



**TECHNICAL MEMORANDUM NO. 3A
FOR
REMEDIAL INVESTIGATION/FEASIBILITY STUDY
CITY DISPOSAL CORPORATION LANDFILL
(DUNN LANDFILL)**

(PELA Reference No. 495207)

Appendix G

**Results of Analyses
Soil and Ground-Water Samples**

Volume 9 of 16

Technical Report

**SAMPLES: CA5568, CA5584, CA5588-CA5593,
CA5597, CA5599, CA5805-CA5806**

April 1991



OHM Corporation

ETC Environmental Testing
and Certification Corp.

Technical Report

for

CITY DISPOSAL CORPORATION LANDFILL

Chain of Custody Data Required for ETC Data Management Summary Reports

CA5568, CA5584, CA5588-CA5593, WASTE MANAGEMENT, INC. 405
CA5597, CA5599, CA5808-CA5806

| <i>ETC Sample No.</i> | <i>Company</i> | <i>Facility</i> | <i>Sample Point</i> | <i>Date</i> | <i>Time</i> | <i>Elapsed Hours</i> |
|-----------------------|----------------|-----------------|---------------------|-------------|-------------|----------------------|
|-----------------------|----------------|-----------------|---------------------|-------------|-------------|----------------------|

Richard P. Albert

Vice President, General Manager

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ETC

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| Semivolatile Data | NA |
| QC Summary Data | NA |
| Sample Data | NA |
| Standard Data | NA |
| Raw QC Data | NA |
| Pesticide/PCB Data | NA |
| QC Summary Data | NA |
| Sample Data | NA |
| Standard Data | NA |
| Raw QC Data | NA |
| Chain of Custody | 322 |

ETC

CASE NARRATIVE

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SDG NARRATIVE

This technical report submitted by ETC Corporation contains the analytical results and required deliverables for WASTE MANAGEMENT, INC. Site 405 samples as identified below:

| <u>ETC ID</u> | <u>CLIENT ID</u> | <u>ETC ID</u> | <u>CLIENT ID</u> |
|---------------|------------------|---------------|------------------|
| CA5568 | 3GWPZ6 | CA5592 | 3GWPZ11S |
| CA5584 | 3GWPZ8 | CA5593 | 3GWFB |
| CA5588 | 3GWPZ11I | CA5597 | 3GWPZ11IDU |
| CA5589 | 3GWPZ5 | CA5599 | 3GWPZ5DUP |
| CA5590 | 3GWFB | CA5805 | 02TB |
| CA5591 | 3GWPZ11D | CA5806 | 02TB |

During the preparation and analysis of these samples, the following was observed:

VOLATILES:

(QV70443): Surrogate recoveries for samples CA5591, CA5599 and CA5805-CA5806 outside of QC control limits may be attributed to the sample matrix which has been confirmed by the results of a replicate analysis.

(QV70445): Surrogate recoveries for samples CA5568, CA5592 and CA5597 outside QC control limits may be attributed to sample matrix interference which was confirmed by the results of the replicate analysis.

Vinyl Chloride and 1,2-Dichloroethylene in sample CA5597 exceeded the calibration range in the original analysis. These compounds were not detected in the dilution analysis due to the level of the required dilution. The spectra from the original analysis has been included in this report.

Release of the data contained in this hardcopy data package has been authorized by the following signature.



Gregory G. Morrison
Laboratory Manager

2-8-91
Date

ETC

METHODOLOGY

INTRODUCTION

Environmental Testing and Certification Corp.
284 Raritan Center Parkway, CN 7808
Edison, New Jersey 08818-7808
(201) 225-6700

This report contains analytical results in tabular form for your sample. It includes comprehensive data for each analytical process. Associated quality control data is also presented, including QC batch results for the laboratory blank, spiked blank, matrix spike and a replicated sample spike, as well as results from surrogate compound analyses. Quality control data for instrument performance is also included. Other appendices may include data system printouts and chain of custody records.

Analytical Methodology

ETC utilizes a wide variety of methodologies and EPA approved procedures which are listed below. Analytical results and Quality Assurance protocols are based upon the appropriate guideline dependent upon the level of deliverable requested.

- "Methods of Organic Chemical Analysis of Municipal and Industrial Wastewater", Federal Register Vol. 49, No. 209, October 26, 1984;
- "Test Methods for Evaluating Solid Waste", SW-846 Third Edition, September 1986, USEPA;
- "Standard Methods for the Examination of Water and Wastewater" 1985, 14th, 15th and 16th Edition;
- "Methods for Chemical Analysis of Water and Wastes" March 1983, EMSL, EPA 600 4-79-020;
- Organic Analysis: Multi-media, Multi-Concentration-IFB-CLP, SOW February 1988;
- Inorganic Analysis: Multi-media, Multi-Concentration IFB-CLP, SOW July 1987;
- Dioxin Analysis: Soil/Sediment/Water Matrix; Multi-Concentration, Selected Ion Monitoring with Jar Extraction Procedure; IFB WA86-K357.
- "Methods for the Determination of Organic Compounds in Drinking Water" December 1988, EPA-600/4-88/039;
- "Handbook for Analytical Quality Control in Water and Wastewater Laboratories", EPA-600/4-79-019, March 1979;
- "National Enforcement Investigation Center Policies and Procedures Manual, EPA-330/9/78/001-R, Revised May 1986.

ETC

ETC Network Laboratories are certified to perform analytical analyses upon samples collected throughout the United States. It may be required that this environmental data be reported with reference to a certified laboratory. The Laboratory Identification Numbers for ETC Corp., Edison NJ Laboratory are summarized below for your information and reference. Please contact your Program Manager should you require certification verification for an ETC Network Laboratory.

Certification Summary, January 1990

| <u>State Agency</u> | <u>Certification Number</u> |
|---|------------------------------------|
| Alabama Department of Environmental Management | 40280 |
| Arizona Department of Environmental Quality | 322 |
| California Department of Health Services | 162 |
| Connecticut Department of Health Services | 0511 |
| Florida Department of Health and Rehabilitative Services | EB7074 & 87262 |
| Illinois Environmental Protection Agency | 100224 |
| Kansas Department of Health and Environment | E-148 & E1122 |
| New Hampshire Department of Environmental Services | 198948-B |
| New Jersey Department of Environmental Protection | 12257 |
| New York Department of Public Health | 10586 |
| Oklahoma Water Resources Board | 8703 |
| Pennsylvania Department of Environmental Regulation | 68-323 |
| South Carolina Department of Health and Environmental Control | 94002 |
| Tennessee Department of Health and Environmental Laboratory Services | 02915 |
| Utah Department of Health | E-91 |
| Virginia Department of General Services | 00113 |
| Wisconsin Department of Natural Resources | 999464070 |

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VOLATILE DATA

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QC SUMMARY

2A
WATER VOLATILE SURROGATE RECOVERY

Lab Name: ETCNJ

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.:

| | EPA SAMPLE NO. | S1 (TOL)* | S2 (BFB)* | S3 (DCE)* | OTHER | TOT OUT |
|----|-------------------|--------------|--------------|--------------|-------|------------|
| 01 | UCLK01 | 100 | 99 | 97 | | 0 |
| 02 | A5563 | 98 | 97 | 98 | | 0 |
| 03 | A5574 | 98 | 99 | 97 | | 0 |
| 04 | A5559 | 99 | 100 | 101 | | 0 |
| 05 | A5580 | 102 | 99 | 97 | | 0 |
| 06 | A5581 | 97 | 97 | 98 | | 0 |
| 07 | A5582 | 96 | 96 | 99 | | 0 |
| 08 | A5603 | 96 | 98 | 100 | | 0 |
| 09 | A5594 | 98 | 99 | 97 | | 0 |
| 10 | A5595 | 107 | 106 | 98 | | 0 |
| 11 | UCLK02 | 107 | 107 | 93 | | 0 |
| 12 | A5805 | 78 * | 78 * | 92 | | 2 |
| 13 | A5599 | 76 * | 76 * | 93 | | 2 |
| 14 | A5806 | 84 * | 84 * | 94 | | 2 |
| 15 | A5591 | 75 * | 75 * | 91 | | 2 |
| 16 | A5805AB | 77 * | 76 * | 90 | | 2 |
| 17 | A5806AB | 78 * | 76 * | 92 | | 2 |
| 18 | A5591AB | 78 * | 78 * | 91 | | 2 |
| 19 | UCLK03 | 98 | 110 | 96 | | 0 |
| 20 | A5599MS | 105 | 117 * | 96 | | 1 |
| 21 | A5599MSD | 128 * | 144 * | 94 | | 2 |
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QC LIMITS

S1 (TOL) = Toluene-d8 (88-110)
 S2 (BFB) = Bromofluorobenzene (86-115)
 S3 (DCE) = 1,2-Dichloroethane-d4 (76-114)

* Column to be used to flag recovery values
 * Values outside QC limits
 D Surrogates diluted out

3A
WATER VOLATILE SURROGATE RECOVERY

Lab Name: ETCNJ

Contract:

Lab Code:

Case No.:

SAS No.:

EDG No.:

| EPA SAMPLE NO. | S1 (TOL)# | S2 (BFB)# | S3 (DCE)# | OTHER | TOT OUT |
|-------------------|--------------|--------------|--------------|-------|------------|
| 01 | 107 | 107 | 93 | | 0 |
| 02 | 107 | 107 | 93 | | 0 |
| 03 | 76 * | 77 * | 38 | | 2 |
| 04 | | | | | |
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S1 (TOL) = Toluene-d8
 S2 (BFB) = Bromofluorobenzene
 S3 (DCE) = 1,2-Dichloroethane-d4

QC LIMITS
 (88-110)
 (86-115)
 (76-114)

Column to be used to flag recovery values
 * Values outside QC limits
 D Surrogates diluted out

3A

WATER VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: ETC Corp. | Laboratory | Contract:
 Lab Code: | Case No.: | SAB No.: | SUB No.:
 Matrix Spike - EPA Sample No.: A5572

| COMPOUND | SPIKE ADDED (ug/L) | SAMPLE CONCENTRATION (ug/L) | MS CONCENTRATION (ug/L) | MS % REC # | QC LIMITS (ug/L) |
|--------------------|--------------------|-----------------------------|-------------------------|------------|------------------|
| 1,1-Dichloroethene | 50.000 | 0.000 | 45.263 | 91 | 161-145 |
| Trichloroethene | 50.000 | 0.000 | 42.617 | 85 | 171-120 |
| Benzene | 50.000 | 8.208 | 47.325 | 78 | 176-127 |
| Toluene | 50.000 | 0.000 | 42.458 | 85 | 176-125 |
| Chlorobenzene | 50.000 | 0.000 | 44.815 | 90 | 175-130 |

| COMPOUND | SPIKE ADDED (ug/L) | MSD CONCENTRATION (ug/L) | MSD % REC # | RPD % RPD # | QC LIMITS (ug/L) | |
|--------------------|--------------------|--------------------------|-------------|-------------|------------------|---------|
| 1,1-Dichloroethene | 50.000 | 42.742 | 85 | 6 | 14 | 161-145 |
| Trichloroethene | 50.000 | 38.810 | 78 | 8 | 14 | 171-120 |
| Benzene | 50.000 | 44.065 | 72 * | 9 | 11 | 176-127 |
| Toluene | 50.000 | 40.039 | 80 | 6 | 13 | 176-125 |
| Chlorobenzene | 50.000 | 41.696 | 83 | 7 | 13 | 175-130 |

* Column to be used to flag recovery and RPD values with an asterisk

* Values outside of limits

RPD: 0 out of 5 outside limits

Spike Recovery: 1 out of 10 outside limits

Comments:

3A
WATER VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: ETCNJ

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.:

Matrix Spike - EPA Sample No.: A5599

| COMPOUND | SPIKE ADDED (ug/L) | SAMPLE CONCENTRATION (ug/L) | MS CONCENTRATION (ug/L) | MS % REC # | QC LIMITS REC. |
|--------------------|--------------------|-----------------------------|-------------------------|------------|----------------|
| 1,1-Dichloroethene | 50.000 | 0.000 | 49.764 | 100 | 61-145 |
| Trichloroethene | 50.000 | 89.067 | 101.272 | 24 * | 71-120 |
| Benzene | 50.000 | 0.000 | 45.558 | 91 | 76-127 |
| Toluene | 50.000 | 0.000 | 56.933 | 114 | 76-125 |
| Chlorobenzene | 50.000 | 0.000 | 9.432 | 19 * | 75-130 |

| COMPOUND | SPIKE ADDED (ug/L) | MSD CONCENTRATION (ug/L) | MSD % REC # | % RPD # | QC LIMITS RPD REC. |
|--------------------|--------------------|--------------------------|-------------|---------|--------------------|
| 1,1-Dichloroethene | 50.000 | 45.417 | 91 | 9 | 14 61-145 |
| Trichloroethene | 50.000 | 99.757 | 21 * | 13 | 14 71-120 |
| Benzene | 50.000 | 45.419 | 91 | 0 | 11 76-127 |
| Toluene | 50.000 | 65.130 | 130 * | 13 | 13 76-125 |
| Chlorobenzene | 50.000 | 49.348 | 99 | 136 * | 13 75-130 |

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of limits

RPD: 1 out of 5 outside limits

Spike Recovery: 4 out of 10 outside limits

Comments:

4A
VOLATILE METHOD BLANK SUMMARY

Lab Name: ETCNJ Contract:
 Lab Code: Case No.: SAS No.: SDG No.:
 Lab File ID: C02186 Lab Sample ID: MBLK02
 Date Analyzed 01/18/91 Time Analyzed: 1237
 Matrix: (soil/water) WATER Level: (low/med) LOW
 Instrument ID: GC/MS C

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

| | EPA SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | TIME ANALYZED |
|----|-------------------|------------------|----------------|------------------|
| 01 | A5805 | CA5805U2 | >C2187 | 1336 |
| 02 | A5599 | CA5599U2 | >C2188 | 1424 |
| 03 | A5806 | CA5806U2 | >C2190 | 1558 |
| 04 | A5591 | CA5591U2 | >C2191 | 1646 |
| 05 | A5805RE | CA5805U2 | >C2192 | 1747 |
| 06 | A5806RE | CA5806U2 | >C2196 | 2058 |
| 07 | A5591RE | CA5591U2 | >C2197 | 2146 |
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Comments: _____

4A
VOLATILE METHOD BLANK SUMMARY

Lab Name: ETCNJ Contract:
 Lab Code: Case No.: GAS No.: SOG No.:
 Lab File ID: 02188 Lab Sample ID: UBLK03⁴
 Date Analyzed 01/18/91 Time Analyzed: 1237
 Matrix: (solid)/water WATER Level: (low/med) LOW
 Instrument ID: GC/MS C

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

| | EPA SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | TIME ANALYZED |
|----|-------------------|------------------|----------------|------------------|
| 01 | 45597RE | CA5597U2 | 02189 | 1511 |
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Comments: _____

4A
VOLATILE METHOD BLANK SUMMARY

Lab Name: ETC Corp. Contract:
 Lab Code: Case No.: SAS No.: SDG No.:
 Lab File ID: >D2621 Lab Sample ID: VALK05
 Date Analyzed 01/15/91 Time Analyzed: 1914
 Matrix: (soil/water) WATER Level:(low/med) LOW
 Instrument ID: GC/MS D

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

| | EPA SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | TIME ANALYZED |
|----|-------------------|------------------|----------------|------------------|
| 01 | A5577 | CA5577U3 | >D2622 | 1609 |
| 02 | A5572 | CA5572U3 | >D2624 | 1749 |
| 03 | A5572MS | CA5572US | >D2625 | 1836 |
| 04 | A5572MSD | CA5572UR | >D2626 | 1922 |
| 05 | A5568RE | CA5568U3 | >D2627 | 2007 |
| 06 | A5588 | CA5588U3 | >D2628 | 2051 |
| 07 | A5592RE | CA5592U3 | >D2629 | 2137 |
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Comments: _____

5A
VOLATILE ORGANIC GC/MS TUNING AND MASS
CALIBRATION - BROMOFLUOROBENZENE (BFB)

Lab Name: ETCNJ Laboratory Contract:
 Lab Code: Case No.: SAS No.: SDG No.:
 Lab File ID: >C2175 BFB Injection Date: 01/17/91
 Instrument ID: GC/MS C BFB Injection Time: 1207
 Matrix: (soil/water) WATER Level: (low/med) LOW Column: (pack/cap) _____

| m/e | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE |
|-----|--|----------------------|
| 50 | 15.0 - 40.0% of mass 95 | 21.1 |
| 75 | 30.0 - 60.0% of mass 95 | 50.4 |
| 95 | Base peak, 100% relative abundance | 100.0 |
| 96 | 5.0 - 9.0% of mass 95 | 8.4 |
| 173 | Less than 2.0% of mass 174 | 0.0 (0.0)1 |
| 174 | Greater than 50.0% of mass 95 | 93.4 |
| 175 | 5.0 - 9.0% of mass 174 | 8.0 (3.6)1 |
| 176 | Greater than 95.0%, but less than 101.0% of mass 174 | 92.4 (98.9)1 |
| 177 | 5.0 - 9.0% of mass 176 | 7.3 (7.9)2 |

1-Value is % mass 174

2-Value is % mass 176

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

| | EPA SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|----|-------------------|------------------|----------------|------------------|------------------|
| 01 | | QC70443US | >C2177 | 01/17/91 | 1327 |
| 02 | | QC70443US | >C2178 | 01/17/91 | 1414 |
| 03 | | QC70443US | >C2179 | 01/17/91 | 1502 |
| 04 | | QC70443US | >C2180 | 01/17/91 | 1550 |
| 05 | | QC70443US | >C2181 | 01/17/91 | 1715 |
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5A
VOLATILE ORGANIC GC/MS TUNING AND MASS
CALIBRATION - BROMOFLUOROBENZENE (BFB)

Lab Name: ETCNJ Laboratory: Contract:
 Lab Code: Case No.: SAS No.: SDG No.:
 Lab File ID: >C2183 BFB Injection Date: 01/18/91
 Instrument ID: GC/MS C BFB Injection Time: 1016
 Matrix: (soil/water) WATER Level: (low/med) LOW Column: (pack/cap) _____

| m/e | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE |
|-----|--|----------------------|
| 50 | 15.0 - 40.0% of mass 95 | 22.4 |
| 75 | 30.0 - 60.0% of mass 95 | 50.7 |
| 95 | Base peak, 100% relative abundance | 100.0 |
| 96 | 5.0 - 9.0% of mass 95 | 8.0 |
| 173 | Less than 2.0% of mass 174 | .4 (.4)1 |
| 174 | Greater than 50.0% of mass 95 | 97.9 |
| 175 | 5.0 - 9.0% of mass 174 | 8.4 (8.5)1 |
| 176 | Greater than 95.0%, but less than 101.0% of mass 174 | 97.6 (99.9)1 |
| 177 | 5.0 - 9.0% of mass 176 | 8.2 (8.4)2 |

1-Value is % mass 174

2-Value is % mass 176

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

| EPA SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|----------------|---------------|-------------|---------------|---------------|
| 01 | QC70443US | >C2184 | 01/18/91 | 1043 |
| 02 | QC70443U2 | >C2186 | 01/18/91 | 1237 |
| 03 | CA5805U2 | >C2187 | 01/18/91 | 1336 |
| 04 | CA5599U2 | >C2188 | 01/18/91 | 1424 |
| 05 | CA5806U2 | >C2190 | 01/18/91 | 1558 |
| 06 | CA5591U2 | >C2191 | 01/18/91 | 1646 |
| 07 | CA5805U2 | >C2192 | 01/18/91 | 1747 |
| 08 | CA5599US | >C2193 | 01/18/91 | 1839 |
| 09 | CA5599UR | >C2194 | 01/18/91 | 1922 |
| 10 | CA5597U2 | >C2195 | 01/18/91 | 2010 |
| 11 | CA5806U2 | >C2196 | 01/18/91 | 2058 |
| 12 | CA5591U2 | >C2197 | 01/18/91 | 2146 |
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5A
VOLATILE ORGANIC GC/MS TUNING AND MASS
CALIBRATION - BROMOFLUOROBENZENE (BFB)

Lab Name: ETCNJ 1 Laboratory Contract:
 Lab Code: Case No.: SAS No.: SDG No.:
 Lab File ID: >C2183 BFB Injection Date: 01/18/91
 Instrument ID: GC/MS C BFB Injection Time: 1016
 Matrix: (soil/water) WATER Level: (low/med) LOW Column: (back/cap) _____

| m/e | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE |
|-----|--|----------------------|
| 50 | 15.0 - 40.0% of mass 95 | 22.4 |
| 75 | 30.0 - 60.0% of mass 95 | 50.7 |
| 95 | Base peak, 100% relative abundance | 100.0 |
| 96 | 5.0 - 9.0% of mass 95 | 8.0 |
| 173 | Less than 2.0% of mass 174 | .4 (.4)1 |
| 174 | Greater than 50.0% of mass 95 | 97.9 |
| 175 | 5.0 - 9.0% of mass 174 | 8.4 (8.5)1 |
| 176 | Greater than 95.0%, but less than 101.0% of mass 174 | 97.6 (99.8)1 |
| 177 | 5.0 - 9.0% of mass 176 | 8.2 (8.4)2 |

1-Value is % mass 174

2-Value is % mass 176

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

| | EPA SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|----|----------------|---------------|-------------|---------------|---------------|
| 01 | | QC70443US | >C2184 | 01/18/91 | 1043 |
| 02 | | QC70443U2 | >C2186 | 01/18/91 | 1237 |
| 03 | | CA5597U2AB | >C2189 | 01/18/91 | 1511 |
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5A
VOLATILE ORGANIC GC/MS TUNING AND MASS
CALIBRATION - BROMOFLUOROBENZENE (BFB)

Lab Name: ETCNJ Laboratory Contract:
 Lab Code: Case No.: SAS No.: SDG No.:
 Lab File ID: >C2198 BFB Injection Date: 01/19/91
 Instrument ID: GC/MS C BFB Injection Time: 1358
 Matrix: (soil/water) WATER Level: (low/med) LOW Column: (pack cap) _____

| m/e | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE |
|-----|--|----------------------|
| 50 | 15.0 - 40.0% of mass 95 | 25.2 |
| 75 | 30.0 - 60.0% of mass 95 | 45.7 |
| 95 | Base peak, 100% relative abundance | 100.0 |
| 96 | 5.0 - 9.0% of mass 95 | 6.3 |
| 173 | Less than 2.0% of mass 174 | 0.0 (0.0)1 |
| 174 | Greater than 50.0% of mass 95 | 95.1 |
| 175 | 5.0 - 9.0% of mass 174 | 8.3 (8.3)1 |
| 176 | Greater than 95.0%, but less than 101.0% of mass 174 | 94.9 (99.8)1 |
| 177 | 5.0 - 9.0% of mass 176 | 8.3 (8.7)2 |

1-Value is % mass 174

2-Value is % mass 176

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

| | EPA SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|----|----------------|---------------|-------------|---------------|---------------|
| 01 | | QC70443US | >C2199 | 01/19/91 | 1434 |
| 02 | | QC70443U3 | >C2211 | 01/19/91 | 1626 |
| 03 | | CA5599US | >C2215 | 01/19/91 | 2024 |
| 04 | | CA5599UR | >C2216 | 01/19/91 | 2112 |
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5A
VOLATILE ORGANIC GC/MS TUNING AND MASS
CALIBRATION - BROMOFLUOROBENZENE (BFB)

Lab Name: ETC Corp. Contract: _____
 Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: _____
 Lab File ID: >D2520 BFB Injection Date: 01/08/91
 Instrument ID: GC/MS_0 BFB Injection Time: 1622
 Matrix: (soil/water) WATER Level: (low/med) LOW Column: (pack)cap _____

| m/e | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE |
|-----|--|----------------------|
| 50 | 15.0 - 40.0% of mass 95 | 26.2 |
| 75 | 30.0 - 60.0% of mass 95 | 54.4 |
| 95 | Base peak, 100% relative abundance | 100.0 |
| 96 | 5.0 - 9.0% of mass 95 | 6.1 |
| 173 | Less than 2.0% of mass 174 | 0.0 (0.0)1 |
| 174 | Greater than 50.0% of mass 95 | 78.8 |
| 175 | 5.0 - 9.0% of mass 174 | 6.6 (8.4)1 |
| 176 | Greater than 95.0%, but less than 101.0% of mass 174 | 76.1 (96.6)1 |
| 177 | 5.0 - 9.0% of mass 176 | 5.0 (6.6)2 |

1-Value is % mass 174

2-Value is % mass 176

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

| EPA SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|----------------|---------------|-------------|---------------|---------------|
| 01 | QC70441US | >D2521 | 01/08/91 | 1643 |
| 02 | QC70441US | >D2522 | 01/08/91 | 1728 |
| 03 | QC70441US | >D2523 | 01/08/91 | 1811 |
| 04 | QC70441US | >D2524 | 01/08/91 | 1855 |
| 05 | QC70441US | >D2525 | 01/08/91 | 1939 |
| 06 | | | | |
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5A
VOLATILE ORGANIC GC/MS TUNING AND MASS
CALIBRATION - BROMOFLUORUBENZENE (BFB)

Lab Name: ETC Corp. Contract: _____
 Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: _____
 Lab File ID: >D2578 BFB Injection Date: 01/13/91
 Instrument ID: GC/MS_D_____ BFB Injection Time: 1145
 Matrix: (soil/water) WATER Level: (low/med) LOW Column: pack X cap _____

| m/e | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE |
|-----|--|----------------------|
| 50 | 15.0 - 40.0% of mass 95 | 24.7 |
| 75 | 30.0 - 60.0% of mass 95 | 52.0 |
| 95 | Base peak, 100% relative abundance | 100.0 |
| 96 | 5.0 - 9.0% of mass 95 | 8.7 |
| 173 | Less than 2.0% of mass 174 | 0.0 (0.0)1 |
| 174 | Greater than 50.0% of mass 95 | 77.3 |
| 175 | 5.0 - 9.0% of mass 174 | 6.0 (7.8)1 |
| 176 | Greater than 95.0%, but less than 101.0% of mass 174 | 73.7 (95.4)1 |
| 177 | 5.0 - 9.0% of mass 176 | 6.5 (8.8)2 |

1-Value is % mass 174

2-Value is % mass 176

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

| | EPA SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|----|----------------|---------------|-------------|---------------|---------------|
| 01 | | QC70445US | >D2587 | 01/13/91 | 1757 |
| 02 | | | | | |
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5A
VOLATILE ORGANIC GC/MS TUNING AND MASS
CALIBRATION - BROMOFLUORUBENZENE (BFB)

Lab Name: ETC Corp. Contract: _____
 Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: _____
 Lab File ID: >D2588 BFB Injection Date: 01/13/91
 Instrument ID: GC/MS_D_____ BFB Injection Time: 1849
 Matrix: (soil/water) WATER Level: (low/med) LOW Column: (pack) cap _____

| m/e | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE |
|-----|--|----------------------|
| 50 | 15.0 - 40.0% of mass 95 | 28.3 |
| 75 | 30.0 - 60.0% of mass 95 | 56.7 |
| 95 | Base peak, 100% relative abundance | 100.0 |
| 96 | 5.0 - 9.0% of mass 95 | 8.2 |
| 173 | Less than 2.0% of mass 174 | 0.0 (0.0)1 |
| 174 | Greater than 50.0% of mass 95 | 84.0 |
| 175 | 5.0 - 9.0% of mass 174 | 6.2 (7.4)1 |
| 176 | Greater than 95.0%, but less than 101.0% of mass 174 | 82.1 (97.8)1 |
| 177 | 5.0 - 9.0% of mass 176 | 6.6 (8.0)2 |

1-Value is % mass 174

2-Value is % mass 176

THIS TUNE APPLIES TO THE FOLLOWING SAMPLES, MS, MSU, BLANKS, AND STANDARDS:

| | EPA SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|----|----------------|---------------|-------------|---------------|---------------|
| 01 | | QC70445U | >D2590 | 01/13/91 | 1956 |
| 02 | | CA5577U | >D2591 | 01/13/91 | 2042 |
| 03 | | CA5585U | >D2593 | 01/13/91 | 2216 |
| 04 | | CA5586U | >D2594 | 01/13/91 | 2303 |
| 05 | | CA5587U | >D2595 | 01/13/91 | 2349 |
| 06 | | CA5596U | >D2596 | 01/14/91 | 0037 |
| 07 | | CA5571U | >D2597 | 01/14/91 | 0123 |
| 08 | | CA5579U | >D2598 | 01/14/91 | 0210 |
| 09 | | CA5583U | >D2599 | 01/14/91 | 0257 |
| 10 | | CA5584U | >D2600 | 01/14/91 | 0344 |
| 11 | | CA5589U | >D2601 | 01/14/91 | 0431 |
| 12 | | CA5593U | >D2602 | 01/14/91 | 0517 |
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5A
VOLATILE ORGANIC GC/MS TUNING AND MASS
CALIBRATION - BROMOFLUOROBENZENE (BFB)

Lab Name: ETC Corp. Contract: _____
 Lab Code: _____ Case No.: _____ SAS No.: _____ SOG No.: _____
 Lab File ID: >D2603 BFB Injection Date: 01/14/91
 Instrument ID: GC/MS_0____ BFB Injection Time: 09:58
 Matrix: (soil/water) WATER Level: (low/med) LOW Column: (pack/cap) _____

| m/e | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE |
|-----|--|----------------------|
| 50 | 15.0 - 40.0% of mass 95 | 23.0 |
| 75 | 30.0 - 60.0% of mass 95 | 50.3 |
| 95 | Base peak, 100% relative abundance | 100.0 |
| 96 | 5.0 - 9.0% of mass 95 | 8.6 |
| 173 | Less than 2.0% of mass 174 | 0.0 (0.0)1 |
| 174 | Greater than 50.0% of mass 95 | 84.8 |
| 175 | 5.0 - 9.0% of mass 174 | 7.4 (8.7)1 |
| 176 | Greater than 95.0%, but less than 101.0% of mass 174 | 83.1 (98.0)1 |
| 177 | 5.0 - 9.0% of mass 176 | 6.8 (8.2)2 |

1-Value is % mass 174

2-Value is % mass 176

THIS TUNE APPLIES TO THE FOLLOWING SAMPLES, MS, MSU, BLANKS, AND STANDARDS:

| EPA SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|----------------|---------------|-------------|---------------|---------------|
| 01 | QC70445US | >D2604 | 01/14/91 | 1021 |
| 02 | QC70445U2 | >D2606 | 01/14/91 | 1207 |
| 03 | CA5578U2 | >D2610 | 01/14/91 | 1526 |
| 04 | CA5579U2 | >D2612 | 01/14/91 | 1655 |
| 05 | CA5593U2 | >D2613 | 01/14/91 | 1740 |
| 06 | CA5590U2 | >D2614 | 01/14/91 | 1826 |
| 07 | CA5568U2 | >D2615 | 01/14/91 | 1911 |
| 08 | CA5592U2 | >D2616 | 01/14/91 | 1956 |
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5A
VOLATILE ORGANIC GC/MS TUNING AND MASS
CALIBRATION - BROMOFLUORUBENZENE (BFB)

Lab Name: ETC Corp. Contract: _____
 Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: _____
 Lab File ID: >D2619 BFB Injection Date: 01/15/91
 Instrument ID: GC/MS_D_____ BFB Injection Time: 1402
 Matrix: (soil/water) WATER Level: (low/med) LOW Column: (pack/cap) _____

| m/e | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE |
|-----|--|----------------------|
| 50 | 15.0 - 40.0% of mass 95 | 23.1 |
| 75 | 30.0 - 60.0% of mass 95 | 44.6 |
| 95 | Base peak, 100% relative abundance | 100.0 |
| 96 | 5.0 - 9.0% of mass 95 | 5.7 |
| 173 | Less than 2.0% of mass 174 | 0.0 (0.0)1 |
| 174 | Greater than 50.0% of mass 95 | 75.0 |
| 175 | 5.0 - 9.0% of mass 174 | 6.7 (8.9)1 |
| 176 | Greater than 95.0%, but less than 101.0% of mass 174 | 73.8 (98.4)1 |
| 177 | 5.0 - 9.0% of mass 176 | 5.4 (7.4)2 |

1-Value is % mass 174

2-Value is % mass 176

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

| | EPA SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|----|----------------|---------------|-------------|---------------|---------------|
| 01 | | QC70445US | >D2620 | 01/15/91 | 1423 |
| 02 | | QC70445U3 | >D2621 | 01/15/91 | 1514 |
| 03 | | CA5577U3 | >D2622 | 01/15/91 | 1609 |
| 04 | | CA5572U3 | >D2624 | 01/15/91 | 1749 |
| 05 | | CA5572US | >D2625 | 01/15/91 | 1836 |
| 06 | | CA5572UR | >D2626 | 01/15/91 | 1922 |
| 07 | | CA5568U3RB | >D2627 | 01/15/91 | 2007 |
| 08 | | CA5588U3 | >D2628 | 01/15/91 | 2051 |
| 09 | | CA5592U3RB | >D2629 | 01/15/91 | 2137 |
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27

ETC

SAMPLE DATA

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

1A5568

Lab Name: ETC Corp.

Contract:

Lab Code:

Case No.:

SAS No.:

SUB No.:

Matrix: (soil/water) WATER

Lab Sample ID: CA556802

Sample wt/vol: .3 (g/mL) ML

Lab File ID: >02615

Level: (low/med) LOW

Date Received: 1/7/91

% Moisture: not dec.

Date Analyzed: 01/14/91

Column: (pack/cap) PACK

Dilution Factor: 20

CONCENTRATION UNITS:
(ug/L or ug/kg) UG/L

| CAS NO. | COMPOUND | UG/L | U |
|------------|----------------------------|--------|----|
| 74-87-3 | Chloromethane | 1200 | 10 |
| 74-83-9 | Bromomethane | 1200 | 10 |
| 75-01-4 | Vinyl Chloride | 1200 | 10 |
| 75-00-3 | Chloroethane | 1200 | 10 |
| 75-09-2 | Methylene Chloride | 1310 | 1 |
| 67-64-1 | Acetone | 17200 | 1E |
| 75-15-0 | Carbon Disulfide | 1100 | 10 |
| 75-35-4 | 1,1-Dichloroethene | 1100 | 10 |
| 75-34-3 | 1,1-Dichloroethane | 1100 | 10 |
| 540-59-0 | 1,2-Dichloroethene (total) | 1440 | 1 |
| 67-66-3 | Chloroform | 1100 | 10 |
| 107-06-2 | 1,2-Dichloroethane | 1100 | 10 |
| 78-93-3 | 2-Butanone | 114000 | 1E |
| 71-55-6 | 1,1,1-Trichloroethane | 1100 | 10 |
| 56-23-5 | Carbon Tetrachloride | 1100 | 10 |
| 108-05-4 | Vinyl Acetate | 1200 | 10 |
| 75-27-4 | Bromodichloromethane | 1100 | 10 |
| 78-87-5 | 1,2-Dichloropropane | 1100 | 10 |
| 10061-01-5 | cis-1,3-Dichloropropene | 1100 | 10 |
| 79-01-6 | Trichloroethene | 1100 | 10 |
| 124-48-1 | Dibromochloromethane | 1100 | 10 |
| 79-00-5 | 1,1,2-Trichloroethane | 1100 | 10 |
| 71-43-2 | Benzene | 1100 | 10 |
| 10061-02-6 | trans-1,3-Dichloropropene | 1100 | 10 |
| 75-25-2 | Bromoform | 1100 | 10 |
| 108-10-1 | 4-Methyl-2-Pentanone | 1230 | 1 |
| 591-78-6 | 2-Hexanone | 1200 | 10 |
| 127-18-4 | Tetrachloroethene | 1100 | 10 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 1100 | 10 |
| 108-88-3 | Toluene | 11700 | 1E |
| 108-90-7 | Chlorobenzene | 1100 | 10 |
| 100-41-4 | Ethylbenzene | 1100 | 10 |
| 100-42-5 | Styrene | 1100 | 10 |
| 1330-20-7 | Xylene (total) | 1100 | 10 |

27 ^{6/21/91}

1E
 VOLATILE ORGANICS ANALYSIS DATA SHEET
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

1A5568

Lab Name: ETC Corp. | Laboratory Contract:

Lab Code: Case No.: SAS No.: SDG No.:

Matrix: (soil/water) WATER Lab Sample ID: CA996802

Sample wt/vol: .3 (g/mL) ML Lab File ID: >U2619

Level: (low/med) LDW Date Received: 1/7/91

% Moisture: not dec. Date Analyzed: 01/14/91

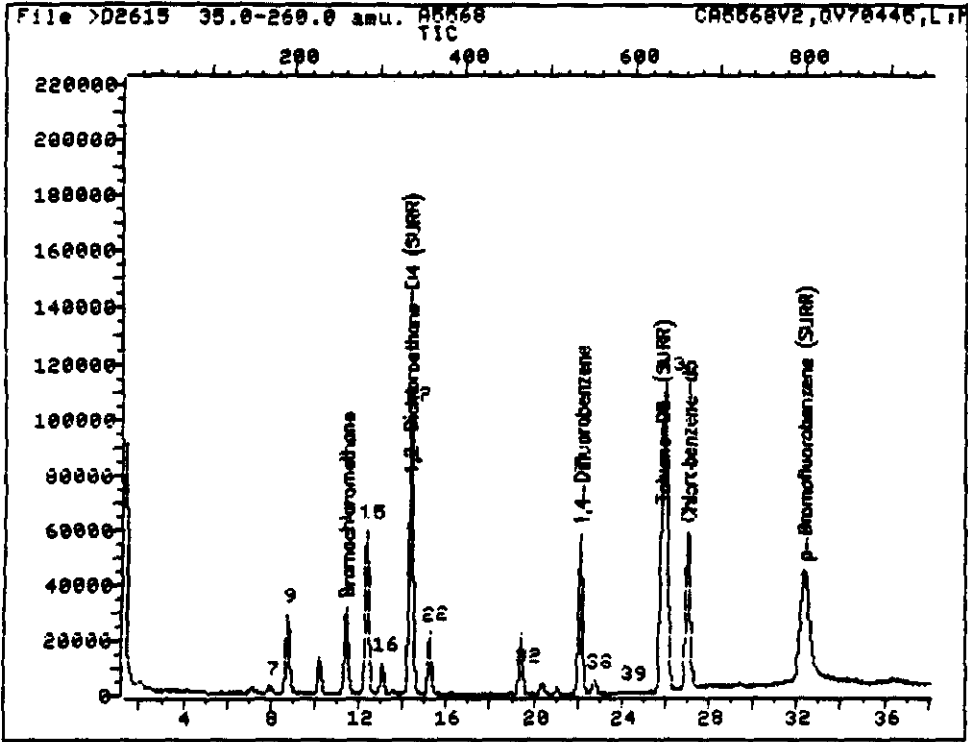
Column: (pack/cap) PACK Dilution Factor: 20.0

Number TICs found: 4

CONCENTRATION UNITS:
 (ug/L or ug/Kg) UG/L

| CAS NUMBER | COMPOUND NAME | RI | EST. CONC | Q |
|--------------|---------------|-------|-----------|----|
| 01. 107-87-9 | 12-Pentanone | 19.40 | 390 | 10 |
| 02. 78-92-2 | 12-Butanol | 15.21 | 690 | 10 |
| 03. 67-63-0 | 12-Propanol | 10.21 | 370 | 10 |
| 04. | Unknown | 20.41 | 69 | 10 |
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TOTAL ION CHROMATOGRAM



Data File: >D2615::U1

Quant Output File: ^D2615::AQ

Name: A5568

Misc: CA5568V2,QU70445,L:M4,.25,,

Id File: ID0310::SS

Title: PP/VDA, IFB, XVDA13, XVDA9

Last Calibration: 910114 11:09

Operator ID: KB6656

Quant Time: 910114 19:50

Injected at: 910114 19:11

QUANT REPORT

Operator ID: KB6656
 Output File: ^D2615::AQ
 Data File: >D2615::U1
 Name: A5568
 Misc: CA5568V2,QU70445,L:M4,.25,,

Quant Rev: 7 Quant Time: 910114 19:50
 Injected at: 910114 19:11
 Dilution Factor: 1.00000

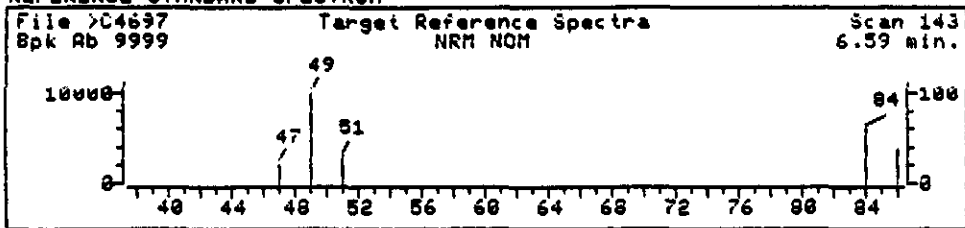
ID File: ID0310::SS
 Title: PP/VOA, IFB, XVOA13, XVOA9
 Last Calibration: 910114 11:09

| | Compound | R.T. | Scan# | Area | Conc | Units | q |
|-----|------------------------------|-------|-------|--------|------------------|---------------|-----|
| 1) | *Bromochloromethane | 11.41 | 261 | 49381 | 250.00 | NG | 93 |
| 7) | Methylene chloride | 7.96 | 172 | 7097 | 77.79 | NG | 94 |
| 9) | Acetone | 8.74 | 192 | 234855 | 1790.18 | NG | 93 |
| 15) | Tetrahydrofuran | 12.34 | 285 | 210912 | 5323.48 | NG | 100 |
| 16) | 1,2-Trans-dichloroethylene | 13.04 | 303 | 25701 | 110.83 | NG | 98 |
| 18) | 1,2-Dichloroethane-D4 (SURR) | 14.32 | 336 | 146773 | 318.77 | NG | 96 |
| 21) | *1,4-Difluorobenzene | 22.11 | 537 | 256192 | 250.00 | NG | 98 |
| 22) | Methyl ethyl ketone | 14.40 | 338 | 117736 | 3472.57 | NG | 98 |
| 22) | Methyl ethyl ketone | 15.25 | 360 | 2610 | 26.98 | NG | 77 |
| 32) | Benzene | 19.51 | 470 | 4476 | 4.86 | NG | 81 |
| 37) | *Chlorobenzene-d5 | 27.01 | 663 | 226035 | 250.00 | NG | 79 |
| 38) | Methyl-iso-butyl ketone | 22.77 | 554 | 18827 | 56.77 | NG | 87 |
| 39) | 2-Hexanone | 24.32 | 594 | 4783 | 12.61 | NG | 82 |
| 42) | Toluene-D8 (SURR) | 25.80 | 632 | 267423 | 239.64 | NG | 91 |
| 43) | Toluene | 26.00 | 637 | 271506 | 431.52 | NG | 97 |
| 46) | p-Bromofluorobenzene (SURR) | 32.32 | 800 | 174099 | 248.49 | NG | 85 |

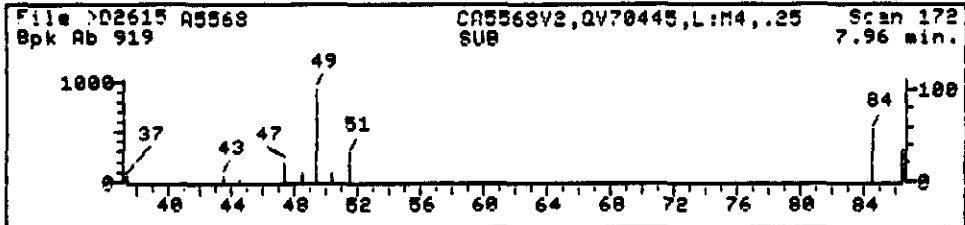
* Compound is ISTD

AP 1/22/11

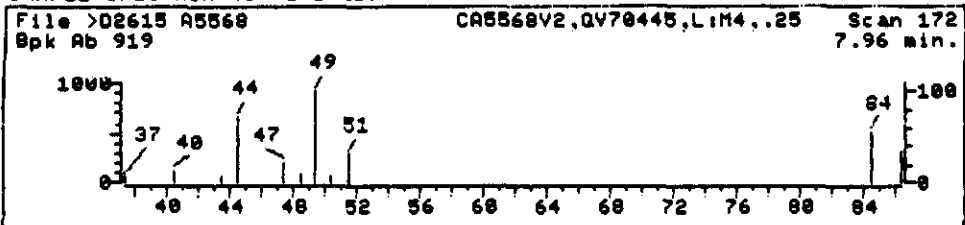
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



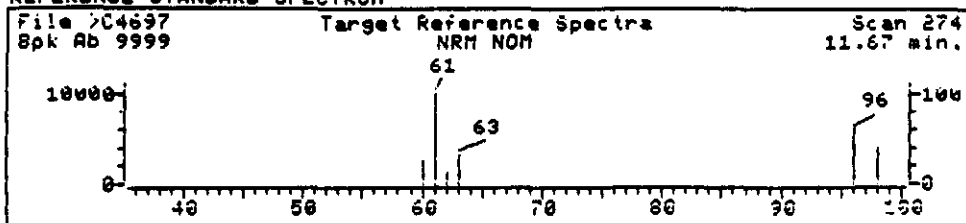
SAMPLE SPECTRUM (UNALTERED)



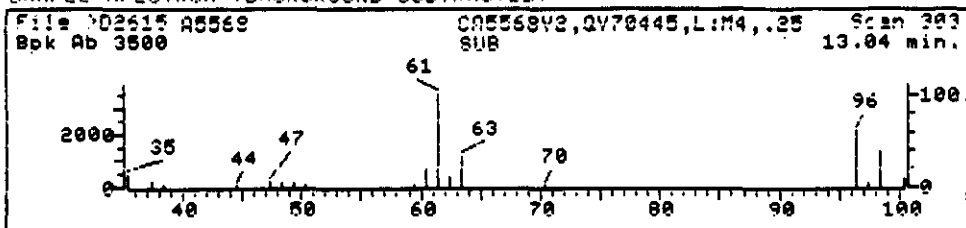
Data File: >D2615::U1 Quant Output File: ^D2615::AQ
 Name: A5568
 Misc: CA5568V2,QV70445,L:M4,.25,,
 Quant Time: 910114 19:50 Quant ID File: ID0310::SS
 Injected at: 910114 19:11 Last Calibration: 910114 11:09

Compound No: 7
 Compound Name: Methylene chloride
 Scan Number: 172
 Retention Time: 7.96 min.
 Quant Ion: 84.0
 Area: 7097
 Concentration: 77.79 NG
 q-value: 94

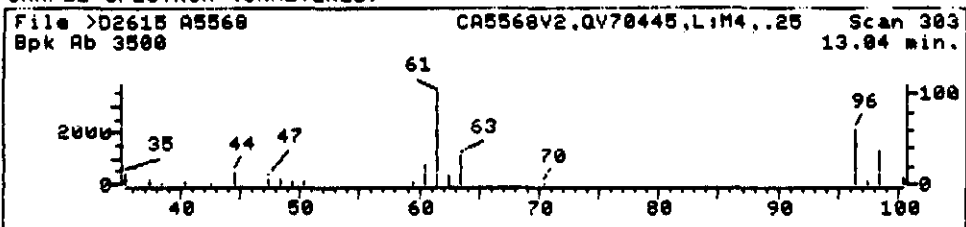
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



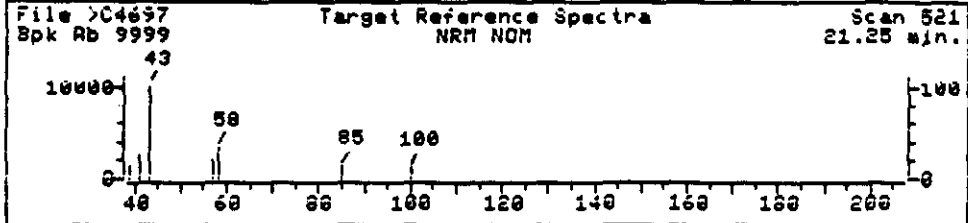
SAMPLE SPECTRUM (UNALTERED)



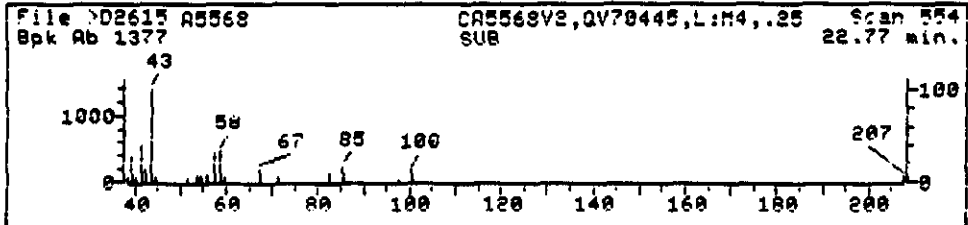
Data File: >D2615::U1 Quant Output File: ^D2615::AQ
 Name: A5568
 Misc: CA5568V2,QV70445,L:M4,.25,,
 Quant Time: 910114 19:50 Quant ID File: 1D0310::55
 Injected at: 910114 19:11 Last Calibration: 910114 11:09

Compound No: 16
 Compound Name: 1,2-Trans-dichloroethylene
 Scan Number: 303
 Retention Time: 13.04 min.
 Quant Ion: 96.0
 Area: 25701
 Concentration: 110.83 NG
 q-value: 98

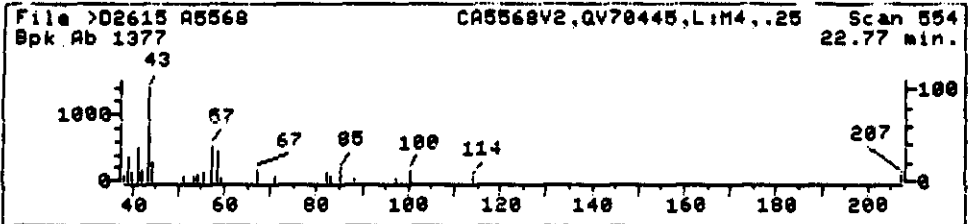
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)

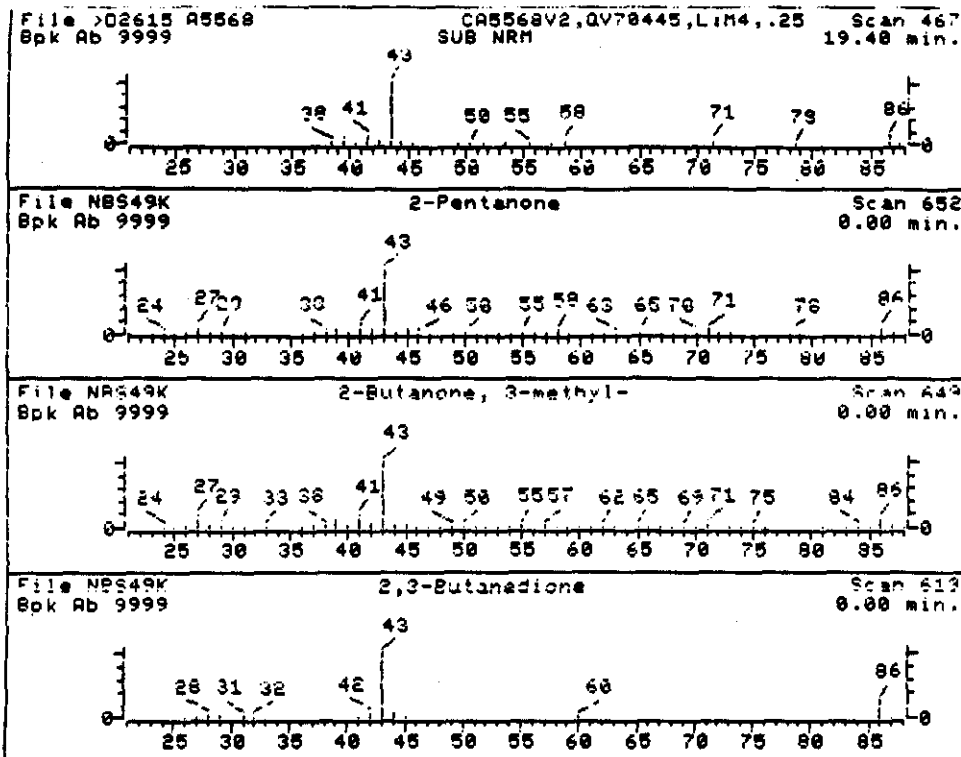


SAMPLE SPECTRUM (UNALTERED)



Data File: >D2615::U1 Quant Output File: ^D2615::AQ
Name: A5568
Misc: CA5568V2,QV70445,L:M4,.25,,
Quant Time: 910114 19:50 Quant ID File: 100310::SS
Injected at: 910114 19:11 Last Calibration: 910114 11:09

Compound No: 38
Compound Name: Methyl-iso-butyl ketone
Scan Number: 554
Retention Time: 22.77 min.
Quant Ion: 43.0
Area: 18827
Concentration: 56.77 NG
q-value: 87

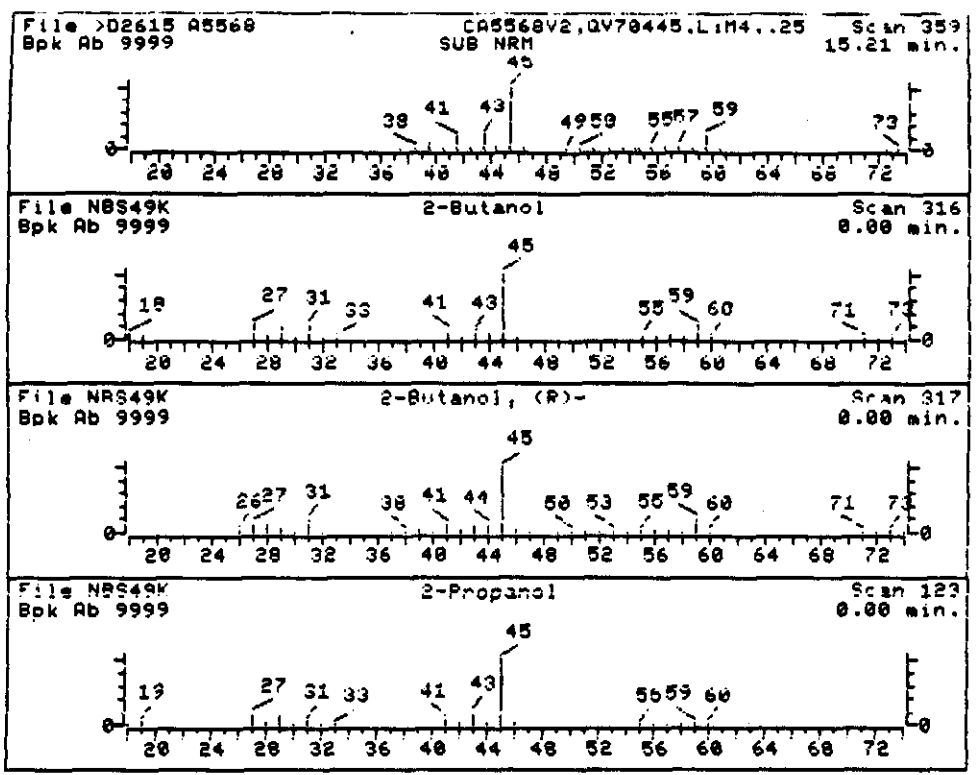


Data File: >D2615::U1
 Name: A5568
 Misc Data: CA5568U2,QV70445,L:M4,.25,,
 RT (min): 19.40
 Scan: 467
 Area: 262985 Rank: 6
 Semi-quantitative Conc (uncorrected): 96.35 NG
 Semi-quantitative Conc (corrected): 385.41 ug/l
 Calculated using Istd: 1,4-Difluorobenzene @ 22.11 minutes

- | | |
|--------------------------|-----------|
| 1. 2-Pentanone | 86 C5H10U |
| 2. 2-Butanone, 3-methyl- | 86 C5H10U |
| 3. 2,3-Butanedione | 86 C4H6O2 |

Sample file: >D2615 Spectrum #: 467
 Search speed: 2 Tilting option: S No. of ion ranges searched: 4

| Prob. | CAS # | CON # | RUUT | K | DK | #FLG | TILT | % | CUN | C_I | R_IU |
|-------|-------|--------|------|--------|----|------|------|---|-----|-----|------|
| 1. | 70* | 107879 | 6962 | NBS49K | 30 | 44 | 2 | 0 | 100 | 8 | 42 |
| 2. | 60* | 563804 | 6960 | NBS49K | 33 | 40 | 1 | 0 | 75 | 15 | 30 |
| 3. | 20* | 431058 | 6938 | NBS49K | 24 | 30 | 1 | 0 | 51 | 54 | 5 |

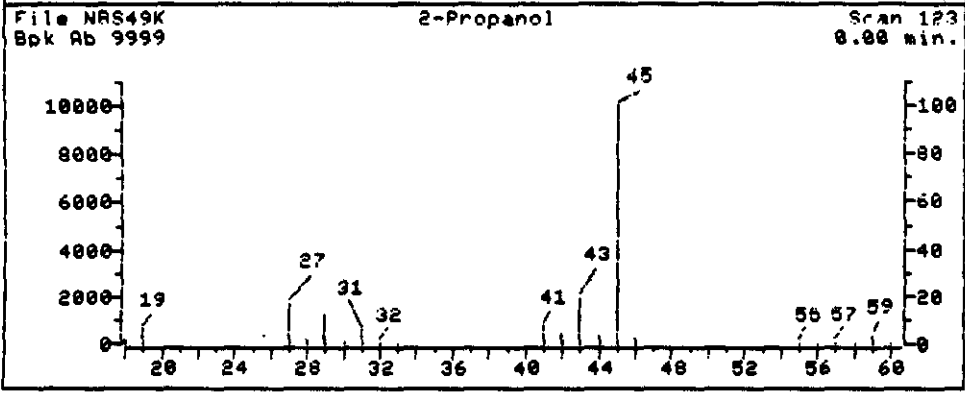
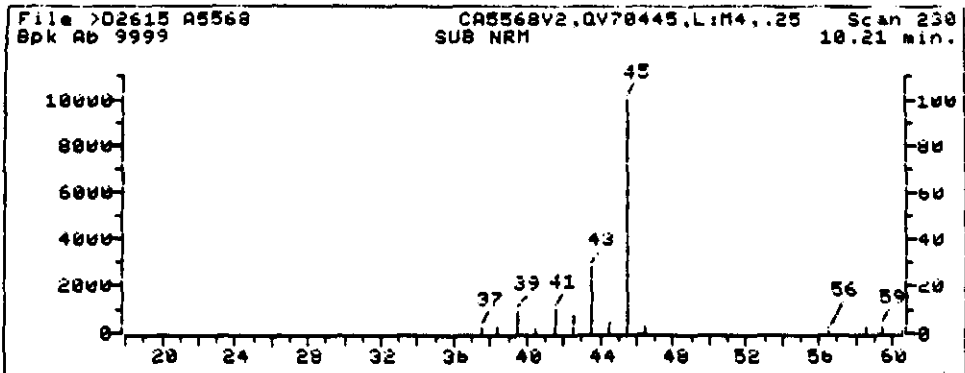


Data File: >D2615::U1
 Name: A5568
 Misc Data: CA5568V2,QU70445,L:M4,.25,,
 RT (min): 15.21
 Scan: 359
 Area: 255107 Rank: /
 Semi-quantitative Conc (uncorrected): 171.92 NG
 Semi-quantitative Conc (corrected): 687.67 ug/l
 Calculated using Istd: Bromochloromethane @ 11.41 minutes

- | | |
|--------------------|-----------|
| 1. 2-Butanol | 74 C4H10O |
| 2. 2-Butanol, (R)- | 74 C4H10O |
| 3. 2-Propanol | 60 C3H8O |

Sample file: >D2615 Spectrum #: 359
 Search speed: 2 Tilting option: S No. of ion ranges searched: 40

| | Prob. | CAS # | CON # | RUUT | K | DK | #PLG | TILT | % | CON | C_I | R_IU |
|----|-------|----------|-------|--------|----|----|------|------|-----|-----|-----|------|
| 1. | 76 | 78922 | 1715 | NBS49K | 45 | 38 | 0 | 0 | 76 | 10 | 45 | 06 |
| 2. | 60 | 14898794 | 1716 | NBS49K | 32 | 48 | U | U | 80 | 14 | 30 | 17 |
| 3. | 39* | 67630 | 331 | NBS49K | 23 | 44 | 0 | 0 | 100 | 30 | 14 | 16 |

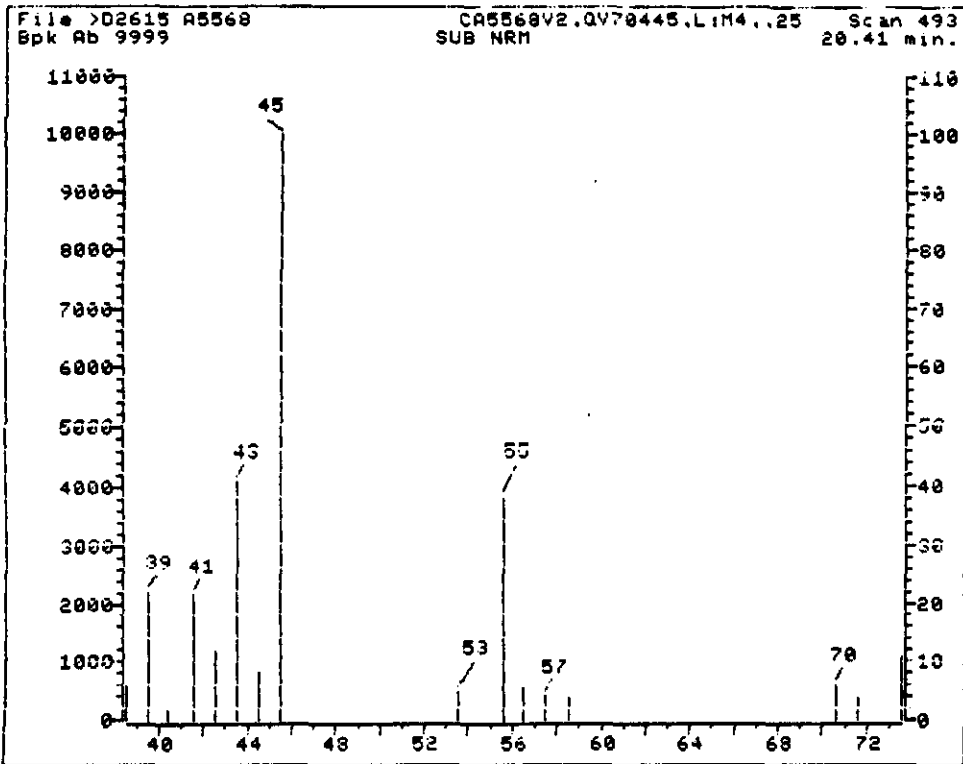


Data File: >D2615::U1
 Name: A5568
 Misc Data: CA5568U2,QV70445,L:M4,.25,,
 RT (min): 10.21
 Scan: 230
 Area: 138484 Rank: 8
 Semi-quantitative Conc (uncorrected): 95.32 NG
 Semi-quantitative Conc (corrected): 373.30 ug/l
 Calculated using Istd: Bromochloromethane @ 11.41 minutes

1. 2-Propanol 60 L3HBU

Sample file: >D2615 Spectrum #: 230
 Search speed: 2 Tilting option: S No. of ion ranges searched: 40

| Prob. | CAS # | CON # | RUOT | K | DK | #PLG | TILT | % | CUN | C_I | R_IV | |
|-------|-------|-------|------|--------|----|------|------|---|-----|-----|------|----|
| 1. | 79* | 67630 | 531 | NBS49K | 56 | 31 | 0 | 0 | 89 | 9 | 48 | 5- |



Data File: >D2615::U1
 Name: A5568
 Misc Data: CA5568V2,QV70445,L:IM4,.25,,
 RT (min): 20.41
 Scan: 493
 Area: 47018 Rank: 11
 Semi-quantitative Conc (uncorrected): 17.23 NG
 Semi-quantitative Conc (corrected): 68.91 ug/l
 Calculated using Istd: 1,4-Difluorobenzene @ 22.11 minutes

No PBM hits for this scan.

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

1A9968REDL

Lab Name: ETC Corp.

Contract:

Lab Code:

Case No.:

SAS No.:

SUG No.:

CP
1-29-91

Matrix: (soil/water) WATER

Lab Sample ID: CA99680:REDL

Sample wt/vol: .05 (g/mL) ML

Lab File ID: >02627

Level: (low/med) LOW

Date Received: 1/8/91

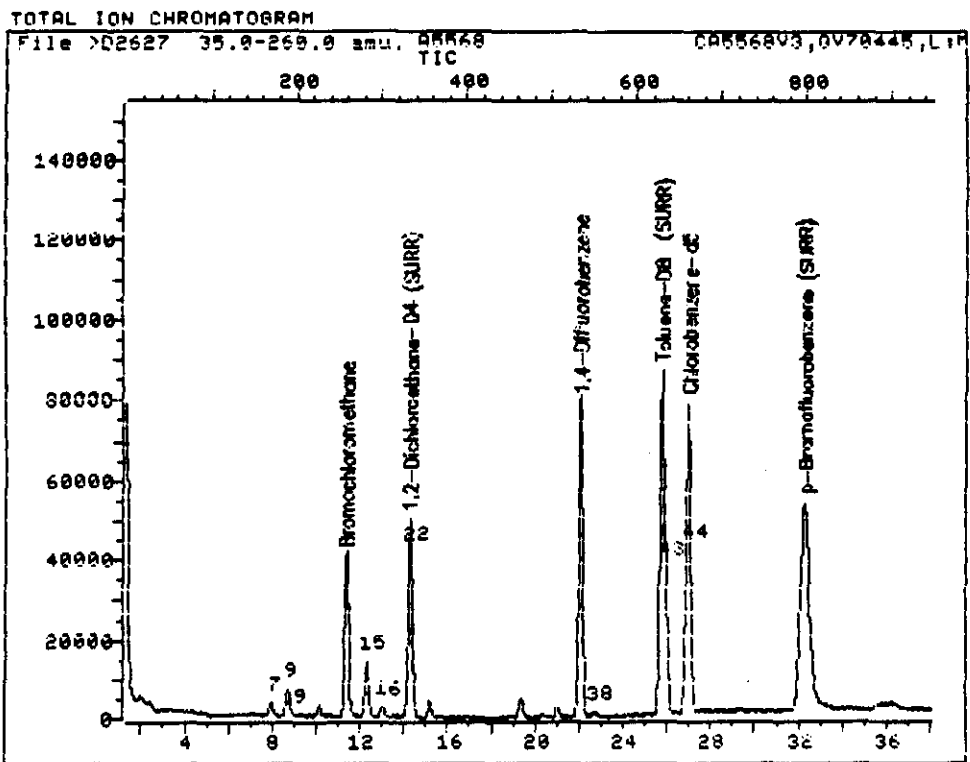
% Moisture: not dec.

Date Analyzed: 01/15/91

Column: (pack/cap) PAKK

Dilution Factor: 100

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) | UG/L | L |
|------------|----------------------------|---|------|---|
| 74-87-3 | Chloromethane | 11000 | 10 | D |
| 74-83-9 | Bromomethane | 11000 | 10 | |
| 75-01-4 | Vinyl Chloride | 11000 | 10 | |
| 75-00-3 | Chloroethane | 11000 | 10 | |
| 75-09-2 | Methylene Chloride | 11400 | 1 | |
| 67-64-1 | Acetone | 16200 | 1 | |
| 75-15-0 | Carbon Disulfide | 1500 | 10 | |
| 75-35-4 | 1,1-Dichloroethene | 1500 | 10 | |
| 75-34-3 | 1,1-Dichloroethane | 1500 | 10 | |
| 540-59-0 | 1,2-Dichloroethene (total) | 1410 | 10 | |
| 67-66-3 | Chloroform | 1500 | 10 | |
| 107-06-2 | 1,2-Dichloroethane | 1500 | 10 | |
| 78-93-3 | 2-Butanone | 19600 | 1 | |
| 71-55-6 | 1,1,1-Trichloroethane | 1500 | 10 | |
| 56-23-5 | Carbon Tetrachloride | 1500 | 10 | |
| 108-05-4 | Vinyl Acetate | 11000 | 10 | |
| 75-27-4 | Bromodichloromethane | 1500 | 10 | |
| 78-87-5 | 1,2-Dichloropropane | 1500 | 10 | |
| 10061-01-5 | cis-1,3-Dichloropropene | 1500 | 10 | |
| 79-01-6 | Trichloroethene | 1500 | 10 | |
| 124-48-1 | Dibromochloromethane | 1500 | 10 | |
| 79-00-5 | 1,1,2-Trichloroethane | 1500 | 10 | |
| 71-43-2 | Benzene | 1500 | 10 | |
| 10061-02-6 | trans-1,3-Dichloropropene | 1500 | 10 | |
| 75-25-2 | Bromoform | 1500 | 10 | |
| 108-10-1 | 4-Methyl-2-Pentanone | 1210 | 10 | |
| 591-78-6 | 2-Hexanone | 11000 | 10 | |
| 127-18-4 | Tetrachloroethene | 1500 | 10 | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 1500 | 10 | |
| 108-88-3 | Toluene | 11800 | 1 | |
| 108-90-7 | Chlorobenzene | 1500 | 10 | |
| 100-41-4 | Ethylbenzene | 1500 | 10 | |
| 100-42-5 | Styrene | 1500 | 10 | |
| 1330-20-7 | Xylene (total) | 1500 | 10 | |



Data File: >D2627::U1

Quant Output File: ^D2627::AQ

Name: H5568RE

Misc: CAR66803,0V70445,L:M4,0.05,,

Id File: ID0310::SS

Title: PP/VOA, IFB, XVUA13, XVUAY

Last Calibration: 910114 11:09

Operator ID: KB6656

Quant Time: 910115 20:46

Injected at: 910115 20:07

Operator ID: KB6656
 Output File: ^D2627::AQ
 Data File: >D2627::U1
 Name: A5568RE
 Misc: CA5568U₃, QV7U445, L:M4, U.05,,

Quant Rev: 7 Quant Time: 910115 20:46
 Injected at: 910115 20:07
 Dilution Factor: 1.00000

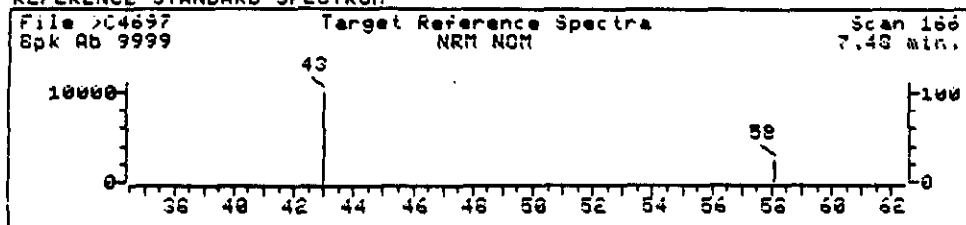
ID File: IDU310::SS
 Title: PP/VOA, IFB, XVOA13, XVOA9
 Last Calibration: 910114 11:09

| | Compound | R.T. | Scan# | Area | Conc | Units | q |
|-----|------------------------------|-------|-------|--------|------------------|-------|-----|
| 1) | *Bromochloromethane | 11.39 | 260 | 67455 | 250.00 | NG | 94 |
| 7) | Methylene chloride | 7.94 | 171 | 8938 | 71.72 | NG | 90 |
| 9) | Acetone | 8.71 | 191 | 55337 | 308.79 | NG | 92 |
| 9) | Acetone | 9.18 | 203 | 3072 | 12.14 | NG | 98 |
| 15) | Tetrahydrofuran | 12.36 | 285 | 48796 | 901.62 | NG | 100 |
| 16) | 1,2-Trans-dichloroethylene | 13.05 | 303 | 6556 | 20.63 | NG | 90 |
| 18) | 1,2-Dichloroethane-D4 (SURR) | 14.29 | 335 | 188023 | 298.94 | NG | 91 |
| 21) | *1,4-Difluorobenzene | 22.05 | 535 | 367446 | 250.00 | NG | 98 |
| 22) | Methyl ethyl ketone | 14.37 | 337 | 23240 | 477.91 | NG | 97 |
| 37) | *Chlorobenzene-d5 | 26.98 | 662 | 310923 | 250.00 | NG | 81 |
| 38) | Methyl-iso-butyl ketone | 22.78 | 554 | 4864 | 10.66 | NG | 86 |
| 42) | Toluene-D8 (SURR) | 25.77 | 631 | 378843 | 246.80 | NG | 95 |
| 43) | Toluene | 25.97 | 636 | 76498 | 88.39 | NG | 97 |
| 44) | Chlorobenzene | 27.10 | 665 | 4037 | 3.56 | NG | 70 |
| 46) | p-Bromofluorobenzene (SURR) | 32.30 | 799 | 235474 | 244.33 | NG | 84 |

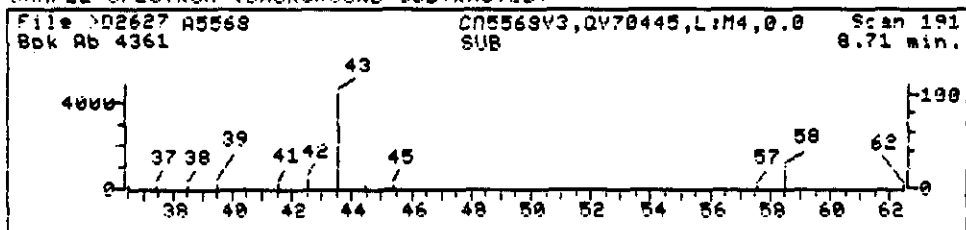
* Compound is ISTD

AP 1/22/91

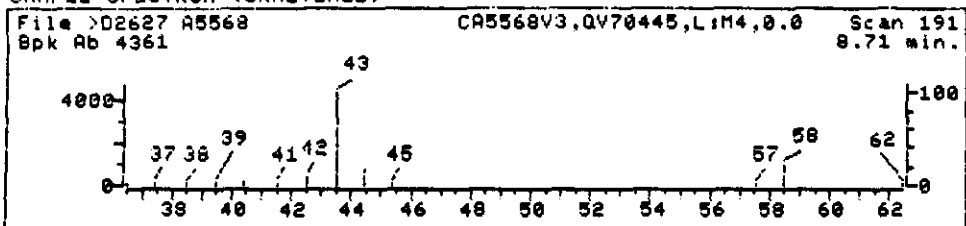
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)



Data File: >D2627::U1

Quant Output File: ^D2627::AU

Name: A5568~~AE~~

Misc: CA5568V3, QV70445, L:M4, 0.05, ,

Quant Time: 910115 20:46

Quant ID File: ID0310::S5

Injected at: 910115 20:07

Last Calibration: 910114 11:09

Compound No: 9

Compound Name: Acetone

Scan Number: 191

Retention Time: 8.71 min.

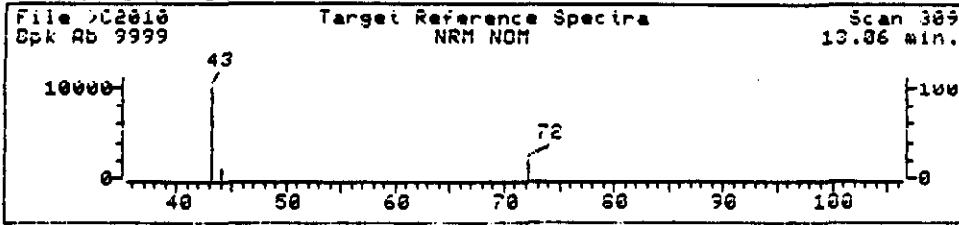
Quant Ion: 43.0

Area: 55337

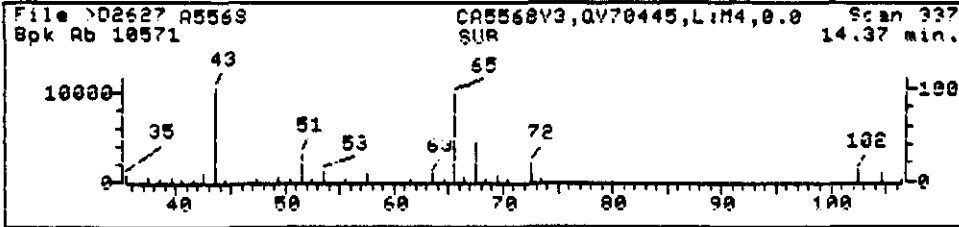
Concentration: 308.79 NG

q-value: 92

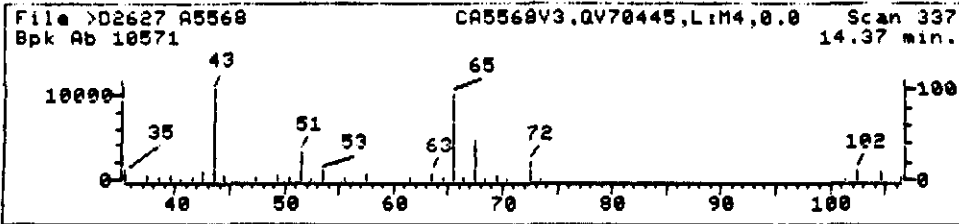
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)



Data File: >D2627::U1

Quant Output File: ^D2627::AU

Name: A5568RS

Misc: CA5568V3,QV70445,L:M4,0.05,,

Quant Time: 910115 20:46

Quant ID File: 100310::Sb

Injected at: 910115 20:07

Last Calibration: 910114 11:09

Compound No: 22

Compound Name: Methyl ethyl ketone

Scan Number: 337

Retention Time: 14.37 min.

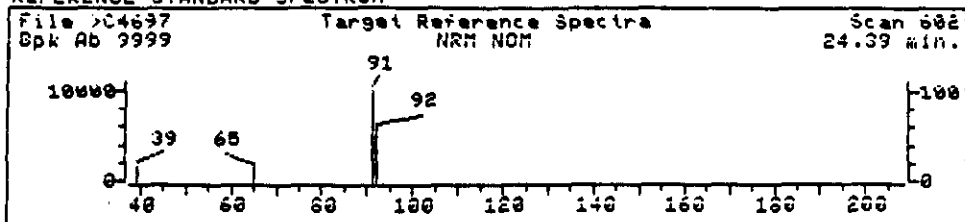
Quant Ion: 72.0

Area: 23240

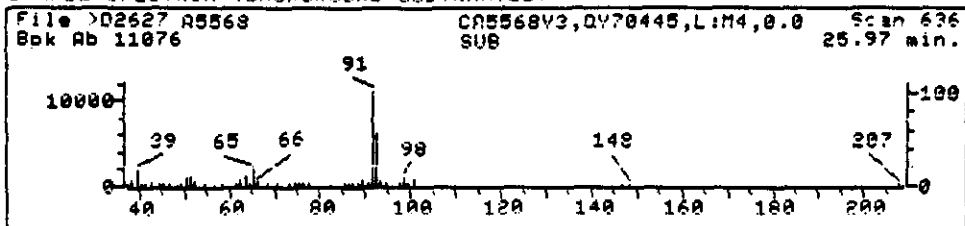
Concentration: 477.91 NG

q-value: 97

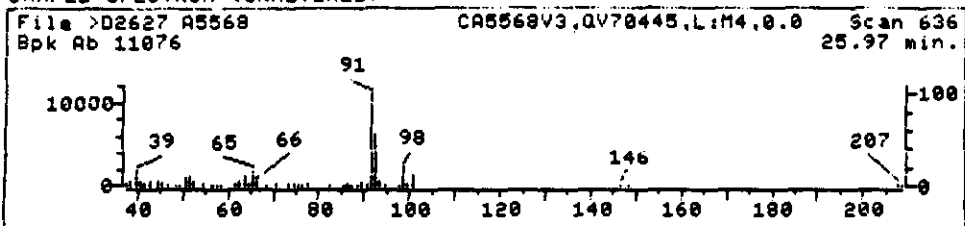
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



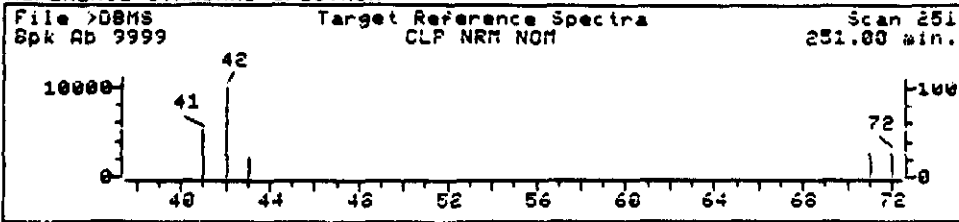
SAMPLE SPECTRUM (UNALTERED)



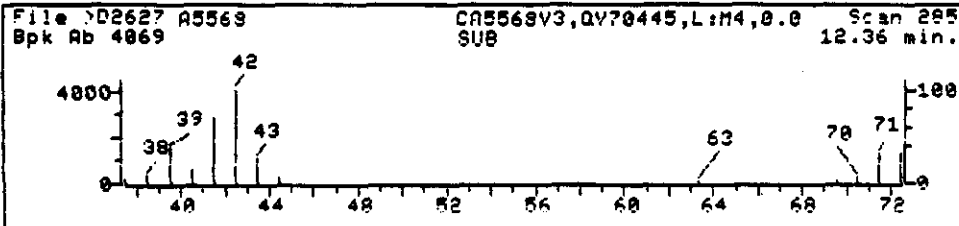
Data File: >D2627::U1 Quant Output File: ^D2627::AQ
 Name: A5568RE AS
 Misc: CA5568V3,QV70445,L:M4,0.05,,
 Quant Time: 910115 20:46 Quant ID File: ID031U::S5
 Injected at: 910115 20:07 Last Calibration: 910114 11:09

Compound No: 43
 Compound Name: Toluene
 Scan Number: 636
 Retention Time: 25.97 min.
 Quant Ion: 92.0
 Area: 76498
 Concentration: 88.39 NG
 q-value: 97

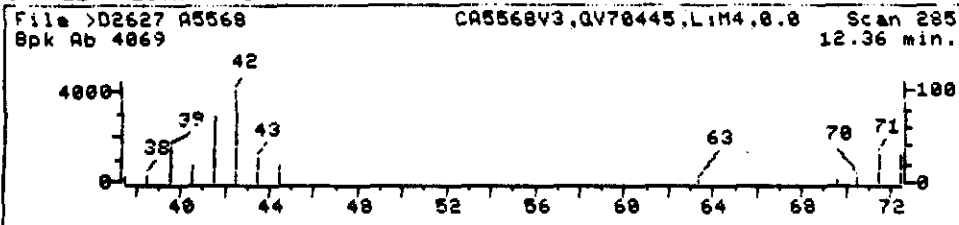
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)



Data File: >D2627::U1 Quant Output File: ^D2627::AW
 Name: A5568~~RE~~^{RE}
 Misc: CA5568V3,QV70445,L:M4,0.05,,
 Quant Time: 910115 20:46 Quant ID File: I00310::S5
 Injected at: 910115 20:07 Last Calibration: 910114 11:09

Compound No: 15
 Compound Name: Tetrahydrofuran
 Scan Number: 285
 Retention Time: 12.36 min.
 Quant Ion: 42.0
 Area: 48796
 Concentration: 901.62 NG
 q-value: 100

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

1A5584

Lab Name: ETC Corp.

Contract:

Lab Code:

Case No.:

SAS No.:

SUG No.:

Matrix: (soil/water) WATER

Lab Sample ID: CA5584

Sample wt/vol: 5.0 (g/mL) ML

Lab File ID: >02600

Level: (low/med) LOW

Date Received: 1/8/91

% Moisture: not dec.

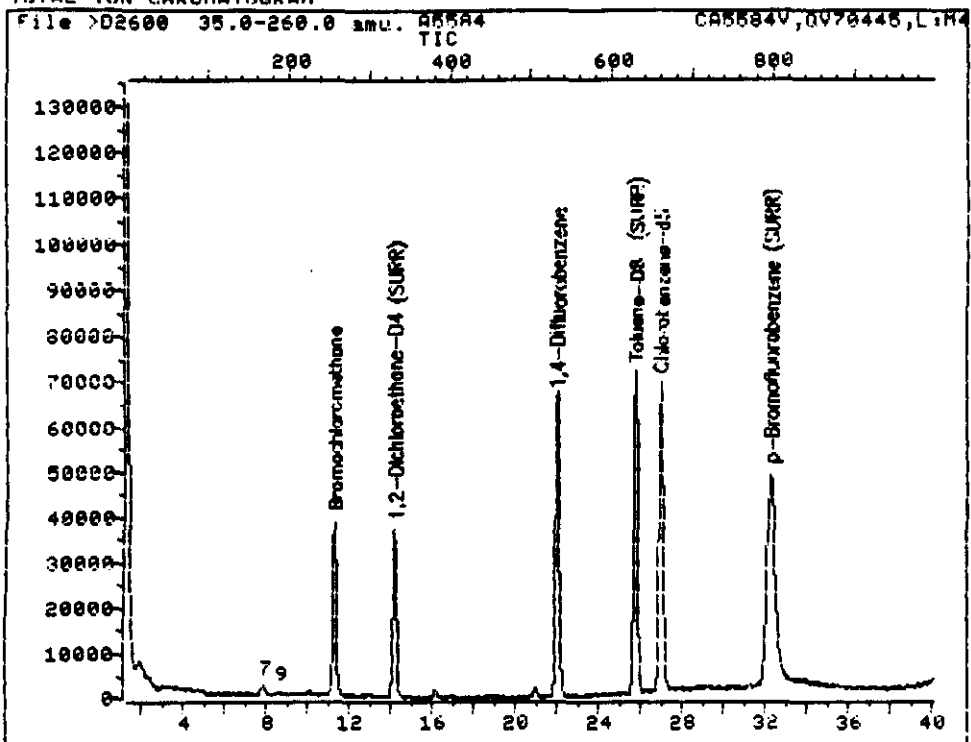
Date Analyzed: 01/14/91

Column: (pack/cap) PACK

Dilution Factor:

| CAS NO. | COMPOUND | CONCENTRATION UNITS: | |
|------------|----------------------------|----------------------|------|
| | | (ug/L or ug/Kg) | UG/L |
| 74-87-3 | Chloromethane | 110 | 10 |
| 74-83-9 | Bromomethane | 110 | 10 |
| 75-01-4 | Vinyl Chloride | 110 | 10 |
| 75-00-3 | Chloroethane | 110 | 10 |
| 75-09-2 | Methylene Chloride | 13 | 10 |
| 67-64-1 | Acetone | 15 | 10 |
| 75-15-0 | Carbon Disulfide | 15 | 10 |
| 75-35-4 | 1,1-Dichloroethene | 15 | 10 |
| 75-34-3 | 1,1-Dichloroethane | 15 | 10 |
| 540-59-0 | 1,2-Dichloroethene (total) | 15 | 10 |
| 67-66-3 | Chloroform | 15 | 10 |
| 107-06-2 | 1,2-Dichloroethane | 15 | 10 |
| 78-93-3 | 2-Butanone | 110 | 10 |
| 71-55-6 | 1,1,1-Trichloroethane | 15 | 10 |
| 56-23-5 | Carbon Tetrachloride | 15 | 10 |
| 108-05-4 | Vinyl Acetate | 110 | 10 |
| 75-27-4 | Bromodichloromethane | 15 | 10 |
| 78-87-5 | 1,2-Dichloropropane | 15 | 10 |
| 10061-01-5 | cis-1,3-Dichloropropene | 15 | 10 |
| 79-01-6 | Trichloroethene | 15 | 10 |
| 124-48-1 | Dibromochloromethane | 15 | 10 |
| 79-00-5 | 1,1,2-Trichloroethane | 15 | 10 |
| 71-43-2 | Benzene | 15 | 10 |
| 10061-02-6 | trans-1,3-Dichloropropene | 15 | 10 |
| 75-25-2 | Bromoform | 15 | 10 |
| 108-10-1 | 4-Methyl-2-Pentanone | 110 | 10 |
| 591-78-6 | 2-Hexanone | 110 | 10 |
| 127-18-4 | Tetrachloroethene | 15 | 10 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 15 | 10 |
| 108-88-3 | Toluene | 15 | 10 |
| 108-90-7 | Chlorobenzene | 15 | 10 |
| 100-41-4 | Ethylbenzene | 15 | 10 |
| 100-42-5 | Styrene | 15 | 10 |
| 1330-20-7 | Xylene (total) | 15 | 10 |

TOTAL ION CHROMATOGRAM



Data File: >D2600::U1

Quant Output File: ^D2600::AQ

Name: A5584

Misc: CA5584V,QU70445,L:M4,5,,

Id File: ID0310::SS

Title: PP/VOA, IFB, XV0A13, XV0A9

Last Calibration: 910113 18:53

Operator ID: KB6656

Quant Time: 910114 04:25

Injected at: 910114 03:44

QUANT REPORT

Page 1

Operator ID: KB6656
 Output File: ^D2600::AQ
 Data File: >D2600::U1
 Name: A5584
 Misc: CA5584U,QU70445,L:M4,5,,

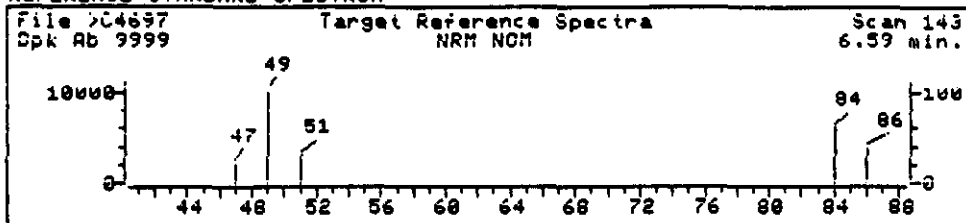
Quant Rev: 7 Quant Time: 910114 04:29
 Injected at: 910114 03:44
 Dilution Factor: 1.00000

ID File: IDU310::SS
 Title: PP/VOA, 1FB, XVUA13, XVUA9
 Last Calibration: 910113 18:53

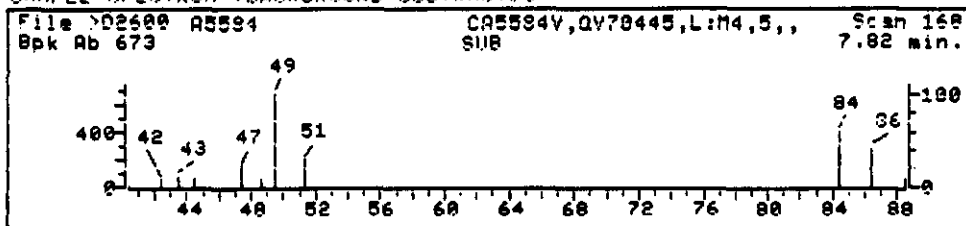
| Compound | R.T. | Scan# | Area | Conc | Units | q |
|----------------------------------|-------|-------|--------|--------|-------|----|
| 1) *Bromochloromethane | 11.31 | 298 | 59647 | 250.00 | NG | 95 |
| 7) Methylene chloride | 7.82 | 168 | 5653 | 15.95 | NG | 96 |
| 9) Acetone | 8.63 | 189 | 4245 | 23.23 | NG | 91 |
| 18) 1,2-Dichloroethane-U4 (SURR) | 14.21 | 333 | 177806 | 279.72 | NG | 95 |
| 21) *1,4-Difluorobenzene | 22.01 | 534 | 312724 | 250.00 | NG | 97 |
| 37) *Chlorobenzene-d5 | 26.98 | 662 | 265531 | 250.00 | NG | 7 |
| 42) Toluene-D8 (SURR) | 25.77 | 631 | 321601 | 241.36 | NG | 94 |
| 46) p-Bromofluorobenzene (SURR) | 32.26 | 798 | 203631 | 246.31 | NG | 8 |

* Compound is ISTD

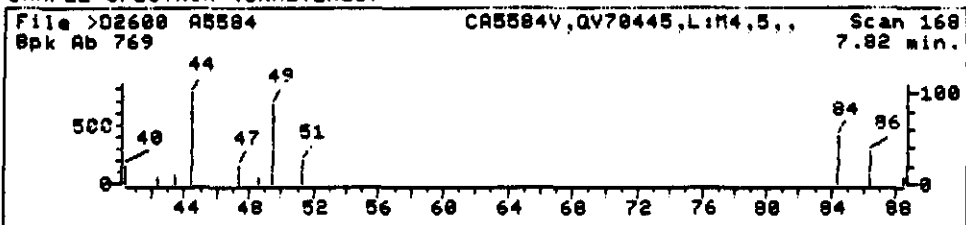
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)



Date File: >D2600::U1

Quant Output File: ^D2600::AQ

Name: A5584

Misc: CA5584V,QV70445,L:M4,5,,

Quant Time: 910114 04:25

Quant ID File: 100310::S5

Injected at: 910114 03:44

Last Calibration: 910113 18:53

Compound No: 7

Compound Name: Methylene chloride

Scan Number: 168

Retention Time: 7.82 min.

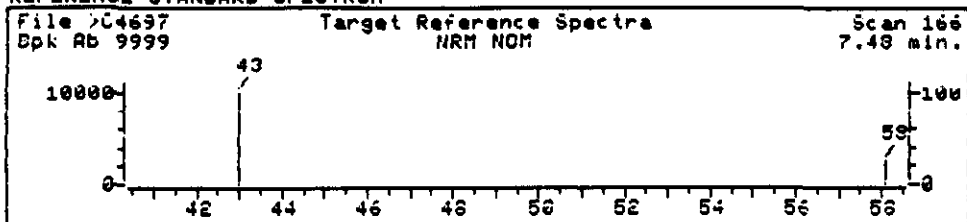
Quant Ion: 84.0

Area: 5693

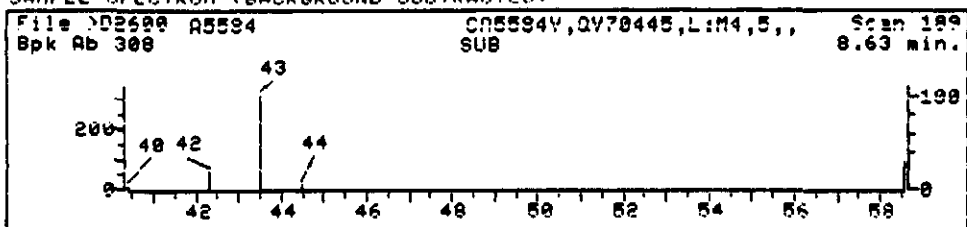
Concentration: 15.95 NG

q-value: 96

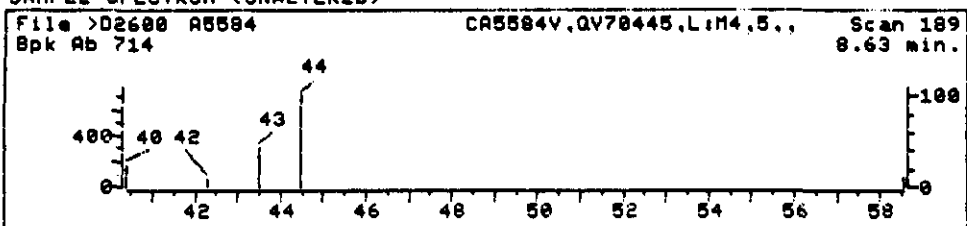
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)



Data File: >D2600::U1
 Name: A5584
 Misc: CA5584V,QV70445,L:M4,5,,
 Quant Time: 910114 04:25
 Injected at: 910114 03:44

Quant Output File: ^D2600::AQ

Quant ID File: ID0310::SS
 Last Calibration: 910113 18:53

Compound No: 9
 Compound Name: Acetone
 Scan Number: 189
 Retention Time: 8.63 min.
 Quant Ion: 43.0
 Area: 4245
 Concentration: 23.23 NG
 q-value: 91

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

1A5588

Lab Name: ETC Corp.

Contract:

Lab Code:

Case No.:

SAS No.:

SUG No.:

Matrix: (soil/water) WATER

Lab Sample ID: DA558802

Sample wt/vol: .001 (g/mL) ML

Lab File ID: >02628

Level: (low/med) LOW

Date Received: 1/8/91

% Moisture: not dec.

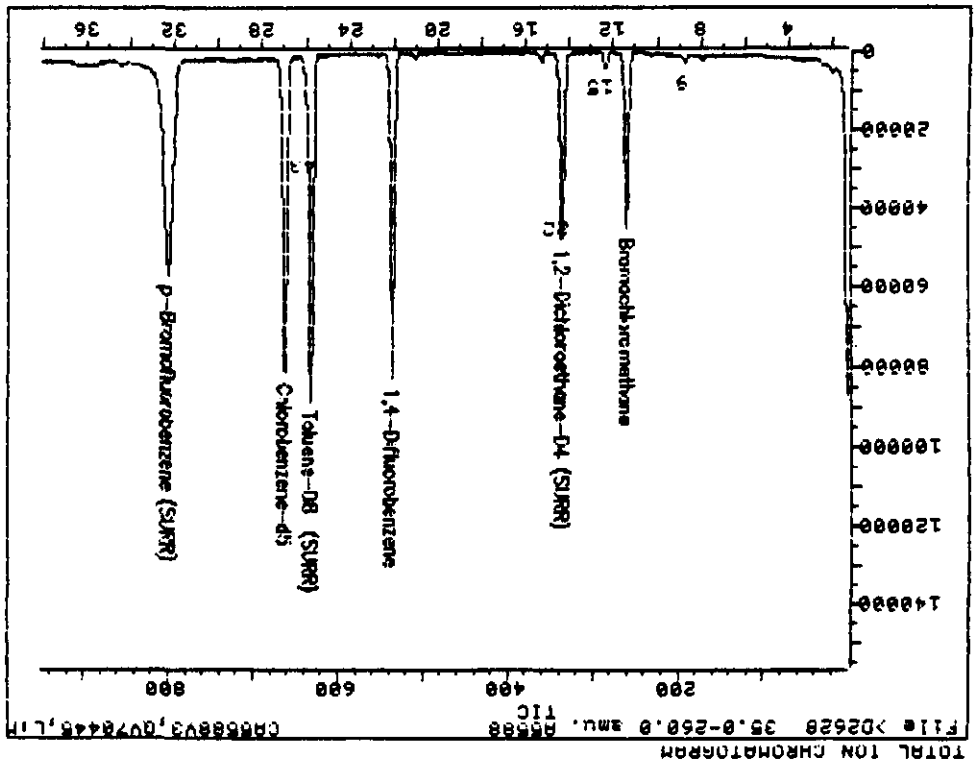
Date Analyzed: 01/15/91

Column: (pack/cap) PACK

Dilution Factor: 5000

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Rg) | UG/L | U |
|------------|----------------------------|---|---------|----|
| 74-87-3 | Chloromethane | | 150000 | 10 |
| 74-83-9 | Bromomethane | | 150000 | 10 |
| 75-01-4 | Vinyl Chloride | | 150000 | 10 |
| 75-00-3 | Chloroethane | | 150000 | 10 |
| 75-09-2 | Methylene Chloride | | 125000 | 10 |
| 67-64-1 | Acetone | | 195000 | 1 |
| 75-15-0 | Carbon Disulfide | | 125000 | 10 |
| 75-35-4 | 1,1-Dichloroethene | | 125000 | 10 |
| 75-34-3 | 1,1-Dichloroethane | | 125000 | 10 |
| 540-59-0 | 1,2-Dichloroethene (total) | | 125000 | 10 |
| 67-66-3 | Chloroform | | 125000 | 10 |
| 107-06-2 | 1,2-Dichloroethane | | 125000 | 10 |
| 78-93-3 | 2-Butanone | | 1500000 | 1 |
| 71-55-6 | 1,1,1-Trichloroethane | | 125000 | 10 |
| 56-23-5 | Carbon Tetrachloride | | 125000 | 10 |
| 108-05-4 | Vinyl Acetate | | 150000 | 10 |
| 75-27-4 | Bromodichloromethane | | 125000 | 10 |
| 78-87-5 | 1,2-Dichloropropane | | 125000 | 10 |
| 10061-01-5 | cis-1,3-Dichloropropene | | 125000 | 10 |
| 79-01-6 | Trichloroethene | | 125000 | 10 |
| 124-48-1 | Dibromochloromethane | | 125000 | 10 |
| 79-00-5 | 1,1,2-Trichloroethane | | 125000 | 10 |
| 71-43-2 | Benzene | | 125000 | 10 |
| 10061-02-6 | trans-1,3-Dichloropropene | | 125000 | 10 |
| 75-25-2 | Bromoform | | 125000 | 10 |
| 108-10-1 | 4-Methyl-2-Pentanone | | 150000 | 10 |
| 591-78-6 | 2-Hexanone | | 150000 | 10 |
| 127-18-4 | Tetrachloroethene | | 125000 | 10 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | | 125000 | 10 |
| 108-88-3 | Toluene | | 134000 | 1 |
| 108-90-7 | Chlorobenzene | | 125000 | 10 |
| 100-41-4 | Ethylbenzene | | 125000 | 10 |
| 100-42-5 | Styrene | | 125000 | 10 |
| 1330-20-7 | Xylene (total) | | 125000 | 10 |

Data File: >D2628:U1
 Name: A5588
 Misc: C85588U3, QV70445, L:M4, 0.001,,
 ID File: I00310:SS
 Title: PP/UDA, IFB, XUD013, XUD09
 Last Calibration: 910114 11:09
 Operator ID: KB6656
 Quant Time: 910115 21:30
 Injected at: 910115 20:51



Operator ID: KB6656
 Output File: ^D2628::AW
 Data File: >D2628::U1
 Name: A5588
 Misc: CA5588U3, QV7U445, L:M4, 0.001,,

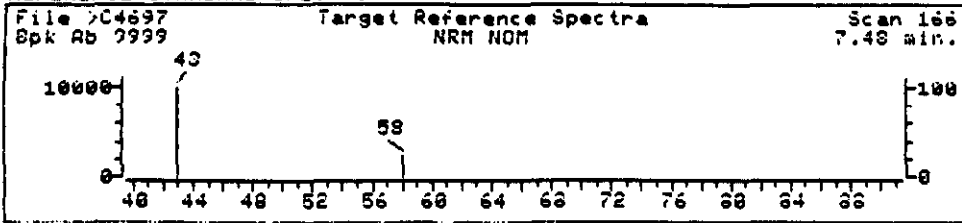
Quant Rev: 7 Quant Time: 910115 21:30
 Injected at: 910115 20:51
 Dilution Factor: 1.00000

ID File: ID0310::SS
 Title: PP/VOA, IFB, XVOA13, XVOA9
 Last Calibration: 910114 11:09

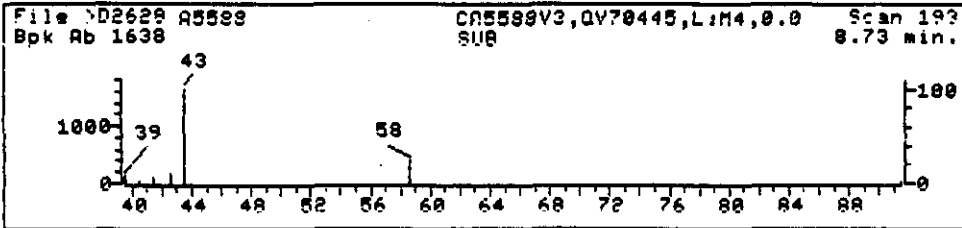
| | Compound | R.T. | Scan# | Area | Conc | Units | q |
|-----|------------------------------|-------|-------|--------|--------|-------|-----|
| 1) | *Bromochloromethane | 11.37 | 261 | 82967 | 250.00 | NG | 96 |
| 9) | Acetone | 8.73 | 193 | 21010 | 95.32 | NG | 97 |
| 15) | Tetrahydrofuran | 12.38 | 287 | 10577 | 158.90 | NG | 100 |
| 18) | 1,2-Dichloroethane-D4 (SUKR) | 14.51 | 537 | 191628 | 247.71 | NG | 95 |
| 21) | *1,4-Difluorobenzene | 22.07 | 537 | 370337 | 250.00 | NG | 98 |
| 22) | Methyl ethyl ketone | 14.59 | 539 | 24727 | 504.52 | NG | 96 |
| 37) | *Chlorobenzene-d5 | 26.96 | 663 | 318630 | 250.00 | NG | 79 |
| 42) | Toluene-D8 (SUKR) | 25.79 | 633 | 386455 | 247.67 | NG | 94 |
| 43) | Toluene | 25.95 | 637 | 30015 | 33.84 | NG | 97 |
| 46) | p-Bromofluorobenzene (SUKR) | 32.28 | 800 | 240756 | 243.97 | NG | 89 |

* Compound is ISTD

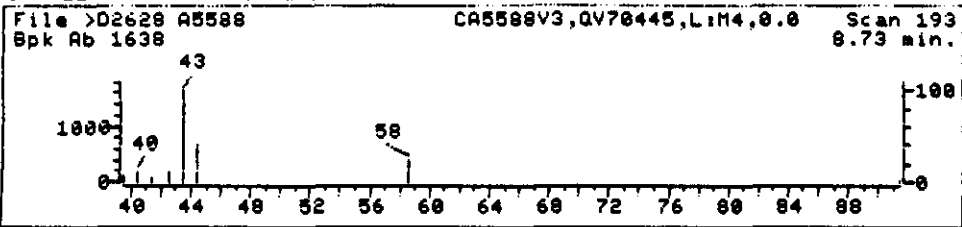
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



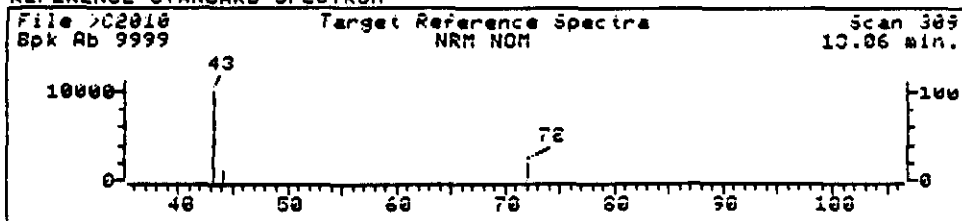
SAMPLE SPECTRUM (UNALTERED)



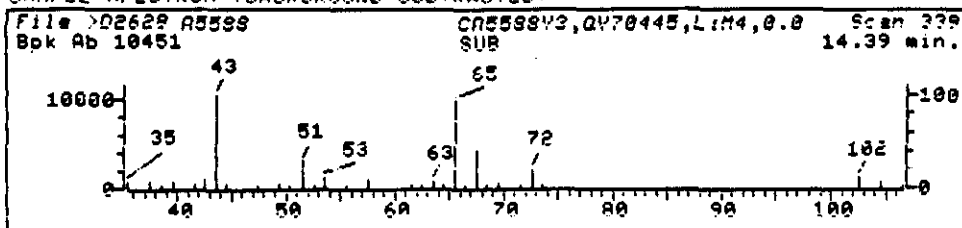
Data File: >D2628::U1 Quant Output File: ^D2628::AW
 Name: A5588
 Misc: CA5588V3,QV70445,L:M4,0.001,,
 Quant Time: 910115 21:30 Quant ID File: 100310::55
 Injected at: 910115 20:51 Last Calibration: 910114 11:09

Compound No: 9
 Compound Name: Acetone
 Scan Number: 193
 Retention Time: 8.73 min.
 Quant ion: 43.0
 Area: 21010
 Concentration: 95.32 NG
 q-value: 97

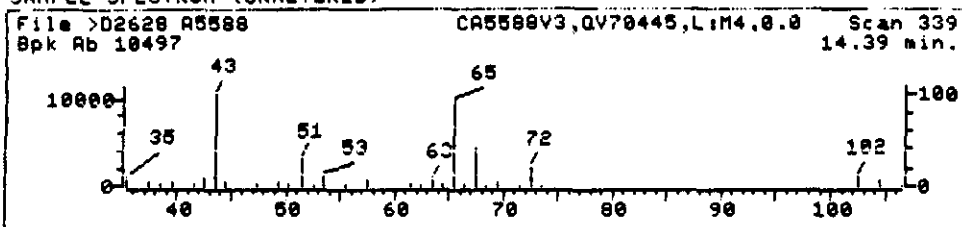
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



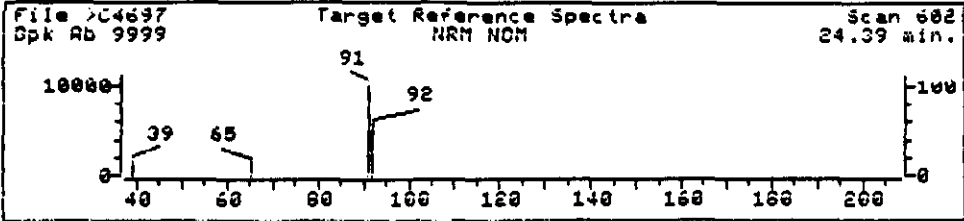
SAMPLE SPECTRUM (UNALTERED)



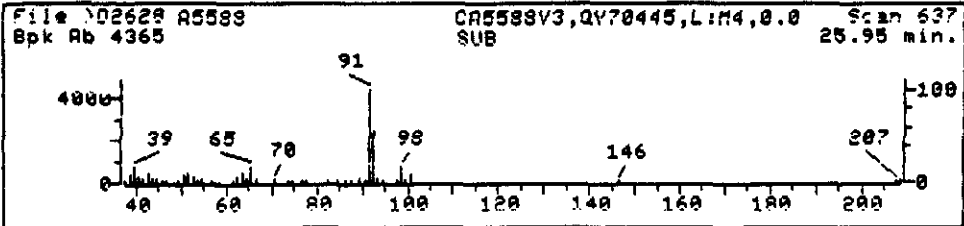
Data File: >D2628::U1 Quant Output File: ^D2628::AQ
Name: A5588
Misc: CA5588U3,QV70445,L:M4,0.001,,
Quant Time: 910115 21:30 Quant IO File: 100310::S5
Injected at: 910115 20:51 Last Calibration: 910114 11:09

Compound No: 22
Compound Name: Methyl ethyl ketone
Scan Number: 339
Retention Time: 14.39 min.
Quant Ion: 72.0
Area: 24727
Concentration: 504.52 NG
q-value: 96

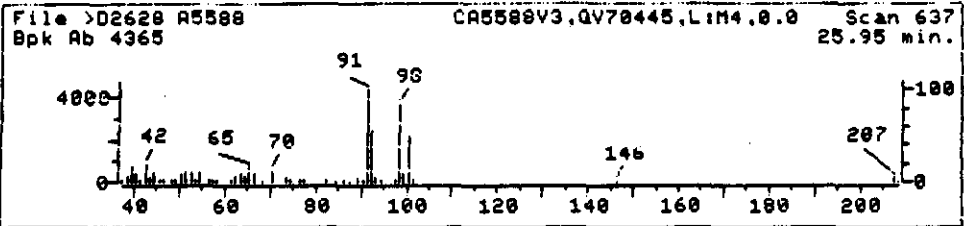
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



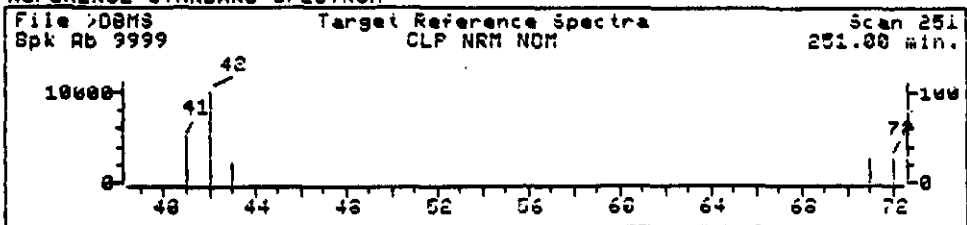
SAMPLE SPECTRUM (UNALTERED)



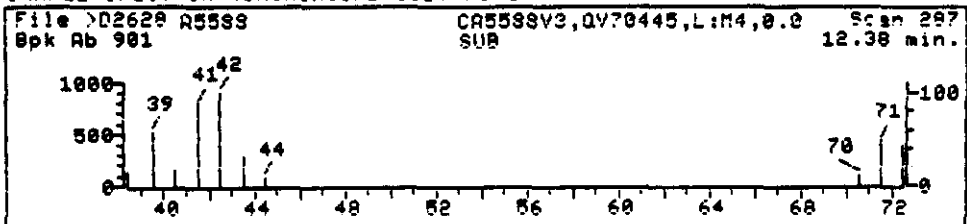
Date File: >D2628::U1 Quant Output File: ^D2628::AU
 Name: A5588
 Misc: CA5588V3,QV70445,L:M4,0.001,,
 Quant Time: 910115 21:30 Quant ID File: 100310::S5
 Injected at: 910115 20:51 Last Calibration: 910114 11:09

Compound No: 43
 Compound Name: Toluene
 Scan Number: 637
 Retention Time: 25.95 min.
 Quant Ion: 92.0
 Area: 30015
 Concentration: 33.84 NG
 q-value: 97

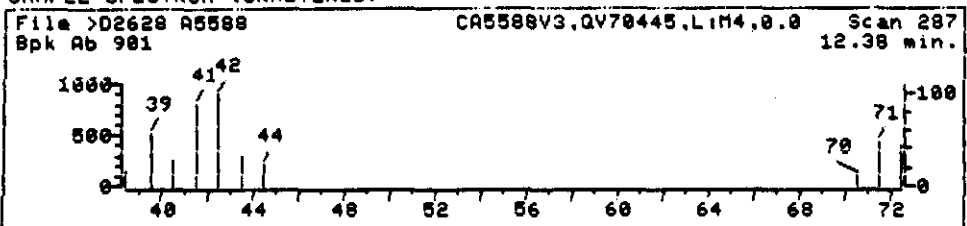
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)



Data File: >D2628::U1 Quant Output File: ^D2628::AU
 Name: A5588
 Misc: CA5588V3,QV70445,L:M4,0.001,,
 Quant Time: 910115 21:30 Quant ID File: 100310::SS
 Injected at: 910115 20:51 Last Calibration: 910114 11:09

Compound No: 15
 Compound Name: Tetrahydrofuran
 Scan Number: 287
 Retention Time: 12.38 min.
 Quant Ion: 42.0
 Area: 10577
 Concentration: 158.90 NG
 q-value: 100

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CA9589

Lab Name: ETC Corp.

Contract:

Lab Code:

Case No.:

SAS No.:

SUG No.:

Matrix: (soil/water) WATER

Lab Sample ID: CA9589

Sample wt/vol: 5.0 (g/mL) ML

Lab File ID: >D2601

Level: (low/med) LOW

Date Received: 1/8/91

% Moisture: not dec.

Date Analyzed: 01/14/91

Column: (pack/cap) PACK

Dilution Factor: 1

| CAS NO. | COMPOUND | CONCENTRATION UNITS: | |
|------------|----------------------------|----------------------|------|
| | | (ug/L or ug/Kg) | UG/L |
| 74-87-3 | Chloromethane | 110 | 10 |
| 74-83-9 | Bromomethane | 110 | 10 |
| 75-01-4 | Vinyl Chloride | 110 | 10 |
| 75-00-3 | Chloroethane | 110 | 10 |
| 75-09-2 | Methylene Chloride | 11 | 10 |
| 67-64-1 | Acetone | 14 | 10 |
| 75-15-0 | Carbon Disulfide | 15 | 10 |
| 75-35-4 | 1,1-Dichloroethene | 15 | 10 |
| 75-34-3 | 1,1-Dichloroethane | 15 | 10 |
| 540-59-0 | 1,2-Dichloroethene (total) | 13 | 10 |
| 67-66-3 | Chloroform | 15 | 10 |
| 107-06-2 | 1,2-Dichloroethane | 15 | 10 |
| 78-93-3 | 2-Butanone | 110 | 10 |
| 71-55-6 | 1,1,1-Trichloroethane | 15 | 10 |
| 56-23-5 | Carbon Tetrachloride | 15 | 10 |
| 108-05-4 | Vinyl Acetate | 110 | 10 |
| 75-27-4 | Bromodichloromethane | 15 | 10 |
| 78-87-5 | 1,2-Dichloropropane | 15 | 10 |
| 10061-01-5 | cis-1,3-Dichloropropene | 15 | 10 |
| 79-01-6 | Trichloroethene | 120 | 10 |
| 124-48-1 | Dibromochloromethane | 15 | 10 |
| 79-00-5 | 1,1,2-Trichloroethane | 15 | 10 |
| 71-43-2 | Benzene | 15 | 10 |
| 10061-02-6 | trans-1,3-Dichloropropene | 15 | 10 |
| 75-25-2 | Bromoform | 15 | 10 |
| 108-10-1 | 4-Methyl-2-Pentanone | 110 | 10 |
| 591-78-6 | 2-Hexanone | 110 | 10 |
| 127-18-4 | Tetrachloroethene | 13 | 10 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 15 | 10 |
| 108-88-3 | Toluene | 15 | 10 |
| 108-90-7 | Chlorobenzene | 15 | 10 |
| 100-41-4 | Ethylbenzene | 15 | 10 |
| 100-42-5 | Styrene | 15 | 10 |
| 1330-20-7 | Xylene (total) | 15 | 10 |

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

EA5589

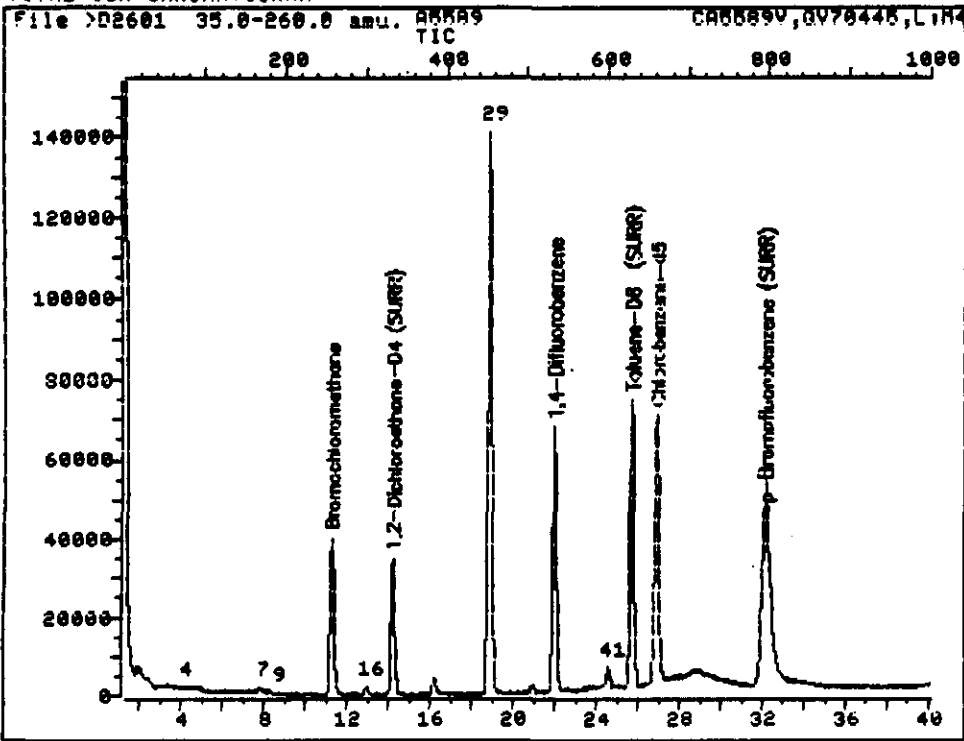
Lab Name: ETC Corp. Laboratory Contract:
Lab Code: Case No.: SAS No.: SUG No.:
Matrix: (soil/water) WATER Lab Sample ID: CA55890
Sample wt/vol: 5.0 (g/mL) ML Lab File ID: >U2601
Level: (low/med) LOW Date Received: 1/8/91
% Moisture: not dec. Date Analyzed: 01/14/91
Column: (pack/cap) PACK Dilution Factor: 1.0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 1

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC | Q |
|---------------|---------------------|-------|-----------|---|
| 01. 1066-40-6 | Silanol, trimethyl- | 16.18 | 6 | U |
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TOTAL ION CHROMATOGRAM



Data File: >D2601::U1

Quant Output File: ^D2601::AQ

Name: A5589

Misc: CA5589U,QU70445,L:M4,5,,

Id File: ID0310::SS

Title: PP/VOA, IFB, XV0A13, XV0A9

Last Calibration: 910113 18:53

Operator ID: KB6656

Quant Time: 910114 05:11

Injected at: 910114 04:31

QUANT REPORT

Page 1

Operator ID: KB6656
 Output File: ^D2601::AQ
 Data File: >D2601::U1
 Name: A5589
 Misc: CA5589U,QU70445,L:M4,5,,

Quant Rev: 7 Quant Time: 910114 05:11
 Injected at: 910114 04:31
 Dilution Factor: 1.00000

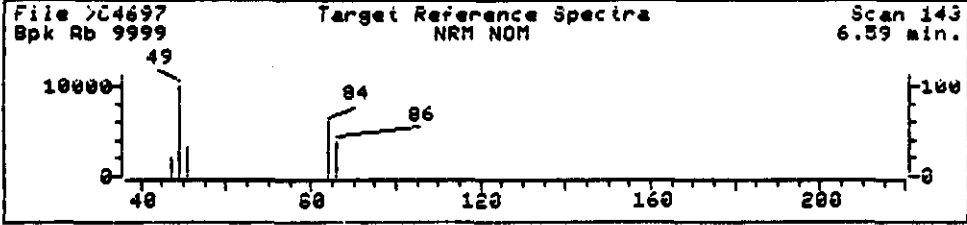
ID File: ID0310::SS
 Title: PP/VOA, 1FB, XVUA13, XV0A9
 Last Calibration: 910113 18:53

| | Compound | R.T. | Scan# | Area | Conc | Units | q |
|-----|------------------------------|-------|-------|--------|-----------------|-------|----|
| 1) | *Bromochloromethane | 11.30 | 258 | 71171 | 250.00 | NG | 90 |
| 4) | Dichlorodifluoromethane | 4.13 | 73 | 2302 | 4.35 | NG | 98 |
| 7) | Methylene chloride | 7.85 | 169 | 2588 | 6.12 | NG | 94 |
| 9) | Acetone | 8.66 | 190 | 3893 | 17.86 | NG | 94 |
| 16) | 1,2-Trans-dichloroethylene | 12.97 | 301 | 5080 | 12.62 | NG | 98 |
| 18) | 1,2-Dichloroethane-D4 (SURR) | 14.25 | 334 | 172441 | 227.36 | NG | 98 |
| 21) | *1,4-Difluorobenzene | 22.00 | 534 | 311889 | 250.00 | NG | 98 |
| 29) | Trichloroethylene | 18.90 | 454 | 296111 | 581.63 | NG | 98 |
| 37) | *Chlorobenzene-d5 | 26.94 | 661 | 265808 | 250.00 | NG | 78 |
| 41) | Tetrachloroethylene | 24.56 | 600 | 7350 | 14.16 | NG | 98 |
| 42) | Toluene-DB (SURR) | 25.72 | 630 | 321511 | 241.04 | NG | 92 |
| 46) | p-Bromofluorobenzene (SURR) | 32.13 | 795 | 203355 | 245.72 | NG | 88 |

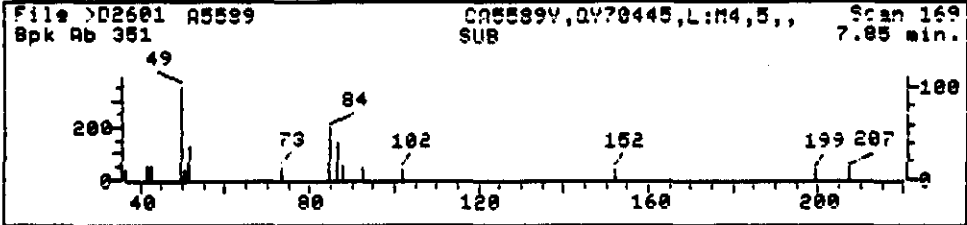
* Compound is ISTD

MP 1/22/91

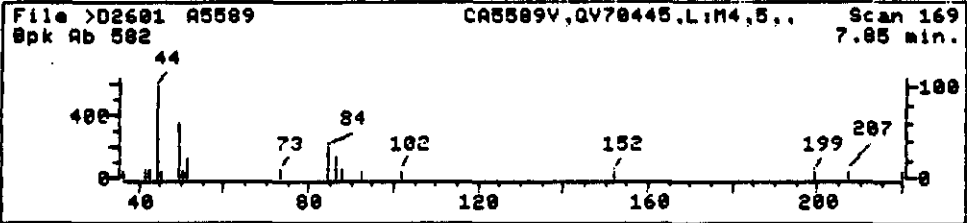
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)



Data File: >D2601::U1

Quant Output File: ^D2601::AQ

Name: A5589

Misc: CA5589V,QU70445,L:M4,5,,

Quant Time: 910114 05:11

Quant ID File: ID0310::S5

Injected at: 910114 04:31

Last Calibration: 910113 18:53

Compound No: 7

Compound Name: Methylene chloride

Scan Number: 169

Retention Time: 7.85 min.

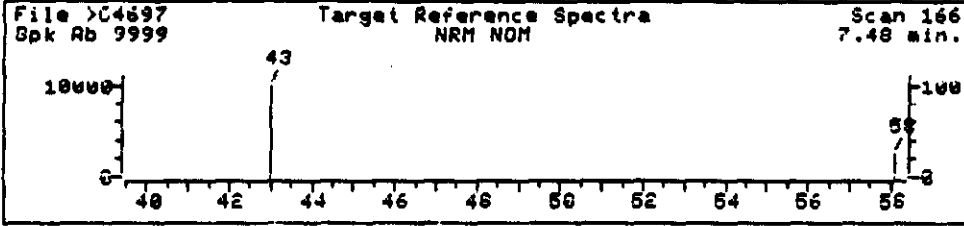
Quant Ion: 84.0

Area: 2588

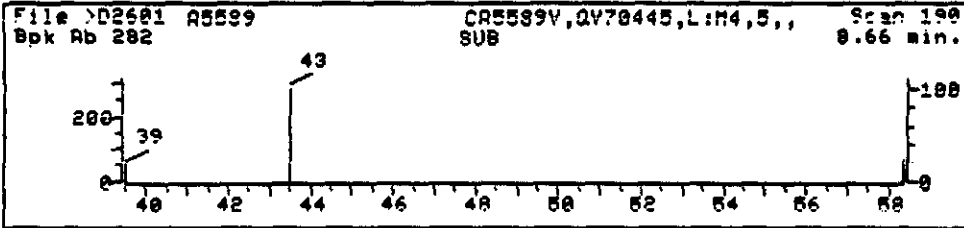
Concentration: 6.12 NG

q-value: 94

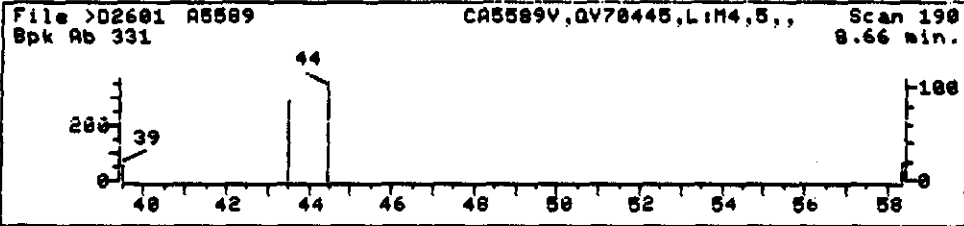
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)

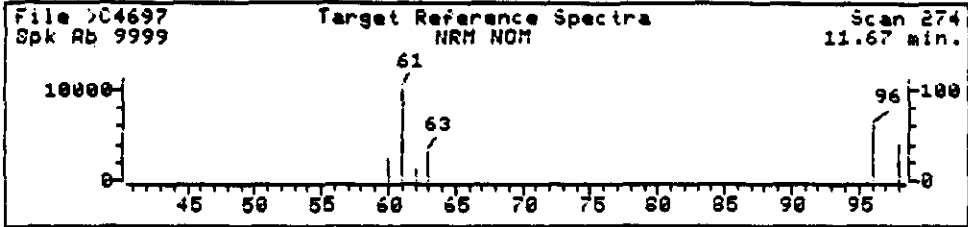


Data File: >D2601::U1
Name: A5589
Misc: CA5589V,QV70445,L:M4,5,,
Quant Time: 910114 09:11
Injected at: 910114 04:31

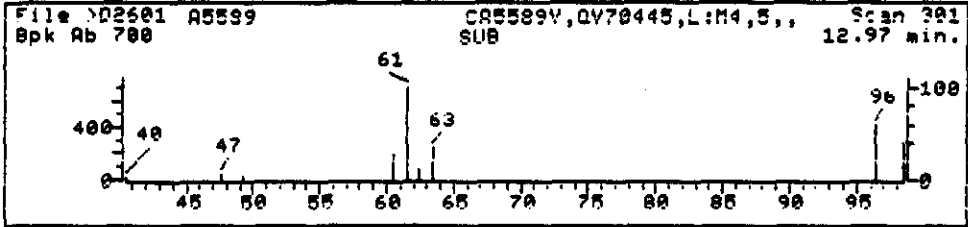
Quant Output File: ^D2601::AQ
Quant ID File: ID0310::SS
Last Calibration: 910113 10:53

Compound No: 9
Compound Name: Acetone
Scan Number: 190
Retention Time: 8.66 min.
Quant Ion: 43.0
Area: 3893
Concentration: 17.86 NG
q-value: 94

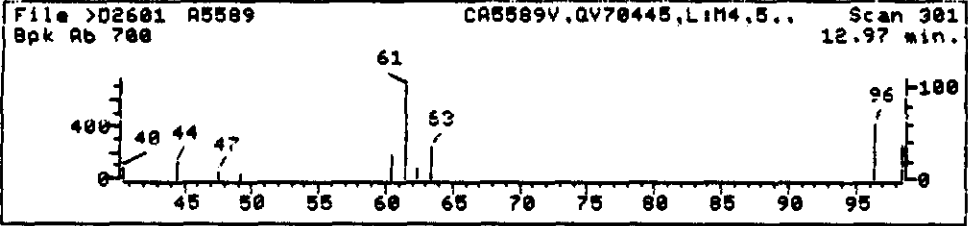
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)



Data File: >D2601::U1

Quant Output File: ^D2601::AQ

Name: A5589

Misc: CA5589V,QV70445,L:M4,5,,

Quant Time: 910114 05:11

Quant ID File: 1D0310::S5

Injected at: 910114 04:31

Last Calibration: 910113 18:53

Compound No: 16

Compound Name: 1,2-Trans-dichloroethylene

Scan Number: 301

Retention Time: 12.97 min.

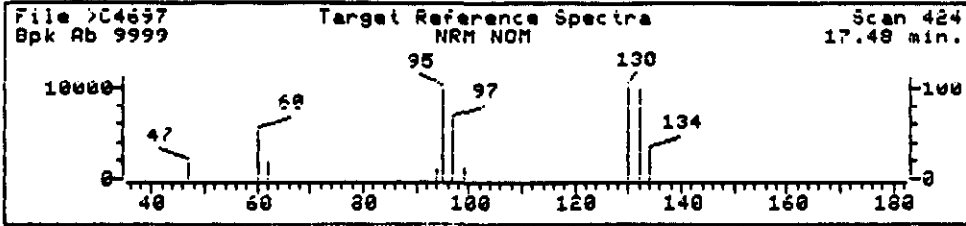
Quant Ion: 96.0

Area: 5080

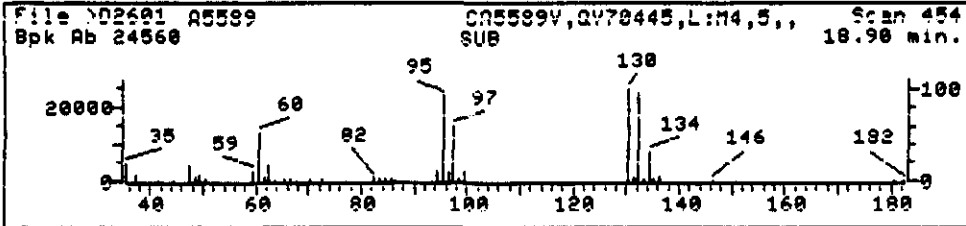
Concentration: 12.62 NG

q-value: 98

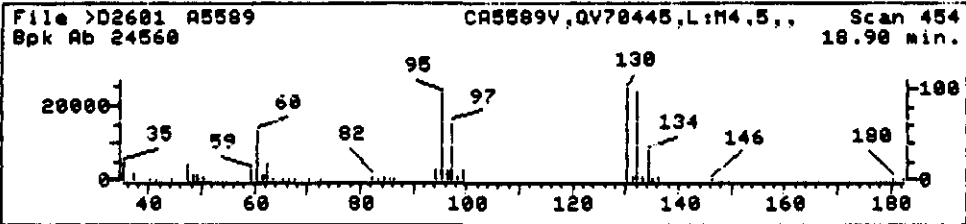
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)



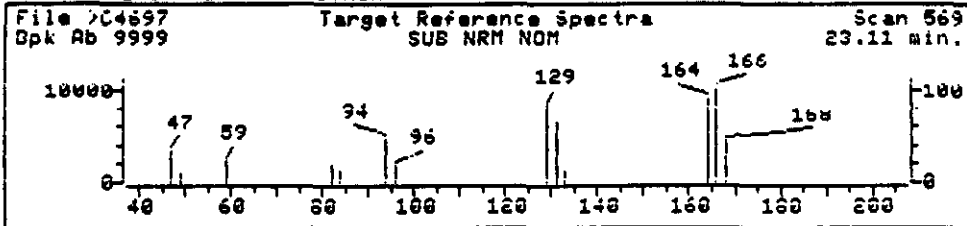
Data File: >D2601::U1
Name: A5589
Misc: CA5589V,QU70445,L:M4,5,,
Quant Time: 910114 05:11
Injected at: 910114 04:31

Quant Output File: ^D2601::AQ

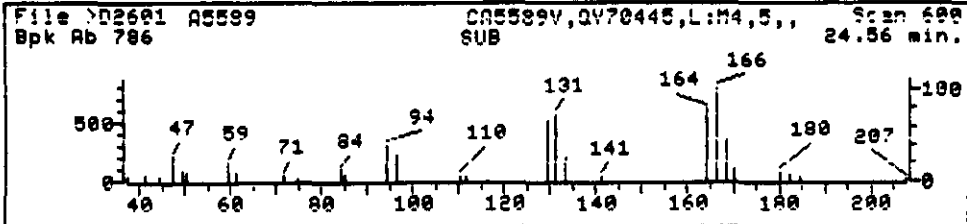
Quant ID File: ID0310::SS
Last Calibration: 910113 18:53

Compound No: 29
Compound Name: Trichloroethylene
Scan Number: 454
Retention Time: 18.90 min.
Quant Ion: 130.0
Area: 296111
Concentration: 581.63 NG
q-value: 93

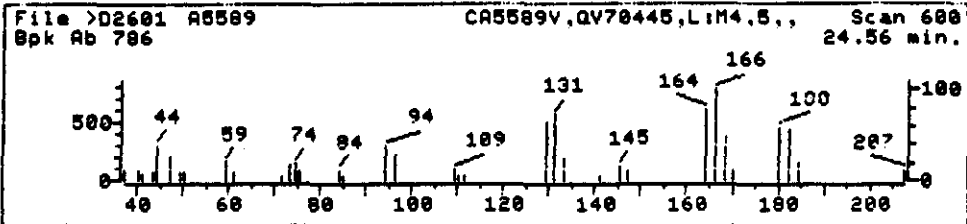
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)

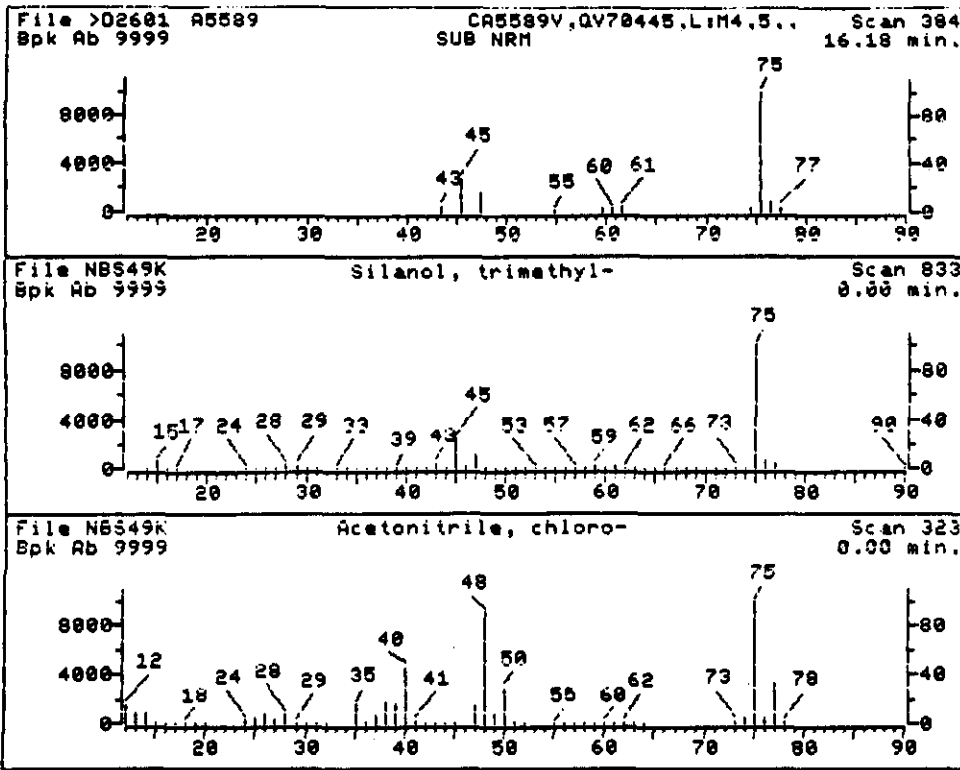


SAMPLE SPECTRUM (UNALTERED)



Data File: >D2601::U1 Quant Output File: ^D2601::AQ
 Name: A5589
 Misc: CA5589V,QV70445,L:M4,5,,
 Quant Time: 910114 05:11 Quant ID File: 100310::SS
 Injected at: 910114 04:31 Last Calibration: 910113 18:53

Compound No: 41
 Compound Name: Tetrachloroethylene
 Scan Number: 600
 Retention Time: 24.56 min.
 Quant Ion: 164.0
 Area: 7350
 Concentration: 14.16 NG
 q-value: 95



Data File: >D2601::U1
 Name: A5589
 Misc Data: CA589V, QV70445, L:M4,5,,
 RT (min): 16.18
 Scan: 384
 Area: 58372 Rank: 6
 Semi-quantitative Conc (uncorrected): 30.47 NG
 Semi-quantitative Conc (corrected): 6.09 ug/l
 Calculated using Istd: Bromochloromethane @ 11.30 minutes

- 1. Silanol, trimethyl- 90 C3H10OS1
- 2. Acetonitrile, chloro- 75 C2H2ClN

Sample file: >D2601 Spectrum #: 384
 Search speed: 2 Tilting option: S No. of ion ranges searched: 52

| | Prob. | CAS # | CUN # | RUOT | K | DK | #FLG | TILT | % | CUN | C_1 | R_1 |
|----|-------|---------|-------|--------|----|----|------|------|-----|-----|-----|-----|
| 1. | 78 | 1066406 | 4954 | NBS49K | 40 | 44 | 2 | 0 | 100 | 5 | 58 | 14 |
| 2. | 41* | 107142 | 4949 | NBS49K | 22 | 96 | 3 | 0 | 100 | 25 | 17 | 12 |

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

1A5590

Lab Name: ETC Corp.

Contract:

Lab Code:

Case No.:

SAS No.:

SUG No.:

Matrix: (soil/water) WATER

Lab Sample ID: CA559002

Sample wt/vol: 5.0 (g/mL) ML

Lab File ID: >02614

Level: (low/med) LOW

Date Received: 1/10/91

% Moisture: not dec.

Date Analyzed: 01/14/91

Column: (pack/cap) PACK

Dilution Factor: 1

CONCENTRATION UNITS:

CAS NO. LUMPOUND (ug/L or ug/Kg) ug/L U

| | | | |
|------------|----------------------------|-----|----|
| 74-87-3 | Chloromethane | 110 | 10 |
| 74-83-9 | Bromomethane | 110 | 10 |
| 75-01-4 | Vinyl Chloride | 110 | 10 |
| 75-00-3 | Chloroethane | 110 | 10 |
| 75-09-2 | Methylene Chloride | 116 | 1 |
| 67-64-1 | Acetone | 17 | 13 |
| 75-15-0 | Carbon Disulfide | 15 | 10 |
| 75-35-4 | 1,1-Dichloroethene | 15 | 10 |
| 75-34-3 | 1,1-Dichloroethane | 15 | 10 |
| 540-59-0 | 1,2-Dichloroethene (total) | 15 | 10 |
| 67-66-3 | Chloroform | 15 | 10 |
| 107-06-2 | 1,2-Dichloroethane | 15 | 10 |
| 78-93-3 | 2-Butanone | 110 | 10 |
| 71-55-6 | 1,1,1-Trichloroethane | 15 | 10 |
| 56-23-5 | Carbon Tetrachloride | 15 | 10 |
| 108-05-4 | Vinyl Acetate | 110 | 10 |
| 75-27-4 | Bromodichloromethane | 15 | 10 |
| 78-87-5 | 1,2-Dichloropropane | 15 | 10 |
| 10061-01-5 | cis-1,3-Dichloropropane | 15 | 10 |
| 79-01-6 | Trichloroethene | 15 | 10 |
| 124-48-1 | Dibromochloromethane | 15 | 10 |
| 79-00-5 | 1,1,2-Trichloroethane | 15 | 10 |
| 71-43-2 | Benzene | 15 | 10 |
| 10061-02-6 | trans-1,3-Dichloropropane | 15 | 10 |
| 75-25-2 | Bromoform | 15 | 10 |
| 108-10-1 | 4-Methyl-2-Pentanone | 110 | 10 |
| 591-78-6 | 2-Hexanone | 110 | 10 |
| 127-18-4 | Tetrachloroethene | 15 | 10 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 15 | 10 |
| 108-88-3 | Toluene | 15 | 10 |
| 108-90-7 | Chlorobenzene | 15 | 10 |
| 100-41-4 | Ethylbenzene | 15 | 10 |
| 100-42-5 | Styrene | 15 | 10 |
| 1330-20-7 | Xylene (total) | 15 | 10 |

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Lab Name: ETC CORP Contract: _____
 Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: _____
 Matrix: (soil/water) WATER Lab Sample ID: CASS90
 Sample wt/vol: 5 (g/mL) ML Lab File ID: 7D2614
 Level: (low/med) LOW Date Received: 1/10/91
 % Moisture: not dec. _____ Date Analyzed: 1/14/91
 Column: (pack/cap) PACK Dilution Factor: 1

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) <u>UG/L</u> | |
|---------|-----------------|---|--|
| | Tetrahydrofuran | 14 | |
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1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

1A5590
:

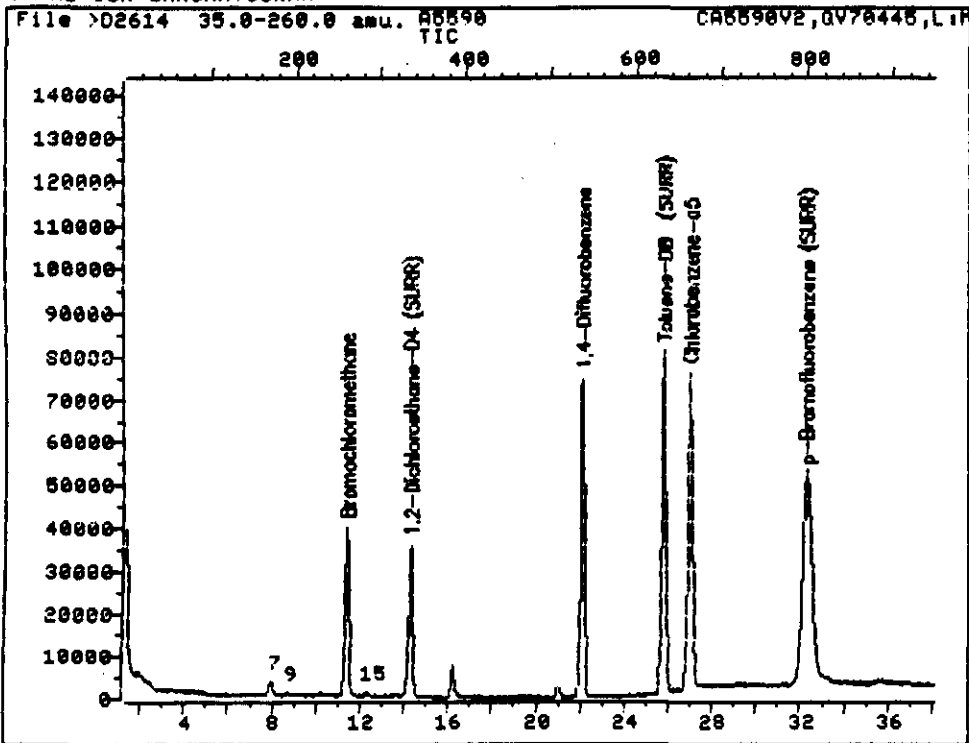
Lab Name: ETC Corp. | Laboratory | Contract:
Lab Code: | Case No.: | SAS No.: | SUB No.:
Matrix: (soil/water) WATER | Lab Sample ID: CA559002
Sample wt/vol: 5.0 (g/mL) ML | Lab File ID: >D2614
Level: (low/med) LOW | Date Received: 1/10/91
% Moisture: not dec. | Date Analyzed: 01/14/91
Column: (pack/cap) PACK | Dilution Factor: 1.0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Number TICs found: 1

| CAS NUMBER | COMPOUND NAME | RI | EST. CONC | Q |
|---------------|---------------------|-------|-----------|---|
| 01. 1066-40-6 | Silanol, trimethyl- | 16.21 | 9 | J |
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TOTAL ION CHROMATOGRAM



Data File: >D2614::U1

Quant Output File: ^D2614::AQ

Name: A5590

Misc: CA5590V2,QV70445,L:M4,5,,

Id File: ID0310::SS

Title: PP/VOA, IFB, XVOA13, XVOA9

Last Calibration: 910114 11:09

Operator ID: KB6656

Quant Time: 910114 19:05

Injected at: 910114 18:26

QUANT REPORT

Page 1

Operator ID: KB6656
 Output File: ^D2614::AQ
 Data File: >D2614::U1
 Name: A5590
 Misc: CA5590U2,QU70445,L:M4,5,,

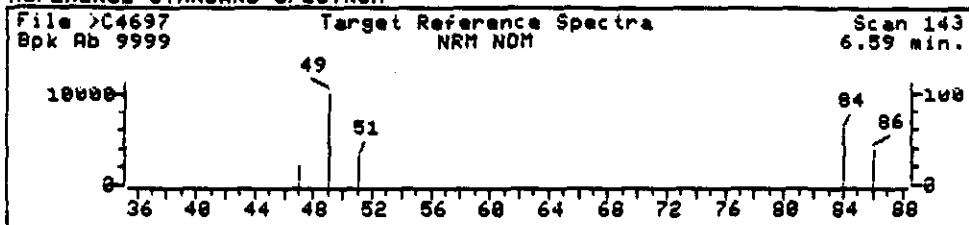
Quant Rev: 7 Quant Time: 910114 19:05
 Injected at: 910114 18:26
 Dilution Factor: 1.00000

ID File: ID0310::SS
 Title: PP/VDA, IFB, XVUA13, XVUA9
 Last Calibration: 910114 11:09

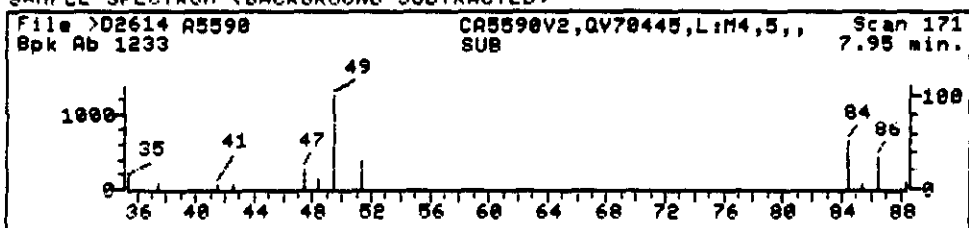
| Compound | R.T. | Scan# | Area | Conc | Units | q |
|----------------------------------|-------|-------|--------|--------|-------|-----|
| 1) *Bromochloromethane | 11.40 | 260 | 61081 | 250.00 | NG | 93 |
| 7) Methylene chloride | 7.95 | 171 | 9263 | 82.08 | NG | 98 |
| 9) Acetone | 8.73 | 191 | 5380 | 33.15 | NG | 97 |
| 15) Tetrahydrofuran | 12.33 | 284 | 3523 | 71.89 | NG | 100 |
| 18) 1,2-Dichloroethane-D4 (SURR) | 14.31 | 335 | 160940 | 282.59 | NG | 90 |
| 21) *1,4-Difluorobenzene | 22.10 | 536 | 341741 | 250.00 | NG | 99 |
| 37) *Chlorobenzene-d5 | 27.00 | 662 | 292868 | 250.00 | NG | 78 |
| 42) Toluene-D8 (SURR) | 25.79 | 631 | 353343 | 244.38 | NG | 95 |
| 46) p-Bromofluorobenzene (SURR) | 32.27 | 798 | 223537 | 246.25 | NG | 88 |

* Compound is ISTD

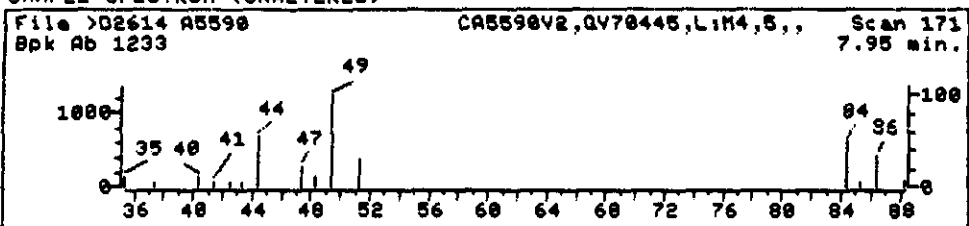
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



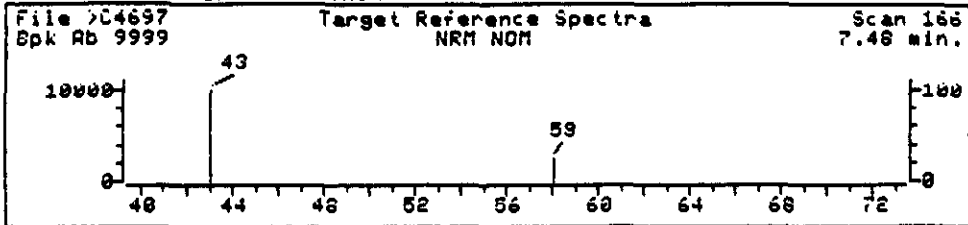
SAMPLE SPECTRUM (UNALTERED)



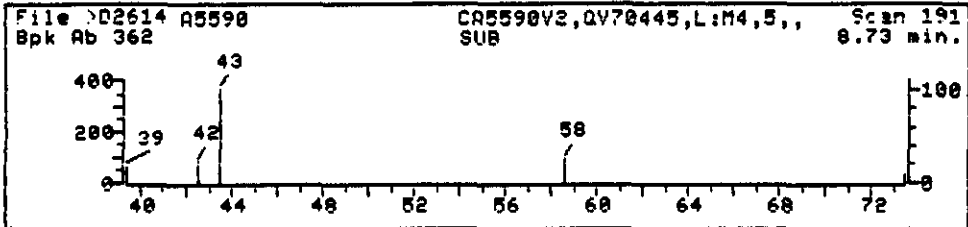
Data File: >D2614::U1 Quant Output File: ^D2614::AQ
 Name: A5590
 Misc: CA5590V2,QU70445,L:M4,5,,
 Quant Time: 910114 19:05 Quant ID File: ID0310::SS
 Injected at: 910114 18:26 Last Calibration: 910114 11:09

Compound No: 7
 Compound Name: Methylene chloride
 Scan Number: 171
 Retention Time: 7.95 min.
 Quant Ion: 84.0
 Area: 9263
 Concentration: 82.08 NG
 q-value: 98

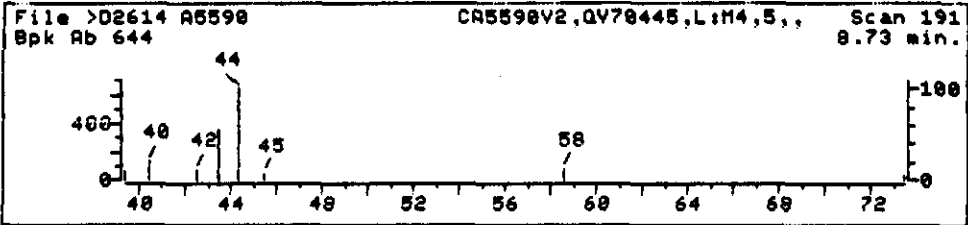
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)



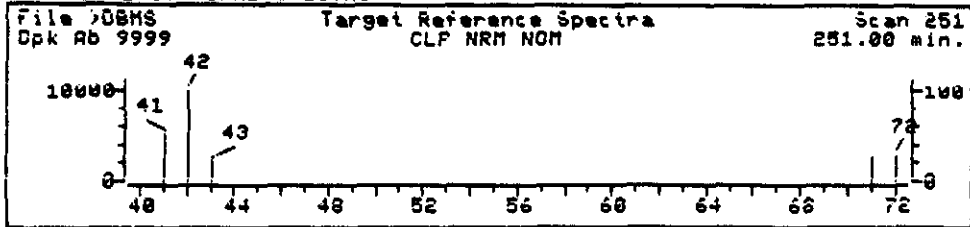
Data File: >D2614::U1
Name: A5590
Misc: CA5590V2,QV70445,L:M4,5,,
Quant Time: 910114 19:05
Injected at: 910114 18:26

Quant Output File: ^D2614::AQ

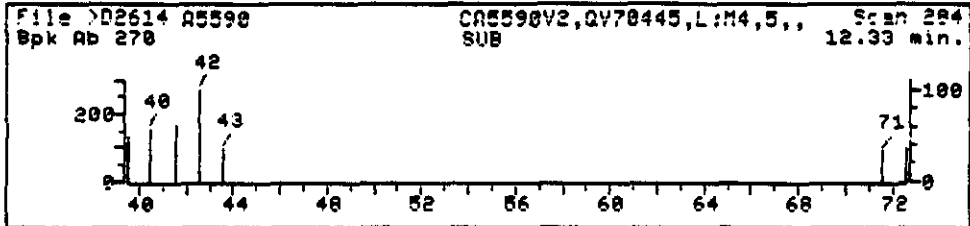
Quant ID File: ID0310::SS
Last Calibration: 910114 11:09

Compound No: 9
Compound Name: Acetone
Scan Number: 191
Retention Time: 8.73 min.
Quant Ion: 43.0
Area: 5380
Concentration: 33.15 NG
q-value: 97

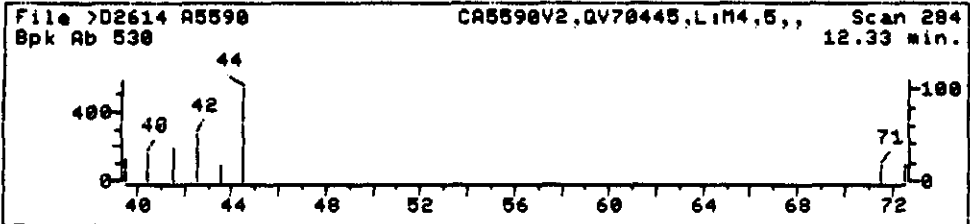
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



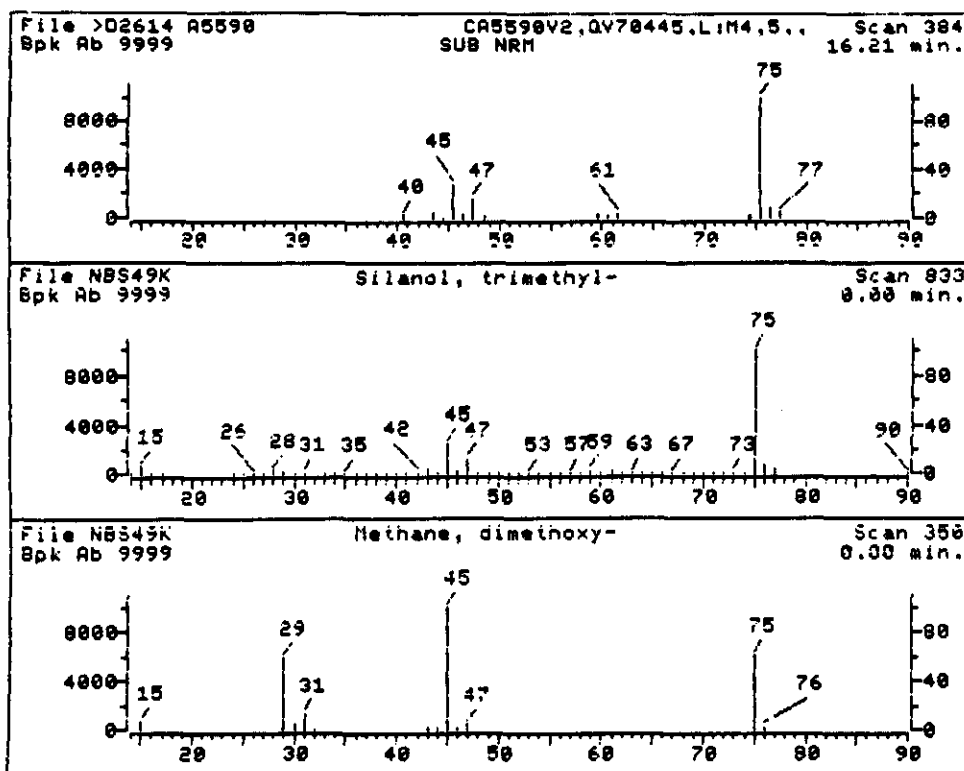
SAMPLE SPECTRUM (UNALTERED)



Data File: >D2614::U1
Name: A5590
Misc: CA5590V2,QU70445,L:M4,5,,
Quant Time: 910114 19:05
Injected at: 910114 18:26

Quant Output File: ^D2614::AQ
Quant ID File: ID0310::SS
Last Calibration: 910114 11:09

Compound No: 15
Compound Name: Tetrahydrofuran
Scan Number: 284
Retention Time: 12.33 min.
Quant Ion: 42.0
Area: 3523
Concentration: 71.89 NG
q-value: 100



Data File: >D2614::U1
 Name: A5590
 Misc Data: CA5590U2,QU70445,L:M4,S,,
 RT (min): 16.21
 Scan: 384
 Area: 83291 Rank: 4
 Semi-quantitative Conc (uncorrected): 43.98 NG
 Semi-quantitative Conc (corrected): 8.80 ug/l
 Calculated using Istd: Bromochloromethane @ 11.40 minutes

1. Silanol, trimethyl-
2. Methane, dimethoxy-

90 C3H10OS1
 76 C3H8O2

Sample file: >D2614 Spectrum #: 384
 Search speed: 2 Tilting option: S No. of ion ranges searched: 49

| Prob. | CAS # | CON # | RUUT | K | DK | #FLG | TILT | % | LUN | C_I | R_U |
|-------|-------|---------|------|--------|----|------|------|---|-----|-----|-------|
| 1. | 83 | 1066406 | 4954 | NBS49K | 61 | 25 | 2 | 0 | 100 | 0 | 5/ 21 |
| 2. | 42* | 109875 | 4953 | NBS49K | 21 | 44 | 2 | 0 | 163 | 25 | 1/ 1. |

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

CA5591

Lab Name: ETONJ

Contract:

Lab Code:

Case No.:

SAS No.:

SOG No.:

Matrix: (soil/water) WATER

Lab Sample ID: CA5591UO

Sample wt/vol: .2 (g/mL) mL

Lab File ID: 02191

Level: (low/med) LOW

Date Received: 01 10 91

% Moisture: not dec.

Date Analyzed: 01 10 91

Column: (pack/dep) PACA

Dilution Factor: 25

| CAS NO. | COMPOUND | CONCENTRATION UNITS: | |
|------------|----------------------------|----------------------|------|
| | | ug/L or ug/Kg | UG/L |
| 74-87-3 | Chloromethane | 0250 | 10 |
| 74-83-9 | Bromomethane | 0250 | 10 |
| 75-01-4 | Vinyl Chloride | 0250 | 10 |
| 75-00-3 | Chloroethane | 0250 | 10 |
| 75-09-2 | Methylene Chloride | 0130 | 10 |
| 67-64-1 | Acetone | 01600 | 1 |
| 75-15-0 | Carbon Disulfide | 0130 | 10 |
| 75-35-4 | 1,1-Dichloroethene | 0130 | 10 |
| 75-34-3 | 1,1-Dichloroethane | 0130 | 10 |
| 540-59-0 | 1,2-Dichloroethene (total) | 01100 | 1 |
| 67-66-3 | Chloroform | 0130 | 10 |
| 107-06-2 | 1,2-Dichloroethane | 0130 | 10 |
| 78-93-3 | 2-Butanone | 010000 | 12 |
| 71-55-6 | 1,1,1-Trichloroethane | 0130 | 10 |
| 56-23-5 | Carbon Tetrachloride | 0130 | 10 |
| 108-05-4 | Vinyl Acetate | 0250 | 10 |
| 75-27-4 | Bromodichloromethane | 0130 | 10 |
| 78-87-5 | 1,2-Dichloropropane | 0130 | 10 |
| 10061-01-5 | cis-1,3-Dichloropropene | 0130 | 10 |
| 79-01-6 | Trichloroethene | 060 | 10 |
| 124-48-1 | Dibromochloromethane | 0130 | 10 |
| 79-00-5 | 1,1,2-Trichloroethane | 0130 | 10 |
| 71-43-2 | Benzene | 0130 | 10 |
| 10061-02-6 | trans-1,3-Dichloropropene | 0130 | 10 |
| 75-25-2 | Bromoform | 0130 | 10 |
| 108-10-1 | 4-Methyl-2-Pentanone | 0250 | 10 |
| 591-78-6 | 2-Hexanone | 0250 | 10 |
| 127-18-4 | Tetrachloroethene | 0130 | 10 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 0130 | 10 |
| 108-88-3 | Toluene | 0260 | 1 |
| 108-90-7 | Chlorobenzene | 0130 | 10 |
| 100-41-4 | Ethylbenzene | 0130 | 10 |
| 100-42-5 | Styrene | 0130 | 10 |
| 1330-26-7 | Xylene (total) | 0130 | 10 |

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Lab Name: ETC CORP Contract: _____

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: CASS91V2

Sample wt/vol: 0.2 (g/mL) ML Lab File ID: 70291

Level: (low/med) LOW Date Received: 1/10/91

% Moisture: not dec. _____ Date Analyzed: 1/12/91

Column: (pack/cap) PACK Dilution Factor: 25

| | | | |
|---------|----------|---|---|
| CAS NO. | COMPOUND | CONCENTRATION UNITS; (ug/L or ug/Kg) <u>ug/L</u> | g |
|---------|----------|---|---|

| CAS NO. | COMPOUND | CONCENTRATION UNITS; (ug/L or ug/Kg) | g |
|---------|-----------------|---|---|
| | Tetrahydrofuran | 3200 | |
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1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

1A5591

Lab Name: ETCNS

Contract:

Lab Code:

Case No.:

SAS No.:

SDS No.:

Matrix: (soil/water) WATER

Lab Sample ID: DA559102

Sample wt/vol: .2 g/mL (μL)

Lab File ID: 00181

Level: (low/med) LOW

Date Received: 01/10/91

% Moisture: not dec.

Date Analyzed: 01/19/91

Column: (pack/cap) PACK

Dilution Factor: 25.0

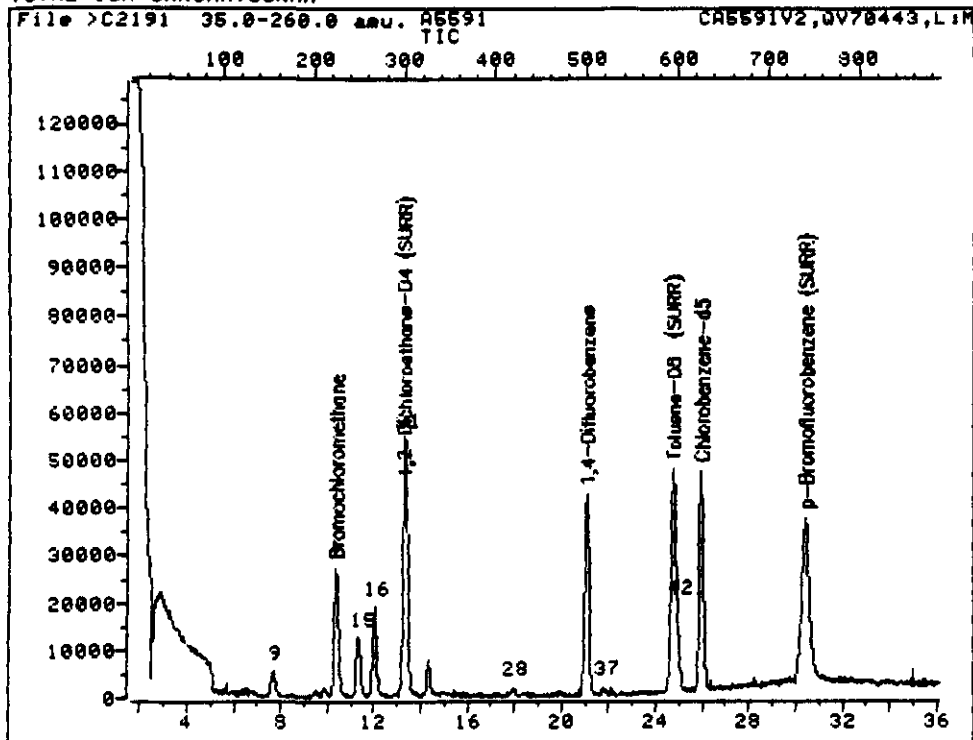
CONCENTRATION UNITS:

Number TICs found: 1

(ug/L or ug/Kg) UG/L

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC | D |
|----------------|-----------------|-------|-----------|---|
| 01. 14898-79-4 | 2-Butanol, (R)- | 14.34 | 380 | 3 |
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TOTAL ION CHROMATOGRAM



Data File: >C2191::U1 Quant Output File: ^C2191::AQ
Name: A5591
Misc: CA5591V2,QU70443,L:M4,0.20,,

Id File: IC1204::SS
Title: IFB, PP/VOA, XVOA13
Last Calibration: 910118 11:53

Operator ID: KB6656
Quant Time: 910118 17:23
Injected at: 910118 16:46

QUANT REPORT

Page 1

Operator ID: KB6656
 Output File: ^C2191::AQ
 Data File: >C2191::U1
 Name: A5591
 Misc: CA5591U2,QU70443,L:M4,0.20,,

Quant Rev: 7 Quant Time: 910118 17:23
 Injected at: 910118 16:46
 Dilution Factor: 1.00000

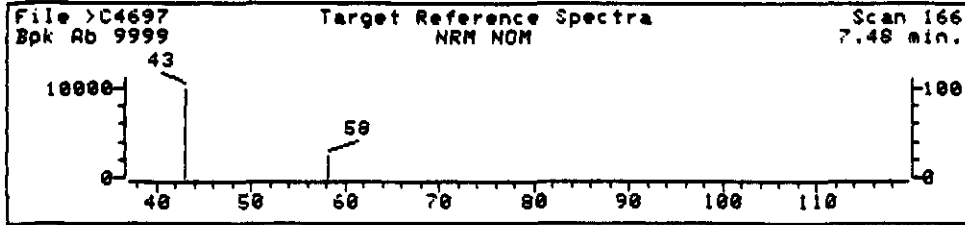
ID File: IC1204::SS
 Title: IFB, PP/VOA, XUQA13
 Last Calibration: 910118 11:53

| Compound | R.T. | Scan# | Area | Conc | Units | q |
|----------------------------------|-------|-------|--------|------------------|---------------|-----|
| 1) *Bromochloromethane | 10.39 | 225 | 53475 | 250.00 | NG | 94 |
| 9) Acetone | 7.68 | 155 | 45733 | 328.48 | NG | 98 |
| 15) Tetrahydrofuran | 11.36 | 250 | 48382 | 701.64 | NG | 100 |
| 16) 1,2-Trans-dichloroethylene | 12.02 | 267 | 54708 | 221.29 | NG | 83 |
| 18) 1,2-Dichloroethane-D4 (SURR) | 13.29 | 300 | 79156 | 228.57 | NG | 79 |
| 20) *1,4-Difluorobenzene | 21.09 | 501 | 224989 | 250.00 | NG | 91 |
| 21) Methyl ethyl ketone | 13.37 | 302 | 65141 | 2002.22 | NG | 99 |
| 28) Trichloroethylene | 17.95 | 420 | 4327 | 11.96 | NG | 74 |
| 36) *Chlorobenzene-d5 | 25.97 | 627 | 191521 | 250.00 | NG | 96 |
| 37) Methyl-iso-butyl ketone | 21.82 | 520 | 5925 | 12.63 | NG | 73 |
| 41) Toluene-D8 (SURR) | 24.73 | 595 | 228493 | 187.84 | NG | 91 |
| 42) Toluene | 24.92 | 600 | 35535 | 51.22 | NG | 95 |
| 45) p-Bromofluorobenzene (SURR) | 30.44 | 742 | 123544 | 186.94 | NG | 78 |

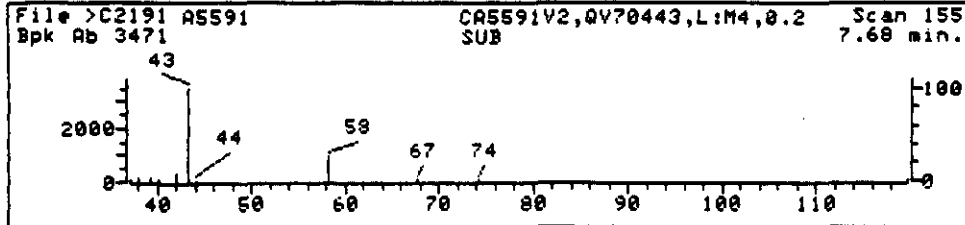
* Compound is ISTD

AP 1/25/91

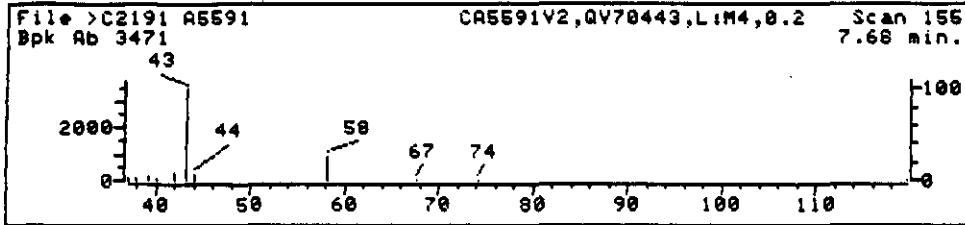
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



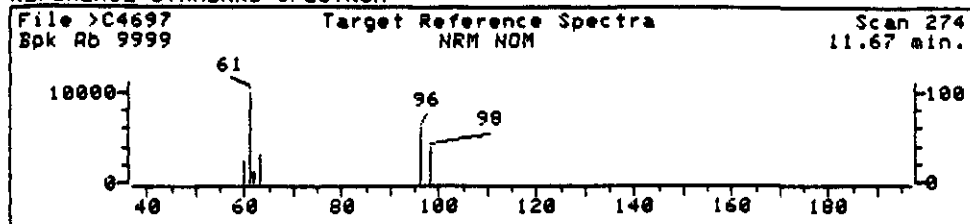
SAMPLE SPECTRUM (UNALTERED)



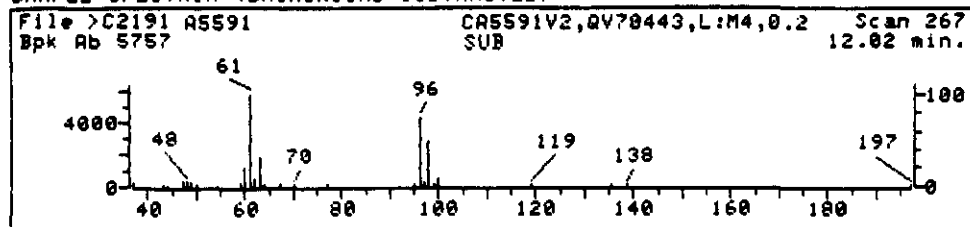
Data File: >C2191::U1 Quant Output File: ^C2191::AQ
 Name: A5591
 Misc: CA5591V2,QV70443,L:M4,0.20,,
 Quant Time: 910118 17:23 Quant ID File: IC1204::SS
 Injected at: 910118 16:46 Last Calibration: 910118 11:53

Compound No: 9
 Compound Name: Acetone
 Scan Number: 155
 Retention Time: 7.68 min.
 Quant Ion: 43.0
 Area: 45733
 Concentration: 328.48 NG
 q-value: 98

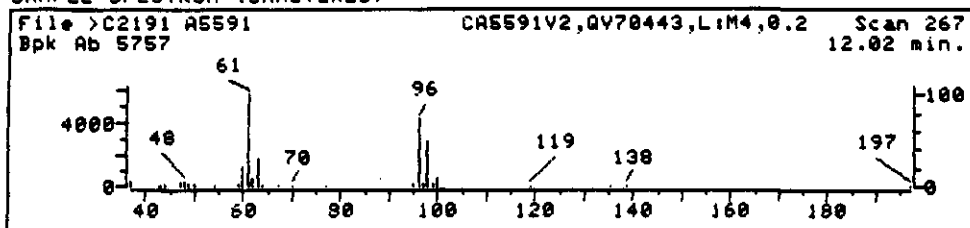
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



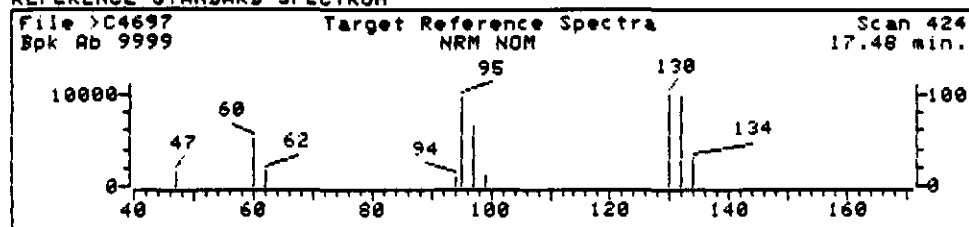
SAMPLE SPECTRUM (UNALTERED)



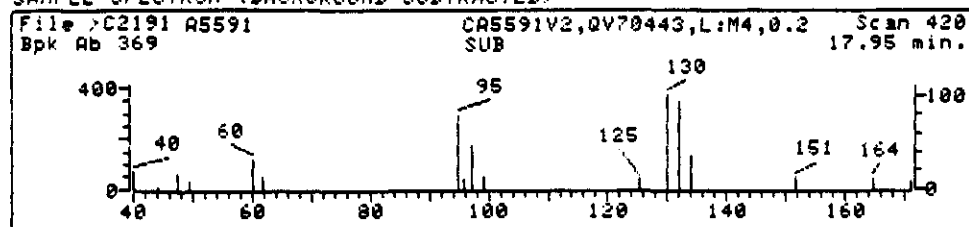
Data File: >C2191::U1 Quant Output File: ^C2191::AQ
 Name: A5591
 Misc: CA5591V2, QV70443, L:M4, 0.20,,
 Quant Time: 910118 17:23 Quant ID File: IC1204::SS
 Injected at: 910118 16:46 Last Calibration: 910118 11:53

Compound No: 16
 Compound Name: 1,2-Trans-dichloroethylene
 Scan Number: 267
 Retention Time: 12.02 min.
 Quant Ion: 96.0
 Area: 54708
 Concentration: 221.29 NG
 q-value: 83

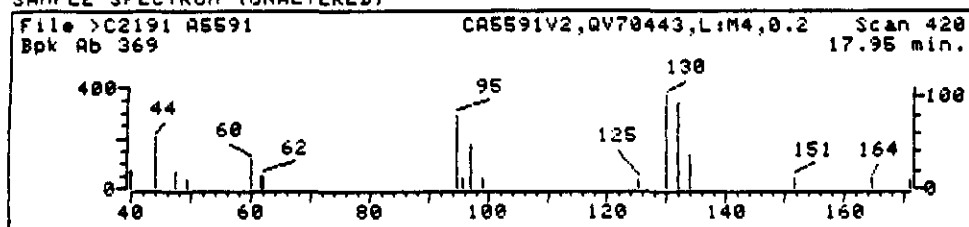
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



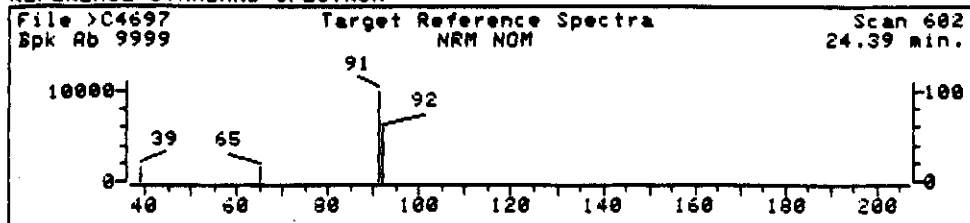
SAMPLE SPECTRUM (UNALTERED)



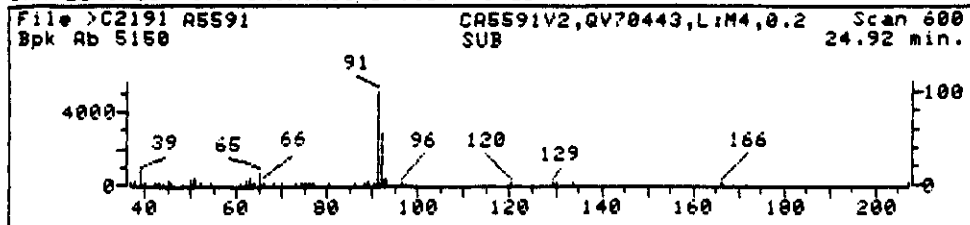
Data File: >C2191::U1 Quant Output File: ^C2191::AQ
Name: A5591
Misc: CA5591V2,QU70443,L:M4,0.20,,
Quant Time: 910118 17:23 Quant ID File: IC1204::SS
Injected at: 910118 16:46 Last Calibration: 910118 11:53

Compound No: 28
Compound Name: Trichloroethylene
Scan Number: 420
Retention Time: 17.95 min.
Quant Ion: 130.0
Area: 4327
Concentration: 11.96 NG
q-value: 74

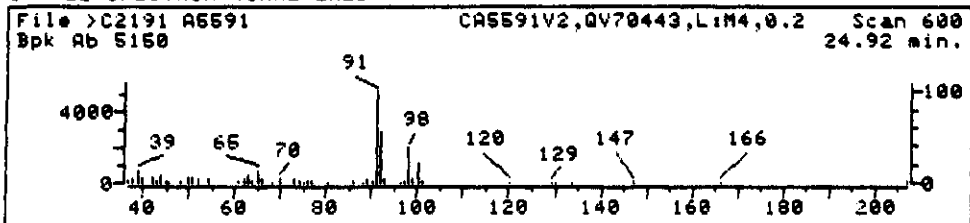
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



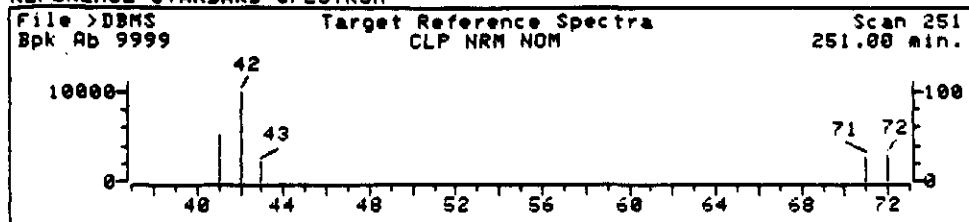
SAMPLE SPECTRUM (UNALTERED)



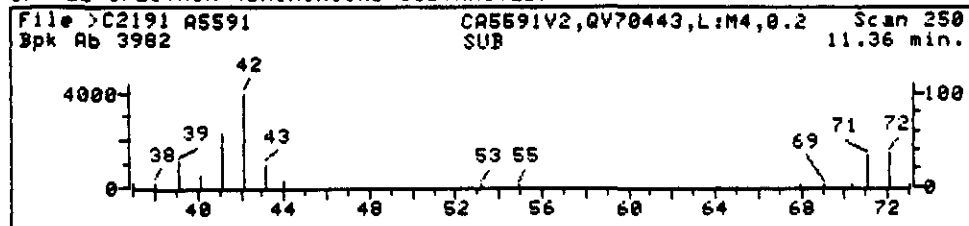
Data File: >C2191::U1 Quant Output File: ^C2191::AQ
 Name: A5591
 Misc: CA5591V2, QV70443, L:M4, 0.20,,
 Quant Time: 910118 17:23 Quant ID File: IC1204::SS
 Injected at: 910118 16:46 Last Calibration: 910118 11:53

Compound No: 42
 Compound Name: Toluene
 Scan Number: 600
 Retention Time: 24.92 min.
 Quant Ion: 92.0
 Area: 35535
 Concentration: 51.22 NG
 q-value: 95

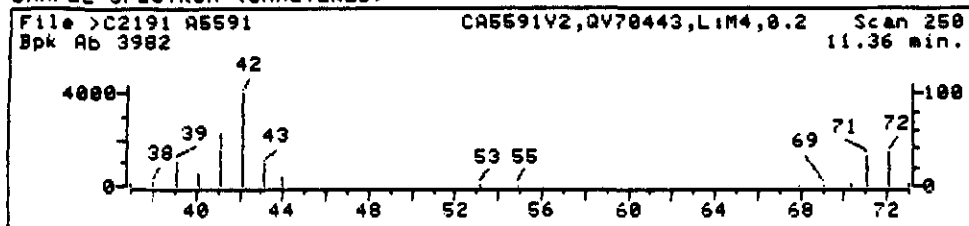
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)

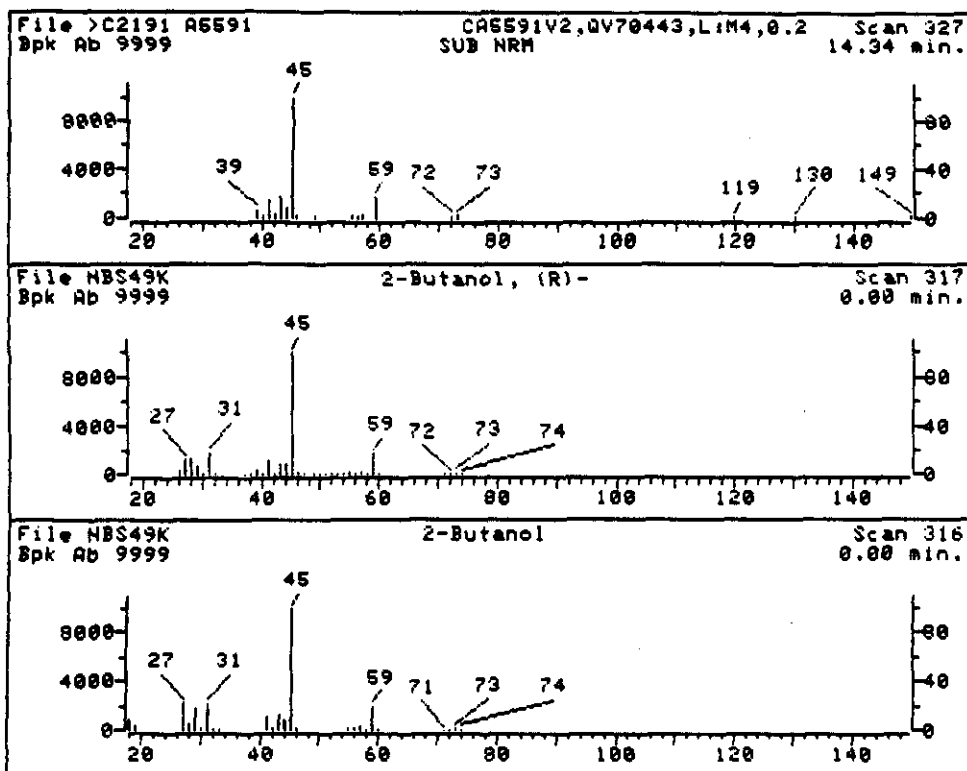


SAMPLE SPECTRUM (UNALTERED)



Data File: >C2191::U1 Quant Output File: ^C2191::AQ
 Name: A5591
 Misc: CA5591V2, QV70443, L:M4, 0.20,,
 Quant Time: 910118 17:23 Quant ID File: IC1204::SS
 Injected at: 910118 16:46 Last Calibration: 910118 11:53

Compound No: 15
 Compound Name: Tetrahydrofuran
 Scan Number: 250
 Retention Time: 11.36 min.
 Quant Ion: 42.0
 Area: 48382
 Concentration: 701.64 NG
 q-value: 100



Data File: >C2191::U1
 Name: A5591
 Misc Data: CA5591U2,QU70443,L:M4,0.20,,
 RT (min): 14.34
 Scan: 327
 Area: 99574 Rank: 7
 Semi-quantitative Conc (uncorrected): 75.16 NG
 Semi-quantitative Conc (corrected): 375.81 ug/l
 Calculated using Istd: Bromochloromethane @ 10.39 minutes

- 1. 2-Butanol, (R)- 74 C4H100
- 2. 2-Butanol 74 C4H100

Sample file: >C2191 Spectrum #: 327
 Search speed: 2 Tilting option: S No. of ion ranges searched: 48

| | Prob. | CAS # | CON # | ROOT | K | DK | #FLG | TILT | % | CON | C_I | P_ID |
|----|-------|----------|-------|--------|----|----|------|------|----|-----|-----|------|
| 1. | 76 | 14898794 | 1716 | NBS49K | 43 | 37 | 0 | 0 | 84 | 10 | 45 | 24 |
| 2. | 70 | 78922 | 1715 | NBS49K | 49 | 34 | 1 | 0 | 81 | 10 | 42 | 18 |

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

1A5591

Lab Name: ETCNJ

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.:

Matrix: (soil/water) WATER

Lab Sample ID: CA559102

Sample wt/vol: .1 (g/mL) ML

Lab File ID: 02197

Level: low/med LOW

Date Received: 01-10-91

% Moisture: not dec.

Date Analyzed: 01/18/91

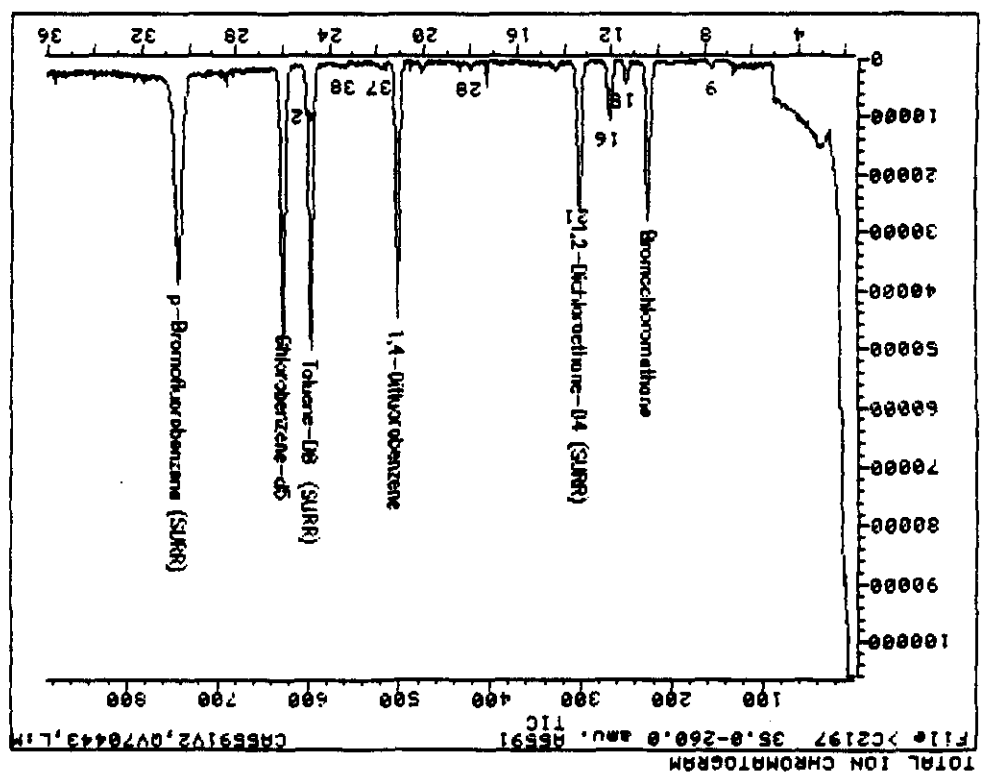
Column: (pack/osp) PACK

Dilution Factor: 50

CONCENTRATION UNITS:

| CAS NO. | COMPOUND | (ug/L or ug/Kg) | UG/L | Q |
|------------|----------------------------|-----------------|------|---|
| 74-87-3 | Chloromethane | 1500 | 10 | |
| 74-87-9 | Bromomethane | 1500 | 10 | |
| 75-01-4 | Vinyl Chloride | 1500 | 10 | |
| 75-00-3 | Chloroethane | 1500 | 10 | |
| 75-09-2 | Methylene Chloride | 1250 | 10 | |
| 67-64-1 | Acetone | 1910 | | |
| 75-15-0 | Carbon Disulfide | 1250 | 10 | |
| 75-35-4 | 1,1-Dichloroethene | 1250 | 10 | |
| 75-34-3 | 1,1-Dichloroethane | 1250 | 10 | |
| 940-99-0 | 1,2-Dichloroethene (total) | 11100 | | |
| 67-66-3 | Chloroform | 1250 | 10 | |
| 107-06-2 | 1,2-Dichloroethane | 1250 | 10 | |
| 78-93-3 | 2-Butanone | 14400 | | |
| 71-55-6 | 1,1,1-Trichloroethane | 1250 | 10 | |
| 96-23-5 | Carbon Tetrachloride | 1250 | 10 | |
| 108-05-4 | Vinyl Acetate | 1500 | 10 | |
| 75-27-4 | Bromodichloromethane | 1250 | 10 | |
| 78-87-5 | 1,2-Dichloropropane | 1250 | 10 | |
| 10061-01-5 | cis-1,3-Dichloropropene | 1250 | 10 | |
| 79-01-6 | Trichloroethene | 180 | 10 | |
| 124-48-1 | Dibromochloromethane | 1250 | 10 | |
| 79-00-5 | 1,1,2-Trichloroethane | 1250 | 10 | |
| 71-43-2 | Benzene | 1250 | 10 | |
| 10061-02-6 | trans-1,3-Dichloropropene | 1250 | 10 | |
| 75-25-2 | Bromoform | 1250 | 10 | |
| 108-10-1 | 4-Methyl-2-Pentanone | 1500 | 10 | |
| 591-78-6 | 2-Hexanone | 1500 | 10 | |
| 127-18-4 | Tetrachloroethene | 1250 | 10 | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 1250 | 10 | |
| 108-88-3 | Toluene | 1110 | 10 | |
| 108-90-7 | Chlorobenzene | 1250 | 10 | |
| 100-41-4 | Ethylbenzene | 1250 | 10 | |
| 100-42-5 | Styrene | 1250 | 10 | |
| 1330-20-7 | Xylene (total) | 1250 | 10 | |

Data File: <C2197>:U1
 Name: A5591
 Misc: C85591V2, QV70443, L:M4, 0.1,
 ID File: IC1204:SS
 Title: IFB, PP/UA, XUD413
 Last Calibration: 910118 11:53
 Operator ID: KB656
 Quant Time: 910118 22:23
 Injected at: 910118 21:46



QUANT REPORT

Page 1

Operator ID: KB6656
 Output File: ^C2197::AQ
 Data File: >C2197::U1
 Name: A5591
 Misc: CA5591U2,QU70443,L:M4,0.1,,

Quant Rev: 7 Quant Time: 910118 22:23
 Injected at: 910118 21:46
 Dilution Factor: 1.00000

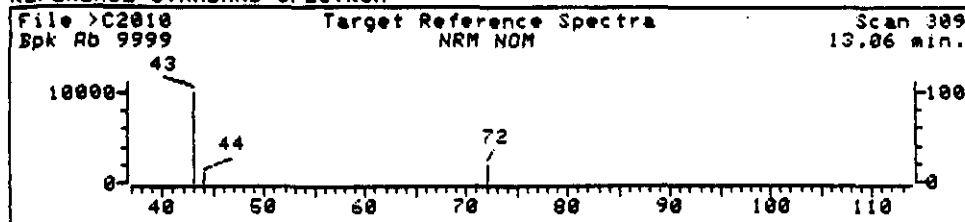
ID File: IC1204::SS
 Title: IFB, PP/VOA, XUQA13
 Last Calibration: 910118 11:53

| | Compound | R.T. | Scan# | Area | Conc | Units | g |
|-----|------------------------------|-------|-------|--------|------------------|---------------|-----|
| 1) | *Bromochloromethane | 10.38 | 227 | 56077 | 250.00 | NG | 99 |
| 9) | Acetone | 7.71 | 158 | 13271 | 90.90 | NG | 98 |
| 15) | Tetrahydrofuran | 11.35 | 252 | 15067 | 208.36 | NG | 100 |
| 16) | 1,2-Trans-dichloroethylene | 12.05 | 270 | 29039 | 112.01 | NG | 81 |
| 18) | 1,2-Dichloroethane-D4 (SURR) | 13.33 | 303 | 82836 | 228.09 | NG | 83 |
| 20) | *1,4-Difluorobenzene | 21.08 | 503 | 237252 | 250.00 | NG | 91 |
| 21) | Methyl ethyl ketone | 13.37 | 304 | 14984 | 436.75 | NG | 98 |
| 28) | Trichloroethylene | 17.98 | 423 | 3036 | 7.96 | NG | 81 |
| 36) | *Chlorobenzene-d5 | 25.93 | 628 | 191053 | 250.00 | NG | 99 |
| 37) | Methyl-iso-butyl ketone | 21.78 | 521 | 5403 | 11.54 | NG | 94 |
| 38) | 2-Hexanone | 23.33 | 561 | 2369 | 4.77 | NG | 94 |
| 41) | Toluene-D8 (SURR) | 24.76 | 598 | 237970 | 196.11 | NG | 96 |
| 42) | Toluene | 24.96 | 603 | 7684 | 11.10 | NG | 95 |
| 45) | p-Bromofluorobenzene (SURR) | 30.44 | 744 | 128537 | 194.97 | NG | 78 |

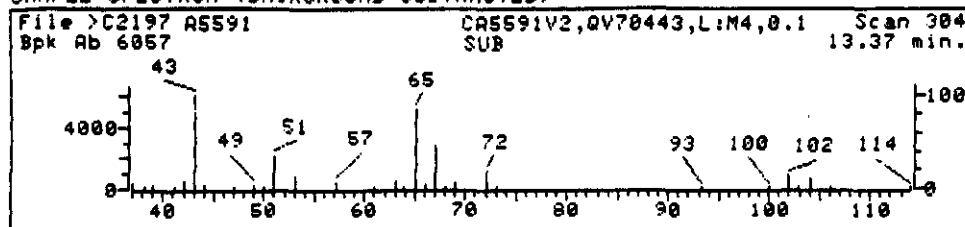
* Compound is ISTD

AP 1/25/01

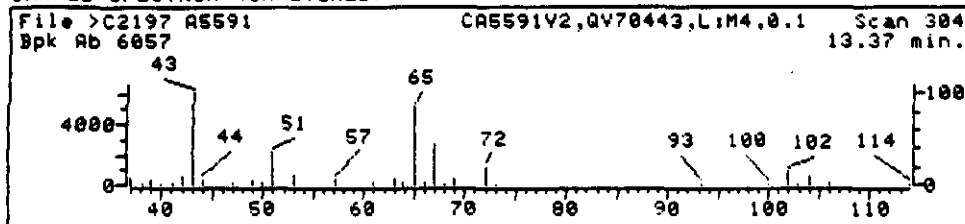
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)



Data File: >C2197::U1 Quant Output File: ^C2197::AQ
 Name: A5591
 Misc: CA5591V2, QV70443, L:M4, 0.1,,
 Quant Time: 910118 22:23 Quant ID File: IC1204::SS
 Injected at: 910118 21:46 Last Calibration: 910118 11:53

Compound No: 21
 Compound Name: Methyl ethyl ketone
 Scan Number: 304
 Retention Time: 13.37 min.
 Quant Ion: 72.0
 Area: 14984
 Concentration: 436.75 NG
 q-value: 98

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

1A5592

Lab Name: ETC Corp.

Contract:

Lab Code:

Case No.:

SAS No.:

SUG No.:

Matrix: (soil/water) WATER

Lab Sample ID: CA559202

Sample wt/vol: .1 (g/mL) ML

Lab File ID: >02616

Level: (low/med) LOW

Date Received: 1/8/91

% Moisture: not dec.

Date Analyzed: 01/14/91

Column: (pack/cap) PACK

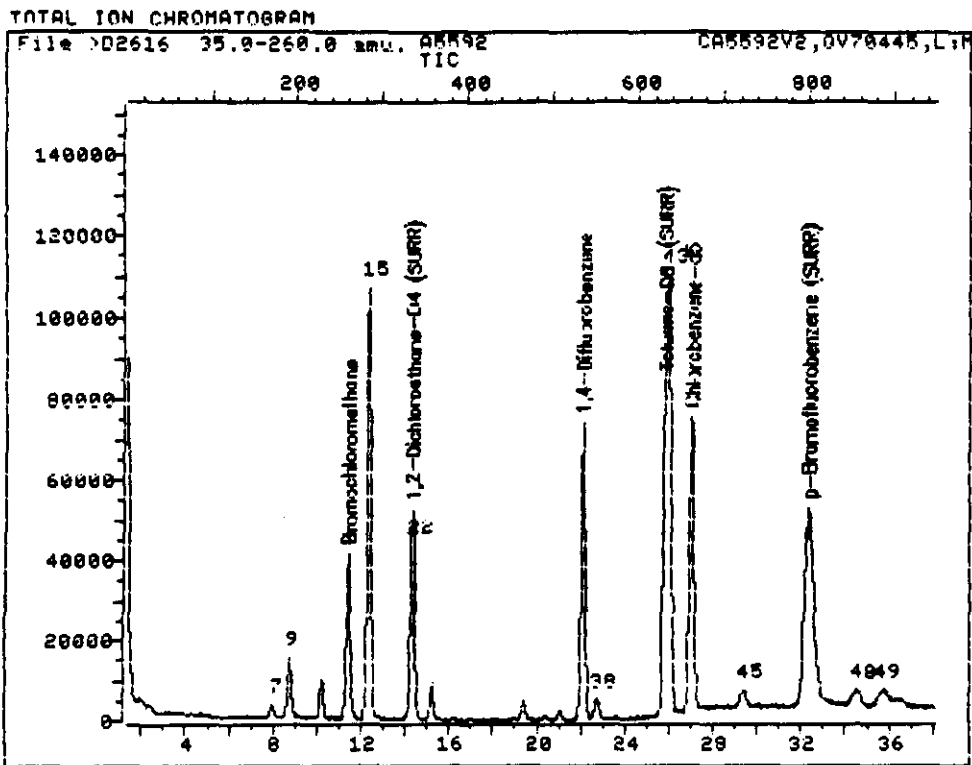
Dilution Factor: 50

CONCENTRATION UNITS:
(ug/L or ug/kg) ug/L

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/kg) | ug/L | U |
|------------|----------------------------|---|------|----|
| 74-87-3 | Chloromethane | 1500 | | 1U |
| 74-83-9 | Bromomethane | 1500 | | 1U |
| 75-01-4 | Vinyl Chloride | 1500 | | 1U |
| 75-00-3 | Chloroethane | 1500 | | 1U |
| 75-09-2 | Methylene Chloride | 1770 | | 1 |
| 67-64-1 | Acetone | 17400 | | 1X |
| 75-15-0 | Carbon Disulfide | 1250 | | 1U |
| 75-35-4 | 1,1-Dichloroethene | 1250 | | 1U |
| 75-34-3 | 1,1-Dichloroethane | 1250 | | 1U |
| 540-59-0 | 1,2-Dichloroethene (total) | 1250 | | 1U |
| 67-66-3 | Chloroform | 1250 | | 1U |
| 107-06-2 | 1,2-Dichloroethane | 1250 | | 1U |
| 78-93-3 | 2-Butanone | 17000 | | 1X |
| 71-55-6 | 1,1,1-Trichloroethane | 1250 | | 1U |
| 56-23-5 | Carbon Tetrachloride | 1250 | | 1U |
| 108-05-4 | Vinyl Acetate | 1500 | | 1U |
| 75-27-4 | Bromodichloromethane | 1250 | | 1U |
| 78-87-5 | 1,2-Dichloropropane | 1250 | | 1U |
| 10061-01-5 | cis-1,3-Dichloropropene | 1250 | | 1U |
| 79-01-6 | Trichloroethene | 1250 | | 1U |
| 124-48-1 | Dibromochloromethane | 1250 | | 1U |
| 79-00-5 | 1,1,2-Trichloroethane | 1250 | | 1U |
| 71-43-2 | Benzene | 1250 | | 1U |
| 10061-02-6 | trans-1,3-Dichloropropene | 1250 | | 1U |
| 75-25-2 | Bromoform | 1250 | | 1U |
| 108-10-1 | 4-Methyl-2-Pentanone | 1400 | | 1U |
| 591-78-6 | 2-Hexanone | 1500 | | 1U |
| 127-18-4 | Tetrachloroethene | 1250 | | 1U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 1250 | | 1U |
| 108-88-3 | Toluene | 13200 | | 1E |
| 108-90-7 | Chlorobenzene | 1250 | | 1U |
| 100-41-4 | Ethylbenzene | 1160 | | 1U |
| 100-42-5 | Styrene | 1250 | | 1U |
| 1330-20-7 | Xylene (total) | 1300 | | 1 |

CA
1-29-91

CA
1-29-91



Data File: >D2616::U1

Quant Output File: ^D2616::AQ

Name: A5592

Misc: CA5592V2,QU70445,L:M4,.10,,

Id File: ID0310::SS

Title: PP/VDA, IFB, XVDA13, XVDA9

Last Calibration: 910114 11:09

Operator ID: KB6656

Quant Time: 910114 20:35

Injected at: 910114 19:56

QUANT REPORT

Page 1

Operator ID: KB6656
 Output File: ^D2616::AQ
 Data File: >D2616::U1
 Name: A5592
 Misc: CA5592U2,QU7U445,L:M4,.10,,

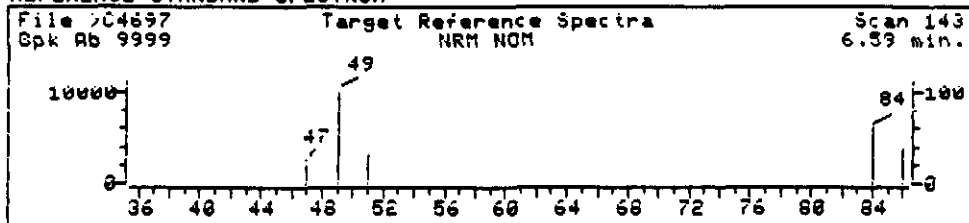
Quant Rev: 7 Quant Time: 910114 20:35
 Injected at: 910114 19:56
 Dilution Factor: 1.00000

ID File: IDU310::SS
 Title: PP/VDA, IFB, XUDA13, XUDA9
 Last Calibration: 910114 11:09

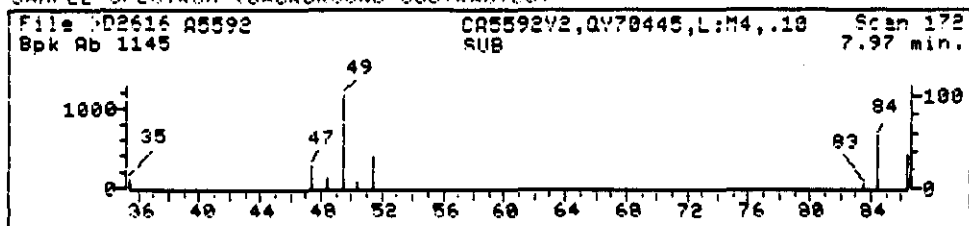
| | Compound | R.T. | Scan# | Area | Conc | Units | q |
|-----|------------------------------|-------|-------|--------|---------|-------|-----|
| 1) | *Bromochloromethane | 11.42 | 261 | 63078 | 250.00 | NG | 94 |
| 7) | Methylene chloride | 7.97 | 172 | 8940 | 76.71 | NG | 96 |
| 9) | Acetone | 8.74 | 192 | 123935 | 739.56 | NG | 92 |
| 15) | Tetrahydrofuran | 12.55 | 285 | 381057 | 7529.50 | NG | 100 |
| 18) | 1,2-Dichloroethane-D4 (SURR) | 14.33 | 336 | 183830 | 312.56 | NG | 93 |
| 21) | *1,4-Difluorobenzene | 22.08 | 536 | 341147 | 250.00 | NG | 96 |
| 22) | Methyl ethyl ketone | 14.40 | 338 | 31639 | 700.79 | NG | 96 |
| 37) | *Chlorobenzene-d5 | 27.01 | 663 | 293282 | 250.00 | NG | 74 |
| 38) | Methyl-iso-butyl ketone | 22.78 | 554 | 17132 | 39.82 | NG | 78 |
| 42) | Toluene-D8 (SURR) | 25.80 | 632 | 353499 | 244.14 | NG | 94 |
| 43) | Toluene | 26.01 | 637 | 261863 | 320.77 | NG | 98 |
| 45) | Ethylbenzene | 29.42 | 725 | 8298 | 16.32 | NG | 80 |
| 46) | p-Bromofluorobenzene (SURR) | 32.33 | 800 | 222953 | 245.26 | NG | 84 |
| 48) | m-Xylene | 34.58 | 858 | 17306 | 26.72 | NG | 94 |
| 49) | o+p-Xylenes | 35.71 | 887 | 18425 | 30.49 | NG | 85 |

* Compound is ISTD

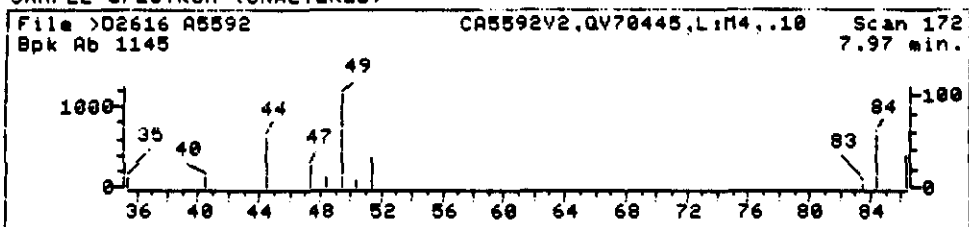
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



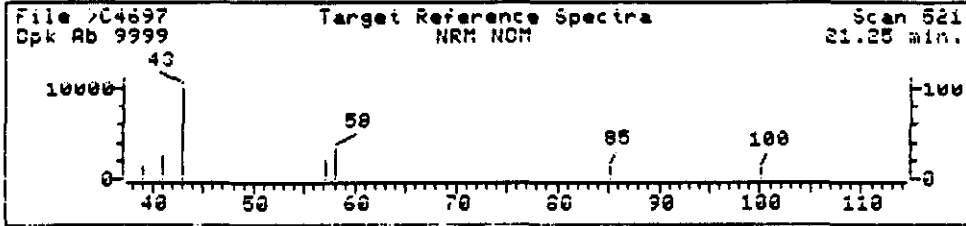
SAMPLE SPECTRUM (UNALTERED)



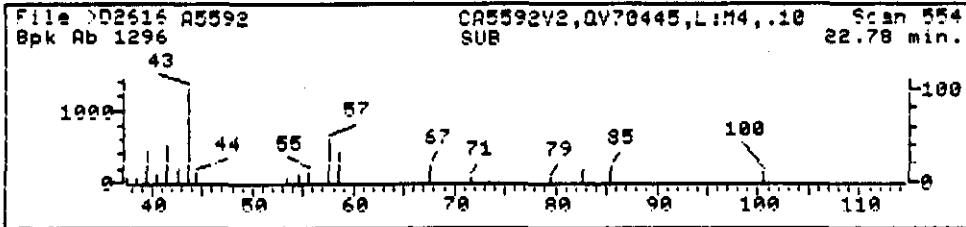
Data File: >D2616::U1 Quant Output File: >D2616::AQ
 Name: A5592
 Misc: CA5592V2,QV70445,L:M4,.10,,
 Quant Time: 910114 20:35 Quant ID File: 100310::SS
 Injected at: 910114 19:56 Last Calibration: 910114 11:09

Compound No: 7
 Compound Name: Methylene chloride
 Scan Number: 172
 Retention Time: 7.97 min.
 Quant Ion: 84.0
 Area: 8940
 Concentration: 76.71 NG
 q-value: 96

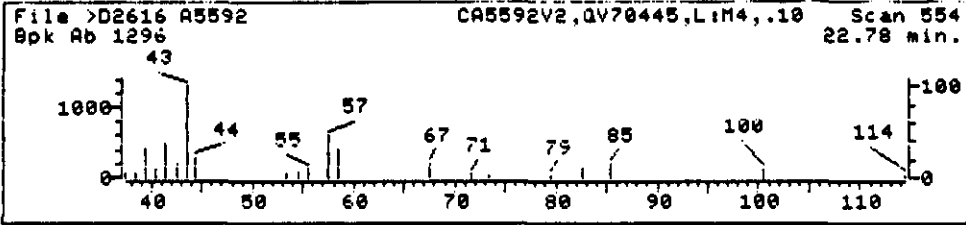
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



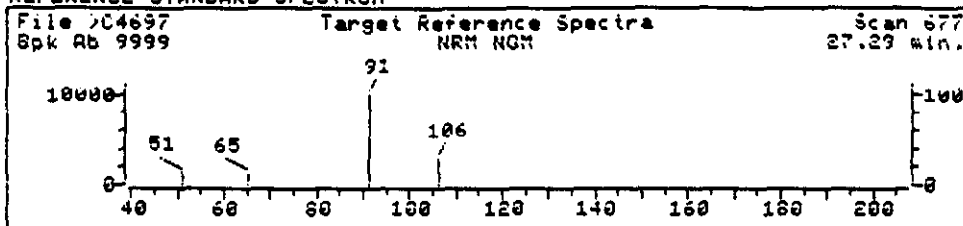
SAMPLE SPECTRUM (UNALTERED)



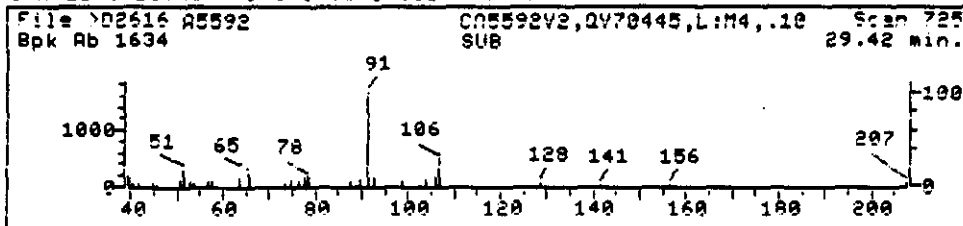
Data File: >D2616::U1 Quant Output File: ^D2616::AQ
 Name: A5592
 Misc: CA5592V2,QV70445,L:M4,.10,,
 Quant Time: 910114 20:35 Quant ID File: 100310::SS
 Injected at: 910114 19:56 Last Calibration: 910114 11:09

Compound No: 38
 Compound Name: Methyl-iso-butyl ketone
 Scan Number: 554
 Retention Time: 22.78 min.
 Quant Ion: 43.0
 Area: 17132
 Concentration: 39.82 NG
 q-value: 78

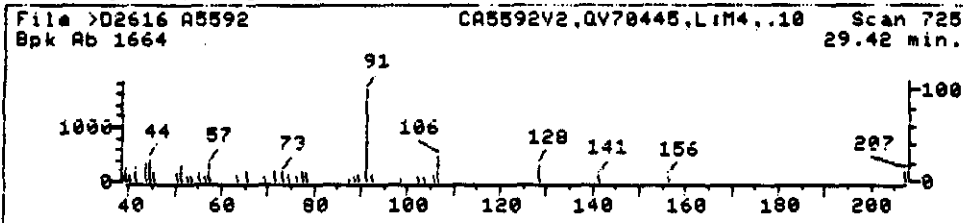
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



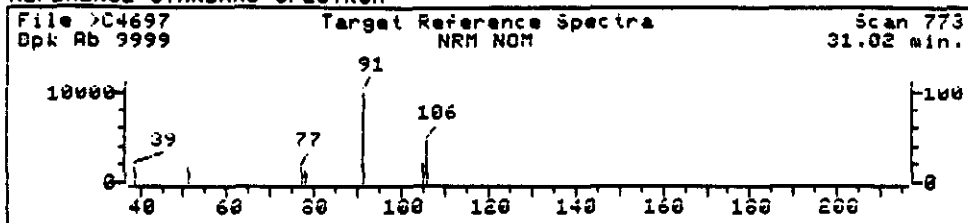
SAMPLE SPECTRUM (UNALTERED)



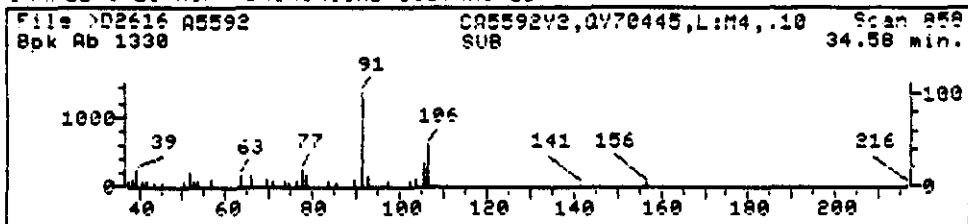
Data File: >D2616::U1 Quant Output File: ^D2616::AQ
 Name: A5592
 Misc: CA5592V2,QV70445,L:M4,.10,,
 Quant Time: 910114 20:35 Quant ID File: 100310::SS
 Injected at: 910114 19:56 Last Calibration: 910114 11:09

Compound No: 45
 Compound Name: Ethylbenzene
 Scan Number: 725
 Retention Time: 29.42 min.
 Quant Ion: 106.0
 Area: 8298
 Concentration: 16.32 NG
 q-value: 80

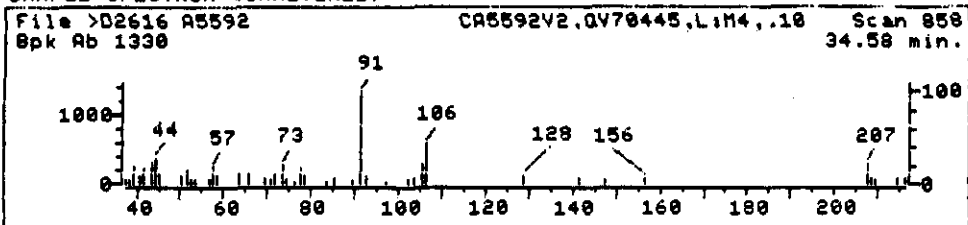
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



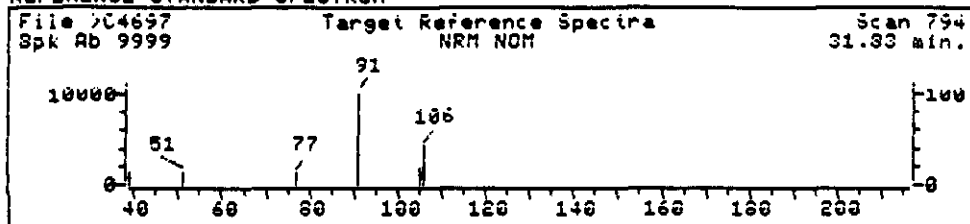
SAMPLE SPECTRUM (UNALTERED)



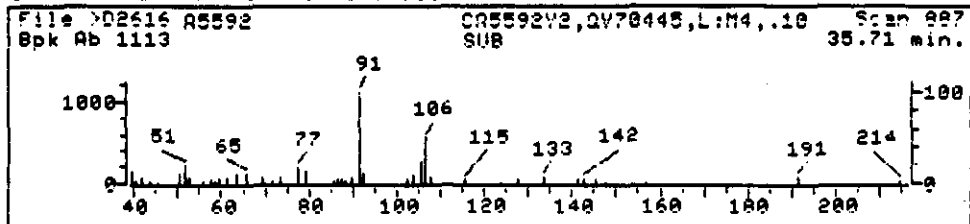
Data File: >D2616::U1 Quant Output File: ^D2616::AQ
 Name: A5592
 Misc: CA5592V2,QV70445,L:M4,.10,,
 Quant Time: 910114 20:35 Quant ID File: 100310::SS
 Injected at: 910114 19:56 Last Calibration: 910114 11:09

Compound No: 48
 Compound Name: m-Xylene
 Scan Number: 858
 Retention Time: 34.58 min.
 Quant Ion: 106.0
 Area: 17306
 Concentration: 26.72 NG
 q-value: 99

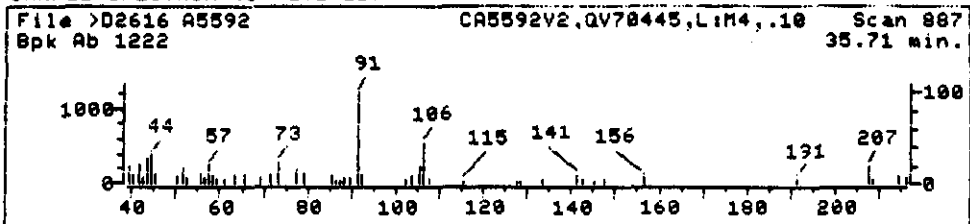
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



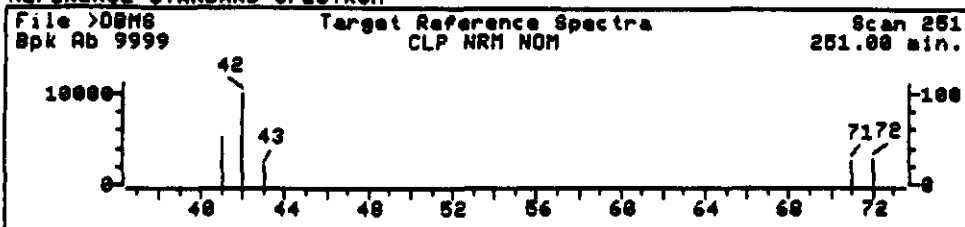
SAMPLE SPECTRUM (UNALTERED)



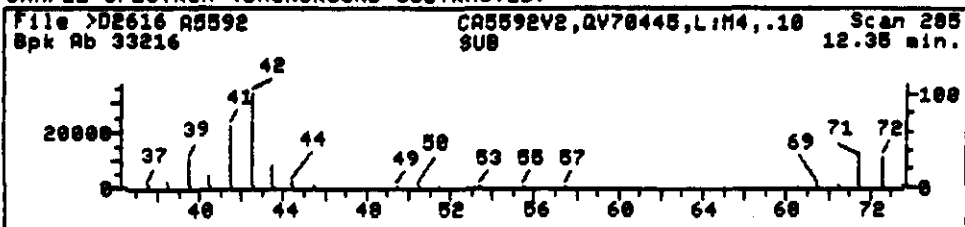
Data File: >D2616::U1 Quant Output File: ^D2616::AQ
 Name: A5592
 Misc: CA5592V2,QV70445,L:M4,.10,,
 Quant Time: 910114 20:35 Quant ID File: 100310::S5
 Injected at: 910114 19:56 Last Calibration: 910114 11:09

Compound No: 49
 Compound Name: o+p-Xylenes
 Scan Number: 887
 Retention Time: 35.71 min.
 Quant Ion: 106.0
 Area: 18425
 Concentration: 30.49 NG
 q-value: 85

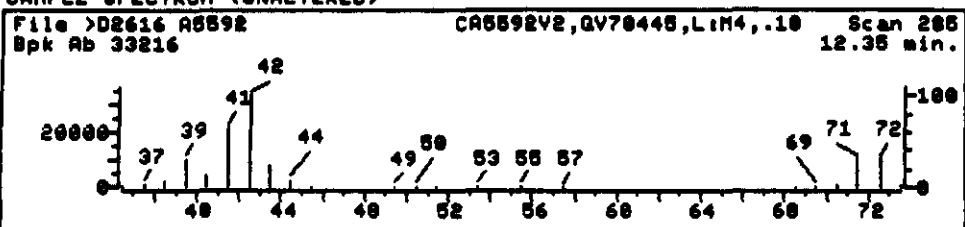
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)

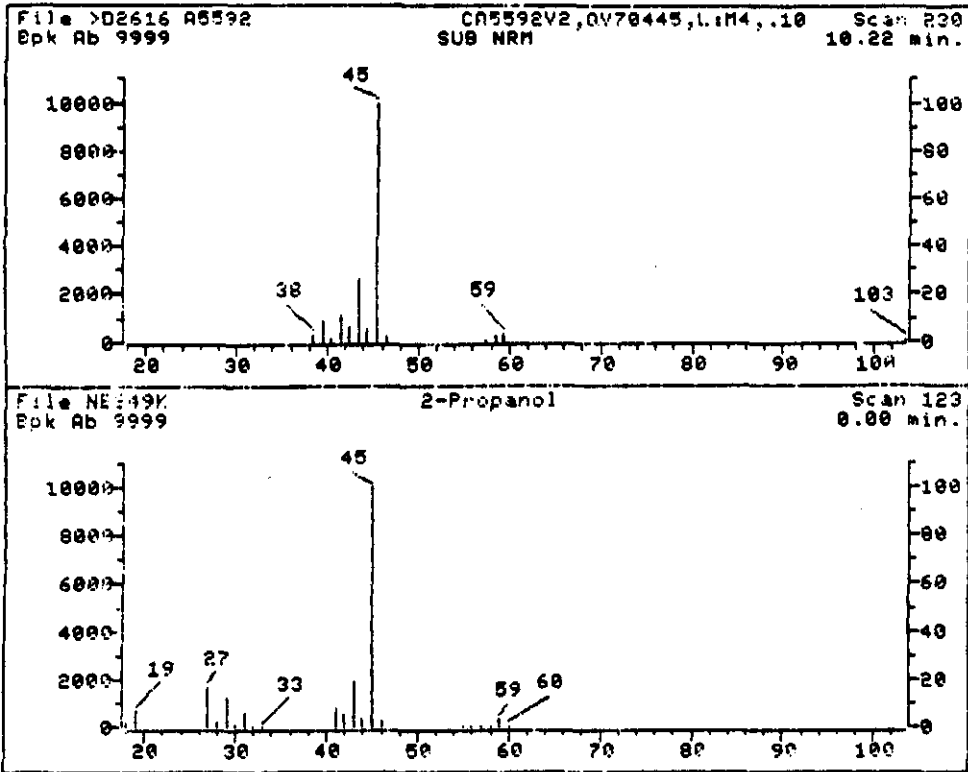


SAMPLE SPECTRUM (UNALTERED)



Data File: >D2616::U1 Quant Output File: ^D2616::AQ
 Name: A5592
 Misc: CA5592V2,QV70445,L:M4,.10,,
 Quant Time: 910114 20:35 Quant ID File: ID0310::SS
 Injected at: 910114 19:56 Last Calibration: 910114 11:09

Compound No: 15
 Compound Name: Tetrahydrofuran
 Scan Number: 285
 Retention Time: 12.35 min.
 Quant Ion: 42.0
 Area: 381057
 Concentration: 7529.50 NG
 q-value: 100



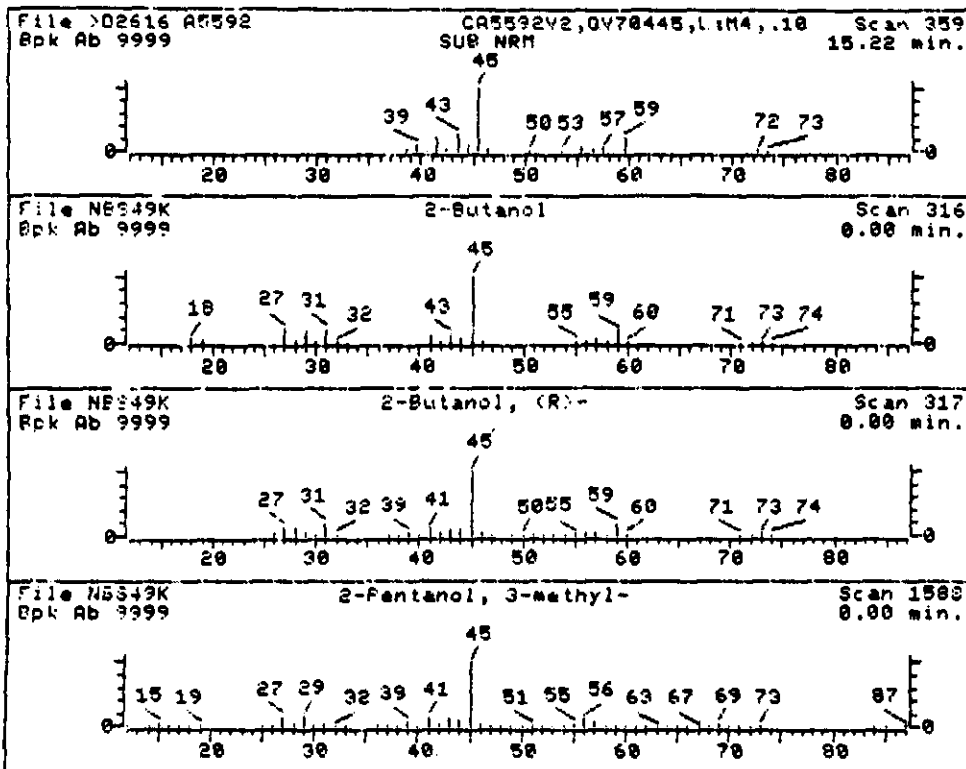
Data File: >D2616::U1
 Name: A5592
 Misc Data: CA5592V2, QV70445, L:M4, .10, ,
 RT (min): 10.22
 Scan: 230
 Area: 107088 Rank: 7
 Semi-quantitative Conc (uncorrected): 55.92 NG
 Semi-quantitative Conc (corrected): 559.23 ug/l
 Calculated using Istd: Bromochloromethane @ 11.42 minutes

1. 2-Propanol

60 C3H8O

Sample file: >D2616 Spectrum #: 230
 Search speed: 2 Tilting option: S No. of ion ranges searched: 4

| Prob. | CAS # | CON # | ROOT | K | DK | #FLG | TILT | % | CON | C_I | R_IU | |
|-------|-------|-------|------|--------|----|------|------|---|-----|-----|------|----|
| 1. | 70 | 67630 | 331 | NR=49K | 37 | 30 | 1 | 0 | 97 | 8 | 42 | 1. |

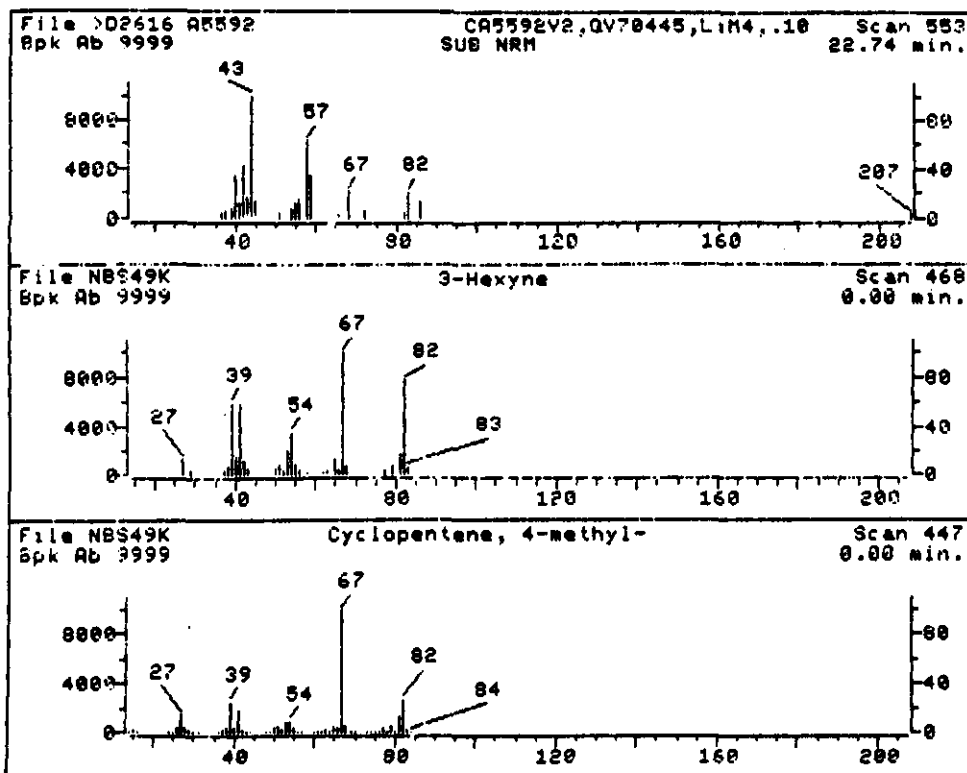


Data File: >D2616::U1
 Name: A5592
 Misc Data: CA5592U2,QU70445,L:M4,.10,,
 RT (min): 15.22
 Scan: 359
 Area: 98490 Rank: 8
 Semi-quantitative Conc (uncorrected): 51.43 NG
 Semi-quantitative Conc (corrected): 514.33 ug/l
 Calculated using Istd: Bromochloromethane @ 11.42 minutes

- | | |
|--------------------------|------------|
| 1. 2-Butanol | 74 C4H100 |
| 2. 2-Butanol, (R)- | 74 C4H100 |
| 3. 2-Pentanol, 3-methyl- | 102 C6H140 |

Sample file: >D2616 Spectrum #: 359
 Search speed: 2 Tilting option: S No. of ion ranges searched: 4

| | Prob. | CAS # | CON # | ROOT | K | OK | #FLG | TILT | % | CON | C_I | R_IU |
|----|-------|----------|-------|--------|----|----|------|------|-----|-----|-----|------|
| 1. | 70 | 78922 | 1715 | NBS49K | 41 | 42 | 1 | 0 | 100 | 7 | 42 | 1- |
| 2. | 70 | 14898794 | 1716 | NBS49K | 32 | 48 | 0 | 0 | 95 | 9 | 42 | 1- |
| 3. | 41 | 565606 | 1069 | NBS49K | 36 | 42 | 2 | 0 | 100 | 23 | 17 | 1- |

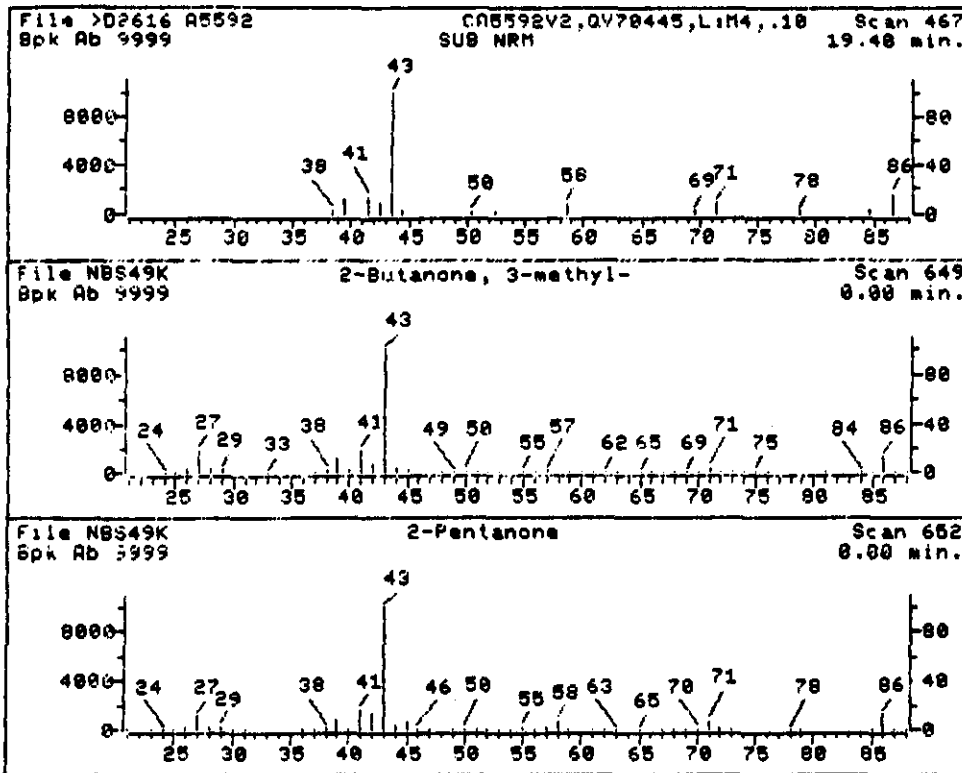


Data File: >D2616::U1
 Name: A5592
 Misc Data: CA5592U2,QU70445,L:M4,.10,,
 RT (min): 22.74
 Scan: 553
 Area: 80173 Rank: 9
 Semi-quantitative Conc (uncorrected): 22.47 NG
 Semi-quantitative Conc (corrected): 224.67 ug/l
 Calculated using Istd: 1,4-Difluorobenzene @ 22.08 minutes

- 1. 3-Hexyne 82 C6H10
- 2. Cyclopentene, 4-methyl- 82 C6H10

Sample file: >D2616 Spectrum #: 553
 Search speed: 2 Tilting option: S No. of ion ranges searched: 50

| | Prob. | CAS # | CON # | ROOT | K | DK | #FLG | TILT | % | CON | C_I | R_I |
|----|-------|---------|-------|--------|----|----|------|------|----|-----|-----|-----|
| 1. | 20* | 928494 | 5858 | NBS49K | 31 | 40 | 2 | 0 | 21 | 51 | 5 | 15 |
| 2. | 11* | 1759815 | 3447 | NBS49K | 25 | 59 | 3 | 0 | 76 | 65 | 2 | 13 |



Data File: >D2616::U1
 Name: A5592
 Misc Data: CA5592U2,QU70445,L:M4,.10,,
 RT (min): 19.40
 Scan: 467
 Area: 58174 Rank: 11
 Semi-quantitative Conc (uncorrected): 16.30 NG
 Semi-quantitative Conc (corrected): 163.02 ug/l
 Calculated using Istd: 1,4-Difluorobenzene @ 22.08 minutes

- | | |
|--------------------------|-----------|
| 1. 2-Butanone, 3-methyl- | 86 C5H10O |
| 2. 2-Pentanone | 86 C5H10O |

Sample file: >D2616 Spectrum #: 467
 Search speed: 2 Tilting option: S No. of ion ranges searched: 47

| | Prob. | CAS # | CON # | ROOT | K | DK | #FLG | TILT | % | CON | C_I | R_I |
|----|-------|--------|-------|--------|----|----|------|------|-----|-----|-----|-----|
| 1. | 60* | 563804 | 6960 | NBS49K | 21 | 52 | 2 | 0 | 78 | 14 | 30 | 13 |
| 2. | 52* | 107879 | 6962 | NBS49K | 30 | 44 | 3 | 0 | 100 | 18 | 20 | 10 |

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

1A5592 **RE**DL

Lab Name: ETC Corp.

Contract:

Lab Code:

Case No.:

SAS No.:

SUG No.:

1-29-91

Matrix: (soil/water) WATER

Lab Sample ID: CA55920 **RE**

Sample wt/vol: .01 (g/mL) ML

Lab File ID: >02629

Level: (low/med) LOW

Date Received: 1/8/91

% Moisture: not dec.

Date Analyzed: 01/15/91

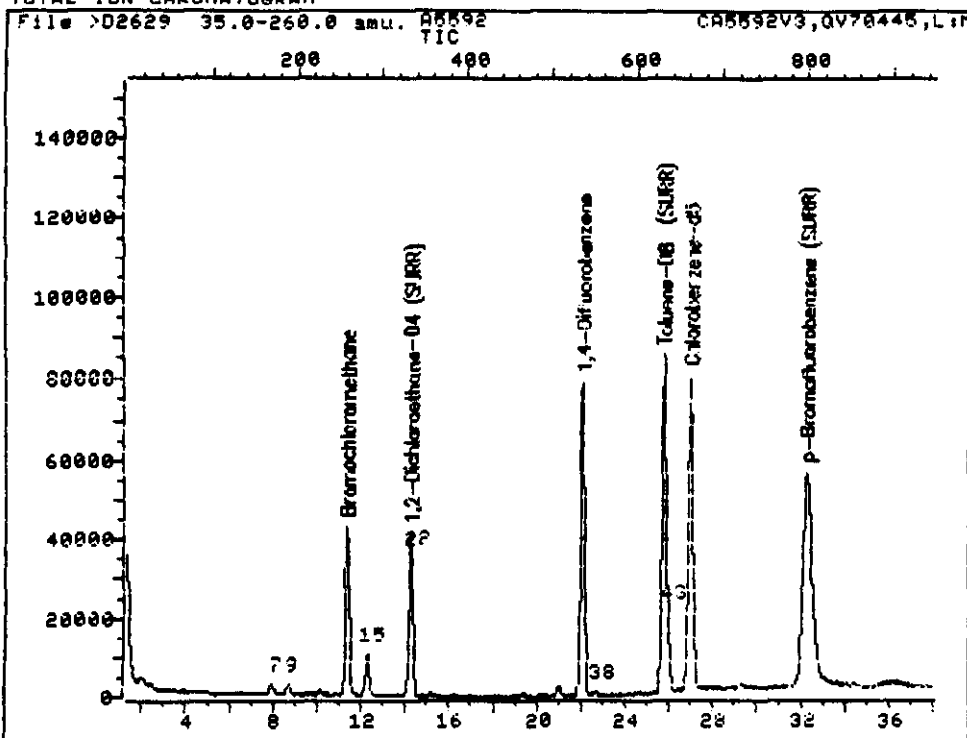
Column: (pack/cap) PALK

Dilution Factor: 500

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | |
|------------|----------------------------|--|----|
| 74-87-3 | Chloromethane | 15000 | 10 |
| 74-83-9 | Bromomethane | 15000 | 10 |
| 75-01-4 | Vinyl Chloride | 15000 | 10 |
| 75-00-3 | Chloroethane | 15000 | 10 |
| 75-09-2 | Methylene Chloride | 16400 | 1 |
| 67-64-1 | Acetone | 114000 | 1 |
| 75-15-0 | Carbon Disulfide | 12500 | 10 |
| 75-35-4 | 1,1-Dichloroethene | 12500 | 10 |
| 75-34-3 | 1,1-Dichloroethane | 12500 | 10 |
| 540-59-0 | 1,2-Dichloroethene (total) | 12500 | 10 |
| 67-66-3 | Chloroform | 12500 | 10 |
| 107-06-2 | 1,2-Dichloroethane | 12500 | 10 |
| 78-93-3 | 2-Butanone | 19500 | 1 |
| 71-55-6 | 1,1,1-Trichloroethane | 12500 | 10 |
| 56-23-5 | Carbon Tetrachloride | 12500 | 10 |
| 108-05-4 | Vinyl Acetate | 15000 | 10 |
| 75-27-4 | Bromodichloromethane | 12500 | 10 |
| 78-87-5 | 1,2-Dichloropropane | 12500 | 10 |
| 10061-01-5 | cis-1,3-Dichloropropene | 12500 | 10 |
| 79-01-6 | Trichloroethene | 12500 | 10 |
| 124-48-1 | Dibromochloromethane | 12500 | 10 |
| 79-00-5 | 1,1,2-Trichloroethane | 12500 | 10 |
| 71-43-2 | Benzene | 12500 | 10 |
| 10061-02-6 | trans-1,3-Dichloropropene | 12500 | 10 |
| 75-25-2 | Bromoform | 12500 | 10 |
| 108-10-1 | 4-Methyl-2-Pentanone | 15000 | 10 |
| 591-78-6 | 2-Hexanone | 15000 | 10 |
| 127-18-4 | Tetrachloroethene | 12500 | 10 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 12500 | 10 |
| 108-88-3 | Toluene | 13600 | 1 |
| 108-90-7 | Chlorobenzene | 12500 | 10 |
| 100-41-4 | Ethylbenzene | 12500 | 10 |
| 100-42-5 | Styrene | 12500 | 10 |
| 1330-20-7 | Xylene (total) | 12500 | 10 |

D

TOTAL ION CHROMATOGRAM



Data File: >D2629::U1

Quant Output File: ^D2629::AQ

Name: A5592RB RB

Misc: CA5592V3, QV70445, L:M4, 0.01,,

Id File: ID0310::SS

Title: PP/VOA, IFB, X00A13, X00A9

Last Calibration: 910114 11:09

Operator ID: KB6656

Quant Time: 910115 22:16

Injected at: 910115 21:37

QUANT REPORT

Operator ID: KB6656
 Output File: ^D2629::AU
 Date File: >D2629::U1
 Name: A5592RB RB
 Misc: CA5592U3, QU7U445, L:M4, U.01,,

Quant Rev: 7 Quant Time: 91U115 22:16
 Injected at: 91U115 21:37
 Dilution Factor: 1.0000U

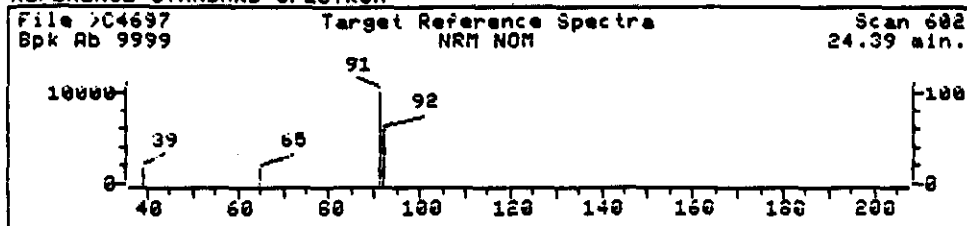
ID File: ID0310::SS
 Title: PP/VDA, IFB, XVUA13, XVUA9
 Last Calibration: 91U114 11:09

| Compound | R.T. | Scan# | Area | Conc | Units | q |
|----------------------------------|-------|-------|--------|-----------------|-------|-----|
| 1) *Bromochloromethane | 11.39 | 260 | 65526 | 250.00 | NG | 93 |
| 7) Methylene chloride | 7.94 | 171 | 7691 | 63.53 | NG | 91 |
| 9) Acetone | 8.71 | 191 | 24150 | 138.73 | NG | 96 |
| 15) Tetrahydrofuran | 12.32 | 284 | 36014 | 685.03 | NG | 100 |
| 18) 1,2-Dichloroethane-D4 (SURR) | 14.30 | 335 | 188241 | 308.10 | NG | 93 |
| 21) *1,4-Difluorobenzene | 22.09 | 536 | 359706 | 250.00 | NG | 97 |
| 22) Methyl ethyl ketone | 14.34 | 336 | 4542 | 95.41 | NG | 91 |
| 37) *Chlorobenzene-d5 | 26.99 | 662 | 316706 | 250.00 | NG | 81 |
| 38) Methyl-iso-butyl ketone | 22.75 | 553 | 3506 | 7.55 | NG | 65 |
| 42) Toluene-D8 (SURR) | 25.77 | 631 | 377561 | 241.47 | NG | 94 |
| 43) Toluene | 25.98 | 636 | 32028 | 36.33 | NG | 98 |
| 46) p-Bromofluorobenzene (SURR) | 32.30 | 799 | 235747 | 240.35 | NG | 86 |

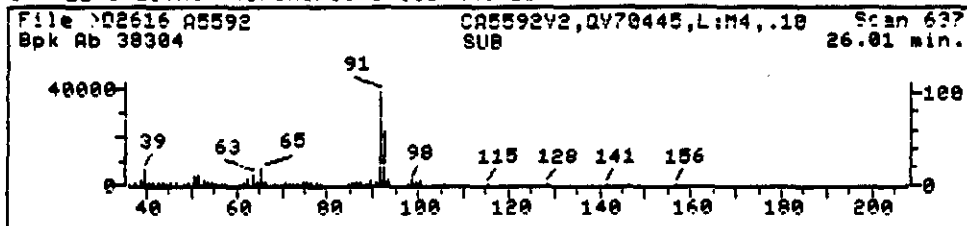
* Compound is ISTD

AP 1/24/91

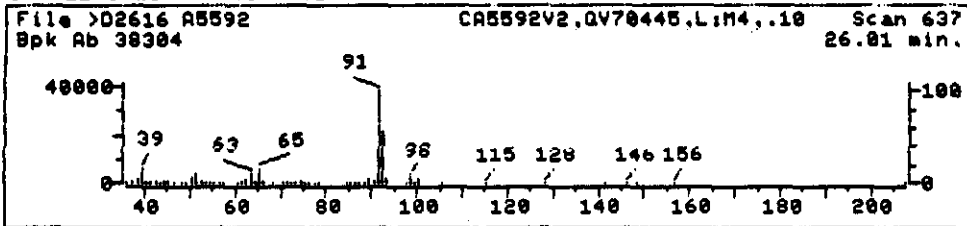
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)



Data File: >D2616::U1 Quant Output File: ^D2616::AQ
 Name: A5592
 Misc: CA5592V2,QV70445,L:M4,.10,,
 Quant Time: 910114 20:35 Quant ID File: ID0310::SS
 Injected at: 910114 19:56 Last Calibration: 910114 11:09

Compound No: 43
 Compound Name: Toluene
 Scan Number: 637
 Retention Time: 26.01 min.
 Quant Ion: 92.0
 Area: 261863
 Concentration: 320.77 NG
 q-value: 98

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

1A5593

Lab Name: ETC Corp.

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.:

Matrix: (soil/water) WATER

Lab Sample ID: CA5593

Sample wt/vol: 5.0 (g/mL) ML

Lab File ID: >D2602

Level: (low/med) LOW

Date Received: 1/8/91

% Moisture: not dec.

Date Analyzed: 01/14/91

Column: (pack/cap) PACK

Dilution Factor: 1

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

| CAS NO. | COMPOUND | UG/L | UG/L |
|------------|----------------------------|------|------|
| 74-87-3 | Chloromethane | 110 | 10 |
| 74-83-9 | Bromomethane | 110 | 10 |
| 75-01-4 | Vinyl Chloride | 110 | 10 |
| 75-00-3 | Chloroethane | 110 | 10 |
| 75-09-2 | Methylene Chloride | 14 | 10 |
| 67-64-1 | Acetone | 18 | 10 |
| 75-15-0 | Carbon Disulfide | 15 | 10 |
| 75-35-4 | 1,1-Dichloroethene | 15 | 10 |
| 75-34-3 | 1,1-Dichloroethane | 15 | 10 |
| 540-59-0 | 1,2-Dichloroethene (total) | 15 | 10 |
| 67-66-3 | Chloroform | 15 | 10 |
| 107-06-2 | 1,2-Dichloroethane | 15 | 10 |
| 78-93-3 | 2-Butanone | 110 | 10 |
| 71-55-6 | 1,1,1-Trichloroethane | 15 | 10 |
| 56-23-5 | Carbon Tetrachloride | 15 | 10 |
| 108-05-4 | Vinyl Acetate | 110 | 10 |
| 75-27-4 | Bromodichloromethane | 15 | 10 |
| 78-87-5 | 1,2-Dichloropropane | 15 | 10 |
| 10061-01-5 | cis-1,3-Dichloropropene | 15 | 10 |
| 79-01-6 | Trichloroethene | 15 | 10 |
| 124-48-1 | Dibromochloromethane | 15 | 10 |
| 79-00-5 | 1,1,2-Trichloroethane | 15 | 10 |
| 71-43-2 | Benzene | 15 | 10 |
| 10061-02-6 | trans-1,3-Dichloropropene | 15 | 10 |
| 75-25-2 | Bromoform | 15 | 10 |
| 108-10-1 | 4-Methyl-2-Pentanone | 110 | 10 |
| 591-78-6 | 2-Hexanone | 110 | 10 |
| 127-18-4 | Tetrachloroethene | 15 | 10 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 15 | 10 |
| 108-88-3 | Toluene | 15 | 10 |
| 108-90-7 | Chlorobenzene | 15 | 10 |
| 100-41-4 | Ethylbenzene | 15 | 10 |
| 100-42-5 | Styrene | 15 | 10 |
| 1330-20-7 | Xylene (total) | 15 | 10 |

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Lab Name: ETC CORP Contract: _____

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: CASS93

Sample wt/vol: 5 (g/mL) ML Lab File ID: >D2602

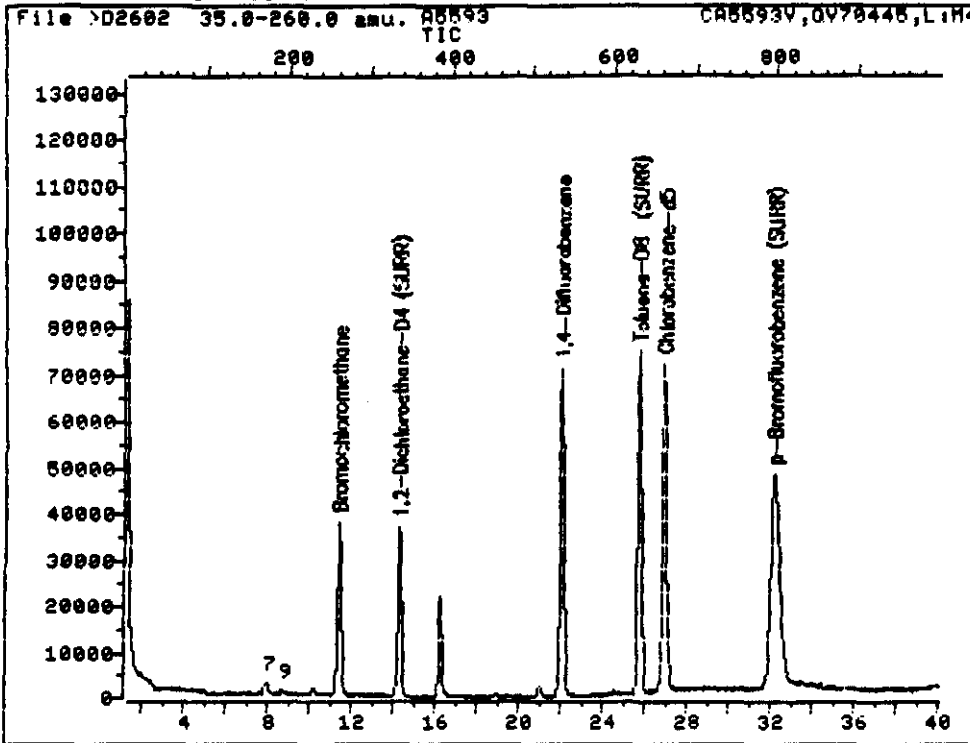
Level: (low/med) LOW Date Received: 1/8/91

% Moisture: not dec. _____ Date Analyzed: 1/14/91

Column: (pack/cap) PACK Dilution Factor: 1

| CAS NO. | COMPOUND | CONCENTRATION UNITS: | |
|---------|-----------------|----------------------|-------------|
| | | (ug/L or ug/Kg) | <u>MG/L</u> |
| | Tetrahydrofuran | 10 | 0 |
| | | | |
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TOTAL ION CHROMATOGRAM



Data File: >D2602::U1
Name: A5593
Misc: CA5593V, QV70446, L: M4, 5, ,

Quant Output File: ^D2602::AQ

Id File: ID0310::SS
Title: PP/VOA, IFB, XVOA13, XVOA9
Last Calibration: 910113 18:53

Operator ID: KB6656
Quant Time: 910114 05:58
Injected at: 910114 05:17

QUANT REPORT

Page 1

Operator ID: KB6656
 Output File: ^D2602::AQ
 Data File: >D2602::U1
 Name: A5593
 Misc: CA5593U,QU70445,L:M4,5,,

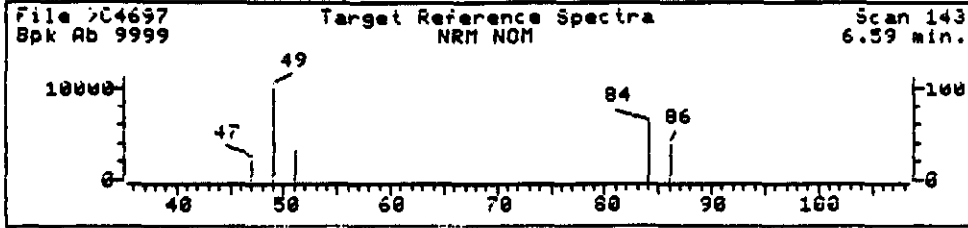
Quant Rev: 7 Quant Time: 910114 05:58
 Injected at: 910114 05:17
 Dilution Factor: 1.00000

ID File: ID0310::SS
 Title: PP/VOA, 1FB, XVUA13, XVUA9
 Last Calibration: 910113 18:53

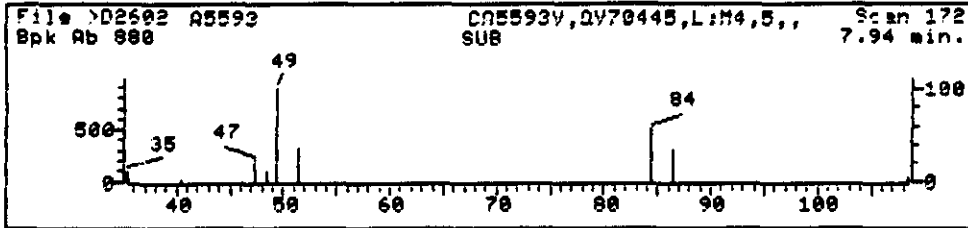
| Compound | R.T. | Scan# | Area | Conc | Units | q |
|----------------------------------|-------|-------|--------|--------|-------|----|
| 1) *Bromochloromethane | 11.39 | 261 | 59874 | 250.00 | NG | 91 |
| 7) Methylene chloride | 7.94 | 172 | 6895 | 19.38 | NG | 91 |
| 9) Acetone | 8.72 | 192 | 7551 | 41.17 | NG | 86 |
| 18) 1,2-Dichloroethane-D4 (SURR) | 14.30 | 336 | 173227 | 271.49 | NG | 93 |
| 21) *1,4-Difluorobenzene | 22.05 | 536 | 316452 | 250.00 | NG | 98 |
| 37) *Chlorobenzene-d5 | 26.95 | 662 | 273343 | 250.00 | NG | 78 |
| 42) Toluene-D8 (SURR) | 25.74 | 631 | 329235 | 240.02 | NG | 95 |
| 46) p-Bromofluorobenzene (SURR) | 32.19 | 797 | 207805 | 244.18 | NG | 87 |

* Compound is ISTD

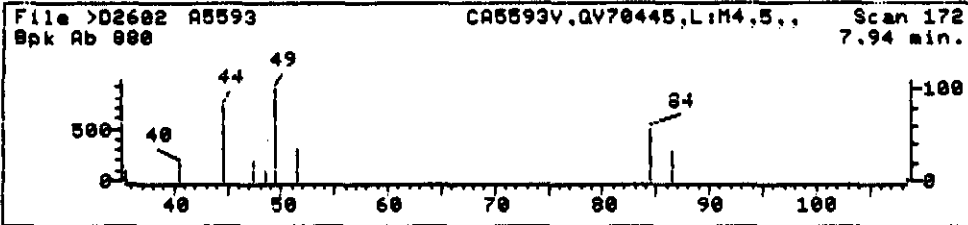
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)



Data File: >D2602::U1

Quant Output File: ^D2602::AQ

Name: A5593

Misc: CA5593V,QU70445,L:M4,5,,

Quant ID File: ID0310::SS

Quant Time: 910114 05:58

Last Calibration: 910113 18:53

Injected at: 910114 09:17

Compound No: 7

Compound Name: Methylene chloride

Scan Number: 172

Retention Time: 7.94 min.

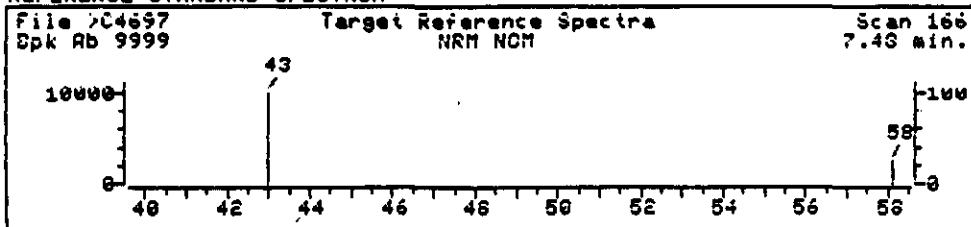
Quant Ion: 84.0

Area: 6895

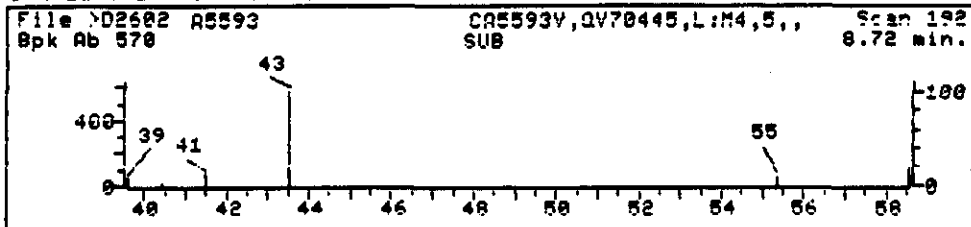
Concentration: 19.38 NG

q-value: 91

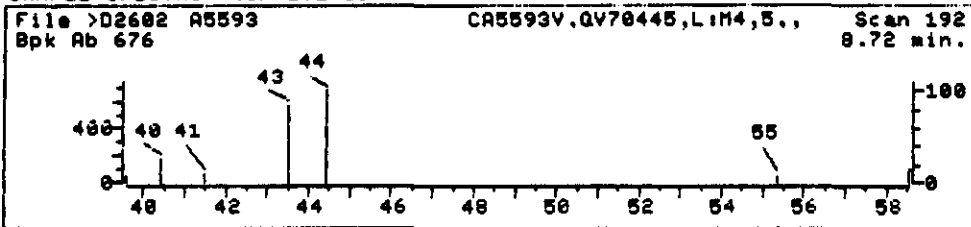
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)

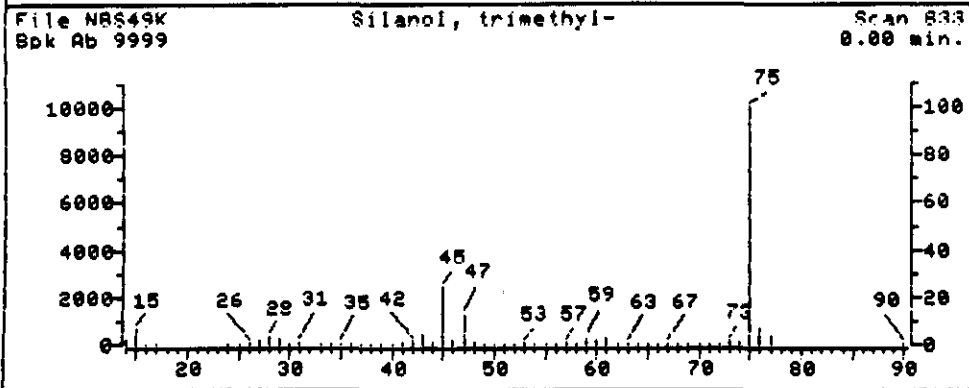
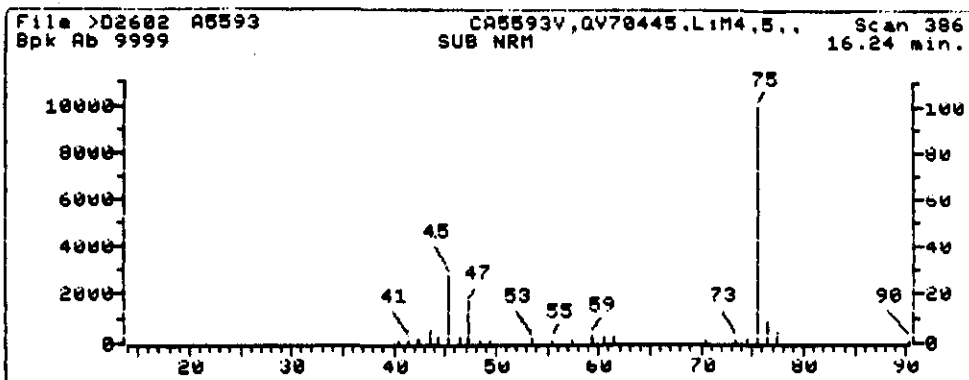


Data File: >D2602::U1
 Name: A5593
 Misc: CA5593V,QV70445,L:M4,5,,
 Quant Time: 910114 05:58
 Injected at: 910114 05:17

Quant Output File: ^D2602::AQ

Quant ID File: 1D0310::SS
 Last Calibration: 910113 18:53

Compound No: 9
 Compound Name: Acetone
 Scan Number: 192
 Retention Time: 8.72 min.
 Quant Ion: 43.0
 Area: 7551
 Concentration: 41.17 NG
 q-value: 86



Data File: >D2602::U1
 Name: A5593
 Misc Data: CA5593V,QV70445,L:M4,5,,
 RT (min): 16.24
 Scan: 386
 Area: 245593 Rank: 4
 Semi-quantitative Conc (uncorrected): 134.83 NG
 Semi-quantitative Conc (corrected): 26.97 ug/l
 Calculated using Istd: Bromochloromethane @ 11.39 minutes

1. Silanol, trimethyl-

90 C3H10OS:

Sample file: >D2602 Spectrum #: 386
 Search speed: 2 Tilting option: S No. of ion ranges searched: 4-

| Prob. | CAS # | CON # | ROOT | K | DK | #PLG | TILT | % | CUN | C_1 | R_10 |
|-------|-------|---------|------|--------|----|------|------|---|-----|-----|-------|
| 1. | 93* | 1066406 | 4954 | NBS49K | 70 | 14 | 1 | 0 | 100 | 0 | 68 80 |

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

1A5597

Lab Name: ETC Corp.

Contract:

Lab Code:

Case No.:

SAS No.:

SUG No.:

Matrix: (soil/water) WATER

Lab Sample ID: CA559700

Sample wt/vol: 5.0 (g/mL) ML

Lab File ID: >02630

Level: (low/med) LOW

Date Received: 1/8/91

% Moisture: not dec.

Date Analyzed: 01/15/91

Column: (pack/cap) PACK

Dilution Factor: 1

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) | UG/L | U |
|------------|----------------------------|---|------|---|
| 74-87-3 | Chloromethane | 110 | 10 | |
| 74-83-9 | Bromomethane | 110 | 10 | |
| 75-01-4 | Vinyl Chloride | 11300 | 1E | |
| 75-00-3 | Chloroethane | 110 | 10 | |
| 75-09-2 | Methylene Chloride | 15 | 10 | |
| 67-64-1 | Acetone | 154000 | 1E | |
| 75-15-0 | Carbon Disulfide | 15 | 10 | |
| 75-35-4 | 1,1-Dichloroethene | 15 | 10 | |
| 75-34-3 | 1,1-Dichloroethane | 15 | 10 | |
| 540-59-0 | 1,2-Dichloroethene (total) | 11100 | 1E | |
| 67-66-3 | Chloroform | 15 | 10 | |
| 107-06-2 | 1,2-Dichloroethane | 15 | 10 | |
| 78-93-3 | 2-Butanone | 117000 | 1E | |
| 71-55-6 | 1,1,1-Trichloroethane | 15 | 10 | |
| 56-23-5 | Carbon Tetrachloride | 15 | 10 | |
| 108-05-4 | Vinyl Acetate | 110 | 10 | |
| 75-27-4 | Bromodichloromethane | 15 | 10 | |
| 78-87-5 | 1,2-Dichloropropane | 12 | 10 | |
| 10061-01-5 | cis-1,3-Dichloropropene | 15 | 10 | |
| 79-01-6 | Trichloroethene | 12 | 10 | |
| 124-48-1 | Dibromochloromethane | 15 | 10 | |
| 79-00-5 | 1,1,2-Trichloroethane | 15 | 10 | |
| 71-43-2 | Benzene | 15 | 10 | |
| 10061-02-6 | trans-1,3-Dichloropropene | 15 | 10 | |
| 75-25-2 | Bromoform | 15 | 10 | |
| 108-10-1 | 4-Methyl-2-Pentanone | 13900 | 1E | |
| 591-78-6 | 2-Hexanone | 110 | 10 | |
| 127-18-4 | Tetrachloroethene | 12 | 10 | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 15 | 10 | |
| 108-88-3 | Toluene | 13300 | 1E | |
| 108-90-7 | Chlorobenzene | 15 | 10 | |
| 100-41-4 | Ethylbenzene | 1770 | | |
| 100-42-5 | Styrene | 15 | 10 | |
| 1330-20-7 | Xylene (total) | 11600 | 1E | |

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Lab Name: ETC CORP Contract: _____
 Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: _____
 Matrix: (soil/water) WATER Lab Sample ID: CASS97V3
 Sample wt/vol: 5 (g/mL) ML Lab File ID: 7D2630
 Level: (low/med) LOW Date Received: 1/3/91
 % Moisture: not dec. _____ Date Analyzed: 1/15/91
 Column: (pack/cap) PACK Dilution Factor: 1

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/kg) <u>ug/L</u> | Q |
|---------|-----------------|---|---|
| | Tetrahydrofuran | 49000 | E |
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1E
 VOLATILE ORGANICS ANALYSIS DATA SHEET
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

| |
|-------|
| A5597 |
|-------|

Lab Name: ETC Corp. | Laboratory | Contract:

Lab Code: | Case No.: | SAS No.: | SDG No.:

Matrix: (soil/water) WATER | Lab Sample ID: CA5597U3

Sample wt/vol: 5.0 (g/mL) ML | Lab File ID: >02630

Level: (low/med) LOW | Date Received: 1/8/91

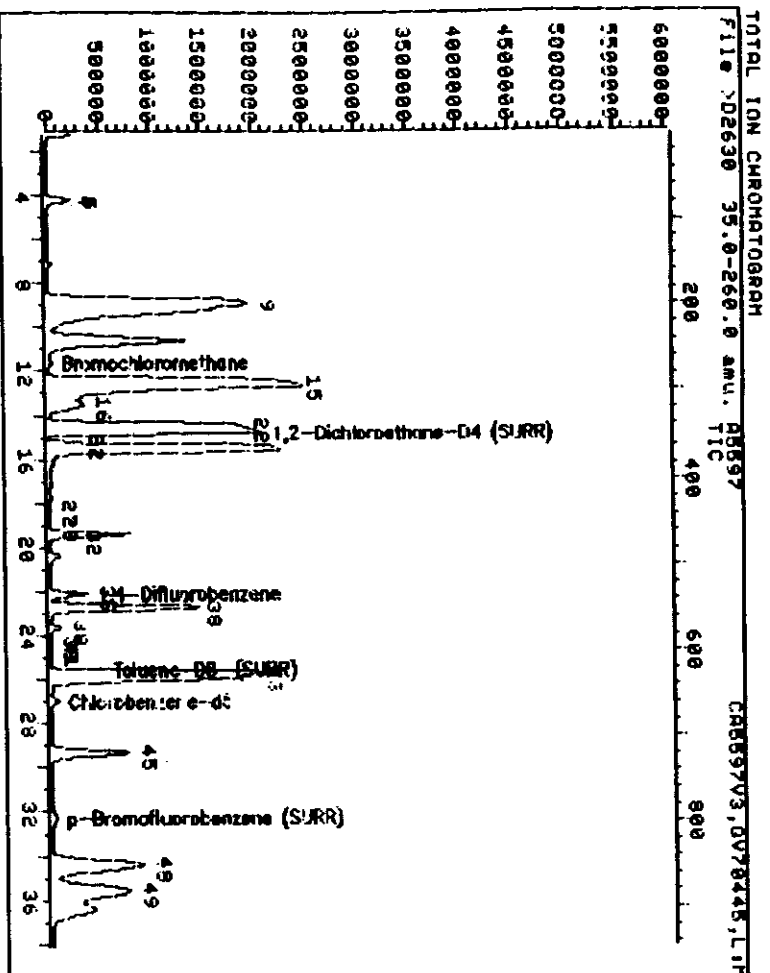
% Moisture: not dec. | Date Analyzed: 01/15/91

Column: (pack/cap) PACK | Dilution Factor: 1.0

CONCENTRATION UNITS:
 (ug/L or ug/Kg) UG/L

Number TICs found: 10

| CAS NUMBER | COMPOUND NAME | RT | EST. CONC | Q |
|---------------|--------------------------|-------|-----------|---|
| 01. 78-92-2 | 2-Butanol | 15.66 | 5100 | J |
| 02. 67-63-0 | 2-Propanol | 10.64 | 2600 | J |
| 03. 107-87-9 | 2-Pentanone | 19.42 | 100 | J |
| 04. 75-01-4 | Ethene, chloro- | 4.20 | 290 | J |
| 05. 6032-29-7 | 2-Pentanol | 20.39 | 15 | J |
| 06. 626-93-7 | 2-Hexanol | 23.65 | 12 | J |
| 07. 75-43-4 | Methane, dichlorofluoro- | 7.15 | 40 | J |
| 08. | Unknown | 16.94 | 4 | J |
| 09. 563-80-4 | 2-Butanone, 3-methyl- | 17.75 | 1 | J |
| 10. | Unknown | 2.50 | 10 | J |
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Data File: \02630::U1

Quant Output File: \02630::R0

Name: A5597

Misc: CAR097V03,0V78445,L1M4,5,,

ID File: ID0310::SS

Title: PP/VOA, IFB, XVOA13, XVOA9

Last Calibration: 910114 11:09

Operator ID: KB6656

Quant Time: 910115 23:01

Injected at: 910115 22:22

QUANT REPORT

Operator ID: KB6656
 Output File: >D2630::AQ
 Data File: >D2630::U1
 Name: A5597
 Misc: CA5597U3,QU70445,L:M4,5,,

Quant Rev: 7 Quant Time: 910115 23:01
 Injected at: 910115 22:22
 Dilution Factor: 1.00000

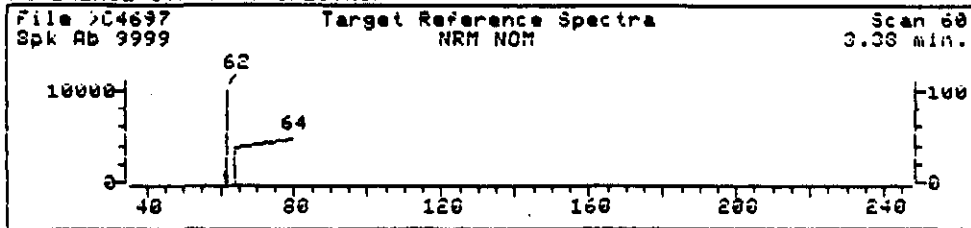
ID File: IDU310::SS
 Title: PP/VDA, 1FB, XVDA13, XVDA9
 Last Calibration: 910114 11:09

| Compound | R.T. | Scan# | Area | Conc | Units | q |
|----------------------------------|-------|-------|----------|--------------------|-------|-----|
| 1) *Bromochloromethane | 11.61 | 267 | 83847 | 250.00 | NG | 94 |
| 4) Dichlorodifluoromethane | 4.16 | 75 | 52254 | 146.45 | NG | 44 |
| 5) Vinyl chloride | 4.20 | 76 | 1964160 | 6271.43 | NG | 93 |
| 9) Acetone | 8.97 | 199 | 60633312 | 272195.1 | NG | 95 |
| 15) Tetrahydrofuran | 12.58 | 292 | 16483394 | 245026.6 | NG | 100 |
| 16) 1,2-Trans-dichloroethylene | 13.51 | 316 | 2156341 | 5476.40 | NG | 95 |
| 18) 1,2-Dichloroethane-D4 (SURR) | 14.83 | 350 | 5941 | 7.60 | NG | 77 |
| 21) *1,4-Difluorobenzene | 22.10 | 532 | 304340 | 250.00 | NG | 96 |
| 22) Methyl ethyl ketone | 14.52 | 342 | 3458492 | 85868.80 | NG | 92 |
| 22) Methyl ethyl ketone | 15.23 | 355 | 202986 | 5077.82 | NG | 88 |
| 27) 1,2-Dichloropropane | 18.18 | 431 | 3604 | 9.40 | NG | 99 |
| 29) Trichloroethylene | 18.95 | 451 | 5911 | 11.85 | NG | 88 |
| 31) bis(Chloromethyl)ether | 19.54 | 466 | 9453 | 57.38 | NG | 100 |
| 32) Benzene | 19.54 | 466 | 146272 | 133.75 | NG | 91 |
| 37) *Chlorobenzene-d5 | 26.99 | 638 | 239349 | 250.00 | NG | 66 |
| 38) Methyl-iso-butyl ketone | 22.13 | 533 | 151153 | 438.45 | NG | 46 |
| 38) Methyl-iso-butyl ketone | 22.79 | 550 | 6726130 | 19297.06 | NG | 83 |
| 38) Methyl-iso-butyl ketone | 23.65 | 572 | 142869 | 406.86 | NG | 68 |
| 39) 2-Hexanone | 24.35 | 590 | 29057 | 72.35 | NG | 80 |
| 41) Tetrachloroethylene | 24.62 | 597 | 4909 | 10.71 | NG | 95 |
| 42) Toluene-DB (SURR) | 25.55 | 621 | 132393 | 112.04 | NG | 96 |
| 43) Toluene | 25.78 | 627 | 11029444 | 16554.79 | NG | 95 |
| 45) Ethylbenzene | 29.36 | 719 | 1588249 | 3828.25 | NG | 76 |
| 46) p-Bromofluorobenzene (SURR) | 32.27 | 794 | 196137 | 264.37 | NG | 64 |
| 48) m-Xylene | 34.41 | 849 | 3959826 | 7492.67 | NG | 91 |
| 49) o+p-Xylenes | 35.61 | 880 | 3853754 | 7814.73 | NG | 87 |

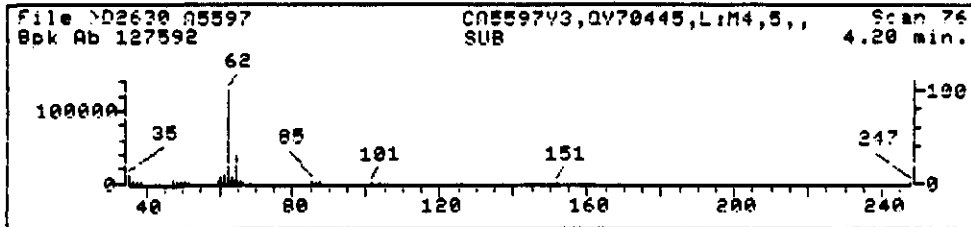
* Compound is ISTD

NP 1/22/91

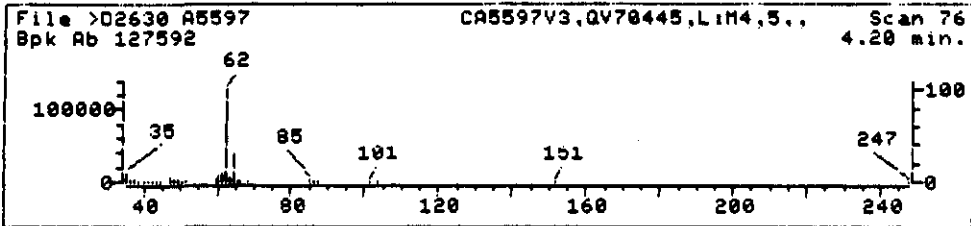
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)



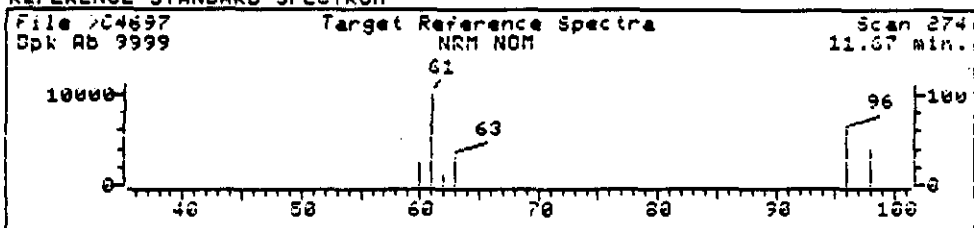
Data File: >D2630::U1
 Name: A5597
 Misc: CA5597V3,QV70445,L:M4,5,,
 Quant Time: 91U115 23:U1
 Injected at: 91U115 22:22

Quant Output File: ^D2630::AQ

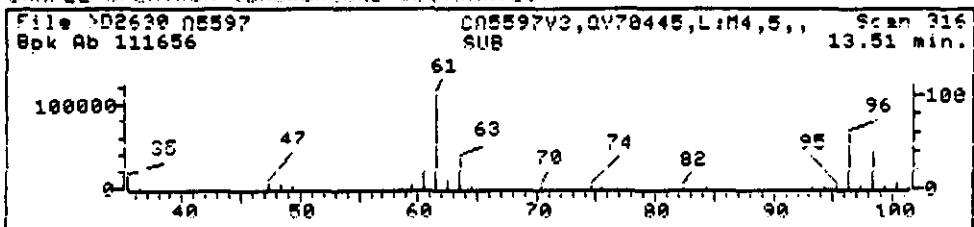
Quant ID File: 1DU31U::55
 Last Calibration: 91U114 11:09

Compound No: 5
 Compound Name: Vinyl chloride
 Scan Number: 76
 Retention Time: 4.20 min.
 Quant Ion: 62.0
 Area: 1964160
 Concentration: 6271.43 NG
 q-value: 93

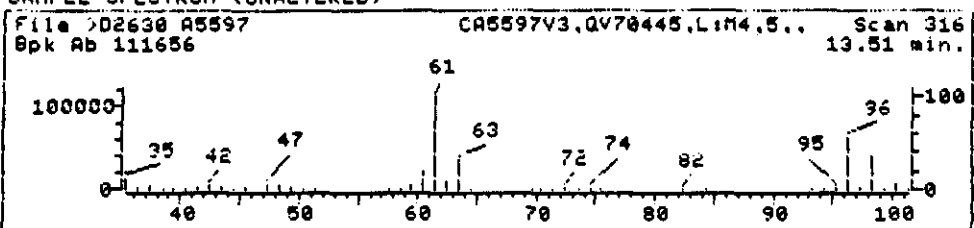
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



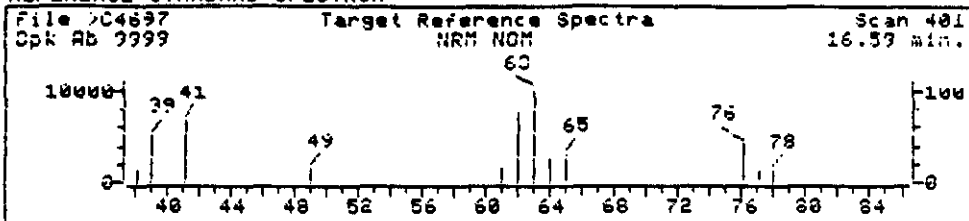
SAMPLE SPECTRUM (UNALTERED)



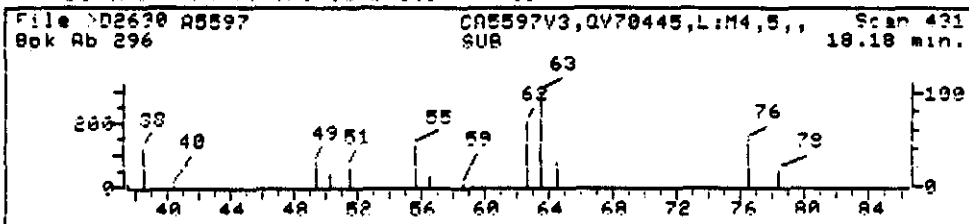
Data File: >D2630::U1 Quant Output File: >D2630::AW
 Name: A5597
 Misc: CA5597V3,QV70445,L:M4,5,,
 Quant Time: 910115 23:01 Quant ID File: 1D0310::S5
 Injected at: 910115 22:22 Last Calibration: 910114 11:09

Compound No: 16
 Compound Name: 1,2-Trans-dichloroethylene
 Scan Number: 316
 Retention Time: 13.51 min.
 Quant Ion: 96.0
 Area: 2156341
 Concentration: 5476.40 NG
 q-value: 95

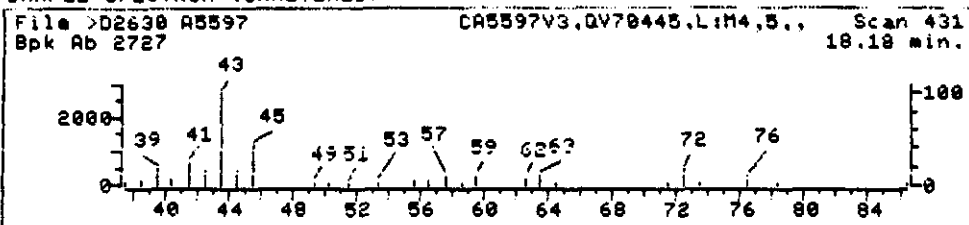
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



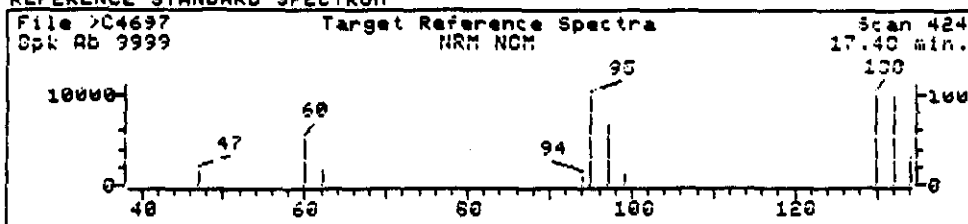
SAMPLE SPECTRUM (UNALTERED)



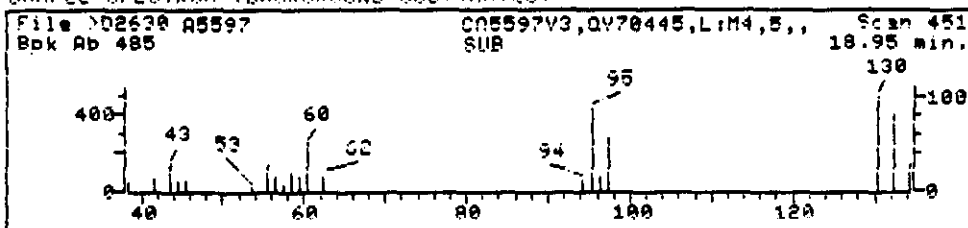
Data File: >D2630::U1 Quant Output File: ^D2630::AQ
 Name: A5597
 Misc: CA5597V3,QV70445,L:M4,5,,
 Quant Time: 910115 23:01 Quant ID File: 100310::S5
 Injected at: 910115 22:22 Last Calibration: 910114 11:09

Compound No: 27
 Compound Name: 1,2-Dichloropropane
 Scan Number: 431
 Retention Time: 18.18 min.
 Quant Ion: 63.0
 Area: 3604
 Concentration: 9.40 NG
 q-value: 99

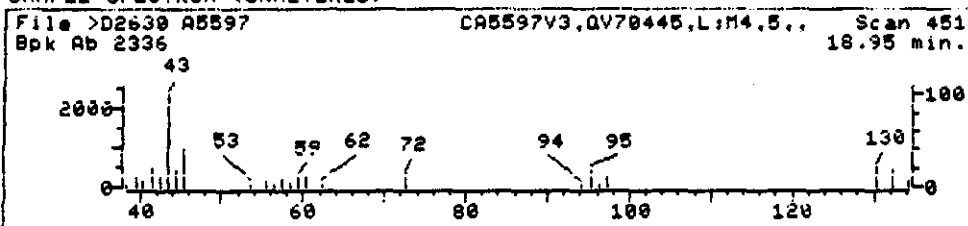
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)



Data File: >D2630::U1

Quant Output File: ^D2630::AU

Name: A5597

Misc: CA5597V3,QV70445,L:M4,5,,

Quant Time: 910115 23:01

Quant ID File: 100310::S2

Injected at: 910115 22:22

Last Calibration: 910114 11:09

Compound No: 29

Compound Name: Trichloroethylene

Scan Number: 451

Retention Time: 18.95 min.

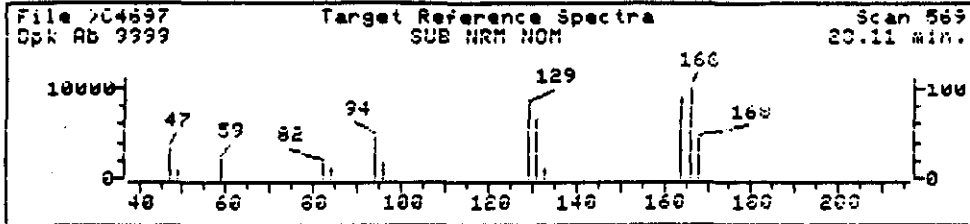
Quant Ion: 130.0

Area: 5911

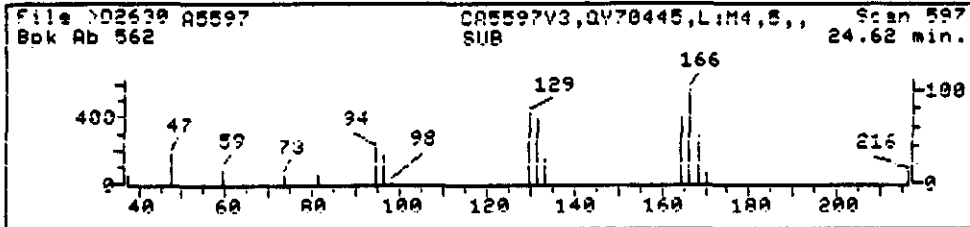
Concentration: 11.85 NG

q-value: 88

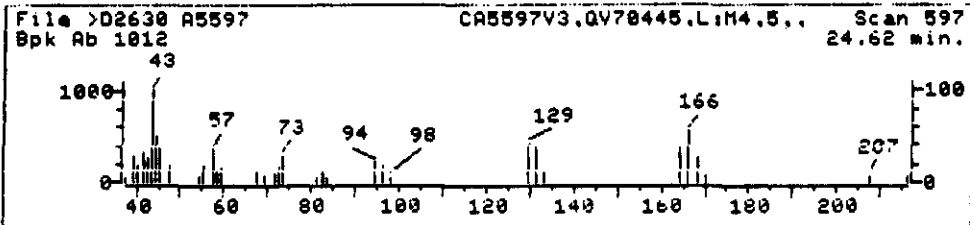
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)



Data File: >D2630::U1

Quant Output File: ^D2630::AQ

Name: A5597

Misc: CA5597V3,QV70445,L:M4,5,,

Quant Time: 910115 23:01

Quant ID File: 1D0310::S5

Injected at: 910115 22:22

Last Calibration: 910114 11:09

Compound No: 41

Compound Name: Tetrachloroethylene

Scan Number: 597

Retention Time: 24.62 min.

Quant Ion: 164.0

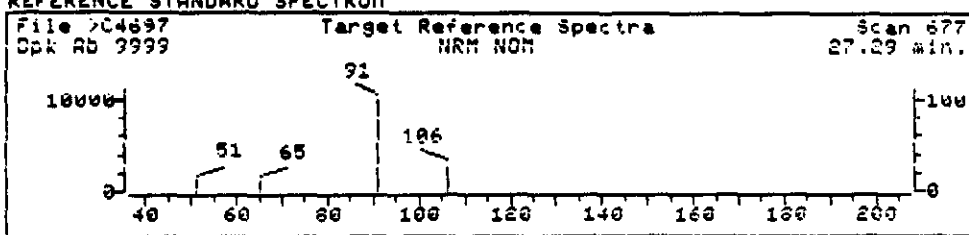
Area: 4909

Concentration: 10.71 NG

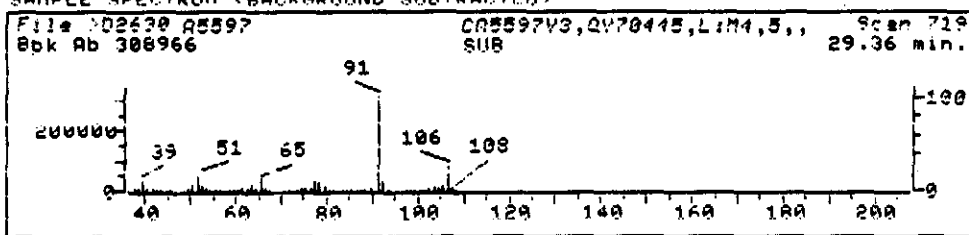
q-value: 96

741

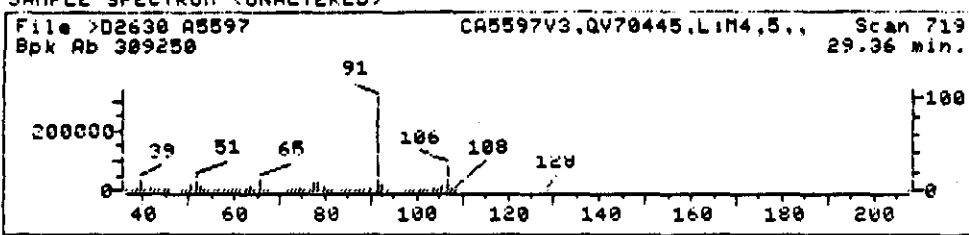
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)

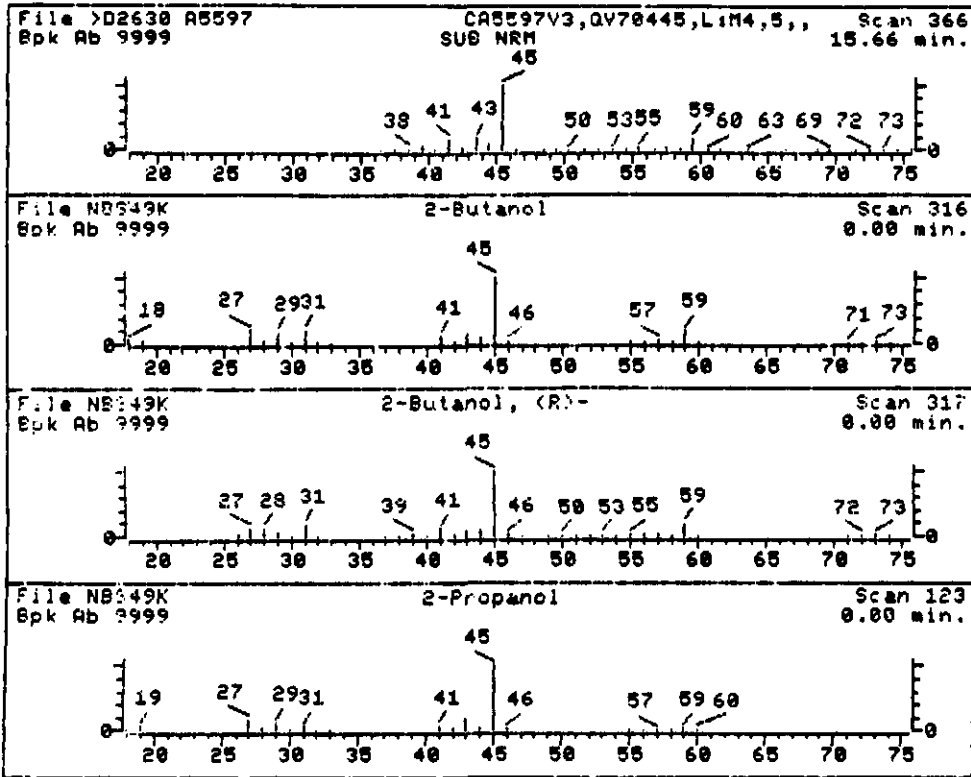


SAMPLE SPECTRUM (UNALTERED)



Data File: >D2630::U1 Quant Output File: >D2630::AQ
 Name: A5597
 Misc: CA5597V3,QV70445,L:M4,5,,
 Quant Time: 910115 23:01 Quant ID File: ID0310::S5
 Injected at: 910115 22:22 Last Calibration: 910114 11:09

Compound No: 45
 Compound Name: Ethylbenzene
 Scan Number: /19
 Retention Time: 29.36 min.
 Quant Ion: 106.0
 Area: 1588249
 Concentration: 3828.25 NG
 q-value: 76

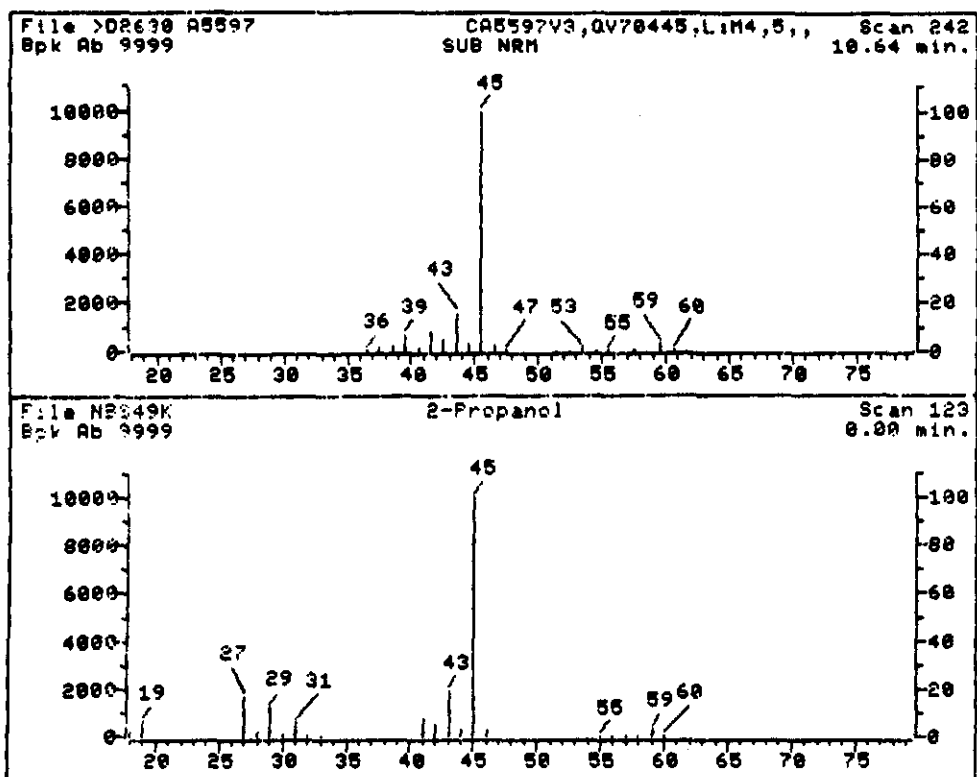


Data File: >D2630::U1
 Name: A5597
 Misc Data: CA5597U3,QU70445,L:M4,5,,
 RT (min): 15.66
 Scan: 366
 Area: 62844864 Rank: 3
 Semi-quantitative Conc (uncorrected): 25607.61 NG
 Semi-quantitative Conc (corrected): 5121.52 ug/l
 Calculated using Istd: Bromochloromethane @ 11.61 minutes

- | | |
|--------------------|-----------|
| 1. 2-Butanol | 74 C4H10O |
| 2. 2-Butanol, (R)- | 74 C4H10O |
| 3. 2-Propanol | 60 C3H8O |

Sample file: >D2630 Spectrum #: 366
 Search speed: 2 Tilting option: S No. of ion ranges searched: 4

| | Prob. | CAS # | CON # | ROOT | K | DK | #FLG | TIL | % | CON | C_I | R_IV |
|----|-------|----------|-------|--------|----|----|------|-----|----|-----|-----|------|
| 1. | 79 | 78922 | 1715 | NBS49K | 56 | 27 | 0 | 0 | 71 | 8 | 48 | 34 |
| 2. | 67 | 14898794 | 1716 | NBS49K | 40 | 40 | 0 | 0 | 82 | 12 | 34 | 20 |
| 3. | 48* | 67630 | 331 | NBS49K | 27 | 40 | 0 | 0 | 75 | 25 | 17 | 1- |



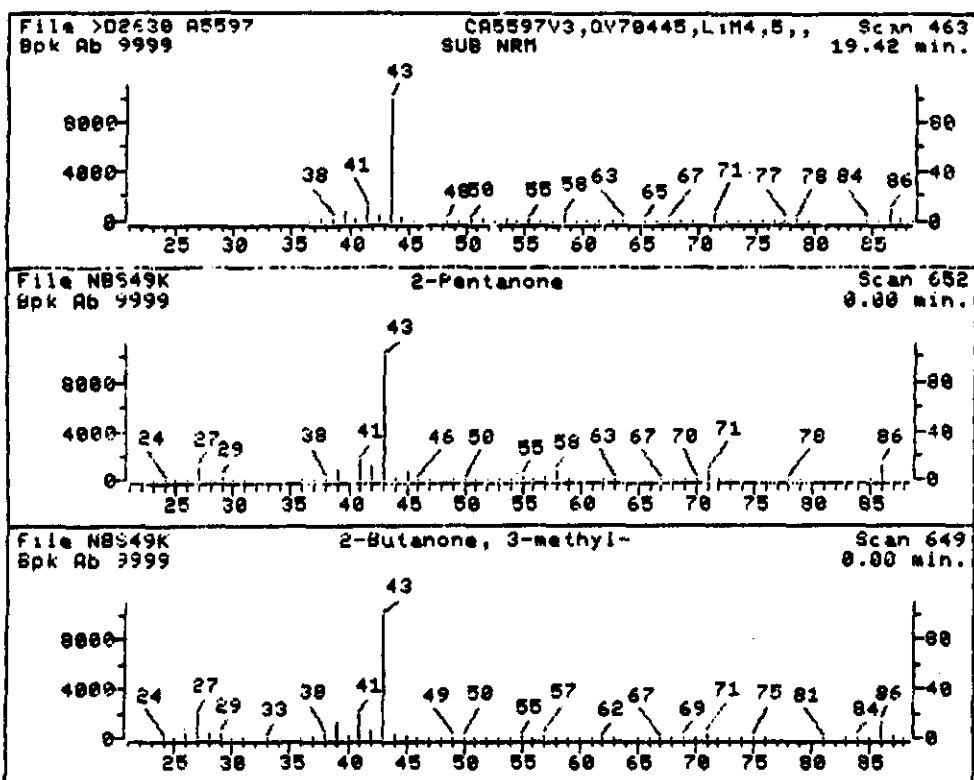
Data File: >D2630::U1
 Name: A5597
 Misc Data: CA5597U3, QV70445, L:M4,5,,
 RT (min): 10.64
 Scan: 242
 Area: 32081676 Rank: 6
 Semi-quantitative Conc (uncorrected): 13072.43 NG
 Semi-quantitative Conc (corrected): 2614.49 ug/l
 Calculated using Istd: Bromochloromethane @ 11.61 minutes

1. 2-Propanol

60 C3H8O

Sample file: >D2630 Spectrum #: 242
 Search speed: 2 Tilting option: S No. of ion ranges searched: 4

| Prob. | CAS # | CON # | ROOT | K | DK | #FLG | TILT | % | CON | C | I | R | IO |
|-------|-------|-------|------|--------|----|------|------|---|-----|----|----|----|----|
| 1. | 76* | 67630 | 331 | NBS49K | 41 | 26 | 0 | 0 | 70 | 11 | 40 | 50 | |

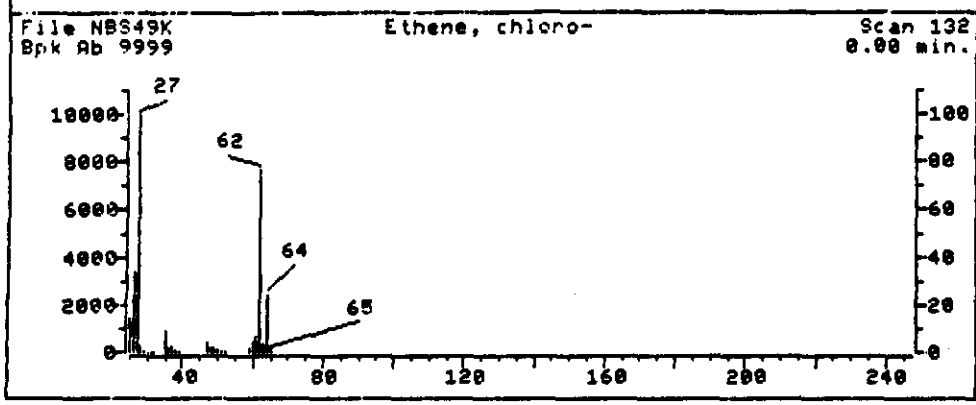
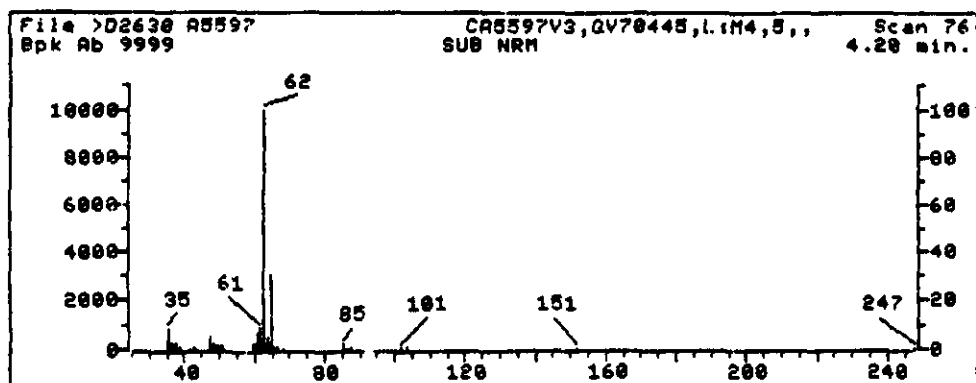


Data File: >D2630::U1
 Name: A5597
 Misc Data: CA5597U3, QV70445, L:M4,5,,
 RT (min): 19.42
 Scan: 463
 Area: 9887756 Rank: 11
 Semi-quantitative Conc (uncorrected): 503.44 NG
 Semi-quantitative Conc (corrected): 100.69 ug/l
 Calculated using Istd: 1,4-Difluorobenzene @ 22.10 minutes

- | | |
|--------------------------|-----------|
| 1. 2-Pentanone | 86 C5H10O |
| 2. 2-Butanone, 3-methyl- | 86 C5H10O |

Sample file: >D2630 Spectrum #: 463
 Search speed: 2 Tilting option: S No. of ion ranges searched: 45

| | Prob. | CAS # | CON # | ROOT | K | DK | #FLG | TILT | % | CON | C...I | R...I |
|----|-------|--------|-------|--------|----|----|------|------|----|-----|-------|-------|
| 1. | 70* | 107879 | 6962 | NBS49K | 34 | 40 | 2 | 0 | 75 | 8 | 42 | 12 |
| 2. | 25* | 563804 | 6960 | NBS49K | 21 | 52 | 1 | 0 | 52 | 47 | 7 | 14 |

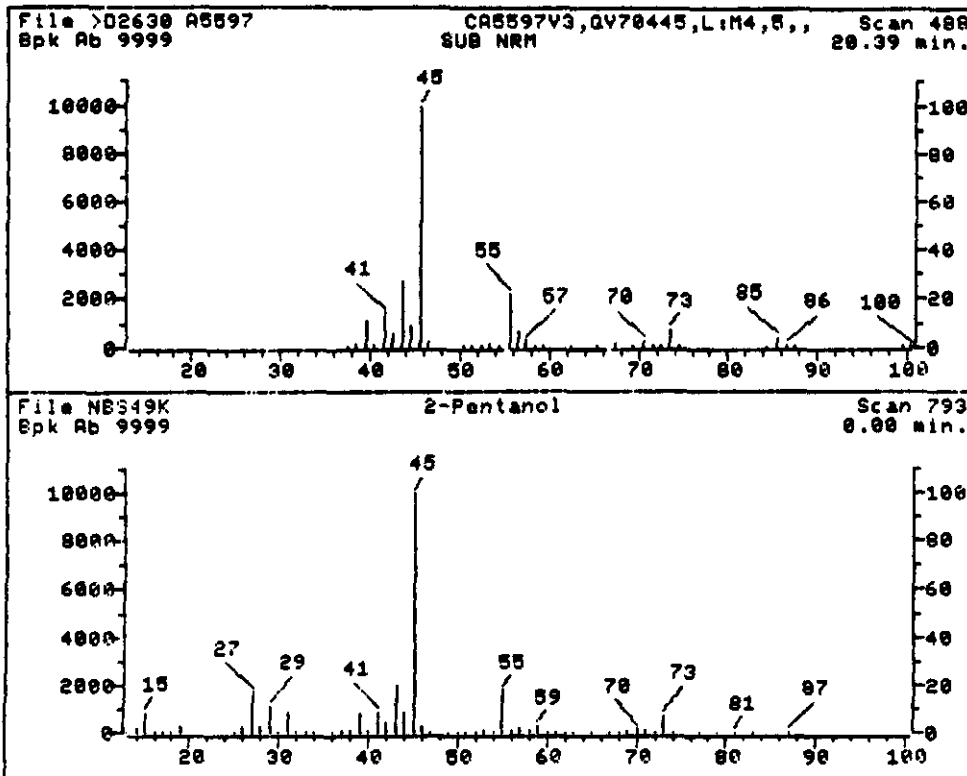


Data File: >D2630::U1
 Name: A5597
 Misc Data: CA5597V3, QV70445, L: M4, 5,,
 RT (min): 4.20
 Scan: 76
 Area: 3587900 Rank: 12
 Semi-quantitative Conc (uncorrected): 1461.97 NG
 Semi-quantitative Conc (corrected): 292.39 ug/l
 Calculated using Istd: Bromochloromethane @ 11.61 minutes

1. Ethene, chloro- 62 C2H3Cl

Sample file: >D2630 Spectrum #: 76
 Search speed: 2 Tilting option: S No. of ion ranges searched: 44

| | Prob. | CAS # | CON # | ROOT | K | DK | #FLG | TILT | % | CON | C | I | P | IO |
|----|-------|-------|-------|--------|----|----|------|------|----|-----|----|---|---|----|
| 1. | 80* | 75014 | 2337 | NBS49K | 65 | 38 | 0 | 0 | 86 | 30 | 37 | 7 | | |



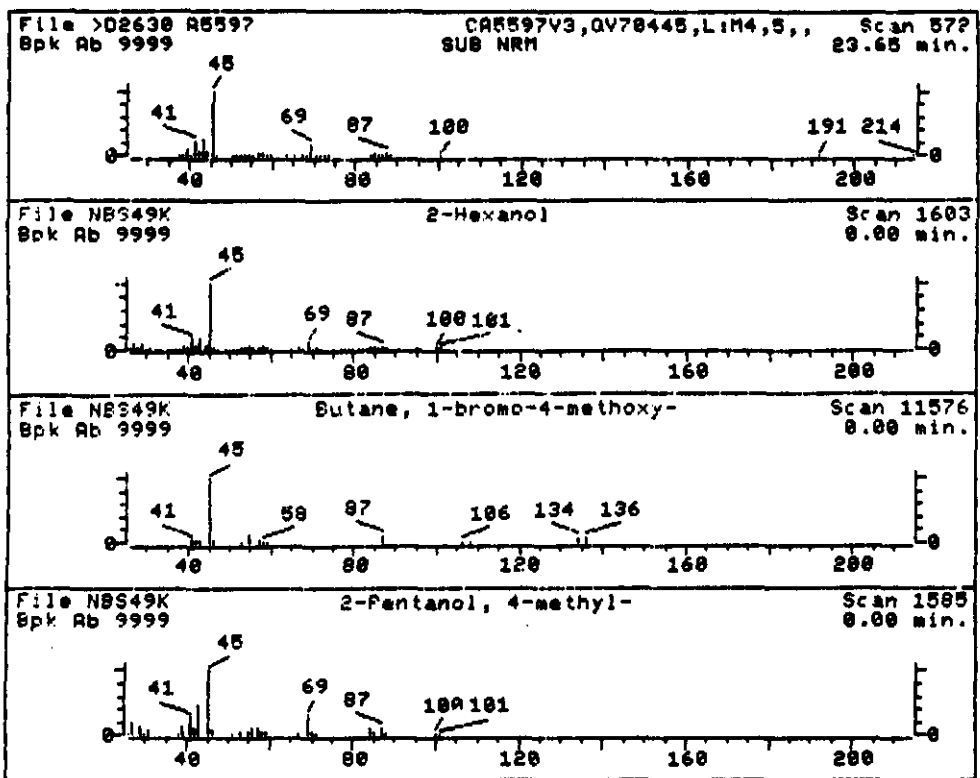
Data File: >D2630::U1
 Name: A5597
 Misc Data: CA5597U3,QV70445,L:M4,5,,
 RT (min): 20.39
 Scan: 488
 Area: 1500758 Rank: 13
 Semi-quantitative Conc (uncorrected): 76.41 NG
 Semi-quantitative Conc (corrected): 15.28 ug/l
 Calculated using Istd: 1,4-Difluorobenzene @ 22.10 minutes

1. 2-Pentanol

88 C5H12O

Sample file: >D2630 Spectrum #: 488
 Search speed: 2 Tilting option: S No. of ion ranges searched: 46

| Prob. | CAS # | CON # | ROOT | K | DK | #FLG | TILT | % | CON | C_I | R_IV | |
|-------|-------|---------|------|--------|----|------|------|---|-----|-----|------|----|
| 1. | 60 | 6032297 | 344 | NBS49K | 51 | 26 | 1 | 0 | 100 | 15 | 30 | 19 |

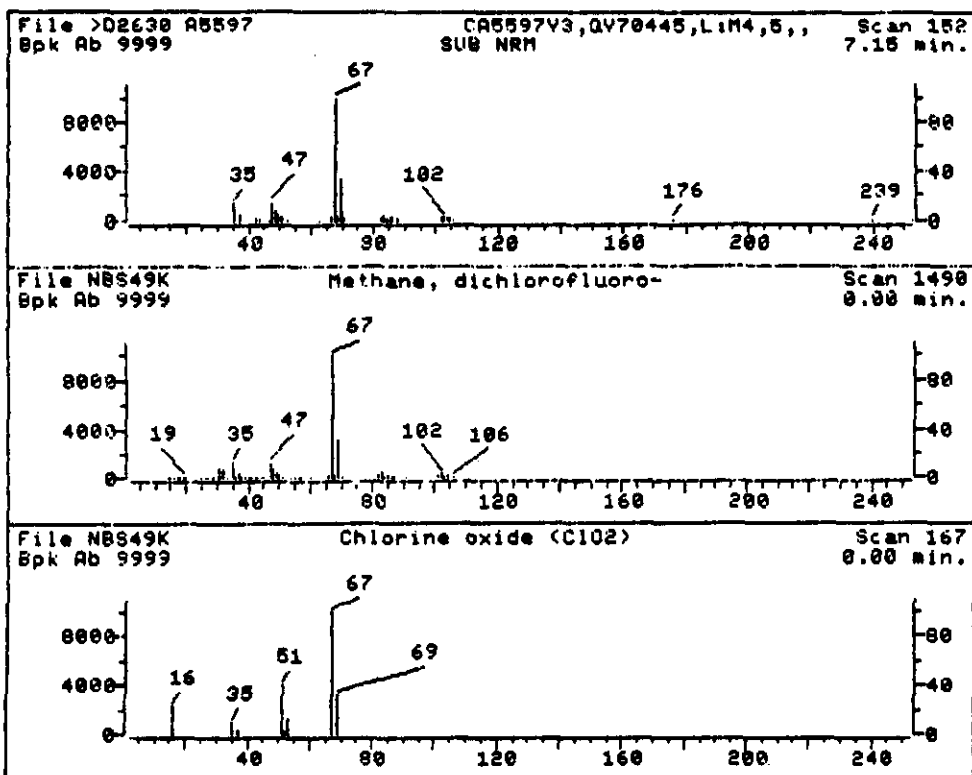


Date File: >D2630::U1
 Name: A5597
 Misc Data: CA5597U3,QU70445,L:M4,5,,
 RT (min): 23.65
 Scan: 572
 Area: 1189399 Rank: 15
 Semi-quantitative Conc (uncorrected): 60.56 NG
 Semi-quantitative Conc (corrected): 12.11 ug/l
 Calculated using Istd: 1,4-Difluorobenzene @ 22.10 minutes

- | | |
|-------------------------------|--------------|
| 1. 2-Hexanol | 102 C6H14O |
| 2. Butane, 1-bromo-4-methoxy- | 166 C5H11BrO |
| 3. 2-Pentanol, 4-methyl- | 102 C6H14O |

Sample file: >D2630 Spectrum #: 572
 Search speed: 2 Tilting option: S No. of ion ranges searched: 40

| | Prob. | CAS # | CON # | ROOT | K | DK | #FLG | TILT | % | CON | C_I | R_IV |
|----|-------|---------|-------|--------|----|----|------|------|-----|-----|-----|------|
| 1. | 70 | 626937 | 348 | NBS49K | 41 | 34 | 2 | 0 | 100 | 8 | 42 | 14 |
| 2. | 52 | 4457674 | 7414 | NBS49K | 35 | 42 | 2 | 0 | 100 | 19 | 20 | 12 |
| 3. | 15 | 108112 | 7235 | NBS49K | 31 | 34 | 0 | 0 | 25 | 59 | 3 | 10 |

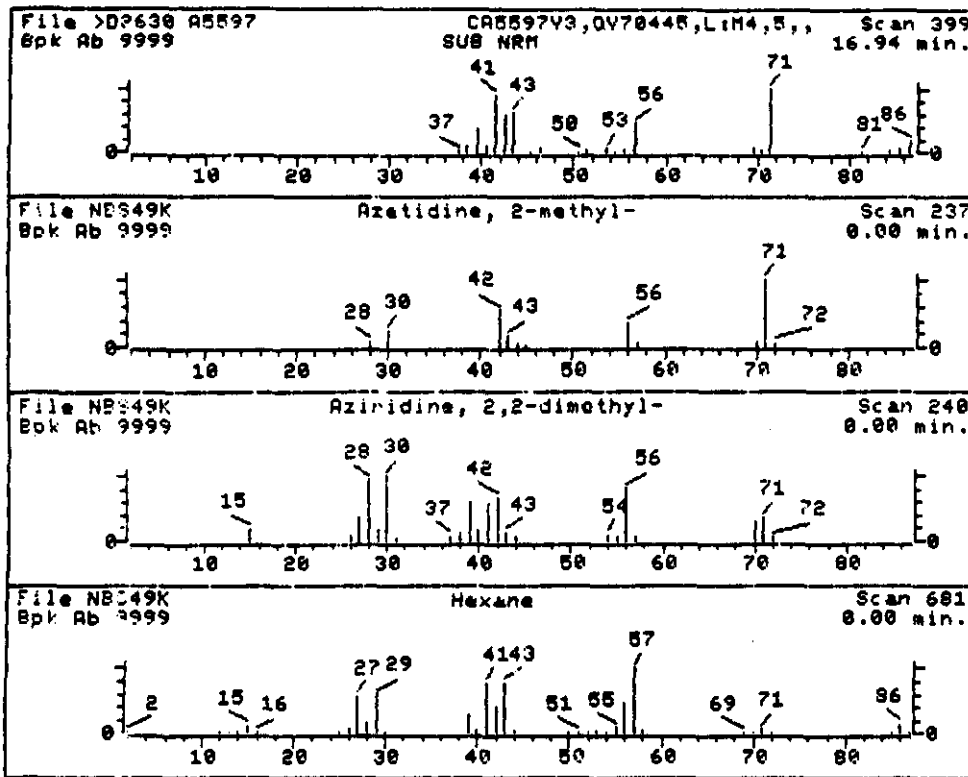


Data File: >D2630::U1
 Name: A5597
 Misc Data: CA5597U3,QU70445,L:M4,5,,
 RT (min): 7.15
 Scan: 152
 Area: 487296 Rank: 16
 Semi-quantitative Conc (uncorrected): 198.56 NG
 Semi-quantitative Conc (corrected): 39.71 ug/l
 Calculated using lstd: Bromochloromethane @ 11.61 minutes

- 1. Methane, dichlorofluoro- 102 CHCl2F
- 2. Chlorine oxide (ClO2) 67 ClO2

Sample file: >D2630 Spectrum #: 152
 Search speed: 2 Tilting option: S No. of ion ranges searched: 44

| | Prob. | CAS # | CON # | ROOT | K | DK | #FLG | TILT | % | CON | C | I | R..IU |
|----|-------|----------|-------|--------|----|----|------|------|-----|-----|----|----|-------|
| 1. | 96* | 75434 | 3473 | NBS49K | 94 | 0 | 0 | 2 | 84 | 2 | 72 | 94 | |
| 2. | 43* | 10049044 | 3443 | NBS49K | 29 | 28 | 3 | 0 | 100 | 24 | 17 | 14 | |



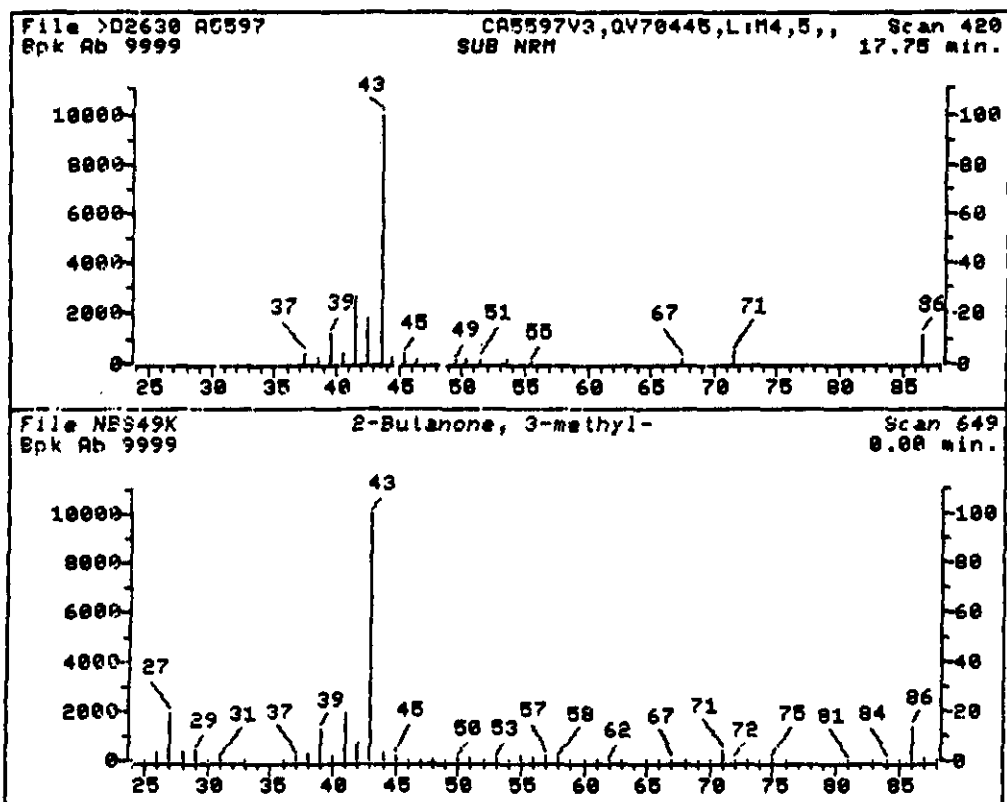
Data File: >D2630::U1
 Name: A5597
 Misc Data: CA5597U3,QU70445,L:M4,5,,
 RT (min): 16.94
 Scan: 399
 Area: 381835 Rank: 17
 Semi-quantitative Conc (uncorrected): 19.44 NG
 Semi-quantitative Conc (corrected): 3.89 ug/l
 Calculated using Istd: 1,4-Difluorobenzene @ 22.10 minutes

- | | |
|-----------------------------|----------|
| 1. Azetidine, 2-methyl- | 71 C4H9N |
| 2. Aziridine, 2,2-dimethyl- | 71 C4H9N |
| 3. Hexane | 86 C6H14 |

Sample file: >D2630 Spectrum #: 399
 Search speed: 2 Tilting option: S No. of ion ranges searched: 46

| | Prob. | CAS # | CON # | ROOT | K | DK | #FLG | TILT | % | CON | C | R_I |
|----|-------|----------|-------|--------|----|----|------|------|-----|-----|----|-----|
| 1. | 31* | 19812498 | 4253 | NBS49K | 24 | 38 | 2 | 0 | 100 | 34 | 12 | 14 |
| 2. | 28* | 2658244 | 1004 | NBS49K | 26 | 83 | 2 | 0 | 56 | 36 | 10 | 14 |
| 3. | 11* | 110543 | 6971 | NBS49K | 30 | 66 | 3 | 0 | 103 | 61 | 2 | 13 |

150



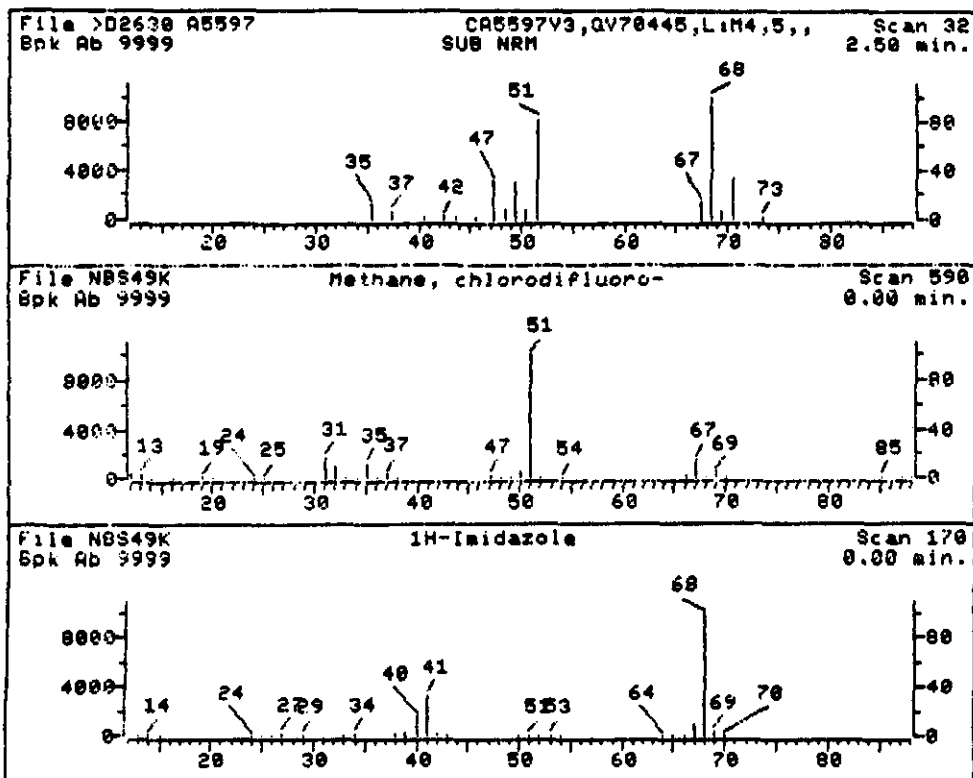
Data File: >D2630::U1
 Name: A5597
 Misc Data: CA5597V3,QU70445,L:M4,5,,
 RT (min): 17.75
 Scan: 420
 Area: 122584 Rank: 18
 Semi-quantitative Conc (uncorrected): 6.24 NG
 Semi-quantitative Conc (corrected): 1.25 ug/l
 Calculated using Istd: 1,4-Difluorobenzene @ 22.10 minutes

1. 2-Butanone, 3-methyl-

86 C5H10O

Sample file: >D2630 Spectrum #: 420
 Search speed: 2 Tilting option: S No. of ion ranges searched: 40

| Prob. | CAS # | CON # | ROOT | K | DK | #FLG | TILT | % | CON | C | I | R | IO |
|-------|-------|--------|------|--------|----|------|------|---|-----|----|----|----|----|
| 1. | 60* | 563804 | 6960 | NBS49K | 21 | 52 | 2 | 0 | 86 | 15 | 30 | 13 | |



Data File: >D2630::U1
 Name: A5597
 Misc Data: CA5597U3,QU70445,L:M4,5,,
 RT (min): 2.50
 Scan: 32
 Area: 117128 Rank: 19
 Semi-quantitative Conc (uncorrected): 47.73 NG
 Semi-quantitative Conc (corrected): 9.55 ug/l
 Calculated using Istd: Bromochloromethane @ 11.61 minutes

- 1. Methane, chlorodifluoro- 86 CHClF2
- 2. 1H-Imidazole 68 C3H4N2

Sample file: >D2630 Spectrum #: 32
 Search speed: 2 Tilting option: S No. of ion ranges searched: 44

| | Prob. | CAS # | CON # | ROOT | K | DK | #FLG | TILT | % | CON | C_I | R_IV |
|----|-------|--------|-------|--------|----|----|------|------|-----|-----|-----|------|
| 1. | 20 | 75456 | 475 | NBS49K | 42 | 49 | 2 | 0 | 82 | 53 | 5 | 12 |
| 2. | 11* | 288324 | 3526 | NBS49K | 23 | 44 | 3 | 0 | 100 | 64 | 2 | 15 |

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE ID:

ASPT02EDL

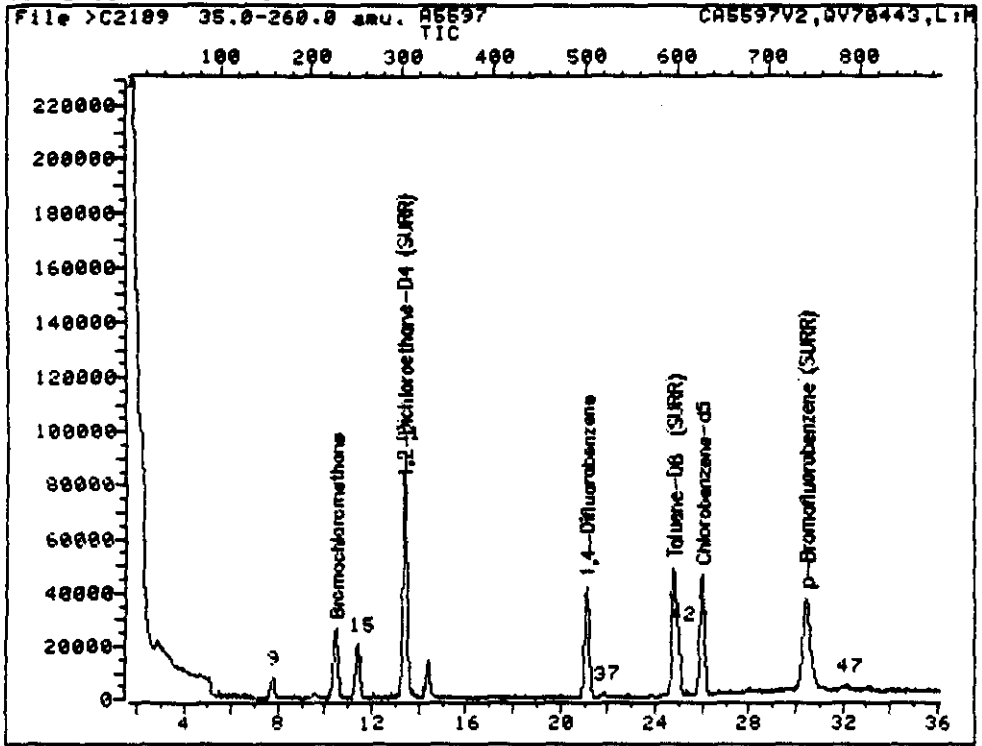
Lab Name: ETONG Contract:
 Lab Code: Case No.: SAS No.: 505 311 103941
 Matrix: (soil/water) WATER Lab Sample ID: CASPT02EDL

Sample wt/vol: .005 (g/mL) mL Lab File ID: 60139
 Level: 1.000/med LOD: Date Received: 01 8 91
 % Moisture: not dec. Date Analyzed: 11 21 91
 Column: (pack/ass) PAC# Dilution Factor: 1000

CAS NO. COMPOUND CONCENTRATION UNITS: UG/L or UG/Kg UG/L

| CAS NO. | COMPOUND | CONCENTRATION UNITS: UG/L or UG/Kg | UG/L |
|------------|----------------------------|------------------------------------|------|
| 74-87-3 | Chloromethane | 10000 | 10 |
| 74-83-9 | Bromomethane | 10000 | 10 |
| 76-01-4 | Vinyl Chloride | 10000 | 10 |
| 75-00-3 | Chloroethane | 10000 | 10 |
| 75-09-2 | Methylene Chloride | 5000 | 5 |
| 67-64-1 | Acetone | 110000 | 11 |
| 75-15-0 | Carbon Disulfide | 5000 | 5 |
| 75-35-4 | 1,1-Dichloroethene | 5000 | 5 |
| 76-34-3 | 1,1-Dichloroethane | 5000 | 5 |
| 540-59-0 | 1,2-Dichloroethene (total) | 5000 | 5 |
| 67-66-3 | Chloroform | 5000 | 5 |
| 107-06-2 | 1,2-Dichloroethane | 5000 | 5 |
| 78-93-3 | 2-Butanone | 740000 | 74 |
| 71-55-6 | 1,1,1-Trichloroethane | 5000 | 5 |
| 56-23-5 | Carbon Tetrachloride | 5000 | 5 |
| 109-06-4 | Vinyl Acetate | 10000 | 10 |
| 75-27-4 | Bromodichloromethane | 5000 | 5 |
| 78-37-5 | 1,2-Dichloropropane | 5000 | 5 |
| 10061-01-5 | cis-1,3-Dichloropropene | 5000 | 5 |
| 79-01-6 | Trichloroethene | 5000 | 5 |
| 124-48-1 | Dibromochloromethane | 5000 | 5 |
| 79-00-5 | 1,1,2-Trichloroethane | 5000 | 5 |
| 71-43-2 | Benzene | 5000 | 5 |
| 10061-02-6 | trans-1,3-Dichloropropene | 5000 | 5 |
| 75-26-2 | Bromoform | 5000 | 5 |
| 108-16-1 | 4-Methyl-2-Pentanone | 3400 | 3.4 |
| 591-78-6 | 2-Hexanone | 100000 | 10 |
| 127-18-4 | Tetrachloroethene | 5000 | 5 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 5000 | 5 |
| 108-88-3 | Toluene | 18000 | 18 |
| 108-90-7 | Chlorobenzene | 5000 | 5 |
| 109-41-4 | Ethylbenzene | 5000 | 5 |
| 100-42-5 | Styrene | 5000 | 5 |
| 1330-20-7 | Xylene (total) | 5000 | 5 |
| | | | 150 |

TOTAL ION CHROMATOGRAM



Data File: >C2189::U1 Quant Output File: ^C2189::AQ

Name: A5597RE RE S
Misc: CA5597V2, QU7044X, L:M4, 0.005,,
AP 1/20/01

Id File: IC1204::SS
Title: IFB, PP/VOA, XVOA13
Last Calibration: 910118 11:53

Operator ID: KB6656
Quant Time: 910118 15:48
Injected at: 910118 15:11

QUANT REPORT

Page 1

Operator ID: KB6656
 Output File: ^C2189::AQ
 Data File: >C2189::U1

Quant Rev: 7 Quant Time: 910118 15:48
 Injected at: 910118 15:11
 Dilution Factor: 1.00000

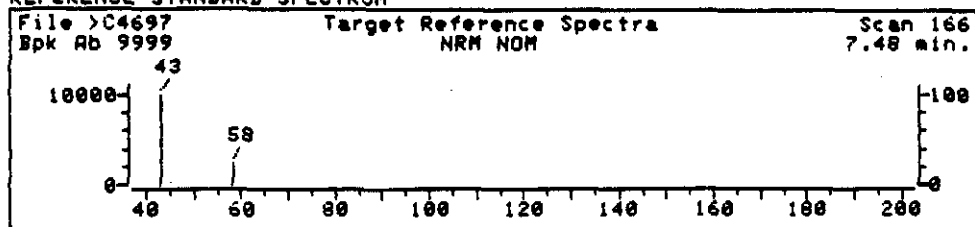
Name: A5597RE
 Misc: CA5597U2, QU70443, L:M4, 0.005,,
 AP 1/29/91

ID File: IC1204::SS
 Title: IFB, PP/VOA, XVOA13
 Last Calibration: 910118 11:53

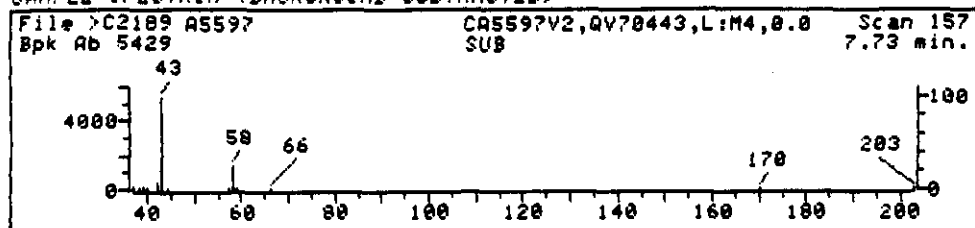
| Compound | R.T. | Scan# | Area | Conc | Units | q |
|----------------------------------|-------|-------|--------|---------|-------|-----|
| 1) *Bromochloromethane | 10.45 | 227 | 53493 | 250.00 | NG | 98 |
| 9) Acetone | 7.73 | 157 | 73348 | 526.64 | NG | 99 |
| 15) Tetrahydrofuran | 11.38 | 251 | 81163 | 1176.64 | NG | 100 |
| 18) 1,2-Dichloroethane-D4 (SURR) | 13.35 | 302 | 76085 | 219.62 | NG | 81 |
| 20) *1,4-Difluorobenzene | 21.10 | 502 | 228455 | 250.00 | NG | 90 |
| 21) Methyl ethyl ketone | 13.39 | 303 | 121773 | 3686.11 | NG | 99 |
| 36) *Chlorobenzene-d5 | 26.00 | 628 | 184232 | 250.00 | NG | 92 |
| 37) Methyl-iso-butyl ketone | 21.80 | 520 | 7758 | 17.19 | NG | 94 |
| 41) Toluene-DB (SURR) | 24.79 | 597 | 223105 | 190.67 | NG | 92 |
| 42) Toluene | 24.98 | 602 | 60709 | 90.97 | NG | 96 |
| 45) p-Bromofluorobenzene (SURR) | 30.42 | 742 | 122744 | 193.08 | NG | 82 |
| 47) m-Xylene | 32.12 | 786 | 4846 | 9.42 | NG | 94 |

* Compound is ISTD

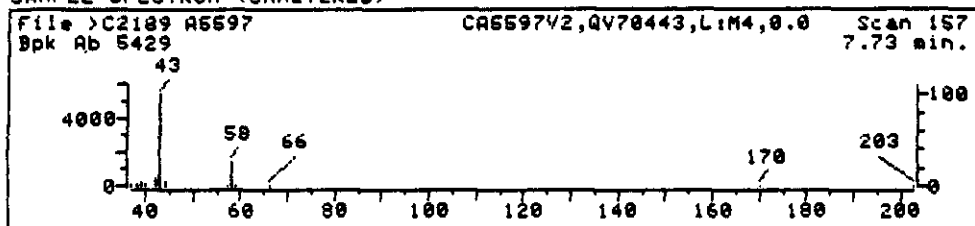
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



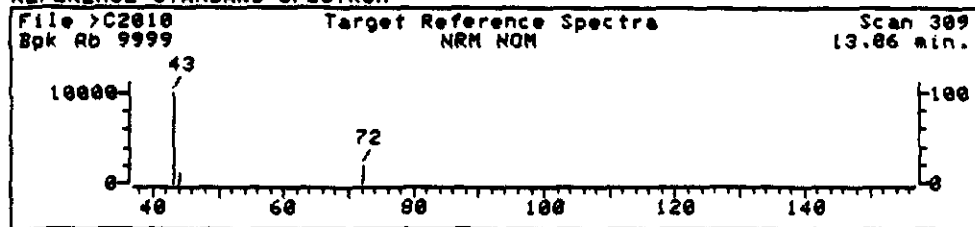
SAMPLE SPECTRUM (UNALTERED)



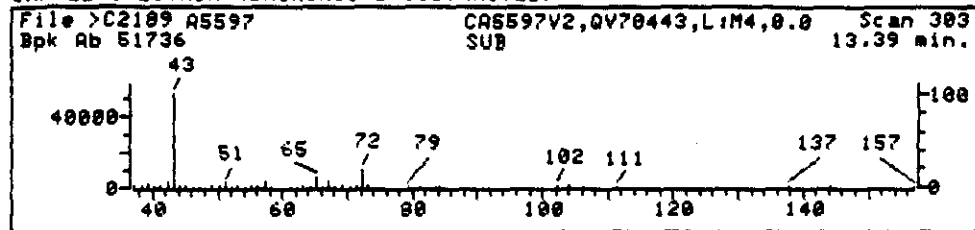
Data File: >C2189::U1 Quant Output File: ^C2189::AQ
 Name: A5597 *RE RE* *S M 157 min*
 Misc: CA5597V2,QV70443,L:M4,0.005,,
 Quant Time: 910118 15:48 Quant ID File: IC1204::SS
 Injected at: 910118 15:11 Last Calibration: 910118 11:53

Compound No: 9
 Compound Name: Acetone
 Scan Number: 157
 Retention Time: 7.73 min.
 Quant Ion: 43.0
 Area: 73348
 Concentration: 526.64 NG
 q-value: 99

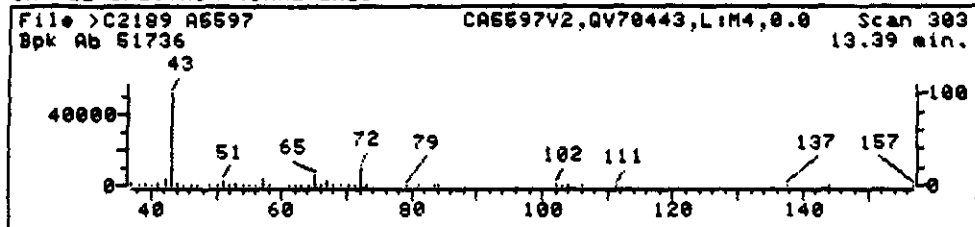
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



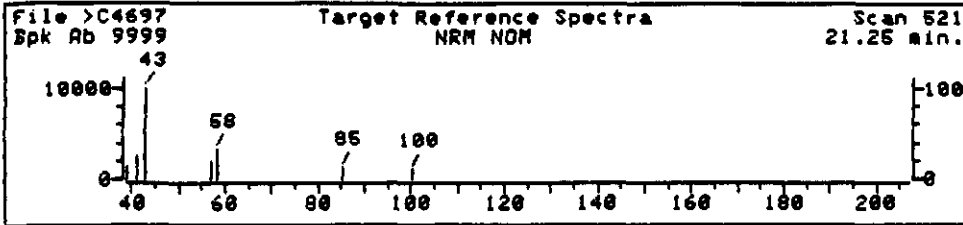
SAMPLE SPECTRUM (UNALTERED)



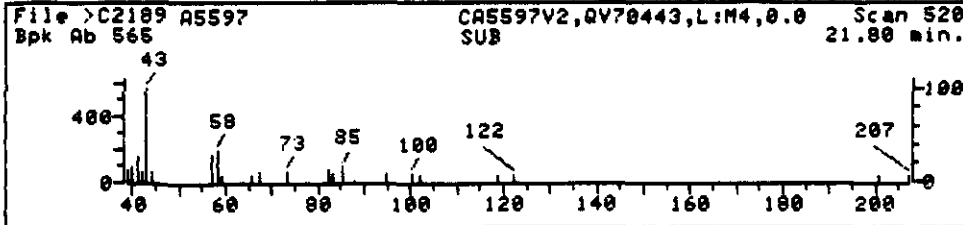
Data File: >C2189::U1 Quant Output File: ^C2189::AQ
 Name: A5597RE AS S.M. (handwritten)
 Misc: CA5597V2,QV70443,L:M4,0.005,,
 Quant Time: 910118 15:48 Quant ID File: IC1204::SS
 Injected at: 910118 15:11 Last Calibration: 910118 11:53

Compound No: 21
 Compound Name: Methyl ethyl ketone
 Scan Number: 303
 Retention Time: 13.39 min.
 Quant Ion: 72.0
 Area: 121773
 Concentration: 3686.11 NG
 q-value: 99

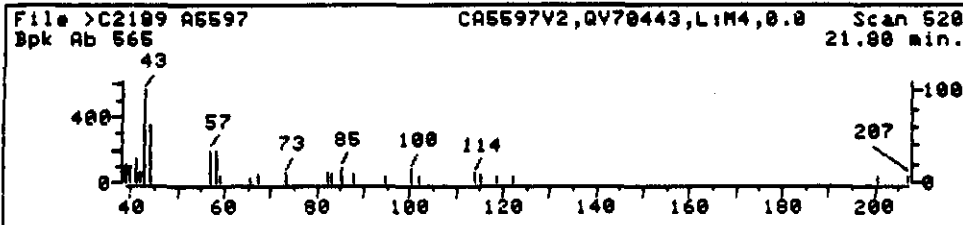
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



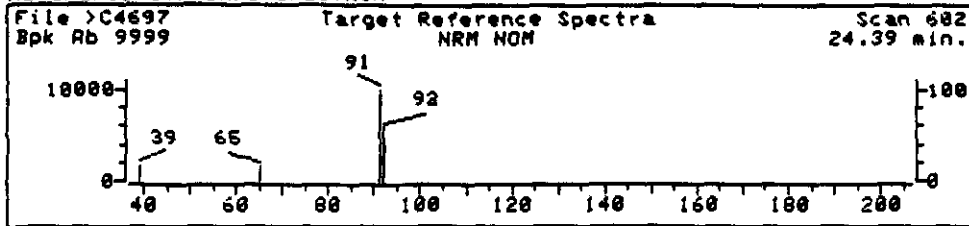
SAMPLE SPECTRUM (UNALTERED)



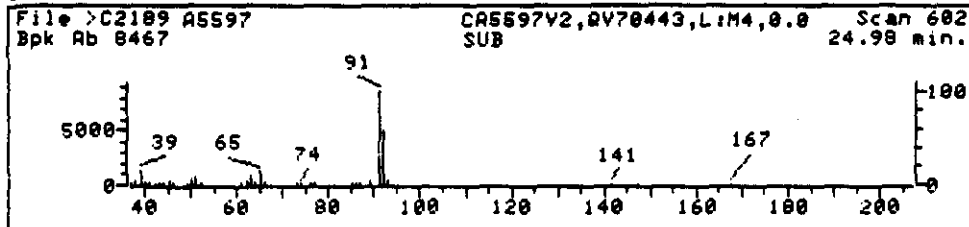
Data File: >C2189::U1 Quant Output File: ^C2189::AQ
 Name: A5597RE RE S P 11/14
 Misc: CA5597U2, QV70443, L:M4, 0.005,,
 Quant Time: 910118 15:48 Quant ID File: IC1204::SS
 Injected at: 910118 15:11 Last Calibration: 910118 11:53

Compound No: 37
 Compound Name: Methyl-iso-butyl ketone
 Scan Number: 520
 Retention Time: 21.80 min.
 Quant Ion: 43.0
 Area: 7758
 Concentration: 17.19 NG
 q-value: 94

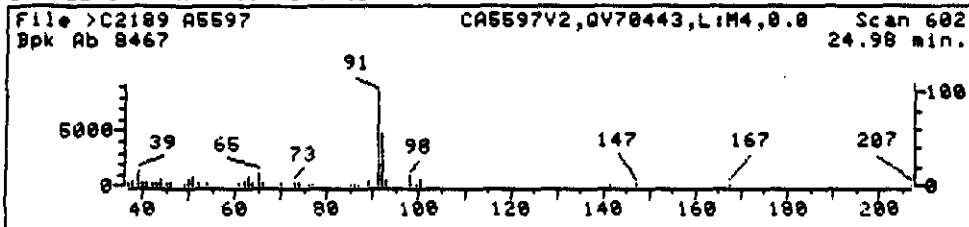
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



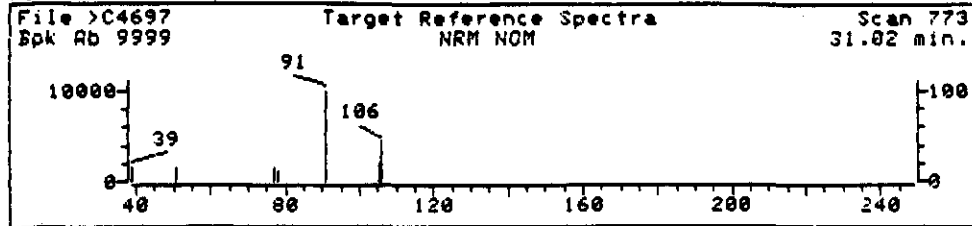
SAMPLE SPECTRUM (UNALTERED)



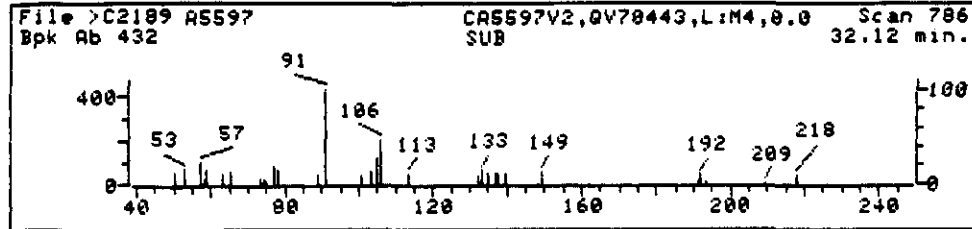
Data File: >C2189::U1 Quant Output File: ^C2189::AQ
 Name: A5597RE AS S/P 10/11/11
 Misc: CA5597V2, QV70443, L:M4, 0.005,,
 Quant Time: 910118 15:48 Quant ID File: IC1204::SS
 Injected at: 910118 15:11 Last Calibration: 910118 11:53

Compound No: 42
 Compound Name: Toluene
 Scan Number: 602
 Retention Time: 24.98 min.
 Quant Ion: 92.0
 Area: 60709
 Concentration: 90.97 NG
 q-value: 96

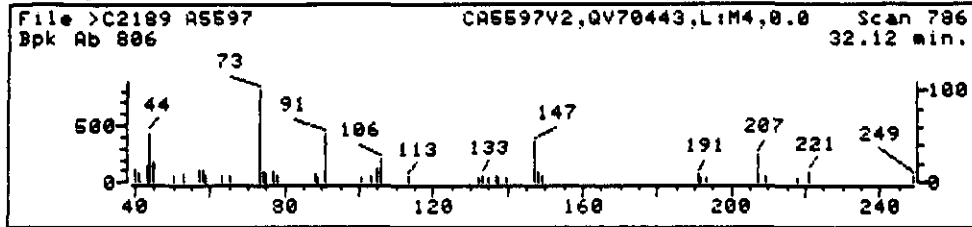
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



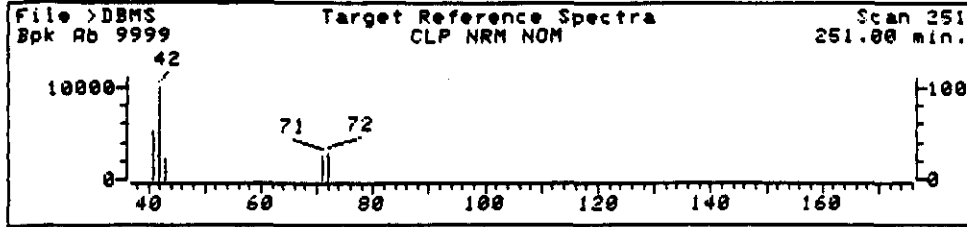
SAMPLE SPECTRUM (UNALTERED)



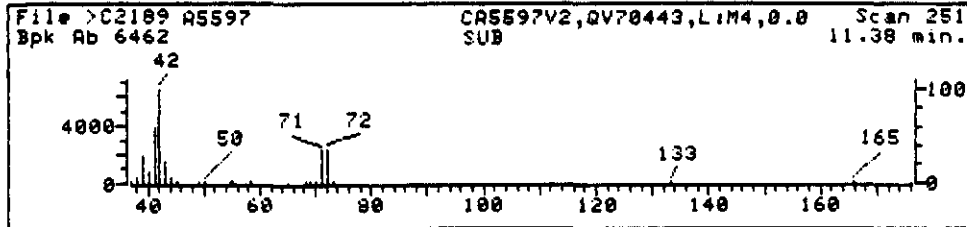
Data File: >C2189::U1 Quant Output File: ^C2189::AQ
 Name: A5597^{RE} Misc: CA5597V2,QV70443,L:M4,0.005,,
 Quant Time: 910118 15:48 Quant ID File: IC1204::SS
 Injected at: 910118 15:11 Last Calibration: 910118 11:53

Compound No: 47
 Compound Name: m-Xylene
 Scan Number: 786
 Retention Time: 32.12 min.
 Quant Ion: 106.0
 Area: 4846
 Concentration: 9.42 NG
 q-value: 94

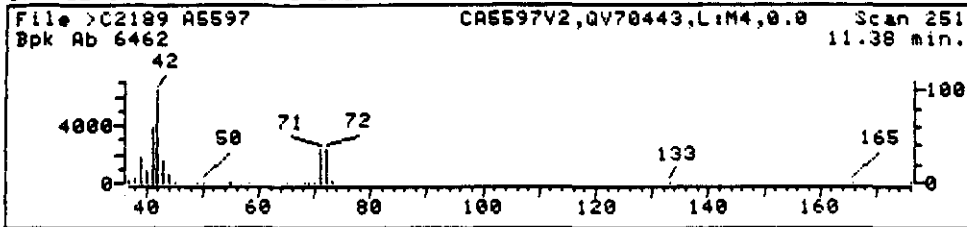
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)



Data File: >C2189::U1 Quant Output File: ^C2189::AQ
 Name: A5597^{RS} ^{AS}
 Misc: CA5597U2,QV70443,L:M4,0.005,,
 Quant Time: 910118 15:48 Quant ID File: IC1204::SS
 Injected at: 910118 15:11 Last Calibration: 910118 11:53

Compound No: 15
 Compound Name: Tetrahydrofuran
 Scan Number: 251
 Retention Time: 11.38 min.
 Quant Ion: 42.0
 Area: 81163
 Concentration: 1176.64 NG
 q-value: 100

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

45599

Lab Name: ETEND

Contract:

Lab Code:

Case No.:

SAS No.:

SDS No.:

Matrix: (soil/water) WATER

Lab Sample ID: CH559902

Sample wt/vol: 5.0 (g/mL) mL

Lab File ID: 02188

Level: (low/med) LOW

Date Received: 01 8 91

% Moisture: not det.

Date Analyzed: 01 18 91

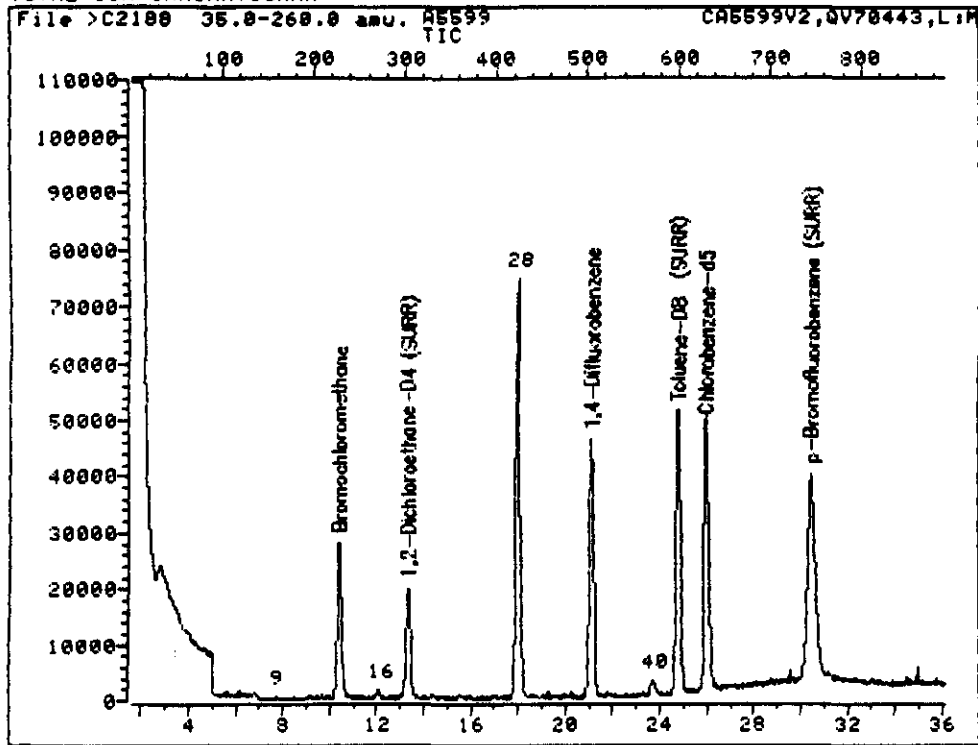
Column: (pack/lead) PAC1

Dilution Factor: 1

| CAS NO. | COMPOUND | CONCENTRATION UNITS: | | Q |
|------------|----------------------------|----------------------|------|---|
| | | ug/L or ug/Kg | UG/L | |
| 74-87-3 | Chloromethane | 10 | 10 | |
| 74-83-9 | Bromomethane | 10 | 10 | |
| 75-01-4 | Vinyl Chloride | 10 | 10 | |
| 75-09-3 | Chloroethane | 10 | 10 | |
| 75-09-2 | Methylene Chloride | 10 | 10 | |
| 67-64-1 | Acetone | 10 | 10 | |
| 75-15-0 | Carbon Disulfide | 10 | 10 | |
| 75-35-4 | 1,1-Dichloroethene | 10 | 10 | |
| 75-34-3 | 1,1-Dichloroethane | 10 | 10 | |
| 540-59-0 | 1,2-Dichloroethene (total) | 10 | 10 | |
| 67-66-3 | Chloroform | 10 | 10 | |
| 107-06-2 | 1,2-Dichloroethane | 10 | 10 | |
| 78-93-3 | 2-Butanone | 10 | 10 | |
| 71-55-6 | 1,1,1-Trichloroethane | 10 | 10 | |
| 56-23-5 | Carbon Tetrachloride | 10 | 10 | |
| 108-05-4 | Vinyl Acetate | 10 | 10 | |
| 75-27-4 | Bromodichloromethane | 10 | 10 | |
| 78-87-5 | 1,2-Dichloropropane | 10 | 10 | |
| 10061-01-5 | cis-1,3-Dichloropropane | 10 | 10 | |
| 79-01-6 | Trichloroethene | 10 | 10 | |
| 124-48-1 | Dibromochloromethane | 10 | 10 | |
| 79-00-5 | 1,1,2-Trichloroethane | 10 | 10 | |
| 71-43-2 | Benzene | 10 | 10 | |
| 10061-02-6 | trans-1,3-Dichloropropane | 10 | 10 | |
| 75-25-2 | Bromoform | 10 | 10 | |
| 108-10-1 | 4-Methyl-2-Pentanone | 10 | 10 | |
| 591-78-6 | 2-Hexanone | 10 | 10 | |
| 127-18-4 | Tetrachloroethene | 10 | 10 | |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 10 | 10 | |
| 108-89-3 | Toluene | 10 | 10 | |
| 108-90-7 | Chlorobenzene | 10 | 10 | |
| 100-41-4 | Ethylbenzene | 10 | 10 | |
| 100-42-5 | Styrene | 10 | 10 | |
| 1330-20-7 | Xylene (total) | 10 | 10 | |

160

TOTAL ION CHROMATOGRAM



Data File: >C2188::U1
Name: A5599
Misc: CA5599V2,QU70443,L:M4,5,,

Quant Output File: ^C2188::AQ

Id File: IC1204::SS
Title: IFB, PP/VOA, XUQA13
Last Calibration: 910118 11:53

Operator ID: KB6656
Quant Time: 910118 15:11
Injected at: 910118 14:24

QUANT REPORT

Page 1

Operator ID: KB6656
 Output File: ^C2188::AQ
 Data File: >C2188::U1
 Name: A5599
 Misc: CA5599U2,QU70443,L:M4,5,,

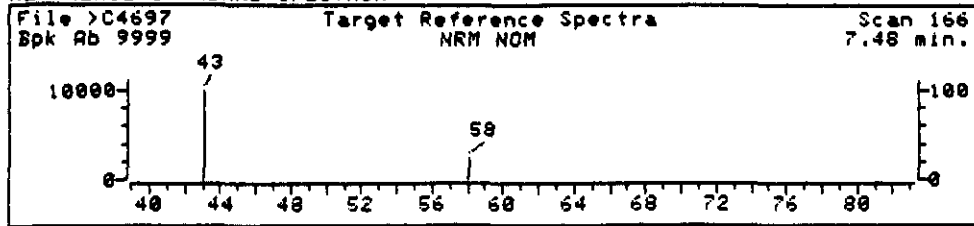
Quant Rev: 7 Quant Time: 910118 15:11
 Injected at: 910118 14:24
 Dilution Factor: 1.00000

ID File: IC1204::SS
 Title: IFB, PP/VOA, XUQA13
 Last Calibration: 910118 11:53

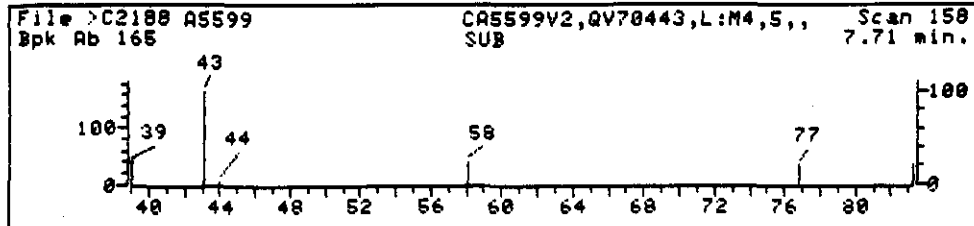
| Compound | R.T. | Scan# | Area | Conc | Units | q |
|----------------------------------|-------|-------|--------|--------|-------|----|
| 1) *Bromochloromethane | 10.39 | 227 | 57200 | 250.00 | NG | 99 |
| 9) Acetone | 7.71 | 158 | 2013 | 13.52 | NG | 94 |
| 16) 1,2-Trans-dichloroethylene | 12.05 | 270 | 4164 | 15.75 | NG | 76 |
| 18) 1,2-Dichloroethane-D4 (SURR) | 13.33 | 303 | 86331 | 233.05 | NG | 81 |
| 20) *1,4-Difluorobenzene | 21.12 | 504 | 247875 | 250.00 | NG | 91 |
| 28) Trichloroethylene | 18.02 | 424 | 177481 | 445.34 | NG | 83 |
| 36) *Chlorobenzene-d5 | 25.97 | 629 | 204889 | 250.00 | NG | 98 |
| 40) Tetrachloroethylene | 23.68 | 570 | 5265 | 9.75 | NG | 94 |
| 41) Toluene-D8 (SURR) | 24.77 | 598 | 248119 | 190.66 | NG | 91 |
| 45) p-Bromofluorobenzene (SURR) | 30.48 | 745 | 134040 | 189.59 | NG | 85 |

* Compound is ISTD

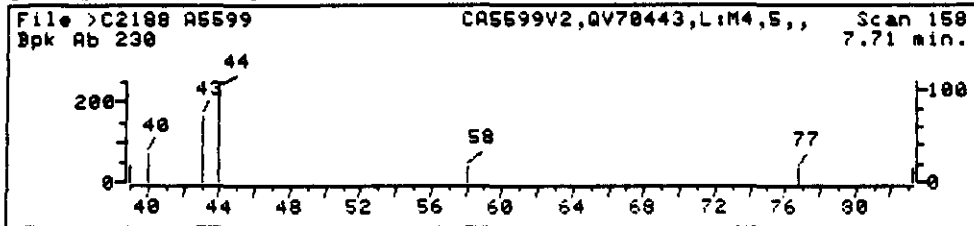
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



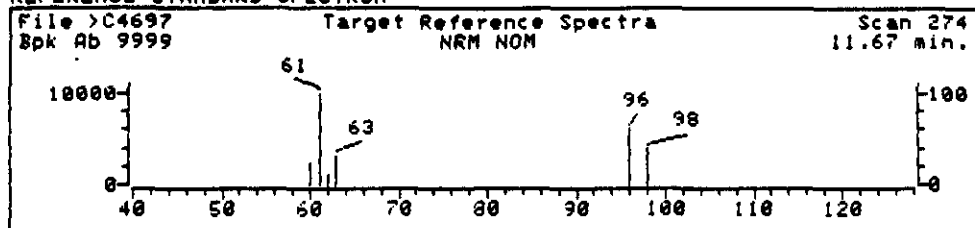
SAMPLE SPECTRUM (UNALTERED)



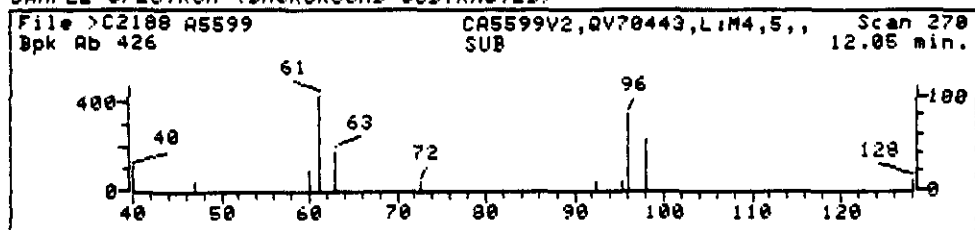
Data File: >C2188::U1 Quant Output File: ^C2188::AQ
 Name: A5599
 Misc: CA5599V2,QU70443,L:M4,S,,
 Quant Time: 910118 15:11 Quant ID File: IC1204::SS
 Injected at: 910118 14:24 Last Calibration: 910118 11:53

Compound No: 9
 Compound Name: Acetone
 Scan Number: 158
 Retention Time: 7.71 min.
 Quant Ion: 43.0
 Area: 2013
 Concentration: 13.52 NG
 q-value: 94

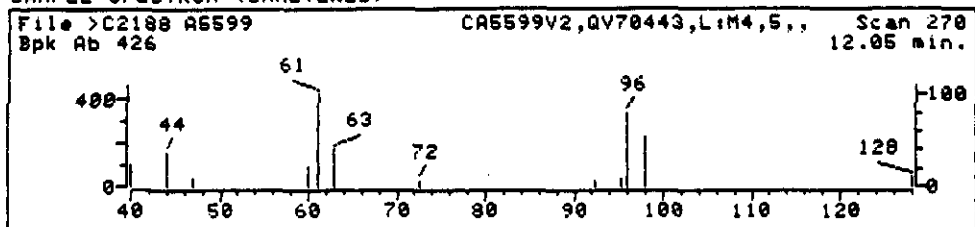
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



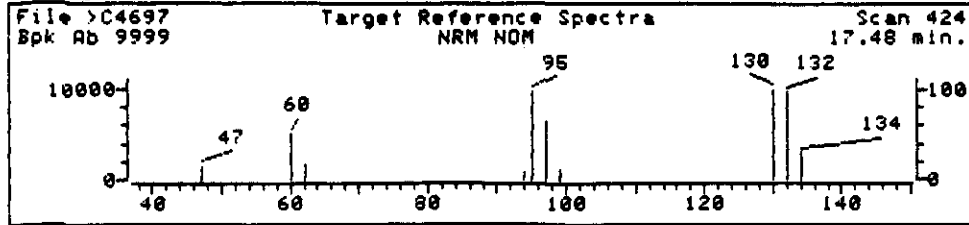
SAMPLE SPECTRUM (UNALTERED)



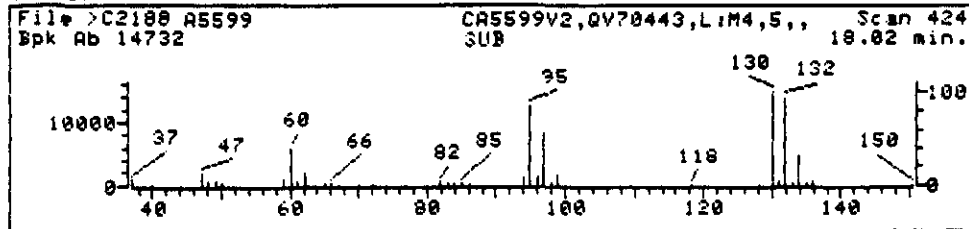
Data File: >C2188::U1 Quant Output File: ^C2188::AQ
 Name: A5599
 Misc: CA5599V2,QV70443,L:M4,5,,
 Quant Time: 910118 15:11 Quant ID File: IC1204::SS
 Injected at: 910118 14:24 Last Calibration: 910118 11:53

Compound No: 16
 Compound Name: 1,2-Trans-dichloroethylene
 Scan Number: 270
 Retention Time: 12.05 min.
 Quant Ion: 96.0
 Area: 4164
 Concentration: 15.75 NG
 q-value: 76

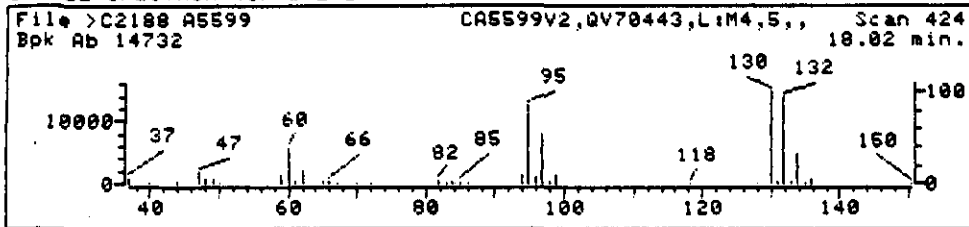
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)



Data File: >C2188::U1

Quant Output File: ^C2188::AQ

Name: A5599

Misc: CA5599U2,QU70443,L:M4,5,,

Quant Time: 910118 15:11

Quant ID File: IC1204::SS

Injected at: 910118 14:24

Last Calibration: 910118 11:53

Compound No: 28

Compound Name: Trichloroethylene

Scan Number: 424

Retention Time: 18.02 min.

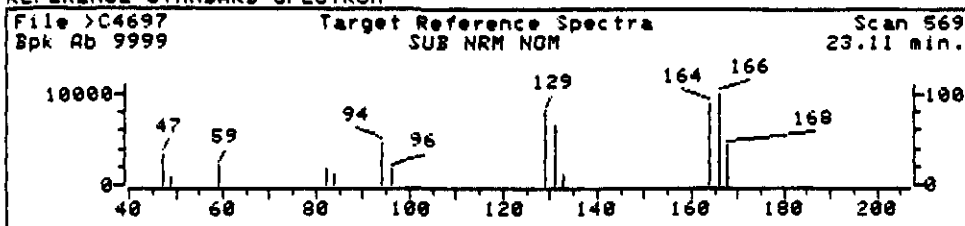
Quant Ion: 130.0

Area: 177481

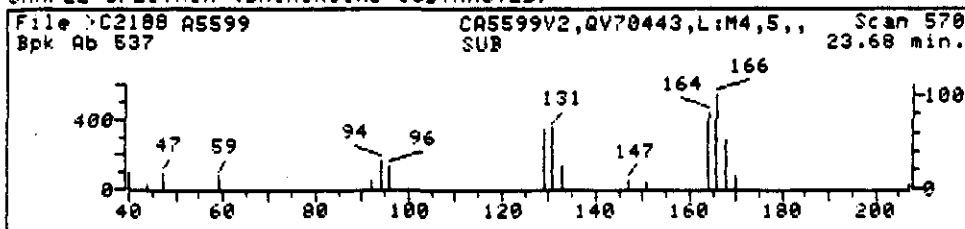
Concentration: 445.34 NG

q-value: 83

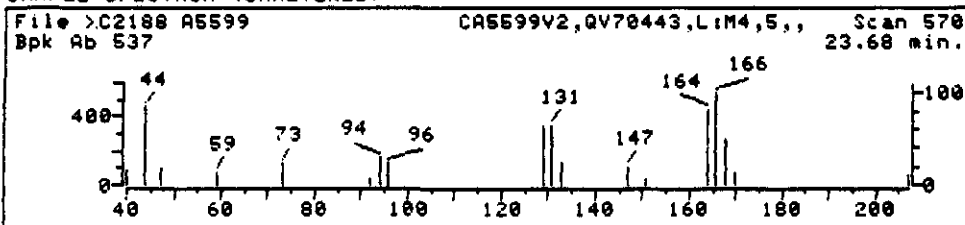
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)



Data File: >C2188::U1 Quant Output File: ^C2188::AQ
 Name: A5599
 Misc: CA5599U2,QU70443,L:M4,5,,
 Quant Time: 910118 15:11 Quant ID File: IC1204::SS
 Injected at: 910118 14:24 Last Calibration: 910118 11:53

Compound No: 40
 Compound Name: Tetrachloroethylene
 Scan Number: 570
 Retention Time: 23.68 min.
 Quant Ion: 164.0
 Area: 5265
 Concentration: 9.75 NG
 q-value: 94

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

1A5805

Lab Name: ETCNJ

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.:

Matrix: (soil/water) WATER

Lab Sample ID: CA580502

Sample wt/vol: 5.0 (g/mL) ML

Lab File ID: C2187

Level: (low/med) LOW

Date Received: 01/8/91

% Moisture: not dec.

Date Analyzed: 11/18/91

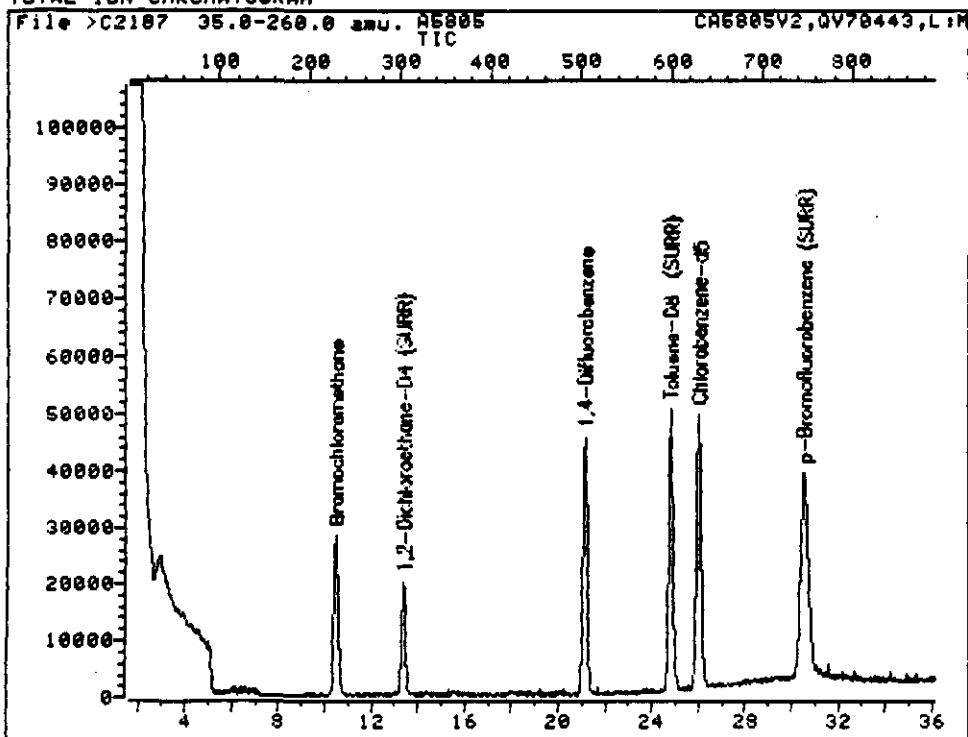
Column: (pack/cap) PACK

Dilution Factor: 1

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|------------|----------------------------|--|----|
| 74-87-3 | Chloromethane | 10 | 10 |
| 74-83-9 | Bromomethane | 10 | 10 |
| 75-01-4 | Vinyl Chloride | 10 | 10 |
| 75-00-3 | Chloroethane | 10 | 10 |
| 75-09-2 | Methylene Chloride | 5 | 10 |
| 67-64-1 | Acetone | 10 | 10 |
| 75-15-0 | Carbon Disulfide | 5 | 10 |
| 75-35-4 | 1,1-Dichloroethene | 5 | 10 |
| 75-34-3 | 1,1-Dichloroethane | 5 | 10 |
| 540-59-0 | 1,2-Dichloroethene (total) | 5 | 10 |
| 67-66-3 | Chloroform | 5 | 10 |
| 107-06-2 | 1,2-Dichloroethane | 5 | 10 |
| 78-93-3 | 2-Butanone | 10 | 10 |
| 71-55-6 | 1,1,1-Trichloroethane | 5 | 10 |
| 56-23-5 | Carbon Tetrachloride | 5 | 10 |
| 108-05-4 | Vinyl Acetate | 10 | 10 |
| 75-27-4 | Bromodichloromethane | 5 | 10 |
| 78-87-5 | 1,2-Dichloropropane | 5 | 10 |
| 10061-01-5 | cis-1,3-Dichloropropene | 5 | 10 |
| 79-01-6 | Trichloroethene | 5 | 10 |
| 124-48-1 | Dibromochloromethane | 5 | 10 |
| 79-00-5 | 1,1,2-Trichloroethane | 5 | 10 |
| 71-43-2 | Benzene | 5 | 10 |
| 10061-02-6 | trans-1,3-Dichloropropene | 5 | 10 |
| 75-25-2 | Bromoform | 5 | 10 |
| 108-10-1 | 4-Methyl-2-Pentanone | 10 | 10 |
| 591-78-6 | 2-Hexanone | 10 | 10 |
| 127-18-4 | Tetrachloroethene | 5 | 10 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 5 | 10 |
| 108-88-3 | Toluene | 5 | 10 |
| 108-90-7 | Chlorobenzene | 5 | 10 |
| 100-41-4 | Ethylbenzene | 5 | 10 |
| 100-42-5 | Styrene | 5 | 10 |
| 1330-20-7 | Xylene (total) | 5 | 10 |

TOTAL ION CHROMATOGRAM



Data File: >C2187::U1
Name: A5805
Misc: CA5805V2,QV70443,L:M4,5,,

Quant Output File: ^C2187::AQ

Id File: IC1204::SS
Title: IFB, PP/VOA, XVOA13
Last Calibration: 910118 11:53

Operator ID: KB6656
Quant Time: 910118 14:32
Injected at: 910118 13:36

QUANT REPORT

Page 1

Operator ID: KB6656
 Output File: ^C2187::AQ
 Data File: >C2187::U1
 Name: A5805
 Misc: CA5805U2,QU70443,L:M4,5,,

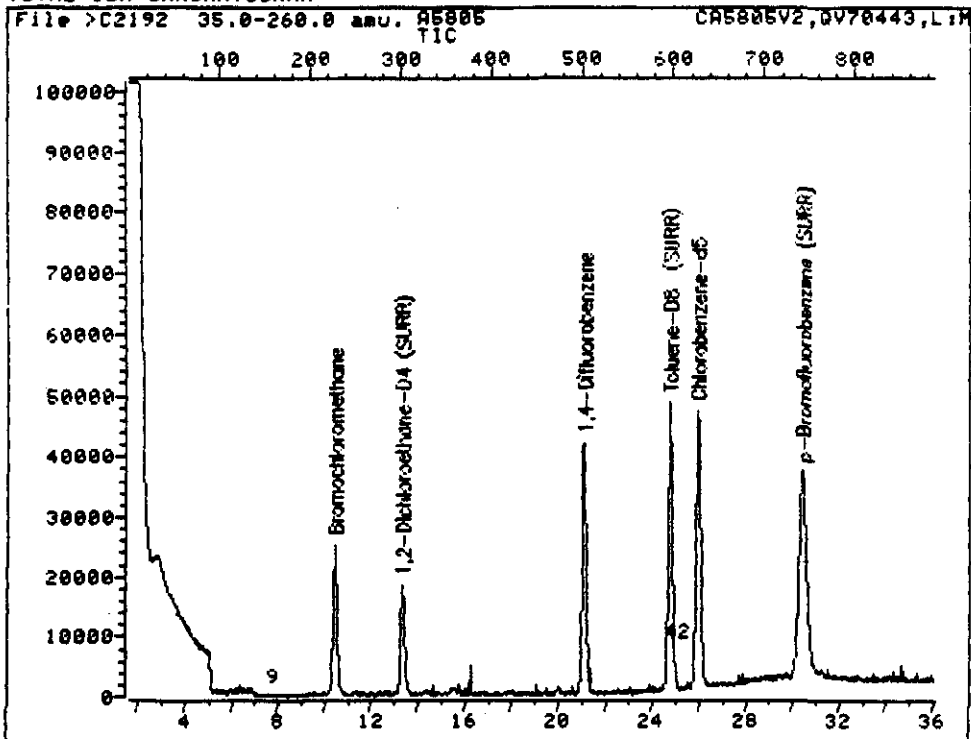
Quant Rev: 7 Quant Time: 910118 14:32
 Injected at: 910118 13:36
 Dilution Factor: 1.00000

ID File: IC1204::SS
 Title: IFB, PP/VOA, XVOA13
 Last Calibration: 910118 11:53

| | Compound | R.T. | Scan# | Area | Conc | Units | q |
|-----|------------------------------|-------|-------|--------|--------|-------|----|
| 1) | *Bromochloromethane | 10.49 | 230 | 56629 | 250.00 | NG | 97 |
| 18) | 1,2-Dichloroethane-D4 (SURR) | 13.39 | 305 | 84403 | 230.14 | NG | 80 |
| 20) | *1,4-Difluorobenzene | 21.15 | 505 | 246388 | 250.00 | NG | 91 |
| 36) | *Chlorobenzene-d5 | 26.01 | 630 | 198269 | 250.00 | NG | 95 |
| 41) | Toluene-D8 (SURR) | 24.79 | 599 | 244007 | 193.77 | NG | 92 |
| 45) | p-Bromofluorobenzene (SURR) | 30.54 | 747 | 132871 | 194.21 | NG | 86 |

* Compound is ISTD

TOTAL ION CHROMATOGRAM



Data File: >C2192::U1

Quant Output File: ^C2192::AQ

Name: A5805

Misc: CA5805V2,QV70443,L:M4,5,,

Id File: IC1204::SS

Title: IFB, PP/VOA, XVOA13

Last Calibration: 910118 11:53

Operator ID: KB6656

Quant Time: 910118 18:25

Injected at: 910118 17:47

QUANT REPORT

Page 1

Operator ID: KB6656
 Output File: ^C2192::AQ
 Data File: >C2192::U1
 Name: A5805
 Misc: CA5805U2,QU70443,L:M4,5,,

Quant Rev: 7 Quant Time: 910118 18:25
 Injected at: 910118 17:47
 Dilution Factor: 1.00000

ID File: IC1204::SS
 Title: IFB, PP/VDA, XVOA13
 Last Calibration: 910118 11:53

| | Compound | R.T. | Scan# | Area | Conc | Units | g |
|-----|------------------------------|-------|-------|--------|--------|-------|----|
| 1) | *Bromochloromethane | 10.43 | 228 | 51631 | 250.00 | NG | 98 |
| 9) | Acetone | 7.68 | 157 | 2387 | 17.76 | NG | 70 |
| 18) | 1,2-Dichloroethane-D4 (SURR) | 13.34 | 303 | 75449 | 225.64 | NG | 75 |
| 20) | *1,4-Difluorobenzene | 21.09 | 503 | 229838 | 250.00 | NG | 92 |
| 36) | *Chlorobenzene-d5 | 25.94 | 628 | 188846 | 250.00 | NG | 95 |
| 41) | Toluene-D8 (SURR) | 24.74 | 597 | 231781 | 193.24 | NG | 94 |
| 42) | Toluene | 24.93 | 602 | 5322 | 7.78 | NG | 97 |
| 45) | p-Bromofluorobenzene (SURR) | 30.45 | 744 | 124430 | 190.95 | NG | 84 |

* Compound is ISTD

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

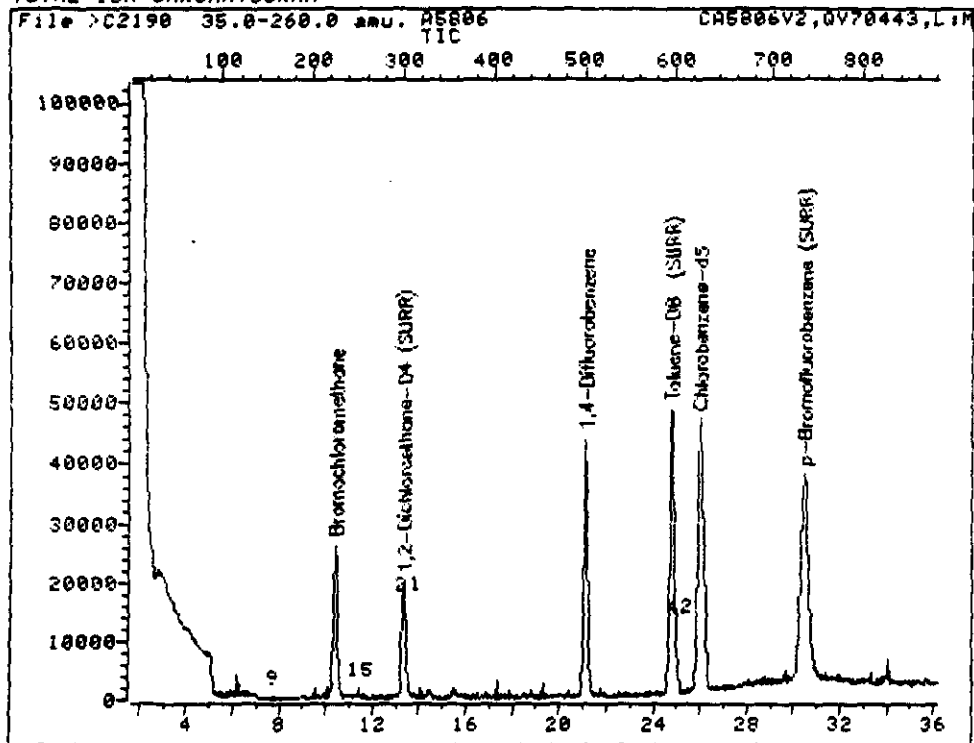
EPA FORM 161 6/74

Lab Name: ETONI Contract:
 Lab Code: Case No.: SAS No.: EIS No.:
 Matrix: Tap Water - WATER Lab Sample ID: DAF806 10
 Sample Volume: 5.0 ug/mL: ML Lab File ID: 00190
 Level: 100 mg/L LCP Date Received: 01 10 81
 % Moisture: not det. Date Analyzed: 01 13 81
 Column: Heckman PACH Dilution Factor: 1

| CAS NO. | COMPOUND | CONCENTRATION LIMITS | |
|------------|----------------------------|----------------------|--------|
| | | (ug/L or ug/Kg) | (UG/L) |
| 74-87-3 | Chloromethane | 10 | 0 |
| 74-83-6 | Bromomethane | 10 | 10 |
| 75-01-4 | Vinyl Chloride | 10 | 0 |
| 75-06-3 | Chloroethane | 10 | 10 |
| 75-09-2 | Methylene Chloride | 5 | 10 |
| 67-64-1 | Acetone | 5 | 10 |
| 75-15-0 | Carbon Disulfide | 5 | 10 |
| 75-35-9 | 1,1-Dichloroethane | 15 | 10 |
| 75-34-3 | 1,1-Dichloroethane | 15 | 10 |
| 540-59-9 | 1,2-Dichloroethane (total) | 15 | 10 |
| 67-66-3 | Chloroform | 15 | 10 |
| 107-06-2 | 1,2-Dichloroethane | 15 | 10 |
| 76-93-3 | 2-Butanone | 10 | 10 |
| 71-55-5 | 1,1,1-Trichloroethane | 15 | 10 |
| 56-23-5 | Carbon Tetrachloride | 15 | 10 |
| 108-05-4 | Vinyl Acetate | 10 | 10 |
| 75-27-4 | Bromodichloromethane | 15 | 10 |
| 78-87-5 | 1,2-Dichloropropane | 15 | 10 |
| 10061-01-5 | cis-1,3-Dichloropropene | 5 | 10 |
| 79-01-6 | Trichloroethene | 5 | 10 |
| 124-48-1 | Dibromochloromethane | 5 | 10 |
| 79-09-5 | 1,1,2-Trichloroethane | 15 | 10 |
| 71-43-2 | Benzene | 5 | 10 |
| 10061-02-6 | trans-1,3-Dichloropropene | 5 | 10 |
| 75-25-2 | Bromoform | 5 | 10 |
| 108-10-1 | 4-Methyl-2-Pentanone | 10 | 10 |
| 591-78-6 | 2-Hexanone | 10 | 10 |
| 127-18-4 | Tetrachloroethene | 15 | 10 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 5 | 10 |
| 108-88-3 | Toluene | 15 | 10 |
| 108-90-7 | Chlorobenzene | 5 | 10 |
| 100-41-4 | Ethylbenzene | 15 | 10 |
| 100-42-5 | Styrene | 5 | 10 |
| 1330-20-7 | Xylene (total) | 15 | 10 |

176

TOTAL ION CHROMATOGRAM



Data File: >C2190::U1
Name: A5806
Misc: CA5806V2,QU70443,L:M4,5,,

Quant Output File: ^C2190::AQ

Id File: IC1204::SS
Title: IFB, PP/UDA, XVOA13
Last Calibration: 910118 11:53

Operator ID: KB6656
Quant Time: 910118 16:35
Injected at: 910118 15:58

QUANT REPORT

Page 1

Operator ID: KB6656
 Output File: ^C2190::AQ
 Data File: >C2190::U1
 Name: A5806
 Misc: CA5806U2,QU70443,L:M4,5,,

Quant Rev: 7 Quant Time: 910118 16:35
 Injected at: 910118 15:58
 Dilution Factor: 1.00000

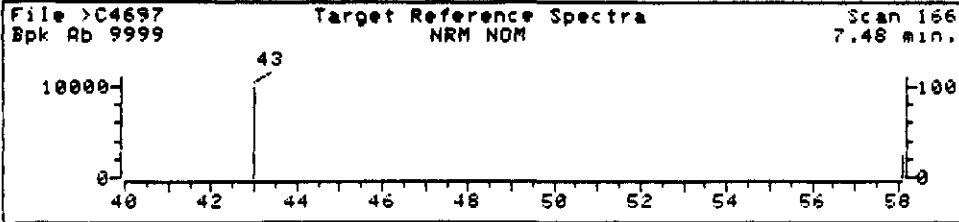
ID File: IC1204::SS
 Title: IFB, PP/VOA, XVOA13
 Last Calibration: 910118 11:53

| Compound | R.T. | Scan# | Area | Conc | Units | q |
|----------------------------------|-------|-------|--------|------------------|-------|-----|
| 1) *Bromochloromethane | 10.41 | 226 | 53497 | 250.00 | NG | 98 |
| 9) Acetone | 7.70 | 156 | 2382 | 17.10 | NG | 90 |
| 15) Tetrahydrofuran | 11.38 | 251 | 2497 | 36.28 | NG | 100 |
| 18) 1,2-Dichloroethane-D4 (SURR) | 13.36 | 302 | 81067 | 233.99 | NG | 81 |
| 20) *1,4-Difluorobenzene | 21.11 | 502 | 231118 | 250.00 | NG | 90 |
| 21) Methyl ethyl ketone | 13.40 | 303 | 2933 | 87.75 | NG | 82 |
| 36) *Chlorobenzene-d5 | 25.95 | 627 | 173798 | 250.00 | NG | 96 |
| 41) Toluene-D8 (SURR) | 24.75 | 596 | 232264 | 210.41 | NG | 92 |
| 42) Toluene | 24.95 | 601 | 17384 | 27.61 | NG | 95 |
| 45) p-Bromofluorobenzene (SURR) | 30.44 | 736 | 126407 | 210.78 | NG | 81 |

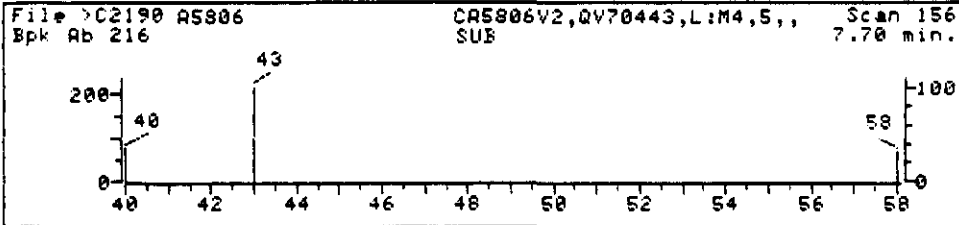
* Compound is ISTD

AP 1/25/91

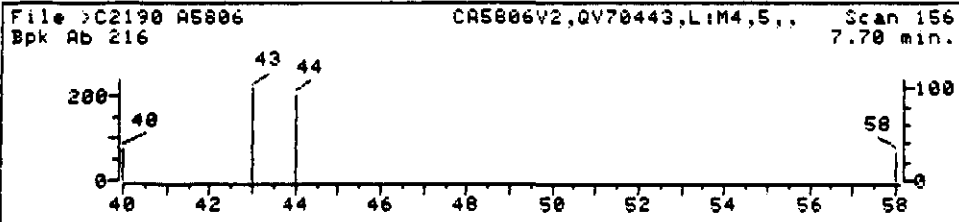
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



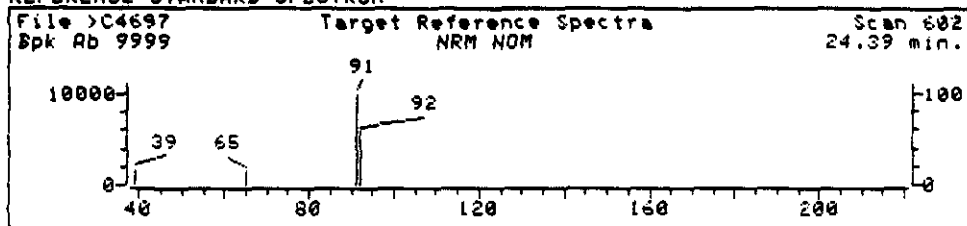
SAMPLE SPECTRUM (UNALTERED)



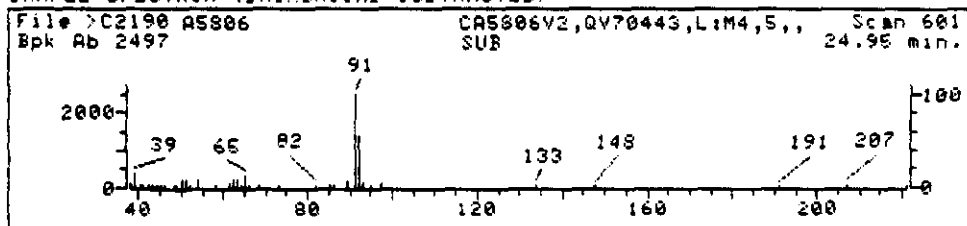
Data File: >C2190::U1 Quant Output File: ^C2190::AQ
 Name: A5806
 Misc: CA5806U2,QV70443,L:M4,5,,
 Quant Time: 910118 16:35 Quant ID File: IC1204::SS
 Injected at: 910118 15:58 Last Calibration: 910118 11:53

Compound No: 9
 Compound Name: Acetone
 Scan Number: 156
 Retention Time: 7.70 min.
 Quant Ion: 43.0
 Area: 2382
 Concentration: 17.10 NG
 q-value: 90

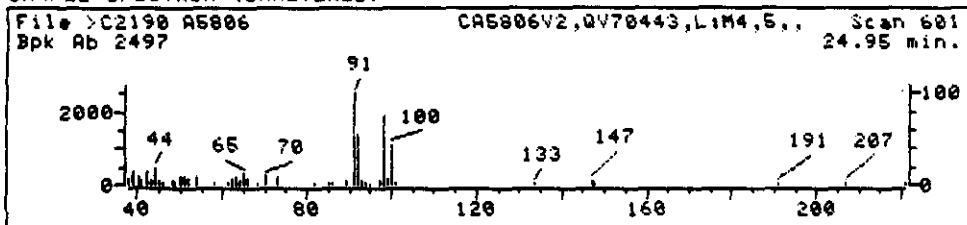
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)



Data File: >C2190::U1

Quant Output File: ^C2190::AQ

Name: A5806

Misc: CA5806V2,QV70443,L:M4,5,,

Quant Time: 910118 16:35

Quant ID File: IC1204::SS

Injected at: 910118 15:58

Last Calibration: 910118 11:53

Compound No: 42

Compound Name: Toluene

Scan Number: 601

Retention Time: 24.95 min.

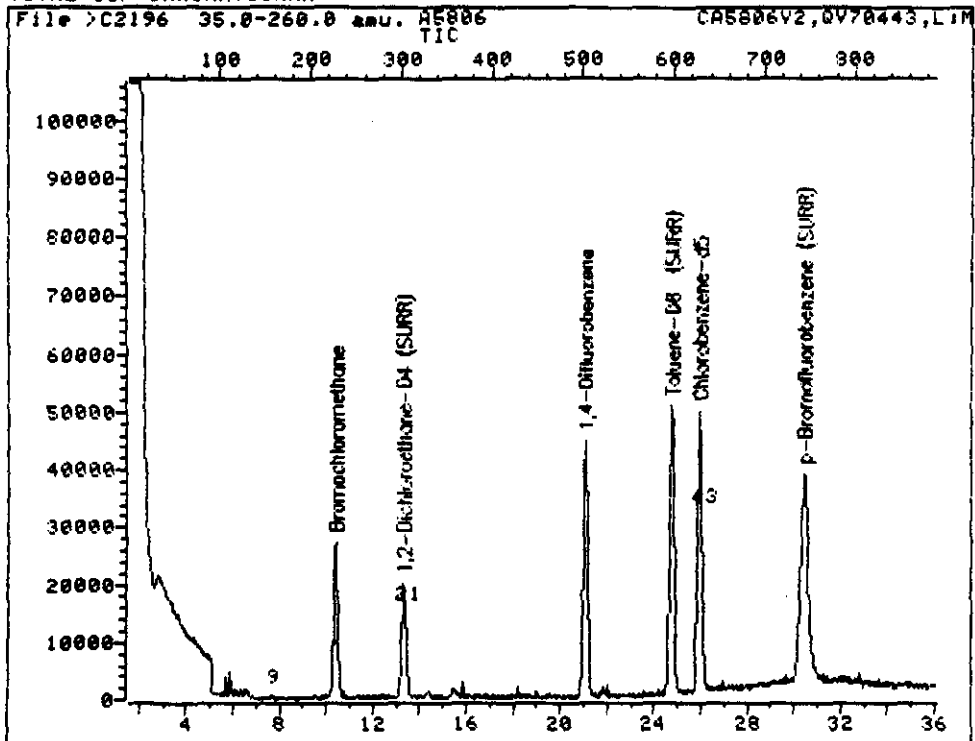
Quant Ion: 92.0

Area: 17384

Concentration: 27.61 NG

q-value: 95

TOTAL ION CHROMATOGRAM



Data File: >C2196::U1

Quant Output File: ^C2196::AQ

Name: A5806

Misc: CA5806V2,QU70443,L:M4,5,,

Id File: IC1204::SS

Title: IFB, PP/VOA, XVOA13

Last Calibration: 910118 11:53

Operator ID: KB6656

Quant Time: 910118 21:35

Injected at: 910118 20:58

QUANT REPORT

Page 1

Operator ID: KB6656 Quant Rev: 7 Quant Time: 910118 21:35
 Output File: ^C2196::AQ Injected at: 910118 20:58
 Data File: >C2196::U1 Dilution Factor: 1.00000
 Name: A5806
 Misc: CA5806U2,QU70443,L:M4,5,,

ID File: IC1204::SS
 Title: IFB, PP/VOA, XVOA13
 Last Calibration: 910118 11:53

| Compound | R.T. | Scan# | Area | Conc | Units | q |
|----------------------------------|-------|-------|--------|-----------------|-------|----|
| 1) *Bromochloromethane | 10.40 | 228 | 55651 | 250.00 | NG | 94 |
| 9) Acetone | 7.69 | 158 | 3275 | 22.60 | NG | 98 |
| 18) 1,2-Dichloroethane-D4 (SURR) | 13.31 | 303 | 82613 | 229.22 | NG | 79 |
| 20) *1,4-Difluorobenzene | 21.06 | 503 | 239082 | 250.00 | NG | 90 |
| 21) Methyl ethyl ketone | 13.39 | 305 | 2677 | 77.43 | NG | 94 |
| 36) *Chlorobenzene-d5 | 25.94 | 629 | 196316 | 250.00 | NG | 95 |
| 41) Toluene-DB (SURR) | 24.74 | 598 | 242926 | 194.83 | NG | 90 |
| 43) Chlorobenzene | 26.04 | 631 | 2106 | 2.59 | NG | 81 |
| 45) p-Bromofluorobenzene (SURR) | 30.42 | 744 | 128052 | 189.03 | NG | 75 |

* Compound is ISTD

MP 1/25/11

ETC

STANDARDS DATA

6A
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: ETCNJ

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.:

Instrument ID: GC/MS C

Calibration Date(s)

01/17/91

01/17/91

Matrix: (soil/water) WATER

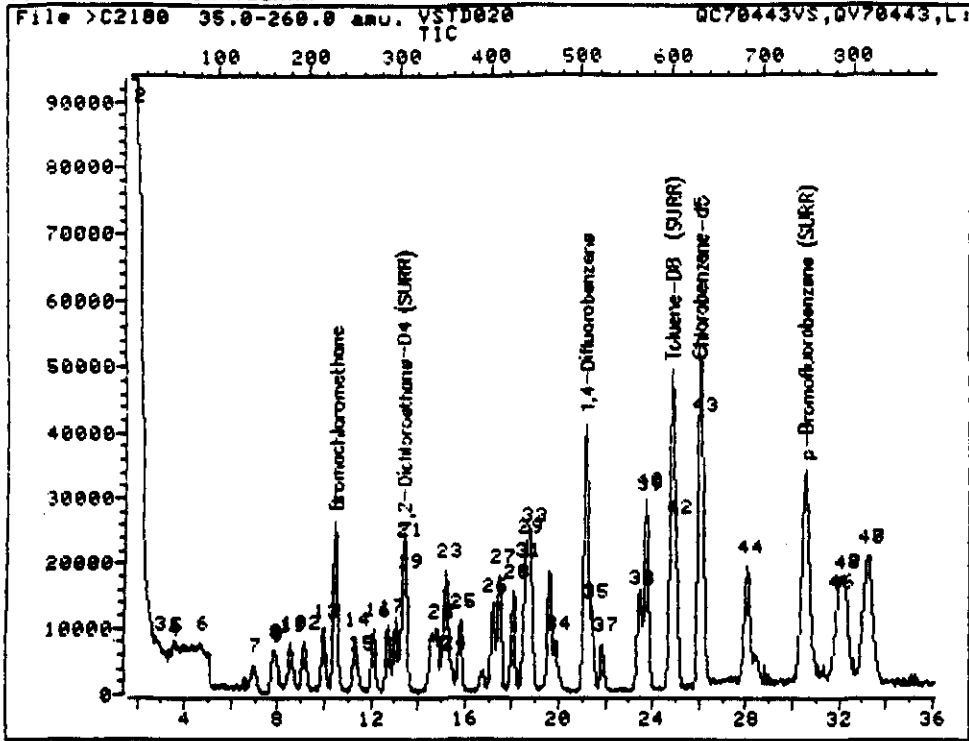
Level: (low/med) LOW

Column: (pack/cap) PACK

Min RRF for SPCC(%) = 0.300 (0.250 for Bromoform) Max %RSD for CCC(%) = 30.0%

| LAB FILE ID: | RRF20 =>C2180 | RRF50 =>C2179 | RRF100 =>C2178 | RRF150 =>C2177 | RRF200 =>C2181 | RRF | % RSD |
|-----------------------------|---------------|---------------|----------------|----------------|----------------|-------|-------|
| COMPOUND | RRF20 | RRF50 | RRF100 | RRF150 | RRF200 | RRF | % RSD |
| Chloromethane # | .887 | .879 | .863 | .994 | 1.019 | .928 | 7.8# |
| Bromomethane | .193 | .158 | .154 | .148 | .145 | .160 | 12.0 |
| Vinyl Chloride * | .254 | .260 | .245 | .297 | .265 | .264 | 7.5* |
| Chloroethane | .199 | .186 | .177 | .195 | .184 | .188 | 4.7 |
| Methylene Chloride | .630 | .841 | .821 | .879 | .395 | .713 | 28.4 |
| Acetone | .647 | .617 | .644 | .630 | .473 | .602 | 12.1 |
| Carbon Disulfide | 3.065 | 3.287 | 3.121 | 3.175 | 2.800 | 3.089 | 5.9 |
| 1,1-Dichloroethene * | 1.065 | 1.090 | 1.034 | 1.040 | .981 | 1.042 | 3.9* |
| 1,1-Dichloroethene # | 2.500 | 2.546 | 2.426 | 2.363 | 2.235 | 2.414 | 5.1# |
| 1,2-Dichloroethene (total) | 1.224 | 1.218 | 1.160 | 1.159 | 1.101 | 1.173 | 4.3 |
| Chloroform * | 2.617 | 2.623 | 2.529 | 2.455 | 2.320 | 2.509 | 5.0* |
| 1,2-Dichloroethane | 2.073 | 2.021 | 2.022 | 1.910 | 1.810 | 1.967 | 5.4 |
| 2-Butanone | .049 | .038 | .037 | .037 | .031 | .038 | 17.2 |
| 1,1,1-Trichloroethane | .435 | .444 | .427 | .419 | .398 | .425 | 4.1 |
| Carbon Tetrachloride | .412 | .428 | .412 | .405 | .376 | .407 | 4.6 |
| Vinyl Acetate | .477 | .704 | .902 | .797 | .748 | .725 | 21.7 |
| Bromodichloromethane | .497 | .497 | .503 | .474 | .450 | .484 | 4.6 |
| 1,2-Dichloropropane * | .426 | .417 | .414 | .391 | .364 | .402 | 6.2* |
| cis-1,3-Dichloropropene | .783 | .772 | .774 | .729 | .682 | .748 | 5.7 |
| Trichloroethene | .413 | .394 | .370 | .353 | .330 | .372 | 8.8 |
| Dibromochloromethane | .505 | .491 | .471 | .422 | .381 | .454 | 11.3 |
| 1,1,2-Trichloroethane | .321 | .296 | .280 | .248 | .221 | .273 | 14.4 |
| Benzene | .981 | .953 | .920 | .868 | .789 | .902 | 8.4 |
| trans-1,3-Dichloropropene | .252 | .250 | .243 | .223 | .200 | .234 | 9.3 |
| Bromoform # | .513 | .517 | .538 | .496 | .463 | .505 | 5.5# |
| 4-Methyl-2-Pentanone | .595 | .552 | .677 | .635 | .550 | .602 | 9.1 |
| 2-Hexanone | .498 | .479 | .592 | .597 | .554 | .544 | 9.9 |
| Tetrachloroethene | .537 | .488 | .503 | .470 | .387 | .477 | 11.8 |
| 1,1,2,2-Tetrachloroethane # | .648 | .585 | .676 | .599 | .466 | .595 | 13.6# |
| Toluene * | .789 | .774 | .880 | .827 | .691 | .792 | 8.8* |
| Chlorobenzene # | 1.043 | 1.006 | 1.155 | 1.057 | .907 | 1.034 | 8.7# |
| Ethylbenzene * | .514 | .492 | .549 | .523 | .458 | .507 | 6.8* |
| Styrene | 1.066 | 1.031 | 1.166 | 1.101 | .963 | 1.065 | 7.1 |
| Xylene (total) | .613 | .585 | .648 | .615 | .535 | .599 | 7.1 |
| Toluene-d8 | 1.309 | 1.310 | 1.522 | 1.522 | 1.361 | 1.405 | 7.8 |
| Bromofluorobenzene | .756 | .745 | .900 | .881 | .811 | .819 | 8.6 |
| 1,2-Dichloroethane-d4 | 1.897 | 1.951 | 2.045 | 2.027 | 2.006 | 1.985 | 3.1 |

TOTAL ION CHROMATOGRAM



Data File: >C2180::U1

Quant Output File: ^C2180::AQ

Name: VSTD020

Misc: QC70443VS,QU70443,L:M4,5,,

Id File: IC1204::SS

Title: IFB, PP/VOA, XVOA13

Last Calibration: 910114 18:05

Operator ID: KB6656

Quant Time: 910117 16:42

Injected at: 910117 15:50

QUANT REPORT

Operator ID: KB6656
 Output File: ^C2180::AQ
 Data File: >C2180::U1
 Name: USTD020
 Misc: QC70443US,QU70443,L:M4,5,,

Quant Rev: 7 Quant Time: 910117 16:42
 Injected at: 910117 15:50
 Dilution Factor: 1.00000

ID File: IC1204::SS
 Title: IFB, PP/VOA, XVOA13
 Last Calibration: 910114 18:05

| Compound | R.T. | Scan# | Area | Conc | Units | q |
|----------------------------------|-------|-------|--------|---------|-------|-----|
| 1) *Bromochloromethane | 10.46 | 229 | 45451 | 250.00 | NG | 96 |
| 2) Methyl chloride | 1.97 | 10 | 16117 | 180.58 | NG | 98 |
| 3) Methyl bromide | 2.90 | 34 | 3504 | 120.05 | NG | 96 |
| 4) Dichlorodifluoromethane | 3.52 | 50 | 5303 | 85.57 | NG | 87 |
| 5) Vinyl chloride | 3.64 | 53 | 4611 | 95.47 | NG | 89 |
| 6) Chloroethane | 4.68 | 80 | 3615 | 108.41 | NG | 87 |
| 7) Methylene chloride | 6.97 | 139 | 11452 | 252.88 | NG | 97 |
| 8) Acrolein | 7.82 | 161 | 42314 | 1570.38 | NG | 94 |
| 9) Acetone | 7.90 | 163 | 11769 | 91.26 | NG | 98 |
| 10) Acrylonitrile | 8.56 | 180 | 14934 | 217.80 | NG | 97 |
| 11) Carbon disulfide | 8.52 | 179 | 55714 | 85.92 | NG | 96 |
| 12) Trichlorofluoromethane | 9.14 | 195 | 41652 | 94.51 | NG | 94 |
| 13) 1,1-Dichloroethylene | 9.95 | 216 | 19371 | 93.42 | NG | 96 |
| 14) 1,1-Dichloroethane | 11.31 | 251 | 45444 | 120.57 | NG | 97 |
| 15) Tetrahydrofuran | 11.43 | 254 | 9787 | 157.13 | NG | 100 |
| 16) 1,2-Trans-dichloroethylene | 12.09 | 271 | 22249 | 107.56 | NG | 95 |
| 17) Chloroform | 12.71 | 287 | 47575 | 109.65 | NG | 99 |
| 18) 1,2-Dichloroethane-D4 (SURR) | 13.37 | 304 | 86217 | 248.01 | NG | 83 |
| 19) 1,2-Dichloroethane | 13.48 | 307 | 37683 | 120.69 | NG | 96 |
| 20) *1,4-Difluorobenzene | 21.16 | 505 | 203349 | 250.00 | NG | 96 |
| 21) Methyl ethyl ketone | 13.44 | 306 | 4008 | 146.20 | NG | 98 |
| 22) 1,1,1-Trichloroethane | 14.80 | 341 | 35385 | 104.98 | NG | 94 |
| 23) Carbon tetrachloride | 14.80 | 341 | 5715 | 16.78 | NG | 92 |
| 23) Carbon tetrachloride | 15.19 | 351 | 33549 | 98.52 | NG | 95 |
| 24) Vinyl acetate | 15.42 | 357 | 38787 | 79.54 | NG | 92 |
| 25) Dichlorobromomethane | 15.81 | 367 | 40432 | 111.89 | NG | 97 |
| 26) 1,2-Dichloropropane | 17.16 | 402 | 34618 | 125.11 | NG | 97 |
| 27) cis-1,3-Dichloropropylene | 17.47 | 410 | 63683 | 118.43 | NG | 95 |
| 28) Trichloroethylene | 18.06 | 425 | 33566 | 109.65 | NG | 91 |
| 29) Chlorodibromomethane | 18.68 | 441 | 41096 | 118.23 | NG | 95 |
| 30) bis(Chloromethyl)ether | 18.64 | 440 | 13010 | 96.07 | NG | 100 |
| 31) Benzene | 18.56 | 438 | 79772 | 117.05 | NG | 96 |
| 32) 1,1,2-Trichloroethane | 18.79 | 444 | 26101 | 129.43 | NG | 87 |
| 33) trans-1,3-Dichloropropylene | 18.79 | 444 | 20499 | 123.93 | NG | 98 |
| 34) 2-Chloroethylvinyl ether | 19.88 | 472 | 21066 | 128.10 | NG | 100 |
| 35) Bromoform | 21.43 | 512 | 41716 | 98.96 | NG | 96 |
| 36) *Chlorobenzene-d5 | 26.01 | 630 | 162084 | 250.00 | NG | 84 |
| 37) Methyl-iso-butyl ketone | 21.86 | 523 | 38601 | 105.89 | NG | 89 |
| 38) 2-Hexanone | 23.41 | 563 | 32316 | 92.59 | NG | 91 |
| 39) 1,1,2,2-Tetrachloroethane | 23.72 | 571 | 42030 | 101.85 | NG | 95 |
| 40) Tetrachloroethylene | 23.75 | 572 | 34804 | 94.72 | NG | 98 |
| 41) Toluene-D8 (SURR) | 24.84 | 600 | 212164 | 224.82 | NG | 90 |
| 42) Toluene | 25.00 | 604 | 51182 | 98.68 | NG | 98 |

QUANT REPORT

Page 2

Operator ID: KB6656
 Output File: ^C2180::AQ
 Data File: >C2180::U1
 Name: USTD020
 Misc: QC70443US,QU70443,L:M4,5,,

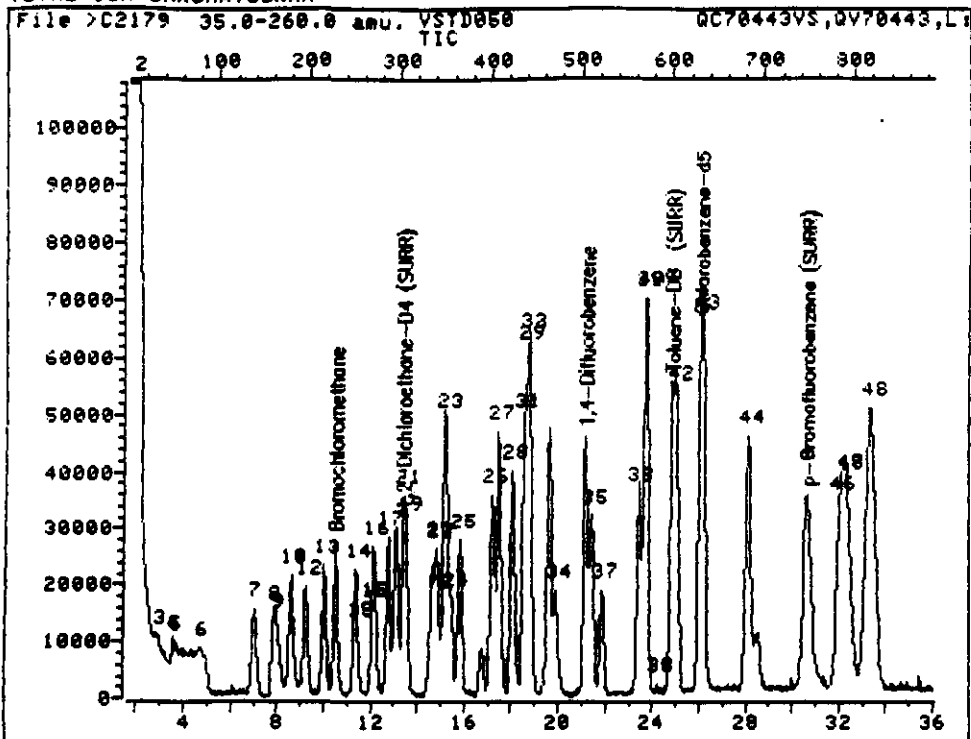
Quant Rev: 7 Quant Time: 910117 16:42
 Injected at: 910117 15:50
 Dilution Factor: 1.00000

ID File: IC1204::SS
 Title: IFB, PP/VOA, XUOA13
 Last Calibration: 910114 18:05

| | Compound | R.T. | Scan# | Area | Conc | Units | q |
|-----|-----------------------------|-------|-------|--------|--------|-------|----|
| 43) | Chlorobenzene | 26.13 | 633 | 67625 | 102.03 | NG | 93 |
| 44) | Ethylbenzene | 28.07 | 683 | 33311 | 103.32 | NG | 82 |
| 45) | p-Bromofluorobenzene (SURR) | 30.55 | 747 | 122556 | 225.26 | NG | 95 |
| 46) | Styrene | 31.95 | 783 | 69090 | 104.79 | NG | 98 |
| 47) | m-Xylene | 32.22 | 790 | 41656 | 104.10 | NG | 98 |
| 47) | m-Xylene | 33.19 | 815 | 71409 | 178.45 | NG | 99 |
| 48) | o+p-Xylenes | 32.22 | 790 | 41657 | 113.36 | NG | 88 |
| 48) | o+p-Xylenes | 33.19 | 815 | 79447 | 216.20 | NG | 88 |

* Compound is ISTD

TOTAL ION CHROMATOGRAM



Data File: >C2179::U1

Quant Output File: ^C2179::AQ

Name: USTD050

Misc: QC70443US, QV70443, L:M4, 5,,

Id File: IC1204::SS

Title: IFB, PP/VOA, XVOA13

Last Calibration: 910114 18:05

Operator ID: KB6656

Quant Time: 910117 15:39

Injected at: 910117 15:02

QUANT REPORT

Operator ID: KB6656 Quant Rev: 7 Quant Time: 910117 15:39
 Output File: ^C2179::AQ Injected at: 910117 15:02
 Data File: >C2179::U1 Dilution Factor: 1.00000
 Name: USTD050
 Misc: QC70443US,QU70443,L:M4,5,,

ID File: IC1204::SS
 Title: IFB, PP/VDA, XUDA13
 Last Calibration: 910114 18:05

| | Compound | R.T. | Scan# | Area | Conc | Units | g |
|-----|------------------------------|-------|-------|--------|---------|-------|-----|
| 1) | *Bromochloromethane | 10.51 | 230 | 48248 | 250.00 | NG | 98 |
| 2) | Methyl chloride | 1.98 | 10 | 42389 | 447.40 | NG | 99 |
| 3) | Methyl bromide | 2.91 | 34 | 7627 | 246.17 | NG | 98 |
| 4) | Dichlorodifluoromethane | 3.57 | 51 | 14318 | 217.65 | NG | 91 |
| 5) | Vinyl chloride | 3.65 | 53 | 12561 | 244.99 | NG | 97 |
| 6) | Chloroethane | 3.65 | 53 | 3941 | 111.34 | NG | 87 |
| 6) | Chloroethane | 4.74 | 81 | 8966 | 253.30 | NG | 94 |
| 7) | Methylene chloride | 7.02 | 140 | 40566 | 843.83 | NG | 97 |
| 8) | Acrolein | 7.88 | 162 | 108801 | 3803.79 | NG | 90 |
| 9) | Acetone | 7.99 | 165 | 29745 | 217.29 | NG | 99 |
| 10) | Acrylonitrile | 8.61 | 181 | 35263 | 484.47 | NG | 94 |
| 11) | Carbon disulfide | 8.61 | 181 | 158595 | 230.41 | NG | 99 |
| 12) | Trichlorofluoromethane | 9.23 | 197 | 108192 | 231.26 | NG | 97 |
| 13) | 1,1-Dichloroethylene | 10.01 | 217 | 52582 | 238.89 | NG | 95 |
| 14) | 1,1-Dichloroethane | 11.36 | 252 | 122837 | 307.02 | NG | 99 |
| 15) | Tetrahydrofuran | 11.48 | 255 | 21760 | 329.10 | NG | 100 |
| 15) | Tetrahydrofuran | 12.06 | 270 | 5056 | 76.47 | NG | 100 |
| 16) | 1,2-Trans-dichloroethylene | 12.14 | 272 | 58771 | 267.65 | NG | 94 |
| 17) | Chloroform | 12.76 | 288 | 126542 | 274.75 | NG | 99 |
| 18) | 1,2-Dichloroethane-D4 (SURR) | 13.42 | 305 | 94143 | 255.11 | NG | 85 |
| 19) | 1,2-Dichloroethane | 13.54 | 308 | 97509 | 294.18 | NG | 98 |
| 20) | *1,4-Difluorobenzene | 21.17 | 505 | 218189 | 250.00 | NG | 97 |
| 21) | Methyl ethyl ketone | 13.50 | 307 | 8243 | 280.23 | NG | 93 |
| 22) | 1,1,1-Trichloroethane | 14.85 | 342 | 96863 | 267.82 | NG | 95 |
| 23) | Carbon tetrachloride | 14.81 | 341 | 15382 | 42.10 | NG | 99 |
| 23) | Carbon tetrachloride | 15.24 | 352 | 93307 | 255.37 | NG | 95 |
| 24) | Vinyl acetate | 15.47 | 358 | 153546 | 293.46 | NG | 91 |
| 25) | Dichlorobromomethane | 15.86 | 368 | 108392 | 279.56 | NG | 95 |
| 26) | 1,2-Dichloropropane | 17.22 | 403 | 90885 | 306.11 | NG | 97 |
| 27) | cis-1,3-Dichloropropylene | 17.49 | 410 | 168443 | 291.94 | NG | 96 |
| 28) | Trichloroethylene | 18.07 | 425 | 85890 | 261.50 | NG | 92 |
| 29) | Chlorodibromomethane | 18.73 | 442 | 107113 | 287.20 | NG | 98 |
| 30) | bis(Chloromethyl)ether | 18.73 | 442 | 34134 | 234.92 | NG | 100 |
| 31) | Benzene | 18.58 | 438 | 208009 | 284.45 | NG | 95 |
| 32) | 1,1,2-Trichloroethane | 18.81 | 444 | 64553 | 298.33 | NG | 85 |
| 33) | trans-1,3-Dichloropropylene | 18.81 | 444 | 54456 | 306.83 | NG | 97 |
| 34) | 2-Chloroethylvinyl ether | 19.89 | 472 | 50678 | 287.21 | NG | 100 |
| 35) | Bromoform | 21.44 | 512 | 112740 | 249.27 | NG | 97 |
| 36) | *Chlorobenzene-d5 | 26.07 | 631 | 174939 | 250.00 | NG | 82 |
| 37) | Methyl-iso-butyl ketone | 21.87 | 523 | 96622 | 245.57 | NG | 91 |
| 38) | 2-Hexanone | 23.42 | 563 | 83766 | 222.36 | NG | 88 |
| 38) | 2-Hexanone | 24.20 | 583 | 2377 | 6.31 | NG | 80 |
| 39) | 1,1,2,2-Tetrachloroethane | 23.73 | 571 | 102422 | 229.96 | NG | 86 |

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QUANT REPORT

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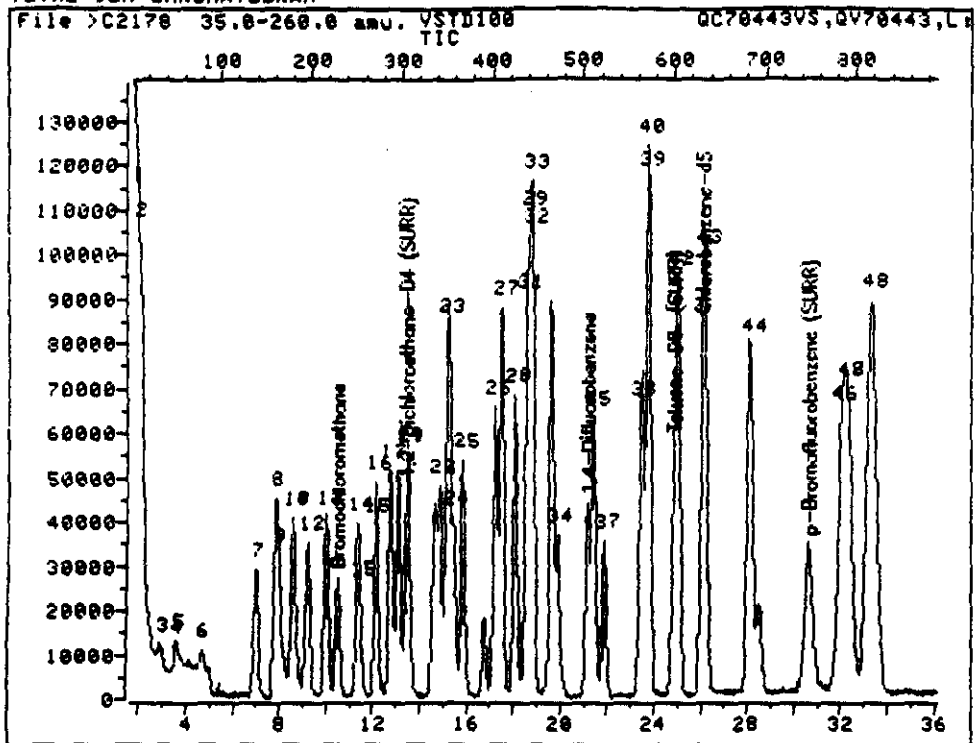
Operator ID: KB6656 Quant Rev: 7 Quant Time: 910117 15:39
 Output File: ^C2179::AQ Injected at: 910117 15:02
 Data File: >C2179::U1 Dilution Factor: 1.00000
 Name: USTD050
 Misc: QC70443US,QU70443,L:M4,5,,

ID File: IC1204::SS
 Title: IFB, PP/VOA, XVOA13
 Last Calibration: 910114 18:05

| | Compound | R.T. | Scan# | Area | Conc | Units | q |
|-----|-----------------------------|-------|-------|--------|--------|-------|----|
| 40) | Tetrachloroethylene | 23.77 | 572 | 85340 | 215.18 | NG | 95 |
| 41) | Toluene-D8 (SURR) | 24.86 | 600 | 229172 | 224.99 | NG | 89 |
| 42) | Toluene | 25.05 | 605 | 135318 | 241.72 | NG | 95 |
| 43) | Chlorobenzene | 26.18 | 634 | 175970 | 245.99 | NG | 95 |
| 44) | Ethylbenzene | 28.12 | 684 | 86035 | 247.25 | NG | 81 |
| 45) | p-Bromofluorobenzene (SURR) | 30.64 | 749 | 130358 | 222.00 | NG | 93 |
| 46) | Styrene | 32.04 | 785 | 180355 | 253.45 | NG | 97 |
| 47) | m-Xylene | 32.35 | 793 | 109405 | 253.31 | NG | 99 |
| 48) | o+p-Xylenes | 32.35 | 793 | 109406 | 275.85 | NG | 90 |
| 48) | o+p-Xylenes | 33.36 | 819 | 204796 | 516.35 | NG | 89 |

* Compound is ISTD

TOTAL ION CHROMATOGRAM



Data File: >C2178::U1
 Name: USTD100
 Misc: QC70443US,QU70443,L:M4,5,,

Quant Output File: ^C2178::AQ

Id File: IC1204::SS
 Title: IFB, PP/UOA, XVOA13
 Last Calibration: 910114 18:05

Operator ID: KB6656
 Quant Time: 910117 14:55
 Injected at: 910117 14:14

QUANT REPORT

Page 1

Operator ID: KB6656
 Output File: ^C2178::AQ
 Data File: >C2178::U1
 Name: USTD100
 Misc: QC70443US,QU70443,L:M4,5,,

Quant Rev: 7 Quant Time: 910117 14:55
 Injected at: 910117 14:14
 Dilution Factor: 1.00000

ID File: IC1204::SS
 Title: IFB, PP/UDA, XUDA13
 Last Calibration: 910114 18:05

| | Compound | R.T. | Scan# | Area | Conc | Units | g |
|-----|------------------------------|-------|-------|--------|----------|-------|-----|
| 1) | *Bromochloromethane | 10.51 | 230 | 46815 | 250.00 | NG | 94 |
| 2) | Methyl chloride | 1.98 | 10 | 80837 | 879.32 | NG | 99 |
| 3) | Methyl bromide | 2.91 | 34 | 14378 | 478.27 | NG | 98 |
| 4) | Dichlorodifluoromethane | 3.53 | 50 | 26276 | 411.65 | NG | 95 |
| 5) | Vinyl chloride | 3.61 | 52 | 22929 | 460.90 | NG | 94 |
| 6) | Chloroethane | 4.65 | 79 | 16532 | 481.35 | NG | 94 |
| 7) | Methylene chloride | 6.98 | 139 | 76912 | 1648.84 | NG | 97 |
| 8) | Acrolein | 7.83 | 161 | 333171 | 12004.53 | NG | 91 |
| 9) | Acetone | 7.95 | 164 | 60284 | 453.85 | NG | 98 |
| 10) | Acrylonitrile | 8.61 | 181 | 70327 | 995.78 | NG | 93 |
| 11) | Carbon disulfide | 8.57 | 180 | 292189 | 437.49 | NG | 98 |
| 12) | Trichlorofluoromethane | 9.23 | 197 | 194159 | 427.71 | NG | 93 |
| 13) | 1,1-Dichloroethylene | 10.00 | 217 | 96819 | 453.34 | NG | 93 |
| 14) | 1,1-Dichloroethane | 11.36 | 252 | 227137 | 585.08 | NG | 97 |
| 15) | Tetrahydrofuran | 11.48 | 255 | 41571 | 647.97 | NG | 100 |
| 15) | Tetrahydrofuran | 12.10 | 271 | 11551 | 180.05 | NG | 100 |
| 16) | 1,2-Trans-dichloroethylene | 12.14 | 272 | 108632 | 509.86 | NG | 93 |
| 17) | Chloroform | 12.76 | 288 | 236767 | 529.81 | NG | 97 |
| 18) | 1,2-Dichloroethane-D4 (SURR) | 13.45 | 306 | 95718 | 267.32 | NG | 87 |
| 19) | 1,2-Dichloroethane | 13.53 | 308 | 189313 | 588.64 | NG | 98 |
| 20) | *1,4-Difluorobenzene | 21.17 | 505 | 206878 | 250.00 | NG | 96 |
| 21) | Methyl ethyl ketone | 13.49 | 307 | 15255 | 546.96 | NG | 95 |
| 22) | 1,1,1-Trichloroethane | 14.85 | 342 | 176737 | 515.38 | NG | 93 |
| 23) | Carbon tetrachloride | 14.85 | 342 | 26033 | 75.15 | NG | 95 |
| 23) | Carbon tetrachloride | 15.28 | 353 | 170641 | 492.56 | NG | 94 |
| 24) | Vinyl acetate | 15.47 | 358 | 373051 | 751.96 | NG | 91 |
| 25) | Dichlorobromomethane | 15.86 | 368 | 208258 | 566.49 | NG | 98 |
| 26) | 1,2-Dichloropropane | 17.21 | 403 | 171383 | 608.81 | NG | 99 |
| 27) | cis-1,3-Dichloropropylene | 17.52 | 411 | 320373 | 585.62 | NG | 94 |
| 28) | Trichloroethylene | 18.07 | 425 | 152916 | 491.03 | NG | 93 |
| 29) | Chlorodibromomethane | 18.73 | 442 | 194785 | 550.83 | NG | 99 |
| 30) | bis(Chloromethyl) ether | 18.73 | 442 | 64133 | 465.52 | NG | 100 |
| 31) | Benzene | 18.57 | 438 | 380453 | 548.70 | NG | 94 |
| 32) | 1,1,2-Trichloroethane | 18.84 | 445 | 116034 | 565.57 | NG | 85 |
| 33) | trans-1,3-Dichloropropylene | 18.80 | 444 | 100442 | 596.87 | NG | 96 |
| 34) | 2-Chloroethylvinyl ether | 19.89 | 472 | 102648 | 613.54 | NG | 100 |
| 35) | Bromoform | 21.44 | 512 | 222493 | 518.83 | NG | 99 |
| 36) | *Chlorobenzene-d5 | 26.07 | 630 | 141597 | 250.00 | NG | 78 |
| 37) | Methyl-iso-butyl ketone | 21.87 | 523 | 191694 | 601.92 | NG | 89 |
| 38) | 2-Hexanone | 23.42 | 563 | 167544 | 549.48 | NG | 88 |
| 39) | 1,1,2,2-Tetrachloroethane | 23.73 | 571 | 191338 | 530.76 | NG | 94 |
| 40) | Tetrachloroethylene | 23.77 | 572 | 142334 | 443.40 | NG | 96 |
| 41) | Toluene-DB (SURR) | 24.85 | 600 | 215498 | 261.39 | NG | 91 |

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QUANT REPORT

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Operator ID: KB6656
 Output File: ^C2178::AQ
 Data File: >C2178::U1
 Name: USTD100
 Misc: QC70443US,QU70443,L:M4,5,,

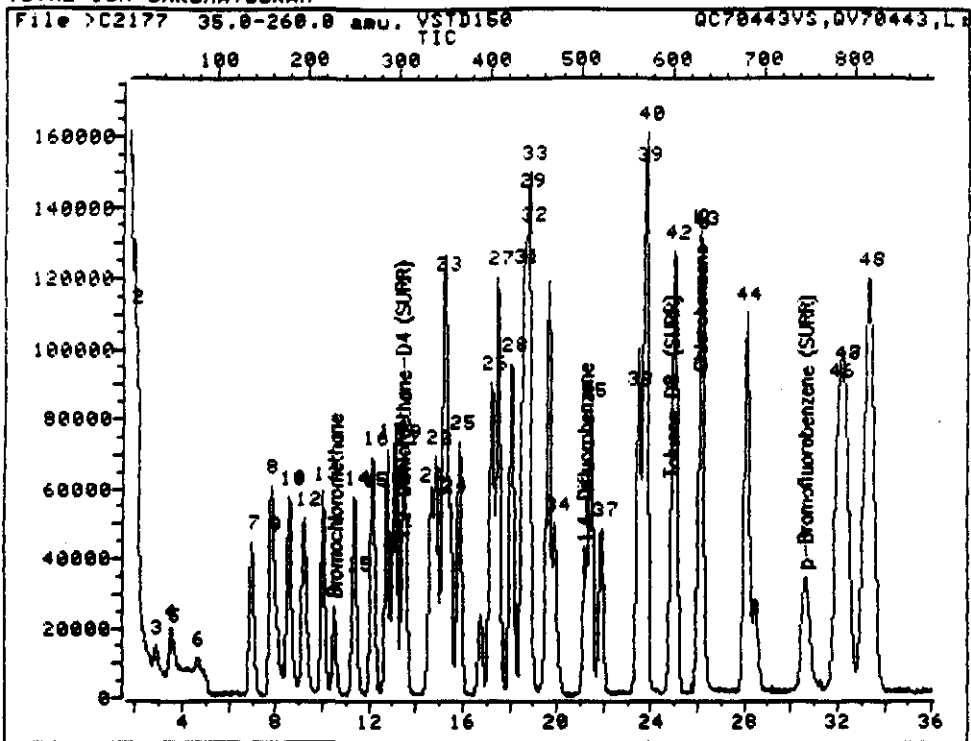
Quant Rev: 7 Quant Time: 910117 14:55
 Injected at: 910117 14:14
 Dilution Factor: 1.00000

ID File: IC1204::SS
 Title: IFB, PP/VOA, XVOA13
 Last Calibration: 910114 18:05

| | Compound | R.T. | Scan# | Area | Conc | Units | q |
|-----|-----------------------------|-------|-------|--------|---------|-------|----|
| 42) | Toluene | 25.05 | 605 | 249345 | 550.29 | NG | 96 |
| 43) | Chlorobenzene | 26.19 | 633 | 327228 | 565.14 | NG | 98 |
| 44) | Ethylbenzene | 28.13 | 683 | 155350 | 551.58 | NG | 81 |
| 45) | p-Bromofluorobenzene (SURR) | 30.65 | 748 | 127373 | 267.99 | NG | 90 |
| 46) | Styrene | 32.04 | 784 | 330216 | 573.32 | NG | 95 |
| 47) | m-Xylene | 32.31 | 791 | 196125 | 561.01 | NG | 97 |
| 48) | o+p-Xylenes | 32.31 | 791 | 193566 | 602.96 | NG | 91 |
| 48) | o+p-Xylenes | 33.32 | 817 | 367252 | 1143.99 | NG | 90 |

* Compound is ISTD

TOTAL ION CHROMATOGRAM



Data File: >C2177::U1

Quant Output File: ^C2177::AQ

Name: USTD150

Misc: QC70443US,QU70443,L:M4,5,,

Id File: IC1204::SS

Title: IFB, PP/VOA, XVOA13

Last Calibration: 910114 18:05

Operator ID: KB6656

Quant Time: 910117 14:04

Injected at: 910117 13:27

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QUANT REPORT

Operator ID: KB6656
Output File: ^C2177::AQ
Data File: >C2177::U1
Name: USTD150
Misc: QC70443US,QU70443,L:M4,5,,

Quant Rev: 7 Quant Time: 910117 14:04
 Injected at: 910117 13:27
 Dilution Factor: 1.00000

ID File: IC1204::SS
Title: IFB, PP/VOA, XVOA13
Last Calibration: 910114 18:05

| | Compound | R.T. | Scan# | Area | Conc | Units | q |
|-----|------------------------------|-------|-------|--------|----------|-------|-----|
| 1) | *Bromochloromethane | 10.51 | 230 | 44714 | 250.00 | NG | 98 |
| 2) | Methyl chloride | 1.98 | 10 | 133396 | 1519.23 | NG | 99 |
| 3) | Methyl bromide | 2.87 | 33 | 19872 | 692.08 | NG | 95 |
| 4) | Dichlorodifluoromethane | 3.49 | 49 | 52341 | 858.53 | NG | 98 |
| 5) | Vinyl chloride | 3.61 | 52 | 39865 | 838.99 | NG | 96 |
| 6) | Chloroethane | 4.65 | 79 | 26154 | 797.29 | NG | 93 |
| 7) | Methylene chloride | 6.98 | 139 | 117907 | 2646.47 | NG | 99 |
| 8) | Acrolein | 7.79 | 160 | 432334 | 16309.43 | NG | 93 |
| 9) | Acetone | 7.91 | 163 | 84538 | 666.36 | NG | 93 |
| 10) | Acrylonitrile | 8.57 | 180 | 89780 | 1330.96 | NG | 92 |
| 11) | Carbon disulfide | 8.57 | 180 | 425852 | 667.58 | NG | 99 |
| 12) | Trichlorofluoromethane | 9.23 | 197 | 295392 | 681.29 | NG | 93 |
| 13) | 1,1-Dichloroethylene | 10.00 | 217 | 139519 | 683.97 | NG | 96 |
| 14) | 1,1-Dichloroethane | 11.36 | 252 | 316922 | 854.72 | NG | 99 |
| 15) | Tetrahydrofuran | 11.48 | 255 | 53952 | 880.47 | NG | 100 |
| 15) | Tetrahydrofuran | 12.10 | 271 | 18309 | 298.80 | NG | 100 |
| 16) | 1,2-Trans-dichloroethylene | 12.14 | 272 | 155511 | 764.18 | NG | 93 |
| 17) | Chloroform | 12.79 | 289 | 329317 | 771.53 | NG | 98 |
| 18) | 1,2-Dichloroethane-D4 (SURR) | 13.42 | 305 | 90641 | 265.03 | NG | 84 |
| 19) | 1,2-Dichloroethane | 13.53 | 308 | 256245 | 834.19 | NG | 98 |
| 20) | *1,4-Difluorobenzene | 21.17 | 505 | 199762 | 250.00 | NG | 96 |
| 21) | Methyl ethyl ketone | 13.49 | 307 | 22409 | 832.08 | NG | 95 |
| 22) | 1,1,1-Trichloroethane | 14.85 | 342 | 251319 | 758.97 | NG | 95 |
| 23) | Carbon tetrachloride | 14.85 | 342 | 37627 | 112.48 | NG | 91 |
| 23) | Carbon tetrachloride | 15.28 | 353 | 242842 | 725.95 | NG | 96 |
| 24) | Vinyl acetate | 14.62 | 336 | 98178 | 204.95 | NG | 75 |
| 24) | Vinyl acetate | 15.47 | 358 | 477426 | 996.63 | NG | 91 |
| 25) | Dichlorobromomethane | 15.86 | 368 | 283836 | 799.58 | NG | 97 |
| 26) | 1,2-Dichloropropene | 17.22 | 403 | 234207 | 861.61 | NG | 98 |
| 27) | cis-1,3-Dichloropropylene | 17.49 | 410 | 436670 | 826.64 | NG | 92 |
| 28) | Trichloroethylene | 18.07 | 425 | 211431 | 703.11 | NG | 94 |
| 29) | Chlorodibromomethane | 18.73 | 442 | 252988 | 740.90 | NG | 99 |
| 30) | bis(Chloromethyl)ether | 18.73 | 442 | 86249 | 648.35 | NG | 100 |
| 31) | Benzene | 18.57 | 438 | 519963 | 776.62 | NG | 95 |
| 32) | 1,1,2-Trichloroethane | 18.84 | 445 | 148575 | 749.97 | NG | 83 |
| 33) | trans-1,3-Dichloropropylene | 18.81 | 444 | 133892 | 823.99 | NG | 95 |
| 34) | 2-Chloroethylvinyl ether | 19.89 | 472 | 137380 | 850.39 | NG | 100 |
| 35) | Bromoform | 21.44 | 512 | 297051 | 717.36 | NG | 96 |
| 36) | *Chlorobenzene-d5 | 26.06 | 630 | 134519 | 250.00 | NG | 81 |
| 37) | Methyl-iso-butyl ketone | 21.91 | 524 | 256444 | 847.61 | NG | 87 |
| 38) | 2-Hexanone | 23.42 | 563 | 241091 | 832.28 | NG | 84 |
| 39) | 1,1,2,2-Tetrachloroethane | 23.73 | 571 | 241848 | 706.17 | NG | 94 |
| 40) | Tetrachloroethylene | 23.77 | 572 | 189494 | 621.37 | NG | 97 |

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QUANT REPORT

Page 2

Operator ID: KB6656
 Output File: ^C2177::AQ
 Data File: ^C2177::U1
 Name: USTD150
 Misc: QC70443US,QU70443,L:M4,5,,

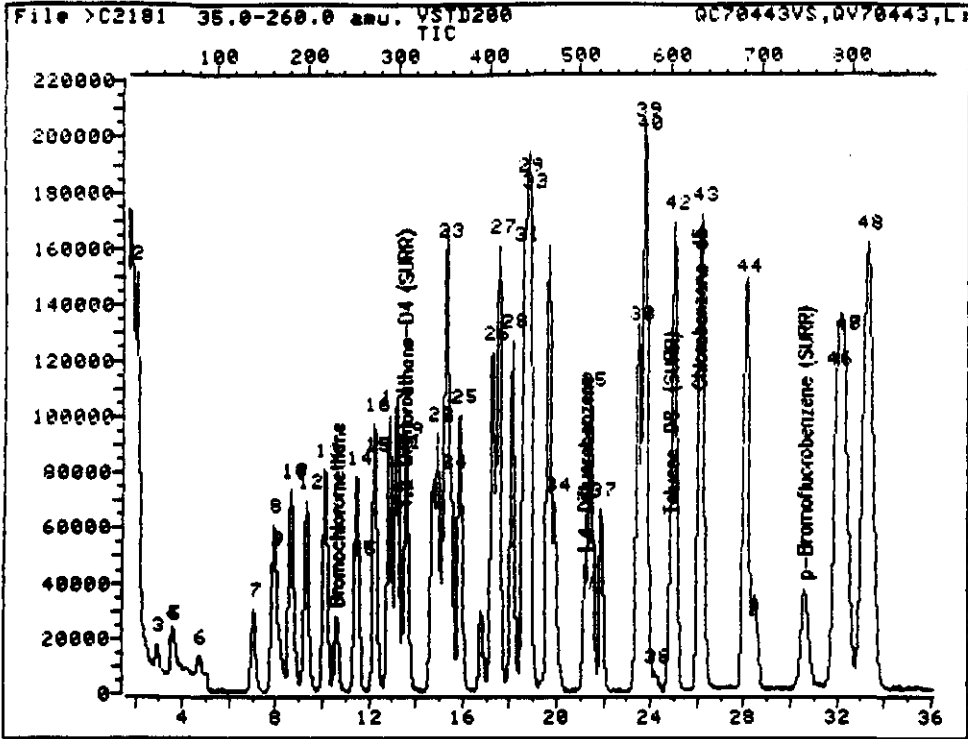
Quant Rev: 7 Quant Time: 910117 14:04
 Injected at: 910117 13:27
 Dilution Factor: 1.00000

ID File: IC1204::SS
 Title: IFB, PP/VOA, XVOA13
 Last Calibration: 910114 18:05

| | Compound | R.T. | Scan# | Area | Conc | Units | q |
|-----|------------------------------|-------|-------|--------|---------|-------|----|
| 41) | Toluene-D8 (SURRE) | 24.85 | 600 | 204687 | 261.34 | NG | 91 |
| 42) | Toluene | 25.01 | 604 | 333704 | 775.22 | NG | 95 |
| 43) | Chlorobenzene | 26.17 | 633 | 426708 | 775.72 | NG | 98 |
| 44) | Ethylbenzene | 28.07 | 682 | 211179 | 789.25 | NG | 80 |
| 45) | p-Bromofluorobenzene (SURRE) | 30.59 | 747 | 118498 | 262.44 | NG | 95 |
| 46) | Styrene | 32.03 | 784 | 444303 | 811.99 | NG | 96 |
| 47) | m-Xylene | 32.30 | 791 | 264328 | 795.89 | NG | 96 |
| 48) | o+p-Xylenes | 32.30 | 791 | 260670 | 854.71 | NG | 91 |
| 48) | o+p-Xylenes | 33.31 | 817 | 496282 | 1627.26 | NG | 91 |

* Compound is ISTD

TOTAL ION CHROMATOGRAM



Data File: >C2181::U1

Quant Output File: ^C2181::AQ

Name: USTD200

Misc: QC70443US,QU70443,L:M4,5,,

Id File: IC1204::SS

Title: IFB, PP/VOA, XVOA13

Last Calibration: 910114 18:05

Operator ID: KB6656

Quant Time: 910117 17:52

Injected at: 910117 17:15

QUANT REPORT

Operator ID: KB6656
 Output File: >C2181::AQ
 Data File: >C2181::U1
 Name: USTD200
 Misc: QC70443US,QU70443,L:M4,5,,

Quant Rev: 7 Quant Time: 910117 17:52
 Injected at: 910117 17:15
 Dilution Factor: 1.00000

ID File: IC1204::SS
 Title: IFB, PP/VOA, XVOA13
 Last Calibration: 910114 18:05

| | Compound | R.T. | Scan# | Area | Conc | Units | g |
|-----|------------------------------|-------|-------|--------|----------|-------|-----|
| 1) | *Bromochloromethane | 10.61 | 233 | 49324 | 250.00 | NG | 92 |
| 2) | Methyl chloride | 2.01 | 11 | 200960 | 2074.79 | NG | 97 |
| 3) | Methyl bromide | 2.94 | 35 | 28675 | 905.32 | NG | 95 |
| 4) | Dichlorodifluoromethane | 3.56 | 51 | 66610 | 990.46 | NG | 97 |
| 5) | Vinyl chloride | 3.63 | 53 | 52275 | 997.34 | NG | 98 |
| 6) | Chloroethane | 4.72 | 81 | 36302 | 1003.22 | NG | 94 |
| 7) | Methylene chloride | 7.05 | 141 | 77848 | 1584.02 | NG | 98 |
| 8) | Acrolein | 7.90 | 163 | 408215 | 13960.26 | NG | 92 |
| 9) | Acetone | 7.98 | 165 | 93410 | 667.47 | NG | 93 |
| 10) | Acrylonitrile | 8.64 | 182 | 116205 | 1561.69 | NG | 97 |
| 11) | Carbon disulfide | 8.67 | 183 | 552497 | 785.16 | NG | 99 |
| 12) | Trichlorofluoromethane | 9.33 | 200 | 409329 | 855.84 | NG | 95 |
| 13) | 1,1-Dichloroethylene | 10.11 | 220 | 193475 | 859.83 | NG | 95 |
| 14) | 1,1-Dichloroethane | 11.47 | 255 | 440877 | 1077.89 | NG | 96 |
| 15) | Tetrahydrofuran | 11.58 | 258 | 61888 | 915.59 | NG | 100 |
| 15) | Tetrahydrofuran | 12.20 | 274 | 31588 | 467.32 | NG | 100 |
| 16) | 1,2-Trans-dichloroethylene | 12.24 | 275 | 217286 | 967.94 | NG | 92 |
| 17) | Chloroform | 12.86 | 291 | 457671 | 972.03 | NG | 97 |
| 18) | 1,2-Dichloroethane-D4 (SURR) | 13.52 | 308 | 98960 | 262.31 | NG | 85 |
| 19) | 1,2-Dichloroethane | 13.64 | 311 | 357076 | 1053.79 | NG | 98 |
| 20) | *1,4-Difluorobenzene | 21.20 | 506 | 218756 | 250.00 | NG | 96 |
| 21) | Methyl ethyl ketone | 13.56 | 309 | 27238 | 923.57 | NG | 97 |
| 22) | 1,1,1-Trichloroethane | 14.92 | 344 | 348304 | 960.53 | NG | 94 |
| 23) | Carbon tetrachloride | 14.92 | 344 | 51954 | 141.83 | NG | 98 |
| 23) | Carbon tetrachloride | 15.34 | 355 | 329341 | 899.04 | NG | 97 |
| 24) | Vinyl acetate | 15.54 | 360 | 654950 | 1248.50 | NG | 90 |
| 25) | Dichlorobromomethane | 15.93 | 370 | 393510 | 1012.28 | NG | 95 |
| 26) | 1,2-Dichloropropane | 17.28 | 405 | 318900 | 1071.32 | NG | 98 |
| 27) | cis-1,3-Dichloropropylene | 17.55 | 412 | 596487 | 1031.14 | NG | 94 |
| 28) | Trichloroethylene | 18.10 | 426 | 289001 | 877.62 | NG | 94 |
| 29) | Chlorodibromomethane | 18.76 | 443 | 333561 | 892.05 | NG | 97 |
| 30) | bis(Chloromethyl) ether | 18.76 | 443 | 115383 | 792.05 | NG | 100 |
| 31) | Benzene | 18.60 | 439 | 690730 | 942.10 | NG | 95 |
| 32) | 1,1,2-Trichloroethane | 18.87 | 446 | 193381 | 891.39 | NG | 82 |
| 33) | trans-1,3-Dichloropropylene | 18.87 | 446 | 175300 | 985.15 | NG | 94 |
| 34) | 2-Chloroethylvinyl ether | 19.92 | 473 | 188468 | 1065.33 | NG | 100 |
| 35) | Bromoform | 21.43 | 512 | 405453 | 894.13 | NG | 97 |
| 36) | *Chlorobenzene-d5 | 26.05 | 631 | 161368 | 250.00 | NG | 80 |
| 37) | Methyl-iso-butyl ketone | 21.90 | 524 | 355099 | 978.41 | NG | 88 |
| 38) | 2-Hexanone | 23.45 | 564 | 357546 | 1028.94 | NG | 85 |
| 38) | 2-Hexanone | 24.19 | 583 | 19206 | 55.27 | NG | 42 |
| 39) | 1,1,2,2-Tetrachloroethane | 23.76 | 572 | 300921 | 732.47 | NG | 94 |
| 40) | Tetrachloroethylene | 23.80 | 573 | 249609 | 682.31 | NG | 95 |

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QUANT REPORT

Page 2

Operator ID: KB6656
 Output File: ^C2181::AQ
 Data File: >C2181::U1
 Name: USTD200
 Misc: QC70443US,QU70443,L:M4,5,,

Quant Rev: 7 Quant Time: 910117 17:52
 Injected at: 910117 17:15
 Dilution Factor: 1.00000

ID File: IC1204::SS
 Title: IFB, PP/UDA, XUOA13
 Last Calibration: 910114 18:05

| | Compound | R.T. | Scan# | Area | Conc | Units | q |
|-----|-----------------------------|-------|-------|--------|---------|-------|----|
| 41) | Toluene-D8 (SURR) | 24.84 | 600 | 219578 | 233.71 | NG | 92 |
| 42) | Toluene | 25.04 | 605 | 446136 | 863.97 | NG | 94 |
| 43) | Chlorobenzene | 26.17 | 634 | 585280 | 886.96 | NG | 96 |
| 44) | Ethylbenzene | 28.07 | 683 | 295477 | 920.57 | NG | 80 |
| 45) | p-Bromofluorobenzene (SURR) | 30.59 | 748 | 130908 | 241.68 | NG | 95 |
| 46) | Styrene | 31.99 | 784 | 621762 | 947.24 | NG | 96 |
| 47) | m-Xylene | 32.30 | 792 | 371523 | 932.53 | NG | 97 |
| 48) | o+p-Xylenes | 32.30 | 792 | 366072 | 1000.60 | NG | 91 |
| 48) | o+p-Xylenes | 33.27 | 817 | 690610 | 1887.68 | NG | 90 |

* Compound is ISTD

7A
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: ETCNJ

Contract:

Lab Code: _____

Case No.: _____

SDG No.: _____

Instrument: ID: GC/MS C

Calibration Date: 01/18/91

Time: 1043

Lab File ID: 102184

Init Calib. Date(s): 01/17/91

01/17/91

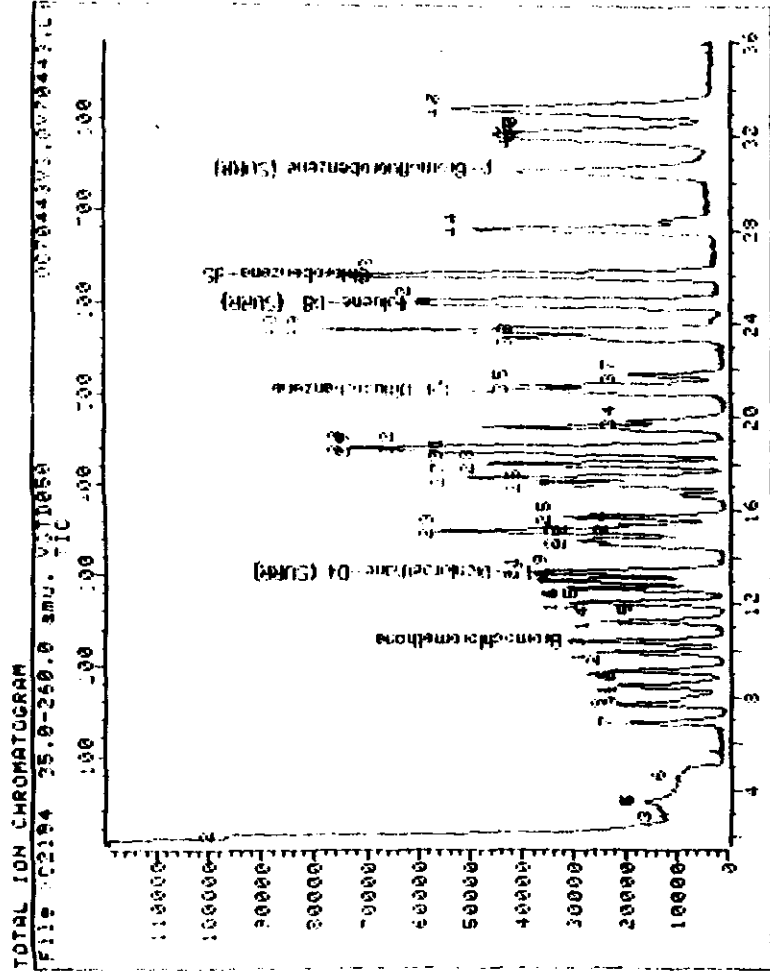
Matrix: (soil/water) WATER

Level: (low/med) LDW

Column: (pack/loop) PACH

Min RRF50 for SPCC(%) = 0.300 (0.250 for Bromoform) Max %RSD for SPCC = 25.0%

| COMPOUND | RRF | RRF50 | ND |
|----------------------------|-------|-------|-------|
| Chloromethane | .928 | .403 | 59.5# |
| Bromomethane | .160 | .139 | 13.4 |
| Vinyl Chloride | .264 | .267 | .9* |
| Chloroethane | .188 | .147 | 22.1 |
| Methylene Chloride | .713 | .840 | 17.9 |
| Acetone | .602 | .651 | 8.1 |
| Carbon Disulfide | 3.089 | 2.833 | 8.3 |
| 1,1-Dichloroethene | 1.042 | 1.031 | 1.0* |
| 1,1-Dichloroethane | 2.414 | 2.136 | 11.5# |
| 1,2-Dichloroethene (total) | 1.173 | 1.156 | 1.4 |
| Chloroform | 2.509 | 2.322 | 7.4* |
| 1,2-Dichloroethane | 1.967 | 1.696 | 13.8 |
| 2-Butanone | .038 | .036 | 6.1 |
| 1,1,1-Trichloroethane | .425 | .413 | 2.8 |
| Carbon Tetrachloride | .407 | .431 | 5.9 |
| Vinyl Acetate | .725 | .695 | 4.3 |
| Bromodichloromethane | .484 | .455 | 5.9 |
| 1,2-Dichloropropene | .402 | .361 | 10.4* |
| cis-1,3-Dichloropropene | .748 | .702 | 6.2 |
| Trichloroethene | .372 | .402 | 8.1 |
| Dibromochloromethane | .454 | .494 | 8.7 |
| 1,1,2-Trichloroethane | .273 | .279 | 2.1 |
| Benzene | .902 | .859 | 4.8 |
| trans-1,3-Dichloropropene | .234 | .224 | 4.2 |
| Bromoform | .505 | .528 | 4.6# |
| 1,4-Methyl-2-Pentanone | .602 | .612 | 1.7 |
| 2-Hexanone | .544 | .650 | 19.4 |
| Tetrachloroethene | .477 | .659 | 38.2 |
| 1,1,2,2-Tetrachloroethane | .595 | .673 | 13.1# |
| Toluene | .792 | .906 | 14.3* |
| Chlorobenzene | 1.034 | 1.034 | .0# |
| Ethylbenzene | .507 | .579 | 14.2* |
| Styrene | 1.065 | 1.179 | 10.7 |
| Xylene (total) | .599 | .658 | 9.8 |
| Toluene-d8 | 1.405 | 1.588 | 13.0 |
| Bromofluorobenzene | .819 | .863 | 5.4 |
| 1,2-Dichloroethane-d4 | 1.985 | 1.619 | 18.4 |



Data File: QC2184:1U1 Quant Output File: QC2184:1AD
 Name: USTD050

Mass: QC70443US,0070443.L:M4,S.1

Id File: IC1204:1SS
 Title: IFB, PP/004, X00A13
 Last Calibration: 910117 18:07

Operator ID: KB6656
 Quant Time: 910118 11:37
 Injected at: 910118 10:43

QUANT REPORT

Page 1

Operator ID: KB6656
 Output File: C2184::AQ
 Data File: C2184::U1
 Name: USTD050
 Misc: QC70443US,QU70443,L:M4,5,,

Quant Rev: 2 Quant Time: 910118 11:37
 Injected at: 910118 10:43
 Dilution Factor: 1.00000

ID File: IC1204::SS
 Title: IFB, PP/UDA, XUDA13
 Last Calibration: 910117 18:07

| Compound | R.T. | Scan# | Area | Conc | Units | g |
|----------------------------------|-------|-------|--------|---------|-------|-----|
| 1) *Bromochloromethane | 10.38 | 227 | 61891 | 250.00 | NG | 96 |
| 2) Methyl chloride | 1.97 | 10 | 24965 | 108.63 | NG | 97 |
| 3) Methyl bromide | 2.86 | 33 | 8549 | 216.41 | NG | 95 |
| 4) Dichlorodifluoromethane | 3.48 | 49 | 21378 | 270.38 | NG | 92 |
| 5) Vinyl chloride | 3.56 | 51 | 16505 | 252.35 | NG | 98 |
| 6) Chloroethane | 4.61 | 78 | 9069 | 194.81 | NG | 94 |
| 7) Methylene chloride | 6.90 | 137 | 52017 | 294.64 | NG | 99 |
| 8) Acrolein | 7.67 | 157 | 165022 | 3969.86 | NG | 91 |
| 9) Acetone | 7.75 | 159 | 40285 | 270.19 | NG | 98 |
| 10) Acrylonitrile | 8.45 | 177 | 36304 | 329.38 | NG | 90 |
| 11) Carbon disulfide | 8.52 | 179 | 175317 | 229.22 | NG | 99 |
| 12) Trichlorofluoromethane | 9.14 | 195 | 128440 | 238.34 | NG | 94 |
| 13) 1,1-Dichloroethylene | 9.92 | 215 | 63832 | 247.44 | NG | 95 |
| 14) 1,1-Dichloroethane | 11.28 | 250 | 132223 | 221.27 | NG | 99 |
| 15) Tetrahydrofuran | 11.35 | 252 | 19952 | 187.50 | NG | 100 |
| 15) Tetrahydrofuran | 12.01 | 269 | 9325 | 87.63 | NG | 100 |
| 16) 1,2-Trans-dichloroethylene | 12.05 | 270 | 71532 | 246.42 | NG | 98 |
| 17) Chloroform | 12.67 | 286 | 143722 | 231.42 | NG | 99 |
| 18) 1,2-Dichloroethane-D4 (SURR) | 13.33 | 303 | 100205 | 203.89 | NG | 81 |
| 19) 1,2-Dichloroethane | 13.45 | 306 | 104982 | 215.57 | NG | 97 |
| 20) *1,4-Difluorobenzene | 21.09 | 503 | 270337 | 250.00 | NG | 92 |
| 21) Methyl ethyl ketone | 13.41 | 305 | 9773 | 234.82 | NG | 97 |
| 22) 1,1,1-Trichloroethane | 14.77 | 340 | 111579 | 242.96 | NG | 99 |
| 23) Carbon tetrachloride | 14.73 | 339 | 17745 | 40.34 | NG | 94 |
| 23) Carbon tetrachloride | 15.15 | 350 | 116457 | 264.72 | NG | 97 |
| 24) Vinyl acetate | 15.39 | 356 | 187763 | 239.35 | NG | 93 |
| 25) Dichlorobromomethane | 15.73 | 365 | 123101 | 235.16 | NG | 96 |
| 26) 1,2-Dichloropropane | 17.13 | 401 | 97458 | 224.02 | NG | 98 |
| 27) cis-1,3-Dichloropropylene | 17.40 | 408 | 189743 | 234.61 | NG | 96 |
| 28) Trichloroethylene | 17.98 | 423 | 108662 | 270.28 | NG | 85 |
| 29) Chlorodibromomethane | 18.64 | 440 | 133466 | 271.83 | NG | 98 |
| 30) bis(Chloromethyl) ether | 18.64 | 440 | 36978 | 228.01 | NG | 100 |
| 31) Benzene | 18.49 | 436 | 232100 | 237.93 | NG | 96 |
| 32) 1,1,2-Trichloroethane | 18.76 | 443 | 75401 | 255.21 | NG | 87 |
| 33) trans-1,3-Dichloropropylene | 18.72 | 442 | 60498 | 239.48 | NG | 96 |
| 34) 2-Chloroethylvinyl ether | 19.81 | 470 | 54269 | 211.94 | NG | 100 |
| 35) Bromoform | 21.36 | 510 | 142850 | 261.45 | NG | 98 |
| 36) *Chlorobenzene-d5 | 25.97 | 629 | 163017 | 250.00 | NG | 91 |
| 37) Methyl-iso-butyl ketone | 21.78 | 521 | 99833 | 254.31 | NG | 90 |
| 38) 2-Hexanone | 23.33 | 561 | 105895 | 298.50 | NG | 90 |
| 39) 1,1,2,2-Tetrachloroethane | 23.64 | 569 | 109742 | 282.87 | NG | 94 |
| 40) Tetrachloroethylene | 23.68 | 570 | 107405 | 345.53 | NG | 96 |
| 41) Toluene-D8 (SURR) | 24.77 | 598 | 258848 | 282.61 | NG | 91 |

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QUANT REPORT

Page 2

Operator ID: KB6656
 Output File: ^C2184::AQ
 Data File: ^C2184::U1
 Name: USTD050
 Misc: QC70443US,QU70443,L:M4,5,,

Quant Rev: 7 Quant Time: 910118 11:37
 Injected at: 910118 10:43
 Dilution Factor: 1.00000

ID File: IC1204::SS
 Title: IFB, PP/VOA, XVOA13
 Last Calibration: 910117 18:07

| | Compound | R.T. | Scan# | Area | Conc | Units | |
|-----|-----------------------------|-------|-------|--------|--------|-------|----|
| 42) | Toluene | 24.96 | 603 | 147628 | 285.75 | NG | 91 |
| 43) | Chlorobenzene | 26.12 | 631 | 168528 | 250.02 | NG | 91 |
| 44) | Ethylbenzene | 28.02 | 680 | 94382 | 285.46 | NG | 92 |
| 45) | p-Bromofluorobenzene (SURR) | 30.51 | 744 | 140630 | 263.46 | NG | 92 |
| 46) | Styrene | 31.90 | 780 | 192230 | 276.71 | NG | 95 |
| 47) | m-Xylene | 32.21 | 788 | 113759 | 273.36 | NG | 98 |
| 47) | m-Xylene | 33.14 | 812 | 196053 | 471.11 | NG | 98 |
| 48) | o+p-Xylenes | 32.21 | 788 | 108551 | 277.80 | NG | 99 |
| 48) | o+p-Xylenes | 33.14 | 812 | 214576 | 549.13 | NG | 90 |

* Compound is ISTD

7A
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name:ETCND

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.:

Instrument ID:GD/MS C

Calibration Date: 01/19/91

Time: 1434

Lab File ID: 9C2199

Init Calib. Dates(s): 01/17/91 01/17/91

Matrix:(soil/water) WATER

Level:(low/med) LOW

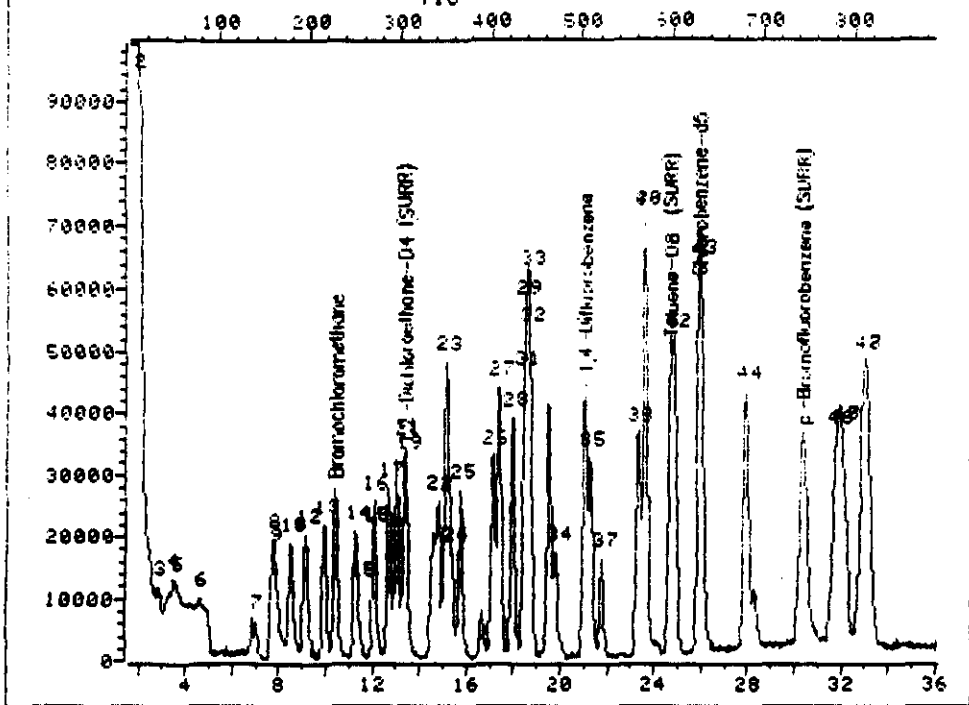
Column:(pack/cap) PACK

Min RRF50 for SPCC(%) = 0.300 (0.250 for Bromoform) Max %RSD for SPCC(%) = 25.0%

| COMPOUND | RRF | RRF50 | %D |
|----------------------------|-------|-------|-------|
| Chloromethane | .928 | .459 | 50.5# |
| Bromomethane | .160 | .129 | 19.0 |
| Vinyl Chloride | .264 | .261 | 1.3* |
| Chloroethane | .188 | .162 | 13.9 |
| Methylene Chloride | .713 | .292 | 59.0 |
| Acetone | .602 | .664 | 10.3 |
| Carbon Disulfide | 3.089 | 2.668 | 13.6 |
| 1,1-Dichloroethene | 1.042 | .997 | 4.3* |
| 1,1-Dichloroethane | 2.414 | 2.084 | 13.7# |
| 1,2-Dichloroethene (total) | 1.173 | 1.135 | 3.2 |
| Chloroform | 2.509 | 2.315 | 7.7* |
| 1,2-Dichloroethane | 1.967 | 1.722 | 12.4 |
| 2-Butanone | .038 | .042 | 8.6 |
| 1,1,1-Trichloroethane | .425 | .415 | 2.2 |
| Carbon Tetrachloride | .407 | .424 | 4.2 |
| Vinyl Acetate | .725 | .688 | 5.2 |
| Bromodichloromethane | .484 | .468 | 3.4 |
| 1,2-Dichloropropane | .402 | .375 | 6.8* |
| cis-1,3-Dichloropropene | .748 | .709 | 5.2 |
| Trichloroethene | .372 | .402 | 8.0 |
| Dibromochloromethane | .454 | .495 | 9.1 |
| 1,1,2-Trichloroethane | .273 | .282 | 3.4 |
| Benzene | .902 | .881 | 2.4 |
| trans-1,3-Dichloropropene | .234 | .226 | 3.1 |
| Bromoform | .505 | .518 | 2.6# |
| 4-Methyl-2-Pentanone | .602 | .480 | 20.2 |
| 2-Hexanone | .544 | .491 | 9.8 |
| Tetrachloroethene | .477 | .511 | 7.2 |
| 1,1,2,2-Tetrachloroethane | .595 | .535 | 10.1# |
| Toluene | .792 | .723 | 8.8* |
| Chlorobenzene | 1.034 | .973 | 5.9# |
| Ethylbenzene | .507 | .474 | 6.6* |
| Styrene | 1.065 | .991 | 7.0 |
| Xylene (total) | .599 | .560 | 6.6 |
| Toluene-d8 | 1.405 | 1.269 | 9.6 |
| Bromofluorobenzene | .819 | .705 | 13.9 |
| 1,2-Dichloroethane-d4 | 1.985 | 1.644 | 17.2 |

TOTAL ION CHROMATOGRAM

File >C2199 35.0-260.0 amu. VST0050 QC70443VS,QU70443,L



Data File: >C2199::U1 Quant Output File: ^C2199::AQ
Name: USTD050
Misc: QC70443VS,QU70443,L:M4,5,,

Id File: IC1204::SS
Title: IFB, PP/VOA, XVOA13
Last Calibration: 910118 11:53

Operator ID: KB6656
Quant Time: 910119 15:11
Injected at: 910119 14:34

QUANT REPORT

Page 1

Operator ID: KB6656
 Output File: C02199::AQ
 Data File: >C02199::U1
 Name: USTD050
 Misc: Q070443US, Q070443, L:M4,5,,

Quant Rev: 7 Quant Time: 910119 15:11
 Injected at: 910119 14:34
 Dilution Factor: 1.00000

ID File: IC1204::55
 Title: IFB, PPVQA, XUDA13
 Last Calibration: 910118 11:53

| | Compound | R.T. | Scan# | Area | Conc | Units | |
|-----|------------------------------|-------|-------|--------|---------|-------|-----|
| 1) | *Bromochloromethane | 10.45 | 229 | 94089 | 250.00 | NG | 97 |
| 2) | Methyl chloride | 1.96 | 10 | 24829 | 284.50 | NG | 97 |
| 3) | Methyl bromide | 2.86 | 33 | 6994 | 234.03 | NG | 97 |
| 4) | Dichlorodifluoromethane | 3.48 | 49 | 17711 | 236.99 | NG | 92 |
| 5) | Vinyl chloride | 3.59 | 52 | 14098 | 244.34 | NG | 96 |
| 6) | Chloroethane | 4.60 | 78 | 8755 | 276.16 | NG | 97 |
| 7) | Methylene chloride | 7.00 | 140 | 15802 | 86.90 | NG | 95 |
| 8) | Acrolein | 7.74 | 159 | 137823 | 3822.59 | NG | 90 |
| 9) | Acetone | 7.82 | 161 | 35934 | 255.16 | NG | 98 |
| 10) | Acrylonitrile | 8.52 | 179 | 31598 | 398.37 | NG | 99 |
| 11) | Carbon disulfide | 8.52 | 179 | 144329 | 235.50 | NG | 98 |
| 12) | Trichlorofluoromethane | 9.14 | 195 | 115018 | 256.17 | NG | 96 |
| 13) | 1,1-Dichloroethylene | 9.95 | 216 | 53923 | 241.65 | NG | 95 |
| 14) | 1,1-Dichloroethane | 11.31 | 251 | 112703 | 243.83 | NG | 98 |
| 15) | Tetrahydrofuran | 11.42 | 254 | 20339 | 291.61 | NG | 100 |
| 15) | Tetrahydrofuran | 12.04 | 270 | 7478 | 107.22 | NG | 100 |
| 16) | 1,2-Trans-dichloroethylene | 12.08 | 271 | 61398 | 245.53 | NG | 96 |
| 17) | Chloroform | 12.70 | 287 | 125206 | 249.21 | NG | 97 |
| 18) | 1,2-Dichloroethane-D4 (SURR) | 13.40 | 305 | 88929 | 253.87 | NG | 96 |
| 19) | 1,2-Dichloroethane | 13.48 | 307 | 93168 | 253.87 | NG | 97 |
| 20) | *1,4-Difluorobenzene | 21.08 | 503 | 222969 | 250.00 | NG | 91 |
| 21) | Methyl ethyl ketone | 13.44 | 306 | 9321 | 289.09 | NG | 99 |
| 22) | 1,1,1-Trichloroethane | 14.80 | 341 | 92584 | 251.51 | NG | 94 |
| 23) | Carbon tetrachloride | 14:80 | 341 | 14937 | 38.88 | NG | 98 |
| 23) | Carbon tetrachloride | 15.18 | 351 | 94522 | 246.02 | NG | 98 |
| 24) | Vinyl acetate | 15.42 | 357 | 153425 | 247.68 | NG | 93 |
| 25) | Dichlorobromomethane | 15.77 | 366 | 104304 | 256.83 | NG | 98 |
| 26) | 1,2-Dichloropropane | 17.12 | 401 | 83639 | 260.13 | NG | 99 |
| 27) | cis-1,3-Dichloropropylene | 17.39 | 408 | 158099 | 252.56 | NG | 97 |
| 28) | Trichloroethylene | 17.98 | 423 | 89526 | 249.73 | NG | 87 |
| 29) | Chlorodibromomethane | 18.60 | 439 | 110410 | 250.75 | NG | 94 |
| 30) | bis(Chloromethyl) ether | 18.63 | 440 | 31890 | 261.40 | NG | 100 |
| 31) | Benzene | 18.48 | 436 | 196366 | 256.44 | NG | 97 |
| 32) | 1,1,2-Trichloroethane | 18.75 | 443 | 62974 | 253.15 | NG | 87 |
| 33) | trans-1,3-Dichloropropylene | 18.71 | 442 | 50466 | 252.85 | NG | 98 |
| 34) | 2-Chloroethylvinyl ether | 19.80 | 470 | 47843 | 267.22 | NG | 100 |
| 35) | Bromoform | 21.31 | 509 | 115535 | 245.15 | NG | 97 |
| 36) | *Chlorobenzene-d5 | 25.92 | 628 | 173290 | 250.00 | NG | 88 |
| 37) | Methyl-iso-butyl ketone | 21.78 | 521 | 83204 | 196.01 | NG | 91 |
| 38) | 2-Hexanone | 23.33 | 561 | 85033 | 188.85 | NG | 86 |
| 39) | 1,1,2,2-Tetrachloroethane | 23.64 | 569 | 92699 | 198.66 | NG | 96 |
| 40) | Tetrachloroethylene | 23.64 | 569 | 88583 | 193.97 | NG | 97 |
| 41) | Toluene-D8 (SURR) | 24.72 | 597 | 219968 | 199.85 | NG | 81 |

QUANT REPORT

Operator ID: KB6656 Quant Rev: 7 Quant Time: 910119 15:11
 Output File: >C2199::AQ Injected at: 910119 14:34
 Data File: >C2199::U1 Dilution Factor: 1.00000
 Name: USTD050
 Misc: QC7044305,OU70443,L:M4,5,,

ID File: IC1204::SS
 Title: IFB, PP/VOA, XVOA13
 Last Calibration: 910118 11:53

| | Compound | R.T. | Scan# | Area | Conc | Units | |
|-----|-----------------------------|-------|-------|--------|--------|-------|----|
| 42) | Toluene | 24.92 | 602 | 126250 | 199.73 | NG | 94 |
| 43) | Chlorobenzene | 26.05 | 651 | 168606 | 235.29 | NG | 91 |
| 44) | Ethylbenzene | 27.95 | 680 | 82071 | 204.50 | NG | 87 |
| 45) | p-Bromofluorobenzene (SURR) | 30.39 | 743 | 122151 | 204.28 | NG | 99 |
| 46) | Styrene | 31.83 | 780 | 171709 | 210.07 | NG | 95 |
| 47) | m-Xylene | 32.10 | 787 | 103036 | 213.01 | NG | 98 |
| 47) | m-Xylene | 33.03 | 911 | 180691 | 373.55 | NG | 99 |
| 48) | o+p-Xylenes | 32.10 | 787 | 98749 | 216.46 | NG | 89 |
| 48) | o+p-Xylenes | 33.03 | 911 | 193988 | 425.23 | NG | 89 |

* Compound is ISTD

6A
VOLATILE ORGANICS INITIAL CALIBRATION DATA

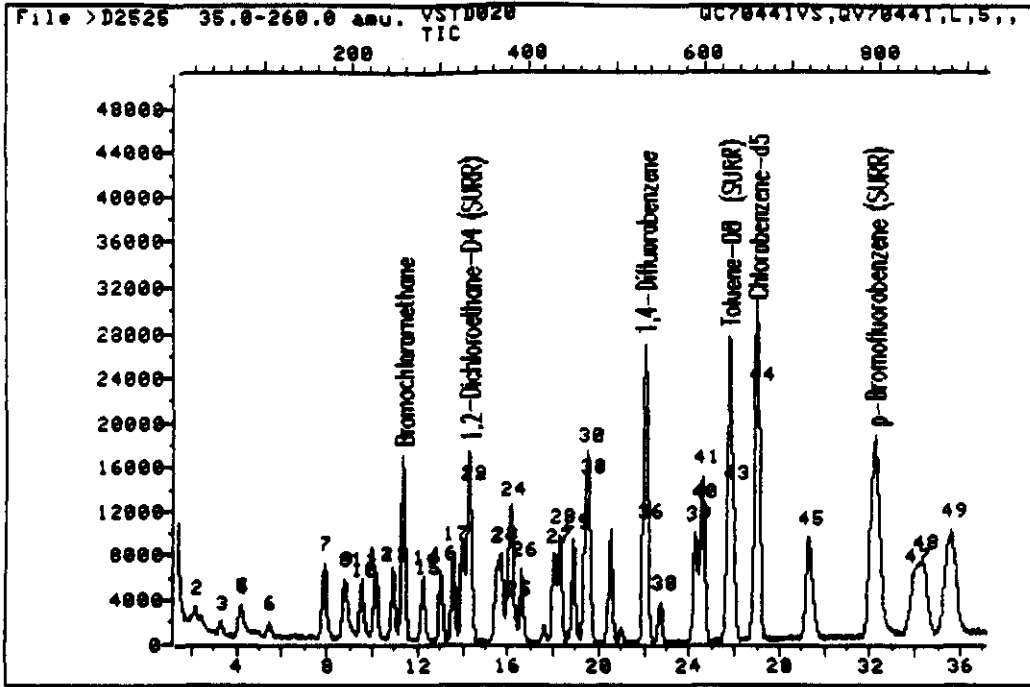
Lab Name: ETC Corp. Laboratory: Contract:
 Lab Code: Case No.: SRS No.: SUG No.:
 Instrument ID: GC/MS D Calibration Date(s): 01/08/91 01/08/92

Matrix: (soil/water) WATER Level: (low/med) LMW Column: (pack/cap) PALK
 Min KRF for SPCU(#): 0.300 (0.250 for Bromoform) Max %MSD for LOD(*) = 20.0

LAB FILE ID: KRF20 =>D2525 KRF50 = 02524
 KRF100=>D2523 KRF150=>D2522 KRF200=>D2521

| COMPOUND | KRF20 | KRF50 | KRF100 | KRF150 | KRF200 | KRF | % |
|------------------------------|---------|-------|--------|--------|--------|-------|------|
| Chloromethane | # 1.053 | 1.192 | 1.220 | 1.181 | 1.237 | 1.176 | 6.2 |
| Bromomethane | .455 | .483 | .483 | .426 | .436 | .456 | 5.7 |
| Vinyl Chloride | * 1.078 | .957 | .911 | .814 | .957 | .943 | 10.1 |
| Chloroethane | .848 | .865 | .817 | .754 | .799 | .817 | 5.3 |
| Methylene Chloride | 1.792 | 1.603 | 1.451 | 1.206 | 1.304 | 1.471 | 15.9 |
| Acetone | 1.174 | .692 | .739 | .625 | .694 | .789 | 28.2 |
| Carbon Disulfide | 3.839 | 4.205 | 4.206 | 4.153 | 4.446 | 4.186 | 5.2 |
| 1,1,1-Dichloroethane | * 1.250 | 1.311 | 1.293 | 1.252 | 1.308 | 1.283 | 2.5 |
| 1,1,1-Dichloroethane | # 2.789 | 2.874 | 2.842 | 2.457 | 2.457 | 2.610 | 6.5 |
| 1,1,2-Dichloroethane (total) | 1.250 | 1.386 | 1.367 | 1.260 | 1.328 | 1.318 | 4.7 |
| Chloroform | * 3.502 | 3.513 | 3.529 | 3.228 | 3.320 | 3.418 | 4.0 |
| 1,1,2-Dichloroethane | 3.217 | 3.155 | 3.165 | 2.841 | 2.868 | 3.049 | 5.9 |
| 2-Butanone | .035 | .028 | .031 | .028 | .029 | .030 | 10.4 |
| 1,1,1-Trichloroethane | .664 | .667 | .658 | .622 | .613 | .641 | 3.8 |
| Carbon Tetrachloride | .526 | .548 | .527 | .515 | .500 | .523 | 5.4 |
| Vinyl Acetate | .531 | .608 | .600 | .698 | .690 | .626 | 11.1 |
| Bromodichloromethane | .606 | .609 | .609 | .597 | .574 | .599 | 2.4 |
| 1,1,2-Dichloropropane | * .342 | .334 | .348 | .348 | .355 | .346 | 2.5 |
| cis-1,3-Dichloropropene | .734 | .734 | .767 | .760 | .745 | .748 | 2.0 |
| Trichloroethene | .443 | .441 | .425 | .421 | .407 | .427 | 3.0 |
| 1,1,1,2-Tetrachloroethane | .477 | .489 | .504 | .480 | .442 | .478 | 4.8 |
| 1,1,1,2-Trichloroethane | .289 | .281 | .288 | .279 | .264 | .280 | 3.6 |
| Benzene | .956 | .949 | .962 | .970 | .965 | .950 | .8 |
| trans-1,3-Dichloropropene | .238 | .241 | .249 | .240 | .231 | .240 | 2.8 |
| Bromoform | * .299 | .326 | .349 | .349 | .328 | .330 | 6.3 |
| 4-Methyl-2-Pentanone | .458 | .449 | .479 | .453 | .449 | .458 | 2.8 |
| 2-Hexanone | .414 | .412 | .545 | .448 | .525 | .469 | -3.4 |
| Tetrachloroethane | .517 | .519 | .510 | .501 | .481 | .506 | 3.0 |
| 1,1,1,2,2-Tetrachloroethane | * .576 | .569 | .604 | .597 | .556 | .580 | 3.4 |
| Toluene | * .752 | .745 | .752 | .740 | .733 | .749 | .8 |
| Chlorobenzene | # 1.019 | 1.014 | 1.015 | .993 | .986 | 1.005 | 1.5 |
| Ethylbenzene | * .467 | .467 | .461 | .461 | .462 | .464 | .6 |
| Styrene | .942 | .958 | .949 | .942 | .942 | .957 | .8 |
| Xylene (total) | .555 | .560 | .549 | .546 | .546 | .553 | 1.0 |
| Toluene-d8 | 1.228 | 1.200 | 1.266 | 1.267 | 1.260 | 1.254 | 1.3 |
| Bromofluorobenzene | .866 | .879 | .868 | .870 | .871 | .872 | .6 |
| 1,1,2-Dichloroethane-d4 | 2.854 | 2.966 | 3.053 | 2.816 | 2.899 | 2.918 | 3.2 |

TOTAL ION CHROMATOGRAM



Data File: >D2525::U0 Quant Output File: ^D2525::AQ

Name: USTD020

Misc: QC70441VS,QU70441,L,5,,

Id File: ID0308::SS

Title: PP/VOA, IFB, XUQA13, XUQA9

Last Calibration: 910108 16:09

Operator ID: KB6656

Quant Time: 910108 20:17

Injected at: 910108 19:39

QUANT REPORT

Operator ID: KB6656
 Output File: ^D2525::AQ
 Data File: >D2525::U0
 Name: USTD020
 Misc: QC70441US,QU70441,L,5,,

Quant Rev: 7 Quant Time: 910108 20:17
 Injected at: 910108 19:39
 Dilution Factor: 1.00000

ID File: ID0308::SS
 Title: PP/VOA, IFB, XVOA13, XVOA9
 Last Calibration: 910108 16:09

| Compound | R.T. | Scan# | Area | Conc | Units | q |
|----------------------------------|-------|-------|--------|---------|-------|-----|
| 1) *Bromochloromethane | 11.35 | 259 | 26225 | 250.00 | NG | 97 |
| 2) Methyl chloride | 2.16 | 22 | 11044 | 125.13 | NG | 92 |
| 3) Methyl bromide | 3.25 | 50 | 4773 | 41.77 | NG | 90 |
| 4) Dichlorodifluoromethane | 4.14 | 73 | 13707 | 124.16 | NG | 94 |
| 5) Vinyl chloride | 4.18 | 74 | 11309 | 67.59 | NG | 95 |
| 6) Chloroethane | 5.42 | 106 | 8899 | 84.13 | NG | 93 |
| 7) Methylene chloride | 7.86 | 169 | 18797 | 90.08 | NG | 95 |
| 8) Acrolein | 8.75 | 192 | 28454 | 4142.92 | NG | 94 |
| 9) Acetone | 8.79 | 193 | 12318 | 77.73 | NG | 89 |
| 10) Acrylonitrile | 9.49 | 211 | 6525 | 165.80 | NG | 89 |
| 11) Carbon disulfide | 9.53 | 212 | 40267 | 108.94 | NG | 99 |
| 12) Trichlorofluoromethane | 10.15 | 228 | 31614 | 152.47 | NG | 97 |
| 13) 1,1-Dichloroethylene | 10.89 | 247 | 13114 | 54.93 | NG | 92 |
| 14) 1,1-Dichloroethane | 12.24 | 282 | 29257 | 98.05 | NG | 98 |
| 15) Tetrahydrofuran | 12.28 | 283 | 4104 | 5923.20 | NG | 100 |
| 16) 1,2-Trans-dichloroethylene | 13.02 | 302 | 13110 | 62.47 | NG | 92 |
| 17) Chloroform | 13.56 | 316 | 36733 | 96.49 | NG | 99 |
| 18) 1,2-Dichloroethane-D4 (SURR) | 14.26 | 334 | 74838 | 279.59 | NG | 94 |
| 19) 1,2-Dichloroethane | 14.34 | 336 | 33745 | 98.32 | NG | 96 |
| 21) *1,4-Difluorobenzene | 22.01 | 534 | 109421 | 250.00 | NG | 95 |
| 22) Methyl ethyl ketone | 14.34 | 336 | 1549M | 18.77 | NG | |
| 23) 1,1,1-Trichloroethane | 15.69 | 371 | 29043 | 85.12 | NG | 91 |
| 24) Carbon tetrachloride | 15.65 | 370 | 3648 | 12.05 | NG | 98 |
| 24) Carbon tetrachloride | 16.08 | 381 | 23002 | 75.97 | NG | 93 |
| 25) Vinyl acetate | 16.31 | 387 | 23224 | 92.57 | NG | 98 |
| 26) Dichlorobromomethane | 16.59 | 394 | 26503 | 91.17 | NG | 93 |
| 27) 1,2-Dichloropropane | 18.06 | 432 | 14983 | 85.89 | NG | 98 |
| 28) cis-1,3-Dichloropropylene | 18.29 | 438 | 32129 | 128.86 | NG | 94 |
| 29) Trichloroethylene | 18.87 | 453 | 19395 | 96.54 | NG | 94 |
| 30) Chlorodibromomethane | 19.45 | 468 | 20896 | 96.44 | NG | 97 |
| 31) bis(Chloromethyl)ether | 19.45 | 468 | 7255 | 280.85 | NG | 100 |
| 32) Benzene | 19.45 | 468 | 41829 | 77.12 | NG | 89 |
| 33) 1,1,2-Trichloroethane | 19.57 | 471 | 12668 | 83.82 | NG | 88 |
| 34) trans-1,3-Dichloropropylene | 19.57 | 471 | 10410 | 39.90 | NG | 93 |
| 36) Bromoform | 22.17 | 538 | 13071 | 105.34 | NG | 92 |
| 37) *Chlorobenzene-d5 | 26.95 | 661 | 90573 | 250.00 | NG | 72 |
| 38) Methyl-iso-butyl ketone | 22.71 | 552 | 16577 | 107.23 | NG | 94 |
| 39) 2-Hexanone | 24.26 | 592 | 15006 | 107.44 | NG | 90 |
| 40) 1,1,2,2-Tetrachloroethane | 24.50 | 598 | 20863 | 85.09 | NG | 99 |
| 41) Tetrachloroethylene | 24.57 | 600 | 18731 | 62.05 | NG | 99 |
| 42) Toluene-D8 (SURR) | 25.74 | 630 | 111219 | 193.11 | NG | 94 |
| 43) Toluene | 25.93 | 635 | 27231 | 39.27 | NG | 96 |
| 44) Chlorobenzene | 27.06 | 664 | 36931 | 72.19 | NG | 97 |

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QUANT REPORT

Page 2

Operator ID: KB6656
 Output File: ^D2525::AQ
 Data File: >D2525::U0
 Name: USTD020
 Misc: QC70441US,QU70441,L,5,,

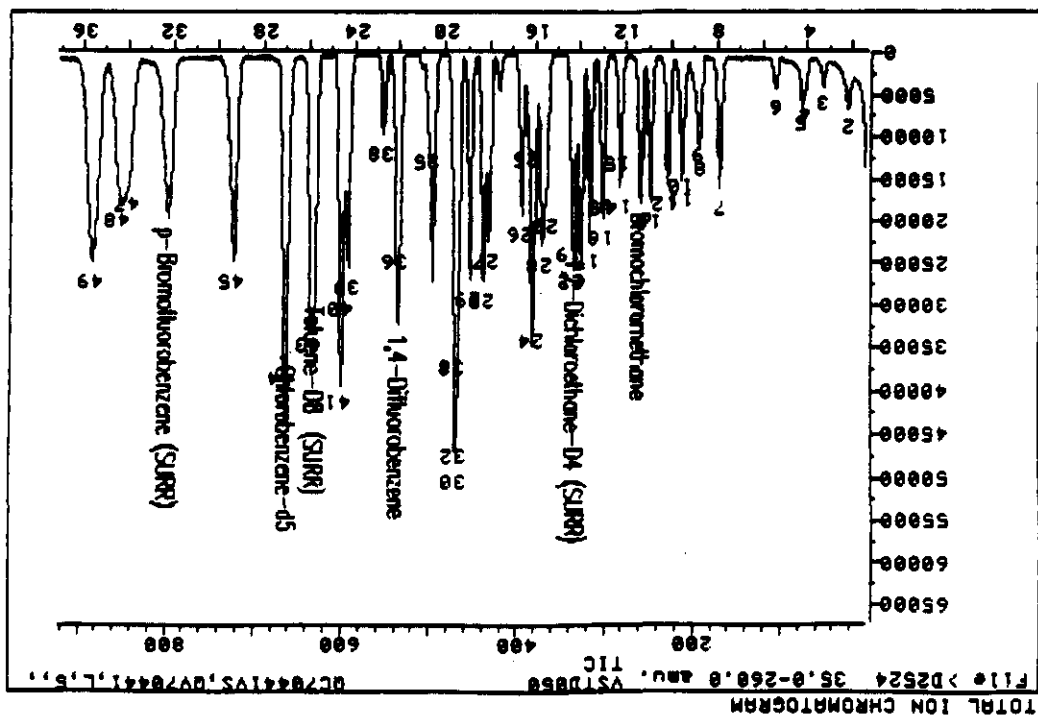
Quant Rev: 7 Quant Time: 910108 20:17
 Injected at: 910108 19:39
 Dilution Factor: 1.00000

ID File: ID0308::SS
 Title: PP/VOA, IFB, XVOA13, XVOA9
 Last Calibration: 910108 16:09

| | Compound | R.T. | Scan# | Area | Conc | Units | q |
|-----|-----------------------------|-------|-------|-------|--------|-------|----|
| 45) | Ethylbenzene | 29.27 | 721 | 16912 | 17.71 | NG | 79 |
| 46) | p-Bromofluorobenzene (SURR) | 32.18 | 796 | 78451 | 212.15 | NG | 77 |
| 47) | Styrene | 33.97 | 842 | 34140 | 45.50 | NG | 88 |
| 48) | m-Xylene | 34.35 | 852 | 21541 | 23.32 | NG | 93 |
| 49) | o+p-Xylenes | 35.56 | 883 | 40185 | 22.80 | NG | 88 |

* Compound is ISTD

Data File: >D2524:U0
 Name: USTD050
 Misc: DC70441VS,QV70441,L,5,,
 ID File: I00308:SS
 Title: PP/00A,IFB,XU0A13,XU0A9
 Last Calibration: 910109 10:44
 Operator ID: KB6656
 Quant Time: 910109 11:34
 Injected at: 910108 18:55



QUANT REPORT

Page 1

Operator ID: KB6656
 Output File: >D2524::AQ
 Data File: >D2524::U0
 Name: USTD050
 Misc: QC70441US,QU70441,L,5,,

Quant Rev: 7 Quant Time: 910109 11:34
 Injected at: 910108 18:55
 Dilution Factor: 1.00000

ID File: ID0308::SS
 Title: PP/VOA, IFB, XVOA13, XVOA9
 Last Calibration: 910109 10:44

| | Compound | R.T. | Scan# | Area | Conc | Units | q |
|-----|------------------------------|-------|-------|--------|---------|-------|-----|
| 1) | *Bromochloromethane | 11.35 | 259 | 27235 | 250.00 | NG | 98 |
| 2) | Methyl chloride | 2.16 | 22 | 32461 | 253.28 | NG | 97 |
| 3) | Methyl bromide | 3.29 | 51 | 13144 | 264.34 | NG | 94 |
| 4) | Dichlorodifluoromethane | 4.10 | 72 | 31864 | 254.55 | NG | 97 |
| 5) | Vinyl chloride | 4.22 | 75 | 26051 | 253.49 | NG | 95 |
| 6) | Chloroethane | 5.42 | 106 | 23562 | 264.78 | NG | 99 |
| 7) | Methylene chloride | 7.90 | 170 | 43657 | 272.38 | NG | 98 |
| 8) | Acrolein | 8.75 | 192 | 65137 | 3791.68 | NG | 88 |
| 9) | Acetone | 8.83 | 194 | 18840 | 220.35 | NG | 91 |
| 10) | Acrylonitrile | 9.49 | 211 | 18240 | 421.59 | NG | 92 |
| 11) | Carbon disulfide | 9.53 | 212 | 114526 | 252.37 | NG | 99 |
| 12) | Trichlorofluoromethane | 10.15 | 228 | 81304 | 244.42 | NG | 96 |
| 13) | 1,1-Dichloroethylene | 10.92 | 248 | 35706 | 255.47 | NG | 91 |
| 14) | 1,1-Dichloroethane | 12.24 | 282 | 78284 | 264.73 | NG | 98 |
| 15) | Tetrahydrofuran | 12.32 | 284 | 10249 | 292.48 | NG | 100 |
| 15) | Tetrahydrofuran | 12.98 | 301 | 4549 | 129.82 | NG | 100 |
| 16) | 1,2-Trans-dichloroethylene | 13.02 | 302 | 37760 | 262.92 | NG | 90 |
| 17) | Chloroform | 13.60 | 317 | 95683 | 256.94 | NG | 96 |
| 18) | 1,2-Dichloroethane-D4 (SURR) | 14.26 | 334 | 80783 | 254.16 | NG | 95 |
| 19) | 1,2-Dichloroethane | 14.37 | 337 | 85915 | 258.65 | NG | 97 |
| 20) | Methyl tertiary butyl ether | 15.50 | 366 | 76595 | 248.48 | NG | 98 |
| 21) | *1,4-Difluorobenzene | 22.05 | 535 | 119343 | 250.00 | NG | 98 |
| 22) | Methyl ethyl ketone | 14.34 | 336 | 3307 | 229.66 | NG | 96 |
| 23) | 1,1,1-Trichloroethane | 15.69 | 371 | 79592 | 260.24 | NG | 96 |
| 24) | Carbon tetrachloride | 15.69 | 371 | 9268 | 37.12 | NG | 95 |
| 24) | Carbon tetrachloride | 16.08 | 381 | 65396 | 261.93 | NG | 92 |
| 25) | Vinyl acetate | 16.31 | 387 | 72619 | 243.18 | NG | 97 |
| 26) | Dichlorobromomethane | 16.62 | 395 | 72659 | 254.12 | NG | 96 |
| 27) | 1,2-Dichloropropane | 18.06 | 432 | 39864 | 241.70 | NG | 92 |
| 28) | cis-1,3-Dichloropropylene | 18.29 | 438 | 87586 | 245.25 | NG | 93 |
| 29) | Trichloroethylene | 18.91 | 454 | 52607 | 258.38 | NG | 91 |
| 30) | Chlorodibromomethane | 19.49 | 469 | 58313 | 255.31 | NG | 97 |
| 31) | bis(Chloromethyl)ether | 19.46 | 468 | 19922 | 256.04 | NG | 100 |
| 32) | Benzene | 19.46 | 468 | 113250 | 247.06 | NG | 90 |
| 33) | 1,1,2-Trichloroethane | 19.61 | 472 | 33520 | 250.53 | NG | 87 |
| 34) | trans-1,3-Dichloropropylene | 19.61 | 472 | 28801 | 251.50 | NG | 90 |
| 35) | 2-Chloroethylvinyl ether | 20.74 | 501 | 23582 | 244.83 | NG | 100 |
| 36) | Bromoform | 22.17 | 538 | 38858 | 246.59 | NG | 94 |
| 37) | *Chlorobenzene-d5 | 26.95 | 661 | 94976 | 250.00 | NG | 68 |
| 38) | Methyl-iso-butyl ketone | 22.75 | 553 | 42632 | 245.23 | NG | 95 |
| 39) | 2-Hexanone | 24.26 | 592 | 39106 | 219.50 | NG | 88 |
| 40) | 1,1,2,2-Tetrachloroethane | 24.50 | 598 | 54029 | 245.02 | NG | 95 |
| 41) | Tetrachloroethylene | 24.61 | 601 | 49268 | 256.45 | NG | 97 |

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QUANT REPORT

Page 2

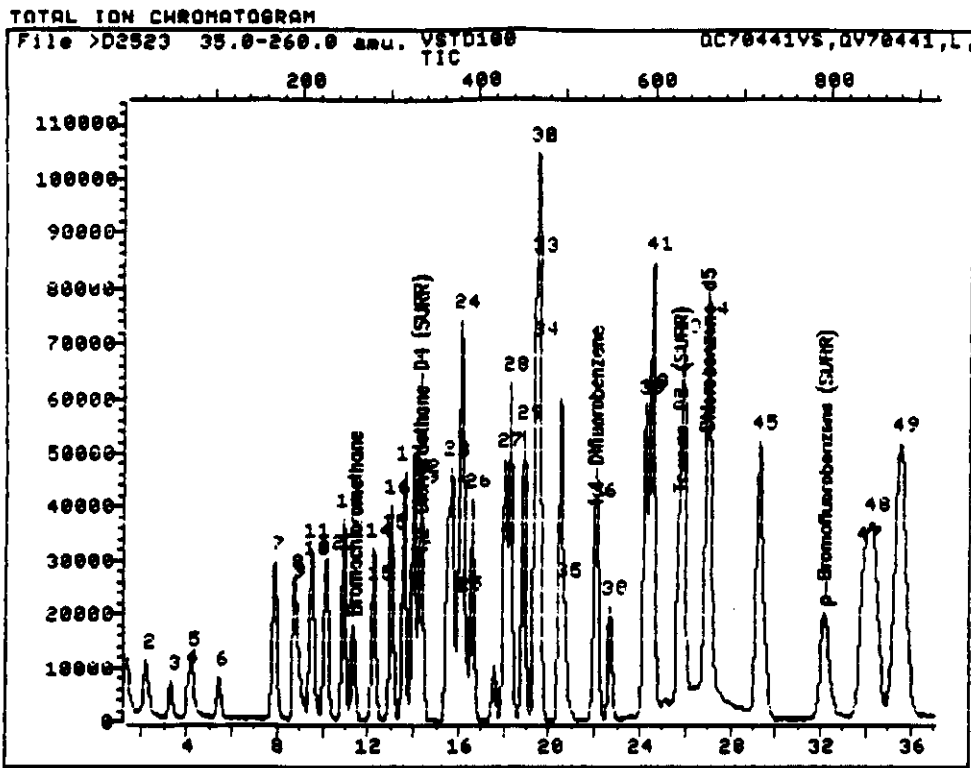
Operator ID: KB6656
 Output File: >D2524::AQ
 Data File: >D2524::U0
 Name: USTD050
 Misc: QC70441US,QU70441,L,5,,

Quant Rev: 7 Quant Time: 910109 11:34
 Injected at: 910108 18:55
 Dilution Factor: 1.00000

ID File: ID0308::SS
 Title: PP/VOA, IFB, XVOA13, XVOA9
 Last Calibration: 910109 10:44

| | Compound | R.T. | Scan# | Area | Conc | Units | g |
|-----|-----------------------------|-------|-------|--------|--------|-------|----|
| 42) | Toluene-D8 (SURR) | 25.74 | 630 | 118734 | 249.19 | NG | 94 |
| 43) | Toluene | 25.93 | 635 | 70780 | 248.90 | NG | 97 |
| 44) | Chlorobenzene | 27.10 | 665 | 96344 | 252.29 | NG | 94 |
| 45) | Ethylbenzene | 29.31 | 722 | 44354 | 251.80 | NG | 79 |
| 46) | p-Bromofluorobenzene (SURR) | 32.22 | 797 | 83266 | 251.47 | NG | 81 |
| 47) | Styrene | 34.01 | 843 | 90977 | 252.12 | NG | 89 |
| 48) | m-Xylene | 34.40 | 853 | 56479 | 251.07 | NG | 94 |
| 49) | o+p-Xylenes | 35.60 | 884 | 106291 | 505.87 | NG | 88 |

* Compound is ISTD



Data File: >D2523::U0 Quant Output File: ^D2523::AQ
 Name: VSTD100
 Misc: QC70441VS,QU70441,L,5,,

Id File: ID0308::SS
 Title: PP/UDA, IFB, XVOA13, XVOA9
 Last Calibration: 910108 16:09

Operator ID: KB6656
 Quant Time: 910108 18:49
 Injected at: 910108 18:11

QUANT REPORT

Operator ID: KB6656
 Output File: ^02523::AQ
 Data File: >02523::U0
 Name: USTD100
 Misc: QC70441US,QU70441,L,5,,

Quant Rev: 7 Quant Time: 910108 18:49
 Injected at: 910108 18:11
 Dilution Factor: 1.00000

ID File: IDU308::SS
 Title: PP/VOA, IFB, XVOA13, XVOA9
 Last Calibration: 910108 16:09

| | Compound | R.T. | Scan# | Area | Conc | Units | q |
|-----|------------------------------|-------|-------|--------|----------|-------|-----|
| 1) | *Bromochloromethane | 11.35 | 259 | 28139 | 250.00 | NG | 97 |
| 2) | Methyl chloride | 2.16 | 22 | 68641 | 724.82 | NG | 98 |
| 3) | Methyl bromide | 3.28 | 51 | 27166 | 221.57 | NG | 95 |
| 4) | Dichlorodifluoromethane | 4.10 | 72 | 62618 | 528.62 | NG | 92 |
| 5) | Vinyl chloride | 4.22 | 75 | 51280 | 285.62 | NG | 96 |
| 6) | Chloroethane | 5.42 | 106 | 45998 | 405.27 | NG | 97 |
| 7) | Methylene chloride | 7.90 | 170 | 81656 | 364.71 | NG | 98 |
| 8) | Acrolein | 8.75 | 192 | 157811 | 21414.46 | NG | 94 |
| 9) | Acetone | 8.83 | 194 | 41576 | 244.51 | NG | 92 |
| 10) | Acrylonitrile | 9.49 | 211 | 38599 | 914.11 | NG | 94 |
| 11) | Carbon disulfide | 9.53 | 212 | 236678 | 596.77 | NG | 99 |
| 12) | Trichlorofluoromethane | 10.15 | 228 | 158821 | 713.87 | NG | 97 |
| 13) | 1,1-Dichloroethylene | 10.92 | 248 | 72773 | 284.10 | NG | 89 |
| 14) | 1,1-Dichloroethane | 12.24 | 282 | 159932 | 499.52 | NG | 98 |
| 15) | Tetrahydrofuran | 12.32 | 284 | 20212 | 27187.22 | NG | 100 |
| 15) | Tetrahydrofuran | 12.98 | 301 | 17511 | 23554.11 | NG | 100 |
| 16) | 1,2-Trans-dichloroethylene | 13.02 | 302 | 76936 | 341.66 | NG | 92 |
| 17) | Chloroform | 13.60 | 317 | 198610 | 486.21 | NG | 95 |
| 18) | 1,2-Dichloroethane-D4 (SURR) | 14.26 | 334 | 85920 | 299.15 | NG | 95 |
| 19) | 1,2-Dichloroethane | 14.38 | 337 | 178138 | 483.75 | NG | 98 |
| 21) | *1,4-Difluorobenzene | 22.02 | 534 | 127964 | 250.00 | NG | 95 |
| 22) | Methyl ethyl ketone | 14.34 | 336 | 7848 | 81.31 | NG | 98 |
| 23) | 1,1,1-Trichloroethane | 15.69 | 371 | 163268 | 409.18 | NG | 94 |
| 24) | Carbon tetrachloride | 15.69 | 371 | 19901 | 56.21 | NG | 94 |
| 24) | Carbon tetrachloride | 16.12 | 382 | 134963 | 381.18 | NG | 96 |
| 25) | Vinyl acetate | 16.31 | 387 | 153621 | 523.57 | NG | 97 |
| 26) | Dichlorobromomethane | 16.62 | 395 | 155916 | 458.63 | NG | 94 |
| 27) | 1,2-Dichloropropane | 18.06 | 432 | 89113 | 436.82 | NG | 92 |
| 28) | cis-1,3-Dichloropropylene | 18.29 | 438 | 196385 | 673.52 | NG | 94 |
| 29) | Trichloroethylene | 18.87 | 453 | 108811 | 463.15 | NG | 92 |
| 30) | Chlorodibromomethane | 19.46 | 468 | 129018 | 509.14 | NG | 98 |
| 31) | bis(Chloromethyl)ether | 19.46 | 468 | 43005 | 1423.53 | NG | 100 |
| 32) | Benzene | 19.46 | 468 | 246099 | 387.98 | NG | 90 |
| 33) | 1,1,2-Trichloroethane | 19.57 | 471 | 73744 | 417.24 | NG | 87 |
| 34) | trans-1,3-Dichloropropylene | 19.61 | 472 | 63788 | 209.07 | NG | 90 |
| 35) | 2-Chloroethylvinyl ether | 20.70 | 500 | 52880 | 478.93 | NG | 100 |
| 36) | Bromoform | 22.13 | 537 | 89299 | 615.39 | NG | 93 |
| 37) | *Chlorobenzene-d5 | 26.91 | 660 | 101831 | 250.00 | NG | 64 |
| 38) | Methyl-iso-butyl ketone | 22.71 | 552 | 97629 | 561.68 | NG | 92 |
| 39) | 2-Hexanone | 24.27 | 592 | 111047 | 707.21 | NG | 88 |
| 40) | 1,1,2,2-Tetrachloroethane | 24.46 | 597 | 122971 | 446.09 | NG | 94 |
| 41) | Tetrachloroethylene | 24.58 | 600 | 103964 | 306.35 | NG | 97 |
| 42) | Toluene-D8 (SURR) | 25.74 | 630 | 128954 | 199.15 | NG | 93 |

QUANT REPORT

Page 2

Operator ID: KB6656
Output File: ^D2523::AQ
Data File: >D2523::U0
Name: USTD100
Misc: QC70441VS,QU70441,L,5,,

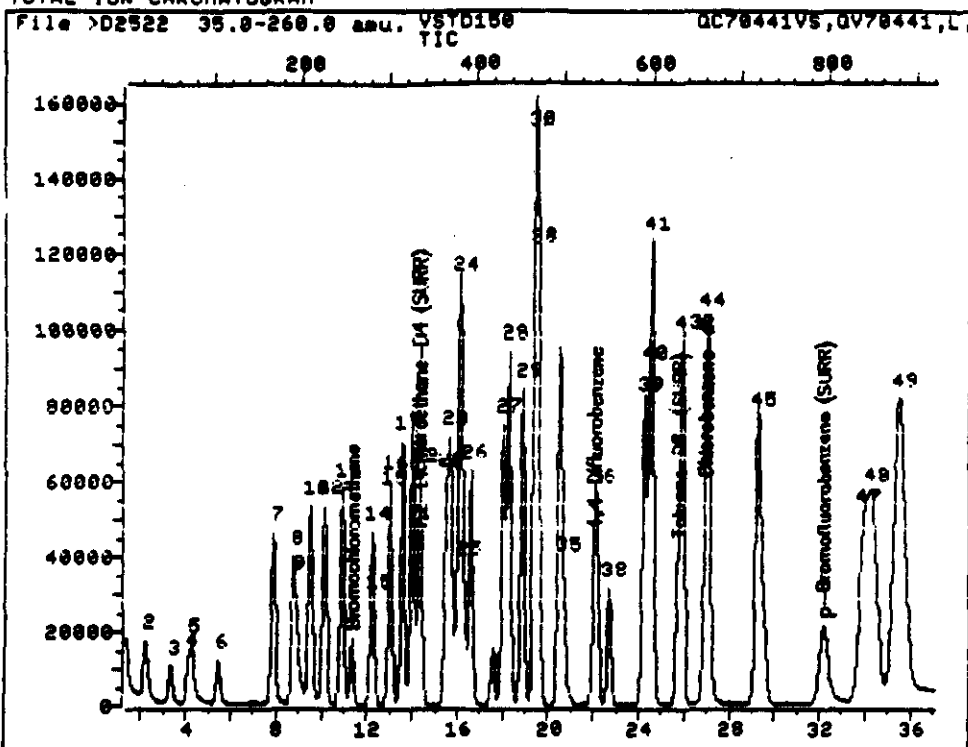
Quant Rev: 7 Quant Time: 910108 18:49
 Injected at: 910108 18:11
Dilution Factor: 1.00000

ID File: 100308::SS
Title: PP/VOA, IFB, XVUA13, XVUA9
Last Calibration: 910108 16:09

| | Compound | R.T. | Scan# | Area | Conc | Units | q |
|-----|-----------------------------|-------|-------|--------|--------|-------|----|
| 43) | Toluene | 25.90 | 634 | 153225 | 196.54 | NG | 96 |
| 44) | Chlorobenzene | 27.07 | 664 | 206293 | 358.67 | NG | 95 |
| 45) | Ethylbenzene | 29.28 | 721 | 93973 | 87.54 | NG | 79 |
| 46) | p-Bromofluorobenzene (SURR) | 32.15 | 795 | 88396 | 212.61 | NG | 78 |
| 47) | Styrene | 33.94 | 841 | 193371 | 229.22 | NG | 86 |
| 48) | m-Xylene | 34.32 | 851 | 119249 | 114.82 | NG | 91 |
| 49) | o+p-Xylenes | 35.53 | 882 | 223670 | 112.86 | NG | 88 |

* Compound is ISTD

TOTAL ION CHROMATOGRAM



Data File: >D2522::U0

Quant Output File: ^D2522::AQ

Name: USTD150

Misc: QC70441US, QV70441, L, 5, ,

Id File: ID0308::SS

Title: PP/VOA, IFB, XVOA13, XVOA9

Last Calibration: 910108 16:09

Operator ID: KB6656

Quant Time: 910108 18:05

Injected at: 910108 17:28

QUANT REPORT

Operator ID: KB6656
 Output File: ^D2522::AQ
 Data File: >D2522::UO
 Name: USTD150
 Misc: QC70441US,QU70441,L,5,,

Quant Rev: 7 Quant Time: 910108 18:09
 Injected at: 910108 17:28
 Dilution Factor: 1.00000

ID File: ID0308::SS
 Title: PP/VOA, 1F8, XVOA13, XVOA9
 Last Calibration: 910108 16:09

| Compound | R.T. | Scan# | Area | Conc | Units | q |
|----------------------------------|-------|-------|--------|----------|-------|-----|
| 1) *Bromochloromethane | 11.31 | 258 | 31640 | 250.00 | NG | 94 |
| 2) Methyl chloride | 2.16 | 22 | 112098 | 1052.73 | NG | 9 |
| 3) Methyl bromide | 3.29 | 51 | 40422 | 293.21 | NG | 97 |
| 4) Dichlorodifluoromethane | 4.10 | 72 | 95559 | 717.44 | NG | 95 |
| 5) Vinyl chloride | 4.22 | 75 | 77293 | 382.88 | NG | 98 |
| 6) Chloroethane | 5.42 | 106 | 71591 | 560.96 | NG | 98 |
| 7) Methylene chloride | 7.86 | 169 | 114490 | 454.78 | NG | 98 |
| 8) Acrolein | 8.75 | 192 | 240602 | 29036.31 | NG | 95 |
| 9) Acetone | 8.83 | 194 | 59358 | 310.45 | NG | 90 |
| 10) Acrylonitrile | 9.49 | 211 | 59999 | 1263.68 | NG | 92 |
| 11) Carbon disulfide | 9.49 | 211 | 392266 | 879.64 | NG | 99 |
| 12) Trichlorofluoromethane | 10.11 | 227 | 285896 | 1142.85 | NG | 95 |
| 13) 1,1-Dichloroethylene | 10.89 | 247 | 118849 | 412.64 | NG | 92 |
| 14) 1,1-Dichloroethane | 12.24 | 282 | 233209 | 647.79 | NG | 91 |
| 15) Tetrahydrofuran | 12.32 | 284 | 22928 | 27427.99 | NG | 100 |
| 15) Tetrahydrofuran | 12.98 | 301 | 16855 | 20163.07 | NG | 100 |
| 16) 1,2-Trans-dichloroethylene | 13.02 | 302 | 119583 | 472.28 | NG | 92 |
| 17) Chloroform | 13.56 | 316 | 306396 | 667.08 | NG | 97 |
| 18) 1,2-Dichloroethane-D4 (SURR) | 14.26 | 334 | 89088 | 275.86 | NG | 94 |
| 19) 1,2-Dichloroethane | 14.34 | 336 | 269639 | 651.20 | NG | 97 |
| 20) Methyl tertiary butyl ether | 15.50 | 366 | 257915 | 16074.45 | NG | 99 |
| 21) *1,4-Difluorobenzene | 22.02 | 534 | 135350 | 250.00 | NG | 95 |
| 22) Methyl ethyl ketone | 14.34 | 336 | 11367 | 111.34 | NG | 99 |
| 23) 1,1,1-Trichloroethane | 15.69 | 371 | 252694 | 598.74 | NG | 94 |
| 24) Carbon tetrachloride | 15.69 | 371 | 30301 | 80.91 | NG | 99 |
| 24) Carbon tetrachloride | 16.08 | 381 | 208934 | 557.89 | NG | 94 |
| 25) Vinyl acetate | 16.32 | 387 | 283611 | 913.85 | NG | 96 |
| 26) Dichlorobromomethane | 16.59 | 394 | 242331 | 673.92 | NG | 98 |
| 27) 1,2-Dichloropropane | 18.02 | 431 | 141220 | 654.47 | NG | 95 |
| 28) cis-1,3-Dichloropropylene | 18.29 | 438 | 308632 | 1000.73 | NG | 92 |
| 29) Trichloroethylene | 18.88 | 453 | 169163 | 680.75 | NG | 94 |
| 30) Chlorodibromomethane | 19.42 | 467 | 195035 | 727.66 | NG | 95 |
| 31) bis(Chloromethyl)ether | 19.42 | 467 | 65707 | 2056.31 | NG | 100 |
| 32) Benzene | 19.42 | 467 | 393724 | 586.85 | NG | 91 |
| 33) 1,1,2-Trichloroethane | 19.57 | 471 | 113130 | 605.16 | NG | 88 |
| 34) trans-1,3-Dichloropropylene | 19.57 | 471 | 97502 | 302.14 | NG | 92 |
| 35) 2-Chloroethylvinyl ether | 20.70 | 500 | 84053 | 719.73 | NG | 100 |
| 36) Bromoform | 22.13 | 537 | 141673 | 923.04 | NG | 97 |
| 37) *Chlorobenzene-d5 | 26.92 | 660 | 106592 | 250.00 | NG | 69 |
| 38) Methyl-iso-butyl ketone | 22.72 | 552 | 144918 | 796.51 | NG | 94 |
| 39) 2-Hexanone | 24.27 | 592 | 143322 | 871.98 | NG | 89 |
| 40) 1,1,2,2-Tetrachloroethane | 24.46 | 597 | 190971 | 661.82 | NG | 96 |
| 41) Tetrachloroethylene | 24.58 | 600 | 160248 | 451.11 | NG | 98 |

QUANT REPORT

Page 2

Operator ID: KB6656
 Output File: ^D2522::AQ
 Data File: >D2522::U0
 Name: USTD150
 Misc: QC70441VS,QU70441,L,5,,

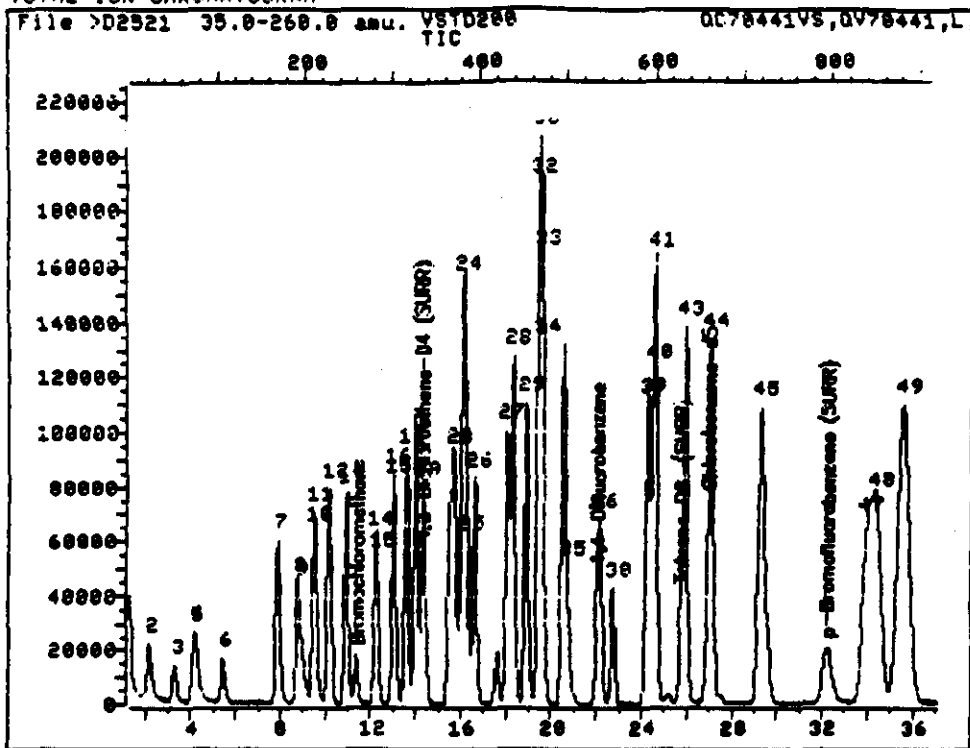
Quant Rev: 7 Quant Time: 910108 18:05
 Injected at: 910108 17:28
 Dilution Factor: 1.00000

ID File: 100308::SS
 Title: PP/UDA, IFB, XUDA13, XUDA9
 Last Calibration: 910108 16:09

| | Compound | R.T. | Scan# | Area | Conc | Units | q |
|-----|-----------------------------|-------|-------|--------|--------|-------|----|
| 42) | Toluene-D8 (SURR) | 25.74 | 630 | 135048 | 199.25 | NG | 96 |
| 43) | Toluene | 25.94 | 635 | 236631 | 289.97 | NG | 97 |
| 44) | Chlorobenzene | 27.04 | 663 | 317676 | 527.65 | NG | 95 |
| 45) | Ethylbenzene | 29.25 | 720 | 147464 | 131.24 | NG | 75 |
| 46) | p-Bromofluorobenzene (SURR) | 32.16 | 795 | 92684 | 212.97 | NG | 76 |
| 47) | Styrene | 33.94 | 841 | 301356 | 341.27 | NG | 88 |
| 48) | m-Xylene | 34.33 | 851 | 188423 | 173.33 | NG | 92 |
| 49) | o+p-Xylenes | 35.49 | 881 | 349134 | 168.30 | NG | 88 |

* Compound is ISTD

TOTAL ION CHROMATOGRAM



Data File: >D2521::U0
 Name: USTD200
 Misc: QC70441US,QU70441,L,5,,

Quant Output File: ^D2521::AQ

Id File: ID0308::SS
 Title: PP/VOA, IFB, XVQA13, XVQA9
 Last Calibration: 910108 16:09

Operator ID: KB6656
 Quant Time: 910108 17:21
 Injected at: 910108 16:43

QUANT REPORT

Operator ID: KB6656 Quant Rev: 7 Quant Time: 910108 17:21
 Output File: ^D2521::AQ Injected at: 910108 16:43
 Data File: >D2521::U0 Dilution Factor: 1.00000
 Name: UST0200
 Misc: QC70441US,QU70441,L,5,,

ID File: ID0308::SS
 Title: PP/VOA, IFB, XVOA13, XVOA9
 Last Calibration: 910108 16:09

| Compound | R.T. | Scan# | Area | Conc | Units | q |
|----------------------------------|-------|-------|--------|----------|-------|-----|
| 1) *Bromochloromethane | 11.39 | 260 | 30822 | 250.00 | NG | 99 |
| 2) Methyl chloride | 2.16 | 22 | 152504 | 1470.19 | NG | 96 |
| 3) Methyl bromide | 3.28 | 51 | 53751 | 400.25 | NG | 98 |
| 4) Dichlorodifluoromethane | 4.18 | 74 | 141691 | 1092.02 | NG | 96 |
| 5) Vinyl chloride | 4.21 | 75 | 117948 | 599.77 | NG | 96 |
| 6) Chloroethane | 5.42 | 106 | 98537 | 792.60 | NG | 95 |
| 7) Methylene chloride | 7.90 | 170 | 160825 | 655.79 | NG | 99 |
| 8) Acrolein | 8.75 | 192 | 267812 | 33177.82 | NG | 93 |
| 9) Acetone | 8.83 | 194 | 85569 | 459.42 | NG | 91 |
| 10) Acrylonitrile | 9.49 | 211 | 69956 | 1512.50 | NG | 91 |
| 11) Carbon disulfide | 9.53 | 212 | 548122 | 1261.76 | NG | 99 |
| 12) Trichlorofluoromethane | 10.19 | 229 | 423407 | 1737.46 | NG | 95 |
| 13) 1,1-Dichloroethylene | 10.92 | 248 | 161302 | 574.90 | NG | 92 |
| 14) 1,1-Dichloroethane | 12.24 | 282 | 321808 | 917.61 | NG | 96 |
| 15) Tetrahydrofuran | 12.32 | 284 | 29597 | 36345.54 | NG | 100 |
| 15) Tetrahydrofuran | 13.02 | 302 | 30519 | 37477.77 | NG | 100 |
| 16) 1,2-Trans-dichloroethylene | 13.06 | 303 | 163787 | 664.03 | NG | 90 |
| 17) Chloroform | 13.60 | 317 | 409260 | 914.69 | NG | 98 |
| 18) 1,2-Dichloroethane-D4 (SURR) | 14.30 | 335 | 89352 | 284.02 | NG | 99 |
| 19) 1,2-Dichloroethane | 14.38 | 337 | 353560 | 876.54 | NG | 97 |
| 21) *1,4-Difluorobenzene | 22.06 | 535 | 138548 | 250.00 | NG | 95 |
| 22) Methyl ethyl ketone | 14.38 | 337 | 16106 | 154.11 | NG | 97 |
| 23) 1,1,1-Trichloroethane | 15.73 | 372 | 339502 | 785.86 | NG | 92 |
| 24) Carbon tetrachloride | 15.73 | 372 | 40850 | 106.56 | NG | 98 |
| 24) Carbon tetrachloride | 16.12 | 382 | 276882 | 722.26 | NG | 95 |
| 25) Vinyl acetate | 16.31 | 387 | 382391 | 1203.70 | NG | 96 |
| 26) Dichlorobromomethane | 16.62 | 395 | 318313 | 864.80 | NG | 95 |
| 27) 1,2-Dichloropropane | 18.06 | 432 | 196832 | 891.14 | NG | 91 |
| 28) cis-1,3-Dichloropropylene | 18.33 | 439 | 412966 | 1308.12 | NG | 92 |
| 29) Trichloroethylene | 18.91 | 454 | 225448 | 886.31 | NG | 95 |
| 30) Chlorodibromomethane | 19.50 | 469 | 244821 | 892.32 | NG | 98 |
| 31) bis(Chloromethyl)ether | 19.50 | 469 | 84466 | 2582.36 | NG | 100 |
| 32) Benzene | 19.46 | 468 | 534994 | 779.00 | NG | 91 |
| 33) 1,1,2-Trichloroethane | 19.61 | 472 | 146477 | 765.45 | NG | 85 |
| 34) trans-1,3-Dichloropropylene | 19.65 | 473 | 127978 | 387.42 | NG | 90 |
| 35) 2-Chloroethylvinyl ether | 20.74 | 501 | 108549 | 908.02 | NG | 100 |
| 36) Bromoform | 22.17 | 538 | 182002 | 1158.42 | NG | 96 |
| 37) *Chlorobenzene-d5 | 26.95 | 661 | 110683 | 250.00 | NG | 67 |
| 38) Methyl-iso-butyl ketone | 22.75 | 553 | 198782 | 1052.17 | NG | 95 |
| 39) 2-Hexanone | 24.31 | 593 | 232606 | 1362.88 | NG | 87 |
| 40) 1,1,2,2-Tetrachloroethane | 24.50 | 598 | 246372 | 822.26 | NG | 95 |
| 41) Tetrachloroethylene | 24.62 | 601 | 212991 | 577.42 | NG | 98 |
| 42) Toluene-D8 (SURR) | 25.74 | 630 | 139421 | 198.10 | 228 | 96 |

QUANT REPORT

Operator ID: KB6656
 Output File: ^D2521::AQ
 Data File: >D2521::U0
 Name: VSTD200
 Misc: QC70441VS,QU70441,L,5,,

Quant Rev: 7 Quant Time: 910108 17:21
 Injected at: 910108 16:43
 Dilution Factor: 1.00000

ID File: ID0308::5S
 Title: PP/VOA, IFB, XVUA13, XVUA9
 Last Calibration: 910108 16:09

| | Compound | R.T. | Scan# | Area | Conc | Units | q |
|-----|-----------------------------|-------|-------|--------|--------|-------|----|
| 43) | Toluene | 25.93 | 635 | 333568 | 393.65 | NG | 97 |
| 44) | Chlorobenzene | 27.07 | 664 | 436473 | 698.18 | NG | 96 |
| 45) | Ethylbenzene | 29.32 | 722 | 204531 | 175.30 | NG | 78 |
| 46) | p-Bromofluorobenzene (SURR) | 32.23 | 797 | 97121 | 214.92 | NG | 76 |
| 47) | Styrene | 33.97 | 842 | 423776 | 462.17 | NG | 90 |
| 48) | m-Xylene | 34.40 | 853 | 264185 | 234.04 | NG | 91 |
| 49) | o+p-Xylenes | 35.56 | 883 | 492482 | 228.63 | NG | 87 |

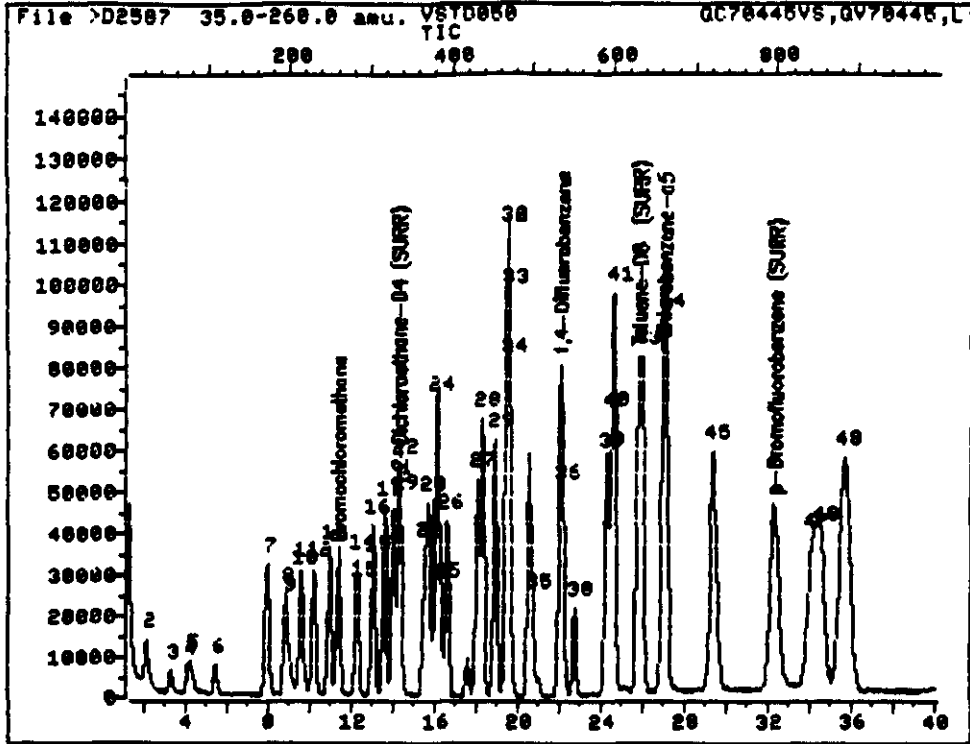
* Compound is ISTD

7A
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: ETC Corp. I Laboratory Contract:
 Lab Code: Case No.: SAS No.: SUB No.:
 Instrument ID: GC/MS D Calibration Date: 01/13/91 Time: 175
 Lab File ID: >D2587 Inst Calib. Dates(s): 01/08/91 01/08/91
 Matrix: (soil/water) WATER Level: (low/med) LOW Column: (pack/cap) PACI
 Min RRF50 for SPCC(*) = 0.300 (0.250 for Bromoform) Max %RSD for DLL(*) = 25.0

| COMPOUND | RRF | RRF50 | %D |
|----------------------------|-------|-------|-------|
| Chloromethane | 1.176 | 1.374 | 16.8# |
| Bromomethane | .456 | .400 | 12.3 |
| Vinyl Chloride | .943 | .708 | 25.0* |
| Chloroethane | .817 | .735 | 10.0 |
| Methylene Chloride | 1.471 | 1.485 | .9 |
| Acetone | .785 | .766 | 2.4 |
| Carbon Disulfide | 4.166 | 4.340 | 4.2 |
| 1,1-Dichloroethene | 1.283 | 1.273 | .8* |
| 1,1-Dichloroethane | 2.714 | 2.986 | 10.0# |
| 1,2-Dichloroethene (total) | 1.318 | 1.414 | 7.2 |
| Chloroform | 3.418 | 3.339 | 2.3* |
| 1,2-Dichloroethane | 3.049 | 2.808 | 7.9 |
| 2-Butanone | .030 | .031 | 2.3 |
| 1,1,1-Trichloroethane | .641 | .476 | 25.7 |
| Carbon Tetrachloride | .523 | .400 | 23.4 |
| Vinyl Acetate | .626 | .582 | 7.0 |
| Bromodichloromethane | .599 | .509 | 15.0 |
| 1,2-Dichloropropane | .346 | .316 | 8.5* |
| cis-1,3-Dichloropropene | .748 | .673 | 10.1 |
| Trichloroethene | .427 | .408 | 4.3 |
| Dibromochloromethane | .428 | .428 | 10.6 |
| 1,1,2-Trichloroethane | .280 | .269 | 4.1 |
| Benzene | .960 | .902 | 6.1 |
| trans-1,3-Dichloropropene | .240 | .222 | 7.4 |
| Bromoform | .330 | .289 | 12.6# |
| 4-Methyl-2-Pentanone | .458 | .381 | 16.8 |
| 2-Hexanone | .469 | .434 | 7.5 |
| Tetrachloroethene | .506 | .488 | 3.5 |
| 1,1,2,2-Tetrachloroethane | .580 | .521 | 10.2# |
| Toluene | .749 | .706 | 5.6* |
| Chlorobenzene | 1.005 | .930 | 7.5# |
| Ethylbenzene | .464 | .447 | 3.5* |
| Styrene | .950 | .881 | 7.3 |
| Xylene (total) | .553 | .521 | 5.9 |
| Toluene-d8 | 1.254 | 1.255 | .0 |
| Bromofluorobenzene | .822 | .778 | 10.7 |
| 1,2-Dichloroethane-d4 | 2.918 | 2.664 | 8.7 |

TOTAL ION CHROMATOGRAM



Date File: >D2587::U1 Quant Output File: ^D2587::AQ
Name: USTD050
Misc: QC70445US,QU70445,L:M4,5,,

Id File: ID0310::SS
Title: PP/VOA, IFB, XVDA13, XVDA9
Last Calibration: 910113 13:03

Operator ID: KB6656
Quant Time: 910113 18:38
Injected at: 910113 17:57

QUANT REPORT

Operator ID: KB6656
 Output File: ^D2587::AQ
 Data File: >D2587::U1
 Name: USTD050
 Misc: QC70445US, QV70445, L:M4,5,,

Quant Rev: 7 Quant Time: 910113 18:38
 Injected at: 910113 17:57
 Dilution Factor: 1.00000

ID File: ID0310::SS
 Title: PP/VOA, IFB, XVDA13, XVDA9
 Last Calibration: 910113 13:03

| Compound | R.T. | Scan# | Area | Conc | Units | q |
|----------------------------------|-------|-------|--------|---------|-------|-----|
| 1) *Bromochloromethane | 11.40 | 260 | 56050 | 250.00 | NG | 96 |
| 2) Methyl chloride | 2.17 | 22 | 77033 | 251.21 | NG | 98 |
| 3) Methyl bromide | 3.33 | 52 | 22436 | 189.41 | NG | 93 |
| 4) Dichlorodifluoromethane | 4.14 | 73 | 48481 | 176.75 | NG | 97 |
| 5) Vinyl chloride | 4.30 | 77 | 39657 | 162.45 | NG | 93 |
| 6) Chloroethane | 5.50 | 108 | 41185 | 226.00 | NG | 96 |
| 7) Methylene chloride | 7.98 | 172 | 83245 | 223.07 | NG | 94 |
| 8) Acrolein | 8.84 | 194 | 141382 | 4145.59 | NG | 92 |
| 9) Acetone | 8.91 | 196 | 42921 | 256.76 | NG | 95 |
| 10) Acrylonitrile | 9.57 | 213 | 37443 | 398.92 | NG | 94 |
| 11) Carbon disulfide | 9.61 | 214 | 243232 | 242.00 | NG | 94 |
| 12) Trichlorofluoromethane | 10.23 | 230 | 147591 | 234.84 | NG | 93 |
| 13) 1,1-Dichloroethylene | 10.97 | 249 | 71330 | 239.63 | NG | 91 |
| 14) 1,1-Dichloroethane | 12.29 | 283 | 167354 | 246.73 | NG | 96 |
| 15) Tetrahydrofuran | 12.36 | 285 | 19941 | 229.50 | NG | 100 |
| 15) Tetrahydrofuran | 13.02 | 302 | 17435 | 200.66 | NG | 100 |
| 16) 1,2-Trans-dichloroethylene | 13.10 | 304 | 79232 | 201.22 | NG | 86 |
| 17) Chloroform | 13.64 | 318 | 187145 | 242.42 | NG | 95 |
| 18) 1,2-Dichloroethane-D4 (SURR) | 14.30 | 335 | 149329 | 244.01 | NG | 91 |
| 19) 1,2-Dichloroethane | 14.42 | 338 | 157405 | 248.02 | NG | 97 |
| 20) Methyl tertiary butyl ether | 15.55 | 367 | 143555 | 207.41 | NG | 90 |
| 21) *1,4-Difluorobenzene | 22.10 | 536 | 321702 | 250.00 | NG | 98 |
| 22) Methyl ethyl ketone | 14.38 | 337 | 9924 | 230.37 | NG | 97 |
| 23) 1,1,1-Trichloroethane | 15.74 | 372 | 153124 | 217.78 | NG | 92 |
| 24) Carbon tetrachloride | 15.74 | 372 | 19652 | 35.47 | NG | 95 |
| 24) Carbon tetrachloride | 16.13 | 382 | 128802 | 232.50 | NG | 95 |
| 25) Vinyl acetate | 16.36 | 388 | 187078 | 264.50 | NG | 95 |
| 26) Dichlorobromomethane | 16.63 | 395 | 163750 | 257.08 | NG | 96 |
| 27) 1,2-Dichloropropane | 18.11 | 433 | 101727 | 262.02 | NG | 95 |
| 28) cis-1,3-Dichloropropylene | 18.34 | 439 | 216355 | 260.74 | NG | 95 |
| 29) Trichloroethylene | 18.96 | 455 | 131281 | 248.84 | NG | 92 |
| 30) Chlorodibromomethane | 19.50 | 469 | 137582 | 272.24 | NG | 99 |
| 31) bis(Chloromethyl)ether | 19.50 | 469 | 43515 | 258.20 | NG | 100 |
| 32) Benzene | 19.50 | 469 | 290188 | 260.52 | NG | 93 |
| 33) 1,1,2-Trichloroethane | 19.62 | 472 | 86475 | 266.64 | NG | 87 |
| 34) trans-1,3-Dichloropropylene | 19.66 | 473 | 71440 | 245.91 | NG | 92 |
| 35) 2-Chloroethylvinyl ether | 20.78 | 502 | 56229 | 250.85 | NG | 100 |
| 36) Bromoform | 22.22 | 539 | 92852 | 281.10 | NG | 95 |
| 37) *Chlorobenzene-d5 | 27.00 | 662 | 263014 | 250.00 | NG | 77 |
| 38) Methyl-iso-butyl ketone | 22.80 | 554 | 100148 | 258.51 | NG | 94 |
| 39) 2-Hexanone | 24.35 | 594 | 114056 | 259.67 | NG | 92 |
| 40) 1,1,2,2-Tetrachloroethane | 24.54 | 599 | 137126 | 262.35 | NG | 95 |
| 41) Tetrachloroethylene | 24.66 | 602 | 128407 | 245.72 | NG | 98 |

QUANT REPORT

Page 2

Operator ID: KB6656
 Output File: ^D2587::AQ
 Data File: >D2587::U1
 Name: USTD050
 Misc: QC70445VS,QU70445,L:M4,5,,

Quant Rev: 7 Quant Time: 910113 18:38
 Injected at: 910113 17:57
 Dilution Factor: 1.00000

ID File: ID0310::SS
 Title: PP/VOA, IFB, XVOA13, XVOA9
 Last Calibration: 910113 13:03

| | Compound | R.T. | Scan# | Area | Conc | Units | q |
|-----|-----------------------------|-------|-------|--------|--------|-------|----|
| 42) | Toluene-D8 (SURR) | 25.83 | 632 | 329960 | 260.05 | NG | 93 |
| 43) | Toluene | 25.98 | 636 | 185752 | 252.74 | NG | 96 |
| 44) | Chlorobenzene | 27.15 | 666 | 244579 | 257.83 | NG | 96 |
| 45) | Ethylbenzene | 29.40 | 724 | 117656 | 255.99 | NG | 80 |
| 46) | p-Bromofluorobenzene (SURR) | 32.31 | 799 | 204719 | 242.04 | NG | 82 |
| 47) | Styrene | 34.14 | 846 | 231642 | 257.66 | NG | 92 |
| 48) | m-Xylene | 34.56 | 857 | 148716 | 254.32 | NG | 95 |
| 48) | m-Xylene | 35.69 | 886 | 265823 | 454.59 | NG | 94 |
| 49) | o+p-Xylenes | 35.69 | 886 | 273828 | 529.39 | NG | 90 |

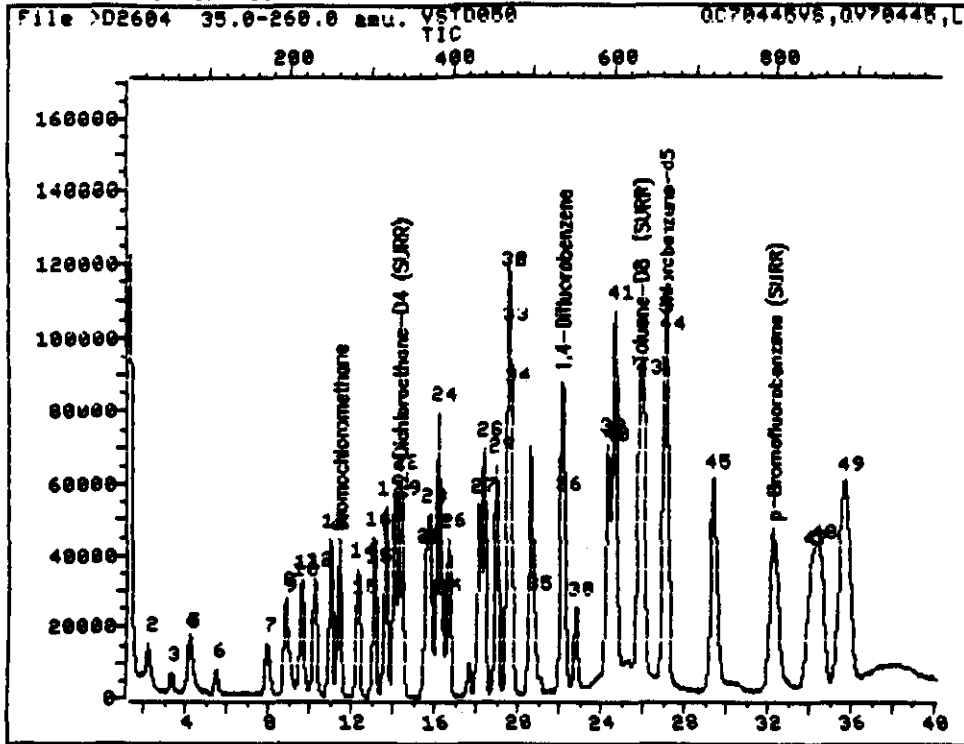
* Compound is ISTD

7A
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: ETC Corp. Laboratory Contract:
 Lab Code: Case No.: SAS No.: SUG No.:
 Instrument ID: GC/MS D Calibration Date: 01/14/91 Time: 1021
 Lab File ID: >D2604 Init Calib. Dates(s): 01/08/91 01/08/91
 Matrix: (soil/water) WATER Level: (low/med) LOW Column: (pack/cap) PAC
 Min RRF50 for SPCC(#) = 0.300 (0.250 for Bromoform) Max %RSD for CCL(*) = 25.

| COMPOUND | RRF | RRF50 | %D |
|-----------------------------|-------|-------|-------|
| Chloromethane | 1.176 | 1.020 | 13.3# |
| Bromomethane | .456 | .301 | 34.1 |
| Vinyl Chloride | .943 | .934 | 1.0* |
| Chloroethane | .817 | .556 | 32.0 |
| Methylene Chloride | 1.471 | .462 | 68.6 |
| Acetone | .785 | .664 | 15.4 |
| Carbon Disulfide | 4.166 | 3.225 | 22.6 |
| 1,1-Dichloroethene | 1.283 | 1.146 | 10.7* |
| 1,1-Dichloroethane | 2.714 | 2.333 | 14.1# |
| 1,2-Dichloroethene (total) | 1.318 | 1.174 | 10.9 |
| Chloroform | 3.418 | 2.927 | 14.4* |
| 1,2-Dichloroethane | 3.049 | 2.397 | 21.4 |
| 2-Butanone | .030 | .033 | 9.7 |
| 1,1,1-Trichloroethane | .641 | .521 | 18.7 |
| Carbon Tetrachloride | .523 | .426 | 18.6 |
| Vinyl Acetate | .626 | .543 | 13.2 |
| Bromodichloromethane | .599 | .507 | 15.3 |
| 1,2-Dichloropropane | .346 | .315 | 8.8* |
| cis-1,3-Dichloropropene | .748 | .671 | 10.3 |
| Trichloroethene | .427 | .410 | 3.9 |
| Dibromochloromethane | .478 | .424 | 11.5 |
| 1,1,1,2-Trichloroethane | .280 | .261 | 7.0 |
| Benzene | .960 | .898 | 6.4 |
| trans-1,3-Dichloropropene | .240 | .215 | 10.3 |
| Bromoform | .350 | .289 | 12.3# |
| 4-Methyl-2-Pentanone | .458 | .367 | 19.8 |
| 2-Hexanone | .469 | .420 | 10.5 |
| Tetrachloroethene | .506 | .479 | 5.3 |
| 1,1,1,2,2-Tetrachloroethane | .580 | .530 | 8.7# |
| Toluene | .749 | .696 | 7.0* |
| Chlorobenzene | 1.005 | .912 | 9.2# |
| Ethylbenzene | .464 | .433 | 6.5* |
| Styrene | .950 | .858 | 9.7 |
| Xylene (total) | .553 | .515 | 6.9 |
| Toluene-d8 | 1.254 | 1.234 | 1.6 |
| Bromofluorobenzene | .872 | .775 | 11.1 |
| 1,2-Dichloroethane-d4 | 2.918 | 2.331 | 20.1 |

TOTAL ION CHROMATOGRAM



Data File: >D2604::U1

Quant Output File: ^D2604::AQ

Name: USTD050

Misc: QC70445US,QU70445,L:M4,5,,

Id File: ID0310::SS

Title: PP/VOA, IFB, XVOA13, XVOA9

Last Calibration: 910113 18:53

Operator ID: KB6656

Quant Time: 910114 11:02

Injected at: 910114 10:21

QUANT REPORT

Page 1

Operator ID: KB6656
 Output File: ^D2604::AQ
 Data File: >D2604::U1
 Name: USTD050
 Misc: QC70445US,QU70445,L:M4,5,,

Quant Rev: 7 Quant Time: 910114 11:02
 Injected at: 910114 10:21
 Dilution Factor: 1.00000

ID File: ID0310::SS
 Title: PP/VOA, 1FB, XVOA13, XVOA9
 Last Calibration: 910113 18:53

| Compound | R.T. | Scan# | Area | Conc | Units | q |
|----------------------------------|-------|-------|--------|---------|-------|-----|
| 1) *Bromochloromethane | 11.41 | 261 | 78044 | 250.00 | NG | 94 |
| 2) Methyl chloride | 2.18 | 23 | 79605 | 185.54 | NG | 97 |
| 3) Methyl bromide | 3.30 | 52 | 23460 | 187.74 | NG | 97 |
| 4) Dichlorodifluoromethane | 4.15 | 74 | 83030 | 307.50 | NG | 97 |
| 5) Vinyl chloride | 4.23 | 76 | 72879 | 329.96 | NG | 93 |
| 6) Chloroethane | 5.47 | 108 | 43354 | 189.00 | NG | 94 |
| 7) Methylene chloride | 7.92 | 171 | 36047 | 77.75 | NG | 94 |
| 8) Acrolein | 8.81 | 194 | 154286 | 3134.93 | NG | 91 |
| 9) Acetone | 8.85 | 195 | 51835 | 216.84 | NG | 96 |
| 10) Acrylonitrile | 9.55 | 213 | 40720 | 312.42 | NG | 95 |
| 11) Carbon disulfide | 9.58 | 214 | 251729 | 185.82 | NG | 94 |
| 12) Trichlorofluoromethane | 10.21 | 230 | 160584 | 195.35 | NG | 94 |
| 13) 1,1-Dichloroethylene | 10.98 | 250 | 89420 | 225.08 | NG | 93 |
| 14) 1,1-Dichloroethane | 12.30 | 284 | 182038 | 195.30 | NG | 97 |
| 15) Tetrahydrofuran | 12.38 | 286 | 15654 | 140.95 | NG | 100 |
| 15) Tetrahydrofuran | 13.04 | 303 | 11422 | 102.84 | NG | 100 |
| 16) 1,2-Trans-dichloroethylene | 13.08 | 304 | 91625 | 207.63 | NG | 97 |
| 17) Chloroform | 13.66 | 319 | 228408 | 219.13 | NG | 96 |
| 18) 1,2-Dichloroethane-D4 (SURR) | 14.32 | 336 | 181922 | 218.73 | NG | 95 |
| 19) 1,2-Dichloroethane | 14.43 | 339 | 187060 | 213.37 | NG | 98 |
| 20) Methyl tertiary butyl ether | 15.56 | 368 | 175489 | 219.49 | NG | 98 |
| 21) *1,4-Difluorobenzene | 22.11 | 537 | 337312 | 250.00 | NG | 94 |
| 22) Methyl ethyl ketone | 14.39 | 338 | 11160 | 268.13 | NG | 93 |
| 23) 1,1,1-Trichloroethane | 15.75 | 373 | 175762 | 273.68 | NG | 91 |
| 24) Carbon tetrachloride | 15.75 | 373 | 22358 | 41.39 | NG | 98 |
| 24) Carbon tetrachloride | 16.18 | 384 | 143621 | 265.86 | NG | 94 |
| 25) Vinyl acetate | 16.37 | 389 | 183135 | 233.41 | NG | 98 |
| 26) Dichlorobromomethane | 16.68 | 397 | 171178 | 249.25 | NG | 96 |
| 27) 1,2-Dichloropropane | 18.12 | 434 | 106241 | 249.01 | NG | 94 |
| 28) cis-1,3-Dichloropropylene | 18.35 | 440 | 226285 | 249.37 | NG | 96 |
| 29) Trichloroethylene | 18.97 | 456 | 138229 | 251.05 | NG | 93 |
| 30) Chlorodibromomethane | 19.51 | 470 | 142891 | 247.63 | NG | 94 |
| 31) bis(Chloromethyl)ether | 19.51 | 470 | 44112 | 241.70 | NG | 100 |
| 32) Benzene | 19.51 | 470 | 303032 | 248.98 | NG | 94 |
| 33) 1,1,2-Trichloroethane | 19.63 | 473 | 87961 | 242.53 | NG | 88 |
| 34) trans-1,3-Dichloropropylene | 19.67 | 474 | 72554 | 242.15 | NG | 95 |
| 35) 2-Chloroethylvinyl ether | 20.80 | 503 | 59590 | 252.68 | NG | 100 |
| 36) Bromoform | 22.23 | 540 | 97649 | 250.75 | NG | 92 |
| 37) *Chlorobenzene-d5 | 27.01 | 663 | 275420 | 250.00 | NG | 78 |
| 38) Methyl-iso-butyl ketone | 22.77 | 554 | 101017 | 240.81 | NG | 96 |
| 39) 2-Hexanone | 24.33 | 594 | 115542 | 241.85 | NG | 94 |
| 40) 1,1,2,2-Tetrachloroethane | 24.52 | 599 | 145928 | 254.06 | NG | 94 |
| 41) Tetrachloroethylene | 24.64 | 602 | 131839 | 245.12 | NG | 98 |

QUANT REPORT

Page 2

Operator ID: KB6656
 Output File: ^D2604::AQ
 Data File: >D2604::U1
 Name: USTD050
 Misc: QC70445US,QU70445,L:M4,5,,

Quant Rev: 7 Quant Time: 910114 11:02
 Injected at: 910114 10:21
 Dilution Factor: 1.00000

ID File: ID0310::SS
 Title: PP/VOA, IFB, XUDA13, XUDA9
 Last Calibration: 910113 18:53

| | Compound | R.T. | Scan# | Area | Conc | Units | q |
|-----|-----------------------------|-------|-------|--------|--------|-------|----|
| 42) | Toluene-DB (SURR) | 25.80 | 632 | 339940 | 245.96 | NG | 94 |
| 43) | Toluene | 26.00 | 637 | 191661 | 246.33 | NG | 97 |
| 44) | Chlorobenzene | 27.13 | 666 | 251275 | 245.28 | NG | 95 |
| 45) | Ethylbenzene | 29.34 | 723 | 119350 | 242.18 | NG | 80 |
| 46) | p-Bromofluorobenzene (SURR) | 32.25 | 798 | 213424 | 248.89 | NG | 84 |
| 47) | Styrene | 34.08 | 845 | 236300 | 243.54 | NG | 91 |
| 48) | m-Xylene | 34.50 | 856 | 152035 | 244.07 | NG | 96 |
| 49) | o+p-Xylenes | 35.71 | 887 | 283729 | 494.74 | NG | 90 |

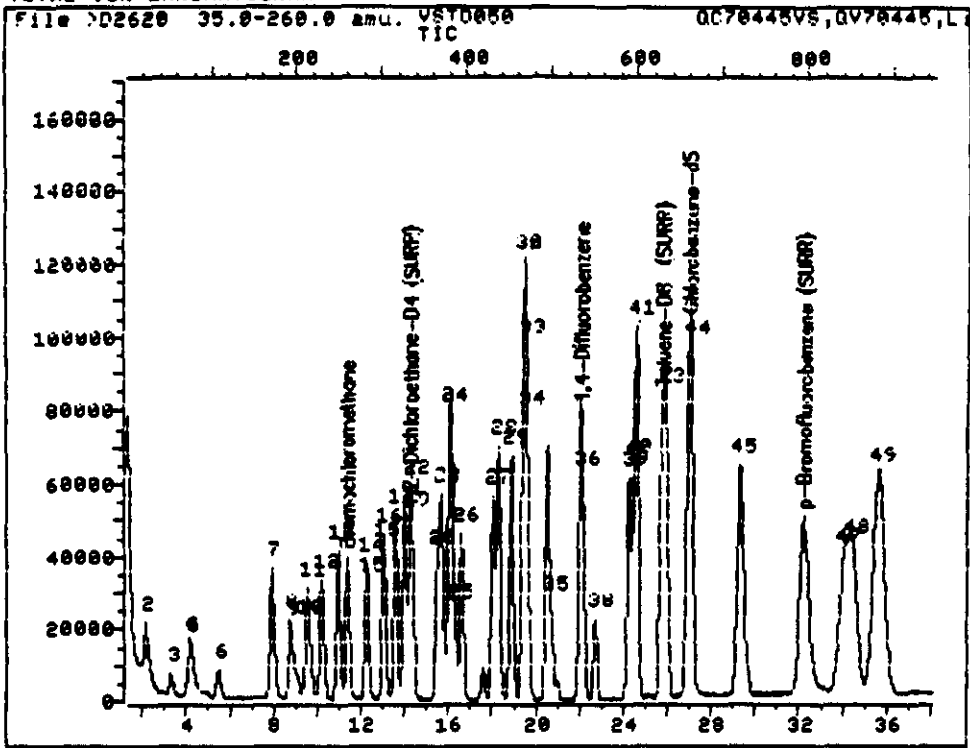
* Compound is ISTD

7A
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: ETC Corp. | Laboratory | Contract:
 Lab Code: | Case No.: | SAS No.: | SUB No.:
 Instrument ID: GC/MS D | Calibration Date: 01/15/91 | Time: 142:
 Lab File ID: >D2620 | Init Calib. Dates(s): 01/08/91 | 01/08/91
 Matrix: (soil/water) WATER | Level: (low/med) LOW | Column: (pack/cap) PAC:
 Min RRF50 for SPCC(#) = 0.300 (0.250 for Bromoform) Max %RSD for CCL(*) = 25.

| COMPOUND | RRF | IRRF50 | %D |
|----------------------------|--------|--------|-------|
| Chloromethane | 1.1761 | 1.4641 | 24.4# |
| Bromomethane | .4561 | .3921 | 14.21 |
| Vinyl Chloride | .9431 | 1.1031 | 16.9* |
| Chloroethane | .8171 | .8091 | .91 |
| Methylene Chloride | 1.4711 | 1.5601 | 6.01 |
| Acetone | .7851 | .7891 | .51 |
| Carbon Disulfide | 4.1661 | 4.5241 | 8.61 |
| 1,1-Dichloroethene | 1.2831 | 1.3701 | 6.8* |
| 1,1-Dichloroethane | 2.7141 | 3.1171 | 14.8# |
| 1,2-Dichloroethene (total) | 1.3181 | 1.5021 | 13.91 |
| Chloroform | 3.4181 | 3.5131 | 2.8* |
| 1,2-Dichloroethane | 3.0491 | 2.8561 | 6.31 |
| 2-Butanone | .0501 | .0291 | 2.51 |
| 1,1,1-Trichloroethane | .6411 | .5791 | 9.71 |
| Carbon Tetrachloride | .5231 | .4761 | 9.01 |
| Vinyl Acetate | .6261 | .5141 | 17.91 |
| Bromodichloromethane | .5991 | .5261 | 12.21 |
| 1,2-Dichloropropane | .3461 | .3261 | 5.7* |
| cis-1,3-Dichloropropene | .7481 | .6791 | 9.31 |
| Trichloroethene | .4271 | .4291 | .71 |
| Dibromochloromethane | .4781 | .4351 | 9.01 |
| 1,1,2-Trichloroethane | .2801 | .2651 | 5.41 |
| Benzene | .9601 | .9461 | 1.51 |
| trans-1,3-Dichloropropene | .2401 | .2211 | 8.01 |
| Bromoform | .3301 | .2911 | 11.9# |
| 4-Methyl-2-Pentanone | .4581 | .3541 | 22.61 |
| 2-Hexanone | .4691 | .3851 | 17.91 |
| Tetrachloroethene | .5061 | .5011 | 1.01 |
| 1,1,2,2-Tetrachloroethane | .5801 | .5091 | 12.3# |
| Toluene | .7491 | .7211 | 3.7* |
| Chlorobenzene | 1.0051 | .9471 | 5.8# |
| Ethylbenzene | .4641 | .4541 | 2.1* |
| Styrene | .9501 | .9001 | 5.21 |
| Xylene (total) | .5531 | .5381 | 2.81 |
| Toluene-d8 | 1.2541 | 1.2211 | 2.61 |
| Bromofluorobenzene | .8721 | .7891 | 9.51 |
| 1,2-Dichloroethene-d4 | 2.9181 | 2.6431 | 9.41 |

TOTAL ION CHROMATOGRAM



Data File: >D2620::U1 Quant Output File: ^D2620::AQ
 Name: VSTD050
 Misc: QC70445VS, QV70445, L: M4, 5, ,

Id File: ID0310::SS
 Title: PP/VOA, IFB, XVOA13, XVOA9
 Last Calibration: 910114 11:09

Operator ID: RK2225
 Quant Time: 910115 15:02
 Injected at: 910115 14:23

QUANT REPORT

Operator ID: RK2225
 Output File: ^D2620::AQ
 Data File: >D2620::U1
 Name: USTD050
 Misc: QC70445US,QU70445,L:M4,5,,

Quant Rev: 7 Quant Time: 910115 15:02
 Injected at: 910115 14:23
 Dilution Factor: 1.00000

ID File: ID0310::SS
 Title: PP/VOA, IFB, XVOA13, XVOA9
 Last Calibration: 910114 11:09

| | Compound | R.T. | Scan# | Area | Conc | Units | q |
|-----|------------------------------|-------|-------|--------|---------|-------|-----|
| 1) | *Bromochloromethane | 11.39 | 260 | 59156 | 250.00 | NG | 92 |
| 2) | Methyl chloride | 2.16 | 22 | 86593 | 358.78 | NG | 92 |
| 3) | Methyl bromide | 3.28 | 51 | 23168 | 325.72 | NG | 96 |
| 4) | Dichlorodifluoromethane | 4.14 | 73 | 76389 | 303.44 | NG | 91 |
| 5) | Vinyl chloride | 4.21 | 75 | 65250 | 295.30 | NG | 91 |
| 6) | Chloroethane | 5.46 | 107 | 47886 | 364.30 | NG | 92 |
| 7) | Methylene chloride | 7.94 | 171 | 92264 | 844.20 | NG | 98 |
| 8) | Acrolein | 8.75 | 192 | 121440 | 4153.71 | NG | 91 |
| 9) | Acetone | 8.83 | 194 | 46675 | 296.99 | NG | 92 |
| 10) | Acrylonitrile | 9.49 | 211 | 36565 | 473.87 | NG | 98 |
| 11) | Carbon disulfide | 9.61 | 214 | 267650 | 350.68 | NG | 94 |
| 12) | Trichlorofluoromethane | 10.23 | 230 | 163542 | 335.90 | NG | 92 |
| 13) | 1,1-Dichloroethylene | 10.96 | 249 | 81061 | 298.99 | NG | 89 |
| 14) | 1,1-Dichloroethane | 12.28 | 283 | 184369 | 334.05 | NG | 96 |
| 15) | Tetrahydrofuran | 12.32 | 284 | 19903 | 419.35 | NG | 100 |
| 15) | Tetrahydrofuran | 13.02 | 302 | 13824 | 291.27 | NG | 100 |
| 16) | 1,2-Trans-dichloroethylene | 13.06 | 303 | 88824 | 319.74 | NG | 89 |
| 17) | Chloroform | 13.60 | 317 | 207843 | 300.13 | NG | 96 |
| 18) | 1,2-Dichloroethane-D4 (SURR) | 14.26 | 334 | 156365 | 283.49 | NG | 92 |
| 19) | 1,2-Dichloroethane | 14.38 | 337 | 168946 | 297.88 | NG | 96 |
| 20) | Methyl tertiary butyl ether | 15.50 | 366 | 165849 | 311.70 | NG | 97 |
| 21) | *1,4-Difluorobenzene | 22.02 | 534 | 331306 | 250.00 | NG | 96 |
| 22) | Methyl ethyl ketone | 14.34 | 336 | 9740 | 222.15 | NG | 97 |
| 23) | 1,1,1-Trichloroethane | 15.69 | 371 | 191671 | 277.57 | NG | 96 |
| 24) | Carbon tetrachloride | 15.69 | 371 | 24296 | 43.06 | NG | 97 |
| 24) | Carbon tetrachloride | 16.08 | 381 | 157665 | 279.42 | NG | 92 |
| 25) | Vinyl acetate | 16.32 | 387 | 170251 | 236.63 | NG | 98 |
| 26) | Dichlorobromomethane | 16.63 | 395 | 174265 | 259.12 | NG | 92 |
| 27) | 1,2-Dichloropropane | 18.06 | 432 | 107983 | 258.71 | NG | 92 |
| 28) | cis-1,3-Dichloropropylene | 18.29 | 438 | 224914 | 252.99 | NG | 96 |
| 29) | Trichloroethylene | 18.91 | 454 | 142267 | 261.97 | NG | 91 |
| 30) | Chlorodibromomethane | 19.46 | 468 | 144239 | 256.93 | NG | 96 |
| 31) | bis(Chloromethyl)ether | 19.46 | 468 | 44623 | 257.48 | NG | 100 |
| 32) | Benzene | 19.46 | 468 | 313260 | 263.12 | NG | 94 |
| 33) | 1,1,2-Trichloroethane | 19.57 | 471 | 87851 | 254.21 | NG | 89 |
| 34) | trans-1,3-Dichloropropylene | 19.61 | 472 | 73105 | 256.47 | NG | 92 |
| 35) | 2-Chloroethylvinyl ether | 20.70 | 500 | 55490 | 237.02 | NG | 100 |
| 36) | Bromoform | 22.13 | 537 | 96400 | 251.28 | NG | 96 |
| 37) | *Chlorobenzene-d5 | 26.95 | 661 | 278115 | 250.00 | NG | 77 |
| 38) | Methyl-iso-butyl ketone | 22.72 | 552 | 98467 | 241.33 | NG | 92 |
| 39) | 2-Hexanone | 24.27 | 592 | 107075 | 229.43 | NG | 90 |
| 40) | 1,1,2,2-Tetrachloroethane | 24.46 | 597 | 141505 | 240.07 | NG | 94 |
| 41) | Tetrachloroethylene | 24.58 | 600 | 139211 | 261.42 | NG | 98 |

QUANT REPORT

Page 2

Operator ID: RK2225
 Output File: ^D2620::AQ
 Data File: >D2620::U1
 Name: USTD050
 Misc: QC70445US,QU70445,L:M4,5,,

Quant Rev: 7 Quant Time: 91U115 15:02
 Injected at: 91U115 14:20
 Dilution Factor: 1.00000

ID File: ID0310::SS
 Title: PP/VOA, IFB, XVOA13, XVOA9
 Last Calibration: 91U114 11:09

| | Compound | R. T. | Scan# | Area | Conc | Units | q |
|-----|------------------------------|-------|-------|--------|--------|-------|----|
| 42) | Toluene-D8 (SURRE) | 25.74 | 630 | 339612 | 247.34 | NG | 95 |
| 43) | Toluene | 25.74 | 635 | 200522 | 259.02 | NG | 9 |
| 44) | Chlorobenzene | 27.07 | 664 | 263324 | 259.45 | NG | 96 |
| 45) | Ethylbenzene | 29.28 | 721 | 126299 | 261.99 | NG | 74 |
| 46) | p-Bromofluorobenzene (SURRE) | 32.19 | 796 | 219426 | 254.54 | NG | 83 |
| 47) | Styrene | 34.01 | 843 | 250307 | 262.25 | NG | 95 |
| 48) | m-Xylene | 34.44 | 854 | 160488 | 261.34 | NG | 97 |
| 49) | o+p-Xylenes | 35.57 | 883 | 299152 | 522.07 | NG | 91 |

* Compound is ISTD

8A
VOLATILE INTERNAL STANDARD AREA SUMMARY

Lab Name: ETCNJ Contract:
 Lab Code: Case No.: SAS No.: SOG No.:
 Lab File ID (Standard): 2C2184 Data Analyzed: 01/18/91
 Instrument ID: GC/MS C Time Analyzed: 1943
 Matrix: (soil/water) WATER Level: (low/med) LOW Column: (pack/cap) PAUC

| | IS1 (BCM) | RT | IS2 (DFB) | RT | IS3 (CBZ) | RT |
|----------------|-----------|-------|-----------|-------|-----------|-------|
| | AREA # | | AREA # | | AREA # | |
| 12 HOUR STD | 61891 | 10.38 | 270337 | 21.09 | 163017 | 25.97 |
| UPPER LIMIT | 123782 | | 540674 | | 326034 | |
| LOWER LIMIT | 30946 | | 135168 | | 81508 | |
| EPA SAMPLE NO. | | | | | | |
| 01 UBLK02 | 47453 | 10.47 | 208802 | 21.13 | 121129 | 25.98 |
| 02 A5805 | 56629 | 10.49 | 246388 | 21.15 | 198269 | 26.01 |
| 03 A5599 | 57200 | 10.39 | 247875 | 21.12 | 204889 | 25.97 |
| 04 A5806 | 53497 | 10.41 | 231118 | 21.11 | 173798 | 25.95 |
| 05 A5591 | 53475 | 10.39 | 224989 | 21.09 | 191521 | 25.97 |
| 06 A5805 | 51631 | 10.43 | 229838 | 21.09 | 188846 | 25.94 |
| 07 A5806 | 55651 | 10.40 | 239082 | 21.06 | 196316 | 25.94 |
| 08 A5591 | 56077 | 10.38 | 232252 | 21.08 | 191053 | 25.93 |
| 09 | | | | | | |
| 10 | | | | | | |
| 11 | | | | | | |
| 12 | | | | | | |
| 13 | | | | | | |
| 14 | | | | | | |
| 15 | | | | | | |
| 16 | | | | | | |
| 17 | | | | | | |
| 18 | | | | | | |
| 19 | | | | | | |
| 20 | | | | | | |
| 21 | | | | | | |
| 22 | | | | | | |

IS1 (BCM) = Bromochloromethane
 IS2 (DFB) = 1,4-Difluorobenzene
 IS3 (CBZ) = Chlorobenzene-d5
 UPPER LIMIT = + 100% of internal standard area.
 LOWER LIMIT = - 50% of internal standard area.

Column used to flag internal standard area values with an asterisk.

84
VOLATILE INTERNAL STANDARD AREA SUMMARY

Lab Name: ETCNJ Contract:
 Lab Code: Case No.: SAS No.: EDG No.:
 Lab File ID (Standard): 402184 Date Analyzed: 01-11-91
 Instrument ID: GC/MS D Time Analyzed: 1043
 Matrix: soil/water WATER Level: low/med LOW Column: pack sept

| | IS1 (BCM) | IS2 (DFB) | IS3 (CBZ) |
|--|-----------|-----------|-----------|
| | AREA | RET | AREA |
| 12 HOUR STD | 51891 | 10.38 | 270337 |
| UPPER LIMIT | 123782 | | 540674 |
| LOWER LIMIT | 30946 | | 135168 |
| EPA SAMPLE NO. | | | |
| 01 UBLK01 ⁴ | 47453 | 10.47 | 208802 |
| 02 A5597 ⁴ <i>REP 1/21/91</i> | 53493 | 10.45 | 228455 |
| 03 | | | |
| 04 | | | |
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| 22 | | | |

IS1 (BCM) = Bromochloromethane UPPER LIMIT = - 100%
 IS2 (DFB) = 1,4-Difluorobenzene of internal standard area.
 IS3 (CBZ) = Chlorobenzene-d5 LOWER LIMIT = - 50%
 of internal standard area.

* Column used to flag internal standard area values with an asterisk.

8A
VOLATILE INTERNAL STANDARD AREA SUMMARY

Lab Name: ETCNJ Contract:
 Lab Code: Case No.: SAS No.: SDG No.:
 Lab File ID (Standard): >C2199 Date Analyzed: 01/19/91
 Instrument ID: GC/MS C Time Analyzed: 1434
 Matrix: (spil/water) WATER Level: (low/med) LOW Column: (pack/cap) pack

| | IS1 (BCM) | | IS2 (DFB) | | IS3 (CBZ) | |
|----------------|-----------|-------|-----------|-------|-----------|-------|
| | AREA # | RT | AREA # | RT | AREA # | RT |
| 12 HOUR STD | 54089 | 10.45 | 222969 | 21.08 | 173290 | 25.92 |
| UPPER LIMIT | 108178 | | 445938 | | 346580 | |
| LOWER LIMIT | 27044 | | 111484 | | 86645 | |
| EPA SAMPLE NO. | | | | | | |
| 01 UBLK03 | 42565 | 10.43 | 182628 | 21.09 | 133122 | 25.93 |
| 02 A5599MS | 50131 | 10.47 | 218075 | 21.15 | 148069 | 26.00 |
| 03 A5599MSD | 52788 | 10.42 | 220332 | 21.11 | 122464 | 25.96 |
| 04 | | | | | | |
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| 21 | | | | | | |
| 22 | | | | | | |

IS1 (BCM) = Bromochloromethane
 IS2 (DFB) = 1,4-Difluorobenzene
 IS3 (CBZ) = Chlorobenzene-d5
 UPPER LIMIT = + 100%
 of internal standard area.
 LOWER LIMIT = - 50%
 of internal standard area.

Column used to flag internal standard area values with an asterisk.

page 1 of 1

BH
VOLATILE INTERNAL STANDARD AREA SUMMARY

250

Lab Name: ETC Corp.

Contract:

Lab Code:

Case No.:

SAS No.:

SUG No.:

Lab File ID (Standard): >D2587

Data Analyzed: 01/13/91

Instrument ID: GC/MS D

Time Analyzed: 1757

Matrix: (soil/water) WATER Level: (low/med) LUW Column: (pack/cap) PACK

| | IS1 (BLM) | | IS2 (DFB) | | IS3 (LBZ) | |
|----------------|-----------|-------|-----------|-------|-----------|-------|
| | AREA # | RI | AREA # | RI | AREA # | RI |
| 12 HOUR STD | 56050 | 11.40 | 321702 | 22.10 | 263014 | 26.00 |
| UPPER LIMIT | 112100 | | 643404 | | 526028 | |
| LOWER LIMIT | 28025 | | 160851 | | 131507 | |
| EPA SAMPLE NO. | | | | | | |
| 01 UBLK01 | 75353 | 11.38 | 322537 | 22.12 | 270568 | 27.02 |
| 02 A5577 | 73226 | 11.40 | 322295 | 22.10 | 265149 | 26.01 |
| 03 A5585 | 73494 | 11.39 | 314967 | 22.09 | 268666 | 26.99 |
| 04 A5586 | 74263 | 11.36 | 313366 | 22.02 | 267541 | 26.92 |
| 05 A5587 | 72817 | 11.39 | 313833 | 22.09 | 264272 | 26.99 |
| 06 A5596 | 75943 | 11.39 | 328055 | 22.09 | 276965 | 27.03 |
| 07 A5571 | 70602 | 11.30 | 302797 | 22.04 | 255847 | 26.98 |
| 08 A5583 | 59277 | 11.30 | 313691 | 22.04 | 267929 | 26.94 |
| 09 A5584 | 59647 | 11.31 | 312724 | 22.01 | 265531 | 26.98 |
| 10 A5589 | 71171 | 11.30 | 311889 | 22.00 | 265808 | 26.94 |
| 11 A5593 | 59874 | 11.39 | 316452 | 22.05 | 273343 | 26.95 |
| 12 | | | | | | |
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| 21 | | | | | | |
| 22 | | | | | | |

IS1 (BLM) = Bromochloromethane
 IS2 (DFB) = 1,4-Difluorobenzene
 IS3 (LBZ) = Chlorobenzene-d5

UPPER LIMIT = + 100%
 of internal standard area.
 LOWER LIMIT = - 50%
 of internal standard area.

Column used to flag internal standard area values with an asterisk.

page + of +

8A
VOLATILE INTERNAL STANDARD AREA SUMMARY

Lab Name: ETC Corp.

Contract:

Lab Code:

Case No.:

SAS No.:

SUG No.:

Lab File ID (Standard): >D2604

Data Analyzed: 01-14-91

Instrument ID: GC/MS D

Time Analyzed: 1021

Matrix: (soil/water) WATER Level: (low/med) LUW Column: (pack/cap) PACK

| | IS1 (BCM) | | IS2 (DFB) | | IS3 (LBZ) | |
|----------------|-----------|-------|-----------|-------|-----------|-------|
| | AREA # | R | AREA # | R | AREA # | R |
| 12 HOUR STD | 78044 | 11.41 | 337312 | 22.11 | 275420 | 27.01 |
| UPPER LIMIT | 156088 | | 674624 | | 550840 | |
| LOWER LIMIT | 39022 | | 168656 | | 137710 | |
| EPA SAMPLE NO. | | | | | | |
| 01 UBLK02 | 78961 | 11.56 | 348767 | 22.10 | 294018 | 27.00 |
| 02 A5578 | 74874 | 11.34 | 333550 | 22.04 | 286999 | 26.98 |
| 03 A5579 | 77870 | 11.56 | 345684 | 22.10 | 296171 | 27.00 |
| 04 A5590 | 61081 | 11.40 | 341741 | 22.10 | 292868 | 27.00 |
| 05 A5568 | 49381 | 11.41 | 256192 | 22.11 | 226055 | 27.01 |
| 06 A5592 | 63078 | 11.42 | 341147 | 22.08 | 293282 | 27.01 |
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IS1 (BCM) = Bromochloromethane
 IS2 (DFB) = 1,4-Difluorobenzene
 IS3 (LBZ) = Chlorobenzene-d5

UPPER LIMIT = + 100%
 of internal standard area.
 LOWER LIMIT = - 50%
 of internal standard area.

* Column used to flag internal standard area values with an asterisk.

page + of +

3A
VOLATILE INTERNAL STANDARD AREA SUMMARY

Lab Name: ETC Corp.

Contract:

Lab Code:

Case No.:

SAS No.:

SUB No.:

Lab File ID (Standard): >D2620

Date Analyzed: 01/15/91

Instrument ID: GC/MS D

Time Analyzed: 1423

Matrix: (soil/water) WATER Level: (low/med) LOW Column: (pack-cap) PACIS

| | IS1 (BCM) | | IS2 (DFB) | | IS3 (LBZ) | |
|----------------|-----------|-------|-----------|-------|-----------|-------|
| | AREA # | Rt | AREA # | Rt | AREA # | Rt |
| 12 HOUR STD | 59156 | 11.39 | 331306 | 22.02 | 278119 | 26.95 |
| UPPER LIMIT | 118312 | | 662612 | | 556230 | |
| LOWER LIMIT | 29578 | | 165653 | | 139057 | |
| EPA SAMPLE NO. | | | | | | |
| 01 UBLK03 | 80556 | 11.35 | 347519 | 22.05 | 302151 | 26.98 |
| 02 A5577 | 59801 | 11.38 | 341715 | 22.04 | 292708 | 26.94 |
| 03 A5572 | 57385 | 11.38 | 309985 | 22.05 | 278920 | 26.94 |
| 04 A5572MS | 66944 | 11.40 | 326441 | 22.07 | 314078 | 27.00 |
| 05 A5572MSD | 70226 | 11.39 | 414303 | 22.05 | 344088 | 26.98 |
| 06 A5568RE | 67455 | 11.39 | 367446 | 22.05 | 310923 | 26.98 |
| 07 A5588 | 82967 | 11.37 | 370337 | 22.07 | 318630 | 26.96 |
| 08 A5592RE | 65526 | 11.39 | 359706 | 22.09 | 316706 | 26.99 |
| 09 | | | | | | |
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| 21 | | | | | | |
| 22 | | | | | | |

IS1 (BCM) = Bromochloromethane
 IS2 (DFB) = 1,4-Difluorobenzene
 IS3 (LBZ) = Chlorobenzene-d5

UPPER LIMIT = + 100%
 of internal standard area.
 LOWER LIMIT = - 50%
 of internal standard area.

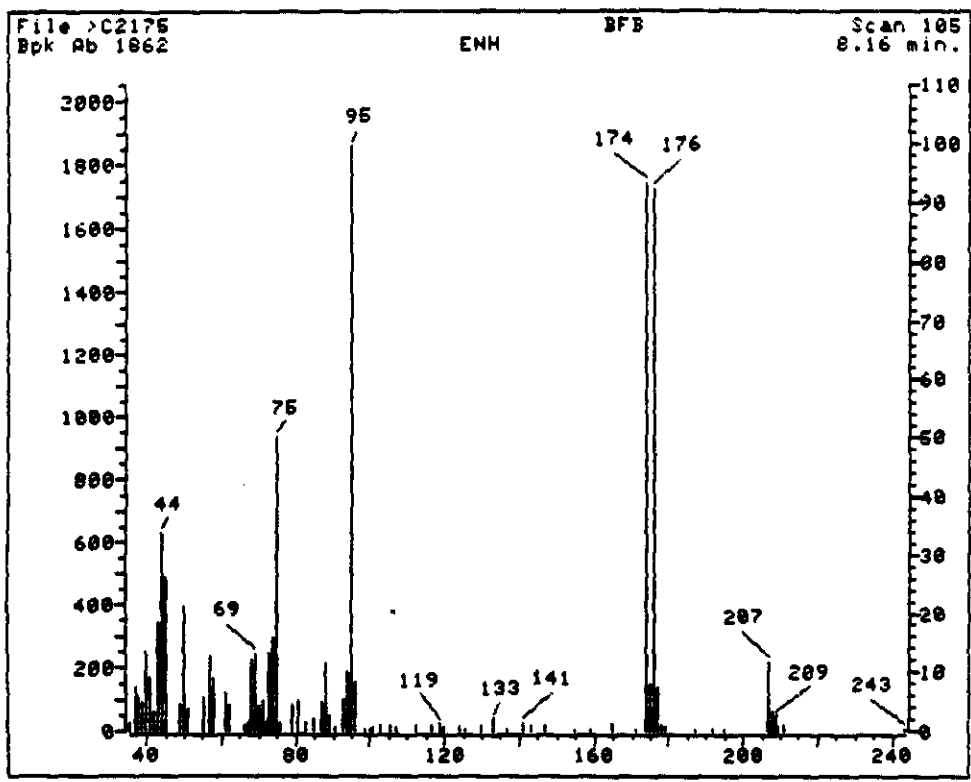
Column used to flag internal standard area values with an asterisk.

page + of +

ETC

RAW QC DATA

MS Data File: >C2175::U1
Name: Operator: KB6656 Date/Time: 1/17/91 12:07
Misc: BFB



MS Data File: >C2175::U1

Name: Operator: KB6656 Date/Time: 1/17/91 12:07
Misc: BFB

C2175
105 NRM ENH

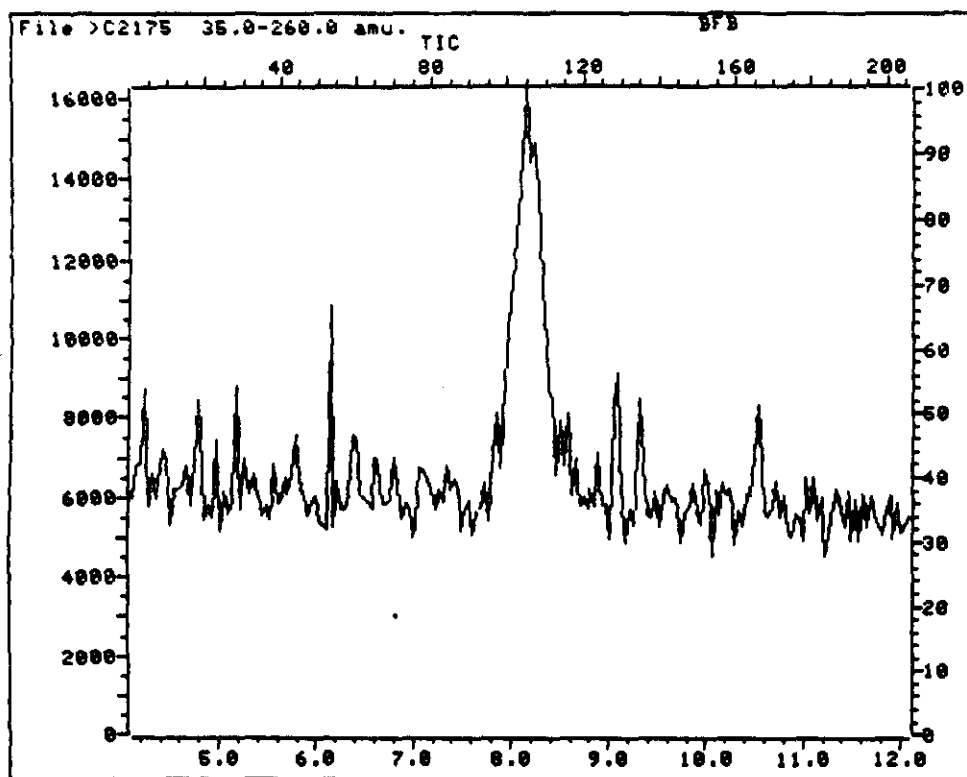
BFB

File: >C2175 Scan #: 105 Retn. time: 8.16

| m/z | Int. | m/z | Int. | m/z | Int. | m/z | Int. | m/z | Int. |
|-------|--------|-------|--------|--------|---------|--------|-------|--------|--------|
| 35.70 | .623 | 61.00 | 6.380 | 85.00 | 2.116 | 116.90 | .945 | 173.90 | 93.448 |
| 35.90 | 1.396 | 62.00 | 4.425 | 86.80 | 5.220 | 118.80 | 1.364 | 175.00 | 8.024 |
| 37.00 | 7.411 | 66.40 | 1.171 | 87.00 | 1.149 | 119.00 | 1.074 | 175.90 | 92.406 |
| 37.60 | .870 | 66.70 | .569 | 88.00 | 11.901 | 119.30 | .462 | 176.90 | 7.272 |
| 38.00 | 5.875 | 67.30 | 1.343 | 89.10 | 2.707 | 119.60 | .483 | 178.20 | .988 |
| 38.90 | 4.844 | 68.00 | 12.159 | 90.90 | .720 | 119.90 | .548 | 179.30 | .870 |
| 39.90 | 13.491 | 69.00 | 13.169 | 93.10 | 5.252 | 124.10 | .569 | 187.40 | .344 |
| 41.10 | 9.216 | 69.90 | 3.996 | 94.00 | 10.000 | 125.80 | .354 | 191.70 | .408 |
| 42.10 | 3.158 | 71.10 | 5.156 | 95.00 | 100.000 | 130.00 | 1.085 | 195.10 | .408 |
| 43.00 | 18.647 | 72.00 | 1.321 | 96.00 | 8.400 | 132.90 | 2.245 | 195.30 | .387 |
| 44.00 | 34.082 | 73.00 | 13.072 | 98.50 | .333 | 137.00 | .333 | 207.00 | 11.923 |
| 45.00 | 26.165 | 74.00 | 15.714 | 98.80 | .451 | 140.90 | 1.429 | 207.80 | 3.469 |
| 48.90 | 4.447 | 75.00 | 50.408 | 100.20 | .408 | 143.00 | .988 | 208.30 | .419 |
| 50.00 | 21.063 | 75.90 | 1.515 | 100.60 | .763 | 147.00 | .934 | 209.00 | 2.589 |
| 51.00 | 3.824 | 76.10 | .999 | 103.10 | 1.031 | 155.00 | .430 | 209.30 | .623 |
| 55.10 | 5.800 | 78.90 | 4.415 | 105.80 | 1.117 | 159.20 | .419 | 211.00 | .902 |
| 57.00 | 12.728 | 80.90 | 4.952 | 107.20 | .623 | 165.10 | 1.472 | 243.40 | .430 |
| 58.00 | 9.130 | 82.70 | 1.321 | 112.30 | 1.063 | 171.40 | .408 | | |

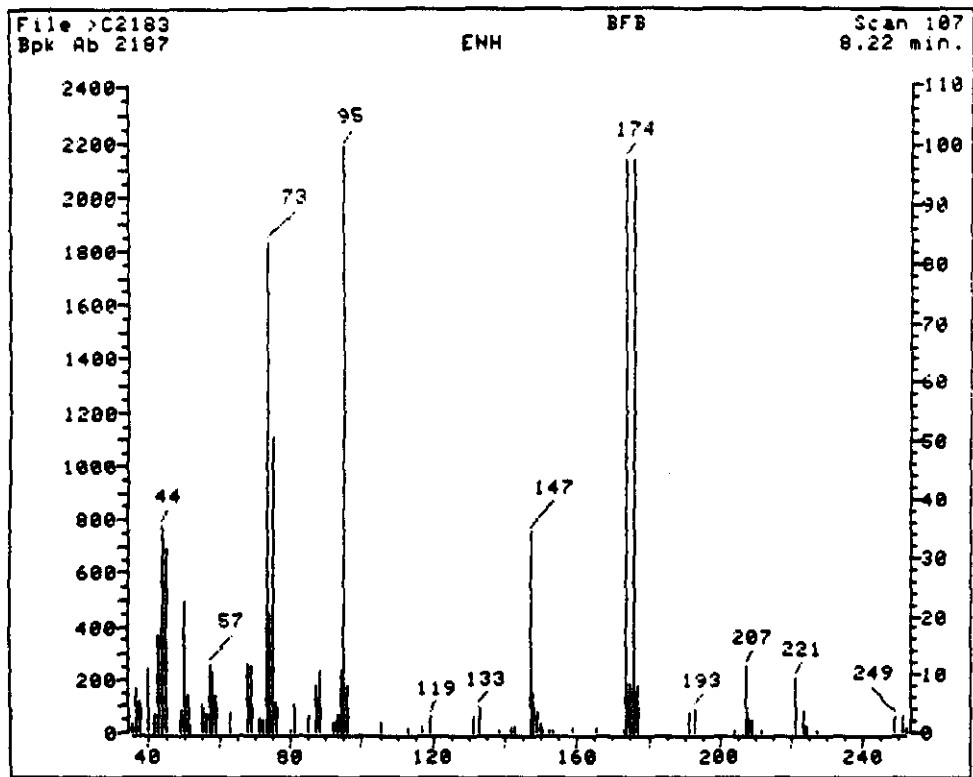
MS Data File: >C2175::U1

Name: Operator: KB6656 Date/Time: 1/17/91 12:07
Misc: BFB



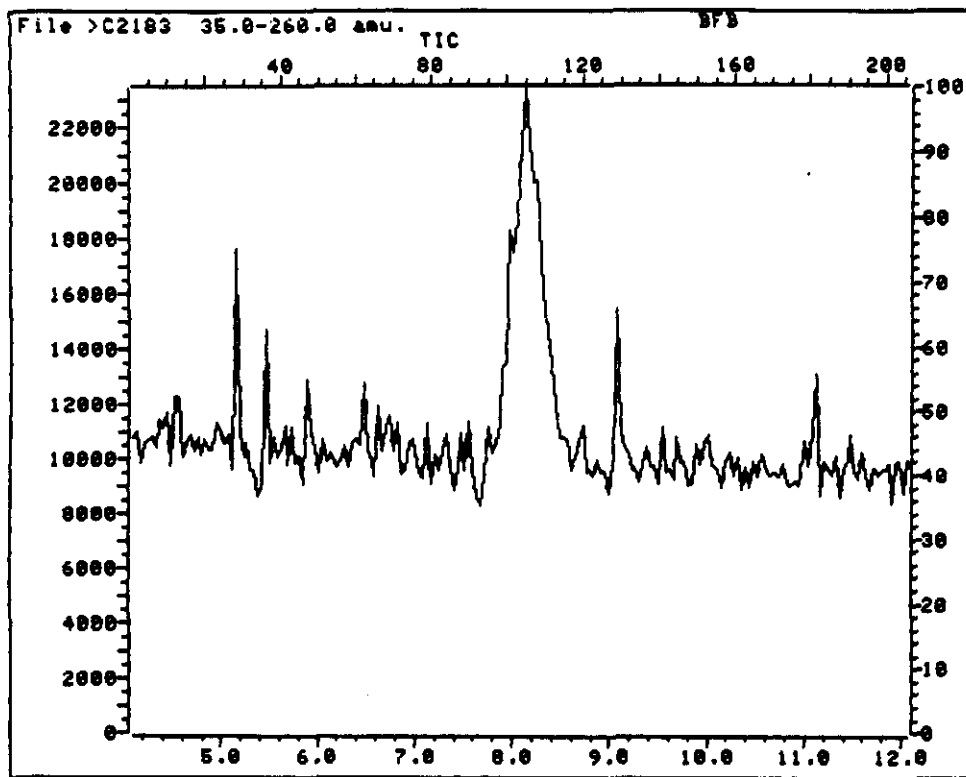
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Name: Operator: KB6656 Date/Time: 1/18/91 10:16
Misc: BFB



MS Data File: >C2183::U1

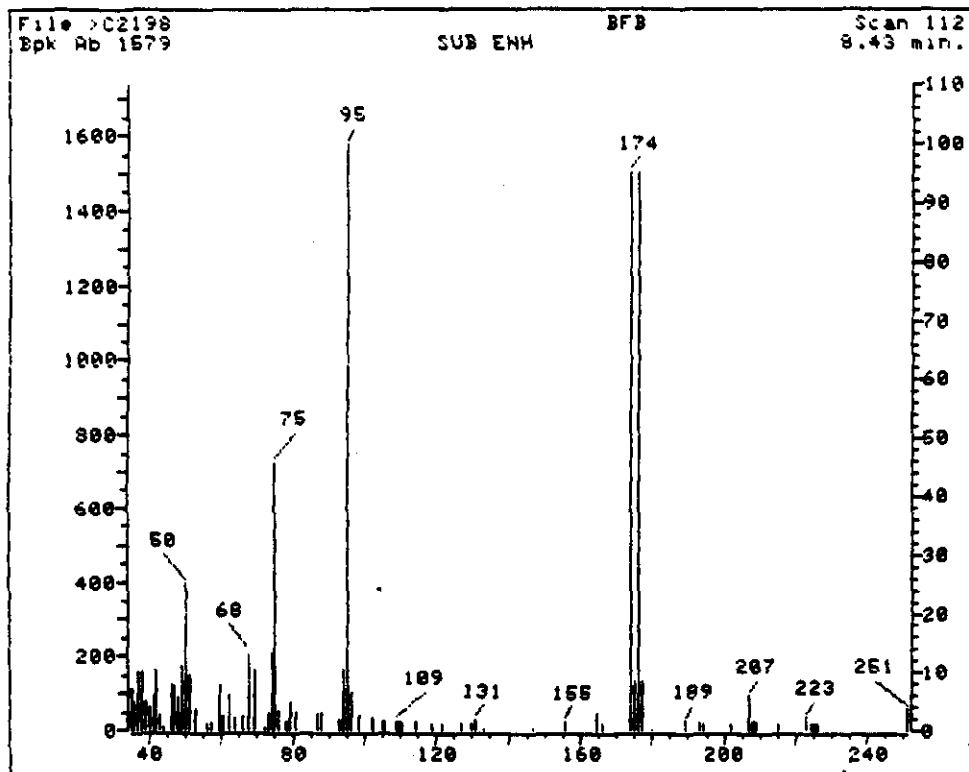
Name: Operator: KB6656 Date/Time: 1/18/91 10:16
Misc: BFB



You're already on LU: 86

MS Data File: >C2198::U1

Name: Operator: KB6656 Date/Time: 1/19/91 13:58
Misc: BFB



You're already on LU: 86

MS Data File: >C2198::U1

Name: Operator: KB6656 Date/Time: 1/19/91 13:58
Misc: BFB

You're already on LU: 86

>C2198 BFB
112 SUB NRM ENH

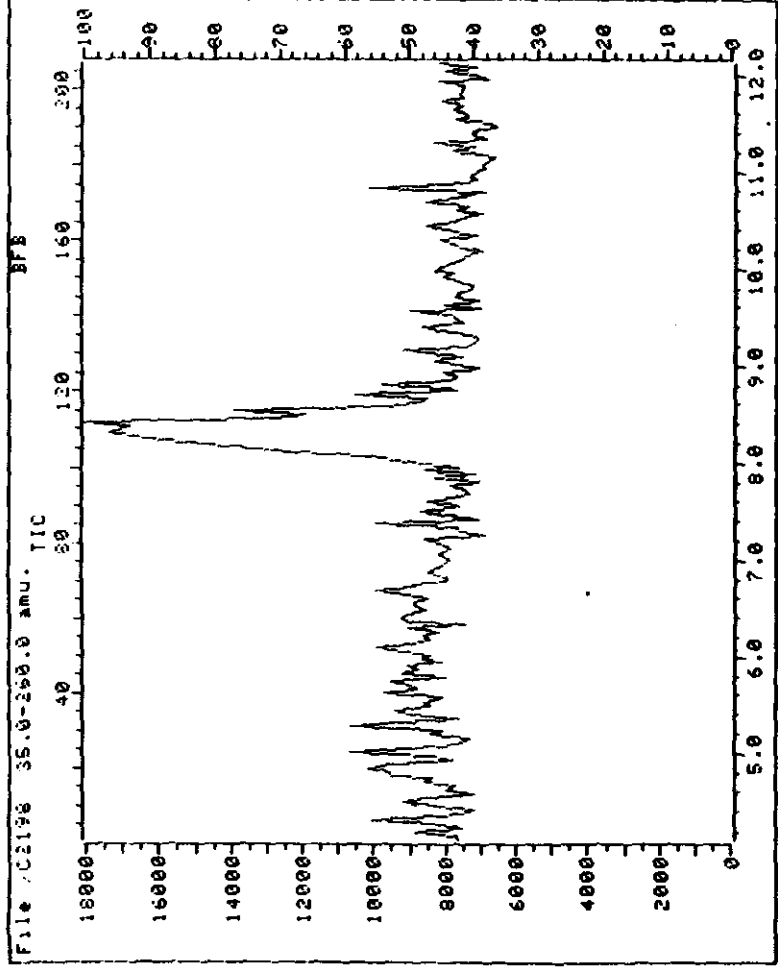
File: >C2198 Scan #: 112 Retn. time: 8.43

| m/z | Int. | m/z | Int. | m/z | Int. | m/z | Int. | m/z | Int. |
|-------|--------|-------|--------|--------|---------|--------|--------|--------|-------|
| 35.20 | 7.000 | 52.90 | 3.389 | 77.90 | 1.394 | 114.30 | 1.425 | 189.00 | 1.615 |
| 35.90 | 4.815 | 56.00 | 1.109 | 79.00 | 4.878 | 118.80 | 1.077 | 192.90 | 1.520 |
| 37.00 | 10.200 | 57.10 | 1.267 | 80.70 | 3.168 | 121.80 | 1.204 | 193.90 | 1.109 |
| 38.00 | 10.073 | 59.20 | 7.792 | 86.90 | 2.724 | 127.30 | .950 | 201.80 | 1.045 |
| 39.10 | 4.720 | 60.00 | 2.091 | 88.00 | 2.914 | 129.90 | 1.140 | 202.10 | 1.077 |
| 40.00 | 3.833 | 60.30 | 2.249 | 92.90 | 1.615 | 131.10 | 1.774 | 206.90 | 6.082 |
| 41.00 | 5.448 | 62.00 | 6.240 | 94.00 | 10.295 | 133.10 | .063 | 207.90 | 1.394 |
| 42.00 | 10.295 | 63.70 | 2.186 | 95.00 | 100.000 | 147.00 | .253 | 208.30 | 1.235 |
| 43.00 | 2.281 | 65.90 | 2.439 | 96.00 | 6.335 | 155.40 | 1.425 | 208.90 | 1.457 |
| 44.00 | .317 | 67.90 | 13.019 | 98.20 | 2.439 | 164.70 | 2.597 | 215.10 | 1.172 |
| 46.30 | 7.634 | 69.00 | 10.421 | 102.10 | 1.901 | 166.20 | .950 | 223.00 | 2.376 |
| 46.90 | 7.475 | 71.90 | .443 | 105.30 | 1.330 | 173.90 | 95.059 | 224.50 | 1.140 |
| 47.80 | 5.385 | 73.00 | 2.692 | 105.60 | 1.267 | 174.90 | 8.331 | 225.00 | .950 |
| 48.00 | 3.579 | 74.00 | 13.272 | 108.80 | 1.489 | 175.90 | 94.900 | 225.30 | 1.077 |
| 49.00 | 10.960 | 75.00 | 45.740 | 109.50 | 1.394 | 176.90 | 8.267 | 226.20 | 1.045 |
| 50.00 | 25.182 | 75.90 | 2.756 | 109.80 | 1.299 | 179.60 | .095 | 250.90 | 3.674 |
| 51.00 | 9.376 | 76.10 | 3.041 | 110.40 | 1.172 | | | | |

You're already on LU: 86

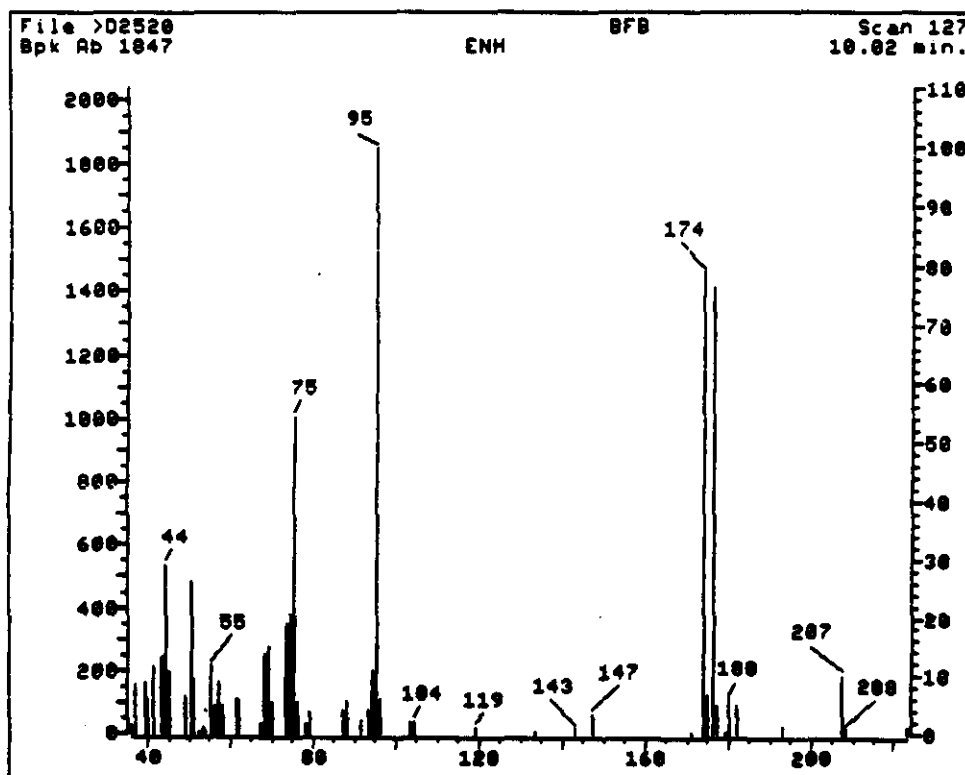
MS Data File: >C2198:1U1

Name: Operator: KB655 Date Time: 1/19/91 13:58
Misc: BFB



MS Data File: >D2520::U0

Name: Operator: KB6656 Date/Time: 1/08/91 16:22
Misc: BFB



MS Data File: >D2520::U0

Name: Operator: KB6656 Date/Time: 1/08/91 16:22
Misc: BFB

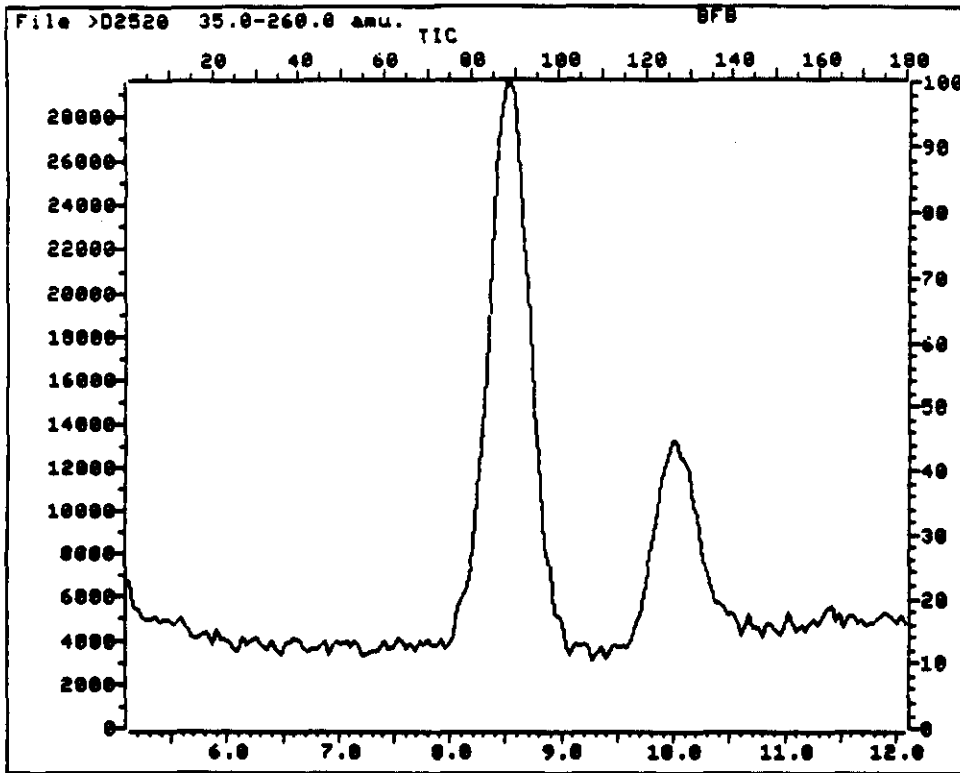
>D2520 BFB
127 NRM ENH

File: >D2520 Scan #: 127 Retn. time: 10.02

| m/z | Int. | m/z | Int. | m/z | Int. | m/z | Int. | m/z | Int. |
|-------|--------|-------|--------|-------|--------|--------|---------|--------|--------|
| 36.20 | 1.483 | 52.15 | .422 | 69.25 | 14.747 | 93.25 | 4.212 | 174.20 | 78.844 |
| 37.30 | 8.553 | 53.25 | 1.083 | 70.25 | 5.414 | 94.25 | 10.632 | 175.10 | 6.637 |
| 39.30 | 8.835 | 54.05 | .433 | 73.25 | 18.807 | 95.25 | 100.000 | 176.20 | 76.148 |
| 40.20 | 6.020 | 55.25 | 11.650 | 74.25 | 20.528 | 96.25 | 6.139 | 177.20 | 4.991 |
| 41.30 | 11.455 | 56.25 | 4.829 | 75.25 | 54.450 | 103.25 | 1.906 | 179.30 | .390 |
| 43.30 | 13.242 | 57.25 | 8.857 | 76.25 | 5.511 | 104.25 | 2.100 | 180.10 | 6.399 |
| 44.25 | 28.995 | 58.15 | 4.721 | 78.15 | 1.711 | 119.25 | 1.083 | 182.10 | 5.078 |
| 45.15 | 10.535 | 61.25 | 6.150 | 79.15 | 3.768 | 133.30 | .466 | 193.10 | 1.256 |
| 49.15 | 6.453 | 62.15 | 5.619 | 87.15 | 4.028 | 143.10 | .931 | 207.30 | 10.221 |
| 50.25 | 26.180 | 67.15 | 1.765 | 88.25 | 5.836 | 147.20 | 3.411 | 208.20 | 1.039 |
| 51.15 | 9.290 | 68.25 | 13.393 | 91.25 | 2.523 | 171.20 | .498 | 223.15 | 1.256 |

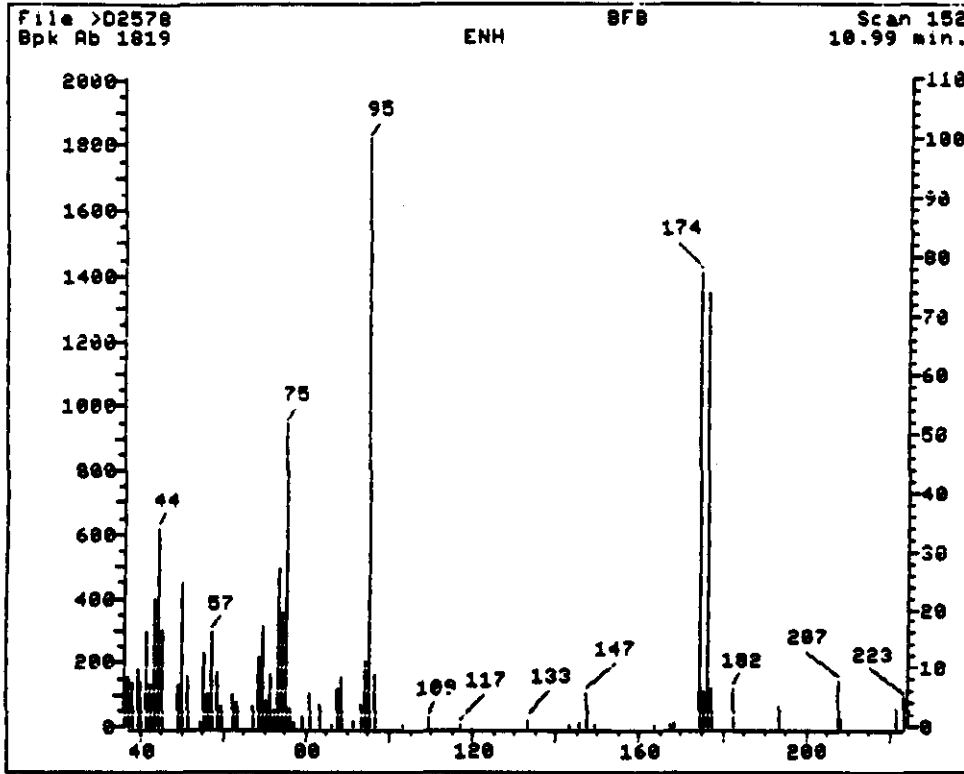
MS Data File: >D2520::U0

Name: Operator: KB6656 Date/Time: 1/08/91 16:22
Misc: BFB



MS Data File: >D2578::U0

Name: Operator: K06656 Date/Time: 1/13/91 11:45
Misc: BFB

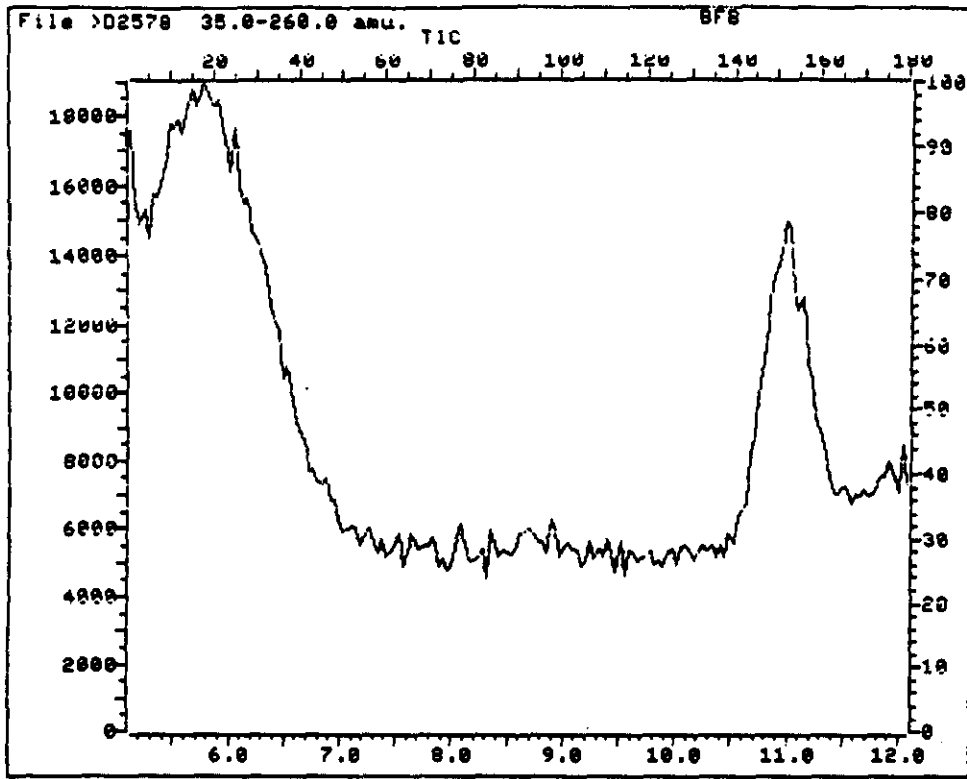


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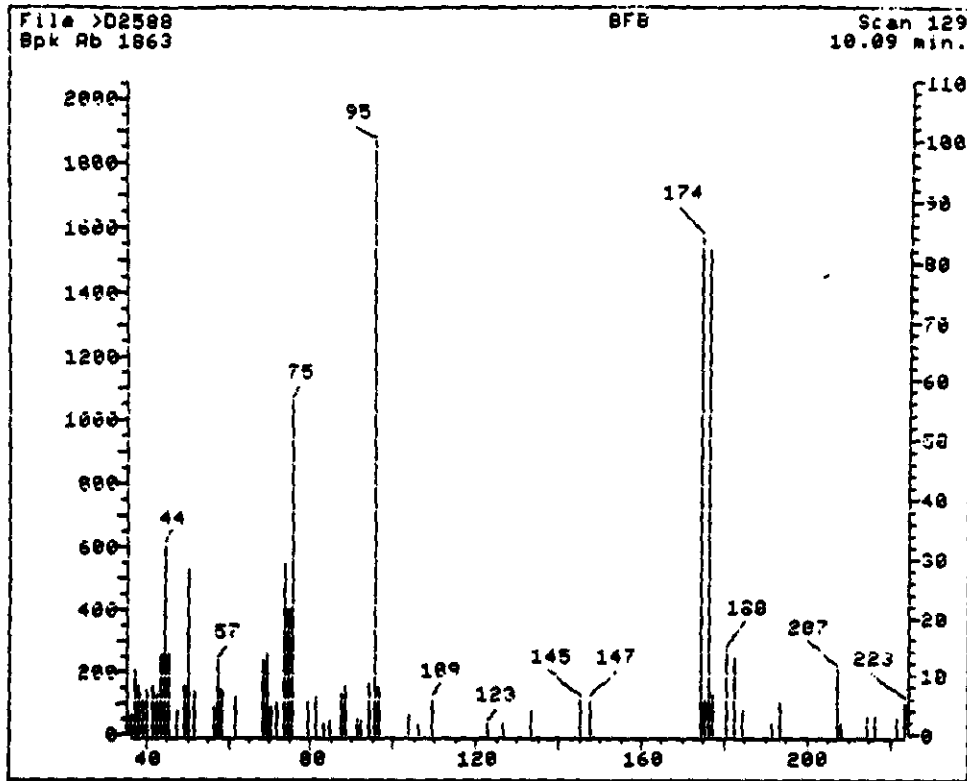
Name: Operator: KB6656

Date/Time: 1/13/91 11:45

Misc: BFB



Name: Operator: KB6656 Date/Time: 1/13/91 18:49
Misc: BFB



MS Data File: >D2588::U1

Name: Operator: K86656 Date/Time: 1/13/91 18:49
Misc: BFB

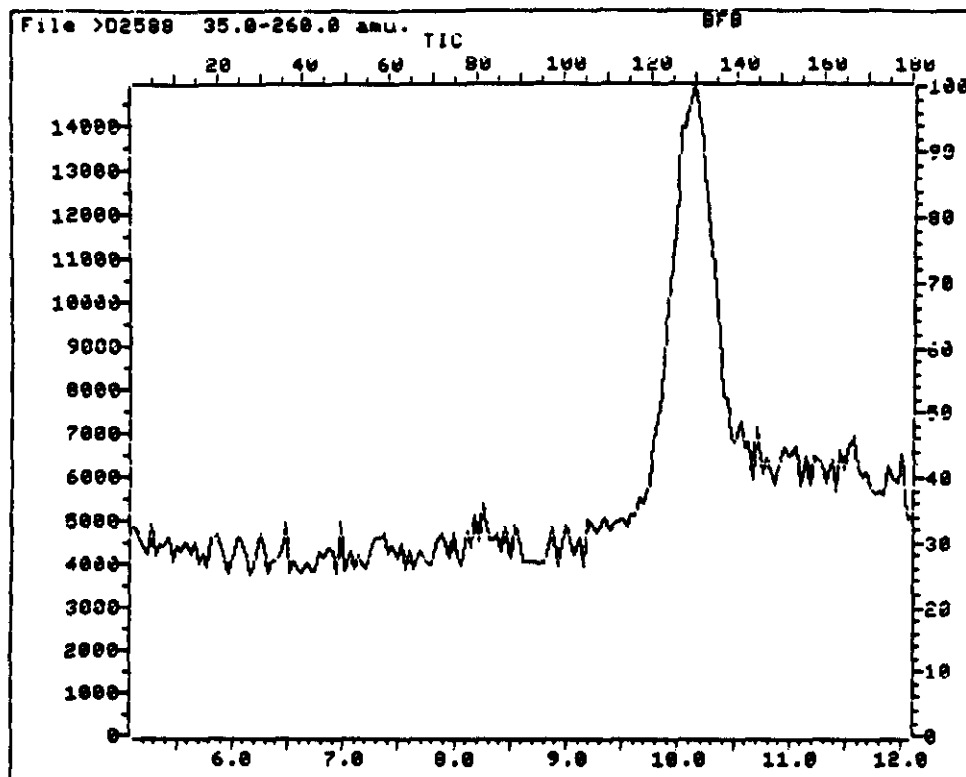
>D2588 BFB
129 NRM

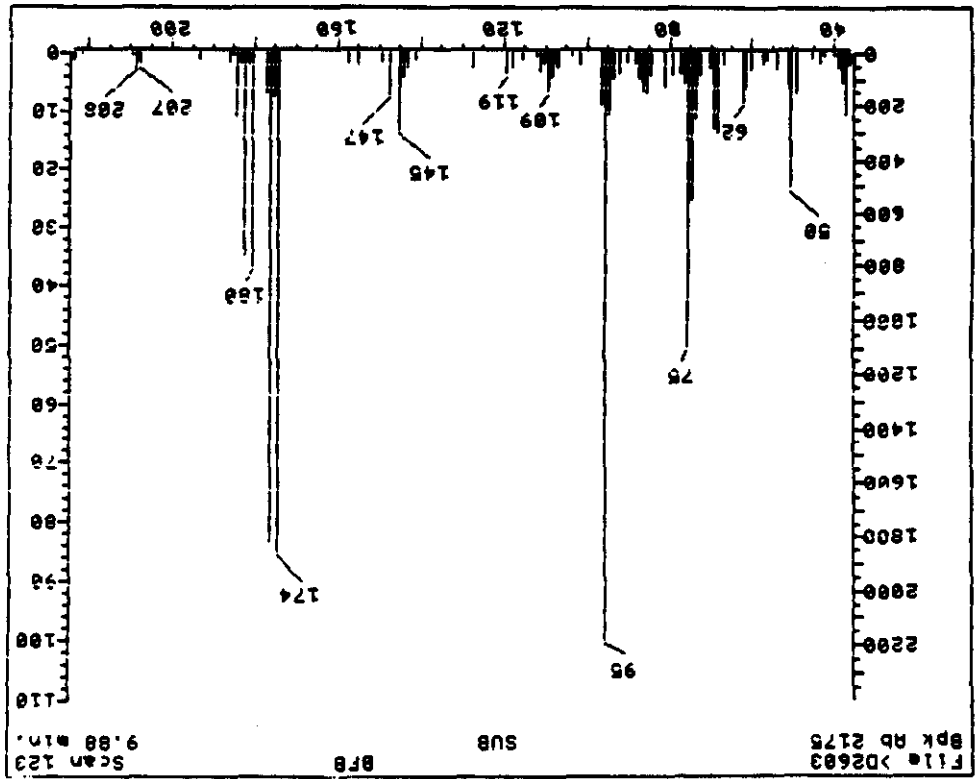
File: >D2588 Scan #: 129 Retn. time: 10.09

| m/z | Int. | m/z | Int. | m/z | Int. | m/z | Int. | m/z | Int. |
|-------|--------|-------|--------|-------|---------|--------|--------|--------|--------|
| 36.40 | 3.274 | 51.45 | 7.407 | 79.35 | 5.797 | 103.55 | 3.489 | 180.40 | 14.332 |
| 37.50 | 11.272 | 56.35 | 4.724 | 81.45 | 6.280 | 105.95 | 2.201 | 182.40 | 13.042 |
| 38.50 | 8.427 | 57.55 | 12.668 | 83.35 | 1.932 | 109.45 | 6.227 | 184.30 | 4.187 |
| 39.40 | 6.065 | 58.45 | 7.729 | 84.45 | 2.308 | 122.85 | 1.986 | 191.30 | 1.986 |
| 40.40 | 7.676 | 61.45 | 6.388 | 87.35 | 6.924 | 126.75 | 1.986 | 193.40 | 5.529 |
| 41.50 | 8.374 | 68.45 | 12.721 | 88.45 | 8.320 | 133.40 | 3.972 | 207.50 | 11.004 |
| 42.50 | 6.656 | 69.45 | 14.117 | 91.25 | 2.684 | 146.40 | 6.065 | 208.40 | 2.147 |
| 43.50 | 13.849 | 70.45 | 4.831 | 92.15 | 2.308 | 147.40 | 5.797 | 214.20 | 2.147 |
| 44.35 | 32.367 | 71.55 | 5.529 | 92.35 | 2.362 | 174.40 | 84.004 | 214.50 | 3.060 |
| 45.45 | 14.010 | 73.45 | 29.254 | 94.35 | 8.910 | 175.40 | 6.227 | 216.35 | 3.221 |
| 47.35 | 4.079 | 74.45 | 21.578 | 95.45 | 100.000 | 176.40 | 82.126 | 221.55 | 2.684 |
| 49.35 | 8.374 | 75.45 | 56.736 | 96.45 | 8.213 | 177.30 | 6.602 | 223.55 | 5.475 |
| 50.35 | 28.288 | | | | | | | | |

MS Data File: >D2588::U1

Name: Operator: KB6656 Date/Time: 1/13/91 18:49
Misc: BFB

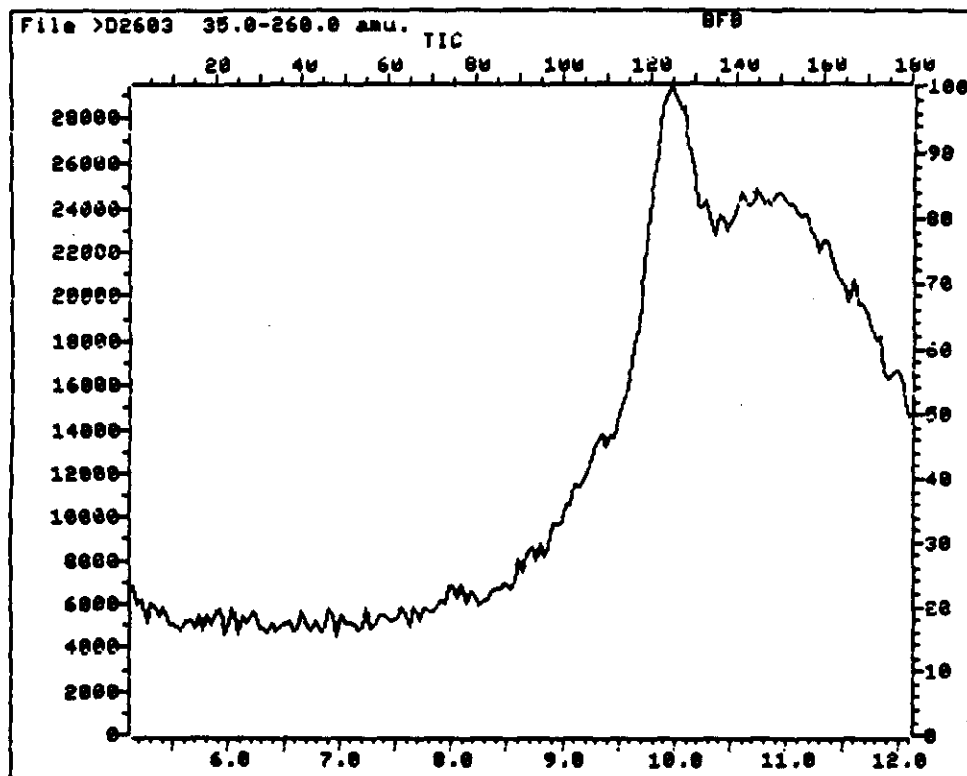




MS Data File: >D2603:U1
Name: Operator: KB656 Date/Time: 1/14/91 9:58
Misc: BFB

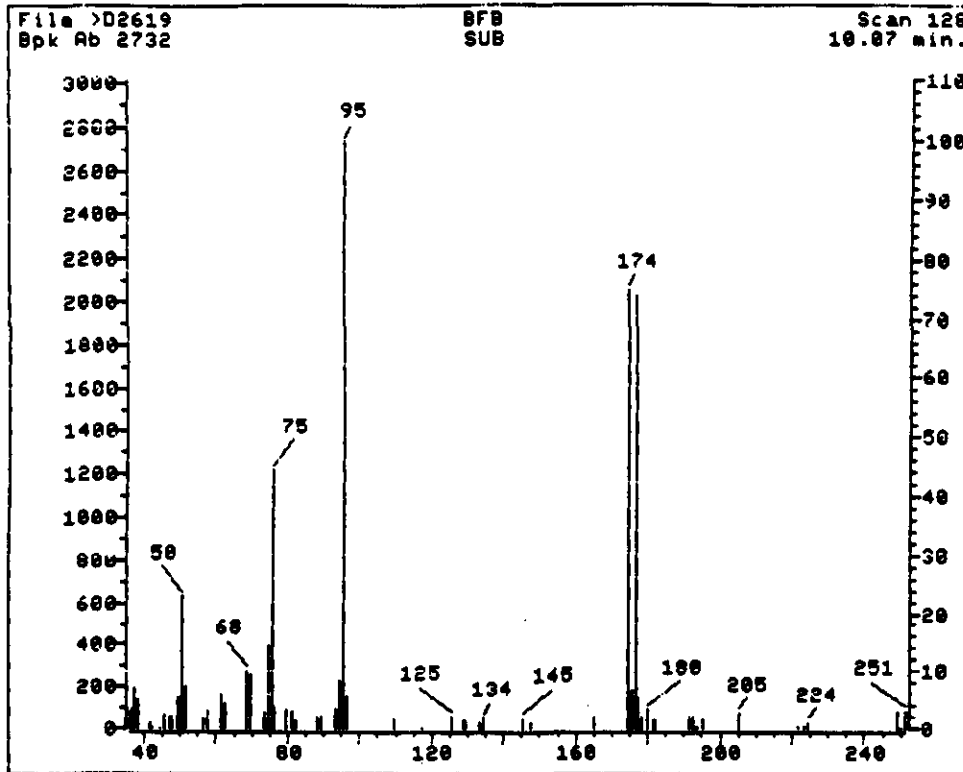
MS Data File: >D2603::U1

Name: Operator: KB6656 Date/Time: 1/14/91 9:58
Misc: BFB



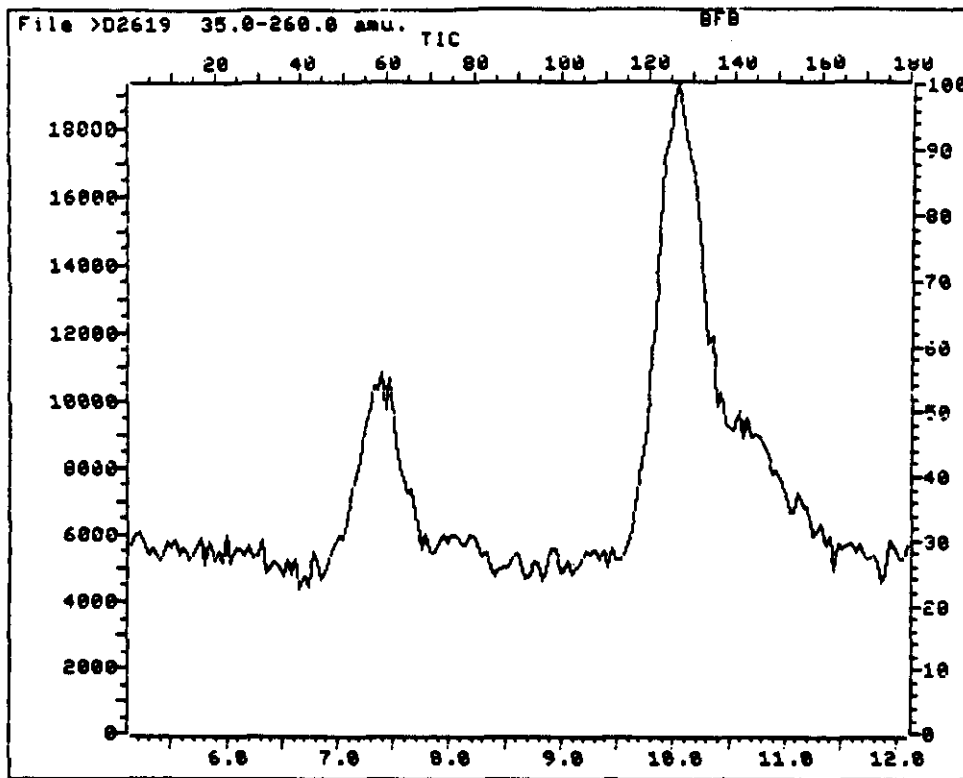
MS Data File: >D2619::U1

Name: Operator: RK2225 Date/Time: 1/15/91 14:02
Misc: BFB



MS Data File: >D2619::U1

Name: Operator: RK2225 Date/Time: 1/15/91 14:02
Misc: BFB



1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

UBLK02⁴
AP 2/18/91

Lab Name: ETCNJ Contract: _____

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix: (soil/water) WATER Lab Sample ID: QC70443U2

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: >C2186

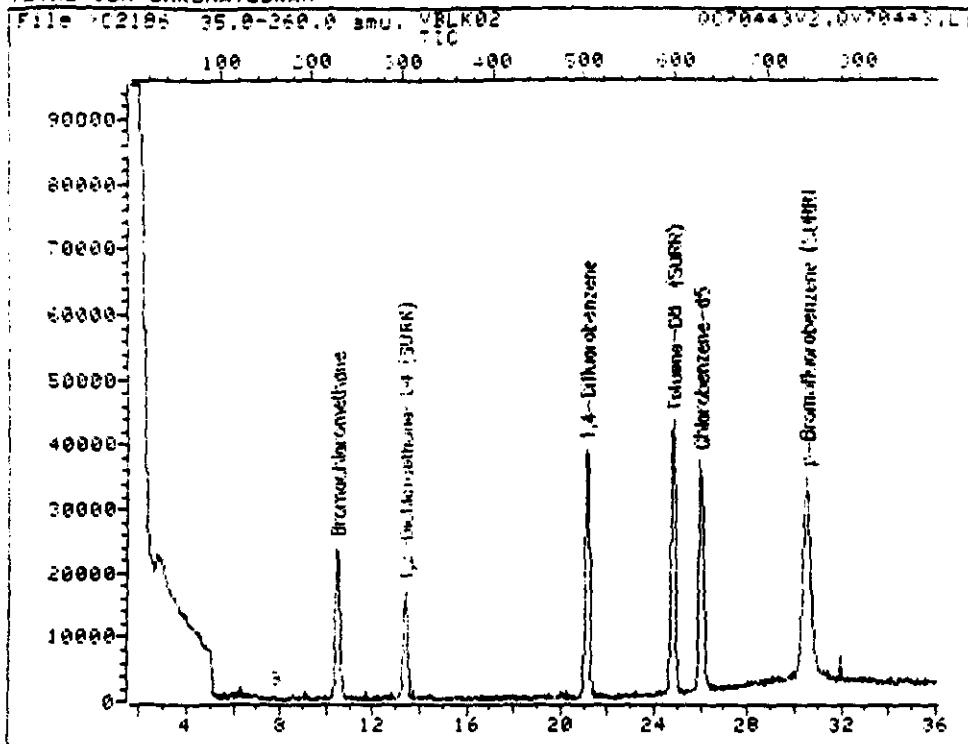
Level: (low/med) LOW Date Received: 01/18/91

% Moisture: not dec. Date Analyzed: 01/18/91

Column: (pack/cap) PACK Dilution Factor: 1

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) | UG/L | Q |
|------------|----------------------------|---|------|---|
| 74-87-3 | Chloromethane | | 10 | U |
| 74-83-9 | Bromomethane | | 10 | U |
| 75-01-4 | Vinyl Chloride | | 10 | U |
| 75-00-3 | Chloroethane | | 10 | U |
| 75-09-2 | Methylene Chloride | | 15 | U |
| 67-64-1 | Acetone | | 14 | U |
| 75-15-0 | Carbon Disulfide | | 15 | U |
| 75-35-4 | 1,1-Dichloroethane | | 15 | U |
| 75-34-3 | 1,1-Dichloroethane | | 15 | U |
| 540-59-0 | 1,2-Dichloroethane (total) | | 15 | U |
| 67-66-3 | Chloroform | | 15 | U |
| 107-06-2 | 1,2-Dichloroethane | | 15 | U |
| 78-93-3 | 2-Butanone | | 10 | U |
| 71-55-6 | 1,1,1-Trichloroethane | | 15 | U |
| 56-23-5 | Carbon Tetrachloride | | 15 | U |
| 108-05-4 | Vinyl Acetate | | 10 | U |
| 75-27-4 | Bromodichloromethane | | 15 | U |
| 78-87-5 | 1,2-Dichloropropane | | 15 | U |
| 10061-01-5 | cis-1,3-Dichloropropane | | 15 | U |
| 79-01-6 | Trichloroethane | | 15 | U |
| 124-48-1 | Dibromochloromethane | | 15 | U |
| 79-00-5 | 1,1,2-Trichloroethane | | 15 | U |
| 71-43-2 | Benzene | | 15 | U |
| 10061-02-6 | trans-1,3-Dichloropropane | | 15 | U |
| 75-25-2 | Bromoform | | 15 | U |
| 108-10-1 | 4-Methyl-2-Pentanone | | 10 | U |
| 591-78-6 | 2-Hexanone | | 10 | U |
| 127-18-4 | Tetrachloroethene | | 15 | U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | | 15 | U |
| 108-88-3 | Toluene | | 15 | U |
| 108-90-7 | Chlorobenzene | | 15 | U |
| 100-41-4 | Ethylbenzene | | 15 | U |
| 100-42-5 | Styrene | | 15 | U |
| 1330-20-7 | Xylene (total) | | 15 | U |

TOTAL ION CHROMATOGRAM



Data File: ^C2186::U1
Name: UBLK02
Misc: QC70443U2,QU70443,L:M4,

Quant Output File: ^C2186::A0

Id File: IC1204::SS
Title: IFB, PP/VOA, XV0A13
Last Calibration: 910118 11:53

Operator ID: KB6656
Quant Time: 910118 13:14
Injected at: 910118 12:37

QUANT REPORT

Page 1

Operator ID: KB6656
 Output File: ^C2186::AQ
 Data File: >C2186::U1
 Name: VBLK02
 Misc: QC70443U2,QU70443,L:M4,

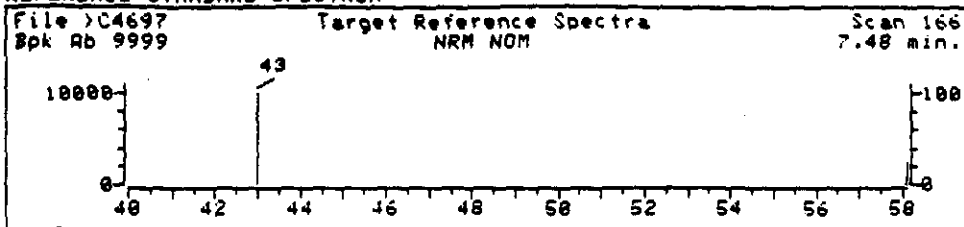
Quant Rev: 7 Quant Time: 910118 13:14
 Injected at: 910118 12:37
 Dilution Factor: 1.00000

ID File: IC1204::SS
 Title: IFB, PP/VOA, XVOA13
 Last Calibration: 910118 11:53

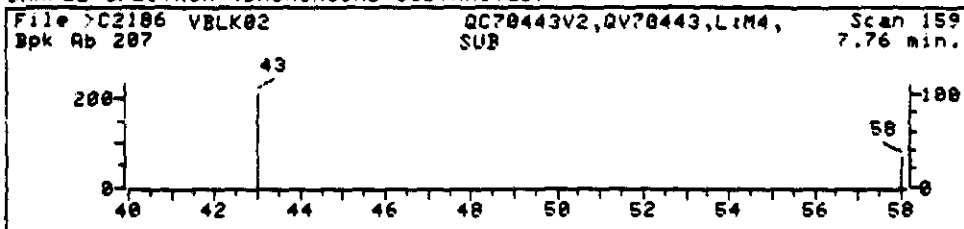
| Compound | R.T. | Scan# | Area | Conc | Units | q |
|----------------------------------|-------|-------|--------|--------|-------|----|
| 1) *Bromochloromethane | 10.47 | 229 | 47453 | 250.00 | NG | 95 |
| 9) Acetone | 7.76 | 159 | 2738 | 22.16 | NG | 88 |
| 18) 1,2-Dichloroethane-D4 (SURR) | 13.38 | 304 | 71515 | 232.71 | NG | 84 |
| 20) *1,4-Difluorobenzene | 21.13 | 504 | 208802 | 250.00 | NG | 91 |
| 36) *Chlorobenzene-d5 | 25.98 | 629 | 121129 | 250.00 | NG | 94 |
| 41) Toluene-D8 (SURR) | 24.81 | 599 | 205652 | 267.31 | NG | 93 |
| 45) p-Bromofluorobenzene (SURR) | 30.52 | 744 | 111621 | 267.05 | NG | 84 |

* Compound is ISTD

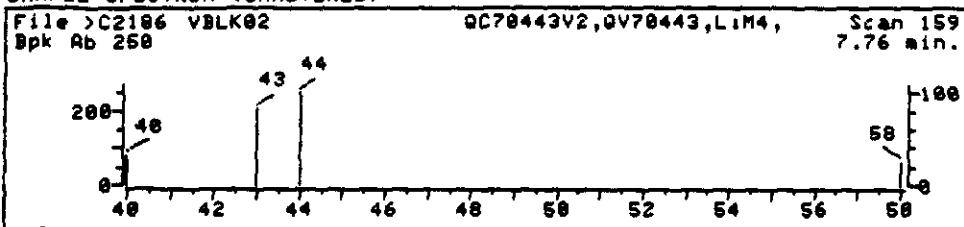
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)



Data File: >C2186::U1
Name: VBLK02
Misc: QC70443V2,QV70443,L:M4,
Quant Time: 910118 13:14
Injected at: 910118 12:37

Quant Output File: ^C2186::AQ

Quant ID File: IC1204::SS
Last Calibration: 910118 11:53

Compound No: 9
Compound Name: Acetone
Scan Number: 159
Retention Time: 7.76 min.
Quant Ion: 43.0
Area: 2738
Concentration: 22.16 NG
q-value: 88

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

UUBLK03

Lab Name: ETCNJ

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.:

Matrix: (soil/water) WATER

Lab Sample ID: QC70443U3

Sample wt/vol: 5.0 (g/mL) ML

Lab File ID: QC2211

Level: (low/med) LOW

Date Received: 01/19/91

% Moisture: not dec.

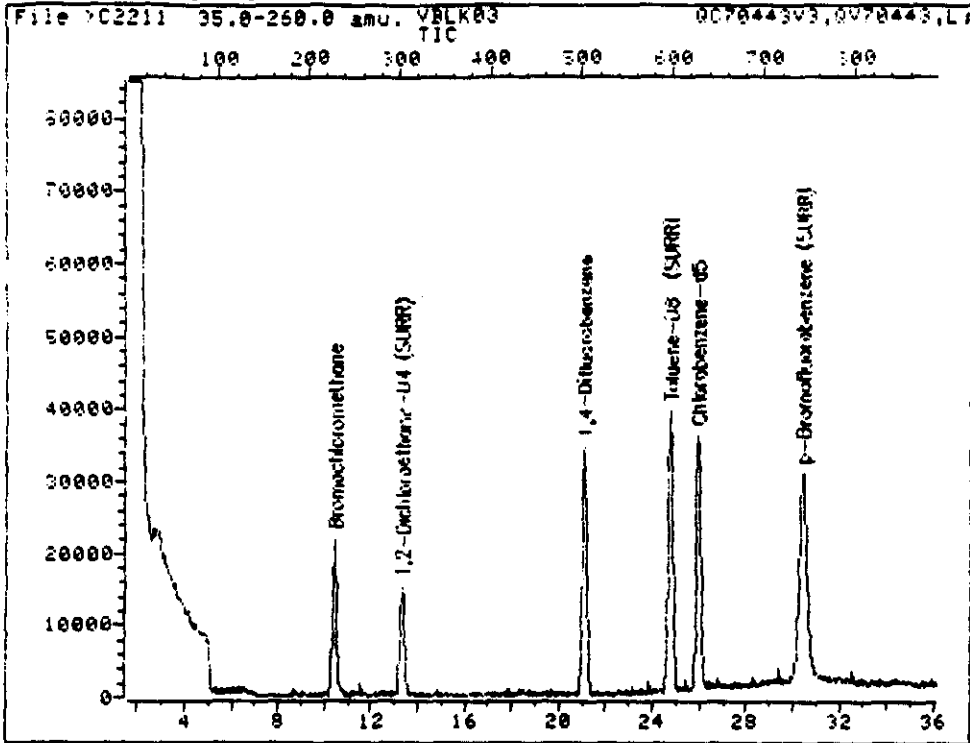
Date Analyzed: 01/19/91

Column: (pack/cap) PACK

Dilution Factor: 1

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | Q |
|------------|----------------------------|--|-----|
| 74-87-3 | Chloromethane | 10 | 1U |
| 74-83-9 | Bromomethane | 10 | 1U |
| 75-01-4 | Vinyl Chloride | 10 | 1U |
| 75-00-3 | Chloroethane | 10 | 1U |
| 75-09-2 | Methylene Chloride | 15 | 1U |
| 67-64-1 | Acetone | 10 | 1U |
| 75-15-0 | Carbon Disulfide | 15 | 1U |
| 75-35-4 | 1,1-Dichloroethane | 15 | 1U |
| 75-34-3 | 1,1-Dichloroethane | 15 | 1U |
| 540-59-0 | 1,2-Dichloroethane (total) | 15 | 1U |
| 67-66-3 | Chloroform | 15 | 1U |
| 107-06-2 | 1,2-Dichloroethane | 15 | 1U |
| 78-93-3 | 2-Butanone | 10 | 1U |
| 71-55-6 | 1,1,1-Trichloroethane | 15 | 1U |
| 56-23-5 | Carbon Tetrachloride | 15 | 1U |
| 108-05-4 | Vinyl Acetate | 10 | 1U |
| 75-27-4 | Bromodichloromethane | 15 | 1U |
| 78-87-5 | 1,2-Dichloropropane | 15 | 1U |
| 10061-01-5 | cis-1,3-Dichloropropane | 15 | 1U |
| 79-01-6 | Trichloroethane | 15 | 1U |
| 124-48-1 | Dibromochloromethane | 15 | 1U |
| 79-00-5 | 1,1,2-Trichloroethane | 15 | 1U |
| 71-43-2 | Benzene | 15 | 1U |
| 10061-02-6 | trans-1,3-Dichloropropane | 15 | 1U |
| 75-25-2 | Bromoform | 15 | 1U |
| 108-10-1 | 4-Methyl-2-Pentanone | 10 | 1U |
| 591-78-6 | 2-Hexanone | 10 | 1U |
| 127-18-4 | Tetrachloroethane | 15 | 1U |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 15 | 1U |
| 108-88-3 | Toluene | 15 | 1U |
| 108-90-7 | Chlorobenzene | 15 | 1U |
| 100-41-4 | Ethylbenzene | 15 | 1U |
| 100-42-5 | Styrene | 15 | 1U |
| 1330-20-7 | Xylene (total) | 15 | 1U |
| | | | 282 |

TOTAL ION CHROMATOGRAM



Data File: >C2211::U1
Name: UBLK03
Misc: QC70443U3,QU70443,L:M4,5,,

Quant Output File: >C2211::AQ

Id File: IC1204::SS
Title: IFB, PP/VOA, XUOA13
Last Calibration: 910119 18:15

Operator ID: KB6656
Quant Time: 910119 18:16
Injected at: 910119 16:26

QUANT REPORT

Page 1

Operator ID: KB6656 Quant Rev: 7 Quant Time: 910119 18:16
Output File: DC2211::AD Injected at: 910119 18:26
Data File: DC2211::U1 Dilution Factor: 1.00000
Name: UBLK03
Misc: DC2044303,DU20443,L:M4,S,,

ID File: IC1204::SS
Title: IFB, PPXUQA, XUQA13
Last Calibration: 910119 18:15

| | Compound | R.T. | Scan# | Area | Conc | Units | z |
|-----|------------------------------|-------|-------|--------|--------|-------|----|
| 1) | *Bromochloromethane | 10.43 | 228 | 42565 | 250.00 | NG | 83 |
| 18) | 1,2-Dichloroethane-D4 (SURR) | 13.34 | 303 | 67102 | 239.71 | NG | 81 |
| 20) | *1,4-Difluorobenzene | 21.09 | 503 | 182628 | 250.00 | NG | 90 |
| 36) | *Chlorobenzene-d5 | 25.93 | 628 | 133122 | 250.00 | NG | 94 |
| 41) | Toluene-D8 (SURR) | 24.77 | 598 | 187963 | 245.13 | NG | 90 |
| 45) | p-Bromofluorobenzene (SURR) | 30.44 | 743 | 102804 | 273.89 | NG | 94 |

* Compound is ISTD

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

1086101

Lab Name: ETC Corp.

Contract:

Lab Code:

Case No.:

SAS No.:

SUG No.:

Matrix: (soil/water) WATER

Lab Sample ID: Q070445

Sample wt/vol: 5.0 (g/mL) ML

Lab File ID: >00590

Level: (low/med) LOW

Date Received: 1/13/91

% Moisture: not dec.

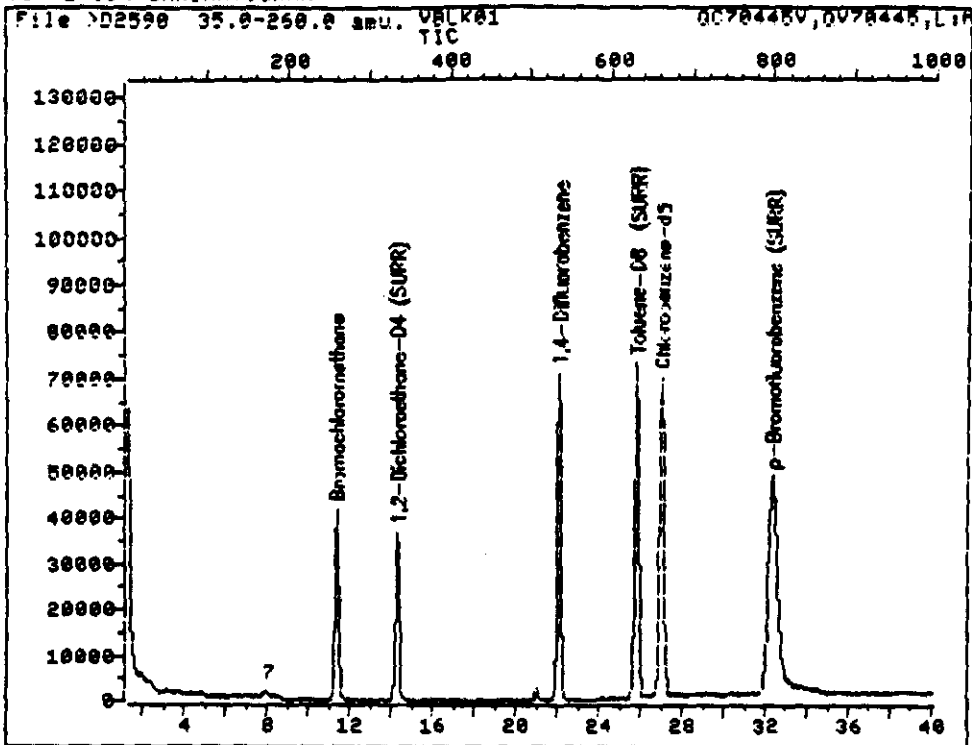
Date Analyzed: 01-13-91

Column: (pack/cap) PACK

Dilution Factor:

| CAS NO. | COMPOUND | CONCENTRATION UNITS: | |
|------------|----------------------------|----------------------|------|
| | | (ug/L or ug/kg) | ug/L |
| 74-87-3 | Chloromethane | 10 | 10 |
| 74-83-9 | Bromomethane | 10 | 10 |
| 75-01-4 | Vinyl Chloride | 10 | 10 |
| 75-00-3 | Chloroethane | 10 | 10 |
| 75-09-2 | Methylene Chloride | 11 | 11 |
| 67-64-1 | Acetone | 10 | 10 |
| 75-15-0 | Carbon Disulfide | 15 | 10 |
| 75-35-4 | 1,1-Dichloroethene | 15 | 10 |
| 75-34-3 | 1,1-Dichloroethane | 15 | 10 |
| 540-59-0 | 1,2-Dichloroethene (total) | 15 | 10 |
| 67-66-3 | Chloroform | 15 | 10 |
| 107-06-2 | 1,2-Dichloroethane | 15 | 10 |
| 78-93-3 | 2-Butanone | 10 | 10 |
| 71-55-6 | 1,1,1-Trichloroethane | 15 | 10 |
| 56-23-5 | Carbon Tetrachloride | 15 | 10 |
| 108-05-4 | Vinyl Acetate | 10 | 10 |
| 75-27-4 | Bromodichloromethane | 15 | 10 |
| 78-87-5 | 1,2-Dichloropropane | 15 | 10 |
| 10061-01-5 | cis-1,3-Dichloropropene | 15 | 10 |
| 79-01-6 | Trichloroethene | 15 | 10 |
| 124-48-1 | Dibromochloromethane | 15 | 10 |
| 79-00-5 | 1,1,2-Trichloroethane | 15 | 10 |
| 71-43-2 | Benzene | 15 | 10 |
| 10061-02-6 | trans-1,3-Dichloropropene | 15 | 10 |
| 75-25-2 | Bromoform | 15 | 10 |
| 108-10-1 | 4-Methyl-2-Pentanone | 10 | 10 |
| 591-78-6 | 2-Hexanone | 10 | 10 |
| 127-18-4 | Tetrachloroethene | 15 | 10 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 15 | 10 |
| 108-88-3 | Toluene | 15 | 10 |
| 108-90-7 | Chlorobenzene | 15 | 10 |
| 100-41-4 | Ethylbenzene | 15 | 10 |
| 100-42-5 | Styrene | 15 | 10 |
| 1330-20-7 | Xylene (total) | 15 | 10 |

TOTAL ION CHROMATOGRAM



Date File: >D2590::U1

Quant Output File: ^D2590::AQ

Name: UBLK01

Misc: QC70445U,QU70445,L:M4,5,,

Id File: ID0310::SS

Title: PP/VDA, IFB, XUDA13, XUDA9

Last Calibration: 910113 18:53

Operator ID: KB6656

Quant Time: 910113 20:37

Injected at: 910113 19:56

QUANT REPORT

Page 1

Operator ID: KB6656
 Output File: ^D2590::AQ
 Data File: >D2590::U1
 Name: VBLK01
 Misc: QC70445U,QU70445,L:M4,5,,

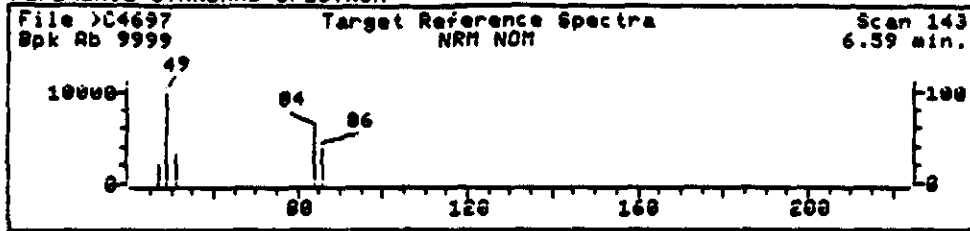
Quant Rev: 7 Quant Time: 910113 20:37
 Injected at: 910113 19:56
 Dilution Factor: 1.00000

ID File: IDU310::SS
 Title: PP/ODA, IFB, X00A13, X00A9
 Last Calibration: 910113 18:53

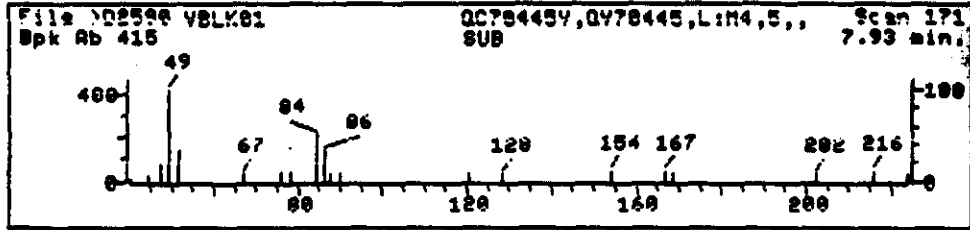
| | Compound | R.T. | Scan# | Area | Conc | Units | q |
|-----|------------------------------|-------|-------|--------|--------|-------|----|
| 1) | *Bromochloromethane | 11.38 | 260 | 75353 | 250.00 | NG | 94 |
| 7) | Methylene chloride | 7.93 | 171 | 2509 | 5.60 | NG | 95 |
| 18) | 1,2-Dichloroethane-D4 (SURR) | 14.32 | 336 | 181627 | 226.18 | NG | 96 |
| 21) | *1,4-Difluorobenzene | 22.12 | 537 | 322537 | 250.00 | NG | 97 |
| 37) | *Chlorobenzene-d5 | 27.02 | 663 | 270368 | 250.00 | NG | 78 |
| 42) | Toluene-D8 (SURR) | 25.80 | 632 | 326552 | 240.69 | NG | 98 |
| 46) | p-Bromofluorobenzene (SURR) | 32.33 | 800 | 210623 | 250.21 | NG | 83 |

* Compound is ISTD

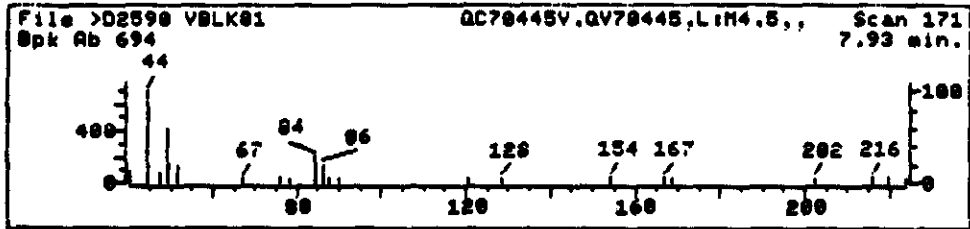
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)



Data File: >D2590::U1 Quant Output File: ^D2590::AQ
 Name: VBLK01
 Misc: QC70445U, QV70445, L:M4,5,,
 Quant Time: 910113 20:37 Quant ID File: 100310::SS
 Injected at: 910113 19:56 Last Calibration: 910113 18:53

Compound No: 7
 Compound Name: Methylene chloride
 Scan Number: 171
 Retention Time: 7.93 min.
 Quant Ion: 84.0
 Area: 2509
 Concentration: 5.60 NG
 q-value: 98

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

108LKO2

Lab Name: ETC Corp.

Contract:

Lab Code:

Case No.:

SAS No.:

SUG No.:

Matrix: (soil/water) WATER

Lab Sample ID: QC704450L

Sample wt/vol: 5.0 (g/mL) ML

Lab File ID: >D2606

Level: (low/med) LOW

Date Received: 1/14/91

% Moisture: not dec.

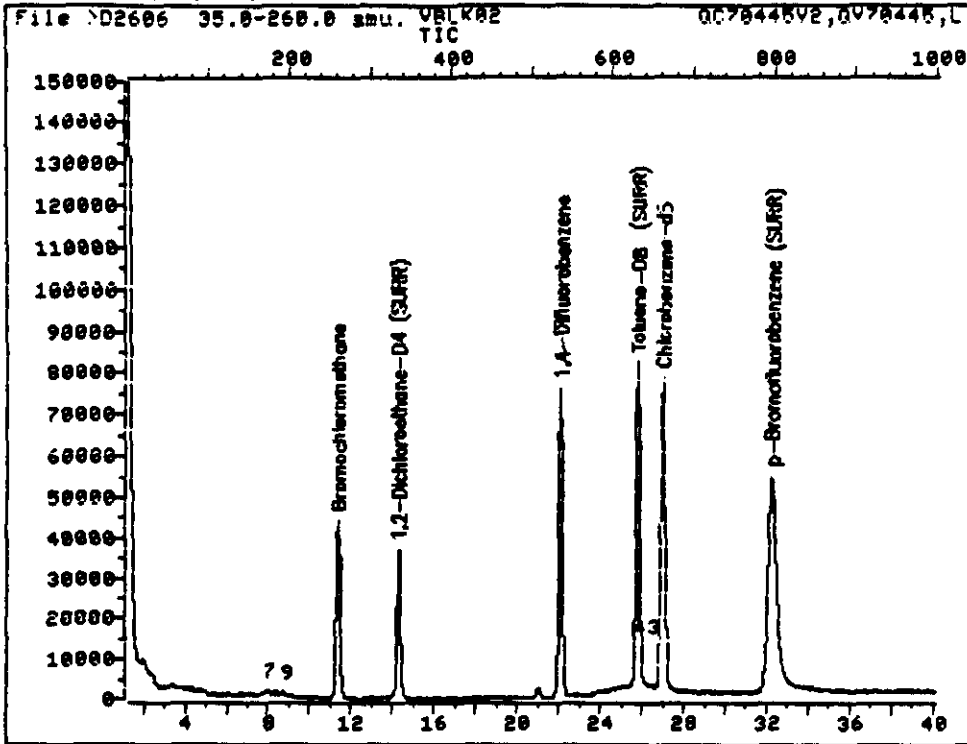
Date Analyzed: 01/14/91

Column: (pack/cap) PACK

Dilution Factor:

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L | |
|------------|----------------------------|--|----|
| 74-87-3 | Chloromethane | 110 | 10 |
| 74-83-9 | Bromomethane | 110 | 10 |
| 75-01-4 | Vinyl Chloride | 110 | 10 |
| 75-00-3 | Chloroethane | 110 | 10 |
| 75-09-2 | Methylene Chloride | 14 | 10 |
| 67-64-1 | Acetone | 110 | 10 |
| 75-15-0 | Carbon Disulfide | 15 | 10 |
| 75-35-4 | 1,1-Dichloroethene | 15 | 10 |
| 75-34-3 | 1,1-Dichloroethane | 15 | 10 |
| 540-59-0 | 1,2-Dichloroethene (total) | 15 | 10 |
| 67-66-3 | Chloroform | 15 | 10 |
| 107-06-2 | 1,2-Dichloroethane | 15 | 10 |
| 78-93-3 | 2-Butanone | 110 | 10 |
| 71-55-6 | 1,1,1-Trichloroethane | 15 | 10 |
| 56-23-5 | Carbon Tetrachloride | 15 | 10 |
| 108-05-4 | Vinyl Acetate | 110 | 10 |
| 75-27-4 | Bromodichloromethane | 15 | 10 |
| 78-87-5 | 1,2-Dichloropropane | 15 | 10 |
| 10061-01-5 | cis-1,3-Dichloropropene | 15 | 10 |
| 79-01-6 | Trichloroethene | 15 | 10 |
| 124-48-1 | Dibromochloromethane | 15 | 10 |
| 79-00-5 | 1,1,2-Trichloroethane | 15 | 10 |
| 71-43-2 | Benzene | 15 | 10 |
| 10061-02-6 | trans-1,3-Dichloropropene | 15 | 10 |
| 75-25-2 | Bromoform | 15 | 10 |
| 108-10-1 | 4-Methyl-2-Pentanone | 110 | 10 |
| 591-78-6 | 2-Hexanone | 110 | 10 |
| 127-18-4 | Tetrachloroethene | 15 | 10 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 15 | 10 |
| 108-88-3 | Toluene | 15 | 10 |
| 108-90-7 | Chlorobenzene | 15 | 10 |
| 100-41-4 | Ethylbenzene | 15 | 10 |
| 100-42-5 | Styrene | 15 | 10 |
| 1330-20-7 | Xylylene (total) | 15 | 10 |

TOTAL ION CHROMATOGRAM



Data File: >D2606::U1

Quant Output File: ^D2606::AQ

Name: VBLK02

Misc: QC70445U2,QU70445,L:M4,5,,

Id File: ID0310::SS

Title: PP/VOA, IFB, XVOA13, XVOA9

Last Calibration: 910114 11:09

Operator ID: KB6656

Quant Time: 910114 12:48

Injected at: 910114 12:07

QUANT REPORT

Page 1

Operator ID: KB6656 Quant Rev: 7 Quant Time: 910114 12:48
 Output File: ^D2606::AQ Injected at: 910114 12:07
 Data File: >D2606::U1 Dilution Factor: 1.00000
 Name: VBLK02
 Misc: QC70445U2,QU70445,L:M4,5,,

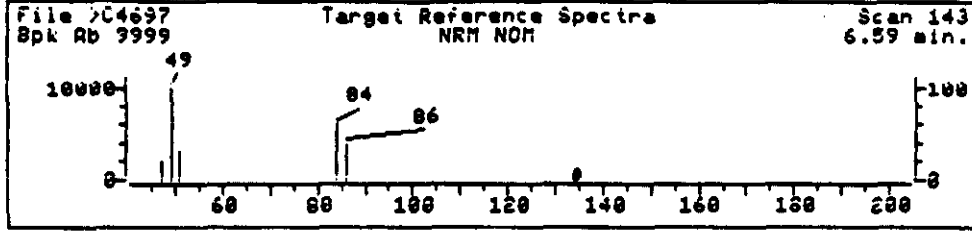
ID File: ID0310::SS
 Title: PP/VOA, IFB, XVOA13, XVOA9
 Last Calibration: 910114 11:09

| Compound | R.T. | Scan# | Area | Conc | Units | q |
|----------------------------------|-------|-------|--------|------------------|---------------|----|
| 1) *Bromochloromethane | 11.36 | 261 | 78761 | 250.00 | NG | 92 |
| 7) Methylene chloride | 7.91 | 172 | 3225 | 22.11 | NG | 99 |
| 9) Acetone | 8.73 | 193 | 4808 | 22.92 | NG | 89 |
| 18) 1,2-Dichloroethane-D4 (SURR) | 14.27 | 336 | 183461 | 249.19 | NG | 9 |
| 21) *1,4-Difluorobenzene | 22.10 | 538 | 348767 | 250.00 | NG | 99 |
| 37) *Chlorobenzene-d5 | 27.00 | 664 | 294018 | 250.00 | NG | 7 |
| 42) Toluene-D8 (SURR) | 25.79 | 633 | 356192 | 245.38 | NG | 94 |
| 43) Toluene | 25.98 | 638 | 2127 | 2.60 | NG | 92 |
| 46) p-Bromofluorobenzene (SURR) | 32.23 | 799 | 225832 | 247.80 | NG | 85 |

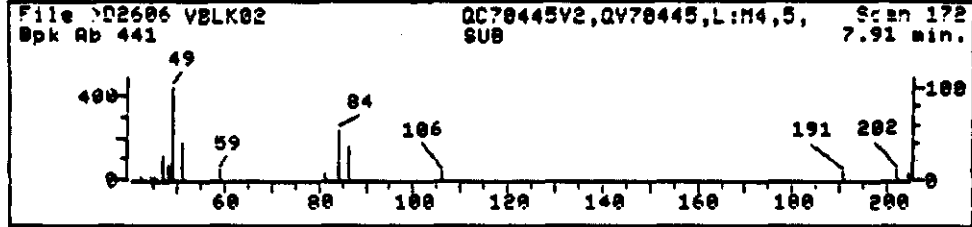
* Compound is ISTD

AP 1/22/11

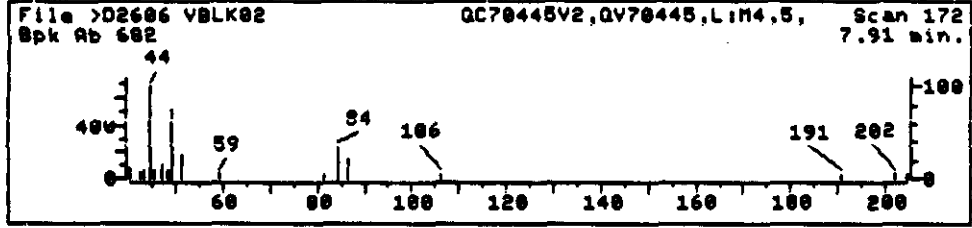
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)



Data File: >D2606::U1 Quant Output File: ^D2606::AQ
 Name: UBLK02
 Misc: QC70445V2, QV70445, L:M4,5,,
 Quant Time: 910114 12:48 Quant ID File: 100310::SS
 Injected at: 910114 12:07 Last Calibration: 910114 11:09

Compound No: 7
 Compound Name: Methylene chloride
 Scan Number: 172
 Retention Time: 7.91 min.
 Quant Ion: 84.0
 Area: 3225
 Concentration: 22.11 NG
 q-value: 99

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

UUBLK03

Lab Name: ETC Corp.

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.:

Matrix: (soil/water) WATER

Lab Sample ID: UC204450

Sample wt/vol: 5.0 (g/mL) ML

Lab File ID: >02621

Level: (low/med) LOW

Date Received: 1/18/91

% Moisture: not dec.

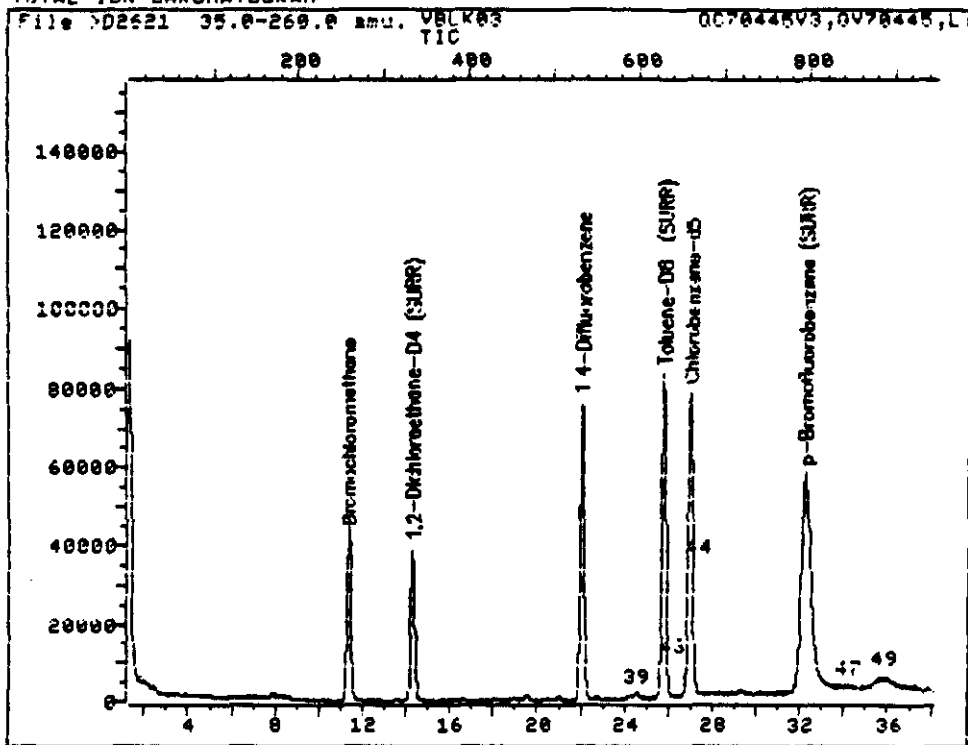
Date Analyzed: 01/15/91

Column: (pack/cap) PACK

Dilution Factor:

| CAS NO. | COMPOUND | CONCENTRATION UNITS: | |
|------------|----------------------------|----------------------|------|
| | | (ug/L or ug/Kg) | UG/L |
| 74-87-3 | Chloromethane | 10 | 10 |
| 74-83-9 | Bromomethane | 10 | 10 |
| 75-01-4 | Vinyl Chloride | 10 | 10 |
| 75-00-3 | Chloroethane | 10 | 10 |
| 75-09-2 | Methylene Chloride | 15 | 10 |
| 67-64-1 | Acetone | 10 | 10 |
| 75-15-0 | Carbon Disulfide | 15 | 10 |
| 75-35-4 | 1,1-Dichloroethane | 15 | 10 |
| 75-34-3 | 1,1-Dichloroethane | 15 | 10 |
| 540-59-0 | 1,2-Dichloroethane (total) | 15 | 10 |
| 67-66-3 | Chloroform | 15 | 10 |
| 107-06-2 | 1,2-Dichloroethane | 15 | 10 |
| 78-93-3 | 2-Butanone | 10 | 10 |
| 71-55-6 | 1,1,1-Trichloroethane | 15 | 10 |
| 56-23-5 | Carbon Tetrachloride | 15 | 10 |
| 108-05-4 | Vinyl Acetate | 10 | 10 |
| 75-27-4 | Bromodichloromethane | 15 | 10 |
| 78-87-5 | 1,2-Dichloropropene | 15 | 10 |
| 10061-01-5 | cis-1,3-Dichloropropene | 15 | 10 |
| 79-01-6 | Trichloroethene | 15 | 10 |
| 124-48-1 | Dibromochloromethane | 15 | 10 |
| 79-00-5 | 1,1,2-Trichloroethane | 15 | 10 |
| 71-43-2 | Benzene | 15 | 10 |
| 10061-02-6 | trans-1,3-Dichloropropene | 15 | 10 |
| 75-25-2 | Bromoform | 15 | 10 |
| 108-10-1 | 4-Methyl-2-Pentanone | 10 | 10 |
| 591-78-6 | 2-Hexanone | 10 | 10 |
| 127-18-4 | Tetrachloroethene | 15 | 10 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 15 | 10 |
| 108-88-3 | Toluene | 11 | 10 |
| 108-90-7 | Chlorobenzene | 15 | 10 |
| 100-41-4 | Ethylbenzene | 15 | 10 |
| 100-42-5 | Styrene | 1.800 | 10 |
| 1330-20-7 | Xylene (total) | 15 | 10 |

TOTAL ION CHROMATOGRAM



Data File: >D2621::U1

Quant Output File: ^D2621::AQ

Name: VBLK03

Misc: QC70445U3,QU70445,L:M4,5,,

Id File: ID0310::SS

Title: PP/VOA, IFB, XVOA13, XVOA9

Last Calibration: 910114 11:09

Operator ID: RK2225

Quant Time: 910115 16:03

Injected at: 910115 15:14

QUANT REPORT

Operator ID: RK2225
 Output File: ^D2621::AQ
 Data File: >D2621::U1
 Name: UBLK03
 Misc: QC70445U3,QU70445,L:M4,5,,

Quant Rev: 7 Quant Time: 910115 16:05
 Injected at: 910115 15:14
 Dilution Factor: 1.00000

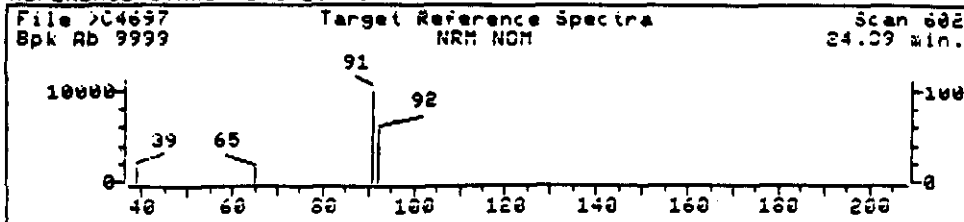
ID File: ID0310::SS
 Title: PP/VDA, IFB, XUDA13, XUDAY
 Last Calibration: 910114 11:09

| Compound | R.T. | Scan# | Area | Conc | Units | q |
|----------------------------------|-------|-------|--------|-----------------|-------|----|
| 1) *Bromochloromethane | 11.35 | 259 | 80556 | 250.00 | NG | 95 |
| 18) 1,2-Dichloroethane-D4 (SURR) | 14.29 | 335 | 187121 | 249.13 | NG | 95 |
| 21) *1,4-Difluorobenzene | 22.05 | 535 | 347519 | 250.00 | NG | 97 |
| 37) *Chlorobenzene-d5 | 26.98 | 662 | 302151 | 250.00 | NG | 7 |
| 39) 2-Hexanone | 24.30 | 593 | 3816 | 2.53 | NG | 85 |
| 42) Toluene-D8 (SURR) | 25.77 | 631 | 364434 | 244.30 | NG | 95 |
| 43) Toluene | 25.96 | 636 | 4359 | 5.18 | NG | 93 |
| 44) Chlorobenzene | 27.10 | 665 | 4874 | 4.42 | NG | 65 |
| 46) p-Bromofluorobenzene (SURR) | 32.22 | 797 | 234979 | 250.90 | NG | 85 |
| 47) Styrene | 33.96 | 842 | 4255 | 4.10 | NG | 95 |
| 49) o+p-Xylenes | 35.59 | 884 | 4908 | 2.84 | NG | 89 |

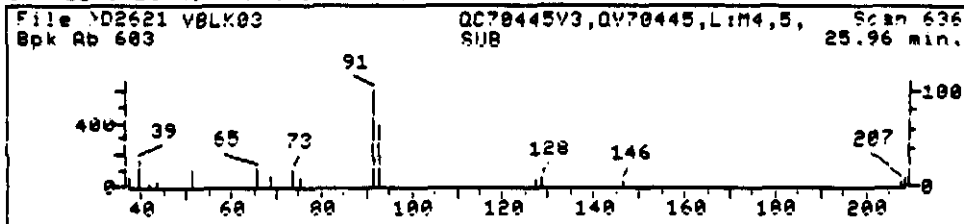
* Compound is ISTD

MP 1/20/91

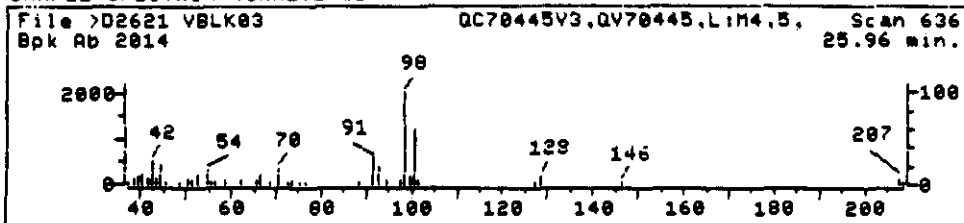
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



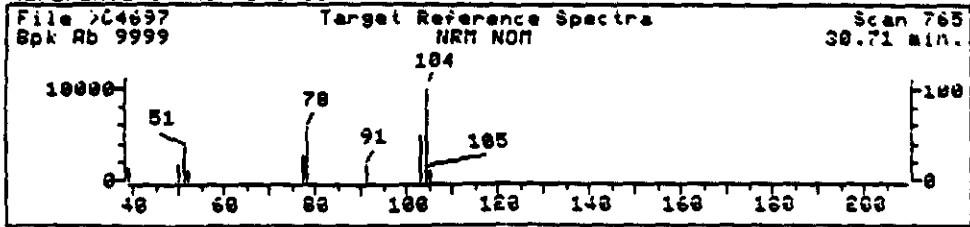
SAMPLE SPECTRUM (UNALTERED)



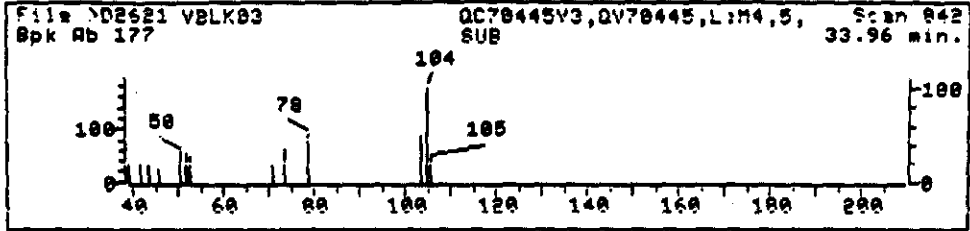
Data File: >D2621::U1 Quant Output File: ^D2621::AQ
 Name: VBLK03
 Misc: QC70445V3,QV70445,L:M4,5,,
 Quant Time: 910115 16:03 Quant ID File: ID0310::SS
 Injected at: 910115 15:14 Last Calibration: 910114 11:09

Compound No: 43
 Compound Name: Toluene
 Scan Number: 636
 Retention Time: 25.96 min.
 Quant Ion: 92.0
 Area: 4359
 Concentration: 5.18 NG
 q-value: 93

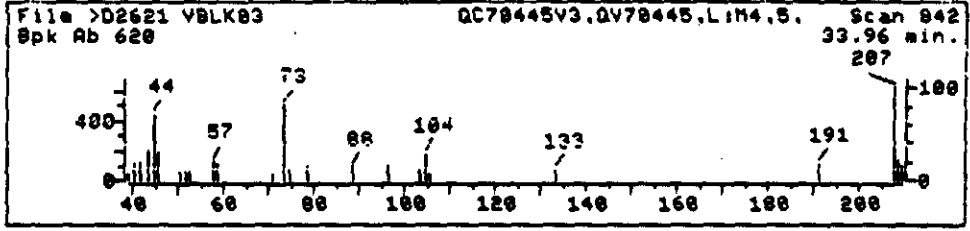
REFERENCE STANDARD SPECTRUM



SAMPLE SPECTRUM (BACKGROUND SUBTRACTED)



SAMPLE SPECTRUM (UNALTERED)



Data File: >D2621::U1 Quant Output File: >D2621::AQ
 Name: VBLK03
 Misc: QC70445V3,QU70445,L:M4,5,,
 Quant Time: 910115 16:03 Quant ID File: ID0310::SS
 Injected at: 910115 15:14 Last Calibration: 910114 11:09

Compound No: 47
 Compound Name: Styrene
 Scan Number: 842
 Retention Time: 33.96 min.
 Quant Ion: 104.0
 Area: 4255
 Concentration: 4.10 NG
 q-value: 95

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

1A5572715

Lab Name: ETC Corp.

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.:

Matrix: (soil/water) WATER

Lab Sample ID: CA5572715

Sample wt/vol: 5.0 (g/mL) ML

Lab File ID: >D2625

Level: (low/med) LUW

Date Received: 1/5/91

% Moisture: not dec.

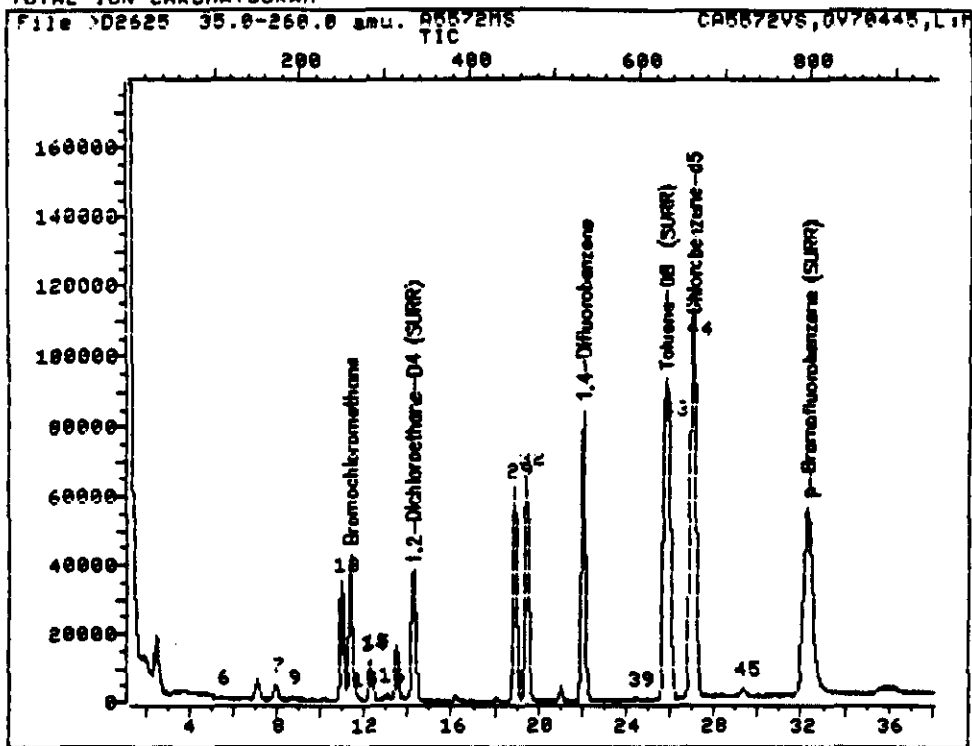
Date Analyzed: 01/15/91

Column: (pack/cap) PACK

Dilution Factor:

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) | UG/L |
|------------|----------------------------|---|------|
| 74-87-3 | Chloromethane | | 10 |
| 74-83-9 | Bromomethane | | 10 |
| 75-01-4 | Vinyl Chloride | | 10 |
| 75-00-3 | Chloroethane | | 16 |
| 75-09-2 | Methylene Chloride | | 19 |
| 67-64-1 | Acetone | | 18 |
| 75-15-0 | Carbon Disulfide | | 15 |
| 75-35-4 | 1,1-Dichloroethene | | 145 |
| 75-34-3 | 1,1-Dichloroethane | | 15 |
| 540-59-0 | 1,2-Dichloroethene (total) | | 13 |
| 67-66-3 | Chloroform | | 15 |
| 107-06-2 | 1,2-Dichloroethane | | 15 |
| 78-93-3 | 2-Butanone | | 110 |
| 71-55-6 | 1,1,1-Trichloroethane | | 15 |
| 56-23-5 | Carbon Tetrachloride | | 15 |
| 108-05-4 | Vinyl Acetate | | 110 |
| 75-27-4 | Bromodichloromethane | | 15 |
| 78-87-5 | 1,2-Dichloropropane | | 15 |
| 10061-01-5 | cis-1,3-Dichloropropane | | 15 |
| 79-01-6 | Trichloroethene | | 143 |
| 124-48-1 | Dibromochloromethane | | 15 |
| 79-00-5 | 1,1,2-Trichloroethane | | 15 |
| 71-43-2 | Benzene | | 147 |
| 10061-02-6 | trans-1,3-Dichloropropane | | 15 |
| 75-25-2 | Bromoform | | 15 |
| 108-10-1 | 4-Methyl-2-Pentanone | | 110 |
| 591-78-6 | 2-Hexanone | | 110 |
| 127-18-4 | Tetrachloroethene | | 15 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | | 15 |
| 108-88-3 | Toluene | | 142 |
| 108-90-7 | Chlorobenzene | | 145 |
| 100-41-4 | Ethylbenzene | | 11 |
| 100-42-5 | Styrene | | 15 |
| 1330-20-7 | Xylene (total) | | 15 |

TOTAL ION CHROMATOGRAM



Data File: >D2625::SS

Quant Output File: ^D2625::AQ

Name: A5572MS

Misc: CA5572US,QU70445,L:M4,5,,

Id File: ID0310::SS

Title: PP/VOA, IFB, XVDA13, XVDA9

Last Calibration: 910114 11:09

Operator ID: RK2225

Quant Time: 910115 19:15

Injected at: 910115 18:36

Operator ID: RK2225
 Output File: ^D2625::AQ
 Data File: >D2625::SS
 Name: A5572MS
 Misc: CA5572US,QU70445,L:M4,5,,

Quant Rev: 7 Quant Time: 910115 19:17
 Injected at: 910115 18:36
 Dilution Factor: 1.00000

ID File: ID0310::SS
 Title: PP/UDA, IFB, XVUA13, XVUA9
 Last Calibration: 910114 11:09

| Compound | R.T. | Scan# | Area | Conc | Units | q |
|----------------------------------|-------|-------|--------|-------------------|-------|-----|
| 1) *Bromochloromethane | 11.40 | 261 | 66944 | 250.00 | NG | 93 |
| 6) Chloroethane | 5.47 | 108 | 4485 | 30.15 | NG | 86 |
| 7) Methylene chloride | 7.95 | 172 | 11834 | 97.68 | NG | 98 |
| 9) Acetone | 8.73 | 192 | 6719 | 37.78 | NG | 97 |
| 13) 1,1-Dichloroethylene | 10.98 | 250 | 69435 | 226.31 | NG | 97 |
| 14) 1,1-Dichloroethane | 12.30 | 284 | 11865 | 19.00 | NG | 97 |
| 15) Tetrahydrofuran | 11.79 | 271 | 3741 | 64.65 | NG | 100 |
| 15) Tetrahydrofuran | 12.33 | 285 | 34219 | 637.10 | NG | 100 |
| 16) 1,2-Trans-dichloroethylene | 13.07 | 304 | 3996 | 12.71 | NG | 96 |
| 18) 1,2-Dichloroethane-D4 (SURR) | 14.27 | 335 | 175467 | 281.11 | NG | 91 |
| 21) *1,4-Difluorobenzene | 22.07 | 536 | 376441 | 250.00 | NG | 97 |
| 29) Trichloroethylene | 18.93 | 455 | 131492 | 213.10 | NG | 84 |
| 31) bis(Chloromethyl)ether | 19.47 | 469 | 20749 | 105.37 | NG | 100 |
| 32) Benzene | 19.51 | 470 | 320089 | 236.62 | NG | 97 |
| 37) *Chlorobenzene-d5 | 27.00 | 663 | 314078 | 250.00 | NG | 79 |
| 39) 2-Hexanone | 24.47 | 598 | 3913 | 7.42 | NG | 86 |
| 42) Toluene-D8 (SURR) | 25.79 | 632 | 387294 | 249.77 | NG | 96 |
| 43) Toluene | 25.98 | 637 | 185596 | 212.29 | NG | 97 |
| 44) Chlorobenzene | 27.12 | 666 | 256827 | 224.07 | NG | 98 |
| 45) Ethylbenzene | 29.37 | 724 | 3893 | 7.15 | NG | 85 |
| 46) p-Bromofluorobenzene (SURR) | 32.31 | 800 | 240900 | 247.45 | NG | 85 |

* Compound is ISTD

AP 1/22/91

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

A5599MS

Lab Name: ETCNJ

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.:

Matrix: (soil/water) WATER

Lab Sample ID: CA5599US

Sample wt/vol: 5.0 (g/mL) ML

Lab File ID: JC2215

Level: (low/med) LOW

Date Received: 01/8/91

% Moisture: not dec.

Date Analyzed: 01/19/91

Column: (pack/cap) PACK

Dilution Factor: 1

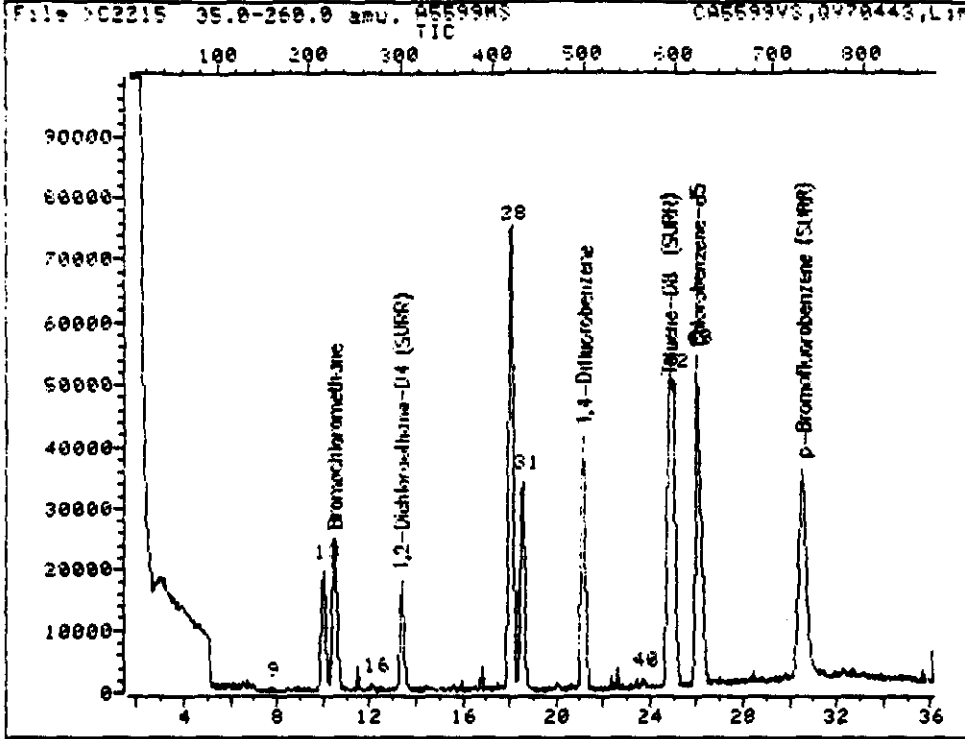
CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/L Q

| | | | |
|------------|----------------------------|-----|----|
| 74-87-3 | Chloromethane | 10 | 1U |
| 74-83-9 | Bromomethane | 10 | 1U |
| 75-01-4 | Vinyl Chloride | 10 | 1U |
| 75-00-3 | Chloroethane | 10 | 1U |
| 75-09-2 | Methylene Chloride | 5 | 1U |
| 67-64-1 | Acetone | 4 | 1J |
| 75-15-0 | Carbon Disulfide | 5 | 1U |
| 75-35-4 | 1,1-Dichloroethane | 50 | 1 |
| 75-34-3 | 1,1-Dichloroethane | 5 | 1U |
| 540-59-0 | 1,2-Dichloroethane (total) | 3 | 1J |
| 67-66-3 | Chloroform | 5 | 1U |
| 107-06-2 | 1,2-Dichloroethane | 5 | 1U |
| 78-93-3 | 2-Butanone | 10 | 1U |
| 71-55-6 | 1,1,1-Trichloroethane | 5 | 1U |
| 56-23-5 | Carbon Tetrachloride | 5 | 1U |
| 108-05-4 | Vinyl Acetate | 10 | 1U |
| 75-27-4 | Bromodichloromethane | 5 | 1U |
| 78-87-5 | 1,2-Dichloropropane | 5 | 1U |
| 10061-01-5 | cis-1,3-Dichloropropene | 5 | 1U |
| 79-01-6 | Trichloroethene | 100 | 1 |
| 124-48-1 | Dibromochloromethane | 5 | 1U |
| 79-00-5 | 1,1,2-Trichloroethane | 5 | 1U |
| 71-43-2 | Benzene | 46 | 1 |
| 10061-02-6 | trans-1,3-Dichloropropene | 5 | 1U |
| 75-25-2 | Bromoform | 5 | 1U |
| 108-10-1 | 4-Methyl-2-Pentanone | 10 | 1U |
| 591-78-6 | 2-Hexanone | 10 | 1U |
| 127-18-4 | Tetrachloroethane | 12 | 1J |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 5 | 1U |
| 108-88-3 | Toluene | 57 | 1 |
| 108-90-7 | Chlorobenzene | 9 | 1 |
| 100-41-4 | Ethylbenzene | 5 | 1U |
| 100-42-5 | Styrene | 5 | 1U |
| 1330-20-7 | Xylene (total) | 5 | 1U |

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TOTAL ION CHROMATOGRAM



Data File: >C2215::U1
Name: A5599MS
Misc: CA5599US,QU70443,L:M4,5,,

Quant Output File: >C2215::AQ

Id File: IC1204::SS
Title: IFB, PP/VDA, XUDA13
Last Calibration: 910119 18:15

Operator ID: KB6656
Quant Time: 910119 21:01
Injected at: 910119 20:24

QUANT REPORT

Page 1

Operator ID: KB6656
 Output File: C2215::AQ
 Data File: C2215::U1
 Name: A5599MS
 Misc: CA5599US,QU70443,L:M4,5,,

Quant Rev: 7 Quant Time: 910119 21:01
 Injected at: 910119 20:24
 Dilution Factor: 1.00000

ID File: IC1204::SS
 Title: IFB, PP/VOA, XVOA13
 Last Calibration: 910119 18:15

| Compound | R.T. | Scan# | Area | Conc | Units | |
|----------------------------------|-------|-------|--------|------------------|-------|-----|
| 1) *Bromochloromethane | 10.47 | 229 | 50131 | 250.00 | NG | 92 |
| 9) Acetone | 7.79 | 160 | 2820 | 21.17 | NG | 86 |
| 13) 1,1-Dichloroethylene | 10.00 | 217 | 49741 | 248.82 | NG | 93 |
| 16) 1,2-Trans-dichloroethylene | 12.17 | 271 | 2883 | 12.67 | NG | 91 |
| 18) 1,2-Dichloroethane-D4 (SURR) | 13.37 | 302 | 78777 | 238.95 | NG | 93 |
| 20) *1,4-Difluorobenzene | 21.15 | 501 | 218075 | 250.00 | NG | 91 |
| 28) Trichloroethylene | 18.01 | 420 | 177350 | 506.36 | NG | 34 |
| 30) bis(Chloromethyl)ether | 18.52 | 433 | 11579 | 92.91 | NG | 100 |
| 31) Benzene | 18.55 | 434 | 174995 | 227.79 | NG | 95 |
| 36) *Chlorobenzene-d5 | 26.00 | 626 | 148069 | 250.00 | NG | 94 |
| 40) Tetrachloroethylene | 23.71 | 567 | 2656 | 8.77 | NG | 93 |
| 41) Toluene-D8 (SURR) | 24.80 | 595 | 224155 | 262.87 | NG | 89 |
| 42) Toluene | 24.99 | 600 | 121861 | 284.67 | NG | 74 |
| 43) Chlorobenzene | 26.00 | 626 | 27176 | 47.16 | NG | 95 |
| 45) p-Bromofluorobenzene (SURR) | 30.54 | 735 | 122370 | 293.11 | NG | 83 |

* Compound is ISTD

AP 1/25/1

313

312-07-
3/5/91

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

1A9572MSD

Lab Name: ETC Corp.

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.:

Matrix: (soil/water) WATER

Lab Sample ID: CA9572VF

Sample wt/vol: 5.0 (g/mL) ML

Lab File ID: >D2626

Level: (low/med) LOW

Date Received: 1/5/91

% Moisture: not dec.

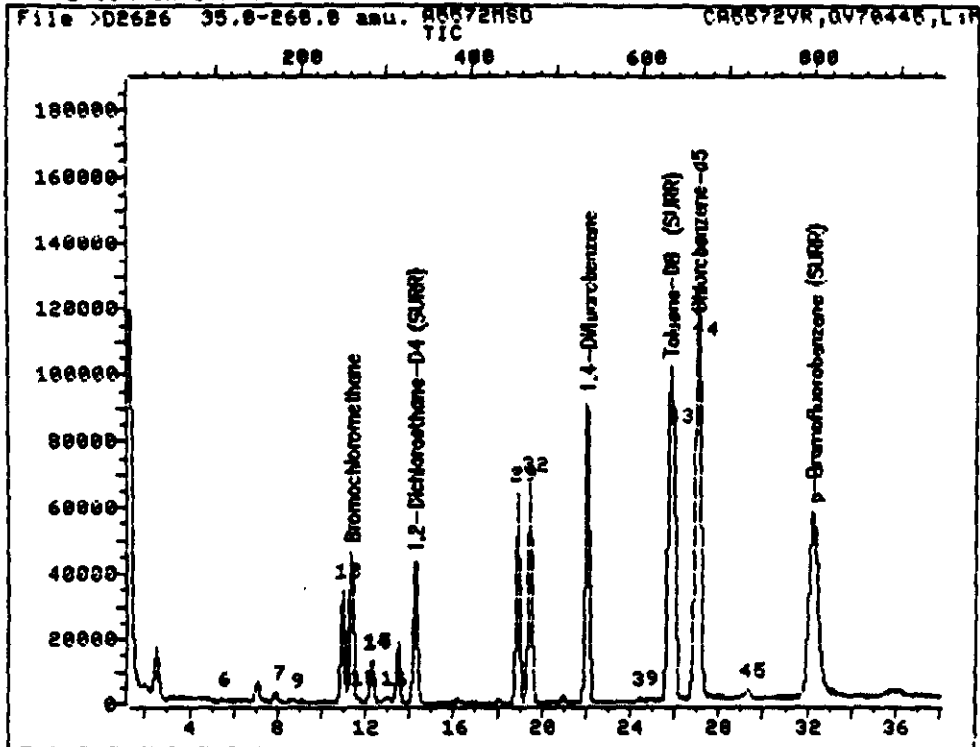
Date Analyzed: 01/15/91

Column: (pack/cap) PACK

Dilution Factor: 1

| CAS NO. | COMPOUND | CONCENTRATION UNITS: (ug/L or ug/Kg) | UG/L | U |
|------------|----------------------------|---|------|----|
| 74-87-3 | Chloromethane | | 10 | 10 |
| 74-83-9 | Bromomethane | | 10 | 10 |
| 75-01-4 | Vinyl Chloride | | 10 | 10 |
| 75-00-3 | Chloroethane | | 16 | 13 |
| 75-09-2 | Methylene Chloride | | 12 | 1 |
| 67-64-1 | Acetone | | 15 | 13 |
| 75-15-0 | Carbon Disulfide | | 15 | 10 |
| 75-35-4 | 1,1-Dichloroethene | | 43 | 1 |
| 75-34-3 | 1,1-Dichloroethane | | 14 | 13 |
| 540-59-0 | 1,2-Dichloroethene (total) | | 13 | 13 |
| 67-66-3 | Chloroform | | 15 | 10 |
| 107-06-2 | 1,2-Dichloroethane | | 15 | 10 |
| 78-93-3 | 2-Butanone | | 10 | 10 |
| 71-55-6 | 1,1,1-Trichloroethane | | 15 | 10 |
| 56-23-5 | Carbon Tetrachloride | | 15 | 10 |
| 108-05-4 | Vinyl Acetate | | 10 | 10 |
| 75-27-4 | Bromodichloromethane | | 15 | 10 |
| 78-87-5 | 1,2-Dichloropropane | | 15 | 10 |
| 10061-01-5 | cis-1,3-Dichloropropene | | 15 | 10 |
| 79-01-6 | Trichloroethene | | 39 | 1 |
| 124-48-1 | Dibromochloromethane | | 15 | 10 |
| 79-00-5 | 1,1,2-Trichloroethane | | 15 | 10 |
| 71-43-2 | Benzene | | 44 | 1 |
| 10061-02-6 | trans-1,3-Dichloropropene | | 15 | 10 |
| 75-25-2 | Bromoform | | 15 | 10 |
| 108-10-1 | 4-Methyl-2-Pentanone | | 10 | 10 |
| 591-78-6 | 2-Hexanone | | 10 | 10 |
| 127-18-4 | Tetrachloroethene | | 15 | 10 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | | 15 | 10 |
| 108-88-3 | Toluene | | 40 | 1 |
| 108-90-7 | Chlorobenzene | | 42 | 1 |
| 100-41-4 | Ethylbenzene | | 12 | 13 |
| 100-42-5 | Styrene | | 15 | 10 |
| 1330-20-7 | Xylene (total) | | 15 | 10 |

TOTAL ION CHROMATOGRAM



Date File: >D2626::SS

Quant Output File: ^D2626::AQ

Name: A5572MSD

Misc: CA5572VR,QU70445,L:M4,5,,

Id File: ID0310::SS

Title: PP/VOA, IFB, XVOA13, XVOA9

Last Calibration: 910114 11:09

Operator ID: RK2225

Quant Time: 910115 20:01

Injected at: 910115 19:22

QUANT REPORT

Operator ID: RK2225
 Output File: ^D2626::AQ
 Data File: >D2626::SS
 Name: A5572MSD
 Misc: CA5572UR,QU70445,L:M4,5,,

Quant Rev: 7 Quant Time: 910115 20:01
 Injected at: 910115 19:22
 Dilution Factor: 1.00000

ID File: ID0310::SS
 Title: PP/VDA, IFB, XVUA13, XVU0A9
 Last Calibration: 910114 11:09

| | Compound | R.T. | Scan# | Area | Conc | Units | q |
|-----|------------------------------|-------|-------|--------|------------------|---------------|-----|
| 1) | *Bromochloromethane | 11.39 | 260 | 70226 | 250.00 | NG | 97 |
| 6) | Chloroethane | 5.45 | 107 | 4994 | 32.00 | NG | 94 |
| 7) | Methylene chloride | 7.94 | 171 | 8023 | 61.84 | NG | 93 |
| 9) | Acetone | 8.75 | 192 | 4219 | 22.61 | NG | 95 |
| 13) | 1,1-Dichloroethylene | 10.96 | 249 | 68782 | 213.71 | NG | 91 |
| 14) | 1,1-Dichloroethane | 12.28 | 283 | 12733 | 19.43 | NG | 95 |
| 15) | Tetrahydrofuran | 11.74 | 269 | 3304 | 58.64 | NG | 100 |
| 15) | Tetrahydrofuran | 12.52 | 284 | 38470 | 682.78 | NG | 100 |
| 16) | 1,2-Trans-dichloroethylene | 13.09 | 304 | 4368 | 13.24 | NG | 89 |
| 18) | 1,2-Dichloroethane-D4 (SURR) | 14.26 | 334 | 209226 | 319.53 | NG | 94 |
| 21) | *1,4-Difluorobenzene | 22.05 | 535 | 414303 | 250.00 | NG | 98 |
| 29) | Trichloroethylene | 18.95 | 455 | 131783 | 194.05 | NG | 93 |
| 31) | bis(Chloromethyl)ether | 19.49 | 469 | 21022 | 97.00 | NG | 100 |
| 32) | Benzene | 19.49 | 469 | 328017 | 220.32 | NG | 94 |
| 37) | *Chlorobenzene-d5 | 26.98 | 662 | 344088 | 250.00 | NG | 79 |
| 39) | 2-Hexanone | 24.49 | 598 | 5221 | 9.04 | NG | 71 |
| 42) | Toluene-D8 (SURR) | 25.77 | 631 | 426102 | 250.83 | NG | 97 |
| 43) | Toluene | 25.97 | 636 | 191744 | 200.20 | NG | 96 |
| 44) | Chlorobenzene | 27.10 | 665 | 261787 | 208.48 | NG | 98 |
| 45) | Ethylbenzene | 29.35 | 723 | 4713 | 7.90 | NG | 89 |
| 46) | p-Bromofluorobenzene (SURR) | 32.26 | 798 | 258360 | 242.24 | NG | 85 |

* Compound is ISTD

AP 1/22/91

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

A5599MSD

Lab Name: ETCNJ

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.:

Matrix: (soil/water) WATER

Lab Sample ID: CA5599UR

Sample wt/vol: 5.0 (g/mL) ML

Lab File ID: >C2216

Level: (low/med) LOW

Date Received: 01/8/91

% Moisture: not dec.

Date Analyzed: 01/19/91

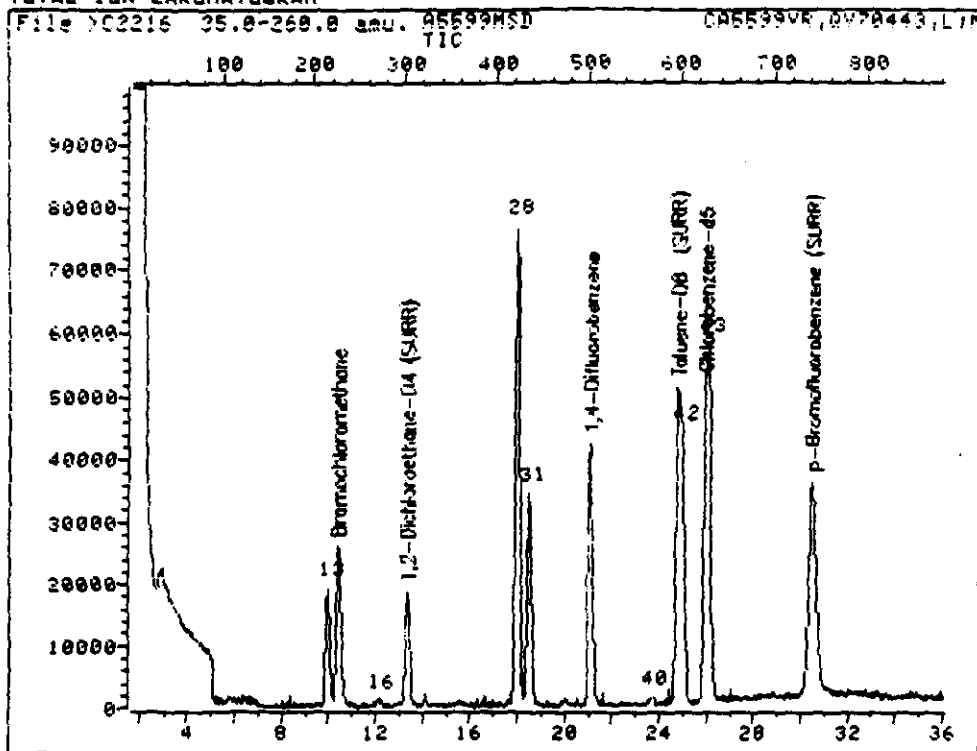
Column: (pack/cap) PACK

Dilution Factor: 1

| CAS NO. | COMPOUND | CONCENTRATION UNITS: | |
|------------|----------------------------|----------------------|------|
| | | (ug/L or ug/Kg) | UG/L |
| 74-87-3 | Chloromethane | 10 | IU |
| 74-83-9 | Bromomethane | 10 | IU |
| 75-01-4 | Vinyl Chloride | 10 | IU |
| 75-00-3 | Chloroethane | 10 | IU |
| 75-09-2 | Methylene Chloride | 5 | IU |
| 67-64-1 | Acetone | 10 | IU |
| 75-15-0 | Carbon Disulfide | 5 | IU |
| 75-35-4 | 1,1-Dichloroethene | 45 | I |
| 75-34-3 | 1,1-Dichloroethane | 5 | IU |
| 540-59-0 | 1,2-Dichloroethene (total) | 12 | IJ |
| 67-66-3 | Chloroform | 5 | IU |
| 107-06-2 | 1,2-Dichloroethane | 5 | IU |
| 78-93-3 | 2-Butanone | 10 | IU |
| 71-55-6 | 1,1,1-Trichloroethane | 5 | IU |
| 56-23-5 | Carbon Tetrachloride | 5 | IU |
| 108-05-4 | Vinyl Acetate | 10 | IU |
| 75-27-4 | Bromodichloromethane | 5 | IU |
| 78-87-5 | 1,2-Dichloropropane | 5 | IU |
| 10061-01-5 | cis-1,3-Dichloropropene | 5 | IU |
| 79-01-6 | Trichloroethene | 100 | I |
| 124-48-1 | Dibromochloromethane | 5 | IU |
| 79-00-5 | 1,1,2-Trichloroethane | 5 | IU |
| 71-43-2 | Benzene | 45 | I |
| 10061-02-6 | trans-1,3-Dichloropropene | 5 | IU |
| 75-25-2 | Bromoform | 5 | IU |
| 108-10-1 | 4-Methyl-2-Pentanone | 10 | IU |
| 591-78-6 | 2-Hexanone | 10 | IU |
| 127-18-4 | Tetrachloroethene | 12 | IJ |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 5 | IU |
| 108-88-3 | Toluene | 65 | I |
| 108-90-7 | Chlorobenzene | 49 | I |
| 100-41-4 | Ethylbenzene | 5 | IU |
| 100-42-5 | Styrene | 5 | IU |
| 1330-20-7 | Xylene (total) | 5 | IU |

318

TOTAL ION CHROMATOGRAM



Data File: >C2216::U1
Name: A5599MSD
Misc: CA5599UR, QV70443, L:M4,5,,

Quant Output File: ^C2216::AQ

Id File: IC1204::SS
Title: IFB, PP/VOA, XVOA13
Last Calibration: 910119 18:15

Operator ID: KB6656
Quant Time: 910119 21:49
Injected at: 910119 21:12

QUANT REPORT

Page 1

Operator ID: KB6656
 Output File: C2216::AQ
 Data File: C2216::U1
 Name: A5599MSD
 Misc: CA5599UR,QU70443,L:M4,5,,

Quant Rev: 7 Quant Time: 910119 21:49
 Injected at: 910119 21:12
 Dilution Factor: 1.00000

ID File: IC1204::SS
 Title: IFB, PP/UDA, XUQA13
 Last Calibration: 910119 18:15

| | Compound | R.T. | Scan# | Area | Conc | Units | g |
|-----|------------------------------|-------|-------|--------|------------------|-------|-----|
| 1) | *Bromochloromethane | 10.42 | 226 | 52788 | 250.00 | NG | 97 |
| 13) | 1,1-Dichloroethylene | 9.95 | 214 | 47802 | 227.08 | NG | 94 |
| 16) | 1,2-Trans-dichloroethylene | 12.12 | 270 | 2864 | 11.95 | NG | 39 |
| 18) | 1,2-Dichloroethane-D4 (SURR) | 13.36 | 302 | 81665 | 235.24 | NG | 82 |
| 20) | *1,4-Difluorobenzene | 21.11 | 502 | 220332 | 250.00 | NG | 91 |
| 28) | Trichloroethylene | 18.01 | 422 | 176505 | 498.79 | NG | 87 |
| 30) | bis(Chloromethyl)ether | 18.52 | 435 | 12006 | 25.25 | NG | 100 |
| 31) | Benzene | 18.52 | 435 | 176266 | 227.10 | NG | 97 |
| 36) | *Chlorobenzene-d5 | 25.96 | 627 | 122464 | 250.00 | NG | 96 |
| 40) | Tetrachloroethylene | 23.71 | 569 | 2760 | 11.02 | NG | 88 |
| 41) | Toluene-D8 (SURR) | 24.80 | 597 | 225102 | 319.18 | NG | 93 |
| 42) | Toluene | 24.99 | 602 | 115299 | 325.65 | NG | 96 |
| 43) | Chlorobenzene | 26.12 | 628 | 117599 | 246.74 | NG | 98 |
| 45) | p-Bromofluorobenzene (SURR) | 30.50 | 741 | 124202 | 359.70 | NG | 81 |

* Compound is ISTD

AP 1/25/91

ETC

CHAIN OF CUSTODY

CHAIN OF CUSTODY FORM (CC1) ORIGINAL Date Sealed 9/11/20 By: _____

Company: WASTE MANAGEMENT, INC. Attn.: DEE BRNCICH

Facility/Site: TOWN OF DUNN Phone: () -

Address: DANE COUNTY, WI

SAMPLE IDENTIFICATION

Facility: 409 Facility/Site Code (Optional Sample Point Descriptions): _____

Sample Point: W-3 GWP 216 9/10/08 1120 _____
Source Code (from below) Your Sample Point ID (left justify) Start Date (YY/MM/DD) Start Time (2400 hr clock) Elapsed Hours (composite)

Source Codes
 Well (W) Outfall (O) Bottom Sediment (B) Surface Impoundment (I) Leachate Collection Sys. (C) Other (X)
 Soil (S) River/Stream (R) Generation Point (G) Treatment Facility (T) Lake/Ocean (L) Specify _____

SHUTTLE CONTENTS

| BOTTLE | | | | ANALYSIS | SAMPLER | | LAB |
|--------|------|------|----------|---------------|-------------|--------------|--------------|
| No | Type | Size | Preserv. | | Filt. (Y/N) | Observations | Observations |
| 2 | UDA | 40 | HCL | CLP/VDLATILES | N | | ✓ |
| 1 | US | 40 | HCL | UDA SCREEN | N | | ✓ |
| 1 | MET | 1000 | HNO3 | CLP/METALS | ✓ | | ✓ 9/6 full |
| 1 | CUNU | 125 | NONE | CHLORIDE | N | | ✓ |
| 1 | FL | 125 | NONE | FLUORIDE | N | | ✓ |
| | | | | | | | |
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CHAIN OF CUSTODY CHRONICLE

1. Shuttle Opened By: (print) John G. Rudd Date: 11/27/90 Time: 1040 am
 Signature: John G. Rudd Seal #: 0182105 Intact: ✓

I have received these materials in good condition from the above person.
 2. Name: _____ Signature: _____
 Date: _____ Time: _____ Remarks: _____

I have received these materials in good condition from the above person.
 3. Name: _____ Signature: _____
 Date: _____ Time: _____ Remarks: 323

4. Shuttle Sealed By: (print) Michael M. Alexander Date: 1-8-91 Time: 2:00 PM
 Signature: Michael M. Alexander Seal #: 182140 Intact: ✓

LAB USE ONLY Opened By: M. Alexander Date: 1/9/91 Time: 9:30
 SHUTTLE # 524 TEMP. °C 40 SEAL # 182140 COND. OK



FIELD PARAMETER FORM (CC2)

Form 0002
Sample Management
12/89

ETC JOB # CA5568
Sample Point W1 JIGHPZ6
Source Code Sample Point I.D.

FIELD PROCEDURES

PURGE DATE (YY MM DD)
9/12/08

START PURGE (2400 Hr Clock)
1100

ELAPSED HRS
103

WATER VOL. IN CASING (Gallons)
1114

VOLUME PURGED (Gallons)
156

SAMPLING METHOD:

Sampler Type A-Submersible Pump D-Dipper/Bottle
 B-ISCO E-Bailer X-Other _____ (SPECIFY OTHER)
 C-Bladder Pump F-Scoop/Shovel
 Sampler Material A-Teflon C-PVC X-Other _____ (SPECIFY OTHER)
 B-Metal D-Plastic
 Tubing Material A-Teflon C-Polyethylene X-Other _____ (SPECIFY OTHER)
 B-Tygon D-Silicon
 Sample Compositing Y/N

Procedure/Proportions

FIELD MEASUREMENTS

Well Elevation (ft/msl) 1915.14 Well Depth (ft) 237.8
 Depth to Ground water (ft) 14.18 Sample Depth (non-well) (ft) _____
 Groundwater Elevation (ft msl) 1920.96

| | | | | | | |
|-----|------------------------------|-----|---|-----------------------------|------------------|-----------------|
| 1st | ph <u>7.39</u> (STD) | 1st | spec. cond. <u>1382</u> um/cm at 25°C | <u>GA</u> (other parameter) | <u>-74</u> value | <u>ML</u> units |
| 2nd | ph <u>7.33</u> (STD) | 2nd | spec. cond. <u>1129.8</u> um/cm at 25°C | (other parameter) | <u>-79</u> value | units |
| 3rd | ph <u>7.72</u> (STD) | 3rd | spec. cond. <u>1128.7</u> um/cm at 25°C | (other parameter) | <u>-83</u> value | units |
| 4th | ph <u>7.34</u> (STD) | 4th | spec. cond. <u>129.1</u> um/cm at 25°C | (other parameter) | <u>-82</u> value | units |
| | Sample Temp <u>10.9</u> (°C) | | Turbidity _____ NTU | | | |

FIELD COMMENTS

Sample Appearance: olive brown, odor like LW's
 Weather Conditions: cloudy, 15°E
 Other: _____

FILTERING: Use Chain of Custody (CC1) to indicate which bottles were filtered

Sampler: Michael M Alexander (Print) Employer: PELA 324

I certify that sampling procedures were in accordance with applicable EPA state and corporate protocols.

1-8-91 (Date) Michael M. Alexander (Signature)

Company: Wmz Attn: Dan Green
 Facility/Site: Town of Sunn (405) Phone: _____
 Address: _____

SAMPLE IDENTIFICATION

Facility: 4115 2 (Optional Sample Point Descriptions)
 Sample Point: W-364PZ16 9/10/1018 1120
Source Code (from below) Your Sample Point ID (left justify) Start Date (YY/MM/DD) Start Time (2400 hr. clock) Elapsed Hours (composite)
 Source Codes
 We: (W) Outfall (O) Bottom Sediment (B) Surface Impoundment (I) Leachate Collection Sys (C) Other (X)
 (S) River/Stream (R) Generation Point (G) Treatment Facility (T) Lake/Ocean (L) Specify _____

SHUTTLE CONTENTS

| BOTTLE | | | | ANALYSIS | SAMPLER | | LAB |
|--------|------|------|----------|-------------------------------------|------------|--------------|--------------|
| No | Type | Size | Preserv. | | FILL (Y/N) | Observations | Observations |
| 1 | P | 250 | Ø | TDS, Bicarbonate, Carbonate Sulfate | ✓ | | full, brown |
| | | | | | | | |
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CHAIN OF CUSTODY CHRONICLE

1 Shuttle Opened By: (print) _____ Date: _____ Time: _____
 Signature: _____ Seal #: _____ Intact: _____
 I have received these materials in good condition from the above person.
 2 Name: _____ Signature: _____
 Date: _____ Time: _____ Remarks: _____
 I have received these materials in good condition from the above person.
 3 Name: _____ Signature: _____
 Date: _____ Time: _____ Remarks: _____
 4 Shuttle Sealed By: (print) Michael M Alexander Date: 1-8-91 Time: 2:00 PM
 Signature: [Signature] Seal #: 1412-1413 Intact: ✓
 LAB USE ONLY Opened By: Kelly Schell Date: 1-9-91 Time: 14:00
 SHUTTLE # _____ TEMP. °C 40 SEAL # 1412-1413 COND. Intact



FIELD PARAMETER FORM (CC2)

Form 0002
Sample Management
12/89

ETC JOB # CR5568
Sample Point W136WPP216
Source Code _____ Sample Point I.D. _____

FIELD PROCEDURES

PURGE DATE (YY MM DD) 9/10/08

START PURGE (2400 Hr Clock) 1100

ELAPSED HRS 103

WATER VOL IN CASING (Gallons) 11/14

VOLUME PURGED (Gallons) 5.16

SAMPLING METHOD:

Sampler Type E A-Submersible Pump D-Dipper/Bottle
B-ISCO E-Bailer X-Other _____ (SPECIFY OTHER)
C-Bladder Pump F-Scoop/Shovel
Sampler Material A A-Teflon C-PVC X-Other _____ (SPECIFY OTHER)
B-Metal D-Plastic
Tubing Material A-Teflon C-Polyethylene X-Other _____ (SPECIFY OTHER)
B-Tygon D-Silicon
Sample Compositing Y/N N

Procedure/Proportions

FIELD MEASUREMENTS

Well Elevation (ft/msl) 1935.14 Well Depth (ft) 122.77
Depth to Ground water (ft) 14.18 Sample Depth (non-well) (ft)
Groundwater Elevation (ft msl) 1920.96

| | | | | | | | |
|-----|------------------------------|-----|---------------------------|---------------|-----------------------------|------------------|-----------------|
| 1st | <u>7.39</u> (STD) ph | 1st | <u>112.12</u> spec. cond. | um/cm at 25°C | <u>EL</u> (other parameter) | <u>174</u> value | <u>ml</u> units |
| 2nd | <u>7.53</u> (STD) ph | 2nd | <u>112.98</u> spec. cond. | um/cm at 25°C | (other parameter) | <u>179</u> value | units |
| 3rd | <u>7.32</u> (STD) ph | 3rd | <u>112.87</u> spec. cond. | um/cm at 25°C | (other parameter) | <u>183</u> value | units |
| 4th | <u>7.34</u> (STD) ph | 4th | <u>112.91</u> spec. cond. | um/cm at 25°C | (other parameter) | <u>182</u> value | units |
| | <u>10.9</u> (°C) Sample Temp | | <u> </u> NTU | Turbidity | | | |

FIELD COMMENTS

Sample Appearance: olive brown, odor like L610
Weather Conditions: cloudy, 15°F
Other _____

FILTERING: Use Chain of Custody (CC1) to indicate which bottles were filtered

Sampler: Michael M. Alexander Employer: PEFA 326

I certify that sampling procedures were in accordance with applicable EPA state and corporate protocols.

Date 1-8-91 Signature Michael M. Alexander

CHAIN OF CUSTODY FORM (CC1) ORIGINAL Date Sealed 90/11/20 By: _____

Company: WASTE MANAGEMENT, INC. Attn.: DEE BRNICH

Facility/Site: TOWN OF DUNN Phone: () -

Address: DANE COUNTY, WI

SAMPLE IDENTIFICATION

Facility: 409 Facility/Site Code (Optional Sample Point Descriptions)

Sample Point: W-354218 9/10/08 12:51 Source Code (from below) Your Sample Point ID (left justify) Start Date (YY/MM/DD) Start Time (2400 hr. clock)Elapsed Hours (composite)

Source Codes: 3GWP28 ma 1/10/91
 Well (W) Outfall (O) Bottom Sediment (B) Surface Impoundment (I) Leachate Collection Sys. (C) Other (X)
 Soil (S) River/Stream (R) Generation Point (G) Treatment Facility (T) Lake/Ocean (L) Specify _____

SHUTTLE CONTENTS

| BOTTLE | | | | ANALYSIS | SAMPLER | | LAB |
|--------|------|------|----------|--------------------|------------|--------------|--------------|
| No | Type | Size | Preserv. | | FIL. (Y/N) | Observations | Observations |
| 2 | VDA | 40 | HCL | CLP/VOLATILES | N | | ✓ |
| 1 | US | 40 | HCL | VDA SCREEN | N | | ✓ |
| 2 | MET | 1000 | HNO3 | CLP/METALS | Y | | ✓ 5/6 full |
| 1 | CONC | 125 | NONE | CHLORIDE | N | | ✓ |
| 1 | FL | 125 | NONE | FLUORIDE | N | | ✓ |
| 6 | VDA | 40 | HCL | VOLATILES (MS/MSD) | N | | ✓ |
| | | | | | | | |
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CHAIN OF CUSTODY CHRONICLE

1 Shuttle Opened By: (print) John G. Rudd Date: 11/27/90 Time: 12:45
 Signature: John G. Rudd Seal #: 182141 Intact: ✓

I have received these materials in good condition from the above person.
 2 Name: _____ Signature: _____
 Date: _____ Time: _____ Remarks: _____

I have received these materials in good condition from the above person.
 3 Name: _____ Signature: _____
 Date: _____ Time: _____ Remarks: 327

4 Shuttle Sealed By: (print) Michael M. Alexander Date: 1-8-91 Time: 2:00pm
 Signature: Michael M. Alexander Seal #: 182140 Intact: ✓

LAB USE ONLY Opened By: D. S. Slopian Date: 1/9/91 Time: 9:50
 SHUTTLE # 524 TEMP. °C 40 SEAL # 182140 COND. Subst

CHAIN OF CUSTODY FORM (CC1) ORIGINAL Date Sealed 11-20-90 By: KTS

Company: Wm Attn: Don Brun
 Facility/Site: Town of Dunn (405) Phone: _____
 Address: _____

SAMPLE IDENTIFICATION

Facility: 1410 15 18
 Facility/Site Code: _____ Optional Sample Point Descriptions: _____
 Sample Point: W-251W-2-8 9110108
 Source Code (from below): 3C-6PZE Start Date (YY-MM-DD): 1/22/91 Start Time (2400 hr clock): 12+191 Elapsed Hours (composite): _____
 Source Codes: _____
 Well: (W) Outfall (O) Bottom Sediment (B) Surface Impoundment (I) Leachate Collection Sys. (C) Other (X)
 Site: (S) River/Stream (R) Generation Point (G) Treatment Facility (T) Lake/Ocean (L) Specify _____

SHUTTLE CONTENTS

| BOTTLE | | | | ANALYSIS | SAMPLER | | LAB |
|--------|------|------|----------|-------------------------------------|------------|--------------|--------------|
| No | Type | Size | Preserv. | | FIL. (Y/N) | Observations | Observations |
| 1 | P | 250 | Ø | TDS, Bicarbonate, Carbonate Sulfate | N | | full, clear |
| | | | | | | | |
| | | | | | | | |
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CHAIN OF CUSTODY CHRONICLE

1. Shuttle Opened By: (print) Michael M. Alexander Date: 1-8-91 Time: 2:00 PM
 Signature: Michael M. Alexander Seal #: 1412-1413 Intact: ✓
 I have received these materials in good condition from the above person.
 2. Name: _____ Signature: _____
 Date: _____ Time: _____ Remarks: _____
 I have received these materials in good condition from the above person.
 3. Name: _____ Signature: _____
 Date: _____ Time: _____ Remarks: _____
 Shuttle Sealed By: (print) Michael M. Alexander Date: 1-8-91 Time: 2:00 PM
 Signature: Michael M. Alexander Seal #: 1412-1413 Intact: ✓

LAB USE ONLY Opened By: Kelly Schell Date: 1-9-91 Time: 14:00 327.1
 SHUTTLE # _____ TEMP. °C 40 SEAL # 1412-1413 COND. Intact ma 2/12/91

~~ETC~~

END OF PAGE INSERTION

327.2

ma 2/12/91



FIELD PARAMETER FORM (CC2)

Form 0002
Sample Management
12/89

182140

ETC JOB # CA5584

Sample Point 14 JGW28

Source Code Sample Point I.D.

FIELD PROCEDURES

19/01/08
PURGE DATE
(YY MM DD)

112316
START PURGE
(2400 Hr Clock)

025
ELAPSED HRS

121017
WATER VOL. IN CASING
(Gallons)

1830
VOLUME PURGED
(Gallons)

SAMPLING METHOD:

Sampler Type A-Submersible Pump D-Dipper/Bottle
 B-ISCO E-Bailer
 C-Bladder Pump F-Scoop/Shovel X-Other _____ (SPECIFY OTHER)

Sampler Material A-Teflon C-PVC
 B-Metal D-Plastic X-Other _____ (SPECIFY OTHER)

Tubing Material A-Teflon C-Polyethylene
 B-Tygon D-Silicon X-Other _____ (SPECIFY OTHER)

Sample Compositd Y/N N

Procedure/Proportions

FIELD MEASUREMENTS

Well Elevation (ft/msl) 1930.18 Well Depth (ft) 1226.3

Depth to Ground water (ft) 199.1 Sample Depth (non-well) (ft) _____

Groundwater Elevation (ft msl) 1920.27

| | | | |
|---|---|-------------------------------------|--|
| 1st <u>17.49</u> (STD) <small>ph</small> | 1st _____ <small>spec. cond.</small> | _____ <small>um/cm at 25 °C</small> | _____ <small>(other parameter)</small> |
| 2nd <u>17.39</u> (STD) <small>ph</small> | 2nd <u>172.7</u> <small>spec. cond.</small> | _____ <small>um/cm at 25 °C</small> | _____ <small>(other parameter)</small> |
| 3rd <u>17.41</u> (STD) <small>ph</small> | 3rd <u>172.7</u> <small>spec. cond.</small> | _____ <small>um/cm at 25 °C</small> | _____ <small>(other parameter)</small> |
| 4th <u>17.77</u> (STD) <small>ph</small> | 4th <u>167.8</u> <small>spec. cond.</small> | _____ <small>um/cm at 25 °C</small> | _____ <small>(other parameter)</small> |
| <u>19.8</u> (°C) <small>Sample Temp</small> | _____ <small>Turbidity</small> | | |

FIELD COMMENTS

Sample Appearance: dark brownish gray

Weather Conditions: cloudy, 15°F

Other: _____

FILTERING: Use Chain of Custody (CC1) to indicate which bottles were filtered

Sampler: Michael M. Alexander Employer: PEHA 328

I certify that sampling procedures were in accordance with applicable EPA state and corporate protocols.

1-8-91 Michael M. Alexander

(Date) (Signature)



FIELD PARAMETER FORM (CC2)

Form 0002
Sample Management
12/89

ETC JOB # CA55P4

Sample Point W 354P28

Source Code

Sample Point I.D.

FIELD PROCEDURES

9/10/08
PURGE DATE
(YY MM DD)

1236
START PURGE
(2400 Hr Clock)

025
ELAPSED HRS

1207
WATER VOL IN CASING
(Gallons)

870
VOLUME PURGED
(Gallons)

SAMPLING METHOD:

Sampler Type A-Submersible Pump
 B-ISCO
 C-Bladder Pump
 D-Dipper/Bottle
 E-Bailer
 F-Scoop/Shovel
 X-Other _____ (SPECIFY OTHER)

Sampler Material A-Teflon
 B-Metal
 C-PVC
 D-Plastic
 X-Other _____ (SPECIFY OTHER)

Tubing Material A-Teflon
 B-Tygon
 C-Polyethylene
 D-Silicon
 X-Other _____ (SPECIFY OTHER)

Sample Composed Y/N

Procedure/Proportions

FIELD MEASUREMENTS

Well Elevation (ft/msl) 1930.18 Well Depth (ft) 122.67
 Depth to Ground water (ft) 19.91 Sample Depth (non-well) (ft) _____
 Groundwater Elevation (ft msl) 1920.27

1st 7.49 (STD) 1st 7.17 spec. cond. um/cm at 25°C EH 450 W
 2nd 7.79 (STD) 2nd 7.27 spec. cond. um/cm at 25°C _____ 443 _____
 3rd 7.41 (STD) 3rd 7.27 spec. cond. um/cm at 25°C _____ 432 _____
 4th 7.77 (STD) 4th 6.78 spec. cond. um/cm at 25°C _____ 436 _____
19.0 (°C) Sample Temp _____ NTU Turbidity

FIELD COMMENTS

Sample Appearance: _____
 Weather Conditions: _____
 Other: _____

FILTERING: Use Chain of Custody (CC1) to indicate which bottles were filtered

Sampler: Michael M. Alexander (Print) Employer: PELA 329

I certify that sampling procedures were in accordance with applicable EPA state and corporate protocols.

1-8-91 Michael M. Alexander
 (Date) (Signature)

CHAIN OF CUSTODY FORM (CC1) ORIGINAL Date Sealed 90/11/21 By: _____

Company: WASTE MANAGEMENT, INC. Attn.: DEE BRNCICH
 Facility/Site: TOWN OF DUNN Phone: () -
 Address: , DANE COUNTY, WI

SAMPLE IDENTIFICATION

Facility: 405 (Facility/Site Code) _____ (Optional Sample Point Descriptions)
 Sample Point: M-364PZ/117 9110107 0929
Source Code (from below) Your Sample Point ID (left justify) Start Date (YY/MM/DD) Start Time (2400 hr. clock)Elapsed Hours (composite)

Source Codes: Well (W) Outfall (O) Bottom Sediment (B) Surface Impoundment (I) Leachate Collection Sys. (C) Other (X)
 Soil (S) River/Stream (R) Generation Point (G) Treatment Facility (T) Lake/Ocean (L) Specify _____

SHUTTLE CONTENTS

| BOTTLE | | | | ANALYSIS | SAMPLER | | LAB |
|--------|------|------|----------|---------------|------------|--------------|----------------|
| No | Type | Size | Preserv. | | Fill (Y/N) | Observations | Observations |
| 2 | VOA | 40 | HCL | CLP/VOLATILES | ✓ | | ✓ small bubble |
| 1 | MET | 1000 | HNO3 | CLP/METALS | ✓ | | ✓ |
| 1 | CONU | 125 | NONE | CHLORIDE | ✓ | | ✓ |
| 1 | FL | 125 | NONE | FLUORIDE | ✓ | | ✓ |
| 1 | VS | 40 | HCL | VOA SCREEN | ✓ | | ✓ small bubble |
| 2 | VTB | 40 | GC/MS | VOLATILES | ✓ | | ✓ ↓ |

CHAIN OF CUSTODY CHRONICLE

1. Shuttle Opened By: (print) John G. Rupp Date: 11/27/90 Time: 12:15
 Signature: John G. Rupp Seal #: 182175 Intact: ✓
 I have received these materials in good condition from the above person.
 Name: _____ Signature: _____
 Date: _____ Time: _____ Remarks: _____
 I have received these materials in good condition from the above person.
 Name: _____ Signature: _____
 Date: _____ Time: _____ Remarks: 330
 4. Shuttle Sealed By: (print) Michael M. Alexander Date: 1-7-91 Time: 12:45
 Signature: Michael M. Alexander Seal #: 182174 Intact: ✓
 LAB USE ONLY Opened By: H. Schaller Date: 1/9/91 Time: 9:58
 SHUTTLE # 143 TEMP. °C 6 SEAL # 182174 COND. Intact



FIELD PARAMETER FORM (CC2)

Form 0002
Sample Management
12/89

ETC JOB # 182174 CA5588
Sample Point W 36WPIZIV I
Source Code Sample Point I.D.

FIELD PROCEDURES

9/10/07
PURGE DATE
(YY MM DD)

0815
START PURGE
(2400 Hr Clock)

125
ELAPSED HRS

4.12
WATER VOL. IN CASING
(Gallons)

1650
VOLUME PURGED
(Gallons)

SAMPLING METHOD:

Sampler Type A-Submersible Pump D-Dipper/Bottle
 B-ISCO E-Bailer
 C-Bladder Pump F-Scoop/Shovel X-Other _____ (SPECIFY OTHER)

Sampler Material A-Teflon C-PVC
 B-Metal D-Plastic X-Other _____ (SPECIFY OTHER)

Tubing Material A-Teflon C-Polyethylene
 B-Tygon D-Silicon X-Other _____ (SPECIFY OTHER)

Sample Composed Y N _____
Procedure/Proportions

FIELD MEASUREMENTS

Well Elevation (ft/msl) 939.18 Well Depth (ft) 143.74
 Depth to Ground water (ft) 18.56 Sample Depth (non-well) (ft) _____
 Groundwater Elevation (ft msl) 920.60

| | |
|---|---|
| 1st <u>7.22</u> (STD) <u>1536</u> <u>EL</u> <u>173</u> <u>ml</u> <small>ph spec. cond. (other parameter) value units</small> | 1st <u>1536</u> <u>um/cm</u> <small>at 25 °C</small> |
| 2nd <u>7.28</u> (STD) <u>1507</u> <u>173</u> <u></u> <small>ph spec. cond. (other parameter) value units</small> | 2nd <u>1507</u> <u>um/cm</u> <small>at 25 °C</small> |
| 3rd <u>7.17</u> (STD) <u>1412</u> <u>182</u> <u></u> <small>ph spec. cond. (other parameter) value units</small> | 3rd <u>1412</u> <u>um/cm</u> <small>at 25 °C</small> |
| 4th <u>7.26</u> (STD) <u>1398</u> <u>189</u> <u></u> <small>ph spec. cond. (other parameter) value units</small> | 4th <u>1398</u> <u>um/cm</u> <small>at 25 °C</small> |
| <u>15.8</u> (°C) <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <small>Sample Temp Turbidity NTU</small> | |

FIELD COMMENTS

Sample Appearance: H gray, bad odor like Cbl wells
 Weather Conditions: cloudy, 15° F
 Other: _____

FILTERING: Use Chain of Custody (CC1) to indicate which bottles were filtered

Sampler: Shawn Hawrey (Print) Employer: PELA 331

I certify that sampling procedures were in accordance with applicable EPA state and corporate protocols.

1-7-91 (Date) [Signature] (Signature)

CHAIN OF CUSTODY FORM (CC1) ORIGINAL

Date Sealed 11-20-90 By: ATS

Company: WMT Attn: Don Bunn
 Facility/Site: Town of Dunn (405) Phone: _____
 Address: _____

SAMPLE IDENTIFICATION

Facility: 14105 12 (Optional Sample Point Descriptions)
 Sample Point: 141364/12/1/1 5/10/07 0929
Source Code (from below) Your Sample Point ID (fill justify) Start Date (YY/MM/DD) Start Time (2400 hr. clock) Elapsed Hours (composite)

Source Codes
 Well (W) Outfall (O) Bottom Sediment (B) Surface Impoundment (I) Leachate Collection Sys. (C) Other (X)
 Pit (S) River/Stream (R) Generation Point (G) Treatment Facility (T) Lake/Ocean (L) Specify _____

SHUTTLE CONTENTS

| BOTTLE | | | | ANALYSIS | SAMPLER | | LAB |
|--------|------|------|----------|-------------------------------------|-----------|--------------|--------------|
| No | Type | Size | Preserv. | | FHL (Y/N) | Observations | Observations |
| 1 | P | 250 | Ø | TDS, Bicarbonate, Carbonate Sulfate | ✓ | | full, yellow |
| | | | | | | | |
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CHAIN OF CUSTODY CHRONICLE

1. Shuttle Opened By: (print) Michael M. Alexander Date: 11-20-90 Time: 1:00 PM
 Signature: [Signature] Seal #: _____ Intact: _____

I have received these materials in good condition from the above person.

2. Name: _____ Signature: _____
 Date: _____ Time: _____ Remarks: _____

I have received these materials in good condition from the above person.

3. Name: Michael M. Alexander Signature: [Signature]
 Date: 1-8-91 Time: 1:00 PM Remarks: date should be 1-8-91 ETC

4. Shuttle Sealed By: (print) Michael M. Alexander Date: 1-8-91 Time: 1:00 PM
 Signature: [Signature] Seal #: 1412-1413 Intact: ✓

LAB USE ONLY Opened By: Kelly Schult Date: 1-9-91 Time: 4:00
 SHUTTLE # _____ TEMP. °C 40 SEAL # 1412-1413 COND. Intact



FIELD PARAMETER FORM (CC2)

Form 0002
Sample Management
12/89

1412-1413

ETC JOB # CA5588

Sample Point U361PZ/VT

Source Code Sample Point ID

FIELD PROCEDURES

PURGE DATE (YY MM DD) 9/10/08 START PURGE (2400 Hr Clock) 0815 ELAPSED HRS 125 WATER VOL IN CASING (Gallons) 9.2 VOLUME PURGED (Gallons) 11650

SAMPLING METHOD:

| | | | |
|-------------------|--|--|---|
| Sampler Type | <input checked="" type="checkbox"/> A-Submersible Pump B-ISCO C-Bladder Pump | <input type="checkbox"/> D-Dipper/Bottle E-Bailer F-Scoop/Shovel | X-Other _____ (SPECIFY OTHER: _____) |
| Sampler Material | <input checked="" type="checkbox"/> A-Teflon B-Metal | <input type="checkbox"/> C-PVC D-Plastic | X-Other _____ (SPECIFY OTHER: _____) |
| Tubing Material | <input type="checkbox"/> A-Teflon B-Tygon | <input type="checkbox"/> C-Polyethylene D-Silicon | X-Other _____ (SPECIFY OTHER: _____) |
| Sample Composited | <input type="checkbox"/> Y/N <u>N</u> | | |

Procedure/Proportions

FIELD MEASUREMENTS

| | |
|--|------------------------------------|
| Well Elevation (ft/msl) <u>939.18</u> | Well Depth (ft) <u>193.74</u> |
| Depth to Ground water (ft) <u>178.58</u> | Sample Depth (non-well) (ft) _____ |
| Groundwater Elevation (ft msl) <u>920.60</u> | |

| | | | | |
|---|-----------------------------|-----------------------------|------------------|-----------------|
| 1st <u>7.22</u> (STD) <u>172</u> um/cm at 25 °C | 1st <u>1536</u> spec. cond. | (other parameter) <u>Ep</u> | value <u>173</u> | units <u>uV</u> |
| 2nd <u>7.28</u> (STD) <u>172</u> um/cm at 25 °C | 2nd <u>1517</u> spec. cond. | (other parameter) | value <u>173</u> | units |
| 3rd <u>7.27</u> (STD) <u>172</u> um/cm at 25 °C | 3rd <u>1412</u> spec. cond. | (other parameter) | value <u>182</u> | units |
| 4th <u>7.26</u> (STD) <u>172</u> um/cm at 25 °C | 4th <u>1398</u> spec. cond. | (other parameter) | value <u>189</u> | units |
| <u>58</u> (°C) Sample Temp | <u>NTU</u> Turbidity | | | |

FIELD COMMENTS

Sample Appearance: H. gray, bad odor like LW wells

Weather Conditions: cloudy, 15°

Other: _____

Note on ETC copy 1-7-91 incorrect

FILTERING: Use Chain of Custody (CC1) to indicate which bottles were filtered

Sampler: Shawn Hamroy Employer: PEFA 333

I certify that sampling procedures were in accordance with applicable EPA state and corporate protocols.

1-8-91 Shawn Hamroy
ID# Signature

CHAIN OF CUSTODY FORM (CC1)

ORIGINAL Date Sealed 90/11/21 By: _____

Company: WASTE MANAGEMENT, INC. Attn: DEE BRNCICH
 Facility/Site: TOWN OF DUNN Phone: () - _____
 Address: DANE COUNTY, WI

SAMPLE IDENTIFICATION

Facility: 405 _____ (Optional Sample Point Descriptions)
 Sample Point: W-36WP25 9/10/08 09/11 _____
Source Code (from below) Your Sample Point ID (left justify) Start Date (YY/MM/DD) Start Time (2400 hr. clock)Elapsed Hours (composite)

Source Codes:
 Well (W) Outfall (O) Bottom Sediment (B) Surface Impoundment (I) Leachate Collection Sys. (C) Other (X)
 Soil (S) River/Stream (R) Generation Point (G) Treatment Facility (T) Lake/Ocean (L) Specify _____

SHUTTLE CONTENTS

| BOTTLE | | | | ANALYSIS | SAMPLER | | LAB |
|--------|------|------|----------|---------------|-----------|--------------|--------------|
| No | Type | Size | Preserv. | | FIL (Y/N) | Observations | Observations |
| 2 | VOA | 40 | HCL | CLP/VDLATILES | N | | ✓ |
| 1 | MET | 1000 | HNO3 | CLP/METALS | Y | | ✓ 7/6 full |
| 1 | CONU | 125 | NONE | CHLORIDE | N | | ✓ |
| 1 | FL | 125 | NONE | FLUORIDE | N | | ✓ |
| 1 | VE | 40 | HCL | VOA SCREEN | N | | ✓ |
| 2 | VTB | 40 | GC/MS | VOLATILES | N | | ✓ BUBBLE |
| | | | | | | | |
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CHAIN OF CUSTODY CHRONICLE

1 Shuttle Opened By: (print) John Y. Rudd Date: 11/27/99 Time: 9:32
 Signature: John Y. Rudd Seal #: 0182183 Intact: ✓

I have received these materials in good condition from the above person.
 2 Name: _____ Signature: _____
 Date: _____ Time: _____ Remarks: _____

I have received these materials in good condition from the above person.
 3 Name: John Y. Rudd Signature: John Y. Rudd 3A
 Date: 1-8-51 Time: 0700 Remarks: OK

4 Shuttle Sealed By: (print) John Y. Rudd Date: 1-8-91 Time: 1600
 Signature: John Y. Rudd Seal #: 0182182 Intact: ✓

AB USE ONLY Opened By: A. Stampler Date: 1/9/91 Time: 1001
 SHUTTLE # 1090 TEMP. °C 6° SEAL # 182182 COND Intact



FIELD PARAMETER FORM (CC2)

Form 0002
Sample Management
12/89

ETC JOB # CA5589
Sample Point W 36WP25
Source Code W Sample Point I.D. 36WP25

FIELD PROCEDURES

9/10/08
PURGE DATE
(YY MM DD)

0814
START PURGE
(2400 Hr Clock)

115
ELAPSED HRS

1169
WATER VOL. IN CASING
(Gallons)

625
VOLUME PURGED
(Gallons)

SAMPLING METHOD: BAILER

Sampler Type E A-Submersible Pump D-Dipper/Bottle X-Other _____
B-ISCO E-Bailer (SPECIFY OTHER)
C-Bladder Pump F-Scoop/Shovel
Sampler Material C A-Teflon C-PVC X-Other _____
B-Metal D-Plastic (SPECIFY OTHER)
Tubing Material A-Teflon C-Polyethylene X-Other _____
B-Tygon D-Silicon (SPECIFY OTHER)
Sample Composed Y/N

Procedure/Proportions

FIELD MEASUREMENTS

Well Elevation (ft/msl) 966.96 Well Depth (ft) 54.74
Depth to Ground water (ft) 44.11 Sample Depth (non-well) (ft) _____
Groundwater Elevation (ft msl) 922.85

| | | | | |
|-----------------------------|---|-----------------------------|-------------------|-----------------|
| 1st <u>7.43</u> (STD) pH | 1st <u>934</u> spec. cond. <u>um/cm</u> at 25°C | <u>CH</u> (other parameter) | <u>+264</u> value | <u>ML</u> units |
| 2nd <u>7.33</u> (STD) pH | 2nd <u>925</u> spec. cond. <u>um/cm</u> at 25°C | (other parameter) | value | units |
| 3rd <u>7.29</u> (STD) pH | 3rd <u>928</u> spec. cond. <u>um/cm</u> at 25°C | (other parameter) | value | units |
| 4th <u>7.30</u> (STD) pH | 4th <u>917</u> spec. cond. <u>um/cm</u> at 25°C | (other parameter) | value | units |
| <u>8.5</u> Sample Temp (°C) | Turbidity NTU | | | |

FIELD COMMENTS

Sample Appearance: LIGHT GREY COLOR
Weather Conditions: SNOW FLURRIES, 15°F, WIND EAST AT 5MPH
Other: _____

FILTERING: Use Chain of Custody (CC1) to indicate which bottles were filtered

Sampler: John G. Rudd (Print) Employer: PELLA 335

I certify that sampling procedures were in accordance with applicable EPA state and corporate protocols.

1-8-51 (Date) John G. Rudd (Signature)

CHAIN OF CUSTODY FORM (CC1) ORIGINAL

Company: WMI Attn: Don Baun
 Facility/Site: Turn of Sunn (405) Phone: _____
 Address: _____

SAMPLE IDENTIFICATION

Facility: 41015 2 (Optional Sample Point Descriptions)
 Sample Point: W-3-F-W-P-2-5 9/10/08 0911
Source Code (from below) Your Sample Point ID (left justify) Start Date (YY/MM/DD) Start Time (2400 hr. clock) Elapsed Hours (composite)
 Source Codes:
 Well (W) Outfall (O) Bottom Sediment (B) Surface Impoundment (I) Leachate Collection Sys. (C) Other (X)
 Soil (S) River/Stream (R) Generation Point (G) Treatment Facility (T) Lake/Ocean (L) Specify _____

SHUTTLE CONTENTS

| No | BOTTLE | | | ANALYSIS | SAMPLER | | LAB |
|----|--------|------|----------|-------------------------------------|------------|--------------|--------------|
| | Type | Size | Preserv. | | Fill (Y/N) | Observations | Observations |
| 1 | P | 250 | φ | TDS, Bicarbonate, Carbonate Sulfate | N | | full, cloudy |
| | | | | | | | |
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CHAIN OF CUSTODY CHRONICLE

1. Shuttle Opened By: (print) _____ Date: _____ Time: _____
 Signature: _____ Seal #: _____ Intact: _____
 I have received these materials in good condition from the above person.
 2. Name: _____ Signature: _____
 Date: _____ Time: _____ Remarks: _____
 I have received these materials in good condition from the above person.
 3. Name: John G. Rudd Signature: John G. Rudd
 Date: 1-8-91 Time: 0700 Remarks: OK 536
 Shuttle Sealed By: (print) John G. Rudd Date: 1-8-91 Time: 1600
 Signature: John G. Rudd Seal #: 0402-01113 Intact: _____
 LAB USE ONLY Opened By: Kelly Schell Date: 1-9-91 Time: 14:00
 SHUTTLE # _____ TEMP. °C 40 SEAL # 1412-1413 COND. Intact



FIELD PARAMETER FORM (CC2)

Form 0002
Sample Management
12/89

ETC JOB # CA5589

Sample Point WJ 36WIPZ15
Source Code Sample Point I.D.

FIELD PROCEDURES

911011018
PURGE DATE
(YY MM DD)

08114
START PURGE
(2400 Hr Clock)

1115
ELAPSED HRS

1165
WATER VOL IN CASING
(Gallons)

675
VOLUME PURGED
(Gallons)

SAMPLING METHOD: BAILER

Sampler Type E A-Submersible Pump D-Dipper/Bottle
B-ISCO E-Bailer X-Other _____
C-Bladder Pump F-Scoop/Shovel (SPECIFY OTHER)

Sampler Material C A-Teflon C-PVC X-Other _____
B-Metal D-Plastic (SPECIFY OTHER)

Tubing Material A-Teflon C-Polyethylene X-Other _____
B-Tygon D-Silicon (SPECIFY OTHER)

Sample Compositd Y (N) Procedure/Proportions _____

FIELD MEASUREMENTS

Well Elevation (ft/msl) 966.96

Well Depth (ft) 54.74

Depth to Ground water (ft) 44.11

Sample Depth (non-well) (ft) _____

Groundwater Elevation (ft msl) 922.85

1st 7.43 (STD) 1st 934 um/cm at 25°C
ph spec. cond. (other parameter) value units

2nd 7.33 (STD) 2nd 925 um/cm at 25°C
ph spec. cond. (other parameter) value units

3rd 7.29 (STD) 3rd 928 um/cm at 25°C
ph spec. cond. (other parameter) value units

4th 7.30 (STD) 4th 917 um/cm at 25°C
ph spec. cond. (other parameter) value units

18.5 (°C) Sample Temp Turbidity NTU

FIELD COMMENTS

Sample Appearance: Light grey color

Weather Conditions: SNOW FLURRIES, 15°F, WIND EAST 5MPH

Other: _____

FILTERING: Use Chain of Custody (CC1) to indicate which bottles were filtered

Sampler: John G. Ruda (Print) Employer: PELA 337

I certify that sampling procedures were in accordance with applicable EPA state and corporate protocols.

1-8-91 (Date) John G. Ruda (Signature)

Company: WASTE MANAGEMENT, INC. Attn.: DEE BRNCICH
 Facility/Site: TOWN OF DUNN Phone: () - _____
 Address: , DANE COUNTY, WI

SAMPLE IDENTIFICATION

Facility: H P F (Optional Sample Point Descriptions: _____)
 Sample Point: M-3 GW FIB 9/10/91 0952
Source Code (from below) Your Sample Point ID (left justify) Start Date (YY/MM/DD) Start Time (2400 hr. clock) Elapsed Hours (composite)

Source Codes
 Well (W) Outfall (O) Bottom Sediment (B) Surface Impoundment (I) Leachate Collection Sys. (C) Other LAB DI H2O (X)
 Soil (S) River/Stream (R) Generation Point (G) Treatment Facility (T) Lake/Ocean (L) Specify _____

SHUTTLE CONTENTS

| No | BOTTLE | | | ANALYSIS | SAMPLER | | LAB |
|----|--------|------|----------|---------------|-----------|--------------|--------------|
| | Type | Size | Preserv. | | FHL (Y/N) | Observations | Observations |
| 1 | VOA | 40 | HCL | CLP/VOLATILES | N | | ✓ |
| 2 | VS | 40 | HCL | VOA SCREEN | N | | ✓ |
| 3 | MET | 1000 | HNO3 | CLP/METALS | N | | ✓ |
| 4 | IDNO | 125 | NONE | CHLORIDE | N | | ✓ |
| 5 | FL | 125 | NONE | FLUORIDE | N | | ✓ |
| | | | | | | | |
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CHAIN OF CUSTODY CHRONICLE

1 Shuttle Opened By: (print) John G. Rudd Date: 11/30/90 Time: 0830 AM
 Signature: John G. Rudd Seal #: 182173 Intact: ✓

I have received these materials in good condition from the above person.
 2 Name: _____ Signature: _____
 Date: _____ Time: _____ Remarks: _____

I have received these materials in good condition from the above person.
 3 Name: John G. Rudd Signature: John G. Rudd
 Date: 1-8-91 Time: 0700 Remarks: OK

Shuttle Sealed By: (print) John G. Rudd Date: 1-8-91 Time: 558
 Signature: John G. Rudd Seal #: 0182172 Intact: 1600

LAB USE ONLY Opened By: W. Stroscher Date: 1/10/91 Time: 1140
 SHUTTLE # 103 TEMP. °C 2° SEAL # 182172 COND. intact



FIELD PARAMETER FORM (CC2)

Form 0002
Sample Management
12/89

ETC JOB # CA5590
 Sample Point 36WFB
Source Code Sample Point I.D.

FIELD PROCEDURES

PURGE DATE (YY MM DD) 9/19/88 START TIME (2400 Hr Clock) 0652 ELAPSED HRS WATER VOL IN CASING (Gallons) VOLUME PURGED (Gallons)

SAMPLING METHOD: TRANSFER LAB DI H₂O TO SAMPLE CONTAINERS

Sampler Type A-Submersible Pump D-Dipper/Bottle X-Other _____ (SPECIFY OTHER)
 B-ISCO E-Bailer

Sampler Material A-Teflon C-PVC X-Other _____ (SPECIFY OTHER)
 B-Metal D-Plastic

Tubing Material A-Teflon C-Polyethylene X-Other _____ (SPECIFY OTHER)
 B-Tygon D-Silicon

Sample Compositd Y/N

Procedure/Proportions

FIELD MEASUREMENTS

Well Elevation (ft/msl) Well Depth (ft)
 Depth to Ground water (ft) Sample Depth (non-well) (ft)
 Groundwater Elevation (ft msl)

| | | | | | | |
|--|-------------|-------------------|---------------|-------------------|-------|-------|
| 1st <u> </u> (STD) 1st <u> </u> <u> </u> <u> </u> <u> </u> | ph | spec. cond. | um/cm at 25°C | (other parameter) | value | units |
| 2nd <u> </u> (STD) 2nd <u> </u> <u> </u> <u> </u> <u> </u> | ph | spec. cond. | um/cm at 25°C | (other parameter) | value | units |
| 3rd <u> </u> (STD) 3rd <u> </u> <u> </u> <u> </u> <u> </u> | ph | spec. cond. | um/cm at 25°C | (other parameter) | value | units |
| 4th <u> </u> (STD) 4th <u> </u> <u> </u> <u> </u> <u> </u> | ph | spec. cond. | um/cm at 25°C | (other parameter) | value | units |
| <u> </u> (°C) | Sample Temp | <u> </u> NTU | Turbidity | | | |

FIELD COMMENTS

Sample Appearance: CLEAR / NO ODOOR
 Weather Conditions: SUNNY FLURRIES, 15° F, WIND EAST 5MPH
 Other: _____

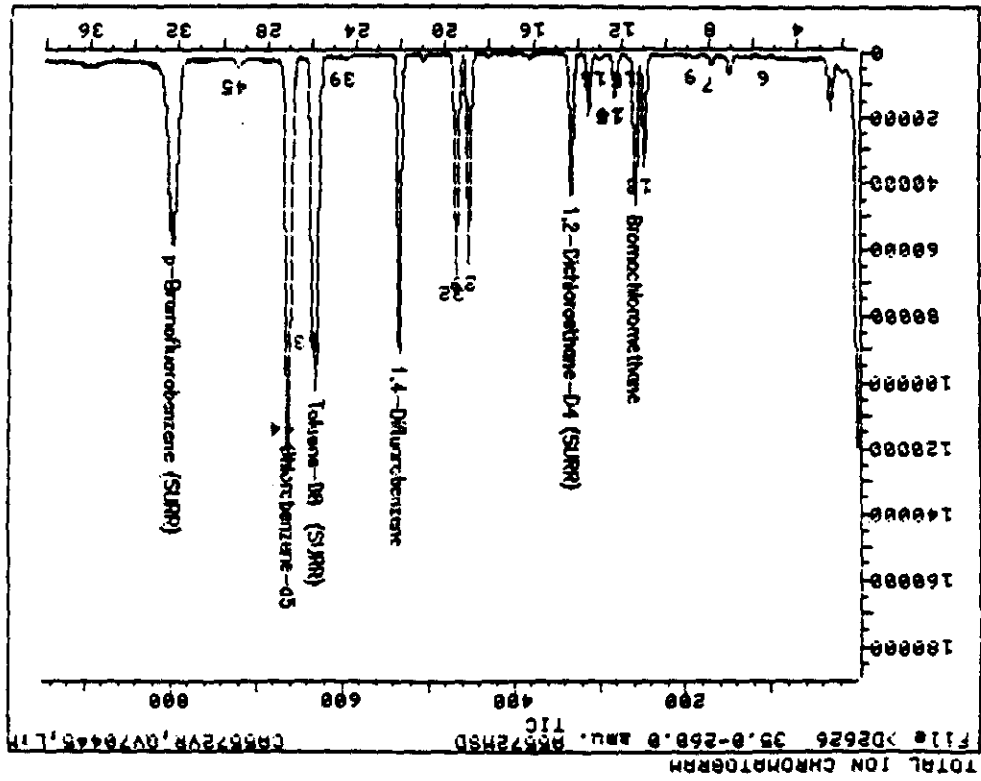
FILTERING: Use Chain of Custody (CC1) to indicate which bottles were filtered

Sampler: John Y. Rudd Employer: PELA 339
(Print)

I certify that sampling procedures were in accordance with applicable EPA state and corporate protocols.

1-8-91 John Y. Rudd
(Date) (Signature)

Data File: >D2626::SS
 Name: A5572MSD
 Misc: C6572VR,QV70445,L:M4,5,,
 ID File: I00310::SS
 Title: PP/UDA, IFB, XUD013, XUD09
 Last Calibration: 910116 11:09
 Operator ID: RK2225
 Quant Time: 910115 20:01
 Injected at: 910115 19:22



QUANT REPORT

Operator ID: RK2225
 Output File: ^D2626::AQ
 Data File: >D2626::SS
 Name: A5572MSD
 Misc: CA5572VR,QU70445,L:M4,5,,

Quant Rev: 7 Quant Time: 910115 20:01
 Injected at: 910115 19:22
 Dilution Factor: 1.00000

ID File: ID0310::SS
 Title: PP/VOA, 1FB, XVUA13, XVOA9
 Last Calibration: 910114 11:09

| Compound | R.T. | Scan# | Area | Conc | Units | q |
|----------------------------------|-------|-------|--------|------------------|-------|-----|
| 1) *Bromochloromethane | 11.39 | 260 | 70226 | 250.00 | NG | 97 |
| 6) Chloroethane | 5.45 | 107 | 4994 | 32.00 | NG | 94 |
| 7) Methylene chloride | 7.94 | 171 | 8023 | 61.84 | NG | 93 |
| 9) Acetone | 8.75 | 192 | 4219 | 22.61 | NG | 95 |
| 13) 1,1-Dichloroethylene | 10.96 | 249 | 68782 | 213.71 | NG | 91 |
| 14) 1,1-Dichloroethane | 12.28 | 283 | 12733 | 19.43 | NG | 95 |
| 15) Tetrahydrofuran | 11.74 | 269 | 3304 | 58.64 | NG | 100 |
| 15) Tetrahydrofuran | 12.32 | 284 | 38470 | 682.78 | NG | 100 |
| 16) 1,2-Trans-dichloroethylene | 13.09 | 304 | 4368 | 13.24 | NG | 89 |
| 18) 1,2-Dichloroethane-D4 (SURR) | 14.26 | 334 | 209226 | 319.53 | NG | 94 |
| 21) *1,4-Difluorobenzene | 22.05 | 535 | 414303 | 250.00 | NG | 98 |
| 29) Trichloroethylene | 18.95 | 455 | 131783 | 194.05 | NG | 93 |
| 31) bis(Chloromethyl)ether | 19.49 | 469 | 21022 | 97.00 | NG | 100 |
| 32) Benzene | 19.49 | 469 | 328017 | 220.32 | NG | 94 |
| 37) *Chlorobenzene-d5 | 26.98 | 662 | 344088 | 250.00 | NG | 79 |
| 39) 2-Hexanone | 24.49 | 598 | 5221 | 2.04 | NG | 71 |
| 42) Toluene-D8 (SURR) | 25.77 | 631 | 426102 | 250.83 | NG | 97 |
| 43) Toluene | 25.97 | 636 | 191744 | 200.20 | NG | 96 |
| 44) Chlorobenzene | 27.10 | 665 | 261787 | 208.48 | NG | 98 |
| 45) Ethylbenzene | 29.35 | 723 | 4713 | 7.90 | NG | 89 |
| 46) p-Bromofluorobenzene (SURR) | 32.26 | 798 | 258360 | 242.24 | NG | 85 |

* Compound is ISTD

AP 1/22/91

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

A5599MSD

Lab Name: ETCNJ

Contract:

Lab Code:

Case No.:

SAS No.:

SDG No.:

Matrix: (soil/water) WATER

Lab Sample ID: CA5599UR

Sample wt/vol: 5.0 (g/mL) ML

Lab File ID: >C2216

Level: (low/med) LOW

Date Received: 01/8/91

% Moisture: not dec.

Date Analyzed: 01/19/91

Column: (pack/cap) PACK

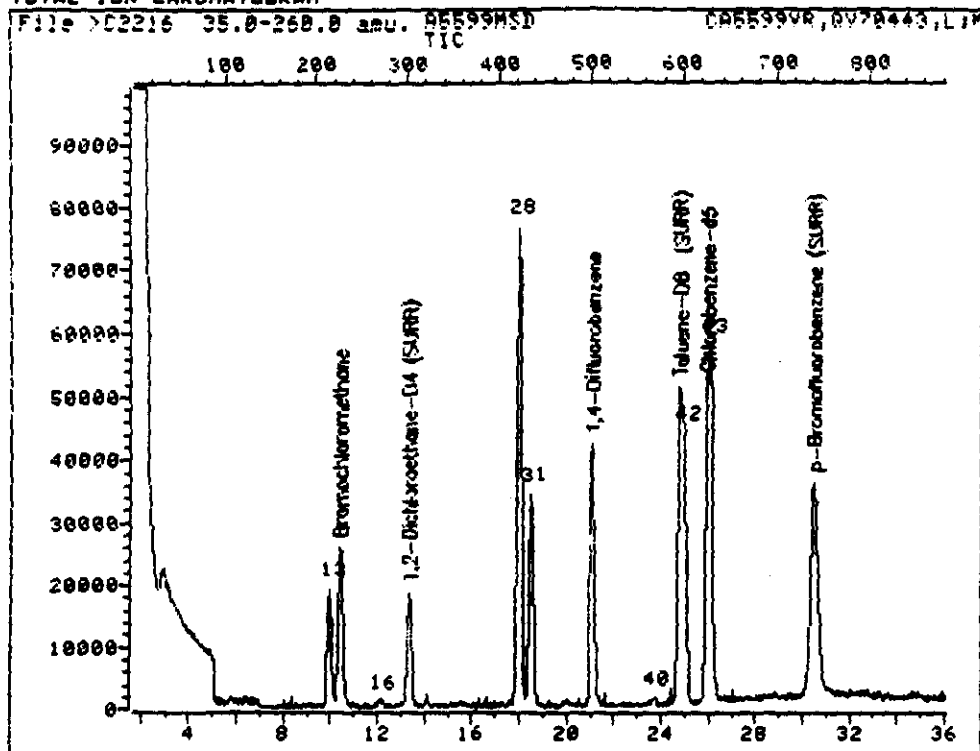
Dilution Factor: 1

CONCENTRATION UNITS:

| CAS NO. | COMPOUND | (ug/L or ug/Kg) | UG/L | Q |
|------------|----------------------------|-----------------|------|----|
| 74-87-3 | Chloromethane | | 10 | IU |
| 74-83-9 | Bromomethane | | 10 | IU |
| 75-01-4 | Vinyl Chloride | | 10 | IU |
| 75-00-3 | Chloroethane | | 10 | IU |
| 75-09-2 | Methylene Chloride | | 5 | IU |
| 67-64-1 | Acetone | | 10 | IU |
| 75-15-0 | Carbon Disulfide | | 5 | IU |
| 75-35-4 | 1,1-Dichloroethene | | 45 | I |
| 75-34-3 | 1,1-Dichloroethane | | 5 | IU |
| 540-59-0 | 1,2-Dichloroethene (total) | | 2 | IJ |
| 67-66-3 | Chloroform | | 5 | IU |
| 107-06-2 | 1,2-Dichloroethane | | 5 | IU |
| 78-93-3 | Butanone | | 10 | IU |
| 71-55-6 | 1,1,1-Trichloroethane | | 5 | IU |
| 56-23-5 | Carbon Tetrachloride | | 5 | IU |
| 108-05-4 | Vinyl Acetate | | 10 | IU |
| 75-27-4 | Bromodichloromethane | | 5 | IU |
| 78-87-5 | 1,2-Dichloropropane | | 5 | IU |
| 10061-01-5 | cis-1,3-Dichloropropane | | 5 | IU |
| 79-01-6 | Trichloroethene | | 100 | I |
| 124-48-1 | Dibromochloromethane | | 5 | IU |
| 79-00-5 | 1,1,2-Trichloroethane | | 5 | IU |
| 71-43-2 | Benzene | | 45 | I |
| 10061-02-6 | trans-1,3-Dichloropropane | | 5 | IU |
| 75-25-2 | Bromoform | | 5 | IU |
| 108-10-1 | 4-Methyl-2-Pentanone | | 10 | IU |
| 591-78-6 | 2-Hexanone | | 10 | IU |
| 127-18-4 | Tetrachloroethene | | 2 | IJ |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | | 5 | IU |
| 108-88-3 | Toluene | | 65 | I |
| 108-90-7 | Chlorobenzene | | 49 | I |
| 100-41-4 | Ethylbenzene | | 5 | IU |
| 100-42-5 | Styrene | | 5 | IU |
| 1330-20-7 | Xylene (total) | | 5 | IU |

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TOTAL ION CHROMATOGRAM



Data File: >C2216::U1
Name: A5599MSD
Misc: CA5599UR,QU70443,L:M4,5,,

Quant Output File: ^C2216::AQ

Id File: IC1204::SS
Title: IFB, PP/UDA, XUDA13
Last Calibration: 910119 18:15

Operator ID: KB6656
Quant Time: 910119 21:49
Injected at: 910119 21:12

QUANT REPORT

Page 1

Operator ID: KB6656 Quant Rev: 7 Quant Time: 910119 21:49
 Output File: C02216::AQ Injected at: 910119 21:12
 Data File: C02216::U1 Dilution Factor: 1.00000
 Name: A5599MSD
 Misc: CA5599UR,0070443,L:M4,5,,

ID File: IC1204::SS
 Title: IFB, PPXUDA, XUDA13
 Last Calibration: 910119 18:15

| | Compound | R.T. | Scan# | Area | Conc | Units | a |
|-----|------------------------------|-------|-------|--------|------------------|-------|-----|
| 1) | *Bromochloromethane | 10.42 | 226 | 52788 | 250.00 | NG | 97 |
| 13) | 1,1-Dichloroethylene | 9.95 | 214 | 47802 | 227.08 | NG | 94 |
| 16) | 1,2-Trans-dichloroethylene | 12.12 | 270 | 2864 | 11.95 | NG | 39 |
| 18) | 1,2-Dichloroethane-D4 (SURR) | 13.36 | 302 | 81665 | 235.24 | NG | 82 |
| 20) | *1,4-Difluorobenzene | 21.11 | 502 | 220332 | 250.00 | NG | 91 |
| 28) | Trichloroethylene | 18.01 | 422 | 176505 | 498.79 | NG | 87 |
| 30) | bis(Chloromethyl)ether | 18.52 | 435 | 12006 | 25.25 | NG | 100 |
| 31) | Benzene | 18.52 | 435 | 176266 | 227.10 | NG | 97 |
| 36) | *Chlorobenzene-d5 | 25.96 | 627 | 122464 | 250.00 | NG | 96 |
| 40) | Tetrachloroethylene | 23.71 | 569 | 2760 | 11.02 | NG | 88 |
| 41) | Toluene-D8 (SURR) | 24.80 | 597 | 225102 | 319.18 | NG | 93 |
| 42) | Toluene | 24.99 | 602 | 115299 | 325.65 | NG | 96 |
| 43) | Chlorobenzene | 26.12 | 628 | 117599 | 246.74 | NG | 38 |
| 45) | p-Bromofluorobenzene (SURR) | 30.50 | 741 | 124202 | 359.70 | NG | 81 |

* Compound is ISTD

AP 1/25/91

ETC

CHAIN OF CUSTODY

Company: WASTE MANAGEMENT, INC. Attn.: DEE BRNCICH
 Facility/Site: TOWN OF DUNN Phone: () -
 Address: DANE COUNTY, WI

SAMPLE IDENTIFICATION

Facility: 409 Facility/Site Code (Optional Sample Point Descriptions)
 Sample Point: W-316 216 9/10/08 1120 _____
Source Code (from below) Your Sample Point ID (left justify) Start Date (YY/MM/DD) Start Time (2400 hr clock) Elapsed Hours (composite)
 Source Codes:
 Well (W) Outfall (O) Bottom Sediment (B) Surface Impoundment (I) Leachate Collection Sys. (C) Other (X)
 Soil (S) River/Stream (R) Generation Point (G) Treatment Facility (T) Lake/Ocean (L) Specify _____

SHUTTLE CONTENTS

| BOTTLE | | | | ANALYSIS | SAMPLER | | LAB |
|--------|------|------|----------|---------------|-------------|--------------|--------------|
| No | Type | Size | Preserv. | | Filt. (Y/N) | Observations | Observations |
| 2 | VOA | 40 | HCL | CLP/VDLATILES | N | | ✓ |
| 1 | US | 40 | HCL | VOA SCREEN | N | | ✓ |
| 1 | MET | 1000 | HNO3 | CLP/METALS | ✓ | | ✓ 3/6 full |
| 1 | CUNU | 125 | NONE | CHLORIDE | N | | ✓ |
| 1 | F- | 125 | NONE | FLUORIDE | N | | ✓ |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

CHAIN OF CUSTODY CHRONICLE

1. Shuttle Opened By: (print) John G. Rudd Date: 11/22/90 Time: 1040 am
 Signature: John G. Rudd Seal #: 0182105 Intact: ✓
 I have received these materials in good condition from the above person.
 2. Name: _____ Signature: _____
 Date: _____ Time: _____ Remarks: _____
 I have received these materials in good condition from the above person.
 3. Name: _____ Signature: _____
 Date: _____ Time: _____ Remarks: _____
 4. Shuttle Sealed By: (print) Michael M. Alexander Date: 1-8-91 Time: 2:00 PM
 Signature: Michael M. Alexander Seal #: 182140 Intact: ✓
 LAB USE ONLY Opened By: P. Alexander Date: 1/9/91 Time: 9:30
 SHUTTLE # 524 TEMP. °C 40 SEAL # 182140 COND. Isotact



FIELD PARAMETER FORM (CC2)

Form 0002
Sample Management
12/89

ETC JOB # CA5568
Sample Point W1316/RZ6
Source Code Sample Point I.D.

FIELD PROCEDURES

9/10/08
PURGE DATE
(YY MM DD)

1100
START PURGE
(2400 Hr Clock)

103
ELAPSED HRS

114
WATER VOL. IN CASING
(Gallons)

156
VOLUME PURGED
(Gallons)

SAMPLING METHOD:

Sampler Type A-Submersible Pump D-Dipper/Bottle
 B-ISCO E-Bailer
 C-Bladder Pump F-Scoop/Shovel X-Other _____ (SPECIFY OTHER)

Sampler Material A-Teflon C-PVC
 B-Metal D-Plastic X-Other _____ (SPECIFY OTHER)

Tubing Material A-Teflon C-Polyethylene
 B-Tygon D-Silicon X-Other _____ (SPECIFY OTHER)

Sample Compositing Y/N N

Procedure/Proportions

FIELD MEASUREMENTS

Well Elevation (ft/msl) 9135.14 Well Depth (ft) 2373
 Depth to Ground water (ft) 1418 Sample Depth (non-well) (ft) _____
 Groundwater Elevation (ft msl) 9120.96

| | | | | | |
|------------------------------|-----------------------------|----------------|-----------------------------|------------------|-----------------|
| 1st <u>7.319</u> (STD) ph | 1st <u>1282</u> spec. cond. | um/cm at 25 °C | <u>GA</u> (other parameter) | <u>-74</u> value | <u>ML</u> units |
| 2nd <u>7.313</u> (STD) ph | 2nd <u>1298</u> spec. cond. | um/cm at 25 °C | (other parameter) | <u>-79</u> value | units |
| 3rd <u>7.312</u> (STD) ph | 3rd <u>1287</u> spec. cond. | um/cm at 25 °C | (other parameter) | <u>-83</u> value | units |
| 4th <u>7.314</u> (STD) ph | 4th <u>1291</u> spec. cond. | um/cm at 25 °C | (other parameter) | <u>-82</u> value | units |
| <u>10.9</u> Sample Temp (°C) | _____ Turbidity | NTU | | | |

FIELD COMMENTS

Sample Appearance: olive brown, odor like LWC
 Weather Conditions: cloudy, 15° F
 Other: _____

FILTERING: Use Chain of Custody (CC1) to indicate which bottles were filtered

Sampler: Michael M Alexander (Print) Employer: PELA 324

I certify that sampling procedures were in accordance with applicable EPA state and corporate protocols.

1-8-91 (Date) Michael M. Alexander (Signature)

CHAIN OF CUSTODY FORM (CC1) ORIGINAL Date Sealed 11-20-91 By: LTS

Company: WMI Attn: Dan Green
 Facility/Site: Town of Sunn (405) Phone: _____
 Address: _____

SAMPLE IDENTIFICATION

Facility: 14115 La (Optional Sample Point Descriptions)
 Sample Point: W-3161P2161 7/10/108 11210
Source Code (from below) Your Sample Point ID (left justify) Start Date (YY/MM/DD) Start Time (2400 hr clock) Elapsed Hours (composite)

Source Codes
 W: (W) Outfall (O) Bottom Sediment (B) Surface Impoundment (I) Leachate Collection Sys (C) Other (X)
 S: (S) River/Stream (R) Generation Point (G) Treatment Facility (T) Lake/Ocean (L) Specify _____

SHUTTLE CONTENTS

| No | BOTTLE | | | ANALYSIS | SAMPLER | | LAB |
|----|--------|------|----------|--------------------------------------|------------|--------------|--------------|
| | Type | Size | Preserv. | | FILL (Y/N) | Observations | Observations |
| 1 | T | 250 | Ø | TDS, Bicarbonate, Carbonate, Sulfate | ✓ | | full brown |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
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| | | | | | | | |
| | | | | | | | |

CHAIN OF CUSTODY CHRONICLE

1 Shuttle Opened By: (print) _____ Date: _____ Time: _____
 Signature: _____ Seal #: _____ Intact: _____
 I have received these materials in good condition from the above person.
 2 Name: _____ Signature: _____
 Date: _____ Time: _____ Remarks: _____
 I have received these materials in good condition from the above person.
 3 Name: _____ Signature: _____
 Date: _____ Time: _____ Remarks: _____
 4 Shuttle Sealed By: (print) Michael M Alexander Date: 1-8-91 Time: 2:00 PM
 Signature: Michael M Alexander Seal #: 1412-1413 Intact: ✓
 LAB USE ONLY Opened By: Kelly Schell Date: 1-9-91 Time: 17:00
 SHUTTLE # _____ TEMP. °C 40 SEAL # 1412-1413 COND. Intact



FIELD PARAMETER FORM (CC2)

Form 0002
Sample Management
12/89

1912-1412

ETC JOB # CA5568
 Sample Point W1 P 6612216
Source Code Sample Point I.D.

FIELD PROCEDURES

1910108
PURGE DATE (YY MM DD)

1100
START PURGE (2400 Hr Clock)

0.3
ELAPSED HRS

114
WATER VOL IN CASING (Gallons)

5.6
VOLUME PURGED (Gallons)

SAMPLING METHOD:

Sampler Type E-A-Submersible Pump D-Dipper/Bottle
 B-ISCO E-Bailer
 C-Bladder Pump F-Scoop/Shovel X-Other _____ (SPECIFY OTHER)

Sampler Material A-Teflon C-PVC
 B-Metal D-Plastic X-Other _____ (SPECIFY OTHER)

Tubing Material A-Teflon C-Polyethylene
 B-Tygon D-Silicon X-Other _____ (SPECIFY OTHER)

Sample Compositing Y/N N

Procedure/Proportions

FIELD MEASUREMENTS

Well Elevation (ft/msl) 1935.14 Well Depth (ft) 22.77
 Depth to Ground water (ft) 14.18 Sample Depth (non-well) (ft) _____
 Groundwater Elevation (ft msl) 1920.96

| | | | | | |
|---|--|--------------------------------------|--|----------------------------------|--------------------------------|
| 1st <u>7.39</u> (STD) <small>ph</small> | 1st <u>112.82</u> <small>spec. cond.</small> | <u>um/cm</u> <small>at 25° C</small> | <u>EL</u> <small>(other parameter)</small> | <u>-174</u> <small>value</small> | <u>ml</u> <small>units</small> |
| 2nd <u>7.53</u> (STD) <small>ph</small> | 2nd <u>112.98</u> <small>spec. cond.</small> | <u>um/cm</u> <small>at 25° C</small> | _____ <small>(other parameter)</small> | <u>-179</u> <small>value</small> | _____ <small>units</small> |
| 3rd <u>7.32</u> (STD) <small>ph</small> | 3rd <u>112.87</u> <small>spec. cond.</small> | <u>um/cm</u> <small>at 25° C</small> | _____ <small>(other parameter)</small> | <u>83</u> <small>value</small> | _____ <small>units</small> |
| 4th <u>7.34</u> (STD) <small>ph</small> | 4th <u>112.91</u> <small>spec. cond.</small> | <u>um/cm</u> <small>at 25° C</small> | _____ <small>(other parameter)</small> | <u>82</u> <small>value</small> | _____ <small>units</small> |
| <u>10.9</u> <small>(°C)</small> <small>Sample Temp</small> | _____ <small>NTU</small> <small>Turbidity</small> | | | | |

FIELD COMMENTS

Sample Appearance: olive brown, odor like LW?
 Weather Conditions: cloudy, 15°F
 Other _____

FILTERING: Use Chain of Custody (CC1) to indicate which bottles were filtered

Sampler: Michael M. Alexander Employer: PETA 326

I certify that sampling procedures were in accordance with applicable EPA state and corporate protocols.

1-8-91 Michael M. Alexander
Date Signature

CHAIN OF CUSTODY FORM (CC1) ORIGINAL Date Sealed 9/11/91 By: _____

Company: WASTE MANAGEMENT, INC. Attn.: DEE BRNCICH

Facility/Site: TOWN OF DUNN Phone: () -

Address: DANE COUNTY, WI

SAMPLE IDENTIFICATION

Facility: 409 Facility/Site Code (Optional Sample Point Descriptions)

Sample Point: W-3 SWPZB 9/10/91 1251 Source Code (from below) Your Sample Point ID (left justify) Start Date (YY/MM/DD) Start Time (2400 hr. clock) Elapsed Hours (composite)

Source Codes: Well (W) Outfall (O) Bottom Sediment (B) Surface Impoundment (I) Leachate Collection Sys. (C) Other (X) Soil (S) River/Stream (R) Generation Point (G) Treatment Facility (T) Lake/Ocean (L) Specify _____

SHUTTLE CONTENTS

| BOTTLE | | | | ANALYSIS | SAMPLER | | LAB |
|--------|------|------|----------|--------------------|------------|--------------|--------------|
| No | Type | Size | Preserv. | | FIL. (Y/N) | Observations | Observations |
| 2 | VOA | 40 | HCL | CLP/VOLATILES | N | | ✓ |
| 1 | US | 40 | HCL | VOA SCREEN | N | | ✓ |
| 1 | MET | 1000 | HNO3 | CLP/METALS | Y | | ✓ 5/6 full |
| 1 | COND | 125 | NONE | CHLORIDE | N | | ✓ |
| 1 | FL | 125 | NONE | FLUORIDE | N | | ✓ |
| 6 | VOA | 40 | HCL | VOLATILES (MS/MSD) | N | | ✓ |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

CHAIN OF CUSTODY CHRONICLE

1 Shuttle Opened By: (print) John G. Rudd Date: 11/27/90 Time: 12:45
 Signature: John G. Rudd Seal #: 182141 Intact: ✓

I have received these materials in good condition from the above person.
 2 Name: _____ Signature: _____
 Date: _____ Time: _____ Remarks: _____

I have received these materials in good condition from the above person.
 3 Name: _____ Signature: _____
 Date: _____ Time: _____ Remarks: 327

4 Shuttle Sealed By: (print) Michael M. Alexander Date: 1-8-91 Time: 2:00 PM
 Signature: Michael M. Alexander Seal #: 182140 Intact: ✓

LAB USE ONLY Opened By: D. Stenovic Date: 1/9/91 Time: 9:50
 SHUTTLE # 524 TEMP. °C 40 SEAL # 182140 COND. Subst

CHAIN OF CUSTODY FORM (CC1) ORIGINAL Date Sealed 11-20-90 By: KTS

Company: WMT Attn: Dan Brown

Facility/Site: Turn of Sun (45) Phone: _____

Address: _____

SAMPLE IDENTIFICATION

Facility: 41015 2 (Optional Sample Point Descriptions)

Sample Point: W-25W-2-8 9110108 (Source Code, Your Sample Point ID, Start Date, Start Time, Elapsed Hours)

Source Codes: 36-0 PZE 172 1/22/91 12+191
 (W) Outfall (O) Bottom Sediment (B) Surface Impoundment (I) Leachate Collection Sys. (C) Other (X)
 (S) River/Stream (R) Generation Point (G) Treatment Facility (T) Lake/Ocean (L) Specify _____

SHUTTLE CONTENTS

| BOTTLE | | | | ANALYSIS | SAMPLER | | LAB |
|--------|------|------|----------|-------------------------------------|------------|--------------|--------------|
| No | Type | Size | Preserv. | | FIL. (Y/N) | Observations | Observations |
| 1 | P | 250 | Ø | TDS, Bicarbonate, Carbonate Sulfate | N | | full, clear |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
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| | | | | | | | |

CHAIN OF CUSTODY CHRONICLE

1. Shuttle Opened By: (print) [Signature] Date: 11/20/90 Time: : :
 Signature: [Signature] Seal #: - - Intact:

I have received these materials in good condition from the above person.

2. Name: _____ Signature: _____
 Date: _____ Time: _____ Remarks: _____

I have received these materials in good condition from the above person.

3. Name: _____ Signature: _____
 Date: _____ Time: _____ Remarks: _____

4. Shuttle Sealed By: (print) Michael M. Alexander Date: 1-8-91 Time: 2:00 PM
 Signature: [Signature] Seal #: 1412-1413 Intact:

LAB USE ONLY Opened By: Kelly Schell Date: 1-9-91 Time: 14:00 327.1
 SHUTTLE # _____ TEMP. °C 40 SEAL # 1412-1413 COND. Intact ma 2/12/91

ETC

END OF PAGE INSERTION

327.2

ma 2/12/91



FIELD PARAMETER FORM (CC2)

Form 0002
Sample Management
12/99

ETC JOB # 182140
CA5584

Sample Point U JGW/P28

Source Code

Sample Point I.D.

FIELD PROCEDURES

9/10/08

PURGE DATE
(YY MM DD)

112316

START PURGE
(2400 Hr Clock)

025

ELAPSED HRS

121017

WATER VOL. IN CASING
(Gallons)

1830

VOLUME PURGED
(Gallons)

SAMPLING METHOD:

Sampler Type



A-Submersible Pump
B-ISCO
C-Bladder Pump

D-Dipper/Bottle
E-Bailer
F-Scoop/Shovel

X-Other _____

(SPECIFY OTHER)

Sampler Material



A-Teflon
B-Metal

C-PVC
D-Plastic

X-Other _____

(SPECIFY OTHER)

Tubing Material



A-Teflon
B-Tygon

C-Polyethylene
D-Silicon

X-Other _____

(SPECIFY OTHER)

Sample Composited Y/N

N

Procedure/Proportions

FIELD MEASUREMENTS

Well Elevation (ft/msl)

1900.18

Well Depth (ft)

1226.3

Depth to Ground water (ft)

19.91

Sample Depth (non-well) (ft)

1

Groundwater Elevation (ft msl)

172.027

1st 7.49 (STD)

ph

1st 171.7 um/cm

spec. cond.

at 25 °C

EH (other parameter)

150 value

mg/L units

2nd 7.39 (STD)

ph

2nd 172.7 um/cm

spec. cond.

at 25 °C

(other parameter)

+4.3 value

units

3rd 7.41 (STD)

ph

3rd 172.7 um/cm

spec. cond.

at 25 °C

(other parameter)

+3.2 value

units

4th 7.37 (STD)

ph

4th 167.8 um/cm

spec. cond.

at 25 °C

(other parameter)

4.36 value

units

19.8 (°C)

Sample Temp

1 NTU

Turbidity

FIELD COMMENTS

Sample Appearance: dark brownish gray

Weather Conditions: cloudy, 15°F

Other: _____

FILTERING: Use Chain of Custody (CC1) to indicate which bottles were filtered

Sampler: Michael M. Alexander

(Print)

Employer: PELA

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I certify that sampling procedures were in accordance with applicable EPA state and corporate protocols.

1-8-91

(Date)

Michael M. Alexander

(Signature)

ORIGINAL



FIELD PARAMETER FORM (CC2)

Form 0002
Sample Management
12/89

ETC JOB # CA55P4

Sample Point W 364P28

Source Code

Sample Point I.D.

FIELD PROCEDURES

9/10/08
PURGE DATE
(YY MM DD)

1236
START PURGE
(2400 Hr Clock)

025
ELAPSED HRS

12017
WATER VOL IN CASING
(Gallons)

1830
VOLUME PURGED
(Gallons)

SAMPLING METHOD:

Sampler Type A-Submersible Pump D-Dipper/Bottle
 B-ISCO E-Bailer
 C-Bladder Pump F-Scoop/Shovel X-Other _____ (SPECIFY OTHER)

Sampler Material A-Teflon C-PVC
 B-Metal D-Plastic X-Other _____ (SPECIFY OTHER)

Tubing Material A-Teflon C-Polyethylene
 B-Tygon D-Silicon X-Other _____ (SPECIFY OTHER)

Sample Composited Y/N N

Procedure/Proportions

FIELD MEASUREMENTS

Well Elevation (ft/msl) 19130.18 Well Depth (ft) 122.63
 Depth to Ground water (ft) 9.91 Sample Depth (non-well) (ft) _____
 Groundwater Elevation (ft msl) 19202.7

| | | | |
|--|-----------------------------|------------------|-----------------|
| 1st <u>7.49</u> (STD) 1st <u>1717</u> um/cm at 25°C | <u>EH</u> (other parameter) | <u>450</u> value | <u>mu</u> units |
| 2nd <u>7.59</u> (STD) 2nd <u>1727</u> um/cm at 25°C | (other parameter) | <u>443</u> value | units |
| 3rd <u>7.41</u> (STD) 3rd <u>1727</u> um/cm at 25°C | (other parameter) | <u>432</u> value | units |
| 4th <u>7.37</u> (STD) 4th <u>1678</u> um/cm at 25°C | (other parameter) | <u>436</u> value | units |
| <u>9.9</u> (°C) _____ NTU | | | |
| Sample Temp | Turbidity | | |

FIELD COMMENTS

Sample Appearance: _____
 Weather Conditions: _____
 Other: _____

FILTERING: Use Chain of Custody (CC1) to indicate which bottles were filtered

Sampler: Michael M. Alexander Employer: PELA 329

I certify that sampling procedures were in accordance with applicable EPA state and corporate protocols.

1-8-91 Michael M. Alexander
(Date) (Signature)

Company: WASTE MANAGEMENT, INC. Attn.: DEE BRNCICH
 Facility/Site: TOWN OF DUNN Phone: () - _____
 Address: , DANE COUNTY, WI

SAMPLE IDENTIFICATION

Facility: 105 (Facility/Site Code) (Optional Sample Point Descriptions)
 Sample Point: W364PZ11I 910107 0929
Source Code (from below) Your Sample Point ID (left justify) Start Date (YYMM/DD) Start Time (2400 hr. clock)Elapsed Hours (composite)
 Source Codes: Well (W) Outfall (O) Bottom Sediment (B) Surface Impoundment (I) Leachate Collection Sys. (C) Other (X)
 Soil (S) River/Stream (R) Generation Point (G) Treatment Facility (T) Lake/Ocean (L) Specify _____

SHUTTLE CONTENTS

| BOTTLE | | | | ANALYSIS | SAMPLER | | LAB |
|--------|------|------|----------|---------------|------------|--------------|-----------------|
| No | Type | Size | Preserv. | | FILL (Y/N) | Observations | Observations |
| 2 | VOA | 40 | HCL | CLP/VOLATILES | N | | ✓ small bubble |
| 1 | MET | 1000 | HNO3 | CLP/METALS | Y | | ✓ |
| 1 | CDNU | 125 | NONE | CHLORIDE | N | | ✓ |
| 1 | FL | 125 | NONE | FLUORIDE | N | | ✓ |
| 1 | VS | 40 | HCL | VOA SCREEN | N | | ✓ small bubbles |
| 2 | UTB | 40 | GC/MS, | VOLATILES | N | | ✓ ↓ |
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CHAIN OF CUSTODY CHRONICLE

1. Shuttle Opened By: (print) John G. Rudd Date: 11/27/50 Time: 12:15
 Signature: John G. Rudd Seal #: 182175 Intact: ✓
 I have received these materials in good condition from the above person.
 2. Name: _____ Signature: _____
 Date: _____ Time: _____ Remarks: _____
 I have received these materials in good condition from the above person.
 3. Name: _____ Signature: _____
 Date: _____ Time: _____ Remarks: 330
 4. Shuttle Sealed By: (print) Michael M. Alexander Date: 1-7-91 Time: 12:45
 Signature: Michael M. Alexander Seal #: 182174 Intact: ✓
 LAB USE ONLY Opened By: H. Scheller Date: 1/9/91 Time: 9:58
 SHUTTLE # 143 TEMP. °C 6 SEAL # 182174 COND. Intact



FIELD PARAMETER FORM (CC2)

Form 0002
Sample Management
12/89

ETC JOB #

182174
CA 5588

Sample Point

W 36402111
Source Code Sample Point I.D.

FIELD PROCEDURES

9/10/07
PURGE DATE (YY MM DD)

0815
START PURGE (2400 Hr Clock)

125
ELAPSED HRS

1412
WATER VOL. IN CASING (Gallons)

1650
VOLUME PURGED (Gallons)

SAMPLING METHOD:

Sampler Type A-Submersible Pump B-ISCO C-Bladder Pump D-Dipper/Bottle E-Bailer F-Scoop/Shovel X-Other _____ (SPECIFY OTHER)
Sampler Material A-Teflon B-Metal C-PVC D-Plastic X-Other _____ (SPECIFY OTHER)
Tubing Material A-Teflon B-Tygon C-Polyethylene D-Silicon X-Other _____ (SPECIFY OTHER)
Sample Compositing Y/N N
Procedure/Proportions

FIELD MEASUREMENTS

Well Elevation (ft/msl) 939.18 Well Depth (ft) 193.74
Depth to Ground water (ft) 18.56 Sample Depth (non-well) (ft) _____
Groundwater Elevation (ft msl) 1920.60

1st 7.22 (STD) 1st 1536 um/cm at 25°C EL 173 units
2nd 7.28 (STD) 2nd 1507 um/cm at 25°C (other parameter) 173 units
3rd 7.27 (STD) 3rd 1412 um/cm at 25°C (other parameter) 182 units
4th 7.26 (STD) 4th 1398 um/cm at 25°C (other parameter) 189 units
Sample Temp 15.8 (°C) Turbidity _____ NTU

FIELD COMMENTS

Sample Appearance: H gray, bad odor like LW wells
Weather Conditions: cloudy, 15°F
Other: _____

FILTERING: Use Chain of Custody (CC1) to indicate which bottles were filtered

Sampler: Shawn Hanrey Employer: PELA 331

I certify that sampling procedures were in accordance with applicable EPA state and corporate protocols.

1-7-91 Michael P. Alford
(Date) (Signature)

CHAIN OF CUSTODY FORM (CC1) ORIGINAL

Date Sealed 11-20-90 By: HTS

Company: WMT Attn: Dan Gunn
 Facility/Site: Turn of Dunn (405) Phone: _____
 Address: _____

SAMPLE IDENTIFICATION

Facility: 14105 12 (Optional Sample Point Descriptions)
 Sample Point: W-36W/PZ/VI 910107 0929
Source Code (from below) Your Sample Point ID (left justify) Start Date (YY/MM/DD) Start Time (2400 hr clock) Elapsed Hours (composite)
 Source Codes:
 Well (W) Outfall (O) Bottom Sediment (B) Surface Impoundment (I) Leachate Collection Sys. (C) Other (X)
 Soil (S) River/Stream (R) Generation Point (G) Treatment Facility (T) Lake/Ocean (L) Specify _____

SHUTTLE CONTENTS

| BOTTLE | | | | ANALYSIS | SAMPLER | | LAB |
|--------|------|------|----------|-------------------------------------|------------|--------------|--------------|
| No | Type | Size | Preserv. | | FIL. (Y/N) | Observations | Observations |
| 1 | P | 250 | Ø | TDS, Bicarbonate, Carbonate Sulfate | ✓ | | full, yellow |
| | | | | | | | |
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CHAIN OF CUSTODY CHRONICLE

1. Shuttle Opened By: (print) [Signature] Date: 11-20-90 Time: 1:00 PM
 Signature: [Signature] Seal #: _____ Intact: _____
 I have received these materials in good condition from the above person.
 2. Name: _____ Signature: _____
 Date: _____ Time: _____ Remarks: _____
 I have received these materials in good condition from the above person.
 3. Name: Michael M. Alexander Signature: [Signature]
 Date: 1-8-91 Time: 1:00 PM Remarks: date should be 1-8-91 ETC
 4. Shuttle Sealed By: (print) Michael M. Alexander Date: 1-8-91 Time: 1:00 PM
 Signature: [Signature] Seal #: 1412-1413 Intact: ✓
 LAB USE ONLY Opened By: Kelly Schenk Date: 1-9-91 Time: 11:00
 SHUTTLE # _____ TEMP. °C 40 SEAL # 1412-1413 COND. Intact



FIELD PARAMETER FORM (CC2)

Form 0002
Sample Management
12/89

1412-1413

ETC JOB # CA5588
Sample Point LA 3 SHARP VIT
Source Code Sample Point I.D

FIELD PROCEDURES

19/10/08
PURGE DATE
(YY MM DD)

0815
START PURGE
(2400 Hr Clock)

125
ELAPSED HRS

1412
WATER VOL. IN CASING
(Gallons)

11650
VOLUME PURGED
(Gallons)

SAMPLING METHOD:

Sampler Type A-Submersible Pump D-Dipper/Bottle
 B-ISCO E-Bailer
 C-Bladder Pump F-Scoop/Shovel X-Other: _____
(SPECIFY OTHER)

Sampler Material A-Teflon C-PVC
 B-Metal D-Plastic X-Other: _____
(SPECIFY OTHER)

Tubing Material A-Teflon C-Polyethylene
 B-Tygon D-Silicon X-Other: _____
(SPECIFY OTHER)

Sample Compositd Y/N N

Procedure/Proportions

FIELD MEASUREMENTS

Well Elevation (ft/msl) 1939.18 Well Depth (ft) 1937.4
 Depth to Ground water (ft) 18.58 Sample Depth (non-well) (ft) _____
 Groundwater Elevation (ft msl) 1920.60

| | | | |
|------------------------------------|---|-----------------------------|--------------------------------------|
| 1st <u>7.22</u> (STD) <u>ph</u> | 1st <u>1516</u> <u>spec. cond.</u> <u>um/cm at 25°C</u> | <u>EL</u> (other parameter) | <u>173</u> <u>value</u> <u>units</u> |
| 2nd <u>7.28</u> (STD) <u>ph</u> | 2nd <u>1517</u> <u>spec. cond.</u> <u>um/cm at 25°C</u> | _____ (other parameter) | <u>173</u> <u>value</u> <u>units</u> |
| 3rd <u>7.27</u> (STD) <u>ph</u> | 3rd <u>1412</u> <u>spec. cond.</u> <u>um/cm at 25°C</u> | _____ (other parameter) | <u>182</u> <u>value</u> <u>units</u> |
| 4th <u>7.26</u> (STD) <u>ph</u> | 4th <u>1398</u> <u>spec. cond.</u> <u>um/cm at 25°C</u> | _____ (other parameter) | <u>189</u> <u>value</u> <u>units</u> |
| <u>5.8</u> (°C) <u>Sample Temp</u> | _____ <u>NTU</u> <u>Turbidity</u> | | |

FIELD COMMENTS

Sample Appearance: H. gray, bad odor like LW wells
 Weather Conditions: cloudy, 15°
 Other: _____
Note on ETC copy 1-7-91 incorrect

FILTERING: Use Chain of Custody (CC1) to indicate which bottles were filtered

Sampler: Shawn Haney Employer: PEHA **333**

I certify that sampling procedures were in accordance with applicable EPA state and corporate protocols.

1-8-91 Michael J. Alcaraz
ID# Signature

CHAIN OF CUSTODY FORM (CC1) ORIGINAL Date Sealed 90/11/21 By: _____

Company: WASTE MANAGEMENT, INC. Attn.: DEE BRNCICH
 Facility/Site: TOWN OF DUNN Phone: () - _____
 Address: DANE COUNTY, WI

SAMPLE IDENTIFICATION

Facility: W M P Facility/Site Code (Optional Sample Point Descriptions)
 Sample Point: W-36WP25 Start Date 9/10/08 Start Time 0911 Elapsed Hours (composite)

Source Codes:
 Well (W) Outfall (O) Bottom Sediment (B) Surface Impoundment (I) Leachate Collection Sys. (C) Other (X)
 Soil (S) River/Stream (R) Generation Point (G) Treatment Facility (T) Lake/Ocean (L) Specify _____

SHUTTLE CONTENTS

| No | BOTTLE | | | ANALYSIS | SAMPLER | | LAB |
|----|--------|------|----------|---------------|------------|--------------|--------------|
| | Type | Size | Preserv. | | FIL. (Y/N) | Observations | Observations |
| 2 | VQA | 40 | HCL | CLP/VOLATILES | N | | ✓ |
| 1 | MET | 1000 | HNO3 | CLP/METALS | Y | | ✓ 7/6 full |
| 1 | CONU | 125 | NONE | CHLORIDE | N | | ✓ |
| 1 | FL | 125 | NONE | FLUORIDE | N | | ✓ |
| 1 | VS | 40 | HCL | VQA SCREEN | N | | ✓ |
| 2 | VTB | 40 | GC/MS, | VOLATILES | N | | ✓ BUBBLE |

CHAIN OF CUSTODY CHRONICLE

1 Shuttle Opened By: (print) John Y. Rudd Date: 11/27/99 Time: 9:32
 Signature: John Y. Rudd Seal #: 0182183 Intact: ✓

I have received these materials in good condition from the above person.
 2 Name: _____ Signature: _____
 Date: _____ Time: _____ Remarks: _____

I have received these materials in good condition from the above person.
 3 Name: John Y. Rudd Signature: John Y. Rudd 3A
 Date: 1-8-51 Time: 0700 Remarks: OIC

4 Shuttle Sealed By: (print) John Y. Rudd Date: 1-8-91 Time: 1600
 Signature: John Y. Rudd Seal #: 0182182 Intact: ✓

AB USE ONLY Opened By: A. Stampler Date: 1/9/91 Time: 1001
 SHUTTLE # 1090 TEMP. °C 6° SEAL # 182182 COND 2 Intact



FIELD PARAMETER FORM (CC2)

Form 0002
Sample Management
12/89

ETC JOB # CA5589
 Sample Point W 36WPZ15
Source Code Sample Point I.D.

FIELD PROCEDURES

9/10/10/8
PURGE DATE
(YY MM DD)

0814
START PURGE
(2400 Hr Clock)

115
ELAPSED HRS

169
WATER VOL. IN CASING
(Gallons)

675
VOLUME PURGED
(Gallons)

SAMPLING METHOD: BAKER

Sampler Type A-Submersible Pump D-Dipper/Bottle
 B-ISCO E-Bailer
 C-Bladder Pump F-Scoop/Shovel X-Other _____ (SPECIFY OTHER)

Sampler Material A-Teflon C-PVC
 B-Metal D-Plastic X-Other _____ (SPECIFY OTHER)

Tubing Material A-Teflon C-Polyethylene
 B-Tygon D-Silicon X-Other _____ (SPECIFY OTHER)

Sample Compositd

Procedure/Proportions

FIELD MEASUREMENTS

Well Elevation (ft/msl) 966.96 Well Depth (ft) 154.74
 Depth to Ground water (ft) 44.11 Sample Depth (non-well) (ft) _____
 Groundwater Elevation (ft msl) 922.85

| | | | | |
|--|---|--|----------------------------------|--------------------------------|
| 1st <u>7.43</u> (STD) <small>ph</small> | 1st <u>934</u> <small>spec. cond.</small> | <u>CH</u> <small>(other parameter)</small> | <u>+264</u> <small>value</small> | <u>ml</u> <small>units</small> |
| 2nd <u>7.33</u> (STD) <small>ph</small> | 2nd <u>925</u> <small>spec. cond.</small> | _____ <small>(other parameter)</small> | _____ <small>value</small> | _____ <small>units</small> |
| 3rd <u>7.29</u> (STD) <small>ph</small> | 3rd <u>928</u> <small>spec. cond.</small> | _____ <small>(other parameter)</small> | _____ <small>value</small> | _____ <small>units</small> |
| 4th <u>7.30</u> (STD) <small>ph</small> | 4th <u>917</u> <small>spec. cond.</small> | _____ <small>(other parameter)</small> | _____ <small>value</small> | _____ <small>units</small> |
| <u>8.5</u> (°C) <small>Sample Temp</small> | _____ <small>Turbidity</small> | _____ <small>NTU</small> | | |

FIELD COMMENTS

Sample Appearance: LIGHT GREY COLOR
 Weather Conditions: SNOW FLURRIES, 15° F, WIND EAST AT 5MPH
 Other: _____

FILTERING: Use Chain of Custody (CC1) to indicate which bottles were filtered

Sampler: John G. Rudd Employer: PELA 335
(Print)

I certify that sampling procedures were in accordance with applicable EPA state and corporate protocols.

1-8-51 John G. Rudd
(Date) (Signature)

CHAIN OF CUSTODY FORM (CC1) ORIGINAL

Date Sealed 11-20-90 By: KTS

Company: WMI Attn.: Don Gunn
 Facility/Site: Town of Swan (405) Phone: _____
 Address: _____

SAMPLE IDENTIFICATION

Facility: 141015 2 (Optional Sample Point Descriptions)
 Sample Point: W-35W-P-25 91101018 0911 _____
Source Code (from below) Your Sample Point ID (left justify) Start Date (YY/MM/DD) Start Time (2400 hr. clock) Elapsed Hours (composite)

Source Codes:
 Well (W) Outfall (O) Bottom Sediment (B) Surface Impoundment (I) Leachate Collection Sys. (C) Other (X)
 Soil (S) River/Stream (R) Generation Point (G) Treatment Facility (T) Lake/Ocean (L) Specify _____

SHUTTLE CONTENTS

| BOTTLE | | | | ANALYSIS | SAMPLER | | LAB |
|--------|------|------|----------|-------------------------------------|------------|--------------|--------------|
| No | Type | Size | Preserv. | | FILL (Y/N) | Observations | Observations |
| 1 | P | 250 | φ | TDS, Bicarbonate, Carbonate Sulfate | N | | full, cloudy |
| | | | | | | | |
| | | | | | | | |
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CHAIN OF CUSTODY CHRONICLE

1. Shuttle Opened By: (print) John G. Rudd Date: _____ Time: _____
 Signature: _____ Seal #: _____ Intact: _____

2. I have received these materials in good condition from the above person.
 Name: _____ Signature: _____
 Date: _____ Time: _____ Remarks: _____

3. I have received these materials in good condition from the above person.
 Name: John G. Rudd Signature: John G. Rudd
 Date: 1-8-91 Time: 0700 Remarks: OK 556

4. Shuttle Sealed By: (print) John G. Rudd Date: 1-8-91 Time: 1600
 Signature: John G. Rudd Seal #: 0442-0113 Intact:

LAB USE ONLY Opened By: Kelly Schick Date: 1-9-91 Time: 14:00
 SHUTTLE # _____ TEMP. °C 40 SEAL # 1412-1413 COND. Intact



FIELD PARAMETER FORM (CC2)

Form 0002
Sample Management
12/89

ETC JOB # CA5589
 Sample Point WJ 36WPIZ15
Source Code Sample Point I.D.

FIELD PROCEDURES

PURGE DATE (YY MM DD) 1911011018 START PURGE (2400 Hr Clock) 0811 ELAPSED HRS 11.5 WATER VOL. IN CASING (Gallons) 1166 VOLUME PURGED (Gallons) 1675

SAMPLING METHOD: BAILER

Sampler Type A-Submersible Pump D-Dipper/Bottle X-Other _____
 B-ISCO E-Bailer (SPECIFY OTHER) _____
 C-Bladder Pump F-Scoop/Shovel

Sampler Material A-Teflon C-PVC X-Other _____
 B-Metal D-Plastic (SPECIFY OTHER) _____

Tubing Material A-Teflon C-Polyethylene X-Other _____
 B-Tygon D-Silicon (SPECIFY OTHER) _____

Sample Composited Y N

Procedure/Proportions

FIELD MEASUREMENTS

Well Elevation (ft/msl) 966.96 Well Depth (ft) 54.74
 Depth to Ground water (ft) 44.11 Sample Depth (non-well) (ft) _____
 Groundwater Elevation (ft msl) 922.85

| | | | | |
|--|---|--|----------------------------------|--------------------------------|
| 1st <u>7.43</u> (STD) <small>ph</small> | 1st <u>934</u> <small>spec. cond.</small> | <u>EH</u> <small>(other parameter)</small> | <u>1264</u> <small>value</small> | <u>ml</u> <small>units</small> |
| 2nd <u>7.33</u> (STD) <small>ph</small> | 2nd <u>925</u> <small>spec. cond.</small> | _____ <small>(other parameter)</small> | _____ <small>value</small> | _____ <small>units</small> |
| 3rd <u>7.29</u> (STD) <small>ph</small> | 3rd <u>928</u> <small>spec. cond.</small> | _____ <small>(other parameter)</small> | _____ <small>value</small> | _____ <small>units</small> |
| 4th <u>7.30</u> (STD) <small>ph</small> | 4th <u>917</u> <small>spec. cond.</small> | _____ <small>(other parameter)</small> | _____ <small>value</small> | _____ <small>units</small> |
| <u>8.5</u> (°C) <small>Sample Temp</small> | _____ <small>Turbidity</small> | | | |

FIELD COMMENTS

Sample Appearance: Light grey color
 Weather Conditions: SNOW FLURRIES, 15°F, WIND EAST 50 MPH
 Other: _____

FILTERING: Use Chain of Custody (CC1) to indicate which bottles were filtered

Sampler: John G. Ruda Employer: PELA 337

I certify that sampling procedures were in accordance with applicable EPA state and corporate protocols.

1-8-91 John G. Ruda
(Date) (Signature)

CHAIN OF CUSTODY FORM (CC1)

ORIGINAL Date Sealed 90/11/21 By: _____

Company: WASTE MANAGEMENT, INC. Attn.: DEE BRNCICH
 Facility/Site: TOWN OF DUNN Phone: () - _____
 Address: DANE COUNTY, WI

SAMPLE IDENTIFICATION

Facility: W P F (Optional Sample Point Descriptions)
 Sample Point: W-3 GW FIB 9/0/08 09512
Source Code (from below) Your Sample Point ID (left justify) Start Date (YY/MM/DD) Start Time (2400 hr. clock) Elapsed Hours (composite)
 Source Codes: Well (W) Outfall (O) Bottom Sediment (B) Surface Impoundment (I) Leachate Collection Sys. (C) Other LAB DI H2O (X)
 Soil (S) River/Stream (R) Generation Point (G) Treatment Facility (T) Lake/Ocean (L) Specify _____

SHUTTLE CONTENTS

| NO | BOTTLE | | | ANALYSIS | SAMPLER | | LAB |
|----|--------|------|----------|---------------|------------|--------------|--------------|
| | Type | Size | Preserv. | | FILL (Y/N) | Observations | Observations |
| 1 | VDA | 40 | HCL | CLP/VOLATILES | N | | ✓ |
| 2 | VS | 40 | HCL | VDA SCREEN | N | | ✓ |
| 3 | MET | 1000 | HNO3 | CLP/METALS | N | | ✓ |
| 4 | COND | 125 | NONE | CHLORIDE | N | | ✓ |
| 5 | FL | 125 | NONE | FLUORIDE | N | | ✓ |
| | | | | | | | |
| | | | | | | | |
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CHAIN OF CUSTODY CHRONICLE

1 Shuttle Opened By: (print) John G. Rudd Date: 11/20/90 Time: 0830am
 Signature: John G. Rudd Seal #: 182173 Intact: ✓
 I have received these materials in good condition from the above person.
 Name: _____ Signature: _____
 Date: _____ Time: _____ Remarks: _____
 2 I have received these materials in good condition from the above person.
 Name: John G. Rudd Signature: John G. Rudd
 Date: 1-8-91 Time: 0700 Remarks: OK
 3 Shuttle Sealed By: (print) John G. Rudd Date: 1-8-91 Time: 538
 Signature: John G. Rudd Seal #: 0182172 Intact: ✓
 4 LAB USE ONLY Opened By: J. Stroscher Date: 1/10/91 Time: 1140
 SHUTTLE # 103 TEMP. °C 2° SEAL # 182172 COND. intact



FIELD PARAMETER FORM (CC2)

Form 0002
Sample Management
12/89

ETC JOB # CA5590

Sample Point

Source Code

3V-W-FB

Sample Point I.D.

FIELD PROCEDURES

9/19/08
PURGE DATE
(YY MM DD)

0652
START TIME
(2400 Hr Clock)

ELAPSED HRS

WATER VOL. IN CASING
(Gallons)

VOLUME PURGED
(Gallons)

SAMPLING METHOD:

TRANSFER LAB DI K2O TO SAMPLE CONTAINERS

Sampler Type

A-Submersible Pump
B-ISCO
C-Bladder Pump

D-Dipper/Bottle
E-Batter
F-Scoop/Shovel

X-Other

(SPECIFY OTHER)

Sampler Material

A-Teflon
B-Metal

C-PVC
D-Plastic

X-Other

(SPECIFY OTHER)

Tubing Material

A-Teflon
B-Tygon

C-Polyethylene
D-Silicon

X-Other

(SPECIFY OTHER)

Sample Composed

Y

Procedure/Proportions

FIELD MEASUREMENTS

Well Elevation (ft/msl)

101.5

Well Depth (ft)

10.0

Depth to Ground water (ft)

11.5

Sample Depth (non-well) (ft)

1.0

Groundwater Elevation (ft msl)

89.5

1st

7.5

(STD)

ph

1st

150

spec. cond.

un/cm
at 25°C

10.0

(other parameter)

10.0

value

ml

units

2nd

7.5

(STD)

ph

2nd

150

spec. cond.

un/cm
at 25°C

10.0

(other parameter)

10.0

value

ml

units

3rd

7.5

(STD)

ph

3rd

150

spec. cond.

un/cm
at 25°C

10.0

(other parameter)

10.0

value

ml

units

4th

7.5

(STD)

ph

4th

150

spec. cond.

un/cm
at 25°C

10.0

(other parameter)

10.0

value

ml

units

15.0
Sample Temp (°C)

0.5
Turbidity NTU

FIELD COMMENTS

Sample Appearance:

CLEAR / NO ODOR

Weather Conditions:

SNOW FLURRIES, 15°F, WIND EAST 5MPH

Other:

FILTERING: Use Chain of Custody (CC1) to indicate which bottles were filtered

Sampler:

(Print)

John Y. Rudd

Employer:

PELA

339

I certify that sampling procedures were in accordance with applicable EPA state and corporate protocols.

1-8-01
(Date)

John Y. Rudd
(Signature)

ORIGINAL

CHAIN OF CUSTODY FORM (CC1) ORIGINAL

Date Sealed 11-21-90 By: KTS

Company: WMI Attn.: Don Bunn
 Facility/Site: Town of Sunn (465) Phone: _____
 Address: _____

SAMPLE IDENTIFICATION

Facility: 14015 12 (Optional Sample Point Descriptions)
 Sample Point: 316WFB 911011018 091512
Source Code (from below) Your Sample Point ID (left justify) Start Date (YY/MM/DD) Start Time (2400 hr. clock) Elapsed Hours (composite)

Source Codes:
 Well (W) Outfall (O) Bottom Sediment (B) Surface Impoundment (I) Leachate Collection Sys. (C) Other LAB. DI. H2O (X)
 Soil (S) River/Stream (R) Generation Point (G) Treatment Facility (T) Lake/Ocean (L) Specify _____

SHUTTLE CONTENTS

| BOTTLE | | | | ANALYSIS | SAMPLER | | LAB |
|--------|------|------|----------|--------------------------------------|------------|--------------|--------------|
| No | Type | Size | Preserv. | | FIL. (Y/N) | Observations | Observations |
| 1 | P | 250 | φ | TDS, Carbonate, Bicarbonate, Sulfate | al | | full, clear |
| | | | | | | | |
| | | | | | | | |
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CHAIN OF CUSTODY CHRONICLE

1. Shuttle Opened By: (print) John G. Rudd Date: 11-21-90 Time: 14:00
 Signature: [Signature] Seal #: 1454-1455 Intact: ✓

I have received these materials in good condition from the above person.
 2. Name: _____ Signature: _____
 Date: _____ Time: _____ Remarks: _____

I have received these materials in good condition from the above person.
 3. Name: John G. Rudd Signature: [Signature]
 Date: 1-8-91 Time: 0700 Remarks: OK

4. Shuttle Sealed By: (print) John G. Rudd Date: 1-8-91 Time: 1600
 Signature: [Signature] Seal #: 1412-1413 Intact: ✓

LAB USE ONLY Opened By: Kelly Schuck Date: 1-9-91 Time: 14:00
 SHUTTLE # _____ TEMP. °C 4 SEAL # H12-1413 COND. Intact



FIELD PARAMETER FORM (CC2)

Form 0002
Sample Management
12/89

ETC JOB # CA5590

Sample Point VI 316W/F18

Source Code Sample Point I.D.

FIELD PROCEDURES

9/11/01 10:18
PURGE DATE
(YY MM DD)

0191512
START PURGE
(2400 Hr Clock)

ELAPSED HRS

WATER VOL. IN CASING
(Gallons)

VOLUME PURGED
(Gallons)

SAMPLING METHOD: TRANSFER LAB DI H₂O TO SAMPLE CONTAINER

Sampler Type A-Submersible Pump D-Dipper/Bottle
 B-ISCO E-Bailer X-Other _____
 C-Bladder Pump F-Scoop/Shovel (SPECIFY OTHER)

Sampler Material A-Teflon C-PVC X-Other _____
 B-Metal D-Plastic (SPECIFY OTHER)

Tubing Material A-Teflon C-Polyethylene X-Other _____
 B-Tygon D-Silicon (SPECIFY OTHER)

Sample Composited Y N

Procedure/Proportions

FIELD MEASUREMENTS

Well Elevation (ft/msl)

Well Depth (ft)

Depth to Ground water (ft)

Sample Depth (non-well) (ft)

Groundwater Elevation (ft msl)

1st (STD) 1st
 pH spec. cond. um/cm at 25°C (other parameter) value units

2nd (STD) 2nd
 pH spec. cond. um/cm at 25°C (other parameter) value units

3rd (STD) 3rd
 pH spec. cond. um/cm at 25°C (other parameter) value units

4th (STD) 4th
 pH spec. cond. um/cm at 25°C (other parameter) value units

 (°C)
Sample Temp

 NTU
Turbidity

FIELD COMMENTS

Sample Appearance: CLEAR / NO ODR

Weather Conditions: SNOW FLURRIES, 15° F, WIND EAST 5MPH

Other: _____

FILTERING: Use Chain of Custody (CC1) to indicate which bottles were filtered

Sampler: John G. Rudd (Print) Employer: PELA

I certify that sampling procedures were in accordance with applicable EPA state and corporate protocols.

1-8-91 (Date) John G. Rudd (Signature)

344

Company: WASTE MANAGEMENT, INC. Attn.: DEE BRNCICH

Facility/Site: TOWN OF DUNN Phone: () - _____

Address: DANE COUNTY, WI

SAMPLE IDENTIFICATION

Facility: W U 5 Facility/Site Code (Optional Sample Point Descriptions)

Sample Point: W-3 GWPZ 111D | 91101108 | 110197 | _____ | _____

Source Code (from below) Your Sample Point ID (left justify) Start Date (YY/MM/DD) Start Time (2400 hr. clock) Elapsed Hours (composite)

Source Codes:
 Well (W): _____ Outfall (O): _____ Bottom Sediment (B): _____ Surface Impoundment (I): _____ Leachate Collection Sys. (C): _____ Other (X): _____
 Soil (S): _____ River/Stream (R): _____ Generation Point (G): _____ Treatment Facility (T): _____ Lake/Ocean (L): _____ Specify _____

SHUTTLE CONTENTS

| BOTTLE | | | | ANALYSIS | SAMPLER | | LAB |
|--------|------|----------|-----------|---------------|--------------|--------------|------------|
| Type | Size | Preserv. | FHL (Y/N) | | Observations | Observations | |
| 2 | VOA | 40 | HCL | CLP/VOLATILES | N | | ✓ |
| 1 | VS | 40 | HCL | VOA SCREEN | N | | ✓ |
| 1 | MET | 1000 | HNO3 | CLP/METALS | Y | | ✓ 2/3 full |
| 1 | COND | 125 | NONE | CHLORIDE | N | | ✓ |
| 1 | FL | 125 | NONE | FLUORIDE | N | | ✓ |
| 1 | VTB | 40 | GC/MS, | VOLATILES | N | | ✓ BUBBLE |
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CHAIN OF CUSTODY CHRONICLE

1. Shuttle Opened By: (print) John Y. Rudd Date: 11/30/90 Time: 0830
 Signature: John Y. Rudd Seal #: 182173 Intact: ✓

I have received these materials in good condition from the above person.
 Name: _____ Signature: _____
 Date: _____ Time: _____ Remarks: _____

3. I have received these materials in good condition from the above person.
 Name: John Y. Rudd Signature: John Y. Rudd
 Date: 1-8-91 Time: 0700 Remarks: OK

4. Shuttle Sealed By: (print) John Y. Rudd Date: 1-8-91 Time: 1208
 Signature: John Y. Rudd Seal #: 0182172 Intact: ✓

LAB USE ONLY Opened By: R. Stangler Date: 1/10/91 Time: 1140
 SHUTTLE # 103 TEMP. °C 2 SEAL # 182172 COND. Intact



FIELD PARAMETER FORM (CC2)

Form 0002
Sample Management
12/89

ETC JOB # CA5591
Sample Point W 31621P2111D
Source Code _____ Sample Point I.D. _____

FIELD PROCEDURES

91101018
PURGE DATE
(YY MM DD)

018110
START PURGE
(2400 Hr Clock)

1118
ELAPSED HRS

15315
WATER VOL. IN CASING
(Gallons)

121141
VOLUME PURGED
(Gallons)

SAMPLING METHOD: BALLER

Sampler Type E A-Submersible Pump D-Dipper/Bottle
 B-ISCO E-Baller X-Other _____ (SPECIFY OTHER)
 C-Bladder Pump F-Scoop/Shovel

Sampler Material A A-Teflon C-PVC X-Other _____ (SPECIFY OTHER)
 B-Metal D-Plastic

Tubing Material A-Teflon C-Polyethylene X-Other _____ (SPECIFY OTHER)
 B-Tygon D-Silicon

Sample Composited Y/N

Procedure/Proportions

FIELD MEASUREMENTS

Well Elevation (ft/msl) 940.15 Well Depth (ft) 53.34
 Depth to Ground water (ft) 19.55 Sample Depth (non-well) (ft) _____
 Groundwater Elevation (ft msl) 920.60

| | |
|--|--|
| 1st <u>11.40</u> (STD) <u>623</u> <u>PH</u> <u>10.66</u> <u>MM</u> ph spec. cond. (other parameter) value units | 1st _____ <u>623</u> <u>um/cm at 25 °C</u> |
| 2nd <u>11.41</u> (STD) _____ <u>629</u> _____ _____ ph spec. cond. (other parameter) value units | 2nd _____ <u>629</u> <u>um/cm at 25 °C</u> |
| 3rd <u>11.39</u> (STD) _____ <u>597</u> _____ _____ ph spec. cond. (other parameter) value units | 3rd _____ <u>597</u> <u>um/cm at 25 °C</u> |
| 4th <u>11.41</u> (STD) _____ <u>578</u> _____ _____ ph spec. cond. (other parameter) value units | 4th _____ <u>578</u> <u>um/cm at 25 °C</u> |
| <u>4.5</u> (°C) _____ NTU Sample Temp Turbidity | |

FIELD COMMENTS

Sample Appearance: LIGHT GRAY & PINK COLOR / NO ODOR
 Weather Conditions: SNOW FLURRIES, 15°F, WIND EAST 5MPH
 Other: _____

FILTERING: Use Chain of Custody (CC1) to indicate which bottles were filtered

Sampler: John Y Rhoad (Print) Employer: PELA 343

I certify that sampling procedures were in accordance with applicable EPA state and corporate protocols.

1-8-90 John Y Rhoad
(Date) (Signature)

ORIGINAL

CHAIN OF CUSTODY FORM (CC1)

ORIGINAL Date Sealed 11-21-90 By: KTS

Company: Wm Attn: Dan Green
Facility/Site: Town of Dunn (465) Phone: _____
Address: _____

SAMPLE IDENTIFICATION

Facility: 41015 2
Sample Point: W-364PZ111D 91101018 11037
Source Code (from below) Your Sample Point ID (left justify) Start Date (YY/MM/DD) Start Time (2400 hr clock) Elapsed Hours (composite)

Source Codes Well (W) Outfall (O) Bottom Sediment (B) Surface Impoundment (I) Leachate Collection Sys. (C) Other (X)
River/Stream (R) Generation Point (G) Treatment Facility (T) Lake/Ocean (L) Specify _____

SHUTTLE CONTENTS

| BOTTLE | | | | ANALYSIS | SAMPLER | | LAB |
|--------|------|------|----------|-------------------------------------|------------|--------------|--------------|
| No | Type | Size | Preserv. | | FILL (Y/N) | Observations | Observations |
| 1 | P | 250 | Ø | TDS, Bicarbonate, Carbonate Sulfate | N | | full, clear |
| | | | | | | | |
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CHAIN OF CUSTODY CHRONICLE

Shuttle Opened By: (print) _____ Date: _____ Time: _____
Signature: _____ Seal #: _____ Intact: _____

I have received these materials in good condition from the above person.
Name: _____ Signature: _____
Date: _____ Time: _____ Remarks: _____

I have received these materials in good condition from the above person.
Name: John Y. Rudd Signature: John Y. Rudd 344
Date: 1-8-91 Time: 0700 Remarks: OK

Shuttle Sealed By: (print) John Y. Rudd Date: 1-8-91 Time: 1600
Signature: John Y. Rudd Seal #: 01412-01413 Intact: ✓

LAB USE ONLY Opened By: Kelly Schell Date: 1-9-91 Time: 14:00
SHUTTLE # _____ TEMP. °C 40 SEAL # 1412-1413 COND Intact



FIELD PARAMETER FORM (CC2)

Form 0002
Sample Management
12/89

ETC JOB # CA5591

Sample Point W 364PZ111D
Source Code Sample Point I.D.

FIELD PROCEDURES

9/10/08
PURGE DATE
(YY MM DD)

08:10
START PURGE
(2400 Hr Clock)

118
ELAPSED HRS

1535
WATER VOL IN CABING
(Gallons)

28141
VOLUME PURGED
(Gallons)

SAMPLING METHOD: BAUER

Sampler Type E A-Submersible Pump D-Dipper/Bottle
B-ISCO E-Bailer X-Other _____ (SPECIFY OTHER)
C-Bladder Pump F-Scoop/Shovel

Sampler Material A A-Teflon C-PVC
B-Metal D-Plastic X-Other _____ (SPECIFY OTHER)

Tubing Material A-Teflon C-Polyethylene
B-Tygon D-Silicon X-Other _____ (SPECIFY OTHER)

Sample Composed Y/N

Procedure/Proportions

FIELD MEASUREMENTS

Well Elevation (ft/msl) 940.15

Well Depth (ft) 53.34

Depth to Ground water (ft) 15.56

Sample Depth (non-well) (ft) _____

Groundwater Elevation (ft msl) 920.60

1st 11.40 (STD) 1st 623 um/cm at 25 °C CH 4066 ML
pH spec. cond. (other parameter) value units

2nd 11.41 (STD) 2nd 629 um/cm at 25 °C _____ value units
pH spec. cond. (other parameter)

3rd 11.35 (STD) 3rd 597 um/cm at 25 °C _____ value units
pH spec. cond. (other parameter)

4th 11.41 (STD) 4th 578 um/cm at 25 °C _____ value units
pH spec. cond. (other parameter)

4.5 (°C) _____ NTU
Sample Temp Turbidity

FIELD COMMENTS

Sample Appearance: LIGHT GREY + PINK COLOR / NO ODOR

Weather Conditions: SNOW FLURRIES, 15° F, WIND EAST 5 MPH

Other: _____

FILTERING: Use Chain of Custody (CC1) to indicate which bottles were filtered

Sampler: John G. Rudd Employer: PELA 345
(Print)

I certify that sampling procedures were in accordance with applicable EPA state and corporate protocols.

1-8-91 John G. Rudd
Date Signature

CHAIN OF CUSTODY FORM (CC1)

ORIGINAL Date Sealed 90/11/21 By: _____

Company: WASTE MANAGEMENT, INC.

Attn.: DEE BRNCICH

Facility/Site: TOWN OF DUNN

Phone: () -

Address: , DANE COUNTY, WI

SAMPLE IDENTIFICATION

Facility: W P F Facility/Site Code (Optional Sample Point Descriptions)

Sample Point: W-3-GWP-21115 91101108 0850
Source Code (from below) Your Sample Point ID (left justify) Start Date (YY/MM/DD) Start Time (2400 hr clock) Elapsed Hours (composite)

Source Codes:
 Well (W) Outfall (O) Bottom Sediment (B) Surface Impoundment (I) Leachate Collection Sys. (C) Other (X)
 Soil (S) River/Stream (R) Generation Point (G) Treatment Facility (T) Lake/Ocean (L) Specify _____

SHUTTLE CONTENTS

| BOTTLE | | | | ANALYSIS | SAMPLER | | LAB |
|--------|------|------|----------|---------------|------------|--------------|--------------|
| No | Type | Size | Preserv. | | FIL. (Y/N) | Observations | Observations |
| 2 | VOA | 40 | HCL | CLP/VOLATILES | N | | ✓ |
| 1 | VS | 40 | HCL | VOA SCREEN | N | | ✓ |
| 1 | MET | 1000 | HNO3 | CLP/METALS | Y | | ✓ |
| 1 | IONU | 125 | NONE | CHLORIDE | N | | ✓ |
| 1 | FL | 125 | NONE | FLUORIDE | N | | ✓ |
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CHAIN OF CUSTODY CHRONICLE

1 Shuttle Opened By: (print) John G. Rudd Date: 11/30/90 Time: 07:36 AM
 Signature: John G. Rudd Seal #: _____ Intact: ✓

I have received these materials in good condition from the above person.
 2 Name: _____ Signature: _____
 Date: _____ Time: _____ Remarks: _____

I have received these materials in good condition from the above person.
 3 Name: John G. Rudd Signature: John G. Rudd
 Date: 1-8-91 Time: 0700 Remarks: OK 346

4 Shuttle Sealed By: (print) John G. Rudd Date: 1-8-91 Time: 1600
 Signature: John G. Rudd Seal #: 0182188 Intact: ✓

LAB USE ONLY Opened By: A. Stender Date: 1/9/91 Time: 1020
 SHUTTLE # 839 TEMP. °C 60 SEAL # 182188 COND. Intact



FIELD PARAMETER FORM (CC2)

Form 0002
Sample Management
12/89

ETC JOB # CA 5592
Sample Point W B GARPELLIS
Source Code Sample Point I.D.

FIELD PROCEDURES

9/18/10/8
PURGE DATE
(YY MM DD)

08/10
START PURGE
(2400 Hr Clock)

1/15
ELAPSED HRS

1/10/1
WATER VOL. IN CASING
(Gallons)

140/4
VOLUME PURGED
(Gallons)

SAMPLING METHOD: BAILER

Sampler Type A-Submersible Pump D-Dipper/Bottle
 B-ISCO E-Bailer
 C-Bladder Pump F-Scoop/Shovel X-Other _____
(SPECIFY OTHER)

Sampler Material A-Teflon C-PVC
 B-Metal D-Plastic X-Other _____
(SPECIFY OTHER)

Tubing Material A-Teflon C-Polyethylene
 B-Tygon D-Silicon X-Other _____
(SPECIFY OTHER)

Sample Composited Y/N

Procedure/Proportions

FIELD MEASUREMENTS

Well Elevation (ft/msl) 940.34

Well Depth (ft) 105.95

Depth to Ground water (ft) 19.80

Sample Depth (non-well) (ft) _____

Groundwater Elevation (ft msl) 920.54

1st 7.02 (STD) ph 1st 11042 um/cm at 25 °C
spec. cond.

PH -0.28 value ml units
(other parameter)

2nd 6.97 (STD) ph 2nd 11061 um/cm at 25 °C
spec. cond.

_____ (other parameter) _____ value _____ units

3rd 6.95 (STD) ph 3rd 11062 um/cm at 25 °C
spec. cond.

_____ (other parameter) _____ value _____ units

4th 6.94 (STD) ph 4th 11061 um/cm at 25 °C
spec. cond.

_____ (other parameter) _____ value _____ units

6.8 (°C)
Sample Temp

_____ NTU
Turbidity

FIELD COMMENTS

Sample Appearance: DARK BROWN COLOR

Weather Conditions: SNOW FLURRIES, 15°B, WIND EAST 5 MPH

Other: _____

FILTERING: Use Chain of Custody (CC1) to indicate which bottles were filtered

Sampler: John Y. Rudd Employer: PELA 347
(Print)

I certify that sampling procedures were in accordance with applicable EPA state and corporate protocols.

1-8-91 John Y. Rudd
(Date) (Signature)

CHAIN OF CUSTODY FORM (CC1) ORIGINAL Date Sealed 11-20-90 By: KTS

Company: WME Attn: Dan Green
 Facility/Site: Town of Sunn (405) Phone: _____
 Address: _____

SAMPLE IDENTIFICATION

Facility: 405 | 2 (Optional Sample Point Descriptions)
 Sample Point: W-316W PZ 1115 | 911011018 | 081510 | _____
Source Code (from below) Your Sample Point ID (left justify) Start Date (YY/MM/DD) Start Time (2400 hr. clock) Elapsed Hours (composite)

Source Codes
 Well (W) Outfall (O) Bottom Sediment (B) Surface Impoundment (I) Leachate Collection Sys. (C) Other (X)
 Stream (S) River/Stream (R) Generation Point (G) Treatment Facility (T) Lake/Ocean (L) Specify _____

SHUTTLE CONTENTS

| BOTTLE | | | | ANALYSIS | SAMPLER | | LAB |
|--------|------|------|----------|---------------------------------------|-----------|--------------|--------------|
| No | Type | Size | Preserv. | | FIL (Y/N) | Observations | Observations |
| 1 | P | 250 | φ | TDS, Bicarbonate, Carbonate suspte | N | | full, dark |
| | | | | | | | |
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CHAIN OF CUSTODY CHRONICLE

Shuttle Opened By: (print) _____ Date: _____ Time: _____
 Signature: _____ Seal #: _____ Intact: _____
 I have received these materials in good condition from the above person.
 Name: _____ Signature: _____
 Date: _____ Time: _____ Remarks: _____
 I have received these materials in good condition from the above person.
 Name: John G Rudd Signature: John G Rudd
 Date: 1-8-91 Time: 0700 Remarks: OK 348
 Shuttle Sealed By: (print) John G. Rudd Date: 1-8-91 Time: 1600
 Signature: John G Rudd Seal #: 01412-0145 Intact:
 LAB USE ONLY Opened By: Kelly Schell Date: 1-9-91 Time: 14:00
 SHUTTLE # _____ TEMP. °C 4° SEAL # 1412-1413 COND. Intact



FIELD PARAMETER FORM (CC2)

Form 0002
Sample Management
12/89

ETC JOB # CA5592
 Sample Point W 1316W P 211151
Source Code Sample Point I.D.

FIELD PROCEDURES

9/11/01 10:08
PURGE DATE (YY MM DD)

10:08 10
START PURGE (2400 Hr Clock)

1115
ELAPSED HRS

111011
WATER VOL IN CASING (Gallons)

14014
VOLUME PURGED (Gallons)

SAMPLING METHOD: Bailer

SAMPLER TYPE: A-Submersible Pump D-Dipper/Bottle
 B-ISCO E-Bailer
 C-Bladder Pump F-Scoop/Shovel X-Other _____ (SPECIFY OTHER)

SAMPLER MATERIAL: A-Teflon C-PVC
 B-Metal D-Plastic X-Other _____ (SPECIFY OTHER)

TUBING MATERIAL: A-Teflon C-Polyethylene
 B-Tygon D-Silicon X-Other _____ (SPECIFY OTHER)

SAMPLE COMPOSITED: Y N Procedure/Proportions _____

FIELD MEASUREMENTS

Well Elevation (ft/msl) 1940.34 Well Depth (ft) 125.59
 Depth to Ground water (ft) 115.80 Sample Depth (non-well) (ft) _____
 Groundwater Elevation (ft msl) 1920.54

| 1st | 2nd | 3rd | 4th | Sample Temp | Turbidity | PH | value | units |
|-------------------------------------|---|---|---|-----------------|-----------|-----------|-------------|-----------|
| <u>1702</u> (STD) <small>ph</small> | <u>11042</u> <small>um/cm at 25°C</small> | <u>11061</u> <small>um/cm at 25°C</small> | <u>11061</u> <small>um/cm at 25°C</small> | <u>618</u> (°C) | _____ NTU | <u>PH</u> | <u>-028</u> | <u>mV</u> |
| <u>1697</u> (STD) <small>ph</small> | <u>11061</u> <small>um/cm at 25°C</small> | <u>11062</u> <small>um/cm at 25°C</small> | <u>11061</u> <small>um/cm at 25°C</small> | | | | | |
| <u>1695</u> (STD) <small>ph</small> | <u>11062</u> <small>um/cm at 25°C</small> | <u>11062</u> <small>um/cm at 25°C</small> | <u>11061</u> <small>um/cm at 25°C</small> | | | | | |
| <u>1694</u> (STD) <small>ph</small> | <u>11061</u> <small>um/cm at 25°C</small> | <u>11061</u> <small>um/cm at 25°C</small> | <u>11061</u> <small>um/cm at 25°C</small> | | | | | |

FIELD COMMENTS

Sample Appearance: DARK BROWN COLOR
 Weather Conditions: SNOW GULLIES, 15°9, WIND EAST 5 MPH
 Other: _____

FILTERING: Use Chain of Custody (CC1) to indicate which bottles were filtered

Sampler: JOHN Y. RUDD Employer: PELD **349**

I certify that sampling procedures were in accordance with applicable EPA state and corporate protocols.

1-8-71 John Y. Rudd
(Date) (Signature)

CHAIN OF CUSTODY FORM (CC1) ORIGINAL

Company: WASTE MANAGEMENT, INC. Attn: DEE BRNCICH
 Facility/Site: TOWN OF DUNN Phone: () -
 Address: , DANE COUNTY, WI

SAMPLE IDENTIFICATION

Facility: 405 Facility/Site Code (Optional Sample Point Descriptions)
 Sample Point: X1-36WFB 911011018 0930
Source Code (from below) Your Sample Point ID (left justify) Start Date (YY/MM/DD) Start Time (2400 hr. clock) Elapsed Hours (composite)
 Source Codes: Well (W) Outfall (O) Bottom Sediment (B) Surface Impoundment (I) Leachate Collection Sys. (C) Other LAB WATER (X)
 Soil (S) River/Stream (R) Generation Point (G) Treatment Facility (T) Lake/Ocean (L) Specify _____

SHUTTLE CONTENTS

| BOTTLE | | | | ANALYSIS | SAMPLER | | LAB |
|--------|------|------|----------|---------------|-------------|--------------|------------------|
| No | Type | Size | Preserv. | | Filt. (Y/N) | Observations | Observations |
| 2 | UDA | 40 | HCL | CLP/VOLATILES | N | | ✓ JOH # 2 BUBBLE |
| 1 | VS | 40 | HCL | UDA SCREEN | N | | ✓ |
| 1 | MET | 1000 | HNO3 | CLP/METALS | N | | ✓ |
| 1 | CONU | 125 | NONE | CHLORIDE | N | | ✓ |
| 1 | FL | 125 | NONE | FLUORIDE | N | | ✓ |
| 2 | VTB | 40 | GC/MS, | VOLATILES | N | | ✓ BUBBLE |
| | | | | | | | |
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CHAIN OF CUSTODY CHRONICLE

1. Shuttle Opened By: (print) John Y. Rudd Date: 11/30/90 Time: 7:30 AM
 Signature: John Y. Rudd Seal #: 182185 Intact: ✓
 I have received these materials in good condition from the above person.
 Name: _____ Signature: _____
 Date: _____ Time: _____ Remarks: _____
 I have received these materials in good condition from the above person.
 Name: John Y. Rudd Signature: John Y. Rudd
 Date: 1-8-91 Time: _____ Remarks: OK 350
 4. Shuttle Sealed By: (print) John Y. Rudd Date: 1-8-91 Time: 1600
 Signature: John Y. Rudd Seal #: 0182188 Intact: ✓
 LAB USE ONLY Opened By: D. Stensler Date: 1/9/91 Time: 10:50
 SHUTTLE # 839 TEMP. °C 6° SEAL # 1182188 COND. Distilled

CHAIN OF CUSTODY FORM (CC1) ORIGINAL Date Sealed 11-20-90 By: KTS

Company: WMI Attn.: Dan Green

Facility/Site: Turn of Dunn (425) Phone: _____

Address: _____

SAMPLE IDENTIFICATION

Facility: 41015 2 (Optional Sample Point Descriptions)

Sample Point: V-3162 FIB 91 01 08 09 30
Source Code (from below) Your Sample Point ID (left justify) Start Date (YY/MM/DD) Start Time (2400 hr clock) Elapsed Hours (composite)

Source Codes
 (W) Outfall (O) Bottom Sediment (B) Surface Impoundment (I) Leachate Collection Sys. (C) Other (X)
 (S) River/Stream (R) Generation Point (G) Treatment Facility (T) Lake/Ocean (L) Specify _____

SHUTTLE CONTENTS

| BOTTLE | | | | ANALYSIS | SAMPLER | | LAB |
|--------|------|------|----------|-------------------------------------|-------------|--------------|--------------|
| No | Type | Size | Preserv. | | Filt. (Y/N) | Observations | Observations |
| 1 | P | 250 | Ø | TDS, Bicarbonate, Carbonate Sulfate | N | | full, clear |
| | | | | | | | |
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CHAIN OF CUSTODY CHRONICLE

Shuttle Opened By: (print) _____ Date: _____ Time: _____
 Signature: _____ Seal #: _____ Intact: _____

I have received these materials in good condition from the above person.
 Name: _____ Signature: _____
 Date: _____ Time: _____ Remarks: _____

I have received these materials in good condition from the above person.
 Name: John G. Rudd Signature: John G. Rudd
 Date: 1-8-91 Time: 0700 Remarks: OK 352

Shuttle Sealed By: (print) John G. Rudd Date: 1-8-91 Time: 1600
 Signature: John G. Rudd Seal #: 0412-0413 Intact: ✓

LAB USE ONLY Opened By: Kelly Schell Date: 1-9-91 Time: 14:00
 SHUTTLE # _____ TEMP. °C 4 SEAL # 1412-1413 COND. Intact



FIELD PARAMETER FORM (CC2)

Form 0002
Sample Management
12/89

ETC JOB # CA5593
 Sample Point 13VW1B _____
Source Code Sample Point I.D.

FIELD PROCEDURES

9/10/08
PURGE DATE (YY MM DD)

17
START PURGE (2400 Hr Clock)

4
ELAPSED HRS

1
WATER VOL. IN CASING (Gallons)

1
VOLUME PURGED (Gallons)

SAMPLING METHOD:

Sampler Type A-Submersible Pump D-Dipper/Bottle
 B-ISCO E-Bailer X-Other _____ (SPECIFY OTHER)
 C-Bladder Pump F-Scoop/Shovel
 Sampler Material A-Teflon C-PVC X-Other _____ (SPECIFY OTHER)
 B-Metal D-Plastic
 Tubing Material A-Teflon C-Polyethylene X-Other _____ (SPECIFY OTHER)
 B-Tygon D-Silicon
 Sample Compositing Y/N _____
Procedure/Proportions

FIELD MEASUREMENTS

| | | | |
|--------------------------------|-----------------|------------------------------|-----------------|
| Well Elevation (ft/msl) | <u> </u> | Well Depth (ft) | <u> </u> |
| Depth to Ground water (ft) | <u> </u> | Sample Depth (non-well) (ft) | <u> </u> |
| Groundwater Elevation (ft msl) | <u> </u> | | |

| | | | | | |
|---|--|--|--|--------------------------------------|--------------------------------------|
| 1st <u> </u> (STD) <small>ph</small> | 1st <u> </u> <small>spec. cond.</small> | <u> </u> <small>um/cm at 25°C</small> | <u> </u> <small>(other parameter)</small> | <u> </u> <small>value</small> | <u> </u> <small>units</small> |
| 2nd <u> </u> (STD) <small>ph</small> | 2nd <u> </u> <small>spec. cond.</small> | <u> </u> <small>um/cm at 25°C</small> | <u> </u> <small>(other parameter)</small> | <u> </u> <small>value</small> | <u> </u> <small>units</small> |
| 3rd <u> </u> (STD) <small>ph</small> | 3rd <u> </u> <small>spec. cond.</small> | <u> </u> <small>um/cm at 25°C</small> | <u> </u> <small>(other parameter)</small> | <u> </u> <small>value</small> | <u> </u> <small>units</small> |
| 4th <u> </u> (STD) <small>ph</small> | 4th <u> </u> <small>spec. cond.</small> | <u> </u> <small>um/cm at 25°C</small> | <u> </u> <small>(other parameter)</small> | <u> </u> <small>value</small> | <u> </u> <small>units</small> |
| <u> </u> <small>Sample Temp (°C)</small> | <u> </u> <small>Turbidity NTU</small> | | | | |

FIELD COMMENTS

Sample Appearance: CLEAR / NO ODOUR
 Weather Conditions: SNOW & GLACIER, 15° F, WIND: EAST 5 MPH
 Other: DI FROM ETC LAB, P2115 SITE

FILTERING: Use Chain of Custody (CC1) to indicate which bottles were filtered

Sampler: John G. Rudd Employee: PELA 353

I certify that sampling procedures were in accordance with applicable EPA state and corporate protocols.

1-8-91 John G. Rudd
Date Signature

ORIGINAL

CHAIN OF CUSTODY FORM (CC1) ORIGINAL Date Sealed 9/11/21 By: _____

Company: WASTE MANAGEMENT, INC. Attn.: DEE BRNICH
 Facility/Site: TOWN OF DUNN Phone: () -
 Address: DANE COUNTY, WI

SAMPLE IDENTIFICATION

Facility: 4 0 5 Puplicate
 Sample Point: UBG APR 11 I RW 9/10/21 09:29
Source Code (from below) Your Sample Point ID (left justify) Start Date (YY/MM/DD) Start Time (2400 hr. clock) Elapsed Hours (composite)

Source Codes:
 Well (W) Outfall (O) Bottom Sediment (B) Surface Impoundment (I) Leachate Collection Sys. (C) Other (X)
 Soil (S) River/Stream (R) Generation Point (G) Treatment Facility (T) Lake/Ocean (L) Specify _____

SHUTTLE CONTENTS

| BOTTLE | | | | ANALYSIS | SAMPLER | | LAB |
|--------|------|------|----------|---------------|------------|--------------|--------------|
| No | Type | Size | Preserv. | | FIL. (Y/N) | Observations | Observations |
| 2 | VQA | 40 | HCL | CLP/VOLATILES | N | | ✓ |
| 1 | MET | 1000 | HNO3 | CLP/METALS | N | | ✓ |
| 1 | COND | 125 | NONE | CHLORIDE | N | | ✓ |
| 1 | FL | 125 | NONE | FLUORIDE | N | | ✓ |
| | | | | | | | |
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CHAIN OF CUSTODY CHRONICLE

1 Shuttle Opened By: (print) John Y. Rudd Date: 11/27/20 Time: 12:15 PM
 Signature: John Y. Rudd Seal #: 182175 Intact: ✓
 I have received these materials in good condition from the above person.
 2 Name: _____ Signature: _____
 Date: _____ Time: _____ Remarks: _____
 I have received these materials in good condition from the above person.
 3 Name: _____ Signature: _____
 Date: _____ Time: _____ Remarks: 354
 Shuttle Sealed By: (print) Michael M. Alexander Date: 1-7-91 Time: 12:45
 Signature: Michael M. Alexander Seal #: 182174 Intact: ✓
 LAB USE ONLY Opened By: H. S. Snelson Date: 1/9/91 Time: 9:58
 SHUTTLE # 143 TEMP. °C 60 SEAL # 182174 COND. Intact



FIELD PARAMETER FORM (CC2)

Form 0002
Sample Management
12/89

ETC JOB # 182174
CA 5597
Sample Point W136WVZV11724
Source Code _____ Sample Point I.D. _____

FIELD PROCEDURES

9/19/07
PURGE DATE
(YY MM DD)

0815
START PURGE
(2400 Hr Clock)

1/25
ELAPSED HRS

1412
WATER VOL. IN CASING
(Gallons)

1650
VOLUME PURGED
(Gallons)

SAMPLING METHOD:

Sampler Type A-Submersible Pump D-Dipper/Bottle
 B-ISCO E-Bailer X-Other _____
 C-Bladder Pump F-Scoop/Shovel (SPECIFY OTHER)

Sampler Material A-Teflon C-PVC X-Other _____
 B-Metal D-Plastic (SPECIFY OTHER)

Tubing Material A-Teflon C-Polyethylene X-Other _____
 B-Tygon D-Silicon (SPECIFY OTHER)

Sample Compositd Y/N _____
 Procedure/Preparations _____

FIELD MEASUREMENTS

Well Elevation (ft/msl) 19179.18 Well Depth (ft) 143.74
 Depth to Ground water (ft) 118.58 Sample Depth (non-well) (ft) _____
 Groundwater Elevation (ft msl) 19206.0

| | |
|---|--|
| 1st <u>7.22</u> (STD) 1st <u>11536</u> <u>um/cm</u> at 25°C <u>Ek</u> <u>-73</u> <u>ML</u> | ph spec. cond. (other parameter) value units |
| 2nd <u>7.28</u> (STD) 2nd <u>1507</u> <u>um/cm</u> at 25°C _____ <u>-73</u> _____ | ph spec. cond. (other parameter) value units |
| 3rd <u>7.27</u> (STD) 3rd <u>1412</u> <u>um/cm</u> at 25°C _____ <u>-82</u> _____ | ph spec. cond. (other parameter) value units |
| 4th <u>7.26</u> (STD) 4th <u>1398</u> <u>um/cm</u> at 25°C _____ <u>-89</u> _____ | ph spec. cond. (other parameter) value units |
| <u>15.8</u> (°C) _____ NTU | Sample Temp Turbidity |

FIELD COMMENTS

Sample Appearance: H. gray, bad odor like LW wells
 Weather Conditions: cloudy, 15°F
 Other: _____

FILTERING: Use Chain of Custody (CC1) to indicate which bottles were filtered

Sampler: Shawn Hanrey Employee: PEHA 555

I certify that sampling procedures were in accordance with applicable EPA state and corporate protocols.

1-7-91 [Signature]
(Date) (Signature)

Company: WME Attn.: Dan Gunn
 Facility/Site: Town of Dunn (405) Phone: _____
 Address: _____

SAMPLE IDENTIFICATION

Facility: 405 12 Duplicate
Facility Site Code (Optional Sample Point Descriptions)
 Sample Point: K1-364PZ111IPV 9/10/97 0929
Source Code (from below) Your Sample Point ID (if it justifies) Start Date (YY/MM/DD) Start Time (2400 hr clock) Elapsed Hours (composite)
 Source Codes:
 (W) W: Outfall (O) Bottom Sediment (B) Surface Impoundment (L) Leachate Collection Sys (C) Other (X)
 (S) S: River/Stream (R) Generation Point (G) Treatment Facility (T) Lake/Ocean (L) Specify _____

SHUTTLE CONTENTS

| BOTTLE | | | | ANALYSIS | SAMPLER | | LAB |
|--------|------|------|----------|-------------------------------------|-------------|--------------|--------------|
| No | Type | Size | Preserv. | | Filt. (Y/N) | Observations | Observations |
| 1 | P | 250 | φ | TDS, Bicarbonate, Carbonate Sulfate | W | | full, yellow |
| | | | | | | | |
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CHAIN OF CUSTODY CHRONICLE

1 Shuttle Opened By: (print) Michael M. Alexander Date: 11/18/90 Time: _____
 Signature: [Signature] Seal #: _____ Intact: _____
 I have received these materials in good condition from the above person.
 2 Name _____ Signature: _____
 Date _____ Time: _____ Remarks: _____
 I have received these materials in good condition from the above person.
 3 Name: Michael M. Alexander Signature: [Signature]
 Date: 1-8-91 Time: 1:00 PM Remarks: Date incorrect on 256 91
 Shuttle Sealed By: (print) Michael M. Alexander Date: 11/18/90 Time: 1:00 PM
 4 Signature: [Signature] Seal #: [Seal] Intact: _____
 LAB USE ONLY Opened By: Kelly Schell Date: 1-9-91 Time: 14:00
 SHUTTLE # _____ TEMP. °C 40 SEAL # 1412-1413 COND. Intact



FIELD PARAMETER FORM (CC2)

Form 0002
Sample Management
12/89

ETC JOB # 1412-1417
CA5597

Sample Point W 36 WAZ/1/1/1/1
Source Code _____ Sample Point I.D. _____

FIELD PROCEDURES

9/10/08
PURGE DATE
(YY MM DD)

9:15
START PURGE
(2400 Hr Clock)

1.25
ELAPSED HRS

1.412
WATER VOL IN CASING
(Gallons)

1.6150
VOLUME PURGED
(Gallons)

SAMPLING METHOD:

Sampler Type A-Submersible Pump D-Dipper/Bottle
 B-ISCO E-Bailer X-Other _____ (SPECIFY OTHER)
 C-Bladder Pump F-Scoop/Shovel

Sampler Material A-Teflon C-PVC
 B-Metal D-Plastic X-Other _____ (SPECIFY OTHER)

Tubing Material A-Teflon C-Polyethylene
 B-Tygon D-Silicon X-Other _____ (SPECIFY OTHER)

Sample Compositd Y/N
Procedure/Proportions _____

FIELD MEASUREMENTS

Well Elevation (ft/msl) 1939.18 Well Depth (ft) 143.74
 Depth to Ground water (ft) 118.58 Sample Depth (non-well) (ft) _____
 Groundwater Elevation (ft msl) 1920.60

| | | |
|--|-----------------------------|----------------------------|
| 1st <u>17.22</u> (STD) <u>1536</u> um/cm at 25°C | <u>EL</u> (other parameter) | <u>173</u> <u>mv</u> units |
| 2nd <u>17.28</u> (STD) <u>1507</u> um/cm at 25°C | _____ (other parameter) | <u>172</u> _____ units |
| 3rd <u>17.27</u> (STD) <u>1412</u> um/cm at 25°C | _____ (other parameter) | <u>182</u> _____ units |
| 4th <u>17.26</u> (STD) <u>1398</u> um/cm at 25°C | _____ (other parameter) | <u>189</u> _____ units |

15.8 (°C) Sample Temp _____ NTU Turbidity

FIELD COMMENTS

Sample Appearance: lt. gray, bad odor like LW wells
 Weather Conditions: cloudy, 15°F
 Other: date should be 1-8-91 on ETC copy

FILTERING: Use Chain of Custody (CC1) to indicate which bottles were filtered

Sampler: Shawn Hawley Employer: PLA 357

I certify that sampling procedures were in accordance with applicable EPA state and corporate protocols.

1-8-91 Michael A. Alford
Date Signature

Company: WASTE MANAGEMENT, INC. Attn.: DEE BRNICH
 Facility/Site: TOWN OF DUNN Phone: () -
 Address: , DANE COUNTY, WI

SAMPLE IDENTIFICATION

Facility: 4 0 5 Facility/Site Code (Optional Sample Point Descriptions)
 Sample Point: W-36W PIZ 15 DAPI 911011018 091111
Source Code (from below) Your Sample Point ID (left justify) Start Date (YY/MM/DD) Start Time (2400 hr. clock) Elapsed Hours (composite)
 Source Codes:
 Well (W) Outfall (O) Bottom Sediment (B) Surface Impoundment (I) Leachate Collection Sys. (C) Other (X)
 Soil (S) River/Stream (R) Generation Point (G) Treatment Facility (T) Lake/Ocean (L) Specify _____

SHUTTLE CONTENTS

| BOTTLE | | | | ANALYSIS | SAMPLER | | LAB |
|--------|------|------|----------|---------------|-------------|--------------|--------------|
| No | Type | Size | Preserv. | | Filt. (Y/N) | Observations | Observations |
| 2 | VDA | 40 | HCL | CLP/VOLATILES | N | | ✓ |
| 1 | MET | 1000 | HNO3 | CLP/METALS | Y | | ✓ 5/6 full |
| 1 | CONU | 125 | NONE | CHLORIDE | N | | ✓ |
| 1 | FL | 125 | NONE | FLUORIDE | N | | ✓ |
| | | | | | | | |
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CHAIN OF CUSTODY CHRONICLE

1. Shuttle Opened By: (print) John G. Rudd Date: 11/27/59 Time: 9:32
 Signature: John G. Rudd Seal #: 0182183 Intact: ✓
 I have received these materials in good condition from the above person.
 2. Name: _____ Signature: _____
 Date: _____ Time: _____ Remarks: _____
 I have received these materials in good condition from the above person.
 3. Name: John G. Rudd Signature: John G. Rudd
 Date: 1-8-91 Time: 0700 Remarks: OK 358
 4. Shuttle Sealed By: (print) John G. Rudd Date: 1-8-91 Time: 1600
 Signature: John G. Rudd Seal #: 0182182 Intact: ✓
 LAB USE ONLY Opened By: W. S. ... Date: 1/9/91 Time: 1001
 SHUTTLE # 1090 TEMP. °C 6 SEAL # 182182 COND. Intact



FIELD PARAMETER FORM (CC2)

Form 0002
Sample Management
12/89

ETC JOB # CA5599
Sample Point W 36W PZ 5DUP
Source Code _____ Sample Point I.D. _____

FIELD PROCEDURES

9/10/10 18
PURGE DATE
(YY MM DD)

0814
START PURGE
(2400 Hr Clock)

115
ELAPSED HRS

1165
WATER VOL. IN CASING
(Gallons)

1675
VOLUME PURGED
(Gallons)

SAMPLING METHOD: Bailer

Sampler Type E A-Submersible Pump D-Dipper/Bottle
 B-ISCO E-Bailer X-Other _____ (SPECIFY OTHER)
 C-Bladder Pump F-Scoop/Shovel

Sampler Material C A-Teflon B-Metal C-PVC X-Other _____ (SPECIFY OTHER)
 B-Metal D-Plastic

Tubing Material A-Teflon B-Tygon C-Polyethylene X-Other _____ (SPECIFY OTHER)
 D-Silicon

Sample Composed Y N Procedure/Proportions _____

FIELD MEASUREMENTS

Well Elevation (ft/msl) 966.96 Well Depth (ft) 54.74
 Depth to Ground water (ft) 44.11 Sample Depth (non-well) (ft) _____
 Groundwater Elevation (ft msl) 922.85

| | | | | |
|-----------------------------|--|-----------------------------|-------------------|-----------------|
| 1st <u>7.43</u> (STD) pH | 1st <u>934</u> um/cm at 25°C spec. cond. | <u>PH</u> (other parameter) | <u>1264</u> value | <u>ml</u> units |
| 2nd <u>7.33</u> (STD) pH | 2nd <u>925</u> um/cm at 25°C spec. cond. | _____ (other parameter) | _____ value | _____ units |
| 3rd <u>7.25</u> (STD) pH | 3rd <u>928</u> um/cm at 25°C spec. cond. | _____ (other parameter) | _____ value | _____ units |
| 4th <u>7.30</u> (STD) pH | 4th <u>917</u> um/cm at 25°C spec. cond. | _____ (other parameter) | _____ value | _____ units |
| <u>8.5</u> Sample Temp (°C) | _____ Turbidity NTU | | | |

FIELD COMMENTS

Sample Appearance: Light grey color
 Weather Conditions: SUN CLEAR, 15°F, WIND EAST 5 MPH
 Other: _____

FILTERING: Use Chain of Custody (CC1) to indicate which bottles were filtered

Sampler: John H. Rudd (Print) Employer: PELA 359

I certify that sampling procedures were in accordance with applicable EPA state and corporate protocols.

1-8-91 (Date) John H. Rudd (Signature)

Company: WMI Attn.: Dan Gunn
 Facility/Site: Town of Dunn (405) Phone: _____
 Address: _____

SAMPLE IDENTIFICATION

Facility: 141015 12
Facility/Site Code (Optional Sample Point Descriptions)
 Sample Point: W-364 R2-5 TANK 9/10/08 09/11
Source Code Your Sample Point ID Start Date Start Time Elapsed Hours
(from below) (fill justify) (YY/MM/DD) (2400 hr clock) (composite)
 Source Codes: 36-WP25DUP ma 1/22/91
 We: W Outfall: (D) Bottom Sediment: (B) Surface Impoundment: (I) Leachate Collection Sys.: (C) Other: (X)
 Su: S River Stream: (R) Generation Point: (G) Treatment Facility: (T) Lake/Ocean: (L) Specify: _____

SHUTTLE CONTENTS

| BOTTLE | | | | ANALYSIS | SAMPLER | | LAB |
|--------|------|------|----------|-------------------------------------|-------------|--------------|--------------|
| No | Type | Size | Preserv. | | Filt. (Y/N) | Observations | Observations |
| 1 | P | 250 | Ø | TDS, Carbonate, Bicarbonate Sulfate | N | | full, clear |
| | | | | | | | |
| | | | | | | | |
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CHAIN OF CUSTODY CHRONICLE

Shuttle Opened By: (print) M. L. Alford Date: _____ Time: _____
 Signature: [Signature] Seal #: _____ Intact: _____
 I have received these materials in good condition from the above person.
 Name: _____ Signature: _____
 Date: _____ Time: _____ Remarks: _____
 I have received these materials in good condition from the above person.
 Name: John G. Rudd Signature: [Signature]
 Date: 1-8-91 Time: 0700 Remarks: OK 360
 Shuttle Sealed By: (print) Michael M. Alford Date: 1/8/91 Time: 1600 PM
 Signature: [Signature] Seal #: 1412-1413 Intact: OK
 LAB USE ONLY Opened By: Kelly Schick Date: 1-9-91 Time: 14:00
 SHUTTLE # _____ TEMP. °C 40 SEAL # 1412-1413 COND. Intact



FIELD PARAMETER FORM (CC2)

Form 0002
Sample Management
12/89

ETC JOB # CA 5599
 Sample Point W 316WPZSIDAP
Source Code Sample Point ID

FIELD PROCEDURES

9/11/01/10/18
PURGE DATE
(YY MM DD)

016/14
START PURGE
(2400 Hr Clock)

115
ELAPSED HRS

11269
WATER VOL IN CASING
(Gallons)

1675
VOLUME PURGED
(Gallons)

SAMPLING METHOD: Bailer

Sampler Type E A-Submersible Pump D-Dipper/Bottle
 B-ISCO B-Metal E-Bailer X-Other _____
 C-Bladder Pump C-Bladder Pump F-Scoop/Shovel (SPECIFY OTHER)

Sampler Material C A-Teflon C-PVC X-Other _____
 B-Metal D-Plastic (SPECIFY OTHER)

Tubing Material A-Teflon C-Polyethylene X-Other _____
 B-Tygon D-Silicon (SPECIFY OTHER)

Sample Compositing Y N

Procedure/Proportions

FIELD MEASUREMENTS

Well Elevation (ft/msl) 966.96

Well Depth (ft) 54.74

Depth to Ground water (ft) 44.11

Sample Depth (non-well) (ft) _____

Groundwater Elevation (ft msl) 922.83

1st 7.43 (STD) 1st 934 um/cm at 25°C
ph spec. cond.

EM 264 uH
(other parameter) value units

2nd 7.33 (STD) 2nd 925 um/cm at 25°C
ph spec. cond.

(other parameter) value units

3rd 7.29 (STD) 3rd 928 um/cm at 25°C
ph spec. cond.

(other parameter) value units

4th 7.30 (STD) 4th 917 um/cm at 25°C
ph spec. cond.

(other parameter) value units

8.5 (°C) _____ NTU
Sample Temp Turbidity

FIELD COMMENTS

Sample Appearance: Light grey color

Weather Conditions: SNOW FLURRIES, 15° F, WINDS EAST 5 MPH

Other: _____

FILTERING: Use Chain of Custody (CC1) to indicate which bottles were filtered

Sampler: John G. Rudd Employee: PELA 361

I certify that sampling procedures were in accordance with applicable EPA state and corporate protocols.

1-8-91 John G. Rudd
(Date) (Signature)

ORIGINAL

Reference # _____

Sample Management Relog Request Form

Originator: Alvase

Date: 1/10/91

Client/Facility: WMI / 405

Loglink #: 100839
(one per request form)

Sample #'s: CA5588

Bottle Type Searching for: VTB

| Sample # | Bottle Type | Amount Left | Sample # | Bottle Type | Amount Left |
|----------|-------------|-------------|----------|-------------|-------------|
| CA5588 | VTB | 2-40ml | | | |

Please relog as follows:

| Formerly # | New # | Sample Point | Received Date | Due Date | Sampled |
|------------|--------|--------------|---------------|----------|---------|
| CA5588 | CA5805 | (X) OZTB | 910109 | 910206 | 910107 |

362

Bottled relabeled by: A. Hender
Date: 1/11/91

Reference # _____

Sample Management Relog Request Form

Originator: Albans
Date: 1/10/91

Client/Facility: WMI / 405

Loglink #: 100848
(one per request form)

Sample #'s: CA5591

Bottle Type Searching for: VTB

| Sample # | Bottle Type | Amount Left | Sample # | Bottle Type | Amount Left |
|----------|-------------|-------------|----------|-------------|-------------|
| CA5591 | VTB | 2-40ml | | | |

Please relog as follows:

| Formerly # | New # | Sample Point | Received Date | Due Date | Sampled |
|------------|--------|--------------|---------------|------------------------|---------|
| CA5591 | CA5806 | (X) 02TB | 910110 | 4100 910107 | 910108 |

Bottled relabeled by: [Signature]
Date: 1/11/91

Date 10/91 Instr. C
 A-Type IFB/VOA
 Tune file APR201
 Seq. file X15C
 Method file VOAC
 ID file IC203
 CB file CE203
 Analyst A. B. [Signature]
 Reviewed by/Dale [Signature]

Batch #'s QV70443
 Standards Updated _____
 Date _____ By _____

Tape # _____ (nj.) _____ ul

| Standard | Conc ppm | Lot No. | Lot Vol (ul) |
|-----------------|----------|---------|--------------|
| BFB | 50 | 1871 | 10 |
| INT STD SURK | 25 | 10477 | 10 |
| CALIB I | 50 | 10504 | 2.5 (1/120) |
| CALIB II | 50 | 10505 | 2.5 (1/120) |
| XVOA | 50 | 10398 | 10 |
| IFB NAYEX STAGE | 25 | | |

| IR | NAME | DATA File | INITIALS | ml/g | # | Dil | Inj. Time | Comments | IP |
|----|-----------|-----------|----------|------|---|-----|-----------|-------------------------|----|
| | BFB | >C2110 | | 1ul | - | | 10:19 OK | 112-201-197 | |
| | QCT0443VS | >C2111 | | 5ml | 1 | | 10:48 | 20uls CAL I-II, XVOA | |
| | QCT0443VS | >C2112 | | | 2 | | NG 1 Suls | | |
| | QCT0443VS | >C2113 | | | 3 | | 12:24 | 10uls | |
| | QCT0443US | >C2114 | | | 4 | | NG 1 Suls | | |
| | QCT0443VS | >C2115 | | | 5 | | 14:01 | 2uls | |
| | QCT0443V | >C2116 | | | 6 | | | NOT USED | |
| | QCT0443VS | >C2117 | | 5ml | 7 | | 16:27 | Suls CAL I-II, XVOA | |
| | QCT0443US | >C2118 | | Sul | 8 | | 17:15 | Suls | |
| | QCT0443V | >C2119 | | 5ml | 1 | | | NG | |
| | BFB | >C2120 | | 1ul | - | | 10:13 | OK (10CENH) | |
| | QCT0443VS | >C2121 | | 5ml | 1 | | | NG Suls incl I-II, XVOA | |
| | QCT0443V | >C2122 | | | 2 | | | NOT USED | |
| | QCT0443VS | >C2123 | | 5ml | 3 | | 12:16 OK | Suls CAL I-II, XVOA | |
| | QCT0443V | >C2124 | | 5ml | 4 | | 13:04 | OK | |
| | CA5562V | >C2125 | | 5ml | 5 | | 14:10 | OK | |
| | CA5574V | >C2126 | | 5ml | 6 | | 15:00 | OK | |
| | CA5591V | >C2127 | | 25ml | 7 | | 15:49 | OK | |

R : redo ; P : Aroclor search ; * : Plus search

11/15/91

Date 1/1/91 Instr. C

A-Type IFB
Tune file APT101
Seq. file K130, LBC
Method file V04
ID file TL1203
CB file CL1203
Analyst K. B. [unclear]
Reviewed by Date [unclear]

Batch #'s QV70443

Standards Updated
Date By

Tape # Inj. ul

Table with columns: Standard, Conc ppm, Lot No., Lot Vol. Contains handwritten note 'See Pg #1'.

Main data table with columns: IR, NAME, DATA File, Init. ml/g, ALS #, Dil, Inj. Time, Comments. Contains multiple rows of sample analysis data.

R : redo , P : Arcolor search , + : Plus search

Date 1/8/91 Instr. D

A-Type PP/VOA
 Tune file ARET01
 Seq. file KKD
 Method file VOAD
 ID file ID0308
 CB file ED0308
 Analyst Kemp
 Reviewed by Date

Batch #'s QV70441

Standards Updated
 Date _____ By _____

Type # _____ Inj. _____ ul

| Standard | Conc ppm | Lot No. | Lot Uel. |
|----------|----------|---------|-----------------|
| F-BFB | 50 | 9871 | (ul) |
| INT STD | 25 | 10477 | 10 |
| CALIB I | 50 | 10504 | 2, 5, 4, 15, 20 |
| CALIB II | 50 | 10505 | |
| VOA | 50 | 10398 | ↓ |

| IR | NAME | DATA File | init. ml/g | ALS # | Dil | Inj. Time | Comments | P |
|----|-----------|-----------|------------|-------|------|-----------|-----------------------|---|
| | BFB | >D2520 | 1ul | - | | 16:22 | OK 127(ENTH) | |
| | QV70441VS | >D2521 | 5ul | 1 | | 16:43 | 20uls CAL INT, NIDA | |
| | QV70441VS | >D2522 | | 2 | | 17:28 | 15uls | |
| | QV70441VS | >D2523 | | 3 | CBAD | 18:11 | 10uls | |
| | QV70441VS | >D2524 | | 4 | | 18:55 | 5uls | |
| | QV70441VS | >D2525 | | 5 | | 19:39 | 2uls | |
| | QV70441V | >D2526 | | 6 | | 20:22 | OK NOT needed | |
| | QV70441V | >D2527 | | 7 | | 21:06 | OK | |
| | FB9435V | >D2528 | 0.20ul | 8 | 1:25 | 21:50 | OK | |
| | FB9435VS | >D2529 | | 9 | | 22:58 | OK 5uls CAL INT, NIDA | |
| | FB9435VR | >D2530 | | 10 | | 00:06 | OK 5uls | |

Date 1/13/91 Instr. D

A-Type IFB/UD9
 Tune file AP204
 Seq. file KBD
 Method file 1000
 ID file TD030
 CB file CD030K
 Analyst F. [unclear]
 Reviewed by/Date [unclear]

Batch #'s QV70445

Standards Updated _____
 Date _____ By _____

Tape # _____ Inj. _____ ul

| Standard | Conc ppm | Lot No. | Lot Uel. |
|----------------|----------|---------|-------------|
| BFB | 50 | 9871 | (ul) |
| INT STD 45RR | 25 | 10877 | 10 |
| CAL IZBT | 50 | 10504 | 2.219, 1520 |
| CAL IZBT II | 50 | 10505 | |
| XNO9 | 50 | 10398 | |
| IFB MATRIX STD | 25 | 10408 | 10 |

| IR | NAME | DATA File | Init. ml/g | ALS # | Dil | Inj. Time | Comments | P |
|----|-----------|-----------|------------|-------|--------|-----------|---------------------------|---|
| | P-BFB | >D2586 | 1ul | - | | 11:45 | OK 152 (ENH) | |
| | QV70445VS | >D2587 | 5ml | 2 | (QCAL) | 17:57 | OK Suls cal IZBT, XNO9 | |
| | P-BFB | >D2588 | 1ul | - | | 18:49 | OK 129 | |
| | QV70445V | >D2589 | 5ml | 2 | | | NG | |
| | QV70445V | >D2590 | | 3 | | 19:56 | OK | |
| | CA5577V | >D2591 | | 4 | | 20:42 | OK rr 1:50 | |
| | CA5578V | >D2592 | | 5 | | | NG Possible canyon rr str | |
| | CA5585V | >D2593 | | 6 | | 22:16 | OK | |
| | CA5586V | >D2594 | | 7 | | 23:03 | OK | |
| | CA5587V | >D2595 | | 9 | | 23:49 | OK | |
| | CA5596V | >D2596 | 2.5ml | 10 | | 00:37 | OK | |
| | CA5571V | >D2597 | 1ml | 11 | | 01:23 | OK rr 1:50 | |
| | CA5579V | >D2598 | 0.5ml | 12 | | | OK rr 1:2 | |
| | CA5583V | >D2599 | 5ml | 13 | | 02:57 | OK | |
| | CA5584V | >D2600 | | 14 | | 03:44 | OK | |
| | CA5589V | >D2601 | | 15 | | 04:31 | OK | |
| | CA5593V | >D2602 | | 16 | | 05:17 | OK | |
| | P-BFB | >D2603 | 1ul | | | 09:58 | OK 123 111 370 | |

R : redo , P : Arcolor search , - : Plus search

ETC

WET CHEMISTRIES QC DATA

2-Batch: QW70386, 348

Parameter: Chlorides

Date: Jan 21, 1991

QC-Batch: QTC05672

Method Ref: 323.2

Time: 8:00am

Verified: Greg Mann

Det Limit: 1.0 ml/L

Instrument: 64PC

Matrix: H₂O's

Analyst: O. Bacon

| INSTRUMENT CALIBRATION STANDARDS: Units = <u>mg/L</u> | | | | | |
|---|---------------------------------------|--------------|-------------|-------------|-------------------|
| Standard | <u>200.0</u> | <u>100.0</u> | <u>75.0</u> | <u>50.0</u> | <u>5.00</u> |
| Observed | <u>200.8</u> | <u>100.1</u> | <u>74.8</u> | <u>49.8</u> | <u>4.46 (abs)</u> |
| % Recov | <u>100%</u> | <u>100%</u> | <u>100%</u> | <u>99%</u> | <u>90%</u> |
| Limits: % Rec. = | <u>+/- 10.0 % low std +/- 15% ()</u> | | | | |
| Comments: | | | | | |

Source Lot: _____
 $y = mx + b$
 Slope: _____
 Intep: _____
 Corr: _____
 Corr. Coef > 0.99500 ()

QUALITY CONTROL DATA SUMMARY: Batch and Instrumental QC Results/Limits

| Seq # | ETC ID | Limit | Obsv. | Known | % Rec. | [Ver] | Comments |
|-----------|-------------------|-----------------|-----------------|--------------|-------------|-------|--------------|
| <u>15</u> | <u>ICVER</u> | <u>+/- 15%</u> | <u>50.8</u> | <u>50.0</u> | <u>102%</u> | () | <u>Lot #</u> |
| <u>13</u> | <u>ICBLK</u> | <u>< MDL</u> | <u>< MDL</u> | | | () | |
| <u>14</u> | <u>M. BLK - 1</u> | <u>< MDL</u> | <u>< MDL</u> | | | () | |
| <u>16</u> | <u>S. BLK - 1</u> | <u>+/- 15%</u> | <u>50.0</u> | <u>50.0</u> | <u>100%</u> | () | <u>Lot #</u> |
| <u>17</u> | <u>IDROC - 1</u> | <u>+/- 20%</u> | <u>99.0</u> | <u>97.0</u> | <u>102%</u> | () | <u>Lot #</u> |
| <u>32</u> | <u>CCV - 1</u> | <u>+/- 15%</u> | <u>100.0</u> | <u>100.0</u> | <u>100%</u> | () | |
| <u>33</u> | <u>CCS - 1</u> | <u>< MDL</u> | <u>< MDL</u> | | | () | |
| <u>47</u> | <u>CCV - 2</u> | <u>+/- 15%</u> | <u>102.0</u> | <u>100.0</u> | <u>102%</u> | () | |
| <u>48</u> | <u>CCS - 2</u> | <u>< MDL</u> | <u>< MDL</u> | | | () | |
| <u>62</u> | <u>CCV - 3</u> | <u>+/- 15%</u> | <u>105.8</u> | <u>100.0</u> | <u>106%</u> | () | |
| <u>63</u> | <u>CCS - 3</u> | <u>< MDL</u> | <u>< MDL</u> | | | () | |
| <u>77</u> | <u>M. BLK - 2</u> | <u>< MDL</u> | | | | () | |
| <u>78</u> | <u>S. BLK - 2</u> | <u>+/- 15%</u> | | | | () | <u>Lot #</u> |
| <u>79</u> | <u>IDROC - 2</u> | <u>+/- 20%</u> | | | | () | <u>Lot #</u> |
| <u>77</u> | <u>CCV - 4</u> | <u>+/- 15%</u> | <u>102.8</u> | <u>100.0</u> | <u>103%</u> | () | |
| <u>78</u> | <u>CCS - 4</u> | <u>< MDL</u> | <u>< MDL</u> | | | () | |
| <u>82</u> | <u>CCV - 6</u> | <u>+/- 15%</u> | <u>101.0</u> | <u>100.0</u> | <u>101%</u> | () | |
| <u>83</u> | <u>CCS - 6</u> | <u>< MDL</u> | <u>< MDL</u> | | | () | |
| <u>83</u> | <u>CCV - 6</u> | <u>+/- 15%</u> | | | | () | |
| <u>83</u> | <u>CCS - 6</u> | <u>< MDL</u> | | | | () | |
| <u>83</u> | <u>M. BLK - 3</u> | <u>< MDL</u> | | | | () | |
| <u>83</u> | <u>S. BLK - 3</u> | <u>+/- 15%</u> | | | | () | <u>Lot #</u> |
| <u>83</u> | <u>IDROC - 3</u> | <u>+/- 20%</u> | | | | () | <u>Lot #</u> |
| <u>83</u> | <u>CCV - 7</u> | <u>+/- 15%</u> | | | | () | |
| <u>83</u> | <u>CCS - 7</u> | <u>< MDL</u> | | | | () | |
| <u>83</u> | <u>CCV - 8</u> | <u>+/- 15%</u> | | | | () | |
| <u>83</u> | <u>CCS - 8</u> | <u>< MDL</u> | | | | () | |
| <u>83</u> | <u>CCV - 9</u> | <u>+/- 15%</u> | | | | () | |
| <u>83</u> | <u>CCS - 9</u> | <u>< MDL</u> | | | | () | |

| QUALITY CONTROL | | Duplicates | | | Matrix Spikes | | | | | |
|-----------------|---------------|-------------|-------------|-------------|---------------|---------------|-------------|-------------|-------------|-------------|
| Seq # | QTC # | ETC # | Orig | Dups | % RPD | ETC # | Orig | Added | Recur | % R |
| <u>26-23</u> | <u>HA3794</u> | <u>196</u> | <u>196</u> | <u>366</u> | <u>8</u> | <u>HA3794</u> | <u>MDL</u> | <u>50.0</u> | <u>50.1</u> | <u>100%</u> |
| <u>34-37</u> | <u>HA3781</u> | <u>24.4</u> | <u>24.4</u> | <u>23.4</u> | <u>9</u> | <u>HA3781</u> | <u>24.4</u> | <u>50.0</u> | <u>71.3</u> | <u>74</u> |
| <u>44-52</u> | <u>HA3798</u> | <u>24.2</u> | <u>24.2</u> | <u>23.7</u> | <u>2</u> | <u>HA3798</u> | <u>24.2</u> | <u>50.0</u> | <u>71.8</u> | <u>95</u> |
| <u>64-102</u> | <u>HA3591</u> | <u>6.22</u> | <u>6.22</u> | <u>6.17</u> | <u>8</u> | <u>HA3591</u> | <u>6.22</u> | <u>50.0</u> | <u>57.3</u> | <u>783</u> |

ETC

CHLORIDE

GW-Batch: QW70386398

GC-Batch: QXCOS672

Verified: Erik Blum

Instrument: GTPC

Method Ref: EPA 325.2, SW-646 8251

(Colorimetric/Automated Ferri Cyanide)

MDL: 1.0 mg/l

Matrix: Aqueous

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Date: Jan 21, 1991

Time: 8:00am

Analyst: A. Bruce

| Seq # | ETC Job # | Analyzed mg/l | Dilution Factor | Reported mg/l | Comments Calculations |
|-------|-----------|---------------|-----------------|---------------|-----------------------|
| 20 | HA3794 | -19.6 | | BMDL | |
| 24 | HA3789 | 58.1 | | 58.1 | |
| 25 | HA4014 | -16.5 | | BMDL | |
| 26 | HA3797 | 116.4 | | 116.4 | |
| 27 | HA3806 | 27.6 | | 27.6 | |
| 28 | HA3808 | 23.8 | | 23.8 | |
| 29 | HA3800 | 17.0 | | 17.0 | |
| 30 | CA5568 | 129.9 | | 129.9 | |
| 31 | HA3782 | 4.55 | | 4.6 | |
| 34 | HA3781 | 24.4 | | 24.4 | |
| 38 | HA3785 | 18.2 | | 18.2 | |
| 39 | HA3779 | 103.7 | | 103.7 | |
| 40 | HA3783 | 205.2 | | 205.2 | |
| 41 | HA3791 | 10.4 | | 10.4 | |
| 42 | HA3801 | 195.0 | | 195.0 | |
| 43 | CA5588 | 135.8 | | 135.8 | |
| 44 | CA5589 | 8.91 | | 8.9 | |
| 45 | CA5584 | 11.8 | | 11.8 | |
| 46 | CA5597 | 134.5 | | 134.5 | |
| 49 | HA3798 | 24.2 | | 24.2 | |
| 53 | CA5599 | 9.50 | | 9.5 | |
| 54 | CA5593 | .0728 | | BMDL | |
| 55 | CA5592 | 47.8 | | 47.8 | |
| 56 | HA3795 | .776 | | BMDL | |

374

ETC

FLUORIDE

QW-Batch: 12W70385, 404

Method Ref: SM 413 E

Page 1 of 2

QC-Batch: QXC05716

(Colorimetric, Automated Complexone)

Date: Jan. 30, 1991

Verified: Greg Miller

MDL: 0.1 mg/l

Time: 8:00 am.

Instrument: Union Ion Analyzer

Matrix: Aqueous

Analyst: G. Brack

Slope = -56.127 / DEC

| Seq # | ETC Job # | Analyzed mg/l | Dilution Factor | Reported mg/l | Comments Calculations |
|-------|---------------|---------------|-----------------|---------------|-----------------------|
| | 2.00 ppm | 2.08 | | 2.1 | 105%R |
| | 1.50 ppm | 1.51 | | 1.5 | 100%R |
| | 1.00 ppm | 1.02 | | 1.0 | 100%R |
| | 0.50 ppm | 0.501 | | 0.5 | 100%R |
| | 0.10 ppm | 0.0964 | | 0.096 | 96%R |
| | Method Blank | 0.0216 | | BMDL | |
| | CAS568 | 0.160 | | 0.2 | |
| | Dup. | 0.164 | | 0.2 | |
| | Spl. | 1.02 | | 1.0 | 80%R |
| | CAS584 | 0.0232 | | BMDL | |
| | CAS588 | 0.179 | | 0.2 | |
| | CAS589 | 0.118 | | 0.1 | |
| | CAS592 | 0.136 | | 0.1 | |
| | CAS593 | 0.0223 | | BMDL | |
| | CAS597 | 0.157 | | 0.2 | |
| | CAS599 | 0.113 | | 0.1 | |
| | CAS590 | 0.0239 | | BMDL | |
| | CAS591 | 0.134 | | 0.1 | |
| | 1.00 ppm Chk. | 0.993 | | 1.0 | 100%R |
| | HA4054 | 0.0467 | | BMDL | |
| | Dup. | 0.0423 | | BMDL | |
| | Spl. | 0.916 | | 0.92 | 87%R |
| | HA4055 | 0.123 | | 0.1 | |
| | HA4056 | 0.0839 | | BMDL | 376 |

