

NEW YORK STATE SUPERFUND CONTRACT IMMEDIATE INVESTIGATION WORK ASSIGNMENT

VOLUME II APPENDIX C

Atlas Graphics
Site No. 1-30-043B
Work Assignment No. D002676-20

DATE: March 1999



Prepared for:

**New York State
Department of
Environmental Conservation**

50 Wolf Road, Albany, New York 12233
John Cahill, Commissioner

Division of Environmental Remediation
Michael J. O'Toole, Director

By:
Lawler, Matusky & Skelly Engineers LLP

**DATA PACKAGE FOR
VOLATILE ORGANICS
PART I****WCIA ATLAS GRAPHICS
CASE RA097
SDG 0122****NYSDEC REGION 0
ROOM 260A
50 WOLF ROAD
ALBANY, NY 12233-7010****CHEMTECH PROJECT NO.
ATTENTION****5252DEC
JOE JONES
JENNIFER MORSE**

ORGANICS COMPLETE SDG FILE (CSF) INVENTORY SHEET

LABORATORY NAME <u>Chemtech Consulting Grp</u>	CITY/STATE <u>Englewood, NJ</u>
CASE NO. <u>RA097</u> SDG NO. <u>0122</u> SDG NOS. TO FOLLOW _____	SAS NO. _____
CONTRACT NO. _____ ASP DATE _____	

All documents delivered in the complete SDG file must be original documents where possible. (REFERENCE EXHIBIT B, SECTION II AND III.)

	PAGE NOS		CHECK	
	FROM	TO	LAB	NYSDEC
1. <u>Inventory Sheet</u> (Form DC-2) (Do not number)				
2. <u>SDG Case Narrative</u>	<u>001</u>	<u>002</u>		
3. <u>Contract Lab Sample Information Sheet</u> (CLSIS)	<u>003</u>	<u>005</u>		
4. <u>Volatiles Data</u>				
a. <u>QC Summary</u>				
Surrogate Percent Recovery Summary (Form II-CLP-VOA)	<u>009</u>	<u>009</u>		
Lab Control Sample Recovery (Form III-CLP-VOA)	<u>010</u>	<u>010</u>		
Method Blank Summary (Form IV-CLP-VOA)	<u>011</u>	<u>012</u>		
GC/MS Instrument Performance Check (Form V-CLP-VOA)	<u>013</u>	<u>015</u>		
Internal Standard Area and RT Summary (Form VIII-CLP-VOA)	<u>016</u>	<u>019</u>		
b. <u>Sample Data</u>				
TCL Results (Form I-CLP-VOA)	<u>021</u>	<u>078</u>		
Tentatively Identified Compounds (Form I-CLP-VOA-TIC)				
Reconstructed total ion chromatograms (RIC) for each sample				
For each sample:				
Raw spectra and background-subtracted mass spectra of target compounds identified				
Quantitation reports				
Mass spectra of all reported TICs with three best library matches				
c. <u>Standards Data</u> (All Instruments)				
Initial Calibration Data (Form VI-CLP-VOA)	<u>080</u>	<u>081</u>		
RICs and Quant Reports for all Standards	<u>082</u>	<u>098</u>		
Continuing Calibration (Form VII-CLP-VOA)	<u>099</u>	<u>102</u>		
RICs and Quant Reports for all Standards	<u>103</u>	<u>112</u>		
d. <u>Raw QC Data</u>				
BFB	<u>114</u>	<u>116</u>		
Blank Data	<u>117</u>	<u>129</u>		
Matrix Spike Blank Data	<u>-</u>	<u>-</u>		
Matrix Spike Data	<u>-</u>	<u>-</u>		
Matrix Spike Duplicate Data	<u>-</u>	<u>-</u>		
5. <u>Semivolatiles Data</u>				
a. <u>QC Summary</u>				
Surrogate Percent Recovery Summary (Form II-CLP-SV)	<u>-</u>	<u>-</u>		
MS/MSD Summary (Form III-CLP-SV)	<u>-</u>	<u>-</u>		
Method Blank Summary (Form IV-CLP-SV)	<u>-</u>	<u>-</u>		
GC/MS Instrument Performance Check (Form V-CLP-SV)	<u>-</u>	<u>-</u>		
Internal Standard Area and RT Summary (Form VIII-B-CLP-SV and Form VIII-C-CLP-SV)	<u>-</u>	<u>-</u>		

FORM DC-2-ORG-1

ORGANICS COMPLETE SDG FILE (CSF) INVENTORY SHEET (Cont.)

CASE NO. BA097 SDG NO. 0122 SDG NOS. TO FOLLOW _____ SAS NO. _____

	PAGE NOS		CHECK	
	FROM	TO	LAB	NYSDEC
5. Semivolatiles Data (cont.)				
b. Sample Data				
TCL Results (Form I-CLP-SV)	_____	_____	_____	_____
Tentatively Identified Compounds (Form I-CLP-SV-TIC)	_____	_____	_____	_____
Reconstructed total ion chromatograms (RIC)	_____	_____	_____	_____
for each sample	_____	_____	_____	_____
For each sample:				
Raw spectra and background-subtracted				
mass spectra of target compounds identified	_____	_____	_____	_____
Quantitation reports	_____	_____	_____	_____
Mass spectra of all reported TICs with three				
best library matches	_____	_____	_____	_____
GPC chromatograms (if GPC performed)	_____	_____	_____	_____
c. Standards Data (All Instruments)				
Initial Calibration Data (Form VI-CLP-SV)	_____	_____	_____	_____
RICs and Quant Reports for all Standards	_____	_____	_____	_____
Continuing Calibration (Form VII-CLP-SV)	_____	_____	_____	_____
RICs and Quant Reports for all Standards	_____	_____	_____	_____
d. QC Data				
DFTPP	_____	_____	_____	_____
Blank Data	_____	_____	_____	_____
Matrix Spike Blank Data	_____	_____	_____	_____
Matrix Spike Data	_____	_____	_____	_____
Matrix Spike Duplicate Data	_____	_____	_____	_____
6. Pesticides				
a. QC Summary				
Surrogate Percent Recovery Summary	_____	_____	_____	_____
(Form II-CLP-PEST)	_____	_____	_____	_____
MS/MSD Summary (Form III-CLP-PEST)	_____	_____	_____	_____
Method Blank Summary (Form IV-CLP-PEST)	_____	_____	_____	_____
B. Sample Data				
TCL Results (Form I-CLP-PEST)	_____	_____	_____	_____
Chromatograms (Primary Column)	_____	_____	_____	_____
Chromatograms from second GC column confirmation	_____	_____	_____	_____
GC Integration report or data system printout and				
calibration plots	_____	_____	_____	_____
Manual work sheets	_____	_____	_____	_____
UV traces from GPC (if available)	_____	_____	_____	_____
For pesticides/Aroclors confirmed by GC/MS, copies				
of raw spectra and copies of background-subtracted	_____	_____	_____	_____
mass spectra of target compounds (samples & standards)	_____	_____	_____	_____

FORM DC-2-ORG-2

ORGANICS COMPLETE SDG FILE (CSF) INVENTORY SHEET (Cont.)

CASE NO. KA 097 SDG NO. 0/22 SDG NOS. TO FOLLOW _____ SAS NO. _____

PAGE NOS.
FROM TO CHECK
LAB NYSDOC

6. Pesticides Data (cont.)

c. Standards Data

Initial Calibration of Single Component Analytes
(Form VI-CLP-PEST-1 and PEST-2)

Initial Calibration of Multicomponent Analytes
(Form VI-CLP-PEST-3)

Analyte Resolution Summary (Form VI-CLP-PEST-4)

Performance Evaluation Mixture (Form VI-CLP-PEST-5)

Individual Standard Mixture A (Form VI-CLP-PEST-6)

Individual Standard Mixture B (Form VI-CLP-PEST-7)

Calibration Verification Summary (Form VII-CLP-PEST-1)

Calibration Verification Summary (Form VII-CLP-PEST-2)

Analytical Sequence (Form VIII-CLP-PEST)

Florisil Cartridge Check (Form IX-CLP-PEST-1)

Pesticide GPC Calibration (Form IX-CLP-PEST-2)

Pesticides Identification Summary for Single
Component Analytes (Form X-CLP-PEST-1)

Pesticides Identification Summary for Single
Multicomponent Analytes (Form X-CLP-PEST-2)

Chromatograms and data system printouts

A printout of retention times and corresponding
peak areas or peak heights

d. Raw QC Data

Blank Data

Matrix Spike Blank Data

Matrix Spike Data

Matrix Spike Duplicate Data

Raw GPC Data

Raw Florisil Data

7. Miscellaneous Data

Original preparation and analysis forms or copies of
preparation and analysis logbook pages

Internal sample and sample extract transfer
chain-of-custody records

Screening records

All instrument output, including strip charts from
screening activities (describe or list)

FORM DC-2-ORG-3

ORGANICS COMPLETE SDG FILE (CSF) INVENTORY SHEET (Cont.)

CASE NO. BA 097 SDG NO. 0122 SDG NOS. TO FOLLOW _____ SAS NO. _____

PAGE NOS		CHECK	
FROM	TO	LAB	NYSDEC

8. NYSDEC Shipping/Receiving Documents

Airbills (No. of shipments _____)	<u>131</u>	<u>131</u>	_____	_____
Chain-of-Custody Records	<u>132</u>	<u>132</u>	_____	_____
Sample Tags	<u>—</u>	<u>—</u>	_____	_____
Sample Log-In Sheet (Lab & DC-1)	<u>133</u>	<u>133</u>	_____	_____
SDG Cover Sheet	<u>134</u>	<u>134</u>	_____	_____
Miscellaneous Shipping/Receiving Records (describe or list)	_____	_____	_____	_____
_____	_____	_____	_____	_____

9. Internal Lab Sample Transfer Records and Tracking Sheets (describe or list)

_____	_____	_____	_____
_____	_____	_____	_____

10. Other Records (describe or list)

Telephone Communication Log	_____	_____	_____	_____
_____	_____	_____	_____	

11. Comments: _____

Completed by: Cmp Pflueger (Gen. Reporting Supr.) 10/24/97
 (CLP Lab) (Signature) (Printed Name/Title) (Date)

Verified by: _____
 (CLP Lab) (Signature) (Printed Name/Title) (Date)

Audited by: _____
 (NYSDEC) (Signature) (Printed Name/Title) (Date)

FORM DC-2-ORG-4

CASE NARRATIVE

New York State D.E.C.
LMS Project 650231
WCIA Atlas Graphics Case # RA097
Chemtech Project # 5252DEC

A. Number of Samples and Date of Receipt

4 Aqueous samples were delivered to the laboratory intact on 9/16/97.

B. Parameters

Tests requested on the Chain of Custody were Volatile Organics

C. Analytical Techniques:

Samples were analyzed for Volatiles according to NYSDEC ASP Methodology. The analyses were performed on instrument VOA1, using GC column RTX624 which is 75 meters, 0.53mm ID, 3.0mm df (crossbond 6% cyanopropylphenyl-94%) dimethylpolysiloxane. The Purge Trap was supplied by Supelco, VO CARB 3000, Tekmar 3000.

D. QA/ QC Samples:

The Surrogate Recoveries for each sample are found in Form II-A. Initial Calibration of Single Component Analytes results are found on Form 6 D & E. The Matrix Spike and Matrix Spike Duplicate were analyzed and are reported on Form 3F.

System Monitoring Compound recoveries were acceptable. The MS/ MSD recoveries of Toluene were not acceptable. The RPD of Benzene did not meet requirements. Internal Standard Areas and Retention Times were within QC limits. Calibrations met requirements. Blank VBLK01 analyzed 10/13/97 contained Trichlorofluoromethane. Appropriate results are qualified "B".

I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy data package has been authorized by the laboratory manager or his designee, as verified by the following signature.

Signature _____



Name: Divyajit Mehta

Date: _____

10/24/97

Title: Lab Manager

COVER PAGE

Lab Name: Chemtech Consulting Group
Lab Code: CHEM Project No.: 5252DEC

Client: NEW YORK STATE D. E. C.
Project Name: CASE RA097

Client Sample No.

TB
B94865
B94866
B94867

Lab Sample ID

28799
28800
28801
28802

I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy data package has been authorized by the laboratory manager or his designed, as verified by the following signature.

Signature: _____

Name: DIVYA MEHTA

Date : _____

10/24/97

Title: LAB DIRECTOR



NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

CONTRACT LAB SAMPLE INFORMATION SHEET

Print legibly

Part 3

CAUTION (check if applicable)

- ☐ Lab Personnel are expected to use caution when handling DEC samples, however, please use special precautions when handling this sample since it is believed to contain significant concentrations of hazardous and/or toxic material(s).

Place QA Label Here

CHECK THE BOX PRECEDING THE REQUESTED ANALYSIS

PRIORITY POLLUTANTS (Water Part 136)—SPDES

☐ 2. 13 PP Metals	☐ 3. Volatiles—(USEPA 624 GC/MS)	☐ 6. Pesticides/PCB's (USEPA 608-GC)
☐ 4. Acids Base/Neutrals (USEPA 625-GC/MS)	☐ 5. Cyanide	☐ 9. BOD
☐ 7. Halogenated Volatiles (USEPA 601-GC)	☐ 8. Aromatic Volatiles (USEPA 602-GC)	☐ 12. TSS
☐ 10. pH	☐ 11. COD	☐ 15. Ammonia
☐ 13. Settleable Solids	☐ 14. TKN	☐ 18. Reactive Phosphorus
☐ 16. Nitrate/Nitrite	☐ 17. Total Phosphorus	☐ 21. Total Phenols
☐ 19. Oil/Grease	☐ 20. TOC	☐ 60. PCB's congener method
☐ 22. Other _____	☐ 59. PCB's at 0.065 ug/L	☐ 64. Total Solids
	☐ 62. CBOD	☐ 65. Volatiles (USEPA 524.2 GC/MS)

CONTRACT LABORATORY PROTOCOLS

☐ 23. (ALL)—Water—Includes 24-28	☐ 29. (ALL)— Soil/Sediments—Includes 30-34
☐ 24. Base/Neutral/Acid (B/N/A)—Water—GC/MS (ASP #89-2)	☐ 30. B/N/A—Soils/Sediment—GC/MS (ASP #89-2)
☒ 25. Volatile Organic Analysis VOA—Water—GC/MS(ASP #89-1)	☐ 31. VOA—Soils/Sediments—GC/MS (ASP #89-1)
☐ 26. Pesticides/PCB's—Water—GC(ASP #89-3)	☐ 32. Pesticides/PCB's—Soils/Sediment—GC (ASP #89-3)
☐ 27. Metals—23 in Water	☐ 33. Metals—23 in Soil/Sediment
☐ 28. Cyanide—Water	☐ 34. Cyanide—Soils/Sediment
☐ 66. Dioxin-Water (ASP #89-4)	☐ 67. Dioxin-Soil/Sediment (ASP #89-4)
☐ 35. Other _____	

HAZARDOUS WASTES/RCRA ANALYSIS SW-846

☐ 36. EP Toxicity	☐ 37. EP Toxicity (Metals Only)	☐ 38. Ignitability
☐ 39. Corrosivity	☐ 40. VOA—(USEPA 8240-GC/MS)	☐ 41. BNA—(USEPA 8270-GC/MS)
☐ 42. Pesticides/PCB's (USEPA 8080)	☐ 43. TCLP	☐ 44. TCLP (Metals Only)
☐ 45. Reactivity	☐ 46. Dioxin (USEPA 8280)	☐ 47. Appendix IX
☐ 48. Other _____	☐ 63. Percent Solids	☐ 68. Metals—17 Hazardous

MUNICIPAL SLUDGE

☐ 49. RSSGB-01	☐ 50. RSSR-01	☐ 51. RSSR-01	☐ 52. RSSR-01	☐ 53. RSSR-01 (EP Toxicity-Metals only + RSSR-01)
☐ 54. RSSRO-01	☐ 55. RSSB-01	☐ 56. RSSR-01	☐ 57. RSSR-02	☐ 58. Other _____

COLLECTED BY:

J. Jones / Jennifer Moore

TELEPHONE NUMBER:

513 457 4349

REGION NO:

1

CONTRACT LAB:

Chemtech

COUNTY:

Nassau

SAMPLING DATE:

9/1/97

MILITARY TIME:

0935

SAMPLE MATRIX:

- ☐ Air ☐ Soil/Sediment ☒ Groundwater ☐ Surface Water ☐ Wastewater ☐ Other (Specify) _____

CASE NUMBER:

2A1097

SDG NUMBER

01122

SAMPLE NUMBER

2A4865

CHECK FOR MS/MD

☐ This Sample

TYPE OF SAMPLE:

☐ Composite☒ Grab☐ Term _____ hrs☐ Check if there will be more samples with this SDG sent in this calendar weekReport via Category B, unless checked ☐

SAMPLING POINT:

Chemtech Project 525&DEC
Sample 28800Check if field
duplicate ☐

Outfall Number

Check if sampling is part
of inspection ☐

SPDES NUMBER/REGISTRY NUMBER

FLOW

GPD
MGD

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

CONTRACT LAB SAMPLE INFORMATION SHEET

Print legibly

Part 3

CAUTION (check if applicable)

- ☐ Lab Personnel are expected to use caution when handling DEC samples, however, please use special precautions when handling this sample since it is believed to contain significant concentrations of hazardous and/or toxic material(s).

Place QA Label Here

CHECK THE BOX PRECEDING THE REQUESTED ANALYSIS

PRIORITY POLLUTANTS (Water Part 136)—SPDES

☐ 2. 13 PP Metals	☐ 3. Volatiles—(USEPA 624 GC/MS)	☐ 6. Pesticides/PCB's (USEPA 608-GC)
☐ 4. Acids Base/Neutrals (USEPA 625-GC/MS)	☐ 5. Cyanide	☐ 9. BOD
☐ 7. Halogenated Volatiles (USEPA 601-GC)	☐ 8. Aromatic Volatiles (USEPA 602-GC)	☐ 12. TSS
☐ 10. pH	☐ 11. COD	☐ 15. Ammonia
☐ 13. Settleable Solids	☐ 14. TKN	☐ 18. Reactive Phosphorus
☐ 16. Nitrate/Nitrite	☐ 17. Total Phosphorus	☐ 21. Total Phenols
☐ 19. Oil/Grease	☐ 20. TOC	☐ 60. PCB's congener method
☐ 22. Other _____	☐ 59. PCB's at 0.065 ug/L	☐ 64. Total Solids
	☐ 62. CBOD	☐ 65. Volatiles (USEPA 524.2 GC/MS)

CONTRACT LABORATORY PROTOCOLS

☐ 23. (ALL)—Water—Includes 24-28	☐ 29. (ALL)— Soil/Sediments—Includes 30-34
☐ 24. Base/Neutral/Acid (B/N/A)—Water—GC/MS (ASP #89-2)	☐ 30. B/N/A—Soils/Sediment—GC/MS (ASP #89-2)
☒ 25. Volatile Organic Analysis VOA—Water—GC/MS(ASP #89-1)	☐ 31. VOA—Soils/Sediments—GC/MS (ASP #89-1)
☐ 26. Pesticides/PCB's—Water—GC(ASP #89-3)	☐ 32. Pesticides/PCB's—Soils/Sediment—GC (ASP #89-3)
☐ 27. Metals—23 in Water	☐ 33. Metals—23 in Soil/Sediment
☐ 28. Cyanide—Water	☐ 34. Cyanide—Soils/Sediment
☐ 66. Dioxin-Water (ASP #89-4)	☐ 67. Dioxin-Soil/Sediment (ASP #89-4)
☐ 35. Other _____	

HAZARDOUS WASTES/RCRA ANALYSIS SW-846

☐ 36. EP Toxicity	☐ 37. EP Toxicity (Metals Only)	☐ 38. Ignitability
☐ 39. Corrosivity	☐ 40. VOA—(USEPA 8240-GC/MS)	☐ 41. BNA—(USEPA 8270-GC/MS)
☐ 42. Pesticides/PCB's (USEPA 8080)	☐ 43. TCLP	☐ 44. TCLP (Metals Only)
☐ 45. Reactivity	☐ 46. Dioxin (USEPA 8280)	☐ 47. Appendix IX
☐ 48. Other _____	☐ 63. Percent Solids	☐ 68. Metals—17 Hazardous

MUNICIPAL SLUDGE

☐ 49. RSGB-01	☐ 50. RSSR-01	☐ 51. RSGR-01	☐ 52. RSRB-01	☐ 53. RSRI-01 (EP Toxicity-Metals only + RSRR-01)
☐ 54. RSRO-01	☐ 55. RSSB-01	☐ 56. RSRR-01	☐ 57. RSRR-02	☐ 58. Other _____

COLLECTED BY:

Jr James / Jennifer Moore

TELEPHONE NUMBER:

518 457 4349

REGION NO:

1

CONTRACT LAB:

Chromtech

COUNTY:

Nassau

SAMPLING DATE:

9/22/97

MILITARY TIME:

1015

SAMPLE MATRIX:

- ☐ Air ☐ Soil/Sediment ☒ Groundwater ☐ Surface Water ☐ Wastewater ☐ Other (Specify) _____

CASE NUMBER

21A0417

SDG NUMBER

01122

SAMPLE NUMBER

P194566

CHECK FOR MS/MD

- ☐ This Sample

TYPE OF SAMPLE:

- ☒ Grab ☐ Composite ☐ Term _____ hrs

- ☐ Check if there will be more samples with this SDG sent in this calendar week

Report via Category B, unless checked ☐

SAMPLING POINT:

Chemtech Project 5252 DEC
Sample 28801

- Check if field duplicate ☐

Outfall Number

- Check if sampling is part of inspection ☐

SPDES NUMBER/REGISTRY NUMBER

FLOW

GPD
MGD

000004



NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

CONTRACT LAB SAMPLE INFORMATION SHEET

Print legibly

Part 3

CAUTION (check if applicable)

- ☐ Lab Personnel are expected to use caution when handling DEC samples, however, please use special precautions when handling this sample since it is believed to contain significant concentrations of hazardous and/or toxic material(s).

Place QA Label Here

CHECK THE BOX PRECEDING THE REQUESTED ANALYSIS**PRIORITY POLLUTANTS (Water Part 136)—SPDES**

☐ 2. 13 PP Metals	☐ 3. Volatiles—(USEPA 624 GC/MS)	☐ 6. Pesticides/PCB's (USEPA 608-GC)
☐ 4. Acids Base/Neutrals (USEPA 625-GC/MS)	☐ 5. Cyanide	☐ 9. BOD
☐ 7. Halogenated Volatiles (USEPA 601-GC)	☐ 8. Aromatic Volatiles (USEPA 602-GC)	☐ 12. TSS
☐ 10. pH	☐ 11. COD	☐ 15. Ammonia
☐ 13. Settleable Solids	☐ 14. TKN	☐ 18. Reactive Phosphorus
☐ 16. Nitrate/Nitrite	☐ 17. Total Phosphorus	☐ 21. Total Phenols
☐ 19. Oil/Grease	☐ 20. TOC	☐ 60. PCB's congener method
☐ 22. Other _____	☐ 59. PCB's at 0.065 ug/L	☐ 64. Total Solids
	☐ 62. CBOD	☐ 65. Volatiles (USEPA 524.2 GC/MS)

CONTRACT LABORATORY PROTOCOLS

☐ 23. (ALL)—Water—Includes 24-28	☐ 29. (ALL)— Soil/Sediments—Includes 30-34
☐ 24. Base/Neutral/Acid (B/N/A)—Water—GC/MS (ASP #89-2)	☐ 30. B/N/A—Soils/Sediment—GC/MS (ASP #89-2)
☒ 25. Volatile Organic Analysis VOA—Water—GC/MS(ASP #89-1)	☐ 31. VOA—Soils/Sediments—GC/MS (ASP #89-1)
☐ 26. Pesticides/PCB's—Water—GC(ASP #89-3)	☐ 32. Pesticides/PCB's—Soils/Sediment—GC (ASP #89-3)
☐ 27. Metals—23 in Water	☐ 33. Metals—23 in Soil/Sediment
☐ 28. Cyanide—Water	☐ 34. Cyanide—Soils/Sediment
☐ 66. Dioxin-Water (ASP #89-4)	☐ 67. Dioxin-Soil/Sediment (ASP #89-4)
☐ 35. Other _____	

HAZARDOUS WASTES/RCRA ANALYSIS SW-846

☐ 36. EP Toxicity	☐ 37. EP Toxicity (Metals Only)	☐ 38. Ignitability
☐ 39. Corrosivity	☐ 40. VOA—(USEPA 8240-GC/MS)	☐ 41. BNA—(USEPA 8270-GC/MS)
☐ 42. Pesticides/PCB's (USEPA 8080)	☐ 43. TCLP	☐ 44. TCLP (Metals Only)
☐ 45. Reactivity	☐ 46. Dioxin (USEPA 8280)	☐ 47. Appendix IX
☐ 48. Other _____	☐ 63. Percent Solids	☐ 68. Metals—17 Hazardous

MUNICIPAL SLUDGE

☐ 49. RSGB-01	☐ 50. RSSR-01	☐ 51. RSGR-01	☐ 52. RSRB-01	☐ 53. RSRI-01 (EP Toxicity-Metals only + RSRR-01)
☐ 54. RSRO-01	☐ 55. RSSB-01	☐ 56. RSRR-01	☐ 57. RSRR-02	☐ 58. Other _____

COLLECTED BY:

J. Jones / Jennifer Moore

TELEPHONE NUMBER:

416 457 4349

REGION NO:

1

CONTRACT LAB:

WCHM

COUNTY:

Albany

SAMPLING DATE:

9/22/97

MILITARY TIME:

1105

SAMPLE MATRIX:

- ☐ Air ☐ Soil/Sediment ☒ Groundwater ☐ Surface Water ☐ Wastewater ☐ Other (Specify) _____

CASE NUMBER

R1A10917

SDG NUMBER

01122

SAMPLE NUMBER

1294807

CHECK FOR MS/MD☐ This Sample**TYPE OF SAMPLE:**☒ Grab ☐ Composite ☐ Term _____ hrs☐ Check if there will be more samples with this SDG sent in this calendar weekReport via Category B, unless checked ☐**SAMPLING POINT:**Chemtech Project 5252 DEC
Sample 28802**Check if field duplicate**☐**Outfall Number****Check if sampling is part of inspection**☐**SPDES NUMBER/REGISTRY NUMBER****FLOW****GPD****MGD**

VOLATILES DATA

000006

DATA REPORTING QUALIFIERS--ORGANIC

For reporting results, the following "Results Qualifiers" are used:

VALUE - If the result is a value greater than or equal to the detection limit, report the value.

U - Indicates the compound was analyzed for, but was not detected. Report the minimum detection limit for the sample with the U, "10U". This is not necessarily the instrument detection limit. The figure represents the minimum detection limit attainable for this particular sample based on any concentration or dilution that may have been required.

J - Indicates an estimated value. This flag is used:

- 1) When estimating a concentration for tentatively identified compound (library search hits, where a 1:1 response is assumed.)
- 2) When the mass spectral data indicated the identification criteria, however, the result was less than the specified detection limit but greater than zero. If the detection limit was 10 ug/L and a concentration of 3 ug/L was calculated, report as "3J".

B - Indicates the analyte was found in the blank as well as the sample; report as "12B".

E - Indicates the analyte's concentration exceeds the calibrated range of the GC/MS instrument for that specific analysis.

D - This flag identifies all compounds identified in an analysis at a secondary dilution factor.

P- This flag is used for a Pesticide/Aroclor target analyte when there is >25% difference for detected concentrations between the two GC columns. The lower of the two values is reported on Form I and flagged with a "P".

N- This flag indicates presumptive evidence of a compound. This flag is only used for tentatively identified compounds (TICs), where the identification is based on a mass spectral library search. It is applied to all TIC results. For generic characterization of a TIC, such as chlorinated hydrocarbon, the flag is not used.

VOLATILES

QC SUMMARY

000008

WATER VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: CHEMTECHContract: NEW YORK STATE D.E.C.Project No.: 5252DEC

Site: _____

Location: _____

Group: _____

	SAMPLE NO.	SMC1 #	SMC2 #	SMC3 #	OTHER #	TOT OUT
01	VBLK01	94	96	98		
02	TB	98	97	100		
03	B94865	102	98	102		
04	B94866	98	95	98		
05	B94867	98	94	97		
06	VBLK02	95	98	100		
07	B94865DL	104	101	106		
08	B94866DL	101	97	102		
09	B94867DL	95	91	95		
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SMC1 = Dibromofluoromethane

SMC2 = Toluene-d8

SMC3 = 4-Bromofluorobenzene

QC LIMITS

(86-118)

(88-110)

(86-115)

Column to be used to flag recovery values

* Values outside of contract required QC limits

D System Monitoring Compound diluted out

WATER VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: CHEMTECHContract: WOODWARD-CLYDE CONSULTANTSLab Code: CHEM Case No.: 5284CLP

SAS No.: _____

SDG No.: _____

Matrix Spike - EPA Sample No.: BRMW-14

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC #	QC. LIMITS REC.
1,1-Dichloroethene	50	0	39	78	(61-145)
Trichloroethene	50	0	47	94	(71-120)
Benzene	50	1805	1864	118	(76-127)
Toluene	50	820	794	0 *	(76-125)
Chlorobenzene	50	0	47	94	(75-130)

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MS % REC #	% RPD #	QC LIMITS RPD REC.
1,1-Dichloroethene	50	41	82	5	14 (61-145)
Trichloroethene	50	47	94	0	14 (71-120)
Benzene	50	1855	100	17 *	11 (76-127)
Toluene	50	770	0 *	0	13 (76-125)
Chlorobenzene	50	48	96	2	13 (75-130)

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

* Values outside of QC limits

RPD: 2 out of 5 outside limits

Spike Recovery: 2 out of 10 outside limits

Comments: _____

4A
VOLATILE METHOD BLANK SUMMARY

SAMPLE NO.

VBK01

Lab Name: CHEMTECH Contract: NEW YO

Project No.: 5252DEC Site: _____ Location: _____ Group: _____

Lab File ID: V6920.D Lab Sample ID: VBK01

Date Analyzed: 10/13/97 Time Analyzed: 1608

GC Column: RTX624 ID: 0.53 (mm) Heated Purge: (Y/N) N

Instrument ID: VOA1

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

	SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	TB	O28799	V6922.D	1733
02	B94865	O28800	V6923.D	1816
03	B94866	O28801	V6924.D	1859
04	B94867	O28802	V6925.D	1943
05				
06				
07				
08				
09				
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COMMENTS:

4A
VOLATILE METHOD BLANK SUMMARY

SAMPLE NO.

VBK02

Lab Name: CHEMTECH Contract: NEW YO

Project No.: 5252DEC Site: _____ Location: _____ Group: _____

Lab File ID: V6938.D Lab Sample ID: VBK02

Date Analyzed: 10/14/97 Time Analyzed: 1528

GC Column: RTX624 ID: 0.53 (mm) Heated Purge: (Y/N) N

Instrument ID: VOA1

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

	SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	B94865DL	O28800DL	V6939.D	1609
02	B94866DL	O28801DL	V6940.D	1651
03	B94867DL	O28802DL	V6941.D	1733
04				
05				
06				
07				
08				
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COMMENTS:

5A
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name : CHEMTECH Contract: NEW YORK STATE D.E.C.
 Project No.: 5252DEC Site: _____ Location: _____ Group: _____
 Lab File ID: V6606.D BFB Injection Date: 9/25/97
 Instrument ID: VOA1 BFB Injection Time: 1133
 GC Column: RTX624 ID: 0.53 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	%RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	21.0
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	7.2
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	> 50.0 % of mass 95	60.4
175	5.0 - 9.0% of mass 174	4.7 (7.9)1
176	95.0 - 101.0% of mass 174	58.9 (97.6)1
177	5.0 - 9.0% of mass 176	4.0 (6.9)2

1-Value is % mass 174

2-Value is % mass 176

This check applies to the following SAMPLES, MS, MSD, BLANKS and STANDARDS:

	SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD020	VSTD020	V6608.D	9/25/97	1248
02	VSTD050	VSTD050	V6609.D	9/25/97	1329
03	VSTD010	VSTD005	V6610.D	9/25/97	1414
04	VSTD100	VSTD100	V6611.D	9/25/97	1456
05	VSTD200	VSTD200	V6612.D	9/25/97	1537
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21					
22					

**VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)**

Lab Name : CHEMTECH Contract: NEW YORK STATE D.E.C.
 Project No.: 5252DEC Site: _____ Location: _____ Group: _____
 Lab File ID: V6917.D BFB Injection Date: 10/13/97
 Instrument ID: VOA1 BFB Injection Time: 1410
 GC Column: RTX624 ID: 0.53 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	%RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	19.4
75	30.0 - 60.0% of mass 95	43.2
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.7
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	> 50.0 % of mass 95	65.4
175	5.0 - 9.0% of mass 174	4.9 (7.5)1
176	95.0 - 101.0% of mass 174	65.0 (99.4)1
177	5.0 - 9.0% of mass 176	4.2 (6.5)2

1-Value is % mass 174

2-Value is % mass 176

This check applies to the following SAMPLES, MS, MSD, BLANKS and STANDARDS:

	SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD050	VSTD0502	V6918.D	10/13/97	1440
02	VBLK01	VBLK01	V6920.D	10/13/97	1608
03	TB	O28799	V6922.D	10/13/97	1733
04	B94865	O28800	V6923.D	10/13/97	1816
05	B94866	O28801	V6924.D	10/13/97	1859
06	B94867	O28802	V6925.D	10/13/97	1943
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5A
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name : CHEMTECH Contract: NEW YORK STATE D.E.C.
 Project No.: 5252DEC Site: _____ Location: _____ Group: _____
 Lab File ID: V6935.D BFB Injection Date: 10/14/97
 Instrument ID: VOA1 BFB Injection Time: 1333
 GC Column: RTX624 ID: 0.53 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	%RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	18.7
75	30.0 - 60.0% of mass 95	43.2
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.9
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	> 50.0 % of mass 95	64.6
175	5.0 - 9.0% of mass 174	5.1 (7.9)1
176	95.0 - 101.0% of mass 174	64.5 (99.7)1
177	5.0 - 9.0% of mass 176	4.4 (6.9)2

1-Value is % mass 174

2-Value is % mass 176

This check applies to the following SAMPLES, MS, MSD, BLANKS and STANDARDS:

	SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD050	VSTD0503	V6936.D	10/14/97	1404
02	VBLK02	VBLK02	V6938.D	10/14/97	1528
03	B94865DL	O28800DL	V6939.D	10/14/97	1609
04	B94866DL	O28801DL	V6940.D	10/14/97	1651
05	B94867DL	O28802DL	V6941.D	10/14/97	1733
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VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECHContract: NEW YORK STATE D.E.C.Project No.: 5252DEC

Site: _____

Location: _____

Group: _____

Lab File ID (Standard): V6918.DDate Analyzed: 10/13/97Instrument ID: VOA1Time Analyzed: 1440GC Column: RTX624ID: 0.53 (mm)Heated Purge (Y/N) N

	IS1 0 AREA #	RT #	IS2 0 AREA #	RT #	IS3 0 AREA #	RT #
12 HOUR STD	1827627	9.34	2900602	11.98	3000556	20.25
UPPER LIMIT	3655254	9.84	5801204	12.48	6001112	20.75
LOWER LIMIT	913814	8.84	1450301	11.48	1500278	19.75
SAMPLE NO.						
01 VBLK01	2183836	9.35	3230341	12.00	3283202	20.24
02 TB	2029420	9.38	3098479	12.02	3124984	20.26
03 B94865	1674222	9.39	2538427	12.02	2618008	20.26
04 B94866	1920947	9.38	2904121	12.02	2953462	20.26
05 B94867	1889649	9.39	2840651	12.01	2872275	20.25
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22						

IS1 0 = Pentafluorobenzene

IS2 0 = 1,4-Difluorobenzene

IS3 0 = Chlorobenzene-d5

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk

* Values outside of QC limits.

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: _____ Contract: _____

Project No.: _____ Site: _____ Location: _____ Group: _____

Lab File ID (Standard): _____ Date Analyzed: _____

Instrument ID: _____ Time Analyzed: _____

GC Column: _____ ID: _____ (mm) Heated Purge (Y/N) _____

	IS4 0					
	AREA #	RT #	AREA #	RT #	AREA #	RT #
12 HOUR STD	1558043	26.10				
UPPER LIMIT	3116086	26.60				
LOWER LIMIT	779022	25.60				
SAMPLE NO.						
01 VBLK01	1770957	26.10				
02 TB	1694578	26.11				
03 B94865	1373467	26.11				
04 B94866	1548842	26.11				
05 B94867	1517168	26.11				
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IS4 0 = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk

* Values outside of QC limits.

8A
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: NEW YORK STATE D.E.C.
 Project No.: 5252DEC Site: _____ Location: _____ Group: _____
 Lab File ID (Standard): V6936.D Date Analyzed: 10/14/97
 Instrument ID: VOA1 Time Analyzed: 1404
 GC Column: RTX624 ID: 0.53 (mm) Heated Purge (Y/N) N

	IS1 0 AREA #	RT #	IS2 0 AREA #	RT #	IS3 0 AREA #	RT #
12 HOUR STD	1824627	9.30	2783809	11.95	2835278	20.24
UPPER LIMIT	3649254	9.80	5567618	12.45	5670556	20.74
LOWER LIMIT	912314	8.80	1391905	11.45	1417639	19.74
SAMPLE NO.						
01 VBLK02	2047643	9.31	3000453	11.96	3108603	20.23
02 B94865DL	1521853	9.32	2295006	11.95	2414750	20.23
03 B94866DL	1790971	9.31	2667355	11.94	2783065	20.23
04 B94867DL	1743665	9.32	2638778	11.96	2735950	20.23
05						
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20						
21						
22						

IS1 0 = Pentafluorobenzene
 IS2 0 = 1,4-Difluorobenzene
 IS3 0 = Chlorobenzene-d5

AREA UPPER LIMIT = +100% of internal standard area
 AREA LOWER LIMIT = -50% of internal standard area
 RT UPPER LIMIT = +0.50 minutes of internal standard RT
 RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk
 * Values outside of QC limits.

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: _____ Contract: _____
 Project No.: _____ Site: _____ Location: _____ Group: _____
 Lab File ID (Standard): _____ Date Analyzed: _____
 Instrument ID: _____ Time Analyzed: _____
 GC Column: _____ ID: _____ (mm) Heated Purge (Y/N) _____

	IS4 0					
	AREA #	RT #	AREA #	RT #	AREA #	RT #
12 HOUR STD	1494484	26.10				
UPPER LIMIT	2988968	26.60				
LOWER LIMIT	747242	25.60				
SAMPLE NO.						
01 VBLK02	1702343	26.09				
02 B94865DL	1258480	26.09				
03 B94866DL	1461642	26.09				
04 B94867DL	1465506	26.10				
05						
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22						

IS4 0 = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area
 AREA LOWER LIMIT = -50% of internal standard area
 RT UPPER LIMIT = +0.50 minutes of internal standard RT
 RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk

* Values outside of QC limits.

VOLATILES

SAMPLE DATA

000020

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

TB

Lab Name: CHEMTECH Contract: NEW YORK STATE D.E.C.

Project No.: 5252DEC Site: _____ Location: _____ Group: _____

Matrix: (soil/water) WATER Lab Sample ID: O28799

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: V6922.D

Level: (low/med) _____ Date Received: 9/24/97

% Moisture: not dec. 100 Date Analyzed: 10/13/97

GC Column: RTX624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Concentration Units:

CAS No.	Compound	(ug/L or ug/Kg)	ug/L	Q
75-71-8	Dichlorodifluoromethane	5		U
74-87-3	Chloromethane	5		U
75-01-4	Vinyl Chloride	5		U
74-83-9	Bromomethane	5		U
75-00-3	Chloroethane	5		U
75-69-4	Trichlorofluoromethane	5		U
75-35-4	1,1-Dichloroethene	5		U
75-09-2	Methylene Chloride	5		U
156-60-5	trans-1,2-Dichloroethene	5		U
75-34-4	1,1-Dichloroethane	5		U
590-20-7	2,2-Dichloropropane	5		U
156-60-5	cis-1,2-dichloroethene	5		U
74-97-5	Bromochloromethane	5		U
67-66-3	Chloroform	5		U
71-55-6	1,1,1-Trichloroethane	5		U
56-23-5	Carbon Tetrachloride	5		U
563-58-6	1,1-Dichloropropene	5		U
71-43-2	Benzene	5		U
107-06-2	1,2-Dichloroethane	5		U
79-01-6	Trichloroethene	5		U
78-87-5	1,2-Dichloropropane	5		U
74-95-3	Dibromomethane	5		U
75-27-4	Bromodichloromethane	5		U
10061-01-5	cis-1,3-Dichloropropene	5		U
108-88-3	Toluene	5		U
10061-02-6	trans-1,3-Dichloropropene	5		U
79-00-5	1,1,2-Trichloroethane	5		U
127-18-4	Tetrachloroethene	5		U
142-28-9	1,3-Dichloropropane	5		U
124-48-1	Dibromochloromethane	5		U
106-93-4	1,2-Dibromoethane	5		U
108-90-7	Chlorobenzene	5		U
630-20-6	1,1,1,2-Tetrachloroethane	5		U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

TB

Lab Name: CHEMTECH Contract: NEW YORK STATE D.E.C.

Project No.: 5252DEC Site: _____ Location: _____ Group: _____

Matrix: (soil/water) WATER Lab Sample ID: O28799

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: V6922.D

Level: (low/med) _____ Date Received: 9/24/97

% Moisture: not dec. 100 Date Analyzed: 10/13/97

GC Column: RTX624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Concentration Units:

CAS No.	Compound	(ug/L or ug/Kg)	ug/L	Q
100-41-4	Ethylbenzene	5		U
1330-20-7	m&p-xylenes	5		U
95-47-6	o-xylene	5		U
100-42-5	Styrene	5		U
75-25-2	Bromoform	5		U
98-82-8	isopropylbenzene	5		U
108-86-1	Bromobenzene	5		U
79-34-5	1,1,2,2-Tetrachloroethane	5		U
96-18-4	1,2,3-Trichloropropane	5		U
103-65-1	n-Propylbenzene	5		U
95-49-8	2-Chlorotoluene	5		U
106-43-4	4-Chlorotoluene	5		U
108-67-8	1,3,5-Trimethylbenzene	5		U
98-06-6	tert-Butylbenzene	5		U
95-63-6	1,2,4-Trimethylbenzene	5		U
135-98-8	sec-Butylbenzene	5		U
541-73-1	1,3-Dichlorobenzene	5		U
99-87-6	4-Isopropyltoluene	5		U
106-46-7	1,4-Dichlorobenzene	5		U
95-50-1	1,2-Dichlorobenzene	5		U
104-51-8	n-Butylbenzene	5		U
96-12-8	1,2-Dibromo-3-chloropropane	5		U
120-82-1	1,2,4-Trichlorobenzene	5		U
87-68-3	Hexachlorobutadiene	5		U
91-20-3	Naphthalene	5		U
87-61-6	1,2,3-Trichlorobenzene	5		U

IE
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.

TB

Lab Name: CHEMTECH Contract: NEW YORK STATE D.E.C.
 Project No. 5252 Site: _____ Location: _____ Group: _____
 Matrix: (soil/water) WATER Lab Sample ID: O28799
 Sample wt/vol: 5.0 (g/mL) ML Lab File ID: V6922.D
 Level: (low/med) _____ Date Received: 9/24/97
 % Moisture: not dec. 100 Date Analyzed: 10/13/97
 GC Column: RTX624 ID: 0.53 (mm) Dilution Factor: 1.0
 Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Number TICs found: 0 Concentration Units:
 (ug/L or ug/Kg) ug/L

CAS Number	Compound Name	RT	Est. Conc.	Q
1.				
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
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28.				
29.				
30.				

Quantitation Report

Data File : D:\HPCHEM\1\DATA\V6922.D

Acq Time : 13 Oct 97 5:33 pm

Sample : 5252DEC-28799

Misc : 5ML

Quant Time: Oct 23 20:51 1997

Operator:

Inst : 5971 - I

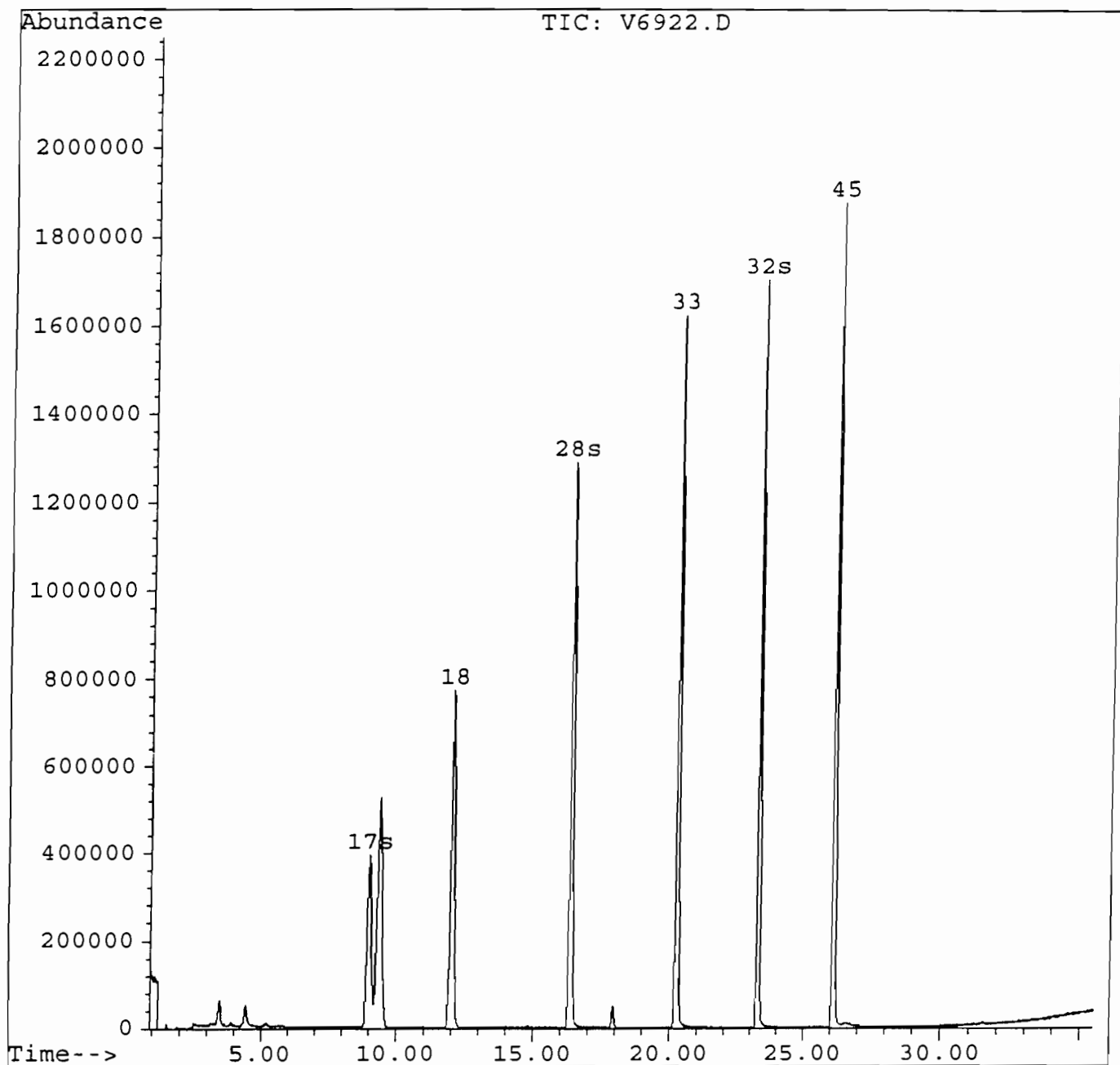
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\8260RUNW.M

Title : 524.2 Purgable Organics

Last Update : Thu Sep 25 17:02:16 1997

Response via : Multiple Level Calibration



Quantitation Report

Data File : D:\HPCHEM\1\DATA\V6922.D
 Acq Time : 13 Oct 97 5:33 pm
 Sample : 5252DEC-28799
 Misc : 5ML
 Quant Time: Oct 23 20:51 1997

Operator:
 Inst : 5971 -
 Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\8260RUNW.M
 Title : 524.2 Purgable Organics
 Last Update : Thu Sep 25 17:02:16 1997
 Response via : Multiple Level Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	9.38	168	2029420	50.00	ug/L	0.09
18) 1,4-Difluorobenzene	12.02	114	3098479	50.00	ug/L	0.10
33) Chlorobenzene-d5	20.26	117	3124984	50.00	ug/L	0.26
45) 1,4-dichlorobenzene-d4	26.11	152	1694578	50.00	ug/L	0.09

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	%Recovery
17) Dibromofluoromethane	9.02	113	1408492	49.18	ug/L	98.36
28) Toluene-d8	16.36	98	3309923	48.40	ug/L	96.80
32) 4-Bromofluorobenzene	23.30	95	2220350	50.20	ug/L	100.41

Target Compounds Qvalue

Library Search Compound Report

Data File : D:\HPCHEM\1\DATA\V6922.D
Acq Time : 13 Oct 97 5:33 pm
Sample : 5252DEC-28799
Misc : 5ML

Operator:
Inst : 5971 - I1
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\8260RUNW.M
Title : 524.2 Purgable Organics
Library : NBS75K.L

No Library Search Compounds Detected

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

B94865

Lab Name: CHEMTECH Contract: NEW YORK STATE D.E.C.

Project No.: 5252DEC Site: _____ Location: _____ Group: _____

Matrix: (soil/water) WATER Lab Sample ID: O28800

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: V6923.D

Level: (low/med) _____ Date Received: 9/24/97

% Moisture: not dec. 100 Date Analyzed: 10/13/97

GC Column: RTX624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CAS No.	Compound	Concentration Units:	
		(ug/L or ug/Kg)	ug/L
			Q
75-71-8	Dichlorodifluoromethane	5	U
74-87-3	Chloromethane	5	U
75-01-4	Vinyl Chloride	5	U
74-83-9	Bromomethane	5	U
75-00-3	Chloroethane	5	U
75-69-4	Trichlorofluoromethane	5	U
75-35-4	1,1-Dichloroethene	5	U
75-09-2	Methylene Chloride	5	U
156-60-5	trans-1,2-Dichloroethene	5	U
75-34-4	1,1-Dichloroethane	5	U
590-20-7	2,2-Dichloropropane	5	U
156-60-5	cis-1,2-dichloroethene	5	U
74-97-5	Bromochloromethane	5	U
67-66-3	Chloroform	5	U
71-55-6	1,1,1-Trichloroethane	130	
56-23-5	Carbon Tetrachloride	5	U
563-58-6	1,1-Dichloropropene	5	U
71-43-2	Benzene	5	U
107-06-2	1,2-Dichloroethane	5	U
79-01-6	Trichloroethene	480	E
78-87-5	1,2-Dichloropropane	5	U
74-95-3	Dibromomethane	5	U
75-27-4	Bromodichloromethane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
108-88-3	Toluene	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
79-00-5	1,1,2-Trichloroethane	5	U
127-18-4	Tetrachloroethene	53	
142-28-9	1,3-Dichloropropane	5	U
124-48-1	Dibromochloromethane	5	U
106-93-4	1,2-Dibromoethane	5	U
108-90-7	Chlorobenzene	5	U
630-20-6	1,1,1,2-Tetrachloroethane	5	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

B94865

Lab Name: CHEMTECH Contract: NEW YORK STATE D.E.C.

Project No.: 5252DEC Site: _____ Location: _____ Group: _____

Matrix: (soil/water) WATER Lab Sample ID: O28800

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: V6923.D

Level: (low/med) _____ Date Received: 9/24/97

% Moisture: not dec. 100 Date Analyzed: 10/13/97

GC Column: RTX624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CAS No.	Compound	Concentration Units:	
		(ug/L or ug/Kg)	ug/L
			Q
100-41-4	Ethylbenzene	5	U
1330-20-7	m&p-xylenes	5	U
95-47-6	o-xylene	5	U
100-42-5	Styrene	5	U
75-25-2	Bromoform	5	U
98-82-8	isopropylbenzene	5	U
108-86-1	Bromobenzene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
96-18-4	1,2,3-Trichloropropane	5	U
103-65-1	n-Propylbenzene	5	U
95-49-8	2-Chlorotoluene	5	U
106-43-4	4-Chlorotoluene	5	U
108-67-8	1,3,5-Trimethylbenzene	5	U
98-06-6	tert-Butylbenzene	5	U
95-63-6	1,2,4-Trimethylbenzene	5	U
135-98-8	sec-Butylbenzene	5	U
541-73-1	1,3-Dichlorobenzene	5	U
99-87-6	4-Isopropyltoluene	5	U
106-46-7	1,4-Dichlorobenzene	5	U
95-50-1	1,2-Dichlorobenzene	5	U
104-51-8	n-Butylbenzene	5	U
96-12-8	1,2-Dibromo-3-chloropropane	5	U
120-82-1	1,2,4-Trichlorobenzene	5	U
87-68-3	Hexachlorobutadiene	5	U
91-20-3	Naphthalene	5	U
87-61-6	1,2,3-Trichlorobenzene	5	U

IE
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.

B94865

Lab Name: CHEMTECH

Contract: NEW YORK STATE D.E.C.

Project No. 5252

Site:

Location:

Group:

Matrix: (soil/water) WATER

Lab Sample ID: O28800

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

Lab File ID: V6923.D

Level: (low/med)

Date Received: 9/24/97

% Moisture: not dec. 100

Date Analyzed: 10/13/97

GC Column: RTX624

ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

Concentration Units:

Number TICs found: 0

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

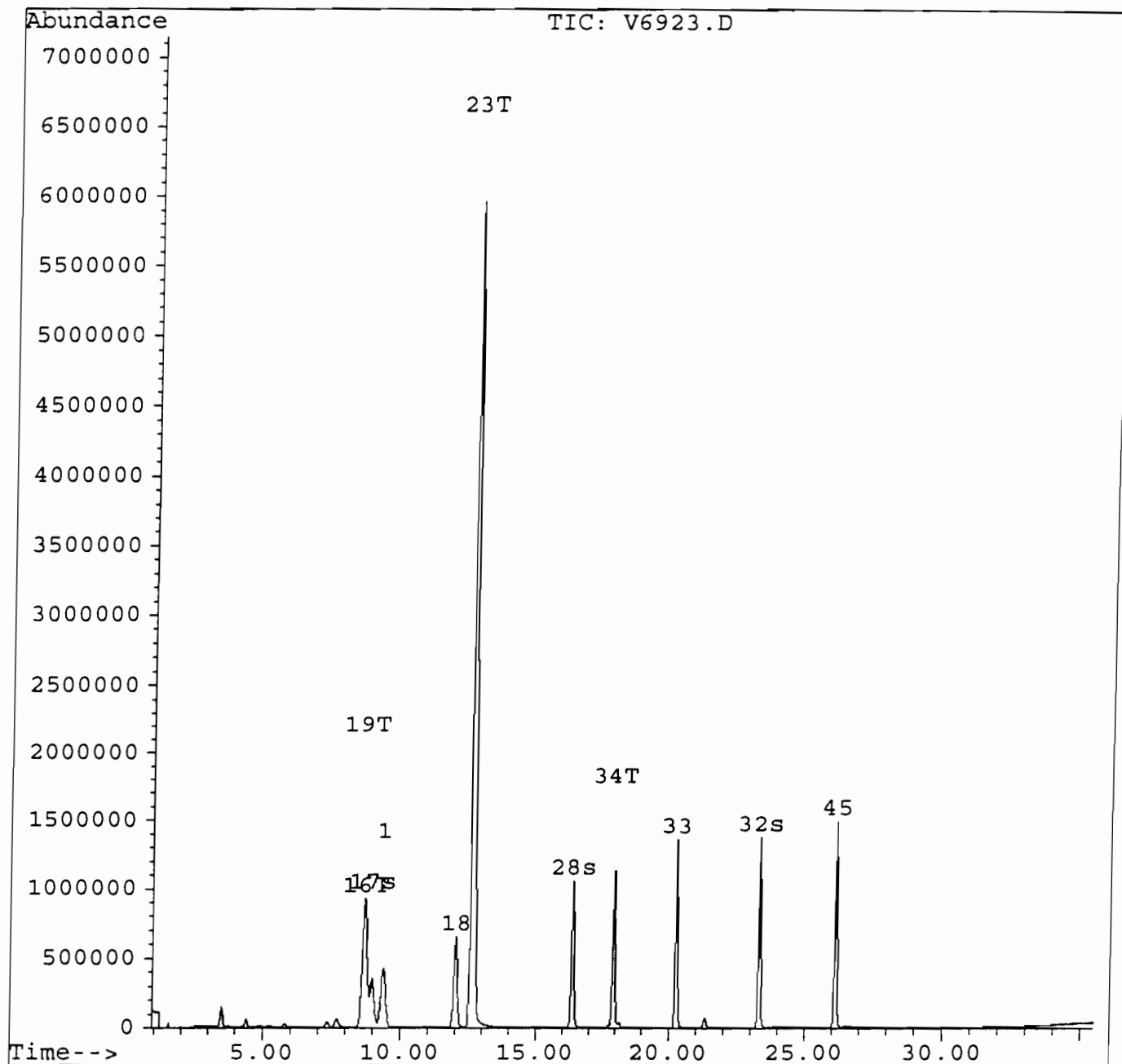
CAS Number	Compound Name	RT	Est. Conc.	Q
1.				
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

Quantitation Report

Data File : D:\HPCHEM\1\DATA\V6923.D
Acq Time : 13 Oct 97 6:16 pm
Sample : 5252DEC-28800
Misc : 5ML
Quant Time: Oct 23 20:51 1997

Operator:
Inst : 5971 - In
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\8260RUNW.M
Title : 524.2 Purgable Organics
Last Update : Thu Sep 25 17:02:16 1997
Response via : Multiple Level Calibration



Quantitation Report

Data File : D:\HPCHEM\1\DATA\V6923.D
 Acq Time : 13 Oct 97 6:16 pm
 Sample : 5252DEC-28800
 Misc : 5ML
 Quant Time: Oct 23 20:51 1997

Operator:
 Inst : 5971 - I
 Multiplr: 1.00

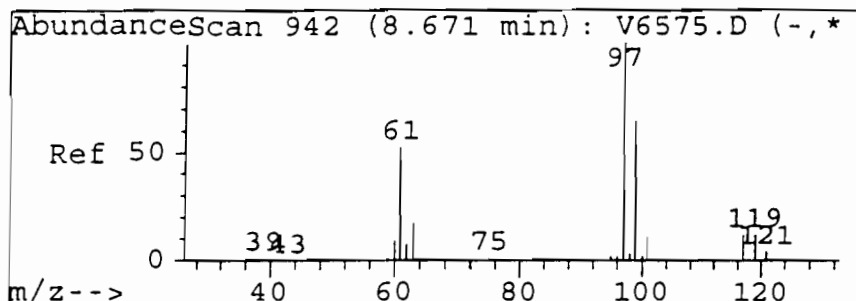
Method : C:\HPCHEM\1\METHODS\8260RUNW.M
 Title : 524.2 Purgable Organics
 Last Update : Thu Sep 25 17:02:16 1997
 Response via : Multiple Level Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	9.39	168	1674222	50.00	ug/L	0.11
18) 1,4-Difluorobenzene	12.02	114	2538427	50.00	ug/L	0.09
33) Chlorobenzene-d5	20.26	117	2618008	50.00	ug/L	0.25
45) 1,4-dichlorobenzene-d4	26.11	152	1373467	50.00	ug/L	0.09

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	%Recovery
17) Dibromofluoromethane	8.98	113	1204537	50.98	ug/L	101.96%
28) Toluene-d8	16.37	98	2733391	48.79	ug/L	97.58%
32) 4-Bromofluorobenzene	23.30	95	1840692	50.80	ug/L	101.60%

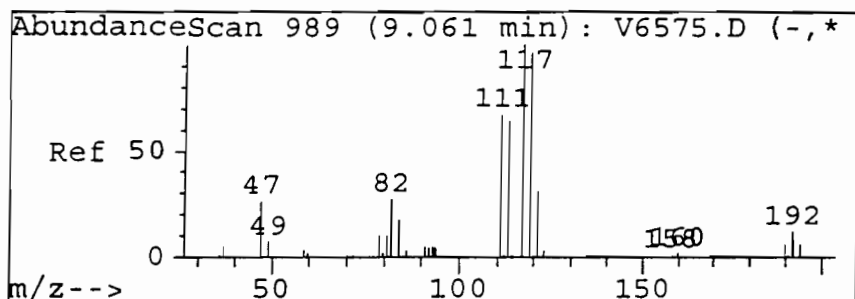
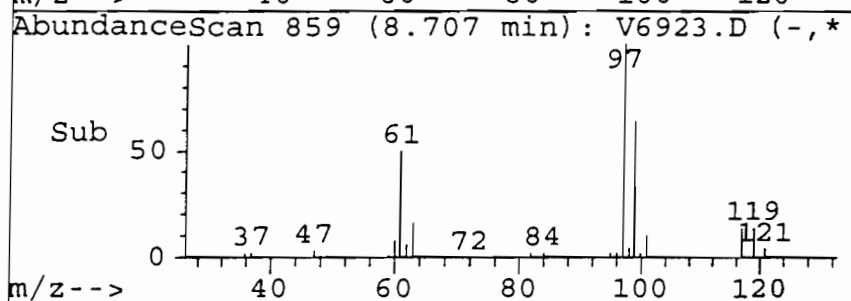
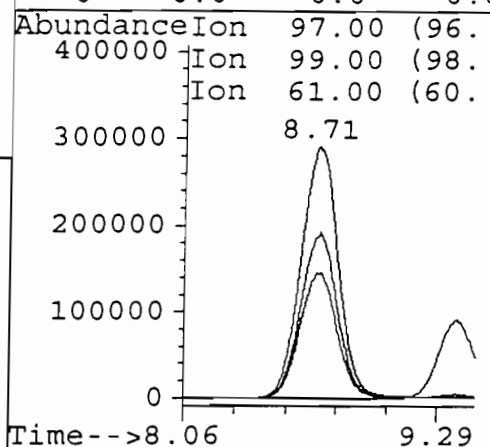
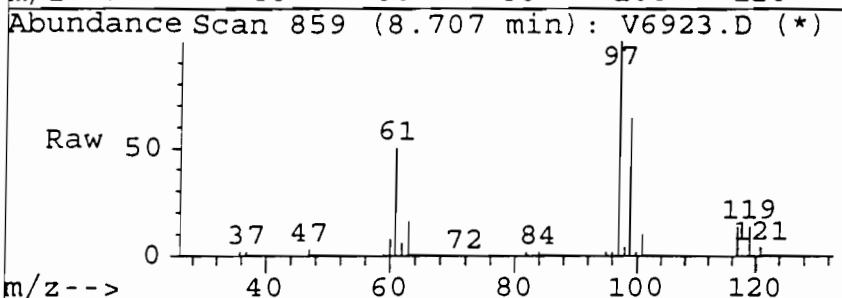
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) 1,1,1-trichloroethane	8.71	97	3661283	128.07	ug/L	99
~~19) carbon tetrachloride~~	8.71	117	502254	32.85	ug/L	96
23) trichloroethene	12.65	130	9613599	476.02	ug/L	94
34) tetrachloroethene	17.94	166	1272057	53.42	ug/L	99

10/23/97



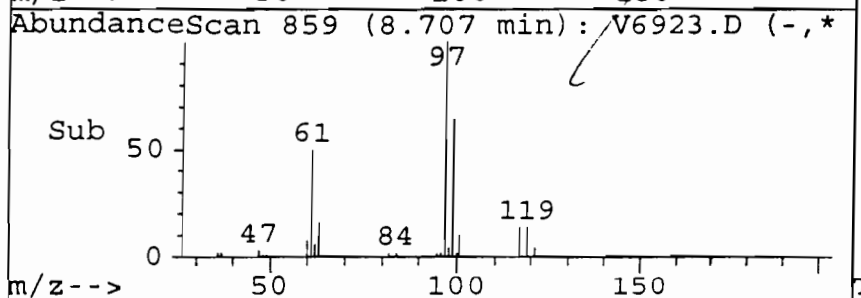
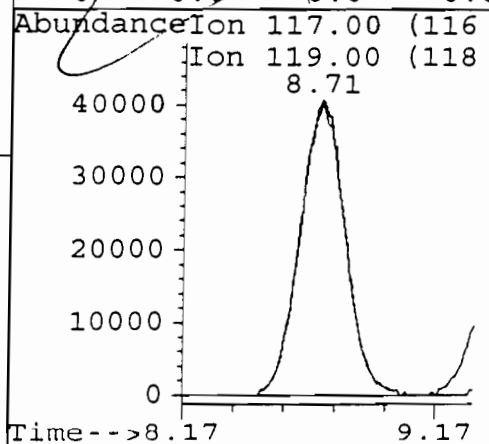
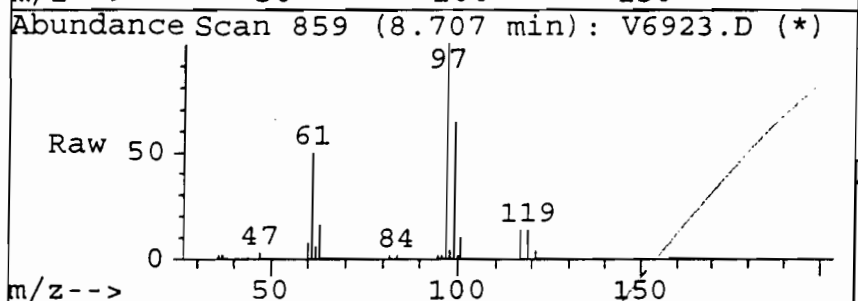
#16
1,1,1-trichloroethane
Concen: 128.07 ug/L
RT: 8.71 min Scan# 859
Delta R.T. 0.11 min
Lab File: V6923.D
Acq: 13 Oct 97 6:16 pm

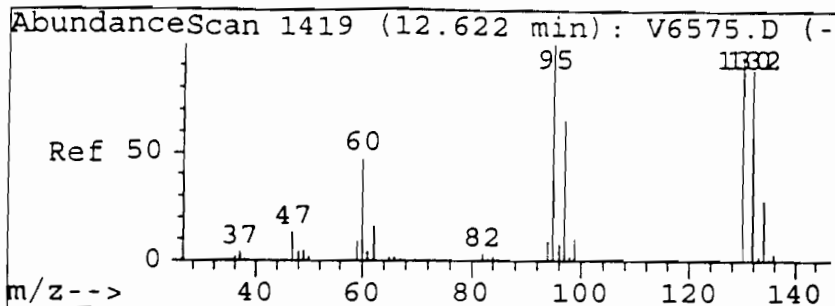
Tgt Ion:97 Resp: 3661283
Ion Ratio Lower Upper
97 100
99 64.3 45.7 84.9
61 49.6 34.9 64.7
0 0.0 0.0 0.0



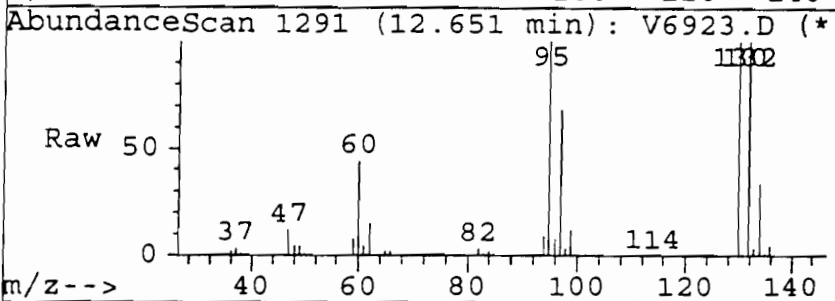
#19
carbon tetrachloride
Concen: 32.85 ug/L
RT: 8.71 min Scan# 859
Delta R.T. -0.31 min
Lab File: V6923.D
Acq: 13 Oct 97 6:16 pm

Tgt Ion:117 Resp: 502254
Ion Ratio Lower Upper
117 100
119 99.2 66.6 123.8
0 0.0 0.0 0.0
0 0.0 0.0 0.0

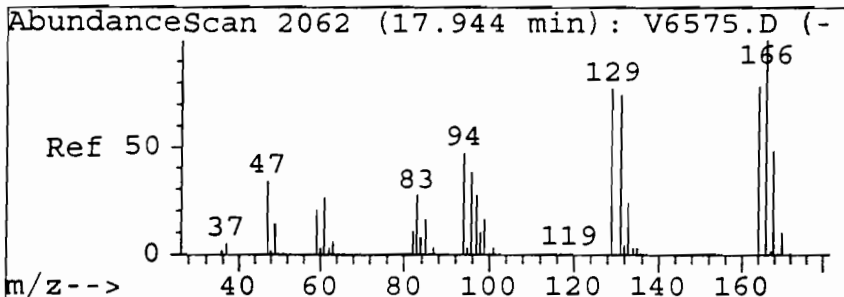
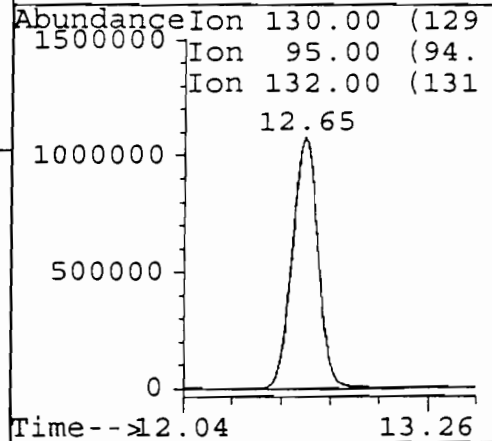
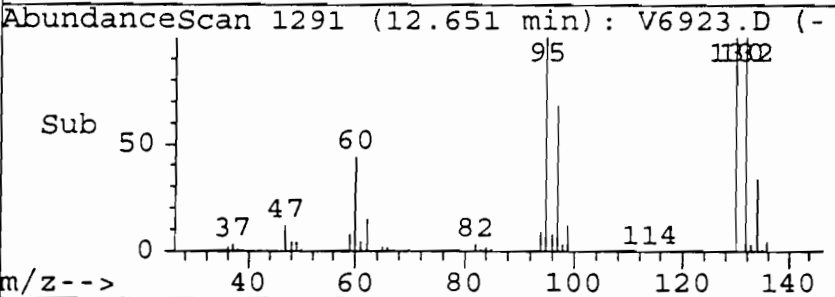




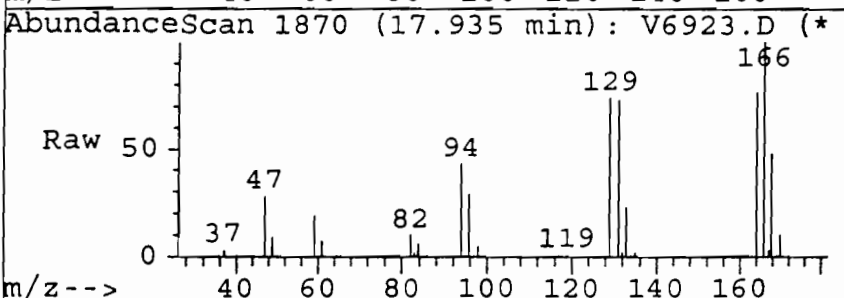
#23
trichloroethene
Concen: 476.02 ug/L
RT: 12.65 min Scan# 1291
Delta R.T. 0.12 min
Lab File: V6923.D
Acq: 13 Oct 97 6:16 pm



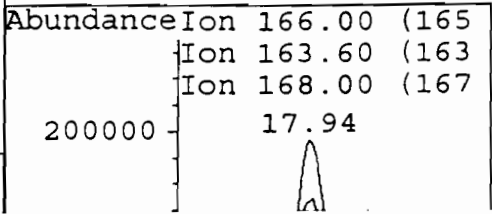
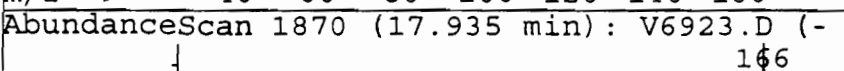
Tgt Ion:130 Resp: 9613599
Ion Ratio Lower Upper
130 100
95 100.3 76.2 141.4
132 100.3 67.2 124.8
0 0.0 0.0 0.0



#34
tetrachloroethene
Concen: 53.42 ug/L
RT: 17.94 min Scan# 1870
Delta R.T. 0.23 min
Lab File: V6923.D
Acq: 13 Oct 97 6:16 pm



Tgt Ion:166 Resp: 1272057
Ion Ratio Lower Upper
166 100
164 75.6 53.6 99.5
168 47.6 33.4 62.0
0 0.0 0.0 0.0



1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

B94865DL

Lab Name: CHEMTECH

Contract: NEW YORK STATE D.E.C.

Project No.: 5252DEC

Site:

Location:

Group:

Matrix: (soil/water) WATER

Lab Sample ID: O28800DL

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

Lab File ID: V6939.D

Level: (low/med)

Date Received: 9/24/97

% Moisture: not dec. 100

Date Analyzed: 10/14/97

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

B94865DL

Lab Name: CHEMTECH Contract: NEW YORK STATE D.E.C.

Project No.: 5252DEC Site: _____ Location: _____ Group: _____

Matrix: (soil/water) WATER Lab Sample ID: O28800DL

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: V6939.D

Level: (low/med) _____ Date Received: 9/24/97

% Moisture: not dec. 100 Date Analyzed: 10/14/97

GC Column: RTX624 ID: 0.53 (mm) Dilution Factor: 10.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CAS No.	Compound	Concentration Units:		Q
		(ug/L or ug/Kg)	ug/L	
100-41-4	Ethylbenzene	50		UD
1330-20-7	m&p-xylenes	50		UD
95-47-6	o-xylene	50		UD
100-42-5	Styrene	50		UD
75-25-2	Bromoform	50		UD
98-82-8	isopropylbenzene	50		UD
108-86-1	Bromobenzene	50		UD
79-34-5	1,1,2,2-Tetrachloroethane	50		UD
96-18-4	1,2,3-Trichloropropane	50		UD
103-65-1	n-Propylbenzene	50		UD
95-49-8	2-Chlorotoluene	50		UD
106-43-4	4-Chlorotoluene	50		UD
108-67-8	1,3,5-Trimethylbenzene	50		UD
98-06-6	tert-Butylbenzene	50		UD
95-63-6	1,2,4-Trimethylbenzene	50		UD
135-98-8	sec-Butylbenzene	50		UD
541-73-1	1,3-Dichlorobenzene	50		UD
99-87-6	4-Isopropyltoluene	50		UD
106-46-7	1,4-Dichlorobenzene	50		UD
95-50-1	1,2-Dichlorobenzene	50		UD
104-51-8	n-Butylbenzene	50		UD
96-12-8	1,2-Dibromo-3-chloropropane	50		UD
120-82-1	1,2,4-Trichlorobenzene	50		UD
87-68-3	Hexachlorobutadiene	50		UD
91-20-3	Naphthalene	50		UD
87-61-6	1,2,3-Trichlorobenzene	50		UD

IE
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.

B94865DL

Lab Name: CHEMTECH Contract: NEW YORK STATE D.E.C.
Project No. 5252 Site: _____ Location: _____ Group: _____
Matrix: (soil/water) WATER Lab Sample ID: O28800DL
Sample wt/vol: 5.0 (g/mL) ML Lab File ID: V6939.D
Level: (low/med) _____ Date Received: 9/24/97
% Moisture: not dec. 100 Date Analyzed: 10/14/97
GC Column: RTX624 ID: 0.53 (mm) Dilution Factor: 10.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Number TICs found: 0 Concentration Units:
(ug/L or ug/Kg) ug/L

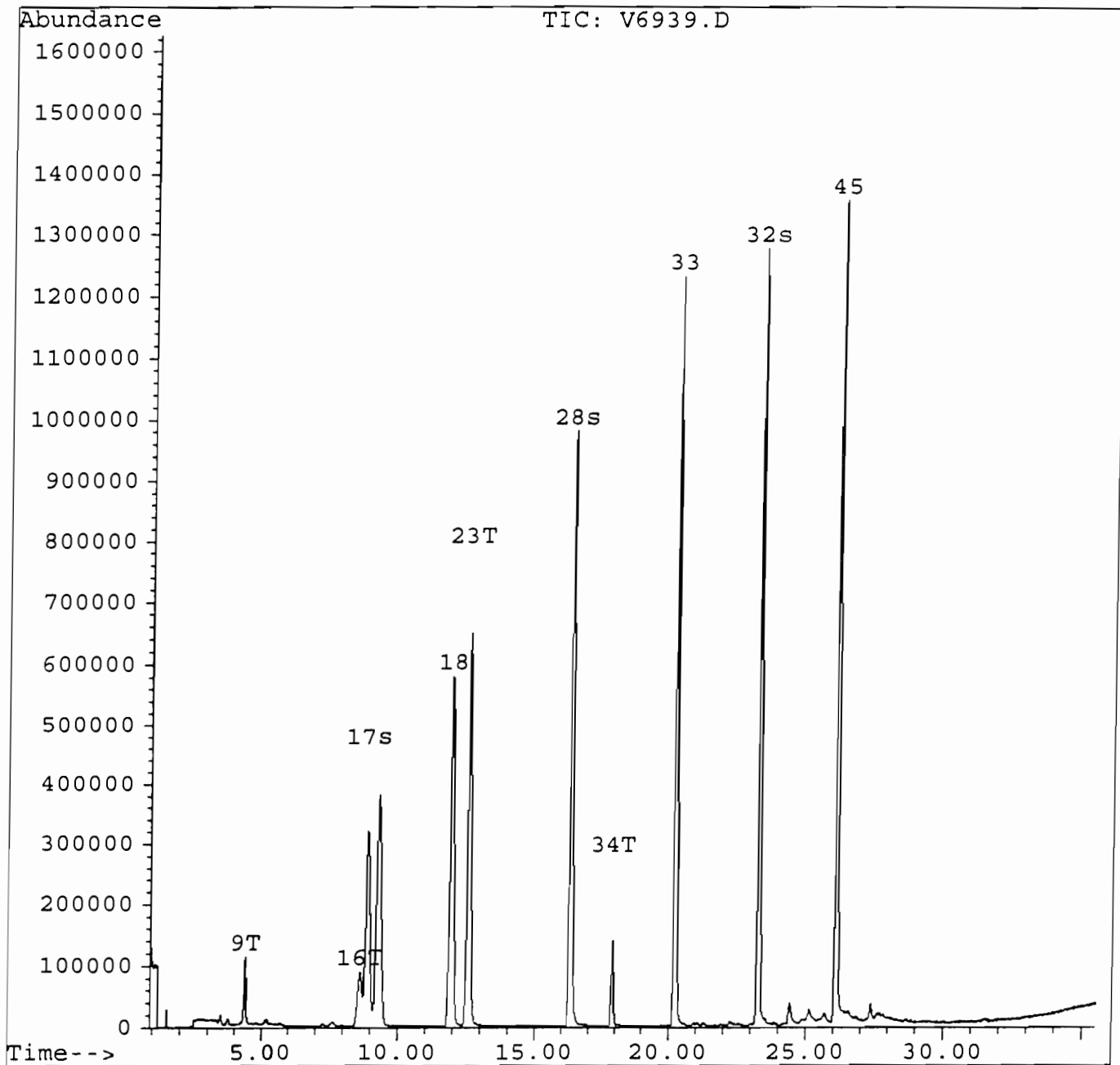
CAS Number	Compound Name	RT	Est. Conc.	Q
1.				
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
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16.				
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21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

Quantitation Report

Data File : D:\HPCHEM\1\DATA\V6939.D
Acq Time : 14 Oct 97 4:09 pm
Sample : 5252DEC-28800
Misc : 5ML 1:10
Quant Time: Oct 23 20:53 1997

Operator:
Inst : 5971 - I
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\8260RUNW.M
Title : 524.2 Purgable Organics
Last Update : Thu Sep 25 17:02:16 1997
Response via : Multiple Level Calibration



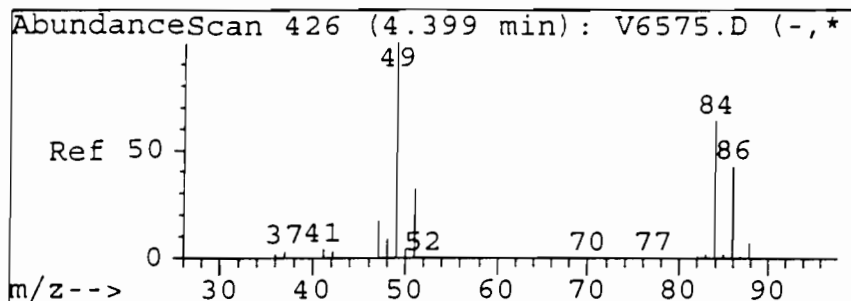
Quantitation Report

Data File : D:\HPCHEM\1\DATA\V6939.D
 Acq Time : 14 Oct 97 4:09 pm
 Sample : 5252DEC-28800
 Misc : 5ML 1:10
 Quant Time: Oct 23 20:53 1997

Operator:
 Inst : 5971 - I
 Multiplr: 1.00

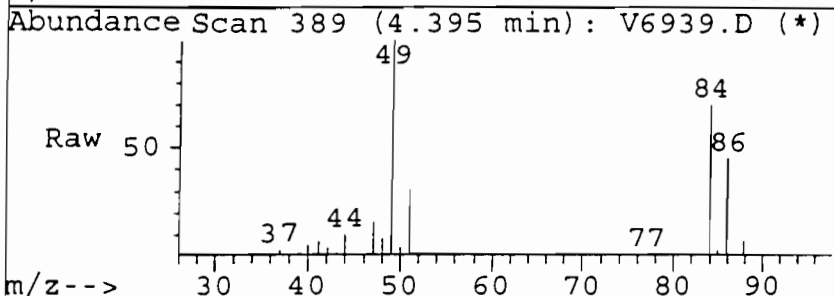
Method : C:\HPCHEM\1\METHODS\8260RUNW.M
 Title : 524.2 Purgable Organics
 Last Update : Thu Sep 25 17:02:16 1997
 Response via : Multiple Level Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Pentafluorobenzene	9.32	168	1521853	50.00	ug/L	0.03
18) 1,4-Difluorobenzene	11.95	114	2295006	50.00	ug/L	0.02
33) Chlorobenzene-d5	20.23	117	2414750	50.00	ug/L	0.22
45) 1,4-dichlorobenzene-d4	26.09	152	1258480	50.00	ug/L	0.07
System Monitoring Compounds						%Recovery
17) Dibromofluoromethane	8.91	113	1115584	51.94	ug/L	103.89%
28) Toluene-d8	16.33	98	2550458	50.35	ug/L	100.70%
32) 4-Bromofluorobenzene	23.27	95	1731276	52.85	ug/L	105.70%
Target Compounds						Qvalue
~~9) methylene chloride~~	4.39	84	115657	6.09	ug/L	92
16) 1,1,1-trichloroethane	8.64	97	342823	13.19	ug/L	99
23) trichloroethene	12.59	130	1032772	56.56	ug/L	97
34) tetrachloroethene	17.91	166	153142	6.97	ug/L	98

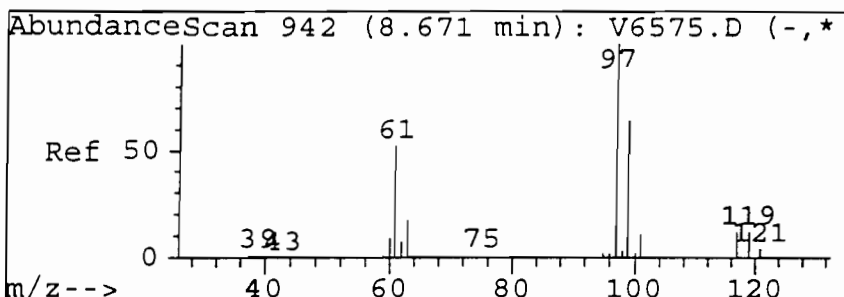
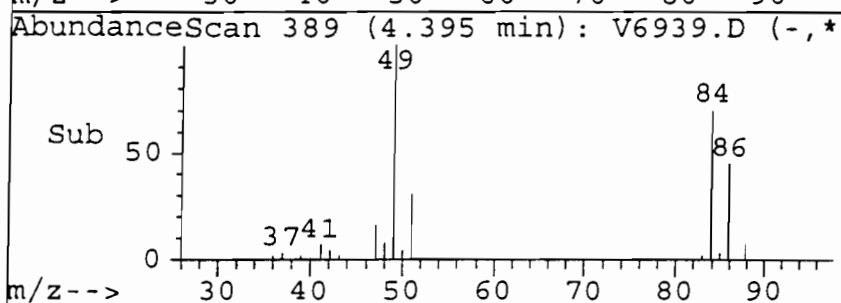
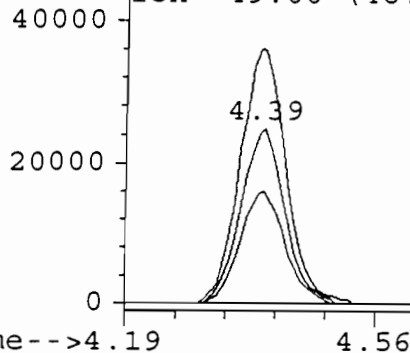


#9
methylene chloride
Concen: 6.09 ug/L
RT: 4.39 min Scan# 389
Delta R.T. 0.01 min
Lab File: V6939.D
Acq: 14 Oct 97 4:09 pm

Tgt	Ion:84	Resp:	115657
Ion	Ratio	Lower	Upper
84	100		
86	64.6	47.0	87.2
49	143.6	110.4	205.0
0	0.0	0.0	0.0

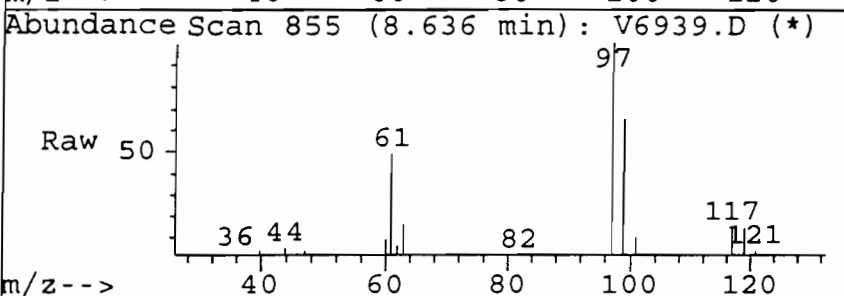


Abundance	Ion	84.00 (83.
	Ion	86.00 (85.
	Ion	49.00 (48.

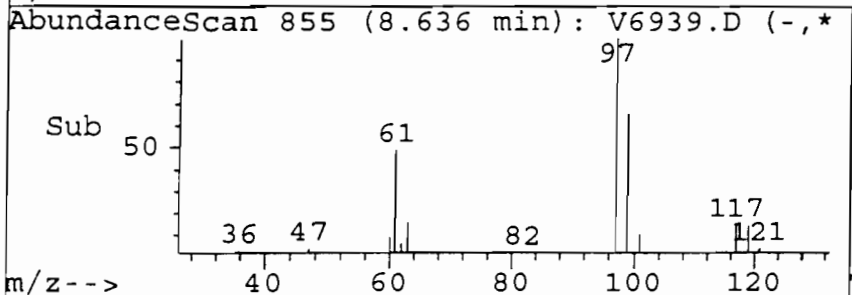
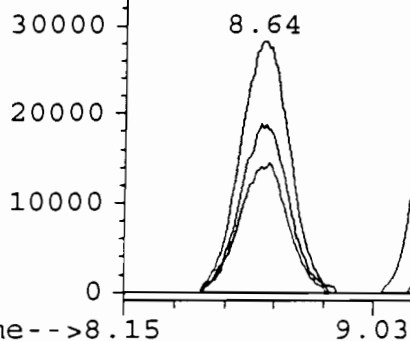


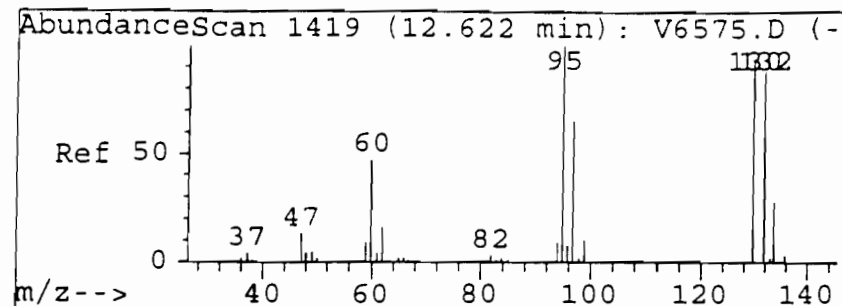
#16
1,1,1-trichloroethane
Concen: 13.19 ug/L
RT: 8.64 min Scan# 855
Delta R.T. 0.04 min
Lab File: V6939.D
Acq: 14 Oct 97 4:09 pm

Tgt	Ion:97	Resp:	342823
Ion	Ratio	Lower	Upper
97	100		
99	64.8	45.7	84.9
61	48.8	34.9	64.7
0	0.0	0.0	0.0



Abundance	Ion	97.00 (96.
	Ion	99.00 (98.
	Ion	61.00 (60.

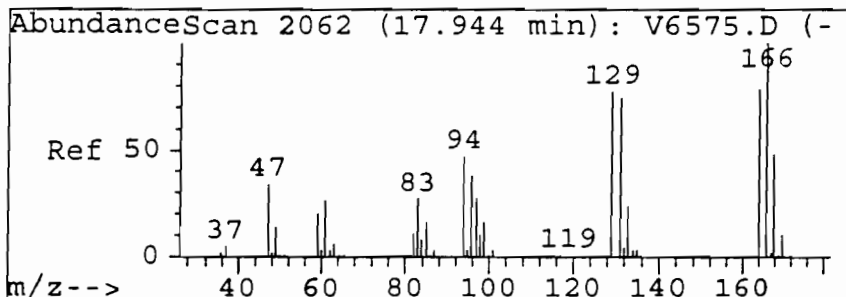
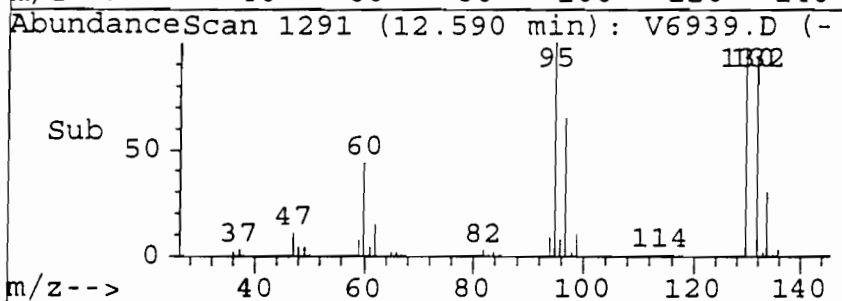
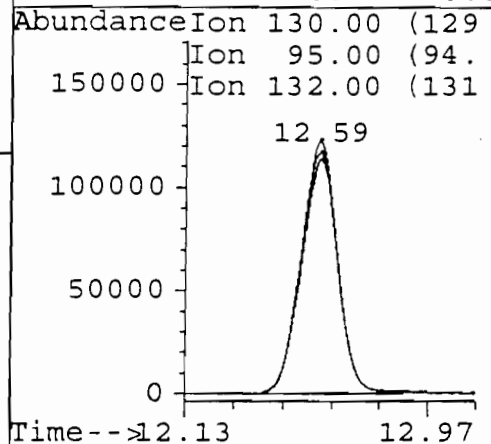
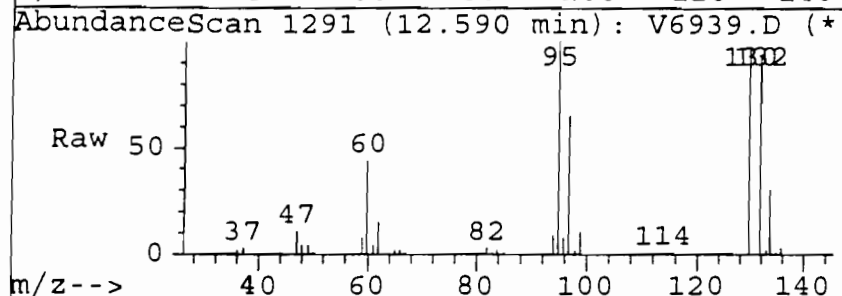




#23
trichloroethene
Concen: 56.56 ug/L
RT: 12.59 min Scan# 1291
Delta R.T. 0.06 min
Lab File: V6939.D
Acq: 14 Oct 97 4:09 pm

Tgt Ion:130 Resp: 1032772

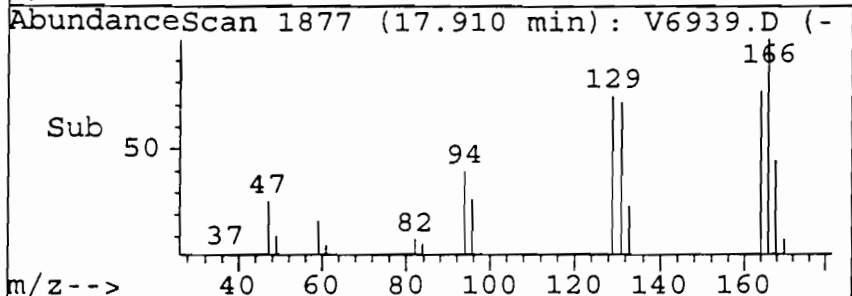
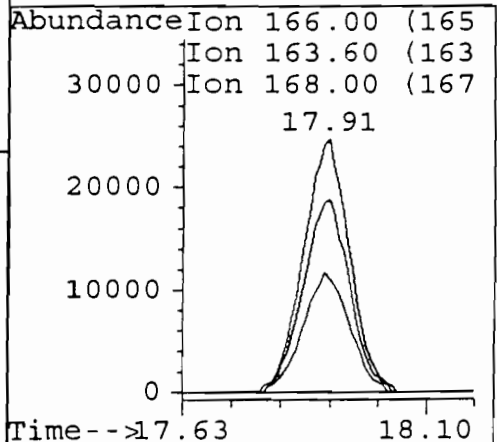
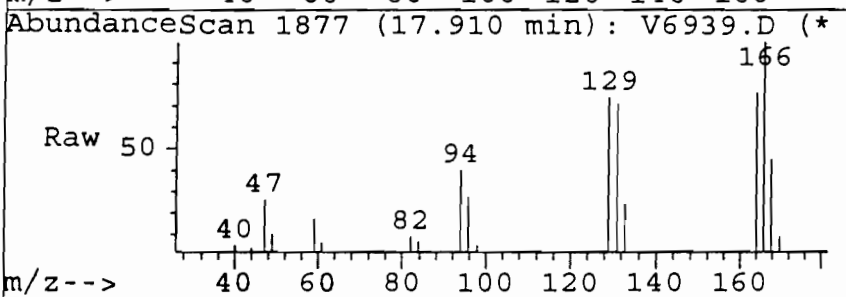
Ion	Ratio	Lower	Upper
130	100		
95	103.6	76.2	141.4
132	96.3	67.2	124.8
0	0.0	0.0	0.0



#34
tetrachloroethene
Concen: 6.97 ug/L
RT: 17.91 min Scan# 1877
Delta R.T. 0.21 min
Lab File: V6939.D
Acq: 14 Oct 97 4:09 pm

Tgt Ion:166 Resp: 153142

Ion	Ratio	Lower	Upper
166	100		
164	75.7	53.6	99.5
168	45.1	33.4	62.0
0	0.0	0.0	0.0



1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

B94866

Lab Name: CHEMTECH Contract: NEW YORK STATE D.E.C.

Project No.: 5252DEC Site: _____ Location: _____ Group: _____

Matrix: (soil/water) WATER Lab Sample ID: O28801

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: V6924.D

Level: (low/med) _____ Date Received: 9/24/97

% Moisture: not dec. 100 Date Analyzed: 10/13/97

GC Column: RTX624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CAS No.	Compound	Concentration Units:	
		(ug/L or ug/Kg)	ug/L
			Q
75-71-8	Dichlorodifluoromethane	5	U
74-87-3	Chloromethane	5	U
75-01-4	Vinyl Chloride	5	U
74-83-9	Bromomethane	5	U
75-00-3	Chloroethane	5	U
75-69-4	Trichlorofluoromethane	11	B
75-35-4	1,1-Dichloroethene	4.9	J
75-09-2	Methylene Chloride	5	U
156-60-5	trans-1,2-Dichloroethene	5	U
75-34-4	1,1-Dichloroethane	4.6	J
590-20-7	2,2-Dichloropropane	5	U
156-60-5	cis-1,2-dichloroethene	5	U
74-97-5	Bromochloromethane	5	U
67-66-3	Chloroform	5	U
71-55-6	1,1,1-Trichloroethane	170	
56-23-5	Carbon Tetrachloride	5	U
563-58-6	1,1-Dichloropropene	5	U
71-43-2	Benzene	5	U
107-06-2	1,2-Dichloroethane	5	U
79-01-6	Trichloroethene	650	E
78-87-5	1,2-Dichloropropane	5	U
74-95-3	Dibromomethane	5	U
75-27-4	Bromodichloromethane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
108-88-3	Toluene	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
79-00-5	1,1,2-Trichloroethane	5	U
127-18-4	Tetrachloroethene	48	
142-28-9	1,3-Dichloropropane	5	U
124-48-1	Dibromochloromethane	5	U
106-93-4	1,2-Dibromoethane	5	U
108-90-7	Chlorobenzene	5	U
630-20-6	1,1,1,2-Tetrachloroethane	5	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

B94866

Lab Name: CHEMTECH Contract: NEW YORK STATE D.E.C.

Project No.: 5252DEC Site: _____ Location: _____ Group: _____

Matrix: (soil/water) WATER Lab Sample ID: O28801

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: V6924.D

Level: (low/med) _____ Date Received: 9/24/97

% Moisture: not dec. 100 Date Analyzed: 10/13/97

GC Column: RTX624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CAS No.	Compound	Concentration Units:	
		(ug/L or ug/Kg)	ug/L
			Q
100-41-4	Ethylbenzene	5	U
1330-20-7	m&p-xylenes	5	U
95-47-6	o-xylene	5	U
100-42-5	Styrene	5	U
75-25-2	Bromoform	5	U
98-82-8	isopropylbenzene	5	U
108-86-1	Bromobenzene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
96-18-4	1,2,3-Trichloropropane	5	U
103-65-1	n-Propylbenzene	5	U
95-49-8	2-Chlorotoluene	5	U
106-43-4	4-Chlorotoluene	5	U
108-67-8	1,3,5-Trimethylbenzene	5	U
98-06-6	tert-Butylbenzene	5	U
95-63-6	1,2,4-Trimethylbenzene	5	U
135-98-8	sec-Butylbenzene	5	U
541-73-1	1,3-Dichlorobenzene	5	U
99-87-6	4-Isopropyltoluene	5	U
106-46-7	1,4-Dichlorobenzene	5	U
95-50-1	1,2-Dichlorobenzene	5	U
104-51-8	n-Butylbenzene	5	U
96-12-8	1,2-Dibromo-3-chloropropane	5	U
120-82-1	1,2,4-Trichlorobenzene	5	U
87-68-3	Hexachlorobutadiene	5	U
91-20-3	Naphthalene	5	U
87-61-6	1,2,3-Trichlorobenzene	5	U

IE
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.

B94866

Lab Name: CHEMTECH Contract: NEW YORK STATE D.E.C.
Project No. 5252 Site: _____ Location: _____ Group: _____
Matrix: (soil/water) WATER Lab Sample ID: O28801
Sample wt/vol: 5.0 (g/mL) ML Lab File ID: V6924.D
Level: (low/med) _____ Date Received: 9/24/97
% Moisture: not dec. 100 Date Analyzed: 10/13/97
GC Column: RTX624 ID: 0.53 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Concentration Units:
Number TICs found: 0 (ug/L or ug/Kg) ug/L

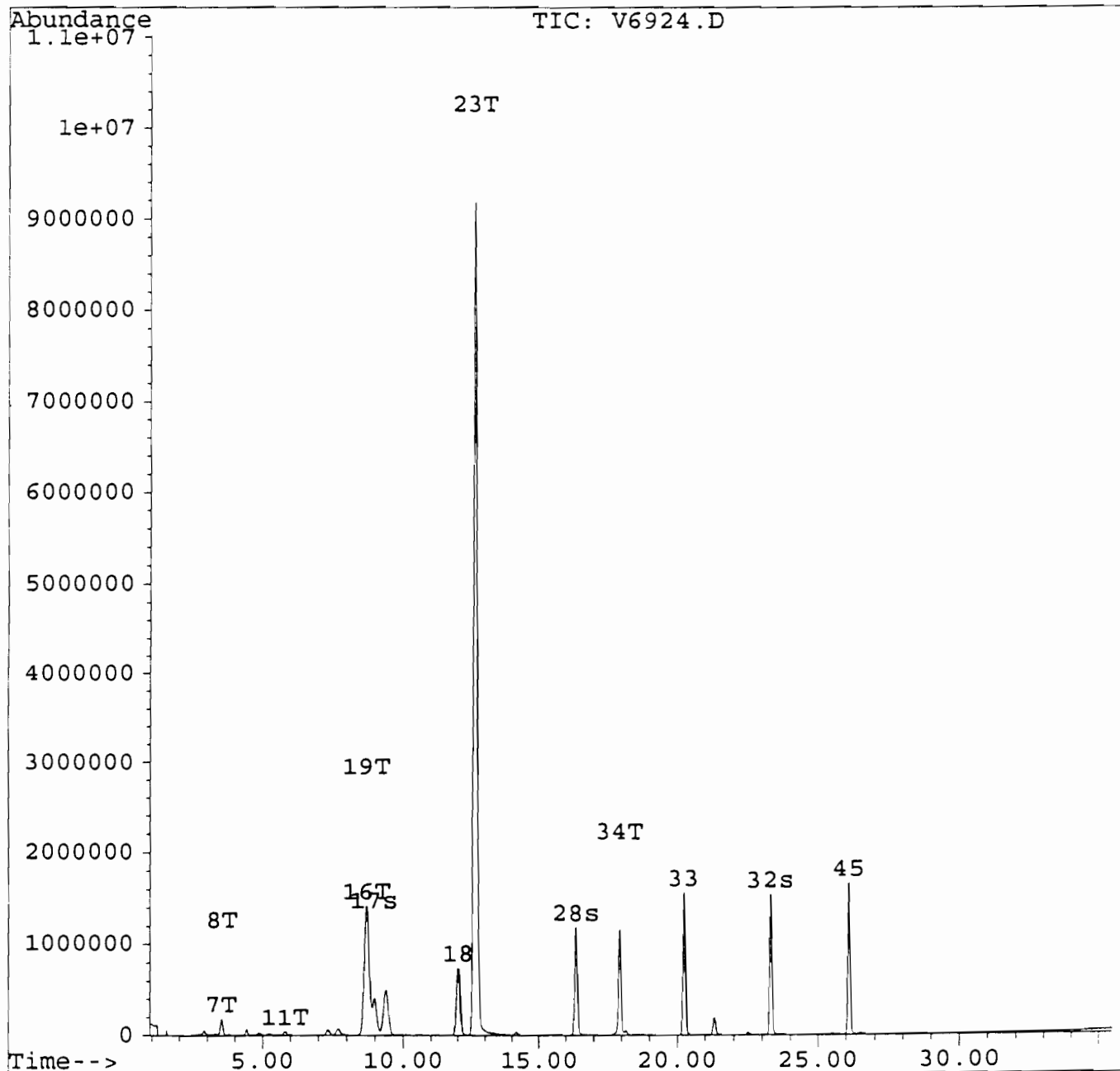
CAS Number	Compound Name	RT	Est. Conc.	Q
1.				
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

Quantitation Report

Data File : E:\HPCHEM\1\DATA\V6924.D
Acq Time : 13 Oct 97 6:59 pm
Sample : 5252DEC-28801
Misc : 5ML
Quant Time: Oct 24 12:57 1997

Operator:
Inst : 5971 - Ir
Multiplr: 1.00

Method : D:\HPCHEM\1\METHODS\8260RUNW.M
Title : 524.2 Purgable Organics
Last Update : Thu Sep 25 17:02:16 1997
Response via : Multiple Level Calibration



Quantitation Report

Data File : E:\HPCHEM\1\DATA\V6924.D
 Acq Time : 13 Oct 97 6:59 pm
 Sample : 5252DEC-28801
 Misc : 5ML
 Quant Time: Oct 24 12:57 1997

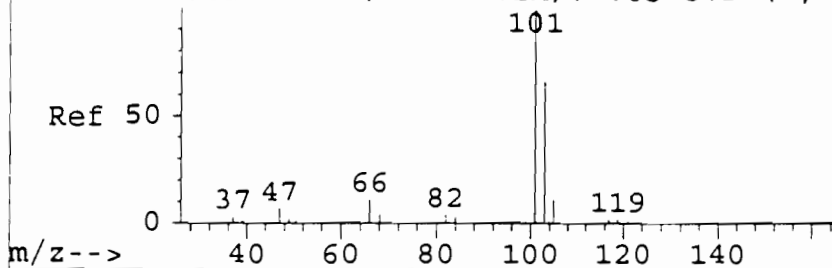
Operator:
 Inst : 5971 - Ir
 Multiplr: 1.00

Method : D:\HPCHEM\1\METHODS\8260RUNW.M
 Title : 524.2 Purgable Organics
 Last Update : Thu Sep 25 17:02:16 1997
 Response via : Multiple Level Calibration

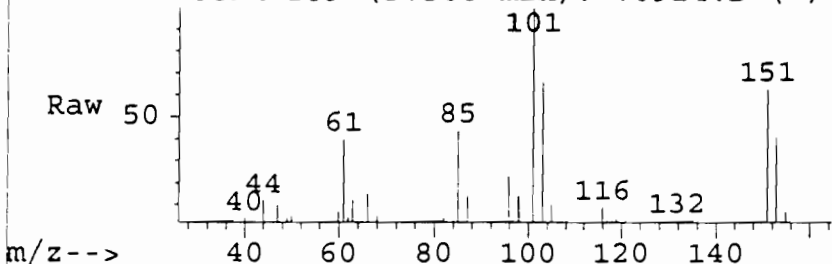
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	9.38	168	1920947	50.00	ug/L	0.10
18) 1,4-Difluorobenzene	12.02	114	2904121	50.00	ug/L	0.09
33) Chlorobenzene-d5	20.26	117	2953462	50.00	ug/L	0.25
45) 1,4-dichlorobenzene-d4	26.11	152	1548842	50.00	ug/L	0.09
System Monitoring Compounds						%Recovery
17) Dibromofluoromethane	8.98	113	1334107	49.21	ug/L	98.42%
28) Toluene-d8	16.37	98	3030505	47.28	ug/L	94.56%
32) 4-Bromofluorobenzene	23.29	95	2028229	48.93	ug/L	97.86%
Target Compounds						Qvalue
7) trichlorofluoromethane	3.51	101	232134	11.26	ug/L m	99
8) 1,1-dichloroethene	3.54	61	106078	4.91	ug/L	99
11) 1,1-dichloroethane	5.80	63	171572	4.55	ug/L	99
16) 1,1,1-trichloroethane	8.70	97	5729813	174.68	ug/L	100
~~19) carbon tetrachloride~~	~~8.71~~	~~117~~	~~790766~~	45.20	ug/L	99
23) trichloroethene	12.65	130	15052554	651.48	ug/L	92
34) tetrachloroethene	17.94	166	1296164	48.25	ug/L	97

Handwritten signature and date:
 10/24/97

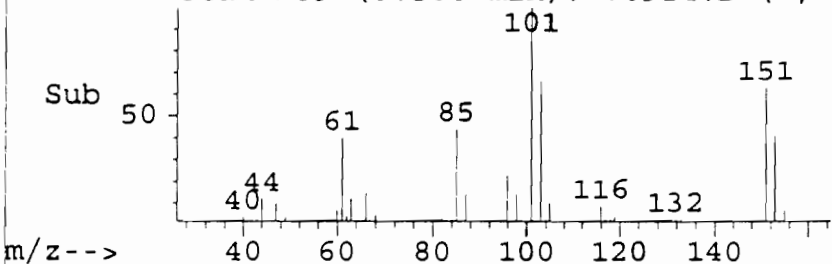
AbundanceScan 229 (2.769 min): V6575.D (-, *



AbundanceScan 289 (3.508 min): V6924.D (*)



AbundanceScan 289 (3.508 min): V6924.D (-, *



#7

trichlorofluoromethane

Concen: 11.26 ug/L m

RT: 3.51 min Scan# 289

Delta R.T. 0.76 min

Lab File: V6924.D

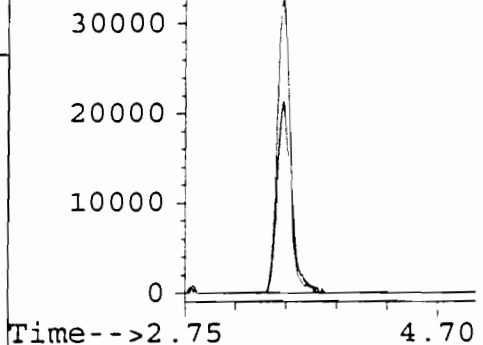
Acq: 13 Oct 97 6:59 pm

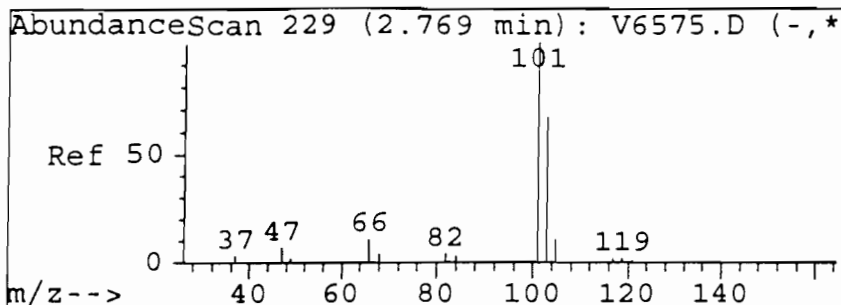
Tgt Ion:	101	Resp:	232134
Ion Ratio	Lower	Upper	
101	100		
103	65.6	45.6	84.6
0	0.0	0.0	0.0
0	0.0	0.0	0.0

AbundanceIon 101.00 (100

Ion 103.00 (102

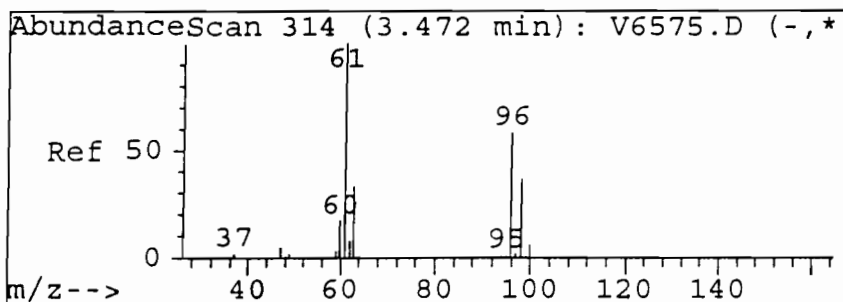
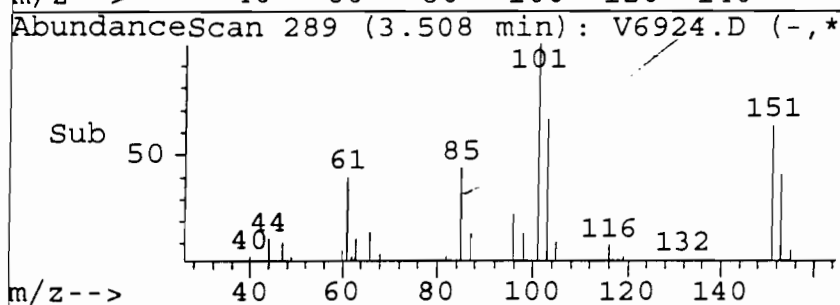
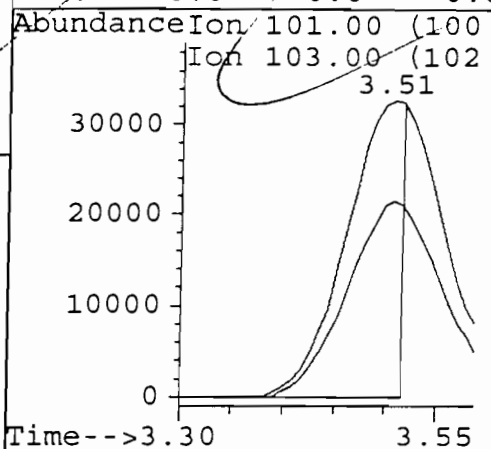
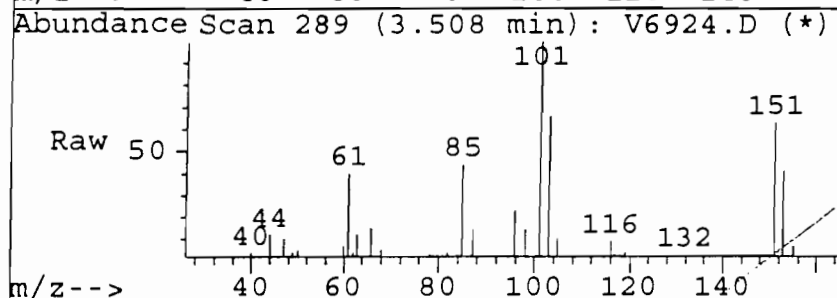
3.51





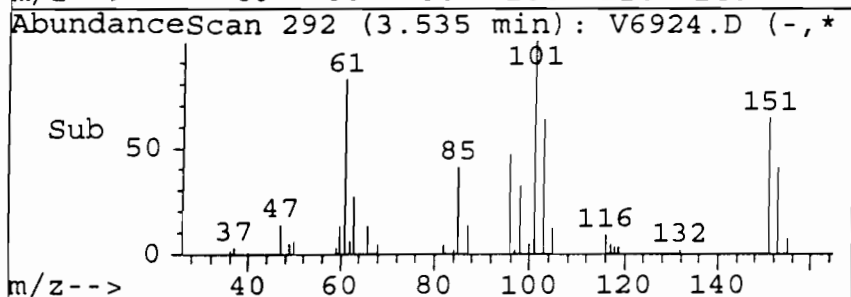
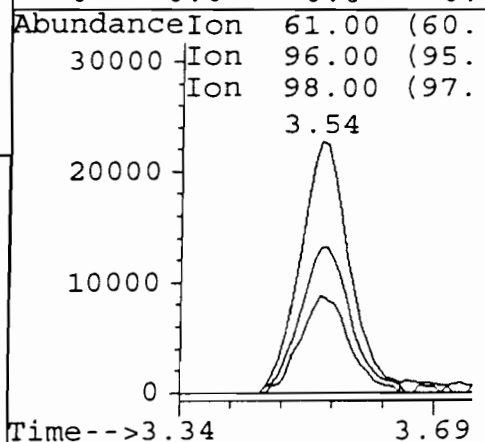
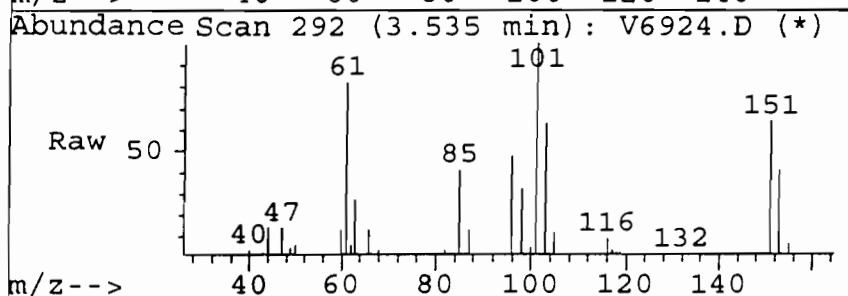
#7
trichlorofluoromethane
Concen: 6.36 ug/L
RT: 3.51 min Scan# 289
Delta R.T. 0.76 min
Lab File: V6924.D
Acq: 13 Oct 97 6:59 pm

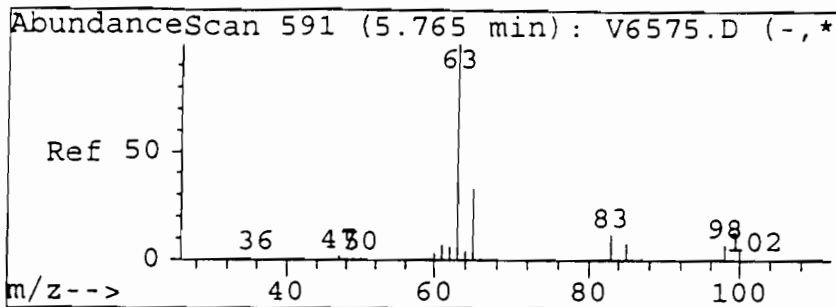
Tgt Ion:101	Resp:	131119
Ion Ratio	Lower	Upper
101 100		
103 65.6	45.6	84.6
0 0.0	0.0	0.0
0 0.0	0.0	0.0



#8
1,1-dichloroethene
Concen: 4.91 ug/L
RT: 3.54 min Scan# 292
Delta R.T. 0.06 min
Lab File: V6924.D
Acq: 13 Oct 97 6:59 pm

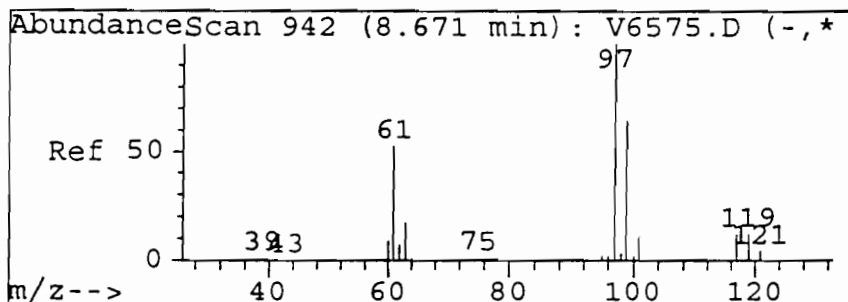
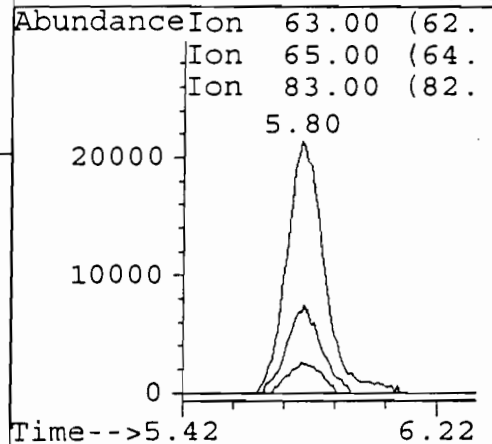
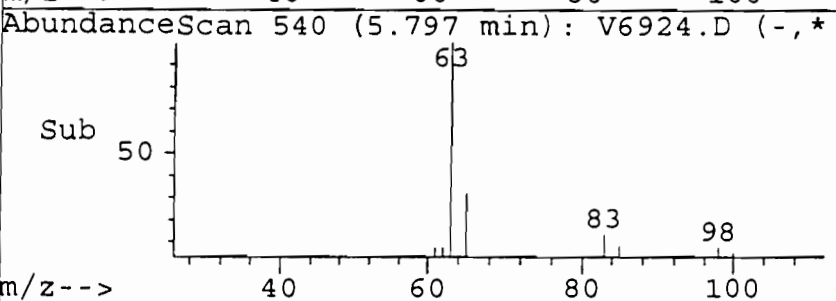
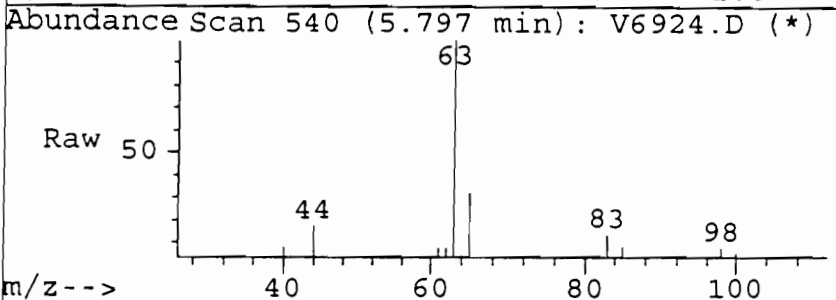
Tgt	Ion:61	Resp:	106078
Ion	Ratio	Lower	Upper
61	100		
96	57.8	41.2	76.6
98	38.7	27.4	50.8
0	0.0	0.0	0.0





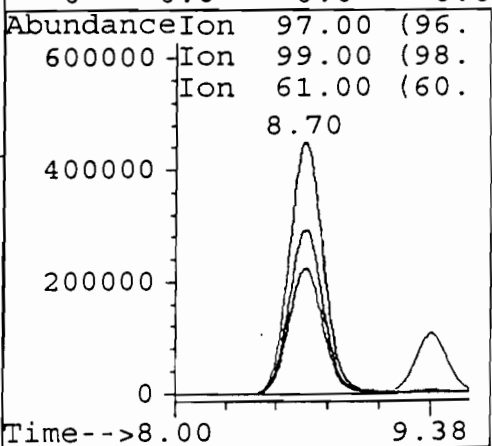
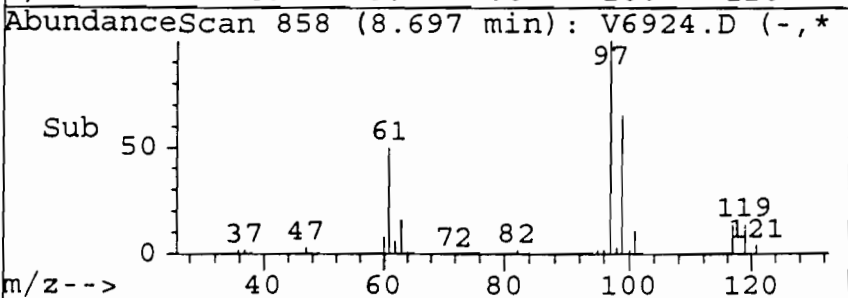
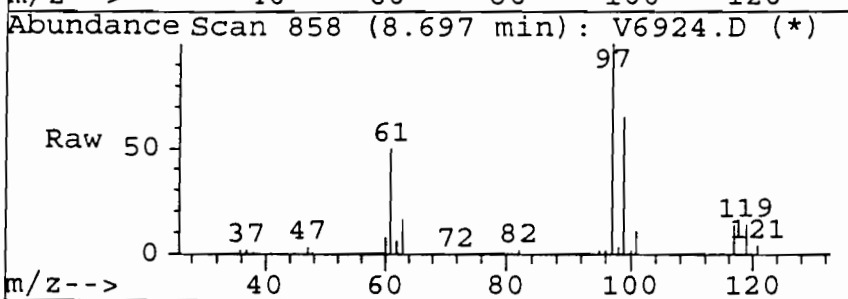
#11
1,1-dichloroethane
Concen: 4.55 ug/L
RT: 5.80 min Scan# 540
Delta R.T. 0.06 min
Lab File: V6924.D
Acq: 13 Oct 97 6:59 pm

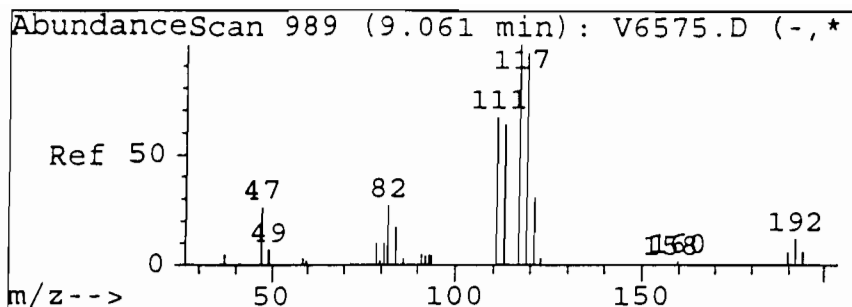
Tgt Ion:	63	Resp:	171572
Ion	Ratio	Lower	Upper
63	100		
65	32.1	22.6	42.0
83	12.6	8.5	15.9
0	0.0	0.0	0.0



#16
1,1,1-trichloroethane
Concen: 174.68 ug/L
RT: 8.70 min Scan# 858
Delta R.T. 0.10 min
Lab File: V6924.D
Acq: 13 Oct 97 6:59 pm

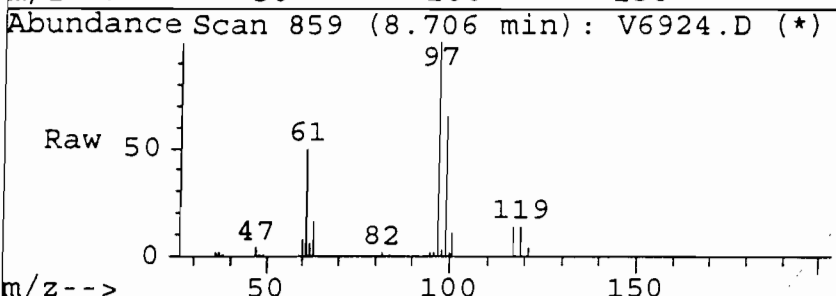
Tgt Ion:	97	Resp:	5729813
Ion	Ratio	Lower	Upper
97	100		
99	65.0	45.7	84.9
61	49.7	34.9	64.7
0	0.0	0.0	0.0



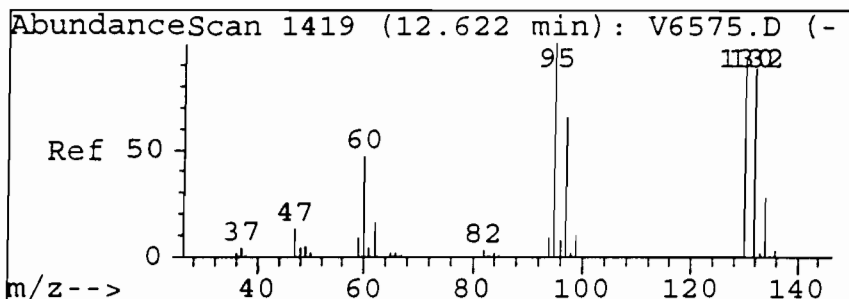
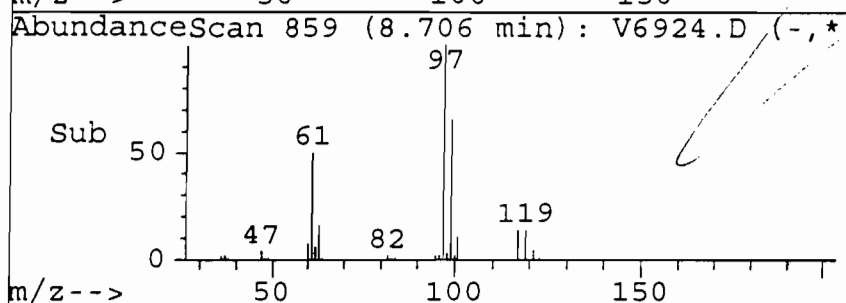
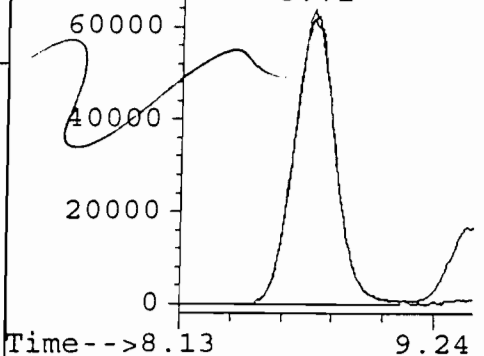


#19
carbon tetrachloride
Concen: 45.20 ug/L
RT: 8.71 min Scan# 859
Delta R.T. -0.31 min
Lab File: V6924.D
Acq: 13 Oct 97 6:59 pm

Tgt Ion:117 Resp: 790766
Ion Ratio Lower Upper
117 100
119 96.5 66.6 123.8
0 0.0 0.0 0.0
0 0.0 0.0 0.0

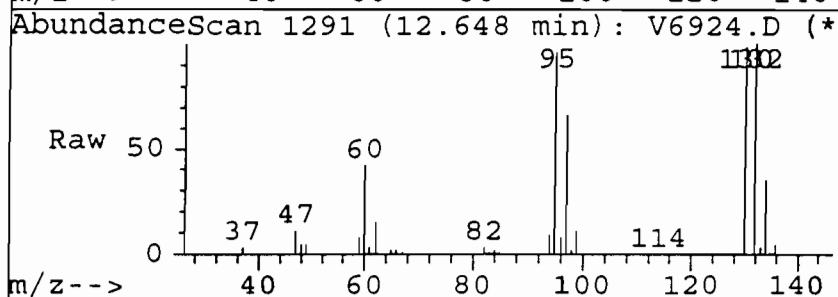


AbundanceIon 117.00 (116
Ion 119.00 (118
8.71

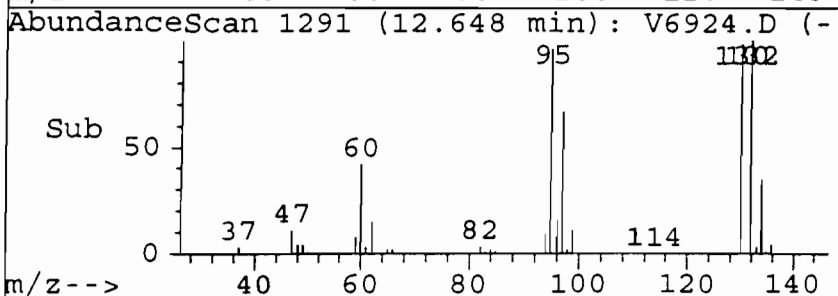
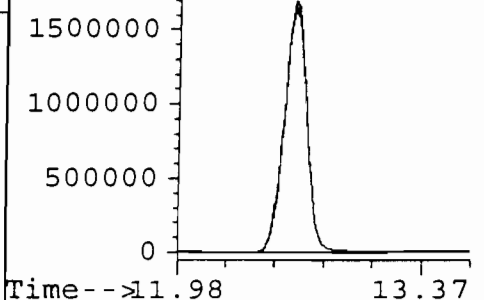


#23
trichloroethene
Concen: 651.48 ug/L
RT: 12.65 min Scan# 1291
Delta R.T. 0.12 min
Lab File: V6924.D
Acq: 13 Oct 97 6:59 pm

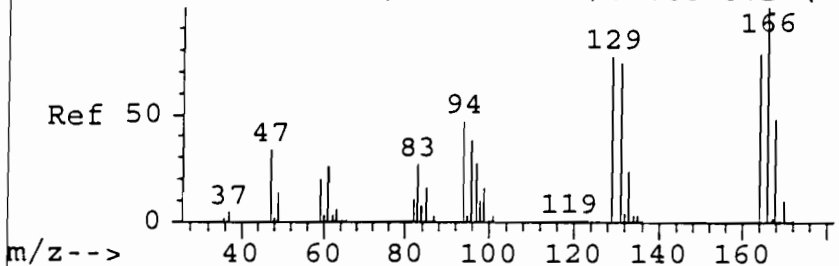
Tgt Ion:130 Resp:15052554
Ion Ratio Lower Upper
130 100
95 97.9 76.2 141.4
132 101.9 67.2 124.8
0 0.0 0.0 0.0



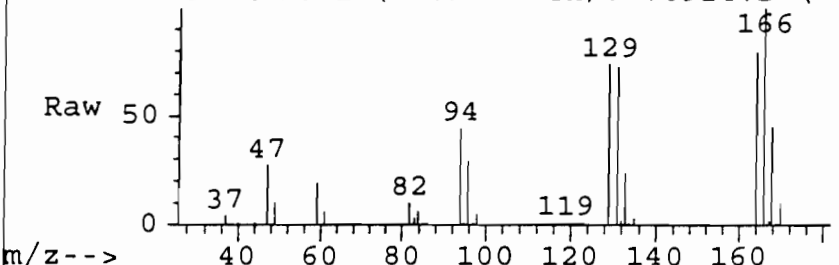
AbundanceIon 130.00 (129
Ion 95.00 (94.
Ion 132.00 (131
12.65



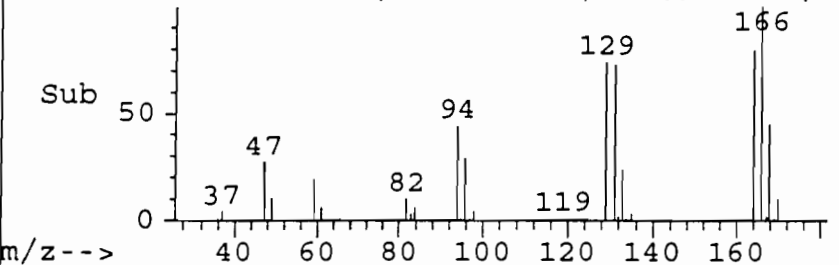
AbundanceScan 2062 (17.944 min): V6575.D (-



AbundanceScan 1871 (17.942 min): V6924.D (*)



AbundanceScan 1871 (17.942 min): V6924.D (-



#34

tetrachloroethene

Concen: 48.25 ug/L

RT: 17.94 min Scan# 1871

Delta R.T. 0.24 min

Lab File: V6924.D

Acq: 13 Oct 97 6:59 pm

Tgt Ion:166 Resp: 1296164

Ion Ratio Lower Upper

166 100

164 78.6 53.6 99.5

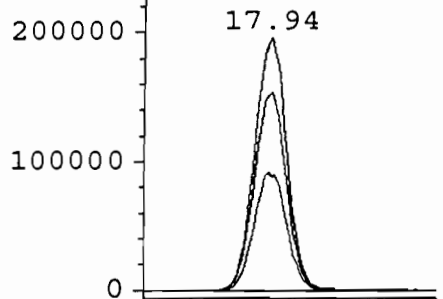
168 44.9 33.4 62.0

0 0.0 0.0 0.0

AbundanceIon 166.00 (165

Ion 163.60 (163

Ion 168.00 (167



Time-->17.56 18.29

Library Search Compound Report

Data File : D:\HPCHEM\1\DATA\V6924.D
Acq Time : 13 Oct 97 6:59 pm
Sample : 5252DEC-28801
Misc : 5ML

Operator:
Inst : 5971 - Ir
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\8260RUNW.M
Title : 524.2 Purgable Organics
Library : NBS75K.L

No Library Search Compounds Detected

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

B94866DL

Lab Name: CHEMTECH Contract: NEW YORK STATE D.E.C.

Project No.: 5252DEC Site: _____ Location: _____ Group: _____

Matrix: (soil/water) WATER Lab Sample ID: O28801DL

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: V6940.D

Level: (low/med) _____ Date Received: 9/24/97

% Moisture: not dec. 100 Date Analyzed: 10/14/97

GC Column: RTX624 ID: 0.53 (mm) Dilution Factor: 10.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CAS No.	Compound	Concentration Units:	
		(ug/L or ug/Kg)	ug/L
			Q
75-71-8	Dichlorodifluoromethane	50	UD
74-87-3	Chloromethane	50	UD
75-01-4	Vinyl Chloride	50	UD
74-83-9	Bromomethane	50	UD
75-00-3	Chloroethane	50	UD
75-69-4	Trichlorofluoromethane	50	UD
75-35-4	1,1-Dichloroethene	50	UD
75-09-2	Methylene Chloride	50	UD
156-60-5	trans-1,2-Dichloroethene	50	UD
75-34-4	1,1-Dichloroethane	50	UD
590-20-7	2,2-Dichloropropane	50	UD
156-60-5	cis-1,2-dichloroethene	50	UD
74-97-5	Bromochloromethane	50	UD
67-66-3	Chloroform	50	UD
71-55-6	1,1,1-Trichloroethane	150	D
56-23-5	Carbon Tetrachloride	50	UD
563-58-6	1,1-Dichloropropene	50	UD
71-43-2	Benzene	50	UD
107-06-2	1,2-Dichloroethane	50	UD
79-01-6	Trichloroethene	680	D
78-87-5	1,2-Dichloropropane	50	UD
74-95-3	Dibromomethane	50	UD
75-27-4	Bromodichloromethane	50	UD
10061-01-5	cis-1,3-Dichloropropene	50	UD
108-88-3	Toluene	50	UD
10061-02-6	trans-1,3-Dichloropropene	50	UD
79-00-5	1,1,2-Trichloroethane	50	UD
127-18-4	Tetrachloroethene	58	D
142-28-9	1,3-Dichloropropane	50	UD
124-48-1	Dibromochloromethane	50	UD
106-93-4	1,2-Dibromoethane	50	UD
108-90-7	Chlorobenzene	50	UD
630-20-6	1,1,1,2-Tetrachloroethane	50	UD

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

B94866DL

Lab Name: CHEMTECH

Contract: NEW YORK STATE D.E.C.

Project No.: 5252DEC

Site: _____

Location: _____

Group: _____

Matrix: (soil/water) WATER

Lab Sample ID: O28801DL

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

Lab File ID: V6940.D

Level: (low/med) _____

Date Received: 9/24/97

% Moisture: not dec. 100

Date Analyzed: 10/14/97

GC Column: RTX624 ID: 0.53 (mm)

Dilution Factor: 10.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

Concentration Units:

CAS No.	Compound	(ug/L or ug/Kg)	ug/L	Q
100-41-4	Ethylbenzene	50		UD
1330-20-7	m&p-xylenes	50		UD
95-47-6	o-xylene	50		UD
100-42-5	Styrene	50		UD
75-25-2	Bromoform	50		UD
98-82-8	isopropylbenzene	50		UD
108-86-1	Bromobenzene	50		UD
79-34-5	1,1,2,2-Tetrachloroethane	50		UD
96-18-4	1,2,3-Trichloropropane	50		UD
103-65-1	n-Propylbenzene	50		UD
95-49-8	2-Chlorotoluene	50		UD
106-43-4	4-Chlorotoluene	50		UD
108-67-8	1,3,5-Trimethylbenzene	50		UD
98-06-6	tert-Butylbenzene	50		UD
95-63-6	1,2,4-Trimethylbenzene	50		UD
135-98-8	sec-Butylbenzene	50		UD
541-73-1	1,3-Dichlorobenzene	50		UD
99-87-6	4-Isopropyltoluene	50		UD
106-46-7	1,4-Dichlorobenzene	50		UD
95-50-1	1,2-Dichlorobenzene	50		UD
104-51-8	n-Butylbenzene	50		UD
96-12-8	1,2-Dibromo-3-chloropropane	50		UD
120-82-1	1,2,4-Trichlorobenzene	50		UD
87-68-3	Hexachlorobutadiene	50		UD
91-20-3	Naphthalene	50		UD
87-61-6	1,2,3-Trichlorobenzene	50		UD

IE
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.

B94866DL

Lab Name: CHEMTECH Contract: NEW YORK STATE D.E.C.
Project No. 5252 Site: _____ Location: _____ Group: _____
Matrix: (soil/water) WATER Lab Sample ID: O28801DL
Sample wt/vol: 5.0 (g/mL) ML Lab File ID: V6940.D
Level: (low/med) _____ Date Received: 9/24/97
% Moisture: not dec. 100 Date Analyzed: 10/14/97
GC Column: RTX624 ID: 0.53 (mm) Dilution Factor: 10.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Concentration Units:
Number TICs found: 0 (ug/L or ug/Kg) ug/L

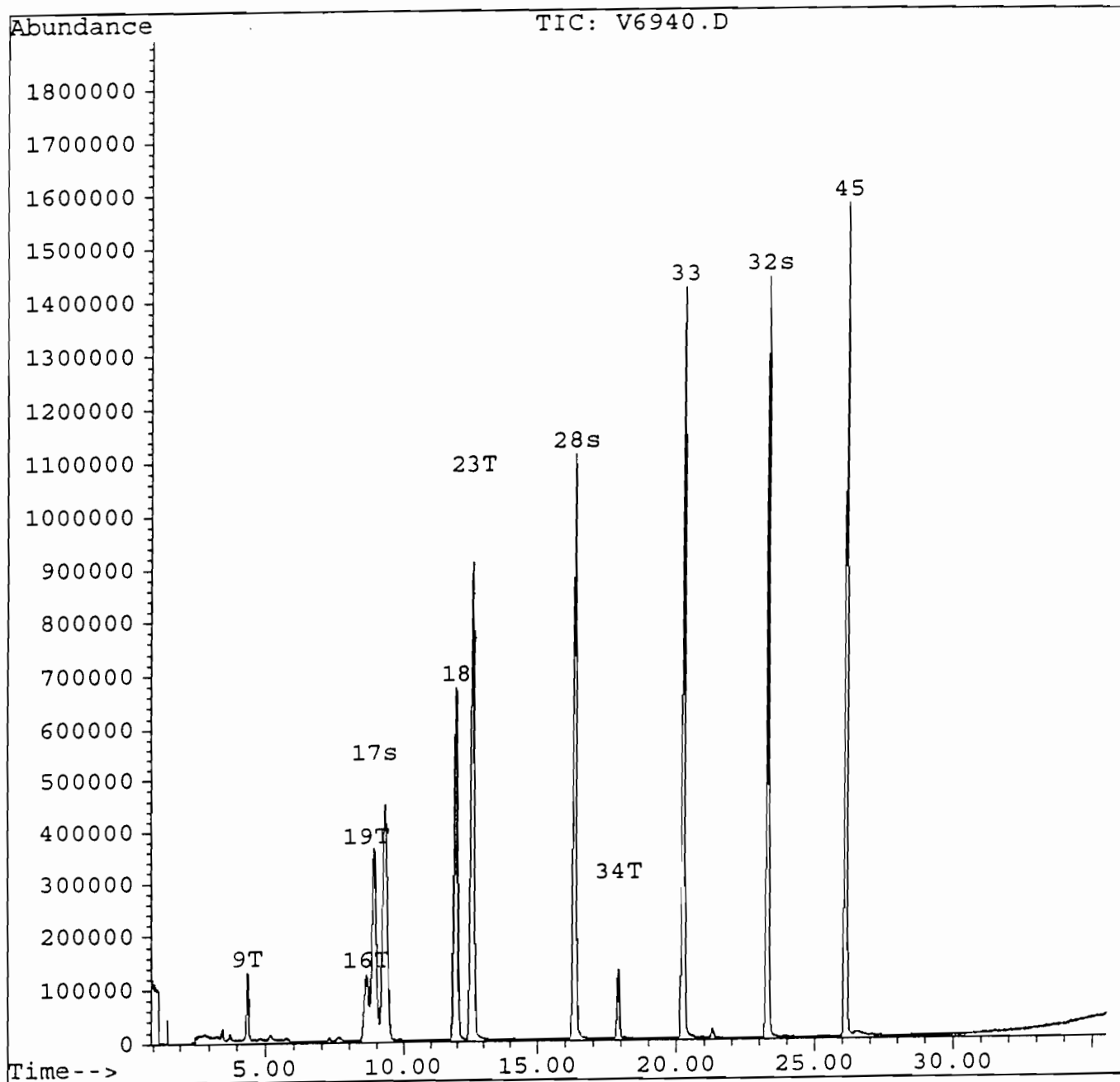
CAS Number	Compound Name	RT	Est. Conc.	Q
1.				
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

Quantitation Report

Data File : D:\HPCHEM\1\DATA\V6940.D
Acq Time : 14 Oct 97 4:51 pm
Sample : 5252DEC-28801
Misc : 5ML 1:10
Quant Time: Oct 23 20:57 1997

Operator:
Inst : 5971 - I
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\8260RUNW.M
Title : 524.2 Purgable Organics
Last Update : Thu Sep 25 17:02:16 1997
Response via : Multiple Level Calibration



000056

Quantitation Report

Data File : D:\HPCHEM\1\DATA\V6940.D
 Acq Time : 14 Oct 97 4:51 pm
 Sample : 5252DEC-28801
 Misc : 5ML 1:10
 Quant Time: Oct 23 20:57 1997

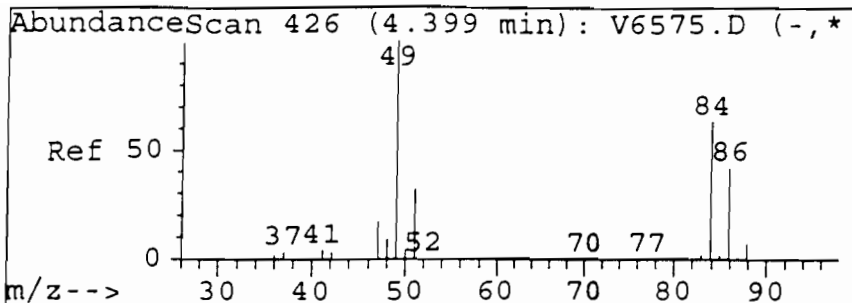
Operator:
 Inst : 5971 - In
 Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\8260RUNW.M
 Title : 524.2 Purgable Organics
 Last Update : Thu Sep 25 17:02:16 1997
 Response via : Multiple Level Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Pentafluorobenzene	9.31	168	1790971	50.00	ug/L	0.02
18) 1,4-Difluorobenzene	11.94	114	2667355	50.00	ug/L	0.01
33) Chlorobenzene-d5	20.23	117	2783065	50.00	ug/L	0.22
45) 1,4-dichlorobenzene-d4	26.09	152	1461642	50.00	ug/L	0.07

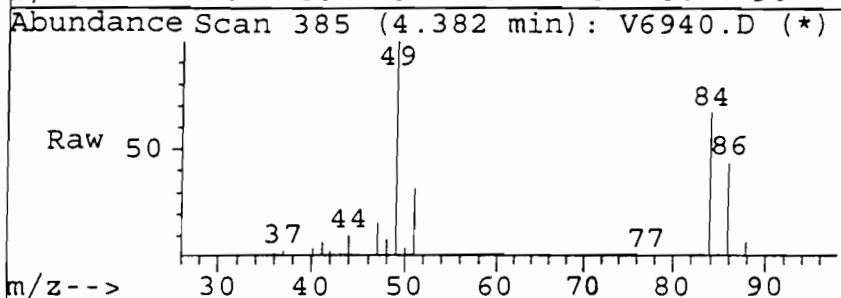
System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	%Recovery
17) Dibromofluoromethane	8.91	113	1276780	50.52	ug/L	101.03%
28) Toluene-d8	16.33	98	2863344	48.64	ug/L	97.27%
32) 4-Bromofluorobenzene	23.27	95	1934548	50.81	ug/L	101.62%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
9) methylene chloride	4.38	84	131041	5.86	ug/L	95
16) 1,1,1-trichloroethane	8.63	97	471933	15.43	ug/L	99
~~19) carbon tetrachloride~~	~~8.62~~	~~117~~	~~65460~~	4.07	ug/L	94
23) trichloroethene	12.59	130	1450028	68.33	ug/L	96
34) tetrachloroethene	17.89	166	146055	5.77	ug/L	99

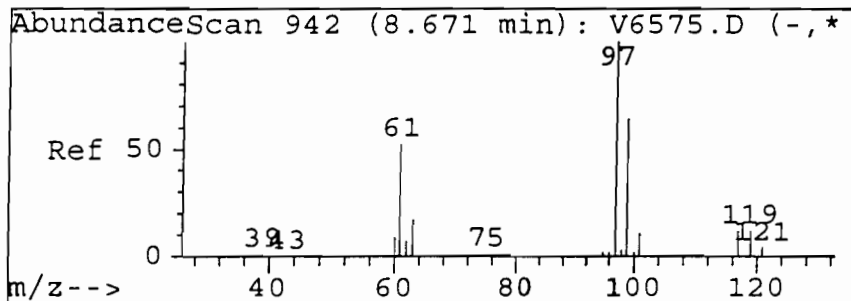
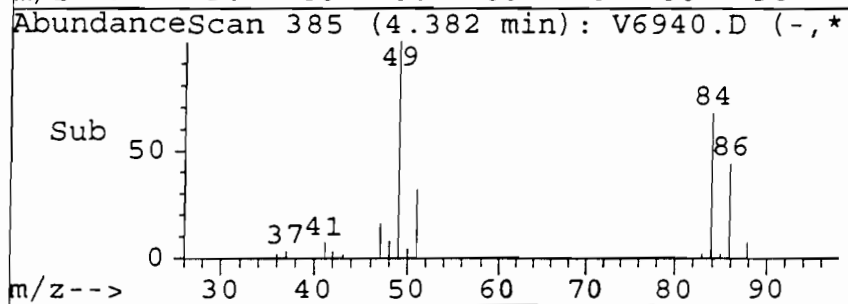
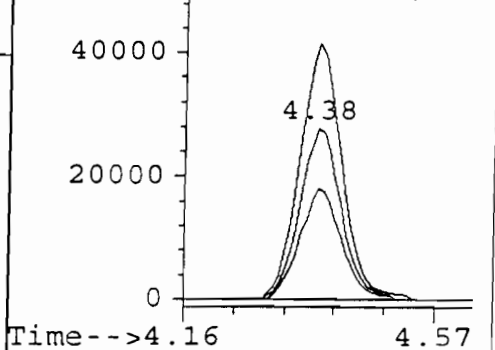


#9
methylene chloride
Concen: 5.86 ug/L
RT: 4.38 min Scan# 385
Delta R.T. -0.00 min
Lab File: V6940.D
Acq: 14 Oct 97 4:51 pm

Tgt	Ion:84	Resp:	131041
Ion	Ratio	Lower	Upper
84	100		
86	65.0	47.0	87.2
49	149.2	110.4	205.0
0	0.0	0.0	0.0

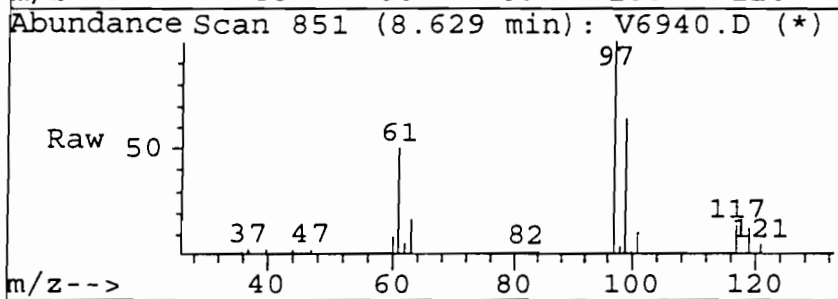


AbundanceIon	84.00	(83.
Ion	86.00	(85.
Ion	49.00	(48.

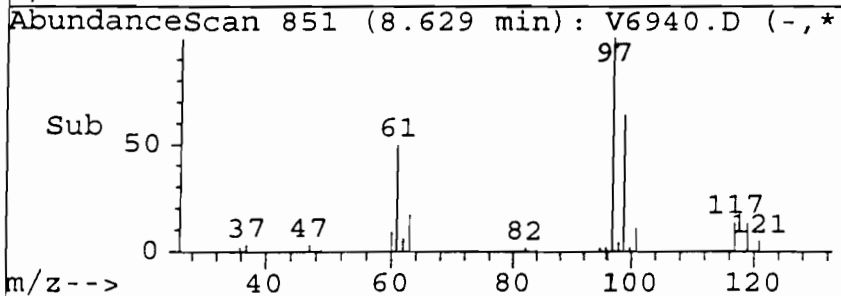
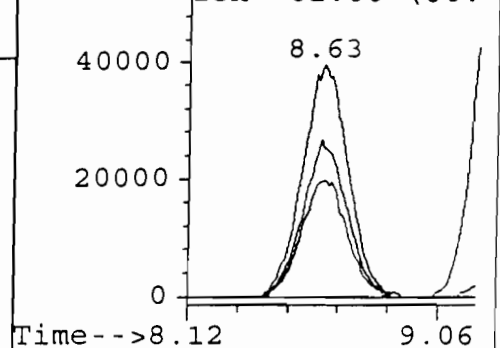


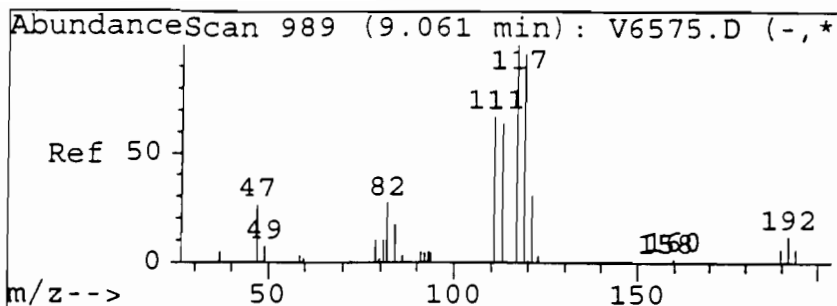
#16
1,1,1-trichloroethane
Concen: 15.43 ug/L
RT: 8.63 min Scan# 851
Delta R.T. 0.03 min
Lab File: V6940.D
Acq: 14 Oct 97 4:51 pm

Tgt	Ion:97	Resp:	471933
Ion	Ratio	Lower	Upper
97	100		
99	64.0	45.7	84.9
61	49.8	34.9	64.7
0	0.0	0.0	0.0



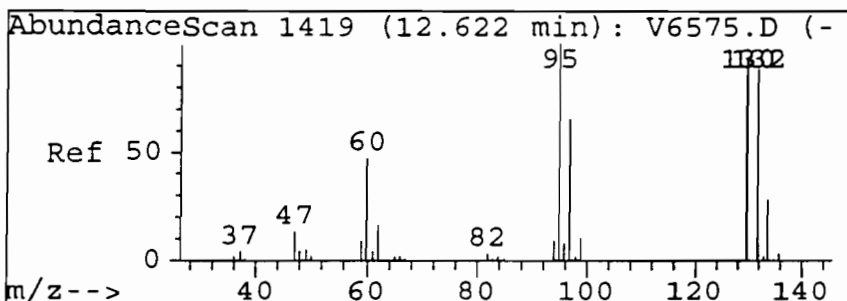
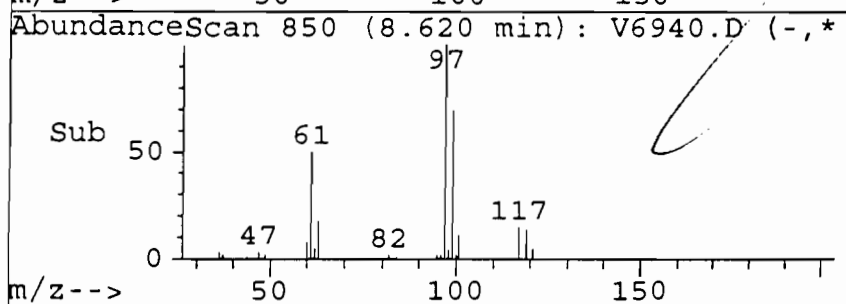
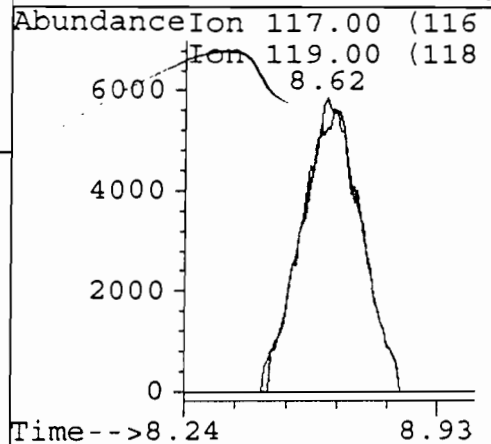
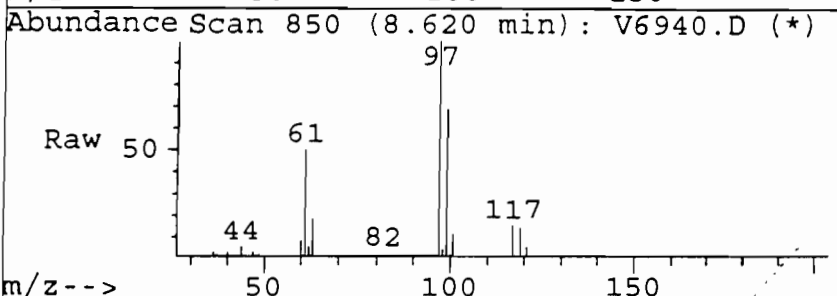
AbundanceIon	97.00	(96.
Ion	99.00	(98.
Ion	61.00	(60.





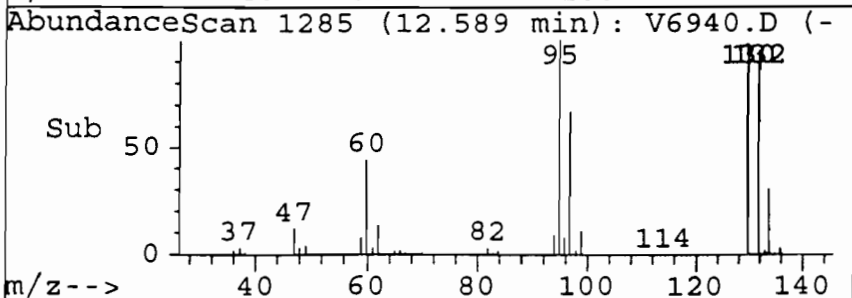
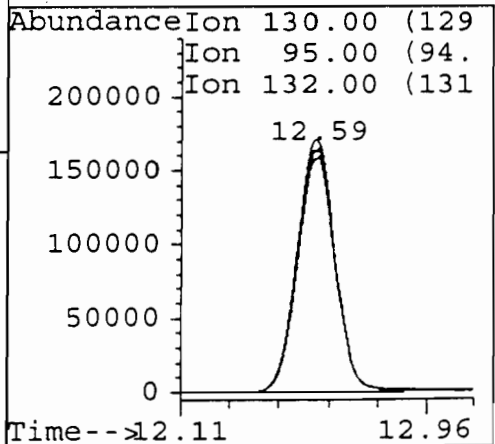
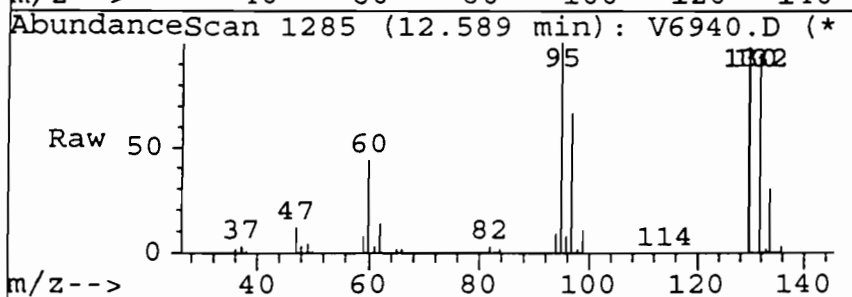
#19
carbon tetrachloride
Concen: 4.07 ug/L
RT: 8.62 min Scan# 850
Delta R.T. -0.40 min
Lab File: V6940.D
Acq: 14 Oct 97 4:51 pm

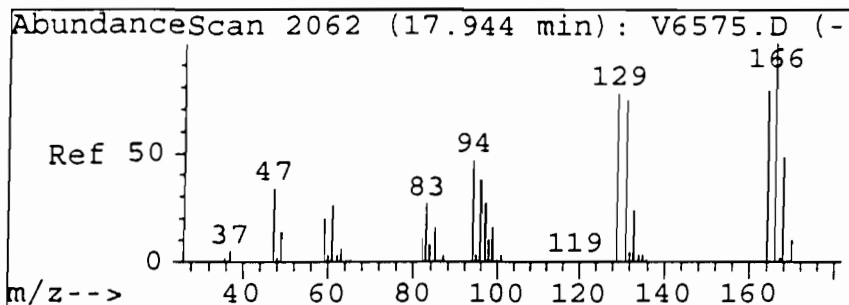
Tgt Ion:117 Resp: 65460
Ion Ratio Lower Upper
117 100
119 89.7 66.6 123.8
0 0.0 0.0 0.0
0 0.0 0.0 0.0



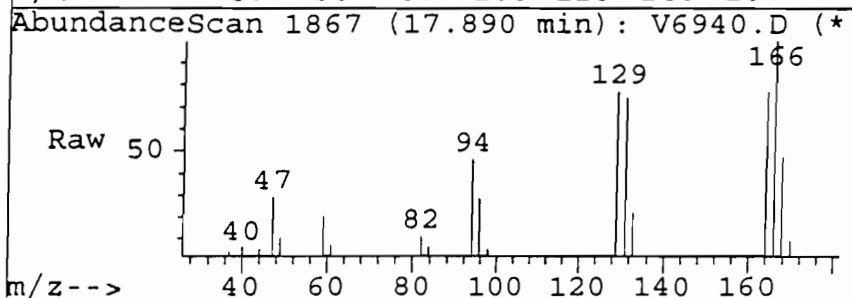
#23
trichloroethene
Concen: 68.33 ug/L
RT: 12.59 min Scan# 1285
Delta R.T. 0.06 min
Lab File: V6940.D
Acq: 14 Oct 97 4:51 pm

Tgt Ion:130 Resp: 1450028
Ion Ratio Lower Upper
130 100
95 102.2 76.2 141.4
132 96.8 67.2 124.8
0 0.0 0.0 0.0

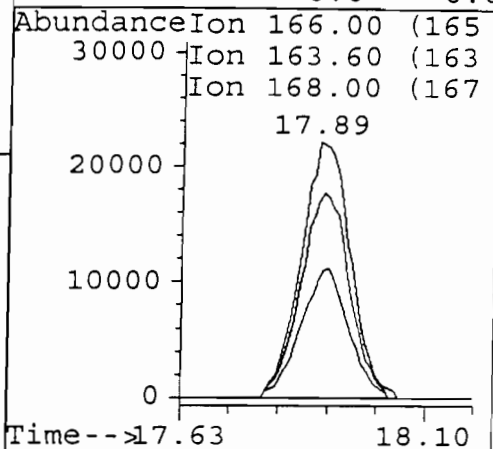
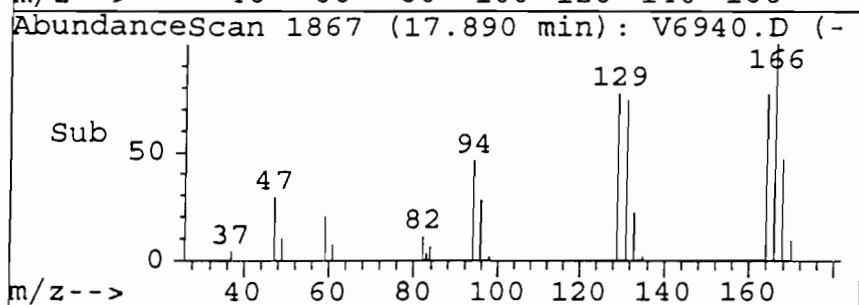




#34
 tetrachloroethene
 Concen: 5.77 ug/L
 RT: 17.89 min Scan# 1867
 Delta R.T. 0.19 min
 Lab File: V6940.D
 Acq: 14 Oct 97 4:51 pm



Tgt Ion	Ratio	Lower	Upper
166	100		
164	76.9	53.6	99.5
168	46.6	33.4	62.0
0	0.0	0.0	0.0



Library Search Compound Report

Data File : D:\HPCHEM\1\DATA\V6940.D
Acq Time : 14 Oct 97 4:51 pm
Sample : 5252DEC-28801
Misc : 5ML 1:10

Operator:
Inst : 5971 -
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\8260RUNW.M
Title : 524.2 Purgable Organics
Library : NBS75K.L

No Library Search Compounds Detected

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

B94867

Lab Name: CHEMTECH Contract: NEW YORK STATE D.E.C.

Project No.: 5252DEC Site: _____ Location: _____ Group: _____

Matrix: (soil/water) WATER Lab Sample ID: O28802

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: V6925.D

Level: (low/med) _____ Date Received: 9/24/97

% Moisture: not dec. 100 Date Analyzed: 10/13/97

GC Column: RTX624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Concentration Units:

CAS No.	Compound	(ug/L or ug/Kg)	ug/L	Q
75-71-8	Dichlorodifluoromethane	5		U
74-87-3	Chloromethane	5		U
75-01-4	Vinyl Chloride	5		U
74-83-9	Bromomethane	5		U
75-00-3	Chloroethane	5		U
75-69-4	Trichlorofluoromethane	5		U
75-35-4	1,1-Dichloroethene	5		U
75-09-2	Methylene Chloride	5		U
156-60-5	trans-1,2-Dichloroethene	5		U
75-34-4	1,1-Dichloroethane	5		U
590-20-7	2,2-Dichloropropane	5		U
156-60-5	cis-1,2-dichloroethene	5		U
74-97-5	Bromochloromethane	5		U
67-66-3	Chloroform	5		U
71-55-6	1,1,1-Trichloroethane	100		
56-23-5	Carbon Tetrachloride	5		U
563-58-6	1,1-Dichloropropene	5		U
71-43-2	Benzene	5		U
107-06-2	1,2-Dichloroethane	5		U
79-01-6	Trichloroethene	1200		E
78-87-5	1,2-Dichloropropane	5		U
74-95-3	Dibromomethane	5		U
75-27-4	Bromodichloromethane	5		U
10061-01-5	cis-1,3-Dichloropropene	5		U
108-88-3	Toluene	39		
10061-02-6	trans-1,3-Dichloropropene	5		U
79-00-5	1,1,2-Trichloroethane	5		U
127-18-4	Tetrachloroethene	99		
142-28-9	1,3-Dichloropropane	5		U
124-48-1	Dibromochloromethane	5		U
106-93-4	1,2-Dibromoethane	5		U
108-90-7	Chlorobenzene	5		U
630-20-6	1,1,1,2-Tetrachloroethane	5		U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

B94867

Lab Name: CHEMTECH Contract: NEW YORK STATE D.E.C.

Project No.: 5252DEC Site: _____ Location: _____ Group: _____

Matrix: (soil/water) WATER Lab Sample ID: O28802

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: V6925.D

Level: (low/med) _____ Date Received: 9/24/97

% Moisture: not dec. 100 Date Analyzed: 10/13/97

GC Column: RTX624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CAS No.	Compound	Concentration Units:		Q
		(ug/L or ug/Kg)	ug/L	
100-41-4	Ethylbenzene	5		U
1330-20-7	m&p-xylenes	5		U
95-47-6	o-xylene	5		U
100-42-5	Styrene	5		U
75-25-2	Bromoform	5		U
98-82-8	isopropylbenzene	5		U
108-86-1	Bromobenzene	5		U
79-34-5	1,1,2,2-Tetrachloroethane	5		U
96-18-4	1,2,3-Trichloropropane	5		U
103-65-1	n-Propylbenzene	5		U
95-49-8	2-Chlorotoluene	5		U
106-43-4	4-Chlorotoluene	5		U
108-67-8	1,3,5-Trimethylbenzene	5		U
98-06-6	tert-Butylbenzene	5		U
95-63-6	1,2,4-Trimethylbenzene	5		U
135-98-8	sec-Butylbenzene	5		U
541-73-1	1,3-Dichlorobenzene	5		U
99-87-6	4-Isopropyltoluene	5		U
106-46-7	1,4-Dichlorobenzene	5		U
95-50-1	1,2-Dichlorobenzene	5		U
104-51-8	n-Butylbenzene	5		U
96-12-8	1,2-Dibromo-3-chloropropane	5		U
120-82-1	1,2,4-Trichlorobenzene	5		U
87-68-3	Hexachlorobutadiene	5		U
91-20-3	Naphthalene	5		U
87-61-6	1,2,3-Trichlorobenzene	5		U

IE
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.

B94867

Lab Name: CHEMTECH Contract: NEW YORK STATE D.E.C.
 Project No. 5252 Site: _____ Location: _____ Group: _____
 Matrix: (soil/water) WATER Lab Sample ID: O28802
 Sample wt/vol: 5.0 (g/mL) ML Lab File ID: V6925.D
 Level: (low/med) _____ Date Received: 9/24/97
 % Moisture: not dec. 100 Date Analyzed: 10/13/97
 GC Column: RTX624 ID: 0.53 (mm) Dilution Factor: 1.0
 Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Concentration Units:

Number TICs found: 0 (ug/L or ug/Kg) ug/L

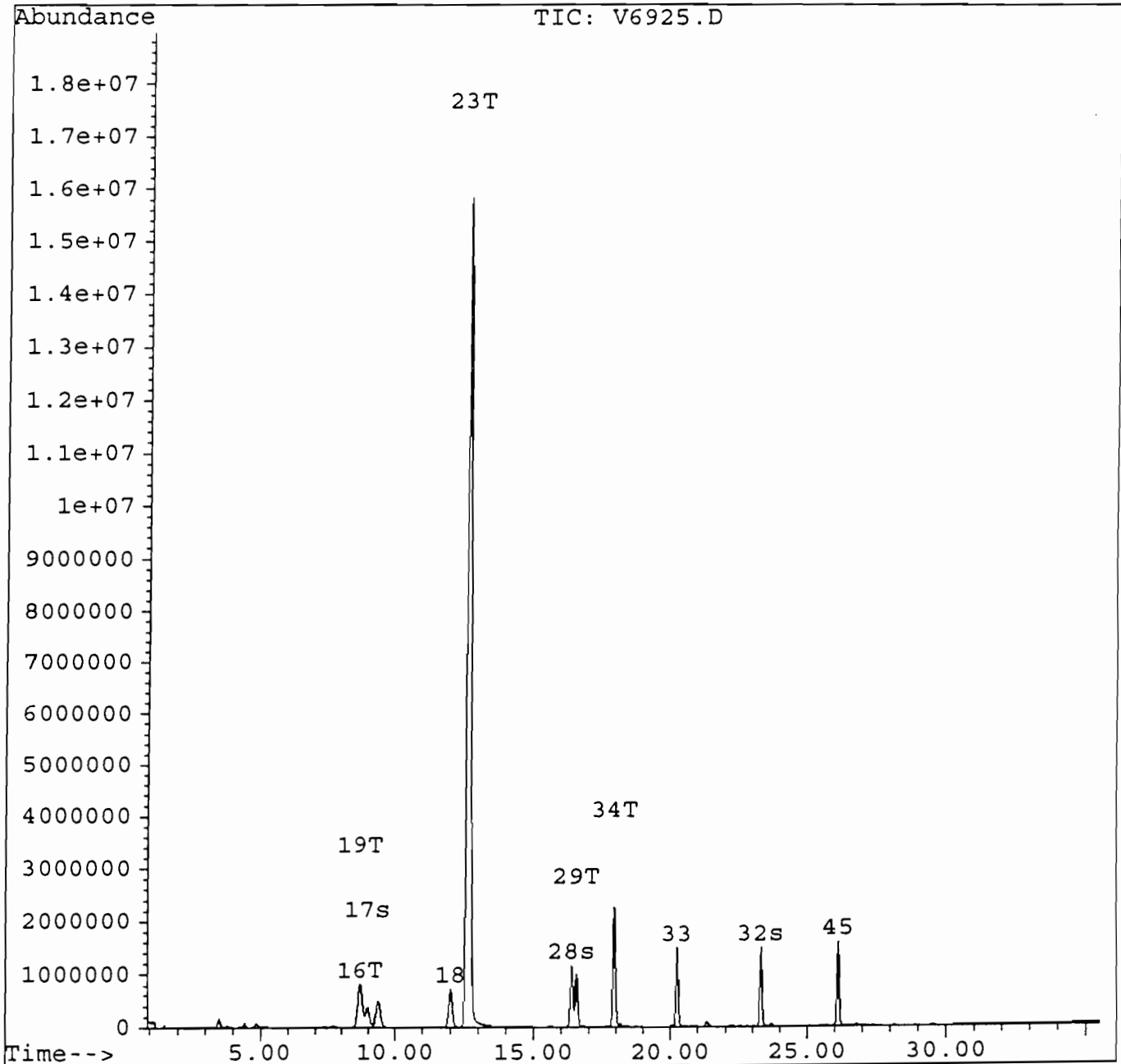
CAS Number	Compound Name	RT	Est. Conc.	Q
1.				
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
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21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

Quantitation Report

Data File : D:\HPCHEM\1\DATA\V6925.D
Acq Time : 13 Oct 97 7:43 pm
Sample : 5252DEC-28802
Misc : 5ML
Quant Time: Oct 23 20:52 1997

Operator:
Inst : 5971 - 1
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\8260RUNW.M
Title : 524.2 Purgable Organics
Last Update : Thu Sep 25 17:02:16 1997
Response via : Multiple Level Calibration



Quantitation Report

Data File : D:\HPCHEM\1\DATA\V6925.D
Acq Time : 13 Oct 97 7:43 pm
Sample : 5252DEC-28802
Misc : 5ML
Quant Time: Oct 23 20:52 1997

Operator:
Inst : 5971 - 1
Multiplr: 1.00

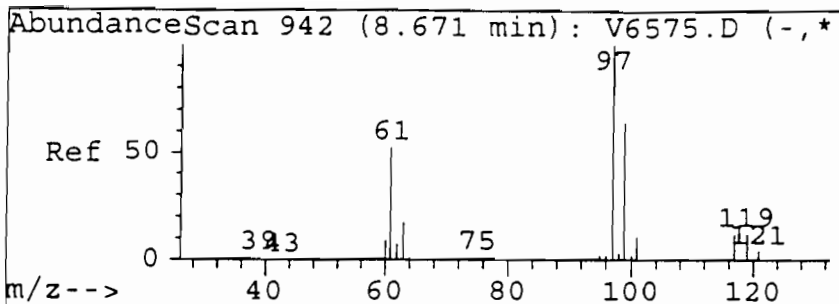
Method : C:\HPCHEM\1\METHODS\8260RUNW.M
Title : 524.2 Purgable Organics
Last Update : Thu Sep 25 17:02:16 1997
Response via : Multiple Level Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	9.39	168	1889649	50.00	ug/L	0.10
18) 1,4-Difluorobenzene	12.01	114	2840651	50.00	ug/L	0.08
33) Chlorobenzene-d5	20.25	117	2872275	50.00	ug/L	0.24
45) 1,4-dichlorobenzene-d4	26.11	152	1517168	50.00	ug/L	0.09

System Monitoring Compounds					%Recovery
17) Dibromofluoromethane	8.98	113	1300042	48.75 ug/L	97.50
28) Toluene-d8	16.37	98	2935614	46.82 ug/L	93.65
32) 4-Bromofluorobenzene	23.29	95	1975083	48.71 ug/L	97.42

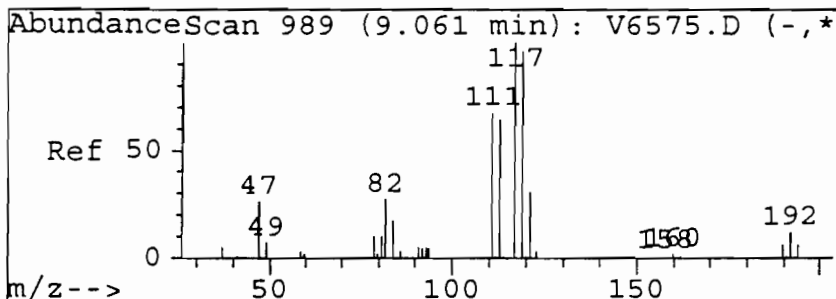
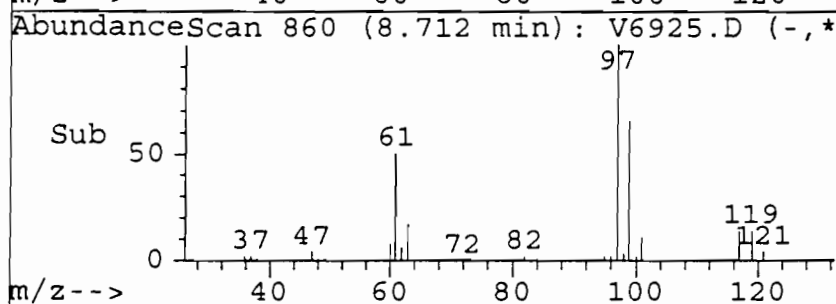
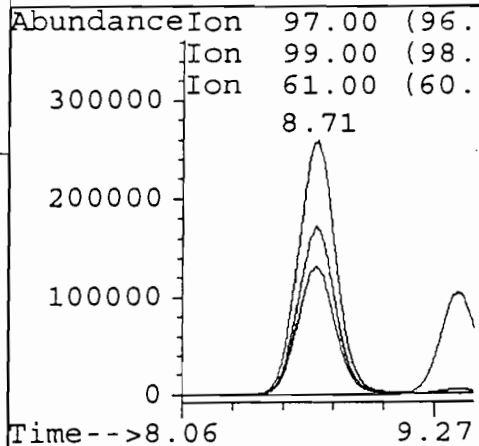
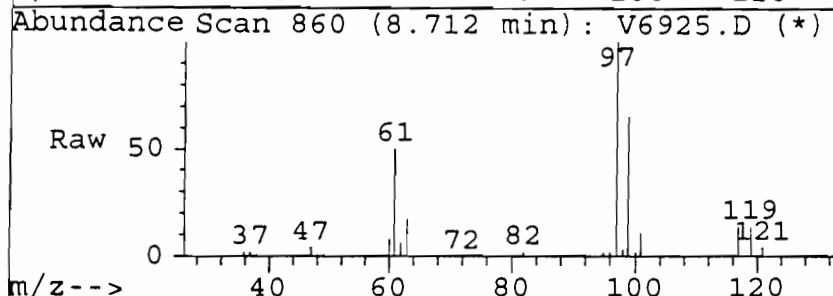
Target Compounds					Qvalue
16) 1,1,1-trichloroethane	8.71	97	3245308	100.58 ug/L	99
~~19) carbon tetrachloride~~	8.70	117	443305	25.91 ug/L	96
23) trichloroethene	12.65	130	27513012	1217.38 ug/L	8
29) toluene	16.54	91	2750170	39.04 ug/L	99
34) tetrachloroethene	17.93	166	2590348	99.16 ug/L	98

Handwritten signature and date 10/23/97



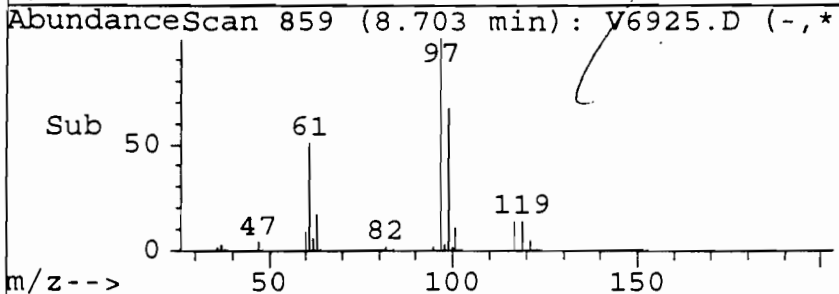
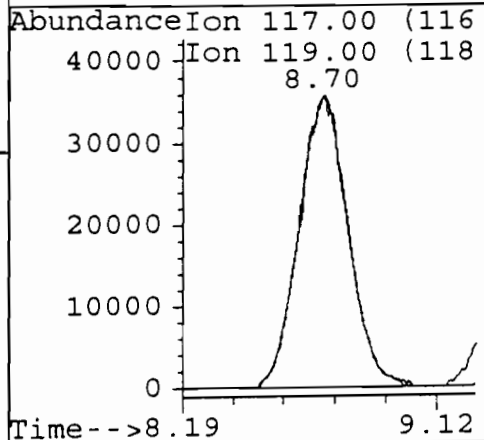
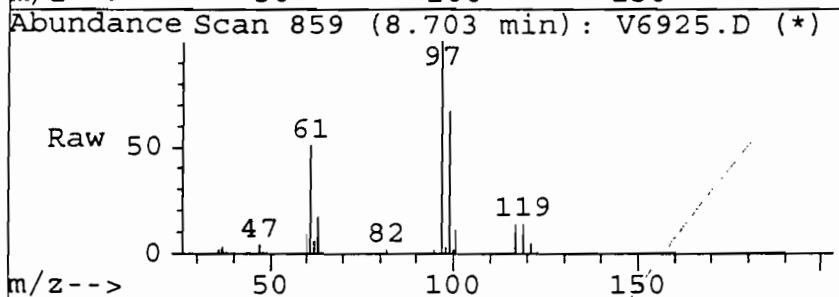
#16
1,1,1-trichloroethane
Concen: 100.58 ug/L
RT: 8.71 min Scan# 860
Delta R.T. 0.12 min
Lab File: V6925.D
Acq: 13 Oct 97 7:43 pm

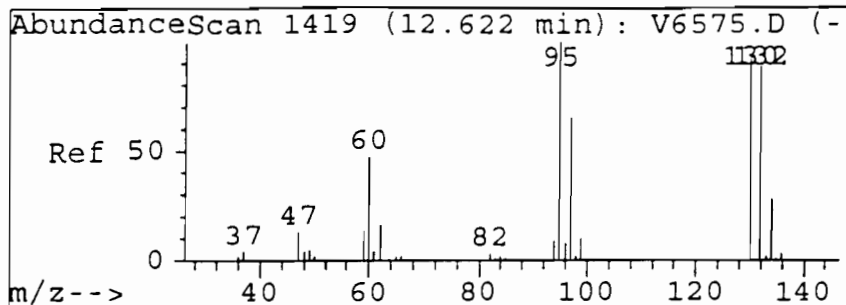
Tgt Ion	97	Resp	3245308
Ion	Ratio	Lower	Upper
97	100		
99	64.6	45.7	84.9
61	49.7	34.9	64.7
0	0.0	0.0	0.0



#19
carbon tetrachloride
Concen: 25.91 ug/L
RT: 8.70 min Scan# 859
Delta R.T. -0.32 min
Lab File: V6925.D
Acq: 13 Oct 97 7:43 pm

Tgt Ion	117	Resp	443305
Ion	Ratio	Lower	Upper
117	100		
119	99.5	66.6	123.8
0	0.0	0.0	0.0
0	0.0	0.0	0.0

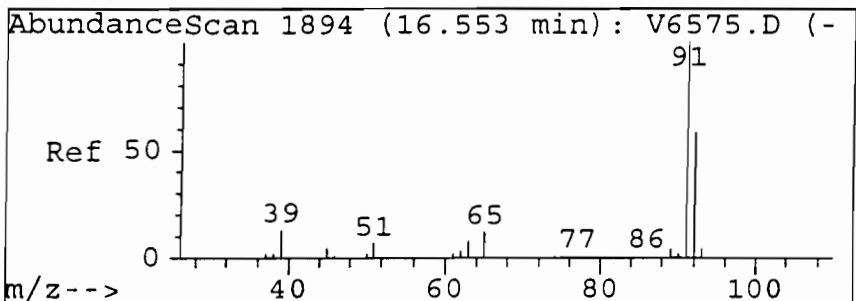
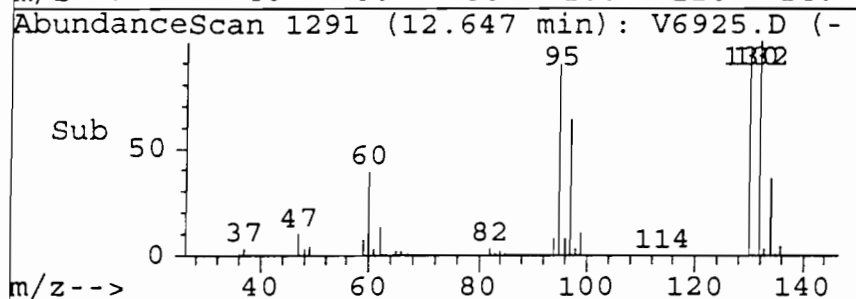
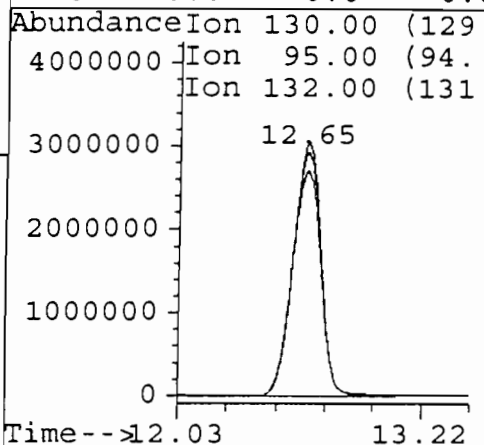
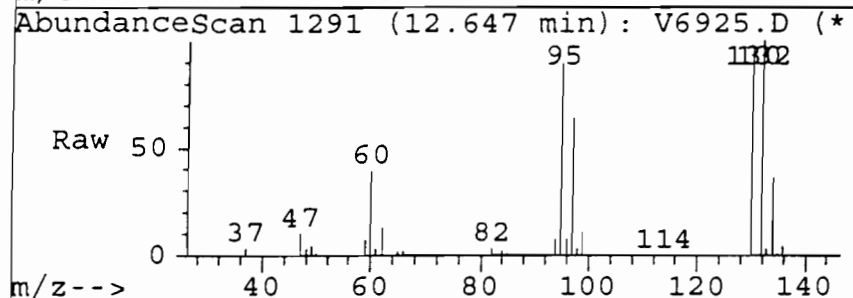




#23
trichloroethene
Concen: 1217.38 ug/L
RT: 12.65 min Scan# 1291
Delta R.T. 0.12 min
Lab File: V6925.D
Acq: 13 Oct 97 7:43 pm

Tgt Ion:130 Resp:27513012

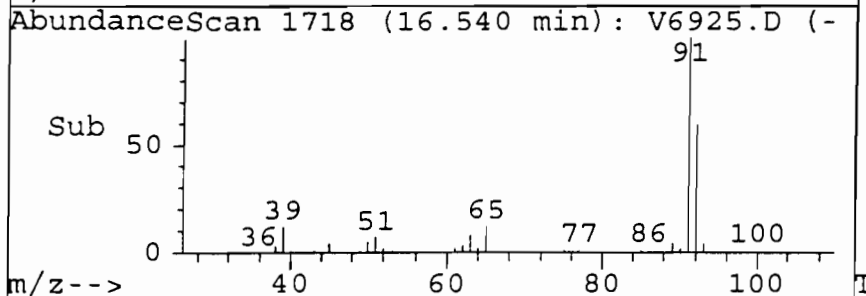
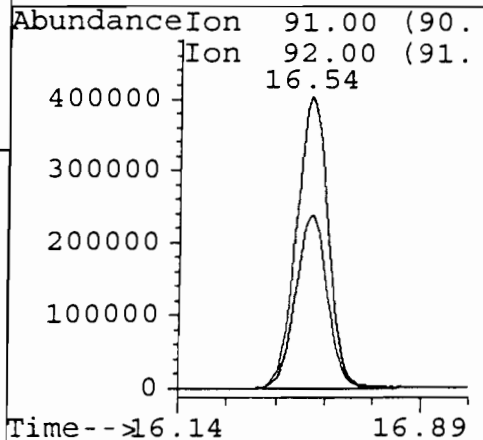
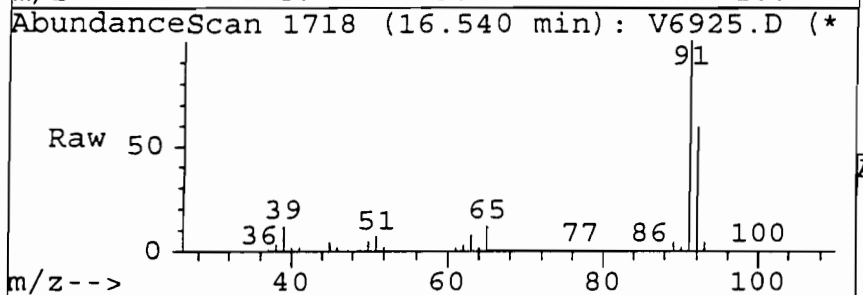
Ion	Ratio	Lower	Upper
130	100		
95	92.5	76.2	141.4
132	103.6	67.2	124.8
0	0.0	0.0	0.0

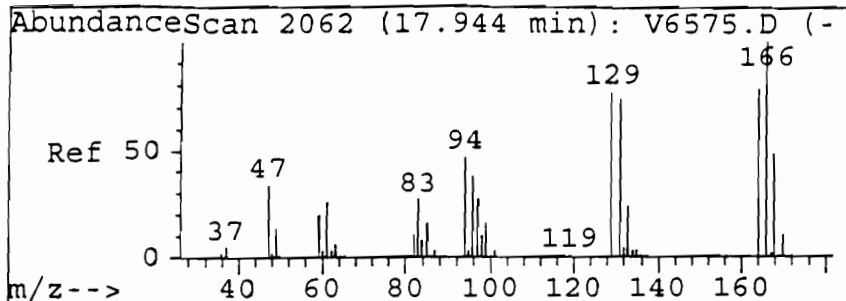


#29
toluene
Concen: 39.04 ug/L
RT: 16.54 min Scan# 1718
Delta R.T. 0.15 min
Lab File: V6925.D
Acq: 13 Oct 97 7:43 pm

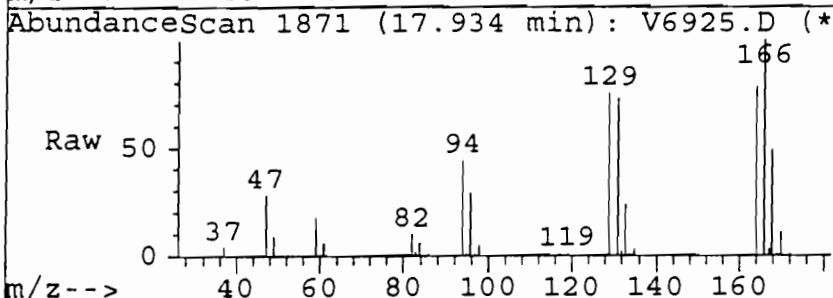
Tgt Ion:91 Resp: 2750170

Ion	Ratio	Lower	Upper
91	100		
92	58.6	41.6	77.2
0	0.0	0.0	0.0
0	0.0	0.0	0.0

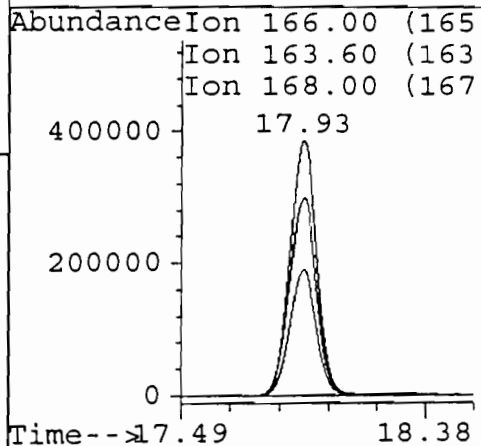
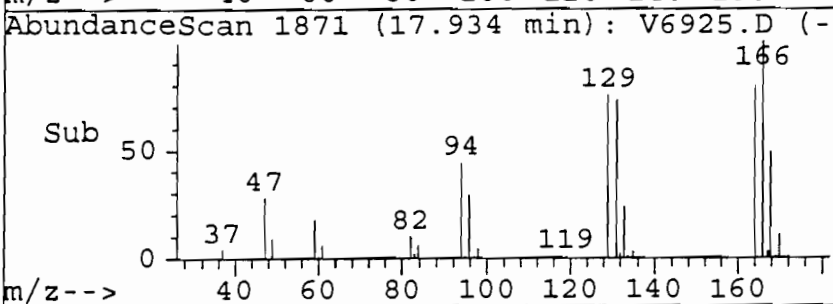




#34
tetrachloroethene
Concen: 99.16 ug/L
RT: 17.93 min Scan# 1871
Delta R.T. 0.23 min
Lab File: V6925.D
Acq: 13 Oct 97 7:43 pm



Tgt Ion:166 Resp: 2590348
Ion Ratio Lower Upper
166 100
164 77.5 53.6 99.5
168 49.4 33.4 62.0
0 0.0 0.0 0.0



Library Search Compound Report

Data File : D:\HPCHEM\1\DATA\V6925.D
Acq Time : 13 Oct 97 7:43 pm
Sample : 5252DEC-28802
Misc : SML

Operator:
Inst : 5971 - In
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\8260RUNW.M
Title : 524.2 Purgable Organics
Library : NBS75K.L

No Library Search Compounds Detected

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

B94867DL

Lab Name: CHEMTECH

Contract: NEW YORK STATE D.E.C.

Project No.: 5252DEC

Site: _____

Location: _____

Group: _____

Matrix: (soil/water) WATER

Lab Sample ID: O28802DL

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

Lab File ID: V6941.D

Level: (low/med) _____

Date Received: 9/24/97

% Moisture: not dec. 100

Date Analyzed: 10/14/97

GC Column: RTX624

ID: 0.53 (mm)

Dilution Factor: 10.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

CAS No.	Compound	Concentration Units:	
		(ug/L or ug/Kg)	ug/L
			Q
75-71-8	Dichlorodifluoromethane	50	UD
74-87-3	Chloromethane	50	UD
75-01-4	Vinyl Chloride	50	UD
74-83-9	Bromomethane	50	UD
75-00-3	Chloroethane	50	UD
75-69-4	Trichlorofluoromethane	50	UD
75-35-4	1,1-Dichloroethene	50	UD
75-09-2	Methylene Chloride	50	UD
156-60-5	trans-1,2-Dichloroethene	50	UD
75-34-4	1,1-Dichloroethane	50	UD
590-20-7	2,2-Dichloropropane	50	UD
156-60-5	cis-1,2-dichloroethene	50	UD
74-97-5	Bromochloromethane	50	UD
67-66-3	Chloroform	50	UD
71-55-6	1,1,1-Trichloroethane	88	D
56-23-5	Carbon Tetrachloride	50	UD
563-58-6	1,1-Dichloropropene	50	UD
71-43-2	Benzene	50	UD
107-06-2	1,2-Dichloroethane	50	UD
79-01-6	Trichloroethene	1400	D
78-87-5	1,2-Dichloropropane	50	UD
74-95-3	Dibromomethane	50	UD
75-27-4	Bromodichloromethane	50	UD
10061-01-5	cis-1,3-Dichloropropene	50	UD
108-88-3	Toluene	50	UD
10061-02-6	trans-1,3-Dichloropropene	50	UD
79-00-5	1,1,2-Trichloroethane	50	UD
127-18-4	Tetrachloroethene	100	D
142-28-9	1,3-Dichloropropane	50	UD
124-48-1	Dibromochloromethane	50	UD
106-93-4	1,2-Dibromoethane	50	UD
108-90-7	Chlorobenzene	50	UD
630-20-6	1,1,1,2-Tetrachloroethane	50	UD

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

B94867DL

Lab Name: CHEMTECH Contract: NEW YORK STATE D.E.C.

Project No.: 5252DEC Site: _____ Location: _____ Group: _____

Matrix: (soil/water) WATER Lab Sample ID: O28802DL

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: V6941.D

Level: (low/med) _____ Date Received: 9/24/97

% Moisture: not dec. 100 Date Analyzed: 10/14/97

GC Column: RTX624 ID: 0.53 (mm) Dilution Factor: 10.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CAS No.	Compound	Concentration Units:		Q
		(ug/L or ug/Kg)	ug/L	
100-41-4	Ethylbenzene	50		UD
1330-20-7	m&p-xylenes	50		UD
95-47-6	o-xylene	50		UD
100-42-5	Styrene	50		UD
75-25-2	Bromoform	50		UD
98-82-8	isopropylbenzene	50		UD
108-86-1	Bromobenzene	50		UD
79-34-5	1,1,2,2-Tetrachloroethane	50		UD
96-18-4	1,2,3-Trichloropropane	50		UD
103-65-1	n-Propylbenzene	50		UD
95-49-8	2-Chlorotoluene	50		UD
106-43-4	4-Chlorotoluene	50		UD
108-67-8	1,3,5-Trimethylbenzene	50		UD
98-06-6	tert-Butylbenzene	50		UD
95-63-6	1,2,4-Trimethylbenzene	50		UD
135-98-8	sec-Butylbenzene	50		UD
541-73-1	1,3-Dichlorobenzene	50		UD
99-87-6	4-Isopropyltoluene	50		UD
106-46-7	1,4-Dichlorobenzene	50		UD
95-50-1	1,2-Dichlorobenzene	50		UD
104-51-8	n-Butylbenzene	50		UD
96-12-8	1,2-Dibromo-3-chloropropane	50		UD
120-82-1	1,2,4-Trichlorobenzene	50		UD
87-68-3	Hexachlorobutadiene	50		UD
91-20-3	Naphthalene	50		UD
87-61-6	1,2,3-Trichlorobenzene	50		UD

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.

B94867DL

Lab Name: CHEMTECH Contract: NEW YORK STATE D.E.C.
Project No. 5252 Site: _____ Location: _____ Group: _____
Matrix: (soil/water) WATER Lab Sample ID: O28802DL
Sample wt/vol: 5.0 (g/mL) ML Lab File ID: V6941.D
Level: (low/med) _____ Date Received: 9/24/97
% Moisture: not dec. 100 Date Analyzed: 10/14/97
GC Column: RTX624 ID: 0.53 (mm) Dilution Factor: 10.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Concentration Units:
Number TICs found: 0 (ug/L or ug/Kg) ug/L

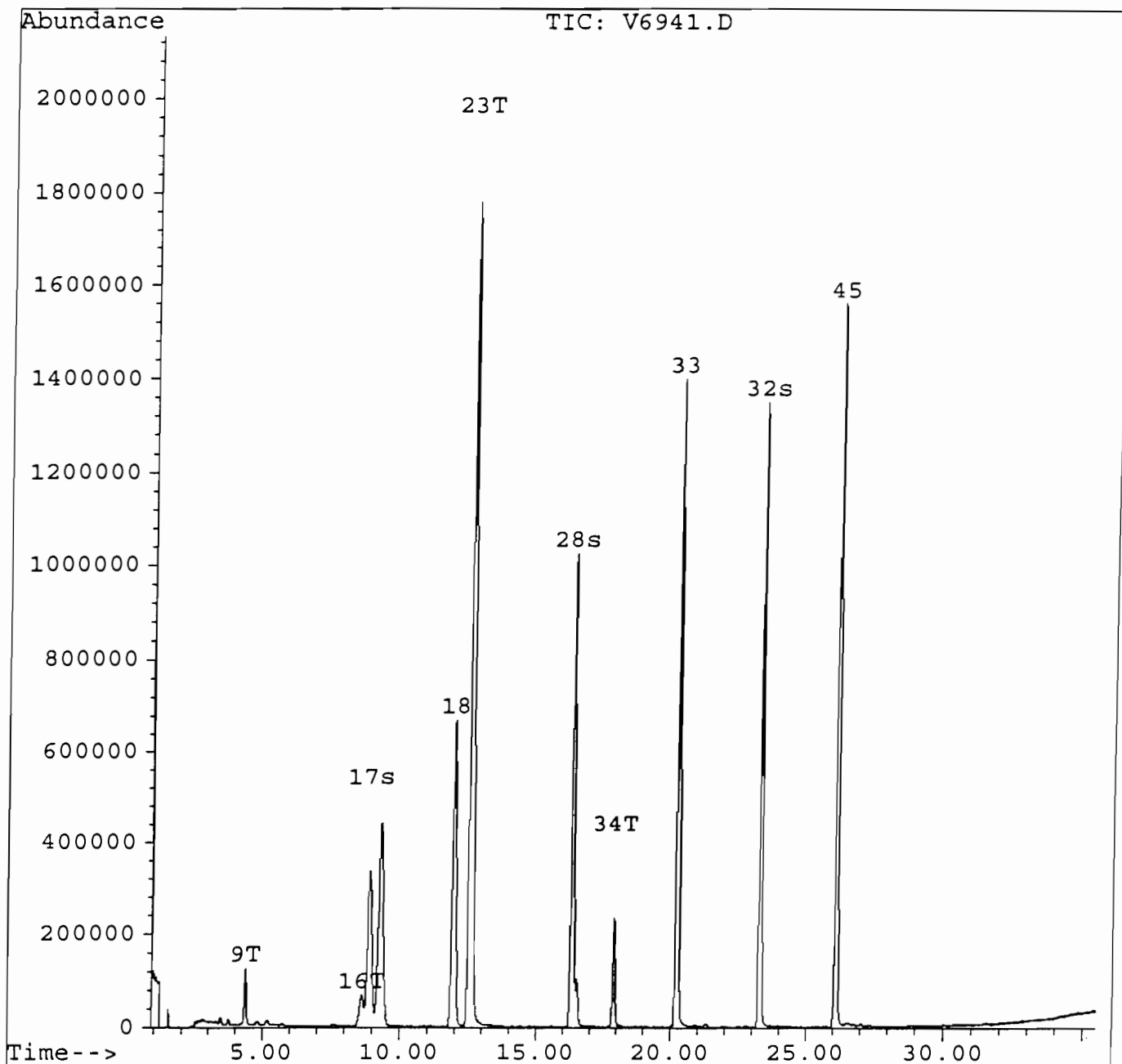
CAS Number	Compound Name	RT	Est. Conc.	Q
1.				
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				
19.				
20.				
21.				
22.				
23.				
24.				
25.				
26.				
27.				
28.				
29.				
30.				

Quantitation Report

Data File : D:\HPCHEM\1\DATA\V6941.D
Acq Time : 14 Oct 97 5:33 pm
Sample : 5252DEC-28802
Misc : SML 1:10
Quant Time: Oct 23 20:58 1997

Operator:
Inst : 5971 - In
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\8260RUNW.M
Title : 524.2 Purgable Organics
Last Update : Thu Sep 25 17:02:16 1997
Response via : Multiple Level Calibration



Quantitation Report

Data File : D:\HPCHEM\1\DATA\V6941.D

Acq Time : 14 Oct 97 5:33 pm

Sample : 5252DEC-28802

Misc : 5ML 1:10

Quant Time: Oct 23 20:58 1997

Operator:

Inst : 5971 - I

Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\8260RUNW.M

Title : 524.2 Purgable Organics

Last Update : Thu Sep 25 17:02:16 1997

Response via : Multiple Level Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Pentafluorobenzene	9.32	168	1743665	50.00	ug/L	0.04
18) 1,4-Difluorobenzene	11.96	114	2638778	50.00	ug/L	0.03
33) Chlorobenzene-d5	20.23	117	2735950	50.00	ug/L	0.23
45) 1,4-dichlorobenzene-d4	26.10	152	1465506	50.00	ug/L	0.07

System Monitoring Compounds						%Recovery
17) Dibromofluoromethane	8.90	113	1171727	47.62	ug/L	95.23%
28) Toluene-d8	16.33	98	2641829	45.36	ug/L	90.72%
32) 4-Bromofluorobenzene	23.28	95	1797547	47.72	ug/L	95.45%

Target Compounds						Qvalue
9) methylene chloride	4.39	84	130422	6.00	ug/L	92
16) 1,1,1-trichloroethane	8.64	97	260884	8.76	ug/L	99
23) trichloroethene	12.59	130	2858913	136.18	ug/L	97
34) tetrachloroethene	17.90	166	253131	10.17	ug/L	99

(#) = qualifier out of range (m) = manual integration

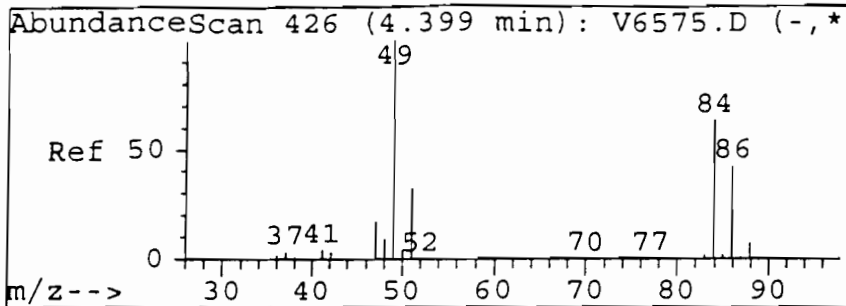
V6941.D 8260RUNW.M

Thu Oct 23 20:58:16 1997

VOA1

Page 1

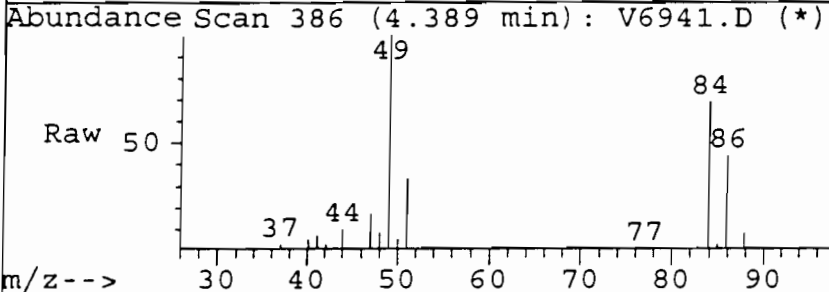
000075



#9
methylene chloride
Concen: 6.00 ug/L
RT: 4.39 min Scan# 386
Delta R.T. 0.01 min
Lab File: V6941.D
Acq: 14 Oct 97 5:33 pm

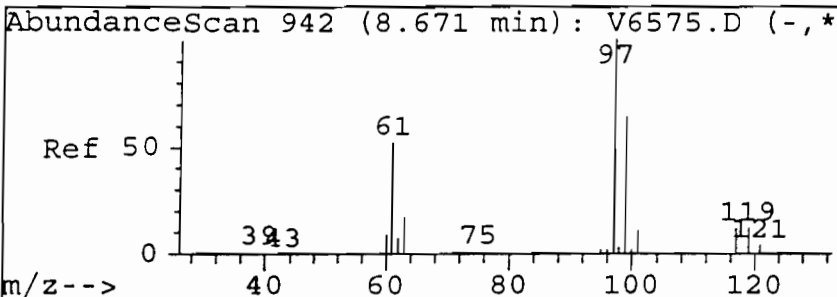
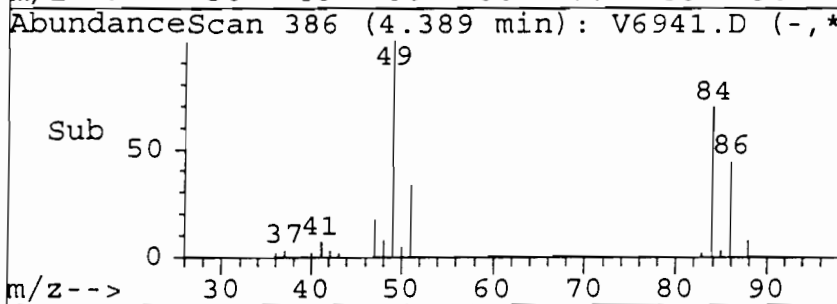
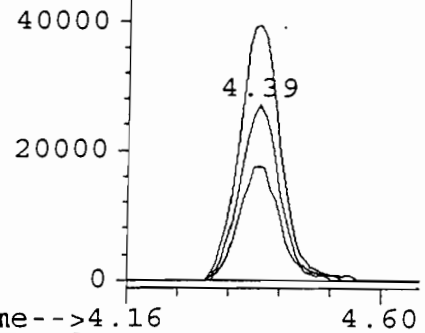
Tgt Ion:84 Resp: 130422

Ion	Ratio	Lower	Upper
84	100		
86	64.3	47.0	87.2
49	145.6	110.4	205.0
0	0.0	0.0	0.0



AbundanceIon

84.00	(83.
Ion 86.00	(85.
Ion 49.00	(48.



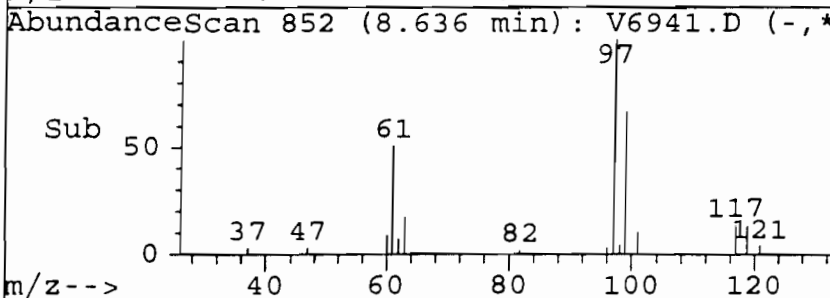
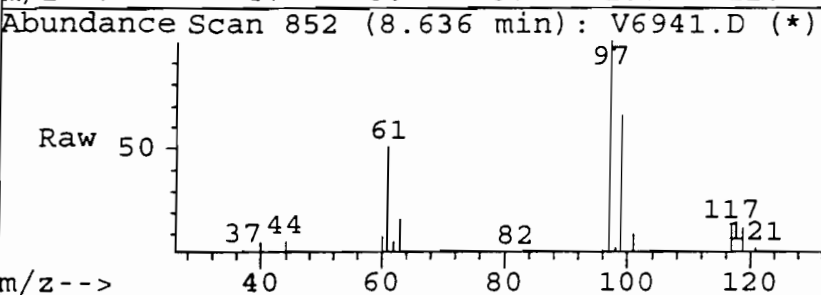
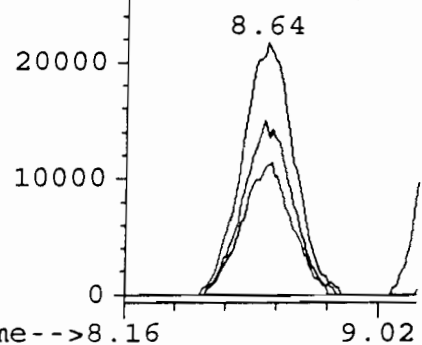
#16
1,1,1-trichloroethane
Concen: 8.76 ug/L
RT: 8.64 min Scan# 852
Delta R.T. 0.04 min
Lab File: V6941.D
Acq: 14 Oct 97 5:33 pm

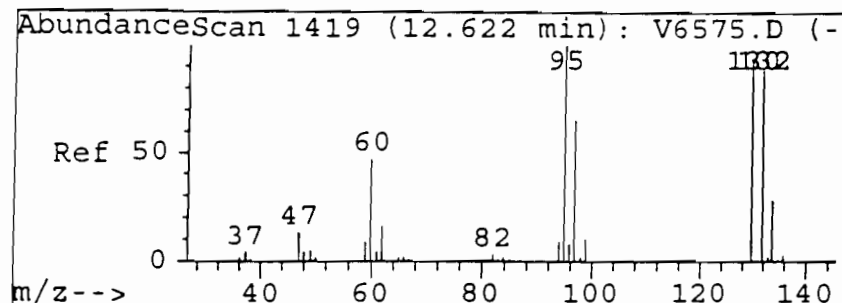
Tgt Ion:97 Resp: 260884

Ion	Ratio	Lower	Upper
97	100		
99	66.0	45.7	84.9
61	50.9	34.9	64.7
0	0.0	0.0	0.0

AbundanceIon

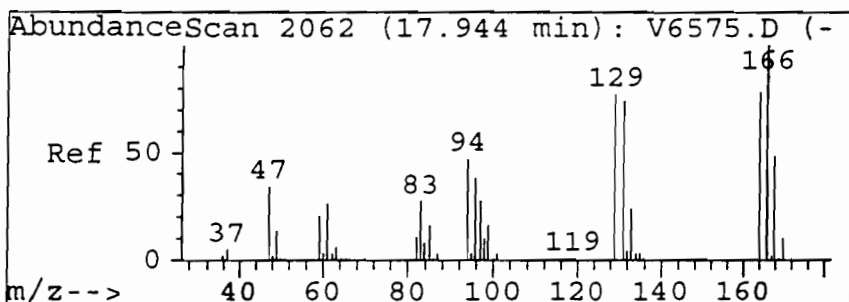
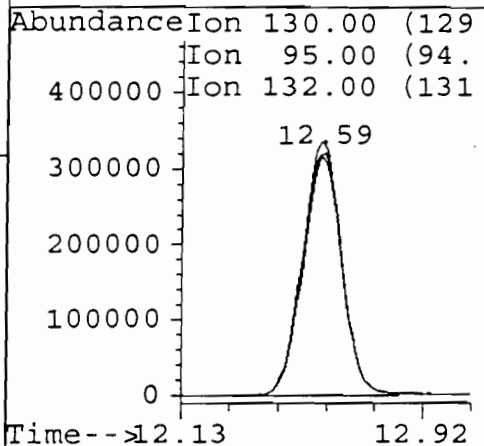
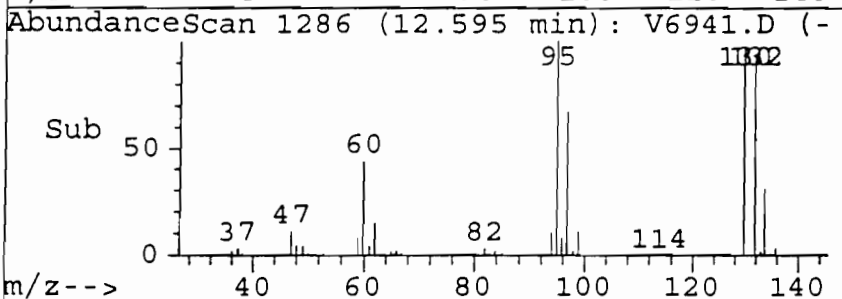
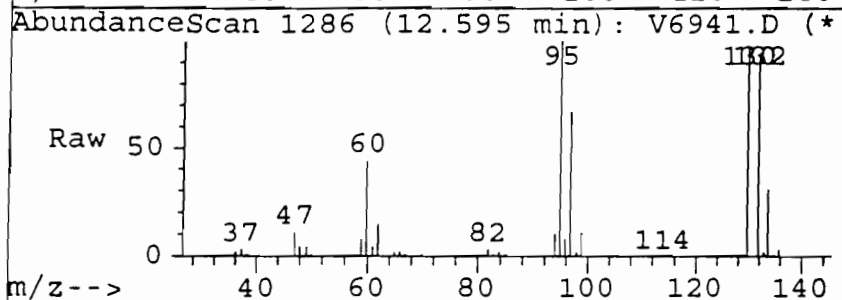
97.00	(96.
Ion 99.00	(98.
Ion 61.00	(60.





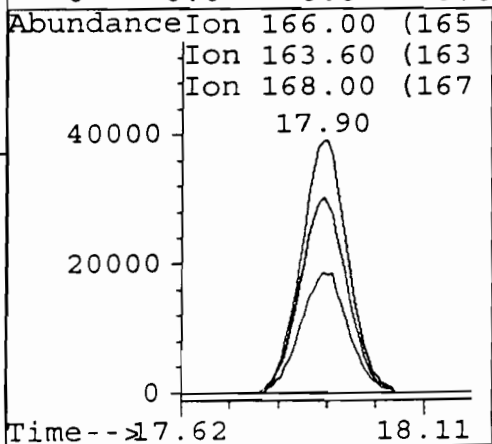
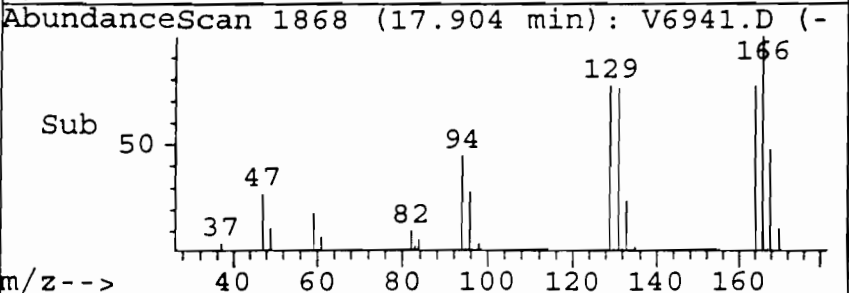
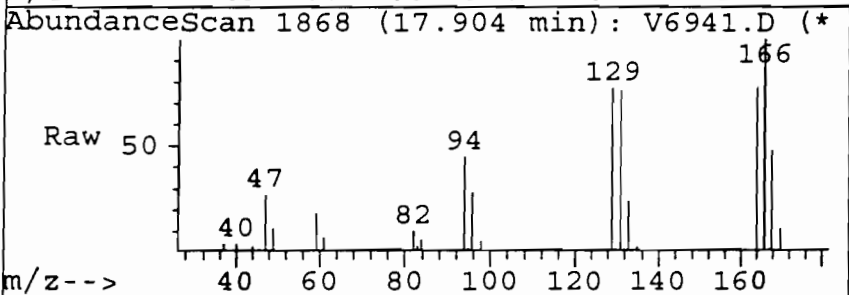
#23
trichloroethene
Concen: 136.18 ug/L
RT: 12.59 min Scan# 1286
Delta R.T. 0.06 min
Lab File: V6941.D
Acq: 14 Oct 97 5:33 pm

Tgt Ion:	130	Resp:	2858913
Ion	Ratio	Lower	Upper
130	100		
95	102.7	76.2	141.4
132	96.5	67.2	124.8
0	0.0	0.0	0.0



#34
tetrachloroethene
Concen: 10.17 ug/L
RT: 17.90 min Scan# 1868
Delta R.T. 0.20 min
Lab File: V6941.D
Acq: 14 Oct 97 5:33 pm

Tgt Ion:	166	Resp:	253131
Ion	Ratio	Lower	Upper
166	100		
164	77.4	53.6	99.5
168	47.7	33.4	62.0
0	0.0	0.0	0.0



Library Search Compound Report

Data File : D:\HPCHEM\1\DATA\V6941.D
Acq Time : 14 Oct 97 5:33 pm
Sample : 5252DEC-28802
Misc : 5ML 1:10

Operator:
Inst : 5971 - I
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\8260RUNW.M
Title : 524.2 Purgable Organics
Library : NBS75K.L

No Library Search Compounds Detected

VOLATILES

STANDARDS DATA

000079

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECHContract: NEW YORK STATE D.E.C.Project No.: 5252DEC

Site: _____

Location: _____

Group: _____

Instrument ID: VOA1Calibration Date(s): 9/25/97 9/25/97Heated Purge: (Y/N) NCalibration Times: 1248 1537GC Column RTX624ID: 0.53 (mm)

Lab File ID:		RRF005 = V6610.D		RRF20 = V6608.D			
RRF50 = V6609.D		RRF100 = V6611.D		RRF200 = V6612.D			
COMPOUND	RRF005	RRF20	RRF50	RRF100	RRF200	RRF	% RSD
Dichlorodifluoromethane	0.340	0.388	0.373	0.401	0.357	0.372	6.5
Chloromethane *	0.397	0.404	0.380	0.406	0.372	0.392	3.9 *
Vinyl Chloride	0.346	0.392	0.374	0.399	0.357	0.374	6.0
Bromomethane	0.184	0.176	0.158	0.152	0.102	0.155	20.8
Chloroethane	0.144	0.119	0.093	0.088	0.068	0.103	28.6
Trichlorofluoromethane	0.651	0.708	0.588	0.445	0.291	0.537	31.4
1,1-Dichloroethene	0.584	0.622	0.573	0.584	0.448	0.562	11.8
Methylene Chloride	1.016	0.601	0.509	0.528	0.464	0.624	36.1
trans-1,2-Dichloroethene	0.591	0.616	0.583	0.612	0.534	0.587	5.6
1,1-Dichloroethane *	0.990	0.975	0.980	1.029	0.935	0.982	3.4 *
2,2-Dichloropropane	0.843	0.847	0.799	0.846	0.752	0.817	5.1
cis-1,2-dichloroethene	1.162	1.185	1.107	1.161	1.035	1.130	5.3
Bromochloromethane	0.981	0.926	0.857	0.880	0.764	0.882	9.2
Chloroform	1.175	1.138	1.084	1.153	1.042	1.118	4.8
1,1,1-Trichloroethane	0.842	0.867	0.846	0.900	0.815	0.854	3.7
Carbon Tetrachloride	0.286	0.273	0.306	0.360	0.281	0.301	11.6
1,1-Dichloropropene	1.085	0.685	0.559	0.531	0.478	0.667	36.7
Benzene	1.129	1.090	1.045	1.054	0.983	1.060	5.2
1,2-Dichloroethane	0.477	0.460	0.429	0.430	0.397	0.439	7.1
Trichloroethene	0.418	0.402	0.387	0.400	0.382	0.398	3.5
1,2-Dichloropropane	0.524	0.506	0.475	0.477	0.434	0.483	7.1
Dibromomethane	0.419	0.375	0.358	0.366	0.361	0.376	6.7
Bromodichloromethane	0.546	0.537	0.513	0.518	0.481	0.519	4.9
cis-1,3-Dichloropropene	0.660	0.640	0.607	0.612	0.564	0.617	5.9
Toluene	1.396	1.284	1.209	1.214	1.096	1.240	8.9
trans-1,3-Dichloropropene	0.560	0.531	0.496	0.501	0.439	0.506	8.9
1,1,2-Trichloroethane	0.480	0.413	0.378	0.371	0.328	0.394	14.5
Tetrachloroethene	0.474	0.455	0.443	0.462	0.439	0.455	3.1
1,3-Dichloropropane	0.841	0.758	0.689	0.680	0.622	0.718	11.7
Dibromochloromethane	0.383	0.368	0.350	0.357	0.340	0.360	4.6
1,2-Dibromoethane	0.753	0.643	0.603	0.586	0.548	0.626	12.5
Chlorobenzene *	0.972	0.949	0.902	0.904	0.863	0.918	4.6 *
1,1,1,2-Tetrachloroethane	0.446	0.420	0.404	0.424	0.411	0.421	3.8
Ethylbenzene	1.677	1.648	1.530	1.487	1.326	1.534	9.2
m&p-xylenes	1.251	1.239	1.162	1.160	1.080	1.178	5.9
o-xylene	1.369	1.312	1.218	1.199	1.094	1.238	8.6

* Compounds with required minimum RRF and maximum %RSD values.

All other compounds must meet a minimum RRF of 0.010.

Contract: NEW YORK STATE D.E.C.

Group:

Calibration Date(s): 9/25/97 9/25/97

Calibration Times: 1248 1537

ID: 0.53 (min)

000081

Response Factor Report 5971 - In

Method : D:\HPCHEM\1\METHODS\8260RUNW.M
 Title : 524.2 Purgable Organics
 Last Update : Thu Sep 25 17:02:16 1997
 Response via : Initial Calibration

Calibration Files

50 =V6609.D 5 =V6610.D 20 =V6608.D
 100 =V6611.D 200 =V6612.D

Compound		50	5	20	100	200	Avg	%RSD
-----ISTD-----								
1)	Pentafluorobenzene							
2) T	dichlorodifluoromethane	0.373	0.340	0.388	0.401	0.357	0.372	6.51
3) T	chloromethane	0.380	0.397	0.404	0.406	0.372	0.392	3.89
4) T	vinyl chloride	0.374	0.346	0.392	0.399	0.357	0.374	6.02
5) T	bromomethane	0.158	0.184	0.176	0.152	0.102	0.155	20.83
6) T	chloroethane	0.093	0.144	0.119	0.088	0.068	0.102	28.56
7) T	trichlorofluoromethane	0.588	0.651	0.708	0.445	0.291	0.536	31.44
8) T	1,1-dichloroethene	0.573	0.584	0.622	0.584	0.448	0.562	11.84
9) T	methylene chloride	0.509	1.016	0.601	0.528	0.464	0.624	36.07
10) T	trans-1,2-dichloroethene	0.583	0.591	0.616	0.612	0.534	0.587	5.58
11) T	1,1-dichloroethane	0.980	0.990	0.975	1.029	0.935	0.982	3.42
12) T	2,2-dichloropropane	0.799	0.843	0.846	0.846	0.752	0.817	5.09
13) T	cis-1,2-dichloroethene	1.107	1.162	1.185	1.161	1.035	1.130	5.32
14) T	bromochloromethane	0.857	0.981	0.926	0.879	0.764	0.882	9.21
15) T	chloroform	1.084	1.175	1.138	1.153	1.042	1.118	4.85
16) T	1,1,1-trichloroethane	0.846	0.842	0.867	0.900	0.815	0.854	3.69
17) s	Dibromofluoromethane	0.700	0.714	0.736	0.704	0.674	0.706	3.18
-----ISTD-----								
18)	1,4-Difluorobenzene							
19) T	carbon tetrachloride	0.306	0.286	0.273	0.360	0.281	0.301	11.59
20) T	1,1-dichloropropene	0.559	1.085	0.685	0.531	0.478	0.667	36.74
21) T	benzene	1.045	1.129	1.090	1.054	0.983	1.060	5.15
22) T	1,2-dichloroethane	0.429	0.477	0.460	0.430	0.397	0.439	7.07
23) T	trichloroethene	0.387	0.418	0.402	0.400	0.382	0.398	3.52
24) T	1,2-dichloropropane	0.475	0.524	0.506	0.477	0.434	0.483	7.12
25) T	dibromomethane	0.358	0.419	0.375	0.366	0.361	0.376	6.68
26) T	bromodichloromethane	0.513	0.546	0.537	0.518	0.481	0.519	4.89
27) T	cis-1,3-dichloropropene	0.607	0.660	0.640	0.612	0.564	0.617	5.90
28) s	Toluene-d8	1.099	1.184	1.147	1.081	1.007	1.104	6.10
29) T	toluene	1.209	1.396	1.284	1.214	1.096	1.240	8.88
30) T	trans-1,3-dichloropropene	0.496	0.560	0.531	0.501	0.439	0.506	8.91
31) T	1,1,2-trichloroethane	0.378	0.480	0.413	0.371	0.328	0.394	14.47
32) s	4-Bromofluorobenzene	0.702	0.804	0.759	0.681	0.623	0.714	9.82
-----ISTD-----								
33)	Chlorobenzene-d5							
34) T	tetrachloroethene	0.443	0.474	0.455	0.462	0.439	0.455	3.11
35) T	1,3-dichloropropane	0.689	0.841	0.758	0.680	0.622	0.718	11.73
36) T	dibromochloromethane	0.350	0.383	0.368	0.357	0.340	0.360	4.63
37) T	1,2-dibromoethane	0.603	0.753	0.643	0.586	0.548	0.626	12.54
38) T	chlorobenzene	0.902	0.972	0.949	0.904	0.863	0.918	4.64
39) T	1,1,1,2-tetrachloroethane	0.403	0.446	0.420	0.424	0.411	0.421	3.79
40) T	ethylbenzene	1.530	1.677	1.648	1.487	1.325	1.534	9.17
41) T	m&p-xylenes	1.162	1.251	1.239	1.160	1.080	1.178	5.87

(#) = Out of Range

8260RUNW.M

Fri Oct 24 14:07:54 1997

5971 INST

Page 1

000082

Response Factor Report 5971 - In

Method : D:\HPCHEM\1\METHODS\8260RUNW.M
 Title : 524.2 Purgable Organics
 Last Update : Thu Sep 25 17:02:16 1997
 Response via : Initial Calibration

Calibration Files

50 =V6609.D 5 =V6610.D 20 =V6608.D
 100 =V6611.D 200 =V6612.D

Compound		50	5	20	100	200	Avg	%RSD
42) T	o-xylene	1.218	1.368	1.312	1.199	1.094	1.238	8.59
43) T	styrene	0.288	0.304	0.302	0.289	0.278	0.292	3.61
44) T	bromoform	0.170	0.203	0.173	0.174	0.177	0.179	7.51
45)	1,4-dichlorobenzene-d4	-----ISTD-----						
46) T	isopropylbenzene	2.864	3.155	3.090	2.807	2.572	2.898	8.07
47) T	bromobenzene	1.815	2.224	2.013	1.748	1.559	1.872	13.63
48) T	1,1,2,2-tetrachloroethane	1.320	2.233	1.527	1.191	1.079	1.470	31.14
49)	1,2,3-trichloropropane	0.915	1.719	1.145	0.841	0.874	1.099	33.35
50) T	n-propylbenzene	0.745	0.805	0.794	0.745	0.693	0.756	5.94
51) T	2-chlorotoluene	0.738	0.835	0.793	0.745	0.696	0.761	7.03
52) T	4-chlorotoluene	0.747	0.867	0.807	0.741	0.696	0.772	8.62
53) T	1,3,5-trimethylbenzene	2.066	2.319	2.275	2.004	1.789	2.091	10.29
54) T	tert-butylbenzene	2.218	2.443	2.375	2.191	2.023	2.250	7.33
55) T	1,2,4-trimethylbenzene	2.347	2.746	2.554	2.288	2.099	2.407	10.37
56) T	sec-butylbenzene	3.536	3.978	3.802	3.450	3.108	3.575	9.37
57) T	1,3-dichlorobenzene	1.547	1.844	1.655	1.547	1.463	1.611	9.13
58) T	4-isopropyltoluene	2.697	2.984	2.894	2.669	2.426	2.734	7.94
59) T	1,4-dichlorobenzene	1.475	1.736	1.549	1.489	1.415	1.533	8.03
60) T	1,2-dichlorobenzene	1.433	1.808	1.524	1.421	1.356	1.508	11.79
61) T	n-butylbenzene	2.889	3.370	3.136	2.778	2.396	2.914	12.66
62) T	1,2-dibromo-3-chloropropa	0.281	0.611	0.313	0.251	0.245	0.340	45.23
63) T	1,2,4-trichlorobenzene	1.107	1.775	1.097	1.158	1.148	1.257	23.12
64) T	hexachlorobutadiene	0.682	0.810	0.706	0.726	0.712	0.727	6.71
65) T	naphthalene	1.927	3.264	1.601	1.963	1.955	2.142	30.12
66) T	1,2,3-trichlorobenzene	0.984	1.583	0.999	0.992	0.993	1.110	23.79

Quantitation Report

Data File : E:\HPCHEM\1\DATA\V6608.D

Acq Time : 25 Sep 97 12:48 pm

Sample : 20PPB VOA W 8260 ICC

Misc : 5ML

Quant Time: Sep 25 14:46 1997

Operator: RC

Inst : 5971 - I

Multiplr: 1.00

Method : D:\HPCHEM\1\METHODS\8260RUNW.M

Title : 524.2 Purgable Organics

Last Update : Thu Sep 25 17:02:16 1997

Response via : Single Level Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	9.38	168	1989266	50.00	ug/L	0.09
18) 1,4-Difluorobenzene	12.01	114	3056319	50.00	ug/L	0.08
33) Chlorobenzene-d5	20.27	117	2956120	50.00	ug/L	0.26
45) 1,4-dichlorobenzene-d4	26.13	152	1562200	50.00	ug/L	0.11

System Monitoring Compounds

%Recovery

17) Dibromofluoromethane	8.99	113	585541	21.01	ug/L	42.03%
28) Toluene-d8	16.37	98	1401723	20.86	ug/L	41.72%
32) 4-Bromofluorobenzene	23.32	95	927399	21.63	ug/L	43.25%

Target Compounds

Qvalue

2) dichlorodifluoromethane	1.71	85	308346	20.76	ug/L	98
3) chloromethane	1.94	50	321481	21.25	ug/L	97
4) vinyl chloride	2.03	62	311874	20.94	ug/L	99
5) bromomethane	2.42	94	140313	22.31	ug/L	98
6) chloroethane	2.53	64	94515	25.49	ug/L	92
7) trichlorofluoromethane	2.80	101	563438	24.10	ug/L	98
8) 1,1-dichloroethene	3.53	61	494999	21.72	ug/L	95
9) methylene chloride	4.41	84	478388	23.64	ug/L	97
10) trans-1,2-dichloroethene	4.81	61	490434	21.13	ug/L	93
11) 1,1-dichloroethane	5.79	63	775640	19.89	ug/L	100
12) 2,2-dichloropropane	7.18	77	673533	21.19	ug/L	94
13) cis-1,2-dichloroethene	7.33	61	943217	21.41	ug/L	96
14) bromochloromethane	8.05	49	736964	21.63	ug/L	94
15) chloroform	8.41	83	905461	21.00	ug/L	99
16) 1,1,1-trichloroethane	8.71	97	689676	20.49	ug/L	95
19) carbon tetrachloride	9.12	117	333677	17.85	ug/L	100
20) 1,1-dichloropropene	9.34	75	836929	24.49	ug/L	91
21) benzene	10.07	78	1332801	20.87	ug/L	99
22) 1,2-dichloroethane	10.59	62	562697	21.46	ug/L	98
23) trichloroethene	12.64	130	491679	20.78	ug/L	99
24) 1,2-dichloropropane	13.52	63	618049	21.30	ug/L	97
25) dibromomethane	13.89	174	458451	20.95	ug/L	94
26) bromodichloromethane	14.49	83	656247	20.92	ug/L	98
27) cis-1,3-dichloropropene	15.85	75	782705	21.09	ug/L	99
29) toluene	16.56	91	1570078	21.24	ug/L	98
30) trans-1,3-dichloropropene	17.57	75	649686	21.43	ug/L	99
31) 1,1,2-trichloroethane	18.00	97	505026	21.83	ug/L	100
34) tetrachloroethene	17.95	166	538420	20.54	ug/L	99
35) 1,3-dichloropropane	18.41	76	896795	22.02	ug/L	100
36) dibromochloromethane	18.87	129	434834	21.03	ug/L	98
37) 1,2-dibromoethane	19.08	107	760340	21.32	ug/L	99
38) chlorobenzene	20.34	112	1121827	21.03	ug/L	99
39) 1,1,1,2-tetrachloroethane	20.65	133	496140	20.80	ug/L	99

(#)=qualifier out of range (m)=manual integration

V6608.D 8260RUNW.M

Fri Oct 24 13:33:41 1997

5971 INST Page 1

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Quantitation Report

Data File : E:\HPCHEM\1\DATA\V6608.D
 Acq Time : 25 Sep 97 12:48 pm
 Sample : 20PPB VOA W 8260 ICC
 Misc : 5ML
 Quant Time: Sep 25 14:46 1997

Operator: RC
 Inst : 5971 - In
 Multiplr: 1.00

Method : D:\HPCHEM\1\METHODS\8260RUNW.M
 Title : 524.2 Purgable Organics
 Last Update : Thu Sep 25 17:02:16 1997
 Response via : Single Level Calibration

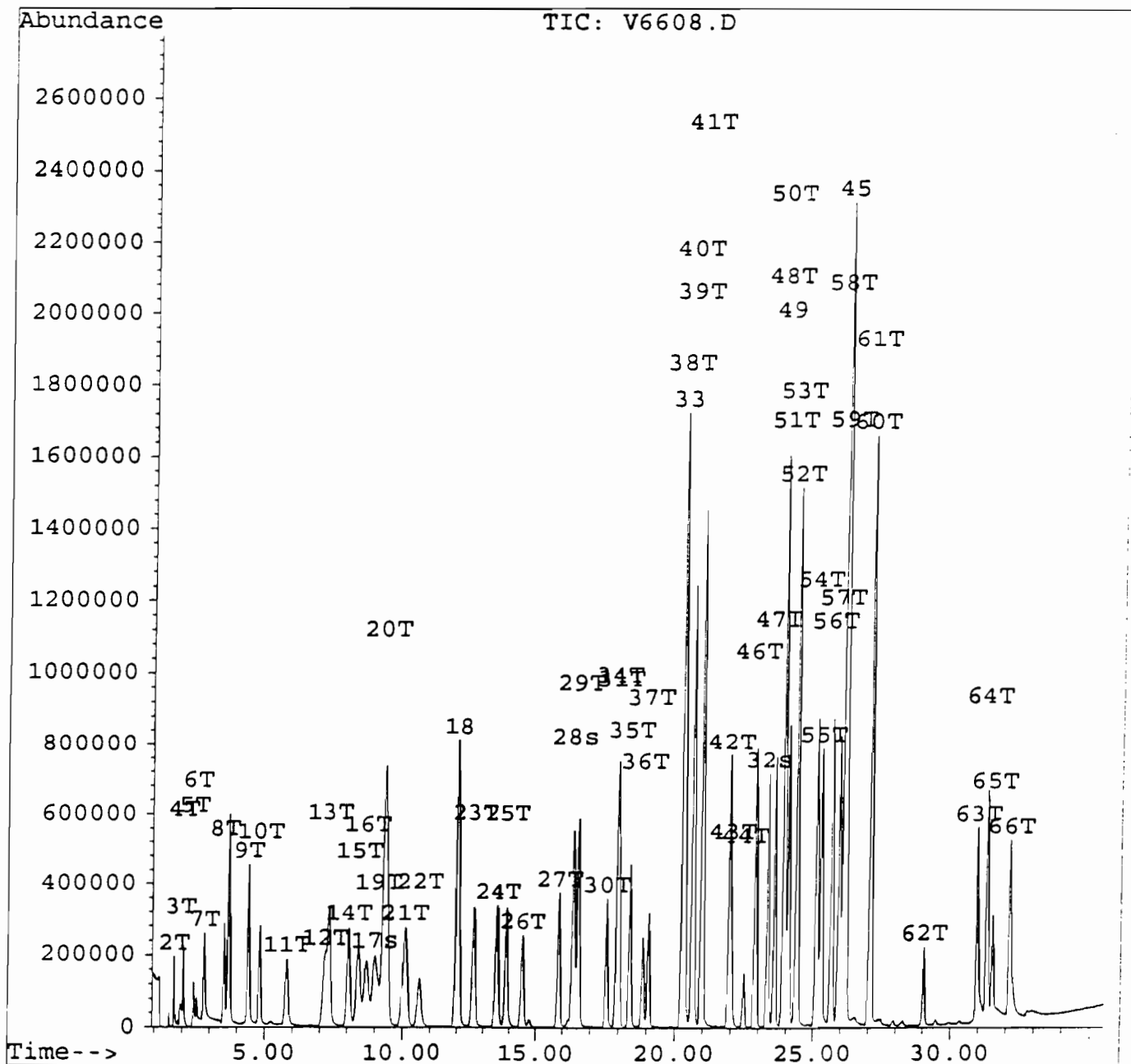
Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
40) ethylbenzene	20.62	91	1948733	21.54	ug/L	99
41) m&p-xylenes	20.96	106	1464955	21.33	ug/L	97
42) o-xylene	21.93	91	1551760	21.55	ug/L	100
43) styrene	22.03	104	357334	20.95	ug/L	99
44) bromoform	22.46	173	204259	20.35	ug/L	99
46) isopropylbenzene	22.87	105	1930852	21.57	ug/L	99
47) bromobenzene	23.57	77	1258104	22.18	ug/L	97
48) 1,1,2,2-tetrachloroethane	23.91	83	953909	23.13	ug/L	100
49) 1,2,3-trichloropropane	23.94	75	715201	25.01	ug/L	95
50) n-propylbenzene	23.90	120	496373	21.32	ug/L	98
51) 2-chlorotoluene	24.08	126	495423	21.49	ug/L	98
52) 4-chlorotoluene	24.39	126	504567	21.63	ug/L	99
53) 1,3,5-trimethylbenzene	24.40	105	1421546	22.02	ug/L	99
54) tert-butylbenzene	25.12	119	1484251	21.42	ug/L	98
55) 1,2,4-trimethylbenzene	25.28	105	1595671	21.76	ug/L	98
56) sec-butylbenzene	25.66	105	2375815	21.51	ug/L	99
57) 1,3-dichlorobenzene	25.92	146	1033876	21.40	ug/L	99
58) 4-isopropyltoluene	26.07	119	1808566	21.46	ug/L	100
59) 1,4-dichlorobenzene	26.19	146	968223	21.00	ug/L	98
60) 1,2-dichlorobenzene	27.06	146	952208	21.27	ug/L	98
61) n-butylbenzene	27.07	91	1959458	21.71	ug/L	99
62) 1,2-dibromo-3-chloropropan	29.03	75	195397	22.23	ug/L	92
63) 1,2,4-trichlorobenzene	30.96	180	685712	19.83	ug/L	100
64) hexachlorobutadiene	31.32	225	441138	20.70	ug/L	99
65) naphthalene	31.53	128	1000200	16.62	ug/L	99
66) 1,2,3-trichlorobenzene	32.13	180	623985	20.29	ug/L	99

Quantitation Report

Data File : E:\HPCHEM\1\DATA\V6608.D
 Acq Time : 25 Sep 97 12:48 pm
 Sample : 20PPB VOA W 8260 ICC
 Misc : 5ML
 Quant Time: Sep 25 14:46 1997

Operator: RC
 Inst : 5971 -
 Multiplr: 1.00

Method : D:\HPCHEM\1\METHODS\8260RUNW.M
 Title : 524.2 Purgable Organics
 Last Update : Thu Sep 25 17:02:16 1997
 Response via : Single Level Calibration



Quantitation Report

Data File : E:\HPCHEM\1\DATA\V6609.D
 Acq Time : 25 Sep 97 1:29 pm
 Sample : 50PPB VOA W 8260 ICC
 Misc : SML
 Quant Time: Sep 25 14:43 1997

Operator: RC
 Inst : 5971 - Ir
 Multiplr: 1.00

Method : D:\HPCHEM\1\METHODS\8260RUNW.M
 Title : 524.2 Purgable Organics
 Last Update : Thu Sep 25 17:02:16 1997
 Response via : Multiple Level Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	9.38	168	2036211	50.00	ug/L	0.10
18) 1,4-Difluorobenzene	12.03	114	3114755	50.00	ug/L	0.10
33) Chlorobenzene-d5	20.27	117	3021863	50.00	ug/L	0.26
45) 1,4-dichlorobenzene-d4	26.12	152	1608450	50.00	ug/L	0.10

System Monitoring Compounds						%Recovery
17) Dibromofluoromethane	8.99	113	1426145	49.54	ug/L	99.08%
28) Toluene-d8	16.38	98	3423888	54.81	ug/L	109.62%
32) 4-Bromofluorobenzene	23.31	95	2185159	48.09	ug/L	96.17%

Target Compounds						Qvalue
2) dichlorodifluoromethane	1.71	85	760027	48.49	ug/L	98
3) chloromethane	1.96	50	774143	47.17	ug/L	100
4) vinyl chloride	2.04	62	762245	49.97	ug/L	99
5) bromomethane	2.42	94	321893	54.57	ug/L	99
6) chloroethane	2.54	64	189759	57.11	ug/L	94
7) trichlorofluoromethane	2.79	101	1196329	77.54	ug/L	98
8) 1,1-dichloroethene	3.53	61	1166538	58.04	ug/L	96
9) methylene chloride	4.42	84	1035556	51.65	ug/L	98
10) trans-1,2-dichloroethene	4.82	61	1187778	50.65	ug/L	98
11) 1,1-dichloroethane	5.80	63	1995918	52.54	ug/L	99
12) 2,2-dichloropropane	7.19	77	1626573	50.59	ug/L	99
13) cis-1,2-dichloroethene	7.33	61	2254887	50.61	ug/L	95
14) bromochloromethane	8.06	49	1744129	50.04	ug/L	98
15) chloroform	8.42	83	2207005	49.90	ug/L	98
16) 1,1,1-trichloroethane	8.70	97	1722306	50.71	ug/L	98
19) carbon tetrachloride	9.13	117	952566	50.14	ug/L	98
20) 1,1-dichloropropene	9.34	75	1741234	50.04	ug/L	99
21) benzene	10.09	78	3253750	50.68	ug/L	99
22) 1,2-dichloroethane	10.62	62	1335907	48.63	ug/L	99
23) trichloroethene	12.63	130	1205484	50.06	ug/L	98
24) 1,2-dichloropropane	13.51	63	1478846	51.52	ug/L	97
25) dibromomethane	13.89	174	1114925	46.51	ug/L	95
26) bromodichloromethane	14.50	83	1598595	51.85	ug/L	98
27) cis-1,3-dichloropropene	15.86	75	1890749	53.00	ug/L	99
29) toluene	16.56	91	3766028	54.99	ug/L	99
30) trans-1,3-dichloropropene	17.57	75	1544718	52.87	ug/L	99
31) 1,1,2-trichloroethane	18.00	97	1178715	51.80	ug/L	99
34) tetrachloroethene	17.95	166	1339842	51.97	ug/L	99
35) 1,3-dichloropropane	18.40	76	2081294	53.68	ug/L	99
36) dibromochloromethane	18.88	129	1057028	51.11	ug/L	97
37) 1,2-dibromoethane	19.08	107	1822509	51.07	ug/L	99
38) chlorobenzene	20.34	112	2726339	50.42	ug/L	99
39) 1,1,1,2-tetrachloroethane	20.65	133	1219241	48.61	ug/L	97

(#) = qualifier out of range (m) = manual integration
 V6609.D 8260RUNW.M Fri Oct 24 13:34:12 1997

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000087

Quantitation Report

Data File : E:\HPCHEM\1\DATA\V6609.D
 Acq Time : 25 Sep 97 1:29 pm
 Sample : 50PPB VOA W 8260 ICC
 Misc : 5ML
 Quant Time: Sep 25 14:43 1997

Operator: RC
 Inst : 5971 - In
 Multiplr: 1.00

Method : D:\HPCHEM\1\METHODS\8260RUNW.M
 Title : 524.2 Purgable Organics
 Last Update : Thu Sep 25 17:02:16 1997
 Response via : Multiple Level Calibration

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
40) ethylbenzene	20.63	91	4624259	51.26	ug/L	100
41) m&p-xylenes	20.96	106	3509973	51.01	ug/L	99
42) o-xylene	21.94	91	3681224	50.68	ug/L	99
43) styrene	22.03	104	871708	50.48	ug/L	98
44) bromoform	22.46	173	513146	43.62	ug/L	99
46) isopropylbenzene	22.87	105	4607367	51.89	ug/L	100
47) bromobenzene	23.56	77	2919531	50.70	ug/L	99
48) 1,1,2,2-tetrachloroethane	23.91	83	2123121	40.76	ug/L	100
49) 1,2,3-trichloropropane	23.94	75	1472288	37.12	ug/L	97
50) n-propylbenzene	23.90	120	1198316	51.88	ug/L	94
51) 2-chlorotoluene	24.08	126	1186774	50.77	ug/L	98
52) 4-chlorotoluene	24.38	126	1200960	50.49	ug/L	95
53) 1,3,5-trimethylbenzene	24.38	105	3323206	51.47	ug/L	99
54) tert-butylbenzene	25.11	119	3566962	51.62	ug/L	99
55) 1,2,4-trimethylbenzene	25.28	105	3775064	50.62	ug/L	98
56) sec-butylbenzene	25.66	105	5686902	51.67	ug/L	99
57) 1,3-dichlorobenzene	25.92	146	2487589	50.34	ug/L	99
58) 4-isopropyltoluene	26.06	119	4337679	51.54	ug/L	99
59) 1,4-dichlorobenzene	26.18	146	2373216	50.33	ug/L	99
60) 1,2-dichlorobenzene	27.06	146	2304835	49.19	ug/L	100
61) n-butylbenzene	27.06	91	4647156	52.88	ug/L	99
62) 1,2-dibromo-3-chloropropan	29.04	75	452521	32.61	ug/L	98
63) 1,2,4-trichlorobenzene	30.96	180	1779989	53.61	ug/L	99
64) hexachlorobutadiene	31.32	225	1097215	51.28	ug/L	99
65) naphthalene	31.52	128	3098713	42.32	ug/L	99
66) 1,2,3-trichlorobenzene	32.13	180	1583395	50.75	ug/L	97

(#) = qualifier out of range (m) = manual integration
 V6609.D 8260RUNW.M Fri Oct 24 13:34:14 1997

5971 INST Page 2

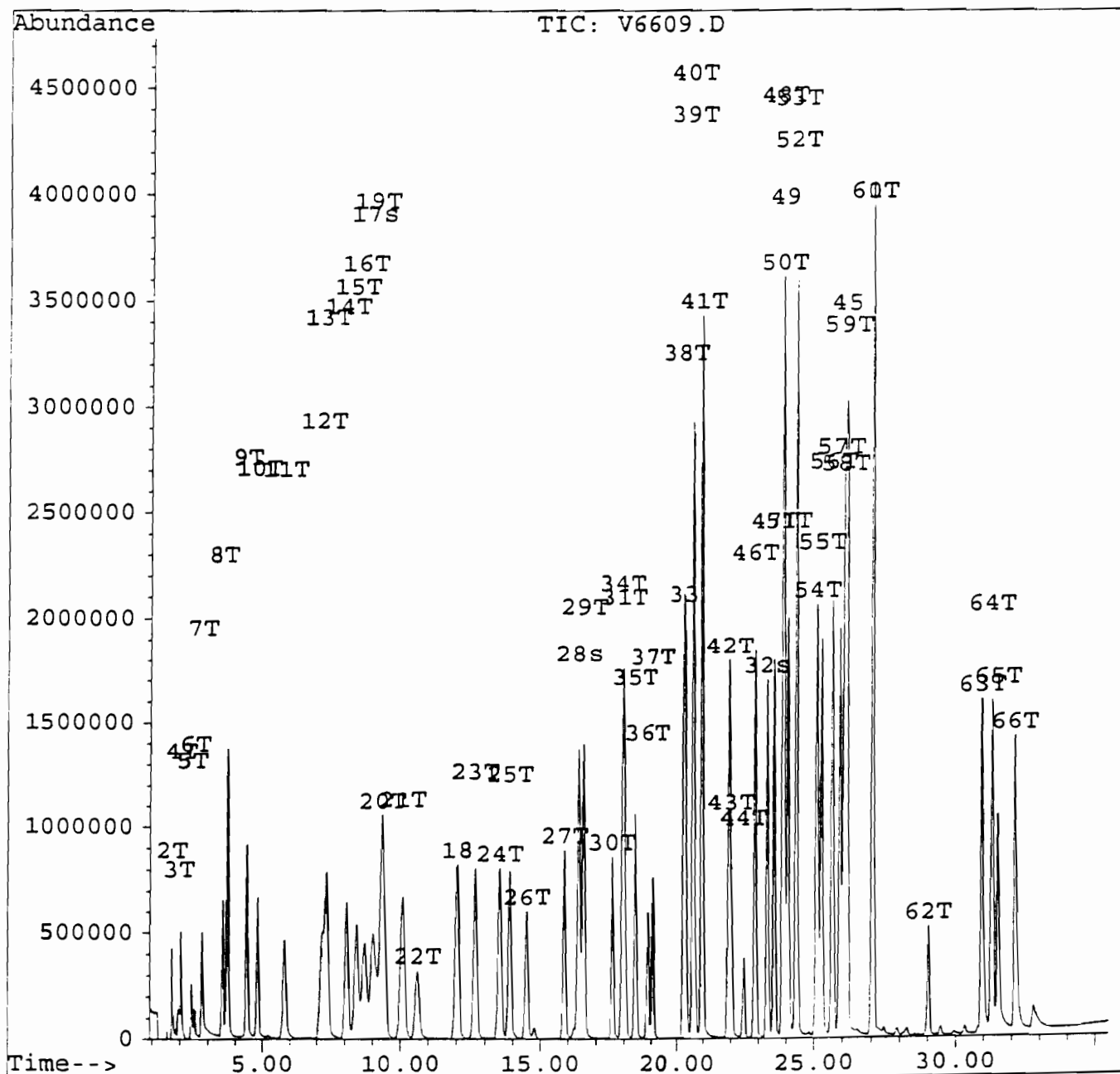
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Quantitation Report

Data File : E:\HPCHEM\1\DATA\V6609.D
 Acq Time : 25 Sep 97 1:29 pm
 Sample : 50PPB VOA W 8260 ICC
 Misc : 5ML
 Quant Time: Sep 25 14:43 1997

Operator: RC
 Inst : 5971 - I
 Multiplr: 1.00

Method : D:\HPCHEM\1\METHODS\8260RUNW.M
 Title : 524.2 Purgable Organics
 Last Update : Thu Sep 25 17:02:16 1997
 Response via : Multiple Level Calibration



Quantitation Report

Data File : E:\HPCHEM\1\DATA\V6610.D
 Acq Time : 25 Sep 97 2:14 pm
 Sample : 5PPB VOA W 8260 ICC
 Misc : 5ML
 Quant Time: Sep 25 16:53 1997

Operator: RC
 Inst : 5971 - In
 Multiplr: 1.00

Method : D:\HPCHEM\1\METHODS\8260RUNW.M
 Title : 524.2 Purgable Organics
 Last Update : Thu Sep 25 17:02:16 1997
 Response via : Single Level Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	9.36	168	2079910	50.00	ug/L	0.08
18) 1,4-Difluorobenzene	12.00	114	3162289	50.00	ug/L	0.08
33) Chlorobenzene-d5	20.27	117	3092735	50.00	ug/L	0.26
45) 1,4-dichlorobenzene-d4	26.12	152	1580344	50.00	ug/L	0.10
						%Recovery
System Monitoring Compounds	8.96	113	148414	5.09	ug/L	10.19%
17) Dibromofluoromethane	16.37	98	374353	5.38	ug/L	10.77%
28) Toluene-d8	23.31	95	254321	5.73	ug/L	11.46%
32) 4-Bromofluorobenzene						
						Qvalue
Target Compounds	1.71	85	70714	4.55	ug/L	98
2) dichlorodifluoromethane	1.92	50	82560	5.22	ug/L	99
3) chloromethane	2.03	62	71867	4.62	ug/L	98
4) vinyl chloride	2.41	94	38360	5.83	ug/L	97
5) bromomethane	2.54	64	29904	7.71	ug/L	98
6) chloroethane	2.81	101	135422	5.54	ug/L	98
7) trichlorofluoromethane	3.52	61	121472	5.10	ug/L	94
8) 1,1-dichloroethene	4.41	84	211408	9.99	ug/L m	98
9) methylene chloride	4.81	61	122990	5.07	ug/L	100
10) trans-1,2-dichloroethene	5.77	63	205821	5.05	ug/L	98
11) 1,1-dichloroethane	7.16	77	175285	5.27	ug/L	95
12) 2,2-dichloropropane	7.32	61	241666	5.25	ug/L	95
13) cis-1,2-dichloroethene	8.04	49	204101	5.73	ug/L	99
14) bromochloromethane	8.39	83	244387	5.42	ug/L	99
15) chloroform	8.70	97	175066	4.98	ug/L m	94
16) 1,1,1-trichloroethane	9.11	117	90516	4.68	ug/L	87
19) carbon tetrachloride	9.35	75	342981	9.70	ug/L m	76
20) 1,1-dichloropropene	10.05	78	356999	5.40	ug/L	96
21) benzene	10.60	62	150906	5.56	ug/L	98
22) 1,2-dichloroethane	12.62	130	132171	5.40	ug/L	97
23) trichloroethene	13.50	63	165816	5.52	ug/L	95
24) 1,2-dichloropropane	13.85	174	132487	5.85	ug/L	95
25) dibromomethane	14.49	83	172783	5.32	ug/L	98
26) bromodichloromethane	15.85	75	208605	5.43	ug/L	100
27) cis-1,3-dichloropropene	16.55	91	441305	5.77	ug/L	97
29) toluene	17.56	75	177027	5.64	ug/L	96
30) trans-1,3-dichloropropene	18.00	97	151882	6.35	ug/L	99
31) 1,1,2-trichloroethane	17.93	166	146563	5.34	ug/L	98
34) tetrachloroethene	18.41	76	260069	6.10	ug/L	99
35) 1,3-dichloropropane	18.86	129	118574	5.48	ug/L	100
36) dibromochloromethane	19.07	107	232843	6.24	ug/L	100
37) 1,2-dibromoethane	20.34	112	300475	5.38	ug/L	98
38) chlorobenzene	20.64	133	137827	5.52	ug/L	98
39) 1,1,1,2-tetrachloroethane						

(#) = qualifier out of range (m) = manual integration
 V6610.D 8260RUNW.M Fri Oct 24 13:34:45 1997

5971 INST Page 1

000090

Quantitation Report

Data File : E:\HPCHEM\1\DATA\V6610.D

Acq Time : 25 Sep 97 2:14 pm

Sample : 5PPB VOA W 8260 ICC

Misc : 5ML

Quant Time: Sep 25 16:53 1997

Operator: RC

Inst : 5971 - In

Multiplr: 1.00

Method : D:\HPCHEM\1\METHODS\8260RUNW.M

Title : 524.2 Purgable Organics

Last Update : Thu Sep 25 17:02:16 1997

Response via : Single Level Calibration

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
40) ethylbenzene	20.63	91	518551	5.48	ug/L	98
41) m&p-xylenes	20.95	106	386773	5.38	ug/L	96
42) o-xylene	21.93	91	423228	5.62	ug/L	99
43) styrene	22.01	104	93912	5.26	ug/L	98
46) isopropylbenzene	22.87	105	498618	5.51	ug/L	98
47) bromobenzene	23.56	77	351486	6.13	ug/L	98
48) 1,1,2,2-tetrachloroethane	23.89	83	352842	8.46	ug/L	99
49) 1,2,3-trichloropropane	23.93	75	271636	9.39	ug/L	97
50) n-propylbenzene	23.89	120	127166	5.40	ug/L	93
51) 2-chlorotoluene	24.07	126	131880	5.66	ug/L	97
52) 4-chlorotoluene	24.38	126	137051	5.81	ug/L	98
53) 1,3,5-trimethylbenzene	24.38	105	366484	5.61	ug/L	99
54) tert-butylbenzene	25.11	119	386055	5.51	ug/L	97
55) 1,2,4-trimethylbenzene	25.28	105	433999	5.85	ug/L	100
56) sec-butylbenzene	25.66	105	628632	5.63	ug/L	99
57) 1,3-dichlorobenzene	25.91	146	291456	5.96	ug/L	98
58) 4-isopropyltoluene	26.06	119	471574	5.53	ug/L	99
59) 1,4-dichlorobenzene	26.18	146	274312	5.88	ug/L	97
60) 1,2-dichlorobenzene	27.05	146	285708	6.31	ug/L	99
61) n-butylbenzene	27.06	91	532500	5.83	ug/L	99
62) 1,2-dibromo-3-chloropropan	29.03	75	96616	10.87	ug/L m	91
63) 1,2,4-trichlorobenzene	30.96	180	280443	8.02	ug/L	98
64) hexachlorobutadiene	31.31	225	127962	5.93	ug/L	96
65) naphthalene	31.51	128	515775	8.47	ug/L m	99
66) 1,2,3-trichlorobenzene	32.13	180	250101	8.04	ug/L m	100

(#) = qualifier out of range (m) = manual integration

V6610.D 8260RUNW.M

Fri Oct 24 13:34:48 1997

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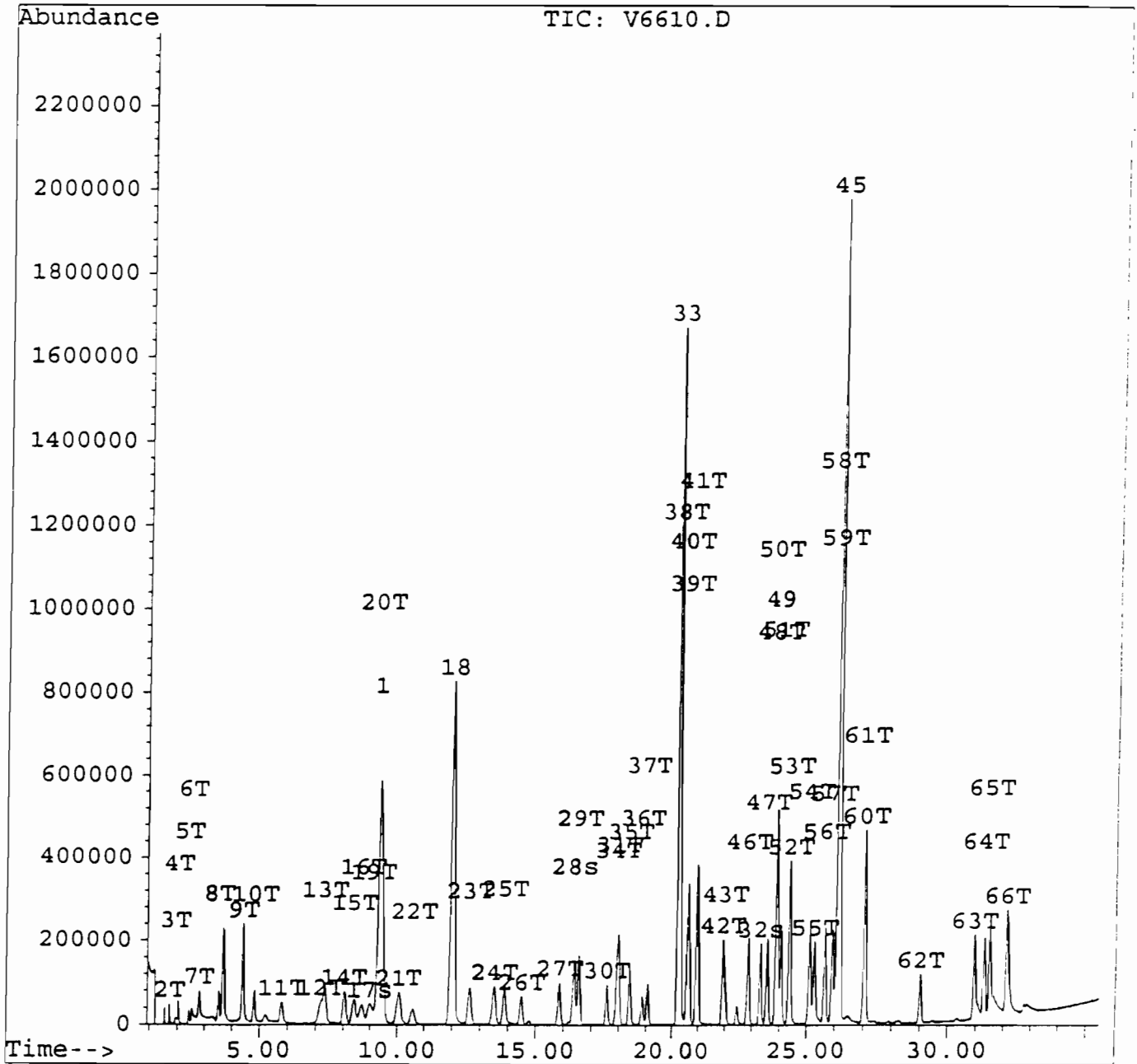
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Quantitation Report

Data File : E:\HPCHEM\1\DATA\V6610.D
 Acq Time : 25 Sep 97 2:14 pm
 Sample : 5PPB VOA W 8260 ICC
 Misc : 5ML
 Quant Time: Sep 25 16:53 1997

Operator: RC
 Inst : 5971 - In
 Multiplr: 1.00

Method : D:\HPCHEM\1\METHODS\8260RUNW.M
 Title : 524.2 Purgable Organics
 Last Update : Thu Sep 25 17:02:16 1997
 Response via : Single Level Calibration



Quantitation Report

Data File : E:\HPCHEM\1\DATA\V6611.D
 Acq Time : 25 Sep 97 2:56 pm
 Sample : 100PPB VOA W 8260 ICC
 Misc : SML
 Quant Time: Sep 25 16:49 1997

Operator: RC
 Inst : 5971 - In
 Multiplr: 1.00

Method : D:\HPCHEM\1\METHODS\8260RUNW.M
 Title : 524.2 Purgable Organics
 Last Update : Thu Sep 25 17:02:16 1997
 Response via : Multiple Level Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	9.39	168	1920636	50.00	ug/L	0.11
18) 1,4-Difluorobenzene	12.02	114	3059273	50.00	ug/L	0.09
33) Chlorobenzene-d5	20.27	117	2988609	50.00	ug/L	0.26
45) 1,4-dichlorobenzene-d4	26.12	152	1605235	50.00	ug/L	0.10

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	%Recovery
17) Dibromofluoromethane	8.99	113	2706080	117.87	ug/L	235.74%
28) Toluene-d8	16.37	98	6615374	114.30	ug/L	228.61%
32) 4-Bromofluorobenzene	23.31	95	4168313	109.75	ug/L	219.49%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) dichlorodifluoromethane	1.70	85	1541619	129.36	ug/L	99
3) chloromethane	1.95	50	1560506	124.02	ug/L m	42
4) vinyl chloride	2.03	62	1531800	127.40	ug/L	99
5) bromomethane	2.41	94	584225	106.95	ug/L	100
6) chloroethane	2.53	64	339451	93.39	ug/L m	98
7) trichlorofluoromethane	2.78	101	1707696	82.27	ug/L m	97
8) 1,1-dichloroethene	3.51	61	2243380	117.83	ug/L	97
9) methylene chloride	4.42	84	2029318	92.72	ug/L	99
10) trans-1,2-dichloroethene	4.81	61	2350720	122.77	ug/L	98
11) 1,1-dichloroethane	5.80	63	3953472	126.04	ug/L	99
12) 2,2-dichloropropane	7.19	77	3249436	122.80	ug/L	99
13) cis-1,2-dichloroethene	7.35	61	4459358	121.19	ug/L	98
14) bromochloromethane	8.06	49	3378223	116.05	ug/L	100
15) chloroform	8.43	83	4429422	123.14	ug/L	100
16) 1,1,1-trichloroethane	8.70	97	3455446	141.32	ug/L	99
19) carbon tetrachloride	9.12	117	2201155	149.51	ug/L	98
20) 1,1-dichloropropene	9.34	75	3250109	87.03	ug/L	97
21) benzene	10.07	78	6446148	117.09	ug/L	100
22) 1,2-dichloroethane	10.60	62	2628088	114.26	ug/L	99
23) trichloroethene	12.64	130	2444805	120.09	ug/L	99
24) 1,2-dichloropropane	13.51	63	2916908	115.11	ug/L	98
25) dibromomethane	13.88	174	2236371	116.35	ug/L	99
26) bromodichloromethane	14.49	83	3171566	117.52	ug/L	100
27) cis-1,3-dichloropropene	15.85	75	3743769	116.39	ug/L	99
29) toluene	16.56	91	7427953	114.13	ug/L	98
30) trans-1,3-dichloropropene	17.57	75	3067046	115.03	ug/L	98
31) 1,1,2-trichloroethane	18.01	97	2268797	107.83	ug/L	100
34) tetrachloroethene	17.94	166	2762659	122.09	ug/L	99
35) 1,3-dichloropropane	18.40	76	4062970	109.19	ug/L	99
36) dibromochloromethane	18.87	129	2133448	117.77	ug/L	98
37) 1,2-dibromoethane	19.08	107	3499775	108.26	ug/L	98
38) chlorobenzene	20.34	112	5402477	116.04	ug/L	98
39) 1,1,1,2-tetrachloroethane	20.65	133	2531989	121.51	ug/L	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : E:\HPCHEM\1\DATA\V6611.D
Acq Time : 25 Sep 97 2:56 pm
Sample : 100PPB VOA W 8260 ICC
Misc : 5ML
Quant Time: Sep 25 16:49 1997

Operator: RC
Inst : 5971 - I
Multiplr: 1.00

Method : D:\HPCHEM\1\METHODS\8260RUNW.M
Title : 524.2 Purgable Organics
Last Update : Thu Sep 25 17:02:16 1997
Response via : Multiple Level Calibration

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
40) ethylbenzene	20.62	91	8889009	111.07	ug/L	97
41) m&p-xylenes	20.96	106	6931170	114.97	ug/L	92
42) o-xylene	21.93	91	7164865	111.86	ug/L m	91
43) styrene	22.03	104	1728100	116.82	ug/L	98
44) bromoform	22.46	173	1040795	117.64	ug/L	99
46) isopropylbenzene	22.87	105	9011981	111.81	ug/L	99
47) bromobenzene	23.56	77	5612717	106.16	ug/L	97
48) 1,1,2,2-tetrachloroethane	23.91	83	3824398	90.18	ug/L	98
49) 1,2,3-trichloropropane	23.93	75	2700375	86.44	ug/L	94
50) n-propylbenzene	23.90	120	2392255	115.13	ug/L	88
51) 2-chlorotoluene	24.08	126	2390544	114.68	ug/L	96
52) 4-chlorotoluene	24.38	126	2379160	111.85	ug/L	92
53) 1,3,5-trimethylbenzene	24.38	105	6433756	109.30	ug/L m	82
54) tert-butylbenzene	25.11	119	7035729	113.07	ug/L	97
55) 1,2,4-trimethylbenzene	25.27	105	7347145	109.43	ug/L	99
56) sec-butylbenzene	25.66	105	11077250	110.98	ug/L	98
57) 1,3-dichlorobenzene	25.92	146	4965035	112.52	ug/L	98
58) 4-isopropyltoluene	26.06	119	8568556	113.04	ug/L	97
59) 1,4-dichlorobenzene	26.18	146	4781423	114.77	ug/L	98
60) 1,2-dichlorobenzene	27.05	146	4562723	110.44	ug/L	99
61) n-butylbenzene	27.05	91	8918605	108.10	ug/L	96
62) 1,2-dibromo-3-chloropropan	29.03	75	805413	81.75	ug/L	97
63) 1,2,4-trichlorobenzene	30.95	180	3717500	112.37	ug/L	99
64) hexachlorobutadiene	31.31	225	2329259	121.39	ug/L	99
65) naphthalene	31.51	128	6303112	105.47	ug/L	100
66) 1,2,3-trichlorobenzene	32.12	180	3184052	97.61	ug/L	99

(#) = qualifier out of range (m) = manual integration

V6611.D 8260RUNW.M

Fri Oct 24 13:35:22 1997

5971 INST

Page 2

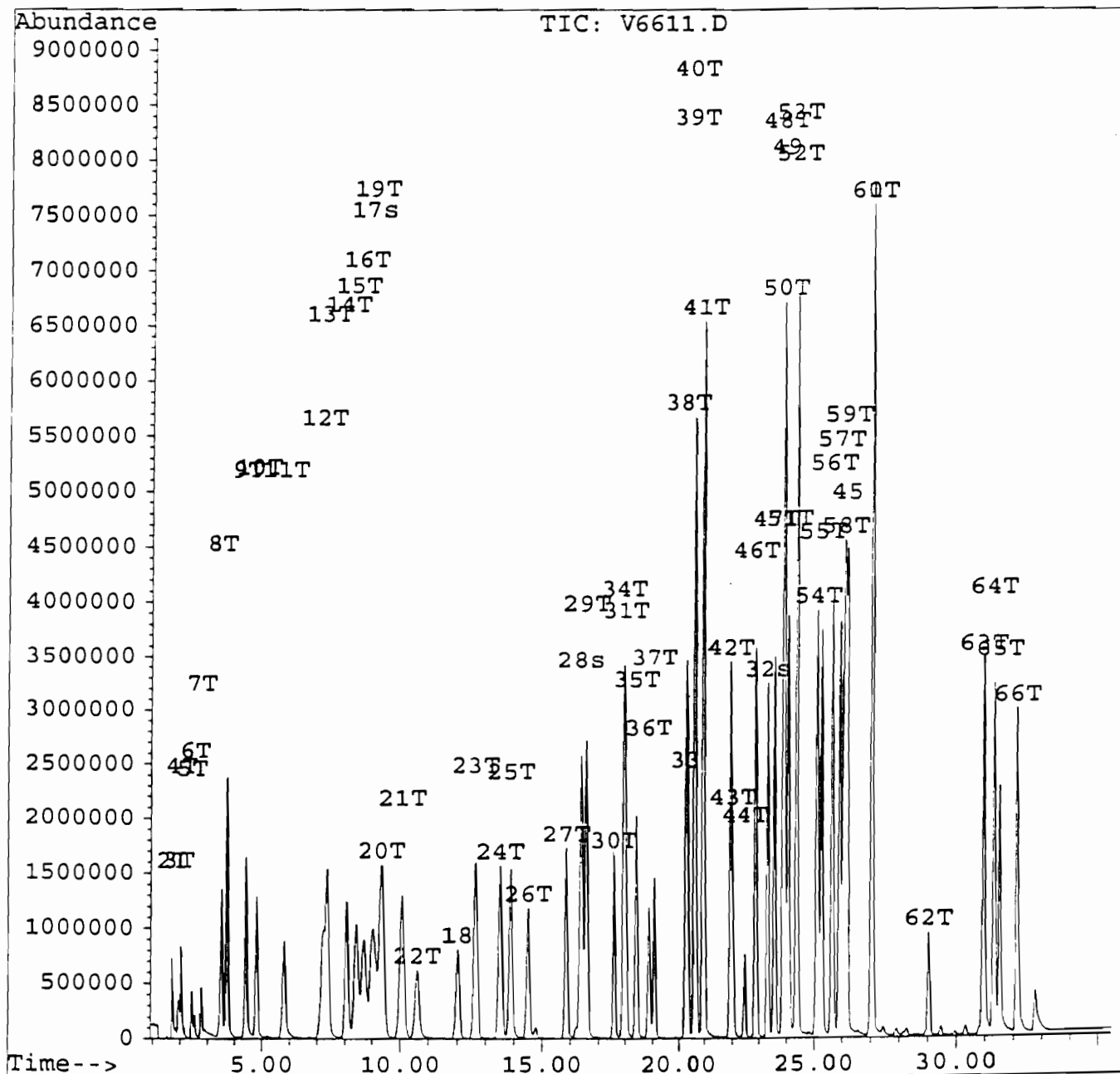
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Quantitation Report

Data File : E:\HPCHEM\1\DATA\V6611.D
 Acq Time : 25 Sep 97 2:56 pm
 Sample : 100PPB VOA W 8260 ICC
 Misc : 5ML
 Quant Time: Sep 25 16:49 1997

Operator: RC
 Inst : 5971 - 1
 Multiplr: 1.00

Method : D:\HPCHEM\1\METHODS\8260RUNW.M
 Title : 524.2 Purgable Organics
 Last Update : Thu Sep 25 17:02:16 1997
 Response via : Multiple Level Calibration



Quantitation Report

Data File : E:\HPCHEM\1\DATA\V6612.D

Acq Time : 25 Sep 97 3:37 pm

Sample : 200PPB VOA W 8260 ICC

Misc : SML

Quant Time: Sep 25 16:48 1997

Operator: RC

Inst : 5971 - In

Multiplr: 1.00

Method : D:\HPCHEM\1\METHODS\8260RUNW.M

Title : 524.2 Purgable Organics

Last Update : Thu Sep 25 17:02:16 1997

Response via : Single Level Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	9.39	168	2080944	50.00	ug/L	0.10
18) 1,4-Difluorobenzene	12.02	114	3226229	50.00	ug/L	0.10
33) Chlorobenzene-d5	20.32	117	3067765	50.00	ug/L	0.31
45) 1,4-dichlorobenzene-d4	26.14	152	1661406	50.00	ug/L	0.12

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	%Recovery
17) Dibromofluoromethane	9.01	113	5608723	192.41	ug/L	384.82%
28) Toluene-d8	16.38	98	12994305	183.20	ug/L	366.41%
32) 4-Bromofluorobenzene	23.34	95	8037749	177.56	ug/L	355.12%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) dichlorodifluoromethane	1.70	85	2973286	191.40	ug/L	99
3) chloromethane	1.98	50	3093065	195.48	ug/L m	42
4) vinyl chloride	2.03	62	2973783	190.87	ug/L	99
5) bromomethane	2.41	94	849047	129.05	ug/L	96
6) chloroethane	2.53	64	568393	146.55	ug/L m	94
7) trichlorofluoromethane	2.78	101	2423817	99.12	ug/L m	99
8) 1,1-dichloroethene	3.48	61	3727881	156.35	ug/L	95
9) methylene chloride	4.42	84	3864985	182.60	ug/L m	95
10) trans-1,2-dichloroethene	4.80	61	4447005	183.17	ug/L	96
11) 1,1-dichloroethane	5.80	63	7786176	190.86	ug/L	99
12) 2,2-dichloropropane	7.19	77	6259858	188.29	ug/L	100
13) cis-1,2-dichloroethene	7.35	61	8619226	187.01	ug/L	98
14) bromochloromethane	8.07	49	6360839	178.43	ug/L	94
15) chloroform	8.43	83	8675457	192.32	ug/L	98
16) 1,1,1-trichloroethane	8.69	97	6784005	192.71	ug/L	98
19) carbon tetrachloride	9.11	117	3628846	183.90	ug/L	96
20) 1,1-dichloropropene	9.32	75	6167214	170.97	ug/L	94
21) benzene	10.07	78	12680796	188.13	ug/L	100
22) 1,2-dichloroethane	10.61	62	5126992	185.26	ug/L	100
23) trichloroethene	12.64	130	4932997	197.54	ug/L	96
24) 1,2-dichloropropane	13.52	63	5600310	182.80	ug/L	97
25) dibromomethane	13.89	174	4652572	201.44	ug/L	94
26) bromodichloromethane	14.50	83	6202201	187.29	ug/L	100
27) cis-1,3-dichloropropene	15.86	75	7279261	185.85	ug/L	99
29) toluene	16.56	91	14147201	181.34	ug/L	96
30) trans-1,3-dichloropropene	17.59	75	5668056	177.13	ug/L	99
31) 1,1,2-trichloroethane	18.05	97	4226649	173.10	ug/L	96
34) tetrachloroethene	17.97	166	5386761	198.01	ug/L	99
35) 1,3-dichloropropane	18.46	76	7628275	180.52	ug/L	99
36) dibromochloromethane	18.94	129	4175212	194.54	ug/L	98
37) 1,2-dibromoethane	19.14	107	6720565	181.62	ug/L	97
38) chlorobenzene	20.39	112	10593999	191.38	ug/L	97
39) 1,1,1,2-tetrachloroethane	20.70	133	5045753	203.83	ug/L	97

(#)=qualifier out of range (m)=manual integration

V6612.D 8260RUNW.M

Fri Oct 24 13:35:54 1997

5971 INST Page 1

000096

Quantitation Report

Data File : E:\HPCHEM\1\DATA\V6612.D
Acq Time : 25 Sep 97 3:37 pm
Sample : 200PPB VOA W 8260 ICC
Misc : 5ML
Quant Time: Sep 25 16:48 1997

Operator: RC
Inst : 5971 - I
Multiplr: 1.00

Method : D:\HPCHEM\1\METHODS\8260RUNW.M
Title : 524.2 Purgable Organics
Last Update : Thu Sep 25 17:02:16 1997
Response via : Single Level Calibration

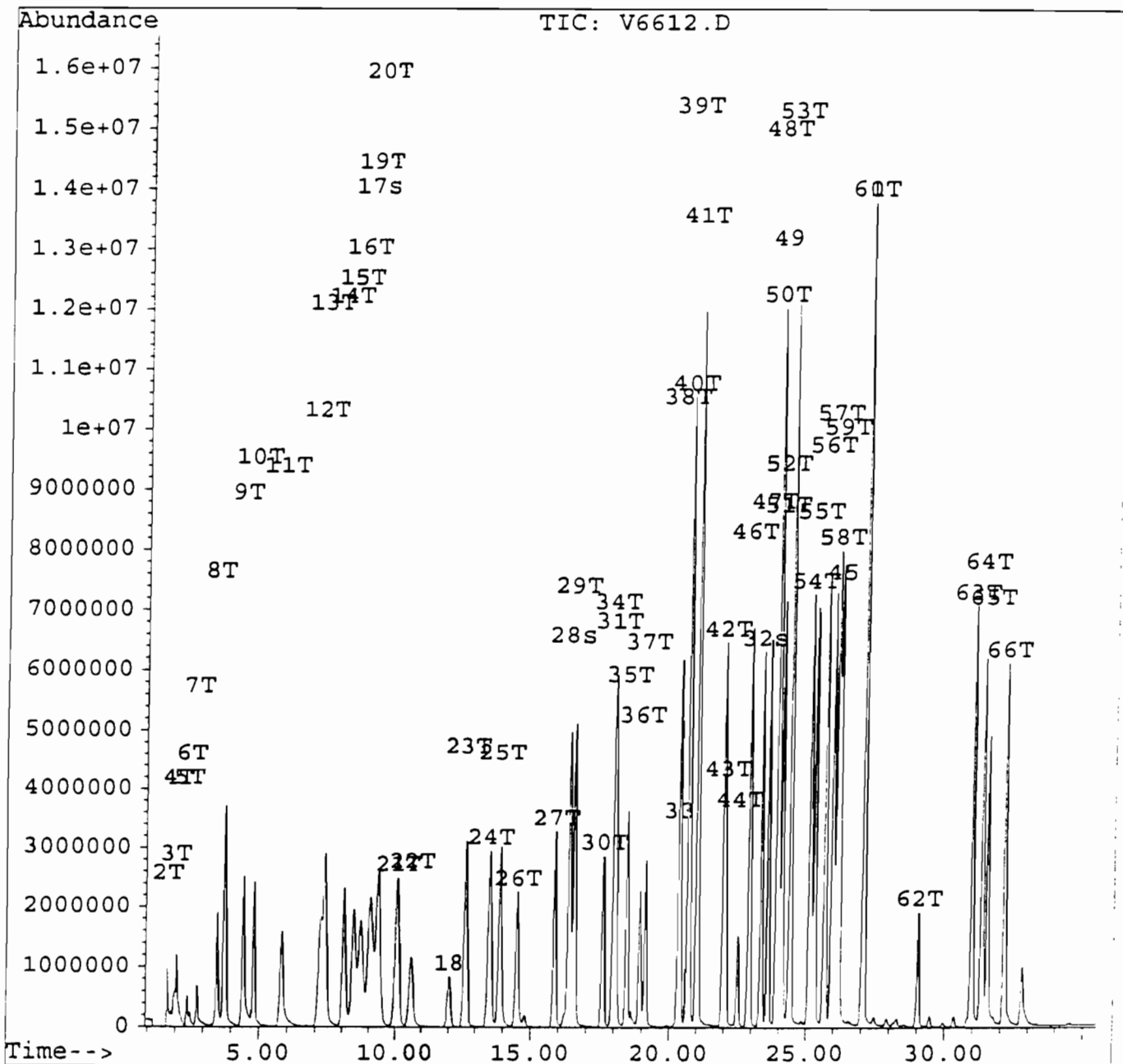
Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
40) ethylbenzene	20.68	91	16264966	173.23	ug/L	94
41) m&p-xylenes	21.01	106	13256949	186.02	ug/L	83
42) o-xylene	21.97	91	13424198	179.61	ug/L m	95
43) styrene	22.06	104	3416346	193.02	ug/L	97
44) bromoform	22.50	173	2174583	208.72	ug/L	100
46) isopropylbenzene	22.89	105	17089612	179.55	ug/L	97
47) bromobenzene	23.59	77	10359920	171.77	ug/L	88
48) 1,1,2,2-tetrachloroethane	23.93	83	7170298	163.48	ug/L m	98
49) 1,2,3-trichloropropane	23.98	75	5808274	190.97	ug/L m	94
50) n-propylbenzene	23.93	120	4603938	185.98	ug/L m	79
51) 2-chlorotoluene	24.11	126	4624787	188.64	ug/L	90
52) 4-chlorotoluene	24.11	126	4624787	186.41	ug/L	82
53) 1,3,5-trimethylbenzene	24.41	105	11888490	173.17	ug/L m	86
54) tert-butylbenzene	25.13	119	13444539	182.45	ug/L	95
55) 1,2,4-trimethylbenzene	25.30	105	13949572	178.87	ug/L	93
56) sec-butylbenzene	25.68	105	20655424	175.82	ug/L	97
57) 1,3-dichlorobenzene	25.94	146	9722442	189.19	ug/L	96
58) 4-isopropyltoluene	26.08	119	16121957	179.91	ug/L	96
59) 1,4-dichlorobenzene	26.20	146	9402116	191.77	ug/L	97
60) 1,2-dichlorobenzene	27.07	146	9009804	189.22	ug/L	95
61) n-butylbenzene	27.07	91	15921568	165.84	ug/L	93
62) 1,2-dibromo-3-chloropropan	29.05	75	1629826	174.34	ug/L	91
63) 1,2,4-trichlorobenzene	30.96	180	7628558	207.46	ug/L	97
64) hexachlorobutadiene	31.32	225	4733446	208.83	ug/L	98
65) naphthalene	31.52	128	12992286	202.96	ug/L	99
66) 1,2,3-trichlorobenzene	32.13	180	6601605	201.82	ug/L	100

Quantitation Report

Data File : E:\HPCHEM\1\DATA\V6612.D
 Acq Time : 25 Sep 97 3:37 pm
 Sample : 200PPB VOA W 8260 ICC
 Misc : SML
 Quant Time: Sep 25 16:48 1997

Operator: RC
 Inst : 5971 - In
 Multiplr: 1.00

Method : D:\HPCHEM\1\METHODS\8260RUNW.M
 Title : 524.2 Purgable Organics
 Last Update : Thu Sep 25 17:02:16 1997
 Response via : Single Level Calibration



7A
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: NEW YORK STATE D.E.C.
 Project No. 5252DEC Site: _____ Location: _____ Group: _____
 Instrument ID: VOA1 Calibration Date: 10/13/97 Time: 1440
 Lab File ID: V6918.D Init. Calib. Date(s): 9/25/97 9/25/97
 Heated Purge: (Y/N) N Init. Calib. Times: 1248 1537
 GC Column: RTX624 ID: 0.53 (mm)

COMPOUND	RRF	RRF50	MIN RRF	%D	MAX %D
Dichlorodifluoromethane	0.372	0.422		-13.4	
Chloromethane	0.392	0.449	0.300	-14.5	
Vinyl Chloride	0.374	0.426		-13.9	25.0
Bromomethane	0.155	0.178		-14.8	
Chloroethane	0.102	0.102		0.0	
Trichlorofluoromethane	0.536	0.565		-5.4	
1,1-Dichloroethene	0.562	0.575		-2.3	25.0
Methylene Chloride	0.624	0.550		11.9	
trans-1,2-Dichloroethene	0.587	0.626		-6.6	
1,1-Dichloroethane	0.982	0.952	0.300	3.1	
2,2-Dichloropropane	0.817	0.837		-2.4	
cis-1,2-dichloroethene	1.130	1.200		-6.1	
Bromochloromethane	0.882	0.904		-2.5	
Chloroform	1.118	1.170		-4.7	25.0
1,1,1-Trichloroethane	0.854	0.914		-7.0	
Carbon Tetrachloride	0.301	0.332		-10.3	
1,1-Dichloropropene	0.667	0.569		14.7	
Benzene	1.060	1.100		-3.8	
1,2-Dichloroethane	0.439	0.458		-4.3	
Trichloroethene	0.398	0.440		-10.6	
1,2-Dichloropropane	0.483	0.505		-4.6	25.0
Dibromomethane	0.376	0.433		-15.2	
Bromodichloromethane	0.519	0.557		-7.3	
cis-1,3-Dichloropropene	0.617	0.644		-4.4	
Toluene	1.240	1.310		-5.6	25.0
trans-1,3-Dichloropropene	0.506	0.534		-5.5	
1,1,2-Trichloroethane	0.394	0.436		-10.7	
Tetrachloroethene	0.455	0.483		-6.2	
1,3-Dichloropropane	0.718	0.724		-0.8	
Dibromochloromethane	0.360	0.372		-3.3	
1,2-Dibromoethane	0.626	0.641		-2.4	
Chlorobenzene	0.918	0.944	0.300	-2.8	
1,1,1,2-Tetrachloroethane	0.421	0.432		-2.6	
Ethylbenzene	1.534	1.539		-0.3	25.0
m&p-xylenes	1.178	1.189		-0.9	
o-xylene	1.238	1.210		2.3	

All other compounds must meet a minimum RRF of 0.010.

Contract: NEW YORK STATE D.E.C.

Group:

Time: 1440

Init. Calib. Date(s): 9/25/97 9/25/97

Init. Calib. Times: 1248 1537

ID: 0.53 (mm)

COMPOUND	RRF	RRF50	MIN RRF	%D	MAX %D
Styrene	0.292	0.295		-1.0	
Bromoform	0.179	0.192	0.250	-7.3	
isopropylbenzene	2.898	2.908		-0.3	
Bromobenzene	1.872	1.834		2.0	
1,1,2,2-Tetrachloroethane	1.470	1.453	0.300	1.2	
1,2,3-Trichloropropane	1.099	1.021		7.1	
n-Propylbenzene	0.756	0.762		-0.8	
2-Chlorotoluene	0.761	0.795		-4.5	
4-Chlorotoluene	0.772	0.794		-2.8	
1,3,5-Trimethylbenzene	2.091	2.117		-1.2	
tert-Butylbenzene	2.250	2.262		-0.5	
1,2,4-Trimethylbenzene	2.407	2.416		-0.4	
sec-Butylbenzene	3.575	3.593		-0.5	
1,3-Dichlorobenzene	1.611	1.632		-1.3	
4-Isopropyltoluene	2.734	2.700		1.2	
1,4-Dichlorobenzene	1.533	1.526		0.5	
1,2-Dichlorobenzene	1.508	1.534		-1.7	
n-Butylbenzene	2.914	2.904		0.3	
1,2-Dibromo-3-chloropropane	0.340	0.323		5.0	
1,2,4-Trichlorobenzene	1.257	1.195		4.9	
Hexachlorobutadiene	0.727	0.696		4.3	
Naphthalene	2.142	2.154		-0.6	
1,2,3-Trichlorobenzene	1.110	1.083		2.4	
Dibromofluoromethane	0.706	0.748		-5.9	
Toluene-d8	1.104	1.093		1.0	
4-Bromofluorobenzene	0.714	0.759		-6.3	

All other compounds must meet a minimum RRF of 0.010.

7A
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: NEW YORK STATE D.E.C.
 Project No. 5252DEC Site: _____ Location: _____ Group: _____
 Instrument ID: VOA1 Calibration Date: 10/14/97 Time: 1404
 Lab File ID: V6936.D Init. Calib. Date(s): 9/25/97 9/25/97
 Heated Purge: (Y/N) N Init. Calib. Times: 1248 1537
 GC Column: RTX624 ID: 0.53 (mm)

COMPOUND	RRF	RRF50	MIN RRF	%D	MAX %D
Dichlorodifluoromethane	0.372	0.381		-2.4	
Chloromethane	0.392	0.429	0.300	-9.4	
Vinyl Chloride	0.374	0.414		-10.7	25.0
Bromomethane	0.155	0.153		1.3	
Chloroethane	0.102	0.084		17.6	
Trichlorofluoromethane	0.536	0.515		3.9	
1,1-Dichloroethene	0.562	0.567		-0.9	25.0
Methylene Chloride	0.624	0.723		-15.9	
trans-1,2-Dichloroethene	0.587	0.595		-1.4	
1,1-Dichloroethane	0.982	0.908	0.300	7.5	
2,2-Dichloropropane	0.817	0.809		1.0	
cis-1,2-dichloroethene	1.130	1.146		-1.4	
Bromochloromethane	0.882	0.886		-0.5	
Chloroform	1.118	1.160		-3.8	25.0
1,1,1-Trichloroethane	0.854	0.857		-0.4	
Carbon Tetrachloride	0.301	0.311		-3.3	
1,1-Dichloropropene	0.667	0.570		14.5	
Benzene	1.060	1.135		-7.1	
1,2-Dichloroethane	0.439	0.452		-3.0	
Trichloroethene	0.398	0.448		-12.6	
1,2-Dichloropropane	0.483	0.516		-6.8	25.0
Dibromomethane	0.376	0.447		-18.9	
Bromodichloromethane	0.519	0.558		-7.5	
cis-1,3-Dichloropropene	0.617	0.661		-7.1	
Toluene	1.240	1.324		-6.8	25.0
trans-1,3-Dichloropropene	0.506	0.552		-9.1	
1,1,2-Trichloroethane	0.394	0.449		-14.0	
Tetrachloroethene	0.455	0.498		-9.5	
1,3-Dichloropropane	0.718	0.752		-4.7	
Dibromochloromethane	0.360	0.391		-8.6	
1,2-Dibromoethane	0.626	0.686		-9.6	
Chlorobenzene	0.918	0.992	0.300	-8.1	
1,1,1,2-Tetrachloroethane	0.421	0.442		-5.0	
Ethylbenzene	1.534	1.602		-4.4	25.0
m&p-xylenes	1.178	1.230		-4.4	
o-xylene	1.238	1.274		-2.9	

All other compounds must meet a minimum RRF of 0.010.

Contract: NEW YORK STATE D.E.C.

Group:

Time: 1404

Init. Calib. Date(s): 9/25/97 9/25/97

Init. Calib. Times: 1248 1537

ID: 0.53 (mm)

COMPOUND	RRF	RRF50	MIN RRF	%D	MAX %D
Styrene	0.292	0.312		-6.8	
Bromoform	0.179	0.203	0.250	-13.4	
isopropylbenzene	2.898	3.016		-4.1	
Bromobenzene	1.872	1.926		-2.9	
1,1,2,2-Tetrachloroethane	1.470	1.554	0.300	-5.7	
1,2,3-Trichloropropane	1.099	1.095		0.4	
n-Propylbenzene	0.756	0.794		-5.0	
2-Chlorotoluene	0.761	0.795		-4.5	
4-Chlorotoluene	0.772	0.815		-5.6	
1,3,5-Trimethylbenzene	2.091	2.164		-3.5	
tert-Butylbenzene	2.250	2.308		-2.6	
1,2,4-Trimethylbenzene	2.407	2.553		-6.1	
sec-Butylbenzene	3.575	3.671		-2.7	
1,3-Dichlorobenzene	1.611	1.714		-6.4	
4-Isopropyltoluene	2.734	2.814		-2.9	
1,4-Dichlorobenzene	1.533	1.625		-6.0	
1,2-Dichlorobenzene	1.508	1.602		-6.2	
n-Butylbenzene	2.914	2.989		-2.6	
1,2-Dibromo-3-chloropropane	0.340	0.336		1.2	
1,2,4-Trichlorobenzene	1.257	1.256		0.1	
Hexachlorobutadiene	0.727	0.731		-0.6	
Naphthalene	2.142	2.428		-13.4	
1,2,3-Trichlorobenzene	1.110	1.148		-3.4	
Dibromofluoromethane	0.706	0.743		-5.2	
Toluene-d8	1.104	1.104		0.0	
4-Bromofluorobenzene	0.714	0.773		-8.3	

All other compounds must meet a minimum RRF of 0.010.

Evaluate Continuing Calibration Report

Data File : E:\HPCHEM\1\DATA\V6918.D

Acq Time : 13 Oct 97 2:40 pm

Sample : 50PPB VOA W CCC

Misc :

Operator:

Inst : 5971 - In

Multiplr: 1.00

Method : D:\HPCHEM\1\METHODS\8260RUNW.M

Title : 524.2 Purgable Organics

Last Update : Thu Sep 25 17:02:16 1997

Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min

Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	AvgRRF	CCRRF	%Dev	Area%	Dev(Min)
1	Pentafluorobenzene	1.000	1.000	0.0	90	0.05
2 T	dichlorodifluoromethane	0.372	0.422	-13.4	101	0.03
3 T	chloromethane	0.392	0.449	-14.5	106	0.03
4 T	vinyl chloride	0.374	0.426	-14.1	102	0.03
5 T	bromomethane	0.155	0.178	-14.8	101	0.03
6 T	chloroethane	0.102	0.102	0.8	98	0.03
7 T	trichlorofluoromethane	0.536	0.565	-5.2	86	0.04
8 T	1,1-dichloroethene	0.562	0.575	-2.2	90	0.03
9 T	methylene chloride	0.624	0.550	11.8	97	0.02
10 T	trans-1,2-dichloroethene	0.587	0.626	-6.6	96	0.03
11 T	1,1-dichloroethane	0.982	0.952	3.0	87	0.03
12 T	2,2-dichloropropane	0.817	0.837	-2.5	94	0.03
13 T	cis-1,2-dichloroethene	1.130	1.200	-6.1	97	0.04
14 T	bromochloromethane	0.882	0.904	-2.5	95	0.04
15 T	chloroform	1.118	1.170	-4.6	97	0.02
16 T	1,1,1-trichloroethane	0.854	0.914	-7.0	97	0.05
17 s	Dibromofluoromethane	0.706	0.748	-5.9	96	0.03
18	1,4-Difluorobenzene	1.000	1.000	0.0	93	0.05
19 T	carbon tetrachloride	0.301	0.332	-10.2	101	0.06
20 T	1,1-dichloropropene	0.667	0.569	14.7	95	0.06
21 T	benzene	1.060	1.100	-3.8	98	0.07
22 T	1,2-dichloroethane	0.439	0.458	-4.4	99	0.03
23 T	trichloroethene	0.398	0.440	-10.6	106	0.07
24 T	1,2-dichloropropane	0.483	0.505	-4.6	99	0.05
25 T	dibromomethane	0.376	0.433	-15.3	113	0.06
26 T	bromodichloromethane	0.519	0.557	-7.3	101	0.06
27 T	cis-1,3-dichloropropene	0.617	0.644	-4.4	99	0.10
28 s	Toluene-d8	1.104	1.093	1.0	93	0.13
29 T	toluene	1.240	1.310	-5.7	101	0.14
30 T	trans-1,3-dichloropropene	0.506	0.534	-5.7	100	0.15
31 T	1,1,2-trichloroethane	0.394	0.436	-10.7	107	0.17
32 s	4-Bromofluorobenzene	0.714	0.759	-6.3	101	0.14
33	Chlorobenzene-d5	1.000	1.000	0.0	99	0.24
34 T	tetrachloroethene	0.455	0.483	-6.1	108	0.21
35 T	1,3-dichloropropane	0.718	0.724	-0.9	104	0.20
36 T	dibromochloromethane	0.360	0.372	-3.5	106	0.22
37 T	1,2-dibromoethane	0.626	0.641	-2.3	106	0.23
38 T	chlorobenzene	0.918	0.944	-2.9	104	0.23
39 T	1,1,1,2-tetrachloroethane	0.421	0.432	-2.8	106	0.21
40 T	ethylbenzene	1.534	1.539	-0.4	100	0.23

(#) = Out of Range

V6918.D 8260RUNW.M

Fri Oct 24 12:44:29 1997

5971 INST

Page 1

000103

Evaluate Continuing Calibration Report

Data File : E:\HPCHEM\1\DATA\V6918.D

Acq Time : 13 Oct 97 2:40 pm

Sample : 50PPB VOA W CCC

Misc :

Operator:

Inst : 5971 - In

Multiplr: 1.00

Method : D:\HPCHEM\1\METHODS\8260RUNW.M

Title : 524.2 Purgable Organics

Last Update : Thu Sep 25 17:02:16 1997

Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min

Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	AvgRRF	CCRRF	%Dev	Area%	Dev(Min)
41 T	m&p-xylenes	1.178	1.189	-0.9	102	0.22
42 T	o-xylene	1.238	1.210	2.3	99	0.18
43 T	styrene	0.292	0.295	-0.8	101	0.18
44 T	bromoform	0.179	0.192	-7.0	112	0.16
45	1,4-dichlorobenzene-d4	1.000	1.000	0.0	97	0.08
46 T	isopropylbenzene	2.898	2.908	-0.4	98	0.15
47 T	bromobenzene	1.872	1.834	2.0	98	0.13
48 T	1,1,2,2-tetrachloroethane	1.470	1.453	1.1	107	0.09
49	1,2,3-trichloropropane	1.099	1.021	7.0	108	0.10
50 T	n-propylbenzene	0.756	0.762	-0.7	99	0.12
51 T	2-chlorotoluene	0.761	0.795	-4.5	104	0.12
52 T	4-chlorotoluene	0.772	0.794	-3.0	103	0.12
53 T	1,3,5-trimethylbenzene	2.091	2.117	-1.2	99	0.13
54 T	tert-butylbenzene	2.250	2.262	-0.5	99	0.10
55 T	1,2,4-trimethylbenzene	2.407	2.416	-0.4	100	0.10
56 T	sec-butylbenzene	3.575	3.593	-0.5	98	0.09
57 T	1,3-dichlorobenzene	1.611	1.632	-1.3	102	0.08
58 T	4-isopropyltoluene	2.734	2.700	1.3	97	0.09
59 T	1,4-dichlorobenzene	1.533	1.526	0.4	100	0.08
60 T	1,2-dichlorobenzene	1.508	1.534	-1.7	104	0.07
61 T	n-butylbenzene	2.914	2.904	0.3	97	0.07
62 T	1,2-dibromo-3-chloropropane	0.340	0.323	5.1	111	0.04
63 T	1,2,4-trichlorobenzene	1.257	1.195	5.0	105	0.04
64 T	hexachlorobutadiene	0.727	0.696	4.3	99	0.03
65 T	naphthalene	2.142	2.154	-0.6	108	0.03
66 T	1,2,3-trichlorobenzene	1.110	1.083	2.4	107	0.03

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

V6918.D 8260RUNW.M

Fri Oct 24 12:44:33 1997

5971 INST

Page 2

000104

Quantitation Report

Data File : E:\HPCHEM\1\DATA\V6918.D
 Acq Time : 13 Oct 97 2:40 pm
 Sample : 50PPB VOA W CCC
 Misc :
 Quant Time: Oct 24 12:43 1997

Operator:
 Inst : 5971 - In
 Multiplr: 1.00

Method : D:\HPCHEM\1\METHODS\8260RUNW.M
 Title : 524.2 Purgable Organics
 Last Update : Thu Sep 25 17:02:16 1997
 Response via : Multiple Level Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	9.34	168	1827627	50.00	ug/L	0.05
18) 1,4-Difluorobenzene	11.98	114	2900602	50.00	ug/L	0.05
33) Chlorobenzene-d5	20.25	117	3000556	50.00	ug/L	0.24
45) 1,4-dichlorobenzene-d4	26.10	152	1558043	50.00	ug/L	0.08

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	%Recovery
17) Dibromofluoromethane	8.93	113	1366231	52.97	ug/L	105.94%
28) Toluene-d8	16.34	98	3168975	49.50	ug/L	99.00%
32) 4-Bromofluorobenzene	23.29	95	2200117	53.14	ug/L	106.28%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) dichlorodifluoromethane	1.71	85	770786	56.71	ug/L m	99
3) chloromethane	1.96	50	820015	57.26	ug/L m	96
4) vinyl chloride	2.04	62	778737	57.03	ug/L m	98
5) bromomethane	2.41	94	324475	57.42	ug/L	98
6) chloroethane	2.53	64	185842	49.61	ug/L	95
7) trichlorofluoromethane	2.79	101	1031864	52.62	ug/L	98
8) 1,1-dichloroethene	3.51	61	1050482	51.12	ug/L	99
9) methylene chloride	4.40	84	1005269	44.09	ug/L	95
10) trans-1,2-dichloroethene	4.80	61	1144958	53.32	ug/L	98
11) 1,1-dichloroethane	5.77	63	1740419	48.50	ug/L	99
12) 2,2-dichloropropane	7.15	77	1530254	51.23	ug/L	98
13) cis-1,2-dichloroethene	7.31	61	2192561	53.07	ug/L	98
14) bromochloromethane	8.02	49	1652137	51.27	ug/L	94
15) chloroform	8.37	83	2138724	52.32	ug/L	99
16) 1,1,1-trichloroethane	8.65	97	1670378	53.52	ug/L	99
19) carbon tetrachloride	9.08	117	962938	55.11	ug/L	97
20) 1,1-dichloropropene	9.28	75	1650870	42.64	ug/L	99
21) benzene	10.02	78	3191213	51.90	ug/L	100
22) 1,2-dichloroethane	10.54	62	1327685	52.18	ug/L	100
23) trichloroethene	12.60	130	1275857	55.29	ug/L	96
24) 1,2-dichloropropane	13.48	63	1465021	52.28	ug/L	98
25) dibromomethane	13.85	174	1256468	57.67	ug/L	95
26) bromodichloromethane	14.45	83	1614986	53.63	ug/L	99
27) cis-1,3-dichloropropene	15.83	75	1867334	52.21	ug/L	99
29) toluene	16.53	91	3799799	52.83	ug/L	99
30) trans-1,3-dichloropropene	17.54	75	1549493	52.84	ug/L	98
31) 1,1,2-trichloroethane	17.97	97	1265207	55.35	ug/L	99
34) tetrachloroethene	17.92	166	1448120	53.06	ug/L	98
35) 1,3-dichloropropane	18.38	76	2173588	50.45	ug/L	100
36) dibromochloromethane	18.84	129	1117084	51.76	ug/L	99
37) 1,2-dibromoethane	19.06	107	1923363	51.16	ug/L	99
38) chlorobenzene	20.31	112	2833556	51.44	ug/L	100
39) 1,1,1,2-tetrachloroethane	20.62	133	1297576	51.40	ug/L	98

(#) = qualifier out of range (m) = manual integration
 V6918.D 8260RUNW.M Fri Oct 24 12:44:58 1997

5971 INST Page 1

000105

Quantitation Report

Data File : E:\HPCHEM\1\DATA\V6918.D

Acq Time : 13 Oct 97 2:40 pm

Sample : 50PPB VOA W CCC

Misc :

Quant Time: Oct 24 12:43 1997

Operator:

Inst : 5971 - I

Multiplr: 1.00

Method : D:\HPCHEM\1\METHODS\8260RUNW.M

Title : 524.2 Purgable Organics

Last Update : Thu Sep 25 17:02:16 1997

Response via : Multiple Level Calibration

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
40) ethylbenzene	20.60	91	4618074	50.18	ug/L	99
41) m&p-xylenes	20.94	106	3567771	50.46	ug/L	96
42) o-xylene	21.91	91	3630117	48.85	ug/L	98
43) styrene	22.00	104	884646	50.42	ug/L	97
44) bromoform	22.44	173	575893	53.50	ug/L	99
46) isopropylbenzene	22.85	105	4531401	50.19	ug/L	99
47) bromobenzene	23.54	77	2858153	49.00	ug/L	95
48) 1,1,2,2-tetrachloroethane	23.88	83	2263927	49.43	ug/L	98
49) 1,2,3-trichloropropane	23.91	75	1591339	46.48	ug/L	96
50) n-propylbenzene	23.87	120	1186885	50.36	ug/L	99
51) 2-chlorotoluene	24.06	126	1238998	52.24	ug/L	92
52) 4-chlorotoluene	24.37	126	1237765	51.48	ug/L	90
53) 1,3,5-trimethylbenzene	24.38	105	3297646	50.62	ug/L m	83
54) tert-butylbenzene	25.10	119	3524790	50.27	ug/L	98
55) 1,2,4-trimethylbenzene	25.26	105	3764502	50.19	ug/L	99
56) sec-butylbenzene	25.64	105	5598456	50.26	ug/L	98
57) 1,3-dichlorobenzene	25.90	146	2542709	50.65	ug/L	99
58) 4-isopropyltoluene	26.05	119	4206221	49.37	ug/L	98
59) 1,4-dichlorobenzene	26.16	146	2378175	49.79	ug/L	97
60) 1,2-dichlorobenzene	27.03	146	2389647	50.84	ug/L	99
61) n-butylbenzene	27.04	91	4524974	49.84	ug/L	97
62) 1,2-dibromo-3-chloropropan	29.02	75	503190	47.45	ug/L	95
63) 1,2,4-trichlorobenzene	30.94	180	1861241	47.52	ug/L	99
64) hexachlorobutadiene	31.30	225	1084400	47.86	ug/L	99
65) naphthalene	31.50	128	3355633	50.28	ug/L	100
66) 1,2,3-trichlorobenzene	32.11	180	1687415	48.78	ug/L	100

(#) = qualifier out of range (m) = manual integration

V6918.D 8260RUNW.M

Fri Oct 24 12:45:00 1997

5971 INST Page 2

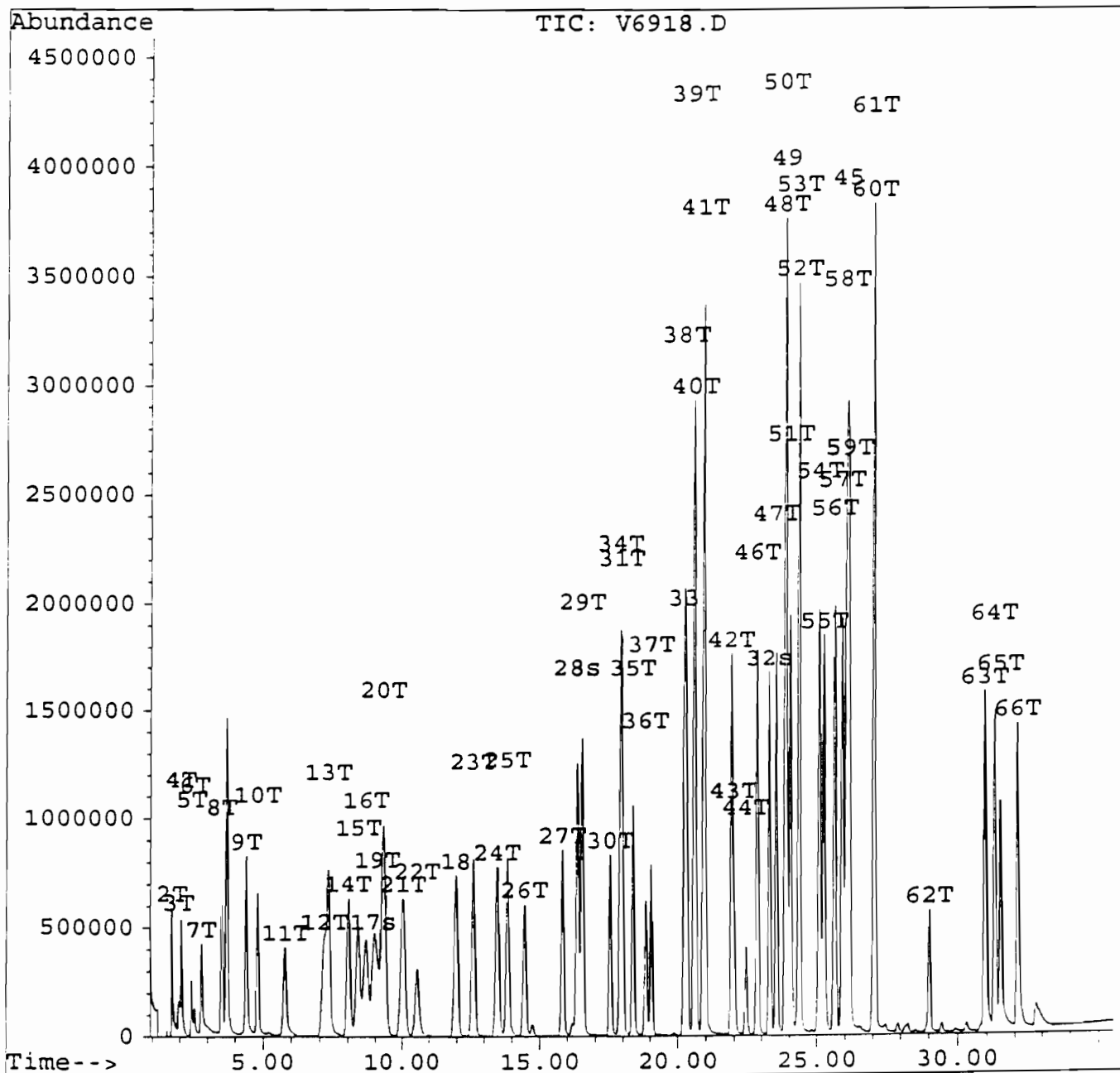
000106

Quantitation Report

Data File : E:\HPCHEM\1\DATA\V6918.D
 Acq Time : 13 Oct 97 2:40 pm
 Sample : 50PPB VOA W CCC
 Misc :
 Quant Time: Oct 24 12:43 1997

Operator:
 Inst : 5971 - 1
 Multiplr: 1.00

Method : D:\HPCHEM\1\METHODS\8260RUNW.M
 Title : 524.2 Purgable Organics
 Last Update : Thu Sep 25 17:02:16 1997
 Response via : Multiple Level Calibration



Quantitation Report

Data File : E:\HPCHEM\1\DATA\V6936.D

Acq Time : 14 Oct 97 2:04 pm

Sample : 50PPB VOA 8260 W CCC

Misc :

Quant Time: Oct 24 12:48 1997

Operator:

Inst : 5971 - Ir

Multiplr: 1.00

Method : D:\HPCHEM\1\METHODS\8260RUNW.M

Title : 524.2 Purgable Organics

Last Update : Thu Sep 25 17:02:16 1997

Response via : Multiple Level Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Pentafluorobenzene	9.30	168	1824627	50.00	ug/L	0.02
18) 1,4-Difluorobenzene	11.95	114	2783809	50.00	ug/L	0.02
33) Chlorobenzene-d5	20.24	117	2835278	50.00	ug/L	0.24
45) 1,4-dichlorobenzene-d4	26.10	152	1494484	50.00	ug/L	0.08

System Monitoring Compounds						%Recovery
17) Dibromofluoromethane	8.92	113	1355660	52.65	ug/L	105.29%
28) Toluene-d8	16.33	98	3072900	50.01	ug/L	100.03%
32) 4-Bromofluorobenzene	23.29	95	2152330	54.17	ug/L	108.33%

Target Compounds						Qvalue
2) dichlorodifluoromethane	1.71	85	695926	51.28	ug/L m	99
3) chloromethane	1.96	50	783649	54.81	ug/L	98
4) vinyl chloride	2.03	62	755237	55.40	ug/L	99
5) bromomethane	2.40	94	279404	49.53	ug/L	99
6) chloroethane	2.52	64	152504	40.78	ug/L	98
7) trichlorofluoromethane	2.76	101	939074	47.97	ug/L m	98
8) 1,1-dichloroethene	3.49	61	1034927	50.45	ug/L	98
9) methylene chloride	4.38	84	1318706	57.93	ug/L	92
10) trans-1,2-dichloroethene	4.78	61	1085032	50.61	ug/L	96
11) 1,1-dichloroethane	5.74	63	1656627	46.24	ug/L	98
12) 2,2-dichloropropane	7.13	77	1476238	49.50	ug/L	99
13) cis-1,2-dichloroethene	7.27	61	2090507	50.69	ug/L	98
14) bromochloromethane	8.00	49	1616884	50.26	ug/L	91
15) chloroform	8.35	83	2116852	51.87	ug/L	98
16) 1,1,1-trichloroethane	8.63	97	1563979	50.20	ug/L	99
19) carbon tetrachloride	9.04	117	864970	51.58	ug/L	99
20) 1,1-dichloropropene	9.24	75	1586694	42.70	ug/L	97
21) benzene	10.00	78	3160521	53.55	ug/L	99
22) 1,2-dichloroethane	10.53	62	1259110	51.56	ug/L	99
23) trichloroethene	12.58	130	1247821	56.34	ug/L	96
24) 1,2-dichloropropane	13.46	63	1436128	53.40	ug/L	99
25) dibromomethane	13.84	174	1243208	59.45	ug/L	93
26) bromodichloromethane	14.45	83	1552103	53.71	ug/L	98
27) cis-1,3-dichloropropene	15.81	75	1841464	53.64	ug/L	99
29) toluene	16.51	91	3685484	53.39	ug/L	99
30) trans-1,3-dichloropropene	17.53	75	1535451	54.55	ug/L	99
31) 1,1,2-trichloroethane	17.96	97	1249222	56.94	ug/L	99
34) tetrachloroethene	17.92	166	1412012	54.76	ug/L	99
35) 1,3-dichloropropane	18.37	76	2133204	52.40	ug/L	100
36) dibromochloromethane	18.84	129	1109027	54.38	ug/L	99
37) 1,2-dibromoethane	19.04	107	1943967	54.72	ug/L	98
38) chlorobenzene	20.31	112	2813610	54.05	ug/L	100
39) 1,1,1,2-tetrachloroethane	20.62	133	1254390	52.58	ug/L	99

(#) = qualifier out of range (m) = manual integration

V6936.D 8260RUNW.M

Fri Oct 24 12:49:07 1997

5971 INST Page 1

000108

Quantitation Report

Data File : E:\HPCHEM\1\DATA\V6936.D
Acq Time : 14 Oct 97 2:04 pm
Sample : 50PPB VOA 8260 W CCC
Misc :
Quant Time: Oct 24 12:48 1997

Operator:
Inst : 5971 - In
Multiplr: 1.00

Method : D:\HPCHEM\1\METHODS\8260RUNW.M
Title : 524.2 Purgable Organics
Last Update : Thu Sep 25 17:02:16 1997
Response via : Multiple Level Calibration

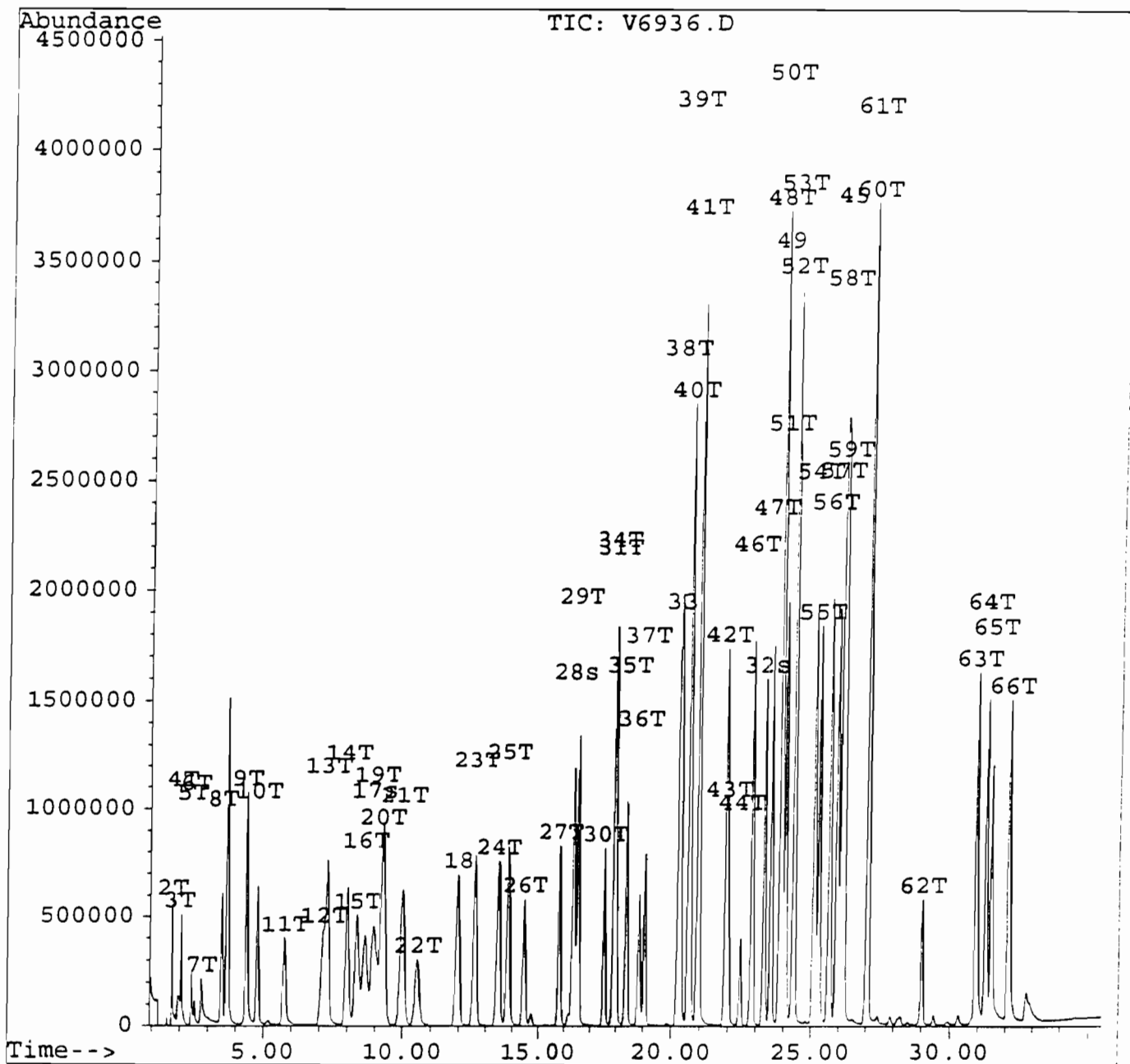
Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
40) ethylbenzene	20.60	91	4542301	52.23	ug/L	97
41) m&p-xylenes	20.93	106	3488474	52.21	ug/L	94
42) o-xylene	21.91	91	3612316	51.44	ug/L m	92
43) styrene	22.00	104	884566	53.35	ug/L	98
44) bromoform	22.43	173	575410	56.57	ug/L	100
46) isopropylbenzene	22.85	105	4507071	52.04	ug/L	98
47) bromobenzene	23.54	77	2878960	51.45	ug/L	95
48) 1,1,2,2-tetrachloroethane	23.88	83	2322256	52.86	ug/L	98
49) 1,2,3-trichloropropane	23.92	75	1637007	49.85	ug/L	95
50) n-propylbenzene	23.87	120	1186465	52.48	ug/L	91
51) 2-chlorotoluene	24.05	126	1188083	52.22	ug/L	92
52) 4-chlorotoluene	24.36	126	1218563	52.83	ug/L	90
53) 1,3,5-trimethylbenzene	24.37	105	3233901	51.75	ug/L	98
54) tert-butylbenzene	25.09	119	3448743	51.28	ug/L	95
55) 1,2,4-trimethylbenzene	25.26	105	3814936	53.03	ug/L	100
56) sec-butylbenzene	25.64	105	5486227	51.35	ug/L	98
57) 1,3-dichlorobenzene	25.90	146	2561023	53.19	ug/L	99
58) 4-isopropyltoluene	26.04	119	4205807	51.47	ug/L	98
59) 1,4-dichlorobenzene	26.15	146	2428918	53.01	ug/L	99
60) 1,2-dichlorobenzene	27.03	146	2393450	53.09	ug/L	99
61) n-butylbenzene	27.04	91	4466411	51.29	ug/L	99
62) 1,2-dibromo-3-chloropropan	29.01	75	501520	49.31	ug/L	94
63) 1,2,4-trichlorobenzene	30.93	180	1877212	49.97	ug/L	98
64) hexachlorobutadiene	31.29	225	1092889	50.29	ug/L	98
65) naphthalene	31.49	128	3628615	56.68	ug/L	99
66) 1,2,3-trichlorobenzene	32.11	180	1715862	51.71	ug/L	99

Quantitation Report

Data File : E:\HPCHEM\1\DATA\V6936.D
 Acq Time : 14 Oct 97 2:04 pm
 Sample : 50PPB VOA 8260 W CCC
 Misc :
 Quant Time: Oct 24 12:48 1997

Operator:
 Inst : 5971 - In
 Multiplr: 1.00

Method : D:\HPCHEM\1\METHODS\8260RUNW.M
 Title : 524.2 Purgable Organics
 Last Update : Thu Sep 25 17:02:16 1997
 Response via : Multiple Level Calibration



Evaluate Continuing Calibration Report

Data File : E:\HPCHEM\1\DATA\V6936.D

Acq Time : 14 Oct 97 2:04 pm

Sample : 50PPB VOA 8260 W CCC

Misc :

Operator:

Inst : 5971 - In

Multiplr: 1.00

Method : D:\HPCHEM\1\METHODS\8260RUNW.M

Title : 524.2 Purgable Organics

Last Update : Thu Sep 25 17:02:16 1997

Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min

Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	AvgRRF	CCRRF	%Dev	Area%	Dev(Min)
1	Pentafluorobenzene	1.000	1.000	0.0	90	0.02
2 T	dichlorodifluoromethane	0.372	0.381	-2.6	92	0.03
3 T	chloromethane	0.392	0.429	-9.6	101	0.03
4 T	vinyl chloride	0.374	0.414	-10.8	99	0.02
5 T	bromomethane	0.155	0.153	0.9	87	0.02
6 T	chloroethane	0.102	0.084	18.4	80	0.02
7 T	trichlorofluoromethane	0.536	0.515	4.1	78	0.01
8 T	1,1-dichloroethene	0.562	0.567	-0.9	89	0.01
9 T	methylene chloride	0.624	0.723	-15.9	127	0.00
10 T	trans-1,2-dichloroethene	0.587	0.595	-1.2	91	0.00
11 T	1,1-dichloroethane	0.982	0.908	7.5	83	0.00
12 T	2,2-dichloropropane	0.817	0.809	1.0	91	0.01
13 T	cis-1,2-dichloroethene	1.130	1.146	-1.4	93	0.00
14 T	bromochloromethane	0.882	0.886	-0.5	93	0.01
15 T	chloroform	1.118	1.160	-3.7	96	0.00
16 T	1,1,1-trichloroethane	0.854	0.857	-0.4	91	0.03
17 s	Dibromofluoromethane	0.706	0.743	-5.3	95	0.02
18	1,4-Difluorobenzene	1.000	1.000	0.0	89	0.02
19 T	carbon tetrachloride	0.301	0.311	-3.2	91	0.02
20 T	1,1-dichloropropene	0.667	0.570	14.6	91	0.02
21 T	benzene	1.060	1.135	-7.1	97	0.05
22 T	1,2-dichloroethane	0.439	0.452	-3.1	94	0.02
23 T	trichloroethene	0.398	0.448	-12.7	104	0.05
24 T	1,2-dichloropropane	0.483	0.516	-6.8	97	0.04
25 T	dibromomethane	0.376	0.447	-18.9	112	0.05
26 T	bromodichloromethane	0.519	0.558	-7.4	97	0.05
27 T	cis-1,3-dichloropropene	0.617	0.661	-7.3	97	0.08
28 s	Toluene-d8	1.104	1.104	-0.0	90	0.12
29 T	toluene	1.240	1.324	-6.8	98	0.12
30 T	trans-1,3-dichloropropene	0.506	0.552	-9.1	99	0.14
31 T	1,1,2-trichloroethane	0.394	0.449	-13.9	106	0.16
32 s	4-Bromofluorobenzene	0.714	0.773	-8.3	98	0.14
33	Chlorobenzene-d5	1.000	1.000	0.0	94	0.24
34 T	tetrachloroethene	0.455	0.498	-9.5	105	0.21
35 T	1,3-dichloropropane	0.718	0.752	-4.8	102	0.20
36 T	dibromochloromethane	0.360	0.391	-8.8	105	0.22
37 T	1,2-dibromoethane	0.626	0.686	-9.4	107	0.22
38 T	chlorobenzene	0.918	0.992	-8.1	103	0.23
39 T	1,1,1,2-tetrachloroethane	0.421	0.442	-5.2	103	0.20
40 T	ethylbenzene	1.534	1.602	-4.5	98	0.23

(#) = Out of Range

V6936.D 8260RUNW.M

Fri Oct 24 12:53:38 1997

5971 INST

Page 1

000111

Evaluate Continuing Calibration Report

Data File : E:\HPCHEM\1\DATA\V6936.D
 Acq Time : 14 Oct 97 2:04 pm
 Sample : 50PPB VOA 8260 W CCC
 Misc :

Operator:
 Inst : 5971 - In
 Multiplr: 1.00

Method : D:\HPCHEM\1\METHODS\8260RUNW.M
 Title : 524.2 Purgable Organics
 Last Update : Thu Sep 25 17:02:16 1997
 Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
 Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	AvgRRF	CCRRF	%Dev	Area%	Dev(Min)
41 T	m&p-xylenes	1.178	1.230	-4.4	99	0.21
42 T	o-xylene	1.238	1.274	-2.9	98	0.18
43 T	styrene	0.292	0.312	-6.7	101	0.18
44 T	bromoform	0.179	0.203	-13.1	112	0.14
45	1,4-dichlorobenzene-d4	1.000	1.000	0.0	93	0.08
46 T	isopropylbenzene	2.898	3.016	-4.1	98	0.15
47 T	bromobenzene	1.872	1.926	-2.9	99	0.13
48 T	1,1,2,2-tetrachloroethane	1.470	1.554	-5.7	109	0.09
49	1,2,3-trichloropropane	1.099	1.095	0.3	111	0.10
50 T	n-propylbenzene	0.756	0.794	-5.0	99	0.12
51 T	2-chlorotoluene	0.761	0.795	-4.4	100	0.11
52 T	4-chlorotoluene	0.772	0.815	-5.7	101	0.11
53 T	1,3,5-trimethylbenzene	2.091	2.164	-3.5	97	0.12
54 T	tert-butylbenzene	2.250	2.308	-2.6	97	0.09
55 T	1,2,4-trimethylbenzene	2.407	2.553	-6.1	101	0.09
56 T	sec-butylbenzene	3.575	3.671	-2.7	96	0.08
57 T	1,3-dichlorobenzene	1.611	1.714	-6.4	103	0.07
58 T	4-isopropyltoluene	2.734	2.814	-2.9	97	0.08
59 T	1,4-dichlorobenzene	1.533	1.625	-6.0	102	0.07
60 T	1,2-dichlorobenzene	1.508	1.602	-6.2	104	0.06
61 T	n-butylbenzene	2.914	2.989	-2.6	96	0.06
62 T	1,2-dibromo-3-chloropropane	0.340	0.336	1.4	111	0.03
63 T	1,2,4-trichlorobenzene	1.257	1.256	0.1	105	0.02
64 T	hexachlorobutadiene	0.727	0.731	-0.6	100	0.02
65 T	naphthalene	2.142	2.428	-13.4	117	0.03
66 T	1,2,3-trichlorobenzene	1.110	1.148	-3.4	108	0.02

(#) = Out of Range
 V6936.D 8260RUNW.M

SPCC's out = 0 CCC's out = 0
 Fri Oct 24 12:53:42 1997 5971 INST

Page 2

000112

VOLATILES

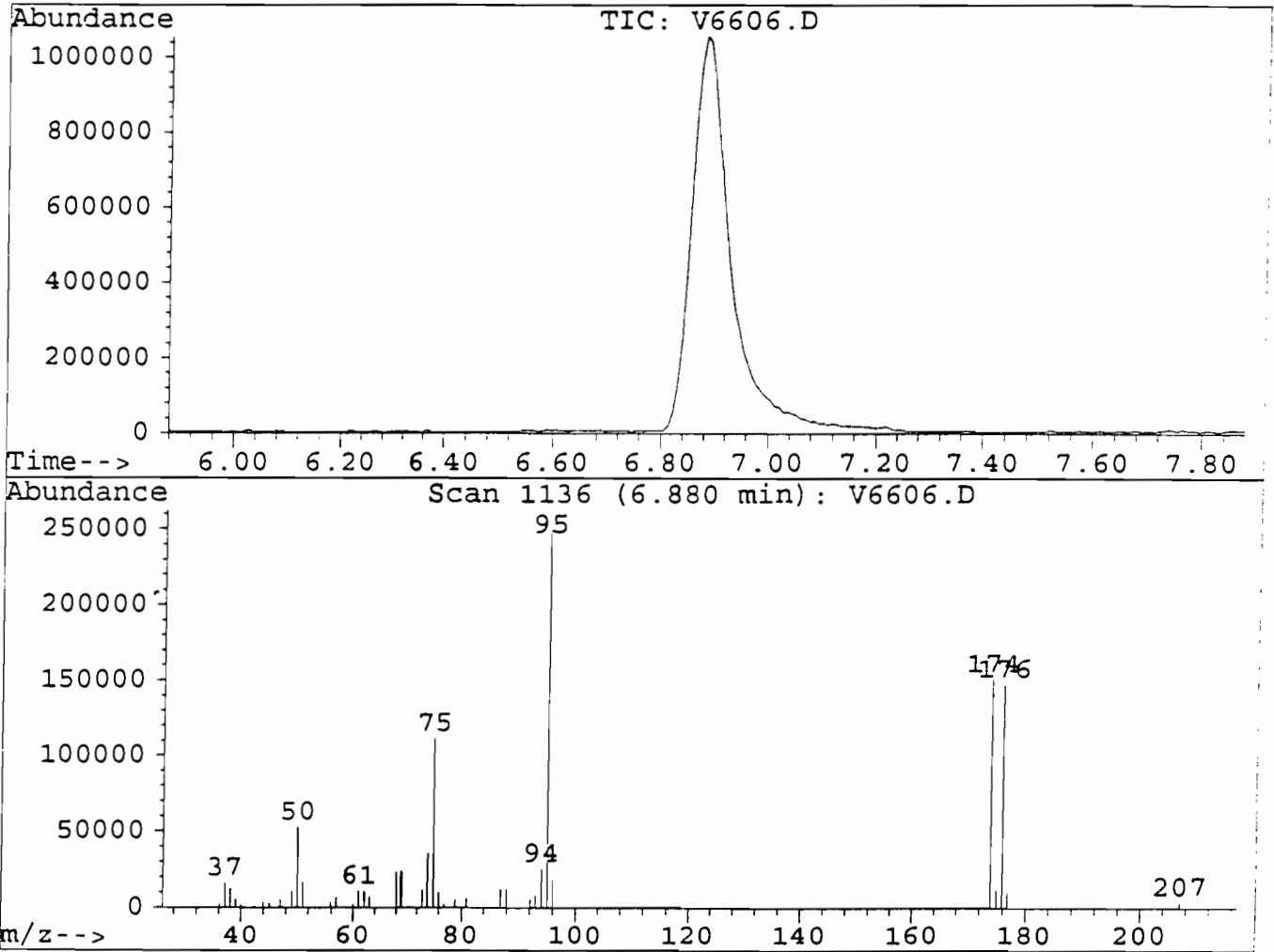
RAW QC DATA

BFB

Data File : E:\HPCHEM\1\DATA\V6606.D
 Acq Time : 25 Sep 97 11:33 am
 Sample : 50NG BFB TUNE CHECK
 Misc : 5ML

Operator: RC
 Inst : 5971 - I
 Multiplr: 1.00

Method : D:\HPCHEM\1\METHODS\8260RUNW.M
 Title : 524.2 Purgable Organics



Peak Apex is scan: 1136

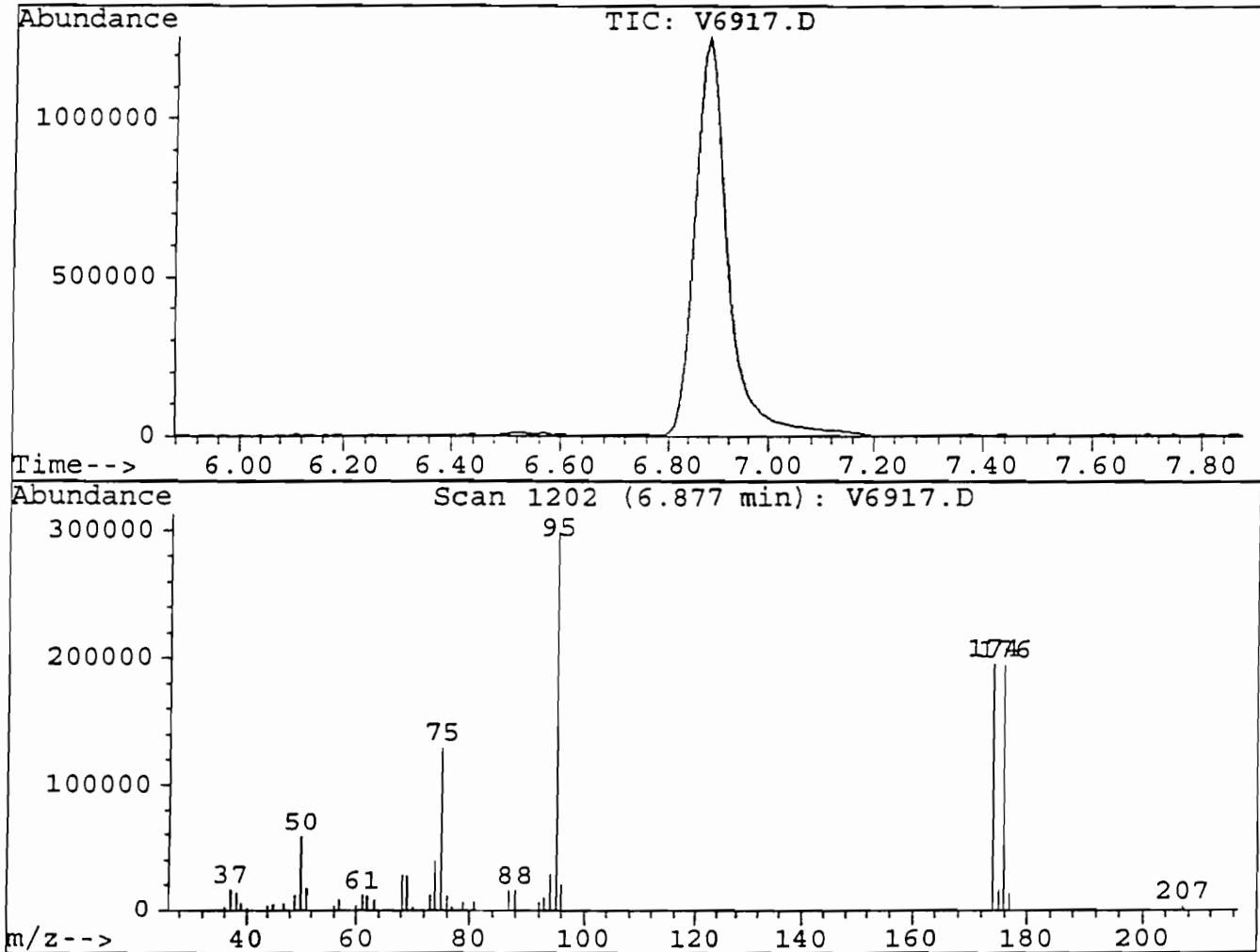
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	21.0	52440	PASS
75	95	30	80	44.6	111504	PASS
95	95	100	100	100.0	250048	PASS
96	95	5	9	7.2	17936	PASS
173	174	0	2	0.0	0	PASS
174	95	50	100	60.4	151040	PASS
175	174	5	9	7.9	11866	PASS
176	174	95	101	97.6	147392	PASS
177	176	5	9	6.9	10118	PASS

BFB

Data File : D:\HPCHEM\1\DATA\V6917.D
 Acq Time : 13 Oct 97 2:10 pm
 Sample : 50NG BFB TUNE CHECK
 Misc :

Operator:
 Inst : 5971 - In
 Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\VOAW0910.M
 Title : VOA Standards for 5 point calibration



Peak Apex is scan: 1202

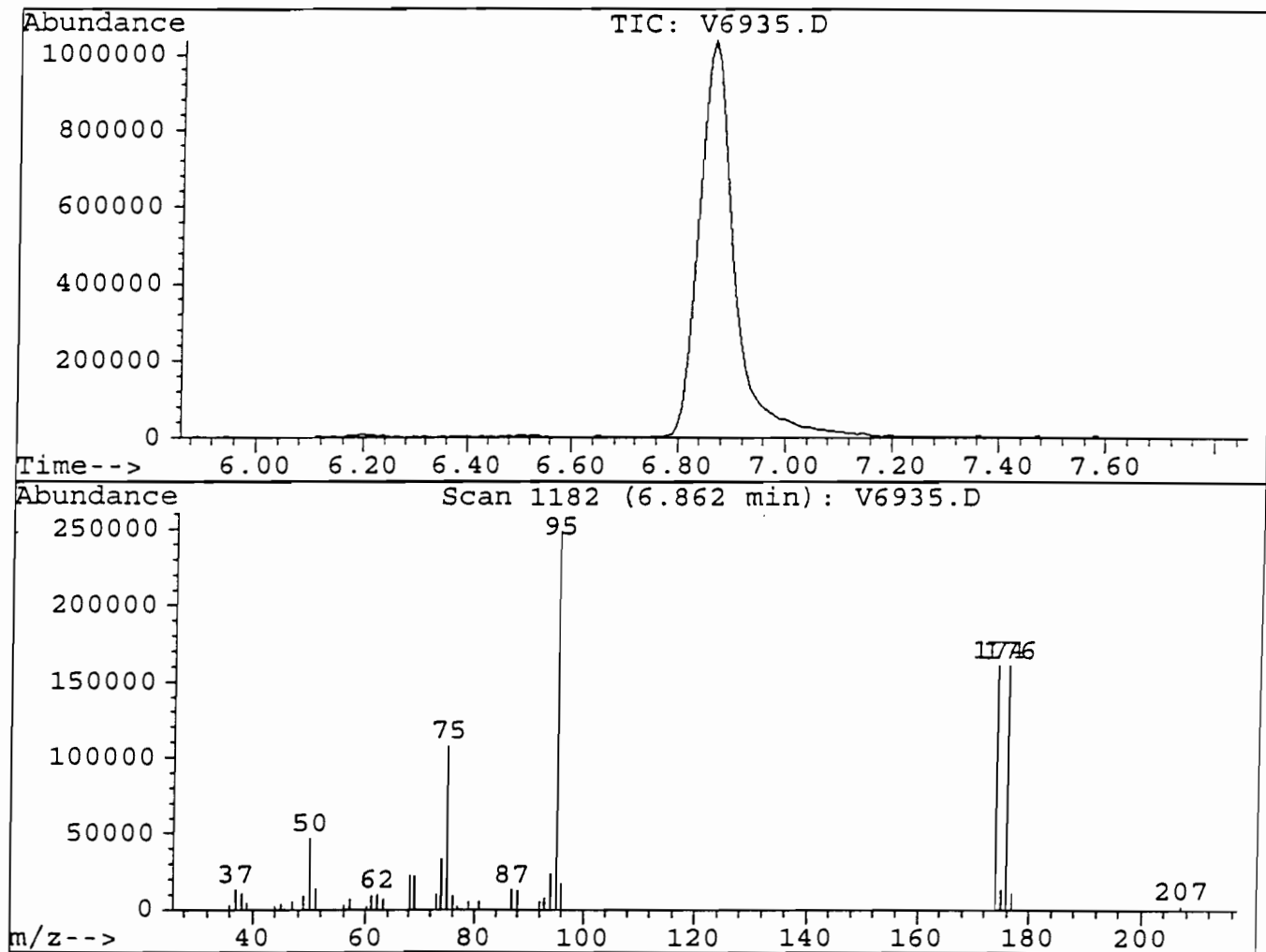
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	19.4	57984	PASS
75	95	30	60	43.2	128736	PASS
95	95	100	100	100.0	298176	PASS
96	95	5	9	6.7	20120	PASS
173	174	0	2	0.0	0	PASS
174	95	50	100	65.4	194880	PASS
175	174	5	9	7.5	14694	PASS
176	174	95	101	99.4	193792	PASS
177	176	5	9	6.5	12501	PASS

BFB

Data File : D:\HPCHEM\1\DATA\V6935.D
Acq Time : 14 Oct 97 1:33 pm
Sample : 50NG BFB TUNE CHECK
Misc :

Operator:
Inst : 5971 - I
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\8260RUNW.M
Title : 524.2 Purgable Organics



Peak Apex is scan: 1182

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	18.7	46408	PASS
75	95	30	80	43.2	107352	PASS
95	95	100	100	100.0	248704	PASS
96	95	5	9	6.9	17168	PASS
173	174	0	2	0.0	0	PASS
174	95	50	100	64.6	160768	PASS
175	174	5	9	7.9	12709	PASS
176	174	95	101	99.7	160320	PASS
177	176	5	9	6.9	11049	PASS

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

VBK01

Lab Name: CHEMTECH Contract: NEW YORK STATE D.E.C.

Project No.: 5252DEC Site: _____ Location: _____ Group: _____

Matrix: (soil/water) WATER Lab Sample ID: VBK01

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: V6920.D

Level: (low/med) _____ Date Received: _____

% Moisture: not dec. 100 Date Analyzed: 10/13/97

GC Column: RTX624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CAS No.	Compound	Concentration Units:		Q
		(ug/L or ug/Kg)	ug/L	
75-71-8	Dichlorodifluoromethane	5		U
74-87-3	Chloromethane	5		U
75-01-4	Vinyl Chloride	5		U
74-83-9	Bromomethane	5		U
75-00-3	Chloroethane	5		U
75-69-4	Trichlorofluoromethane	10		
75-35-4	1,1-Dichloroethene	5		U
75-09-2	Methylene Chloride	5		U
156-60-5	trans-1,2-Dichloroethene	5		U
75-34-4	1,1-Dichloroethane	5		U
590-20-7	2,2-Dichloropropane	5		U
156-60-5	cis-1,2-dichloroethene	5		U
74-97-5	Bromochloromethane	5		U
67-66-3	Chloroform	5		U
71-55-6	1,1,1-Trichloroethane	5		U
56-23-5	Carbon Tetrachloride	5		U
563-58-6	1,1-Dichloropropene	5		U
71-43-2	Benzene	5		U
107-06-2	1,2-Dichloroethane	5		U
79-01-6	Trichloroethene	5		U
78-87-5	1,2-Dichloropropane	5		U
74-95-3	Dibromomethane	5		U
75-27-4	Bromodichloromethane	5		U
10061-01-5	cis-1,3-Dichloropropene	5		U
108-88-3	Toluene	5		U
10061-02-6	trans-1,3-Dichloropropene	5		U
79-00-5	1,1,2-Trichloroethane	5		U
127-18-4	Tetrachloroethene	5		U
142-28-9	1,3-Dichloropropane	5		U
124-48-1	Dibromochloromethane	5		U
106-93-4	1,2-Dibromoethane	5		U
108-90-7	Chlorobenzene	5		U
630-20-6	1,1,1,2-Tetrachloroethane	5		U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

VBK01

Lab Name: CHEMTECH Contract: NEW YORK STATE D.E.C.

Project No.: 5252DEC Site: Location: Group:

Matrix: (soil/water) WATER Lab Sample ID: VBK01

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: V6920.D

Level: (low/med) Date Received:

% Moisture: not dec. 100 Date Analyzed: 10/13/97

GC Column: RTX624 ID: 0.53 (nm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS No.	Compound	Concentration Units:		Q
		(ug/L or ug/Kg)	ug/L	
100-41-4	Ethylbenzene	5		U
1330-20-7	m&p-xylenes	5		U
95-47-6	o-xylene	5		U
100-42-5	Styrene	5		U
75-25-2	Bromoform	5		U
98-82-8	isopropylbenzene	5		U
108-86-1	Bromobenzene	5		U
79-34-5	1,1,2,2-Tetrachloroethane	5		U
96-18-4	1,2,3-Trichloropropane	5		U
103-65-1	n-Propylbenzene	5		U
95-49-8	2-Chlorotoluene	5		U
106-43-4	4-Chlorotoluene	5		U
108-67-8	1,3,5-Trimethylbenzene	5		U
98-06-6	tert-Butylbenzene	5		U
95-63-6	1,2,4-Trimethylbenzene	5		U
135-98-8	sec-Butylbenzene	5		U
541-73-1	1,3-Dichlorobenzene	5		U
99-87-6	4-Isopropyltoluene	5		U
106-46-7	1,4-Dichlorobenzene	5		U
95-50-1	1,2-Dichlorobenzene	5		U
104-51-8	n-Butylbenzene	5		U
96-12-8	1,2-Dibromo-3-chloropropane	5		U
120-82-1	1,2,4-Trichlorobenzene	5		U
87-68-3	Hexachlorobutadiene	5		U
91-20-3	Naphthalene	5		U
87-61-6	1,2,3-Trichlorobenzene	5		U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.

VBK01

Lab Name: CHEMTECH Contract: NEW YORK STATE D.E.C.
Project No. 5252 Site: _____ Location: _____ Group: _____
Matrix: (soil/water) WATER Lab Sample ID: VBK01
Sample wt/vol: 5.0 (g/mL) ML Lab File ID: V6920.D
Level: (low/med) _____ Date Received: _____
% Moisture: not dec. 100 Date Analyzed: 10/13/97
GC Column: RTX624 ID: 0.53 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Number TICs found: 0 Concentration Units:
(ug/L or ug/Kg) ug/L

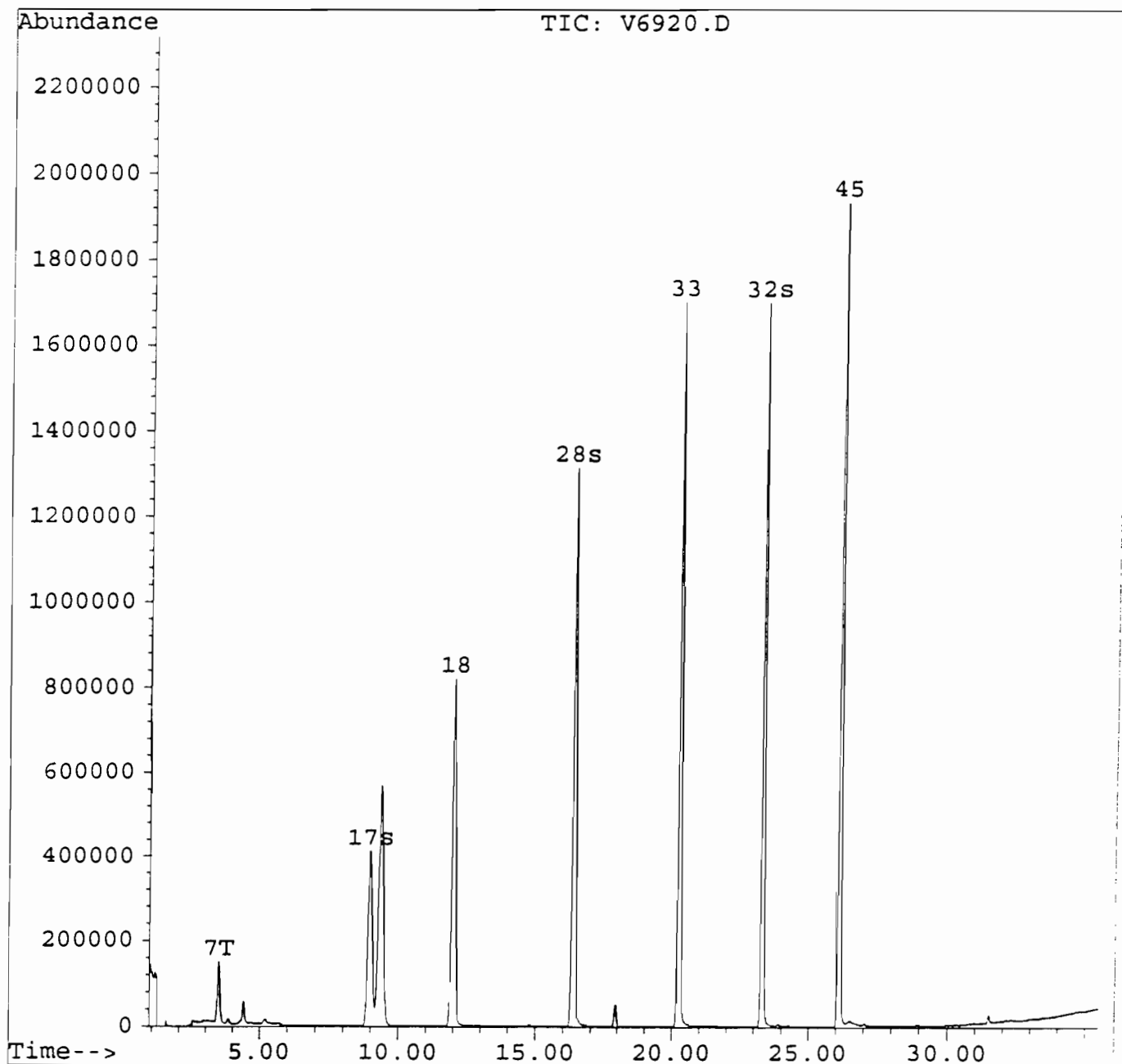
CAS Number	Compound Name	RT	Est. Conc.	Q
1.				
2.				
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4.				
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30.				

Quantitation Report

Data File : E:\HPCHEM\1\DATA\V6920.D
Acq Time : 13 Oct 97 4:08 pm
Sample : PRO.BLK
Misc : 5ML
Quant Time: Oct 24 12:55 1997

Operator:
Inst : 5971 - Ir
Multiplr: 1.00

Method : D:\HPCHEM\1\METHODS\8260RUNW.M
Title : 524.2 Purgable Organics
Last Update : Thu Sep 25 17:02:16 1997
Response via : Multiple Level Calibration



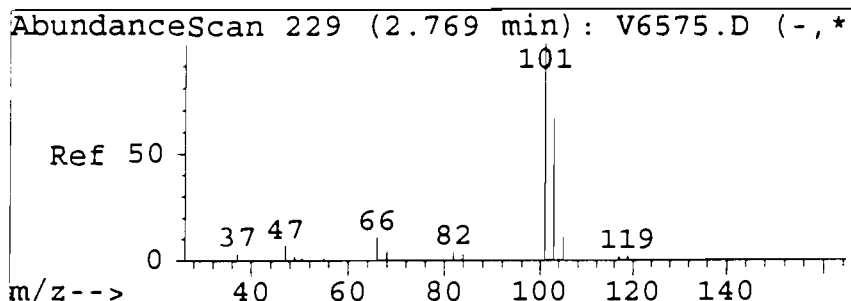
Quantitation Report

Data File : E:\HPCHEM\1\DATA\V6920.D
 Acq Time : 13 Oct 97 4:08 pm
 Sample : PRO.BLK
 Misc : 5ML
 Quant Time: Oct 24 12:55 1997

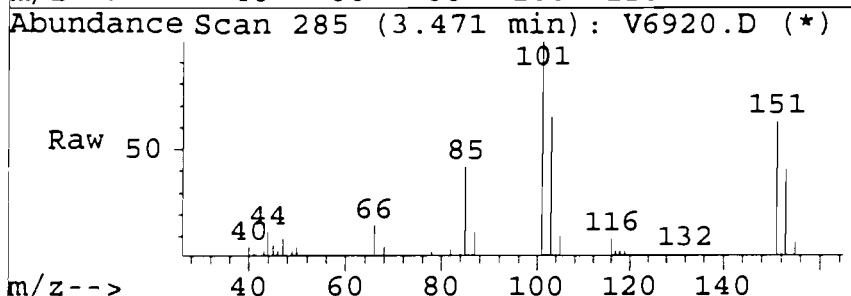
Operator:
 Inst : 5971 - I
 Multiplr: 1.00

Method : D:\HPCHEM\1\METHODS\8260RUNW.M
 Title : 524.2 Purgable Organics
 Last Update : Thu Sep 25 17:02:16 1997
 Response via : Multiple Level Calibration

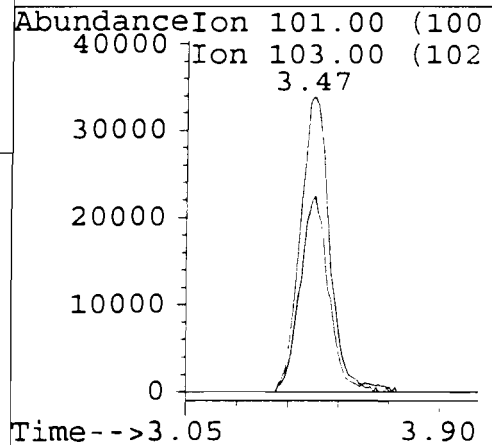
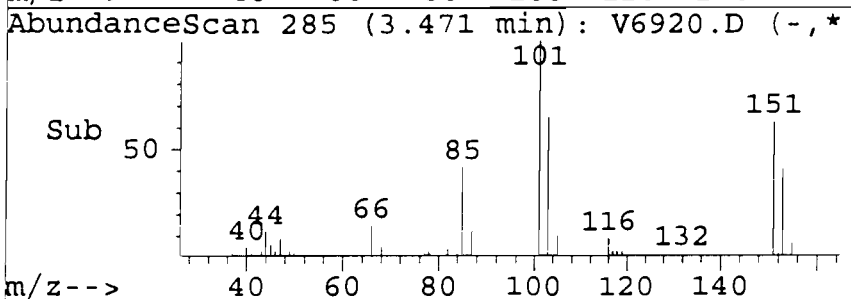
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	9.35	168	2183836	50.00	ug/L	0.07
18) 1,4-Difluorobenzene	12.00	114	3230341	50.00	ug/L	0.07
33) Chlorobenzene-d5	20.24	117	3283202	50.00	ug/L	0.24
45) 1,4-dichlorobenzene-d4	26.10	152	1770957	50.00	ug/L	0.08
System Monitoring Compounds						%Recovery
17) Dibromofluoromethane	8.97	113	1448399	47.00	ug/L	93.99%
28) Toluene-d8	16.35	98	3423500	48.02	ug/L	96.03%
32) 4-Bromofluorobenzene	23.29	95	2252130	48.84	ug/L	97.69%
Target Compounds						Qvalue
7) trichlorofluoromethane	3.47	101	235976	10.07	ug/L m	100



#7
 trichlorofluoromethane
 Concen: 10.07 ug/L m
 RT: 3.47 min Scan# 285
 Delta R.T. 0.72 min
 Lab File: V6920.D
 Acq: 13 Oct 97 4:08 pm



Tgt Ion:	101	Resp:	235976
Ion	Ratio	Lower	Upper
101	100		
103	65.0	45.6	84.6
0	0.0	0.0	0.0
0	0.0	0.0	0.0



Library Search Compound Report

Data File : D:\HPCHEM\1\DATA\V6920.D
Acq Time : 13 Oct 97 4:08 pm
Sample : PRO.BLK
Misc : SML

Operator:
Inst : 5971 - In
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\8260RUNW.M
Title : 524.2 Purgable Organics
Library : NBS75K.L

No Library Search Compounds Detected

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

VBK02

Lab Name: CHEMTECH Contract: NEW YORK STATE D.E.C.

Project No.: 5252DEC Site: _____ Location: _____ Group: _____

Matrix: (soil/water) WATER Lab Sample ID: VBK02

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: V6938.D

Level: (low/med) _____ Date Received: _____

% Moisture: not dec. 100 Date Analyzed: 10/14/97

GC Column: RTX624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CAS No.	Compound	Concentration Units:	
		(ug/L or ug/Kg)	ug/L
			Q
75-71-8	Dichlorodifluoromethane	5	U
74-87-3	Chloromethane	5	U
75-01-4	Vinyl Chloride	5	U
74-83-9	Bromomethane	5	U
75-00-3	Chloroethane	5	U
75-69-4	Trichlorofluoromethane	5	U
75-35-4	1,1-Dichloroethene	5	U
75-09-2	Methylene Chloride	5	U
156-60-5	trans-1,2-Dichloroethene	5	U
75-34-4	1,1-Dichloroethane	5	U
590-20-7	2,2-Dichloropropane	5	U
156-60-5	cis-1,2-dichloroethene	5	U
74-97-5	Bromochloromethane	5	U
67-66-3	Chloroform	5	U
71-55-6	1,1,1-Trichloroethane	5	U
56-23-5	Carbon Tetrachloride	5	U
563-58-6	1,1-Dichloropropene	5	U
71-43-2	Benzene	5	U
107-06-2	1,2-Dichloroethane	5	U
79-01-6	Trichloroethene	5	U
78-87-5	1,2-Dichloropropane	5	U
74-95-3	Dibromomethane	5	U
75-27-4	Bromodichloromethane	5	U
10061-01-5	cis-1,3-Dichloropropene	5	U
108-88-3	Toluene	5	U
10061-02-6	trans-1,3-Dichloropropene	5	U
79-00-5	1,1,2-Trichloroethane	5	U
127-18-4	Tetrachloroethene	5	U
142-28-9	1,3-Dichloropropane	5	U
124-48-1	Dibromochloromethane	5	U
106-93-4	1,2-Dibromoethane	5	U
108-90-7	Chlorobenzene	5	U
630-20-6	1,1,1,2-Tetrachloroethane	5	U

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE NO.

VBK02

Lab Name: CHEMTECH Contract: NEW YORK STATE D.E.C.

Project No.: 5252DEC Site: _____ Location: _____ Group: _____

Matrix: (soil/water) WATER Lab Sample ID: VBK02

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: V6938.D

Level: (low/med) _____ Date Received: _____

% Moisture: not dec. 100 Date Analyzed: 10/14/97

GC Column: RTX624 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CAS No.	Compound	Concentration Units:	
		(ug/L or ug/Kg)	ug/L
			Q
100-41-4	Ethylbenzene	5	U
1330-20-7	m&p-xylenes	5	U
95-47-6	o-xylene	5	U
100-42-5	Styrene	5	U
75-25-2	Bromoform	5	U
98-82-8	isopropylbenzene	5	U
108-86-1	Bromobenzene	5	U
79-34-5	1,1,2,2-Tetrachloroethane	5	U
96-18-4	1,2,3-Trichloropropane	5	U
103-65-1	n-Propylbenzene	5	U
95-49-8	2-Chlorotoluene	5	U
106-43-4	4-Chlorotoluene	5	U
108-67-8	1,3,5-Trimethylbenzene	5	U
98-06-6	tert-Butylbenzene	5	U
95-63-6	1,2,4-Trimethylbenzene	5	U
135-98-8	sec-Butylbenzene	5	U
541-73-1	1,3-Dichlorobenzene	5	U
99-87-6	4-Isopropyltoluene	5	U
106-46-7	1,4-Dichlorobenzene	5	U
95-50-1	1,2-Dichlorobenzene	5	U
104-51-8	n-Butylbenzene	5	U
96-12-8	1,2-Dibromo-3-chloropropane	5	U
120-82-1	1,2,4-Trichlorobenzene	5	U
87-68-3	Hexachlorobutadiene	5	U
91-20-3	Naphthalene	5	U
87-61-6	1,2,3-Trichlorobenzene	5	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

SAMPLE NO.

VBK02

Lab Name: CHEMTECH Contract: NEW YORK STATE D.E.C.
 Project No. 5252 Site: _____ Location: _____ Group: _____
 Matrix: (soil/water) WATER Lab Sample ID: VBK02
 Sample wt/vol: 5.0 (g/mL) ML Lab File ID: V6938.D
 Level: (low/med) _____ Date Received: _____
 % Moisture: not dec. 100 Date Analyzed: 10/14/97
 GC Column: RTX624 ID: 0.53 (mm) Dilution Factor: 1.0
 Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Number TICs found: 0 Concentration Units:
 (ug/L or ug/Kg) ug/L

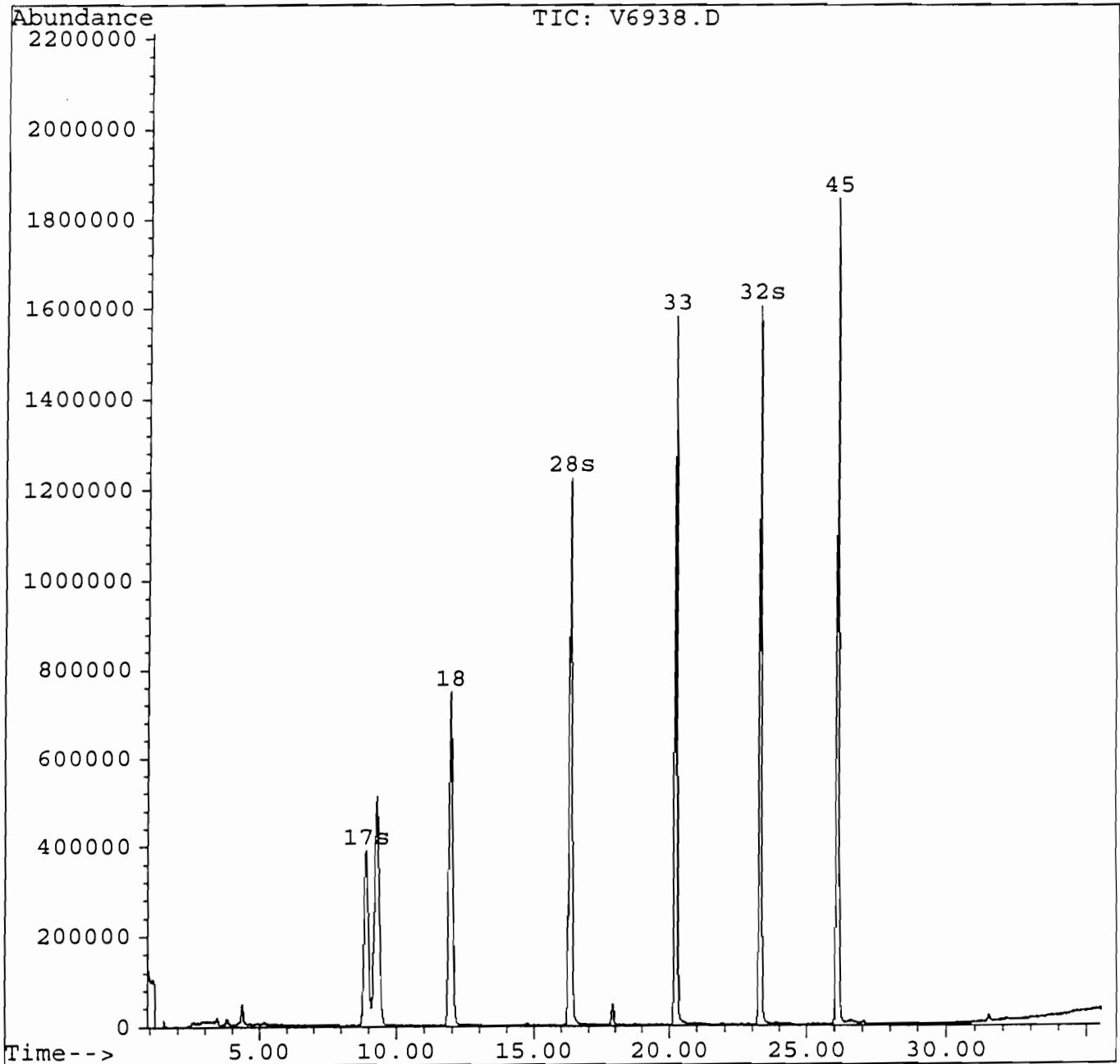
CAS Number	Compound Name	RT	Est. Conc.	Q
1.				
2.				
3.				
4.				
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Quantitation Report

Data File : D:\HPCHEM\1\DATA\V6938.D
Acq Time : 14 Oct 97 3:28 pm
Sample : PRO.BLK
Misc : 5ML
Quant Time: Oct 23 20:52 1997

Operator:
Inst : 5971 - I
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\8260RUNW.M
Title : 524.2 Purgable Organics
Last Update : Thu Sep 25 17:02:16 1997
Response via : Multiple Level Calibration



Quantitation Report

Data File : D:\HPCHEM\1\DATA\V6938.D
 Acq Time : 14 Oct 97 3:28 pm
 Sample : PRO.BLK
 Misc : 5ML
 Quant Time: Oct 23 20:52 1997

Operator:
 Inst : 5971 - I
 Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\8260RUNW.M
 Title : 524.2 Purgable Organics
 Last Update : Thu Sep 25 17:02:16 1997
 Response via : Multiple Level Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Pentafluorobenzene	9.31	168	2047643	50.00	ug/L	0.02
18) 1,4-Difluorobenzene	11.96	114	3000453	50.00	ug/L	0.03
33) Chlorobenzene-d5	20.23	117	3108603	50.00	ug/L	0.22
45) 1,4-dichlorobenzene-d4	26.09	152	1702343	50.00	ug/L	0.07
System Monitoring Compounds						%Recovery
17) Dibromofluoromethane	8.93	113	1377111	47.66	ug/L	95.31
28) Toluene-d8	16.34	98	3240229	48.93	ug/L	97.86
32) 4-Bromofluorobenzene	23.28	95	2149088	50.18	ug/L	100.36

Target Compounds Qvalue

Library Search Compound Report

Data File : D:\HPCHEM\1\DATA\V6938.D
Acq Time : 14 Oct 97 3:28 pm
Sample : PRO.BLK
Misc : 5ML

Operator:
Inst : 5971 - I
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\8260RUNW.M
Title : 524.2 Purgable Organics
Library : NBS75K.L

No Library Search Compounds Detected

CHEMTECH CONSULTING GROUP

SHIPPING & RECEIVING DOCUMENTS

000130

4081624665

30240

4081624665



0100-1137-0

9.23.97

Jennifer Morse

914-735-8300

DIVYA MEHTA

201 5676868

LAHLER MATUSKY & SKELLY ENGINE

CHEMTECH

53 HUDSON AVE

110 ROUTE 4

NYACK

NY

1 0 9 6 0

ENGLEWOOD

NJ

07631

X 650231



14

B. maronetti

9/24/97 1340

REVISION DATE 4/94

160

000131

Page 1 of 1

Project No. 650231	Project: NCIA Atlas Graphics	Collection Site: Hydropunch
LMS Facility:	Field Personnel: Jennifer Morse	

SAMPLE TYPE (Circle):

Drinking Water Treatment Facility

Stream/Pond
Soil

Monitoring Wells
Coliform (T)

**Bottom Sediment
Coliform (F)**

Industrial Waste River/Ocean
Other Groundwater

[illegible]

000122

SAMPLE LOG-IN SHEET					
Lab Name: <u>CHEMTECH</u>		Page <u>1</u> of <u> </u>			
Received By (Print Name): <u>BABAK MOROVATI</u>		Log-in Date: <u>9/24/97</u>			
Received By (Signature): <u>P. Morovati</u>					
Case Number: <u>RA097</u> <u>AV 10/24/97</u>					
Sample Delivery Group No.: <u>Q126 0122</u>					
SAS Number: <u> </u>					
REMARKS:		CORRESPONDING			
		EPA SAMPLE #	SAMPLE TAG #		
		ASSIGNED LAB #	REMARKS: CONDITION OF SAMPLE SHIPMENT, ETC.		
1. Custody Seal(s) <u>Present/Absent*</u> <u>Intact/Broken</u>		B94865	N/A		
2. Custody Seal Nos.: <u> </u>		B94866	28801		
3. Chain-of-Custody Records <u>Present/Absent*</u>		B94867	28802		
4. Traffic Reports or Packing List <u>Present/Absent*</u>		TB	28799		
5. Airbill <u>Airbill/Sticker</u> <u>Present/Absent*</u>		X			
6. Airbill No.: <u>405 162 4665</u>					
7. Sample Tags <u>Present/Absent*</u>					
Sample Tag Numbers <u>Listed/Not Listed</u> <u>on Chain-of-Custody</u>					
8. Sample Condition: <u>Intact/Broken*/Leaking</u>					
9. Does information on custody records, traffic reports, and sample tags agree? <u>Yes/No*</u>					
10. Date Received at Lab: <u>9/24/97</u>					
11. Time Received: <u>1300</u>					
Sample Transfer					
Fraction: <u> </u>					
Area #: <u> </u>					
By: <u> </u>					
Cus: <u> </u>					

000133

SAMPLE DELIVERY GROUP (SDG) TRAFFIC REPORT (TR) COVER SHEET

Lab Name: Chemtech Contract No.: 68-DS-0166 ^{AV 10/24/97}
Lab Code: Chem Case No.: RA097 SAS No.: _____
Full Sample Analysis Price in Contract: \$ _____
SDG No./First Sample in SDG: 0122 Sample Receipt Date: 9/24/97
(Lowest EPA Sample Number in first shipment of (MM/DD/YY)
samples received under SDG.)

Last Sample in SDG: _____ Sample Receipt Date: 9/24/97
(Highest EPA Sample Number in last shipment of (MM/DD/YY)
samples received under SDG.)

EPA Sample Numbers in the SDG (listed in alphanumeric order)

1	<u>B94865</u>	11	
2	<u>B94866</u>	12	
3	<u>B94867</u>	13	
4	<u>TB</u>	14	
5		15	
6		16	
7		17	
8		18	
9		19	
10		20	

Note: There are a maximum of 20 field samples in an SDG.

Attach Traffic Reports to this form in alphanumeric order
(i.e., the order listed on this form).

[Signature]
Signature

10/24/97
Date

000134

H2M LABS, INC.

An Employee-Owned Company

575 Broad Hollow Road, Melville, NY 11747-5076
(516) 694-3040 • FAX: 516-420-8436

March 5, 1997

Mr. Joseph Jones
NYSDEC Region 0
50 Wolf Road
Albany, NY 12233-7010

Re: Contract: C003180
Case No.: RA096
SDG No.: 0122

Dear Mr. Jones,

Enclosed please find copies of the analytical data and summary packages for the water and soil samples received at our laboratory on January 23, 1997. The samples were analyzed volatile organics and metals, in accordance with the NYSDEC ASP protocol (9/93 revision).

The original copy of the report has been forwarded to Mr. Jack Ryan of the Albany Office.

Please contact me, at anytime, if you have any questions.

Very truly yours,



Lynn T. Daniello
Project Coordinator

Enclosures

c:\windoc\decle197.doc

ORGANICS COMPLETE SDG FILE (CSF) INVENTORY SHEET

LABORATORY NAME H2M LABS INC CITY/STATE MELVILLE NY
CASE NO. RA96 SDG NO. 1122 SDG NOS. TO FOLLOW _____ SAS NO. _____
CONTRACT NO. COO3180 ASP DATE 9/93 Rev

All documents delivered in the complete SDG file must be original documents where possible. (REFERENCE EXHIBIT B, SECTION II AND III.)

	PAGE NOS		CHECK	
	FROM	TO	LAB	NYSDEC
1. <u>Inventory Sheet</u> (Form DC-2) (Do not number)			☒	
2. <u>SDG Case Narrative</u>	<u>A0006</u>	<u>A0011</u>	☒	
3. <u>Contract Lab Sample Information Sheet</u> (CLSIS)	<u>A0013</u>	<u>A0030</u>	☒	
4. <u>Volatiles Data</u>				
a. <u>QC Summary</u>				
Surrogate Percent Recovery Summary (Form II-CLP-VOA)	<u>V0003</u>	<u>V0004</u>	☒	
Lab Control Sample Recovery (Form III-CLP-VOA)	<u>N/A</u>			
Method Blank Summary (Form IV-CLP-VOA)	<u>V0005</u>	<u>V0001</u>	☒	
GC/MS Instrument Performance Check (Form V-CLP-VOA)	<u>V0010</u>	<u>V0011</u>	☒	
Internal Standard Area and RT Summary (Form VIII-CLP-VOA)	<u>V0017</u>	<u>V0021</u>	☒	
<u>IDC STUDY</u>	<u>V0022</u>	<u>—</u>	☒	
b. <u>Sample Data</u>				
TCL Results (Form I-CLP-VOA)	<u>V0024</u>	<u>V0170</u>	☒	
Tentatively Identified Compounds (Form I-CLP-VOA-TIC)			☒	
Reconstructed total ion chromatograms (RIC) for each sample			☒	
For each sample:				
Raw spectra and background-subtracted mass spectra of target compounds identified			☒	
Quantitation reports			☒	
Mass spectra of all reported TICs with three best library matches			☒	
c. <u>Standards Data</u> (All Instruments)				
Initial Calibration Data (Form VI-CLP-VOA)	<u>V0172</u>	<u>V0185</u>	☒	
RICs and Quant Reports for all Standards	<u>V0173</u>	<u>V0183</u>	☒	
Continuing Calibration (Form VII-CLP-VOA)	<u>V0212</u> , <u>V0219</u>	<u>V0204</u> , <u>V0216</u>	☒	
RICs and Quant Reports for all Standards	<u>V0220</u>	<u>V0225</u> , <u>V023</u>	☒	
d. <u>Raw QC Data</u>				
BFB	<u>V0225</u>	<u>V0230</u>	☒	
Blank Data	<u>V0231</u>	<u>V0201</u>	☒	
Matrix Spike Blank Data	<u>N/A</u>			
Matrix Spike Data	<u>N/A</u>			
Matrix Spike Duplicate Data	<u>N/A</u>			
<u>COPY OF CALCULATIONS</u>	<u>V0162</u>	<u>—</u>	☒	
5. <u>Semivolatiles Data</u>				
a. <u>QC Summary</u>				
Surrogate Percent Recovery Summary (Form II-CLP-SV)	<u>B0003</u>			
MS/MSD Summary (Form III-CLP-SV)	<u>B0003</u>	<u>—</u>	☒	
Method Blank Summary (Form IV-CLP-SV)	<u>B0004</u>	<u>B0005</u>	☒	
GC/MS Instrument Performance Check (Form V-CLP-SV)	<u>B0006</u>	<u>—</u>	☒	
Internal Standard Area and RT Summary (Form VIII-B-CLP-SV and Form VIII-C-CLP-SV)	<u>B0007</u>	<u>B0008</u>	☒	
<u>IDC STUDY</u>	<u>B0009</u>	<u>B0010</u>	☒	
	<u>B0011</u>	<u>B0012</u>	☒	

FORM DC-2-ORG-1

ORGANICS COMPLETE SDG FILE (CSF) INVENTORY SHEET (Cont.)

CASE NO. 12006 SDG NO. 0122 SDG NOS. TO FOLLOW _____ SAS NO. _____

	PAGE NOS.		CHECK	
	FROM	TO	LAB	NYSDEC
5. Semivolatiles Data (cont.)				
b. Sample Data				
TCL Results (Form I-CLP-SV)	<u>8004</u>	<u>8005</u>	☒	☐
Tentatively Identified Compounds (Form I-CLP-SV-TIC)			☒	☐
Reconstructed total ion chromatograms (RIC) for each sample			☒	☐
For each sample:				
Raw spectra and background-subtracted mass spectra of target compounds identified			☒	☐
Quantitation reports			☒	☐
Mass spectra of all reported TICs with three best library matches			☒	☐
GPC chromatograms (if GPC performed)	<u>N/A</u>		☐	☐
c. Standards Data (All Instruments)				
Initial Calibration Data (Form VI-CLP-SV)	<u>80037</u>	<u>80038</u>	☒	☐
RICs and Quant Reports for all Standards	<u>80039</u>	<u>80040</u>	☒	☐
Continuing Calibration (Form VII-CLP-SV)	<u>80041</u>	<u>80042</u>	☒	☐
RICs and Quant Reports for all Standards	<u>80043</u>	<u>80044</u>	☒	☐
d. QC Data				
DFTPP	<u>80045</u>	<u>80046</u>	☒	☐
Blank Data	<u>80047</u>	<u>80048</u>	☒	☐
Matrix Spike Blank Data	<u>80049</u>	<u>80050</u>	☒	☐
Matrix Spike Data	<u>N/A</u>		☐	☐
Matrix Spike Duplicate Data	<u>N/A</u>		☐	☐
COMPLETION EXAMPLE	<u>80051</u>	<u>80052</u>	☒	☐
6. Pesticides				
a. QC Summary				
Surrogate Percent Recovery Summary (Form II-CLP-PEST)			☐	☐
MS/MSD Summary (Form III-CLP-PEST)			☐	☐
Method Blank Summary (Form IV-CLP-PEST)			☐	☐
B. Sample Data				
TCL Results (Form I-CLP-PEST)			☐	☐
Chromatograms (Primary Column)			☐	☐
Chromatograms from second GC column confirmation			☐	☐
GC Integration report or data system printout and calibration plots			☐	☐
Manual work sheets			☐	☐
UV traces from GPC (if available)			☐	☐
For pesticides/Aroclors confirmed by GC/MS, copies of raw spectra and copies of background-subtracted mass spectra of target compounds (samples & standards)			☐	☐

FORM DC-2-ORG-2

ORGANICS COMPLETE SDG FILE (CSF) INVENTORY SHEET (Cont.)

CASE NO. <u>20016</u>	SDG NO. <u>0122</u>	SDG NOS. TO FOLLOW _____	SAS NO. _____

	PAGE NOS.		CHECK	
	FROM	TO	LAB	NYSDEC
6. Pesticides Data (cont.)				
c. Standards Data				
Initial Calibration of Single Component Analytes (Form VI-CLP-PEST-1 and PEST-2)	_____	_____	_____	_____
Initial Calibration of Multicomponent Analytes (Form VI-CLP-PEST-3)	_____	_____	_____	_____
Analyte Resolution Summary (Form VI-CLP-PEST-4)	_____	_____	_____	_____
Performance Evaluation Mixture (Form VI-CLP-PEST-5)	_____	_____	_____	_____
Individual Standard Mixture A (Form VI-CLP-PEST-6)	_____	_____	_____	_____
Individual Standard Mixture B (Form VI-CLP-PEST-7)	_____	_____	_____	_____
Calibration Verification Summary (Form VII-CLP-PEST-1)	_____	_____	_____	_____
Calibration Verification Summary (Form VII-CLP-PEST-2)	_____	_____	_____	_____
Analytical Sequence (Form VIII-CLP-PEST)	_____	_____	_____	_____
Florisil Cartridge Check (Form IX-CLP-PEST-1)	_____	_____	_____	_____
Pesticide GPC Calibration (Form IX-CLP-PEST-2)	_____	_____	_____	_____
Pesticides Identification Summary for Single Component Analytes (Form X-CLP-PEST-1)	_____	_____	_____	_____
Pesticides Identification Summary for Single Multicomponent Analytes (Form X-CLP-PEST-2)	_____	_____	_____	_____
Chromatograms and data system printouts A printout of retention times and corresponding peak areas or peak heights	_____	_____	_____	_____
d. Raw QC Data				
Blank Data	_____	_____	_____	_____
Matrix Spike Blank Data	_____	_____	_____	_____
Matrix Spike Data	_____	_____	_____	_____
Matrix Spike Duplicate Data	_____	_____	_____	_____
Raw GPC Data	_____	_____	_____	_____
Raw Florisil Data	_____	_____	_____	_____
7. Miscellaneous Data				
Original preparation and analysis forms or copies of preparation and analysis logbook pages	_____	_____	_____	_____
Internal sample and sample extract transfer chain-of-custody records	_____	_____	_____	_____
Screening records	_____	_____	_____	_____
All instrument output, including strip charts from screening activities (describe or list)	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____

VOA 10/14 10/17 ✓
 BNA 10/12 10/15 ✓

FORM DC-2-ORG-3

ORGANICS COMPLETE SDG FILE (CSF) INVENTORY SHEET (Cont.)

CASE NO. <u>22046</u>	SDG NO. <u>0127</u>	SDG NOS. TO FOLLOW _____	SAS NO. _____

PAGE NOS.		CHECK	
FROM	TO	LAB	NYSDEC

8. NYSDEC Shipping/Receiving Documents

Airbills (No. of shipments <u>1</u>)	<u>HAND DELIVERED</u>	<u>W/A</u>	_____	_____
Chain-of-Custody Records		<u>MO316</u>	<u>MO316</u>	<u>✓</u>
Sample Tags		<u>W/A</u>	_____	_____
Sample Log-In Sheet (Lab & DC-1)		<u>MO318</u>	<u>✓</u>	<u>✓</u>
SDG Cover Sheet		<u>MO319</u>	<u>✓</u>	_____
Miscellaneous Shipping/Receiving Records				
(describe or list)				
<u>ORIG EXT'L COC + CLSIS</u>		<u>MO326</u>	<u>MO316</u>	<u>✓</u>

9. Internal Lab Sample Transfer Records and Tracking Sheets

(describe or list)				
<u>ORIG INT'L COC</u>		<u>MO326</u>	<u>MO316</u>	<u>✓</u>

10. Other Records (describe or list)

Telephone Communication Log				
<u>NYSDEC Summary Pages</u>		<u>ACCT'S</u>	<u>ACCT'S</u>	<u>✓</u>
<u>SAMPLE DATA SUMMARY PGS (SDSP)</u>		<u>STUD</u>	<u>STUD</u>	<u>✓</u>

11. Comments: PAGES NOT LISTED ARE DIVIDERS. PACKAGE IS PAGINATION
AS FOLLOWS: INT'L A, VOA-V, BWA-S, METALS & CSF MSDS'S

Completed by:	<u>[Signature]</u>	<u>LYNN DANIELLO</u>	<u>PROJECT COORDINATOR</u>	<u>3/5/92</u>
(CLP Lab)	(Signature)	(Printed Name/Title)		(Date)

Verified by:	<u>[Signature]</u>	<u>LYNN DANIELLO</u>	<u>PROJECT COORDINATOR</u>	<u>3/5/92</u>
(CLP Lab)	(Signature)	(Printed Name/Title)		(Date)

Audited by:	_____	_____	_____
(NYSDEC)	(Signature)	(Printed Name/Title)	(Date)

INORGANICS COMPLETE SDG FILE (CSF) INVENTORY SHEET

LABORATORY NAME	H2M Labs Inc		CITY/STATE	MELVILLE, NY
CASE NO.	80076	SDG NO.	0122	SDG NOS. TO FOLLOW
CONTRACT NO.	C003180	ASP DATE	9/93 Rev.	SAS NO

All documents delivered in the complete SDG file must be original documents where possible. (REFERENCE EXHIBIT B, SECTION II AND III.)

	PAGE NOS.		CHECK	
	FROM	TO	LAB	NYSDEC
1. Inventory Sheet (Form DC-2) (Do not number)				
2. Cover Page	mcc2	-	✓	
3. Inorganic Analysis Data Sheet (FORM I - IN)	mcc4	mcc11	✓	
4. Initial & Continuing Calibration Verification (FORM IIA - IN)	mcc3	mcc20	✓	
5. CRDL Standards For AA and ICP (FORM IIB - IN)	mcc1	mcc2	✓	
6. Blanks (FORM III - IN)	mcc13	mcc25	✓	
7. ICP Interference Check Sample (FORM IV - IN)	mcc26	mcc28	✓	
8. Spike Sample Recovery (FORM VA - IN)	mcc24	mcc31	✓	
9. Post Digest Spike Sample Recovery (FORM VB - IN)	mcc31A	mcc33	✓	
10. Duplicates (FORM VI - IN)	mcc34	mcc36	✓	
11. Laboratory Control Sample (FORM VII - IN)	mcc37	-	✓	
12. Standard Addition Results (FORM VIII - IN)	mcc35	-	✓	
13. ICP Serial Dilutions (FORM IX - IN)	mcc39	mcc41	✓	
14. Instrument Detection Limits (FORM X - IN)	mcc42	mcc44	✓	
15. ICP Interference Correction Factors (FORM XIA - IN)	mcc45	mcc46	✓	
16. ICP Interference Correction Factors (FORM XIB - IN)	mcc47	-	✓	
17. ICP Linear Ranges (FORM XII - IN)	mcc48	mcc49	✓	
18. Preparation Log (FORM XIII - IN)	mcc50	mcc51	✓	
19. Analysis Run Log (FORM XIV - IN)	mcc52	mcc53	✓	
20. ICP Raw Data	mcc61	mcc73	✓	
21. Furnace AA Raw Data	mcc74	mcc75	✓	
22. Mercury Raw Data	mcc74	mcc75	✓	

4-1-12

CLA m0274 m0275

FORM DC-2-IN-1

Analytical Data Package For

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

REGION 0

CONTRACT #: C003180

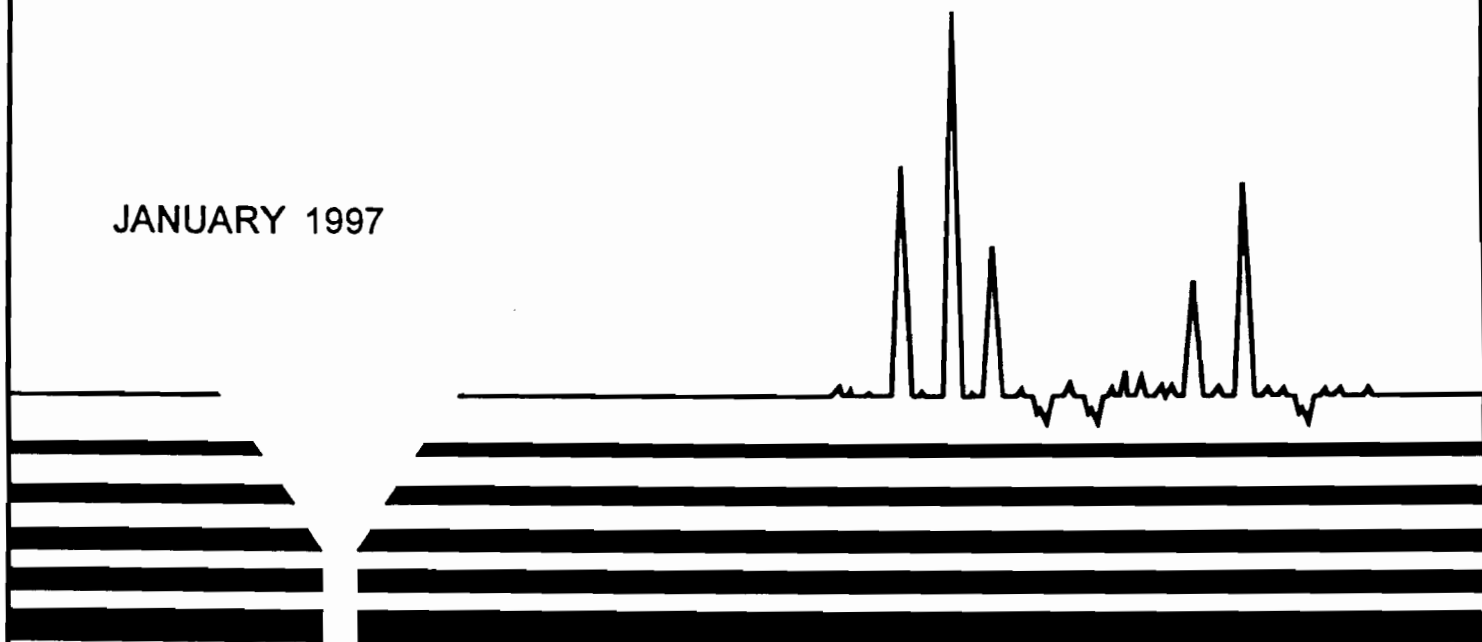
CASE #: RA096 SDG #: 0122

Water and Soil Samples

RECEIVED: January 23, 1997

SAMPLE DATA SUMMARY PACKAGE

JANUARY 1997



H2M LABS, INC.

Environmental Testing Laboratories

575 Broad Hollow Road, Melville, N.Y. 11747

SAMPLE DATA SUMMARY PACKAGE

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NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

REGION 0

SAMPLES RECEIVED: 1/23/97

CONTRACT NO.: C003180

CASE NO.: RA096

SDG NO.: 0122

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- 2. CHAIN OF CUSTODY DOCUMENTATION**
- 3. SDG NARRATIVES**
- 4. SAMPLE REPORTS**
 - 4.1 VOLATILES**
 - 4.2 SEMIVOLATILES**
 - 4.3 METALS**
- 5. SURROGATE SPIKE ANALYSIS RESULTS**
 - 5.1 VOLATILES**
 - 5.2 SEMIVOLATILES**
- 6. MATRIX SPIKE / MATRIX SPIKE DUPLICATE SUMMARY**
 - 6.1 SEMIVOLATILES**
- 7. DUPLICATE SUMMARY RESULTS**
 - 7.1 METALS**
- 8. SPIKE SAMPLE RESULTS**
 - 8.1 METALS**
- 9. BLANK SUMMARY DATA AND RESULTS**
 - 9.1 VOLATILES**
 - 9.2 SEMIVOLATILES**
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 - 10.1 VOLATILES**
 - 10.2 SEMIVOLATILES**

1. NYS DEC SUMMARY FORMS

H2M LABS, INC.

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SAMPLE IDENTIFICATION AND ANALYTICAL REQUIREMENT SUMMARY

SAMPLES RECEIVED 1/23/97

CONTRACT: C003180

CASE NO.: RA096

SDG NO.: 0122

Customer Sample Code	Laboratory Sample Code	Analytical Requirements					
		*VOA GC/MS	*BNA GC/MS	*VOA GC	*PEST/ PCB	*METALS	OTHER
B60211	9702025	X					
B60212	9702026	X					
B60213	9702027	X					
B60214	9702028		X				
B60215	9702029	X					
B60216	9702030	X					
B60217	9702031	X					
B60218	9702032	X					
B60219	9702033					X	
B60220	9702037	X					
B60221	9702038	X					
B60222	9702039	X					
B60223	9702040					X	
B60223A	9702041					X	
B60224	9702042					X	
B60224A	9702043					X	
B60225	9702044					X	
B60225A	9702045					X	

* Check Appropriate Boxes

* CLP, Non-CLP (Please indicate year of protocol) 1/13 2001

* TCL/TAL, HSL, Priority Pollutant

PAGE 1 OF 6

S 0003

**SAMPLE PREPARATION AND ANALYSIS SUMMARY
VOA ANALYSES**

Laboratory sample ID	Matrix	Date Collected	Date rec'd At Lab	LEVEL	Date
					Analyzed
B60211	SOIL	1/22/97	1/23/97	low	1/24/97
B60211DL	SOIL	1/22/97	1/23/97	low	1/27/97
B60212	SOIL	1/22/97	1/23/97	low	1/24/97
B60213	SOIL	1/22/97	1/23/97	low	1/24/97
B60215	SOIL	1/22/97	1/23/97	low	1/24/97
B60215DL	SOIL	1/22/97	1/23/97	low	1/27/97
B60216	SOIL	1/22/97	1/23/97	low	1/24/97
B60217	SOIL	1/22/97	1/23/97	low	1/24/97
B60218	SOIL	1/22/97	1/23/97	low	1/27/97
TRIP BLANK	water	1/22/97	1/23/97	low	1/30/97
B60220	water	1/22/97	1/23/97	low	1/29/97
B60220DL	water	1/22/97	1/23/97	low	1/30/97
B60221	water	1/22/97	1/23/97	low	1/29/97
B60221DL	water	1/22/97	1/23/97	low	1/29/97
B60222	water	1/22/97	1/23/97	low	1/28/97
B60222DL	water	1/22/97	1/23/97	low	1/28/97

SEMIVOLATILE SAMPLE PREPARATION AND ANALYSIS SUMMARY

SDG No.: NDECB-0122

SAMPLE ID	MATRIX	PROT- OCOL	EXTR. METHOD	AUX. CLEAN	LEVEL	DIL. FACT.	DATE COLL.	DATE RCVD.	DATE EXTD.	DATE ANAL.
B60214	SOIL	CLP	SONC	GPC	LOW	1	1/22/97	1/23/97	1/24/97	2/18/97

S 0005

H2M LABS, INC.

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SAMPLE PREPARATION AND ANALYSIS SUMMARY

INORGANIC ANALYSES

SAMPLES RECEIVED 1/23/97

CONTRACT: C003180

CASE NO.: RA096

SDG NO.: 0122

[illegible]

* SEE INDIVIDUAL RUN SHEETS FOR EXACT DATES.

2. CHAIN OF CUSTODY DOCUMENTATION

EXTERNAL CHAIN OF CUSTODY

0122

PROJ. NO.		PROJECT NAME		Refrigerator #		SAMPLE CONTAINER DESCRIPTION		ANALYSIS REQUESTED		LAB I.D. No.		REMARKS	
DATE	TIME	MATRIX	FIELD I.D.	ORGANIC	INORG.	ORGANIC	INORG.	ORGANIC	INORG.	LAB I.D. No.	REMARKS	REMARKS	
1/22/97	9:00	S.S.	B60211 5-7'	X		X				9702025			
1/22/97	9:05	S.S.	B60212 10-12'	X		X							
1/22/97	9:10	S.S.	B60213 15-17'	X		X							
1/22/97	9:15	S.S.	B60214 17-19'	X		X							
1/22/97	9:20	S.S.	B60215 20-22'	X		X							
1/22/97	9:25	S.S.	B60216 25-27'	X		X							
1/22/97	10:05	S.S.	B60217 30-32'	X		X							
1/22/97	11:00	S.S.	B60218 35-37'	X		X							
1/22/97	11:40	S.S.	B60219 35-37'	X		X							
DELIVERABLES:				TOTAL NO. OF CONTAINERS		4							
PROJECT NAME				Arling									
SAMPLERS: (Signature)/Client				D. G. Jones (NYDEC)									
DELIVERABLES:				AS-70									

Relinquished by: (Signature)		Date	time	Received by: (Signature)	Date	time
D. G. Jones		1/22/97	10:25			
Relinquished by: (Signature)		Date	time	Received by: (Signature)	Date	time
Relinquished by: (Signature)		Date	time	Received for Laboratory by: (Signature)	Date	time
					1/23/97	10:24

LABORATORY USE ONLY	
COE Tape was: 1) Shipped or Hand Delivered ☒ or Airbill ☒ 2) Ambient or Chilled ☒ 3) Recycled in Good Condition ☒ or ☒ 4) Properly Preserved ☒ or ☒ 5) Samples returned to lab. _____ hours from Collection	
COE Record Present and Copying Upon Sample Rec'd. ☒	

INTERNAL CHAIN OF CUSTODY

CLIENT: NDEC DELIVERABLES: AS-70 ^{AL70} TURN AROUND TIME: Stand
 SDG #: 0122 CASE #: RA096 ^{RA-24} MATRIX: 50 pH CHECK Y or N

REMARKS:

RECEIVED BY: TAS SIGNATURE: [Signature] DATE: 1-23-97 TIME: 10:25

CLIENT I.D.	H2M LAB #	DATE COLLECTED	BOTTLE TYPE	# OF BOTTLES	TESTS REQUESTED
1 B60211	9702025	1-22-97	A	1	PUTCL, IS
2 B60212	026				
3 B60213	027				
4 B60215	9702029				
5 B60216	030				
6 B60217	031				
7 B60218	032				
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					

COPY
ORIGINAL LOCATED
DATE 3/21/97

P 0016

S 0010

CLIENT: NDECIB 11/24/97
SDG #: 0122

[illegible]

P 0017

§ 0011

INTERNAL CHAIN OF CUSTODY

CLIENT: NDEC DELIVERABLES: AS-70 ¹⁶⁷⁰ ₁₋₂₄ TURN AROUND TIME: Stand
 SDG #: 0122 CASE #: RA096 MATRIX: ML pH CHECK Y or N

REMARKS:

RECEIVED BY: TAJ SIGNATURE: [Signature] DATE: 1-23-97 TIME: 10:25

CLIENT LD.	H2M LAB #	DATE COLLECTED	BOTTLE TYPE	# OF BOTTLES	TESTS REQUESTED
1 B60220	9702037	1-22-97	D	2	PuTCL
2 B60221	↓ 038	↓	↓	↓	↓
3 B60222	↓ 039	↓	↓	↓	↓
4 B60223 Trip Blank	9702046	↓	↓	↓	↓
5 B60223A					
6 B60224					
7 B60224A					
8 B60225					
9 B60225A					
10 Trip Blank					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					

COPY
ORIGINAL LOCATED
IN [] D []
T [] E []

TAJ 1-23-97

S 0012

P 0019

CLIENT:

SDG #:6

[illegible]

Р 3028 0013

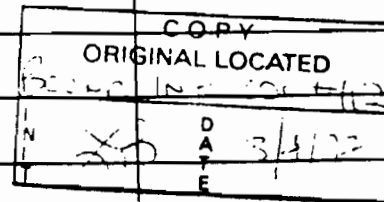
INTERNAL CHAIN OF CUSTODY

CLIENT: NDECB DELIVERABLES: AS70 ⁽²⁰¹⁻²⁴⁾ AC70 TURN AROUND TIME Stand
SDG #: 0122 CASE #: RA096 MATRIX: SO pH CHECK Y or N

REMARKS: _____

RECEIVED BY: TAS SIGNATURE TAS DATE 1-23-97 TIME: 10:25

CLIENT LD.	H2M LAB #	DATE COLLECTED	BOTTLE TYPE	# OF BOTTLES	TESTS REQUESTED
1 <u>B5024</u>	<u>9702028</u>	<u>1-22-97</u>	<u>B</u>	<u>1</u>	<u>BATCL, XBATCL</u>
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					



S 0014

INTERNAL CHAIN OF CUSTODY

CLIENT: NDFCB DELIVERABLES: AS 70 AC 70 TURN AROUND TIME: Stand
 SDG #: 0122 CASE #: RA096 801124/97 MATRIX: SO/GW pH CHECK ☒ Y or N

REMARKS:

RECEIVED BY: TAT SIGNATURE: TAT DATE: 1-23-97 TIME: 10:25

CLIENT LD.	H2M LAB #	DATE COLLECTED	BOTTLE TYPE	# OF BOTTLES	TESTS REQUESTED
1 <u>219 TAT 1/23/97</u> <u>B60209 MS/MSD</u>	<u>9702033</u>	<u>1-22-97</u>	<u>TAT 1/23/97</u> <u>AB</u>	<u>1</u>	<u>TCL Metals</u> ^{TS} <u>dg</u>
2 <u>B60223</u>	<u>9702040</u>	<u>↓</u>	<u>EN</u>	<u>1</u>	<u>↓</u> <u>dg</u>
3 <u>B60223A</u>	<u>041</u>	<u>↓</u>	<u>↓</u>	<u>1</u>	<u>DTCL Metals</u> ^{dg}
4 <u>B60224</u>	<u>042</u>	<u>↓</u>	<u>↓</u>	<u>1</u>	<u>TCL Metals</u> ^{dg}
5 <u>B60224A</u>	<u>043</u>	<u>↓</u>	<u>↓</u>	<u>1</u>	<u>DTCL Metals</u> ^{dg}
6 <u>B60225 MS/MSD</u>	<u>044</u>	<u>↓</u>	<u>↓</u>	<u>3</u>	<u>TCL Metals</u> ^{dg}
7 <u>B60225A MS/MSD</u>	<u>045</u>	<u>↓</u>	<u>↓</u>	<u>3</u>	<u>DTCL Metals</u> ^{dg}
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					

COPY	
ORIGINAL LOCATED	
INIT	DATE
<u>TAT</u>	<u>1/23/97</u>

S 0016

H2M LABS, INC.

Page 2 of 3

CLIENT: NDEC

SDG #: 0122

COPY	
ORIGINAL LOCATED	
DATE	3/1/97

INTERNAL CHAIN OF CUSTODY

DATE	TIME	SAMPLE RELINQUISHED BY	SAMPLE RECEIVED BY	BOTTLE TYPE	PURPOSE OF CHANGE OF CUSTODY	INIT.
1/23/97	1430	SIGN <i>[Signature]</i>	SIGN <i>[Signature]</i>	AlB, En	prep analysis	
1/27/97	1420	SIGN <i>[Signature]</i>	SIGN <i>[Signature]</i>	all B	T.S.	
1/27/97	1450	SIGN <i>[Signature]</i>	SIGN <i>[Signature]</i>	all B	storage	
1/30/97	8:00	SIGN <i>[Signature]</i>	SIGN <i>[Signature]</i>	all B	Hg prep	
1/30/97	9:30	SIGN <i>[Signature]</i>	SIGN <i>[Signature]</i>	all B	storage	
1/31/97	6:15	SIGN <i>[Signature]</i>	SIGN <i>[Signature]</i>	all B + D	Hg analysis	
2/2/97	1530	SIGN <i>[Signature]</i>	SIGN <i>[Signature]</i>	All B, EN	storage	
Feb 2/97	18:30	SIGN <i>[Signature]</i>	SIGN <i>[Signature]</i>	All B, En	Digestion	
Feb 3/97	01:15	SIGN <i>[Signature]</i>	SIGN <i>[Signature]</i>	All B + Fe	Storage	
2/3/97	845	SIGN <i>[Signature]</i>	SIGN <i>[Signature]</i>	All B, EN + Digs	storage	
2/14/97	1505	SIGN <i>[Signature]</i>	SIGN <i>[Signature]</i>	All Digs	storage	
2/15/97	11:00	SIGN <i>[Signature]</i>	SIGN <i>[Signature]</i>	All fl digs	ICP (Trace)	
2/15/97	14:00	SIGN <i>[Signature]</i>	SIGN <i>[Signature]</i>	All fl digs	Storage	
2/18/97	910	SIGN <i>[Signature]</i>	SIGN <i>[Signature]</i>	All fl digs	Storage	
2/18/97	900	SIGN <i>[Signature]</i>	SIGN <i>[Signature]</i>	all fl digs	ICP (all)	
2/18/97	1530	SIGN <i>[Signature]</i>	SIGN <i>[Signature]</i>	All Fl digs	continued 61 Analysis	
2/18/97	1505	SIGN <i>[Signature]</i>	SIGN <i>[Signature]</i>	All Fl digs	Storage	
2/21/97	1500	SIGN <i>[Signature]</i>	SIGN <i>[Signature]</i>	All Fl digs	ISACU Digs	
2/21/97	17:00	SIGN <i>[Signature]</i>	SIGN <i>[Signature]</i>	All Fl digs	Storage	
2/22/97	9:30	SIGN <i>[Signature]</i>	SIGN <i>[Signature]</i>	All Fl digs	ICP (all)	
2/23/97	13:30	SIGN <i>[Signature]</i>	SIGN <i>[Signature]</i>	All Fl digs	Storage	
2/26/97	11:00	SIGN <i>[Signature]</i>	SIGN <i>[Signature]</i>	All Fl digs	ICP (all)	
2/26/97	16:00	SIGN <i>[Signature]</i>	SIGN <i>[Signature]</i>	All Fl digs	Storage	
2/27/97	745	SIGN <i>[Signature]</i>	SIGN <i>[Signature]</i>	All Fl digs	Storage	

P 0148 0017

3. SDG NARRATIVES

SDG NARRATIVE FOR VOLATILES

SAMPLES RECEIVED: 1/23/97

CONTRACT #: C003180

CASE #: RA096

SDG #: 0122

For Samples:	B60211	B60218
	B60212	B60220
	B60213	B60221
	B60215	B600222
	B60216	TRIP BLANK
	B60217	

The above soil and water samples were analyzed according to the requirements of the NYSDEC ASP method 91-1 for the TCL volatile organic analytes. No matrix spike/matrix spike duplicate was submitted with this SDG.

Sample B60220 had a high surrogate recoveries for d-4 1,2-dichloroethane. All surrogate recoveries were acceptable in the dilution of this sample. The recovery of this analyte was also out in the diluted analysis of sample B60221.

The following soil samples required re-analysis at lower sample volumes due to calibration exceedences:

B60211

B60215

The re-analysis did not show consistent results for trichloroethane. Surrogate recoveries were reproducible.

The following water samples required re-analysis at dilutions due to levels of targeted analytes above the calibration range:

B60220

B60221

B60222

Both sets of data are submitted.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his designee, as verified by the following signature.

Date Reported: March 3, 1997

*
* *Joann M. Slavin* *
*

Joann M. Slavin
Quality Assurance Manager

SDG NARRATIVE FOR BASE NEUTRAL ACID

CONTRACT# C003180

CASE# RA096

SDG#: 0122

SAMPLE RECEIVED 01/23/97

FOR SAMPLE: B60214

The above soil sample was analyzed according to the requirements of the NYSDEC ASP method 91-1 for the TCL base-neutral/acid extractable analytes. No matrix spike/matrix spike duplicate was analyzed with this SDG, however a lab fortified blank was included.

A majority of the recoveries of the lab fortified blank were within the QC limits except for:

2,4 dimethylphenol	20%	(lower limit 31%)
N-nitrosodiphenylamine	140%	(upper limit 124%)
Chrysene	137%	(125%)
Dibenz(a,h) anthracene	140%	(131%)
Benzo (g,h,i) perylene	135%	(131%)

These recoveries do not impact the results reported for the sample.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his designee, as verified by the following signature.

Date Reported: February 20, 1997

* *Joann Slavin* *

Joann Slavin
Quality Assurance Manager

SDG NARRATIVE FOR METALS ANALYSIS

SAMPLES RECEIVED: 1/23/97

CONTRACT #: C003180

CASE #: RA096

SDG #: 0122

Page 1 of 2

For Samples:

<u>CLIENT ID</u>	<u>SOFTWARE CODE</u>
B60219 MS/MSD	B60219 MS/MSD
B60223	B60223
B60223A	B223AX
B60224	B60224
B60224A	B224AX
B60225 MS/MSD	B60225 MS/MSD
B60225A MS/MSD	B225AX MS/MSD

ICP analysis was performed on a TJA61E Trace Analyzer and a TJA61 using method 200.7 CLP-M. Mercury was analyzed on a Leeman PS200 using method 245.1 CLP-M and 245.5 CLP-M.

Samples B223AX (9702041); B224AX (9702043) and B225AX (9702045) were field filtered and analyzed for dissolved metals.

The matrix spike recoveries for sample B60219 (9702033) were within 75-125%.

The chromium and iron duplicate results for sample B60219 (9702033) were not within the required control limits. All chromium and iron soil results are reported flagged with an "*" on Forms 1.

The ICP serial dilution results for sample B60219 (9702033) were within the required control limit (10% difference).

The antimony and chromium matrix spike recoveries for sample B60225 (9702044) were not within 75-125%. All total antimony and chromium water results are reported flagged with an "N" on Forms 1.

The chromium post spike was inadvertently spiked at 20 ug/l instead of 200 ug/l. The recovery was 119.5%.

The duplicate results for sample B60225 (9702044) were within the required control limits.

The lead ICP serial dilution results for sample B60225 (9702044) was not within the required control limit (10% difference). All total lead water results are reported flagged with an "E" on Forms 1.

The matrix spike recoveries and duplicate results for sample B225AX (9702045) were within the required control limits.

The copper ICP serial dilution results for sample B225AX (9702045) were not within the required control limit (10% difference). All dissolved copper results are reported flagged with an "E" on Forms 1.

SDG NARRATIVE FOR METALS ANALYSIS

SAMPLES RECEIVED: 1/23/97

CONTRACT #: C003180

CASE #: RA096

SDG #: 0122

Page 1 of 2

A 1:20 dilution was required for sample B60223 (9702040) and a 1:2 dilution for sample B60224 (9702042) to bring iron within the linear range of the instrument. Due to interference by iron, the dilution was also applied to the following analytes: antimony, cadmium, lead, magnesium, manganese, selenium, silver, thallium, vanadium, and zinc. These dilutions were required for accurate interelement corrections to be applied.

Two wavelengths were used for iron analysis on the TJA61E Trace Analyzer. The two lines allow for a greater sensitivity across a broad concentration range. A second ICV and CCV (ICVL, CCVL) were analyzed for the low level iron analysis.

All other quality control requirements were met. No problems were encountered.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his designee, as verified by the following signature.

Date Reported: March 3, 1997

*  *
*

Maureen Martin
Metals Supervisor

H2M LABS, INC.

4. **SAMPLE REPORTS**
 - 4.1 VOLATILES
 - 4.2 SEMIVOLATILES
 - 4.3 METALS

S 0023

H2M LABS, INC.

QUALIFIERS FOR REPORTING ORGANICS DATA

Value - If the result is a value greater than or equal to the quantification limit, report the value.

U - Indicates compound was analyzed for but not detected. The sample quantitation limit must be corrected for dilution and for percent moisture. For example, 10U for phenol in water if the sample final volume is the protocol-specified final volume. If a 1 to 10 dilution of extract is necessary, the reported limit is 100 U. For a soil sample, the value must also be adjusted for percent moisture. For example, if the sample had 24% moisture and a 1 to 10 dilution factor, the sample quantitation limit for phenol (330 U) would be corrected to

$$\frac{(330 \text{ U}) \times \text{df}}{D} \text{ where } D = \frac{100 - \% \text{ moisture}}{100}$$

and df = dilution factor

For example, at 24% moisture, $D = \frac{100 - 24}{100} = 0.76$

$$\frac{(330 \text{ U}) \times 10}{.76} = 4300 \text{ U rounded to the appropriate number of significant figures}$$

For semivolatile soil samples, the extract must be concentrated to 0.5 mL, and the sensitivity of the analysis is not compromised by the cleanup procedures. Similarly, pesticide samples subjected to GPC are concentrated to 5.0 mL. Therefore, the CRQL values in Exhibit C will apply to all samples, regardless of cleanup. However, if a sample extract cannot be concentrated to the protocol-specified volume (see Exhibit C), this fact must be accounted for in reporting the sample quantitation limit.

J - Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicates the presence of a compound that meets the identification criteria but the result is less than the specified quantification limit but greater than zero. (e.g.: If limit of quantification is 10 ug/l and a concentration of 3 ug/l is calculated, report as JJ.) The sample quantitation limit must be adjusted for dilution as discussed for the U flag.

N - Indicates presumptive evidence of a compound. This flag is only used for tentatively identified compounds, where the identification is based on a mass spectral library search. It is applied to all TIC results. For generic characterization of a TIC, such as chlorinated hydrocarbon, the N code is not used.

P - This flag is used for a pesticide/Aroclor target analyte when there is greater than 25% difference for detected concentrations between the two GC columns (see Form X). The lower of the two values is reported on Form I and flagged with a "P".

C - This flag applies to pesticide results where the identification has been confirmed by GC/MS. If GC/MS confirmation was attempted but was unsuccessful, do not apply this flag, instead use a Laboratory-defined flag, discussed below.

H2M LABS, INC.

B - This flag is used when the analyte is found in the associated blank as well as in the sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action. This flag must be used for a TIC as well as for a positively identified target compound.

E - This flag identifies compounds whose concentrations exceed the calibration range of the GC/MS instrument for that specific analysis. If one or more compounds have a response greater than full scale, except as noted in Exhibit D, the sample or extract must be diluted and re-analyzed according to the specifications in Exhibit D. All such compounds with a response greater than full scale should have the concentration flagged with an "E" on the Form I for the original analysis. If the dilution of the extract causes any compounds identified in the first analysis to be below the calibration range in the second analysis, then the results of both analyses shall be reported on separate copies of Form I. The Form I for the diluted sample shall have the "DL" suffix appended to the sample number. NOTE: For total xylenes, where three isomers are quantified as two peaks, the calibration range of each peak should be considered separately, e.g., a diluted analysis is not required for total xylenes unless the concentration of the peak representing the single isomer exceeds 200 ug/l or the peak representing the two coeluting isomers on that GC column exceeds 400 ug/l. Similarly, if the two 1,2-Dichloroethene isomers coelute, a diluted analysis is not required unless the concentration exceeds 400 ug/l.

D - This flag identifies all compounds identified in an analysis at a secondary dilution factor. If a sample or extract is re-analyzed at a higher dilution factor, as in the "E" flag above, the "DL" suffix is appended to the sample number on the Form I for the diluted sample, and all concentration values reported on that Form I are flagged with the "D" flag. This flag alerts data users that any discrepancies between the concentrations reported may be due to dilution of the sample or extract.

A - This flag indicates that a TIC is a suspected aldol-condensation product.

X - Other specific flags may be required to properly define the results. If used, they must be fully described, and such description attached to the Sample Data Summary Package and the SDG narrative. Begin by using "X". If more than one flag is required, use "Y" and "Z" as needed. If more than five qualifiers are required for a sample result, use the "X" flag to combine several flags as needed. For instance, the "X" flag might combine "A", "B", and "D" flags for some samples. The Laboratory defined flags limited to the letters "X", "Y" and "Z".

The combination of flags "BU" or "UB" is expressly prohibited. Blank contaminants are flagged "B" only when they are detected in the sample.

QUALIFIERS FOR METALS ANALYSIS

Q (Quality Control) Qualifiers

- E - The reported value is estimated because of the presence of interference. An explanatory not is included in the SDG narrative.
- M - Duplicate injection precision not met.
- N - Matrix spike sample recovery not within control limits.
- S - The reported value was determined by the Method of Standard Additions (MSA).
- + - Correlation coefficient for the MSA is less than 0.995
- W - Post digestion spike for Furnace AA analysis is out of control limits (85-115%), while sample absorbance is less than 50% of spike absorbance.
- * - Duplicate analysis is not within control limits.

C (Concentration) Qualifiers

- B - Entered if the reported value is less than the Contract Required Detection Limit (CRDL) but greater than the Instrument Detection Limit (IDL).
- U - Entered if the analyte was analyzed for but not detected, i.e., less than the IDL.

M (Method) Qualifiers

- P - Analyzed by ICP.
- A - Analyzed by Flame AA.
- F - Analyzed by Furnace AA.
- CV - Analyzed by Manual Cold Vapor techniques.
- AV - Analyzed by Automated Cold Vapor techniques.
- C - Analyzed by Manual Spectrophotometric Method.
- CA - Analyzed by Midi-distillation Spectrophotometric Method.
- NR - Analyte not Required.

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B60211

Lab Name: H2M LABS INC. Contract: _____

Lab Code: _____ Case No.: RA096 SAS No.: _____ SDG No.: NDEC012

Matrix: (soil/water) SOIL Lab Sample ID: 9702025

Sample wt/vol: 5.0 (g/ml) G Lab File ID: P05476.D

Level: (low/med) LOW Date Received: 01/23/97

% Moisture: not dec. 6.5 Date Analyzed: 01/24/97

GC Column: RTX502. ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/KG	Q
74-87-3	Chloromethane	11	U	U
74-83-9	Bromomethane	11	U	U
75-01-4	Vinyl Chloride	11	U	U
75-00-3	Chloroethane	11	U	U
75-09-2	Methylene Chloride	1	J	J
67-64-1	Acetone	11	U	U
75-15-0	Carbon Disulfide	11	U	U
75-35-4	1,1-Dichloroethene	11	U	U
75-34-4	1,1-Dichloroethane	11	U	U
540-59-0	1,2-Dichloroethene (total)	11	U	U
67-66-3	Chloroform	11	U	U
107-06-2	1,2-Dichloroethane	11	U	U
78-93-3	2-Butanone	11	U	U
71-55-6	1,1,1-Trichloroethane	1	J	J
56-23-5	Carbon Tetrachloride	11	U	U
75-27-4	Bromodichloromethane	11	U	U
78-87-5	1,2-Dichloropropane	11	U	U
10061-01-5	cis-1,3-Dichloropropene	11	U	U
79-01-6	Trichloroethene	380	E	E
71-43-2	Benzene	11	U	U
124-48-1	Dibromochloromethane	11	U	U
10061-02-6	trans-1,3-Dichloropropene	11	U	U
79-00-5	1,1,2-Trichloroethane	11	U	U
75-25-2	Bromoform	11	U	U
108-10-1	4-Methyl-2-Pentanone	11	U	U
591-78-6	2-Hexanone	11	U	U
127-18-4	Tetrachloroethene	2	J	J
79-34-5	1,1,2,2-Tetrachloroethane	11	U	U
108-88-3	Toluene	11	U	U
108-90-7	Chlorobenzene	11	U	U
100-41-4	Ethylbenzene	11	U	U
100-42-5	Styrene	11	U	U
1330-20-7	Xylene (total)	11	U	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

B60211

Lab Name: H2M LABS INC.

Contract: _____

Lab Code: _____

Case No.: RA096

SAS No.: _____

SDG No.: NDEC012

Matrix: (soil/water) SOIL

Lab Sample ID: 9702025

Sample wt/vol: 5.0 (g/ml) G

Lab File ID: P05476.D

Level: (low/med) LOW

Date Received: 01/23/97

% Moisture: not dec. 6.5

Date Analyzed: 01/24/97

GC Column: RTX502 ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume 1 (uL)

Soil Aliquot Volume: 1 (uL)

CONCENTRATION UNITS:

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

Number TICs found: 0

CAS NO.	COMPOUND	RT	EST. CONC.	Q

S 0028

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B60211DL

Lab Name: H2M LABS INC. Contract: _____

Lab Code: _____ Case No.: RA096 SAS No.: _____ SDG No.: NDEC012

Matrix: (soil/water) SOIL Lab Sample ID: 9702025DL

Sample wt/vol: 2.0 (g/ml) G Lab File ID: P05486.D

Level: (low/med) LOW Date Received: 01/23/97

% Moisture: not dec. 6.5 Date Analyzed: 01/27/97

GC Column: RTX502. ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

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

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

B60211DL

Lab Name: H2M LABS INC. Contract: _____
Lab Code: _____ Case No.: RA096 SAS No.: _____ SDG No.: NDEC012
Matrix: (soil/water) SOIL Lab Sample ID: 9702025DL
Sample wt/vol: 2.0 (g/ml) G Lab File ID: P05486.D
Level: (low/med) LOW Date Received: 01/23/97
% Moisture: not dec. 6.5 Date Analyzed: 01/27/97
GC Column: RTX502. ID: 0.53 (mm) Dilution Factor: 1.0
Soil Extract Volume 1 (uL) Soil Aliquot Volume: .1 (uL)

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

Number TICs found: 0

CAS NO.	COMPOUND	RT	EST. CONC.	Q

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B60212

Lab Name: H2M LABS INC. Contract: _____

Lab Code: _____ Case No.: RA096 SAS No.: _____ SDG No.: NDEC012

Matrix: (soil/water) SOIL Lab Sample ID: 9702026

Sample wt/vol: 5.0 (g/ml) G Lab File ID: P05477.D

Level: (low/med) LOW Date Received: 01/23/97

% Moisture: not dec. 3.7 Date Analyzed: 01/24/97

GC Column: RTX502 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

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

S 0031

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

B60212

Lab Name: H2M LABS INC.

Contract: _____

Lab Code: _____

Case No.: RA096

SAS No.: _____

SDG No.: NDEC012

Matrix: (soil/water) SOIL

Lab Sample ID: 9702026

Sample wt/vol: 5.0 (g/ml) G

Lab File ID: P05477.D

Level: (low/med) LOW

Date Received: 01/23/97

% Moisture: not dec. 3.7

Date Analyzed: 01/24/97

GC Column: RTX502. ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume 1 (uL)

Soil Aliquot Volume: 1 (uL)

CONCENTRATION UNITS:

(ug/L or ug/Kg)

UG/KG

Number TICs found: 0

CAS NO.	COMPOUND	RT	EST. CONC.	Q

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B60213

Lab Name: H2M LABS INC. Contract: _____

Lab Code: _____ Case No.: RA096 SAS No.: _____ SDG No.: NDEC012

Matrix: (soil/water) SOIL Lab Sample ID: 9702027

Sample wt/vol: 5.0 (g/ml) G Lab File ID: P05478.D

Level: (low/med) LOW Date Received: 01/23/97

% Moisture: not dec. 4.3 Date Analyzed: 01/24/97

GC Column: RTX502 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

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

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

B60213

Lab Name: H2M LABS INC.

Contract: _____

Lab Code: _____

Case No.: RA096

SAS No.: _____

SDG No.: NDEC012

Matrix: (soil/water) SOIL

Lab Sample ID: 9702027

Sample wt/vol: 5.0 (g/ml) G

Lab File ID: P05478.D

Level: (low/med) LOW

Date Received: 01/23/97

% Moisture: not dec. 4.3

Date Analyzed: 01/24/97

GC Column: RTX502. ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume 1 (uL)

Soil Aliquot Volume: 1 (uL)

CONCENTRATION UNITS:

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

Number TICs found: 0

CAS NO.	COMPOUND	RT	EST. CONC.	Q

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B60214

Lab Name: H2M LABS, INC. Contract: NYSDEC

Lab Code: 10478 Case No.: RA096 SAS No.: _____ SDG No.: 0122

Matrix: (soil/water) SOIL Lab Sample ID: 9702028

Sample wt/vol: 30 (g/ml) G Lab File ID: C03348.D

Level: (low/med) LOW Date Received: 01/23/97

% Moisture: 5.3 decanted: (Y/N) N Date Extracted: 01/24/97

Concentrated Extract Volume: 500 (uL) Date Analyzed: 02/18/97

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 8

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/KG	Q
108952	Phenol	350	U	
111444	bis(2-Chloroethyl)ether	350	U	
95578	2-Chlorophenol	350	U	
541731	1,3-Dichlorobenzene	350	U	
106467	1,4-Dichlorobenzene	350	U	
95501	1,2-Dichlorobenzene	350	U	
95487	2-Methylphenol	350	U	
108601	2,2'-oxybis(1-Chloropropane)	350	U	
106445	4-Methylphenol	350	U	
621647	N-Nitroso-di-n-propylamine	350	U	
67721	Hexachloroethane	350	U	
98953	Nitrobenzene	350	U	
78591	Isophorone	350	U	
88755	2-Nitrophenol	350	U	
105679	2,4-Dimethylphenol	350	U	
111911	bis(2-Chloroethoxy)methane	350	U	
120832	2,4-Dichlorophenol	350	U	
120821	1,2,4-Trichlorobenzene	350	U	
91203	Naphthalene	350	U	
106478	4-Chloroaniline	350	U	
87683	Hexachlorobutadiene	350	U	
59507	4-Chloro-3-methylphenol	350	U	
91576	2-Methylnaphthalene	350	U	
77474	Hexachlorocyclopentadiene	350	U	
88062	2,4,6-Trichlorophenol	350	U	
95954	2,4,5-Trichlorophenol	880	U	
91587	2-Chloronaphthalene	350	U	
88744	2-Nitroaniline	880	U	
131113	Dimethylphthalate	350	U	
208968	Acenaphthylene	350	U	
606202	2,6-Dinitrotoluene	350	U	
99092	3-Nitroaniline	880	U	
83329	Acenaphthene	350	U	
51285	2,4-Dinitrophenol	880	U	
100027	4-Nitrophenol	880	U	
132649	Dibenzofuran	350	U	
121142	2,4-Dinitrotoluene	350	U	

S 0035

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B60214

Lab Name: H2M LABS, INC. Contract: NYSDEC

Lab Code: 10478 Case No.: RA096 SAS No.: SDG No.: 0122

Matrix: (soil/water) SOIL Lab Sample ID: 9702028

Sample wt/vol: 30 (g/ml) G Lab File ID: C03348.D

Level: (low/med) LOW Date Received: 01/23/97

% Moisture: 5.3 decanted:(Y/N) N Date Extracted: 01/24/97

Concentrated Extract Volume: 500 (uL) Date Analyzed: 02/18/97

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH: 8

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/KG	Q
84662	Diethylphthalate	350	U	
86737	Fluorene	350	U	
7005723	4-Chlorophenyl-phenylether	350	U	
100016	4-Nitroaniline	880	U	
534521	4,6-Dinitro-2-methylphenol	880	U	
86306	N-Nitrosodiphenylamine	350	U	
101553	4-Bromophenyl-phenylether	350	U	
118741	Hexachlorobenzene	350	U	
87865	Pentachlorophenol	880	U	
85018	Phenanthrene	55	J	
120127	Anthracene	350	U	
86748	Carbazole	350	U	
84742	Di-n-butylphthalate	350	U	
206440	Fluoranthene	110	J	
129000	Pyrene	110	J	
85687	Butylbenzylphthalate	350	U	
56553	Benzo[a]anthracene	58	J	
91941	3,3'-Dichlorobenzidine	350	U	
218019	Chrysene	99	J	
117817	bis(2-Ethylhexyl)phthalate	400		
117840	Di-n-octylphthalate	350	U	
205992	Benzo[b]fluoranthene	64	J	
207089	Benzo[k]fluoranthene	69	J	
50328	Benzo[a]pyrene	55	J	
193395	Indeno[1,2,3-cd]pyrene	49	J	
53703	Dibenz[a,h]anthracene	350	U	
191242	Benzo[g,h,i]perylene	69	J	

S 0036

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

B60214

Lab Name: H2M LABS, INC. Contract: NYSDEC
Lab Code: 10478 Case No.: RA096 SAS No.: SDG No.: 0122
Matrix: (soil/water) SOIL Lab Sample ID: 9702028
Sample wt/vol: 30 (g/ml) G Lab File ID: C03348.D
Level: (low/med) LOW Date Received: 01/23/97
% Moisture: 5.3 decanted: (Y/N) N Date Extracted: 01/24/97
Concentrated Extract Volume: 500 (uL) Date Analyzed: 02/18/97
Injection Volume: 2.0 (uL) Dilution Factor: 1.0
GPC Cleanup: (Y/N) Y pH: 8

CONCENTRATION UNITS:

Number TICs found: 75 (ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 000141-79-7	3-Penten-2-one, 4-methyl-	3.62	370	JN JQ
2. 000123-42-2	2-Pentanone, 4-hydroxy-4-methyl	4.33	9900	JN JQ
3.	unknown alkane	4.49	710	J J
4.	unknown alkane	4.59	820	J J
5.	unknown	5.33	710	J
6.	unknown	6.69	340	J
7. 000103-23-1	Hexanedioic acid, bis(2-ethylhexy	16.12	940	JN

(signature) 2/19/97

S 0037

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B60215

Lab Name: H2M LABS INC. Contract: _____

Lab Code: _____ Case No.: RA096 SAS No.: _____ SDG No.: NDEC012

Matrix: (soil/water) SOIL Lab Sample ID: 9702029

Sample wt/vol: 5.0 (g/ml) G Lab File ID: P05479.D

Level: (low/med) LOW Date Received: 01/23/97

% Moisture: not dec. 12.8 Date Analyzed: 01/24/97

GC Column: RTX502 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/KG	Q
74-87-3	Chloromethane	11	U	
74-83-9	Bromomethane	11	U	
75-01-4	Vinyl Chloride	11	U	
75-00-3	Chloroethane	11	U	
75-09-2	Methylene Chloride	11	U	
67-64-1	Acetone	410	E	
75-15-0	Carbon Disulfide	11	U	
75-35-4	1,1-Dichloroethene	11	U	
75-34-4	1,1-Dichloroethane	11	U	
540-59-0	1,2-Dichloroethene (total)	11	U	
67-66-3	Chloroform	11	U	
107-06-2	1,2-Dichloroethane	11	U	
78-93-3	2-Butanone	8	J	
71-55-6	1,1,1-Trichloroethane	2	J	
56-23-5	Carbon Tetrachloride	11	U	
75-27-4	Bromodichloromethane	11	U	
78-87-5	1,2-Dichloropropane	11	U	
10061-01-5	cis-1,3-Dichloropropene	11	U	
79-01-6	Trichloroethene	110		
71-43-2	Benzene	11	U	
124-48-1	Dibromochloromethane	11	U	
10061-02-6	trans-1,3-Dichloropropene	11	U	
79-00-5	1,1,2-Trichloroethane	11	U	
75-25-2	Bromoform	11	U	
108-10-1	4-Methyl-2-Pentanone	11	U	
591-78-6	2-Hexanone	2	J	
127-18-4	Tetrachloroethene	11	U	
79-34-5	1,1,2,2-Tetrachloroethane	11	U	
108-88-3	Toluene	6	J	
108-90-7	Chlorobenzene	11	U	
100-41-4	Ethylbenzene	11	U	
100-42-5	Styrene	11	U	
1330-20-7	Xylene (total)	11	U	

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

B60215

Lab Name: H2M LABS INC. Contract: _____
Lab Code: _____ Case No.: RA096 SAS No.: _____ SDG No.: NDEC012
Matrix: (soil/water) SOIL Lab Sample ID: 9702029
Sample wt/vol: 5.0 (g/ml) G Lab File ID: P05479.D
Level: (low/med) LOW Date Received: 01/23/97
% Moisture: not dec. 12.8 Date Analyzed: 01/24/97
GC Column: RTX502. ID: 0.53 (mm) Dilution Factor: 1.0
Soil Extract Volume 1 (uL) Soil Aliquot Volume: 1 (uL)

CONCENTRATION UNITS:

Number TICs found: 1 (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	RT	EST. CONC.	Q
1. 000110-43-0	2-Heptanone	18.43	15	JN

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B60215DL

Lab Name: H2M LABS INC. Contract: _____

Lab Code: _____ Case No.: RA096 SAS No.: _____ SDG No.: NDEC012

Matrix: (soil/water) SOIL Lab Sample ID: 9702029DL

Sample wt/vol: 2.0 (g/ml) G Lab File ID: P05487.D

Level: (low/med) LOW Date Received: 01/23/97

% Moisture: not dec. 6.8 Date Analyzed: 01/27/97

GC Column: RTX502 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/KG	Q
74-87-3	Chloromethane	27	U	
74-83-9	Bromomethane	27	U	
75-01-4	Vinyl Chloride	27	U	
75-00-3	Chloroethane	27	U	
75-09-2	Methylene Chloride	5	JB	
67-64-1	Acetone	430	B	
75-15-0	Carbon Disulfide	27	U	
75-35-4	1,1-Dichloroethene	27	U	
75-34-4	1,1-Dichloroethane	27	U	
540-59-0	1,2-Dichloroethene (total)	27	U	
67-66-3	Chloroform	27	U	
107-06-2	1,2-Dichloroethane	27	U	
78-93-3	2-Butanone	27	U	
71-55-6	1,1,1-Trichloroethane	27	U	
56-23-5	Carbon Tetrachloride	27	U	
75-27-4	Bromodichloromethane	27	U	
78-87-5	1,2-Dichloropropane	27	U	
10061-01-5	cis-1,3-Dichloropropene	27	U	
79-01-6	Trichloroethene	29		
71-43-2	Benzene	27	U	
124-48-1	Dibromochloromethane	27	U	
10061-02-6	trans-1,3-Dichloropropene	27	U	
79-00-5	1,1,2-Trichloroethane	27	U	
75-25-2	Bromoform	27	U	
108-10-1	4-Methyl-2-Pentanone	27	U	
591-78-6	2-Hexanone	27	U	
127-18-4	Tetrachloroethene	27	U	
79-34-5	1,1,2,2-Tetrachloroethane	27	U	
108-88-3	Toluene	3	J	
108-90-7	Chlorobenzene	27	U	
100-41-4	Ethylbenzene	27	U	
100-42-5	Styrene	27	U	
1330-20-7	Xylene (total)	27	U	

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

B60215DL

Lab Name: H2M LABS INC. Contract: _____
Lab Code: _____ Case No.: RA096 SAS No.: _____ SDG No.: NDEC012
Matrix: (soil/water) SOIL Lab Sample ID: 9702029DL
Sample wt/vol: 2.0 (g/ml) G Lab File ID: P05487.D
Level: (low/med) LOW Date Received: 01/23/97
% Moisture: not dec. 6.8 Date Analyzed: 01/27/97
GC Column: RTX502 ID: 0.53 (mm) Dilution Factor: 1.0
Soil Extract Volume 1 (uL) Soil Aliquot Volume: 1 (uL)

CONCENTRATION UNITS:

Number TICs found: 1 (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	RT	EST. CONC.	Q
1. 000110-43-0	2-Heptanone	18.46	13	JN

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B60216

Lab Name: H2M LABS INC. Contract: _____
 Lab Code: _____ Case No.: RA096 SAS No.: _____ SDG No.: NDEC012
 Matrix: (soil/water) SOIL Lab Sample ID: 9702030
 Sample wt/vol: 5.0 (g/ml) G Lab File ID: P05480.D
 Level: (low/med) LOW Date Received: 01/23/97
 % Moisture: not dec. 4.7 Date Analyzed: 01/24/97
 GC Column: RTX502 ID: 0.53 (mm) Dilution Factor: 1.0
 Soil Extract Volume _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/KG	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	10	U	
67-64-1	Acetone	8	J	
75-15-0	Carbon Disulfide	10	U	
75-35-4	1,1-Dichloroethene	10	U	
75-34-4	1,1-Dichloroethane	10	U	
540-59-0	1,2-Dichloroethene (total)	10	U	
67-66-3	Chloroform	10	U	
107-06-2	1,2-Dichloroethane	10	U	
78-93-3	2-Butanone	10	U	
71-55-6	1,1,1-Trichloroethane	10	U	
56-23-5	Carbon Tetrachloride	10	U	
75-27-4	Bromodichloromethane	10	U	
78-87-5	1,2-Dichloropropane	10	U	
10061-01-5	cis-1,3-Dichloropropene	10	U	
79-01-6	Trichloroethene	10	U	
71-43-2	Benzene	10	U	
124-48-1	Dibromochloromethane	10	U	
10061-02-6	trans-1,3-Dichloropropene	10	U	
79-00-5	1,1,2-Trichloroethane	10	U	
75-25-2	Bromoform	10	U	
108-10-1	4-Methyl-2-Pentanone	10	U	
591-78-6	2-Hexanone	10	U	
127-18-4	Tetrachloroethene	10	U	
79-34-5	1,1,2,2-Tetrachloroethane	10	U	
108-88-3	Toluene	10	U	
108-90-7	Chlorobenzene	10	U	
100-41-4	Ethylbenzene	10	U	
100-42-5	Styrene	10	U	
1330-20-7	Xylene (total)	10	U	

S 0042

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

B60216

Lab Name: H2M LABS INC. Contract: _____
Lab Code: _____ Case No.: RA096 SAS No.: _____ SDG No.: NDEC012
Matrix: (soil/water) SOIL Lab Sample ID: 9702030
Sample wt/vol: 5.0 (g/ml) G Lab File ID: P05480.D
Level: (low/med) LOW Date Received: 01/23/97
% Moisture: not dec. 4.7 Date Analyzed: 01/24/97
GC Column: RTX502 ID: 0.53 (mm) Dilution Factor: 1.0
Soil Extract Volume 1 (uL) Soil Aliquot Volume: 1 (uL)

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

Number TICs found: 0

CAS NO.	COMPOUND	RT	EST. CONC.	Q

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B60217

Lab Name: H2M LABS INC. Contract: _____

Lab Code: _____ Case No.: RA096 SAS No.: _____ SDG No.: NDEC012

Matrix: (soil/water) SOIL Lab Sample ID: 9702031

Sample wt/vol: 5.0 (g/ml) G Lab File ID: P05481.D

Level: (low/med) LOW Date Received: 01/23/97

% Moisture: not dec. 4.8 Date Analyzed: 01/24/97

GC Column: RTX502 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

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

74-87-3	Chloromethane	11	U
74-83-9	Bromomethane	11	U
75-01-4	Vinyl Chloride	11	U
75-00-3	Chloroethane	11	U
75-09-2	Methylene Chloride	11	U
67-64-1	Acetone	3	J
75-15-0	Carbon Disulfide	11	U
75-35-4	1,1-Dichloroethene	11	U
75-34-4	1,1-Dichloroethane	11	U
540-59-0	1,2-Dichloroethene (total)	11	U
67-66-3	Chloroform	11	U
107-06-2	1,2-Dichloroethane	11	U
78-93-3	2-Butanone	11	U
71-55-6	1,1,1-Trichloroethane	11	U
56-23-5	Carbon Tetrachloride	11	U
75-27-4	Bromodichloromethane	11	U
78-87-5	1,2-Dichloropropane	11	U
10061-01-5	cis-1,3-Dichloropropene	11	U
79-01-6	Trichloroethene	11	U
71-43-2	Benzene	11	U
124-48-1	Dibromochloromethane	11	U
10061-02-6	trans-1,3-Dichloropropene	11	U
79-00-5	1,1,2-Trichloroethane	11	U
75-25-2	Bromoform	11	U
108-10-1	4-Methyl-2-Pentanone	11	U
591-78-6	2-Hexanone	11	U
127-18-4	Tetrachloroethene	11	U
79-34-5	1,1,2,2-Tetrachloroethane	11	U
108-88-3	Toluene	11	U
108-90-7	Chlorobenzene	11	U
100-41-4	Ethylbenzene	11	U
100-42-5	Styrene	11	U
1330-20-7	Xylene (total)	11	U

S 0044

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

B60217

Lab Name: H2M LABS INC. Contract: _____
Lab Code: _____ Case No.: RA096 SAS No.: _____ SDG No.: NDEC012
Matrix: (soil/water) SOIL Lab Sample ID: 9702031
Sample wt/vol: 5.0 (g/ml) G Lab File ID: P05481.D
Level: (low/med) LOW Date Received: 01/23/97
% Moisture: not dec. 4.8 Date Analyzed: 01/24/97
GC Column: RTX502 ID: 0.53 (mm) Dilution Factor: 1.0
Soil Extract Volume 1 (uL) Soil Aliquot Volume: 1 (uL)

CONCENTRATION UNITS:

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

Number TICs found: 0

CAS NO.	COMPOUND	RT	EST. CONC.	Q

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B60218

Lab Name: H2M LABS INC. Contract: _____

Lab Code: _____ Case No.: RA096 SAS No.: _____ SDG No.: NDEC012

Matrix: (soil/water) SOIL Lab Sample ID: 9702032

Sample wt/vol: 5.0 (g/ml) G Lab File ID: P05488.D

Level: (low/med) LOW Date Received: 01/23/97

% Moisture: not dec. 4 Date Analyzed: 01/27/97

GC Column: RTX502 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

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

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

B60218

Lab Name: H2M LABS INC. Contract: _____
Lab Code: _____ Case No.: RA096 SAS No.: _____ SDG No.: NDEC012
Matrix: (soil/water) SOIL Lab Sample ID: 9702032
Sample wt/vol: 5.0 (g/ml) G Lab File ID: P05488.D
Level: (low/med) LOW Date Received: 01/23/97
% Moisture: not dec. 4 Date Analyzed: 01/27/97
GC Column: RTX502 ID: 0.53 (mm) Dilution Factor: 1.0
Soil Extract Volume 1 (uL) Soil Aliquot Volume: 1 (uL)

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

Number TICs found: 0

CAS NO.	COMPOUND	RT	EST. CONC.	Q

INORGANIC ANALYSIS DATA SHEET

B60219

Lab Name: H2M LABS, INC.

Contract: C003180

Lab Code: 10478

Case No.: RA096

SAS No.:

SDG No.: XX0122

Matrix (soil/water): SOIL

Lab Sample ID: 9702033

Level (low/med): LOW

Date Received: 01/23/97

% Solids: 96.2

Concentration Units (ug/L or mg/kg dry weight): MG/KG

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	394	-		P
7440-36-0	Antimony	0.58	U		P
7440-38-2	Arsenic	0.95	B		P
7440-39-3	Barium	1.5	B		P
7440-41-7	Beryllium	0.17	B		P
7440-43-9	Cadmium	0.12	B		P
7440-70-2	Calcium	73.5	B		P
7440-47-3	Chromium	7.3	-	*	P
7440-48-4	Cobalt	0.33	B		P
7440-50-8	Copper	1.6	B		P
7439-89-6	Iron	1800	-	*	P
7439-92-1	Lead	1.5	-		P
7439-95-4	Magnesium	48.8	B		P
7439-96-5	Manganese	3.5	-		P
7439-97-6	Mercury	0.06	B		CV
7440-02-0	Nickel	3.9	B		P
7440-09-7	Potassium	40.7	B		P
7782-49-2	Selenium	0.35	U		P
7440-22-4	Silver	1.3	B		P
7440-23-5	Sodium	30.5	B		P
7440-28-0	Thallium	0.49	B		P
7440-62-2	Vanadium	2.1	B		P
7440-66-6	Zinc	3.8	B		P
	Cyanide		-		

Color Before: BROWN

Clarity Before:

Texture: MEDIUM

Color After: COLORLESS

Clarity After: CLEAR

Artifacts:

Comments:

B60219

TOTAL METALS

DATE REPORTED: FEBRUARY 28, 1997

S 0048

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B60220

Lab Name: H2M LABS INC. Contract: _____

Lab Code: _____ Case No.: RA096 SAS No.: _____ SDG No.: NDEC012

Matrix: (soil/water) WATER Lab Sample ID: 9702037

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: P05528.D

Level: (low/med) LOW Date Received: 01/23/97

% Moisture: not dec. _____ Date Analyzed: 01/29/97

GC Column: RTX502 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(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	1	J	
67-64-1	Acetone	440	E	
75-15-0	Carbon Disulfide	10	U	
75-35-4	1,1-Dichloroethene	1	J	
75-34-4	1,1-Dichloroethane	10	U	
540-59-0	1,2-Dichloroethene (total)	10	U	
67-66-3	Chloroform	10	U	
107-06-2	1,2-Dichloroethane	10	U	
78-93-3	2-Butanone	9	J	
71-55-6	1,1,1-Trichloroethane	82		
56-23-5	Carbon Tetrachloride	10	U	
75-27-4	Bromodichloromethane	10	U	
78-87-5	1,2-Dichloropropane	10	U	
10061-01-5	cis-1,3-Dichloropropene	10	U	
79-01-6	Trichloroethene	1900	E	
71-43-2	Benzene	10	U	
124-48-1	Dibromochloromethane	10	U	
10061-02-6	trans-1,3-Dichloropropene	10	U	
79-00-5	1,1,2-Trichloroethane	10	U	
75-25-2	Bromoform	10	U	
108-10-1	4-Methyl-2-Pentanone	10	U	
591-78-6	2-Hexanone	10	U	
127-18-4	Tetrachloroethene	56		
79-34-5	1,1,2,2-Tetrachloroethane	10	U	
108-88-3	Toluene	310	E	
108-90-7	Chlorobenzene	10	U	
100-41-4	Ethylbenzene	1	J	
100-42-5	Styrene	10	U	
1330-20-7	Xylene (total)	4	J	

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

B60220

Lab Name: H2M LABS INC.

Contract: _____

Lab Code: _____

Case No.: RA096

SAS No.: _____

SDG No.: NDEC012

Matrix: (soil/water) WATER

Lab Sample ID: 9702037

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

Lab File ID: P05528.D

Level: (low/med) LOW

Date Received: 01/23/97

% Moisture: not dec. _____

Date Analyzed: 01/29/97

GC Column: RTX502 ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume _____ (uL)

Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

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

Number TICs found: 1

CAS NO.	COMPOUND	RT	EST. CONC.	Q
1. 000556-67-2	Cyclotetrasiloxane, octamethyl-	18.52	16	JN

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B60220DL

Lab Name: H2M LABS INC. Contract: _____

Lab Code: _____ Case No.: RA096 SAS No.: _____ SDG No.: NDEC012

Matrix: (soil/water) WATER Lab Sample ID: 9702037DL 1:2

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: P05540.D

Level: (low/med) LOW Date Received: 01/23/97

% Moisture: not dec. _____ Date Analyzed: 01/30/97

GC Column: RTX502 ID: 0.53 (mm) Dilution Factor: 25.0

Soil Extract Volume _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

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

74-87-3	Chloromethane	250	U
74-83-9	Bromomethane	250	U
75-01-4	Vinyl Chloride	250	U
75-00-3	Chloroethane	250	U
75-09-2	Methylene Chloride	46	JBD
67-64-1	Acetone	480	D
75-15-0	Carbon Disulfide	250	U
75-35-4	1,1-Dichloroethene	250	U
75-34-4	1,1-Dichloroethane	250	U
540-59-0	1,2-Dichloroethene (total)	58	JD
67-66-3	Chloroform	250	U
107-06-2	1,2-Dichloroethane	250	U
78-93-3	2-Butanone	250	U
71-55-6	1,1,1-Trichloroethane	64	JD
56-23-5	Carbon Tetrachloride	250	U
75-27-4	Bromodichloromethane	250	U
78-87-5	1,2-Dichloropropane	250	U
10061-01-5	cis-1,3-Dichloropropene	250	U
79-01-6	Trichloroethene	3900	D
71-43-2	Benzene	250	U
124-48-1	Dibromochloromethane	250	U
10061-02-6	trans-1,3-Dichloropropene	250	U
79-00-5	1,1,2-Trichloroethane	250	U
75-25-2	Bromoform	250	U
108-10-1	4-Methyl-2-Pentanone	250	U
591-78-6	2-Hexanone	250	U
127-18-4	Tetrachloroethene	54	JD
79-34-5	1,1,2,2-Tetrachloroethane	250	U
108-88-3	Toluene	320	D
108-90-7	Chlorobenzene	250	U
100-41-4	Ethylbenzene	250	U
100-42-5	Styrene	250	U
1330-20-7	Xylene (total)	250	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

B60220DL

Lab Name: H2M LABS INC.

Contract: _____

Lab Code: _____

Case No.: RA096

SAS No.: _____

SDG No.: NDEC012

Matrix: (soil/water) WATER

Lab Sample ID: 9702037DL 1:2

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

Lab File ID: P05540.D

Level: (low/med) LOW

Date Received: 01/23/97

% Moisture: not dec. _____

Date Analyzed: 01/30/97

GC Column: RTX502 ID: 0.53 (mm)

Dilution Factor: 25.0

Soil Extract Volume _____ (uL)

Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

Number TICs found: 0

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

CAS NO.	COMPOUND	RT	EST. CONC.	Q

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B60221

Lab Name: H2M LABS INC. Contract: _____

Lab Code: _____ Case No.: RA096 SAS No.: _____ SDG No.: NDEC012

Matrix: (soil/water) WATER Lab Sample ID: 9702038

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: P05530.D

Level: (low/med) LOW Date Received: 01/23/97

% Moisture: not dec. _____ Date Analyzed: 01/29/97

GC Column: RTX502 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(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	1	J	
67-64-1	Acetone	130		
75-15-0	Carbon Disulfide	10	U	
75-35-4	1,1-Dichloroethene	10	U	
75-34-4	1,1-Dichloroethane	10	U	
540-59-0	1,2-Dichloroethene (total)	4	J	
67-66-3	Chloroform	10	U	
107-06-2	1,2-Dichloroethane	10	U	
78-93-3	2-Butanone	10	U	
71-55-6	1,1,1-Trichloroethane	17		
56-23-5	Carbon Tetrachloride	10	U	
75-27-4	Bromodichloromethane	10	U	
78-87-5	1,2-Dichloropropane	10	U	
10061-01-5	cis-1,3-Dichloropropene	10	U	
79-01-6	Trichloroethene	500	E	
71-43-2	Benzene	10	U	
124-48-1	Dibromochloromethane	10	U	
10061-02-6	trans-1,3-Dichloropropene	10	U	
79-00-5	1,1,2-Trichloroethane	10	U	
75-25-2	Bromoform	10	U	
108-10-1	4-Methyl-2-Pentanone	10	U	
591-78-6	2-Hexanone	10	U	
127-18-4	Tetrachloroethene	17		
79-34-5	1,1,2,2-Tetrachloroethane	10	U	
108-88-3	Toluene	37		
108-90-7	Chlorobenzene	10	U	
100-41-4	Ethylbenzene	10	U	
100-42-5	Styrene	10	U	
1330-20-7	Xylene (total)	10	U	

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

B60221

Lab Name: H2M LABS INC. Contract: _____
Lab Code: _____ Case No.: RA096 SAS No.: _____ SDG No.: NDEC012
Matrix: (soil/water) WATER Lab Sample ID: 9702038
Sample wt/vol: 5.0 (g/ml) ML Lab File ID: P05530.D
Level: (low/med) LOW Date Received: 01/23/97
% Moisture: not dec. _____ Date Analyzed: 01/29/97
GC Column: RTX502. ID: 0.53 (mm) Dilution Factor: 1.0
Soil Extract Volume _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

Number TICs found: 1 (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND	RT	EST. CONC.	Q
1.	unknown	18.50	10	J

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B60221DL

Lab Name: H2M LABS INC. Contract: _____

Lab Code: _____ Case No.: RA096 SAS No.: _____ SDG No.: NDEC012

Matrix: (soil/water) WATER Lab Sample ID: 9702038DL 1:5

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: P05531.D

Level: (low/med) LOW Date Received: 01/23/97

% Moisture: not dec. _____ Date Analyzed: 01/29/97

GC Column: RTX502. ID: 0.53 (mm) Dilution Factor: 5.0

Soil Extract Volume _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

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

74-87-3	Chloromethane	50	U
74-83-9	Bromomethane	50	U
75-01-4	Vinyl Chloride	50	U
75-00-3	Chloroethane	50	U
75-09-2	Methylene Chloride	50	U
67-64-1	Acetone	170	D
75-15-0	Carbon Disulfide	50	U
75-35-4	1,1-Dichloroethene	50	U
75-34-4	1,1-Dichloroethane	50	U
540-59-0	1,2-Dichloroethene (total)	50	U
67-66-3	Chloroform	50	U
107-06-2	1,2-Dichloroethane	50	U
78-93-3	2-Butanone	50	U
71-55-6	1,1,1-Trichloroethane	18	JD
56-23-5	Carbon Tetrachloride	50	U
75-27-4	Bromodichloromethane	50	U
78-87-5	1,2-Dichloropropane	50	U
10061-01-5	cis-1,3-Dichloropropene	50	U
79-01-6	Trichloroethene	550	D
71-43-2	Benzene	50	U
124-48-1	Dibromochloromethane	50	U
10061-02-6	trans-1,3-Dichloropropene	50	U
79-00-5	1,1,2-Trichloroethane	50	U
75-25-2	Bromoform	50	U
108-10-1	4-Methyl-2-Pentanone	50	U
591-78-6	2-Hexanone	50	U
127-18-4	Tetrachloroethene	18	JD
79-34-5	1,1,2,2-Tetrachloroethane	50	U
108-88-3	Toluene	40	JD
108-90-7	Chlorobenzene	50	U
100-41-4	Ethylbenzene	50	U
100-42-5	Styrene	50	U
1330-20-7	Xylene (total)	50	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

B60221DL

Lab Name: H2M LABS INC. Contract: _____
Lab Code: _____ Case No.: RA096 SAS No.: _____ SDG No.: NDEC012
Matrix: (soil/water) WATER Lab Sample ID: 9702038DL 1:5
Sample wt/vol: 5.0 (g/ml) ML Lab File ID: P05531.D
Level: (low/med) LOW Date Received: 01/23/97
% Moisture: not dec. _____ Date Analyzed: 01/29/97
GC Column: RTX502. ID: 0.53 (mm) Dilution Factor: 5.0
Soil Extract Volume _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

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

Number TICs found: 1

CAS NO.	COMPOUND	RT	EST. CONC.	Q
1.	unknown	18.52	42	JD

S 0056

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B60222

Lab Name: H2M LABS INC. Contract: _____
 Lab Code: _____ Case No.: RA096 SAS No.: _____ SDG No.: NDEC012
 Matrix: (soil/water) WATER Lab Sample ID: 9702039
 Sample wt/vol: 5.0 (g/ml) ML Lab File ID: P05507.D
 Level: (low/med) LOW Date Received: 01/23/97
 % Moisture: not dec. _____ Date Analyzed: 01/28/97
 GC Column: RTX502. ID: 0.53 (mm) Dilution Factor: 1.0
 Soil Extract Volume _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(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	10	U	
67-64-1	Acetone	92		
75-15-0	Carbon Disulfide	10	U	
75-35-4	1,1-Dichloroethene	2	J	
75-34-4	1,1-Dichloroethane	5	J	
540-59-0	1,2-Dichloroethene (total)	13		
67-66-3	Chloroform	10	U	
107-06-2	1,2-Dichloroethane	3	J	
78-93-3	2-Butanone	10	U	
71-55-6	1,1,1-Trichloroethane	160		
56-23-5	Carbon Tetrachloride	10	U	
75-27-4	Bromodichloromethane	10	U	
78-87-5	1,2-Dichloropropane	10	U	
10061-01-5	cis-1,3-Dichloropropene	10	U	
79-01-6	Trichloroethene	660	E	
71-43-2	Benzene	10	U	
124-48-1	Dibromochloromethane	10	U	
10061-02-6	trans-1,3-Dichloropropene	10	U	
79-00-5	1,1,2-Trichloroethane	10	U	
75-25-2	Bromoform	10	U	
108-10-1	4-Methyl-2-Pentanone	10	U	
591-78-6	2-Hexanone	10	U	
127-18-4	Tetrachloroethene	15		
79-34-5	1,1,2,2-Tetrachloroethane	10	U	
108-88-3	Toluene	10		
108-90-7	Chlorobenzene	10	U	
100-41-4	Ethylbenzene	10	U	
100-42-5	Styrene	10	U	
1330-20-7	Xylene (total)	10	U	

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

B60222

Lab Name: H2M LABS INC. Contract: _____
Lab Code: _____ Case No.: RA096 SAS No.: _____ SDG No.: NDEC012

Matrix: (soil/water) WATER Lab Sample ID: 9702039

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: P05507.D

Level: (low/med) LOW Date Received: 01/23/97

% Moisture: not dec. _____ Date Analyzed: 01/28/97

GC Column: RTX502 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

Number TICs found: 2 (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND	RT	EST. CONC.	Q
1. 001066-40-6	Silanol, trimethyl-	8.37	19	JN
2. 000556-67-2	Cyclotetrasiloxane, octamethyl-	18.47	53	JN

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B60222DL

Lab Name: H2M LABS INC. Contract: _____

Lab Code: _____ Case No.: RA096 SAS No.: _____ SDG No.: NDEC012

Matrix: (soil/water) WATER Lab Sample ID: 9702039DL 1:5

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: P05532.D

Level: (low/med) LOW Date Received: 01/23/97

% Moisture: not dec. _____ Date Analyzed: 01/29/97

GC Column: RTX502 ID: 0.53 (mm) Dilution Factor: 5.0

Soil Extract Volume _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/L	Q
74-87-3	Chloromethane		50	U
74-83-9	Bromomethane		50	U
75-01-4	Vinyl Chloride		50	U
75-00-3	Chloroethane		50	U
75-09-2	Methylene Chloride		50	U
67-64-1	Acetone		110	D
75-15-0	Carbon Disulfide		50	U
75-35-4	1,1-Dichloroethene		50	U
75-34-4	1,1-Dichloroethane		50	U
540-59-0	1,2-Dichloroethene (total)		8	JD
67-66-3	Chloroform		50	U
107-06-2	1,2-Dichloroethane		50	U
78-93-3	2-Butanone		50	U
71-55-6	1,1,1-Trichloroethane		180	D
56-23-5	Carbon Tetrachloride		50	U
75-27-4	Bromodichloromethane		50	U
78-87-5	1,2-Dichloropropane		50	U
10061-01-5	cis-1,3-Dichloropropene		50	U
79-01-6	Trichloroethene		710	D
71-43-2	Benzene		50	U
124-48-1	Dibromochloromethane		50	U
10061-02-6	trans-1,3-Dichloropropene		50	U
79-00-5	1,1,2-Trichloroethane		50	U
75-25-2	Bromoform		50	U
108-10-1	4-Methyl-2-Pentanone		50	U
591-78-6	2-Hexanone		50	U
127-18-4	Tetrachloroethene		14	JD
79-34-5	1,1,2,2-Tetrachloroethane		50	U
108-88-3	Toluene		10	JD
108-90-7	Chlorobenzene		50	U
100-41-4	Ethylbenzene		50	U
100-42-5	Styrene		50	U
1330-20-7	Xylene (total)		50	U

S 0059

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

B60222DL

Lab Name: H2M LABS INC. Contract: _____
Lab Code: _____ Case No.: RA096 SAS No.: _____ SDG No.: NDEC012
Matrix: (soil/water) WATER Lab Sample ID: 9702039DL 1:5
Sample wt/vol: 5.0 (g/ml) ML Lab File ID: P05532.D
Level: (low/med) LOW Date Received: 01/23/97
% Moisture: not dec. _____ Date Analyzed: 01/29/97
GC Column: RTX502. ID: 0.53 (mm) Dilution Factor: 5.0
Soil Extract Volume _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

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

Number TICs found: 1

CAS NO.	COMPOUND	RT	EST. CONC.	Q
1. 000556-67-2	Cyclotetrasiloxane, octamethyl-	18.51	28	JND

S 0060

1
INORGANIC ANALYSIS DATA SHEET

B60223

Lab Name: H2M LABS, INC.

Contract: C003180

Lab Code: 10478

Case No.: RA096

SAS No.:

SDG No.: XX0122

Matrix (soil/water): WATER

Lab Sample ID: 9702040

Level (low/med): LOW

Date Received: 01/23/97

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	211000	—	—	P
7440-36-0	Antimony	56.0	U	N	P
7440-38-2	Arsenic	1500	—	—	P
7440-39-3	Barium	852	—	—	P
7440-41-7	Beryllium	18.9	—	—	P
7440-43-9	Cadmium	8.0	U	—	P
7440-70-2	Calcium	44700	B	—	P
7440-47-3	Chromium	4710	—	N	P
7440-48-4	Cobalt	73.1	—	—	P
7440-50-8	Copper	1490	—	—	P
7439-89-6	Iron	2550000	—	—	P
7439-92-1	Lead	438	—	E	P
7439-95-4	Magnesium	50400	B	—	P
7439-96-5	Manganese	6370	—	—	P
7439-97-6	Mercury	3.4	—	—	CV
7440-02-0	Nickel	447	—	—	P
7440-09-7	Potassium	89200	—	—	P
7782-49-2	Selenium	34.4	B	—	P
7440-22-4	Silver	2740	—	—	P
7440-23-5	Sodium	44000	—	—	P
7440-28-0	Thallium	105	B	—	P
7440-62-2	Vanadium	1730	—	—	P
7440-66-6	Zinc	15900	—	—	P
	Cyanide		—	—	—

Color Before: BROWN

Clarity Before: OPAQUE

Texture:

Color After: DK.YELLOW

Clarity After: CLEAR

Artifacts: YES

Comments:

B60223

TOTAL METALS

DATE REPORTED: FEBRUARY 28, 1997

ARTIFACT: SEDIMENTS 2 MM - 12 MM

S 0061

1
INORGANIC ANALYSIS DATA SHEET

B223AX

Lab Name: H2M LABS, INC.

Contract: C003180

Lab Code: 10478

Case No.: RA096

SAS No.:

SDG No.: XX0122

Matrix (soil/water): WATER

Lab Sample ID: 9702041

Level (low/med): LO

Date Received: 01/23/97

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	14.6	U		P
7440-36-0	Antimony	2.8	U		P
7440-38-2	Arsenic	2.2	U		P
7440-39-3	Barium	28.7	B		P
7440-41-7	Beryllium	0.20	B		P
7440-43-9	Cadmium	0.40	U		P
7440-70-2	Calcium	17400			P
7440-47-3	Chromium	0.40	U		P
7440-48-4	Cobalt	6.0	B		P
7440-50-8	Copper	1.5	B	E	P
7439-89-6	Iron	4550			P
7439-92-1	Lead	0.70	U		P
7439-95-4	Magnesium	17000			P
7439-96-5	Manganese	407			P
7439-97-6	Mercury	0.10	U		CV
7440-02-0	Nickel	26.6	B		P
7440-09-7	Potassium	66100			P
7782-49-2	Selenium	1.7	U		P
7440-22-4	Silver	0.50	U		P
7440-23-5	Sodium	34000			P
7440-28-0	Thallium	3.3	B		P
7440-62-2	Vanadium	1.1	U		P
7440-66-6	Zinc	557			P
	Cyanide				

Color Before: COLORLESS

Clarity Before: CLEAR

Texture:

Color After: COLORLESS

Clarity After: CLEAR

Artifacts:

Comments:

B60223A

DISSOLVED METALS

DATE REPORTED: FEBRUARY 28, 1997

S 0062

INORGANIC ANALYSIS DATA SHEET

B60224

Lab Name: H2M LABS, INC.

Contract: C003180

Lab Code: 10478

Case No.: RA096

SAS No.:

SDG No.: XX0122

Matrix (soil/water): WATER

Lab Sample ID: 9702042

Level (low/med): LOW

Date Received: 01/23/97

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	68200	-		P
7440-36-0	Antimony	6.0	B	N	P
7440-38-2	Arsenic	222	-		P
7440-39-3	Barium	356	-		P
7440-41-7	Beryllium	4.8	B		P
7440-43-9	Cadmium	0.80	U		P
7440-70-2	Calcium	48900	-		P
7440-47-3	Chromium	612	-	N	P
7440-48-4	Cobalt	33.7	B		P
7440-50-8	Copper	273	-		P
7439-89-6	Iron	313000	-		P
7439-92-1	Lead	75.5	-	E	P
7439-95-4	Magnesium	22900	-		P
7439-96-5	Manganese	1550	-		P
7439-97-6	Mercury	0.52	-		CV
7440-02-0	Nickel	161	-		P
7440-09-7	Potassium	19700	-		P
7782-49-2	Selenium	9.4	B		P
7440-22-4	Silver	281	-		P
7440-23-5	Sodium	33100	-		P
7440-28-0	Thallium	13.6	B		P
7440-62-2	Vanadium	304	-		P
7440-66-6	Zinc	4450	-		P
	Cyanide		-		

Color Before: BROWN

Clarity Before: OPAQUE

Texture:

Color After: YELLOW

Clarity After: CLEAR

Artifacts: YES

Comments:

B60224

TOTAL METALS

DATE REPORTED: FEBRUARY 28, 1997

ARTIFACT: SEDIMENTS 2 MM - 12 MM

FORM I - IN

S 0063

1
INORGANIC ANALYSIS DATA SHEET

B224AX

Lab Name: H2M LABS, INC.

Contract: C003180

Lab Code: 10478

Case No.: RA096

SAS No.:

SDG No.: XX0122

Matrix (soil/water): WATER

Lab Sample ID: 9702043

Level (low/med): LO

Date Received: 01/23/97

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	14.6	U		P
7440-36-0	Antimony	2.8	U		P
7440-38-2	Arsenic	2.2	U		P
7440-39-3	Barium	41.4	B		P
7440-41-7	Beryllium	0.27	B		P
7440-43-9	Cadmium	0.63	B		P
7440-70-2	Calcium	43900			P
7440-47-3	Chromium	0.40	U		P
7440-48-4	Cobalt	7.7	B		P
7440-50-8	Copper	1.1	B	E	P
7439-89-6	Iron	10700			P
7439-92-1	Lead	0.70	U		P
7439-95-4	Magnesium	19000			P
7439-96-5	Manganese	402			P
7439-97-6	Mercury	0.10	U		CV
7440-02-0	Nickel	30.6	B		P
7440-09-7	Potassium	12300			P
7782-49-2	Selenium	1.7	U		P
7440-22-4	Silver	0.50	U		P
7440-23-5	Sodium	31400			P
7440-28-0	Thallium	4.0	B		P
7440-62-2	Vanadium	1.7	B		P
7440-66-6	Zinc	1250			P
	Cyanide				

Color Before: COLORLESS

Clarity Before: CLEAR

Texture:

Color After: COLORLESS

Clarity After: CLEAR

Artifacts:

Comments:

B60224A

DISSOLVED METALS

DATE REPORTED: FEBRUARY 28, 1997

S 0064

1 INORGANIC ANALYSIS DATA SHEET

B60225

Lab Name: H2M LABS, INC.

Contract: C003180

Lab Code: 10478

Case No.: RA096

SAS No.:

SDG No.: XX0122

Matrix (soil/water): WATER

Lab Sample ID: 9702044

Level (low/med): LOW

Date Received: 01/23/97

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7429-90-5	Aluminum	94900	—		P
7440-36-0	Antimony	7.5	B	N	P
7440-38-2	Arsenic	136	—		P
7440-39-3	Barium	243	—		P
7440-41-7	Beryllium	6.4	—		P
7440-43-9	Cadmium	0.40	U		P
7440-70-2	Calcium	20800	—		P
7440-47-3	Chromium	575	—	N	P
7440-48-4	Cobalt	32.1	B		P
7440-50-8	Copper	525	—		P
7439-89-6	Iron	235000	—		P
7439-92-1	Lead	80.7	—	E	P
7439-95-4	Magnesium	105000	—		P
7439-96-5	Manganese	1040	—		P
7439-97-6	Mercury	0.56	—		CV
7440-02-0	Nickel	252	—		P
7440-09-7	Potassium	29500	—		P
7782-49-2	Selenium	9.8	—		P
7440-22-4	Silver	91.7	—		P
7440-23-5	Sodium	66000	—		P
7440-28-0	Thallium	6.8	B		P
7440-62-2	Vanadium	249	—		P
7440-66-6	Zinc	4040	—		P
	Cyanide		—		

Color Before: BROWN

Clarity Before: OPAQUE

Texture:

Color After: YELLOW

Clarity After: CLEAR

Artifacts:

Comments:

B60225

TOTAL METALS

DATE REPORTED: FEBRUARY 28, 1997

ARTIFACT: SEDIMENTS 2 MM - 12 MM

FORM I - IN

S 0065

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

TRIP BLANK

Lab Name: H2M LABS INC. Contract: _____

Lab Code: _____ Case No.: RA096 SAS No.: _____ SDG No.: NDEC012

Matrix: (soil/water) WATER Lab Sample ID: 9702046

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: P05541.D

Level: (low/med) LOW Date Received: 01/23/97

% Moisture: not dec. _____ Date Analyzed: 01/30/97

GC Column: RTX502 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

Number TICs found: 0 (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND	RT	EST. CONC.	Q

S 0068

- 5. SURROGATE SPIKE ANALYSIS RESULTS**
 - 5.1 VOLATILES
 - 5.2 SEMIVOLATILE

2A
WATER VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: H2M LABS INC. Contract: _____
Lab Code: _____ Case No.: RA096 SAS No.: _____ SDG No.: NDEC012

	EPA SAMPLE NO.	SMC1 (DCE) #	SMC2 (TOL) #	SMC3 (BFB) #	TOT OUT
01	VLK28	104	102	101	0
02	B60222	105	100	102	0
03	VLK29	106	97	100	0
04	B60220	117 *	96	105	1
05	B60221	113	96	104	0
06	B60221DL	116 *	95	106	1
07	B60222DL	113	97	106	0
08	VLK30	101	98	101	0
09	B60220DL	103	98	100	0
10	TRIP BLANK	104	94	102	0

SMC1 (DCE)	=	1,2-Dichloroethane-d4	QC LIMITS (76-114)
SMC2 (TOL)	=	Toluene-d8	(88-110)
SMC3 (BFB)	=	Bromofluorobenzene	(86-115)

Column to be used to flag recovery values

* Values outside of contract required QC limits

D System Monitoring Compound diluted out

2B
SOIL VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: H2M LABS INC. Contract: _____
Lab Code: _____ Case No.: RA096 SAS No.: _____ SDG No.: NDEC012
Level: (low/med) LOW

	EPA SAMPLE NO.	SMC1 (DCE) #	SMC2 (TOL) #	SMC3 (BFB) #	TOT OUT
01	VBLK24	105	98	99	0
02	B60211	109	103	88	0
03	B60212	110	97	102	0
04	B60213	110	96	102	0
05	B60215	109	100	101	0
06	B60216	113	97	105	0
07	B60217	111	96	103	0
08	VBLK27	107	96	98	0
09	B60211DL	106	97	99	0
10	B60215DL	108	99	99	0
11	B60218	109	98	101	0

SMC1 (DCE)	=	1,2-Dichloroethane-d4	QC LIMITS (70-121)
SMC2 (TOL)	=	Toluene-d8	(84-138)
SMC3 (BFB)	=	Bromofluorobenzene	(59-113)

Column to be used to flag recovery values
* Values outside of contract required QC limits
D System Monitoring Compound diluted out

2D
SOIL SEMIVOLATILE SURROGATE RECOVERY

Lab Name: H2M LABS, INC. Contract: NYSDEC
 Lab Code: 10478 Case No.: RA096 SAS No.: SDG No.: 0122
 Level: (low/med) LOW

	EPA	S1	S2	S3	S4	S5	S6	S7	S8	TOT
	SAMPLE NO.	(2FP) #	(PD5) #	(2CP) #	(DCB) #	(NBZ) #	(FBP) #	(TBP) #	(TPH) #	OUT
01	SBLK01	72	74	75	80	91	93	73	93	0
02	LFB(1/24)	73	76	76	77	86	94	86	99	0
03	B60214	70	72	77	73	81	85	77	92	0

QC LIMITS			
S1	(2FP)	= 2-Fluorophenol	(25-121)
S2	(PD5)	= Phenol-d5	(24-113)
S3	(2CP)	= 2-Chlorophenol-d4	(20-130)
S4	(DCB)	= 1,2-Dichlorobenzene-d4	(20-130)
S5	(NBZ)	= Nitrobenzene-d5	(23-120)
S6	(FBP)	= 2-Fluorobiphenyl	(30-115)
S7	(TBP)	= 2,4,6-Tribromophenol	(19-122)
S8	(TPH)	= Terphenyl-d14	(18-137)

Column to be used to flag recovery values

* Values outside of contract required QC limits

D Surrogate diluted out

S 0072

6. MATRIX SPIKE / MATRIX SPIKE DUPLICATE SUMMARY
6.1 SEMIVOLATILES

SOIL LABORATORY FORTIFIED BLANK RECOVERY

LAB SAMPLE ID: LFB(1/24)
 RUN #: C03342.D
 DATE ANALYZED: 02/18/97

ANALYTE	LFB CONC.	SPIKE AMT.	%	QC LIMITS	
	(ug/Kg)	(ug/Kg)	REC. #	LCL	UCL
Phenol	784	830	94	30	126
bis(2-Chloroethyl)ether	767	830	92	23	119
2-Chlorophenol	718	830	87	32	122
1,3-Dichlorobenzene	673	830	81	39	111
1,4-Dichlorobenzene	688	830	83	38	116
1,2-Dichlorobenzene	672	830	81	40	112
2-Methylphenol	600	830	72	27	141
2,2'-oxybis(1-Chloropropane)	625	830	75	9	147
4-Methylphenol	633	830	76	15	141
N-Nitroso-di-n-propylamine	709	830	85	19	133
Hexachloroethane	698	830	84	39	111
Nitrobenzene	694	830	84	39	129
Isophorone	688	830	83	30	126
2-Nitrophenol	791	830	95	37	121
2,4-Dimethylphenol	162	830	20	31	133
bis(2-Chloroethoxy)methane	811	830	98	46	112
2,4-Dichlorophenol	820	830	99	40	124
1,2,4-Trichlorobenzene	746	830	90	48	114
Naphthalene	741	830	89	46	118
4-Chloroaniline	331	830	40	0	155
Hexachlorobutadiene	756	830	91	49	115
4-Chloro-3-methylphenol	856	830	103	39	135
2-Methylnaphthalene	746	830	90	49	121
Hexachlorocyclopentadiene	603	830	73	0	134
2,4,6-Trichlorophenol	847	830	102	37	133
2,4,5-Trichlorophenol	835	830	101	16	148
2-Chloronaphthalene	801	830	97	47	125
2-Nitroaniline	807	830	97	33	135
Dimethylphthalate	812	830	98	49	127
Acenaphthylene	823	830	99	47	119
2,6-Dinitrotoluene	801	830	97	48	120
3-Nitroaniline	485	830	58	4	166
Acenaphthene	806	830	97	49	127
2,4-Dinitrophenol	777	830	94	0	120
4-Nitrophenol	926	830	112	10	166
Dibenzofuran	813	830	98	48	120
2,4-Dinitrotoluene	804	830	97	46	118

Column used to flag recoveries outside QC limits.

* Recovery of analyte is outside QC limits.

S 0074

SOIL LABORATORY FORTIFIED BLANK RECOVERY

LAB SAMPLE ID: LFB(1/24)
 RUN #: C03342.D
 DATE ANALYZED: 02/18/97

ANALYTE	LFB CONC.	SPIKE AMT.	%	QC LIMITS	
	(ug/Kg)	(ug/Kg)	REC. #	LCL	UCL
Diethylphthalate	842	830	101	50	128
Fluorene	843	830	102	50	122
4-Chlorophenyl-phenylether	826	830	100	51	123
4-Nitroaniline	796	830	96	0	227
4,6-Dinitro-2-methylphenol	802	830	97	29	137
N-Nitrosodiphenylamine	1159	830	140 *	52	124
4-Bromophenyl-phenylether	761	830	92	55	127
Hexachlorobenzene	794	830	96	55	127
Pentachlorophenol	727	830	88	0	157
Phenanthrene	818	830	99	54	126
Anthracene	855	830	103	58	124
Carbazole	953	830	115	3	243
Di-n-butylphthalate	785	830	95	50	128
Fluoranthene	824	830	99	48	120
Pyrene	865	830	104	46	124
Butylbenzylphthalate	874	830	105	42	132
Benzo[a]anthracene	798	830	96	48	120
3,3'-Dichlorobenzidine	352	830	42	6	186
Chrysene	1140	830	137 *	47	125
bis(2-Ethylhexyl)phthalate	814	830	98	29	127
Di-n-octylphthalate	795	830	96	41	125
Benzo[b]fluoranthene	840	830	101	35	119
Benzo[k]fluoranthene	905	830	109	40	136
Benzo[a]pyrene	821	830	99	49	121
Indeno[1,2,3-cd]pyrene	918	830	111	34	130
Dibenz[a,h]anthracene	1162	830	140 *	35	131
Benzo[g,h,i]perylene	1123	830	135 *	29	131

Column used to flag recoveries outside QC limits.

* Recovery of analyte is outside QC limits.

S 0075

6
DUPLICATES

SAMPLE NO.

B60225D

Lab Name: H2M LABS, INC.

Contract: C003180

Lab Code: 10478

Case No.: RA096

SAS No.:

SDG No.: XX0122

Matrix (soil/water): WATER

Level (low/med): LOW

% Solids for Sample: 0.0

% Solids for Duplicate: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Aluminum		94869.9660		85744.3660		10.1		P
Antimony		7.4763	B	5.4011	B	32.2		P
Arsenic		136.1906		135.3653		0.6		P
Barium	200.0	243.4333		224.0333		8.3		P
Beryllium	5.0	6.3667		6.2333		2.1		P
Cadmium		0.4000	U	0.4000	U			P
Calcium	5000.0	20779.4000		20785.5000		0.0		P
Chromium		575.2333		563.4000		2.1		P
Cobalt		32.1333	B	31.8667	B	0.8		P
Copper		525.0000		519.7667		1.0		P
Iron		235358.1000		235391.1000		0.0		P
Lead		80.6869		78.2968		3.0		P
Magnesium		104524.2000		104719.8600		0.2		P
Manganese		1041.8000		1037.0000		0.5		P
Mercury	0.2	0.5560		0.5582		0.4		CV
Nickel		251.5000		246.0000		2.2		P
Potassium		29475.1330		29136.6000		1.2		P
Selenium	5.0	9.8457		9.8072		0.4		P
Silver		91.7028		92.6527		1.0		P
Sodium		65996.4000		66424.1660		0.6		P
Thallium		6.7709	B	6.8915	B	1.8		P
Vanadium	50.0	248.6000		245.2333		1.4		P
Zinc		4038.5333		4045.5667		0.2		P
Cyanide								

6
DUPLICATES

SAMPLE NO.

B225AXD

Lab Name: H2M LABS, INC.

Contract: C003180

Lab Code: 10478

Case No.: RA096

SAS No.:

SDG No.: XX0122

Matrix (soil/water): WATER

Level (low/med): LO

% Solids for Sample: 0.0

% Solids for Duplicate: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	M
Aluminum		8682.5333		8609.8333		0.8	--	P
Antimony		2.8000	U	2.8000	U		--	P
Arsenic		5.1909	B	4.1958	B	21.2	--	P
Barium		73.6667	B	72.8000	B	1.2	--	P
Beryllium		2.4000	B	2.4000	B	0.0	--	P
Cadmium		1.2333	B	1.1667	B	5.6	--	P
Calcium	5000.0	21692.6000		21733.7000		0.2	--	P
Chromium	10.0	23.8333		24.2333		1.7	--	P
Cobalt		23.6000	B	23.7667	B	0.7	--	P
Copper	25.0	37.9000		37.4667		1.1	--	P
Iron		48564.5660		48578.8000		0.0	--	P
Lead		1.5188	B	0.7787	B	64.4	--	P
Magnesium		124681.6300		124697.0000		0.0	--	P
Manganese		832.6000		831.4667		0.1	--	P
Mercury		0.1000	U	0.1000	U		--	CV
Nickel	40.0	189.2333		190.0333		0.4	--	P
Potassium		29964.9000		29726.3660		0.8	--	P
Selenium		1.7000	U	1.8221	B	200.0	--	P
Silver		0.5000	U	0.5000	U		--	P
Sodium		72729.6660		72222.8660		0.7	--	P
Thallium		3.6599	B	2.0611	B	55.9	--	P
Vanadium		1.1000	U	1.1000	U		--	P
Zinc		5137.4667		5135.5000		0.0	--	P
Cyanide								

8. SPIKE SAMPLE RESULTS
8.1 METALS

5A
SPIKE SAMPLE RECOVERY

SAMPLE NO.

B60219S

Lab Name: H2M LABS, INC.

Contract: C003180

Lab Code: 10478

Case No.: RA096

SAS No.:

SDG No.: XX0122

Matrix (soil/water): SOIL

Level (low/med): LOW

% Solids for Sample: 96.2

Concentration Units (ug/L or mg/kg dry weight): MG/KG

Analyte	Control Limit %R	Spiked Sample Result (SSR) C	Sample Result (SR) C	Spike Added (SA)	%R	Q	M
Aluminum							NR
Antimony	75-125	93.6992	0.5821 U	103.95	90.1		P
Arsenic	75-125	391.8479	0.9483 B	415.80	94.0		P
Barium	75-125	428.9744	1.5454 B	415.80	102.8		P
Beryllium	75-125	10.2426	0.1732 B	10.40	96.8		P
Cadmium	75-125	10.3950	0.1247 B	10.40	98.8		P
Calcium							NR
Chromium	75-125	45.9529	7.2834	41.58	93.0		P
Cobalt	75-125	103.2225	0.3257 B	103.95	99.0		P
Copper	75-125	55.1005	1.5870 B	51.98	103.0		P
Iron							NR
Lead	75-125	101.3442	1.5478	103.95	96.0		P
Magnesium							NR
Manganese	75-125	107.2557	3.5066	103.95	99.8		P
Mercury	75-125	0.4919	0.0557 B	0.43	101.4		CV
Nickel	75-125	106.5904	3.9362 B	103.95	98.8		P
Potassium							NR
Selenium	75-125	372.9734	0.3534 U	415.80	89.7		P
Silver	75-125	11.6050	1.3264 B	10.40	98.8		P
Sodium							NR
Thallium	75-125	393.6295	0.4910 B	415.80	94.5		P
Vanadium	75-125	105.8905	2.0721 B	103.95	99.9		P
Zinc	75-125	107.5537	3.7699 B	103.95	99.8		P
Cyanide							NR

Comments:

5A
SPIKE SAMPLE RECOVERY

SAMPLE NO.

B60225S

Lab Name: H2M LABS, INC.

Contract: C003180

Lab Code: 10478

Case No.: RA096

SAS No.:

SDG No.: XX0122

Matrix (soil/water): WATER

Level (low/med): LOW

% Solids for Sample: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

Analyte	Control Limit %R	Spiked Sample Result (SSR) C	Sample Result (SR) C	Spike Added (SA)	%R	Q	M
Aluminum		98277.3660	94869.9660	2000.00	170.4	-	P
Antimony	75-125	318.5125	7.4763	500.00	62.2	N	P
Arsenic	75-125	1969.8135	136.1906	2000.00	91.7	-	P
Barium	75-125	2241.4667	243.4333	2000.00	99.9	-	P
Beryllium	75-125	55.2333	6.3667	50.00	97.7	-	P
Cadmium	75-125	45.3667	0.4000	50.00	90.7	-	P
Calcium						-	NR
Chromium	75-125	724.0000	575.2333	200.00	74.4	N	P
Cobalt	75-125	477.3333	32.1333	500.00	89.0	-	P
Copper	75-125	763.1000	525.0000	250.00	95.2	-	P
Iron		223942.4000	235358.1000	1000.00	-1141.6	-	P
Lead	75-125	509.4323	80.6869	500.00	85.7	-	P
Magnesium						-	NR
Manganese	75-125	1474.5333	1041.8000	500.00	86.5	-	P
Mercury	75-125	1.6198	0.5560	1.00	106.4	-	CV
Nickel	75-125	696.5333	251.5000	500.00	89.0	-	P
Potassium						-	NR
Selenium	75-125	1897.1435	9.8457	2000.00	94.4	-	P
Silver	75-125	139.0966	91.7028	50.00	94.8	-	P
Sodium						-	NR
Thallium	75-125	1793.6648	6.7709	2000.00	89.3	-	P
Vanadium	75-125	704.1000	248.6000	500.00	91.1	-	P
Zinc		4399.0333	4038.5333	500.00	72.1	-	P
Cyanide						-	NR

Comments:

TOTAL METALS

SPIKE SAMPLE RECOVERY

B225AXS

Lab Name: H2M LABS, INC.

Contract: C003180

Lab Code: 10478

Case No.: RA096

SAS No.:

SDG No.: XX0122

Matrix (soil/water): WATER

Level (low/med): LO

% Solids for Sample: 0.0

Concentration Units (ug/L or mg/kg dry weight): UG/L

Analyte	Control Limit %R	Spiked Sample Result (SSR) C	Sample Result (SR) C	Spike Added (SA)	%R	Q	M
Aluminum		10589.4000	8682.5333	2000.00	95.3	-	P
Antimony	75-125	512.0687	2.8000	500.00	102.4	-	P
Arsenic	75-125	2022.1460	5.1909	2000.00	100.8	-	P
Barium	75-125	2176.9000	73.6667	2000.00	105.2	-	P
Beryllium	75-125	54.0667	2.4000	50.00	103.3	-	P
Cadmium	75-125	49.9667	1.2333	50.00	97.5	-	P
Calcium						-	NR
Chromium	75-125	221.1333	23.8333	200.00	98.6	-	P
Cobalt	75-125	494.3000	23.6000	500.00	94.1	-	P
Copper	75-125	296.2000	37.9000	250.00	103.3	-	P
Iron		49013.0000	48564.5660	1000.00	44.8	-	P
Lead	75-125	466.1824	1.5188	500.00	92.9	-	P
Magnesium						-	NR
Manganese	75-125	1312.2333	832.6000	500.00	95.9	-	P
Mercury	75-125	1.0496	0.1000	1.00	105.0	-	CV
Nickel	75-125	668.5333	189.2333	500.00	95.9	-	P
Potassium						-	NR
Selenium	75-125	2048.2176	1.7000	2000.00	102.4	-	P
Silver	75-125	49.6496	0.5000	50.00	99.3	-	P
Sodium						-	NR
Thallium	75-125	1921.4206	3.6599	2000.00	95.9	-	P
Vanadium	75-125	496.9333	1.1000	500.00	99.4	-	P
Zinc		5551.5000	5137.4667	500.00	82.8	-	P
Cyanide						-	NR

Comments:

DISSOLVED METALS

Lab Name: H2M LABS, INC.

Contract: C003180

Lab Code: 10478

Case No.: RA096

SAS No.:

SDG No.: XX0122

Matrix (soil/water): SOIL

Level (low/med): LOW

Concentration Units: ug/L

Analyte	Control Limit %R	Spiked Sample Result (SSR) C	Sample Result (SR)	Spike Added (SA)	%R	Q	M
Aluminum							NR
Antimony							NR
Arsenic							NR
Barium							NR
Beryllium							NR
Cadmium							NR
Calcium							NR
Chromium							NR
Cobalt							NR
Copper							NR
Iron							NR
Lead							NR
Magnesium							NR
Manganese							NR
Mercury							NR
Nickel							NR
Potassium							NR
Selenium							NR
Silver							NR
Sodium							NR
Thallium							NR
Vanadium							NR
Zinc							NR
Cyanide							NR

Comments:

5B
POST DIGEST SPIKE SAMPLE RECOVERY

SAMPLE NO.

B60225A

Lab Name: H2M LABS, INC.

Contract: C003180

Lab Code: 10478

Case No.: RA096

SAS No.:

SDG No.: XX0122

Matrix (soil/water): WATER

Level (low/med): LOW

Concentration Units: ug/L

Analyte	Control Limit %R	Spiked Sample Result (SSR) C	Sample Result (SR)	Spike Added (SA)	%R	Q	M
Aluminum							NR
Antimony		135.37	7.48	120.0	106.6		P
Arsenic							NR
Barium							NR
Beryllium							NR
Cadmium							NR
Calcium							NR
Chromium		599.13	575.23	20.0	119.5		P
Cobalt							NR
Copper							NR
Iron							NR
Lead							NR
Magnesium							NR
Manganese							NR
Mercury							NR
Nickel							NR
Potassium							NR
Selenium							NR
Silver							NR
Sodium							NR
Thallium							NR
Vanadium							NR
Zinc							NR
Cyanide							NR

Comments:

TOTAL METALS

Lab Name: H2M LABS, INC.

Contract: C003180

Lab Code: 10478

Case No.: RA096

SAS No.:

SDG No.: XX0122

Matrix (soil/water): WATER

Level (low/med): LO

Concentration Units: ug/L

Analyte	Control Limit %R	Spiked Sample Result (SSR) C	Sample Result (SR)	Spike Added (SA)	%R	Q	M
Aluminum							NR
Antimony							NR
Arsenic							NR
Barium							NR
Beryllium							NR
Cadmium							NR
Calcium							NR
Chromium							NR
Cobalt							NR
Copper							NR
Iron							NR
Lead							NR
Magnesium							NR
Manganese							NR
Mercury							NR
Nickel							NR
Potassium							NR
Selenium							NR
Silver							NR
Sodium							NR
Thallium							NR
Vanadium							NR
Zinc							NR
Cyanide							NR

Comments:

DISSOLVED METALS

9. BLANK SUMMARY DATA AND RESULTS

- 9.1 VOLATILES
- 9.2 SEMIVOLATILES
- 9.3 METALS

4A
VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLK28

Lab Name: H2M LABS INC. Contract: _____
Lab Code: _____ Case No.: RA096 SAS No.: _____ SDG No.: NDEC012
Lab File ID: P05499.D Lab Sample ID: VBLK28
Date Analyzed: 01/28/97 Time Analyzed: 13:02
GC Column: RTX502 ID: 0.53 (mm) Heated Purge: (Y/N) N
Instrument ID: 5970

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	B60222	9702039	P05507.D	17:19

COMMENTS

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBK28

Lab Name: H2M LABS INC. Contract: _____

Lab Code: _____ Case No.: RA096 SAS No.: _____ SDG No.: NDEC012

Matrix: (soil/water) WATER Lab Sample ID: VBK28

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: P05499.D

Level: (low/med) LOW Date Received: 01/23/97

% Moisture: not dec. _____ Date Analyzed: 01/28/97

GC Column: RTX502. ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

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

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBK28

Lab Name: H2M LABS INC. Contract: _____
Lab Code: _____ Case No.: RA096 SAS No.: _____ SDG No.: NDEC012
Matrix: (soil/water) WATER Lab Sample ID: VBK28
Sample wt/vol: 5.0 (g/ml) ML Lab File ID: P05499.D
Level: (low/med) LOW Date Received: 01/23/97
% Moisture: not dec. _____ Date Analyzed: 01/28/97
GC Column: RTX502. ID: 0.53 (mm) Dilution Factor: 1.0
Soil Extract Volume _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

Number TICs found: 0 (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND	RT	EST. CONC.	Q

4A
VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBK29

Lab Name: H2M LABS INC. Contract: _____
Lab Code: _____ Case No.: RA096 SAS No.: _____ SDG No.: NDEC012
Lab File ID: P05520.D Lab Sample ID: VBK29
Date Analyzed: 01/29/97 Time Analyzed: 14:36
GC Column: RTX502. ID: 0.53 (mm) Heated Purge: (Y/N) N
Instrument ID: 5970

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	B60220	9702037	P05528.D	18:14
02	B60221	9702038	P05530.D	19:14
03	B60221DL	9702038DL 1:5	P05531.D	19:43
04	B60222DL	9702039DL 1:5	P05532.D	20:13

COMMENTS

S 0091

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLK29

Lab Name: H2M LABS INC. Contract: _____

Lab Code: _____ Case No.: RA096 SAS No.: _____ SDG No.: NDEC012

Matrix: (soil/water) WATER Lab Sample ID: VBLK29

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: P05520.D

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 01/29/97

GC Column: RTX502 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

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

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBK29

Lab Name: H2M LABS INC. Contract: _____
Lab Code: _____ Case No.: RA096 SAS No.: _____ SDG No.: NDEC012
Matrix: (soil/water) WATER Lab Sample ID: VBK29
Sample wt/vol: 5.0 (g/ml) ML Lab File ID: P05520.D
Level: (low/med) LOW Date Received: _____
% Moisture: not dec. _____ Date Analyzed: 01/29/97
GC Column: RTX502. ID: 0.53 (mm) Dilution Factor: 1.0
Soil Extract Volume _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

Number TICs found: 0 (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND	RT	EST. CONC.	Q

S 0093

4A
VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBK30

Lab Name: H2M LABS INC. Contract: _____
Lab Code: _____ Case No.: RA096 SAS No.: _____ SDG No.: NDE:012
Lab File ID: P05538.D Lab Sample ID: VBK30
Date Analyzed: 01/30/97 Time Analyzed: 12:54
GC Column: RTX502. ID: 0.53 (mm) Heated Purge: (Y/N) N
Instrument ID: 5970

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	B60220DL	9702037DL 1:25	P05540.D	13:54
02	TRIP BLANK	9702046	P05541.D	14:23

COMMENTS

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBK30

Lab Name: H2M LABS INC. Contract: _____

Lab Code: _____ Case No.: RA096 SAS No.: _____ SDG No.: NDEC012

Matrix: (soil/water) WATER Lab Sample ID: VBK30

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: P05538.D

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 01/30/97

GC Column: RTX502 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

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

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBK30

Lab Name: H2M LABS INC. Contract: _____
Lab Code: _____ Case No.: RA096 SAS No.: _____ SDG No.: NDEC012
Matrix: (soil/water) WATER Lab Sample ID: VBK30
Sample wt/vol: 5.0 (g/ml) ML Lab File ID: P05538.D
Level: (low/med) LOW Date Received: _____
% Moisture: not dec. _____ Date Analyzed: 01/30/97
GC Column: RTX502. ID: 0.53 (mm) Dilution Factor: 1.0
Soil Extract Volume _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

Number TICs found: 0 (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND	RT	EST. CONC.	Q

4A
VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBK24

Lab Name: H2M LABS INC. Contract: _____
Lab Code: _____ Case No.: RA096 SAS No.: _____ SDG No.: NDEC012
Lab File ID: P05462.D Lab Sample ID: VBK24
Date Analyzed: 01/24/97 Time Analyzed: 10:59
GC Column: RTX502. ID: 0.53 (mm) Heated Purge: (Y/N) Y
Instrument ID: 5970

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	B60211	9702025	P05476.D	18:18
02	B60212	9702026	P05477.D	18:49
03	B60213	9702027	P05478.D	19:20
04	B60215	9702029	P05479.D	19:50
05	B60216	9702030	P05480.D	20:21
06	B60217	9702031	P05481.D	20:52

COMMENTS

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBK24

Lab Name: H2M LABS INC. Contract: _____

Lab Code: _____ Case No.: RA096 SAS No.: _____ SDG No.: NDEC012

Matrix: (soil/water) SOIL Lab Sample ID: VBK24

Sample wt/vol: 5.0 (g/ml) G Lab File ID: P05462.D

Level: (low/med) LOW Date Received: 01/23/97

% Moisture: not dec. 0 Date Analyzed: 01/24/97

GC Column: RTX502 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

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

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBLK24

Lab Name: H2M LABS INC. Contract: _____
Lab Code: _____ Case No.: RA096 SAS No.: _____ SDG No.: NDEC012
Matrix: (soil/water) SOIL Lab Sample ID: VBLK24
Sample wt/vol: 5.0 (g/ml) G Lab File ID: P05462.D
Level: (low/med) LOW Date Received: 01/23/97
% Moisture: not dec. 0 Date Analyzed: 01/24/97
GC Column: RTX502 ID: 0.53 (mm) Dilution Factor: 1.0
Soil Extract Volume 1 (uL) Soil Aliquot Volume: 1 (uL)

CONCENTRATION UNITS:

Number TICs found: 0 (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	RT	EST. CONC.	Q

4A
VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBK27

Lab Name: H2M LABS INC. Contract: _____
Lab Code: _____ Case No.: RA096 SAS No.: _____ SDG No.: NDEC012
Lab File ID: P05485.D Lab Sample ID: VBK27
Date Analyzed: 01/27/97 Time Analyzed: 16:00
GC Column: RTX502. ID: 0.53 (mm) Heated Purge: (Y/N) Y
Instrument ID: 5970

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	B60211DL	9702025DL	P05486.D	16:44
02	B60215DL	9702029DL	P05487.D	17:15
03	B60218	9702032	P05488.D	17:46

COMMENTS

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBK27

Lab Name: H2M LABS INC. Contract: _____

Lab Code: _____ Case No.: RA096 SAS No.: _____ SDG No.: NDEC012

Matrix: (soil/water) SOIL Lab Sample ID: VBK27

Sample wt/vol: 5.0 (g/ml) G Lab File ID: P05485.D

Level: (low/med) LOW Date Received: 01/23/97

% Moisture: not dec. 0 Date Analyzed: 01/27/97

GC Column: RTX502. ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

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

S 0101

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBLK27

Lab Name: H2M LABS INC. Contract: _____
Lab Code: _____ Case No.: RA096 SAS No.: _____ SDG No.: NDEC012
Matrix: (soil/water) SOIL Lab Sample ID: VBLK27
Sample wt/vol: 5.0 (g/ml) G Lab File ID: P05485.D
Level: (low/med) LOW Date Received: 01/23/97
% Moisture: not dec. 0 Date Analyzed: 01/27/97
GC Column: RTX502. ID: 0.53 (mm) Dilution Factor: 1.0
Soil Extract Volume 1 (uL) Soil Aliquot Volume: 1 (uL)

CONCENTRATION UNITS:

Number TICs found: 0 (ug/L or ug/Kg) UG/KG

CAS NO.	COMPOUND	RT	EST. CONC.	Q

S 0102

4B
SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

SBLK01

Lab Name: H2M LABS, INC. Contract: NYSDEC
Lab Code: 10478 Case No.: RA096 SAS No.: SDG No.: 0122
Lab File ID: C03341.D Lab Sample ID: SBLK(1/24)
Instrument ID: H5972 Date Extracted: 01/24/97
Matrix: (soil/water) SOIL Date Analyzed: 02/18/97
Level: (low/med) LOW Time Analyzed: 17:43

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
01	LFB(1/24)	LFB(1/24)	C03342.D	02/18/97
02	B60214	9702028	C03348.D	02/18/97

COMMENTS:

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLK01

Lab Name: H2M LABS, INC. Contract: NYSDEC

Lab Code: 10478 Case No.: RA096 SAS No.: SDG No.: 0122

Matrix: (soil/water) SOIL Lab Sample ID: SBLK(1/24)

Sample wt/vol: 30 (g/ml) G Lab File ID: C03341.D

Level: (low/med) LOW Date Received:

% Moisture: 0 decanted:(Y/N) N Date Extracted: 01/24/97

Concentrated Extract Volume: 500 (uL) Date Analyzed: 02/18/97

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH:

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/KG	Q
108952	Phenol	330	U	
111444	bis(2-Chloroethyl)ether	330	U	
95578	2-Chlorophenol	330	U	
541731	1,3-Dichlorobenzene	330	U	
106467	1,4-Dichlorobenzene	330	U	
95501	1,2-Dichlorobenzene	330	U	
95487	2-Methylphenol	330	U	
108601	2,2'-oxybis(1-Chloropropane)	330	U	
106445	4-Methylphenol	330	U	
621647	N-Nitroso-di-n-propylamine	330	U	
67721	Hexachloroethane	330	U	
98953	Nitrobenzene	330	U	
78591	Isophorone	330	U	
88755	2-Nitrophenol	330	U	
105679	2,4-Dimethylphenol	330	U	
111911	bis(2-Chloroethoxy)methane	330	U	
120832	2,4-Dichlorophenol	330	U	
120821	1,2,4-Trichlorobenzene	330	U	
91203	Naphthalene	330	U	
106478	4-Chloroaniline	330	U	
87683	Hexachlorobutadiene	330	U	
59507	4-Chloro-3-methylphenol	330	U	
91576	2-Methylnaphthalene	330	U	
77474	Hexachlorocyclopentadiene	330	U	
88062	2,4,6-Trichlorophenol	330	U	
95954	2,4,5-Trichlorophenol	830	U	
91587	2-Chloronaphthalene	330	U	
88744	2-Nitroaniline	830	U	
131113	Dimethylphthalate	330	U	
208968	Acenaphthylene	330	U	
606202	2,6-Dinitrotoluene	330	U	
99092	3-Nitroaniline	830	U	
83329	Acenaphthene	330	U	
51285	2,4-Dinitrophenol	830	U	
100027	4-Nitrophenol	830	U	
132649	Dibenzofuran	330	U	
121142	2,4-Dinitrotoluene	330	U	

S 0104

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLK01

Lab Name: H2M LABS, INC. Contract: NYSDEC

Lab Code: 10478 Case No.: RA096 SAS No.: SDG No.: 0122

Matrix: (soil/water) SOIL Lab Sample ID: SBLK(1/24)

Sample wt/vol: 30 (g/ml) G Lab File ID: C03341.D

Level: (low/med) LOW Date Received:

% Moisture: 0 decanted: (Y/N) N Date Extracted: 01/24/97

Concentrated Extract Volume: 500 (uL) Date Analyzed: 02/18/97

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH:

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/KG	Q
84662	Diethylphthalate	330	U	
86737	Fluorene	330	U	
7005723	4-Chlorophenyl-phenylether	330	U	
100016	4-Nitroaniline	830	U	
534521	4,6-Dinitro-2-methylphenol	830	U	
86306	N-Nitrosodiphenylamine	330	U	
101553	4-Bromophenyl-phenylether	330	U	
118741	Hexachlorobenzene	330	U	
87865	Pentachlorophenol	830	U	
85018	Phenanthrene	330	U	
120127	Anthracene	330	U	
86748	Carbazole	330	U	
84742	Di-n-butylphthalate	330	U	
206440	Fluoranthene	330	U	
129000	Pyrene	330	U	
85687	Butylbenzylphthalate	330	U	
56553	Benzo[a]anthracene	330	U	
91941	3,3'-Dichlorobenzidine	330	U	
218019	Chrysene	330	U	
117817	bis(2-Ethylhexyl)phthalate	330	U	
117840	Di-n-octylphthalate	330	U	
205992	Benzo[b]fluoranthene	330	U	
207089	Benzo[k]fluoranthene	330	U	
50328	Benzo[a]pyrene	330	U	
193395	Indeno[1,2,3-cd]pyrene	330	U	
53703	Dibenz[a,h]anthracene	330	U	
191242	Benzo[g,h,i]perylene	330	U	

S 0105

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SBLK01

Lab Name: H2M LABS, INC. Contract: NYSDEC

Lab Code: 10478 Case No.: RA096 SAS No.: SDG No.: 0122

Matrix: (soil/water) SOIL Lab Sample ID: SBLK(1/24)

Sample wt/vol: 30 (g/ml) G Lab File ID: C03341.D

Level: (low/med) LOW Date Received:

% Moisture: 0 decanted: (Y/N) N Date Extracted: 01/24/97

Concentrated Extract Volume: 500 (uL) Date Analyzed: 02/18/97

Injection Volume: 2.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) Y pH:

CONCENTRATION UNITS:

Number TICs found: 84 (ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1. 000141-79-7	3-Penten-2-one, 4-methyl-	3.62	550	JN <i>A</i>
2. <u> </u>	unknown	3.94	450	J
3. 000123-42-2	2-Pentanone, 4-hydroxy-4-methyl	4.31	14000	JN <i>A</i>
4. <u> </u>	unknown	4.43	940	J
5. <u> </u>	unknown alkane	4.49	1200	J
6. <u> </u>	unknown alkane	4.59	1400	J

QA 2/19/97

S 0106

Lab Name: H2M LABS, INC.

Contract: C003180

Lab Code: 10478

Case No.: RA096

SAS No.:

SDG No.: XX0122

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

Analyte	Initial Calib. Blank (ug/L) C		Continuing Calibration Blank (ug/L)						Preparation Blank C		M
	1	C	1	C	2	C	3	C			
Aluminum	-22.0	B	14.6	U	14.6	U	14.6	U	-19.133	B	P
Antimony	2.8	U	2.8	U	2.8	U	2.8	U	2.800	U	P
Arsenic	2.2	U	2.2	U	2.2	U	2.2	U	2.200	U	P
Barium	0.8	U	0.8	U	0.8	U	0.8	U	0.800	U	P
Beryllium	0.4	B	0.3	B	0.4	B	0.5	B	0.100	B	P
Cadmium	0.5	B	0.5	B	0.4	B	0.4	B	0.400	U	P
Calcium	28.7	U	28.7	U	28.7	U	28.7	U	28.700	U	P
Chromium	0.6	B	0.4	B	0.4	U	0.5	B	0.400	U	P
Cobalt	1.0	U	1.0	U	1.0	U	1.0	U	1.000	U	P
Copper	0.4	B	0.4	U	0.4	U	0.4	U	0.400	U	P
Iron	2.6	U	3.6	B	13.2	B	58.8	B	-6.033	B	P
Lead	0.7	U	0.7	U	0.7	U	0.7	U	0.700	U	P
Magnesium	22.7	U	22.7	U	22.7	U	22.7	U	22.700	U	P
Manganese	0.5	B	0.5	B	0.4	B	0.5	B	0.300	U	P
Mercury	-0.1	B	0.1	U	0.1	U	0.1	U	0.100	U	CV
Nickel	1.6	U	1.6	U	1.6	U	1.6	U	1.600	U	P
Potassium	49.0	B	43.1	U	43.1	U	43.1	U	63.867	B	P
Selenium	1.7	U	1.7	U	1.7	U	1.7	U	1.700	U	P
Silver	0.5	U	0.5	U	0.5	U	0.5	U	0.500	U	P
Sodium	9.3	U	9.3	U	9.3	U	9.3	U	83.667	B	P
Thallium	2.0	B	1.9	B	1.7	B	1.7	B	1.300	U	P
Vanadium	1.1	U	1.1	U	1.1	U	1.1	U	1.100	U	P
Zinc	0.7	B	0.6	U	0.6	U	1.0	B	3.133	B	P
Cyanide											

Lab Name: H2M LABS, INC.

Contract: C003180

Lab Code: 10478

Case No.: RA096

SAS No.:

SDG No.: XX0122

Preparation Blank Matrix (soil/water): SOIL

Preparation Blank Concentration Units (ug/L or mg/kg): MG/KG

Analyte	Initial Calib. Blank (ug/L)	C	Continuing Calibration Blank (ug/L)						Prepa- ration Blank	C	M
			1	C	2	C	3	C			
Aluminum			14.6	U					-5.213	B	P
Antimony			2.8	U					0.560	U	P
Arsenic			2.2	U					0.440	U	P
Barium			0.8	U					0.160	U	P
Beryllium			0.5	B					0.020	U	P
Cadmium			0.4	B					0.080	U	P
Calcium			28.7	U					5.740	U	P
Chromium			0.6	B					0.240	B	P
Cobalt			1.0	U					0.200	U	P
Copper			0.4	U					-0.100	B	P
Iron			4.7	B					-1.513	B	P
Lead			0.7	U					0.140	U	P
Magnesium			22.7	U					4.540	U	P
Manganese			0.6	B					0.060	U	P
Mercury			-0.1	B					0.050	U	CV
Nickel			1.6	U					0.320	U	P
Potassium			43.1	U					8.620	U	P
Selenium			1.7	U					0.340	U	P
Silver			0.5	U					0.100	U	P
Sodium			9.3	U					1.860	U	P
Thallium			1.7	B					0.260	U	P
Vanadium			1.1	U					0.220	U	P
Zinc			0.6	B					0.587	B	P
Cyanide											

3 BLANKS

Lab Name: H2M LABS, INC.

Contract: C003180

Lab Code: 10478

Case No.: RA096

SAS No.:

SDG No.: XX0122

Preparation Blank Matrix (soil/water): WATER

Preparation Blank Concentration Units (ug/L or mg/kg): UG/L

Analyte	Initial Calib. Blank (ug/L)		Continuing Calibration Blank (ug/L)						Preparation Blank		M
		C	1	C	2	C	3	C		C	
Aluminum		U		U		U		U			
Antimony	2.8	U	2.8	U	2.8	U	2.8	U			P
Arsenic	2.2	U	2.2	U	2.2	U	2.2	U			P
Barium											
Beryllium											
Cadmium	0.5	B	0.6	B	0.6	B	0.5	B			P
Calcium	28.7	U	46.0	B	28.7	U	46.6	B			P
Chromium	0.4	U	0.4	B	0.4	U	0.4	B			P
Cobalt											
Copper	-0.8	B	0.4	U	0.4	U	0.9	B			P
Iron	9.6	B	18.3	B	9.9	B	19.0	B			P
Lead	0.7	U	0.7	U	0.8	B	0.7	U			P
Magnesium	22.7	U	34.6	B	22.7	U	35.8	B			P
Manganese	0.3	B	0.5	B	0.4	B	0.4	B			P
Mercury											
Nickel											
Potassium											
Selenium	1.7	U	1.7	U	1.7	U	1.7	U			P
Silver	-1.2	B	0.5	U	0.5	U	0.7	B			P
Sodium											
Thallium	2.5	B	1.7	B	1.6	B	2.2	B			P
Vanadium	1.1	U	1.1	U	1.1	U	1.1	U			P
Zinc	0.6	U	0.6	U	0.6	U	0.9	B			P
Cyanide											

- 10. INTERNAL STANDARD AREA DATA
 - 10.1 VOLATILES
 - 10.2 SEMIVOLATILES

8A
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: H2M LABS INC. Contract: _____
 Lab Code: _____ Case No.: RA096 SAS No.: _____ SDG No.: NDEC012
 Lab File ID (Standard): P05498.D Date Analyzed: 01/28/97
 Instrument ID: 5970 Time Analyzed: 12:21
 GC Column: RTX502.2 ID: 0.53 (mm) Heated Purge: (Y/N) N

	IS1(BCM) AREA #	RT #	IS2(DFB) AREA #	RT #	IS3(CBZ) AREA #	RT #
12 HOUR ST	78170	10.95	306444	12.36	243567	17.63
UPPER LIMIT	156340	10.45	612888	11.86	487134	17.13
LOWER LIMIT	39085	11.45	153222	12.86	121784	18.13
EPA SAMPLE NO.						
01 VBLK28	81220	10.97	314671	12.38	248528	17.64
02 B60222	71923	10.99	256802	12.41	208764	17.68

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

AREA UPPER LIMIT = +100% of internal standard area
 AREA LOWER LIMIT = - 50% of internal standard area
 RT UPPER LIMIT = +0.50 minutes of internal standard RT
 RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column to be used to flag values outside QC limit with an asterisk.

* Values outside of contract required QC limits

S 0111

8A
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: H2M LABS INC. Contract: _____
 Lab Code: _____ Case No.: RA096 SAS No.: _____ SDG No.: NDEC012
 Lab File ID (Standard): P05519.D Date Analyzed: 01/29/97
 Instrument ID: 5970 Time Analyzed: 13:49
 GC Column: RTX502.2 ID: 0.53 (mm) Heated Purge: (Y/N) N

	IS1(BCM) AREA #	RT #	IS2(DFB) AREA #	RT #	IS3(CBZ) AREA #	RT #
12 HOUR ST	84715	11.05	357408	12.47	281348	17.73
UPPER LIMIT	169430	10.55	714816	11.97	562696	17.23
LOWER LIMIT	42358	11.55	178704	12.97	140674	18.23
EPA SAMPLE NO.						
01 VBLK29	80883	11.05	321665	12.46	254883	17.72
02 B60220	76995	11.03	286473	12.44	235900	17.70
03 B60221	75310	11.02	287337	12.43	237635	17.70
04 B60221DL	80616	11.04	301064	12.45	249975	17.72
05 B60222DL	74735	11.05	284111	12.47	229416	17.73

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

AREA UPPER LIMIT = +100% of internal standard area
 AREA LOWER LIMIT = - 50% of internal standard area
 RT UPPER LIMIT = +0.50 minutes of internal standard RT
 RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column to be used to flag values outside QC limit with an asterisk.

* Values outside of contract required QC limits

S 0112

8A
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: H2M LABS INC. Contract: _____
 Lab Code: _____ Case No.: RA096 SAS No.: _____ SDG No.: NDEC012
 Lab File ID (Standard): P05537.D Date Analyzed: 01/30/97
 Instrument ID: 5970 Time Analyzed: 12:11
 GC Column: RTX502.2 ID: 0.53 (mm) Heated Purge: (Y/N) N

	IS1(BCM) AREA #	RT #	IS2(DFB) AREA #	RT #	IS3(CBZ) AREA #	RT #
12 HOUR ST	65762	11.08	260179	12.49	211874	17.76
UPPER LIMIT	131524	10.58	520358	11.99	423748	17.26
LOWER LIMIT	32881	11.58	130090	12.99	105937	18.26
EPA SAMPLE NO.						
01 VBLK30	68310	11.07	268160	12.49	224941	17.75
02 B60220DL	79675	11.08	303278	12.48	259232	17.74
03 TRIP BLANK	78478	11.07	285800	12.47	246038	17.76

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

AREA UPPER LIMIT = +100% of internal standard area
 AREA LOWER LIMIT = - 50% of internal standard area
 RT UPPER LIMIT = +0.50 minutes of internal standard RT
 RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column to be used to flag values outside QC limit with an asterisk.

* Values outside of contract required QC limits

S 0113

8A
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: H2M LABS INC. Contract: _____
 Lab Code: _____ Case No.: RA096 SAS No.: _____ SDG No.: NDEC012
 Lab File ID (Standard): P05461.D Date Analyzed: 01/24/97
 Instrument ID: 5970 Time Analyzed: 10:19
 GC Column: RTX502.2 ID: 0.53 (mm) Heated Purge: (Y/N) Y

	IS1(BCM) AREA #	RT #	IS2(DFB) AREA #	RT #	IS3(CBZ) AREA #	RT #
12 HOUR ST	109635	11.27	392211	12.68	313283	17.96
UPPER LIMIT	219270	10.77	784422	12.18	626566	17.46
LOWER LIMIT	54818	11.77	196106	13.18	156642	18.46
EPA SAMPLE NO.						
01 VBLK24	115408	11.27	419490	12.69	342222	17.96
02 B60211	85132	11.23	268090	12.65	188631	17.94
03 B60212	95032	11.25	334315	12.65	271577	17.93
04 B60213	100394	11.25	341648	12.66	278985	17.94
05 B60215	95160	11.23	325463	12.65	252112	17.93
06 B60216	101595	11.23	356095	12.64	288427	17.94
07 B60217	104319	11.23	359980	12.64	293041	17.92

IS1 (BCM) = Bromochloromethane

IS2 (DFB) = 1,4-Difluorobenzene

IS3 (CBZ) = Chlorobenzene-d5

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = - 50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column to be used to flag values outside QC limit with an asterisk.

* Values outside of contract required QC limits

S 011.1

8A
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: H2M LABS INC. Contract: _____
 Lab Code: _____ Case No.: RA096 SAS No.: _____ SDG No.: NDEC012
 Lab File ID (Standard): P05484.D Date Analyzed: 01/27/97
 Instrument ID: 5970 Time Analyzed: 15:21
 GC Column: RTX502.2 ID: 0.53 (mm) Heated Purge: (Y/N) Y

	IS1(BCM) AREA #	RT #	IS2(DFB) AREA #	RT #	IS3(CBZ) AREA #	RT #
12 HOUR ST	98034	11.26	366979	12.66	293533	17.95
UPPER LIMIT	196068	10.76	733958	12.16	587066	17.45
LOWER LIMIT	49017	11.76	183490	13.16	146767	18.45
EPA SAMPLE NO.						
01 VBLK27	101911	11.26	382720	12.66	316692	17.95
02 B60211DL	107352	11.25	384576	12.67	311003	17.95
03 B60215DL	99827	11.26	354212	12.67	283989	17.95
04 B60218	89348	11.25	312093	12.66	253919	17.94

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

AREA UPPER LIMIT = +100% of internal standard area
 AREA LOWER LIMIT = - 50% of internal standard area
 RT UPPER LIMIT = +0.50 minutes of internal standard RT
 RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column to be used to flag values outside QC limit with an asterisk.

* Values outside of contract required QC limits

S 0115

8B
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: H2M LABS, INC. Contract: NYSDEC
 Lab Code: 10478 Case No.: RA096 SAS No.: SDG No.: 0122
 Lab File ID (Standard): C03337.D Date Analyzed: 02/18/97
 Instrument ID: H5972 Time Analyzed: 15:36

	IS1(DCB)		IS2(NAP)		IS3(ACE)	
	AREA #	RT #	AREA #	RT #	AREA #	RT #
12 HOUR STD	126772	6.27	476773	8.29	245835	11.62
UPPER LIMIT	253544	6.77	953546	8.79	491670	12.12
LOWER LIMIT	63386	5.77	238387	7.79	122918	11.12

EPA SAMPLE
NO.

01	SBLK01	111002	6.28	390720	8.29	192722	11.62
02	LFB(1/24)	106980	6.27	386238	8.29	194411	11.62
03	B60214	109542	6.28	414565	8.29	214177	11.62

IS1 (DCB) = 1,4-Dichlorobenzene-d4
 IS2 (NAP) = Naphthalene-d8
 IS3 (ACE) = Acenaphthene-d10
 IS4 (PHN) = Phenanthrene-d10
 IS5 (CHY) = Chrysene-d12
 IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area
 AREA LOWER LIMIT = - 50% of internal standard area
 RT UPPER LIMIT = +0.50 minutes of internal standard RT
 RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column to be used to flag values outside QC limit with an asterisk.
 * Values outside of contract required QC limits

S 0116

8C
SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: H2M LABS, INC. Contract: NYSDEC
 Lab Code: 10478 Case No.: RA096 SAS No.: SDG No.: 0122
 Lab File ID (Standard): C03337.D Date Analyzed: 02/18/97
 Instrument ID: H5972 Time Analyzed: 15:36

	IS4(PHN)		IS5(CHY)		IS6(PRY)	
	AREA	#	RT	#	AREA	#
12 HOUR STD	375423		14.01		381441	
UPPER LIMIT	750846		14.51		762882	
LOWER LIMIT	187712		13.51		190721	

EPA SAMPLE
NO.

01	SBLK01	316487	14.01	289167	16.69	294705	18.45
02	LFB(1/24)	328469	14.01	278118	16.69	308321	18.45
03	B60214	326914	14.01	240612	16.68	281452	18.46

IS1 (DCB) = 1,4-Dichlorobenzene-d4
 IS2 (NAP) = Naphthalene-d8
 IS3 (ACE) = Acenaphthene-d10
 IS4 (PHN) = Phenanthrene-d10
 IS5 (CHY) = Chrysene-d12
 IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area
 AREA LOWER LIMIT = - 50% of internal standard area
 RT UPPER LIMIT = +0.50 minutes of internal standard RT
 RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column to be used to flag values outside QC limit with an asterisk.
 * Values outside of contract required QC limits

S 0117

A6SP-01

Soils

Analytical Data Package For

B60201 to B60210

NEW YORK STATE DEPARTMENT OF
ENVIRONMENTAL CONSERVATION
REGION 1

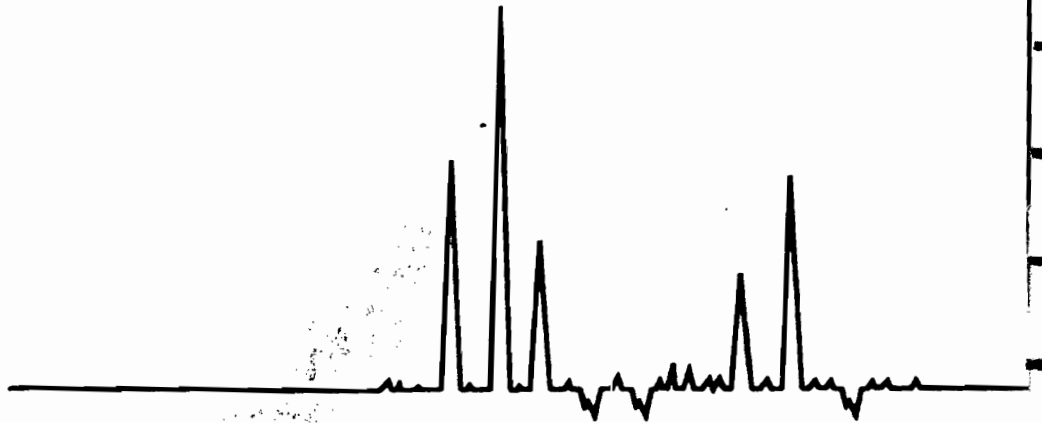
CONTRACT #: C003180

CASE #: RA096 SDG #: 0121

SOIL SAMPLES
RECEIVED: 1/23/97

VOLATILE DATA

JANUARY 1997



H2M LABS, INC.

Environmental Testing Laboratories
575 Broad Hollow Road, Melville, N.Y. 11747

ANALYTICAL DATA PACKAGE

TABLE OF CONTENTS

**NEW YORK STATE
DEPARTMENT OF ENVIRONMENTAL CONSERVATION
REGION 1
CONTRACT #: C003180
CASE: RA096
SDG NO.: 0121
LAB CODE: 10478
SAMPLES RECEIVED: 1/23/97**

- I. NYS DEC SUMMARY FORMS**
- II. CASE NARRATIVES**
- III. CONTRACT LAB SAMPLE INFORMATION SHEET**
- IV. CHAIN OF CUSTODY DOCUMENTATION**
- V. ANALYTICAL DATA PACKAGES**
- VI. CSF PURGE PACKAGE (BTSR ONLY)**
- DATA PACKAGE FOR CLIENT INFORMATION
PURPOSES ONLY**

H2M LABS, INC.

I. NYS DEC SUMMARY FORMS

H2M LABS, INC.

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SAMPLE IDENTIFICATION AND
ANALYTICAL REQUIREMENT SUMMARY
NYS DEC

CONTRACT NO.: C003180

CASE NO.: RA096

SDG NO: 0121

SAMPLES RECEIVED: 1/23/97

[illegible]

* Check Appropriate Boxes

☒ CLP ☐ Non-CLP (Please indicate year of protocol) 4/93 Rev

(TCL/TAL, HSL,

VOLATILE SAMPLE ANALYSIS SUMMARY

SDG: 0121

SAMPLE ID	MATRIX	PROT- OCOL	LEVEL	DIL. FACT.	DATE COLLECTED	DATE RECEIVED	DATE ANALYZED
B60250	SOIL	CLP	LOW	1	1/21/97	1/23/97	1/24/97
B60201MS	SOIL	CLP	LOW	1	1/21/97	1/23/97	1/24/97
B60201MSD	SOIL	CLP	LOW	1	1/21/97	1/23/97	1/24/97
B60202	SOIL	CLP	LOW	1	1/21/97	1/23/97	1/24/97
B60203	SOIL	CLP	LOW	1	1/21/97	1/23/97	1/24/97
B60204	SOIL	CLP	LOW	1	1/21/97	1/23/97	1/24/97
B60205 RE	SOIL	CLP	LOW	1	1/21/97	1/23/97	2/5/97
B60206	SOIL	CLP	LOW	1	1/21/97	1/23/97	1/24/97
B60207	SOIL	CLP	LOW	1	1/21/97	1/23/97	1/24/97
B60208	SOIL	CLP	LOW	1	1/21/97	1/23/97	1/24/97
B60209	SOIL	CLP	LOW	1	1/21/97	1/23/97	1/24/97
B60210	SOIL	CLP	LOW	1	1/21/97	1/23/97	1/24/97

B60205

SOIL

CLP

LOW

1

1/21/97

1/23/97

1/24/97

Page 4 of 6

1/20/97

A 0004

H2M LABS, INC.

II. CASE NARRATIVES

SDG NARRATIVE FOR VOLATILES
CONTRACT C003180
CASE: RA096
SDG: 0121
SAMPLES RECEIVED: 1/23/97

For Samples:	B60201 MS/MSD	B60206
	B60202	B60207
	B60203	B60208
	B60204	B60209
	B60205	B60210

The above samples were analyzed according to the requirements of the NYSDEC ASP method 91-1 for the TCL volatile organic analytes.

Sample B60205 was originally analyzed on January 24, 1997 but was unable to be reported due to a corrupt data file. The chromatogram and quant report are included. The sample was reanalyzed on February 5, 1997 and is reported.

All quality control and calibration requirements were met.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his designee, as verified by the following signature.

Date Reported: February 10, 1997

*  *

Joann M. Slavin
Quality Assurance Manager

JMS\brf
S:\Labshare\VOA0121.doc

H2M LABS, INC.

III. CONTRACT LAB SAMPLE INFORMATION SHEET

A 0007

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
CONTRACT LAB SAMPLE INFORMATION SHEET

Print legibly

Part 3

CAUTION (check if applicable)

- ☐ Lab Personnel are expected to use caution when handling DEC samples, however, please use special precautions when handling this sample since it is believed to contain significant concentrations of hazardous and/or toxic material(s).

COPY
 ORIGINAL LOCATED:
 BOUND COPY
 OF CASE: RA096 SDG: 0121
 DATE: 2-10-97
 INITIALS: MTS

Place QA Label Here

CHECK THE BOX PRECEDING THE REQUESTED ANALYSIS**PRIORITY POLLUTANTS (Water Part 136)—SPDES**

☐ 2. 13 PP Metals	☐ 3. Volatiles—(USEPA 824 GC/MS)	☐ 6. Pesticides/PCB's (USEPA 808-GC)
☐ 4. Acids/Bases/Neutrals (USEPA 825-GC/MS)	☐ 5. Cyanide	☐ 9. BOD
☐ 7. Halogenated Volatiles (USEPA 801-GC)	☐ 8. Aromatic Volatiles (USEPA 802-GC)	☐ 12. TSS
☐ 10. pH	☐ 11. COD	☐ 15. Ammonia
☐ 13. Settlesable Solids	☐ 14. TKN	☐ 18. Reactive Phosphorus
☐ 16. Nitrate/Nitrite	☐ 17. Total Phosphorus	☐ 21. Total Phenols
☐ 19. Oil/Grease	☐ 20. TOC	☐ 60. PCB's: congener method
☐ 22. Other _____	☐ 59. PCB's at 0.065 ug/L	☐ 64. Total Solids
	☐ 62. CBOD	☐ 65. Volatiles (USEPA 524.2 GC/MS)

CONTRACT LABORATORY PROTOCOLS

☐ 23. (ALL)—Water—Includes 24-28	☐ 29. (ALL)—Soil/Sediments—Includes 30-34
☐ 24. Base/Neutral/Acid (B/N/A)—Water—GC/MS (ASP #89-2)	☐ 30. B/N/A—Soils/Sediment—GC/MS (ASP #89-2)
☐ 25. Volatile Organic Analysis VOA—Water—GC/MS (ASP #89-1)	☒ 31. VOA—Soils/Sediments—GC/MS (ASP #89-1)
☐ 26. Pesticides/PCB's—Water—GC (ASP #89-3)	☐ 32. Pesticides/PCB's—Soils/Sediment—GC (ASP #89-3)
☐ 27. Metals—23 in Water	☐ 33. Metals—23 in Soil/Sediment
☐ 28. Cyanide—Water	☐ 34. Cyanide—Soils/Sediment
☐ 66. Dioxin—Water (ASP #89-4)	☐ 67. Dioxin—Soil/Sediment (ASP #89-4)
☐ 35. Other _____	

HAZARDOUS WASTES/RCRA ANALYSIS SW-846

☐ 36. EP Toxicity	☐ 37. EP Toxicity (Metals Only)	☐ 38. Ignitability
☐ 39. Corrosivity	☐ 40. VOA—(USEPA 824 GC/MS)	☐ 41. BNA—(USEPA 8270-GC/MS)
☐ 42. Pesticides/PCB's (USEPA 8080)	☐ 43. TCLP	☐ 44. TCLP (Metals Only)
☐ 45. Reactivity	☐ 46. Dioxin (USEPA 8280)	☐ 47. Appendix IX
☐ 48. Other _____	☐ 63. Percent Solids	☐ 68. Metals—17 Hazardous

MUNICIPAL SLUDGE

☐ 49. RSG-01	☐ 50. RSSR-01	☐ 51. RSGR-01	☐ 52. RSRB-01	☐ 53. RSRI-01 (EP Toxicity-Metals only + RSRR-01)
☐ 54. RSRO-01	☐ 55. RSSB-01	☐ 56. RSRR-01	☐ 57. RSRR-02	☐ 58. Other _____

COLLECTED BY:

JG Jones

TELEPHONE NUMBER:

516-457-1708

REGION NO:

1

CONTRACT LAB:

H2M

COUNTY:

Nassau

SAMPLING DATE:

1-21-97

MILITARY TIME:

10:30

SAMPLE MATRIX:

- ☐ Air ☒ Soil/Sediment ☐ Groundwater ☐ Surface Water ☐ Wastewater ☐ Other (Specify) _____

CASE NUMBER

RA096

SDG NUMBER

0121

SAMPLE NUMBER

B60201

CHECK FOR MS/MD☐ This Sample**TYPE OF SAMPLE:**
☐ Grab ☐ Composite ☐ Term _____ has

☒ Check if there will be more samples with this SDG sent in this calendar week.
Report via Category B, unless checked ☐**SAMPLING POINT:**
 Check if field duplicate ☐

Outfall Number

 Check if sampling is part of inspection ☐

SPDES NUMBER/REGISTRY NUMBER

FLOW

 GPD
 MGD

A 0008

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

CONTRACT LAB SAMPLE INFORMATION SHEET

Print legibly

Part 3

CAUTION (check if applicable)

- ☐ Lab Personnel are expected to use caution when handling DEC samples, however, please use special precautions when handling this sample since it is believed to contain significant concentrations of hazardous and/or toxic material(s).

COPY	
ORIGINAL LOCATED:	
BOUND USE OF CASE - RA096 SDG: 0121	
INITIALS	DATE
MTS	2-10-97

Place QA Label Here

CHECK THE BOX PRECEDING THE REQUESTED ANALYSIS**PRIORITY POLLUTANTS (Water Part 136)—SPDES**

☐ 2. 13 PP Metals	☐ 3. Volatiles—(USEPA 624 GC/MS)	☐ 6. Pesticides/PCB's (USEPA 608-GC)
☐ 4. Acids Base/Neutrals (USEPA 625-GC/MS)	☐ 5. Cyanide	☐ 9. BOD
☐ 7. Halogenated Volatiles (USEPA 601-GC)	☐ 8. Aromatic Volatiles (USEPA 602-GC)	☐ 12. TSS
☐ 10. pH	☐ 11. COD	☐ 15. Ammonia
☐ 13. Settleable Solids	☐ 14. TKN	☐ 18. Reactive Phosphorus
☐ 16. Nitrate/Nitrite	☐ 17. Total Phosphorus	☐ 21. Total Phenols
☐ 19. Oil/Grease	☐ 20. TOC	☐ 60. PCB's congener method
☐ 22. Other _____	☐ 59. PCB's at 0.065 ug/L	☐ 64. Total Solids
	☐ 62. CBOD	☐ 65. Volatiles (USEPA 524.2 GC/MS)

CONTRACT LABORATORY PROTOCOLS

☐ 23. (ALL)—Water—Includes 24-28	☐ 29. (ALL)—Soil/Sediments—Includes 30-34
☐ 24. Base/Neutral/Acid (B/N/A)—Water—GC/MS (ASP #89-2)	☐ 30. B/N/A—Soils/Sediment—GC/MS (ASP #89-2)
☐ 25. Volatile Organic Analysis VOA—Water—GC/MS (ASP #89-1)	☐ 31. VOA—Soils/Sediments—GC/MS (ASP #89-1)
☐ 26. Pesticides/PCB's—Water—GC (ASP #89-3)	☐ 32. Pesticides/PCB's—Soils/Sediment—GC (ASP #89-3)
☐ 27. Metals—23 in Water	☐ 33. Metals—23 in Soil/Sediment
☐ 28. Cyanide—Water	☐ 34. Cyanide—Soils/Sediment
☐ 66. Dioxin—Water (ASP #89-4)	☐ 67. Dioxin—Soil/Sediment (ASP #89-4)
☐ 35. Other _____	

HAZARDOUS WASTES/RCRA ANALYSIS SW-846

☐ 36. EP Toxicity	☐ 37. EP Toxicity (Metals Only)	☐ 38. Ignitability
☐ 39. Corrosivity	☐ 40. VOA—(USEPA 8240-GC/MS)	☐ 41. BNA—(USEPA 8270-GC/MS)
☐ 42. Pesticides/PCB's (USEPA 8080)	☐ 43. TCLP	☐ 44. TCLP (Metals Only)
☐ 45. Reactivity	☐ 46. Dioxin (USEPA 8280)	☐ 47. Appendix IX
☐ 48. Other _____	☐ 63. Percent Solids	☐ 68. Metals—17 Hazardous

MUNICIPAL SLUDGE

☐ 49. RSG-01	☐ 50. RSSR-01	☐ 51. RSGR-01	☐ 52. RSRB-01	☐ 53. RSRI-01 (EP Toxicity-Metals only + RSSR-01)
☐ 54. RSRO-01	☐ 55. RSSB-01	☐ 56. RSRR-01	☐ 57. RSRR-02	☐ 58. Other _____

COLLECTED BY:

JG Jones

TELEPHONE NUMBER:

516-457-1708

REGION NO:

1

CONTRACT LAB:

H2M

COUNTY:

Nassau

SAMPLING DATE:

1-21-97

MILITARY TIME:

10:50

SAMPLE MATRIX:

- ☐ Air ☒ Soil/Sediment ☐ Groundwater ☐ Surface Water ☐ Wastewater ☐ Other (Specify) _____

CASE NUMBER

RA096

SDG NUMBER

0121

SAMPLE NUMBER

B60202

CHECK FOR MS/MD

☐ This Sample

TYPE OF SAMPLE:

☐ Grab ☐ Composite ☐ Term _____ hrs☒ Check if there will be more samples with this SDG sent in this calendar weekReport via Category B, unless checked ☐

SAMPLING POINT:

Check if field duplicate ☐

Outfall Number

Check if sampling is part of inspection ☐

SPDES NUMBER/REGISTRY NUMBER

FLOW

GPD
MGD

A 0099

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

CONTRACT LAB SAMPLE INFORMATION SHEET

Print legibly

Part 3

CAUTION (check if applicable)

- ☐ Lab Personnel are expected to use caution when handling DEC samples, however, please use special precautions when handling this sample since it is believed to contain significant concentrations of hazardous and/or toxic material(s).

COPY

ORIGINAL LOCATED:

BOUND CASE: RA096 SDG: 0121

INITIALS

NTS

DATE

2-10-97

Place QA Label Here

CHECK THE BOX PRECEDING THE REQUESTED ANALYSIS

PRIORITY POLLUTANTS (Water Part 136)—SPDES

☐ 2. 13 PP Metals	☐ 3. Volatiles—(USEPA 624 GC/MS)	☐ 6. Pesticides/PCB's (USEPA 608-GC)
☐ 4. Acids Base/Neutrals (USEPA 625-GC/MS)	☐ 5. Cyanide	☐ 9. BOD
☐ 7. Halogenated Volatiles (USEPA 601-GC)	☐ 8. Aromatic Volatiles (USEPA 602-GC)	☐ 12. TSS
☐ 10. pH	☐ 11. COD	☐ 15. Ammonia
☐ 13. Settleable Solids	☐ 14. TKN	☐ 18. Reactive Phosphorus
☐ 16. Nitrate/Nitrite	☐ 17. Total Phosphorus	☐ 21. Total Phenols
☐ 19. Oil/Grease	☐ 20. TOC	☐ 60. PCB's congener method
☐ 22. Other _____	☐ 59. PCB's at 0.065 ug/L	☐ 64. Total Solids
	☐ 62. CBOD	☐ 65. Volatiles (USEPA 524.2 GC/MS)

CONTRACT LABORATORY PROTOCOLS

☐ 23. (ALL)—Water—Includes 24-28	☐ 29. (ALL)— Soil/Sediments—Includes 30-34
☐ 24. Base/Neutral/Acid (B/N/A)—Water—GC/MS (ASP #89-2)	☐ 30. B/N/A—Soils/Sediment—GC/MS (ASP #89-2)
☐ 25. Volatile Organic Analysis VOA—Water—GC/MS(ASP #89-1)	☒ 31. VOA—Soils/Sediments—GC/MS (ASP #19-1)
☐ 26. Pesticides/PCB's—Water—GC(ASP #89-3)	☐ 32. Pesticides/PCB's—Soils/Sediment—GC (ASP #89-3)
☐ 27. Metals—23 in Water	☐ 33. Metals—23 in Soil/Sediment
☐ 28. Cyanide—Water	☐ 34. Cyanide—Soils/Sediment
☐ 66. Dioxin-Water (ASP #89-4)	☐ 67. Dioxin-Soil/Sediment (ASP #89-4)
☐ 35. Other _____	

HAZARDOUS WASTES/RCRA ANALYSIS SW-846

☐ 36. EP Toxicity	☐ 37. EP Toxicity (Metals Only)	☐ 38. Ignitability
☐ 39. Corrosivity	☐ 40. VOA—(USEPA 8240-GC/MS)	☐ 41. BNA—(USEPA 8270-GC/MS)
☐ 42. Pesticides/PCB's (USEPA 8080)	☐ 43. TCLP	☐ 44. TCLP (Metals Only)
☐ 45. Reactivity	☐ 46. Dioxin (USEPA 8280)	☐ 47. Appendix IX
☐ 48. Other _____	☐ 63. Percent Solids	☐ 68. Metals—17 Hazardous

MUNICIPAL SLUDGE

☐ 49. RSG-01	☐ 50. RSSR-01	☐ 51. RSGR-01	☐ 52. RSRB-01	☐ 53. RSRI-01 (EP Toxicity-Metals only + RSSR-01)
☐ 54. RSRO-01	☐ 55. RSSB-01	☐ 56. RSRR-01	☐ 57. RSRR-02	☐ 58. Other _____

COLLECTED BY:

J. G. Jancy

TELEPHONE NUMBER:

518-457-1708

REGION NO:

1

CONTRACT LAB:

H₂M

COUNTY:

Nassau

SAMPLING DATE:

1/21/97

MILITARY TIME:

11:10

SAMPLE MATRIX:

- ☐ Air ☒ Soil/Sediment ☐ Groundwater ☐ Surface Water ☐ Wastewater ☐ Other (Specify) _____

CASE NUMBER

RA-0960121

SDG NUMBER

0121

SAMPLE NUMBER

060203

CHECK FOR MS/MD

☐ This Sample

TYPE OF SAMPLE:

☐ Grab ☐ Composite ☐ Term _____ hrs☒ Check if there will be more samples with this SDG sent in this calendar weekReport via Category B, unless checked ☐

SAMPLING POINT:

Check if field duplicate ☐

Outfall Number

Check if sampling is part of inspection ☐

SPDES NUMBER/REGISTRY NUMBER

FLOW

GPD

MGD

A 0010

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
CONTRACT LAB SAMPLE INFORMATION SHEET

Print legibly

Part 3

CAUTION (check if applicable)

- ☐ Lab Personnel are expected to use caution when handling DEC samples, however, please use special precautions when handling this sample since it is believed to contain significant concentrations of hazardous and/or toxic material(s).

Place QA Label Here

COPY	
ORIGINAL LOCATED:	
BOUND CSP	SDG: 0121
OF CASE: RAC96	
DATE	2-10-97
INITIALS	NTS

CHECK THE BOX PRECEDING THE REQUESTED ANALYSIS**PRIORITY POLLUTANTS (Water Part 136)—SPDES**

☐ 2. 13 PP Metals	☐ 3. Volatiles—(USEPA 624 GC/MS)	☐ 6. Pesticides/PCB's (USEPA 608-GC)
☐ 4. Acids Base/Neutrals (USEPA 625-GC/MS)	☐ 5. Cyanide	☐ 9. BOD
☐ 7. Halogenated Volatiles (USEPA 601-GC)	☐ 8. Aromatic Volatiles (USEPA 602-GC)	☐ 12. TSS
☐ 10. pH	☐ 11. COD	☐ 15. Ammonia
☐ 13. Settleable Solids	☐ 14. TKN	☐ 18. Reactive Phosphorus
☐ 16. Nitrate/Nitrite	☐ 17. Total Phosphorus	☐ 21. Total Phenols
☐ 19. Oil/Grease	☐ 20. TOC	☐ 60. PCB's congener method
☐ 22. Other _____	☐ 59. PCB's at 0.065 ug/L	☐ 64. Total Solids
	☐ 62. CBOD	☐ 65. Volatiles (USEPA 524.2 GC/MS)

CONTRACT LABORATORY PROTOCOLS

☐ 23. (ALL)—Water—Includes 24-28	☐ 29. (ALL)— Soil/Sediments—Includes 30-34
☐ 24. Base/Neutral/Acid (B/N/A)—Water—GC/MS (ASP #89-2)	☐ 30. B/N/A—Soils/Sediment—GC/MS (ASP #89-2)
☐ 25. Volatile Organic Analysis VOA—Water—GC/MS(ASP #89-1)	☒ 31. VOA—Soils/Sediments—GC/MS (ASP #89-1)
☐ 26. Pesticides/PCB's—Water—GC(ASP #89-3)	☐ 32. Pesticides/PCB's—Soils/Sediment—GC (ASP #89-3)
☐ 27. Metals—23 in Water	☐ 33. Metals—23 in Soil/Sediment
☐ 28. Cyanide—Water	☐ 34. Cyanide—Soils/Sediment
☐ 66. Dioxin-Water (ASP #89-4)	☐ 67. Dioxin-Soil/Sediment (ASP #89-4)
☐ 35. Other _____	

HAZARDOUS WASTES/RCRA ANALYSIS SW-846

☐ 35. EP Toxicity	☐ 37. EP Toxicity (Metals Only)	☐ 38. Ignitability
☐ 39. Corrosivity	☐ 40. VOA—(USEPA 8240-GC/MS)	☐ 41. BNA—(USEPA 8270-GC/MS)
☐ 42. Pesticides/PCB's (USEPA 8080)	☐ 43. TCLP	☐ 44. TCLP (Metals Only)
☐ 45. Reactivity	☐ 46. Dioxin (USEPA 8280)	☐ 47. Appendix IX
☐ 48. Other _____	☐ 63. Percent Solids	☐ 68. Metals—17 Hazardous

MUNICIPAL SLUDGE

☐ 49. RSG-01	☐ 50. RSSR-01	☐ 51. RSGR-01	☐ 52. RSRB-01	☐ 53. RSRI-01 (EP Toxicity-Metals only + RSSR-01)
☐ 54. RSRO-01	☐ 55. RSSB-01	☐ 56. RSRR-01	☐ 57. RSRR-02	☐ 58. Other _____

COLLECTED BY:

JG Jones

TELEPHONE NUMBER:

518-457-1708

REGION NO:

1

CONTRACT LAB:

HLM

COUNTY:

Nassau

SAMPLING DATE:

1/21/97

MILITARY TIME:

11:25

SAMPLE MATRIX:

- ☐ Air ☒ Soil/Sediment ☐ Groundwater ☐ Surface Water ☐ Wastewater ☐ Other (Specify) _____

CASE NUMBER

RIA 096

SDG NUMBER

0121

SAMPLE NUMBER

366204

CHECK FOR MS/MD

☐ This Sample

TYPE OF SAMPLE:

☐ Grab☐ Composite☐ Term _____ hrs☒ Check if there will be more samples with this SDG sent in this calendar weekReport via Category B, unless checked ☐

SAMPLING POINT:

Check if field duplicate ☐

Outfall Number

Check if sampling is part of inspection ☐

SPDES NUMBER/REGISTRY NUMBER

FLOW

GPD

MGD

A 0011

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
CONTRACT LAB SAMPLE INFORMATION SHEET

Print legibly

Part 3

CAUTION (check if applicable)

- ☐ Lab Personnel are expected to use caution when handling DEC samples, however, please use special precautions when handling this sample since it is believed to contain significant concentrations of hazardous and/or toxic material(s).

COPY

ORIGINAL LOCATED:

BOND OFF
RECEIVED RA096 SITE 0121DATE 2-10-97
INITIALS YTS

Place QA Label Here

CHECK THE BOX PRECEDING THE REQUESTED ANALYSIS**PRIORITY POLLUTANTS (Water Part 136)—SPDES**

☐ 2. 13 PP Metals	☐ 3. Volatiles—(USEPA 624 GC/MS)	☐ 6. Pesticides/PCB's (USEPA 608-GC)
☐ 4. Acids/Bases/Neutrals (USEPA 625-GC/MS)	☐ 5. Cyanide	☐ 9. BOD
☐ 7. Halogenated Volatiles (USEPA 601-GC)	☐ 8. Aromatic Volatiles (USEPA 602-GC)	☐ 12. TSS
☐ 10. pH	☐ 11. COD	☐ 15. Ammonia
☐ 13. Settleable Solids	☐ 14. TKN	☐ 18. Reactive Phosphorus
☐ 16. Nitrate/Nitrite	☐ 17. Total Phosphorus	☐ 21. Total Phenols
☐ 19. Oil/Grease	☐ 20. TOC	☐ 60. PCB's congener method
☐ 22. Other _____	☐ 59. PCB's at 0.065 ug/L	☐ 64. Total Solids
	☐ 62. CBOD	☐ 65. Volatiles (USEPA 524.2 GC/MS)

CONTRACT LABORATORY PROTOCOLS

☐ 23. (ALL)—Water—Includes 24-28	☐ 29. (ALL)—Soil/Sediments—Includes 30-34
☐ 24. Base/Neutral/Acid (B/N/A)—Water—GC/MS (ASP #89-2)	☐ 30. B/N/A—Soils/Sediment—GC/MS (ASP #89-2)
☐ 25. Volatile Organic Analysis VOA—Water—GC/MS (ASP #89-1)	☒ 31. VOA—Soils/Sediments—GC/MS (ASP #89-1)
☐ 26. Pesticides/PCB's—Water—GC (ASP #89-3)	☐ 32. Pesticides/PCB's—Soils/Sediment—GC (ASP #89-3)
☐ 27. Metals—23 in Water	☐ 33. Metals—23 in Soil/Sediment
☐ 28. Cyanide—Water	☐ 34. Cyanide—Soils/Sediment
☐ 66. Dioxin—Water (ASP #89-4)	☐ 67. Dioxin—Soil/Sediment (ASP #89-4)
☐ 35. Other _____	

HAZARDOUS WASTES/RCRA ANALYSIS SW-846

☐ 36. EP Toxicity	☐ 37. EP Toxicity (Metals Only)	☐ 38. Ignitability
☐ 39. Corrosivity	☐ 40. VOA—(USEPA 824C GC/MS)	☐ 41. BNA—(USEPA 8270-GC/MS)
☐ 42. Pesticides/PCB's (USEPA 8080)	☐ 43. TCLP	☐ 44. TCLP (Metals Only)
☐ 45. Reactivity	☐ 46. Dioxin (USEPA 8280)	☐ 47. Appendix IX
☐ 48. Other _____	☐ 63. Percent Solids	☐ 68. Metals—17 Hazardous

MUNICIPAL SLUDGE

☐ 49. RSGB-01	☐ 50. RSSR-01	☐ 51. RSGR-01	☐ 52. RSRB-01	☐ 53. RSRI-01 (EP Toxicity-Metals only + RSRR-01)
☐ 54. RSRO-01	☐ 55. RSSB-01	☐ 56. RSRR-01	☐ 57. RSRR-02	☐ 58. Other _____

COLLECTED BY:

J. G. Jones

TELEPHONE NUMBER:

518-437-1704

REGION NO:

1

CONTRACT LAB:

H2M

COUNTY:

SAMPLING DATE:

1-21-97

MILITARY TIME:

11:45

SAMPLE MATRIX:

- ☐ Air ☒ Soil/Sediment ☐ Groundwater ☐ Surface Water ☐ Wastewater ☐ Other (Specify) _____

CASE NUMBER

RA096

SDG NUMBER

0121

SAMPLE NUMBER

B60205

CHECK FOR MS/MD

☐ This Sample

TYPE OF SAMPLE:

- ☐ Grab
☐ Composite ☐ Term _____ hrs

☒ Check if there will be more samples with this SDG sent in this calendar weekReport via Category B, unless checked ☐

SAMPLING POINT:

Check if field duplicate ☐

Outfall Number

Check if sampling is part of inspection ☐

SPDES NUMBER/REGISTRY NUMBER

FLOW

GPD
MGD

A 0012

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
CONTRACT LAB SAMPLE INFORMATION SHEET

Print legibly

Part 3

CAUTION (check if applicable)

- ☐ Lab Personnel are expected to use caution when handling DEC samples, however, please use special precautions when handling this sample since it is believed to contain significant concentrations of hazardous and/or toxic material(s).

COPY	
ORIGINAL LOCATED:	
OF CASE: RAC96	SDG: 0121
DATE: 2-10-97	

Place QA Label Here

CHECK THE BOX PRECEDING THE REQUESTED ANALYSIS**PRIORITY POLLUTANTS (Water Part 136)—SPDES**

☐ 2. 13 PP Metals	☐ 3. Volatiles—(USEPA 824 GC/MS)	☐ 6. Pesticides/PCB's (USEPA 608-GC)
☐ 4. Acids Base/Neutrals (USEPA 825-GC/MS)	☐ 5. Cyanide	☐ 9. BOD
☐ 7. Halogenated Volatiles (USEPA 601-GC)	☐ 8. Aromatic Volatiles (USEPA 602-GC)	☐ 12. TSS
☐ 10. pH	☐ 11. COD	☐ 15. Ammonia
☐ 13. Settleable Solids	☐ 14. TKN	☐ 18. Reactive Phosphorus
☐ 16. Nitrate/Nitrite	☐ 17. Total Phosphorus	☐ 21. Total Phenols
☐ 19. Oil/Grease	☐ 20. TOC	☐ 60. PCB's congener method
☐ 22. Other _____	☐ 59. PCB's at 0.065 ug/L	☐ 64. Total Solids
	☐ 62. CBOD	☐ 65. Volatiles (USEPA 524.2 GC/MS)

CONTRACT LABORATORY PROTOCOLS

☐ 23. (ALL)—Water—Includes 24-28	☐ 29. (ALL)—Soil/Sediments—Includes 30-34
☐ 24. Base/Neutral/Acid (B/N/A)—Water—GC/MS (ASP #89-2)	☐ 30. B/N/A—Soils/Sediment—GC/MS (ASP #89-2)
☐ 25. Volatile Organic Analysis VOA—Water—GC/MS(ASP #89-1)	☒ 31. VOA—Soils/Sediments—GC/MS (ASP #89-1)
☐ 26. Pesticides/PCB's—Water—GC(ASP #89-3)	☐ 32. Pesticides/PCB's—Soils/Sediment—GC (ASP #89-3)
☐ 27. Metals—23 in Water	☐ 33. Metals—23 in Soil/Sediment
☐ 28. Cyanide—Water	☐ 34. Cyanide—Soils/Sediment
☐ 66. Dioxin—Water (ASP #89-4)	☐ 67. Dioxin—Soil/Sediment (ASP #89-4)
☐ 35. Other _____	

HAZARDOUS WASTES/RCRA ANALYSIS SW-846

☐ 36. EP Toxicity	☐ 37. EP Toxicity (Metals Or...)	☐ 38. Ignitability
☐ 39. Corrosivity	☐ 40. VOA—(USEPA 8240-GC/MS)	☐ 41. BNA—(USEPA 8270-GC/MS)
☐ 42. Pesticides/PCB's (USEPA 8080)	☐ 43. TCLP	☐ 44. TCLP (Metals Only)
☐ 45. Reactivity	☐ 46. Dioxin (USEPA 8280)	☐ 47. Appendix IX
☐ 48. Other _____	☐ 63. Percent Solids	☐ 68. Metals—17 Hazardous

MUNICIPAL SLUDGE

☐ 49. RSG-01	☐ 50. RSSR-01	☐ 51. RSGR-01	☐ 52. RSRB-01	☐ 53. RSRI-01 (EP Toxicity-Metals only + RSSR-01)
☐ 54. RSRO-01	☐ 55. RSSB-01	☐ 56. RSRR-01	☐ 57. RSRR-02	☐ 58. Other _____

COLLECTED BY:

TELEPHONE NUMBER:

REGION NO:

CONTRACT LAB:

COUNTY:

SAMPLING DATE:

MILITARY TIME:

SAMPLE MATRIX:

- ☐ Air ☒ Soil/Sediment ☐ Groundwater ☐ Surface Water ☐ Wastewater ☐ Other (Specify) _____

CASE NUMBER

SDG NUMBER

SAMPLE NUMBER

CHECK FOR MS/MD

TYPE OF SAMPLE:

☐ Grab

RAC96

B/C 02016

☐ This Sample☐ Composite☐ Term _____ hrs☒ Check if there will be more samples with this SDG sent in this calendar weekReport via Category B, unless checked ☐

SAMPLING POINT:

Check if field duplicate ☐

Outfall Number

Check if sampling is part of inspection ☐

SPDES NUMBER/REGISTRY NUMBER

FLOW

GPD
MGD

A 0013

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
CONTRACT LAB SAMPLE INFORMATION SHEET

Print legibly

Part 3

CAUTION (check if applicable)

- ☐ Lab Personnel are expected to use caution when handling DEC samples, however, please use special precautions when handling this sample since it is believed to contain significant concentrations of hazardous and/or toxic material(s).

Place QA Label Here

COPY	
ORIGINAL LOCATED:	
BOUND COPY OF CASE: RAC96	SDG: 0121
INITIALS NTS	DATE 2-10-97

CHECK THE BOX PRECEDING THE REQUESTED ANALYSIS**PRIORITY POLLUTANTS (Water Part 136)—SPDES**

☐ 2. 13 PP Metals	☐ 3. Volatiles—(USEPA 624 GC/MS)	☐ 6. Pesticides/PCB's (USEPA 608-GC)
☐ 4. Acids Base/Neutrals (USEPA 625-GC/MS)	☐ 5. Cyanide	☐ 9. BOD
☐ 7. Halogenated Volatiles (USEPA 601-GC)	☐ 8. Aromatic Volatiles (USEPA 602-GC)	☐ 12. TSS
☐ 10. pH	☐ 11. COD	☐ 15. Ammonia
☐ 13. Settleable Solids	☐ 14. TKN	☐ 18. Reactive Phosphorus
☐ 16. Nitrate/Nitrite	☐ 17. Total Phosphorus	☐ 21. Total Phenols
☐ 19. Oil/Grease	☐ 20. TOC	☐ 60. PCB's congener method
☐ 22. Other _____	☐ 59. PCB's at 0.065 ug/L	☐ 64. Total Solids
	☐ 62. CBOD	☐ 65. Volatiles (USEPA 524.2 GC/MS)

CONTRACT LABORATORY PROTOCOLS

☐ 23. (ALL)—Water—Includes 24-28	☐ 29. (ALL)—Soil/Sediments—Includes 30-34
☐ 24. Base/Neutral/Acid (B/N/A)—Water—GC/MS (ASP #89-2)	☐ 30. B/N/A—Soils/Sediment—GC/MS (ASP #39-2)
☐ 25. Volatile Organic Analysis VOA—Water—GC/MS(ASP #89-1)	☒ 31. VOA—Soils/Sediments—GC/MS (ASP #89-1)
☐ 26. Pesticides/PCB's—Water—GC(ASP #89-3)	☐ 32. Pesticides/PCB's—Soils/Sediment—GC (ASP #89-3)
☐ 27. Metals—23 in Water	☐ 33. Metals—23 in Soil/Sediment
☐ 28. Cyanide—Water	☐ 34. Cyanide—Soils/Sediment
☐ 66. Dioxin—Water (ASP #89-4)	☐ 67. Dioxin—Soil/Sediment (ASP #89-4)
☐ 35. Other _____	

HAZARDOUS WASTES/RCRA ANALYSIS SW-846

☐ 36. EP Toxicity	☐ 37. EP Toxicity (Metals Only)	☐ 38. Ignitability
☐ 39. Corrosivity	☐ 40. VOA—(USEPA 8240-GC/MS)	☐ 41. BNA—(USEPA 8270-GC/MS)
☐ 42. Pesticides/PCB's (USEPA 8080)	☐ 43. TCLP	☐ 44. TCLF (Metals Only)
☐ 45. Reactivity	☐ 46. Dioxin (USEPA 8280)	☐ 47. Appendix IX
☐ 48. Other _____	☐ 63. Percent Solids	☐ 68. Metals—17 Hazardous

MUNICIPAL SLUDGE

☐ 49. RSSGB-01	☐ 50. RSSR-01	☐ 51. RSGR-01	☐ 52. RSRB-01	☐ 53. RSRI-01 (EP Toxicity-Metals only + RSRR-01)
☐ 54. RSRO-01	☐ 55. RSSB-01	☐ 56. RSRR-01	☐ 57. RSRR-02	☐ 58. Other _____

COLLECTED BY:

J.C. Jones

TELEPHONE NUMBER:

845-467-1706

REGION NO:

1

CONTRACT LAB:

11217

COUNTY:

Nassau

SAMPLING DATE:

1-21-97

MILITARY TIME:

13:30

SAMPLE MATRIX:

- ☐
- Air
- ☒
- Soil/Sediment
- ☐
- Groundwater
- ☐
- Surface Water
- ☐
- Wastewater
- ☐
- Other (Specify) _____

CASE NUMBER

RAC96

SDG NUMBER

0121

SAMPLE NUMBER

B6K207

CHECK FOR MS/MD

☐ This Sample

TYPE OF SAMPLE:

☐ Grab ☐ Composite ☐ Term _____ hrs☐ Check if there will be more samples with this SDG sent in this calendar weekReport via Category B, unless checked ☐

SAMPLING POINT:

Check if field duplicate ☐

Outfall Number

Check if sampling is part of inspection ☐

SPDES NUMBER/REGISTRY NUMBER

FLOW

GPD

MGD

A 0014

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
CONTRACT LAB SAMPLE INFORMATION SHEET

Print legibly

Part 3

CAUTION (check if applicable)

- ☐ Lab Personnel are expected to use caution when handling DEC samples, however, please use special precautions when handling this sample since it is believed to contain significant concentrations of hazardous and/or toxic material(s).

COPY

ORIGINAL LOCATED:

bound CSF
OF CASE: RA096 SDG:0121

DATE

NTS

2-10-97

Place QA Label Here

CHECK THE BOX PRECEDING THE REQUESTED ANALYSIS**PRIORITY POLLUTANTS (Water Part 136)—SPDES**

☐ 2. 13 PP Metals	☐ 3. Volatiles—(USEPA 624 GC/MS)	☐ 6. Pesticides/PCB's (USEPA 608-GC)
☐ 4. Acids Base/Neutrals (USEPA 625-GC/MS)	☐ 5. Cyanide	☐ 9. BOD
☐ 7. Halogenated Volatiles (USEPA 601-GC)	☐ 8. Aromatic Volatiles (USEPA 602-GC)	☐ 12. TSS
☐ 10. pH	☐ 11. COD	☐ 15. Ammonia
☐ 13. Settleable Solids	☐ 14. TKN	☐ 18. Reactive Phosphorus
☐ 16. Nitrate/Nitrite	☐ 17. Total Phosphorus	☐ 21. Total Phenols
☐ 19. Oil/Grease	☐ 20. TOC	☐ 60. PCB's congener method
☐ 22. Other _____	☐ 59. PCB's at 0.065 ug/L	☐ 64. Total Solids
	☐ 62. CBOD	☐ 65. Volatiles (USEPA 524.2 GC/MS)

CONTRACT LABORATORY PROTOCOLS

☐ 23. (ALL)—Water—Includes 24-28	☐ 29. (ALL)— Soil/Sediments—Includes 30-34
☐ 24. Base/Neutral/Acid (B/N/A)—Water—GC/MS (ASP #89-2)	☐ 30. B/N/A—Soils/Sediment—GC/MS (ASP #89-2)
☐ 25. Volatile Organic Analysis VOA—Water—GC/MS(ASP #89-1)	☒ 31. VOA—Soils/Sediments—GC/MS (ASP #89-1)
☐ 26. Pesticides/PCB's—Water—GC(ASP #89-3)	☐ 32. Pesticides/PCB's—Soils/Sediment—GC (ASP #89-3)
☐ 27. Metals—23 in Water	☐ 33. Metals—23 in Soil/Sediment
☐ 28. Cyanide—Water	☐ 34. Cyanide—Soils/Sediment
☐ 36. Dioxin-Water (ASP #89-4)	☒ 35. Dioxin-Soil/Sediment (ASP #89-4)
☐ 35. Other _____	

HAZARDOUS WASTES/RCRA ANALYSIS SW-846

☐ 36. EP Toxicity	☐ 37. EP Toxicity (Metals Only)	☐ 38. Ignitability
☐ 39. Corrosivity	☐ 40. VOA—(USEPA 8240-GC/MS)	☐ 41. BNA—(USEPA 8270-GC/MS)
☐ 42. Pesticides/PCB's (USEPA 8080)	☐ 43. TCLP	☐ 44. TCLP (Metals Only)
☐ 45. Reactivity	☐ 46. Dioxin (USEPA 8280)	☐ 47. Appendix IX
☐ 48. Other _____	☐ 63. Percent Solids	☐ 68. Metals—17 Hazardous

MUNICIPAL SLUDGE

☐ 49. RSGB-01	☐ 50. RSSR-01	☐ 51. RSGR-01	☐ 52. RSRB-01	☐ 53. RSRI-01 (EP Toxicity-Metals only + RSRR-01)
☐ 54. RSRO-01	☐ 55. RSSB-01	☐ 56. RSRR-01	☐ 57. RSRR-02	☐ 58. Other _____

COLLECTED BY:

J. C. Jones

TELEPHONE NUMBER:

516 221-1705

REGION NO:

1

CONTRACT LAB:

H. C. Jones

COUNTY:

Nassau

SAMPLING DATE:

1-11-97

MILITARY TIME:

1355

SAMPLE MATRIX:

- ☐ Air ☒ Soil/Sediment ☐ Groundwater ☐ Surface Water ☐ Wastewater ☐ Other (Specify) _____

CASE NUMBER

RA096

SDG NUMBER

00121

SAMPLE NUMBER

B66208

CHECK FOR MS/MD

☐ This Sample

TYPE OF SAMPLE:

☐ Grab☐ Composite☐ Term _____ hrs☐ Check if there will be more samples with this SDG sent in this calendar weekReport via Category B, unless checked ☐

SAMPLING POINT:

Check if field duplicate ☐

Outfall Number

Check if sampling is part of inspection ☐

SPDES NUMBER/REGISTRY NUMBER

FLOW

GPD
MGD

A 0015

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
CONTRACT LAB SAMPLE INFORMATION SHEET

Part 3

Print legibly

CAUTION (check if applicable)

- ☐ Lab Personnel are expected to use caution when handling DEC samples, however, please use special precautions when handling this sample since it is believed to contain significant concentrations of hazardous and/or toxic material(s).

COPY

ORIGINAL LOCATED:
 FOUND IN: CE CASE: RAC96 SDG: 0121
 DATE: 2-10-97
 INITIALS: NTS

Place QA Label Here

CHECK THE BOX PRECEDING THE REQUESTED ANALYSIS**PRIORITY POLLUTANTS (Water Part 136)—SPDES**

☐ 2. 13 PP Metals	☐ 3. Volatiles—(USEPA 824 GC/MS)	☐ 6. Pesticides/PCB's (USEPA 608-GC)
☐ 4. Acids Base/Neutrals (USEPA 825-GC/MS)	☐ 5. Cyanide	☐ 9. BOD
☐ 7. Halogenated Volatiles (USEPA 601-GC)	☐ 8. Aromatic Volatiles (USEPA 602-GC)	☐ 12. TSS
☐ 10. pH	☐ 11. COD	☐ 15. Ammonia
☐ 13. Settleable Solids	☐ 14. TKN	☐ 18. Reactive Phosphorus
☐ 16. Nitrate/Nitrite	☐ 17. Total Phosphorus	☐ 21. Total Phenols
☐ 19. Oil/Grease	☐ 20. TOC	☐ 60. PCB's congener method
☐ 22. Other _____	☐ 59. PCB's at 0.065 ug/L	☐ 64. Total Solids
	☐ 62. CBOD	☐ 65. Volatiles (USEPA 524.2 GC/MS)

CONTRACT LABORATORY PROTOCOLS

☐ 23. (ALL)—Water—Includes 24-28	☐ 29. (ALL)—Soil/Sediments—Includes 30-34
☐ 24. Base/Neutral/Acid (B/N/A)—Water—GC/MS (ASP #89-2)	☐ 30. B/N/A—Soils/Sediment—GC/MS (ASP #89-2)
☐ 25. Volatile Organic Analysis VOA—Water—GC/MS(ASP #89-1)	☒ 31. VOA—Soils/Sediments—GC/MS (ASP #89-1)
☐ 26. Pesticides/PCB's—Water—GC(ASP #89-3)	☐ 32. Pesticides/PCB's—Soils/Sediment—GC (ASP #89-3)
☐ 27. Metals—23 in Water	☐ 33. Metals—23 InSoil/Sediment
☐ 28. Cyanide—Water	☐ 34. Cyanide—Soils/Sediment
☐ 66. Dioxin-Water (ASP #89-4)	☐ 67. Dioxin-Soil/Sediment (ASP #89-4)
☐ 35. Other _____	

HAZARDOUS WASTES/RCRA ANALYSIS SW-846

☐ 36. EP Toxicity	☐ 37. EP Toxicity (Metals Only)	☐ 38. Ignitability
☐ 39. Corrosivity	☐ 40. VOA—(USEPA 8240 GC/MS)	☐ 41. BNA—(USEPA 8270-GC/MS)
☐ 42. Pesticides/PCB's (USEPA 8080)	☐ 43. TCLP	☐ 44. TCLP (Metals Only)
☐ 45. Reactivity	☐ 46. Dioxin (USEPA 8280)	☐ 47. Appendix IX
☐ 48. Other _____	☐ 63. Percent Solids	☐ 68. Metals—17 Hazardous

MUNICIPAL SLUDGE

☐ 49. RSGB-01	☐ 50. RSSR-01	☐ 51. RSGR-01	☐ 52. RSRB-01	☐ 53. RSRI-01 (EP Toxicity-Metals only + RSRR-01)
☐ 54. RSRO-01	☐ 55. RSSB-01	☐ 56. RSRR-01	☐ 57. RSRR-02	☐ 58. Other _____

COLLECTED BY:**TELEPHONE NUMBER:****REGION NO:****CONTRACT LAB:****COUNTY:****SAMPLING DATE:****MILITARY TIME:****SAMPLE MATRIX:**

- ☐ Air ☐ Soil/Sediment ☐ Groundwater ☐ Surface Water ☐ Wastewater ☐ Other (Specify) _____

CASE NUMBER**SDG NUMBER****SAMPLE NUMBER****CHECK FOR MS/MD****TYPE OF SAMPLE:**

- ☐ This Sample ☐ Composite ☐ Term _____ hrs

☒ Check if there will be more samples with this SDG sent in this calendar week

Report via Category B, unless checked ☐

SAMPLING POINT:

Check if field duplicate ☐

Outfall Number _____

Check if sampling is part of inspection ☐

SPDES NUMBER/REGISTRY NUMBER _____

FLOW _____

GPD
MGD

A 0016

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

CONTRACT LAB SAMPLE INFORMATION SHEET

Print legibly

Part 3

CAUTION (check if applicable)

- ☐ Lab Personnel are expected to use caution when handling DEC samples, however, please use special precautions when handling this sample since it is believed to contain significant concentrations of hazardous and/or toxic material(s).

COPY	
ORIGINAL LOCATED:	
BOUND CSF OF CASE: RA096	SDG 0121
INTS	DATE 2-10-97

Place QA Label Here

CHECK THE BOX PRECEDING THE REQUESTED ANALYSIS**PROPERTY POLLUTANTS (Water Part 136)—SPDES**

☒ 1. PP Metals	☐ 3. Volatiles—(USEPA 824 GC/MS)	☐ 5. Pesticides/PCB's (USEPA 808-GC)
☐ 2. Base/Neutral (USEPA 825-GC/MS)	☐ 4. Cyanide	☐ 6. BOD
☐ 7. Halogenated Volatiles (USEPA 801-GC)	☐ 8. Aromatic Volatiles (USEPA 802-GC)	☐ 12. TSS
☐ 9. Total Hardness	☐ 11. COD	☐ 13. Suspended Solids
☐ 10. Total Solids	☐ 14. TKN	☐ 14.1. Ammonia Nitrogen
☐ 15. Nitrate/Nitrite	☐ 17. Total Phosphorus	☐ 21. Total Phosphate
☐ 16. Oil/Grease	☐ 20. TOC	☐ 22. Total Dissolved Solids—membrane method
☐ 22. Other _____	☐ 59. PCB's at 0.065 ug/L	☐ 60. Total Solids
	☐ 62. CBOD	☐ 63. Volatiles (USEPA 824.2 GC/MS)

CONTRACT LABORATORY PROTOCOLS

☐ 23. (ALL)—Water—Includes 24-28	☐ 29. (ALL)—Soil/Sediments—Includes 30-34
☐ 24. Base/Neutral/Acid (B/N/A)—Water—GC/MS (ASP #89-2)	☐ 30. B/N/A—Soil/Sediment—GC/MS (ASP #89-2)
☐ 25. Volatile Organic Analysis VOA—Water—GC/MS (ASP #89-1)	☒ 31. VOA—Soil/Sediments—GC/MS (ASP #89-1)
☐ 26. Pesticides/PCB's—Water—GC (ASP #89-3)	☐ 32. Pesticides/PCB's—Soil/Sediment—GC (ASP #89-3)
☐ 27. Metals—23 in Water	☐ 33. Metals—23 in Soil/Sediment
☐ 28. Cyanide—Water	☐ 34. Cyanide—Soil/Sediment
☐ 35. Dioxin—Water (ASP #89-4)	☐ 37. Dioxin—Soil/Sediment (ASP #89-4)
☐ 35. Other _____	

HAZARDOUS WASTES/RCRA ANALYSIS SW-846

☐ 36. EP Toxicity	☐ 37. EP Toxicity (Metals Only)	☐ 38. Ignitability
☐ 39. Corrosivity	☐ 40. VOA—(USEPA 8240-GC/MS)	☐ 41. BNA—(USEPA 8270-GC/MS)
☐ 42. Pesticides/PCB's (USEPA 8080)	☐ 43. TCLP	☐ 44. TCLP (Metals Only)
☐ 45. Reactivity	☐ 46. Dioxin (USEPA 8280)	☐ 47. Appendix IX
☐ 48. Other _____	☐ 63. Percent Solids	☐ 68. Metals—17 Hazardous

MUNICIPAL SLUDGE

☐ 49. RSGB-01	☐ 50. RSSR-01	☐ 51. RSGR-01	☐ 52. RSRB-01	☐ 53. RSRI-01 (EP Toxicity-Metals only + RSRR-01)
☐ 54. RSRO-01	☐ 55. RSSB-01	☐ 56. RSRR-01	☐ 57. RSRR-02	☐ 58. Other _____

COLLECTED BY:

J & J

TELEPHONE NUMBER:

518-457-1706

REGION NO:

1

CONTRACT LAB:

H/M

COUNTY:

Nassau

SAMPLING DATE:

1/21/97

MILITARY TIME:

1545

SAMPLE MATRIX:

- ☐ Air ☒ Soil/Sediment ☐ Groundwater ☐ Surface Water ☐ Wastewater ☐ Other (Specify) _____

CASE NUMBER

SDG NUMBER

SAMPLE NUMBER

CHECK FOR MS/MD

TYPE OF SAMPLE:

☐ Grab☐ This Sample☐ Composite☐ Term _____ hrs☒ Check if there will be more samples with this SDG sent in this calendar weekReport via Category B, unless checked ☐

SAMPLING POINT:

Check if field duplicate ☐

Outfall Number

Check if sampling is part of inspection ☐

SPDES NUMBER/REGISTRY NUMBER

FLOW

GPD
MGD

A 0017

IV. CHAIN OF CUSTODY DOCUMENTATION

EXTERNAL CHAIN OF CUSTODY

(516) 694-3040

FAX: 516-694-4122

1210

PROJ. NO.	PROJECT NAME	Refrigerator #	SAMPLE CONTAINER DESCRIPTION	TOTAL NO. OF CONTAINERS	ANALYSIS REQUESTED				LAB I.D. NO.		REMARKS
DATE	TIME	MATRIX	FIELD I.D.	VOA	BN	PCB	INORG.				
12/14/10	10:10	soil	RG0201	5-7					9702015	A6SP-01	
12/14/10	10:12	soil	RG0202	12-12							
12/14/10	10:10	soil	RG0203	15-17							
12/14/10	10:15	soil	RG0204	20-22							
12/14/10	10:15	soil	RG0205	25-27							
12/14/10	10:15	soil	RG0206	30-32							
12/14/10	10:15	soil	RG0207	35-37							
12/14/10	10:15	soil	RG0208	40-42							
12/14/10	10:15	soil	RG0209	45-47							
12/14/10	10:15	soil	RG0210	50-52					9702014	A6SP-02	

DELIVERABLES:	AS-70

PROJ. NO.	PROJECT NAME	Refrigerator #	SAMPLE CONTAINER DESCRIPTION	TOTAL NO. OF CONTAINERS	ANALYSIS REQUESTED				LAB I.D. NO.		REMARKS
DATE	TIME	MATRIX	FIELD I.D.	VOA	BN	PCB	INORG.				
12/14/10	10:10	soil	RG0201	5-7					9702015	A6SP-01	
12/14/10	10:12	soil	RG0202	12-12							
12/14/10	10:10	soil	RG0203	15-17							
12/14/10	10:15	soil	RG0204	20-22							
12/14/10	10:15	soil	RG0205	25-27							
12/14/10	10:15	soil	RG0206	30-32							
12/14/10	10:15	soil	RG0207	35-37							
12/14/10	10:15	soil	RG0208	40-42							
12/14/10	10:15	soil	RG0209	45-47							
12/14/10	10:15	soil	RG0210	50-52					9702014	A6SP-02	

DELIVERABLES:	AS-70

PROJ. NO.	PROJECT NAME	Refrigerator #	SAMPLE CONTAINER DESCRIPTION	TOTAL NO. OF CONTAINERS	ANALYSIS REQUESTED				LAB I.D. NO.		REMARKS
DATE	TIME	MATRIX	FIELD I.D.	VOA	BN	PCB	INORG.				
12/14/10	10:10	soil	RG0201	5-7					9702015	A6SP-01	
12/14/10	10:12	soil	RG0202	12-12							
12/14/10	10:10	soil	RG0203	15-17							
12/14/10	10:15	soil	RG0204	20-22							
12/14/10	10:15	soil	RG0205	25-27							
12/14/10	10:15	soil	RG0206	30-32							
12/14/10	10:15	soil	RG0207	35-37							
12/14/10	10:15	soil	RG0208	40-42							
12/14/10	10:15	soil	RG0209	45-47							
12/14/10	10:15	soil	RG0210	50-52					9702014	A6SP-02	

DELIVERABLES:	AS-70

PROJ. NO.	PROJECT NAME	Refrigerator #	SAMPLE CONTAINER DESCRIPTION	TOTAL NO. OF CONTAINERS	ANALYSIS REQUESTED				LAB I.D. NO.		REMARKS
DATE	TIME	MATRIX	FIELD I.D.	VOA	BN	PCB	INORG.				
12/14/10	10:10	soil	RG0201	5-7					9702015	A6SP-01	
12/14/10	10:12	soil	RG0202	12-12							
12/14/10	10:10	soil	RG0203	15-17							

ORIGINAL COPY

INTERNAL CHAIN OF CUSTODY

CLIENT: NDEC ^{TAJ 1-24} DELIVERABLES: AS 70 ^{AC 70} TURN AROUND TIME StandSDG #: 0121CASE #: RA096MATRIX: SO

pH CHECK Y or N

REMARKS:

RECEIVED BY: TAJSIGNATURE BeaDATE 1-23-97 TIME: 10:25

CLIENT ID.	H2M LAB #	DATE COLLECTED	BOTTLE TYPE	# OF BOTTLES	TESTS REQUESTED
1 TAJ 1-23-97 2 B60201	9702015	1-21-97	A	1	PUTCL TS
3 B60202	016				
4 B60203	017				
5 B60204	018				
6 B60205	019				
7 B60206	020				
8 B60207	021				
9 B60208	022				
10 B60209	023				
11 B60210	024				
12					
13					
14					
15					
16					
17					
18					
19					
20 TAJ 1-23-97					

COPY
ORIGINAL LOCATED:

BOUND INTY CCC # 115

NTS 2-10-97

P 0013

A 0020

A 0021

V. ANALYTICAL DATA PACKAGES:

A. VOLATILES

H2M LABS, INC.

RA096

0121

VOLATILE ORGANICS

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- I. QC SUMMARY
- II. SAMPLE DATA PACKAGE
- III. STANDARDS DATA PACKAGE
- IV. RAW QC DATA PACKAGE
- V. DOCUMENTATION

H2M LABS, INC.

I. QC SUMMARY FOR VOLATILE ORGANICS

- A. SYSTEM MONITORING COMPOUND RECOVERY FORM
- B. MSB FORM
- C. MS/MSD FORM
- D. METHOD BLANK FORM
- E. GC/MS TUNING FORM
- F. INTERNAL STANDARD AREA AND RT SUMMARY
- G. INSTRUMENT DETECTION LIMITS

2B
SOIL VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: H2M LABS INC. Contract: C003180
Lab Code: 10478 Case No.: RA096 SAS No.: _____ SDG No.: 0121
Level: (low/med) LOW

	EPA SAMPLE NO.	SMC1 (DCE) #	SMC2 (TOL) #	SMC3 (BFB) #	TOT OUT
01	VBLK01	105	98	99	0
02	MSB24	108	97	101	0
03	B60201	106	97	102	0
04	B60201MS	111	98	104	0
05	B60201MSD	110	97	101	0
06	B60202	110	97	105	0
07	B60203	111	98	104	0
08	B60204	110	97	103	0
09	B60206	107	99	99	0
10	B60207	111	95	101	0
11	B60208	116	95	104	0
12	B60209	112	95	103	0
13	B60210	112	96	103	0
14	VBLK02	105	101	100	0
15	B60205	106	101	102	0

SMC1 (DCE)	=	1,2-Dichloroethane-d4	QC LIMITS (70-121)
SMC2 (TOL)	=	Toluene-d8	(84-138)
SMC3 (BFB)	=	Bromofluorobenzene	(59-113)

Column to be used to flag recovery values
* Values outside of contract required QC limits
D System Monitoring Compound diluted out

3A
SOIL MATRIX SPIKE BLANK RECOVERY

Lab Name: H2M LABS, INC

Contract: NYSDEC

Lab Code: 10478

Case No.: RA096

SDG No.: ##

Matrix Spike - EPA Sample No.: MSB2

SAS No.:

COMPOUND	SPIKE ADDED UG/KG	MS CONCENTRATION UG/KG	MS % REC #	QC. LIMITS REC.
1,1-Dichloroethene	50	42	84	(61-145)
Trichloroethene	50	45	90	(71-120)
Benzene	50	45	90	(76-127)
Toluene	50	43	86	(76-125)
Chlorobenzene	50	44	88	(75-130)

Column to be used to flag recovery values with an asterisk

* Values outside of QC limits

Spike Recovery: 0 out of 10 outside limits

Comments: _____

3/90

V 000.1

3B
SOIL VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: H2M LABS INC. Contract: C003180
 Lab Code: 10478 Case No.: RA096 SAS No.: _____ SDG No.: 0121
 Matrix Spike - EPA Sample No.: B60201 Level: (low/med) LOW

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC #	QC LIMITS REC.
1,1-Dichloroethene	52	0.0	44	85	59 - 172
Trichloroethene	52	0.0	47	90	62 - 137
Benzene	52	0.0	47	90	66 - 142
Toluene	52	0.0	46	88	59 - 139
Chlorobenzene	52	0.0	46	88	60 - 133

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC #	% RPD #	QC LIMITS RPD	REC.
1,1-Dichloroethene	52	40	77	10	22	59 - 172
Trichloroethene	52	44	85	6	24	62 - 137
Benzene	52	43	83	8	21	66 - 142
Toluene	52	42	81	8	21	59 - 139
Chlorobenzene	52	43	83	6	21	60 - 133

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

* Values outside of QC limits

RPD: 0 out of 5 outside limits

Spike Recovery: 0 out of 10 outside limits

COMMENTS: _____

V 0005

4A
VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBK01

Lab Name: H2M LABS INC. Contract: C003180
Lab Code: 10478 Case No.: RA096 SAS No.: _____ SDG No.: 0121
Lab File ID: P05462.D Lab Sample ID: VBK24
Date Analyzed: 01/24/97 Time Analyzed: 10:59
GC Column: RTX502 ID: 0.53 (mm) Heated Purge: (Y/N) Y
Instrument ID: H5970-3

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	MSB24	MSB24	P05463.D	11:30
02	B60201	9702015	P05464.D	12:07
03	B60201MS	9702015MS	P05465.D	12:38
04	B60201MSD	9702015MSD	P05466.D	13:09
05	B60202	9702016	P05467.D	13:40
06	B60203	9702017	P05468.D	14:10
07	B60204	9702018	P05469.D	14:41
08	B60206	9702020	P05471.D	15:43
09	B60207	9702021	P05472.D	16:14
10	B60208	9702022	P05473.D	16:45
11	B60209	9702023	P05474.D	17:16
12	B60210	9702024	P05475.D	17:47

COMMENTS:

V 0006

4A
VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLK02

Lab Name: H2M LABS INC. Contract: C003180
Lab Code: 10478 Case No.: RA096 SAS No.: _____ SDG No.: 0121
Lab File ID: P05559.D Lab Sample ID: VBLK5
Date Analyzed: 02/05/97 Time Analyzed: 13:36
GC Column: RTX502 ID: 0.53 (mm) Heated Purge: (Y/N) Y
Instrument ID: H5970-3

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	B60205	9702019	P05560.D	14:15

COMMENTS:

V 0007

5A
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: H2M LABS INC. Contract: C003180
 Lab Code: 10478 Case No.: RA096 SAS No.: SDG No.: C121
 Lab File ID: P05319.D BFB Injection Date: 12/31/96
 Instrument ID: H5970-3 BFB Injection Time: 09:05
 GC Column: RTX502.2 ID: 0.53 (mm) Heated Purge: (Y/N) Y

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	23.9
75	30.0 - 60.0% of mass 95	52.9
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	7.1
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	50.0 - 120.0% of mass 95	69.2
175	5.0 - 9.0% of mass 174	5.5 (8.0)1
176	95.0 - 101.0% of mass 174	68.0 (98.2)1
177	5.0 - 9.0% of mass 176	4.7 (6.9)2

1-Value is % mass 174

2-Value is % mass 176

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD010	VSTD010	P05325.D	12/31/96	13:23
02	VSTD020	VSTD020	P05326.D	12/31/96	13:54
03	VSTD050	VSTD050	P05327.D	12/31/96	14:25
04	VSTD100	VSTD100	P05328.D	12/31/96	14:56
05	VSTD200	VSTD200	P05329.D	12/31/96	15:27

V 0008

5A
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: H2M LABS INC. Contract: C003180
 Lab Code: 10478 Case No.: RA096 SAS No.: SDG No.: 0121
 Lab File ID: P05460.D BFB Injection Date: 01/24/97
 Instrument ID: H5970-3 BFB Injection Time: 09:11
 GC Column: RTX502.2 ID: 0.53 (mm) Heated Purge: (Y/N) Y

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	55.6
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	7.6
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	50.0 - 120.0% of mass 95	68.3
175	5.0 - 9.0% of mass 174	5.0 (7.4)1
176	95.0 - 101.0% of mass 174	68.5 (100.3)1
177	5.0 - 9.0% of mass 176	4.7 (6.8)2

1-Value is % mass 174

2-Value is % mass 176

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD050	VSTD050	P05461.D	01/24/97	10:19
02	VBLK01	VBLK24	P05462.D	01/24/97	10:59
03	MSB24	MSB24	P05463.D	01/24/97	11:30
04	B60201	9702015	P05464.D	01/24/97	12:07
05	B60201MS	9702015MS	P05465.D	01/24/97	12:38
06	B60201MSD	9702015MSD	P05466.D	01/24/97	13:09
07	B60202	9702016	P05467.D	01/24/97	13:40
08	B60203	9702017	P05468.D	01/24/97	14:10
09	B60204	9702018	P05469.D	01/24/97	14:41
10	B60206	9702020	P05471.D	01/24/97	15:43
11	B60207	9702021	P05472.D	01/24/97	16:14
12	B60208	9702022	P05473.D	01/24/97	16:45
13	B60209	9702023	P05474.D	01/24/97	17:16
14	B60210	9702024	P05475.D	01/24/97	17:47

V 0003

5A
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: H2M LABS INC. Contract: C003180
 Lab Code: 10478 Case No.: RA096 SAS No.: SDG No.: 0121
 Lab File ID: P05557.D BFB Injection Date: 02/05/97
 Instrument ID: H5970-3 BFB Injection Time: 10:17
 GC Column: RTX502.2 ID: 0.53 (mm) Heated Purge: (Y/N) Y

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	26.0
75	30.0 - 60.0% of mass 95	56.9
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	7.2
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	50.0 - 120.0% of mass 95	69.5
175	5.0 - 9.0% of mass 174	4.5 (6.4)1
176	95.0 - 101.0% of mass 174	69.9 (100.6)1
177	5.0 - 9.0% of mass 176	4.4 (6.3)2

1-Value is % mass 174

2-Value is % mass 176

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD050	VSTD050	P05558.D	02/05/97	12:13
02	VBLK02	VBLK5	P05559.D	02/05/97	13:36
03	B60205	9702019	P05560.D	02/05/97	14:15

V COLO

8A
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: H2M LABS INC. Contract: C003180
 Lab Code: 10478 Case No.: RA096 SAS No.: _____ SDG No.: 0121
 Lab File ID (Standard): P05461.D Date Analyzed: 01/24/97
 Instrument ID: H5970-3 Time Analyzed: 10:19
 GC Column: RTX502.2 ID: 0.53 (mm) Heated Purge: (Y/N) Y

	IS1(BCM) AREA #	RT #	IS2(DFB) AREA #	RT #	IS3(CBZ) AREA #	RT #
12 HOUR STD	109635	11.27	392211	12.68	313283	17.96
UPPER LIMIT	219270	10.77	784422	12.18	626566	17.46
LOWER LIMIT	54818	11.77	196106	13.18	156642	18.46
EPA SAMPLE NO.						
01 VBLK01	115408	11.27	419490	12.69	342222	17.96
02 MSB24	104224	11.26	361170	12.66	298071	17.94
03 B60201	104264	11.25	377690	12.66	306665	17.95
04 B60201MS	111163	11.23	398281	12.65	323361	17.94
05 B60201MSD	110890	11.23	389106	12.64	320404	17.92
06 B60202	112925	11.22	384069	12.63	313308	17.93
07 B60203	97905	11.23	333988	12.64	275780	17.92
08 B60204	105098	11.23	365332	12.65	300127	17.94
09 B60206	91235	11.23	339060	12.64	273376	17.93
10 B60207	95043	11.23	327037	12.64	275102	17.93
11 B60208	79254	11.25	281408	12.66	238511	17.95
12 B60209	93603	11.24	324434	12.65	267940	17.94
13 B60210	101427	11.24	339721	12.64	281026	17.94

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

AREA UPPER LIMIT = +100% of internal standard area
 AREA LOWER LIMIT = - 50% of internal standard area
 RT UPPER LIMIT = +0.50 minutes of internal standard RT
 RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column to be used to flag values outside QC limit with an asterisk.

* Values outside of contract required QC limits

V 0011

8A
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: H2M LABS INC. Contract: C003180
 Lab Code: 10478 Case No.: RA096 SAS No.: _____ SDG No.: 0121
 Lab File ID (Standard): P05558.D Date Analyzed: 02/05/97
 Instrument ID: H5970-3 Time Analyzed: 12:13
 GC Column: RTX502.2 ID: 0.53 (mm) Heated Purge: (Y/N) Y

	IS1(BCM)		IS2(DFB)		IS3(CBZ)	
	AREA #	RT #	AREA #	RT #	AREA #	RT #
12 HOUR STD	86431	11.08	323663	12.49	276170	17.76
UPPER LIMIT	172862	10.58	647326	11.99	552340	17.26
LOWER LIMIT	43216	11.58	161832	12.99	138085	18.26
EPA SAMPLE NO.						
01 VBLK02	86247	11.08	320778	12.50	275417	17.76
02 B60205	92704	11.09	341281	12.49	295649	17.76

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

AREA UPPER LIMIT = +100% of internal standard area
 AREA LOWER LIMIT = - 50% of internal standard area
 RT UPPER LIMIT = +0.50 minutes of internal standard RT
 RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column to be used to flag values outside QC limit with an asterisk.
 * Values outside of contract required QC limits

V 0012

VOLATILES INSTRUMENT DETECTION LIMIT STUDY

SPIKE AMOUNT: 5 ppb

INSTRUMENT ID: H5970-3

DATE ANALYZED: 09/06/96

COMPOUND	P04422.D	P04423.D	P04424.D	P04425.D	P04426.D	P04427.D	P04428.D	P04429.D	S	IDL (ng)	CRDL
Chloromethane	8.37	7.03	7.29	6.80	7.50	6.14	5.90	5.97	0.86	13	50 ng
Vinyl Chloride	6.50	5.35	5.74	5.12	5.71	4.88	4.79	4.54	0.64	10	50 ng
Bromomethane	5.56	4.79	5.18	4.81	4.77	4.48	3.97	4.01	0.54	8	50 ng
Chloroethane	6.52	5.46	5.23	5.45	5.67	5.62	4.76	4.67	0.58	9	50 ng
1,1-Dichloroethene	4.94	4.22	4.51	4.38	4.28	3.99	3.56	3.64	0.45	7	50 ng
Carbon Disulfide	5.23	4.84	4.94	4.87	4.90	4.62	4.56	4.12	0.33	5	50 ng
Acetone		2.45	2.57	3.47	2.41	2.10	2.17	3.23	0.52	8	50 ng
Methylene Chloride	6.47	6.03	6.03	6.04	6.09	5.92	5.17	5.77	0.37	6	50 ng
trans-1,2-Dichloroethene	4.41	4.18	4.30	4.05	4.05	3.88	3.93	3.58	0.26	4	50 ng
cis-1,2-Dichloroethene	4.82	4.16	4.43	4.31	4.20	4.07	3.63	3.62	0.40	6	50 ng
1,2-Dichloroethene (total)	9.80	8.83	9.14	8.87	9.02	8.37	7.98	7.67	0.68	10	50 ng
1,1-Dichloroethane	4.94	4.41	4.69	4.59	4.35	4.20	4.04	3.71	0.39	6	50 ng
Chloroform	4.81	4.31	4.63	4.57	4.46	4.35	3.99	3.82	0.33	5	50 ng
1,2-Dichloroethane	4.11	4.06	4.11	4.36	3.84	4.09	3.86	3.63	0.22	3	50 ng
2-Butanone	3.68	2.15	1.93	1.00	2.16	2.10	1.95	1.52	0.76	11	50 ng
1,1,1-Trichloroethane		4.31	4.60	4.83	4.52	4.37	3.98	3.74	0.37	6	50 ng
Carbon Tetrachloride	4.69	4.34	4.59	4.50	4.52	4.40	3.98	3.71	0.33	5	50 ng
Trichloroethene	4.95	4.45	4.69	4.54	4.42	5.00	3.94	3.69	0.46	7	50 ng
Benzene	5.17	4.54	4.76	4.76	4.32	4.46	3.88	3.90	0.44	7	50 ng
1,2-Dichloropropane	4.93	4.72	4.55	4.87	4.39	4.63	4.32	3.93	0.33	5	50 ng
Bromodichloromethane	4.21	3.92	4.20	4.39	3.83	4.14	3.88	3.59	0.26	4	50 ng
cis-1,3-Dichloropropene	4.22	3.86	3.92	3.98	3.42	3.77	3.62	3.30	0.30	5	50 ng
trans-1,3-Dichloropropene	3.70	3.61	3.49	3.59	3.17	3.58	3.30	3.12	0.22	3	50 ng
1,1,2-Trichloroethane	3.90	3.87	3.79	4.00	3.56	3.85	3.77	3.31	0.22	3	50 ng
Dibromochloromethane	3.74	3.64	3.87	3.98	3.45	3.73	3.52	3.14	0.27	4	50 ng
Bromoform	3.68	3.70	3.85	4.17	3.48	3.85	3.69	3.00	0.34	5	50 ng
4-Methyl-2-Pentanone	2.79	2.76	2.65	2.84	1.99	2.75	2.53	2.42	0.28	4	50 ng
Toluene	4.98	4.31	4.53	4.32	4.15	4.14	4.06	3.74	0.37	6	50 ng
Tetrachloroethene	6.57	4.94	5.36	4.99	4.70	4.73	4.79	4.19	0.70	11	50 ng
2-Hexanone	1.66	1.34	1.66	1.61	1.62	1.82	1.13	1.72	0.23	3	50 ng
Chlorobenzene	4.83	4.32	4.51	4.51	4.14	4.21	4.30	3.64	0.35	5	50 ng
Ethylbenzene	4.84	4.38	4.59	4.44	4.40	4.20	4.01	3.59	0.38	6	50 ng
Xylene (total)	4.54	4.22	4.29	4.23	4.08	3.83	3.98	3.19	0.41	6	50 ng
Styrene	4.41	3.89	4.15	4.12	3.78	3.71	3.64	3.12	0.39	6	50 ng
m/p-Xylene	11.28	9.83	10.36	10.04	9.86	9.39	9.36	7.68	1.03	15	50 ng
1,1,2,2-Tetrachloroethane	3.78	3.96	3.78	4.21	3.41	1.75	3.98	2.93	0.80	12	50 ng

II. SAMPLE DATA PACKAGE FOR VOLATILE ORGANICS

- A. REPORTS
- B. RAW DATA

H2M LABS, INC.

QUALIFIERS FOR REPORTING ORGANICS DATA

Value - If the result is a value greater than or equal to the quantification limit, report the value.

U - Indicates compound was analyzed for but not detected. The sample quantitation limit must be corrected for dilution and for percent moisture. For example, 10U for phenol in water if the sample final volume is the protocol-specified final volume. If a 1 to 10 dilution of extract is necessary, the reported limit is 100 U. For a soil sample, the value must also be adjusted for percent moisture. For example, if the sample had 24% moisture and a 1 to 10 dilution factor, the sample quantitation limit for phenol (330 U) would be corrected to

$$\frac{(330 \text{ U})}{D} \times df \text{ where } D = \frac{100 - \% \text{ moisture}}{100}$$

and df = dilution factor

For example, at 24% moisture, $D = \frac{100 - 24}{100} = 0.76$

$$\frac{(330 \text{ U})}{0.76} \times 10 = 4300 \text{ U rounded to the appropriate number of significant figures}$$

For semivolatile soil samples, the extract must be concentrated to 0.5 mL, and the sensitivity of the analysis is not compromised by the cleanup procedures. Similarly, pesticide samples subjected to GPC are concentrated to 5.0 mL. Therefore, the CRQL values in Exhibit C will apply to all samples, regardless of cleanup. However, if a sample extract cannot be concentrated to the protocol-specified volume (see Exhibit C), this fact must be accounted for in reporting the sample quantitation limit.

J - Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicates the presence of a compound that meets the identification criteria but the result is less than the specified quantification limit but greater than zero. (e.g.: If limit of quantification is 10 ug/l and a concentration of 3 ug/l is calculated, report as 3J.) The sample quantitation limit must be adjusted for dilution as discussed for the U flag.

N - Indicates presumptive evidence of a compound. This flag is only used for tentatively identified compounds, where the identification is based on a mass spectral library search. It is applied to all TIC results. For generic characterization of a TIC, such as chlorinated hydrocarbon, the N code is not used.

P - This flag is used for a pesticide/Aroclor target analyte when there is greater than 25% difference for detected concentrations between the two GC columns (see Form X). The lower of the two values is reported on Form I and flagged with a "P".

C - This flag applies to pesticide results where the identification has been confirmed by GC/MS. If GC/MS confirmation was attempted but was unsuccessful, do not apply this flag, instead use a Laboratory-defined flag, discussed below.

H2M LABS, INC.

B - This flag is used when the analyte is found in the associated blank as well as in the sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action. This flag must be used for a TIC as well as for a positively identified target compound.

E - This flag identifies compounds whose concentrations exceed the calibration range of the GC/MS instrument for that specific analysis. If one or more compounds have a response greater than full scale, except as noted in Exhibit D, the sample or extract must be diluted and re-analyzed according to the specifications in Exhibit D. All such compounds with a response greater than full scale should have the concentration flagged with an "E" on the Form I for the original analysis. If the dilution of the extract causes any compounds identified in the first analysis to be below the calibration range in the second analysis, then the results of both analyses shall be reported on separate copies of Form I. The Form I for the diluted sample shall have the "DL" suffix appended to the sample number. NOTE: For total xylenes, where three isomers are quantified as two peaks, the calibration range of each peak should be considered separately, e.g., a diluted analysis is not required for total xylenes unless the concentration of the peak representing the single isomer exceeds 200 ug/l or the peak representing the two coeluting isomers on that GC column exceeds 400 ug/l. Similarly, if the two 1,2-Dichloroethene isomers coelute, a diluted analysis is not required unless the concentration exceeds 400 ug/l.

D - This flag identifies all compounds identified in an analysis at a secondary dilution factor. If a sample or extract is re-analyzed at a higher dilution factor, as in the "E" flag above, the "DL" suffix is appended to the sample number on the Form I for the diluted sample, and all concentration values reported on that Form I are flagged with the "D" flag. This flag alerts data users that any discrepancies between the concentrations reported may be due to dilution of the sample or extract.

A - This flag indicates that a TIC is a suspected aldol-condensation product.

X - Other specific flags may be required to properly define the results. If used, they must be fully described, and such description attached to the Sample Data Summary Package and the SDG narrative. Begin by using "X". If more than one flag is required, use "Y" and "Z" as needed. If more than five qualifiers are required for a sample result, use the "X" flag to combine several flags as needed. For instance, the "X" flag might combine "A", "B", and "D" flags for some samples. The Laboratory defined flags limited to the letters "X", "Y" and "Z".

The combination of flags "BU" or "UB" is expressly prohibited. Blank contaminants are flagged "B" only when they are detected in the sample.

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B60201

Lab Name: H2M LABS INC. Contract: C003180
 Lab Code: 10478 Case No.: RA096 SAS No.: _____ SDG No.: 0121
 Matrix: (soil/water) SOIL Lab Sample ID: 9702015
 Sample wt/vol: 5.0 (g/ml) G Lab File ID: P05464.D
 Level: (low/med) LOW Date Received: 01/23/97
 % Moisture: not dec. 4.4 Date Analyzed: 01/24/97
 GC Column: RTX502 ID: 0.53 (mm) Dilution Factor: 1.0
 Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

A6SP-01
(5-7')

CONCENTRATION UNITS:

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

V 0017

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

B60201

Lab Name: H2M LABS INC.

Contract: C003180

Lab Code: 10478

Case No.: RA096

SAS No.:

SDG No.: 0121

Matrix: (soil/water) SOIL

Lab Sample ID: 9702015

Sample wt/vol: 5.0 (g/ml) G

Lab File ID: P05464.D

Level: (low/med) LOW

Date Received: 01/23/97

% Moisture: not dec. 4.4

Date Analyzed: 01/24/97

GC Column: RTX502. ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: 1 (uL)

Soil Aliquot Volume: 1 (uL)

CONCENTRATION UNITS:

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

Number TICs found: 1

Handwritten:
P05464.D
2/10/97

CAS NO.	COMPOUND	RT	EST. CONC.	Q
1. 000556-67-2	Cyclotetrasiloxane, octamethyl-	18.71	6	JN

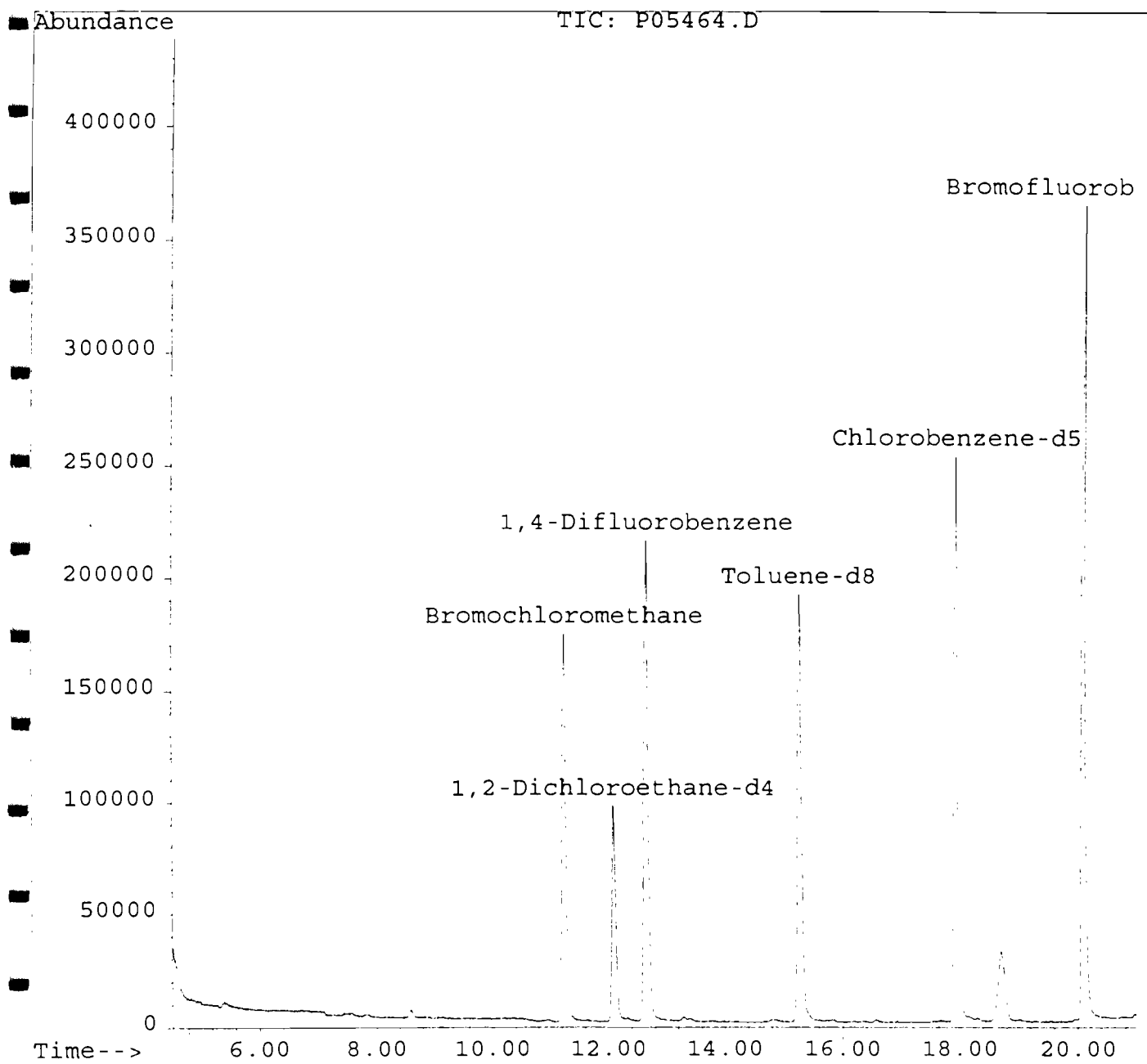
V 0018

Quantitation Report

Data File : C:\HPCHEM\1\DATA\P05464.D
 Acq On : 24 Jan 97 12:07 pm
 Sample : 9702015
 Misc : B60201 H5970-3 1/24/97 5.0G
 Quant Time: Feb 5 10:55 1997

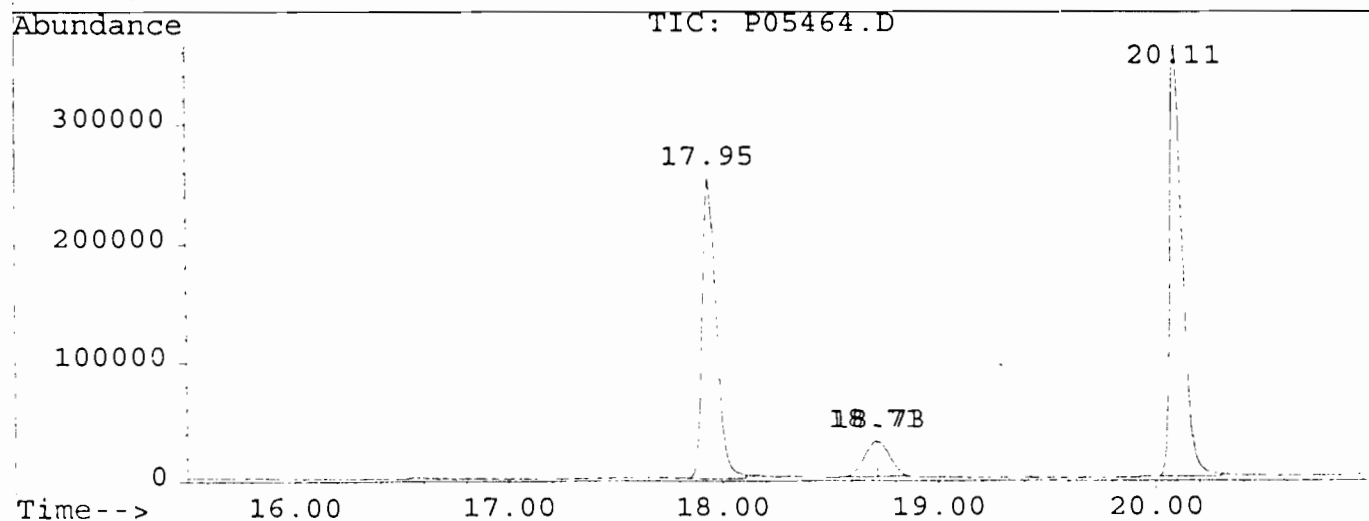
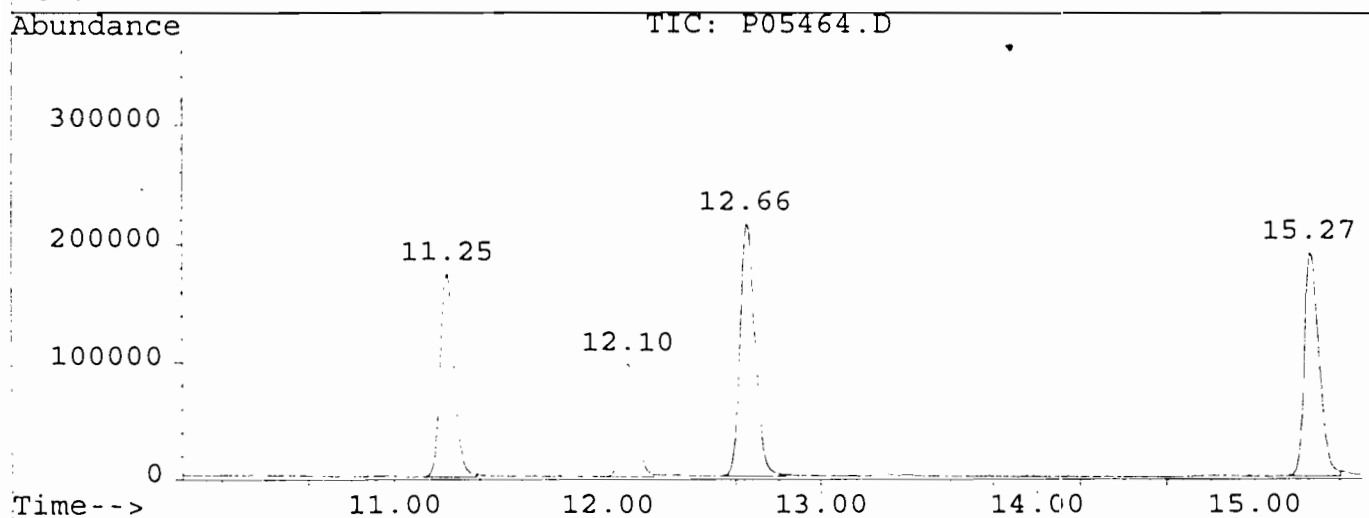
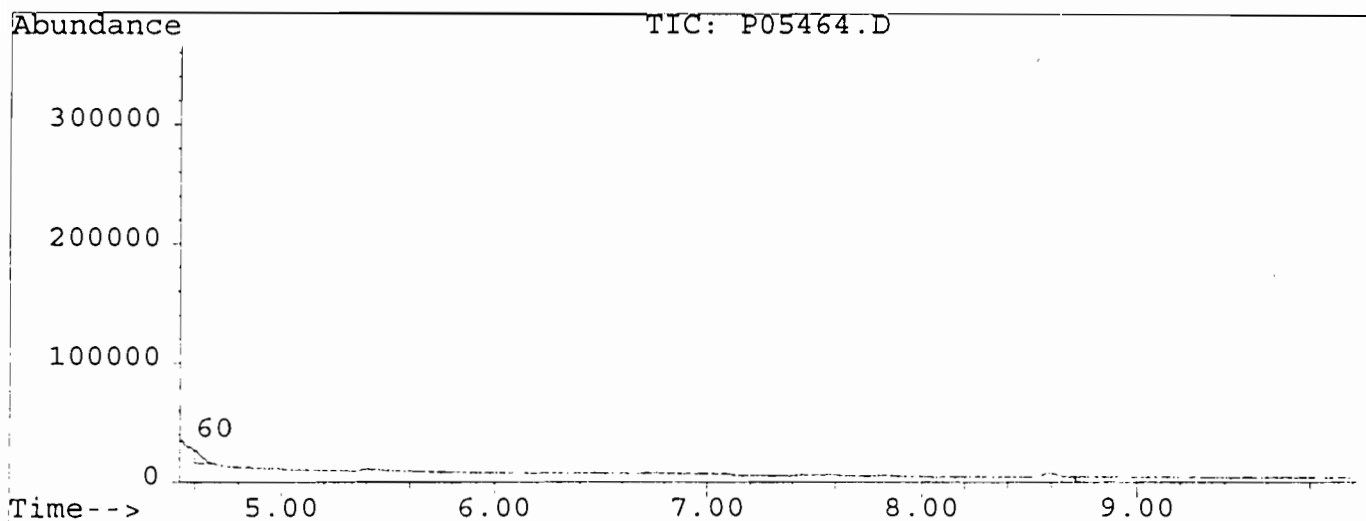
Vial: 4
 Operator: GLENN
 Inst : 5970 - In
 Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\CLPS.M
 Title : VOA CLP WATER METHOD
 Last Update : Wed Feb 05 12:46:55 1997
 Response via : Single Level Calibration



V 0019

File : C:\HPCHEM\1\DATA\P05464.D
Operator : GLENN
Acquired : 24 Jan 97 12:07 using AcqMethod CLPS
Instrument : 5970 - In
Sample Name: 9702015
Misc Info : B60201 H5970-3 1/24/97 5.0G
Vial Number: 4



Quantitation Report

Data File : C:\HPCHEM\1\DATA\P05464.D
Acq On : 24 Jan 97 12:07
Sample : 9702015
Misc : B60201 H5970-3 1/24/97 5.0G
Quant Time: Feb 5 10:55 1997

Vial: 4
Operator: GLENN
Inst : 5970 - In
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\CLPS.M
Title : VOA CLP WATER METHOD
Last Update : Fri Jan 24 10:47:18 1997
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\P05461.D

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	11.25	128	104264	50.00	UG/L	-0.02
21) 1,4-Difluorobenzene	12.66	114	377690	50.00	UG/L	-0.03
33) Chlorobenzene-d5	17.95	117	306665	50.00	UG/L	-0.01

System Monitoring Compounds						%Recovery
18) 1,2-Dichloroethane-d4	12.10	65	167052	53.17	UG/L	106.34%
34) Toluene-d8	15.27	98	309057	48.60	UG/L	97.21%
43) Bromofluorobenzene	20.11	95	295062	50.80	UG/L	101.60%

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration

P05464.D CLPS.M

Thu Feb 06 10:30:18 1997

MASSPEC1

V 00:1

Page 1

Tentatively Identified Compound (LSC) summary

Operator ID: GLENN Date Acquired: 24 Jan 97 12:07

Data File: C:\HPCHEM\1\DATA\P05464.D

Name: 9702015

Misc: B60201 H5970-3 1/24/97 5.0G

Method: CLPS

Title: VOA CLP WATER METHOD

Library Searched: NBS75K.L

TIC Top Hit name	RT	EstConc	Units	Area	IntStd	ISRT	ISArea	ISConc
Cyclotetrasiloxane,	18.71	5.5	UG/L	121945	ISTD03	17.95	1108458	50.0

■

225

10

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■



2000

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B60202

A6SP-01
(10'-12')

Lab Name: H2M LABS INC. Contract: C003180
 Lab Code: 10478 Case No.: RA096 SAS No.: _____ SDG No.: 0121
 Matrix: (soil/water) SOIL Lab Sample ID: 9702016
 Sample wt/vol: 5.0 (g/ml) G Lab File ID: P05467.D
 Level: (low/med) LOW Date Received: 01/23/97
 % Moisture: not dec. 3.3 Date Analyzed: 01/24/97
 GC Column: RTX502. ID: 0.53 (mm) Dilution Factor: 1.0
 Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

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

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

B60202

Lab Name: H2M LABS INC. Contract: C003180
Lab Code: 10478 Case No.: RA096 SAS No.: _____ SDG No.: 0121
Matrix: (soil/water) SOIL Lab Sample ID: 9702016
Sample wt/vol: 5.0 (g/ml) G Lab File ID: P05467.D
Level: (low/med) LOW Date Received: 01/23/97
% Moisture: not dec. 3.3 Date Analyzed: 01/24/97
GC Column: RTX502 ID: 0.53 (mm) Dilution Factor: 1.0
Soil Extract Volume: 1 (uL) Soil Aliquot Volume: 1 (uL)

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

Number TICs found: 0

CAS NO.	COMPOUND	RT	EST. CONC.	Q

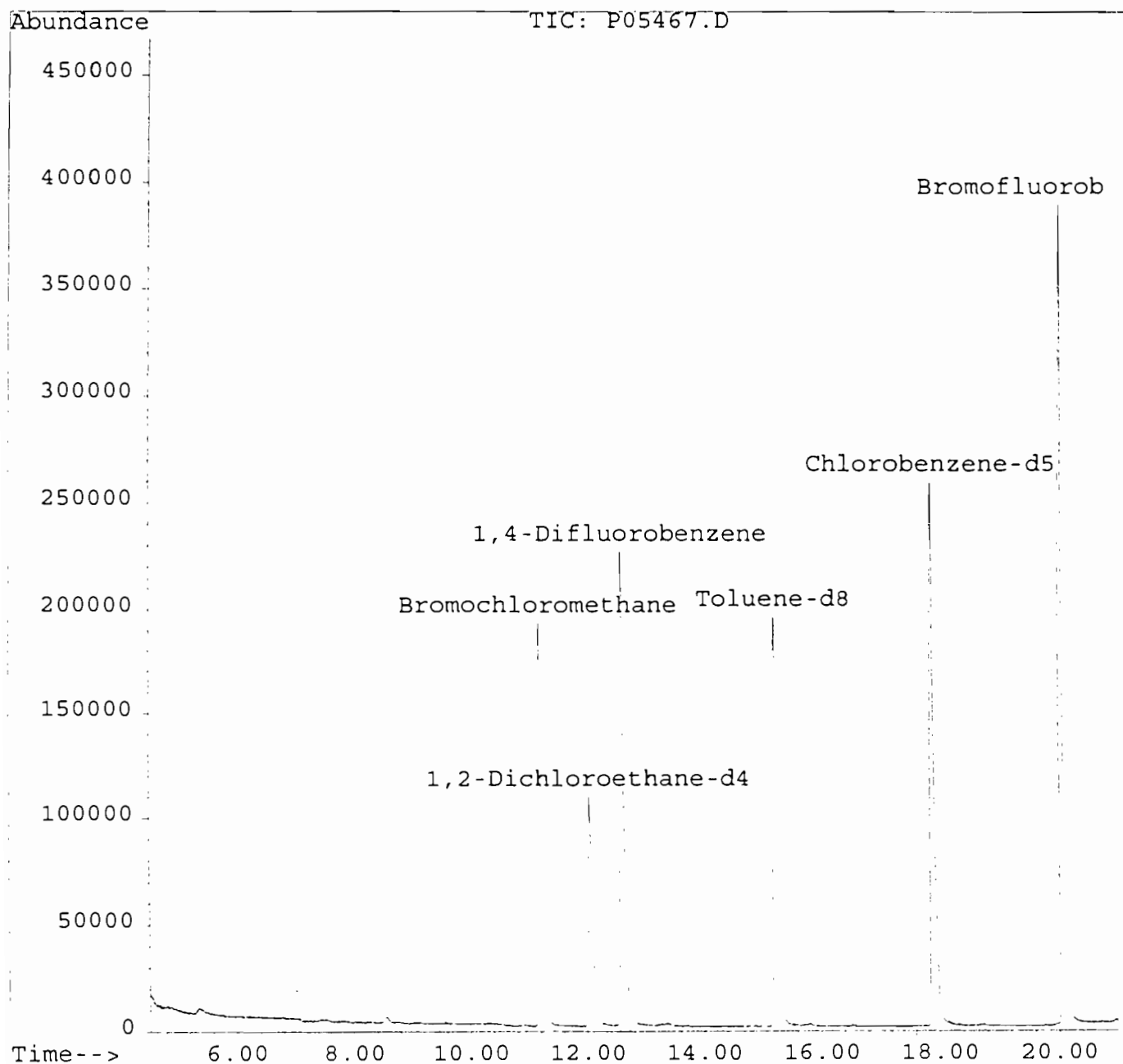
V 60202

Quantitation Report

Data File : C:\HPCHEM\1\DATA\P05467.D
Acq On : 24 Jan 97 1:40 pm
Sample : 9702016
Misc : B60202 H5970-3 1/24/97 5.0G
Quant Time: Feb 5 10:57 1997

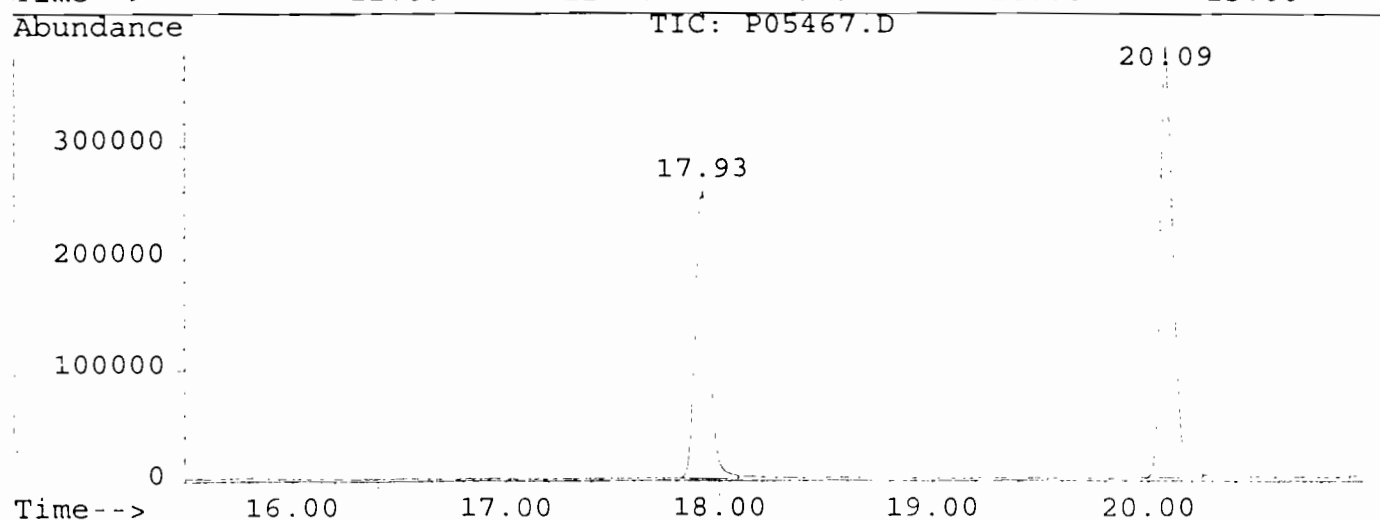
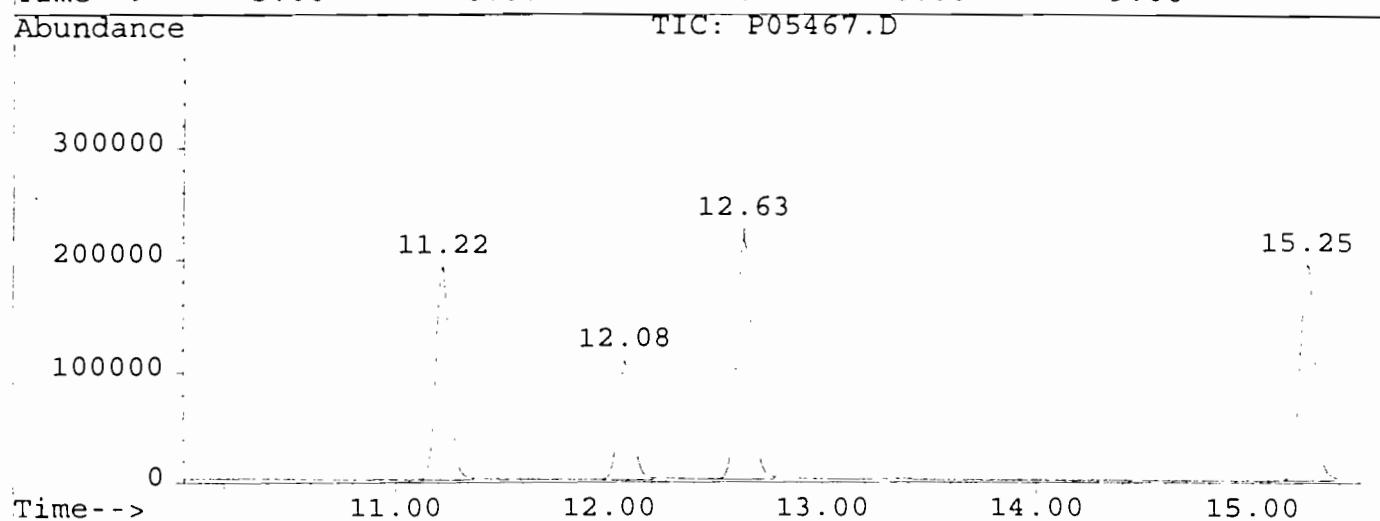
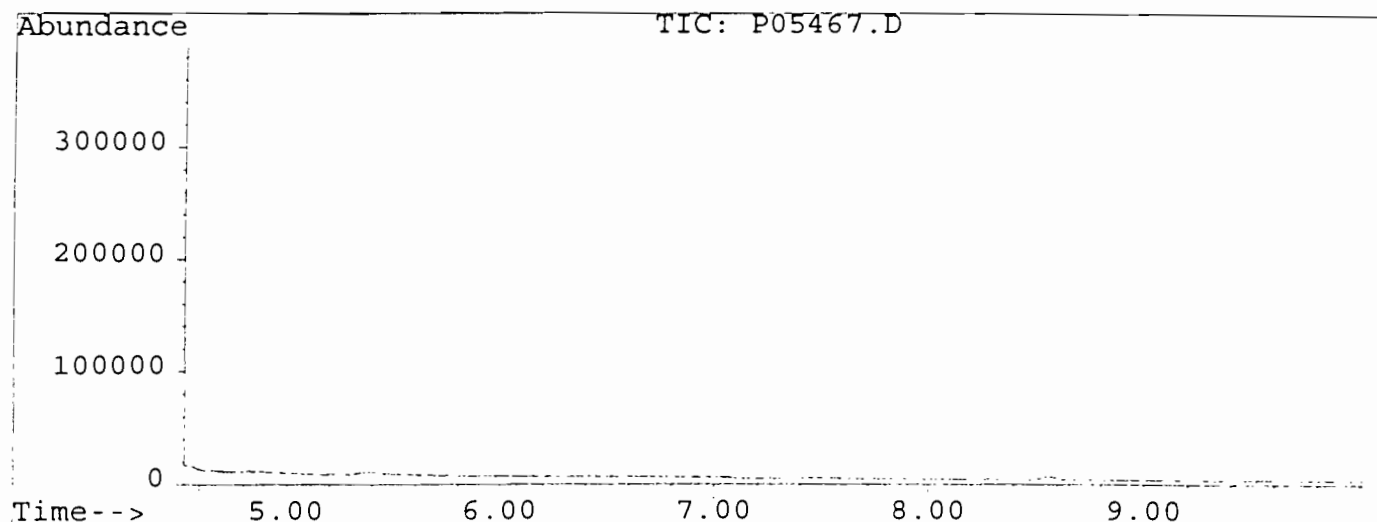
Vial: 7
Operator: GLENN
Inst : 5970 - In
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\CLPS.M
Title : VOA CLP WATER METHOD
Last Update : Wed Feb 05 12:46:55 1997
Response via : Single Level Calibration



V 0026

File : C:\HPCHEM\1\DATA\P05467.D
Operator : GLENN
Acquired : 24 Jan 97 13:40 using AcqMethod CLPS
Instrument : 5970 - In
Sample Name: 9702016
Misc Info : B60202 H5970-3 1/24/97 5.0G
Vial Number: 7



V 0027

Quantitation Report

Data File : C:\HPCHEM\1\DATA\P05467.D
 Acq On : 24 Jan 97 13:40
 Sample : 9702016
 Misc : B60202 H5970-3 1/24/97 5.0G
 Quant Time: Feb 5 10:57 1997

Vial: 7
 Operator: GLENN
 Inst : 5970 - In
 Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\CLPS.M
 Title : VOA CLP WATER METHOD
 Last Update : Fri Jan 24 10:47:18 1997
 Response via : Continuing Cal File: C:\HPCHEM\1\DATA\P05461.D

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	11.22	128	112925	50.00	UG/L	-0.05
21) 1,4-Difluorobenzene	12.63	114	384069	50.00	UG/L	-0.05
33) Chlorobenzene-d5	17.93	117	313308	50.00	UG/L	-0.03

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	%Recovery
18) 1,2-Dichloroethane-d4	12.08	65	187201	55.01	UG/L	110.02%
34) Toluene-d8	15.25	98	315638	48.59	UG/L	97.17%
43) Bromofluorobenzene	20.09	95	311030	52.41	UG/L	104.83%

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration

V 0025

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\P05467.D
Acq On : 24 Jan 97 13:40
Sample : 9702016
Misc : B60202 H5970-3 1/24/97 5.0G

Vial: 7
Operator: GLENN
Inst : 5970 - In
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\CLPS.M
Title : VOA CLP WATER METHOD
Library : NBS75K.L

No Library Search Compounds Detected

V 0023

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B60203

Lab Name: H2M LABS INC.

Contract: C003180

Lab Code: 10478

Case No.: RA096

SAS No.:

SDG No.: 0121

Matrix: (soil/water) SOIL

Lab Sample ID: 9702017

Sample wt/vol: 5.0 (g/ml) G

Lab File ID: P05468.D

Level: (low/med) LOW

Date Received: 01/23/97

% Moisture: not dec. 2.9

Date Analyzed: 01/24/97

GC Column: RTX502. ID: 0.53 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:

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

A65P-01
(15'-17')

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

B60203

Lab Name: H2M LABS INC. Contract: C003180
Lab Code: 10478 Case No.: RA096 SAS No.: _____ SDG No.: 0121
Matrix: (soil/water) SOIL Lab Sample ID: 9702017
Sample wt/vol: 5.0 (g/ml) G Lab File ID: P05468.D
Level: (low/med) LOW Date Received: 01/23/97
% Moisture: not dec. 2.9 Date Analyzed: 01/24/97
GC Column: RTX502 ID: 0.53 (mm) Dilution Factor: 1.0
Soil Extract Volume: 1 (uL) Soil Aliquot Volume: 1 (uL)

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

Number TICs found: 0

CAS NO.	COMPOUND	RT	EST. CONC.	Q

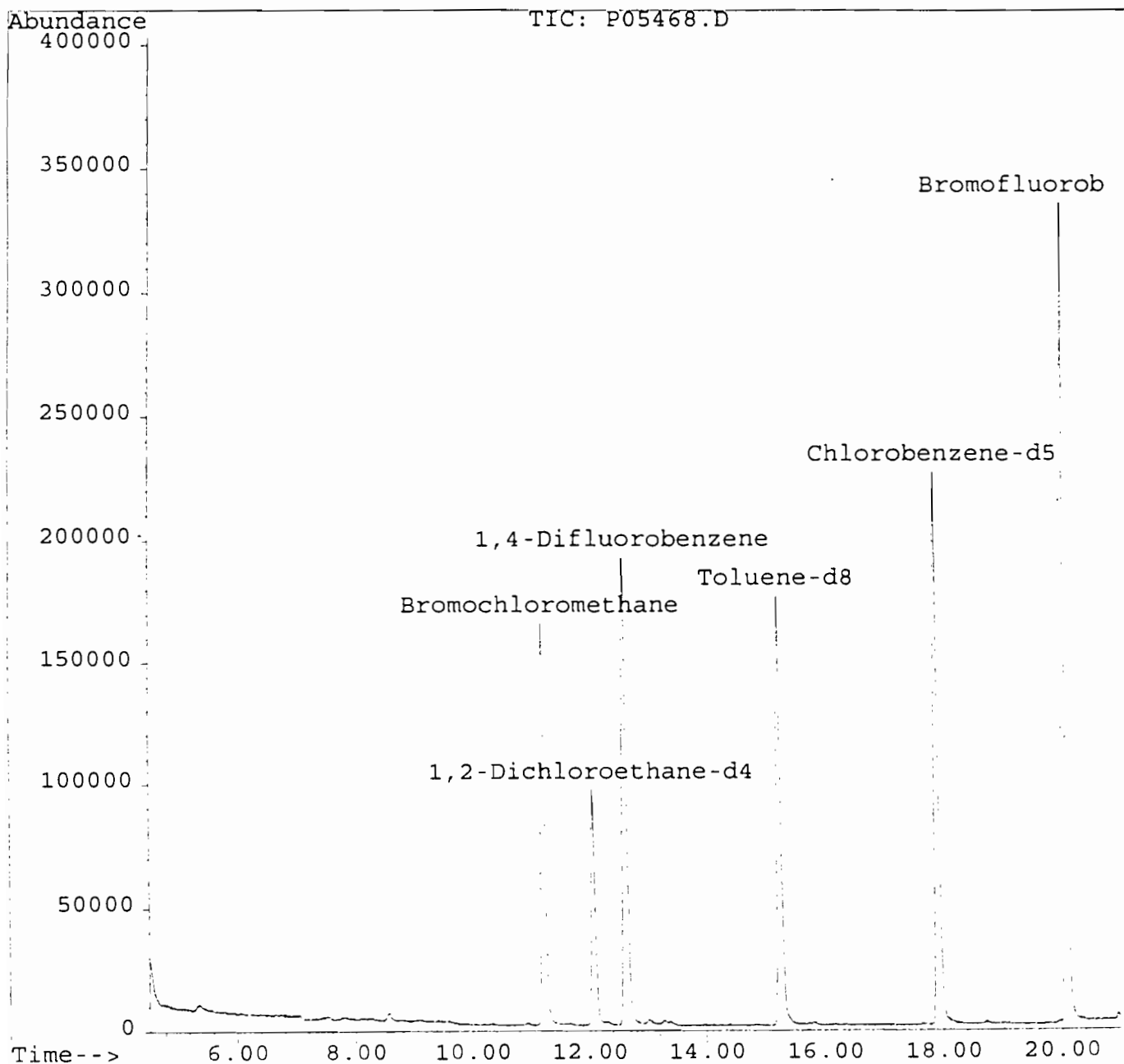
V 0031

Quantitation Report

Data File : C:\HPCHEM\1\DATA\P05468.D
 Acq On : 24 Jan 97 2:10 pm
 Sample : 9702017
 Misc : B60203 H5970-3 1/24/97 5.0G
 Quant Time: Feb 5 10:58 1997

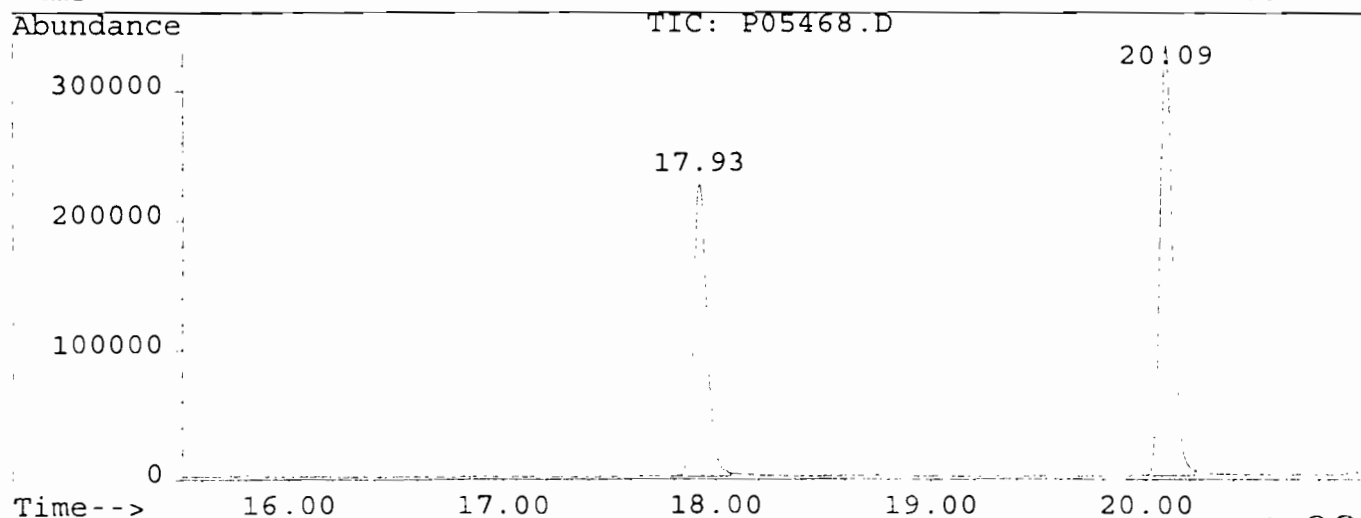
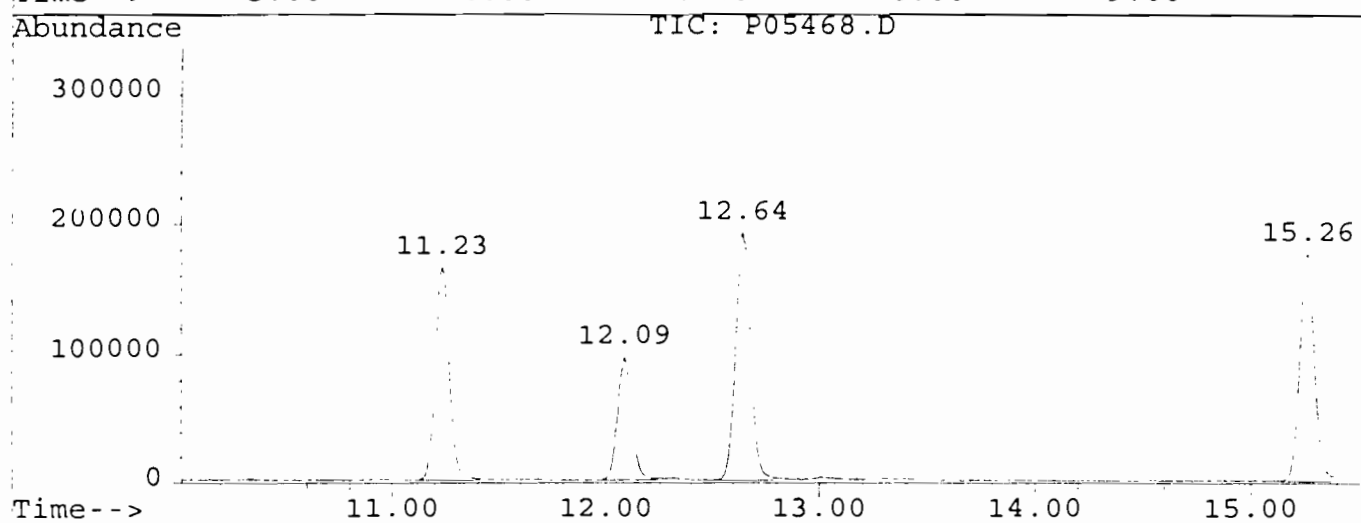
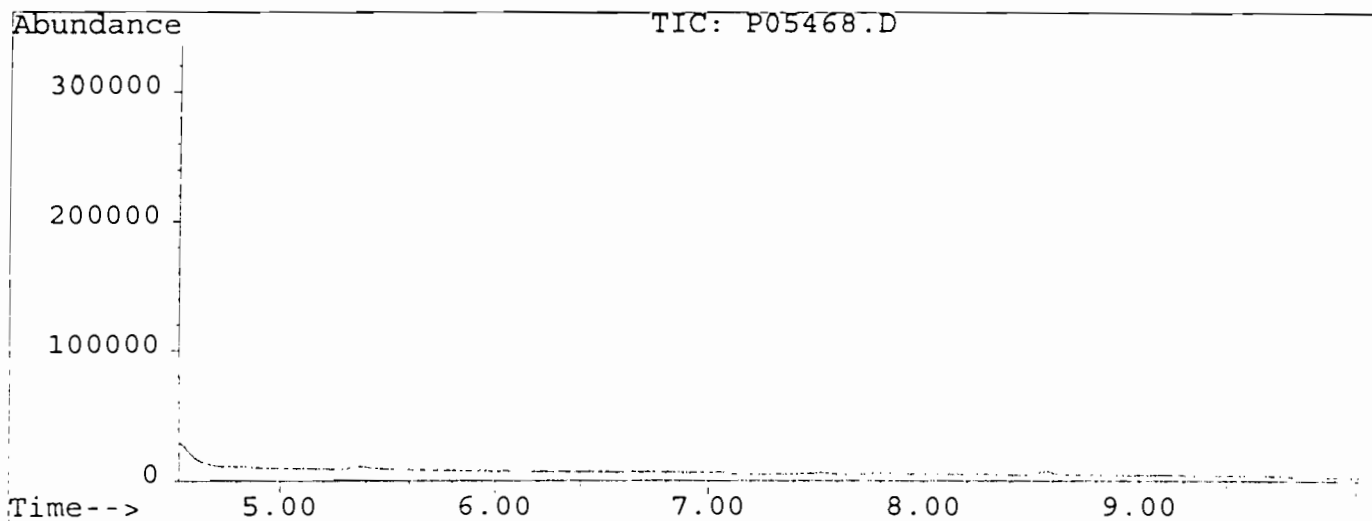
Vial: 8
 Operator: GLENN
 Inst : 5970 - In
 Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\CLPS.M
 Title : VOA CLP WATER METHOD
 Last Update : Wed Feb 05 12:46:55 1997
 Response via : Single Level Calibration



V 0002

File : C:\HPCHEM\1\DATA\P05468.D
Operator : GLENN
Acquired : 24 Jan 97 14:10 using AcqMethod CLPS
Instrument : 5970 - In
Sample Name: 9702017
Misc Info : B60203 H5970-3 1/24/97 5.0G
Vial Number: 8



Quantitation Report

Data File : C:\HPCHEM\1\DATA\P05468.D
 Acq On : 24 Jan 97 14:10
 Sample : 9702017
 Misc : B60203 H5970-3 1/24/97 5.0G
 Quant Time: Feb 5 10:58 1997

Vial: 8
 Operator: GLENN
 Inst : 5970 - In
 Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\CLPS.M
 Title : VOA CLP WATER METHOD
 Last Update : Fri Jan 24 10:47:18 1997
 Response via : Continuing Cal File: C:\HPCHEM\1\DATA\P05461.D

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	11.23	128	97905	50.00	UG/L	-0.04
21) 1,4-Difluorobenzene	12.64	114	333988	50.00	UG/L	-0.05
33) Chlorobenzene-d5	17.92	117	275780	50.00	UG/L	-0.04

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	%Recovery
18) 1,2-Dichloroethane-d4	12.09	65	164413	55.73	UG/L	111.45%
34) Toluene-d8	15.26	98	279245	48.83	UG/L	97.67%
43) Bromofluorobenzene	20.09	95	270794	51.84	UG/L	103.69%

Target Compounds	Qvalue

(#) = qualifier out of range (m) = manual integration

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\P05468.D
Acq On : 24 Jan 97 14:10
Sample : 9702017
Misc : B60203 H5970-3 1/24/97 5.0G

Vial: 8
Operator: GLENN
Inst : 5970 - In
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\CLPS.M
Title : VOA CLP WATER METHOD
Library : NBS75K.L

No Library Search Compounds Detected

V 0035

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B60204

Lab Name: H2M LABS INC. Contract: C003180
 Lab Code: 10478 Case No.: RA096 SAS No.: SDG No.: 0121
 Matrix: (soil/water) SOIL Lab Sample ID: 9702018
 Sample wt/vol: 5.0 (g/ml) G Lab File ID: P05469.D
 Level: (low/med) LOW Date Received: 01/23/97
 % Moisture: not dec. 3 Date Analyzed: 01/24/97
 GC Column: RTX502 ID: 0.53 (mm) Dilution Factor: 1.0
 Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

A6SP-61
(20'-22')

CONCENTRATION UNITS:

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

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

B60204

Lab Name: H2M LABS INC. Contract: C003180
Lab Code: 10478 Case No.: RA096 SAS No.: SDG No.: 0121
Matrix: (soil/water) SOIL Lab Sample ID: 9702018
Sample wt/vol: 5.0 (g/ml) G Lab File ID: P05469.D
Level: (low/med) LOW Date Received: 01/23/97
% Moisture: not dec. 3 Date Analyzed: 01/24/97
GC Column: RTX502. ID: 0.53 (mm) Dilution Factor: 1.0
Soil Extract Volume: 1 (uL) Soil Aliquot Volume: 1 (uL)

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

Number TICs found: 0

CAS NO.	COMPOUND	RT	EST. CONC.	Q

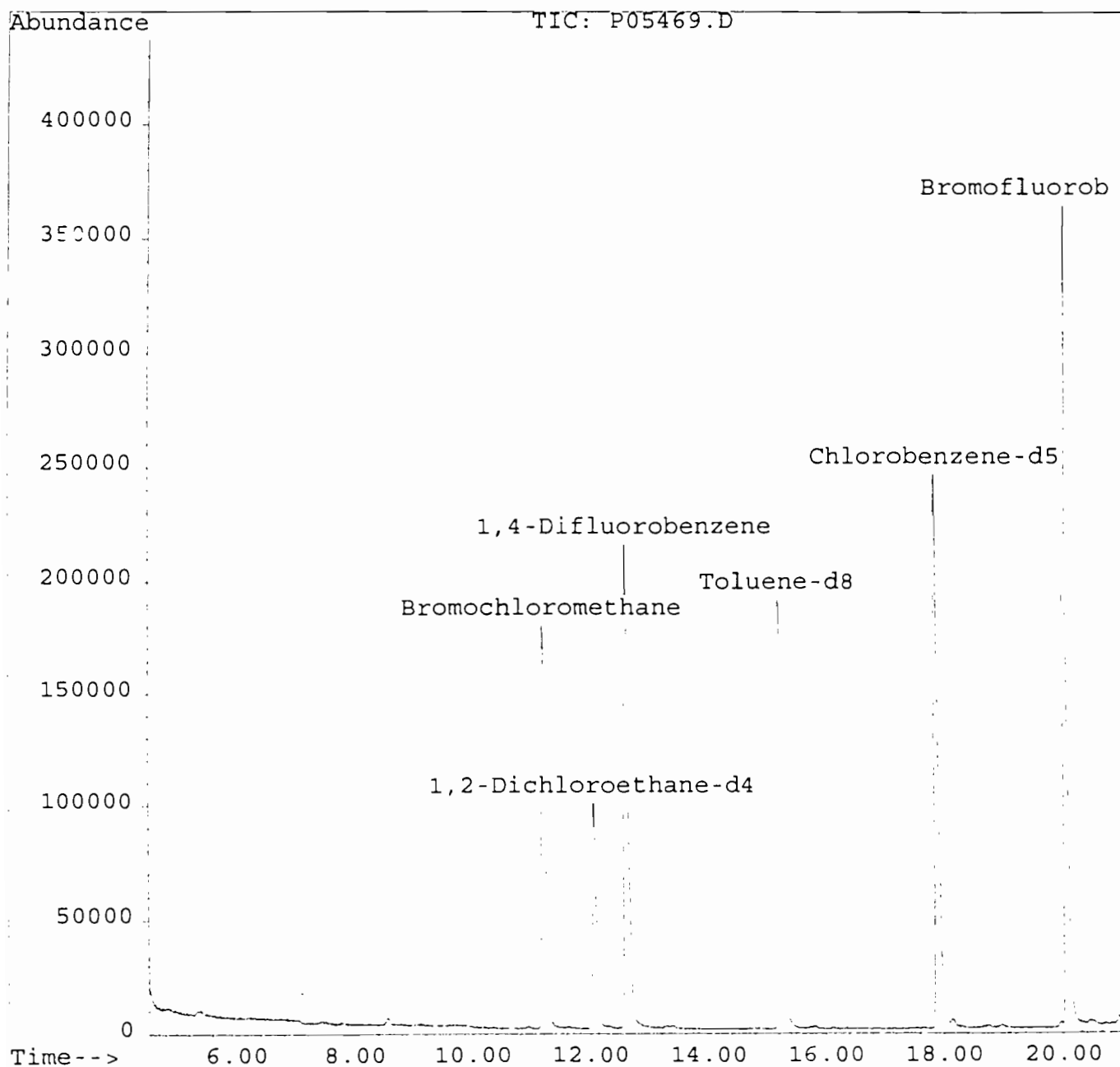
V 6037

Quantitation Report

Data File : C:\HPCHEM\1\DATA\P05469.D
 Acq On : 24 Jan 97 2:41 pm
 Sample : 9702018
 Misc : B60204 H5970-3 1/24/97 5.0G
 Quant Time: Jan 24 15:06 1997

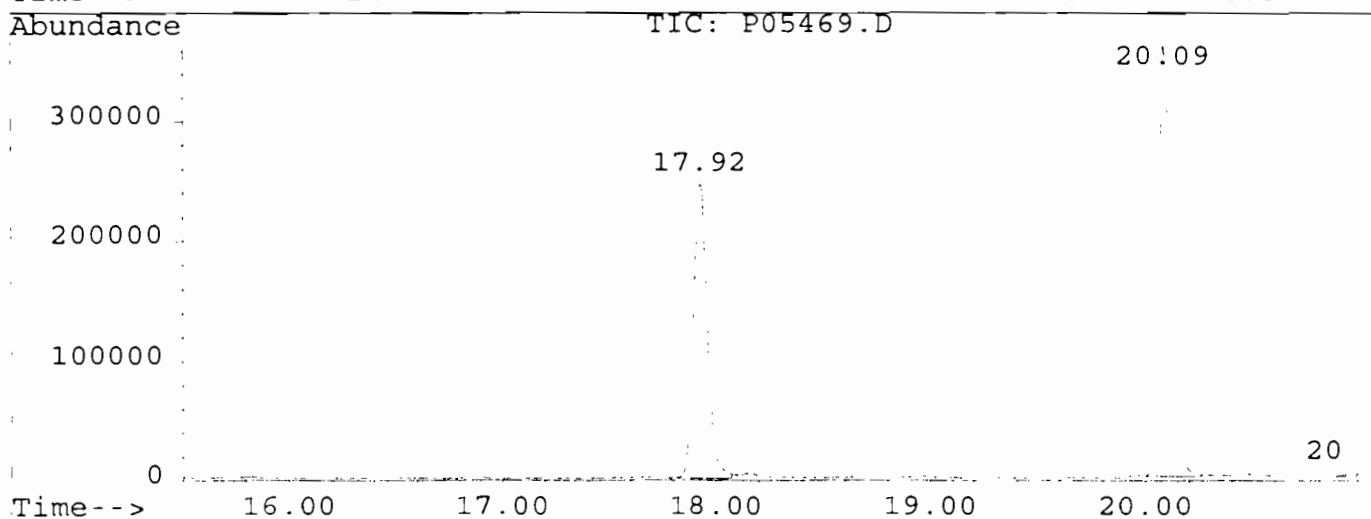
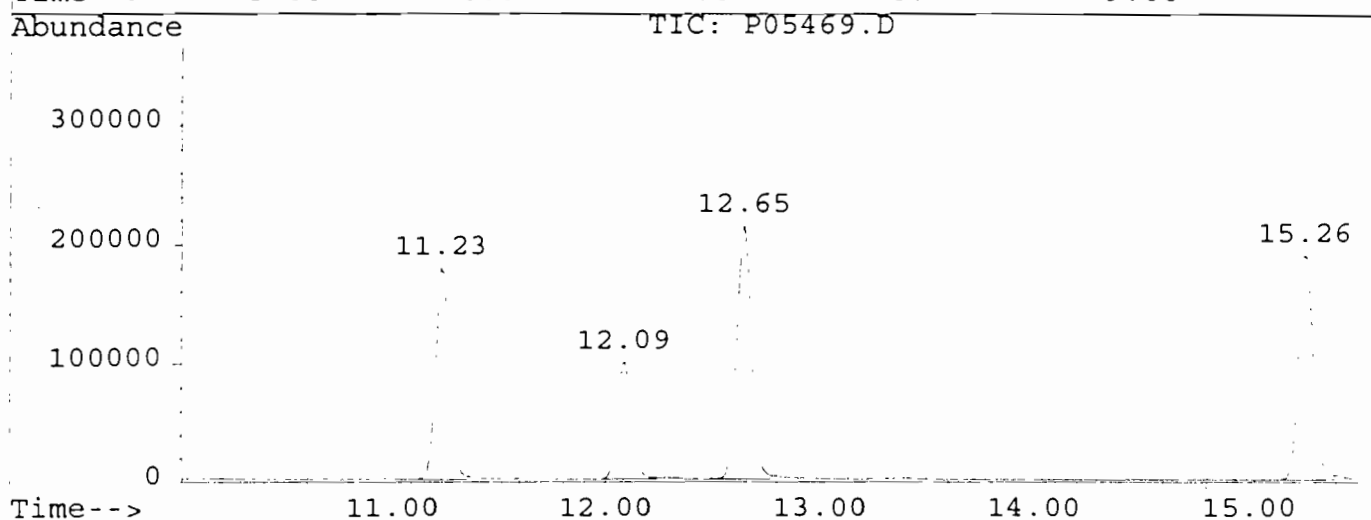
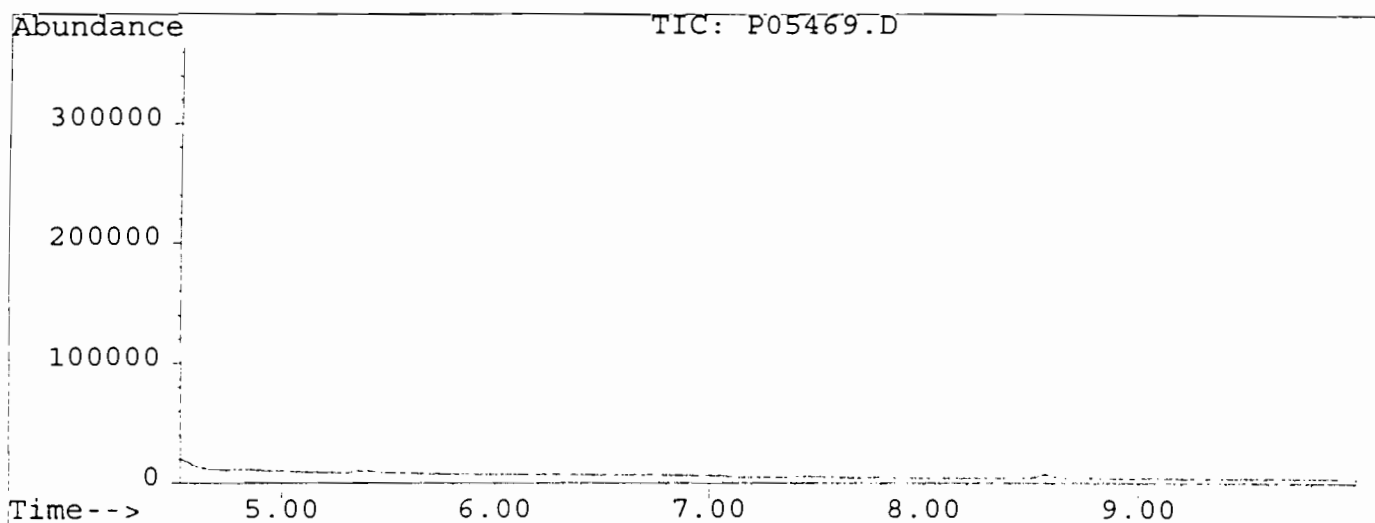
Vial: 9
 Operator: GLENN
 Inst : 5970 - In
 Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\CLPS.M
 Title : VOA CLP WATER METHOD
 Last Update : Wed Feb 05 12:46:55 1997
 Response via : Single Level Calibration



V 0035

File : C:\HPCHEM\1\DATA\P05469.D
Operator : GLENN
Acquired : 24 Jan 97 14:41 using AcqMethod CLPS
Instrument : 5970 - In
Sample Name: 9702018
Misc Info : B60204 H5970-3 1/24/97 5.0G
Vial Number: 9



Quantitation Report

Data File : C:\HPCHEM\1\DATA\P05469.D
 Acq On : 24 Jan 97 14:41
 Sample : 9702018
 Misc : B60204 H5970-3 1/24/97 5.0G
 Quant Time: Jan 24 15:06 1997

Vial: 9
 Operator: GLENN
 Inst : 5970 - In
 Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\CLPS.M
 Title : VOA CLP WATER METHOD
 Last Update : Fri Jan 24 10:47:18 1997
 Response via : Continuing Cal File: C:\HPCHEM\1\DATA\P05461.D

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane	11.23	128	105098	50.00	UG/L	-0.04
21) 1,4-Difluorobenzene	12.65	114	365332	50.00	UG/L	-0.03
33) Chlorobenzene-d5	17.94	117	300127	50.00	UG/L	-0.02

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	%Recovery
18) 1,2-Dichloroethane-d4	12.09	65	174546	55.11	UG/L	110.23%
34) Toluene-d8	15.26	98	301974	48.52	UG/L	97.05%
43) Bromofluorobenzene	20.09	95	293490	51.63	UG/L	103.26%

Target Compounds Qvalue

Data File : C:\HPCHEM\1\DATA\P05469.D
Acq On : 24 Jan 97 14:41
Sample : 9702018
Misc : B60204 H5970-3 1/24/97 5.0G

Vial: 9
Operator: GLENN
Inst : 5970 - In
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\CLPS.M
Title : VOA CLP WATER METHOD
Library : NBS75K.L

No Library Search Compounds Detected

V 0041

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B60205

Lab Name: H2M LABS INC. Contract: C003180

Lab Code: 10478 Case No.: RA096 SAS No.: SDG No.: 0121

Matrix: (soil/water) SOIL Lab Sample ID: 9702019

Sample wt/vol: 5.0 (g/ml) G Lab File ID: P05560.D

Level: (low/med) LOW Date Received: 01/23/97

% Moisture: not dec. 4.1 Date Analyzed: 02/05/97

GC Column: RTX502. ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

A6SP-01
(25'-27')

CONCENTRATION UNITS:

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

V 0042

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

B60205

Lab Name: H2M LABS INC. Contract: C003180
Lab Code: 10478 Case No.: RA096 SAS No.: _____ SDG No.: 0121
Matrix: (soil/water) SOIL Lab Sample ID: 9702019
Sample wt/vol: 5.0 (g/ml) G Lab File ID: P05560.D
Level: (low/med) LOW Date Received: 01/23/97
% Moisture: not dec. 4.1 Date Analyzed: 02/05/97
GC Column: RTX502. ID: 0.53 (mm) Dilution Factor: 1.0
Soil Extract Volume: 1 (uL) Soil Aliquot Volume: 1 (uL)

CONCENTRATION UNITS:

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

Number TICs found: 0

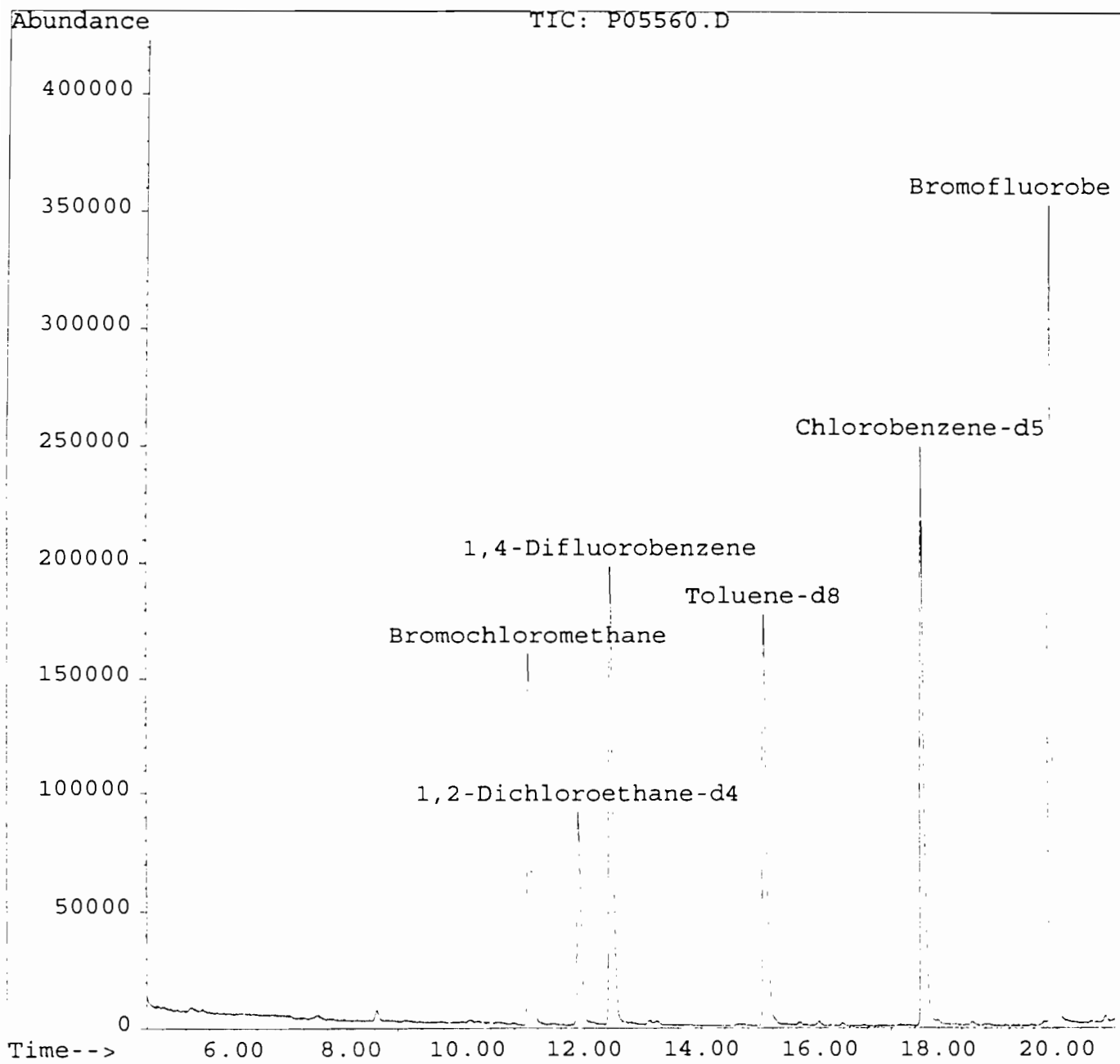
CAS NO.	COMPOUND	RT	EST. CONC.	Q

Quantitation Report

Data File : C:\HPCHEM\1\DATA\P05560.D
 Acq On : 5 Feb 97 2:15 pm
 Sample : 9702019
 Misc : B60205 H5970-3 2/5/97 5.0G
 Quant Time: Feb 6 8:21 1997

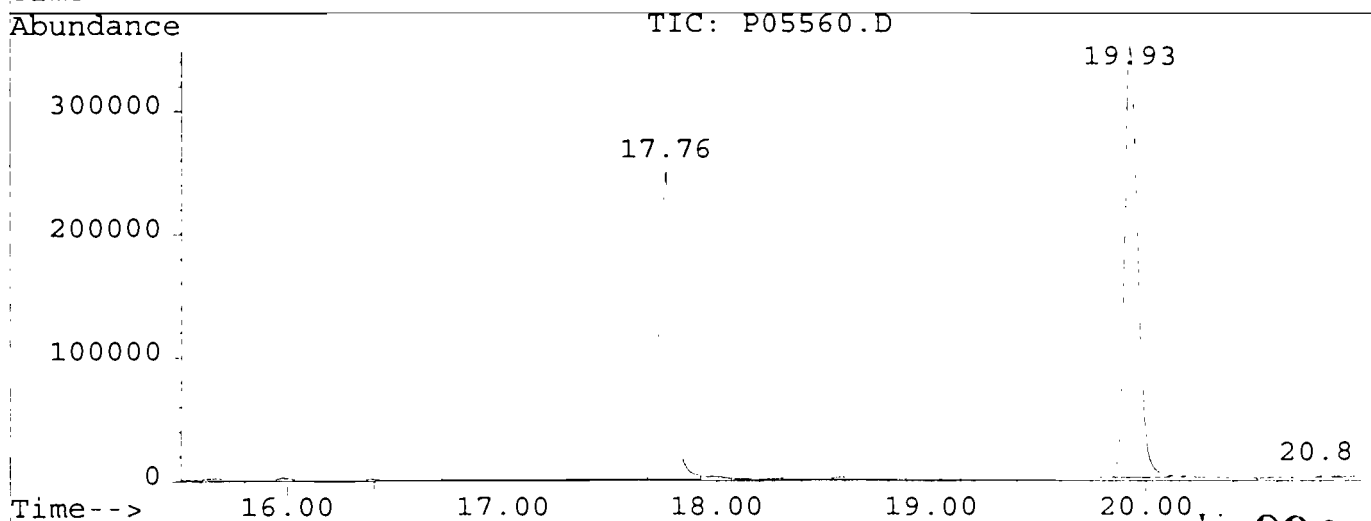
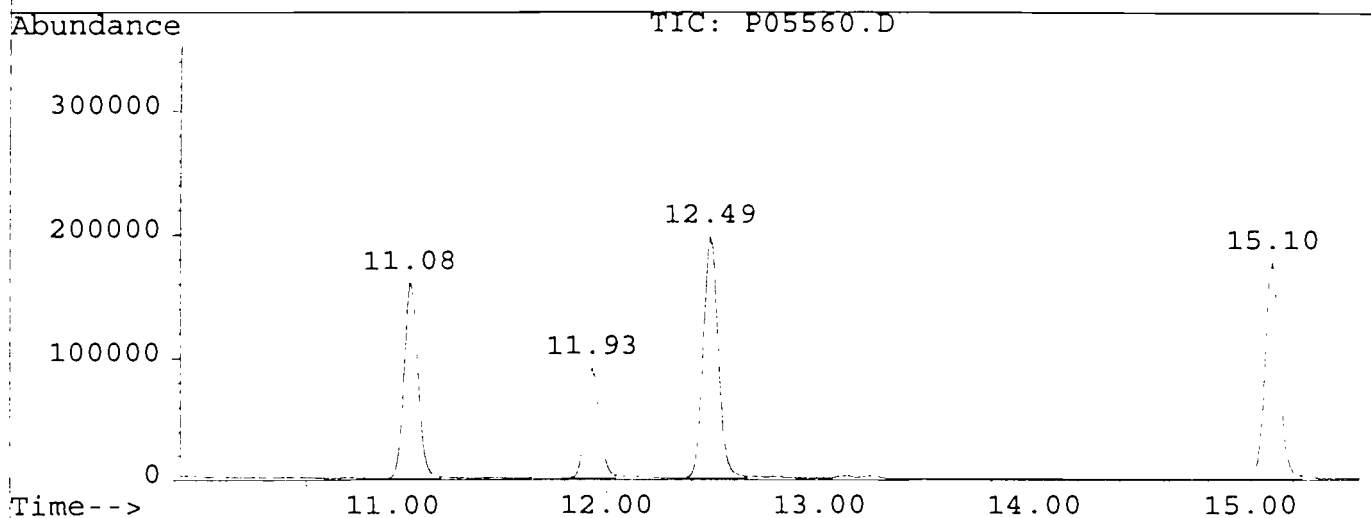
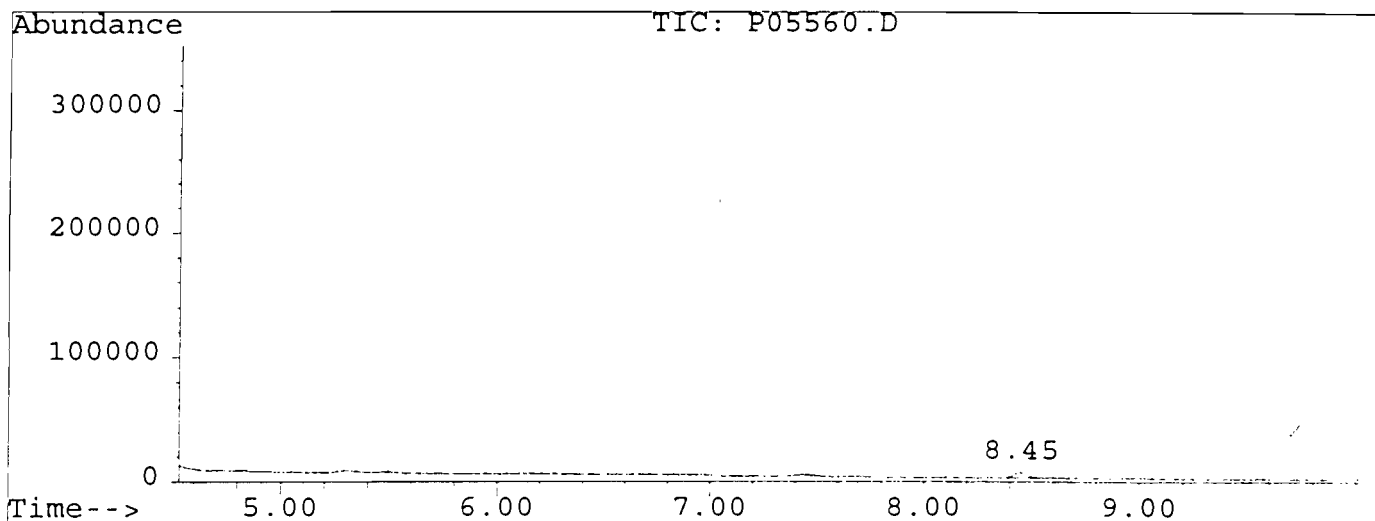
Vial: 3
 Operator: GLENN
 Inst : 5970 - In
 Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\CLPS.M
 Title : VOA CLP WATER METHOD
 Last Update : Wed Feb 05 12:46:55 1997
 Response via : Single Level Calibration



V 004.1

File : C:\HPCHEM\1\DATA\P05560.D
Operator : GLENN
Acquired : 5 Feb 97 14:15 using AcqMethod CLPS
Instrument : 5970 - In
Sample Name: 9702019
Misc Info : B60205 H5970-3 2/5/97 5.0G
Vial Number: 3



Quantitation Report

Data File : C:\HPCHEM\1\DATA\P05560.D
 Acq On : 5 Feb 97 14:15
 Sample : 9702019
 Misc : B60205 H5970-3 2/5/97 5.0G
 Quant Time: Feb 6 8:21 1997

Vial: 3
 Operator: GLENN
 Inst : 5970 - In
 Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\CLPS.M
 Title : VOA CLP WATER METHOD
 Last Update : Wed Feb 05 12:46:55 1997
 Response via : Continuing Cal File: C:\HPCHEM\1\DATA\P05558.D

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	11.09	128	92704	50.00	UG/L	0.00
21) 1,4-Difluorobenzene	12.49	114	341281	50.00	UG/L	0.00
33) Chlorobenzene-d5	17.76	117	295649	50.00	UG/L	0.00
System Monitoring Compounds						%Recovery
18) 1,2-Dichloroethane-d4	11.93	65	157118	53.24	UG/L	106.48%
34) Toluene-d8	15.10	98	283070	50.31	UG/L	100.61%
43) Bromofluorobenzene	19.93	95	301853	50.81	UG/L	101.62%
Target Compounds						Qvalue
9) Methylene Chloride	8.45	84	4641	1.38	UG/L	89

(#) = qualifier out of range (m) = manual integration

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\P05560.D
Acq On : 5 Feb 97 14:15
Sample : 9702019
Misc : B60205 H5970-3 2/5/97 5.0G

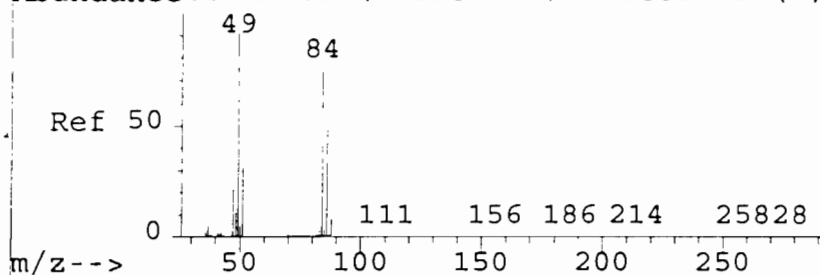
Vial: 3
Operator: GLENN
Inst : 5970 - In
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\CLPS.M
Title : VOA CLP WATER METHOD
Library : NBS75K.L

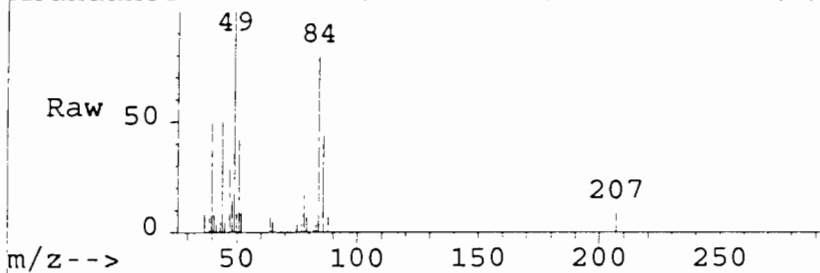
No Library Search Compounds Detected

V 0047

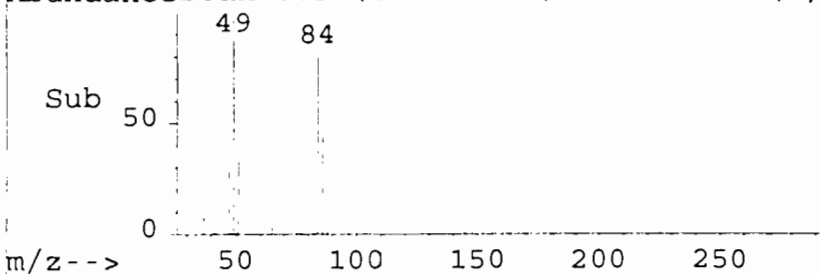
AbundanceScan 705 (8.555 min): P05327.D (-,



AbundanceScan 685 (8.446 min): P05560.D (*)

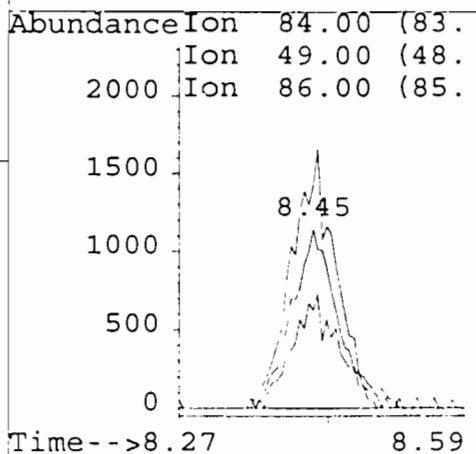


AbundanceScan 685 (8.446 min): P05560.D (-,



#9
Methylene Chloride
Concen: 1.38 UG/L
RT: 8.45 min Scan# 685
Delta R.T. 0.01 min
Lab File: P05560.D
Acq: 5 Feb 97 2:15 pm

Tgt Ion:	84	Resp:	4641
Ion	Ratio	Lower	Upper
84	100		
49	124.6	113.6	153.6
86	54.8	48.1	88.1
0	0.0	0.0	0.0



Sample Name: 9702019
Misc. Info: B60205 H5970-3 2/5/97 5.0G
P05560.D CLPS.M Thu Feb 06 10:33:16 1997

V 0045

MASSPEC1

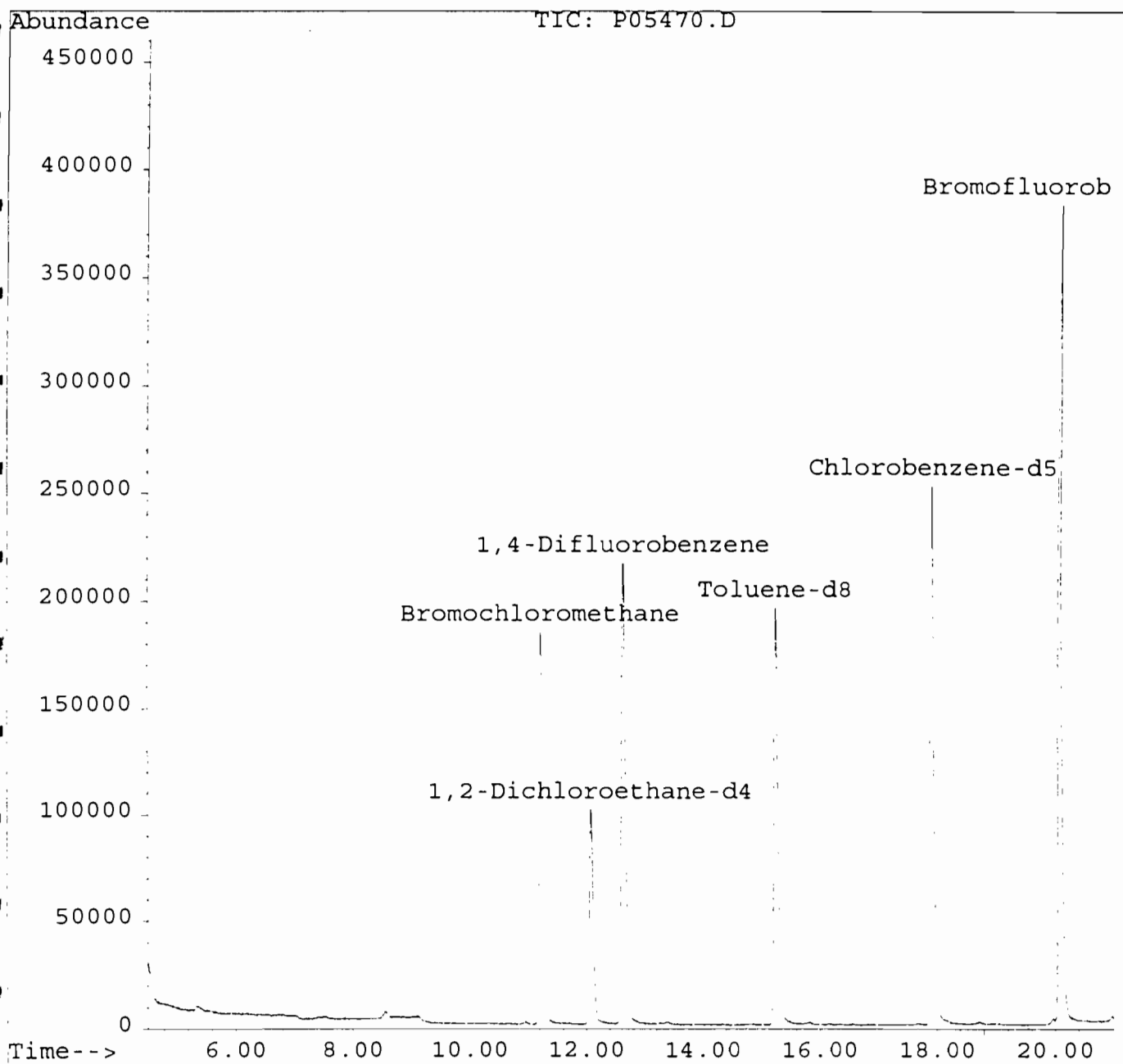
Page 3

Quantitation Report

Data File : C:\HPCHEM\1\DATA\P05470.D
Acq On : 24 Jan 97 3:12 pm
Sample : 9702019
Misc : B60205 H5970-3 1/24/97 5.0G
Quant Time: Jan 24 15:37 1997

Vial: 10
Operator: GLENN
Inst : 5970 - In
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\CLPS.M
Title : VOA CLP WATER METHOD
Last Update : Fri Jan 24 10:47:18 1997
Response via : Single Level Calibration



Quantitation Report

Data File : C:\HPCHEM\1\DATA\P05470.D
 Acq On : 24 Jan 97 15:12
 Sample : 9702019
 Misc : B60205 H5970-3 1/24/97 5.0G
 Quant Time: Jan 24 15:37 1997

Vial: 10
 Operator: GLENN
 Inst : 5970 - In
 Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\CLPS.M
 Title : VOA CLP WATER METHOD
 Last Update : Fri Jan 24 10:47:18 1997
 Response via : Continuing Cal File: C:\HPCHEM\1\DATA\P05461.D

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	11.23	128	107819	50.00	UG/L	-0.04
21) 1,4-Difluorobenzene	12.65	114	378262	50.00	UG/L	-0.03
33) Chlorobenzene-d5	17.94	117	312689	50.00	UG/L	-0.02

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	%Recovery
18) 1,2-Dichloroethane-d4	12.08	65	178378	54.90	UG/L	109.80%
34) Toluene-d8	15.26	98	314411	48.49	UG/L	96.98%
43) Bromofluorobenzene	20.09	95	309758	52.30	UG/L	104.60%

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B60206

Lab Name: H2M LABS INC. Contract: C003180
 Lab Code: 10478 Case No.: RA096 SAS No.: _____ SDG No.: 0121
 Matrix: (soil/water) SOIL Lab Sample ID: 9702020
 Sample wt/vol: 5.0 (g/ml) G Lab File ID: P05471.D
 Level: (low/med) LOW Date Received: 01/23/97
 % Moisture: not dec. 3.7 Date Analyzed: 01/24/97
 GC Column: RTX502. ID: 0.53 (mm) Dilution Factor: 1.0
 Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

A65P-01
(36'-32')

CONCENTRATION UNITS:

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

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

B60206

Lab Name: H2M LABS INC. Contract: C003180
Lab Code: 10478 Case No.: RA096 SAS No.: _____ SDG No.: 0121
Matrix: (soil/water) SOIL Lab Sample ID: 9702020
Sample wt/vol: 5.0 (g/ml) G Lab File ID: P05471.D
Level: (low/med) LOW Date Received: 01/23/97
% Moisture: not dec. 3.7 Date Analyzed: 01/24/97
GC Column: RTX502 ID: 0.53 (mm) Dilution Factor: 1.0
Soil Extract Volume: 1 (uL) Soil Aliquot Volume: 1 (uL)

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

Number TICs found: 0

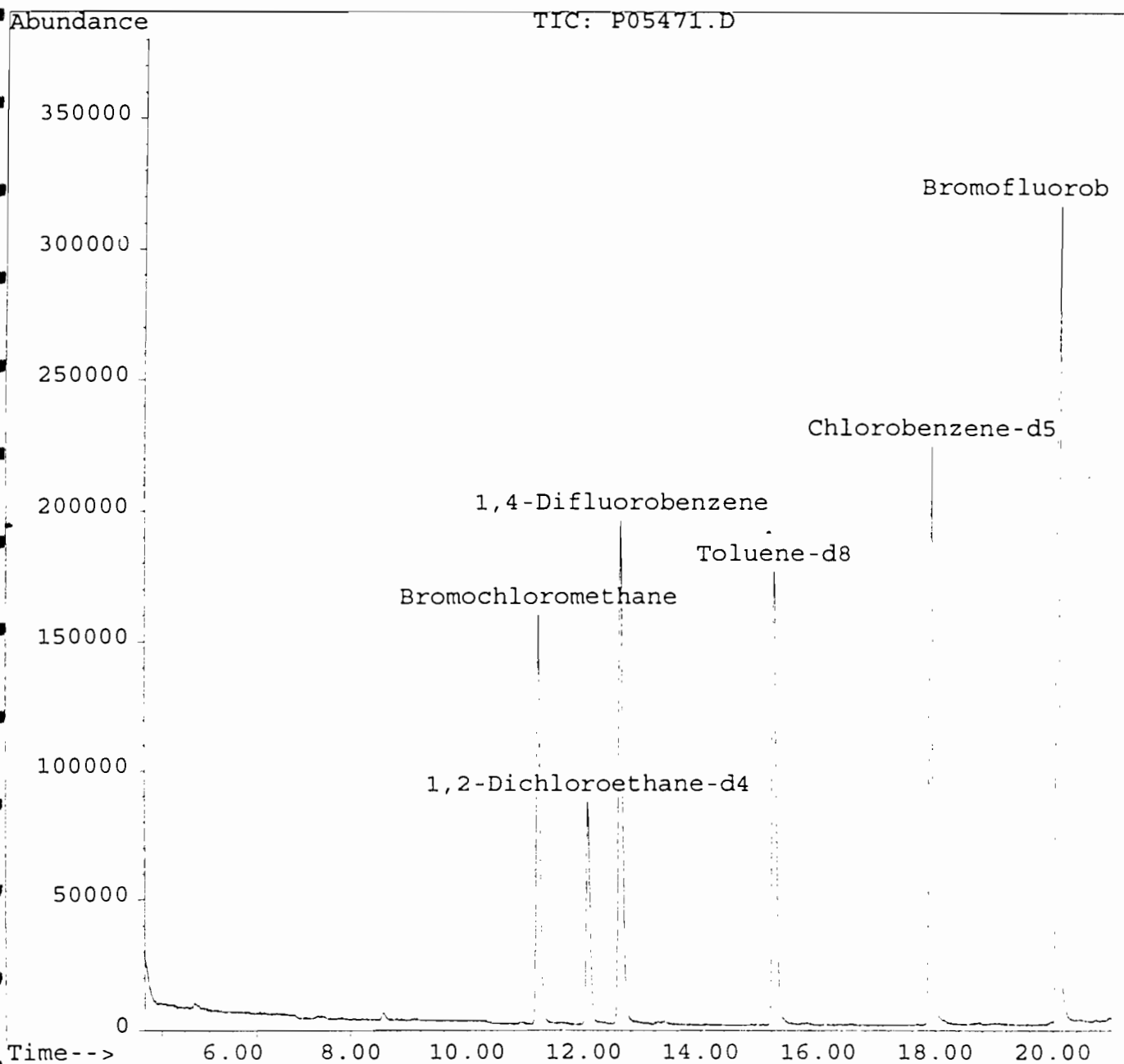
CAS NO.	COMPOUND	RT	EST. CONC.	Q

Quantitation Report

Data File : C:\HPCHEM\1\DATA\P05471.D
 Acq On : 24 Jan 97 3:43 pm
 Sample : 9702020
 Misc : B60206 H5970-3 1/24/97 5.0G
 Quant Time: Feb 5 10:59 1997

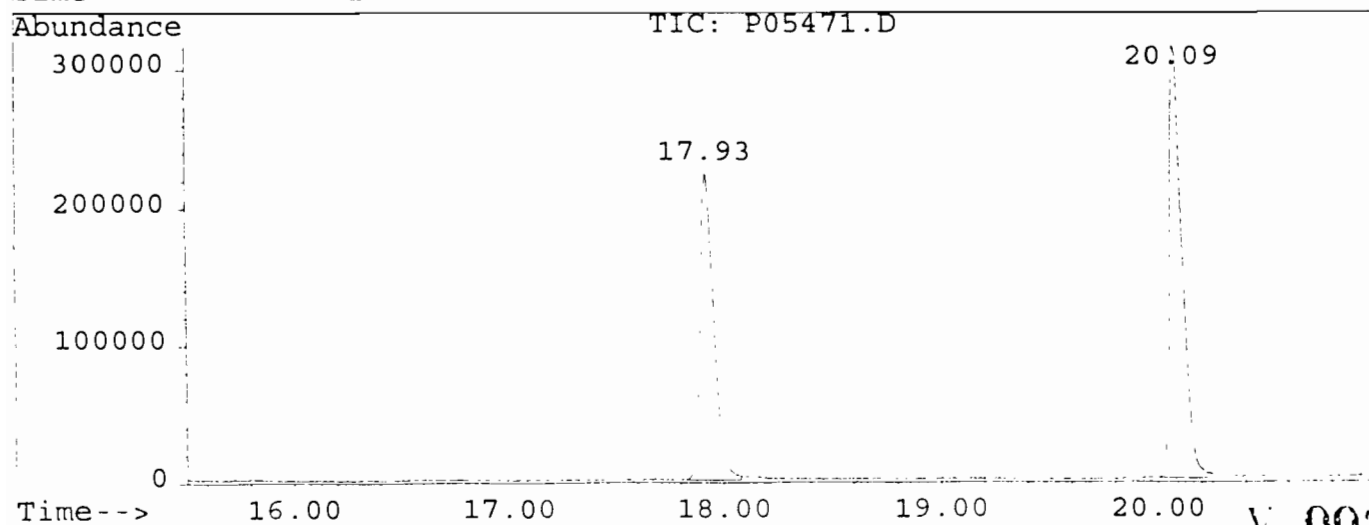
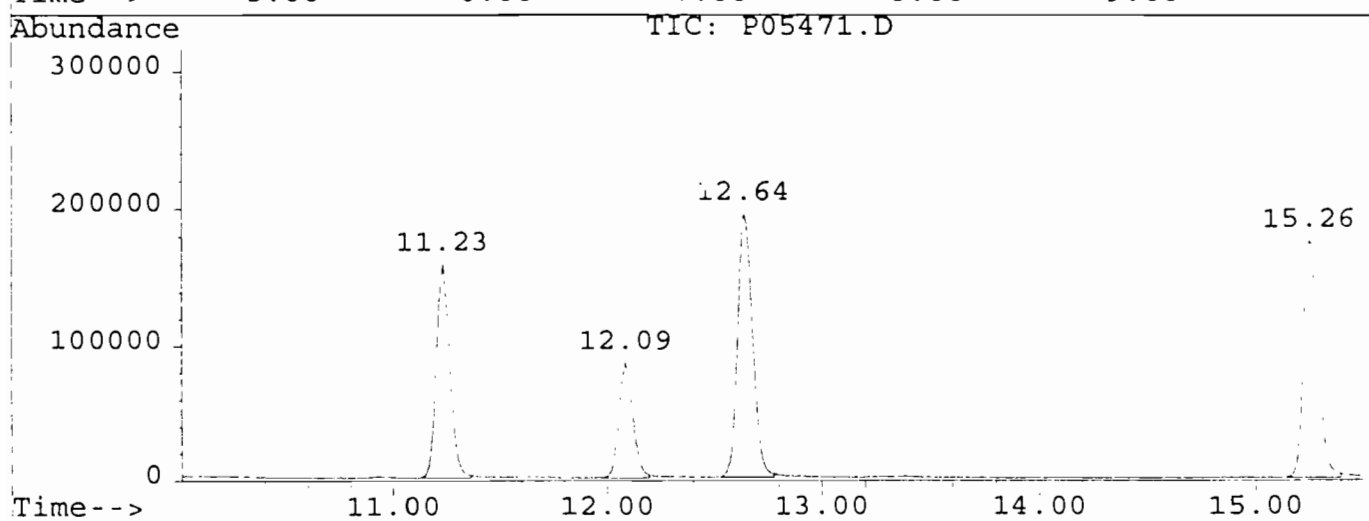
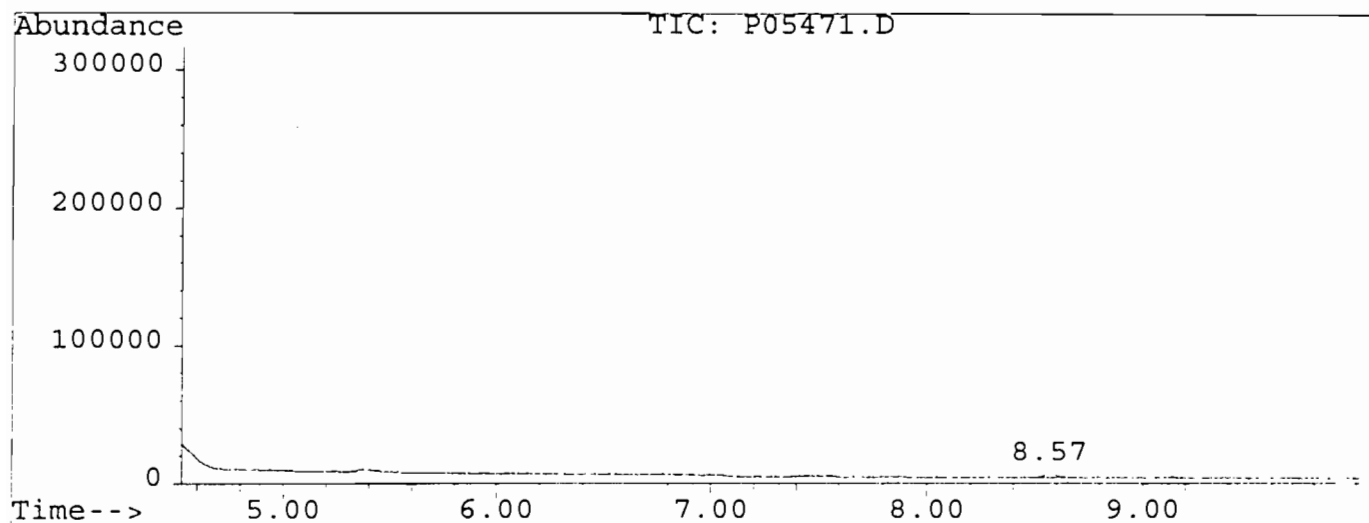
Vial: 11
 Operator: GLENN
 Inst : 5970 - In
 Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\CLPS.M
 Title : VOA CLP WATER METHOD
 Last Update : Wed Feb 05 12:46:55 1997
 Response via : Single Level Calibration



V 0053

File : C:\HPCHEM\1\DATA\P05471.D
Operator : GLENN
Acquired : 24 Jan 97 15:43 using AcqMethod CLPS
Instrument : 5970 - In
Sample Name: 9702020
Misc Info : B60206 H5970-3 1/24/97 5.0G
Vial Number: 11



Quantitation Report

Data File : C:\HPCHEM\1\DATA\P05471.D
Acq On : 24 Jan 97 15:43
Sample : 9702020
Misc : B60206 H5970-3 1/24/97 5.0G
Quant Time: Feb 5 10:59 1997

Vial: 11
Operator: GLENN
Inst : 5970 - In
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\CLPS.M
Title : VOA CLP WATER METHOD
Last Update : Fri Jan 24 10:47:18 1997
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\P05461.D

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	11.23	128	91235	50.00	UG/L	-0.04
21) 1,4-Difluorobenzene	12.64	114	339060	50.00	UG/L	-0.04
33) Chlorobenzene-d5	17.93	117	273376	50.00	UG/L	-0.03
System Monitoring Compounds				%Recovery		
18) 1,2-Dichloroethane-d4	12.09	65	147220	53.55	UG/L	107.10%
34) Toluene-d8	15.26	98	279436	49.30	UG/L	98.59%
43) Bromofluorobenzene	20.09	95	257249	49.68	UG/L	99.36%

Target Compounds

Qvalue

(#) = qualifier out of range (m) = manual integration

P05471.D CLPS.M Thu Feb 06 10:31:25 1997 MASSPEC1

Page 1

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\P05471.D
Acq On : 24 Jan 97 15:43
Sample : 9702020
Misc : B60206 H5970-3 1/24/97 5.0G

Vial: 11
Operator: GLENN
Inst : 5970 - In
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\CLPS.M
Title : VOA CLP WATER METHOD
Library : NBS75K.L

No Library Search Compounds Detected

V 0056

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B60207

Lab Name: H2M LABS INC. Contract: C003180
 Lab Code: 10478 Case No.: RA096 SAS No.: SDG No.: 0121
 Matrix: (soil/water) SOIL Lab Sample ID: 9702021
 Sample wt/vol: 5.0 (g/ml) G Lab File ID: P05472.D
 Level: (low/med) LOW Date Received: 01/23/97
 % Moisture: not dec. 3.7 Date Analyzed: 01/24/97
 GC Column: RTX502. ID: 0.53 (mm) Dilution Factor: 1.0
 Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

A6SP. 01
(35'-37')

CONCENTRATION UNITS:

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

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

B60207

Lab Name: H2M LABS INC. Contract: C003180

Lab Code: 10478 Case No.: RA096 SAS No.: SDG No.: 0121

Matrix: (soil/water) SOIL Lab Sample ID: 9702021

Sample wt/vol: 5.0 (g/ml) G Lab File ID: P05472.D

Level: (low/med) LOW Date Received: 01/23/97

% Moisture: not dec. 3.7 Date Analyzed: 01/24/97

GC Column: RTX502 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: 1 (uL) Soil Aliquot Volume: 1 (uL)

CONCENTRATION UNITS:

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

Number TICs found: 0

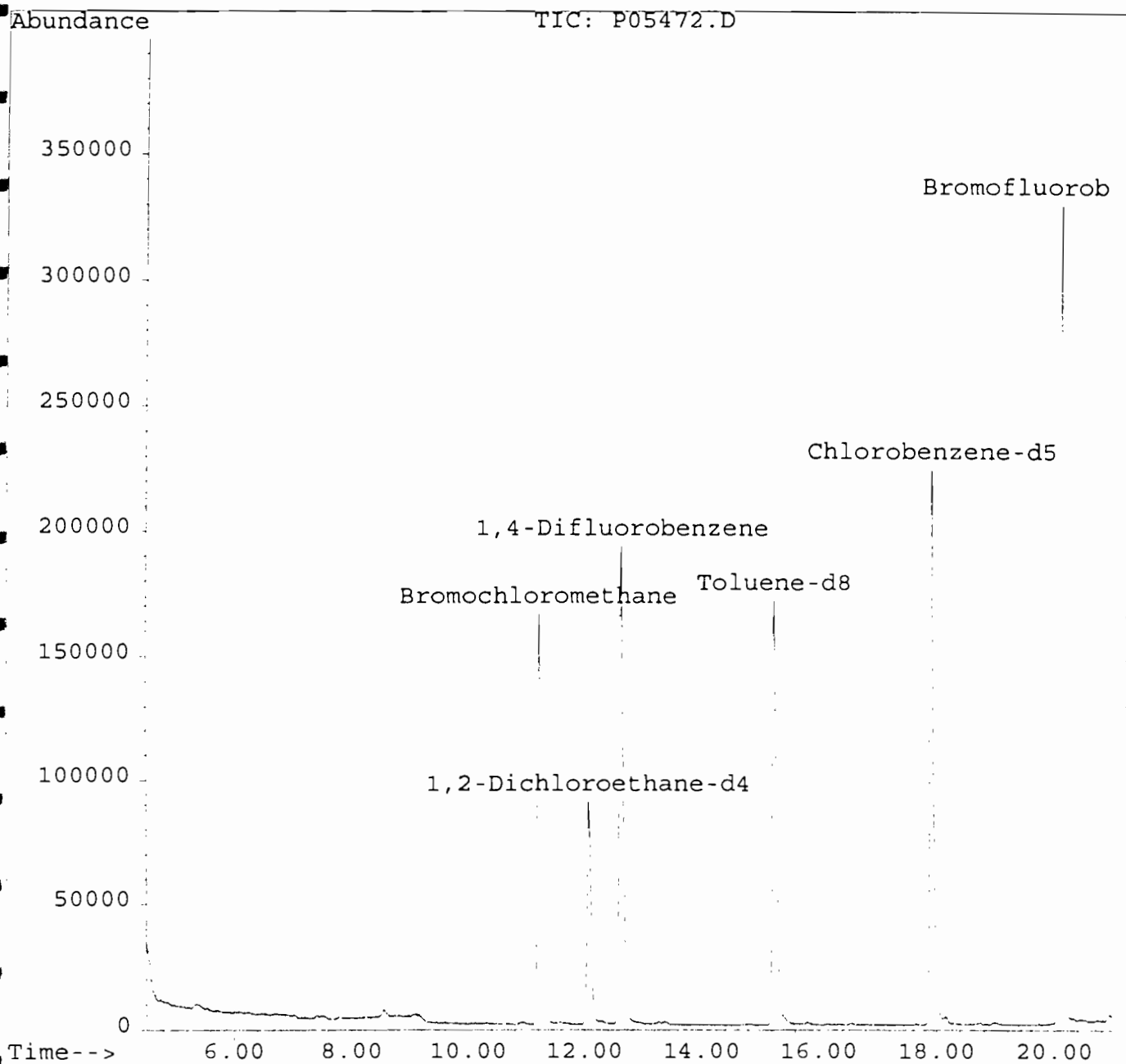
CAS NO.	COMPOUND	RT	EST. CONC.	Q

Quantitation Report

Data File : C:\HPCHEM\1\DATA\P05472.D
 Acq On : 24 Jan 97 4:14 pm
 Sample : 9702021
 Misc : B60207 H5970-3 1/24/97 5.0G
 Quant Time: Feb 5 10:59 1997

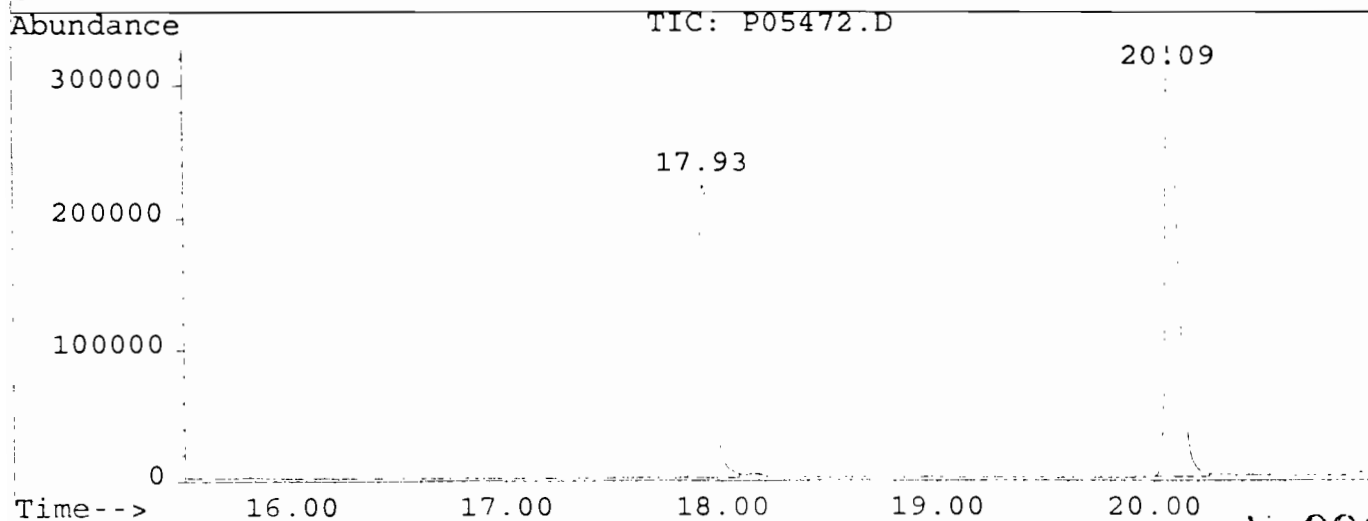
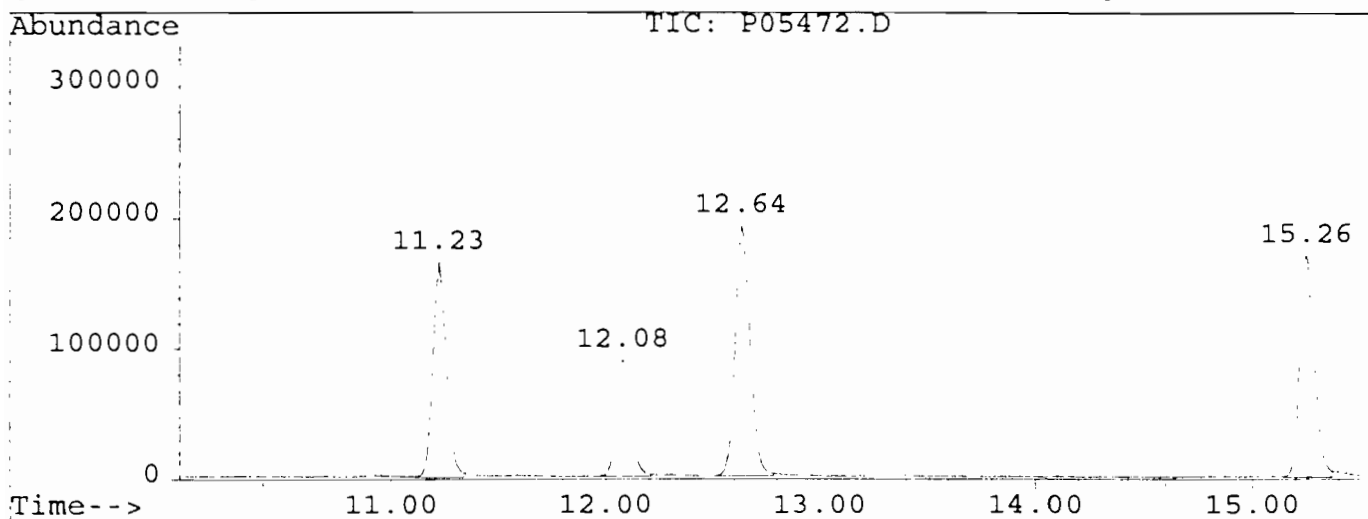
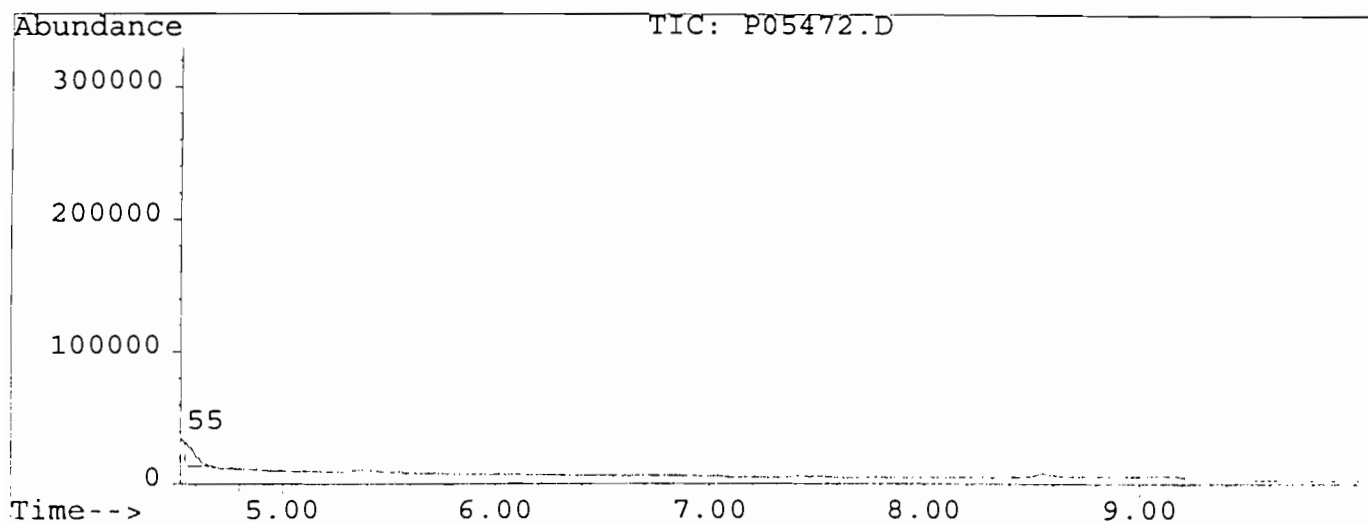
Vial: 12
 Operator: GLENN
 Inst : 5970 - In
 Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\CLPS.M
 Title : VOA CLP WATER METHOD
 Last Update : Wed Feb 05 12:46:55 1997
 Response via : Single Level Calibration



V 0059

File : C:\HPCHEM\1\DATA\P05472.D
Operator : GLENN
Acquired : 24 Jan 97 16:14 using AcqMethod CLPS
Instrument : 5970 - In
Sample Name: 9702021
Misc Info : B60207 H5970-3 1/24/97 5.0G
Vial Number: 12



Quantitation Report

Data File : C:\HPCHEM\1\DATA\P05472.D
Acq On : 24 Jan 97 16:14
Sample : 9702021
Misc : B60207 H5970-3 1/24/97 5.0G
Quant Time: Feb 5 10:59 1997

Vial: 12
Operator: GLENN
Inst : 5970 - In
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\CLPS.M
Title : VOA CLP WATER METHOD
Last Update : Fri Jan 24 10:47:18 1997
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\P05461.D

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	11.23	128	95043	50.00	UG/L	-0.04
21) 1,4-Difluorobenzene	12.64	114	327037	50.00	UG/L	-0.04
33) Chlorobenzene-d5	17.93	117	275102	50.00	UG/L	-0.03
System Monitoring Compounds						%Recovery
18) 1,2-Dichloroethane-d4	12.08	65	158733	55.42	UG/L	110.84%
34) Toluene-d8	15.26	98	270297	47.38	UG/L	94.77%
43) Bromofluorobenzene	20.09	95	264190	50.70	UG/L	101.41%

Target Compounds

Qvalue

(#) = qualifier out of range (m) = manual integration

P05472.D CLPS.M

Thu Feb 06 10:31:42 1997

MASSPEC1

Page 1

V-6061

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\P05472.D
Acq On : 24 Jan 97 16:14
Sample : 9702021
Misc : B60207 H5970-3 1/24/97 5.0G

Vial: 12
Operator: GLENN
Inst : 5970 - In
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\CLPS.M
Title : VOA CLP WATER METHOD
Library : NBS75K.L

No Library Search Compounds Detected

V 0062

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B60208

Lab Name: H2M LABS INC. Contract: C003180
 Lab Code: 10478 Case No.: RA096 SAS No.: _____ SDG No.: 0121
 Matrix: (soil/water) SOIL Lab Sample ID: 9702022
 Sample wt/vol: 5.0 (g/ml) G Lab File ID: P05473.D
 Level: (low/med) LOW Date Received: 01/23/97
 % Moisture: not dec. 3.7 Date Analyzed: 01/24/97
 GC Column: RTX502. ID: 0.53 (mm) Dilution Factor: 1.0
 Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

A6SP-01
(40'-42')

CONCENTRATION UNITS:

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

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

B60208

Lab Name: H2M LABS INC. Contract: C003180
Lab Code: 10478 Case No.: RA096 SAS No.: _____ SDG No.: 0121
Matrix: (soil/water) SOIL Lab Sample ID: 9702022
Sample wt/vol: 5.0 (g/ml) G Lab File ID: P05473.D
Level: (low/med) LOW Date Received: 01/23/97
% Moisture: not dec. 3.7 Date Analyzed: 01/24/97
GC Column: RTX502 ID: 0.53 (mm) Dilution Factor: 1.0
Soil Extract Volume: 1 (uL) Soil Aliquot Volume: 1 (uL)

CONCENTRATION UNITS:

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

Number TICs found: 0

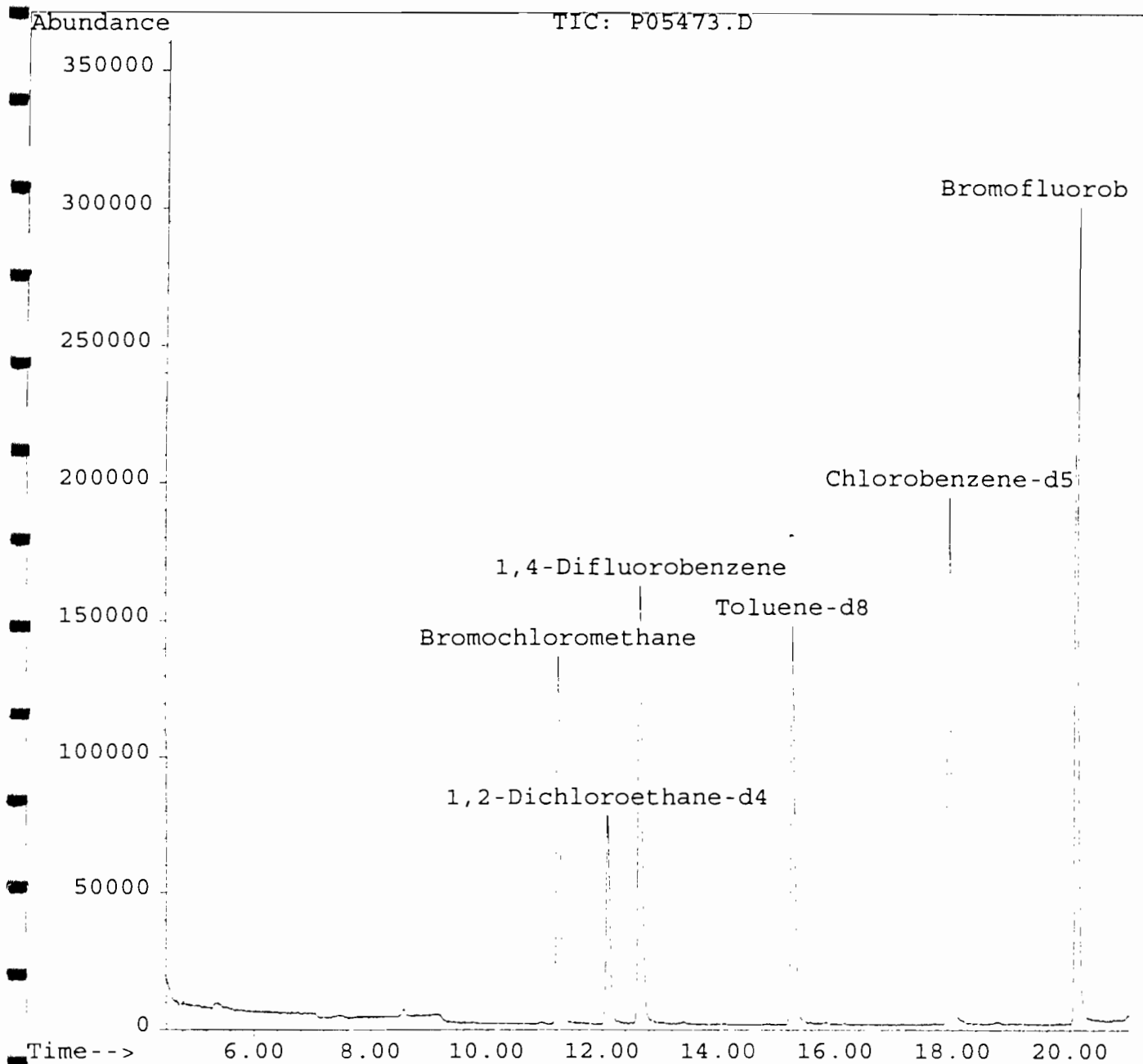
CAS NO.	COMPOUND	RT	EST. CONC.	Q

Quantitation Report

Data File : C:\HPCHEM\1\DATA\P05473.D
 Acq On : 24 Jan 97 4:45 pm
 Sample : 9702022
 Misc : B60208 H5970-3 1/24/97 5.0G
 Quant Time: Jan 24 17:10 1997

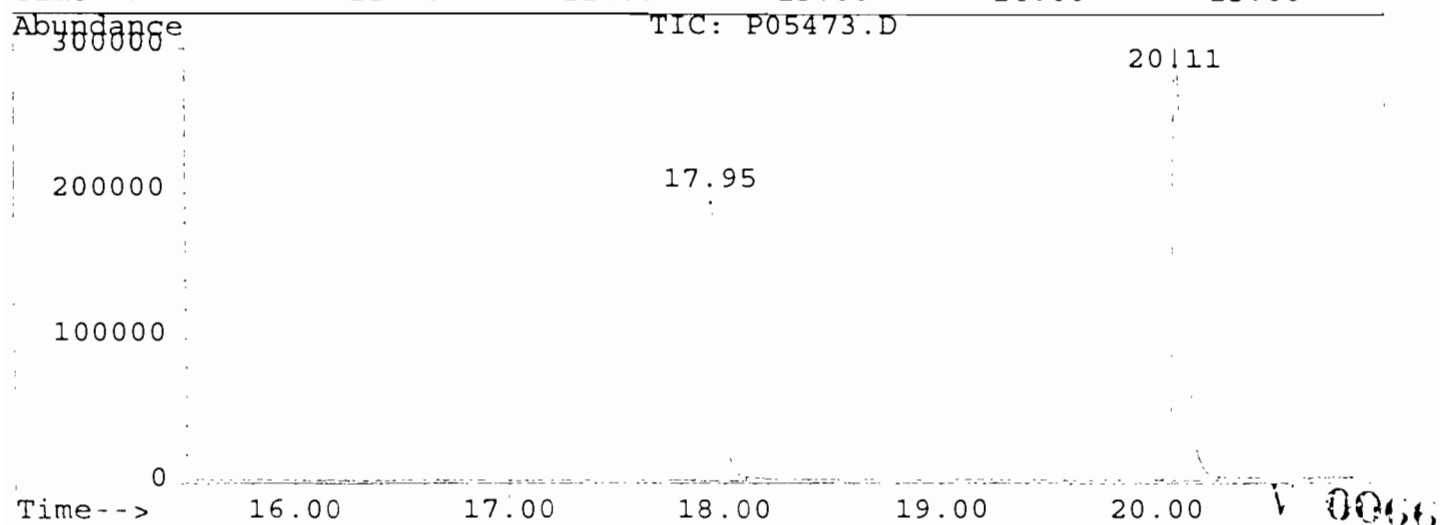
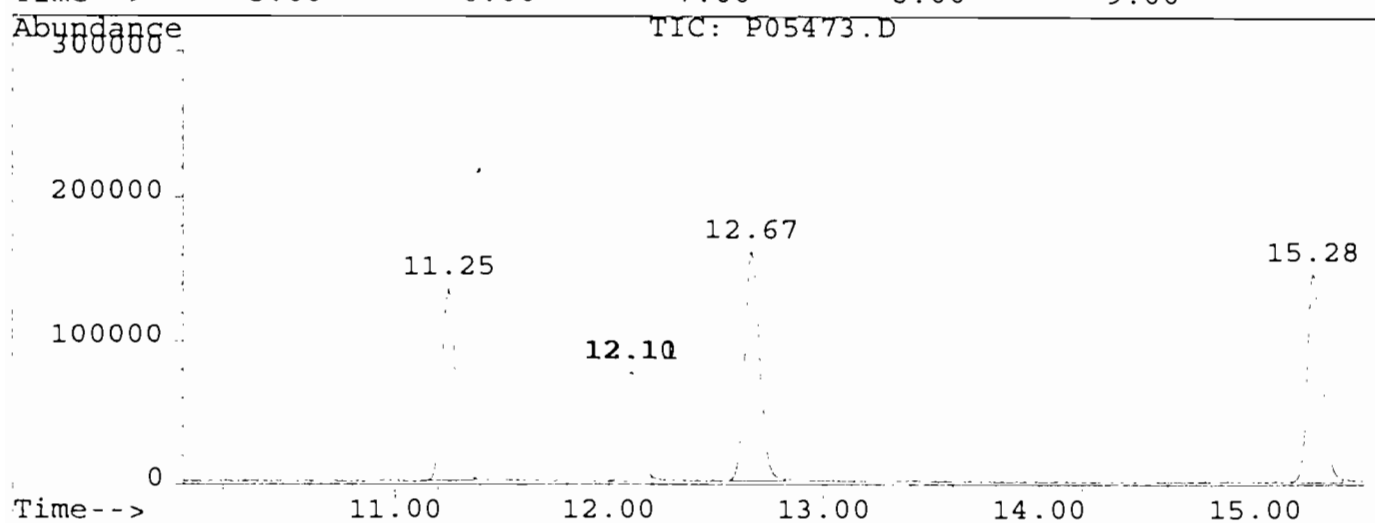
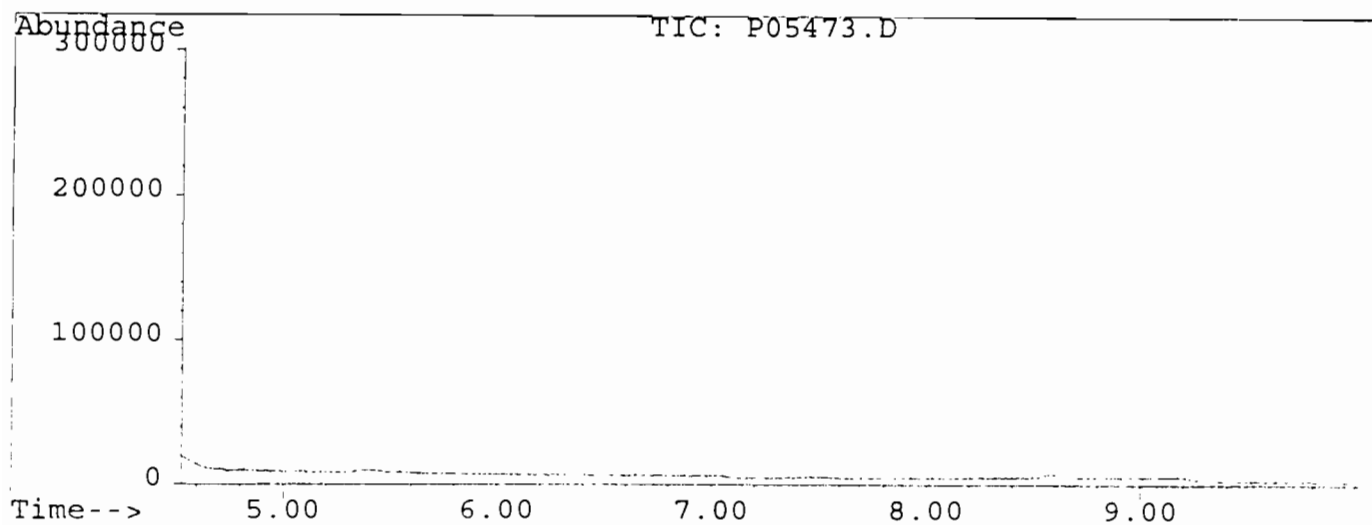
Vial: 13
 Operator: GLENN
 Inst : 5970 - In
 Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\CLPS.M
 Title : VOA CLP WATER METHOD
 Last Update : Wed Feb 05 12:46:55 1997
 Response via : Single Level Calibration



V 0065

File : C:\HPCHEM\1\DATA\P05473.D
Operator : GLENN
Acquired : 24 Jan 97 16:45 using AcqMethod CLPS
Instrument : 5970 - In
Sample Name: 9702022
Misc Info : B60208 H5970-3 1/24/97 5.0G
Vial Number: 13



Quantitation Report

Data File : C:\HPCHEM\1\DATA\P05473.D
Acq On : 24 Jan 97 16:45
Sample : 9702022
Misc : B60208 H5970-3 1/24/97 5.0G
Quant Time: Jan 24 17:10 1997

Vial: 13
Operator: GLENN
Inst : 5970 - In
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\CLPS.M
Title : VOA CLP WATER METHOD
Last Update : Fri Jan 24 10:47:18 1997
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\P05461.D

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	11.25	128	79254	50.00	UG/L	-0.02
21) 1,4-Difluorobenzene	12.66	114	281408	50.00	UG/L	-0.02
33) Chlorobenzene-d5	17.95	117	238511	50.00	UG/L	0.00

System Monitoring Compounds						%Recovery
18) 1,2-Dichloroethane-d4	12.10	65	138052	57.80	UG/L	115.61%
34) Toluene-d8	15.28	98	234660	47.45	UG/L	94.90%
43) Bromofluorobenzene	20.11	95	234328	51.87	UG/L	103.74%

Target Compounds

Qvalue

(#) = qualifier out of range (m) = manual integration

P05473.D CLPS.M Thu Feb 06 10:31:58 1997 MASSPEC1

Page 1

V 0007

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\P05473.D
Acq On : 24 Jan 97 16:45
Sample : 9702022
Misc : B60208 H5970-3 1/24/97 5.0G

Vial: 13
Operator: GLENN
Inst : 5970 - In
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\CLPS.M
Title : VOA CLP WATER METHOD
Library : NBS75K.L

No Library Search Compounds Detected

V 0068

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B60209

A6SP-01
(45'-47')

Lab Name: H2M LABS INC. Contract: C003180
Lab Code: 10478 Case No.: RA096 SAS No.: _____ SDG No.: 0121
Matrix: (soil/water) SOIL Lab Sample ID: 9702023
Sample wt/vol: 5.0 (g/ml) G Lab File ID: P05474.D
Level: (low/med) LOW Date Received: 01/23/97
% Moisture: not dec. 6.7 Date Analyzed: 01/24/97
GC Column: RTX502 ID: 0.53 (mm) Dilution Factor: 1.0
Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

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

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

B60209

Lab Name: H2M LABS INC. Contract: C003180
Lab Code: 10478 Case No.: RA096 SAS No.: _____ SDG No.: 0121
Matrix: (soil/water) SOIL Lab Sample ID: 9702023
Sample wt/vol: 5.0 (g/ml) G Lab File ID: P05474.D
Level: (low/med) LOW Date Received: 01/23/97
% Moisture: not dec. 6.7 Date Analyzed: 01/24/97
GC Column: RTX502 ID: 0.53 (mm) Dilution Factor: 1.0
Soil Extract Volume: 1 (uL) Soil Aliquot Volume: 1 (uL)

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

Number TICs found: 0

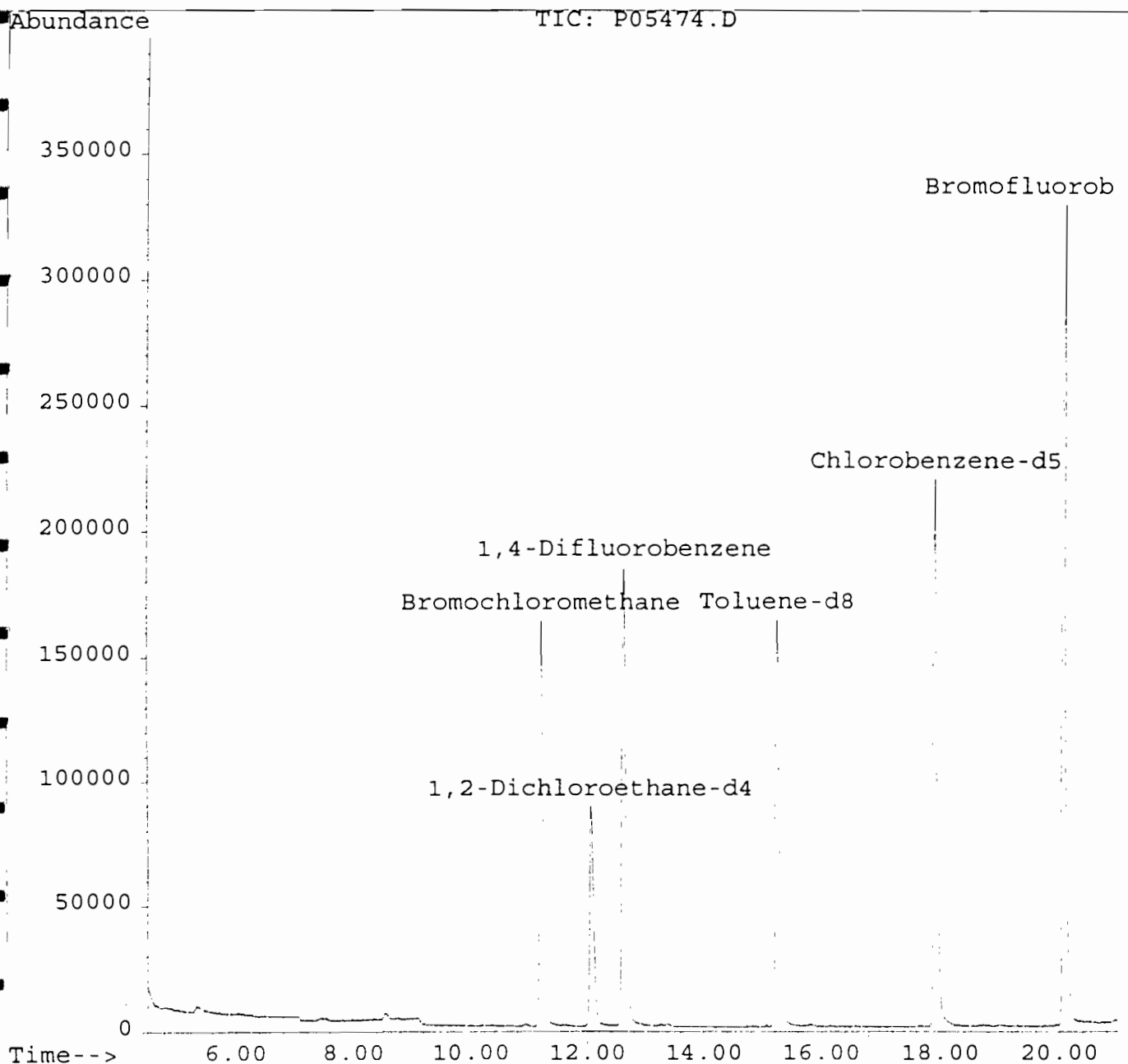
CAS NO.	COMPOUND	RT	EST. CONC.	Q

Quantitation Report

Data File : C:\HPCHEM\1\DATA\P05474.D
 Acq On : 24 Jan 97 5:16 pm
 Sample : 9702023
 Misc : B60209 H5970-3 1/24/97 5.0G
 Quant Time: Feb 5 11:00 1997

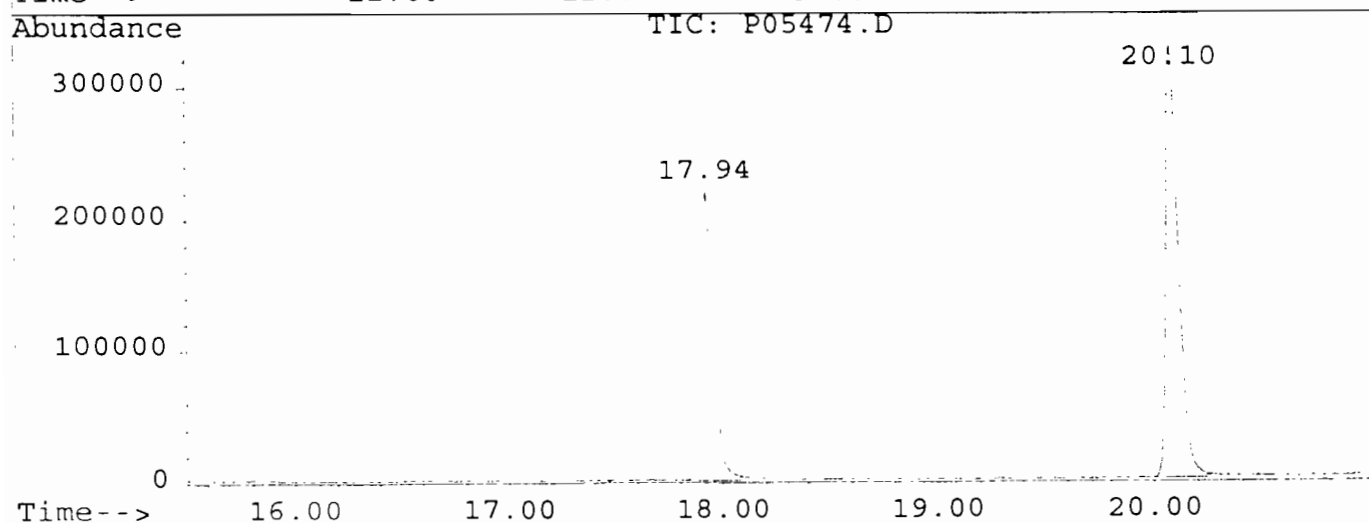
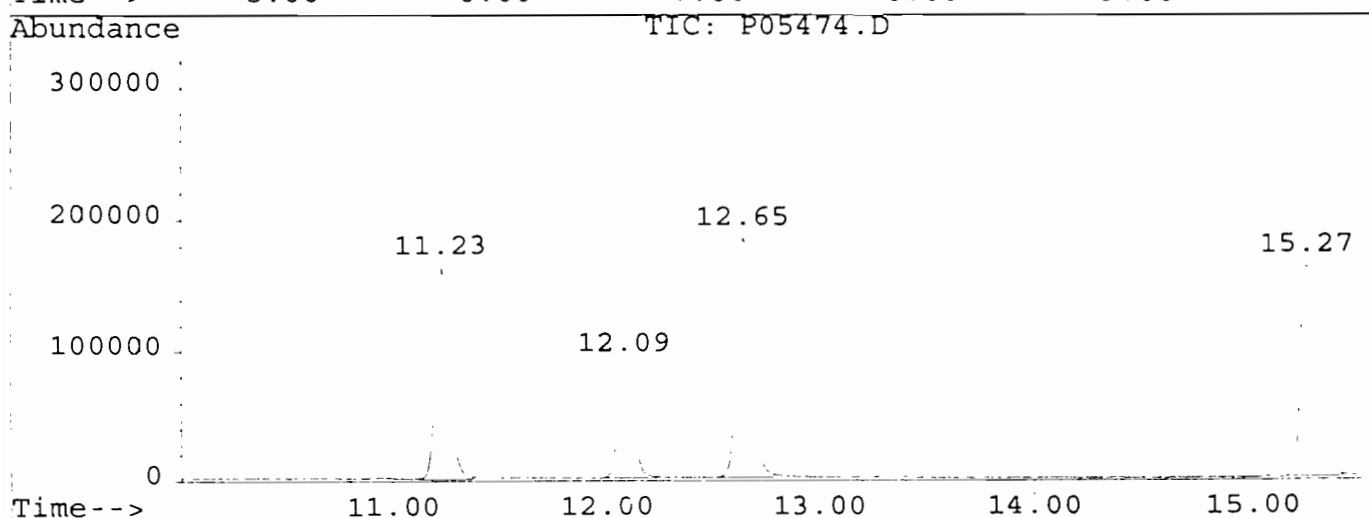
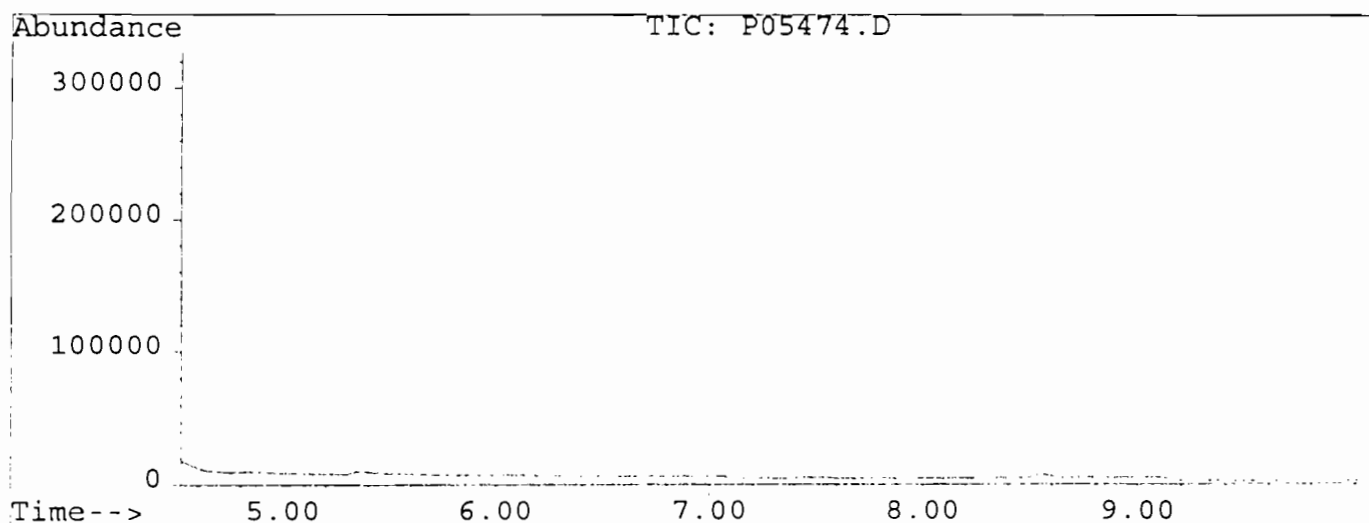
Vial: 14
 Operator: GLENN
 Inst : 5970 - In
 Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\CLPS.M
 Title : VOA CLP WATER METHOD
 Last Update : Wed Feb 05 12:46:55 1997
 Response via : Single Level Calibration



V 0071

File : C:\HPCHEM\1\DATA\P05474.D
Operator : GLENN
Acquired : 24 Jan 97 17:16 using AcqMethod CLPS
Instrument : 5970 - In
Sample Name: 9702023
Misc Info : B60209 H5970-3 1/24/97 5.0G
Vial Number: 14



V 0072

Quantitation Report

Data File : C:\HPCHEM\1\DATA\P05474.D
Acq On : 24 Jan 97 17:16
Sample : 9702023
Misc : B60209 H5970-3 1/24/97 5.0G
Quant Time: Feb 5 11:00 1997

Vial: 14
Operator: GLENN
Inst : 5970 - In
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\CLPS.M
Title : VOA CLP WATER METHOD
Last Update : Fri Jan 24 10:47:18 1997
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\P05461.D

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	11.24	128	93603	50.00	UG/L	-0.03
21) 1,4-Difluorobenzene	12.65	114	324434	50.00	UG/L	-0.04
33) Chlorobenzene-d5	17.94	117	267940	50.00	UG/L	-0.02

System Monitoring Compounds					%Recovery
18) 1,2-Dichloroethane-d4	12.09	65	158053	56.03 UG/L	112.07%
34) Toluene-d8	15.27	98	264193	47.55 UG/L	95.10%
43) Bromofluorobenzene	20.10	95	262216	51.67 UG/L	103.34%

Target Compounds

Qvalue

(#) = qualifier out of range (m) = manual integration

P05474.D CLPS.M

Thu Feb 06 10:32:15 1997

MASSPEC1

Page 1

V 0073

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\P05474.D
Acq On : 24 Jan 97 17:16
Sample : 9702023
Misc : B60209 H5970-3 1/24/97 5.0G

Vial: 14
Operator: GLENN
Inst : 5970 - In
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\CLPS.M
Title : VOA CLP WATER METHOD
Library : NBS75K.L

No Library Search Compounds Detected

V 007.1

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B60210

Lab Name: H2M LABS INC. Contract: C003180
 Lab Code: 10478 Case No.: RA096 SAS No.: _____ SDG No.: 0121
 Matrix: (soil/water) SOIL Lab Sample ID: 9702024
 Sample wt/vol: 5.0 (g/ml) G Lab File ID: P05475.D
 Level: (low/med) LOW Date Received: 01/23/97
 % Moisture: not dec. 2.4 Date Analyzed: 01/24/97
 GC Column: RTX502 ID: 0.53 (mm) Dilution Factor: 1.0
 Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

A6SP-01
(10'-12')

CONCENTRATION UNITS:

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

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

B60210

Lab Name: H2M LABS INC. Contract: C003180
Lab Code: 10478 Case No.: RA096 SAS No.: _____ SDG No.: 0121
Matrix: (soil/water) SOIL Lab Sample ID: 9702024
Sample wt/vol: 5.0 (g/ml) G Lab File ID: P05475.D
Level: (low/med) LOW Date Received: 01/23/97
% Moisture: not dec. 2.4 Date Analyzed: 01/24/97
GC Column: RTX502 ID: 0.53 (mm) Dilution Factor: 1.0
Soil Extract Volume: 1 (uL) Soil Aliquot Volume: 1 (uL)

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

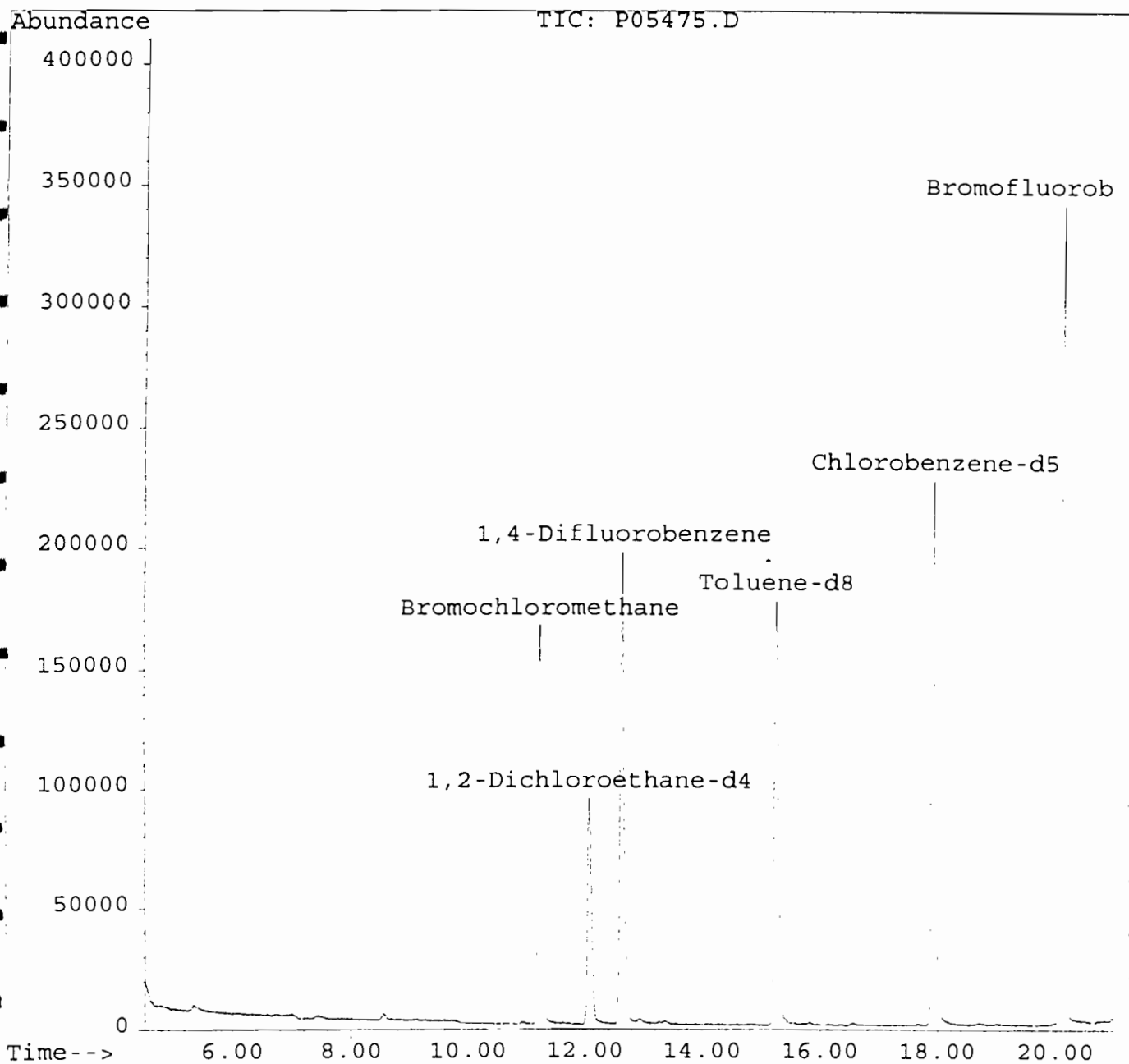
Number TICs found: 0

CAS NO.	COMPOUND	RT	EST. CONC.	Q

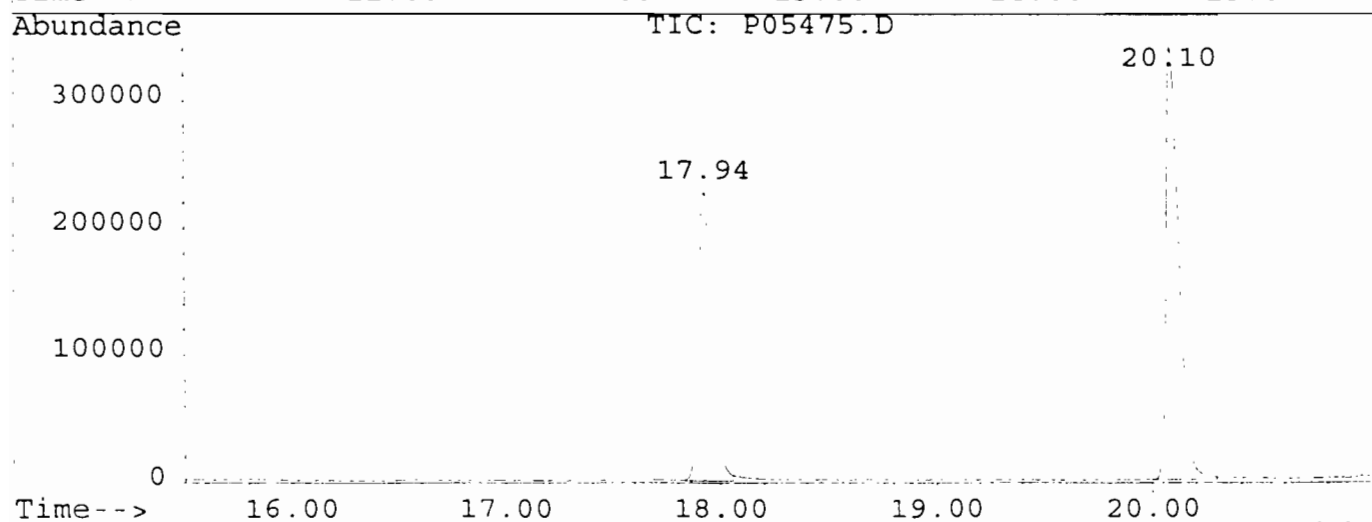
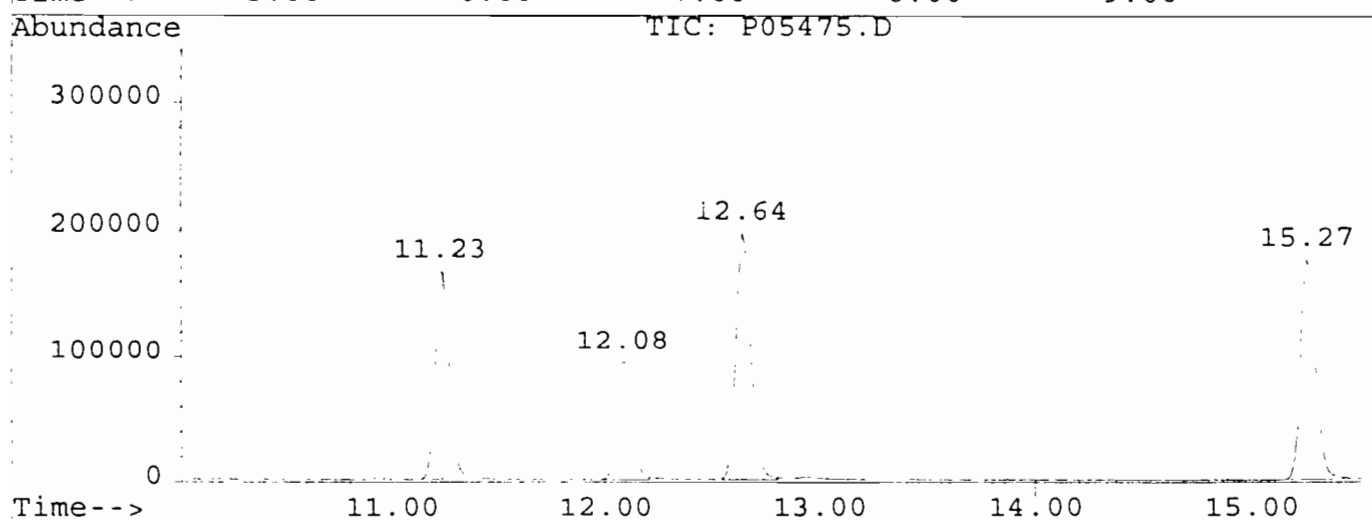
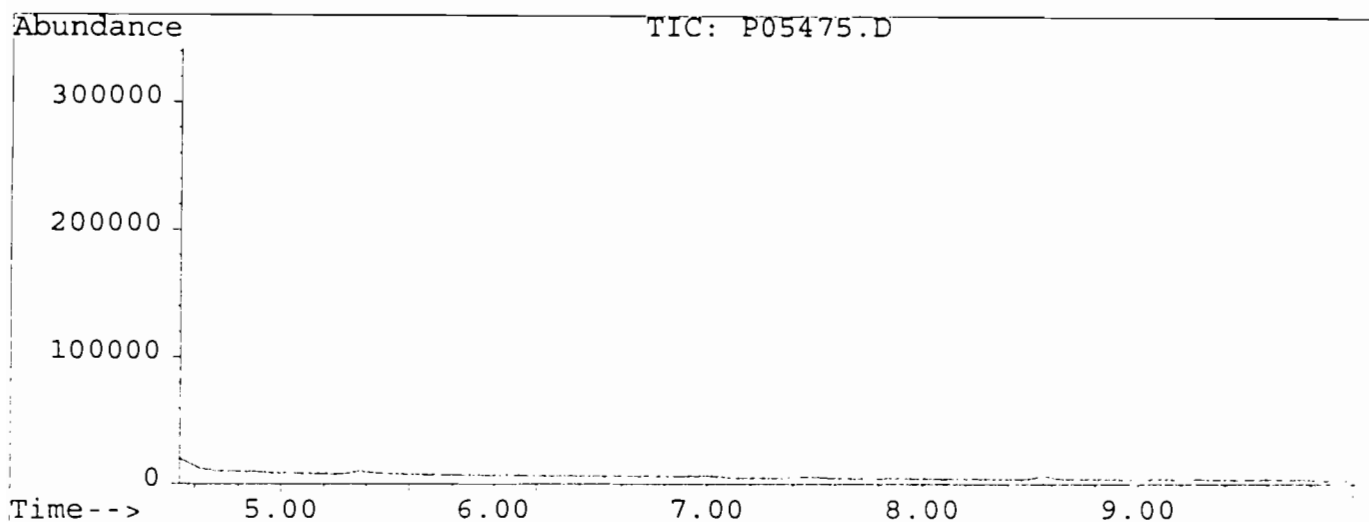
Data File : C:\HPCHEM\1\DATA\P05475.D
Acq On : 24 Jan 97 5:47 pm
Sample : 9702024
Misc : B60210 H5970-3 1/24/97 5.0G
Quant Time: Jan 24 18:12 1997

Vial: 15
Operator: GLENN
Inst : 5970 - In
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\CLPS.M
Title : VOA CLP WATER METHOD
Last Update : Wed Feb 05 12:46:55 1997
Response via : Single Level Calibration



File : C:\HPCHEM\1\DATA\P05475.D
Operator : GLENN
Acquired : 24 Jan 97 17:47 using AcqMethod CLPS
Instrument : 5970 - In
Sample Name: 9702024
Misc Info : B60210 H5970-3 1/24/97 5.0G
Vial Number: 15



V-0075

Data File : C:\HPCHEM\1\DATA\P05475.D
 Acq On : 24 Jan 97 17:47
 Sample : 9702024
 Misc : B60210 H5970-3 1/24/97 5.0G
 Quant Time: Jan 24 18:12 1997

Vial: 15
 Operator: GLENN
 Inst : 5970 - In
 Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\CLPS.M
 Title : VOA CLP WATER METHOD
 Last Update : Fri Jan 24 10:47:18 1997
 Response via : Continuing Cal File: C:\HPCHEM\1\DATA\P05461.D

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	11.24	128	101427	50.00	UG/L	-0.03
21) 1,4-Difluorobenzene	12.64	114	339721	50.00	UG/L	-0.04
33) Chlorobenzene-d5	17.94	117	281026	50.00	UG/L	-0.02

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	%Recovery
18) 1,2-Dichloroethane-d4	12.09	65	171546	56.13	UG/L	112.25%
34) Toluene-d8	15.27	98	280752	48.18	UG/L	96.36%
43) Bromofluorobenzene	20.11	95	274579	51.59	UG/L	103.17%

Target Compounds Qvalue

 (#) = qualifier out of range (m) = manual integration

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\P05475.D
Acq On : 24 Jan 97 17:47
Sample : 9702024
Misc : B60210 H5970-3 1/24/97 5.0G

Vial: 15
Operator: GLENN
Inst : 5970 - In
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\CLPS.M
Title : VOA CLP WATER METHOD
Library : NBS75K.L

No Library Search Compounds Detected

V 0050

H2M LABS, INC.

III. STANDARD DATA PACKAGE FOR VOLATILE ORGANICS

- A. INITIAL CALIBRATION FORM
- B. STANDARD GC/MS CHROMATOGRAMS
- C. DATA SYSTEM REPORT
- D. CONTINUING CALIBRATION FORM
- E. STANDARD GC/MS CHROMATOGRAMS
- F. DATA SYSTEM REPORT

6A
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: H2M LABS INC. Contract: C003180
 Lab Code: 10478 Case No.: RA096 SAS No.: SDG No.: 0121
 Instrument ID: H5970-3 Calibration Date(s): 12/31/96 12/31/96
 Heated Purge (Y/N): Y Calibration Times: 13:23 15:27
 GC Column: RTX502.2 ID: 0.53 (mm)

LAB FILE ID: RRF10 = P05325.D RRF20 = P05326.D
 RRF50 = P05327.D RRF100 = P05328.D RRF200 = P05329.D

COMPOUND	RRF10	RRF20	RRF50	RRF100	RRF200	RRF	% RSD
Chloromethane	1.244	1.004	1.023	1.000	1.035	1.061	9.7
Bromomethane *	2.151	1.704	1.765	1.762	1.780	1.832	9.9 *
Vinyl Chloride *	1.496	1.103	1.089	1.044	0.962	1.139	18.2 *
Chloroethane	0.976	0.790	0.820	0.818	0.815	0.844	8.9
Methylene Chloride	1.705	1.534	1.469	1.510	1.473	1.538	6.3
Acetone	0.441	0.479	0.455	0.440	0.392	0.441	7.3
Carbon Disulfide	4.996	4.095	4.253	4.250	4.007	4.320	9.1
1,1-Dichloroethene *	1.852	1.414	1.470	1.497	1.342	1.515	13.0 *
1,1-Dichloroethane *	3.215	2.829	2.893	2.967	2.674	2.916	6.8 *
1,2-Dichloroethene (total)	1.980	1.577	1.616	1.644	1.458	1.655	11.8
Chloroform *	3.915	3.499	3.612	3.734	3.412	3.634	5.5 *
1,2-Dichloroethane *	2.002	2.016	1.941	2.062	1.888	1.982	3.4 *
2-Butanone	0.483	0.565	0.507	0.534	0.477	0.513	7.2
1,1,1-Trichloroethane *	0.914	0.900	0.912	0.934	0.859	0.904	3.1 *
Carbon Tetrachloride *	0.843	0.854	0.867	0.903	0.791	0.852	4.8 *
Bromodichloromethane *	0.963	1.147	1.153	1.195	1.098	1.111	8.1 *
1,2-Dichloropropane	0.402	0.450	0.448	0.457	0.438	0.439	5.0
cis-1,3-Dichloropropene *	0.527	0.657	0.657	0.694	0.637	0.634	10.0 *
Trichloroethene *	0.554	0.571	0.561	0.588	0.538	0.562	3.3 *
Benzene *	0.873	0.928	0.935	0.939	0.877	0.910	3.6 *
Dibromochloromethane *	0.677	0.914	0.881	0.936	0.890	0.860	12.1 *
trans-1,3-Dichloropropene *	0.429	0.578	0.559	0.597	0.559	0.544	12.2 *
1,1,2-Trichloroethane *	0.382	0.432	0.393	0.421	0.395	0.404	5.2 *
Bromoform *	0.445	0.664	0.615	0.675	0.666	0.613	15.8 *
4-Methyl-2-Pentanone	0.339	0.352	0.301	0.348	0.322	0.332	6.3
2-Hexanone	0.457	0.332	0.279	0.309	0.302	0.336	20.9
Tetrachloroethene *	0.613	0.661	0.665	0.688	0.573	0.640	7.2 *
1,1,2,2-Tetrachloroethane *	0.885	0.912	0.789	0.872	0.821	0.856	5.8 *
Toluene *	1.199	1.250	1.268	1.309	1.145	1.234	5.1 *
Chlorobenzene *	1.127	1.115	1.104	1.138	1.026	1.102	4.0 *
Ethylbenzene *	0.432	0.446	0.440	0.457	0.397	0.434	5.2 *
Styrene *	0.877	0.893	0.910	0.968	0.888	0.907	4.0 *
Xylene (total) *	0.504	0.548	0.533	0.561	0.514	0.532	4.4 *
1,2-Dichloroethane-d4	1.470	1.461	1.343	1.385	1.325	1.397	4.8
Toluene-d8	1.091	1.039	1.045	1.056	1.017	1.050	2.6
Bromofluorobenzene *	0.952	0.900	0.879	0.898	0.905	0.907	3.0 *

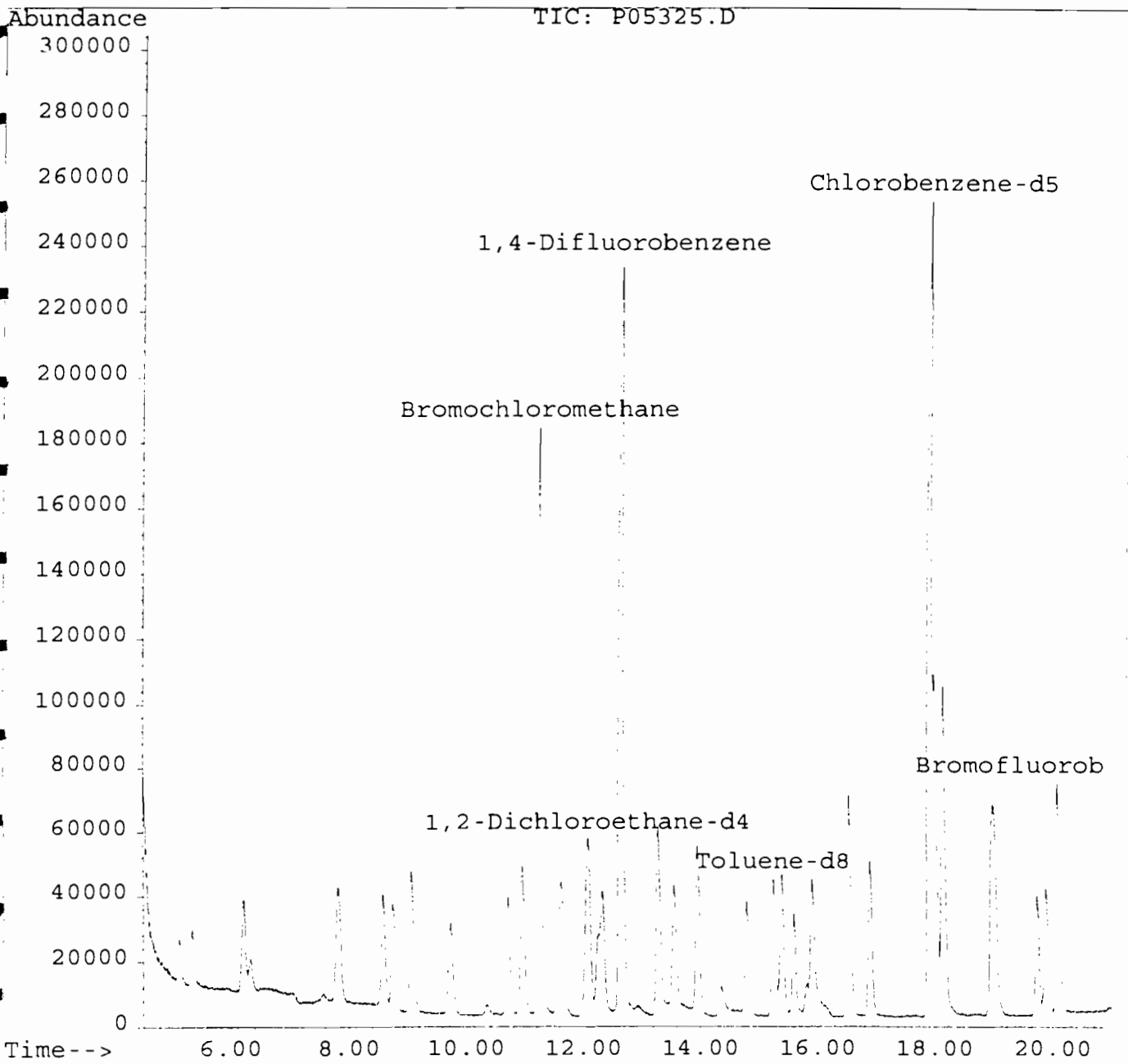
* Compounds with required minimum RRF and maximum %RSD values.
 All other compounds must meet a minimum RRF of 0.010.

V 0052

Data File : C:\HPCHEM\1\DATA\P05325.D
 Acq On : 31 Dec 96 1:23 pm
 Sample : VSTD010
 Misc : H5970-3 12/31/96
 Quant Time: Dec 31 15:58 1996

Vial: 9
 Operator: GLENN
 Inst : 5970 - In
 Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\CLPS.M
 Title : VOA CLP WATER METHOD
 Last Update : Wed Feb 05 12:46:55 1997
 Response via : Single Level Calibration



V 0053

Data File : C:\HPCHEM\1\DATA\P05325.D
 Acq On : 31 Dec 96 13:23
 Sample : VSTD010
 Misc : H5970-3 12/31/96
 Quant Time: Dec 31 15:58 1996

Vial: 9
 Operator: GLENN
 Inst : 5970 - In
 Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\CLPS.M
 Title : VOA CLP WATER METHOD
 Last Update : Tue Jun 18 12:50:01 1996
 Response via : Continuing Cal File: C:\HPCHEM\1\DATA\P03777.D

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	11.26	128	109163	50.00	UG/L	0.14
21) 1,4-Difluorobenzene	12.65	114	423386	50.00	UG/L	0.13
33) Chlorobenzene-d5	17.92	117	317725	50.00	UG/L	0.16

System Monitoring Compounds					%Recovery
18) 1,2-Dichloroethane-d4	12.10	65	32096	8.71	UG/L
34) Toluene-d8	15.25	98	69294	10.38	UG/L
43) Bromofluorobenzene	20.09	95	60489	9.31	UG/L

Target Compounds					Qvalue
2) Chloromethane	5.14	50	27169	33.50	UG/L 93
3) Vinyl Chloride	5.36	62	32669	23.24	UG/L 98
4) Bromomethane	6.21	94	46967	17.97	UG/L 95
5) Chloroethane	6.33	64	21301	20.13	UG/L 98
6) 1,1-Dichloroethene	7.82	96	40433m	18.14	UG/L 89
7) Carbon Disulfide	8.75	76	109078	42.60	UG/L 95
8) Acetone	7.56	43	9624	7.38	UG/L 98
9) Methylene Chloride	8.59	84	37213	13.35	UG/L 95
13) trans-1,2-Dichloroethene	9.08	96	39750	15.15	UG/L 97
14) cis-,1,2-Dichloroethene	10.71	96	36965	10.79	UG/L 89
15) 1,2-Dichloroethene (total)	9.08	96	86466m	28.02	UG/L 94
16) 1,1-Dichloroethane	9.74	63	70186	12.47	UG/L 92
17) Chloroform	10.96	83	85468	9.19	UG/L 97
19) 1,2-Dichloroethane	12.25	62	43711	8.53	UG/L 93
20) 2-Butanone	10.36	43	10538	5.99	UG/L 66
22) 1,1,1-Trichloroethane	11.63	97	77433	7.94	UG/L 95
23) Carbon Tetrachloride	12.07	117	71387	7.38	UG/L 96
24) Trichloroethene	13.29	130	46897	8.95	UG/L 95
25) Benzene	12.34	78	73918	10.68	UG/L 99
26) 1,2-Dichloropropane	13.56	63	34007	9.80	UG/L 94
27) Bromodichloromethane	13.96	83	81528	6.52	UG/L 99
28) cis-1,3-Dichloropropene	14.79	75	44612	7.58	UG/L 96
29) trans-1,3-Dichloropropene	15.61	75	36316	6.33	UG/L 95
30) 1,1,2-Trichloroethane	15.92	97	32338	7.35	UG/L 90
31) Dibromochloromethane	16.91	129	57357	4.94	UG/L 96
32) Bromoform	19.74	173	37687	4.11	UG/L 98
35) 4-Methyl-2-Pentanone	14.36	43	21513	7.02	UG/L 99
36) Toluene	15.41	91	76212	9.79	UG/L 98
37) Tetrachloroethene	16.55	164	38938	8.94	UG/L 95
38) 2-Hexanone	15.81	43	29009m	9.13	UG/L 90
39) Chlorobenzene	18.00	112	71626	8.96	UG/L 84
40) Ethylbenzene	18.03	106	27455	8.86	UG/L # 88
41) Xylene (total)	18.97	106	32035	8.22	UG/L # 86

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\P05325.D
Acq On : 31 Dec 96 13:23
Sample : VSTD010
Misc : H5970-3 12/31/96
Quant Time: Dec 31 15:58 1996

Vial: 9
Operator: GLENN
Inst : 5970 - In
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\CLPS.M
Title : VOA CLP WATER METHOD
Last Update : Tue Jun 18 12:50:01 1996
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\P03777.D

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
42) Styrene	19.03	104	55713	7.96	UG/L	98
44) m/p-Xylene	18.16	106	68209	17.87	UG/L	94
45) 1,1,2,2-Tetrachloroethane	19.89	83	56257	8.17	UG/L	93

V 0055

(#) = qualifier out of range (m) = manual integration

P05325.D CLPS.M

Thu Feb 06 10:20:51 1997

MASSPEC1

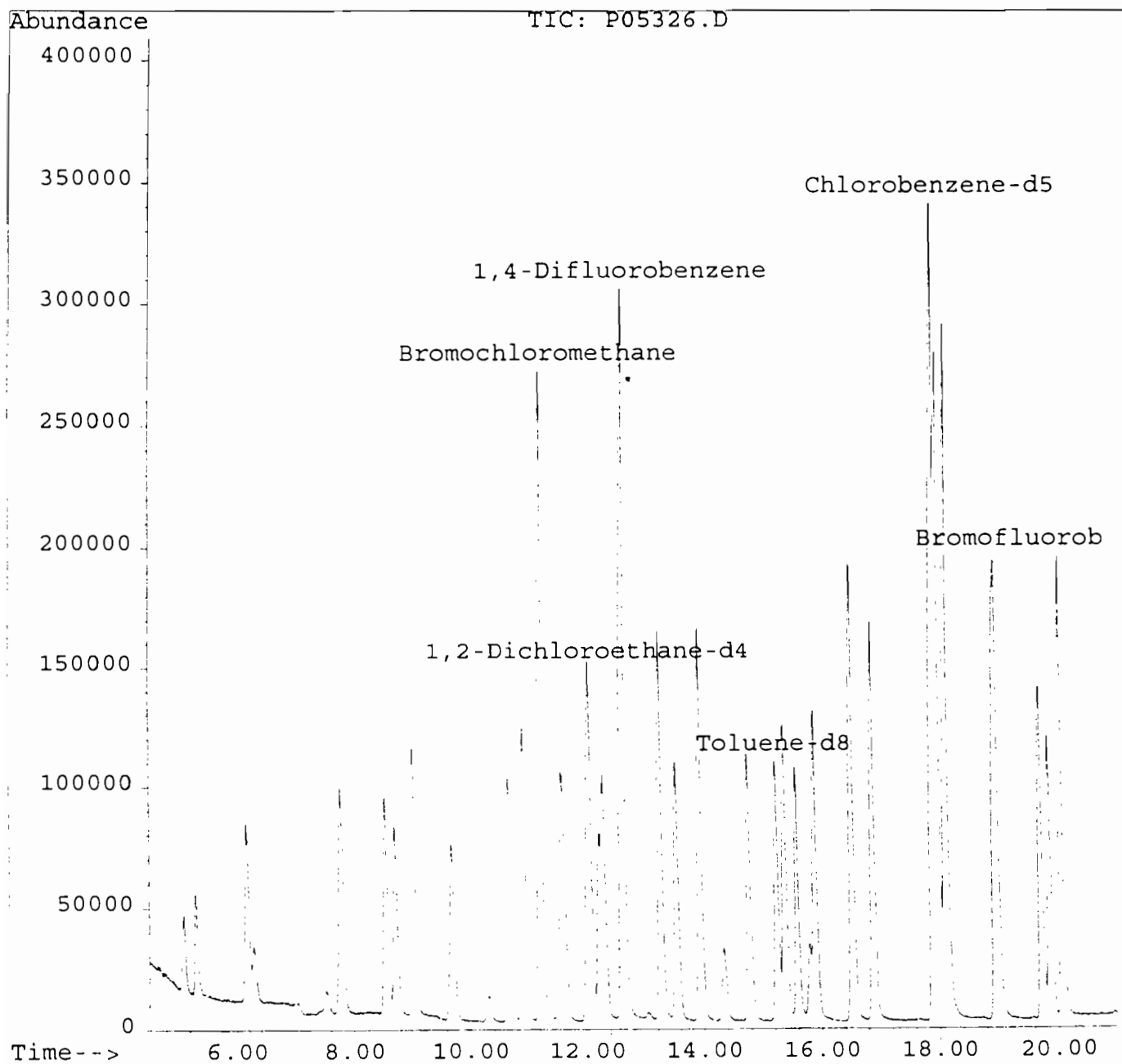
Page 2

Quantitation Report

Data File : C:\HPCHEM\1\DATA\P05326.D
Acq On : 31 Dec 96 1:54 pm
Sample : VSTD020
Misc : H5970-3 12/31/96
Quant Time: Dec 31 15:25 1996

Vial: 10
Operator: GLENN
Inst : 5970 - In
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\CLPS.M
Title : VOA CLP WATER METHOD
Last Update : Wed Feb 05 12:46:55 1997
Response via : Single Level Calibration



V 0056

Quantitation Report

Data File : C:\HPCHEM\1\DATA\P05326.D
 Acq On : 31 Dec 96 13:54
 Sample : VSTD020
 Misc : H5970-3 12/31/96
 Quant Time: Dec 31 15:25 1996

Vial: 10
 Operator: GLENN
 Inst : 5970 - In
 Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\CLPS.M
 Title : VOA CLP WATER METHOD
 Last Update : Tue Jun 18 12:50:01 1996
 Response via : Continuing Cal File: C:\HPCHEM\1\DATA\P03777.D

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	11.22	128	165771	50.00	UG/L	0.10
21) 1,4-Difluorobenzene	12.63	114	544949	50.00	UG/L	0.11
33) Chlorobenzene-d5	17.92	117	432788	50.00	UG/L	0.16

System Monitoring Compounds					%Recovery
18) 1,2-Dichloroethane-d4	12.08	65	96880	17.31	UG/L
34) Toluene-d8	15.25	98	179910	19.78	UG/L
43) Bromofluorobenzene	20.08	95	155838	17.61	UG/L

Target Compounds					Qvalue
2) Chloromethane	5.12	50	66596	54.07	UG/L 93
3) Vinyl Chloride	5.32	62	73154	34.27	UG/L 99
4) Bromomethane	6.17	94	113004	28.47	UG/L 97
5) Chloroethane	6.29	64	52362	32.59	UG/L 100
6) 1,1-Dichloroethene	7.79	96	93785	27.71	UG/L 90
7) Carbon Disulfide	8.72	76	271517	69.82	UG/L 97
8) Acetone	7.53	43	31781	16.04	UG/L 89
9) Methylene Chloride	8.56	84	101725	24.03	UG/L 97
13) trans-1,2-Dichloroethene	9.04	96	98189	24.65	UG/L 94
14) cis-,1,2-Dichloroethene	10.68	96	102471	19.71	UG/L 91
15) 1,2-Dichloroethene (total)	10.68	96	209107m	44.63	UG/L 91
16) 1,1-Dichloroethane	9.71	63	187565	21.95	UG/L 94
17) Chloroform	10.94	83	232008	16.42	UG/L 94
19) 1,2-Dichloroethane	12.24	62	133674	17.17	UG/L 96
20) 2-Butanone	10.32	43	37466	14.03	UG/L 97
22) 1,1,1-Trichloroethane	11.60	97	196074	15.62	UG/L 94
23) Carbon Tetrachloride	12.04	117	186113	14.95	UG/L 91
24) Trichloroethene	13.27	130	124399	18.44	UG/L 97
25) Benzene	12.30	78	202353	22.72	UG/L 98
26) 1,2-Dichloropropane	13.54	63	97992	21.94	UG/L 95
27) Bromodichloromethane	13.95	83	250008	15.53	UG/L 98
28) cis-1,3-Dichloropropene	14.78	75	143214	18.90	UG/L 96
29) trans-1,3-Dichloropropene	15.59	75	125875	17.06	UG/L 95
30) 1,1,2-Trichloroethane	15.91	97	94066	16.60	UG/L 94
31) Dibromochloromethane	16.90	129	199214	13.34	UG/L 99
32) Bromoform	19.74	173	144770	12.25	UG/L 97
35) 4-Methyl-2-Pentanone	14.35	43	60999	14.62	UG/L 93
36) Toluene	15.39	91	216400	20.41	UG/L 98
37) Tetrachloroethene	16.55	164	114448	19.30	UG/L 91
38) 2-Hexanone	15.81	43	57477	13.29	UG/L 93
39) Chlorobenzene	17.99	112	193003	17.73	UG/L 85
40) Ethylbenzene	18.02	106	77149	18.28	UG/L 93
41) Xylene (total)	18.97	106	94926	17.88	UG/L 97

(#) = qualifier out of range (m) = manual integration

P05326.D CLPS.M

Thu Feb 06 10:21:04 1997

MASSPEC1

Page 1

V 0082

Data File : C:\HPCHEM\1\DATA\P05326.D
Acq On : 31 Dec 96 13:54
Sample : VSTD020
Misc : H5970-3 12/31/96
Quant Time: Dec 31 15:25 1996

Vial: 10
Operator: GLENN
Inst : 5970 - In
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\CLPS.M
Title : VOA CLP WATER METHOD
Last Update : Tue Jun 18 12:50:01 1996
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\P03777.D

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
42) Styrene	19.02	104	154616	16.21	UG/L	95
44) m/p-Xylene	18.15	106	186624	35.90	UG/L	94
45) 1,1,2,2-Tetrachloroethane	19.89	83	157818	16.82	UG/L	92

-----V-0055
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\P05327.D

Acq On : 31 Dec 96 2:25 pm

Sample : VSTD050

Misc : H5970-3 12/31/96

Quant Time: Dec 31 15:26 1996

Vial: 11

Operator: GLENN

Inst : 5970 - In

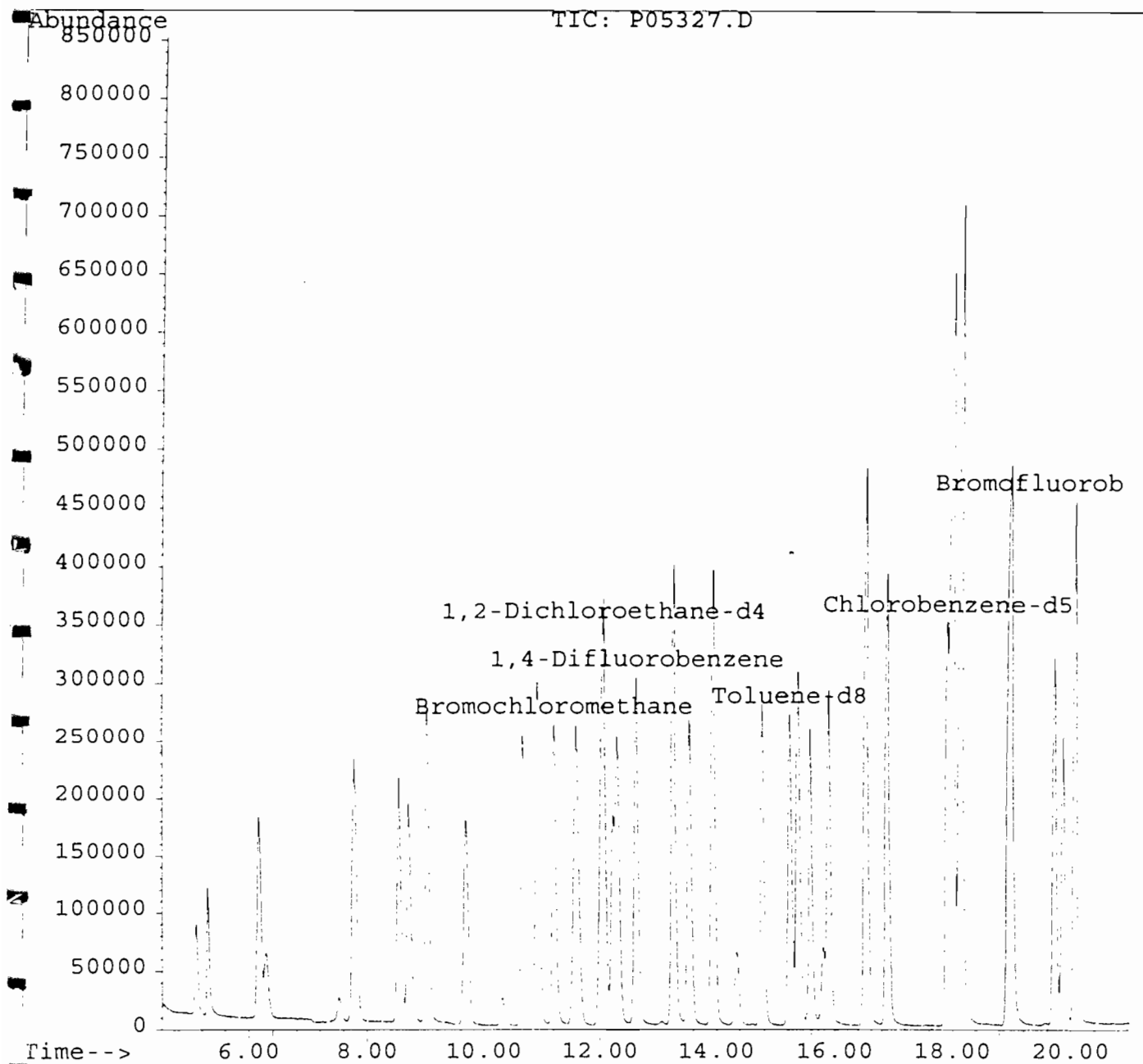
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\CLPS.M

Title : VOA CLP WATER METHOD

Last Update : Wed Feb 05 12:46:55 1997

Response via : Single Level Calibration



V 0053

Quantitation Report

Data File : C:\HPCHEM\1\DATA\P05327.D
 Acq On : 31 Dec 96 14:25
 Sample : VSTD050
 Misc : H5970-3 12/31/96
 Quant Time: Dec 31 15:26 1996

Vial: 11
 Operator: GLENN
 Inst : 5970 - In
 Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\CLPS.M
 Title : VOA CLP WATER METHOD
 Last Update : Tue Jun 18 12:50:01 1996
 Response via : Continuing Cal File: C:\HPCHEM\1\DATA\P03777.D

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	11.22	128	160031	50.00	UG/L	0.11
21) 1,4-Difluorobenzene	12.64	114	543573	50.00	UG/L	0.12
33) Chlorobenzene-d5	17.91	117	426386	50.00	UG/L	0.15

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	%Recovery
18) 1,2-Dichloroethane-d4	12.08	65	214961	39.79	UG/L	
34) Toluene-d8	15.25	98	445738	49.75	UG/L	
43) Bromofluorobenzene	20.09	95	374832	42.99	UG/L	#

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Chloromethane	5.12	50	163743	137.71	UG/L	93
3) Vinyl Chloride	5.32	62	174221	84.54	UG/L	99
4) Bromomethane	6.17	94	282476	73.72	UG/L	98
5) Chloroethane	6.30	64	131232	84.60	UG/L	99
6) 1,1-Dichloroethene	7.79	96	235264	72.00	UG/L	# 86
7) Carbon Disulfide	8.73	76	680574	181.29	UG/L	96
8) Acetone	7.52	43	72851	38.09	UG/L	90
9) Methylene Chloride	8.56	84	235103	57.54	UG/L	99
13) trans-1,2-Dichloroethene	9.04	96	250025	65.02	UG/L	96
14) cis-,1,2-Dichloroethene	10.68	96	257229	51.24	UG/L	90
15) 1,2-Dichloroethene (total)	9.04	96	517169m	114.33	UG/L	91
16) 1,1-Dichloroethane	9.70	63	462925	56.13	UG/L	92
17) Chloroform	10.93	83	578022	42.39	UG/L	94
19) 1,2-Dichloroethane	12.22	62	310688	41.34	UG/L	96
20) 2-Butanone	10.33	43	81206	31.51	UG/L	96
22) 1,1,1-Trichloroethane	11.60	97	495768	39.61	UG/L	94
23) Carbon Tetrachloride	12.04	117	471511	37.97	UG/L	93
24) Trichloroethene	13.27	130	305092	45.34	UG/L	97
25) Benzene	12.30	78	508057	57.20	UG/L	99
26) 1,2-Dichloropropane	13.55	63	243355	54.62	UG/L	94
27) Bromodichloromethane	13.94	83	626644	39.03	UG/L	98
28) cis-1,3-Dichloropropene	14.78	75	357066	47.24	UG/L	96
29) trans-1,3-Dichloropropene	15.60	75	303749	41.26	UG/L	95
30) 1,1,2-Trichloroethane	15.91	97	213720	37.82	UG/L	94
31) Dibromochloromethane	16.91	129	478838	32.14	UG/L	98
32) Bromoform	19.73	173	334238	28.36	UG/L	98
35) 4-Methyl-2-Pentanone	14.35	43	128448	31.25	UG/L	97
36) Toluene	15.38	91	540683	51.76	UG/L	98
37) Tetrachloroethene	16.54	164	283683	48.55	UG/L	99
38) 2-Hexanone	15.81	43	119153	27.95	UG/L	98
39) Chlorobenzene	17.99	112	470848	43.90	UG/L	87
40) Ethylbenzene	18.02	106	187463	45.07	UG/L	# 81
41) Xylene (total)	18.97	106	227434	43.49	UG/L	# 77

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\P05327.D
 Acq On : 31 Dec 96 14:25
 Sample : VSTD050
 Misc : H5970-3 12/31/96
 Quant Time: Dec 31 15:26 1996

Vial: 11
 Operator: GLENN
 Inst : 5970 - In
 Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\CLPS.M
 Title : VOA CLP WATER METHOD
 Last Update : Tue Jun 18 12:50:01 1996
 Response via : Continuing Cal File: C:\HPCHEM\1\DATA\P03777.D

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
42) Styrene	19.01	104	388085	41.31	UG/L	92
44) m/p-Xylene	18.15	106	472616	92.27	UG/L	91
45) 1,1,2,2-Tetrachloroethane	19.88	83	336208	36.38	UG/L	91

-(#) = qualifier out of range (m) = manual integration

P05327.D CLPS.M

Thu Feb 06 10:21:20 1997

MASSPEC1

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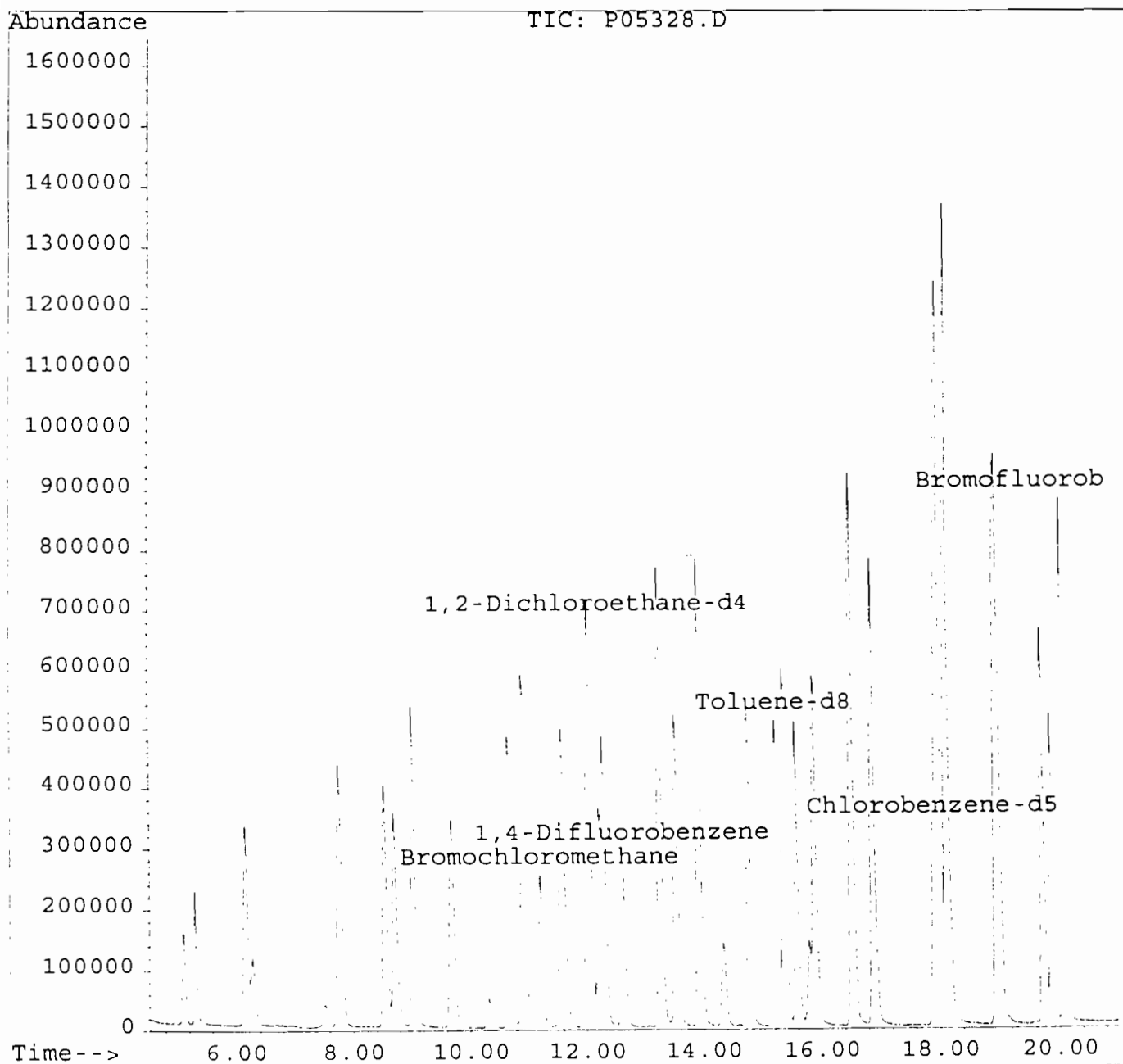
V 001

Quantitation Report

Data File : C:\HPCHEM\1\DATA\P05328.D
 Acq On : 31 Dec 96 2:56 pm
 Sample : VSTD100
 Misc : H5970-3 12/31/96
 Quant Time: Dec 31 15:27 1996

Vial: 12
 Operator: GLENN
 Inst : 5970 - In
 Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\CLPS.M
 Title : VOA CLP WATER METHOD
 Last Update : Wed Feb 05 12:46:55 1997
 Response via : Single Level Calibration



Quantitation Report

Data File : C:\HPCHEM\1\DATA\P05328.D

Acq On : 31 Dec 96 14:56

Sample : VSTD100

Misc : H5970-3 12/31/96

Quant Time: Dec 31 15:27 1996

Vial: 12

Operator: GLENN

Inst : 5970 - In

Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\CLPS.M

Title : VOA CLP WATER METHOD

Last Update : Tue Jun 18 12:50:01 1996

Response via : Continuing Cal File: C:\HPCHEM\1\DATA\P03777.D

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	11.22	128	153530	50.00	UG/L	0.11
21) 1,4-Difluorobenzene	12.62	114	515151	50.00	UG/L	0.11
33) Chlorobenzene-d5	17.91	117	400942	50.00	UG/L	0.15

System Monitoring Compounds

%Recovery

18) 1,2-Dichloroethane-d4	12.07	65	425320	82.07	UG/L
34) Toluene-d8	15.25	98	847130	100.55	UG/L
43) Bromofluorobenzene	20.08	95	720083	87.84	UG/L

Target Compounds

Qvalue

2) Chloromethane	5.12	50	306958	269.09	UG/L	94
3) Vinyl Chloride	5.31	62	320675	162.20	UG/L	100
4) Bromomethane	6.16	94	540918	147.14	UG/L	98
5) Chloroethane	6.28	64	251025	168.68	UG/L	98
6) 1,1-Dichloroethene	7.78	96	459625	146.63	UG/L	89
7) Carbon Disulfide	8.72	76	1305109	362.38	UG/L	95
8) Acetone	7.53	43	135040	73.60	UG/L	91
9) Methylene Chloride	8.55	84	463576	118.25	UG/L	95
13) trans-1,2-Dichloroethene	9.03	96	486625	131.90	UG/L	96
14) cis-,1,2-Dichloroethene	10.67	96	507760	105.43	UG/L	92
15) 1,2-Dichloroethene (total)	10.67	96	1009753m	232.68	UG/L	97
16) 1,1-Dichloroethane	9.69	63	911138	115.14	UG/L	96
17) Chloroform	10.92	83	1146559	87.64	UG/L	93
19) 1,2-Dichloroethane	12.22	62	633046	87.80	UG/L	93
20) 2-Butanone	10.31	43	164103	66.37	UG/L	97
22) 1,1,1-Trichloroethane	11.59	97	961876	81.08	UG/L	97
23) Carbon Tetrachloride	12.04	117	930523	79.06	UG/L	94
24) Trichloroethene	13.27	130	605692	94.99	UG/L	95
25) Benzene	12.30	78	966958	114.87	UG/L	99
26) 1,2-Dichloropropane	13.53	63	470744	111.48	UG/L	94
27) Bromodichloromethane	13.94	83	1231089	80.91	UG/L	98
28) cis-1,3-Dichloropropene	14.78	75	714759	99.77	UG/L	97
29) trans-1,3-Dichloropropene	15.59	75	615207	88.18	UG/L	94
30) 1,1,2-Trichloroethane	15.90	97	434107	81.06	UG/L	95
31) Dibromochloromethane	16.89	129	964667	68.31	UG/L	95
32) Bromoform	19.73	173	695850	62.31	UG/L	99
35) 4-Methyl-2-Pentanone	14.35	43	279042	72.19	UG/L	96
36) Toluene	15.38	91	1049404	106.83	UG/L	98
37) Tetrachloroethene	16.54	164	551491	100.37	UG/L	99
38) 2-Hexanone	15.80	43	247368	61.72	UG/L	98
39) Chlorobenzene	17.99	112	912723	90.50	UG/L	88
40) Ethylbenzene	18.02	106	366224	93.64	UG/L #	80
41) Xylene (total)	18.97	106	449495	91.41	UG/L #	84

(#) = qualifier out of range (m) = manual integration

P05328.D CLPS.M

Thu Feb 06 10:21:33 1997

MASSPEC1

Page 1

V 0005

Quantitation Report

Data File : C:\HPCHEM\1\DATA\P05328.D
 Acq On : 31 Dec 96 14:56
 Sample : VSTD100
 Misc : H5970-3 12/31/96
 Quant Time: Dec 31 15:27 1996

Vial: 12
 Operator: GLENN
 Inst : 5970 - In
 Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\CLPS.M
 Title : VOA CLP WATER METHOD
 Last Update : Tue Jun 18 12:50:01 1996
 Response via : Continuing Cal File: C:\HPCHEM\1\DATA\P03777.D

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
42) Styrene	19.02	104	775922	87.83	UG/L	93
44) m/p-Xylene	18.15	106	914717	189.92	UG/L	95
45) 1,1,2,2-Tetrachloroethane	19.88	83	699283	80.47	UG/L	95

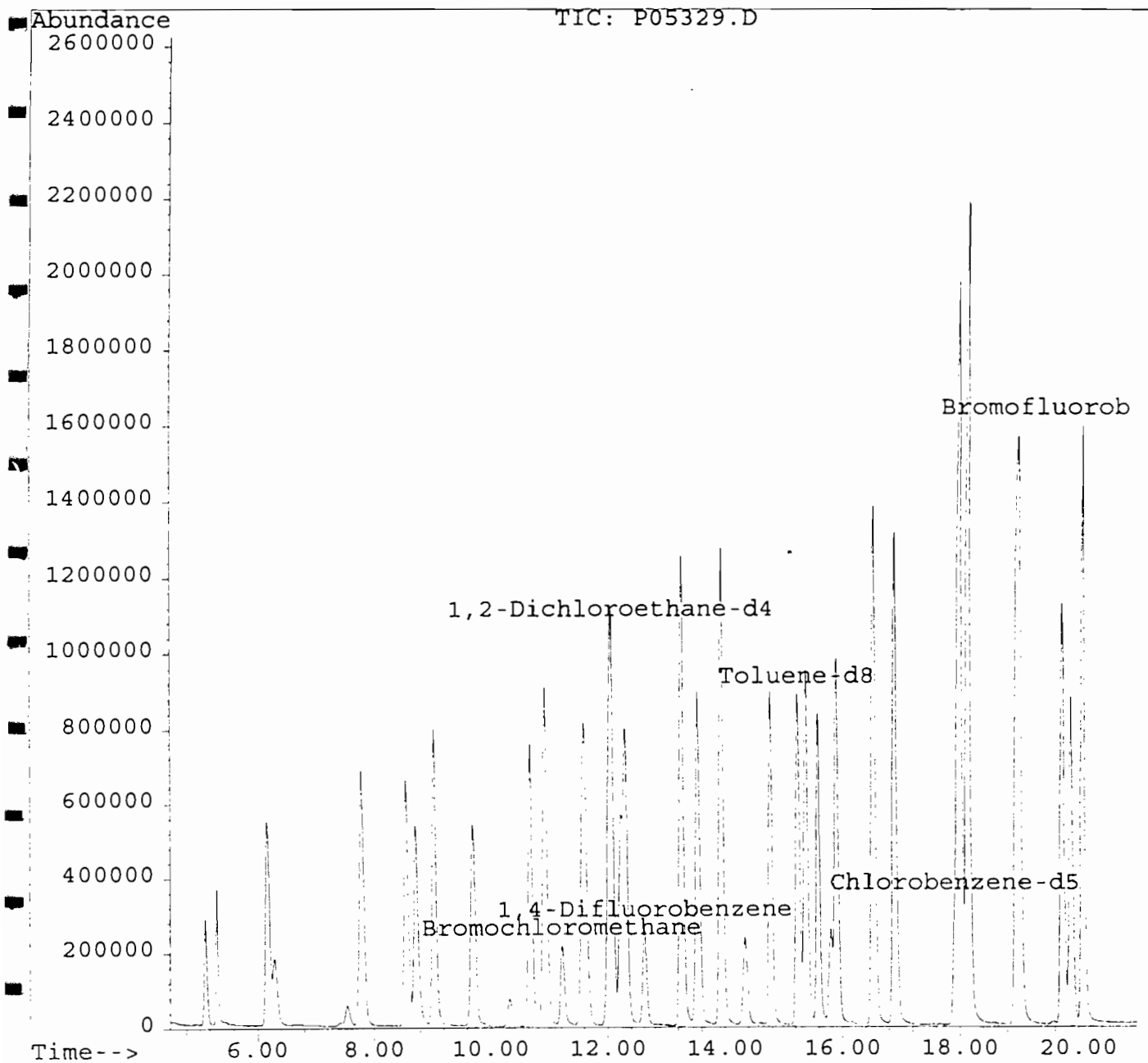
 (#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\P05329.D
Acq On : 31 Dec 96 3:27 pm
Sample : VSTD200
Misc : H5970-3 12/31/96
Quant Time: Dec 31 15:54 1996

Vial: 13
Operator: GLENN
Inst : 5970 - In
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\CLPS.M
Title : VOA CLP WATER METHOD
Last Update : Wed Feb 05 12:46:55 1997
Response via : Single Level Calibration



Quantitation Report

Data File : C:\HPCHEM\1\DATA\P05329.D
 Acq On : 31 Dec 96 15:27
 Sample : VSTD200
 Misc : H5970-3 12/31/96
 Quant Time: Dec 31 15:54 1996

Vial: 13
 Operator: GLENN
 Inst : 5970 - In
 Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\CLPS.M
 Title : VOA CLP WATER METHOD
 Last Update : Tue Jun 18 12:50:01 1996
 Response via : Continuing Cal File: C:\HPCHEM\1\DATA\P05327.D

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	11.22	128	130356	50.00	UG/L	0.11
21) 1,4-Difluorobenzene	12.64	114	462132	50.00	UG/L	0.12
33) Chlorobenzene-d5	17.91	117	364829	50.00	UG/L	0.15
System Monitoring Compounds				%Recovery		
18) 1,2-Dichloroethane-d4	12.08	65	690794	157.00	UG/L	
34) Toluene-d8	15.25	98	1483978	193.57	UG/L	
43) Bromofluorobenzene	20.08	95	1320691	177.05	UG/L	
Target Compounds				Qvalue		
2) Chloromethane	5.13	50	539905	557.43	UG/L	93
3) Vinyl Chloride	5.33	62	501691	298.87	UG/L	100
4) Bromomethane	6.17	94	927896	297.27	UG/L	99
5) Chloroethane	6.30	64	424956	336.32	UG/L	97
6) 1,1-Dichloroethene	7.79	96	699768	262.92	UG/L	# 88
7) Carbon Disulfide	8.73	76	2089241	683.23	UG/L	94
8) Acetone	7.55	43	204154	131.06	UG/L	88
9) Methylene Chloride	8.57	84	767869	230.69	UG/L	93
13) trans-1,2-Dichloroethene	9.05	96	731493	233.52	UG/L	97
14) cis-,1,2-Dichloroethene	10.68	96	768317	187.89	UG/L	92
15) 1,2-Dichloroethene (total)	10.68	96	1520793m	412.74	UG/L	94
16) 1,1-Dichloroethane	9.70	63	1394477	207.55	UG/L	97
17) Chloroform	10.94	83	1778880	160.14	UG/L	95
19) 1,2-Dichloroethane	12.23	62	984221	160.78	UG/L	95
20) 2-Butanone	10.32	43	248637	118.44	UG/L	96
22) 1,1,1-Trichloroethane	11.60	97	1586964	149.13	UG/L	96
23) Carbon Tetrachloride	12.05	117	1463009	138.57	UG/L	89
24) Trichloroethene	13.26	130	993648	173.71	UG/L	96
25) Benzene	12.31	78	1621637	214.74	UG/L	99
26) 1,2-Dichloropropane	13.55	63	810012	213.84	UG/L	94
27) Bromodichloromethane	13.95	83	2028675	148.63	UG/L	96
28) cis-1,3-Dichloropropene	14.78	75	1177066	183.16	UG/L	96
29) trans-1,3-Dichloropropene	15.59	75	1033739	165.16	UG/L	93
30) 1,1,2-Trichloroethane	15.91	97	729180	151.79	UG/L	95
31) Dibromochloromethane	16.91	129	1645590	129.90	UG/L	100
32) Bromoform	19.74	173	1230643	122.84	UG/L	98
35) 4-Methyl-2-Pentanone	14.35	43	469585	133.50	UG/L	95
36) Toluene	15.39	91	1671037	186.95	UG/L	97
37) Tetrachloroethene	16.54	164	836252	167.26	UG/L	99
38) 2-Hexanone	15.81	43	440020	120.65	UG/L	96
39) Chlorobenzene	17.98	112	1497326	163.16	UG/L	94
40) Ethylbenzene	18.02	106	579355	162.81	UG/L	# 77
41) Xylene (total)	18.96	106	750039	167.63	UG/L	90

(#) = qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\P05329.D
 Acq On : 31 Dec 96 15:27
 Sample : VSTD200
 Misc : H5970-3 12/31/96
 Quant Time: Dec 31 15:54 1996

Vial: 13
 Operator: GLENN
 Inst : 5970 - In
 Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\CLPS.M
 Title : VOA CLP WATER METHOD
 Last Update : Tue Jun 18 12:50:01 1996
 Response via : Continuing Cal File: C:\HPCHEM\1\DATA\P05327.D

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
42) Styrene	19.01	104	1296307	161.26	UG/L	95
44) m/p-Xylene	18.15	106	1499552	342.16	UG/L	93
45) 1,1,2,2-Tetrachloroethane	19.88	83	1198209	151.53	UG/L	97

(#) = qualifier out of range (m) = manual integration

P05329.D CLPS.M Thu Feb 06 10:28:20 1997 MASSPEC1

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V 0097

7A
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: H2M LABS INC. Contract: C003180
 Lab Code: 10478 Case No.: RA096 SAS No.: _____ SDG No.: 0121
 Instrument ID: H5970-3 Calibration Date: 01/24/97 Time: 10:19
 Lab File ID: P05461.D Init. Calib. Date(s): 12/31/96 12/31/96
 Heated Purge: (Y/N) Y Init. Calib. Times: 13:23 15:27
 GC Column: RTX502.2 ID: 0.53 (mm)

COMPOUND	RRF	RRF50	MIN RRF	% D	MAX % D
Chloromethane	1.061	1.066		-0.4	
Bromomethane	1.832	1.988	0.100	-8.5	25.0
Vinyl Chloride	1.139	1.253	0.100	-10.0	25.0
Chloroethane	0.844	1.013		-20.1	
Methylene Chloride	1.538	1.814		-18.0	
Acetone	0.441	0.542		-22.8	
Carbon Disulfide	4.320	5.124		-18.6	
1,1-Dichloroethene	1.515	1.824	0.100	-20.4	25.0
1,1-Dichloroethane	2.916	3.426	0.200	-17.5	25.0
1,2-Dichloroethene (total)	1.655	2.003		-21.0	
Chloroform	3.634	4.512	0.200	-24.1	25.0
1,2-Dichloroethane	1.982	2.358	0.100	-19.0	25.0
2-Butanone	0.513	0.599		-16.7	
1,1,1-Trichloroethane	0.904	1.069	0.100	-18.3	25.0
Carbon Tetrachloride	0.852	1.045	0.100	-22.7	25.0
Bromodichloromethane	1.111	1.292	0.200	-16.3	25.0
1,2-Dichloropropane	0.439	0.472		-7.5	
cis-1,3-Dichloropropene	0.634	0.717	0.200	-13.0	25.0
Trichloroethene	0.562	0.625	0.300	-11.3	25.0
Benzene	0.910	1.020	0.500	-12.1	25.0
Dibromochloromethane	0.860	0.939	0.100	-9.3	25.0
trans-1,3-Dichloropropene	0.544	0.613	0.100	-12.6	25.0
1,1,2-Trichloroethane	0.404	0.425	0.100	-5.0	25.0
Bromoform	0.613	0.648	0.100	-5.7	25.0
4-Methyl-2-Pentanone	0.332	0.312		6.2	
2-Hexanone	0.336	0.315		6.1	
Tetrachloroethene	0.640	0.732	0.200	-14.4	25.0
1,1,2,2-Tetrachloroethane	0.856	0.859	0.500	-0.3	25.0
Toluene	1.234	1.380	0.400	-11.8	25.0
Chlorobenzene	1.102	1.237	0.500	-12.3	25.0
Ethylbenzene	0.434	0.478	0.100	-10.0	25.0
Styrene	0.907	0.979	0.300	-7.9	25.0
Xylene (total)	0.532	0.585	0.300	-9.9	25.0
1,2-Dichloroethane-d4	1.397	1.507		-7.9	
Toluene-d8	1.050	1.037		1.2	
Bromofluorobenzene	0.907	0.947	0.200	-4.4	25.0

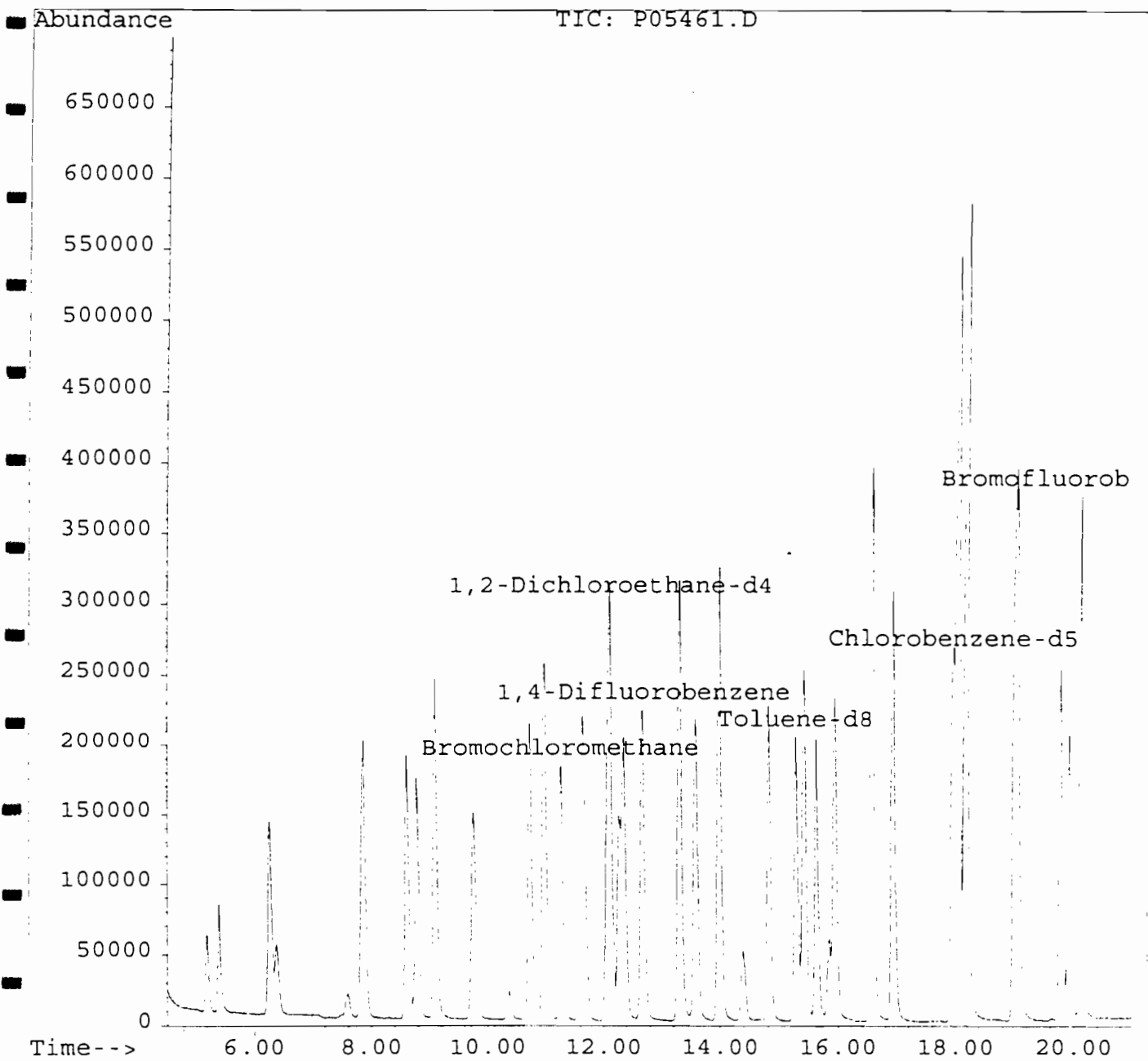
All other compounds must meet a minimum RRF of 0.010.

Quantitation Report

Data File : C:\HPCHEM\1\DATA\P05461.D
 Acq On : 24 Jan 97 10:19 am
 Sample : VSTD050
 Misc : H5970-3 1/24/97
 Quant Time: Jan 24 10:46 1997

Vial: 1
 Operator: GLENN
 Inst : 5970 - In
 Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\CLPS.M
 Title : VOA CLP WATER METHOD
 Last Update : Wed Feb 05 12:46:55 1997
 Response via : Single Level Calibration



Data File : C:\HPCHEM\1\DATA\P05461.D
 Acq On : 24 Jan 97 10:19
 Sample : VSTD050
 Misc : H5970-3 1/24/97
 Quant Time: Jan 24 10:46 1997

Vial: 1
 Operator: GLENN
 Inst : 5970 - In
 Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\CLPS.M
 Title : VOA CLP WATER METHOD
 Last Update : Mon Jan 20 11:51:41 1997
 Response via : Continuing Cal File: C:\HPCHEM\1\DATA\P05425.D

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	11.27	128	109635	50.00	UG/L	-0.03
21) 1,4-Difluorobenzene	12.68	114	392211	50.00	UG/L	-0.04
33) Chlorobenzene-d5	17.96	117	313283	50.00	UG/L	-0.04

System Monitoring Compounds						%Recovery
18) 1,2-Dichloroethane-d4	12.12	65	165189	51.44	UG/L	102.88%
34) Toluene-d8	15.29	98	324802	50.83	UG/L	101.65%
43) Bromofluorobenzene	20.13	95	296686	51.81	UG/L	103.62%

Target Compounds						Qvalue
2) Chloromethane	5.20	50	116817	50.37	UG/L	92
3) Vinyl Chloride	5.41	62	137420	52.54	UG/L	100
4) Bromomethane	6.26	94	217977	56.62	UG/L	98
5) Chloroethane	6.38	64	111087	56.35	UG/L	100
6) 1,1-Dichloroethene	7.87	96	199957	56.77	UG/L	# 85
7) Carbon Disulfide	8.79	76	561779	55.96	UG/L	94
8) Acetone	7.59	43	59404	46.82	UG/L	89
9) Methylene Chloride	8.62	84	198903	55.66	UG/L	97
13) trans-1,2-Dichloroethene	9.11	96	215635	57.67	UG/L	95
14) cis-,1,2-Dichloroethene	10.73	96	214436	55.45	UG/L	89
15) 1,2-Dichloroethene (total)	9.11	96	439239m	112.53	UG/L	90
16) 1,1-Dichloroethane	9.77	63	375607	54.02	UG/L	94
17) Chloroform	10.98	83	494623	56.27	UG/L	94
19) 1,2-Dichloroethane	12.28	62	258530	51.79	UG/L	93
20) 2-Butanone	10.37	43	65689	46.57	UG/L	96
22) 1,1,1-Trichloroethane	11.65	97	419111	55.92	UG/L	94
23) Carbon Tetrachloride	12.11	117	409913	56.67	UG/L	93
24) Trichloroethene	13.31	130	245316	53.66	UG/L	94
25) Benzene	12.36	78	400195	50.45	UG/L	97
26) 1,2-Dichloropropane	13.59	63	184937	48.97	UG/L	92
27) Bromodichloromethane	13.99	83	506665	53.37	UG/L	98
28) cis-1,3-Dichloropropene	14.83	75	281153	50.93	UG/L	94
29) trans-1,3-Dichloropropene	15.64	75	240322	49.55	UG/L	97
30) 1,1,2-Trichloroethane	15.96	97	166562	48.98	UG/L	94
31) Dibromochloromethane	16.95	129	368409	50.03	UG/L	99
32) Bromoform	19.79	173	254163	48.09	UG/L	97
35) 4-Methyl-2-Pentanone	14.39	43	97687	42.48	UG/L	93
36) Toluene	15.43	91	432399	52.38	UG/L	100
37) Tetrachloroethene	16.59	164	229451	53.31	UG/L	99
38) 2-Hexanone	15.84	43	98713	45.33	UG/L	94
39) Chlorobenzene	18.03	112	387658	52.61	UG/L	89
40) Ethylbenzene	18.07	106	149606	52.16	UG/L	# 74
41) Xylene (total)	19.02	106	183223	52.16	UG/L	# 88

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\P05461.D
 Acq On : 24 Jan 97 10:19
 Sample : VSTD050
 Misc : H5970-3 1/24/97
 Quant Time: Jan 24 10:46 1997

Vial: 1
 Operator: GLENN
 Inst : 5970 - In
 Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\CLPS.M
 Title : VOA CLP WATER METHOD
 Last Update : Mon Jan 20 11:51:41 1997
 Response via : Continuing Cal File: C:\HPCHEM\1\DATA\P05425.D

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
42) Styrene	19.06	104	306703	51.59	UG/L	92
44) m/p-Xylene	18.20	106	381644	106.06	UG/L	95
45) 1,1,2,2-Tetrachloroethane	19.93	83	268944	46.91	UG/L	94

(#) = qualifier out of range (m) = manual integration

P05461.D CLPS.M Thu Feb 06 10:28:36 1997 MASSPEC1

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V 0101

7A
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: H2M LABS INC. Contract: C003180
 Lab Code: 10478 Case No.: RA096 SAS No.: _____ SDG No.: 0121
 Instrument ID: H5970-3 Calibration Date: 02/05/97 Time: 12:13
 Lab File ID: P05558.D Init. Calib. Date(s): 12/31/96 12/31/96
 Heated Purge: (Y/N) Y Init. Calib. Times: 13:23 15:27
 GC Column: RTX502.2 ID: 0.53 (mm)

COMPOUND	RRF	RRF50	MIN RRF	% D	MAX % D
Chloromethane	1.061	0.918		13.5	
Bromomethane	1.832	1.911	0.100	-4.3	25.0
Vinyl Chloride	1.139	1.145	0.100	-0.5	25.0
Chloroethane	0.844	0.918		-8.8	
Methylene Chloride	1.538	1.819		-18.2	
Acetone	0.441	0.619		-40.2	
Carbon Disulfide	4.320	4.859		-12.5	
1,1-Dichloroethene	1.515	1.776	0.100	-17.2	25.0
1,1-Dichloroethane	2.916	3.531	0.200	-21.1	25.0
1,2-Dichloroethene (total)	1.655	1.963		-18.6	
Chloroform	3.634	4.765	0.200	-31.1	25.0
1,2-Dichloroethane	1.982	2.493	0.100	-25.8	25.0
2-Butanone	0.513	0.665		-29.6	
1,1,1-Trichloroethane	0.904	1.079	0.100	-19.4	25.0
Carbon Tetrachloride	0.852	1.052	0.100	-23.5	25.0
Bromodichloromethane	1.111	1.342	0.200	-20.7	25.0
1,2-Dichloropropane	0.439	0.473		-7.8	
cis-1,3-Dichloropropene	0.634	0.712	0.200	-12.2	25.0
Trichloroethene	0.562	0.623	0.300	-10.8	25.0
Benzene	0.910	0.990	0.500	-8.7	25.0
Dibromochloromethane	0.860	0.998	0.100	-16.1	25.0
trans-1,3-Dichloropropene	0.544	0.618	0.100	-13.6	25.0
1,1,2-Trichloroethane	0.404	0.432	0.100	-6.8	25.0
Bromoform	0.613	0.707	0.100	-15.3	25.0
4-Methyl-2-Pentanone	0.332	0.313		5.8	
2-Hexanone	0.336	0.316		5.9	
Tetrachloroethene	0.640	0.694	0.200	-8.5	25.0
1,1,2,2-Tetrachloroethane	0.856	0.857	0.500	-0.1	25.0
Toluene	1.234	1.250	0.400	-1.3	25.0
Chlorobenzene	1.102	1.146	0.500	-3.9	25.0
Ethylbenzene	0.434	0.448	0.100	-3.1	25.0
Styrene	0.907	0.915	0.300	-0.9	25.0
Xylene (total)	0.532	0.541	0.300	-1.7	25.0
1,2-Dichloroethane-d4	1.397	1.592		-13.9	
Toluene-d8	1.050	0.952		9.3	
Bromofluorobenzene	0.907	1.005	0.200	-10.8	25.0

All other compounds must meet a minimum RRF of 0.010.

Quantitation Report

Data File : C:\HPCHEM\1\DATA\P05558.D
 Acq On : 5 Feb 97 12:13
 Sample : VSTD050
 Misc : H5970-3 2/5/97
 Quant Time: Feb 5 12:45 1997

Vial: 1
 Operator: GLENN
 Inst : 5970 - In
 Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\CLPS.M
 Title : VOA CLP WATER METHOD
 Last Update : Fri Jan 31 12:12:47 1997
 Response via : Continuing Cal File: C:\HPCHEM\1\DATA\P05553.D

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev (Min)
1) Bromochloromethane	11.08	128	86431	50.00	UG/L	-0.02
21) 1,4-Difluorobenzene	12.49	114	323663	50.00	UG/L	-0.02
33) Chlorobenzene-d5	17.76	117	276170	50.00	UG/L	-0.02
System Monitoring Compounds				%Recovery		
18) 1,2-Dichloroethane-d4	11.95	65	137572	52.93	UG/L	105.87%
34) Toluene-d8	15.11	98	262808	49.22	UG/L	98.45%
43) Bromofluorobenzene	19.94	95	277460	51.79	UG/L	103.57%
Target Compounds				Qvalue		
2) Chloromethane	5.07	50	79316	46.24	UG/L	96
3) Vinyl Chloride	5.28	62	98917	50.08	UG/L	97
4) Bromomethane	6.11	94	165126	49.24	UG/L	98
5) Chloroethane	6.23	64	79324	48.94	UG/L	98
6) 1,1-Dichloroethene	7.70	96	153485	50.51	UG/L	# 84
7) Carbon Disulfide	8.62	76	419985	53.52	UG/L	92
8) Acetone	7.43	43	53482	54.08	UG/L	90
9) Methylene Chloride	8.44	84	157183	52.93	UG/L	99
13) trans-1,2-Dichloroethene	8.93	96	167590	54.02	UG/L	94
14) cis-,1,2-Dichloroethene	10.55	96	164369	49.35	UG/L	87
15) 1,2-Dichloroethene (total)	8.93	96	339265m	102.52	UG/L	89
16) 1,1-Dichloroethane	9.59	63	305182	51.78	UG/L	96
17) Chloroform	10.80	83	411856	53.40	UG/L	96
19) 1,2-Dichloroethane	12.09	62	215487	53.34	UG/L	93
20) 2-Butanone	10.19	43	57505	54.31	UG/L	96
22) 1,1,1-Trichloroethane	11.46	97	349314	54.65	UG/L	96
23) Carbon Tetrachloride	11.90	117	340522	55.34	UG/L	95
24) Trichloroethene	13.13	130	201556	51.61	UG/L	96
25) Benzene	12.17	78	320334	50.04	UG/L	98
26) 1,2-Dichloropropane	13.40	63	153144	52.49	UG/L	92
27) Bromodichloromethane	13.81	83	434206	55.10	UG/L	98
28) cis-1,3-Dichloropropene	14.64	75	230367	53.91	UG/L	94
29) trans-1,3-Dichloropropene	15.46	75	200108	54.31	UG/L	96
30) 1,1,2-Trichloroethane	15.77	97	139800	54.09	UG/L	91
31) Dibromochloromethane	16.76	129	323159	54.56	UG/L	96
32) Bromoform	19.58	173	228692	55.96	UG/L	99
35) 4-Methyl-2-Pentanone	14.22	43	86476	57.24	UG/L	95
36) Toluene	15.25	91	345327	52.23	UG/L	99
37) Tetrachloroethene	16.40	164	191747	51.91	UG/L	98
38) 2-Hexanone	15.67	43	87180	57.56	UG/L	96
39) Chlorobenzene	17.84	112	316385	52.69	UG/L	84
40) Ethylbenzene	17.87	106	123674	50.98	UG/L	# 78
41) Xylene (total)	18.81	106	149421	51.43	UG/L	# 79

(#) = qualifier out of range (m) = manual integration

P05558.D CLPS.M Thu Feb 06 10:29:20 1997 MASSPEC1

Page 1
V C10.1

Quantitation Report

Data File : C:\HPCHEM\1\DATA\P05558.D
 Acq On : 5 Feb 97 12:13
 Sample : VSTD050
 Misc : H5970-3 2/5/97
 Quant Time: Feb 5 12:45 1997

Vial: 1
 Operator: GLENN
 Inst : 5970 - In
 Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\CLPS.M
 Title : VOA CLP WATER METHOD
 Last Update : Fri Jan 31 12:12:47 1997
 Response via : Continuing Cal File: C:\HPCHEM\1\DATA\P05553.D

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
42) Styrene	18.87	104	252684	53.73	UG/L	92
44) m/p-Xylene	18.01	106	303535	103.57	UG/L #	82
45) 1,1,2,2-Tetrachloroethane	19.73	83	236632	57.22	UG/L	94

(#) = qualifier out of range (m) = manual integration

P05558.D CLPS.M Thu Feb 06 10:29:21 1997 MASSPEC1

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V 0103

H2M LABS, INC.

IV. RAW QC DATA PACKAGE FOR VOLATILE ORGANICS

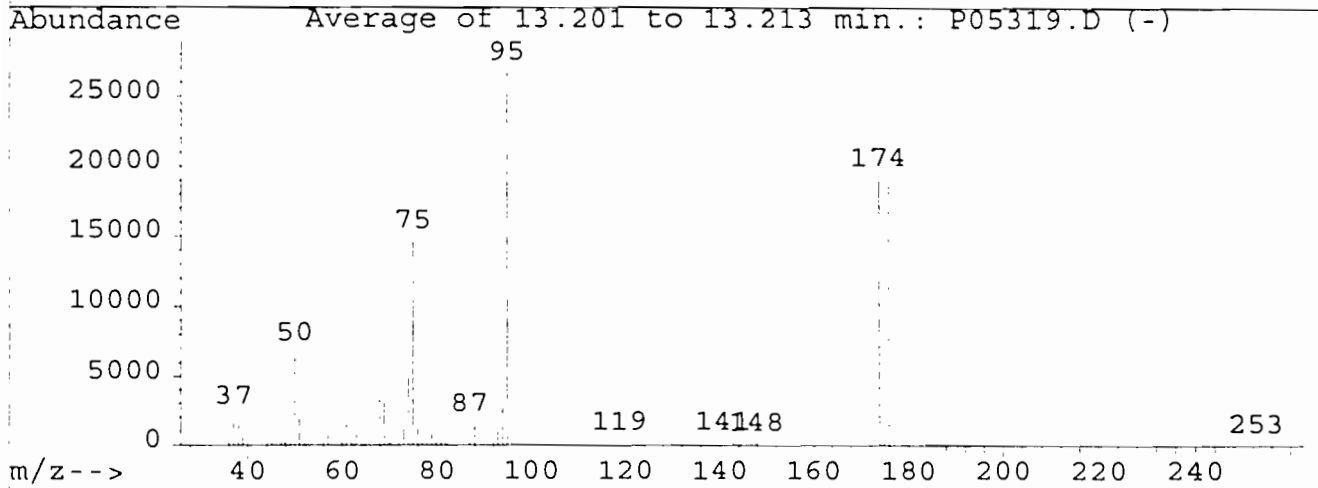
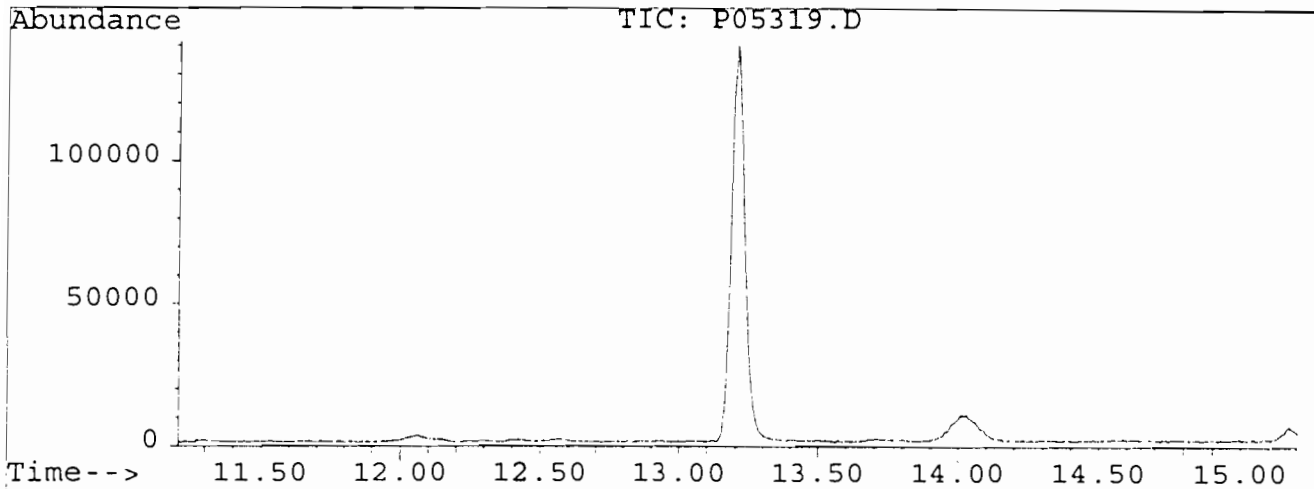
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- B. BLANK
- C. MATRIX SPIKE BLANK
- D. SPIKE AND SPIKE DUPLICATE
- E. COPY OF CALCULATIONS

BFB

Data File : C:\HPCHEM\1\DATA\P05319.D
Acq On : 31 Dec 96 9:05 am
Sample : 50 NG BFB
Misc : H5970-3 12/31/96

Vial: 1
Operator: GLENN
Inst : 5970 - In
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\PUHS.M
Title : 8260 Purgable Organics



Scans Used: 1604 1605 1606 Bkg: 1587

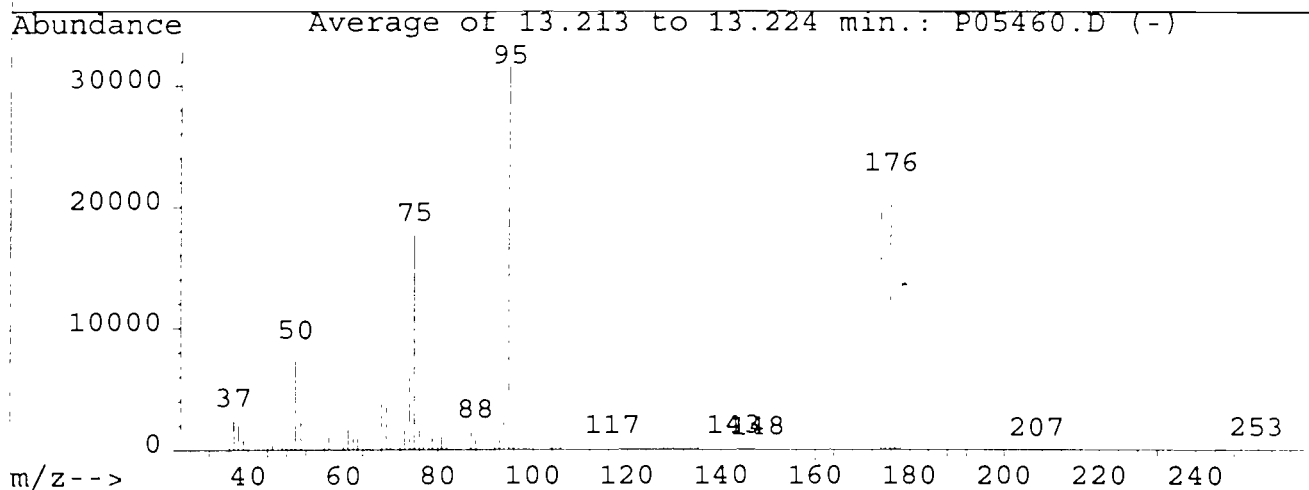
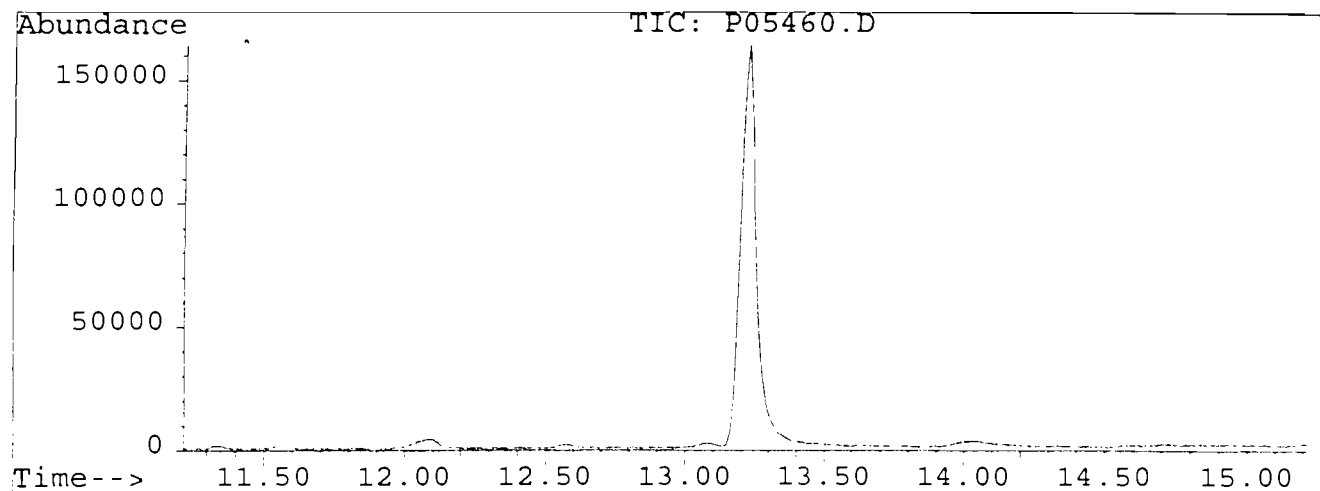
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	23.9	6589	PASS
75	95	30	60	52.9	14581	PASS
95	95	100	100	100.0	27571	PASS
96	95	5	9	7.1	1947	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	69.2	19077	PASS
175	174	5	9	8.0	1529	PASS
176	174	95	101	98.2	18739	PASS
177	176	5	9	6.9	1295	PASS

BFB

Data File : C:\HPCHEM\1\DATA\P05460.D
Acq On : 24 Jan 97 9:11 am
Sample : 50 NG BFB
Misc : H5970-3 1/24/97

Vial: 1
Operator: GLENN
Inst : 5970 - In
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\PUHS.M
Title : 8260 Purgable Organics



Scans Used: 1606 1607 1608 Bkg: 1589

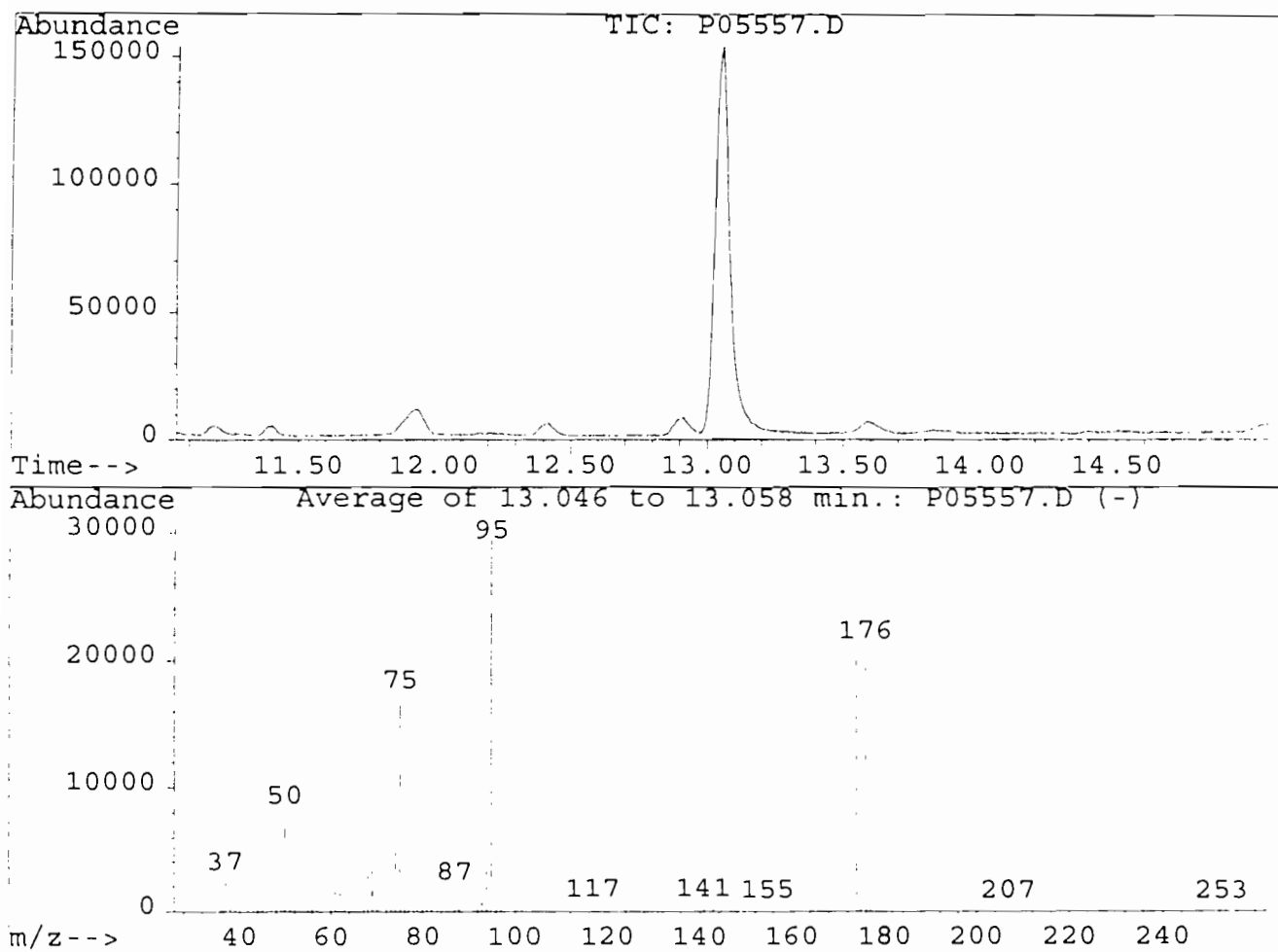
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	25.2	8032	PASS
75	95	30	60	55.6	17680	PASS
95	95	100	100	100.0	31819	PASS
96	95	5	9	7.6	2427	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	68.3	21723	PASS
175	174	5	9	7.4	1603	PASS
176	174	95	101	100.3	21797	PASS
177	176	5	9	6.8	1491	PASS

BFB

Data File : C:\HPCHEM\1\DATA\P05557.D
Acq On : 5 Feb 97 10:17 am
Sample : 50 NG BFB
Misc : H5970-3 2/5/97

Vial: 1
Operator: GLENN
Inst : 5970 - In
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\PUHS.M
Title : 8260 Purgable Organics



Scans Used: 1576 1577 1578 Bkg: 1560

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	26.0	7689	PASS
75	95	30	60	56.9	16798	PASS
95	95	100	100	100.0	29540	PASS
96	95	5	9	7.2	2115	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	69.5	20523	PASS
175	174	5	9	6.4	1317	PASS
176	174	95	101	100.6	20643	PASS
177	176	5	9	6.3	1307	PASS

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBK01

Lab Name: H2M LABS INC. Contract: C003180

Lab Code: 10478 Case No.: RA096 SAS No.: _____ SDG No.: 0121

Matrix: (soil/water) SOIL Lab Sample ID: VBK24

Sample wt/vol: 5.0 (g/ml) G Lab File ID: P05462.D

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. 0 Date Analyzed: 01/24/97

GC Column: RTX502. ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

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

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBK01

Lab Name: H2M LABS INC. Contract: C003180
Lab Code: 10478 Case No.: RA096 SAS No.: _____ SDG No.: 0121
Matrix: (soil/water) SOIL Lab Sample ID: VBK24
Sample wt/vol: 5.0 (g/ml) G Lab File ID: P05462.D
Level: (low/med) LOW Date Received: _____
% Moisture: not dec. 0 Date Analyzed: 01/24/97
GC Column: RTX502 ID: 0.53 (mm) Dilution Factor: 1.0
Soil Extract Volume: 1 (uL) Soil Aliquot Volume: 1 (uL)

CONCENTRATION UNITS:

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

Number TICs found: 0

Handwritten: m₂ 1/24/97

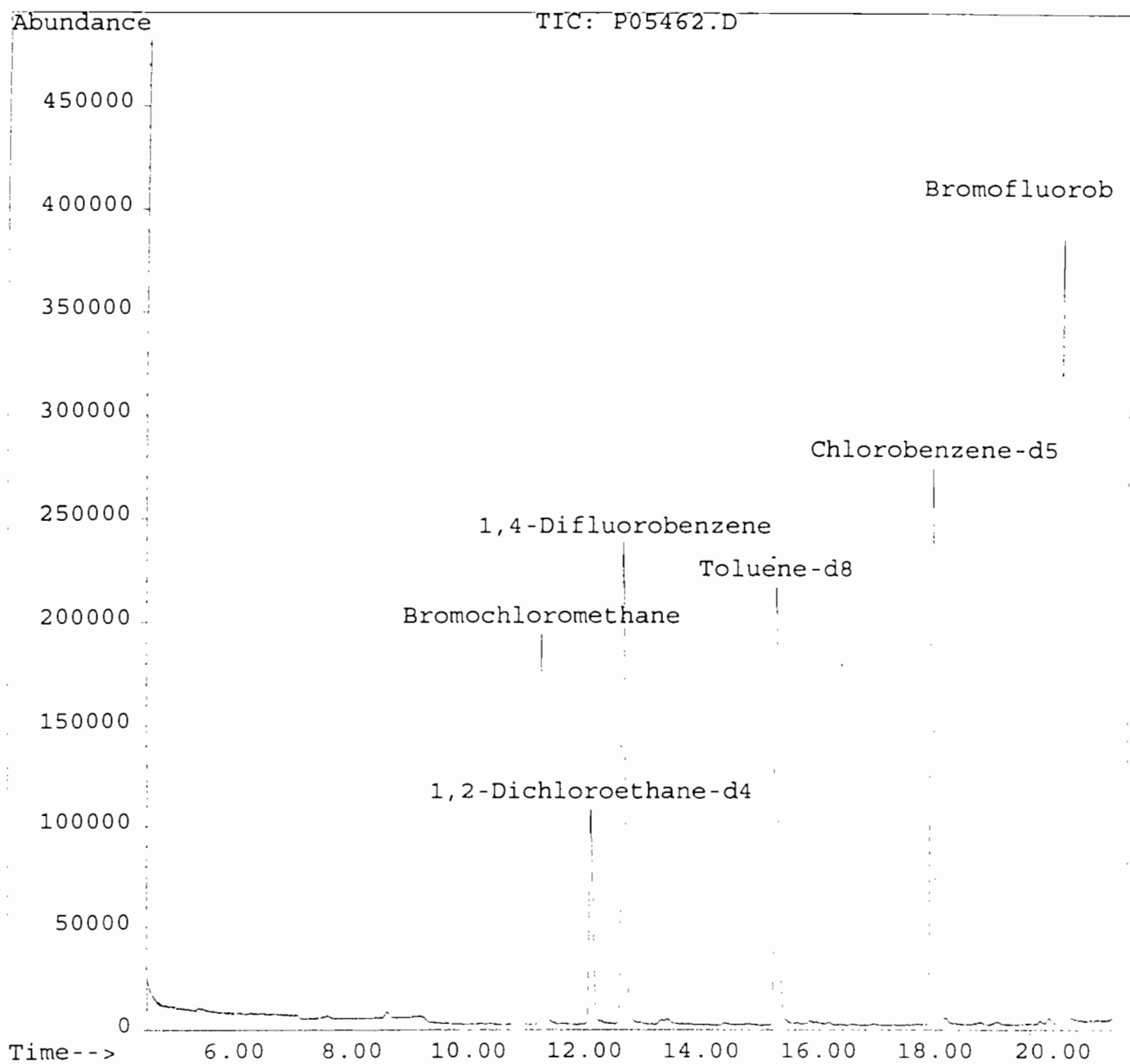
CAS NO.	COMPOUND	RT	EST. CONC.	Q

Quantitation Report

Data File : C:\HPCHEM\1\DATA\P05462.D
Acq On : 24 Jan 97 10:59 am
Sample : VBLK24
Misc : H5970-3 1/24/97 5.0G
Quant Time: Feb 5 10:52 1997

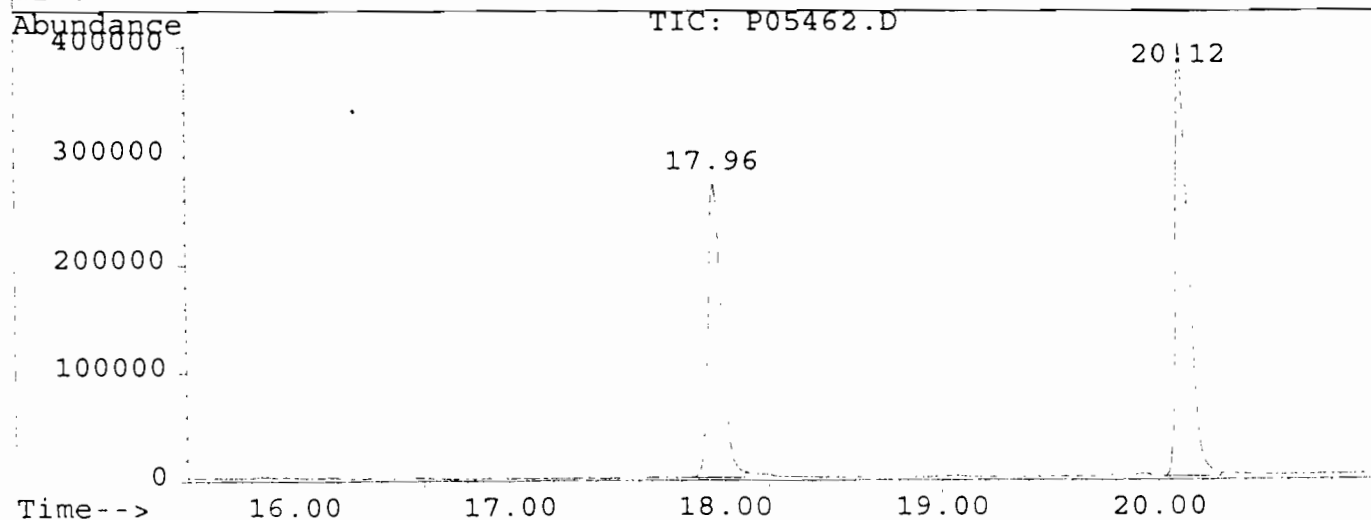
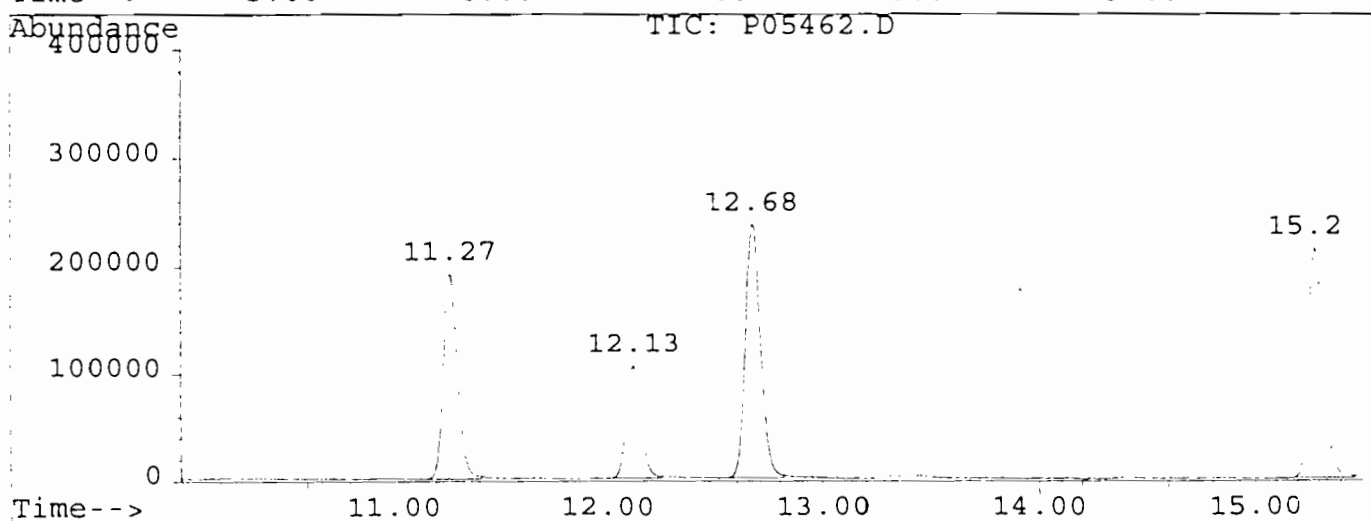
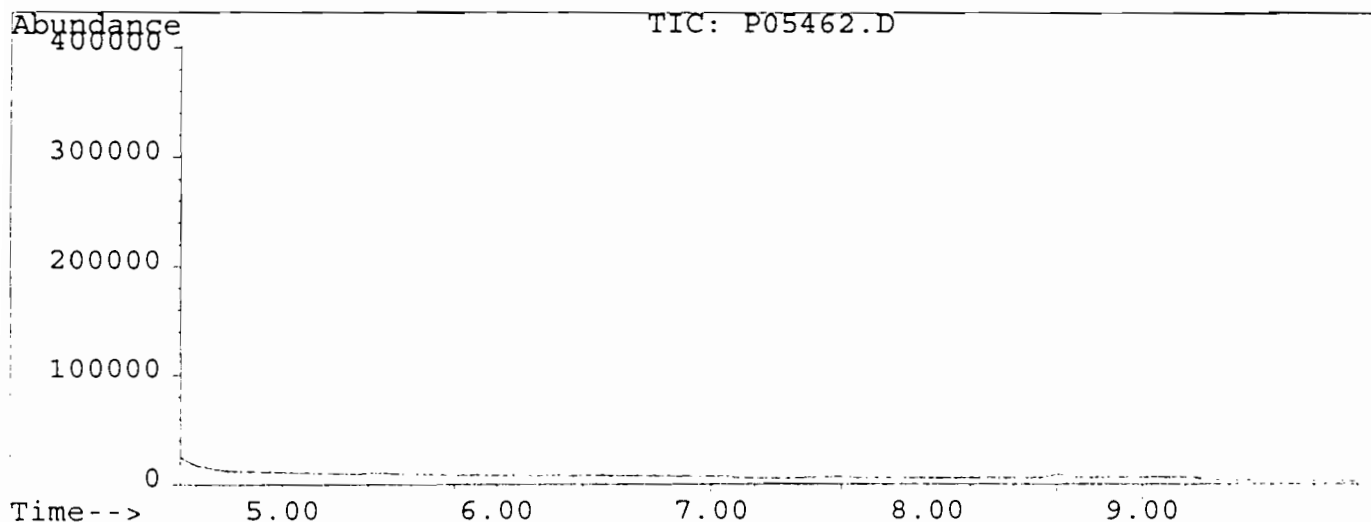
Vial: 2
Operator: GLENN
Inst : 5970 - In
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\CLPS.M
Title : VOA CLP WATER METHOD
Last Update : Wed Feb 05 12:46:55 1997
Response via : Single Level Calibration



V 0112

File : C:\HPCHEM\1\DATA\P05462.D
Operator : GLENN
Acquired : 24 Jan 97 10:59 using AcqMethod CLPS
Instrument : 5970 - In
Sample Name: VBLK24
Misc Info : H5970-3 1/24/97 5.0G
Vial Number: 2



Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\P05462.D
Acq On : 24 Jan 97 10:59
Sample : VBLK24
Misc : H5970-3 1/24/97 5.0G

Vial: 2
Operator: GLENN
Inst : 5970 - In
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\CLPS.M
Title : VOA CLP WATER METHOD
Library : NBS75K.L

No Library Search Compounds Detected

V 0115

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBK02

Lab Name: H2M LABS INC. Contract: C003180

Lab Code: 10478 Case No.: RA096 SAS No.: _____ SDG No.: 0121

Matrix: (soil/water) SOIL Lab Sample ID: VBK5

Sample wt/vol: 5.0 (g/ml) G Lab File ID: P05559.D

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. 0 Date Analyzed: 02/05/97

GC Column: RTX502 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

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

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBK02

Lab Name: H2M LABS INC. Contract: C003180
Lab Code: 10478 Case No.: RA096 SAS No.: _____ SDG No.: 0121
Matrix: (soil/water) SOIL Lab Sample ID: VBK5
Sample wt/vol: 5.0 (g/ml) G Lab File ID: P05559.D
Level: (low/med) LOW Date Received: _____
% Moisture: not dec. 0 Date Analyzed: 02/05/97
GC Column: RTX502 ID: 0.53 (mm) Dilution Factor: 1.0
Soil Extract Volume: 1 (uL) Soil Aliquot Volume: 1 (uL)

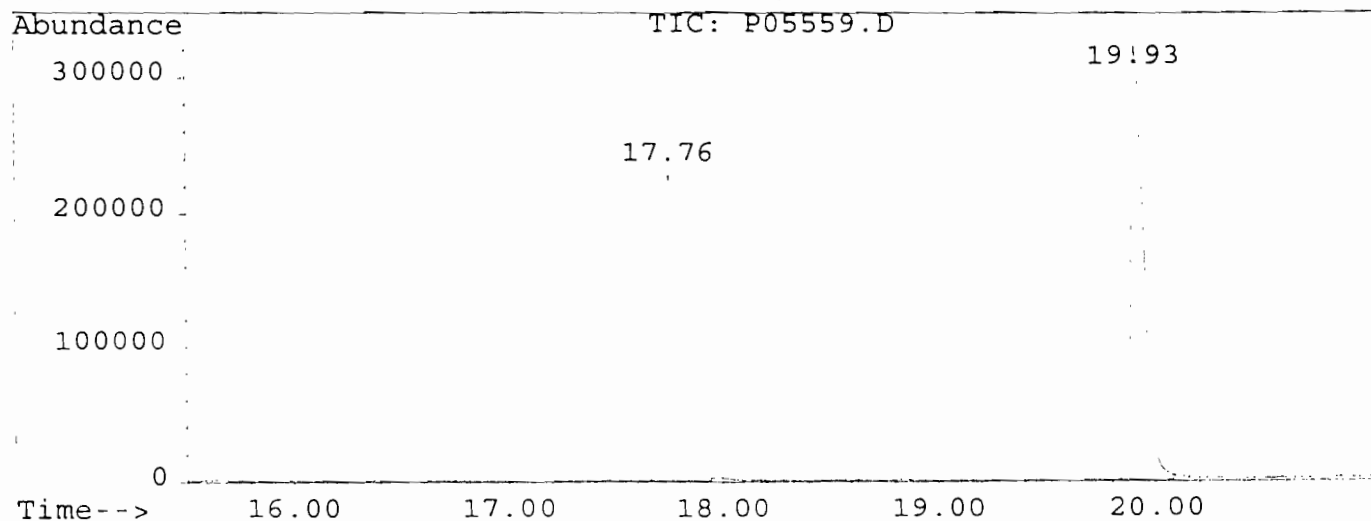
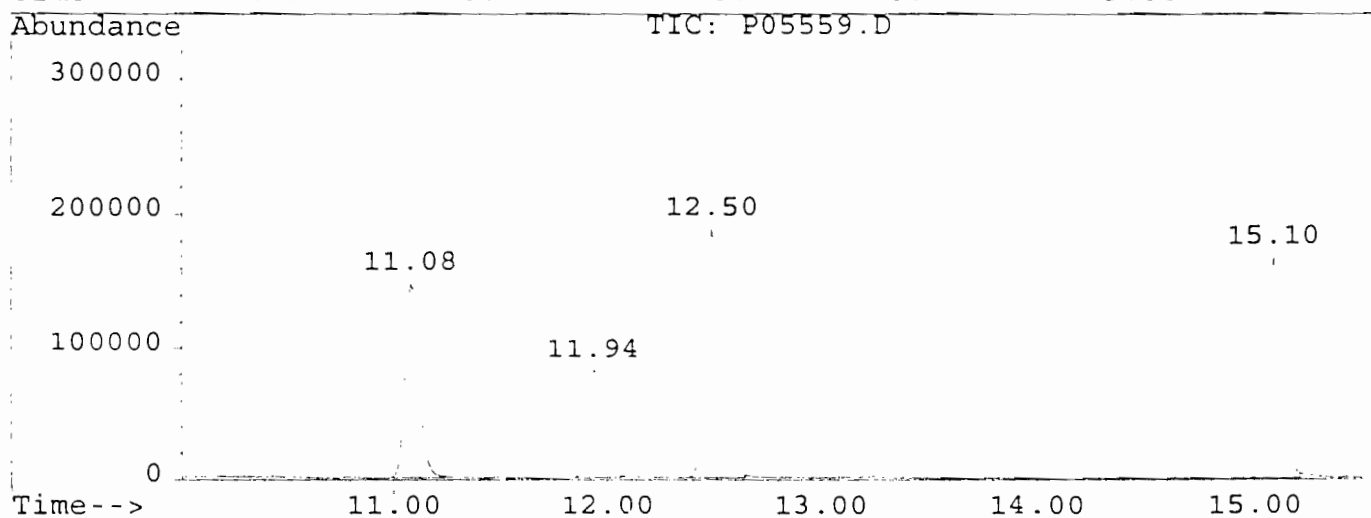
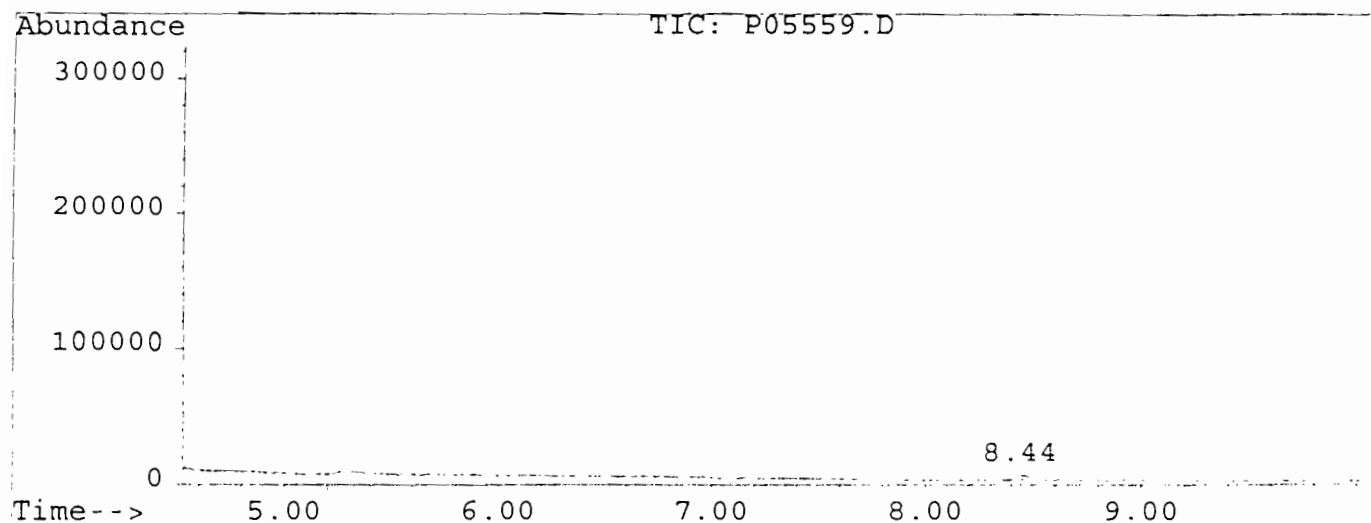
CONCENTRATION UNITS:

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

Number TICs found: 0

CAS NO.	COMPOUND	RT	EST. CONC.	Q

File : C:\HPCHEM\1\DATA\P05559.D
Operator : GLENN
Acquired : 5 Feb 97 13:36 using AcqMethod CLPS
Instrument : 5970 - In
Sample Name: VBLK5
Misc Info : H5970-3 2/5/97 5.0G
Vial Number: 2



1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MSB24

Lab Name: H2M LABS INC. Contract: C003180

Lab Code: 10478 Case No.: RA096 SAS No.: _____ SDG No.: 0121

Matrix: (soil/water) SOIL Lab Sample ID: MSB24

Sample wt/vol: 5.0 (g/ml) G Lab File ID: P05463.D

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. 0 Date Analyzed: 01/24/97

GC Column: RTX502. ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/KG	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		10	U
67-64-1	Acetone		10	U
75-15-0	Carbon Disulfide		10	U
75-35-4	1,1-Dichloroethene		42	
75-34-4	1,1-Dichloroethane		10	U
540-59-0	1,2-Dichloroethene (total)		10	U
67-66-3	Chloroform		10	U
107-06-2	1,2-Dichloroethane		10	U
78-93-3	2-Butanone		10	U
71-55-6	1,1,1-Trichloroethane		10	U
56-23-5	Carbon Tetrachloride		10	U
75-27-4	Bromodichloromethane		10	U
78-87-5	1,2-Dichloropropane		10	U
10061-01-5	cis-1,3-Dichloropropene		10	U
79-01-6	Trichloroethene		45	
71-43-2	Benzene		45	
124-48-1	Dibromochloromethane		10	U
10061-02-6	trans-1,3-Dichloropropene		10	U
79-00-5	1,1,2-Trichloroethane		10	U
75-25-2	Bromoform		10	U
108-10-1	4-Methyl-2-Pentanone		10	U
591-78-6	2-Hexanone		10	U
127-18-4	Tetrachloroethene		10	U
79-34-5	1,1,2,2-Tetrachloroethane		10	U
108-88-3	Toluene		43	
108-90-7	Chlorobenzene		44	
100-41-4	Ethylbenzene		10	U
100-42-5	Styrene		10	U
1330-20-7	Xylene (total)		10	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MSB24

Lab Name: H2M LABS INC. Contract: C003180

Lab Code: 10478 Case No.: RA096 SAS No.: _____ SDG No.: 0121

Matrix: (soil/water) SOIL Lab Sample ID: MSB24

Sample wt/vol: 5.0 (g/ml) G Lab File ID: P05463.D

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. 0 Date Analyzed: 01/24/97

GC Column: RTX502 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: 1 (uL) Soil Aliquot Volume: 1 (uL)

CONCENTRATION UNITS:

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

Number TICs found: 0

CAS NO.	COMPOUND	RT	EST. CONC.	Q

Data File : C:\HPCHEM\1\DATA\P05463.D

Acq On : 24 Jan 97 11:30 am

Sample : MSB24

Misc : H5970-3 1/24/97 5.0G

Quant Time: Feb 5 10:55 1997

Vial: 3

Operator: GLENN

Inst : 5970 - In

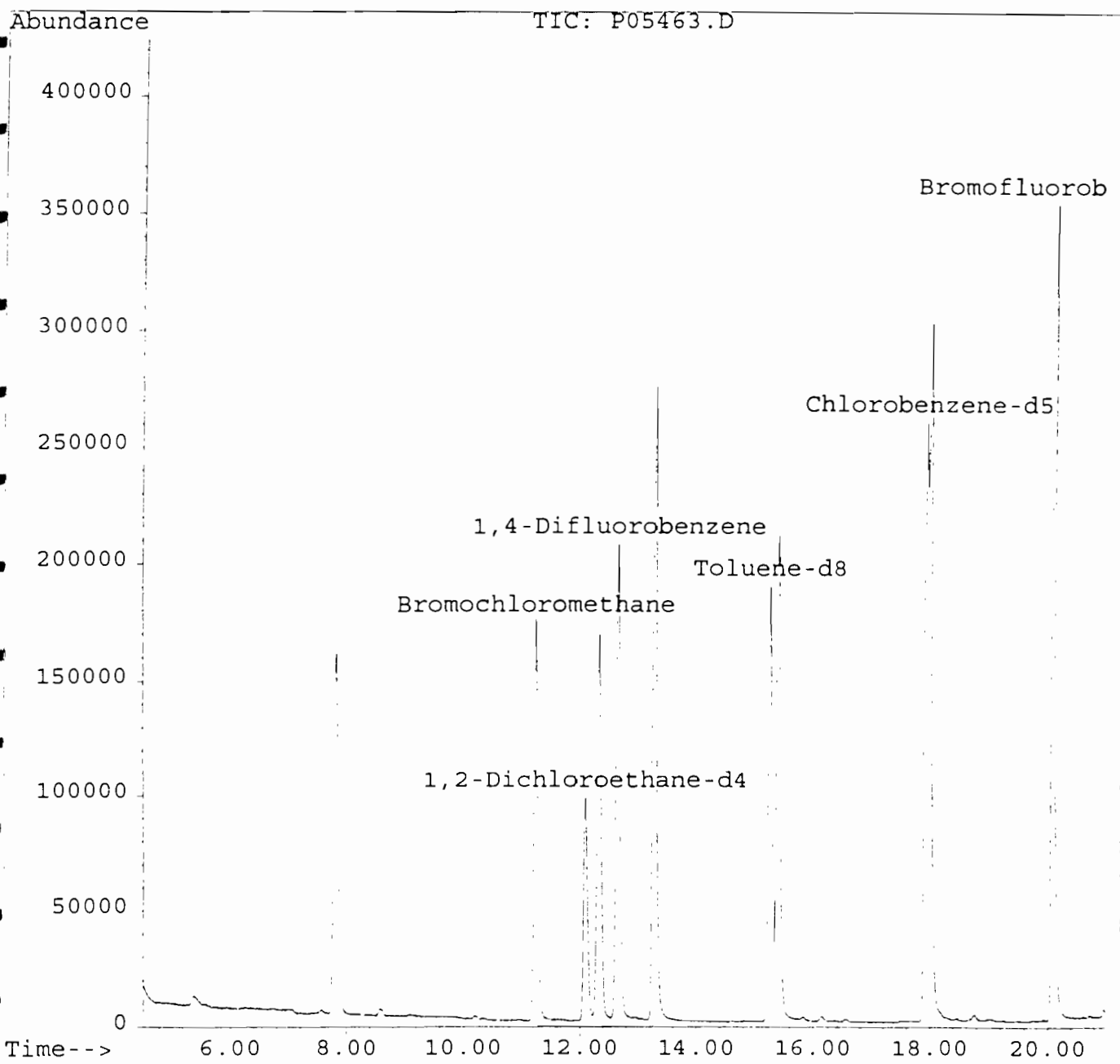
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\CLPS.M

Title : VOA CLP WATER METHOD

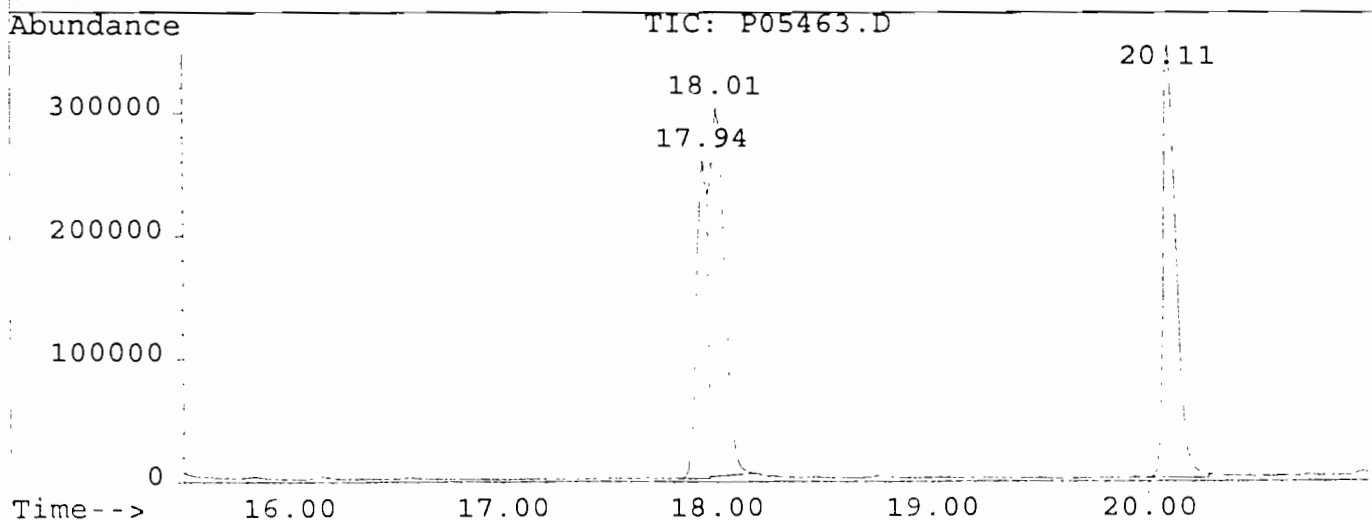
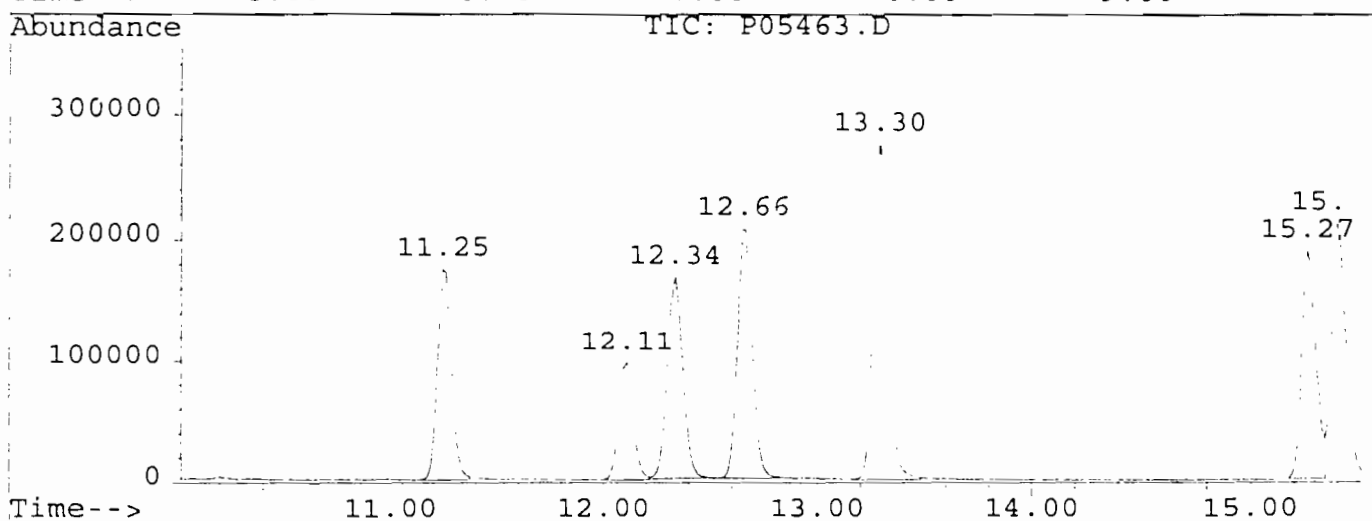
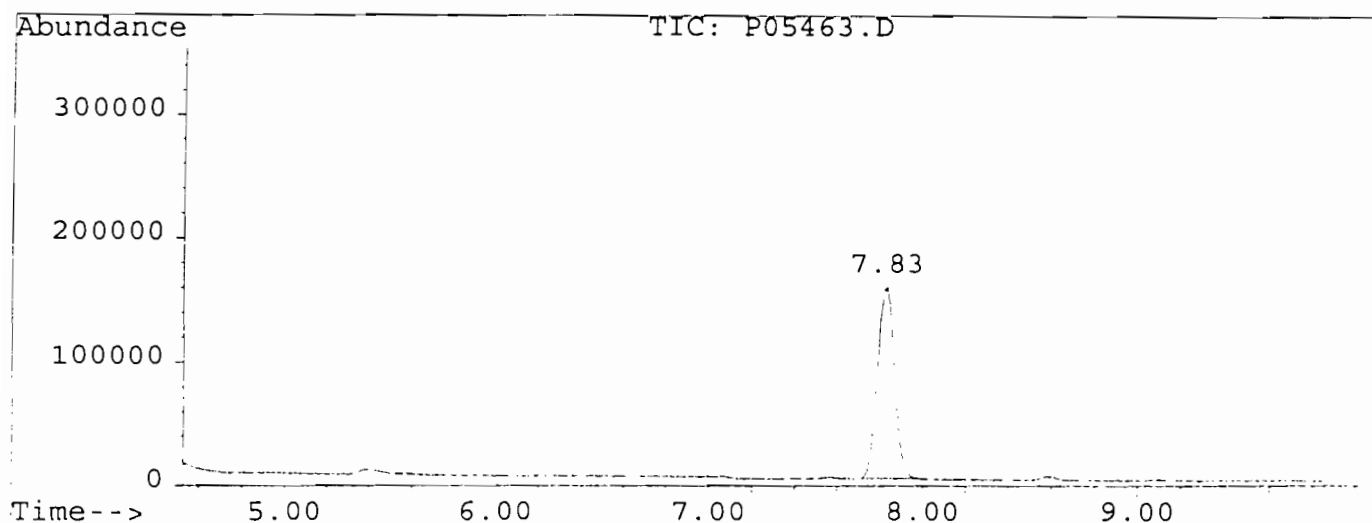
Last Update : Wed Feb 05 12:46:55 1997

Response via : Single Level Calibration



V 0123

File : C:\HPCHEM\1\DATA\P05463.D
Operator : GLENN
Acquired : 24 Jan 97 11:30 using AcqMethod CLPS
Instrument : 5970 - In
Sample Name: MSB24
Misc Info : H5970-3 1/24/97 5.0G
Vial Number: 3



Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\P05463.D
Acq On : 24 Jan 97 11:30
Sample : MSB24
Misc : H5970-3 1/24/97 5.0G

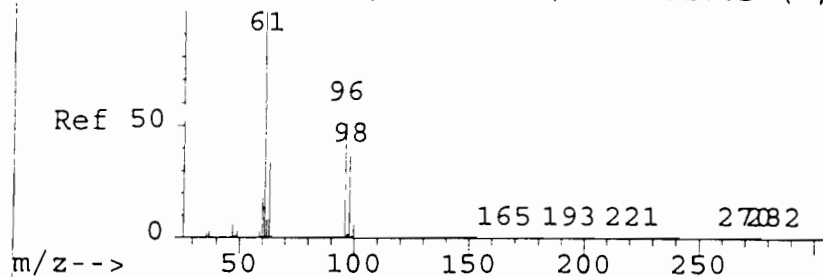
Vial: 3
Operator: GLENN
Inst : 5970 - In
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\CLPS.M
Title : VOA CLP WATER METHOD
Library : NBS75K.L

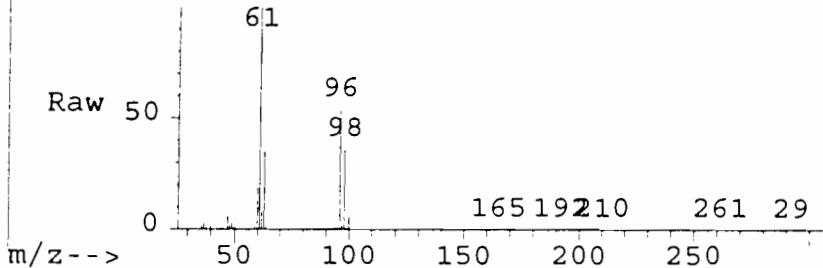
No Library Search Compounds Detected

V 0125

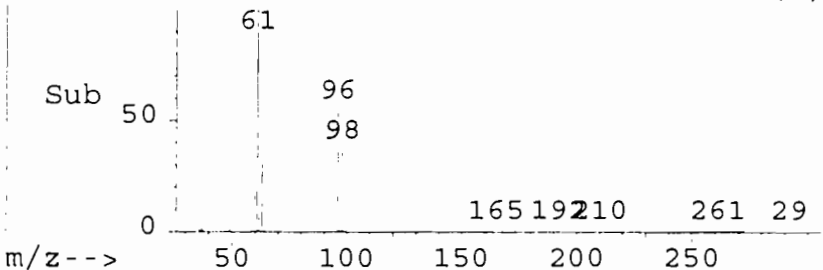
AbundanceScan 571 (7.788 min): P05327.D (-,



AbundanceScan 578 (7.831 min): P05463.D (*)



AbundanceScan 578 (7.831 min): P05463.D (-,



#6

1,1-Dichloroethene

Concen: 41.55 UG/L m

RT: 7.83 min Scan# 578

Delta R.T. -0.03 min

Lab File: P05463.D

Acq: 24 Jan 97 11:30 am

Tgt Ion:96 Resp: 157981

Ion Ratio Lower Upper

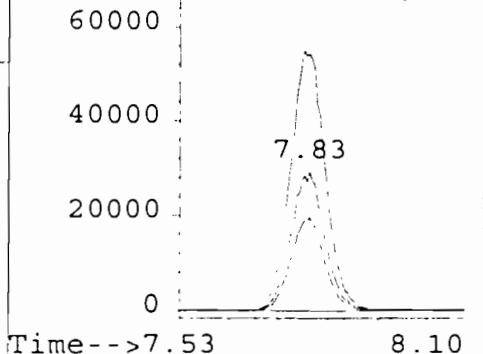
96 100

61 185.7 139.2 179.2#

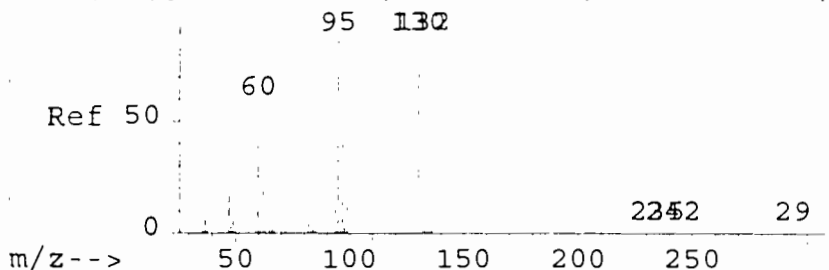
98 67.2 44.9 84.9

0 0.0 0.0 0.0

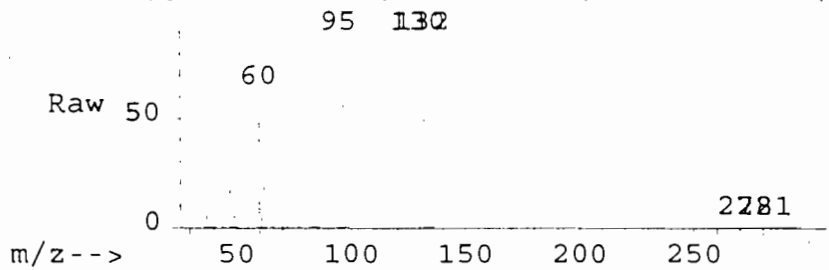
AbundanceIon 96.00 (95.
Ion 61.00 (60.
Ion 98.00 (97.



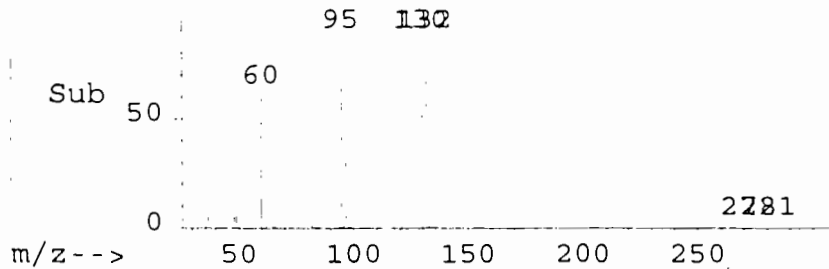
AbundanceScan 1529 (13.271 min): P05327.D (



AbundanceScan 1531 (13.285 min): P05463.D (



AbundanceScan 1531 (13.285 min): P05463.D (



#24

Trichloroethene

Concen: 44.51 UG/L

RT: 13.29 min Scan# 1531

Delta R.T. -0.02 min

Lab File: P05463.D

Acq: 24 Jan 97 11:30 am

Tgt Ion:130 Resp: 201082

Ion Ratio Lower Upper

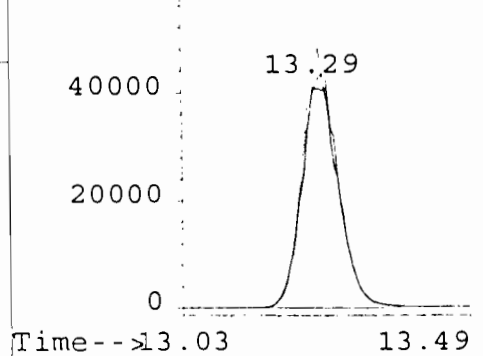
130 100

132 96.8 82.0 122.0

95 106.5 80.0 120.0

0 0.0 0.0 0.0

AbundanceIon 130.00 (129
Ion 132.00 (131
Ion 95.00 (94.



Sample Name: MSB24

Misc. Info: H5970-3 1/24/97 5.0G

P05463.D CLPS.M

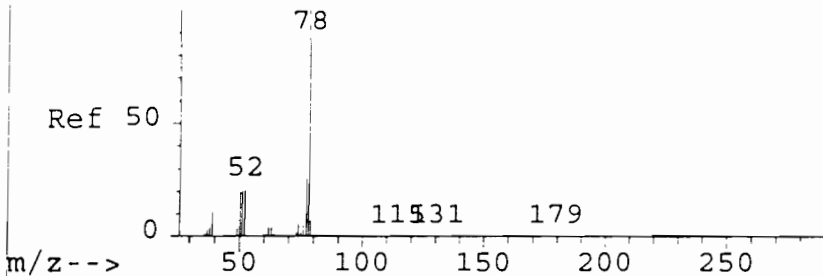
Thu Feb 06 10:30:02 1997

MASSPEC1

Page 3

V 6129

AbundanceScan 1360 (12.304 min): P05327.D (



#25

Benzene

Concen: 45.48 UG/L

RT: 12.34 min Scan# 1366

Delta R.T. -0.02 min

Lab File: P05463.D

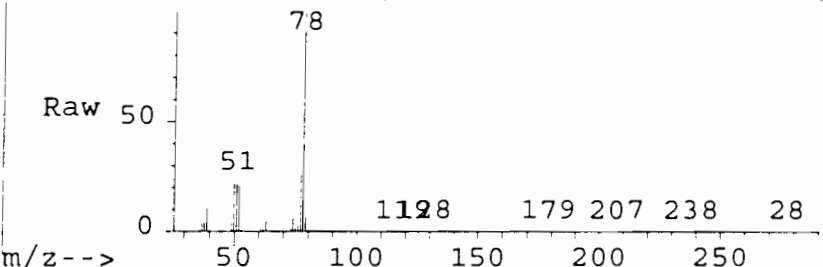
Acq: 24 Jan 97 11:30 am

Tgt Ion:78 Resp: 335232

Ion Ratio Lower Upper

78	100		
77	26.5	5.9	45.9
52	20.9	0.1	40.1
0	0.0	0.0	0.0

AbundanceScan 1366 (12.341 min): P05463.D (



AbundanceIon 78.00 (77.

Ion 77.00 (76.

80000 Ion 52.00 (51.

12.34

60000

40000

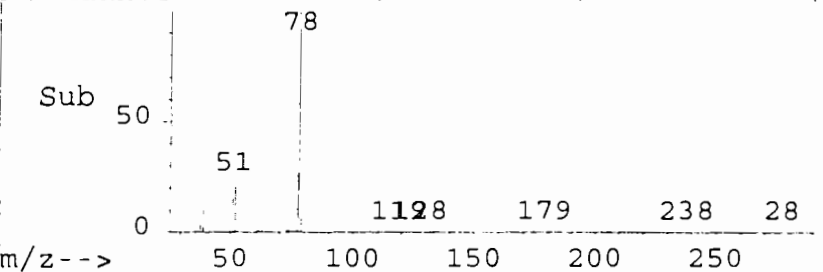
20000

0

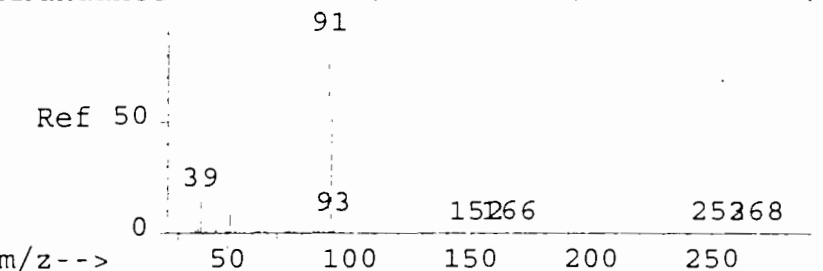
Time-->12.02

12.57

AbundanceScan 1366 (12.341 min): P05463.D (



AbundanceScan 1898 (15.383 min): P05327.D (



#36

Toluene

Concen: 43.29 UG/L

RT: 15.41 min Scan# 1902

Delta R.T. -0.02 min

Lab File: P05463.D

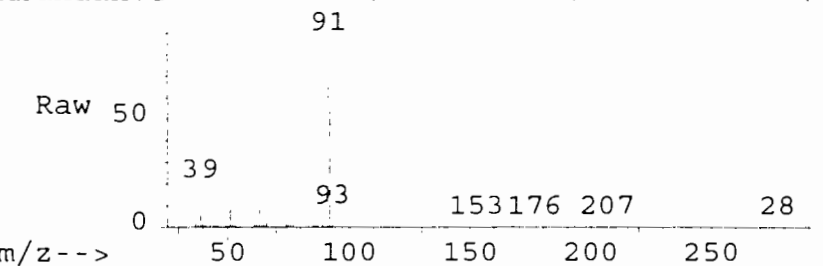
Acq: 24 Jan 97 11:30 am

Tgt Ion:91 Resp: 356222

Ion Ratio Lower Upper

91	100		
92	56.3	40.1	80.1
0	0.0	0.0	0.0
0	0.0	0.0	0.0

AbundanceScan 1902 (15.409 min): P05463.D (



AbundanceIon 91.00 (90.

Ion 92.00 (91.

80000 15.41

60000

40000

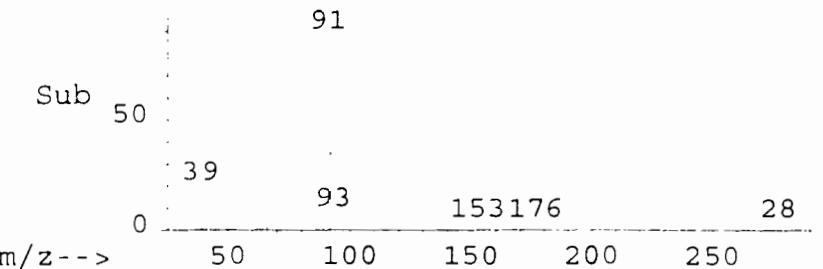
20000

0

Time-->15.13

15.65

AbundanceScan 1902 (15.409 min): P05463.D (



Sample Name: MSB24

Misc. Info: H5970-3 1/24/97 5.0G

P05463.D CLPS.M

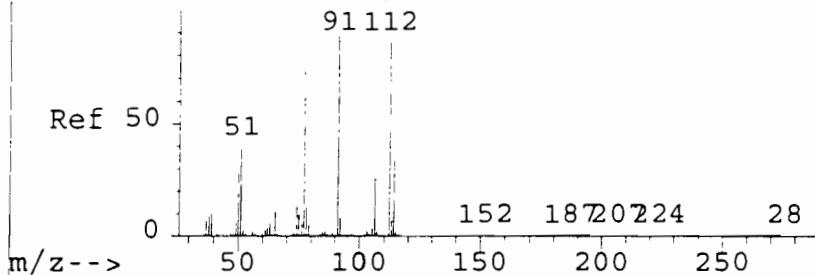
Thu Feb 06 10:30:05 1997

MASSPEC1

Page 4

V 01:00

AbundanceScan 2354 (17.993 min): P05327.D (



#39

Chlorobenzene

Concen: 43.88 UG/L

RT: 18.01 min Scan# 2356

Delta R.T. -0.02 min

Lab File: P05463.D

Acq: 24 Jan 97 11:30 am

Tgt Ion:112 Resp: 323704

Ion Ratio Lower Upper

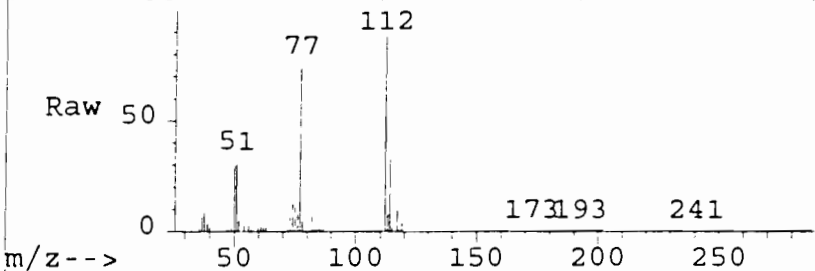
112 100

114 33.1 14.4 54.4

77 73.3 45.3 85.3

0 0.0 0.0 0.0

AbundanceScan 2356 (18.007 min): P05463.D (

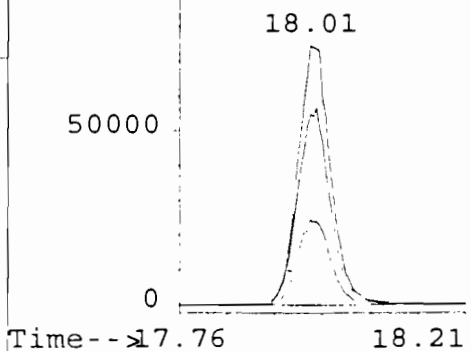
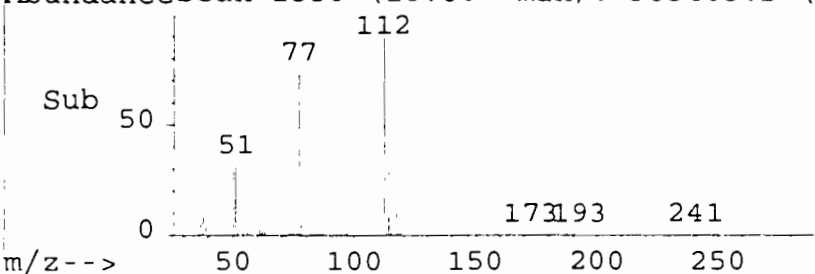


AbundanceIon 112.00 (111

100000 Ion 114.00 (113

Ion 77.00 (76.

AbundanceScan 2356 (18.007 min): P05463.D (



Sample Name: MSB24

Misc. Info: H5970-3 1/24/97 5.0G

P05463.D CLPS.M

Thu Feb 06 10:30:07 1997

MASSPEC1

V 0101

Page 5

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B60201MS

Lab Name: H2M LABS INC. Contract: C003180

Lab Code: 10478 Case No.: RA096 SAS No.: SDG No.: 0121

Matrix: (soil/water) SOIL Lab Sample ID: 9702015MS

Sample wt/vol: 5.0 (g/ml) G Lab File ID: P05465.D

Level: (low/med) LOW Date Received: 01/23/97

% Moisture: not dec. 4.4 Date Analyzed: 01/24/97

GC Column: RTX502 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: (uL) Soil Aliquot Volume: (uL)

CONCENTRATION UNITS:

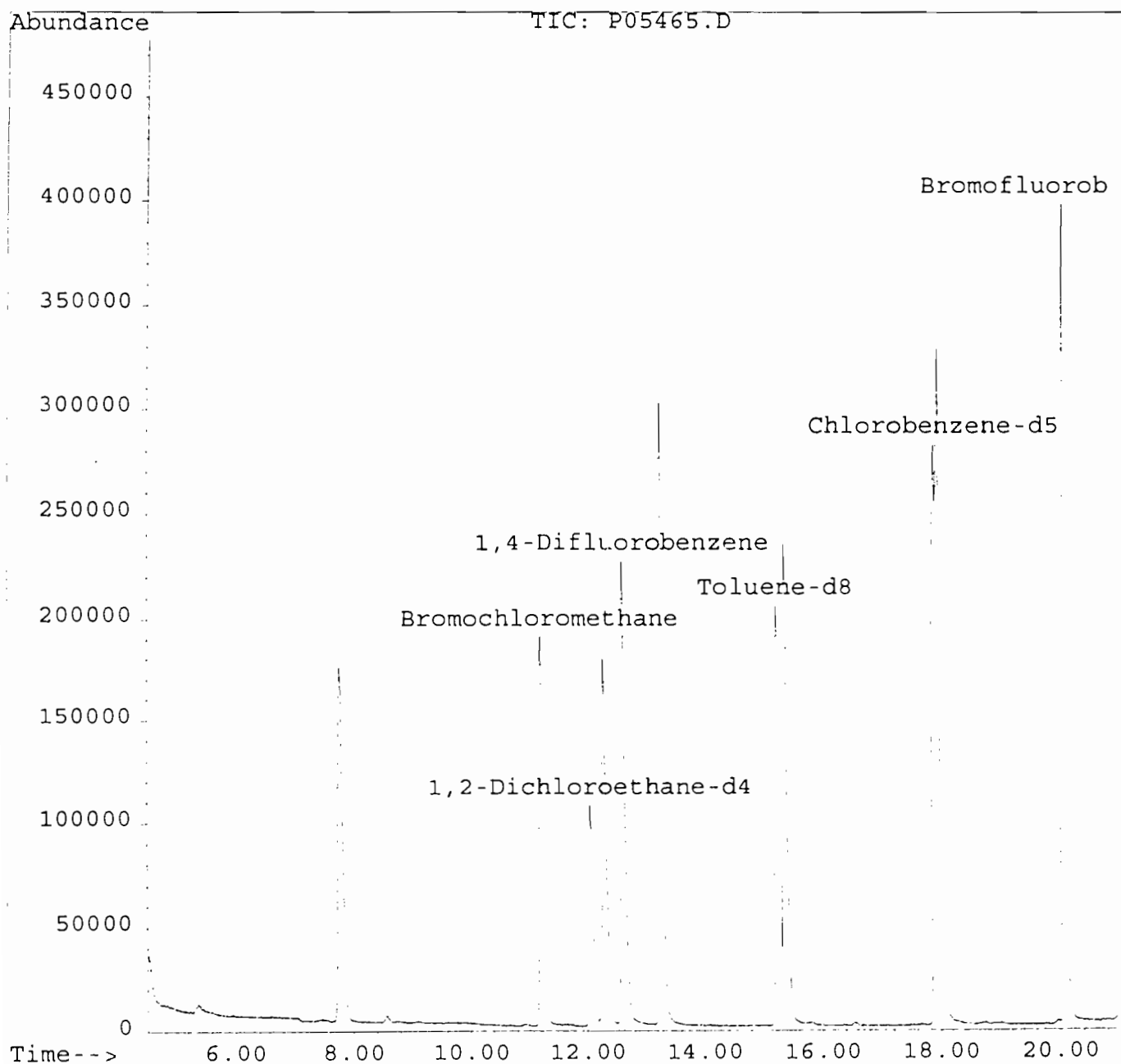
CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/KG	Q
74-87-3	Chloromethane	10	U	
74-83-9	Bromomethane	10	U	
75-01-4	Vinyl Chloride	10	U	
75-00-3	Chloroethane	10	U	
75-09-2	Methylene Chloride	10	U	
67-64-1	Acetone	10	U	
75-15-0	Carbon Disulfide	10	U	
75-35-4	1,1-Dichloroethene	44		
75-34-4	1,1-Dichloroethane	10	U	
540-59-0	1,2-Dichloroethene (total)	10	U	
67-66-3	Chloroform	10	U	
107-06-2	1,2-Dichloroethane	10	U	
78-93-3	2-Butanone	10	U	
71-55-6	1,1,1-Trichloroethane	10	U	
56-23-5	Carbon Tetrachloride	10	U	
75-27-4	Bromodichloromethane	10	U	
78-87-5	1,2-Dichloropropane	10	U	
10061-01-5	cis-1,3-Dichloropropene	10	U	
79-01-6	Trichloroethene	47		
71-43-2	Benzene	47		
124-48-1	Dibromochloromethane	10	U	
10061-02-6	trans-1,3-Dichloropropene	10	U	
79-00-5	1,1,2-Trichloroethane	10	U	
75-25-2	Bromoform	10	U	
108-10-1	4-Methyl-2-Pentanone	10	U	
591-78-6	2-Hexanone	10	U	
127-18-4	Tetrachloroethene	10	U	
79-34-5	1,1,2,2-Tetrachloroethane	10	U	
108-88-3	Toluene	46		
108-90-7	Chlorobenzene	46		
100-41-4	Ethylbenzene	10	U	
100-42-5	Styrene	10	U	
1330-20-7	Xylene (total)	10	U	

Quantitation Report

Data File : C:\HPCHEM\1\DATA\P05465.D
 Acq On : 24 Jan 97 12:38 pm
 Sample : 9702015MS
 Misc : B60201MS H5970-3 1/24/97 5.0G
 Quant Time: Feb 5 10:56 1997

Vial: 5
 Operator: GLENN
 Inst : 5970 - In
 Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\CLPS.M
 Title : VOA CLP WATER METHOD
 Last Update : Wed Feb 05 12:46:55 1997
 Response via : Single Level Calibration



V 0133

Quantitation Report

Data File : C:\HPCHEM\1\DATA\P05465.D
Acq On : 24 Jan 97 12:38
Sample : 9702015MS
Misc : B60201MS H5970-3 1/24/97 5.0G
Quant Time: Feb 5 10:56 1997

Vial: 5
Operator: GLENN
Inst : 5970 - In
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\CLPS.M
Title : VOA CLP WATER METHOD
Last Update : Fri Jan 24 10:47:18 1997
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\P05461.D

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	11.23	128	111163	50.00	UG/L	-0.04
21) 1,4-Difluorobenzene	12.65	114	398281	50.00	UG/L	-0.04
33) Chlorobenzene-d5	17.94	117	323361	50.00	UG/L	-0.01

System Monitoring Compounds						%Recovery
18) 1,2-Dichloroethane-d4	12.09	65	185830	55.47	UG/L	110.95%
34) Toluene-d8	15.26	98	329396	49.13	UG/L	98.25%
43) Bromofluorobenzene	20.10	95	318373	51.98	UG/L	103.97%

Target Compounds						Qvalue
6) 1,1-Dichloroethene	7.80	96	169224	41.73	UG/L	# 79
24) Trichloroethene	13.28	130	221573	44.47	UG/L	97
25) Benzene	12.32	78	362411	44.59	UG/L	99
36) Toluene	15.40	91	390969	43.80	UG/L	100
39) Chlorobenzene	18.01	112	353117	44.13	UG/L	89

(#) = qualifier out of range (m) = manual integration

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B60201MSD

Lab Name: H2M LABS INC. Contract: C003180

Lab Code: 10478 Case No.: RA096 SAS No.: _____ SDG No.: 0121

Matrix: (soil/water) SOIL Lab Sample ID: 9702015MSD

Sample wt/vol: 5.0 (g/ml) G Lab File ID: P05466.D

Level: (low/med) LOW Date Received: 01/23/97

% Moisture: not dec. 4.4 Date Analyzed: 01/24/97

GC Column: RTX502. ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

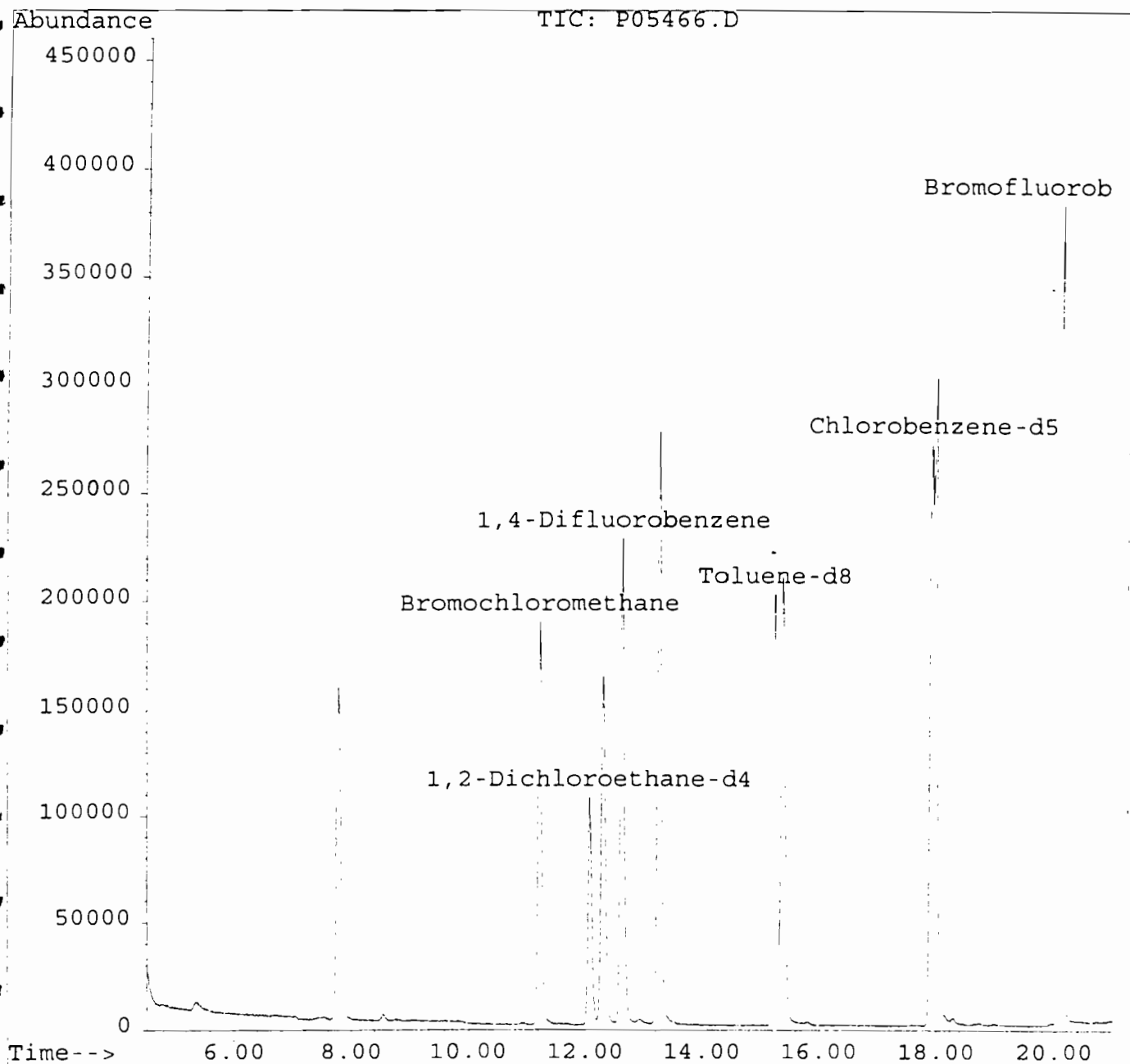
CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/KG	Q
74-87-3	Chloromethane	10	U	
74-83-9	Bromomethane	10	U	
75-01-4	Vinyl Chloride	10	U	
75-00-3	Chloroethane	10	U	
75-09-2	Methylene Chloride	10	U	
67-64-1	Acetone	10	U	
75-15-0	Carbon Disulfide	10	U	
75-35-4	1,1-Dichloroethene	40		
75-34-4	1,1-Dichloroethane	10	U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

Quantitation Report

Data File : C:\HPCHEM\1\DATA\P05466.D
 Acq On : 24 Jan 97 1:09 pm
 Sample : 970201MSD
 Misc : B60201MSD H5970-3 1/24/97 5.0G
 Quant Time: Feb 5 10:57 1997

Vial: 6
 Operator: GLENN
 Inst : 5970 - In
 Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\CLPS.M
 Title : VOA CLP WATER METHOD
 Last Update : Wed Feb 05 12:46:55 1997
 Response via : Single Level Calibration



V 0136

Quantitation Report

Data File : C:\HPCHEM\1\DATA\P05466.D

Acq On : 24 Jan 97 13:09

Sample : 9702015MSD

Misc : B60201MSD H5970-3 1/24/97 5.0G

Quant Time: Feb 5 10:57 1997

Vial: 6

Operator: GLENN

Inst : 5970 - In

Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\CLPS.M

Title : VOA CLP WATER METHOD

Last Update : Fri Jan 24 10:47:18 1997

Response via : Continuing Cal File: C:\HPCHEM\1\DATA\P05461.D

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	11.23	128	110890	50.00	UG/L	-0.04
21) 1,4-Difluorobenzene	12.64	114	389106	50.00	UG/L	-0.04
33) Chlorobenzene-d5	17.92	117	320404	50.00	UG/L	-0.04
System Monitoring Compounds				%Recovery		
18) 1,2-Dichloroethane-d4	12.08	65	183603	54.94	UG/L	109.89%
34) Toluene-d8	15.25	98	323138	48.64	UG/L	97.28%
43) Bromofluorobenzene	20.09	95	306660	50.53	UG/L	101.06%
Target Compounds				Qvalue		
6) 1,1-Dichloroethene	7.79	96	152923	37.81	UG/L	# 71
24) Trichloroethene	13.27	130	204579	42.03	UG/L	93
25) Benzene	12.31	78	329961	41.55	UG/L	99
36) Toluene	15.39	91	357703	40.44	UG/L	99
39) Chlorobenzene	18.00	112	323590	40.81	UG/L	94

-----V-0133
(#) = qualifier out of range (m) = manual integration

P05466.D CLPS.M

Thu Feb 06 10:29:05 1997

MASSPEC1

Page 1

TOTAL SOLIDS FOR SLUDGES AND SOILS

NDIC

SDG 0121

START TIME: _____

DATE: 12/1/77

END TIME: _____

ANALYST: NEA

LAB#	PAN/CRUCIBLE	LAB#	PAN/CRUCIBLE
%TS	%TVS	%TS	%TVS
INITIAL WEIGHT	DRY WEIGHT	INITIAL WEIGHT	DRY WEIGHT
-TARE WEIGHT	-TARE WEIGHT	-TARE WEIGHT	-TARE WEIGHT
=SAMPLE WEIGHT	=SOLID WEIGHT	=SAMPLE WEIGHT	=SOLID WEIGHT
=	=	=	=
LAB#	PAN/CRUCIBLE	LAB#	PAN/CRUCIBLE
%TS	%TVS	%TS	%TVS
INITIAL WEIGHT	DRY WEIGHT	INITIAL WEIGHT	DRY WEIGHT
-TARE WEIGHT	-TARE WEIGHT	-TARE WEIGHT	-TARE WEIGHT
=SAMPLE WEIGHT	=SOLID WEIGHT	=SAMPLE WEIGHT	=SOLID WEIGHT
=	=	=	=
LAB#	PAN/CRUCIBLE	LAB#	PAN/CRUCIBLE
%TS	%TVS	%TS	%TVS
INITIAL WEIGHT	DRY WEIGHT	INITIAL WEIGHT	DRY WEIGHT
-TARE WEIGHT	-TARE WEIGHT	-TARE WEIGHT	-TARE WEIGHT
=SAMPLE WEIGHT	=SOLID WEIGHT	=SAMPLE WEIGHT	=SOLID WEIGHT
=	=	=	=
LAB#	PAN/CRUCIBLE	LAB#	PAN/CRUCIBLE
%TS	%TVS	%TS	%TVS
INITIAL WEIGHT	DRY WEIGHT	INITIAL WEIGHT	DRY WEIGHT
-TARE WEIGHT	-TARE WEIGHT	-TARE WEIGHT	-TARE WEIGHT
=SAMPLE WEIGHT	=SOLID WEIGHT	=SAMPLE WEIGHT	=SOLID WEIGHT
=	=	=	=

H2M LABS, INC.

TOTAL SOLIDS FOR SLUDGES AND SOILS

NDEC

SDG 0121

DATE: 12/7/97

ANALYST: MTH

START TIME: _____

END TIME: _____

LAB# 9702017	PAN/CRUCIBLE CC				LAB# 9702020	PAN/CRUCIBLE CF			
%TS	9.1%	%TVS	(B60203)	DRY WEIGHT	INITIAL WEIGHT	96.3%	%TVS	(B60206)	DRY WEIGHT
INITIAL WEIGHT	10.6276	DRY WEIGHT			10.3068	DRY WEIGHT			
-TARE WEIGHT	-	-TARE WEIGHT	-	-	-TARE WEIGHT	-	-TARE WEIGHT	-	-
-	1.2225	=SOLID WEIGHT	=	=	-	1.3173	=SOLID WEIGHT	=	=
=SAMPLE WEIGHT	=	=	=	=	=	4.1495	=SOLID WEIGHT	=	=
						8.6543			
LAB# 9702013	PAN/CRUCIBLE CB				LAB# 9702021	PAN/CRUCIBLE CG			
%TS	9.1%	%TVS	(B60203)	DRY WEIGHT	INITIAL WEIGHT	96.3%	%TVS	(B60207)	DRY WEIGHT
INITIAL WEIGHT	10.6190	DRY WEIGHT			10.6275	DRY WEIGHT			
-TARE WEIGHT	-	-TARE WEIGHT	-	-	-TARE WEIGHT	-	-TARE WEIGHT	-	-
-	1.3173	=SOLID WEIGHT	=	=	-	1.3105	=SOLID WEIGHT	=	=
=SAMPLE WEIGHT	=	=	=	=	=	1.317	=SOLID WEIGHT	=	=
						4.9763			
LAB# 9702019	PAN/CRUCIBLE CE				LAB# 9702022	PAN/CRUCIBLE CH			
%TS	9.1%	%TVS	(B60205)	DRY WEIGHT	INITIAL WEIGHT	98.9%	%TVS	(B60208)	DRY WEIGHT
INITIAL WEIGHT	11.8607	DRY WEIGHT			10.6300	DRY WEIGHT			
-TARE WEIGHT	-	-TARE WEIGHT	-	-	-TARE WEIGHT	-	-TARE WEIGHT	-	-
-	1.5243	=SOLID WEIGHT	=	=	-	1.3156	=SOLID WEIGHT	=	=
=SAMPLE WEIGHT	=	=	=	=	=	6.3144	=SOLID WEIGHT	=	=
						9.2951			

P 0011

H2M LABS, INC.

TOTAL SOLIDS FOR SLUDGES AND SOILS

ND&L

START TIME: _____

END TIME: _____

SDG 0121

DATE: 1/27/67

ANALYST: MCM

LAB# 9702023	(PAN) CRUCIBLE CZ				LAB# 9702027	(PAN) CRUCIBLE CL			
%TS 93.2%	%TVS (B60209)				%TS 95.7%	%TVS			
INITIAL WEIGHT 10.790	DRY WEIGHT 10.4375	DRY WEIGHT			INITIAL WEIGHT 10.3585	DRY WEIGHT 9.9677	DRY WEIGHT		
-TARE WEIGHT - 1.3236	-TARE WEIGHT - 1.3236	- IGNITED WEIGHT -			-TARE WEIGHT - 1.3290	-TARE WEIGHT - 1.3294	- IGNITED WEIGHT -		
=SAMPLE WEIGHT = 9.4664	=SOLID WEIGHT = 9.1139	=VOLATILE WEIGHT =			=SAMPLE WEIGHT = 9.0295	=SOLID WEIGHT = 8.6387	=VOLATILE WEIGHT =		
LAB# 9702024	(PAN) CRUCIBLE CJ				LAB# 9702030	(PAN) CRUCIBLE CM			
%TS 97.6%	%TVS (B60210)				%TS 95.3%	%TVS			
INITIAL WEIGHT 10.3183	DRY WEIGHT 10.004	DRY WEIGHT			INITIAL WEIGHT 12.2080	DRY WEIGHT 11.6457	DRY WEIGHT		
-TARE WEIGHT - 1.3187	-TARE WEIGHT - 1.3187	- IGNITED WEIGHT -			-TARE WEIGHT - 1.3218	-TARE WEIGHT - 1.3218	- IGNITED WEIGHT -		
=SAMPLE WEIGHT = 9.0006	=SOLID WEIGHT = 8.7853	=VOLATILE WEIGHT =			=SAMPLE WEIGHT = 10.8862	=SOLID WEIGHT = 10.3239	=VOLATILE WEIGHT =		
LAB# 9702026	(PAN) CRUCIBLE CK				LAB# 9702031	(PAN) CRUCIBLE CN			
%TS 96.3%	%TVS				%TS 95.2%	%TVS			
INITIAL WEIGHT 10.2255	DRY WEIGHT 9.840	DRY WEIGHT			INITIAL WEIGHT 12.1835	DRY WEIGHT 11.6673	DRY WEIGHT		
-TARE WEIGHT - 1.3112	-TARE WEIGHT - 1.3112	- IGNITED WEIGHT -			-TARE WEIGHT - 1.3289	-TARE WEIGHT - 1.3289	- IGNITED WEIGHT -		
=SAMPLE WEIGHT = 8.9143	=SOLID WEIGHT = 8.5288	=VOLATILE WEIGHT =			=SAMPLE WEIGHT = 10.8546	=SOLID WEIGHT = 10.3384	=VOLATILE WEIGHT =		

H2M LABS, INC.

TOTAL SOLIDS FOR SLUDGES AND SOILS

START TIME: _____ DATE: 1/27/27

END TIME: _____ ANALYST: RCT

NDEE

SDG 0121

LAB#	PAN/CRUCIBLE	LAB#	PAN/CRUCIBLE
%TS	%TVS	%TS	%TVS
INITIAL WEIGHT	DRY WEIGHT	INITIAL WEIGHT	DRY WEIGHT
-TARE WEIGHT	-IGNITED WEIGHT	-TARE WEIGHT	-IGNITED WEIGHT
=SAMPLE WEIGHT	=VOLATILE WEIGHT	=SAMPLE WEIGHT	=VOLATILE WEIGHT
LAB#	PAN/CRUCIBLE	LAB#	PAN/CRUCIBLE
%TS	%TVS	%TS	%TVS
INITIAL WEIGHT	DRY WEIGHT	INITIAL WEIGHT	DRY WEIGHT
-TARE WEIGHT	-IGNITED WEIGHT	-TARE WEIGHT	-IGNITED WEIGHT
=SAMPLE WEIGHT	=VOLATILE WEIGHT	=SAMPLE WEIGHT	=VOLATILE WEIGHT
LAB#	PAN/CRUCIBLE	LAB#	PAN/CRUCIBLE
%TS	%TVS	%TS	%TVS
INITIAL WEIGHT	DRY WEIGHT	INITIAL WEIGHT	DRY WEIGHT
-TARE WEIGHT	-IGNITED WEIGHT	-TARE WEIGHT	-IGNITED WEIGHT
=SAMPLE WEIGHT	=VOLATILE WEIGHT	=SAMPLE WEIGHT	=VOLATILE WEIGHT
LAB#	PAN/CRUCIBLE	LAB#	PAN/CRUCIBLE
%TS	%TVS	%TS	%TVS
INITIAL WEIGHT	DRY WEIGHT	INITIAL WEIGHT	DRY WEIGHT
-TARE WEIGHT	-IGNITED WEIGHT	-TARE WEIGHT	-IGNITED WEIGHT
=SAMPLE WEIGHT	=VOLATILE WEIGHT	=SAMPLE WEIGHT	=VOLATILE WEIGHT

VOLATILE

	#	ID
S.Irr.		
I.S.		
M.S.		
QC Check		

SCAN: VOA

INSTRUMENT: H5970-3

COLUMN: RTX502.2

DATE	RUN #	SAMPLE	LAB #	VOL.	COMMENTS	TIME INJ.	ANALYSTS SIGNATURE
12/26/96	P05317		9636749	5.0g	1	1523	J. Bolmech
"	P05318		9636749 AL	0.8g	2	1618	"
12/31/96	P05319	50 ng BFB		5.0 mL	1	0905	J. Bolmech
	P05320	VSTD010			3	1043	
	P05321	VSTD020 *			4	1119	
	P05322	VSTD050 *			CLPW.M 5	1150	
	P05323	VSTD100 *			6	1221	
	P05324	VSTD200 *			7	1252	
	P05325	VSTD010 *			9	1323	
	P05326	VSTD020 *			10	1354	
	P05327	VSTD050 *			CLPS.M 11	1425	
	P05328	VSTD100 *			12	1456	
	P05329	VSTD200 *			13	1527	
✓	P05330	VSTD010 *		✓	CLPW.M 14	1642	✓
1/2/97	P05331	50 ng BFB		5.0 mL	8	1036	J. Bolmech
	P05332	VSTD050		"	CLPS.M 8	1153	
	P05333	VBLKZ		5.0g	9	1306	
	P05334	VHBLKZ			10	1402	
	P05335	EP-1	9637060		11	1433	
	P05336	MJBZ			12	1506	
	P05337	EP-1MS	9637060MS		13	1550	
✓	P05338	EP-1MSD	9637060 MSD	✓	14	1621	✓

Backed
up 1/4/97

P 0052

V 0144

H2M LABS, INC.

VOLATILE

Surr.		
I.S.		
M.S.		
QC Check		

SCAN: VOA

INSTRUMENT: H5970-3

COLUMN: RTX502.2

DATE	RUN #	SAMPLE	LAB #	VOL.	COMMENTS	TIME INJ.	ANALYSTS SIGNATURE
1/22/97	P05449	MW-218S	9701773	5.0ml		10 1444	JR Belucchi
	P05450	MW-218S MS	9701773 MS			11 1514	
	P05451	MW-218S MSD	9701773 MSD			12 1544	
	P05452	MW-218U	9701774			13 1614	
	P05453	Field Blank	9701775			14 1643	
	P05454	MW-208S	9701814			15 1713	
	P05455	MW-208D	9701815			16 1743	
	P05456	MW-210D	9701816			1 1813	
	P05457	MW-202S	9701817			2 1842	
	P05458	Trip Blank	9701819			3 1912	
↓	P05459		9701627	↓		4 1942	↓
1/24/97	P05460	50 ng BFB		1ul	Direct	0911	JR Belucchi
	P05461	VST0050		5.0ml		1 1019	
	P05462	VBLK24		5.0g		2 1059	
	P05463	MSB24				3 1130	
	P05464	B60201	9702015			4 1207	
	P05465	B60201 MS	9702015 MS			5 1238	
	P05466	B60201 MSD	9702015 MSD			6 1309	
	P05467	B60202	9702016			7 1340	
	P05468	B60203	9702017			8 1410	
	P05469	B60204	9702018			9 1441	
↓	P05470	B60205	9702019	↓		10 1512	↓

P C058

V 0145

H2M LABS, INC.

VOLATILE

Surr.		
I.S.		
M.S.		
QC Check		

SCAN: VOA

INSTRUMENT: H5970-3

COLUMN: RTX502.2

DATE	RUN #	SAMPLE	LAB #	VOL.	COMMENTS	TIME INJ.	ANALYSTS SIGNATURE
1/24/97	P05471	B60206	9702020	5.0g		11 1543	J. B. Buchholz
	P05472	B60207	9702021			12 1614	
	P05473	B60208	9702022			13 1645	
	P05474	B60209	9702023			14 1716	
	P05475	B60210	9702024			15 1747	
	P05476	B60211	9702025		Rec 2.0g	16 1818	
	P05477	B60212	9702026			1 1849	
	P05478	B60213	9702027			2 1920	
	P05479	B60215	9702029		Rec 2.0g	3 1950	
	P05480	B60216	9702030			4 2021	
	P05481	B60217	9702031			5 2052	
↓	P05482		9701628	↓	Rec 1.0g	6 2123	↓
1/27/97	P05483	50 ng BFB		1ul	Direct	1246	J. B. Buchholz
	P05484	VST0050		5.0ml		1 1521	
	P05485	VBLK27		5.0g		2 1600	
	P05486	B60211 DL	9702025 DL	2.0g		3 1644	
	P05487	B60215 DL	9702029 DL	2.0g		4 1715	
	P05488	B60218	9702032	5.0g		5 1746	
	P05489	B60231	9702300			6 1817	
	P05490	B60232	9702301			7 1847	
	P05491	B60233	9702302			8 1918	
↓	P05492	B60234	9702303	↓		9 1949	↓

P 0059

V 0110

H2M LABS, INC.

VOLATILE

	LOT #	SURR. ID
Surr.		
I.S.		
M.S.		
QC Check		

SCAN: VOA

INSTRUMENT: H5970-3

COLUMN: RTX502.2

DATE	RUN #	SAMPLE	LAB #	VOL.	COMMENTS	TIME INJ.	ANALYSTS SIGNATURE
1/30/97	P05537	VSTD050		5.0ml	1	1211	JBachmehl
	P05538	VBLK30			2	1254	
	P05539	VHBLK30			3	1324	
	P05540	B60220 DL	9702037 DL		1:25 4	1354	
	P05541	Trip Blank	9702046		5	1423	
	P05542	B60238	9702297		6	1453	
	P05543		9702716		7	1527	
	P05544		9702717		8	1557	
	P05545		9702718		9	1627	
	P05546		9702719		10	1656	
	P05547		9702720		11	1726	
	P05548	VSTD050			12	1757	
	P05549	VBLK30			13	1827	
	P05550		9702141		4g → 10ml 10ml 14	1857	
↓	P05551		9702141	↓	4g → 10ml 100ml 15	0749	↓
1/31/97	P05552	Song BFB		1ul	Direct	1050	JBachmehl
	P05553	VSTD050		5.0ml	1	1127	
	P05554	VBLK31		5.0g	2	1224	
	P05555	B60252	9702423		3	1322	
↓	P05556		9702759	↓	4	1353	↓
2/5/97	P05557	Song BFB		1ul	Direct	1017	JBachmehl
"	P05558	VSTD050		5.0ml	1	1213	"

Backed up 2/3/97

P 0062

V 011

H2M LABS, INC.

VOLATILE

	#	ID
Surr.		
I.S.		
M.S.		
QC		
Check		

SCAN: VOA

INSTRUMENT: H590-3

COLUMN: RTX-502.2

DATE	RUN #	SAMPLE	LAB #	VOL.	COMMENTS	TIME INJ.	ANALYSTS SIGNATURE
2/5/97	P05559	VBK5		5.0g	2	1336	JSolucich
	P05560	B60205	9702019		3	1415	
	P05561		9703371		4	1446	
2/6/97	P05562	50ng BFB		1ul	Direct	0951	JSolucich
	P05563	VSTD050		5.0ml	1	1105	
	P05564	VBK6			2	1144	
	P05565	MSB6			3	1222	
	P05566	1769-001	9703499		4.0g → 10ml 25ml	4	1302
	P05567	1769-001 DL	9703499		4.0g → 10ml 1.0ml → 50ml	4	1507
	P05568	1769-001 DL	9703499		4.0g → 10ml 1ul → 50ml 1:40L	4	1602
	P05569	1769-001MSDL	9703499MS			5	1644
	P05570	1769-001 MID DL	9703499 MID			6	1719
	P05571		9703169			7	1755
	P05572		9703170			8	1830
	P05573		9703171			9	1905
	P05574		9703172			10	1940
	P05575		9703173			11	2015
	P05576		9703232			12	2050
	P05577		9703233			13	2125
	P05578		9703370			14	2200
	P05579	LFB6				15	2236
✓	P05580	TBLK 2/4		✓		16	2311 ✓

P 0063

V 0140

SDG # 0121

SCAN VDA

This data package was reported by the undersigned. This reporting includes data calculations, manual edits if necessary, and compilation of raw data. The information presented is true and correct to the best of my knowledge.

Signature: G. Bochnick

Date: 2/10/97

Analytical Data Package For

A6SP-03
Soils

**NEW YORK STATE DEPARTMENT OF
ENVIRONMENTAL CONSERVATION**

A66P-05

REGION 0

GW

CONTRACT #: C003180

CASE #: RA096 SDG #: 0122

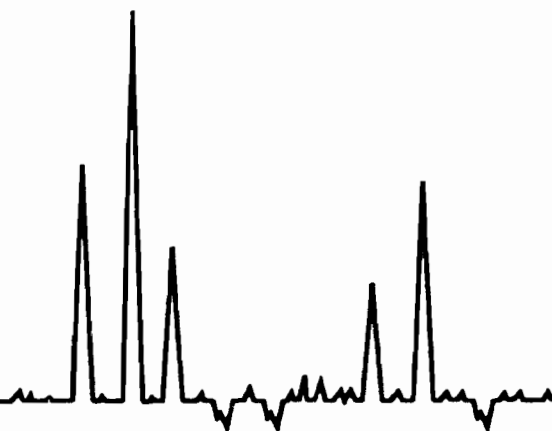
B60211 to B60219

Water and Soil Samples

RECEIVED: January 23, 1997

VOLATILE DATA

JANUARY 1997



H2M LABS, INC.

Environmental Testing Laboratories

575 Broad Hollow Road, Melville, N.Y. 11747

ANALYTICAL DATA PACKAGE

TABLE OF CONTENTS

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
REGION 0
CONTRACT: C003180
CASE: RA096
SAMPLES RECEIVED: 1/23/97
0122

- I. NYS DEC SUMMARY FORMS**
- II. SDG NARRATIVES**
- III. CONTRACT LAB SAMPLE INFORMATION SHEET**
- IV. CHAIN OF CUSTODY DOCUMENTATION**
- V. ANALYTICAL DATA PACKAGES**
- VI. CSF PURGE PACKAGE (FOR BTSR ONLY)**

**DATA PACKAGE FOR CLIENT INFORMATION
PURPOSES ONLY**

L NYS DEC SUMMARY FORMS

H2M LABS, INC.

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SAMPLE IDENTIFICATION AND ANALYTICAL REQUIREMENT SUMMARY

SAMPLES RECEIVED 1/23/97

CONTRACT: C003180

CASE NO.: RA096

SDG NO.: 0122

Customer Sample Code	Laboratory Sample Code	Analytical Requirements					
		*VOA GC/MS	*BNA GC/MS	*VOA GC	*PEST/ PCB	*METALS	OTHER
B60211	9702025	X					
B60212	9702026	X					
B60213	9702027	X					
B60214	9702028		X				
B60215	9702029	X					
B60216	9702030	X					
B60217	9702031	X					
B60218	9702032	X					
B60219	9702033					X	
B60220	9702037	X					
B60221	9702038	X					
B60222	9702039	X					
B60223	9702040					X	
B60223A	9702041					X	
B60224	9702042					X	
B60224A	9702043					X	
B60225	9702044					X	
B60225A	9702045					X	

* Check Appropriate Boxes

* CLP, Non-CLP (Please indicate year of protocol) 1/13 Rev-

* TCL/TAL, HSL, Priority Pollutant

SEMIVOLATILE SAMPLE PREPARATION AND ANALYSIS SUMMARY

SDG No.: NDECB-0122

SAMPLE ID	MATRIX	PROT- OCOL	EXTR. METHOD	AUX. CLEAN	LEVEL	DIL. FACT.	DATE COLL.	DATE RCVD.	DATE EXTD.	DATE ANAL.
360214	SOIL	CLP	SONC	GPC	LOW	1	1/22/97	1/23/97	1/24/97	2/18/97

A 0005

IL SDG NARRATIVES

H2M LABS, INC.

SDG NARRATIVE FOR VOLATILES

SAMPLES RECEIVED: 1/23/97

CONTRACT #: C003180

CASE #: RA096

SDG #: 0122

For Samples:	B60211	B60218
	B60212	B60220
	B60213	B60221
	B60215	B60222
	B60216	TRIP BLANK
	B60217	

The above soil and water samples were analyzed according to the requirements of the NYSDEC ASP method 91-1 for the TCL volatile organic analytes. No matrix spike/matrix spike duplicate was submitted with this SDG.

Sample B60220 had a high surrogate recoveries for d-4 1,2-dichloroethane. All surrogate recoveries were acceptable in the dilution of this sample. The recovery of this analyte was also out in the diluted analysis of sample B60221.

The following soil samples required re-analysis at lower sample volumes due to calibration exceedences:

B60211
B60215

The re-analysis did not show consistent results for trichloroethane. Surrogate recoveries were reproducible.

The following water samples required re-analysis at dilutions due to levels of targeted analytes above the calibration range:

B60220
B60221
B60222

Both sets of data are submitted.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his designee, as verified by the following signature.

Date Reported: March 3, 1997

*
* *Joann M. Slavin* *
*

Joann M. Slavin
Quality Assurance Manager

SDG NARRATIVE FOR BASE NEUTRAL ACID

CONTRACT# C003180

CASE# RA096

SDG#: 0122

SAMPLE RECEIVED 01/23/97

FOR SAMPLE: B60214

The above soil sample was analyzed according to the requirements of the NYSDEC ASP method 91-1 for the TCL base-neutral/acid extractable analytes. No matrix spike/matrix spike duplicate was analyzed with this SDG, however a lab fortified blank was included.

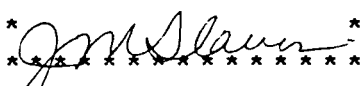
A majority of the recoveries of the lab fortified blank were within the QC limits except for:

2,4 dimethylphenol	20%	(lower limit 31%)
N-nitrosodiphenylamine	140%	(upper limit 124%)
Chrysene	137%	(125%)
Dibenz(a,h) anthracene	140%	(131%)
Benzo (g,h,i) perylene	135%	(131%)

These recoveries do not impact the results reported for the sample.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his designee, as verified by the following signature.

Date Reported: February 20, 1997

*  *

Joann Slavin
Quality Assurance Manager

SDG NARRATIVE FOR METALS ANALYSIS

SAMPLES RECEIVED: 1/23/97

CONTRACT #: C003180

CASE #: RA096

SDG #: 0122

Page 1 of 2

For Samples:

<u>CLIENT ID</u>	<u>SOFTWARE CODE</u>
B60219 MS/MSD	B60219 MS/MSD
B60223	B60223
B60223A	B223AX
B60224	B60224
B60224A	B224AX
B60225 MS/MSD	B60225 MS/MSD
B60225A MS/MSD	B225AX MS/MSD

ICP analysis was performed on a TJA61E Trace Analyzer and a TJA61 using method 200.7 CLP-M. Mercury was analyzed on a Leeman PS200 using method 245.1 CLP-M and 245.5 CLP-M.

Samples B223AX (9702041); B224AX (9702043) and B225AX (9702045) were field filtered and analyzed for dissolved metals.

The matrix spike recoveries for sample B60219 (9702033) were within 75-125%.

The chromium and iron duplicate results for sample B60219 (9702033) were not within the required control limits. All chromium and iron soil results are reported flagged with an "*" on Forms 1.

The ICP serial dilution results for sample B60219 (9702033) were within the required control limit (10% difference).

The antimony and chromium matrix spike recoveries for sample B60225 (9702044) were not within 75-125%. All total antimony and chromium water results are reported flagged with an "N" on Forms 1.

The chromium post spike was inadvertently spiked at 20 ug/l instead of 200 ug/l. The recovery was 119.5%.

The duplicate results for sample B60225 (9702044) were within the required control limits.

The lead ICP serial dilution results for sample B60225 (9702044) was not within the required control limit (10% difference). All total lead water results are reported flagged with an "E" on Forms 1.

The matrix spike recoveries and duplicate results for sample B225AX (9702045) were within the required control limits.

The copper ICP serial dilution results for sample B225AX (9702045) were not within the required control limit (10% difference). All dissolved copper results are reported flagged with an "E" on Forms 1.

SDG NARRATIVE FOR METALS ANALYSIS

SAMPLES RECEIVED: 1/23/97

CONTRACT #: C003180

CASE #: RA096

SDG #: 0122

Page 1 of 2

A 1:20 dilution was required for sample B60223 (9702040) and a 1:2 dilution for sample B60224 (9702042) to bring iron within the linear range of the instrument. Due to interference by iron, the dilution was also applied to the following analytes: antimony, cadmium, lead, magnesium, manganese, selenium, silver, thallium, vanadium, and zinc. These dilutions were required for accurate interelement corrections to be applied.

Two wavelengths were used for iron analysis on the TJA61E Trace Analyzer. The two lines allow for a greater sensitivity across a broad concentration range. A second ICV and CCV (ICVL, CCVL) were analyzed for the low level iron analysis.

All other quality control requirements were met. No problems were encountered.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his designee, as verified by the following signature.

Date Reported: March 3, 1997

*
*
*

Maureen Martin
Metals Supervisor

III CONTRACT LAB SAMPLE INFORMATION SHEET

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

CONTRACT LAB SAMPLE INFORMATION SHEET

Part 3

Print legibly

CAUTION (check if applicable)

- ☐ Lab Personnel are expected to use caution when handling DEC samples, however, please use special precautions when handling this sample since it is believed to contain significant concentrations of hazardous and/or toxic material(s).

COPY	
ORIGINAL LOCATED	
DATE: 3/1/77	
INITIALS	DATE
JD	3/1/77

Place QA Label Here

CHECK THE BOX PRECEDING THE REQUESTED ANALYSIS**PRIORITY POLLUTANTS (Water Part 136)—SPDES**

☐ 2. 13 PP Metals	☐ 3. Volatiles—(USEPA 624 GC/MS)	☐ 6. Pesticides/PCB's (USEPA 608-GC)
☐ 4. Acids Base/Neutrals (USEPA 625-GC/MS)	☐ 5. Cyanide	☐ 9. BOD
☐ 7. Halogenated Volatiles (USEPA 601-GC)	☐ 8. Aromatic Volatiles (USEPA 602-GC)	☐ 12. TSS
☐ 10. pH	☐ 11. COD	☐ 15. Ammonia
☐ 13. Settleable Solids	☐ 14. TKN	☐ 18. Reactive Phosphorus
☐ 16. Nitrate/Nitrite	☐ 17. Total Phosphorus	☐ 21. Total Phenols
☐ 19. Oil/Grease	☐ 20. TOC	☐ 60. PCB's congener method
☐ 22. Other _____	☐ 59. PCB's at 0.065 ug/L	☐ 64. Total Solids
	☐ 62. CBOD	☐ 65. Volatiles (USEPA 524.2 GC/MS)

CONTRACT LABORATORY PROTOCOLS

☐ 23. (ALL)—Water—Includes 24-28	☐ 29. (ALL)— Soil/Sediments—Includes 30-34
☐ 24. Base/Neutral/Acid (B/N/A)—Water—GC/MS (ASP #89-2)	☐ 30. B/N/A/—Soils/Sediment—GC/MS (ASP #89-2)
☐ 25. Volatile Organic Analysis VOA—Water—GC/MS(ASP #89-1)	☒ 31. VOA—Soils/Sediments—GC/MS (ASP #89-1)
☐ 26. Pesticides/PCB's—Water—GC(ASP #89-3)	☐ 32. Pesticides/PCB's—Soils/Sediment—GC (ASP #89-3)
☐ 27. Metals—23 in Water	☐ 33. Metals—23 in Soil/Sediment
☐ 28. Cyanide—Water	☐ 34. Cyanide—Soils/Sediment
☐ 66. Dioxin-Water (ASP #89-4)	☐ 67. Dioxin-Soil/Sediment (ASP #89-4)
☐ 35. Other _____	

HAZARDOUS WASTES/RCRA ANALYSIS SW-846

☐ 36. EP Toxicity	☐ 37. EP Toxicity (Metals Only)	☐ 38. Ignitability
☐ 39. Corrosivity	☐ 40. VOA—(USEPA 8240-GC/MS)	☐ 41. BNA—(USEPA 8270-GC/MS)
☐ 42. Pesticides/PCB's (USEPA 8080)	☐ 43. TCLP	☐ 44. TCLP (Metals Only)
☐ 45. Reactivity	☐ 46. Dioxin (USEPA 8280)	☐ 47. Appendix IX
☐ 48. Other _____	☐ 63. Percent Solids	☐ 68. Metals—17 Hazardous

MUNICIPAL SLUDGE

☐ 49. RSG-01	☐ 50. RSSR-01	☐ 51. RSGR-01	☐ 52. RSRB-01	☐ 53. RSRI-01 (EP Toxicity-Metals only + RSRR-01)
☐ 54. RSRO-01	☐ 55. RSSB-01	☐ 56. RSRR-01	☐ 57. RSRR-02	☐ 58. Other _____

COLLECTED BY:

J. G. Jones

TELEPHONE NUMBER:

518-457-1708

REGION NO:

1

CONTRACT LAB:

H2N

COUNTY

Nassau

SAMPLING DATE:

3/12/77

MILITARY TIME:

9:00

SAMPLE MATRIX:

- ☐ Air ☒ Soil/Sediment ☐ Groundwater ☐ Surface Water ☐ Wastewater ☐ Other (Specify) _____

CASE NUMBER

RA 096

SDG NUMBER

C 122

SAMPLE NUMBER

B 00211

CHECK FOR MS/MD

☐ This Sample

TYPE OF SAMPLE:

☐ Grab☐ Composite☐ Term _____ hrs☒ Check if there will be more samples with this SDG sent in this calendar week☐ Report via Category B, unless checked

SAMPLING POINT:

☐ Check if field duplicate

Outfall Number

☐ Check if sampling is part of inspection

SPDES NUMBER/REGISTRY NUMBER

FLOW

GPD

A 0013

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
CONTRACT LAB SAMPLE INFORMATION SHEET

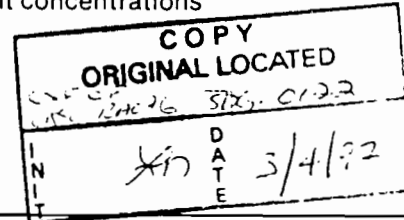
Print legibly

Part 3

CAUTION (check if applicable)

- ☐ Lab Personnel are expected to use caution when handling DEC samples, however, please use special precautions when handling this sample since it is believed to contain significant concentrations of hazardous and/or toxic material(s).

Place QA Label Here

**CHECK THE BOX PRECEDING THE REQUESTED ANALYSIS****PRIORITY POLLUTANTS (Water Part 136)—SPDES**

☐ 2. 13 PP Metals	☐ 3. Volatiles—(USEPA 624 GC/MS)	☐ 6. Pesticides/PCB's (USEPA 608-GC)
☐ 4. Acids Base/Neutrals (USEPA 625-GC/MS)	☐ 5. Cyanide	☐ 9. BOD
☐ 7. Halogenated Volatiles (USEPA 601-GC)	☐ 8. Aromatic Volatiles (USEPA 602-GC)	☐ 12. TSS
☐ 10. pH	☐ 11. COD	☐ 15. Ammonia
☐ 13. Settleable Solids	☐ 14. TKN	☐ 18. Reactive Phosphorus
☐ 16. Nitrate/Nitrite	☐ 17. Total Phosphorus	☐ 21. Total Phenols
☐ 19. Oil/Grease	☐ 20. TOC	☐ 60. PCB's congener method
☐ 22. Other _____	☐ 59. PCB's at 0.065 ug/L	☐ 64. Total Solids
	☐ 62. CBOD	☐ 65. Volatiles (USEPA 524.2 GC/MS)

CONTRACT LABORATORY PROTOCOLS

☐ 23. (ALL)—Water—Includes 24-28	☐ 29. (ALL)— Soil/Sediments—Includes 30-34
☐ 24. Base/Neutral/Acid (B/N/A)—Water—GC/MS (ASP #89-2)	☐ 30. B/N/A/—Soils/Sediment—GC/MS (ASP #89-2)
☐ 25. Volatile Organic Analysis VOA—Water—GC/MS(ASP #89-1)	☒ 31. VOA—Soils/Sediments—GC/MS (ASP #89-1)
☐ 26. Pesticides/PCB's—Water—GC(ASP #89-3)	☐ 32. Pesticides/PCB's—Soils/Sediment—GC (ASP #89-3)
☐ 27. Metals—23 in Water	☐ 33. Metals—23 in Soil/Sediment
☐ 28. Cyanide—Water	☐ 34. Cyanide—Soils/Sediment
☐ 66. Dioxin-Water (ASP #89-4)	☐ 67. Dioxin-Soil/Sediment (ASP #89-4)
☐ 35. Other _____	

HAZARDOUS WASTES/RCRA ANALYSIS SW-846

☐ 36. EP Toxicity	☐ 37. EP Toxicity (Metals Only)	☐ 38. Ignitability
☐ 39. Corrosivity	☐ 40. VOA—(USEPA 8240-GC/MS)	☐ 41. BNA—(USEPA 8270-GC/MS)
☐ 42. Pesticides/PCB's (USEPA 8080)	☐ 43. TCLP	☐ 44. TCLP (Metals Only)
☐ 45. Reactivity	☐ 46. Dioxin (USEPA 8280)	☐ 47. Appendix IX
☐ 48. Other _____	☐ 63. Percent Solids	☐ 68. Metals—17 Hazardous

MUNICIPAL SLUDGE

☐ 49. RSGB-01	☐ 50. RSSR-01	☐ 51. RSGR-01	☐ 52. RSRB-01	☐ 53. RSRI-01 (EP Toxicity-Metals only + RSRR-01)
☐ 54. RSRO-01	☐ 55. RSSB-01	☐ 56. RSRR-01	☐ 57. RSRR-02	☐ 58. Other _____

COLLECTED BY:

J. G. Jones

TELEPHONE NUMBER:

518-457-1768

REGION NO:

1

CONTRACT LAB:

H₂N

COUNTY:

Wadsworth

SAMPLING DATE:

01/22/97

MILITARY TIME:

9:05

SAMPLE MATRIX:

- ☐ All ☒ Soil/Sediment ☐ Groundwater ☐ Surface Water ☐ Wastewater ☐ Other (Specify) _____

CASE NUMBER

R A 0 9 6 0 1 2 2

SDG NUMBER

SAMPLE NUMBER

B 0 0 2 1 2

CHECK FOR MS/MD

☐ This Sample

TYPE OF SAMPLE:

☐ Grab ☐ Composite ☐ Term _____☒ Check if there will be more samples with this SDG sent in this calendar weekReport via Category B unless checked ☐

SAMPLING POINT:

Check if field duplicate ☐ Outfall Number _____ Check if sampling is part of inspection ☐

SPDES NUMBER/REGISTRY NUMBER

FLOW

GPO

WGD

A 0014

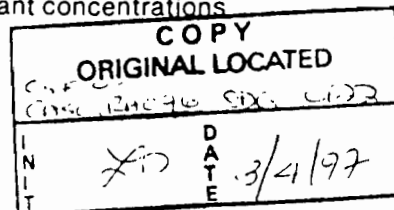
NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
CONTRACT LAB SAMPLE INFORMATION SHEET

Print legibly

Part 3

CAUTION (check if applicable)

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Place QA Label Here

CHECK THE BOX PRECEDING THE REQUESTED ANALYSIS**PRIORITY POLLUTANTS (Water Part 136)—SPDES**

☐ 2. 13 PP Metals	☐ 3. Volatiles—(USEPA 624 GC/MS)	☐ 6. Pesticides/PCB's (USEPA 608-GC)
☐ 4. Acids Base/Neutrals (USEPA 625-GC/MS)	☐ 5. Cyanide	☐ 9. BOD
☐ 7. Halogenated Volatiles (USEPA 601-GC)	☐ 8. Aromatic Volatiles (USEPA 602-GC)	☐ 12. TSS
☐ 10. pH	☐ 11. COD	☐ 15. Ammonia
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☐ 16. Nitrate/Nitrite	☐ 17. Total Phosphorus	☐ 21. Total Phenols
☐ 19. Oil/Grease	☐ 20. TOC	☐ 60. PCB's congener method
☐ 22. Other _____	☐ 59. PCB's at 0.065 ug/L	☐ 64. Total Solids
	☐ 62. CBOD	☐ 65. Volatiles (USEPA 524.2 GC/MS)

CONTRACT LABORATORY PROTOCOLS

☐ 23. (ALL)—Water—Includes 24-28	☐ 29. (ALL)—Soil/Sediments—Includes 30-34
☐ 24. Base/Neutral/Acid (B/N/A)—Water—GC/MS (ASP #89-2)	☐ 30. B/N/A—Soils/Sediment—GC/MS (ASP #89-2)
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☐ 26. Pesticides/PCB's—Water—GC(ASP #89-3)	☐ 32. Pesticides/PCB's—Soils/Sediment—GC (ASP #89-3)
☐ 27. Metals—23 in Water	☐ 33. Metals—23 in Soil/Sediment
☐ 28. Cyanide—Water	☐ 34. Cyanide—Soils/Sediment
☐ 66. Dioxin—Water (ASP #89-4)	☐ 67. Dioxin—Soil/Sediment (ASP #89-4)
☐ 35. Other _____	

HAZARDOUS WASTES/RCRA ANALYSIS SW-846

☐ 36. EP Toxicity	☐ 37. EP Toxicity (Metals Only)	☐ 38. Ignitability
☐ 39. Corrosivity	☐ 40. VOA—(USEPA 8240-GC/MS)	☐ 41. BNA—(USEPA 8270-GC/MS)
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☐ 45. Reactivity	☐ 46. Dioxin (USEPA 8280)	☐ 47. Appendix IX
☐ 48. Other _____	☐ 63. Percent Solids	☐ 68. Metals—17 Hazardous

MUNICIPAL SLUDGE

☐ 49. RSGB-01	☐ 50. RSSR-01	☐ 51. RSGR-01	☐ 52. RSRB-01	☐ 53. RSRI-01 (EP Toxicity-Metals only + RSRR-01)
☐ 54. RSRO-01	☐ 55. RSSB-01	☐ 56. RSRR-01	☐ 57. RSRR-02	☐ 58. Other _____

COLLECTED BY:

J.C. Jones

TELEPHONE NUMBER:

516-457-1708

REGION NO:

1

CONTRACT LAB:

H.C.N.

COUNTY:

Nassau

SAMPLING DATE:

6/12/97

MILITARY TIME:

9:15

SAMPLE MATRIX:

- ☐ All ☒ Soil/Sediment ☐ Groundwater ☐ Surface Water ☐ Wastewater ☐ Other (Specify) _____

CASE NUMBER

SDG NUMBER

SAMPLE NUMBER

CHECK FOR MS/MD

TYPE OF SAMPLE

Grab

C.A.C. 96

0122

B60213

This Sample

Composite

Term _____ hrs

☒ Check if there will be more samples with this SDG sent in this calendar week.Report via Category B, unless checked ☐

SAMPLING POINT

Check if field duplicate ☐

Outfall Number

Check if sampling is part of inspection ☐

SPDES NUMBER/REGISTRY NUMBER

FLOW

GPD
MGD

A 0015



NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION CONTRACT LAB SAMPLE INFORMATION SHEET

Print legibly

Part 3

CAUTION (check if applicable)

- ☐ Lab Personnel are expected to use caution when handling DEC samples, however, please use special precautions when handling this sample since it is believed to contain significant concentrations of hazardous and/or toxic material(s).

Place QA Label Here

COPY	
ORIGINAL LOCATED	
3/12/97 DEC 26 SDG 101-27	
IN	DATE
✓	3/4/97

CHECK THE BOX PRECEDING THE REQUESTED ANALYSIS

PRIORITY POLLUTANTS (Water Part 136)—SPDES

☐ 2. 13 PP Metals	☐ 3. Volatiles—(USEPA 624 GC/MS)	☐ 6. Pesticides/PCB's (USEPA 608-GC)
☐ 4. Acids Base/Neutrals (USEPA 625-GC/MS)	☐ 5. Cyanide	☐ 9. BOD
☐ 7. Halogenated Volatiles (USEPA 601-GC)	☐ 8. Aromatic Volatiles (USEPA 602-GC)	☐ 12. TSS
☐ 10. pH	☐ 11. COD	☐ 15. Ammonia
☐ 13. Settleable Solids	☐ 14. TKN	☐ 18. Reactive Phosphorus
☐ 16. Nitrate/Nitrite	☐ 17. Total Phosphorus	☐ 21. Total Phenols
☐ 19. Oil/Grease	☐ 20. TOC	☐ 60. PCB's congener method
☐ 22. Other _____	☐ 59. PCB's at 0.065 ug/L	☐ 64. Total Solids
	☐ 62. CBOD	☐ 65. Volatiles (USEPA 524.2 GC/MS)

CONTRACT LABORATORY PROTOCOLS

☐ 23. (ALL)—Water—Includes 24-28	☐ 29. (ALL)— Soil/Sediments—Includes 30-34
☐ 24. Base/Neutral/Acid (B/N/A)—Water—GC/MS (ASP #89-2)	☒ 30. B/N/A—Soils/Sediment—GC/MS (ASP #89-2)
☐ 25. Volatile Organic Analysis VOA—Water—GC/MS(ASP #89-1)	☐ 31. VOA—Soils/Sediments—GC/MS (ASP #89-1)
☐ 26. Pesticides/PCB's—Water—GC(ASP #89-3)	☐ 32. Pesticides/PCB's—Soils/Sediment—GC (ASP #89-3)
☐ 27. Metals—23 in Water	☐ 33. Metals—23 in Soil/Sediment
☐ 28. Cyanide—Water	☐ 34. Cyanide—Soils/Sediment
☐ 66. Dioxin-Water (ASP #89-4)	☐ 67. Dioxin-Soil/Sediment (ASP #89-4)
☐ 35. Other _____	

HAZARDOUS WASTES/RCRA ANALYSIS SW-846

☐ 36. EP Toxicity	☐ 37. EP Toxicity (Metals Only)	☐ 38. Ignitability
☐ 39. Corrosivity	☐ 40. VOA—(USEPA 8240-GC/MS)	☐ 41. BNA—(USEPA 8270-GC/MS)
☐ 42. Pesticides/PCB's (USEPA 8080)	☐ 43. TCLP	☐ 44. TCLP (Metals Only)
☐ 45. Reactivity	☐ 46. Dioxin (USEPA 8280)	☐ 47. Appendix IX
☐ 48. Other _____	☐ 63. Percent Solids	☐ 68. Metals—17 Hazardous

MUNICIPAL SLUDGE

☐ 49. RSGB-01	☐ 50. RSSR-01	☐ 51. RSGR-01	☐ 52. RSRB-01	☐ 53. RSRI-01 (EP Toxicity-Metals only + RSRR-01)
☐ 54. RSRO-01	☐ 55. RSSB-01	☐ 56. RSRR-01	☐ 57. RSRR-02	☐ 58. Other _____

COLLECTED BY:

J. G. Jones

TELEPHONE NUMBER:

518-457-9702

REGION NO

1

CONTRACT LAB:

H. N.

COUNTY

Nassau

SAMPLING DATE

01/22/97

MILITARY TIME

9:20

SAMPLE MATRIX

- ☐ Air ☒ Soil/Sediment ☐ Groundwater ☐ Surface Water ☐ Wastewater ☐ Other (Specify) _____

CASE NUMBER

SDG NUMBER

SAMPLE NUMBER

CHECK FOR MS/MD

TYPE OF SAMPLE

Grab

RA 0900122

B00214

☐ This Sample☐ Composite☐ Term _____☒ Check if there will be more samples with this SDG sent in this calendar week☐ Report via Category B, unless checked

SAMPLING POINT

Check if field duplicate ☐ Outfall Number _____ Check if sampling is part of inspection ☐

SPDES NUMBER/REGISTRY NUMBER

FLOW

A 0016

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
CONTRACT LAB SAMPLE INFORMATION SHEET

Part 3

Print legibly

CAUTION (check if applicable)

- ☐ Lab Personnel are expected to use caution when handling DEC samples, however, please use special precautions when handling this sample since it is believed to contain significant concentrations of hazardous and/or toxic material(s).

COPY	
ORIGINAL LOCATED	
Lab. Sample ID: C122	
INITIALS	DATE
XO	3/4/97

Place QA Label Here

CHECK THE BOX PRECEDING THE REQUESTED ANALYSIS**PRIORITY POLLUTANTS (Water Part 136)—SPDES**

☐ 2. 13 PP Metals	☐ 3. Volatiles—(USEPA 624 GC/MS)	☐ 6. Pesticides/PCB's (USEPA 608-GC)
☐ 4. Acids Base/Neutrals (USEPA 625-GC/MS)	☐ 5. Cyanide	☐ 9. BOD
☐ 7. Halogenated Volatiles (USEPA 601-GC)	☐ 8. Aromatic Volatiles (USEPA 602-GC)	☐ 12. TSS
☐ 10. pH	☐ 11. COD	☐ 15. Ammonia
☐ 13. Settleable Solids	☐ 14. TKN	☐ 18. Reactive Phosphorus
☐ 16. Nitrate/Nitrite	☐ 17. Total Phosphorus	☐ 21. Total Phenols
☐ 19. Oil/Grease	☐ 20. TOC	☐ 60. PCB's congener method
☐ 22. Other _____	☐ 59. PCB's at 0.065 ug/L	☐ 64. Total Solids
	☐ 62. CBOD	☐ 65. Volatiles (USEPA 524.2 GC/MS)

CONTRACT LABORATORY PROTOCOLS

☐ 23. (ALL)—Water—Includes 24-28	☐ 29. (ALL)— Soil/Sediments—Includes 30-34
☐ 24. Base/Neutral/Acid (B/N/A)—Water—GC/MS (ASP #89-2)	☐ 30. B/N/A—Soils/Sediment—GC/MS (ASP #89-2)
☐ 25. Volatile Organic Analysis VOA—Water—GC/MS(ASP #89-1)	☒ 31. VOA—Soils/Sediments—GC/MS (ASP #89-1)
☐ 26. Pesticides/PCB's—Water—GC(ASP #89-3)	☐ 32. Pesticides/PCB's—Soils/Sediment—GC (ASP #89-3)
☐ 27. Metals—23 in Water	☐ 33. Metals—23 in Soil/Sediment
☐ 28. Cyanide—Water	☐ 34. Cyanide—Soils/Sediment
☐ 66. Dioxin-Water (ASP #89-4)	☐ 67. Dioxin-Soil/Sediment (ASP #89-4)
☐ 35. Other _____	

HAZARDOUS WASTES/RCRA ANALYSIS SW-846

☐ 36. EP Toxicity	☐ 37. EP Toxicity (Metals Only)	☐ 38. Ignitability
☐ 39. Corrosivity	☐ 40. VOA—(USEPA 8240-GC/MS)	☐ 41. BNA—(USEPA 8270-GC/MS)
☐ 42. Pesticides/PCB's (USEPA 8080)	☐ 43. TCLP	☐ 44. TCLP (Metals Only)
☐ 45. Reactivity	☐ 46. Dioxin (USEPA 8280)	☐ 47. Appendix IX
☐ 48. Other _____	☐ 63. Percent Solids	☐ 68. Metals—17 Hazardous

MUNICIPAL SLUDGE

☐ 49. RSGB-01	☐ 50. RSSR-01	☐ 51. RSGR-01	☐ 52. RSRB-01	☐ 53. RSRI-01 (EP Toxicity-Metals only + RSRR-01)
☐ 54. RSRO-01	☐ 55. RSSB-01	☐ 56. RSRR-01	☐ 57. RSRR-02	☐ 58. Other _____

COLLECTED BY

TELEPHONE NUMBER:

REGION NO

CONTRACT LAB:

COUNTY

SAMPLING DATE:

MILITARY TIME:

SAMPLE MATRIX

- ☐ All ☒ Soil/Sediment ☐ Groundwater ☐ Surface Water ☐ Wastewater ☐ Other (Specify) _____

CASE NUMBER

SDG NUMBER

SAMPLE NUMBER

CHECK FOR MS/MD

TYPE OF SAMPLE

☐ Grab

RAC96

01222

R602

☐ This Sample☐ Composite☐ Term _____ hrs☒ Check if there will be more samples with this SDG sent in this calendar week☐ Report via Category B unless checked

SAMPLING POINT

Check if field duplicate ☐

Outfall Number

Check if sampling is part of inspection ☐

SPOES NUMBER REGISTRY NUMBER

FLAW 0017

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

CONTRACT LAB SAMPLE INFORMATION SHEET

Print legibly

Part 3

CAUTION (check if applicable)

- ☐ Lab Personnel are expected to use caution when handling DEC samples, however, please use special precautions when handling this sample since it is believed to contain significant concentrations of hazardous and/or toxic material(s).

Place QA Label Here

COPY	
ORIGINAL LOCATED	
CML 226-26 300-0102	
IN	DATE
3/1	3/4/97

CHECK THE BOX PRECEDING THE REQUESTED ANALYSIS**PRIORITY POLLUTANTS (Water Part 136)—SPDES**

☐ 2. 13 PP Metals	☐ 3. Volatiles—(USEPA 624 GC/MS)	☐ 6. Pesticides/PCB's (USEPA 608-GC)
☐ 4. Acids Base/Neutrals (USEPA 625-GC/MS)	☐ 5. Cyanide	☐ 9. BOD
☐ 7. Halogenated Volatiles (USEPA 601-GC)	☐ 8. Aromatic Volatiles (USEPA 602-GC)	☐ 12. TSS
☐ 10. pH	☐ 11. COD	☐ 15. Ammonia
☐ 13. Settleable Solids	☐ 14. TKN	☐ 18. Reactive Phosphorus
☐ 16. Nitrate/Nitrite	☐ 17. Total Phosphorus	☐ 21. Total Phenols
☐ 19. Oil/Grease	☐ 20. TOC	☐ 60. PCB's congener method
☐ 22. Other _____	☐ 59. PCB's at 0.065 ug/L	☐ 64. Total Solids
	☐ 62. CBOD	☐ 65. Volatiles (USEPA 524.2 GC/MS)

CONTRACT LABORATORY PROTOCOLS

☐ 23. (ALL)—Water—Includes 24-28	☐ 29. (ALL)—Soil/Sediments—Includes 30-34
☐ 24. Base/Neutral/Acid (B/N/A)—Water—GC/MS (ASP #89-2)	☐ 30. B/N/A—Soils/Sediment—GC/MS (ASP #89-2)
☐ 25. Volatile Organic Analysis VOA—Water—GC/MS(ASP #89-1)	☒ 31. VOA—Soils/Sediments—GC/MS (ASP #89-1)
☐ 26. Pesticides/PCB's—Water—GC(ASP #89-3)	☐ 32. Pesticides/PCB's—Soils/Sediment—GC (ASP #89-3)
☐ 27. Metals—23 in Water	☐ 33. Metals—23 in Soil/Sediment
☐ 28. Cyanide—Water	☐ 34. Cyanide—Soils/Sediment
☐ 66. Dioxin-Water (ASP #89-4)	☐ 67. Dioxin-Soil/Sediment (ASP #89-4)
☐ 35. Other _____	

HAZARDOUS WASTES/RCRA ANALYSIS SW-846

☐ 36. EP Toxicity	☐ 37. EP Toxicity (Metals Only)	☐ 38. Ignitability
☐ 39. Corrosivity	☐ 40. VOA—(USEPA 8240-GC/MS)	☐ 41. BNA—(USEPA 8270-GC/MS)
☐ 42. Pesticides/PCB's (USEPA 8080)	☐ 43. TCLP	☐ 44. TCLP (Metals Only)
☐ 45. Reactivity	☐ 46. Dioxin (USEPA 8280)	☐ 47. Appendix IX
☐ 48. Other _____	☐ 63. Percent Solids	☐ 68. Metals—17 Hazardous

MUNICIPAL SLUDGE

☐ 49. RSGB-01	☐ 50. RSSR-01	☐ 51. RSGR-01	☐ 52. RSRB-01	☐ 53. RSRI-01 (EP Toxicity-Metals only + RSRR-01)
☐ 54. RSRO-01	☐ 55. RSSB-01	☐ 56. RSRR-01	☐ 57. RSRR-02	☐ 58. Other _____

COLLECTED BY:

J. G. Jones

TELEPHONE NUMBER:

518-451-1708

REGION NO:

1

CONTRACT LAB

H, N

COUNTY:

Nassau

SAMPLING DATE:

01/22/97

MILITARY TIME

9:50

SAMPLE MATRIX:

- ☐ Air ☒ Soil/Sediment ☐ Groundwater ☐ Surface Water ☐ Wastewater ☐ Other (Specify) _____

CASE NUMBER

RA04601122

SDG NUMBER

R60216

CHECK FOR MS/MD

☐ This Sample

TYPE OF SAMPLE:

☐ Composite☐ Grab☐ Term _____ hrs☒ Check if there will be more samples with this SDG sent in this calendar week

Report via Category B, unless checked _____

SAMPLING POINT

Check if field duplicate ☐

Outfall Number

Check if sampling is part of inspection ☐

SPDES NUMBER REGISTRY NUMBER

A-0018

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

CONTRACT LAB SAMPLE INFORMATION SHEET

Part 3

Print legibly

CAUTION (check if applicable)

- ☐ Lab Personnel are expected to use caution when handling DEC samples, however, please use special precautions when handling this sample since it is believed to contain significant concentrations of hazardous and/or toxic material(s).

Copy
ORIGINAL LOCATED
Case 12046 SDG 1912
IN T X DATE 3/4/77

Place QA Label Here

CHECK THE BOX PRECEDING THE REQUESTED ANALYSIS

PRIORITY POLLUTANTS (Water Part 136)—SPDES

☐ 2. 13 PP Metals	☐ 3. Volatiles—(USEPA 624 GC/MS)	☐ 6. Pesticides/PCB's (USEPA 608-GC)
☐ 4. Acids Base/Neutrals (USEPA 625-GC/MS)	☐ 5. Cyanide	☐ 9. BOD
☐ 7. Halogenated Volatiles (USEPA 601-GC)	☐ 8. Aromatic Volatiles (USEPA 602-GC)	☐ 12. TSS
☐ 10. pH	☐ 11. COD	☐ 15. Ammonia
☐ 13. Settleable Solids	☐ 14. TKN	☐ 18. Reactive Phosphorus
☐ 16. Nitrate/Nitrite	☐ 17. Total Phosphorus	☐ 21. Total Phenols
☐ 19. Oil/Grease	☐ 20. TOC	☐ 60. PCB's congener method
☐ 22. Other _____	☐ 59. PCB's at 0.065 ug/L	☐ 64. Total Solids
	☐ 62. CBOD	☐ 65. Volatiles (USEPA 524.2 GC/MS)

CONTRACT LABORATORY PROTOCOLS

☐ 23. (ALL)—Water—Includes 24-28	☐ 29. (ALL)— Soil/Sediments—Includes 30-34
☐ 24. Base/Neutral/Acid (B/N/A)—Water—GC/MS (ASP #89-2)	☐ 30. B/N/A—Soils/Sediment—GC/MS (ASP #89-2)
☐ 25. Volatile Organic Analysis VOA—Water—GC/MS(ASP #89-1)	☒ 31. VOA—Soils/Sediments—GC/MS (ASP #89-1)
☐ 26. Pesticides/PCB's—Water—GC(ASP #89-3)	☐ 32. Pesticides/PCB's—Soils/Sediment—GC (ASP #89-3)
☐ 27. Metals—23 in Water	☐ 33. Metals—23 in Soil/Sediment
☐ 28. Cyanide—Water	☐ 34. Cyanide—Soils/Sediment
☐ 66. Dioxin-Water (ASP #89-4)	☐ 67. Dioxin-Soil/Sediment (ASP #89-4)
☐ 35. Other _____	

HAZARDOUS WASTES/RCRA ANALYSIS SW-846

☐ 36. EP Toxicity	☐ 37. EP Toxicity (Metals Only)	☐ 38. Ignitability
☐ 39. Corrosivity	☐ 40. VOA—(USEPA 8240-GC/MS)	☐ 41. BNA—(USEPA 8270-GC/MS)
☐ 42. Pesticides/PCB's (USEPA 8080)	☐ 43. TCLP	☐ 44. TCLP (Metals Only)
☐ 45. Reactivity	☐ 46. Dioxin (USEPA 8280)	☐ 47. Appendix IX
☐ 48. Other _____	☐ 63. Percent Solids	☐ 68. Metals—17 Hazardous

MUNICIPAL SLUDGE

☐ 49. RSG-01	☐ 50. RSSR-01	☐ 51. RSGR-01	☐ 52. RSRB-01	☐ 53. RSRI-01 (EP Toxicity-Metals only + RSRR-01)
☐ 54. RSRO-01	☐ 55. RSSB-01	☐ 56. RSRR-01	☐ 57. RSRR-02	☐ 58. Other _____

COLLECTED BY:

J. S. Jones

TELEPHONE NUMBER:

518-457-1708

REGION NO:

1

CONTRACT LAB:

H. N

COUNTY:

Nassau

SAMPLING DATE:

01/22/97

MILITARY TIME:

10:05

SAMPLE MATRIX:

- ☐ Air ☒ Soil/Sediment ☐ Groundwater ☐ Surface Water ☐ Wastewater ☐ Other (Specify) _____

CASE NUMBER

SDG NUMBER

SAMPLE NUMBER

CHECK FOR MS/MD

TYPE OF SAMPLE:

☐ Grab☐ Term _____ nrs

24096

0122

B00217

☐ This Sample☐ Composite☒ Check if there will be more samples with this SDG sent in this calendar week☐ Report via Category B, unless checked ☐

SAMPLING POINT:

Check if field duplicate ☐

Outfall Number

Check if sampling is part of inspection ☐

SPDES NUMBER/REGISTRY NUMBER

FLOW

GPD

MGD

A 0019



NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

CONTRACT LAB SAMPLE INFORMATION SHEET

Print legibly

Part 3

CAUTION (check if applicable)

- ☐ Lab Personnel are expected to use caution when handling DEC samples, however, please use special precautions when handling this sample since it is believed to contain significant concentrations of hazardous and/or toxic material(s).

COPY	
ORIGINAL LOCATED	
CASE: 210-6-51X-0122	
INITIALS	DATE
XS	3/1/97

Place QA Label Here

CHECK THE BOX PRECEDING THE REQUESTED ANALYSIS

PRIORITY POLLUTANTS (Water Part 136)—SPDES

☐ 2. 13 PP Metals	☐ 3. Volatiles—(USEPA 624 GC/MS)	☐ 6. Pesticides/PCB's (USEPA 608-GC)
☐ 4. Acids Base/Neutrals (USEPA 625-GC/MS)	☐ 5. Cyanide	☐ 9. BOD
☐ 7. Halogenated Volatiles (USEPA 601-GC)	☐ 8. Aromatic Volatiles (USEPA 602-GC)	☐ 12. TSS
☐ 10. pH	☐ 11. COD	☐ 15. Ammonia
☐ 13. Settleable Solids	☐ 14. TKN	☐ 18. Reactive Phosphorus
☐ 16. Nitrate/Nitrite	☐ 17. Total Phosphorus	☐ 21. Total Phenols
☐ 19. Oil/Grease	☐ 20. TOC	☐ 60. PCB's congener method
☐ 22. Other _____	☐ 59. PCB's at 0.065 ug/L	☐ 64. Total Solids
	☐ 62. CBOD	☐ 65. Volatiles (USEPA 524.2 GC/MS)

CONTRACT LABORATORY PROTOCOLS

☐ 23. (ALL)—Water—Includes 24-28	☐ 29. (ALL)— Soil/Sediments—Includes 30-34
☐ 24. Base/Neutral/Acid (B/N/A)—Water—GC/MS (ASP #89-2)	☐ 30. B/N/A/—Soils/Sediment—GC/MS (ASP #89-2)
☐ 25. Volatile Organic Analysis VOA—Water—GC/MS(ASP #89-1)	☒ 31. VOA—Soils/Sediments—GC/MS (ASP #89-1)
☐ 26. Pesticides/PCB's—Water—GC(ASP #89-3)	☐ 32. Pesticides/PCB's—Soils/Sediment—GC (ASP #89-3)
☐ 27. Metals—23 in Water	☐ 33. Metals—23 in Soil/Sediment
☐ 28. Cyanide—Water	☐ 34. Cyanide—Soils/Sediment
☐ 66. Dioxin-Water (ASP #89-4)	☐ 67. Dioxin-Soil/Sediment (ASP #89-4)
☐ 35. Other _____	

HAZARDOUS WASTES/RCRA ANALYSIS SW-846

☐ 36. EP Toxicity	☐ 37. EP Toxicity (Metals Only)	☐ 38. Ignitability
☐ 39. Corrosivity	☐ 40. VOA—(USEPA 8240-GC/MS)	☐ 41. BNA—(USEPA 8270-GC/MS)
☐ 42. Pesticides/PCB's (USEPA 8080)	☐ 43. TCLP	☐ 44. TCLP (Metals Only)
☐ 45. Reactivity	☐ 46. Dioxin (USEPA 8280)	☐ 47. Appendix IX
☐ 48. Other _____	☐ 63. Percent Solids	☐ 68. Metals—17 Hazardous

MUNICIPAL SLUDGE

☐ 49. RSGB-01	☐ 50. RSSR-01	☐ 51. RSGR-01	☐ 52. RSRB-01	☐ 53. RSRI-01 (EP Toxicity-Metals only + RSSR-01)
☐ 54. RSRO-01	☐ 55. RSSB-01	☐ 56. RSRR-01	☐ 57. RSRR-02	☐ 58. Other _____

COLLECTED BY:

J. G. Jones

TELEPHONE NUMBER:

518-457-1708

REGION NO:

1

CONTRACT LAB:

H₂N

COUNTY:

Nassau

SAMPLING DATE:

01/22/97

MILITARY TIME:

11:00

SAMPLE MATRIX:

- ☐ Air ☒ Soil/Sediment ☐ Groundwater ☐ Surface Water ☐ Wastewater ☐ Other (Specify) _____

CASE NUMBER

RA0910

SDG NUMBER

0122

SAMPLE NUMBER

B00218

CHECK FOR MS/MD

☐ This Sample

TYPE OF SAMPLE:

☐ Grab ☐ Composite ☐ Term _____ hrs☒ Check if there will be more samples with this SDG sent in this calendar weekReport via Category B, unless checked ☐

SAMPLING POINT:

Check if field duplicate ☐

Outfall Number

Check if sampling is part of inspection ☐

SPDES NUMBER/REGISTRY NUMBER

FLOW

A 0026 GPD

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

CONTRACT LAB SAMPLE INFORMATION SHEET

Part 3

Print legibly

CAUTION (check if applicable)

- ☐ Lab Personnel are expected to use caution when handling DEC samples, however, please use special precautions when handling this sample since it is believed to contain significant concentrations of hazardous and/or toxic material(s).

COPY ORIGINAL LOCATED CSP 2246-6-22-1-33	
DATE 3/4/77	INITIALS [Signature]

Place QA Label Here

CHECK THE BOX PRECEDING THE REQUESTED ANALYSIS**PRIORITY POLLUTANTS (Water Part 136)—SPDES**

☐ 2. 13 PP Metals	☐ 3. Volatiles—(USEPA 624 GC/MS)	☐ 6. Pesticides/PCB's (USEPA 608-GC)
☐ 4. Acids Base/Neutrals (USEPA 625-GC/MS)	☐ 5. Cyanide	☐ 9. BOD
☐ 7. Halogenated Volatiles (USEPA 601-GC)	☐ 8. Aromatic Volatiles (USEPA 602-GC)	☐ 12. TSS
☐ 10. pH	☐ 11. COD	☐ 15. Ammonia
☐ 13. Settleable Solids	☐ 14. TKN	☐ 18. Reactive Phosphorus
☐ 16. Nitrate/Nitrite	☐ 17. Total Phosphorus	☐ 21. Total Phenols
☐ 19. Oil/Grease	☐ 20. TOC	☐ 60. PCB's congener method
☐ 22. Other _____	☐ 59. PCB's at 0.065 ug/L	☐ 64. Total Solids
	☐ 62. CBOD	☐ 65. Volatiles (USEPA 524.2 GC/MS)

CONTRACT LABORATORY PROTOCOLS

☐ 23. (ALL)—Water—Includes 24-28	☐ 29. (ALL)— Soil/Sediments—Includes 30-34
☐ 24. Base/Neutral/Acid (B/N/A)—Water—GC/MS (ASP #89-2)	☐ 30. B/N/A—Soils/Sediment—GC/MS (ASP #89-2)
☐ 25. Volatile Organic Analysis VOA—Water—GC/MS(ASP #89-1)	☐ 31. VOA—Soils/Sediments—GC/MS (ASP #89-1)
☐ 26. Pesticides/PCB's—Water—GC(ASP #89-3)	☐ 32. Pesticides/PCB's—Soils/Sediment—GC (ASP #89-3)
☐ 27. Metals—23 in Water	☒ 33. Metals—23 in Soil/Sediment
☐ 28. Cyanide—Water	☐ 34. Cyanide—Soils/Sediment
☐ 66. Dioxin—Water (ASP #89-4)	☐ 67. Dioxin—Soil/Sediment (ASP #89-4)
☐ 35. Other _____	

HAZARDOUS WASTES/RCRA ANALYSIS SW-846

☐ 36. EP Toxicity	☐ 37. EP Toxicity (Metals Only)	☐ 38. Ignitability
☐ 39. Corrosivity	☐ 40. VOA—(USEPA 8240-GC/MS)	☐ 41. BNA—(USEPA 8270-GC/MS)
☐ 42. Pesticides/PCB's (USEPA 8080)	☐ 43. TCLP	☐ 44. TCLP (Metals Only)
☐ 45. Reactivity	☐ 46. Dioxin (USEPA 8280)	☐ 47. Appendix IX
☐ 48. Other _____	☐ 63. Percent Solids	☐ 68. Metals—17 Hazardous

MUNICIPAL SLUDGE

☐ 49. RSGB-01	☐ 50. RSSR-01	☐ 51. RSGR-01	☐ 52. RSRB-01	☐ 53. RSRI-01 (EP Toxicity-Metals only + RSRR-01)
☐ 54. RSRO-01	☐ 55. RSSB-01	☐ 56. RSRR-01	☐ 57. RSRR-02	☐ 58. Other _____

COLLECTED BY:

J.G. Jones

TELEPHONE NUMBER:

518-457-1708

REGION NO:

1

CONTRACT LAB:

H2N

COUNTY:

Nassau

SAMPLING DATE:

3/12/97

MILITARY TIME:

11:00

SAMPLE MATRIX.

- ☐ Air ☒ Soil/Sediment ☐ Groundwater ☐ Surface Water ☐ Wastewater ☐ Other (Specify) _____

CASE NUMBER

RAC96

SDG NUMBER

0122

SAMPLE NUMBER

B60219

CHECK FOR MS/MD

☐ This Sample

TYPE OF SAMPLE:

☐ Grab☐ Composite☐ Term _____ hrs☒ Check if there will be more samples with this SDG sent in this calendar weekReport via Category B, unless checked ☐

SAMPLING POINT

Check if field duplicate ☐

Outfall Number

Check if sampling is part of inspection ☐

SPDES NUMBER/REGISTRY NUMBER

A 0021

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
CONTRACT LAB SAMPLE INFORMATION SHEET

Print legibly

Part 3

CAUTION (check if applicable)

- ☐ Lab Personnel are expected to use caution when handling DEC samples, however, please use special precautions when handling this sample since it is believed to contain significant concentrations of hazardous and/or toxic material(s).

COPY	
ORIGINAL LOCATED	
CHS 12040 SDG 122	
INITIALS	DATE
XD	3/4/97

Place QA Label Here

CHECK THE BOX PRECEDING THE REQUESTED ANALYSIS**PRIORITY POLLUTANTS (Water Part 136)—SPDES**

☐ 2. 13 PP Metals	☐ 3. Volatiles—(USEPA 624 GC/MS)	☐ 6. Pesticides/PCB's (USEPA 608-GC)
☐ 4. Acids Base/Neutrals (USEPA 625-GC/MS)	☐ 5. Cyanide	☐ 9. BOD
☐ 7. Halogenated Volatiles (USEPA 601-GC)	☐ 8. Aromatic Volatiles (USEPA 602-GC)	☐ 12. TSS
☐ 10. pH	☐ 11. COD	☐ 15. Ammonia
☐ 13. Settleable Solids	☐ 14. TKN	☐ 18. Reactive Phosphorus
☐ 16. Nitrate/Nitrite	☐ 17. Total Phosphorus	☐ 21. Total Phenols
☐ 19. Oil/Grease	☐ 20. TOC	☐ 60. PCB's congener method
☐ 22. Other _____	☐ 59. PCB's at 0.065 ug/L	☐ 64. Total Solids
	☐ 62. CBOD	☐ 65. Volatiles (USEPA 524.2 GC/MS)

CONTRACT LABORATORY PROTOCOLS

☐ 23. (ALL)—Water—Includes 24-28	☐ 29. (ALL)—Soil/Sediments—Includes 30-34
☐ 24. Base/Neutral/Acid (B/N/A)—Water—GC/MS (ASP #89-2)	☐ 30. B/N/A—Soils/Sediment—GC/MS (ASP #89-2)
☒ 25. Volatile Organic Analysis VOA—Water—GC/MS (ASP #89-1)	☐ 31. VOA—Soils/Sediments—GC/MS (ASP #89-1)
☐ 26. Pesticides/PCB's—Water—GC (ASP #89-3)	☐ 32. Pesticides/PCB's—Soils/Sediment—GC (ASP #89-3)
☐ 27. Metals—23 in Water	☐ 33. Metals—23 in Soil/Sediment
☐ 28. Cyanide—Water	☐ 34. Cyanide—Soils/Sediment
☐ 66. Dioxin-Water (ASP #89-4)	☐ 67. Dioxin-Soil/Sediment (ASP #89-4)
☐ 35. Other _____	

HAZARDOUS WASTES/RCRA ANALYSIS SW-846

☐ 36. EP Toxicity	☐ 37. EP Toxicity (Metals Only)	☐ 38. Ignitability
☐ 39. Corrosivity	☐ 40. VOA—(USEPA 8240-GC/MS)	☐ 41. BNA—(USEPA 8270-GC/MS)
☐ 42. Pesticides/PCB's (USEPA 8080)	☐ 43. TCLP	☐ 44. TCLP (Metals Only)
☐ 45. Reactivity	☐ 46. Dioxin (USEPA 8280)	☐ 47. Appendix IX
☐ 48. Other _____	☐ 63. Percent Solids	☐ 68. Metals—17 Hazardous

MUNICIPAL SLUDGE

☐ 49. RSG-01	☐ 50. RSSR-01	☐ 51. RSGR-01	☐ 52. RSRB-01	☐ 53. RSRI-01 (EP Toxicity-Metals only + RSRR-01)
☐ 54. RSRO-01	☐ 55. RSSB-01	☐ 56. RSRR-01	☐ 57. RSRR-02	☐ 58. Other _____

COLLECTED BY:

JL Jones

TELEPHONE NUMBER:

518-457-1708

REGION NO:

CONTRACT LAB:

H M

COUNTY:

Nassau

SAMPLING DATE:

1-22-97

MILITARY TIME:

14:45

SAMPLE MATRIX:

- ☐ All ☐ Soil/Sediment ☒ Groundwater ☐ Surface Water ☐ Wastewater ☐ Other (Specify) _____

CASE NUMBER

SDG NUMBER

SAMPLE NUMBER

CHECK FOR MS/MD

TYPE OF SAMPLE

☐ Grab

RAC 900122

BG 0220

☐ This Sample☐ Composite☐ Term _____ hrs☒ Check if there will be more samples with this SDG sent in this calendar weekReport via Category B unless checked ☐

SAMPLING POINT:

Check if field duplicate ☐

Outfall Number

Check if sampling is part of inspection ☐

SPDES NUMBER/REGISTRY NUMBER

A FL 0022 GPO WGO

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

CONTRACT LAB SAMPLE INFORMATION SHEET

Part 3

Print legibly

CAUTION (check if applicable)

- ☐ Lab Personnel are expected to use caution when handling DEC samples, however, please use special precautions when handling this sample since it is believed to contain significant concentrations of hazardous and/or toxic material(s).

COPY	
ORIGINAL LOCATED	
INSTRUMENT	
DATE	3/4/97

Place QA Label Here

CHECK THE BOX PRECEDING THE REQUESTED ANALYSIS**PRIORITY POLLUTANTS (Water Part 136)—SPDES**

☐ 2. 13 PP Metals	☐ 3. Volatiles—(USEPA 624 GC/MS)	☐ 6. Pesticides/PCB's (USEPA 608-GC)
☐ 4. Acids Base/Neutrals (USEPA 625-GC/MS)	☐ 5. Cyanide	☐ 9. BOD
☐ 7. Halogenated Volatiles (USEPA 601-GC)	☐ 8. Aromatic Volatiles (USEPA 602-GC)	☐ 12. TSS
☐ 10. pH	☐ 11. COD	☐ 15. Ammonia
☐ 13. Settleable Solids	☐ 14. TKN	☐ 18. Reactive Phosphorus
☐ 16. Nitrate/Nitrite	☐ 17. Total Phosphorus	☐ 21. Total Phenols
☐ 19. Oil/Grease	☐ 20. TOC	☐ 60. PCB's congener method
☐ 22. Other _____	☐ 59. PCB's at 0.065 ug/L	☐ 64. Total Solids
	☐ 62. CBOD	☐ 65. Volatiles (USEPA 524.2 GC/MS)

CONTRACT LABORATORY PROTOCOLS

☐ 23. (ALL)—Water—Includes 24-28	☐ 29. (ALL)—Soil/Sediments—Includes 30-34
☐ 24. Base/Neutral/Acid (B/N/A)—Water—GC/MS (ASP #89-2)	☐ 30. B/N/A—Soils/Sediment—GC/MS (ASP #89-2)
☒ 25. Volatile Organic Analysis VOA—Water—GC/MS (ASP #89-1)	☐ 31. VOA—Soils/Sediments—GC/MS (ASP #89-1)
☐ 26. Pesticides/PCB's—Water—GC (ASP #89-3)	☐ 32. Pesticides/PCB's—Soils/Sediment—GC (ASP #89-3)
☐ 27. Metals—23 in Water	☐ 33. Metals—23 in Soil/Sediment
☐ 28. Cyanide—Water	☐ 34. Cyanide—Soils/Sediment
☐ 66. Dioxin—Water (ASP #89-4)	☐ 67. Dioxin—Soil/Sediment (ASP #89-4)
☐ 35. Other _____	

HAZARDOUS WASTES/RCRA ANALYSIS SW-846

☐ 36. EP Toxicity	☐ 37. EP Toxicity (Metals Only)	☐ 38. Ignitability
☐ 39. Corrosivity	☐ 40. VOA—(USEPA 8240-GC/MS)	☐ 41. BNA—(USEPA 8270-GC/MS)
☐ 42. Pesticides/PCB's (USEPA 8080)	☐ 43. TCLP	☐ 44. TCLP (Metals Only)
☐ 45. Reactivity	☐ 46. Dioxin (USEPA 8280)	☐ 47. Appendix IX
☐ 48. Other _____	☐ 63. Percent Solids	☐ 68. Metals—17 Hazardous

MUNICIPAL SLUDGE

☐ 49. RSGB-01	☐ 50. RSSR-01	☐ 51. RSGR-01	☐ 52. RSRB-01	☐ 53. RSRI-01 (EP Toxicity-Metals only + RSRR-01)
☐ 54. RSRO-01	☐ 55. RSSB-01	☐ 56. RSRR-01	☐ 57. RSRR-02	☐ 58. Other _____

COLLECTED BY:

J. Jones

TELEPHONE NUMBER:

516-451-1708

REGION NO:

1

CONTRACT LAB:H₂O**COUNTY:**

New York

SAMPLING DATE:

1-22-97

MILITARY TIME:

15:15

SAMPLE MATRIX:

- ☐ All ☐ Soil/Sediment ☒ Groundwater ☐ Surface Water ☐ Wastewater ☐ Other (Specify) _____

CASE NUMBER

RAC 96

SDG NUMBER

01122

SAMPLE NUMBER

B00221

CHECK FOR MS/MD☐ This Sample**TYPE OF SAMPLE:**☐ Grab ☐ Composite ☐ Term _____ hrs☒ Check if there will be more samples with this SDG sent in this calendar weekReport via Category B, unless checked ☐**SAMPLING POINT:**Check if field duplicate ☐

Outfall Number

Check if sampling is part of inspection ☐

SPDES NUMBER/REGISTRY NUMBER

FLOW GPD

A 0023



NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

CONTRACT LAB SAMPLE INFORMATION SHEET

Print legibly

Part 3

CAUTION (check if applicable)

- ☐ Lab Personnel are expected to use caution when handling DEC samples, however, please use special precautions when handling this sample since it is believed to contain significant concentrations of hazardous and/or toxic material(s).

COPY ORIGINAL LOCATED CIVIL ENGINE 502.010.2	
IN T	DATE 3/4/97

Place QA Label Here

CHECK THE BOX PRECEDING THE REQUESTED ANALYSIS

PRIORITY POLLUTANTS (Water Part 136)—SPDES

☐ 2. 13 PP Metals	☐ 3. Volatiles—(USEPA 624 GC/MS)	☐ 6. Pesticides/PCB's (USEPA 608-GC)
☐ 4. Acids Base/Neutrals (USEPA 625-GC/MS)	☐ 5. Cyanide	☐ 9. BOD
☐ 7. Halogenated Volatiles (USEPA 601-GC)	☐ 8. Aromatic Volatiles (USEPA 602-GC)	☐ 12. TSS
☐ 10. pH	☐ 11. COD	☐ 15. Ammonia
☐ 13. Settleable Solids	☐ 14. TKN	☐ 18. Reactive Phosphorus
☐ 16. Nitrate/Nitrite	☐ 17. Total Phosphorus	☐ 21. Total Phenols
☐ 19. Oil/Grease	☐ 20. TOC	☐ 60. PCB's congener method
☐ 22. Other _____	☐ 59. PCB's at 0.065 ug/L	☐ 64. Total Solids
	☐ 62. CBOD	☐ 65. Volatiles (USEPA 524.2 GC/MS)

CONTRACT LABORATORY PROTOCOLS

☐ 23. (ALL)—Water—Includes 24-28	☐ 29. (ALL)— Soil/Sediments—Includes 30-34
☐ 24. Base/Neutral/Acid (B/N/A)—Water—GC/MS (ASP #89-2)	☐ 30. B/N/A/—Soils/Sediment—GC/MS (ASP #89-2)
☒ 25. Volatile Organic Analysis VOA—Water—GC/MS(ASP #89-1)	☐ 31. VOA—Soils/Sediments—GC/MS (ASP #89-1)
☐ 26. Pesticides/PCB's—Water—GC(ASP #89-3)	☐ 32. Pesticides/PCB's—Soils/Sediment—GC (ASP #89-3)
☐ 27. Metals—23 in Water	☐ 33. Metals—23 in Soil/Sediment
☐ 28. Cyanide—Water	☐ 34. Cyanide—Soils/Sediment
☐ 66. Dioxin-Water (ASP #89-4)	☐ 67. Dioxin-Soil/Sediment (ASP #89-4)
☐ 35. Other _____	

HAZARDOUS WASTES/RCRA ANALYSIS SW-846

☐ 36. EP Toxicity	☐ 37. EP Toxicity (Metals Only)	☐ 38. Ignitability
☐ 39. Corrosivity	☐ 40. VOA—(USEPA 8240-GC/MS)	☐ 41. BNA—(USEPA 8270-GC/MS)
☐ 42. Pesticides/PCB's (USEPA 8080)	☐ 43. TCLP	☐ 44. TCLP (Metals Only)
☐ 45. Reactivity	☐ 46. Dioxin (USEPA 8280)	☐ 47. Appendix IX
☐ 48. Other _____	☐ 63. Percent Solids	☐ 68. Metals—17 Hazardous

MUNICIPAL SLUDGE

☐ 49. RSGB-01	☐ 50. RSSR-01	☐ 51. RSGR-01	☐ 52. RSRB-01	☐ 53. RSRI-01 (EP Toxicity-Metals only + RSRR-01)
☐ 54. RSRO-01	☐ 55. RSSB-01	☐ 56. RSRR-01	☐ 57. RSRR-02	☐ 58. Other _____

COLLECTED BY:

J. G. J.

TELEPHONE NUMBER:

518 457-1708

REGION NO

1

CONTRACT LAB:

H. N.

COUNTY

N. Y.

SAMPLING DATE:

1/22/97

MILITARY TIME:

15:50

SAMPLE MATRIX:

- ☐ Air ☐ Soil/Sediment ☒ Groundwater ☐ Surface Water ☐ Wastewater ☐ Other (Specify) _____

CASE NUMBER

R 0 9 6 0 1 2 2

SDG NUMBER

SAMPLE NUMBER

8 6 0 2 2 2

CHECK FOR MS/MD

☐ This Sample

TYPE OF SAMPLE:

☐ Composite☐ Grab☐ Term _____ hrs☒ Check if there will be more samples with this SDG sent in this calendar week☐ Report via Category B unless checked

SAMPLING POINT:

Check if field duplicate ☐

Outfall Number _____

Check if sampling is part of inspection ☐

SPDES NUMBER REGISTRY NUMBER

FLOW

A 0024 GPD

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
CONTRACT LAB SAMPLE INFORMATION SHEET

Part 3

Print legibly

CAUTION (check if applicable)

- ☐ Lab Personnel are expected to use caution when handling DEC samples, however, please use special precautions when handling this sample since it is believed to contain significant concentrations of hazardous and/or toxic material(s).

COPY
 ORIGINAL LOCATED

Case R446-S.D.C. 1022

INITIALS DATE 3/4/77

Place QA Label Here

CHECK THE BOX PRECEDING THE REQUESTED ANALYSIS**PRIORITY POLLUTANTS (Water Part 136)—SPDES**

☐ 2. 13 PP Metals	☐ 3. Volatiles—(USEPA 624 GC/MS)	☐ 6. Pesticides/PCB's (USEPA 608-GC)
☐ 4. Acids Base/Neutrals (USEPA 625-GC/MS)	☐ 5. Cyanide	☐ 9. BOD
☐ 7. Halogenated Volatiles (USEPA 601-GC)	☐ 8. Aromatic Volatiles (USEPA 602-GC)	☐ 12. TSS
☐ 10. pH	☐ 11. COD	☐ 15. Ammonia
☐ 13. Settleable Solids	☐ 14. TKN	☐ 18. Reactive Phosphorus
☐ 16. Nitrate/Nitrite	☐ 17. Total Phosphorus	☐ 21. Total Phenols
☐ 19. Oil/Grease	☐ 20. TOC	☐ 60. PCB's congener method
☐ 22. Other _____	☐ 59. PCB's at 0.065 ug/L	☐ 64. Total Solids
	☐ 62. CBOD	☐ 65. Volatiles (USEPA 524.2 GC/MS)

CONTRACT LABORATORY PROTOCOLS

☐ 23. (ALL)—Water—Includes 24-28	☐ 29. (ALL)— Soil/Sediments—Includes 30-34
☐ 24. Base/Neutral/Acid (B/N/A)—Water—GC/MS (ASP #89-2)	☐ 30. B/N/A—Soils/Sediment—GC/MS (ASP #89-2)
☐ 25. Volatile Organic Analysis VOA—Water—GC/MS(ASP #89-1)	☐ 31. VOA—Soils/Sediments—GC/MS (ASP #89-1)
☐ 26. Pesticides/PCB's—Water—GC(ASP #89-3)	☐ 32. Pesticides/PCB's—Soils/Sediment—GC (ASP #89-3)
☒ 27. Metals—23 in Water	☐ 33. Metals—23 in Soil/Sediment
☐ 28. Cyanide—Water	☐ 34. Cyanide—Soils/Sediment
☐ 66. Dioxin-Water (ASP #89-4)	☐ 67. Dioxin-Soil/Sediment (ASP #89-4)
☐ 35. Other _____	

HAZARDOUS WASTES/RCRA ANALYSIS SW-846

☐ 36. EP Toxicity	☐ 37. EP Toxicity (Metals Only)	☐ 38. Ignitability
☐ 39. Corrosivity	☐ 40. VOA—(USEPA 8240-GC/MS)	☐ 41. BNA—(USEPA 8270-GC/MS)
☐ 42. Pesticides/PCB's (USEPA 8080)	☐ 43. TCLP	☐ 44. TCLP (Metals Only)
☐ 45. Reactivity	☐ 46. Dioxin (USEPA 8280)	☐ 47. Appendix IX
☐ 48. Other _____	☐ 63. Percent Solids	☐ 68. Metals—17 Hazardous

MUNICIPAL SLUDGE

☐ 49. RSGB-01	☐ 50. RSSR-01	☐ 51. RSGR-01	☐ 52. RSRB-01	☐ 53. RSRI-01 (EP Toxicity-Metals only + RSSR-01)
☐ 54. RSRO-01	☐ 55. RSSB-01	☐ 56. RSRR-01	☐ 57. RSRR-02	☐ 58. Other _____

COLLECTED BY:

J G J...

TELEPHONE NUMBER:

518-457-1708

REGION NO.

1

CONTRACT LAB:

H.N.

COUNTY

New York

SAMPLING DATE:

1/21/77

MILITARY TIME:

14:45

SAMPLE MATRIX:

- ☐ Air ☐ Soil/Sediment ☒ Groundwater ☐ Surface Water ☐ Wastewater ☐ Other (Specify) _____

CASE NUMBER

R1A096

SDG NUMBER

0122

SAMPLE NUMBER

B60223

CHECK FOR MS/MD

☐ This Sample

TYPE OF SAMPLE:

☐ Grab ☐ Composite ☐ Term _____ hrs☒ Check if there will be more samples with this SDG sent in this calendar week☐ Report via Category B, unless checked

SAMPLING POINT:

Check if field duplicate ☐ Outfall Number _____ Check if sampling is part of inspection ☐

SPDES NUMBER, REGISTRY NUMBER

FLOW

A 0025

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

CONTRACT LAB SAMPLE INFORMATION SHEET

Part 3

Print legibly

CAUTION (check if applicable)

- ☐ Lab Personnel are expected to use caution when handling DEC samples, however, please use special precautions when handling this sample since it is believed to contain significant concentrations of hazardous and/or toxic material(s).

COPY	
ORIGINAL LOCATED	
SPEC. BACK SPIN (12)	
D	3/4/92
A	
T	
F	

Place QA Label Here

CHECK THE BOX PRECEDING THE REQUESTED ANALYSIS

PRIORITY POLLUTANTS (Water Part 136)—SPDES

☐ 2. 13 PP Metals	☐ 3. Volatiles—(USEPA 624 GC/MS)	☐ 6. Pesticides/PCB's (USEPA 608-GC)
☐ 4. Acids Base/Neutrals (USEPA 625-GC/MS)	☐ 5. Cyanide	☐ 9. BOD
☐ 7. Halogenated Volatiles (USEPA 601-GC)	☐ 8. Aromatic Volatiles (USEPA 602-GC)	☐ 12. TSS
☐ 10. pH	☐ 11. COD	☐ 15. Ammonia
☐ 13. Settleable Solids	☐ 14. TKN	☐ 18. Reactive Phosphorus
☐ 16. Nitrate/Nitrite	☐ 17. Total Phosphorus	☐ 21. Total Phenols
☐ 19. Oil/Grease	☐ 20. TOC	☐ 60. PCB's congener method
☐ 22. Other _____	☐ 59. PCB's at 0.065 ug/L	☐ 64. Total Solids
	☐ 62. CBOD	☐ 65. Volatiles (USEPA 524.2 GC/MS)

CONTRACT LABORATORY PROTOCOLS

☐ 23. (ALL)—Water—Includes 24-28	☐ 29. (ALL)—Soil/Sediments—Includes 30-34
☐ 24. Base/Neutral/Acid (B/N/A)—Water—GC/MS (ASP #89-2)	☐ 30. B/N/A—Soils/Sediment—GC/MS (ASP #89-2)
☐ 25. Volatile Organic Analysis VOA—Water—GC/MS (ASP #89-1)	☐ 31. VOA—Soils/Sediments—GC/MS (ASP #89-1)
☐ 26. Pesticides/PCB's—Water—GC (ASP #89-3)	☐ 32. Pesticides/PCB's—Soils/Sediment—GC (ASP #89-3)
☒ 27. Metals—23 in Water	☐ 33. Metals—23 in Soil/Sediment
☐ 28. Cyanide—Water	☐ 34. Cyanide—Soils/Sediment
☐ 66. Dioxin—Water (ASP #89-4)	☐ 67. Dioxin—Soil/Sediment (ASP #89-4)
☐ 35. Other _____	

HAZARDOUS WASTES/RCRA ANALYSIS SW-846

☐ 36. EP Toxicity	☐ 37. EP Toxicity (Metals Only)	☐ 38. Ignitability
☐ 39. Corrosivity	☐ 40. VOA—(USEPA 8240-GC/MS)	☐ 41. BNA—(USEPA 8270-GC/MS)
☐ 42. Pesticides/PCB's (USEPA 8080)	☐ 43. TCLP	☐ 44. TCLP (Metals Only)
☐ 45. Reactivity	☐ 46. Dioxin (USEPA 8280)	☐ 47. Appendix IX
☐ 48. Other _____	☐ 63. Percent Solids	☐ 68. Metals—17 Hazardous

MUNICIPAL SLUDGE

☐ 49. RSSB-01	☐ 50. RSSR-01	☐ 51. RSGR-01	☐ 52. RSRB-01	☐ 53. RSRI-01 (EP Toxicity-Metals only + RSSR-01)
☐ 54. RSRO-01	☐ 55. RSSB-01	☐ 56. RSRR-01	☐ 57. RSRR-02	☐ 58. Other _____

COLLECTED BY:

JG Jones

TELEPHONE NUMBER:

518 457-1704

REGION NO:

1

CONTRACT LAB:

H2M

COUNTY:

Nassau

SAMPLING DATE:

1/22/97

MILITARY TIME

14:45

SAMPLE MATRIX:

- ☐ Air ☐ Soil/Sediment ☒ Groundwater ☐ Surface Water ☐ Wastewater ☐ Other (Specify) _____

CASE NUMBER

R A 0 9 6

SDG NUMBER

0 1 2 2

SAMPLE NUMBER

B 6 0 2 2 3 A

CHECK FOR MS MD TYPE OF SAMPLE

☐ This Sample☐ Composite☐ Grab☐ Term _____ hrs☐ Check if there will be more samples with this SDG sent in this collection week☐ Report via Category B unless checked

SAMPLING POINT

Check if field ☐ Outfall Number ☐Check if sampling is part of inspection ☐

SPDES NUMBER REGISTRY NUMBER

A 0026

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

CONTRACT LAB SAMPLE INFORMATION SHEET

Part 3

Print legibly

CAUTION (check if applicable)

- ☐ Lab Personnel are expected to use caution when handling DEC samples, however, please use special precautions when handling this sample since it is believed to contain significant concentrations of hazardous and/or toxic material(s).

COPY	
ORIGINAL LOCATED	
CNSC 62496 SD-11022	
IN	DATE 3/1/92

Place QA Label Here

CHECK THE BOX PRECEDING THE REQUESTED ANALYSIS**PRIORITY POLLUTANTS (Water Part 136)—SPDES**

☐ 2. 13 PP Metals	☐ 3. Volatiles—(USEPA 624 GC/MS)	☐ 6. Pesticides/PCB's (USEPA 608-GC)
☐ 4. Acids Base/Neutrals (USEPA 625-GC/MS)	☐ 5. Cyanide	☐ 9. BOD
☐ 7. Halogenated Volatiles (USEPA 601-GC)	☐ 8. Aromatic Volatiles (USEPA 602-GC)	☐ 12. TSS
☐ 10. pH	☐ 11. COD	☐ 15. Ammonia
☐ 13. Settleable Solids	☐ 14. TKN	☐ 18. Reactive Phosphorus
☐ 16. Nitrate/Nitrite	☐ 17. Total Phosphorus	☐ 21. Total Phenols
☐ 19. Oil/Grease	☐ 20. TOC	☐ 60. PCB's congener method
☐ 22. Other _____	☐ 59. PCB's at 0.065 ug/L	☐ 64. Total Solids
	☐ 62. CBOD	☐ 65. Volatiles (USEPA 524.2 GC/MS)

CONTRACT LABORATORY PROTOCOLS

☐ 23. (ALL)—Water—Includes 24-28	☐ 29. (ALL)—Soil/Sediments—Includes 30-34
☐ 24. Base/Neutral/Acid (B/N/A)—Water—GC/MS (ASP #89-2)	☐ 30. B/N/A—Soils/Sediment—GC/MS (ASP #89-2)
☐ 25. Volatile Organic Analysis VOA—Water—GC/MS(ASP #89-1)	☐ 31. VOA—Soils/Sediments—GC/MS (ASP #89-1)
☐ 26. Pesticides/PCB's—Water—GC(ASP #89-3)	☐ 32. Pesticides/PCB's—Soils/Sediment—GC (ASP #89-3)
☒ 27. Metals—23 in Water	☐ 33. Metals—23 in Soil/Sediment
☐ 28. Cyanide—Water	☐ 34. Cyanide—Soils/Sediment
☐ 66. Dioxin—Water (ASP #89-4)	☐ 67. Dioxin—Soil/Sediment (ASP #89-4)
☐ 35. Other _____	

HAZARDOUS WASTES/RCRA ANALYSIS SW-846

☐ 36. EP Toxicity	☐ 37. EP Toxicity (Metals Only)	☐ 38. Ignitability
☐ 39. Corrosivity	☐ 40. VOA—(USEPA 8240-GC/MS)	☐ 41. BNA—(USEPA 8270-GC/MS)
☐ 42. Pesticides/PCB's (USEPA 8080)	☐ 43. TCLP	☐ 44. TCLP (Metals Only)
☐ 45. Reactivity	☐ 46. Dioxin (USEPA 8280)	☐ 47. Appendix IX
☐ 48. Other _____	☐ 63. Percent Solids	☐ 68. Metals—17 Hazardous

MUNICIPAL SLUDGE

☐ 49. RSG-01	☐ 50. RSSR-01	☐ 51. RSGR-01	☐ 52. RSRB-01	☐ 53. RSRI-01 (EP Toxicity-Metals only + RSRR-01)
☐ 54. RSRO-01	☐ 55. RSSB-01	☐ 56. RSRR-01	☐ 57. RSRR-02	☐ 58. Other _____

COLLECTED BY:

J G J. J.

TELEPHONE NUMBER:

618 457-1714

REGION NO:

1

CONTRACT LAB:

15N

COUNTY:

N. C.

SAMPLING DATE:

1/22/92

MILITARY TIME:

15:15

SAMPLE MATRIX

- ☐ Air ☐ Soil/Sediment ☒ Groundwater ☐ Surface Water ☐ Wastewater ☐ Other (Specify) _____

CASE NUMBER

RA 09 60122

SDG NUMBER

SAMPLE NUMBER

R 00224

CHECK FOR MS/MD

☐ This Sample

TYPE OF SAMPLE:

☐ Composite☐ Grab☐ Term _____ hrs☒ Check if there will be more samples with this SDG sent in this calendar weekReport via Category B unless checked ☐

SAMPLING POINT

Check if field duplicate ☐

Outfall Number

Check if sampling is part of inspection ☐

SPDES NUMBER/REGISTRY NUMBER

Flow 0027

MGO

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

CONTRACT LAB SAMPLE INFORMATION SHEET

Print legibly

Part 3

CAUTION (check if applicable)

- ☐ Lab Personnel are expected to use caution when handling DEC samples, however, please use special precautions when handling this sample since it is believed to contain significant concentrations of hazardous and/or toxic material(s).

Place QA Label Here

COPY	
ORIGINAL LOCATED	
3/21/97 SDG1002	
INITIALS	DATE
XB	3/4/97

CHECK THE BOX PRECEDING THE REQUESTED ANALYSIS

PRIORITY POLLUTANTS (Water Part 136)—SPDES

☐ 2. 13 PP Metals	☐ 3. Volatiles—(USEPA 624 GC/MS)	☐ 6. Pesticides/PCB's (USEPA 608-GC)
☐ 4. Acids Base/Neutrals (USEPA 625-GC/MS)	☐ 5. Cyanide	☐ 9. BOD
☐ 7. Halogenated Volatiles (USEPA 601-GC)	☐ 8. Aromatic Volatiles (USEPA 602-GC)	☐ 12. TSS
☐ 10. pH	☐ 11. COD	☐ 15. Ammonia
☐ 13. Settleable Solids	☐ 14. TKN	☐ 18. Reactive Phosphorus
☐ 16. Nitrate/Nitrite	☐ 17. Total Phosphorus	☐ 21. Total Phenols
☐ 19. Oil/Grease	☐ 20. TOC	☐ 60. PCB's congener method
☐ 22. Other _____	☐ 59. PCB's at 0.065 ug/L	☐ 64. Total Solids
	☐ 62. CBOD	☐ 65. Volatiles (USEPA 524.2 GC/MS)

CONTRACT LABORATORY PROTOCOLS

☐ 23. (ALL)—Water—Includes 24-28	☐ 29. (ALL)— Soil/Sediments—Includes 30-34
☐ 24. Base/Neutral/Acid (B/N/A)—Water—GC/MS (ASP #89-2)	☐ 30. B/N/A—Soils/Sediment—GC/MS (ASP #89-2)
☐ 25. Volatile Organic Analysis VOA—Water—GC/MS(ASP #89-1)	☐ 31. VOA—Soils/Sediments—GC/MS (ASP #89-1)
☐ 26. Pesticides/PCB's—Water—GC(ASP #89-3)	☐ 32. Pesticides/PCB's—Soils/Sediment—GC (ASP #89-3)
☒ 27. Metals—23 in Water	☐ 33. Metals—23 in Soil/Sediment
☐ 28. Cyanide—Water	☐ 34. Cyanide—Soils/Sediment
☐ 66. Dioxin-Water (ASP #89-4)	☐ 67. Dioxin-Soil/Sediment (ASP #89-4)
☐ 35. Other _____	

HAZARDOUS WASTES/RCRA ANALYSIS SW-846

☐ 36. EP Toxicity	☐ 37. EP Toxicity (Metals Only)	☐ 38. Ignitability
☐ 39. Corrosivity	☐ 40. VOA—(USEPA 8240-GC/MS)	☐ 41. BNA—(USEPA 8270-GC/MS)
☐ 42. Pesticides/PCB's (USEPA 8080)	☐ 43. TCLP	☐ 44. TCLP (Metals Only)
☐ 45. Reactivity	☐ 46. Dioxin (USEPA 8280)	☐ 47. Appendix IX
☐ 48. Other _____	☐ 63. Percent Solids	☐ 68. Metals—17 Hazardous

MUNICIPAL SLUDGE

☐ 49. RSSB-01	☐ 50. RSSR-01	☐ 51. RSGR-01	☐ 52. RSRB-01	☐ 53. RSRI-01 (EP Toxicity-Metals only + RSRR-01)
☐ 54. RSRO-01	☐ 55. RSSB-01	☐ 56. RSRR-01	☐ 57. RSRR-02	☐ 58. Other _____

COLLECTED BY:

J. C. Jones

TELEPHONE NUMBER:

518-437-1764

REGION NO:

1

CONTRACT LAB:

H. M.

COUNTY:

New York

SAMPLING DATE:

1/22/97

MILITARY TIME:

15:05

SAMPLE MATRIX:

- ☐ Air ☐ Soil/Sediment ☒ Groundwater ☐ Surface Water ☐ Wastewater ☐ Other (Specify) _____

CASE NUMBER

RA096

SDG NUMBER

0122

SAMPLE NUMBER

B60224A

CHECK FOR MS/MD

☐ This Sample

TYPE OF SAMPLE:

☐ Grab ☐ Composite ☐ Term _____ hrs☒ Check if there will be more samples with this SDG sent in this calendar weekReport via Category B, unless checked ☐

SAMPLING POINT

Check if field duplicate ☐ Outfall Number _____Check if sampling is part of inspection ☐

SPDES NUMBER/REGISTRY NUMBER

A 0028 GPD

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

CONTRACT LAB SAMPLE INFORMATION SHEET

Part 3

Print legibly

CAUTION (check if applicable)

- ☐ Lab Personnel are expected to use caution when handling DEC samples, however, please use special precautions when handling this sample since it is believed to contain significant concentrations of hazardous and/or toxic material(s).

ORIGINAL LOCATED	
DATE	3/4/97
INITIALS	AB

Place QA Label Here

CHECK THE BOX PRECEDING THE REQUESTED ANALYSIS**PRIORITY POLLUTANTS (Water Part 136)—SPDES**

☐ 2. 13 PP Metals	☐ 3. Volatiles—(USEPA 824 GC/MS)	☐ 6. Pesticides/PCB's (USEPA 608-GC)
☐ 4. Acids Base/Neutrals (USEPA 625-GC/MS)	☐ 5. Cyanide	☐ 9. BOD
☐ 7. Halogenated Volatiles (USEPA 601-GC)	☐ 8. Aromatic Volatiles (USEPA 602-GC)	☐ 12. TSS
☐ 10. pH	☐ 11. COD	☐ 15. Ammonia
☐ 13. Settleable Solids	☐ 14. TKN	☐ 18. Reactive Phosphorus
☐ 16. Nitrate/Nitrite	☐ 17. Total Phosphorus	☐ 21. Total Phenols
☐ 19. Oil/Grease	☐ 20. TOC	☐ 60. PCB's congener method
☐ 22. Other _____	☐ 59. PCB's at 0.065 ug/L	☐ 64. Total Solids
	☐ 62. CBOD	☐ 65. Volatiles (USEPA 524.2 GC/MS)

CONTRACT LABORATORY PROTOCOLS

☐ 23. (ALL)—Water—Includes 24-28	☐ 29. (ALL)— Soil/Sediments—Includes 30-34
☐ 24. Base/Neutral/Acid (B/N/A)—Water—GC/MS (ASP #89-2)	☐ 30. B/N/A/—Soils/Sediment—GC/MS (ASP #89-2)
☐ 25. Volatile Organic Analysis VOA—Water—GC/MS(ASP #89-1)	☐ 31. VOA—Soils/Sediments—GC/MS (ASP #89-1)
☐ 26. Pesticides/PCB's—Water—GC(ASP #89-3)	☐ 32. Pesticides/PCB's—Soils/Sediment—GC (ASP #89-3)
☒ 27. Metals—23 in Water	☐ 33. Metals—23 in Soil/Sediment
☐ 28. Cyanide—Water	☐ 34. Cyanide—Soils/Sediment
☐ 66. Dioxin-Water (ASP #89-4)	☐ 67. Dioxin-Soil/Sediment (ASP #89-4)
☐ 35. Other _____	

HAZARDOUS WASTES/RCRA ANALYSIS SW-846

☐ 36. EP Toxicity	☐ 37. EP Toxicity (Metals Only)	☐ 38. Ignitability
☐ 39. Corrosivity	☐ 40. VOA—(USEPA 8240-GC/MS)	☐ 41. BNA—(USEPA 8270-GC/MS)
☐ 42. Pesticides/PCB's (USEPA 8080)	☐ 43. TCLP	☐ 44. TCLP (Metals Only)
☐ 45. Reactivity	☐ 46. Dioxin (USEPA 8280)	☐ 47. Appendix IX
☐ 48. Other _____	☐ 63. Percent Solids	☐ 68. Metals—17 Hazardous

MUNICIPAL SLUDGE

☐ 49. RSG-01	☐ 50. RSSR-01	☐ 51. RSGR-01	☐ 52. RSRB-01	☐ 53. RSRI-01 (EP Toxicity-Metals only + RSRR-01)
☐ 54. RSRO-01	☐ 55. RSSB-01	☐ 56. RSRR-01	☐ 57. RSRR-02	☐ 58. Other _____

COLLECTED BY:

J.C. Jones

TELEPHONE NUMBER:

518-437-1717

REGION NO:

1

CONTRACT LAB:

H.N.

COUNTY:

Nassau

SAMPLING DATE:

1/22/97

MILITARY TIME:

15:45

SAMPLE MATRIX:

- ☐ All ☐ Soil/Sediment ☒ Groundwater ☐ Surface Water ☐ Wastewater ☐ Other (Specify) _____

CASE NUMBER

SDG NUMBER

SAMPLE NUMBER

CHECK FOR MS/MD

TYPE OF SAMPLE:

☐ Grab

BAC96

0122

B60225

☐ This Sample☐ Composite☐ Term _____ hrs☒ Check if there will be more samples with this SDG sent in this calendar weekReport via Category B unless checked ☐

SAMPLING POINT

Check if field duplicate ☐

Outfall Number

Check if sampling is part of inspection ☐

SPDES NUMBER/REGISTRY NUMBER

FLOW

A 0029

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
CONTRACT LAB SAMPLE INFORMATION SHEET

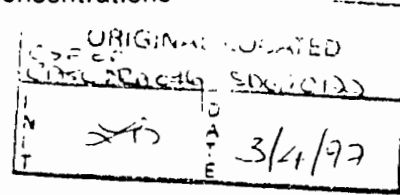
Part 3

Print legibly

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Place QA Label Here

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☐ 35. Other _____	

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☐ 54. RSRO-01	☐ 55. RSSB-01	☐ 56. RSRR-01	☐ 57. RSRR-02	☐ 58. Other _____

COLLECTED BY:

J.G. Jones

TELEPHONE NUMBER:

518-451-1705

REGION NO:

1

CONTRACT LAB:

H/LM

COUNTY:

Nassau

SAMPLING DATE:

1/22/97

MILITARY TIME:

17:45

SAMPLE MATRIX:

- ☐ Air ☐ Soil/Sediment ☐ Groundwater ☐ Surface Water ☐ Wastewater ☐ Other (Specify) _____

CASE NUMBER

RAC760122

SDG NUMBER

SAMPLE NUMBER

B60225A

CHECK FOR MS/MD

☐ This Sample

TYPE OF SAMPLE:

- ☐ Grab ☐ Composite ☐ Term _____ hrs

☐ Check if there will be more samples with this SDG sent in this calendar weekReport via Category B, unless checked ☐

SAMPLING POINT:

Check if field duplicate ☐

Outfall Number

Check if sampling is part of inspection ☐

SPDES NUMBER/REGISTRY NUMBER

FLOW GPD MGD

A 0030

IV. CHAIN OF CUSTODY DOCUMENTATION

SAMPLE PREPARATION AND ANALYSIS SUMMARY
VOA ANALYSES

Laboratory sample ID	Matrix	Date Collected	Date rec'd At Lab	LEVEL	Date
					Analyzed
B60211	SOIL	1/22/97	1/23/97	low	1/24/97
B60211DL	SOIL	1/22/97	1/23/97	low	1/27/97
B60212	SOIL	1/22/97	1/23/97	low	1/24/97
B60213	SOIL	1/22/97	1/23/97	low	1/24/97
B60215	SOIL	1/22/97	1/23/97	low	1/24/97
B60215DL	SOIL	1/22/97	1/23/97	low	1/27/97
B60216	SOIL	1/22/97	1/23/97	low	1/24/97
B60217	SOIL	1/22/97	1/23/97	low	1/24/97
B60218	SOIL	1/22/97	1/23/97	low	1/27/97
TRIP BLANK	water	1/22/97	1/23/97	low	1/30/97
B60220	water	1/22/97	1/23/97	low	1/29/97
B60220DL	water	1/22/97	1/23/97	low	1/30/97
B60221	water	1/22/97	1/23/97	low	1/29/97
B60221DL	water	1/22/97	1/23/97	low	1/29/97
B60222	water	1/22/97	1/23/97	low	1/28/97
B60222DL	water	1/22/97	1/23/97	low	1/28/97

(516) 694-3040

FAX: 516-694-4122

0122

[illegible]

ORIGINAL COPY

INTERNAL CHAIN OF CUSTODY

CLIENT: NDECA DELIVERABLES: AS-70 ^{AL70} TURN AROUND TIME: Stand
 SDG #: 0122 CASE #: RA096 ^{RA-14} MATRIX: 50 pH CHECK Y or N

REMARKS:

RECEIVED BY: TAT SIGNATURE [Signature] ^{TAT/12/17} DATE 1-23-17 TIME: 10:25

CLIENT I.D.	H2M LAB #	DATE COLLECTED	BOTTLE TYPE	# OF BOTTLES	TESTS REQUESTED
1 B60211	9702025	1-22-17	A	1	PULCL, TS
2 B60212	↓ 026	↓	↓	↓	↓
3 B60213	↓ 027	↓	↓	↓	↓
4 B60215	9702029	↓	↓	↓	↓
5 B60216	↓ 030	↓	↓	↓	↓
6 B60217	↓ 031	↓	↓	↓	↓
7 B60218	↓ 032	↓	↓	↓	↓
8					
9					
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15					
16					
17					
18					
19					
20					

COPY
 ORIGINAL LOCATED
 IN []
 DATE 3/21/17

P 0016

A 0034

CLIENT: NDECIB ^{MAJ}
SDG #: 0122 ¹¹²⁴¹⁹⁷

[illegible]

P 0017

A 0035

INTERNAL CHAIN OF CUSTODY

CLIENT: NDECA DELIVERABLES: AS-70 ^{AC70} ₁₋₂₄ TURN AROUND TIME: Stand
 SDG #: 0122 CASE #: RA096 MATRIX: ML pH CHECK Y or N

REMARKS:

RECEIVED BY: TAJ SIGNATURE: Taj DATE: 1-23-97 TIME: 10:25

CLIENT LD.	H2M LAB #	DATE COLLECTED	BOTTLE TYPE	# OF BOTTLES	TESTS REQUESTED
¹ B60220	9702037	1-22-97	D	2	PuTCL
² B60221	↓ 038	↓	↓	↓	↓
³ B60222	↓ 039	↓	↓	↓	↓
⁴ B60223 Trip Blank	9702046	↓	↓	↓	↓
⁵ B60223A					
⁶ B60224					
⁷ B60224A					
⁸ B60225					
⁹ B60225A					
¹⁰ Trip Blank					
¹¹					
¹²					
¹³					
¹⁴					
¹⁵					
¹⁶					
¹⁷					
¹⁸					
¹⁹					
²⁰					

COPY
ORIGINAL LOCATED
IN 3/1/97

SDG #:

SDG #:

[illegible]

P 3020

A 0037

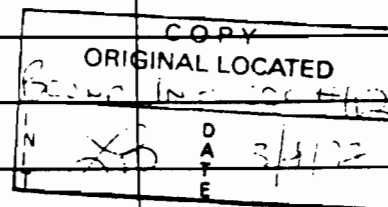
INTERNAL CHAIN OF CUSTODY

CLIENT: NDECB DELIVERABLES: AS70 ^{AC70} TURN AROUND TIME Stand
 SDG #: 0122 CASE #: RA096 MATRIX: SO pH CHECK Y or N

REMARKS:

RECEIVED BY: TAS SIGNATURE [Signature] DATE 1-23-97 TIME: 10:25

CLIENT LD.	H2M LAB #	DATE COLLECTED	BOTTLE TYPE	# OF BOTTLES	TESTS REQUESTED
1 <u>B6024</u>	<u>9702028</u>	<u>1-22-97</u>	<u>B</u>	<u>1</u>	<u>BATCL, XBATCL</u>
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					



1-23-97

CLIENT: NDECB

SDG #: 0122

INTERNAL CHAIN OF CUSTODY

		COPY	
		ORIGINAL LOCATED	
		Second In the CC#9	
INIT	XO	DATE	2/1/82

A 0039

INTERNAL CHAIN OF CUSTODY

CLIENT: NDECJB DELIVERABLES: AS 70 AC 70 TURN AROUND TIME: Stand
 SDG #: 0122 CASE #: RA096 801124/97 MATRIX: SO/GW pH CHECK Y or N

REMARKS:

RECEIVED BY: TAT SIGNATURE: TAT DATE: 1-23-97 TIME: 10:25

CLIENT LD.	H2M LAB #	DATE COLLECTED	BOTTLE TYPE	# OF BOTTLES	TESTS REQUESTED
1 <u>219 PJS 1/23/97</u> <u>B60220 MS/MSD</u>	<u>9702033</u>	<u>1-22-97</u>	<u>TAT 1/21/97</u> <u>AB</u>	<u>1</u>	<u>TCL Metals</u> ^{TS} <u>dig</u>
2 <u>B60223</u>	<u>9702040</u>		<u>EN</u>	<u>1</u>	<u>dig</u>
3 <u>B60223A</u>	<u>041</u>			<u>1</u>	<u>DTCL Metals</u> ^{dig}
4 <u>B60224</u>	<u>042</u>			<u>1</u>	<u>TCL Metals</u> ^{dig}
5 <u>B60224A</u>	<u>043</u>			<u>1</u>	<u>DTCL Metals</u> ^{dig}
6 <u>B60225 MS/MSD</u>	<u>044</u>			<u>3</u>	<u>TCL Metals</u> ^{dig}
7 <u>B60225A MS/MSD</u>	<u>045</u>	<u>✓</u>	<u>✓</u>	<u>3</u>	<u>DTCL Metals</u> ^{dig}
8					
9					
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17					
18					
19					
20					

COPY	
ORIGINAL LOCATED	
INITIALS	DATE
<u>TAT</u>	<u>1/23/97</u>

A 0040

P 0139

H2M LABS, INC.

Page 2 of 3

CLIENT: NDEC

SDG #: 0122

COPY
ORIGINAL LOCATED

INTERNAL CHAIN OF CUSTODY

DATE	TIME	SAMPLE RELINQUISHED BY	SAMPLE RECEIVED BY	BOTTLE TYPE	PURPOSE OF CHANGE OF CUSTODY	INIT.
1/23/97	1430	SIGN <u>[Signature]</u>	SIGN <u>[Signature]</u>	AlB, En	prep/analysis	
1/27/97	1420	SIGN <u>[Signature]</u>	SIGN <u>[Signature]</u>	all B	T.S.	
1/27/97	1450	SIGN <u>[Signature]</u>	SIGN <u>[Signature]</u>	all B	storage	
1/30/97	9:00	SIGN <u>[Signature]</u>	SIGN <u>[Signature]</u>	all B	Hg prep	
1/30/97	9:30	SIGN <u>[Signature]</u>	SIGN <u>[Signature]</u>	all B	storage	
1/31/97	6:15	SIGN <u>[Signature]</u>	SIGN <u>[Signature]</u>	all B & D	Hg analysis	
2/2/97	1530	SIGN <u>[Signature]</u>	SIGN <u>[Signature]</u>	Al B, En	storage	
Feb 12/97	18:30	SIGN <u>[Signature]</u>	SIGN <u>[Signature]</u>	Al B, En	Digestion	
Feb 13/97	01:15	SIGN <u>[Signature]</u>	SIGN <u>[Signature]</u>	Al B, En	Storage	
2/13/97	845	SIGN <u>[Signature]</u>	SIGN <u>[Signature]</u>	Al B, En, Digs	storage	
2/14/97	1505	SIGN <u>[Signature]</u>	SIGN <u>[Signature]</u>	All Digs	storage	
2/15/97	11:00	SIGN <u>[Signature]</u>	SIGN <u>[Signature]</u>	All fl digs	ICP (trace)	
2/15/97	14:00	SIGN <u>[Signature]</u>	SIGN <u>[Signature]</u>	All fl digs	Storage	
2/18/97	910	SIGN <u>[Signature]</u>	SIGN <u>[Signature]</u>	All fl digs	storage	
2/18/97	910	SIGN <u>[Signature]</u>	SIGN <u>[Signature]</u>	all fl dgs	ICP (all)	
2/18/97	1530	SIGN <u>[Signature]</u>	SIGN <u>[Signature]</u>	All FI dgs	continued by analysis	
2/18/97	1530	SIGN <u>[Signature]</u>	SIGN <u>[Signature]</u>	All FI dgs	storage	
2/21/97	1500	SIGN <u>[Signature]</u>	SIGN <u>[Signature]</u>	All FI dgs	TS&LE Dilutions	
2/21/97	17:00	SIGN <u>[Signature]</u>	SIGN <u>[Signature]</u>	All FI dgs	storage	
2/22/97	9:30	SIGN <u>[Signature]</u>	SIGN <u>[Signature]</u>	All Fl dgs	ICP (all ions)	
2/23/97	13:30	SIGN <u>[Signature]</u>	SIGN <u>[Signature]</u>	All Fl dgs	Storage	
2/26/97	11:00	SIGN <u>[Signature]</u>	SIGN <u>[Signature]</u>	All Fl dgs	ICP (all ions)	
2/26/97	14:00	SIGN <u>[Signature]</u>	SIGN <u>[Signature]</u>	All Fl dgs	Storage	
2/27/97	745	SIGN <u>[Signature]</u>	SIGN <u>[Signature]</u>	All FI dgs	storage	

P 0140

A 0041

V. ANALYTICAL DATA PACKAGES

- A. VOLATILES**
- B. SEMIVOLATILES**
- C. METALS**

H2M LABS, INC.

RA096

0122

VOLATILE ORGANICS

TABLE OF CONTENTS

- I. QC SUMMARY**
- II. SAMPLE DATA PACKAGE**
- III. STANDARDS DATA PACKAGE**
- IV. RAW QC DATA PACKAGE**
- V. DOCUMENTATION**

V 0001

H2M LABS, INC.

I. QC SUMMARY FOR VOLATILE ORGANICS

- A. SYSTEM MONITORING COMPOUND RECOVERY FORM
- B. MSB FORM
- C. MS/MSD FORM
- D. METHOD BLANK FORM
- E. GC/MS TUNING FORM
- F. INTERNAL STANDARD AREA AND RT SUMMARY
- G. INSTRUMENT DETECTION LIMITS

V 0002

2A
WATER VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: H2M LABS INC. Contract: _____
Lab Code: _____ Case No.: RA096 SAS No.: _____ SDG No.: NDEC012

	EPA SAMPLE NO.	SMC1 (DCE) #	SMC2 (TOL) #	SMC3 (BFB) #	TOT OUT
01	VLK28	104	102	101	0
02	B60222	105	100	102	0
03	VLK29	106	97	100	0
04	B60220	117 *	96	105	1
05	B60221	113	96	104	0
06	B60221DL	116 *	95	106	1
07	B60222DL	113	97	106	0
08	VLK30	101	98	101	0
09	B60220DL	103	98	100	0
10	TRIP BLANK	104	94	102	0

SMC1 (DCE)	=	1,2-Dichloroethane-d4	QC LIMITS (76-114)
SMC2 (TOL)	=	Toluene-d8	(88-110)
SMC3 (BFB)	=	Bromofluorobenzene	(86-115)

Column to be used to flag recovery values
* Values outside of contract required QC limits
D System Monitoring Compound diluted out

2B
SOIL VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: H2M LABS INC. Contract: _____
Lab Code: _____ Case No.: RA096 SAS No.: _____ SDG No.: NDEC012
Level: (low/med) LOW

	EPA SAMPLE NO.	SMC1 (DCE) #	SMC2 (TOL) #	SMC3 (BFB) #	TOT OUT
01	VBLK24	105	98	99	0
02	B60211	109	103	88	0
03	B60212	110	97	102	0
04	B60213	110	96	102	0
05	B60215	109	100	101	0
06	B60216	113	97	105	0
07	B60217	111	96	103	0
08	VBLK27	107	96	98	0
09	B60211DL	106	97	99	0
10	B60215DL	108	99	99	0
11	B60218	109	98	101	0

SMC1 (DCE)	=	1,2-Dichloroethane-d4	QC LIMITS (70-121)
SMC2 (TOL)	=	Toluene-d8	(84-138)
SMC3 (BFB)	=	Bromofluorobenzene	(59-113)

Column to be used to flag recovery values
* Values outside of contract required QC limits
D System Monitoring Compound diluted out

4A
VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBK28

Lab Name: H2M LABS INC. Contract: _____
Lab Code: _____ Case No.: RA096 SAS No.: _____ SDG No.: NDEC012
Lab File ID: P05499.D Lab Sample ID: VBK28
Date Analyzed: 01/28/97 Time Analyzed: 13:02
GC Column: RTX502. ID: 0.53 (mm) Heated Purge: (Y/N) N
Instrument ID: 5970

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	B60222	9702039	P05507.D	17:19

COMMENTS

4A
VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBK29

Lab Name: H2M LABS INC. Contract: _____
Lab Code: _____ Case No.: RA096 SAS No.: _____ SDG No.: NDEC012
Lab File ID: P05520.D Lab Sample ID: VBK29
Date Analyzed: 01/29/97 Time Analyzed: 14:36
GC Column: RTX502. ID: 0.53 (mm) Heated Purge: (Y/N) N
Instrument ID: 5970

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	B60220	9702037	P05528.D	18:14
02	B60221	9702038	P05530.D	19:14
03	B60221DL	9702038DL 1:5	P05531.D	19:43
04	B60222DL	9702039DL 1:5	P05532.D	20:13

COMMENTS

4A
VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBK30

Lab Name: H2M LABS INC. Contract: _____
Lab Code: _____ Case No.: RA096 SAS No.: _____ SDG No.: NDEC012
Lab File ID: P05538.D Lab Sample ID: VBK30
Date Analyzed: 01/30/97 Time Analyzed: 12:54
GC Column: RTX502. ID: 0.53 (mm) Heated Purge: (Y/N) N
Instrument ID: 5970

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	B60220DL	9702037DL 1:25	P05540.D	13:54
02	TRIP BLANK	9702046	P05541.D	14:23

COMMENTS

4A
VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBK24

Lab Name: H2M LABS INC. Contract: _____
Lab Code: _____ Case No.: RA096 SAS No.: _____ SDG No.: NDEC012
Lab File ID: P05462.D Lab Sample ID: VBK24
Date Analyzed: 01/24/97 Time Analyzed: 10:59
GC Column: RTX502. ID: 0.53 (mm) Heated Purge: (Y/N) Y
Instrument ID: 5970

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	B60211	9702025	P05476.D	18:18
02	B60212	9702026	P05477.D	18:49
03	B60213	9702027	P05478.D	19:20
04	B60215	9702029	P05479.D	19:50
05	B60216	9702030	P05480.D	20:21
06	B60217	9702031	P05481.D	20:52

COMMENTS

4A
VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLK27

Lab Name: H2M LABS INC. Contract: _____
Lab Code: _____ Case No.: RA096 SAS No.: _____ SDG No.: NDEC012
Lab File ID: P05485.D Lab Sample ID: VBLK27
Date Analyzed: 01/27/97 Time Analyzed: 16:00
GC Column: RTX502. ID: 0.53 (mm) Heated Purge: (Y/N) Y
Instrument ID: 5970

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	B60211DL	9702025DL	P05486.D	16:44
02	B60215DL	9702029DL	P05487.D	17:15
03	B60218	9702032	P05488.D	17:46

COMMENTS

5A
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: H2M LABS INC. Contract: _____
 Lab Code: _____ Case No.: RA096 SAS No.: _____ SDG No.: NDEC012
 Lab File ID: P05319.D BFB Injection Date: 12/31/96
 Instrument ID: 5970 BFB Injection Time: 09:05
 GC Column: RTX502.2 ID: 0.53 (mm) Heated Purge: (Y/N) Y

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	23.9
75	30.0 - 60.0% of mass 95	52.9
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	7.1
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	50.0 - 120.0% of mass 95	69.2
175	5.0 - 9.0% of mass 174	5.5 (8.0)1
176	95.0 - 101.0% of mass 174	68.0 (98.2)1
177	5.0 - 9.0% of mass 176	4.7 (6.9)2

1-Value is % mass 174

2-Value is % mass 176

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD010	VSTD010	P05325.D	12/31/96	13:23
02	VSTD020	VSTD020	P05326.D	12/31/96	13:54
03	VSTD050	VSTD050	P05327.D	12/31/96	14:25
04	VSTD100	VSTD100	P05328.D	12/31/96	14:56
05	VSTD200	VSTD200	P05329.D	12/31/96	15:27

5A
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: H2M LABS INC. Contract: _____
 Lab Code: _____ Case No.: RA096 SAS No.: _____ SDG No.: NDEC012
 Lab File ID: P05460.D BFB Injection Date: 01/24/97
 Instrument ID: 5970 BFB Injection Time: 09:11
 GC Column: RTX502.2 ID: 0.53 (mm) Heated Purge: (Y/N) Y

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	55.6
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	7.6
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	50.0 - 120.0% of mass 95	68.3
175	5.0 - 9.0% of mass 174	5.0 (7.4)1
176	95.0 - 101.0% of mass 174	68.5 (100.3)1
177	5.0 - 9.0% of mass 176	4.7 (6.8)2

1-Value is % mass 174

2-Value is % mass 176

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD050	VSTD050	P05461.D	01/24/97	10:19
02	VBLK24	VBLK24	P05462.D	01/24/97	10:59
03	B60211	9702025	P05476.D	01/24/97	18:18
04	B60212	9702026	P05477.D	01/24/97	18:49
05	B60213	9702027	P05478.D	01/24/97	19:20
06	B60215	9702029	P05479.D	01/24/97	19:50
07	B60216	9702030	P05480.D	01/24/97	20:21
08	B60217	9702031	P05481.D	01/24/97	20:52

5A
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: H2M LABS INC. Contract: _____
 Lab Code: _____ Case No.: RA096 SAS No.: _____ SDG No.: NDEC012
 Lab File ID: P05483.D BFB Injection Date: 01/27/97
 Instrument ID: 5970 BFB Injection Time: 12:46
 GC Column: RTX502.2 ID: 0.53 (mm) Heated Purge: (Y/N) Y

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	24.4
75	30.0 - 60.0% of mass 95	57.2
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	7.2
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	50.0 - 120.0% of mass 95	69.7
175	5.0 - 9.0% of mass 174	5.1 (7.3)1
176	95.0 - 101.0% of mass 174	70.0 (100.4)1
177	5.0 - 9.0% of mass 176	5.0 (7.2)2

1-Value is % mass 174

2-Value is % mass 176

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD050	VSTD050	P05484.D	01/27/97	15:21
02	VBLK27	VBLK27	P05485.D	01/27/97	16:00
03	B60211DL	9702025DL	P05486.D	01/27/97	16:44
04	B60215DL	9702029DL	P05487.D	01/27/97	17:15
05	B60218	9702032	P05488.D	01/27/97	17:46

5A
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: H2M LABS INC. Contract: _____
 Lab Code: _____ Case No.: RA096 SAS No.: _____ SDG No.: NDEC012
 Lab File ID: P05495.D BFB Injection Date: 01/28/97
 Instrument ID: 5970 BFB Injection Time: 09:31
 GC Column: RTX502.2 ID: 0.53 (mm) Heated Purge: (Y/N) N

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	56.7
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	7.4
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	50.0 - 120.0% of mass 95	66.6
175	5.0 - 9.0% of mass 174	5.0 (7.5)1
176	95.0 - 101.0% of mass 174	67.0 (100.6)1
177	5.0 - 9.0% of mass 176	4.5 (6.8)2

1-Value is % mass 174

2-Value is % mass 176

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD050	VSTD050	P05498.D	01/28/97	12:21
02	VBLK28	VBLK28	P05499.D	01/28/97	13:02
03	B60222	9702039	P05507.D	01/28/97	17:19

5A
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: H2M LABS INC. Contract: _____
 Lab Code: _____ Case No.: RA096 SAS No.: _____ SDG No.: NDEC012
 Lab File ID: P05518.D BFB Injection Date: 01/29/97
 Instrument ID: 5970 BFB Injection Time: 13:06
 GC Column: RTX502.2 ID: 0.53 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	22.8
75	30.0 - 60.0% of mass 95	54.8
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.9
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	50.0 - 120.0% of mass 95	70.6
175	5.0 - 9.0% of mass 174	5.6 (8.0)1
176	95.0 - 101.0% of mass 174	70.8 (100.2)1
177	5.0 - 9.0% of mass 176	4.7 (6.6)2

1-Value is % mass 174

2-Value is % mass 176

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD050	VSTD050	P05519.D	01/29/97	13:49
02	VBLK29	VBLK29	P05520.D	01/29/97	14:36
03	B60220	9702037	P05528.D	01/29/97	18:14
04	B60221	9702038	P05530.D	01/29/97	19:14
05	B60221DL	9702038DL 1:5	P05531.D	01/29/97	19:43
06	B60222DL	9702039DL 1:5	P05532.D	01/29/97	20:13

V 0015

5A
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: H2M LABS INC. Contract: _____
 Lab Code: _____ Case No.: RA096 SAS No.: _____ SDG No.: NDEC012
 Lab File ID: P05536.D BFB Injection Date: 01/30/97
 Instrument ID: 5970 BFB Injection Time: 08:57
 GC Column: RTX502.2 ID: 0.53 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	26.3
75	30.0 - 60.0% of mass 95	57.6
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	7.2
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	50.0 - 120.0% of mass 95	66.5
175	5.0 - 9.0% of mass 174	5.2 (7.8)1
176	95.0 - 101.0% of mass 174	66.0 (99.3)1
177	5.0 - 9.0% of mass 176	4.9 (7.4)2

1-Value is % mass 174

2-Value is % mass 176

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD050	VSTD050	P05537.D	01/30/97	12:11
02	VBLK30	VBLK30	P05538.D	01/30/97	12:54
03	B60220DL	9702037DL 1:25	P05540.D	01/30/97	13:54
04	TRIP BLANK	9702046	P05541.D	01/30/97	14:23

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: H2M LABS INC. Contract: _____
 Lab Code: _____ Case No.: RA096 SAS No.: _____ SDG No.: NDEC012
 Lab File ID (Standard): P05498.D Date Analyzed: 01/28/97
 Instrument ID: 5970 Time Analyzed: 12:21
 GC Column: RTX502.2 ID: 0.53 (mm) Heated Purge: (Y/N) N

	IS1(BCM) AREA #	RT #	IS2(DFB) AREA #	RT #	IS3(CBZ) AREA #	RT #
12 HOUR ST	78170	10.95	306444	12.36	243567	17.63
UPPER LIMIT	156340	10.45	612888	11.86	487134	17.13
LOWER LIMIT	39085	11.45	153222	12.86	121784	18.13
EPA SAMPLE NO.						
01 VBLK28	81220	10.97	314671	12.38	248528	17.64
02 B60222	71923	10.99	256802	12.41	208764	17.68

IS1 (BCM) = Bromochloromethane

IS2 (DFB) = 1,4-Difluorobenzene

IS3 (CBZ) = Chlorobenzene-d5

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = - 50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column to be used to flag values outside QC limit with an asterisk.

* Values outside of contract required QC limits

V 0017

8A
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: H2M LABS INC. Contract: _____
 Lab Code: _____ Case No.: RA096 SAS No.: _____ SDG No.: NDEC012
 Lab File ID (Standard): P05519.D Date Analyzed: 01/29/97
 Instrument ID: 5970 Time Analyzed: 13:49
 GC Column: RTX502.2 ID: 0.53 (mm) Heated Purge: (Y/N) N

	IS1(BCM) AREA #	RT #	IS2(DFB) AREA #	RT #	IS3(CBZ) AREA #	RT #
12 HOUR ST	84715	11.05	357408	12.47	281348	17.73
UPPER LIMIT	169430	10.55	714816	11.97	562696	17.23
LOWER LIMIT	42358	11.55	178704	12.97	140674	18.23
EPA SAMPLE NO.						
01 VBLK29	80883	11.05	321665	12.46	254883	17.72
02 B60220	76995	11.03	286473	12.44	235900	17.70
03 B60221	75310	11.02	287337	12.43	237635	17.70
04 B60221DL	80616	11.04	301064	12.45	249975	17.72
05 B60222DL	74735	11.05	284111	12.47	229416	17.73

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

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = - 50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column to be used to flag values outside QC limit with an asterisk.

* Values outside of contract required QC limits

V 0018

8A
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: H2M LABS INC. Contract: _____
 Lab Code: _____ Case No.: RA096 SAS No.: _____ SDG No.: NDEC012
 Lab File ID (Standard): P05537.D Date Analyzed: 01/30/97
 Instrument ID: 5970 Time Analyzed: 12:11
 GC Column: RTX502.2 ID: 0.53 (mm) Heated Purge: (Y/N) N

	IS1(BCM) AREA #	RT #	IS2(DFB) AREA #	RT #	IS3(CBZ) AREA #	RT #
12 HOUR ST	65762	11.08	260179	12.49	211874	17.76
UPPER LIMIT	131524	10.58	520358	11.99	423748	17.26
LOWER LIMIT	32881	11.58	130090	12.99	105937	18.26
EPA SAMPLE NO.						
01 VBLK30	68310	11.07	268160	12.49	224941	17.75
02 B60220DL	79675	11.08	303278	12.48	259232	17.74
03 TRIP BLANK	78478	11.07	285800	12.47	246038	17.76

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

AREA UPPER LIMIT = +100% of internal standard area
 AREA LOWER LIMIT = - 50% of internal standard area
 RT UPPER LIMIT = +0.50 minutes of internal standard RT
 RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column to be used to flag values outside QC limit with an asterisk.

* Values outside of contract required QC limits

8A
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: H2M LABS INC. Contract: _____
 Lab Code: _____ Case No.: RA096 SAS No.: _____ SDG No.: NDEC012
 Lab File ID (Standard): P05461.D Date Analyzed: 01/24/97
 Instrument ID: 5970 Time Analyzed: 10:19
 GC Column: RTX502.2 ID: 0.53 (mm) Heated Purge: (Y/N) Y

	IS1(BCM) AREA #	RT #	IS2(DFB) AREA #	RT #	IS3(CBZ) AREA #	RT #
12 HOUR ST	109635	11.27	392211	12.68	313283	17.96
UPPER LIMIT	219270	10.77	784422	12.18	626566	17.46
LOWER LIMIT	54818	11.77	196106	13.18	156642	18.46
EPA SAMPLE NO.						
01 VBLK24	115408	11.27	419490	12.69	342222	17.96
02 B60211	85132	11.23	268090	12.65	188631	17.94
03 B60212	95032	11.25	334315	12.65	271577	17.93
04 B60213	100394	11.25	341648	12.66	278985	17.94
05 B60215	95160	11.23	325463	12.65	252112	17.93
06 B60216	101595	11.23	356095	12.64	288427	17.94
07 B60217	104319	11.23	359980	12.64	293041	17.92

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

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = - 50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column to be used to flag values outside QC limit with an asterisk.

* Values outside of contract required QC limits

V 0020

8A
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: H2M LABS INC. Contract: _____
 Lab Code: _____ Case No.: RA096 SAS No.: _____ SDG No.: NDEC012
 Lab File ID (Standard): P05484.D Date Analyzed: 01/27/97
 Instrument ID: 5970 Time Analyzed: 15:21
 GC Column: RTX502.2 ID: 0.53 (mm) Heated Purge: (Y/N) Y

	IS1(BCM) AREA #	RT #	IS2(DFB) AREA #	RT #	IS3(CBZ) AREA #	RT #
12 HOUR ST	98034	11.26	366979	12.66	293533	17.95
UPPER LIMIT	196068	10.76	733958	12.16	587066	17.45
LOWER LIMIT	49017	11.76	183490	13.16	146767	18.45
EPA SAMPLE NO.						
01 VBLK27	101911	11.26	382720	12.66	316692	17.95
02 B60211DL	107352	11.25	384576	12.67	311003	17.95
03 B60215DL	99827	11.26	354212	12.67	283989	17.95
04 B60218	89348	11.25	312093	12.66	253919	17.94

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

AREA UPPER LIMIT = +100% of internal standard area
 AREA LOWER LIMIT = - 50% of internal standard area
 RT UPPER LIMIT = +0.50 minutes of internal standard RT
 RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column to be used to flag values outside QC limit with an asterisk.

* Values outside of contract required QC limits

✓ 0021

VOLATILES INSTRUMENT DETECTION LIMIT STUDY

SPIKE AMOUNT: 5 ppb

INSTRUMENT ID: H5970-3

DATE ANALYZED: 01/21/97

COMPOUND	P05432.D	P05433.D	P05434.D	P05435.D	P05436.D	P05437.D	P05438.D	S	IDL (ng)	CRDL
Chloromethane	5.25	5.57	4.82	5.14	4.78	5.34	5.99	0.42	7	50 ng
Vinyl Chloride	5.29	5.43	4.62	4.97	4.79	5.14	5.89	0.43	7	50 ng
Bromomethane	5.24	5.94	5.05	5.55	5.09	5.63	6.27	0.45	7	50 ng
Chloroethane	5.05	5.60	4.44	4.93	4.57	4.81	5.38	0.42	7	50 ng
1,1-Dichloroethene	4.81	5.14	4.16	4.50	4.27	4.44	5.31	0.44	7	50 ng
Carbon Disulfide	4.87	5.04	4.31	4.47	4.36	4.58	5.39	0.40	6	50 ng
Acetone	10.99	8.80	7.45	7.61	7.90	8.10	5.52	1.11	17	50 ng
Methylene Chloride	5.95	6.43	5.74	5.82	5.69	6.10	6.88	0.43	7	50 ng
trans-1,2-Dichloroethene	4.80	4.83	4.18	4.30	4.35	4.58	5.45	0.43	7	50 ng
cis-,1,2-Dichloroethene	4.72	5.04	4.39	4.53	4.60	4.79	5.63	0.42	7	50 ng
1,2-Dichloroethene (total)	9.67	10.91	9.52	9.94	9.76	10.32	11.89	0.85	13	50 ng
1,1-Dichloroethane	4.87	5.06	4.69	4.87	4.47	4.83	5.61	0.36	6	50 ng
Chloroform	4.66	5.01	4.47	4.77	4.56	4.84	5.75	0.43	7	50 ng
1,2-Dichloroethane	4.92	5.36	5.09	5.23	5.39	5.43	6.38	0.47	7	50 ng
2-Butanone	6.66	7.86	7.18	6.97	6.98	6.72	5.56	0.69	11	50 ng
1,1,1-Trichloroethane	4.71	5.38	4.85	5.14	5.07	4.97	6.36	0.55	9	50 ng
Carbon Tetrachloride	4.57	5.24	4.67	5.00	4.96	4.64	6.26	0.58	9	50 ng
Trichloroethene	4.74	5.23	4.61	5.03	5.53	4.89	5.94	0.47	7	50 ng
Benzene	5.28	5.42	4.67	5.00	4.90	5.04	6.13	0.48	7	50 ng
1,2-Dichloropropane	4.93	5.52	4.99	5.45	5.16	5.46	6.23	0.44	7	50 ng
Bromodichloromethane	4.61	5.58	5.04	5.23	5.22	5.45	6.46	0.57	9	50 ng
cis-1,3-Dichloropropene	4.56	5.13	4.78	4.67	4.86	4.95	5.87	0.43	7	50 ng
trans-1,3-Dichloropropene	4.25	5.21	4.76	4.94	4.92	5.08	6.11	0.56	9	50 ng
1,1,2-Trichloroethane	4.65	5.62	5.45	5.60	5.39	5.83	6.87	0.66	10	50 ng
Dibromochloromethane	4.28	5.30	4.96	5.24	5.31	5.50	6.54	0.68	11	50 ng
Bromoform	4.16	5.08	5.01	5.11	5.18	5.36	6.14	0.58	9	50 ng
4-Methyl-2-Pentanone	6.48	6.95	6.81	5.96	6.70	6.52	7.41	0.45	7	50 ng
Toluene	4.98	5.13	4.88	4.74	4.81	4.59	5.79	0.39	6	50 ng
Tetrachloroethene	4.62	4.91	4.38	4.42	4.40	3.89	5.70	0.57	9	50 ng
2-Hexanone	5.71	6.20	5.85	6.59	5.88	5.27	5.50	0.44	7	50 ng
Chlorobenzene	4.80	5.31	4.74	4.94	4.94	4.76	5.99	0.45	7	50 ng
Ethylbenzene	4.71	5.22	5.04	4.84	4.67	4.26	5.69	0.45	7	50 ng
Xylene (total)	4.79	5.12	4.92	4.69	4.53	4.22	5.82	0.50	8	50 ng
Styrene	4.78	5.25	4.68	4.79	4.69	4.37	5.76	0.46	7	50 ng
m/p-Xylene	9.88	9.97	8.94	9.15	8.88	8.47	11.00	0.86	14	50 ng
1,1,2,2-Tetrachloroethane	4.96	5.74	5.71	5.47	4.29	5.61	6.51	0.70	11	50 ng

H2M LABS, INC.

II. SAMPLE DATA PACKAGE FOR VOLATILE ORGANICS

- A. REPORTS**
- B. RAW DATA**

H2M LABS, INC.

QUALIFIERS FOR REPORTING ORGANICS DATA

Value - If the result is a value greater than or equal to the quantification limit, report the value.

U - Indicates compound was analyzed for but not detected. The sample quantitation limit must be corrected for dilution and for percent moisture. For example, 10U for phenol in water if the sample final volume is the protocol-specified final volume. If a 1 to 10 dilution of extract is necessary, the reported limit is 100 U. For a soil sample, the value must also be adjusted for percent moisture. For example, if the sample had 24% moisture and a 1 to 10 dilution factor, the sample quantitation limit for phenol (330 U) would be corrected to

$$\frac{(330 \text{ U}) \times \text{df}}{D} \text{ where } D = \frac{100 - \% \text{ moisture}}{100}$$

and df = dilution factor

For example, at 24% moisture, $D = \frac{100 - 24}{100} = 0.76$

$$\frac{(330 \text{ U}) \times 10}{0.76} = 4300 \text{ U rounded to the appropriate number of significant figures}$$

For semivolatile soil samples, the extract must be concentrated to 0.5 mL, and the sensitivity of the analysis is not compromised by the cleanup procedures. Similarly, pesticide samples subjected to GPC are concentrated to 5.0 mL. Therefore, the CRQL values in Exhibit C will apply to all samples, regardless of cleanup. However, if a sample extract cannot be concentrated to the protocol-specified volume (see Exhibit C), this fact must be accounted for in reporting the sample quantitation limit.

J - Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed or when the mass spectral data indicates the presence of a compound that meets the identification criteria but the result is less than the specified quantification limit but greater than zero. (e.g.: If limit of quantification is 10 ug/l and a concentration of 3 ug/l is calculated, report as JJ.) The sample quantitation limit must be adjusted for dilution as discussed for the U flag.

N - Indicates presumptive evidence of a compound. This flag is only used for tentatively identified compounds, where the identification is based on a mass spectral library search. It is applied to all TIC results. For generic characterization of a TIC, such as chlorinated hydrocarbon, the N code is not used.

P - This flag is used for a pesticide/Aroclor target analyte when there is greater than 25% difference for detected concentrations between the two GC columns (see Form X). The lower of the two values is reported on Form I and flagged with a "P".

C - This flag applies to pesticide results where the identification has been confirmed by GC/MS. If GC/MS confirmation was attempted but was unsuccessful, do not apply this flag, instead use a Laboratory-defined flag, discussed below.

H2M LABS, INC.

B - This flag is used when the analyte is found in the associated blank as well as in the sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action. This flag must be used for a TIC as well as for a positively identified target compound.

E - This flag identifies compounds whose concentrations exceed the calibration range of the GC/MS instrument for that specific analysis. If one or more compounds have a response greater than full scale, except as noted in Exhibit D, the sample or extract must be diluted and re-analyzed according to the specifications in Exhibit D. All such compounds with a response greater than full scale should have the concentration flagged with an "E" on the Form I for the original analysis. If the dilution of the extract causes any compounds identified in the first analysis to be below the calibration range in the second analysis, then the results of both analyses shall be reported on separate copies of Form I. The Form I for the diluted sample shall have the "DL" suffix appended to the sample number. NOTE: For total xylenes, where three isomers are quantified as two peaks, the calibration range of each peak should be considered separately, e.g., a diluted analysis is not required for total xylenes unless the concentration of the peak representing the single isomer exceeds 200 ug/l or the peak representing the two coeluting isomers on that GC column exceeds 400 ug/l. Similarly, if the two 1,2-Dichloroethene isomers coelute, a diluted analysis is not required unless the concentration exceeds 400 ug/l.

D - This flag identifies all compounds identified in an analysis at a secondary dilution factor. If a sample or extract is re-analyzed at a higher dilution factor, as in the "E" flag above, the "DL" suffix is appended to the sample number on the Form I for the diluted sample, and all concentration values reported on that Form I are flagged with the "D" flag. This flag alerts data users that any discrepancies between the concentrations reported may be due to dilution of the sample or extract.

A - This flag indicates that a TIC is a suspected aldol-condensation product.

X - Other specific flags may be required to properly define the results. If used, they must be fully described, and such description attached to the Sample Data Summary Package and the SDG narrative. Begin by using "X". If more than one flag is required, use "Y" and "Z" as needed. If more than five qualifiers are required for a sample result, use the "X" flag to combine several flags as needed. For instance, the "X" flag might combine "A", "B", and "D" flags for some samples. The Laboratory defined flags limited to the letters "X", "Y" and "Z".

The combination of flags "BU" or "UB" is expressly prohibited. Blank contaminants are flagged "B" only when they are detected in the sample.

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B60211

Lab Name: H2M LABS INC. Contract: _____
 Lab Code: _____ Case No.: RA096 SAS No.: _____ SDG No.: NDEC012
 Matrix: (soil/water) SOIL Lab Sample ID: 9702025
 Sample wt/vol: 5.0 (g/ml) G Lab File ID: P05476.D
 Level: (low/med) LOW Date Received: 01/23/97
 % Moisture: not dec. 6.5 Date Analyzed: 01/24/97
 GC Column: RTX502. ID: 0.53 (mm) Dilution Factor: 1.0
 Soil Extract Volume _____ (uL) Soil Aliquot Volume: _____ (uL)

AGSP-02
(5'-7')

CONCENTRATION UNITS:

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

74-87-3	Chloromethane	11	U
74-83-9	Bromomethane	11	U
75-01-4	Vinyl Chloride	11	U
75-00-3	Chloroethane	11	U
75-09-2	Methylene Chloride	1	J
67-64-1	Acetone	11	U
75-15-0	Carbon Disulfide	11	U
75-35-4	1,1-Dichloroethene	11	U
75-34-4	1,1-Dichloroethane	11	U
540-59-0	1,2-Dichloroethene (total)	11	U
67-66-3	Chloroform	11	U
107-06-2	1,2-Dichloroethane	11	U
78-93-3	2-Butanone	11	U
71-55-6	1,1,1-Trichloroethane	1	J
56-23-5	Carbon Tetrachloride	11	U
75-27-4	Bromodichloromethane	11	U
78-87-5	1,2-Dichloropropane	11	U
10061-01-5	cis-1,3-Dichloropropene	11	U
79-01-6	Trichloroethene	380	E
71-43-2	Benzene	11	U
124-48-1	Dibromochloromethane	11	U
10061-02-6	trans-1,3-Dichloropropene	11	U
79-00-5	1,1,2-Trichloroethane	11	U
75-25-2	Bromoform	11	U
108-10-1	4-Methyl-2-Pentanone	11	U
591-78-6	2-Hexanone	11	U
127-18-4	Tetrachloroethene	2	J
79-34-5	1,1,2,2-Tetrachloroethane	11	U
108-88-3	Toluene	11	U
108-90-7	Chlorobenzene	11	U
100-41-4	Ethylbenzene	11	U
100-42-5	Styrene	11	U
1330-20-7	Xylene (total)	11	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

B60211

Lab Name: H2M LABS INC. Contract: _____

Lab Code: _____ Case No.: RA096 SAS No.: _____ SDG No.: NDEC012

Matrix: (soil/water) SOIL Lab Sample ID: 9702025

Sample wt/vol: 5.0 (g/ml) G Lab File ID: P05476.D

Level: (low/med) LOW Date Received: 01/23/97

% Moisture: not dec. 6.5 Date Analyzed: 01/24/97

GC Column: RTX502. ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume X (uL) Soil Aliquot Volume: 1 (uL)

CONCENTRATION UNITS:

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

Number TICs found: 0

CAS NO.	COMPOUND	RT	EST. CONC.	Q

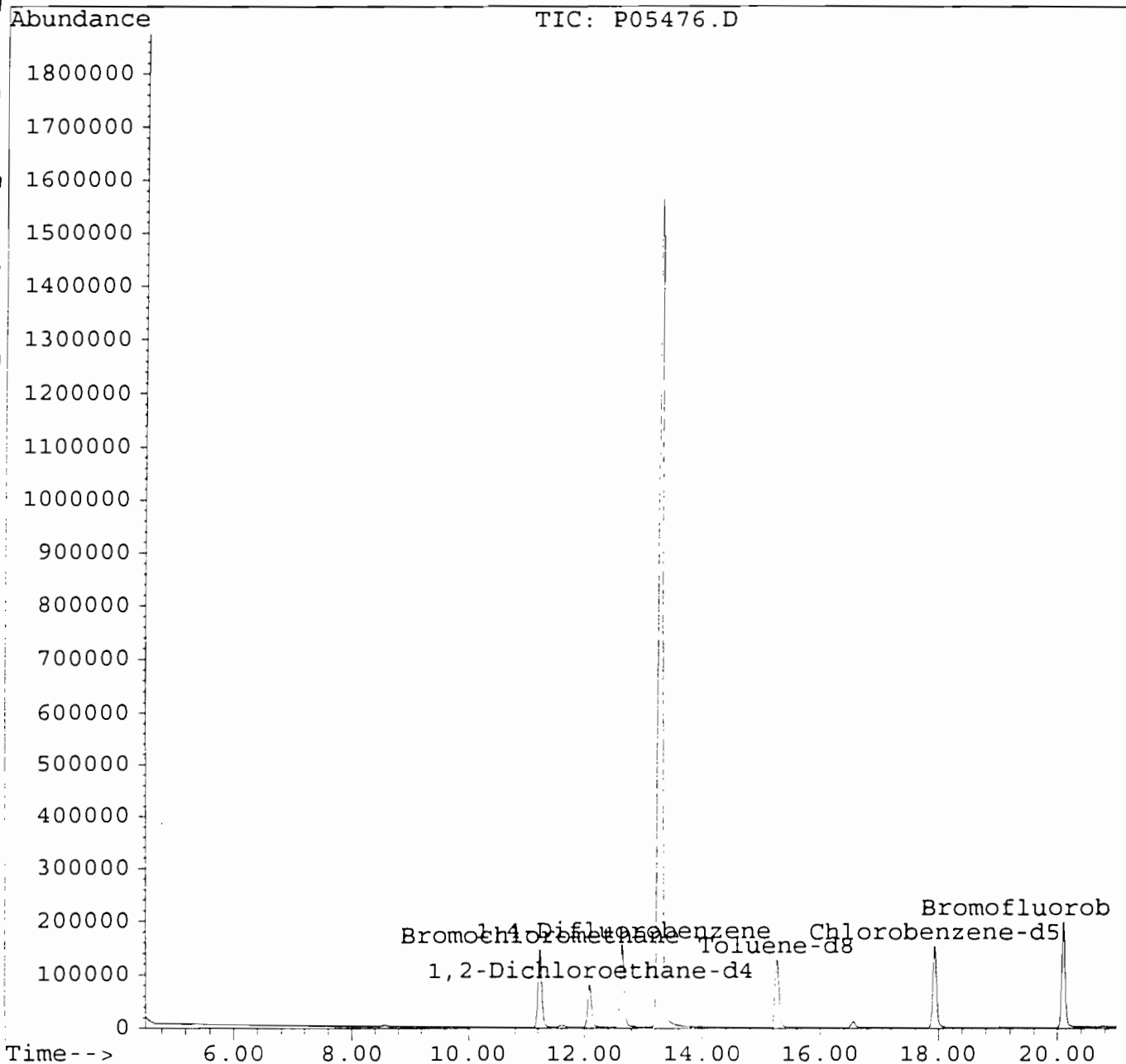
V 0027

Quantitation Report

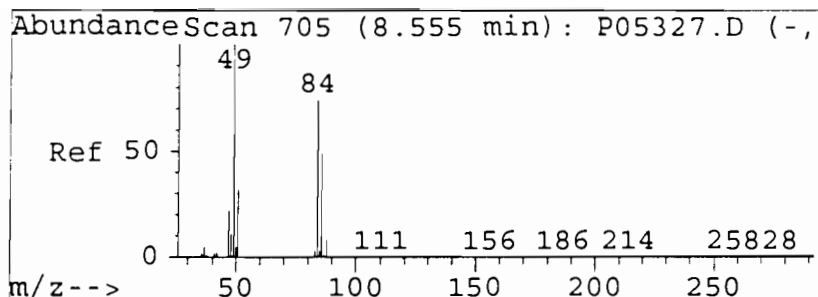
Data File : S:\MS\HP#3\JAN97\P05476.D
Acq On : 24 Jan 97 6:18 pm
Sample : 9702025
Misc : B60211 H5970-3 1/24/97 5.0G
Quant Time: Jan 24 18:43 1997

Vial: 16
Operator: GLENN
Inst : 5970 - In
Multiplr: 1.00

Method : S:\MS\HP#3\JAN97\CLPS.M
Title : VOA CLP WATER METHOD
Last Update : Wed Jan 15 13:53:47 1997
Response via : Single Level Calibration

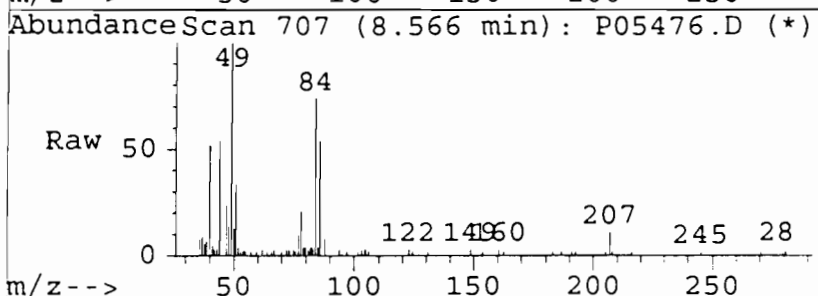


V 0028

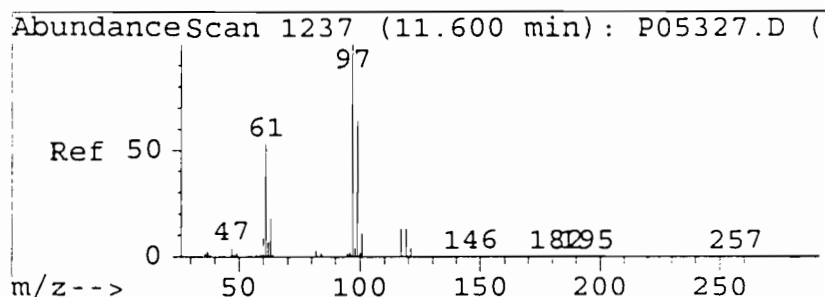
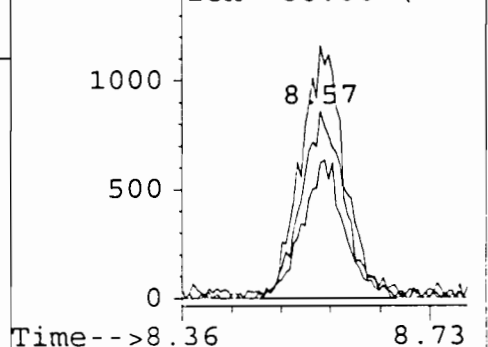
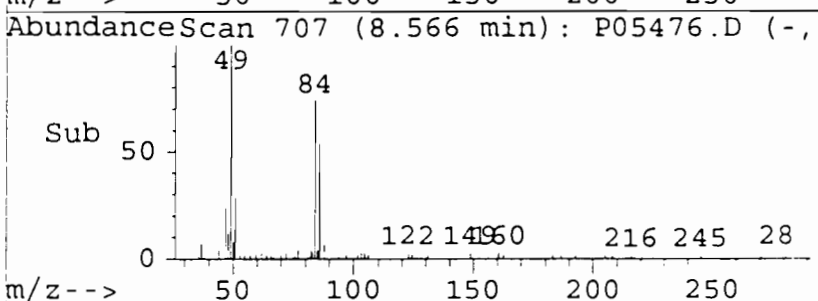


#9
Methylene Chloride
Concen: 1.24 UG/L
RT: 8.57 min Scan# 707
Delta R.T. -0.05 min
Lab File: P05476.D
Acq: 24 Jan 97 6:18 pm

Tgt	Ion:84	Resp:	3818
Ion	Ratio	Lower	Upper
84	100		
49	132.1	113.6	153.6
86	72.8	48.1	88.1
0	0.0	0.0	0.0

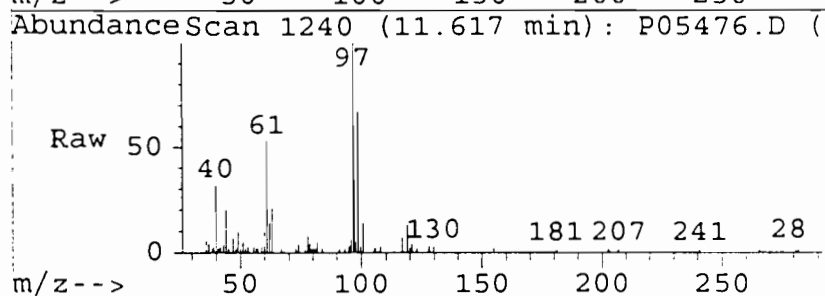


Abundance	Ion	84.00 (83.
	Ion	49.00 (48.
	Ion	86.00 (85.

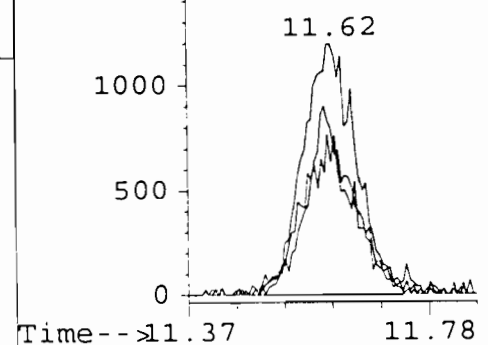
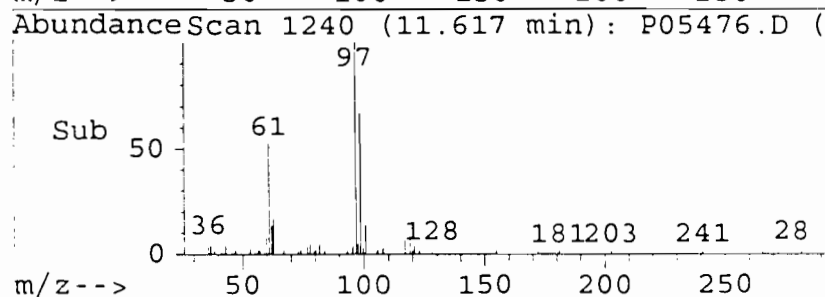


#22
1,1,1-Trichloroethane
Concen: 1.31 UG/L
RT: 11.62 min Scan# 1240
Delta R.T. -0.03 min
Lab File: P05476.D
Acq: 24 Jan 97 6:18 pm

Tgt	Ion:97	Resp:	7486
Ion	Ratio	Lower	Upper
97	100		
99	64.8	46.6	86.6
61	53.3	27.5	67.5
0	0.0	0.0	0.0



Abundance	Ion	97.00 (96.
	Ion	99.00 (98.
	Ion	61.00 (60.



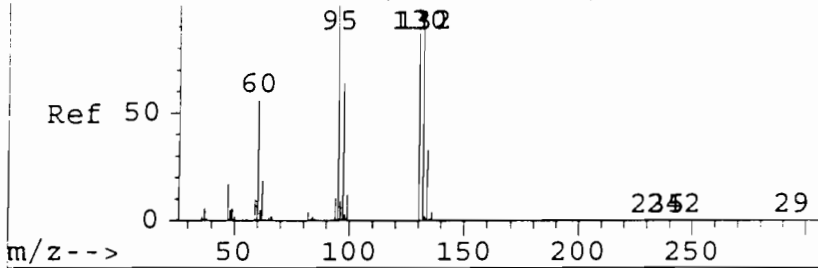
Sample Name: 9702025
Misc. Info: B60211 H5970-3 1/24/97 5.0G
P05476.D CLPS.M Wed Feb 12 15:47:28 1997

JON

V 0032

Page 3

AbundanceScan 1529 (13.271 min): P05327.D (



#24

Trichloroethene

Concen: 358.41 UG/L

RT: 13.28 min Scan# 1530

Delta R.T. -0.03 min

Lab File: P05476.D

Acq: 24 Jan 97 6:18 pm

Tgt Ion:130 Resp: 1201969

Ion	Ratio	Lower	Upper

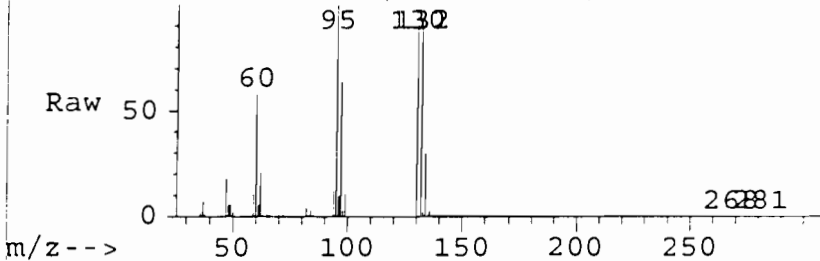
130	100		

132	101.7	82.0	122.0

95	109.3	80.0	120.0

0	0.0	0.0	0.0

AbundanceScan 1530 (13.277 min): P05476.D (



AbundanceIon 130.00 (129

Ion 132.00 (131

Ion 95.00 (94.

13.28

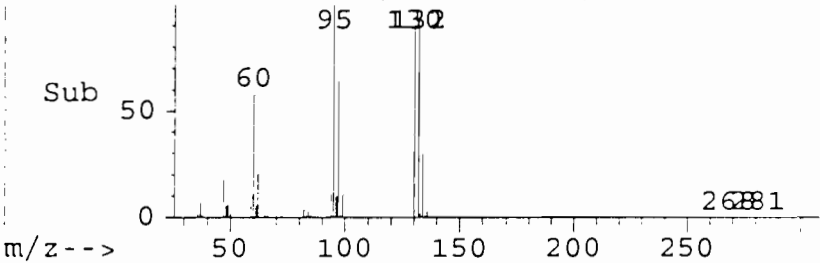
200000

100000

0

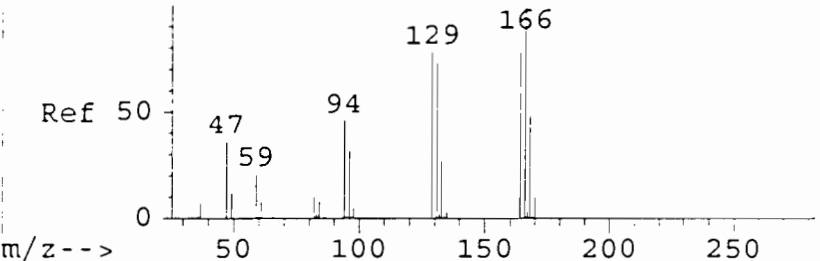
Time-->13.00 13.52

AbundanceScan 1530 (13.277 min): P05476.D (



m/z--> 50 100 150 200 250

AbundanceScan 2100 (16.540 min): P05327.D (



#37

Tetrachloroethene

Concen: 2.23 UG/L

RT: 16.55 min Scan# 2102

Delta R.T. -0.04 min

Lab File: P05476.D

Acq: 24 Jan 97 6:18 pm

Tgt Ion:164 Resp: 6158

Ion	Ratio	Lower	Upper

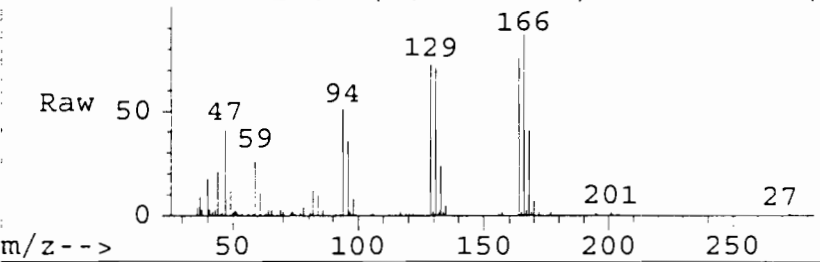
164	100		

166	131.5	109.5	149.5

168	54.4	42.4	82.4

0	0.0	0.0	0.0

AbundanceScan 2102 (16.551 min): P05476.D (



AbundanceIon 164.00 (163

Ion 166.00 (165

Ion 168.00 (167

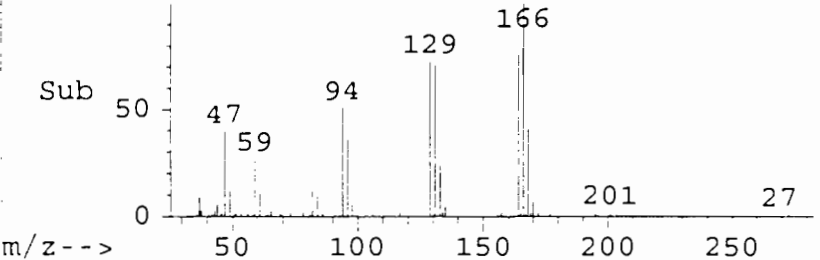
16.55

1000

0

Time-->16.37 16.67

AbundanceScan 2102 (16.551 min): P05476.D (



m/z--> 50 100 150 200 250

Sample Name: 9702025

Misc. Info: B60211 H5970-3 1/24/97 5.0G

P05476.D CLPS.M Wed Feb 12 15:47:33 1997

JON

Page 4

V 0033

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B60211DL

Lab Name: H2M LABS INC. Contract: _____

Lab Code: _____ Case No.: RA096 SAS No.: _____ SDG No.: NDEC012

Matrix: (soil/water) SOIL Lab Sample ID: 9702025DL

Sample wt/vol: 2.0 (g/ml) G Lab File ID: P05486.D

Level: (low/med) LOW Date Received: 01/23/97

% Moisture: not dec. 6.5 Date Analyzed: 01/27/97

GC Column: RTX502. ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

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

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

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

B60211DL

Lab Name: H2M LABS INC. Contract: _____
Lab Code: _____ Case No.: RA096 SAS No.: _____ SDG No.: NDEC012
Matrix: (soil/water) SOIL Lab Sample ID: 9702025DL
Sample wt/vol: 2.0 (g/ml) G Lab File ID: P05486.D
Level: (low/med) LOW Date Received: 01/23/97
% Moisture: not dec. 6.5 Date Analyzed: 01/27/97
GC Column: RTX502 ID: 0.53 (mm) Dilution Factor: 1.0
Soil Extract Volume 1 (uL) Soil Aliquot Volume: 1 (uL)

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

*pmw 112.04
2/25/97*

Number TICs found: 0

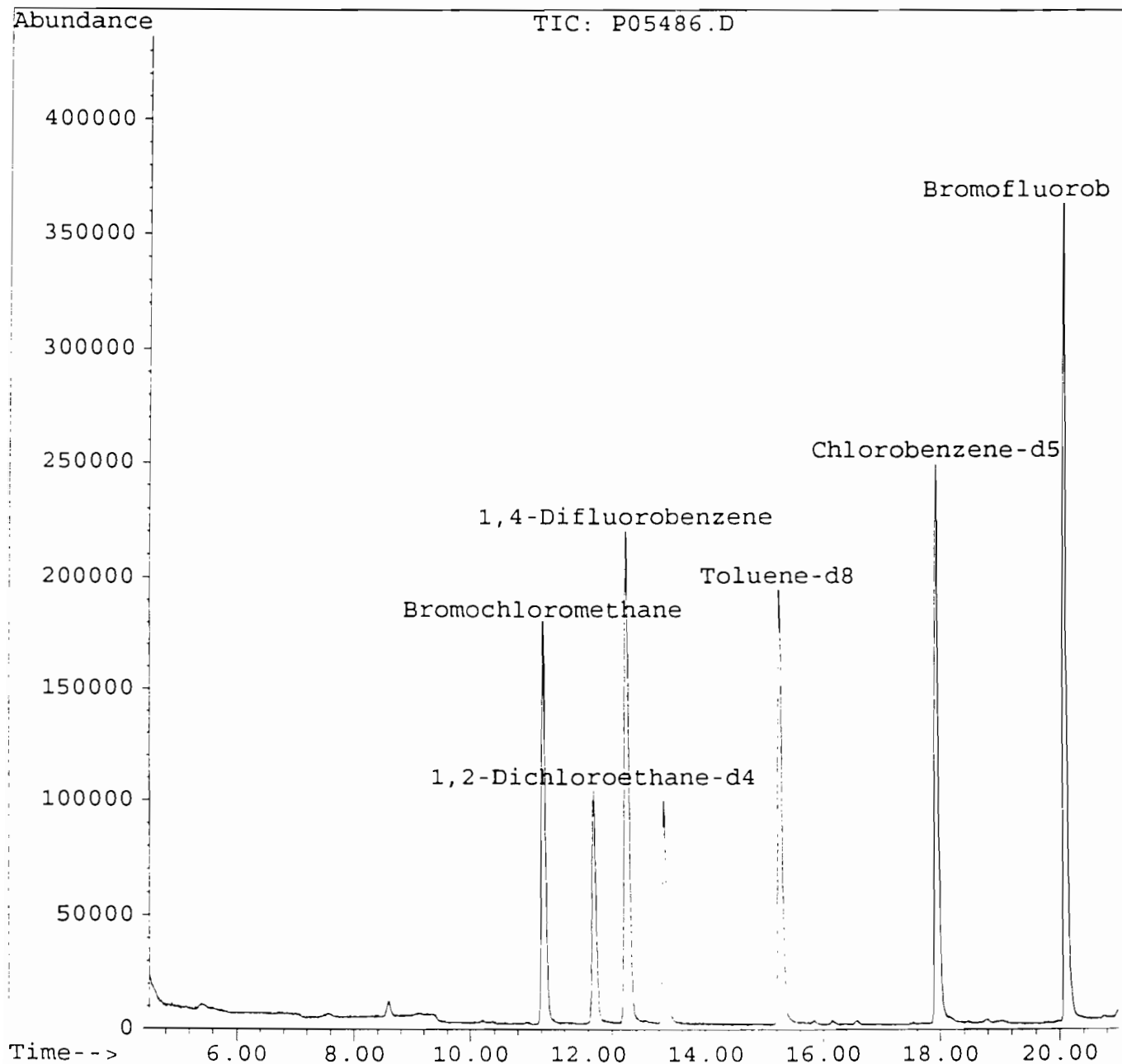
CAS NO.	COMPOUND		RT	EST. CONC.	Q

Quantitation Report

Data File : S:\MS\HP#3\JAN97\P05486.D
Acq On : 27 Jan 97 4:44 pm
Sample : 9702025DL
Misc : B60211DL H5970-3 1/24/97 2.0G
Quant Time: Feb 11 17:34 1997

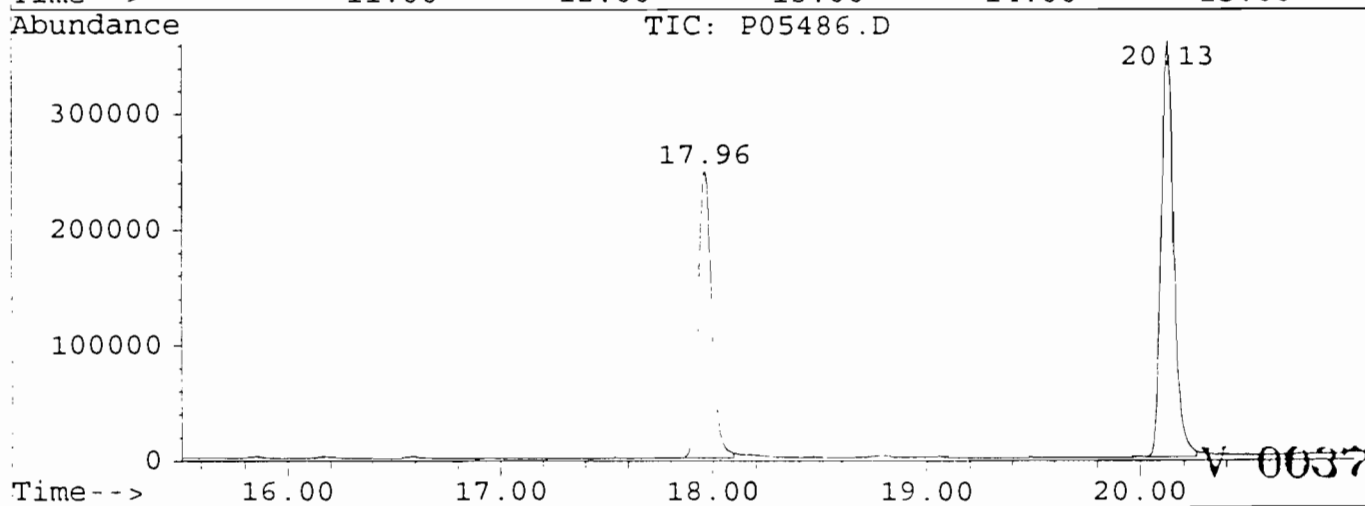
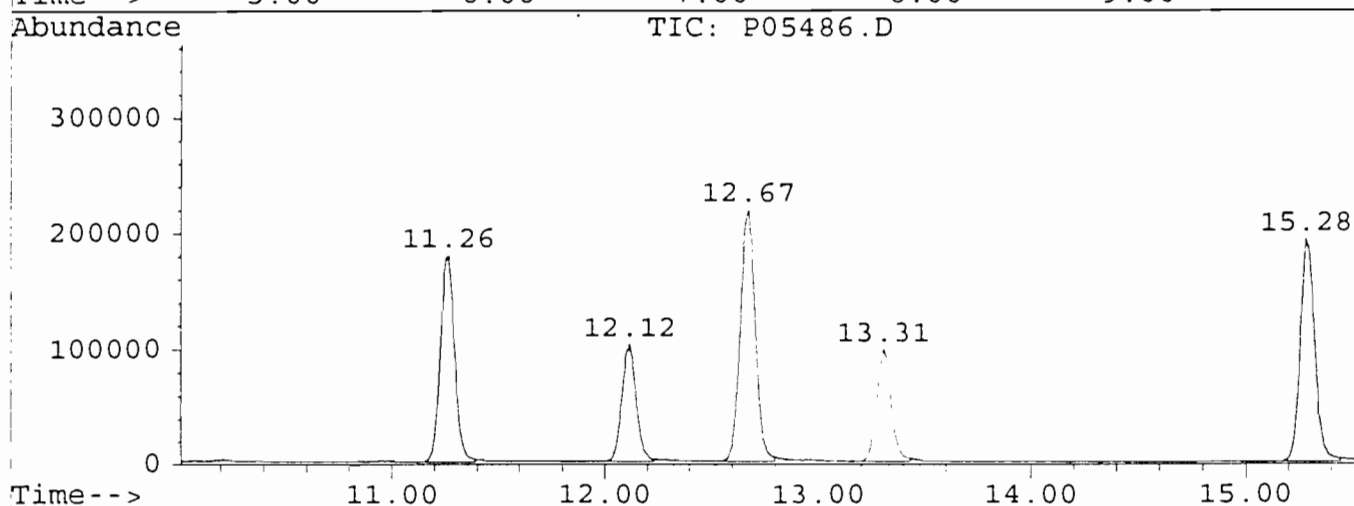
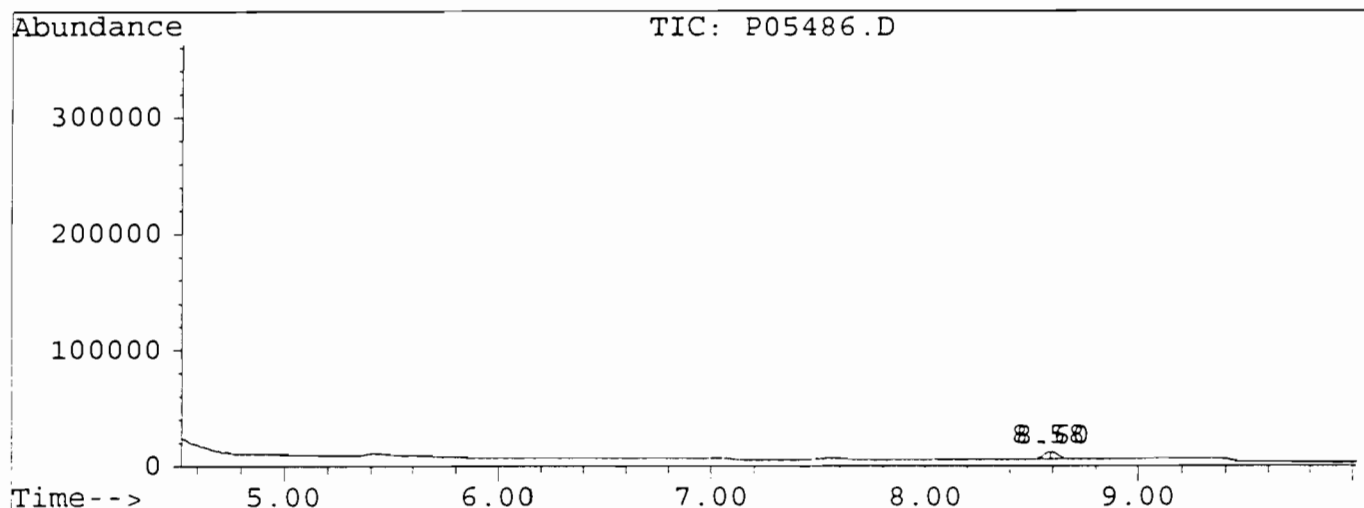
Vial: 3
Operator: GLENN
Inst : 5970 - In
Multiplr: 1.00

Method : S:\MS\HP#3\JAN97\CLPS.M
Title : VOA CLP WATER METHOD
Last Update : Wed Jan 15 13:53:47 1997
Response via : Single Level Calibration



V 0036

File : S:\MS\HP#3\JAN97\P05486.D
Operator : GLENN
Acquired : 27 Jan 97 16:44 using AcqMethod CLPS
Instrument : 5970 - In
Sample Name: 9702025DL
Misc Info : B60211DL H5970-3 1/24/97 2.0G
Vial Number: 3



Quantitation Report

Data File : S:\MS\HP#3\JAN97\P05486.D
 Acq On : 27 Jan 97 16:44
 Sample : 9702025DL
 Misc : B60211DL H5970-3 1/24/97 2.0G
 Quant Time: Feb 11 17:34 1997

Vial: 3
 Operator: GLENN
 Inst : 5970 - In
 Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\CLPS.M
 Title : VOA CLP WATER METHOD
 Last Update : Mon Jan 27 15:49:29 1997
 Response via : Continuing Cal File: C:\HPCHEM\1\DATA\P05484.D

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	11.25	128	107352	50.00	UG/L	0.00
21) 1,4-Difluorobenzene	12.67	114	384576	50.00	UG/L	0.00
33) Chlorobenzene-d5	17.95	117	311003	50.00	UG/L	0.00
System Monitoring Compounds						%Recovery
18) 1,2-Dichloroethane-d4	12.12	65	175080	52.81	UG/L	105.63%
34) Toluene-d8	15.28	98	309866	48.49	UG/L	96.98%
43) Bromofluorobenzene	20.12	95	295579	49.49	UG/L	98.99%
Target Compounds						Qvalue
8) Acetone	7.58	43	3955	3.24	UG/L	79
9) Methylene Chloride	8.60	84	7097	1.93	UG/L	95
24) Trichloroethene	13.30	130	73117	15.79	UG/L	98

Library Search Compound Report

Data File : S:\MS\HP#3\JAN97\P05486.D
Acq On : 27 Jan 97 16:44
Sample : 9702025DL
Misc : B60211DL H5970-3 1/24/97 2.0G

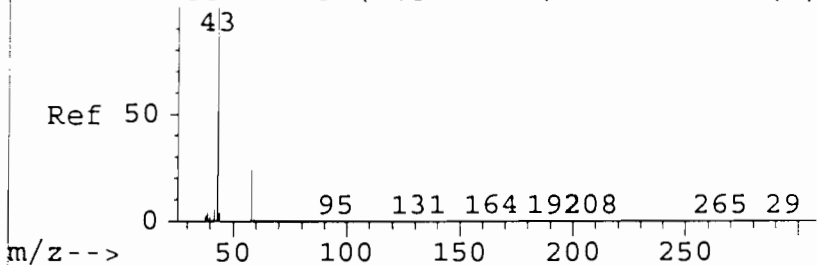
Vial: 3
Operator: GLENN
Inst : 5970 - In
Multiplr: 1.00

Method : S:\MS\HP#3\JAN97\CLPS.M
Title : VOA CLP WATER METHOD
Library : NBS75K.L

No Library Search Compounds Detected

V 0039

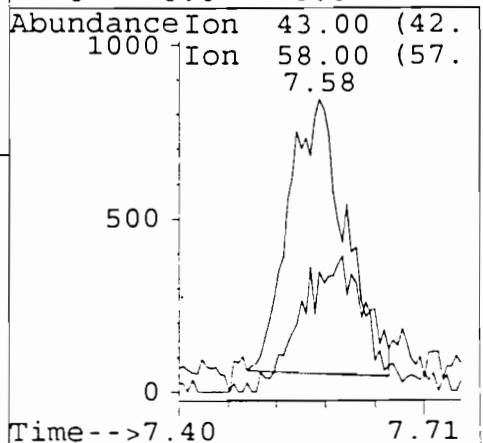
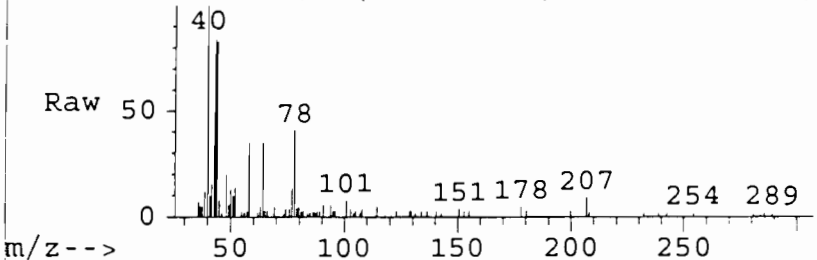
AbundanceScan 525 (7.525 min): P05327.D (-,



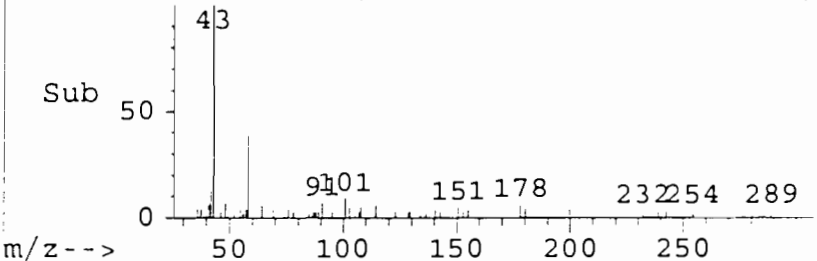
#8
Acetone
Concen: 3.24 UG/L
RT: 7.58 min Scan# 534
Delta R.T. 0.00 min
Lab File: P05486.D
Acq: 27 Jan 97 4:44 pm

Tgt Ion:	43	Resp:	3955
Ion	Ratio	Lower	Upper
43	100		
58	40.9	9.7	49.7
0	0.0	0.0	0.0
0	0.0	0.0	0.0

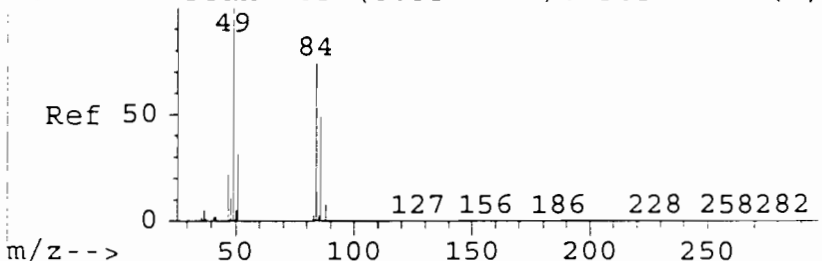
AbundanceScan 534 (7.577 min): P05486.D (*)



AbundanceScan 534 (7.577 min): P05486.D (-,



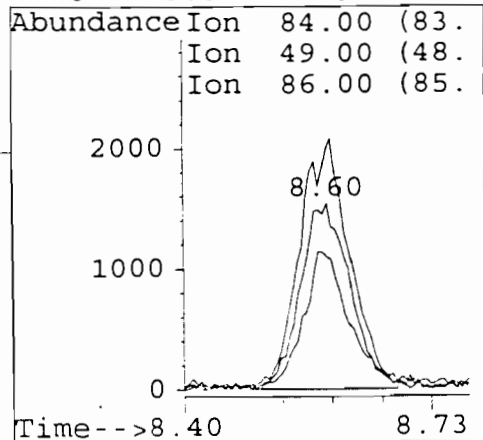
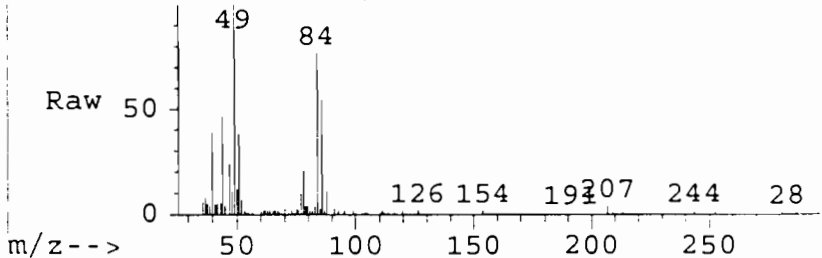
AbundanceScan 705 (8.555 min): P05327.D (-,



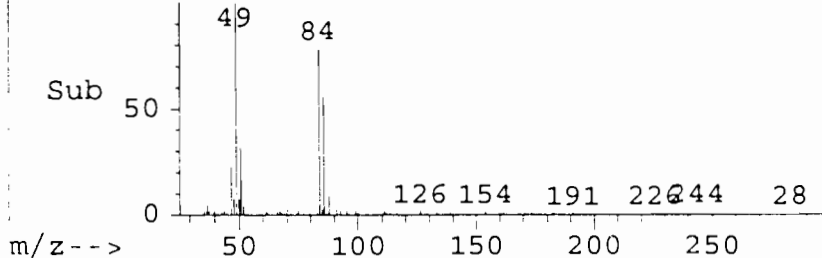
#9
Methylene Chloride
Concen: 1.93 UG/L
RT: 8.60 min Scan# 712
Delta R.T. 0.00 min
Lab File: P05486.D
Acq: 27 Jan 97 4:44 pm

Tgt Ion:	84	Resp:	7097
Ion	Ratio	Lower	Upper
84	100		
49	126.7	113.6	153.6
86	71.1	48.1	88.1
0	0.0	0.0	0.0

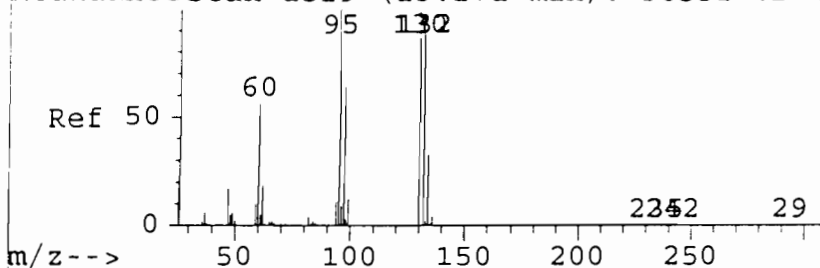
AbundanceScan 712 (8.596 min): P05486.D (*)



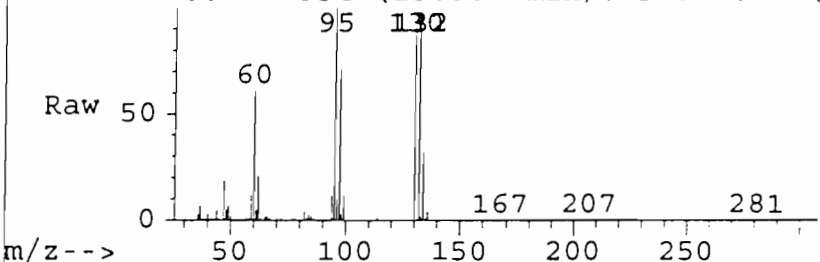
AbundanceScan 712 (8.596 min): P05486.D (-,



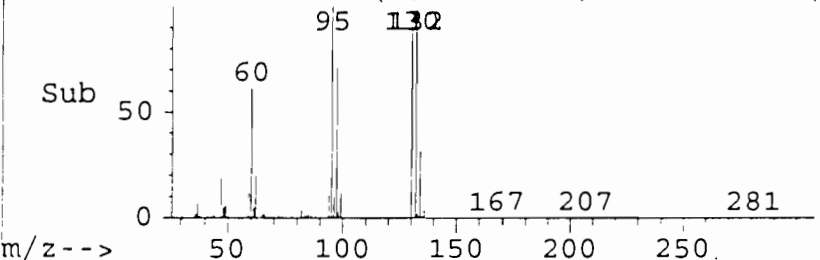
AbundanceScan 1529 (13.271 min): P05327.D (



AbundanceScan 1534 (13.301 min): P05486.D (



AbundanceScan 1534 (13.301 min): P05486.D (



#24

Trichloroethene

Concen: 15.79 UG/L

RT: 13.30 min Scan# 1534

Delta R.T. 0.00 min

Lab File: P05486.D

Acq: 27 Jan 97 4:44 pm

Tgt Ion:	130	Resp:	73117
Ion	Ratio	Lower	Upper
130	100		
132	100.5	82.0	122.0
95	102.1	80.0	120.0
0	0.0	0.0	0.0

AbundanceIon 130.00 (129

Ion 132.00 (131

Ion 95.00 (94.

13.30

15000

10000

5000

0

Time-->13.08

13.47

Sample Name: 9702025DL

Misc. Info: B60211DL H5970-3 1/24/97 2.0G

P05486.D CLPS.M Wed Feb 12 15:54:07 1997

V 0041

JON

Page 4

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B60212

Lab Name: H2M LABS INC. Contract: _____
 Lab Code: _____ Case No.: RA096 SAS No.: _____ SDG No.: NDEC012
 Matrix: (soil/water) SOIL Lab Sample ID: 9702026
 Sample wt/vol: 5.0 (g/ml) G Lab File ID: P05477.D
 Level: (low/med) LOW Date Received: 01/23/97
 % Moisture: not dec. 3.7 Date Analyzed: 01/24/97
 GC Column: RTX502. ID: 0.53 (mm) Dilution Factor: 1.0
 Soil Extract Volume _____ (uL) Soil Aliquot Volume: _____ (uL)

A6SP-02
(10-12)

CONCENTRATION UNITS:

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

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

B60212

Lab Name: H2M LABS INC. Contract: _____
Lab Code: _____ Case No.: RA096 SAS No.: _____ SDG No.: NDEC012
Matrix: (soil/water) SOIL Lab Sample ID: 9702026
Sample wt/vol: 5.0 (g/ml) G Lab File ID: P05477.D
Level: (low/med) LOW Date Received: 01/23/97
% Moisture: not dec. 3.7 Date Analyzed: 01/24/97
GC Column: RTX502. ID: 0.53 (mm) Dilution Factor: 1.0
Soil Extract Volume 1 (uL) Soil Aliquot Volume: 1 (uL)

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

Number TICs found: 0

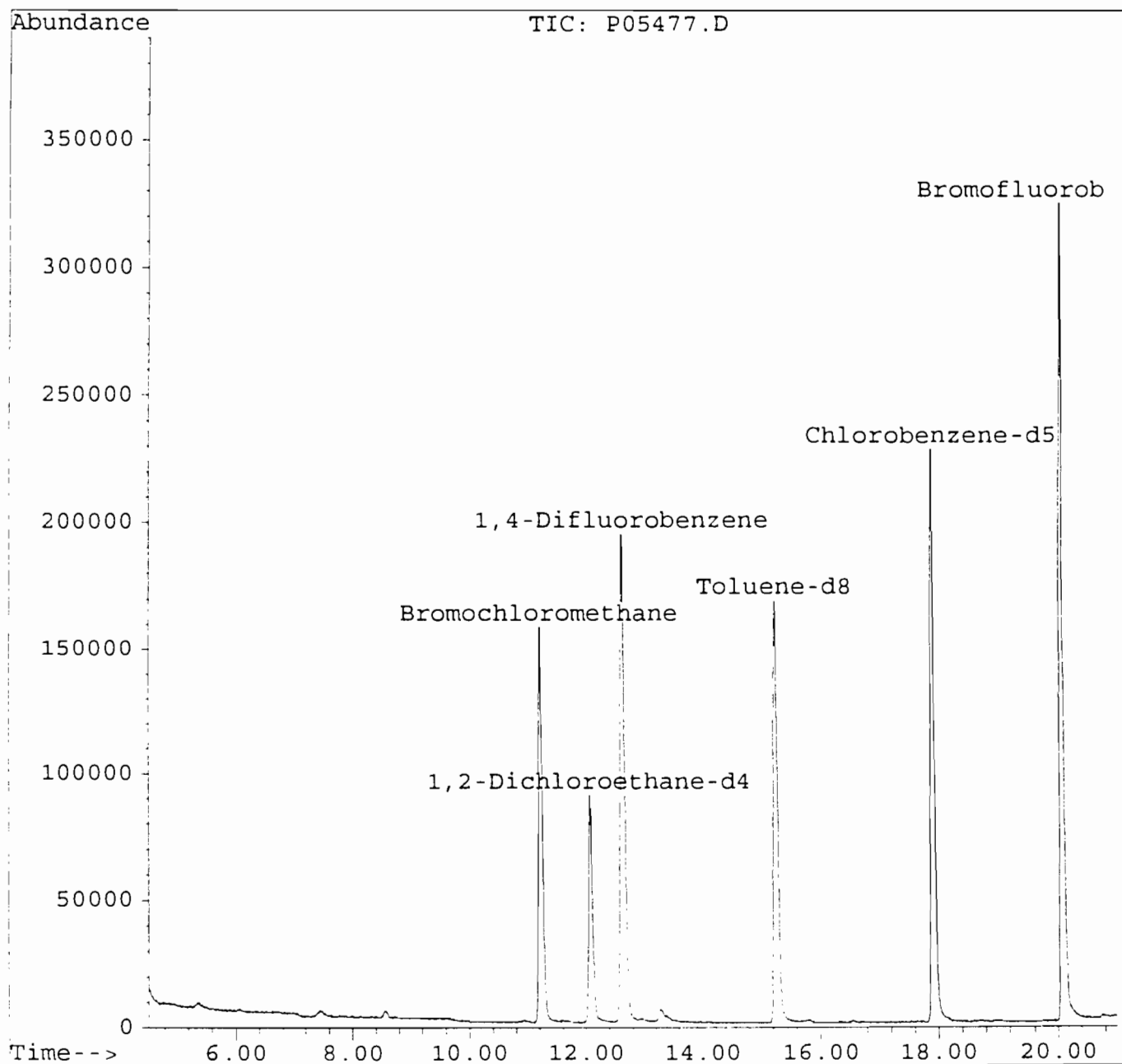
CAS NO.	COMPOUND	RT	EST. CONC.	Q

Quantitation Report

Data File : S:\MS\HP#3\JAN97\P05477.D
Acq On : 24 Jan 97 6:49 pm
Sample : 9702026
Misc : B60212 H5970-3 1/24/97 5.0G
Quant Time: Feb 11 16:24 1997

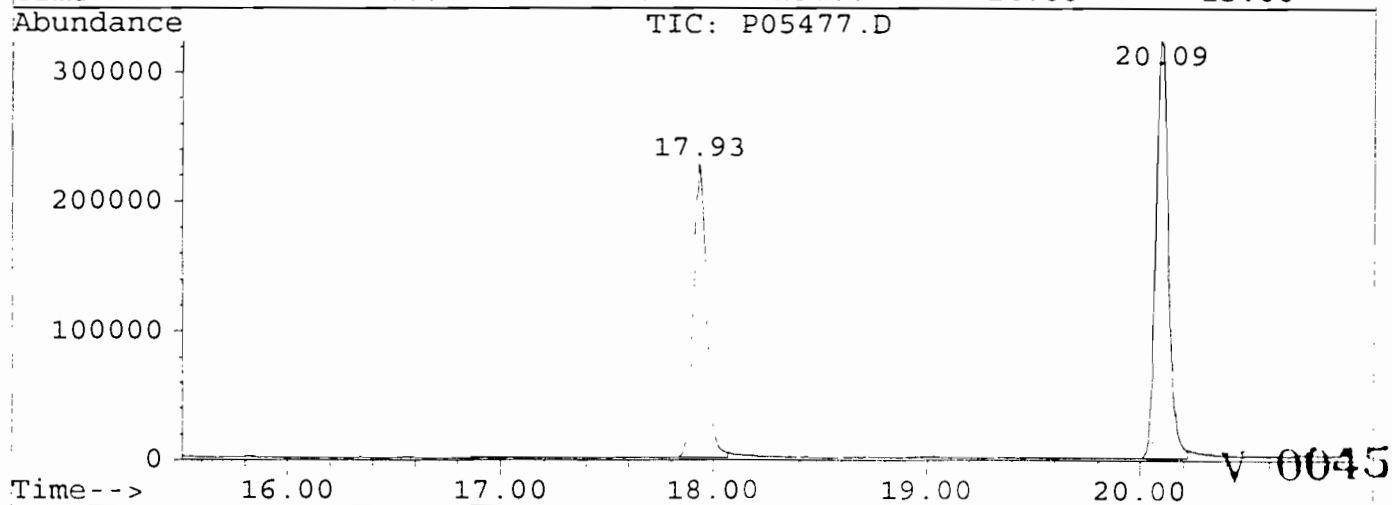
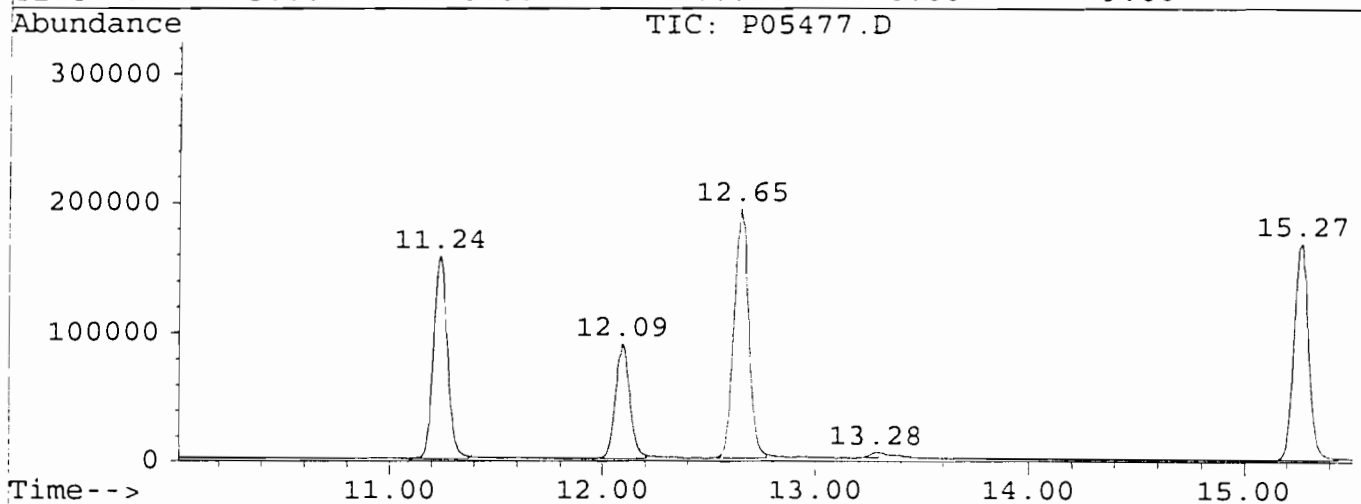
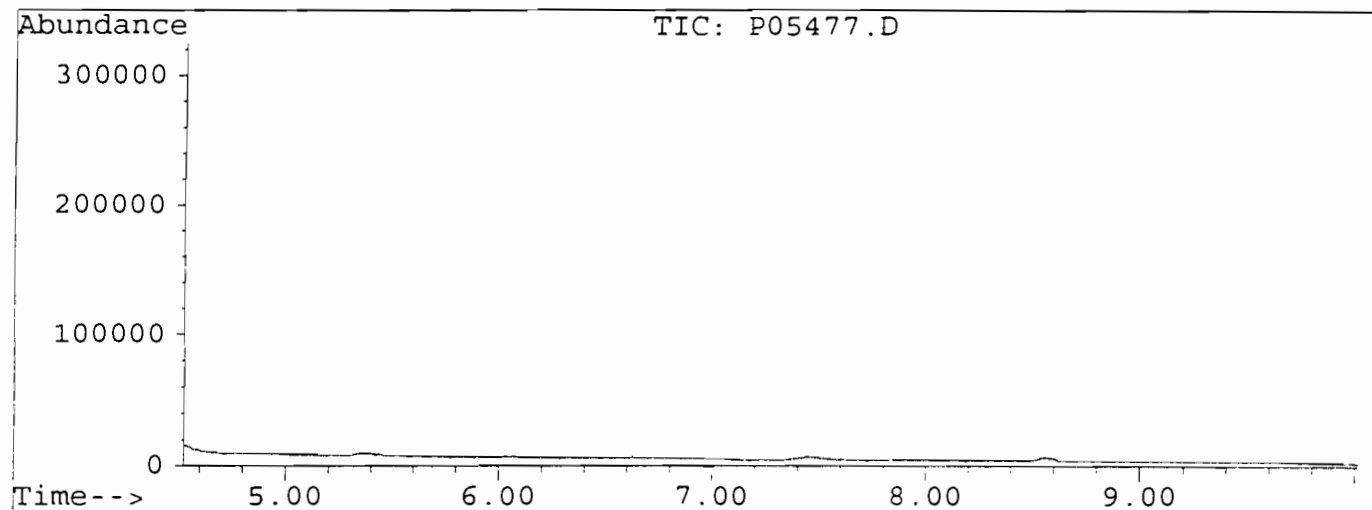
Vial: 1
Operator: GLENN
Inst : 5970 - In
Multiplr: 1.00

Method : S:\MS\HP#3\JAN97\CLPS.M
Title : VOA CLP WATER METHOD
Last Update : Wed Jan 15 13:53:47 1997
Response via : Single Level Calibration



V 0044

File : S:\MS\HP#3\JAN97\P05477.D
Operator : GLENN
Acquired : 24 Jan 97 18:49 using AcqMethod CLPS
Instrument : 5970 - In
Sample Name: 9702026
Misc Info : B60212 H5970-3 1/24/97 5.0G
Vial Number: 1



Quantitation Report

Data File : S:\MS\HP#3\JAN97\P05477.D
 Acq On : 24 Jan 97 18:49
 Sample : 9702026
 Misc : B60212 H5970-3 1/24/97 5.0G
 Quant Time: Feb 11 16:24 1997

Vial: 1
 Operator: GLENN
 Inst : 5970 - In
 Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\CLPS.M
 Title : VOA CLP WATER METHOD
 Last Update : Fri Jan 24 10:47:18 1997
 Response via : Continuing Cal File: C:\HPCHEM\1\DATA\P05461.D

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	11.25	128	95032	50.00	UG/L	-0.03
21) 1,4-Difluorobenzene	12.65	114	334315	50.00	UG/L	-0.03
33) Chlorobenzene-d5	17.93	117	271577	50.00	UG/L	-0.03

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	%Recovery
18) 1,2-Dichloroethane-d4	12.10	65	157921	55.15	UG/L	110.29%
34) Toluene-d8	15.27	98	274278	48.71	UG/L	97.41%
43) Bromofluorobenzene	20.09	95	261992	50.93	UG/L	101.87%

Target Compounds Qvalue

V 0046

Library Search Compound Report

Data File : S:\MS\HP#3\JAN97\P05477.D
Acq On : 24 Jan 97 18:49
Sample : 9702026
Misc : B60212 H5970-3 1/24/97 5.0G

Vial: 1
Operator: GLENN
Inst : 5970 - In
Multiplr: 1.00

Method : S:\MS\HP#3\JAN97\CLPS.M
Title : VOA CLP WATER METHOD
Library : NBS75K.L

No Library Search Compounds Detected

V 0047

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B60213

Lab Name: H2M LABS INC. Contract: _____

Lab Code: _____ Case No.: RA096 SAS No.: _____ SDG No.: NDEC012

Matrix: (soil/water) SOIL Lab Sample ID: 9702027

Sample wt/vol: 5.0 (g/ml) G Lab File ID: P05478.D

Level: (low/med) LOW Date Received: 01/23/97

% Moisture: not dec. 4.3 Date Analyzed: 01/24/97

GC Column: RTX502. ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume _____ (uL) Soil Aliquot Volume: _____ (uL)

A6SP-02
(15'-17')

CONCENTRATION UNITS:

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

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

B60213

Lab Name: H2M LABS INC. Contract: _____
Lab Code: _____ Case No.: RA096 SAS No.: _____ SDG No.: NDEC012
Matrix: (soil/water) SOIL Lab Sample ID: 9702027
Sample wt/vol: 5.0 (g/ml) G Lab File ID: P05478.D
Level: (low/med) LOW Date Received: 01/23/97
% Moisture: not dec. 4.3 Date Analyzed: 01/24/97
GC Column: RTX502 ID: 0.53 (mm) Dilution Factor: 1.0
Soil Extract Volume 1 (uL) Soil Aliquot Volume: 1 (uL)

CONCENTRATION UNITS:

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

Number TICs found: 0

*fmw
H2M
2/27/97*

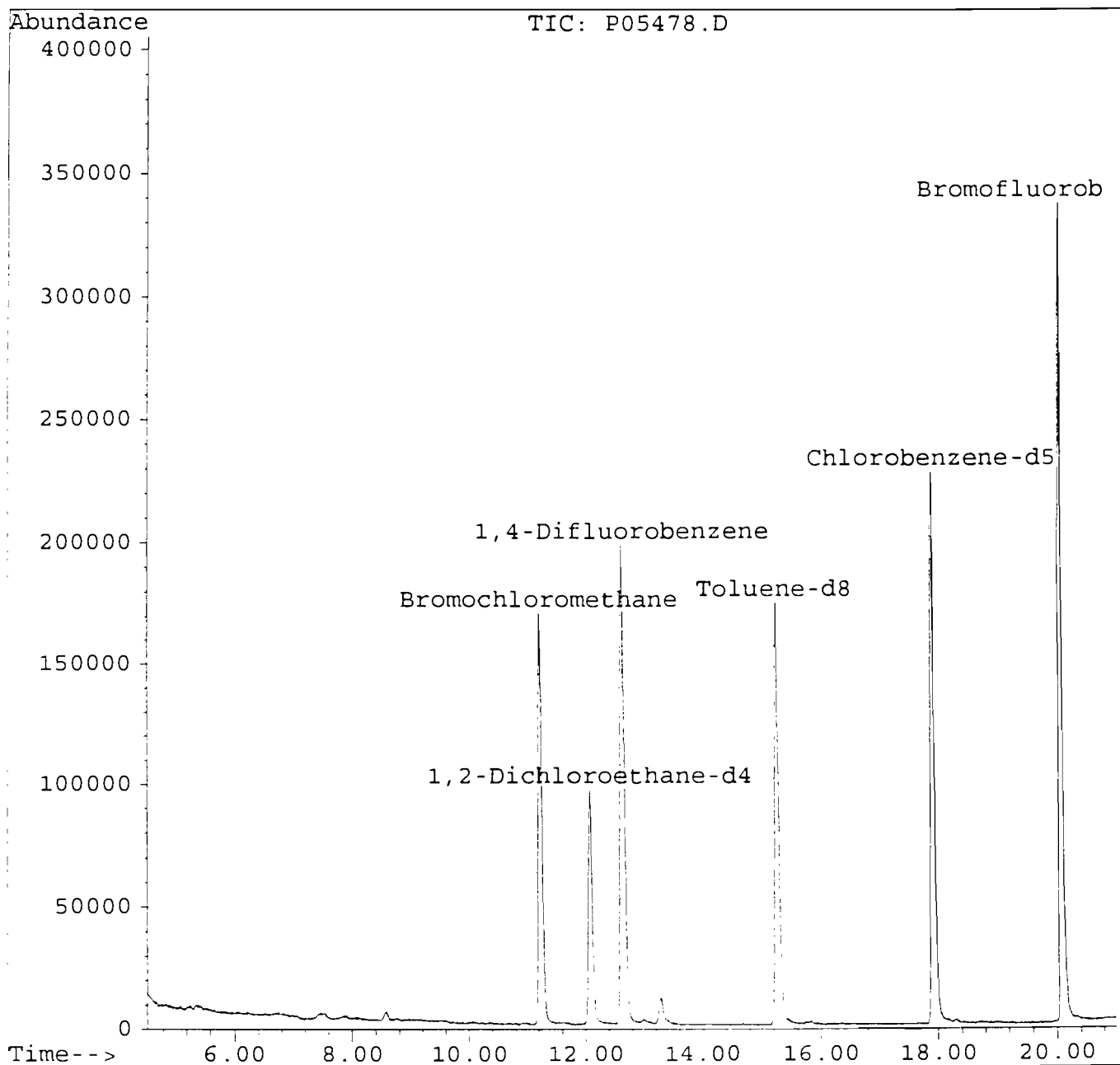
CAS NO.	COMPOUND	RT	EST. CONC.	Q

Quantitation Report

Data File : S:\MS\HP#3\JAN97\P05478.D
Acq On : 24 Jan 97 7:20 pm
Sample : 9702027
Misc : B60213 H5970-3 1/24/97 5.0G
Quant Time: Jan 24 19:45 1997

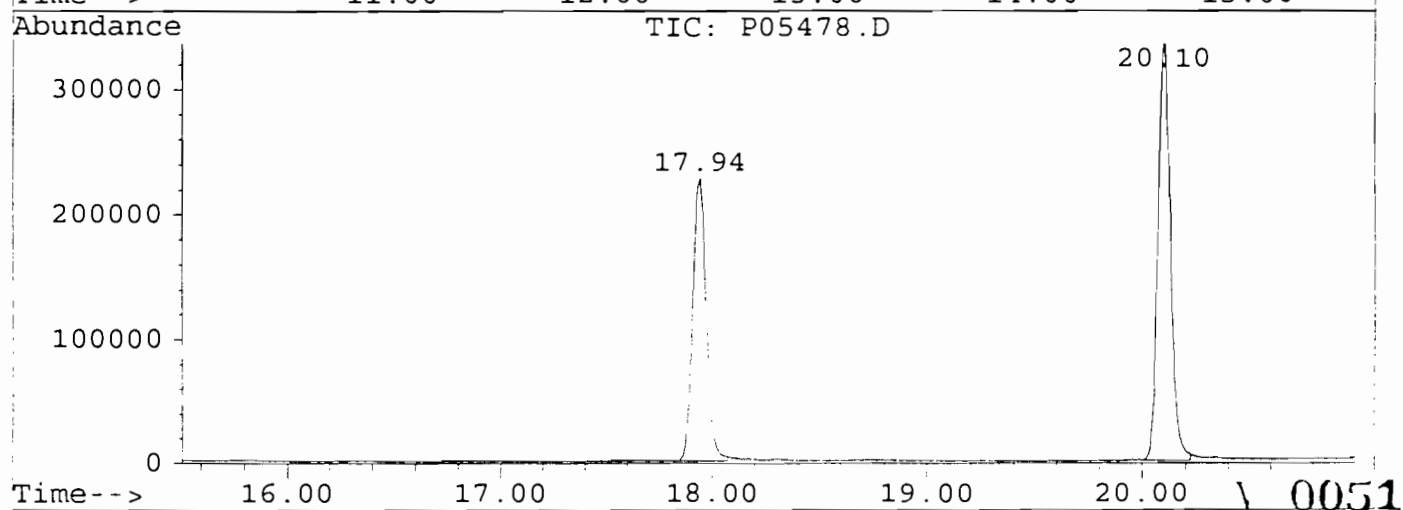
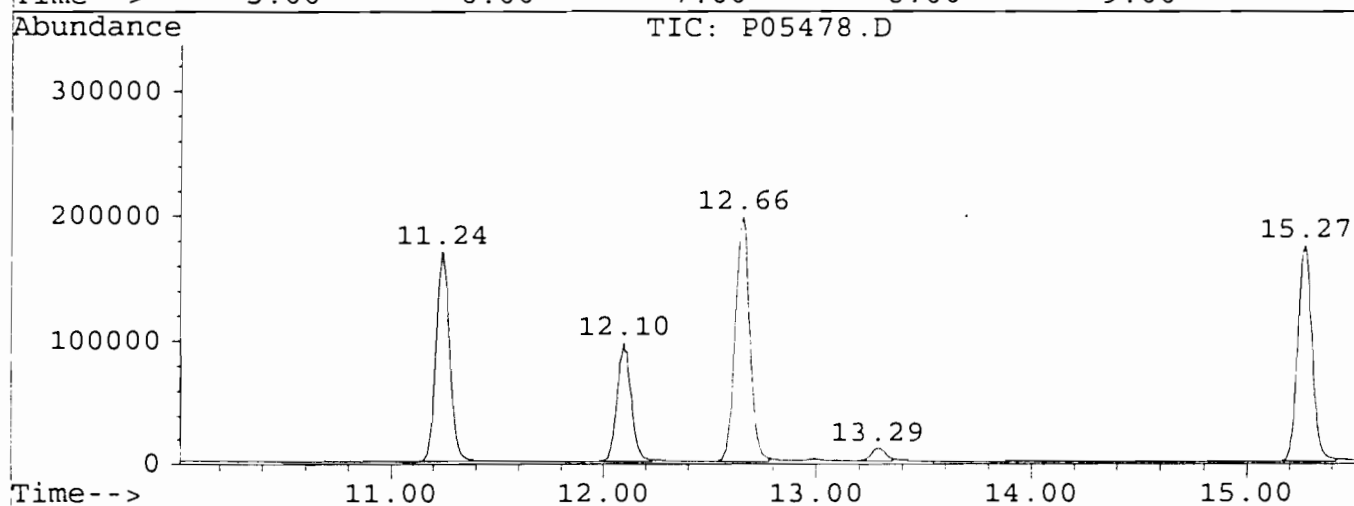
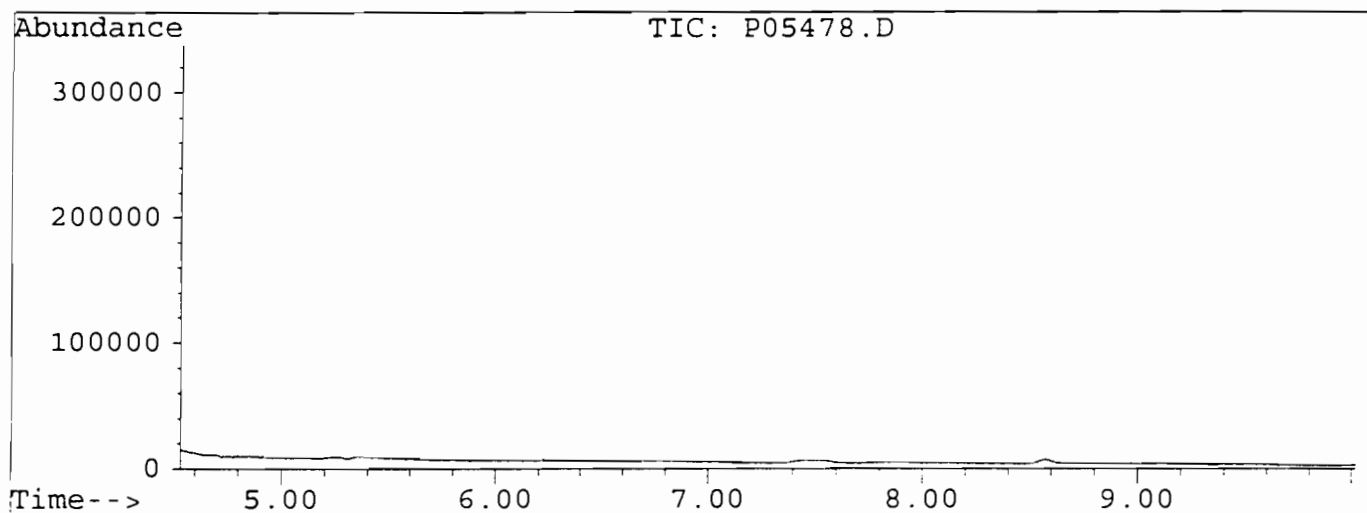
Vial: 2
Operator: GLENN
Inst : 5970 - In
Multiplr: 1.00

Method : S:\MS\HP#3\JAN97\CLPS.M
Title : VOA CLP WATER METHOD
Last Update : Wed Jan 15 13:53:47 1997
Response via : Single Level Calibration



V 0050

File : S:\MS\HP#3\JAN97\P05478.D
Operator : GLENN
Acquired : 24 Jan 97 19:20 using AcqMethod CLPS
Instrument : 5970 - In
Sample Name: 9702027
Misc Info : B60213 H5970-3 1/24/97 5.0G
Vial Number: 2



0051

Quantitation Report

Data File : S:\MS\HP#3\JAN97\P05478.D
 Acq On : 24 Jan 97 19:20
 Sample : 9702027
 Misc : B60213 H5970-3 1/24/97 5.0G
 Quant Time: Jan 24 19:45 1997

Vial: 2
 Operator: GLENN
 Inst : 5970 - In
 Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\CLPS.M
 Title : VOA CLP WATER METHOD
 Last Update : Fri Jan 24 10:47:18 1997
 Response via : Continuing Cal File: C:\HPCHEM\1\DATA\P05461.D

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	11.25	128	100394	50.00	UG/L	-0.03
21) 1,4-Difluorobenzene	12.66	114	341648	50.00	UG/L	-0.03
33) Chlorobenzene-d5	17.94	117	278985	50.00	UG/L	-0.01
System Monitoring Compounds						%Recovery
18) 1,2-Dichloroethane-d4	12.10	65	166389	55.00	UG/L	110.00%
34) Toluene-d8	15.27	98	278785	48.19	UG/L	96.38%
43) Bromofluorobenzene	20.11	95	269713	51.04	UG/L	102.08%
Target Compounds						Qvalue
8) Acetone	7.55	43	4827	4.44	UG/L	98
24) Trichloroethene	13.29	130	8001	1.87	UG/L	91

Library Search Compound Report

Data File : S:\MS\HP#3\JAN97\P05478.D
Acq On : 24 Jan 97 19:20
Sample : 9702027
Misc : B60213 H5970-3 1/24/97 5.0G

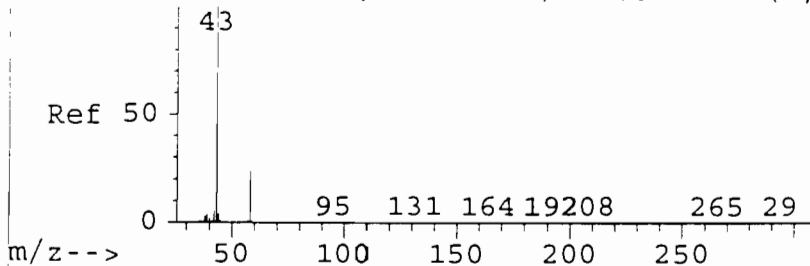
Vial: 2
Operator: GLENN
Inst : 5970 - In
Multiplr: 1.00

Method : S:\MS\HP#3\JAN97\CLPS.M
Title : VOA CLP WATER METHOD
Library : NBS75K.L

No Library Search Compounds Detected

V 0053

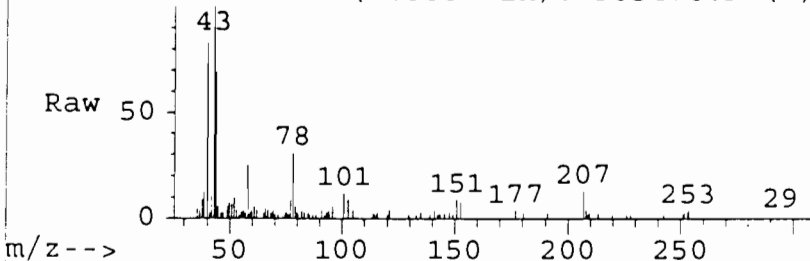
AbundanceScan 525 (7.525 min): P05327.D (-,



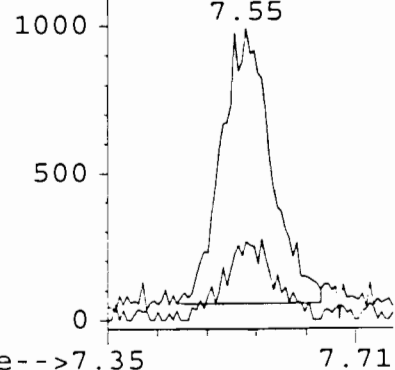
#8
Acetone
Concen: 4.44 UG/L
RT: 7.55 min Scan# 529
Delta R.T. -0.04 min
Lab File: P05478.D
Acq: 24 Jan 97 7:20 pm

Tgt Ion:43	Resp:	4827
Ion Ratio	Lower	Upper
43	100	
58	28.5	9.7 49.7
0	0.0	0.0 0.0
0	0.0	0.0 0.0

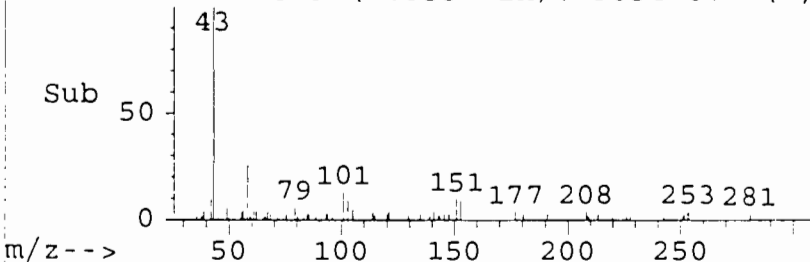
AbundanceScan 529 (7.553 min): P05478.D (*)



AbundanceIon 43.00 (42.
Ion 58.00 (57.
7.55

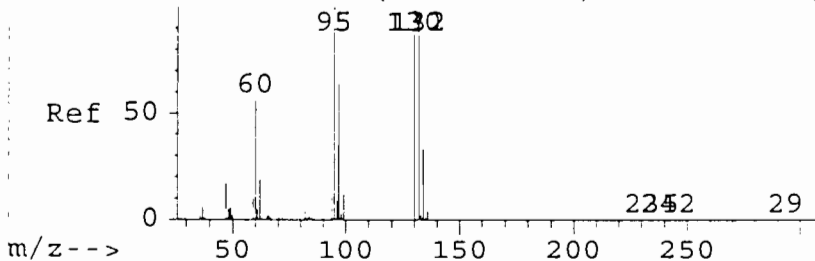


AbundanceScan 529 (7.553 min): P05478.D (-,



Time-->7.35 7.71

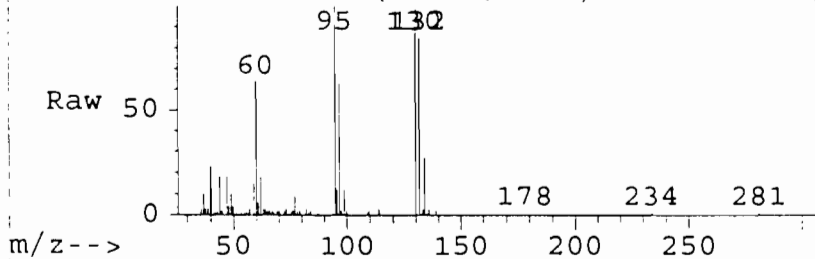
AbundanceScan 1529 (13.271 min): P05327.D (



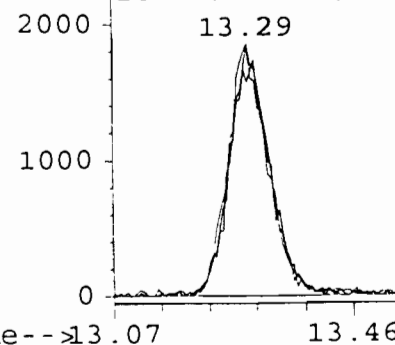
#24
Trichloroethene
Concen: 1.87 UG/L
RT: 13.29 min Scan# 1531
Delta R.T. -0.02 min
Lab File: P05478.D
Acq: 24 Jan 97 7:20 pm

Tgt Ion:130	Resp:	8001
Ion Ratio	Lower	Upper
130	100	
132	85.0	82.0 122.0
95	99.9	80.0 120.0
0	0.0	0.0 0.0

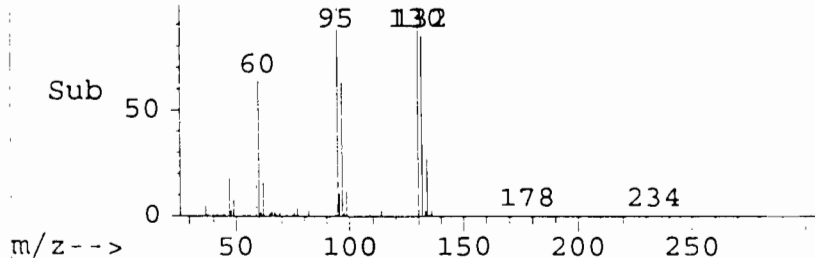
AbundanceScan 1531 (13.289 min): P05478.D (



AbundanceIon 130.00 (129
Ion 132.00 (131
Ion 95.00 (94.
13.29



AbundanceScan 1531 (13.289 min): P05478.D (



Time-->13.07 13.46

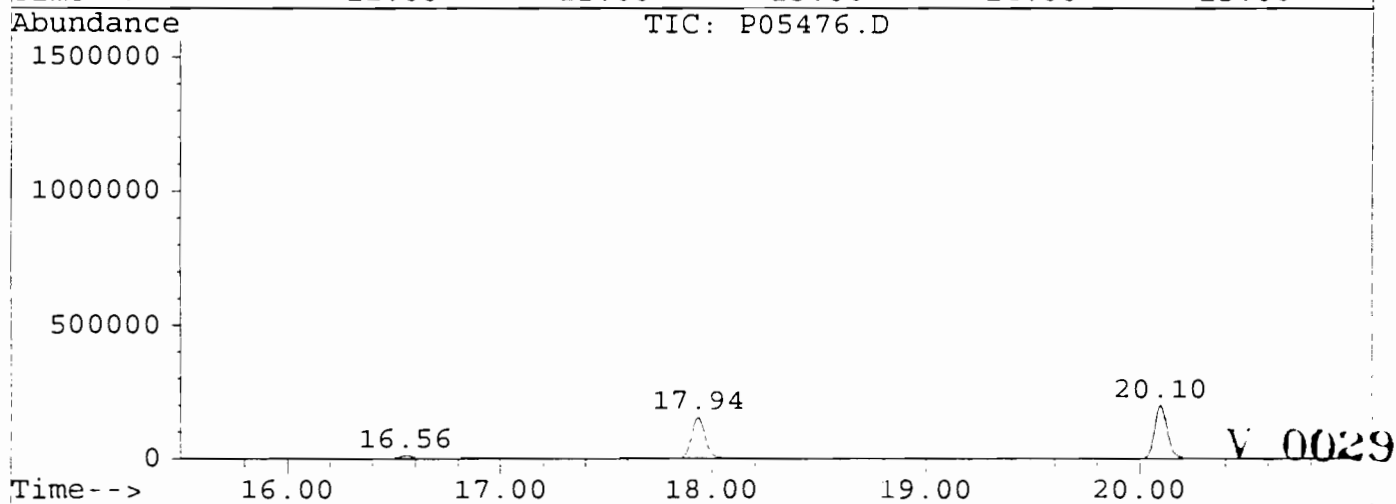
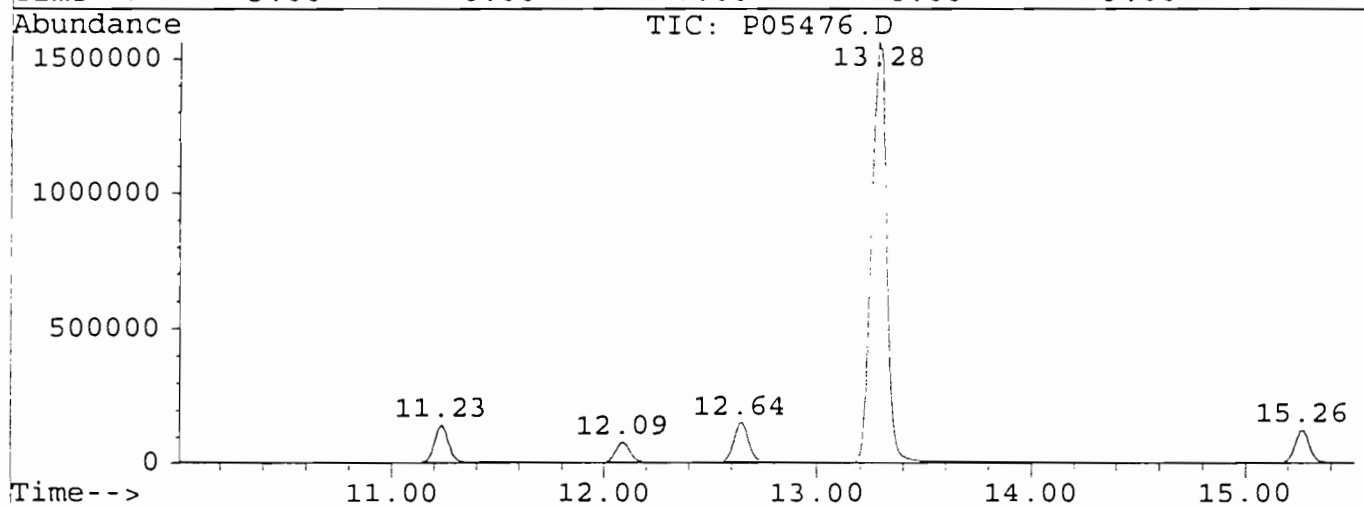
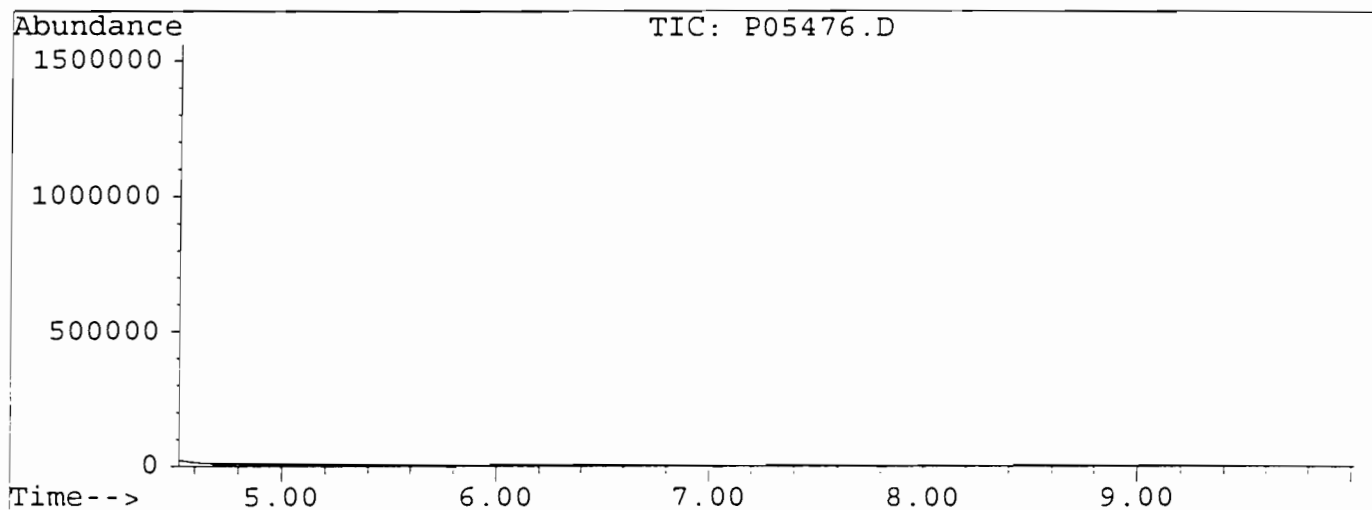
Sample Name: 9702027

Misc. Info: B60213 H5970-3 1/24/97 5.0G
P05478.D CLPS.M Wed Feb 12 15:49:12 1997

JON

V C054
Page 3

File : S:\MS\HP#3\JAN97\P05476.D
Operator : GLENN
Acquired : 24 Jan 97 18:18 using AcqMethod CLPS
Instrument : 5970 - In
Sample Name: 9702025
Misc Info : B60211 H5970-3 1/24/97 5.0G
Vial Number: 16



Quantitation Report

Data File : S:\MS\HP#3\JAN97\P05476.D
 Acq On : 24 Jan 97 18:18
 Sample : 9702025
 Misc : B60211 H5970-3 1/24/97 5.0G
 Quant Time: Jan 24 18:43 1997

Vial: 16
 Operator: GLENN
 Inst : 5970 - In
 Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\CLPS.M
 Title : VOA CLP WATER METHOD
 Last Update : Fri Jan 24 10:47:18 1997
 Response via : Continuing Cal File: C:\HPCHEM\1\DATA\P05461.D

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	11.23	128	85132	50.00	UG/L	-0.04
21) 1,4-Difluorobenzene	12.65	114	268090	50.00	UG/L	-0.03
33) Chlorobenzene-d5	17.94	117	188631	50.00	UG/L	-0.02
System Monitoring Compounds						%Recovery
18) 1,2-Dichloroethane-d4	12.09	65	139751	54.48	UG/L	108.95%
34) Toluene-d8	15.26	98	201668	51.56	UG/L	103.12%
43) Bromofluorobenzene	20.10	95	157701	44.14	UG/L	88.28%
Target Compounds						Qvalue
9) Methylene Chloride	8.57	84	3818	1.24	UG/L	97
22) 1,1,1-Trichloroethane	11.62	97	7486	1.31	UG/L	95
24) Trichloroethene	13.28	130	1201969	358.41	UG/L	95
37) Tetrachloroethene	16.55	164	6158	2.23	UG/L	95

V 0030

(#) = qualifier out of range (m) = manual integration

Library Search Compound Report

Data File : S:\MS\HP#3\JAN97\P05476.D
Acq On : 24 Jan 97 18:18
Sample : 9702025
Misc : B60211 H5970-3 1/24/97 5.0G

Vial: 16
Operator: GLENN
Inst : 5970 - In
Multiplr: 1.00

Method : S:\MS\HP#3\JAN97\CLPS.M
Title : VOA CLP WATER METHOD
Library : NBS75K.L

No Library Search Compounds Detected

V 0031

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B60215DL

Lab Name: H2M LABS INC. Contract: _____
 Lab Code: _____ Case No.: RA096 SAS No.: _____ SDG No.: NDEC012
 Matrix: (soil/water) SOIL Lab Sample ID: 9702029DL
 Sample wt/vol: 2.0 (g/ml) G Lab File ID: P05487.D
 Level: (low/med) LOW Date Received: 01/23/97
 % Moisture: not dec. 6.8 Date Analyzed: 01/27/97
 GC Column: RTX502. ID: 0.53 (mm) Dilution Factor: 1.0
 Soil Extract Volume _____ (uL) Soil Aliquot Volume: _____ (uL)

AGSP-02
(20'-22')

CONCENTRATION UNITS:

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

74-87-3	Chloromethane	27	U
74-83-9	Bromomethane	27	U
75-01-4	Vinyl Chloride	27	U
75-00-3	Chloroethane	27	U
75-09-2	Methylene Chloride	5	JB
67-64-1	Acetone	430	B
75-15-0	Carbon Disulfide	27	U
75-35-4	1,1-Dichloroethene	27	U
75-34-4	1,1-Dichloroethane	27	U
540-59-0	1,2-Dichloroethene (total)	27	U
67-66-3	Chloroform	27	U
107-06-2	1,2-Dichloroethane	27	U
78-93-3	2-Butanone	27	U
71-55-6	1,1,1-Trichloroethane	27	U
56-23-5	Carbon Tetrachloride	27	U
75-27-4	Bromodichloromethane	27	U
78-87-5	1,2-Dichloropropane	27	U
10061-01-5	cis-1,3-Dichloropropene	27	U
79-01-6	Trichloroethene	29	
71-43-2	Benzene	27	U
124-48-1	Dibromochloromethane	27	U
10061-02-6	trans-1,3-Dichloropropene	27	U
79-00-5	1,1,2-Trichloroethane	27	U
75-25-2	Bromoform	27	U
108-10-1	4-Methyl-2-Pentanone	27	U
591-78-6	2-Hexanone	27	U
127-18-4	Tetrachloroethene	27	U
79-34-5	1,1,2,2-Tetrachloroethane	27	U
108-88-3	Toluene	3	J
108-90-7	Chlorobenzene	27	U
100-41-4	Ethylbenzene	27	U
100-42-5	Styrene	27	U
1330-20-7	Xylene (total)	27	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

B60215DL

Lab Name: H2M LABS INC. Contract: _____
Lab Code: _____ Case No.: RA096 SAS No.: _____ SDG No.: NDEC012
Matrix: (soil/water) SOIL Lab Sample ID: 9702029DL
Sample wt/vol: 2.0 (g/ml) G Lab File ID: P05487.D
Level: (low/med) LOW Date Received: 01/23/97
% Moisture: not dec. 6.8 Date Analyzed: 01/27/97
GC Column: RTX502 ID: 0.53 (mm) Dilution Factor: 1.0
Soil Extract Volume 1 (uL) Soil Aliquot Volume: 1 (uL)

CONCENTRATION UNITS:

Number TICs found: 1 (ug/L or ug/Kg) UG/KG

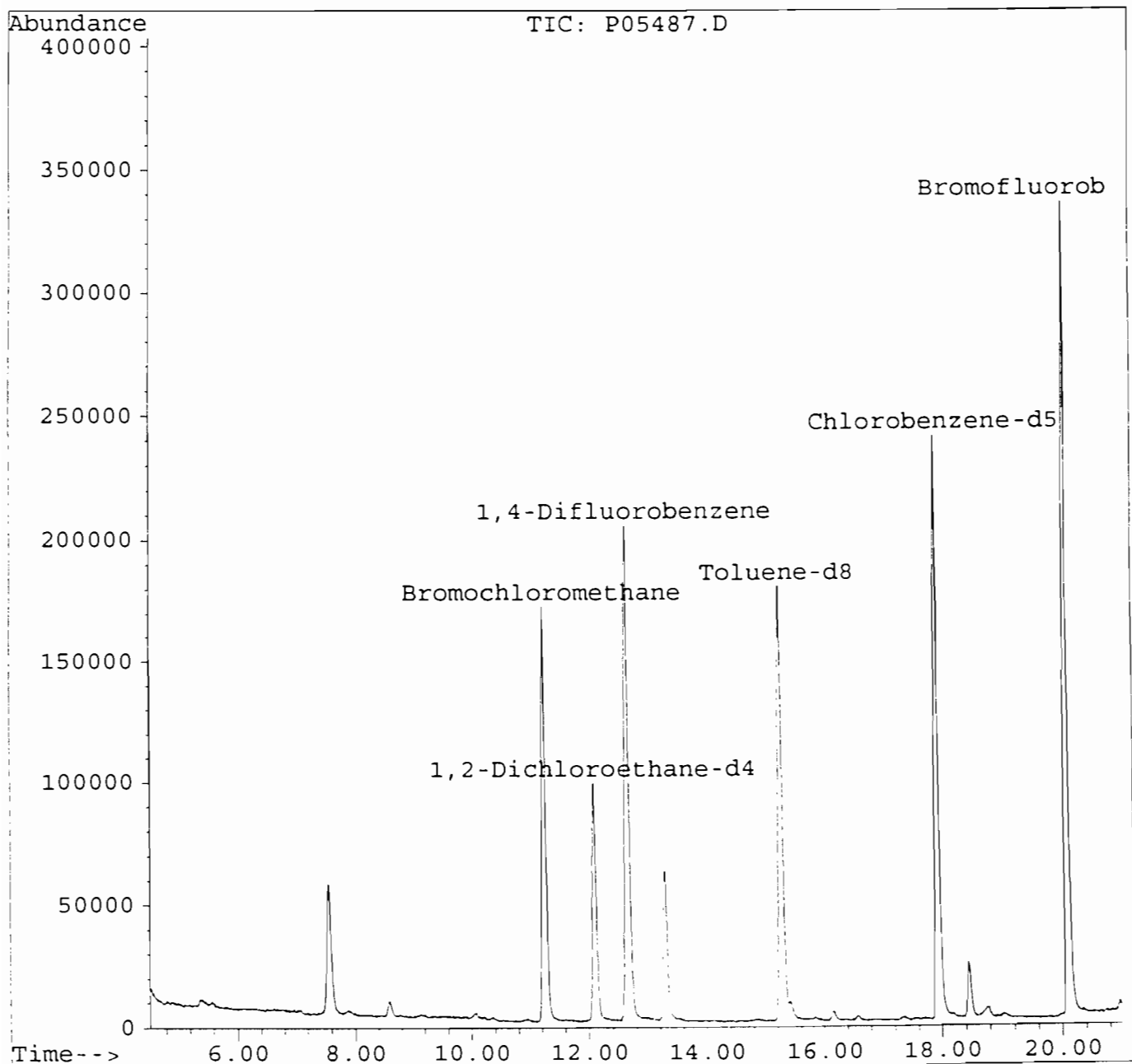
CAS NO.	COMPOUND	RT	EST. CONC.	Q
1. 000110-43-0	2-Heptanone	18.46	13	JN

Quantitation Report

Data File : S:\MS\HP#3\JAN97\P05487.D
Acq On : 27 Jan 97 5:15 pm
Sample : 9702029DL
Misc : B60215DL H5970-3 1/24/97 2.0G
Quant Time: Jan 27 17:40 1997

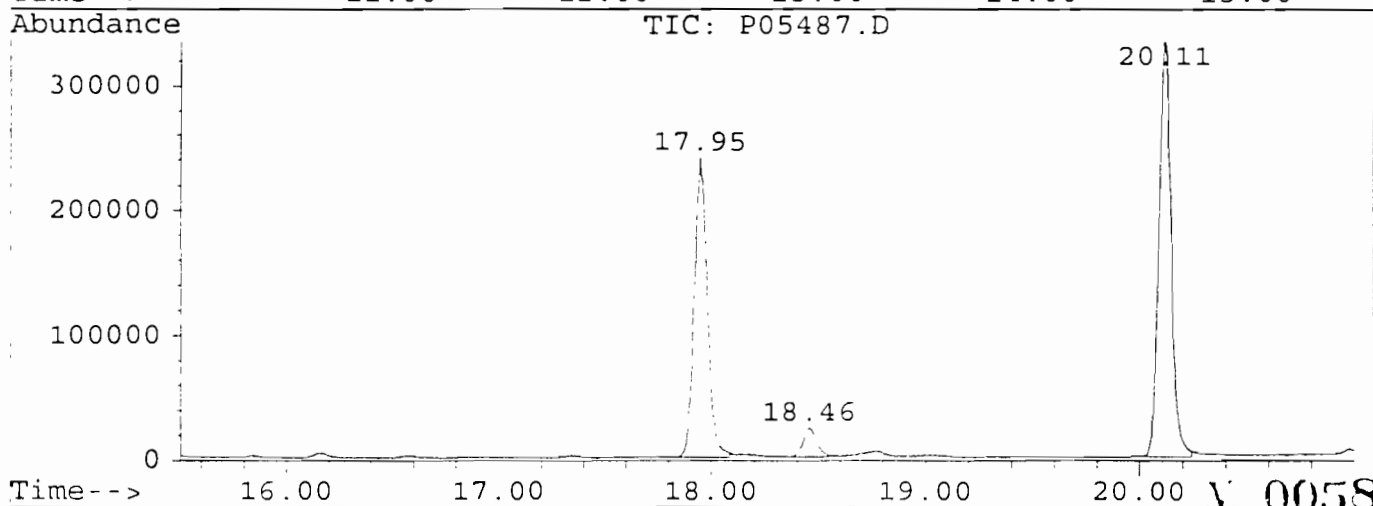
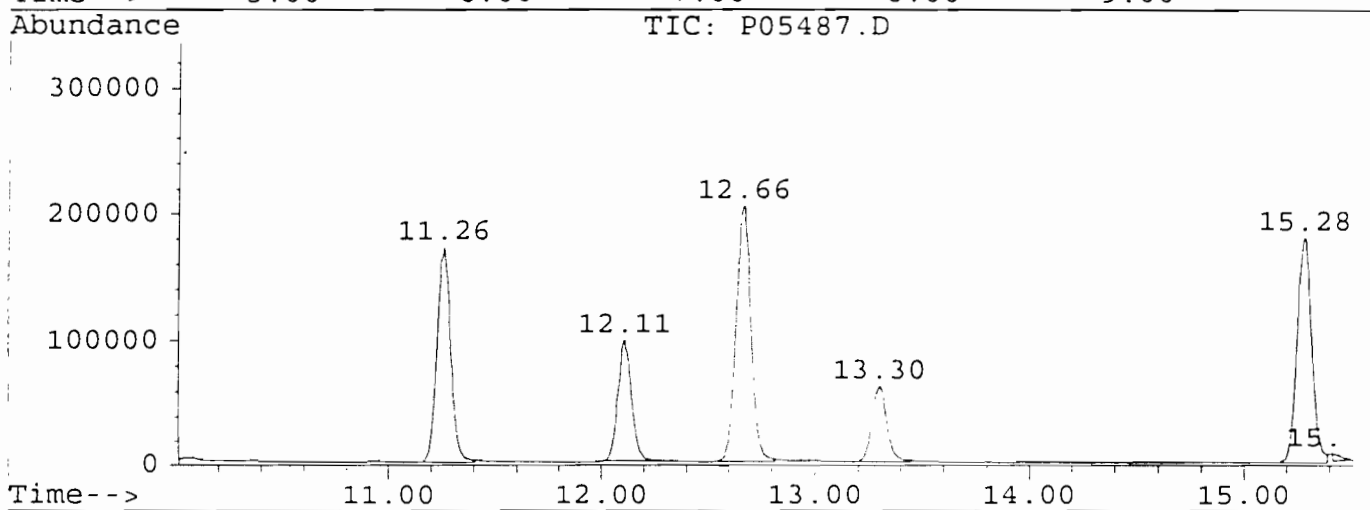
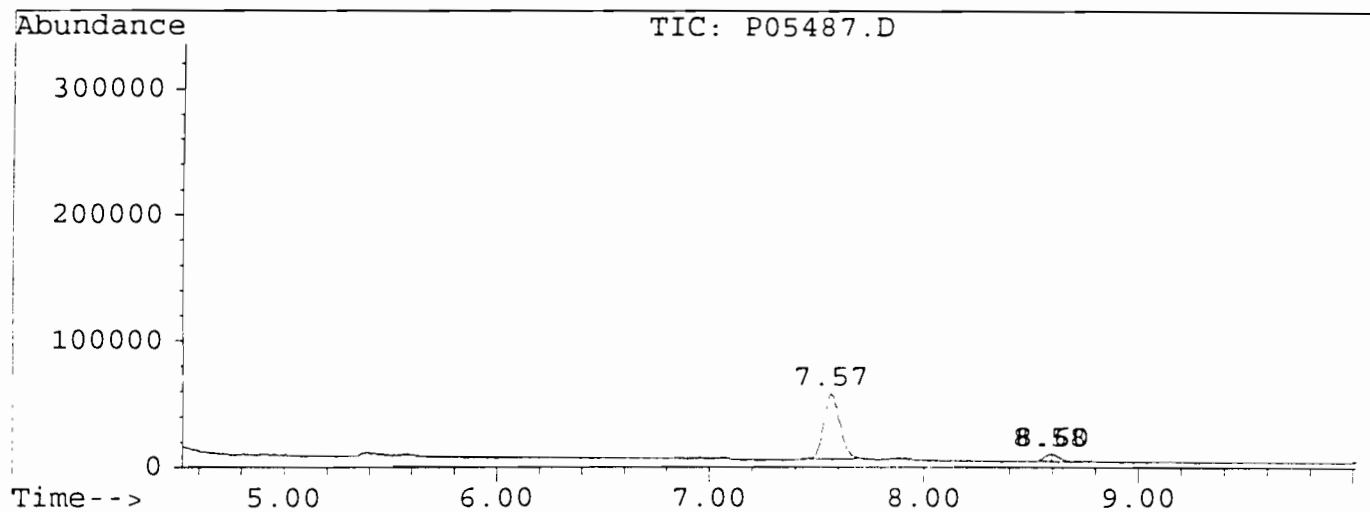
Vial: 4
Operator: GLENN
Inst : 5970 - In
Multiplr: 1.00

Method : S:\MS\HP#3\JAN97\CLPS.M
Title : VOA CLP WATER METHOD
Last Update : Wed Jan 15 13:53:47 1997
Response via : Single Level Calibration



V 0057

File : S:\MS\HP#3\JAN97\P05487.D
Operator : GLENN
Acquired : 27 Jan 97 17:15 using AcqMethod CLPS
Instrument : 5970 - In
Sample Name: 9702029DL
Misc Info : B60215DL H5970-3 1/24/97 2.0G
Vial Number: 4



N 0058

Quantitation Report

Data File : S:\MS\HP#3\JAN97\P05487.D
 Acq On : 27 Jan 97 17:15
 Sample : 9702029DL
 Misc : B60215DL H5970-3 1/24/97 2.0G
 Quant Time: Jan 27 17:40 1997

Vial: 4
 Operator: GLENN
 Inst : 5970 - In
 Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\CLPS.M
 Title : VOA CLP WATER METHOD
 Last Update : Mon Jan 27 15:49:29 1997
 Response via : Continuing Cal File: C:\HPCHEM\1\DATA\P05484.D

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	11.26	128	99827	50.00	UG/L	0.00
21) 1,4-Difluorobenzene	12.67	114	354212	50.00	UG/L	0.00
33) Chlorobenzene-d5	17.95	117	283989	50.00	UG/L	0.00
System Monitoring Compounds						%Recovery
18) 1,2-Dichloroethane-d4	12.11	65	166126	53.89	UG/L	107.78%
34) Toluene-d8	15.29	98	289407	49.60	UG/L	99.20%
43) Bromofluorobenzene	20.12	95	270534	49.61	UG/L	99.22%
Target Compounds						Qvalue
8) Acetone	7.57	43	182282	160.44	UG/L	87
9) Methylene Chloride	8.60	84	6697	1.96	UG/L	# 85
24) Trichloroethene	13.30	130	46287	10.86	UG/L	97
36) Toluene	15.42	91	9342	1.24	UG/L	97

(#) = qualifier out of range (m) = manual integration

Tentatively Identified Compound (LSC) summary

Operator ID: GLENN Date Acquired: 27 Jan 97 17:15

ata File: S:\MS\HP#3\JAN97\P05487.D

ame: 9702029DL

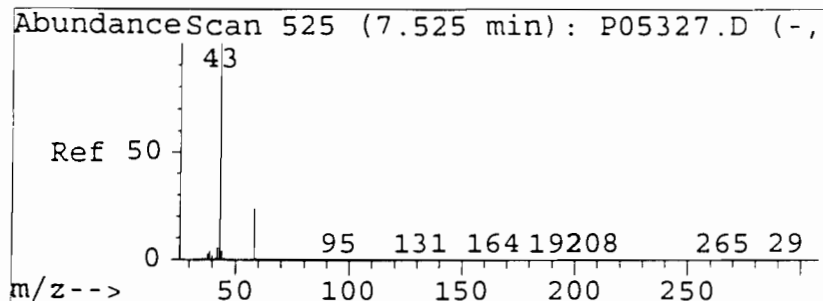
Misc: B60215DL H5970-3 1/24/97 2.0G

Method: CLPS

itle: VOA CLP WATER METHOD

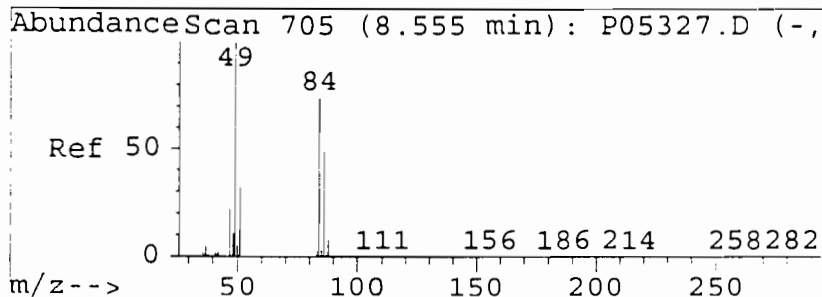
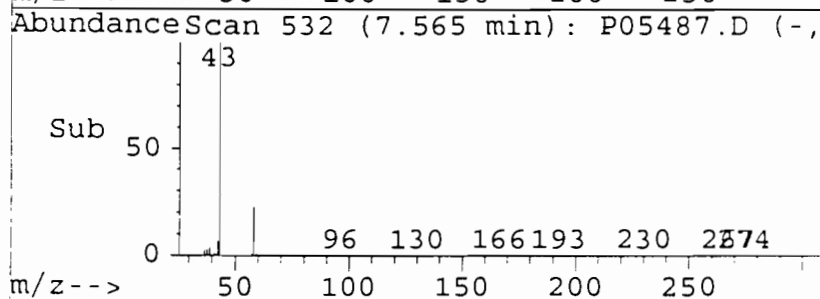
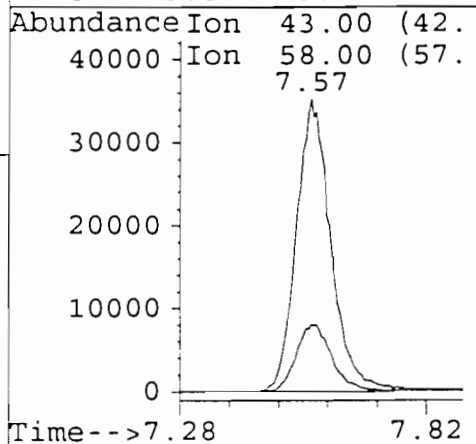
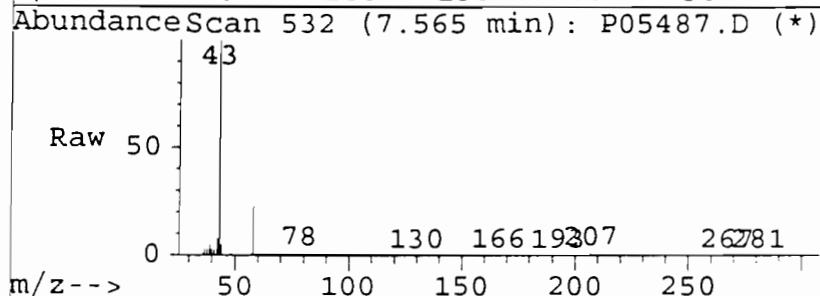
Library Searched: NBS75K.L

TIC Top Hit name	RT	EstConc	Units	Area	IntStd	ISRT	ISArea	ISConc
-Heptanone	18.46	5.0	UG/L	102857	ISTD03	17.95	1022013	50.0



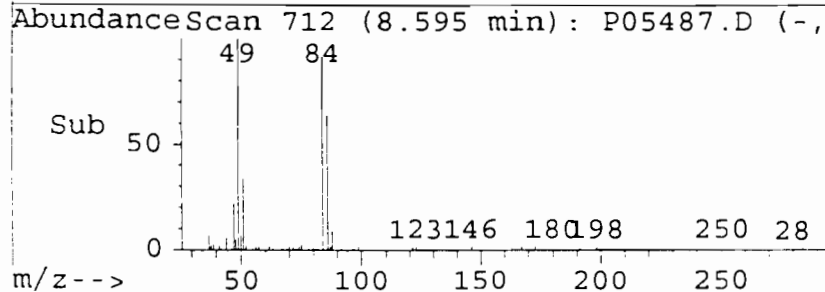
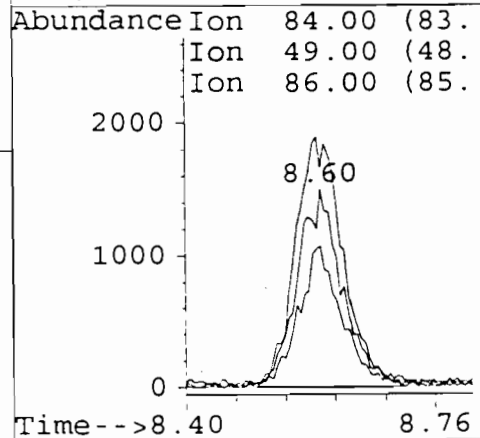
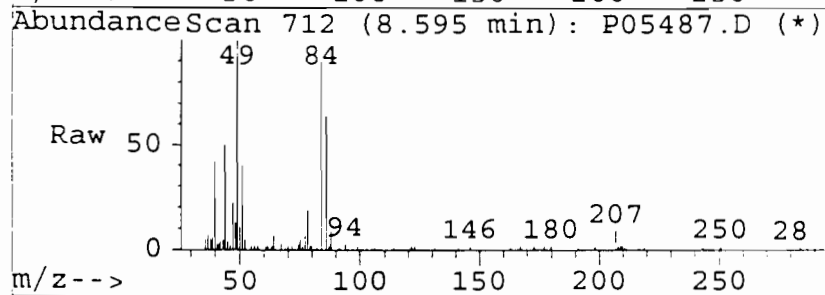
#8
Acetone
Concen: 160.44 UG/L
RT: 7.57 min Scan# 532
Delta R.T. -0.01 min
Lab File: P05487.D
Acq: 27 Jan 97 5:15 pm

Tgt Ion:	43	Resp:	182282
Ion	Ratio	Lower	Upper
43	100		
58	22.7	9.7	49.7
0	0.0	0.0	0.0
0	0.0	0.0	0.0

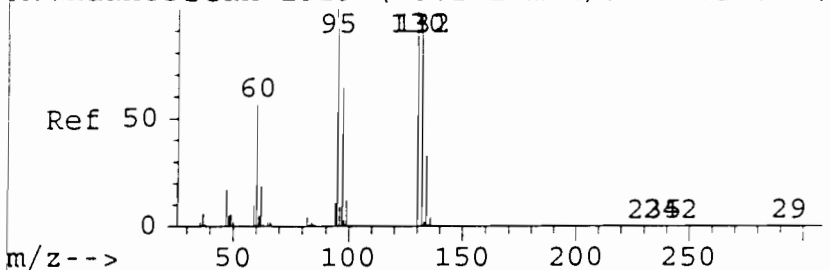


#9
Methylene Chloride
Concen: 1.96 UG/L
RT: 8.60 min Scan# 712
Delta R.T. 0.00 min
Lab File: P05487.D
Acq: 27 Jan 97 5:15 pm

Tgt Ion:	84	Resp:	6697
Ion	Ratio	Lower	Upper
84	100		
49	109.5	113.6	153.6#
86	71.6	48.1	88.1
0	0.0	0.0	0.0



AbundanceScan 1529 (13.271 min): P05327.D (



#24

Trichloroethene

Concen: 10.86 UG/L

RT: 13.30 min Scan# 1534

Delta R.T. 0.00 min

Lab File: P05487.D

Acq: 27 Jan 97 5:15 pm

Tgt Ion:130 Resp: 46287

Ion Ratio Lower Upper

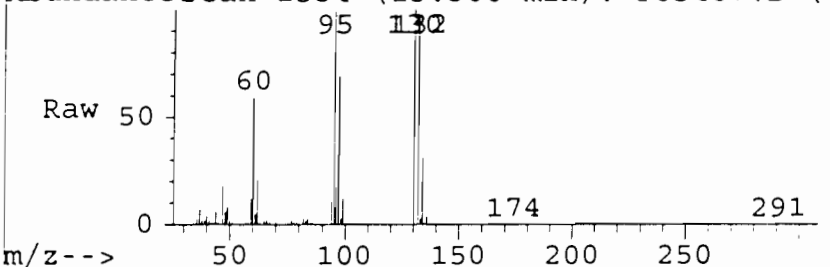
130 100

132 96.9 82.0 122.0

95 99.0 80.0 120.0

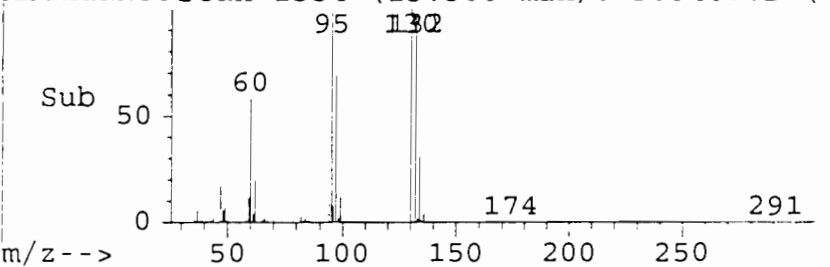
0 0.0 0.0 0.0

AbundanceScan 1534 (13.300 min): P05487.D (



m/z-->

AbundanceScan 1534 (13.300 min): P05487.D (

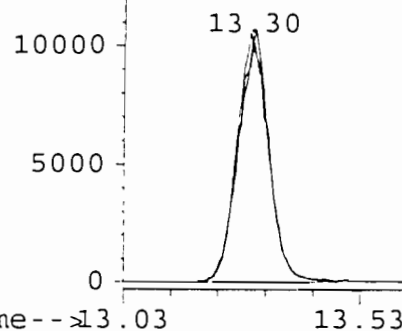


m/z-->

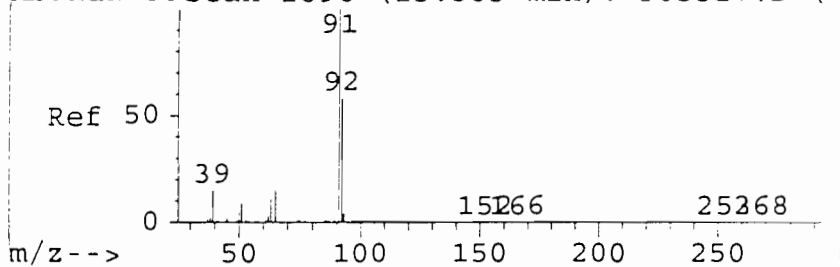
AbundanceIon 130.00 (129

Ion 132.00 (131

Ion 95.00 (94.

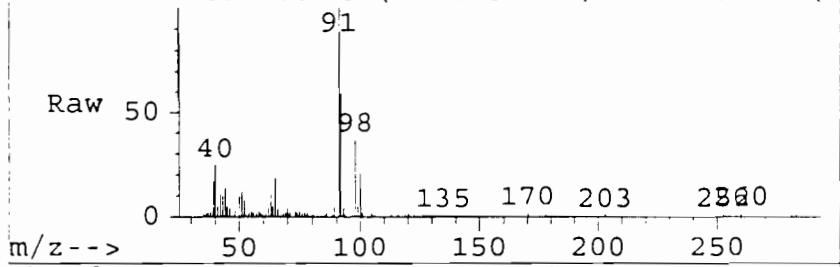


AbundanceScan 1898 (15.383 min): P05327.D (



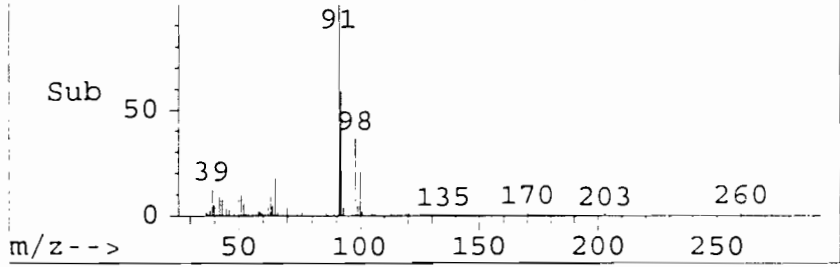
m/z-->

AbundanceScan 1904 (15.418 min): P05487.D (



m/z-->

AbundanceScan 1904 (15.418 min): P05487.D (



m/z-->

#36

Toluene

Concen: 1.24 UG/L

RT: 15.42 min Scan# 1904

Delta R.T. -0.01 min

Lab File: P05487.D

Acq: 27 Jan 97 5:15 pm

Tgt Ion:91 Resp: 9342

Ion Ratio Lower Upper

91 100

92 57.9 40.1 80.1

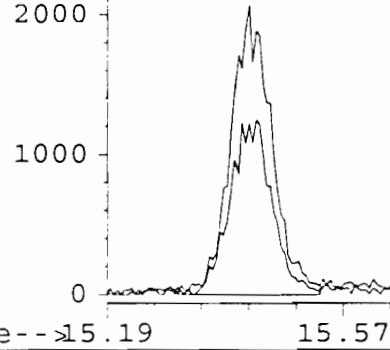
0 0.0 0.0 0.0

0 0.0 0.0 0.0

AbundanceIon 91.00 (90.

Ion 92.00 (91.

15.42



Sample Name: 9702029DL

Misc. Info: B60215DL H5970-3 1/24/97 2.0G

P05487.D CLPS.M Wed Feb 12 15:55:14 1997

JON

V 0062

Page 4

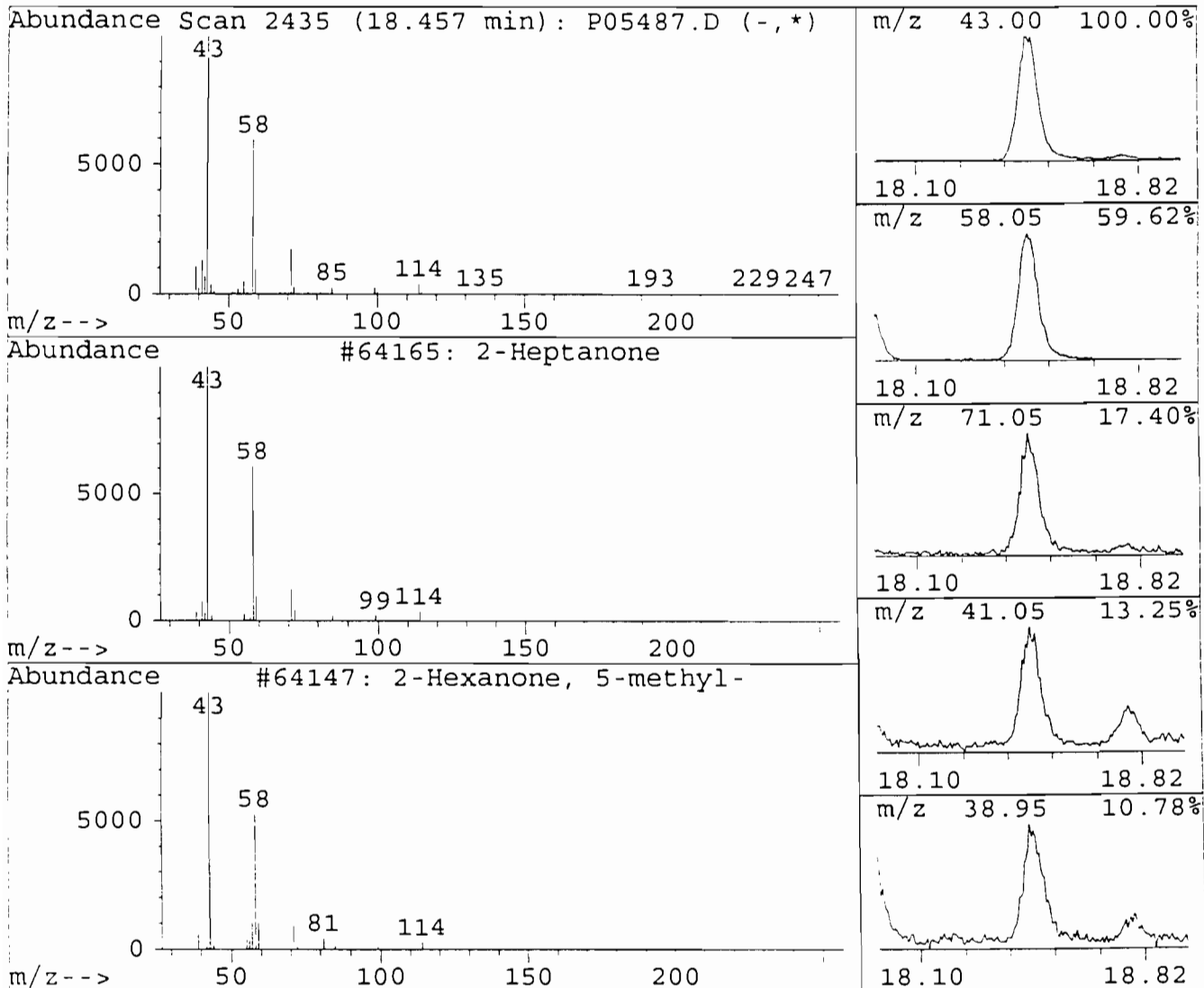
Library Search Compound Report

Data File : S:\MS\HP#3\JAN97\P05487.D
Acq On : 27 Jan 97 17:15
Sample : 9702029DL
Misc : B60215DL H5970-3 1/24/97 2.0G

Vial: 4
Operator: GLENN
Inst : 5970 - In
Multiplr: 1.00

Method : S:\MS\HP#3\JAN97\CLPS.M
Title : VOA CLP WATER METHOD
Library : C:\DATABASE\NBS75K.L

R.T.	Conc	Area	Relative to ISTD	R.T.	
18.46	5.03 UG/L	102857	Chlorobenzene-d5	17.95	
Hit# of 10	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Heptanone	114	C7H14O	000110-43-0	91
2	2-Hexanone, 5-methyl-	114	C7H14O	000110-12-3	90



V 0063

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B60215

Lab Name: H2M LABS INC. Contract: _____

Lab Code: _____ Case No.: RA096 SAS No.: _____ SDG No.: NDEC012

Matrix: (soil/water) SOIL Lab Sample ID: 9702029

Sample wt/vol: 5.0 (g/ml) G Lab File ID: P05479.D

Level: (low/med) LOW Date Received: 01/23/97

% Moisture: not dec. 12.8 Date Analyzed: 01/24/97

GC Column: RTX502. ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume _____ (uL) Soil Aliquot Volume: _____ (uL)

A6SP-02
(20-22)

CONCENTRATION UNITS:

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

74-87-3	Chloromethane	11	U
74-83-9	Bromomethane	11	U
75-01-4	Vinyl Chloride	11	U
75-00-3	Chloroethane	11	U
75-09-2	Methylene Chloride	11	U
67-64-1	Acetone	410	E
75-15-0	Carbon Disulfide	11	U
75-35-4	1,1-Dichloroethene	11	U
75-34-4	1,1-Dichloroethane	11	U
540-59-0	1,2-Dichloroethene (total)	11	U
67-66-3	Chloroform	11	U
107-06-2	1,2-Dichloroethane	11	U
78-93-3	2-Butanone	8	J
71-55-6	1,1,1-Trichloroethane	2	J
56-23-5	Carbon Tetrachloride	11	U
75-27-4	Bromodichloromethane	11	U
78-87-5	1,2-Dichloropropane	11	U
10061-01-5	cis-1,3-Dichloropropene	11	U
79-01-6	Trichloroethene	110	
71-43-2	Benzene	11	U
124-48-1	Dibromochloromethane	11	U
10061-02-6	trans-1,3-Dichloropropene	11	U
79-00-5	1,1,2-Trichloroethane	11	U
75-25-2	Bromoform	11	U
108-10-1	4-Methyl-2-Pentanone	11	U
591-78-6	2-Hexanone	2	J
127-18-4	Tetrachloroethene	11	U
79-34-5	1,1,2,2-Tetrachloroethane	11	U
108-88-3	Toluene	6	J
108-90-7	Chlorobenzene	11	U
100-41-4	Ethylbenzene	11	U
100-42-5	Styrene	11	U
1330-20-7	Xylene (total)	11	U

V 0064

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

B60215

Lab Name: H2M LABS INC. Contract: _____
Lab Code: _____ Case No.: RA096 SAS No.: _____ SDG No.: NDEC012
Matrix: (soil/water) SOIL Lab Sample ID: 9702029
Sample wt/vol: 5.0 (g/ml) G Lab File ID: P05479.D
Level: (low/med) LOW Date Received: 01/23/97
% Moisture: not dec. 12.8 Date Analyzed: 01/24/97
GC Column: RTX502 ID: 0.53 (mm) Dilution Factor: 1.0
Soil Extract Volume 1 (uL) Soil Aliquot Volume: 1 (uL)

CONCENTRATION UNITS:

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

Number TICs found: 1

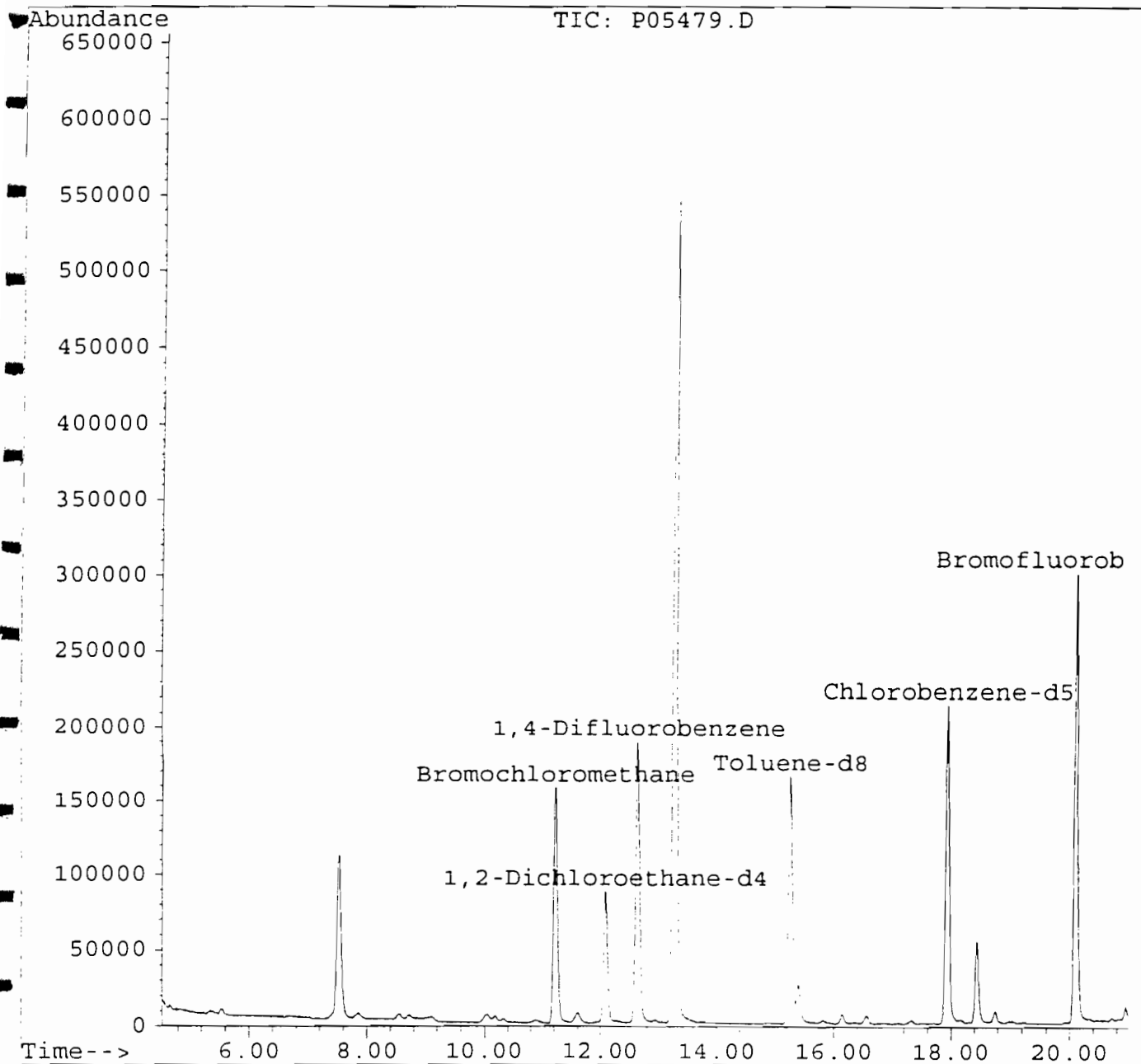
CAS NO.	COMPOUND	RT	EST. CONC.	Q
1. 000110-43-0	2-Heptanone	18.43	15	JN

Quantitation Report

Data File : S:\MS\HP#3\JAN97\P05479.D
Acq On : 24 Jan 97 7:50 pm
Sample : 9702029
Misc : B60215 H5970-3 1/24/97 5.0G
Quant Time: Jan 24 20:16 1997

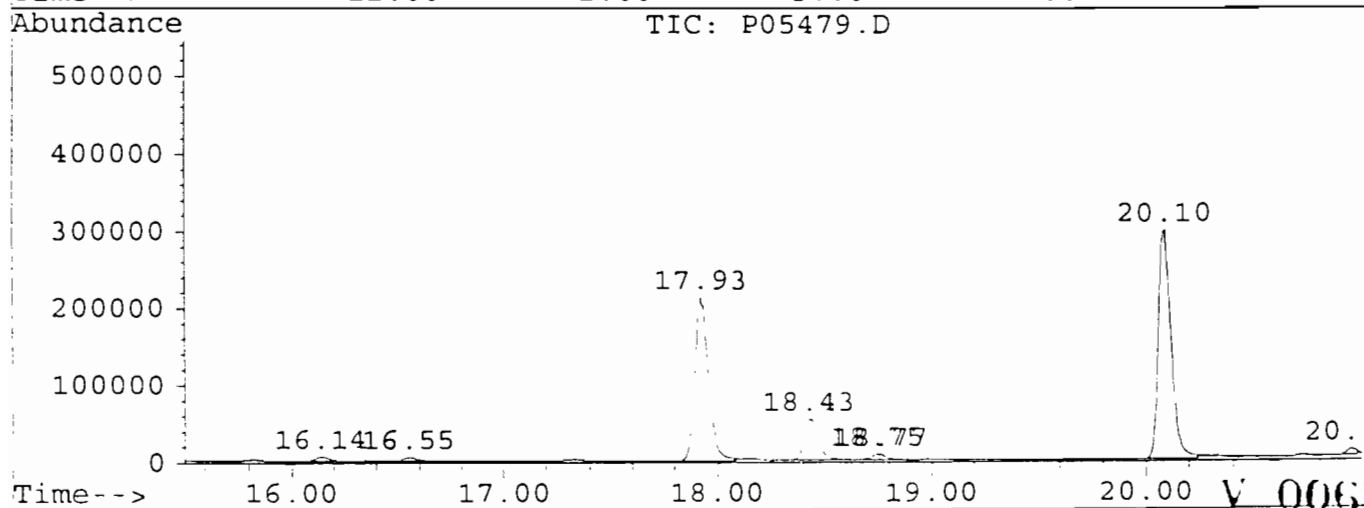
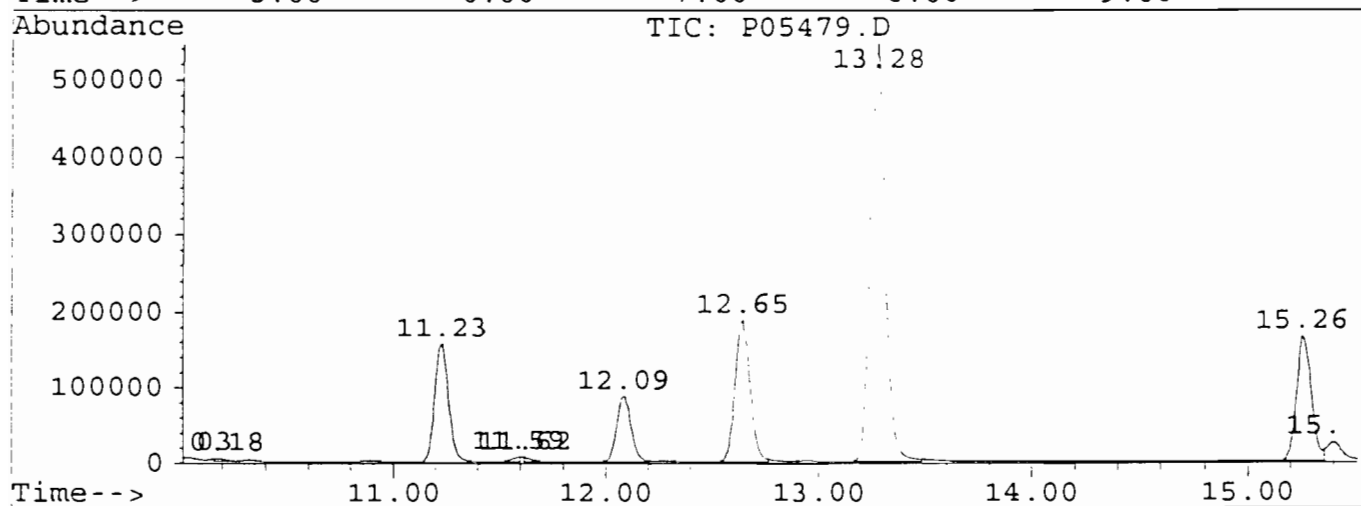
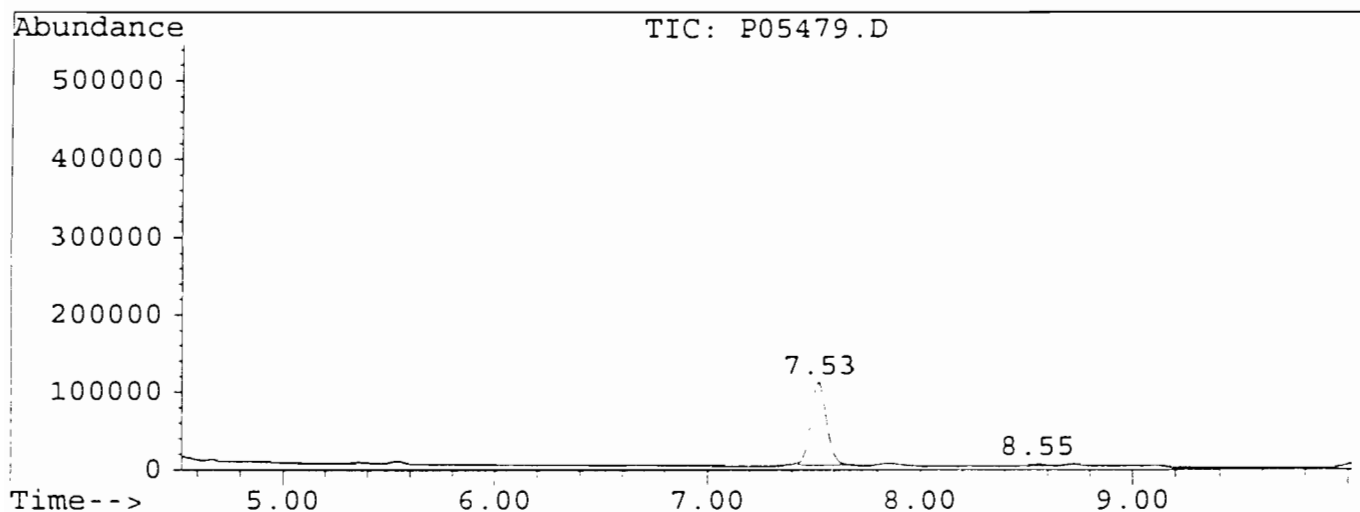
Vial: 3
Operator: GLENN
Inst : 5970 - In
Multiplr: 1.00

Method : S:\MS\HP#3\JAN97\CLPS.M
Title : VOA CLP WATER METHOD
Last Update : Wed Jan 15 13:53:47 1997
Response via : Single Level Calibration



V 0066

File : S:\MS\HP#3\JAN97\P05479.D
Operator : GLENN
Acquired : 24 Jan 97 19:50 using AcqMethod CLPS
Instrument : 5970 - In
Sample Name: 9702029
Misc Info : B60215 H5970-3 1/24/97 5.0G
Vial Number: 3



Quantitation Report

Data File : S:\MS\HP#3\JAN97\P05479.D
 Acq On : 24 Jan 97 19:50
 Sample : 9702029
 Misc : B60215 H5970-3 1/24/97 5.0G
 Quant Time: Jan 24 20:16 1997

Vial: 3
 Operator: GLENN
 Inst : 5970 - In
 Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\CLPS.M
 Title : VOA CLP WATER METHOD
 Last Update : Fri Jan 24 10:47:18 1997
 Response via : Continuing Cal File: C:\HPCHEM\1\DATA\P05461.D

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	11.23	128	95160	50.00	UG/L	-0.04
21) 1,4-Difluorobenzene	12.65	114	325463	50.00	UG/L	-0.04
33) Chlorobenzene-d5	17.93	117	252112	50.00	UG/L	-0.03
System Monitoring Compounds						%Recovery
18) 1,2-Dichloroethane-d4	12.09	65	155599	54.26	UG/L	108.52%
34) Toluene-d8	15.26	98	262500	50.21	UG/L	100.43%
43) Bromofluorobenzene	20.10	95	240144	50.29	UG/L	100.58%
Target Compounds						Qvalue
8) Acetone	7.53	43	372039	360.78	UG/L	90
20) 2-Butanone	10.32	43	8385	7.35	UG/L	91
22) 1,1,1-Trichloroethane	11.62	97	12356	1.78	UG/L	91
24) Trichloroethene	13.28	130	391559	96.17	UG/L	95
36) Toluene	15.41	91	38817	5.58	UG/L	98
38) 2-Hexanone	15.82	43	2586	1.63	UG/L #	63

(#) = qualifier out of range (m) = manual integration

Library Search Compound Report

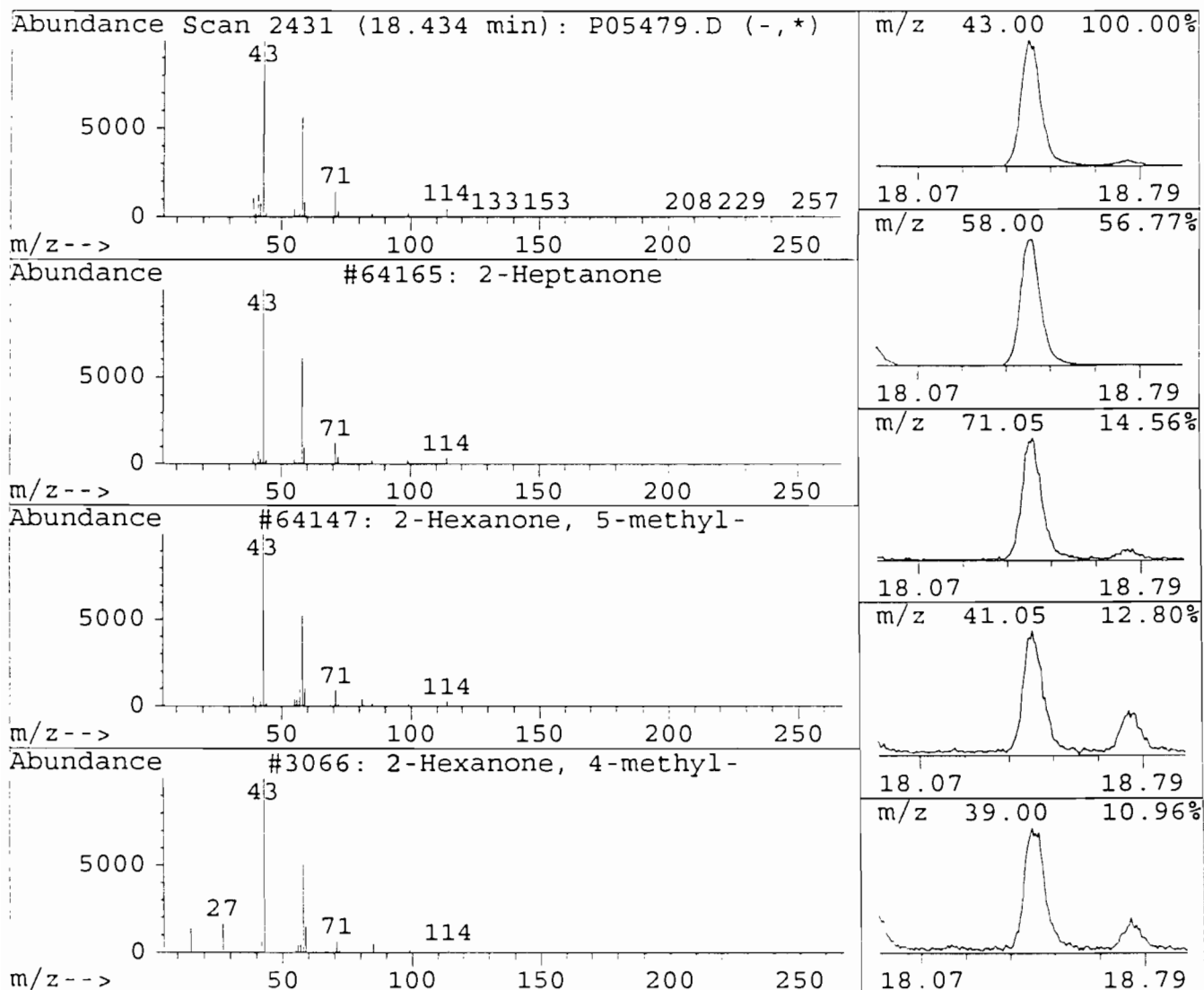
Data File : S:\MS\HP#3\JAN97\P05479.D
Acq On : 24 Jan 97 19:50
Sample : 9702029
Misc : B60215 H5970-3 1/24/97 5.0G

Vial: 3
Operator: GLENN
Inst : 5970 - In
Multiplr: 1.00

Method : S:\MS\HP#3\JAN97\CLPS.M
Title : VOA CLP WATER METHOD
Library : C:\DATABASE\NBS75K.L

R.T.	Conc	Area	Relative to ISTD	R.T.
18.43	12.91 UG/L	240502	Chlorobenzene-d5	17.93

Hit# of 10	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Heptanone	114	C7H14O	000110-43-0	91
2	2-Hexanone, 5-methyl-	114	C7H14O	000110-12-3	86
3	2-Hexanone, 4-methyl-	114	C7H14O	000105-42-0	64



V 0073

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B60216

Lab Name: H2M LABS INC. Contract: _____
 Lab Code: _____ Case No.: RA096 SAS No.: _____ SDG No.: NDEC012
 Matrix: (soil/water) SOIL Lab Sample ID: 9702030
 Sample wt/vol: 5.0 (g/ml) G Lab File ID: P05480.D
 Level: (low/med) LOW Date Received: 01/23/97
 % Moisture: not dec. 4.7 Date Analyzed: 01/24/97
 GC Column: RTX502 ID: 0.53 (mm) Dilution Factor: 1.0
 Soil Extract Volume _____ (uL) Soil Aliquot Volume: _____ (uL)

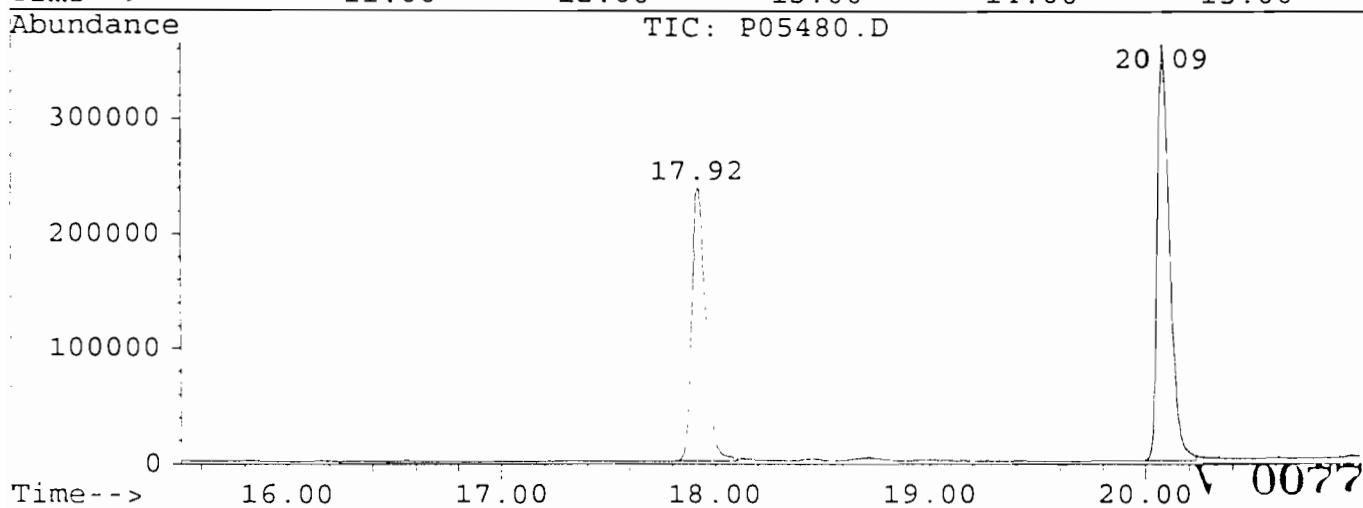
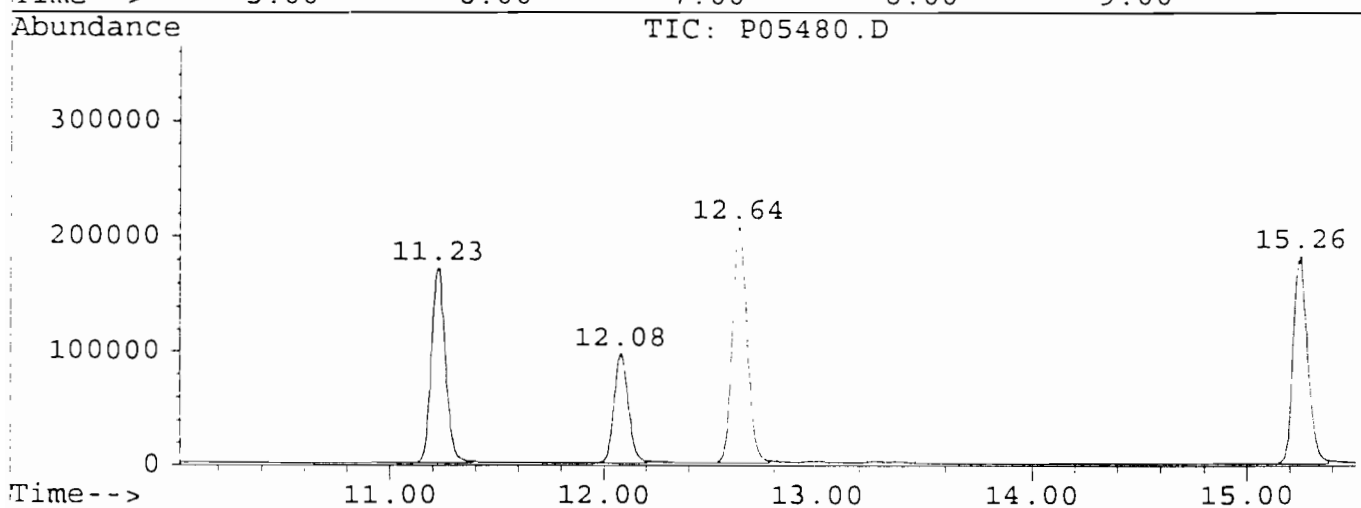
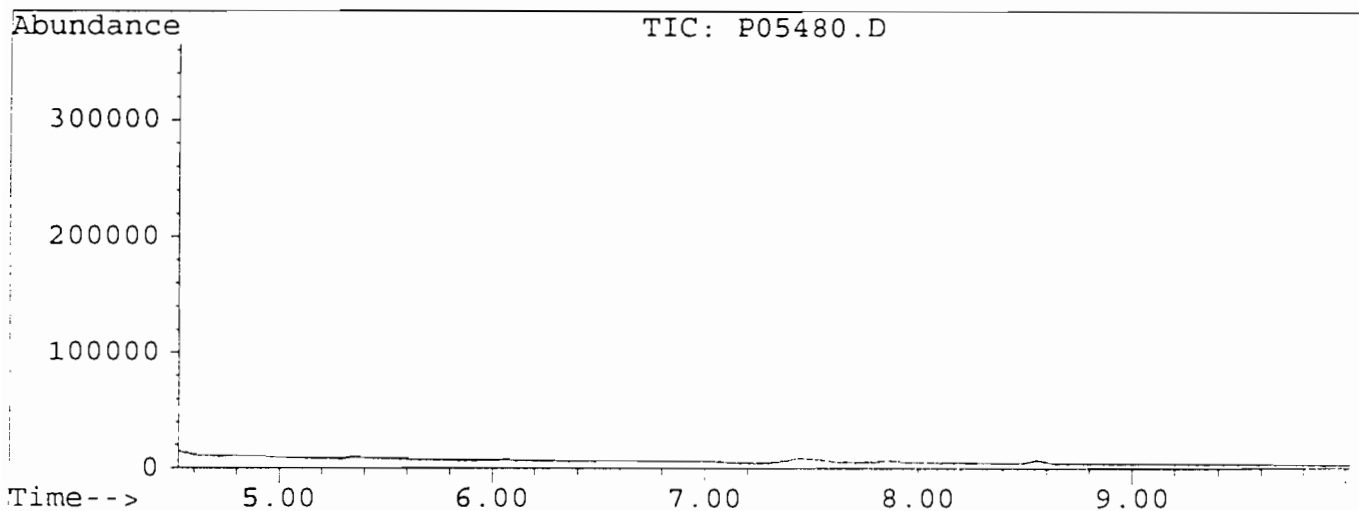
AGSP-02
(15-27')

CONCENTRATION UNITS:

CAS NO. COMPOUND (ug/L or ug/Kg) UG/KG 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	10	U
67-64-1	Acetone	8	J
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	10	U
75-34-4	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	10	U
71-43-2	Benzene	10	U
124-48-1	Dibromochloromethane	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
79-00-5	1,1,2-Trichloroethane	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Xylene (total)	10	U

File : S:\MS\HP#3\JAN97\P05480.D
Operator : GLENN
Acquired : 24 Jan 97 20:21 using AcqMethod CLPS
Instrument : 5970 - In
Sample Name: 9702030
Misc Info : B60216 H5970-3 1/24/97 5.0G
Vial Number: 4



Quantitation Report

Data File : S:\MS\HP#3\JAN97\P05480.D
 Acq On : 24 Jan 97 20:21
 Sample : 9702030
 Misc : B60216 H5970-3 1/24/97 5.0G
 Quant Time: Jan 24 20:47 1997

Vial: 4
 Operator: GLENN
 Inst : 5970 - In
 Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\CLPS.M
 Title : VOA CLP WATER METHOD
 Last Update : Fri Jan 24 10:47:18 1997
 Response via : Continuing Cal File: C:\HPCHEM\1\DATA\P05461.D

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	11.23	128	101595	50.00	UG/L	-0.04
21) 1,4-Difluorobenzene	12.64	114	356095	50.00	UG/L	-0.05
33) Chlorobenzene-d5	17.94	117	288427	50.00	UG/L	-0.02
System Monitoring Compounds						%Recovery
18) 1,2-Dichloroethane-d4	12.08	65	172416	56.32	UG/L	112.63%
34) Toluene-d8	15.26	98	290115	48.51	UG/L	97.02%
43) Bromofluorobenzene	20.09	95	286163	52.38	UG/L	104.77%
Target Compounds						Qvalue
8) Acetone	7.53	43	8790	7.98	UG/L	80

~~V-0075~~

Library Search Compound Report

Data File : S:\MS\HP#3\JAN97\P05480.D
Acq On : 24 Jan 97 20:21
Sample : 9702030
Misc : B60216 H5970-3 1/24/97 5.0G

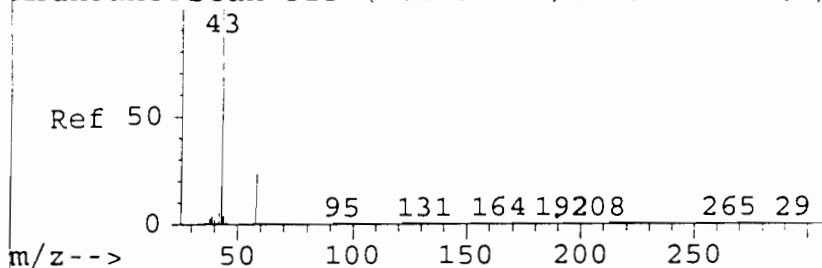
Vial: 4
Operator: GLENN
Inst : 5970 - In
Multiplr: 1.00

Method : S:\MS\HP#3\JAN97\CLPS.M
Title : VOA CLP WATER METHOD
Library : NBS75K.L

No Library Search Compounds Detected

V 0079

AbundanceScan 525 (7.525 min): P05327.D (-,



#8

Acetone

Concen: 7.98 UG/L

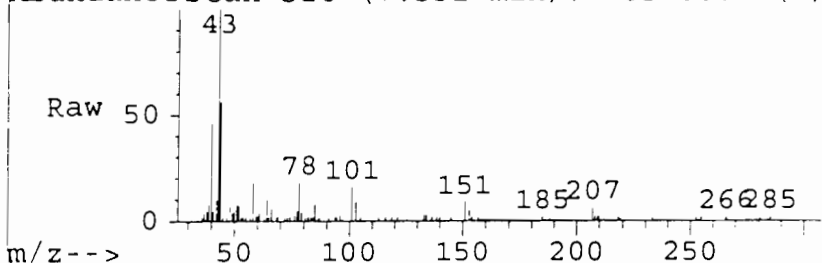
RT: 7.53 min Scan# 526

Delta R.T. -0.06 min

Lab File: P05480.D

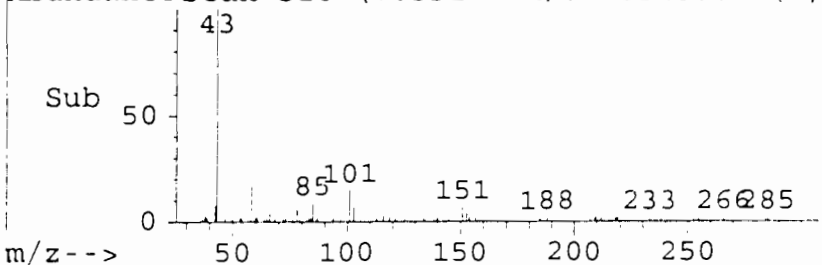
Acq: 24 Jan 97 8:21 pm

AbundanceScan 526 (7.531 min): P05480.D (*)

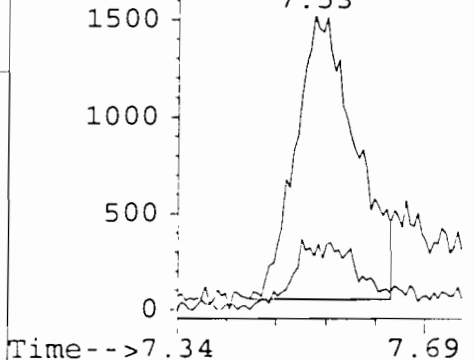


Tgt Ion:43	Resp:	8790
Ion	Ratio	Lower Upper
43	100	
58	19.1	9.7 49.7
0	0.0	0.0 0.0
0	0.0	0.0 0.0

AbundanceScan 526 (7.531 min): P05480.D (-,



AbundanceIon 43.00 (42.
Ion 58.00 (57.
7.53



Sample Name: 9702030

Misc. Info: B60216 H5970-3 1/24/97 5.0G

P05480.D CLPS.M

Wed Feb 12 15:51:24 1997

JON

V 0080

Page 3

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B60217

Lab Name: H2M LABS INC. Contract: _____
 Lab Code: _____ Case No.: RA096 SAS No.: _____ SDG No.: NDEC012
 Matrix: (soil/water) SOIL Lab Sample ID: 9702031
 Sample wt/vol: 5.0 (g/ml) G Lab File ID: P05481.D
 Level: (low/med) LOW Date Received: 01/23/97
 % Moisture: not dec. 4.8 Date Analyzed: 01/24/97
 GC Column: RTX502. ID: 0.53 (mm) Dilution Factor: 1.0
 Soil Extract Volume _____ (uL) Soil Aliquot Volume: _____ (uL)

AGSP-02
(30'-32')

CONCENTRATION UNITS:

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

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

B60217

Lab Name: H2M LABS INC. Contract: _____
Lab Code: _____ Case No.: RA096 SAS No.: _____ SDG No.: NDEC012
Matrix: (soil/water) SOIL Lab Sample ID: 9702031
Sample wt/vol: 5.0 (g/ml) G Lab File ID: P05481.D
Level: (low/med) LOW Date Received: 01/23/97
% Moisture: not dec. 4.8 Date Analyzed: 01/24/97
GC Column: RTX502 ID: 0.53 (mm) Dilution Factor: 1.0
Soil Extract Volume 1 (uL) Soil Aliquot Volume: 1 (uL)

CONCENTRATION UNITS:

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

Number TICs found: 0

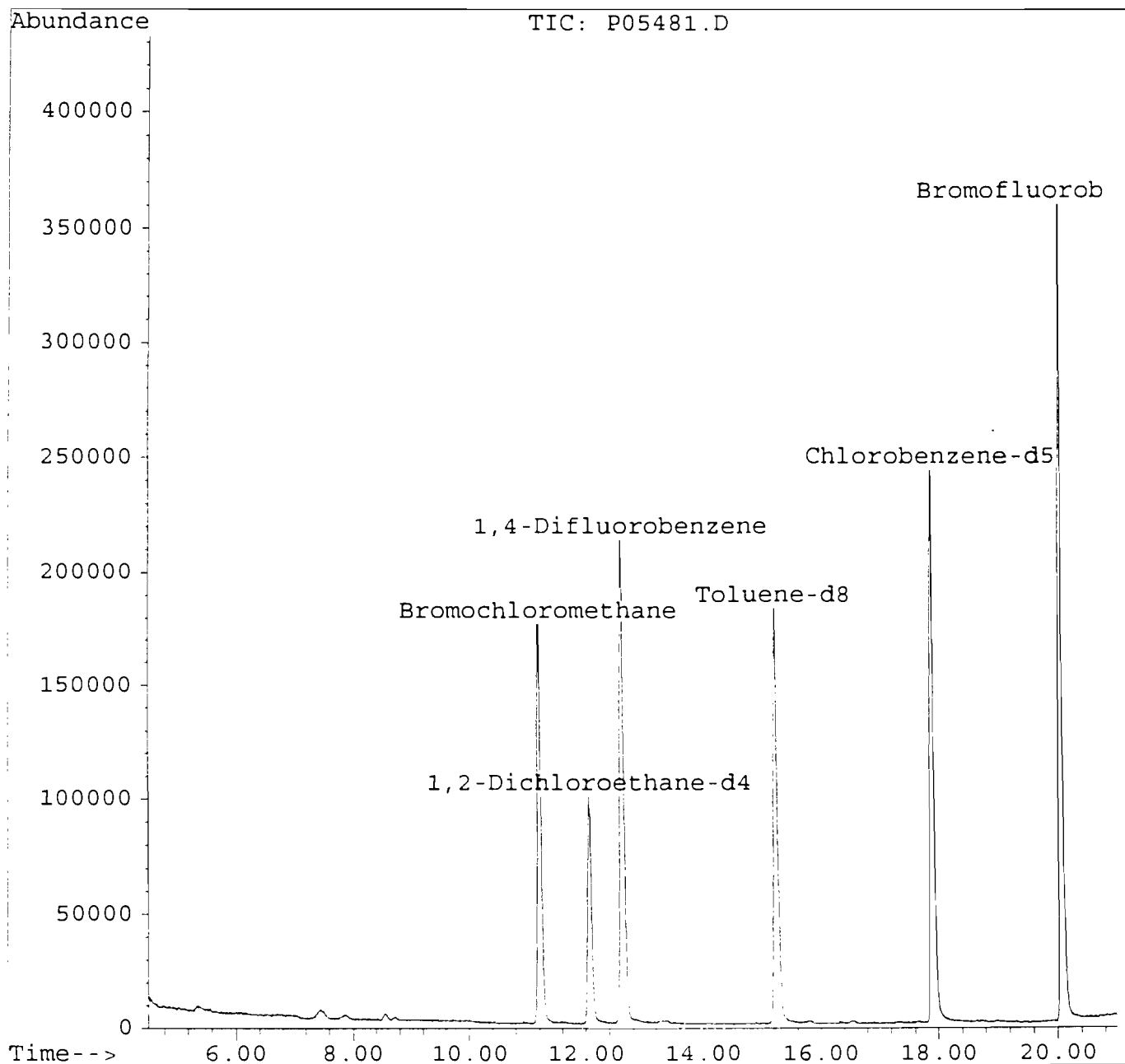
CAS NO.	COMPOUND	RT	EST. CONC.	Q

Quantitation Report

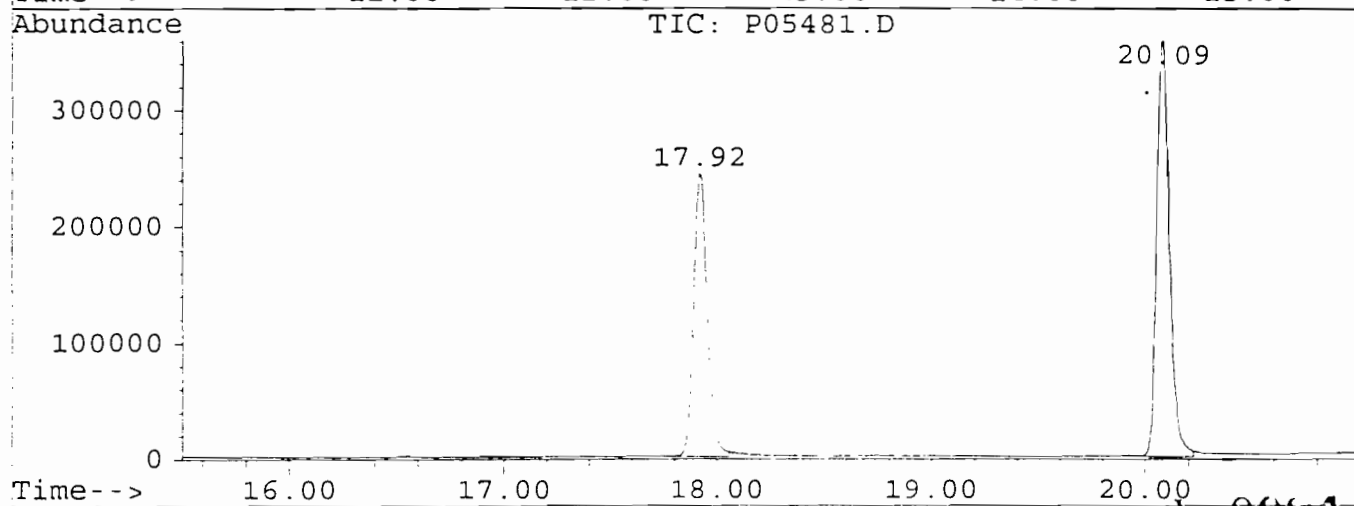
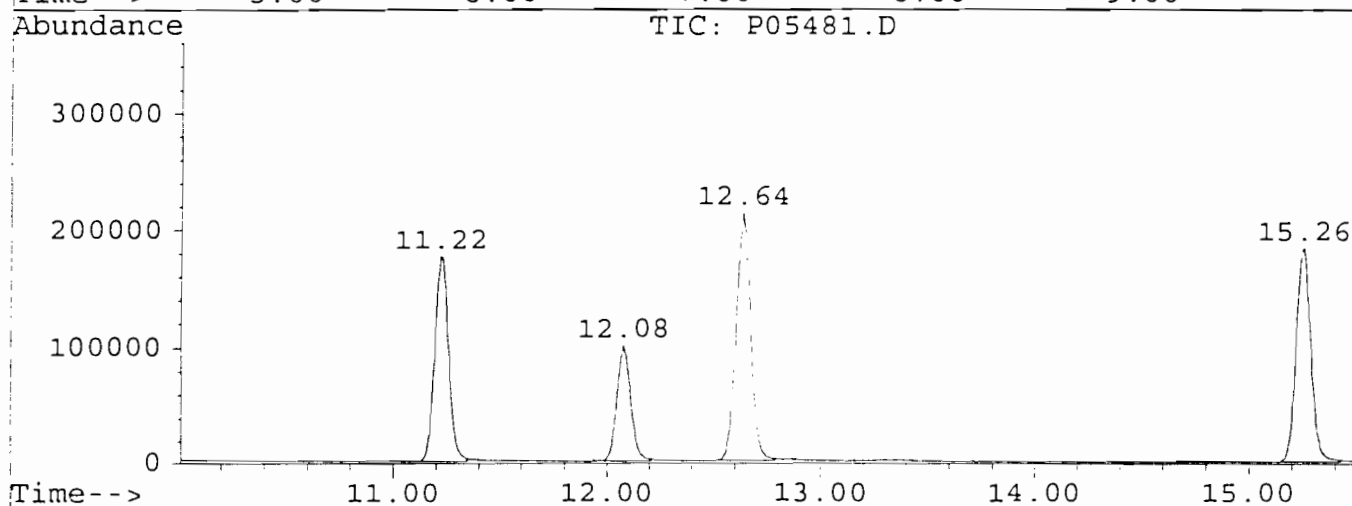
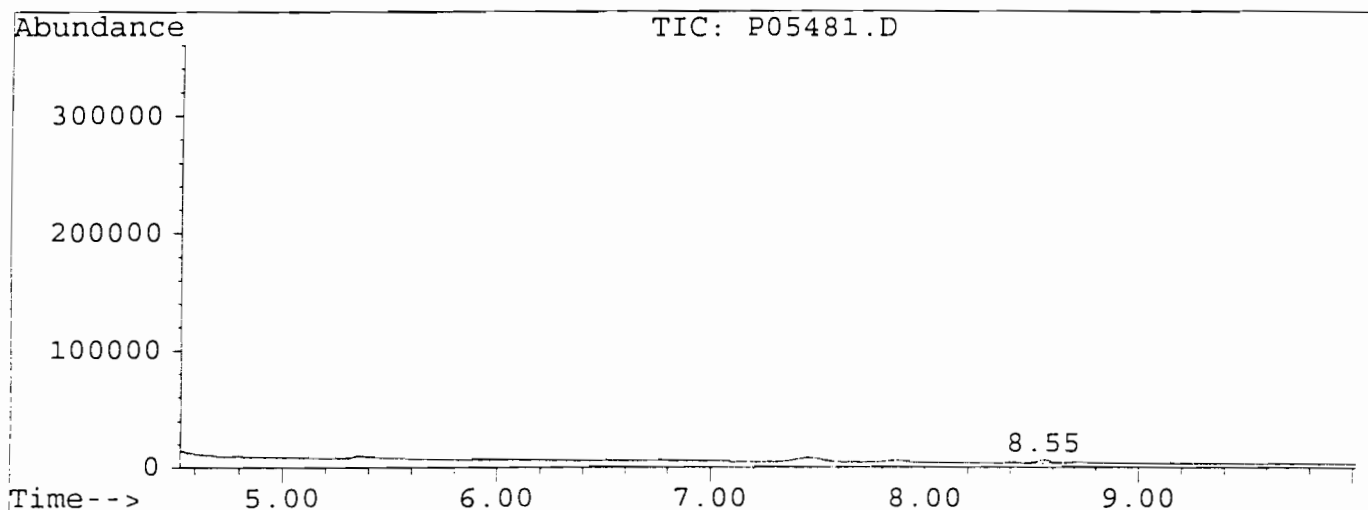
Data File : S:\MS\HP#3\JAN97\P05481.D
Acq On : 24 Jan 97 8:52 pm
Sample : 9702031
Misc : B60217 H5970-3 1/24/97 5.0G
Quant Time: Jan 24 21:18 1997

Vial: 5
Operator: GLENN
Inst : 5970 - In
Multiplr: 1.00

Method : S:\MS\HP#3\JAN97\CLPS.M
Title : VOA CLP WATER METHOD
Last Update : Wed Jan 15 13:53:47 1997
Response via : Single Level Calibration



File : S:\MS\HP#3\JAN97\P05481.D
Operator : GLENN
Acquired : 24 Jan 97 20:52 using AcqMethod CLPS
Instrument : 5970 - In
Sample Name: 9702031
Misc Info : B60217 H5970-3 1/24/97 5.0G
Vial Number: 5



0084

Quantitation Report

Data File : S:\MS\HP#3\JAN97\P05481.D
 Acq On : 24 Jan 97 20:52
 Sample : 9702031
 Misc : B60217 H5970-3 1/24/97 5.0G
 Quant Time: Jan 24 21:18 1997

Vial: 5
 Operator: GLENN
 Inst : 5970 - In
 Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\CLPS.M
 Title : VOA CLP WATER METHOD
 Last Update : Fri Jan 24 10:47:18 1997
 Response via : Continuing Cal File: C:\HPCHEM\1\DATA\P05461.D

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	11.23	128	104319	50.00	UG/L	-0.04
21) 1,4-Difluorobenzene	12.64	114	359980	50.00	UG/L	-0.05
33) Chlorobenzene-d5	17.92	117	293041	50.00	UG/L	-0.04
System Monitoring Compounds						%Recovery
18) 1,2-Dichloroethane-d4	12.08	65	174330	55.46	UG/L	110.91%
34) Toluene-d8	15.25	98	290303	47.78	UG/L	95.55%
43) Bromofluorobenzene	20.09	95	287084	51.72	UG/L	103.45%
Target Compounds						Qvalue
8) Acetone	7.54	43	3241	2.87	UG/L	76

(#) = qualifier out of range (m) = manual integration

Library Search Compound Report

Data File : S:\MS\HP#3\JAN97\P05481.D

Acq On : 24 Jan 97 20:52

Sample : 9702031

Misc : B60217 H5970-3 1/24/97 5.0G

Vial: 5

Operator: GLENN

Inst : 5970 - In

Multiplr: 1.00

Method : S:\MS\HP#3\JAN97\CLPS.M

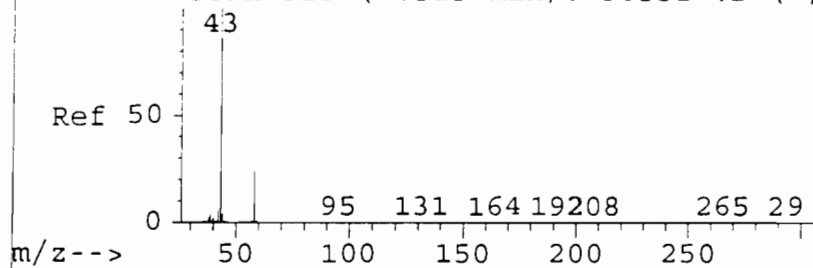
Title : VOA CLP WATER METHOD

Library : NBS75K.L

No Library Search Compounds Detected

V C086

AbundanceScan 525 (7.525 min): P05327.D (-,



#8

Acetone

Concen: 2.87 UG/L

RT: 7.54 min Scan# 526

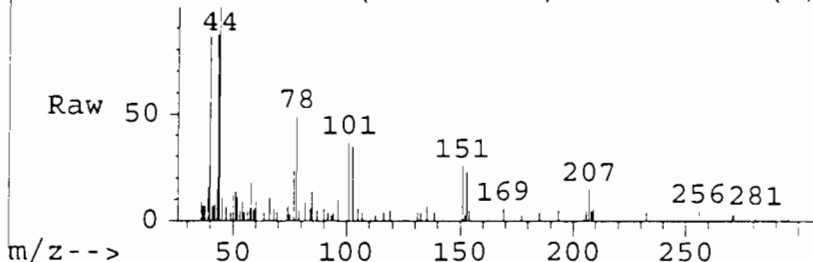
Delta R.T. -0.06 min

Lab File: P05481.D

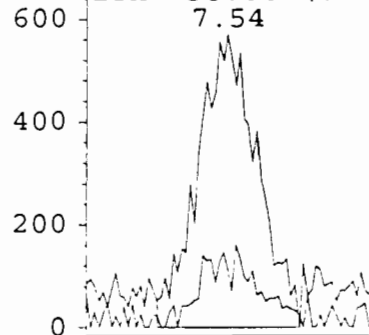
Acq: 24 Jan 97 8:52 pm

Tgt Ion:	43	Resp:	3241
Ion	Ratio	Lower	Upper
43	100		
58	16.8	9.7	49.7
0	0.0	0.0	0.0
0	0.0	0.0	0.0

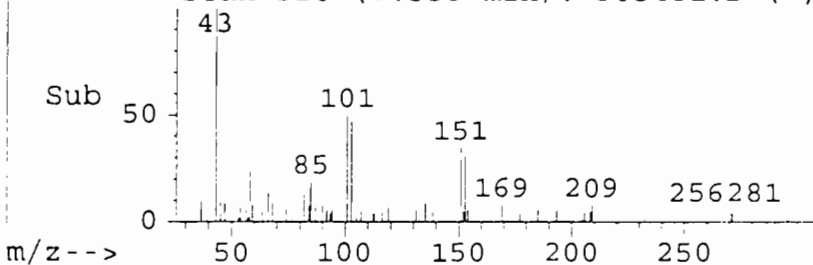
AbundanceScan 526 (7.535 min): P05481.D (*)



AbundanceIon 43.00 (42.
Ion 58.00 (57.
7.54



AbundanceScan 526 (7.535 min): P05481.D (-,



Time-->7.34 7.68

Sample Name: 9702031

Misc. Info: B60217 H5970-3 1/24/97 5.0G

P05481.D CLPS.M Wed Feb 12 15:52:16 1997

JON

V 0087

Page 3

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B60218

AGSP-02

Lab Name: H2M LABS INC. Contract: _____
 Lab Code: _____ Case No.: RA096 SAS No.: _____ SDG No.: NDEC012
 Matrix: (soil/water) SOIL Lab Sample ID: 9702032
 Sample wt/vol: 5.0 (g/ml) G Lab File ID: P05488.D
 Level: (low/med) LOW Date Received: 01/23/97
 % Moisture: not dec. 4 Date Analyzed: 01/27/97
 GC Column: RTX502. ID: 0.53 (mm) Dilution Factor: 1.0
 Soil Extract Volume _____ (uL) Soil Aliquot Volume: _____ (uL)

(35'-37')

CONCENTRATION UNITS:

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

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

B60218

Lab Name: H2M LABS INC. Contract: _____
Lab Code: _____ Case No.: RA096 SAS No.: _____ SDG No.: NDEC012
Matrix: (soil/water) SOIL Lab Sample ID: 9702032
Sample wt/vol: 5.0 (g/ml) G Lab File ID: P05488.D
Level: (low/med) LOW Date Received: 01/23/97
% Moisture: not dec. 4 Date Analyzed: 01/27/97
GC Column: RTX502 ID: 0.53 (mm) Dilution Factor: 1.0
Soil Extract Volume 1 (uL) Soil Aliquot Volume: 1 (uL)

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

Handwritten: 2/22/97

Number TICs found: 0

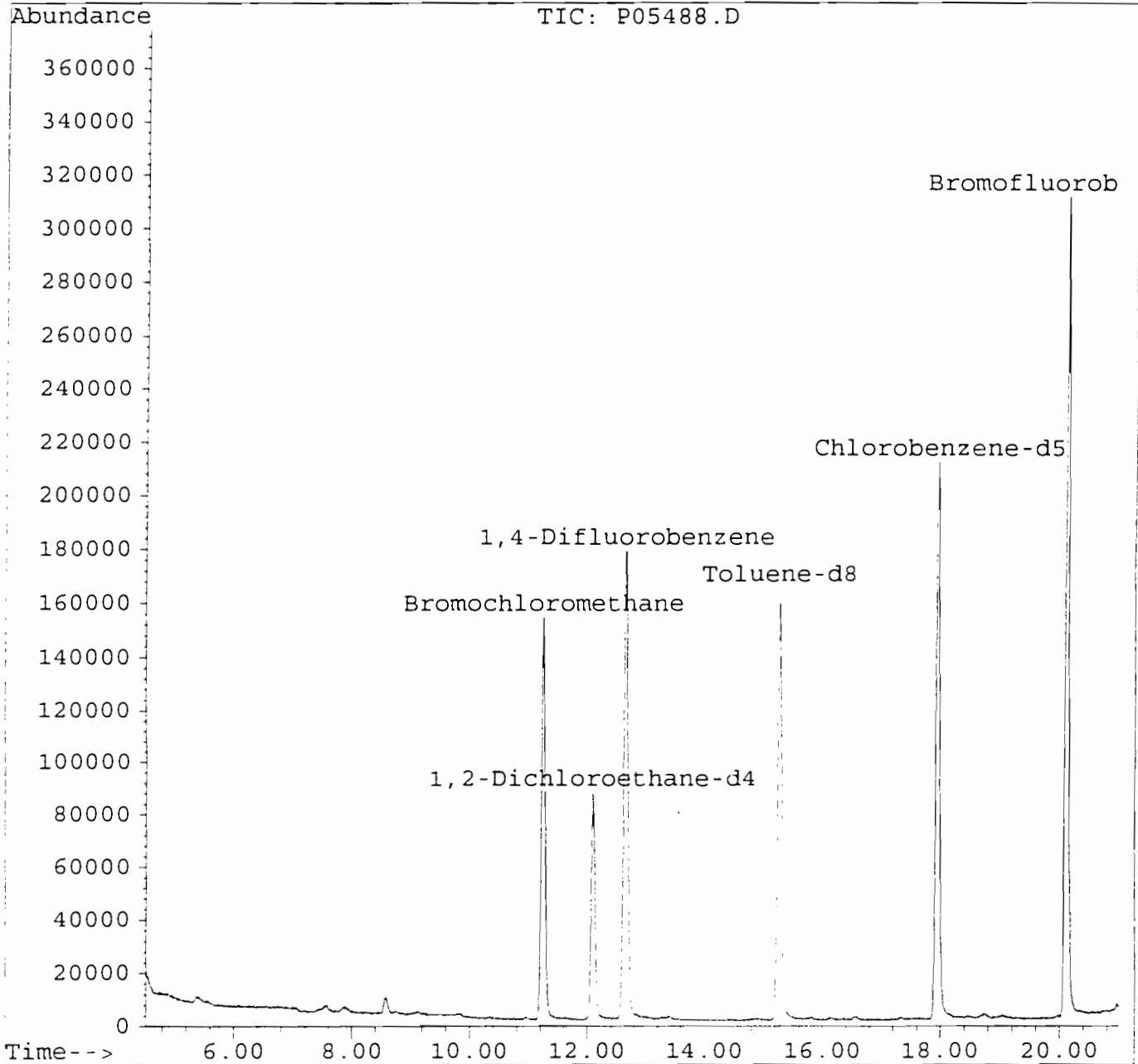
CAS NO.	COMPOUND	RT	EST. CONC.	Q

Quantitation Report

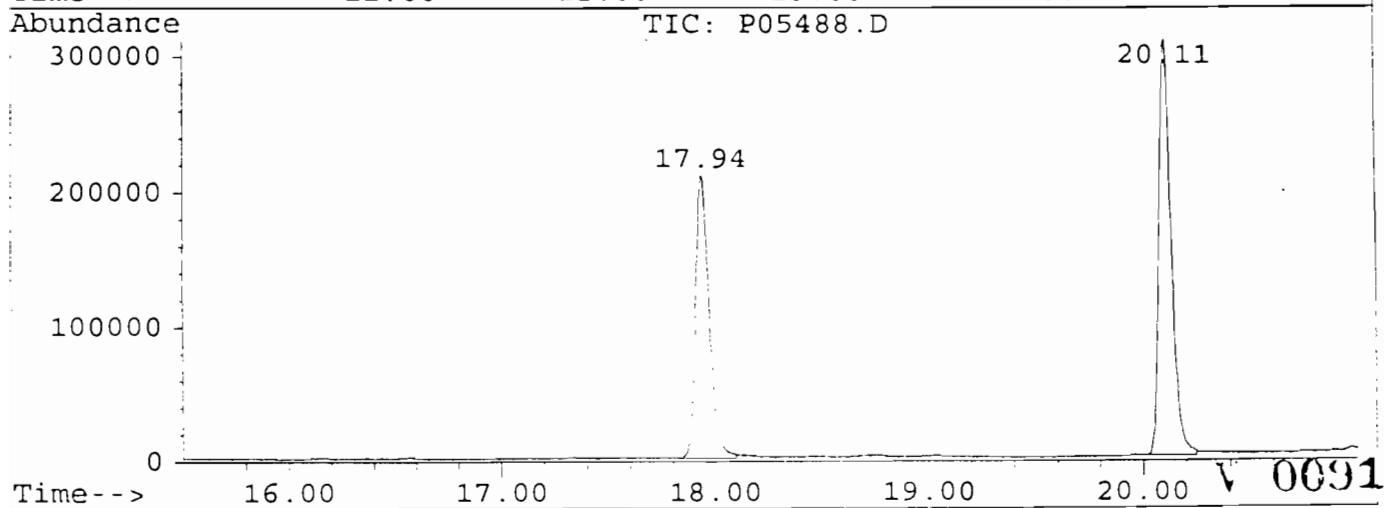
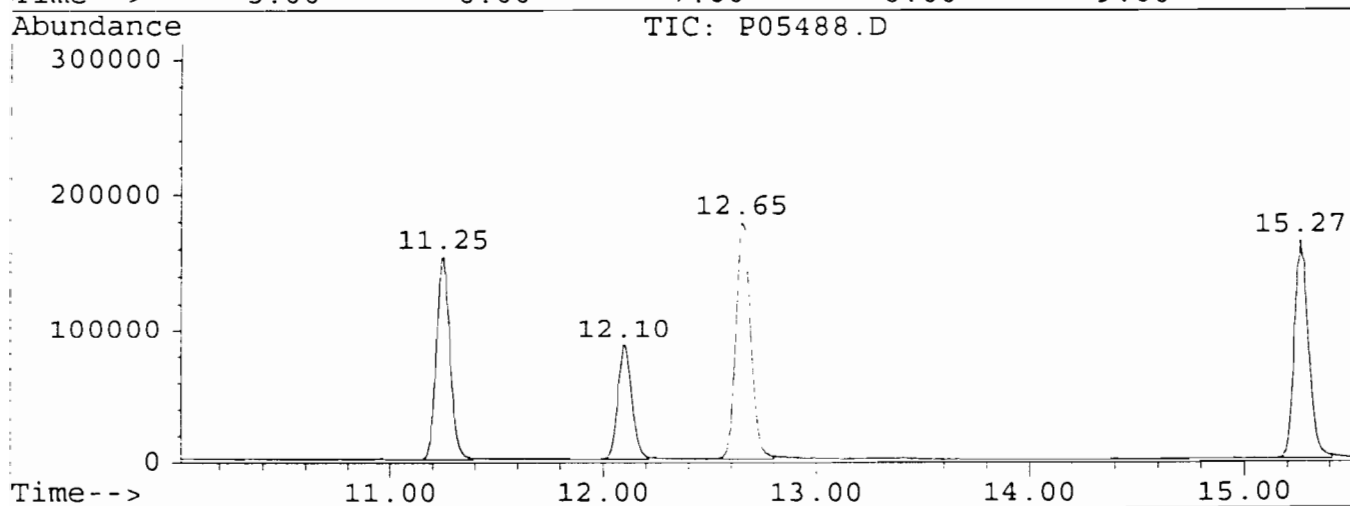
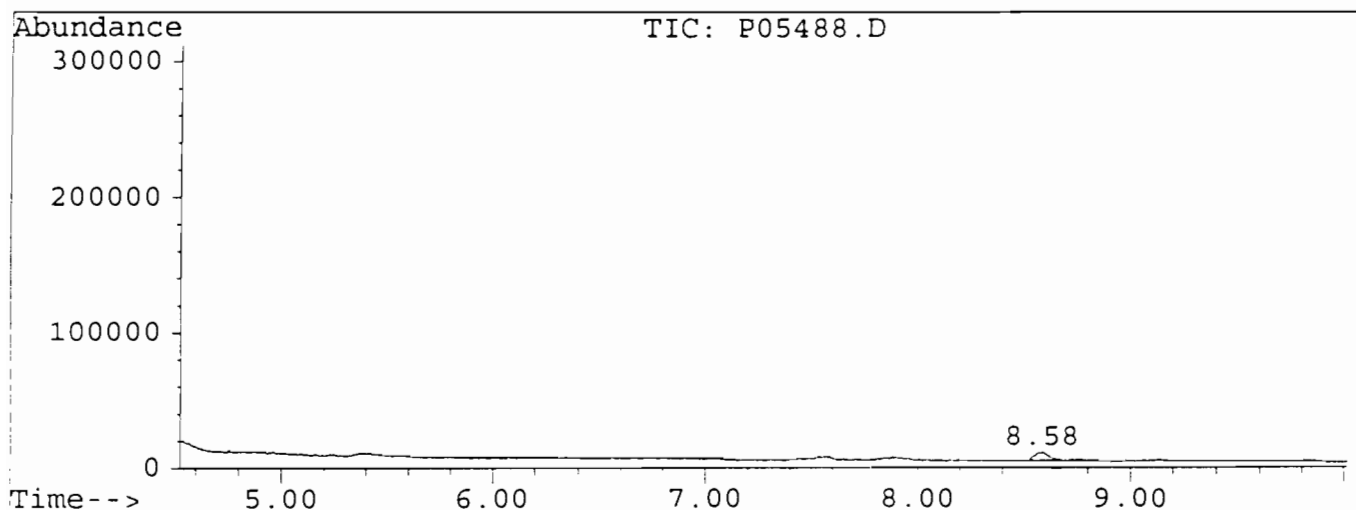
Data File : S:\MS\HP#3\JAN97\P05488.D
Acq On : 27 Jan 97 5:46 pm
Sample : 9702032
Misc : B60218 H5970-3 1/27/97 5.0G
Quant Time: Jan 27 18:11 1997

Vial: 5
Operator: GLENN
Inst : 5970 - In
Multiplr: 1.00

Method : S:\MS\HP#3\JAN97\CLPS.M
Title : VOA CLP WATER METHOD
Last Update : Wed Jan 15 13:53:47 1997
Response via : Single Level Calibration



File : S:\MS\HP#3\JAN97\P05488.D
Operator : GLENN
Acquired : 27 Jan 97 17:46 using AcqMethod CLPS
Instrument : 5970 - In
Sample Name: 9702032
Misc Info : B60218 H5970-3 1/27/97 5.0G
Vial Number: 5



Quantitation Report

Data File : S:\MS\HP#3\JAN97\P05488.D
 Acq On : 27 Jan 97 17:46
 Sample : 9702032
 Misc : B60218 H5970-3 1/27/97 5.0G
 Quant Time: Jan 27 18:11 1997

Vial: 5
 Operator: GLENN
 Inst : 5970 - In
 Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\CLPS.M
 Title : VOA CLP WATER METHOD
 Last Update : Mon Jan 27 15:49:29 1997
 Response via : Continuing Cal File: C:\HPCHEM\1\DATA\P05484.D

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	11.25	128	89348	50.00	UG/L	0.00
21) 1,4-Difluorobenzene	12.66	114	312093	50.00	UG/L	0.00
33) Chlorobenzene-d5	17.94	117	253919	50.00	UG/L	0.00
System Monitoring Compounds						%Recovery
18) 1,2-Dichloroethane-d4	12.10	65	149998	54.37	UG/L	108.73%
34) Toluene-d8	15.27	98	255827	49.04	UG/L	98.07%
43) Bromofluorobenzene	20.11	95	245972	50.45	UG/L	100.90%
Target Compounds						Qvalue
8) Acetone	7.56	43	8452	8.31	UG/L	84
9) Methylene Chloride	8.57	84	6480	2.11	UG/L #	77

(#) = qualifier out of range (m) = manual integration

1-0092

Library Search Compound Report

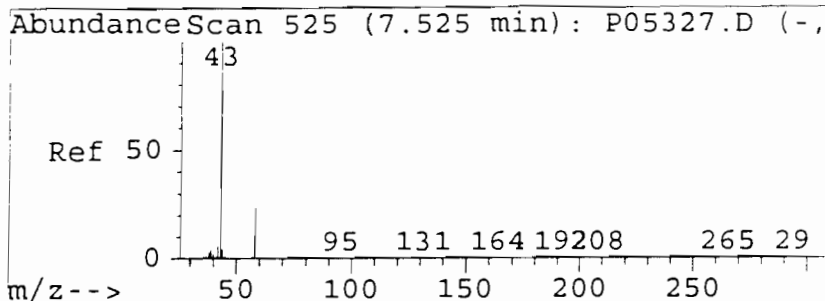
Data File : S:\MS\HP#3\JAN97\P05488.D
Acq On : 27 Jan 97 17:46
Sample : 9702032
Misc : B60218 H5970-3 1/27/97 5.0G

Vial: 5
Operator: GLENN
Inst : 5970 - In
Multiplr: 1.00

Method : S:\MS\HP#3\JAN97\CLPS.M
Title : VOA CLP WATER METHOD
Library : NBS75K.L

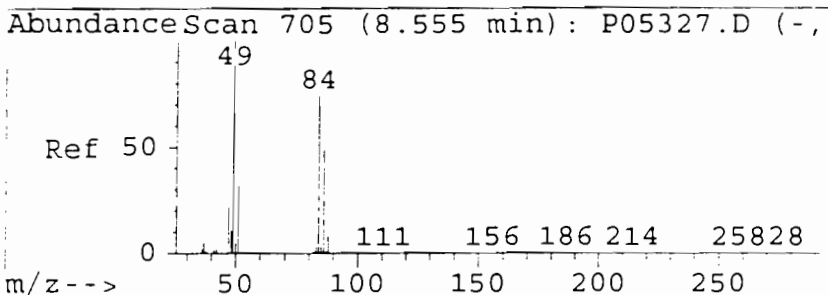
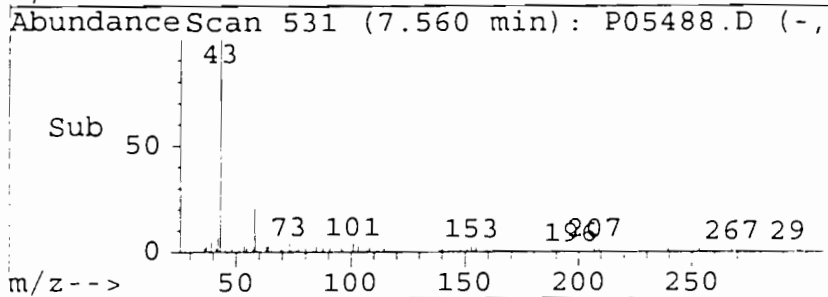
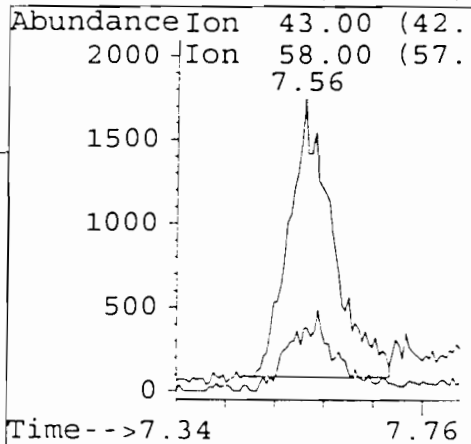
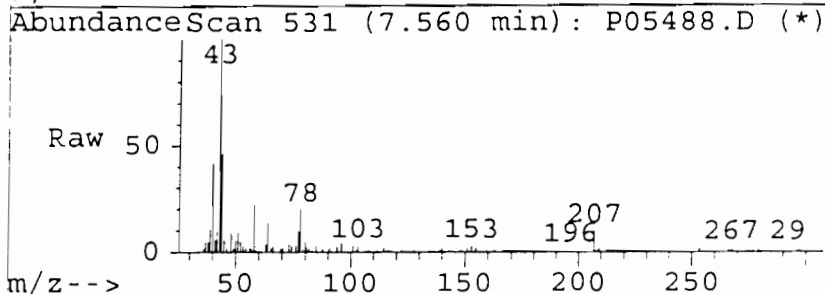
No Library Search Compounds Detected

V 0093



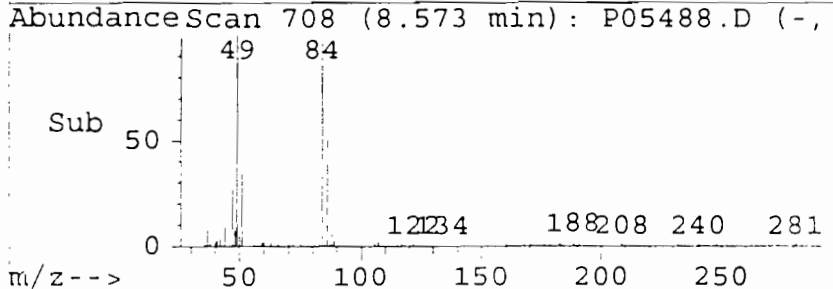
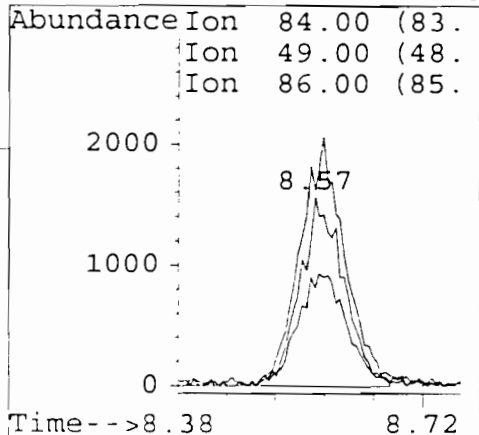
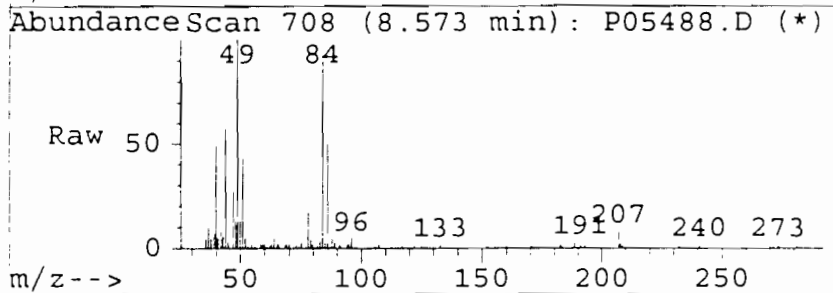
#8
Acetone
Concen: 8.31 UG/L
RT: 7.56 min Scan# 531
Delta R.T. -0.02 min
Lab File: P05488.D
Acq: 27 Jan 97 5:46 pm

Tgt Ion:	43	Resp:	8452
Ion Ratio	Lower	Upper	
43	100		
58	20.8	9.7	49.7
0	0.0	0.0	0.0
0	0.0	0.0	0.0



#9
Methylene Chloride
Concen: 2.11 UG/L
RT: 8.57 min Scan# 708
Delta R.T. -0.02 min
Lab File: P05488.D
Acq: 27 Jan 97 5:46 pm

Tgt Ion:	84	Resp:	6480
Ion Ratio	Lower	Upper	
84	100		
49	104.0	113.6	153.6#
86	51.9	48.1	88.1
0	0.0	0.0	0.0



Sample Name: 9702032
Misc. Info: B60218 H5970-3 1/27/97 5.0G
P05488.D CLPS.M Wed Feb 12 15:56:07 1997

JON

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V 0094

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B60220

Lab Name: H2M LABS INC. Contract: _____
 Lab Code: _____ Case No.: RA096 SAS No.: _____ SDG No.: NDEC012
 Matrix: (soil/water) WATER Lab Sample ID: 9702037
 Sample wt/vol: 5.0 (g/ml) ML Lab File ID: P05528.D
 Level: (low/med) LOW Date Received: 01/23/97
 % Moisture: not dec. _____ Date Analyzed: 01/29/97
 GC Column: RTX502 ID: 0.53 (mm) Dilution Factor: 1.0
 Soil Extract Volume _____ (uL) Soil Aliquot Volume: _____ (uL)

AGGP-02
(16-80')

CONCENTRATION UNITS:

CAS NO. COMPOUND (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	1	J
67-64-1	Acetone	440	E
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	1	J
75-34-4	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	9	J
71-55-6	1,1,1-Trichloroethane	82	
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	1900	E
71-43-2	Benzene	10	U
124-48-1	Dibromochloromethane	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
79-00-5	1,1,2-Trichloroethane	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	56	
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	310	E
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	1	J
100-42-5	Styrene	10	U
1330-20-7	Xylene (total)	4	J

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

B60220

Lab Name: H2M LABS INC. Contract: _____
Lab Code: _____ Case No.: RA096 SAS No.: _____ SDG No.: NDEC012
Matrix: (soil/water) WATER Lab Sample ID: 9702037
Sample wt/vol: 5.0 (g/ml) ML Lab File ID: P05528.D
Level: (low/med) LOW Date Received: 01/23/97
% Moisture: not dec. _____ Date Analyzed: 01/29/97
GC Column: RTX502 ID: 0.53 (mm) Dilution Factor: 1.0
Soil Extract Volume _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

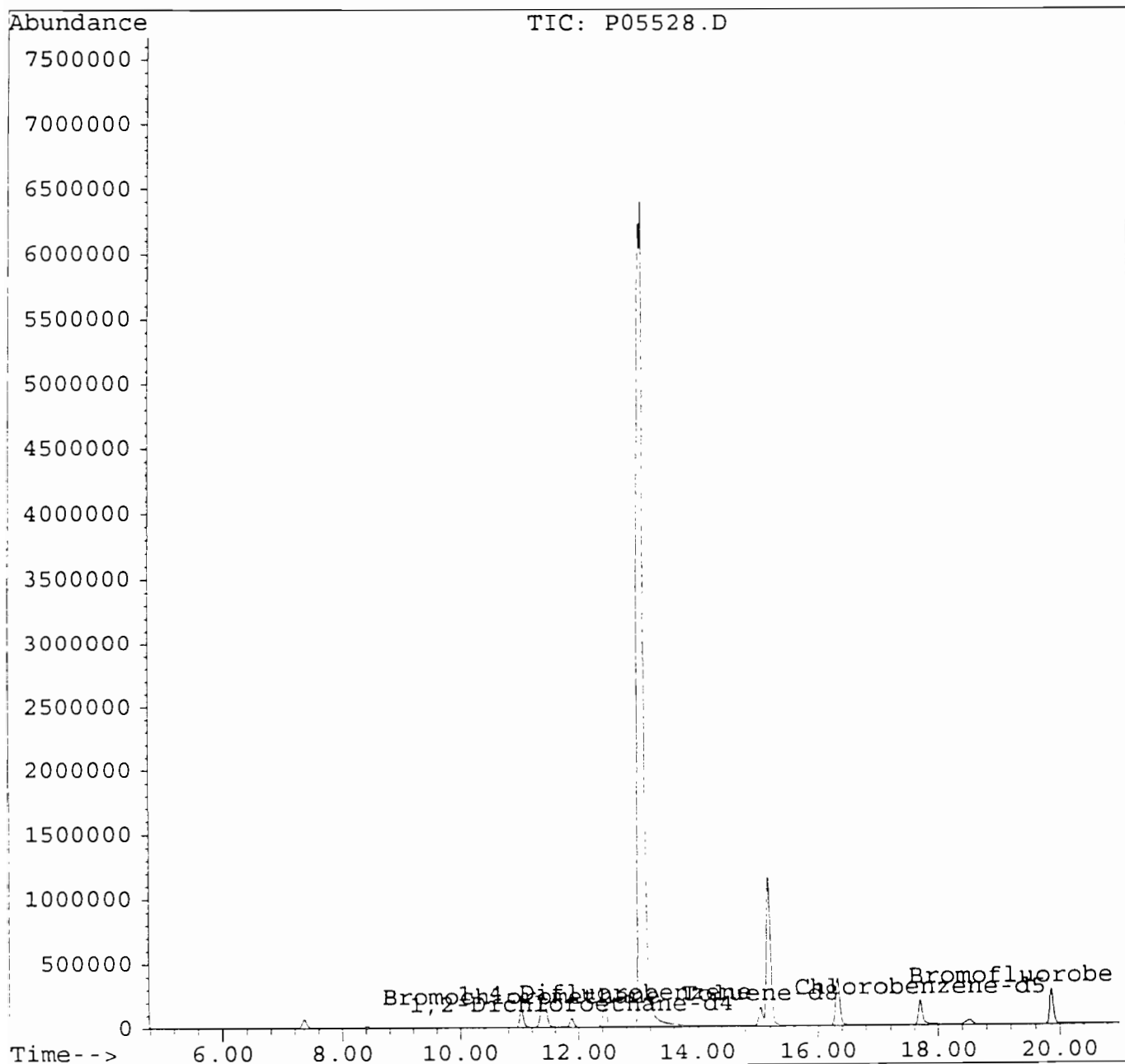
Number TICs found: 1 (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND	RT	EST. CONC.	Q
1. 000556-67-2	Cyclotetrasiloxane, octamethyl-	18.52	16	JN

Quantitation Report

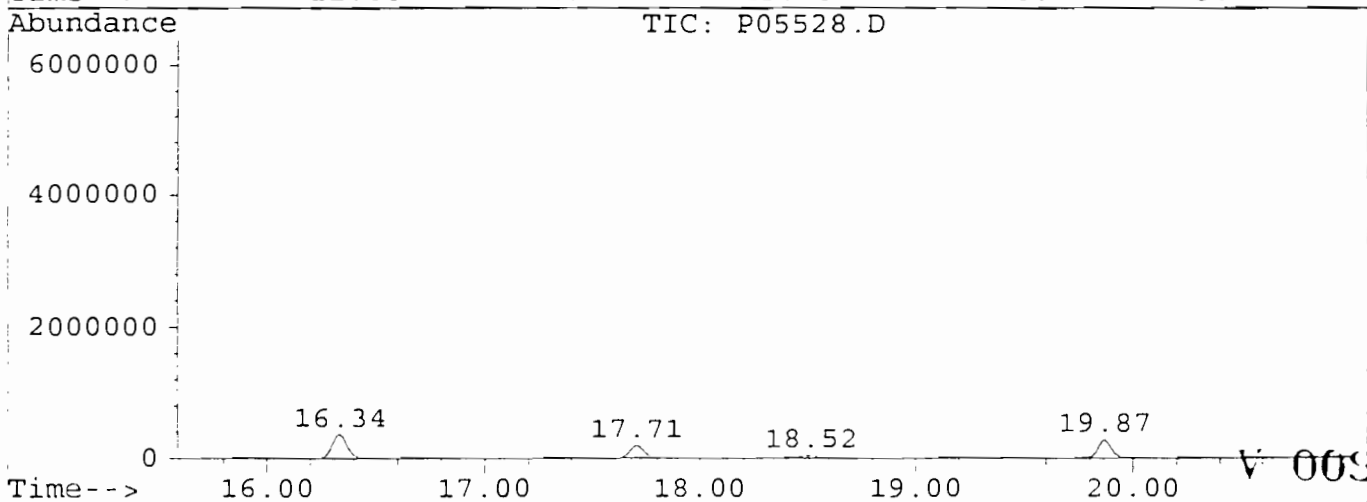
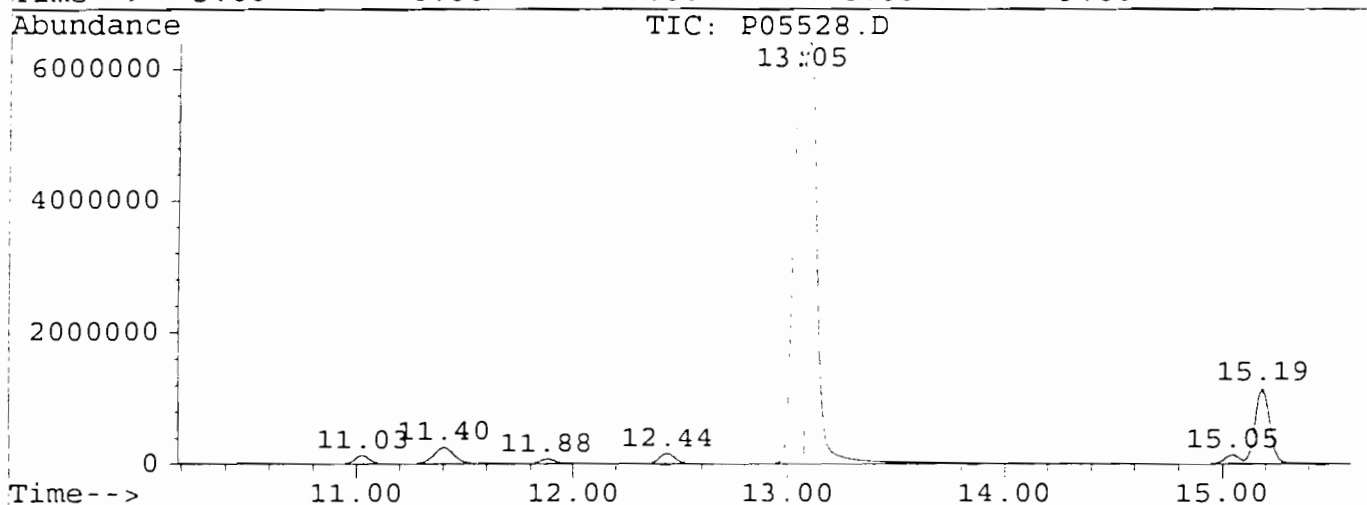
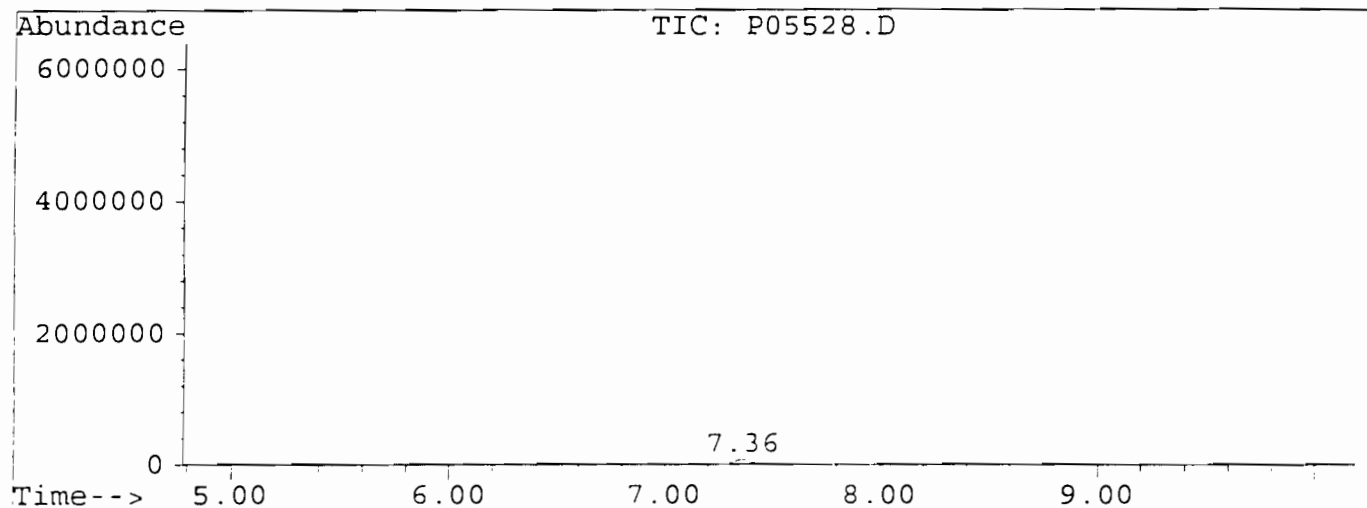
Data File : S:\MS\HP#3\JAN97\P05528.D Vial: 10
 Acq On : 29 Jan 97 6:14 pm Operator: GLENN
 Sample : 9702037 Inst : 5970 - In
 Misc : B60220 H5970-3 1/29/97 5.0ML 10UL AN Multiplr: 1.00
 Quant Time: Feb 11 18:02 1997

Method : S:\MS\HP#3\JAN97\CLPW.M
 Title : VOA CLP WATER METHOD
 Last Update : Thu Jan 16 09:32:21 1997
 Response via : Single Level Calibration



✓ 0097

File : S:\MS\HP#3\JAN97\P05528.D
Operator : GLENN
Acquired : 29 Jan 97 18:14 using AcqMethod CLPW
Instrument : 5970 - In
Sample Name: 9702037
Misc Info : B60220 H5970-3 1/29/97 5.0ML 10UL ANTIFO
Vial Number: 10



Quantitation Report

Data File : S:\MS\HP#3\JAN97\P05528.D

Acq On : 29 Jan 97 18:14

Sample : 9702037

Misc : B60220 H5970-3 1/29/97 5.0ML 10UL AN

Quant Time: Feb 11 18:02 1997

Vial: 10

Operator: GLENN

Inst : 5970 - In

Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\CLPW.M

Title : VOA CLP WATER METHOD

Last Update : Wed Jan 29 14:26:15 1997

Response via : Continuing Cal File: C:\HPCHEM\1\DATA\P05519.D

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	11.03	128	76995	50.00	UG/L	-0.03
21) 1,4-Difluorobenzene	12.44	114	286473	50.00	UG/L	-0.03
33) Chlorobenzene-d5	17.70	117	235900	50.00	UG/L	-0.03
System Monitoring Compounds						
					%Recovery	
18) 1,2-Dichloroethane-d4	11.88	65	126996	58.56	UG/L	117.12%
34) Toluene-d8	15.05	98	234668	48.00	UG/L	96.00%
43) Bromofluorobenzene	19.87	95	229783	52.34	UG/L	104.68%
Target Compounds						
					Qvalue	
6) 1,1-Dichloroethene	7.62	96	3400	1.05	UG/L #	84
8) Acetone	7.36	43	235878	436.36	UG/L	88
9) Methylene Chloride	8.38	84	2979	1.07	UG/L #	72
20) 2-Butanone	10.13	43	5190	9.09	UG/L #	58
22) 1,1,1-Trichloroethane	11.40	97	493356	82.06	UG/L	96
24) Trichloroethene	13.10	130	6818544m	1891.08	UG/L	88
36) Toluene	15.19	91	1978680	311.71	UG/L	100
37) Tetrachloroethene	16.34	164	206741	55.97	UG/L	99
40) Ethylbenzene	17.81	106	2538m	1.12	UG/L	98
41) Xylene (total)	17.95	106	11319m	4.29	UG/L	68
44) m/p-Xylene	17.95	106	7797	2.87	UG/L	98

See 1/13/97

(#) = qualifier out of range (m) = manual integration

P05528.D CLPW.M

Wed Feb 12 16:00:42 1997

JON

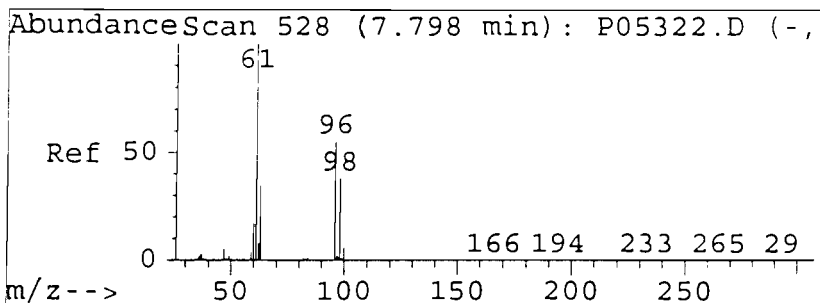
Page 1

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Tentatively Identified Compound (LSC) summary
Operator ID: GLENN Date Acquired: 29 Jan 97 18:14
Data File: S:\MS\HP#3\JAN97\P05528.D
Name: 9702037
Misc: B60220 H5970-3 1/29/97 5.0ML 10UL ANTIFO
Method: CLPW
Title: VOA CLP WATER METHOD
Library Searched: NBS75K.L

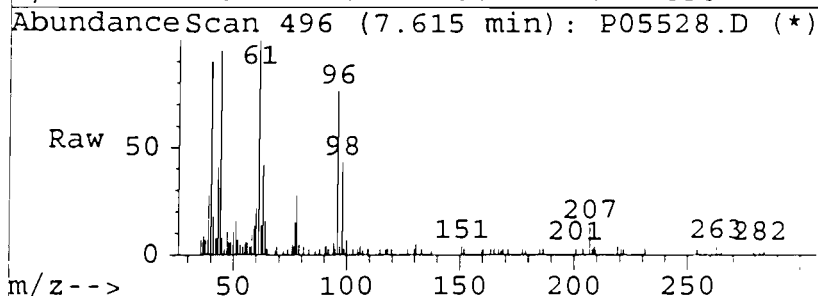
TIC Top Hit name	RT	EstConc	Units	Area	IntStd	ISRT	ISArea	ISConc
~~trichloroethylene~~	13.05	1396.0	UG/L	22090141	ISTD02	12.44	791193	50.0
Cyclotetrasiloxane,	18.52	16.0	UG/L	292379	ISTD03	17.70	915075	50.0

Sw 2/13/97

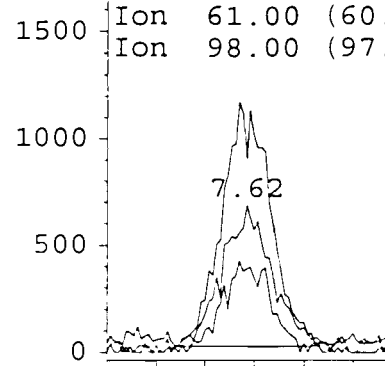


#6
1,1-Dichloroethene
Concen: 1.05 UG/L
RT: 7.62 min Scan# 496
Delta R.T. -0.04 min
Lab File: P05528.D
Acq: 29 Jan 97 6:14 pm

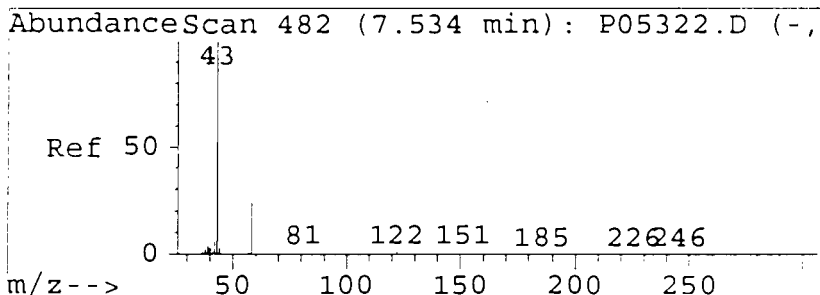
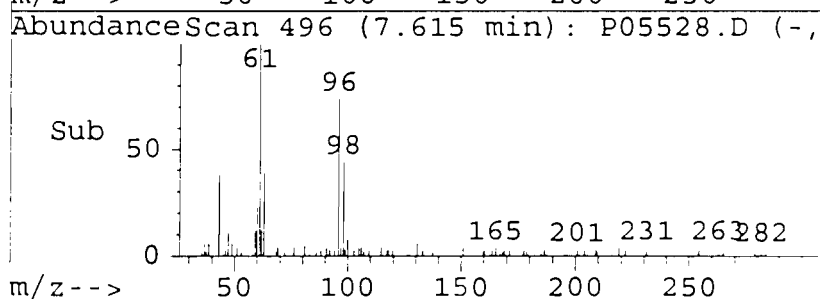
Tgt Ion	Ratio	Lower	Upper
96	100		
61	132.7	139.2	179.2#
98	58.9	44.9	84.9
0	0.0	0.0	0.0



Abundance	Ion	Ratio
96.00	(95.	
61.00	(60.	
98.00	(97.	

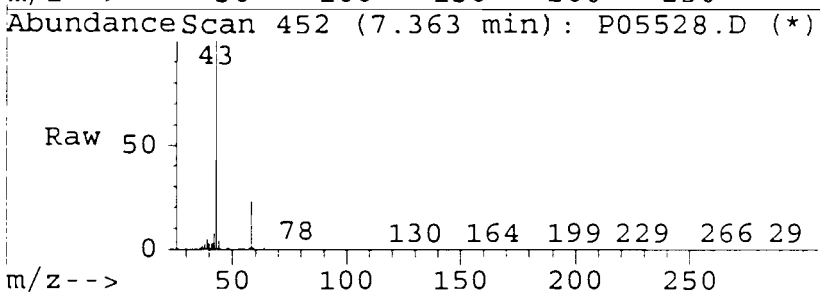


Time-->7.40 7.77

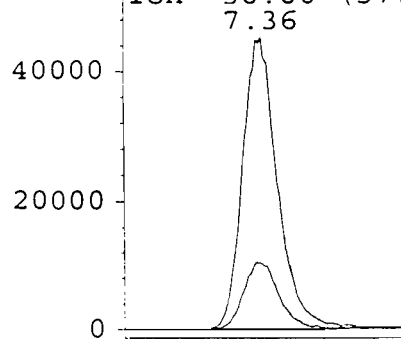


#8
Acetone
Concen: 436.36 UG/L
RT: 7.36 min Scan# 452
Delta R.T. -0.03 min
Lab File: P05528.D
Acq: 29 Jan 97 6:14 pm

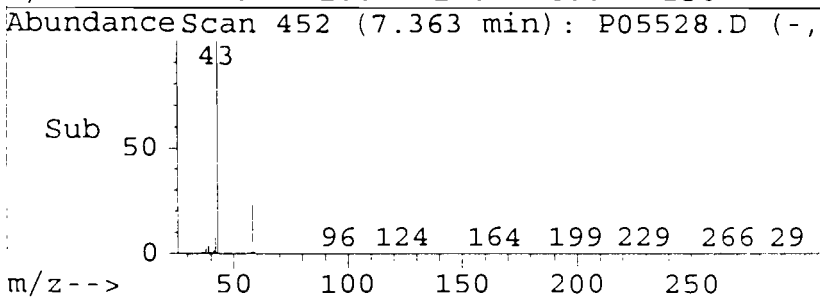
Tgt Ion	Ratio	Lower	Upper
43	100		
58	23.0	9.7	49.7
0	0.0	0.0	0.0
0	0.0	0.0	0.0



Abundance	Ion	Ratio
43.00	(42.	
58.00	(57.	



Time-->7.07 7.60



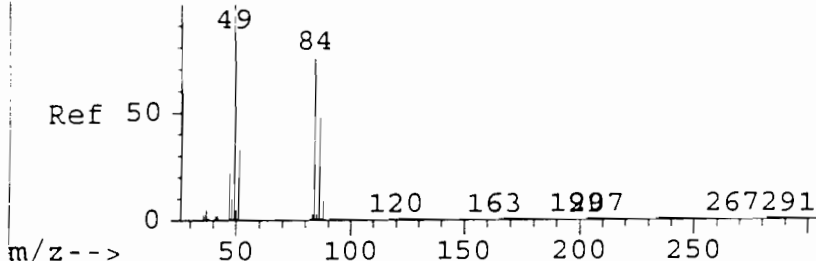
Sample Name: 9702037

Misc. Info: B60220 H5970-3 1/29/97 5.0ML 10UL ANTIFO
P05528.D CLPW.M Wed Feb 12 16:00:55 1997 JON

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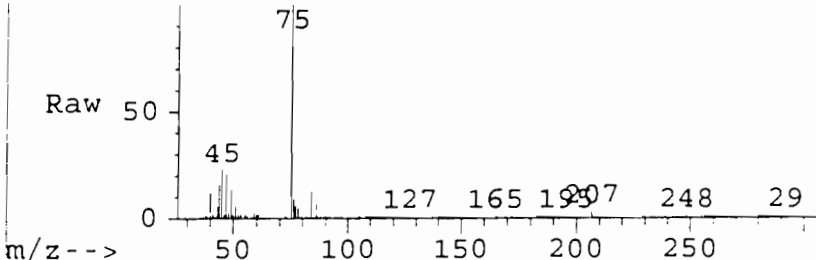
AbundanceScan 661 (8.559 min): P05322.D (-,



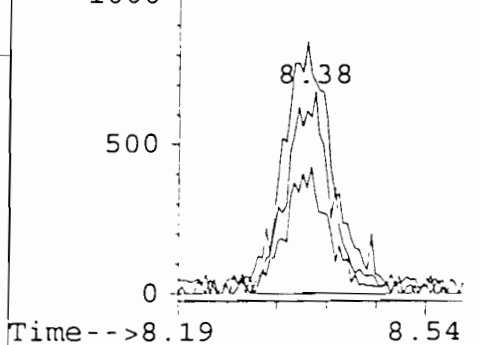
#9
Methylene Chloride
Concen: 1.07 UG/L
RT: 8.38 min Scan# 630
Delta R.T. -0.03 min
Lab File: P05528.D
Acq: 29 Jan 97 6:14 pm

Tgt Ion:	84	Resp:	2979
Ion	Ratio	Lower	Upper
84	100		
49	96.9	113.6	153.6#
86	49.6	48.1	88.1
0	0.0	0.0	0.0

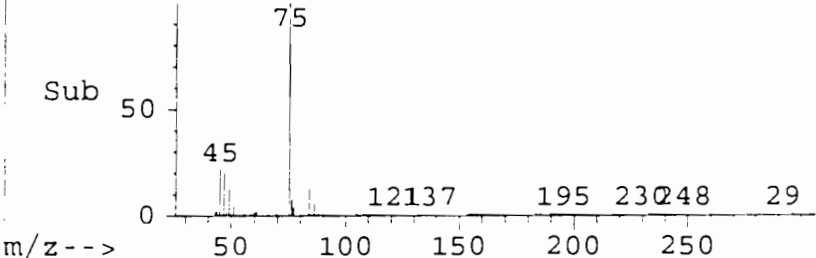
AbundanceScan 630 (8.382 min): P05528.D (*)



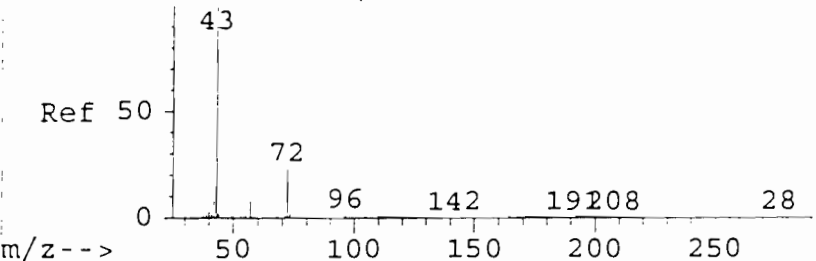
Abundance	Ion	84.00 (83.
	Ion	49.00 (48.
	Ion	86.00 (85.



AbundanceScan 630 (8.382 min): P05528.D (-,



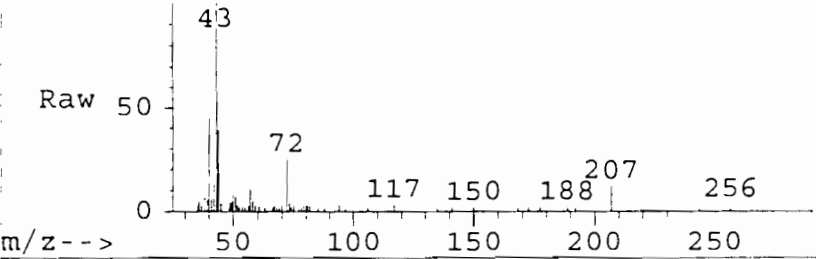
AbundanceScan 969 (10.322 min): P05322.D (-,



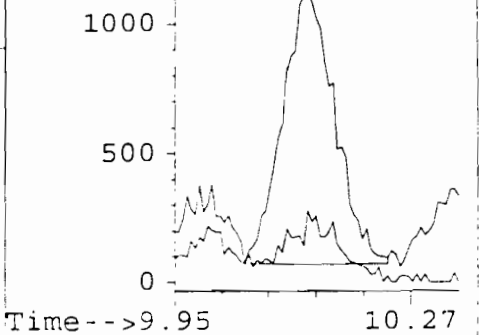
#20
2-Butanone
Concen: 9.09 UG/L
RT: 10.13 min Scan# 936
Delta R.T. -0.02 min
Lab File: P05528.D
Acq: 29 Jan 97 6:14 pm

Tgt Ion:	42.95	Resp:	5190
Ion	Ratio	Lower	Upper
43	100		
72	2.9	3.6	43.6#
0	0.0	0.0	0.0
0	0.0	0.0	0.0

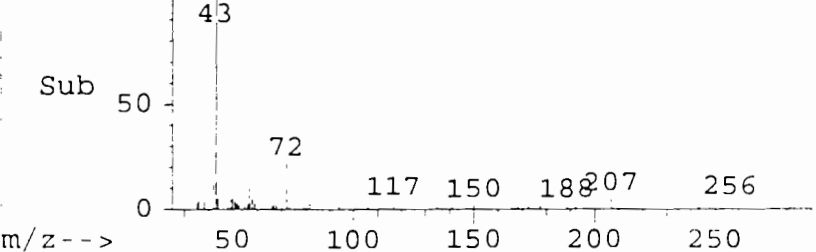
AbundanceScan 936 (10.134 min): P05528.D (*)



Abundance	Ion	42.95 (42.
	Ion	72.00 (71.
		10.13



AbundanceScan 936 (10.134 min): P05528.D (-,



Sample Name: 9702037

Misc. Info: B60220 H5970-3 1/29/97 5.0ML 10UL ANTIFO

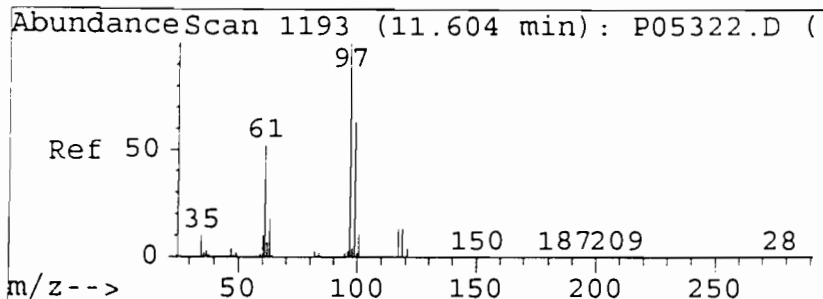
P05528.D CLPW.M

Wed Feb 12 16:01:00 1997

JON

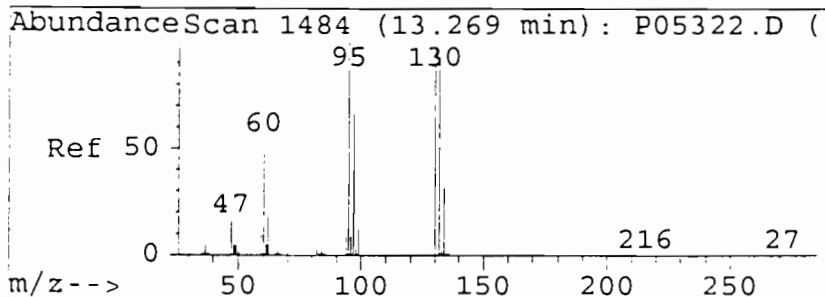
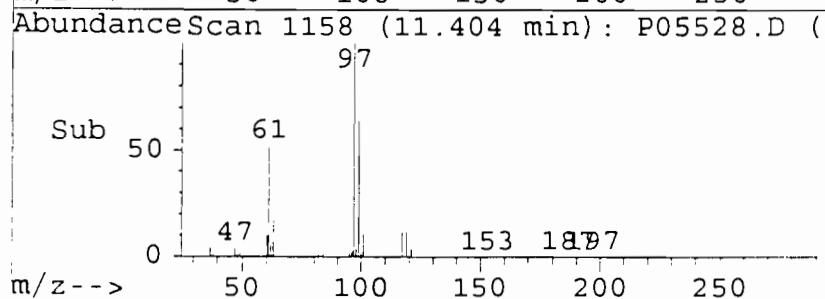
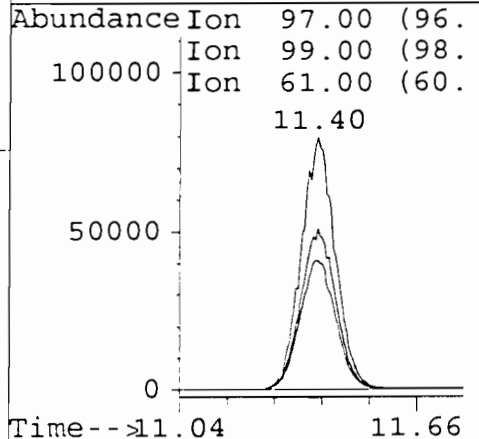
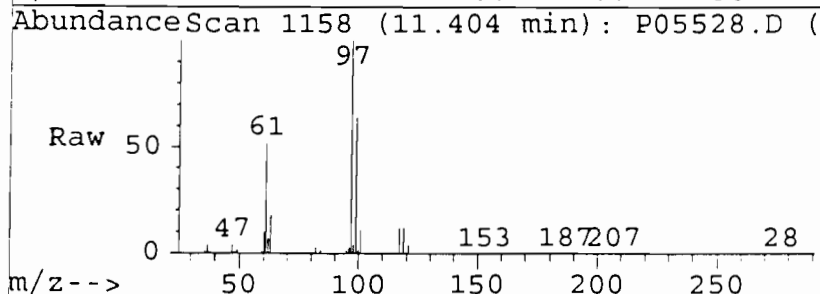
V C102

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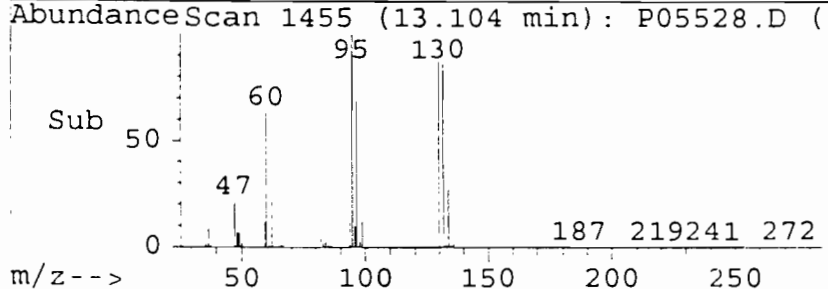
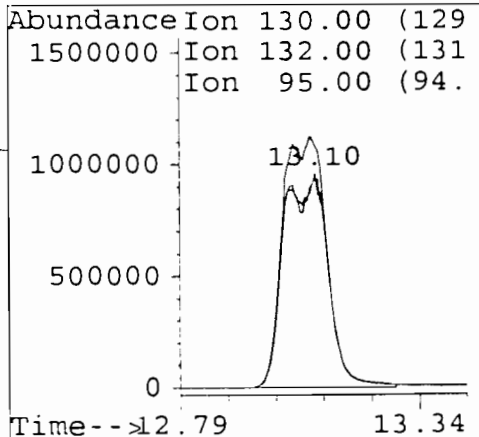
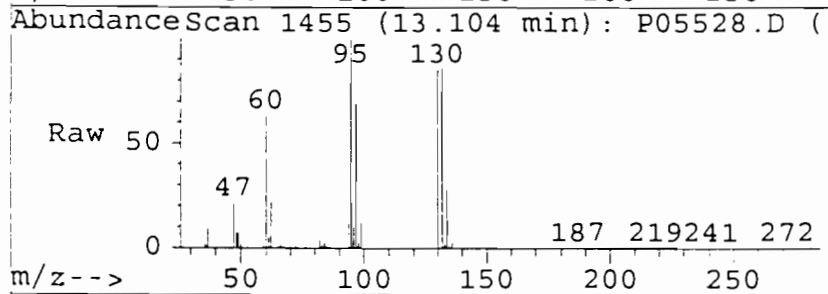
#22
1,1,1-Trichloroethane
Concen: 82.06 UG/L
RT: 11.40 min Scan# 1158
Delta R.T. -0.03 min
Lab File: P05528.D
Acq: 29 Jan 97 6:14 pm

Tgt Ion:	97	Resp:	493356
Ion	Ratio	Lower	Upper
97	100		
99	64.2	46.6	86.6
61	51.6	27.5	67.5
0	0.0	0.0	0.0



#24
Trichloroethene
Concen: 1891.08 UG/L m
RT: 13.10 min Scan# 1455
Delta R.T. 0.01 min
Lab File: P05528.D
Acq: 29 Jan 97 6:14 pm

Tgt Ion:	130	Resp:	6818544
Ion	Ratio	Lower	Upper
130	100		
132	97.6	82.0	122.0
95	112.9	80.0	120.0
0	0.0	0.0	0.0

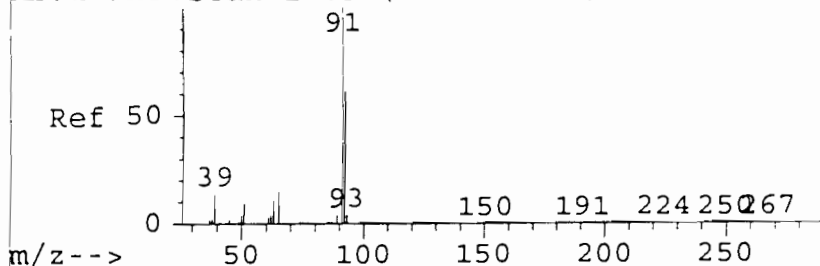


Sample Name: 9702037

Misc. Info: B60220 H5970-3 1/29/97 5.0ML 10UL ANTIFO
P05528.D CLPW.M Wed Feb 12 16:01:04 1997 JON

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Page 5

AbundanceScan 1855 (15.393 min): P05322.D (



#36

Toluene

Concen: 311.71 UG/L

RT: 15.19 min Scan# 1819

Delta R.T. -0.03 min

Lab File: P05528.D

Acq: 29 Jan 97 6:14 pm

Tgt Ion:91 Resp: 1978680

Ion Ratio Lower Upper

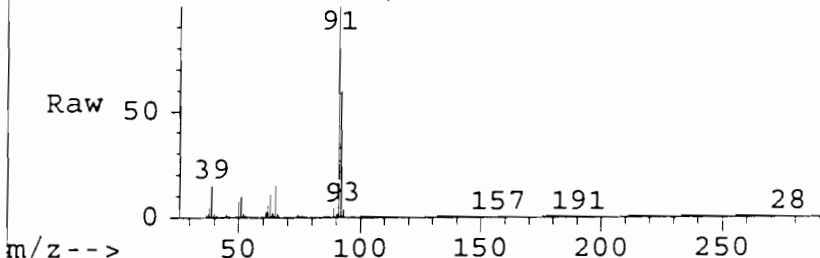
91 100

92 59.7 40.1 80.1

0 0.0 0.0 0.0

0 0.0 0.0 0.0

AbundanceScan 1819 (15.188 min): P05528.D (



AbundanceIon 91.00 (90.

Ion 92.00 (91.

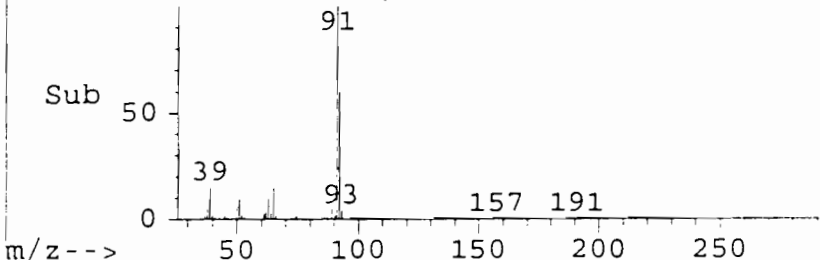
15.19

400000

200000

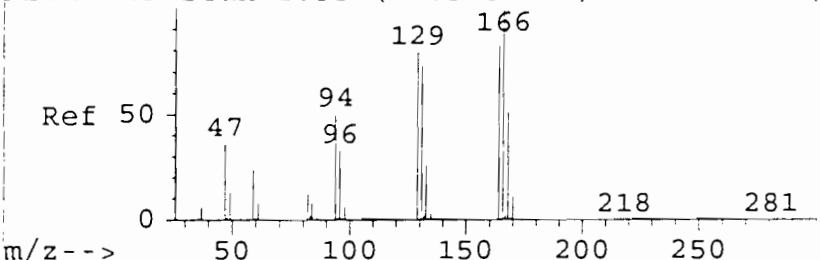
0

AbundanceScan 1819 (15.188 min): P05528.D (



Time-->14.85 15.51

AbundanceScan 2055 (16.538 min): P05322.D (



#37

Tetrachloroethene

Concen: 55.97 UG/L

RT: 16.34 min Scan# 2020

Delta R.T. -0.02 min

Lab File: P05528.D

Acq: 29 Jan 97 6:14 pm

Tgt Ion:164 Resp: 206741

Ion Ratio Lower Upper

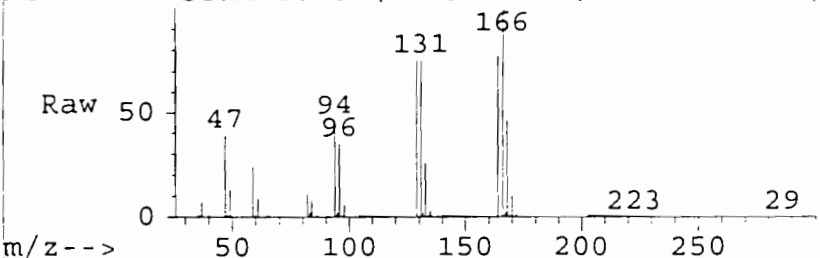
164 100

166 129.5 109.5 149.5

168 59.7 42.4 82.4

0 0.0 0.0 0.0

AbundanceScan 2020 (16.338 min): P05528.D (



AbundanceIon 164.00 (163

Ion 166.00 (165

Ion 168.00 (167

80000

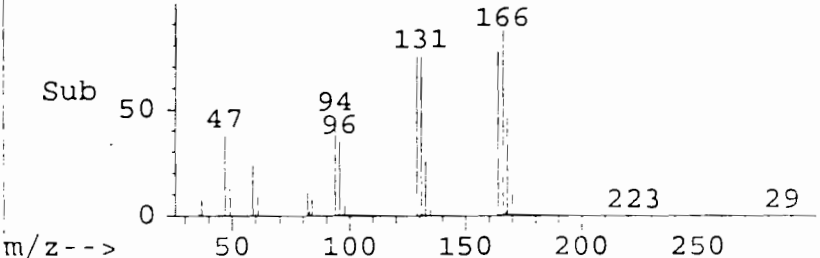
60000

40000

20000

0

AbundanceScan 2020 (16.338 min): P05528.D (



Time-->16.06 16.55

Sample Name: 9702037

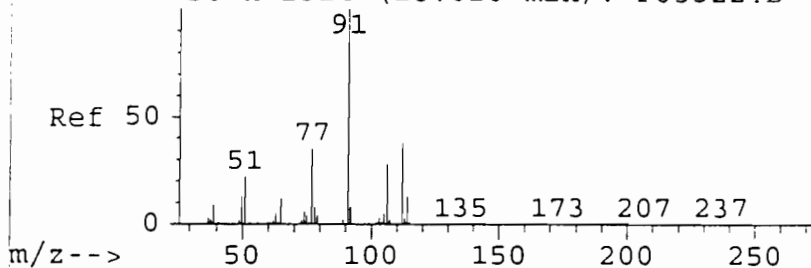
Misc. Info: B60220 H5970-3 1/29/97 5.0ML 10UL ANTIFO

P05528.D CLPW.M Wed Feb 12 16:01:10 1997

JON

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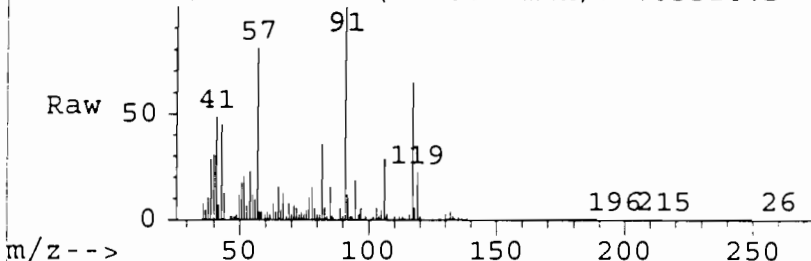
AbundanceScan 2314 (18.020 min): P05322.D (



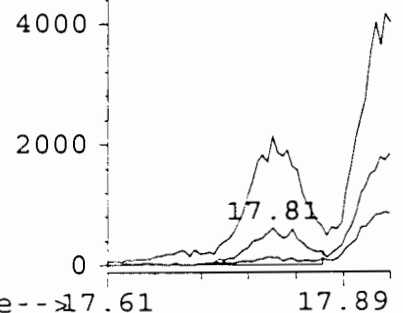
#40
Ethylbenzene
Concen: 1.12 UG/L m
RT: 17.81 min Scan# 2277
Delta R.T. -0.03 min
Lab File: P05528.D
Acq: 29 Jan 97 6:14 pm

Tgt Ion:106	Resp:	2538
Ion Ratio	Lower	Upper
106	100	
91	347.8	288.9 328.9#
105	19.0	0.0 36.5
0	0.0	0.0 0.0

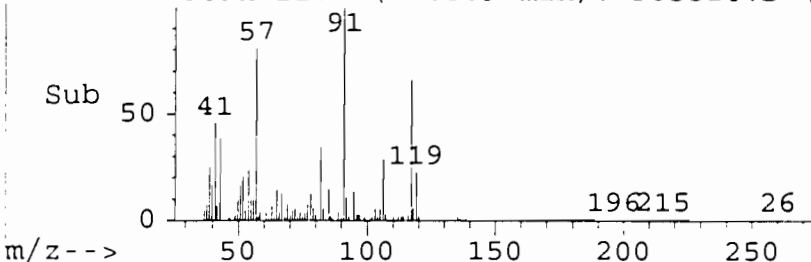
AbundanceScan 2277 (17.809 min): P05528.D (



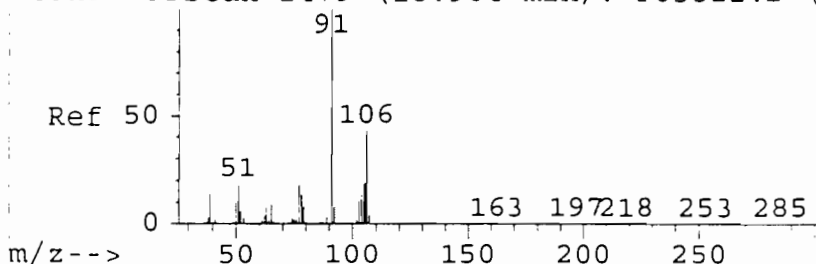
Abundance Ion 106.00 (105
Ion 91.00 (90.
Ion 105.00 (104



AbundanceScan 2277 (17.809 min): P05528.D (



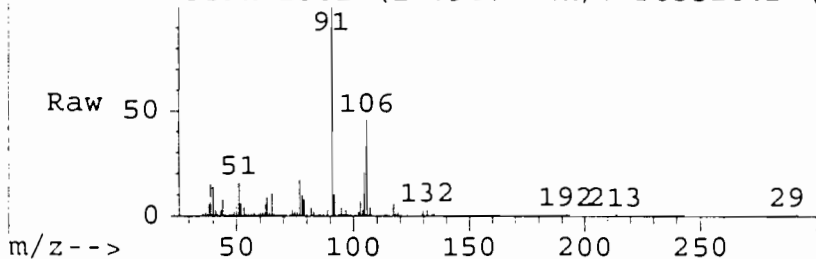
AbundanceScan 2479 (18.964 min): P05322.D (



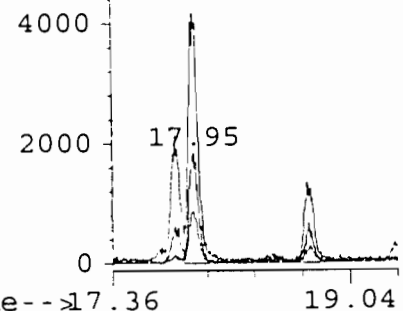
#41
Xylene (total)
Concen: 4.29 UG/L m
RT: 17.95 min Scan# 2301
Delta R.T. -0.83 min
Lab File: P05528.D
Acq: 29 Jan 97 6:14 pm

Tgt Ion:106	Resp:	11319
Ion Ratio	Lower	Upper
106	100	
91	218.2	194.5 234.5
105	45.7	22.1 62.1
0	0.0	0.0 0.0

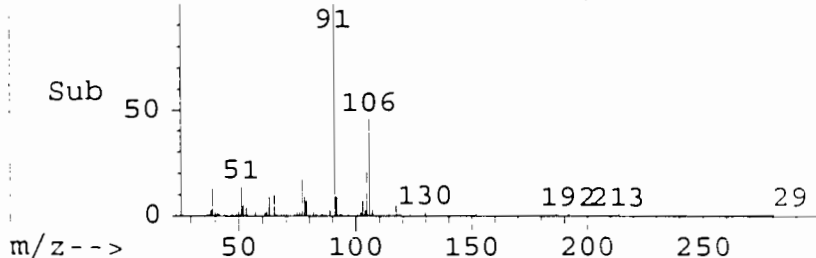
AbundanceScan 2301 (17.946 min): P05528.D (



Abundance Ion 106.00 (105
Ion 91.00 (90.
Ion 105.00 (104



AbundanceScan 2301 (17.946 min): P05528.D (



Sample Name: 9702037

Misc. Info: B60220 H5970-3 1/29/97 5.0ML 10UL ANTIFO

P05528.D CLPW.M

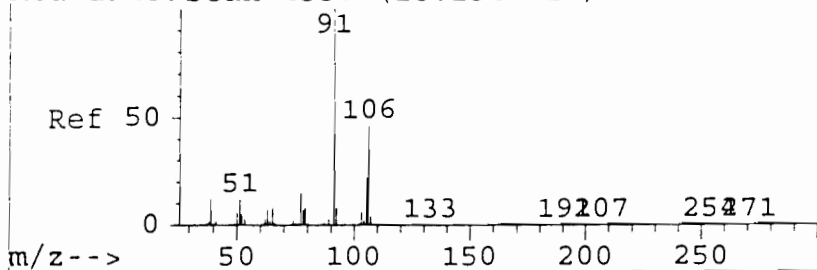
Wed Feb 12 16:01:15 1997

JON

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AbundanceScan 2337 (18.152 min): P05322.D (



#44

m/p-Xylene

Concen: 2.87 UG/L

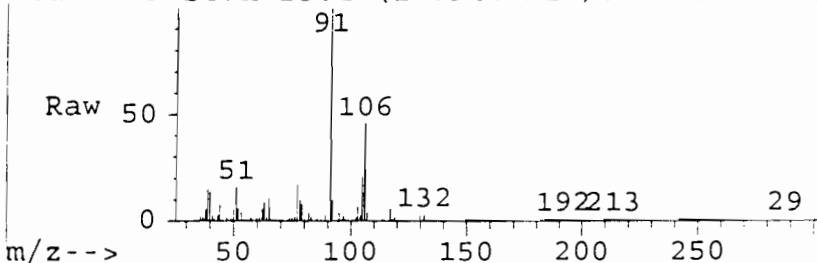
RT: 17.95 min Scan# 2301

Delta R.T. -0.03 min

Lab File: P05528.D

Acq: 29 Jan 97 6:14 pm

AbundanceScan 2301 (17.946 min): P05528.D (



Tgt Ion:106 Resp: 7797

Ion Ratio Lower Upper

106 100

91 212.0 188.9 228.9

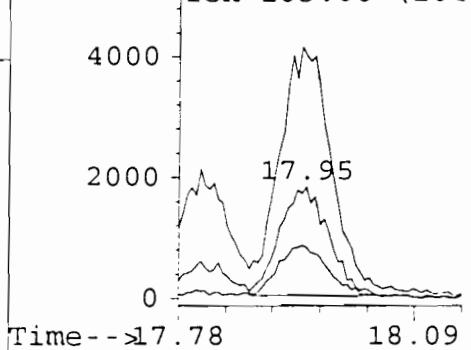
105 45.2 27.5 67.5

0 0.0 0.0 0.0

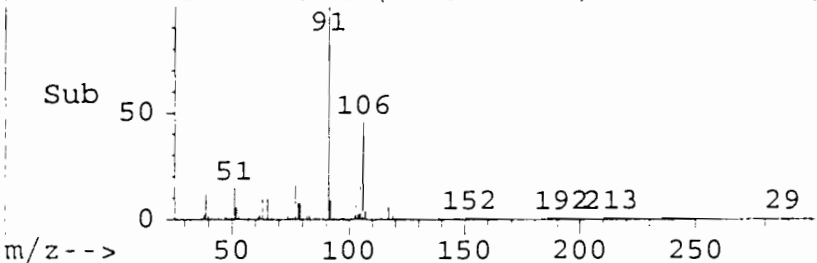
AbundanceIon 106.00 (105

Ion 91.00 (90.

Ion 105.00 (104



AbundanceScan 2301 (17.946 min): P05528.D (



Sample Name: 9702037

Misc. Info: B60220 H5970-3 1/29/97 5.0ML 10UL ANTIFO

P05528.D CLPW.M

Wed Feb 12 16:01:17 1997

JON

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Library Search Compound Report

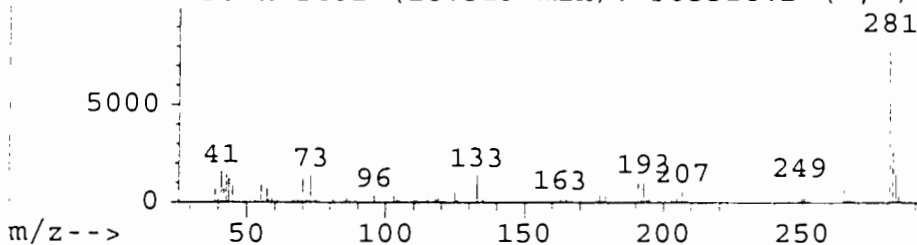
Data File : S:\MS\HP#3\JAN97\P05528.D
Acq On : 29 Jan 97 18:14
Sample : 9702037
Misc : B60220 H5970-3 1/29/97 5.0ML 10UL AN

Vial: 10
Operator: GLENN
Inst : 5970 - In
Multiplr: 1.00

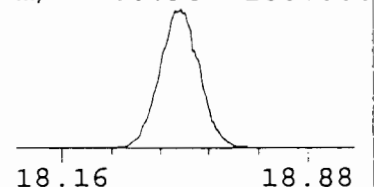
Method : S:\MS\HP#3\JAN97\CLPW.M
Title : VOA CLP WATER METHOD
Library : C:\DATABASE\NBS75K.L

R.T.	Conc	Area	Relative to ISTD	R.T.	
18.52	15.98 UG/L	292379	Chlorobenzene-d5	17.70	
Hit# of 10	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclotetrasiloxane, octamethyl-	296	C8H24O4Si4	000556-67-2	35
2	Benzene, 1-phenyl-4-(2-cyano-2-phen	281	C21H15N	027869-56-3	25
3	2(1H)-Pyrimidinone, 5-chloro-4,6-di	282	C16H11ClN2O	028567-83-1	9
4	6,7-Benzo-phenothiazine-5,5-dioxide	281	C16H11NO2S	000000-00-0	9
5	Morphinan, 7,8-didehydro-3-methoxy-	281	C19H23NO	001816-06-4	5

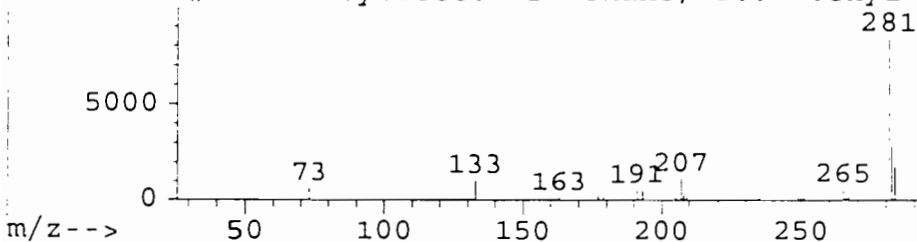
Abundance Scan 2401 (18.519 min): P05528.D (-,*)



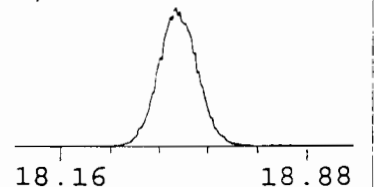
m/z 280.90 100.00%



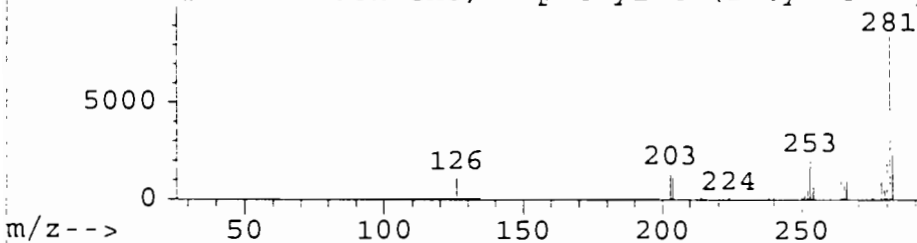
Abundance #41966: Cyclotetrasiloxane, octamethyl-



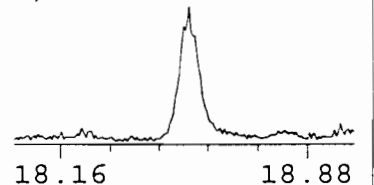
m/z 281.90 26.17%



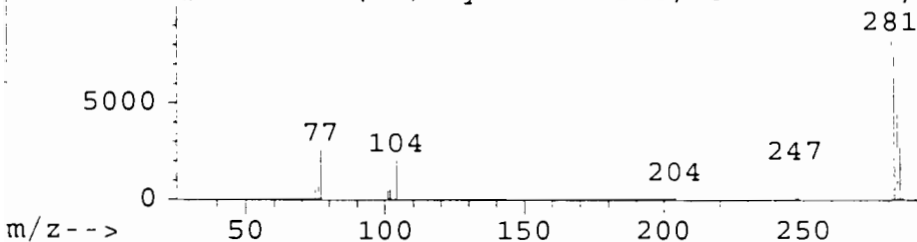
Abundance #39643: Benzene, 1-phenyl-4-(2-cyano-2-p



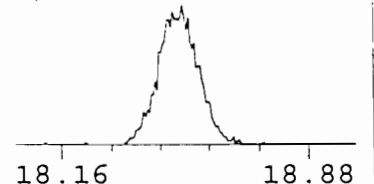
m/z 41.05 16.46%



Abundance #39758: 2(1H)-Pyrimidinone, 5-chloro-4,6



m/z 282.95 16.28%



m/z 43.05 14.68%

V C107

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B60220DL

Lab Name: H2M LABS INC. Contract: _____

Lab Code: _____ Case No.: RA096 SAS No.: _____ SDG No.: NDEC012

Matrix: (soil/water) WATER Lab Sample ID: 9702037DL 1:2

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: P05540.D

Level: (low/med) LOW Date Received: 01/23/97

% Moisture: not dec. _____ Date Analyzed: 01/30/97

GC Column: RTX502 ID: 0.53 (mm) Dilution Factor: 25.0

Soil Extract Volume _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/L	Q
74-87-3	Chloromethane	250	U	
74-83-9	Bromomethane	250	U	
75-01-4	Vinyl Chloride	250	U	
75-00-3	Chloroethane	250	U	
75-09-2	Methylene Chloride	46	JBD	
67-64-1	Acetone	480	D	
75-15-0	Carbon Disulfide	250	U	
75-35-4	1,1-Dichloroethene	250	U	
75-34-4	1,1-Dichloroethane	250	U	
540-59-0	1,2-Dichloroethene (total)	58	JD	
67-66-3	Chloroform	250	U	
107-06-2	1,2-Dichloroethane	250	U	
78-93-3	2-Butanone	250	U	
71-55-6	1,1,1-Trichloroethane	64	JD	
56-23-5	Carbon Tetrachloride	250	U	
75-27-4	Bromodichloromethane	250	U	
78-87-5	1,2-Dichloropropane	250	U	
10061-01-5	cis-1,3-Dichloropropene	250	U	
79-01-6	Trichloroethene	3900	D	
71-43-2	Benzene	250	U	
124-48-1	Dibromochloromethane	250	U	
10061-02-6	trans-1,3-Dichloropropene	250	U	
79-00-5	1,1,2-Trichloroethane	250	U	
75-25-2	Bromoform	250	U	
108-10-1	4-Methyl-2-Pentanone	250	U	
591-78-6	2-Hexanone	250	U	
127-18-4	Tetrachloroethene	54	JD	
79-34-5	1,1,2,2-Tetrachloroethane	250	U	
108-88-3	Toluene	320	D	
108-90-7	Chlorobenzene	250	U	
100-41-4	Ethylbenzene	250	U	
100-42-5	Styrene	250	U	
1330-20-7	Xylene (total)	250	U	

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

B60220DL

Lab Name: H2M LABS INC. Contract: _____
Lab Code: _____ Case No.: RA096 SAS No.: _____ SDG No.: NDEC012
Matrix: (soil/water) WATER Lab Sample ID: 9702037DL 1:2
Sample wt/vol: 5.0 (g/ml) ML Lab File ID: P05540.D
Level: (low/med) LOW Date Received: 01/23/97
% Moisture: not dec. _____ Date Analyzed: 01/30/97
GC Column: RTX502. ID: 0.53 (mm) Dilution Factor: 25.0
Soil Extract Volume _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

Number TICs found: 0 (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND	RT	EST. CONC.	Q

V C109

Quantitation Report

Data File : S:\MS\HP#3\JAN97\P05540.D

Vial: 4

Acq On : 30 Jan 97 1:54 pm

Operator: GLENN

Sample : 9702037DL 1:25

Inst : 5970 - In

Misc : B60220DL 1:25 H5970-3 1/30/97 5.0ML

Multiplr: 1.00

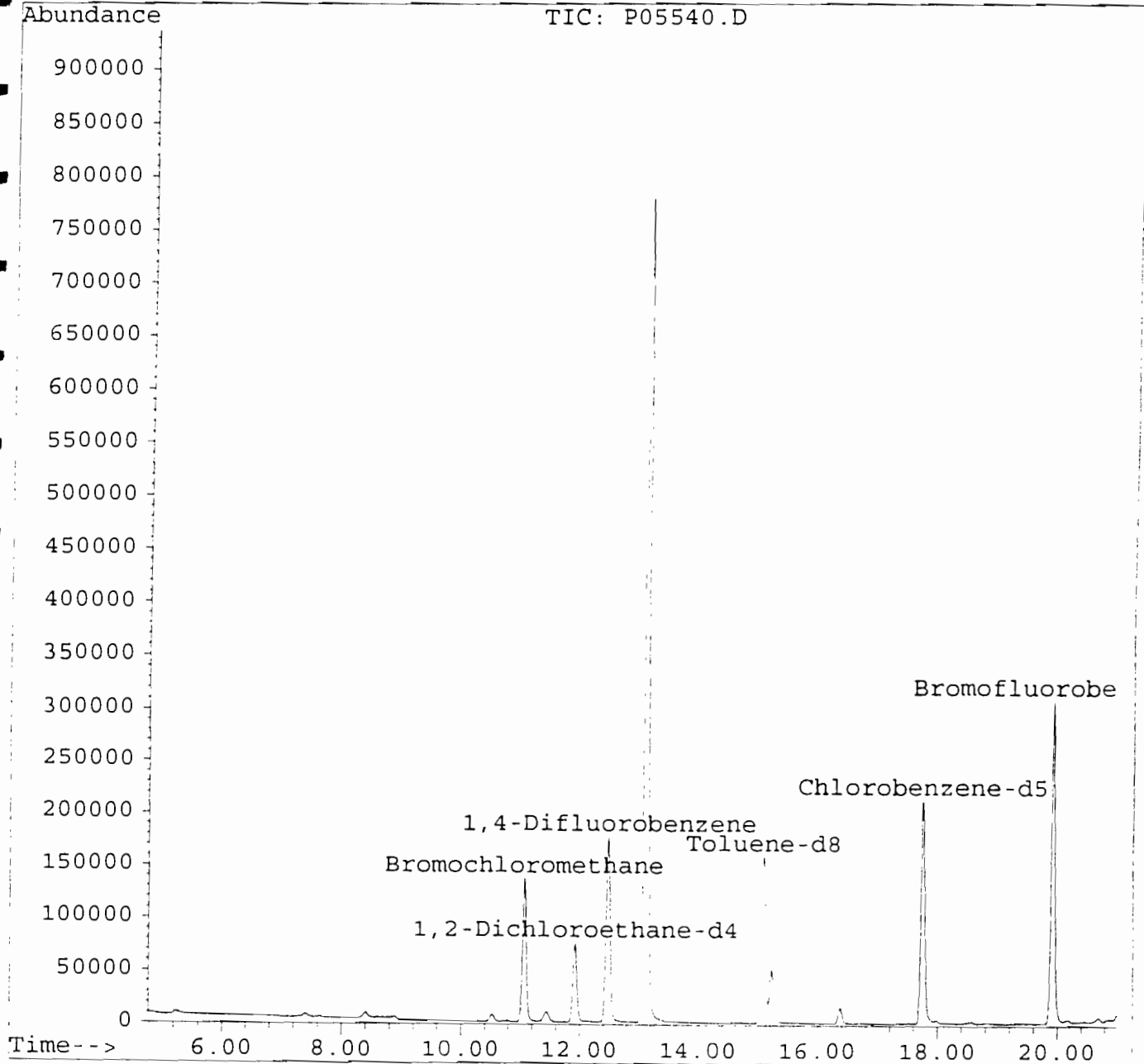
Quant Time: Feb 11 18:15 1997

Method : S:\MS\HP#3\JAN97\CLPW.M

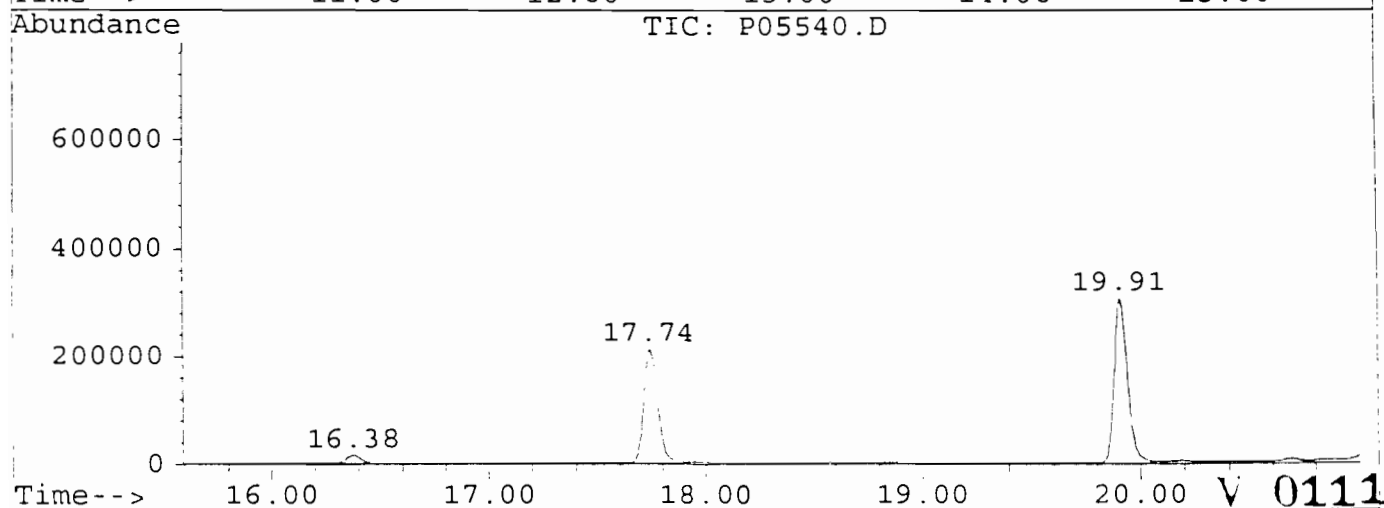
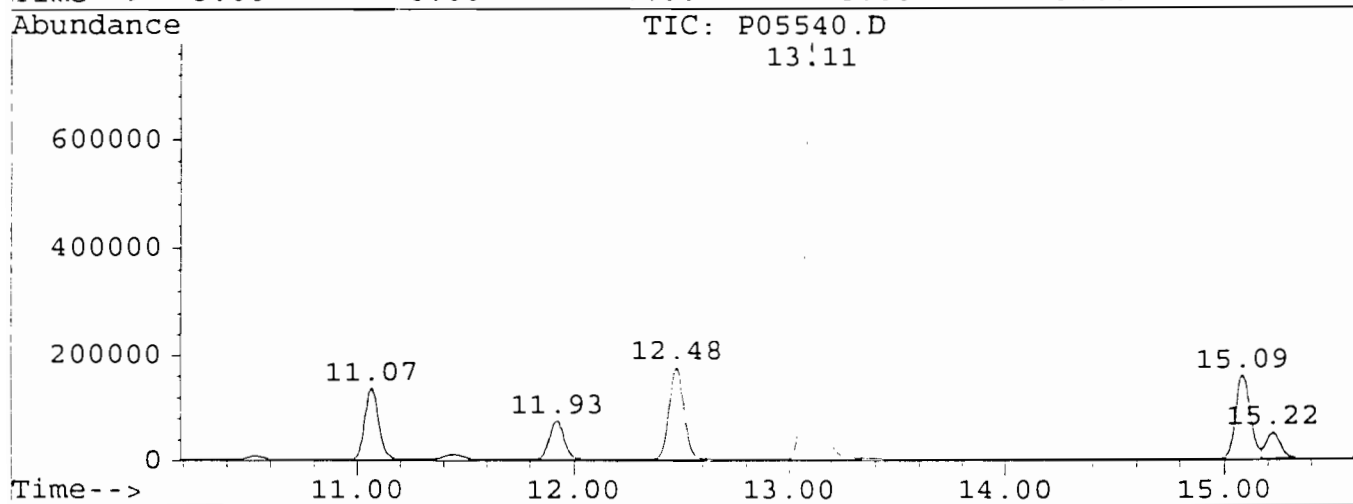
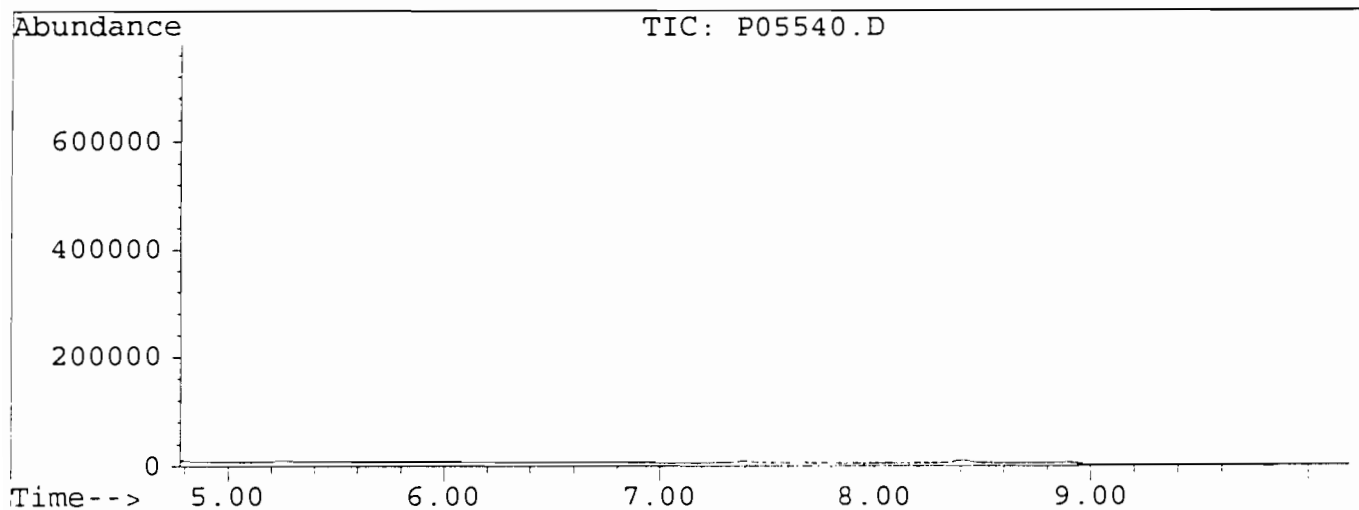
Title : VOA CLP WATER METHOD

Last Update : Thu Jan 16 09:32:21 1997

Response via : Single Level Calibration



File : S:\MS\HP#3\JAN97\P05540.D
Operator : GLENN
Acquired : 30 Jan 97 13:54 using AcqMethod CLPW
Instrument : 5970 - In
Sample Name: 9702037DL 1:25
Misc Info : B60220DL 1:25 H5970-3 1/30/97 5.0ML
Vial Number: 4



Quantitation Report

Data File : S:\MS\HP#3\JAN97\P05540.D Vial: 4
 Acq On : 30 Jan 97 13:54 Operator: GLENN
 Sample : 9702037DL 1:25 Inst : 5970 - In
 Misc : B60220DL 1:25 H5970-3 1/30/97 5.0ML Multiplr: 1.00
 Quant Time: Feb 13 17:02 1997

Method : C:\HPCHEM\1\METHODS\CLPW.M
 Title : VOA CLP WATER METHOD
 Last Update : Thu Jan 30 12:38:50 1997
 Response via : Continuing Cal File: C:\HPCHEM\1\DATA\P05537.D

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	11.08	128	79675	50.00	UG/L	0.00
21) 1,4-Difluorobenzene	12.48	114	303278	50.00	UG/L	0.00
33) Chlorobenzene-d5	17.74	117	259232	50.00	UG/L	-0.02
System Monitoring Compounds						%Recovery
18) 1,2-Dichloroethane-d4	11.93	65	131846	51.72	UG/L	103.44%
34) Toluene-d8	15.09	98	256033	48.83	UG/L	97.65%
43) Bromofluorobenzene	19.91	95	255084	49.93	UG/L	99.86%
Target Compounds						Qvalue
8) Acetone	7.39	43	11471	19.22	UG/L	89
9) Methylene Chloride	8.41	84	5294	1.83	UG/L	89
14) cis-,1,2-Dichloroethene	10.52	96	7154	2.27	UG/L	89
15) 1,2-Dichloroethene (total)	10.52	96	7730m	2.34	UG/L	76
22) 1,1,1-Trichloroethane	11.45	97	18352	2.56	UG/L	97
24) Trichloroethene	13.11	130	582695	154.23	UG/L	94
36) Toluene	15.22	91	82619	12.64	UG/L	94
37) Tetrachloroethene	16.36	164	8447	2.17	UG/L	93

2/13/97

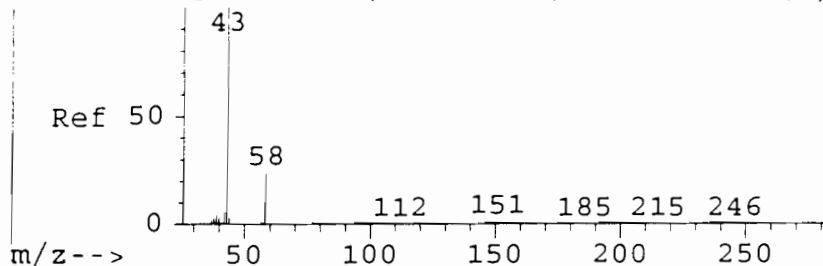
Library Search Compound Report

Data File : S:\MS\HP#3\JAN97\P05540.D Vial: 4
Acq On : 30 Jan 97 13:54 Operator: GLENN
Sample : 9702037DL 1:25 Inst : 5970 - In
Misc : B60220DL 1:25 H5970-3 1/30/97 5.0ML Multiplr: 1.00

Method : S:\MS\HP#3\JAN97\CLPW.M
Title : VOA CLP WATER METHOD
Library : NBS75K.L

No Library Search Compounds Detected

AbundanceScan 482 (7.534 min): P05322.D (-,



#8

Acetone

Concen: 19.22 UG/L

RT: 7.39 min Scan# 457

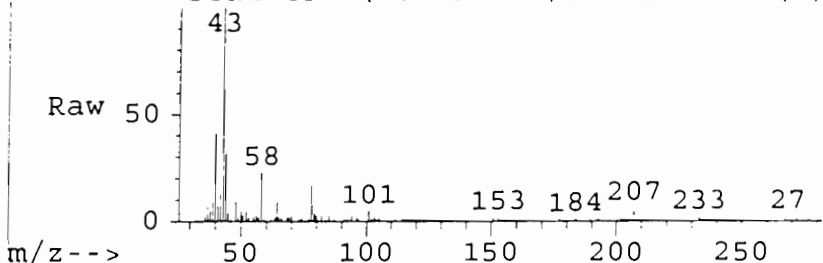
Delta R.T. -0.04 min

Lab File: P05540.D

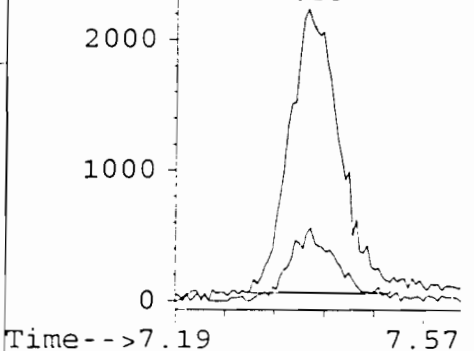
Acq: 30 Jan 97 1:54 pm

Tgt Ion:	43	Resp:	11471
Ion	Ratio	Lower	Upper
43	100		
58	24.0	9.7	49.7
0	0.0	0.0	0.0
0	0.0	0.0	0.0

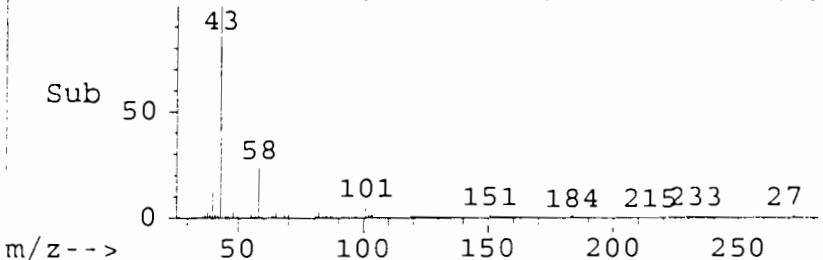
AbundanceScan 457 (7.389 min): P05540.D (*)



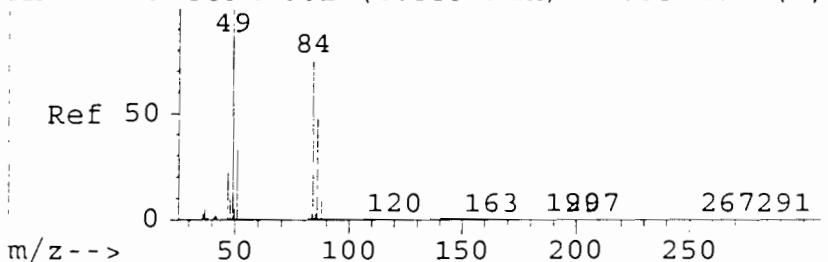
AbundanceIon 43.00 (42.
Ion 58.00 (57.
7.39



AbundanceScan 457 (7.389 min): P05540.D (-,



AbundanceScan 661 (8.559 min): P05322.D (-,



#9

Methylene Chloride

Concen: 1.83 UG/L

RT: 8.41 min Scan# 635

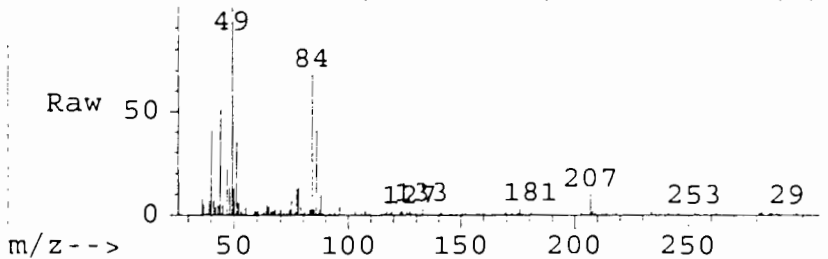
Delta R.T. -0.04 min

Lab File: P05540.D

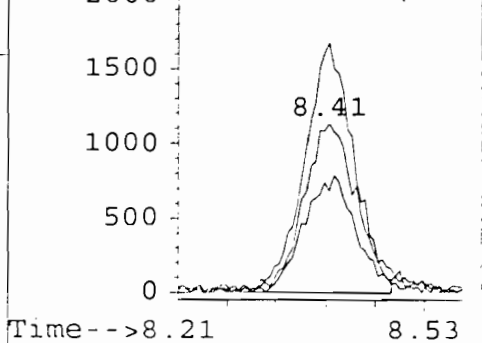
Acq: 30 Jan 97 1:54 pm

Tgt Ion:	84	Resp:	5294
Ion	Ratio	Lower	Upper
84	100		
49	145.5	113.6	153.6
86	58.4	48.1	88.1
0	0.0	0.0	0.0

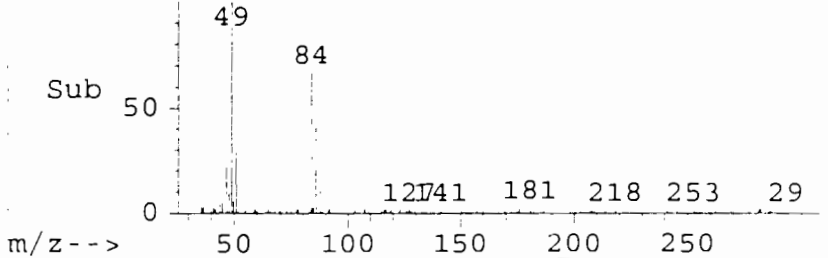
AbundanceScan 635 (8.408 min): P05540.D (*)



AbundanceIon 84.00 (83.
Ion 49.00 (48.
Ion 86.00 (85.



AbundanceScan 635 (8.408 min): P05540.D (-,



Sample Name: 9702037DL 1:25

Misc. Info: B60220DL 1:25 H5970-3 1/30/97

P05540.D CLPW.M

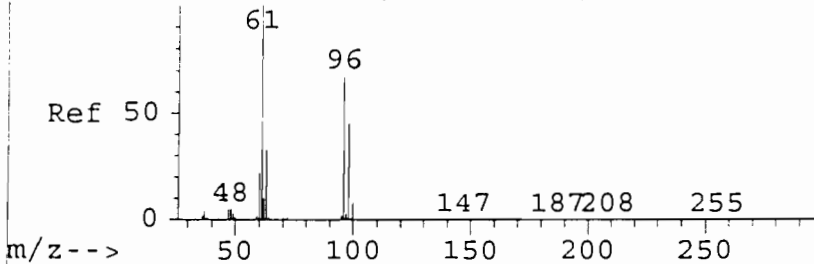
Thu Feb 13 17:03:02 1997

5.0ML

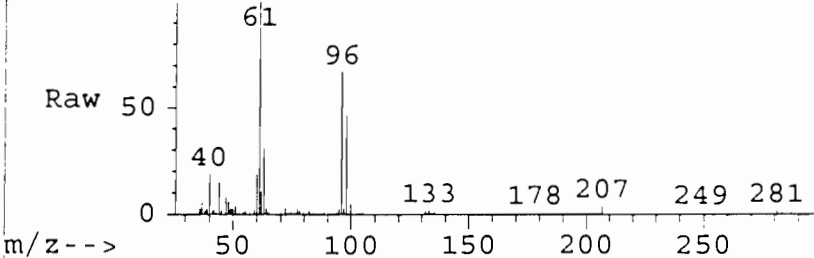
JON

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Page 3

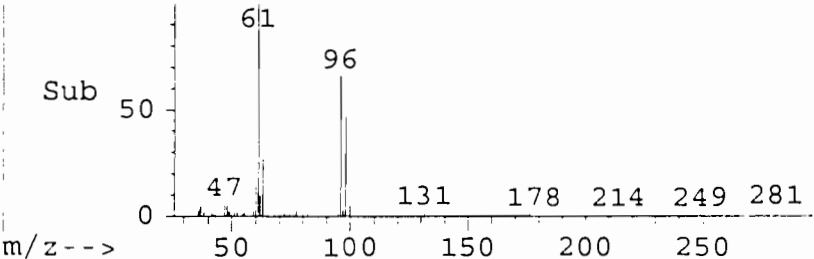
AbundanceScan 1032 (10.682 min): P05322.D (



AbundanceScan 1004 (10.520 min): P05540.D (



AbundanceScan 1004 (10.520 min): P05540.D (



#14

cis-,1,2-Dichloroethene

Concen: 2.27 UG/L

RT: 10.52 min Scan# 1004

Delta R.T. -0.03 min

Lab File: P05540.D

Acq: 30 Jan 97 1:54 pm

Tgt Ion:95.85 Resp: 7154

Ion Ratio Lower Upper

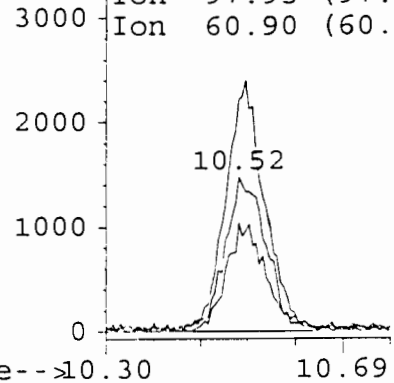
96 100

98 65.9 53.1 79.6

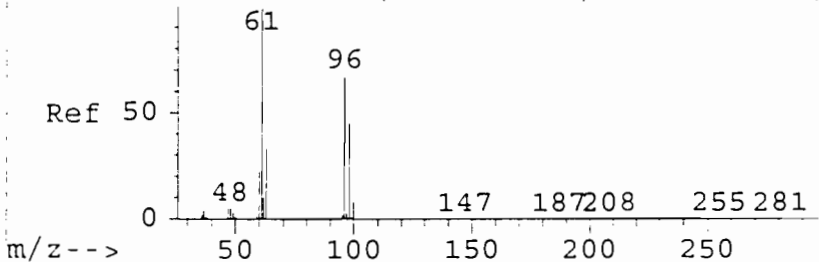
61 150.1 105.0 157.5

0 0.0 0.0 0.0

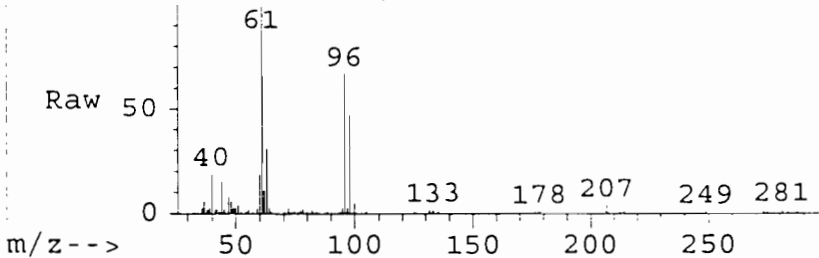
Abundance Ion 95.85 (95.
Ion 97.95 (97.
Ion 60.90 (60.



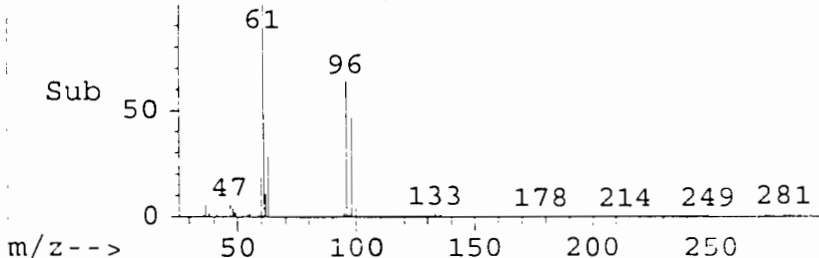
AbundanceScan 1032 (10.682 min): P05322.D (



AbundanceScan 1004 (10.520 min): P05540.D (



AbundanceScan 1004 (10.520 min): P05540.D (



#15

1,2-Dichloroethene (total)

Concen: 2.34 UG/L m

RT: 10.52 min Scan# 1004

Delta R.T. 1.59 min

Lab File: P05540.D

Acq: 30 Jan 97 1:54 pm

Tgt Ion:96 Resp: 7730

Ion Ratio Lower Upper

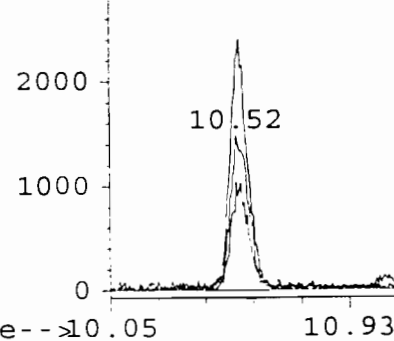
96 100

61 150.3 111.6 151.6

98 70.4 44.6 84.6

0 0.0 0.0 0.0

Abundance Ion 96.00 (95.
Ion 61.00 (60.
Ion 98.00 (97.



Sample Name: 9702037DL 1:25

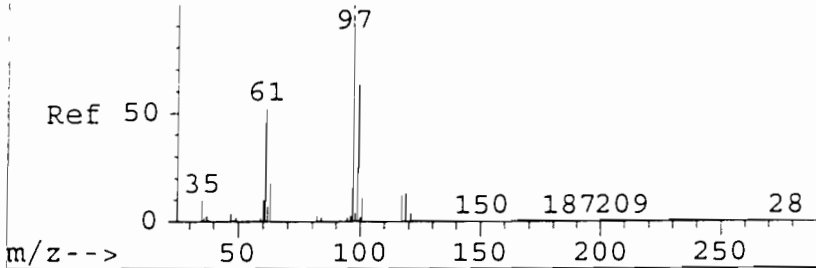
Misc. Info: B60220DL 1:25 H5970-3 1/30/97 5.0ML

P05540.D CLPW.M Thu Feb 13 17:03:09 1997

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AbundanceScan 1193 (11.604 min): P05322.D (



#22

1,1,1-Trichloroethane

Concen: 2.56 UG/L

RT: 11.45 min Scan# 1166

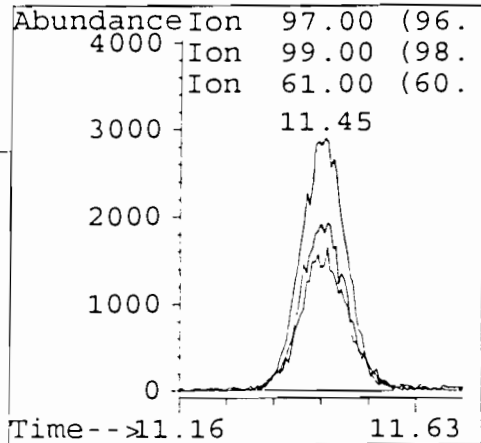
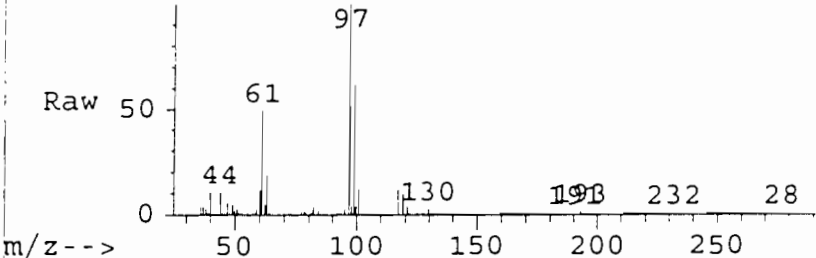
Delta R.T. -0.01 min

Lab File: P05540.D

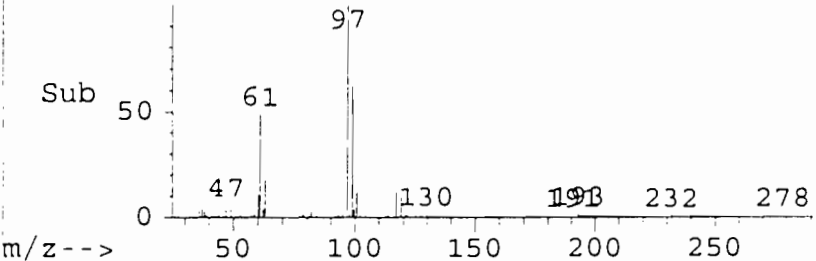
Acq: 30 Jan 97 1:54 pm

Tgt Ion: 97	Resp: 18352
Ion Ratio	Lower Upper
97 100	
99 62.4	46.6 86.6
61 48.1	27.5 67.5
0 0.0	0.0 0.0

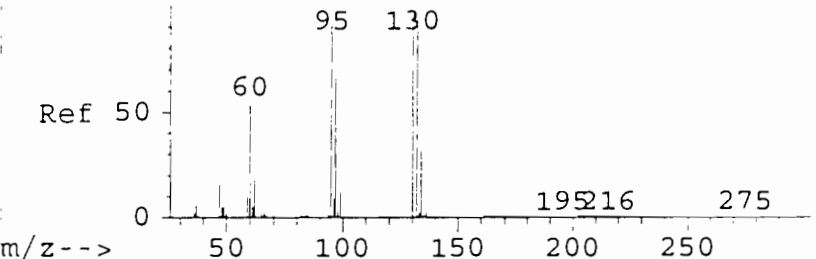
AbundanceScan 1166 (11.447 min): P05540.D (



AbundanceScan 1166 (11.447 min): P05540.D (



AbundanceScan 1484 (13.269 min): P05322.D (



#24

Trichloroethene

Concen: 154.23 UG/L

RT: 13.11 min Scan# 1457

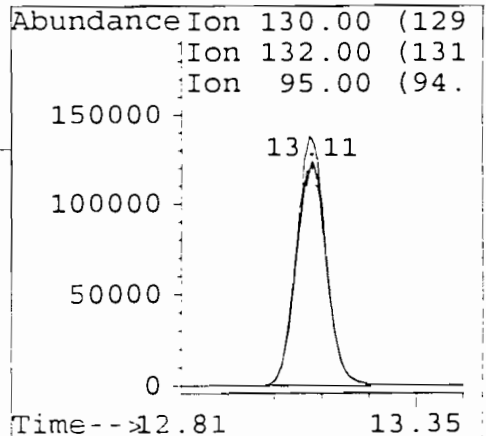
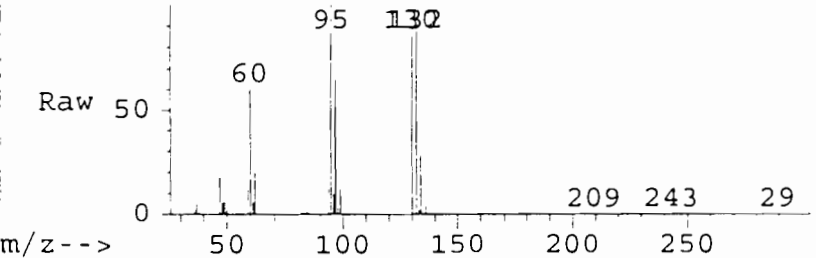
Delta R.T. -0.00 min

Lab File: P05540.D

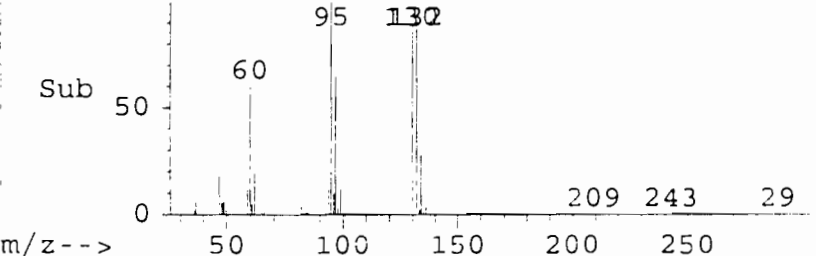
Acq: 30 Jan 97 1:54 pm

Tgt Ion: 130	Resp: 582695
Ion Ratio	Lower Upper
130 100	
132 101.4	82.0 122.0
95 111.4	80.0 120.0
0 0.0	0.0 0.0

AbundanceScan 1457 (13.113 min): P05540.D (



AbundanceScan 1457 (13.113 min): P05540.D (



Sample Name: 9702037DL 1:25

Misc. Info: B60220DL 1:25 H5970-3 1/30/97 5.0ML

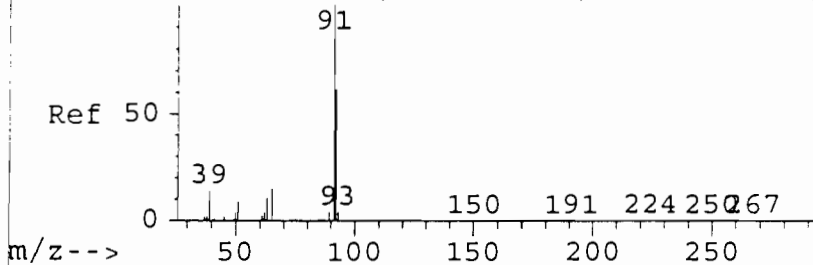
P05540.D CLPW.M

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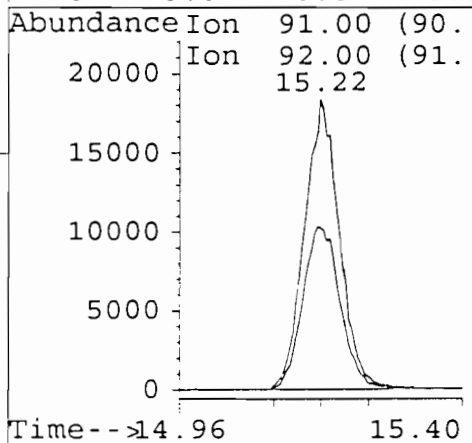
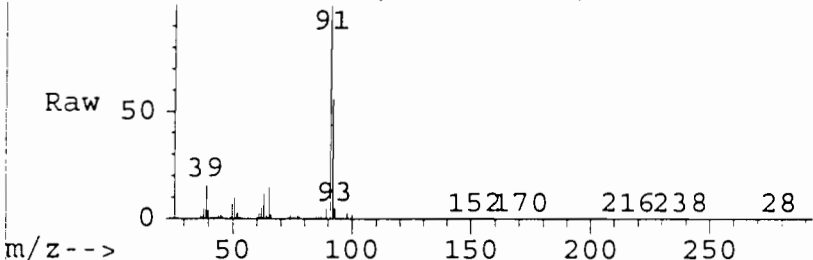
AbundanceScan 1855 (15.393 min): P05322.D (



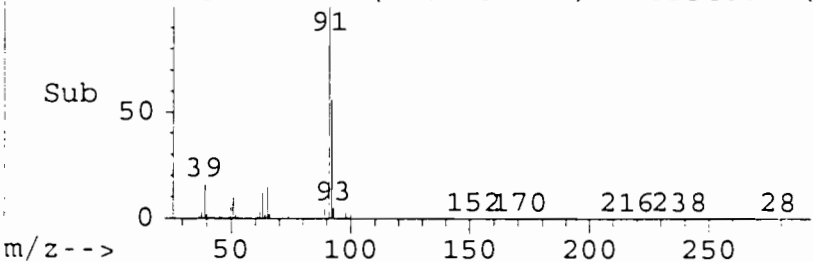
#36
Toluene
Concen: 12.64 UG/L
RT: 15.22 min Scan# 1826
Delta R.T. -0.00 min
Lab File: P05540.D
Acq: 30 Jan 97 1:54 pm

Tgt Ion:91	Resp:	82619
Ion Ratio	Lower	Upper
91 100		
92 55.6	40.1	80.1
0 0.0	0.0	0.0
0 0.0	0.0	0.0

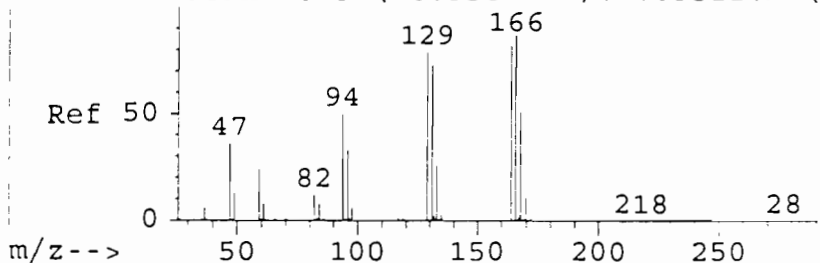
AbundanceScan 1826 (15.225 min): P05540.D (



AbundanceScan 1826 (15.225 min): P05540.D (



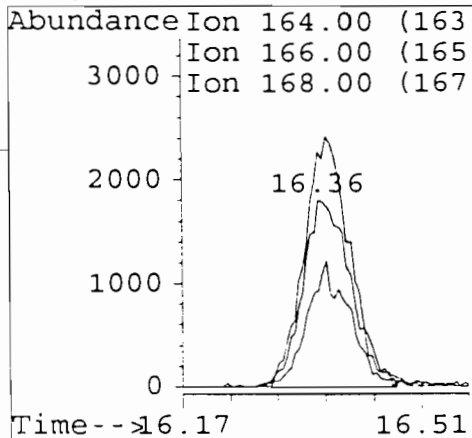
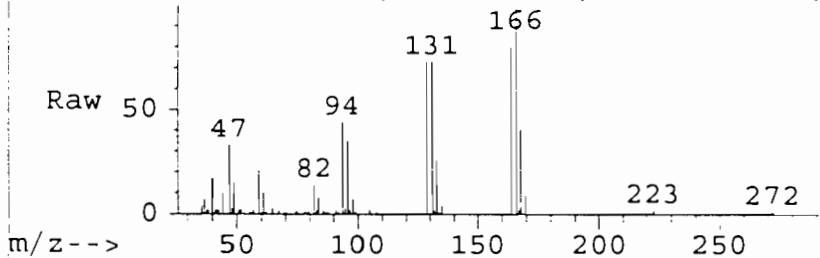
AbundanceScan 2055 (16.538 min): P05322.D (



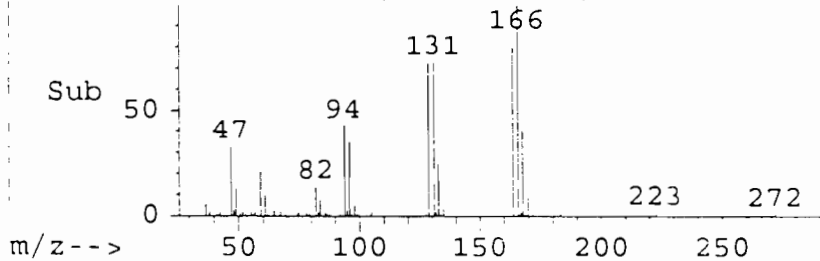
#37
Tetrachloroethene
Concen: 2.17 UG/L
RT: 16.36 min Scan# 2025
Delta R.T. -0.03 min
Lab File: P05540.D
Acq: 30 Jan 97 1:54 pm

Tgt Ion:164	Resp:	8447
Ion Ratio	Lower	Upper
164 100		
166 125.5	109.5	149.5
168 51.5	42.4	82.4
0 0.0	0.0	0.0

AbundanceScan 2025 (16.364 min): P05540.D (



AbundanceScan 2025 (16.364 min): P05540.D (



Sample Name: 9702037DL 1:25

Misc. Info: B60220DL 1:25 H5970-3 1/30/97

P05540.D CLPW.M

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5.0ML

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1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B60221

Lab Name: H2M LABS INC. Contract: _____
 Lab Code: _____ Case No.: RA096 SAS No.: _____ SDG No.: NDEC012
 Matrix: (soil/water) WATER Lab Sample ID: 9702038
 Sample wt/vol: 5.0 (g/ml) ML Lab File ID: P05530.D
 Level: (low/med) LOW Date Received: 01/23/97
 % Moisture: not dec. _____ Date Analyzed: 01/29/97
 GC Column: RTX502. ID: 0.53 (mm) Dilution Factor: 1.0
 Soil Extract Volume _____ (uL) Soil Aliquot Volume: _____ (uL)

A66P-02
(66'-70')

CONCENTRATION UNITS:

CAS NO. COMPOUND (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	1	J
67-64-1	Acetone	130	
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	10	U
75-34-4	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	4	J
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	17	
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-Dichloropropene	10	U
79-01-6	Trichloroethene	500	E
71-43-2	Benzene	10	U
124-48-1	Dibromochloromethane	10	U
10061-02-6	trans-1,3-Dichloropropene	10	U
79-00-5	1,1,2-Trichloroethane	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	17	
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	37	
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Xylene (total)	10	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

B60221

Lab Name: H2M LABS INC. Contract: _____
Lab Code: _____ Case No.: RA096 SAS No.: _____ SDG No.: NDEC012
Matrix: (soil/water) WATER Lab Sample ID: 9702038
Sample wt/vol: 5.0 (g/ml) ML Lab File ID: P05530.D
Level: (low/med) LOW Date Received: 01/23/97
% Moisture: not dec. _____ Date Analyzed: 01/29/97
GC Column: RTX502. ID: 0.53 (mm) Dilution Factor: 1.0
Soil Extract Volume _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

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

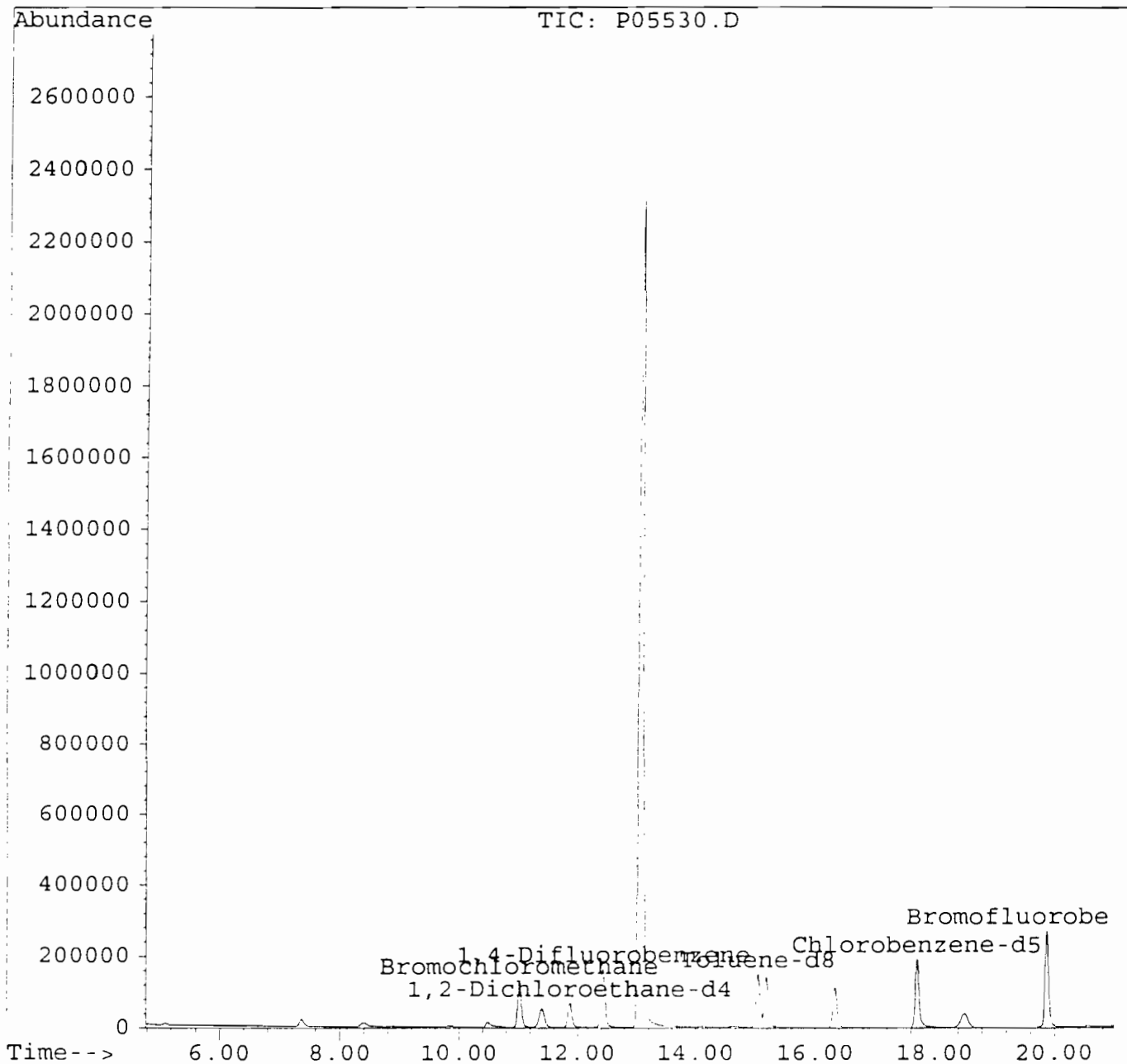
Number TICs found: 1

CAS NO.	COMPOUND	RT	EST. CONC.	Q
1.	unknown	18.50	10	J

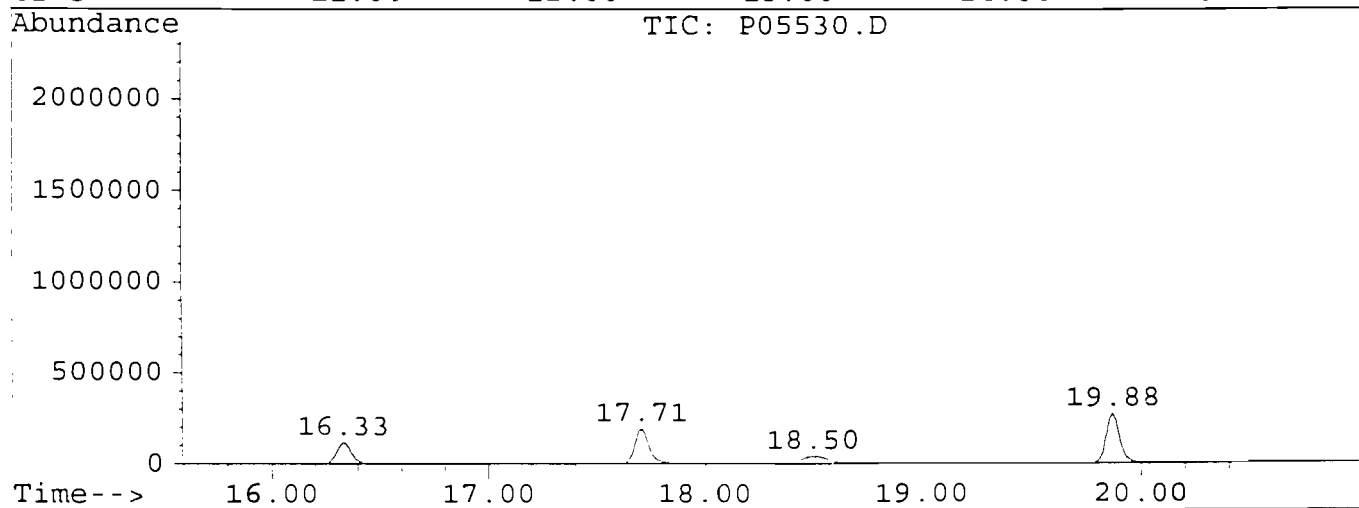
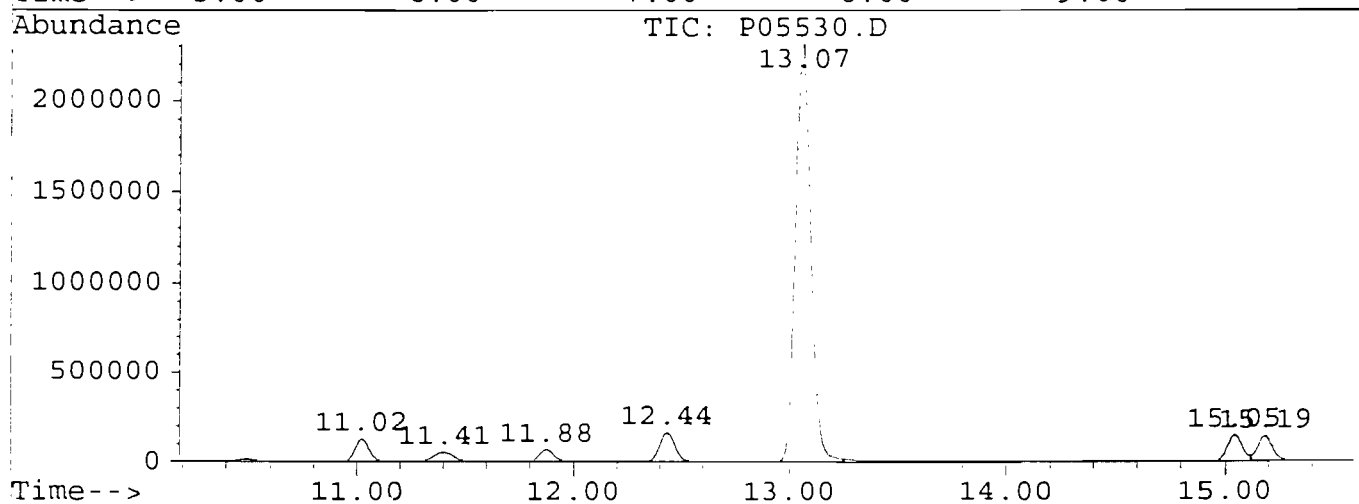
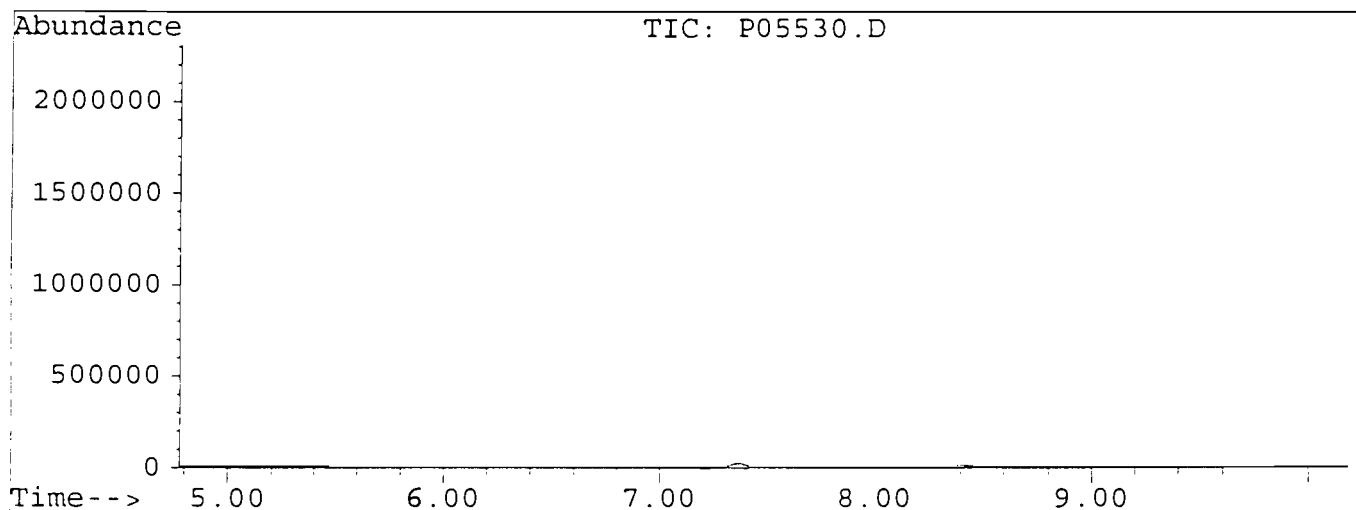
Quantitation Report

Data File : S:\MS\HP#3\JAN97\P05530.D Vial: 12
 Acq On : 29 Jan 97 7:14 pm Operator: GLENN
 Sample : 9702038 Inst : 5970 - In
 Misc : B60221 H5970-3 1/29/97 5.0ML 10UL AN Multiplr: 1.00
 Quant Time: Feb 11 18:05 1997

Method : S:\MS\HP#3\JAN97\CLPW.M
 Title : VOA CLP WATER METHOD
 Last Update : Thu Jan 16 09:32:21 1997
 Response via : Single Level Calibration



File : S:\MS\HP#3\JAN97\P05530.D
Operator : GLENN
Acquired : 29 Jan 97 19:14 using AcqMethod CLPW
Instrument : 5970 - In
Sample Name: 9702038
Misc Info : B60221 H5970-3 1/29/97 5.0ML 10UL ANTIFO
Vial Number: 12



V 0121

Quantitation Report

Data File : S:\MS\HP#3\JAN97\P05530.D
 Acq On : 29 Jan 97 19:14
 Sample : 9702038
 Misc : B60221 H5970-3 1/29/97 5.0ML 10UL AN
 Quant Time: Feb 11 18:05 1997

Vial: 12
 Operator: GLENN
 Inst : 5970 - In
 Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\CLPW.M
 Title : VOA CLP WATER METHOD
 Last Update : Wed Jan 29 14:26:15 1997
 Response via : Continuing Cal File: C:\HPCHEM\1\DATA\P05519.D

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	11.02	128	75310	50.00	UG/L	-0.03
21) 1,4-Difluorobenzene	12.43	114	287337	50.00	UG/L	-0.04
33) Chlorobenzene-d5	17.70	117	237635	50.00	UG/L	-0.03
System Monitoring Compounds						
						%Recovery
18) 1,2-Dichloroethane-d4	11.88	65	120293	56.71	UG/L	113.42%
34) Toluene-d8	15.05	98	236865	48.09	UG/L	96.19%
43) Bromofluorobenzene	19.87	95	230075	52.02	UG/L	104.04%
Target Compounds						
						Qvalue
8) Acetone	7.36	43	67372	127.42	UG/L	91
9) Methylene Chloride	8.37	84	3135	1.15	UG/L	90
14) cis-,1,2-Dichloroethene	10.49	96	11539	3.47	UG/L	90
15) 1,2-Dichloroethene (total)	10.49	96	12352m	3.75	UG/L	16
22) 1,1,1-Trichloroethane	11.41	97	100878	16.73	UG/L	94
24) Trichloroethene	13.07	130	1801633	498.17	UG/L	96
36) Toluene	15.19	91	239388	37.44	UG/L	100
37) Tetrachloroethene	16.33	164	64310	17.28	UG/L	95

S 2/13/97

Tentatively Identified Compound (LSC) summary

Operator ID: GLENN Date Acquired: 29 Jan 97 19:14

Data File: S:\MS\HP#3\JAN97\P05530.D

Name: 9702038

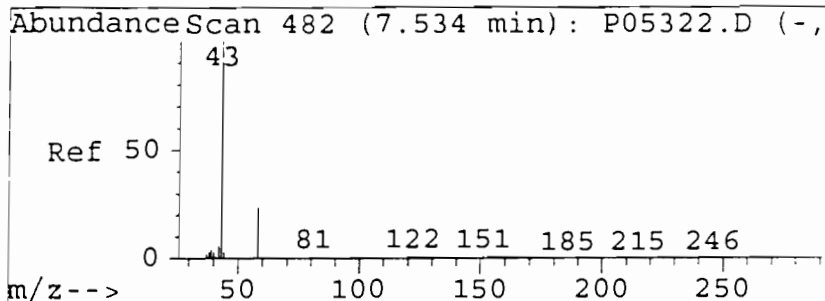
Misc: B60221 H5970-3 1/29/97 5.0ML 10UL ANTIFO

Method: CLPW

Title: VOA CLP WATER METHOD

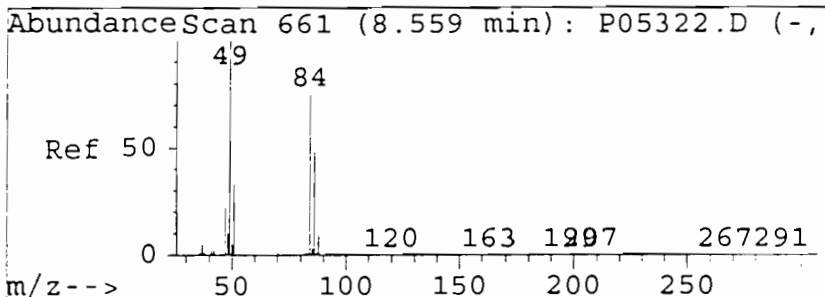
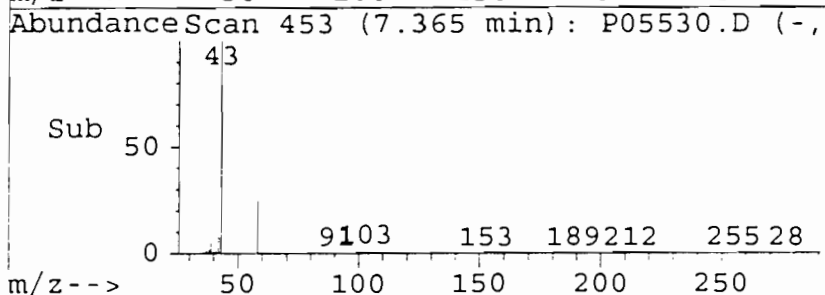
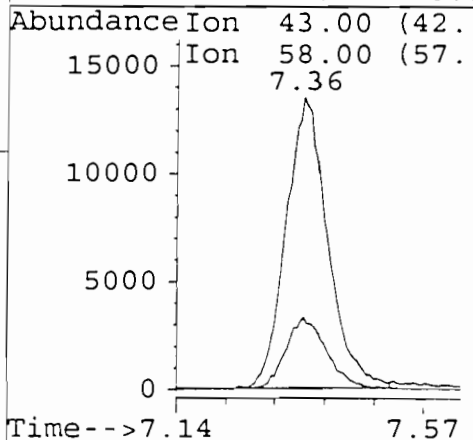
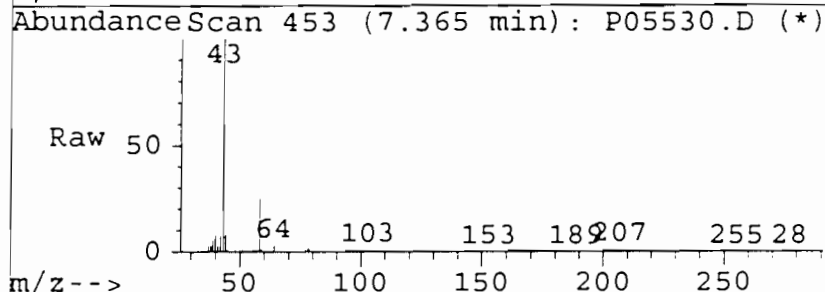
Library Searched: NBS75K.L

TIC Top Hit name	RT	EstConc Units	Area	IntStd	ISRT	ISArea	ISConc
Cyclotetrasiloxane,	18.50	9.5 UG/L	165867	ISTD03	17.70	870499	50.0



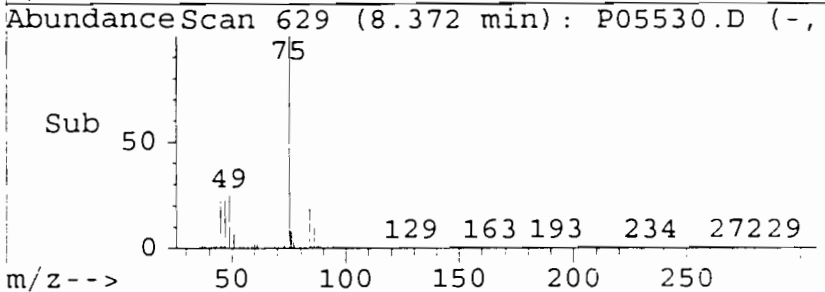
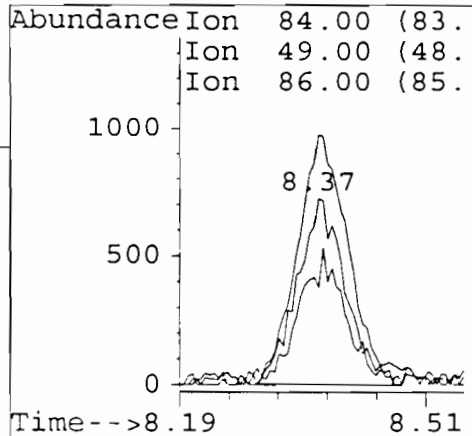
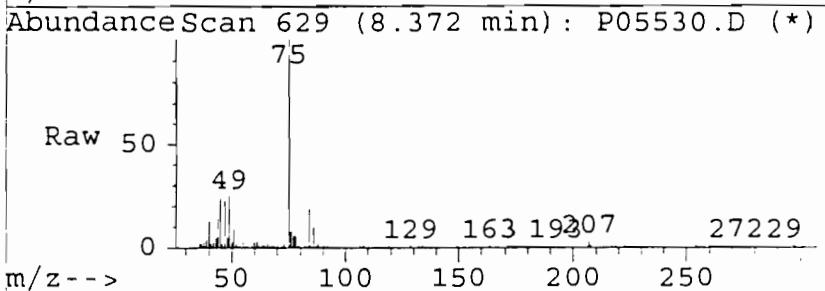
#8
Acetone
Concen: 127.42 UG/L
RT: 7.36 min Scan# 453
Delta R.T. -0.03 min
Lab File: P05530.D
Acq: 29 Jan 97 7:14 pm

Tgt	Ion:43	Resp:	67372
Ion	Ratio	Lower	Upper
43	100		
58	24.6	9.7	49.7
0	0.0	0.0	0.0
0	0.0	0.0	0.0



#9
Methylene Chloride
Concen: 1.15 UG/L
RT: 8.37 min Scan# 629
Delta R.T. -0.04 min
Lab File: P05530.D
Acq: 29 Jan 97 7:14 pm

Tgt	Ion:84	Resp:	3135
Ion	Ratio	Lower	Upper
84	100		
49	127.8	113.6	153.6
86	52.1	48.1	88.1
0	0.0	0.0	0.0

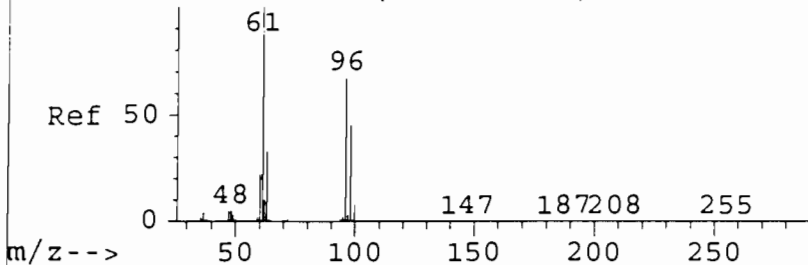


Sample Name: 9702038

Misc. Info: B60221 H5970-3 1/29/97 5.0ML 10UL ANTIFO
P05530.D CLPW.M Wed Feb 12 16:02:32 1997 JON

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AbundanceScan 1032 (10.682 min): P05322.D (

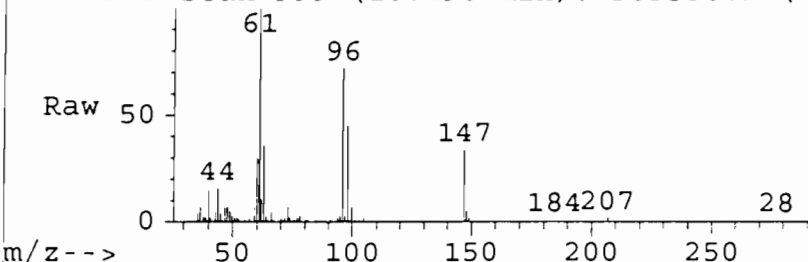


#14

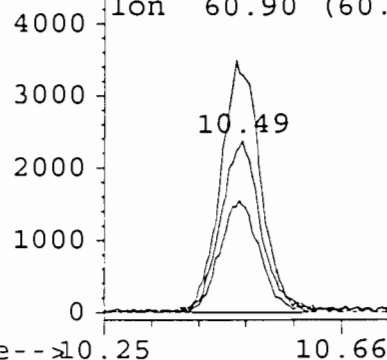
cis-,1,2-Dichloroethene
Concen: 3.47 UG/L
RT: 10.49 min Scan# 999
Delta R.T. -0.03 min
Lab File: P05530.D
Acq: 29 Jan 97 7:14 pm

Tgt Ion:	95.85	Resp:	11539
Ion	Ratio	Lower	Upper
96	100		
98	64.3	53.1	79.6
61	146.9	105.0	157.5
0	0.0	0.0	0.0

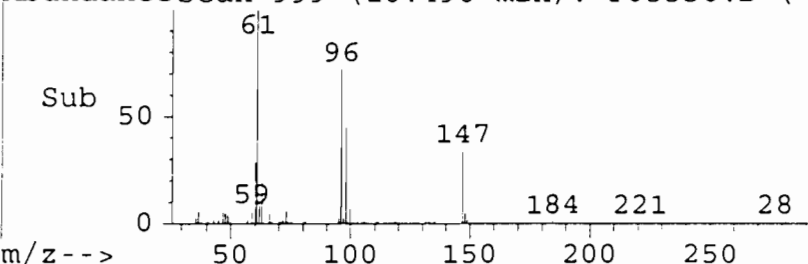
AbundanceScan 999 (10.490 min): P05530.D (*)



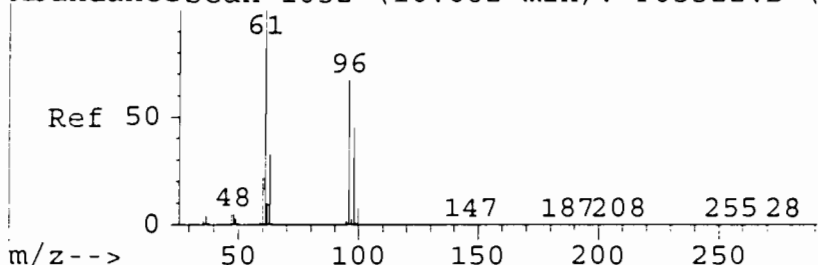
Abundance	Ion	95.85	(95.
	Ion	97.95	(97.
	Ion	60.90	(60.



AbundanceScan 999 (10.490 min): P05530.D (-



AbundanceScan 1032 (10.682 min): P05322.D (

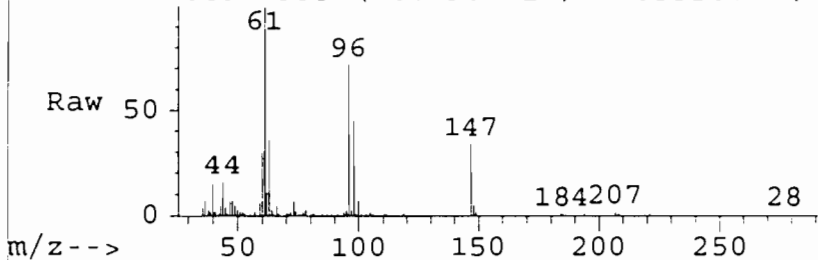


#15

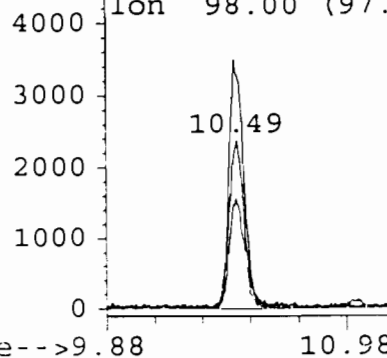
1,2-Dichloroethene (total)
Concen: 3.75 UG/L m
RT: 10.49 min Scan# 999
Delta R.T. 1.61 min
Lab File: P05530.D
Acq: 29 Jan 97 7:14 pm

Tgt Ion:	96	Resp:	12352
Ion	Ratio	Lower	Upper
96	100		
61	138.1	111.6	151.6
98	62.6	44.6	84.6
0	0.0	0.0	0.0

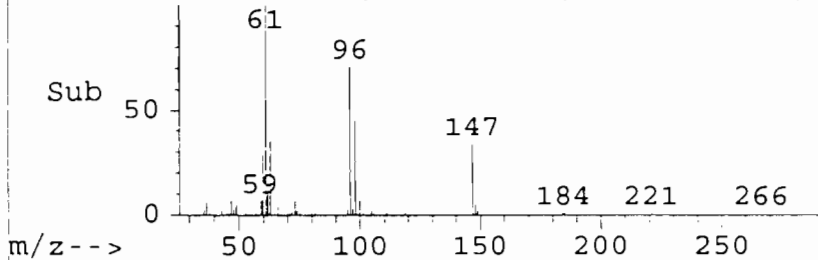
AbundanceScan 999 (10.490 min): P05530.D (*)



Abundance	Ion	96.00	(95.
	Ion	61.00	(60.
	Ion	98.00	(97.



AbundanceScan 999 (10.490 min): P05530.D (-



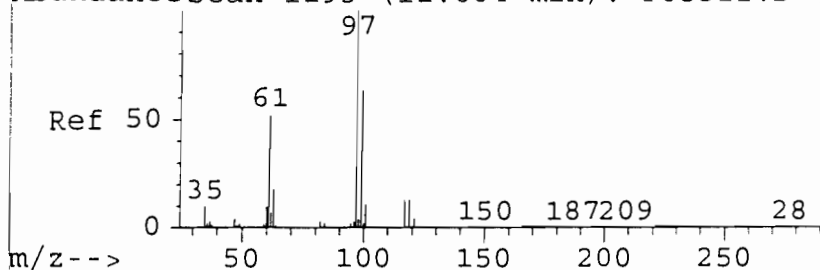
Sample Name: 9702038

Misc. Info: B60221 H5970-3 1/29/97 5.0ML 10UL ANTIFO
P05530.D CLPW.M Wed Feb 12 16:02:37 1997 JON

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AbundanceScan 1193 (11.604 min): P05322.D (



#22

1,1,1-Trichloroethane

Concen: 16.73 UG/L

RT: 11.41 min Scan# 1159

Delta R.T. -0.03 min

Lab File: P05530.D

Acq: 29 Jan 97 7:14 pm

Tgt Ion:97 Resp: 100878

Ion Ratio Lower Upper

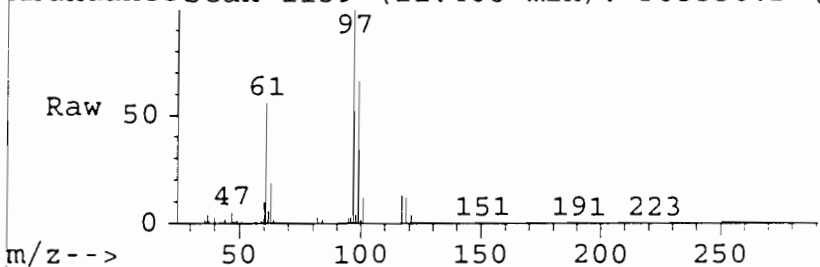
97 100

99 65.9 46.6 86.6

61 56.4 27.5 67.5

0 0.0 0.0 0.0

AbundanceScan 1159 (11.406 min): P05530.D (



AbundanceIon 97.00 (96.

20000 Ion 99.00 (98.

Ion 61.00 (60.

11.41

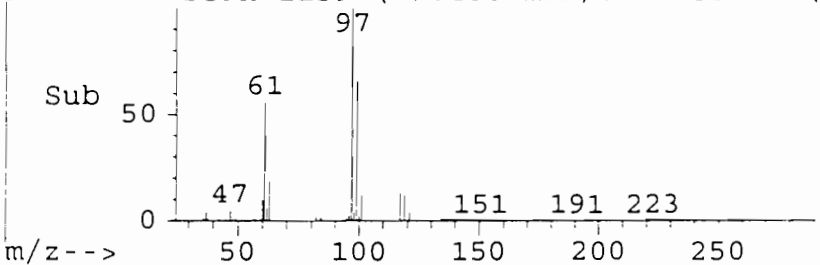
15000

10000

5000

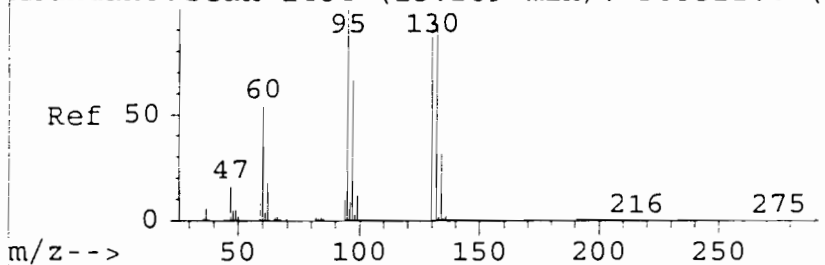
0

AbundanceScan 1159 (11.406 min): P05530.D (



Time-->11.02 11.68

AbundanceScan 1484 (13.269 min): P05322.D (



#24

Trichloroethene

Concen: 498.17 UG/L

RT: 13.07 min Scan# 1450

Delta R.T. -0.03 min

Lab File: P05530.D

Acq: 29 Jan 97 7:14 pm

Tgt Ion:130 Resp: 1801633

Ion Ratio Lower Upper

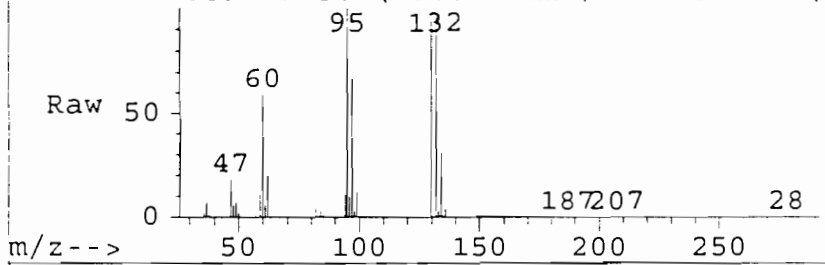
130 100

132 102.8 82.0 122.0

95 106.7 80.0 120.0

0 0.0 0.0 0.0

AbundanceScan 1450 (13.071 min): P05530.D (



AbundanceIon 130.00 (129

Ion 132.00 (131

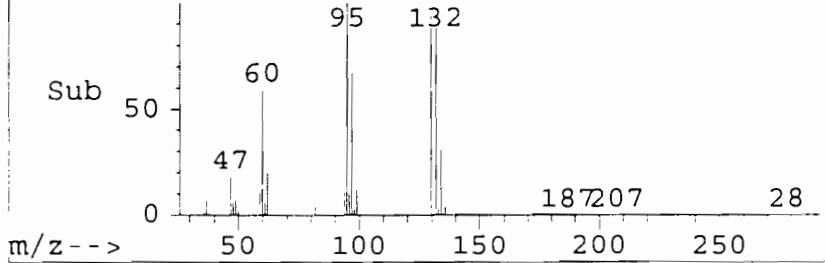
Ion 95.00 (94.

400000

200000

0

AbundanceScan 1450 (13.071 min): P05530.D (



Time-->12.76 13.31

Sample Name: 9702038

Misc. Info: B60221 H5970-3 1/29/97 5.0ML 10UL ANTIFO

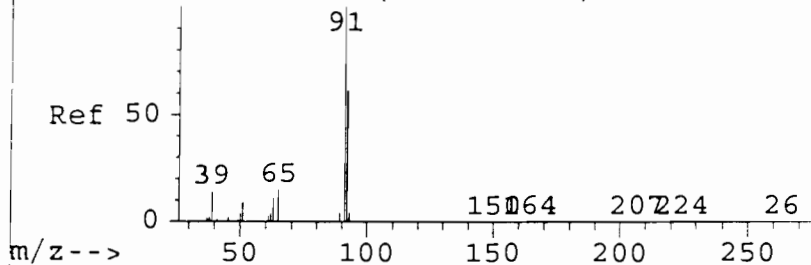
P05530.D CLPW.M Wed Feb 12 16:02:42 1997

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Page 5

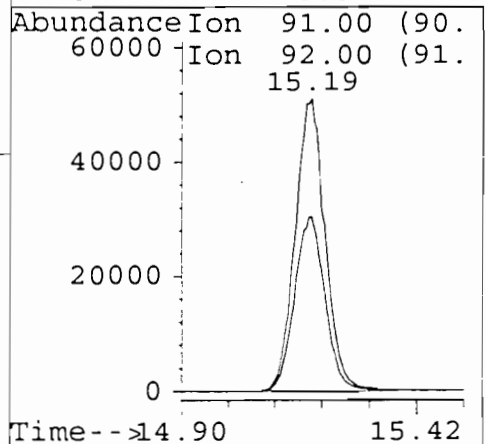
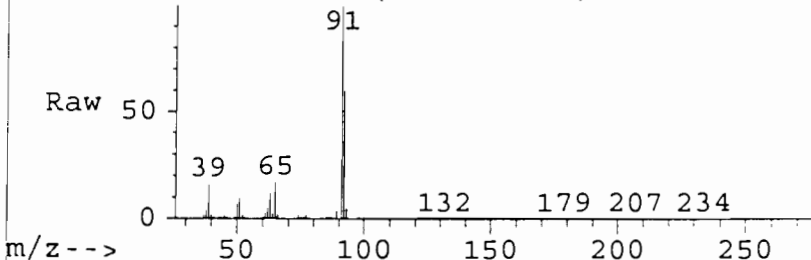
AbundanceScan 1855 (15.393 min): P05322.D (



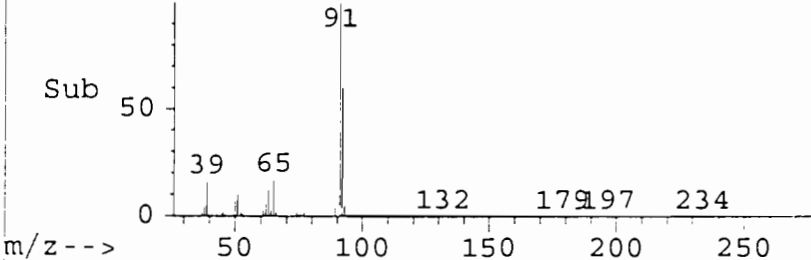
#36
Toluene
Concen: 37.44 UG/L
RT: 15.19 min Scan# 1820
Delta R.T. -0.03 min
Lab File: P05530.D
Acq: 29 Jan 97 7:14 pm

Tgt Ion:	91	Resp:	239388
Ion	Ratio	Lower	Upper
91	100		
92	59.7	40.1	80.1
0	0.0	0.0	0.0
0	0.0	0.0	0.0

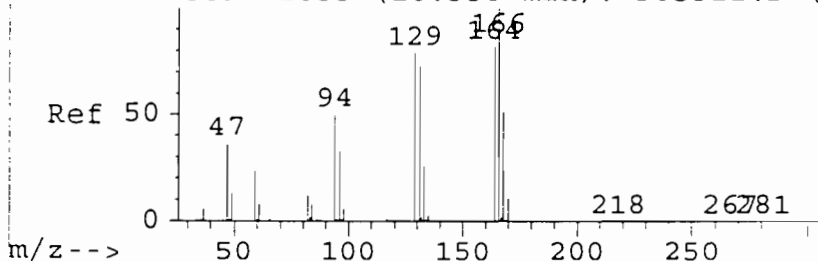
AbundanceScan 1820 (15.189 min): P05530.D (



AbundanceScan 1820 (15.189 min): P05530.D (



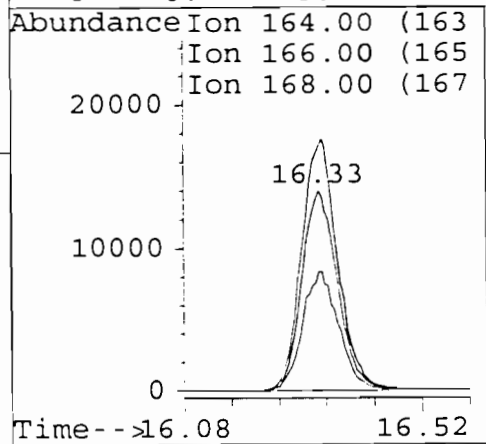
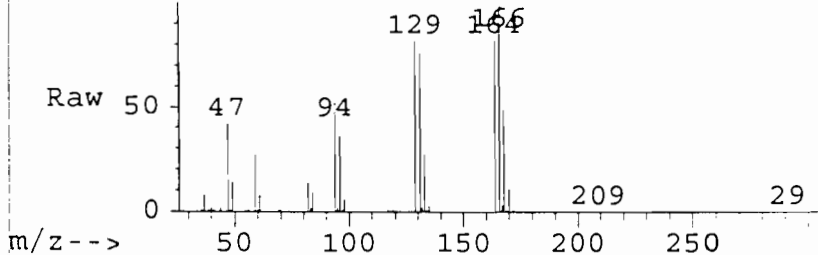
AbundanceScan 2055 (16.538 min): P05322.D (



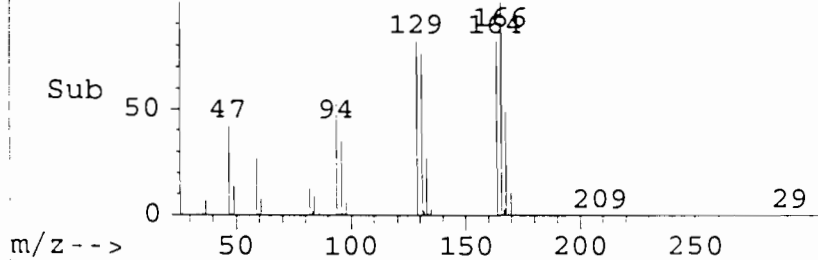
#37
Tetrachloroethene
Concen: 17.28 UG/L
RT: 16.33 min Scan# 2020
Delta R.T. -0.03 min
Lab File: P05530.D
Acq: 29 Jan 97 7:14 pm

Tgt Ion:	164	Resp:	64310
Ion	Ratio	Lower	Upper
164	100		
166	122.1	109.5	149.5
168	60.0	42.4	82.4
0	0.0	0.0	0.0

AbundanceScan 2020 (16.334 min): P05530.D (



AbundanceScan 2020 (16.334 min): P05530.D (



Library Search Compound Report

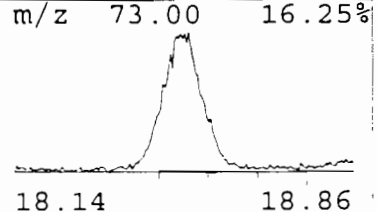
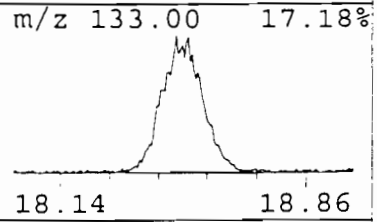
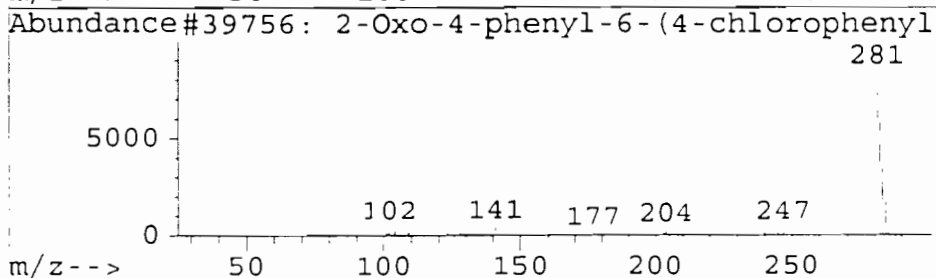
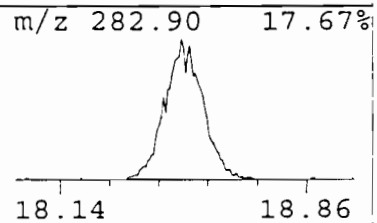
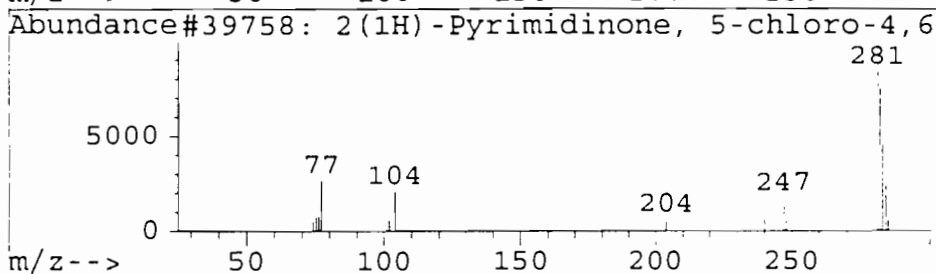
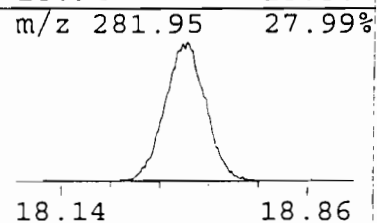
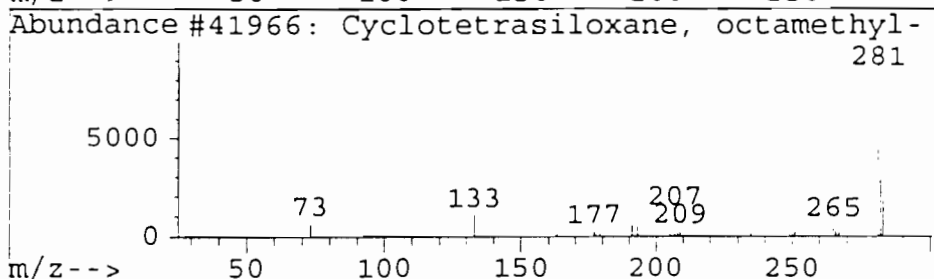
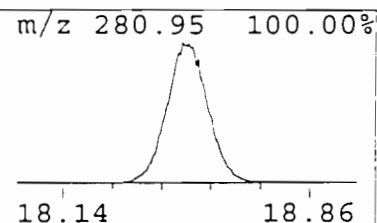
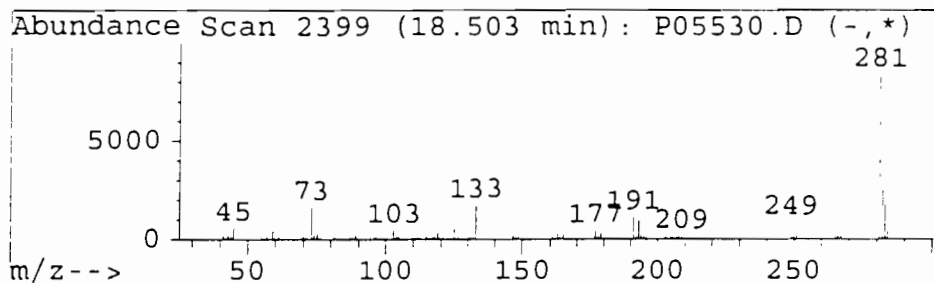
Data File : S:\MS\HP#3\JAN97\P05530.D
Acq On : 29 Jan 97 19:14
Sample : 9702038
Misc : B60221 H5970-3 1/29/97 5.0ML 10UL AN Multiplr: 1.00

Vial: 12
Operator: GLENN
Inst : 5970 - In
Multiplr: 1.00

Method : S:\MS\HP#3\JAN97\CLPW.M
Title : VOA CLP WATER METHOD
Library : C:\DATABASE\NBS75K.L

R.T.	Conc	Area	Relative to ISTD	R.T.
18.50	9.53 UG/L	165867	Chlorobenzene-d5	17.70

Hit# of 10	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclotetrasiloxane, octamethyl-	296	C8H24O4Si4	000556-67-2	10
2	2(1H)-Pyrimidinone, 5-chloro-4,6-di	282	C16H11ClN2O	028567-83-1	9
3	2-Oxo-4-phenyl-6-(4-chlorophenyl)-1	282	C16H11ClN2O	000000-00-0	9
4	Benzene, 1-phenyl-4-(2-cyano-2-phen	281	C21H15N	027869-56-3	9
5	3',6-Dimethoxyaurone	282	C17H14O4	077764-84-2	5



V C12S

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B60221DL

Lab Name: H2M LABS INC. Contract: _____

Lab Code: _____ Case No.: RA096 SAS No.: _____ SDG No.: NDEC012

Matrix: (soil/water) WATER Lab Sample ID: 9702038DL 1:5

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: P05531.D

Level: (low/med) LOW Date Received: 01/23/97

% Moisture: not dec. _____ Date Analyzed: 01/29/97

GC Column: RTX502. ID: 0.53 (mm) Dilution Factor: 5.0

Soil Extract Volume _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/L	Q
74-87-3	Chloromethane		50	U
74-83-9	Bromomethane		50	U
75-01-4	Vinyl Chloride		50	U
75-00-3	Chloroethane		50	U
75-09-2	Methylene Chloride		50	U
67-64-1	Acetone		170	D
75-15-0	Carbon Disulfide		50	U
75-35-4	1,1-Dichloroethene		50	U
75-34-4	1,1-Dichloroethane		50	U
540-59-0	1,2-Dichloroethene (total)		50	U
67-66-3	Chloroform		50	U
107-06-2	1,2-Dichloroethane		50	U
78-93-3	2-Butanone		50	U
71-55-6	1,1,1-Trichloroethane		18	JD
56-23-5	Carbon Tetrachloride		50	U
75-27-4	Bromodichloromethane		50	U
78-87-5	1,2-Dichloropropane		50	U
10061-01-5	cis-1,3-Dichloropropene		50	U
79-01-6	Trichloroethene		550	D
71-43-2	Benzene		50	U
124-48-1	Dibromochloromethane		50	U
10061-02-6	trans-1,3-Dichloropropene		50	U
79-00-5	1,1,2-Trichloroethane		50	U
75-25-2	Bromoform		50	U
108-10-1	4-Methyl-2-Pentanone		50	U
591-78-6	2-Hexanone		50	U
127-18-4	Tetrachloroethene		18	JD
79-34-5	1,1,2,2-Tetrachloroethane		50	U
108-88-3	Toluene		40	JD
108-90-7	Chlorobenzene		50	U
100-41-4	Ethylbenzene		50	U
100-42-5	Styrene		50	U
1330-20-7	Xylene (total)		50	U

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

B60221DL

Lab Name: H2M LABS INC. Contract: _____
Lab Code: _____ Case No.: RA096 SAS No.: _____ SDG No.: NDEC012
Matrix: (soil/water) WATER Lab Sample ID: 9702038DL 1:5
Sample wt/vol: 5.0 (g/ml) ML Lab File ID: P05531.D
Level: (low/med) LOW Date Received: 01/23/97
% Moisture: not dec. _____ Date Analyzed: 01/29/97
GC Column: RTX502. ID: 0.53 (mm) Dilution Factor: 5.0
Soil Extract Volume _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

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

Number TICs found: 1

CAS NO.	COMPOUND	RT	EST. CONC.	Q
1.	unknown	18.52	42	JD

Quantitation Report

Data File : S:\MS\HP#3\JAN97\P05531.D

Acq On : 29 Jan 97 7:43 pm

Sample : 9702038DL 1:5

Misc : B60221 H5970-3 1/29/97

Quant Time: Feb 11 18:06 1997

Vial: 13

Operator: GLENN

Inst : 5970 - In

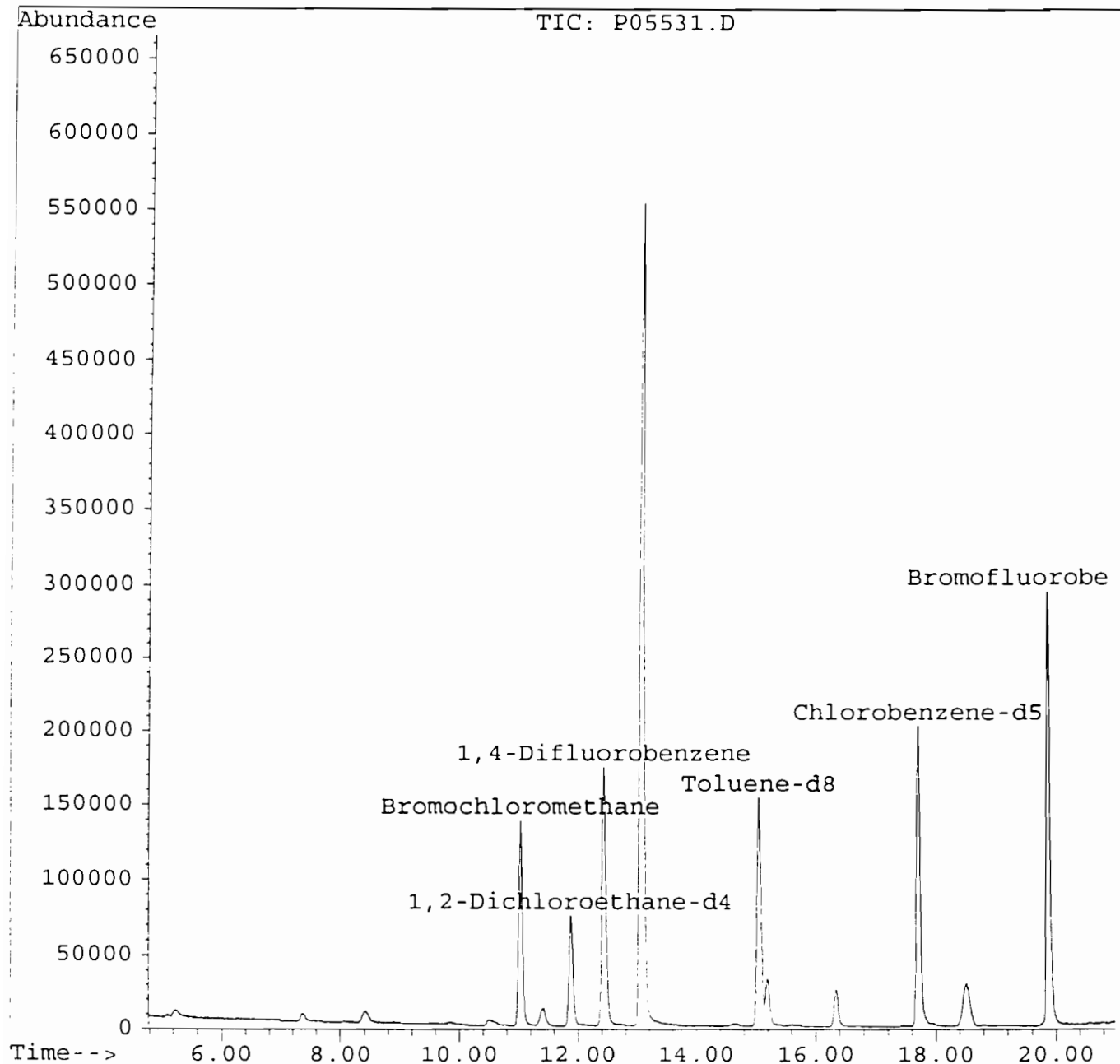
Multiplr: 1.00

Method : S:\MS\HP#3\JAN97\CLPW.M

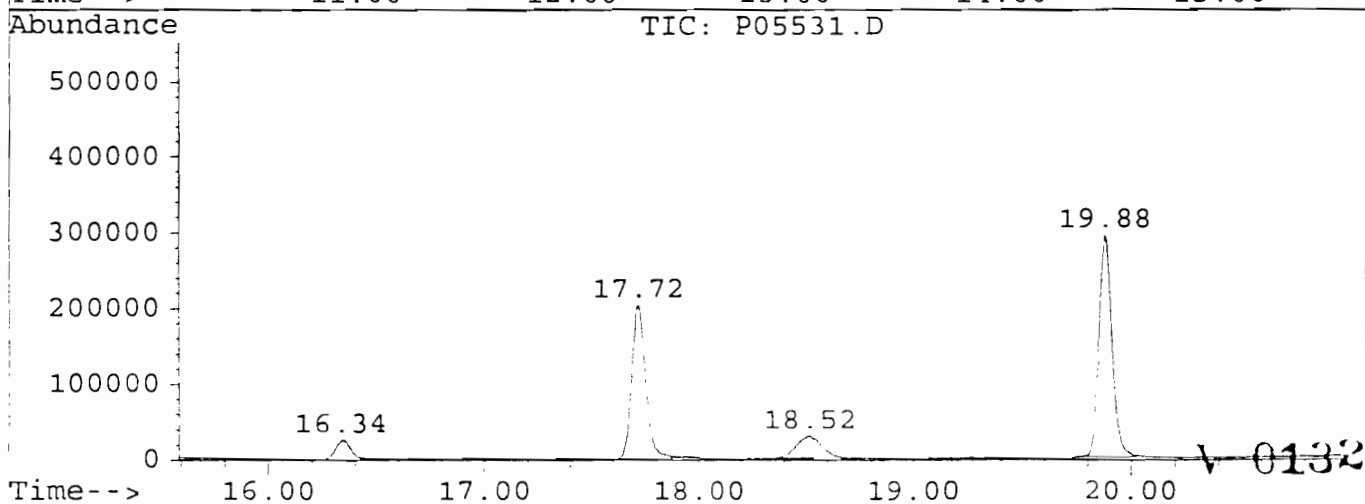
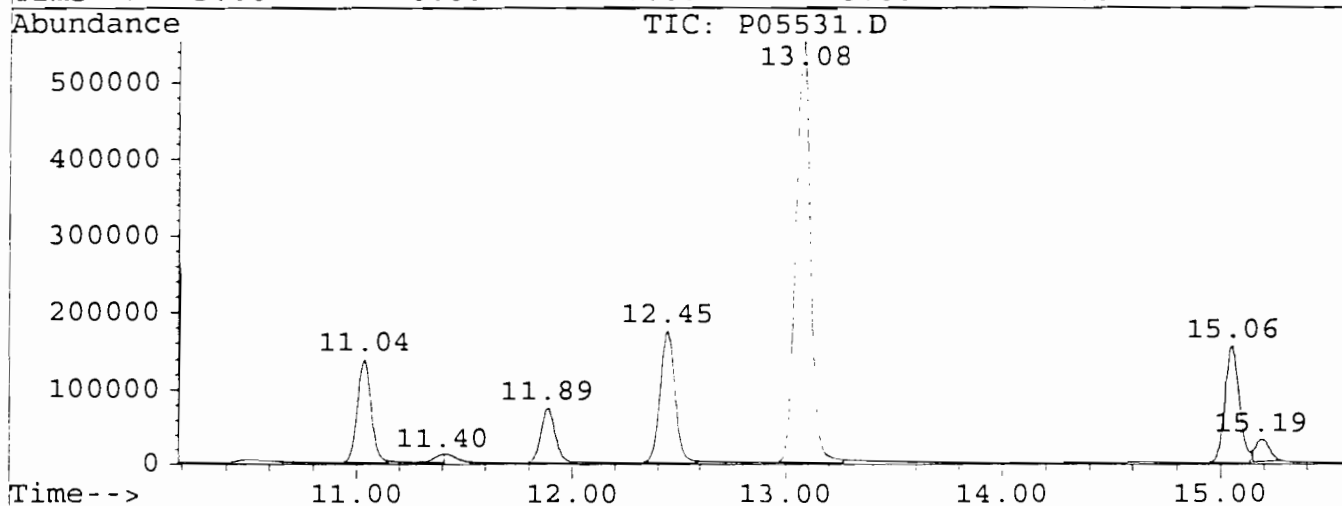
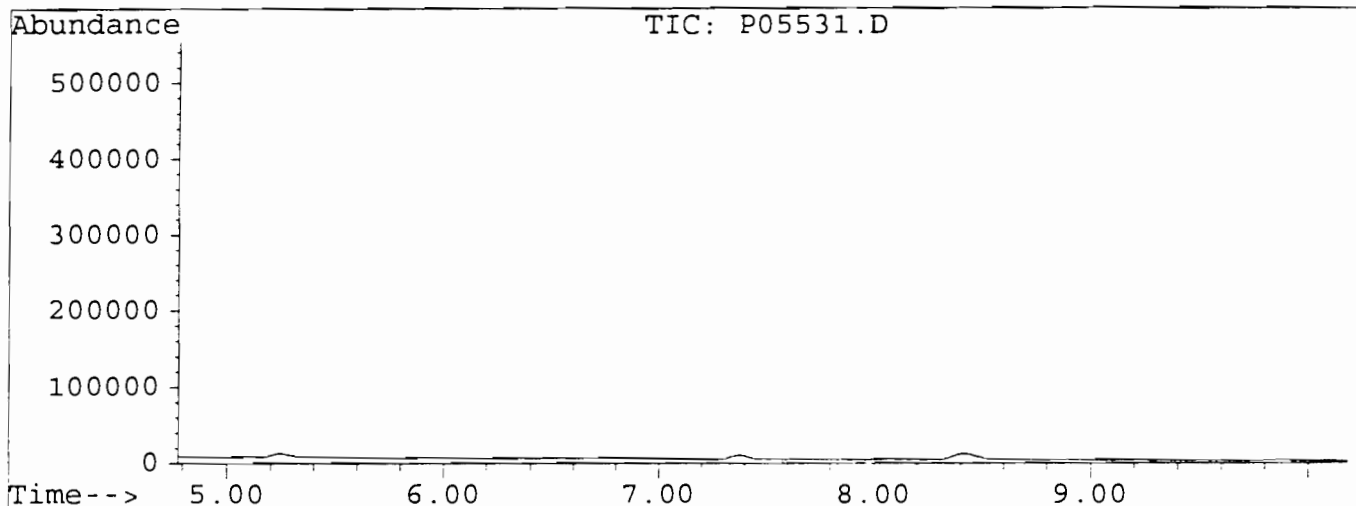
Title : VOA CLP WATER METHOD

Last Update : Thu Jan 16 09:32:21 1997

Response via : Single Level Calibration



File : S:\MS\HP#3\JAN97\P05531.D
Operator : GLENN
Acquired : 29 Jan 97 19:43 using AcqMethod CLPW
Instrument : 5970 - In
Sample Name: 9702038DL 1:5
Misc Info : B60221 H5970-3 1/29/97 5.0ML 10UL ANTIFO
Vial Number: 13



Quantitation Report

Data File : S:\MS\HP#3\JAN97\P05531.D Vial: 13
 Acq On : 29 Jan 97 19:43 Operator: GLENN
 Sample : 9702038DL 1:5 Inst : 5970 - In
 Misc : B60221 H5970-3 1/29/97 5.0ML 10UL AN Multiplr: 1.00
 Quant Time: Feb 11 18:06 1997

Method : C:\HPCHEM\1\METHODS\CLPW.M
 Title : VOA CLP WATER METHOD
 Last Update : Wed Jan 29 14:26:15 1997
 Response via : Continuing Cal File: C:\HPCHEM\1\DATA\P05519.D

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	11.04	128	80616	50.00	UG/L	0.00
21) 1,4-Difluorobenzene	12.45	114	301064	50.00	UG/L	-0.02
33) Chlorobenzene-d5	17.72	117	249975	50.00	UG/L	0.00
System Monitoring Compounds						%Recovery
18) 1,2-Dichloroethane-d4	11.89	65	131929	58.10	UG/L	116.21%
34) Toluene-d8	15.05	98	245516	47.39	UG/L	94.78%
43) Bromofluorobenzene	19.88	95	246961	53.08	UG/L	106.17%
Target Compounds						Qvalue
8) Acetone	7.38	43	18694	33.03	UG/L	86
22) 1,1,1-Trichloroethane	11.41	97	23341m	3.69	UG/L	98
24) Trichloroethene	13.08	130	413140	109.03	UG/L	94
36) Toluene	15.19	91	53896	8.01	UG/L	100
37) Tetrachloroethene	16.35	164	13820	3.53	UG/L	98

Signature

Tentatively Identified Compound (LSC) summary

Operator ID: GLENN Date Acquired: 29 Jan 97 19:43

Data File: S:\MS\HP#3\JAN97\P05531.D

Name: 9702038DL 1:5

Misc: B60221 H5970-3 1/29/97 5.0ML 10UL ANTIFO

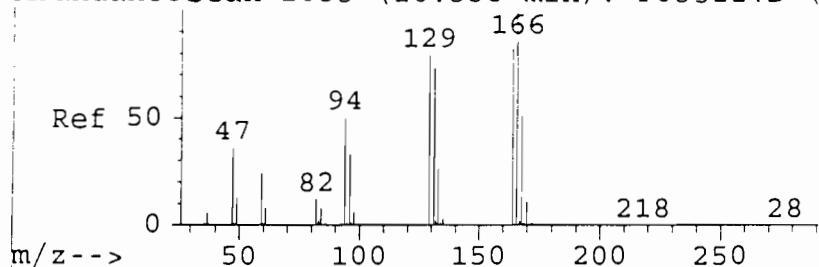
Method: CLPW

Title: VOA CLP WATER METHOD

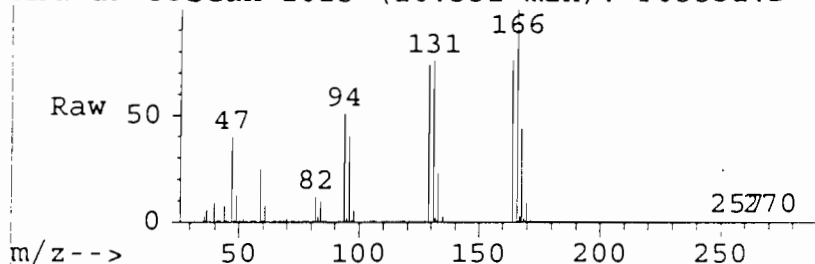
Library Searched: NBS75K.L

TIC Top Hit name	RT	EstConc	Units	Area	IntStd	ISRT	ISArea	ISConc
clotetrasiloxane,	18.52	8.5	UG/L	152815	ISTD03	17.72	904108	50.0

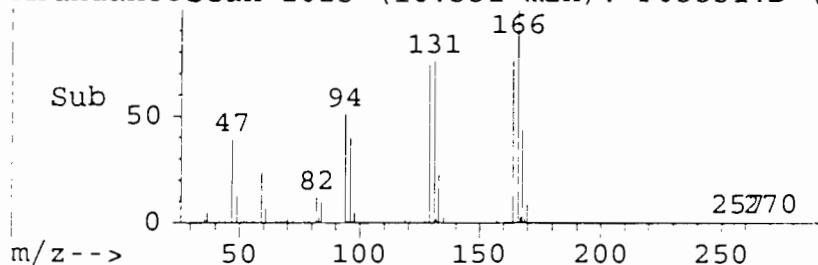
AbundanceScan 2055 (16.538 min): P05322.D (



AbundanceScan 2023 (16.351 min): P05531.D (



AbundanceScan 2023 (16.351 min): P05531.D (



#37

Tetrachloroethene

Concen: 3.53 UG/L

RT: 16.35 min Scan# 2023

Delta R.T. -0.01 min

Lab File: P05531.D

Acq: 29 Jan 97 7:43 pm

Tgt Ion:164 Resp: 13820

Ion Ratio Lower Upper

164 100

166 131.2 109.5 149.5

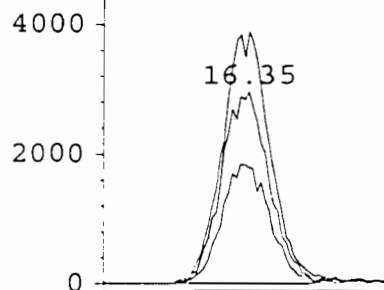
168 60.2 42.4 82.4

0 0.0 0.0 0.0

AbundanceIon 164.00 (163

Ion 166.00 (165

Ion 168.00 (167



Time-->16.14 16.48

Sample Name: 9702038DL 1:5

Misc. Info: B60221 H5970-3 1/29/97 5.0ML 10UL ANTIFO

P05531.D CLPW.M

Wed Feb 12 16:04:04 1997

JON

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Page 5

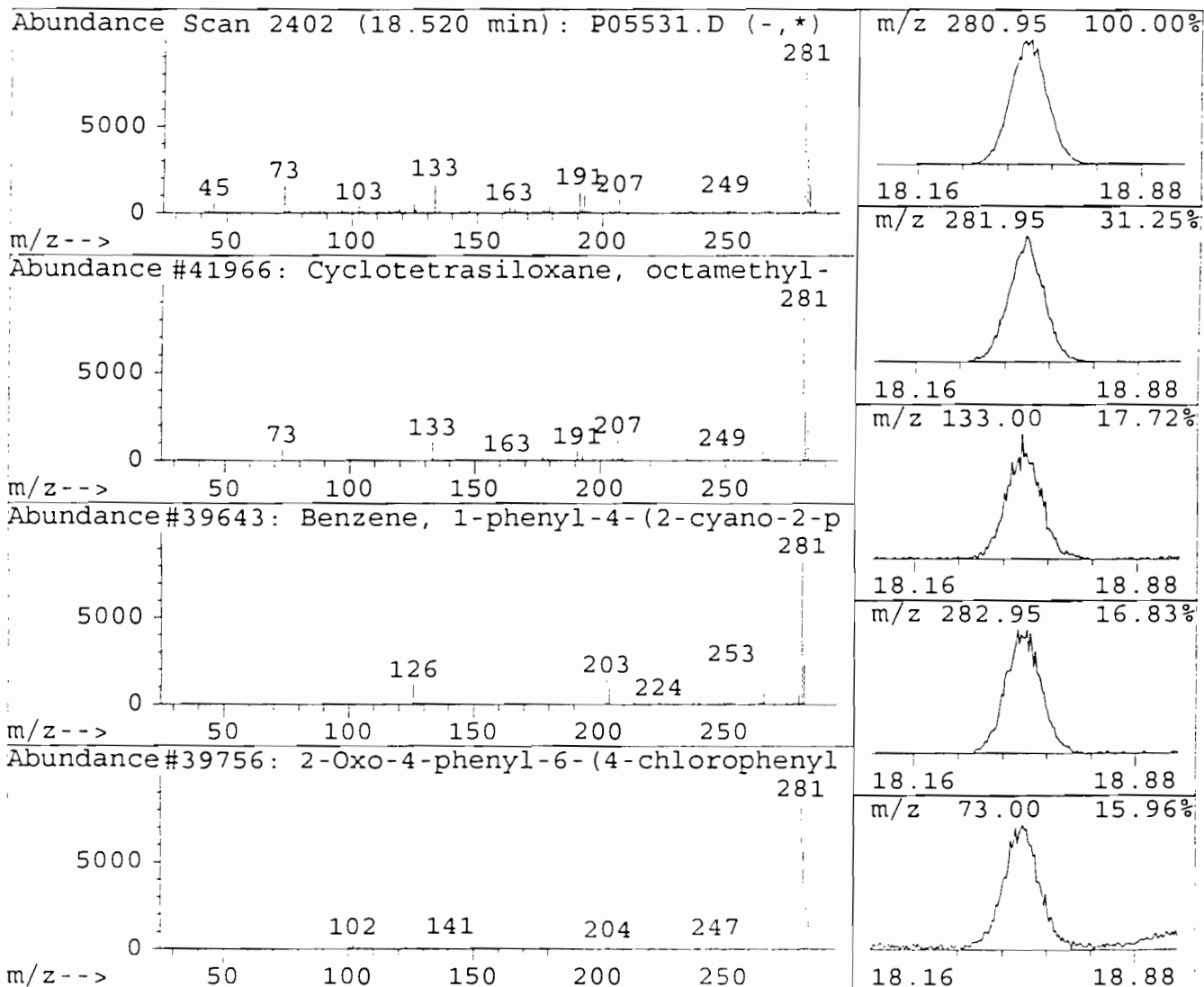
Library Search Compound Report

Data File : S:\MS\HP#3\JAN97\P05531.D
Acq On : 29 Jan 97 19:43
Sample : 9702038DL 1:5
Misc : B60221 H5970-3 1/29/97 5.0ML 10UL AN

Vial: 13
Operator: GLENN
Inst : 5970 - In
Multiplr: 1.00

Method : S:\MS\HP#3\JAN97\CLPW.M
Title : VOA CLP WATER METHOD
Library : C:\DATABASE\NBS75K.L

R.T.	Conc	Area	Relative to ISTD	R.T.		
18.52	8.45 UG/L	152815	Chlorobenzene-d5	17.72		
Hit# of 10	Tentative ID		MW	MolForm	CAS#	Qual
1	Cyclotetrasiloxane, octamethyl-		296	C8H24O4Si4	000556-67-2	50
2	Benzene, 1-phenyl-4-(2-cyano-2-phen		281	C21H15N	027869-56-3	50
3	2-Oxo-4-phenyl-6-(4-chlorophenyl)-1		282	C16H11ClN2O	000000-00-0	9
4	2(1H)-Pyrimidinone, 5-chloro-4,6-di		282	C16H11ClN2O	028567-83-1	8
5	14.alpha.-Morphinan, 7,8-didehydro-		281	C19H23NO	017939-34-3	5



V C13S

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B60222

Lab Name: H2M LABS INC. Contract: _____
 Lab Code: _____ Case No.: RA096 SAS No.: _____ SDG No.: NDEC012
 Matrix: (soil/water) WATER Lab Sample ID: 9702039
 Sample wt/vol: 5.0 (g/ml) ML Lab File ID: P05507.D
 Level: (low/med) LOW Date Received: 01/23/97
 % Moisture: not dec. _____ Date Analyzed: 01/28/97
 GC Column: RTX502. ID: 0.53 (mm) Dilution Factor: 1.0
 Soil Extract Volume _____ (uL) Soil Aliquot Volume: _____ (uL)

A66P-02-
(56'-60')

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(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	10	U	
67-64-1	Acetone	92		
75-15-0	Carbon Disulfide	10	U	
75-35-4	1,1-Dichloroethene	2	J	
75-34-4	1,1-Dichloroethane	5	J	
540-59-0	1,2-Dichloroethene (total)	13		
67-66-3	Chloroform	10	U	
107-06-2	1,2-Dichloroethane	3	J	
78-93-3	2-Butanone	10	U	
71-55-6	1,1,1-Trichloroethane	160		
56-23-5	Carbon Tetrachloride	10	U	
75-27-4	Bromodichloromethane	10	U	
78-87-5	1,2-Dichloropropane	10	U	
10061-01-5	cis-1,3-Dichloropropene	10	U	
79-01-6	Trichloroethene	660	E	
71-43-2	Benzene	10	U	
124-48-1	Dibromochloromethane	10	U	
10061-02-6	trans-1,3-Dichloropropene	10	U	
79-00-5	1,1,2-Trichloroethane	10	U	
75-25-2	Bromoform	10	U	
108-10-1	4-Methyl-2-Pentanone	10	U	
591-78-6	2-Hexanone	10	U	
127-18-4	Tetrachloroethene	15		
79-34-5	1,1,2,2-Tetrachloroethane	10	U	
108-88-3	Toluene	10		
108-90-7	Chlorobenzene	10	U	
100-41-4	Ethylbenzene	10	U	
100-42-5	Styrene	10	U	
1330-20-7	Xylene (total)	10	U	

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

B60222

Lab Name: H2M LABS INC. Contract: _____
Lab Code: _____ Case No.: RA096 SAS No.: _____ SDG No.: NDEC012
Matrix: (soil/water) WATER Lab Sample ID: 9702039
Sample wt/vol: 5.0 (g/ml) ML Lab File ID: P05507.D
Level: (low/med) LOW Date Received: 01/23/97
% Moisture: not dec. _____ Date Analyzed: 01/28/97
GC Column: RTX502 ID: 0.53 (mm) Dilution Factor: 1.0
Soil Extract Volume _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

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

Number TICs found: 2

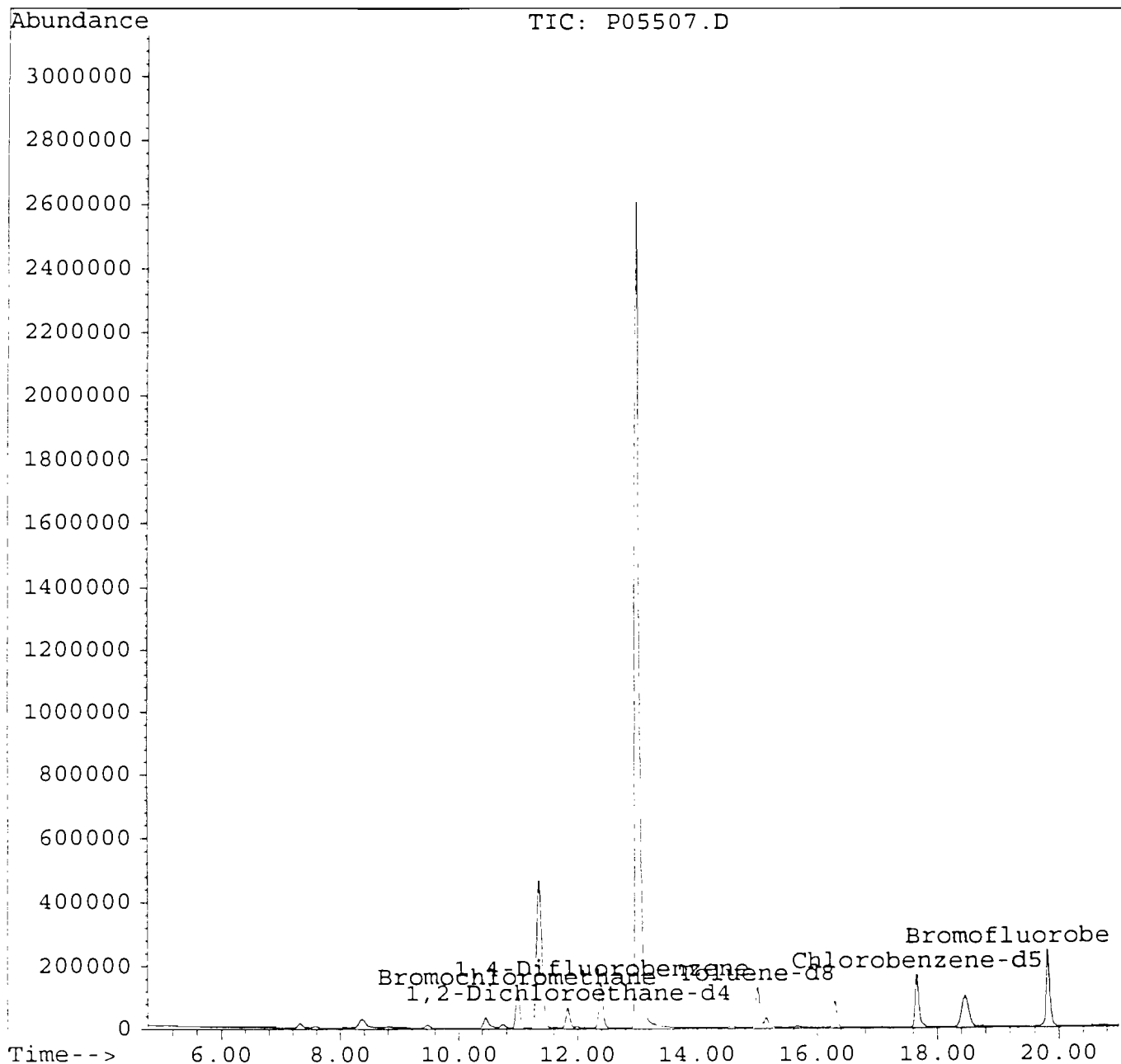
CAS NO.	COMPOUND	RT	EST. CONC.	Q
1. 001066-40-6	Silanol, trimethyl-	8.37	19	JN
2. 000556-67-2	Cyclotetrasiloxane, octamethyl-	18.47	53	JN

Quantitation Report

Data File : S:\MS\HP#3\JAN97\P05507.D
 Acq On : 28 Jan 97 5:19 pm
 Sample : 9702039
 Misc : B60222 H5970-3 1/27/97 5.0ML
 Quant Time: Feb 13 15:00 1997

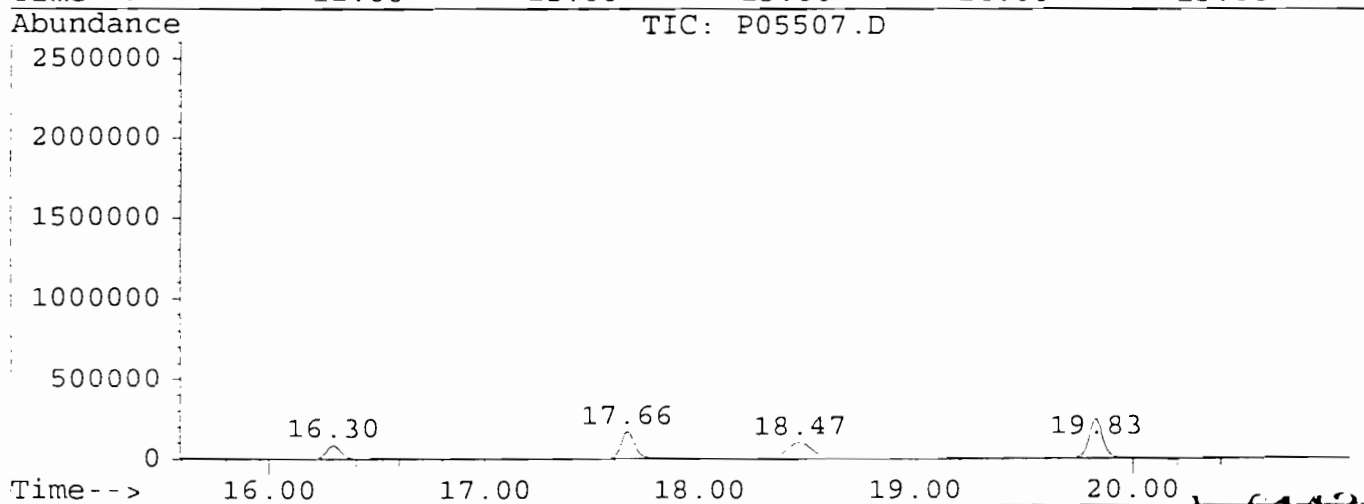
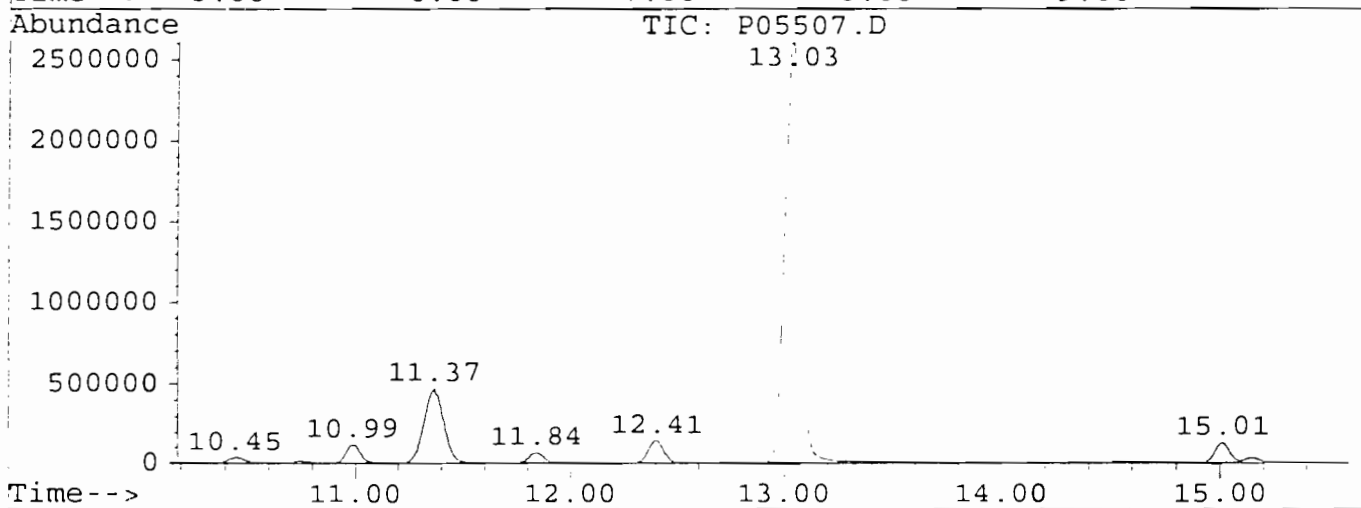
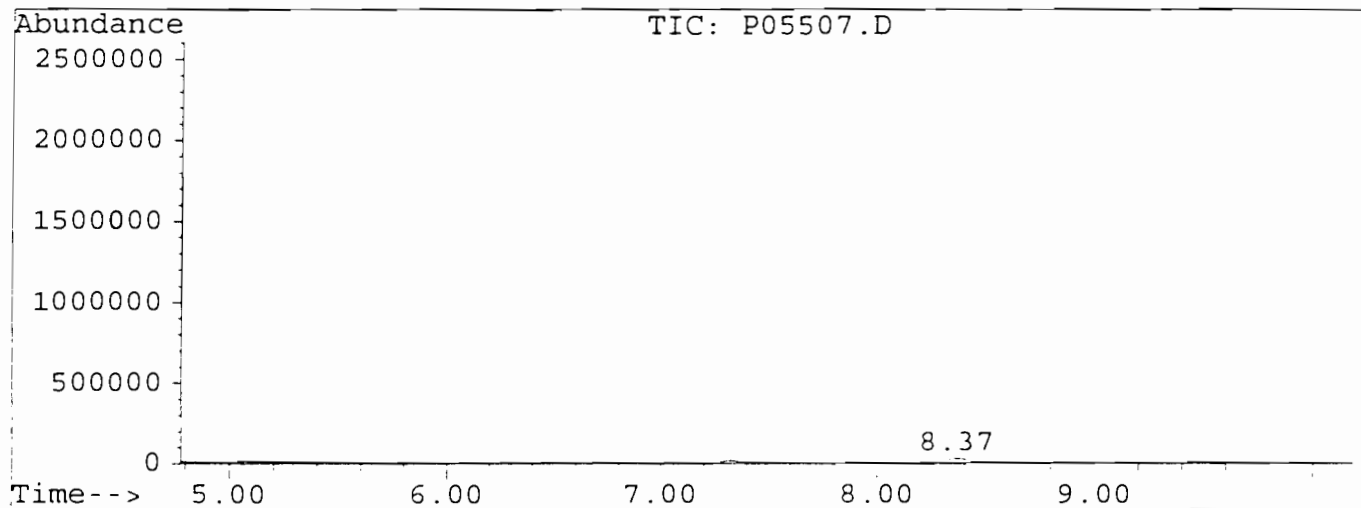
Vial: 12
 Operator: GLENN
 Inst : 5970 - In
 Multiplr: 1.00

Method : S:\MS\HP#3\JAN97\CLPW.M
 Title : VOA CLP WATER METHOD
 Last Update : Thu Jan 16 09:32:21 1997
 Response via : Single Level Calibration



\ C141

File : S:\MS\HP#3\JAN97\P05507.D
Operator : GLENN
Acquired : 28 Jan 97 17:19 using AcqMethod CLPW
Instrument : 5970 - In
Sample Name: 9702039
Misc Info : B60222 H5970-3 1/27/97 5.0ML
Vial Number: 12



Quantitation Report

Data File : S:\MS\HP#3\JAN97\P05507.D
Acq On : 28 Jan 97 17:19
Sample : 9702039
Misc : B60222 H5970-3 1/27/97 5.0ML
Quant Time: Feb 13 15:00 1997

Vial: 12
Operator: GLENN
Inst : 5970 - In
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\CLPW.M
Title : VOA CLP WATER METHOD
Last Update : Tue Jan 28 12:53:08 1997
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\P05498.D

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	10.99	128	71923	50.00	UG/L	0.04
21) 1,4-Difluorobenzene	12.41	114	256802	50.00	UG/L	0.05
33) Chlorobenzene-d5	17.68	117	208764	50.00	UG/L	0.04
System Monitoring Compounds				%Recovery		
18) 1,2-Dichloroethane-d4	11.84	65	115179	52.67	UG/L	105.35%
34) Toluene-d8	15.01	98	209589	50.16	UG/L	100.31%
43) Bromofluorobenzene	19.83	95	204854	50.99	UG/L	101.98%
Target Compounds				Qvalue		
6) 1,1-Dichloroethene	7.59	96	4367	1.57	UG/L	96
8) Acetone	7.32	43	51809	92.38	UG/L	88
14) cis-,1,2-Dichloroethene	10.45	96	31242	11.14	UG/L	88
15) 1,2-Dichloroethene (total)	10.45	96	37069m	12.71	UG/L	74
16) 1,1-Dichloroethane	9.47	63	27104	5.19	UG/L	91
19) 1,2-Dichloroethane	12.00	62	9480	2.78	UG/L	89
22) 1,1,1-Trichloroethane	11.36	97	899277	156.63	UG/L	96
24) Trichloroethene	13.03	130	2088881	656.21	UG/L	95
36) Toluene	15.15	91	55106	10.19	UG/L	93
37) Tetrachloroethene	16.30	164	48175	15.20	UG/L	89

Sw 2/13/97

(#) = qualifier out of range (m) = manual integration

P05507.D CLPW.M

Thu Feb 13 15:01:02 1997

JON

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Tentatively Identified Compound (LSC) summary

Operator ID: GLENN Date Acquired: 28 Jan 97 17:19

Data File: S:\MS\HP#3\JAN97\P05507.D

Time: 9702039

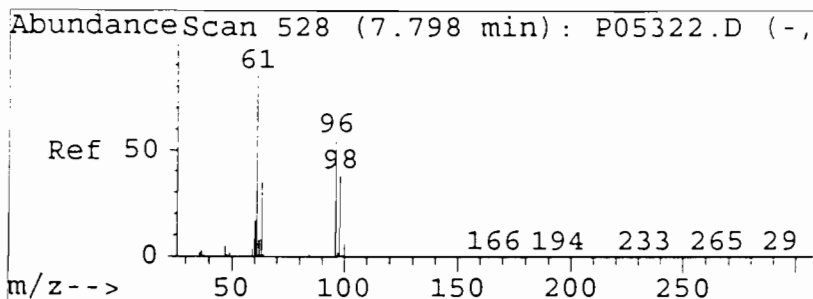
Misc: B60222 H5970-3 1/27/97 5.0ML

Method: CLPW

Title: VOA CLP WATER METHOD

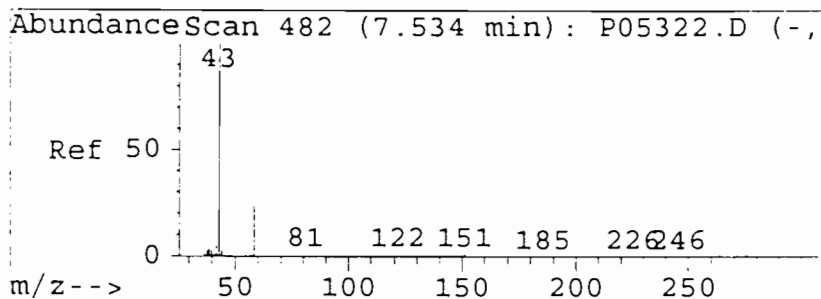
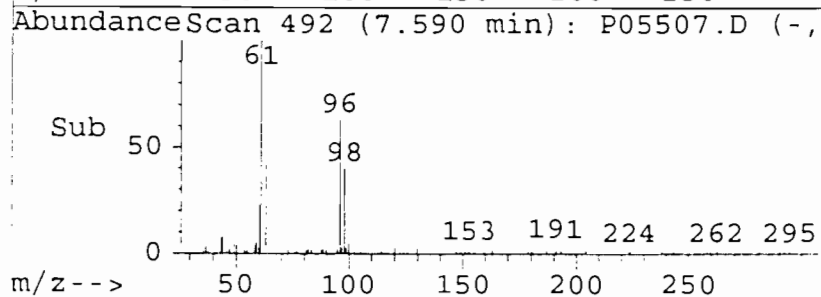
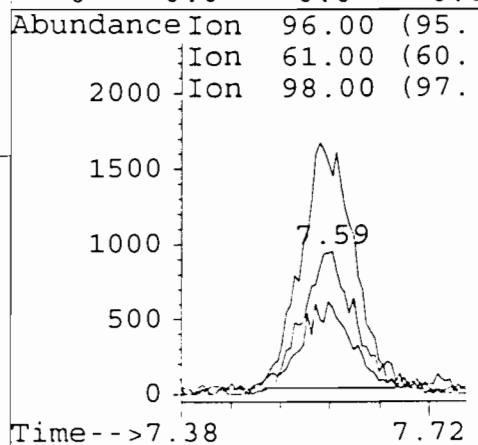
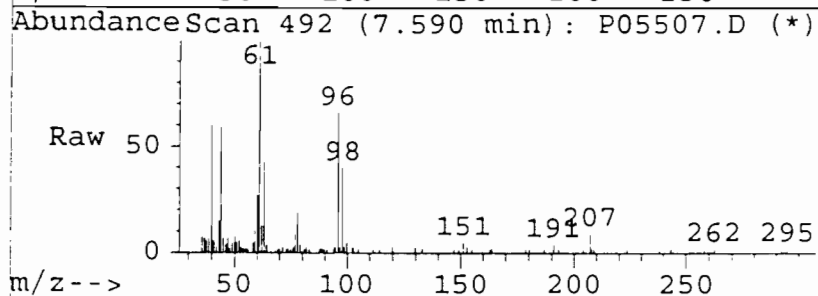
Library Searched: NBS75K.L

TIC Top Hit name	RT	EstConc	Units	Area	IntStd	ISRT	ISArea	ISConc
Propanol, trimethyl-	8.37	18.8	UG/L	203678	ISTD01	10.99	541912	50.0
Dicyclotetrasiloxane,	18.47	52.9	UG/L	827595	ISTD03	17.68	781733	50.0



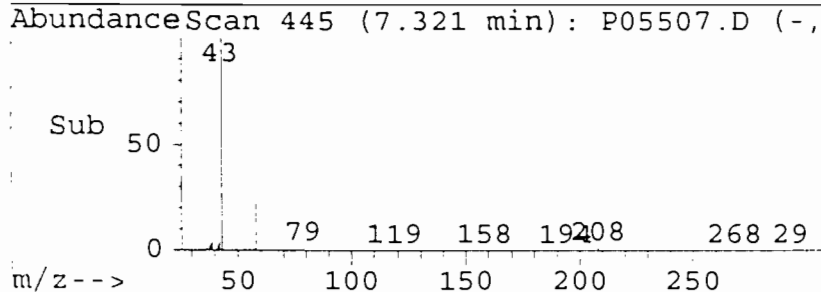
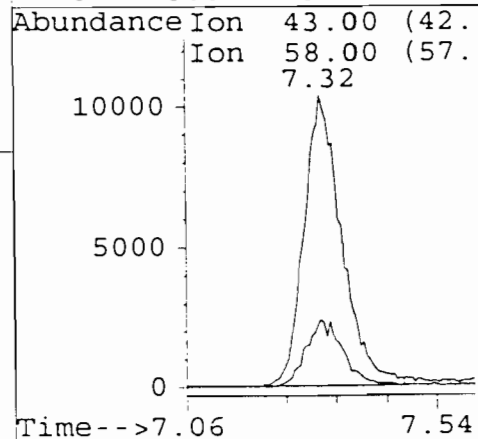
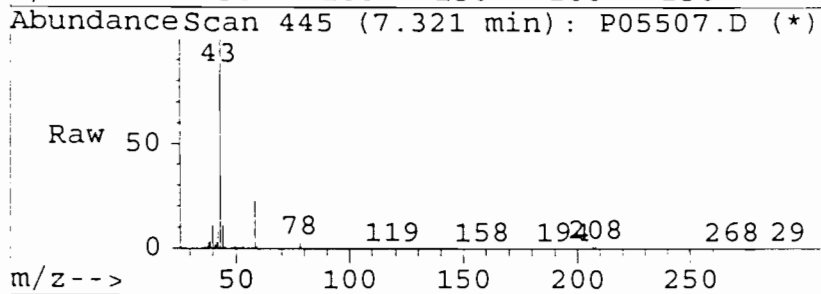
#6
1,1-Dichloroethene
Concen: 1.57 UG/L
RT: 7.59 min Scan# 492
Delta R.T. -0.00 min
Lab File: P05507.D
Acq: 28 Jan 97 5:19 pm

Tgt Ion:96	Resp:	4367
Ion Ratio	Lower	Upper
96	100	
61	153.2	139.2 179.2
98	64.1	44.9 84.9
0	0.0	0.0 0.0



#8
Acetone
Concen: 92.38 UG/L
RT: 7.32 min Scan# 445
Delta R.T. -0.01 min
Lab File: P05507.D
Acq: 28 Jan 97 5:19 pm

Tgt Ion:43	Resp:	51809
Ion Ratio	Lower	Upper
43	100	
58	23.1	9.7 49.7
0	0.0	0.0 0.0
0	0.0	0.0 0.0

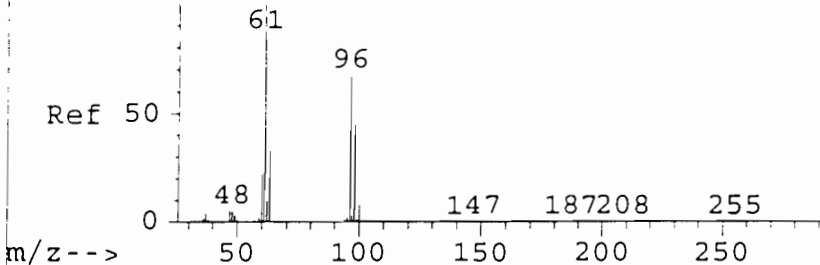


Sample Name: 9702039
Misc. Info: B60222 H5970-3 1/27/97 5.0ML
P05507.D CLPW.M Thu Feb 13 15:01:21 1997

JON

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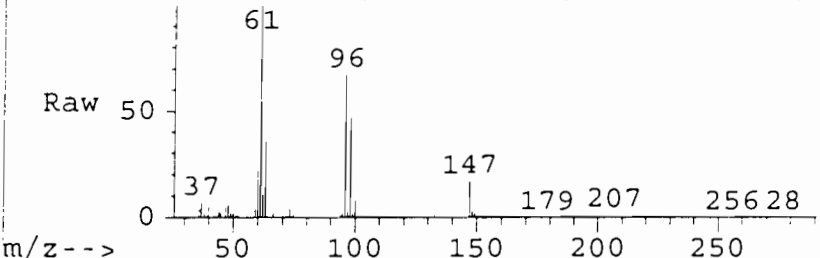
AbundanceScan 1032 (10.682 min): P05322.D (



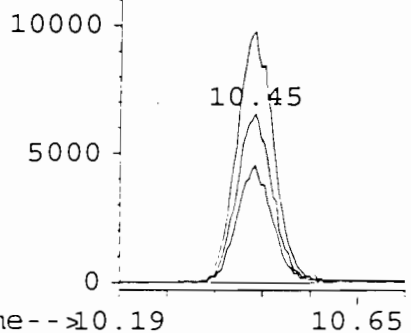
#14
cis-,1,2-Dichloroethene
Concen: 11.14 UG/L
RT: 10.45 min Scan# 992
Delta R.T. 0.04 min
Lab File: P05507.D
Acq: 28 Jan 97 5:19 pm

Tgt Ion:	95.85	Resp:	31242
Ion	Ratio	Lower	Upper
96	100		
98	67.6	53.1	79.6
61	151.0	105.0	157.5
0	0.0	0.0	0.0

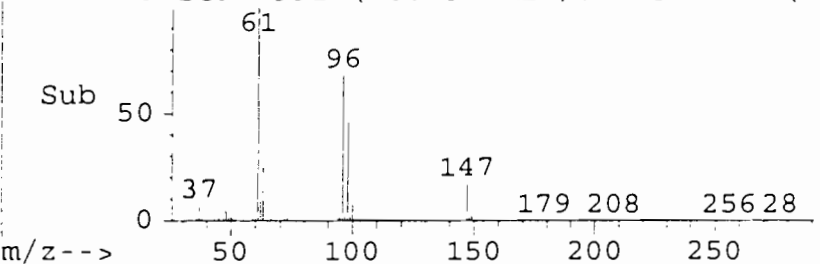
AbundanceScan 992 (10.452 min): P05507.D (*)



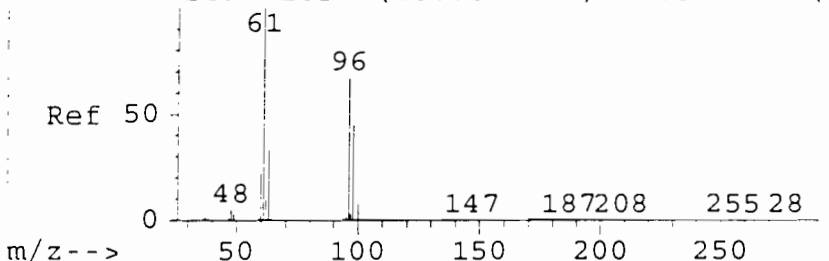
Abundance	Ion	95.85	(95.
	Ion	97.95	(97.
	Ion	60.90	(60.



AbundanceScan 992 (10.452 min): P05507.D (-



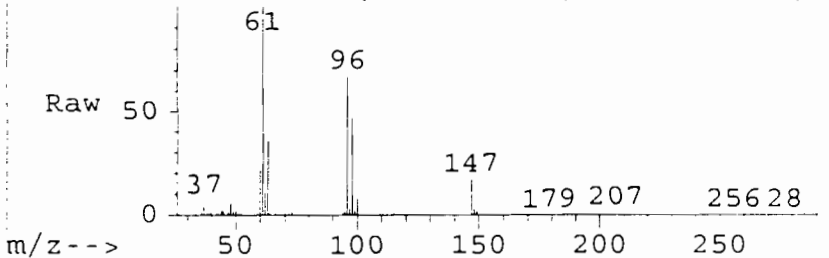
AbundanceScan 1032 (10.682 min): P05322.D (



#15
1,2-Dichloroethene (total)
Concen: 12.71 UG/L m
RT: 10.45 min Scan# 992
Delta R.T. 1.65 min
Lab File: P05507.D
Acq: 28 Jan 97 5:19 pm

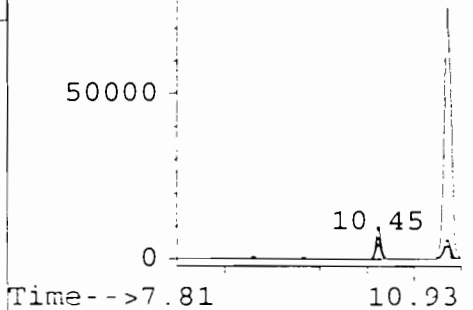
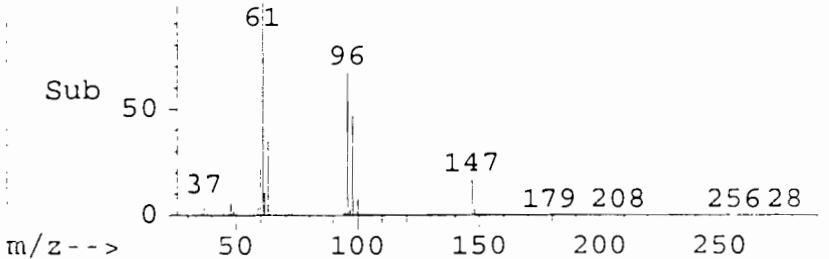
Tgt Ion:	96	Resp:	37069
Ion	Ratio	Lower	Upper
96	100		
61	148.5	111.6	151.6
98	69.2	44.6	84.6
0	0.0	0.0	0.0

AbundanceScan 992 (10.452 min): P05507.D (*)



Abundance	Ion	96.00	(95.
	Ion	61.00	(60.
	Ion	98.00	(97.

AbundanceScan 992 (10.452 min): P05507.D (-



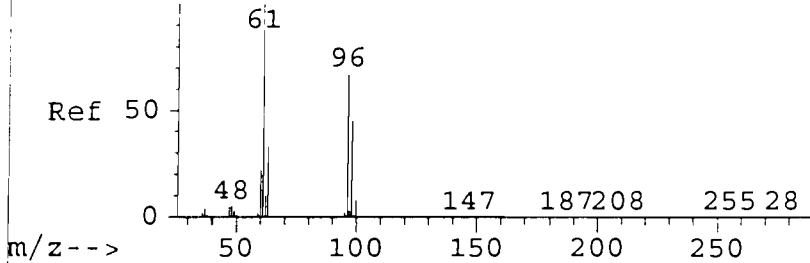
Sample Name: 9702039

Misc. Info: B60222 H5970-3 1/27/97 5.0ML
P05507.D CLPW.M Thu Feb 13 15:01:32 1997

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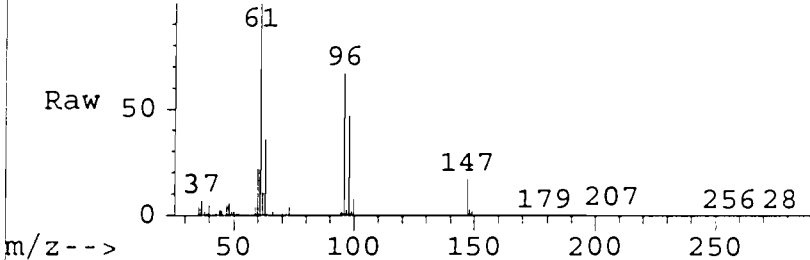
AbundanceScan 1032 (10.682 min): P05322.D (



#15
1,2-Dichloroethene (total)
Concen: 12.71 UG/L m
RT: 10.45 min Scan# 992
Delta R.T. 1.65 min
Lab File: P05507.D
Acq: 28 Jan 97 5:19 pm

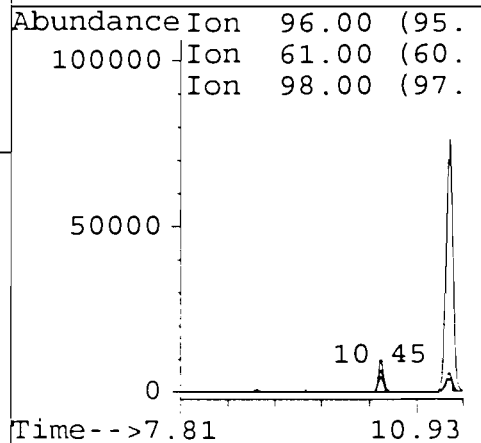
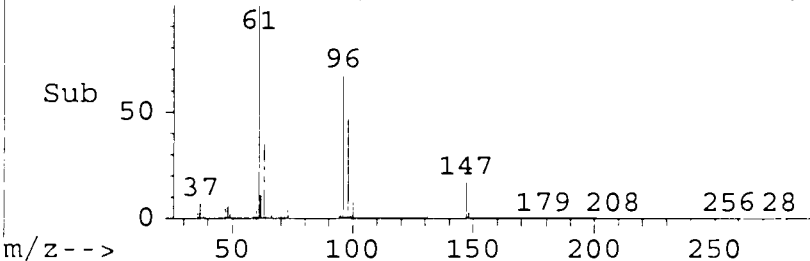
Tgt Ion	Ratio	Lower	Upper
96	100		
61	148.5	111.6	151.6
98	69.2	44.6	84.6
0	0.0	0.0	0.0

AbundanceScan 992 (10.452 min): P05507.D (*)

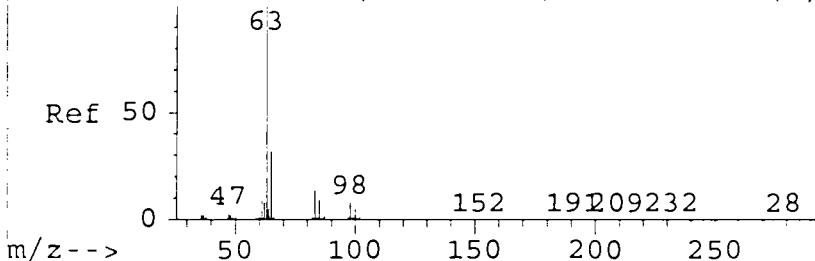


Abundance	Ion	Ratio	Lower	Upper
100000	96.00	(95.		
	61.00	(60.		
	98.00	(97.		

AbundanceScan 992 (10.452 min): P05507.D (-



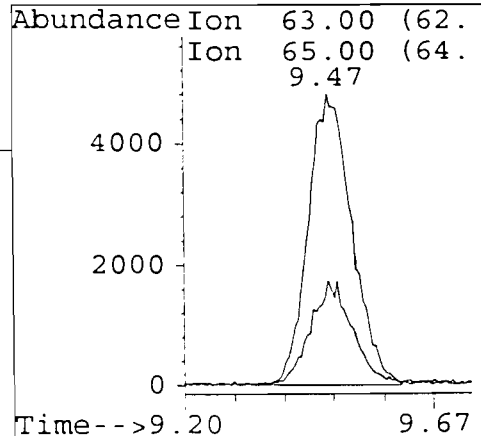
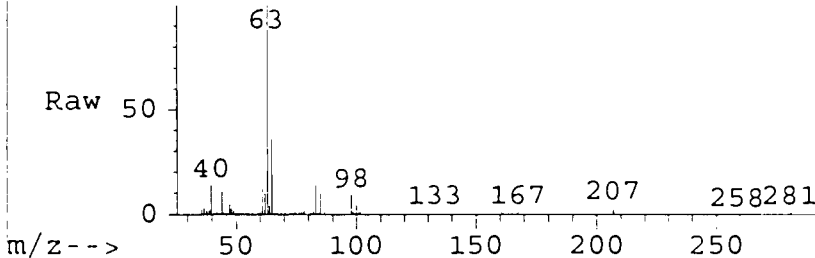
AbundanceScan 862 (9.709 min): P05322.D (-,



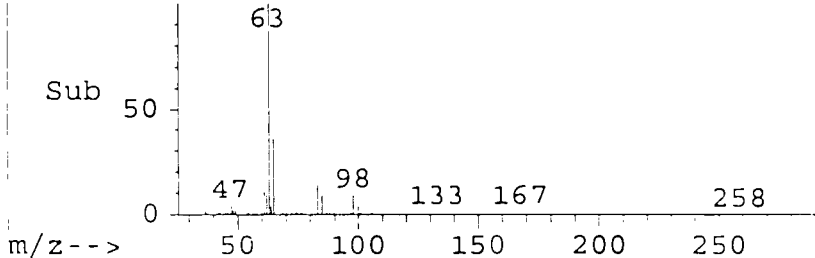
#16
1,1-Dichloroethane
Concen: 5.19 UG/L
RT: 9.47 min Scan# 821
Delta R.T. 0.01 min
Lab File: P05507.D
Acq: 28 Jan 97 5:19 pm

Tgt Ion	Ratio	Lower	Upper
63	100		
65	35.4	10.4	50.4
0	0.0	0.0	0.0
0	0.0	0.0	0.0

AbundanceScan 821 (9.473 min): P05507.D (*)



AbundanceScan 821 (9.473 min): P05507.D (-,

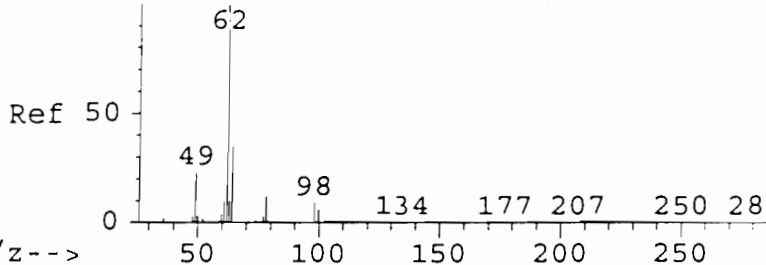


Sample Name: 9702039
Misc. Info: B60222 H5970-3 1/27/97 5.0ML
P05507.D CLPW.M Wed Feb 12 15:58:28 1997

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AbundanceScan 1303 (12.233 min): P05322.D (



#19

1,2-Dichloroethane

Concen: 2.78 UG/L

RT: 12.00 min Scan# 1262

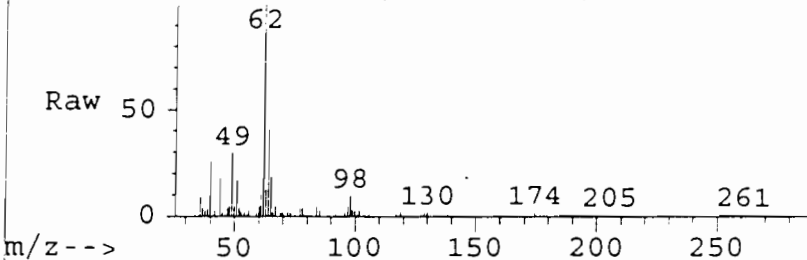
Delta R.T. 0.05 min

Lab File: P05507.D

Acq: 28 Jan 97 5:19 pm

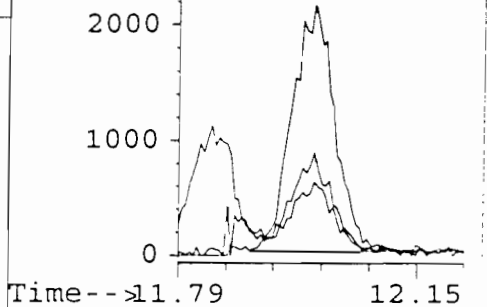
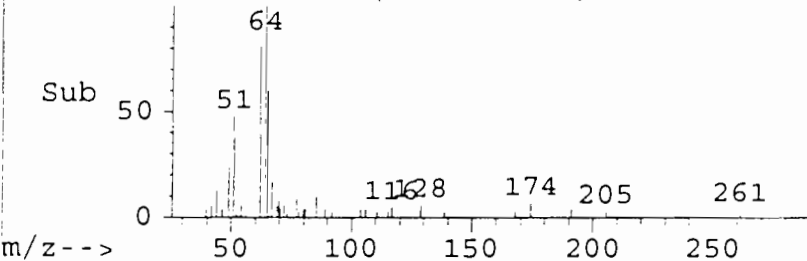
Tgt Ion:62	Resp:	9480
Ion Ratio	Lower	Upper
62 100		
49 27.1	15.4	55.4
64 39.3	14.5	54.5
0 0.0	0.0	0.0

AbundanceScan 1262 (11.997 min): P05507.D (

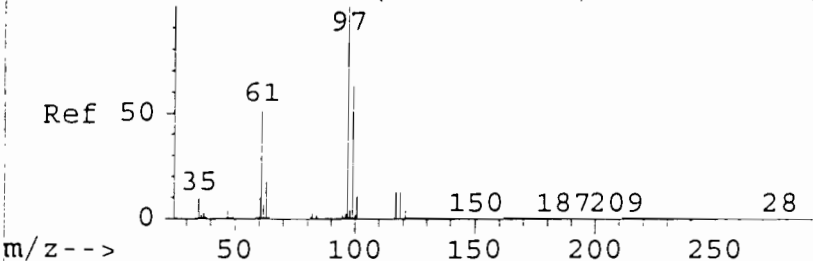


Abundance Ion	62.00 (61.
Ion	49.00 (48.
Ion	64.00 (63.

AbundanceScan 1262 (11.997 min): P05507.D (



AbundanceScan 1193 (11.604 min): P05322.D (



#22

1,1,1-Trichloroethane

Concen: 156.63 UG/L

RT: 11.36 min Scan# 1151

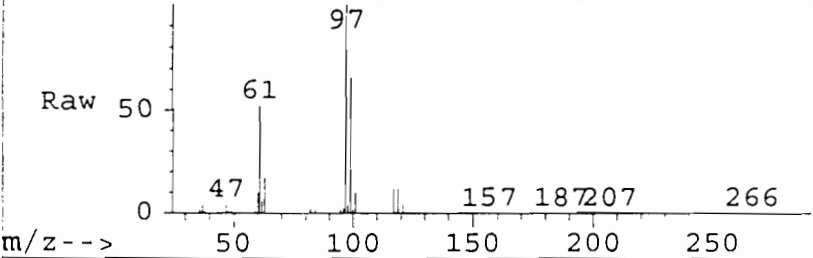
Delta R.T. 0.04 min

Lab File: P05507.D

Acq: 28 Jan 97 5:19 pm

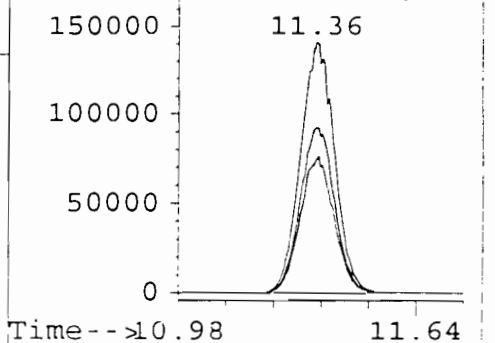
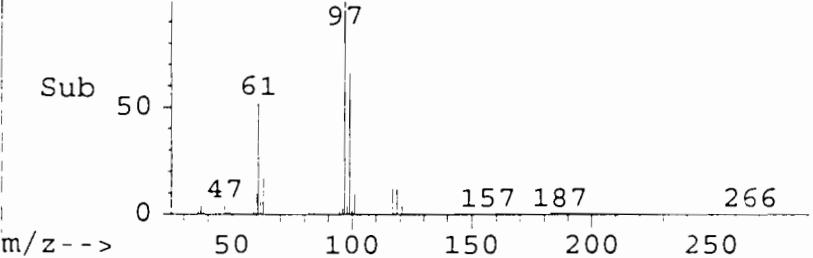
Tgt Ion:97	Resp:	899277
Ion Ratio	Lower	Upper
97 100		
99 65.5	46.6	86.6
61 52.4	27.5	67.5
0 0.0	0.0	0.0

AbundanceScan 1151 (11.362 min): P05507.D (



Abundance Ion	97.00 (96.
Ion	99.00 (98.
Ion	61.00 (60.

AbundanceScan 1151 (11.362 min): P05507.D (



Sample Name: 9702039

Misc. Info: B60222 H5970-3 1/27/97 5.0ML

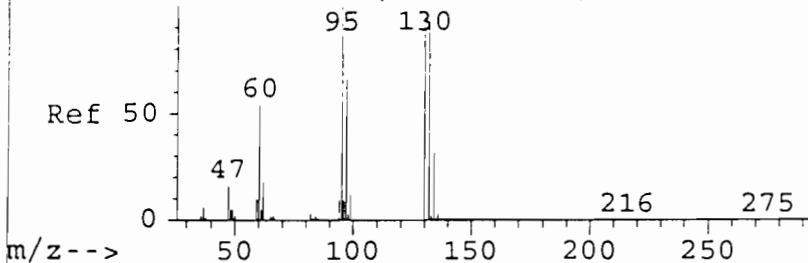
P05507.D CLPW.M Wed Feb 12 15:58:32 1997

JON

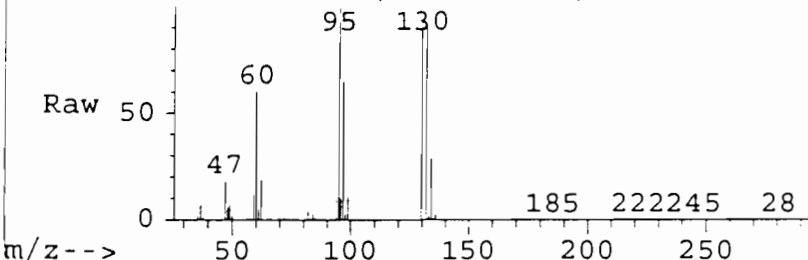
V C148

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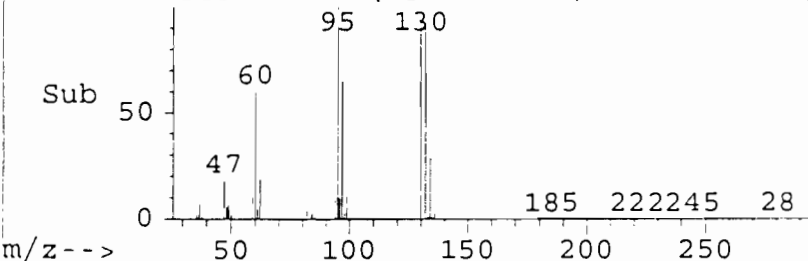
AbundanceScan 1484 (13.269 min): P05322.D (



AbundanceScan 1443 (13.033 min): P05507.D (



AbundanceScan 1443 (13.033 min): P05507.D (



#24

Trichloroethene

Concen: 656.21 UG/L

RT: 13.03 min Scan# 1443

Delta R.T. 0.05 min

Lab File: P05507.D

Acq: 28 Jan 97 5:19 pm

Tgt Ion:130 Resp: 2088881

Ion Ratio Lower Upper

130 100

132 99.3 82.0 122.0

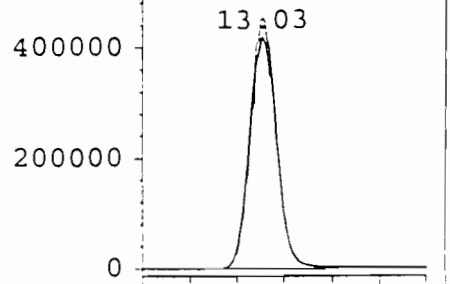
95 108.0 80.0 120.0

0 0.0 0.0 0.0

AbundanceIon 130.00 (129

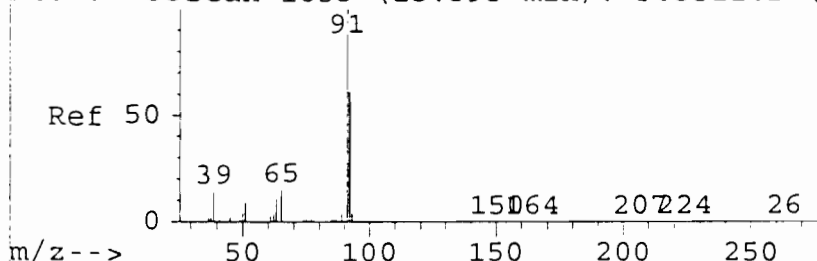
600000 Ion 132.00 (131

Ion 95.00 (94.

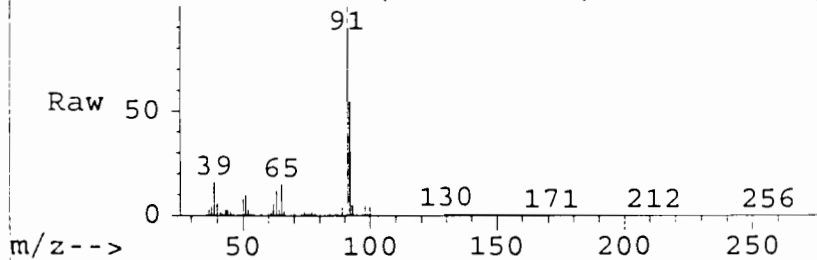


Time-->12.71 13.34

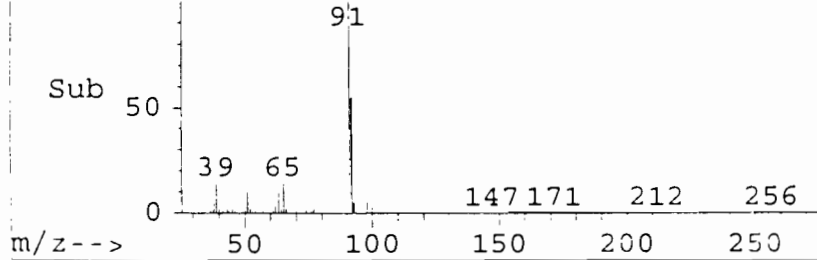
AbundanceScan 1855 (15.393 min): P05322.D (



AbundanceScan 1813 (15.151 min): P05507.D (



AbundanceScan 1813 (15.151 min): P05507.D (



#36

Toluene

Concen: 10.19 UG/L

RT: 15.15 min Scan# 1813

Delta R.T. 0.06 min

Lab File: P05507.D

Acq: 28 Jan 97 5:19 pm

Tgt Ion:91 Resp: 55106

Ion Ratio Lower Upper

91 100

92 54.8 40.1 80.1

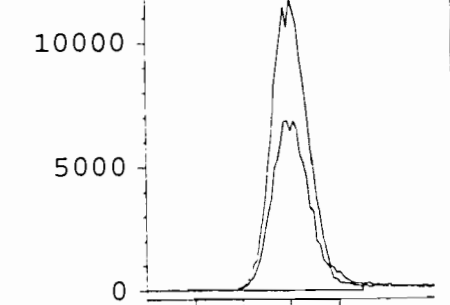
0 0.0 0.0 0.0

0 0.0 0.0 0.0

AbundanceIon 91.00 (90.

Ion 92.00 (91.

15.15



Time-->14.89 15.32

Sample Name: 9702039

Misc. Info: B60222 H5970-3 1/27/97 5.0ML

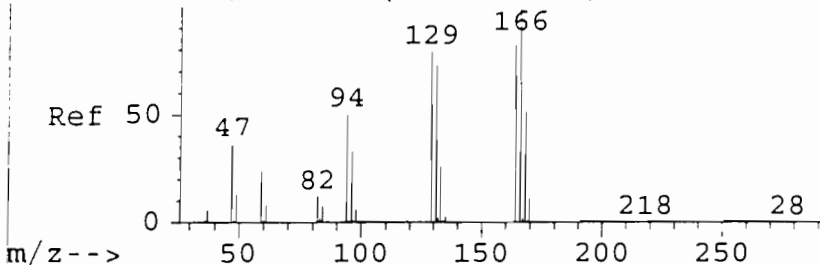
P05507.D CLPW.M Wed Feb 12 15:58:38 1997

JON

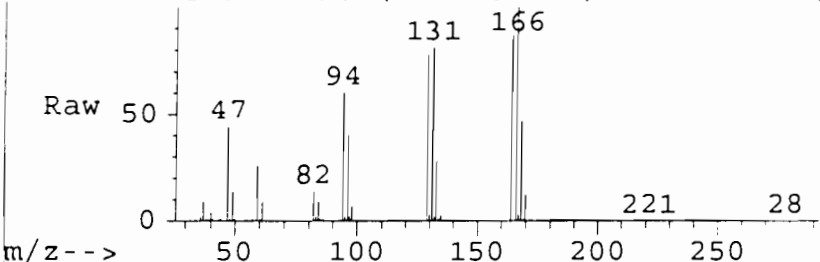
V C149

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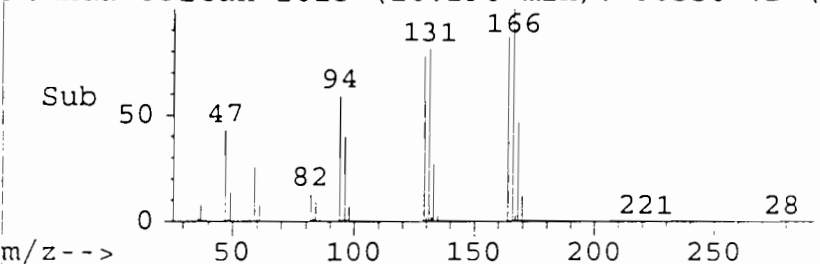
AbundanceScan 2055 (16.538 min): P05322.D (



AbundanceScan 2013 (16.296 min): P05507.D (



AbundanceScan 2013 (16.296 min): P05507.D (



#37

Tetrachloroethene

Concen: 15.20 UG/L

RT: 16.30 min Scan# 2013

Delta R.T. 0.04 min

Lab File: P05507.D

Acq: 28 Jan 97 5:19 pm

Tgt Ion:164 Resp: 48175

Ion Ratio Lower Upper

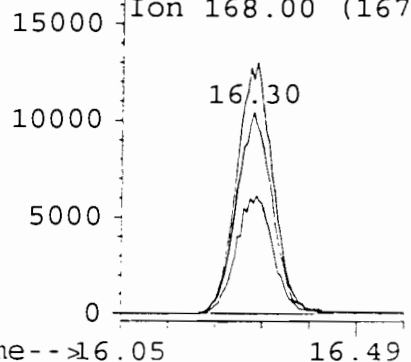
164 100

166 115.6 109.5 149.5

168 54.5 42.4 82.4

0 0.0 0.0 0.0

AbundanceIon 164.00 (163
Ion 166.00 (165
Ion 168.00 (167



Sample Name: 9702039

Misc. Info: B60222 H5970-3 1/27/97 5.0ML

P05507.D CLPW.M Wed Feb 12 15:58:40 1997

JON

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Library Search Compound Report

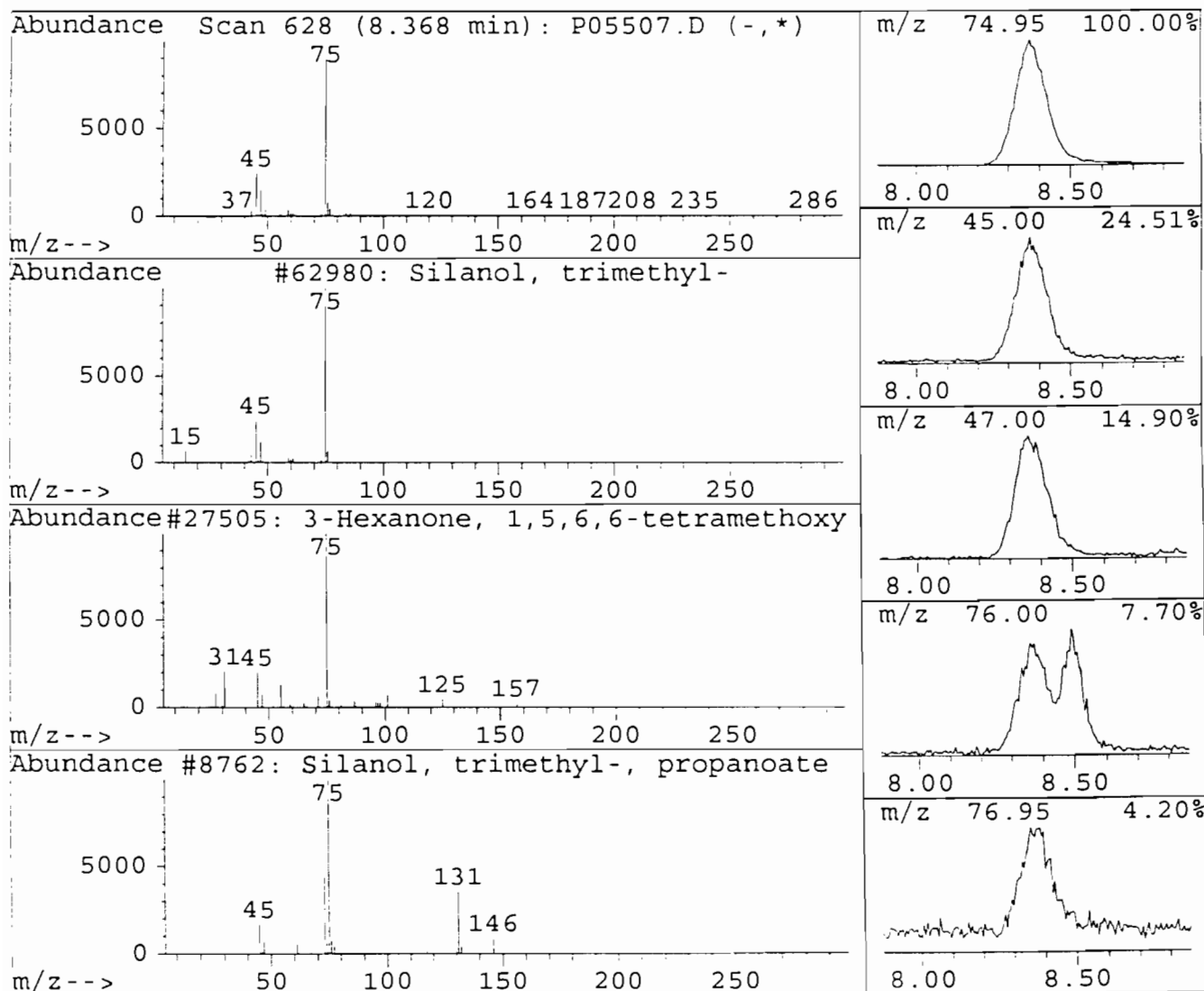
Data File : S:\MS\HP#3\JAN97\P05507.D
Acq On : 28 Jan 97 17:19
Sample : 9702039
Misc : B60222 H5970-3 1/27/97 5.0ML

Vial: 12
Operator: GLENN
Inst : 5970 - In
Multiplr: 1.00

Method : S:\MS\HP#3\JAN97\CLPW.M
Title : VOA CLP WATER METHOD
Library : C:\DATABASE\NBS75K.L

R.T.	Conc	Area	Relative to ISTD	R.T.
8.37	18.79 UG/L	203678	Bromochloromethane	10.99

Hit# of 10	Tentative ID	MW	MolForm	CAS#	Qual
1	Silanol, trimethyl-	90	C3H10OSi	001066-40-6	86
2	3-Hexanone, 1,5,6,6-tetramethoxy-	220	C10H20O5	053914-29-7	40
3	Silanol, trimethyl-, propanoate	146	C6H14O2Si	016844-98-7	40
4	Acetic acid, (trimethylsilyl)-	132	C5H12O2Si	002345-38-2	39
5	3-(Methylthio)-2-butanone	118	C5H10OS	053475-15-3	32



V C151

Library Search Compound Report

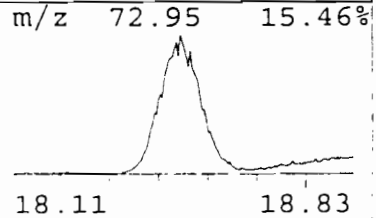
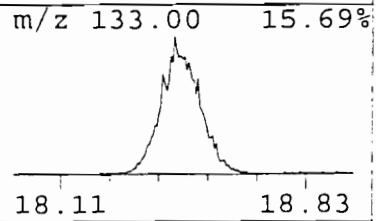
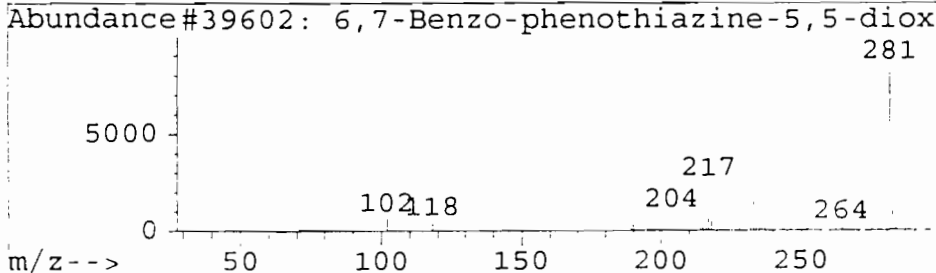
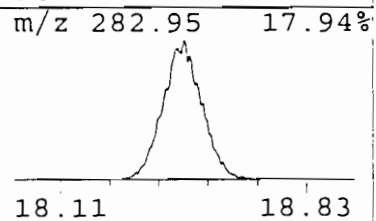
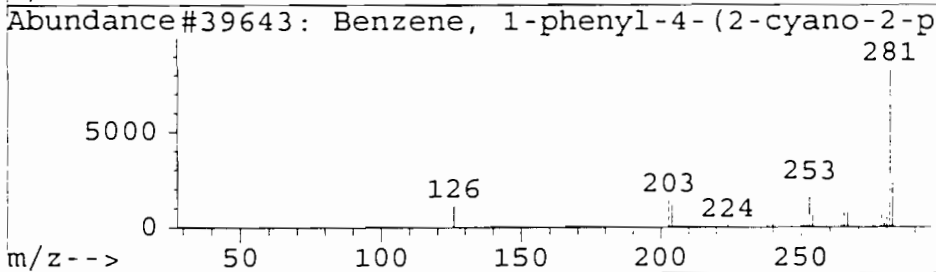
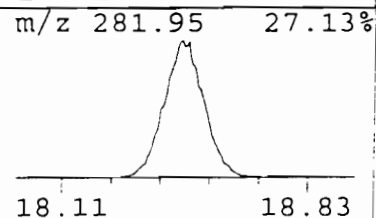
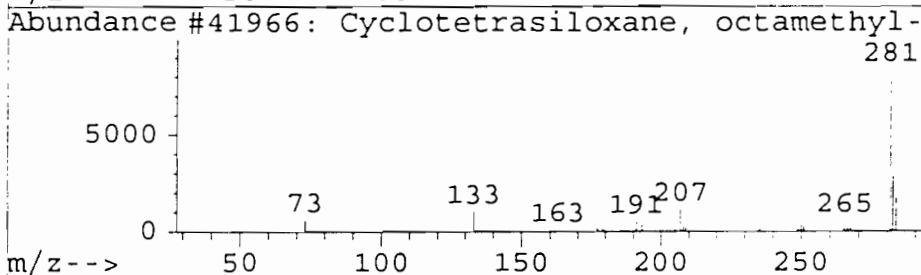
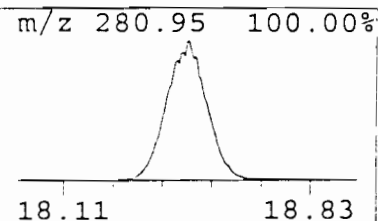
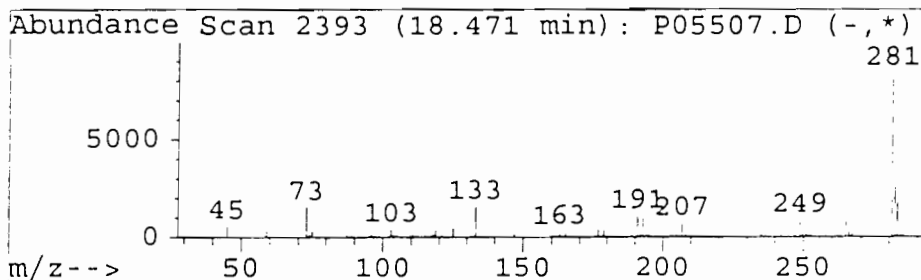
Data File : S:\MS\HP#3\JAN97\P05507.D
Acq On : 28 Jan 97 17:19
Sample : 9702039
Misc : B60222 H5970-3 1/27/97 5.0ML

Vial: 12
Operator: GLENN
Inst : 5970 - In
Multiplr: 1.00

Method : S:\MS\HP#3\JAN97\CLPW.M
Title : VOA CLP WATER METHOD
Library : C:\DATABASE\NBS75K.L

R.T.	Conc	Area	Relative to ISTD	R.T.
18.47	52.93 UG/L	827595	Chlorobenzene-d5	17.68

Hit# of 10	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclotetrasiloxane, octamethyl-	296	C8H24O4Si4	000556-67-2	64
2	Benzene, 1-phenyl-4-(2-cyano-2-phen	281	C21H15N	027869-56-3	50
3	6,7-Benzo-phenothiazine-5,5-dioxide	281	C16H11NO2S	000000-00-0	9
4	2(1H)-Pyrimidinone, 5-chloro-4,6-di	282	C16H11ClN2O	028567-83-1	7
5	Morphinan, 7,8-didehydro-3-methoxy-	281	C19H23NO	001816-06-4	5



V C152

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

B60222DL

Lab Name: H2M LABS INC. Contract: _____

Lab Code: _____ Case No.: RA096 SAS No.: _____ SDG No.: NDEC012

Matrix: (soil/water) WATER Lab Sample ID: 9702039DL 1:5

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: P05532.D

Level: (low/med) LOW Date Received: 01/23/97

% Moisture: not dec. _____ Date Analyzed: 01/29/97

GC Column: RTX502 ID: 0.53 (mm) Dilution Factor: 5.0

Soil Extract Volume _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

CAS NO.	COMPOUND	(ug/L or ug/Kg)	UG/L	Q
74-87-3	Chloromethane	50	U	
74-83-9	Bromomethane	50	U	
75-01-4	Vinyl Chloride	50	U	
75-00-3	Chloroethane	50	U	
75-09-2	Methylene Chloride	50	U	
67-64-1	Acetone	110	D	
75-15-0	Carbon Disulfide	50	U	
75-35-4	1,1-Dichloroethene	50	U	
75-34-4	1,1-Dichloroethane	50	U	
540-59-0	1,2-Dichloroethene (total)	8	JD	
67-66-3	Chloroform	50	U	
107-06-2	1,2-Dichloroethane	50	U	
78-93-3	2-Butanone	50	U	
71-55-6	1,1,1-Trichloroethane	180	D	
56-23-5	Carbon Tetrachloride	50	U	
75-27-4	Bromodichloromethane	50	U	
78-87-5	1,2-Dichloropropane	50	U	
10061-01-5	cis-1,3-Dichloropropene	50	U	
79-01-6	Trichloroethene	710	D	
71-43-2	Benzene	50	U	
124-48-1	Dibromochloromethane	50	U	
10061-02-6	trans-1,3-Dichloropropene	50	U	
79-00-5	1,1,2-Trichloroethane	50	U	
75-25-2	Bromoform	50	U	
108-10-1	4-Methyl-2-Pentanone	50	U	
591-78-6	2-Hexanone	50	U	
127-18-4	Tetrachloroethene	14	JD	
79-34-5	1,1,2,2-Tetrachloroethane	50	U	
108-88-3	Toluene	10	JD	
108-90-7	Chlorobenzene	50	U	
100-41-4	Ethylbenzene	50	U	
100-42-5	Styrene	50	U	
1330-20-7	Xylene (total)	50	U	

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

B60222DL

Lab Name: H2M LABS INC. Contract: _____
Lab Code: _____ Case No.: RA096 SAS No.: _____ SDG No.: NDEC012
Matrix: (soil/water) WATER Lab Sample ID: 9702039DL 1:5
Sample wt/vol: 5.0 (g/ml) ML Lab File ID: P05532.D
Level: (low/med) LOW Date Received: 01/23/97
% Moisture: not dec. _____ Date Analyzed: 01/29/97
GC Column: RTX502 ID: 0.53 (mm) Dilution Factor: 5.0
Soil Extract Volume _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

Number TICs found: 1 (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND	RT	EST. CONC.	Q
1. 000556-67-2	Cyclotetrasiloxane, octamethyl-	18.51	28	JND

Quantitation Report

Data File : S:\MS\HP#3\JAN97\P05532.D

Acq On : 29 Jan 97 8:13 pm

Sample : 9702039DL 1:5

Misc : B60222 H5970-3 1/29/97

Quant Time: Feb 11 18:08 1997

Vial: 14

Operator: GLENN

Inst : 5970 - In

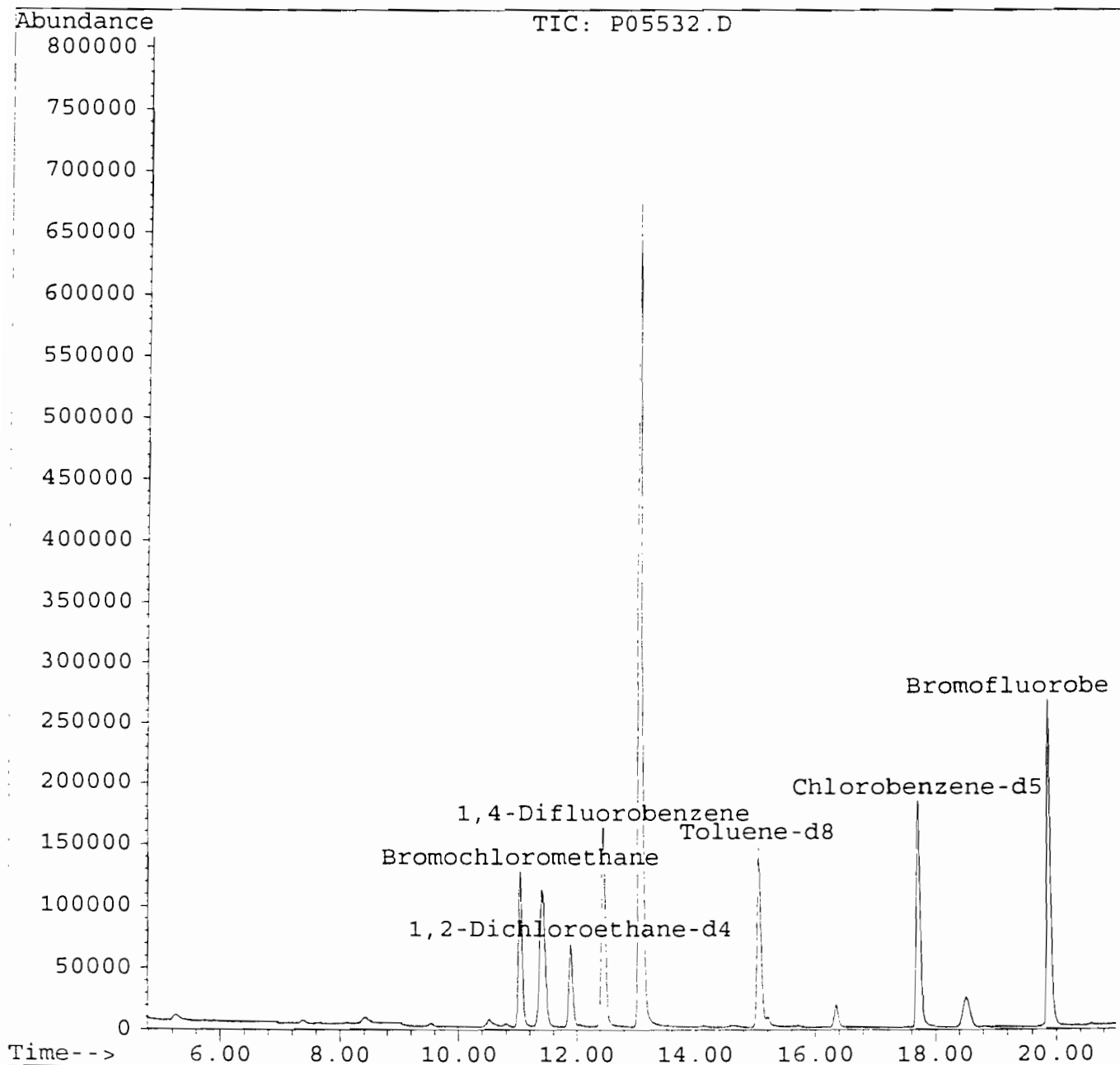
Multiplr: 1.00

Method : S:\MS\HP#3\JAN97\CLPW.M

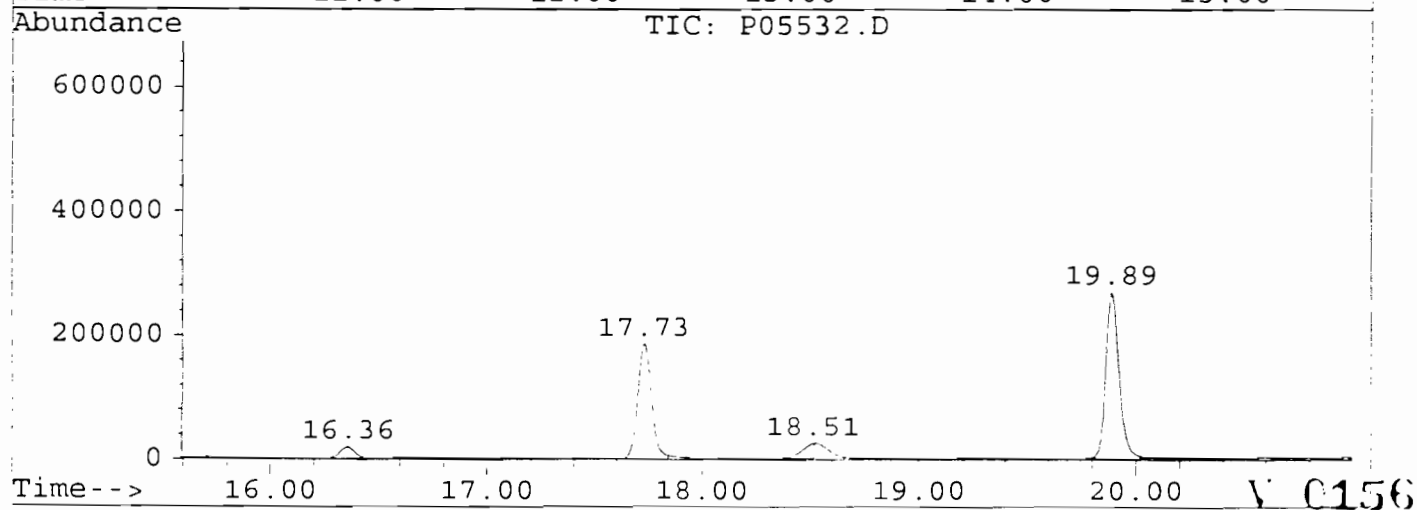
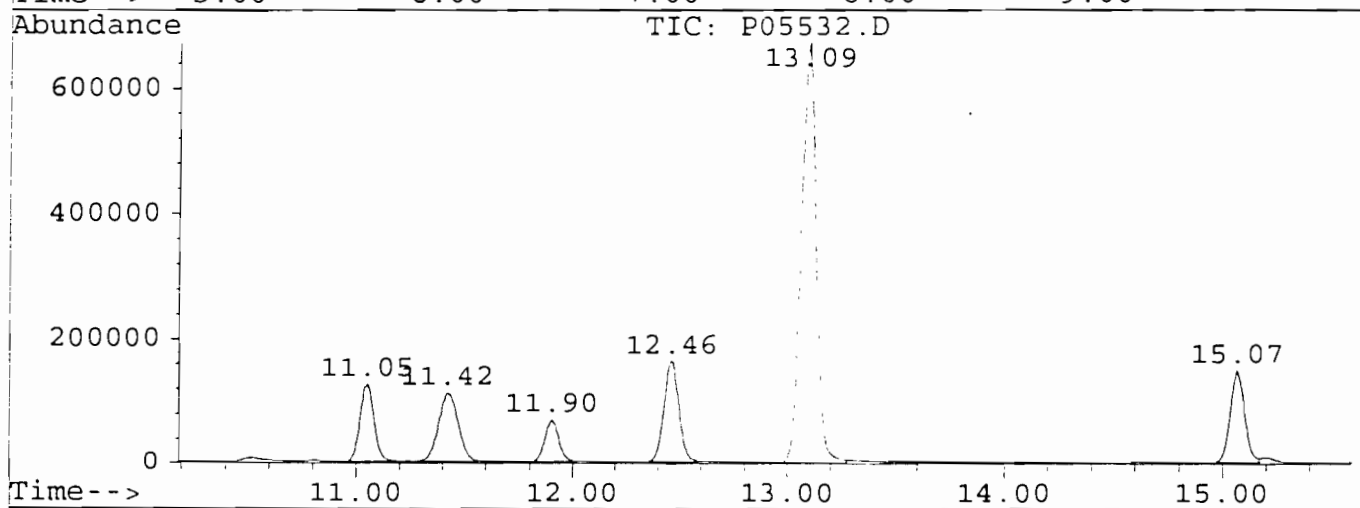
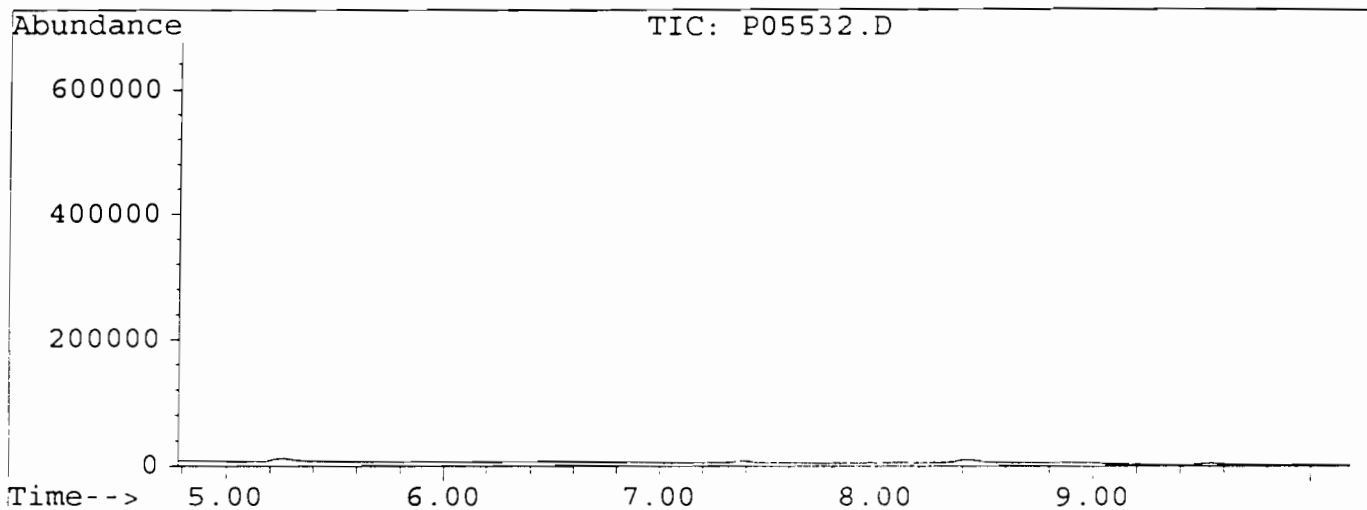
Title : VOA CLP WATER METHOD

Last Update : Thu Jan 16 09:32:21 1997

Response via : Single Level Calibration



File : S:\MS\HP#3\JAN97\P05532.D
Operator : GLENN
Acquired : 29 Jan 97 20:13 using AcqMethod CLPW
Instrument : 5970 - In
Sample Name: 9702039DL 1:5
Misc Info : B60222 H5970-3 1/29/97 5.0ML 10UL ANTIFO
Vial Number: 14



Quantitation Report

Data File : S:\MS\HP#3\JAN97\P05532.D Vial: 14
 Acq On : 29 Jan 97 20:13 Operator: GLENN
 Sample : 9702039DL 1:5 Inst : 5970 - In
 Misc : B60222 H5970-3 1/29/97 5.0ML 10UL AN Multiplr: 1.00
 Quant Time: Feb 11 18:08 1997

Method : C:\HPCHEM\1\METHODS\CLPW.M
 Title : VOA CLP WATER METHOD
 Last Update : Wed Jan 29 14:26:15 1997
 Response via : Continuing Cal File: C:\HPCHEM\1\DATA\P05519.D

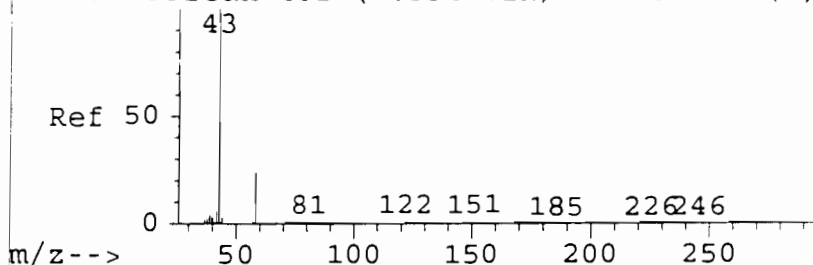
Internal Standards	R.T.	Q Ion	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	11.05	128	74735	50.00	UG/L	0.00
21) 1,4-Difluorobenzene	12.47	114	284111	50.00	UG/L	0.00
33) Chlorobenzene-d5	17.73	117	229416	50.00	UG/L	0.00
System Monitoring Compounds						
					%Recovery	
18) 1,2-Dichloroethane-d4	11.90	65	118955	56.51	UG/L	113.02%
34) Toluene-d8	15.07	98	231753	48.74	UG/L	97.49%
43) Bromofluorobenzene	19.89	95	226694	53.09	UG/L	106.19%
Target Compounds						
					Qvalue	
8) Acetone	7.38	43	11223	21.39	UG/L	75
14) cis-,1,2-Dichloroethene	10.51	96	4735	1.43	UG/L	88
15) 1,2-Dichloroethene (total)	10.51	96	5064m	1.55	UG/L	1
22) 1,1,1-Trichloroethane	11.42	97	215555	36.15	UG/L	95
24) Trichloroethene	13.09	130	509033	142.35	UG/L	93
36) Toluene	15.21	91	11920	1.93	UG/L	90
37) Tetrachloroethene	16.35	164	10246	2.85	UG/L	88

fu 2/13/97

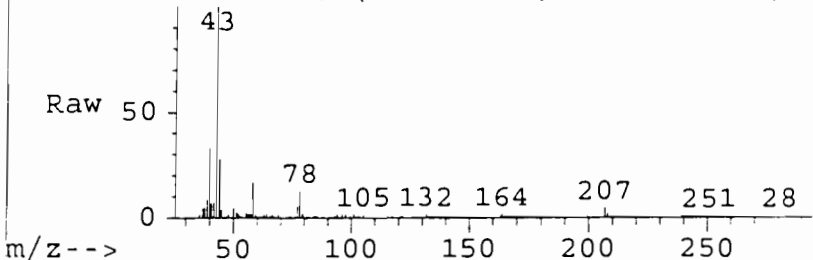
Tentatively Identified Compound (LSC) summary
Operator ID: GLENN Date Acquired: 29 Jan 97 20:13
Data File: S:\MS\HP#3\JAN97\P05532.D
Name: 9702039DL 1:5
Misc: B60222 H5970-3 1/29/97 5.0ML 10UL ANTIFO
Method: CLPW
Title: VOA CLP WATER METHOD
Library Searched: NBS75K.L

TIC Top Hit name	RT	EstConc	Units	Area	IntStd	ISRT	ISArea	ISConc
yclotetrasiloxane,	18.51	5.7	UG/L	91931	ISTD03	17.73	810434	50.0

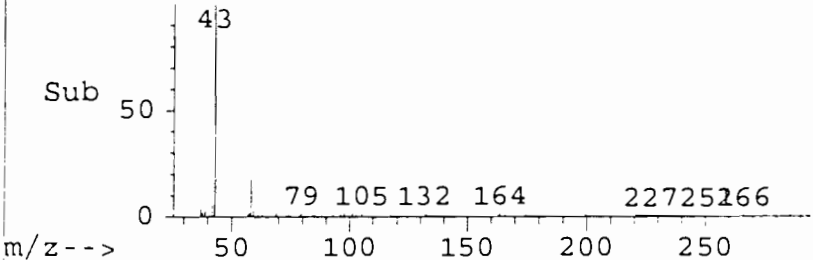
AbundanceScan 482 (7.534 min): P05322.D (-,



AbundanceScan 455 (7.380 min): P05532.D (*)



AbundanceScan 455 (7.380 min): P05532.D (-,



#8

Acetone

Concen: 21.39 UG/L

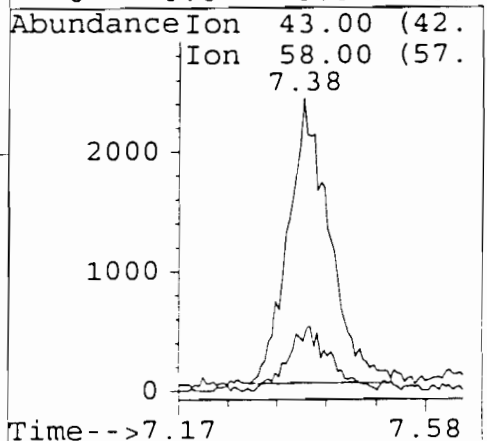
RT: 7.38 min Scan# 455

Delta R.T. -0.02 min

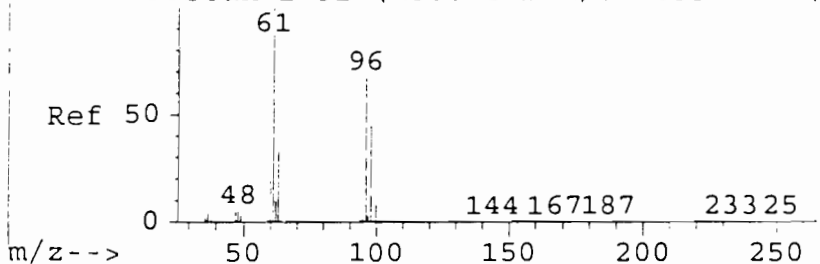
Lab File: P05532.D

Acq: 29 Jan 97 8:13 pm

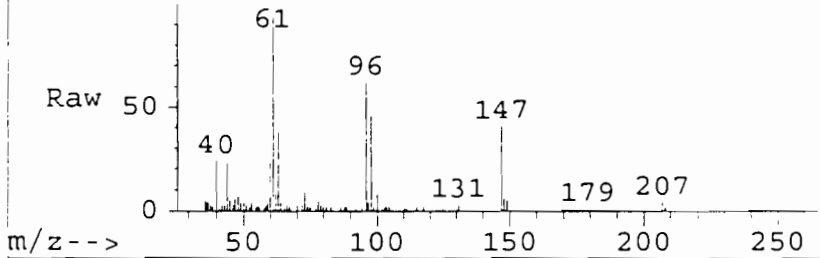
Tgt Ion:	43	Resp:	11223
Ion	Ratio	Lower	Upper
43	100		
58	16.4	9.7	49.7
0	0.0	0.0	0.0
0	0.0	0.0	0.0



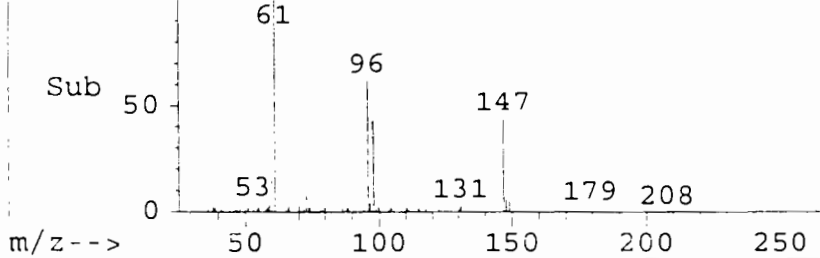
AbundanceScan 1032 (10.682 min): P05322.D (



AbundanceScan 1002 (10.511 min): P05532.D (



AbundanceScan 1002 (10.511 min): P05532.D (



#14

cis-,1,2-Dichloroethene

Concen: 1.43 UG/L

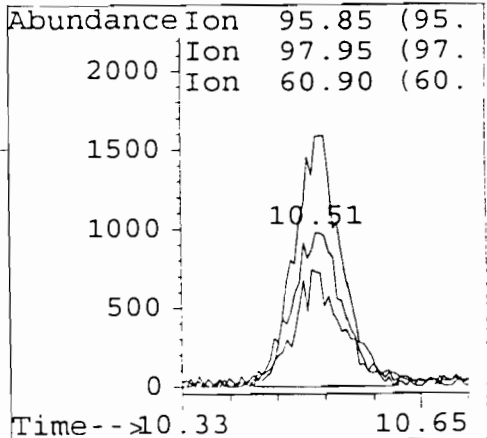
RT: 10.51 min Scan# 1002

Delta R.T. -0.01 min

Lab File: P05532.D

Acq: 29 Jan 97 8:13 pm

Tgt Ion:	95.85	Resp:	4735
Ion	Ratio	Lower	Upper
96	100		
98	69.2	53.1	79.6
61	150.0	105.0	157.5
0	0.0	0.0	0.0



Sample Name: 9702039DL 1:5

Misc. Info: B60222 H5970-3 1/29/97 5.0ML 10UL ANTIFO

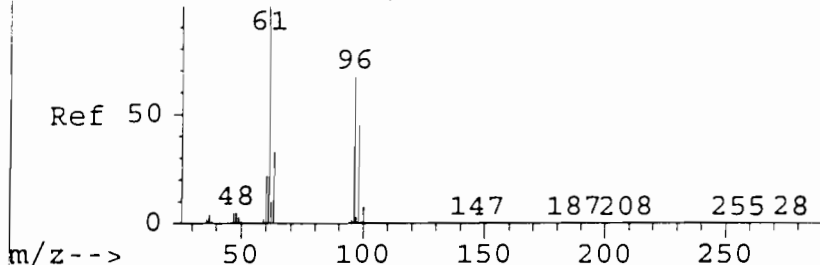
P05532.D CLPW.M Wed Feb 12 16:05:15 1997

JON

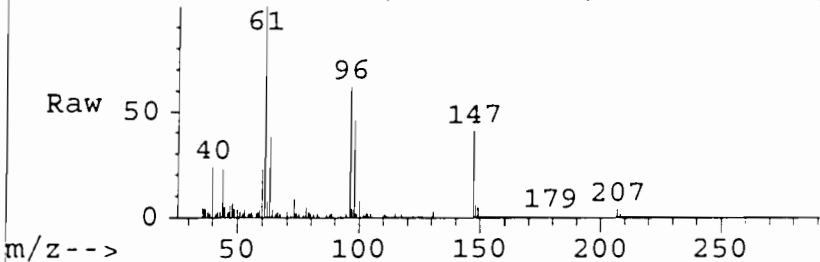
V 0159

Page 3

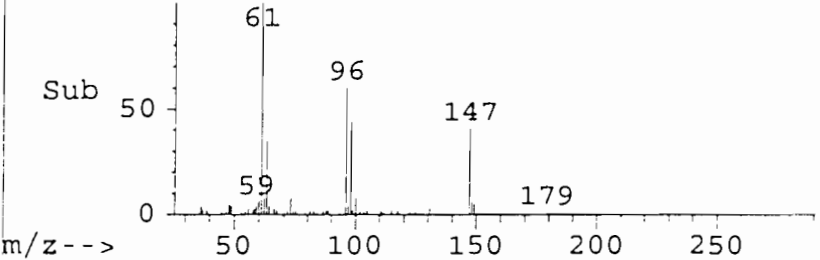
AbundanceScan 1032 (10.682 min): P05322.D (



AbundanceScan 1002 (10.511 min): P05532.D (



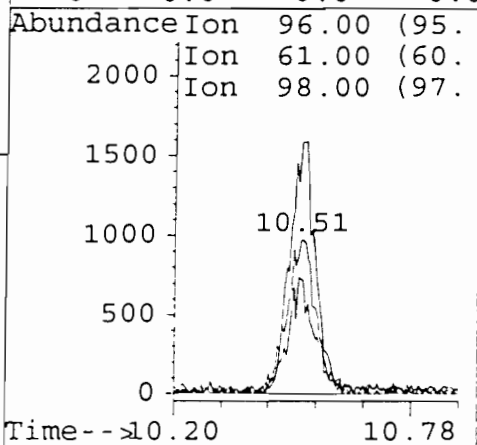
AbundanceScan 1002 (10.511 min): P05532.D (



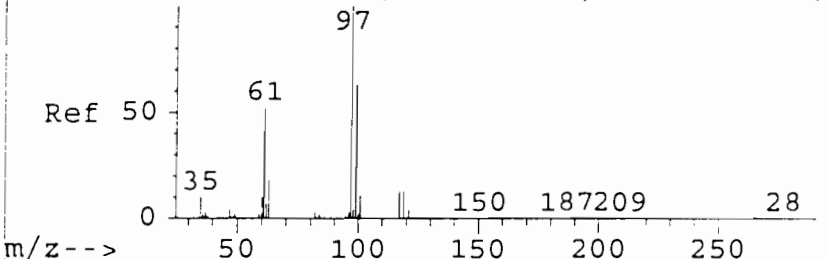
#15

1,2-Dichloroethene (total)
Concen: 1.55 UG/L m
RT: 10.51 min Scan# 1002
Delta R.T. 1.63 min
Lab File: P05532.D
Acq: 29 Jan 97 8:13 pm

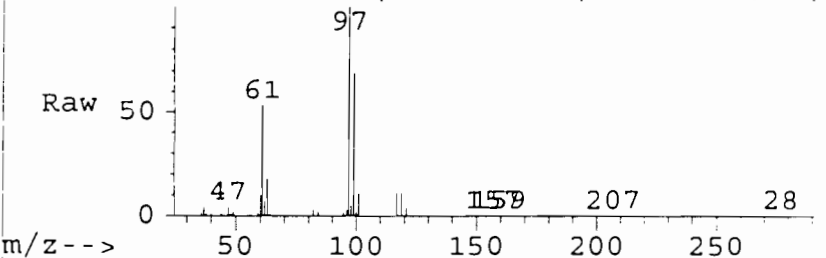
Tgt Ion:96	Resp:	5064
Ion Ratio	Lower	Upper
96	100	
61	162.1	111.6 151.6#
98	74.3	44.6 84.6
0	0.0	0.0 0.0



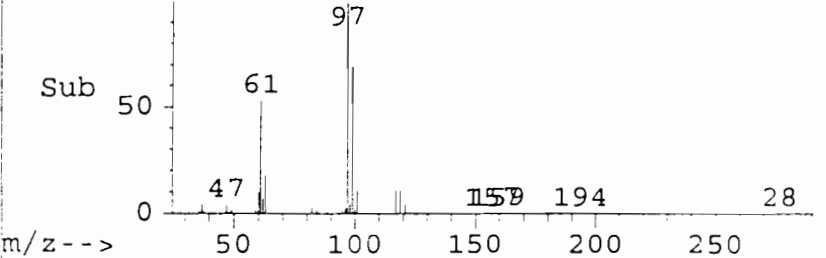
AbundanceScan 1193 (11.604 min): P05322.D (



AbundanceScan 1161 (11.421 min): P05532.D (



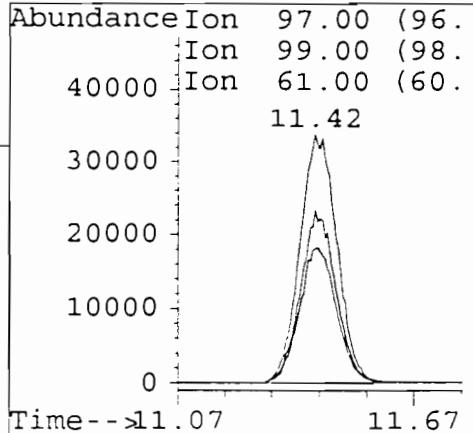
AbundanceScan 1161 (11.421 min): P05532.D (



#22

1,1,1-Trichloroethane
Concen: 36.15 UG/L
RT: 11.42 min Scan# 1161
Delta R.T. -0.01 min
Lab File: P05532.D
Acq: 29 Jan 97 8:13 pm

Tgt Ion:97	Resp:	215555
Ion Ratio	Lower	Upper
97	100	
99	68.7	46.6 86.6
61	53.0	27.5 67.5
0	0.0	0.0 0.0

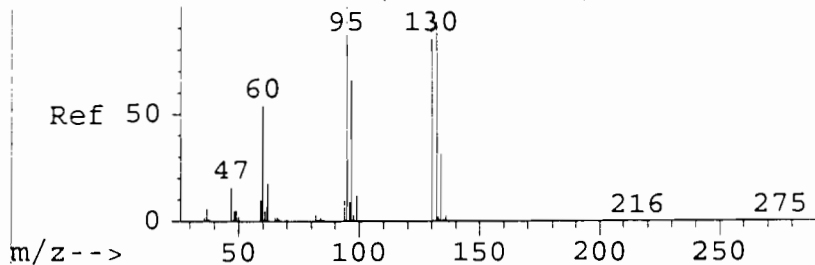


Sample Name: 9702039DL 1:5

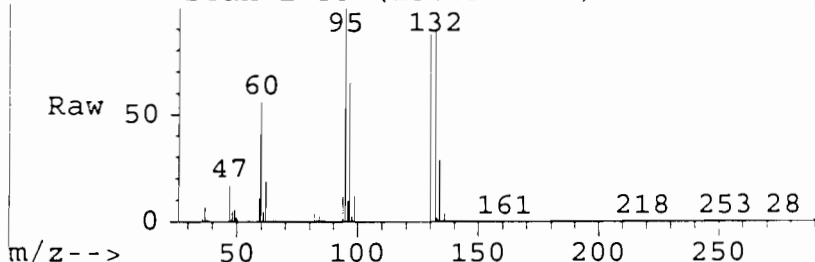
Misc. Info: B60222 H5970-3 1/29/97 5.0ML 10UL ANTIFO
P05532.D CLPW.M Wed Feb 12 16:05:22 1997 JON

V C160

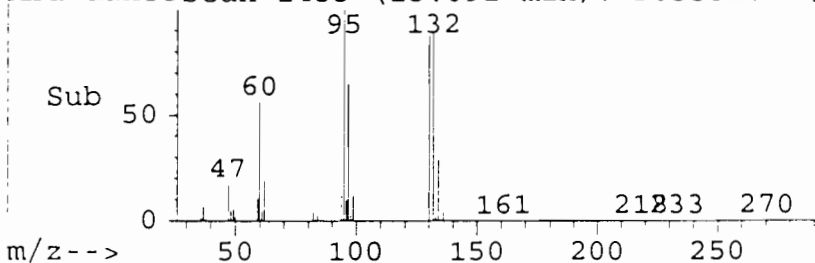
AbundanceScan 1484 (13.269 min): P05322.D (



AbundanceScan 1453 (13.092 min): P05532.D (



AbundanceScan 1453 (13.092 min): P05532.D (



#24

Trichloroethene

Concen: 142.35 UG/L

RT: 13.09 min Scan# 1453

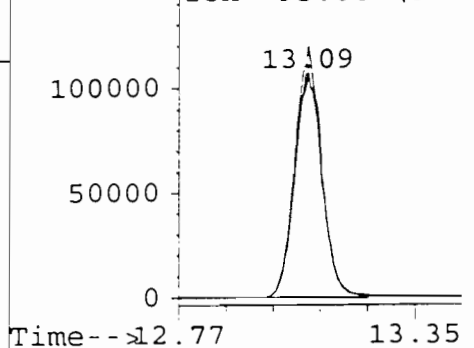
Delta R.T. -0.01 min

Lab File: P05532.D

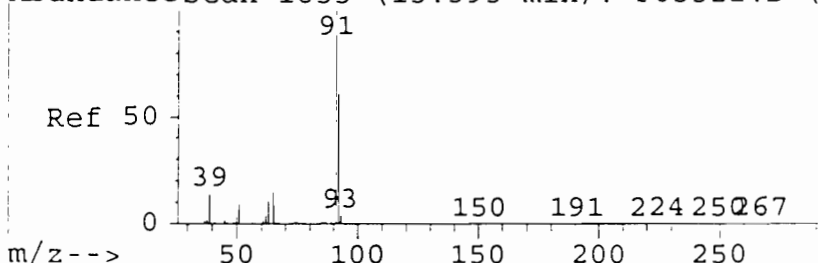
Acq: 29 Jan 97 8:13 pm

Tgt Ion:	130	Resp:	509033
Ion Ratio	Lower	Upper	
130	100		
132	101.6	82.0	122.0
95	113.0	80.0	120.0
0	0.0	0.0	0.0

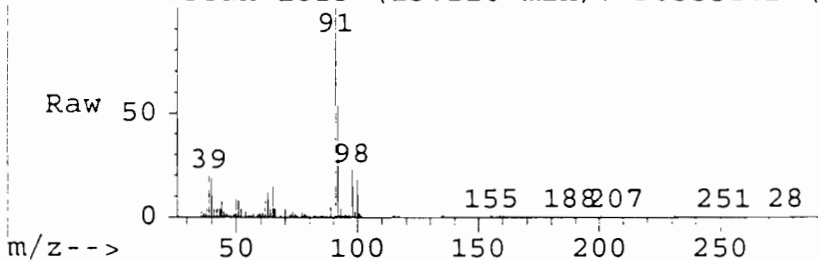
Abundance Ion 130.00 (129
Ion 132.00 (131
Ion 95.00 (94.



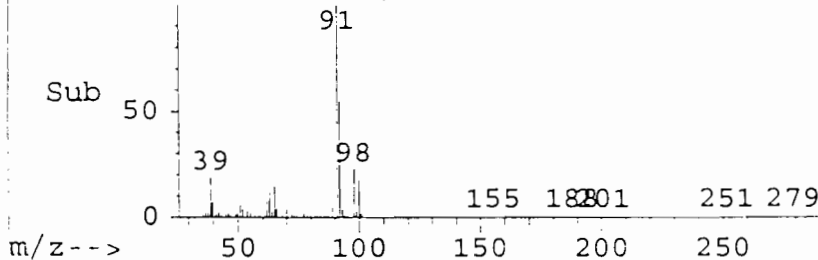
AbundanceScan 1855 (15.393 min): P05322.D (



AbundanceScan 1823 (15.210 min): P05532.D (



AbundanceScan 1823 (15.210 min): P05532.D (



#36

Toluene

Concen: 1.93 UG/L

RT: 15.21 min Scan# 1823

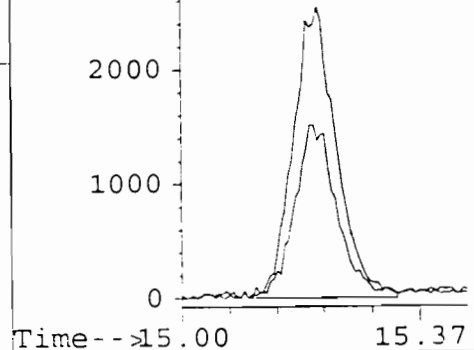
Delta R.T. -0.01 min

Lab File: P05532.D

Acq: 29 Jan 97 8:13 pm

Tgt Ion:	91	Resp:	11920
Ion Ratio	Lower	Upper	
91	100		
92	52.9	40.1	80.1
0	0.0	0.0	0.0
0	0.0	0.0	0.0

Abundance Ion 91.00 (90.
Ion 92.00 (91.
15.21



Sample Name: 9702039DL 1:5

Misc. Info: B60222 H5970-3 1/29/97 5.0ML 10UL ANTIFO

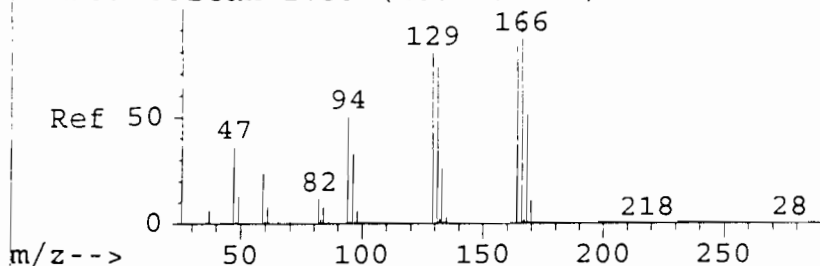
P05532.D CLPW.M Wed Feb 12 16:05:30 1997

JON

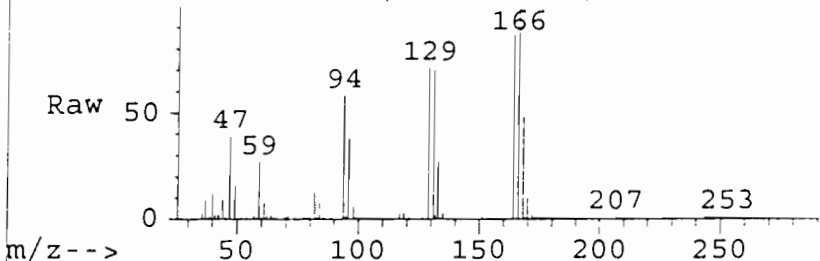
V 0161

Page 5

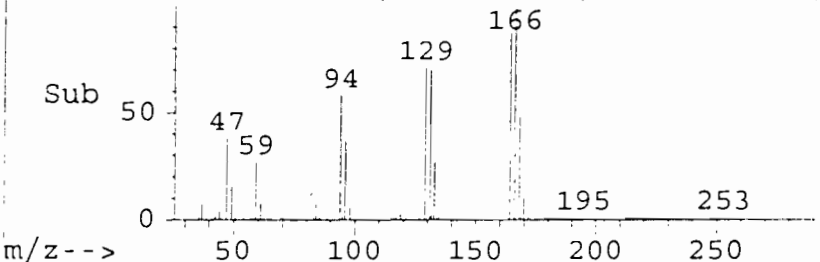
AbundanceScan 2055 (16.538 min): P05322.D (



AbundanceScan 2022 (16.349 min): P05532.D (



AbundanceScan 2022 (16.349 min): P05532.D (



#37

Tetrachloroethene

Concen: 2.85 UG/L

RT: 16.35 min Scan# 2022

Delta R.T. -0.01 min

Lab File: P05532.D

Acq: 29 Jan 97 8:13 pm

Tgt Ion:164 Resp: 10246

Ion Ratio Lower Upper

164 100

166 114.6 109.5 149.5

168 55.6 42.4 82.4

0 0.0 0.0 0.0

AbundanceIon 164.00 (163

4000 Ion 166.00 (165

Ion 168.00 (167

3000

2000

1000

0

16.35

16.35

16.35

16.35

16.35

16.35

16.35

Time-->16.15 16.54

Sample Name: 9702039DL 1:5

Misc. Info: B60222 H5970-3 1/29/97 5.0ML 10UL ANTIFO

P05532.D CLPW.M

Wed Feb 12 16:05:35 1997

JON

V C162

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Library Search Compound Report

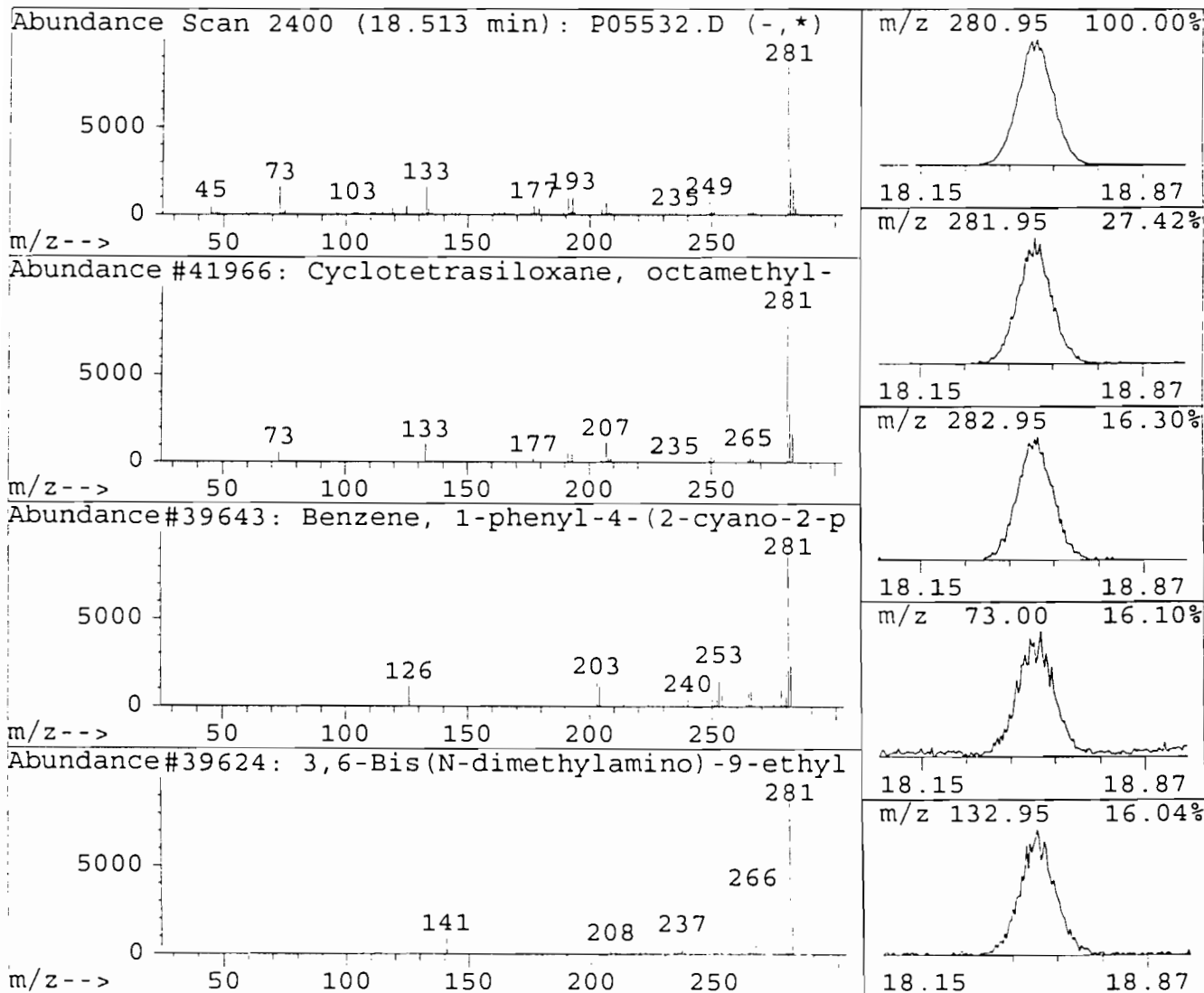
Data File : S:\MS\HP#3\JAN97\P05532.D
Acq On : 29 Jan 97 20:13
Sample : 9702039DL 1:5
Misc : B60222 H5970-3 1/29/97 5.0ML 10UL AN

Vial: 14
Operator: GLENN
Inst : 5970 - In
Multiplr: 1.00

Method : S:\MS\HP#3\JAN97\CLPW.M
Title : VOA CLP WATER METHOD
Library : C:\DATABASE\NBS75K.L

R.T.	Conc	Area	Relative to ISTD	R.T.
18.51	5.67 UG/L	91931	Chlorobenzene-d5	17.73

Hit# of 10	Tentative ID	MW	MolForm	CAS#	Qual
1	Cyclotetrasiloxane, octamethyl-	296	C8H24O4Si4	000556-67-2	72
2	Benzene, 1-phenyl-4-(2-cyano-2-phen	281	C21H15N	027869-56-3	50
3	3,6-Bis(N-dimethylamino)-9-ethylcar	281	C18H23N3	057103-04-5	28
4	2(1H)-Pyrimidinone, 5-chloro-4,6-di	282	C16H11ClN2O	028567-83-1	9
5	6,7-Benzo-phenothiazine-5,5-dioxide	281	C16H11NO2S	000000-00-0	9



V C163

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TRIP BLANK

Lab Name: H2M LABS INC. Contract: _____

Lab Code: _____ Case No.: RA096 SAS No.: _____ SDG No.: NDEC012

Matrix: (soil/water) WATER Lab Sample ID: 9702046

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: P05541.D

Level: (low/med) LOW Date Received: 01/23/97

% Moisture: not dec. _____ Date Analyzed: 01/30/97

GC Column: RTX502. ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

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

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

TRIP BLANK

Lab Name: H2M LABS INC. Contract: _____
Lab Code: _____ Case No.: RA096 SAS No.: _____ SDG No.: NDEC012
Matrix: (soil/water) WATER Lab Sample ID: 9702046
Sample wt/vol: 5.0 (g/ml) ML Lab File ID: P05541.D
Level: (low/med) LOW Date Received: 01/23/97
% Moisture: not dec. _____ Date Analyzed: 01/30/97
GC Column: RTX502. ID: 0.53 (mm) Dilution Factor: 1.0
Soil Extract Volume _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

Number TICs found: 0 (ug/L or ug/Kg) UG/L

CAS NO.	COMPOUND	RT	EST. CONC.	Q

Quantitation Report

Data File : S:\MS\HP#3\JAN97\P05541.D

Vial: 5

Acq On : 30 Jan 97 2:23 pm

Operator: GLENN

Sample : 9702046

Inst : 5970 - In

Misc : TRIP BLANK H5970-3 1/30/97 5.0ML

Multiplr: 1.00

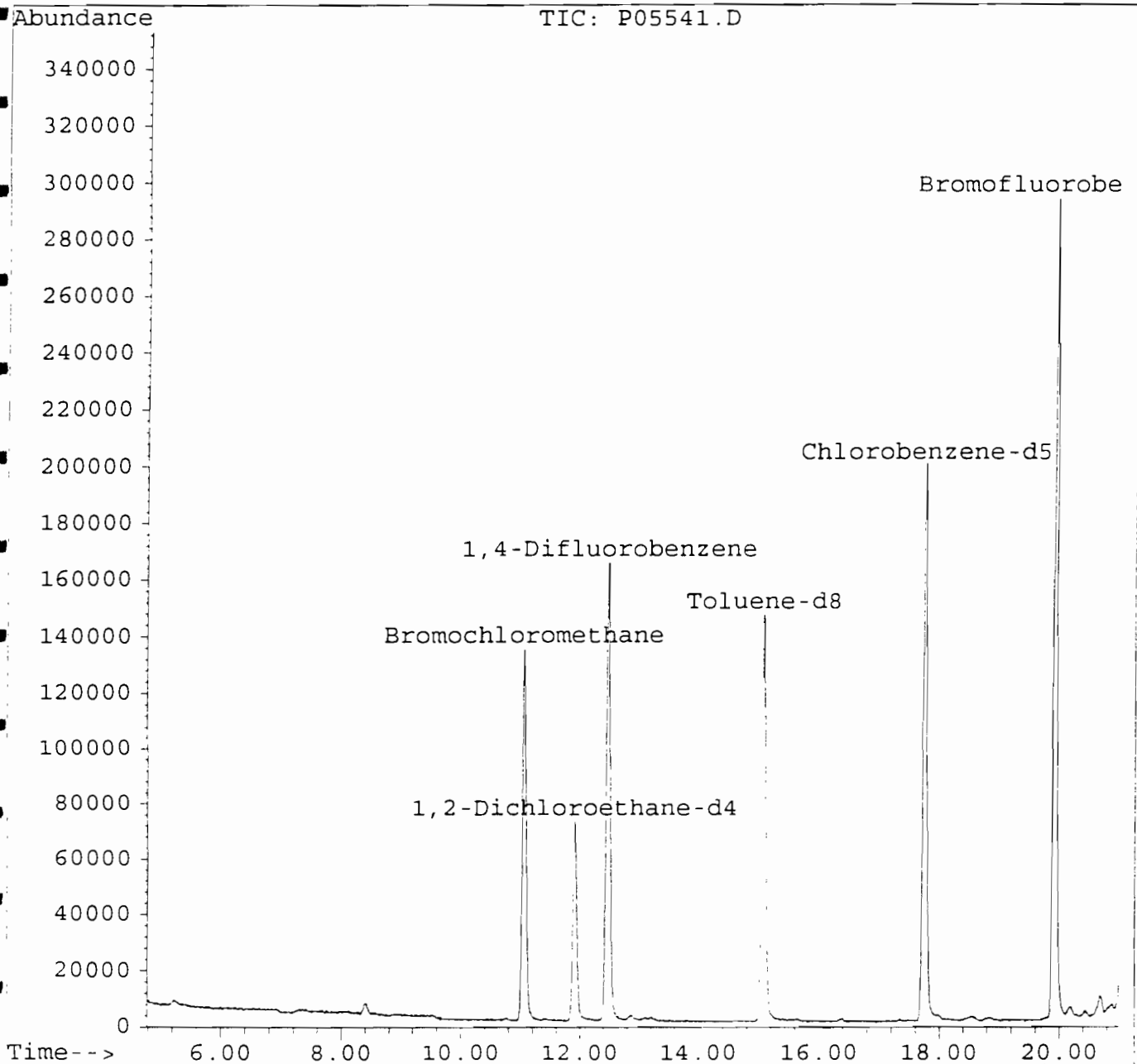
Quant Time: Feb 11 18:16 1997

Method : S:\MS\HP#3\JAN97\CLPW.M

Title : VOA CLP WATER METHOD

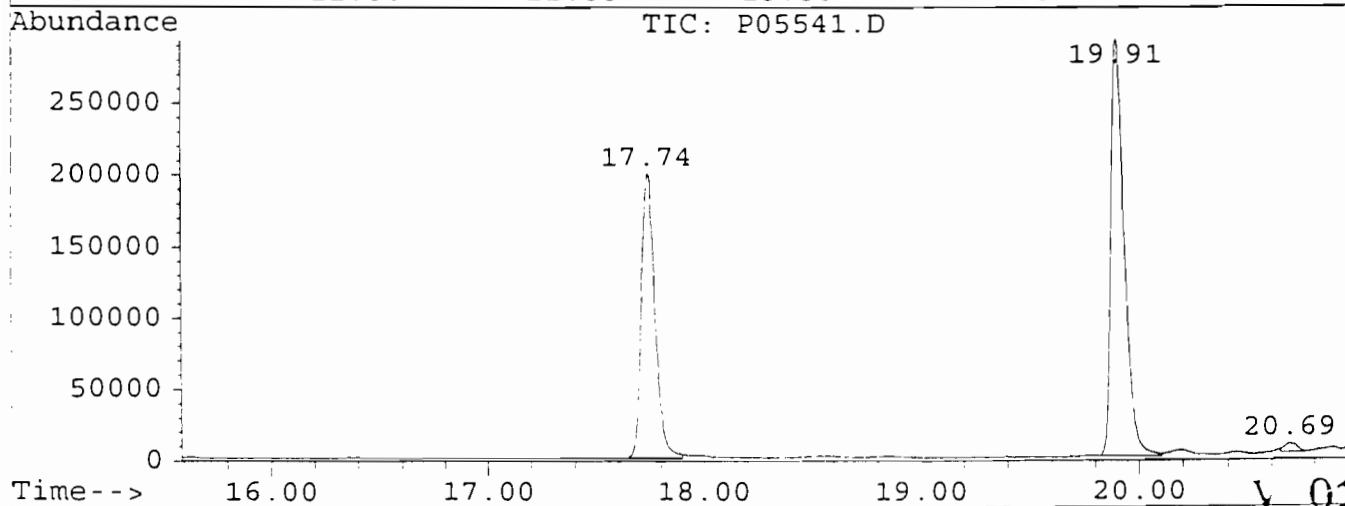
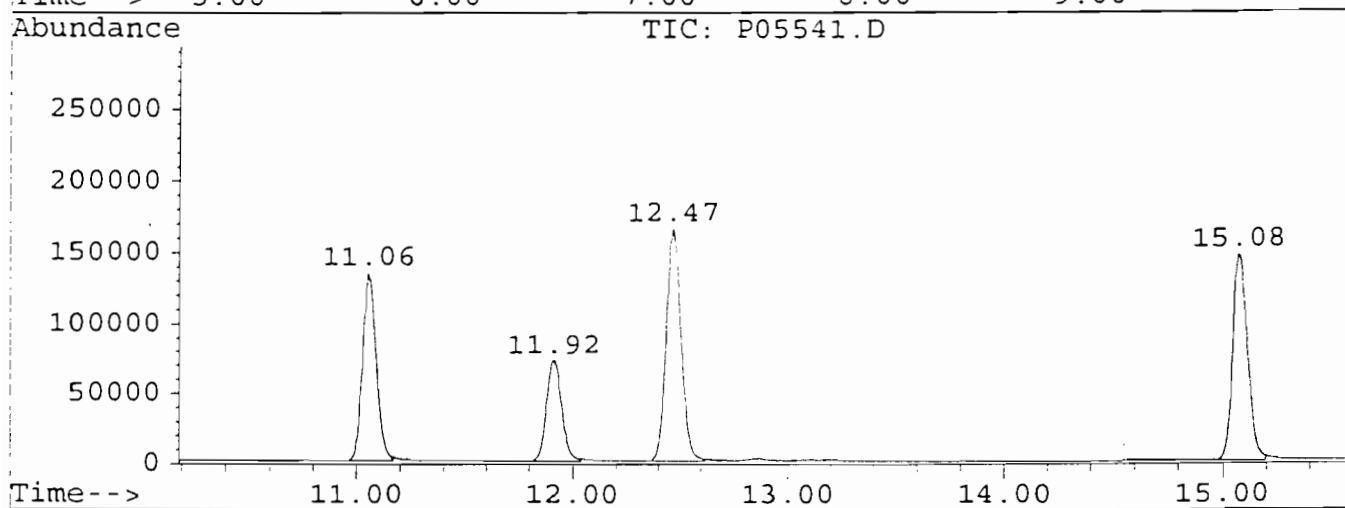
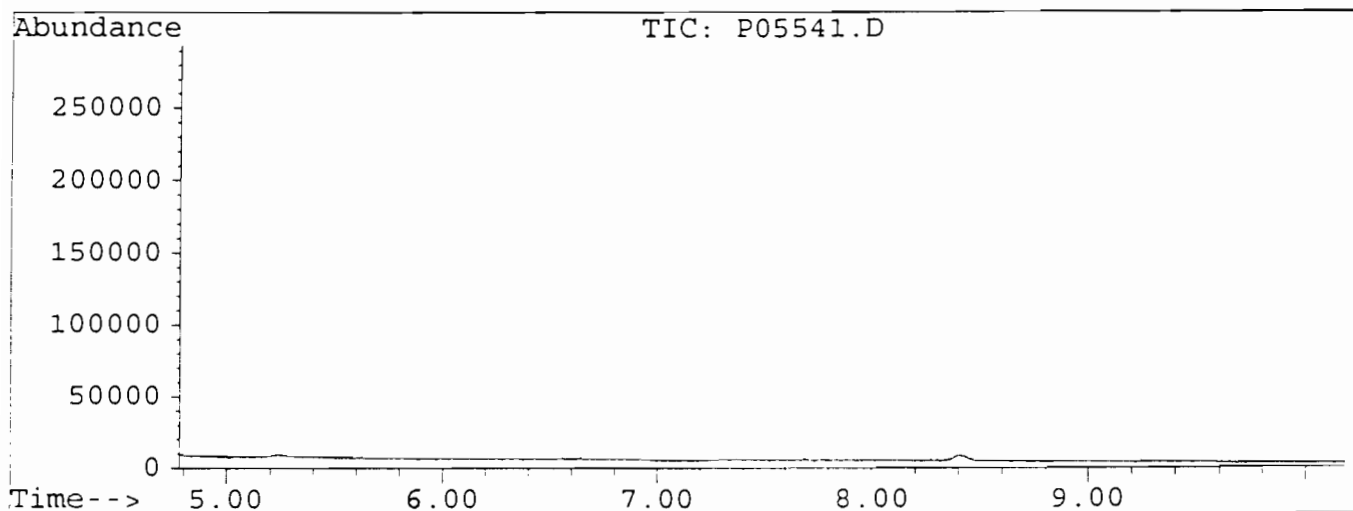
Last Update : Thu Jan 16 09:32:21 1997

Response via : Single Level Calibration



V 0166

File : S:\MS\HP#3\JAN97\P05541.D
Operator : GLENN
Acquired : 30 Jan 97 14:23 using AcqMethod CLPW
Instrument : 5970 - In
Sample Name: 9702046
Misc Info : TRIP BLANK H5970-3 1/30/97 5.0ML
Vial Number: 5



Quantitation Report

Data File : S:\MS\HP#3\JAN97\P05541.D

Vial: 5

Acq On : 30 Jan 97 14:23

Operator: GLENN

Sample : 9702046

Inst : 5970 - In

Misc : TRIP BLANK H5970-3 1/30/97 5.0ML

Multiplr: 1.00

Quant Time: Feb 11 18:16 1997

Method : C:\HPCHEM\1\METHODS\CLPW.M

Title : VOA CLP WATER METHOD

Last Update : Thu Jan 30 12:38:50 1997

Response via : Continuing Cal File: C:\HPCHEM\1\DATA\P05537.D

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	11.07	128	78478	50.00	UG/L	-0.01
21) 1,4-Difluorobenzene	12.47	114	285800	50.00	UG/L	-0.01
33) Chlorobenzene-d5	17.76	117	246038	50.00	UG/L	0.00
System Monitoring Compounds						%Recovery
18) 1,2-Dichloroethane-d4	11.91	65	130017	51.78	UG/L	103.56%
34) Toluene-d8	15.08	98	234307	47.08	UG/L	94.16%
43) Bromofluorobenzene	19.91	95	246332	50.80	UG/L	101.61%
Target Compounds						Qvalue
9) Methylene Chloride	8.39	84	3471	1.22	UG/L	# 82

(#) = qualifier out of range (m) = manual integration

P05541.D CLPW.M

Wed Feb 12 16:08:12 1997

JON

V-0168

Page 1

Library Search Compound Report

Data File : S:\MS\HP#3\JAN97\P05541.D

Acq On : 30 Jan 97 14:23

Sample : 9702046

Misc : TRIP BLANK H5970-3 1/30/97 5.0ML

Vial: 5

Operator: GLENN

Inst : 5970 - In

Multiplr: 1.00

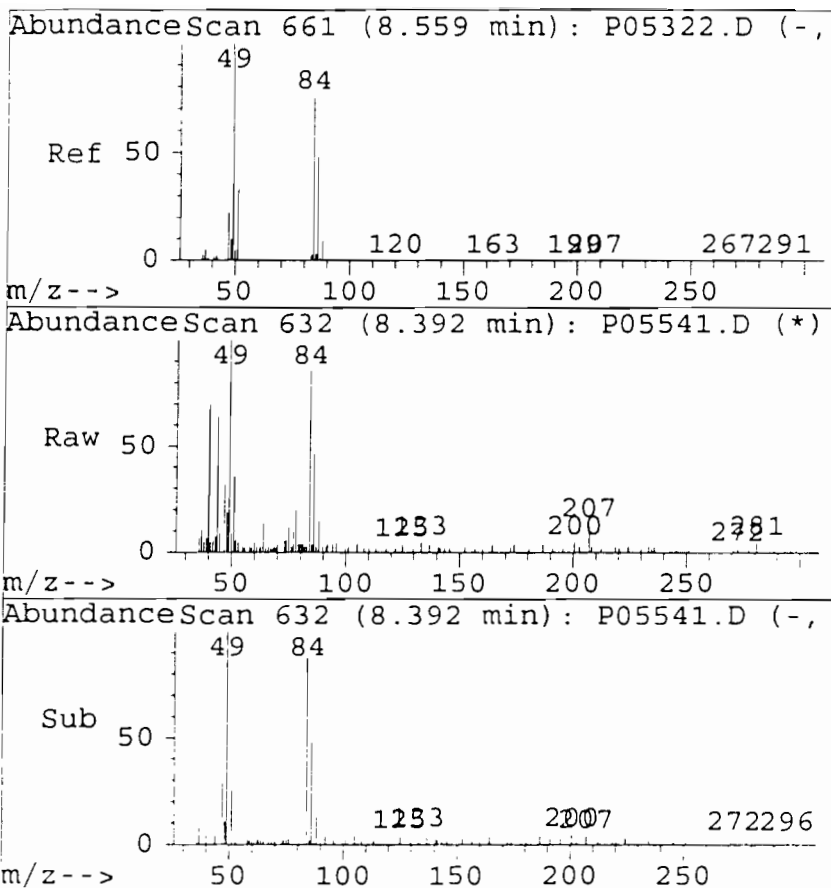
Method : S:\MS\HP#3\JAN97\CLPW.M

Title : VOA CLP WATER METHOD

Library : NBS75K.L

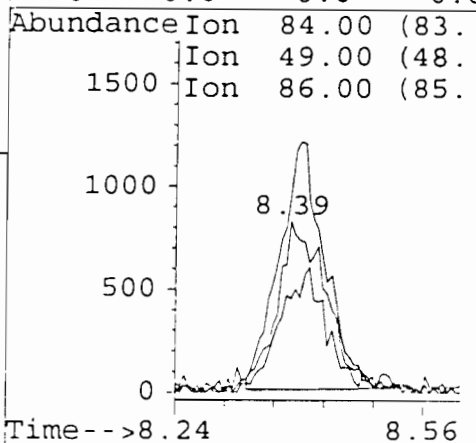
No Library Search Compounds Detected

V C169



Methylene Chloride
 Concen: 1.22 UG/L
 RT: 8.39 min Scan# 632
 Delta R.T. -0.05 min
 Lab File: P05541.D
 Acq: 30 Jan 97 2:23 pm

Tgt Ion:	84	Resp:	3471
Ion Ratio	Lower	Upper	
84	100		
49	112.2	113.6	153.6#
86	53.1	48.1	88.1
0	0.0	0.0	0.0



Sample Name: 9702046
 Misc. Info: TRIP BLANK H5970-3 1/30/97 5.0ML
 P05541.D CLPW.M Wed Feb 12 16:08:30 1997

JON

V 0170

Page 3

H2M LABS, INC.

III. STANDARD DATA PACKAGE FOR VOLATILE ORGANICS

- A. INITIAL CALIBRATION FORM
- B. STANDARD GC/MS CHROMATOGRAMS
- C. DATA SYSTEM REPORT
- D. CONTINUING CALIBRATION FORM
- E. STANDARD GC/MS CHROMATOGRAMS
- F. DATA SYSTEM REPORT

6A
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: H2M LABS INC. Contract: _____
 Lab Code: _____ Case No.: RA096 SAS No.: _____ SDG No.: NDEC012
 Instrument ID: 5970 Calibration Date(s): 12/31/96 12/31/96
 Heated Purge (Y/N): N Calibration Times: 11:19 16:42
 GC Column: RTX502.2 ID: 0.53 (mm)

LAB FILE ID: RRF10 = P05330.D RRF20 = P05321.D
 RRF50 = P05322.D RRF100 = P05323.D RRF200 = P05324.D

COMPOUND	RRF10	RRF20	RRF50	RRF100	RRF200	RRF	% RSD
Chloromethane	1.166	1.404	1.270	1.271	1.247	1.272	6.7
Bromomethane *	2.191	2.126	2.023	2.075	2.063	2.096	3.1 *
Vinyl Chloride *	1.436	1.549	1.376	1.314	1.278	1.391	7.7 *
Chloroethane	0.983	1.029	0.958	0.964	0.947	0.976	3.3
Methylene Chloride	1.752	1.660	1.613	1.618	1.564	1.641	4.3
Acetone	0.444	0.384	0.302	0.290	0.289	0.342	20.2
Carbon Disulfide	4.917	4.980	4.938	5.055	4.994	4.977	1.1
1,1-Dichloroethene *	1.784	1.776	1.687	1.755	1.691	1.739	2.7 *
1,1-Dichloroethane *	3.319	3.319	3.266	3.324	3.314	3.308	0.7 *
1,2-Dichloroethene (total)	2.009	1.854	1.794	1.823	1.814	1.859	4.7
Chloroform *	4.216	3.992	3.985	4.089	3.990	4.054	2.5 *
1,2-Dichloroethane *	1.972	1.983	2.003	2.016	2.041	2.003	1.4 *
2-Butanone	0.473	0.364	0.352	0.327	0.317	0.367	17.0
1,1,1-Trichloroethane *	0.964	0.944	0.946	0.916	0.959	0.946	2.0 *
Carbon Tetrachloride *	0.923	0.912	0.911	0.899	0.915	0.912	1.0 *
Bromodichloromethane *	1.067	1.068	1.126	1.113	1.128	1.100	2.8 *
1,2-Dichloropropane	0.436	0.446	0.449	0.440	0.447	0.443	1.2
cis-1,3-Dichloropropene *	0.599	0.614	0.652	0.622	0.660	0.629	4.1 *
Trichloroethene *	0.640	0.645	0.579	0.572	0.596	0.606	5.6 *
Benzene *	0.984	0.953	0.965	0.938	0.977	0.963	1.9 *
Dibromochloromethane *	0.732	0.749	0.807	0.794	0.802	0.777	4.4 *
trans-1,3-Dichloropropene *	0.457	0.487	0.520	0.458	0.540	0.492	7.5 *
1,1,2-Trichloroethane *	0.353	0.344	0.362	0.346	0.358	0.353	2.2 *
Bromoform *	0.464	0.456	0.531	0.520	0.545	0.503	8.1 *
4-Methyl-2-Pentanone	0.374	0.227	0.231	0.211	0.231	0.255	26.4
2-Hexanone	0.290	0.201	0.192	0.167	0.210	0.212	22.0
Tetrachloroethene *	0.744	0.725	0.716	0.715	0.724	0.725	1.6 *
1,1,2,2-Tetrachloroethane *	0.671	0.417	0.712	0.668	0.696	0.633	19.2 *
Toluene *	1.380	1.348	1.332	1.342	1.391	1.359	1.9 *
Chlorobenzene *	1.219	1.164	1.162	1.163	1.169	1.175	2.1 *
Ethylbenzene *	0.477	0.478	0.464	0.463	0.489	0.474	2.2 *
Styrene *	0.956	0.929	0.947	0.966	0.991	0.958	2.4 *
Xylene (total) *	0.575	0.582	0.574	0.579	0.590	0.580	1.1 *
1,2-Dichloroethane-d4	1.386	1.301	1.341	1.348	1.371	1.349	2.4
Toluene-d8	1.092	1.085	1.095	1.096	1.176	1.109	3.4
Bromofluorobenzene *	0.905	0.859	0.888	0.880	0.930	0.892	3.0 *

* Compounds with required minimum RRF and maximum %RSD values.
 All other compounds must meet a minimum RRF of 0.010.

FORM VI VOA

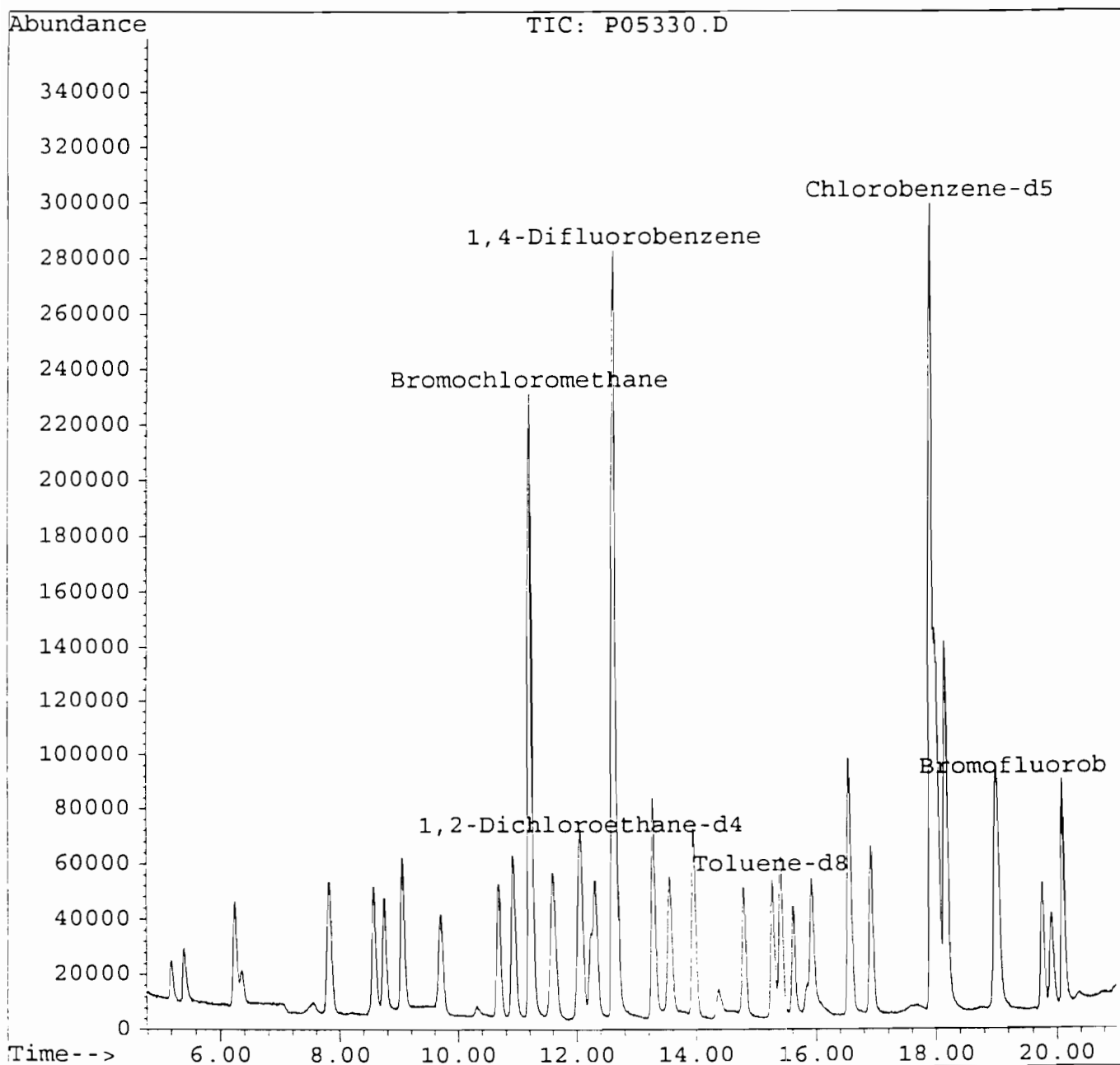
V 0172
3/90

Quantitation Report

Data File : S:\MS\HP#3\DEC96\P05330.D
Acq On : 31 Dec 96 4:42 pm
Sample : VSTD010
Misc : H5970-3 12/31/96
Quant Time: Jan 2 8:43 1997

Vial: 14
Operator: GLENN
Inst : 5970 - In
Multiplr: 1.00

Method : S:\MS\HP#3\JAN97\CLPW.M
Title : VOA CLP WATER METHOD
Last Update : Thu Jan 16 09:32:21 1997
Response via : Single Level Calibration



Quantitation Report

Data File : S:\MS\HP#3\DEC96\P05330.D
 Acq On : 31 Dec 96 16:42
 Sample : VSTD010
 Misc : H5970-3 12/31/96
 Quant Time: Jan 2 8:43 1997

Vial: 14
 Operator: GLENN
 Inst : 5970 - In
 Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\CLPW.M
 Title : VOA CLP WATER METHOD
 Last Update : Tue Dec 31 15:20:47 1996
 Response via : Continuing Cal File: C:\HPCHEM\1\DATA\P05322.D

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	11.24	128	136095	50.00	UG/L	0.00
21) 1,4-Difluorobenzene	12.65	114	510750	50.00	UG/L	0.00
33) Chlorobenzene-d5	17.96	117	378876	50.00	UG/L	0.02

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	%Recovery
18) 1,2-Dichloroethane-d4	12.09	65	37724	10.34	UG/L	20.67%
34) Toluene-d8	15.27	98	82748	9.98	UG/L	19.95%
43) Bromofluorobenzene	20.12	95	68568	10.20	UG/L	20.39%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Chloromethane	5.21	50	31746	9.18	UG/L	91
3) Vinyl Chloride	5.42	62	39080	10.43	UG/L	100
4) Bromomethane	6.25	94	59631	10.83	UG/L	100
5) Chloroethane	6.37	64	26766	10.26	UG/L	99
6) 1,1-Dichloroethene	7.83	96	48555	10.57	UG/L	# 85
7) Carbon Disulfide	8.75	76	133824	9.96	UG/L	96
8) Acetone	7.56	43	12079	14.69	UG/L	87
9) Methylene Chloride	8.58	84	47691	10.87	UG/L	97
13) trans-1,2-Dichloroethene	9.06	96	48892	10.33	UG/L	97
14) cis-,1,2-Dichloroethene	10.68	96	51540	10.69	UG/L	91
15) 1,2-Dichloroethene (total)	10.68	96	109352m	22.39	UG/L	88
16) 1,1-Dichloroethane	9.72	63	90327	10.16	UG/L	93
17) Chloroform	10.94	83	114751	10.58	UG/L	93
19) 1,2-Dichloroethane	12.25	62	53679	9.84	UG/L	89
20) 2-Butanone	10.31	43	12873	13.42	UG/L	80
22) 1,1,1-Trichloroethane	11.61	97	98449	10.19	UG/L	95
23) Carbon Tetrachloride	12.07	117	94321	10.14	UG/L	92
24) Trichloroethene	13.29	130	65323	11.04	UG/L	98
25) Benzene	12.33	78	100535	10.20	UG/L	97
26) 1,2-Dichloropropane	13.57	63	44540	9.70	UG/L	97
27) Bromodichloromethane	13.97	83	109029	9.48	UG/L	97
28) cis-1,3-Dichloropropene	14.81	75	61146	9.18	UG/L	97
29) trans-1,3-Dichloropropene	15.63	75	46708	8.79	UG/L	97
30) 1,1,2-Trichloroethane	15.94	97	36039	9.73	UG/L	95
31) Dibromochloromethane	16.93	129	74780	9.07	UG/L	97
32) Bromoform	19.77	173	47437	8.75	UG/L	98
35) 4-Methyl-2-Pentanone	14.38	43	28326	16.17	UG/L	96
36) Toluene	15.42	91	104541	10.36	UG/L	100
37) Tetrachloroethene	16.57	164	56376	10.39	UG/L	98
38) 2-Hexanone	15.84	43	21998	15.09	UG/L	97
39) Chlorobenzene	18.03	112	92355	10.49	UG/L	91
40) Ethylbenzene	18.05	106	36131	10.27	UG/L	# 85
41) Xylene (total)	19.01	106	43571	10.02	UG/L	95
42) Styrene	19.05	104	72469	10.09	UG/L	91

(#) = qualifier out of range (m) = manual integration

P05330.D CLPW.M

Fri Feb 14 17:08:05 1997

JON

Page 1

V 0174

Quantitation Report

Data File : S:\MS\HP#3\DEC96\P05330.D
 Acq On : 31 Dec 96 16:42
 Sample : VSTD010
 Misc : H5970-3 12/31/96
 Quant Time: Jan 2 8:43 1997

Vial: 14
 Operator: GLENN
 Inst : 5970 - In
 Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\CLPW.M
 Title : VOA CLP WATER METHOD
 Last Update : Tue Dec 31 15:20:47 1996
 Response via : Continuing Cal File: C:\HPCHEM\1\DATA\P05322.D

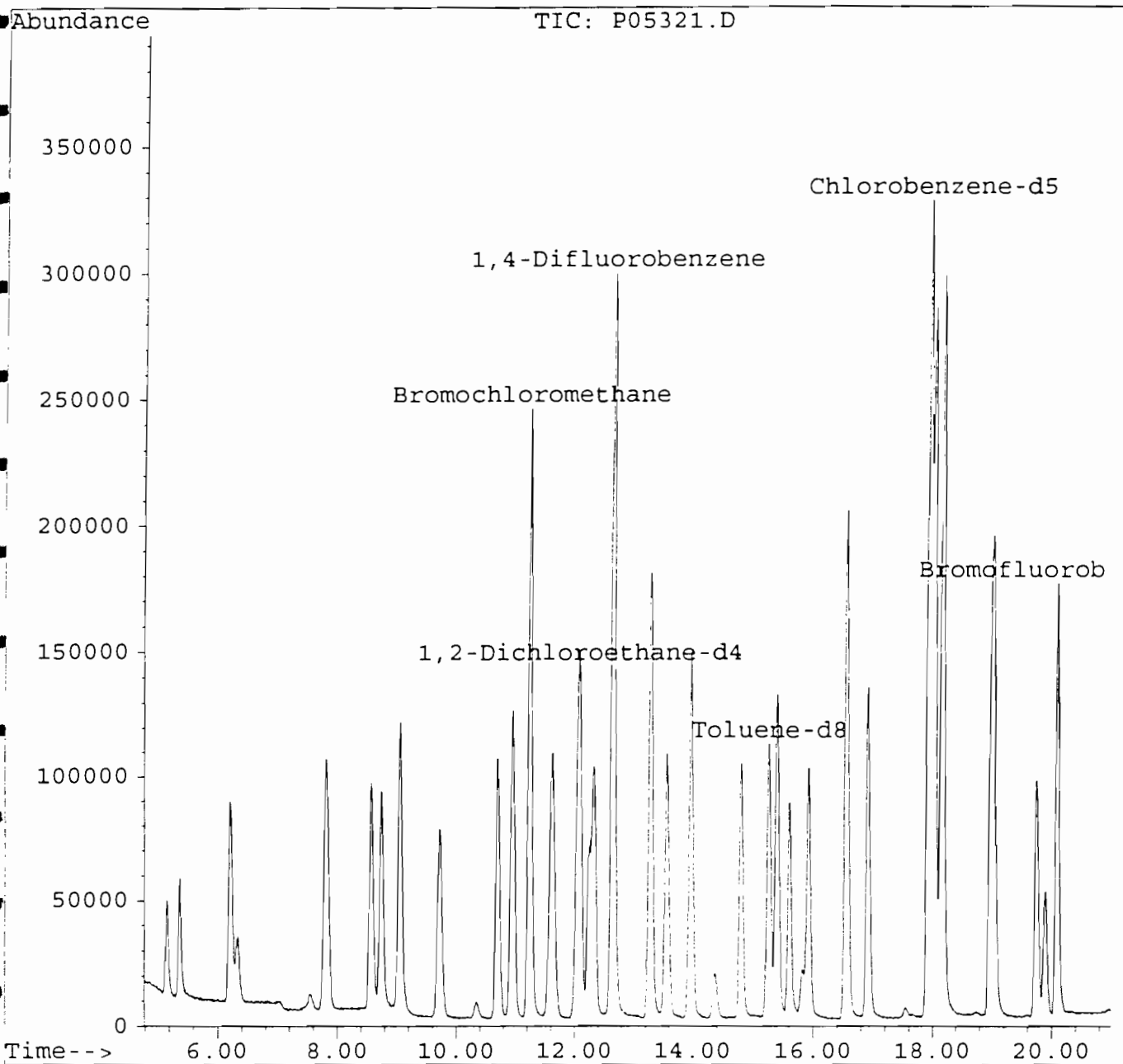
Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
44) m/p-Xylene	18.18	106	90872	20.53	UG/L	97
45) 1,1,2,2-Tetrachloroethane	19.92	83	50813	9.42	UG/L	93

Quantitation Report

Data File : S:\MS\HP#3\DEC96\P05321.D
Acq On : 31 Dec 96 11:19 am
Sample : VSTD020
Misc : H5970-3 12/31/96
Quant Time: Dec 31 15:20 1996

Vial: 4
Operator: GLENN
Inst : 5970 - In
Multiplr: 1.00

Method : S:\MS\HP#3\JAN97\CLPW.M
Title : VOA CLP WATER METHOD
Last Update : Thu Jan 16 09:32:21 1997
Response via : Single Level Calibration



V 0176

Quantitation Report

Data File : S:\MS\HP#3\DEC96\P05321.D
 Acq On : 31 Dec 96 11:19
 Sample : VSTD020
 Misc : H5970-3 12/31/96
 Quant Time: Dec 31 15:20 1996

Vial: 4
 Operator: GLENN
 Inst : 5970 - In
 Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\CLPW.M
 Title : VOA CLP WATER METHOD
 Last Update : Tue Jul 02 17:06:45 1996
 Response via : Continuing Cal File: C:\HPCHEM\1\DATA\P03907.D

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	11.24	128	147473	50.00	UG/L	0.21
21) 1,4-Difluorobenzene	12.65	114	543161	50.00	UG/L	0.19
33) Chlorobenzene-d5	17.94	117	418359	50.00	UG/L	0.22

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	%Recovery
18) 1,2-Dichloroethane-d4	12.09	65	76766	17.84	UG/L	35.67%
34) Toluene-d8	15.27	98	181551	23.03	UG/L	46.05%
43) Bromofluorobenzene	20.10	95	143746	19.02	UG/L	38.05%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Chloromethane	5.15	50	82833	46.61	UG/L	95
3) Vinyl Chloride	5.37	62	91359	34.08	UG/L	99
4) Bromomethane	6.20	94	125403	25.20	UG/L	97
5) Chloroethane	6.33	64	60673	34.08	UG/L	98
6) 1,1-Dichloroethene	7.82	96	104769	24.40	UG/L	88
7) Carbon Disulfide	8.75	76	293769	30.07	UG/L	98
8) Acetone	7.56	43	22654m	17.94	UG/L	80
9) Methylene Chloride	8.58	84	97906	23.54	UG/L	98
13) trans-1,2-Dichloroethene	9.06	96	104245	22.73	UG/L	96
14) cis-,1,2-Dichloroethene	10.71	96	108393	22.39	UG/L	91
15) 1,2-Dichloroethene (total)	9.06	96	218780m	45.42	UG/L	93
16) 1,1-Dichloroethane	9.72	63	195805	24.83	UG/L	98
17) Chloroform	10.95	83	235463	21.06	UG/L	95
19) 1,2-Dichloroethane	12.24	62	116993	19.11	UG/L	96
20) 2-Butanone	10.33	43	21482	16.03	UG/L	80
22) 1,1,1-Trichloroethane	11.63	97	205188m	19.13	UG/L	97
23) Carbon Tetrachloride	12.06	117	198187	17.66	UG/L	93
24) Trichloroethene	13.28	130	140161	21.26	UG/L	98
25) Benzene	12.34	78	207031	23.87	UG/L	98
26) 1,2-Dichloropropane	13.56	63	96832	26.08	UG/L	97
27) Bromodichloromethane	13.97	83	232063	19.28	UG/L	98
28) cis-1,3-Dichloropropene	14.80	75	133414	21.72	UG/L	97
29) trans-1,3-Dichloropropene	15.61	75	105703	19.54	UG/L	95
30) 1,1,2-Trichloroethane	15.93	97	74748	19.17	UG/L	92
31) Dibromochloromethane	16.92	129	162677	15.76	UG/L	100
32) Bromoform	19.74	173	98974	14.27	UG/L	98
35) 4-Methyl-2-Pentanone	14.37	43	37911	17.54	UG/L	99
36) Toluene	15.41	91	225627	22.51	UG/L	98
37) Tetrachloroethene	16.56	164	121269	21.00	UG/L	97
38) 2-Hexanone	15.83	43	33557	15.90	UG/L	93
39) Chlorobenzene	18.00	112	194787	21.71	UG/L	88
40) Ethylbenzene	18.04	106	79950	22.39	UG/L	# 84
41) Xylene (total)	18.99	106	97417	21.97	UG/L	94
42) Styrene	19.03	104	155439	20.15	UG/L	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : S:\MS\HP#3\DEC96\P05321.D
Acq On : 31 Dec 96 11:19
Sample : VSTD020
Misc : H5970-3 12/31/96
Quant Time: Dec 31 15:20 1996

Vial: 4
Operator: GLENN
Inst : 5970 - In
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\CLPW.M
Title : VOA CLP WATER METHOD
Last Update : Tue Jul 02 17:06:45 1996
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\P03907.D

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
44) m/p-Xylene	18.16	106	194421	43.43	UG/L	98
45) 1,1,2,2-Tetrachloroethane	19.90	83	69849	14.04	UG/L	91

(#) = qualifier out of range (m) = manual integration

P05321.D CLPW.M Fri Feb 14 17:03:39 1997 JON

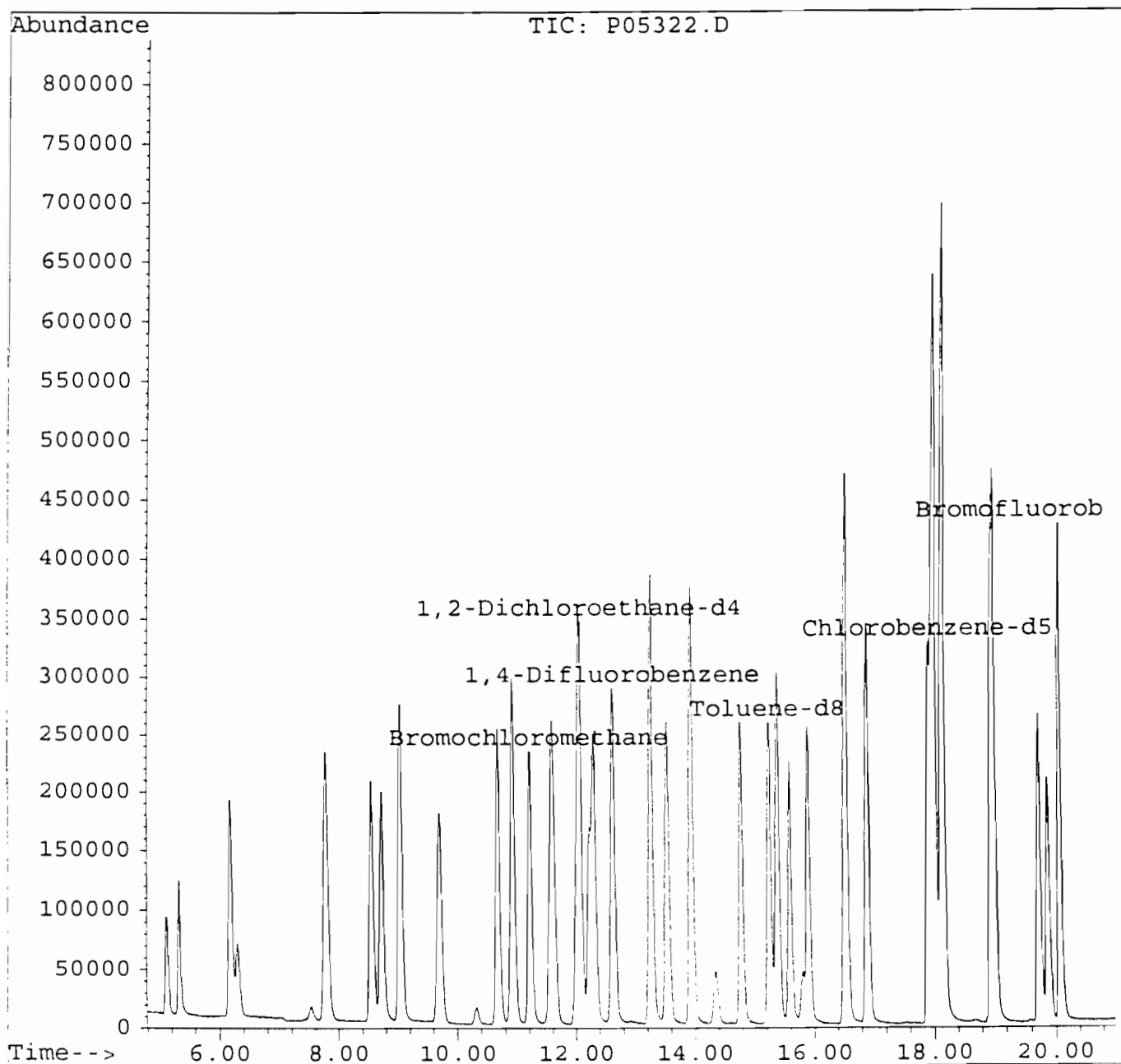
V 0178
Page 2

Quantitation Report

Data File : S:\MS\HP#3\DEC96\P05322.D
 Acq On : 31 Dec 96 11:50 am
 Sample : VSTD050
 Misc : H5970-3 12/31/96
 Quant Time: Dec 31 12:38 1996

Vial: 5
 Operator: GLENN
 Inst : 5970 - In
 Multiplr: 1.00

Method : S:\MS\HP#3\JAN97\CLPW.M
 Title : VOA CLP WATER METHOD
 Last Update : Thu Jan 16 09:32:21 1997
 Response via : Single Level Calibration



Quantitation Report

Data File : S:\MS\HP#3\DEC96\P05322.D
 Acq On : 31 Dec 96 11:50
 Sample : VSTD050
 Misc : H5970-3 12/31/96
 Quant Time: Dec 31 12:38 1996

Vial: 5
 Operator: GLENN
 Inst : 5970 - In
 Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\CLPW.M
 Title : VOA CLP WATER METHOD
 Last Update : Tue Jul 02 17:06:45 1996
 Response via : Continuing Cal File: C:\HPCHEM\1\DATA\P03907.D

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	11.23	128	142680	50.00	UG/L	0.19
21) 1,4-Difluorobenzene	12.63	114	517138	50.00	UG/L	0.17
33) Chlorobenzene-d5	17.92	117	393234	50.00	UG/L	0.20

System Monitoring Compounds						%Recovery
18) 1,2-Dichloroethane-d4	12.07	65	191320	45.94	UG/L	91.89%
34) Toluene-d8	15.25	98	430425	58.08	UG/L	116.16%
43) Bromofluorobenzene	20.08	95	349018	49.14	UG/L	98.28%

Target Compounds						Qvalue
2) Chloromethane	5.12	50	181266	105.42	UG/L	91
3) Vinyl Chloride	5.33	62	196351	75.70	UG/L	99
4) Bromomethane	6.18	94	288624	59.96	UG/L	98
5) Chloroethane	6.30	64	136722	79.38	UG/L	96
6) 1,1-Dichloroethene	7.80	96	240717	57.95	UG/L #	87
7) Carbon Disulfide	8.73	76	704572	74.55	UG/L	96
8) Acetone	7.53	43	43088	35.26	UG/L	88
9) Methylene Chloride	8.56	84	230082	57.17	UG/L	98
13) trans-1,2-Dichloroethene	9.04	96	248076	55.92	UG/L	95
14) cis-,1,2-Dichloroethene	10.68	96	252681	53.95	UG/L	91
15) 1,2-Dichloroethene (total)	10.68	96	511958m	109.85	UG/L	89
16) 1,1-Dichloroethane	9.71	63	465939	61.06	UG/L	96
17) Chloroform	10.93	83	568563	52.55	UG/L	93
19) 1,2-Dichloroethane	12.23	62	285832	48.25	UG/L	96
20) 2-Butanone	10.32	43	50270	38.78	UG/L	97
22) 1,1,1-Trichloroethane	11.60	97	489041	47.88	UG/L	95
23) Carbon Tetrachloride	12.05	117	470945	44.08	UG/L	94
24) Trichloroethene	13.27	130	299455	47.71	UG/L	95
25) Benzene	12.31	78	499051	60.44	UG/L	98
26) 1,2-Dichloropropane	13.54	63	232351	65.73	UG/L	95
27) Bromodichloromethane	13.94	83	582209	50.81	UG/L	96
28) cis-1,3-Dichloropropene	14.77	75	337228	57.67	UG/L	97
29) trans-1,3-Dichloropropene	15.60	75	269060	52.24	UG/L	96
30) 1,1,2-Trichloroethane	15.90	97	187425	50.48	UG/L	95
31) Dibromochloromethane	16.90	129	417251	42.45	UG/L	95
32) Bromoform	19.73	173	274570	41.58	UG/L	98
35) 4-Methyl-2-Pentanone	14.35	43	90892	44.75	UG/L	97
36) Toluene	15.39	91	523672	55.58	UG/L	98
37) Tetrachloroethene	16.54	164	281466	51.84	UG/L	96
38) 2-Hexanone	15.80	43	75665	38.15	UG/L	99
39) Chlorobenzene	17.99	112	456985	54.19	UG/L	88
40) Ethylbenzene	18.02	106	182544	54.40	UG/L #	79
41) Xylene (total)	18.96	106	225651	54.14	UG/L	91
42) Styrene	19.01	104	372566	51.38	UG/L	93

(#) = qualifier out of range (m) = manual integration

P05322.D CLPW.M

Fri Feb 14 17:04:45 1997

JON

Page 1

V 0180

Quantitation Report

Data File : S:\MS\HP#3\DEC96\P05322.D
Acq On : 31 Dec 96 11:50
Sample : VSTD050
Misc : H5970-3 12/31/96
Quant Time: Dec 31 12:38 1996

Vial: 5
Operator: GLENN
Inst : 5970 - In
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\CLPW.M
Title : VOA CLP WATER METHOD
Last Update : Tue Jul 02 17:06:45 1996
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\P03907.D

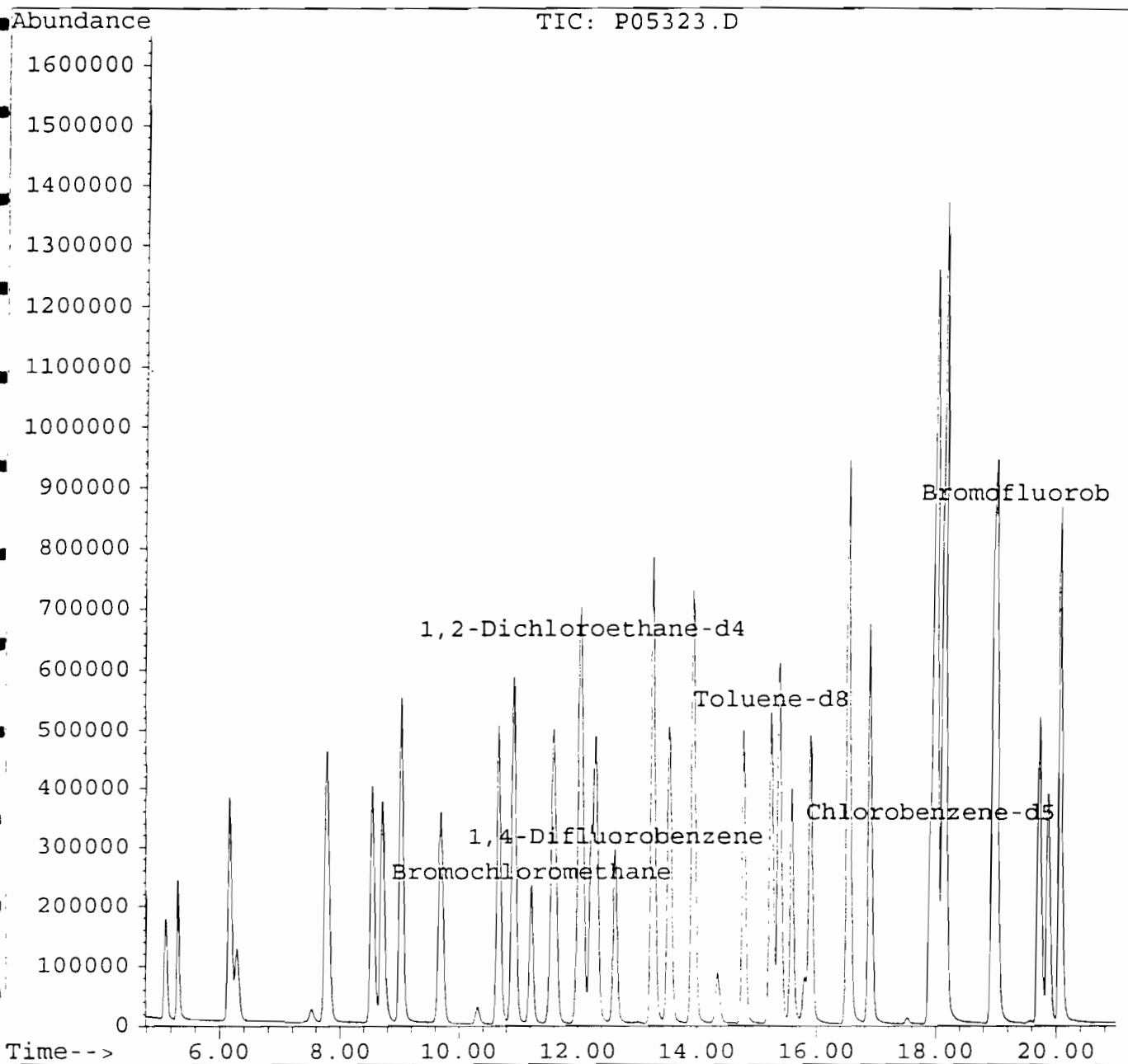
Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
44) m/p-Xylene	18.15	106	459502	109.19	UG/L #	89
45) 1,1,2,2-Tetrachloroethane	19.88	83	279790	59.82	UG/L	92

Quantitation Report

Data File : S:\MS\HP#3\DEC96\P05323.D
Acq On : 31 Dec 96 12:21 pm
Sample : VSTD100
Misc : H5970-3 12/31/96
Quant Time: Dec 31 12:49 1996

Vial: 6
Operator: GLENN
Inst : 5970 - In
Multiplr: 1.00

Method : S:\MS\HP#3\JAN97\CLPW.M
Title : VOA CLP WATER METHOD
Last Update : Thu Jan 16 09:32:21 1997
Response via : Single Level Calibration



Quantitation Report

Data File : S:\MS\HP#3\DEC96\P05323.D
 Acq On : 31 Dec 96 12:21
 Sample : VSTD100
 Misc : H5970-3 12/31/96
 Quant Time: Dec 31 12:49 1996

Vial: 6
 Operator: GLENN
 Inst : 5970 - In
 Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\CLPW.M
 Title : VOA CLP WATER METHOD
 Last Update : Tue Jul 02 17:06:45 1996
 Response via : Continuing Cal File: C:\HPCHEM\1\DATA\P03907.D

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	11.22	128	139592	50.00	UG/L	0.18
21) 1,4-Difluorobenzene	12.63	114	525241	50.00	UG/L	0.17
33) Chlorobenzene-d5	17.91	117	396259	50.00	UG/L	0.18

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	%Recovery
18) 1,2-Dichloroethane-d4	12.07	65	376350	92.38	UG/L	184.76%
34) Toluene-d8	15.24	98	868457	116.30	UG/L	232.59%
43) Bromofluorobenzene	20.08	95	697471	97.45	UG/L	194.89%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Chloromethane	5.11	50	354937	210.99	UG/L	93
3) Vinyl Chloride	5.31	62	366800	144.54	UG/L	99
4) Bromomethane	6.17	94	579196	122.99	UG/L	97
5) Chloroethane	6.29	64	269136	159.72	UG/L	96
6) 1,1-Dichloroethene	7.78	96	489992	120.56	UG/L	92
7) Carbon Disulfide	8.73	76	1411261	152.63	UG/L	98
8) Acetone	7.53	43	81046m	67.79	UG/L	87
9) Methylene Chloride	8.54	84	451797	114.75	UG/L	98
13) trans-1,2-Dichloroethene	9.03	96	497129	114.53	UG/L	97
14) cis-,1,2-Dichloroethene	10.67	96	505863	110.39	UG/L	91
15) 1,2-Dichloroethene (total)	9.03	96	1017717m	223.19	UG/L	93
16) 1,1-Dichloroethane	9.70	63	928118	124.32	UG/L	94
17) Chloroform	10.92	83	1141639	107.85	UG/L	98
19) 1,2-Dichloroethane	12.22	62	562937	97.13	UG/L	94
20) 2-Butanone	10.32	43	91197	71.91	UG/L	97
22) 1,1,1-Trichloroethane	11.59	97	961959	92.73	UG/L	95
23) Carbon Tetrachloride	12.04	117	944277	87.01	UG/L	96
24) Trichloroethene	13.26	130	601100	94.29	UG/L	95
25) Benzene	12.30	78	985080	117.45	UG/L	99
26) 1,2-Dichloropropane	13.53	63	461670	128.58	UG/L	96
27) Bromodichloromethane	13.93	83	1169202	100.46	UG/L	99
28) cis-1,3-Dichloropropene	14.78	75	653441	110.02	UG/L	96
29) trans-1,3-Dichloropropene	15.59	75	481168	91.98	UG/L	94
30) 1,1,2-Trichloroethane	15.91	97	363376	96.36	UG/L	94
31) Dibromochloromethane	16.90	129	833517	83.50	UG/L	97
32) Bromoform	19.73	173	546155	81.44	UG/L	99
35) 4-Methyl-2-Pentanone	14.35	43	166819	81.51	UG/L	97
36) Toluene	15.39	91	1063482	112.01	UG/L	95
37) Tetrachloroethene	16.54	164	566605	103.57	UG/L	97
38) 2-Hexanone	15.80	43	132432	66.27	UG/L	98
39) Chlorobenzene	17.99	112	921650	108.47	UG/L	88
40) Ethylbenzene	18.02	106	367190	108.59	UG/L	97
41) Xylene (total)	18.97	106	458927	109.27	UG/L	# 82
42) Styrene	19.02	104	765322	104.75	UG/L	96

(#) = qualifier out of range (m) = manual integration
 P05323.D CLPW.M Fri Feb 14 17:05:55 1997 JON

V 0153
 Page 1

Quantitation Report

Data File : S:\MS\HP#3\DEC96\P05323.D
 Acq On : 31 Dec 96 12:21
 Sample : VSTD100
 Misc : H5970-3 12/31/96
 Quant Time: Dec 31 12:49 1996

Vial: 6
 Operator: GLENN
 Inst : 5970 - In
 Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\CLPW.M
 Title : VOA CLP WATER METHOD
 Last Update : Tue Jul 02 17:06:45 1996
 Response via : Continuing Cal File: C:\HPCHEM\1\DATA\P03907.D

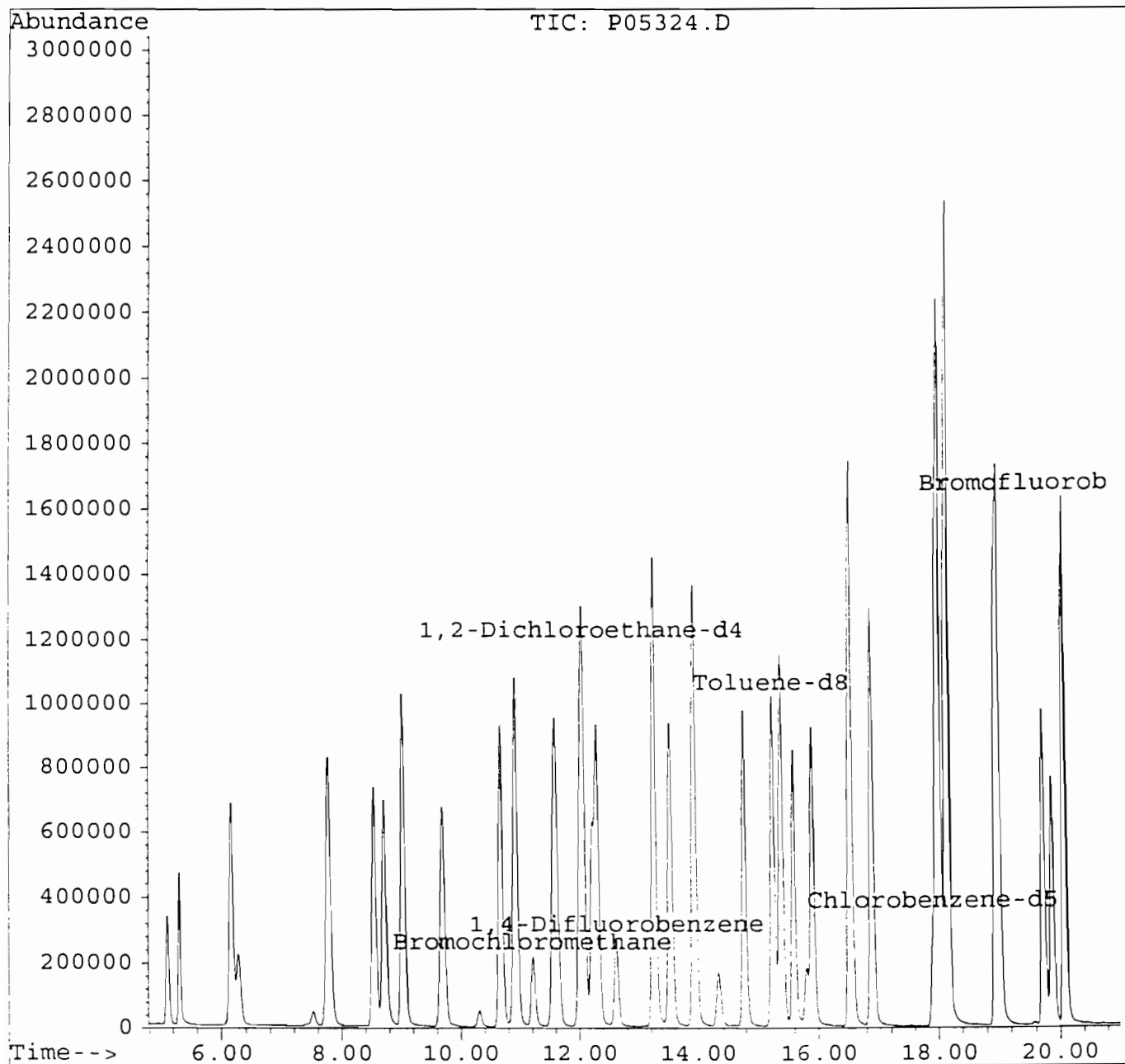
Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
44) m/p-Xylene	18.15	106	918759	216.66	UG/L	93
45) 1,1,2,2-Tetrachloroethane	19.88	83	529585	112.37	UG/L	96

Quantitation Report

Data File : S:\MS\HP#3\DEC96\P05324.D
Acq On : 31 Dec 96 12:52 pm
Sample : VSTD200
Misc : H5970-3 12/31/96
Quant Time: Dec 31 15:14 1996

Vial: 7
Operator: GLENN
Inst : 5970 - In
Multiplr: 1.00

Method : S:\MS\HP#3\JAN97\CLPW.M
Title : VOA CLP WATER METHOD
Last Update : Thu Jan 16 09:32:21 1997
Response via : Single Level Calibration



V 0185

Quantitation Report

Data File : S:\MS\HP#3\DEC96\P05324.D
 Acq On : 31 Dec 96 12:52
 Sample : VSTD200
 Misc : H5970-3 12/31/96
 Quant Time: Dec 31 15:14 1996

Vial: 7
 Operator: GLENN
 Inst : 5970 - In
 Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\CLPW.M
 Title : VOA CLP WATER METHOD
 Last Update : Tue Jul 02 17:06:45 1996
 Response via : Continuing Cal File: C:\HPCHEM\1\DATA\P03907.D

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	11.22	128	133470	50.00	UG/L	0.18
21) 1,4-Difluorobenzene	12.63	114	486324	50.00	UG/L	0.18
33) Chlorobenzene-d5	17.91	117	362200	50.00	UG/L	0.19

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	%Recovery
18) 1,2-Dichloroethane-d4	12.07	65	731699	187.84	UG/L	375.68%
34) Toluene-d8	15.24	98	1703015	249.50	UG/L	498.99%
43) Bromofluorobenzene	20.08	95	1347935	206.04	UG/L	412.07%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Chloromethane	5.10	50	665566	413.80	UG/L	93
3) Vinyl Chloride	5.30	62	682318	281.20	UG/L	99
4) Bromomethane	6.16	94	1101583	244.64	UG/L	97
5) Chloroethane	6.28	64	505415	313.69	UG/L	98
6) 1,1-Dichloroethene	7.78	96	902727	232.30	UG/L	# 88
7) Carbon Disulfide	8.71	76	2666089	301.57	UG/L	95
8) Acetone	7.52	43	154500	135.15	UG/L	94
9) Methylene Chloride	8.54	84	835003	221.81	UG/L	97
13) trans-1,2-Dichloroethene	9.02	96	944258	227.52	UG/L	96
14) cis-,1,2-Dichloroethene	10.67	96	968722	221.09	UG/L	92
15) 1,2-Dichloroethene (total)	10.67	96	1937204m	444.33	UG/L	94
16) 1,1-Dichloroethane	9.69	63	1769464	247.90	UG/L	95
17) Chloroform	10.92	83	2130329	210.48	UG/L	92
19) 1,2-Dichloroethane	12.22	62	1089685	196.64	UG/L	94
20) 2-Butanone	10.32	43	169425	139.71	UG/L	98
22) 1,1,1-Trichloroethane	11.59	97	1865356	194.21	UG/L	96
23) Carbon Tetrachloride	12.03	117	1779368	177.09	UG/L	94
24) Trichloroethene	13.26	130	1158746	196.31	UG/L	99
25) Benzene	12.31	78	1900391	244.72	UG/L	99
26) 1,2-Dichloropropane	13.53	63	869280	261.48	UG/L	96
27) Bromodichloromethane	13.94	83	2194524	203.65	UG/L	96
28) cis-1,3-Dichloropropene	14.78	75	1284152	233.51	UG/L	97
29) trans-1,3-Dichloropropene	15.59	75	1050797	216.94	UG/L	93
30) 1,1,2-Trichloroethane	15.90	97	695958	199.32	UG/L	95
31) Dibromochloromethane	16.89	129	1560553	168.84	UG/L	94
32) Bromoform	19.73	173	1060981	170.86	UG/L	99
35) 4-Methyl-2-Pentanone	14.35	43	335280	179.22	UG/L	97
36) Toluene	15.38	91	2015396	232.23	UG/L	100
37) Tetrachloroethene	16.54	164	1049069	209.79	UG/L	95
38) 2-Hexanone	15.81	43	304252	166.56	UG/L	99
39) Chlorobenzene	17.99	112	1694177	218.13	UG/L	88
40) Ethylbenzene	18.03	106	708076	229.09	UG/L	97
41) Xylene (total)	18.97	106	855121	222.75	UG/L	# 89
42) Styrene	19.02	104	1435221	214.91	UG/L	94

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : S:\MS\HP#3\DEC96\P05324.D
 Acq On : 31 Dec 96 12:52
 Sample : VSTD200
 Misc : H5970-3 12/31/96
 Quant Time: Dec 31 15:14 1996

Vial: 7
 Operator: GLENN
 Inst : 5970 - In
 Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\CLPW.M
 Title : VOA CLP WATER METHOD
 Last Update : Tue Jul 02 17:06:45 1996
 Response via : Continuing Cal File: C:\HPCHEM\1\DATA\P03907.D

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
44) m/p-Xylene	18.15	106	1718074	443.25	UG/L	96
45) 1,1,2,2-Tetrachloroethane	19.88	83	1008006	234.00	UG/L	96

6A
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: H2M LABS INC. Contract: _____
 Lab Code: _____ Case No.: RA096 SAS No.: _____ SDG No.: NDEC012
 Instrument ID: 5970 Calibration Date(s): 12/31/96 12/31/96
 Heated Purge (Y/N): Y Calibration Times: 13:23 15:27
 GC Column: RTX502.2 ID: 0.53 (mm)

LAB FILE ID: RRF10 = P05325.D RRF20 = P05326.D
 RRF50 = P05327.D RRF100 = P05328.D RRF200 = P05329.D

COMPOUND	RRF10	RRF20	RRF50	RRF100	RRF200	RRF	% RSD
Chloromethane	1.244	1.004	1.023	1.000	1.035	1.061	9.7
Bromomethane *	2.151	1.704	1.765	1.762	1.780	1.832	9.9 *
Vinyl Chloride *	1.496	1.103	1.089	1.044	0.962	1.139	18.2 *
Chloroethane	0.976	0.790	0.820	0.818	0.815	0.844	8.9
Methylene Chloride	1.705	1.534	1.469	1.510	1.473	1.538	6.3
Acetone	0.441	0.479	0.455	0.440	0.392	0.441	7.3
Carbon Disulfide	4.996	4.095	4.253	4.250	4.007	4.320	9.1
1,1-Dichloroethene *	1.852	1.414	1.470	1.497	1.342	1.515	13.0 *
1,1-Dichloroethane *	3.215	2.829	2.893	2.967	2.674	2.916	6.8 *
1,2-Dichloroethene (total)	1.980	1.577	1.616	1.644	1.458	1.655	11.8
Chloroform *	3.915	3.499	3.612	3.734	3.412	3.634	5.5 *
1,2-Dichloroethane *	2.002	2.016	1.941	2.062	1.888	1.982	3.4 *
2-Butanone	0.483	0.565	0.507	0.534	0.477	0.513	7.2
1,1,1-Trichloroethane *	0.914	0.900	0.912	0.934	0.859	0.904	3.1 *
Carbon Tetrachloride *	0.843	0.854	0.867	0.903	0.791	0.852	4.8 *
Bromodichloromethane *	0.963	1.147	1.153	1.195	1.098	1.111	8.1 *
1,2-Dichloropropane	0.402	0.450	0.448	0.457	0.438	0.439	5.0
cis-1,3-Dichloropropene *	0.527	0.657	0.657	0.694	0.637	0.634	10.0 *
Trichloroethene *	0.554	0.571	0.561	0.588	0.538	0.562	3.3 *
Benzene *	0.873	0.928	0.935	0.939	0.877	0.910	3.6 *
Dibromochloromethane *	0.677	0.914	0.881	0.936	0.890	0.860	12.1 *
trans-1,3-Dichloropropene *	0.429	0.578	0.559	0.597	0.559	0.544	12.2 *
1,1,2-Trichloroethane *	0.382	0.432	0.393	0.421	0.395	0.404	5.2 *
Bromoform *	0.445	0.664	0.615	0.675	0.666	0.613	15.8 *
4-Methyl-2-Pentanone	0.339	0.352	0.301	0.348	0.322	0.332	6.3
2-Hexanone	0.457	0.332	0.279	0.309	0.302	0.336	20.9
Tetrachloroethene *	0.613	0.661	0.665	0.688	0.573	0.640	7.2 *
1,1,2,2-Tetrachloroethane *	0.885	0.912	0.789	0.872	0.821	0.856	5.8 *
Toluene *	1.199	1.250	1.268	1.309	1.145	1.234	5.1 *
Chlorobenzene *	1.127	1.115	1.104	1.138	1.026	1.102	4.0 *
Ethylbenzene *	0.432	0.446	0.440	0.457	0.397	0.434	5.2 *
Styrene *	0.877	0.893	0.910	0.968	0.888	0.907	4.0 *
Xylene (total) *	0.504	0.548	0.533	0.561	0.514	0.532	4.4 *
1,2-Dichloroethane-d4	1.470	1.461	1.343	1.385	1.325	1.397	4.8
Toluene-d8	1.091	1.039	1.045	1.056	1.017	1.050	2.6
Bromofluorobenzene *	0.952	0.900	0.879	0.898	0.905	0.907	3.0 *

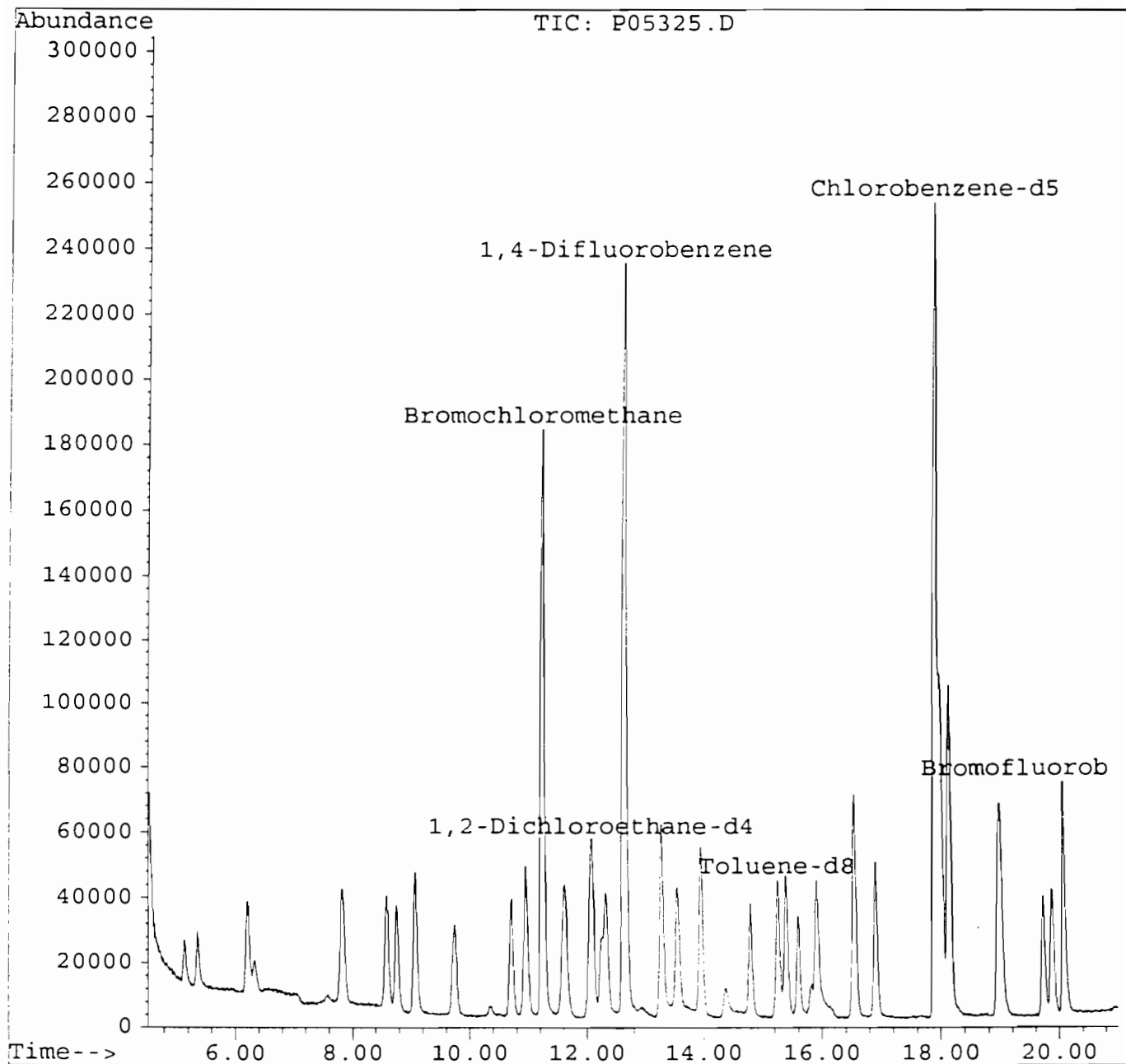
* Compounds with required minimum RRF and maximum %RSD values.
 All other compounds must meet a minimum RRF of 0.010.

Quantitation Report

Data File : S:\MS\HP#3\DEC96\P05325.D
Acq On : 31 Dec 96 1:23 pm
Sample : VSTD010
Misc : H5970-3 12/31/96
Quant Time: Dec 31 15:58 1996

Vial: 9
Operator: GLENN
Inst : 5970 - In
Multiplr: 1.00

Method : S:\MS\HP#3\JAN97\CLPS.M
Title : VOA CLP WATER METHOD
Last Update : Wed Jan 15 13:53:47 1997
Response via : Single Level Calibration



V 0189

Quantitation Report

Data File : S:\MS\HP#3\DEC96\P05325.D
 Acq On : 31 Dec 96 13:23
 Sample : VSTD010
 Misc : H5970-3 12/31/96
 Quant Time: Dec 31 15:58 1996

Vial: 9
 Operator: GLENN
 Inst : 5970 - In
 Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\CLPS.M
 Title : VOA CLP WATER METHOD
 Last Update : Tue Jun 18 12:50:01 1996
 Response via : Continuing Cal File: C:\HPCHEM\1\DATA\P03777.D

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	11.26	128	109163	50.00	UG/L	0.14
21) 1,4-Difluorobenzene	12.65	114	423386	50.00	UG/L	0.13
33) Chlorobenzene-d5	17.92	117	317725	50.00	UG/L	0.16

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	%Recovery
18) 1,2-Dichloroethane-d4	12.10	65	32096	8.71	UG/L	
34) Toluene-d8	15.25	98	69294	10.38	UG/L	
43) Bromofluorobenzene	20.09	95	60489	9.31	UG/L	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Chloromethane	5.14	50	27169	33.50	UG/L	93
3) Vinyl Chloride	5.36	62	32669	23.24	UG/L	98
4) Bromomethane	6.21	94	46967	17.97	UG/L	95
5) Chloroethane	6.33	64	21301	20.13	UG/L	98
6) 1,1-Dichloroethene	7.82	96	40433m	18.14	UG/L	89
7) Carbon Disulfide	8.75	76	109078	42.60	UG/L	95
8) Acetone	7.56	43	9624	7.38	UG/L	98
9) Methylene Chloride	8.59	84	37213	13.35	UG/L	95
13) trans-1,2-Dichloroethene	9.08	96	39750	15.15	UG/L	97
14) cis-,1,2-Dichloroethene	10.71	96	36965	10.79	UG/L	89
15) 1,2-Dichloroethene (total)	9.08	96	86466m	28.02	UG/L	94
16) 1,1-Dichloroethane	9.74	63	70186	12.47	UG/L	92
17) Chloroform	10.96	83	85468	9.19	UG/L	97
19) 1,2-Dichloroethane	12.25	62	43711	8.53	UG/L	93
20) 2-Butanone	10.36	43	10538	5.99	UG/L	66
22) 1,1,1-Trichloroethane	11.63	97	77433	7.94	UG/L	95
23) Carbon Tetrachloride	12.07	117	71387	7.38	UG/L	96
24) Trichloroethene	13.29	130	46897	8.95	UG/L	95
25) Benzene	12.34	78	73918	10.68	UG/L	99
26) 1,2-Dichloropropane	13.56	63	34007	9.80	UG/L	94
27) Bromodichloromethane	13.96	83	81528	6.52	UG/L	99
28) cis-1,3-Dichloropropene	14.79	75	44612	7.58	UG/L	96
29) trans-1,3-Dichloropropene	15.61	75	36316	6.33	UG/L	95
30) 1,1,2-Trichloroethane	15.92	97	32338	7.35	UG/L	90
31) Dibromochloromethane	16.91	129	57357	4.94	UG/L	96
32) Bromoform	19.74	173	37687	4.11	UG/L	98
35) 4-Methyl-2-Pentanone	14.36	43	21513	7.02	UG/L	99
36) Toluene	15.41	91	76212	9.79	UG/L	98
37) Tetrachloroethene	16.55	164	38938	8.94	UG/L	95
38) 2-Hexanone	15.81	43	29009m	9.13	UG/L	90
39) Chlorobenzene	18.00	112	71626	8.96	UG/L	84
40) Ethylbenzene	18.03	106	27455	8.86	UG/L #	88
41) Xylene (total)	18.97	106	32035	8.22	UG/L #	86
42) Styrene	19.03	104	55713	7.96	UG/L	98

(#) = qualifier out of range (m) = manual integration

P05325.D CLPS.M Fri Feb 14 17:08:45 1997 JON

Page 1

V-0190

Quantitation Report

Data File : S:\MS\HP#3\DEC96\P05325.D
 Acq On : 31 Dec 96 13:23
 Sample : VSTD010
 Misc : H5970-3 12/31/96
 Quant Time: Dec 31 15:58 1996

Vial: 9
 Operator: GLENN
 Inst : 5970 - In
 Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\CLPS.M
 Title : VOA CLP WATER METHOD
 Last Update : Tue Jun 18 12:50:01 1996
 Response via : Continuing Cal File: C:\HPCHEM\1\DATA\P03777.D

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
44) m/p-Xylene	18.16	106	68209	17.87	UG/L	94
45) 1,1,2,2-Tetrachloroethane	19.89	83	56257	8.17	UG/L	93

(#) = qualifier out of range (m) = manual integration

P05325.D CLPS.M

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JON

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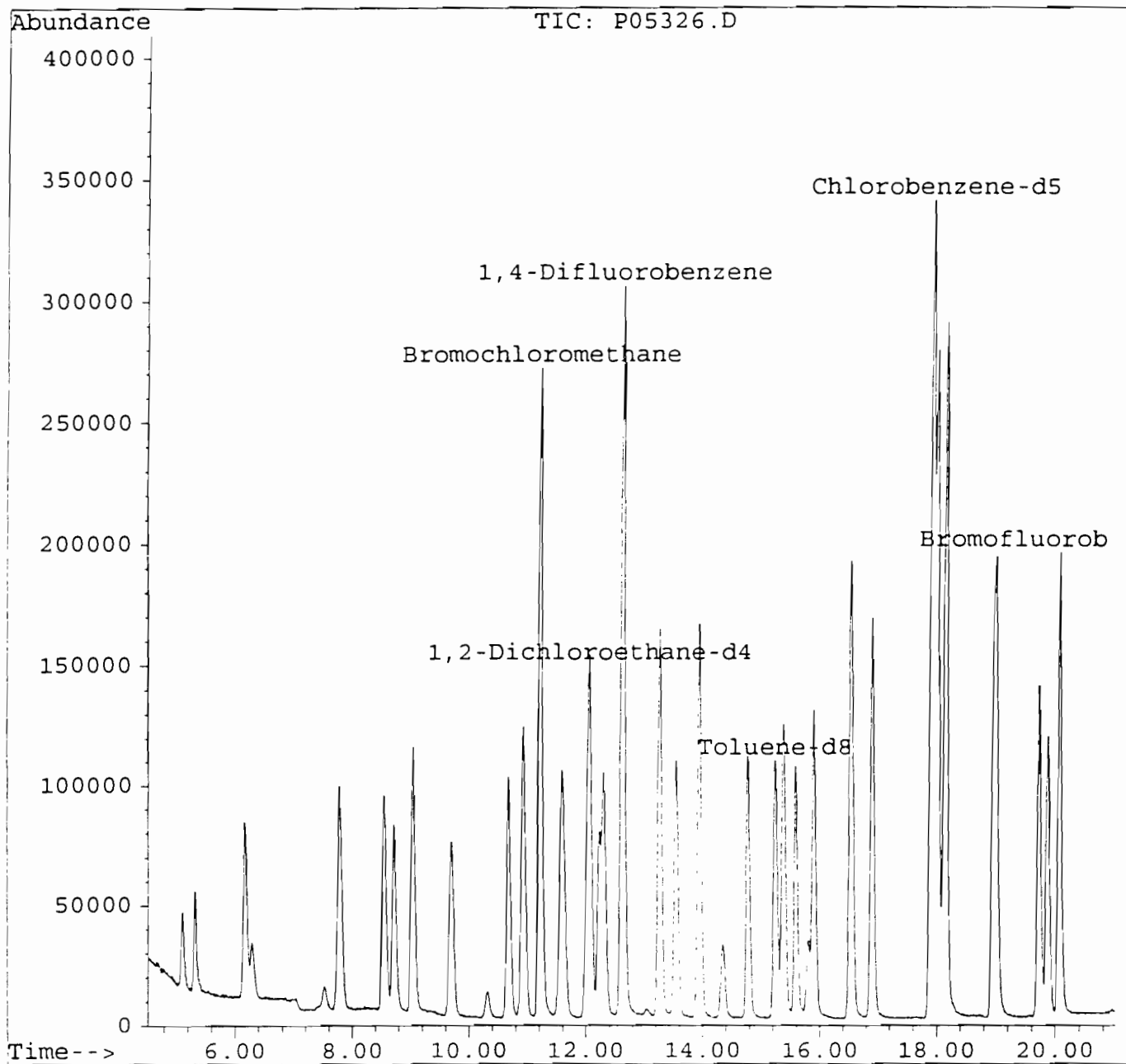
-----V-0191

Quantitation Report

Data File : S:\MS\HP#3\DEC96\P05326.D
 Acq On : 31 Dec 96 1:54 pm
 Sample : VSTD020
 Misc : H5970-3 12/31/96
 Quant Time: Dec 31 15:25 1996

Vial: 10
 Operator: GLENN
 Inst : 5970 - In
 Multiplr: 1.00

Method : S:\MS\HP#3\JAN97\CLPS.M
 Title : VOA CLP WATER METHOD
 Last Update : Wed Jan 15 13:53:47 1997
 Response via : Single Level Calibration



V 0192

Quantitation Report

Data File : S:\MS\HP#3\DEC96\P05326.D
 Acq On : 31 Dec 96 13:54
 Sample : VSTD020
 Misc : H5970-3 12/31/96
 Quant Time: Dec 31 15:25 1996

Vial: 10
 Operator: GLENN
 Inst : 5970 - In
 Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\CLPS.M
 Title : VOA CLP WATER METHOD
 Last Update : Tue Jun 18 12:50:01 1996
 Response via : Continuing Cal File: C:\HPCHEM\1\DATA\P03777.D

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	11.22	128	165771	50.00	UG/L	0.10
21) 1,4-Difluorobenzene	12.63	114	544949	50.00	UG/L	0.11
33) Chlorobenzene-d5	17.92	117	432788	50.00	UG/L	0.16

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	%Recovery
18) 1,2-Dichloroethane-d4	12.08	65	96880	17.31	UG/L	
34) Toluene-d8	15.25	98	179910	19.78	UG/L	
43) Bromofluorobenzene	20.08	95	155838	17.61	UG/L	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Chloromethane	5.12	50	66596	54.07	UG/L	93
3) Vinyl Chloride	5.32	62	73154	34.27	UG/L	99
4) Bromomethane	6.17	94	113004	28.47	UG/L	97
5) Chloroethane	6.29	64	52362	32.59	UG/L	100
6) 1,1-Dichloroethene	7.79	96	93785	27.71	UG/L	90
7) Carbon Disulfide	8.72	76	271517	69.82	UG/L	97
8) Acetone	7.53	43	31781	16.04	UG/L	89
9) Methylene Chloride	8.56	84	101725	24.03	UG/L	97
13) trans-1,2-Dichloroethene	9.04	96	98189	24.65	UG/L	94
14) cis-,1,2-Dichloroethene	10.68	96	102471	19.71	UG/L	91
15) 1,2-Dichloroethene (total)	10.68	96	209107m	44.63	UG/L	- 91
16) 1,1-Dichloroethane	9.71	63	187565	21.95	UG/L	94
17) Chloroform	10.94	83	232008	16.42	UG/L	94
19) 1,2-Dichloroethane	12.24	62	133674	17.17	UG/L	96
20) 2-Butanone	10.32	43	37466	14.03	UG/L	97
22) 1,1,1-Trichloroethane	11.60	97	196074	15.62	UG/L	94
23) Carbon Tetrachloride	12.04	117	186113	14.95	UG/L	91
24) Trichloroethene	13.27	130	124399	18.44	UG/L	97
25) Benzene	12.30	78	202353	22.72	UG/L	98
26) 1,2-Dichloropropane	13.54	63	97992	21.94	UG/L	95
27) Bromodichloromethane	13.95	83	250008	15.53	UG/L	98
28) cis-1,3-Dichloropropene	14.78	75	143214	18.90	UG/L	96
29) trans-1,3-Dichloropropene	15.59	75	125875	17.06	UG/L	95
30) 1,1,2-Trichloroethane	15.91	97	94066	16.60	UG/L	94
31) Dibromochloromethane	16.90	129	199214	13.34	UG/L	99
32) Bromoform	19.74	173	144770	12.25	UG/L	97
35) 4-Methyl-2-Pentanone	14.35	43	60999	14.62	UG/L	93
36) Toluene	15.39	91	216400	20.41	UG/L	98
37) Tetrachloroethene	16.55	164	114448	19.30	UG/L	91
38) 2-Hexanone	15.81	43	57477	13.29	UG/L	93
39) Chlorobenzene	17.99	112	193003	17.73	UG/L	85
40) Ethylbenzene	18.02	106	77149	18.28	UG/L	93
41) Xylene (total)	18.97	106	94926	17.88	UG/L	97
42) Styrene	19.02	104	154616	16.21	UG/L	95

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : S:\MS\HP#3\DEC96\P05326.D
 Acq On : 31 Dec 96 13:54
 Sample : VSTD020
 Misc : H5970-3 12/31/96
 Quant Time: Dec 31 15:25 1996

Vial: 10
 Operator: GLENN
 Inst : 5970 - In
 Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\CLPS.M
 Title : VOA CLP WATER METHOD
 Last Update : Tue Jun 18 12:50:01 1996
 Response via : Continuing Cal File: C:\HPCHEM\1\DATA\P03777.D

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
44) m/p-Xylene	18.15	106	186624	35.90	UG/L	94
45) 1,1,2,2-Tetrachloroethane	19.89	83	157818	16.82	UG/L	92

(#) = qualifier out of range (m) = manual integration

P05326.D CLPS.M

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JON

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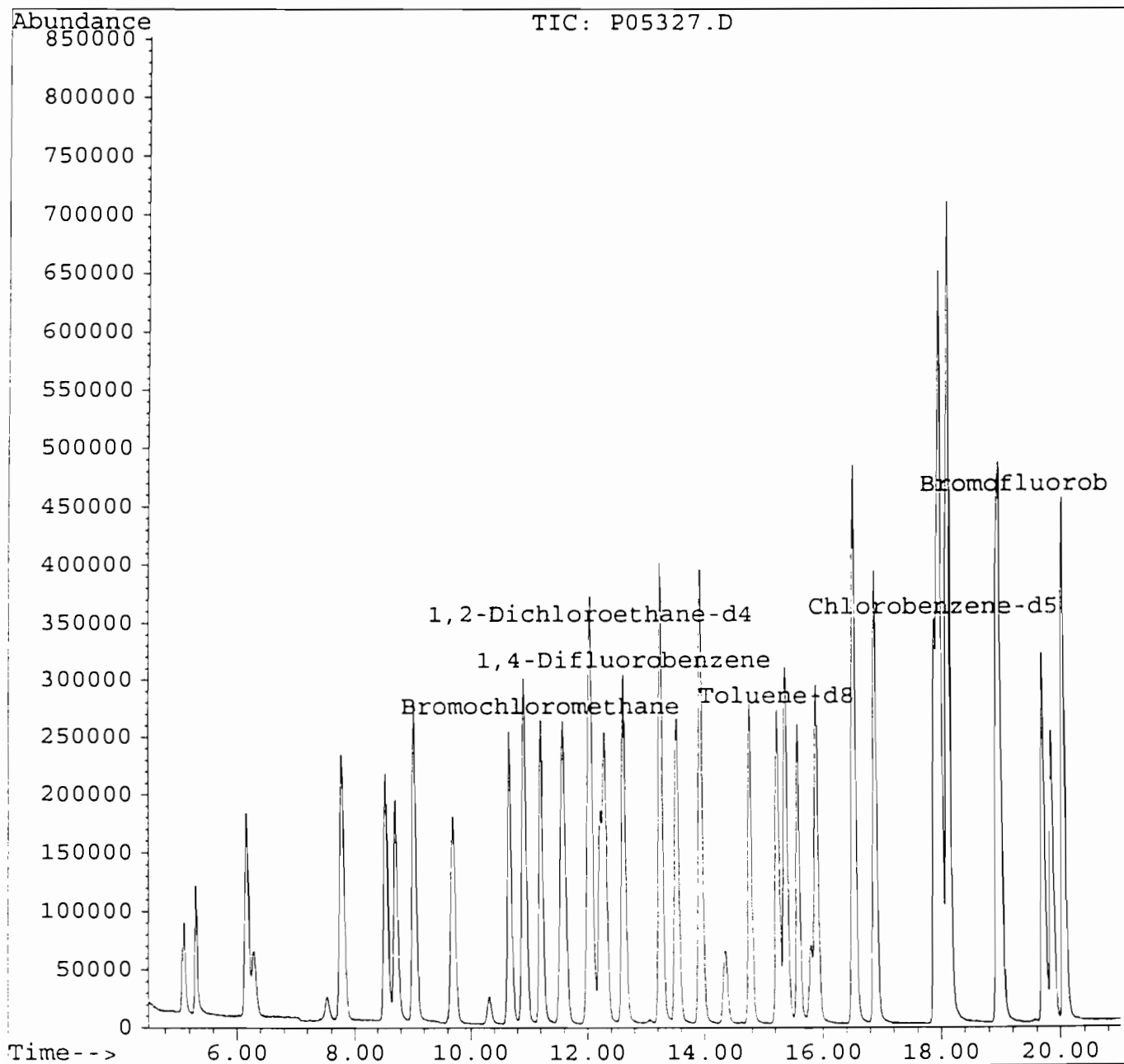
V-0194

Quantitation Report

Data File : S:\MS\HP#3\DEC96\P05327.D
 Acq On : 31 Dec 96 2:25 pm
 Sample : VSTD050
 Misc : H5970-3 12/31/96
 Quant Time: Dec 31 15:26 1996

Vial: 11
 Operator: GLENN
 Inst : 5970 - In
 Multiplr: 1.00

Method : S:\MS\HP#3\JAN97\CLPS.M
 Title : VOA CLP WATER METHOD
 Last Update : Wed Jan 15 13:53:47 1997
 Response via : Single Level Calibration



V 0195

Quantitation Report

Data File : S:\MS\HP#3\DEC96\P05327.D
 Acq On : 31 Dec 96 14:25
 Sample : VSTD050
 Misc : H5970-3 12/31/96
 Quant Time: Dec 31 15:26 1996

Vial: 11
 Operator: GLENN
 Inst : 5970 - In
 Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\CLPS.M
 Title : VOA CLP WATER METHOD
 Last Update : Tue Jun 18 12:50:01 1996
 Response via : Continuing Cal File: C:\HPCHEM\1\DATA\P03777.D

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	11.22	128	160031	50.00	UG/L	0.11
21) 1,4-Difluorobenzene	12.64	114	543573	50.00	UG/L	0.12
33) Chlorobenzene-d5	17.91	117	426386	50.00	UG/L	0.15

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	%Recovery
18) 1,2-Dichloroethane-d4	12.08	65	214961	39.79	UG/L	
34) Toluene-d8	15.25	98	445738	49.75	UG/L	
43) Bromofluorobenzene	20.09	95	374832	42.99	UG/L	#

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Chloromethane	5.12	50	163743	137.71	UG/L	93
3) Vinyl Chloride	5.32	62	174221	84.54	UG/L	99
4) Bromomethane	6.17	94	282476	73.72	UG/L	98
5) Chloroethane	6.30	64	131232	84.60	UG/L	99
6) 1,1-Dichloroethene	7.79	96	235264	72.00	UG/L	# 86
7) Carbon Disulfide	8.73	76	680574	181.29	UG/L	96
8) Acetone	7.52	43	72851	38.09	UG/L	90
9) Methylene Chloride	8.56	84	235103	57.54	UG/L	99
13) trans-1,2-Dichloroethene	9.04	96	250025	65.02	UG/L	96
14) cis-,1,2-Dichloroethene	10.68	96	257229	51.24	UG/L	90
15) 1,2-Dichloroethene (total)	9.04	96	517169m	114.33	UG/L	91
16) 1,1-Dichloroethane	9.70	63	462925	56.13	UG/L	92
17) Chloroform	10.93	83	578022	42.39	UG/L	94
19) 1,2-Dichloroethane	12.22	62	310688	41.34	UG/L	96
20) 2-Butanone	10.33	43	81206	31.51	UG/L	96
22) 1,1,1-Trichloroethane	11.60	97	495768	39.61	UG/L	94
23) Carbon Tetrachloride	12.04	117	471511	37.97	UG/L	93
24) Trichloroethene	13.27	130	305092	45.34	UG/L	97
25) Benzene	12.30	78	508057	57.20	UG/L	99
26) 1,2-Dichloropropane	13.55	63	243355	54.62	UG/L	94
27) Bromodichloromethane	13.94	83	626644	39.03	UG/L	98
28) cis-1,3-Dichloropropene	14.78	75	357066	47.24	UG/L	96
29) trans-1,3-Dichloropropene	15.60	75	303749	41.26	UG/L	95
30) 1,1,2-Trichloroethane	15.91	97	213720	37.82	UG/L	94
31) Dibromochloromethane	16.91	129	478838	32.14	UG/L	98
32) Bromoform	19.73	173	334238	28.36	UG/L	98
35) 4-Methyl-2-Pentanone	14.35	43	128448	31.25	UG/L	97
36) Toluene	15.38	91	540683	51.76	UG/L	98
37) Tetrachloroethene	16.54	164	283683	48.55	UG/L	99
38) 2-Hexanone	15.81	43	119153	27.95	UG/L	98
39) Chlorobenzene	17.99	112	470848	43.90	UG/L	87
40) Ethylbenzene	18.02	106	187463	45.07	UG/L	# 81
41) Xylene (total)	18.97	106	227434	43.49	UG/L	# 77
42) Styrene	19.01	104	388085	41.31	UG/L	92

(#) = qualifier out of range (m) = manual integration

P05327.D CLPS.M Fri Feb 14 17:09:48 1997 JON

Page 1

V-0196

Quantitation Report

Data File : S:\MS\HP#3\DEC96\P05327.D
 Acq On : 31 Dec 96 14:25
 Sample : VSTD050
 Misc : H5970-3 12/31/96
 Quant Time: Dec 31 15:26 1996

Vial: 11
 Operator: GLENN
 Inst : 5970 - In
 Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\CLPS.M
 Title : VOA CLP WATER METHOD
 Last Update : Tue Jun 18 12:50:01 1996
 Response via : Continuing Cal File: C:\HPCHEM\1\DATA\P03777.D

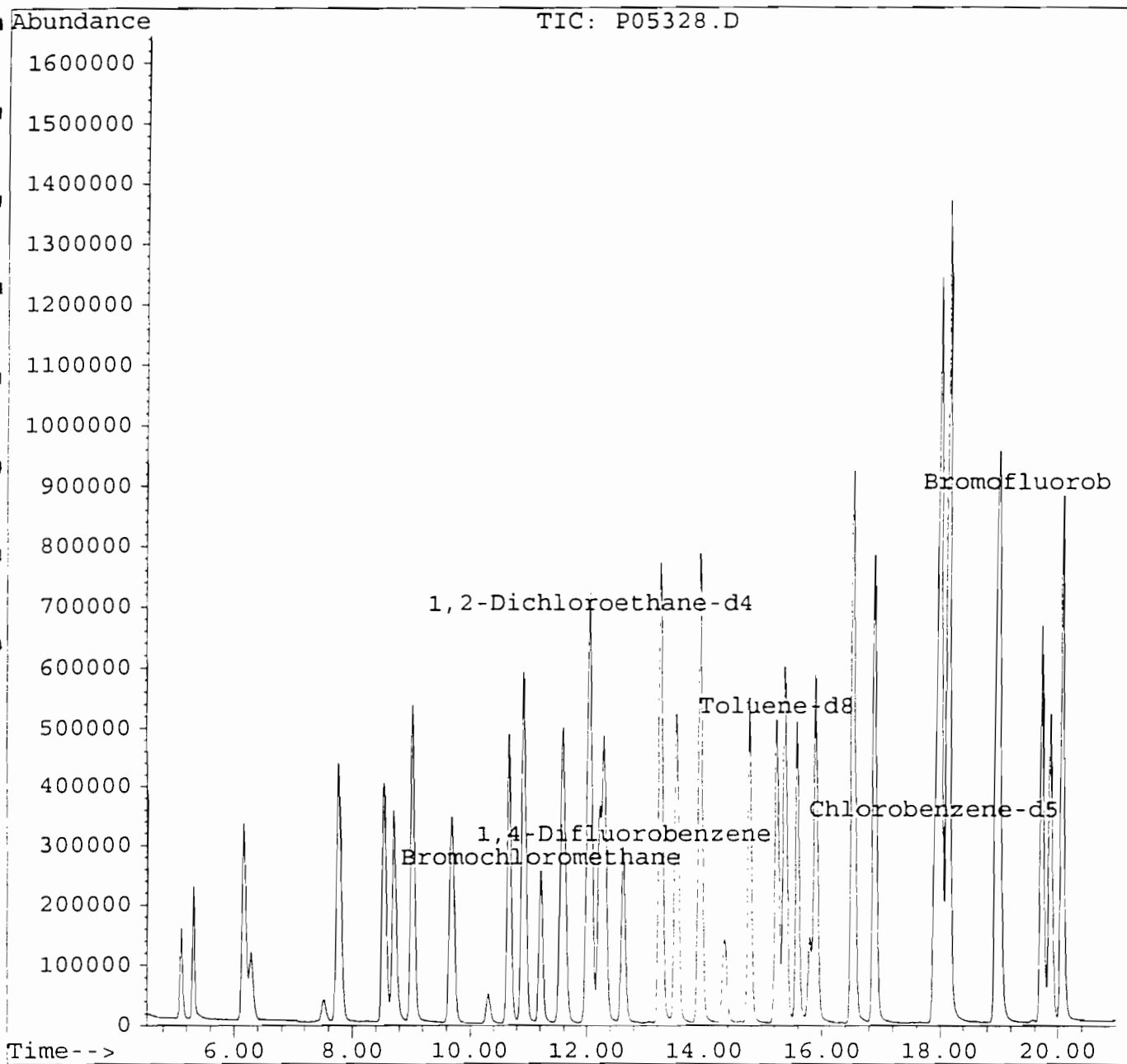
Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
44) m/p-Xylene	18.15	106	472616	92.27	UG/L	91
45) 1,1,2,2-Tetrachloroethane	19.88	83	336208	36.38	UG/L	91

Quantitation Report

Data File : S:\MS\HP#3\DEC96\P05328.D
Acq On : 31 Dec 96 2:56 pm
Sample : VSTD100
Misc : H5970-3 12/31/96
Quant Time: Dec 31 15:27 1996

Vial: 12
Operator: GLENN
Inst : 5970 - In
Multiplr: 1.00

Method : S:\MS\HP#3\JAN97\CLPS.M
Title : VOA CLP WATER METHOD
Last Update : Wed Jan 15 13:53:47 1997
Response via : Single Level Calibration



Quantitation Report

Data File : S:\MS\HP#3\DEC96\P05328.D

Acq On : 31 Dec 96 14:56

Sample : VSTD100

Misc : H5970-3 12/31/96

Quant Time: Dec 31 15:27 1996

Vial: 12

Operator: GLENN

Inst : 5970 - In

Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\CLPS.M

Title : VOA CLP WATER METHOD

Last Update : Tue Jun 18 12:50:01 1996

Response via : Continuing Cal File: C:\HPCHEM\1\DATA\P03777.D

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	11.22	128	153530	50.00	UG/L	0.11
21) 1,4-Difluorobenzene	12.62	114	515151	50.00	UG/L	0.11
33) Chlorobenzene-d5	17.91	117	400942	50.00	UG/L	0.15

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	%Recovery
18) 1,2-Dichloroethane-d4	12.07	65	425320	82.07	UG/L	
34) Toluene-d8	15.25	98	847130	100.55	UG/L	
43) Bromofluorobenzene	20.08	95	720083	87.84	UG/L	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Chloromethane	5.12	50	306958	269.09	UG/L	94
3) Vinyl Chloride	5.31	62	320675	162.20	UG/L	100
4) Bromomethane	6.16	94	540918	147.14	UG/L	98
5) Chloroethane	6.28	64	251025	168.68	UG/L	98
6) 1,1-Dichloroethene	7.78	96	459625	146.63	UG/L	89
7) Carbon Disulfide	8.72	76	1305109	362.38	UG/L	95
8) Acetone	7.53	43	135040	73.60	UG/L	91
9) Methylene Chloride	8.55	84	463576	118.25	UG/L	95
13) trans-1,2-Dichloroethene	9.03	96	486625	131.90	UG/L	96
14) cis-,1,2-Dichloroethene	10.67	96	507760	105.43	UG/L	92
15) 1,2-Dichloroethene (total)	10.67	96	1009753m	232.68	UG/L	97
16) 1,1-Dichloroethane	9.69	63	911138	115.14	UG/L	96
17) Chloroform	10.92	83	1146559	87.64	UG/L	93
19) 1,2-Dichloroethane	12.22	62	633046	87.80	UG/L	93
20) 2-Butanone	10.31	43	164103	66.37	UG/L	97
22) 1,1,1-Trichloroethane	11.59	97	961876	81.08	UG/L	97
23) Carbon Tetrachloride	12.04	117	930523	79.06	UG/L	94
24) Trichloroethene	13.27	130	605692	94.99	UG/L	95
25) Benzene	12.30	78	966958	114.87	UG/L	99
26) 1,2-Dichloropropane	13.53	63	470744	111.48	UG/L	94
27) Bromodichloromethane	13.94	83	1231089	80.91	UG/L	98
28) cis-1,3-Dichloropropene	14.78	75	714759	99.77	UG/L	97
29) trans-1,3-Dichloropropene	15.59	75	615207	88.18	UG/L	94
30) 1,1,2-Trichloroethane	15.90	97	434107	81.06	UG/L	95
31) Dibromochloromethane	16.89	129	964667	68.31	UG/L	95
32) Bromoform	19.73	173	695850	62.31	UG/L	99
35) 4-Methyl-2-Pentanone	14.35	43	279042	72.19	UG/L	96
36) Toluene	15.38	91	1049404	106.83	UG/L	98
37) Tetrachloroethene	16.54	164	551491	100.37	UG/L	99
38) 2-Hexanone	15.80	43	247368	61.72	UG/L	98
39) Chlorobenzene	17.99	112	912723	90.50	UG/L	88
40) Ethylbenzene	18.02	106	366224	93.64	UG/L	# 80
41) Xylene (total)	18.97	106	449495	91.41	UG/L	# 84
42) Styrene	19.02	104	775922	87.83	UG/L	93

(#)=qualifier out of range (m)=manual integration

P05328.D CLPS.M

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JON

Page 1

Quantitation Report

Data File : S:\MS\HP#3\DEC96\P05328.D
 Acq On : 31 Dec 96 14:56
 Sample : VSTD100
 Misc : H5970-3 12/31/96
 Quant Time: Dec 31 15:27 1996

Vial: 12
 Operator: GLENN
 Inst : 5970 - In
 Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\CLPS.M
 Title : VOA CLP WATER METHOD
 Last Update : Tue Jun 18 12:50:01 1996
 Response via : Continuing Cal File: C:\HPCHEM\1\DATA\P03777.D

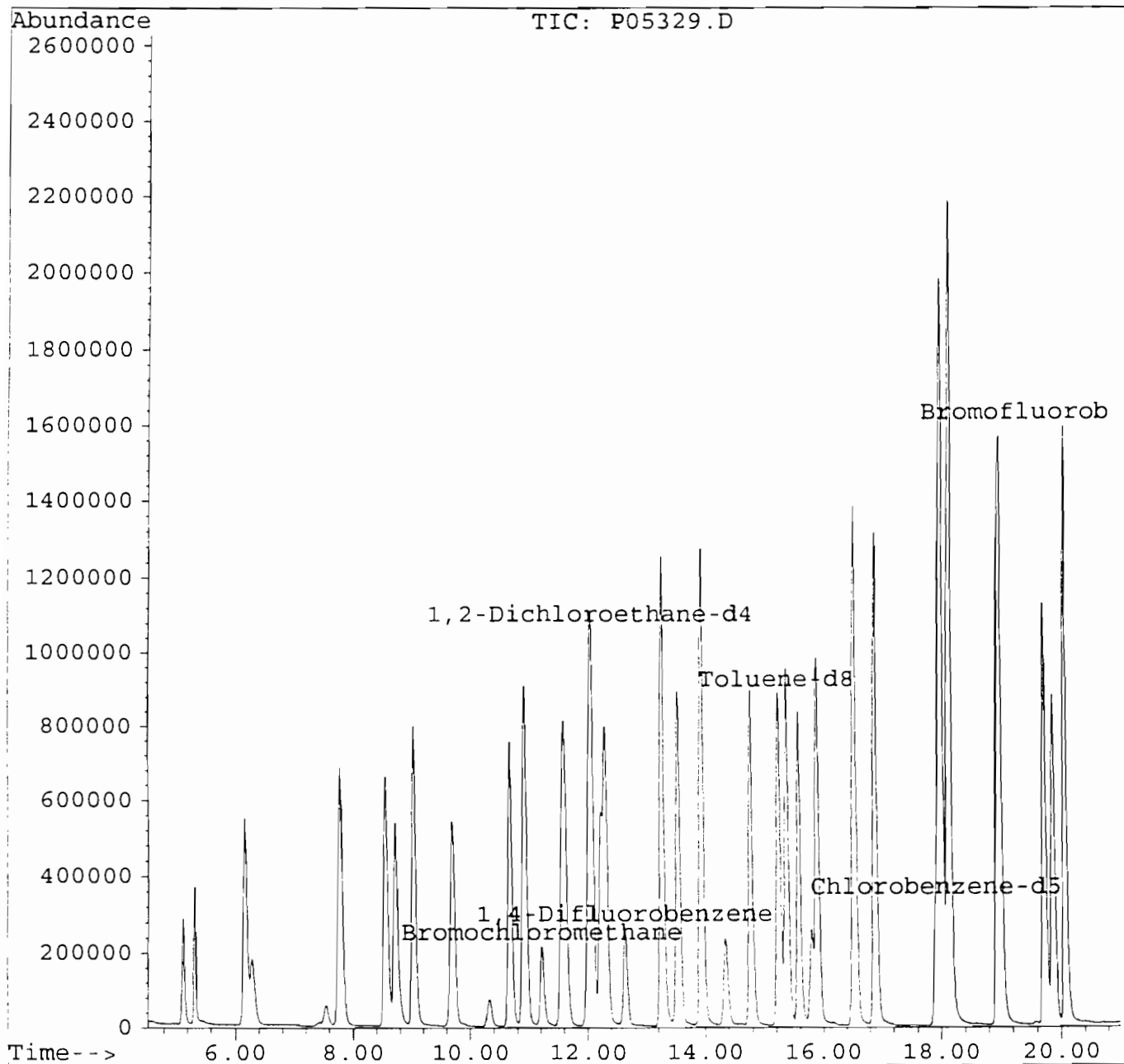
Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
44) m/p-Xylene	18.15	106	914717	189.92	UG/L	95
45) 1,1,2,2-Tetrachloroethane	19.88	83	699283	80.47	UG/L	95

Quantitation Report

Data File : S:\MS\HP#3\DEC96\P05329.D
Acq On : 31 Dec 96 3:27 pm
Sample : VSTD200
Misc : H5970-3 12/31/96
Quant Time: Dec 31 15:54 1996

Vial: 13
Operator: GLENN
Inst : 5970 - In
Multiplr: 1.00

Method : S:\MS\HP#3\JAN97\CLPS.M
Title : VOA CLP WATER METHOD
Last Update : Wed Jan 15 13:53:47 1997
Response via : Single Level Calibration



V 0201

Quantitation Report

Data File : S:\MS\HP#3\DEC96\P05329.D
 Acq On : 31 Dec 96 15:27
 Sample : VSTD200
 Misc : H5970-3 12/31/96
 Quant Time: Dec 31 15:54 1996

Vial: 13
 Operator: GLENN
 Inst : 5970 - In
 Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\CLPS.M
 Title : VOA CLP WATER METHOD
 Last Update : Tue Jun 18 12:50:01 1996
 Response via : Continuing Cal File: C:\HPCHEM\1\DATA\P05327.D

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	11.22	128	130356	50.00	UG/L	0.11
21) 1,4-Difluorobenzene	12.64	114	462132	50.00	UG/L	0.12
33) Chlorobenzene-d5	17.91	117	364829	50.00	UG/L	0.15

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	%Recovery
18) 1,2-Dichloroethane-d4	12.08	65	690794	157.00	UG/L	
34) Toluene-d8	15.25	98	1483978	193.57	UG/L	
43) Bromofluorobenzene	20.08	95	1320691	177.05	UG/L	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Chloromethane	5.13	50	539905	557.43	UG/L	93
3) Vinyl Chloride	5.33	62	501691	298.87	UG/L	100
4) Bromomethane	6.17	94	927896	297.27	UG/L	99
5) Chloroethane	6.30	64	424956	336.32	UG/L	97
6) 1,1-Dichloroethene	7.79	96	699768	262.92	UG/L #	88
7) Carbon Disulfide	8.73	76	2089241	683.23	UG/L	94
8) Acetone	7.55	43	204154	131.06	UG/L	88
9) Methylene Chloride	8.57	84	767869	230.69	UG/L	93
13) trans-1,2-Dichloroethene	9.05	96	731493	233.52	UG/L	97
14) cis-,1,2-Dichloroethene	10.68	96	768317	187.89	UG/L	92
15) 1,2-Dichloroethene (total)	10.68	96	1520793m	412.74	UG/L	94
16) 1,1-Dichloroethane	9.70	63	1394477	207.55	UG/L	97
17) Chloroform	10.94	83	1778880	160.14	UG/L	95
19) 1,2-Dichloroethane	12.23	62	984221	160.78	UG/L	95
20) 2-Butanone	10.32	43	248637	118.44	UG/L	96
22) 1,1,1-Trichloroethane	11.60	97	1586964	149.13	UG/L	96
23) Carbon Tetrachloride	12.05	117	1463009	138.57	UG/L	89
24) Trichloroethene	13.26	130	993648	173.71	UG/L	96
25) Benzene	12.31	78	1621637	214.74	UG/L	99
26) 1,2-Dichloropropane	13.55	63	810012	213.84	UG/L	94
27) Bromodichloromethane	13.95	83	2028675	148.63	UG/L	96
28) cis-1,3-Dichloropropene	14.78	75	1177066	183.16	UG/L	96
29) trans-1,3-Dichloropropene	15.59	75	1033739	165.16	UG/L	93
30) 1,1,2-Trichloroethane	15.91	97	729180	151.79	UG/L	95
31) Dibromochloromethane	16.91	129	1645590	129.90	UG/L	100
32) Bromoform	19.74	173	1230643	122.84	UG/L	98
35) 4-Methyl-2-Pentanone	14.35	43	469585	133.50	UG/L	95
36) Toluene	15.39	91	1671037	186.95	UG/L	97
37) Tetrachloroethene	16.54	164	836252	167.26	UG/L	99
38) 2-Hexanone	15.81	43	440020	120.65	UG/L	96
39) Chlorobenzene	17.98	112	1497326	163.16	UG/L	94
40) Ethylbenzene	18.02	106	579355	162.81	UG/L #	77
41) Xylene (total)	18.96	106	750039	167.63	UG/L	90
42) Styrene	19.01	104	1296307	161.26	UG/L	95

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : S:\MS\HP#3\DEC96\P05329.D
 Acq On : 31 Dec 96 15:27
 Sample : VSTD200
 Misc : H5970-3 12/31/96
 Quant Time: Dec 31 15:54 1996

Vial: 13
 Operator: GLENN
 Inst : 5970 - In
 Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\CLPS.M
 Title : VOA CLP WATER METHOD
 Last Update : Tue Jun 18 12:50:01 1996
 Response via : Continuing Cal File: C:\HPCHEM\1\DATA\P05327.D

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
44) m/p-Xylene	18.15	106	1499552	342.16	UG/L	93
45) 1,1,2,2-Tetrachloroethane	19.88	83	1198209	151.53	UG/L	97

7A
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: H2M LABS INC. Contract: _____
 Lab Code: _____ Case No.: RA096 SAS No.: _____ SDG No.: NDEC012
 Instrument ID: 5970 Calibration Date: 01/24/97 Time: 10:19
 Lab File ID: P05461.D Init. Calib. Date(s): 12/31/96 12/31/96
 Heated Purge: (Y/N) Y Init. Calib. Times: 13:23 15:27
 GC Column: RTX502.2 ID: 0.53 (mm)

COMPOUND	RRF	RRF50	MIN RRF	% D	MAX % D
Chloromethane	1.061	1.066		-0.4	
Bromomethane	1.832	1.988	0.100	-8.5	25.0
Vinyl Chloride	1.139	1.253	0.100	-10.0	25.0
Chloroethane	0.844	1.013		-20.1	
Methylene Chloride	1.538	1.814		-18.0	
Acetone	0.441	0.542		-22.8	
Carbon Disulfide	4.320	5.124		-18.6	
1,1-Dichloroethene	1.515	1.824	0.100	-20.4	25.0
1,1-Dichloroethane	2.916	3.426	0.200	-17.5	25.0
1,2-Dichloroethene (total)	1.655	2.003		-21.0	
Chloroform	3.634	4.512	0.200	-24.1	25.0
1,2-Dichloroethane	1.982	2.358	0.100	-19.0	25.0
2-Butanone	0.513	0.599		-16.7	
1,1,1-Trichloroethane	0.904	1.069	0.100	-18.3	25.0
Carbon Tetrachloride	0.852	1.045	0.100	-22.7	25.0
Bromodichloromethane	1.111	1.292	0.200	-16.3	25.0
1,2-Dichloropropane	0.439	0.472		-7.5	
cis-1,3-Dichloropropene	0.634	0.717	0.200	-13.0	25.0
Trichloroethene	0.562	0.625	0.300	-11.3	25.0
Benzene	0.910	1.020	0.500	-12.1	25.0
Dibromochloromethane	0.860	0.939	0.100	-9.3	25.0
trans-1,3-Dichloropropene	0.544	0.613	0.100	-12.6	25.0
1,1,2-Trichloroethane	0.404	0.425	0.100	-5.0	25.0
Bromoform	0.613	0.648	0.100	-5.7	25.0
4-Methyl-2-Pentanone	0.332	0.312		6.2	
2-Hexanone	0.336	0.315		6.1	
Tetrachloroethene	0.640	0.732	0.200	-14.4	25.0
1,1,2,2-Tetrachloroethane	0.856	0.859	0.500	-0.3	25.0
Toluene	1.234	1.380	0.400	-11.8	25.0
Chlorobenzene	1.102	1.237	0.500	-12.3	25.0
Ethylbenzene	0.434	0.478	0.100	-10.0	25.0
Styrene	0.907	0.979	0.300	-7.9	25.0
Xylene (total)	0.532	0.585	0.300	-9.9	25.0
1,2-Dichloroethane-d4	1.397	1.507		-7.9	
Toluene-d8	1.050	1.037		1.2	
Bromofluorobenzene	0.907	0.947	0.200	-4.4	25.0

All other compounds must meet a minimum RRF of 0.010.

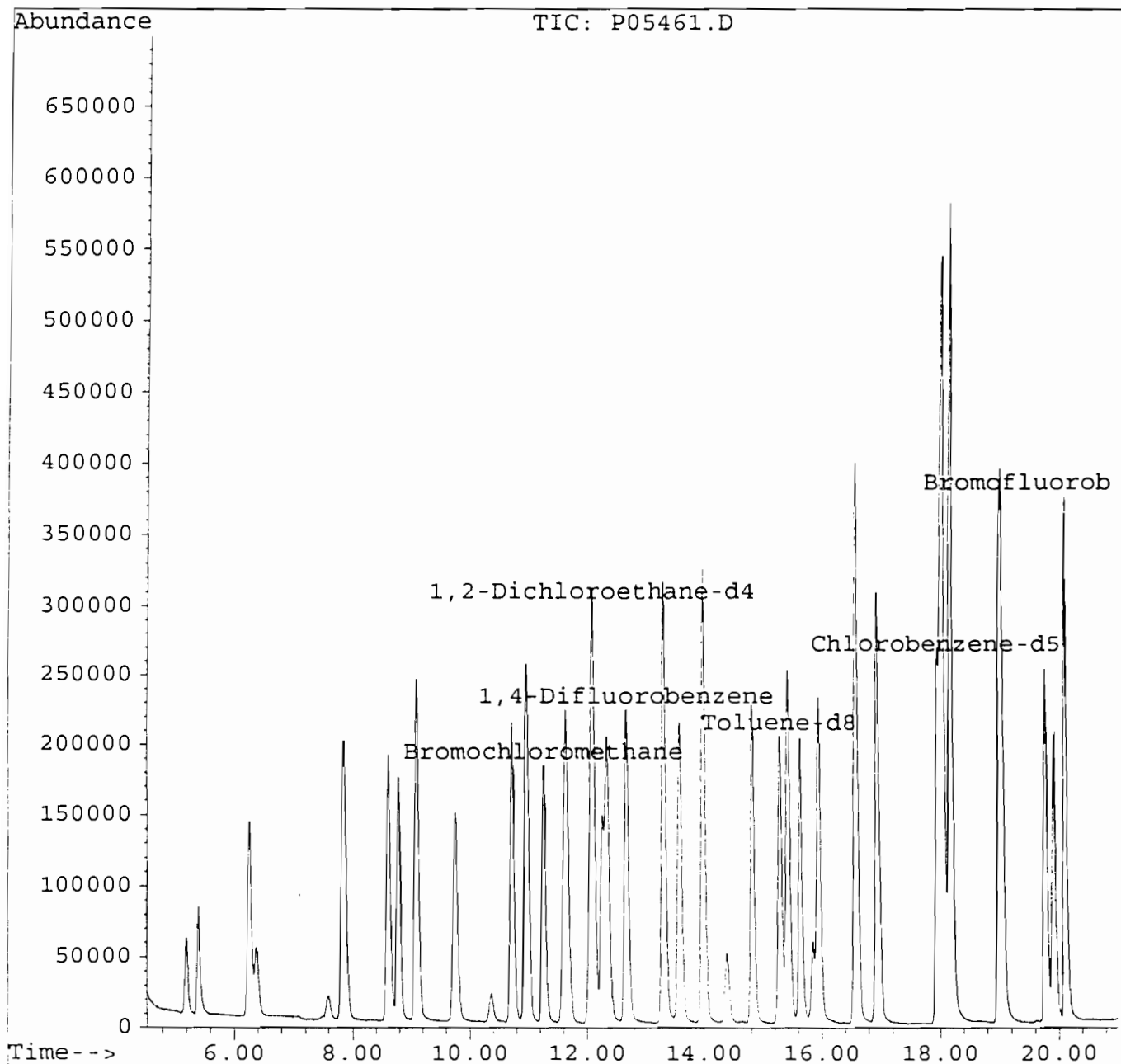
V 0204

Quantitation Report

Data File : S:\MS\HP#3\JAN97\P05461.D
Acq On : 24 Jan 97 10:19 am
Sample : VSTD050
Misc : H5970-3 1/24/97
Quant Time: Jan 24 10:46 1997

Vial: 1
Operator: GLENN
Inst : 5970 - In
Multiplr: 1.00

Method : S:\MS\HP#3\JAN97\CLPS.M
Title : VOA CLP WATER METHOD
Last Update : Wed Jan 15 13:53:47 1997
Response via : Single Level Calibration



Quantitation Report

Data File : S:\MS\HP#3\JAN97\P05461.D
 Acq On : 24 Jan 97 10:19
 Sample : VSTD050
 Misc : H5970-3 1/24/97
 Quant Time: Jan 24 10:46 1997

Vial: 1
 Operator: GLENN
 Inst : 5970 - In
 Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\CLPS.M
 Title : VOA CLP WATER METHOD
 Last Update : Mon Jan 20 11:51:41 1997
 Response via : Continuing Cal File: C:\HPCHEM\1\DATA\P05425.D

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	11.27	128	109635	50.00	UG/L	-0.03
21) 1,4-Difluorobenzene	12.68	114	392211	50.00	UG/L	-0.04
33) Chlorobenzene-d5	17.96	117	313283	50.00	UG/L	-0.04
System Monitoring Compounds						
						%Recovery
18) 1,2-Dichloroethane-d4	12.12	65	165189	51.44	UG/L	102.88%
34) Toluene-d8	15.29	98	324802	50.83	UG/L	101.65%
43) Bromofluorobenzene	20.13	95	296686	51.81	UG/L	103.62%
Target Compounds						
						Qvalue
2) Chloromethane	5.20	50	116817	50.37	UG/L	92
3) Vinyl Chloride	5.41	62	137420	52.54	UG/L	100
4) Bromomethane	6.26	94	217977	56.62	UG/L	98
5) Chloroethane	6.38	64	111087	56.35	UG/L	100
6) 1,1-Dichloroethene	7.87	96	199957	56.77	UG/L #	85
7) Carbon Disulfide	8.79	76	561779	55.96	UG/L	94
8) Acetone	7.59	43	59404	46.82	UG/L	89
9) Methylene Chloride	8.62	84	198903	55.66	UG/L	97
13) trans-1,2-Dichloroethene	9.11	96	215635	57.67	UG/L	95
14) cis-,1,2-Dichloroethene	10.73	96	214436	55.45	UG/L	89
15) 1,2-Dichloroethene (total)	9.11	96	439239m	112.53	UG/L	90
16) 1,1-Dichloroethane	9.77	63	375607	54.02	UG/L	94
17) Chloroform	10.98	83	494623	56.27	UG/L	94
19) 1,2-Dichloroethane	12.28	62	258530	51.79	UG/L	93
20) 2-Butanone	10.37	43	65689	46.57	UG/L	96
22) 1,1,1-Trichloroethane	11.65	97	419111	55.92	UG/L	94
23) Carbon Tetrachloride	12.11	117	409913	56.67	UG/L	93
24) Trichloroethene	13.31	130	245316	53.66	UG/L	94
25) Benzene	12.36	78	400195	50.45	UG/L	97
26) 1,2-Dichloropropane	13.59	63	184937	48.97	UG/L	92
27) Bromodichloromethane	13.99	83	506665	53.37	UG/L	98
28) cis-1,3-Dichloropropene	14.83	75	281153	50.93	UG/L	94
29) trans-1,3-Dichloropropene	15.64	75	240322	49.55	UG/L	97
30) 1,1,2-Trichloroethane	15.96	97	166562	48.98	UG/L	94
31) Dibromochloromethane	16.95	129	368409	50.03	UG/L	99
32) Bromoform	19.79	173	254163	48.09	UG/L	97
35) 4-Methyl-2-Pentanone	14.39	43	97687	42.48	UG/L	93
36) Toluene	15.43	91	432399	52.38	UG/L	100
37) Tetrachloroethene	16.59	164	229451	53.31	UG/L	99
38) 2-Hexanone	15.84	43	98713	45.33	UG/L	94
39) Chlorobenzene	18.03	112	387658	52.61	UG/L	89
40) Ethylbenzene	18.07	106	149606	52.16	UG/L #	74
41) Xylene (total)	19.02	106	183223	52.16	UG/L #	88
42) Styrene	19.06	104	306703	51.59	UG/L	92

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : S:\MS\HP#3\JAN97\P05461.D
 Acq On : 24 Jan 97 10:19
 Sample : VSTD050
 Misc : H5970-3 1/24/97
 Quant Time: Jan 24 10:46 1997

Vial: 1
 Operator: GLENN
 Inst : 5970 - In
 Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\CLPS.M
 Title : VOA CLP WATER METHOD
 Last Update : Mon Jan 20 11:51:41 1997
 Response via : Continuing Cal File: C:\HPCHEM\1\DATA\P05425.D

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
44) m/p-Xylene	18.20	106	381644	106.06	UG/L	95
45) 1,1,2,2-Tetrachloroethane	19.93	83	268944	46.91	UG/L	94

7A
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: H2M LABS INC. Contract: _____
 Lab Code: _____ Case No.: RA096 SAS No.: _____ SDG No.: NDEC012
 Instrument ID: 5970 Calibration Date: 01/27/97 Time: 15:21
 Lab File ID: P05484.D Init. Calib. Date(s): 12/31/96 12/31/96
 Heated Purge: (Y/N) Y Init. Calib. Times: 13:23 15:27
 GC Column: RTX502.2 ID: 0.53 (mm)

COMPOUND	RRF	RRF50	MIN RRF	% D	MAX % D
Chloromethane	1.061	1.005		5.3	
Bromomethane	1.832	1.923	0.100	-5.0	25.0
Vinyl Chloride	1.139	1.210	0.100	-6.2	25.0
Chloroethane	0.844	0.954		-13.1	
Methylene Chloride	1.538	1.715		-11.5	
Acetone	0.441	0.569		-28.9	
Carbon Disulfide	4.320	4.699		-8.8	
1,1-Dichloroethene	1.515	1.721	0.100	-13.6	25.0
1,1-Dichloroethane	2.916	3.499	0.200	-20.0	25.0
1,2-Dichloroethene (total)	1.655	1.886		-14.0	
Chloroform	3.634	4.528	0.200	-24.6	25.0
1,2-Dichloroethane	1.982	2.375	0.100	-19.8	25.0
2-Butanone	0.513	0.621		-21.0	
1,1,1-Trichloroethane	0.904	1.023	0.100	-13.2	25.0
Carbon Tetrachloride	0.852	0.991	0.100	-16.3	25.0
Bromodichloromethane	1.111	1.241	0.200	-11.7	25.0
1,2-Dichloropropane	0.439	0.452		-3.1	
cis-1,3-Dichloropropene	0.634	0.688	0.200	-8.4	25.0
Trichloroethene	0.562	0.602	0.300	-7.1	25.0
Benzene	0.910	0.953	0.500	-4.7	25.0
Dibromochloromethane	0.860	0.912	0.100	-6.0	25.0
trans-1,3-Dichloropropene	0.544	0.594	0.100	-9.1	25.0
1,1,2-Trichloroethane	0.404	0.405	0.100	-0.2	25.0
Bromoform	0.613	0.650	0.100	-6.0	25.0
4-Methyl-2-Pentanone	0.332	0.316		5.0	
2-Hexanone	0.336	0.315		6.2	
Tetrachloroethene	0.640	0.709	0.200	-10.8	25.0
1,1,2,2-Tetrachloroethane	0.856	0.839	0.500	2.0	25.0
Toluene	1.234	1.328	0.400	-7.6	25.0
Chlorobenzene	1.102	1.166	0.500	-5.8	25.0
Ethylbenzene	0.434	0.455	0.100	-4.8	25.0
Styrene	0.907	0.957	0.300	-5.4	25.0
Xylene (total)	0.532	0.566	0.300	-6.3	25.0
1,2-Dichloroethane-d4	1.397	1.544		-10.5	
Toluene-d8	1.050	1.027		2.1	
Bromofluorobenzene	0.907	0.960	0.200	-5.9	25.0

All other compounds must meet a minimum RRF of 0.010.

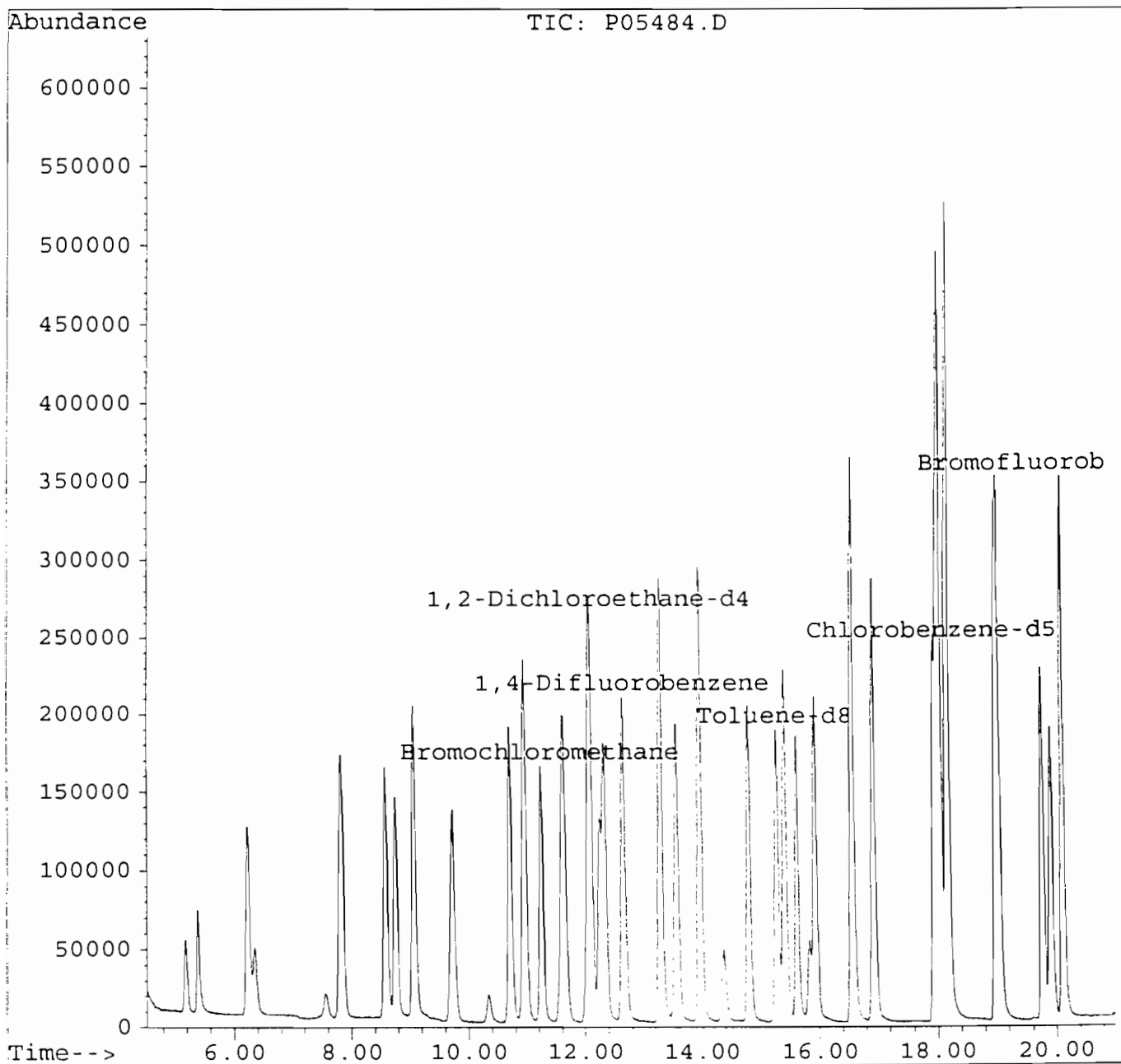
V 0208

Quantitation Report

Data File : S:\MS\HP#3\JAN97\P05484.D
 Acq On : 27 Jan 97 3:21 pm
 Sample : VSTD050
 Misc : H5970-3 1/27/97
 Quant Time: Jan 27 15:48 1997

Vial: 1
 Operator: GLENN
 Inst : 5970 - In
 Multiplr: 1.00

Method : S:\MS\HP#3\JAN97\CLPS.M
 Title : VOA CLP WATER METHOD
 Last Update : Wed Jan 15 13:53:47 1997
 Response via : Single Level Calibration



v C209

Quantitation Report

Data File : S:\MS\HP#3\JAN97\P05484.D
 Acq On : 27 Jan 97 15:21
 Sample : VSTD050
 Misc : H5970-3 1/27/97
 Quant Time: Jan 27 15:48 1997

Vial: 1
 Operator: GLENN
 Inst : 5970 - In
 Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\CLPS.M
 Title : VOA CLP WATER METHOD
 Last Update : Fri Jan 24 10:47:18 1997
 Response via : Continuing Cal File: C:\HPCHEM\1\DATA\P05461.D

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	11.26	128	98034	50.00	UG/L	-0.01
21) 1,4-Difluorobenzene	12.66	114	366979	50.00	UG/L	-0.02
33) Chlorobenzene-d5	17.95	117	293533	50.00	UG/L	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	%Recovery
18) 1,2-Dichloroethane-d4	12.11	65	151363	51.24	UG/L	102.47%
34) Toluene-d8	15.28	98	301557	49.55	UG/L	99.09%
43) Bromofluorobenzene	20.12	95	281822	50.69	UG/L	101.38%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Chloromethane	5.18	50	98492	47.15	UG/L	96
3) Vinyl Chloride	5.40	62	118586	48.25	UG/L	97
4) Bromomethane	6.24	94	188549	48.37	UG/L	96
5) Chloroethane	6.36	64	93523	47.08	UG/L	98
6) 1,1-Dichloroethene	7.83	96	168713	47.18	UG/L	# 80
7) Carbon Disulfide	8.76	76	460684	45.85	UG/L	91
8) Acetone	7.58	43	55785	52.51	UG/L	88
9) Methylene Chloride	8.59	84	168116	47.26	UG/L	94
13) trans-1,2-Dichloroethene	9.08	96	174751	45.32	UG/L	95
14) cis-,1,2-Dichloroethene	10.71	96	184563	48.13	UG/L	89
15) 1,2-Dichloroethene (total)	10.71	96	369863m	94.17	UG/L	83
16) 1,1-Dichloroethane	9.74	63	343049	51.07	UG/L	93
17) Chloroform	10.96	83	443937	50.19	UG/L	97
19) 1,2-Dichloroethane	12.26	62	232822	50.36	UG/L	93
20) 2-Butanone	10.35	43	60872	51.82	UG/L	96
22) 1,1,1-Trichloroethane	11.63	97	375265	47.85	UG/L	94
23) Carbon Tetrachloride	12.08	117	363617	47.40	UG/L	99
24) Trichloroethene	13.30	130	220883	48.12	UG/L	94
25) Benzene	12.35	78	349781	46.71	UG/L	99
26) 1,2-Dichloropropane	13.59	63	166032	47.98	UG/L	90
27) Bromodichloromethane	13.97	83	455470	48.04	UG/L	98
28) cis-1,3-Dichloropropene	14.82	75	252338	47.96	UG/L	96
29) trans-1,3-Dichloropropene	15.63	75	217912	48.45	UG/L	97
30) 1,1,2-Trichloroethane	15.94	97	148742	47.72	UG/L	94
31) Dibromochloromethane	16.93	129	334553	48.53	UG/L	99
32) Bromoform	19.77	173	238458	50.14	UG/L	98
35) 4-Methyl-2-Pentanone	14.38	43	92683	50.63	UG/L	95
36) Toluene	15.42	91	389678	48.09	UG/L	98
37) Tetrachloroethene	16.57	164	208101	48.40	UG/L	99
38) 2-Hexanone	15.84	43	92364	49.93	UG/L	99
39) Chlorobenzene	18.03	112	342112	47.09	UG/L	88
40) Ethylbenzene	18.06	106	133655	47.67	UG/L	# 90
41) Xylene (total)	19.01	106	165990	48.35	UG/L	# 82
42) Styrene	19.05	104	280773	48.85	UG/L	90

(#) = qualifier out of range (m) = manual integration
 P05484.D CLPS.M Tue Feb 11 17:30:12 1997 JON

V-0210

Quantitation Report

Data File : S:\MS\HP#3\JAN97\P05484.D
 Acq On : 27 Jan 97 15:21
 Sample : VSTD050
 Misc : H5970-3 1/27/97
 Quant Time: Jan 27 15:48 1997

Vial: 1
 Operator: GLENN
 Inst : 5970 - In
 Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\CLPS.M
 Title : VOA CLP WATER METHOD
 Last Update : Fri Jan 24 10:47:18 1997
 Response via : Continuing Cal File: C:\HPCHEM\1\DATA\P05461.D

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
44) m/p-Xylene	18.18	106	346165	96.81	UG/L	93
45) 1,1,2,2-Tetrachloroethane	19.92	83	246266	48.86	UG/L	98

7A
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: H2M LABS INC. Contract: _____
 Lab Code: _____ Case No.: RA096 SAS No.: _____ SDG No.: NDEC012
 Instrument ID: 5970 Calibration Date: 01/28/97 Time: 12:21
 Lab File ID: P05498.D Init. Calib. Date(s): 12/31/96 12/31/96
 Heated Purge: (Y/N) N Init. Calib. Times: 11:19 16:42
 GC Column: RTX502.2 ID: 0.53 (mm)

COMPOUND	RRF	RRF50	MIN RRF	% D	MAX % D
Chloromethane	1.272	1.025		19.4	
Bromomethane	2.096	2.079	0.100	0.8	25.0
Vinyl Chloride	1.391	1.313	0.100	5.6	25.0
Chloroethane	0.976	0.986		-1.0	
Methylene Chloride	1.641	1.772		-8.0	
Acetone	0.342	0.390		-14.0	
Carbon Disulfide	4.977	5.223		-5.0	
1,1-Dichloroethene	1.739	1.934	0.100	-11.2	25.0
1,1-Dichloroethane	3.308	3.629	0.200	-9.7	25.0
1,2-Dichloroethene (total)	1.859	2.027		-9.1	
Chloroform	4.054	4.813	0.200	-18.7	25.0
1,2-Dichloroethane	2.003	2.370	0.100	-18.3	25.0
2-Butanone	0.367	0.381		-3.8	
1,1,1-Trichloroethane	0.946	1.118	0.100	-18.2	25.0
Carbon Tetrachloride	0.912	1.141	0.100	-25.1	25.0
Bromodichloromethane	1.100	1.266	0.200	-15.0	25.0
1,2-Dichloropropane	0.443	0.434		2.1	
cis-1,3-Dichloropropene	0.629	0.640	0.200	-1.7	25.0
Trichloroethene	0.606	0.620	0.300	-2.2	25.0
Benzene	0.963	0.983	0.500	-2.0	25.0
Dibromochloromethane	0.777	0.862	0.100	-11.0	25.0
trans-1,3-Dichloropropene	0.492	0.518	0.100	-5.2	25.0
1,1,2-Trichloroethane	0.353	0.345	0.100	2.0	25.0
Bromoform	0.503	0.545	0.100	-8.4	25.0
4-Methyl-2-Pentanone	0.255	0.188		26.3	
2-Hexanone	0.212	0.193		8.9	
Tetrachloroethene	0.725	0.759	0.200	-4.8	25.0
1,1,2,2-Tetrachloroethane	0.633	0.614	0.500	3.0	25.0
Toluene	1.359	1.295	0.400	4.7	25.0
Chlorobenzene	1.175	1.159	0.500	1.4	25.0
Ethylbenzene	0.474	0.470	0.100	0.8	25.0
Styrene	0.958	0.897	0.300	6.4	25.0
Xylene (total)	0.580	0.554	0.300	4.4	25.0
1,2-Dichloroethane-d4	1.349	1.520		-12.7	
Toluene-d8	1.109	1.001		9.7	
Bromofluorobenzene	0.892	0.962	0.200	-7.8	25.0

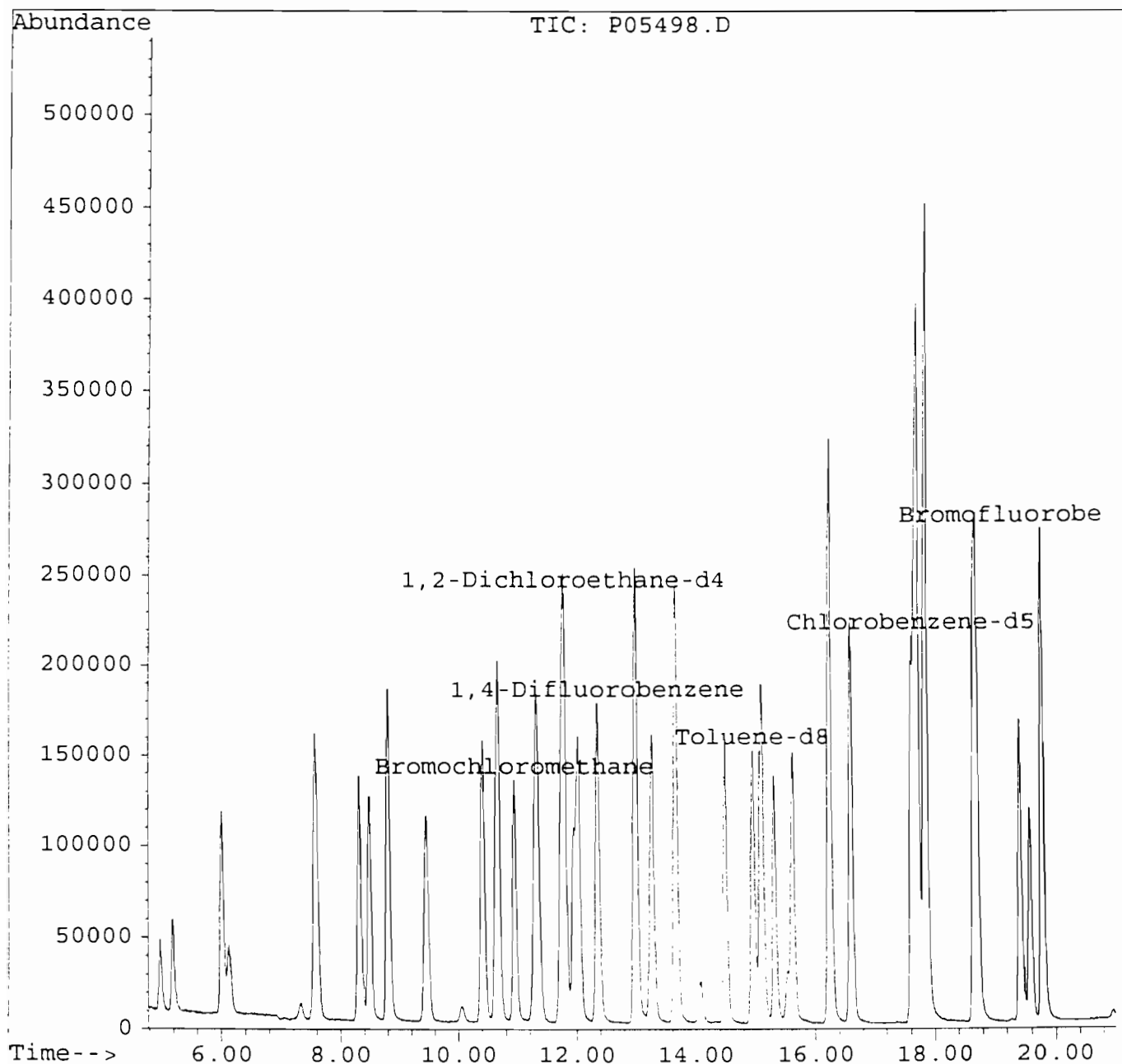
All other compounds must meet a minimum RRF of 0.010.

Quantitation Report

Data File : S:\MS\HP#3\JAN97\P05498.D
Acq On : 28 Jan 97 12:21 pm
Sample : VSTD050
Misc : H5970-3 1/28/97
Quant Time: Jan 28 12:52 1997

Vial: 3
Operator: GLENN
Inst : 5970 - In
Multiplr: 1.00

Method : S:\MS\HP#3\JAN97\CLPS.M
Title : VOA CLP WATER METHOD
Last Update : Wed Jan 15 13:53:47 1997
Response via : Single Level Calibration



V C213

Quantitation Report

Data File : S:\MS\HP#3\JAN97\P05498.D
 Acq On : 28 Jan 97 12:21
 Sample : VSTD050
 Misc : H5970-3 1/28/97
 Quant Time: Jan 28 12:52 1997

Vial: 3
 Operator: GLENN
 Inst : 5970 - In
 Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\CLPW.M
 Title : VOA CLP WATER METHOD
 Last Update : Tue Jan 28 12:50:21 1997
 Response via : Continuing Cal File: C:\HPCHEM\1\DATA\P05498.D

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	10.95	128	78170	50.00	UG/L	0.00
21) 1,4-Difluorobenzene	12.36	114	306444	50.00	UG/L	0.00
33) Chlorobenzene-d5	17.63	117	243567	50.00	UG/L	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	%Recovery
18) 1,2-Dichloroethane-d4	11.80	65	118831	50.00	UG/L	100.00%
34) Toluene-d8	14.97	98	243763	49.66	UG/L	99.32%
43) Bromofluorobenzene	19.78	95	234361	48.88	UG/L	97.76%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Chloromethane	4.98	50	80084	50.00	UG/L	91
3) Vinyl Chloride	5.18	62	102656	50.00	UG/L	95
4) Bromomethane	6.02	94	162545	50.00	UG/L	97
5) Chloroethane	6.14	64	77054	50.00	UG/L	99
6) 1,1-Dichloroethene	7.59	96	151188	50.00	UG/L	# 84
7) Carbon Disulfide	8.50	76	408295	50.00	UG/L	93
8) Acetone	7.33	43	30476	50.00	UG/L	89
9) Methylene Chloride	8.32	84	138527	50.00	UG/L	96
13) trans-1,2-Dichloroethene	8.80	96	157533	50.00	UG/L	92
14) cis-,1,2-Dichloroethene	10.41	96	152358	50.00	UG/L	89
15) 1,2-Dichloroethene (total)	8.80	96	316937m	100.08	UG/L	-78
16) 1,1-Dichloroethane	9.46	63	283659	50.00	UG/L	97
17) Chloroform	10.67	83	376205	50.00	UG/L	95
19) 1,2-Dichloroethane	11.95	62	185266	50.00	UG/L	92
20) 2-Butanone	10.05	43	29750	50.00	UG/L	94
22) 1,1,1-Trichloroethane	11.32	97	342555	50.00	UG/L	94
23) Carbon Tetrachloride	11.78	117	349567m	95.95	UG/L	97
24) Trichloroethene	12.98	130	189931	50.00	UG/L	97
25) Benzene	12.03	78	301094	50.00	UG/L	100
26) 1,2-Dichloropropane	13.26	63	133020	50.00	UG/L	# 86
27) Bromodichloromethane	13.66	83	387834	50.00	UG/L	97
28) cis-1,3-Dichloropropene	14.51	75	196084	50.00	UG/L	94
29) trans-1,3-Dichloropropene	15.31	75	158727	50.00	UG/L	95
30) 1,1,2-Trichloroethane	15.63	97	105860	50.00	UG/L	95
31) Dibromochloromethane	16.61	129	264123	50.00	UG/L	96
32) Bromoform	19.43	173	167122	50.00	UG/L	97
35) 4-Methyl-2-Pentanone	14.09	43	45685	48.70	UG/L	97
36) Toluene	15.10	91	315428	49.61	UG/L	97
37) Tetrachloroethene	16.26	164	184907	49.63	UG/L	95
38) 2-Hexanone	15.54	43	47042	48.81	UG/L	97
39) Chlorobenzene	17.69	112	282361	50.76	UG/L	89
40) Ethylbenzene	17.73	106	114533	47.38	UG/L	# 79
41) Xylene (total)	18.67	106	135026	49.52	UG/L	# 83
42) Styrene	18.71	104	218411	49.70	UG/L	96

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : S:\MS\HP#3\JAN97\P05498.D
Acq On : 28 Jan 97 12:21
Sample : VSTD050
Misc : H5970-3 1/28/97
Quant Time: Jan 28 12:52 1997

Vial: 3
Operator: GLENN
Inst : 5970 - In
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\CLPW.M
Title : VOA CLP WATER METHOD
Last Update : Tue Jan 28 12:50:21 1997
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\P05498.D

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
44) m/p-Xylene	17.86	106	279461	98.52	UG/L #	89
45) 1,1,2,2-Tetrachloroethane	19.58	83	149518	49.63	UG/L	91

7A
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: H2M LABS INC. Contract: _____
 Lab Code: _____ Case No.: RA096 SAS No.: _____ SDG No.: NDEC012
 Instrument ID: 5970 Calibration Date: 01/29/97 Time: 13:49
 Lab File ID: P05519.D Init. Calib. Date(s): 12/31/96 12/31/96
 Heated Purge: (Y/N) N Init. Calib. Times: 11:19 16:42
 GC Column: RTX502.2 ID: 0.53 (mm)

COMPOUND	RRF	RRF50	MIN RRF	% D	MAX % D
Chloromethane	1.272	1.064		16.4	
Bromomethane	2.096	2.320	0.100	-10.7	25.0
Vinyl Chloride	1.391	1.374	0.100	1.2	25.0
Chloroethane	0.976	1.070		-9.6	
Methylene Chloride	1.641	1.805		-10.0	
Acetone	0.342	0.351		-2.7	
Carbon Disulfide	4.977	5.283		-6.2	
1,1-Dichloroethene	1.739	2.107	0.100	-21.2	25.0
1,1-Dichloroethane	3.308	4.023	0.200	-21.6	25.0
1,2-Dichloroethene (total)	1.859	2.188		-17.7	
Chloroform	4.054	5.105	0.200	-25.9	25.0
1,2-Dichloroethane	2.003	2.228	0.100	-11.2	25.0
2-Butanone	0.367	0.371		-1.2	
1,1,1-Trichloroethane	0.946	1.049	0.100	-11.0	25.0
Carbon Tetrachloride	0.912	1.026	0.100	-12.5	25.0
Bromodichloromethane	1.100	1.142	0.200	-3.8	25.0
1,2-Dichloropropane	0.443	0.429		3.3	
cis-1,3-Dichloropropene	0.629	0.613	0.200	2.7	25.0
Trichloroethene	0.606	0.629	0.300	-3.8	25.0
Benzene	0.963	0.970	0.500	-0.7	25.0
Dibromochloromethane	0.777	0.771	0.100	0.7	25.0
trans-1,3-Dichloropropene	0.492	0.474	0.100	3.8	25.0
1,1,2-Trichloroethane	0.353	0.317	0.100	10.1	25.0
Bromoform	0.503	0.469	0.100	6.9	25.0
4-Methyl-2-Pentanone	0.255	0.162		36.4	
2-Hexanone	0.212	0.160		24.6	
Tetrachloroethene	0.725	0.783	0.200	-8.0	25.0
1,1,2,2-Tetrachloroethane	0.633	0.535	0.500	15.5	25.0
Toluene	1.359	1.345	0.400	1.0	25.0
Chlorobenzene	1.175	1.180	0.500	-0.4	25.0
Ethylbenzene	0.474	0.479	0.100	-1.1	25.0
Styrene	0.958	0.903	0.300	5.8	25.0
Xylene (total)	0.580	0.560	0.300	3.5	25.0
1,2-Dichloroethane-d4	1.349	1.408		-4.4	
Toluene-d8	1.109	1.036		6.5	
Bromofluorobenzene	0.892	0.931	0.200	-4.3	25.0

All other compounds must meet a minimum RRF of 0.010.

FORM VII VOA

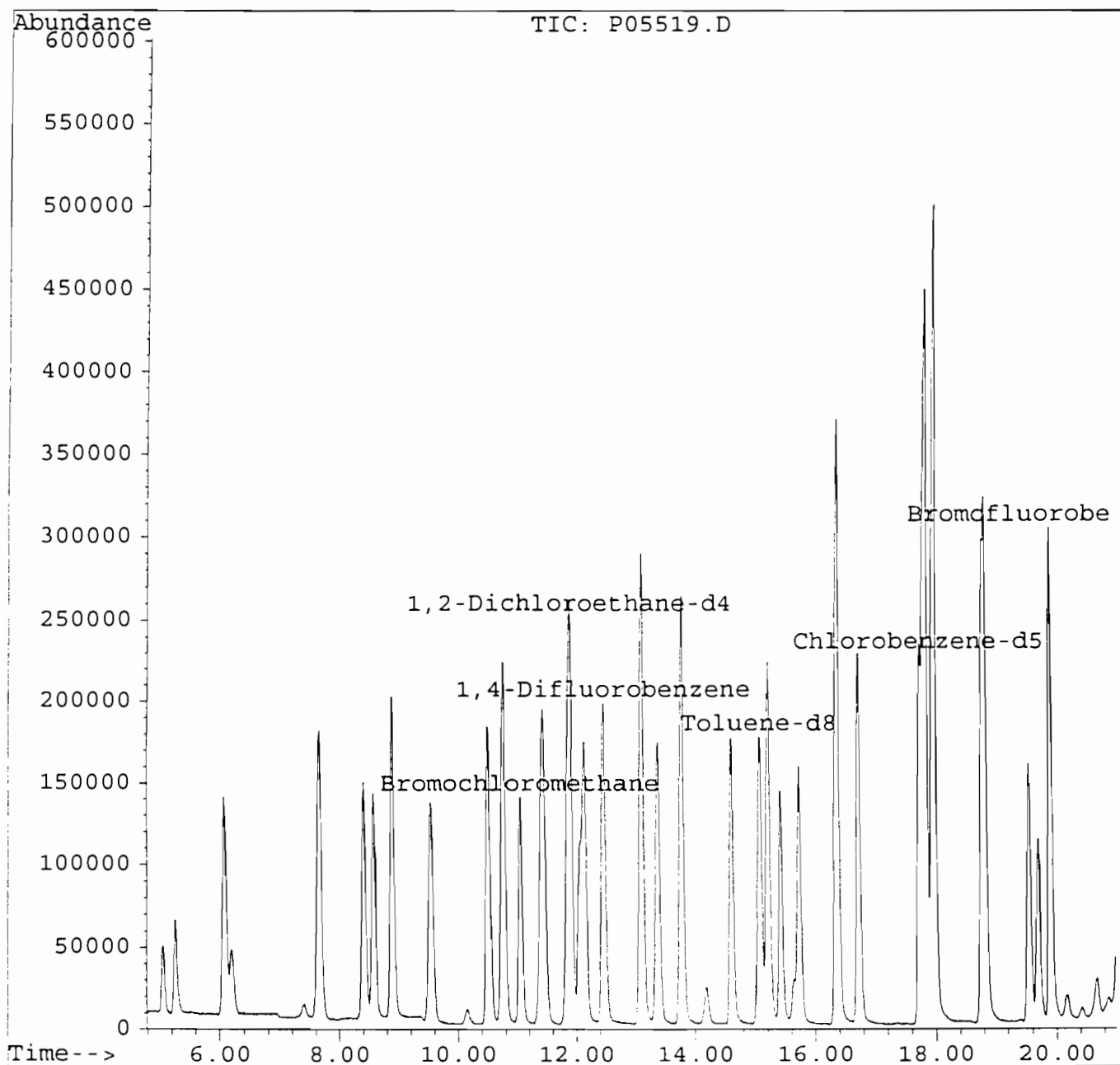
v 0216
3/90

Quantitation Report

Data File : S:\MS\HP#3\JAN97\P05519.D
Acq On : 29 Jan 97 1:49 pm
Sample : VSTD050
Misc : H5970-3 1/29/97
Quant Time: Jan 29 14:25 1997

Vial: 1
Operator: GLENN
Inst : 5970 - In
Multiplr: 1.00

Method : S:\MS\HP#3\JAN97\CLPW.M
Title : VOA CLP WATER METHOD
Last Update : Thu Jan 16 09:32:21 1997
Response via : Single Level Calibration



Quantitation Report

Data File : S:\MS\HP#3\JAN97\P05519.D
 Acq On : 29 Jan 97 13:49
 Sample : VSTD050
 Misc : H5970-3 1/29/97
 Quant Time: Jan 29 14:25 1997

Vial: 1
 Operator: GLENN
 Inst : 5970 - In
 Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\CLPW.M
 Title : VOA CLP WATER METHOD
 Last Update : Tue Jan 28 12:53:08 1997
 Response via : Continuing Cal File: C:\HPCHEM\1\DATA\P05498.D

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	11.05	128	84715	50.00	UG/L	0.10
21) 1,4-Difluorobenzene	12.47	114	357408	50.00	UG/L	0.11
33) Chlorobenzene-d5	17.73	117	281348	50.00	UG/L	0.10
System Monitoring Compounds						%Recovery
18) 1,2-Dichloroethane-d4	11.90	65	119302	46.32	UG/L	92.64%
34) Toluene-d8	15.07	98	291546	51.77	UG/L	103.54%
43) Bromofluorobenzene	19.90	95	261809	48.36	UG/L	96.71%
Target Compounds						Qvalue
2) Chloromethane	5.05	50	90107	51.91	UG/L	92
3) Vinyl Chloride	5.26	62	116373	52.30	UG/L	99
4) Bromomethane	6.08	94	196527	55.78	UG/L	99
5) Chloroethane	6.20	64	90659	54.28	UG/L	95
6) 1,1-Dichloroethene	7.66	96	178524	54.48	UG/L	# 85
7) Carbon Disulfide	8.58	76	447554	50.57	UG/L	93
8) Acetone	7.40	43	29738	45.02	UG/L	87
9) Methylene Chloride	8.41	84	152881	50.92	UG/L	94
13) trans-1,2-Dichloroethene	8.88	96	175393	51.37	UG/L	96
14) cis-,1,2-Dichloroethene	10.52	96	187262	56.71	UG/L	91
15) 1,2-Dichloroethene (total)	8.88	96	370728m	107.93	UG/L	86
16) 1,1-Dichloroethane	9.54	63	340832	55.44	UG/L	94
17) Chloroform	10.77	83	432487	53.04	UG/L	97
19) 1,2-Dichloroethane	12.06	62	188747	47.00	UG/L	93
20) 2-Butanone	10.15	43	31421	48.73	UG/L	97
22) 1,1,1-Trichloroethane	11.43	97	375029	46.93	UG/L	95
23) Carbon Tetrachloride	11.88	117	366760	44.98	UG/L	98
24) Trichloroethene	13.10	130	224922	50.77	UG/L	99
25) Benzene	12.14	78	346573	49.35	UG/L	99
26) 1,2-Dichloropropane	13.38	63	153263	49.39	UG/L	92
27) Bromodichloromethane	13.78	83	408285	45.13	UG/L	97
28) cis-1,3-Dichloropropene	14.61	75	218914	47.86	UG/L	96
29) trans-1,3-Dichloropropene	15.42	75	169323	45.73	UG/L	95
30) 1,1,2-Trichloroethane	15.74	97	113253	45.86	UG/L	91
31) Dibromochloromethane	16.72	129	275703	44.75	UG/L	99
32) Bromoform	19.55	173	167527	42.97	UG/L	98
35) 4-Methyl-2-Pentanone	14.18	43	45561	43.17	UG/L	95
36) Toluene	15.22	91	378537	51.95	UG/L	97
37) Tetrachloroethene	16.36	164	220272	51.56	UG/L	98
38) 2-Hexanone	15.64	43	44983	41.39	UG/L	99
39) Chlorobenzene	17.80	112	331884	50.88	UG/L	91
40) Ethylbenzene	17.84	106	134809	50.95	UG/L	# 86
41) Xylene (total)	18.78	106	157458	50.48	UG/L	# 81
42) Styrene	18.83	104	253977	50.33	UG/L	93

(#) = qualifier out of range (m) = manual integration
 P05519.D CLPW.M Tue Feb 11 17:57:28 1997 JON

V 0218

Quantitation Report

Data File : S:\MS\HP#3\JAN97\P05519.D
 Acq On : 29 Jan 97 13:49
 Sample : VSTD050
 Misc : H5970-3 1/29/97
 Quant Time: Jan 29 14:25 1997

Vial: 1
 Operator: GLENN
 Inst : 5970 - In
 Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\CLPW.M
 Title : VOA CLP WATER METHOD
 Last Update : Tue Jan 28 12:53:08 1997
 Response via : Continuing Cal File: C:\HPCHEM\1\DATA\P05498.D

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
44) m/p-Xylene	17.97	106	324124	100.41	UG/L #	85
45) 1,1,2,2-Tetrachloroethane	19.70	83	150391	43.54	UG/L	99

7A
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: H2M LABS INC. Contract: _____
 Lab Code: _____ Case No.: RA096 SAS No.: _____ SDG No.: NDEC012
 Instrument ID: 5970 Calibration Date: 01/30/97 Time: 12:11
 Lab File ID: P05537.D Init. Calib. Date(s): 12/31/96 12/31/96
 Heated Purge: (Y/N) N Init. Calib. Times: 11:19 16:42
 GC Column: RTX502.2 ID: 0.53 (mm)

COMPOUND	RRF	RRF50	MIN RRF	% D	MAX % D
Chloromethane	1.272	0.928		27.1	
Bromomethane	2.096	2.068	0.100	1.3	25.0
Vinyl Chloride	1.391	1.257	0.100	9.6	25.0
Chloroethane	0.976	0.967		0.9	
Methylene Chloride	1.641	1.812		-10.4	
Acetone	0.342	0.375		-9.5	
Carbon Disulfide	4.977	5.221		-4.9	
1,1-Dichloroethene	1.739	1.946	0.100	-11.9	25.0
1,1-Dichloroethane	3.308	3.688	0.200	-11.5	25.0
1,2-Dichloroethene (total)	1.859	2.076		-11.7	
Chloroform	4.054	5.073	0.200	-25.1	25.0
1,2-Dichloroethane	2.003	2.432	0.100	-21.4	25.0
2-Butanone	0.367	0.363		1.1	
1,1,1-Trichloroethane	0.946	1.183	0.100	-25.0	25.0
Carbon Tetrachloride	0.912	1.207	0.100	-32.3	25.0
Bromodichloromethane	1.100	1.228	0.200	-11.6	25.0
1,2-Dichloropropane	0.443	0.424		4.4	
cis-1,3-Dichloropropene	0.629	0.621	0.200	1.4	25.0
Trichloroethene	0.606	0.623	0.300	-2.7	25.0
Benzene	0.963	0.957	0.500	0.6	25.0
Dibromochloromethane	0.777	0.842	0.100	-8.4	25.0
trans-1,3-Dichloropropene	0.492	0.511	0.100	-3.9	25.0
1,1,2-Trichloroethane	0.353	0.339	0.100	4.0	25.0
Bromoform	0.503	0.532	0.100	-5.8	25.0
4-Methyl-2-Pentanone	0.255	0.177		30.6	
2-Hexanone	0.212	0.165		22.0	
Tetrachloroethene	0.725	0.750	0.200	-3.5	25.0
1,1,2,2-Tetrachloroethane	0.633	0.576	0.500	8.9	25.0
Toluene	1.359	1.260	0.400	7.2	25.0
Chlorobenzene	1.175	1.131	0.500	3.8	25.0
Ethylbenzene	0.474	0.458	0.100	3.4	25.0
Styrene	0.958	0.871	0.300	9.1	25.0
Xylene (total)	0.580	0.548	0.300	5.6	25.0
1,2-Dichloroethane-d4	1.349	1.600		-18.6	
Toluene-d8	1.109	1.011		8.8	
Bromofluorobenzene	0.892	0.985	0.200	-10.4	25.0

All other compounds must meet a minimum RRF of 0.010.

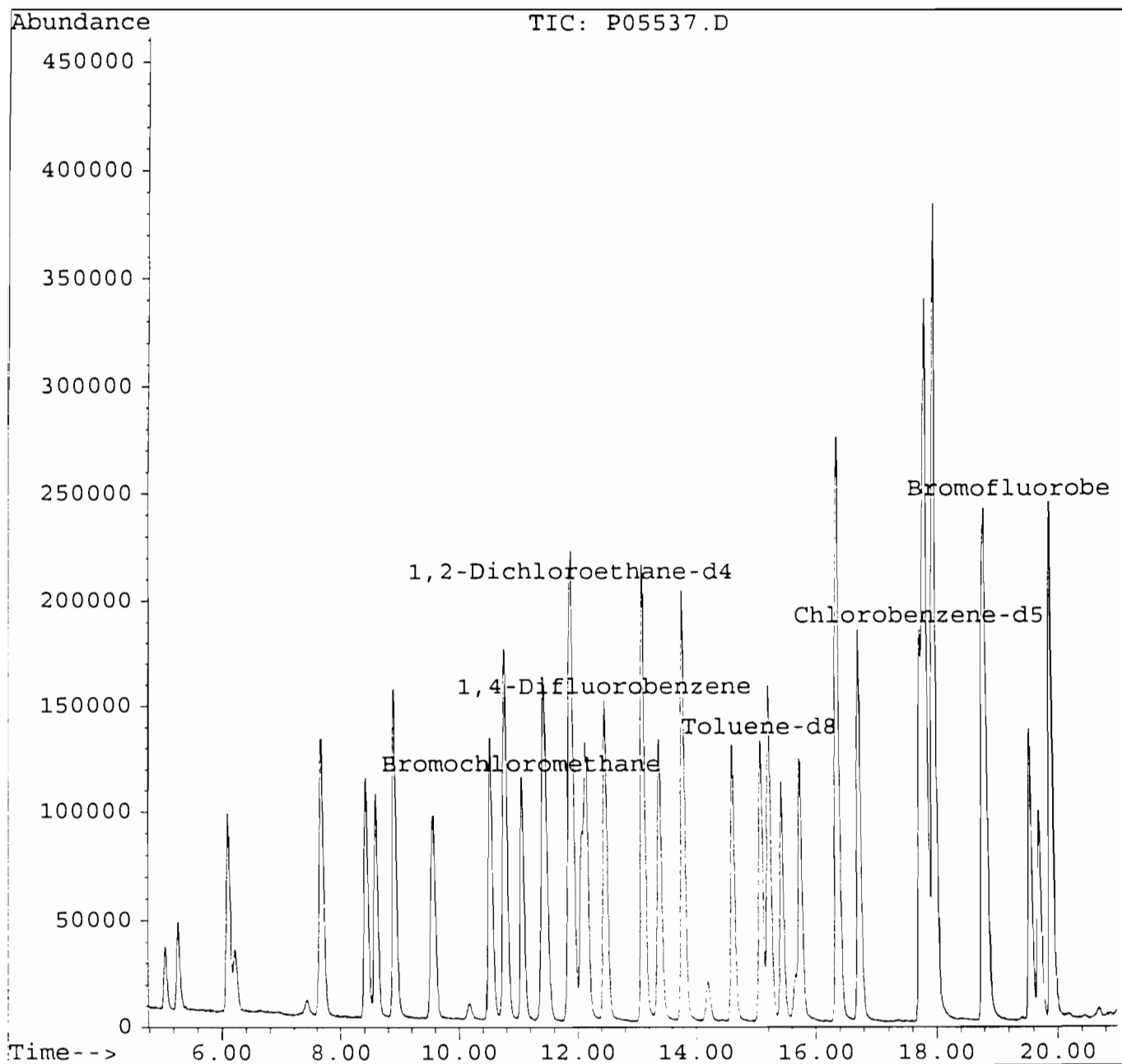
V C220

Quantitation Report

Data File : S:\MS\HP#3\JAN97\P05537.D
Acq On : 30 Jan 97 12:11 pm
Sample : VSTD050
Misc : H5970-3 1/30/97
Quant Time: Jan 30 12:36 1997

Vial: 1
Operator: GLENN
Inst : 5970 - In
Multiplr: 1.00

Method : S:\MS\HP#3\JAN97\CLPW.M
Title : VOA CLP WATER METHOD
Last Update : Thu Jan 16 09:32:21 1997
Response via : Single Level Calibration



Quantitation Report

Data File : S:\MS\HP#3\JAN97\P05537.D
 Acq On : 30 Jan 97 12:11
 Sample : VSTD050
 Misc : H5970-3 1/30/97
 Quant Time: Jan 30 12:36 1997

Vial: 1
 Operator: GLENN
 Inst : 5970 - In
 Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\CLPW.M
 Title : VOA CLP WATER METHOD
 Last Update : Wed Jan 29 14:26:15 1997
 Response via : Continuing Cal File: C:\HPCHEM\1\DATA\P05519.D

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	11.08	128	65762	50.00	UG/L	0.02
21) 1,4-Difluorobenzene	12.49	114	260179	50.00	UG/L	0.02
33) Chlorobenzene-d5	17.76	117	211874	50.00	UG/L	0.04
System Monitoring Compounds						%Recovery
18) 1,2-Dichloroethane-d4	11.93	65	105208	56.80	UG/L	113.60%
34) Toluene-d8	15.09	98	214285	48.80	UG/L	97.60%
43) Bromofluorobenzene	19.92	95	208776	52.95	UG/L	105.89%
Target Compounds						Qvalue
2) Chloromethane	5.07	50	60996	43.60	UG/L	97
3) Vinyl Chloride	5.27	62	82635	45.74	UG/L	99
4) Bromomethane	6.11	94	135995	44.57	UG/L	96
5) Chloroethane	6.23	64	63590	45.18	UG/L	98
6) 1,1-Dichloroethene	7.69	96	127973	46.17	UG/L	# 82
7) Carbon Disulfide	8.61	76	343310	49.41	UG/L	95
8) Acetone	7.43	43	24631	53.35	UG/L	85
9) Methylene Chloride	8.45	84	119178	50.21	UG/L	96
13) trans-1,2-Dichloroethene	8.93	96	134918	49.55	UG/L	95
14) cis-,1,2-Dichloroethene	10.55	96	130327	44.83	UG/L	89
15) 1,2-Dichloroethene (total)	8.93	96	272997m	94.86	UG/L	85
16) 1,1-Dichloroethane	9.59	63	242539	45.83	UG/L	98
17) Chloroform	10.79	83	333618	49.69	UG/L	95
19) 1,2-Dichloroethane	12.08	62	159932	54.58	UG/L	92
20) 2-Butanone	10.18	43	23858	48.91	UG/L	97
22) 1,1,1-Trichloroethane	11.46	97	307655	56.35	UG/L	96
23) Carbon Tetrachloride	11.90	117	313987	58.80	UG/L	97
24) Trichloroethene	13.12	130	162063	49.49	UG/L	94
25) Benzene	12.15	78	249027	49.35	UG/L	97
26) 1,2-Dichloropropane	13.38	63	110296	49.43	UG/L	91
27) Bromodichloromethane	13.79	83	319389	53.73	UG/L	97
28) cis-1,3-Dichloropropene	14.64	75	161435	50.65	UG/L	94
29) trans-1,3-Dichloropropene	15.45	75	133045	53.97	UG/L	97
30) 1,1,2-Trichloroethane	15.77	97	88069	53.41	UG/L	98
31) Dibromochloromethane	16.74	129	219141	54.59	UG/L	95
32) Bromoform	19.57	173	138498	56.78	UG/L	98
35) 4-Methyl-2-Pentanone	14.21	43	37433	54.55	UG/L	98
36) Toluene	15.23	91	267047	46.84	UG/L	99
37) Tetrachloroethene	16.39	164	158931	47.91	UG/L	99
38) 2-Hexanone	15.66	43	35035	51.71	UG/L	95
39) Chlorobenzene	17.83	112	239587	47.93	UG/L	88
40) Ethylbenzene	17.87	106	97067	47.81	UG/L	# 88
41) Xylene (total)	18.80	106	116041	48.93	UG/L	# 84
42) Styrene	18.85	104	184438	48.22	UG/L	91

(#) = qualifier out of range (m) = manual integration
 P05537.D CLPW.M Tue Feb 11 18:11:20 1997 JON

V 6222
 Page 1

Quantitation Report

Data File : S:\MS\HP#3\JAN97\P05537.D
 Acq On : 30 Jan 97 12:11
 Sample : VSTD050
 Misc : H5970-3 1/30/97
 Quant Time: Jan 30 12:36 1997

Vial: 1
 Operator: GLENN
 Inst : 5970 - In
 Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\CLPW.M
 Title : VOA CLP WATER METHOD
 Last Update : Wed Jan 29 14:26:15 1997
 Response via : Continuing Cal File: C:\HPCHEM\1\DATA\P05519.D

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
44) m/p-Xylene	17.99	106	230866	94.58	UG/L #	82
45) 1,1,2,2-Tetrachloroethane	19.72	83	122055	53.89	UG/L	97

H2M LABS, INC.

IV. RAW QC DATA PACKAGE FOR VOLATILE ORGANICS

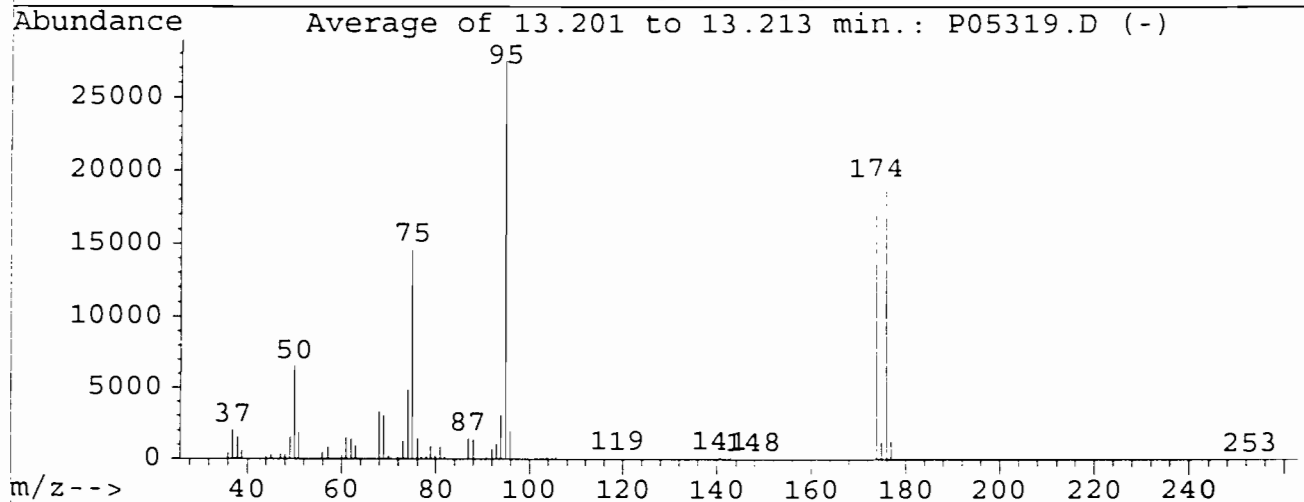
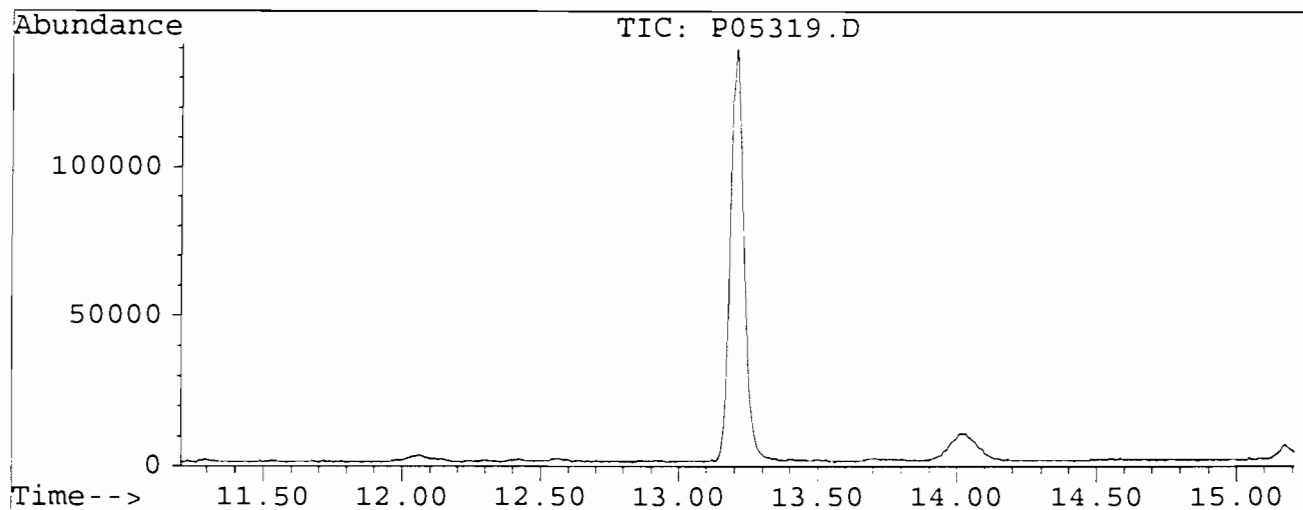
- A. TUNING**
- B. BLANK**
- C. MATRIX SPIKE BLANK**
- D. SPIKE AND SPIKE DUPLICATE**
- E. COPY OF CALCULATIONS**

BFB

Data File : S:\MS\HP#3\DEC96\P05319.D
Acq On : 31 Dec 96 9:05 am
Sample : 50 NG BFB
Misc : H5970-3 12/31/96

Vial: 1
Operator: GLENN
Inst : 5970 - In
Multiplr: 1.00

Method : S:\MS\HP#3\JAN97\CLPW.M
Title : VOA CLP WATER METHOD



Scans Used: 1604 1605 1606 Bkg: 1587

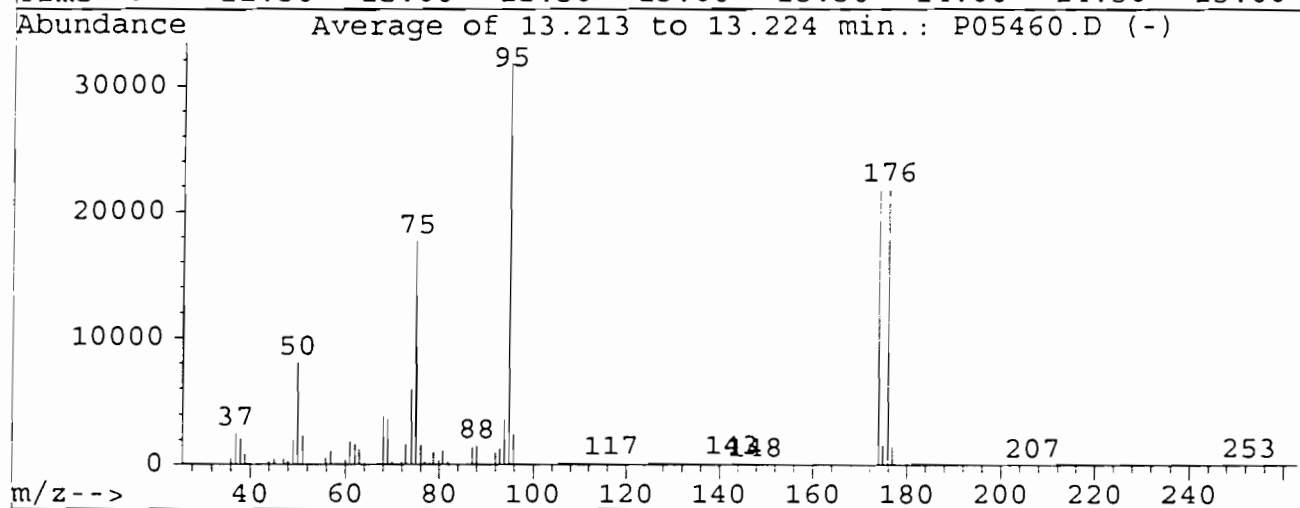
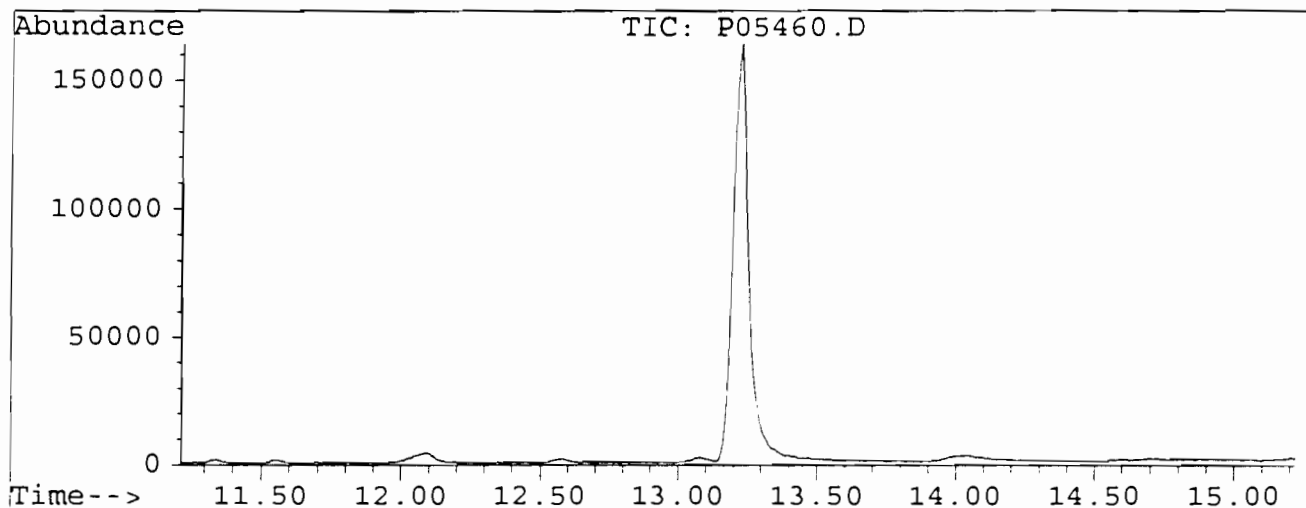
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	23.9	6589	PASS
75	95	30	60	52.9	14581	PASS
95	95	100	100	100.0	27571	PASS
96	95	5	9	7.1	1947	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	69.2	19077	PASS
175	174	5	9	8.0	1529	PASS
176	174	95	101	98.2	18739	PASS
177	176	5	9	6.9	1295	PASS

BFB

Data File : S:\MS\HP#3\JAN97\P05460.D
 Acq On : 24 Jan 97 9:11 am
 Sample : 50 NG BFB
 Misc : H5970-3 1/24/97

Vial: 1
 Operator: GLENN
 Inst : 5970 - In
 Multiplr: 1.00

Method : S:\MS\HP#3\JAN97\CLPS.M
 Title : VOA CLP WATER METHOD



Scans Used: 1606 1607 1608 Bkg: 1589

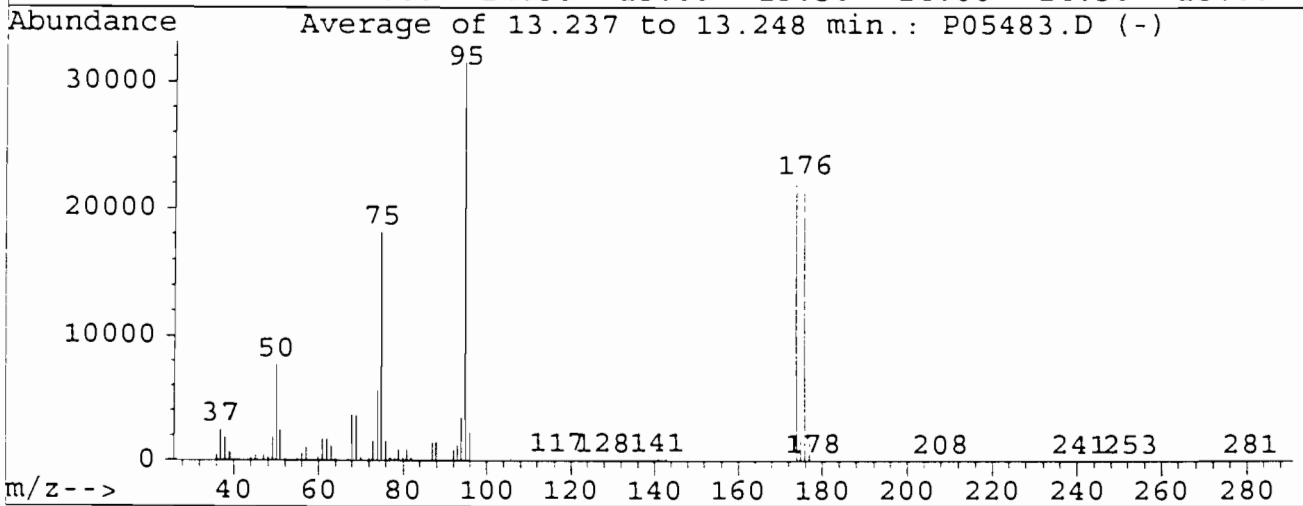
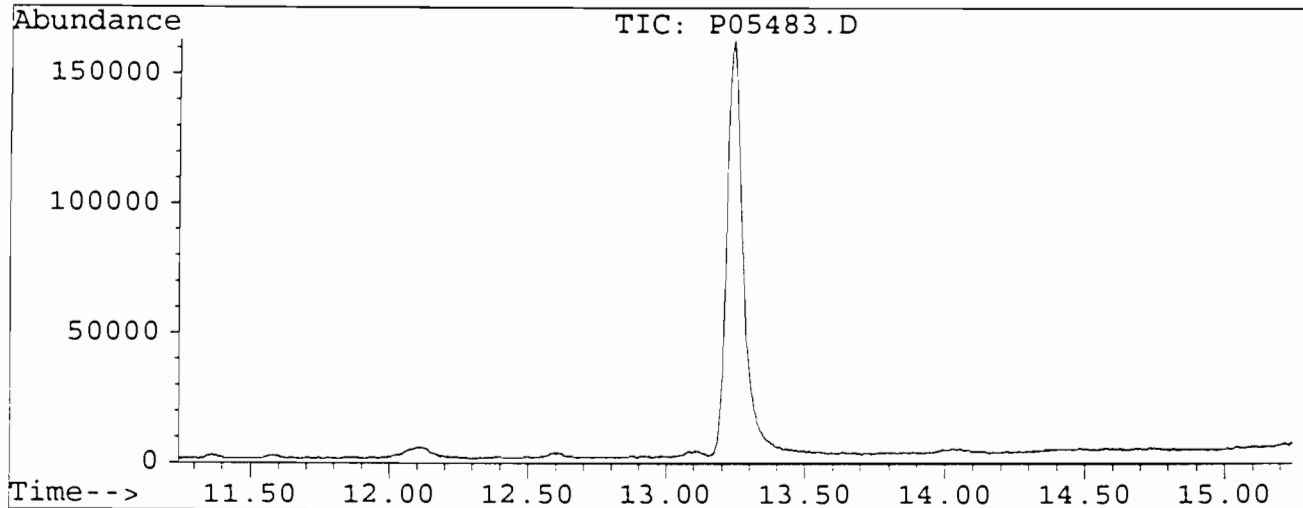
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	25.2	8032	PASS
75	95	30	60	55.6	17680	PASS
95	95	100	100	100.0	31819	PASS
96	95	5	9	7.6	2427	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	68.3	21723	PASS
175	174	5	9	7.4	1603	PASS
176	174	95	101	100.3	21797	PASS
177	176	5	9	6.8	1491	PASS

BFB

Data File : S:\MS\HP#3\JAN97\P05483.D
 Acq On : 27 Jan 97 12:46 pm
 Sample : 50 NG BFB
 Misc : H5970-3 1/27/97

Vial: 1
 Operator: GLENN
 Inst : 5970 - In
 Multiplr: 1.00

Method : S:\MS\HP#3\JAN97\CLPS.M
 Title : VOA CLP WATER METHOD



Scans Used: 1610 1611 1612 Bkg: 1595

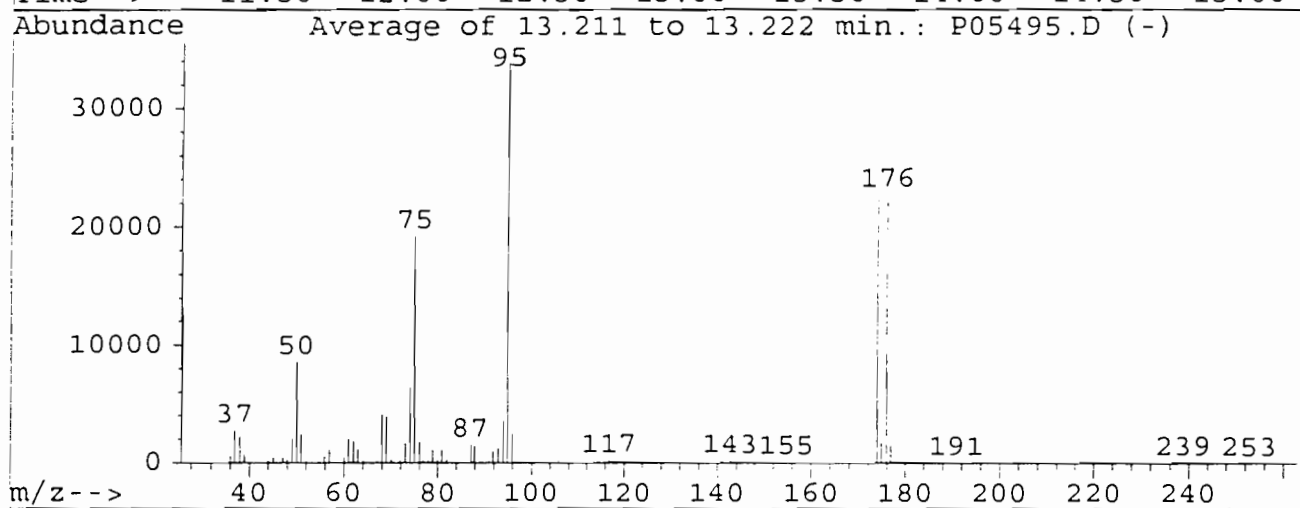
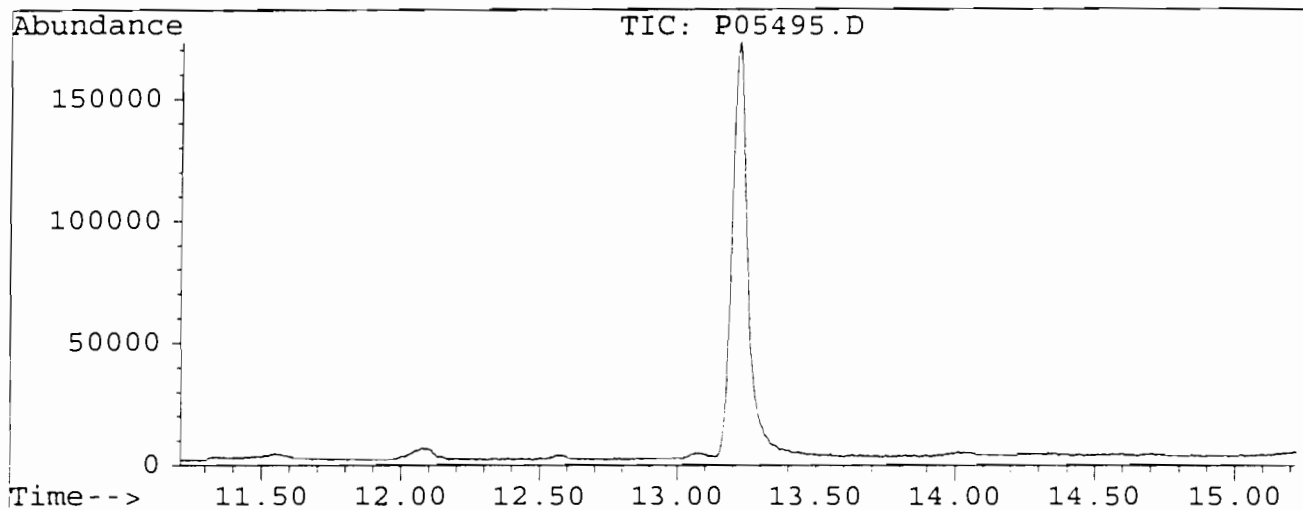
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	24.4	7735	PASS
75	95	30	60	57.2	18112	PASS
95	95	100	100	100.0	31675	PASS
96	95	5	9	7.2	2289	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	69.7	22088	PASS
175	174	5	9	7.3	1623	PASS
176	174	95	101	100.4	22176	PASS
177	176	5	9	7.2	1591	PASS

BFB

Data File : S:\MS\HP#3\JAN97\P05495.D
Acq On : 28 Jan 97 9:31 am
Sample : 50 NG BFB
Misc : H5970-3 1/28/97

Vial: 1
Operator: GLENN
Inst : 5970 - In
Multiplr: 1.00

Method : S:\MS\HP#3\JAN97\CLPS.M
Title : VOA CLP WATER METHOD



Scans Used: 1605 1606 1607 Bkg: 1585

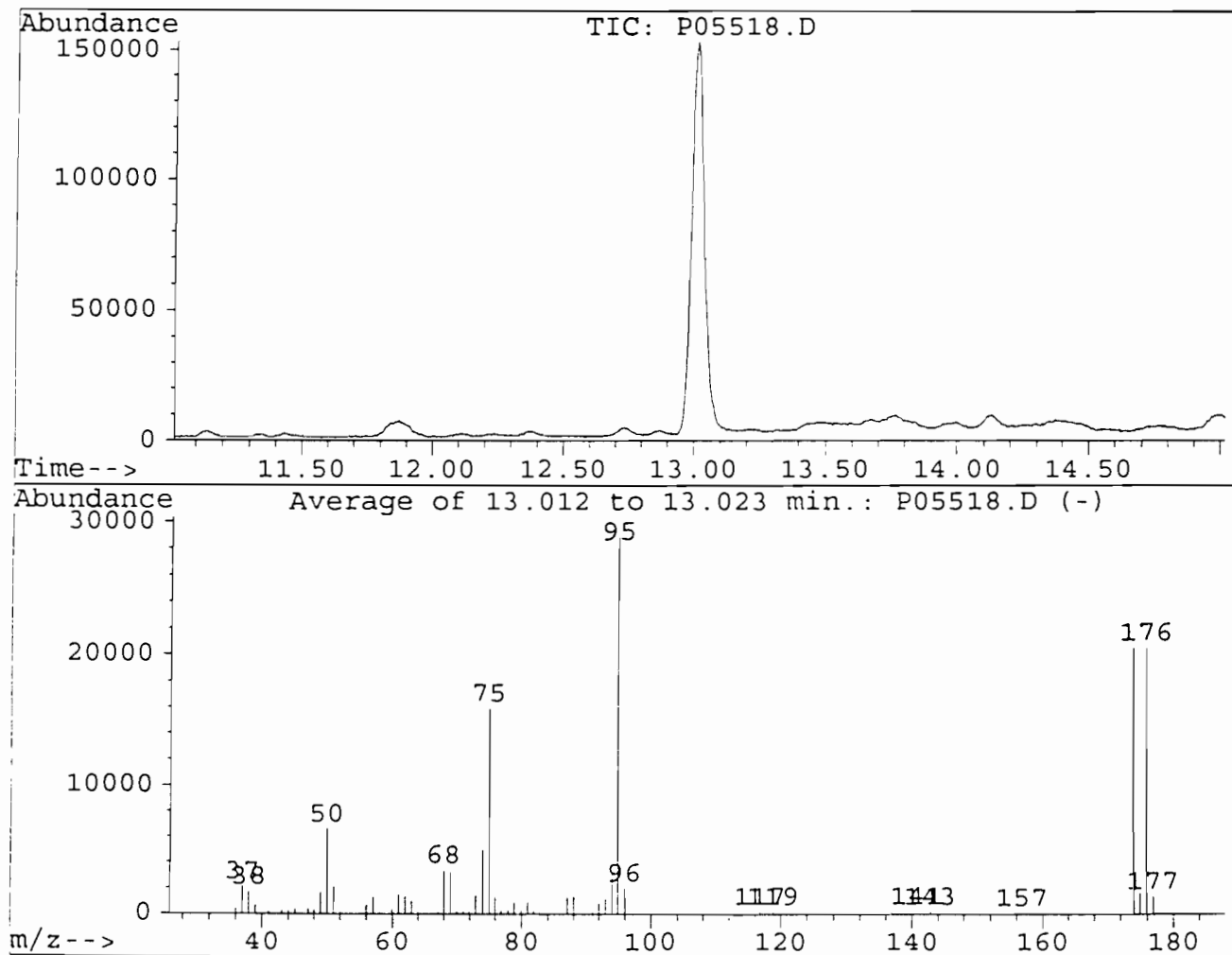
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	25.2	8561	PASS
75	95	30	60	56.7	19221	PASS
95	95	100	100	100.0	33917	PASS
96	95	5	9	7.4	2502	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	66.6	22587	PASS
175	174	5	9	7.5	1685	PASS
176	174	95	101	100.6	22725	PASS
177	176	5	9	6.8	1540	PASS

BFB

Data File : S:\MS\HP#3\JAN97\P05518.D
Acq On : 29 Jan 97 1:06 pm
Sample : 50 NG BFB
Misc : H5970-3 1/29/97

Vial: 3
Operator: GLENN
Inst : 5970 - In
Multiplr: 1.00

Method : S:\MS\HP#3\JAN97\CLPW.M
Title : VOA CLP WATER METHOD



Scans Used: 1571 1572 1573 Bkg: 1554

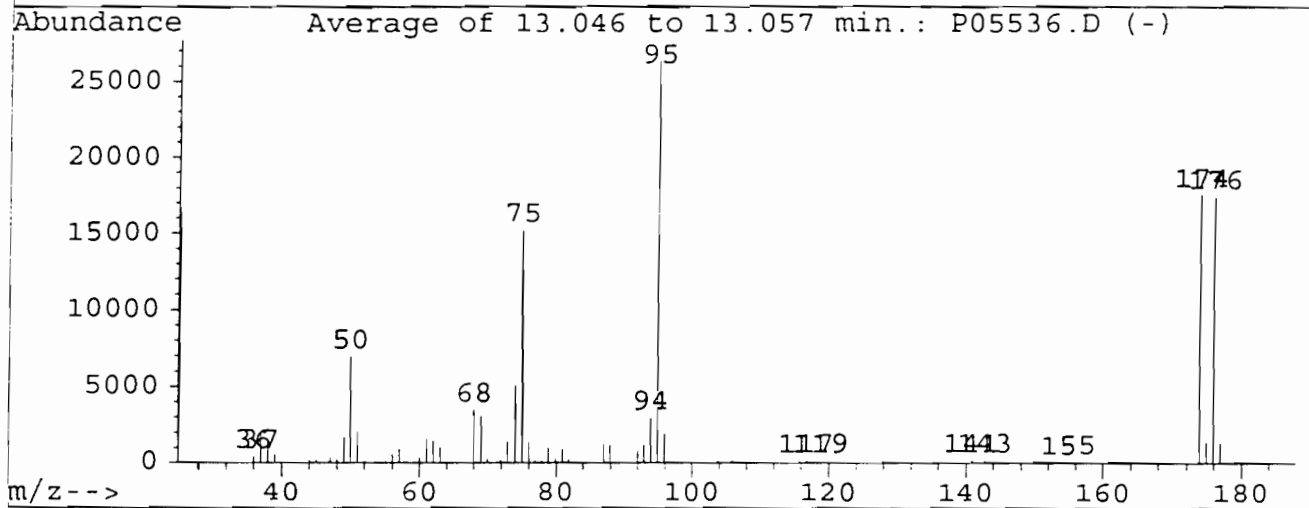
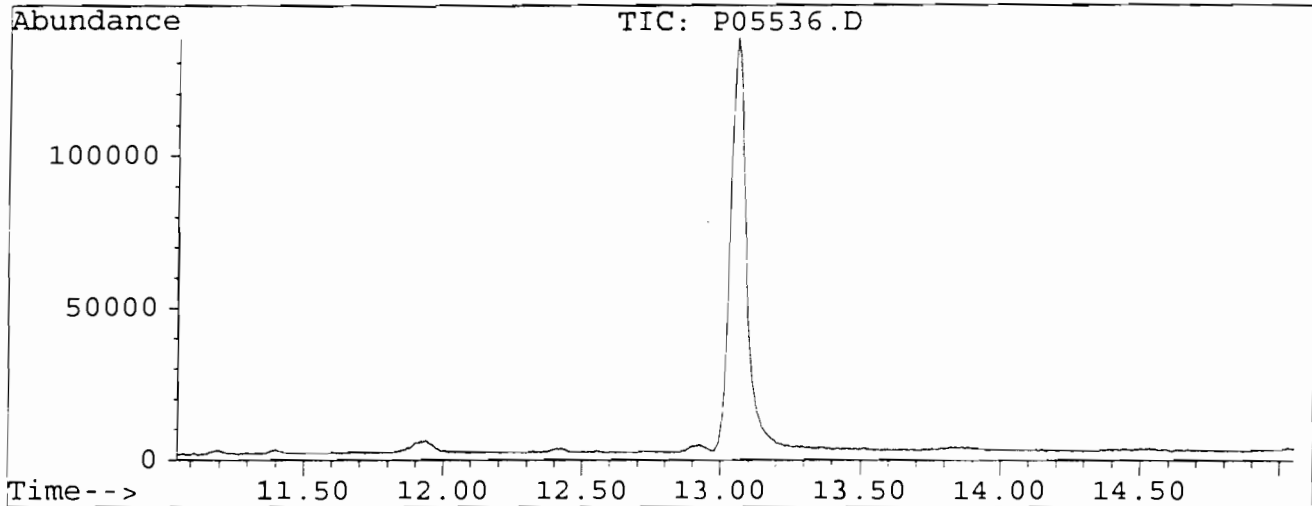
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	22.8	6587	PASS
75	95	30	60	54.8	15847	PASS
95	95	100	100	100.0	28916	PASS
96	95	5	9	6.9	1986	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	70.6	20429	PASS
175	174	5	9	8.0	1625	PASS
176	174	95	101	100.2	20461	PASS
177	176	5	9	6.6	1356	PASS

BFB

Data File : S:\MS\HP#3\JAN97\P05536.D
 Acq On : 30 Jan 97 8:57 am
 Sample : 50 NG BFB
 Misc : H5970-3 1/30/97

Vial: 1
 Operator: GLENN
 Inst : 5970 - In
 Multiplr: 1.00

Method : S:\MS\HP#3\JAN97\CLPW.M
 Title : VOA CLP WATER METHOD



Scans Used: 1577 1578 1579 Bkg: 1562

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	26.3	6949	PASS
75	95	30	60	57.6	15207	PASS
95	95	100	100	100.0	26405	PASS
96	95	5	9	7.2	1902	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	66.5	17555	PASS
175	174	5	9	7.8	1377	PASS
176	174	95	101	99.3	17427	PASS
177	176	5	9	7.4	1295	PASS

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLK24

Lab Name: H2M LABS INC. Contract: _____

Lab Code: _____ Case No.: RA096 SAS No.: _____ SDG No.: NDEC012

Matrix: (soil/water) SOIL Lab Sample ID: VBLK24

Sample wt/vol: 5.0 (g/ml) G Lab File ID: P05462.D

Level: (low/med) LOW Date Received: 01/23/97 *grw: 1/24/97*

% Moisture: not dec. 0 Date Analyzed: 01/24/97 *2/23/97*

GC Column: RTX502 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

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

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBK24

Lab Name: H2M LABS INC. Contract: _____
Lab Code: _____ Case No.: RA096 SAS No.: _____ SDG No.: NDEC012
Matrix: (soil/water) SOIL Lab Sample ID: VBK24
Sample wt/vol: 5.0 (g/ml) G Lab File ID: P05462.D
Level: (low/med) LOW Date Received: 01/23/97
% Moisture: not dec. 0 Date Analyzed: 01/24/97
GC Column: RTX502 ID: 0.53 (mm) Dilution Factor: 1.0
Soil Extract Volume 1 (uL) Soil Aliquot Volume: 1 (uL)

*final
2/20/97*

CONCENTRATION UNITS:

Number TICs found: 0 (ug/L or ug/Kg) UG/KG

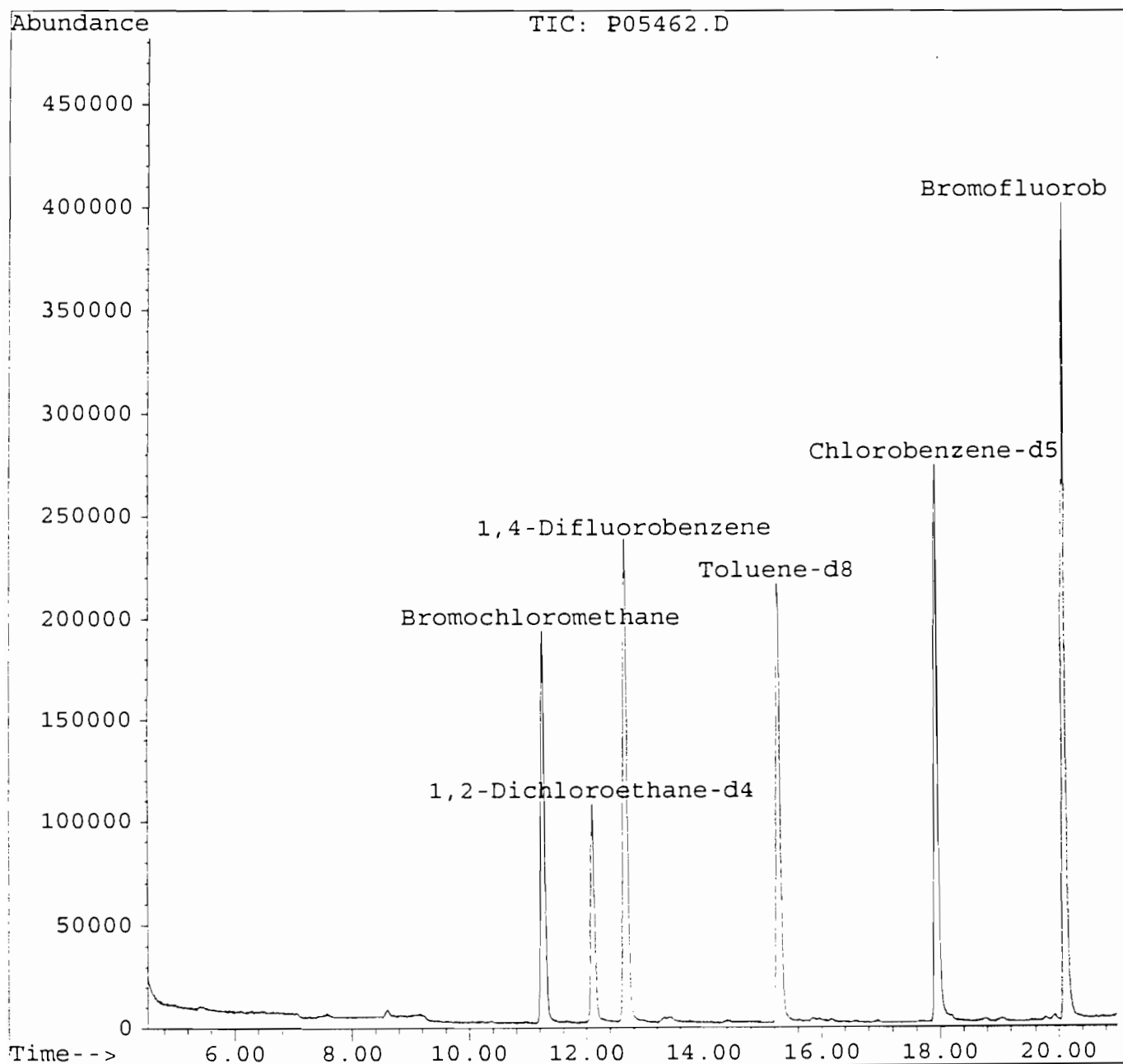
CAS NO.	COMPOUND	RT	EST. CONC.	Q

Quantitation Report

Data File : S:\MS\HP#3\JAN97\P05462.D
Acq On : 24 Jan 97 10:59 am
Sample : VBLK24
Misc : H5970-3 1/24/97 5.0G
Quant Time: Feb 11 16:21 1997

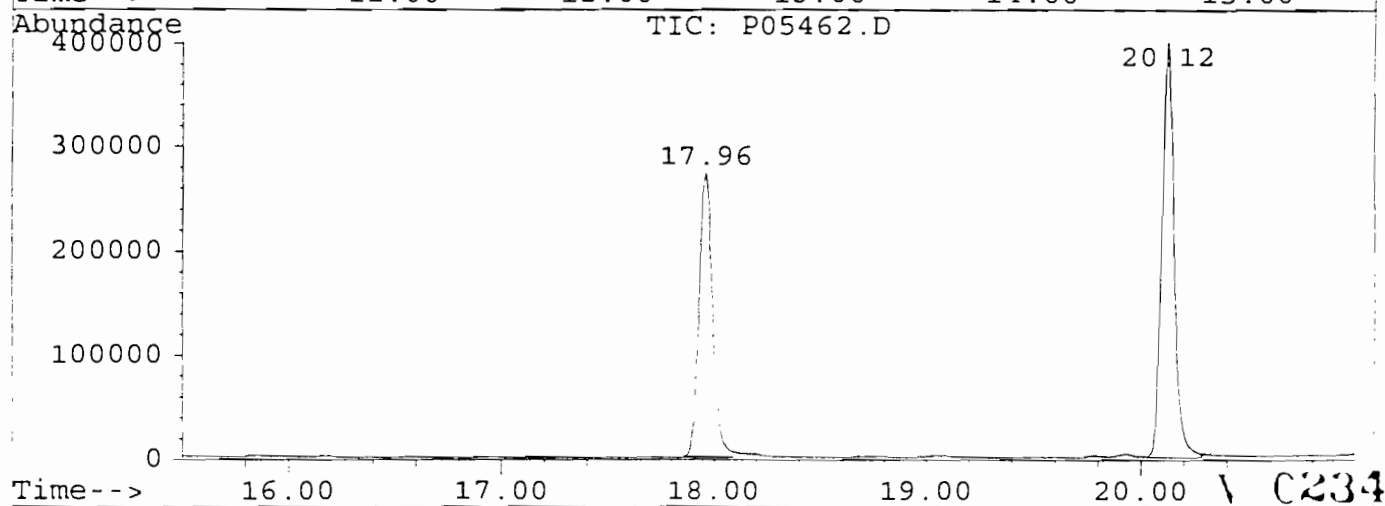
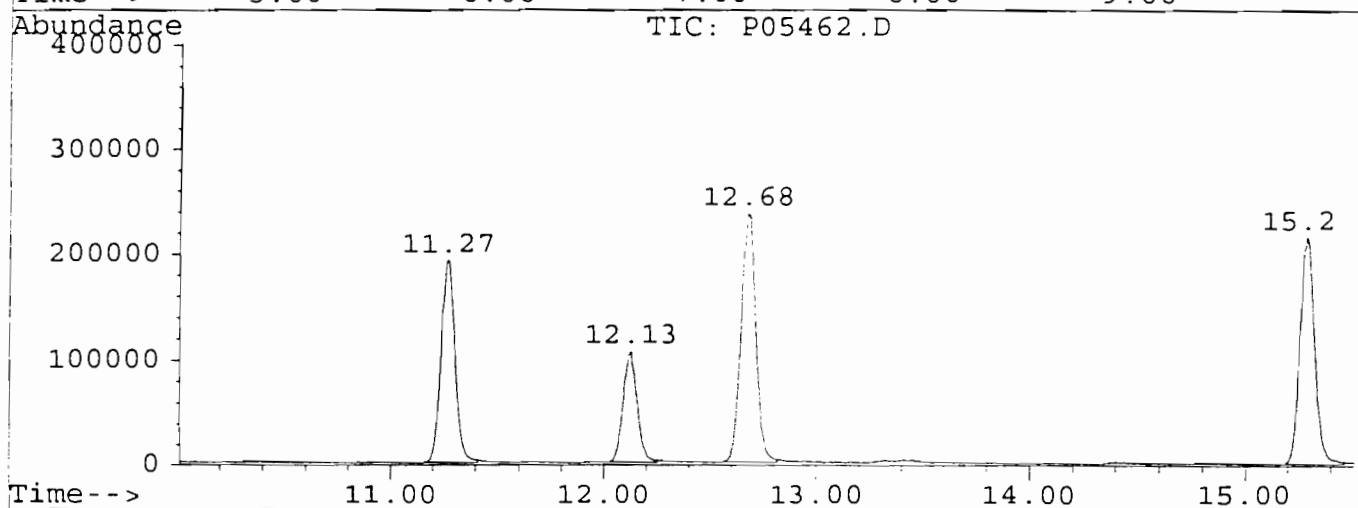
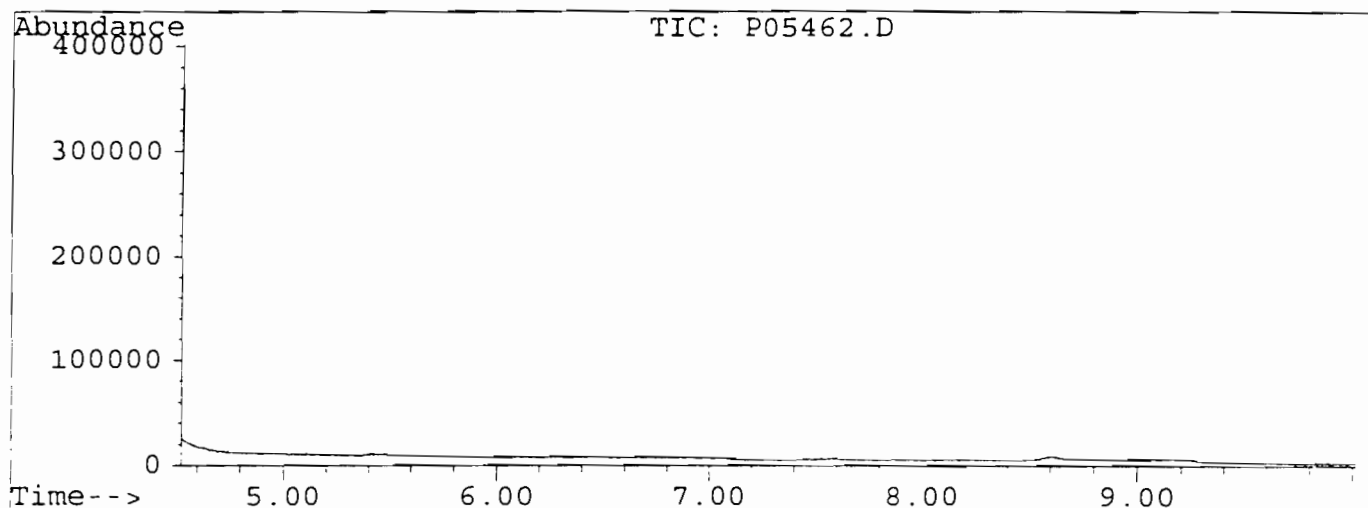
Vial: 2
Operator: GLENN
Inst : 5970 - In
Multiplr: 1.00

Method : S:\MS\HP#3\JAN97\CLPS.M
Title : VOA CLP WATER METHOD
Last Update : Wed Jan 15 13:53:47 1997
Response via : Single Level Calibration



V 0233

File : S:\MS\HP#3\JAN97\P05462.D
Operator : GLENN
Acquired : 24 Jan 97 10:59 using AcqMethod CLPS
Instrument : 5970 - In
Sample Name: VBLK24
Misc Info : H5970-3 1/24/97 5.0G
Vial Number: 2



Quantitation Report

Data File : S:\MS\HP#3\JAN97\P05462.D
 Acq On : 24 Jan 97 10:59
 Sample : VBLK24
 Misc : H5970-3 1/24/97 5.0G
 Quant Time: Feb 11 16:21 1997

Vial: 2
 Operator: GLENN
 Inst : 5970 - In
 Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\CLPS.M
 Title : VOA CLP WATER METHOD
 Last Update : Fri Jan 24 10:47:18 1997
 Response via : Continuing Cal File: C:\HPCHEM\1\DATA\P05461.D

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	11.27	128	115408	50.00	UG/L	0.00
21) 1,4-Difluorobenzene	12.69	114	419490	50.00	UG/L	0.00
33) Chlorobenzene-d5	17.96	117	342222	50.00	UG/L	0.00
System Monitoring Compounds						%Recovery
18) 1,2-Dichloroethane-d4	12.13	65	181926	52.31	UG/L	104.62%
34) Toluene-d8	15.29	98	347827	49.02	UG/L	98.03%
43) Bromofluorobenzene	20.12	95	321428	49.59	UG/L	99.18%

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration

Library Search Compound Report

Data File : S:\MS\HP#3\JAN97\P05462.D
Acq On : 24 Jan 97 10:59
Sample : VBLK24
Misc : H5970-3 1/24/97 5.0G

Vial: 2
Operator: GLENN
Inst : 5970 - In
Multiplr: 1.00

Method : S:\MS\HP#3\JAN97\CLPS.M
Title : VOA CLP WATER METHOD
Library : NBS75K.L

No Library Search Compounds Detected

V 0236

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLK27

Lab Name: H2M LABS INC. Contract: _____
 Lab Code: _____ Case No.: RA096 SAS No.: _____ SDG No.: NDEC012
 Matrix: (soil/water) SOIL Lab Sample ID: VBLK27
 Sample wt/vol: 5.0 (g/ml) G Lab File ID: P05485.D
 Level: (low/med) LOW Date Received: 01/23/97
 % Moisture: not dec. 0 Date Analyzed: 01/27/97
 GC Column: RTX502 ID: 0.53 (mm) Dilution Factor: 1.0
 Soil Extract Volume _____ (uL) Soil Aliquot Volume: _____ (uL)

*9 mi
12 M
2/25/97*

CONCENTRATION UNITS:

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

V 0237

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBK27

Lab Name: H2M LABS INC. Contract: _____
Lab Code: _____ Case No.: RA096 SAS No.: _____ SDG No.: NDEC012
Matrix: (soil/water) SOIL Lab Sample ID: VBK27
Sample wt/vol: 5.0 (g/ml) G Lab File ID: P05485.D
Level: (low/med) LOW Date Received: 01/23/97
% Moisture: not dec. 0 Date Analyzed: 01/27/97
GC Column: RTX502 ID: 0.53 (mm) Dilution Factor: 1.0
Soil Extract Volume 1 (uL) Soil Aliquot Volume: 1 (uL)

CONCENTRATION UNITS:

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

Number TICs found: 0

CAS NO.	COMPOUND	RT	EST. CONC.	Q

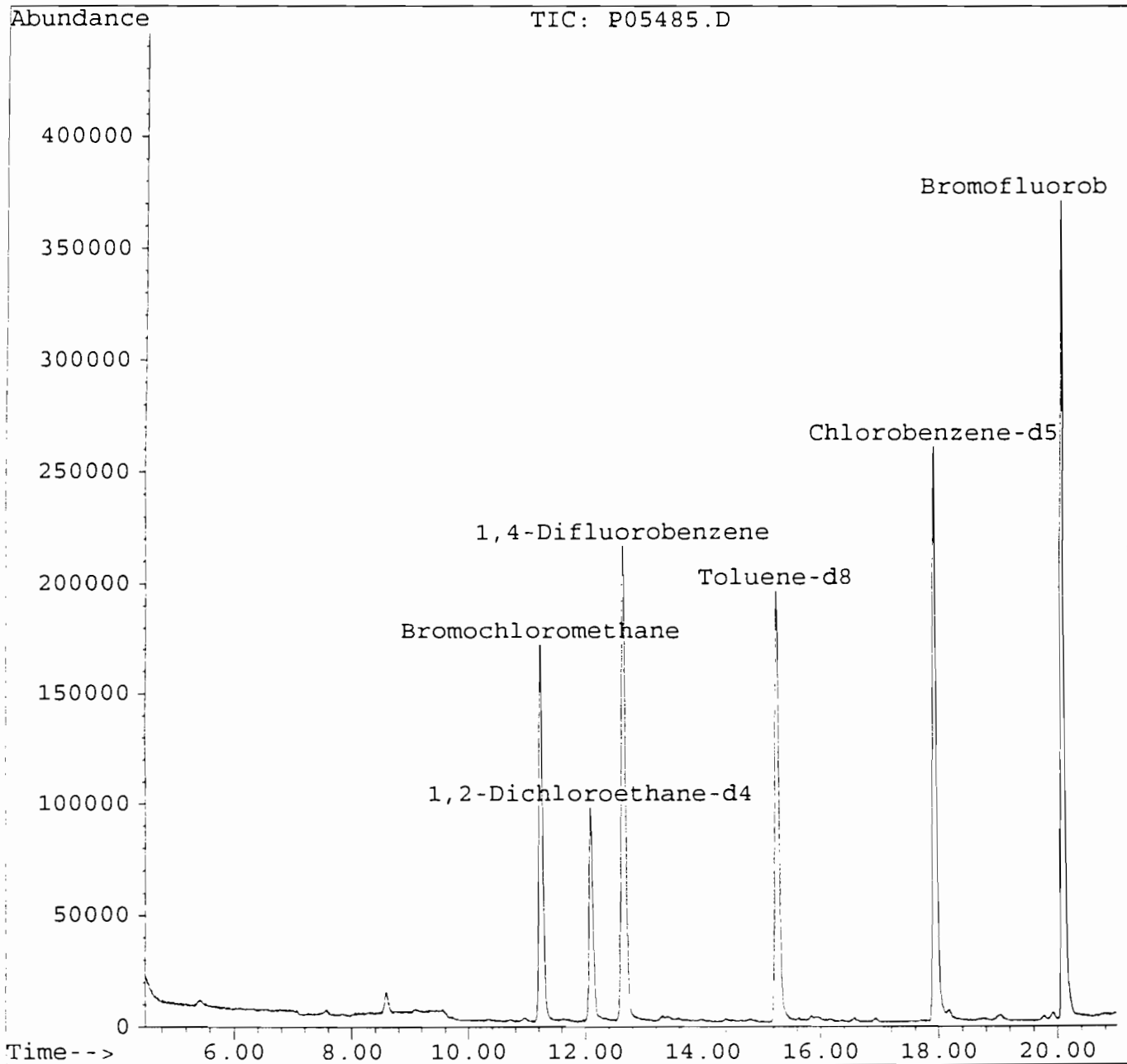
*gms
2/22/97*

Quantitation Report

Data File : S:\MS\HP#3\JAN97\P05485.D
Acq On : 27 Jan 97 4:00 pm
Sample : VBLK27
Misc : H5970-3 1/27/97 5.0G
Quant Time: Feb 11 17:32 1997

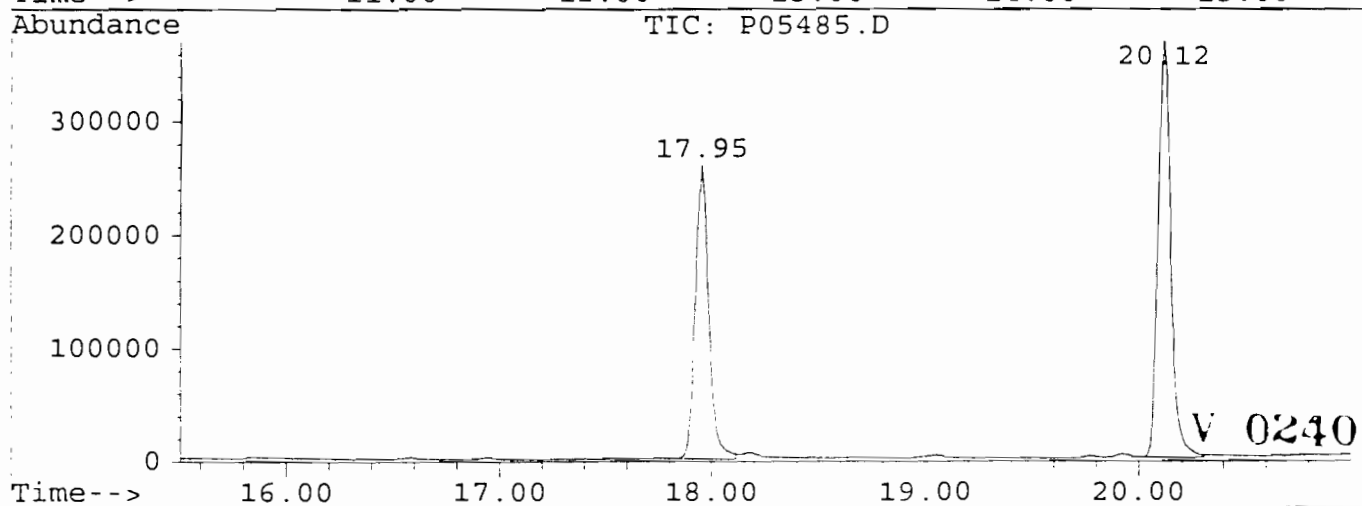
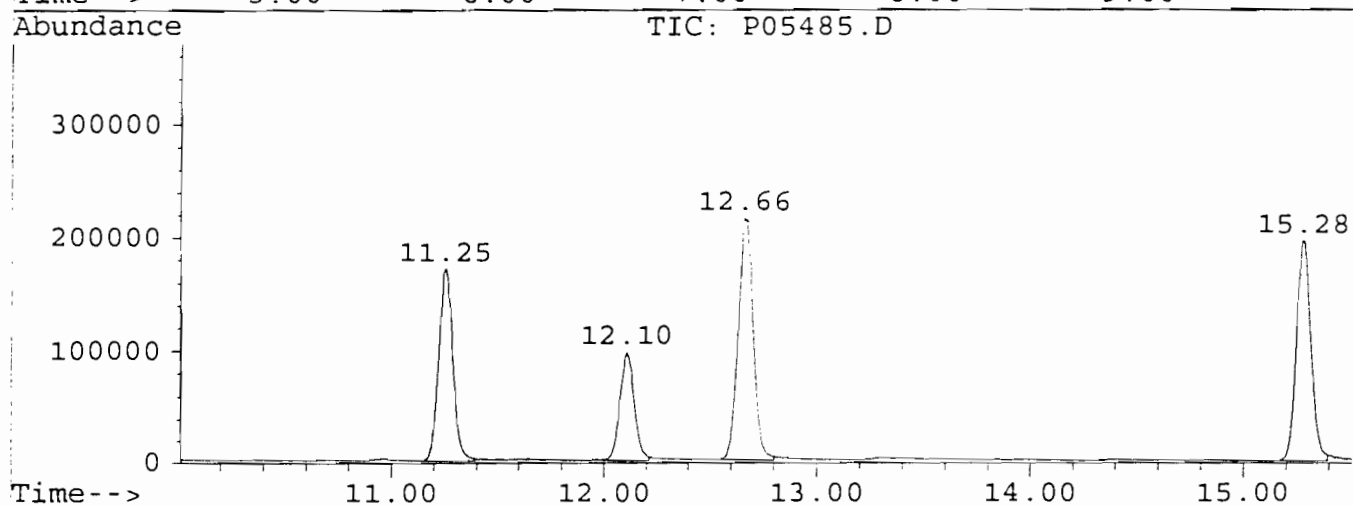
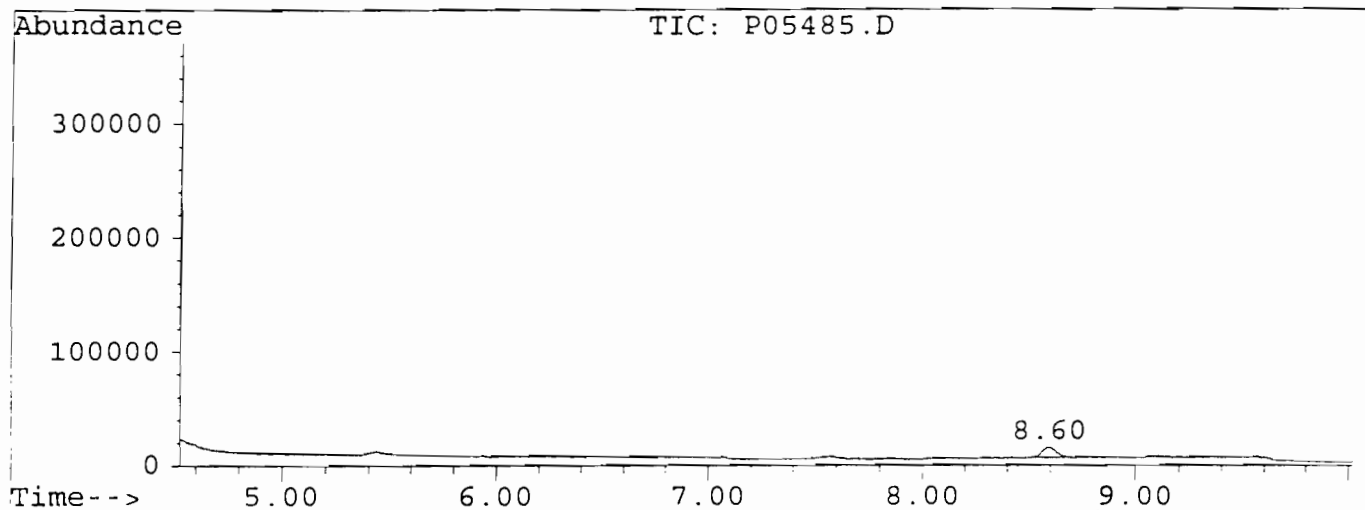
Vial: 2
Operator: GLENN
Inst : 5970 - In
Multiplr: 1.00

Method : S:\MS\HP#3\JAN97\CLPS.M
Title : VOA CLP WATER METHOD
Last Update : Wed Jan 15 13:53:47 1997
Response via : Single Level Calibration



V 0239

File : S:\MS\HP#3\JAN97\P05485.D
Operator : GLENN
Acquired : 27 Jan 97 16:00 using AcqMethod CLPS
Instrument : 5970 - In
Sample Name: VBLK27
Misc Info : H5970-3 1/27/97 5.0G
Vial Number: 2



Quantitation Report

Data File : S:\MS\HP#3\JAN97\P05485.D
 Acq On : 27 Jan 97 16:00
 Sample : VBLK27
 Misc : H5970-3 1/27/97 5.0G
 Quant Time: Feb 11 17:32 1997

Vial: 2
 Operator: GLENN
 Inst : 5970 - In
 Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\CLPS.M
 Title : VOA CLP WATER METHOD
 Last Update : Mon Jan 27 15:49:29 1997
 Response via : Continuing Cal File: C:\HPCHEM\1\DATA\P05484.D

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	11.26	128	101911	50.00	UG/L	0.00
21) 1,4-Difluorobenzene	12.66	114	382720	50.00	UG/L	0.00
33) Chlorobenzene-d5	17.95	117	316692	50.00	UG/L	0.00
System Monitoring Compounds						%Recovery
18) 1,2-Dichloroethane-d4	12.10	65	167620	53.26	UG/L	106.53%
34) Toluene-d8	15.29	98	313901	48.24	UG/L	96.48%
43) Bromofluorobenzene	20.12	95	298652	49.11	UG/L	98.22%
Target Compounds						Qvalue
8) Acetone	7.57	43	6158	5.31	UG/L	92
9) Methylene Chloride	8.60	84	10084	2.89	UG/L	89

V 0241

(#) = qualifier out of range (m) = manual integration

Library Search Compound Report

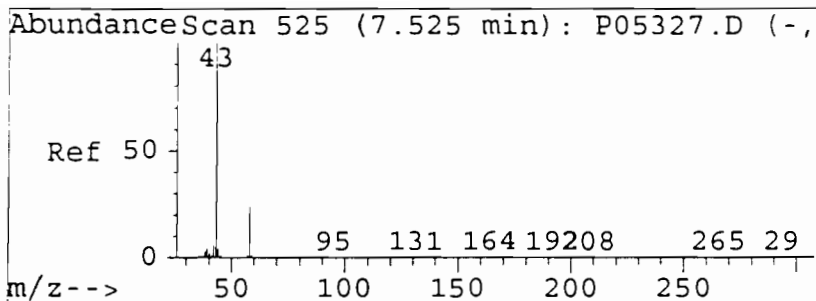
Data File : S:\MS\HP#3\JAN97\P05485.D
Acq On : 27 Jan 97 16:00
Sample : VBLK27
Misc : H5970-3 1/27/97 5.0G

Vial: 2
Operator: GLENN
Inst : 5970 - In
Multiplr: 1.00

Method : S:\MS\HP#3\JAN97\CLPS.M
Title : VOA CLP WATER METHOD
Library : NBS75K.L

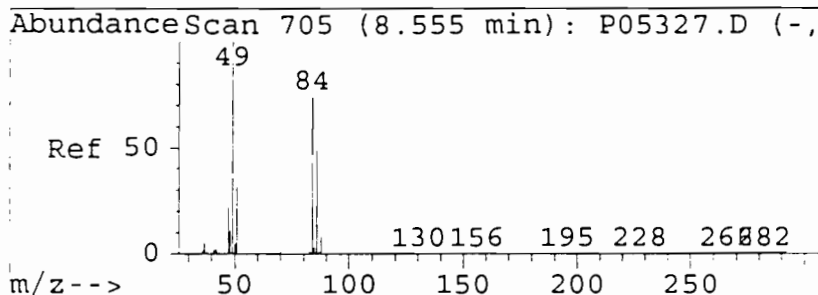
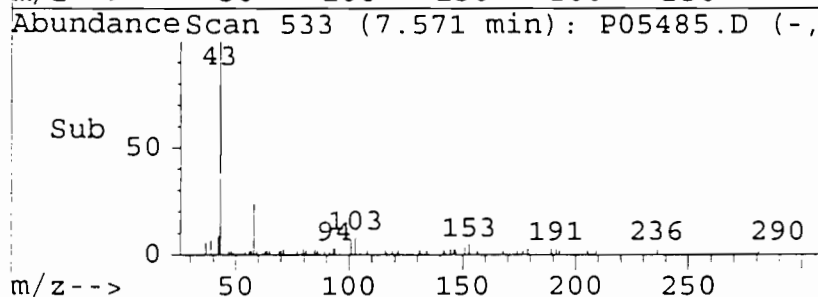
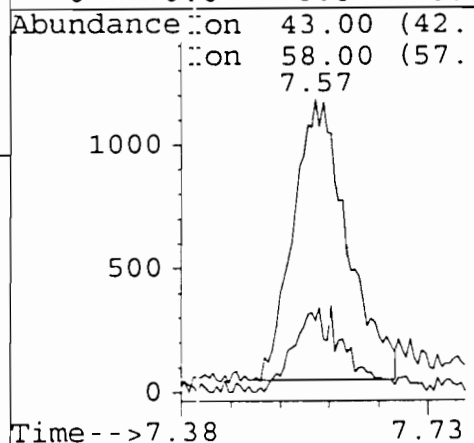
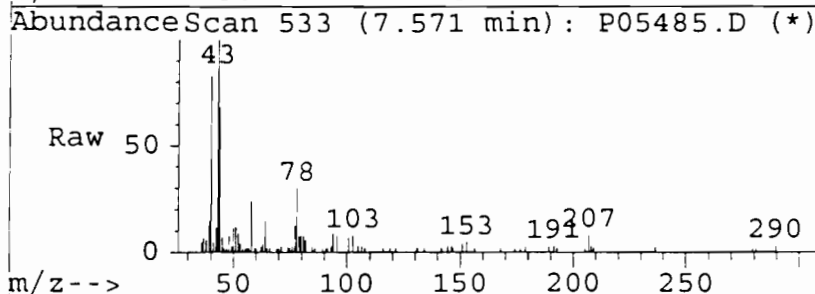
No Library Search Compounds Detected

V C242



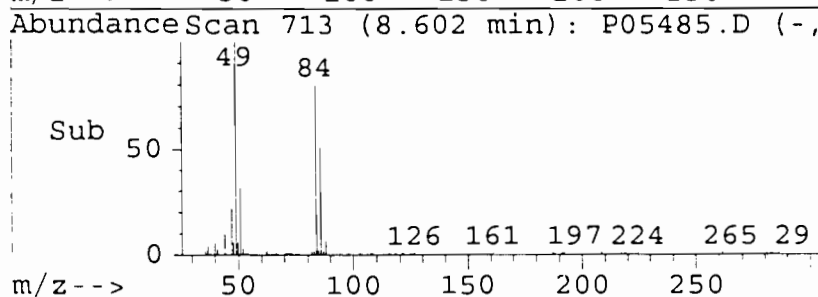
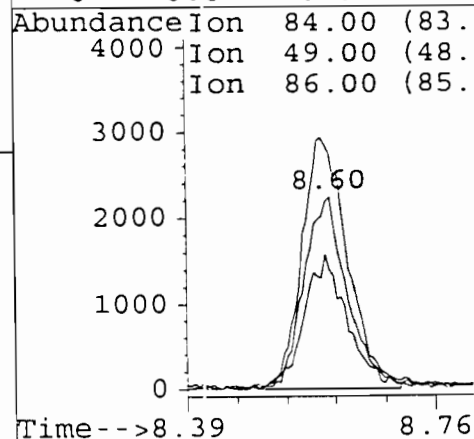
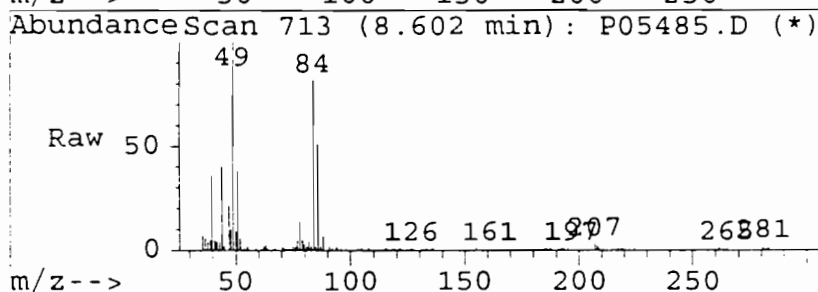
#8
Acetone
Concen: 5.31 UG/L
RT: 7.57 min Scan# 533
Delta R.T. -0.00 min
Lab File: P05485.D
Acq: 27 Jan 97 4:00 pm

Tgt Ion:43	Resp:	6158
Ion	Ratio	Lower Upper
43	100	
58	25.3	9.7 49.7
0	0.0	0.0 0.0
0	0.0	0.0 0.0



#9
Methylene Chloride
Concen: 2.89 UG/L
RT: 8.60 min Scan# 713
Delta R.T. 0.01 min
Lab File: P05485.D
Acq: 27 Jan 97 4:00 pm

Tgt Ion:84	Resp:	10084
Ion	Ratio	Lower Upper
84	100	
49	119.4	113.6 153.6
86	61.5	48.1 88.1
0	0.0	0.0 0.0



1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLK28

Lab Name: H2M LABS INC. Contract: _____

Lab Code: _____ Case No.: RA096 SAS No.: _____ SDG No.: NDEC012

Matrix: (soil/water) WATER Lab Sample ID: VBLK28

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: P05499.D

Level: (low/med) LOW Date Received: 01/23/97

% Moisture: not dec. _____ Date Analyzed: 01/28/97

GC Column: RTX502 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume _____ (uL) Soil Aliquot Volume: _____ (uL)

Handwritten:
H2M
2/25/97

CONCENTRATION UNITS:

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

V C244

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBLK28

Lab Name: H2M LABS INC. Contract: _____
Lab Code: _____ Case No.: RA096 SAS No.: _____ SDG No.: NDEC012
Matrix: (soil/water) WATER Lab Sample ID: VBLK23
Sample wt/vol: 5.0 (g/ml) ML Lab File ID: P05495.D
Level: (low/med) LOW Date Received: 01/23/97
% Moisture: not dec. _____ Date Analyzed: 01/28/97
GC Column: RTX502 ID: 0.53 (mm) Dilution Factor: 1.0
Soil Extract Volume _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

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

Number TICs found: 0

CAS NO.	COMPOUND	RT	EST. CONC.	Q

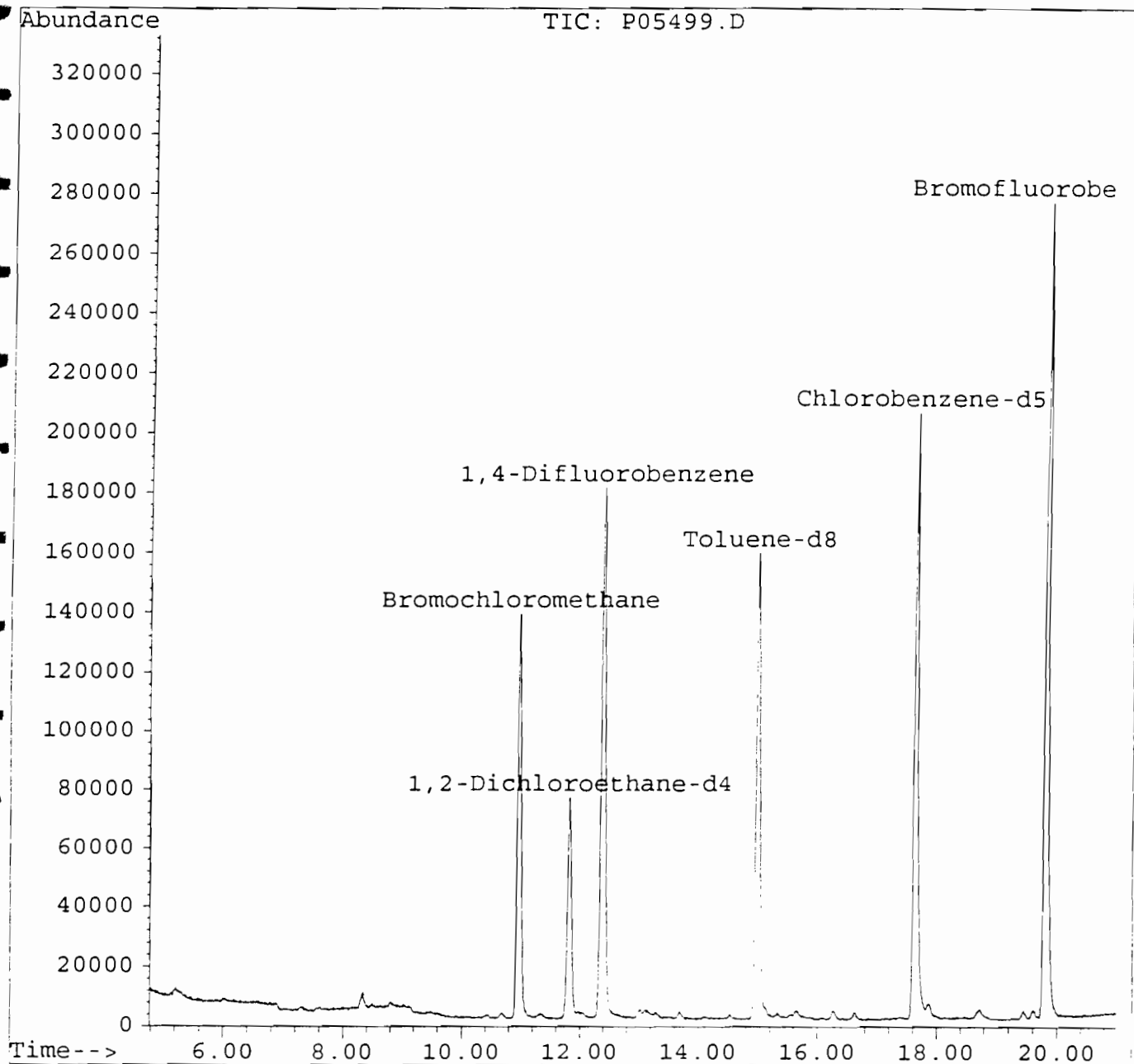
V 0245

Quantitation Report

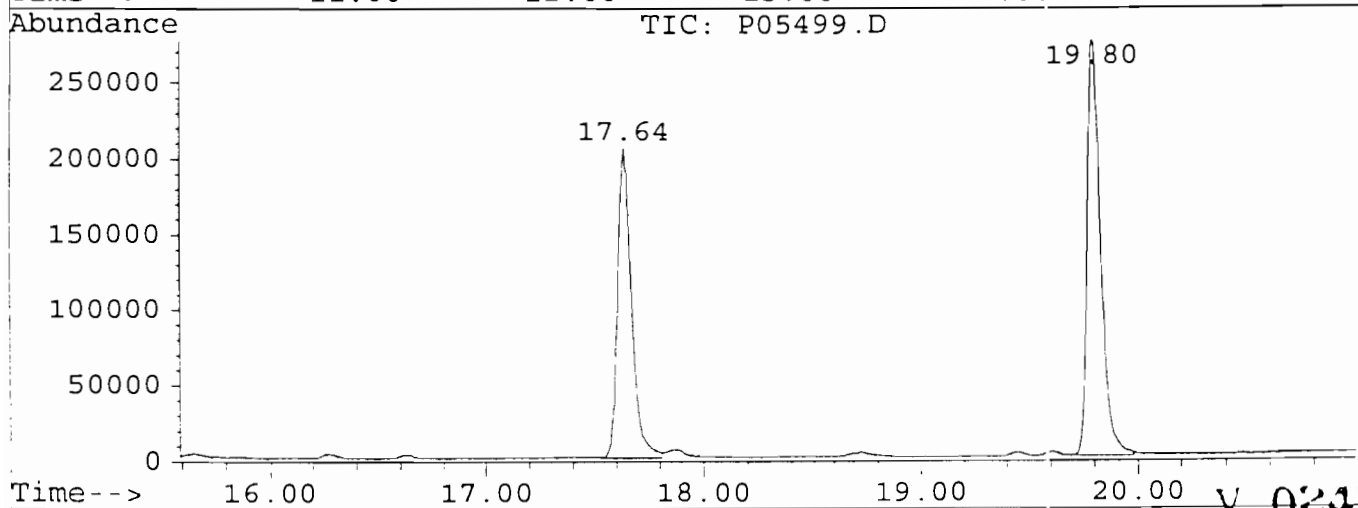
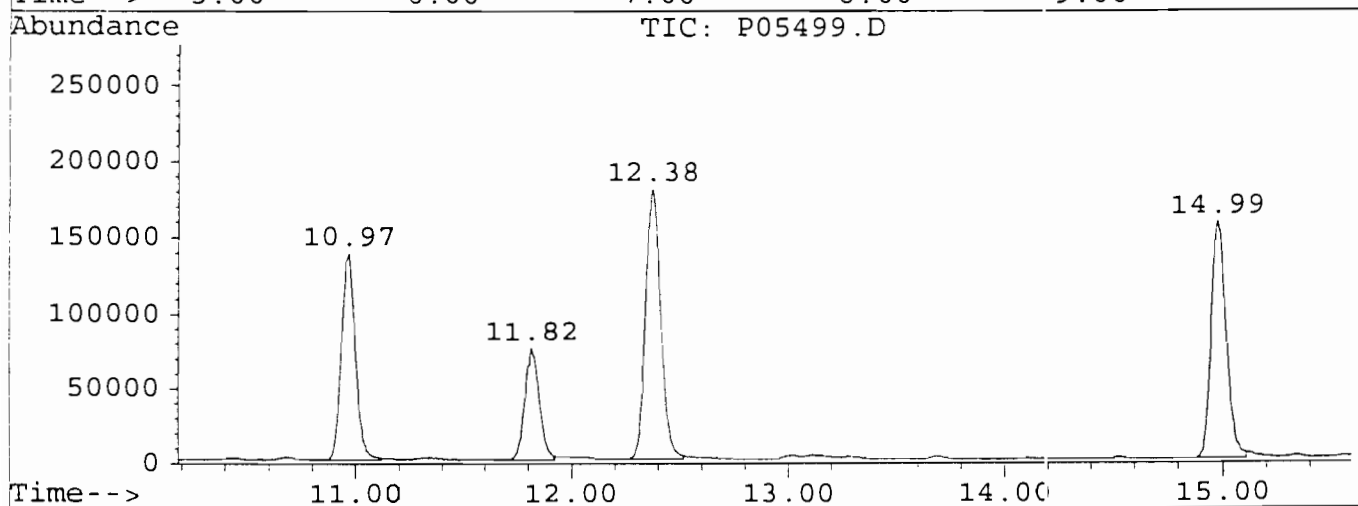
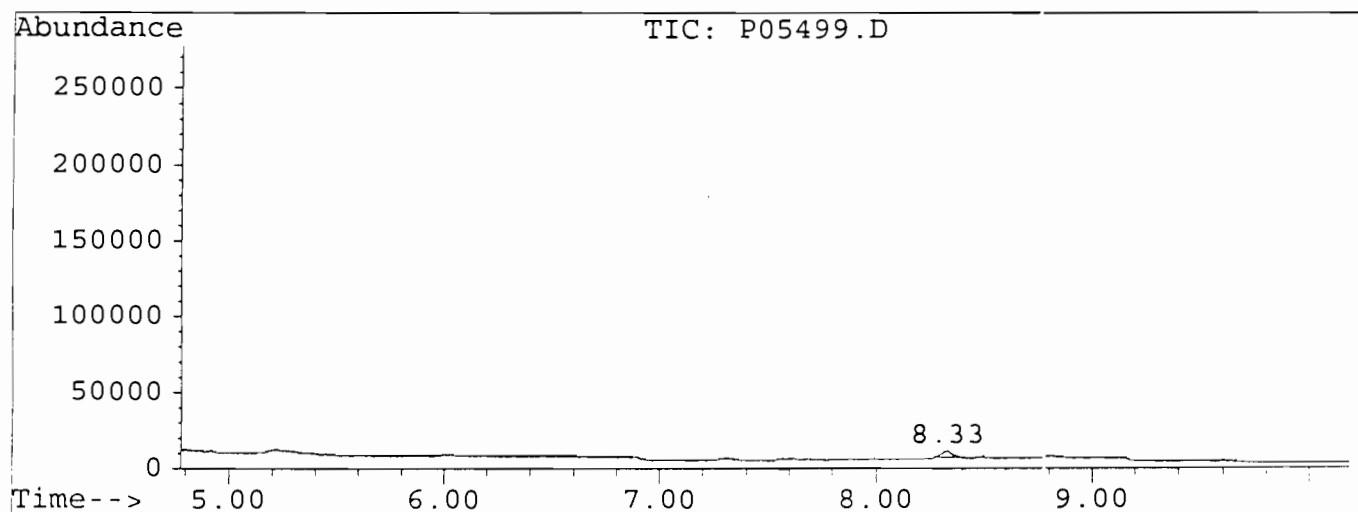
Data File : S:\MS\HP#3\JAN97\P05499.D
Acq On : 28 Jan 97 1:02 pm
Sample : VBLK28
Misc : H5970-3 1/28/97 5.0ML
Quant Time: Feb 10 14:41 1997

Vial: 4
Operator: GLENN
Inst : 5970 - In
Multiplr: 1.00

Method : S:\MS\HP#3\JAN97\CLPW.M
Title : VOA CLP WATER METHOD
Last Update : Thu Jan 16 09:32:21 1997
Response via : Single Level Calibration



File : S:\MS\HP#3\JAN97\P05499.D
Operator : GLENN
Acquired : 28 Jan 97 13:02 using AcqMethod CLPW
Instrument : 5970 - In
Sample Name: VBLK28
Misc Info : H5970-3 1/28/97 5.0ML
Vial Number: 4



Quantitation Report

Data File : S:\MS\HP#3\JAN97\P05499.D
 Acq On : 28 Jan 97 13:02
 Sample : VBLK28
 Misc : H5970-3 1/28/97 5.0ML
 Quant Time: Feb 10 14:41 1997

Vial: 4
 Operator: GLENN
 Inst : 5970 - In
 Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\CLPW.M
 Title : VOA CLP WATER METHOD
 Last Update : Tue Jan 28 12:53:08 1997
 Response via : Continuing Cal File: C:\HPCHEM\1\DATA\P05498.D

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	10.97	128	81220	50.00	UG/L	0.02
21) 1,4-Difluorobenzene	12.38	114	314671	50.00	UG/L	0.02
33) Chlorobenzene-d5	17.64	117	248528	50.00	UG/L	0.01
System Monitoring Compounds						%Recovery
18) 1,2-Dichloroethane-d4	11.82	65	128361	51.98	UG/L	103.96%
34) Toluene-d8	14.99	98	253350	50.93	UG/L	101.86%
43) Bromofluorobenzene	19.80	95	240599	50.31	UG/L	100.61%
Target Compounds						Qvalue
9) Methylene Chloride	8.32	84	5179	1.80	UG/L	89

(#) = qualifier out of range (m) = manual integration

V-C248

Library Search Compound Report

Data File : S:\MS\HP#3\JAN97\P05499.D
Acq On : 28 Jan 97 13:02
Sample : VBLK28
Misc : H5970-3 1/28/97 5.0ML

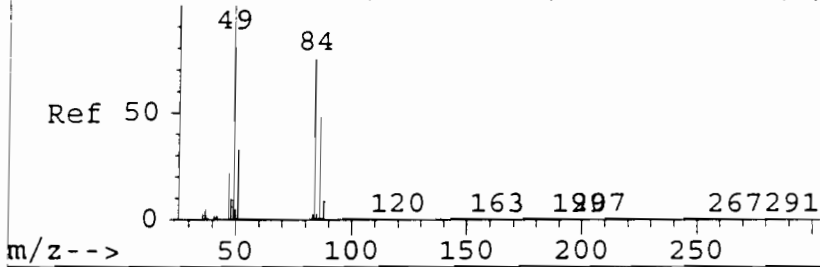
Vial: 4
Operator: GLENN
Inst : 5970 - In
Multiplr: 1.00

Method : S:\MS\HP#3\JAN97\CLPW.M
Title : VOA CLP WATER METHOD
Library : NBS75K.L

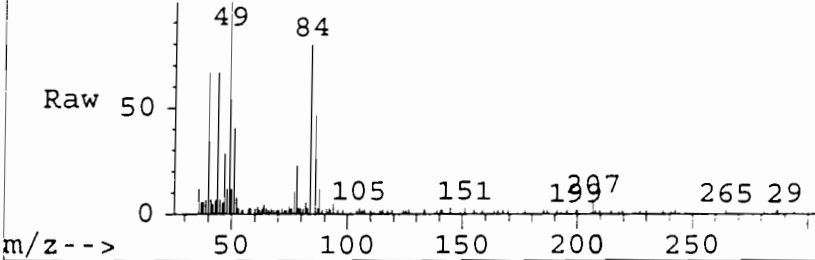
No Library Search Compounds Detected

V 0249

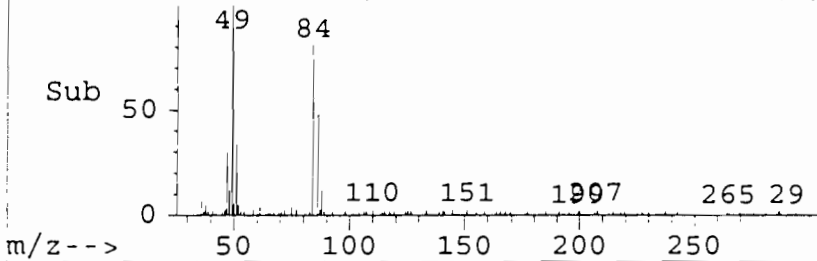
AbundanceScan 661 (8.559 min): P05322.D (-,



AbundanceScan 620 (8.323 min): P05499.D (*)



AbundanceScan 620 (8.323 min): P05499.D (-,



#9

Methylene Chloride

Concen: 1.80 UG/L

RT: 8.32 min Scan# 620

Delta R.T. -0.00 min

Lab File: P05499.D

Acq: 28 Jan 97 1:02 pm

Tgt Ion:84 Resp: 5179

Ion Ratio Lower Upper

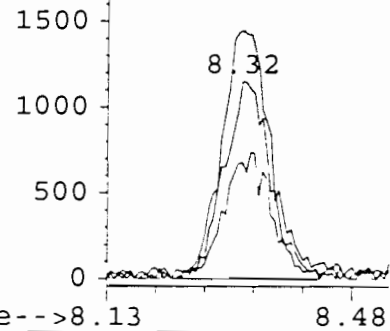
84 100

49 121.1 113.6 153.6

86 59.1 48.1 88.1

0 0.0 0.0 0.0

Abundance Ion 84.00 (83.
2000 Ion 49.00 (48.
Ion 86.00 (85.



Sample Name: VBLK28

Misc. Info: H5970-3 1/28/97 5.0ML

P05499.D CLPW.M

Wed Feb 12 15:57:11 1997

JON

V 0250

Page 3

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLK29

Lab Name: H2M LABS INC. Contract: _____

Lab Code: _____ Case No.: RA096 SAS No.: _____ SDG No.: NCEC012

Matrix: (soil/water) WATER Lab Sample ID: VBLK29

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: P05520.D

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 01/29/97

GC Column: RTX502 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

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

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBK29

Lab Name: H2M LABS INC. Contract: _____
Lab Code: _____ Case No.: RA096 SAS No.: _____ SDG No.: NDEC012
Matrix: (soil/water) WATER Lab Sample ID: VBK29
Sample wt/vol: 5.0 (g/ml) ML Lab File ID: P05520.D
Level: (low/med) LOW Date Received: _____
% Moisture: not dec. _____ Date Analyzed: 01/29/97
GC Column: RTX502. ID: 0.53 (mm) Dilution Factor: 1.0
Soil Extract Volume _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

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

Number TICs found: 0

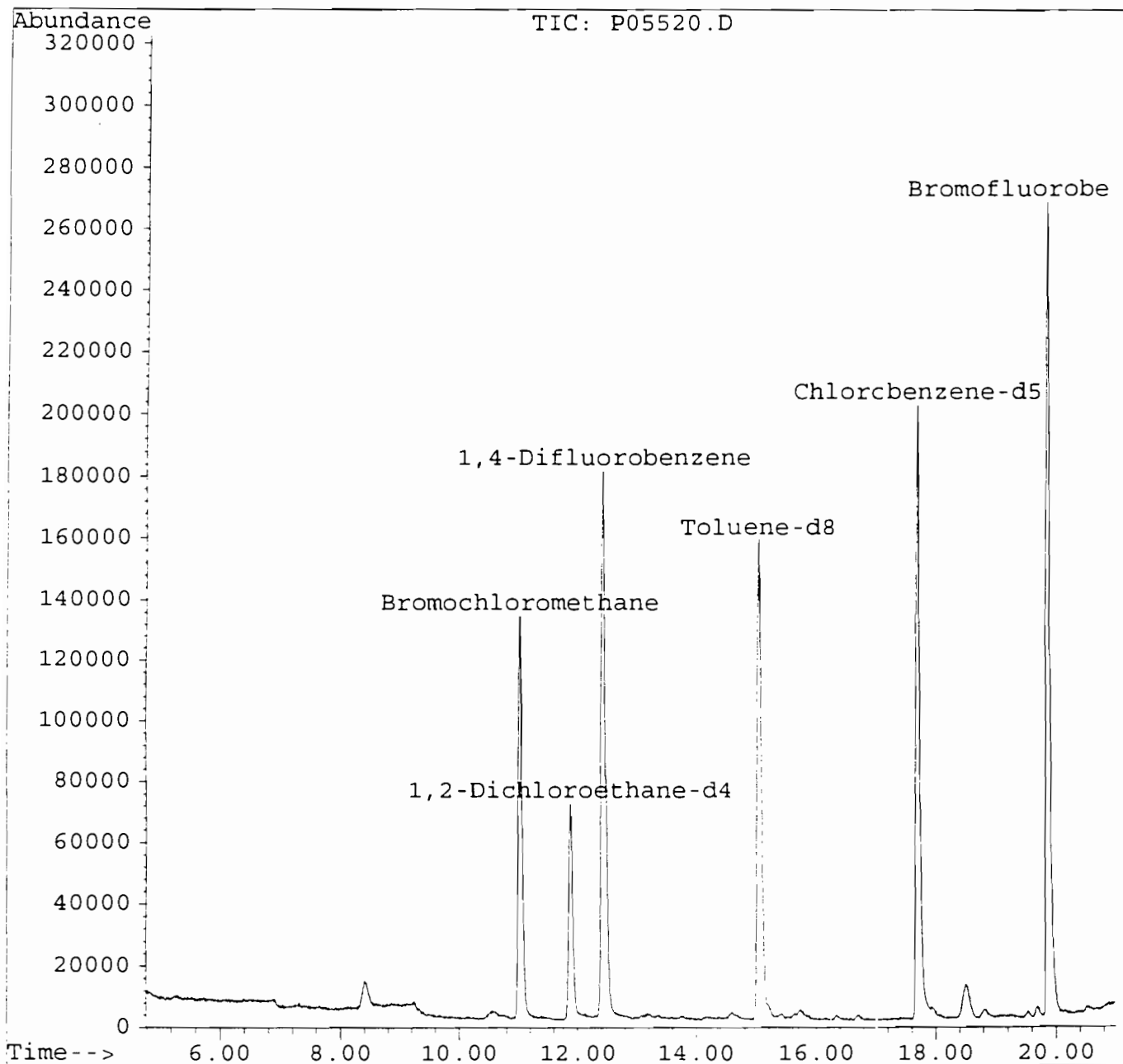
CAS NO.	COMPOUND	RT	EST. CONC.	Q

Quantitation Report

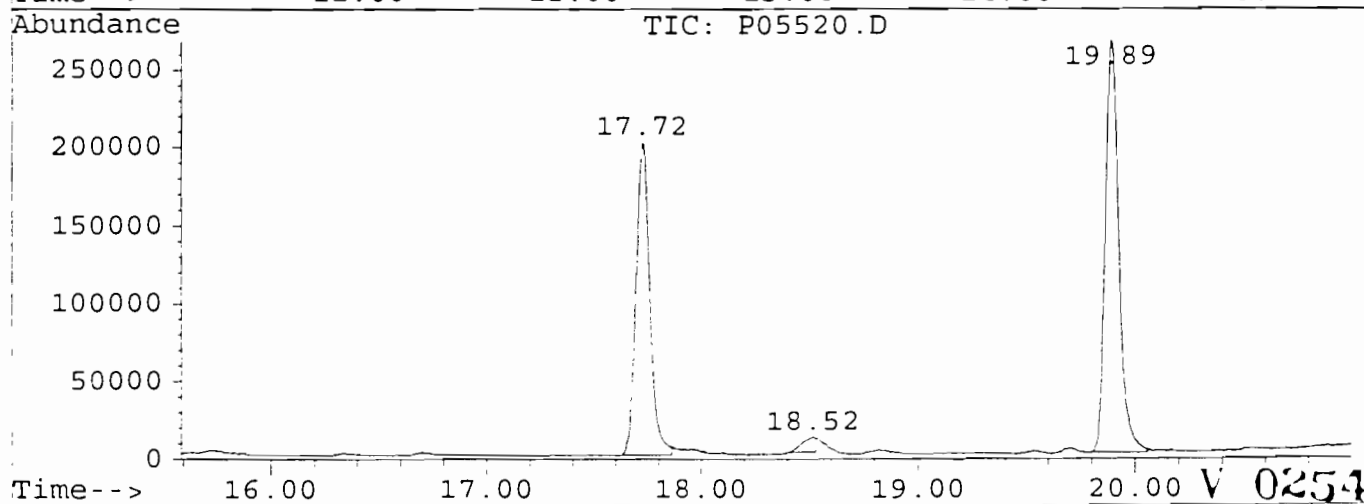
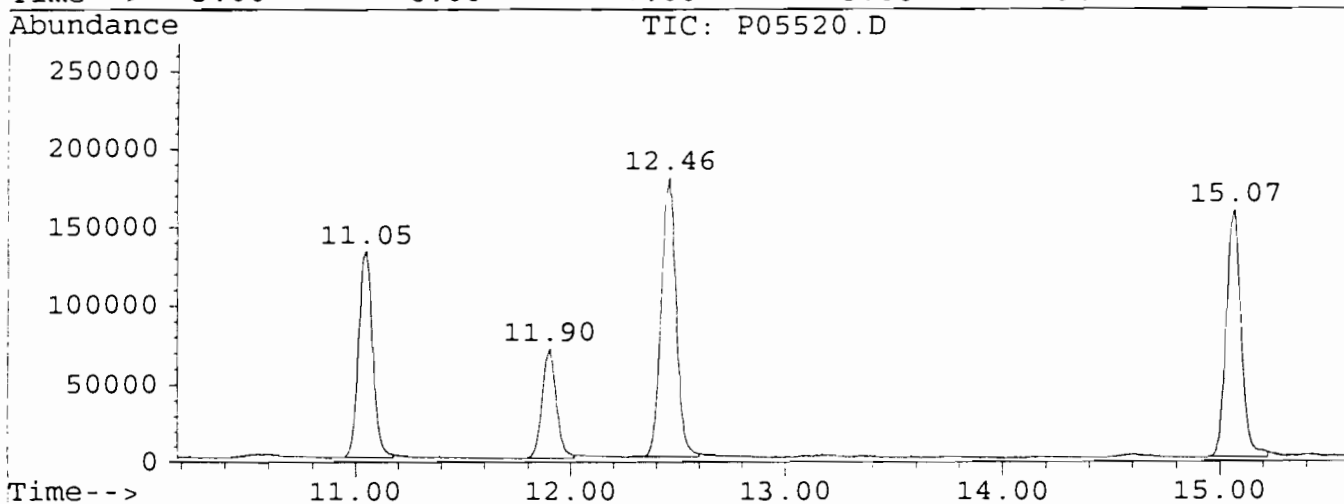
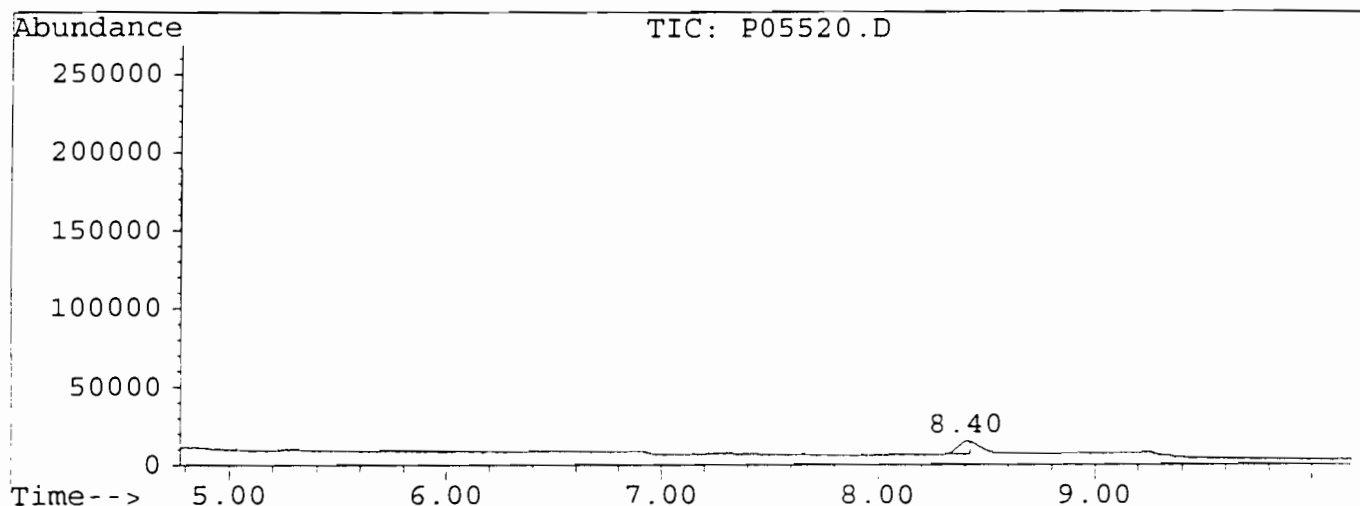
Data File : S:\MS\HP#3\JAN97\P05520.D
Acq On : 29 Jan 97 2:36 pm
Sample : VBLK29
Misc : H5970-3 1/29/97 5.0ML
Quant Time: Feb 10 14:55 1997

Vial: 2
Operator: GLENN
Inst : 5970 - In
Multiplr: 1.00

Method : S:\MS\HP#3\JAN97\CLPW.M
Title : VOA CLP WATER METHOD
Last Update : Thu Jan 16 09:32:21 1997
Response via : Single Level Calibration



File : S:\MS\HP#3\JAN97\P05520.D
Operator : GLENN
Acquired : 29 Jan 97 14:36 using AcqMethod CLPW
Instrument : 5970 - In
Sample Name: VBLK29
Misc Info : H5970-3 1/29/97 5.0ML
Vial Number: 2



Quantitation Report

Data File : S:\MS\HP#3\JAN97\P05520.D
Acq On : 29 Jan 97 14:36
Sample : VBLK29
Misc : H5970-3 1/29/97 5.0ML
Quant Time: Feb 10 14:55 1997

Vial: 2
Operator: GLENN
Inst : 5970 - In
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\CLPW.M
Title : VOA CLP WATER METHOD
Last Update : Wed Jan 29 14:26:15 1997
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\PC5519.D

Internal Standards	R.T.	QIon	Response	Ccnc	Units	Dev(Min)
1) Bromochloromethane	11.05	128	80883	50.00	UG/L	0.00
21) 1,4-Difluorobenzene	12.46	114	321665	50.00	UG/L	-0.01
33) Chlorobenzene-d5	17.72	117	254883	50.00	UG/L	0.00

System Monitoring Compounds					%Recovery
18) 1,2-Dichloroethane-d4	11.90	65	121099	53.16	UG/L 106.32%
34) Toluene-d8	15.06	98	257208	48.69	UG/L 97.38%
43) Bromofluorobenzene	19.89	95	236940	49.95	UG/L 99.90%

Target Compounds Qvalue

Library Search Compound Report

Data File : S:\MS\HP#3\JAN97\P05520.D
Acq On : 29 Jan 97 14:36
Sample : VBLK29
Misc : H5970-3 1/29/97 5.0ML

Vial: 2
Operator: GLENN
Inst : 5970 - In
Multiplr: 1.00

Method : S:\MS\HP#3\JAN97\CLPW.M
Title : VOA CLP WATER METHOD
Library : NBS75K.L

No Library Search Compounds Detected

V 0256

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLK30

Lab Name: H2M LABS INC. Contract: _____

Lab Code: _____ Case No.: RA096 SAS No.: _____ SDG No.: NDEC012

Matrix: (soil/water) WATER Lab Sample ID: VBLK30

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: P05538.D

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 01/30/97

GC Column: RTX502 ID: 0.53 (mm) Dilution Factor: 1.0

Soil Extract Volume _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

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

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBK30

Lab Name: H2M LABS INC. Contract: _____
Lab Code: _____ Case No.: RA096 SAS No.: _____ SDG No.: NDEC012
Matrix: (soil/water) WATER Lab Sample ID: VBK30
Sample wt/vol: 5.0 (g/ml) ML Lab File ID: P05538.D
Level: (low/med) LOW Date Received: _____
% Moisture: not dec. _____ Date Analyzed: 01/30/97
GC Column: RTX502 ID: 0.53 (mm) Dilution Factor: 1.0
Soil Extract Volume _____ (uL) Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:

Number TICs found: 0 (ug/L or ug/Kg) UG/L

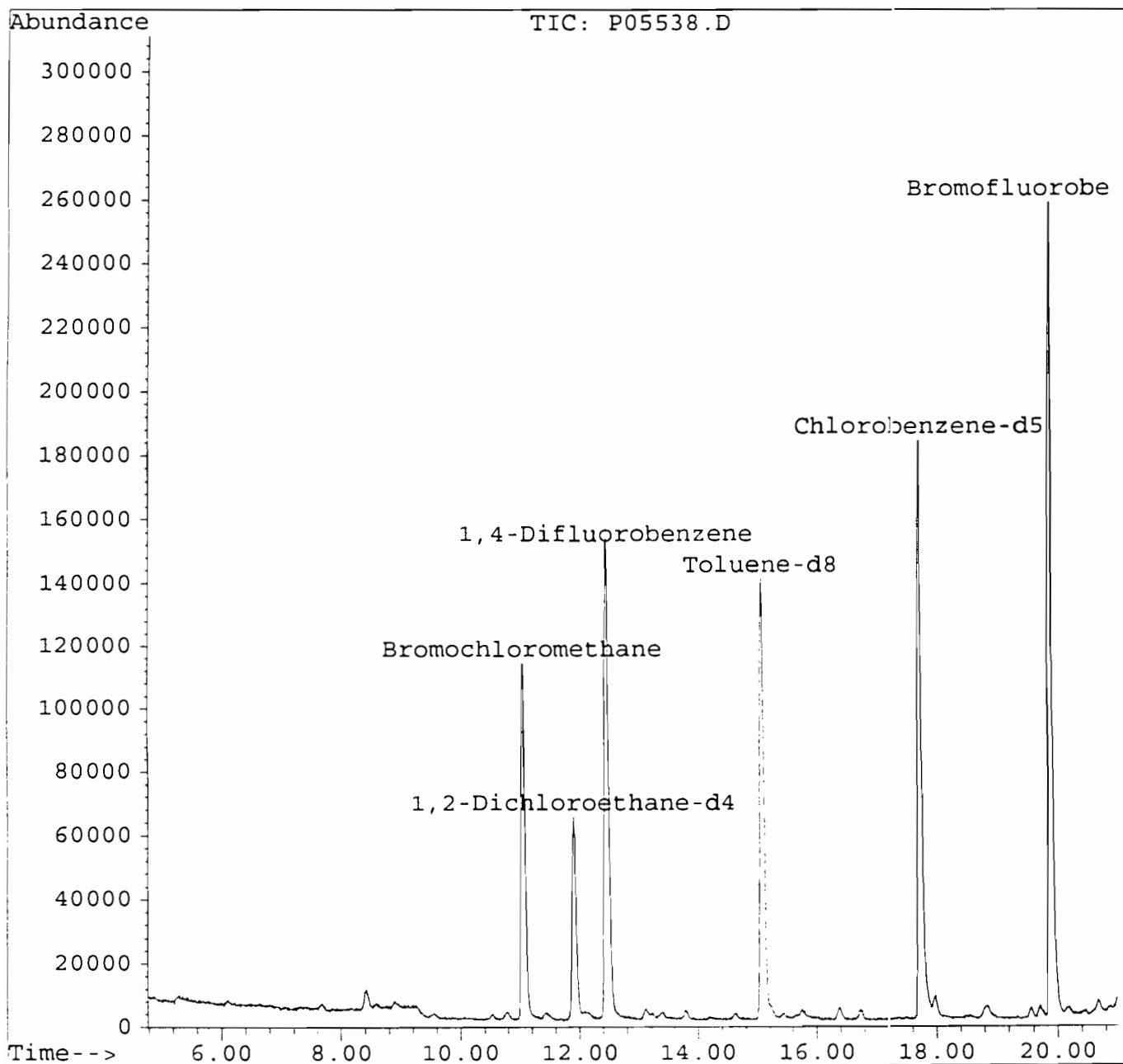
CAS NO.	COMPOUND	RT	EST. CONC.	Q

Quantitation Report

Data File : S:\MS\HP#3\JAN97\P05538.D
Acq On : 30 Jan 97 12:54 pm
Sample : VBLK30
Misc : H5970-3 1/30/97 5.0ML
Quant Time: Feb 11 18:13 1997

Vial: 2
Operator: GLENN
Inst : 5970 - In
Multiplr: 1.00

Method : S:\MS\HP#3\JAN97\CLPW.M
Title : VOA CLP WATER METHOD
Last Update : Thu Jan 16 09:32:21 1997
Response via : Single Level Calibration



V 0259

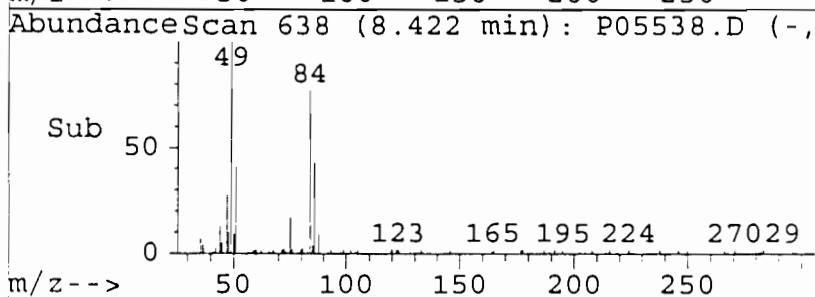
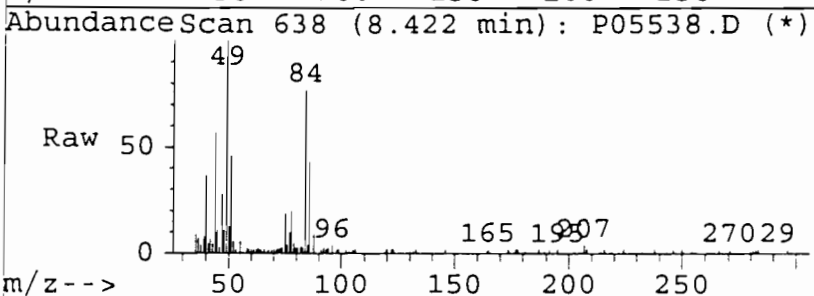
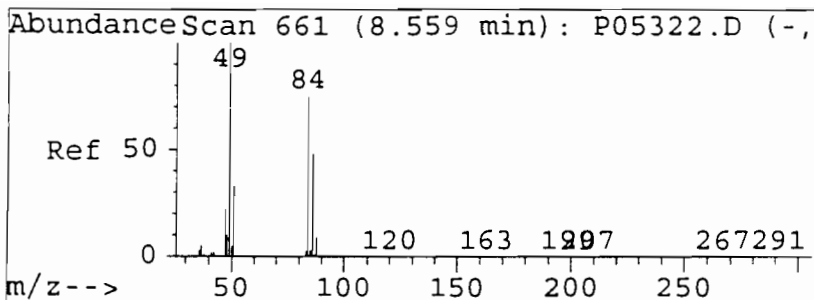
Quantitation Report

Data File : S:\MS\HP#3\JAN97\P05538.D
Acq On : 30 Jan 97 12:54
Sample : VBLK30
Misc : H5970-3 1/30/97 5.0ML
Quant Time: Feb 11 18:13 1997

Vial: 2
Operator: GLENN
Inst : 5970 - In
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\CLPW.M
Title : VOA CLP WATER METHOD
Last Update : Thu Jan 30 12:38:50 1997
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\P05537.D

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	11.07	128	68310	50.00	UG/L	0.00
21) 1,4-Difluorobenzene	12.49	114	268160	50.00	UG/L	0.00
33) Chlorobenzene-d5	17.75	117	224941	50.00	UG/L	-0.01
System Monitoring Compounds				%Recovery		
18) 1,2-Dichloroethane-d4	11.92	65	110046	50.35	UG/L	100.70%
34) Toluene-d8	15.09	98	223765	49.18	UG/L	98.36%
43) Bromofluorobenzene	19.91	95	222860	50.27	UG/L	100.55%
Target Compounds				Qvalue		
9) Methylene Chloride	8.42	84	6094	2.46	UG/L	90



#9

Methylene Chloride

Concen: 2.46 UG/L

RT: 8.42 min Scan# 638

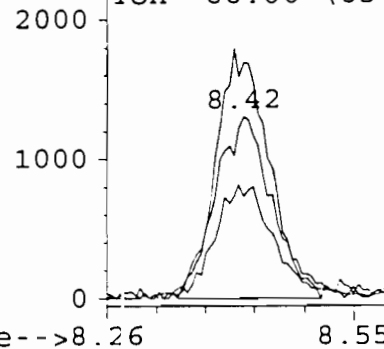
Delta R.T. -0.02 min

Lab File: P05538.D

Acq: 30 Jan 97 12:54 pm

Tgt Ion:	84	Resp:	6094
Ion	Ratio	Lower	Upper
84	100		
49	124.2	113.6	153.6
86	55.8	48.1	88.1
0	0.0	0.0	0.0

Abundance	Ion	84.00	(83.
	Ion	49.00	(48.
	Ion	86.00	(85.



Sample Name: VBLK30

Misc. Info: H5970-3

P05538.D CLPW.M

1/30/97 5.0ML

Fri Feb 14 16:42:53 1997

JON

V 0261

Page 3

H2M LABS, INC.

COMPUTATIONS FOR VOLATILE ORGANICS PERFORMED BY RTE DATA SYSTEM OF HP

$$\text{CONC} = \frac{\text{Ax}}{\text{Ais} \times \text{RRF}} \quad \frac{\text{Is}}{\text{W}}$$

WHERE:

CONC = Concentration in sample (ug/L or ug/KG)

AX = Area of characteristic ion of compound

Ais = Area of characteristic ion of internal standard

RRF = Relative response factor as area per (ng) of compound, divided by area per ng of respective internal standard

Is = Amount of internal standard injected (ng)

W = Volume of sample in (ml) or dry weight (g)

Generally the amount of each internal standard injected is 250 ng.

H2M LABS, INC.

V. DOCUMENTATION FOR VOLATILE ORGANICS

- A. LOG BOOK PAGES
- B. REPORTING ANALYST SIGNATURE PAGE

VOLATILE

Surr.		
I.S.		
M.S.		
QC Check		

SCAN: VOA

INSTRUMENT: H5970-3

COLUMN: RTX502.2

DATE	RUN #	SAMPLE	LAB #	VOL.	COMMENTS	TIME INJ.	ANALYSTS SIGNATURE
12/24/96	P05317		9636749	5.0g	1	1523	J. Bochnach
"	P05318		9636749 DL	0.8g	2	1618	"
12/31/96	P05319	50ng BFB		5.0ml	1	0905	J. Bochnach
	P05320	VSTD010			3	1043	
	P05321	VSTD020 *			4	1119	
	P05322	VSTD050 *			CLPW.M 5	1150	
	P05323	VSTD100 *			6	1221	
	P05324	VSTD200 *			7	1252	
	P05325	VSTD010 *			9	1323	
	P05326	VSTD020 *			10	1354	
	P05327	VSTD050 *			CLPS.M 11	1425	
	P05328	VSTD100 *			12	1456	
	P05329	VSTD200 *			13	1527	
	P05330	VSTD010 *			CLPW.M 14	1642	
12/97	P05331	50ng BFB		5.0ml	8	1036	J. Bochnach
	P05332	VSTD050		"	CLPS.M 8	1153	
	P05333	VBLKZ		5.0g	9	1306	
	P05334	VHBLKZ			10	1402	
	P05335	EP-1	9637060		11	1433	
	P05336	MSBZ			12	1506	
	P05337	EP-1MS	9637060MS		13	1550	
	P05338	EP-1MSD	9637060MSD		14	1621	

Backed 12/97

P C052

V 0264

VOLATILE

M.S.		
QC Check		

SCAN: VOA

INSTRUMENT: H5970-3

COLUMN: RTX502.2

DATE	RUN #	SAMPLE	LAB #	VOL.	COMMENTS	TIME INJ.	ANALYSTS SIGNATURE
1/22/97	P05449	MW-218S	9701773	5.0ml		10 1444	JB Beluche
	P05450	MW-218S MS	9701773 MS			11 1514	
	P05451	MW-218S MS D	9701773 MS D			12 1544	
	P05452	MW-218U	9701774			13 1614	
	P05453	Field Blank	9701775			14 1643	
	P05454	MW-208S	9701814			15 1713	
	P05455	MW-208D	9701815			16 1743	
	P05456	MW-210D	9701816			1 1813	
	P05457	MW-202S	9701817			2 1842	
	P05458	Trip Blank	9701819			3 1912	
↓	P05459		9701627	↓		4 1942	↓
1/24/97	P05460✓	50 ng BFB		1ul	Direct	0911	JB Beluche
	P05461✓	VSTD050		5.0ml		1 1019	
	P05462✓	VBLK24		5.0g		2 1059	
	P05463	MSB24				3 1130	
	P05464	B60201	9702015			4 1207	
	P05465	B60201 MS	9702015 MS			5 1238	
	P05466	B60201 MS D	9702015 MS D			6 1309	
	P05467	B60202	9702016			7 1340	
	P05468	B60203	9702017			8 1410	
	P05469	B60204	9702018			9 1441	
↓	P05470	B60205	9702019	↓		10 1512	↓

P C058 \ 0265

VOLATILE

Surr.		
I.S.		
M.S.		
QC Check		

SCAN: VOA

INSTRUMENT: H5970-3

COLUMN: RTX502.2

DATE	RUN #	SAMPLE	LAB #	VOL.	COMMENTS	TIME INJ.	ANALYSTS SIGNATURE
11/24/97	P05471	B60206	9702020	5.0g		11 1543	JR Bouchard
	P05472	B60207	9702021			12 1614	
	P05473	B60208	9702022			13 1645	
	P05474	B60209	9702023			14 1716	
	P05475	B60210	9702024			15 1747	
	P05476 ✓	B60211	9702025		Rec 2.0g	16 1818	
	P05477 ✓	B60212	9702026			1 1849	
	P05478 ✓	B60213	9702027			2 1920	
	P05479 ✓	B60215	9702029		Rec 2.0g	3 1950	
	P05480 ✓	B60216	9702030			4 2021	
	P05481 ✓	B60217	9702031			5 2052	
	P05482		9701628		Rec 1.0g	6 2123	
11/27/97	P05483 ✓	50ng BFB		1ul	Direct	1246	JR Bouchard
	P05484 ✓	VSTD050		5.0ml		1 1521	
	P05485 ✓	VBLK27		5.0g		2 1600	
	P05486 ✓	B60211 DL	9702025 DL	2.0g		3 1644	
	P05487 ✓	B60215 DL	9702029 DL	2.0g		4 1715	
	P05488 ✓	B60218	9702032	5.0g		5 1746	
	P05489	B60231	9702300			6 1817	
	P05490	B60232	9702301			7 1847	
	P05491	B60233	9702302			8 1918	
	P05492	B60234	9702303			9 1949	

P C059

V 0266

H2M LABS, INC.

VOLATILE

SCAN: VOA

INSTRUMENT: H5970-3

COLUMN: RTX502.2

	LO #	ID
Surr.		
I.S.		
M.S.		
QC Check		

DATE	RUN #	SAMPLE	LAB #	VOL.	COMMENTS	TIME INJ.	ANALYSTS SIGNATURE
1/27/97	P05493	B60236	9702304	5.0g	10	2020	J. Boduch
	P05494	B60241	9702306	↓	11	2051	↓
1/28/97	P05495	50 ng BFB		1ul	Direct	0931	J. Boduch
	P05496	VSTD050		5.0ml	CLPS.M	1 1010	
	P05497	VBLK28		5.0g	2	1103	
	P05498	VSTD050		5.0ml	CLPW.M	3 1221	
	P05499	VBLK28		"	4	1302	
	P05500	B60242	9702307	5.0g	5	1345	
	P05501	B60243	9702308		6	1416	
	P05502	B60250	9702421		7	1447	
	P05503	B60251	9702422		8	1518	
	P05504	B60252	9702423	↓	Re No purge	9 1549	
	P05505	B60220	9702037	5.0ml	Confirm then 1:20	10 1620	
	P05506	B60221	9702038		Confirm then 1:5	11 1649	
	P05507	B60222	9702039		Dilute 1:5	12 1719	
	P05508	Trip Blank	9702046		Confirm	13 1749	
	P05509	B60226	9702290			14 1819	
	P05510	B60227	9702291		Dilute 1:5	15 1849	
	P05511	B60228	9702292			16 1919	
	P05512	B60229	9702293			1 1949	
	P05513	B60230	9702294	↓		2 2018	
↓	P05514		9701628	1.0g		3 2048	↓

Backed up 1/28

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V 0267

H2M LABS, INC.

VOLATILE

	LOT #	SOL'N ID
Surr.		
I.S.		
M.S.		
QC Check		

SCAN: VOA

INSTRUMENT: H5470-3

COLUMN: RTX502.2

DATE	RUN #	SAMPLE	LAB #	VOL.	COMMENTS	TIME INJ.	ANALYSTS SIGNATURE
1/28/97	P05515	VSTD050		5.0ml	4	2120	↓
	P05516	VBLK28		5.0g	5	2150	
	P05517		9702141	5.0g	Run Med	6	2220
1/29/97	P05518	50ng BFB		5.0ml	3	1306	↓
	P05519	VSTD050			1	1349	
	P05520	VBLK29			2	1436	
	P05521	B60235	9702295		3	1513	
	P05522	B60237	9702296		4	1542	
	P05523	B60238	9702297		Re Surr	5	1612
	P05524	B60239	9702298		Dilute 1:2	6	1642
	P05525	Trip Blank	9702299		7	1714	
	P05526	Trip Blank	9702299		7	1714	
	P05527	Trip Blank	9702046		Re Surr	8	1744
	P05528	B60220	9702037		9	1814	
	P05529	B60220	9702037		1:20 Re 1.2510	1844	
	P05530	B60221	9702038		11	1914	
	P05531	B60221 DL	9702038		1:5	12	1943
	P05532	B60222 DL	9702039		1:5	13	2013
	P05533	B60227 DL	9702291 DL		1:5	14	2043
	P05534	B60238 RE	9702297 RE		Do Not Rpt.	15	2112
↓	P05535	B60239 DL	9702298 DL	↓	1:5	16	2142
1/30/97	P05536	50ng BFB		1.0ml	Direct 0851	1804	↓

H2M LABS, INC.

VOLATILE

	#	ID
Supp.		
I.S.		
M.S.		
QC Check		

SCAN: VJA

INSTRUMENT: H5970-3

COLUMN: RTX502.2

DATE	RUN #	SAMPLE	LAB #	VOL.	COMMENTS	TIME INJ.	ANALYSTS SIGNATURE
1/30/97	P05537	VSTD050		5.0ml	1	1211	MBachmech
	P05538	VBLK30			2	1254	
	P05539	VHBLK30			3	1324	
	P05540	B60220 DL	9702037DL		1:25 4	1354	
	P05541	Trip Blank	9702046		5	1423	
	P05542	B60238	9702297		6	1453	
	P05543		9702716		7	1527	
	P05544		9702717		8	1557	
	P05545		9702718		9	1627	
	P05546		9702719		10	1656	
	P05547		9702720		11	1726	
	P05548	VSTD050			12	1757	
	P05549	VBLK30			13	1827	
	P05550		9702141		4g → 10ml 10ml 14	1857	
↓	P05551		9702141	↓	4g → 10ml 100ml 15	0749	↓
1/31/97	P05552	Sony BFB		1ul	Direct	1050	MBachmech
	P05553	VSTD050		5.0ml	1	1127	
	P05554	VBLK31		5.0g	2	1224	
	P05555	B60252	9702423		3	1322	
↓	P05556		9702759	↓	4	1353	↓
2/5/97	P05557	Sony BFB		1ul	Direct	1017	MBachmech
"	P05558	VSTD050		5.0ml	1	1213	"

Backed up 2/3/97

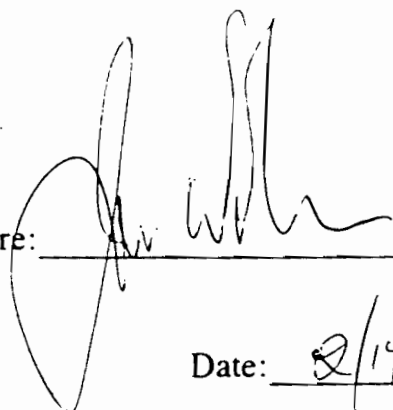
P 0062

V 0269

SDG # NDEC0122

SCAN VJA

This data package was reported by the undersigned. This reporting includes data calculations, manual edits if necessary, and compilation of raw data. The information presented is true and correct to the best of my knowledge.

Signature:  _____

Date: 2/14/97

