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ANNUAL OPERATIONS AND MAINTENANCE STATUS REPORT FOR AIR SPARGING AND SOIL VAPOR EXTRACTION SYSTEM AT 103RD STREET AND A AVENUE JET FUEL TRANSFER PIPELINE NAS CECIL FIELD FL

8/1/2001

CH2MHILL CONSTRUCTORS INC

Annual Operations and Maintenance Status Report

Air Sparging and Soil Vapor Extraction System
103rd Street and "A" Avenue Jet Fuel Transfer Pipeline

May 23, 2000 – May 31, 2001

Naval Air Station Cecil Field
Jacksonville, Florida

Contract No. N62467-98-D-0995
Contract Task Order No. 0029

Submitted to:

U.S. Naval Facilities
Engineering Command
Southern Division

Prepared by:

115 Perimeter Center Place, N.E.
Suite 700
Atlanta, GA 30346

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Acronyms

AST	aboveground storage tank
bls	below land surface
CCI	CH2M HILL Constructors, Inc.
cfm	cubic feet per minute
CTO	Contract Task Order
DO	dissolved oxygen
EPA	U.S. Environmental Protection Agency
FAC	Florida Administrative Code
FDEP	Florida Department of Environmental Protection
GAC	granular activated carbon
GCTLs	groundwater cleanup target levels
J.A. Jones	J.A. Jones Environmental Services, Inc.
LNAPL	Light Non-Aqueous Phase Liquids
NAS	Naval Air Station
NAVFAC	Naval Facilities Engineering Command
O&M	Operation and Maintenance
si	pounds per square inch
RAP	Remedial Action Plan
scfm	standard cubic feet per minute
SVE	soil vapor extraction
SVOC	semi-volatile organic compound
TRPH	total recoverable pertoleum hydrocarbon
TtNUS	Tetra Tech NUS
VOCs	volatile organic compounds

1.0 Introduction

CH2M HILL Constructors, Inc. (CCI) has been contracted by the Department of the Navy, Southern Division Naval Facilities Engineering Command (NAVFAC), to provide operation and maintenance (O&M) services at 103rd Street and "A" Avenue Jet Fuel Transfer Pipeline (103rd Street and "A" Avenue), Naval Air Station (NAS) Cecil Field, Jacksonville, Florida, under Response Action Contract No. N62467-98-D-0995, Contract Task Order (CTO) No. 0029. The purpose of this Annual O&M Report is to provide a summary of activities performed at the site during the period of May 23, 2000, to May 31, 2001. The Florida Department of Environmental Protection (FDEP) Annual Status Report Summary form is provided in Appendix A.

1.1 Objective

The objective of the remedial action at the site of 103rd Street and "A" Avenue is to reduce the concentrations of petroleum related contaminants in the groundwater and unsaturated soils to target levels specified by Florida Administrative Code (FAC) 62-777. Air sparging/ soil vapor extraction (SVE) is the technology being utilized to achieve this objective.

1.2 Site History

The 103rd Street and "A" Avenue site is located approximately ¼-mile east of the "A" Avenue gate to NAS Cecil Field. An 8-inch diameter, steel jet fuel transfer pipeline was completed in 1952 to transfer jet fuel from NAS Jacksonville to NAS Cecil Field. A small leak (1/8-inch diameter) was discovered in July 1997 in the pipeline located beneath the eastbound lane of 103rd Street. In July 1997, Bechtel Environmental, Inc. removed approximately 900 cubic yards of petroleum-contaminated soil that had resulted from the leak. The pipeline is currently de-fueled and inactive (Tetra Tech NUS [TtNUS], 1999).

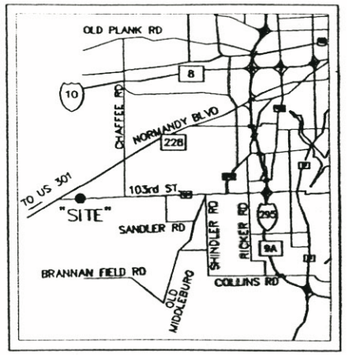
Site assessment activities were performed by TtNUS from 1998 to 1999 to delineate the extent of the light non-aqueous phase liquid (LNAPL), and soil and groundwater contamination at the site and a Remedial Action Plan (RAP) was submitted in August 1999. The RAP specified air sparging and soil vapor extraction as the chosen remedial alternatives to address the soil and groundwater contamination at the site (TtNUS, 1999). The RAP-specified remediation system was constructed by CCI/J.A. Jones during the period of March to May 2000 and start-up was completed on May 23, 2000. The system has been operated and maintained by CCI/J.A. Jones Environmental Services, Inc. (J.A. Jones) since start-up.

1.3 Remediation System/Technology Description

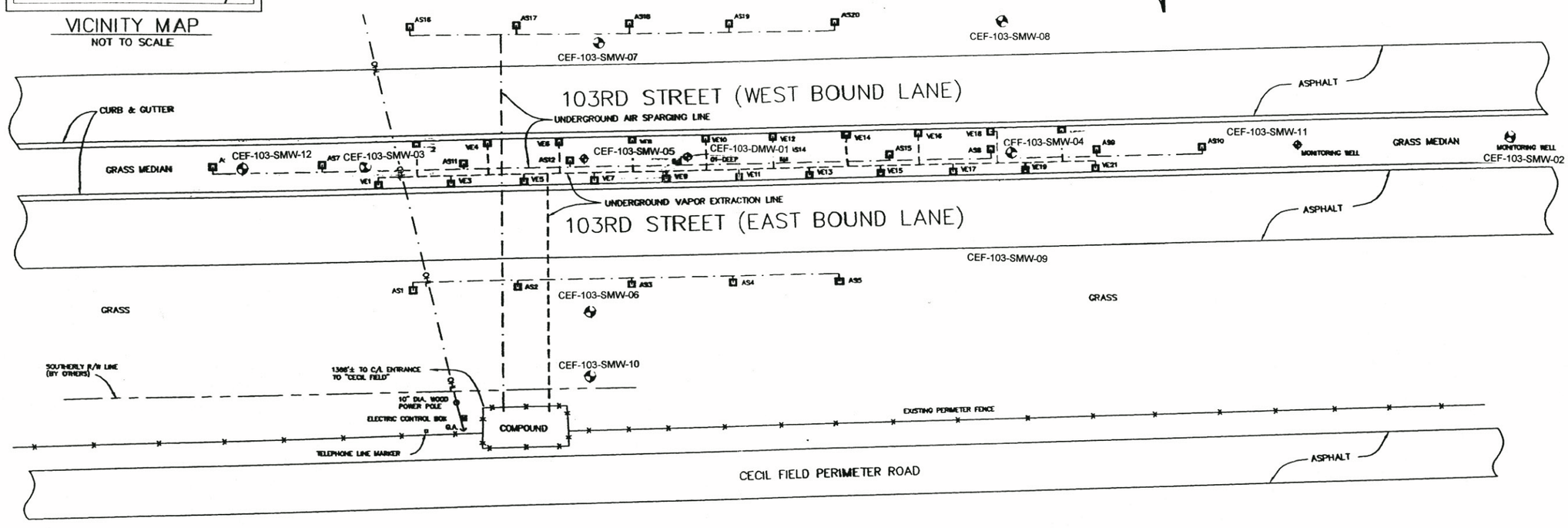
Air sparging is a method of expediting the transfer of saturated zone volatile organic compounds (VOCs) from the groundwater table to the vadose zone, where an SVE system can complete the VOC removal process. Hydrocarbon-free air is injected into air sparge wells, which are screened within the groundwater contaminant plume. As the injected air

passes upward through the VOC laden groundwater and soil, VOCs are partitioned to the passing air and migrate to the vadose zone. The SVE wells, which are located in the vadose zone above the sparge area, apply a vacuum such that the sparge air is captured and removed from the subsurface. The 103rd Street and "A" Avenue air sparge system consists of 20 air sparge wells, labeled as AS-1 through AS-20 that are screened from 22 to 25 feet below land surface (feet bls), a rotary screw-type compressor, a receiver tank, and associated piping and instrumentation. The air sparge system is designed for each air sparge well to operate at an airflow rate of 10 to 12 cubic feet per minute (cfm) at a maximum pressure of 12 pounds per square inch (psi). The locations of the air sparge wells are shown on Figure 1-1.

SVE is performed by applying a negative pressure, or vacuum, to SVE wells placed in the vadose zone. The actual removal is accomplished by lowering the relative pressure in the soil mass below the equilibrium pressure of the contaminant using a vacuum blower. The contaminant in the soil will volatilize and then be removed via the SVE wells. The SVE system at the 103rd Street and "A" Avenue site consists of 21 vertical vapor extraction wells, VE-1 through VE-21; a positive displacement type vacuum blower; a moisture separator equipped with a transfer pump and storage tank; and associated piping and instrumentation. The extracted vapors are treated by two 1,000-pound granular activated carbon (GAC) units placed in series prior to being discharged to the atmosphere. The SVE system is designed for each vapor extraction well to operate at an airflow rate of 16 to 17 cfm and at a vacuum pressure of 4 inches of mercury (Hg) at the wellhead. The locations of the SVE wells are shown on Figure 1-1.



VICINITY MAP
NOT TO SCALE



"CECIL FIELD"

N

SCALE: 1" = 30'

GRAPHIC SCALE
0 10 20 30 60 90 120

NOTES

1.) THE SPECIFIC PURPOSE OF THIS SURVEY IS TO GRAPHICALLY ILLUSTRATE THE LOCATION OF EXISTING WELLS AND IMPROVEMENTS ON SUBJECT SITE.

2.) THIS SURVEY IS NOT VALID WITHOUT THE SIGNATURE AND THE ORIGINAL RAISED SEAL OF A FLORIDA LICENSED SURVEYOR AND MAPPER.

3.) NORTH ARROW SHOWN HEREON IS BASED ON COORDINATES FURNISHED BY THE CLIENT.

4.) UNDERGROUND LINES SHOWN HEREON ARE AS PER CONTRACTOR AND WERE NOT VERIFIED BY THIS FIRM.

5.) REMEDIATION STRUCTURES NOTED AS FIELD MARKED BY OTHERS.

6.) THIS MAP IS NOT TO BE CONSTRUED AS A BOUNDARY SURVEY.

7.) THIS MAP DOES NOT DETERMINE OR REFLECT OWNERSHIP OF LOCATIONS.

LEGEND

AIR SPARGING WELL ASP 36" X 36" CONCRETE WITH A 24" X 24" METAL COVER
UNDERGROUND AIR SPARGING LINE
VAPOR EXTRACTION WELL VE21 36" X 36" CONCRETE WITH A 24" X 24" METAL COVER
UNDERGROUND VAPOR EXTRACTION LINE
FENCE
OVERHEAD LINE OHL
G.A. = GUY ANCHOR

Figure 1-1
AS/SVE/Groundwater Monitoring Well Location Map
103rd Street and A Avenue
Jet Fuel Transfer Pipeline
NAS Cecil Field
Jacksonville, Florida

CH2MHILL

A042001005ATL\Cecil Field 101.fh8

2.0 System Performance Monitoring

O&M checks of the system were performed daily for the first week of operation and weekly thereafter. System checks were performed daily during the first week of operation and monthly thereafter.

During an O&M check, a preventative maintenance checklist (based upon manufacturer's recommendations) is completed, and any required maintenance activity is performed. A system check consists of an O&M check and system performance monitoring, including reading of all meters and gauges and sample collection.

2.1 Operational Efficiencies

Air Sparging System		
	Period	**To Date**
Hours of Possible Operation	8952	8952
Hours of Actual Operation	5722	5722
Percent hours of Operation	63.9	63.9
Soil Vapor Extraction System		
Hours of Possible Operation	8952	8952
Hours of Actual Operation	7455	7455
Percent hours of Operation	83.3	83.3

2.2 Summary of Maintenance and System Downtime

2.2.1 Air Sparging System

During the period of May 23, 2000, to May 31, 2001, the air sparing system ran a total of 238.4 days out of a possible 373 days, resulting in 3,230 hours of down time. The air sparging system down time is detailed as follows:

- Down for total of 1129 hours due to high level in the SVE moisture separator holding tank. The air sparge compressor is electronically interlocked to shut down when the SVE system shuts down.
- Down for a total of 975 hours due to electrical problem in the air compressor control circuitry. The problem was corrected by replacing the defective motor starter for the air compressor motor and adjusting the compressor controls to cycle properly.
- Down for total of 724 hours due to electrical problem in air compressor cooling fan circuitry. The problem was corrected by replacing the defective motor starter for the cooling fan motor.
- Manually shut down for total of 161 hours for quarterly and annual groundwater sampling events.

- Down for 108 hours for air compressor high temperature alarm. Reset alarm and restart system.
- Manually shut down for total of 104 hours for monthly water level measurements.
- Manually shut down for total of 29 hours for routine maintenance.

2.2.2 SVE System

During the period of May 22, 2000, to May 31, 2001, the SVE system ran a total of 310.6 days out of a possible 373 days, resulting in 1,497 hours of down time. The SVE system down time is detailed as follows:

- Down for total of 1129 hours for high level in the moisture separator water storage tank. which resulted from water being drawn into the SVE wells during rain events. The water in the storage tank was removed for proper disposal and the system was restarted.
- Manually shut down for total of 161 hours for quarterly and annual groundwater sampling events.
- Manually shut down for total of 104 hours for water level measurements.
- Down for 91 hours to replace the silencer on the blower. The system was restarted.
- Manually shut down for total of 12 hour for routine maintenance.

2.3 Pressure/Flow Rate Monitoring

2.3.1 Air Sparge System

During the monitoring period, pressure was measured at each sparge wellhead on a monthly basis for the period of May 23, 2000, to May 31, 2001. The data are provided in Table 2-1.

During normal operation, the wellhead pressures for the shallow sparge wells averaged 9.4 psi, compared to the design pressure of 9 psi.

2.3.2 Vapor Extraction System

During the monitoring period, vacuum pressure and flow rate were measured at each vapor extraction wellhead on a monthly basis for the period of May 23, 2000 to May 31, 2001. The data from the flow and vacuum pressure measurement events are provided on Table 2-2.

During normal operation, the wellhead vacuum pressures for the vapor extraction wells averaged 14 inches of water column, compared to the design vacuum pressure of 54 inches of water column. The actual wellhead vacuum is maintained at a level that is less than the design wellhead vacuum in order to minimize the groundwater/rainwater drawn into the SVE wells due to the shallow water table and low lying topography. The average total flow rate for the SVE system was 544.6 standard cubic feet per minute (scfm) during the monitoring period, compared to the design flow rate of 350 scfm. The airflow rates averaged 25.9 scfm for each extraction well compared to the design extraction flow rate of 16 to 17 scfm per well.

2.4 Water Level Measurements

Depth to water measurements were recorded at selected monitoring wells on a monthly basis during the monitoring period. The results from the water level measurements are provided in Table 2-3.

Light non-aqueous phase liquid (LNAPL) was not noted in any monitoring well during the monitoring period.

TABLE 2-1
Air Sparging System - Sparge Well Measurements

AS Well	Date	Wellhead Flow (acfm)	Wellhead Pressure (psi)
AS-1	05/26/2000	NR	10
	06/02/2000	NR	11
	06/09/2000	0	9
	06/22/2000	0	0
	07/24/2000	NR	NR
	08/29/2000	NR	0
	10/30/2000	NR	8
	11/27/2000	NR	8
	12/18/2000	NR	8
	01/30/2001	NR	7
	02/26/2001	NR	10
	03/26/2001	NR	0
	04/30/2001	NR	0
	05/21/2001	NR	9
AS-2	05/26/2000	NR	11
	06/02/2000	NR	9
	06/09/2000	0	9
	06/22/2000	0	0
	07/24/2000	NR	NR
	08/29/2000	NR	0
	10/30/2000	NR	8
	11/27/2000	NR	8
	12/18/2000	NR	10
	01/30/2001	NR	8
	02/26/2001	NR	10
	03/26/2001	NR	0
	04/30/2001	NR	10
	05/21/2001	NR	10
AS-3	05/26/2000	NR	9
	06/02/2000	NR	9
	06/09/2000	0	9
	06/22/2000	0	10
	07/24/2000	NR	10
	08/29/2000	NR	11
	10/30/2000	NR	11
	11/27/2000	NR	10
	12/18/2000	NR	10
	01/30/2001	NR	8
	02/26/2001	NR	11
	03/26/2001	NR	12
	04/30/2001	NR	11
	05/21/2001	NR	10

TABLE 2-1 CONTINUED
Air Sparging System - Sparge Well Measurements

AS Well	Date	Wellhead Flow (acfm)	Wellhead Pressure (psi)
AS-4	05/26/2000	NR	11
	06/02/2000	NR	10
	06/09/2000	0	9
	06/22/2000	0	10
	07/24/2000	NR	NR
	08/29/2000	NR	11
	10/30/2000	NR	9
	11/27/2000	NR	12
	12/18/2000	NR	10
	01/30/2001	NR	6
	02/26/2001	NR	10
	03/26/2001	NR	12
	04/30/2001	NR	11
	05/21/2001	NR	9
AS-5	05/26/2000	NR	14
	06/02/2000	NR	9
	06/09/2000	0	9
	06/22/2000	0	11
	07/24/2000	NR	12
	08/29/2000	NR	11
	10/30/2000	NR	8
	11/27/2000	NR	12
	12/18/2000	NR	9
	01/30/2001	NR	7
	02/26/2001	NR	10
	03/26/2001	NR	14
	04/30/2001	NR	8
	05/21/2001	NR	12
AS-6	05/26/2000	NR	10
	06/02/2000	NR	9
	06/09/2000	0	9
	06/22/2000	0	8
	07/24/2000	NR	13
	08/29/2000	NR	8
	10/30/2000	NR	9
	11/27/2000	NR	10
	12/18/2000	NR	8
	01/30/2001	NR	10
	02/26/2001	NR	12
	03/26/2001	NR	9
	04/30/2001	NR	10
	05/21/2001	NR	10

TABLE 2-1 CONTINUED
Air Sparging System - Sparge Well Measurements

AS Well	Date	Wellhead Flow (acfm)	Wellhead Pressure (psi)
AS-7	05/26/2000	NR	9
	06/02/2000	NR	9
	06/09/2000	0	9
	06/22/2000	0	10
	07/24/2000	NR	14
	08/29/2000	NR	8
	10/30/2000	NR	8
	11/27/2000	NR	12
	12/18/2000	NR	10
	01/30/2001	NR	10
	02/26/2001	NR	12
	03/26/2001	NR	10
	04/30/2001	NR	10
	05/21/2001	NR	10
AS-8	05/26/2000	NR	9
	06/02/2000	NR	9
	06/09/2000	0	11
	06/22/2000	0	8
	07/24/2000	NR	10
	08/29/2000	NR	9
	10/30/2000	NR	9
	11/27/2000	NR	12
	12/18/2000	NR	14
	01/30/2001	NR	7
	02/26/2001	NR	12
	03/26/2001	NR	10
	04/30/2001	NR	10
	05/21/2001	NR	8
AS-9	05/26/2000	NR	11
	06/02/2000	NR	10
	06/09/2000	0	10
	06/22/2000	0	8
	07/24/2000	NR	11
	08/29/2000	NR	NR
	10/30/2000	NR	8
	11/27/2000	NR	10
	12/18/2000	NR	10
	01/30/2001	NR	7
	02/26/2001	NR	10
	03/26/2001	NR	10
	04/30/2001	NR	9
	05/21/2001	NR	10

TABLE 2-1 CONTINUED
Air Sparging System - Sparge Well Measurements

AS Well	Date	Wellhead Flow (acfm)	Wellhead Pressure (psi)
AS-10	05/26/2000	NR	9
	06/02/2000	NR	9
	06/09/2000	0	12
	06/22/2000	0	8
	07/24/2000	NR	13
	08/29/2000	NR	NR
	10/30/2000	NR	8
	11/27/2000	NR	10
	12/18/2000	NR	14
	01/30/2001	NR	8
	02/26/2001	NR	10
	03/26/2001	NR	14
	04/30/2001	NR	9
	05/21/2001	NR	9
AS-11	05/26/2000	NR	11
	06/02/2000	NR	9
	06/09/2000	0	9
	06/22/2000	0	9
	07/24/2000	NR	11
	08/29/2000	NR	11
	10/30/2000	NR	10
	11/27/2000	NR	12
	12/18/2000	NR	11
	01/30/2001	NR	10
	02/26/2001	NR	9
	03/26/2001	NR	10
	04/30/2001	NR	11
	05/21/2001	NR	11
AS-12	05/26/2000	NR	11
	06/02/2000	NR	7
	06/09/2000	0	10
	06/22/2000	0	9.5
	07/24/2000	NR	12
	08/29/2000	NR	8
	10/30/2000	NR	9
	11/27/2000	NR	12
	12/18/2000	NR	12
	01/30/2001	NR	8
	02/26/2001	NR	11
	03/26/2001	NR	14
	04/30/2001	NR	8
	05/21/2001	NR	9

TABLE 2-1 CONTINUED
Air Sparging System - Sparge Well Measurements

AS Well	Date	Wellhead Flow (acfm)	Wellhead Pressure (psi)
AS-13	05/26/2000	NR	10
	06/02/2000	NR	9
	06/09/2000	0	10
	06/22/2000	0	9
	07/24/2000	NR	10.5
	08/29/2000	NR	8
	10/30/2000	NR	11
	11/27/2000	NR	10
	12/18/2000	NR	10
	01/30/2001	NR	8
	02/26/2001	NR	11
	03/26/2001	NR	8
	04/30/2001	NR	10
	05/21/2001	NR	9
AS-14	05/26/2000	NR	9
	06/02/2000	NR	9
	06/09/2000	0	9
	06/22/2000	0	8
	07/24/2000	NR	12
	08/29/2000	NR	8
	10/30/2000	NR	10
	11/27/2000	NR	12
	12/18/2000	NR	12
	01/30/2001	NR	7
	02/26/2001	NR	10
	03/26/2001	NR	12
	04/30/2001	NR	8
	05/21/2001	NR	10
AS-15	05/26/2000	NR	11
	06/02/2000	NR	9
	06/09/2000	0	11
	06/22/2000	0	8.5
	07/24/2000	NR	11
	08/29/2000	NR	15
	10/30/2000	NR	8
	11/27/2000	NR	10
	12/18/2000	NR	8
	01/30/2001	NR	6
	02/26/2001	NR	12
	03/26/2001	NR	14
	04/30/2001	NR	10
	05/21/2001	NR	9

TABLE 2-1 CONTINUED
Air Sparging System - Sparge Well Measurements

AS Well	Date	Wellhead Flow (acfm)	Wellhead Pressure (psi)
AS-16	05/26/2000	NR	11
	06/02/2000	NR	10
	06/09/2000	0	10
	06/22/2000	0	10
	07/24/2000	NR	NR
	08/29/2000	NR	10
	10/30/2000	NR	10
	11/27/2000	NR	10
	12/18/2000	NR	10
	01/30/2001	NR	6
	02/26/2001	NR	10
	03/26/2001	NR	10
	04/30/2001	NR	10
	05/21/2001	NR	8
AS-17	05/26/2000	NR	9
	06/02/2000	NR	10
	06/09/2000	0	10
	06/22/2000	0	10
	07/24/2000	NR	NR
	08/29/2000	NR	10
	10/30/2000	NR	10
	11/27/2000	NR	8
	12/18/2000	NR	10
	01/30/2001	NR	7
	02/26/2001	NR	10
	03/26/2001	NR	9
	04/30/2001	NR	10
	05/21/2001	NR	10
AS-18	05/26/2000	NR	11
	06/02/2000	NR	9
	06/09/2000	0	10
	06/22/2000	0	10
	07/24/2000	NR	NR
	08/29/2000	NR	0
	10/30/2000	NR	10
	11/27/2000	NR	12
	12/18/2000	NR	10
	01/30/2001	NR	7
	02/26/2001	NR	12
	03/26/2001	NR	11
	04/30/2001	NR	12
	05/21/2001	NR	11

TABLE 2-1 CONTINUED
Air Sparging System - Sparge Well Measurements

AS Well	Date	Wellhead Flow (acfm)	Wellhead Pressure (psi)
AS-19	05/26/2000	NR	11
	06/02/2000	NR	9
	06/09/2000	0	10
	06/22/2000	0	10
	07/24/2000	NR	14
	08/29/2000	NR	8
	10/30/2000	NR	8
	11/27/2000	NR	12
	12/18/2000	NR	10
	01/30/2001	NR	8
	02/26/2001	NR	8
	03/26/2001	NR	8
	04/30/2001	NR	8
	05/21/2001	NR	8
AS-20	05/26/2000	NR	11
	06/02/2000	NR	11
	06/09/2000	0	10
	06/22/2000	0	8
	07/24/2000	NR	12
	08/29/2000	NR	4
	10/30/2000	NR	2
	11/27/2000	NR	10
	12/18/2000	NR	10
	01/30/2001	NR	8
	02/26/2001	NR	0
	03/26/2001	NR	0
	04/30/2001	NR	NR
	05/21/2001	NR	8

NR = not measured
psi = pounds per square inch
acfm = actual cubic feet per minute

TABLE 2-2
SVE System - Extraction Well Measurements

SVE Well	Date	Wellhead Vacuum (in H_2O)	Wellhead Flow (scfm)
VEW-1	05/26/2000	NM	62.9
	06/02/2000	NM	0.0
	06/09/2000	NM	28.1
	06/22/2000	23	28.1
	07/24/2000	25	34.5
	08/29/2000	0	28.1
	10/30/2000	6	19.9
	11/27/2000	16	21.8
	12/18/2000	5	12.6
	01/30/2001	0	0.0
	02/26/2001	40	34.5
	03/26/2001	12	19.9
	04/30/2001	16	44.5
	05/21/2001	18	39.8
VEW-2	05/26/2000	NM	62.9
	06/02/2000	NM	62.9
	06/09/2000	NM	28.1
	06/22/2000	24	19.9
	07/24/2000	8	19.9
	08/29/2000	8	19.9
	10/30/2000	8	44.5
	11/27/2000	2	19.9
	12/18/2000	7	15.4
	01/30/2001	0	0.0
	02/26/2001	41	19.9
	03/26/2001	15	28.1
	04/30/2001	15	34.5
	05/21/2001	23	19.9
VEW-3	05/26/2000	NM	62.9
	06/02/2000	NM	12.6
	06/09/2000	NM	62.9
	06/22/2000	22	62.9
	07/24/2000	26	48.7
	08/29/2000	12	19.9
	10/30/2000	2	19.9
	11/27/2000	2	8.9
	12/18/2000	2	19.9
	01/30/2001	0	25.2
	02/26/2001	40	39.8
	03/26/2001	10	28.1
	04/30/2001	14	28.1
	05/21/2001	18	34.5

TABLE 2-2 CONTINUED
SVE System - Extraction Well Measurements

SVE Well	Date	Wellhead Vacuum (in H_2O)	Wellhead Flow (scfm)
VEW-4	05/26/2000	NM	28.1
	06/02/2000	NM	28.1
	06/09/2000	NM	28.1
	06/22/2000	25	8.9
	07/24/2000	29	56.2
	08/29/2000	12	28.1
	10/30/2000	12	34.5
	11/27/2000	8	23.5
	12/18/2000	6	15.4
	01/30/2001	0	0.0
	02/26/2001	43	19.9
	03/26/2001	20	39.8
	04/30/2001	15	34.5
	05/21/2001	21	19.9
VEW-5	05/26/2000	NM	52.6
	06/02/2000	NM	12.6
	06/09/2000	NM	62.9
	06/22/2000	23	34.5
	07/24/2000	25	39.8
	08/29/2000	12	19.9
	10/30/2000	0	52.6
	11/27/2000	2	8.9
	12/18/2000	4	12.6
	01/30/2001	0	0.0
	02/26/2001	30	28.1
	03/26/2001	15	28.1
	04/30/2001	14	28.1
	05/21/2001	18	28.1
VEW-6	05/26/2000	NM	39.8
	06/02/2000	NM	62.9
	06/09/2000	NM	62.9
	06/22/2000	22	84.3
	07/24/2000	25	34.5
	08/29/2000	14	34.5
	10/30/2000	12	34.5
	11/27/2000	2	19.9
	12/18/2000	5	15.4
	01/30/2001	0	0.0
	02/26/2001	38	19.9
	03/26/2001	18	19.9
	04/30/2001	15	34.5
	05/21/2001	22	28.1

TABLE 2-2 CONTINUED
SVE System - Extraction Well Measurements

SVE Well	Date	Wellhead Vacuum (in H_2O)	Wellhead Flow (scfm)
VEW-7	05/26/2000	NM	28.1
	06/02/2000	NM	12.6
	06/09/2000	NM	28.1
	06/22/2000	23	19.9
	07/24/2000	26	28.1
	08/29/2000	14	19.9
	10/30/2000	0	44.5
	11/27/2000	1	8.9
	12/18/2000	5	21.8
	01/30/2001	0	0.0
	02/26/2001	20	19.9
	03/26/2001	20	34.5
	04/30/2001	14	28.1
	05/21/2001	22	28.1
VEW-8	05/26/2000	NM	62.9
	06/02/2000	NM	28.1
	06/09/2000	24	39.8
	06/22/2000	22	28.1
	07/24/2000	24	19.9
	08/29/2000	13	125.3
	10/30/2000	12	34.5
	11/27/2000	3	28.1
	12/18/2000	5	17.8
	01/30/2001	0	0.0
	02/26/2001	35	19.9
	03/26/2001	17	19.9
	04/30/2001	14	28.1
	05/21/2001	20	28.1
VEW-9	05/26/2000	NM	19.9
	06/02/2000	NM	12.6
	06/09/2000	24	39.8
	06/22/2000	21	19.9
	07/24/2000	25	19.9
	08/29/2000	5	28.1
	10/30/2000	4	28.1
	11/27/2000	3	12.6
	12/18/2000	4	26.7
	01/30/2001	0	17.8
	02/26/2001	12	19.9
	03/26/2001	20	19.9
	04/30/2001	17	34.5
	05/21/2001	21	28.1

TABLE 2-2 CONTINUED
SVE System - Extraction Well Measurements

SVE Well	Date	Wellhead Vacuum (in H_2O)	Wellhead Flow (scfm)
VEW-10	05/26/2000	NM	28.1
	06/02/2000	NM	62.9
	06/09/2000	24	32.1
	06/22/2000	23	28.1
	07/24/2000	28	19.9
	08/29/2000	11	39.8
	10/30/2000	13	28.1
	11/27/2000	5	28.1
	12/18/2000	5	12.6
	01/30/2001	0	0.0
	02/26/2001	32	19.9
	03/26/2001	20	28.1
	04/30/2001	17	34.5
	05/21/2001	21	19.9
VEW-11	05/26/2000	NM	28.1
	06/02/2000	NM	28.1
	06/09/2000	24	19.9
	06/22/2000	21	19.9
	07/24/2000	24	28.1
	08/29/2000	14	28.1
	10/30/2000	0	44.5
	11/27/2000	2	15.4
	12/18/2000	4	12.6
	01/30/2001	0	12.6
	02/26/2001	11	19.9
	03/26/2001	20	28.1
	04/30/2001	14	34.5
	05/21/2001	21	28.1
VEW-12	05/26/2000	NM	44.5
	06/02/2000	NM	19.9
	06/09/2000	24	25.2
	06/22/2000	22	19.9
	07/24/2000	25	19.9
	08/29/2000	14	19.9
	10/30/2000	10	19.9
	11/27/2000	2	12.6
	12/18/2000	4	8.9
	01/30/2001	0	12.6
	02/26/2001	32	19.9
	03/26/2001	20	28.1
	04/30/2001	16	19.9
	05/21/2001	20	28.1

TABLE 2-2 CONTINUED
SVE System - Extraction Well Measurements

SVE Well	Date	Wellhead Vacuum (in H_2O)	Wellhead Flow (scfm)
VEW-13	05/26/2000	NM	34.5
	06/02/2000	NM	34.5
	06/09/2000	24	12.6
	06/22/2000	22	19.9
	07/24/2000	26	34.5
	08/29/2000	13	19.9
	10/30/2000	0	19.9
	11/27/2000	1	8.9
	12/18/2000	5	17.8
	01/30/2001	0	0.0
	02/26/2001	12	19.9
	03/26/2001	25	34.5
	04/30/2001	12	28.1
	05/21/2001	22	28.1
VEW-14	05/26/2000	NM	19.9
	06/02/2000	NM	62.9
	06/09/2000	24	15.4
	06/22/2000	20	19.9
	07/24/2000	25	28.1
	08/29/2000	14	19.9
	10/30/2000	0	19.9
	11/27/2000	2	15.4
	12/18/2000	4	17.8
	01/30/2001	0	0.0
	02/26/2001	25	19.9
	03/26/2001	20	34.5
	04/30/2001	14	28.1
	05/21/2001	21	19.9
VEW-15	05/26/2000	NM	12.6
	06/02/2000	NM	19.9
	06/09/2000	24	28.1
	06/22/2000	24	28.1
	07/24/2000	27	19.9
	08/29/2000	14	34.5
	10/30/2000	0	19.9
	11/27/2000	5	15.4
	12/18/2000	5	12.6
	01/30/2001	0	0.0
	02/26/2001	13	19.9
	03/26/2001	20	44.5
	04/30/2001	16	28.1
	05/21/2001	20	28.1

TABLE 2-2 CONTINUED
SVE System - Extraction Well Measurements

SVE Well	Date	Wellhead Vacuum (in H_2O)	Wellhead Flow (scfm)
VEW-16	05/26/2000	NM	28.1
	06/02/2000	NM	19.9
	06/09/2000	20	19.9
	06/22/2000	20	34.5
	07/24/2000	23	39.8
	08/29/2000	13	19.9
	10/30/2000	0	39.8
	11/27/2000	4	25.2
	12/18/2000	2	12.6
	01/30/2001	0	0.0
	02/26/2001	22	28.1
	03/26/2001	18	28.1
	04/30/2001	14	28.1
	05/21/2001	21	19.9
VEW-17	05/26/2000	NM	62.9
	06/02/2000	NM	28.1
	06/09/2000	24	37.7
	06/22/2000	22	21.8
	07/24/2000	26	28.1
	08/29/2000	14	28.1
	10/30/2000	0	19.9
	11/27/2000	0	8.9
	12/18/2000	2	8.9
	01/30/2001	2	0.0
	02/26/2001	0	19.9
	03/26/2001	20	34.5
	04/30/2001	16	28.1
	05/21/2001	21	28.1
VEW-18	05/26/2000	NM	34.5
	06/02/2000	NM	28.1
	06/09/2000	23	39.8
	06/22/2000	23	12.6
	07/24/2000	24	28.1
	08/29/2000	13	28.1
	10/30/2000	0	19.9
	11/27/2000	3	12.6
	12/18/2000	2	21.8
	01/30/2001	0	12.6
	02/26/2001	20	19.9
	03/26/2001	20	28.1
	04/30/2001	14	34.5
	05/21/2001	20	19.9

TABLE 2-2 CONTINUED
SVE System - Extraction Well Measurements

SVE Well	Date	Wellhead Vacuum (in H_2O)	Wellhead Flow (scfm)
VEW-19	05/26/2000	NM	19.9
	06/02/2000	NM	19.9
	06/09/2000	22	25.2
	06/22/2000	21	12.6
	07/24/2000	25	28.1
	08/29/2000	15	19.9
	10/30/2000	0	28.1
	11/27/2000	2	15.4
	12/18/2000	4	12.6
	01/30/2001	0	0.0
	02/26/2001	15	19.9
	03/26/2001	20	28.1
	04/30/2001	14	28.1
	05/21/2001	21	19.9
VEW-20	05/26/2000	NM	12.6
	06/02/2000	NM	62.9
	06/09/2000	23	62.9
	06/22/2000	20	19.9
	07/24/2000	23	28.1
	08/29/2000	12	28.1
	10/30/2000	0	34.5
	11/27/2000	3	19.9
	12/18/2000	5	17.8
	01/30/2001	0	17.8
	02/26/2001	18	19.9
	03/26/2001	20	44.5
	04/30/2001	16	34.5
	05/21/2001	21	19.9
VEW-21	05/26/2000	NM	12.6
	06/02/2000	NM	12.6
	06/09/2000	20	19.9
	06/22/2000	20	12.6
	07/24/2000	25	19.9
	08/29/2000	10	19.9
	10/30/2000	0	19.9
	11/27/2000	3	15.4
	12/18/2000	4	25.2
	01/30/2001	0	12.6
	02/26/2001	16	19.9
	03/26/2001	20	28.1
	04/30/2001	15	28.1
	05/21/2001	20	19.9

NM = not measured
in H_2O = inches of water column
scfm = standard cubic feet per minute

TABLE 2-3
Groundwater Monitoring Well -Water Level and Free Product Data

Well Identification	Well Total Depth (feet below ground surface)	Date	Depth to Product (feet below top of casing)	Depth to Water (feet below top of casing)	Product Thickness (feet)
CEF-103-SMW-01	13.00	08/30/2000	no product	4.56	0.00
		09/28/2000	no product	3.07	0.00
		10/31/2000	no product	4.19	0.00
		11/27/2000	NM	NM	NM
		12/20/2000	no product	5.38	0.00
		02/27/2001	no product	5.10	0.00
		03/27/2001	no product	3.54	0.00
		04/30/2001	no product	4.82	0.00
		05/22/2001	no product	5.57	0.00
CEF-103-SMW-02	13.25	08/30/2000	4.99	5.00	0.01
		09/28/2000	no product	4.05	0.00
		10/31/2000	no product	5.50	0.00
		11/27/2000	NM	NM	NM
		12/20/2000	no product	6.53	0.00
		02/27/2001	no product	6.89	0.00
		03/27/2001	no product	4.81	0.00
		04/30/2001	no product	6.59	0.00
		05/22/2001	no product	7.56	0.00
CEF-103-SMW-03	12.60	08/30/2000	NM	NM	NM
		09/28/2000	no product	12.60	0.00
		10/31/2000	no product	12.14	0.00
		11/27/2000	NM	NM	NM
		12/20/2000	no product	8.67	0.00
		02/27/2001	no product	9.63	0.00
		03/27/2001	no product	4.97	0.00
		04/30/2001	no product	NM	0.00
		05/22/2001	no product	10.90	0.00
CEF-103-SMW-04	12.66	08/30/2000	NM	NM	NM
		09/28/2000	NM	NM	NM
		10/31/2000	no product	6.46	0.00
		11/27/2000	NM	NM	NM
		12/20/2000	no product	6.75	0.00
		02/27/2001	no product	7.02	0.00
		03/27/2001	no product	4.41	0.00
		04/30/2001	no product	5.88	0.00
		05/22/2001	no product	8.45	0.00

TABLE 2-3 CONTINUED
Groundwater Monitoring Well –Water Level and Free Product Data

Well Identification	Well Total Depth (feet below ground surface)	Date	Depth to Product (feet below top of casing)	Depth to Water (feet below top of casing)	Product Thickness (feet)
CEF-103-SMW-05	13.26	08/30/2000	no product	5.52	0.00
		09/28/2000	NM	NM	NM
		10/31/2000	no product	5.87	0.00
		11/27/2000	NM	NM	NM
		12/20/2000	no product	6.47	0.00
		02/27/2001	no product	6.24	0.00
		03/27/2001	no product	3.98	0.00
		04/30/2001	no product	4.61	0.00
		05/22/2001	no product	6.72	0.00
CEF-103-SMW-06	13.18	08/30/2000	NM	NM	NM
		09/28/2000	NM	NM	NM
		10/31/2000	no product	8.26	0.00
		11/27/2000	no product	0.00	0.00
		12/20/2000	no product	3.15	0.00
		02/27/2001	no product	5.23	0.00
		03/27/2001	no product	0.50	0.00
		04/30/2001	no product	2.78	0.00
		05/22/2001	no product	6.59	0.00
CEF-103-SMW-07	13.29	08/30/2000	7.62	7.63	0.01
		09/28/2000	no product	7.91	0.00
		10/31/2000	no product	8.10	0.00
		11/27/2000	no product	3.10	0.00
		12/20/2000	no product	5.60	0.00
		02/27/2001	no product	6.51	0.00
		03/27/2001	no product	2.16	0.00
		04/30/2001	no product	3.12	0.00
		05/22/2001	no product	7.89	0.00
CEF-103-SMW-08	18.23	08/30/2000	no product	2.53	0.00
		09/28/2000	NM	NM	NM
		10/31/2000	no product	3.28	0.00
		11/27/2000	no product	2.95	0.00
		12/20/2000	no product	4.04	0.00
		02/27/2001	no product	4.48	0.00
		03/27/2001	no product	2.22	0.00
		04/30/2001	no product	3.67	0.00
		05/22/2001	no product	5.70	0.00

TABLE 2-3 CONTINUED
Groundwater Monitoring Well –Water Level and Free Product Data

Well Identification	Well Total Depth (feet below ground surface)	Date	Depth to Product (feet below top of casing)	Depth to Water (feet below top of casing)	Product Thickness (feet)
CEF-103-SMW-09	13.24	08/30/2000	no product	4.56	0.00
		09/28/2000	NM	NM	NM
		10/31/2000	no product	4.65	0.00
		11/27/2000	no product	2.99	0.00
		12/20/2000	no product	4.55	0.00
		02/27/2001	no product	5.13	0.00
		03/27/2001	no product	2.70	0.00
		04/30/2001	no product	4.68	0.00
		05/22/2001	no product	7.15	0.00
CEF-103-SMW-10	11.63	08/30/2000	NM	NM	NM
		09/28/2000	no product	0.45	0.00
		10/31/2000	no product	2.35	0.00
		11/27/2000	no product	1.05	0.00
		12/20/2000	no product	2.11	0.00
		02/27/2001	no product	2.95	0.00
		03/27/2001	no product	0.50	0.00
		04/30/2001	no product	3.27	0.00
		05/22/2001	no product	4.89	0.00
CEF-103-SMW-11	16.10	08/30/2000	no product	5.55	0.00
		09/28/2000	no product	4.60	0.00
		10/31/2000	no product	6.06	0.00
		11/27/2000	NM	NM	NM
		12/20/2000	no product	6.78	0.00
		02/27/2001	no product	7.14	0.00
		03/27/2001	no product	5.02	0.00
		04/30/2001	no product	NM	0.00
		05/22/2001	no product	7.64	0.00
CEF-103-SMW-12	12.80	08/30/2000	6.50	6.51	0.01
		09/28/2000	NM	NM	NM
		10/31/2000	no product	6.51	0.00
		11/27/2000	NM	NM	NM
		12/20/2000	no product	6.28	0.00
		02/27/2001	no product	6.93	0.00
		03/27/2001	no product	3.84	0.00
		04/30/2001	no product	5.34	0.00
		05/22/2001	no product	8.26	0.00

TABLE 2-3 CONTINUED
Groundwater Monitoring Well -Water Level and Free Product Data

Well Identification	Well Total Depth (feet below ground surface)	Date	Depth to Product (feet below top of casing)	Depth to Water (feet below top of casing)	Product Thickness (feet)
CEF-103-DMW-01	38.75	08/30/2000	no product	6.96	0.00
		09/28/2000	NM	NM	NM
		10/31/2000	no product	7.06	0.00
		11/27/2000	NM	NM	NM
		12/20/2000	no product	6.96	0.00
		02/27/2001	no product	7.92	0.00
		03/27/2001	no product	5.37	0.00
		04/30/2001	no product	8.18	0.00
		05/22/2001	no product	9.62	0.00

NM = not measured

3.0 Summary of Sampling and Laboratory Analytical Results

3.1 Vapor Monitoring

GAC units were used to treat the SVE effluent air before discharge to the atmosphere. The GACs were removed on February 8, 2001 because the effluent VOC concentration was less than the FDEP treatment requirement of 13.7 pounds per day. Prior to GAC removal, the GAC influent, mid-fluent and effluent were sampled monthly for analyses by U.S. Environmental Protection Agency (EPA) Method 18, TO-14. After GAC removal, the SVE effluent was sampled monthly for analysis by EPA Method 18, TO-14. Copies of the analytical laboratory reports from the air sampling events are provided in Appendix B, and analytical results are summarized in Tables 3-1, 3-2, and 3-3. The pounds per day loading (air emission) rate summary is provided in Table 3-4.

Based upon an average pounds per day VOC removal rate and an on-stream time of 310.6 days, a total of 6.1 pounds of VOCs were removed from the subsurface during the monitoring period via volatilization. It should be noted that this calculation does not take into account the reductions that were a result of biodegradation of the contaminants in the groundwater.

3.2 Groundwater Monitoring

Monitoring wells CEF-103-SMW-01, CEF-103-SMW-02, CEF-103-SMW-03, CEF-103-SMW-07, CEF-103-SMW-10, and CEF-103-SMW-11 were sampled for VOCs, semivolatile organic compounds (SVOCs), lead, and total recoverable petroleum hydrocarbon (TRPH) on a quarterly basis during the monitoring period. Monitoring wells CEF-103-SMW-04, CEF-103-SMW-05, CEF-103-SMW-06, CEF-103-SMW-08, CEF-103-SMW-09, CEF-103-SMW-12, and CEF-103-DMW-01 were only sampled during the annual sampling event performed on May 20, 2001. The annual sampling event includes 12 shallow monitoring wells (11 to 18 feet below ground surface) and 1 deep monitoring well (38.75 feet bls). The deep well and 11 of the 12 shallow monitoring wells exhibited significant decreases in contaminant concentrations from the baseline groundwater sampling event that was performed on March 20 2000, prior to system start up. The deep monitoring well and 11 shallow monitoring wells exhibited concentrations below groundwater cleanup target levels (GCTLs) for all constituents. The twelfth monitoring well, CEF-103-SMW-11, is the eastern most monitoring well; it is located outside the treatment zone of the air sparge system. This well has exhibited decreases in contaminant concentrations but the levels are still above the GCTLs for trimethylbenzenes, isopropylbenzene, naphthalene, and total xylenes. A site map showing the locations of the monitoring wells are shown on Figure 1-1. Copies of the analytical laboratory reports from the groundwater sampling events are provided in Appendix C, and analytical results are summarized in Table 3-5.

Dissolved oxygen (DO) measurements were recorded during sampling of the monitoring wells. The results indicate that the DO concentrations in the monitoring wells located within the treatment zone were elevated as a result of remediation system operation. It should be noted that the DO concentration in monitor well CEF-103-SMW-11 is not elevated indicating that it is not affected by the remediation system. The results from the DO measurement events are summarized in Table 3-6.

TABLE 3-1

SVE System - Pre-Treatment Vapor Analytical Results

Compound (µg/m^3)	5/16/00	5/26/00	6/2/00	6/9/00	6/27/00	07/24/00	08/15/00	09/18/00	10/18/00	11/13/00	12/11/00	01/17/01
1,1,1-Trichloroethane	<43	<8.6	<8.6	<8.6	<8.6	<5.456	<21.82	<2.728	<3.432	<3.432	<3.432	<3.432
1,1,2,2-Tetrachloroethane	<54	<11	<11	<11	<11	<6.865	<27.46	<3.432	<3.432	<3.432	<3.432	<3.432
1,1,2-Trichloroethane	<43	<8.6	<8.6	<8.6	<8.6	<5.456	<21.82	<2.728	<2.728	<2.728	<2.728	<3.432
1,1,2-Trichloro-1,2,2-trifluoroethane	NA	NA	NA	NA	NA	<7.663	<30.65	<3.831	NA	NA	NA	NA
1,1-Dichloroethane	<32	<6.4	<6.4	<6.4	<6.4	<4.047	<16.19	<2.023	<2.728	<2.728	<2.728	<3.432
1,1-Dichloroethene	<31	<6.3	<6.3	<6.3	<6.3	<3.965	<15.86	<1.982	<2.728	<2.728	NA	NA
1,2,4-Trichlorobenzene	<59	<12	<12	<12	<12	<7.421	<29.68	<3.710	NA	NA	NA	NA
1,2,4-Trimethylbenzene	5100.00	1030.00	1230.00	1230.00	1000.00	<4.915	<19.66	<2.457	NA	NA	NA	NA
1,2-Dibromoethane	<61	<12	<12	<12	<12	<7.684	<30.73	<3.842	NA	NA	NA	NA
1,2-Dichloroethane	<32	<6.4	<6.4	<6.4	<6.4	<4.047	<16.18	<2.023	<2.728	<2.728	<2.728	<3.432
1,2-Dichlorobenzene	NA	NA	NA	NA	NA	<6.012	<24.05	<3.006	<2.728	<2.728	<2.728	<3.432
1,3-Dichlorobenzene	NA	NA	NA	NA	NA	<6.012	<24.05	<3.006	<2.728	<2.728	<2.728	<3.432
1,4-Dichlorobenzene	NA	NA	NA	NA	NA	<6.012	<24.05	<3.006	<2.728	<2.728	<2.728	<3.432
1,2-Dichloropropane	<37	<7.3	<7.3	<7.3	<7.3	<4.621	<18.48	<2.310	<2.728	<2.728	<2.728	<3.432
1,3,5-Trimethylbenzene	1430.00	320.00	396.00	396.00	352.00	<4.915	<19.66	<2.457	NA	NA	NA	NA
2-Chlorotoluene	NA	NA	NA	NA	NA	<5.177	<20.71	<2.588	NA	NA	NA	NA
4-Ethyltoluene	1480.00	368.00	364.00	364.00	282.00	<4.952	<19.81	<2.476	NA	NA	NA	NA
Alpha-Chlorotoluene	NA	NA	NA	NA	NA	<5.668	<22.67	<2.834	NA	NA	NA	NA
Benzene	24.00	4.50	<5.1	<5.1	1.10	<3.194	<12.77	<1.597	NA	NA	<2.728	5.08
Bromoform	NA	NA	NA	NA	NA	<10.33	<41.34	<5.168	NA	NA	NA	NA
Bromomethane	<31	<6.2	<6.2	<6.2	<6.2	<3.883	<15.53	<1.941	<2.728	<2.728	<2.728	<3.432
Bromodichloromethane	NA	NA	NA	NA	NA	<6.699	<26.79	<3.349	<2.728	<2.728	NA	NA
Carbon Disulfide	NA	NA	NA	NA	NA	<3.113	<12.45	<1.556	NA	NA	NA	NA
Carbon Tetrachloride	<50	<9.9	<9.9	<9.9	<9.9	<6.292	<25.16	<3.146	<2.728	<2.728	<2.728	<3.432
Chlorobenzene	<37	<7.3	<7.3	<7.3	<7.3	<4.603	<18.41	<2.301	<2.728	<2.728	<2.728	<3.432
Chloroethane	<21	<4.2	<4.2	<4.2	<4.2	<2.638	<10.55	<1.319	<2.728	<2.728	<2.728	<3.432
Chloroform	<39	<7.7	<7.7	<7.7	<7.7	<4.883	<19.53	<2.441	<2.728	<2.728	4.47	<3.432
Chloromethane	<16	<3.3	<3.3	<3.3	<3.3	<2.065	<8.260	<1.032	<2.728	<2.728	<2.728	<3.432
cis-1,2-Dichloroethene	<31	<6.3	<6.3	<6.3	<6.3	<3.965	<15.86	<1.982	<2.728	<2.728	<2.728	<3.432
cis-1,3-Dichloropropene	<36	<7.2	<7.2	<7.2	<7.2	<4.539	<18.15	<2.269	<2.728	<2.728	<2.728	<3.432
Dibromochloromethane	NA	NA	NA	NA	NA	<3.524	<14.09	<1.762	<2.728	<2.728	NA	NA
Dichlorodifluoromethane	<39	<7.8	<7.8	<7.8	3.50	<4.945	<19.78	<2.472	NA	NA	NA	NA
Dichlorotetrafluoroethane	NA	NA	NA	NA	NA	<6.991	<27.96	<3.495	NA	NA	NA	NA
Ethylbenzene	1260.00	415.00	348.00	348.00	222.00	269.20	19.10	<2.170	<2.728	<2.728	<2.728	<3.432
Freon 113	1280.00	31.00	<12	<12	47.00	<7.663	<30.65	<3.831	NA	NA	NA	NA
Freon 114	<56	<11	<11	<11	<11	<6.990	<27.96	<3.495	NA	NA	NA	NA
Hexachlorobutadiene	<85	<17	<17	<17	<17	<10.66	<42.66	<5.332	NA	NA	NA	NA
Hexane	NA	NA	NA	NA	NA	<3.524	<14.09	<1.762	NA	NA	NA	NA
m-Dichlorobenzene	<48	<9.6	<9.6	<9.6	<9.6	NA	NA	NA	NA	NA	NA	NA

TABLE 3-1 (CONTINUED)

SVE System - Pre-Treatment Vapor Analytical Results

Compound (µg/m^3)	5/16/00	5/26/00	6/2/00	6/9/00	6/27/00	03/02/00	01/04/00	<0.5	<0.50	<0.50	<0.5	<0.5
m,p-Xylene	2840.00	1080.00	967.00	967.00	772.00	998.64	95.52	<2.170	<2.728	4.64	<2.728	10.30
o-Dichlorobenzene	<48	<9.6	<9.6	<9.6	<9.6	NA	NA	NA	NA	NA	NA	NA
p-Dichlorobenzene	<48	<9.6	<9.6	<9.6	<9.6	NA	NA	NA	NA	NA	NA	NA
Methyl Tert Butyl Ether	<29	<5.8	<5.8	<5.8	<5.8	<3.605	<14.42	<1.802	<2.728	<2.728	NA	NA
Methylene Chloride	81.40	<5.5	<5.5	<5.5	5.50	<3.474	17.02	<1.737	5.13	<2.728	<2.728	6.66
o-Xylene	207.00	83.20	215.00	215.00	198.00	273.54	39.51	<2.170	<2.728	<2.728	<2.728	5.15
Styrene	<34	<6.8	<6.8	<6.8	<6.8	<4.259	<17.03	<2.129	<2.728	<2.728	<2.728	<3.432
Tetrachloroethene	<54	<11	<11	<11	<11	<6.783	<27.13	<3.391	<2.728	<2.728	<2.728	<3.432
Toluene	55.70	4.90	7.90	7.90	6.00	3.77	715.94	<1.884	<2.728	6.55	<2.728	8.24
trans-1,2-Dichloroethene	NA	NA	NA	NA	NA	<3.964	<15.85	<1.982	NA	NA	NA	NA
trans-1,3-Dichloropropene	<36	<7.2	<7.2	<7.2	<7.2	<4.539	<18.15	<2.269	<2.728	<2.728	<2.728	<3.432
trans-1,4-Dichloro-2-butene	NA	NA	NA	NA	NA	<5.112	<20.44	<2.556	NA	NA	NA	NA
Trichloroethene	<42	<8.5	<8.5	<8.5	<8.5	<5.374	<21.49	<2.687	<2.728	<2.728	<2.728	<3.432
Trichlorofluoromethane	<44	<8.9	<8.9	<8.9	<8.9	<5.618	<22.47	<2.809	<2.728	<2.728	<2.728	<3.432
Trichlorotrifluoroethane	NA	NA	NA	NA	NA	<7.663	<30.65	<3.831	NA	NA	NA	NA
Vinyl Chloride	<20	<4.0	<4.0	<4	<4.0	<2.556	<10.22	<1.278	<2.728	<2.728	<2.728	<3.432
Xylenes (total)	3040.00	1160.00	1180.00	1180.00	971.00	1272.18	4.78	<4.341	<2.728	4.64	<2.728	15.10
Total Volatile Organics (mg/m^3)	50.42	40.01	40.21	40.21	39.59	1.61	0.89	0.00	0.01	0.01	0.00	0.04

Notes:

1. Total Volatile Organics = Sum of all detected volatile organic compounds
2. To compute Total VOCs, all non-detectable compounds were assumed to be zero.
3. All samples analyzed by EPA 18, TO-14
4. NA = Not Analyzed

TABLE 3-2
SVE System - Mid Carbon Vapor Analytical Results

Compound (mg/m^3)	07/24/00	08/15/00	09/18/00	10/18/00	11/13/00	12/11/00	01/17/01
OVA-FID (ppm)	NA	NA	NA	NA	NA	NA	NA
1,1,1-Trichloroethane	<2.728	<2.728	<2.728	<3.432	<2.728	<2.728	<2.728
1,1,2,2-Tetrachloroethane	<3.432	<3.432	<3.432	<3.432	<3.432	<3.432	<3.432
1,1,2-Trichloroethane	<2.728	<2.728	<2.728	<2.728	<2.728	<2.728	<2.728
1,1,2-Trichloro-1,2,2-trifluoroethane	<3.831	<3.831	<3.831	NA	NA	NA	NA
1,1-Dichloroethane	<2.023	<2.023	<2.023	<2.728	<2.728	<2.023	<2.023
1,1-Dichloroethene	<1.982	<1.982	<1.982	<2.728	<2.728	NA	NA
1,2,4-Trichlorobenzene	<3.710	<3.710	<3.710	NA	NA	NA	NA
1,2,4-Trimethylbenzene	<2.457	<2.457	<2.457	NA	NA	NA	NA
1,2-Dibromoethane	<3.842	<3.842	<3.842	NA	NA	NA	NA
1,2-Dichloroethane	<2.023	<2.023	<2.023	<2.728	<2.728	<2.023	<2.023
1,2-Dichlorobenzene	<3.006	<3.006	<3.006	<2.728	<2.728	<3.006	<3.006
1,3-Dichlorobenzene	<3.006	<3.006	<3.006	<2.728	<2.728	<3.006	<3.006
1,4-Dichlorobenzene	<3.006	<3.006	<3.006	<2.728	<2.728	<3.006	<3.006
1,2-Dichloropropane	<2.310	<2.310	<2.310	<2.728	<2.728	<2.310	<2.310
1,3,5-Trimethylbenzene	<2.457	<2.457	<2.457	NA	NA	NA	NA
2-Chlorotoluene	<2.588	<2.588	<2.588	NA	NA	NA	NA
4-Ethyltoluene	<2.476	<2.476	<2.476	NA	NA	NA	NA
Alpha-Chlorotoluene	<2.834	<2.834	<2.834	NA	NA	NA	NA
Benzene	<1.597	<1.597	3.83	<2.728	<2.728	<1.597	2.36
Bromoform	<5.168	<5.168	<5.168	NA	NA	NA	NA
Bromomethane	<1.941	<1.941	<1.941	<2.728	<2.728	<1.941	<1.941
Bromodichloromethane	<3.349	<3.349	<3.349	NA	NA	NA	NA
Carbon Disulfide	<1.556	<1.556	<1.556	NA	NA	NA	NA
Carbon Tetrachloride	<3.146	<3.146	<3.146	<2.728	<2.728	<3.146	<3.146
Chlorobenzene	<2.301	<2.301	<2.301	<2.728	<2.728	<2.301	<2.301
Chloroethane	<1.319	<1.319	1.93	<2.728	<2.728	<1.319	<1.319
Chloroform	<2.441	<2.441	<2.441	<2.728	<2.728	3.27	<2.441
Chloromethane	<1.032	1.09	1.12	<2.728	<2.728	<1.032	<1.032
cis-1,2-Dichloroethene	<1.982	<1.982	<1.982	<2.728	<2.728	<1.982	<1.982
cis-1,3-Dichloropropene	<2.269	<2.269	<2.269	<2.728	<2.728	<2.269	<2.269
Dibromochloromethane	<1.762	<1.762	<1.762	NA	NA	NA	NA
Dichlorodifluoromethane	<2.472	<2.472	<2.472	NA	NA	NA	NA
Dichlorotetrafluoroethane	<3.495	<3.495	<3.495	NA	NA	NA	NA
Ethylbenzene	<2.170	9.55	42.99	<2.728	<2.728	<2.170	<2.170
Freon 113	<3.831	<3.831	<3.831	NA	NA	NA	NA
Freon 114	<3.495	<3.495	<3.495	NA	NA	NA	NA
Hexachlorobutadiene	<5.332	<5.332	<5.332	NA	NA	NA	NA
Hexane	<1.762	<1.762	<1.762	NA	NA	NA	NA
m,p-Xylene	<2.170	130.26	277.88	<2.728	<2.728	<2.170	6.51
Methyl Tert Butyl Ether	<1.802	<1.802	<1.802	NA	NA	NA	NA
Methylene Chloride	7.99	<1.737	<1.737	6.55	<2.728	2.74	3.37
o-Xylene	<2.170	104.21	95.52	<2.728	<2.728	<2.170	3.26
Styrene	<2.129	<2.129	<2.129	<2.728	<2.728	<2.129	<2.129
Tetrachloroethene	<3.391	<3.391	<3.391	<2.728	<2.728	<3.391	<3.391
Toluene	<1.884	<1.884	16.58	<2.728	<2.728	4.52	4.52
trans-1,2-Dichloroethene	<1.982	<1.982	<1.982	NA	NA	NA	NA
trans-1,3-Dichloropropene	<2.269	<2.269	<2.269	<2.728	<2.728	<2.269	<2.269
trans-1,4-Dichloro-2-butene	<2.556	<2.556	<2.556	NA	NA	NA	NA
Trichloroethene	<2.687	<2.687	<2.687	<2.728	<2.728	<2.687	<2.687
Trichlorofluoromethane	<2.809	<2.809	<2.809	<2.728	<2.728	<2.809	<2.809
Trichlorotrifluoroethane	<3.831	<3.831	<3.831	NA	NA	NA	NA
Vinyl Chloride	<1.278	<1.278	<1.278	<2.728	<2.728	<1.278	<1.278
Xylenes (total)	<4.341	234.46	369.06	NA	NA	NA	NA
Total Volatile Organics (mg/m^3)	0.01	0.25	0.44	0.01	0.00	0.01	0.02

Notes:

1. Total Volatile Organics = Sum of all detected volatile organic compounds
2. To compute Total VOCs, all non-detectable compounds were assumed to be zero.
3. All samples analyzed by EPA 18, TO-14
4. NA = Not Analyzed

TABLE 3-3
SVE System - Post-Treatment Analytical Results

Compound ($\mu g/m^3$)	07/24/00	08/15/00	09/18/00	10/18/00	11/13/00	12/11/00	01/17/01	02/26/01	03/12/01	04/26/01	05/21/01
OVA-FID (ppm)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1,1-Trichloroethane	<2.728	<2.728	<2.728	<2.728	<2.728	<2.728	<2.728	<2.728	<2.728	<2.728	<2.728
1,1,2,2-Tetrachloroethane	<3.432	<3.432	<3.432	<3.432	<3.432	<3.432	<3.432	<3.432	<3.432	<3.432	<3.432
1,1,2-Trichloroethane	<2.728	<2.728	<2.728	<2.728	<2.728	<2.728	<2.728	<2.728	<2.728	<2.728	<2.728
1,1,2-Trichloro-1,2,2-trifluoroethane	<3.831	<3.831	<3.831	NA	NA	NA	NA	NA	NA	NA	NA
1,1-Dichloroethane	<2.023	<2.023	<2.023	<2.023	<2.023	<2.023	<2.023	<2.023	<2.023	<2.023	<2.023
1,1-Dichloroethene	<1.982	<1.982	<1.982	NA	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	<3.710	<3.710	<3.710	NA	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trimethylbenzene	<2.457	<2.457	<2.457	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dibromoethane	<3.842	<3.842	<3.842	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloroethane	<2.023	<2.023	<2.023	<2.023	<2.023	<2.023	<2.023	<2.023	<2.023	<2.023	<2.023
1,2-Dichlorobenzene	<3.006	<3.006	<3.006	<3.006	<3.006	<3.006	<3.006	<3.006	<3.006	<3.006	<3.006
1,3-Dichlorobenzene	<3.006	<3.006	<3.006	<3.006	<3.006	<3.006	<3.006	<3.006	<3.006	<3.006	<3.006
1,4-Dichlorobenzene	<3.006	<3.006	<3.006	<3.006	<3.006	<3.006	<3.006	<3.006	3.19	<3.006	<3.006
1,2-Dichloropropane	<2.310	<2.310	<2.310	<2.310	<2.310	<2.310	<2.310	<2.310	<2.310	<2.310	<2.310
1,3,5-Trimethylbenzene	<2.457	<2.457	<2.457	NA	NA	NA	NA	NA	NA	NA	NA
2-Chlorotoluene	<2.588	<2.588	<2.588	NA	NA	NA	NA	NA	NA	NA	NA
4-Ethyltoluene	<2.476	<2.476	<2.476	NA	NA	NA	NA	NA	NA	NA	NA
Alpha-Chlorotoluene	<2.834	<2.834	<2.834	NA	NA	NA	NA	NA	NA	NA	NA
Benzene	76.67	38.34	8.63	<1.597	<1.597	2.75	3.83	<1.597	<1.597	<1.597	<1.597
Bromoform	<5.168	<5.168	<5.168	NA	NA	NA	NA	NA	NA	NA	NA
Bromomethane	<1.941	<1.941	<1.941	<1.941	<1.941	<1.941	<1.941	<1.941	<1.941	<1.941	<1.941
Bromodichloromethane	<3.349	<3.349	<3.349	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Disulfide	<1.556	<1.556	<1.556	NA	NA	NA	NA	NA	NA	NA	NA
Carbon Tetrachloride	<3.146	<3.146	<3.146	<3.146	<3.146	<3.146	<3.146	<3.146	<3.146	<3.146	<3.146
Chlorobenzene	<2.301	<2.301	<2.301	<2.301	<2.301	<2.301	<2.301	<2.301	<2.301	<2.301	<2.301
Chloroethane	<1.319	<1.319	<1.319	<2.301	<1.319	<1.319	<1.319	<1.319	<1.319	<1.319	<1.319
Chloroform	<2.441	<2.441	<2.441	<2.441	<2.441	6.35	<2.441	<2.441	<2.441	<2.441	<2.441
Chloromethane	<1.032	1.42	<1.032	<1.032	<1.032	1.65	1.32	1.80	1.69	1.07	<1.032
cis-1,2-Dichloroethene	<1.982	<1.982	<1.982	<1.982	<1.982	<1.982	<1.982	<1.982	<1.982	<1.982	4.36
cis-1,3-Dichloropropene	<2.269	<2.269	<2.269	<2.269	<2.269	<2.269	<2.269	<2.269	<2.269	<2.269	<2.269
Dibromochloromethane	<1.762	<1.762	<1.762	NA	NA	NA	NA	NA	NA	NA	NA
Dichlorodifluoromethane	<2.472	<2.472	<2.472	NA	NA	NA	NA	NA	NA	NA	NA
Dichlorotetrafluoroethane	<3.495	<3.495	<3.495	NA	NA	NA	NA	NA	NA	NA	NA
Ethylbenzene	2.21	7.38	47.76	<2.170	47.76	138.94	169.33	<2.170	3.52	<2.170	<2.170
Freon 113	<3.831	<3.831	<3.831	NA	NA	NA	NA	NA	NA	NA	NA
Freon 114	<3.495	<3.495	<3.495	NA	NA	NA	NA	NA	NA	NA	NA

TABLE 3-3 (CONTINUED)
SVE System - Post-Treatment Analytical Results

Compound ($\mu g/m^3$)	01/00/00	01/00/00	01/00/00	01/00/00	01/00/00	01/00/00	01/00/00	01/00/00	01/00/00	01/00/00	01/00/00
Hexachlorobutadiene	<5.332	<5.332	<5.332	NA	NA	NA	NA	NA	NA	NA	NA
Hexane	<1.762	<1.762	<1.762	NA	NA	NA	NA	NA	NA	NA	NA
m,p-Xylene	16.07	18.24	4.34	<2.170	26.49	56.44	91.18	<2.170	17.80	5.64	7.82
Methyl Tert Butyl Ether	<1.802	<1.802	<1.802	NA	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride	<1.737	<1.737	<1.737	3.06	<1.737	4.17	3.82	1.98	3.44	1.98	<1.737
o-Xylene	9.99	9.12	<2.170	<2.170	4.34	<2.170	<2.170	<2.170	10.42	3.00	5.64
Styrene	<2.129	<2.129	<2.129	<2.129	<2.129	<2.129	<2.129	<2.129	<2.129	<2.129	<2.129
Tetrachloroethene	<3.391	<3.391	<3.391	<2.129	<3.391	<3.391	<3.391	<3.391	<3.391	<3.391	8.14
Toluene	<1.884	<1.884	45.22	<1.884	<1.884	60.29	67.83	<1.884	<1.884	<1.884	1.92
trans-1,2-Dichloroethene	<1.982	<1.982	<1.982	NA	NA	NA	NA	NA	NA	NA	NA
trans-1,3-Dichloropropene	<2.269	<2.269	<2.269	<2.269	34.50	<2.269	<2.269	<2.269	<2.269	<2.269	<2.269
trans-1,4-Dichloro-2-butene	<2.556	<2.556	<2.556	NA	NA	NA	NA	NA	NA	NA	NA
Trichloroethene	<2.687	<2.687	<2.687	<2.687	<2.687	<2.687	<2.687	<2.687	<2.687	<2.687	15.05
Trichlorofluoromethane	<2.809	<2.809	<2.809	<2.809	<2.809	2.81	3.32	<2.809	<2.809	<2.809	<2.809
Trichlorotrifluoroethane	<3.831	<3.831	<3.831	NA	NA	NA	NA	NA	NA	NA	NA
Vinyl Chloride	<1.278	<1.278	<1.278	<1.278	<1.278	<1.278	<1.278	<1.278	<1.278	<1.278	<1.278
Xylenes (total)	<4.34	<4.34	<4.34	<4.34	60.98	NA	NA	NA	NA	NA	NA
Total Volatile Organics (mg/m^3)	0.10	0.07	0.11	0.00	0.11	0.27	0.34	0.00	0.04	0.01	0.04

Notes:

1. Total Volatile Organics = Sum of all detected volatile organic compounds.
2. To compute Total VOCs, all non-detectable compounds were assumed to be zero.
3. All samples analyzed by EPA 18, TO-14
4. NA = Not Analyzed

TABLE 3-4
Mass Loading/Emission Rate

Location	Sample Date	Flow Rate (SCFM)	Total VOC Concentration (mg/m3)	Loading Rate (lbs/day)
Pre-Carbon Unit	07/24/2000	624.2	1.607	0.0903
(influent)	08/15/2000	630.0	0.891	0.0505
	09/18/2000	630.0	0.000	0.0000
	10/18/2000	627.2	0.005	0.0003
	11/13/2000	345.9	0.011	0.0003
	12/11/2000	338.7	0.0045	0.0001
	01/17/2001	111.1	0.0354	0.0004
Mid-Carbon Unit	07/24/2000	624.2	0.008	0.0004
(mid-fluent)	08/15/2000	630.0	0.245	0.0139
	09/18/2000	630.0	0.440	0.0249
	10/18/2000	627.2	0.007	0.0004
	11/13/2000	345.9	0.000	0.0000
	12/11/2000	338.7	0.011	0.0003
	01/17/2001	111.1	0.020	0.0002
Post-Carbon Unit	07/24/2000	624.2	0.105	0.0059
(effluent)	08/15/2000	630.0	0.074	0.0042
	09/18/2000	630.0	0.106	0.0060
	10/18/2000	627.2	0.003	0.0002
	11/13/2000	345.9	0.113	0.0035
	12/11/2000	338.7	0.273	0.0083
	01/17/2001	111.1	0.341	0.0034
	02/26/2001	468.9	0.004	0.0002
	03/12/2001	627.6	0.040	0.0023
	04/26/2001	649.6	0.012	0.0007
	05/21/2001	534.8	0.043	0.0021

TABLE 3-5
Groundwater Analytical Results

	Sample Date	Benzene	Toluene	Ethylbenzene	Xylenes (total)	1,2,3-Trichlorobenzene	1,2,4-Trichlorobenzene	1,2,4-Trimethylbenzene	1,2-Dibromo-3-chloropropane	1,3,5-Trimethylbenzene	Chloromethane	Hexachlorobutadiene	Isopropylbenzene	Methylene Chloride	n-Propylbenzene	p-Isopropyltoluene	sec-Butylbenzene	1- Methylnaphthalene	2-Methylnaphthalene	Naphthtalene (by EPA Method 8021)	Naphthalene (by EPA Method 8310)	Petroleum Range Org (PRO)	Lead
CEF-103-SMW01	**03/20/00**	<2	1.1	<3	<5	2.9	2.4	<6.5	1.4	<2.5	1.1	1.3	<2.5	2	<2	<6	<6.5	<1	<1	3.5	<1.0	420	68
	09/28/00	<2	<5.5	<3	<5	<1.5	<2	<6.5	<13	<2.5	<6.5	<5.5	<2.5	<1.5	<2	<6	<6.5	<1	<1	0.89	<1.04	440	ND
	12/20/00	<2	<5.5	<3	<5	0.91	0.57	<6.5	<13	<2.5	<6.5	<5.5	<2.5	<1.5	<2	<6	<6.5	<1	<1	2	<1	470	110
	03/27/01	<1	<5.5	<3	<5	<1.5	<2	<6.5	<13	<2.5	<6.5	<5.5	<2.5	0.53	<2	<6	<6.5	<1	<1	<2	<1	0.97	0.049
	05/23/01	<1	<5.5	<3	<5	<1.5	<2	<6.5	<13	<2.5	0.63	<5.5	<2.5	0.87	<2	<6	<6.5	<1	<1	<2	<1	<1	0.1
CEF-103-SMW02	**03/20/00**	<2	<5.5	<3	<5	1.1	1.7	1.9	<13	<2.5	<6.5	<5.5	<2.5	<1.5	<2	5.2	<6.5	<1	<1	3.7	<1.0	330	36
	09/28/00	<2	<5.5	<3	<5	<1.5	<2	<6.5	<13	<2.5	<6.5	<5.5	<2.5	<1.5	<2	<6	<6.5	<1	<1	0.69	<1.04	660	32
	12/20/00	<2	<5.5	<3	<5	<1.5	<2	0.64	<13	<2.5	<6.5	<5.5	<2.5	<1.5	<2	<6	<6.5	<1	<1	1.5	<1	580	170
	03/27/01	<1	<5.5	<3	<5	<1.5	<2	<6.5	<13	<2.5	<6.5	<5.5	<2.5	0.51	<2	<6	<6.5	<1	<1	<2	<1	0.87	0.015
	05/23/01	<1	<5.5	<3	<5	<1.5	<2	<6.5	<13	<2.5	0.61	<5.5	<2.5	0.96	<2	<6	<6.5	<1	<1	<2	<1	<1	0.1
CEF-103-SMW03	**03/20/00**	<2	1.4	3.7	<5	<1.5	<2	52	<13	20	<6.5	<5.5	4.6	<1.5	4.2	12	2.2	<1	<1	17	3.7	1500	57
	09/28/00	<2	<5.5	<3	<5	<1.5	<2	<6.5	<13	<2.5	<6.5	<5.5	<2.5	<1.5	<2	<6	<6.5	<1	<1	0.89	<1.04	750	51
	12/20/00	<2	<5.5	<3	<5	<1.5	<2	0.64	<13	<2.5	<6.5	<5.5	<2.5	<1.5	<2	<6	<6.5	<1	<1	1.4	<1	440	<10
	03/27/01	<1	<5.5	<3	<5	<1.5	<2	<6.5	<13	<2.5	<6.5	<5.5	<2.5	0.65	<2	<6	<6.5	<1	<1	<2	<1	0.75	0.047
	05/23/01	<1	<5.5	<3	<5	<1.5	<2	<6.5	<13	<2.5	<6.5	<5.5	<2.5	1.3	<2	<6	<6.5	<1	<1	<2	<1	<1	0.013
CEF-103-SMW04	**03/20/00**	2.8	<5.5	87	280	<1.5	<2	410	<13	130	<6.5	<5.5	43	<1.5	54	89	40	<1	<1	210	58.2	8600	<10
	09/28/00	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	12/20/00	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	03/27/01	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	05/23/01	<1	<5.5	<3	<5	<1.5	<2	0.69	<13	0.72	<6.5	<5.5	<2.5	1.1	<2	<6	<6.5	<1	<1	<2	<1	4.6	0.013
CEF-103-SMW05	**03/20/00**	<2	<5.5	<3	<5	<1.5	5.5	<6.5	<13	130	<6.5	<5.5	<2.5	<1.5	<2	<2	2.1	<1	<1	9.8	3.7	11000	25
	09/28/00	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	12/20/00	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	03/27/01	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	05/23/01	<1	<5.5	<3	<5	<1.5	<2	<6.5	<13	<2.5	<6.5	<5.5	<2.5	1.1	<2	<6	<6.5	<1	<1	<2	<1	1	0.021
CEF-103-SMW06	**03/20/00**	<2	<5.5	17	24	<1.5	<2	55	<13	16	<6.5	<5.5	8.7	1.6	8.9	2.2	3.4	<1	<1	22	8.9	660	33
	09/28/00	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	12/20/00	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	03/27/01	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	05/23/01	<1	<5.5	<3	<5	<1.5	<2	<6.5	<13	<2.5	0.59	<5.5	<2.5	0.95	<2	<6	<6.5	<1	<1	<2	<1	<1	0.086
CEF-103-SMW07	**03/20/00**	<2	<5.5	<3	2.2	<1.5	<2	<6.5	<13	<2.5	<6.5	<5.5	<2.5	1.6	<2	<6	<6.5	<1	<1	<2	<1.0	720	13
	09/28/00	<2	<5.5	<3	<5	<1.5	<2	<6.5	<13	<2.5	<6.5	<5.5	<2.5	<1.5	<2	<6	<6.5	<1	<1	0.72	<1.04	730	86
	12/20/00	<2	<5.5	<3	<5	<1.5	<2	<6.5	<13	<2.5	<6.5	<5.5	<2.5	<1.5	<2	<6	<6.5	<1	<1	1.1	<1	670	170
	03/27/01	<1	<5.5	<3	<5	<1.5	<2	<6.5	<13	<2.5	<6.5	<5.5	<2.5	0.53	<2	<6	<6.5	<1	<1	<2	<1	1.3	0.07
	05/23/01	<1	<5.5	<3	<5	<1.5	<2	<6.5	<13	<2.5	0.87	<5.5	<2.5	1.1	<2	<6	<6.5	<1	<1	<2	<1	<1	0.071
CEF-103-SMW08	**03/20/00**	<2	<5.5	<3	2.3	<1.5	<2	<6.5	<13	<2.5	<6.5	<5.5	<2.5	<1.5	<2	<6	<6.5	<1	<1	<2	<1.0	540	42
	09/28/00	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	12/20/00	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	03/27/01	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	05/23/01	<1	<5.5	<3	<5	<1.5	<2	<6.5	<13	<2.5	1	<5.5	<2.5	1	<2	<6	<6.5	<1	<1	<2	<1	<1	0.16
CEF-103-SMW09	**03/20/00**	<2	<5.5	<3	1.1	<1.5	<2	<6.5	<13	<2.5	<6.5	<5.5	<2.5	1.2	<2	<6	<6.5	<1	<1	<2	<1.0	700	24
	09/28/00	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	12/20/00	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	03/27/01	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	05/23/01	<1	<5.5	<3	<5	<1.5	<2	<6.5	<13	<2.5	0.78	<5.5	<2.5	1.1	<2	<6	<6.5	<1	<1	<2	<1	1	0.09

TABLE 3-5 (CONTINUED)
Groundwater Analytical Results

	Sample Date	Benzene	Toluene	Ethylbenzene	Xylenes (total)	1,2,3-Trichlorobenzene	1,2,4-Trichlorobenzene	1,2,4-Trimethylbenzene	1,2-Dibromo-3-chloropropane	1,3,5-Trimethylbenzene	Chloromethane	Hexachlorobutadiene	Isopropylbenzene	Methylene Chloride	n-Propylbenzene	p-Isopropyltoluene	sec-Butylbenzene	1- Methylnaphthalene	2-Methylnaphthalene	Naphthalene (by EPA Method 8021)	Naphthalene (by EPA Method 8310)	Petroleum Range Org (PRO)	Lead
CEF-103-SMW10	**03/20/00**	<2	<5.5	<3	2.7	<1.5	<2	<6.5	<13	<2.5	<6.5	<5.5	<2.5	<1.5	<2	<6	<6.5	<1	<1	<2	<1.0	430	52
	09/28/00	<2	<5.5	<3	<5	<1.5	<2	<6.5	<13	<2.5	<6.5	<5.5	<2.5	<1.5	<2	<6	<6.5	<1	<1	0.63	<1.04	620	240
	12/20/00	<2	<5.5	<3	<5	<1.5	<2	<6.5	<13	<2.5	<6.5	<5.5	<2.5	<1.5	<2	<6	<6.5	<1	<1	1	<1	390	340
	03/27/01	<1	<5.5	<3	<5	<1.5	<2	<6.5	<13	<2.5	<6.5	<5.5	<2.5	1	<2	<6	<6.5	<1	<1	<2	<1	0.66	0.05
	05/23/01	<1	<5.5	<3	<5	<1.5	<2	<6.5	<13	<2.5	1.1	<5.5	<2.5	1.1	<2	<6	<6.5	<1	<1	<2	<1	<1	0.065
CEF-103-SMW11	**03/20/00**	1.9	3.8	51	220	<1.5	<2	250	<13	52	<6.5	<5.5	26	<1.5	28	24	17	<1	<1	96	20.6	3600	54
	09/28/00	1.9	<5.5	2.9	12	<1.5	<2	12	<13	4.1	<6.5	<5.5	1.2	<1.5	1.2	<6	1.2	<1	<1	3.7	2.2	7800	51
	12/20/00	<2	<5.5	20	10	1.23	0.78	87	<13	22	<6.5	<5.5	8	<1.5	8.3	9.6	5.9	6	5	31	11	15000	140
	03/27/01	<1	<5.5	10	14	<1.5	<2	46	<13	11	<6.5	<5.5	5.6	<1.5	5.4	4.1	5.4	3.16	2.17	17	2.74	20	0.032
	05/23/01	<1	<5.5	23	29	<1.5	<2	61	<13	14	<6.5	<5.5	11	1	11	4.2	5.8	10.9	7.88	37	18.4	6.4	0.037
CEF-103-SMW12	**03/20/00**	<2	<5.5	<3	2.3	<1.5	<2	4	<13	1.4	<6.5	<5.5	<2.5	3.7	<2	<6	<6.5	<1	<1	6.3	<1.0	700	74
	09/28/00	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<1	<1	NS	NS	NS	NS
	12/20/00	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	<1	<1	NS	NS	NS	NS
	03/27/01	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	05/23/01	<1	<5.5	<3	<5	<1.5	<2	<6.5	<13	<2.5	0.51	<5.5	<2.5	1.2	<2	<6	<6.5	<1	<1	1.1	<1	1.1	0.031
CEF-103-DMW01	**03/20/00**	<2	<5.5	<3	1.8	<1.5	<2	<6.5	<13	<2.5	<6.5	<5.5	<2.5	<1.5	<2	<6	<6.5	<1	<1	<2	<1.0	480	<10
	09/28/00	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	12/20/00	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	03/27/01	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	05/23/01	<1	<5.5	<3	<5	<1.5	<2	<6.5	<13	<2.5	1.3	<5.5	<2.5	1.1	<2	<6	<6.5	<1	<1	<2	<1	<1	<.01
GCTL		1	40	30	20	70	70	10	0.2	10	2.7	0.5	0.8	5	---	---	---	20	20	20	20	5000	15
NADSC		100	400	300	200	700	700	100	20	100	270	50	8	500	---	---	---	200	200	200	200	50000	150

NOTES: 1. All results in ug/L except FL PRO and lead are in mg/L
2. NA = not analyzed
3. NS = not sampled
4. Light Shade = concentration is above groundwater cleanup target levels (GCTLs)
5. Dark Shade = concentrtation is above natural attenuation default source criteria (NADSC)

TABLE 3-6
Monitoring Well Field Measurements

Well Identification	Date/Time	pH	Conductivity (mS/cm)	Dissolved O_2 (mg/L)	Temperature (^oC)
CEF-103-SMW-01	03/20/00	6.29	9.33	0.915	23.3
	09/28/00	6.87	0.71	2.25	26.4
	12/20/00	6.50	0.52	1.8	21.6
	03/27/01	7.10	0.73	0.7	20
	05/23/01	5.70	0.485	3.07	22.5
CEF-103-SMW-02	03/20/00	6.09	8.81	0.945	22.4
	09/28/00	6.46	0.93	2.07	27.3
	12/20/00	6.61	0.72	2.1	22.4
	03/27/01	7.20	0.67	2.5	20
	05/24/01	6.24	0.599	3.66	21.7
CEF-103-SMW-03	03/20/00	6.40	9.40	0.806	22.6
	09/28/00	5.92	0.665	5.74	26.5
	12/20/00	4.30	0.667	4.42	22.3
	03/27/01	7.10	0.74	6.3	21
	05/23/01	5.60	0.652	5.8	23
CEF-103-SMW-04	03/20/00	6.27	9.19	0.758	23.2
	09/28/00	NR	NR	NR	NR
	12/20/00	NR	NR	NR	NR
	03/27/01	NR	NR	NR	NR
	05/23/01	6.49	0.65	3.59	24.8
CEF-103-SMW-05	03/20/00	6.57	8.93	1.12	23.1
	09/28/00	NR	NR	NR	NR
	12/20/00	NR	NR	NR	NR
	03/27/01	NR	NR	NR	NR
	05/23/01	6.86	0.61	2.67	23.8
CEF-103-SMW-06	03/20/00	5.95	9.25	0.75	20.5
	09/28/00	NR	NR	NR	NR
	12/20/00	NR	NR	NR	NR
	03/27/01	NR	NR	NR	NR
	05/24/01	3.06	1.62	2.61	21.5
CEF-103-SMW-07	03/20/00	5.78	9.63	0.94	20.9
	09/28/00	6.88	0.19	3.67	26.2
	12/20/00	6.30	0.21	3.2	20.6
	03/27/01	7.10	0.26	4.2	19
	05/24/01	5.95	0.249	4.73	21.5

TABLE 3-6 (CONTINUED)
Monitoring Well Field Measurements

Well Identification	Date/Time	pH	Conductivity (mS/cm)	Dissolved O_2 (mg/L)	Temperature (^oC)
CEF-103-SMW-08	03/20/00	6.23	9.84	0.662	21.8
	09/28/00	NR	NR	NR	NR
	12/20/00	NR	NR	NR	NR
	03/27/01	NR	NR	NR	NR
	05/24/01	5.98	0.31	0.23	21.3
CEF-103-SMW-09	03/20/00	5.72	8.99	0.823	21.3
	09/28/00	NR	NR	NR	NR
	12/20/00	NR	NR	NR	NR
	03/27/01	NR	NR	NR	NR
	05/24/01	5.50	0.34	1.89	21.8
CEF-103-SMW-10	03/20/00	5.43	9.40	0.197	20.7
	09/28/00	5.25	0.35	0.9	25
	12/20/00	4.32	0.38	2.5	19.3
	03/27/01	7.00	0.18	2.5	18
	05/24/01	4.05	0.514	4.63	20.6
CEF-103-SMW-11	03/20/00	6.33	9.61	0.96	22.6
	09/28/00	6.82	0.816	2	27.3
	12/20/00	6.89	1.07	0.11	22.1
	03/27/01	7.20	1.3	2.2	21
	05/23/01	6.45	0.696	1.63	24.1
CEF-103-SMW-12	03/20/00	5.72	9.00	0.615	22.6
	09/28/00	NR	NR	NR	NR
	12/20/00	NR	NR	NR	NR
	03/27/01	NR	NR	NR	NR
	05/23/01	5.71	0.46	4.39	22.3

NR = no reading taken

4.0 Conclusions and Recommendations

Out of the 12 shallow monitoring wells and 1 deep monitoring well, only one well, CEF-103-SMW11 was found to have contaminant concentrations greater than the GCTL during the annual groundwater sampling event. The concentrations in CEF-103-SMW11 were decreased from the baseline sampling event and were below the Natural Attenuation Default Source Concentrations specified by FAC 62-777 except for isopropylbenzene.

LNAPL was not noted in any monitoring well during the monitoring period.

It is recommended that the remediation system continue to operate. If contaminant concentrations in monitoring well CEF-103-SMW-11 do not continue to decrease below the GCTLs, then extending the air sparge treatment zone to include the CEF-103-SMW-11 area will be evaluated.

5.0 References

CH2M HILL Constructors, Inc. February 2000. Work Plan Addendum No. 01, 103rd Street and "A" Avenue Jet Fuel Transfer Pipeline Air Sparge and Soil Vapor Extraction System Installation, Naval Air Station Cecil Field, Jacksonville, Florida.

Tetra Tech NUS, Inc. (TtNUS). August 1999. Remedial Action Plan, "A" Avenue Jet Fuel Transfer Pipeline and 103rd Street, Naval Air Station Cecil Field, Jacksonville, Florida.

Appendix A

FDEP Annual Status Report Form

Active Remediation
Annual Status Report Summary

DEP Form # 62-770.900(5)
Form Title: Active Remediation Annual Status Report Summary
Effective Date: September 23, 1997

Site Name 103rd St & "A" Ave Jet Fuel Transfer Pipelin
Location NAS Cecil field, Jacksonville, Florida
RAP Approval Date / /
Media Contaminated: ☑ Groundwater ☑ Soil

FDEP Facility ID No. _____
Applicable Dates 5 /23/0 to 5 /31/1
System Startup Date 5 /23/0

Method of Groundwater Remediation:

☐ Pump-and-Treat
- Design Flow Rate _____ (gpm)
- Actual Flow Rate _____ (gpm)
- Total Vol. Recovered to Date _____ (1000 gal)

☑ In Situ Air Sparging
- Design Air Flow Rate 220 scfm (cfm)
- Actual Air Flow Rate N/A (cfm)
- Estimated Radius of Influence 30 (ft)

☐ Biosparging
- Design Flow Rate _____ (gpm)
- Actual Flow Rate _____ (gpm)

☐ Bioremediation

☐ Other _____

Estimated Total Mass Recovered or Remediated This Period: 6.1 (lbs)
- Mass Removed by Pump-and-Treat _____ (lbs)
- Mass Removed by VES and/or AS 6.1 (lbs)
- Mass Removed by FP Recovery _____ (lbs)
- Other Estimated Mass Removed _____ (lbs)
  (specify method: _____)

Concentration of Total VOAs in Designated Wells at End of:

	This Period	Previous Period
• MW-4	2.5 ppb	1136 ppb
• MW-5	1.1 ppb	138 ppb
• MW-6	1.5 ppb	137 ppb
• MW-11	160 ppb	674 ppb

Method of Soil Remediation:

☑ Vapor Extraction System (VES)
- Design Air Flow Rate 350 SCFM (cfm)
- Actual Air Flow Rate 544.6 SCFM (cfm)
- Estimated Radius of Influence 15 (ft)
- Air Emissions Treatment
  ☑ Discontinued / date 2 /8 /1 ☐ Ongoing

☐ Soil Bioventing
- Design Air Flow Rate _____ (cfm)
- Actual Air Flow Rate _____ (cfm)

☐ In Situ Bioremediation

☐ Other _____

Free Product Present: ☐ Yes ☑ No
- Volume Recovered to Date _____ (gal)

Estimated Time of Cleanup for Active Remediation: 1477 (days)
- Estimated time of cleanup based on target level concentration C and on the exponential decay equation, $C_1 = C_0 e^{xt_1}$, where C_1 = present concentration at the most contaminated source well (ppb); C_0 = highest initial concentration of applicable chemical of concern at system startup (ppb); x = decay coefficient; and t_1 = length of time between initial and present concentration (days). A semi-log plot for cleanup times should be provided.

Cleanup Time Predicted in RAP: 730 (days) [explain below, difference between RAP and calculated]

O & M Problems: ☑ Yes ☐ No (if yes, provide explanation below)
- No. of scheduled O & M visits weekly
- Down-time AS: 135, SVE: 63 (days)
- No. of unscheduled O & M visits _____

Description of O & M Problems: Water drawn into SVE wells due to high water table and low topography, electrical problems with air sparge equipment that have now been solved.

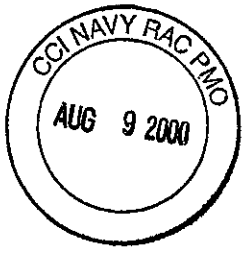
Short Description of Effectiveness of Cleanup: COC concentrations have decreased below GCTLs in all wells except MW-11. MW-11 is outside of the influence of the treatment system. MW-11 clean-up is due to source removal & reduction from from treatment system. The calculated clean-up time is based upon MW-11.

Recommendations and Proposed Modifications: _____

Appendix B

Laboratory Analytical Reports for Air Samples

ACCURA ANALYTICAL LABORATORY, INC.
6017 Financial Drive, Norcross, Georgia, 30071, Phone (770) 449-8800



CASE NARRATIVE for Project Number: 25115
Client Project: N.A.S. Cecil Field 103RD Street / 154282 CTO-0029

The following items were noted concerning this project:

1. The following analysis was performed by a subcontract laboratory:
   VOC's TO-14A

2. The following sample required dilution due to high analyte concentration, resulting in elevated detection limits:
   VOC's TO-14A
   029-ACA-I-A-0724-00-02 Xylenes (m,p)

Quality Assurance

This report may not be reproduced, except in full, without written approval from Accura Analytical Laboratory, Inc.

ACCURA ANALYTICAL LABORATORY, INC.

6017 Financial Drive, Norcross, Georgia 30017, Phone (770)449-8800, FAX (770)449-5477
FL Certification # E87429 NC Certification # 483 SC Certification # 98015 USACE-MRD Approved

LABORATORY REPORT

Accura Sample ID #: AB96557 **Accura Project #: 25115**

Client: CH2M HILL - CCI Date Sampled: 7/24/00

Client Contact: KEITH CONN Date Received: 7/25/00

Client Project Number: 154282 CTO-0029 Date Reported: 8/7/00

Client Project Name: N.A.S. CECIL FIELD 103RD STREET Sample Matrix: AIR

Client Sample ID: 029-ACA-I-A-0724-00-02

ANALYSIS: VOC's in Air (ppbv) Method Ref: TO-14A

Date Ext/Dig/Prep: 7/28/00 Date Analyzed: 7/28/00 Result Units: ppbv

Analyte Name	Analytical Results	Reported Detection Limits
1,1,1-Trichloroethane	<RDL	1.0
1,1,2,2-Tetrachloroethane	<RDL	1.0
1,1,2-Trichloroethane	<RDL	1.0
1,1-Dichloroethane	<RDL	1.0
1,2-Dichlorobenzene	<RDL	1.0
1,2-Dichloroethane	<RDL	1.0
1,2-Dichloropropane	<RDL	1.0
1,3-Dichlorobenzene	<RDL	1.0
1,4-Dichlorobenzene	<RDL	1.0
Benzene	<RDL	1.0
Bromomethane	<RDL	1.0
Carbon tetrachloride	<RDL	1.0
Chlorobenzene	<RDL	1.0
Chloroethane	<RDL	1.0
Chloroform	<RDL	1.0
Chloromethane	<RDL	1.0
cis-1,3-Dichloropropene	<RDL	1.0
Ethylbenzene	62	4.0
Methylene chloride	<RDL	1.0
Styrene	<RDL	1.0
Tetrachloroethene	<RDL	1.0
Toluene	1.0	1.0
trans-1,3-Dichloropropene	<RDL	1.0
Trichloroethene	<RDL	1.0
Trichlorofluoromethane	<RDL	1.0
Vinyl chloride	<RDL	1.0
Xylenes (m,p)	230	4.0
Xylenes (o)	63	4.0

Accura Analytical Laboratory, Inc.

ACCURA ANALYTICAL LABORATORY, INC.

6017 Financial Drive, Norcross, Georgia 30017, Phone (770)449-8800, FAX (770)449-5477

FL Certification # E87429 NC Certification # 483 SC Certification # 98015 USACE-MRD Approved

LABORATORY REPORT

Accura Sample ID #: AB96558 **Accura Project #: 25115**

Client: CH2M HILL - CCI Date Sampled: 7/24/00

Client Contact: KEITH CONN Date Received: 7/25/00

Client Project Number: 154282 CTO-0029 Date Reported: 8/7/00

Client Project Name: N.A.S. CECIL FIELD 103RD STREET Sample Matrix: AIR

Client Sample ID: 029-ACA2-I-A-0724-00-02

ANALYSIS: VOC's in Air (ppbv) Method Ref: TO-14A

Date Ext/Dig/Prep: 7/28/00 Date Analyzed: 7/28/00 Result Units: ppbv

Analyte Name	Analytical Results	Reported Detection Limits
1,1,1-Trichloroethane	<RDL	0.50
1,1,2,2-Tetrachloroethane	<RDL	0.50
1,1,2-Trichloroethane	<RDL	0.50
1,1-Dichloroethane	<RDL	0.50
1,2-Dichlorobenzene	<RDL	0.50
1,2-Dichloroethane	<RDL	0.50
1,2-Dichloropropane	<RDL	0.50
1,3-Dichlorobenzene	<RDL	0.50
1,4-Dichlorobenzene	<RDL	0.50
Benzene	<RDL	0.50
Bromomethane	<RDL	0.50
Carbon tetrachloride	<RDL	0.50
Chlorobenzene	<RDL	0.50
Chloroethane	<RDL	0.50
Chloroform	<RDL	0.50
Chloromethane	<RDL	0.50
cis-1,3-Dichloropropene	<RDL	0.50
Ethylbenzene	<RDL	0.50
Methylene chloride	2.3	0.50
Styrene	<RDL	0.50
Tetrachloroethene	<RDL	0.50
Toluene	<RDL	0.50
trans-1,3-Dichloropropene	<RDL	0.50
Trichloroethene	<RDL	0.50
Trichlorofluoromethane	<RDL	0.50
Vinyl chloride	<RDL	0.50
Xylenes (m,p)	<RDL	0.50
Xylenes (o)	<RDL	0.50

Accura Analytical Laboratory, Inc.

ACCURA ANALYTICAL LABORATORY, INC.

6017 Financial Drive, Norcross, Georgia 30017, Phone (770)449-8800, FAX (770)449-5477

FL Certification # E87429 NC Certification # 483 SC Certification # 98015 USACE-MRD Approved

LABORATORY REPORT

Accura Sample ID #: AB96559 **Accura Project #: 25115**

Client: CH2M HILL - CCI

Client Contact: KEITH CONN

Client Project Number: 154282 CTO-0029

Client Project Name: N.A.S. CECIL FIELD 103RD STREET

Client Sample ID: 029-ACA-E-A-0724-00-02

Date Sampled: 7/24/00

Date Received: 7/25/00

Date Reported: 8/7/00

Sample Matrix: AIR

ANALYSIS: VOC's in Air (ppbv) Method Ref: TO-14A

Date Ext/Dig/Prep: 7/28/00 Date Analyzed: 7/28/00 Result Units: ppbv

Analyte Name	Analytical Results	Reported Detection Limits
1,1,1-Trichloroethane	<RDL	0.50
1,1,2,2-Tetrachloroethane	<RDL	0.50
1,1,2-Trichloroethane	<RDL	0.50
1,1-Dichloroethane	<RDL	0.50
1,2-Dichlorobenzene	<RDL	0.50
1,2-Dichloroethane	<RDL	0.50
1,2-Dichloropropane	<RDL	0.50
1,3-Dichlorobenzene	<RDL	0.50
1,4-Dichlorobenzene	<RDL	0.50
Benzene	24	0.50
Bromomethane	<RDL	0.50
Carbon tetrachloride	<RDL	0.50
Chlorobenzene	<RDL	0.50
Chloroethane	<RDL	0.50
Chloroform	<RDL	0.50
Chloromethane	<RDL	0.50
cis-1,3-Dichloropropene	<RDL	0.50
Ethylbenzene	0.51	0.50
Methylene chloride	<RDL	0.50
Styrene	<RDL	0.50
Tetrachloroethene	<RDL	0.50
Toluene	<RDL	0.50
trans-1,3-Dichloropropene	<RDL	0.50
Trichloroethene	<RDL	0.50
Trichlorofluoromethane	<RDL	0.50
Vinyl chloride	<RDL	0.50
Xylenes (m,p)	3.7	0.50
Xylenes (o)	2.3	0.50

Accura Analytical Laboratory, Inc.

ACCURA ANALYTICAL LABORATORY, INC.

6017 Financial Drive, Norcross, Georgia 30017, Phone (770)449-8800, FAX (770)449-5477
FL Certification # E87429 NC Certification # 483 SC Certification # 98015 USACE-MRD Approved

LABORATORY REPORT

Accura Sample ID #: AB96560 **Accura Project #: 25115**

Client: CH2M HILL - CCI Date Sampled: 7/25/00

Client Contact: KEITH CONN Date Received: 7/25/00

Client Project Number: 154282 CTO-0029 Date Reported: 8/7/00

Client Project Name: N.A.S. CECIL FIELD 103RD STREET Sample Matrix: AIR

Client Sample ID: METHOD BLANK

ANALYSIS: VOC's in Air (ppbv) Method Ref: TO-14A

Date Ext/Dig/Prep: 7/28/00 Date Analyzed: 7/28/00 Result Units: ppbv

Analyte Name	Analytical Results	Reported Detection Limits
1,1,1-Trichloroethane	<RDL	0.50
1,1,2,2-Tetrachloroethane	<RDL	0.50
1,1,2-Trichloroethane	<RDL	0.50
1,1-Dichloroethane	<RDL	0.50
1,2-Dichlorobenzene	<RDL	0.50
1,2-Dichloroethane	<RDL	0.50
1,2-Dichloropropane	<RDL	0.50
1,3-Dichlorobenzene	<RDL	0.50
1,4-Dichlorobenzene	<RDL	0.50
Benzene	<RDL	0.50
Bromomethane	<RDL	0.50
Carbon tetrachloride	<RDL	0.50
Chlorobenzene	<RDL	0.50
Chloroethane	<RDL	0.50
Chloroform	<RDL	0.50
Chloromethane	<RDL	0.50
cis-1,3-Dichloropropene	<RDL	0.50
Ethylbenzene	<RDL	0.50
Methylene chloride	<RDL	0.50
Styrene	<RDL	0.50
Tetrachloroethene	<RDL	0.50
Toluene	<RDL	0.50
trans-1,3-Dichloropropene	<RDL	0.50
Trichloroethene	<RDL	0.50
Trichlorofluoromethane	<RDL	0.50
Vinyl chloride	<RDL	0.50
Xylenes (m,p)	<RDL	0.50
Xylenes (o)	<RDL	0.50

Accura Analytical Laboratory, Inc.

PROJECT QUALITY CONTROL RESULTS FOR AIR
Accura Project #25115

Method No[1]	Analyte / Component	LCS Recovery (Actual) Air	LCS Recovery (Expected) Air	% Recovery (LCS) Air	Accuracy Limits(LCS) Audit Accuracy Recoveries Air
TO-14A List		ppbv	ppbv	%	%
TO-14A	Benzene	11	10	110	70-130
TO-14A	Carbon Tetrachloride	11	10	110	70-130
TO-14A	Chlorobenzene	11	10	110	70-130
TO-14A	Chloroform	12	10	120	70-130
TO-14A	1,3-Dichlorobenzene	10	10	100	70-130
TO-14A	1,4-Dichlrobenzene	11	10	110	70-130
TO-14A	1,2-Dichlorobenzene	11	10	110	70-130
TO-14A	1,1-Dichloroethane	12	10	120	70-130
TO-14A	1,2-Dichloroethane	12	10	120	70-130
TO-14A	Methylene Chloride	11	10	110	70-130
TO-14A	1,2-Dichloropropane	12	10	120	70-130
TO-14A	Cis-1,3-Dichloropropene	12	10	120	70-130
TO-14A	Trans-1,3-Dichloropropene	12	10	120	70-130
TO-14A	Ethylbenzene	12	10	120	70-130
TO-14A	Chloroethane	12	10	120	70-130
TO-14A	Bromomethane	11	10	110	70-130
TO-14A	Chloromethane	11	10	110	70-130
TO-14A	Styrene	11	10	110	70-130
TO-14A	1,1,2,2-Tetrachloroethane	12	10	120	70-130
TO-14A	Tetrachloroethylene	11	10	110	70-130
TO-14A	Toluene	12	10	120	70-130
TO-14A	1,1,1-Trichloroethane	12	10	120	70-130
TO-14A	1,1,2-Trichloroethane	11	10	110	70-130
TO-14A	Trichloroethylene	11	10	110	70-130
TO-14A	Vinyl Chloride	12	10	120	70-130
TO-14A	m-p-Xylene	23	20	115	70-130
TO-14A	o-Xylene	12	10	120	70-130
TO-14A	Trichlorofluoromethane	12	10	120	70-130

APL# 25115

CH2M Hill Constructors, Inc.
115 Perimeter Center Place
Atlanta, GA 30346-1278
Tel No (770) 604-9182 , Fax No (770) 604-9282

CHAIN-OF-CUSTODY RECORD

CONTRACT NUMBER: **154282-01**

PROJECT NAME	PROJECT NUMBER	LAB NAME AND CONTACT	FAX AND MAIL REPORTS/EDD TO RECIPIENT 1 (Name and Company)	RECIPIENT 1 (Address, Tel No , and Fax No.)
N.A.S Cecil Field 103rd Street	154282	Severn Trent Laboratories/ Ron Pentkowski	Jeff Wilmoth Accura Analytical Laboratory	6017 Financial Drive Norcross, GA 30071 (770) 449-8800 Fax:(770) 449-5477
PROJECT PHASE/SITE/TASK	CTO-OR DO NUMBER	LAB PO NUMBER	FAX AND MAIL REPORTS/EDD TO. RECIPIENT 2 (Name and Company)	RECIPIENT 2 (Address, Tel No. , and Fax No)
103rd Street Mouthly Air	0029	1760	Keith Conn / J.A Jones Env. Services	6219 Authority Ave. Building 1 Jacksonville, FL 32215 (904) 7774812 FAX: (904) 7774262
PROJECT CONTACT	PROJECT TEL NO AND FAX NO	LAB TEL NO AND FAX NO:	FAX AND MAIL REPORTS/EDD TO : RECIPIENT 3 (Name and Company)	RECIPIENT 3 (Address, Tel No , and Fax No.):
Keith Conn	Ph:(904)777-4812 Fax:(904) 777-4262	Ph:(802) 655-1203	Lisa Schwan / CH2M Hill Constuctors, Inc.	115 Perimeter Center Place, N.E. Suite 700 Atlanta, GA 30346 (770)604-9182 Ext.561 FAX:604-9282

ANALYSES REQUIRED (Include Method Numbers)

ITEM	SAMPLE IDENTIFIER	SAMPLE DESCRIPTION/LOCATION	MATRIX (see codes on back)	DATE COLLECTED	TIME COLLECTED	DATA PKG LEVEL (see codes on back)	TAT (calendar days)	Volatiles by 18 / TO 14										SAMPLE TYPE (see codes on back)	COMMENTS/ SCREENING READINGS	LAB ID
1	029-ACA-I-A-0724-00-02	Pre Carbon Units	A	07/24/00	14:40	III/B	7	1										Grab	Summa Canister (6020)	96557
2	029-ACA2-I-A-0724-00-02	Mid Carbon Units	A	07/24/00	14:45	III/B	7	1										Grab	Summa Canister (6005)	96558
3	029-ACA-E-A-0724-00-02	Post Carbon Units	A	07/24/00	14:50	III/B	7	1										Grab	Summa Canister (6112)	96559
4																				
5																				
6																				
7																				
8																				
9																				
10																				

SAMPLER(S) AND COMPANY (please print)	COURIER AND SHIPPING NUMBER:	SAMPLES TEMPERATURE AND CONDITION UPON RECEIPT:
Randy Dumaop J.A. Jones Environmental Services	Federal Express TRK# 791117037558	

RELINQUISHED BY	DATE	TIME	RECEIVED BY	DATE	TIME
Printed Name and Signature			Printed Name and Signature		
R.Dumaop	7/25/00	11:00	Federal Express TRK# 791117037558	7/25/00	11:00
Printed Name and Signature			Printed Name and Signature		
Printed Name and Signature			Printed Name and Signature:		

07/31/00 MON 10:16 FAX 9047774262 CH2M HILL CONSTRUCTORS 005

SEVERN TRENT SERVICES

STL Burlington

SAMPLE DATA SUMMARY PACKAGE

SDG NO: 79113

SEVERN TRENT SERVICES

STL Burlington
Suite 1
208 South Park Drive
Colchester, VT 05446

Tel: 802 655 1203
Fax: 802 655 1248
www.stl-inc.com

August 2, 2000

Mr. Jeff Wilmoth
Accura Analytical Laboratories
6017 Financial Drive
Norcross, GA 30071

Re: Laboratory Project No. 20031
Case: 20031; SDG:79113

Dear Mr. Wilmoth:

Enclosed are the analytical results of samples received intact by Severn Trent Laboratories on July 27, 2000. Laboratory numbers have been assigned and designated as follows:

Lab ID	Client Sample ID	Sample Date	Sample Matrix
	Received: 7/27/00 ETR No: 79113		
425405	029ACAIA07240002	07/24/00	Air
425406	029ACA2IA07240002	07/24/00	Air
425407	029ACAEA07240002	07/24/00	Air

Method TO-14A Modified-Volatile Organics;
Please note due to a limitation of characters inherent in the reporting software, the first six characters of the client identification above were truncated.

Please note that the original volatile organic analysis of sample I072400002 was accomplished at a dilution based upon initial screen data that indicated target compound Xylene (m,p) was present at concentrations that would have been above the calibration in a full strength acquisition. This sample was subsequently reanalyzed at an appropriate dilution yielding acceptable results. Both sets of results have been presented in this submittal.

If there are any questions regarding this submittal, please contact Ron Pentkowski at (802) 655-1203.

Sincerely,

Christopher A. Ouellette
Laboratory Director

Enclosure

SEVERN TRENT SERVICES

STL Burlington
Suite 1
208 South Park Drive
Colchester, VT 05446

Tel: 802 655 1203
Fax: 802 655 1248
www.stl-inc.com

August 2, 2000

Mr. Jeff Wilmoth
Accura Analytical Laboratories
6017 Financial Drive
Norcross, GA 30071

Re: Laboratory Project No. 20020
Project Name: NAS Jacksonville, FL
Case: 20020; SDG: 79066

Dear Mr. Wilmoth:

Enclosed are the results of analyses performed on samples received at Severn Trent Laboratories on July 25, and 28, 2000. Laboratory numbers have been assigned and designated as follows:

Lab ID	Client Sample ID	Sample Date	Sample Matrix
	Received: 7/25/00 ETR No: 79006		
424985	028SVE106EA07200028	07/20/00	Air

Method TO-14A Modified-Volatile Organics;
Please note due to a limitation of characters inherent in the reporting software, the first six characters of the client identification above were truncated.

The laboratory noted no exceptions to method quality control requirements for this analytical work.

If there are any questions regarding this submittal, please contact Ron Pentkowski at (802) 655-1203.

Sincerely,

Christopher A. Ouellette
Laboratory Director

Enclosure

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

ACCANA SAMPLE NO.

2IA07240002

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 79113

Matrix: (soil/water) AIR Lab Sample ID: 425406

Sample wt/vol: 200 (g/mL) ML Lab File ID: 425406D

Level: (low/med) LOW Date Received: 07/24/00

% Moisture: not dec. _____ Date Analyzed: 07/28/00

GC Column: DB-1 ID: 0.35 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) PPBV	Q
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl Chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-09-2	Methylene Chloride	2.3	
75-34-3	1,1-Dichloroethane	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
56-23-5	Carbon Tetrachloride	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-88-3	Toluene	0.50	U
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
1330-20-7	Xylene (total)	0.50	U
100-42-5	Styrene	0.50	U
1330-20-7	Xylene (m,p)	0.50	U
95-47-6	Xylene (o)	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

ACCANA SAMPLE NO.

EA072400002

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 79113

Matrix: (soil/water) AIR Lab Sample ID: 425407

Sample wt/vol: 200 (g/mL) ML Lab File ID: 425407

Level: (low/med) LOW Date Received: 07/27/00

% Moisture: not dec. _____ Date Analyzed: 07/28/00

GC Column: DB-1 ID: 0.35 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) PPBV	Q
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl Chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-09-2	Methylene Chloride	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
56-23-5	Carbon Tetrachloride	0.50	U
71-43-2	Benzene	24	
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-88-3	Toluene	0.50	U
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.51	
1330-20-7	Xylene (total)	6.0	
100-42-5	Styrene	0.50	U
1330-20-7	Xylene (m,p)	3.7	
95-47-6	Xylene (o)	2.3	
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

ACCANA SAMPLE NO.

I072400002

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 79113

Matrix: (soil/water) AIR Lab Sample ID: 425405

Sample wt/vol: 200 (g/mL) ML Lab File ID: 425405D

Level: (low/med) LOW Date Received: 07/27/00

% Moisture: not dec. _____ Date Analyzed: 07/28/00

GC Column: DB-1 ID: 0.35 (mm) Dilution Factor: 2.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) PPBV	Q
74-87-3	Chloromethane	1.0	U
75-01-4	Vinyl Chloride	1.0	U
74-83-9	Bromomethane	1.0	U
75-00-3	Chloroethane	1.0	U
75-69-4	Trichlorofluoromethane	1.0	U
75-09-2	Methylene Chloride	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
67-66-3	Chloroform	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
56-23-5	Carbon Tetrachloride	1.0	U
71-43-2	Benzene	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
79-01-6	Trichloroethene	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	U
108-88-3	Toluene	1.0	
10061-02-6	trans-1,3-Dichloropropene	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
127-18-4	Tetrachloroethene	1.0	U
108-90-7	Chlorobenzene	1.0	U
100-41-4	Ethylbenzene	48	
1330-20-7	Xylene (total)	230	
100-42-5	Styrene	1.0	U
1330-20-7	Xylene (m,p)	180	E
95-47-6	Xylene (o)	51	
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

ACCANA SAMPLE NO.

I072400002DL

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 79113

Matrix: (soil/water) AIR Lab Sample ID: 425405D1

Sample wt/vol: 200 (g/mL) ML Lab File ID: 425405D2

Level: (low/med) LOW Date Received: 07/27/00

% Moisture: not dec. _____ Date Analyzed: 07/28/00

GC Column: DB-1 ID: 0.35 (mm) Dilution Factor: 8.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) PPBV	Q
74-87-3	Chloromethane	4.0	U
75-01-4	Vinyl Chloride	4.0	U
74-83-9	Bromomethane	4.0	U
75-00-3	Chloroethane	4.0	U
75-69-4	Trichlorofluoromethane	4.0	U
75-09-2	Methylene Chloride	4.0	U
75-34-3	1,1-Dichloroethane	4.0	U
67-66-3	Chloroform	4.0	U
71-55-6	1,1,1-Trichloroethane	4.0	U
56-23-5	Carbon Tetrachloride	4.0	U
71-43-2	Benzene	4.0	U
107-06-2	1,2-Dichloroethane	4.0	U
79-01-6	Trichloroethene	4.0	U
78-87-5	1,2-Dichloropropane	4.0	U
10061-01-5	cis-1,3-Dichloropropene	4.0	U
108-88-3	Toluene	4.0	U
10061-02-6	trans-1,3-Dichloropropene	4.0	U
79-00-5	1,1,2-Trichloroethane	4.0	U
127-18-4	Tetrachloroethene	4.0	U
108-90-7	Chlorobenzene	4.0	U
100-41-4	Ethylbenzene	62	D
1330-20-7	Xylene (total)	300	D
100-42-5	Styrene	4.0	U
1330-20-7	Xylene (m,p)	230	D
95-47-6	Xylene (o)	63	D
79-34-5	1,1,2,2-Tetrachloroethane	4.0	U
541-73-1	1,3-Dichlorobenzene	4.0	U
106-46-7	1,4-Dichlorobenzene	4.0	U
95-50-1	1,2-Dichlorobenzene	4.0	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ABLKR5

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 79113

Matrix: (soil/water) AIR Lab Sample ID: ABLKR5

Sample wt/vol: 200 (g/mL) ML Lab File ID: CBB001I

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

% Moisture: not dec. _____ Date Analyzed: 07/28/00

GC Column: DB-1 ID: 0.35 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) PPBV	Q
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl Chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-09-2	Methylene Chloride	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
56-23-5	Carbon Tetrachloride	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-88-3	Toluene	0.50	U
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
1330-20-7	Xylene (total)	0.50	U
100-42-5	Styrene	0.50	U
1330-20-7	Xylene (m,p)	0.50	U
95-47-6	Xylene (o)	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ICV_LCS

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 79113

Matrix: (soil/water) AIR Lab Sample ID: ICV_LCS

Sample wt/vol: 200 (g/mL) ML Lab File ID: CB010Q

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

% Moisture: not dec. _____ Date Analyzed: 07/10/00

GC Column: DB-1 ID: 0.35 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) PPBV	Q
74-87-3	Chloromethane	11	
75-01-4	Vinyl Chloride	11	
74-83-9	Bromomethane	10	
75-00-3	Chloroethane	11	
75-69-4	Trichlorofluoromethane	10	
75-09-2	Methylene Chloride	10	
75-34-3	1,1-Dichloroethane	11	
67-66-3	Chloroform	11	
71-55-6	1,1,1-Trichloroethane	11	
56-23-5	Carbon Tetrachloride	10	
71-43-2	Benzene	10	
107-06-2	1,2-Dichloroethane	10	
79-01-6	Trichloroethene	10	
78-87-5	1,2-Dichloropropane	10	
10061-01-5	cis-1,3-Dichloropropene	11	
108-88-3	Toluene	9.3	
10061-02-6	trans-1,3-Dichloropropene	11	
79-00-5	1,1,2-Trichloroethane	10	
127-18-4	Tetrachloroethene	9.2	
108-90-7	Chlorobenzene	9.0	
100-41-4	Ethylbenzene	9.4	
1330-20-7	Xylene (total)	28	
100-42-5	Styrene	8.8	
1330-20-7	Xylene (m,p)	18	
95-47-6	Xylene (o)	9.3	
79-34-5	1,1,2,2-Tetrachloroethane	9.3	
541-73-1	1,3-Dichlorobenzene	9.0	
106-46-7	1,4-Dichlorobenzene	8.0	
95-50-1	1,2-Dichlorobenzene	8.6	

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

R5_LCS

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 79113

Matrix: (soil/water) AIR Lab Sample ID: R5_LCS

Sample wt/vol: 200 (g/mL) ML Lab File ID: CB010IQ

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

% Moisture: not dec. _____ Date Analyzed: 07/28/00

GC Column: DB-1 ID: 0.35 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) PPBV	Q
74-87-3	Chloromethane	11	
75-01-4	Vinyl Chloride	12	
74-83-9	Bromomethane	11	
75-00-3	Chloroethane	12	
75-69-4	Trichlorofluoromethane	12	
75-09-2	Methylene Chloride	11	
75-34-3	1,1-Dichloroethane	12	
67-66-3	Chloroform	12	
71-55-6	1,1,1-Trichloroethane	12	
56-23-5	Carbon Tetrachloride	11	
71-43-2	Benzene	11	
107-06-2	1,2-Dichloroethane	12	
79-01-6	Trichloroethene	11	
78-87-5	1,2-Dichloropropane	12	
10061-01-5	cis-1,3-Dichloropropene	12	
108-88-3	Toluene	12	
10061-02-6	trans-1,3-Dichloropropene	12	
79-00-5	1,1,2-Trichloroethane	11	
127-18-4	Tetrachloroethene	11	
108-90-7	Chlorobenzene	11	
100-41-4	Ethylbenzene	12	
1330-20-7	Xylene (total)	35	
100-42-5	Styrene	11	
1330-20-7	Xylene (m,p)	23	
95-47-6	Xylene (o)	12	
79-34-5	1,1,2,2-Tetrachloroethane	12	
541-73-1	1,3-Dichlorobenzene	10	
106-46-7	1,4-Dichlorobenzene	11	
95-50-1	1,2-Dichlorobenzene	11	

FORM 3
AIR VOLATILE LAB CONTROL SAMPLE

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 79113

Matrix Spike - Sample No.: ICV_LCS

COMPOUND	SPIKE ADDED (ppbv)	SAMPLE CONCENTRATION (ug/L)	LCS CONCENTRATION (ppbv)	LCS % REC #	QC. LIMITS REC.
Chloromethane	10		11	110	70-130
Vinyl Chloride	10		11	110	70-130
Bromomethane	10		10	100	70-130
Chloroethane	10		11	110	70-130
Trichlorofluoromethane	10		10	100	70-130
Methylene Chloride	10		10	100	70-130
1,1-Dichloroethane	10		11	110	70-130
Chloroform	10		11	110	70-130
1,1,1-Trichloroethane	10		11	110	70-130
Carbon Tetrachloride	10		10	100	70-130
Benzene	10		10	100	70-130
1,2-Dichloroethane	10		10	100	70-130
Trichloroethene	10		10	100	70-130
1,2-Dichloropropane	10		10	100	70-130
cis-1,3-Dichloropropene	10		11	110	70-130
Toluene	10		9.3	93	70-130
trans-1,3-Dichloroprope	10		11	110	70-130
1,1,2-Trichloroethane	10		10	100	70-130
Tetrachloroethene	10		9.2	92	70-130
Chlorobenzene	10		9.0	90	70-130
Ethylbenzene	10		9.4	94	70-130
Styrene	10		8.8	88	70-130
Xylene (m,p)	20		18	90	70-130
Xylene (o)	10		9.3	93	70-130
1,1,2,2-Tetrachloroetha	10		9.3	93	70-130
1,3-Dichlorobenzene	10		9.0	90	70-130
1,4-Dichlorobenzene	10		8.0	80	70-130
1,2-Dichlorobenzene	10		8.6	86	70-130

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

* Values outside of QC limits

RPD: 0 out of 0 outside limits
Spike Recovery: 0 out of 28 outside limits

COMMENTS: _____

FORM 3
AIR VOLATILE LAB CONTROL SAMPLE

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 79113

Matrix Spike - Sample No.: R5_LCS

COMPOUND	SPIKE ADDED (ppbv)	SAMPLE CONCENTRATION (ug/L)	LCS CONCENTRATION (ppbv)	LCS % REC #	QC. LIMITS REC.
Chloromethane	10		11	110	70-130
Vinyl Chloride	10		12	120	70-130
Bromomethane	10		11	110	70-130
Chloroethane	10		12	120	70-130
Trichlorofluoromethane	10		12	120	70-130
Methylene Chloride	10		11	110	70-130
1,1-Dichloroethane	10		12	120	70-130
Chloroform	10		12	120	70-130
1,1,1-Trichloroethane	10		12	120	70-130
Carbon Tetrachloride	10		11	110	70-130
Benzene	10		11	110	70-130
1,2-Dichloroethane	10		12	120	70-130
Trichloroethene	10		11	110	70-130
1,2-Dichloropropane	10		12	120	70-130
cis-1,3-Dichloropropene	10		12	120	70-130
Toluene	10		12	120	70-130
trans-1,3-Dichloroprope	10		12	120	70-130
1,1,2-Trichloroethane	10		11	110	70-130
Tetrachloroethene	10		11	110	70-130
Chlorobenzene	10		11	110	70-130
Ethylbenzene	10		12	120	70-130
Styrene	10		11	110	70-130
Xylene (m,p)	20		23	115	70-130
Xylene (o)	10		12	120	70-130
1,1,2,2-Tetrachloroetha	10		12	120	70-130
1,3-Dichlorobenzene	10		10	100	70-130
1,4-Dichlorobenzene	10		11	110	70-130
1,2-Dichlorobenzene	10		11	110	70-130

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

* Values outside of QC limits

RPD: 0 out of 0 outside limits
Spike Recovery: 0 out of 28 outside limits

COMMENTS: _____

FORM 4
VOLATILE METHOD BLANK SUMMARY

CLIENT SAMPLE NO.

ABLKR5

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 79113

Lab File ID: CBB001I Lab Sample ID: ABLKR5

Date Analyzed: 07/28/00 Time Analyzed: 0756

GC Column: DB-1 ID: 0.35 (mm) Heated Purge: (Y/N) N

Instrument ID: W

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

	SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	R5_LCS	R5_LCS	CB010IQ	0724
02	EA072400002	425407	425407	1125
03	I072400002	425405	425405D	1159
04	2IA07240002	425406	425406D	1234
05	I072400002DL	425405D1	425405D2	1321
06				
07				
08				
09				
10				
11				
12				
13				
14				
15				
16				
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27				
28				
29				
30				

COMMENTS:

FORM 5
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 79113

Lab File ID: CB001P BFB Injection Date: 07/10/00

Instrument ID: W BFB Injection Time: 0831

GC Column: DB-1 ID: 0.32 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	22.0
75	30.0 - 66.0% of mass 95	49.8
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.6
173	Less than 2.0% of mass 174	0.1 (0.2)1
174	50.0 - 120.0% of mass 95	69.8
175	4.0 - 9.0% of mass 174	4.9 (7.0)1
176	93.0 - 101.0% of mass 174	65.5 (93.8)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	ASTD005	ASTD005	CB005	07/10/00	1021
02	ASTD010	ASTD010	CB010	07/10/00	1055
03	ASTD020	ASTD020	CB020	07/10/00	1131
04	ASTD040	ASTD040	CB040	07/10/00	1208
05	ASTD0005	ASTD0005	CB0005I2	07/10/00	1337
06	ICV_LCS	ICV_LCS	CB0[illegible]Q	07/10/00	141[illegible]
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

FORM 5
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 79113

Lab File ID: CB009P BFB Injection Date: 07/28/00

Instrument ID: W BFB Injection Time: 0626

GC Column: DB-1 ID: 0.32 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	22.5
75	30.0 - 66.0% of mass 95	48.9
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.5
173	Less than 2.0% of mass 174	0.5 (0.7)1
174	50.0 - 120.0% of mass 95	67.2
175	4.0 - 9.0% of mass 174	4.7 (7.1)1
176	93.0 - 101.0% of mass 174	63.2 (94.0)1
177	5.0 - 9.0% of mass 176	4.0 (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	ASTD010	ASTD010	CB010I	07/28/00	0648
02	R5_LCS	R5_LCS	CB010IQ	07/28/00	0724
03	ABLKR5	ABLKR5	CBB001I	07/28/00	0756
04	EA072400002	425407	425407	07/28/00	1125
05	I072400002	425405	425405D	07/28/00	1159
06	2IA07240002	425406	425406D	07/28/00	1234
07	I072400002DL	425405D1	425405D2	07/28/00	1321
08					
09					
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22					

6A

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 79113

Instrument ID: W Calibration Date(s): 07/10/00 07/10/00

Heated Purge: (Y/N) N Calibration Time(s): 1021 1337

GC Column: DB-1 ID: 0.35 (mm)

LAB FILE ID: RRF0.5=CB0005I2 RRF5 =CB005
RRF10 =CB010 RRF20 =CB020 RRF40 =CB040

COMPOUND		RRF0.5	RRF5	RRF10	RRF20	RRF40	$\overline{RRF}$	% RSD
Chloromethane	*	0.968	0.672	0.708	0.648	0.627	0.725	19.2*
Vinyl Chloride		0.928	0.775	0.792	0.716	0.704	0.783	11.4
Bromomethane		1.272	1.006	1.018	0.896	0.861	1.011	16.0
Chloroethane		0.540	0.458	0.450	0.408	0.435	0.458	10.8
Trichlorofluoromethane		3.108	2.834	2.601	2.153	2.244	2.588	15.4
Methylene Chloride		1.676	1.157	1.130	0.952	0.926	1.168	25.8
1,1-Dichloroethane	*	2.306	1.944	1.891	1.731	1.542	1.883	15.1*
Chloroform		2.896	2.499	2.405	2.184	2.011	2.399	14.0
1,1,1-Trichloroethane		2.670	2.427	2.324	2.119	1.930	2.294	12.4
Carbon Tetrachloride		0.543	0.556	0.512	0.466	0.409	0.497	12.1
Benzene		0.801	0.723	0.686	0.638	0.575	0.685	12.5
1,2-Dichloroethane		1.943	1.791	1.690	1.552	1.436	1.682	11.8
Trichloroethene		0.350	0.347	0.320	0.298	0.259	0.315	12.0
1,2-Dichloropropane		0.294	0.287	0.267	0.245	0.216	0.262	12.2
cis-1,3-Dichloropropene		0.418	0.434	0.425	0.409	0.366	0.410	6.4
Toluene		0.479	0.578	0.552	0.489	0.408	0.501	13.3
trans-1,3-Dichloropropene		0.318	0.329	0.332	0.322	0.298	0.320	4.2
1,1,2-Trichloroethane		0.303	0.303	0.282	0.255	0.224	0.273	12.4
Tetrachloroethene		0.348	0.439	0.412	0.369	0.304	0.374	14.3
Chlorobenzene	*	0.624	0.767	0.717	0.622	0.508	0.648	15.4*
Ethylbenzene		0.952	1.346	1.290	1.111	0.899	1.120	17.7
Xylene (total)		1.004	1.431	1.378	1.236	1.055	1.221	15.5
Styrene		0.330	0.648	0.638	0.582	0.509	0.541	24.1
Xylene (m,p)		0.344	0.481	0.460	0.413	0.353	0.410	15.0
Xylene (o)		0.317	0.470	0.458	0.410	0.349	0.401	16.6
1,1,2,2-Tetrachloroethane		0.510	0.870	0.803	0.688	0.558	0.686	22.5
1,3-Dichlorobenzene		0.396	0.768	0.757	0.655	0.530	0.621	25.4
1,4-Dichlorobenzene		0.481	0.748	0.726	0.660	0.581	0.639	17.2
1,2-Dichlorobenzene		0.281	0.655	0.648	0.582	0.490	0.531	29.2

* Compounds with required minimum RRF and maximim %RSD values.
All other compounds must meet a minimim RRF of 0.010.

FORM 7
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 79113

Instrument ID: W Calibration Date: 07/28/00 Time: 0648

Lab File ID: CB010I Init. Calib. Date(s): 07/10/00 07/10/00

Heated Purge: (Y/N) N Init. Calib. Times: 1021 1337

GC Column: DB-1 ID: 0.35 (mm)

COMPOUND	$\overline{RRF}$	RRF10	MIN RRF	%D	MAX %D
Chloromethane	0.725	0.755	0.1	4.1	30.0
Vinyl Chloride	0.783	0.832	0.01	6.2	30.0
Bromomethane	1.011	1.068	0.01	5.6	30.0
Chloroethane	0.458	0.503	0.01	9.8	30.0
Trichlorofluoromethane	2.588	2.854	0.01	10.3	30.0
Methylene Chloride	1.168	1.243	0.01	6.4	30.0
1,1-Dichloroethane	1.883	2.084	0.1	10.7	30.0
Chloroform	2.399	2.655	0.01	10.7	30.0
1,1,1-Trichloroethane	2.294	2.564	0.01	11.8	30.0
Carbon Tetrachloride	0.497	0.542	0.01	9.0	30.0
Benzene	0.685	0.723	0.01	5.5	30.0
1,2-Dichloroethane	1.682	1.845	0.01	9.7	30.0
Trichloroethene	0.315	0.343	0.01	8.9	30.0
1,2-Dichloropropane	0.262	0.287	0.01	9.5	30.0
cis-1,3-Dichloropropene	0.410	0.472	0.01	15.1	30.0
Toluene	0.501	0.540	0.01	7.8	30.0
trans-1,3-Dichloropropene	0.320	0.367	0.01	14.7	30.0
1,1,2-Trichloroethane	0.273	0.300	0.01	9.9	30.0
Tetrachloroethene	0.374	0.396	0.01	5.9	30.0
Chlorobenzene	0.648	0.705	0.3	8.8	30.0
Ethylbenzene	1.120	1.230	0.01	9.8	30.0
Xylene (total)	1.221	1.333	0.01	9.2	30.0
Styrene	0.541	0.609	0.01	12.6	30.0
Xylene (m,p)	0.410	0.446	0.01	8.8	30.0
Xylene (o)	0.401	0.441	0.01	10.0	30.0
1,1,2,2-Tetrachloroethane	0.686	0.780	0.01	13.7	30.0
1,3-Dichlorobenzene	0.621	0.673	0.01	8.4	30.0
1,4-Dichlorobenzene	0.639	0.710	0.01	11.1	30.0
1,2-Dichlorobenzene	0.531	0.604	0.01	13.7	30.0

FORM 8
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 79113

Lab File ID (Standard): CB010I Date Analyzed: 07/28/00

Instrument ID: W Time Analyzed: 0648

GC Column: DB-1 ID: 0.35 (mm) Heated Purge: (Y/N) N

		IS1 (BCM) AREA #	RT #	IS2 (CBZ) AREA #	RT #	IS3 (DFB) AREA #	RT #
	12 HOUR STD	333811	7.64	1685747	11.84	1585181	8.97
	UPPER LIMIT	801146	7.97	4045793	12.17	3804434	9.30
	LOWER LIMIT	133524	7.31	674299	11.51	634072	8.64
	CLIENT SAMPLE NO.						
01	R5_LCS	329587	7.65	1607941	11.84	1591854	8.99
02	ABLKR5	378092	7.61	1764024	11.83	1814347	8.96
03	EA072400002	293352	7.59	1879970	11.87	1414979	8.97
04	I072400002	348786	7.64	1926014	11.84	1529762	8.97
05	2IA07240002	431651	7.62	2411386	11.82	2145048	8.96
06	I072400002DL	491414	7.62	2623499	11.84	2413496	8.96
07							
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22							

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

AREA UPPER LIMIT = +140% of internal standard area
AREA LOWER LIMIT = - 60% of internal standard area
RT UPPER LIMIT = + 0.33 minutes of internal standard RT
RT LOWER LIMIT = - 0.33 minutes of internal standard RT

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

79113

Committed To *Your* Success

NARRATIVE

SEVERN TRENT SERVICES

STL Burlington
Suite 1
208 South Park Drive
Colchester, VT 05446

Tel: 802 655 1203
Fax: 802 655 1248
www.stl-inc.com

August 2, 2000

Mr. Jeff Wilmoth
Accura Analytical Laboratories
6017 Financial Drive
Norcross, GA 30071

Re: Laboratory Project No. 20031
Case: 20031; SDG:79113

Dear Mr. Wilmoth:

Enclosed are the analytical results of samples received intact by Severn Trent Laboratories on July 27, 2000. Laboratory numbers have been assigned and designated as follows:

Lab ID	Client Sample ID	Sample Date	Sample Matrix
	Received: 7/27/00 ETR No: 79113		
425405	029ACAIA07240002	07/24/00	Air
425406	029ACA2IA07240002	07/24/00	Air
425407	029ACAEA07240002	07/24/00	Air

Method TO-14 Modified-Volatile Organics;
Please note due to a limitation of characters inherent in the reporting software, the first six characters of the client identification above were truncated.

Please note that the original volatile organic analysis of sample I072400002 was accomplished at a dilution based upon initial screen data that indicated target compound Xylene (m,p) was present at concentrations that would have been above the calibration in a full strength acquisition. This sample was subsequently reanalyzed at an appropriate dilution yielding acceptable results. Both sets of results have been presented in this submittal

If there are any questions regarding this submittal, please contact Ron Pentkowski at (802) 655-1203.

Sincerely,

Christopher A. Ouellette
Laboratory Director

Enclosure

SEVERN TRENT SERVICES

STL Burlington
Suite 1
208 South Park Drive
Colchester, VT 05446

Tel: 802 655 1203
Fax: 802 655 1248
www.stl-inc.com

August 2, 2000

Mr. Jeff Wilmoth
Accura Analytical Laboratories
6017 Financial Drive
Norcross, GA 30071

Re: Laboratory Project No. 20020
Project Name: NAS Jacksonville, FL
Case: 20020; SDG: 79066

Dear Mr. Wilmoth:

Enclosed are the results of analyses performed on samples received at Severn Trent Laboratories on July 25, and 28, 2000. Laboratory numbers have been assigned and designated as follows:

Lab ID	Client Sample ID	Sample Date	Sample Matrix
	Received: 7/25/00 ETR No: 79006		
424985	028SVE106EA07200028	07/20/00	Air

Method TO-14A Modified-Volatile Organics;
Please note due to a limitation of characters inherent in the reporting software, the first six characters of the client identification above were truncated.

The laboratory noted no exceptions to method quality control requirements for this analytical work.

If there are any questions regarding this submittal, please contact Ron Pentkowski at (802) 655-1203.

Sincerely,

Christopher A. Ouellette
Laboratory Director

Enclosure

SEVERN TRENT SERVICES

STL Burlington

The following Qualifiers may be used when reporting any Organic parameters analyzed by Gas Chromatography/mass Spectometry (GCMS). Any additional qualifiers used in the reports will be described in the case narrative. These flags are based on the EPA Contract Laboratory Program statement of work.

GC/MS Qualifiers

A- The reported Tentatively Identified Compound (TIC) is a suspected Aldol-condensation product.

B- The reported analyte was detected in the associated method blank as well as the sample.

D - This flag identifies all compounds identified in an analysis at a secondary dilution factor. This flag alerts data users that any discrepancies between the concentrations reported for the dilutions may be due to dilution of the sample or extract. It additionally indicates that spike recoveries may have been diluted below quantifiable levels.

E- Compound quantitation is above the instrument's calibration range for this analysis.

J - Indicates an estimated value.

U- Indicates compound was analyzed for but not detected above the reporting limit.

X,Y,Z - Laboratory defined flags. These flags must be fully described, and such description attached to the Sample Data Summary Package and the case Narrative. Begin by using "X" and go on to "Y" as necessary. These flags may also be used to combine several flags, as needed.

CH2M Hill Constructors, Inc.
115 Perimeter Center Place, Suite 700
Atlanta, GA 30346-1278
Tel No (770) 604-9182 ; Fax No (770) 604-9282

CHAIN-OF-CUSTODY RECORD

COC NUMBER
154282-01

PROJECT NAME	PROJECT NUMBER	LAB NAME AND CONTACT	FAX AND MAIL REPORTS/EDD TO RECIPIENT 1 (Name and Company)	RECIPIENT 1 (Address, Tel No , and Fax No)
N.A.S Cecil Field 103rd Street	154282	Severn Trent Laboratories/ Ron Pentkowski	Jeff Wilmoth Accura Analytical Laboratory	6017 Financial Drive Norcross, GA 30071 (770) 449-8800 Fax:(770) 449-5477
PROJECT PHASE/SITE/TASK	CTO OR DO NUMBER	LAB PO NUMBER	FAX AND MAIL REPORTS/EDD TO RECIPIENT 2 (Name and Company)	RECIPIENT 2 (Address, Tel No , and Fax No)
103rd Street Monthly Air	0029	1760	Keith Conn / J.A Jones Env. Services	6219 Authority Ave. Building 1 Jacksonville, FL 32215 (904) 7774812 FAX: (904) 7774262
PROJECT CONTACT:	PROJECT TEL NO AND FAX NO	LAB TEL NO AND FAX NO	FAX AND MAIL REPORTS/EDD TO RECIPIENT 3 (Name and Company)	RECIPIENT 3 (Address, Tel No , and Fax No)
Keith Conn	Ph:(904)777-4812 Fax:(904) 777-4262	Ph:(802) 655-1203	Lisa Schwan / CH2M Hill Constuctors, Inc.	115 Perimeter Center Place, N.E. Suite 700 Atlanta, GA 30346 (770)604-9182 Ext.561 FAX:604-9282

ITEM	SAMPLE IDENTIFIER	SAMPLE DESCRIPTION/LOCATION	MATRIX (see codes on back)	DATE COLLECTED	TIME COLLECTED	DATA PKG LEVEL (see codes on back)	TAT (calendar days)	ANALYSES REQUIRED (Include Method Numbers) Volatiles by 18 / TO 14										SAMPLE TYPE (see codes on back)	COMMENTS/ SCREENING READINGS	LAB ID
1	029-ACA-I-A-0724-00-02	Pre Carbon Units	A	07/24/00	14:40	III/B	7	1										Grab	Summa Canister (6020)	
2	029-ACA2-I-A-0724-00-02	Mid Carbon Units	A	07/24/00	14:45	III/B	7	1										Grab	Summa Canister (6005)	
3	029-ACA-E-A-0724-00-02	Post Carbon Units	A	07/24/00	14:50	III/B	7	1										Grab	Summa Canister (6112)	
4																				
5																				
6																				
7																				
8																				
9																				
10																				

SAMPLER(S) AND COMPANY. (please print)	COURIER AND SHIPPING NUMBER	SAMPLES TEMPERATURE AND CONDITION UPON RECEIPT
Randy Dumaop J.A. Jones Environmental Services	Federal Express TRK# 791117037558	

RELINQUISHED BY	DATE	TIME	RECEIVED BY	DATE	TIME
Printed Name and Signature:			Printed Name and Signature		
R.Dumaop	7/25/00	11:00	Federal Express TRK# 791117037558	7/25/00	11:00
Printed Name and Signature:			Printed Name and Signature		
Printed Name and Signature:			Printed Name and Signature		
			Frank Bessette	7-27-00	0915

METHOD TO-14A
VOLATILE ORGANIC ANALYSIS

QC SUMMARY

FORM 3
AIR VOLATILE LAB CONTROL SAMPLE

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 79113

Matrix Spike - Sample No.: ICV_LCS

COMPOUND	SPIKE ADDED (ppbv)	SAMPLE CONCENTRATION (ug/L)	LCS CONCENTRATION (ppbv)	LCS % REC #	QC. LIMITS REC.
Chloromethane	10		11	110	70-130
Vinyl Chloride	10		11	110	70-130
Bromomethane	10		10	100	70-130
Chloroethane	10		11	110	70-130
Trichlorofluoromethane	10		10	100	70-130
Methylene Chloride	10		10	100	70-130
1,1-Dichloroethane	10		11	110	70-130
Chloroform	10		11	110	70-130
1,1,1-Trichloroethane	10		11	110	70-130
Carbon Tetrachloride	10		10	100	70-130
Benzene	10		10	100	70-130
1,2-Dichloroethane	10		10	100	70-130
Trichloroethene	10		10	100	70-130
1,2-Dichloropropane	10		10	100	70-130
cis-1,3-Dichloropropene	10		11	110	70-130
Toluene	10		9.3	93	70-130
trans-1,3-Dichloroprope	10		11	110	70-130
1,1,2-Trichloroethane	10		10	100	70-130
Tetrachloroethene	10		9.2	92	70-130
Chlorobenzene	10		9.0	90	70-130
Ethylbenzene	10		9.4	94	70-130
Styrene	10		8.8	88	70-130
Xylene (m,p)	20		18	90	70-130
Xylene (o)	10		9.3	93	70-130
1,1,2,2-Tetrachloroetha	10		9.3	93	70-130
1,3-Dichlorobenzene	10		9.0	90	70-130
1,4-Dichlorobenzene	10		8.3	83	70-130
1,2-Dichlorobenzene	10		8.6	86	70-130

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

* Values outside of QC limits

RPD: 0 out of 0 outside limits
Spike Recovery: 0 out of 28 outside limits

COMMENTS: _____

FORM 3
AIR VOLATILE LAB CONTROL SAMPLE

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 79113

Matrix Spike - Sample No.: R5_LCS

COMPOUND	SPIKE ADDED (ppbv)	SAMPLE CONCENTRATION (ug/L)	LCS CONCENTRATION (ppbv)	LCS % REC #	QC. LIMITS REC.
Chloromethane	10		11	110	70-130
Vinyl Chloride	10		12	120	70-130
Bromomethane	10		11	110	70-130
Chloroethane	10		12	120	70-130
Trichlorofluoromethane	10		12	120	70-130
Methylene Chloride	10		11	110	70-130
1,1-Dichloroethane	10		12	120	70-130
Chloroform	10		12	120	70-130
1,1,1-Trichloroethane	10		12	120	70-130
Carbon Tetrachloride	10		11	110	70-130
Benzene	10		11	110	70-130
1,2-Dichloroethane	10		12	120	70-130
Trichloroethene	10		11	110	70-130
1,2-Dichloropropane	10		12	120	70-130
cis-1,3-Dichloropropene	10		12	120	70-130
Toluene	10		12	120	70-130
trans-1,3-Dichloroprope	10		12	120	70-130
1,1,2-Trichloroethane	10		11	110	70-130
Tetrachloroethene	10		11	110	70-130
Chlorobenzene	10		11	110	70-130
Ethylbenzene	10		12	120	70-130
Styrene	10		11	110	70-130
Xylene (m,p)	20		23	115	70-130
Xylene (o)	10		12	120	70-130
1,1,2,2-Tetrachloroetha	10		12	120	70-130
1,3-Dichlorobenzene	10		10	100	70-130
1,4-Dichlorobenzene	10		11	110	70-130
1,2-Dichlorobenzene	10		11	110	70-130

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

* Values outside of QC limits

RPD: 0 out of 0 outside limits
Spike Recovery: 0 out of 28 outside limits

COMMENTS: _____

FORM 4
VOLATILE METHOD BLANK SUMMARY

CLIENT SAMPLE NO.

ABLKR5

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 79113

Lab File ID: CBB001I Lab Sample ID: ABLKR5

Date Analyzed: 07/28/00 Time Analyzed: 0756

GC Column: DB-1 ID: 0.35 (mm) Heated Purge: (Y/N) N

Instrument ID: W

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

	SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	R5_LCS	R5_LCS	CB010IQ	0724
02	EA072400002	425407	425407	1125
03	I072400002	425405	425405D	1159
04	2IA07240002	425406	425406D	1234
05	I072400002DL	425405D1	425405D2	1321
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COMMENTS:

FORM 5
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 79113

Lab File ID: CB001P BFB Injection Date: 07/10/00

Instrument ID: W BFB Injection Time: 0831

GC Column: DB-1 ID: 0.32 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	22.0
75	30.0 - 66.0% of mass 95	49.8
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.6
173	Less than 2.0% of mass 174	0.1 (0.2)1
174	50.0 - 120.0% of mass 95	69.8
175	4.0 - 9.0% of mass 174	4.9 (7.0)1
176	93.0 - 101.0% of mass 174	65.5 (93.8)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	ASTD005	ASTD005	CB005	07/10/00	1021
02	ASTD010	ASTD010	CB010	07/10/00	1055
03	ASTD020	ASTD020	CB020	07/10/00	1131
04	ASTD040	ASTD040	CB040	07/10/00	1208
05	ASTD0005	ASTD0005	CB0005I2	07/10/00	1337
06	ICV_LCS	ICV_LCS	CB010Q	07/10/00	1418
07					
08					
09					
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FORM 5
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 79113

Lab File ID: CB009P BFB Injection Date: 07/28/00

Instrument ID: W BFB Injection Time: 0626

GC Column: DB-1 ID: 0.32 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	22.5
75	30.0 - 66.0% of mass 95	48.9
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.5
173	Less than 2.0% of mass 174	0.5 (0.7)1
174	50.0 - 120.0% of mass 95	67.2
175	4.0 - 9.0% of mass 174	4.7 (7.1)1
176	93.0 - 101.0% of mass 174	63.2 (94.0)1
177	5.0 - 9.0% of mass 176	4.0 (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	ASTD010	ASTD010	CB010I	07/28/00	0648
02	R5_LCS	R5_LCS	CB010IQ	07/28/00	0724
03	ABLKR5	ABLKR5	CBB001I	07/28/00	0756
04	EA072400002	425407	425407	07/28/00	1125
05	I072400002	425405	425405D	07/28/00	1159
06	2IA07240002	425406	425406D	07/28/00	1234
07	I072400002DL	425405D1	425405D2	07/28/00	1321
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FORM 8
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 79113

Lab File ID (Standard): CB010I Date Analyzed: 07/28/00

Instrument ID: W Time Analyzed: 0648

GC Column: DB-1 ID: 0.35 (mm) Heated Purge: (Y/N) N

		IS1 (BCM) AREA #	RT #	IS2 (CBZ) AREA #	RT #	IS3 (DFB) AREA #	RT #
	12 HOUR STD	333811	7.64	1685747	11.84	1585181	8.97
	UPPER LIMIT	801146	7.97	4045793	12.17	3804434	9.30
	LOWER LIMIT	133524	7.31	674299	11.51	634072	8.64
	CLIENT SAMPLE NO.						
01	R5_LCS	329587	7.65	1607941	11.84	1591854	8.99
02	ABLKR5	378092	7.61	1764024	11.83	1814347	8.96
03	EA072400002	293352	7.59	1879970	11.87	1414979	8.97
04	I072400002	348786	7.64	1926014	11.84	1529762	8.97
05	2IA07240002	431651	7.62	2411386	11.82	2145048	8.96
06	I072400002DL	491414	7.62	2623499	11.84	2413496	8.96
07							
08							
09							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							

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

AREA UPPER LIMIT = +140% of internal standard area
AREA LOWER LIMIT = - 60% of internal standard area
RT UPPER LIMIT = + 0.33 minutes of internal standard RT
RT LOWER LIMIT = - 0.33 minutes of internal standard RT

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

METHOD TO-14A
VOLATILE ORGANIC ANALYSIS

SUPPORTIVE DOCUMENTATION

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

ACCANA SAMPLE NO.

2IA07240002

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 79113

Matrix: (soil/water) AIR Lab Sample ID: 425406

Sample wt/vol: 200 (g/mL) ML Lab File ID: 425406D

Level: (low/med) LOW Date Received: 07/24/00

% Moisture: not dec. _____ Date Analyzed: 07/28/00

GC Column: DB-1 ID: 0.35 (mm) Dilution Factor: 1.0

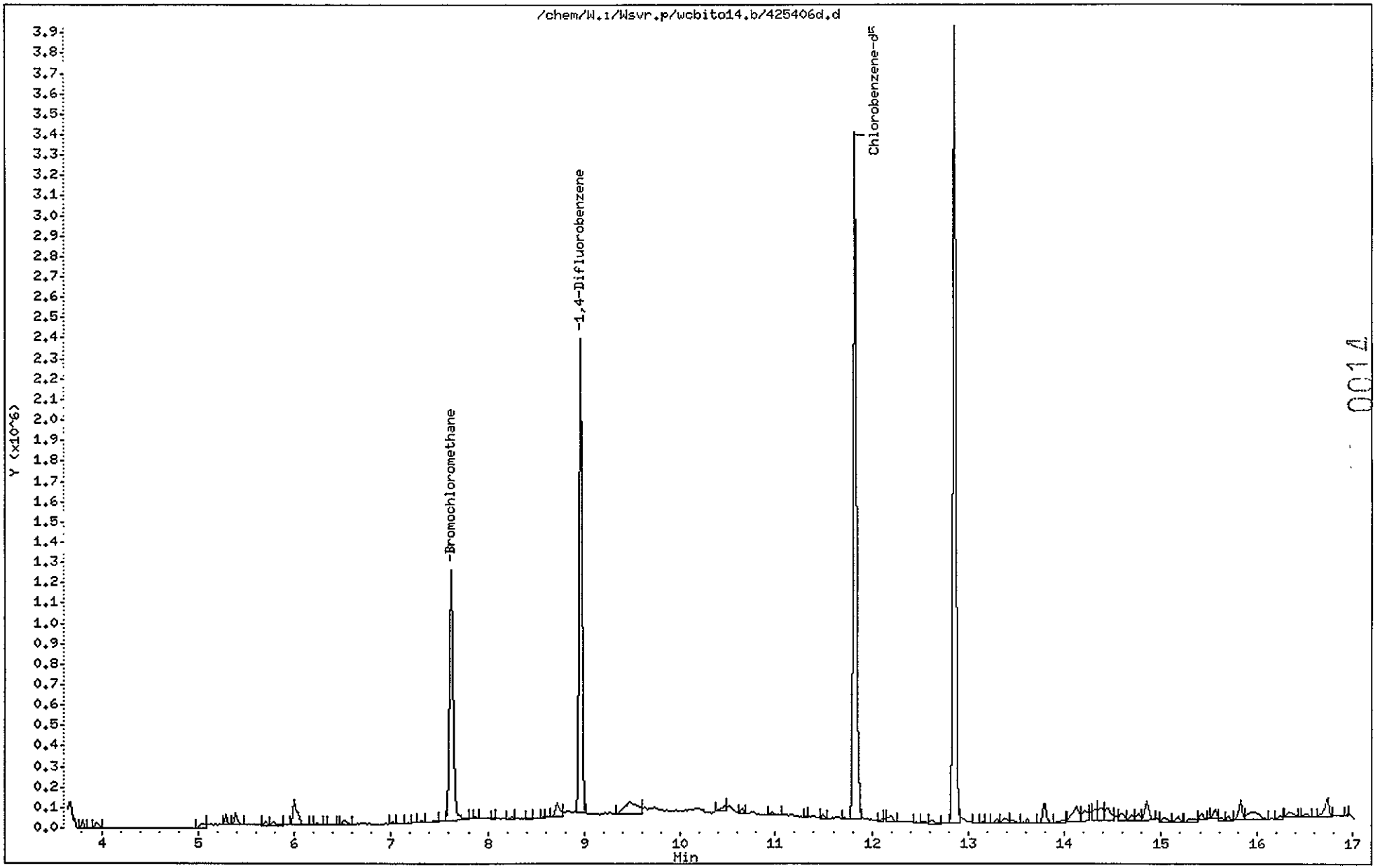
Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) PPBV	Q
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl Chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-09-2	Methylene Chloride	2.3	
75-34-3	1,1-Dichloroethane	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
56-23-5	Carbon Tetrachloride	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-88-3	Toluene	0.50	U
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
1330-20-7	Xylene (total)	0.50	U
100-42-5	Styrene	0.50	U
1330-20-7	Xylene (m,p)	0.50	U
95-47-6	Xylene (o)	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U

Data File: /chem/W.i/Wsvr.p/wcbito14.b/425406d.d
Date : 28-JUL-2000 12:34
Client ID: 2IA07240002
Sample Info: 425406;2IA07240002;79113;0728R5
Purge Volume: 200.0
Column phase: DB-1

Instrument: W.i

Operator: GMM
Column diameter: 0.35



STL Burlington

AIR TOXICS QUANTITATION REPORT

Data file : /chem/W.i/Wsvr.p/wcbito14.b/425406d.d
Lab Smp Id: 425406 Client Smp ID: 2IA07240002
Inj Date : 28-JUL-2000 12:34
Operator : GMM Inst ID: W.i
Smp Info : 425406;2IA07240002;79113;0728R5
Misc Info : 200mL
Comment :
Method : /chem/W.i/Wsvr.p/wcbito14.b/ato14.m
Meth Date : 31-Jul-2000 20:19 cpc Quant Type: ISTD
Cal Date : 10-JUL-2000 13:37 Cal File: cb0005i2.d
Als bottle: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ACCANA.sub
Target Version: 3.50
Processing Host: chemsvr4

Concentration Formula: Amt * DF * X* Uf/Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
X	200.00000	method volume factor
Uf	1.00000	ng unit correction factor
Vo	200.00000	Sample Volume purged (mL)

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	FINAL (ppbv)
	2 Chloromethane	50	Compound Not Detected.					
	4 Vinyl Chloride	62	Compound Not Detected.					
	5 Bromomethane	94	Compound Not Detected.					
	6 Chloroethane	64	Compound Not Detected.					
	7 Trichlorofluoromethane	101	Compound Not Detected.					
	9 Methylene Chloride	49	5.997	6.014	(0.787)	117529	2.33091	2.3
	11 1,1-Dichloroethane	63	Compound Not Detected.					
*	13 Bromochloromethane	128	7.621	7.638	(1.000)	431651	10.0000	
	14 Chloroform	83	Compound Not Detected.					
	15 1,2-Dichloroethane	62	Compound Not Detected.					
	16 1,1,1-Trichloroethane	97	Compound Not Detected.					
	17 Benzene	78	Compound Not Detected.					
	18 Carbon Tetrachloride	117	Compound Not Detected.					
*	19 1,4-Difluorobenzene	114	8.956	8.973	(1.000)	2145048	10.0000	
	20 1,2-Dichloropropane	63	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)
	21 Trichloroethene	95	Compound Not Detected.					
	22 cis-1,3-Dichloropropene	75	Compound Not Detected.					
	23 trans-1,3-Dichloropropene	75	Compound Not Detected.					
	24 1,1,2-Trichloroethane	83	Compound Not Detected.					
	25 Toluene	92	Compound Not Detected.					
	27 Tetrachloroethene	166	Compound Not Detected.					
*	28 Chlorobenzene-d5	117	11.825	11.841	(1.000)	2411386	10.0000	
	29 Chlorobenzene	112	Compound Not Detected.					
	30 Ethylbenzene	91	Compound Not Detected.					
	31 Xylene (m,p)	106	Compound Not Detected.					
	32 Styrene	104	Compound Not Detected.					
M	33 Xylene (total)	106	Compound Not Detected.					
	34 1,1,2,2-Tetrachloroethane	83	Compound Not Detected					
	35 Xylene (o)	106	Compound Not Detected.					
	38 1,3-Dichlorobenzene	146	Compound Not Detected.					
	39 1,4-Dichlorobenzene	146	Compound Not Detected.					
	40 1,2-Dichlorobenzene	146	Compound Not Detected.					

STL Burlington

AIR TOXICS QUANTITATION REPORT

Data file : /chem/W.i/Wsvr.p/wcbito14.b/425406d.d
Lab Smp Id: 425406 Client Smp ID: 2IA07240002
Inj Date : 28-JUL-2000 12:34
Operator : GMM Inst ID: W.i
Smp Info : 425406;2IA07240002;79113;0728R5
Misc Info : 200mL
Comment :
Method : /chem/W.i/Wsvr.p/wcbito14.b/ato14.m
Meth Date : 31-Jul-2000 20:19 cpc Quant Type: ISTD
Cal Date : 10-JUL-2000 13:37 Cal File: cb0005i2.d
Als bottle: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ACCANA.sub
Target Version: 3.50
Processing Host: chemsvr4

Concentration Formula: Amt * DF * X* Uf/Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
X	200.00000	method volume factor
Uf	1.00000	ng unit correction factor
Vo	200.00000	Sample Volume purged (mL)

Cpnd Variable Local Compound Variable

ISTD	RT	AREA	AMOUNT
* 19 1,4-Difluorobenzene	8.956	4835108	10.000

		CONCENTRATIONS			QUANT		
RT	AREA	ON-COL(ppbv)	FINAL(ppbv)	QUAL	LIBRARY	LIB ENTRY	CPND #
Unknown alkane				CAS #:			
9.472	546172	1.12959602	1.1	0		0	19

Data File: /chem/W.i/Wsvr.p/wcbito14.b/425406d.d

Date : 28-JUL-2000 12:34

Client ID: 2IA07240002

Instrument: W.i

Sample Info: 425406;2IA07240002;79113;0728R5

Purge Volume: 200.0

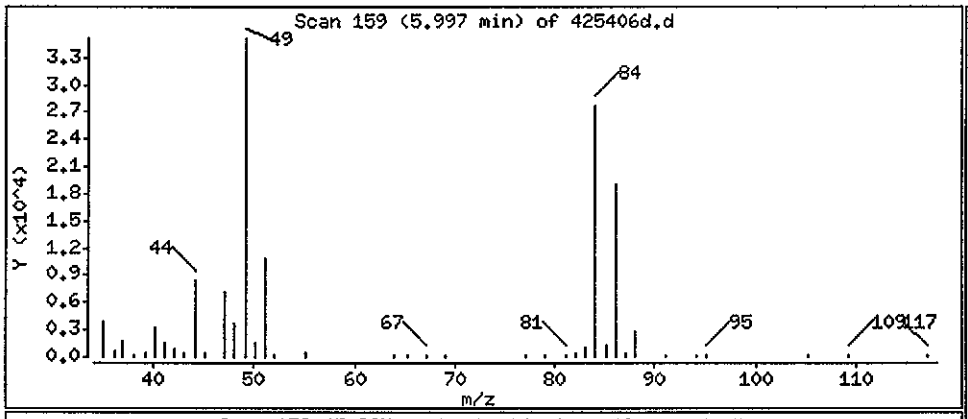
Operator: GMM

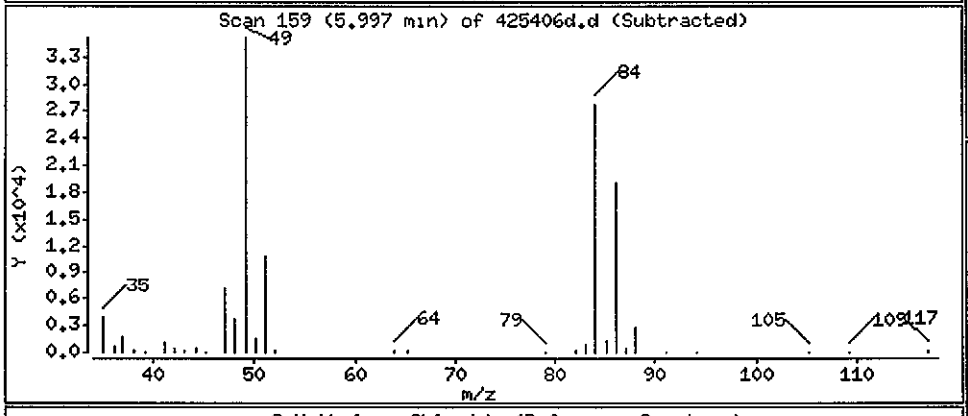
Column phase: DB-1

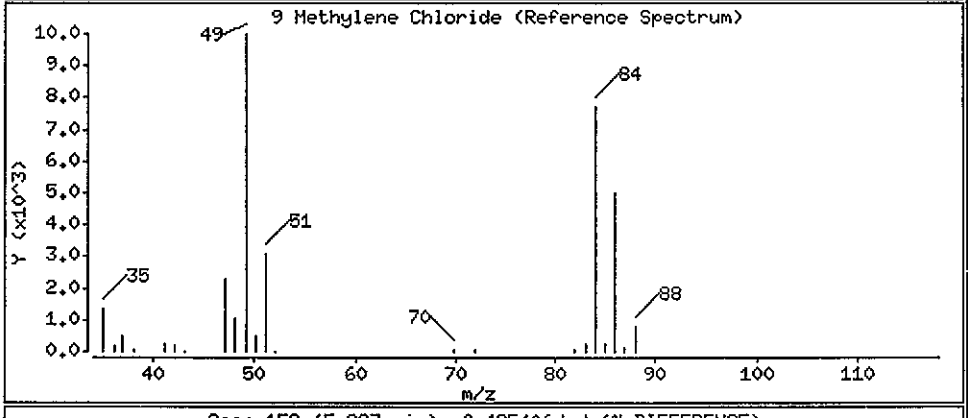
Column diameter: 0.35

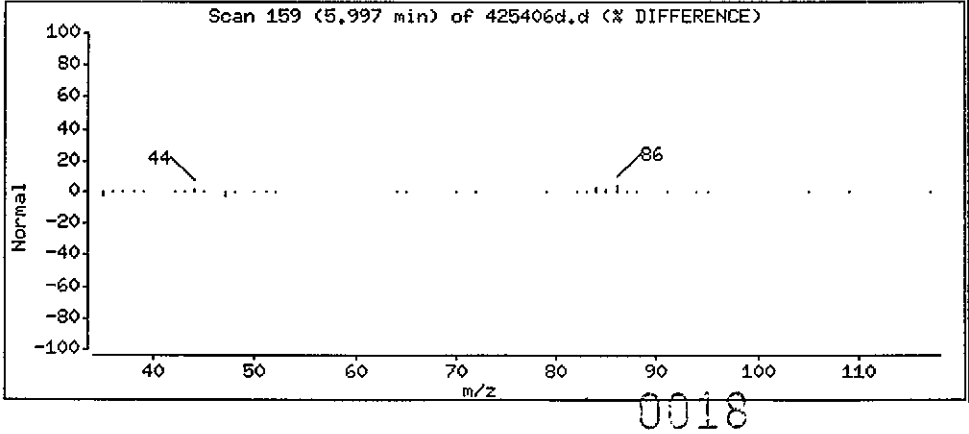
9 Methylene Chloride

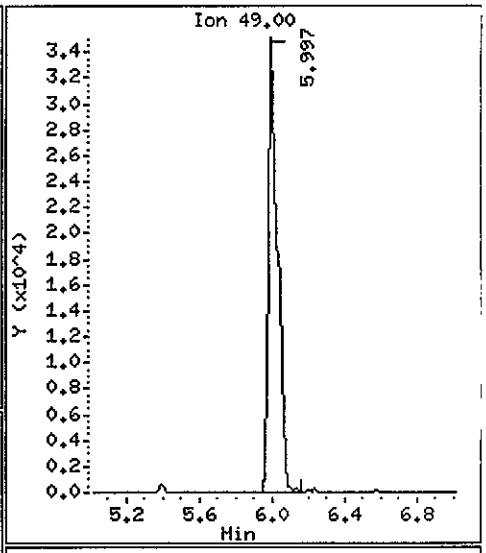
Concentration: 2.3 ppbv

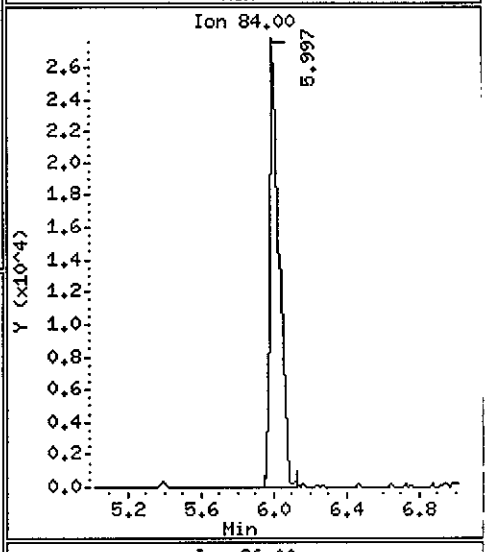


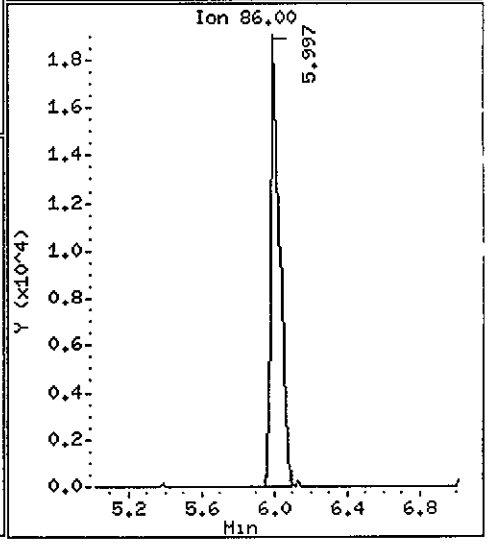












Data File: /chem/W.i/Wsvr.p/wcbito14.b/425406d.d

Date : 28-JUL-2000 12:34

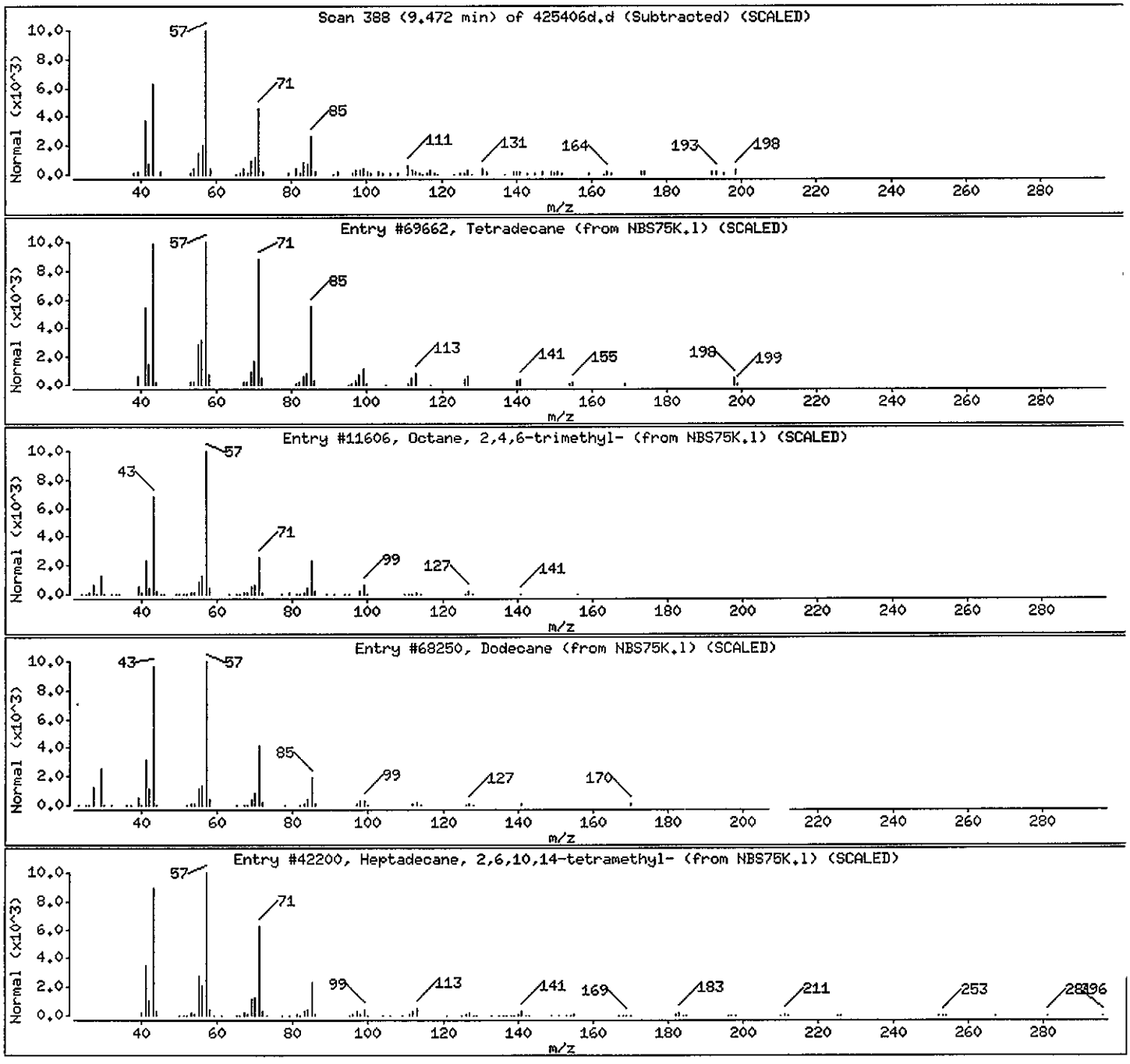
Client ID: 2IA07240002 Instrument: W.i

Sample Info: 425406;2IA07240002;79113;0728R5

Purge Volume: 200.0 Operator: GMM

Column phase: DB-1 Column diameter: 0.35

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown alkane						
Tetradecane	629-59-4	NBS75K.l	69662	68	C14H30	198
Octane, 2,4,6-trimethyl-	62016-37-9	NBS75K.l	11606	64	C11H24	156
Dodecane	112-40-3	NBS75K.l	68250	59	C12H26	170
Heptadecane, 2,6,10,14-tetramethyl-	18344-37-1	NBS75K.l	42200	59	C21H44	296



FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

ACCANA SAMPLE NO.

EA072400002

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 79113

Matrix: (soil/water) AIR Lab Sample ID: 425407

Sample wt/vol: 200 (g/mL) ML Lab File ID: 425407

Level: (low/med) LOW Date Received: 07/27/00

% Moisture: not dec. _____ Date Analyzed: 07/28/00

GC Column: DB-1 ID: 0.35 (mm) Dilution Factor: 1.0

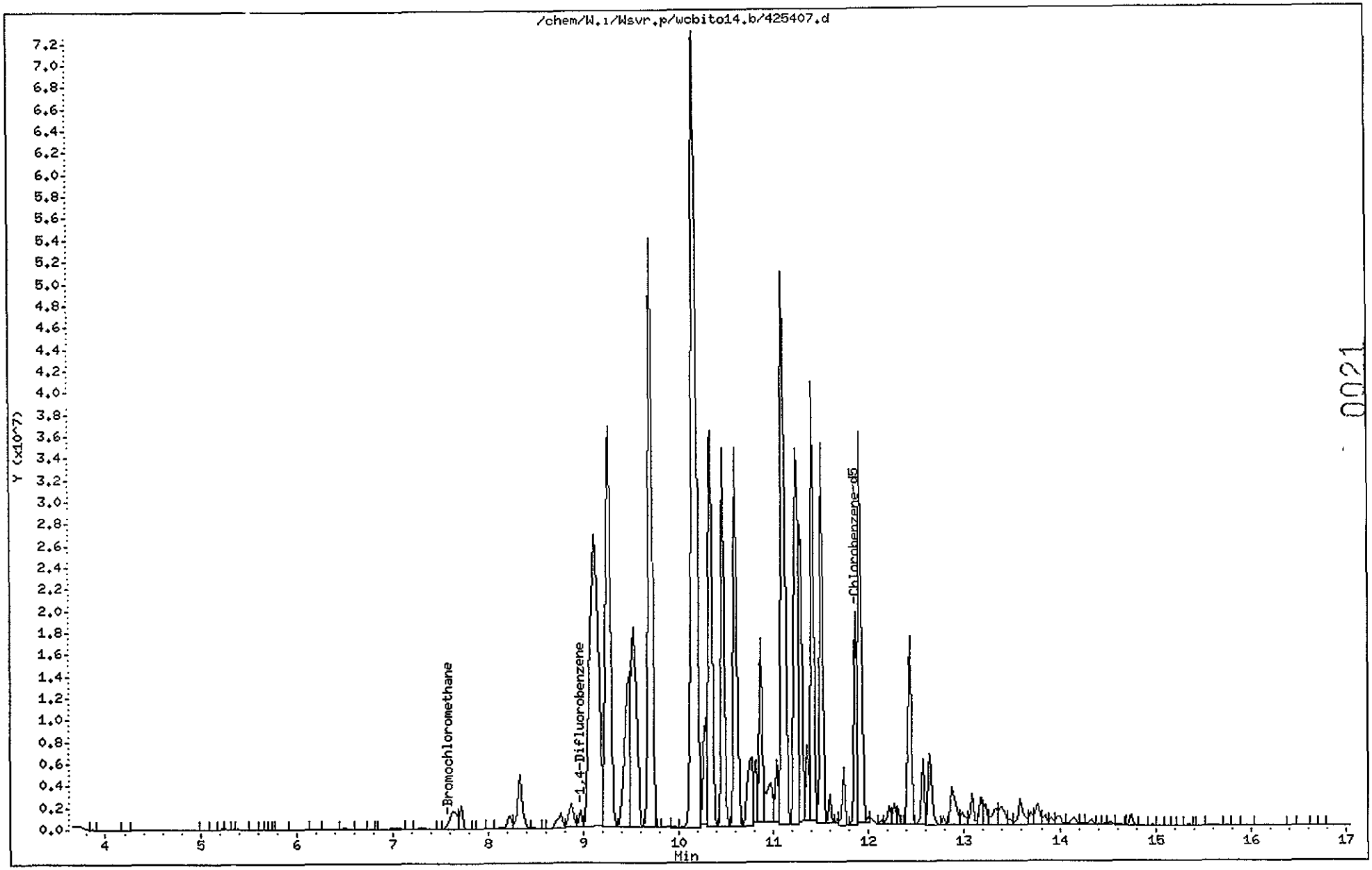
Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) PPBV	Q
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl Chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-09-2	Methylene Chloride	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
56-23-5	Carbon Tetrachloride	0.50	U
71-43-2	Benzene	24	
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-88-3	Toluene	0.50	U
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.51	
1330-20-7	Xylene (total)	6.0	
100-42-5	Styrene	0.50	U
1330-20-7	Xylene (m,p)	3.7	
95-47-6	Xylene (o)	2.3	
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U

Data File: /chem/W.i/Wsvr.p/wcbito14.b/425407.d
Date : 28-JUL-2000 11:25
Client ID: EA072400002
Sample Info: 425407;EA072400002;79113;0728R5
Purge Volume: 200.0
Column phase: DB-1

Instrument: W.i

Operator: GHM
Column diameter: 0.35



STL Burlington

AIR TOXICS QUANTITATION REPORT

Data file : /chem/W.i/Wsvr.p/wcbito14.b/425407.d
Lab Smp Id: 425407 Client Smp ID: EA072400002
Inj Date : 28-JUL-2000 11:25
Operator : GMM Inst ID: W.i
Smp Info : 425407;EA072400002;79113;0728R5
Misc Info :
Comment :
Method : /chem/W.i/Wsvr.p/wcbito14.b/ato14.m
Meth Date : 31-Jul-2000 20:19 cpc Quant Type: ISTD
Cal Date : 10-JUL-2000 13:37 Cal File: cb0005i2.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ACCANA.sub
Target Version: 3.50
Processing Host: chemsvr4

Concentration Formula: Amt * DF * X* Uf/Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
X	200.00000	method volume factor
Uf	1.00000	ng unit correction factor
Vo	200.00000	Sample Volume purged (mL)

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON COLUMN (ppbv)	FINAL (ppbv)	
2	Chloromethane	50	Compound Not Detected.						
4	Vinyl Chloride	62	Compound Not Detected.						
5	Bromomethane	94	Compound Not Detected.						
6	Chloroethane	64	Compound Not Detected						
7	Trichlorofluoromethane	101	Compound Not Detected.						
9	Methylene Chloride	49	Compound Not Detected.						
11	1,1-Dichloroethane	63	Compound Not Detected.						
* 13	Bromochloromethane	128	7.590	7.638	(1.000)	293352	10.0000		(M)
14	Chloroform	83	Compound Not Detected						
15	1,2-Dichloroethane	62	Compound Not Detected						
16	1,1,1-Trichloroethane	97	Compound Not Detected.						
17	Benzene	78	8.759	8.761	(0.976)	2316168	23.9123	24	
18	Carbon Tetrachloride	117	Compound Not Detected.						
* 19	1,4-Difluorobenzene	114	8.971	8.973	(1.000)	1414979	10.0000		
20	1,2-Dichloropropane	63	Compound Not Detected.						

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	FINAL (ppbv)
	21 Trichloroethene	95	Compound Not Detected.					
	22 cis-1,3-Dichloropropene	75	Compound Not Detected.					
	23 trans-1,3-Dichloropropene	75	Compound Not Detected.					
	24 1,1,2-Trichloroethane	83	Compound Not Detected.					
	25 Toluene	92	Compound Not Detected.					
	27 Tetrachloroethene	166	Compound Not Detected.					
*	28 Chlorobenzene-d5	117	11.870	11.841	(1.000)	1879970	10.0000	
	29 Chlorobenzene	112	Compound Not Detected.					
	30 Ethylbenzene	91	12.128	12.099	(1.022)	108295	0.51441	0.51
	31 Xylene (m,p)	106	12.234	12.221	(1.031)	283803	3.68061	3.7
	32 Styrene	104	Compound Not Detected.					
M	33 Xylene (total)	106				455118	5.95491	6.0
	34 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					
	35 Xylene (o)	106	12.568	12.539	(1.059)	171315	2.27430	2.3
	38 1,3-Dichlorobenzene	146	Compound Not Detected.					
	39 1,4-Dichlorobenzene	146	Compound Not Detected.					
	40 1,2-Dichlorobenzene	146	Compound Not Detected.					

QC Flag Legend

M - Compound response manually integrated.

CR 7/31/00

STL Burlington

AIR TOXICS QUANTITATION REPORT

Data file : /chem/W.i/Wsvr.p/wcbito14.b/425407.d
Lab Smp Id: 425407 Client Smp ID: EA072400002
Inj Date : 28-JUL-2000 11:25
Operator : GMM Inst ID: W.i
Smp Info : 425407;EA072400002;79113;0728R5
Misc Info :
Comment :
Method : /chem/W.i/Wsvr.p/wcbito14.b/ato14.m
Meth Date : 31-Jul-2000 20:19 cpc Quant Type: ISTD
Cal Date : 10-JUL-2000 13:37 Cal File: cb0005i2.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ACCANA.sub
Target Version: 3.50
Processing Host: chemsvr4

Concentration Formula: Amt * DF * X* Uf/Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
X	200.00000	method volume factor
Uf	1.00000	ng unit correction factor
Vo	200.00000	Sample Volume purged (mL)

Cpnd Variable Local Compound Variable

ISTD	RT	AREA	AMOUNT
* 19 1,4-Difluorobenzene	8.971	3495213	10.000
* 28 Chlorobenzene-d5	11.870	44823373	10.000

	CONCENTRATIONS				QUANT		
RT	AREA	ON-COL(ppbv)	FINAL(ppbv)	QUAL	LIBRARY	LIB ENTRY	CPND #
Unknown alkane				CAS #:			
9.108	1.641e+08	469.361744	470	0	0		19
Unknown alkane				CAS #:			
9.472	58617647	167.708361	170	0	0		19

		CONCENTRATIONS			QUANT		
RT	AREA	ON-COL(ppbv)	FINAL(ppbv)	QUAL	LIBRARY	LIB ENTRY	CPND #
====	====	==========	==========	====	=======	=========	======
Unknown				CAS #:			
9.533	80504319	230.327353	230	0		0	19
Unknown alkane				CAS #:			
9.715	1.683e+08	481.572872	480	0		0	19
Unknown				CAS #:			
10.277	23672074	67.7271245	68	0		0	19
Unknown				CAS #:			
10.337	1.166e+08	333.719933	330	0		0	19
Unknown				CAS #:			
10.595	88970895	19.8492190	20	0		0	28
Unknown alkylcyclohexane				CAS #:			
11.096	1.648e+08	36.7775714	37	0		0	28
Unknown				CAS #:			
11.233	99505554	22.1994792	22	0		0	28
Unknown alkylcyclohexane				CAS #:			
11.415	89913600	20.0595345	20	0		0	28

Data File: /chem/W.i/Wsvr.p/wcbito14.b/425407.d

Date : 28-JUL-2000 11:25

Client ID: EA072400002

Instrument: W.i

Sample Info: 425407;EA072400002;79113;0728R5

Purge Volume: 200.0

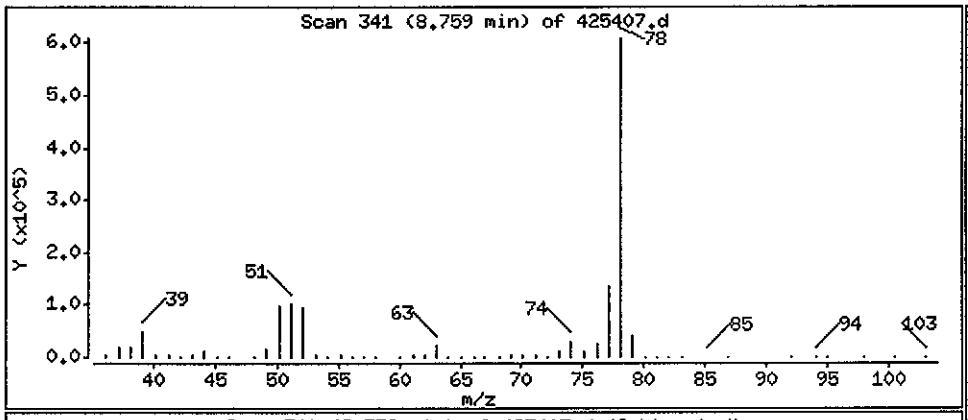
Operator: GMM

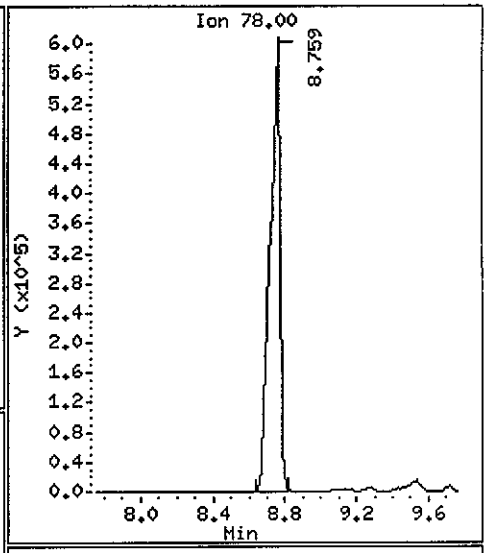
Column phase: DB-1

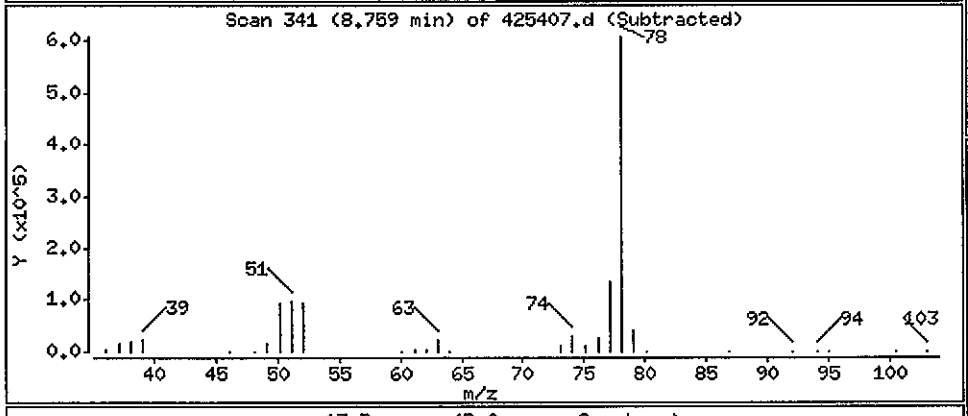
Column diameter: 0.35

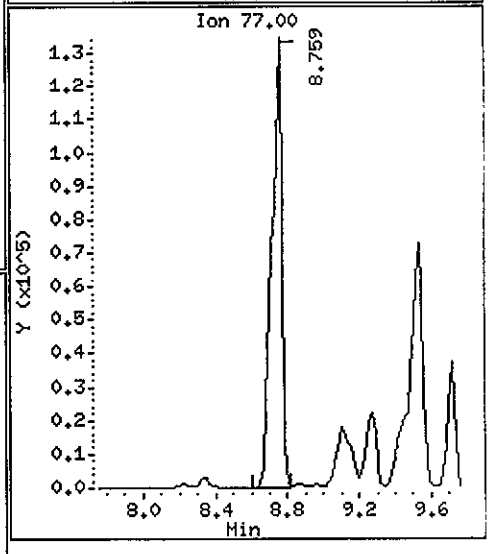
17 Benzene

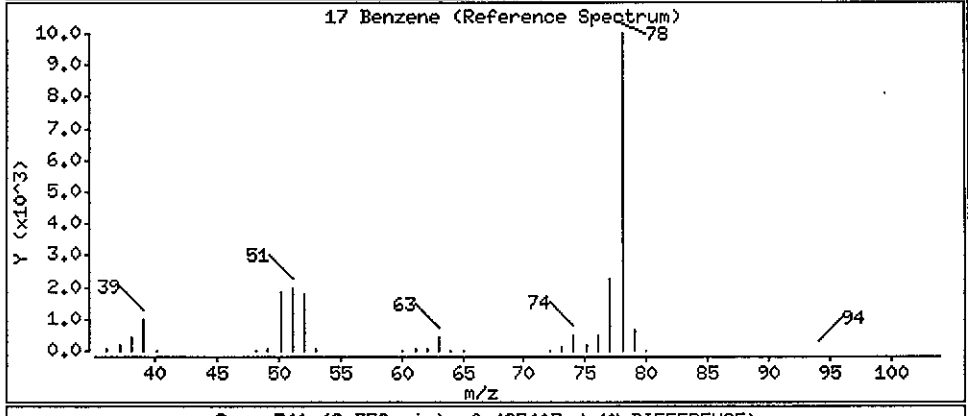
Concentration: 24 ppbv

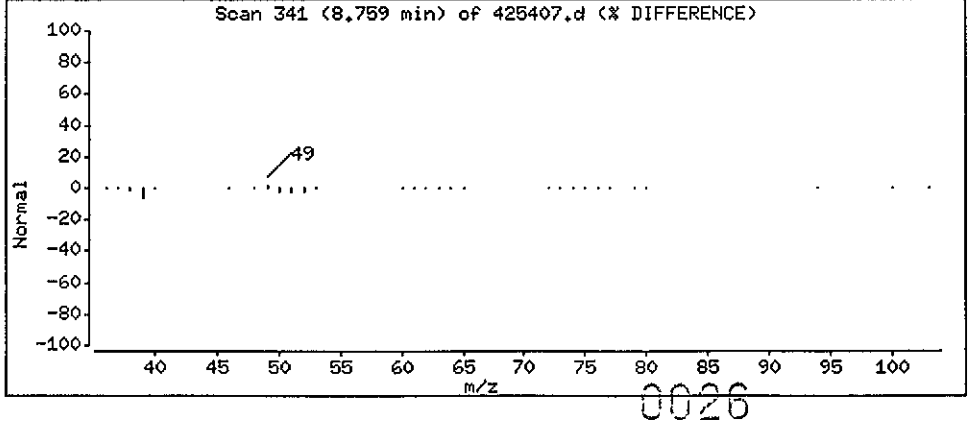












Data File: /chem/W.i/Wsvr.p/wcbito14.b/425407.d

Date : 28-JUL-2000 11:25

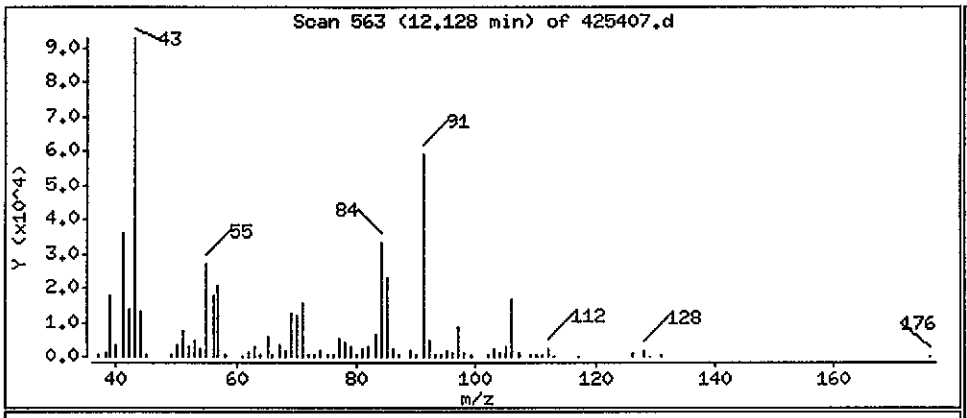
Client ID: EA072400002 Instrument: W.i

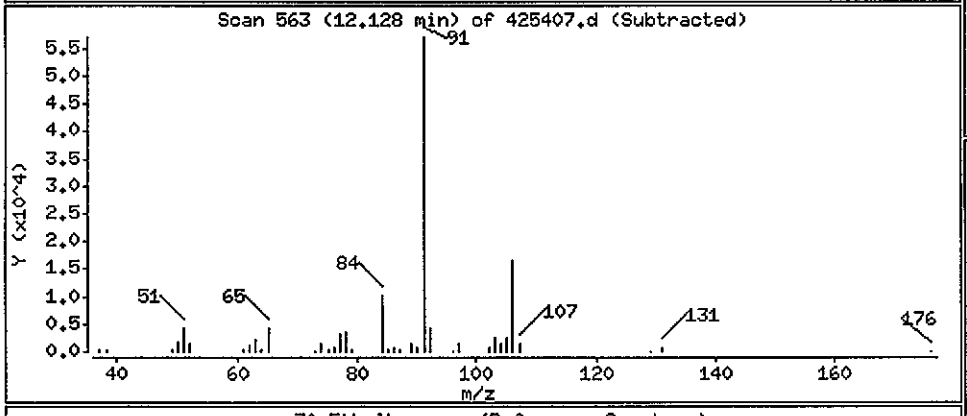
Sample Info: 425407;EA072400002;79113;0728R5

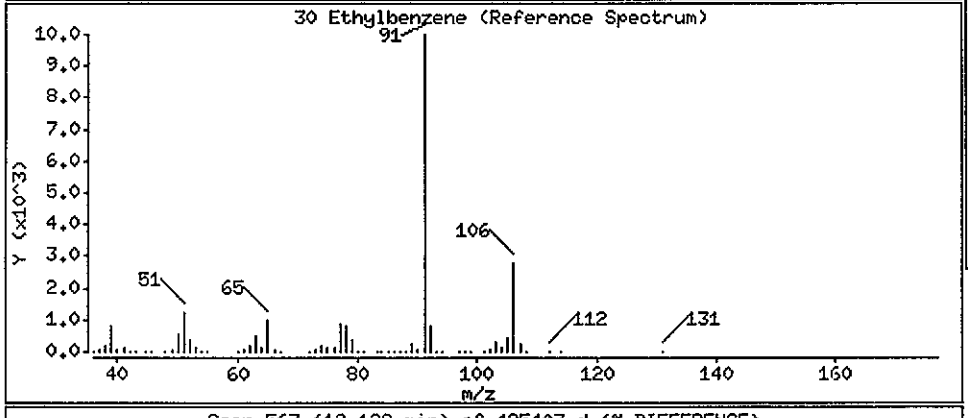
Purge Volume: 200.0 Operator: GHM

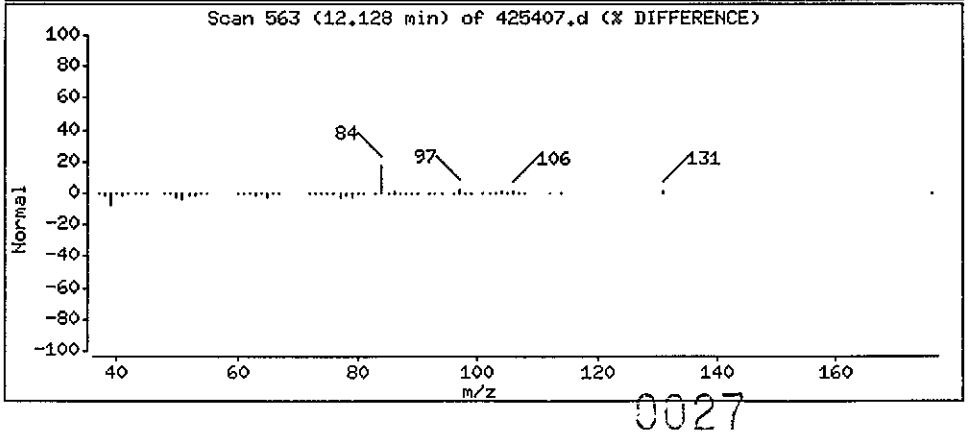
Column phase: DB-1 Column diameter: 0.35

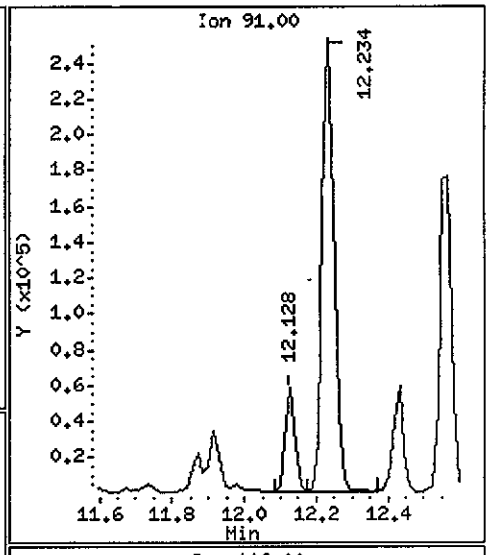
30 Ethylbenzene Concentration: 0.51 ppbv

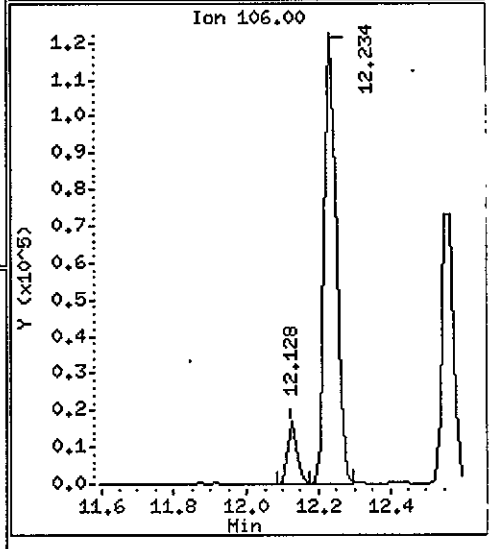












Data File: /chem/W.i/Wsvr.p/wcbito14.b/425407.d

Date : 28-JUL-2000 11:25

Client ID: EA072400002

Instrument: W.i

Sample Info: 425407;EA072400002;79113;0728R5

Purge Volume: 200.0

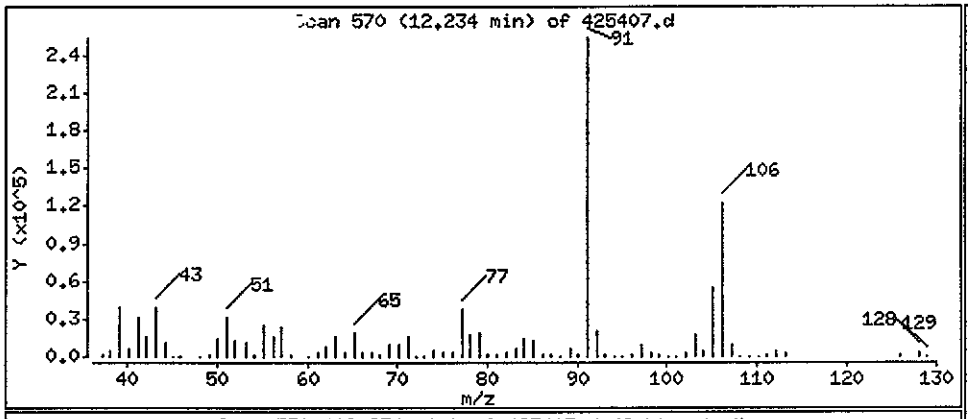
Operator: GHH

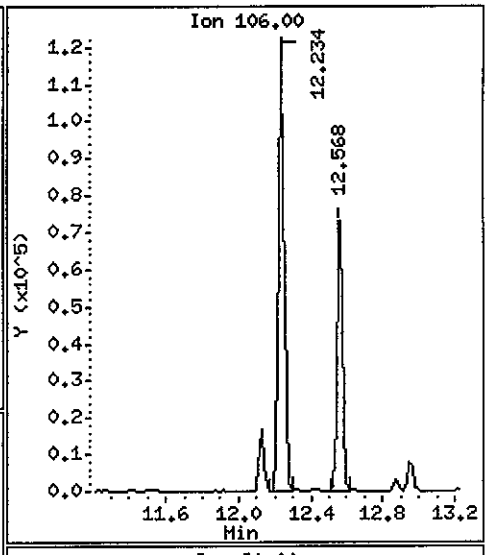
Column phase: DB-1

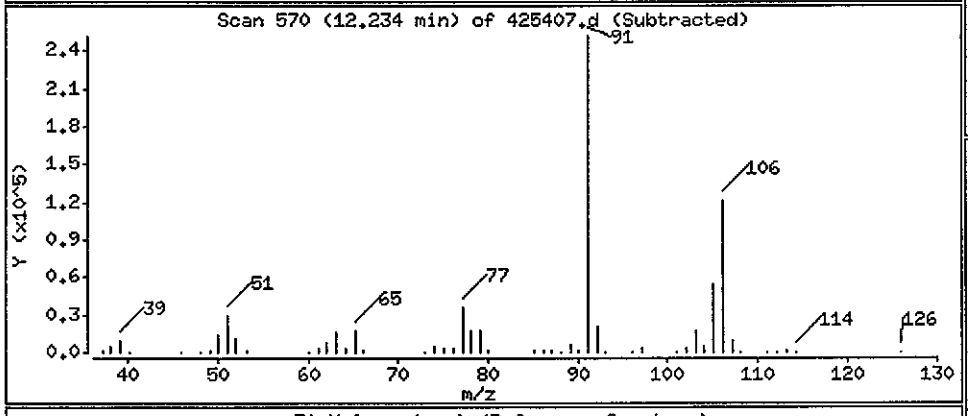
Column diameter: 0.35

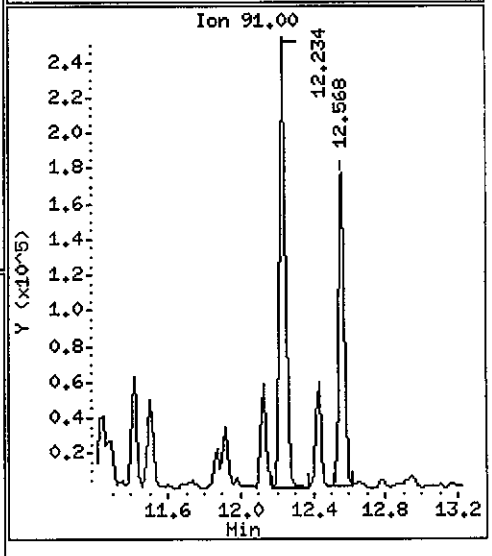
31 Xylene (m,p)

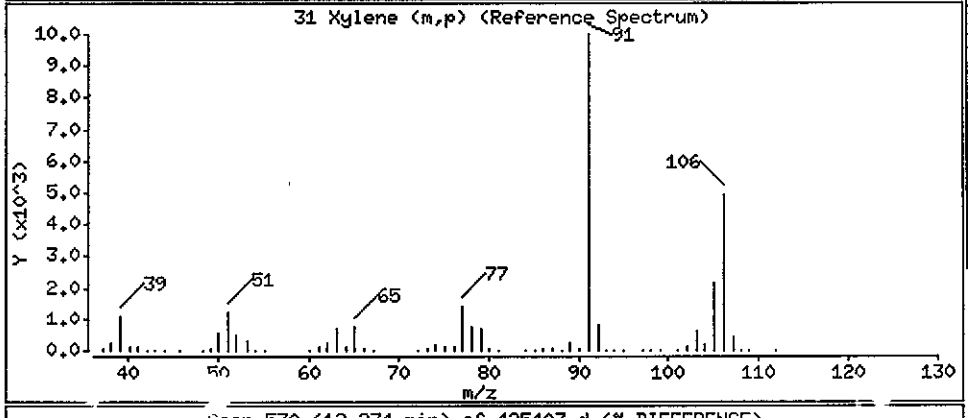
Concentration: 3.7 ppbv

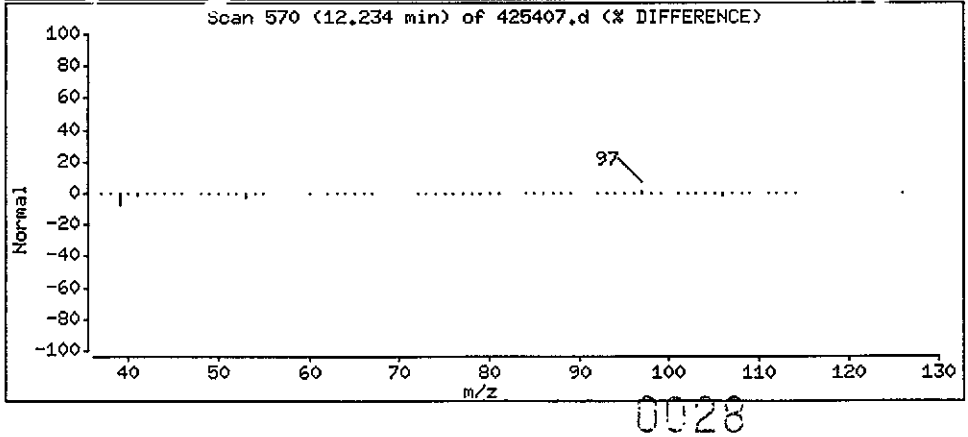












Data File: /chem/W.i/Wsvr.p/wcbito14.b/425407.d

Date : 28-JUL-2000 11:25

Client ID: EA072400002

Instrument: W.i

Sample Info: 425407;EA072400002;79113;0728R5

Purge Volume: 200.0

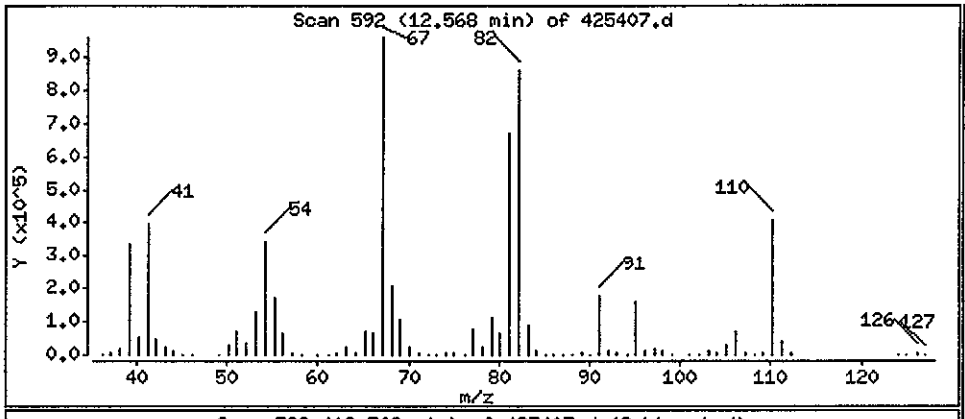
Operator: GHM

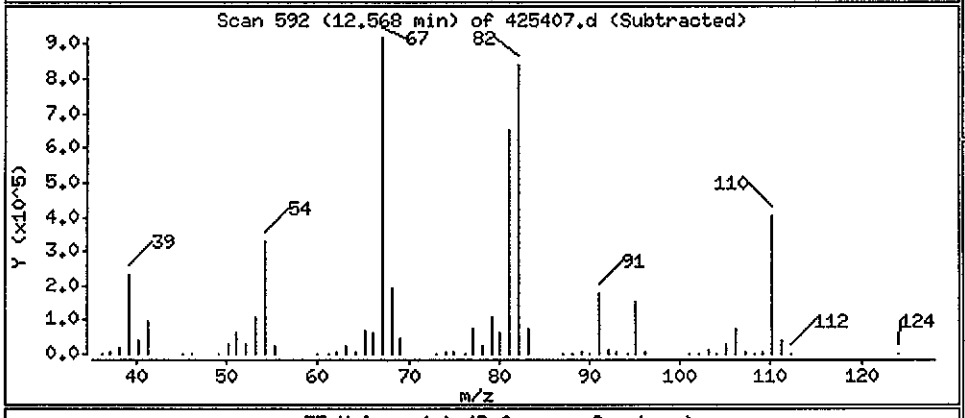
Column phase: DB-1

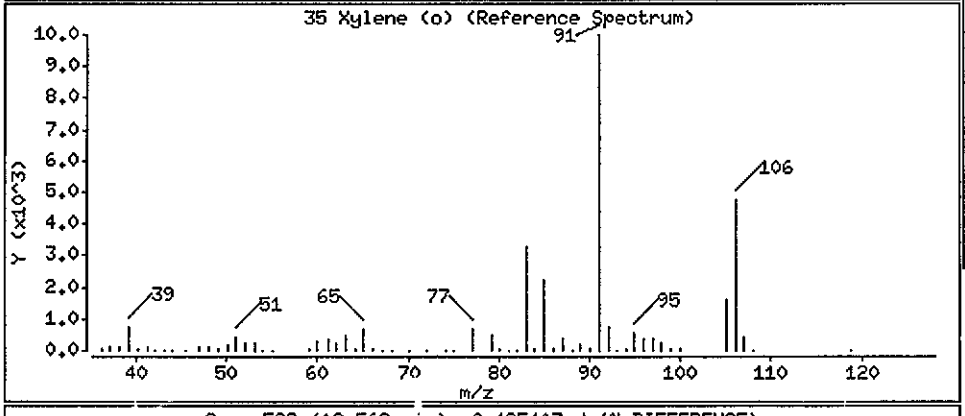
Column diameter: 0.35

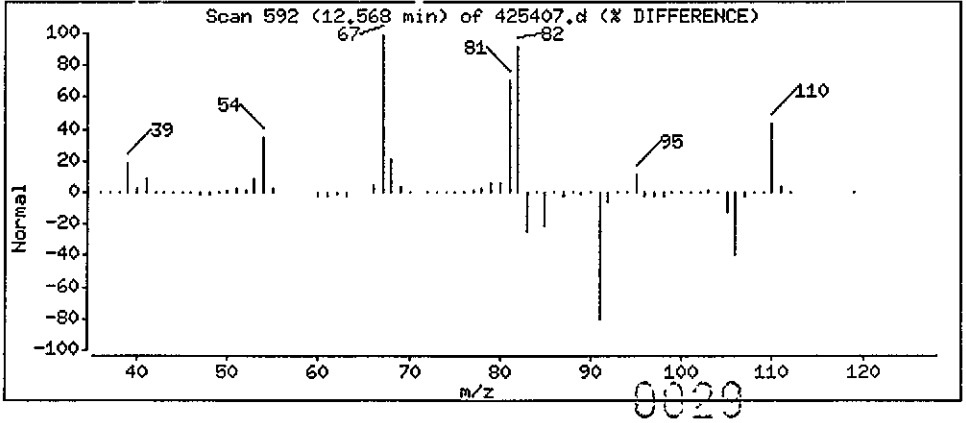
35 Xylene (o)

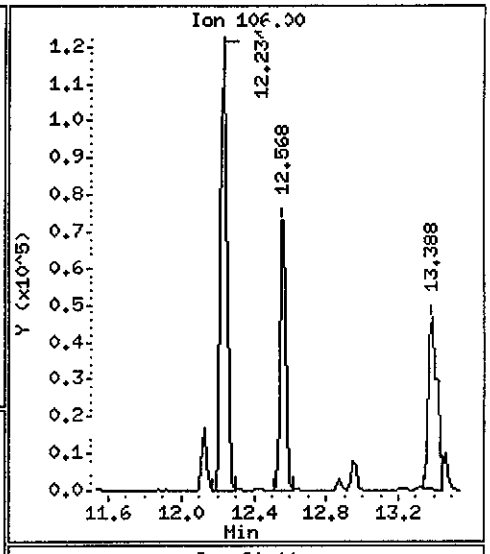
Concentration: 2.3 ppbv

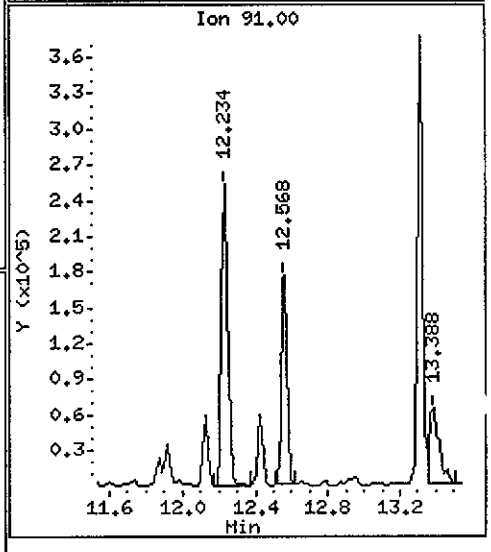












Data File: /chem/W.i/Wsvr.p/wcbito14.b/425407.d

Date : 28-JUL-2000 11:25

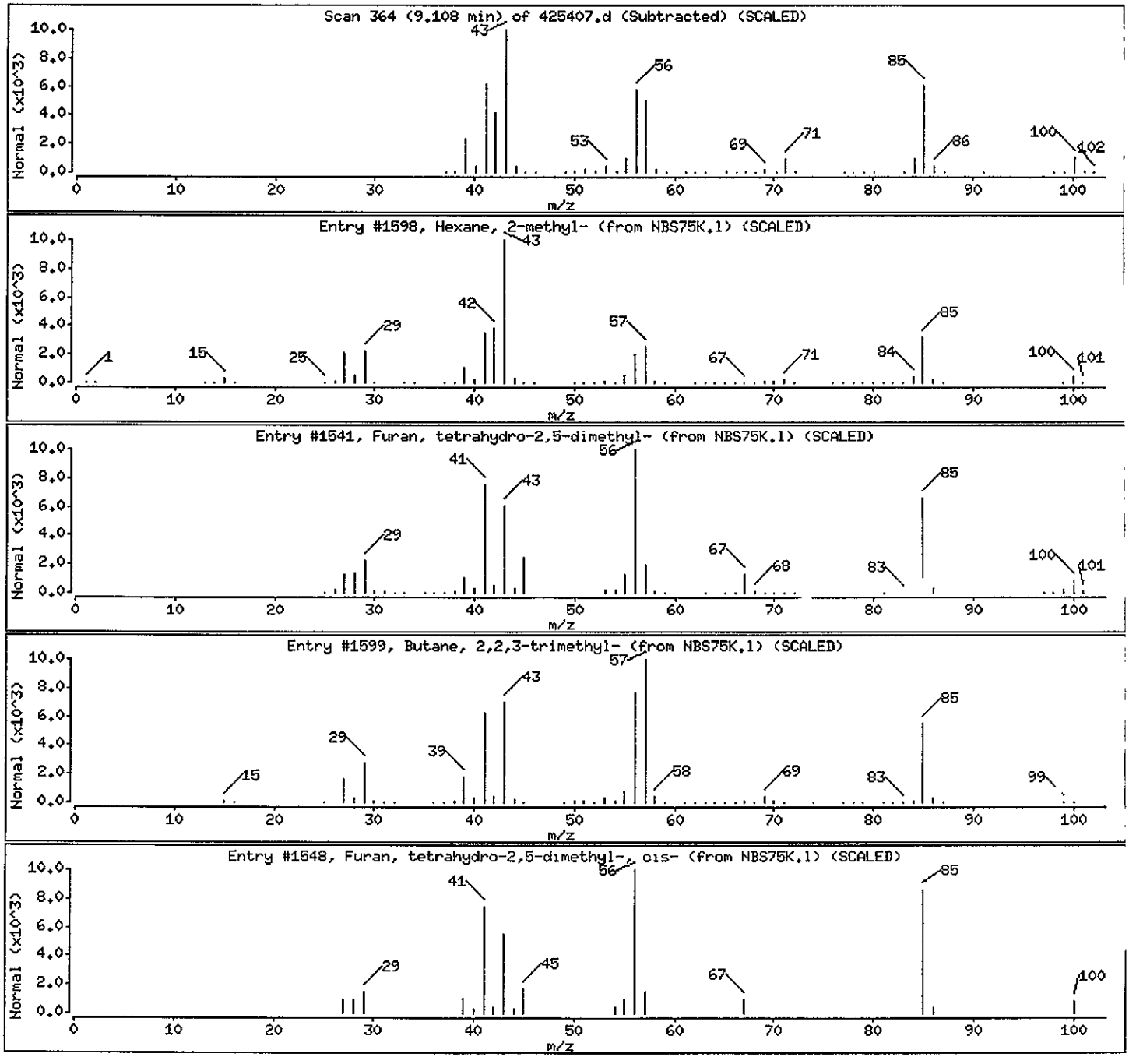
Client ID: EA072400002 Instrument: W.i

Sample Info: 425407;EA072400002;79113;0728R5

Purge Volume: 200.0 Operator: GHH

Column phase: DB-1 Column diameter: 0.35

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown alkane						
Hexane, 2-methyl-	591-76-4	NBS75K.l	1598	80	C7H16	100
Furan, tetrahydro-2,5-dimethyl-	1003-38-9	NBS75K.l	1541	47	C6H12O	100
Butane, 2,2,3-trimethyl-	464-06-2	NBS75K.l	1599	47	C7H16	100
Furan, tetrahydro-2,5-dimethyl-, cis-	2144-41-4	NBS75K.l	1548	46	C6H12O	100



Data File: /chem/W.i/Wsvr.p/wcbito14.b/425407.d

Date : 28-JUL-2000 11:25

Client ID: EA072400002

Instrument: W.i

Sample Info: 425407;EA072400002;79113;0728R5

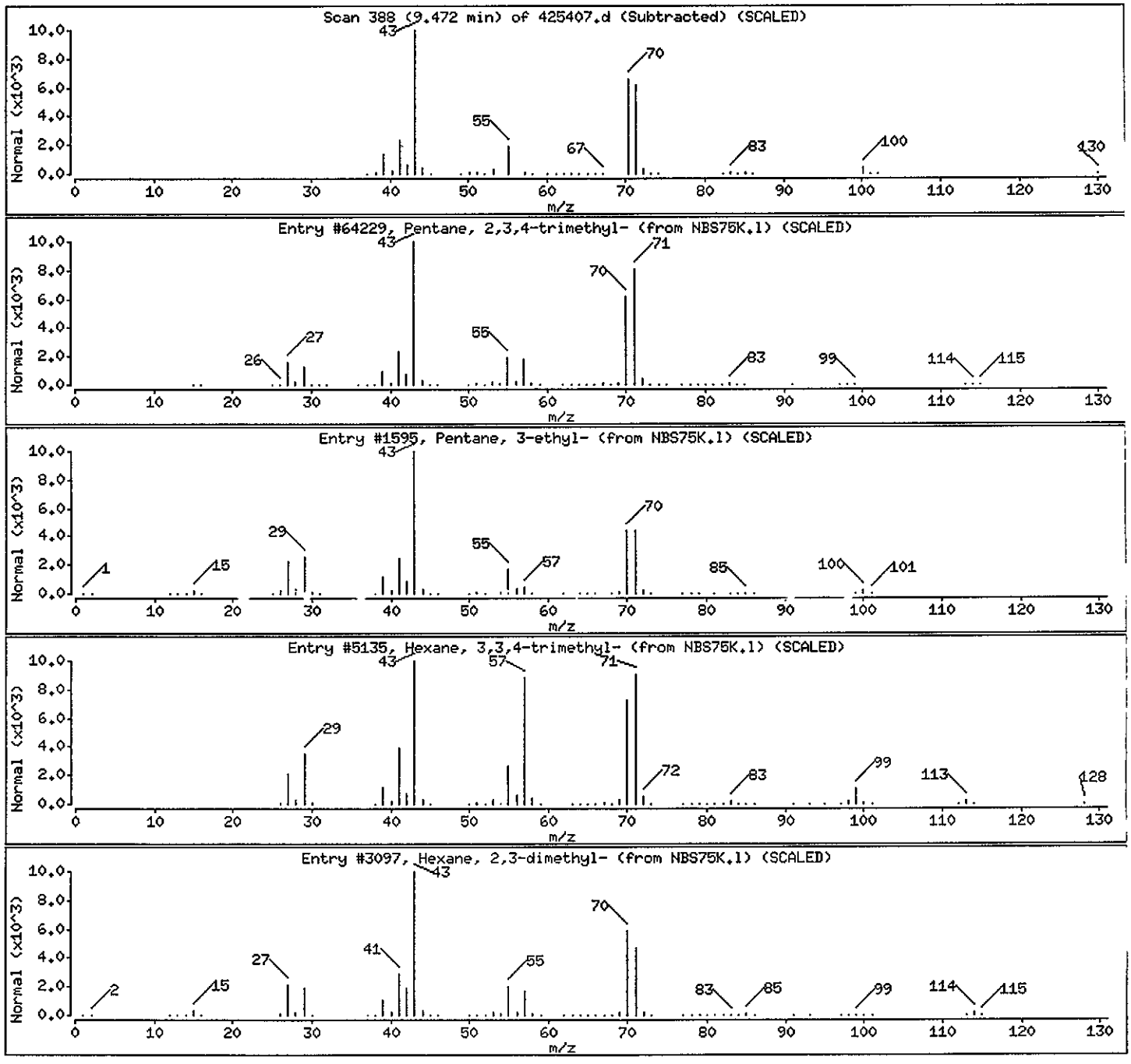
Purge Volume: 200.0

Operator: GMM

Column phase: DB-1

Column diameter: 0.35

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown alkane						
Pentane, 2,3,4-trimethyl-	565-75-3	NBS75K.l	64229	78	C8H18	114
Pentane, 3-ethyl-	617-78-7	NBS75K.l	1595	78	C7H16	100
Hexane, 3,3,4-trimethyl-	16747-31-2	NBS75K.l	5135	72	C9H20	128
Hexane, 2,3-dimethyl-	584-94-1	NBS75K.l	3097	56	C8H18	114



Data File: /chem/W.i/Wsvr.p/wcbito14.b/425407.d

Date : 28-JUL-2000 . .25

Client ID: EA072400002

Instrument: W.i

Sample Info: 425407;EA072400002;79113;0728R5

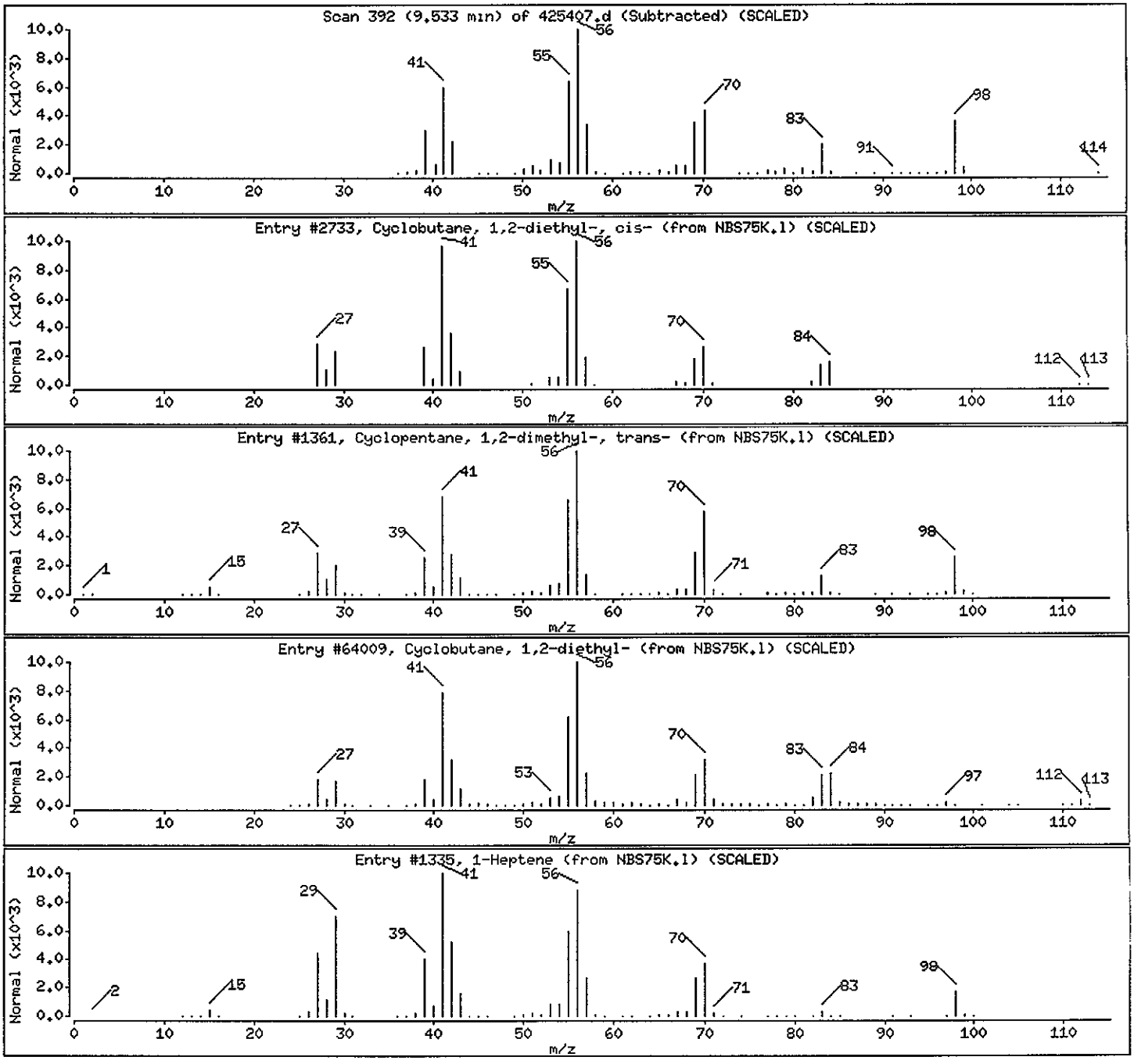
Purge Volume: 200.0

Operator: GHM

Column phase: DB-1

Column diameter: 0.35

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Cyclobutane, 1,2-diethyl-, cis-	61141-50-2	NBS75K.l	2733	72	C8H16	112
Cyclopentane, 1,2-dimethyl-, trans-	822-50-4	NBS75K.l	1361	68	C7H14	98
Cyclobutane, 1,2-diethyl-	61141-83-1	NBS75K.l	64009	64	C8H16	112
1-Heptene	592-76-7	NBS75K.l	1335	59	C7H14	98



Data File: /chem/W.i/Wsvr.p/wcbito14.b/425407.d

Date : 28-JUL-2000 11:25

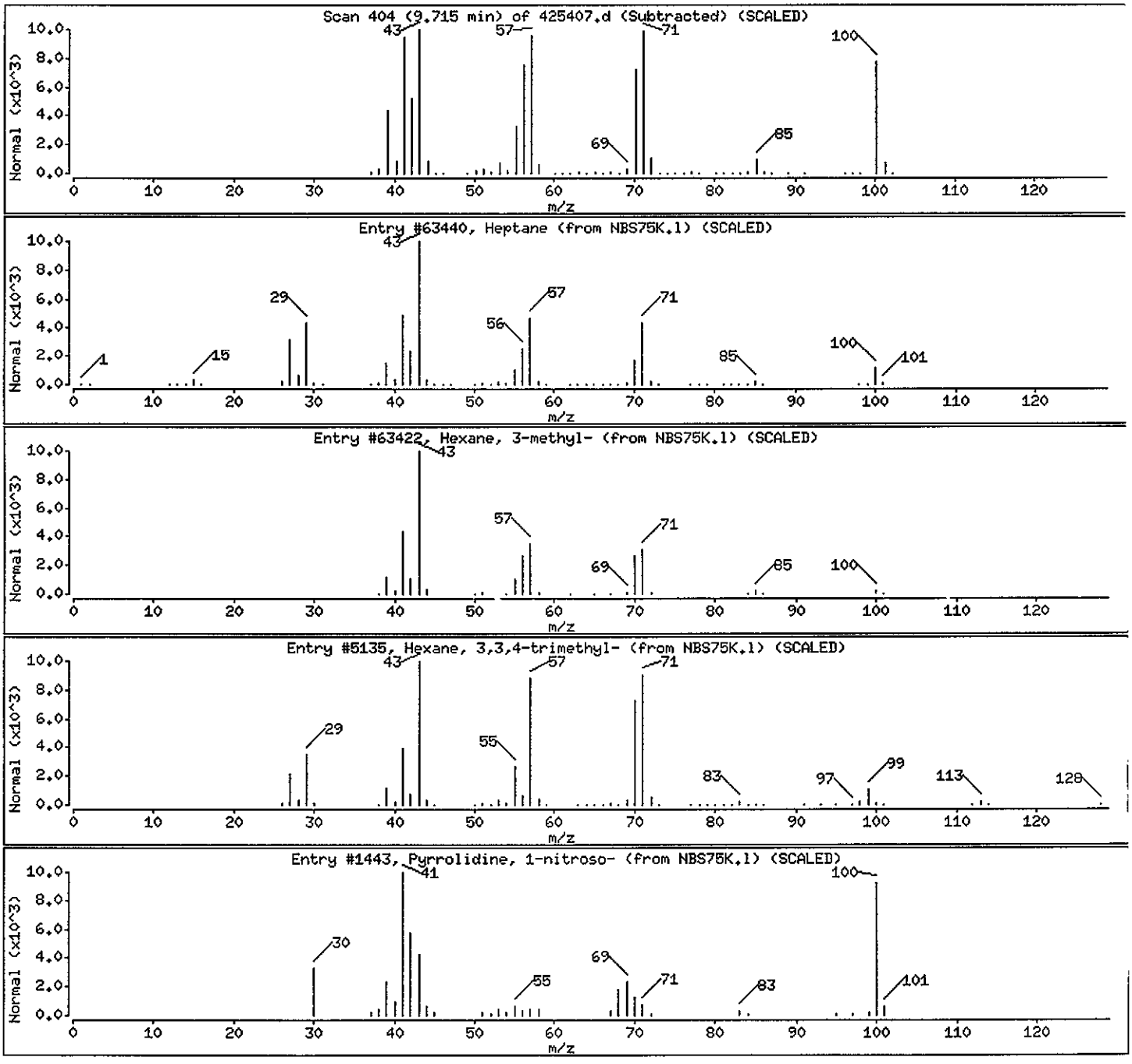
Client ID: EA072400002 Instrument: W.i

Sample Info: 425407;EA072400002;79113;0728R5

Purge Volume: 200.0 Operator: GMM

Column phase: DB-1 Column diameter: 0.35

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown alkane						
Heptane	142-82-5	NBS75K.l	63440	50	C7H16	100
Hexane, 3-methyl-	589-34-4	NBS75K.l	63422	47	C7H16	100
Hexane, 3,3,4-trimethyl-	16747-31-2	NBS75K.l	5135	22	C9H20	128
Pyrrolidine, 1-nitroso-	930-55-2	NBS75K.l	1443	22	C4H8N2O	100



Data File: /chem/W.i/Wsvr.p/wcbito14.b/425407.d

Date : 28-JUL-2000 11:25

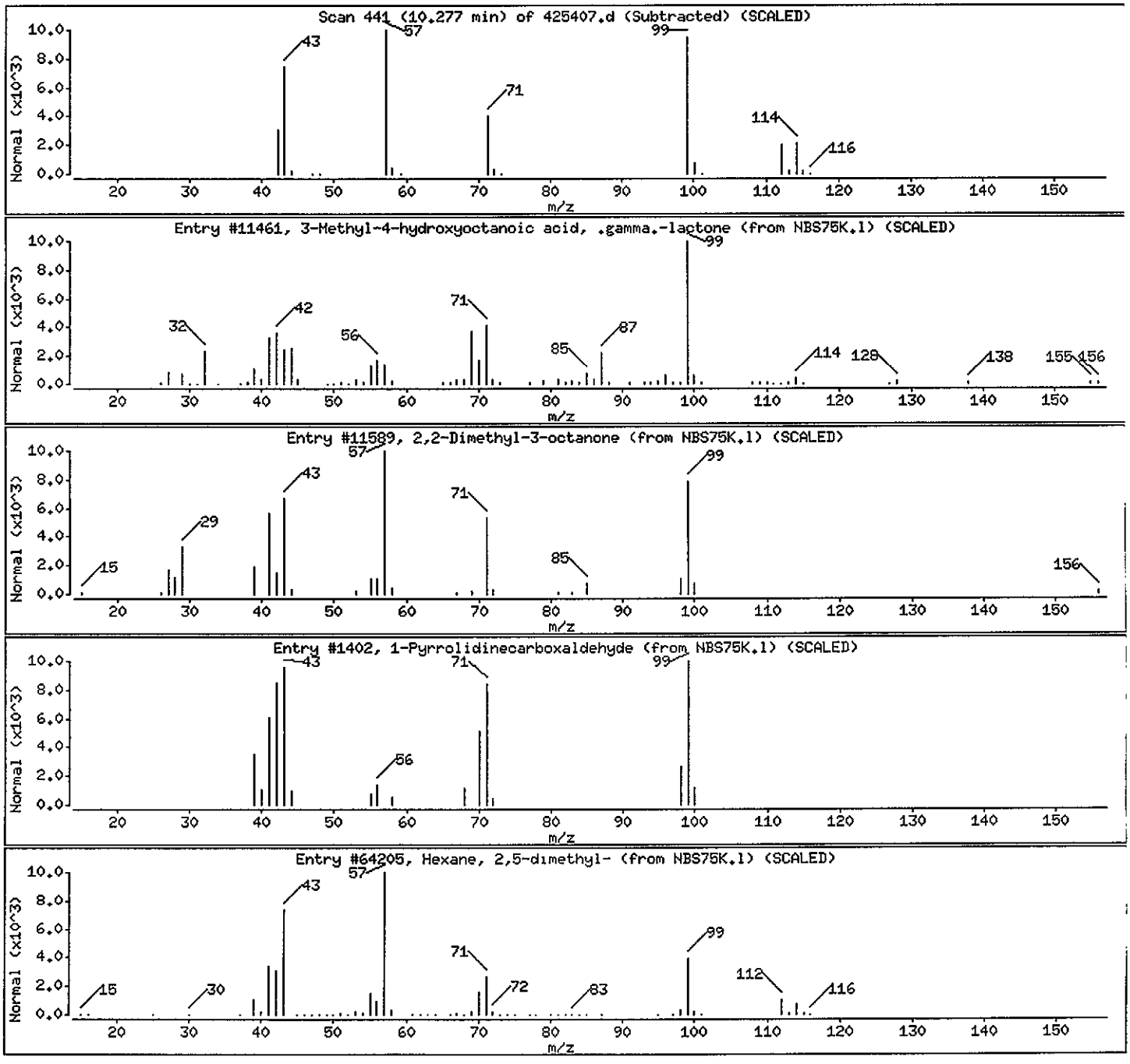
Client ID: EA072400002 Instrument: W.i

Sample Info: 425407;EA072400002;79113;0728R5

Purge Volume: 200.0 Operator: GMM

Column phase: DB-1 Column diameter: 0.35

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
3-Methyl-4-hydroxyoctanoic acid, .gamma.	79081-64-4	NBS75K.l	11461	36	C9H16O2	156
2,2-Dimethyl-3-octanone	5340-64-7	NBS75K.l	11589	33	C10H20O	156
1-Pyrrolidinecarboxaldehyde	3760-54-1	NBS75K.l	1402	25	C5H9NO	99
Hexane, 2,5-dimethyl-	592-13-2	NBS75K.l	64205	17	C8H18	114



Data File: /chem/W.i/Wsvr.p/wcbito14.b/425407.d

Date : 28-JUL-2000 11:25

Client ID: EA072400002

Instrument: W.i

Sample Info: 425407;EA072400002;79113;0728R5

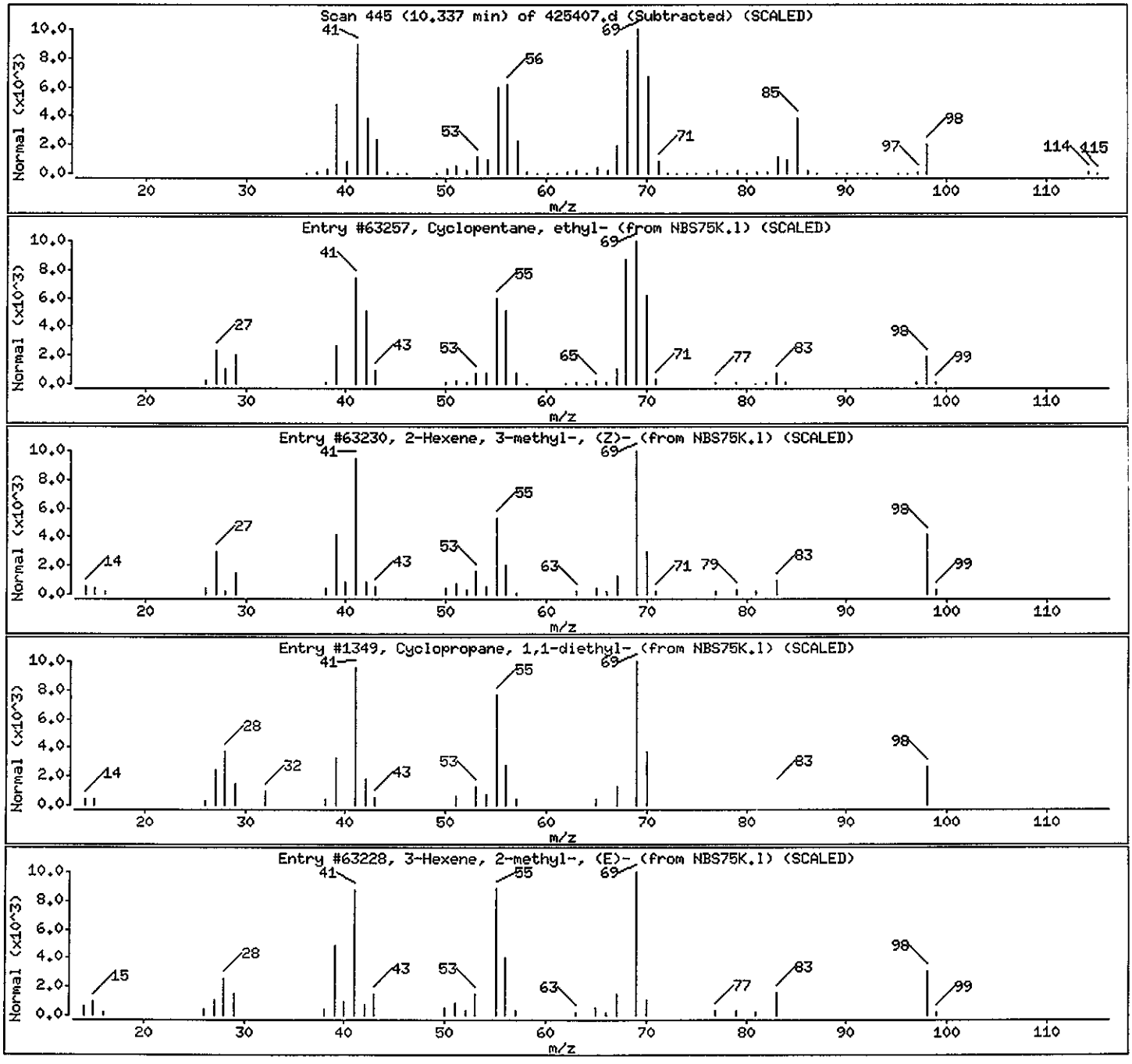
Purge Volume: 200.0

Operator: GMM

Column phase: DB-1

Column diameter: 0.35

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Cyclopentane, ethyl-	1640-89-7	NBS75K.l	63257	86	C7H14	98
2-Hexene, 3-methyl-, (Z)-	10574-36-4	NBS75K.l	63230	43	C7H14	98
Cyclopropane, 1,1-diethyl-	1003-19-6	NBS75K.l	1349	38	C7H14	98
3-Hexene, 2-methyl-, (E)-	692-24-0	NBS75K.l	63228	38	C7H14	98



Data File: /chem/W.i/Wsvr.p/wcbito14.b/425407.d

Date : 28-JUL-2000 11:25

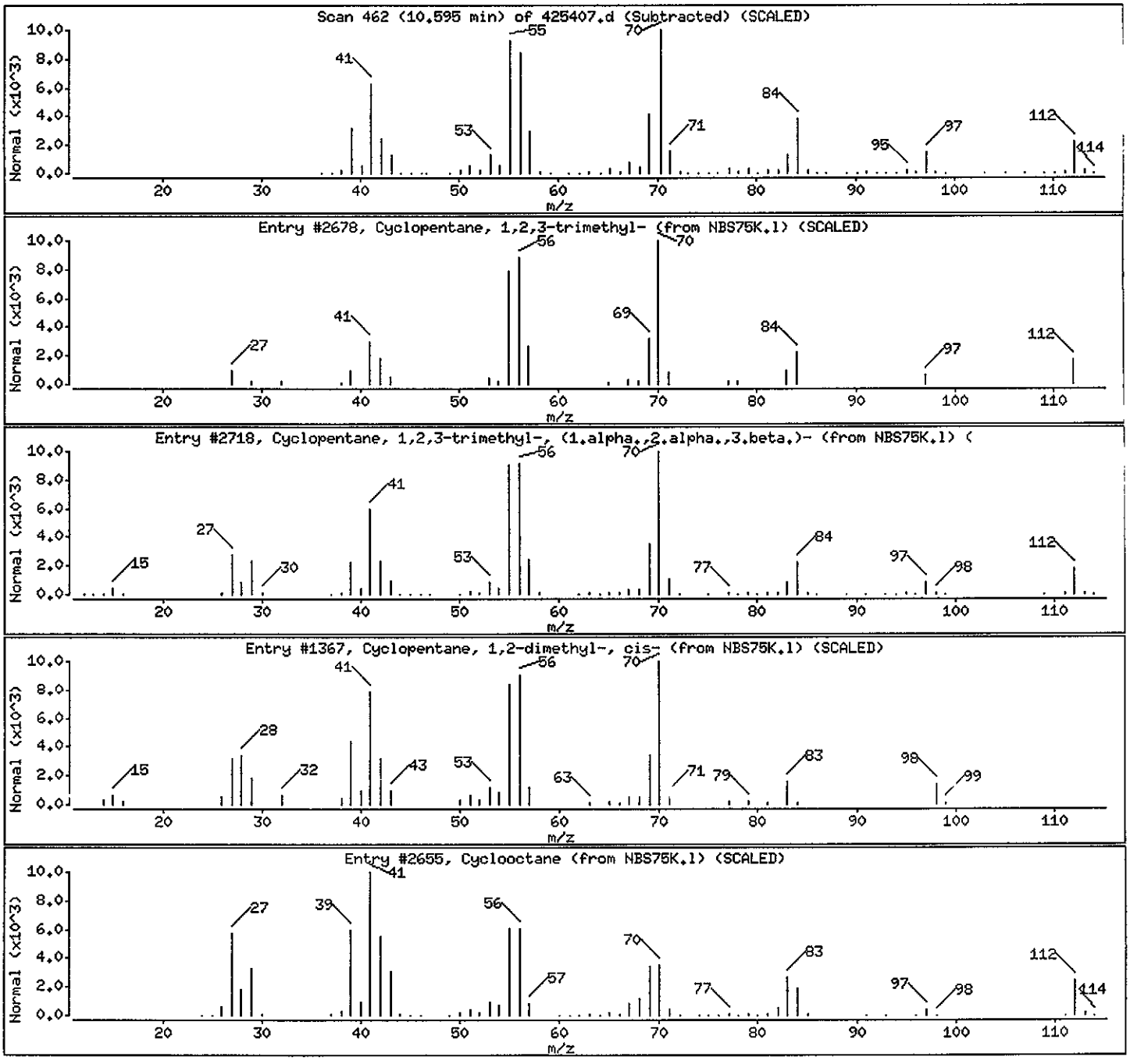
Client ID: EA072400002 Instrument: W.i

Sample Info: 425407;EA072400002;79113;0728R5

Purge Volume: 200.0 Operator: GMM

Column phase: DB-1 Column diameter: 0.35

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Cyclopentane, 1,2,3-trimethyl-	2815-57-8	NBS75K.l	2678	91	C8H16	112
Cyclopentane, 1,2,3-trimethyl-, (1.alpha	15890-40-1	NBS75K.l	2718	91	C8H16	112
Cyclopentane, 1,2-dimethyl-, cis-	1192-18-3	NBS75K.l	1367	68	C7H14	98
Cyclooctane	292-64-8	NBS75K.l	2655	58	C8H16	112



Data File: /chem/W.i/Wsvr.p/wcbito14.b/425407.d

Date : 28-JUL-2000 11:25

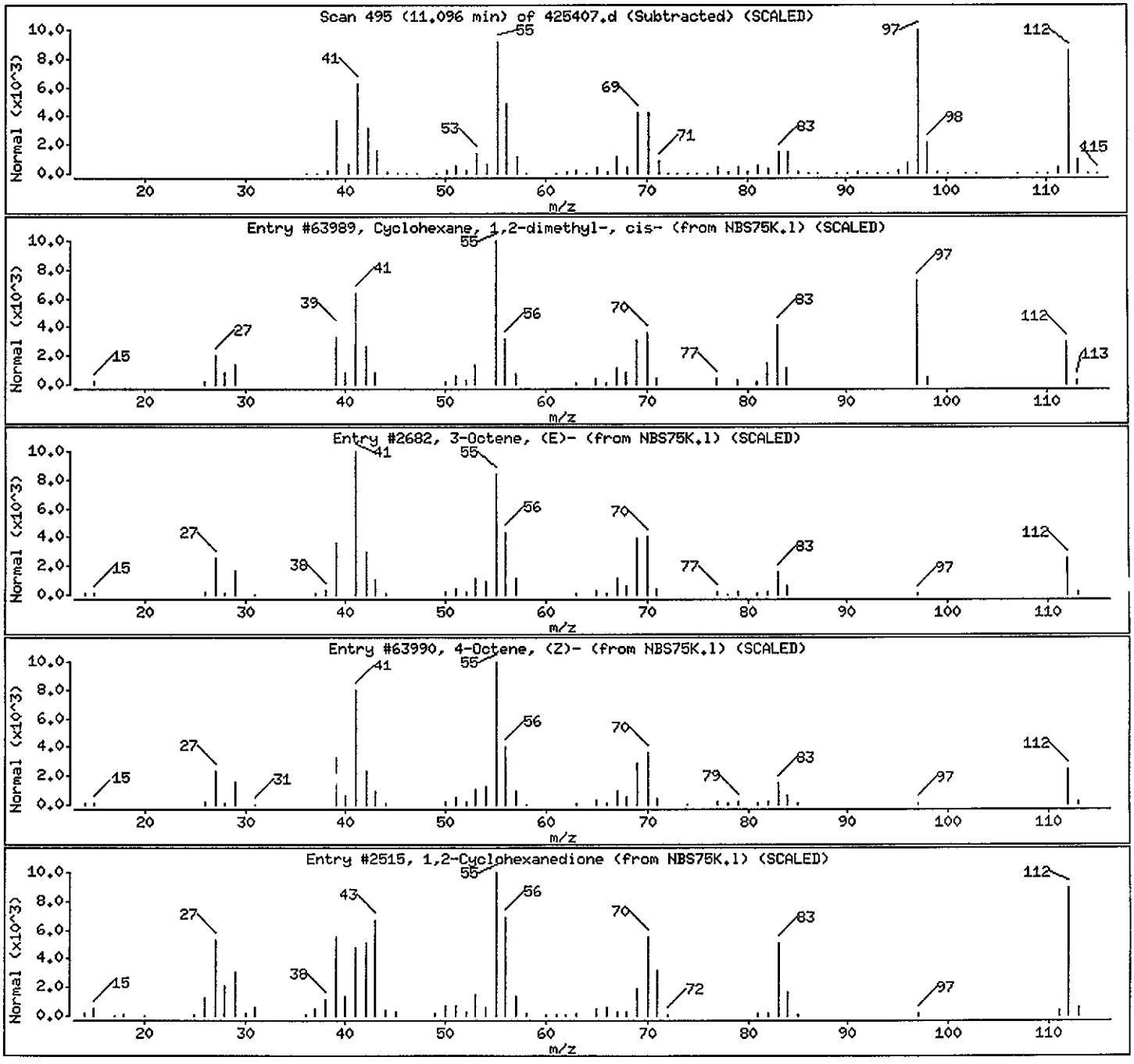
Client ID: EA072400002 Instrument: W.i

Sample Info: 425407;EA072400002;79113;0728R5

Purge Volume: 200.0 Operator: GMM

Column phase: DB-1 Column diameter: 0.35

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown alkylcyclohexane						
Cyclohexane, 1,2-dimethyl-, cis-	2207-01-4	NBS75K.l	63989	87	C8H16	112
3-Octene, (E)-	14919-01-8	NBS75K.l	2682	64	C8H16	112
4-Octene, (Z)-	7642-15-1	NBS75K.l	63990	58	C8H16	112
1,2-Cyclohexanedione	765-87-7	NBS75K.l	2515	58	C6H8O2	112



Data File: /chem/W.i/Wsvr.p/wcbito14.b/425407.d

Date : 28-JUL-2000 11:25

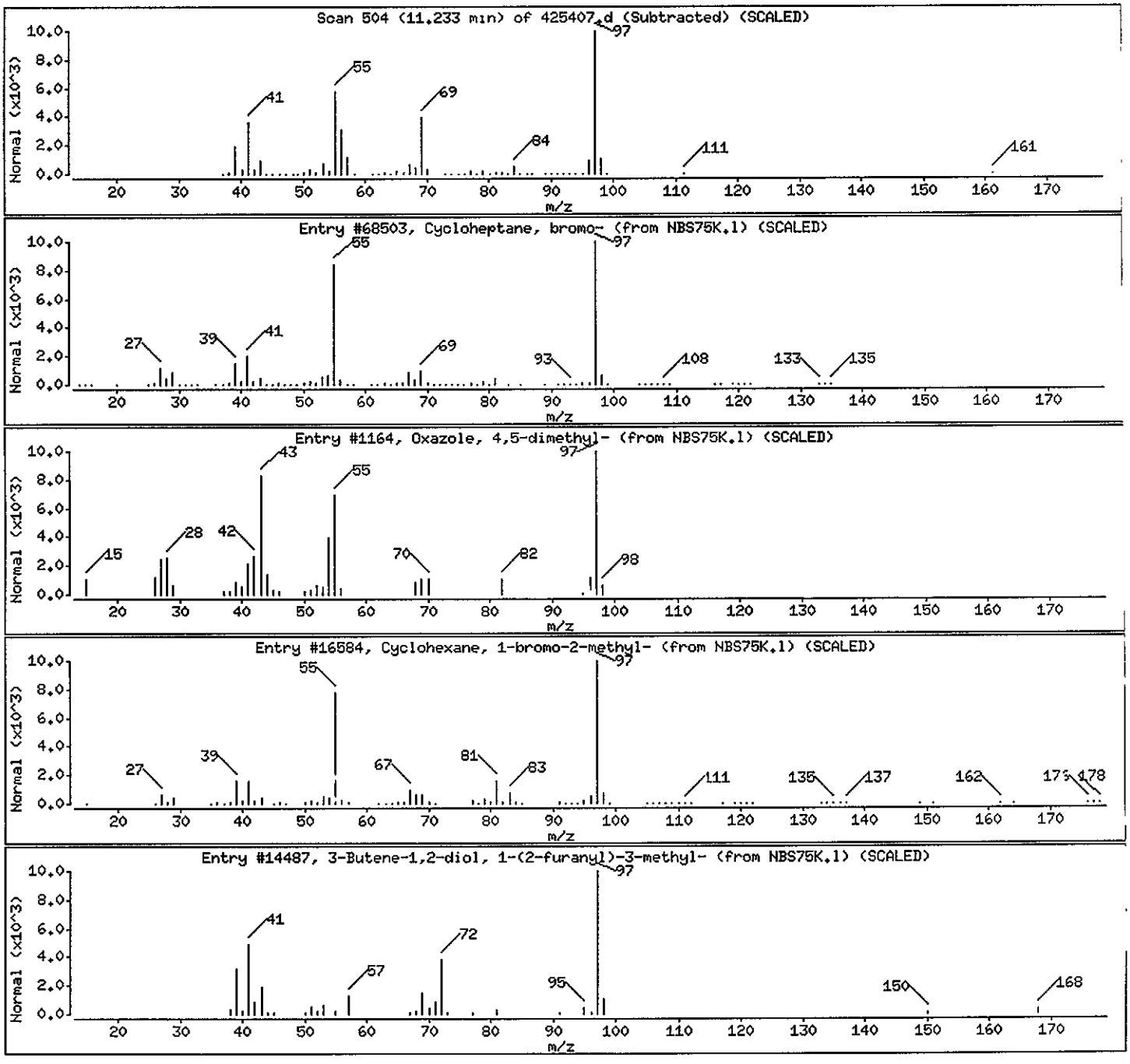
Client ID: EA072400002 Instrument: W.i

Sample Info: 425407;EA072400002;79113;0728R5

Purge Volume: 200.0 Operator: GMM

Column phase: DB-1 Column diameter: 0.35

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Cycloheptane, bromo-	2404-35-5	NBS75K.l	68503	53	C7H13Br	176
Oxazole, 4,5-dimethyl-	20662-83-3	NBS75K.l	1164	36	C5H7NO	97
Cyclohexane, 1-bromo-2-methyl-	6294-39-9	NBS75K.l	16584	36	C7H13Br	176
3-Butene-1,2-diol, 1-(2-furanyl)-3-methy	21141-71-9	NBS75K.l	14487	33	C9H12O3	168



Data File: /chem/W.i/Wsvr.p/wcbito14.b/425407.d

Date : 28-JUL-2000 11:25

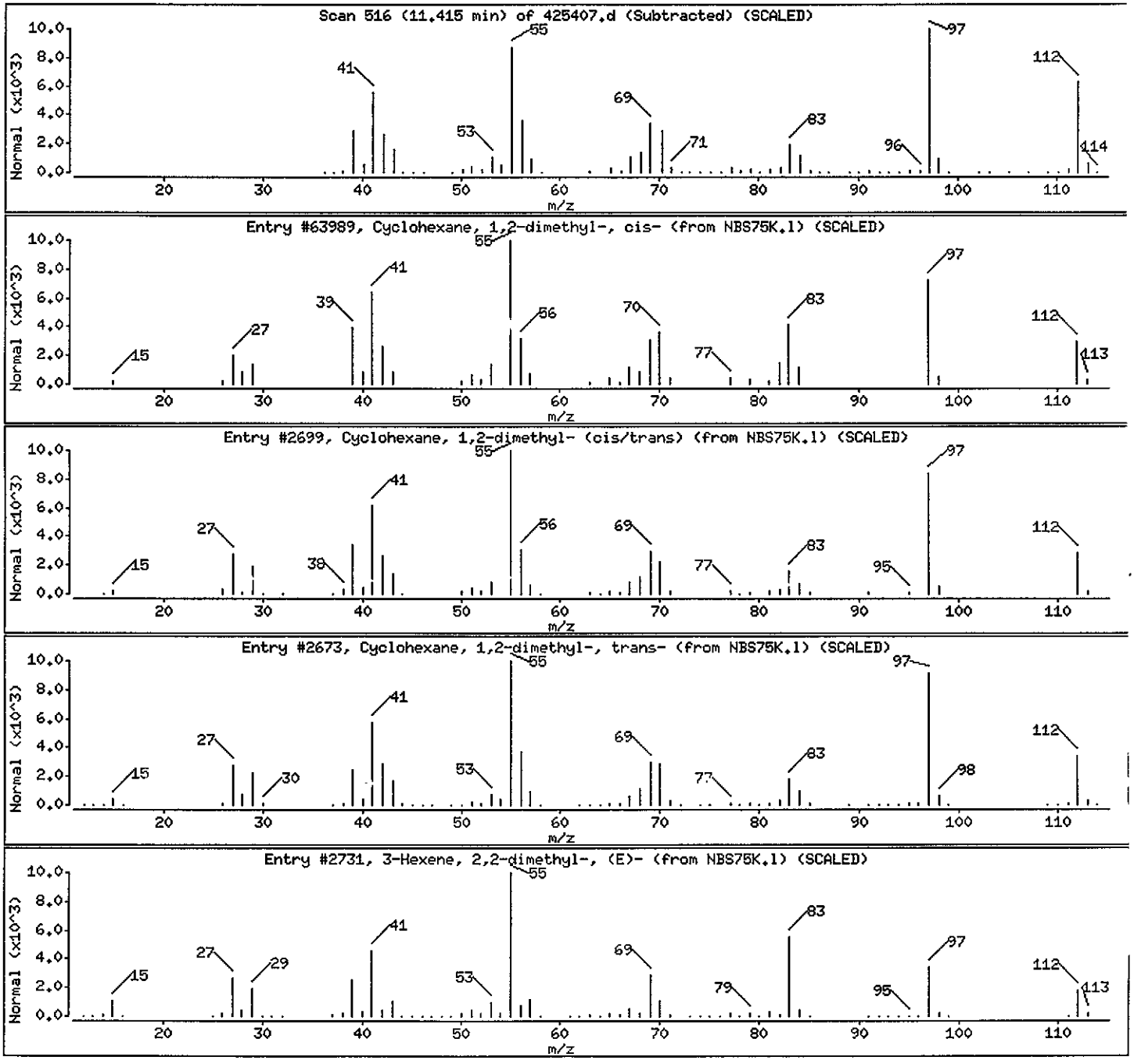
Client ID: EA072400002 Instrument: W.i

Sample Info: 425407;EA072400002;79113;0728R5

Purge Volume: 200.0 Operator: CMH

Column phase: DB-1 Column diameter: 0.35

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown alkylcyclohexane						
Cyclohexane, 1,2-dimethyl-, cis-	2207-01-4	NBS75K.l	63989	90	C8H16	112
Cyclohexane, 1,2-dimethyl- (cis/trans)	583-57-3	NBS75K.l	2699	86	C8H16	112
Cyclohexane, 1,2-dimethyl-, trans-	6876-23-9	NBS75K.l	2673	86	C8H16	112
3-Hexene, 2,2-dimethyl-, (E)-	690-93-7	NBS75K.l	2731	62	C8H16	112



FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

ACCANA SAMPLE NO.

I072400002

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 79113

Matrix: (soil/water) AIR Lab Sample ID: 425405

Sample wt/vol: 200 (g/mL) ML Lab File ID: 425405D

Level: (low/med) LOW Date Received: 07/27/00

% Moisture: not dec. _____ Date Analyzed: 07/28/00

GC Column: DB-1 ID: 0.35 (mm) Dilution Factor: 2.0

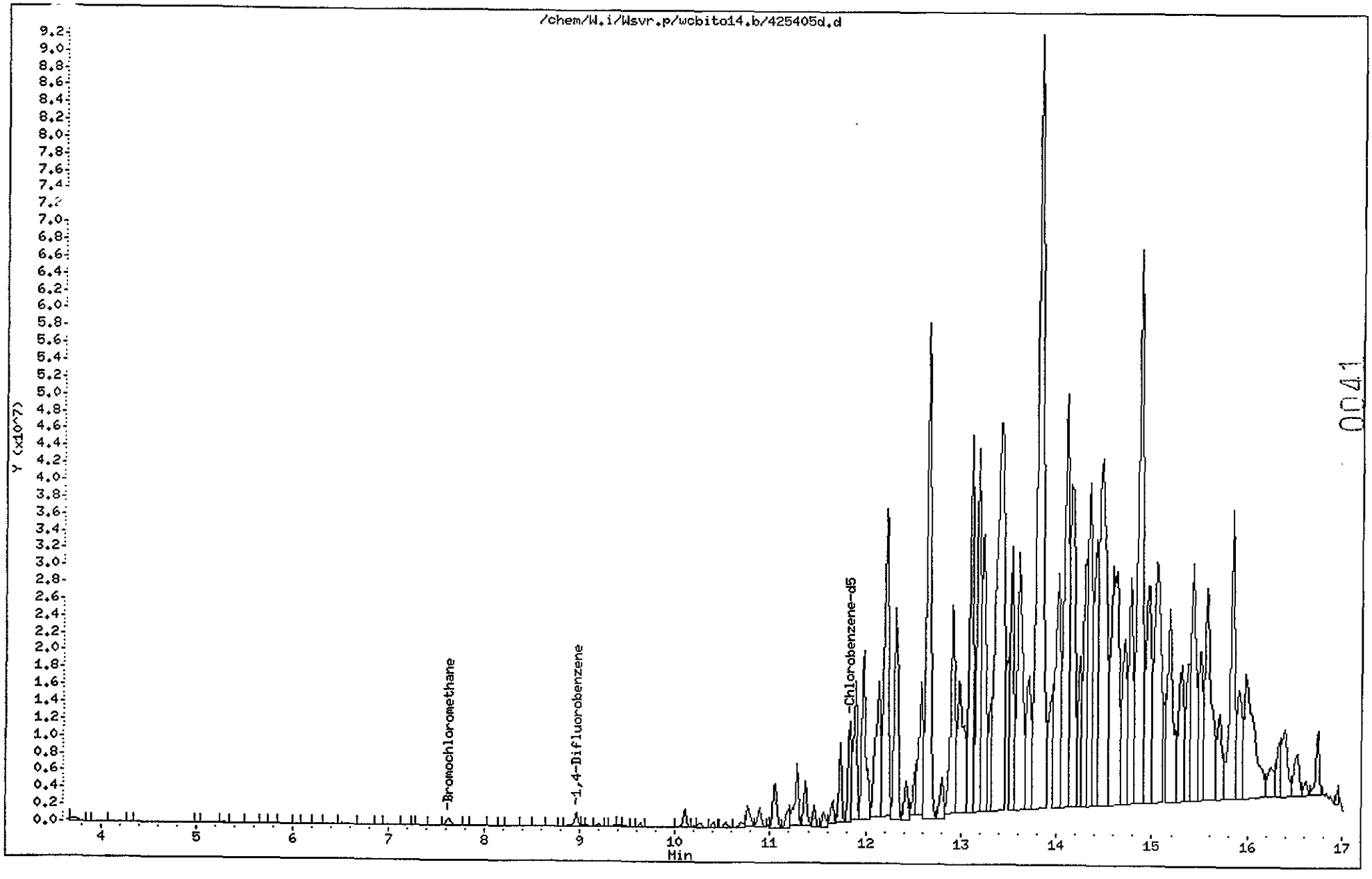
Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) PPBV	Q
74-87-3	Chloromethane	1.0	U
75-01-4	Vinyl Chloride	1.0	U
74-83-9	Bromomethane	1.0	U
75-00-3	Chloroethane	1.0	U
75-69-4	Trichlorofluoromethane	1.0	U
75-09-2	Methylene Chloride	1.0	U
75-34-3	1,1-Dichloroethane	1.0	U
67-66-3	Chloroform	1.0	U
71-55-6	1,1,1-Trichloroethane	1.0	U
56-23-5	Carbon Tetrachloride	1.0	U
71-43-2	Benzene	1.0	U
107-06-2	1,2-Dichloroethane	1.0	U
79-01-6	Trichloroethene	1.0	U
78-87-5	1,2-Dichloropropane	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	U
108-88-3	Toluene	1.0	
10061-02-6	trans-1,3-Dichloropropene	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	U
127-18-4	Tetrachloroethene	1.0	U
108-90-7	Chlorobenzene	1.0	U
100-41-4	Ethylbenzene	48	
1330-20-7	Xylene (total)	230	
100-42-5	Styrene	1.0	U
1330-20-7	Xylene (m,p)	180	E
95-47-6	Xylene (o)	51	
79-34-5	1,1,2,2-Tetrachloroethane	1.0	U
541-73-1	1,3-Dichlorobenzene	1.0	U
106-46-7	1,4-Dichlorobenzene	1.0	U
95-50-1	1,2-Dichlorobenzene	1.0	U

Data File: /chem/W.i/Wsvr.p/wcbito14.b/425405d.d
Date : 28-JUL-2000 11:59
Client ID: I072400002
Sample Info: 425405;I072400002;79113;0728R5
Purge Volume: 200.0
Column phase: DB-1

Instrument: W.i

Operator: GMM
Column diameter: 0.35



STL Burlington

AIR TOXICS QUANTITATION REPORT

Data file : /chem/W.i/Wsvr.p/wcbito14.b/425405d.d
Lab Smp Id: 425405 Client Smp ID: I072400002
Inj Date : 28-JUL-2000 11:59
Operator : GMM Inst ID: W.i
Smp Info : 425405;I072400002;79113;0728R5
Misc Info : 100mL
Comment :
Method : /chem/W.i/Wsvr.p/wcbito14.b/ato14.m
Meth Date : 31-Jul-2000 20:19 cpc Quant Type: ISTD
Cal Date : 10-JUL-2000 13:37 Cal File: cb0005i2.d
Als bottle: 2
Dil Factor: 2.00000
Integrator: HP RTE Compound Sublist: ACCANA.sub
Target Version: 3.50
Processing Host: chemsvr4

Concentration Formula: Amt * DF * X* Uf/Vo) * CpndVariable

Name	Value	Description
DF	2.00000	Dilution Factor
X	200.00000	method volume factor
Uf	1.00000	ng unit correction factor
Vo	200.00000	Sample Volume purged (mL)

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)
	2 Chloromethane	50	Compound Not Detected.					
	4 Vinyl Chloride	62	Compound Not Detected.					
	5 Bromomethane	94	Compound Not Detected.					
	6 Chloroethane	64	Compound Not Detected.					
	7 Trichlorofluoromethane	101	Compound Not Detected.					
	9 Methylene Chloride	49	Compound Not Detected.					
	11 1,1-Dichloroethane	63	Compound Not Detected.					
*	13 Bromochloromethane	128	7.636	7.638	(1.000)	348786	10.0000	
	14 Chloroform	83	Compound Not Detected.					
	15 1,2-Dichloroethane	62	Compound Not Detected.					
	16 1,1,1-Trichloroethane	97	Compound Not Detected.					
	17 Benzene	78	Compound Not Detected.					
	18 Carbon Tetrachloride	117	Compound Not Detected.					
*	19 1,4-Difluorobenzene	114	8.971	8.973	(1.000)	1529762	10.0000	
	20 1,2-Dichloropropane	63	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)
	21 Trichloroethene	95	Compound Not Detected.					
	22 cis-1,3-Dichloropropene	75	Compound Not Detected.					
	23 trans-1,3-Dichloropropene	75	Compound Not Detected.					
	24 1,1,2-Trichloroethane	83	Compound Not Detected.					
	25 Toluene	92	10.656	10.673	(0.900)	48337	0.50083	1.0
	27 Tetrachloroethene	166	Compound Not Detected.					
*	28 Chlorobenzene-d5	117	11.839	11.841	(1.000)	1926014	10.0000	
	29 Chlorobenzene	112	Compound Not Detected.					
	30 Ethylbenzene	91	12.113	12.099	(1.023)	5214314	24.1764	48
	31 Xylene (m,p)	106	12.219	12.221	(1.032)	7156580	90.5941	180(AQ)
	32 Styrene	104	Compound Not Detected.					
M	33 Xylene (total)	106				9129389	116.158	230
	34 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					
	35 Xylene (o)	106	12.553	12.539	(1.060)	1972809	25.5640	51(H)
	38 1,3-Dichlorobenzene	146	Compound Not Detected.					
	39 1,4-Dichlorobenzene	146	Compound Not Detected.					
	40 1,2-Dichlorobenzene	146	Compound Not Detected.					

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
Q - Qualifier signal failed the ratio test.
H - Operator selected an alternate compound hit.

STL Burlington

AIR TOXICS QUANTITATION REPORT

Data file : /chem/W.i/Wsvr.p/wcbito14.b/425405d.d
Lab Smp Id: 425405 Client Smp ID: I072400002
Inj Date : 28-JUL-2000 11:59
Operator : GMM Inst ID: W.i
Smp Info : 425405;I072400002;79113;0728R5
Misc Info : 100mL
Comment :
Method : /chem/W.i/Wsvr.p/wcbito14.b/ato14.m
Meth Date : 31-Jul-2000 20:19 cpc Quant Type: ISTD
Cal Date : 10-JUL-2000 13:37 Cal File: cb0005i2.d
Als bottle: 2
Dil Factor: 2.00000
Integrator: HP RTE Compound Sublist: ACCANA.sub
Target Version: 3.50
Processing Host: chemsvr4

Concentration Formula: Amt * DF * X* Uf/Vo) * CpndVariable

Name	Value	Description
DF	2.00000	Dilution Factor
X	200.00000	method volume factor
Uf	1.00000	ng unit correction factor
Vo	200.00000	Sample Volume purged (mL)

Cpnd Variable Local Compound Variable

ISTD	RT	AREA	AMOUNT
* 28 Chlorobenzene-d5	11.839	28653714	10.000

	CONCENTRATIONS			QUANT		
RT	AREA	ON-COL(ppbv)	FINAL(ppbv)	QUAL	LIBRARY	LIB ENTRY	CPND #
Unknown alkane				CAS #:			
12.644	1.895e+08	95.1270009	130	0		0	28
Unknowns				CAS #:			
13.402	2.925e+08	102.072331	200	0		0	28

RT	AREA	CONCENTRATIONS ON-COL(ppbv)	CONCENTRATIONS FINAL(ppbv)	QUAL	QUANT LIBRARY	QUANT LIB ENTRY	QUANT CPND #
Unknown alkylcyclohexane				CAS #:			
13.600	1.373e+08	47.9269357	96	0		0	28
Unknown alkane				CAS #:			
14.101	1.952e+08	68.1152600	140	0		0	28
Unknown C3-alkylbenzene				CAS #:			
14.146	1.338e+08	46.7050344	93	0		0	28
Unknown alkylcyclohexane				CAS #:			
14.343	1.366e+08	47.6715696	95	0		0	28
Unknowns				CAS #:			
14.465	2.453e+08	85.6066824	170	0		0	28
Unknown alkane				CAS #:			
14.586	1.658e+08	57.8491801	120	0		0	28
Unknown alkane				CAS #:			
14.859	2.198e+08	76.7184459	150	0		0	28
Unknowns				CAS #:			
15.041	1.422e+08	49.6264164	99	0		0	28

Data File: /chem/W.i/Wsvr.p/wcbito14.b/425405d.d

Date : 28-JUL-2000 11:59

Client ID: I072400002

Instrument: W.i

Sample Info: 425405;I072400002;79113;0728R5

Purge Volume: 200.0

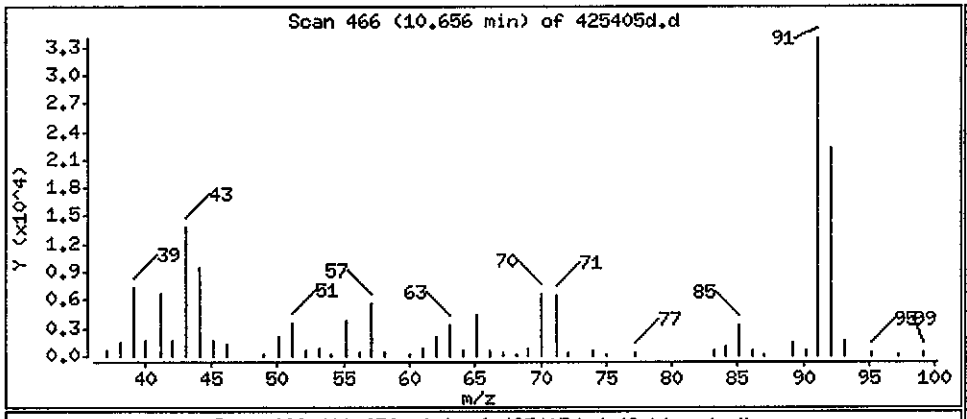
Operator: GMH

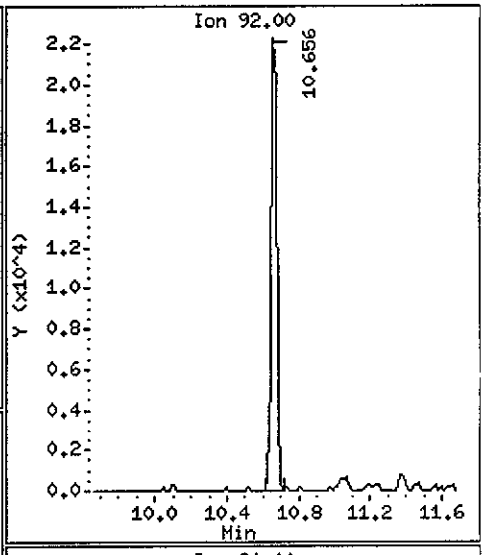
Column phase: DB-1

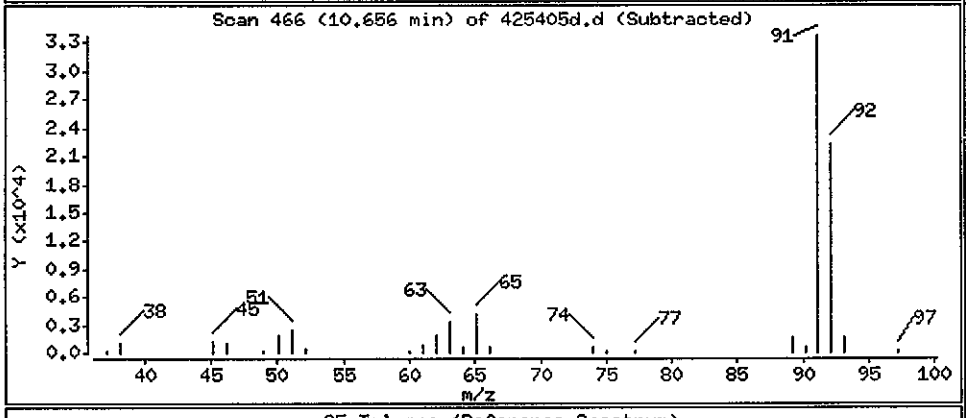
Column diameter: 0.35

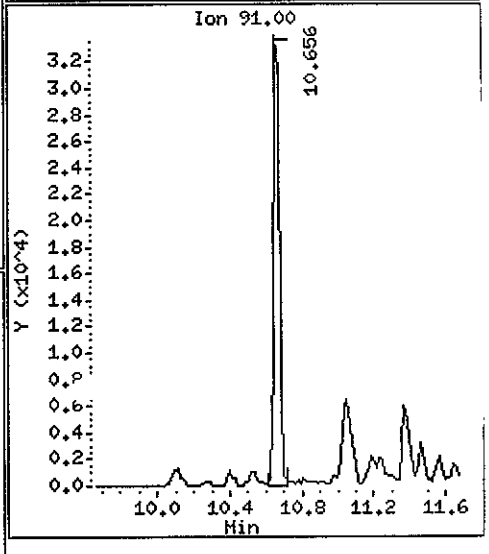
25 Toluene

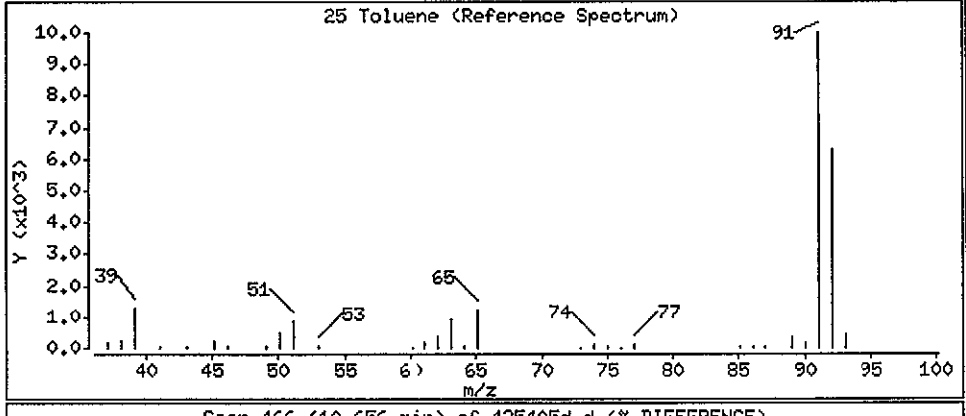
Concentration: 1.0 ppbv

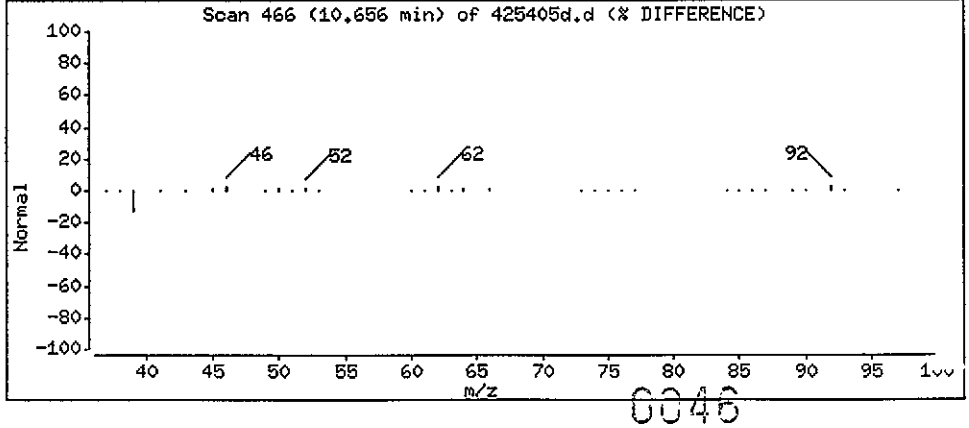












Data File: /chem/W.i/Wsvr.p/wcbito14.b/425405d.d

Date : 28-JUL-2000 11:59

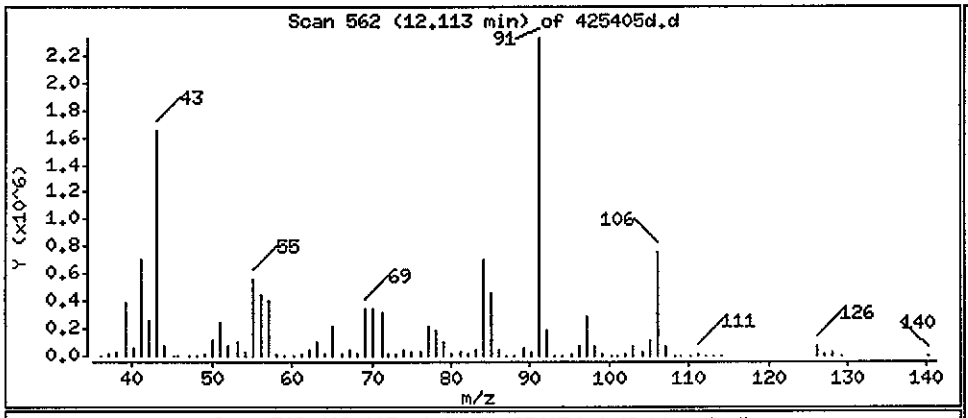
Client ID: I072400002 Instrument: W.i

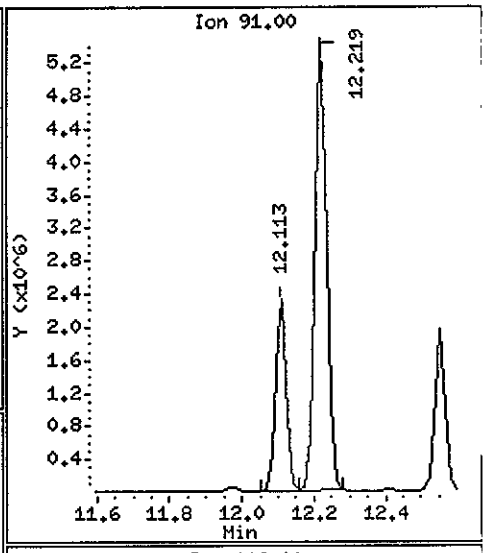
Sample Info: 425405;I072400002;79113;0728R5

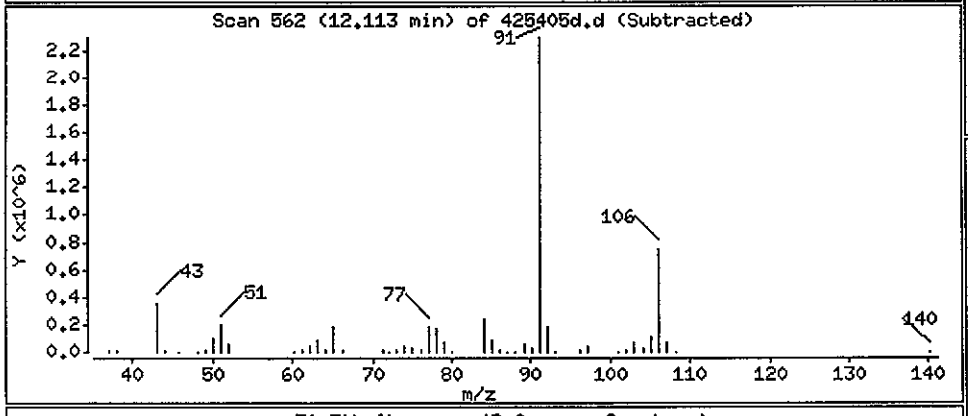
Purge Volume: 200.0 Operator: GHM

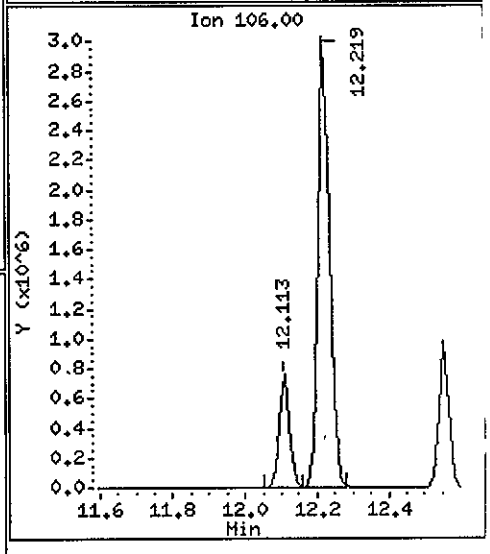
Column phase: DB-1 Column diameter: 0.35

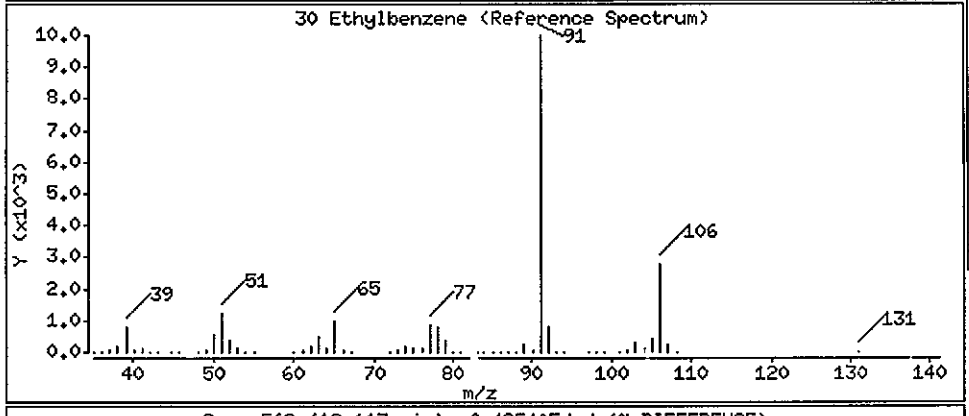
30 Ethylbenzene Concentration: 48 ppbv

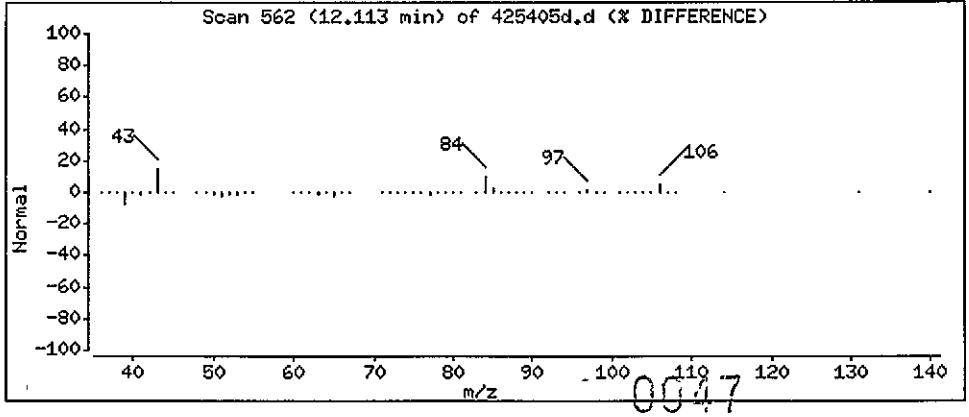












Data File: /chem/W.i/Wsvr.p/wcbito14.b/425405d.d

Date : 22-JUL-2000 [illegible]:39

Client ID: I072400002

Instrument: W.i

Sample Info: 425405;I072400002;79113;0728R5

Purge Volume: 200.0

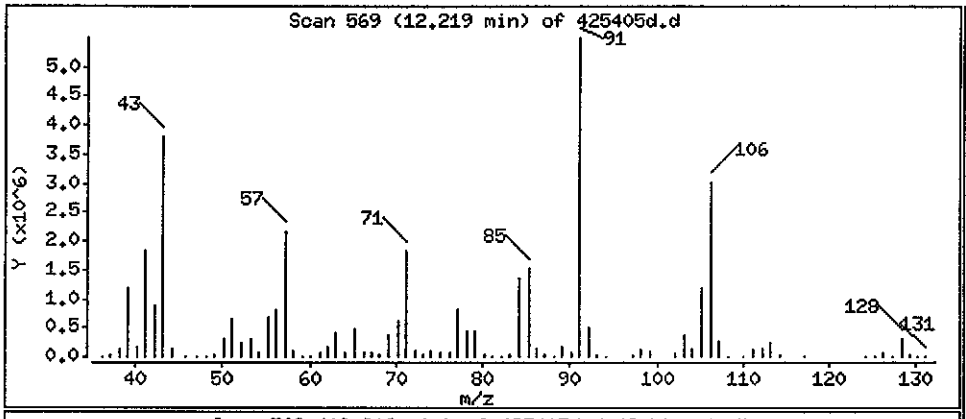
Operator: GHM

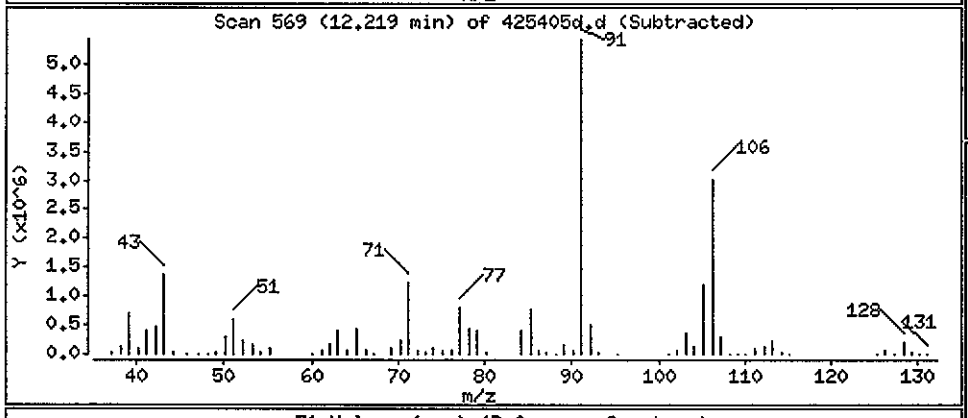
Column phase: DB-1

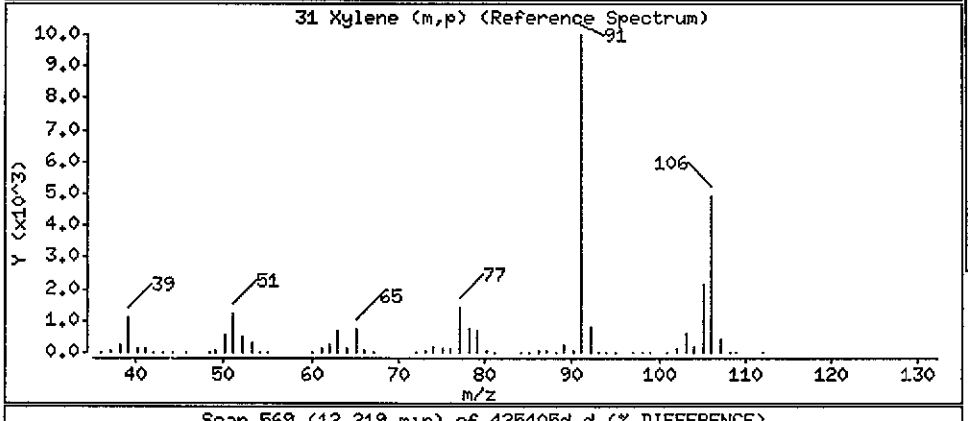
Column diameter: 0.35

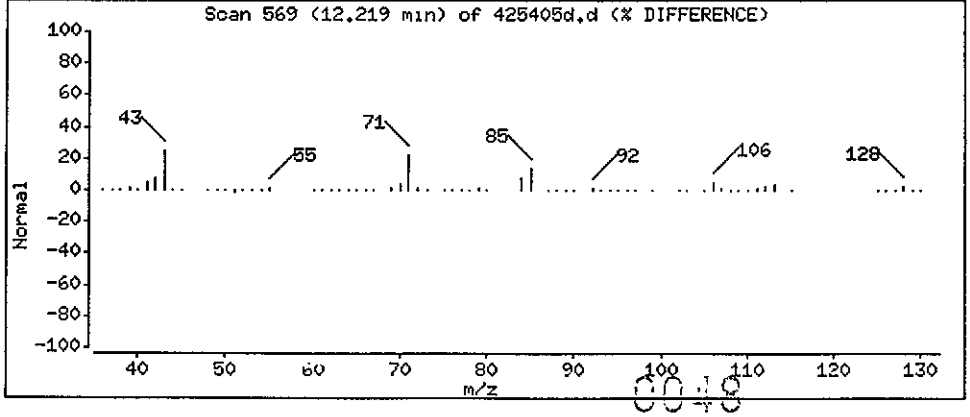
31 Xylene (m,p)

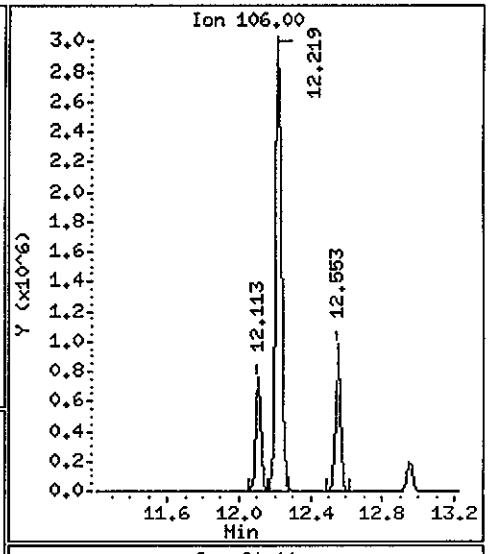
Concentration: 180 ppbv

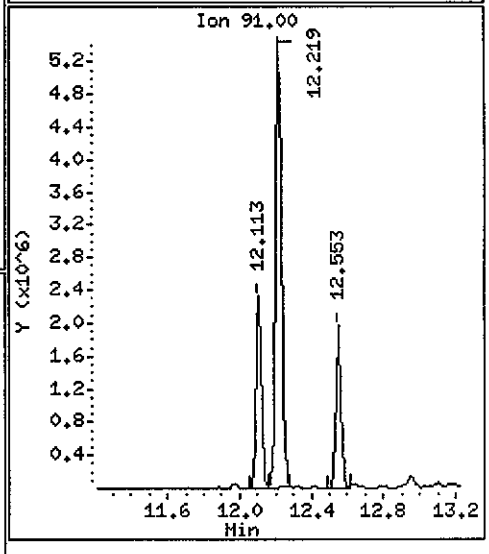












Data File: /chem/W.i/Wsvr.p/wcbito14.b/425405d.d

Date : 28-JUL-2000 11:59

Client ID: I072400002

Instrument: W.i

Sample Info: 425405;I072400002;79113;0728R5

Purge Volume: 200.0

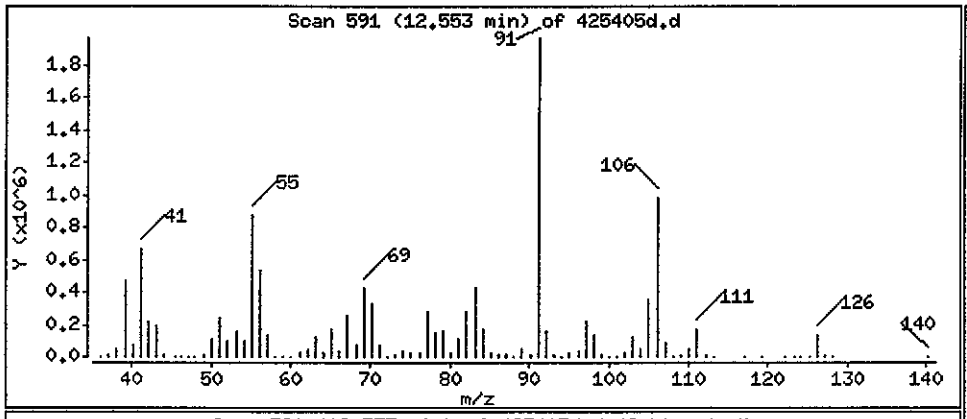
Operator: GMM

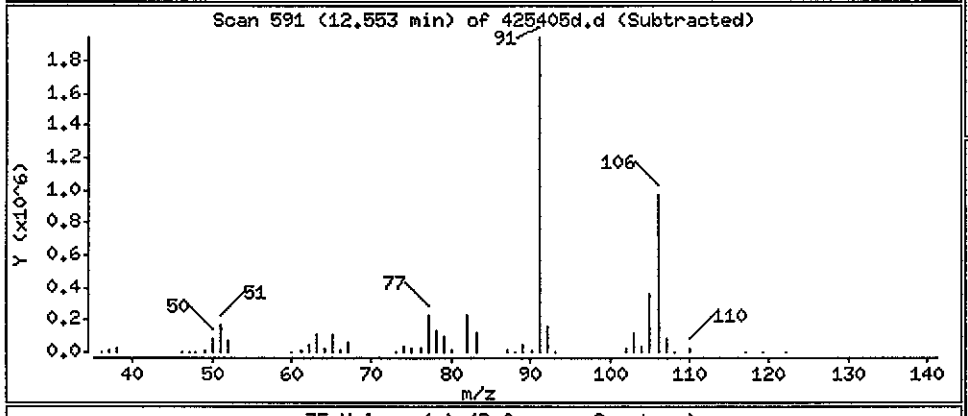
Column phase: DB-1

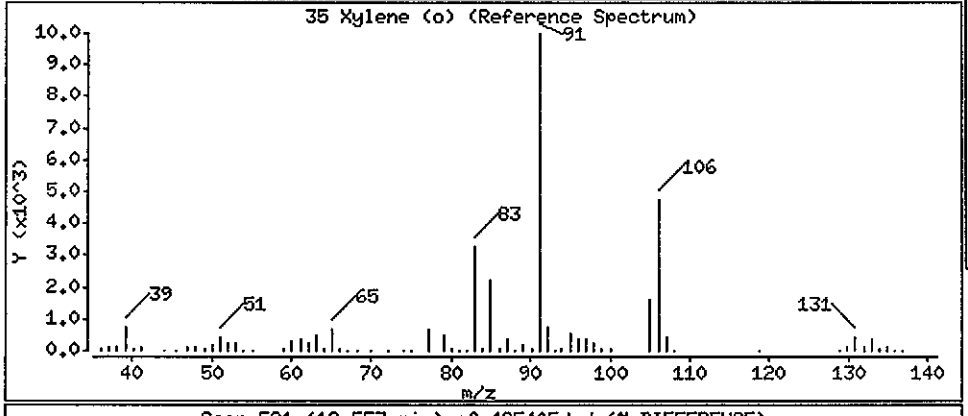
Column diameter: 0.35

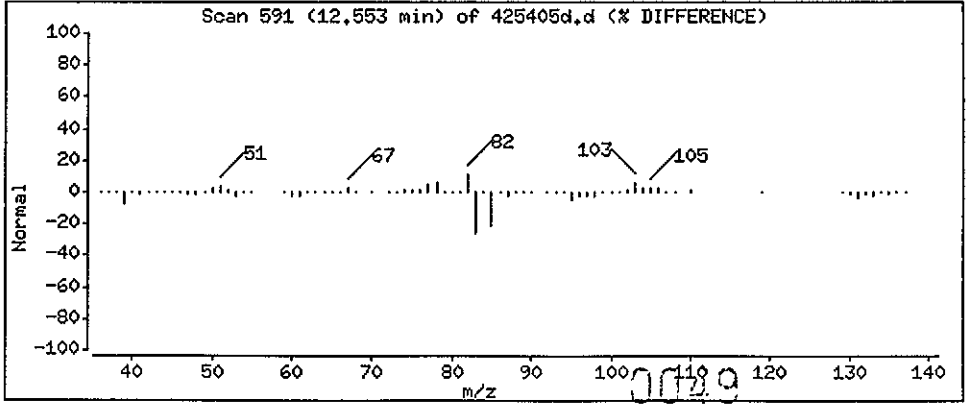
35 Xylene (o)

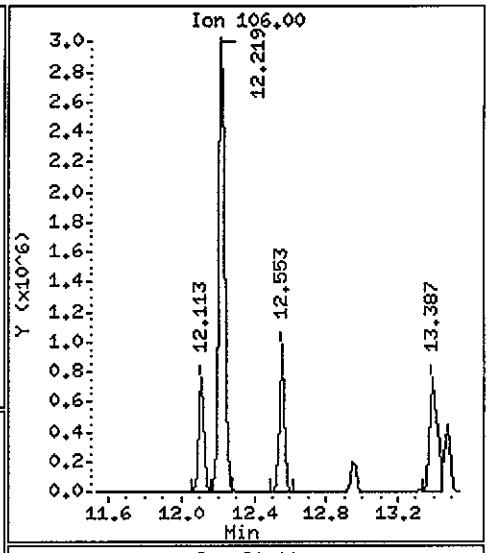
Concentration: 51 ppbv

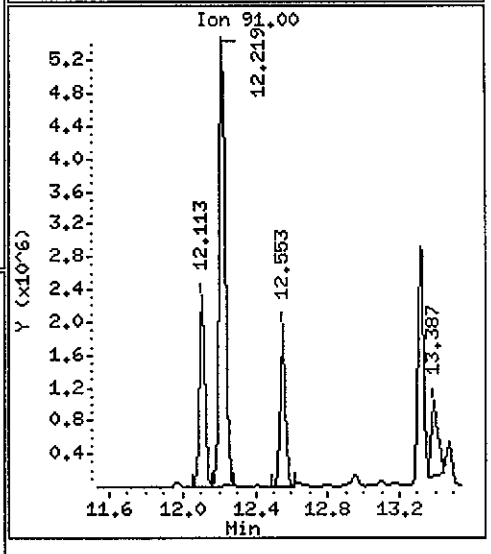












Data File: /chem/W.i/Wsvr.p/wcbito14.b/425405d.d

Date : 28-JUL-2000 11:59

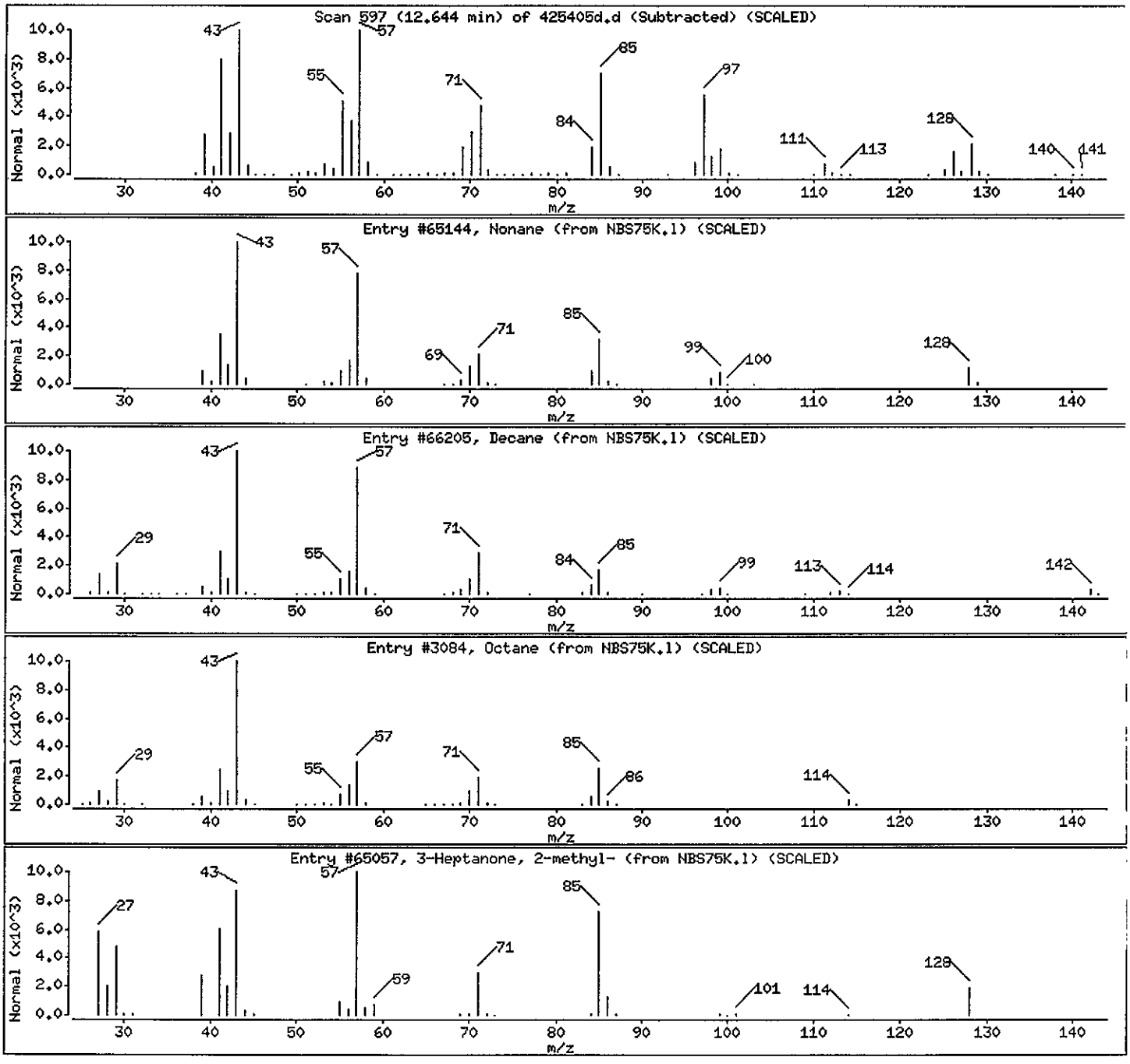
Client ID: I072400002 Instrument: W.i

Sample Info: 425405;I072400002;79113;0728R5

Purge Volume: 200.0 Operator: GMM

Column phase: DB-1 Column diameter: 0.35

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown alkane						
Nonane	111-84-2	NBS75K.l	65144	86	C9H20	128
Decane	124-18-5	NBS75K.l	66205	43	C10H22	142
Octane	111-65-9	NBS75K.l	3084	38	C8H18	114
3-Heptanone, 2-methyl-	13019-20-0	NBS75K.l	65057	38	C8H16O	128



Data File: /chem/W.i/Wsvr.p/wcbito14.b/425405d.d

Date : 28-JUL-2000 11:59

Client ID: I072400002

Instrument: W.i

Sample Info: 425405;I072400002;79113;0728R5

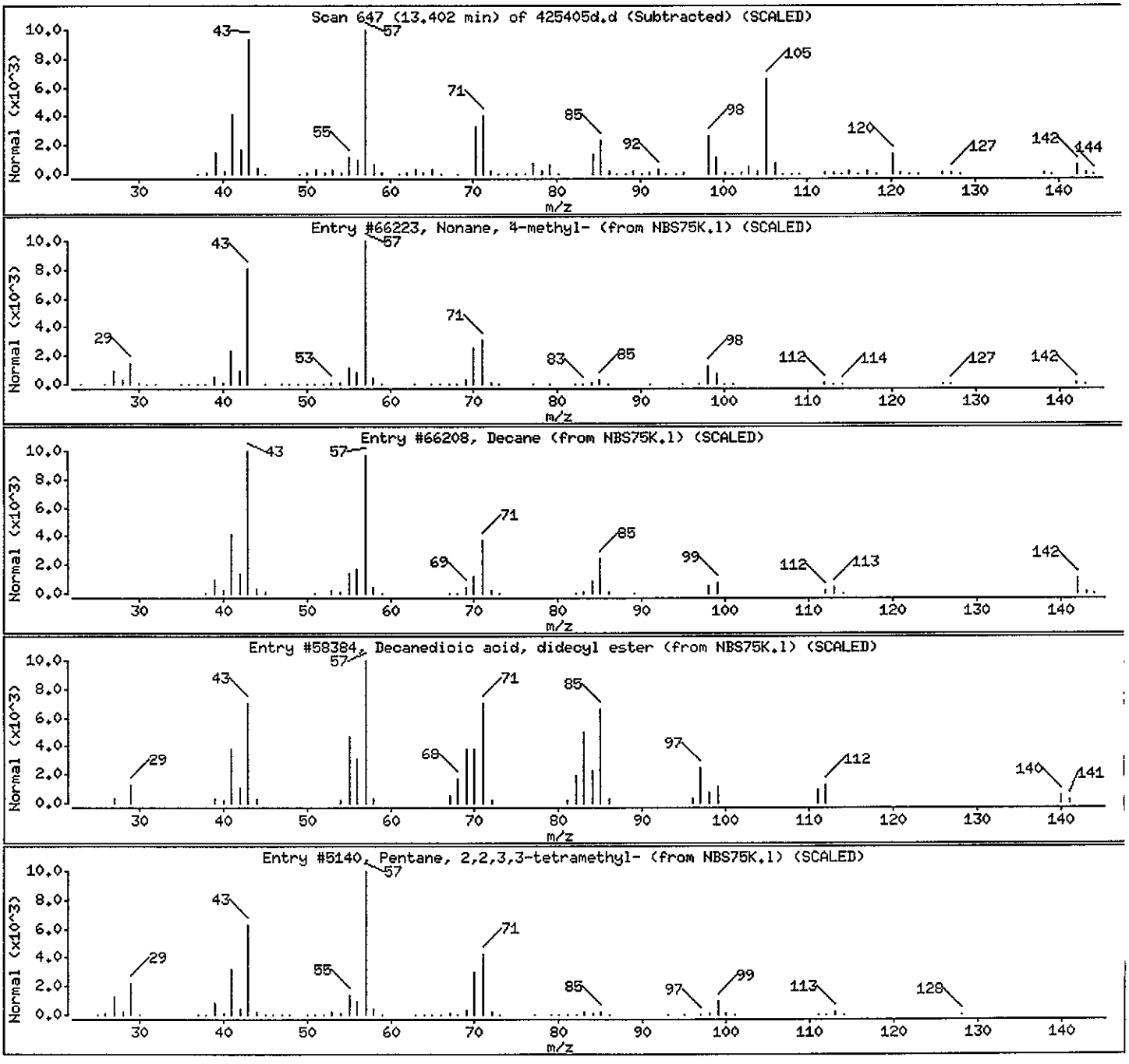
Purge Volume: 200.0

Operator: GHM

Column phase: DB-1

Column diameter: 0.35

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknowns						
Nonane, 4-methyl-	17301-94-9	NBS75K.l	66223	76	C10H22	142
Decane	124-18-5	NBS75K.l	66208	64	C10H22	142
Decanedioic acid, didecyl ester	2432-89-5	NBS75K.l	58384	53	C30H5804	482
Pentane, 2,2,3,3-tetramethyl-	7154-79-2	NBS75K.l	5140	47	C9H20	128



Data File: /chem/W.i/Wsvr.p/wcbito14.b/425405d.d

Date : 28-JUL-2000 11:59

Client ID: I072400002

Instrument: W.i

Sample Info: 425405;I072400002;79113;0728R5

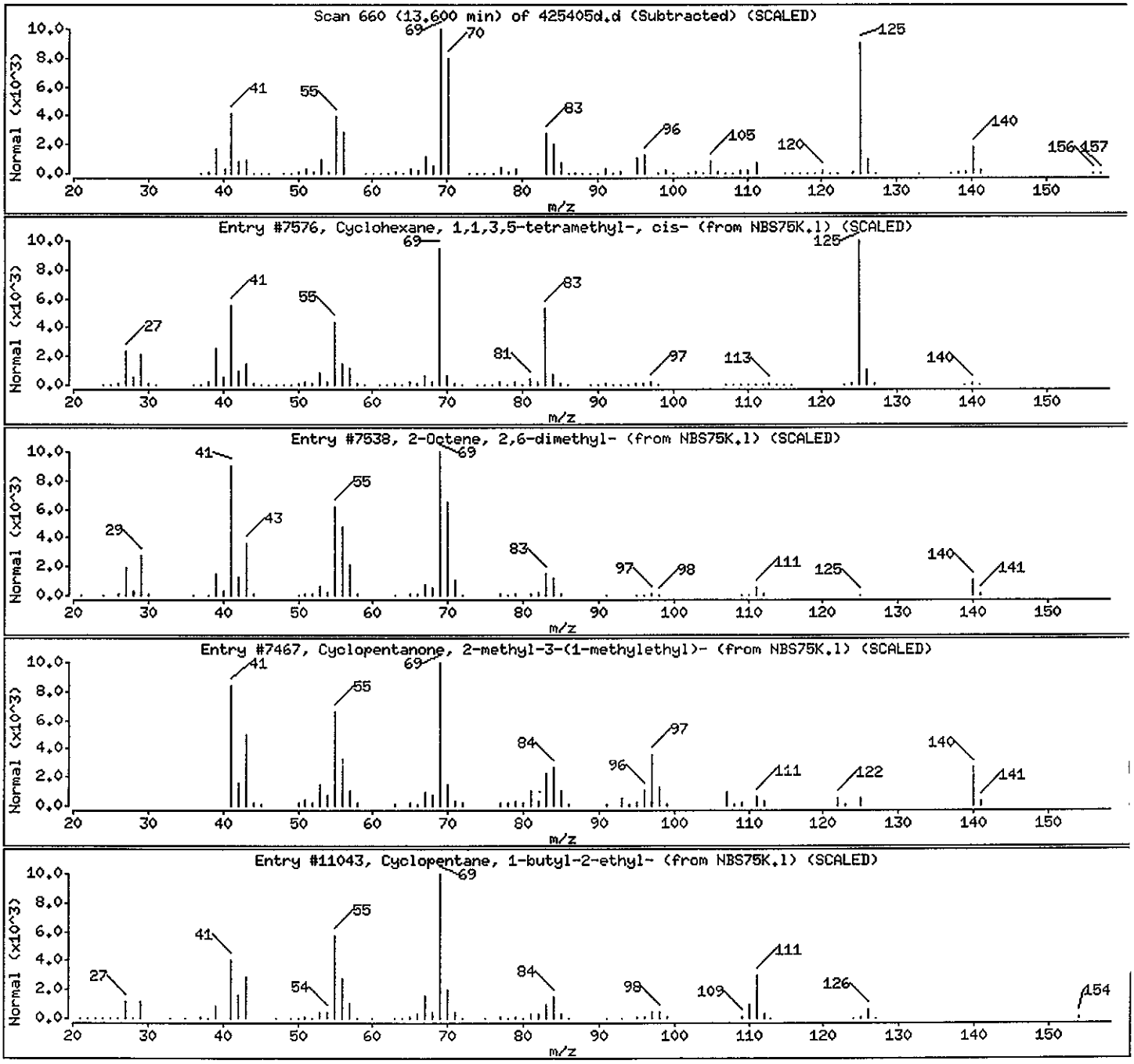
Purge Volume: 200.0

Operator: GHM

Column phase: DB-1

Column diameter: 0.35

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown alkylcyclohexane						
Cyclohexane, 1,1,3,5-tetramethyl-, cis-	50876-32-9	NBS75K.l	7576	43	C10H20	140
2-Octene, 2,6-dimethyl-	4057-42-5	NBS75K.l	7538	38	C10H20	140
Cyclopentanone, 2-methyl-3-(1-methylethy	54549-81-4	NBS75K.l	7467	38	C9H160	140
Cyclopentane, 1-butyl-2-ethyl-	72993-32-9	NBS75K.l	11043	35	C11H22	154



Data File: /chem/W.i/Wsvr.p/wcbito14.b/425405d.d

Date : 28-JUL-2000 11:59

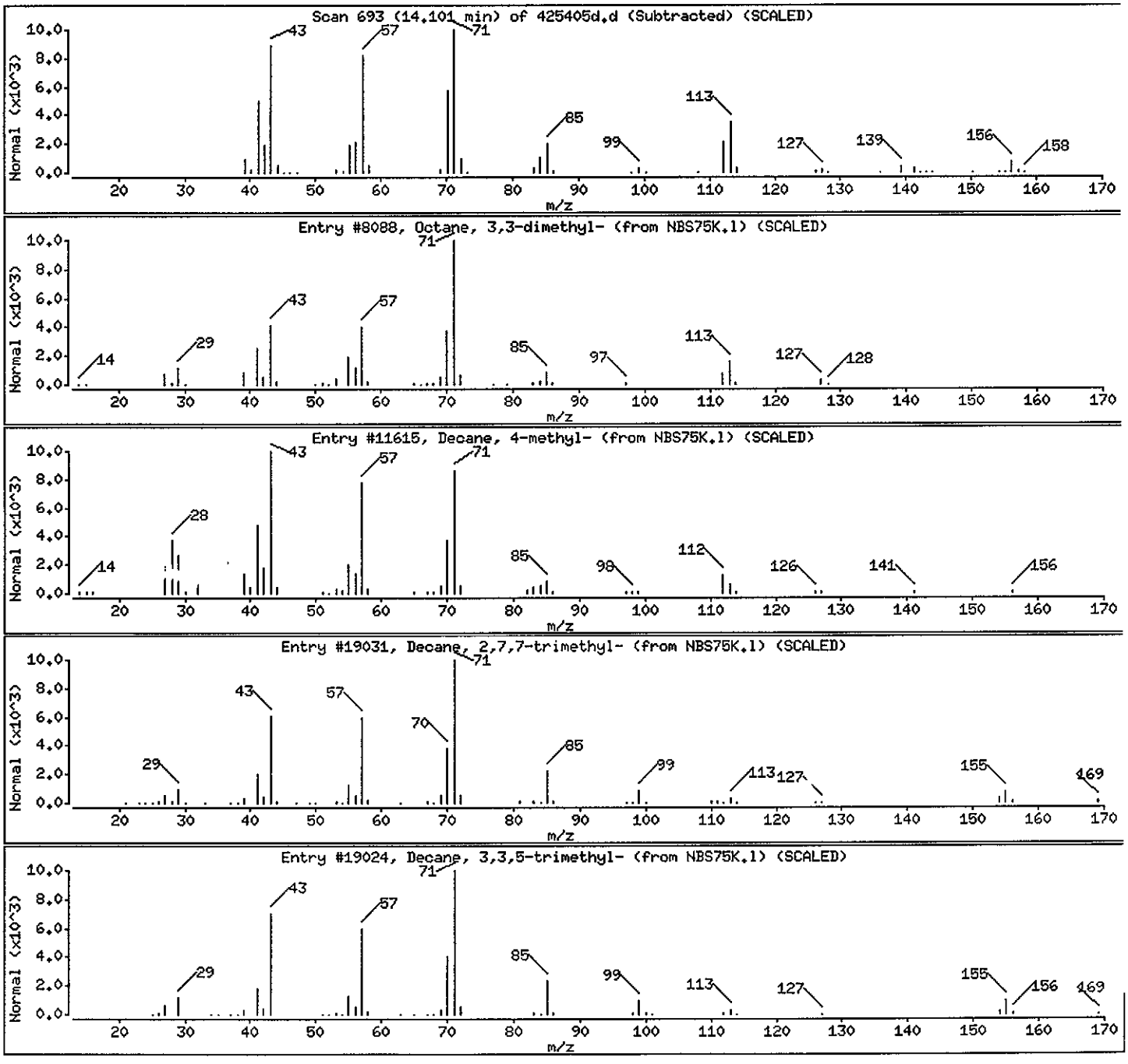
Client ID: I072400002 Instrument: W.i

Sample Info: 425405;I072400002;79113;0728R5

Purge Volume: 200.0 Operator: GHM

Column phase: DB-1 Column diameter: 0.35

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown alkane						
Octane, 3,3-dimethyl-	4110-44-5	NBS75K.l	8088	64	C10H22	142
Decane, 4-methyl-	2847-72-5	NBS75K.l	11615	64	C11H24	156
Decane, 2,7,7-trimethyl-	62338-15-2	NBS75K.l	19031	53	C13H28	184
Decane, 3,3,5-trimethyl-	62338-13-0	NBS75K.l	19024	53	C13H28	184



Data File: /chem/W.i/Wsvr.p/wcbito14.b/425405d.d

Date : 28-JUL-2000 11:59

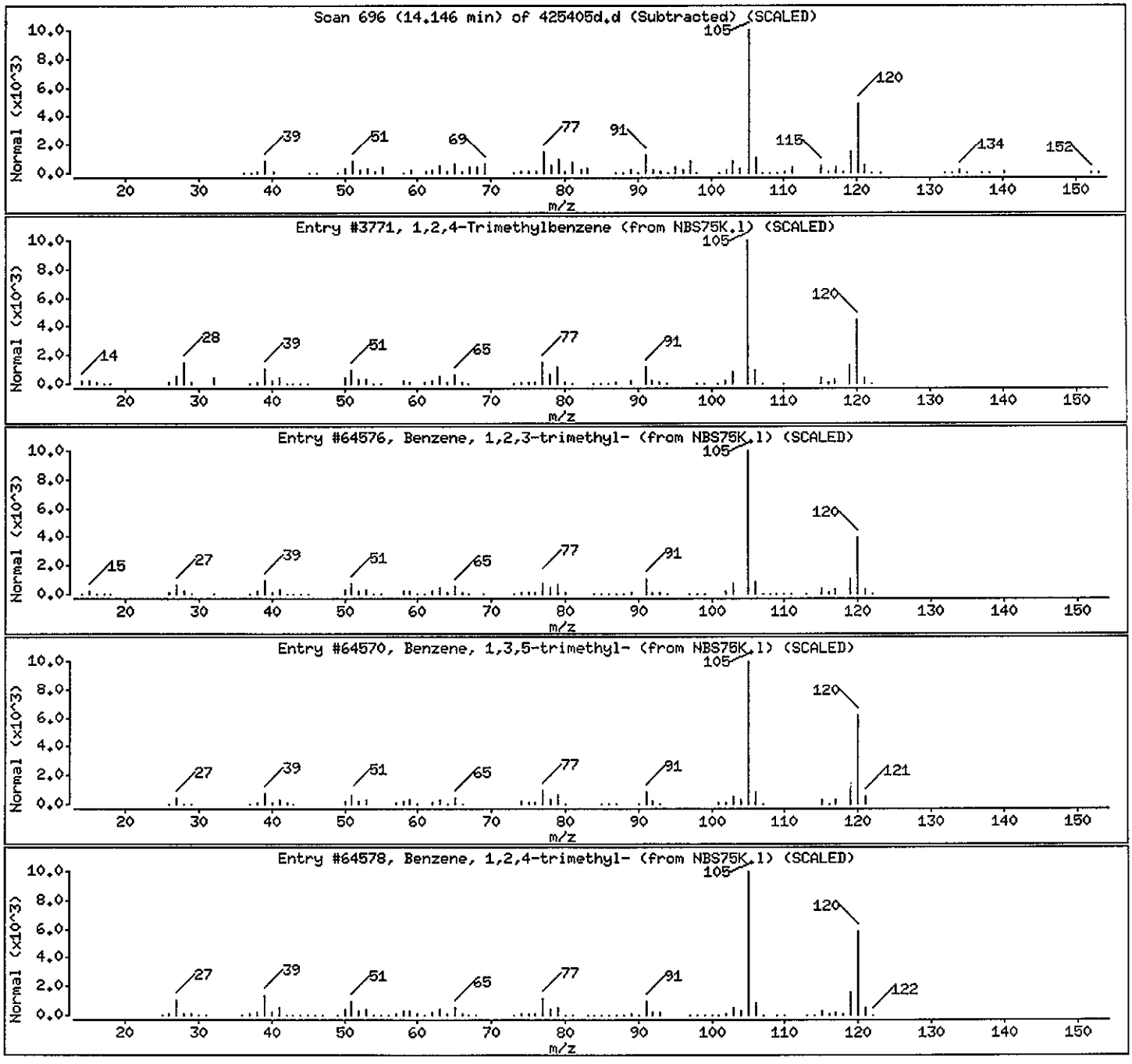
Client ID: I072400002 Instrument: W.i

Sample Info: 425405;I072400002;79113;0728R5

Purge Volume: 200.0 Operator: GHM

Column phase: DB-1 Column diameter: 0.35

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown C3-alkylbenzene						
1,2,4-Trimethylbenzene	95-36-3	NBS75K.l	3771	96	C9H12	120
Benzene, 1,2,3-trimethyl-	526-73-8	NBS75K.l	64576	95	C9H12	120
Benzene, 1,3,5-trimethyl-	108-67-8	NBS75K.l	64570	94	C9H12	120
Benzene, 1,2,4-trimethyl-	95-63-6	NBS75K.l	64578	93	C9H12	120



Data File: /chem/W.i/Wsvr.p/wcbito14.b/425405d.d

Date : 28-JUL-2000 11:59

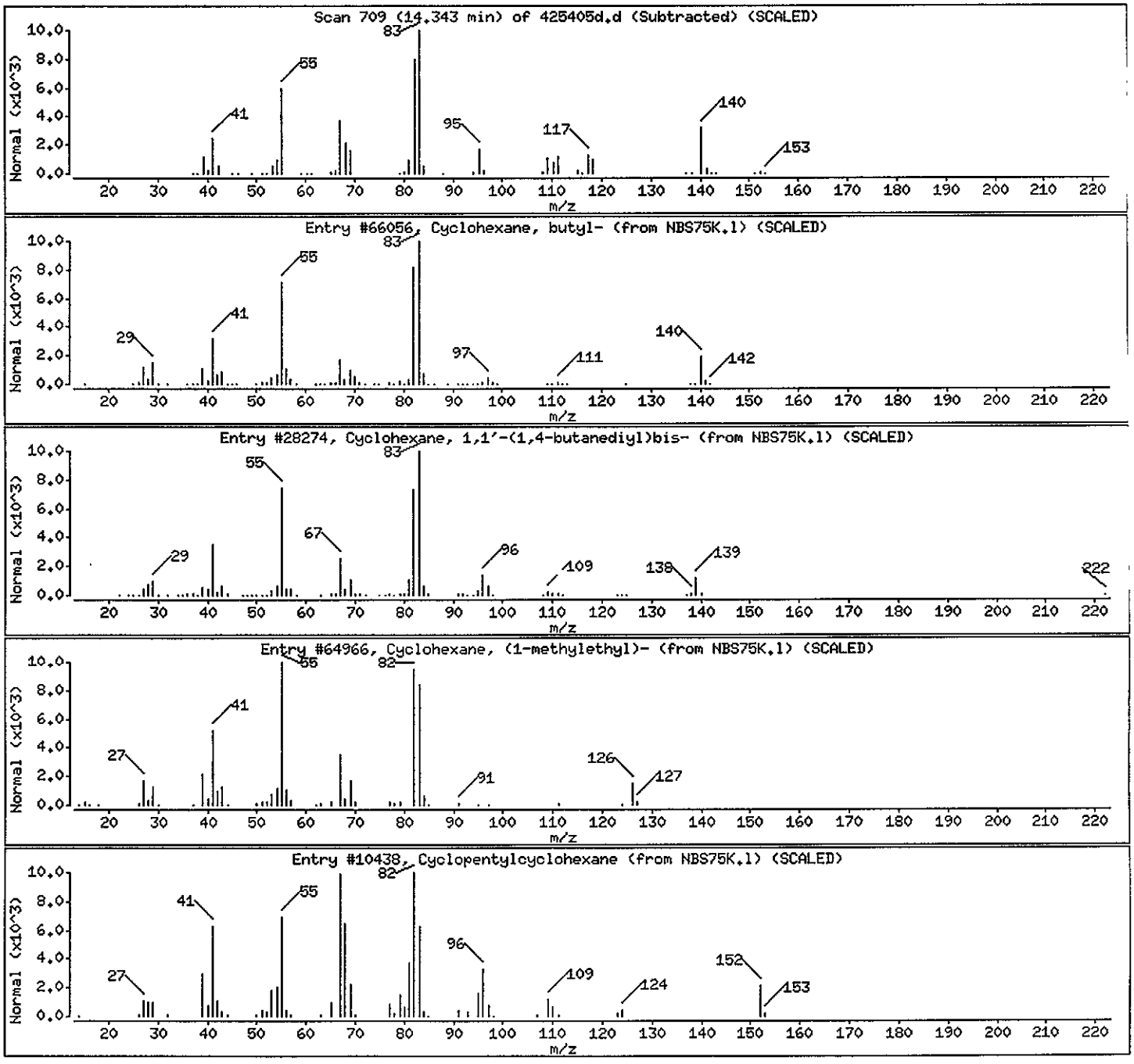
Client ID: I072400002 Instrument: W.i

Sample Info: 425405;I072400002;79113;0728R5

Purge Volume: 200.0 Operator: GMM

Column phase: DB-1 Column diameter: 0.35

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown alkylcyclohexane						
Cyclohexane, butyl-	1678-93-9	NBS75K.l	66056	53	C10H20	140
Cyclohexane, 1,1'-(1,4-butanediyl)bis-	6165-44-2	NBS75K.l	28274	53	C16H30	222
Cyclohexane, (1-methylethyl)-	696-29-7	NBS75K.l	64966	50	C9H18	126
Cyclopentylcyclohexane	1606-08-2	NBS75K.l	10438	50	C11H20	152



Data File: /chem/W.i/[illegible]vr.p/wcbito14.b/425405d.d

Date : 28-JUL-2000 11:59

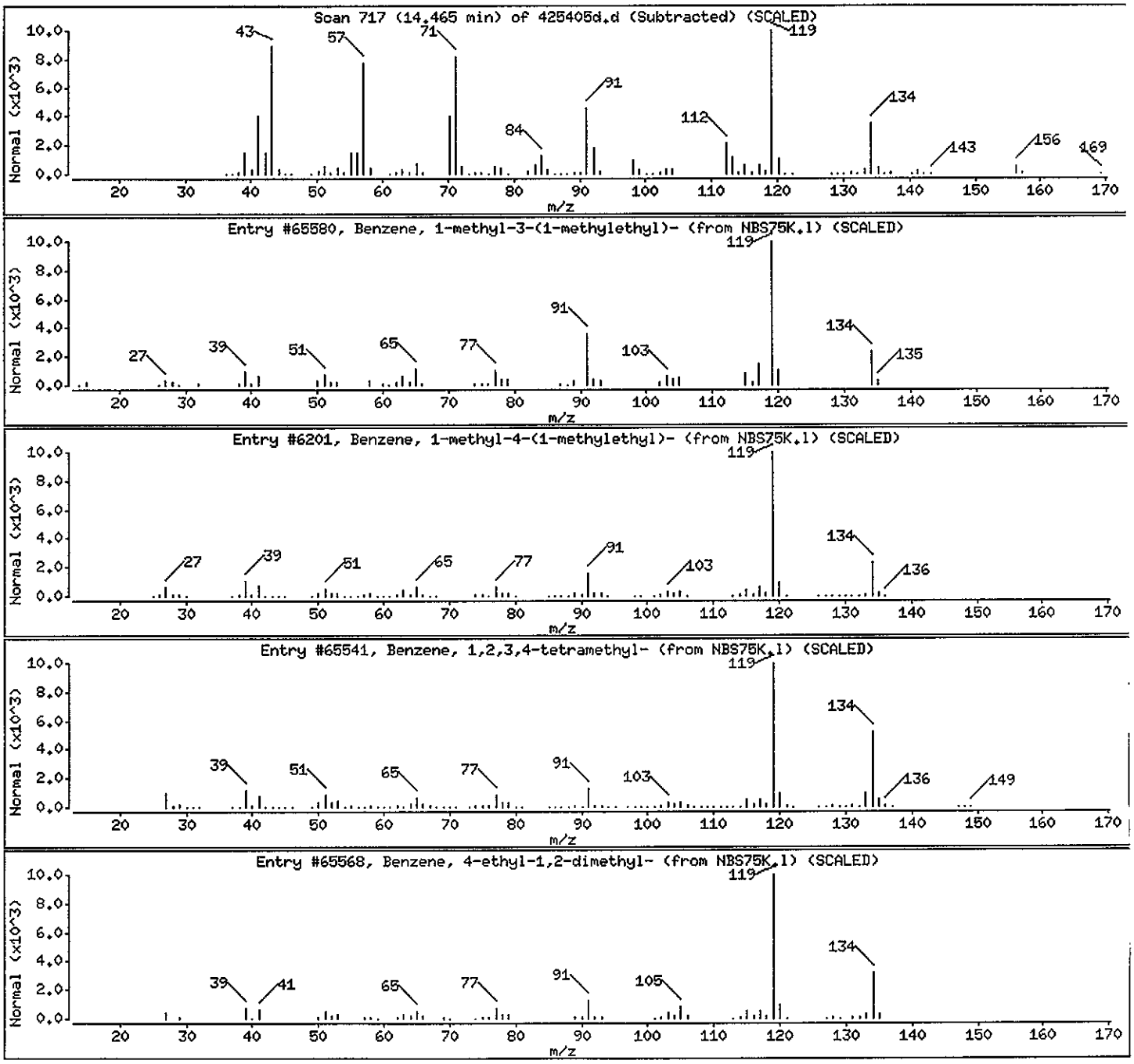
Client ID: I072400002 Instrument: W.i

Sample Info: 425405;I072400002;79113;0728R5

Purge Volume: 200.0 Operator: GMM

Column phase: DB-1 Column diameter: 0.35

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknowns						
Benzene, 1-methyl-3-(1-methylethyl)-	535-77-3	NBS75K.l	65580	42	C10H14	134
Benzene, 1-methyl-4-(1-methylethyl)-	99-87-6	NBS75K.l	6201	42	C10H14	134
Benzene, 1,2,3,4-tetramethyl-	488-23-3	NBS75K.l	65541	38	C10H14	134
Benzene, 4-ethyl-1,2-dimethyl-	934-80-5	NBS75K.l	65568	38	C10H14	134



Data File: /chem/W.i/Wsvr.p/wcbito14.b/425405d.d

Date : 28-JUL-2000 11:59

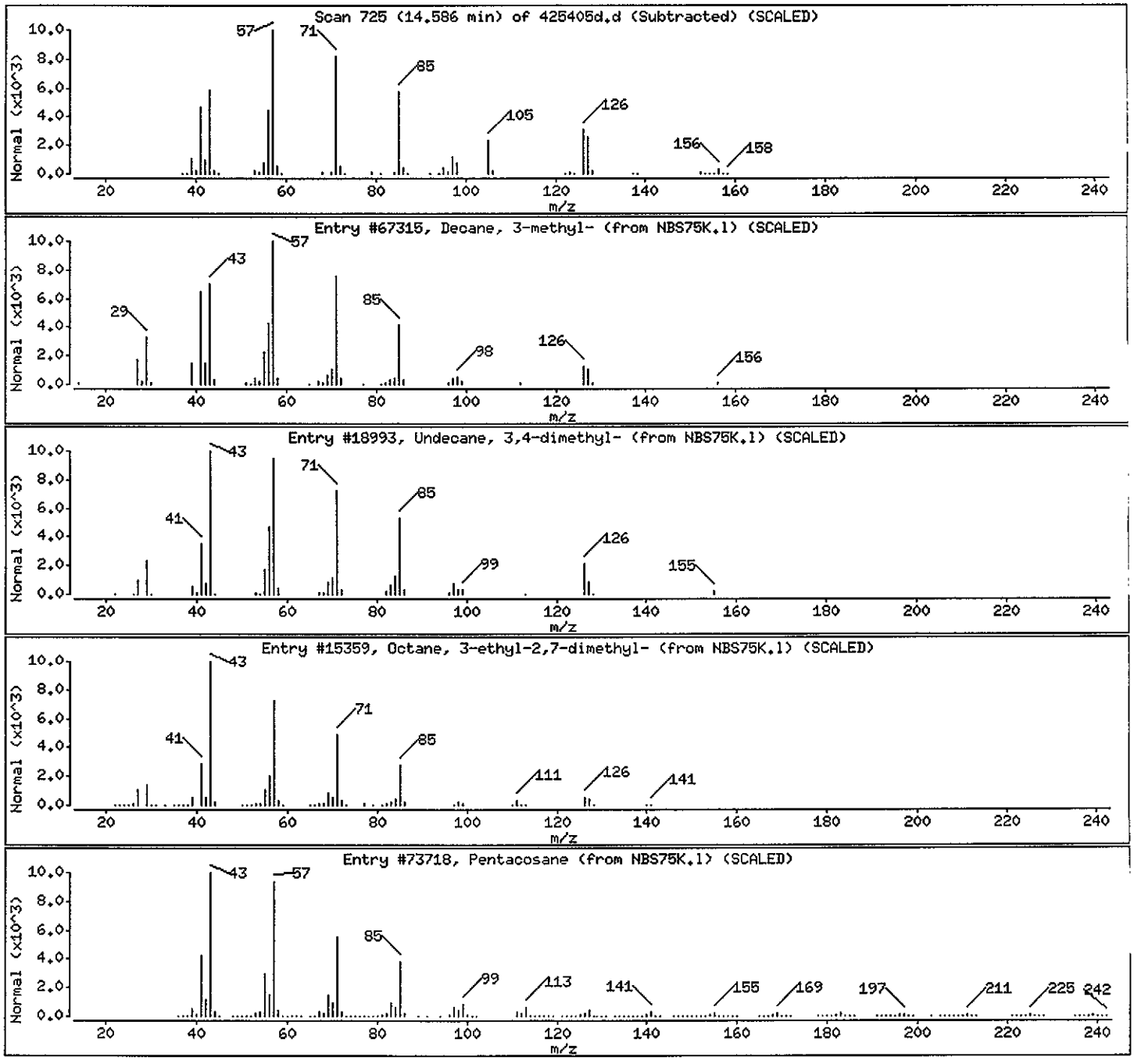
Client ID: I072400002 Instrument: W.i

Sample Info: 425405;I072400002;79113;0728R5

Purge Volume: 200.0 Operator: GMM

Column phase: DB-1 Column diameter: 0.35

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown alkane						
Decane, 3-methyl-	13151-34-3	NBS75K.l	67315	90	C11H24	156
Undecane, 3,4-dimethyl-	17312-78-6	NBS75K.l	18993	72	C13H28	184
Octane, 3-ethyl-2,7-dimethyl-	62183-55-5	NBS75K.l	15359	53	C12H26	170
Pentacosane	629-99-2	NBS75K.l	73718	50	C25H52	352



Data File: /chem/W.i/Wsvr.p/wcbito14.b/425405d.d

Date : 28-JUL-2000 11:59

Client ID: I072400002

Instrument: W.i

Sample Info: 425405;I072400002;79113;0728R5

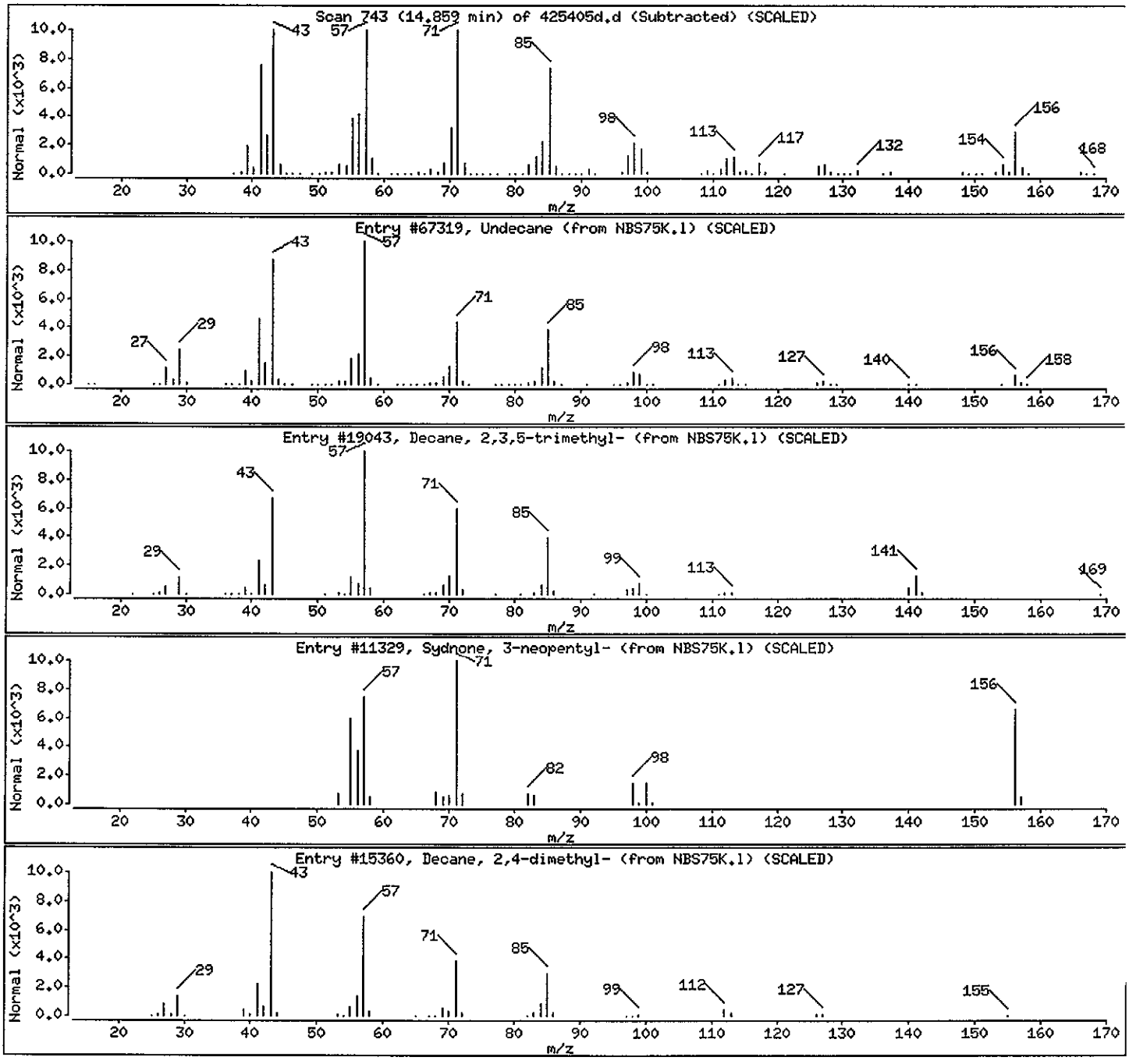
Purge Volume: 200.0

Operator: GMM

Column phase: DB-1

Column diameter: 0.35

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown alkane						
Undecane	1120-21-4	NBS75K.l	67319	70	C11H24	156
Decane, 2,3,5-trimethyl-	62238-11-3	NBS75K.l	19043	50	C13H28	184
Sydnone, 3-neopentyl-	26537-48-4	NBS75K.l	11329	43	C7H12N2O2	156
Decane, 2,4-dimethyl-	2801-84-5	NBS75K.l	15360	43	C12H26	170



Data File: /chem/W.i/Wsvr.p/wcbito14.b/425405d.d

Date : 28-JUL-2000 11:59

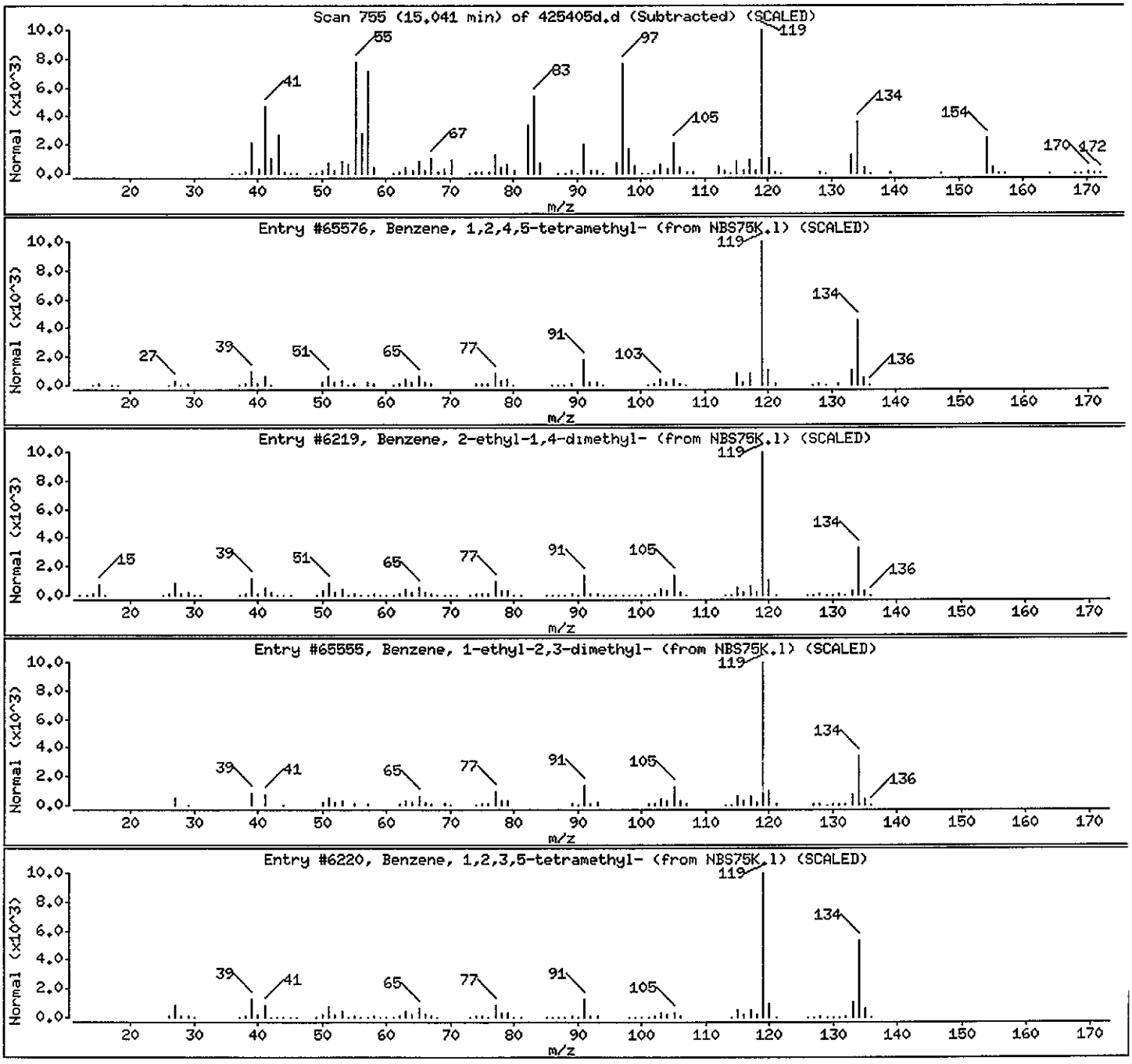
Client ID: I072400002 Instrument: W.i

Sample Info: 425405;I072400002;79113;0728R5

Purge Volume: 200.0 Operator: GMM

Column phase: DB-1 Column diameter: 0.35

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknowns						
Benzene, 1,2,4,5-tetramethyl-	95-93-2	NBS75K.l	65576	89	C10H14	134
Benzene, 2-ethyl-1,4-dimethyl-	1758-88-9	NBS75K.l	6219	86	C10H14	134
Benzene, 1-ethyl-2,3-dimethyl-	933-98-2	NBS75K.l	65555	86	C10H14	134
Benzene, 1,2,3,5-tetramethyl-	527-53-7	NBS75K.l	6220	86	C10H14	134



FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

ACCANA SAMPLE NO.

I072400002DL

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 79113

Matrix: (soil/water) AIR Lab Sample ID: 425405D1

Sample wt/vol: 200 (g/mL) ML Lab File ID: 425405D2

Level: (low/med) LOW Date Received: 07/27/00

% Moisture: not dec. _____ Date Analyzed: 07/28/00

GC Column: DB-1 ID: 0.35 (mm) Dilution Factor: 8.0

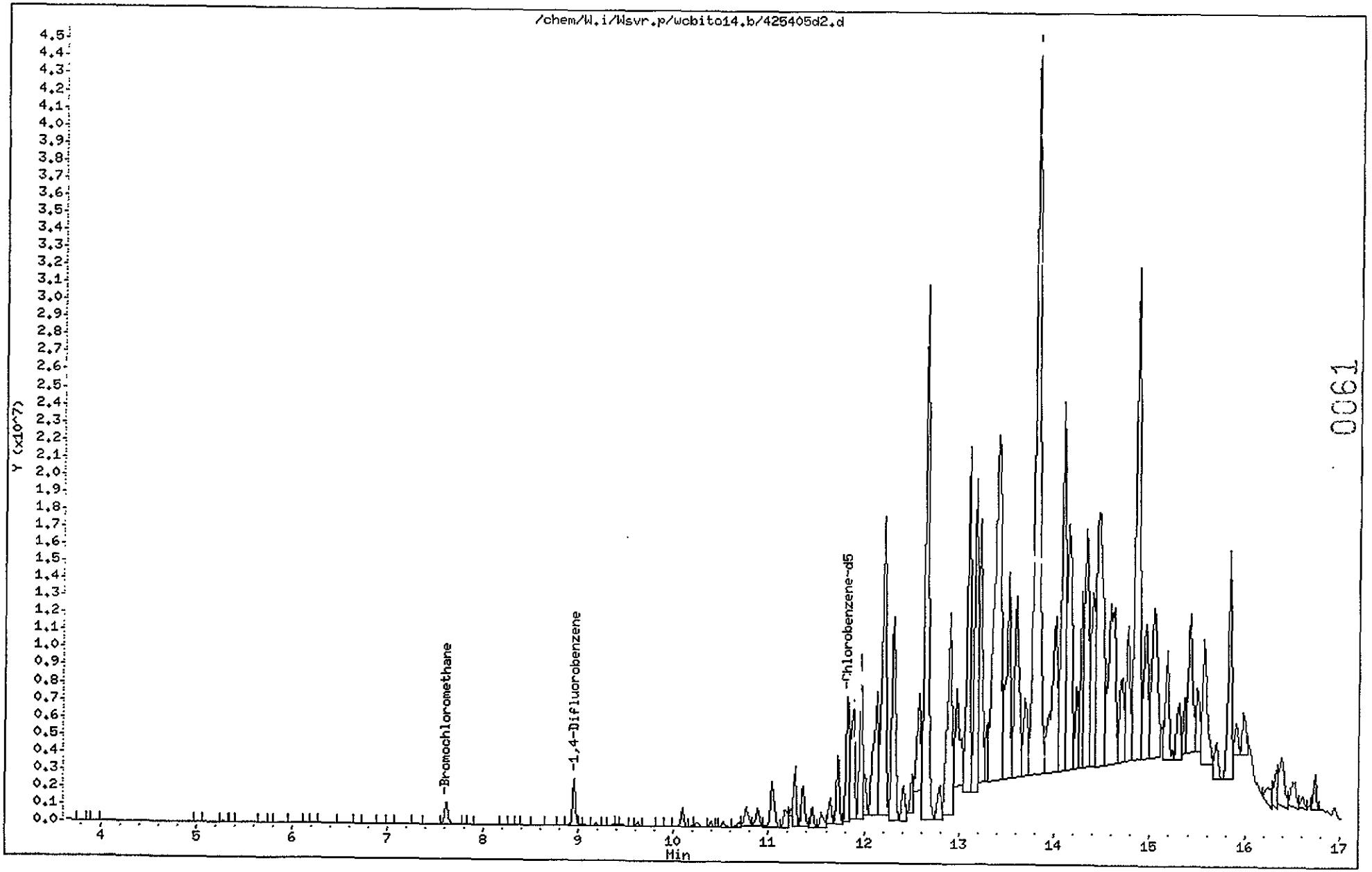
Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) PPBV	Q
74-87-3	Chloromethane	4.0	U
75-01-4	Vinyl Chloride	4.0	U
74-83-9	Bromomethane	4.0	U
75-00-3	Chloroethane	4.0	U
75-69-4	Trichlorofluoromethane	4.0	U
75-09-2	Methylene Chloride	4.0	U
75-34-3	1,1-Dichloroethane	4.0	U
67-66-3	Chloroform	4.0	U
71-55-6	1,1,1-Trichloroethane	4.0	U
56-23-5	Carbon Tetrachloride	4.0	U
71-43-2	Benzene	4.0	U
107-06-2	1,2-Dichloroethane	4.0	U
79-01-6	Trichloroethene	4.0	U
78-87-5	1,2-Dichloropropane	4.0	U
10061-01-5	cis-1,3-Dichloropropene	4.0	U
108-88-3	Toluene	4.0	U
10061-02-6	trans-1,3-Dichloropropene	4.0	U
79-00-5	1,1,2-Trichloroethane	4.0	U
127-18-4	Tetrachloroethene	4.0	U
108-90-7	Chlorobenzene	4.0	U
100-41-4	Ethylbenzene	62	D
1330-20-7	Xylene (total)	300	D
100-42-5	Styrene	4.0	U
1330-20-7	Xylene (m,p)	230	D
95-4 -6	Xylene (o)	63	D
79-34-5	1,1,2,2-Tetrachloroethane	4.0	U
541-73-1	1,3-Dichlorobenzene	4.0	U
106-46-7	1,4-Dichlorobenzene	4.0	U
95-50-1	1,2-Dichlorobenzene	4.0	U

Data File: /chem/W.i/Wsvr.p/wcbito14.b/425405d2.d
Date : 28-JUL-2000 13:21
Client ID: I072400002DL
Sample Info: 425405D1;I072400002DL;79113;0728R5
Purge Volume: 200.0
Column phase: DB-1

Instrument: W.i

Operator: GMM
Column diameter: 0.35



STL Burlington

AIR TOXICS QUANTITATION REPORT

Data file : /chem/W.i/Wsvr.p/wcbito14.b/425405d2.d
Lab Smp Id: 425405D1 Client Smp ID: I072400002DL
Inj Date : 28-JUL-2000 13:21
Operator : GMM Inst ID: W.i
Smp Info : 425405D1;I072400002DL;79113;0728R5
Misc Info : 25mL
Comment :
Method : /chem/W.i/Wsvr.p/wcbito14.b/ato14.m
Meth Date : 31-Jul-2000 20:19 cpc Quant Type: ISTD
Cal Date : 10-JUL-2000 13:37 Cal File: cb0005i2.d
Als bottle: 2
Dil Factor: 8.00000
Integrator: HP RTE Compound Sublist: ACCANA.sub
Target Version: 3.50
Processing Host: chemsvr4

Concentration Formula: Amt * DF * X* Uf/Vo) * CpndVariable

Name	Value	Description
DF	8.00000	Dilution Factor
X	200.00000	method volume factor
Uf	1.00000	ng unit correction factor
Vo	200.00000	Sample Volume purged (mL)

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	FINAL (ppbv)
2	Chloromethane	50	Compound Not Detected.					
4	Vinyl Chloride	62	Compound Not Detected.					
5	Bromomethane	94	Compound Not Detected.					
6	Chloroethane	64	Compound Not Detected.					
7	Trichlcrofluoromethane	101	Compound Not Detected.					
9	Methylene Chloride	49	Compound Not Detected.					
11	1,1-Dichloroethane	63	Compound Not Detected.					
* 13	Bromochloromethane	128	7.621	7.638	(1.000)	491414	10.0000	
14	Chloroform	83	Compound Not Detected.					
15	1,2-Dichloroethane	62	Compound Not Detected.					
16	1,1,1-Trichloroethane	97	Compound Not Detected.					
17	Benzene	78	Compound Not Detected.					
18	Carbon Tetrachloride	117	Compound Not Detected.					
* 19	1,4-Difluorobenzene	114	8.957	8.973	(1.000)	2413496	10.0000	
20	1,2-Dichloropropane	63	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	FINAL (ppbv)
	21 Trichloroethene	95	Compound Not Detected.					
	22 cis-1,3-Dichloropropene	75	Compound Not Detected.					
	23 trans-1,3-Dichloropropene	75	Compound Not Detected.					
	24 1,1,2-Trichloroethane	83	Compound Not Detected.					
	25 Toluene	92	Compound Not Detected.					
	27 Tetrachloroethene	166	Compound Not Detected.					
*	28 Chlorobenzene-d5	117	11.840	11.841	(1.000)	2623499	10.0000	
	29 Chlorobenzene	112	Compound Not Detected.					
	30 Ethylbenzene	91	12.098	12.099	(1.022)	2259062	7.68956	62
	31 Xylene (m,p)	106	12.220	12.221	(1.032)	3137549	29.1584	230
	32 Styrene	104	Compound Not Detected.					
M	33 Xylene (total)	106				3970137	37.0789	300
	34 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					
	35 Xylene (o)	106	12.553	12.539	(1.060)	832588	7.92049	63
	38 1,3-Dichlorobenzene	146	Compound Not Detected.					
	39 1,4-Dichlorobenzene	146	Compound Not Detected.					
	40 1,2-Dichlorobenzene	146	Compound Not Detected.					

STL Burlington

AIR TOXICS QUANTITATION REPORT

Data file : /chem/W.i/Wsvr.p/wcbito14.b/425405d2.d
Lab Smp Id: 425405D1 Client Smp ID: I072400002DL
Inj Date : 28-JUL-2000 13:21
Operator : GMM Inst ID: W.i
Smp Info : 425405D1;I072400002DL;79113;0728R5
Misc Info : 25mL
Comment :
Method : /chem/W.i/Wsvr.p/wcbito14.b/ato14.m
Meth Date : 31-Jul-2000 20:19 cpc Quant Type: ISTD
Cal Date : 10-JUL-2000 13:37 Cal File: cb0005i2.d
Als bottle: 2
Dil Factor: 8.00000
Integrator: HP RTE Compound Sublist: ACCANA.sub
Target Version: 3.50
Processing Host: chemsvr4

Concentration Formula: Amt * DF * X* Uf/Vo) * CpndVariable

Name	Value	Description
DF	8.00000	Dilution Factor
X	200.00000	method volume factor
Uf	1.00000	ng unit correction factor
Vo	200.00000	Sample Volume purged (mL)

Cpnd Variable Local Compound Variable

ISTD	RT	AREA	AMOUNT
* 28 Chlorobenzene-d5	11.840	18860272	10.000

	CONCENTRATIONS			QUANT		
RT	AREA	ON-COL(ppbv)	FINAL(ppbv)	QUAL	LIBRARY	LIB ENTRY	CPND #
Unknown alkane				CAS #:			
12.645	87485296	46.3860190	370	0		0	28
Unknown alkane				CAS #:			
13.100	50252209	26.6444768	210	0		0	28

		CONCENTRATIONS			QUANT		
RT	AREA	ON-COL(ppbv)	FINAL(ppbv)	QUAL	LIBRARY	LIB ENTRY	CPND #
Unknown alkylcyclohexane				CAS #:			
13.176	53126850	28.1686544	220	0		0	28
Unknown alkane				CAS #:			
13.403	1.127e+08	59.7458647	480	0		0	28
Unknown alkane				CAS #:			
14.086	65065944	34.4989416	280	0		0	28
Unknown C3-alkylbenzene				CAS #:			
14.147	46756911	24.7912168	200	0		0	28
Unknown alkylcyclohexane				CAS #:			
14.329	54044698	28.6553112	230	0		0	28
Unknowns				CAS #:			
14.450	77501768	41.0926026	330	0		0	28
Unknown alkane				CAS #:			
14.587	49484032	26.2371777	210	0		0	28
Unknown alkane				CAS #:			
14.860	81123381	43.0128361	340	0		0	28

Data File: /chem/W.i/Wsvr.p/wcbito14.b/425405d2.d

Date : 28-JUL-200) 13:21

Client ID: I072400002DL

Instrument: W.i

Sample Info: 425405D1;I072400002DL;79113;0728R5

Purge Volume: 200.0

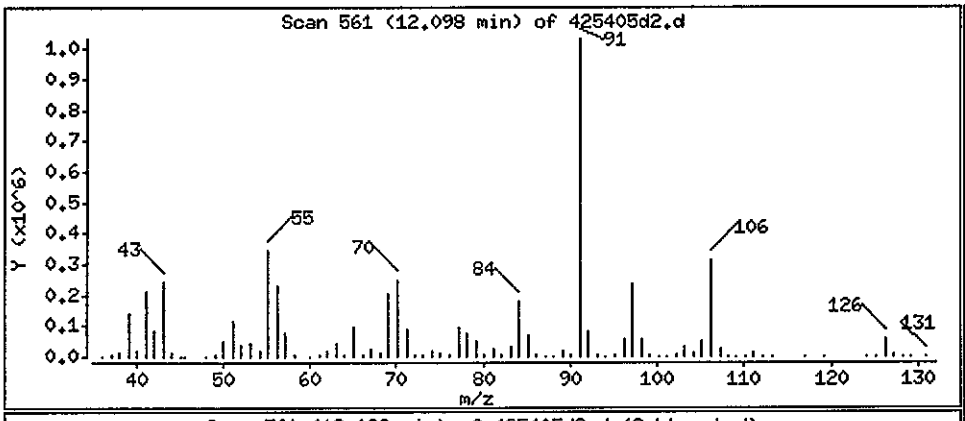
Operator: GMM

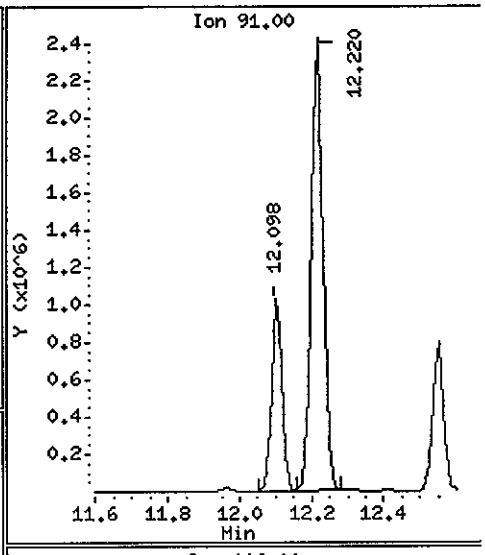
Column phase: DB-1

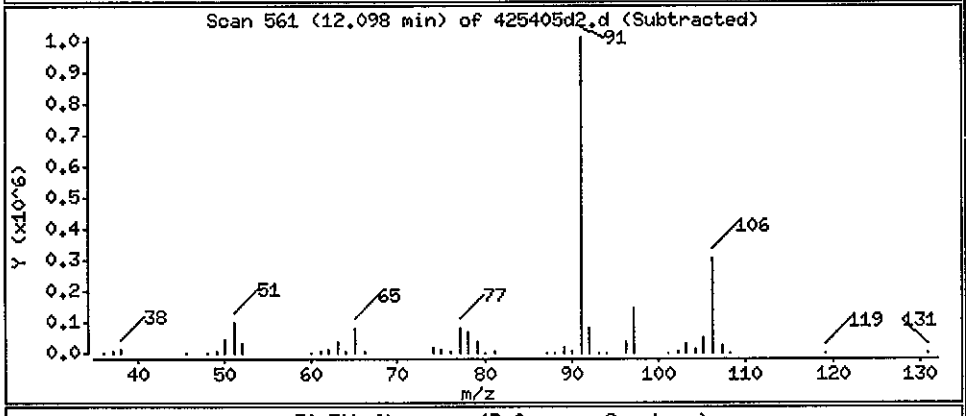
Column diameter: 0.35

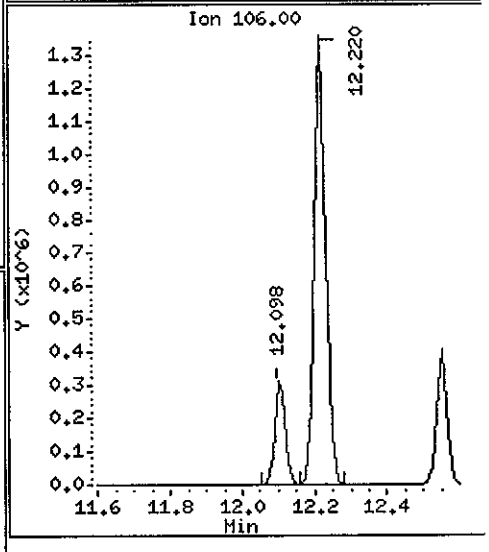
30 Ethylbenzene

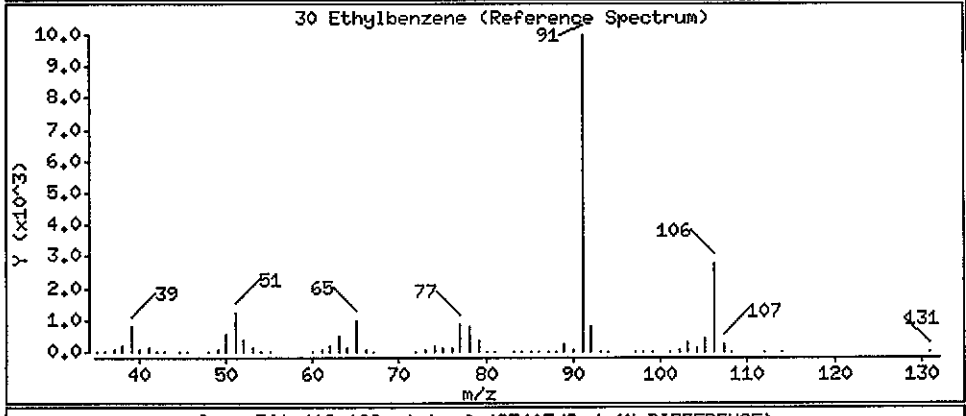
Concentration: 62 ppbv

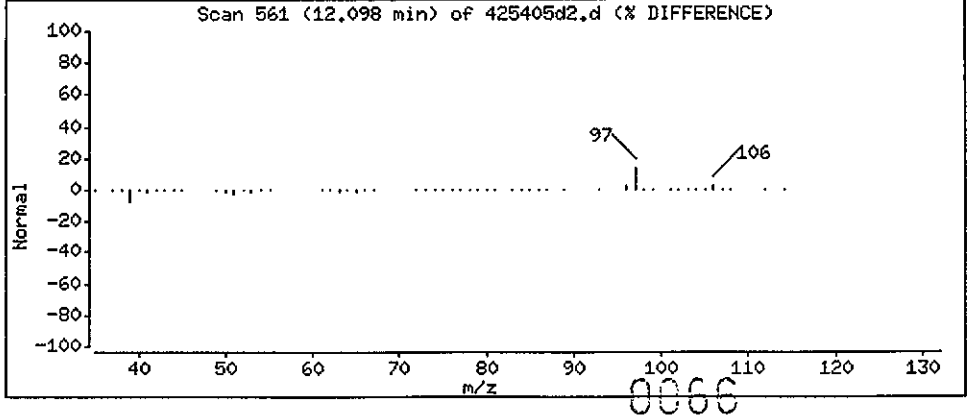












Data File: /chem/W.i/Wsvr.p/wcbito14.b/425405d2.d

Date : 28-JUL-2000 13:21

Client ID: I072400002DL

Instrument: W.i

Sample Info: 425405D1;I072400002DL;79113;0728R5

Purge Volume: 200.0

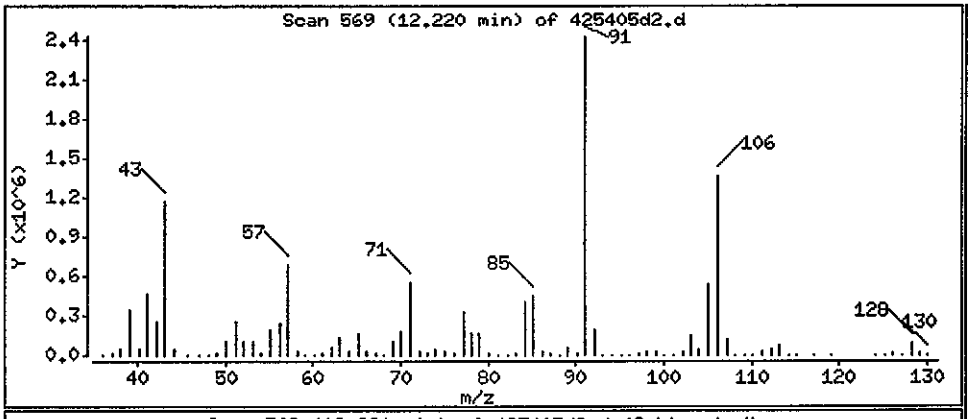
Operator: GMM

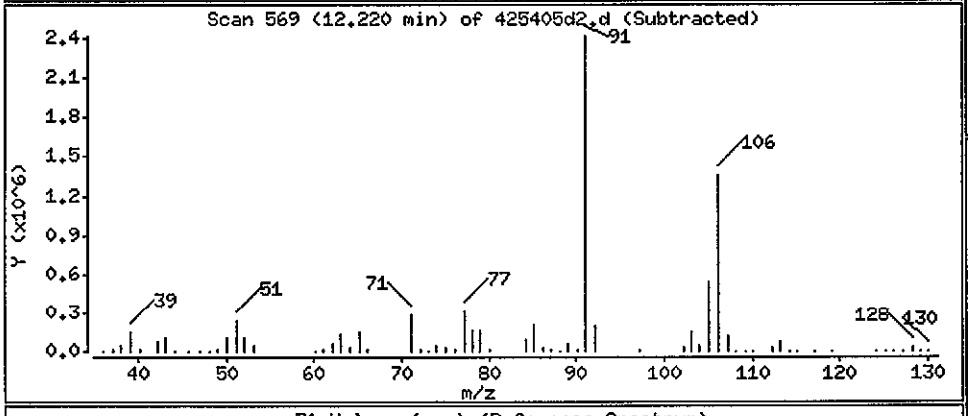
Column phase: DB-1

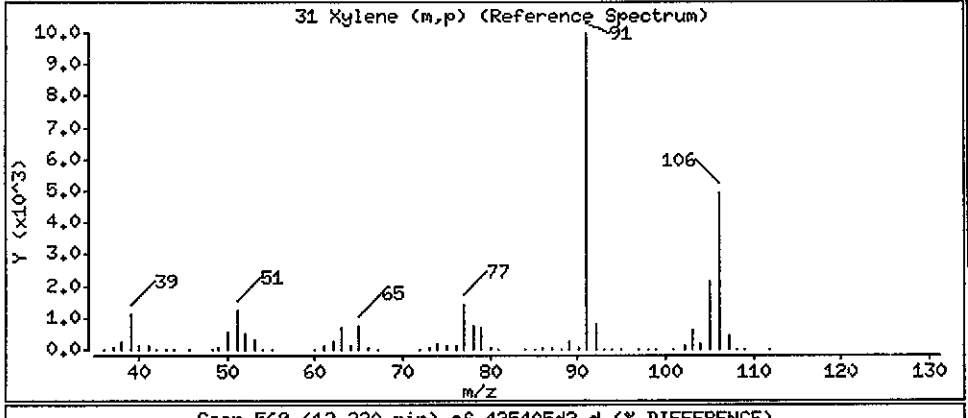
Column diameter: 0.35

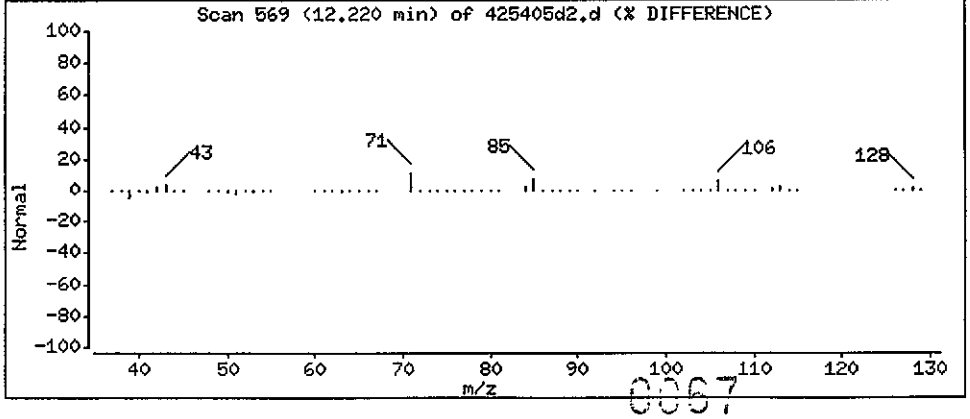
31 Xylene (m,p)

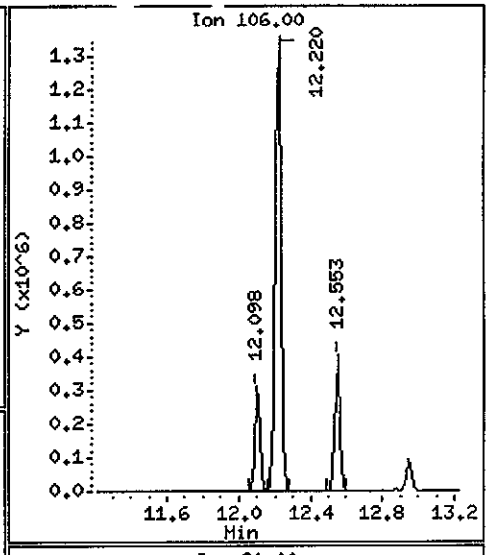
Concentration: 230 ppbv

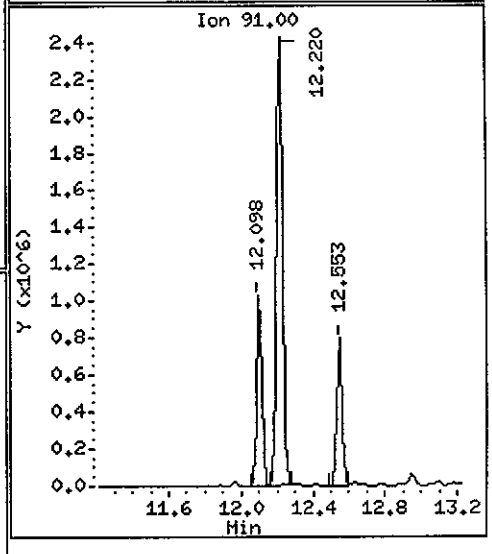












Data File: /chem/W.i/Wsvr.p/wcbito14.b/425405d2.d

Date : 28-JUL-2000 13:21

Client ID: I072400002DL

Instrument: W.i

Sample Info: 425405D1;I072400002DL;79113;0728R5

Purge Volume: 200.0

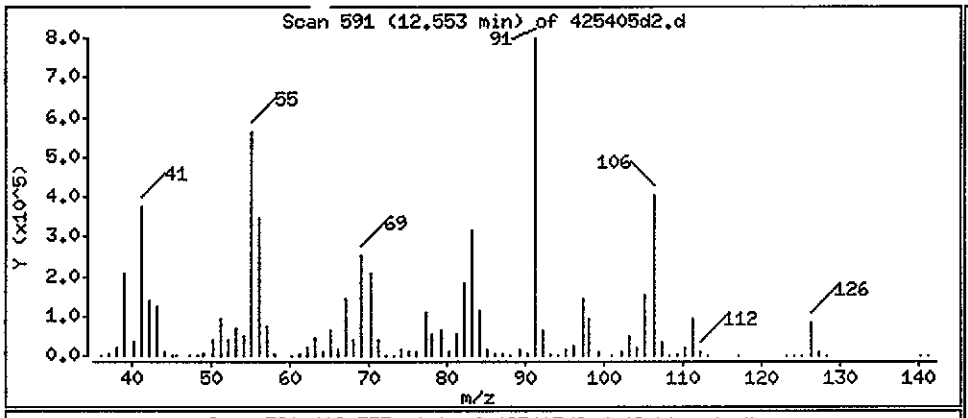
Operator: GMM

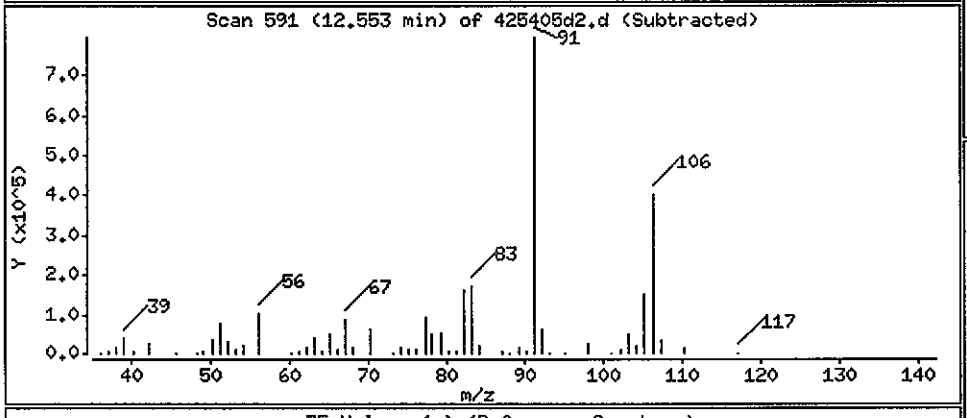
Column phase: DB-1

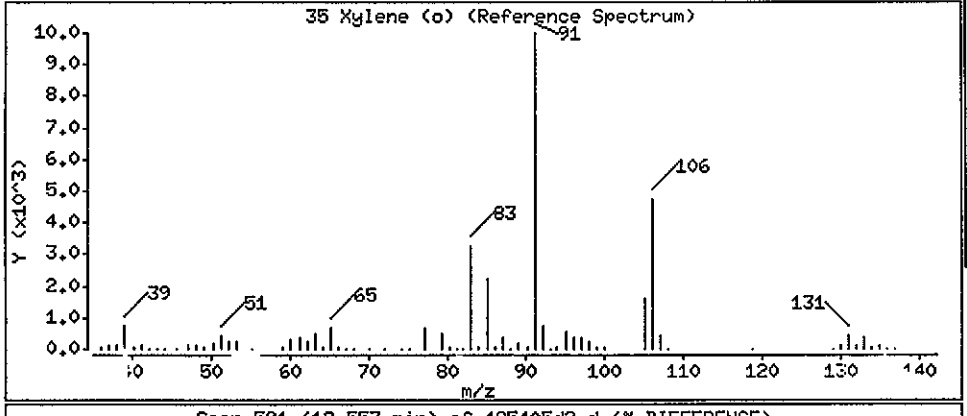
Column diameter: 0.35

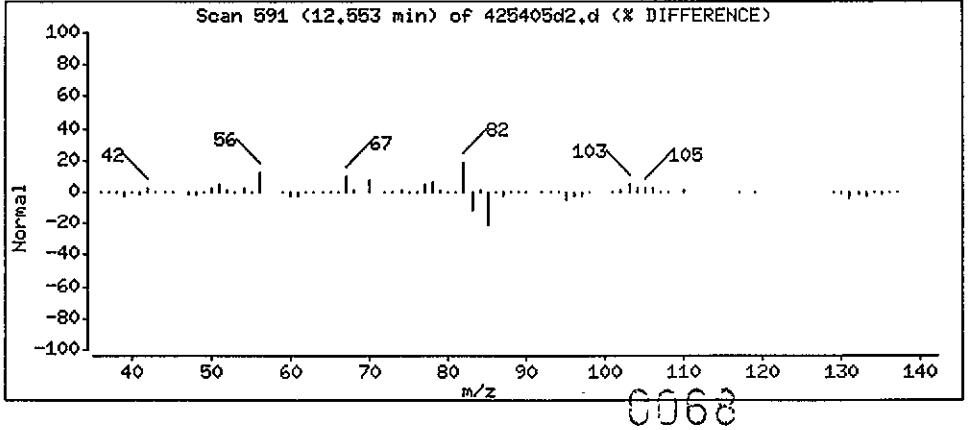
35 Xylene (o)

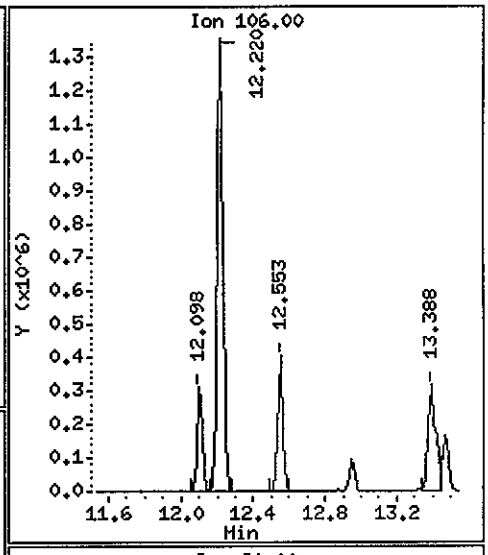
Concentration: 63 ppbv

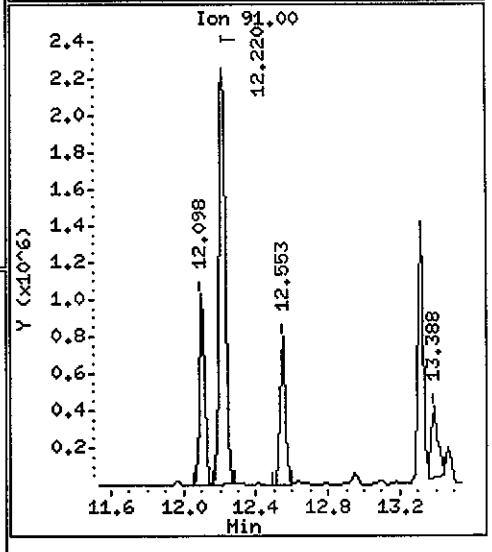












Data File: /chem/W.i/Wsvr.p/wcbito14.b/425405d2.d

Date : 28-JUL-2000 13:21

Client ID: I072400002DL

Instrument: W.i

Sample Info: 425405D1;I072400002DL;79113;0728R5

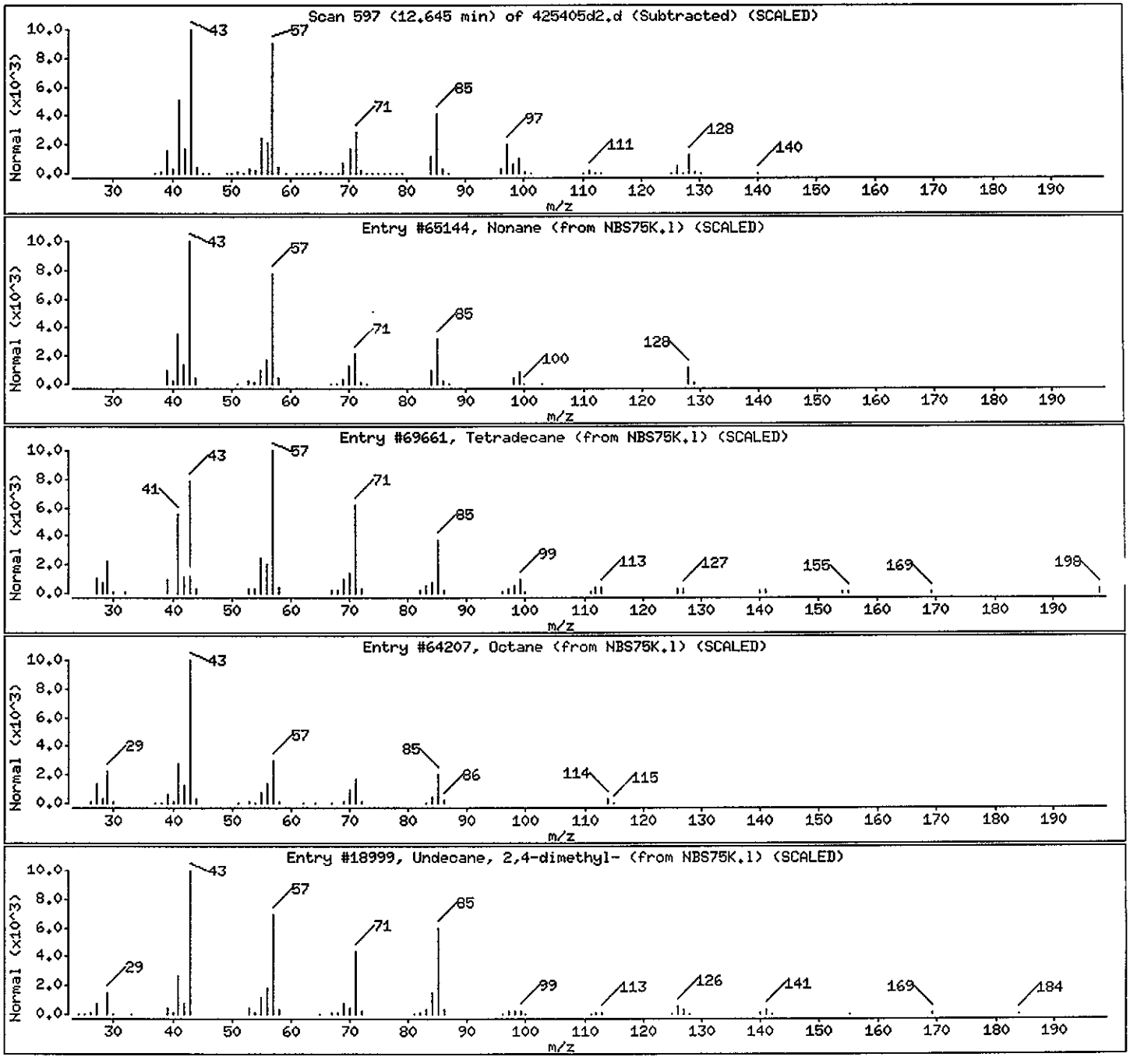
Purge Volume: 200.0

Operator: GMM

Column phase: DB-1

Column diameter: 0.35

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown alkane						
Nonane	111-84-2	NBS75K.l	65144	96	C9H20	128
Tetradecane	629-59-4	NBS75K.l	69661	50	C14H30	198
Octane	111-65-9	NBS75K.l	64207	47	C8H18	114
Undecane, 2,4-dimethyl-	17312-80-0	NBS75K.l	18999	43	C13H28	184



Data File: /chem/W.i/Wsvr.p/wcbito14.b/425405d2.d

Date : 28-JUL-2000 13:21

Client ID: I072400002DL

Instrument: W.i

Sample Info: 425405D1;I072400002DL;79113;0728R5

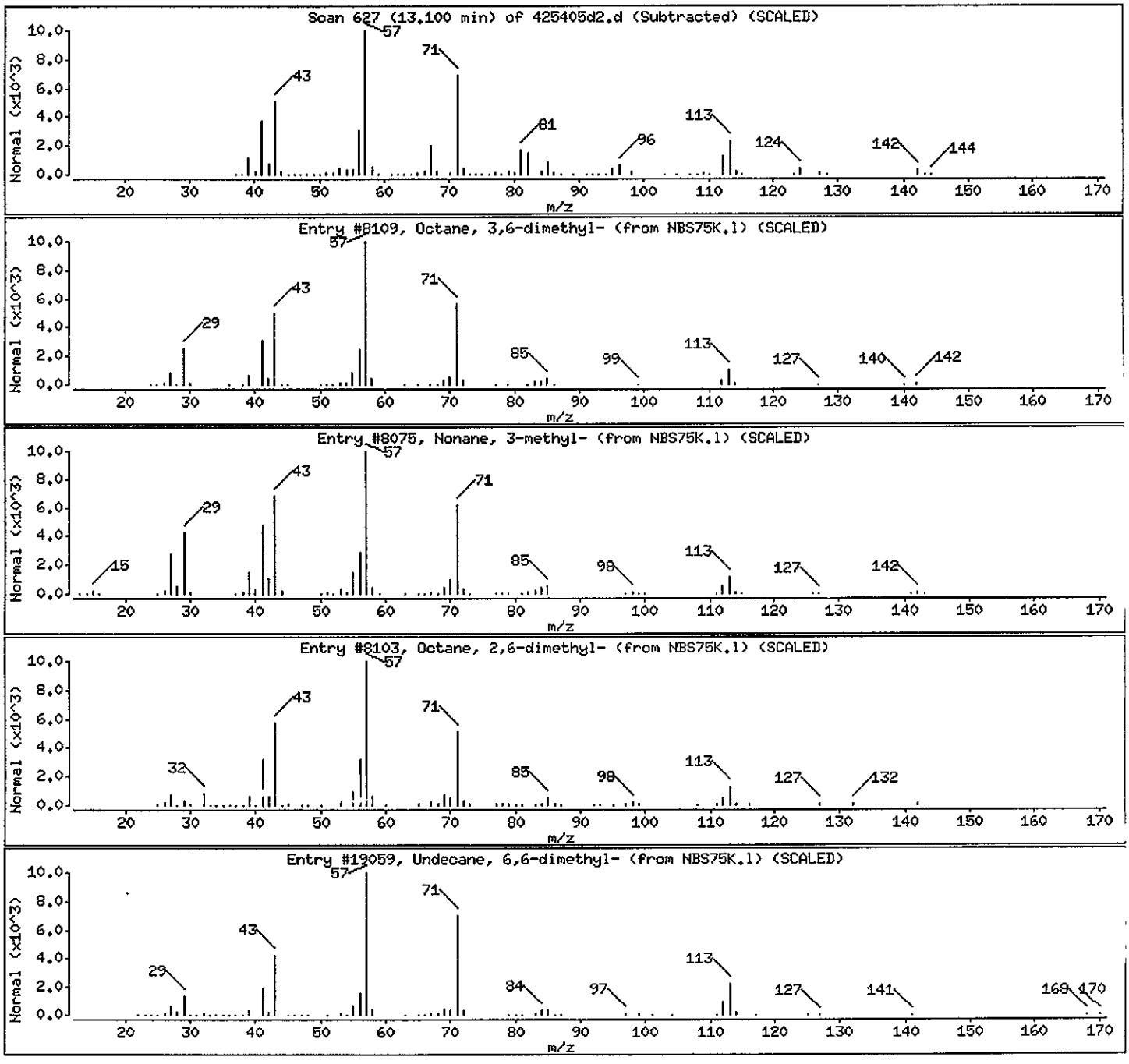
Purge Volume: 200.0

Operator: GMM

Column phase: DB-1

Column diameter: 0.35

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown alkane						
Octane, 3,6-dimethyl-	15869-94-0	NBS75K.l	8109	76	C10H22	142
Nonane, 3-methyl-	5911-04-6	NBS75K.l	8075	68	C10H22	142
Octane, 2,6-dimethyl-	2051-30-1	NBS75K.l	8103	59	C10H22	142
Undecane, 6,6-dimethyl-	17312-76-4	NBS75K.l	19059	53	C13H28	184



Data File: /chem/W.i/Wsvr.p/wcbito14.b/425405d2.d

Date : 28-JUL-2000 13:21

Client ID: I072400002DL

Instrument: W.i

Sample Info: 425405D1;I072400002DL;79113;0728R5

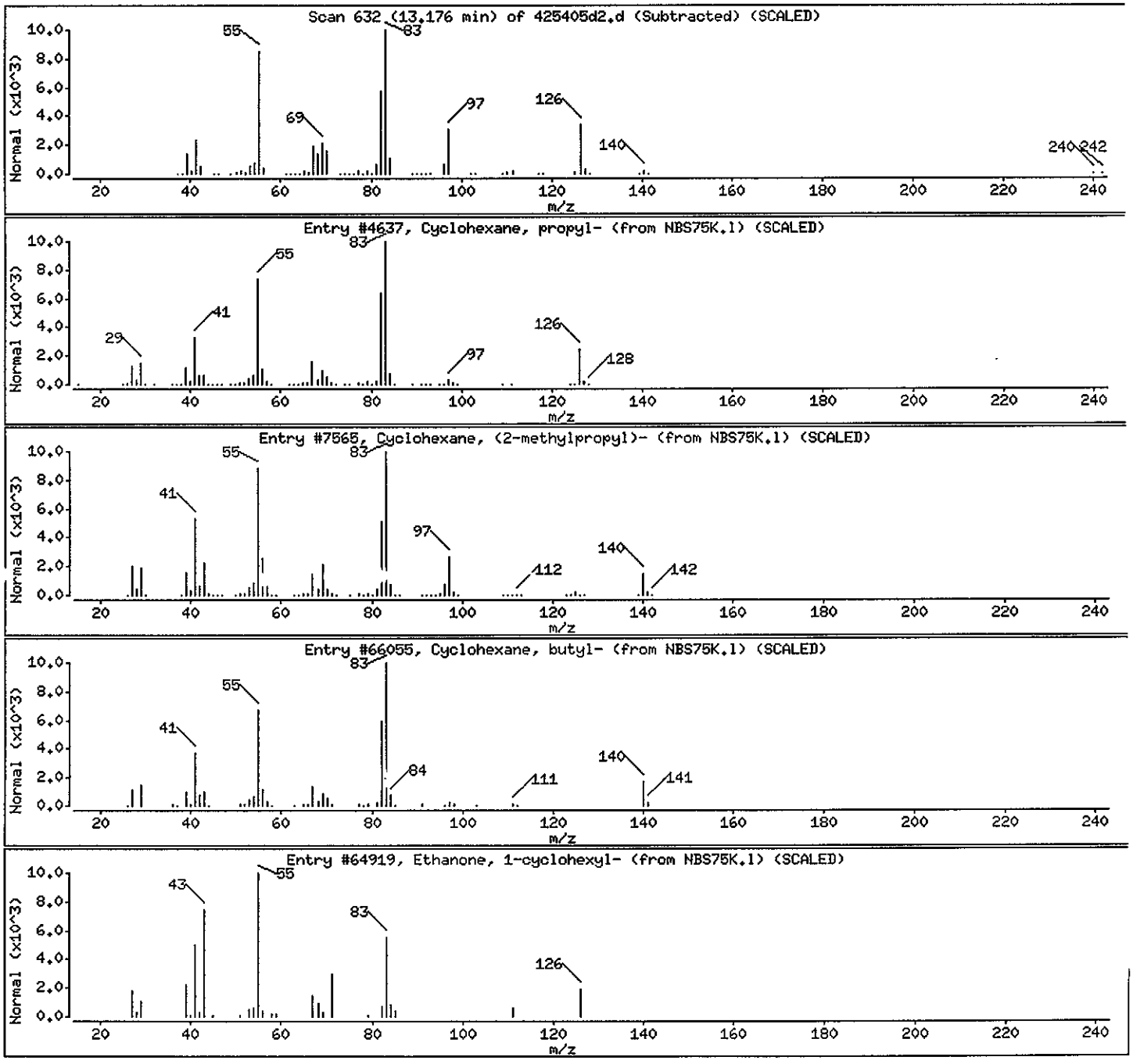
Purge Volume: 200.0

Operator: GHM

Column phase: DB-1

Column diameter: 0.35

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown alkylcyclohexane						
Cyclohexane, propyl-	1678-92-8	NBS75K.l	4637	80	C9H18	126
Cyclohexane, (2-methylpropyl)-	1678-98-4	NBS75K.l	7565	64	C10H20	140
Cyclohexane, butyl-	1678-93-9	NBS75K.l	66055	59	C10H20	140
Ethanone, 1-cyclohexyl-	823-76-7	NBS75K.l	64919	53	C8H140	126



Data File: /chem/W.i/Wsvr.p/wcbito14.b/425405d2.d

Date : 28-JUL-2000 13:

Client ID: I072400002DL

Instrument: W.i

Sample Info: 425405D1;I072400002DL;79113;0728R5

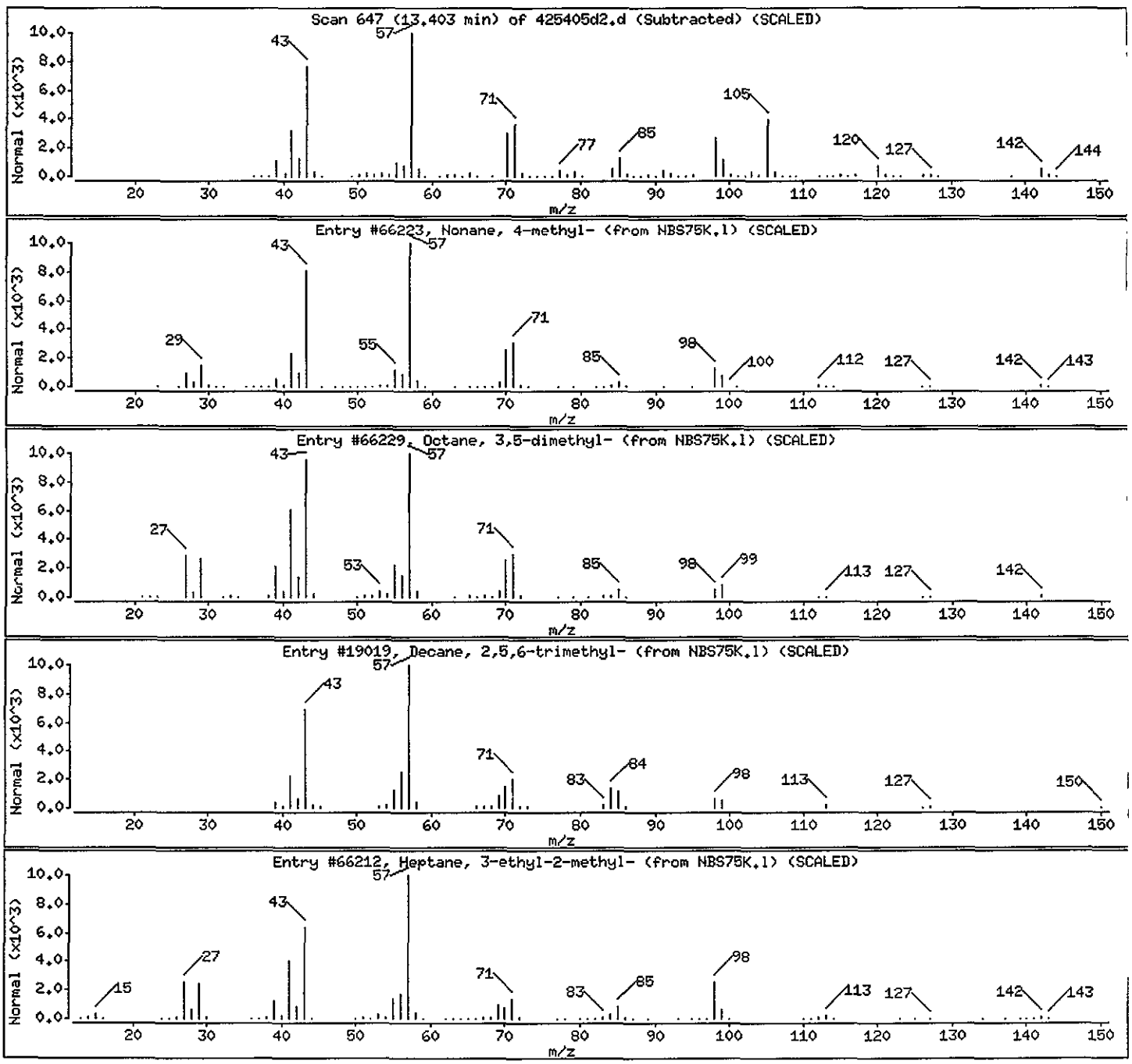
Purge Volume: 200.0

Operator: GMH

Column phase: DB-1

Column diameter: 0.35

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown alkane						
Nonane, 4-methyl-	17301-94-9	NBS75K.l	66223	81	C10H22	142
Octane, 3,5-dimethyl-	15869-93-9	NBS75K.l	66229	53	C10H22	142
Decane, 2,5,6-trimethyl-	62108-23-0	NBS75K.l	19019	47	C13H28	184
Heptane, 3-ethyl-2-methyl-	14676-29-0	NBS75K.l	66212	47	C10H22	142



Data File: /chem/W.i/Wsvr.p/wcbito14.b/425405d2.d

Date : 28-JUL-2000 13:21

Client ID: I072400002DL

Instrument: W.i

Sample Info: 425405D1;I072400002DL;79113;0728R5

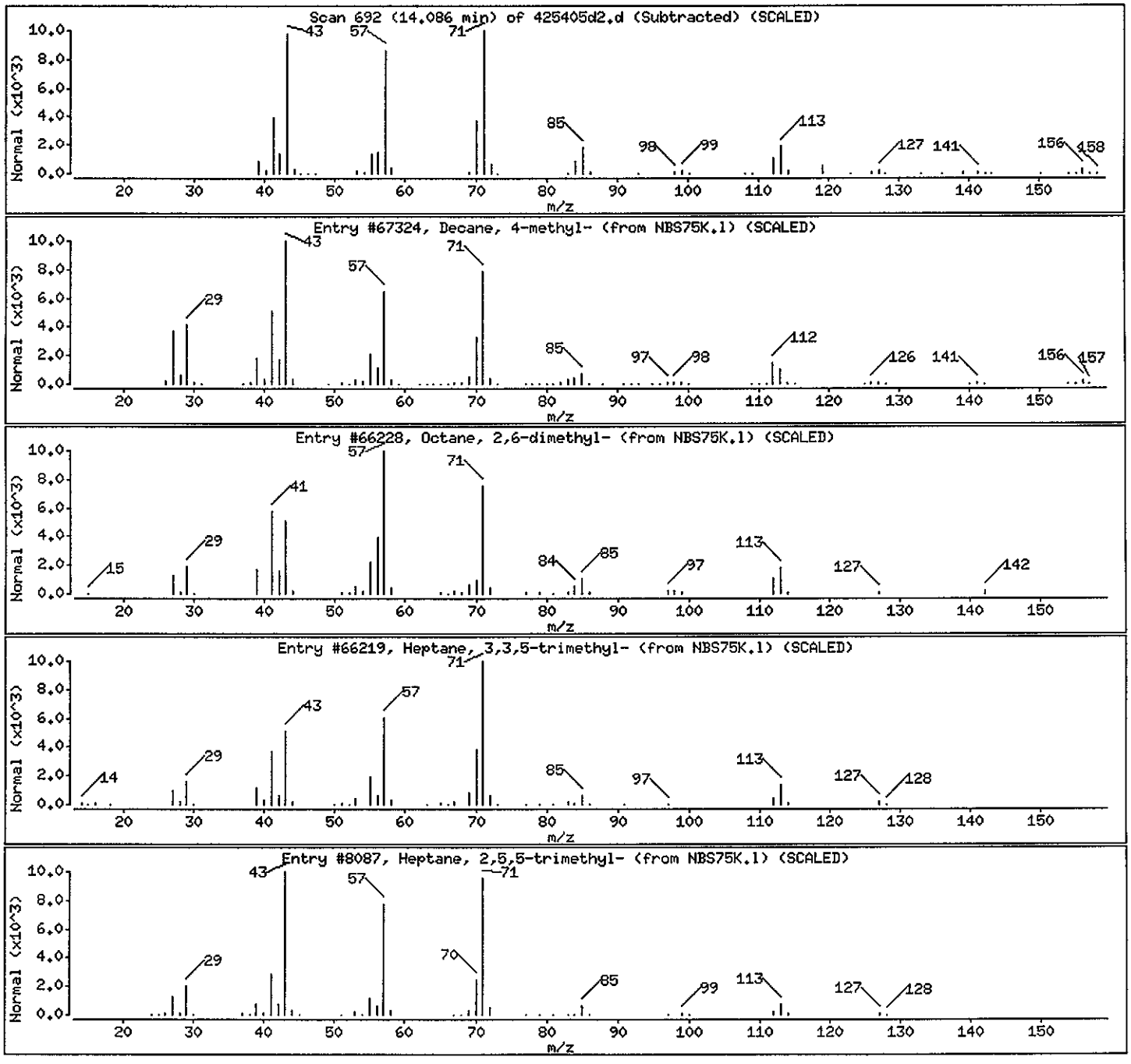
Purge Volume: 200.0

Operator: GMM

Column phase: DB-1

Column diameter: 0.35

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown alkane						
Decane, 4-methyl-	2847-72-5	NBS75K.l	67324	90	C11H24	156
Octane, 2,6-dimethyl-	2051-30-1	NBS75K.l	66228	86	C10H22	142
Heptane, 3,3,5-trimethyl-	7154-80-5	NBS75K.l	66219	72	C10H22	142
Heptane, 2,5,5-trimethyl-	1189-99-7	NBS75K.l	8087	72	C10H22	142



Data File: /chem/W.i/Wsvr.p/wcbito14.b/425405d2.d

Date : 28-JUL-2000 13:21

Client ID: I072400002DL

Instrument: W.i

Sample Info: 425405D1;I072400002DL;79113;0728R5

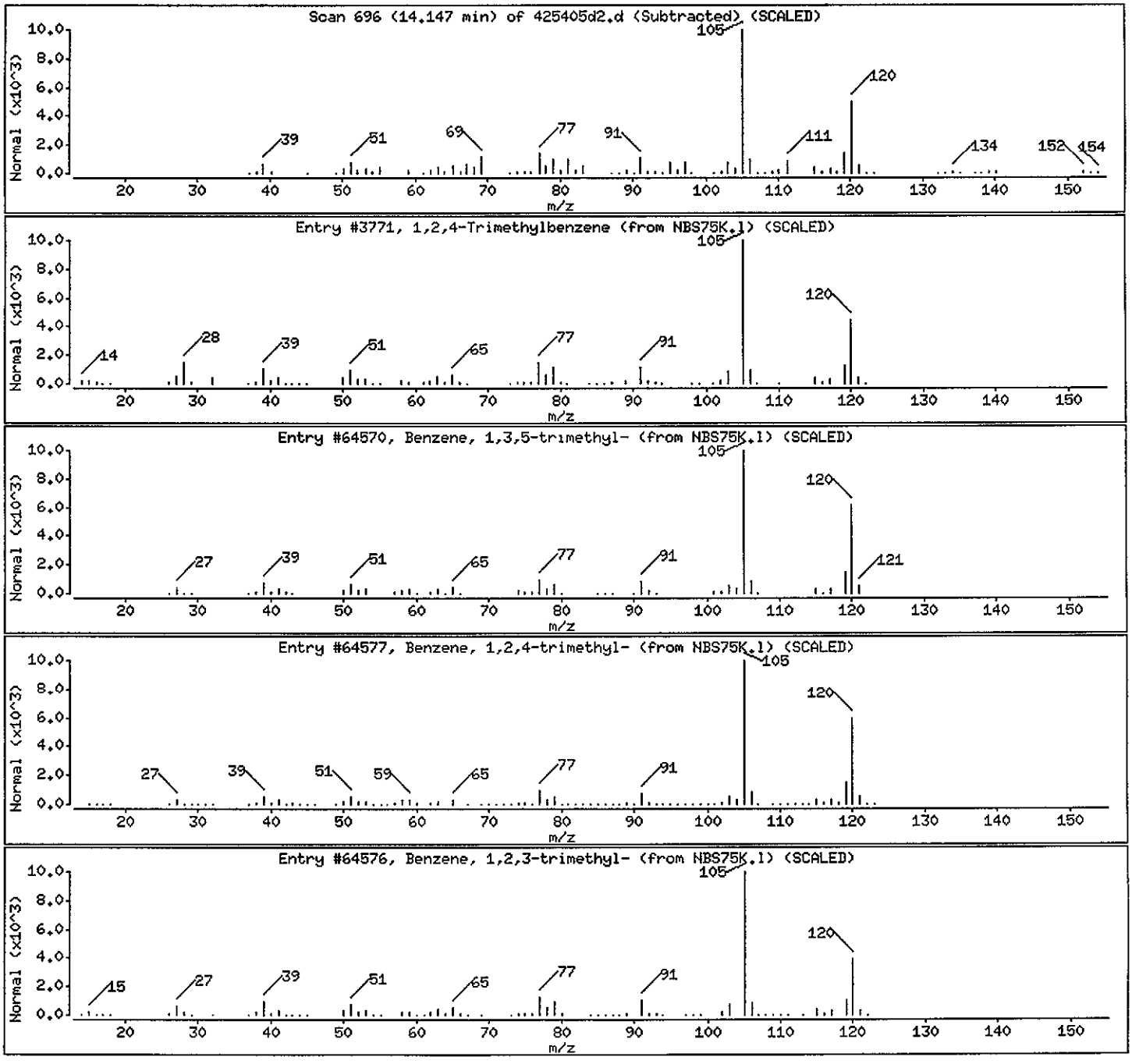
Purge Volume: 200.0

Operator: GMM

Column phase: DB-1

Column diameter: 0.35

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown C3-alkylbenzene						
1,2,4-Trimethylbenzene	95-36-3	NBS75K.l	3771	95	C9H12	120
Benzene, 1,3,5-trimethyl-	108-67-8	NBS75K.l	64570	94	C9H12	120
Benzene, 1,2,4-trimethyl-	95-63-6	NBS75K.l	64577	94	C9H12	120
Benzene, 1,2,3-trimethyl-	526-73-8	NBS75K.l	64576	94	C9H12	120



Data File: /chem/W.i/Wsvr.p/wcbito14.b/425405d2.d

Date : 28-JUL-2000 13:21

Client ID: I072400002DL

Instrument: W.i

Sample Info: 425405D1;I072400002DL;79113;0728R5

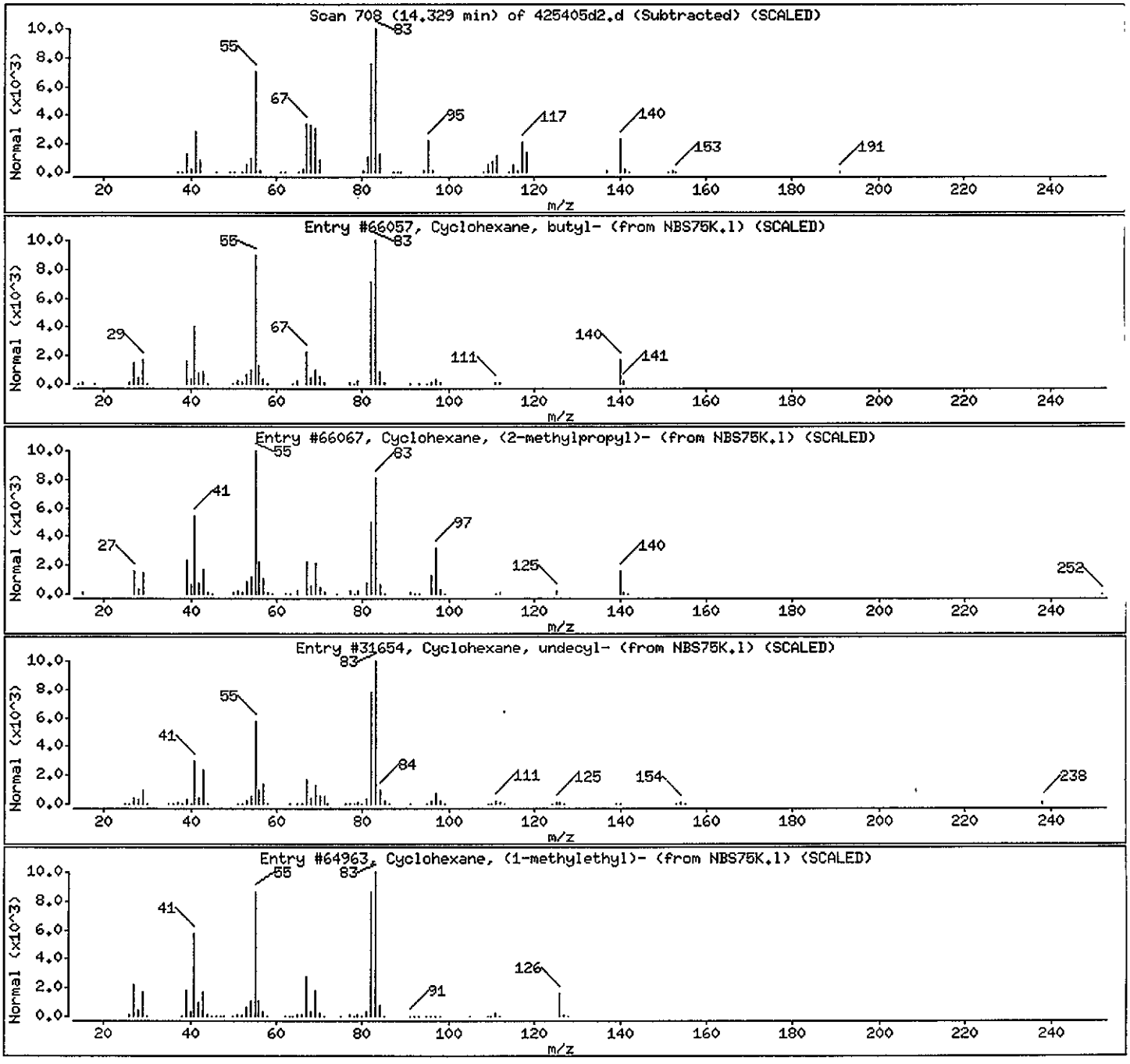
Purge Volume: 200.0

Operator: GMM

Column phase: DB-1

Column diameter: 0.35

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown alkylcyclohexane						
Cyclohexane, butyl-	1678-93-9	NBS75K.l	66057	64	C10H20	140
Cyclohexane, (2-methylpropyl)-	1678-98-4	NBS75K.l	66067	53	C10H20	140
Cyclohexane, undecyl-	54105-66-7	NBS75K.l	31654	50	C17H34	238
Cyclohexane, (1-methylethyl)-	696-29-7	NBS75K.l	64963	50	C9H18	126



Data File: /chem/W.i/Wsvr.p/wcbito14.b/425405d2.d

Date : 28-JUL-2000 13:21

Client ID: I072400002DL

Instrument: W.i

Sample Info: 425405D1;I072400002DL;79113;0728R5

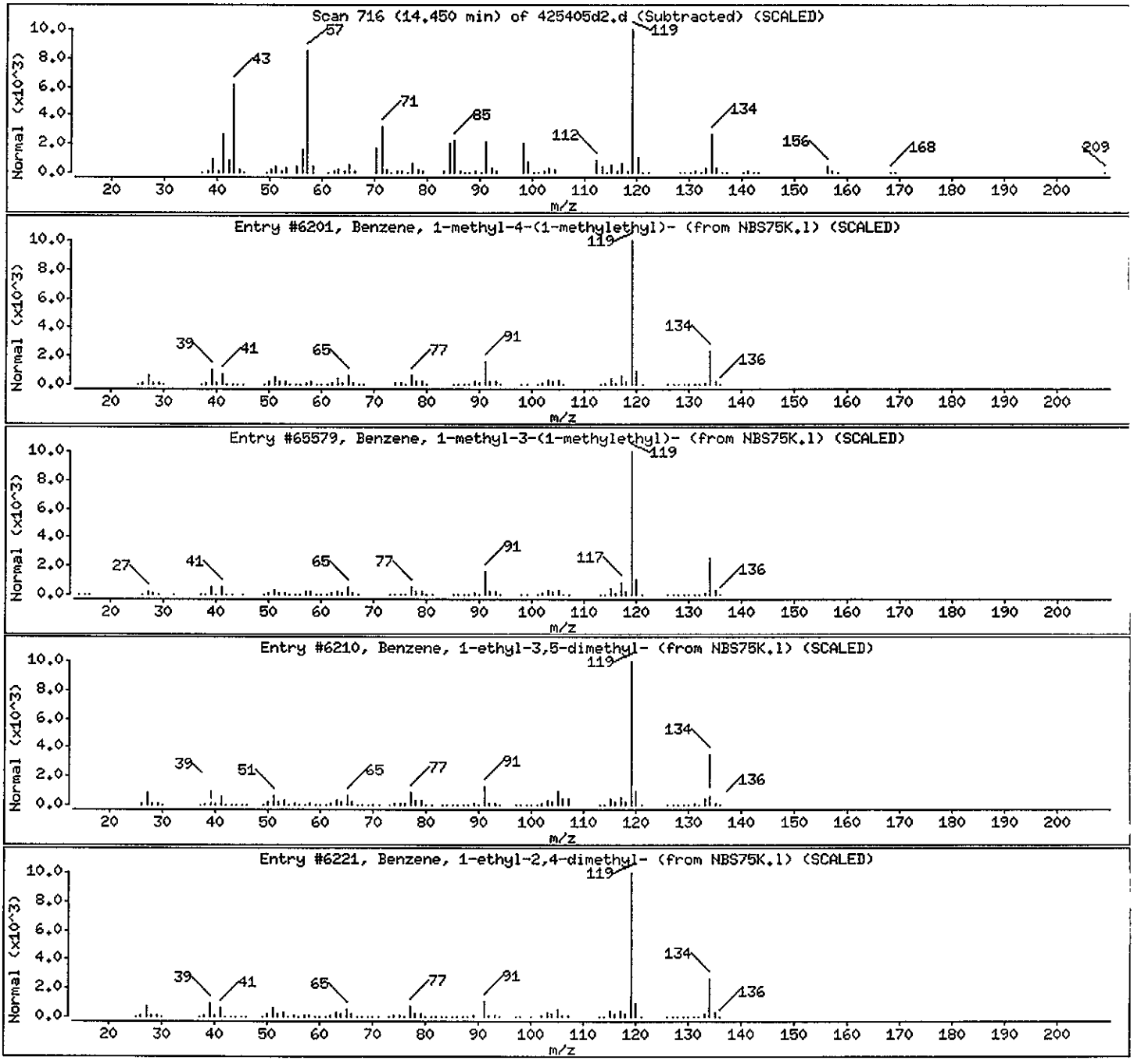
Purge Volume: 200.0

Operator: GMM

Column phase: DB-1

Column diameter: 0.35

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknowns						
Benzene, 1-methyl-4-(1-methylethyl)-	99-87-6	NBS75K.l	6201	89	C10H14	134
Benzene, 1-methyl-3-(1-methylethyl)-	535-77-3	NBS75K.l	65579	50	C10H14	134
Benzene, 1-ethyl-3,5-dimethyl-	934-74-7	NBS75K.l	6210	50	C10H14	134
Benzene, 1-ethyl-2,4-dimethyl-	874-41-9	NBS75K.l	6221	50	C10H14	134



Data File: /chem/W.i/Wsvr.p/wcbito14.b/425405d2.d

Date : 28-JUL-2000 13:21

Client ID: I072400002DL

Instrument: W.i

Sample Info: 425405D1;I072400002DL;79113;0728R5

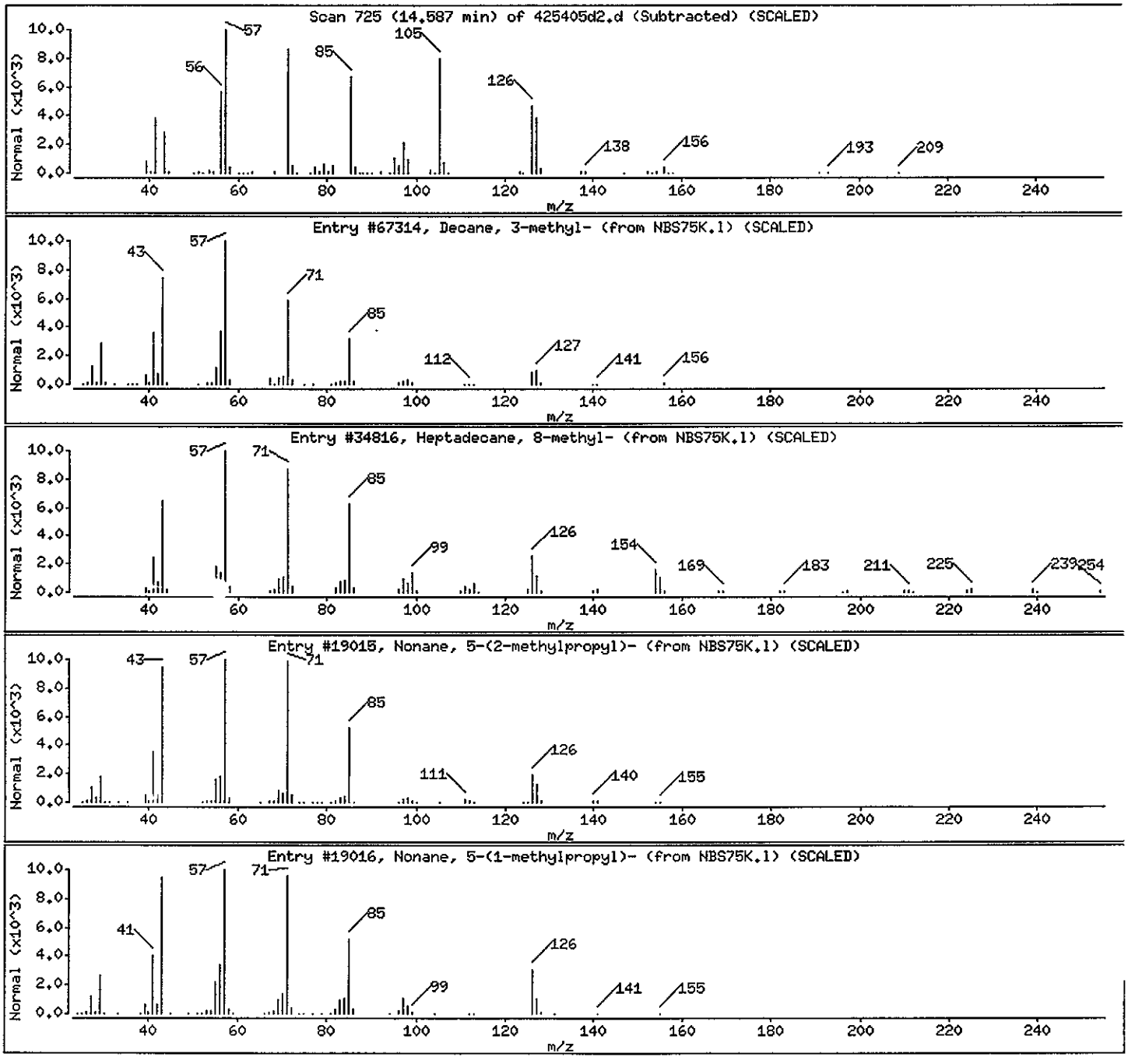
Purge Volume: 200.0

Operator: GMM

Column phase: DB-1

Column diameter: 0.35

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown alkane						
Decane, 3-methyl-	13151-34-3	NBS75K.l	67314	76	C11H24	156
Heptadecane, 8-methyl-	13287-23-5	NBS75K.l	34816	43	C18H38	254
Nonane, 5-(2-methylpropyl)-	62185-53-9	NBS75K.l	19015	40	C13H28	184
Nonane, 5-(1-methylpropyl)-	62185-54-0	NBS75K.l	19016	40	C13H28	184



Data File: /chem/W.i/Wsvr.p/wcbito14.b/425405d2.d

Date : 28-JUL-2000 13:21

Client ID: I072400002DL

Instrument: W.i

Sample Info: 425405D1;I072400002DL;79113;0728R5

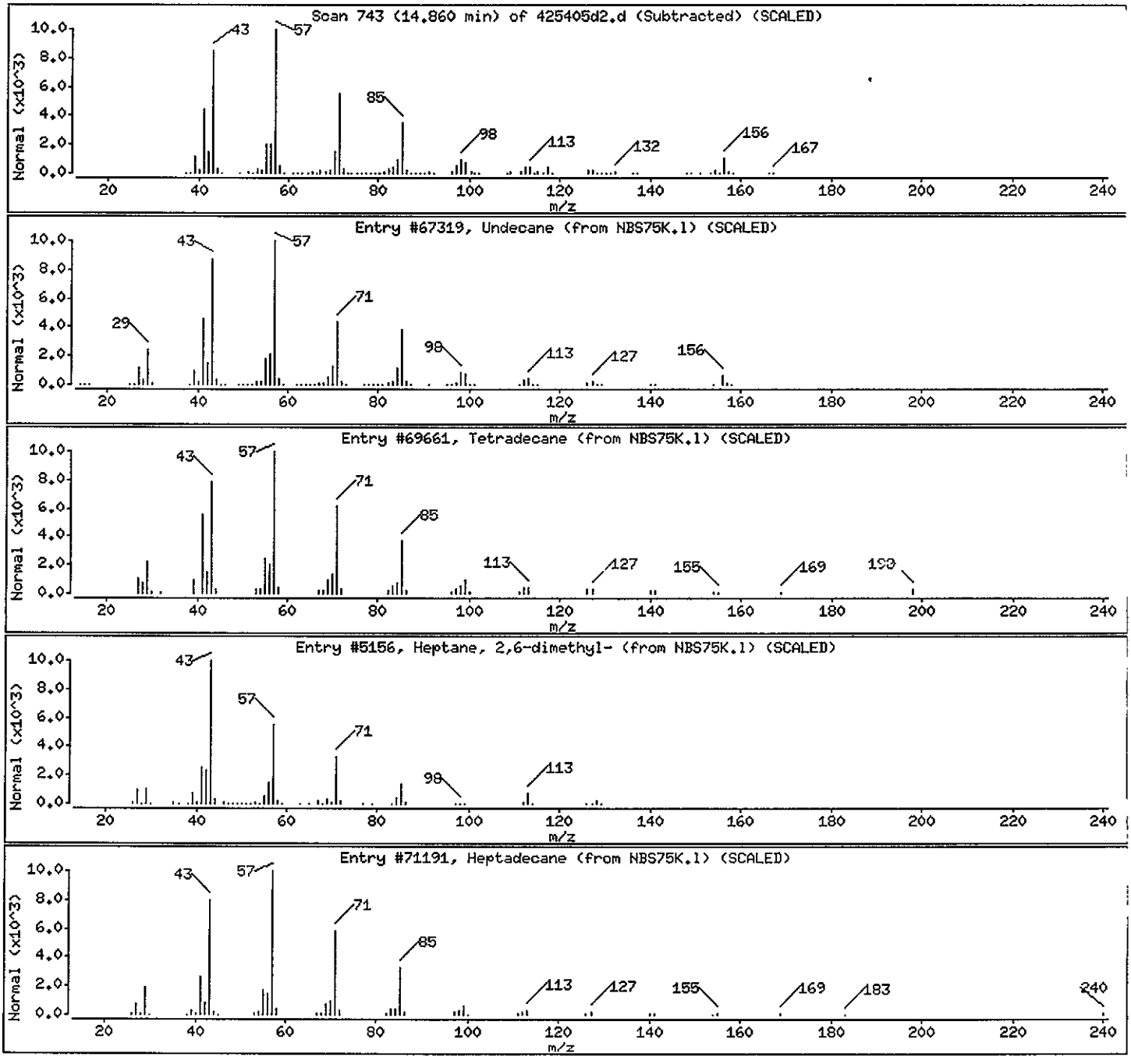
Purge Volume: 200.0

Operator: GHM

Column phase: DB-1

Column diameter: 0.35

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown alkane						
Undecane	1120-21-4	NBS75K.l	67319	94	C11H24	156
Tetradecane	629-59-4	NBS75K.l	69661	86	C14H30	198
Heptane, 2,6-dimethyl-	1072-05-5	NBS75K.l	5156	72	C9H20	128
Heptadecane	629-78-7	NBS75K.l	71191	72	C17H36	240



METHOD TO-14A
VOLATILE ORGANIC ANALYSIS

STANDARDS

6A

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 79113

Instrument ID: W Calibration Date(s): 07/10/00 07/10/00

Heated Purge: (Y/N) N Calibration Time(s): 1021 1337

GC Column: DB-1 ID: 0.35 (mm)

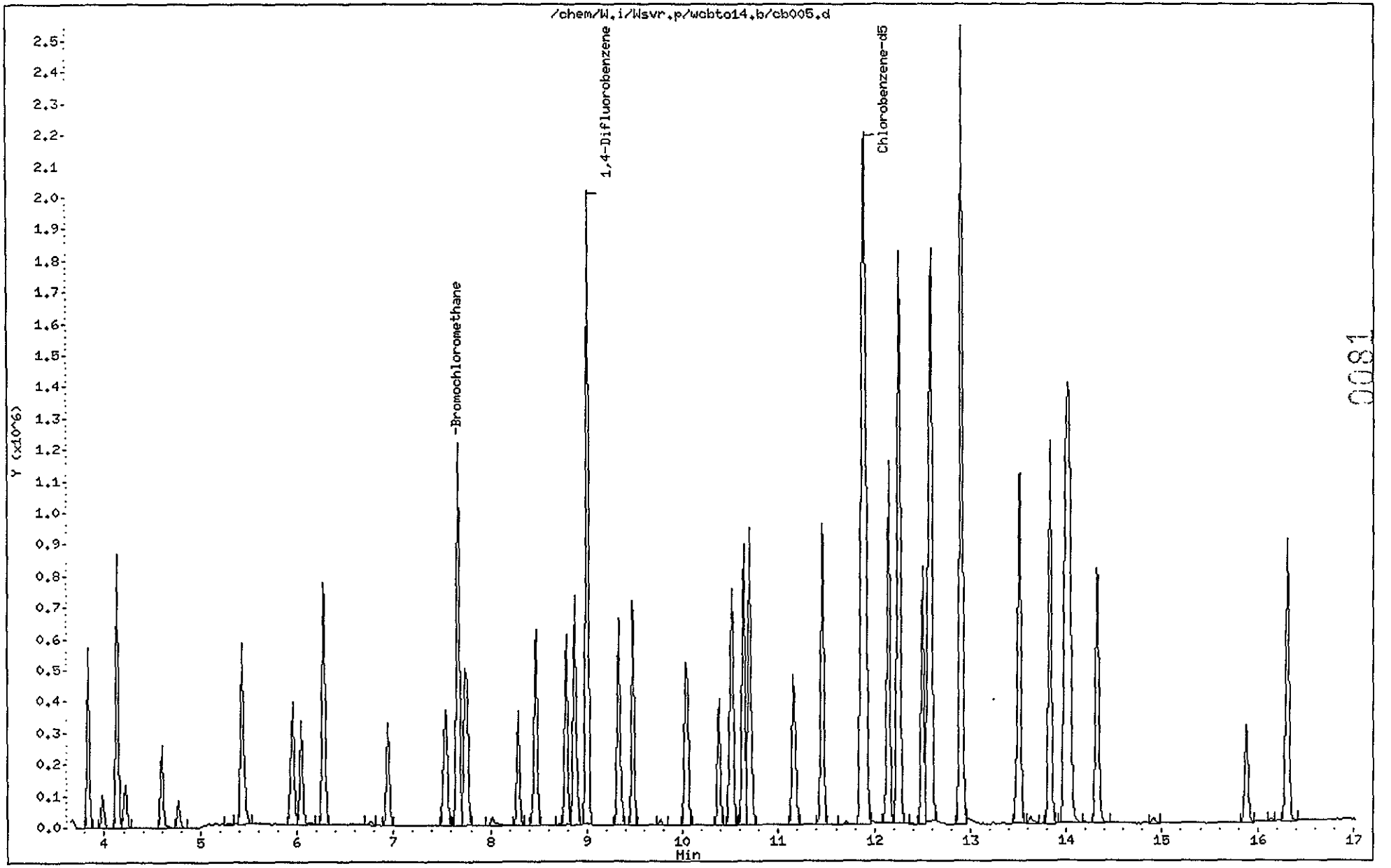
LAB FILE ID: RRF0.5=CB0005I2 RRF5 =CB005
RRF10 =CB010 RRF20 =CB020 RRF40 =CB040

	COMPOUND	RRF0.5	RRF5	RRF10	RRF20	RRF40	$\overline{RRF}$	% RSD
*	Chloromethane	0.968	0.672	0.708	0.648	0.627	0.725	19.2*
	Vinyl Chloride	0.928	0.775	0.792	0.716	0.704	0.783	11.4
	Bromomethane	1.272	1.006	1.018	0.896	0.861	1.011	16.0
	Chloroethane	0.540	0.458	0.450	0.408	0.435	0.458	10.8
	Trichlorofluoromethane	3.108	2.834	2.601	2.153	2.244	2.588	15.4
	Methylene Chloride	1.676	1.157	1.130	0.952	0.926	1.168	25.8
*	1,1-Dichloroethane	2.306	1.944	1.891	1.731	1.542	1.883	15.1*
	Chloroform	2.896	2.499	2.405	2.184	2.011	2.399	14.0
	1,1,1-Trichloroethane	2.670	2.427	2.324	2.119	1.930	2.294	12.4
	Carbon Tetrachloride	0.543	0.556	0.512	0.466	0.409	0.497	12.1
	Benzene	0.801	0.723	0.686	0.638	0.575	0.685	12.5
	1,2-Dichloroethane	1.943	1.791	1.690	1.552	1.436	1.682	11.8
	Trichloroethene	0.350	0.347	0.320	0.298	0.259	0.315	12.0
	1,2-Dichloropropane	0.294	0.287	0.267	0.245	0.216	0.262	12.2
	cis-1,3-Dichloropropene	0.418	0.434	0.425	0.409	0.366	0.410	6.4
	Toluene	0.479	0.578	0.552	0.489	0.408	0.501	13.3
	trans-1,3-Dichloropropene	0.318	0.329	0.332	0.322	0.298	0.320	4.2
	1,1,2-Trichloroethane	0.303	0.303	0.282	0.255	0.224	0.273	12.4
	Tetrachloroethene	0.348	0.439	0.412	0.369	0.304	0.374	14.3
*	Chlorobenzene	0.624	0.767	0.717	0.622	0.508	0.648	15.4*
	Ethylbenzene	0.952	1.346	1.290	1.111	0.899	1.120	17.7
	Xylene (total)	1.004	1.431	1.378	1.236	1.055	1.221	15.5
	Styrene	0.330	0.648	0.638	0.582	0.509	0.541	24.1
	Xylene (m,p)	0.344	0.481	0.460	0.413	0.353	0.410	15.0
	Xylene (o)	0.317	0.470	0.458	0.410	0.349	0.401	16.6
	1,1,2,2-Tetrachloroethane	0.510	0.870	0.803	0.688	0.558	0.686	22.5
	1,3-Dichlorobenzene	0.396	0.768	0.757	0.655	0.530	0.621	25.4
	1,4-Dichlorobenzene	0.481	0.748	0.726	0.660	0.581	0.639	17.2
	1,2-Dichlorobenzene	0.281	0.655	0.648	0.582	0.490	0.531	29.2

* Compounds with required minimum RRF and maximim %RSD values.
All other compounds must meet a minimim RRF of 0.010.

Data File: /chem/W.i/Wsvr.p/wcbto14.b/cb005.d
Date : 10-JUL-2000 10:21
Client ID: ASTD005
Sample Info: ASTD005
Purge Volume: 200.0
Column phase: DB-1

Instrument: W.i
Operator: GMM
Column diameter: 0.35



STL Burlington

AIR TOXICS QUANTITATION REPORT

Data file : /chem/W.i/Wsvr.p/wcbto14.b/cb005.d
Lab Smp Id: ASTD005 Client Smp ID: ASTD005
Inj Date : 10-JUL-2000 10:21
Operator : GMM Inst ID: W.i
Smp Info : ASTD005
Misc Info :
Comment :
Method : /chem/W.i/Wsvr.p/wcbto14.b/ato14.m
Meth Date : 24-Jul-2000 14:59 cpc Quant Type: ISTD
Cal Date : 10-JUL-2000 10:21 Cal File: cb005.d
Als bottle: 2 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50
Processing Host: chemsvr4

Concentration Formula: Amt * DF * X* Uf/Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
X	200.00000	method volume factor
Uf	1.00000	ng unit correction factor
Vo	200.00000	Sample Volume purged (mL)

Cpnd Variable Local Compound Variable

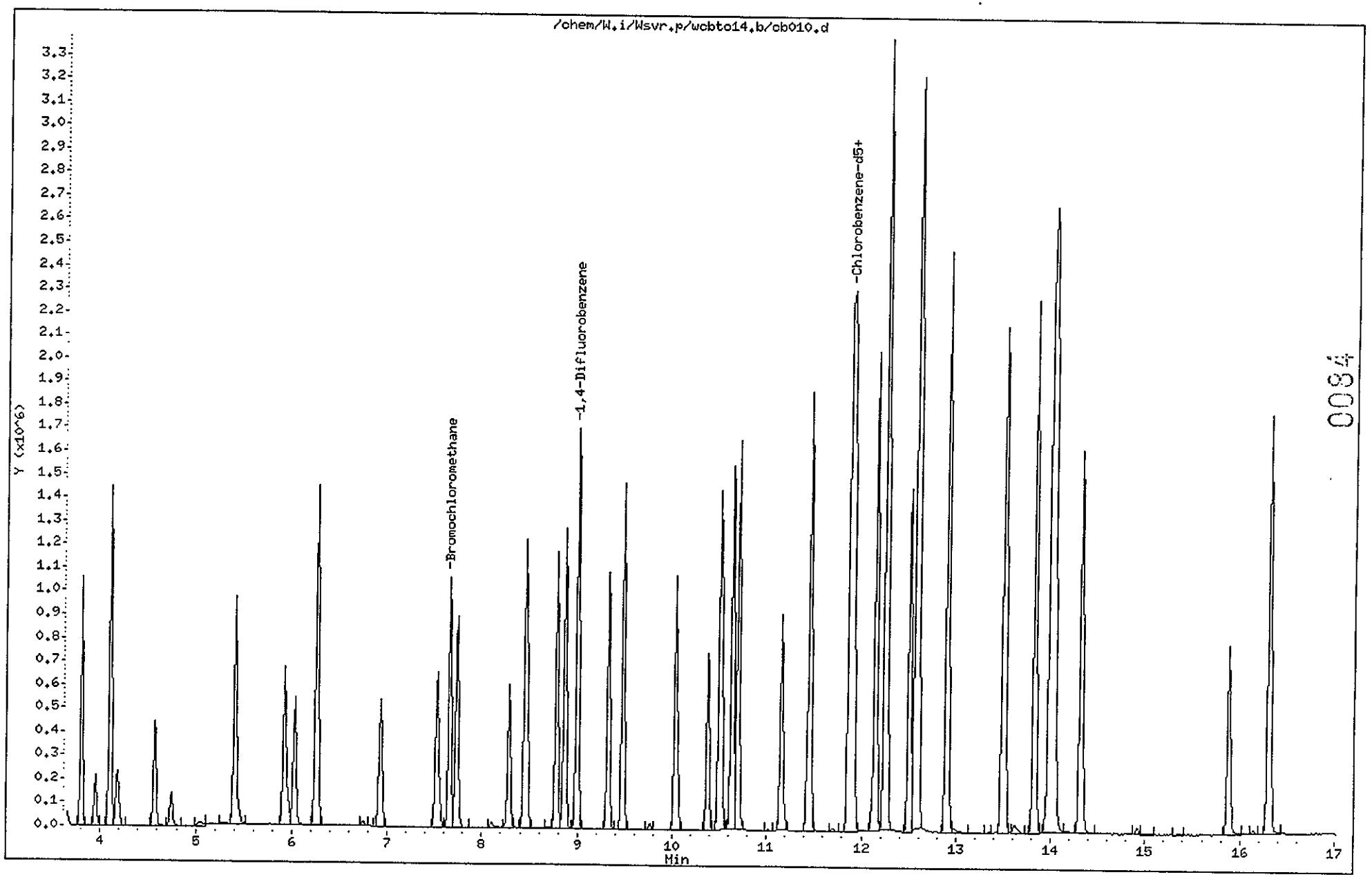
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	AMOUNTS ON-COL (ppbv)
1	Dichlorodifluoromethane	85	3.839	3.798	(0.501)	502814	5.00000	5.3
2	Chloromethane	50	3.983	3.957	(0.520)	117983	5.00000	4.6
3	Dichlorotetrafluoroethane	85	4.142	4.101	(0.540)	500282	5.00000	5.2
4	Vinyl Chloride	62	4.214	4.188	(0.550)	135982	5.00000	4.9
5	Bromomethane	94	4.603	4.563	(0.600)	176579	5.00000	5.0
6	Chloroethane	64	4.776	4.750	(0.623)	80347	5.00000	5.0
7	Trichlorofluoromethane	101	5.436	5.406	(0.709)	497381	5.00000	5.5
8	1,1-Dichloroethene	96	5.951	5.922	(0.776)	158357	5.00000	5.0
9	Methylene Chloride	49	6.043	6.028	(0.788)	203008	5.00000	5.0
10	Freon TF	101	6.270	6.256	(0.818)	386050	5.00000	5.1
11	1,1-Dichloroethane	63	6.938	6.923	(0.905)	341141	5.00000	5.2
12	cis-1,2-Dichloroethene	61	7.530	7.530	(0.982)	257994	5.00000	5.2
* 13	Bromochloromethane	128	7.666	7.652	(1.000)	350963	10.0000	
14	Chloroform	83	7.742	7.743	(1.010)	438504	5.00000	5.2

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	ON-COL (ppbv)
	15 1,2-Dichloroethane	62	8.289	8.274	(1.081)	314293	5.00000	5.3
	16 1,1,1-Trichloroethane	97	8.471	8.456	(1.105)	425919	5.00000	5.3
	17 Benzene	78	8.789	8.775	(0.976)	570051	5.00000	5.3
	18 Carbon Tetrachloride	117	8.880	8.866	(0.986)	438510	5.00000	5.6
*	19 1,4-Difluorobenzene	114	9.002	9.002	(1.000)	1577241	10.0000	
	20 1,2-Dichloropropane	63	9.336	9.321	(1.037)	226026	5.00000	5.5
	21 Trichloroethene	95	9.472	9.473	(1.052)	274025	5.00000	5.5
	22 cis-1,3-Dichloropropene	75	10.034	10.034	(1.115)	341884	5.00000	5.3
	23 trans-1,3-Dichloropropene	75	10.383	10.368	(1.153)	259359	5.00000	5.1
	24 1,1,2-Trichloroethane	83	10.504	10.505	(1.167)	239296	5.00000	5.5
	25 Toluene	92	10.701	10.702	(0.900)	441845	5.00000	5.8
	26 1,2-Dibromoethane	107	11.157	11.157	(0.939)	409899	5.00000	5.8
	27 Tetrachloroethene	166	11.460	11.446	(0.964)	335865	5.00000	5.9
*	28 Chlorobenzene-d5	117	11.885	11.871	(1.000)	1529114	10.0000	
	29 Chlorobenzene	112	11.916	11.901	(1.003)	586425	5.00000	5.9
	30 Ethylbenzene	91	12.143	12.144	(1.022)	1029518	5.00000	6.0
	31 Xylene (m,p)	106	12.249	12.250	(1.031)	735178	10.0000	12
	32 Styrene	104	12.507	12.508	(1.052)	495687	5.00000	6.0
M	33 Xylene (total)	106				1094204	5.00000	18
	34 1,1,2,2-Tetrachloroethane	83	12.568	12.569	(1.057)	665490	5.00000	6.3
	35 Xylene (o)	106	12.583	12.584	(1.059)	359026	5.00000	5.8
	36 1,3,5-Trimethylbenzene	105	13.509	13.494	(1.137)	861832	5.00000	6.4
	37 1,2,4-Trimethylbenzene	105	13.828	13.828	(1.163)	848865	5.00000	6.2
	38 1,3-Dichlorobenzene	146	13.979	13.980	(1.176)	587013	5.00000	6.2
	39 1,4-Dichlorobenzene	146	14.040	14.041	(1.181)	571607	5.00000	5.8
	40 1,2-Dichlorobenzene	146	14.328	14.329	(1.206)	500762	5.00000	6.2
	41 1,2,4-Trichlorobenzene	180	15.892	15.877	(1.337)	138524	5.00000	4.3
	42 Hexachlorobutadiene	225	16.301	16.302	(1.372)	207923	5.00000	6.0

Data File: /chem/W.i/Wsvr.p/wcbto14.b/cb010.d
Date : 10-JUL-2000 10:55
Client ID: ASTD010
Sample Info: ASTD010
Purge Volume: 200.0
Column phase: DB-1

Instrument: W.i

Operator: GMM
Column diameter: 0.35



STL Burlington

AIR TOXICS QUANTITATION REPORT

Data file : /chem/W.i/Wsvr.p/wcbto14.b/cb010.d
Lab Smp Id: ASTD010 Client Smp ID: ASTD010
Inj Date : 10-JUL-2000 10:55
Operator : GMM Inst ID: W.i
Smp Info : ASTD010
Misc Info :
Comment :
Method : /chem/W.i/Wsvr.p/wcbto14.b/ato14.m
Meth Date : 24-Jul-2000 14:59 cpc Quant Type: ISTD
Cal Date : 10-JUL-2000 10:55 Cal File: cb010.d
Als bottle: 3 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50
Processing Host: chemsvr4

Concentration Formula: Amt * DF * X* Uf/Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
X	200.00000	method volume factor
Uf	1.00000	ng unit correction factor
Vo	200.00000	Sample Volume purged (mL)

Cpnd Variable Local Compound Variable

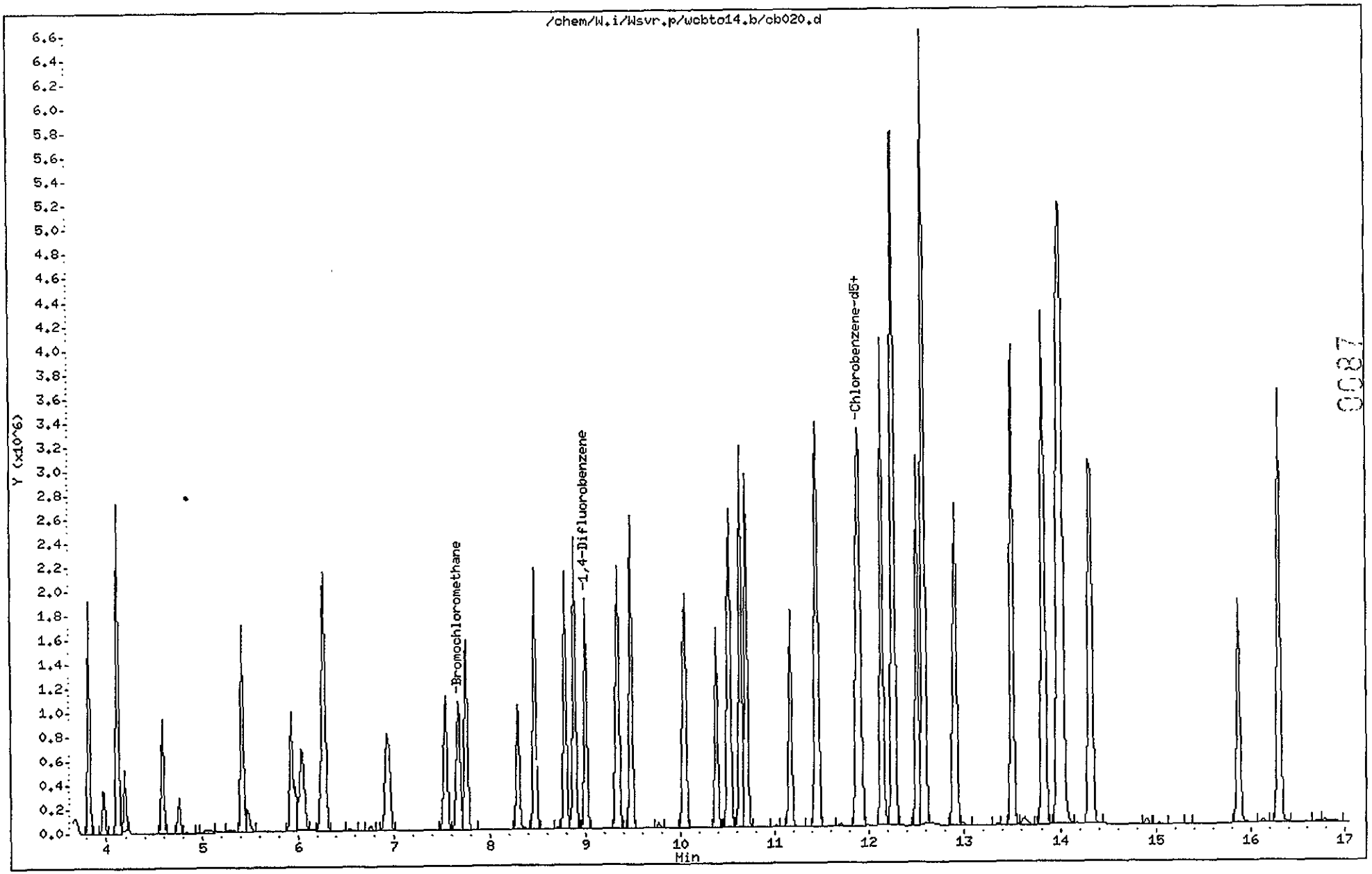
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	AMOUNTS ON-COL (ppbv)
1	Dichlorodifluoromethane	85	3.798	3.798	(0.496)	907652	10.0000	10
2	Chloromethane	50	3.957	3.957	(0.517)	233985	10.0000	9.8
3	Dichlorotetrafluoroethane	85	4.101	4.101	(0.536)	907926	10.0000	9.9
4	Vinyl Chloride	62	4.188	4.188	(0.547)	261703	10.0000	10
5	Bromomethane	94	4.563	4.563	(0.596)	336226	10.0000	10
6	Chloroethane	64	4.750	4.750	(0.621)	148488	10.0000	9.8
7	Trichlorofluoromethane	101	5.406	5.406	(0.706)	859007	10.0000	10
8	1,1-Dichloroethene	96	5.922	5.922	(0.774)	299412	10.0000	10
9	Methylene Chloride	49	6.028	6.028	(0.788)	373295	10.0000	9.7
10	Freon TF	101	6.256	6.256	(0.818)	691766	10.0000	9.7
11	1,1-Dichloroethane	63	6.923	6.923	(0.905)	624587	10.0000	10
12	cis-1,2-Dichloroethene	61	7.530	7.530	(0.984)	476113	10.0000	10
* 13	Bromochloromethane	128	7.652	7.652	(1.000)	330271	10.0000	
14	Chloroform	83	7.743	7.743	(1.012)	794266	10.0000	10

			QUANT SIG					AMOUNTS	
		Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ppbv)	ON-COL (ppbv)
	15	1,2-Dichloroethane	62	8.274	8.274	(1.081)	558139	10.0000	10
	16	1,1,1-Trichloroethane	97	8.456	8.456	(1.105)	767575	10.0000	10
	17	Benzene	78	8.775	8.775	(0.975)	1048110	10.0000	10
	18	Carbon Tetrachloride	117	8.866	8.866	(0.985)	782700	10.0000	10
*	19	1,4-Difluorobenzene	114	9.002	9.002	(1.000)	1527537	10.0000	
	20	1,2-Dichloropropane	63	9.321	9.321	(1.035)	408567	10.0000	10
	21	Trichloroethene	95	9.473	9.473	(1.052)	488262	10.0000	10
	22	cis-1,3-Dichloropropene	75	10.034	10.034	(1.115)	648671	10.0000	10
	23	trans-1,3-Dichloropropene	75	10.368	10.368	(1.152)	507250	10.0000	10
	24	1,1,2-Trichloroethane	83	10.505	10.505	(1.167)	431024	10.0000	10
	25	Toluene	92	10.702	10.702	(0.902)	825501	10.0000	11
	26	1,2-Dibromoethane	107	11.157	11.157	(0.940)	761610	10.0000	11
	27	Tetrachloroethene	166	11.446	11.446	(0.964)	616732	10.0000	11
*	28	Chlorobenzene-d5	117	11.871	11.871	(1.000)	1495244	10.0000	
	29	Chlorobenzene	112	11.901	11.901	(1.003)	1071993	10.0000	11
	30	Ethylbenzene	91	12.144	12.144	(1.023)	1928811	10.0000	12
	31	Xylene (m,p)	106	12.250	12.250	(1.032)	1376255	20.0000	22
	32	Styrene	104	12.508	12.508	(1.054)	954421	10.0000	12
M	33	Xylene (total)	106				2060832	10.0000	34
	34	1,1,2,2-Tetrachloroethane	83	12.569	12.569	(1.059)	1200944	10.0000	12
	35	Xylene (o)	106	12.584	12.584	(1.060)	684577	10.0000	11
	36	1,3,5-Trimethylbenzene	105	13.494	13.494	(1.137)	1599775	10.0000	12
	37	1,2,4-Trimethylbenzene	105	13.828	13.828	(1.165)	1594727	10.0000	12
	38	1,3-Dichlorobenzene	146	13.980	13.980	(1.178)	1131644	10.0000	12
	39	1,4-Dichlorobenzene	146	14.041	14.041	(1.183)	1084890	10.0000	11
	40	1,2-Dichlorobenzene	146	14.329	14.329	(1.207)	968831	10.0000	12
	41	1,2,4-Trichlorobenzene	180	15.877	15.877	(1.337)	341319	10.0000	11
	42	Hexachlorobutadiene	225	16.302	16.302	(1.373)	423917	10.0000	12

Data File: /chem/W.i/Wsvr.p/wcbto14.b/cb020.d
Date : 10-JUL-2000 11:31
Client ID: ASTD020
Sample Info: ASTD020
Purge Volume: 200.0
Column phase: DB-1

Instrument: W.i

Operator: GMM
Column diameter: 0.35



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AIR TOXICS QUANTITATION REPORT

Data file : /chem/W.i/Wsvr.p/wcbto14.b/cb020.d
Lab Smp Id: ASTD020 Client Smp ID: ASTD020
Inj Date : 10-JUL-2000 11:31
Operator : GMM Inst ID: W.i
Smp Info : ASTD020
Misc Info :
Comment :
Method : /chem/W.i/Wsvr.p/wcbto14.b/ato14.m
Meth Date : 24-Jul-2000 14:59 cpc Quant Type: ISTD
Cal Date : 10-JUL-2000 11:31 Cal File: cb020.d
Als bottle: 4 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50
Processing Host: chemsvr4

Concentration Formula: Amt * DF * X* Uf/Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
X	200.00000	method volume factor
Uf	1.00000	ng unit correction factor
Vo	200.00000	Sample Volume purged (mL)

Cpnd Variable Local Compound Variable

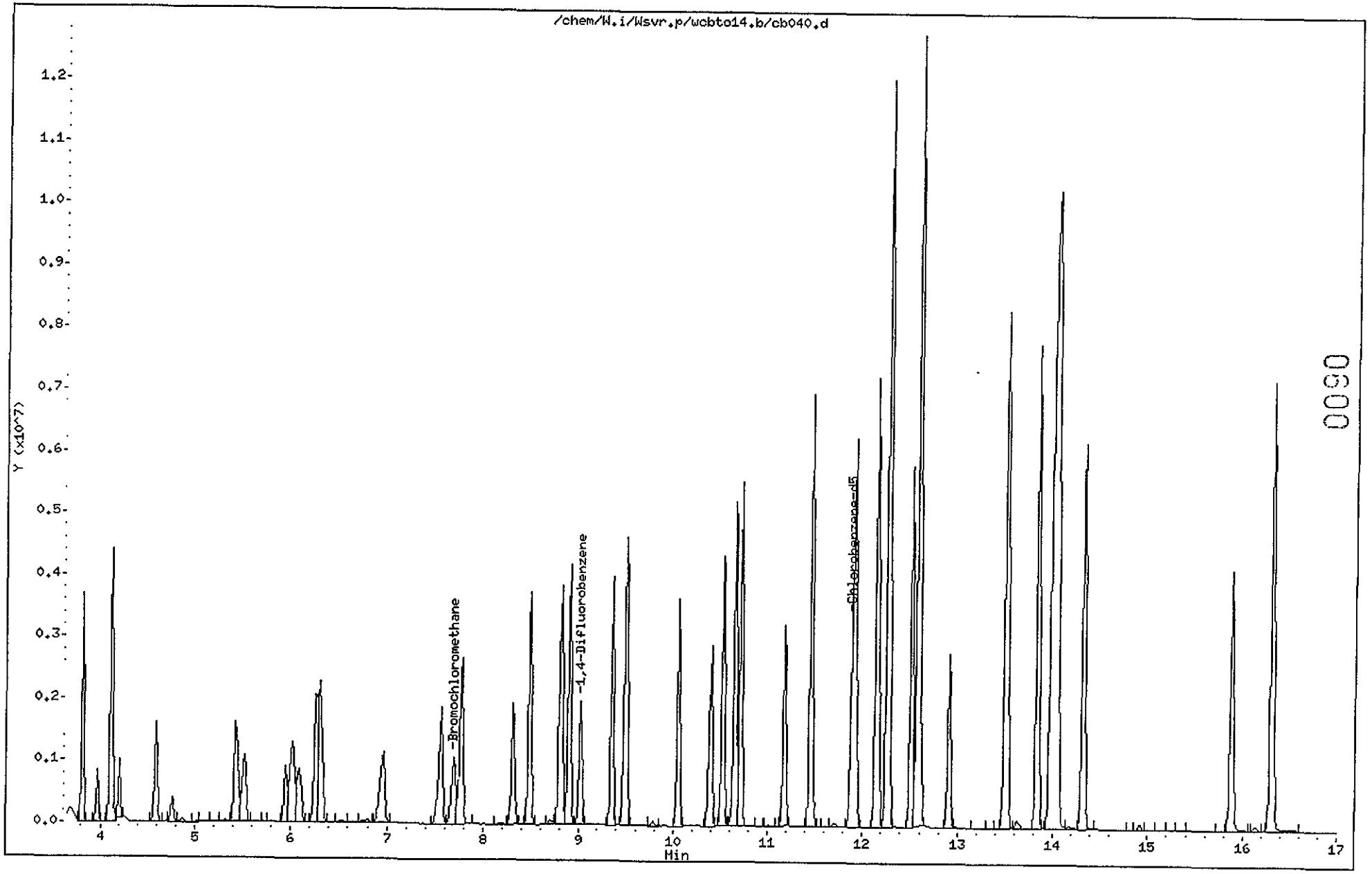
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	AMOUNTS ON-COL (ppbv)
1	Dichlorodifluoromethane	85	3.824	3.798	(0.499)	1626964	20.0000	18
2	Chloromethane	50	3.968	3.957	(0.518)	431468	20.0000	18
3	Dichlorotetrafluoroethane	85	4.127	4.101	(0.538)	1640180	20.0000	18
4	Vinyl Chloride	62	4.199	4.188	(0.548)	476557	20.0000	18
5	Bromomethane	94	4.588	4.563	(0.598)	596264	20.0000	18
6	Chloroethane	64	4.761	4.750	(0.621)	271565	20.0000	18
7	Trichlorofluoromethane	101	5.420	5.406	(0.707)	1432430	20.0000	17
8	1,1-Dichloroethene	96	5.936	5.922	(0.774)	551870	20.0000	18
9	Methylene Chloride	49	6.027	6.028	(0.786)	633288	20.0000	16
10	Freon TF	101	6.270	6.256	(0.818)	1279237	20.0000	18
11	1,1-Dichloroethane	63	6.938	6.923	(0.905)	1151921	20.0000	18
12	cis-1,2-Dichloroethene	61	7.545	7.530	(0.984)	874827	20.0000	18
* 13	Bromochloromethane	128	7.666	7.652	(1.000)	332637	10.0000	
14	Chloroform	83	7.757	7.743	(1.012)	1453252	20.0000	18

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	AMOUNTS ON-COL (ppbv)
	15 1,2-Dichloroethane	62	8.289	8.274	(1.081)	1032182	20.0000	18
	16 1,1,1-Trichloroethane	97	8.471	8.456	(1.105)	1409719	20.0000	18
	17 Benzene	78	8.789	8.775	(0.976)	1973502	20.0000	19
	18 Carbon Tetrachloride	117	8.880	8.866	(0.986)	1440836	20.0000	19
*	19 1,4-Difluorobenzene	114	9.002	9.002	(1.000)	1546872	10.0000	
	20 1,2-Dichloropropane	63	9.336	9.321	(1.037)	759496	20.0000	19
	21 Trichloroethene	95	9.488	9.473	(1.054)	921997	20.0000	19
	22 cis-1,3-Dichloropropene	75	10.049	10.034	(1.116)	1265836	20.0000	20
	23 trans-1,3-Dichloropropene	75	10.383	10.368	(1.153)	995985	20.0000	20
	24 1,1,2-Trichloroethane	83	10.519	10.505	(1.169)	789055	20.0000	19
	25 Toluene	92	10.702	10.702	(0.900)	1563358	20.0000	20
	26 1,2-Dibromoethane	107	11.172	11.157	(0.940)	1445172	20.0000	20
	27 Tetrachloroethene	166	11.460	11.446	(0.964)	1179767	20.0000	20
*	28 Chlorobenzene-d5	117	11.885	11.871	(1.000)	1598812	10.0000	
	29 Chlorobenzene	112	11.916	11.901	(1.003)	1988806	20.0000	19
	30 Ethylbenzene	91	12.143	12.144	(1.022)	3552793	20.0000	20
	31 Xylene (m,p)	106	12.265	12.250	(1.032)	2641744	40.0000	40
	32 Styrene	104	12.507	12.508	(1.052)	1862463	20.0000	22
M	33 Xylene (total)	106				3951883	20.0000	61
	34 1,1,2,2-Tetrachloroethane	83	12.568	12.569	(1.057)	2200595	20.0000	20
	35 Xylene (o)	106	12.583	12.584	(1.059)	1310139	20.0000	20
	36 1,3,5-Trimethylbenzene	105	13.509	13.494	(1.137)	3019101	20.0000	21
	37 1,2,4-Trimethylbenzene	105	13.828	13.828	(1.163)	3003461	20.0000	21
	38 1,3-Dichlorobenzene	146	13.980	13.980	(1.176)	2095135	20.0000	21
	39 1,4-Dichlorobenzene	146	14.040	14.041	(1.181)	2110122	20.0000	21
	40 1,2-Dichlorobenzene	146	14.329	14.329	(1.206)	1862416	20.0000	22
	41 1,2,4-Trichlorobenzene	180	15.876	15.877	(1.336)	790175	20.0000	23
	42 Hexachlorobutadiene	225	16.301	16.302	(1.372)	851163	20.0000	23

Data File: /chem/W.i/Wsvr.p/wcbto14.b/cb040.d
Date : 10-JUL-2000 12:08
Client ID: ASTD040
Sample Info: ASTD040
Purge Volume: 200.0
Column phase: DB-1

Instrument: W.i

Operator: GMM
Column diameter: 0.35



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AIR TOXICS QUANTITATION REPORT

Data file : /chem/W.i/Wsvr.p/wcbto14.b/cb040.d
Lab Smp Id: ASTD040 Client Smp ID: ASTD040
Inj Date : 10-JUL-2000 12:08
Operator : GMM Inst ID: W.i
Smp Info : ASTD040
Misc Info :
Comment :
Method : /chem/W.i/Wsvr.p/wcbto14.b/ato14.m
Meth Date : 24-Jul-2000 14:59 cpc Quant Type: ISTD
Cal Date : 10-JUL-2000 12:08 Cal File: cb040.d
Als bottle: 5 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50
Processing Host: chemsvr4

Concentration Formula: Amt * DF * X* Uf/Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
X	200.00000	method volume factor
Uf	1.00000	ng unit correction factor
Vo	200.00000	Sample Volume purged (mL)

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	AMOUNTS ON-COL (ppbv)
	1 Dichlorodifluoromethane	85	3.809	3.798	(0.496)	2908407	40.0000	32
	2 Chloromethane	50	3.968	3.957	(0.517)	840506	40.0000	34
	3 Dichlorotetrafluoroethane	85	4.127	4.101	(0.537)	2991090	40.0000	32
	4 Vinyl Chloride	62	4.199	4.188	(0.547)	944808	40.0000	36
	5 Bromomethane	94	4.588	4.563	(0.597)	1154174	40.0000	34
	6 Chloroethane	64	4.761	4.750	(0.620)	583101	40.0000	38(M)
	7 Trichlorofluoromethane	101	5.420	5.406	(0.706)	3008932	40.0000	35(M)
	8 1,1-Dichloroethene	96	5.997	5.922	(0.781)	1071111	40.0000	36(M)
	9 Methylene Chloride	49	6.088	6.028	(0.793)	1241632	40.0000	32
	10 Freon TF	101	6.300	6.256	(0.820)	2459550	40.0000	34(M)
	11 1,1-Dichloroethane	63	6.968	6.923	(0.907)	2067440	40.0000	33
	12 cis-1,2-Dichloroethene	61	7.560	7.530	(0.984)	1654016	40.0000	35
*	13 Bromochloromethane	128	7.681	7.652	(1.000)	335236	10.0000	
	14 Chloroform	83	7.772	7.743	(1.012)	2697170	40.0000	34

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	AMOUNTS ON-COL (ppbv)
15	1,2-Dichloroethane	62	8.304	8.274	(1.081)	1926390	40.0000	34
16	1,1,1-Trichloroethane	97	8.486	8.456	(1.105)	2588013	40.0000	34
17	Benzene	78	8.804	8.775	(0.976)	3737046	40.0000	34
18	Carbon Tetrachloride	117	8.895	8.866	(0.987)	2660863	40.0000	33
* 19	1,4-Difluorobenzene	114	9.017	9.002	(1.000)	1624728	10.0000	
20	1,2-Dichloropropane	63	9.351	9.321	(1.037)	1404698	40.0000	33
21	Trichloroethene	95	9.487	9.473	(1.052)	1685281	40.0000	33
22	cis-1,3-Dichloropropene	75	10.049	10.034	(1.114)	2379268	40.0000	36
23	trans-1,3-Dichloropropene	75	10.398	10.368	(1.153)	1934419	40.0000	37
24	1,1,2-Trichloroethane	83	10.519	10.505	(1.167)	1458832	40.0000	33
25	Toluene	92	10.716	10.702	(0.902)	2998386	40.0000	32
26	1,2-Dibromoethane	107	11.172	11.157	(0.940)	2717906	40.0000	32
27	Tetrachloroethene	166	11.460	11.446	(0.964)	2233859	40.0000	32
* 28	Chlorobenzene-d5	117	11.885	11.871	(1.000)	1839051	10.0000	
29	Chlorobenzene	112	11.915	11.901	(1.003)	3738760	40.0000	31
30	Ethylbenzene	91	12.143	12.144	(1.022)	6616083	40.0000	32
31	Xylene (m,p)	106	12.264	12.250	(1.032)	5192826	80.0000	69
32	Styrene	104	12.507	12.508	(1.052)	3744331	40.0000	38
M 33	Xylene (total)	106				7762682	40.0000	100
34	1,1,2,2-Tetrachloroethane	83	12.583	12.569	(1.059)	4101773	40.0000	32
35	Xylene (o)	106	12.598	12.584	(1.060)	2569856	40.0000	35
36	1,3,5-Trimethylbenzene	105	13.509	13.494	(1.137)	5712304	40.0000	35
37	1,2,4-Trimethylbenzene	105	13.827	13.828	(1.163)	5761755	40.0000	35
38	1,3-Dichlorobenzene	146	13.994	13.980	(1.177)	3898564	40.0000	34
39	1,4-Dichlorobenzene	146	14.040	14.041	(1.181)	4271203	40.0000	36
40	1,2-Dichlorobenzene	146	14.328	14.329	(1.206)	3603688	40.0000	37
41	1,2,4-Trichlorobenzene	180	15.876	15.877	(1.336)	1801169	40.0000	46(A)
42	Hexachlorobutadiene	225	16.301	16.302	(1.372)	1724558	40.0000	41(A)

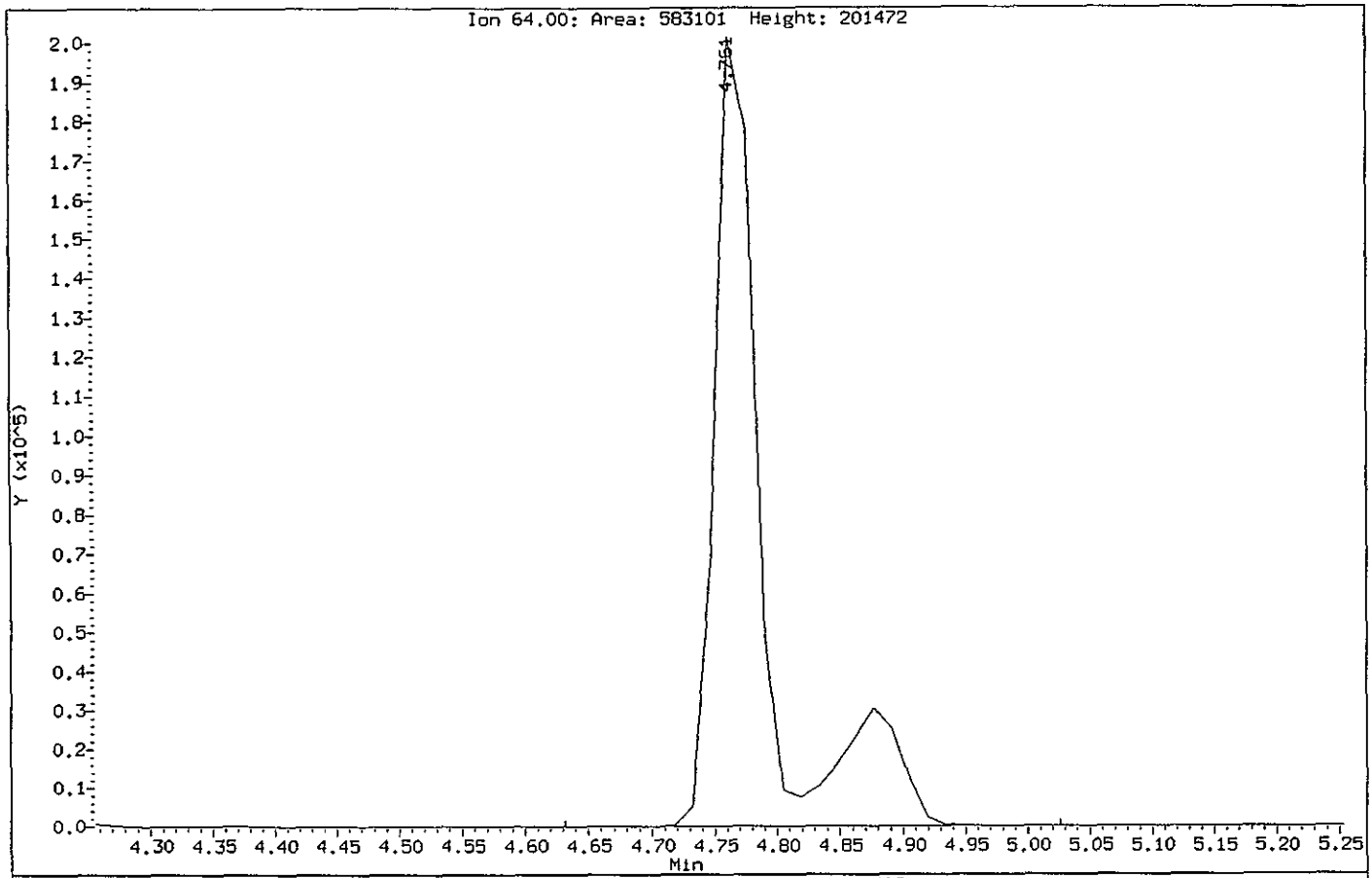
QC Flag Legend

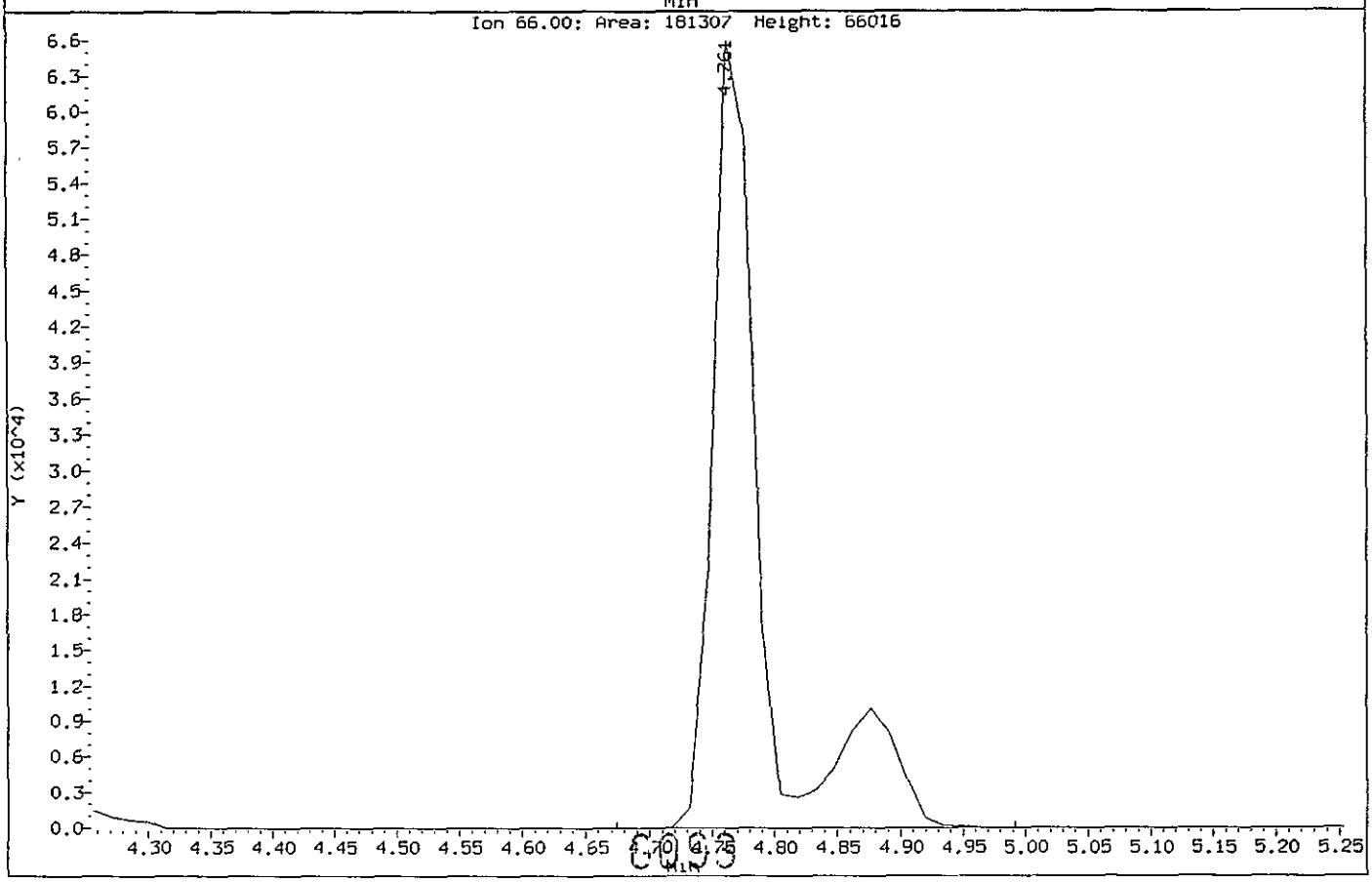
A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.

CR 7/24/00

Data File: /chem/W.i/Wsvr.p/wcbto14.b/cb040.d
Injection Date: 10-JUL-2000 12:08
Instrument: W.i
Client Sample ID: ASTD040

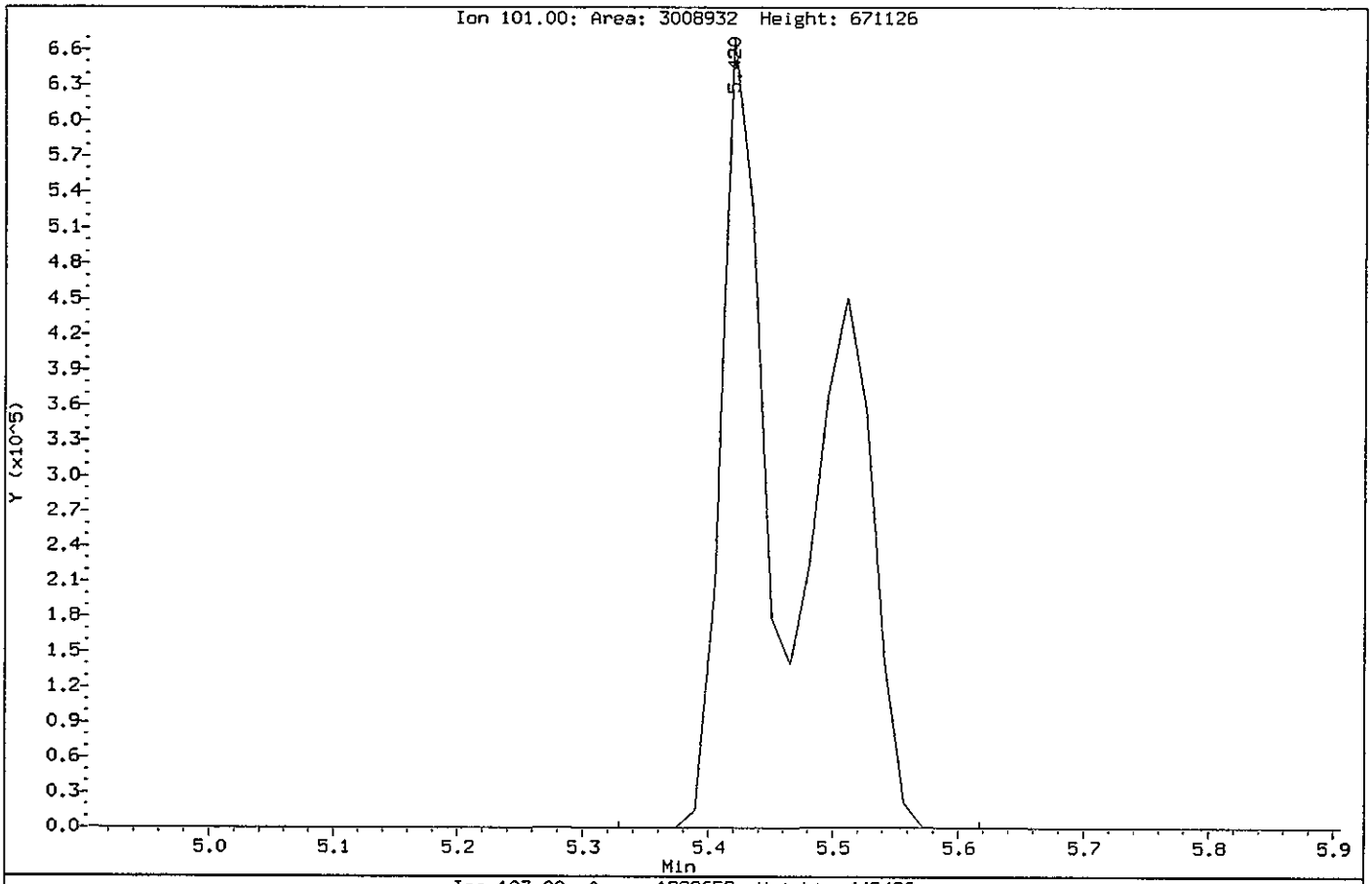
Compound: Chloroethane
CAS Number: 75-00-3

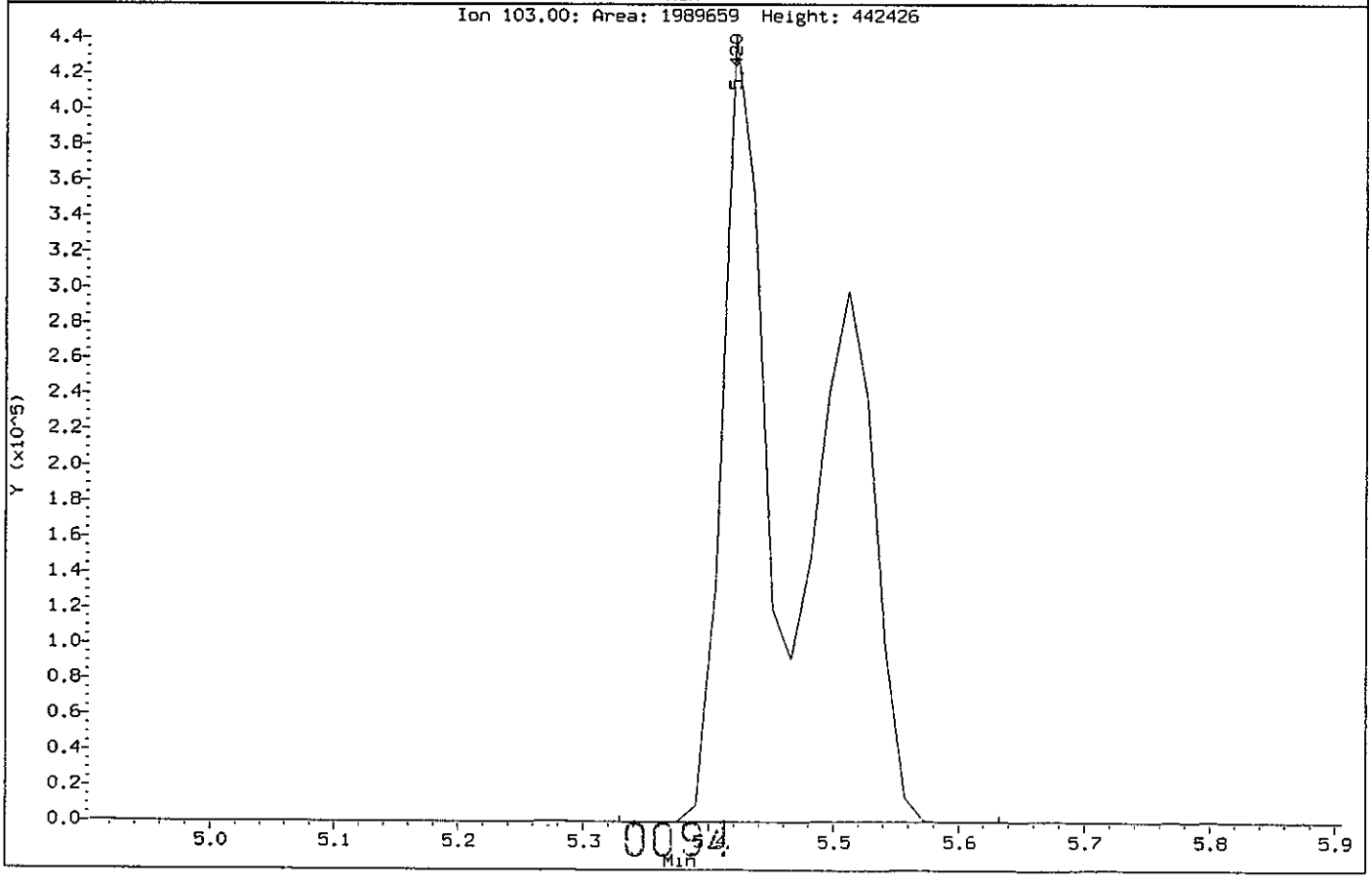




Data File: /chem/W.i/Wsvr.p/wcbto14.b/cb040.d
Injection Date: 10-JUL-2000 12:08
Instrument: W.i
Client Sample ID: ASTD040

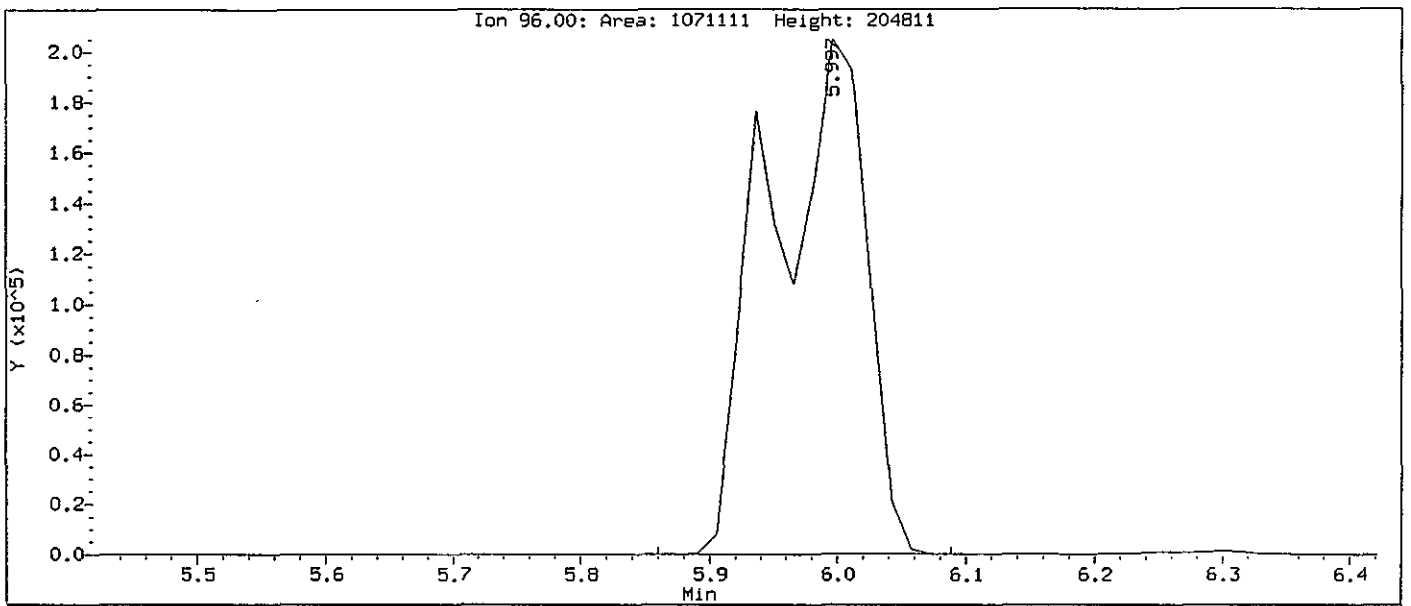
Compound: Trichlorofluoromethane
CAS Number: 75-69-4

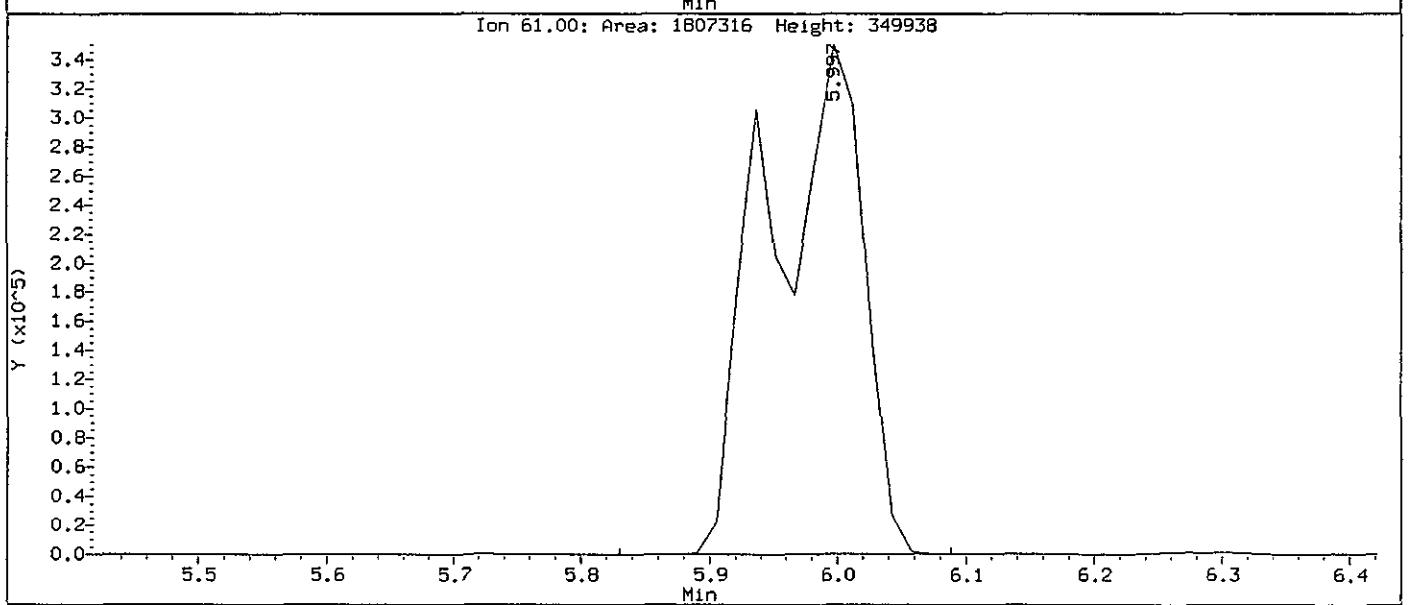


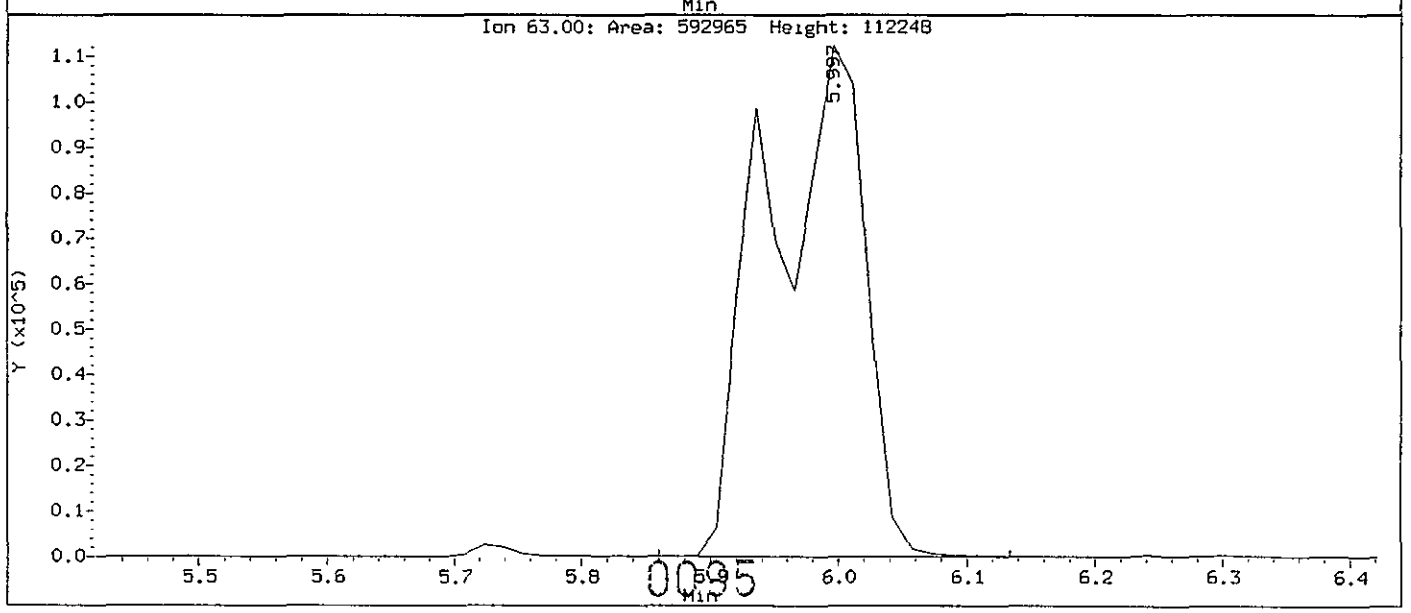


Data File: /chem/W.i/Wsvr.p/wcbto14.b/cb040.d
Injection Date: 10-JUL-2000 12:08
Instrument: W.i
Client Sample ID: ASTD040

Compound: 1,1-Dichloroethene
CAS Number: 75-35-4



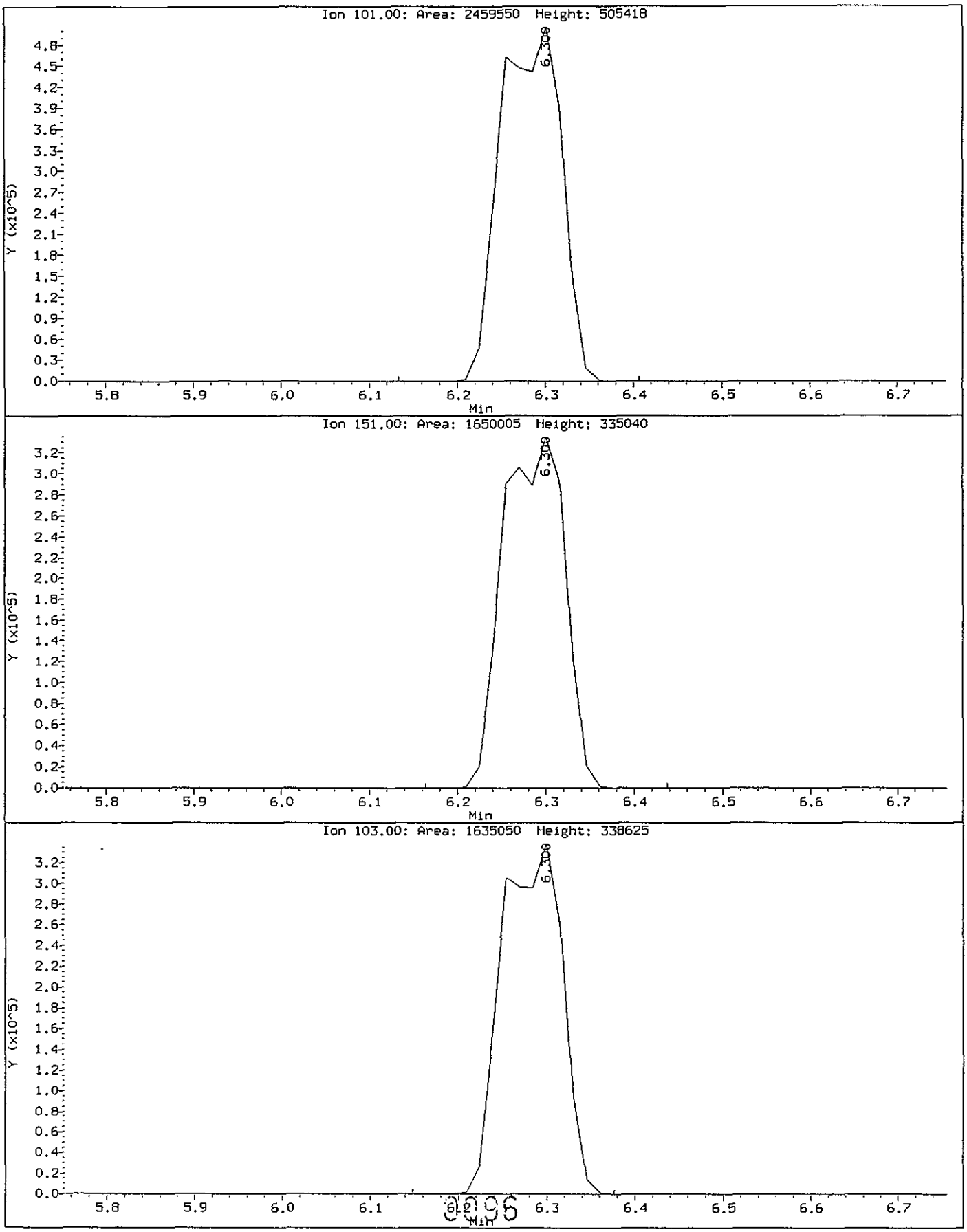




0095

Data File: /chem/W.i/Wsvr.p/wcbta14.b/cb040.d
Injection Date: 10-JUL-2000 12:08
Instrument: W.i
Client Sample ID: ASTD040

Compound: Freon TF
CAS Number: 76-13-1



FORM 7
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 79113

Instrument ID: W Calibration Date: 07/28/00 Time: 0648

Lab File ID: CB010I Init. Calib. Date(s): 07/10/00 07/10/00

Heated Purge: (Y/N) N Init. Calib. Times: 1021 1337

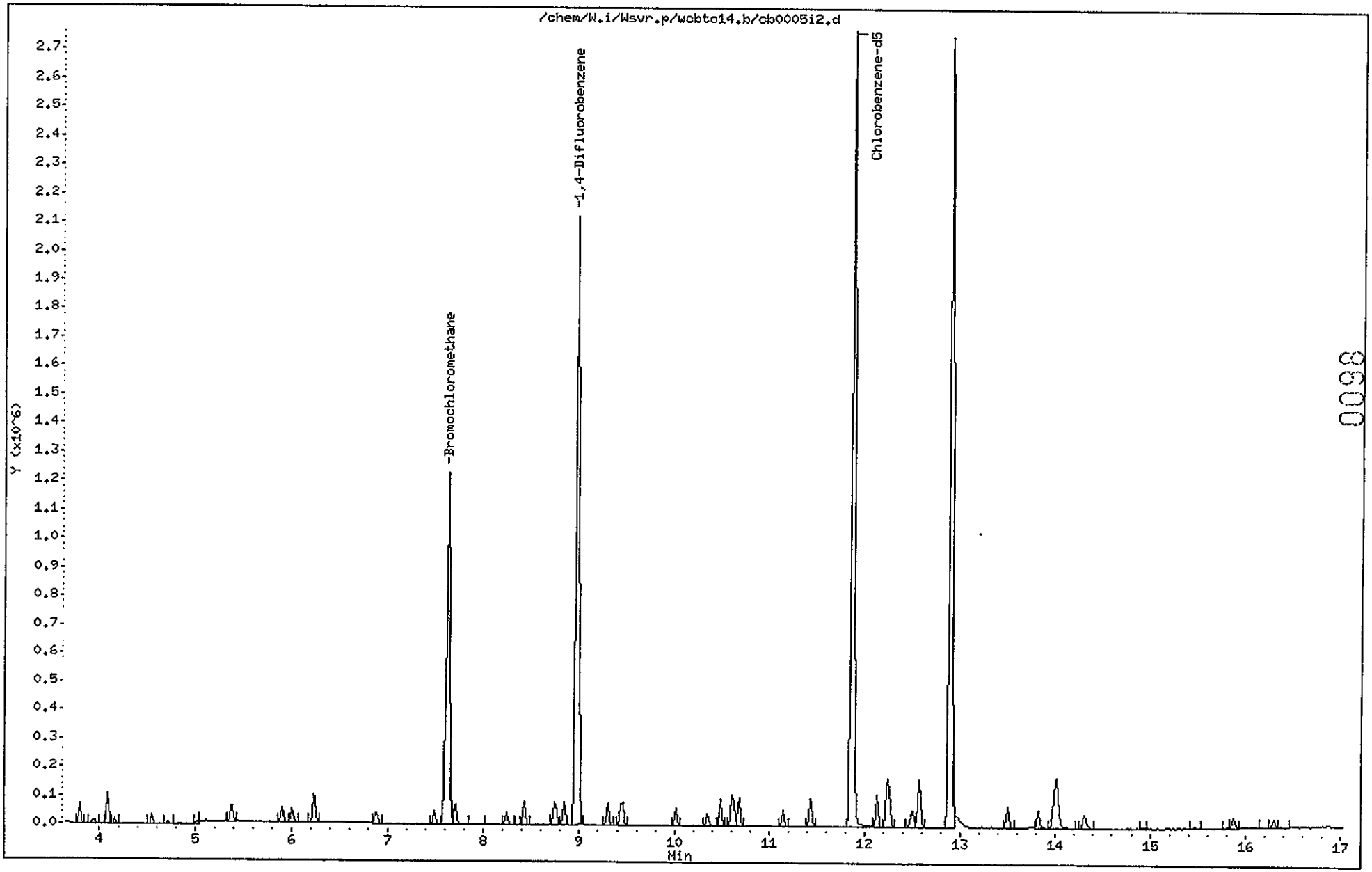
GC Column: DB-1 ID: 0.35 (mm)

COMPOUND	$\overline{RRF}$	RRF10	MIN RRF	%D	MAX %D
Chloromethane	0.725	0.755	0.1	4.1	30.0
Vinyl Chloride	0.783	0.832	0.01	6.2	30.0
Bromomethane	1.011	1.068	0.01	5.6	30.0
Chloroethane	0.458	0.503	0.01	9.8	30.0
Trichlorofluoromethane	2.588	2.854	0.01	10.3	30.0
Methylene Chloride	1.168	1.243	0.01	6.4	30.0
1,1-Dichloroethane	1.883	2.084	0.1	10.7	30.0
Chloroform	2.399	2.655	0.01	10.7	30.0
1,1,1-Trichloroethane	2.294	2.564	0.01	11.8	30.0
Carbon Tetrachloride	0.497	0.542	0.01	9.0	30.0
Benzene	0.685	0.723	0.01	5.5	30.0
1,2-Dichloroethane	1.682	1.845	0.01	9.7	30.0
Trichloroethene	0.315	0.343	0.01	8.9	30.0
1,2-Dichloropropane	0.262	0.287	0.01	9.5	30.0
cis-1,3-Dichloropropene	0.410	0.472	0.01	15.1	30.0
Toluene	0.501	0.540	0.01	7.8	30.0
trans-1,3-Dichloropropene	0.320	0.367	0.01	14.7	30.0
1,1,2-Trichloroethane	0.273	0.300	0.01	9.9	30.0
Tetrachloroethene	0.374	0.396	0.01	5.9	30.0
Chlorobenzene	0.648	0.705	0.3	8.8	30.0
Ethylbenzene	1.120	1.230	0.01	9.8	30.0
Xylene (total)	1.221	1.333	0.01	9.2	30.0
Styrene	0.541	0.609	0.01	12.6	30.0
Xylene (m,p)	0.410	0.446	0.01	8.8	30.0
Xylene (o)	0.401	0.441	0.01	10.0	30.0
1,1,2,2-Tetrachloroethane	0.686	0.780	0.01	13.7	30.0
1,3-Dichlorobenzene	0.621	0.673	0.01	8.4	30.0
1,4-Dichlorobenzene	0.639	0.710	0.01	11.1	30.0
1,2-Dichlorobenzene	0.531	0.604	0.01	13.7	30.0

Data File: /chem/W.i/Wsvr.p/wcbto14.b/cb0005i2.d
Date : 10-JUL-2000 13:37
Client ID: ASTD0005
Sample Info: ASTD0005
Purge Volume: 200.0
Column phase: DB-1

Instrument: W.i

Operator: GHM
Column diameter: 0.35



STL Burlington

AIR TOXICS QUANTITATION REPORT

Data file : /chem/W.i/Wsvr.p/wcbto14.b/cb0005i2.d
Lab Smp Id: ASTD0005 Client Smp ID: ASTD0005
Inj Date : 10-JUL-2000 13:37
Operator : GMM Inst ID: W.i
Smp Info : ASTD0005
Misc Info :
Comment :
Method : /chem/W.i/Wsvr.p/wcbto14.b/ato14.m
Meth Date : 24-Jul-2000 14:59 cpc Quant Type: ISTD
Cal Date : 10-JUL-2000 13:37 Cal File: cb0005i2.d
Als bottle: 1 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50
Processing Host: chemsvr4

Concentration Formula: Amt * DF * X* Uf/Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
X	200.00000	method volume factor
Uf	1.00000	ng unit correction factor
Vo	200.00000	Sample Volume purged (mL)

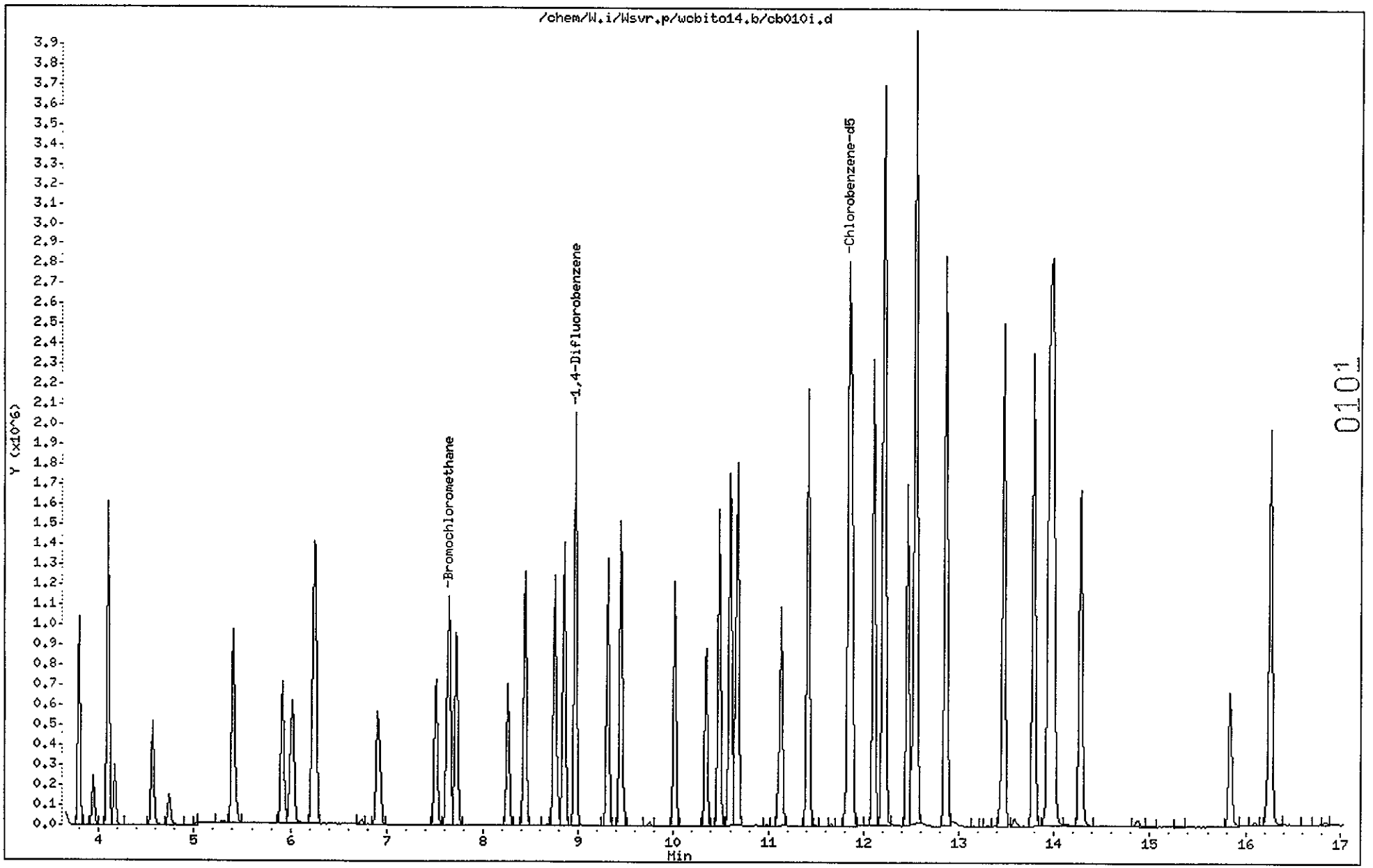
Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	AMOUNTS ON-COL (ppbv)
1	Dichlorodifluoromethane	85	3.795	3.798	(0.498)	60504	0.50000	0.61
2	Chloromethane	50	3.954	3.957	(0.519)	17602	0.50000	0.67
3	Dichlorotetrafluoroethane	85	4.083	4.101	(0.536)	64145	0.50000	0.64
4	Vinyl Chloride	62	4.170	4.188	(0.547)	16881	0.50000	0.59
5	Bromomethane	94	4.545	4.563	(0.596)	23130	0.50000	0.63
6	Chloroethane	64	4.718	4.750	(0.619)	9811	0.50000	0.59
7	Trichlorofluoromethane	101	5.390	5.406	(0.707)	56514	0.50000	0.60
8	1,1-Dichloroethene	96	5.906	5.922	(0.775)	19099	0.50000	0.58
9	Methylene Chloride	49	5.997	6.028	(0 787)	30468	0.50000	0.72
10	Freon TF	101	6.225	6.256	(0.817)	49950	0.50000	0.64
11	1,1-Dichloroethane	63	6.892	6.923	(0.904)	41935	0.50000	0.61
12	cis-1,2-Dichloroethene	61	7.484	7 530	(0.982)	29341	0.50000	0.57
* 13	Bromochloromethane	128	7.621	7.652	(1.000)	363665	10.0000	
14	Chloroform	83	7.712	7.743	(1 012)	52651	0.50000	0.60

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	AMOUNTS ON-COL (ppbv)
	15 1,2-Dichloroethane	62	8.243	8.274	(1.082)	35338	0.50000	0.58
	16 1,1,1-Trichloroethane	97	8.425	8.456	(1.106)	48552	0.50000	0.58
	17 Benzene	78	8.744	8.775	(0.975)	71781	0.50000	0.58
	18 Carbon Tetrachloride	117	8.835	8.866	(0.985)	48686	0.50000	0.55
*	19 1,4-Difluorobenzene	114	8.971	9.002	(1.000)	1792767	10.0000	
	20 1,2-Dichloropropane	63	9.305	9.321	(1.037)	26381	0.50000	0.56
	21 Trichloroethene	95	9.442	9.473	(1.052)	31408	0.50000	0.56
	22 cis-1,3-Dichloropropene	75	10.018	10.034	(1.117)	37494	0.50000	0.51
	24 1,1,2-Trichloroethane	83	10.489	10.505	(1.169)	27182	0.50000	0.55
*	28 Chlorobenzene-d5	117	11.870	11.871	(1.000)	1997368	10.0000	
	31 Xylene (m,p)	106	12.249	12.250	(1 032)	68656	1.00000	0.84
M	33 Xylene (total)	106				100304	0.50000	1.2

Data File: /chem/W.i/Wsvr.p/wcbito14.b/cb010i.d
Date : 28-JUL-2000 06:48
Client ID: ASTD010
Sample Info: ASTD010
Purge Volume: 200.0
Column phase: DB-1

Instrument: W.i
Operator: GMM
Column diameter: 0.35



STL Burlington

AIR TOXICS QUANTITATION REPORT

Data file : /chem/W.i/Wsvr.p/wcbito14.b/cb010i.d
Lab Smp Id: ASTD010 Client Smp ID: ASTD010
Inj Date : 28-JUL-2000 06:48
Operator : GMM Inst ID: W.i
Smp Info : ASTD010
Misc Info :
Comment :
Method : /chem/W.i/Wsvr.p/wcbito14.b/ato14.m
Meth Date : 31-Jul-2000 20:19 cpc Quant Type: ISTD
Cal Date : 10-JUL-2000 13:37 Cal File: cb0005i2.d
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ACCANA.sub
Target Version: 3.50
Processing Host: chemsvr4

Concentration Formula: Amt * DF * X* Uf/Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
X	200.00000	method volume factor
Uf	1.00000	ng unit correction factor
Vo	200.00000	Sample Volume purged (mL)

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	AMOUNTS ON-COL (ppbv)
	2 Chloromethane	50	3.944	3.944	(0.516)	252188	10.0000	10
	4 Vinyl Chloride	62	4.175	4.175	(0.547)	277676	10.0000	11
	5 Bromomethane	94	4.564	4.564	(0.598)	356425	10.0000	10
	6 Chloroethane	64	4.737	4.737	(0.620)	167850	10.0000	11
	7 Trichlorofluoromethane	101	5.407	5.407	(0.708)	952741	10.0000	11
	9 Methylene Chloride	49	6.014	6.014	(0.787)	414796	10.0000	11
	11 1,1-Dichloroethane	63	6.909	6.909	(0.905)	695796	10.0000	11
*	13 Bromochloromethane	128	7.638	7.638	(1.000)	333811	10.0000	
	14 Chloroform	83	7.729	7.729	(1.012)	886308	10.0000	11
	15 1,2-Dichloroethane	62	8.260	8.260	(1.081)	615923	10.0000	11
	16 1,1,1-Trichloroethane	97	8.442	8.442	(1.105)	856042	10.0000	11
	17 Benzene	78	8.761	8.761	(0.976)	1145870	10.0000	10
	18 Carbon Tetrachloride	117	8.852	8.852	(0.986)	859084	10.0000	11
*	19 1,4-Difluorobenzene	114	8.973	8.973	(1.000)	1585181	10.0000	

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	AMOUNTS ON-COL (ppbv)
	20 1,2-Dichloropropane	63	9.307	9.307	(1.037)	454922	10.0000	11
	21 Trichloroethene	95	9.443	9 443	(1.052)	543952	10.0000	11
	22 cis-1,3-Dichloropropene	75	10.005	10.005	(1.115)	748201	10.0000	12
	23 trans-1,3-Dichloropropene	75	10.354	10.354	(1.154)	582296	10.0000	11
	24 1,1,2-Trichloroethane	83	10.475	10 475	(1.167)	475461	10.0000	11
	25 Toluene	92	10.673	10.673	(0.901)	911305	10.0000	11
	27 Tetrachloroethene	166	11.416	11.416	(0.964)	667366	10.0000	10
*	28 Chlorobenzene-d5	117	11.841	11.841	(1.000)	1685747	10.0000	
	29 Chlorobenzene	112	11.872	11 872	(1.003)	1188160	10.0000	11
	30 Ethylbenzene	91	12.099	12.099	(1.022)	2074235	10.0000	11
	31 Xylene (m,p)	106	12.221	12.221	(1 032)	1503785	20.0000	22
	32 Styrene	104	12.463	12.463	(1.053)	1026969	10.0000	11
M	33 Xylene (total)	106				2247798	10.0000	33
	34 1,1,2,2-Tetrachloroethane	83	12.539	12.539	(1.059)	1315750	10.0000	11
	35 Xylene (o)	106	12.539	12.539	(1.059)	744013	10.0000	11
	38 1,3-Dichlorobenzene	146	13.935	13.935	(1.177)	1134512	10.0000	11
	39 1,4-Dichlorobenzene	146	13.996	13.996	(1.182)	1197236	10.0000	11
	40 1,2-Dichlorobenzene	146	14.285	14.285	(1.206)	1017895	10.0000	11

STL Burlington

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: W.i
Lab File ID: cb010i.d
Analysis Type: AIR
Lab Sample ID: ASTD010
Method: /chem/W.i/Wsvr.p/wcbito14.b/ato14.m

Injection Date: 28-JUL-2000 06:48
Init. Cal. Date(s): 10-JUL-2000 10-JUL-2000
Init. Cal. Times: 10:21 13:37
Quant Type: ISTD

	COMPOUND	RRF / AMOUNT	RF10	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
	2 Chloromethane	0.72485	0.75548	0.100	-4.22634	30.00000	Averaged
	4 Vinyl Chloride	0.78332	0.83184	0.010	-6.19354	30.00000	Averaged
	5 Bromomethane	1.01067	1.06774	0.010	-5.64678	30.00000	Averaged
	6 Chloroethane	0.45802	0.50283	0.010	-9.78392	30.00000	Averaged
	7 Trichlorofluoromethane	2.58808	2.85413	0.010	-10.28009	30.00000	Averaged
	9 Methylene Chloride	1.16812	1.24261	0.010	-6.37671	30.00000	Averaged
	11 1,1-Dichloroethane	1.88295	2.08440	0.100	-10.69898	30.00000	Averaged
	14 Chloroform	2.39904	2.65512	0.010	-10.67408	30.00000	Averaged
	15 1,2-Dichloroethane	1.68251	1.84512	0.010	-9.66524	30.00000	Averaged
	16 1,1,1-Trichloroethane	2.29408	2.56445	0.010	-11.78572	30.00000	Averaged
	17 Benzene	0.68454	0.72286	0.010	-5.59836	30.00000	Averaged
	18 Carbon Tetrachloride	0.49735	0.54195	0.010	-8.96749	30.00000	Averaged
	20 1,2-Dichloropropane	0.26201	0.28698	0.010	-9.53342	30.00000	Averaged
	21 Trichloroethene	0.31497	0.34315	0.010	-8.94655	30.00000	Averaged
	22 cis-1,3-Dichloropropene	0.41034	0.47200	0.010	-15.02460	30.00000	Averaged
	23 trans-1,3-Dichloropropene	0.31964	0.36734	0.010	-14.92175	30.00000	Averaged
	24 1,1,2-Trichloroethane	0.27367	0.29994	0.010	-9.59807	30.00000	Averaged
	25 Toluene	0.50110	0.54059	0.010	-7.88107	30.00000	Averaged
	27 Tetrachloroethene	0.37442	0.39589	0.010	-5.73457	30.00000	Averaged
	29 Chlorobenzene	0.64767	0.70483	0.300	-8.82426	30.00000	Averaged
	30 Ethylbenzene	1.11981	1.23045	0.010	-9.88027	30.00000	Averaged
	31 Xylene (m,p)	0.41015	0.44603	0.010	-8.74699	30.00000	Averaged
	32 Styrene	0.54163	0.60921	0.010	-12.47761	30.00000	Averaged
M	33 Xylene (total)	1.22099	1.33341	0.010	-9.20793	30.00000	Averaged
	34 1,1,2,2-Tetrachloroethane	0.68598	0.78051	0.010	-13.78109	30.00000	Averaged
	35 Xylene (o)	0.40068	0.44136	0.010	-10.15162	30.00000	Averaged
	38 1,3-Dichlorobenzene	0.62128	0.67300	0.010	-8.32538	30.00000	Averaged
	39 1,4-Dichlorobenzene	0.63897	0.71021	0.010	-11.14900	30.00000	Averaged
	40 1,2-Dichlorobenzene	0.53120	0.60382	0.010	-13.67177	30.00000	Averaged

METHOD TO-14A
VOLATILE ORGANIC ANALYSIS

RAW QC DATA

Data File: /chem/W.i/Wsvr.p/wcbto14.b/cb001p.d

Date : 10-JUL-2000 08:31

Client ID: WBFB001

Instrument: W.i

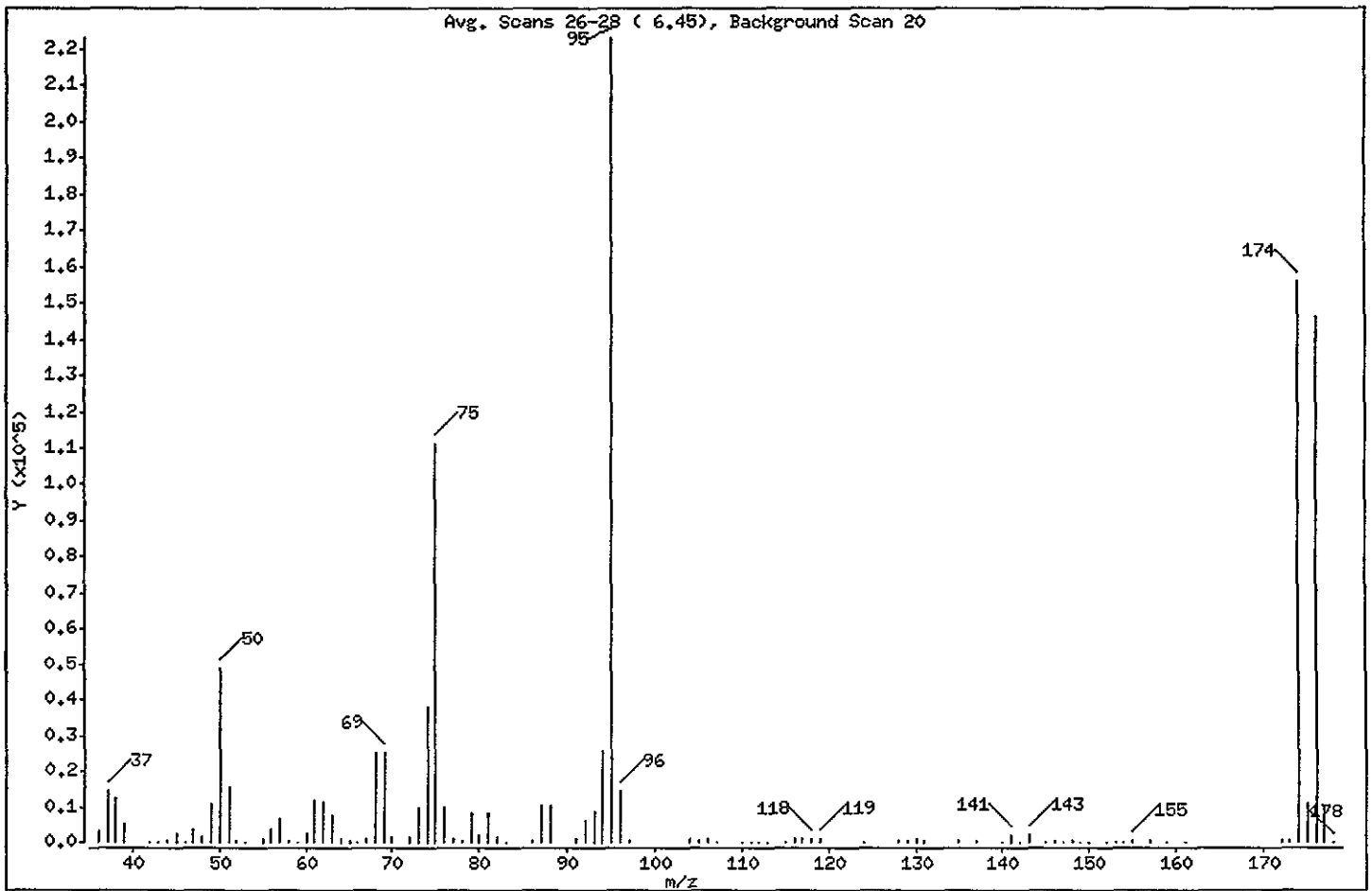
Sample Info: WBFB001

Operator: GMH

Column phase: DB-1

Column diameter: 0.32

$ 1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	8.00 - 40.00% of mass 95	21.96
75	30.00 - 66.00% of mass 95	49.76
96	5.00 - 9.00% of mass 95	6.55
173	Less than 2.00% of mass 174	0.15 (0.21)
174	50.00 - 120.00% of mass 95	69.80
175	4.00 - 9.00% of mass 174	4.90 (7.01)
176	93.00 - 101.00% of mass 174	65.49 (93.83)
177	5.00 - 9.00% of mass 176	4.48 (6.84)

Data File: /chem/W.i/Wsvr.p/wcbto14.b/cb001p.d

Date : 10-JUL-2000 08:31

Client ID: WBFB001 Instrument: W.i

Sample Info: WBFB001

Operator: GMM

Column phase: DB-1 Column diameter: 0.32

Data File: cb001p.d
Spectrum: Avg. Scans 26-28 (6.45), Background Scan 20
Location of Maximum: 95.00
Number of points: 98

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	2861	64.00	785	94.00	25552	141.00	1851
37.00	14383	65.00	499	95.00	223104	142.00	118
38.00	12115	66.00	150	96.00	14620	143.00	1934
39.00	5050	67.00	782	97.00	346	145.00	111
42.00	12	68.00	25048	104.00	959	146.00	346
43.00	154	69.00	25400	105.00	317	147.00	149
44.00	580	70.00	1684	106.00	903	148.00	440
45.00	2434	72.00	1298	107.00	233	149.00	101
46.00	223	73.00	9910	110.00	143	150.00	195
47.00	3418	74.00	38120	111.00	149	152.00	61
48.00	1601	75.00	111016	112.00	56	153.00	68
49.00	10873	76.00	9914	113.00	223	154.00	57
50.00	49000	77.00	1231	115.00	181	155.00	367
51.00	15585	78.00	723	116.00	806	157.00	334
52.00	683	79.00	7993	117.00	844	159.00	219
53.00	73	80.00	2197	118.00	908	161.00	232
55.00	774	81.00	8118	119.00	1083	172.00	444
56.00	3538	82.00	1377	124.00	66	173.00	326
57.00	6819	83.00	214	128.00	768	174.00	155712
58.00	319	86.00	284	129.00	331	175.00	10922
59.00	51	87.00	10473	130.00	889	176.00	146112
60.00	2393	88.00	10156	131.00	349	177.00	9988
61.00	11691	91.00	792	135.00	354	178.00	233
62.00	11071	92.00	6074	137.00	396		
63.00	7622	93.00	8858	140.00	61		

Data File: /chem/W.i/Wsvr.p/wcbto14.b/cb001p.d

Date : 10-JUL-2000 03:31

Client ID: WBFB001

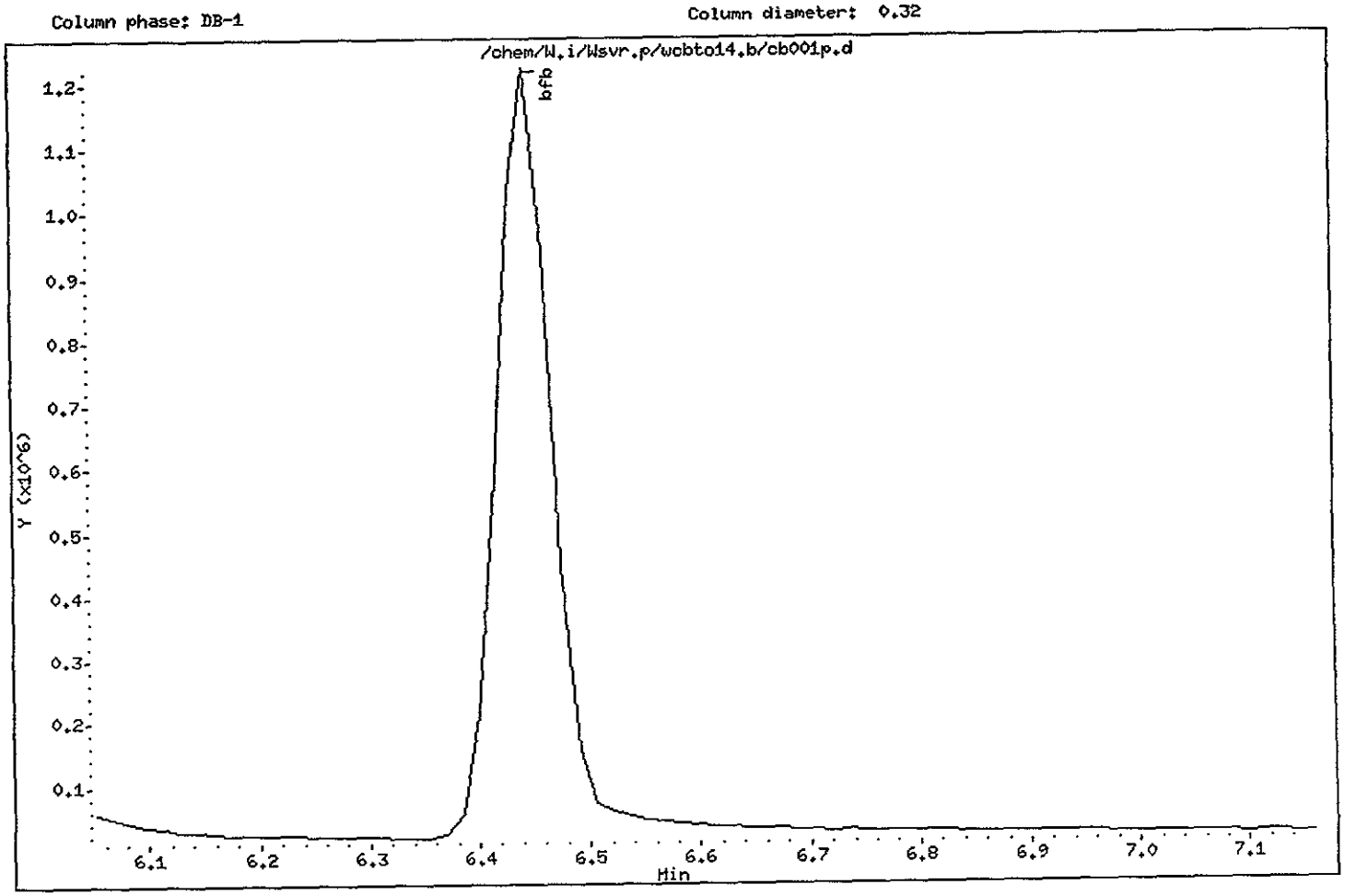
Instrument: W.i

Sample Info: WBFB001

Operator: GMM

Column phase: DB-1

Column diameter: 0.32



Data File: /chem/W.i/Wsvr.p/wcbito14.b/cb009p.d

Date : 28-JUL-2000 06:26

Client ID: WBFB009

Instrument: W.i

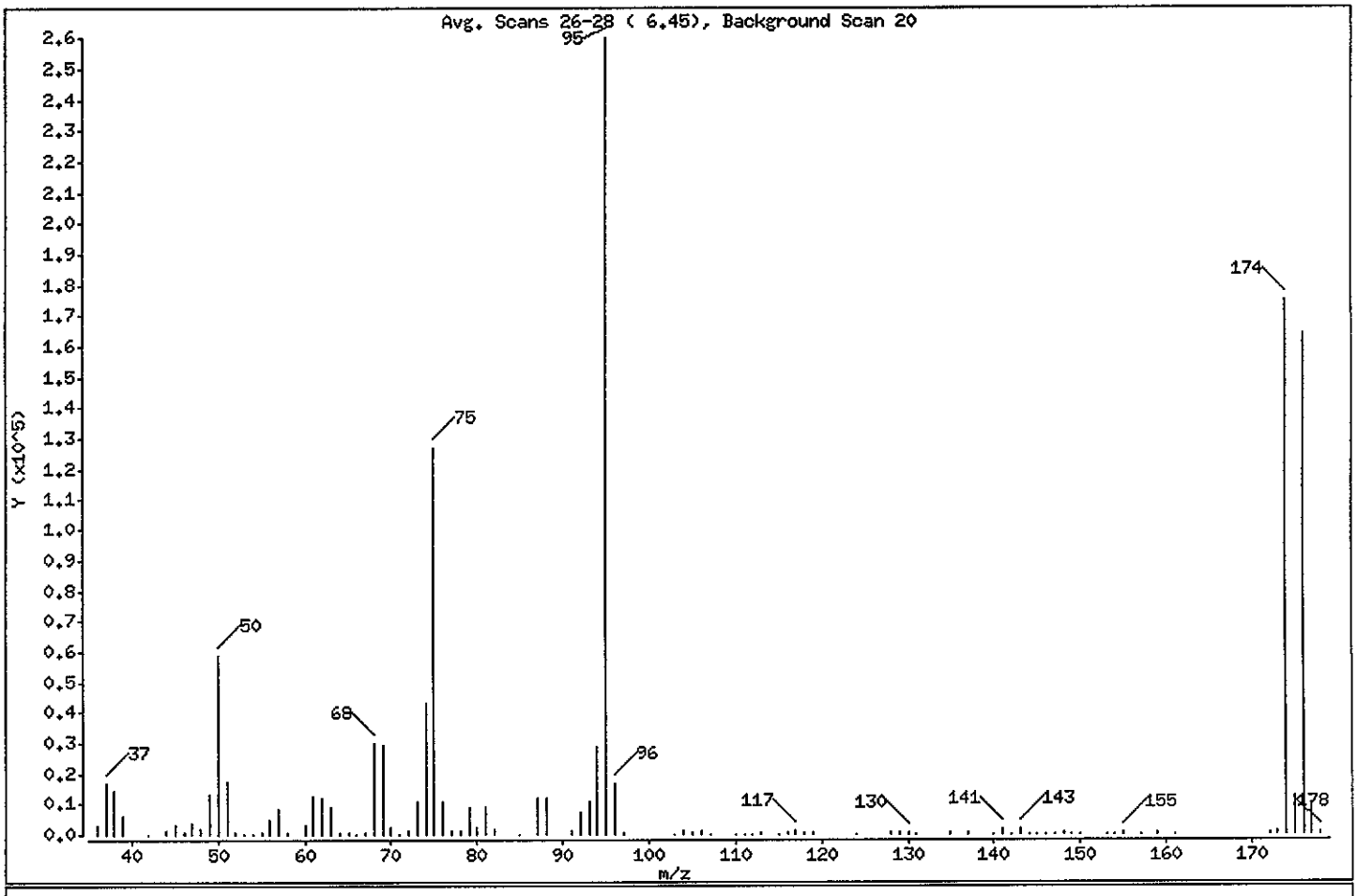
Sample Info: WBFB009

Operator: GMM

Column phase: DB-1

Column diameter: 0.32

$ 1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	8.00 - 40.00% of mass 95	22.51
75	30.00 - 66.00% of mass 95	48.94
96	5.00 - 9.00% of mass 95	6.55
173	Less than 2.00% of mass 174	0.48 (0.72)
174	50.00 - 120.00% of mass 95	67.20
175	4.00 - 9.00% of mass 174	4.75 (7.06)
176	93.00 - 101.00% of mass 174	63.18 (94.01)
177	5.00 - 9.00% of mass 176	3.97 (6.28)

Data File: /chem/W.i/Wsvr.p/wcbito14.b/cb009p.d

Date : 28-JUL-2000 06:26

Client ID: WBFB009 Instrument: W.i

Sample Info: WBFB009

Operator: GMM

Column phase: DB-1 Column diameter: 0.32

Data File: cb009p.d
Spectrum: Avg. Scans 26-28 (6.45), Background Scan 20
Location of Maximum: 95.00
Number of points: 100

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	3182	66.00	23	95.00	260096	142.00	289
37.00	16712	67.00	777	96.00	17024	143.00	1896
38.00	14528	68.00	29904	97.00	557	144.00	66
39.00	6213	69.00	29312	103.00	74	145.00	207
42.00	72	70.00	2169	104.00	1111	146.00	293
44.00	909	71.00	54	105.00	436	147.00	73
45.00	2776	72.00	1457	106.00	979	148.00	577
46.00	323	73.00	11082	107.00	204	149.00	59
47.00	3784	74.00	43344	110.00	226	150.00	234
48.00	1965	75.00	127288	111.00	253	153.00	75
49.00	12912	76.00	11002	112.00	137	154.00	77
50.00	58552	77.00	1224	113.00	301	155.00	407
51.00	17608	78.00	1057	115.00	134	157.00	298
52.00	442	79.00	8748	116.00	770	159.00	305
53.00	48	80.00	2236	117.00	1171	161.00	155
54.00	166	81.00	8809	118.00	879	172.00	458
55.00	658	82.00	1605	119.00	852	173.00	1256
56.00	4750	83.00	246	124.00	66	174.00	174784
57.00	8326	85.00	59	128.00	831	175.00	12345
58.00	339	86.00	253	129.00	415	176.00	164288
60.00	2706	87.00	12207	130.00	894	177.00	10316
61.00	12844	88.00	12156	131.00	285	178.00	327
62.00	12221	91.00	1289	135.00	349		
63.00	9118	92.00	7284	137.00	388		
64.00	762	93.00	10661	140.00	140		
65.00	460	94.00	28656	141.00	1800		

Data File: /chem/W.i/Wsvr.p/wcbito14.b/cb009p.d

Date : 28-JUL-2000 06:26

Client ID: WBFB009

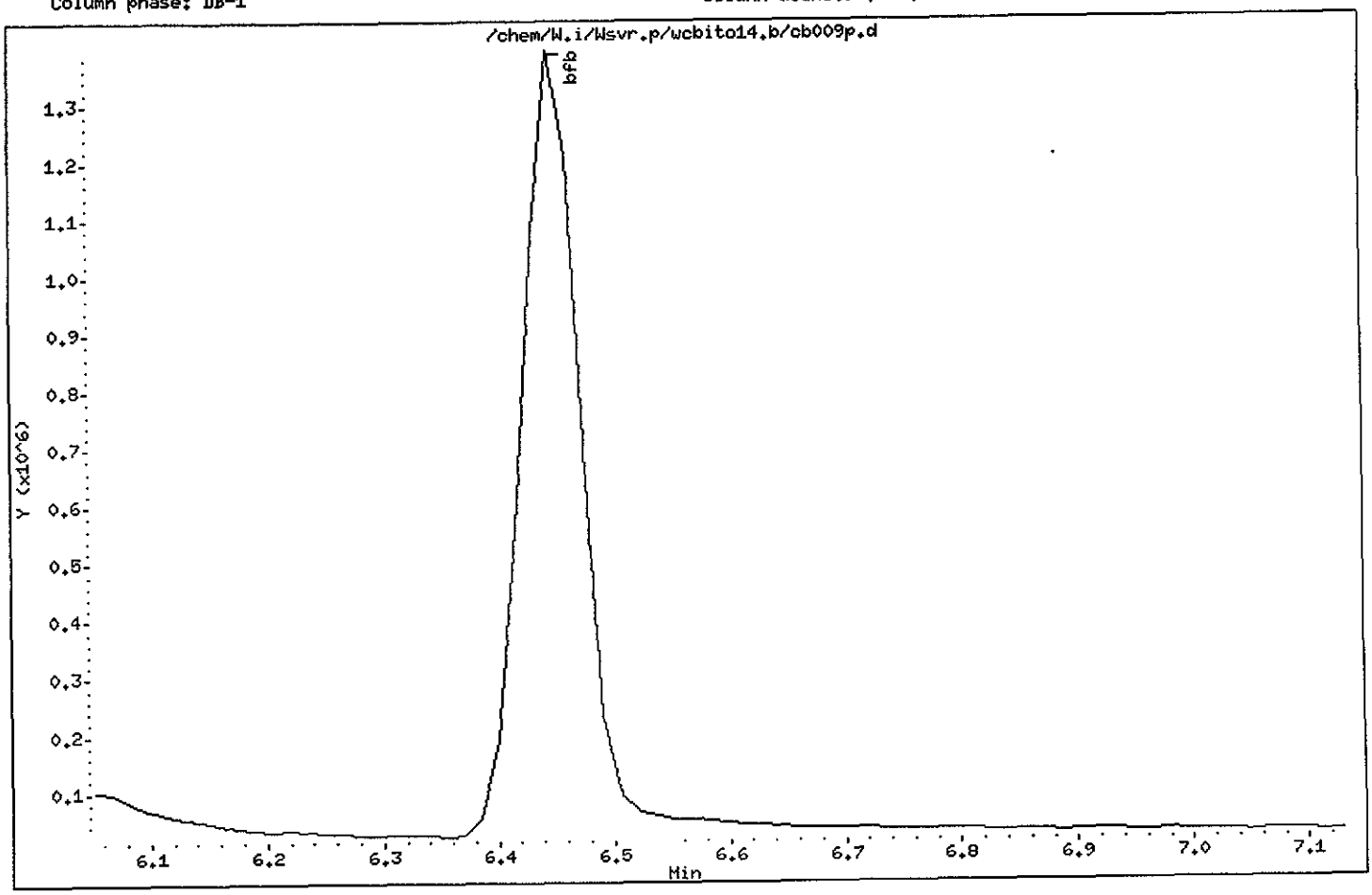
Instrument: W.i

Sample Info: WBFB009

Operator: GMM

Column phase: DB-1

Column diameter: 0.32



FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ABLKR5

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 79113

Matrix: (soil/water) AIR Lab Sample ID: ABLKR5

Sample wt/vol: 200 (g/mL) ML Lab File ID: CBB001I

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

% Moisture: not dec. _____ Date Analyzed: 07/28/00

GC Column: DB-1 ID: 0.35 (mm) Dilution Factor: 1.0

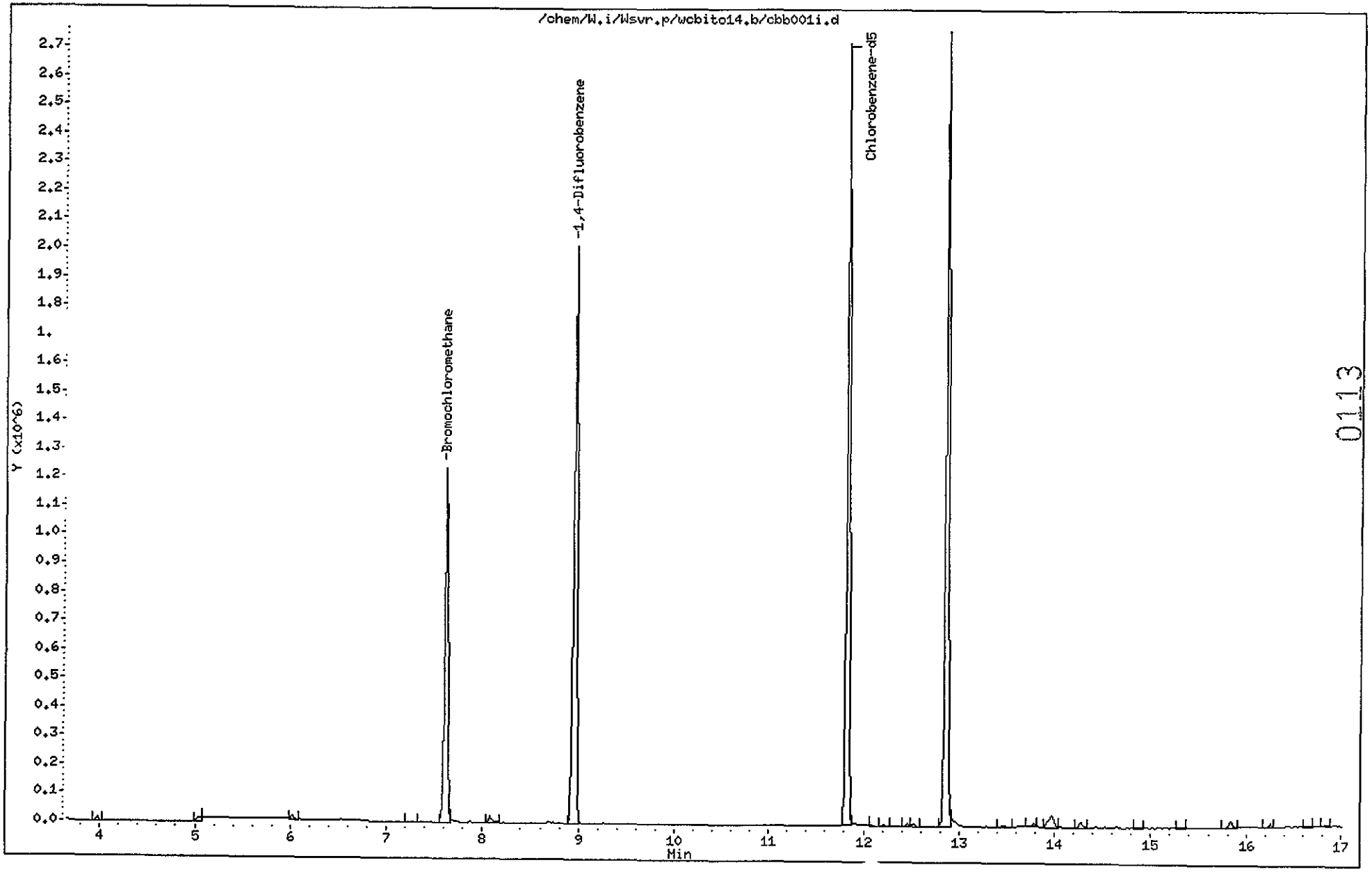
Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) PPBV	Q
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl Chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-09-2	Methylene Chloride	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
56-23-5	Carbon Tetrachloride	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-88-3	Toluene	0.50	U
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
1330-20-7	Xylene (total)	0.50	U
100-42-5	Styrene	0.50	U
1330-20-7	Xylene (m,p)	0.50	U
95-47-6	Xylene (o)	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U

Data File: /chem/W.i/Wsvr.p/wcbito14.b/cbb001i.d
Date : 28-JUL-2000 07:56
Client ID: ABLKR5
Sample Info: ABLKR5;ABLKR5;;0728R5
Purge Volume: 200.0
Column phase: DB-1

Instrument: W.i

Operator: GMM
Column diameter: 0.35



STL Burlington

AIR TOXICS QUANTITATION REPORT

Data file : /chem/W.i/Wsvr.p/wcbito14.b/cbb001i.d
Lab Smp Id: ABLKR5 Client Smp ID: ABLKR5
Inj Date : 28-JUL-2000 07:56
Operator : GMM Inst ID: W.i
Smp Info : ABLKR5;ABLKR5;;0728R5
Misc Info :
Comment :
Method : /chem/W.i/Wsvr.p/wcbito14.b/ato14.m
Meth Date : 31-Jul-2000 20:19 cpc Quant Type: ISTD
Cal Date : 10-JUL-2000 13:37 Cal File: cb0005i2.d
Als bottle: 1 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ACCANA.sub
Target Version: 3.50
Processing Host: chemsvr4

Concentration Formula: Amt * DF * X* Uf/Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
X	200.00000	method volume factor
Uf	1.00000	ng unit correction factor
Vo	200.00000	Sample Volume purged (mL)

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	FINAL (ppbv)
	2 Chloromethane	50	Compound Not Detected.					
	4 Vinyl Chloride	62	Compound Not Detected.					
	5 Bromomethane	94	Compound Not Detected.					
	6 Chloroethane	64	Compound Not Detected.					
	7 Trichlorofluoromethane	101	Compound Not Detected.					
	9 Methylene Chloride	49	Compound Not Detected.					
	11 1,1-Dichloroethane	63	Compound Not Detected.					
*	13 Bromochloromethane	128	7.606	7.638	(1.000)	378092	10.0000	
	14 Chloroform	83	Compound Not Detected.					
	15 1,2-Dichloroethane	62	Compound Not Detected.					
	16 1,1,1-Trichloroethane	97	Compound Not Detected.					
	17 Benzene	78	Compound Not Detected.					
	18 Carbon Tetrachloride	117	Compound Not Detected.					
*	19 1,4-Difluorobenzene	114	8.957	8.973	(1.000)	1814347	10.0000	
	20 1,2-Dichloropropane	63	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)
	21 Trichloroethene	95	Compound Not Detected.					
	22 cis-1,3-Dichloropropene	75	Compound Not Detected.					
	23 trans-1,3-Dichloropropene	75	Compound Not Detected.					
	24 1,1,2-Trichloroethane	83	Compound Not Detected.					
	25 Toluene	92	Compound Not Detected.					
	27 Tetrachloroethene	166	Compound Not Detected.					
*	28 Chlorobenzene-d5	117	11.825	11.841	(1.000)	1764024	10.0000	
	29 Chlorobenzene	112	Compound Not Detected.					
	30 Ethylbenzene	91	Compound Not Detected.					
	31 Xylene (m,p)	106	Compound Not Detected.					
	32 Styrene	104	Compound Not Detected.					
M	33 Xylene (total)	106	Compound Not Detected.					
	34 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					
	35 Xylene (o)	106	Compound Not Detected.					
	38 1,3-Dichlorobenzene	146	Compound Not Detected.					
	39 1,4-Dichlorobenzene	146	Compound Not Detected.					
	40 1,2-Dichlorobenzene	146	Compound Not Detected.					

STL Burlington

AIR TOXICS QUANTITATION REPORT

Data file : /chem/W.i/Wsvr.p/wcbito14.b/cbb001i.d
Lab Smp Id: ABLKR5 Client Smp ID: ABLKR5
Inj Date : 28-JUL-2000 07:56
Operator : GMM Inst ID: W.i
Smp Info : ABLKR5;ABLKR5;;0728R5
Misc Info :
Comment :
Method : /chem/W.i/Wsvr.p/wcbito14.b/ato14.m
Meth Date : 31-Jul-2000 20:19 cpc Quant Type: ISTD
Cal Date : 10-JUL-2000 13:37 Cal File: cb0005i2.d
Als bottle: 1 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ACCANA.sub
Target Version: 3.50
Processing Host: chemsvr4

- NO TENTATIVELY IDENTIFIED COMPOUNDS -

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ICV_LCS

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 79113

Matrix: (soil/water) AIR Lab Sample ID: ICV_LCS

Sample wt/vol: 200 (g/mL) ML Lab File ID: CB010Q

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

% Moisture: not dec. _____ Date Analyzed: 07/10/00

GC Column: DB-1 ID: 0.35 (mm) Dilution Factor: 1.0

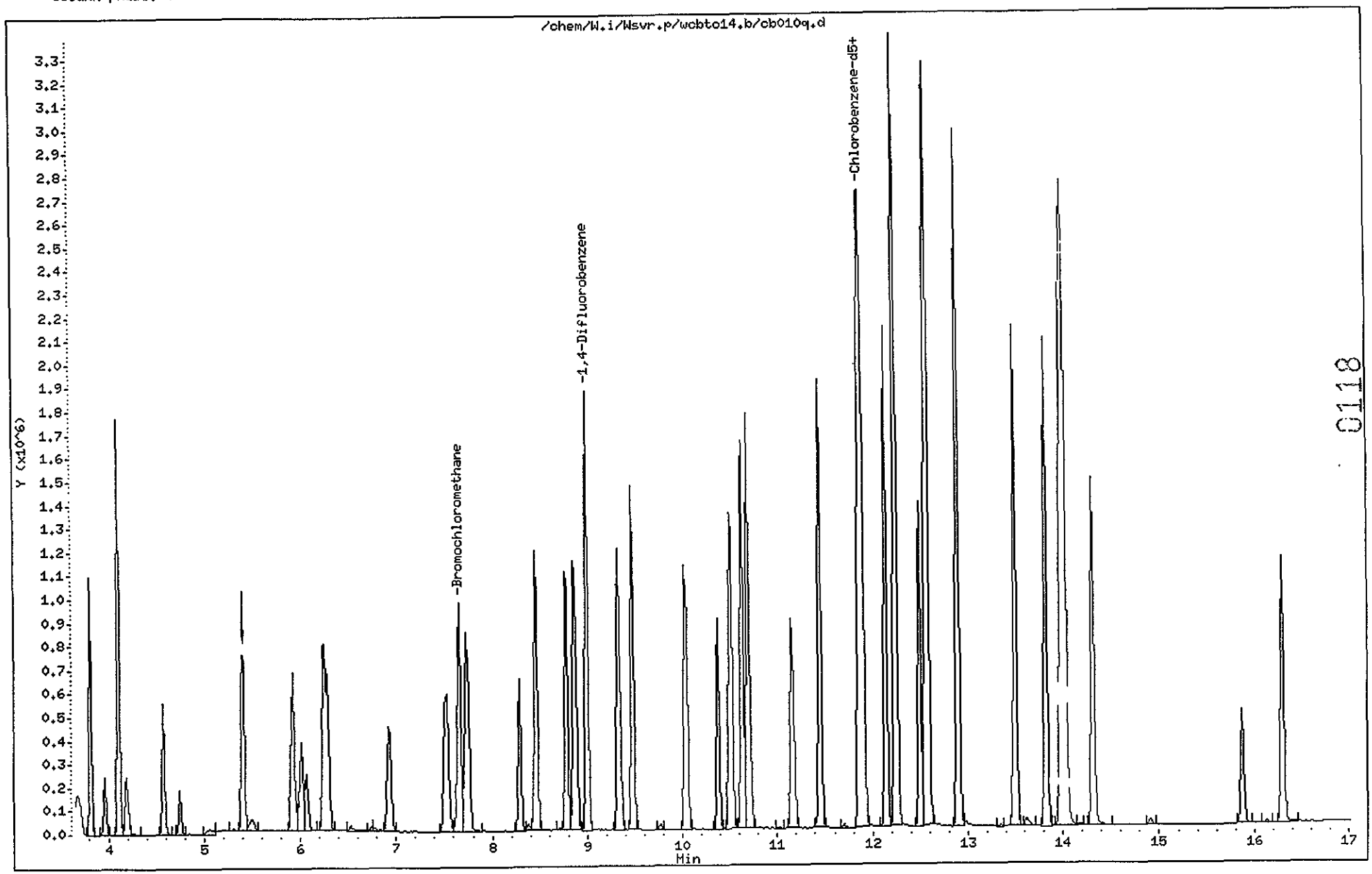
Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) PPBV	Q
74-87-3	Chloromethane	11	
75-01-4	Vinyl Chloride	11	
74-83-9	Bromomethane	10	
75-00-3	Chloroethane	11	
75-69-4	Trichlorofluoromethane	10	
75-09-2	Methylene Chloride	10	
75-34-3	1,1-Dichloroethane	11	
67-66-3	Chloroform	11	
71-55-6	1,1,1-Trichloroethane	11	
56-23-5	Carbon Tetrachloride	10	
71-43-2	Benzene	10	
107-06-2	1,2-Dichloroethane	10	
79-01-6	Trichloroethene	10	
78-87-5	1,2-Dichloropropane	10	
10061-01-5	cis-1,3-Dichloropropene	11	
108-88-3	Toluene	9.3	
10061-02-6	trans-1,3-Dichloropropene	11	
79-00-5	1,1,2-Trichloroethane	10	
127-18-4	Tetrachloroethene	9.2	
108-90-7	Chlorobenzene	9.0	
100-41-4	Ethylbenzene	9.4	
1330-20-7	Xylene (total)	28	
100-42-5	Styrene	8.8	
1330-20-7	Xylene (m,p)	18	
95-47-6	Xylene (o)	9.3	
79-34-5	1,1,2,2-Tetrachloroethane	9.3	
541-73-1	1,3-Dichlorobenzene	9.0	
106-46-7	1,4-Dichlorobenzene	8.0	
95-50-1	1,2-Dichlorobenzene	8.6	

Data File: /chem/W.i/Wsvr.p/wcbto14.b/cb010q.d
Date : 10-JUL-2000 14:18
Client ID: ICV_LCS
Sample Info: ICV_LCS
Purge Volume: 200.0
Column phase: DB-1

Instrument: W.i

Operator: GMM
Column diameter: 0.35



STL Burlington

AIR TOXICS QUANTITATION REPORT

Data file : /chem/W.i/Wsvr.p/wcbto14.b/cb010q.d
Lab Smp Id: ICV_LCS Client Smp ID: ICV_LCS
Inj Date : 10-JUL-2000 14:18
Operator : GMM Inst ID: W.i
Smp Info : ICV_LCS
Misc Info :
Comment :
Method : /chem/W.i/Wsvr.p/wcbto14.b/ato14.m
Meth Date : 24-Jul-2000 14:59 cpc Quant Type: ISTD
Cal Date : 10-JUL-2000 13:37 Cal File: cb0005i2.d
Als bottle: 1 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ACCANA.sub
Target Version: 3.50
Processing Host: chemsvr4

Concentration Formula: Amt * DF * X* Uf/Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
X	200.00000	method volume factor
Uf	1.00000	ng unit correction factor
Vo	200.00000	Sample Volume purged (mL)

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	FINAL (ppbv)
	2 Chloromethane	50	3.968	3.957	(0.518)	252641	10.6928	11
	4 Vinyl Chloride	62	4.199	4.188	(0.548)	283872	11.1176	11
	5 Bromomethane	94	4.574	4.563	(0.597)	345487	10.4870	10
	6 Chloroethane	64	4 747	4.750	(0.619)	162016	10.8519	11
	7 Trichlorofluoromethane	101	5.405	5.406	(0.705)	842029	9.98110	10
	9 Methylene Chloride	49	6.012	6.028	(0.784)	380686	9.99786	10
	11 1,1-Dichloroethane	63	6.923	6.923	(0.903)	665983	10.8506	11
*	13 Bromochloromethane	128	7.666	7.652	(1.000)	325966	10.0000	
	14 Chloroform	83	7.742	7.743	(1.010)	841741	10.7639	11
	15 1,2-Dichloroethane	62	8.288	8.274	(1.081)	572106	10.4315	10
	16 1,1,1-Trichloroethane	97	8.455	8.456	(1.103)	801047	10.7122	11
	17 Benzene	78	8.789	8.775	(0.976)	1128233	10.4389	10
	18 Carbon Tetrachloride	117	8.880	8.866	(0.986)	816917	10.4034	10
*	19 1,4-Difluorobenzene	114	9.002	9.002	(1.000)	1578858	10.0000	

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	FINAL (ppbv)
	20 1,2-Dichloropropane	63	9.336	9.321	(1.037)	436205	10.5448	10
	21 Trichloroethene	95	9.472	9.473	(1.052)	523509	10.5273	10
	22 cis-1,3-Dichloropropene	75	10.034	10.034	(1.115)	723401	11.1658	11
	23 trans-1,3-Dichloropropene	75	10.383	10.368	(1.153)	567691	11.2488	11
	24 1,1,2-Trichloroethane	83	10.504	10.505	(1.167)	451050	10.4388	10
	25 Toluene	92	10.701	10.702	(0.902)	868870	9.33592	9.3
	27 Tetrachloroethene	166	11.445	11.446	(0.964)	637647	9.16969	9.2
*	28 Chlorobenzene-d5	117	11.870	11.871	(1.000)	1857258	10.0000	
	29 Chlorobenzene	112	11.900	11.901	(1.003)	1082756	9.00123	9.0
	30 Ethylbenzene	91	12.143	12.144	(1.023)	1955270	9.40133	9.4
	31 Xylene (m,p)	106	12.249	12.250	(1.032)	1402693	18.4138	18
	32 Styrene	104	12.507	12.508	(1.054)	888598	8.83356	8.8
M	33 Xylene (total)	106				2096717	27.7401	28
	34 1,1,2,2-Tetrachloroethane	83	12.568	12.569	(1.059)	1190191	9.34187	9.3
	35 Xylene (o)	106	12.583	12.584	(1.060)	694024	9.32625	9.3
	38 1,3-Dichlorobenzene	146	13.979	13.980	(1.178)	1036147	8.97972	9.0
	39 1,4-Dichlorobenzene	146	14.025	14.041	(1.182)	952531	8.02649	8.0
	40 1,2-Dichlorobenzene	146	14.313	14.329	(1.206)	852240	8.63839	8.6

STL Burlington

RECOVERY REPORT

Client Name:
Sample Matrix: GAS
Lab Smp Id: ICV_LCS
Level: LOW
Data Type: MS DATA
SpikeList File: ACCANA.spk
Sublist File: ACCANA.sub
Method File: /chem/W.i/Wsvr.p/wcbto14.b/ato14.m
Misc Info:

Client SDG: 79113
Fraction: VOA
Client Smp ID: ICV_LCS
Operator: GMM
SampleType: LCS
Quant Type: ISTD

SPIKE	COMPOUND	CONC ADDED ppbv	CONC RECOVERED ppbv	% RECOVERED	LIMITS
2	Chloromethane	10	11	106.93	70-130
4	Vinyl Chloride	10	11	111.18	70-130
5	Bromomethane	10	10	104.87	70-130
6	Chloroethane	10	11	108.52	70-130
7	Trichlorofluoromet	10	10	99.81	70-130
9	Methylene Chloride	10	10	99.98	70-130
11	1,1-Dichloroethane	10	11	108.51	70-130
14	Chloroform	10	11	107.64	70-130
15	1,2-Dichloroethane	10	10	104.32	70-130
16	1,1,1-Trichloroeth	10	11	107.12	70-130
17	Benzene	10	10	104.39	70-130
18	Carbon Tetrachlori	10	10	104.03	70-130
20	1,2-Dichloropropan	10	10	105.45	70-130
21	Trichloroethene	10	10	105.27	70-130
22	cis-1,3-Dichloropr	10	11	111.66	70-130
23	trans-1,3-Dichloro	10	11	112.49	70-130
24	1,1,2-Trichloroeth	10	10	104.39	70-130
25	Toluene	10	9.3	93.36	70-130
27	Tetrachloroethene	10	9.2	91.70	70-130
29	Chlorobenzene	10	9.0	90.01	70-130
30	Ethylbenzene	10	9.4	94.01	70-130
31	Xylene (m,p)	20	18	92.07	70-130
32	Styrene	10	8.8	88.34	70-130
34	1,1,2,2-Tetrachlor	10	9.3	93.42	70-130
35	Xylene (o)	10	9.3	93.26	70-130
38	1,3-Dichlorobenzen	10	9.0	89.80	70-130
39	1,4-Dichlorobenzen	10	8.0	80.26	70-130
40	1,2-Dichlorobenzen	10	8.6	86.38	70-130

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

R5_LCS

Lab Name: STL [illegible]RLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 79113

Matrix: (soil/water) AIR Lab Sample ID: R5_LCS

Sample wt/vol: 200 (g/mL) ML Lab File ID: CB010IQ

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

% Moisture: not dec. _____ Date Analyzed: 07/28/00

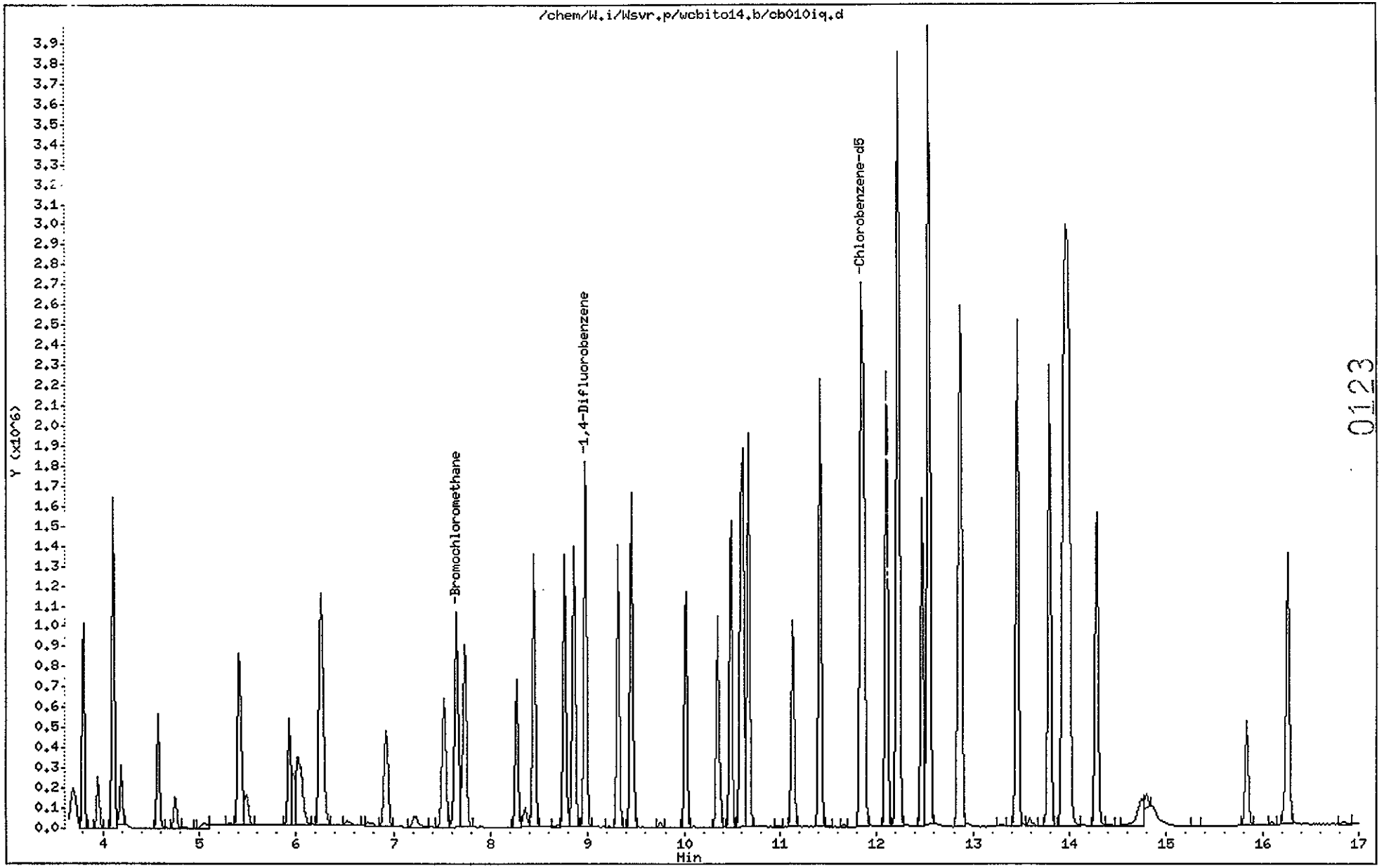
GC Column: DB-1 ID: 0.35 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) PPBV	Q
74-87-3	Chloromethane	11	
75-01-4	Vinyl Chloride	12	
74-83-9	Bromomethane	11	
75-00-3	Chloroethane	12	
75-69-4	Trichlorofluoromethane	12	
75-09-2	Methylene Chloride	11	
75-34-3	1,1-Dichloroethane	12	
67-66-3	Chloroform	12	
71-55-6	1,1,1-Trichloroethane	12	
56-23-5	Carbon Tetrachloride	11	
71-43-2	Benzene	11	
107-06-2	1,2-Dichloroethane	12	
79-01-6	Trichloroethene	11	
78-87-5	1,2-Dichloropropane	12	
10061-01-5	cis-1,3-Dichloropropene	12	
108-88-3	Toluene	12	
10061-02-6	trans-1,3-Dichloropropene	12	
79-00-5	1,1,2-Trichloroethane	11	
127-18-4	Tetrachloroethene	11	
108-90-7	Chlorobenzene	11	
100-41-4	Ethylbenzene	12	
1330-20-7	Xylene (total)	35	
100-42-5	Styrene	11	
1330-20-7	Xylene (m,p)	23	
95-47-6	Xylene (o)	12	
79-34-5	1,1,2,2-Tetrachloroethane	12	
541-73-1	1,3-Dichlorobenzene	10	
106-46-7	1,4-Dichlorobenzene	11	
95-50-1	1,2-Dichlorobenzene	11	

Data File: /chem/W.i/Wsvr.p/wcbito14.b/cb010iq.d
Date : 28-JUL-2000 07:24
Client ID: R5_LCS
Sample Info: R5_LCS
Purge Volume: 200.0
Column phase: DB-1

Instrument: W.i
Operator: GMM
Column diameter: 0.35



STL Burlington

AIR TOXICS QUANTITATION REPORT

Data file : /chem/W.i/Wsvr.p/wcbito14.b/cb010iq.d
Lab Smp Id: R5_LCS Client Smp ID: R5_LCS
Inj Date : 28-JUL-2000 07:24
Operator : GMM Inst ID: W.i
Smp Info : R5_LCS
Misc Info :
Comment :
Method : /chem/W.i/Wsvr.p/wcbito14.b/ato14.m
Meth Date : 31-Jul-2000 20:19 cpc Quant Type: ISTD
Cal Date : 10-JUL-2000 13:37 Cal File: cb0005i2.d
Als bottle: 1 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ACCANA.sub
Target Version: 3.50
Processing Host: chemsvr4

Concentration Formula: Amt * DF * X* Uf/Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
X	200.00000	method volume factor
Uf	1.00000	ng unit correction factor
Vo	200.00000	Sample Volume purged (mL)

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	FINAL (ppbv)
	2 Chloromethane	50	3.954	3.944	(0.517)	268085	11.2216	11
	4 Vinyl Chloride	62	4 185	4.175	(0.547)	300317	11.6324	12
	5 Bromomethane	94	4.574	4 564	(0.598)	376330	11.2976	11
	6 Chloroethane	64	4.747	4.737	(0.620)	174019	11.5278	12
	7 Trichlorofluoromethane	101	5.406	5.407	(0.706)	1019989	11.9577	12(M)
	9 Methylene Chloride	49	6.028	6.014	(0.788)	425196	11.0441	11
	11 1,1-Dichloroethane	63	6.923	6.909	(0.905)	730737	11.7748	12
*	13 Bromochloromethane	128	7.652	7.638	(1.000)	329587	10.0000	
	14 Chloroform	83	7.728	7.729	(1.010)	934289	11.8161	12
	15 1,2-Dichloroethane	62	8.274	8 260	(1.081)	651343	11.7458	12
	16 1,1,1-Trichloroethane	97	8.441	8.442	(1.103)	891972	11.7970	12
	17 Benzene	78	8.760	8.761	(0.975)	1225695	11.2481	11
	18 Carbon Tetrachloride	117	8 851	8.852	(0.985)	898991	11.3551	11
*	19 1,4-Difluorobenzene	114	8.987	8.973	(1.000)	1591854	10.0000	

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	FINAL (ppbv)
	20 1,2-Dichloropropane	63	9.306	9.307	(1.035)	484789	11.6235	12
	21 Trichloroethene	95	9.458	9.443	(1.052)	576528	11.4987	11
	22 cis-1,3-Dichloropropene	75	10.019	10.005	(1.115)	781291	11.9608	12
	23 trans-1,3-Dichloropropene	75	10.353	10.354	(1.152)	613986	12.0008	12
	24 1,1,2-Trichloroethane	83	10.490	10.475	(1.167)	492742	11.3105	11
	25 Toluene	92	10.672	10.673	(0.901)	944747	11.7252	12
	27 Tetrachloroethene	166	11.415	11.416	(0.964)	688840	11.4418	11
*	28 Chlorobenzene-d5	117	11.840	11.841	(1.000)	1607941	10.0000	
	29 Chlorobenzene	112	11.871	11.872	(1.003)	1179862	11.3293	11
	30 Ethylbenzene	91	12.098	12.099	(1.022)	2121587	11.7827	12
	31 Xylene (m,p)	106	12.220	12.221	(1.032)	1517877	23.0155	23
	32 Styrene	104	12.463	12.463	(1.053)	1001304	11.4973	11
M	33 Xylene (total)	106				2280354	34.8503	35
	34 1,1,2,2-Tetrachloroethane	83	12.538	12.539	(1.059)	1324781	12.0106	12
	35 Xylene (o)	106	12.554	12.539	(1.060)	762477	11.8348	12
	38 1,3-Dichlorobenzene	146	13.935	13.935	(1.177)	1034296	10.3535	10
	39 1,4-Dichlorobenzene	146	13.995	13.996	(1.182)	1103199	10.7375	11
	40 1,2-Dichlorobenzene	146	14.284	14.285	(1.206)	924708	10.8262	11

QC Flag Legend

M - Compound response manually integrated.

QC 7/31/00

STL Burlington

RECOVERY REPORT

Client Name:
Sample Matrix: GAS
Lab Smp Id: R5_LCS
Level: LOW
Data Type: MS DATA
SpikeList File: ACCANA.spk
Sublist File: ACCANA.sub
Method File: /chem/W.i/Wsvr.p/wcbito14.b/ato14.m
Misc Info:

Client SDG: 79066
Fraction: VOA
Client Smp ID: R5_LCS
Operator: GMM
SampleType: LCS
Quant Type: ISTD

SPIKE	COMPOUND	CONC ADDED ppbv	CONC RECOVERED ppbv	% RECOVERED	LIMITS
2	Chloromethane	10	11	112.22	70-130
4	Vinyl Chloride	10	12	116.32	70-130
5	Bromomethane	10	11	112.98	70-130
6	Chloroethane	10	12	115.28	70-130
7	Trichlorofluoromet	10	12	119.58	70-130
9	Methylene Chloride	10	11	110.44	70-130
11	1,1-Dichloroethane	10	12	117.75	70-130
14	Chloroform	10	12	118.16	70-130
15	1,2-Dichloroethane	10	12	117.46	70-130
16	1,1,1-Trichloroeth	10	12	117.97	70-130
17	Benzene	10	11	112.48	70-130
18	Carbon Tetrachlori	10	11	113.55	70-130
20	1,2-Dichloropropan	10	12	116.24	70-130
21	Trichloroethene	10	11	114.99	70-130
22	cis-1,3-Dichloropr	10	12	119.61	70-130
23	trans-1,3-Dichloro	10	12	120.67	70-130
24	1,1,2-Trichloroeth	10	11	113.11	70-130
25	Toluene	10	12	117.25	70-130
27	Tetrachloroethene	10	11	114.42	70-130
29	Chlorobenzene	10	11	113.29	70-130
30	Ethylbenzene	10	12	117.83	70-130
31	Xylene (m,p)	20	23	115.08	70-130
32	Styrene	10	11	114.97	70-130
34	1,1,2,2-Tetrachlor	10	12	120.11	70-130
35	Xylene (o)	10	12	118.35	70-130
38	1,3-Dichlorobenzen	10	10	103.54	70-130
39	1,4-Dichlorobenzen	10	11	107.37	70-130
40	1,2-Dichlorobenzen	10	11	108.26	70-130

SAMPLE PREPARATION

Severn Trent Laboratories-VT
Instrument Run Log
Instrument W

Batch: wcht014
Opened: 7 / 10 / 00 **Time:** 0831
Closed: 7 / 11 / 00 **Time:** 0831

ETR # _____ SDG # _____

Tune: ✓
ISTD Tag #: 01-1388

Temp 19.5 °C B P.: 29.45 "Hg

INJ. TIME	LAB ID	CAN ID #	CLIENT ID	ETR #	INLET #	SAMPLE VOLUME (mL)	DILUTION FACTOR	ISTD RECOVERY	CONC.	ANALYST	COMMENTS
0831	cb001p	n/a	WBFB:01	n/a	n/a	n/a	n/a	n/a	✓	GMM	
0948	cb0005	EXP2	AS0005		2	20		✓	✓		IPTO710 0003
1021	cb0005	EXP1	005		3	25		✓	✓		IPTO71000101
1055	cb010		010		3	50		✓	✓		
1131	cb020		020		3	100		✓	✓		
1208	cb040		040		3	200		✓	✓		
1337	cb0005i2	EXP2	AS1/0005		4	20		✓	✓		
1418	cb010g	6042	ICV		2	200		✓	✓		ATO71000103
1453	cb6001	#32	A1BLKD4		4	200		✓	✓		
1823	cb024	6024	Patch Cal	n/a	4	200	n/a	✓	✓	GMM	

GMM 071100

Severn Trent Laboratories-VT
Instrument Run Log
Instrument W

Batch: wcb1t014
Opened: 7 / 28 / 00 **Time:** 0626
Closed: 7 / 29 / 00 **Time:** 0021

ETR #	SDG #
79066	79066
79092	AT014
79113	79113

Tune: ✓
ISTD Tag #: 01-1388

Temp: 19.5 °C B P.: 29.81 "Hg

INJ. TIME	LAB ID	CAN ID #	CLIENT ID	ETR #	INLET #	SAMPLE VOLUME (mL)	DILUTION FACTOR	ISTD RECOVERY	CONC	ANALYST	COMMENTS
0626	cb009p	n/a	WBFB009	n/a	n/a	n/a	n/a	n/a	✓	Gmm	
0648	cb010i	EXP1	ASTD010		3	50		✓	✓		AT07100001
0724	cb010ig	6062	RS_LCS		4	200		✓	✓		AT07100003
0756	cb6001i	n/a	ABLKRS		1	200		✓	✓		
0851	424985	6094	-EA072-	79066	5	200	1:1	✓	✓		C
0919	425224	6080	-Effluent	79092	6	200	1:1	✓	✓		C
0954	425225d	Bag	-Influent		8	100	1.98	✓	↓		
1048	425225d2	Bag	↓	↓	↓	18.5	1.529	✓	✓		C
1125	425407	6112	-ACAEA-	79113	9	200		✓	✓		C
1159	425405d	6020	ACAI-		5	100		✓	↑		
1234	425406d	6005	-ACA2I-		10	200		✓	✓		C
1321	425405d2	6020	-ACAI-	↓	5	25	↓ 1:8	✓	✓	↓	C

SAMPLE HANDLING

7-27-00 0915

PLEASE FOLD THIS SHIPPING DOCUMENT IN HALF AND PLACE IT IN A WAYBILL POUCH AFFIXED TO YOUR SHIPMENT SO THAT THE BAR-CODE PORTION OF THE LABEL CAN BE READ AND SCANNED. ***WARNING: USE ONLY THE PRINTED ORIGINAL LABEL FOR SHIPPING. USING A PHOTOCOPY OF THIS LABEL FOR SHIPPING PURPOSES IS FRAUDULENT AND COULD RESULT IN ADDITIONAL BILLING CHARGES, ALONG WITH THE CANCELLATION OF YOUR FEDEX ACCOUNT NUMBER.

FROM: Randy Dumaop (904)777-4812
CCI / J.A. Jones Environmental
6219 Authority Ave.
Building 1
Jacksonville, FL 32215

SHIPPER'S FEDEX ACCOUNT NUMBER

FedEx
Federal Express

TO: Ron Pentkowski (802)655-1203
Severn Trent Laboratories
208 South Park Drive
Suite 1
Colchester, VT 05446-

SHIP DATE: 25JUL00
MAN-WGT: 24 LBS

REF: 154282.99.22.01.01

DELIVER ADDRESS BARC (FEDEX-EDR)

CAD # 3844729 ** 2DAY **

THU
AA

TRK # 7911 1703 7558 FORM 0201

BTV

Deliver By:
27JUL00

05446-VT-US

KF BTVA

0151

SEVERN TRENT LABORATORIES LOG-IN SHEET - Form DC-1

Lab Name: Severn Trent Laboratories - VT — Page 1 of 1

Received By (Print Name): Frank Bessette — Log-in Date: 7-28-00

Received By (Signature): [signature]

Case Number: 20031

Sample Delivery Group No: 79113

ETR Number: 79113

REMARKS:

1. **Custody Seal** ~~Present~~/~~Absent~~* ~~Intact~~/~~Broken~~
2. **Custody Seal Nos.:** /
3. **Chain-of-Custody Records** ~~Present~~/~~Absent~~*
4. **Sample Information Sheets** ~~Present~~/~~Absent~~*
5. **Airbill** ~~Airbill~~/~~Sticker~~ ~~Present~~/~~Absent~~*
6. **Airbill No.:** 7911-1703-7558
7. **Sample Tags** ~~Present~~/~~Absent~~* **Sample Tag Numbers** ~~Listed~~/~~Not Listed~~ on Chain-of-Custody
8. **Sample Condition:** ~~Intact~~/~~Broken~~* ~~Leaking~~
9. **Does information on the custody records, sample information sheets, sample tags and labels agree?** ~~Yes~~/~~No~~*
10. **Date Received at Lab:** 7-27-00
11. **Time Received:** 0915
12. **Cooler Temperature:** N/A

Sample Transfer

Fraction: All

Area #: Level 4

By: FMD

On: 7-27-00

CORRESPONDING			
CLIENT SAMPLE #	SAMPLE TAG #	ASSIGNED LAB #	REMARKS: CONDITION OF SAMPLE SHIPMENT, ETC.
029ACAIA	07240002	425405	Were air bubbles present
029AC2IA	07240002	425406	in any VOA vials? NA
029ACAEA	07240002	425407	Samples rec'd intact on 7-27-00 in a box with unbroken custody seals present.
			For sample truncation removed dashes.
			FMD 7-28-00

* Contact Project Director

Reviewed by: [signature] — Logbook No.: _____

Date: 7/28/00 — Logbook Page No.: _____

0132

** COOLER RECEIPT CHECKLIST **

WERE CUSTODY SEALS PRESENT ON THE COOLERS?

(YES) NO

IF SO, WERE THERE CUSTODY SEAL NUMBERS?

YES (NO)

LIST THE CUSTODY SEAL NUMBERS. _____ _____

WHAT TYPE OF COOLING WAS UTILIZED?

ICE MELTED ICE PACKS (NONE)

COOLER TEMPERATURE (degrees c): N/A BOX

DATE AND TIME COOLER RECEIVED: 7/27/00 0915

DO SAMPLES APPEAR TO BE INTACT: (YES) NO

DO ANY SAMPLES HAVE SHORT HOLDING TIMES?
(less than seven days)

WET CHEM	**YES**	**(NO)**
EXTRACTABLES	**YES**	**(NO)**
UNPRES VOA	**YES**	**(NO)**

RADIATION SCREEN RESULTS <0.05 MR/HR (YES) NO

ACCURA ANALYTICAL LABORATORY, INC.

6017 Financial Drive, Norcross, Georgia, 30071, Phone (770) 449-8800

CASE NARRATIVE for Project Number: 25374
Client Project: N.A.S. Cecil Field 103 Rd. St. Monthly Air / 154282 CTO-0029
Task Order Manager: Keith Conn

The following items were noted concerning this project:

1. The following analysis was performed by a subcontract laboratory:
   T0-14A

2. The following sample required dilution due to high analyte concentration, resulting in elevated detection limits:
   T0-14A
   029-ACA-I-A-0815-00-03

Quality Assurance

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ACCURA ANALYTICAL LABORATORY, INC.

6017 Financial Drive, Norcross, Georgia 30017, Phone (770)449-8800, FAX (770)449-5477
FL Certification # E87429 NC Certification # 483 SC Certification # 98015 USACE-MRD Approved

LABORATORY REPORT

Accura Sample ID #: AB98129 **Accura Project #: 25374**

Client: CH2M HILL - CCI Date Sampled: 8/15/00

Client Contact: KEITH CONN Date Received: 8/21/00

Client Project Number: 154282 CTO - 0029 Date Reported: 9/1/00

Client Project Name: N.A.S. CECIL FIELD 103RD ST. MONTHLY AIR Sample Matrix: AIR

Client Sample ID: 029-ACA-I-A-0815-00-03

ANALYSIS: VOC's in Air (ppbv) Method Ref: TO-14A

Date Ext/Dig/Prep: 8/22/00 Date Analyzed: 8/22/00 Result Units: ppbv

Analyte Name	Analytical Results	Reported Detection Limits
1,1,1-Trichloroethane	<RDL	4.0
1,1,2,2-Tetrachloroethane	<RDL	4.0
1,1,2-Trichloroethane	<RDL	4.0
1,1-Dichloroethane	<RDL	4.0
1,2-Dichlorobenzene	<RDL	4.0
1,2-Dichloroethane	<RDL	4.0
1,2-Dichloropropane	<RDL	4.0
1,3-Dichlorobenzene	<RDL	4.0
1,4-Dichlorobenzene	<RDL	4.0
Benzene	<RDL	4.0
Bromomethane	<RDL	4.0
Carbon tetrachloride	<RDL	4.0
Chlorobenzene	<RDL	4.0
Chloroethane	<RDL	4.0
Chloroform	<RDL	4.0
Chloromethane	<RDL	4.0
cis-1,3-Dichloropropene	<RDL	4.0
Ethylbenzene	4.4	4.0
Methylene chloride	4.9	4.0
Styrene	<RDL	4.0
Tetrachloroethene	<RDL	4.0
Toluene	190	4.0
trans-1,3-Dichloropropene	<RDL	4.0
Trichloroethene	<RDL	4.0
Trichlorofluoromethane	<RDL	4.0
Vinyl chloride	<RDL	4.0
Xylenes (m,p)	22	4.0
Xylenes (o)	9.1	4.0

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LABORATORY REPORT

Accura Sample ID #: AB98130 **Accura Project #: 25374**

Client: CH2M HILL - CCI Date Sampled: 8/15/00

Client Contact: KEITH CONN Date Received: 8/21/00

Client Project Number: 154282 CTO - 0029 Date Reported: 9/1/00

Client Project Name: N.A.S. CECIL FIELD 103RD ST. MONTHLY AIR Sample Matrix: AIR

Client Sample ID: 029-ACA2-I-A-0815-00-03

ANALYSIS: VOC's in Air (ppbv) Method Ref: TO-14A

Date Ext/Dig/Prep: 8/22/00 Date Analyzed: 8/22/00 Result Units: ppbv

Analyte Name	Analytical Results	Reported Detection Limits
1,1,1-Trichloroethane	<RDL	0.50
1,1,2,2-Tetrachloroethane	<RDL	0.50
1,1,2-Trichloroethane	<RDL	0.50
1,1-Dichloroethane	<RDL	0.50
1,2-Dichlorobenzene	<RDL	0.50
1,2-Dichloroethane	<RDL	0.50
1,2-Dichloropropane	<RDL	0.50
1,3-Dichlorobenzene	<RDL	0.50
1,4-Dichlorobenzene	<RDL	0.50
Benzene	<RDL	0.50
Bromomethane	<RDL	0.50
Carbon tetrachloride	<RDL	0.50
Chlorobenzene	<RDL	0.50
Chloroethane	<RDL	0.50
Chloroform	<RDL	0.50
Chloromethane	0.53	0.50
cis-1,3-Dichloropropene	<RDL	0.50
Ethylbenzene	2.2	0.50
Methylene chloride	<RDL	0.50
Styrene	<RDL	0.50
Tetrachloroethene	<RDL	0.50
Toluene	<RDL	0.50
trans-1,3-Dichloropropene	<RDL	0.50
Trichloroethene	<RDL	0.50
Trichlorofluoromethane	<RDL	0.50
Vinyl chloride	<RDL	0.50
Xylenes (m,p)	30	0.50
Xylenes (o)	24	0.50

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LABORATORY REPORT

Accura Sample ID #: AB98131 **Accura Project #: 25374**

Client: CH2M HILL - CCI Date Sampled: 8/15/00

Client Contact: KEITH CONN Date Received: 8/21/00

Client Project Number: 154282 CTO - 0029 Date Reported: 9/1/00

Client Project Name: N.A.S. CECIL FIELD 103RD ST. MONTHLY AIR Sample Matrix: AIR

Client Sample ID: 029-ACA-E-A-0815-00-03

ANALYSIS: VOC's in Air (ppbv) Method Ref: TO-14A

Date Ext/Dig/Prep: 8/22/00 Date Analyzed: 8/22/00 Result Units: ppbv

Analyte Name	Analytical Results	Reported Detection Limits
1,1,1-Trichloroethane	<RDL	0.50
1,1,2,2-Tetrachloroethane	<RDL	0.50
1,1,2-Trichloroethane	<RDL	0.50
1,1-Dichloroethane	<RDL	0.50
1,2-Dichlorobenzene	<RDL	0.50
1,2-Dichloroethane	<RDL	0.50
1,2-Dichloropropane	<RDL	0.50
1,3-Dichlorobenzene	<RDL	0.50
1,4-Dichlorobenzene	<RDL	0.50
Benzene	12	0.50
Bromomethane	<RDL	0.50
Carbon tetrachloride	<RDL	0.50
Chlorobenzene	<RDL	0.50
Chloroethane	<RDL	0.50
Chloroform	<RDL	0.50
Chloromethane	0.69	0.50
cis-1,3-Dichloropropene	<RDL	0.50
Ethylbenzene	1.7	0.50
Methylene chloride	<RDL	0.50
Styrene	<RDL	0.50
Tetrachloroethene	<RDL	0.50
Toluene	10	0.50
trans-1,3-Dichloropropene	<RDL	0.50
Trichloroethene	<RDL	0.50
Trichlorofluoromethane	<RDL	0.50
Vinyl chloride	<RDL	0.50
Xylenes (m,p)	4.2	0.50
Xylenes (o)	2.1	0.50

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FL Certification # E87429 NC Certification # 483 SC Certification # 98015 USACE-MRD Approved

LABORATORY REPORT

Accura Sample ID #: AB98132 **Accura Project #: 25374**

Client: CH2M HILL - CCI Date Sampled: 8/21/00

Client Contact: KEITH CONN Date Received: 8/21/00

Client Project Number: 154282 CTO - 0029 Date Reported: 9/1/00

Client Project Name: N.A.S. CECIL FIELD 103RD ST. MONTHLY AIR Sample Matrix: AIR

Client Sample ID: METHOD BLANK

ANALYSIS: VOC's in Air (ppbv) Method Ref: TO-14A

Date Ext/Dig/Prep: 8/22/00 Date Analyzed: 8/22/00 Result Units: ppbv

Analyte Name	Analytical Results	Reported Detection Limits
1,1,1-Trichloroethane	<RDL	0.50
1,1,2,2-Tetrachloroethane	<RDL	0.50
1,1,2-Trichloroethane	<RDL	0.50
1,1-Dichloroethane	<RDL	0.50
1,2-Dichlorobenzene	<RDL	0.50
1,2-Dichloroethane	<RDL	0.50
1,2-Dichloropropane	<RDL	0.50
1,3-Dichlorobenzene	<RDL	0.50
1,4-Dichlorobenzene	<RDL	0.50
Benzene	<RDL	0.50
Bromomethane	<RDL	0.50
Carbon tetrachloride	<RDL	0.50
Chlorobenzene	<RDL	0.50
Chloroethane	<RDL	0.50
Chloroform	<RDL	0.50
Chloromethane	<RDL	0.50
cis-1,3-Dichloropropene	<RDL	0.50
Ethylbenzene	<RDL	0.50
Methylene chloride	<RDL	0.50
Styrene	<RDL	0.50
Tetrachloroethene	<RDL	0.50
Toluene	<RDL	0.50
trans-1,3-Dichloropropene	<RDL	0.50
Trichloroethene	<RDL	0.50
Trichlorofluoromethane	<RDL	0.50
Vinyl chloride	<RDL	0.50
Xylenes (m,p)	<RDL	0.50
Xylenes (o)	<RDL	0.50

Accura Analytical Laboratory, Inc.

PROJECT QUALITY CONTROL RESULTS FOR AIR
Accura Project #25374

		LCS Recovery (Actual)	LCS Recovery (Expected)	% Recovery (LCS)	Accuracy Limits(LCS) Audit Accuracy Recoveries
Method No[1]	Analyte / Component	Air	Air	Air	Air
TO-14A List		ppbv	ppbv	%	%
TO-14A	Benzene	8.3	10	83	70-130
TO-14A	Carbon Tetrachloride	9	10	90	70-130
TO-14A	Chlorobenzene	8.4	10	84	70-130
TO-14A	Chloroform	8.4	10	84	70-130
TO-14A	1,3-Dichlorobenzene	8.6	10	86	70-130
TO-14A	1,4-Dichlrobenzene	7.3	10	73	70-130
TO-14A	1,2-Dichlorobenzene	8.1	10	81	70-130
TO-14A	1,1-Dichloroethane	8.3	10	83	70-130
TO-14A	1,2-Dichloroethane	8.3	10	83	70-130
TO-14A	Methylene Chloride	7.9	10	79	70-130
TO-14A	1,2-Dichloropropane	7.6	10	76	70-130
TO-14A	Cis-1,3-Dichloropropene	8.8	10	88	70-130
TO-14A	Trans-1,3-Dichloropropene	8.2	10	82	70-130
TO-14A	Ethylbenzene	8.7	10	87	70-130
TO-14A	Chloroethane	9.2	10	92	70-130
TO-14A	Bromomethane	8.7	10	87	70-130
TO-14A	Chloromethane	8.5	10	85	70-130
TO-14A	Styrene	8.6	10	86	70-130
TO-14A	1,1,2,2-Tetrachloroethane	8.7	10	87	70-130
TO-14A	Tetrachloroethylene	8.4	10	84	70-130
TO-14A	Toluene	8.6	10	86	70-130
TO-14A	1,1,1-Trichloroethane	8.5	10	85	70-130
TO-14A	1,1,2-Trichloroethane	9.1	10	91	70-130
TO-14A	Trichloroethylene	8.4	10	84	70-130
TO-14A	Vinyl Chloride	9.0	10	90	70-130
TO-14A	m-p-Xylene	17	20	85	70-130
TO-14A	o-Xylene	8.5	10	85	70-130
TO-14A	Trichlorofluoromethane	8.8	10	88	70-130

AALB 75374

CH2M Hill Constructors, Inc.
115 Perimeter Center Place, Suite 700
Atlanta, GA 30346 1278
Tel No (770) 604-9182 : Fax No (770) 604-9282

CHAIN-OF-CUSTODY RECORD

COC NUMBER: **154282-02**

PROJECT NAME	PROJECT NUMBER	LAB NAME AND CONTACT	FAX AND MAIL REPORTS/EDD TO: RECIPIENT 1 (Name and Company)	RECIPIENT 1 (Address, Tel No., and Fax No.)
N.A.S Cecil Field 103rd Street	154282	Severn Trent Laboratories/ Ron Pentkowski	Jeff Wilmoth Accura Analytical Laboratory	6017 Financial Drive Norcross, GA 30071 (770) 449-8800 Fax:(770) 449-5477
PROJECT PHASE/SITE/TASK	CTO OR DO NUMBER	LAB PO NUMBER	FAX AND MAIL REPORTS/EDD TO: RECIPIENT 2 (Name and Company)	RECIPIENT 2 (Address, Tel No., and Fax No.)
103rd Street Monthly Air	0029	1760	Keith Conn / J.A Jones Env. Services	6219 Authority Ave. Building 1 Jacksonville, FL 32215 (904) 7774812 FAX: (904) 7774262
PROJECT CONTACT	PROJECT TEL NO AND FAX NO:	LAB TEL NO AND FAX NO	FAX AND MAIL REPORTS/EDD TO: RECIPIENT 3 (Name and Company)	RECIPIENT 3 (Address, Tel No., and Fax No.)
Keith Conn	Ph:(904)777-4812 Fax:(904) 777-4262	Ph:(802) 655-1203	Lisa Schwan / CH2M Hill Constuctors, Inc.	115 Perimeter Center Place, N.E. Suite 700 Atlanta, GA 30346 (770)604-9182 Ext.561 FAX:604-9282

ANALYSES REQUIRED (Include Method Numbers)

ITEM	SAMPLE IDENTIFIER	SAMPLE DESCRIPTION/LOCATION	MATRIX (see codes on back)	DATE COLLECTED	TIME COLLECTED	DATA PKG LEVEL (see codes on back)	TAT (calendar days)	Volatiles by 18/TO 14									SAMPLE TYPE (see codes on back)	COMMENTS/ SCREENING READINGS	LAB ID
1	029-ACA-I-A-0815-00-03	Pre Carbon Units	A	08/15/00	9:25	III/B	7	1									Grab	Summa Canister	98129
2	029-ACA2-I-A-0815-00-03	Mid Carbon Units	A	08/15/00	9:30	III/B	7	1									Grab	Summa Canister	98130
3	029-ACA-E-A-0815-00-03	Post Carbon Units	A	08/15/00	9:35	III/B	7	1									Grab	Summa Canister	98131
4																			
5																			
6																			
7																			
8																			
9																			
10																			

SAMPLER(S) AND COMPANY (please print)	COURIER AND SHIPPING NUMBER:	SAMPLES TEMPERATURE AND CONDITION UPON RECEIPT
Randy Dumaop J.A. Jones Environmental Services	Federal Express TRK# 791128430140	

RELINQUISHED BY	DATE	TIME	RECEIVED BY	DATE	TIME
Printed Name and Signature			Printed Name and Signature		
R.Dumaop	8/16/00	10:00	Federal Express TRK# 791128430140	8/16/00	11:00
Printed Name and Signature			Printed Name and Signature		
Printed Name and Signature			Printed Name and Signature		

08/21/00 MON 07:49 FAX 9047774262 CH2M HILL CONSTRUCTORS 003

SEVERN TRENT SERVICES

STL Burlington

SAMPLE DATA SUMMARY PACKAGE

SDG NO: 79442

SEVERN TRENT SERVICES

STL Burlington
Suite 1
208 South Park Drive
Colchester, VT 05446

Tel: 802 655 1203
Fax: 802 655 1248
www.stl-inc.com

August 30, 2000

Mr. Jeff Wilmoth
Accura Analytical Laboratories
6017 Financial Drive
Norcross, GA 30071

Re: Laboratory Project No. 20031
Case: 20031; SDG:79442

Dear Mr. Wilmoth:

Enclosed are the analytical results of samples received intact by Severn Trent Laboratories on August 18, 2000. Laboratory numbers have been assigned and designated as follows:

Lab ID	Client Sample ID	Sample Date	Sample Matrix
	Received: 8/18/00	ETR No: 79442	
427756	029ACAIA08150003	08/15/00	Air
427757	029ACA2IA08150003	08/15/00	Air
427758	029ACAEA08150003	08/15/00	Air

Method TO-14A Modified-Volatile Organics;
Please note due to a limitation of characters inherent in the reporting software, the first four characters of the client identification above were truncated.

Please note that the volatile organic analysis of sample CAIA08150003 was accomplished at a dilution based upon initial screen data that indicated target compound Toluene was present at concentrations that would have been above the calibration in a full strength acquisition.

If there are any questions regarding this submittal, please contact Ron Pentkowski at (802) 655-1203.

Sincerely,

Christopher A. Ouellette
Laboratory Director

CAO/bas
Enclosure

SEVERN TRENT SERVICES

Severn Trent Laboratories, Inc.

SAMPLE DATA SUMMARY PACKAGE

FOR TO14A

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

ACCANA SAMPLE NO.

A2IA08150003

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 79442

Matrix: (soil/water) AIR Lab Sample ID: 427757

Sample wt/vol: 200 (g/mL) ML Lab File ID: 427757

Level: (low/med) LOW Date Received: 08/18/00

% Moisture: not dec. _____ Date Analyzed: 08/22/00

GC Column: DB-1 ID: 0.35 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) PPBV	Q
74-87-3	Chloromethane	0.53	
75-01-4	Vinyl Chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-09-2	Methylene Chloride	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
56-23-5	Carbon Tetrachloride	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-88-3	Toluene	0.50	U
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	2.2	
1330-20-7	Xylene (total)	54	
100-42-5	Styrene	0.50	U
1330-20-7	Xylene (m,p)	30	
95-47-6	Xylene (o)	24	
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

ACCANA SAMPLE NO.

CAEA08150003

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 79442

Matrix: (soil/water) AIR Lab Sample ID: 427758

Sample wt/vol: 200 (g/mL) ML Lab File ID: 427758

Level: (low/med) LOW Date Received: 08/18/00

% Moisture: not dec. _____ Date Analyzed: 08/22/00

GC Column: DB-1 ID: 0.35 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) PPBV	Q
74-87-3	Chloromethane	0.69	
75-01-4	Vinyl Chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-09-2	Methylene Chloride	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
56-23-5	Carbon Tetrachloride	0.50	U
71-43-2	Benzene	12	
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-88-3	Toluene	10	
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	1.7	
1330-20-7	Xylene (total)	6.3	
100-42-5	Styrene	0.50	U
1330-20-7	Xylene (m,p)	4.2	
95-47-6	Xylene (o)	2.1	
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

ACCANA SAMPLE NO.

CAIA08150003

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 79442

Matrix: (soil/water) AIR Lab Sample ID: 427756

Sample wt/vol: 25 (g/mL) ML Lab File ID: 427756D

Level: (low/med) LOW Date Received: 08/18/00

% Moisture: not dec. _____ Date Analyzed: 08/22/00

GC Column: DB-1 ID: 0.35 (mm) Dilution Factor: 8.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) PPBV	Q
74-87-3	Chloromethane	4.0	U
75-01-4	Vinyl Chloride	4.0	U
74-83-9	Bromomethane	4.0	U
75-00-3	Chloroethane	4.0	U
75-69-4	Trichlorofluoromethane	4.0	U
75-09-2	Methylene Chloride	4.9	
75-34-3	1,1-Dichloroethane	4.0	U
67-66-3	Chloroform	4.0	U
71-55-6	1,1,1-Trichloroethane	4.0	U
56-23-5	Carbon Tetrachloride	4.0	U
71-43-2	Benzene	4.0	U
107-06-2	1,2-Dichloroethane	4.0	U
79-01-6	Trichloroethene	4.0	U
78-87-5	1,2-Dichloropropane	4.0	U
10061-01-5	cis-1,3-Dichloropropene	4.0	U
108-88-3	Toluene	190	
10061-02-6	trans-1,3-Dichloropropene	4.0	U
79-00-5	1,1,2-Trichloroethane	4.0	U
127-18-4	Tetrachloroethene	4.0	U
108-90-7	Chlorobenzene	4.0	U
100-41-4	Ethylbenzene	4.4	
1330-20-7	Xylene (total)	31	
100-42-5	Styrene	4.0	U
1330-20-7	Xylene (m,p)	22	
95-47-6	Xylene (o)	9.1	
79-34-5	1,1,2,2-Tetrachloroethane	4.0	U
541-73-1	1,3-Dichlorobenzene	4.0	U
106-46-7	1,4-Dichlorobenzene	4.0	U
95-50-1	1,2-Dichlorobenzene	4.0	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ABLKU9

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 79442

Matrix: (soil/water) AIR Lab Sample ID: ABLKU9

Sample wt/vol: 200 (g/mL) ML Lab File ID: CBB001N

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

% Moisture: not dec. _____ Date Analyzed: 08/22/00

GC Column: DB-1 ID: 0.35 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) PPBV	Q
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl Chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-09-2	Methylene Chloride	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
56-23-5	Carbon Tetrachloride	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-88-3	Toluene	0.50	U
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
1330-20-7	Xylene (total)	0.50	U
100-42-5	Styrene	0.50	U
1330-20-7	Xylene (m,p)	0.50	U
95-47-6	Xylene (o)	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

STLVT SAMPLE NO.

ICV_LCS

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 79442

Matrix: (soil/water) AIR Lab Sample ID: ICV_LCS

Sample wt/vol: 200 (g/mL) ML Lab File ID: CB010Q

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

% Moisture: not dec. _____ Date Analyzed: 07/10/00

GC Column: DB-1 ID: 0.35 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) PPBV	Q
74-87-3	Chloromethane	11	
75-01-4	Vinyl Chloride	11	
74-83-9	Bromomethane	10	
75-00-3	Chloroethane	11	
75-69-4	Trichlorofluoromethane	10	
75-09-2	Methylene Chloride	10	
75-34-3	1,1-Dichloroethane	11	
67-66-3	Chloroform	11	
71-55-6	1,1,1-Trichloroethane	11	
56-23-5	Carbon Tetrachloride	10	
71-43-2	Benzene	10	
107-06-2	1,2-Dichloroethane	10	
79-01-6	Trichloroethene	10	
78-87-5	1,2-Dichloropropane	10	
10061-01-5	cis-1,3-Dichloropropene	11	
108-88-3	Toluene	9.3	
10061-02-6	trans-1,3-Dichloropropene	11	
79-00-5	1,1,2-Trichloroethane	10	
127-18-4	Tetrachloroethene	9.2	
108-90-7	Chlorobenzene	9.0	
100-41-4	Ethylbenzene	9.4	
1330-20-7	Xylene (total)	28	
100-42-5	Styrene	8.8	
1330-20-7	Xylene (m,p)	18	
95-47-6	Xylene (o)	9.3	
79-34-5	1,1,2,2-Tetrachloroethane	9.3	
541-73-1	1,3-Dichlorobenzene	9.0	
106-46-7	1,4-Dichlorobenzene	8.0	
95-50-1	1,2-Dichlorobenzene	8.6	

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

U9_LCS

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 79442

Matrix: (soil/water) AIR Lab Sample ID: U9_LCS

Sample wt/vol: 200 (g/mL) ML Lab File ID: CB010NQ

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

% Moisture: not dec. _____ Date Analyzed: 08/22/00

GC Column: DB-1 ID: 0.35 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) PPBV	Q
74-87-3	Chloromethane	8.5	
75-01-4	Vinyl Chloride	9.0	
74-83-9	Bromomethane	8.7	
75-00-3	Chloroethane	9.2	
75-69-4	Trichlorofluoromethane	8.8	
75-09-2	Methylene Chloride	7.9	
75-34-3	1,1-Dichloroethane	8.3	
67-66-3	Chloroform	8.4	
71-55-6	1,1,1-Trichloroethane	8.5	
56-23-5	Carbon Tetrachloride	9.0	
71-43-2	Benzene	8.3	
107-06-2	1,2-Dichloroethane	8.3	
79-01-6	Trichloroethene	8.4	
78-87-5	1,2-Dichloropropane	7.6	
10061-01-5	cis-1,3-Dichloropropene	8.8	
108-88-3	Toluene	8.6	
10061-02-6	trans-1,3-Dichloropropene	8.2	
79-00-5	1,1,2-Trichloroethane	9.1	
127-18-4	Tetrachloroethene	8.4	
108-90-7	Chlorobenzene	8.4	
100-41-4	Ethylbenzene	8.7	
1330-20-7	Xylene (total)	26	
100-42-5	Styrene	8.6	
1330-20-7	Xylene (m,p)	17	
95-47-6	Xylene (o)	8.5	
79-34-5	1,1,2,2-Tetrachloroethane	8.7	
541-73-1	1,3-Dichlorobenzene	8.6	
106-46-7	1,4-Dichlorobenzene	7.3	
95-50-1	1,2-Dichlorobenzene	8.1	

FORM 2
AIR VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 79442

	STLVT SAMPLE NO.	SMC1 #	SMC2 #	SMC3 #	OTHER	TOT OUT
01	ICV_LCS					0
02	U9_LCS					0
03	ABLKU9					0
04	CAIA08150003					0
05	A2IA08150003					0
06	CAEA08150003					0
07						
08						
09						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						
26						
27						
28						
29						
30						

QC LIMITS

Column to be used to flag recovery values

* Values outside of contract required QC limits

D System Monitoring Compound diluted out

FORM 3
AIR VOLATILE LAB CONTROL SAMPLE

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 79442

Matrix Spike - STLVT Sample No.: ICV_LCS

COMPOUND	SPIKE ADDED (ppbv)	SAMPLE CONCENTRATION (ug/L)	LCS CONCENTRATION (ppbv)	LCS % REC #	QC. LIMITS REC.
Chloromethane	10		11	110	70-130
Vinyl Chloride	10		11	110	70-130
Bromomethane	10		10	100	70-130
Chloroethane	10		11	110	70-130
Trichlorofluoromethane	10		10	100	70-130
Methylene Chloride	10		10	100	70-130
1,1-Dichloroethane	10		11	110	70-130
Chloroform	10		11	110	70-130
1,1,1-Trichloroethane	10		11	110	70-130
Carbon Tetrachloride	10		10	100	70-130
Benzene	10		10	100	70-130
1,2-Dichloroethane	10		10	100	70-130
Trichloroethene	10		10	100	70-130
1,2-Dichloropropane	10		10	100	70-130
cis-1,3-Dichloropropene	10		11	110	70-130
Toluene	10		9.3	93	70-130
trans-1,3-Dichloroprope	10		11	110	70-130
1,1,2-Trichloroethane	10		10	100	70-130
Tetrachloroethene	10		9.2	92	70-130
Chlorobenzene	10		9.0	90	70-130
Ethylbenzene	10		9.4	94	70-130
Styrene	10		8.8	88	70-130
Xylene (m,p)	20		18	90	70-130
Xylene (o)	10		9.3	93	70-130
1,1,2,2-Tetrachloroetha	10		9.3	93	70-130
1,3-Dichlorobenzene	10		9.0	90	70-130
1,4-Dichlorobenzene	10		8.0	80	70-130
1,2-Dichlorobenzene	10		8.6	86	70-130

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

* Values outside of QC limits

RPD: 0 out of 0 outside limits
Spike Recovery: 0 out of 28 outside limits

COMMENTS: _____

FORM 3
AIR VOLATILE LAB CONTROL SAMPLE

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 79442

Matrix Spike - Sample No.: U9_LCS

COMPOUND	SPIKE ADDED (ppbv)	SAMPLE CONCENTRATION (ug/L)	LCS CONCENTRATION (ppbv)	LCS % REC #	QC. LIMITS REC.
Chloromethane	10		8.5	85	70-130
Vinyl Chloride	10		9.0	90	70-130
Bromomethane	10		8.7	87	70-130
Chloroethane	10		9.2	92	70-130
Trichlorofluoromethane	10		8.8	88	70-130
Methylene Chloride	10		7.9	79	70-130
1,1-Dichloroethane	10		8.3	83	70-130
Chloroform	10		8.4	84	70-130
1,1,1-Trichloroethane	10		8.5	85	70-130
Carbon Tetrachloride	10		9.0	90	70-130
Benzene	10		8.3	83	70-130
1,2-Dichloroethane	10		8.3	83	70-130
Trichloroethene	10		8.4	84	70-130
1,2-Dichloropropane	10		7.6	76	70-130
cis-1,3-Dichloropropene	10		8.8	88	70-130
Toluene	10		8.6	86	70-130
trans-1,3-Dichloroprope	10		8.2	82	70-130
1,1,2-Trichloroethane	10		9.1	91	70-130
Tetrachloroethene	10		8.4	84	70-130
Chlorobenzene	10		8.4	84	70-130
Ethylbenzene	10		8.7	87	70-130
Styrene	10		8.6	86	70-130
Xylene (m,p)	20		17	85	70-130
Xylene (o)	10		8.5	85	70-130
1,1,2,2-Tetrachloroetha	10		8.7	87	70-130
1,3-Dichlorobenzene	10		8.6	86	70-130
1,4-Dichlorobenzene	10		7.3	73	70-130
1,2-Dichlorobenzene	10		8.1	81	70-130

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

* Values outside of QC limits

RPD: 0 out of 0 outside limits
Spike Recovery: 0 out of 28 outside limits

COMMENTS: _____

FORM 4
VOLATILE METHOD BLANK SUMMARY

CLIENT SAMPLE NO.

ABLKU9

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 79442

Lab File ID: CBB001N Lab Sample ID: ABLKU9

Date Analyzed: 08/22/00 Time Analyzed: 1124

GC Column: DB-1 ID: 0.35 (mm) Heated Purge: (Y/N) N

Instrument ID: W

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

	SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	U9_LCS	U9_LCS	CB010NQ	1053
02	CAIA08150003	427756	427756D	1340
03	A2IA08150003	427757	427757	1413
04	CAEA08150003	427758	427758	1446
05				
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COMMENTS:

FORM 5
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 79442

Lab File ID: CB014P BFB Injection Date: 08/22/00

Instrument ID: W BFB Injection Time: 0952

GC Column: DB-1 ID: 0.32 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	21.1
75	30.0 - 66.0% of mass 95	47.5
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.8
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	50.0 - 120.0% of mass 95	67.6
175	4.0 - 9.0% of mass 174	4.8 (7.0)1
176	93.0 - 101.0% of mass 174	65.0 (96.3)1
177	5.0 - 9.0% of mass 176	4.3 (6.7)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	ASTD010	ASTD010	CB010N	08/22/00	1012
02	U9_LCS	U9_LCS	CB010NQ	08/22/00	1053
03	ABLKU9	ABLKU9	CBB001N	08/22/00	1124
04	CAIA08150003	427756	427756D	08/22/00	1340
05	A2IA08150003	427757	427757	08/22/00	1413
06	CAEA08150003	427758	427758	08/22/00	1446
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VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 79442

Instrument ID: W Calibration Date(s): 07/10/00 07/10/00

Heated Purge: (Y/N) N Calibration Time(s): 1021 1337

GC Column: DB-1 ID: 0.35 (mm)

LAB FILE ID: RRF0.5=CB0005I2 RRF5 =CB005
RRF10 =CB010 RRF20 =CB020 RRF40 =CB040

COMPOUND		RRF0.5	RRF5	RRF10	RRF20	RRF40	$\overline{RRF}$	% RSD
Chloromethane	*	0.968	0.672	0.708	0.648	0.627	0.725	19.2*
Vinyl Chloride		0.928	0.775	0.792	0.716	0.704	0.783	11.4
Bromomethane		1.272	1.006	1.018	0.896	0.861	1.011	16.0
Chloroethane		0.540	0.458	0.450	0.408	0.435	0.458	10.8
Trichlorofluoromethane		3.108	2.834	2.601	2.153	2.244	2.588	15.4
Methylene Chloride		1.676	1.157	1.130	0.952	0.926	1.168	25.8
1,1-Dichloroethane	*	2.306	1.944	1.891	1.731	1.542	1.883	15.1*
Chloroform		2.896	2.499	2.405	2.184	2.011	2.399	14.0
1,1,1-Trichloroethane		2.670	2.427	2.324	2.119	1.930	2.294	12.4
Carbon Tetrachloride		0.543	0.556	0.512	0.466	0.409	0.497	12.1
Benzene		0.801	0.723	0.686	0.638	0.575	0.685	12.5
1,2-Dichloroethane		1.943	1.791	1.690	1.552	1.436	1.682	11.8
Trichloroethene		0.350	0.347	0.320	0.298	0.259	0.315	12.0
1,2-Dichloropropane		0.294	0.287	0.267	0.245	0.216	0.262	12.2
cis-1,3-Dichloropropene		0.418	0.434	0.425	0.409	0.366	0.410	6.4
Toluene		0.479	0.578	0.552	0.489	0.408	0.501	13.3
trans-1,3-Dichloropropene		0.318	0.329	0.332	0.322	0.298	0.320	4.2
1,1,2-Trichloroethane		0.303	0.303	0.282	0.255	0.224	0.273	12.4
Tetrachloroethene		0.348	0.439	0.412	0.369	0.304	0.374	14.3
Chlorobenzene	*	0.624	0.767	0.717	0.622	0.508	0.648	15.4*
Ethylbenzene		0.952	1.346	1.290	1.111	0.899	1.120	17.7
Xylene (total)		1.004	1.431	1.378	1.236	1.055	1.221	15.5
Styrene		0.330	0.648	0.638	0.582	0.509	0.541	24.1
Xylene (m,p)		0.344	0.481	0.460	0.413	0.353	0.410	15.0
Xylene (o)		0.317	0.470	0.458	0.410	0.349	0.401	16.6
1,1,2,2-Tetrachloroethane		0.510	0.870	0.803	0.688	0.558	0.686	22.5
1,3-Dichlorobenzene		0.396	0.768	0.757	0.655	0.530	0.621	25.4
1,4-Dichlorobenzene		0.481	0.748	0.726	0.660	0.581	0.639	17.2
1,2-Dichlorobenzene		0.281	0.655	0.648	0.582	0.490	0.531	29.2

* Compounds with required minimum RRF and maximim %RSD values.
All other compounds must meet a minimim RRF of 0.010.

FORM 7
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 2. 31 SAS No.: SDG No.: /9442

Instrument ID: W Calibration Date: 08/22/00 Time: 1012

Lab File ID: CB010N Init. Calib. Date(s): 07/10/00 07/10/00

Heated Purge: (Y/N) N Init. Calib. Times: 1021 1337

GC Column: DB-1 ID: 0.35 (mm)

COMPOUND	$\overline{RRF}$	RRF10	MIN RRF	%D	MAX %D
Chloromethane	0.725	0.622	0.1	14.2	30.0
Vinyl Chloride	0.783	0.690	0.01	11.9	30.0
Bromomethane	1.011	0.846	0.01	16.3	30.0
Chloroethane	0.458	0.401	0.01	12.4	30.0
Trichlorofluoromethane	2.588	2.122	0.01	18.0	30.0
Methylene Chloride	1.168	0.871	0.01	25.4	30.0
1,1-Dichloroethane	1.883	1.475	0.1	21.7	30.0
Chloroform	2.399	1.918	0.01	20.0	30.0
1,1,1-Trichloroethane	2.294	1.848	0.01	19.4	30.0
Carbon Tetrachloride	0.497	0.406	0.01	18.3	30.0
Benzene	0.685	0.516	0.01	24.7	30.0
1,2-Dichloroethane	1.682	1.309	0.01	22.2	30.0
Trichloroethene	0.315	0.268	0.01	14.9	30.0
1,2-Dichloropropane	0.262	0.225	0.01	14.1	30.0
cis-1,3-Dichloropropene	0.410	0.325	0.01	20.7	30.0
Toluene	0.501	0.402	0.01	19.8	30.0
trans-1,3-Dichloropropene	0.320	0.231	0.01	27.8	30.0
1,1,2-Trichloroethane	0.273	0.236	0.01	13.6	30.0
Tetrachloroethene	0.374	0.299	0.01	20.0	30.0
Chlorobenzene	0.648	0.521	0.3	19.6	30.0
Ethylbenzene	1.120	0.906	0.01	19.1	30.0
Xylene (total)	1.221	0.970	0.01	20.6	30.0
Styrene	0.541	0.429	0.01	20.7	30.0
Xylene (m,p)	0.410	0.324	0.01	21.0	30.0
Xylene (o)	0.401	0.322	0.01	19.7	30.0
1,1,2,2-Tetrachloroethane	0.686	0.575	0.01	16.2	30.0
1,3-Dichlorobenzene	0.621	0.483	0.01	22.2	30.0
1,4-Dichlorobenzene	0.639	0.572	0.01	10.5	30.0
1,2-Dichlorobenzene	0.531	0.464	0.01	12.6	30.0

FORM 8
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 79442

Lab File ID (Standard): CB010N Date Analyzed: 08/22/00

Instrument ID: W Time Analyzed: 1012

GC Column: DB-1 ID: 0.35 (mm) Heated Purge: (Y/N) N

		IS1 (BCM) AREA #	RT #	IS2 (CBZ) AREA #	RT #	IS3 (DFB) AREA #	RT #
	12 HOUR STD	475369	7.62	2473950	11.81	2230981	8.96
	UPPER LIMIT	1140886	7.95	5937480	12.14	5354354	9.29
	LOWER LIMIT	190148	7.29	989580	11.48	892392	8.63
	CLIENT SAMPLE NO.						
01	U9_LCS	469035	7.64	2321631	11.83	2136652	8.96
02	ABLKU9	495688	7.59	2372753	11.81	2329003	8.94
03	CAIA08150003	519535	7.61	2560496	11.81	2602928	8.94
04	A2IA08150003	477577	7.62	2764044	11.82	2212416	8.96
05	CAEA08150003	518746	7.61	2408816	11.84	2312538	8.96
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IS1 (BCM) = Bromochloromethane
IS2 (CBZ) = Chlorobenzene-d5
IS3 (DFB) = 1,4-Difluorobenzene

AREA UPPER LIMIT = +140% of internal standard area
AREA LOWER LIMIT = - 60% of internal standard area
RT UPPER LIMIT = + 0.33 minutes of internal standard RT
RT LOWER LIMIT = - 0.33 minutes of internal standard RT

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

Committed To *Your* Success

79442

Committed To *Your* Success

SEVERN
TRENT
SERVICES

Severn Trent Laboratories, Inc.

NARRATIVE

SEVERN TRENT SERVICES

STL Burlington
Suite 1
208 South Park Drive
Colchester, VT 05446

Tel: 802 655 1203
Fax: 802 655 1248
www.stl-inc com

August 30, 2000

Mr. Jeff Wilmoth
Accura Analytical Laboratories
6017 Financial Drive
Norcross, GA 30071

Re: Laboratory Project No. 20031
Case: 20031; SDG:79442

Dear Mr. Wilmoth:

Enclosed are the analytical results of samples received intact by Severn Trent Laboratories on August 18, 2000. Laboratory numbers have been assigned and designated as follows:

Lab ID	Client Sample ID	Sample Date	Sample Matrix
	Received: 8/18/00 ETR No: 79442		
427756	029ACAIA08150003	08/15/00	Air
427757	029ACA2IA08150003	08/15/00	Air
427758	029ACAEA08150003	08/15/00	Air

Method TO-14A Modified-Volatile Organics;
Please note due to a limitation of characters inherent in the reporting software, the first four characters of the client identification above were truncated.

Please note that the volatile organic analysis of sample CAIA08150003 was accomplished at a dilution based upon initial screen data that indicated target compound Toluene was present at concentrations that would have been above the calibration in a full strength acquisition.

If there are any questions regarding this submittal, please contact Ron Pentkowski at (802) 655-1203.

Sincerely,

Christopher A. Ouellette
Laboratory Director

CAO/bas
Enclosure

00072A

The following Qualifiers may be used when reporting any Organic parameters analyzed by Gas Chromatography/mass Spectometry (GCMS). Any additional qualifiers used in the reports will be described in the case narrative. These flags are based on the EPA Contract Laboratory Program statement of work.

GC/MS Qualifiers

A- The reported Tentatively Identified Compound (TIC) is a suspected Aldol-condensation product.

B- The reported analyte was detected in the associated method blank as well as the sample.

D - This flag identifies all compounds identified in an analysis at a secondary dilution factor. This flag alerts data users that any discrepancies between the concentrations reported for the dilutions may be due to dilution of the sample or extract. It additionally indicates that spike recoveries may have been diluted below quantifiable levels.

E- Compound quantitation is above the instrument's calibration range for this analysis.

J - Indicates an estimated value. This flag is used when the result is less than the reporting limit, but > ½ reporting limit.

U- Indicates compound was analyzed for but not detected above the reporting limit.

X,Y,Z - Laboratory defined flags. These flags must be fully described, and such description attached to the Sample Data Summary Package and the case Narrative. Begin by using "X" and go on to "Y" as necessary. These flags may also be used to combine several flags, as needed.

CH2M Hill Constructors, Inc.
115 Perimeter Center Place Suite 700
Atlanta GA 30346-1278
Tel No (770) 604-9182 Fax No (770) 604-9282

CHAIN-OF-CUSTODY RECORD

COC NUMBER
154282-02

PROJECT NAME	PROJECT NUMBER	LAB NAME AND CONTACT	FAX AND MAIL REPORTS/EDD TO RECIPIENT 1 (Name and Company)	RECIPIENT 1 (Address, Tel No , and Fax No)
N.A.S Cecil Field 103rd Street	154282	Severn Trent Laboratories/ Ron Pentkowski	Jeff Wilmoth Accura Analytical Laboratory	6017 Financial Drive Norcross, GA 30071 (770) 449-8800 Fax:(770) 449-5477
PROJECT PHASE/SITE/TASK	CTO OR DO NUMBER	LAB PO NUMBER	FAX AND MAIL REPORTS/EDD TO RECIPIENT 2 (Name and Company)	RECIPIENT 2 (Address, Tel No , and Fax No)
103rd Street Monthly Air	0029	1760	Keith Conn / J.A Jones Env. Services	6219 Authority Ave. Building 1 Jacksonville, FL 32215 (904) 7774812 FAX: (904) 7774262
PROJECT CONTACT	PROJECT TEL NO AND FAX NO	LAB TEL NO AND FAX NO	FAX AND MAIL REPORTS/EDD TO RECIPIENT 3 (Name and Company)	RECIPIENT 3 (Address, Tel No , and Fax No)
Keith Conn	Ph:(904)777-4812 Fax:(904) 777-4262	Ph:(802) 655-1203	Lisa Schwan / CH2M Hill Constuctors, Inc.	115 Perimeter Center Place, N.E. Suite 700 Atlanta, GA 3034 (770)604-9182 Ext.561 FAX:604-9282

ITEM	SAMPLE IDENTIFIER	SAMPLE DESCRIPTION/LOCATION	MATRIX (see codes on back)	DATE COLLECTED	TIME COLLECTED	DATA PKG LEVEL (see codes on back)	TAT (calendar days)	ANALYSES REQUIRED (Include Method Numbers) Volatiles by 18 / TO 14									SAMPLE TYPE (see codes on back)	COMMENTS/ SCREENING READINGS	LAB ID
1	029-ACA-I-A-0815-00-03	Pre Carbon Units	A	08/15/00	9:25	III/B	7	1									Grab	Summa Canister	
2	029-ACA2-I-A-0815-00-03	Mid Carbon Units	A	08/15/00	9:30	III/B	7	1									Grab	Summa Canister	
3	029-ACA-E-A-0815-00-03	Post Carbon Units	A	08/15/00	9:35	III/B	7	1									Grab	Summa Canister	
4																			
5																			
6																			
7																			
8																			
9																			
10																			

SAMPLER(S) AND COMPANY (please print)	COURIER AND SHIPPING NUMBER	SAMPLES TEMPERATURE AND CONDITION UPON RECEIPT
Randy Dumaop J.A. Jones Environmental Services	Federal Express TRK# 791128430140	

RELINQUISHED BY	DATE	TIME	RECEIVED BY	DATE	TIME
Printed Name and Signature			Printed Name and Signature		
R.Dumaop	8/16/00	11:00	Federal Express TRK# 791128430140	8/16/00	11:00
Printed Name and Signature			Printed Name and Signature		
Printed Name and Signature			Printed Name and Signature		
			Scott Lavigne	8/18/00	0920

SEVERN TRENT SERVICES

Severn Trent Laboratories, Inc.

METHOD TO-14A
VOLATILE ORGANIC ANALYSIS

QC SUMMARY

FORM 2
AIR VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 79442

	STLVT SAMPLE NO.	SMC1 #	SMC2 #	SMC3 #	OTHER	TOT OUT
01	ICV_LCS					0
02	U9_LCS					0
03	ABLKU9					0
04	CAIA08150003					0
05	A2IA08150003					0
06	CAEA08150003					0
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QC LIMITS

Column to be used to flag recovery values

* Values outside of contract required QC limits

D System Monitoring Compound diluted out

FORM 3
AIR VOLATILE LAB CONTROL SAMPLE

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 79442

Matrix Spike - STLVT Sample No.: ICV_LCS

COMPOUND	SPIKE ADDED (ppbv)	SAMPLE CONCENTRATION (ug/L)	LCS CONCENTRATION (ppbv)	LCS % REC #	QC. LIMITS REC.
Chloromethane	10		11	110	70-130
Vinyl Chloride	10		11	110	70-130
Bromomethane	10		10	100	70-130
Chloroethane	10		11	110	70-130
Trichlorofluoromethane	10		10	100	70-130
Methylene Chloride	10		10	100	70-130
1,1-Dichloroethane	10		11	110	70-130
Chloroform	10		11	110	70-130
1,1,1-Trichloroethane	10		11	110	70-130
Carbon Tetrachloride	10		10	100	70-130
Benzene	10		10	100	70-130
1,2-Dichloroethane	10		10	100	70-130
Trichloroethene	10		10	100	70-130
1,2-Dichloropropane	10		10	100	70-130
cis-1,3-Dichloropropene	10		11	110	70-130
Toluene	10		9.3	93	70-130
trans-1,3-Dichloroprope	10		11	110	70-130
1,1,2-Trichloroethane	10		10	100	70-130
Tetrachloroethene	10		9.2	92	70-130
Chlorobenzene	10		9.0	90	70-130
Ethylbenzene	10		9.4	94	70-130
Styrene	10		8.8	88	70-130
Xylene (m,p)	20		18	90	70-130
Xylene (o)	10		9.3	93	70-130
1,1,2,2-Tetrachloroetha	10		9.3	93	70-130
1,3-Dichlorobenzene	10		9.0	90	70-130
1,4-Dichlorobenzene	10		8.0	80	70-130
1,2-Dichlorobenzene	10		8.6	86	70-130

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

* Values outside of QC limits

RPD: 0 out of 0 outside limits
Spike Recovery: 0 out of 28 outside limits

COMMENTS: _____

FORM 3
AIR VOLATILE LAB CONTROL SAMPLE

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 79442

Matrix Spike - Sample No.: U9_LCS

COMPOUND	SPIKE ADDED (ppbv)	SAMPLE CONCENTRATION (ug/L)	LCS CONCENTRATION (ppbv)	LCS % REC #	QC. LIMITS REC.
Chloromethane	10		8.5	85	70-130
Vinyl Chloride	10		9.0	90	70-130
Bromomethane	10		8.7	87	70-130
Chloroethane	10		9.2	92	70-130
Trichlorofluoromethane	10		8.8	88	70-130
Methylene Chloride	10		7.9	79	70-130
1,1-Dichloroethane	10		8.3	83	70-130
Chloroform	10		8.4	84	70-130
1,1,1-Trichloroethane	10		8.5	85	70-130
Carbon Tetrachloride	10		9.0	90	70-130
Benzene	10		8.3	83	70-130
1,2-Dichloroethane	10		8.3	83	70-130
Trichloroethene	10		8.4	84	70-130
1,2-Dichloropropane	10		7.6	76	70-130
cis-1,3-Dichloropropene	10		8.8	88	70-130
Toluene	10		8.6	86	70-130
trans-1,3-Dichloroprope	10		8.2	82	70-130
1,1,2-Trichloroethane	10		9.1	91	70-130
Tetrachloroethene	10		8.4	84	70-130
Chlorobenzene	10		8.4	84	70-130
Ethylbenzene	10		8.7	87	70-130
Styrene	10		8.6	86	70-130
Xylene (m,p)	20		17	85	70-130
Xylene (o)	10		8.5	85	70-130
1,1,2,2-Tetrachloroetha	10		8.7	87	70-130
1,3-Dichlorobenzene	10		8.6	86	70-130
1,4-Dichlorobenzene	10		7.3	73	70-130
1,2-Dichlorobenzene	10		8.1	81	70-130

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

* Values outside of QC limits

RPD: 0 out of 0 outside limits
Spike Recovery: 0 out of 28 outside limits

COMMENTS: _____

FORM 4
VOLATILE METHOD BLANK SUMMARY

CLIENT SAMPLE NO.

ABLKU9

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 79442

Lab File ID: CBB001N Lab Sample ID: ABLKU9

Date Analyzed: 08/22/00 Time Analyzed: 1124

GC Column: DB-1 ID: 0.35 (mm) Heated Purge: (Y/N) N

Instrument ID: W

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

	SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	U9_LCS	U9_LCS	CB010NQ	1053
02	CAIA08150003	427756	427756D	1340
03	A2IA08150003	427757	427757	1413
04	CAEA08150003	427758	427758	1446
05				
06				
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COMMENTS:

FORM 5
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 79442

Lab File ID: CB014P BFB Injection Date: 08/22/00

Instrument ID: W BFB Injection Time: 0952

GC Column: DB-1 ID: 0.32 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	21.1
75	30.0 - 66.0% of mass 95	47.5
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.8
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	50.0 - 120.0% of mass 95	67.6
175	4.0 - 9.0% of mass 174	4.8 (7.0)1
176	93.0 - 101.0% of mass 174	65.0 (96.3)1
177	5.0 - 9.0% of mass 176	4.3 (6.7)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	ASTD010	ASTD010	CB010N	08/22/00	1012
02	U9_LCS	U9_LCS	CB010NQ	08/22/00	1053
03	ABLKU9	ABLKU9	CBB001N	08/22/00	1124
04	CAIA08150003	427756	427756D	08/22/00	1340
05	A2IA08150003	427757	427757	08/22/00	1413
06	CAEA08150003	427758	427758	08/22/00	1446
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

FORM 8
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 79442

Lab File ID (Standard): CB010N Date Analyzed: 08/22/00

Instrument ID: W Time Analyzed: 1012

GC Column: DB-1 ID: 0.35 (mm) Heated Purge: (Y/N) N

		IS1 (BCM) AREA #	RT #	IS2 (CBZ) AREA #	RT #	IS3 (DFB) AREA #	RT #
	12 HOUR STD	475369	7.62	2473950	11.81	2230981	8.96
	UPPER LIMIT	1140886	7.95	5937480	12.14	5354354	9.29
	LOWER LIMIT	190148	7.29	989580	11.48	892392	8.63
	CLIENT SAMPLE NO.						
01	U9_LCS	469035	7.64	2321631	11.83	2136652	8.96
02	ABLKU9	495688	7.59	2372753	11.81	2329003	8.94
03	CAIA08150003	519535	7.61	2560496	11.81	2602928	8.94
04	A2IA08150003	477577	7.62	2764044	11.82	2212416	8.96
05	CAEA08150003	518746	7.61	2408816	11.84	2312538	8.96
06							
07							
08							
09							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							

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

AREA UPPER LIMIT = +140% of internal standard area
AREA LOWER LIMIT = - 60% of internal standard area
RT UPPER LIMIT = + 0.33 minutes of internal standard RT
RT LOWER LIMIT = - 0.33 minutes of internal standard RT

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

SEVERN TRENT SERVICES

Severn Trent Laboratories, Inc.

METHOD TO-14A
VOLATILE ORGANIC ANALYSIS

SUPPORTIVE DOCUMENTATION

SEVERN TRENT SERVICES

Severn Trent Laboratories, Inc.

METHOD TO-14A
VOLATILE ORGANIC ANALYSIS

STANDARDS

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

ACCANA SAMPLE NO.

A2IA08150003

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 79442

Matrix: (soil/water) AIR Lab Sample ID: 427757

Sample wt/vol: 200 (g/mL) ML Lab File ID: 427757

Level: (low/med) LOW Date Received: 08/18/00

% Moisture: not dec. _____ Date Analyzed: 08/22/00

GC Column: DB-1 ID: 0.35 (mm) Dilution Factor: 1.0

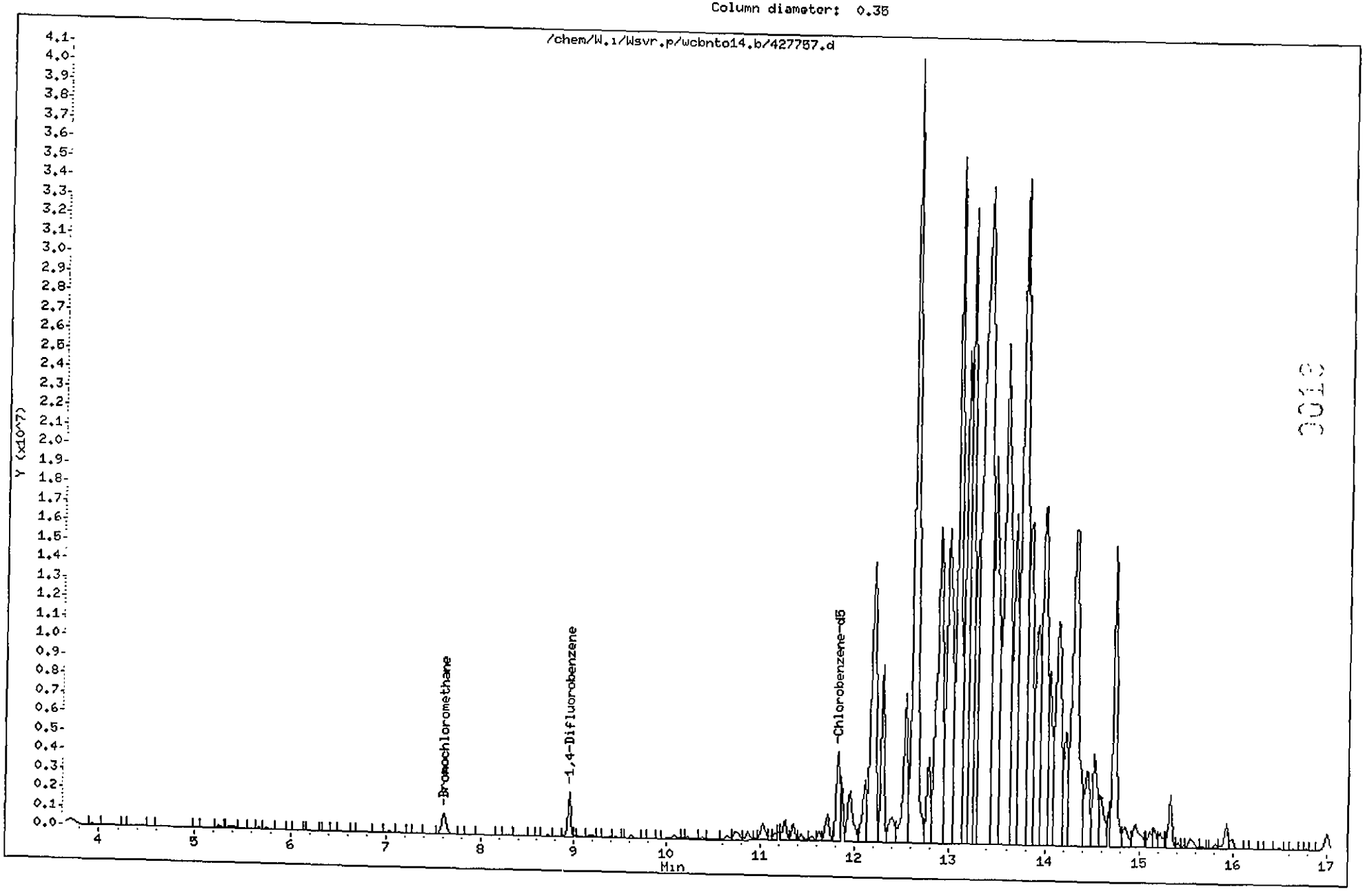
Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) PPBV	Q
74-87-3	Chloromethane	0.53	
75-01-4	Vinyl Chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-09-2	Methylene Chloride	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
56-23-5	Carbon Tetrachloride	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-88-3	Toluene	0.50	U
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	2.2	
1330-20-7	Xylene (total)	54	
100-42-5	Styrene	0.50	U
1330-20-7	Xylene (m,p)	30	
95-47-6	Xylene (o)	24	
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U

Data File: /chem/W.i/Wsvr.p/wcbnto14.b/427757.d
Date : 22-AUG-2000 14:13
Client ID: A2IA08150003
Sample Info: 427757;029ACA2IA08150003;79442;0822U9
Purge Volume: 200.0
Column phase: DB-1

Instrument: W.i

Operator: CMM
Column diameter: 0.35



STL Burlington

AIR TOXICS QUANTITATION REPORT

Data file : /chem/W.i/Wsvr.p/wcbnto14.b/427757.d
Lab Smp Id: 427757 Client Smp ID: A2IA08150003
Inj Date : 22-AUG-2000 14:13
Operator : GMM Inst ID: W.i
Smp Info : 427757;029ACA2IA08150003;79442;0822U9
Misc Info :
Comment :
Method : /chem/W.i/Wsvr.p/wcbnto14.b/ato14.m
Meth Date : 30-Aug-2000 16:03 mim Quant Type: ISTD
Cal Date : 10-JUL-2000 13:37 Cal File: cb0005i2.d
Als bottle: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ACCANA.sub
Target Version: 3.50
Processing Host: chemsvr4

Concentration Formula: Amt * DF * X* Uf/Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
X	200.00000	method volume factor
Uf	1.00000	ng unit correction factor
Vo	200.00000	Sample Volume purged (mL)

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)
	2 Chloromethane	50	3.939	3.925	(0.517)	18342	0.52985	0.53(H)
	4 Vinyl Chloride	62	Compound Not Detected.					
	5 Bromomethane	94	Compound Not Detected.					
	6 Chloroethane	64	Compound Not Detected.					
	7 Trichlorofluoromethane	101	Compound Not Detected.					
	9 Methylene Chloride	49	Compound Not Detected.					
	11 1,1-Dichloroethane	63	Compound Not Detected.					
*	13 Bromochloromethane	128	7.621	7.621	(1.000)	477577	10.0000	
	14 Chloroform	83	Compound Not Detected.					
	15 1,2-Dichloroethane	62	Compound Not Detected.					
	16 1,1,1-Trichloroethane	97	Compound Not Detected.					
	17 Benzene	78	Compound Not Detected.					
	18 Carbon Tetrachloride	117	Compound Not Detected.					
*	19 1,4-Difluorobenzene	114	8.956	8.956	(1.000)	2212416	10.0000	
	20 1,2-Dichloropropane	63	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	FINAL (ppbv)
	21 Trichloroethene	95	Compound Not Detected.					
	22 cis-1,3-Dichloropropene	75	Compound Not Detected.					
	23 trans-1,3-Dichloropropene	75	Compound Not Detected.					
	24 1,1,2-Trichloroethane	83	Compound Not Detected.					
	25 Toluene	92	Compound Not Detected.					
	27 Tetrachloroethene	166	Compound Not Detected.					
*	28 Chlorobenzene-d5	117	11.824	11.809	(1.000)	2764044	10.0000	
	29 Chlorobenzene	112	Compound Not Detected.					
	30 Ethylbenzene	91	12.082	12.082	(1.022)	682033	2.20351	2.2
	31 Xylene (m,p)	106	12.204	12.188	(1.032)	3420459	30.1713	30
	32 Styrene	104	Compound Not Detected.					
M	33 Xylene (total)	106				6047934	53.8957	54
	34 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					
	35 Xylene (o)	106	12.538	12.522	(1.060)	2627475	23.7245	24
	38 1,3-Dichlorobenzene	146	Compound Not Detected.					
	39 1,4-Dichlorobenzene	146	Compound Not Detected.					
	40 1,2-Dichlorobenzene	146	Compound Not Detected.					

QC Flag Legend

H - Operator selected an alternate compound hit.

STL Burlington

AIR TOXICS QUANTITATION REPORT

Data file : /chem/W.i/Wsvr.p/wcbnto14.b/427757.d
Lab Smp Id: 427757 Client Smp ID: A2IA08150003
Inj Date : 22-AUG-2000 14:13
Operator : GMM Inst ID: W.i
Smp Info : 427757;029ACA2IA08150003;79442;0822U9
Misc Info :
Comment :
Method : /chem/W.i/Wsvr.p/wcbnto14.b/ato14.m
Meth Date : 30-Aug-2000 16:03 mim Quant Type: ISTD
Cal Date : 10-JUL-2000 13:37 Cal File: cb0005i2.d
Als bottle: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ACCANA.sub
Target Version: 3.50
Processing Host: chemsvr4

Concentration Formula: Amt * DF * X* Uf/Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
X	200.00000	method volume factor
Uf	1.00000	ng unit correction factor
Vo	200.00000	Sample Volume purged (mL)

Cpnd Variable Local Compound Variable

ISTD	RT	AREA	AMOUNT
* 28 Chlorobenzene-d5	11.824	15757318	10.000

	CONCENTRATIONS			QUANT			
RT	AREA	ON-COL(ppbv)	FINAL(ppbv)	QUAL	LIBRARY	LIB ENTRY	CPND #
Unknown alkane				CAS #:			
12.629	1.229e+08	77.9939549	78	0		0	28
Unknown alkane				CAS #:			
12.978	82777074	52.5324627	52	0		0	28

		CONCENTRATIONS		QUANT			
RT	AREA	ON-COL(ppbv)	FINAL(ppbv)	QUAL	LIBRARY	ENTRY	CPND #
13.084	1.153e+08	73.1429389	73	0		0	28
Unknown alkane				CAS #:			
13.160	91024749	57.7666498	58	0		0	28
Unknown aliphatic compound				CAS #:			
13.220	1.057e+08	67.0809094	67	0		0	28
Unknown alkane				CAS #:			
13.387	2.218e+08	140.749742	140	0		0	28
Unknown C3-alkylbenzene				CAS #:			
13.585	1.312e+08	83.2847042	83	0		0	28
Unknown aliphatic compound				CAS #:			
13.693	70704064	44.8706200	45	0		0	28
Unknown C4-alkylbenzene				CAS #:			
13.994	83968304	53.2884481	53	0		0	28
Unknown cyclohexane				CAS #:			
14.313	80137444	50.8572858	51	0		0	28

Data File: /chem/W.i/Wsvr.p/wcbnto14.b/427757.d

Date : 22-AUG-2000 14:13

Client ID: A2IA08150003

Instrument. W.i

Sample Info: 427757;029ACA2IA08150003;79442;0822U9

Purge Volume: 200.0

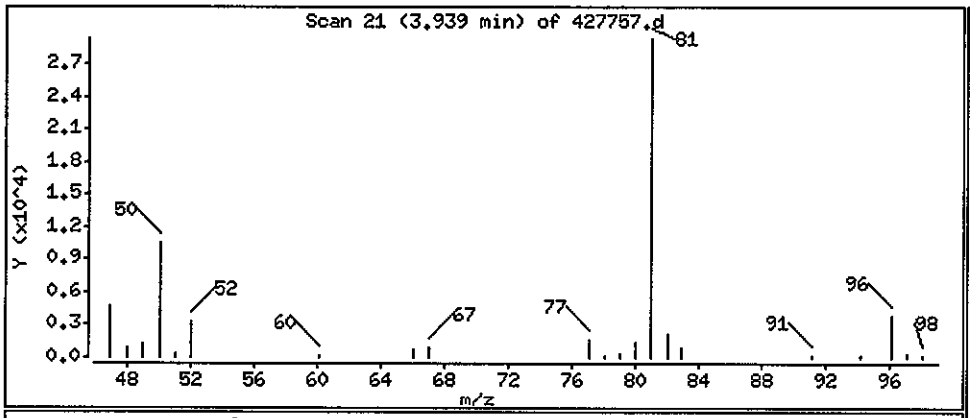
Operator: GMM

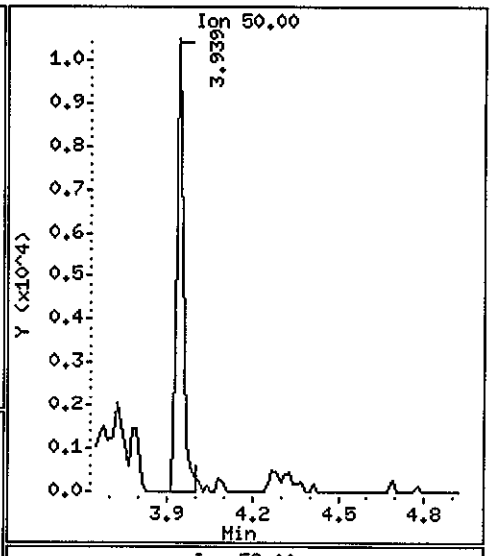
Column phase: DB-1

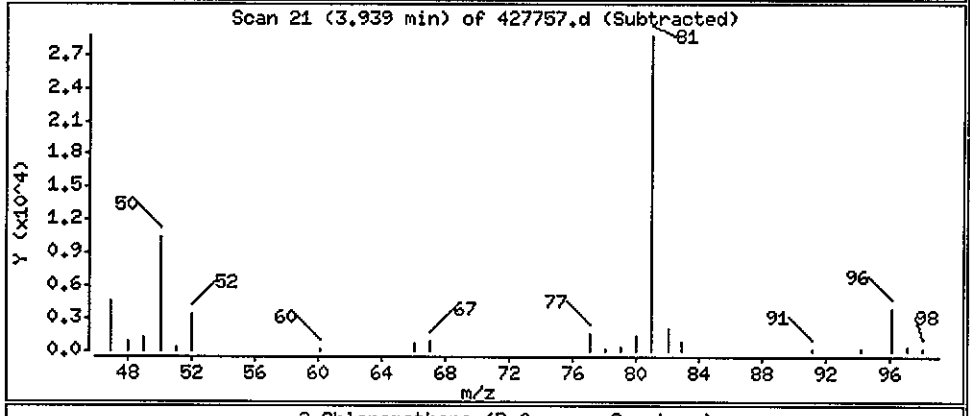
Column diameter: 0.35

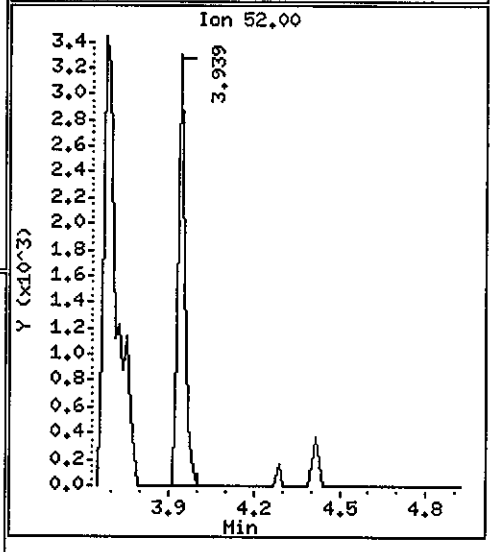
2 Chloromethane

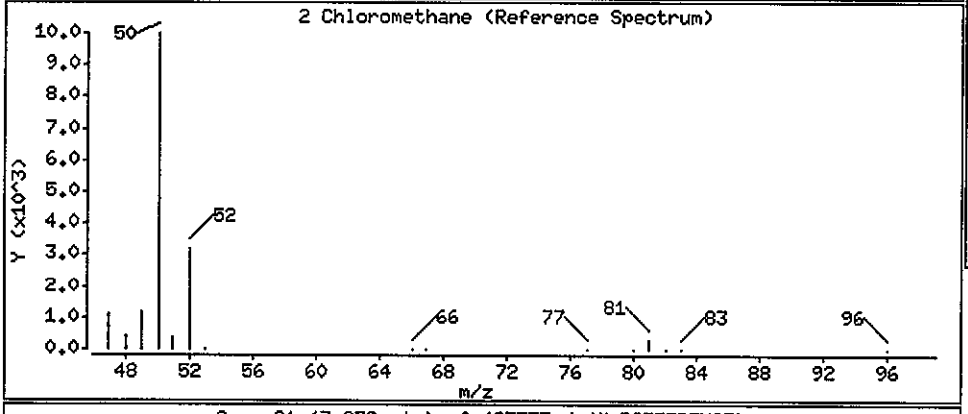
Concentration: 0.53 ppbv

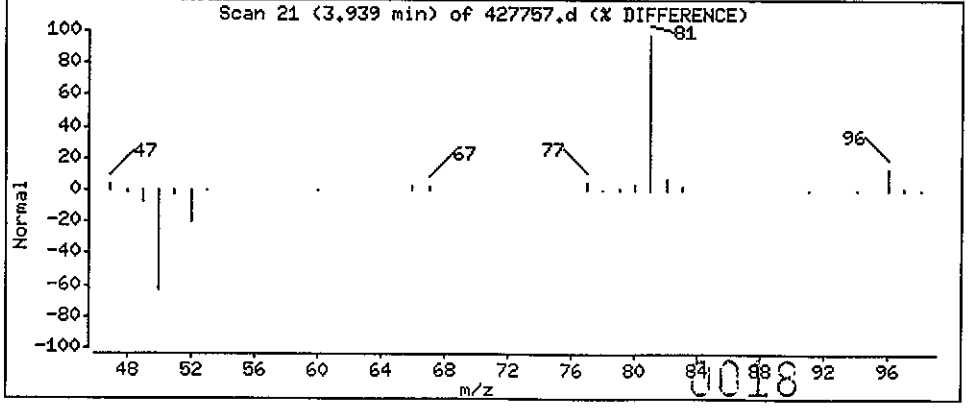


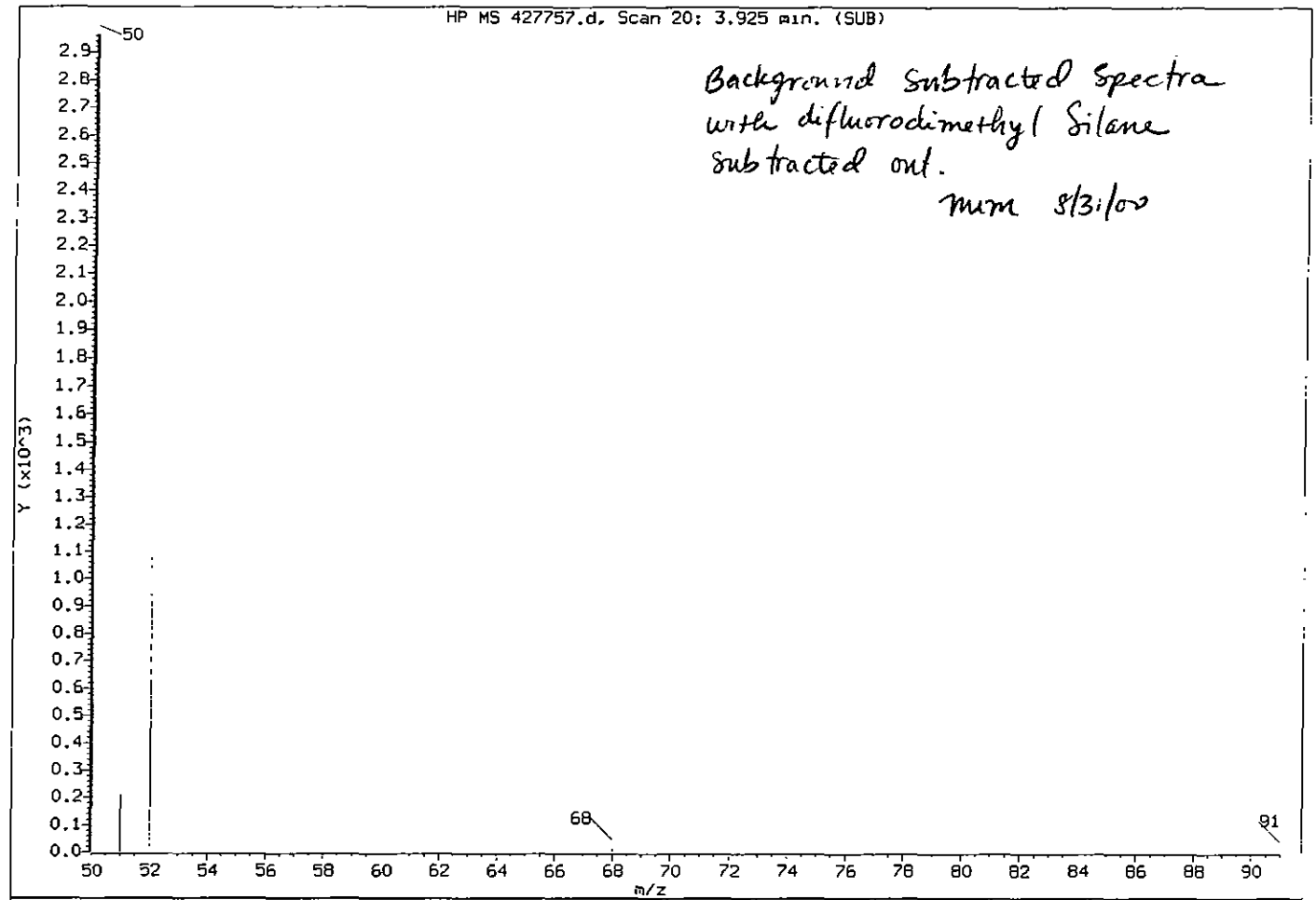






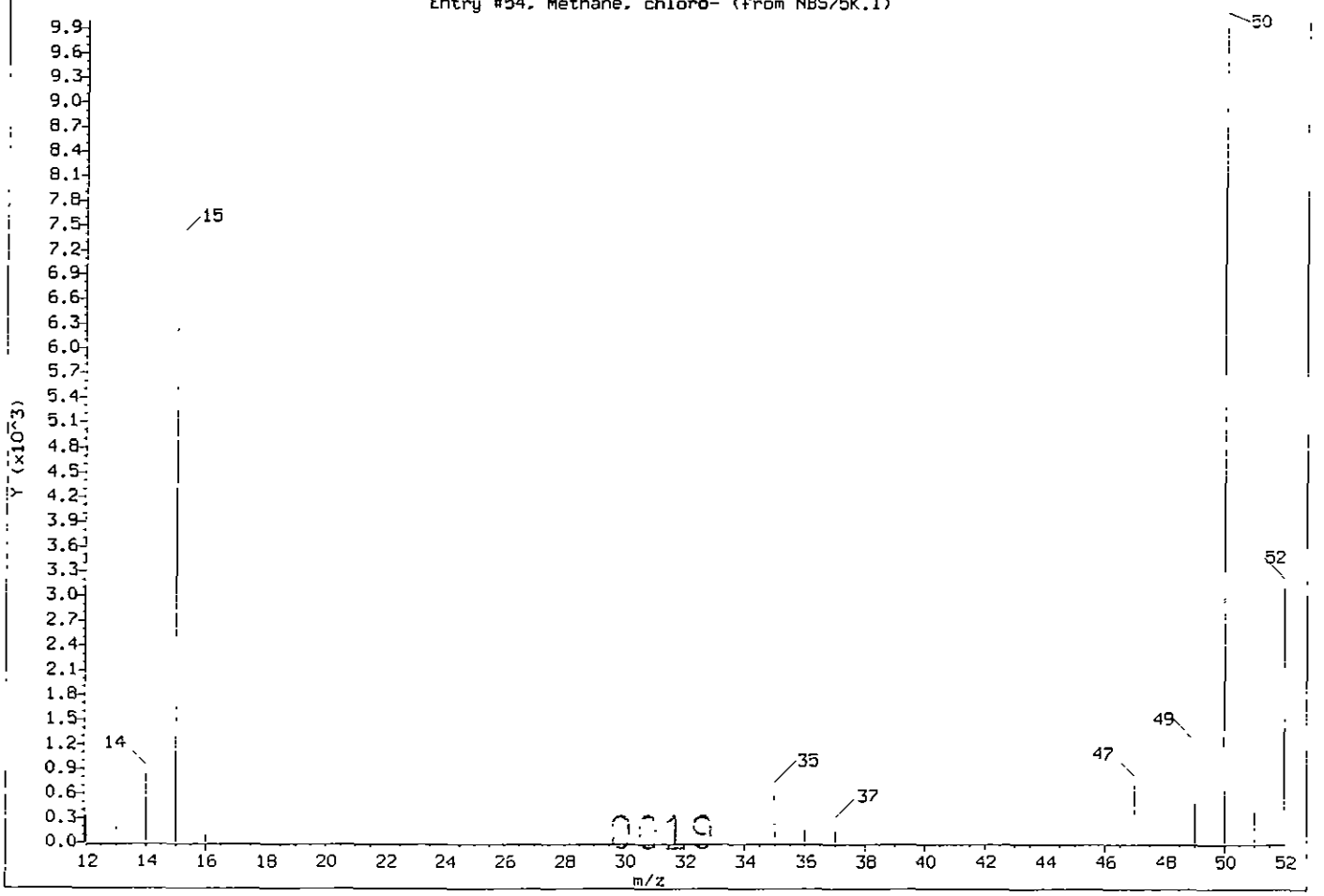






Background Subtracted Spectra with difluorodimethyl Silane subtracted out.

mm 8/31/07



Data File: /chem/W.i/Wsvr.p/wcbnto14.b/427757.d

Date : 22-AUG-2000 14:13

Client ID: A2IA08150003

Instrument: W.i

Sample Info: 427757;029ACA2IA08150003;79442;0822U9

Purge Volume: 200.0

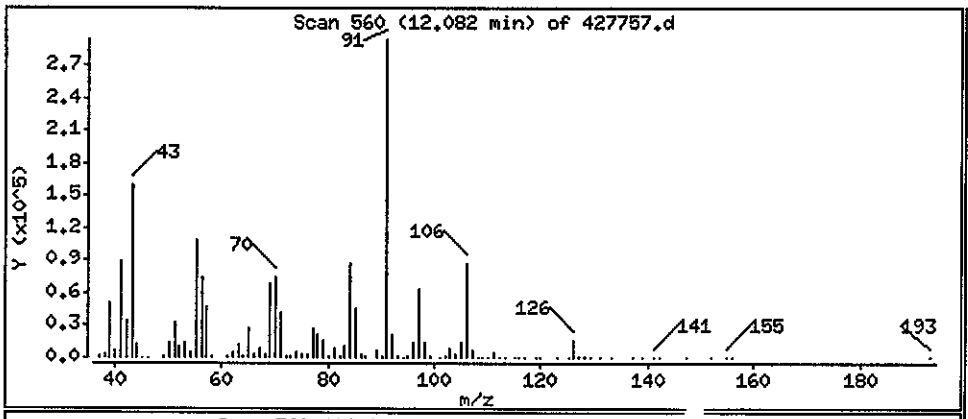
Operator: GMM

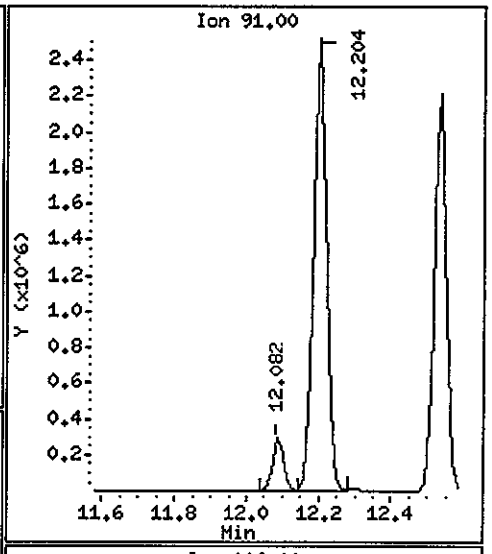
Column phase: DB-1

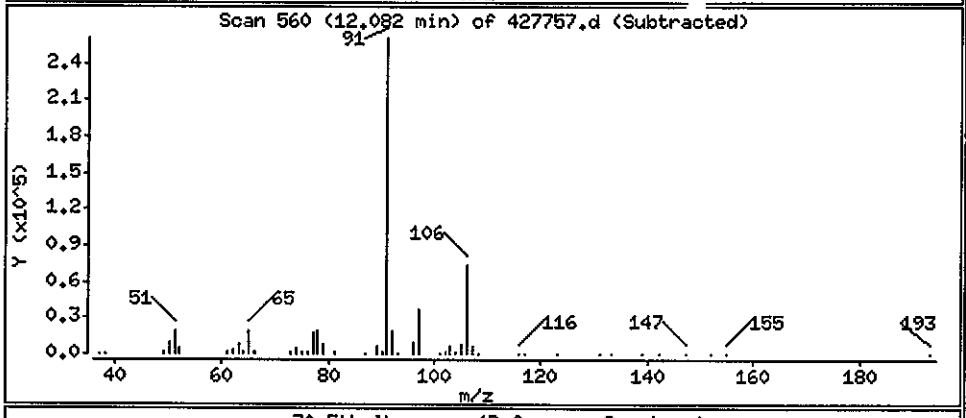
Column diameter: 0.35

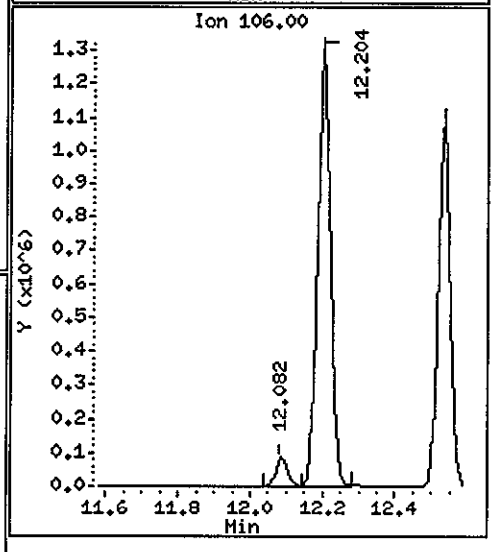
30 Ethylbenzene

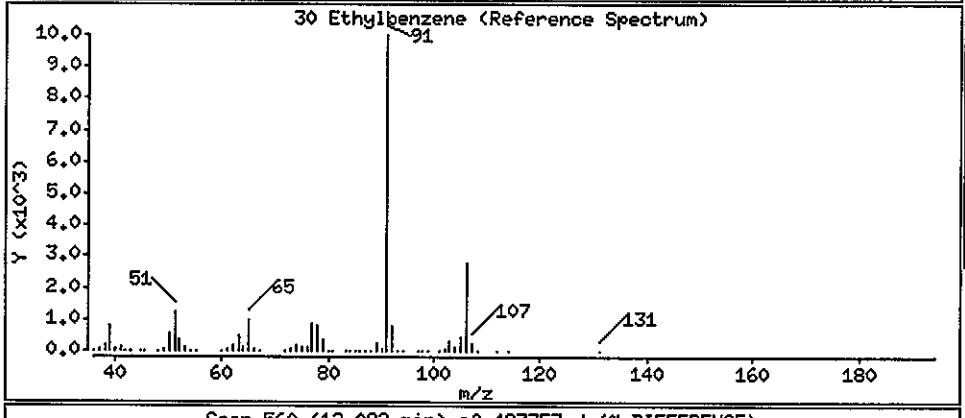
Concentration: 2.2 ppbv

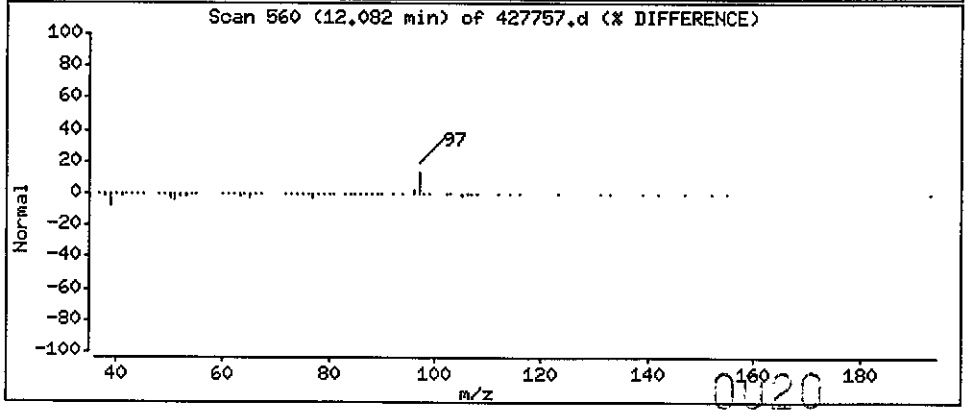












0120

Data File: /chem/W.i/Wsvr.p/wcbnto14.b/427757.d

Date : 22-AUG-2000 14:13

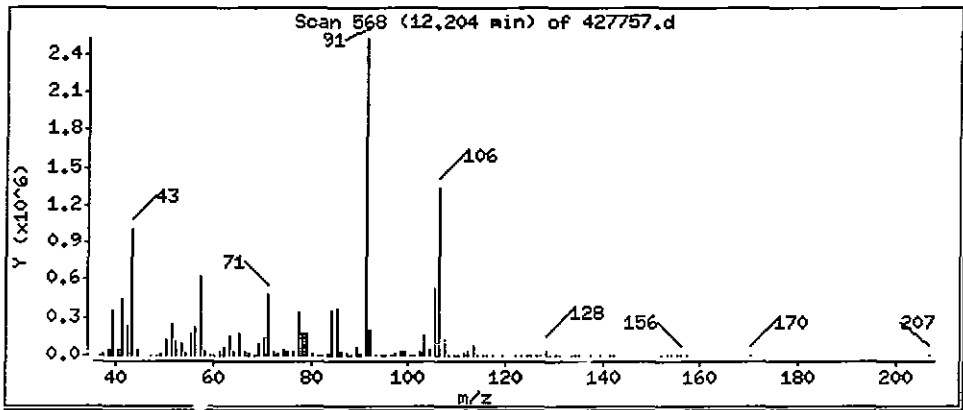
Client ID: A2IA08150003 Instrument: W.i

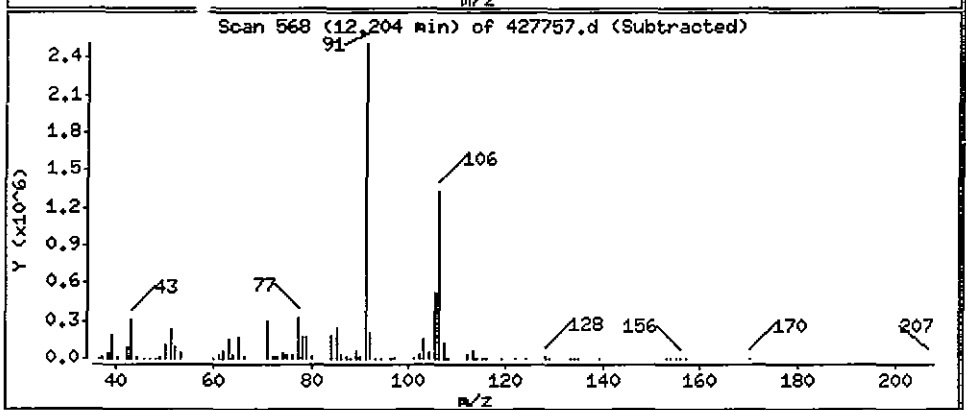
Sample Info: 427757;029ACA2IA08150003;79442;0822U9

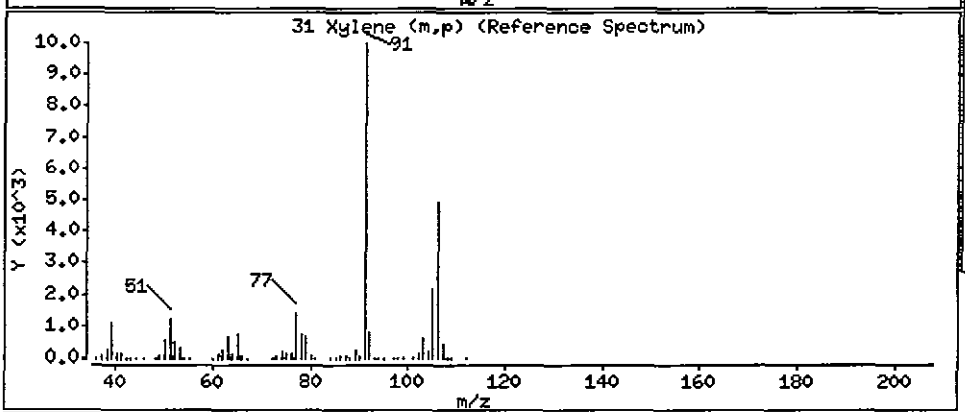
Purge Volume: 200.0 Operator: GMM

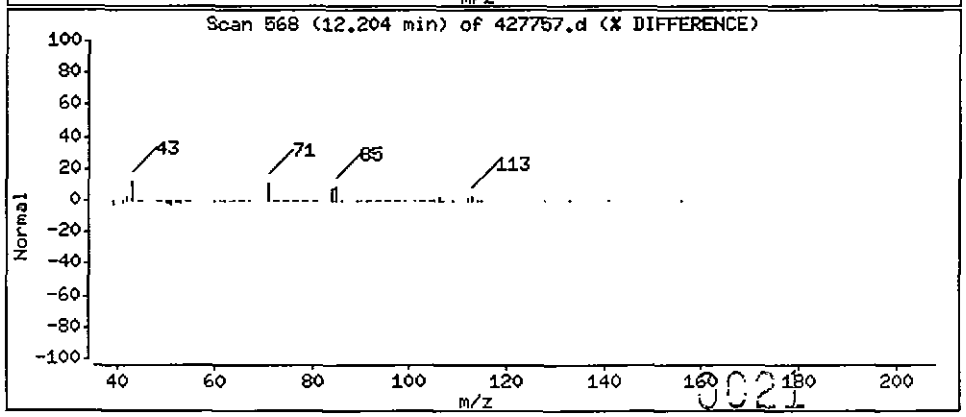
Column phase: DB-1 Column diameter: 0.35

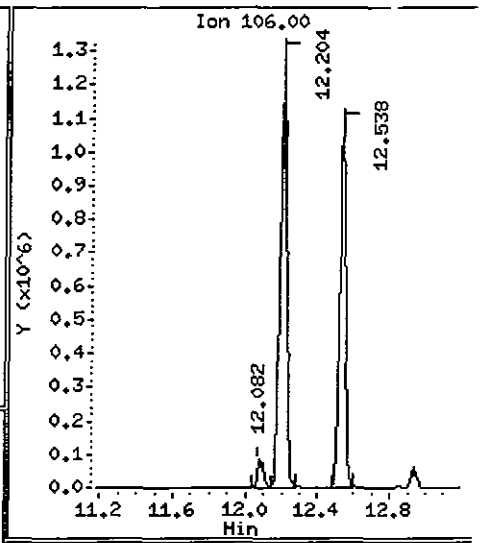
31 Xylene (m,p) Concentration: 30 ppbv

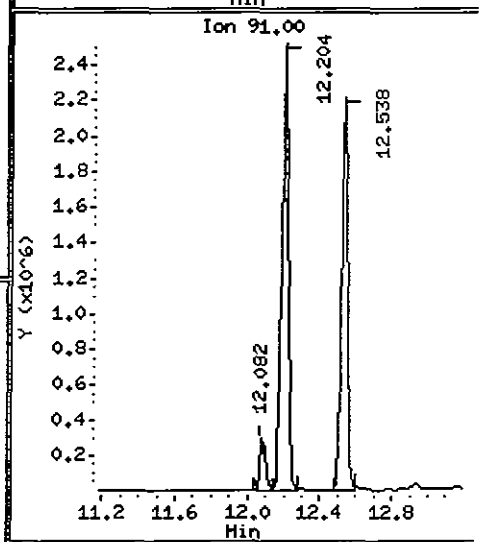












Data File: /chem/W.i/Wsvr.p/wcbnto14.b/427757.d

Date : 22-AUG-2000 14:13

Client ID: A2IA08150003

Instrument: W.i

Sample Info: 427757;029ACA2IA08150003;79442;0E^4

Purge Volume: 200.0

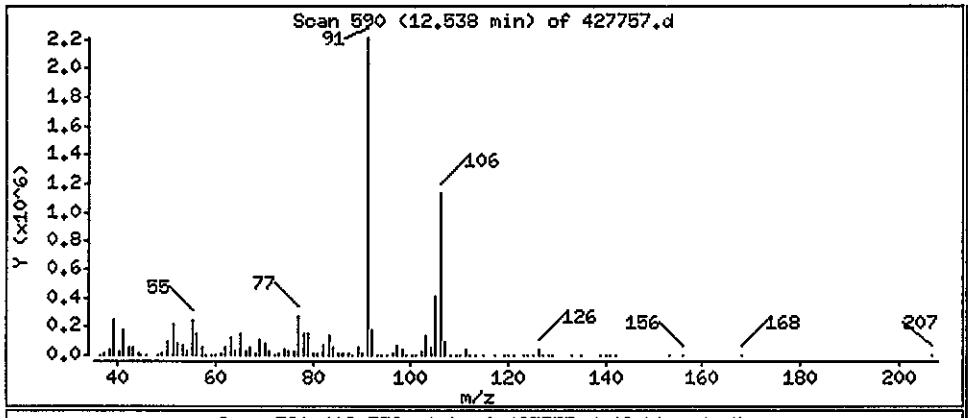
Operator: GMM

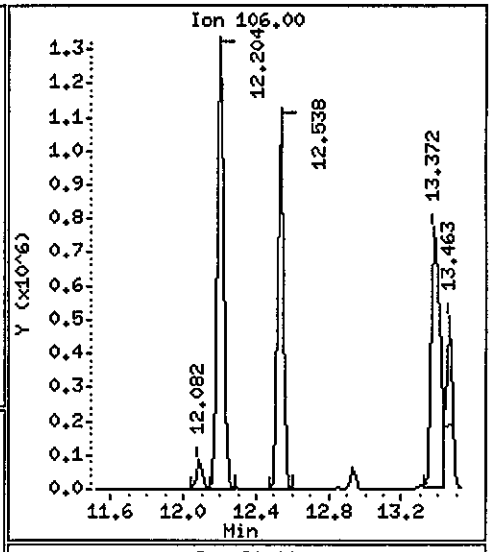
Column phase: DB-1

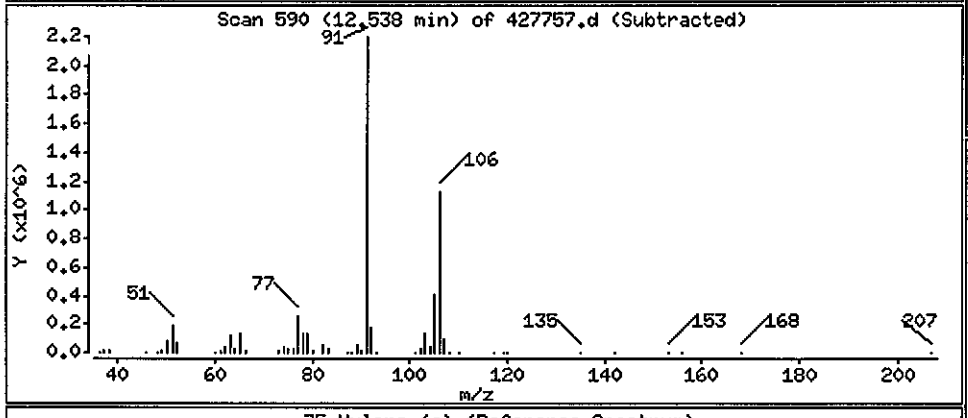
Column diameter: 0.35

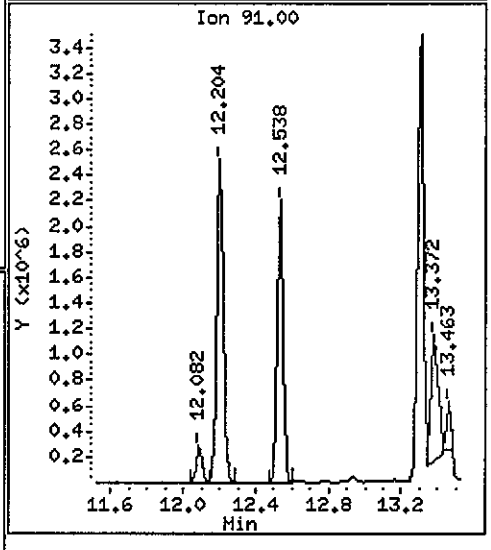
35 Xylene (o)

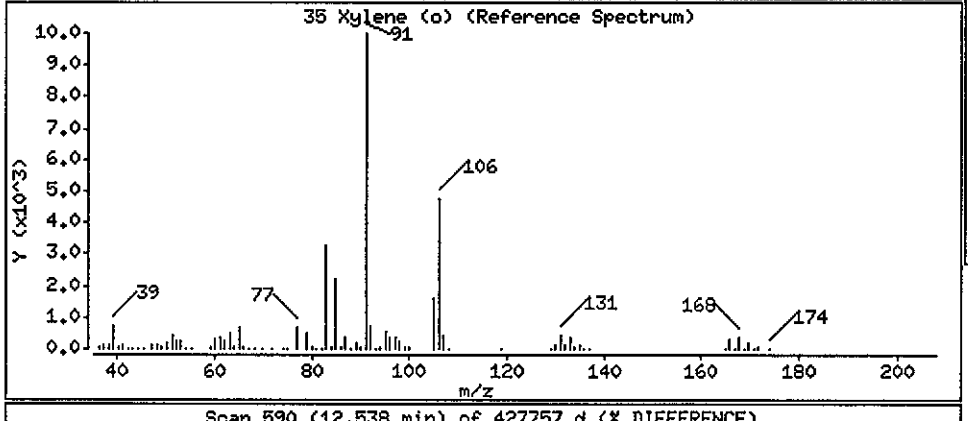
Concentration: 24 ppbv

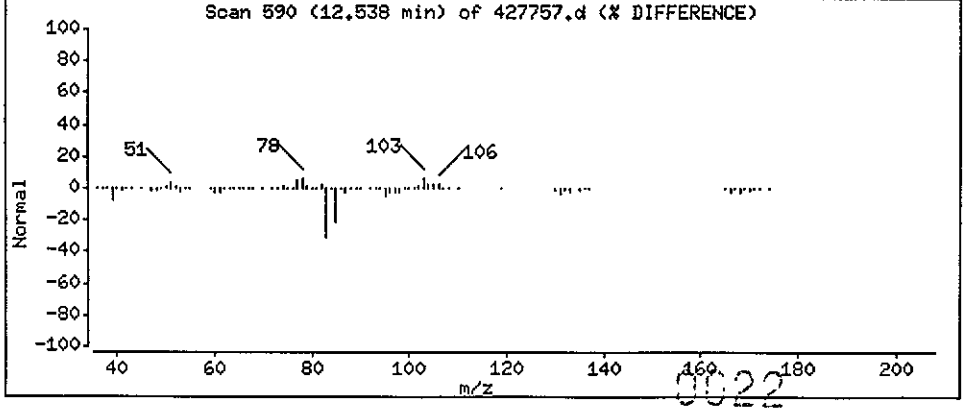












0122

Data File: /chem/W.i/Wsvr.p/wcbnto14.b/427757.d

Date : 22-AUG-2000 14:13

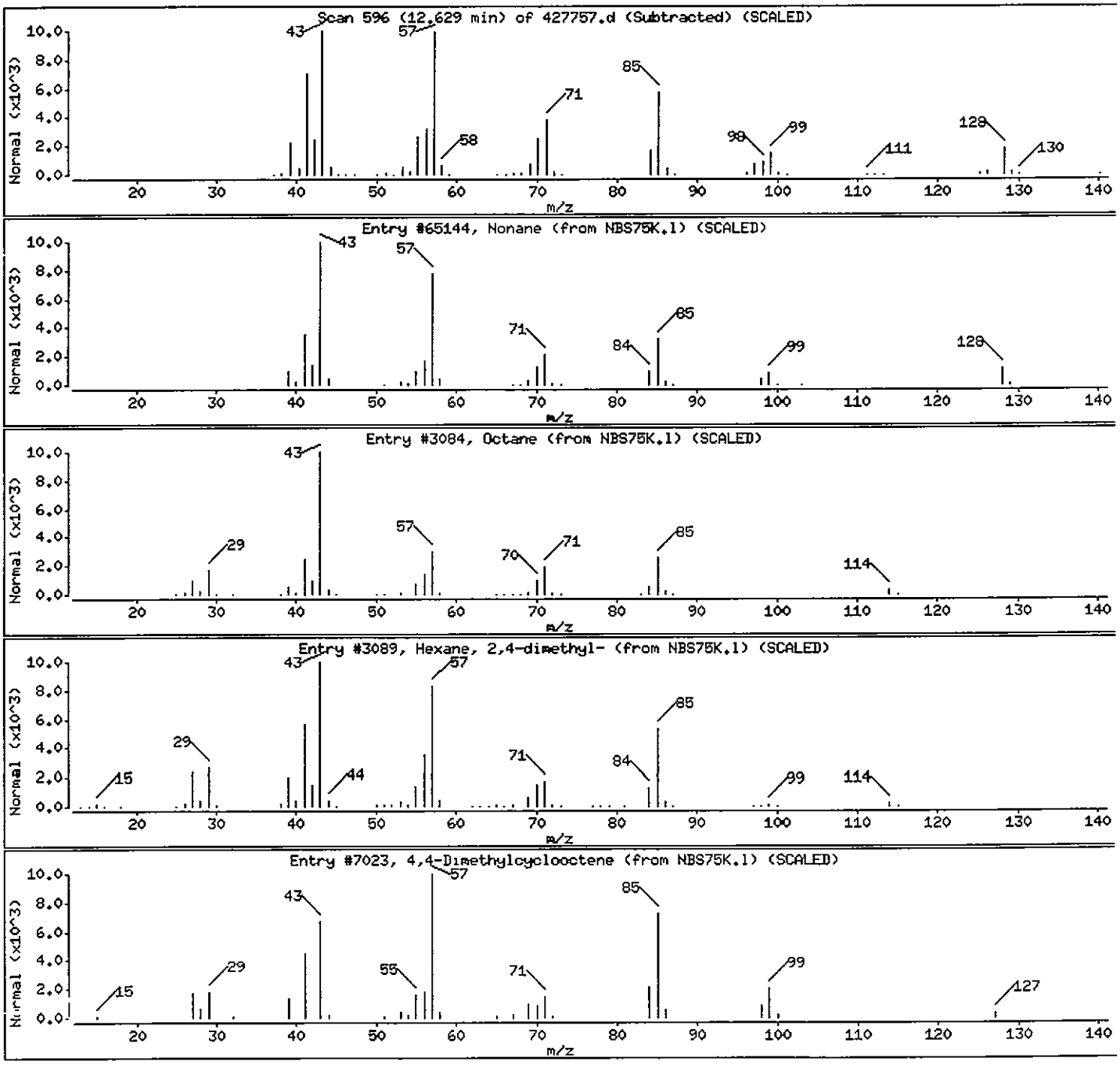
Client ID: A2IA08150003 Instrument: W.i

Sample Info: 427757;029ACA2IA081 003;79442;0822U[illegible]

Purge Volume: 200.0 Operator: GHH

Column phase: DB-1 Column diameter: 0.35

Library Search Compound Hatch	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown alkane						
Nonane	111-84-2	NBS75K.l	65144	94	C9H20	128
Octane	111-65-9	NBS75K.l	3084	64	C8H18	114
Hexane, 2,4-dimethyl-	589-43-5	NBS75K.l	3089	58	C8H18	114
4,4-Dimethylcyclooctene	0-00-0	NBS75K.l	7023	47	C10H18	138



Data File: /chem/W.i/Wsvr.p/wcbnto14.b/427757.d

Date : 22-AUG-2000 14:13

Client ID: A2IA08150003

Instrument: W.i

Sample Info: 4277[illegible] ;029[illegible] A2IA08150003;79442;0822U9

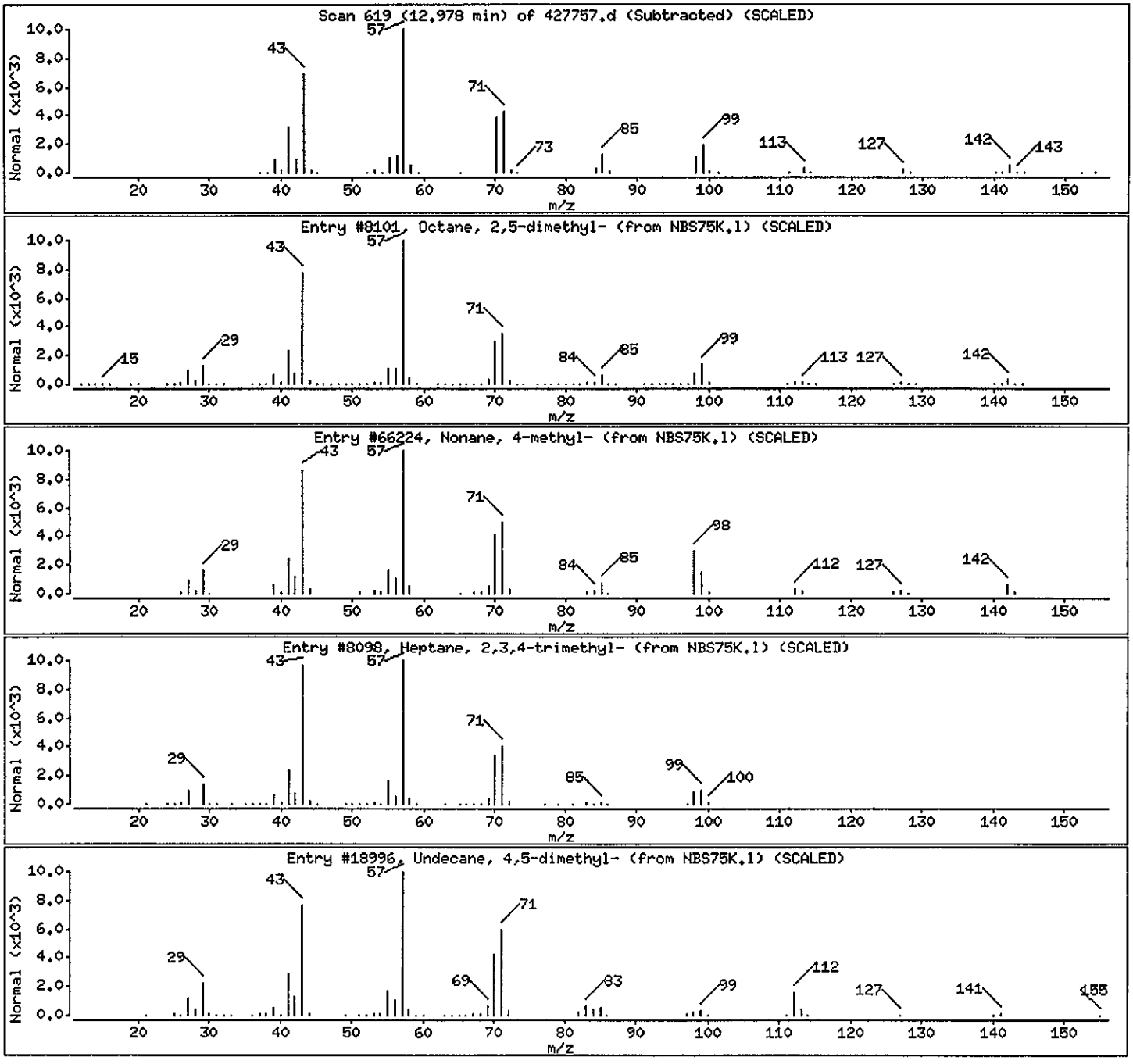
Purge Volume: 200.0

Operator: GMM

Column phase: DB-1

Column diameter: 0.35

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown alkane						
Octane, 2,5-dimethyl-	15869-89-3	NBS75K.l	8101	90	C10H22	142
Nonane, 4-methyl-	17301-94-9	NBS75K.l	66224	83	C10H22	142
Heptane, 2,3,4-trimethyl-	52896-95-4	NBS75K.l	8098	64	C10H22	142
Undecane, 4,5-dimethyl-	17312-79-7	NBS75K.l	18996	59	C13H28	184



Data File: /chem/W.i/Wsvr.p/wcbnto14.b/427757.d

Date : 22-AUG-2000 14:13

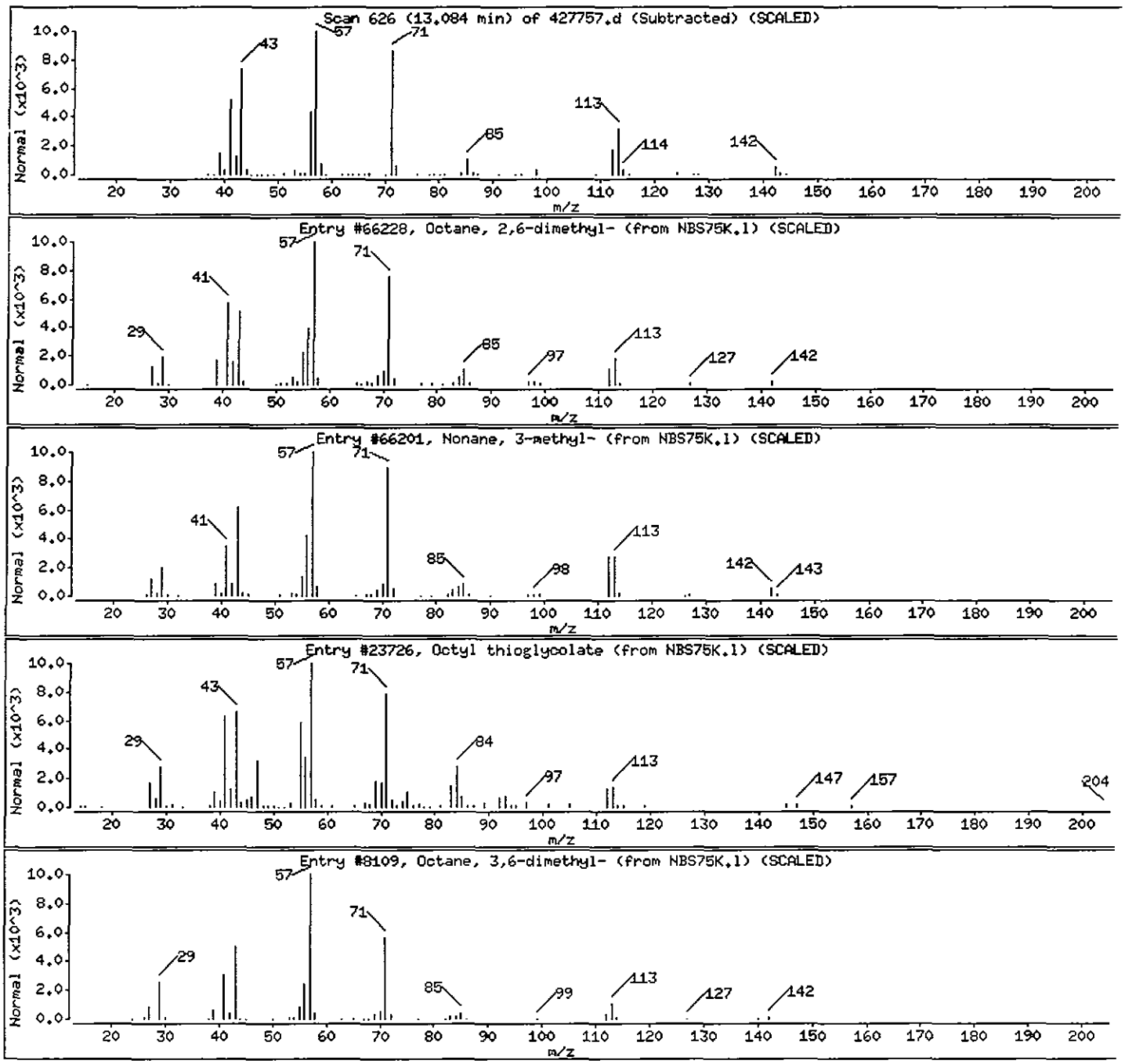
Client ID: A2IA08150003 Instrument: W.i

Sample Info: 427757;029ACA2IA08150003;79442;08-2U9

Purge Volume: 200.0 Operator: GMM

Column phase: DB-1 Column diameter: 0.35

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown alkane						
Octane, 2,6-dimethyl-	2051-30-1	NBS75K.l	66228	91	C10H22	142
Nonane, 3-methyl-	5911-04-6	NBS75K.l	66201	87	C10H22	142
Octyl thioglycolate	7664-80-4	NBS75K.l	23726	78	C10H20O2S	204
Octane, 3,6-dimethyl-	15869-94-0	NBS75K.l	8109	72	C10H22	142



Data File: /chem/W.i/Wsvr.p/wcbnto14.b/427757.d

Date : 22-AUG-2000 14:13

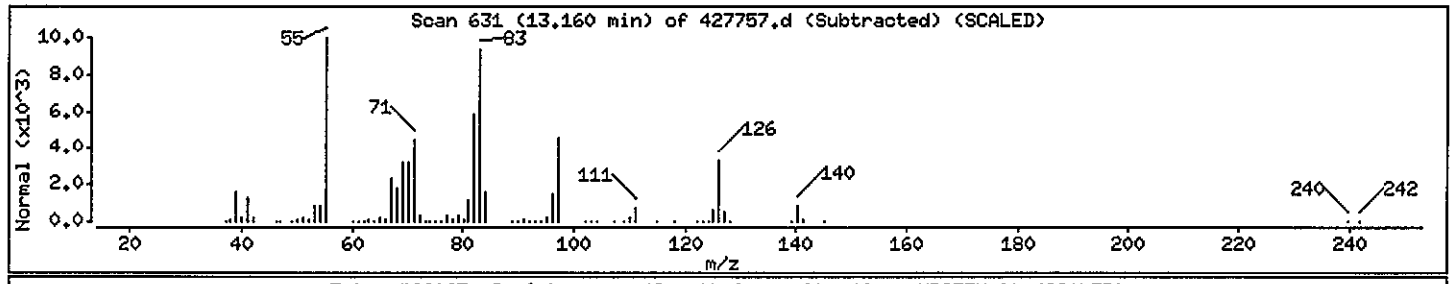
Client ID: A2IA08150003 Instrumen: I.i

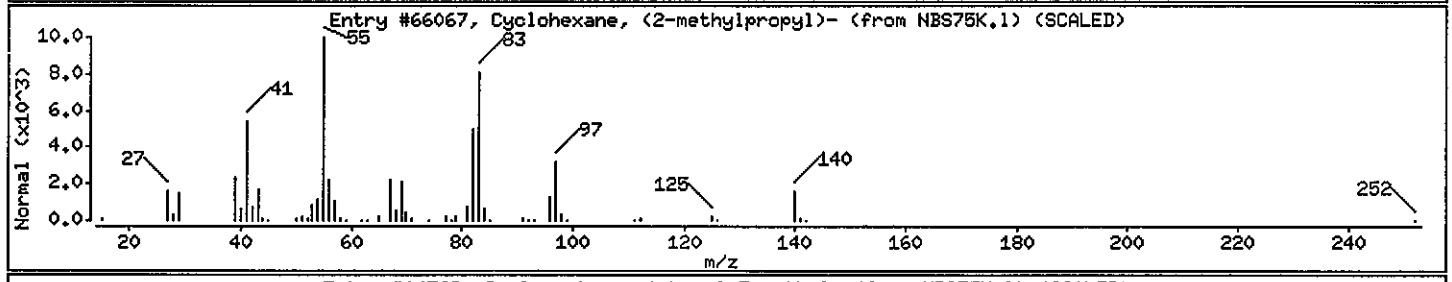
Sample nfo: 427757;029ACA2IA08150003;79442;0822U9

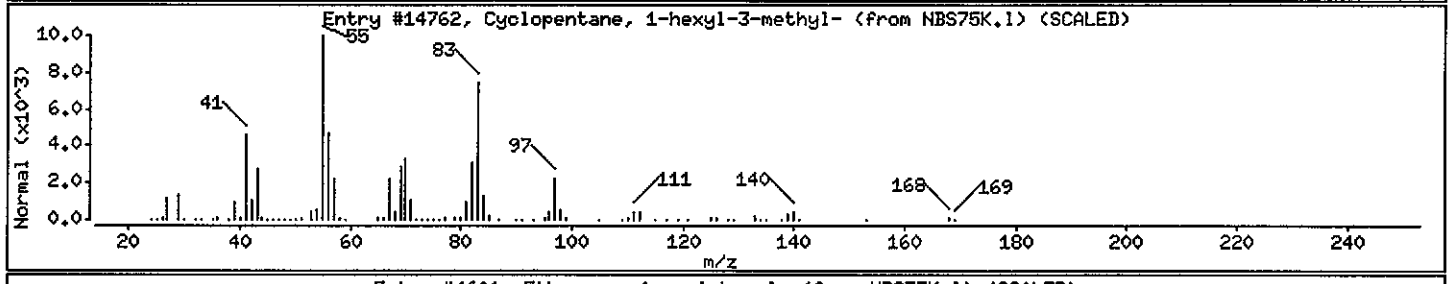
Purge Volume: 200.0 Operator: GMM

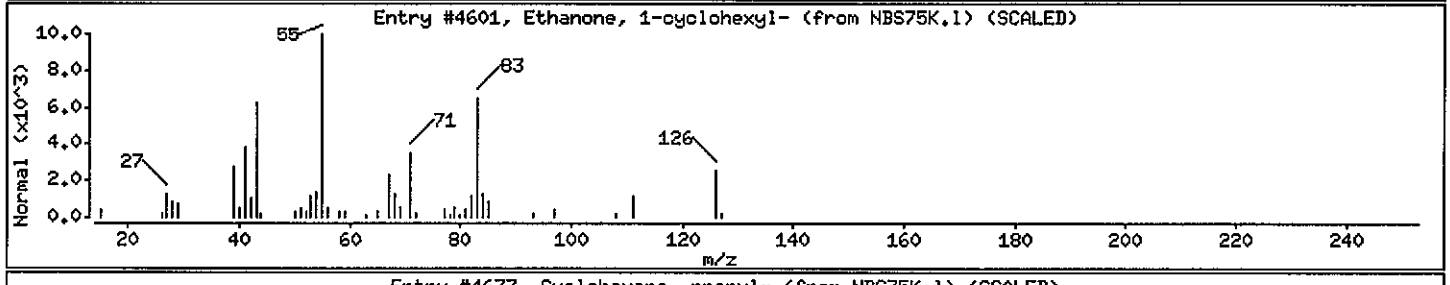
Column phase: DB-1 Column diameter: 0.35

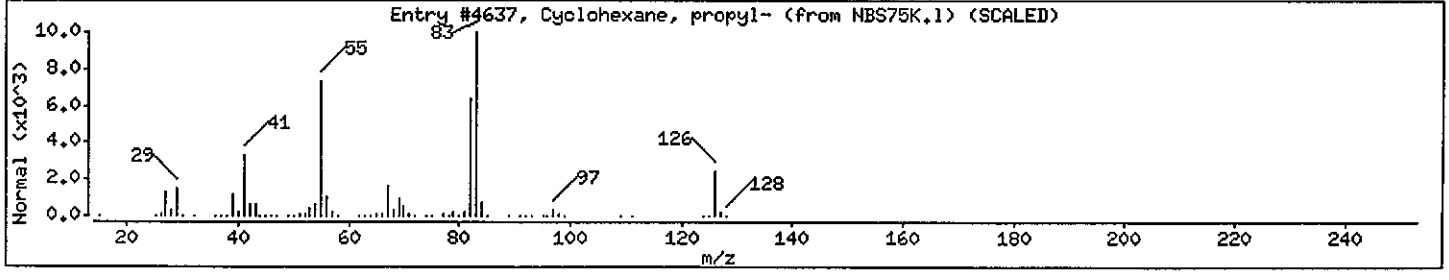
Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown aliphatic compound						
Cyclohexane, (2-methylpropyl)-	1678-98-4	NBS75K.l	66067	62	C10H20	140
Cyclopentane, 1-hexyl-3-methyl-	61142-68-5	NBS75K.l	14762	50	C12H24	168
Ethanone, 1-cyclohexyl-	823-76-7	NBS75K.l	4601	50	C8H14O	126
Cyclohexane, propyl-	1678-92-8	NBS75K.l	4637	49	C9H18	126











Data File: /chem/W.i/Wsvr.p/wcbnto14.b/427757.d

Date : 22-AUG-2000 14:13

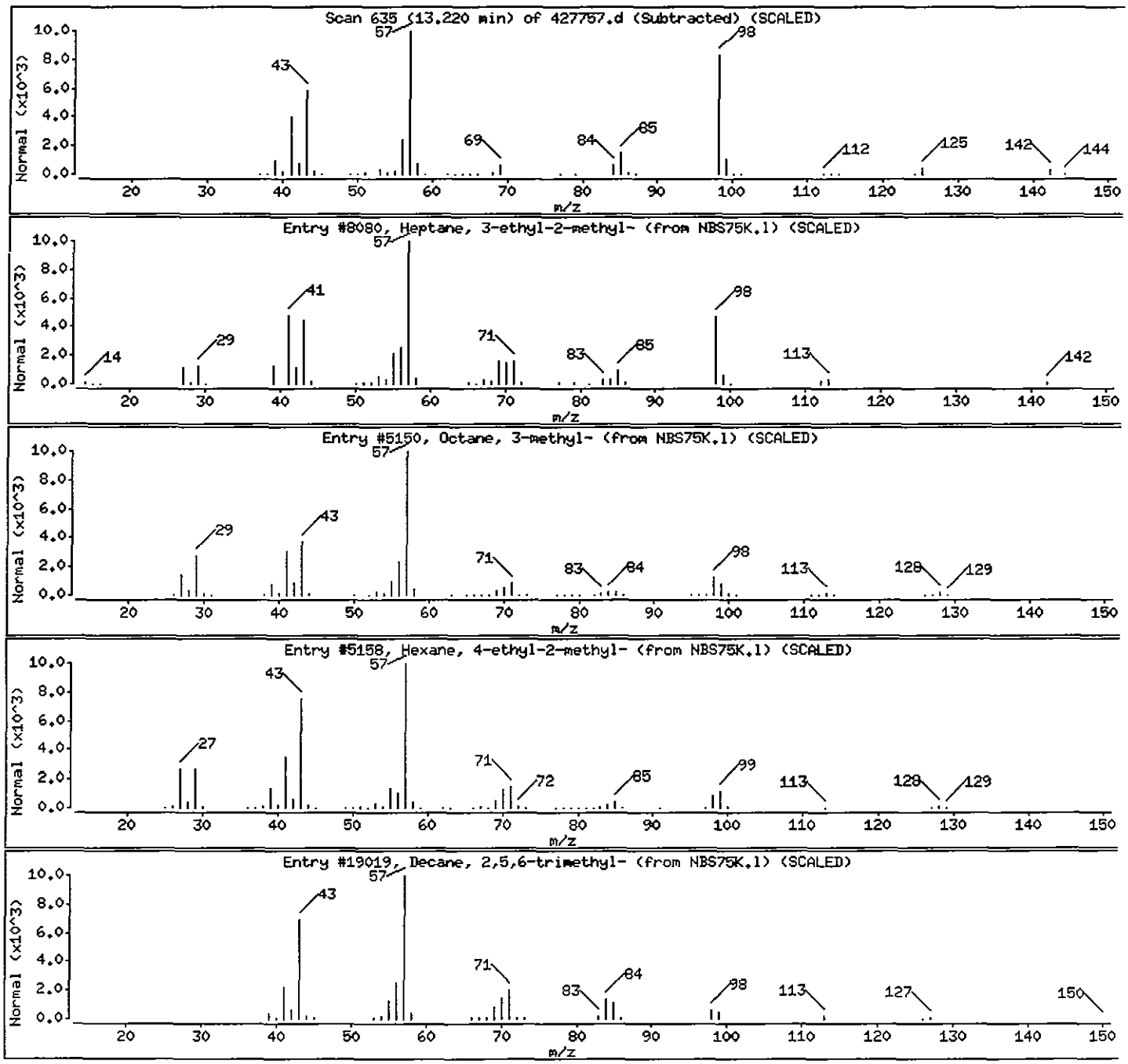
Client ID: A2IA08150003 Instrument: W.i

Sample Info: 427757;029ACA2IA08150003;79442;0822U9

Purge Volume: 200.0 Operator: CMH

Column phase: DB-1 Column diameter: 0.35

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown alkane						
Heptane, 3-ethyl-2-methyl-	14676-29-0	NBS75K.l	8080	78	C10H22	142
Octane, 3-methyl-	2216-33-3	NBS75K.l	5150	40	C9H20	128
Hexane, 4-ethyl-2-methyl-	3074-75-7	NBS75K.l	5158	16	C9H20	128
Decane, 2,5,6-trimethyl-	62108-23-0	NBS75K.l	19019	12	C13H28	184



Data File: /chem/W.i/Wsvr.p/wcbnto14.b/427757.d

Date : 22-AUG-2000 14:13

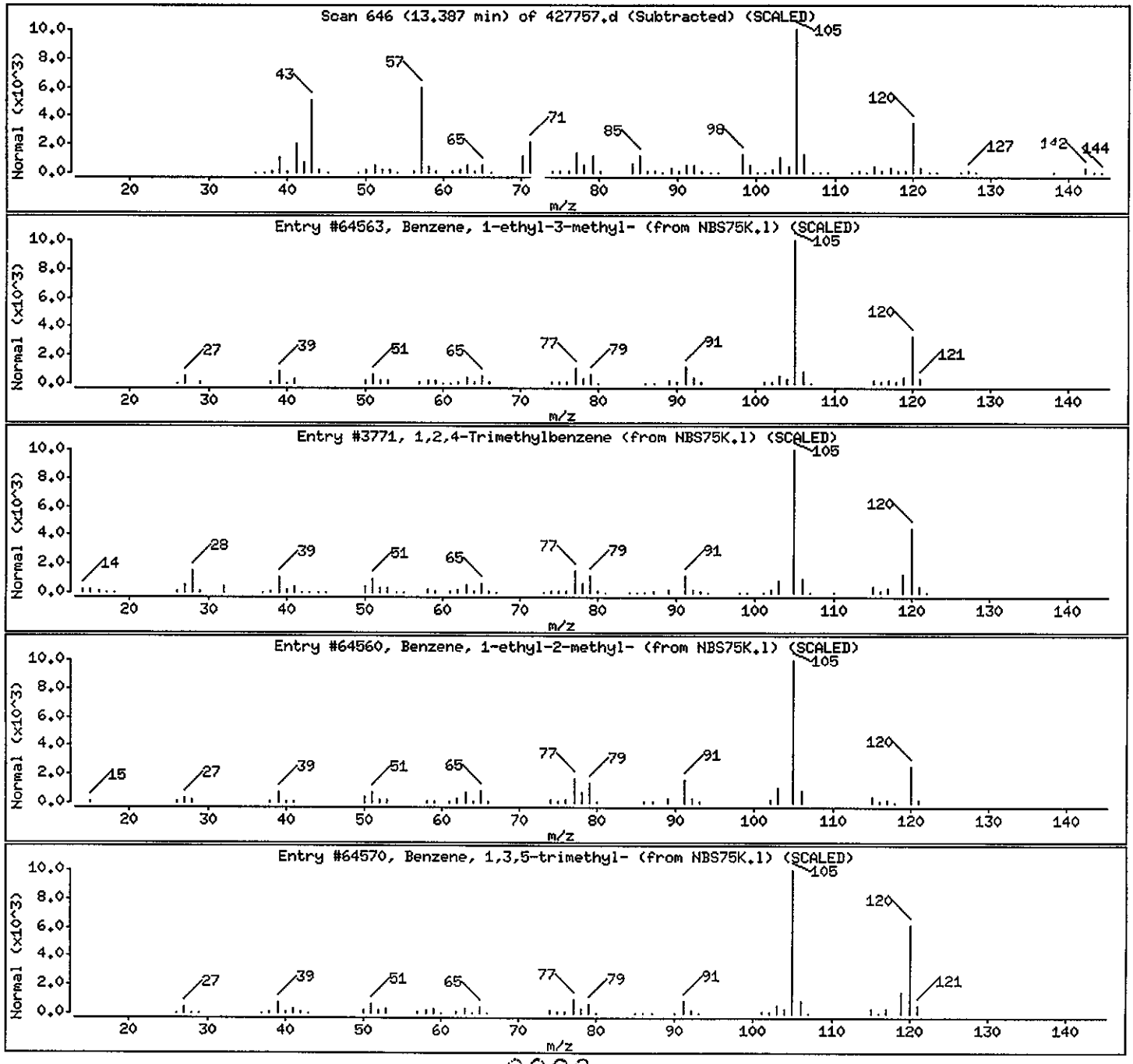
Client ID: A2IA08150003 Instrument: W.i

Sample Info: 427757;029ACA2IA08150003;79442;0822U9

Purge Volume: 200.0 Operator: GMM

Column phase: DB-1 Column diameter: 0.35

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown C3-alkylbenzene						
Benzene, 1-ethyl-3-methyl-	620-14-4	NBS75K.l	64563	60	C9H12	120
1,2,4-Trimethylbenzene	95-36-3	NBS75K.l	3771	60	C9H12	120
Benzene, 1-ethyl-2-methyl-	611-14-3	NBS75K.l	64560	60	C9H12	120
Benzene, 1,3,5-trimethyl-	108-67-8	NBS75K.l	64570	60	C9H12	120



Data File: /chem/W.i/Wsvr.p/wcbnto14.b/427757.d

Date : 22-AUG-2000 14:13

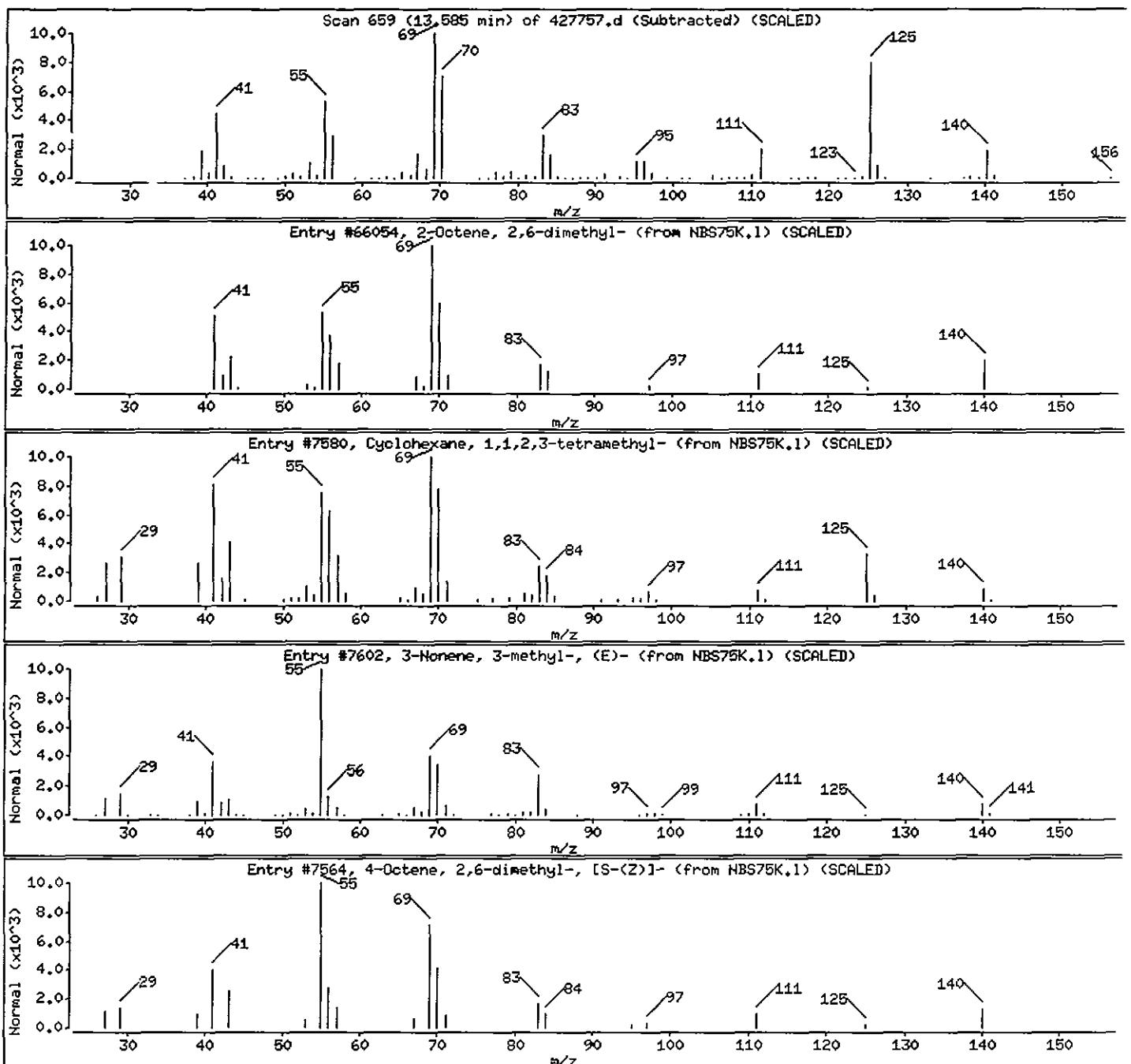
Client ID: A2IA08150003 Instrument: W.i

Sample Info: 427757;029ACA2IA08150003;79442;0822U9

Purge Volume: 200.0 Operator: GMM

Column phase: DB-1 Column diameter: 0.35

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown aliphatic compound						
2-Octene, 2,6-dimethyl-	4057-42-5	NBS75K.l	66054	53	C10H20	140
Cyclohexane, 1,1,2,3-tetramethyl-	6783-92-2	NBS75K.l	7580	50	C10H20	140
3-Nonene, 3-methyl-, (E)-	69405-42-1	NBS75K.l	7602	49	C10H20	140
4-Octene, 2,6-dimethyl-, [S-(Z)]-	62960-77-4	NBS75K.l	7564	49	C10H20	140



Data File: /chem/W.i/Wsvr.p/wcbnto14.b/427757.d

Date : 22-AUG-2000 14:13

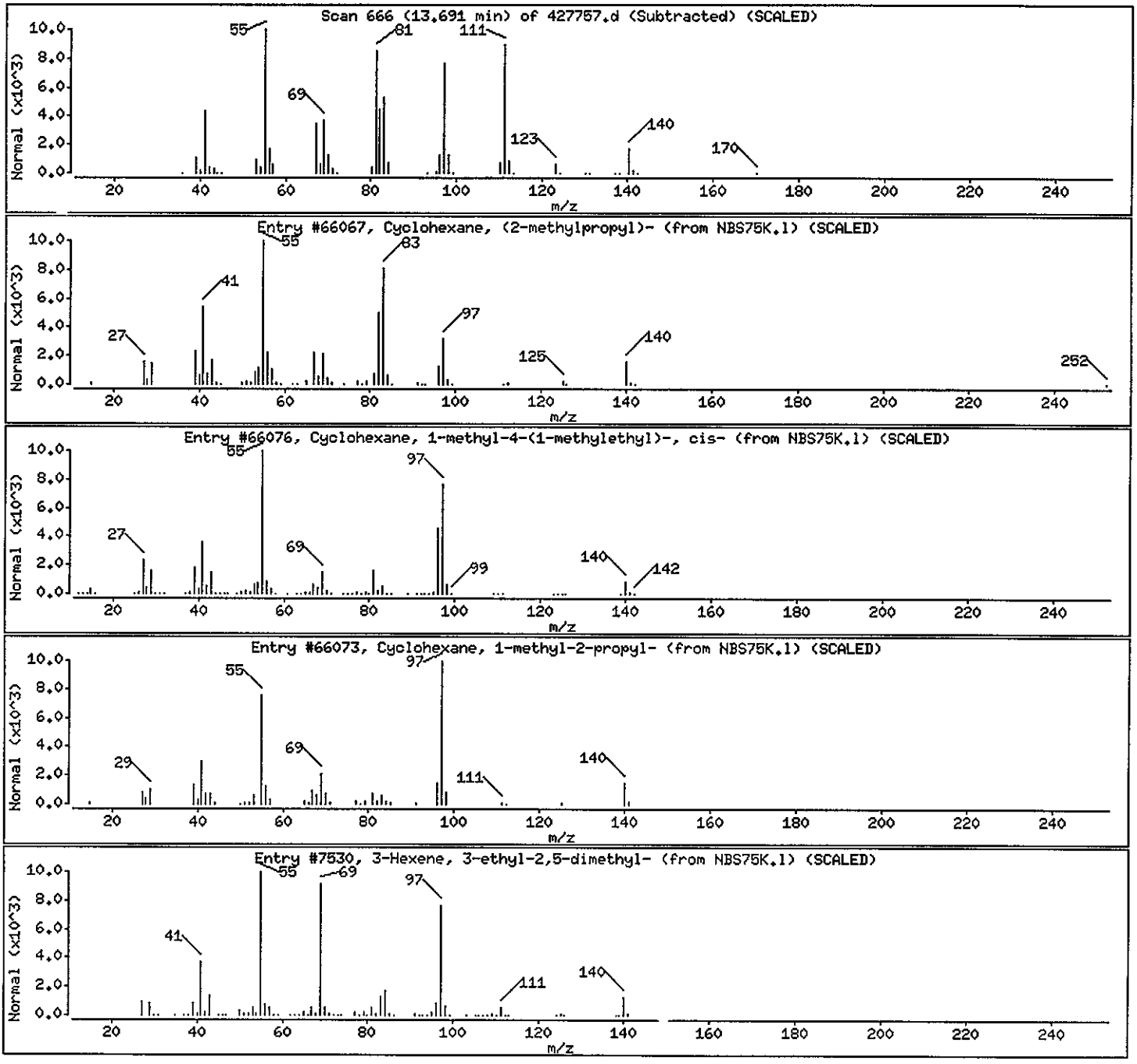
Client ID: A2IA08150003 Instrument: W.i

Sample Info: 427757;029ACA2IA08150003;79442;0

Purge Volume: 200.0 Operator: GMM

Column phase: DB-1 Column diameter: 0.35

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown aliphatic compound						
Cyclohexane, (2-methylpropyl)-	1678-98-4	NBS75K.l	66067	25	C10H20	140
Cyclohexane, 1-methyl-4-(1-methylethyl)-	6069-98-3	NBS75K.l	66076	25	C10H20	140
Cyclohexane, 1-methyl-2-propyl-	4291-79-6	NBS75K.l	66073	22	C10H20	140
3-Hexene, 3-ethyl-2,5-dimethyl-	62338-08-3	NBS75K.l	7530	22	C10H20	140



Data File: /chem/W.i/Wsvr.p/wcbnto14.b/427757.d

Date : 22-AUG-2000 14:13

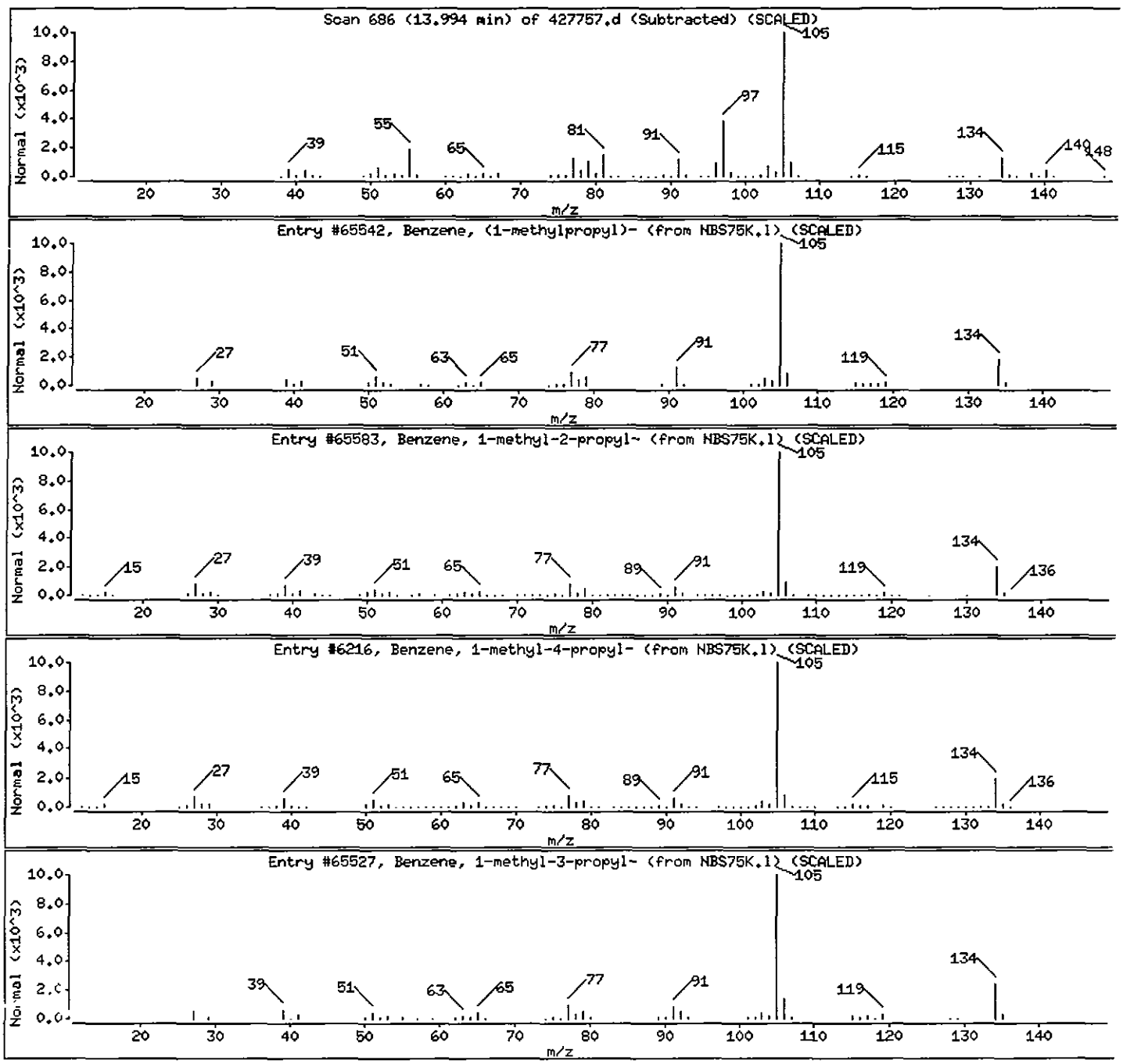
Client ID: A2IA08150003 Instrument: W.i

Sample Info: 427757;029ACA2IA0^ 0003;79442;0822[illegible]

Purge Volume: 200.0 Operator: GMM

Column phase: DB-1 Column diameter: 0.35

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown C4-alkylbenzene						
Benzene, (1-methylpropyl)-	135-98-8	NBS75K.l	65542	55	C10H14	134
Benzene, 1-methyl-2-propyl-	1074-17-5	NBS75K.l	65583	49	C10H14	134
Benzene, 1-methyl-4-propyl-	1074-55-1	NBS75K.l	6216	49	C10H14	134
Benzene, 1-methyl-3-propyl-	1074-43-7	NBS75K.l	65527	43	C10H14	134



Data File: /chem/W.i/Wsvr.p/wcbnto14.b/427757.d

Date : 22-AUG-2000 14:13

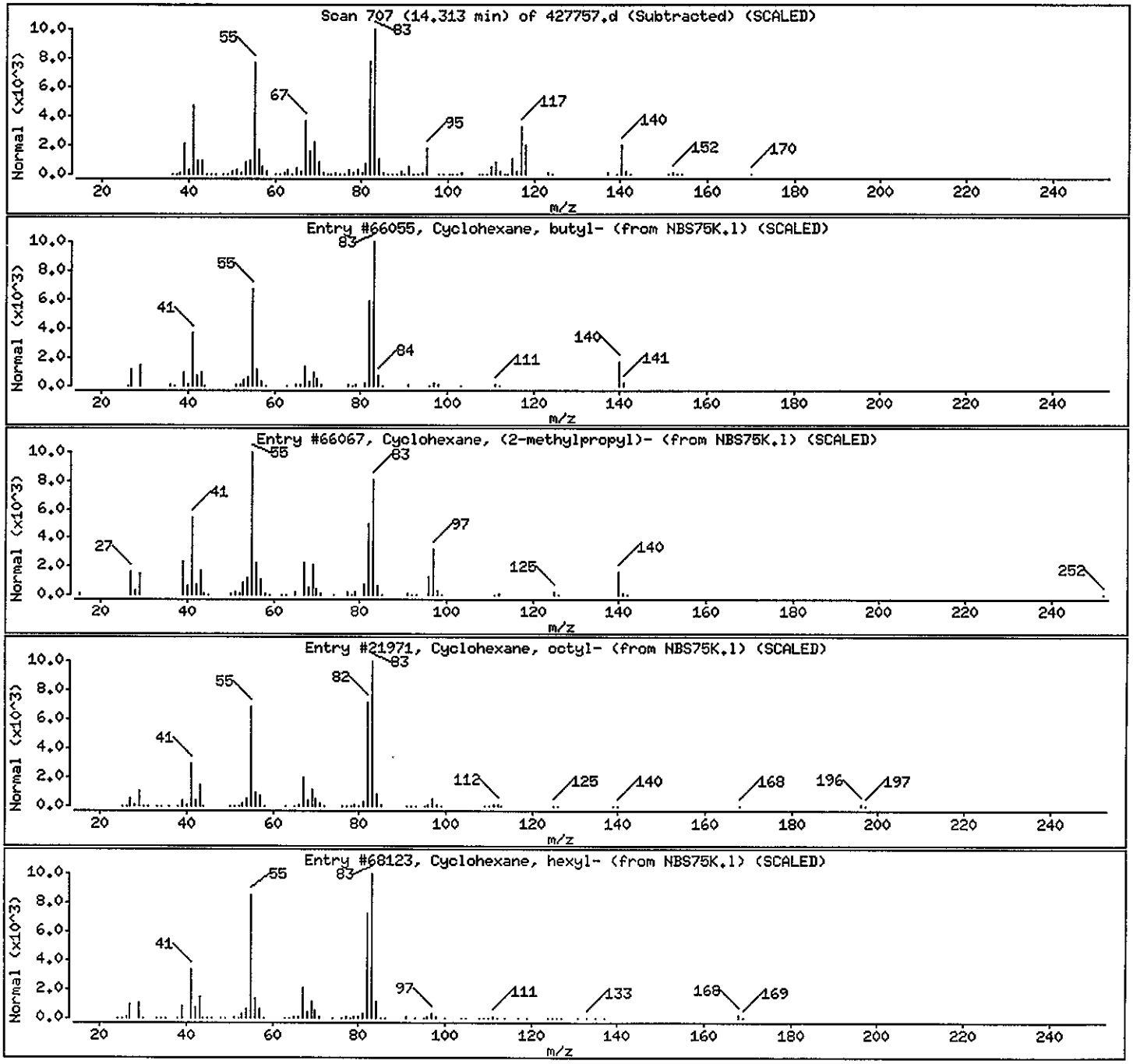
Client ID: A2IA08150003 Instrument: W.i

Sample Info: 4277 ';029 _A2IA08150003;79442;0822U9

Purge Volume: 200.0 Operator: GHM

Column phase: DB-1 Column diameter: 0.35

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown cyclohexane						
Cyclohexane, butyl-	1678-93-9	NBS75K.l	66055	76	C10H20	140
Cyclohexane, (2-methylpropyl)-	1678-98-4	NBS75K.l	66067	59	C10H20	140
Cyclohexane, octyl-	1795-15-9	NBS75K.l	21971	53	C14H28	196
Cyclohexane, hexyl-	4292-75-5	NBS75K.l	68123	53	C12H24	168



FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

ACCANA SAMPLE NO.

CAEA08150003

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 79442

Matrix: (soil/water) AIR Lab Sample ID: 427758

Sample wt/vol: 200 (g/mL) ML Lab File ID: 427758

Level: (low/med) LOW Date Received: 08/18/00

% Moisture: not dec. _____ Date Analyzed: 08/22/00

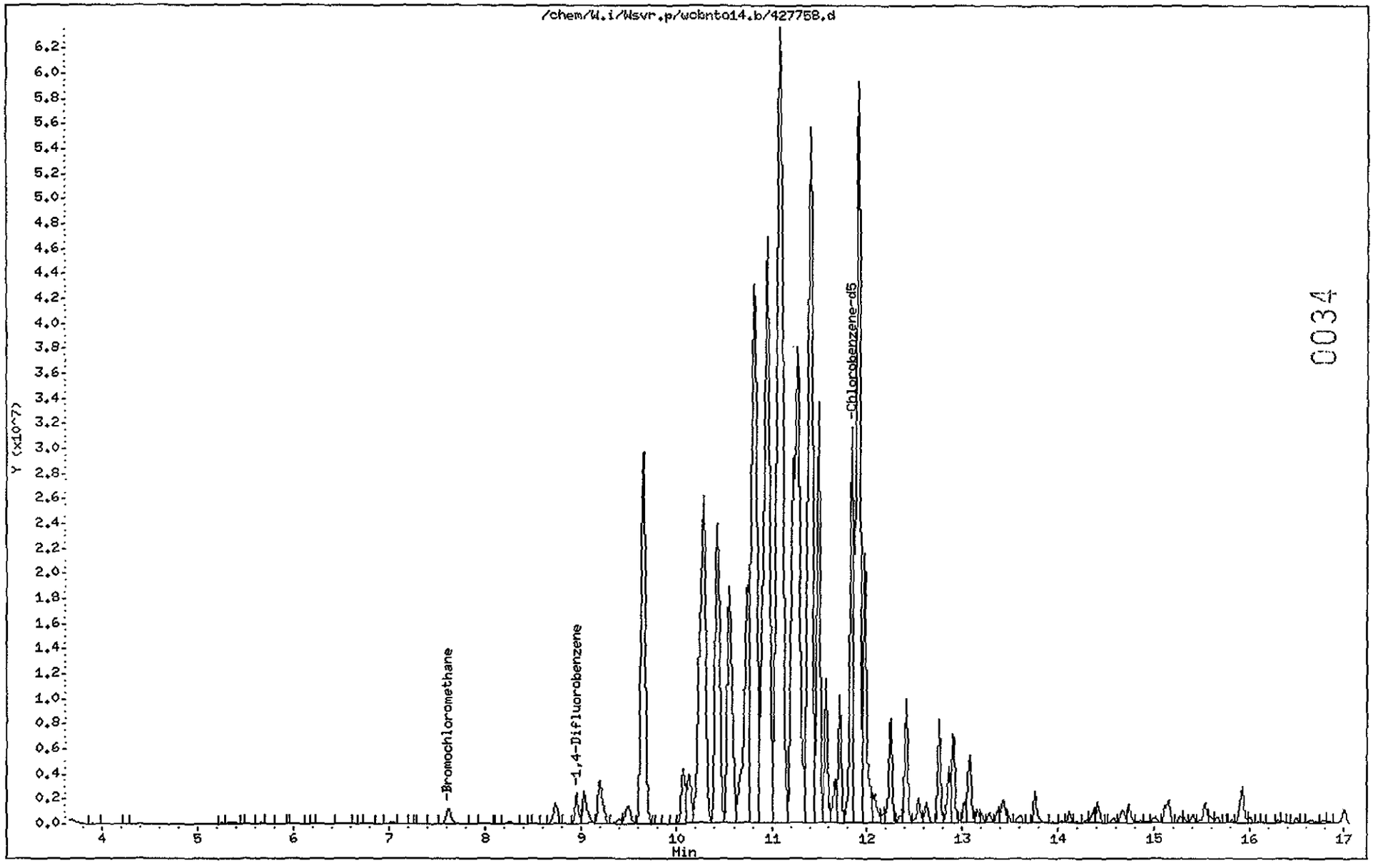
GC Column: DB-1 ID: 0.35 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) PPBV	Q
74-87-3	Chloromethane	0.69	
75-01-4	Vinyl Chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-09-2	Methylene Chloride	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
56-23-5	Carbon Tetrachloride	0.50	U
71-43-2	Benzene	12	
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-88-3	Toluene	10	
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	1.7	
1330-20-7	Xylene (total)	6.3	
100-42-5	Styrene	0.50	U
1330-20-7	Xylene (m,p)	4.2	
95-47-6	Xylene (o)	2.1	
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U

Data File: /chem/W.i/Wsvr.p/wcbnto14.b/427758.d
Date : 22-AUG-2000 14:46
Client ID: CAEA08150003
Sample Info: 427758;029ACAEA08150003;79442;0822U9
Purge Volume: 200.0
Column phase: DB-1

Instrument: W.i
Operator: GMM
Column diameter: 0.35



STL Burlington

AIR TOXICS QUANTITATION REPORT

Data file : /chem/W.i/Wsvr.p/wcbnto14.b/427758.d
Lab Smp Id: 427758 Client Smp ID: CAEA08150003
Inj Date : 22-AUG-2000 14:46
Operator : GMM Inst ID: W.i
Smp Info : 427758;029ACAEA08150003;79442;0822U9
Misc Info :
Comment :
Method : /chem/W.i/Wsvr.p/wcbnto14.b/ato14.m
Meth Date : 30-Aug-2000 16:03 mim Quant Type: ISTD
Cal Date : 10-JUL-2000 13:37 Cal File: cb0005i2.d
Als bottle: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ACCANA.sub
Target Version: 3.50
Processing Host: chemsvr4

Concentration Formula: Amt * DF * X* Uf/Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
X	200.00000	method volume factor
Uf	1.00000	ng unit correction factor
Vo	200.00000	Sample Volume purged (mL)

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)
	2 Chloromethane	50	3.914	3.925	(0.515)	26074	0.69344	0.69(MH)
	4 Vinyl Chloride	62	Compound Not Detected.					
	5 Bromomethane	94	Compound Not Detected.					
	6 Chloroethane	64	Compound Not Detected.					
	7 Trichlorofluoromethane	101	Compound Not Detected.					
	9 Methylene Chloride	49	Compound Not Detected.					
	11 1,1-Dichloroethane	63	Compound Not Detected.					
*	13 Bromochloromethane	128	7.606	7.621	(1.000)	518746	10.0000	
	14 Chloroform	83	Compound Not Detected.					
	15 1,2-Dichloroethane	62	Compound Not Detected.					
	16 1,1,1-Trichloroethane	97	Compound Not Detected.					
	17 Benzene	78	8.729	8.728	(0.975)	1963718	12.4048	12
	18 Carbon Tetrachloride	117	Compound Not Detected					
*	19 1,4-Difluorobenzene	114	8.957	8.956	(1.000)	2312538	10.0000	
	20 1,2-Dichloropropane	63	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)
	21 Trichloroethene	95	Compound Not Detected.					
	22 cis-1,3-Dichloropropene	75	Compound Not Detected.					
	23 trans-1,3-Dichloropropene	75	Compound Not Detected.					
	24 1,1,2-Trichloroethane	83	Compound Not Detected.					
	25 Toluene	92	10.656	10.641	(0.900)	1256134	10.4065	10
	27 Tetrachloroethene	166	Compound Not Detected.					
*	28 Chlorobenzene-d5	117	11.840	11.809	(1.000)	2408816	10.0000	
	29 Chlorobenzene	112	Compound Not Detected.					
	30 Ethylbenzene	91	12.113	12.082	(1.023)	463836	1.71955	1.7
	31 Xylene (m,p)	106	12.219	12.188	(1.032)	415511	4.20565	4.2
	32 Styrene	104	Compound Not Detected.					
M	33 Xylene (total)	106				617222	6.29556	6.3
	34 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					
	35 Xylene (o)	106	12.553	12.522	(1.060)	201711	2.08992	2.1
	38 1,3-Dichlorobenzene	146	Compound Not Detected.					
	39 1,4-Dichlorobenzene	146	Compound Not Detected.					
	40 1,2-Dichlorobenzene	146	Compound Not Detected.					

QC Flag Legend

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

mvm 8/31/00

STL Burlington

AIR TOXICS QUANTITATION REPORT

Data file : /chem/W.i/Wsvr.p/wcbnto14.b/427758.d
Lab Smp Id: 427758 Client Smp ID: CAEA08150003
Inj Date : 22-AUG-2000 14:46
Operator : GMM Inst ID: W.i
Smp Info : 427758;029ACAEA08150003;79442;0822U9
Misc Info :
Comment :
Method : /chem/W.i/Wsvr.p/wcbnto14.b/ato14.m
Meth Date : 30-Aug-2000 16:03 mim Quant Type: ISTD
Cal Date : 10-JUL-2000 13:37 Cal File: cb0005i2.d
Als bottle: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ACCANA.sub
Target Version: 3.50
Processing Host: chemsvr4

Concentration Formula: Amt * DF * X* Uf/Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
X	200.00000	method volume factor
Uf	1.00000	ng unit correction factor
Vo	200.00000	Sample Volume purged (mL)

Cpnd Variable Local Compound Variable

ISTD	RT	AREA	AMOUNT
* 19 1,4-Difluorobenzene	8.957	5603092	10.000
* 28 Chlorobenzene-d5	11.840	78220602	10.000

	CONCENTRATIONS				QUANT		
RT	AREA	ON-COL(ppbv)	FINAL(ppbv)	QUAL	LIBRARY	LIB ENTRY	CPND #
Unknown alkane				CAS #:			
10.277	1.229e+08	219.275322	220	0		0	19
Unknown alkane				CAS #:			
10.429	71100429	9.08973172	9.1	0		0	28

RT	AREA	CONCENTRATIONS ON-COL(ppbv)	FINAL(ppbv)	Q'A	QUANT LIBRARY	LIB ENTRY	CPND #
Unknown alkane				CAS #:			
10.550	72115280	9.21947384	9.2	0		0	28(L)
Unknown aliphatic compound				CAS #:			
10.747	82258205	10.5161814	10	0		0	28
Unknown aliphatic compound				CAS #:			
10.808	1.954e+08	24.9834474	25	0		0	28
Unknown alkane				CAS #:			
10.945	2.008e+08	25.6760852	26	0		0	28
Unknown aliphatic compound				CAS #:			
11.400	1.586e+08	20.2726743	20	0		0	28
Unknown dimethylcyclohexane				CAS #:			
11.491	84896576	10.8534802	11	0		0	28(L)
Unknown				CAS #:			
11.916	1.933e+08	24.7081486	25	0		0	28
Unknown trimethylcyclohexane				CAS #:			
11.976	58858920	7.52473366	7.5	0		0	28(L)

QC Flag Legend

L - Operator selected an alternate library search match.

Data File: /chem/W.i/Wsvr.p/wcbnto14.b/427758.d

Date : 22-AUG-2000 14:46

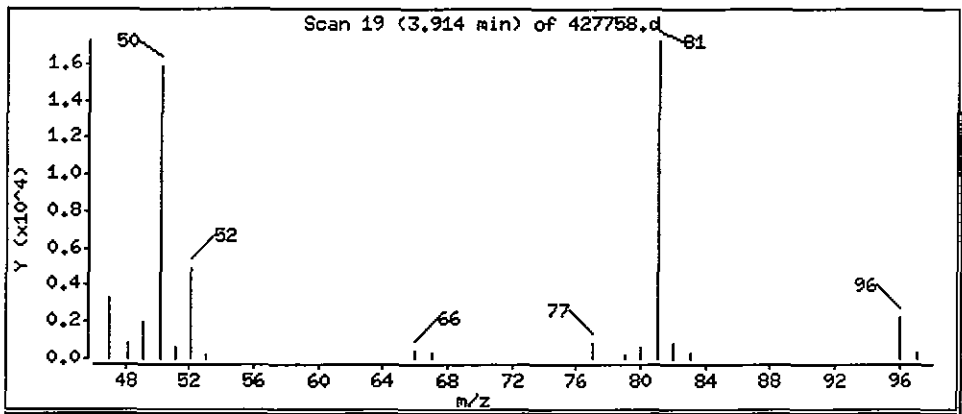
Client ID: CAEA08150003 Instrument: W.i

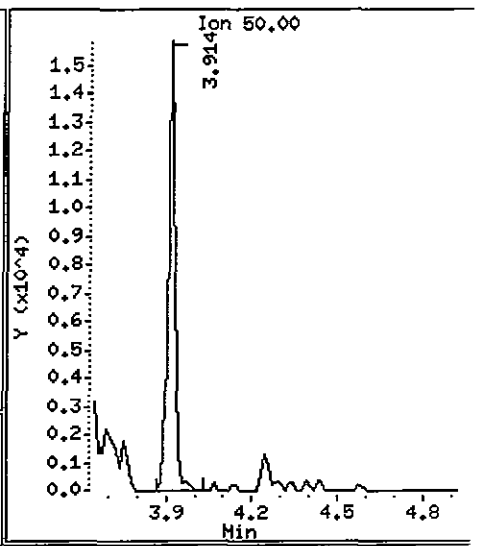
Sample Info: 427758;029ACAEA081 ,003;79442;0822U9

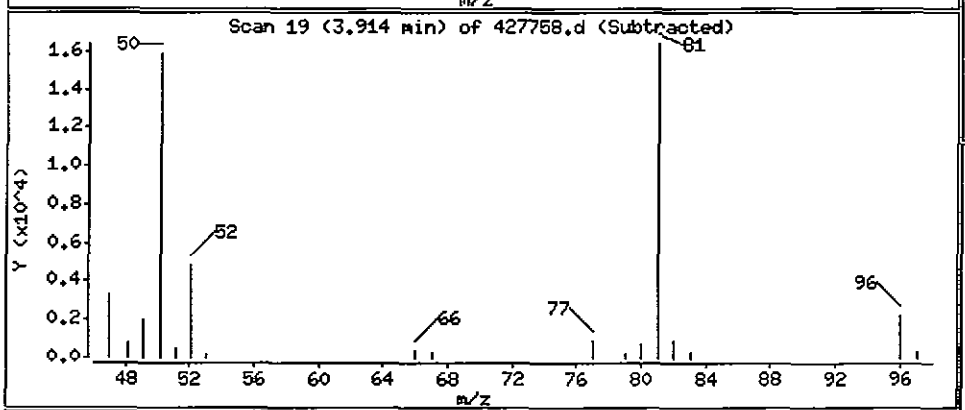
Purge Volume: 200.0 Operator: GMM

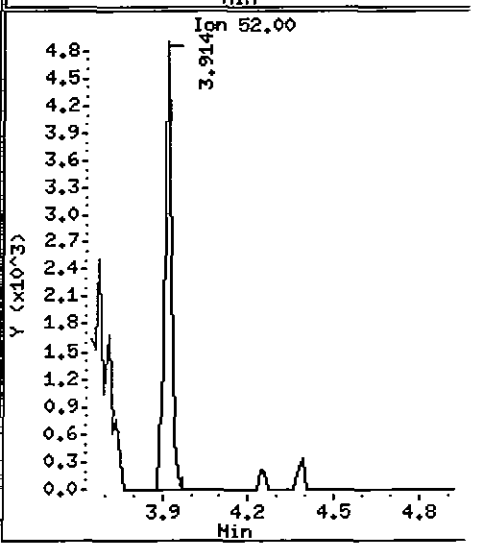
Column phase: DB-1 Column diameter: 0.35

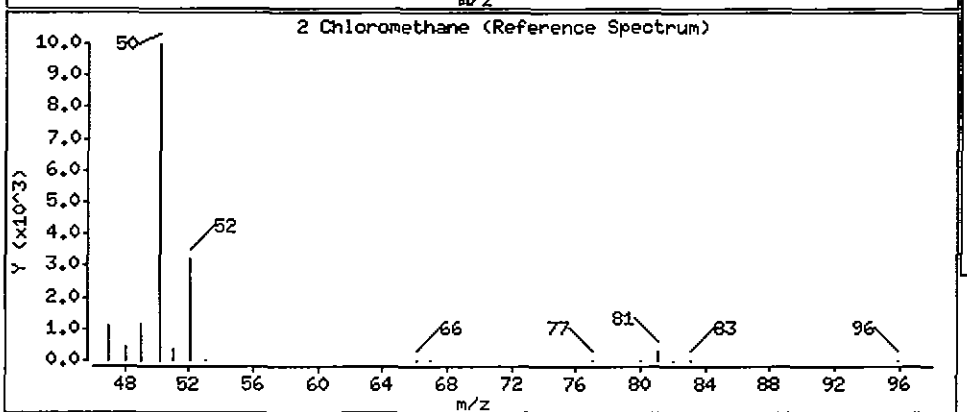
2 Chloromethane Concentration: 0.69 ppbv

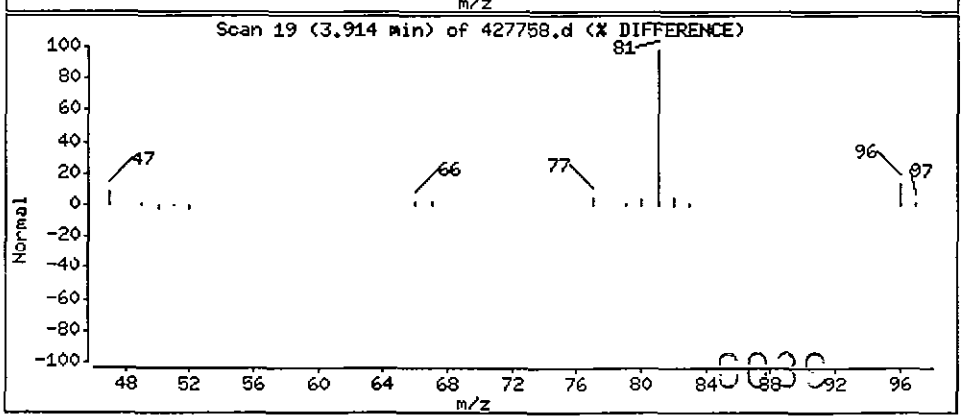












Data File: /chem/W.i/Wsvr.p/wcbnto14.b/427758.d

Date : 22-AUG-2000 14:46

Client ID: CAEA08150003

Instrument: W.i

Sample Info: 427 8;02 CAEA08150003;79442;0822U9

Purge Volume: 200.0

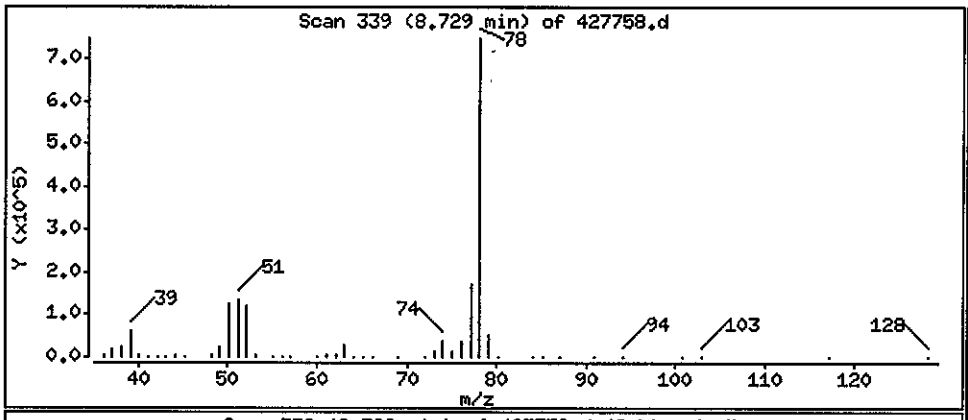
Operator: GMM

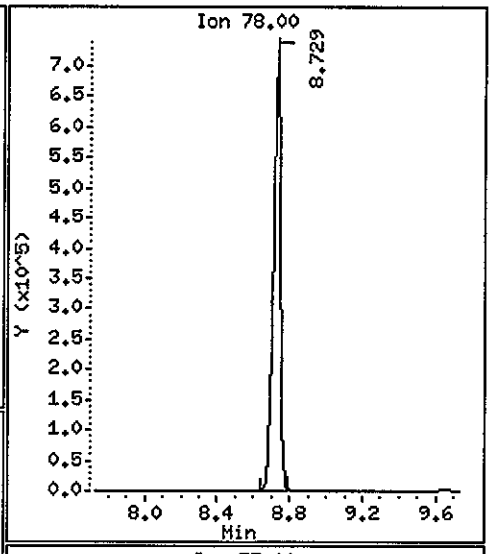
Column phase: DB-1

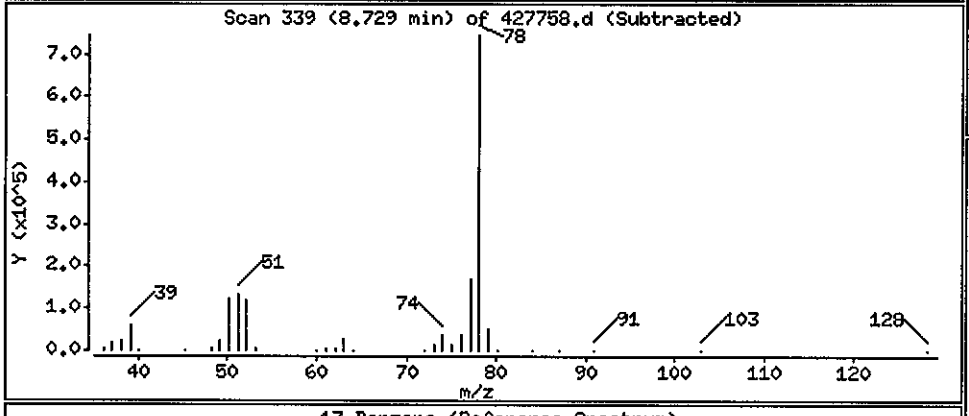
Column diameter: 0.35

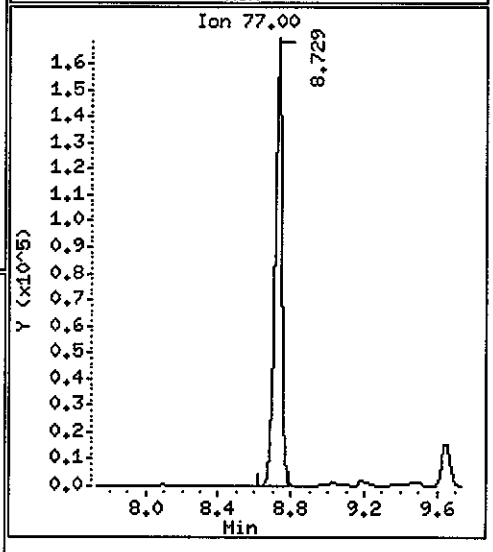
17 Benzene

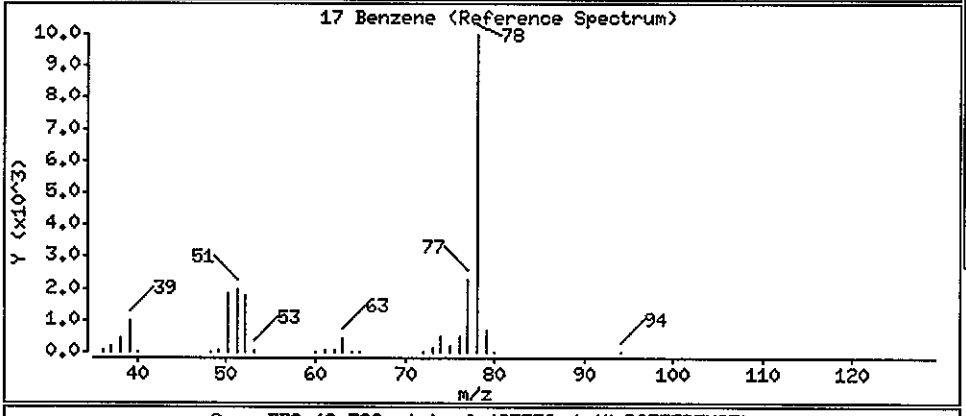
Concentration: 12 ppbv

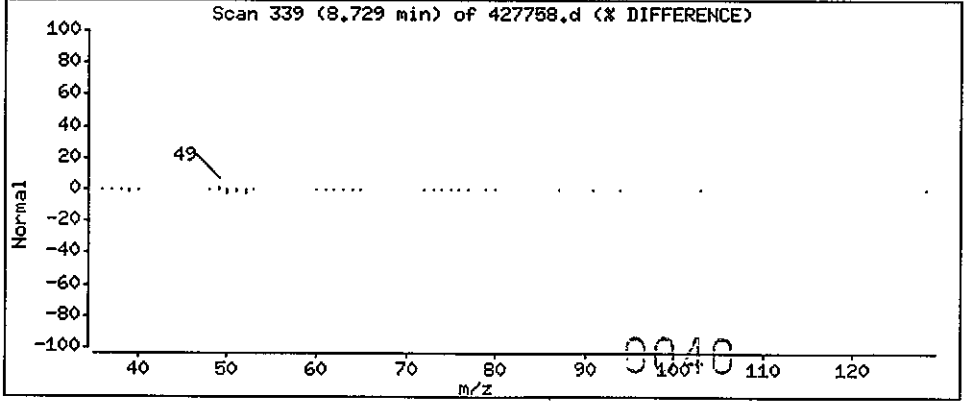












Data File: /chem/W.i/Wsvr.p/wcbnto14.b/427758.d

Date : 22-AUG-2000 14:46

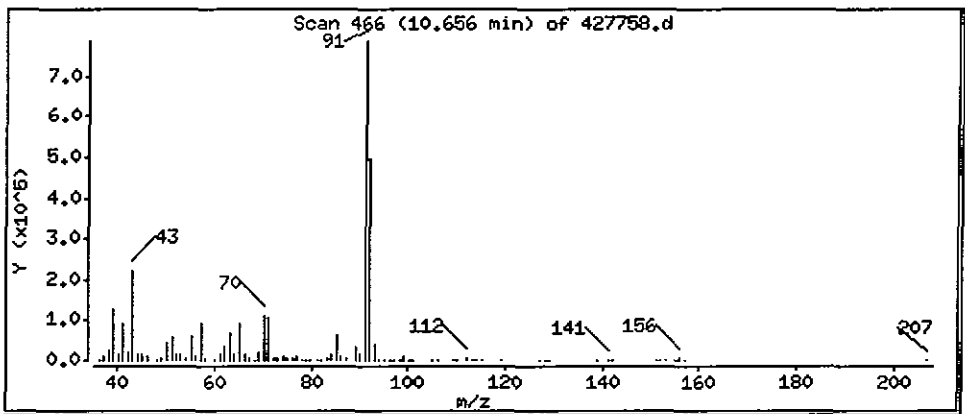
Client ID: CAEA08150003 Instrument: W.i

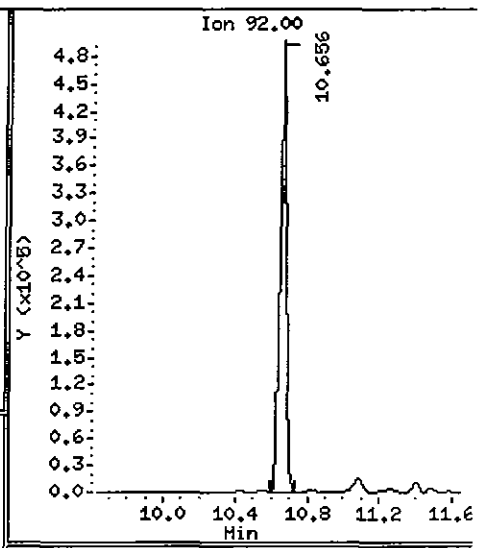
Sample Info: 427758;029ACAEA08150003;79442;0822U9

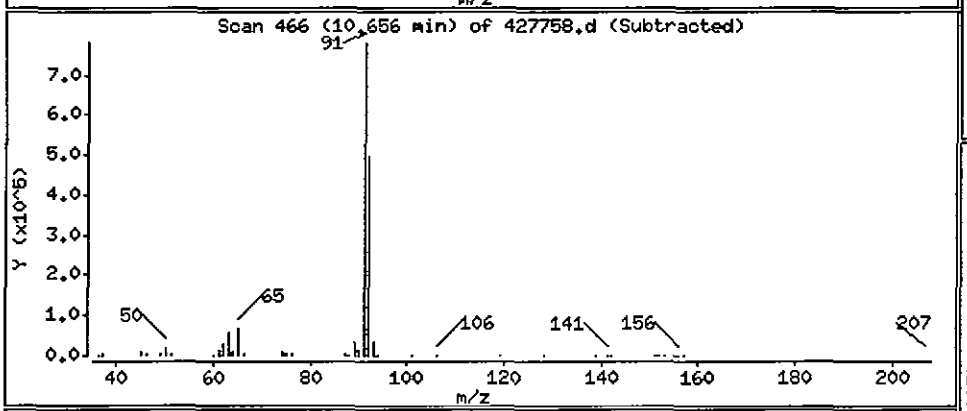
Purge Volume: 200.0 Operator: GMH

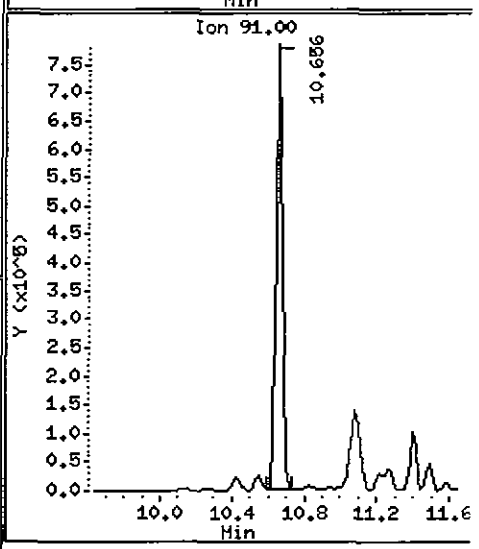
Column phase: DB-1 Column diameter: 0.35

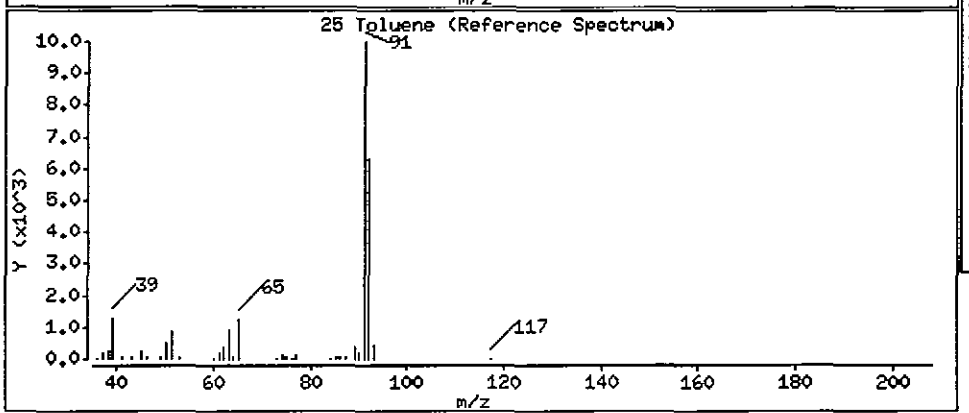
25 Toluene Concentration: 10 ppbv

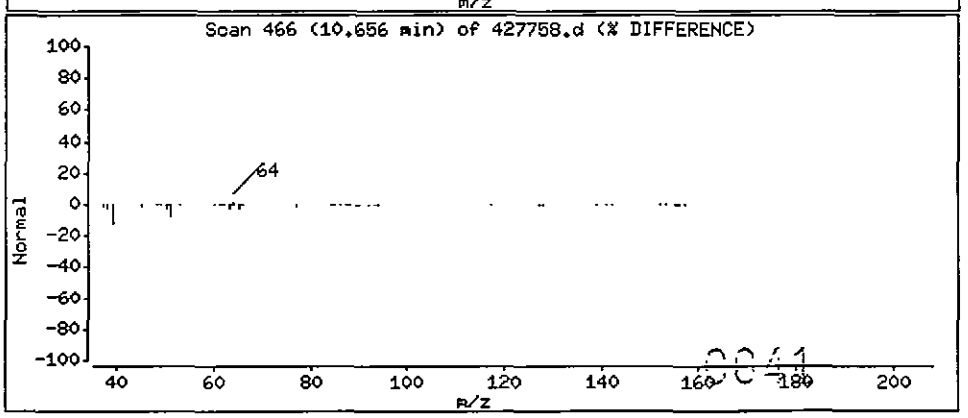












Data File: /chem/W.i/Wsvr.p/wcbnto14.b/427758.d

Date : 22-AUG-2000 14:46

Client ID: CAEA08150003

Instrumen : ''.i

Sample info: 427758;029ACAEA08150003;79442;0822U9

Purge Volume: 200.0

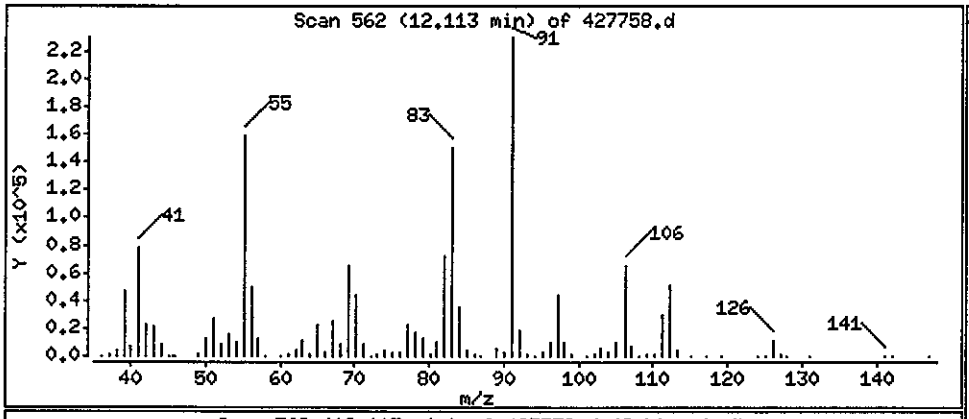
Operator: GHM

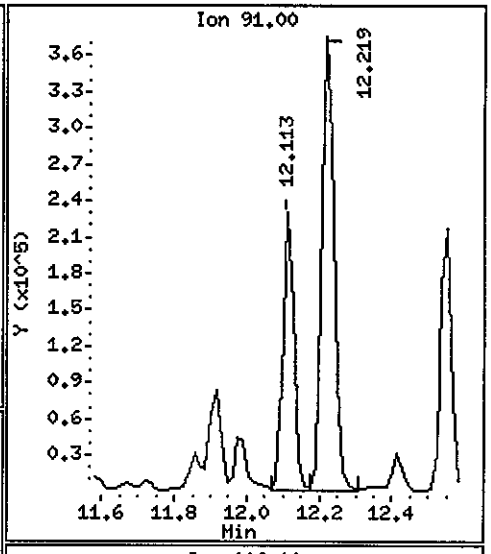
Column phase: DB-1

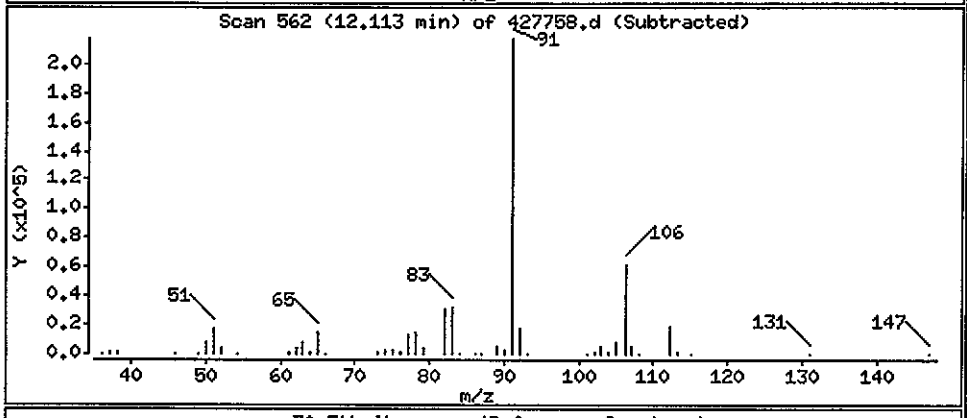
Column diameter: 0.35

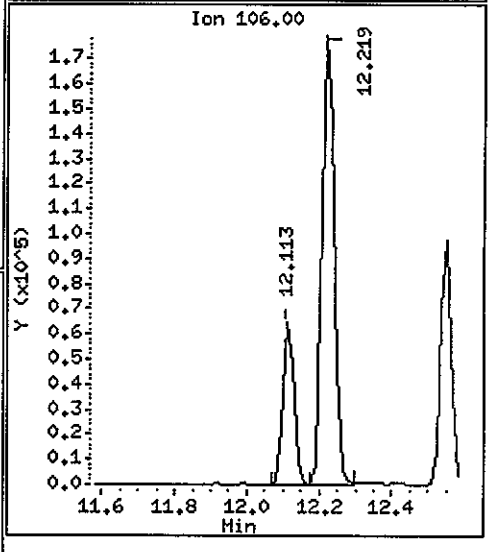
30 Ethylbenzene

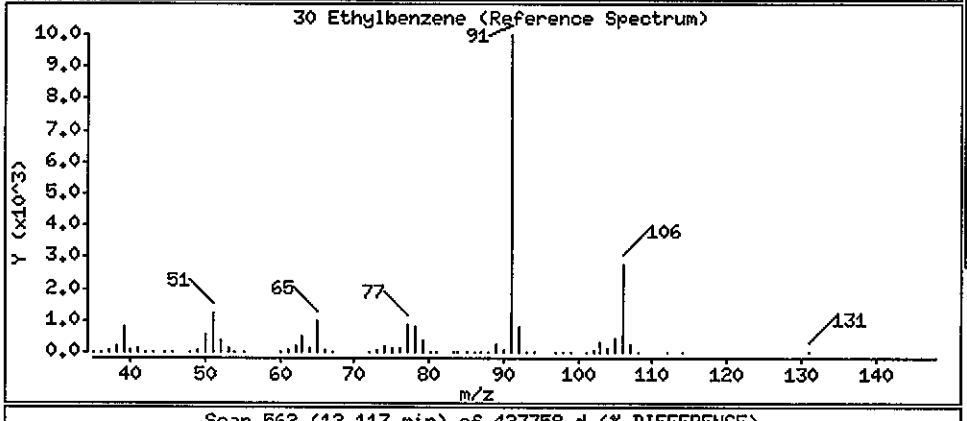
Concentration: 1.7 ppbv

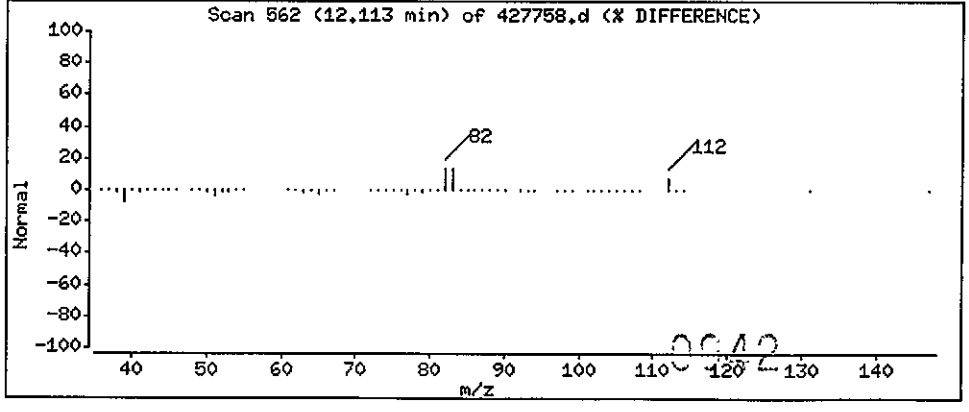












Data File: /chem/W.i/Wsvr.p/wcbnto14.b/427758.d

Date : 22-AUG-2000 14:46

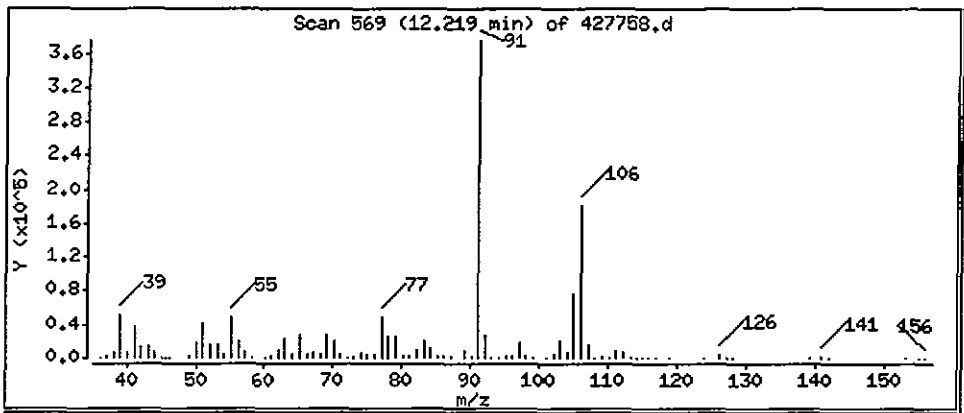
Client ID: CAEA08150003 Instrument: W.i

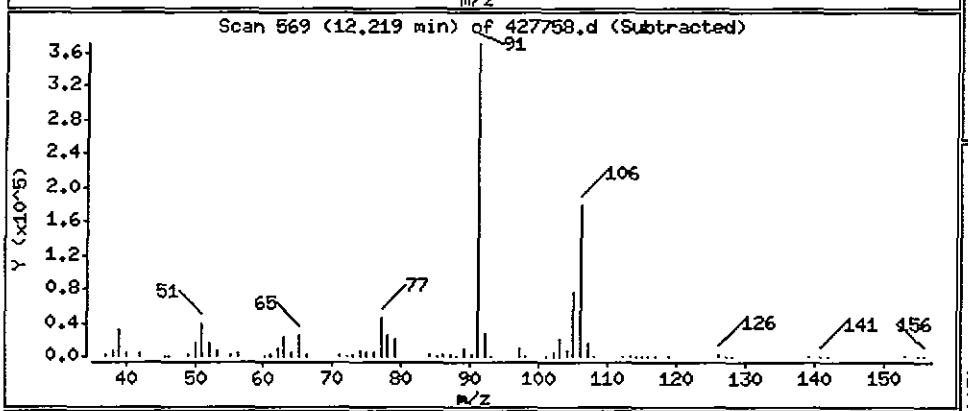
Sample Info: 427758;029ACAEA08150003;79442;0822U9

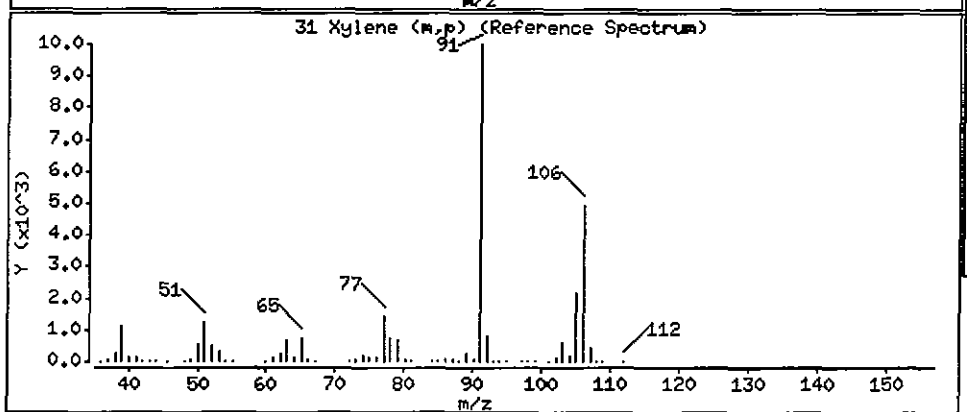
Purge Volume: 200.0 Operator: GMM

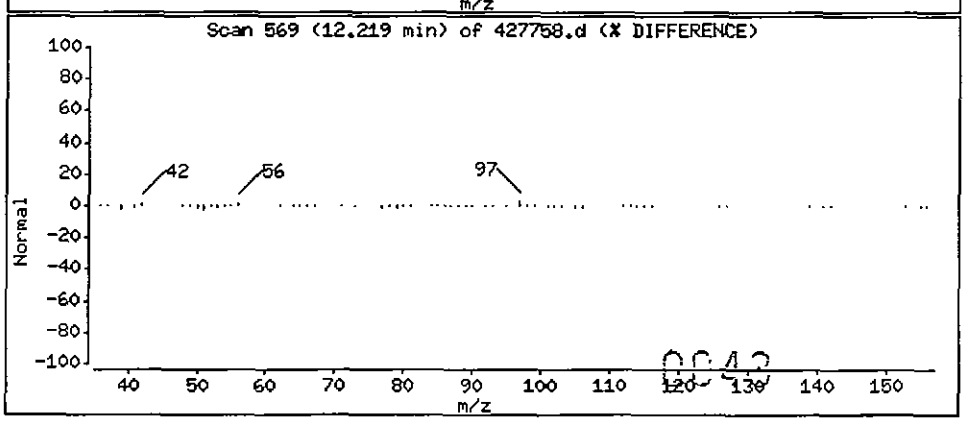
Column phase: DB-1 Column diameter: 0.35

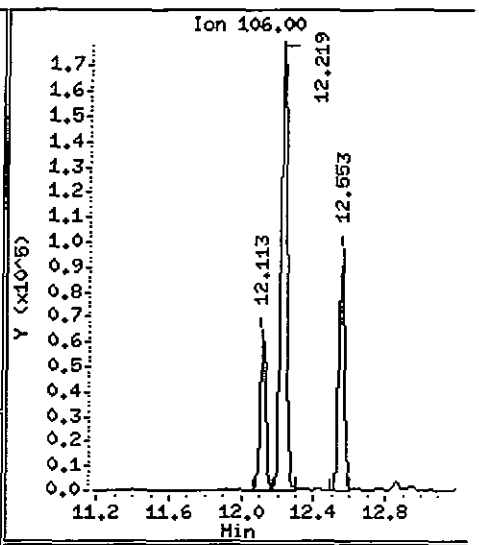
31 Xylene (m,p) Concentration: 4.2 ppbv

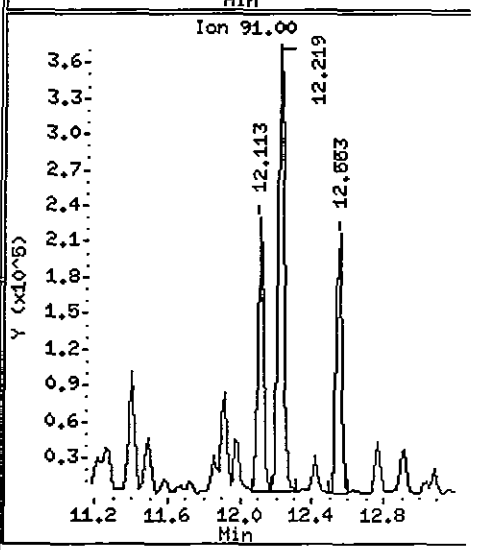












Data File: /chem/W.i/Wsvr.p/wcbnto14.b/427758.d

Date : 22-AUG-2000 14:46

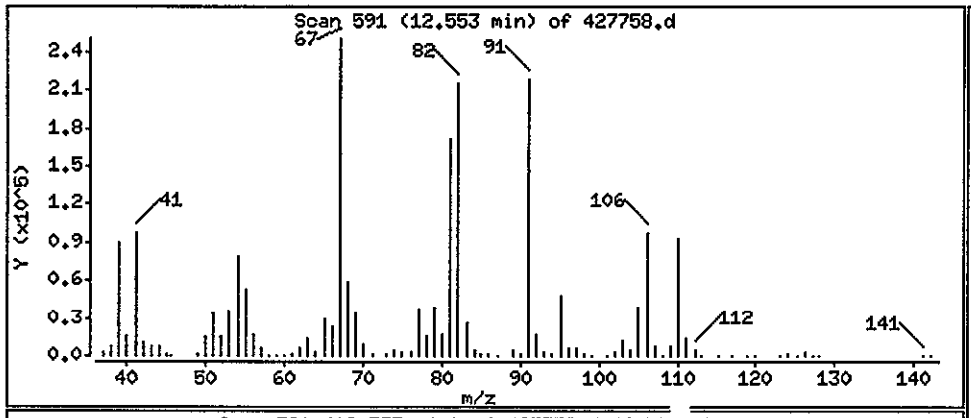
Client ID: CAEA08150003 Instrument: W.i

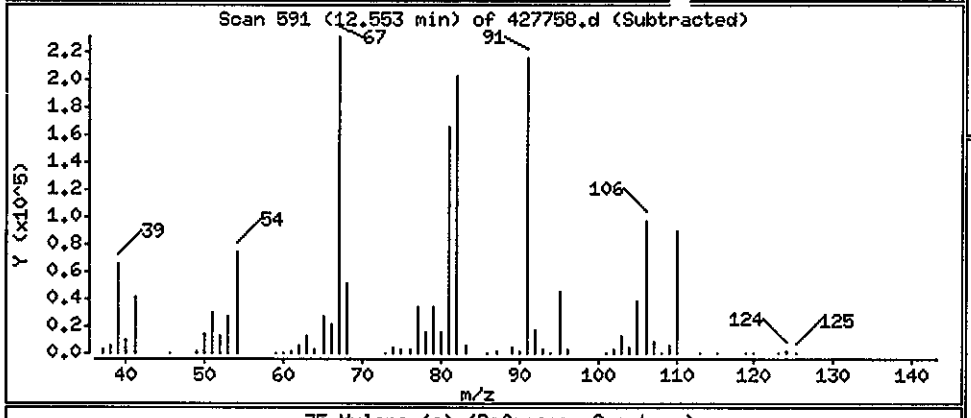
Sample Info: 427758;029ACAEA08150003;79442;0822U9

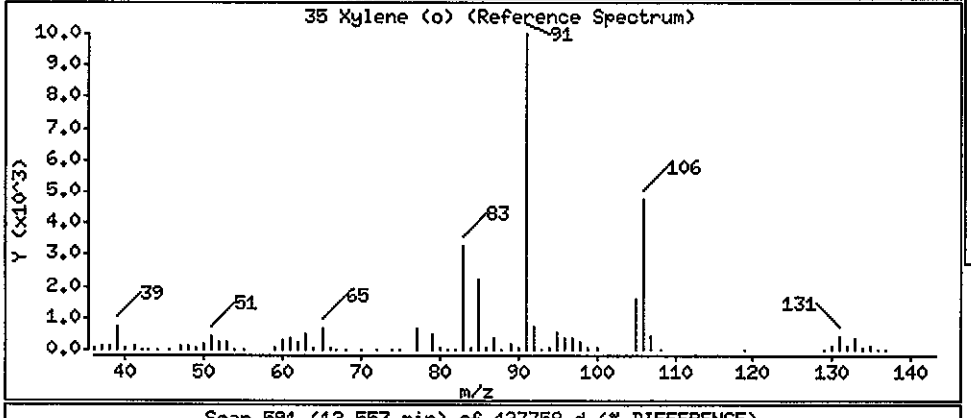
Purge Volume: 200.0 Operator: GMM

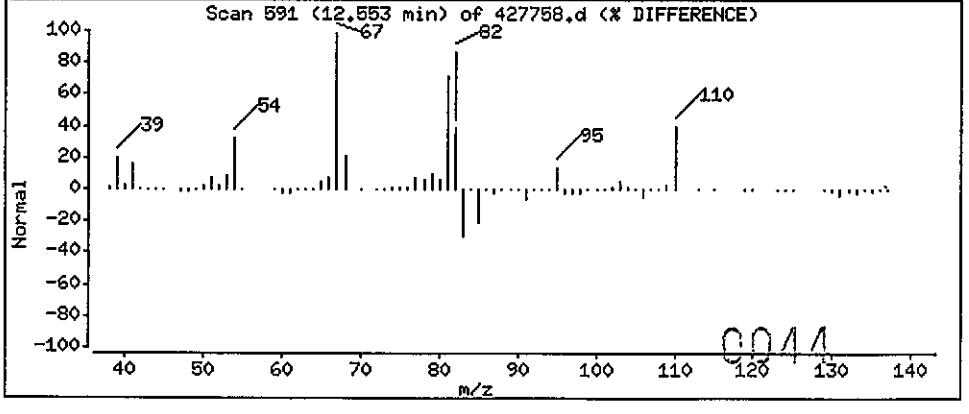
Column phase: DB-1 Column diameter: 0.35

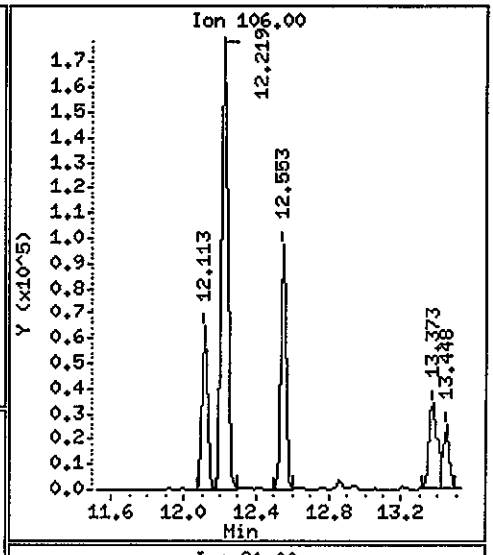
35 Xylene (o) Concentration: 2.1 ppbv

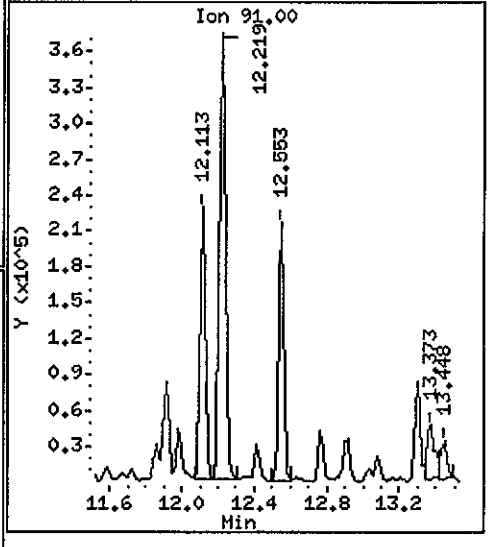












Data File: /chem/W.i/Wsvr.p/wcbnto14.b/427758.d

Date : 22-AUG-2000 14:46

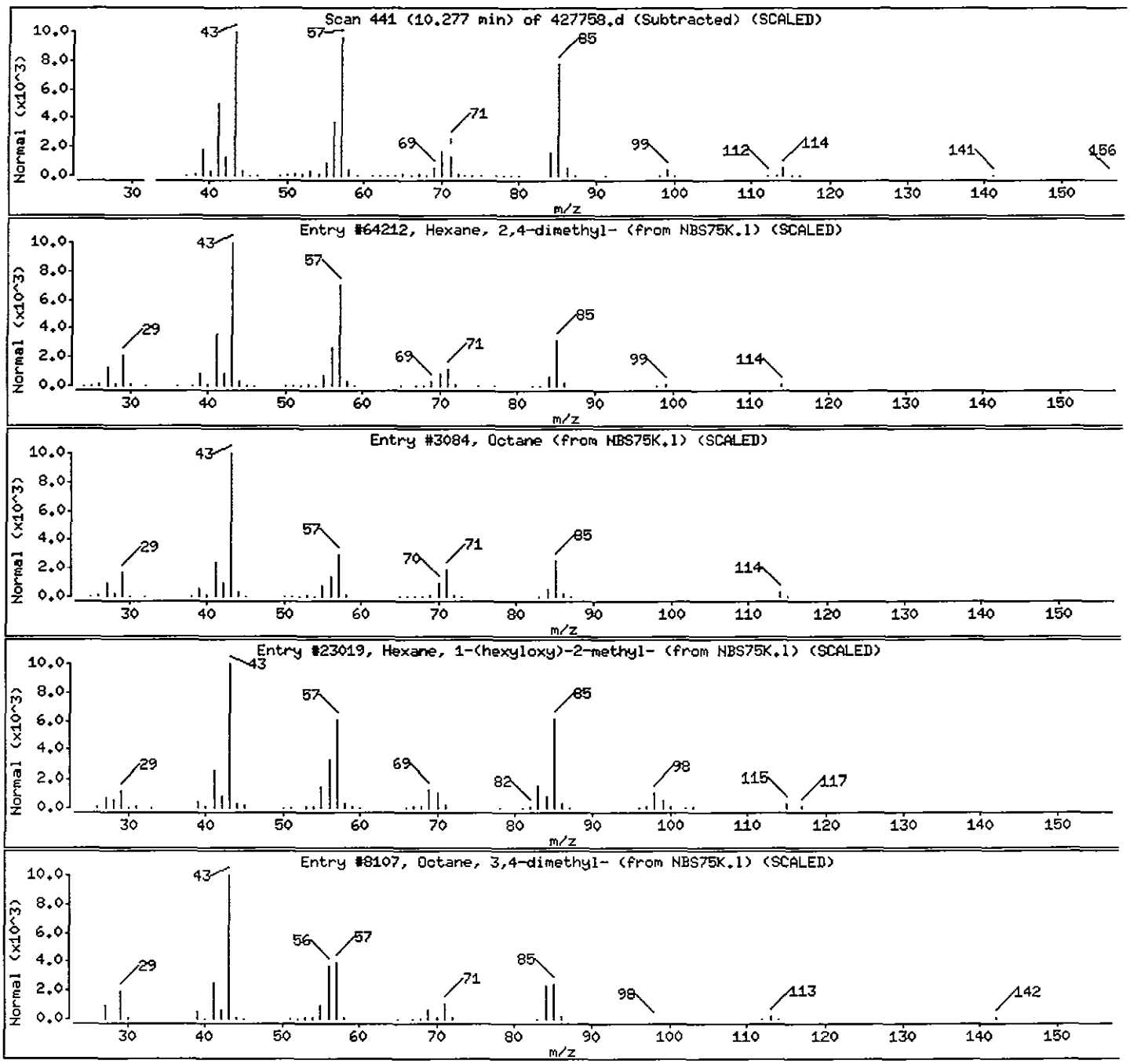
Client ID: CAEA08150003 Instrument: W.i

Sample Info: 427758;029ACAEA08150003;79442;0822U9

Purge Volume: 200.0 Operator: GHM

Column phase: DB-1 Column diameter: 0.35

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown alkane						
Hexane, 2,4-dimethyl-	589-43-5	NBS75K.l	64212	91	C8H18	114
Octane	111-65-9	NBS75K.l	3084	72	C8H18	114
Hexane, 1-(hexyloxy)-2-methyl-	74421-17-3	NBS75K.l	23019	72	C13H28O	200
Octane, 3,4-dimethyl-	15869-92-8	NBS75K.l	8107	50	C10H22	142



0045

Data File: /chem/W.i/Wsvr.p/wcbnto14.b/427758.d

Date : 22-AUG-2000 14:46

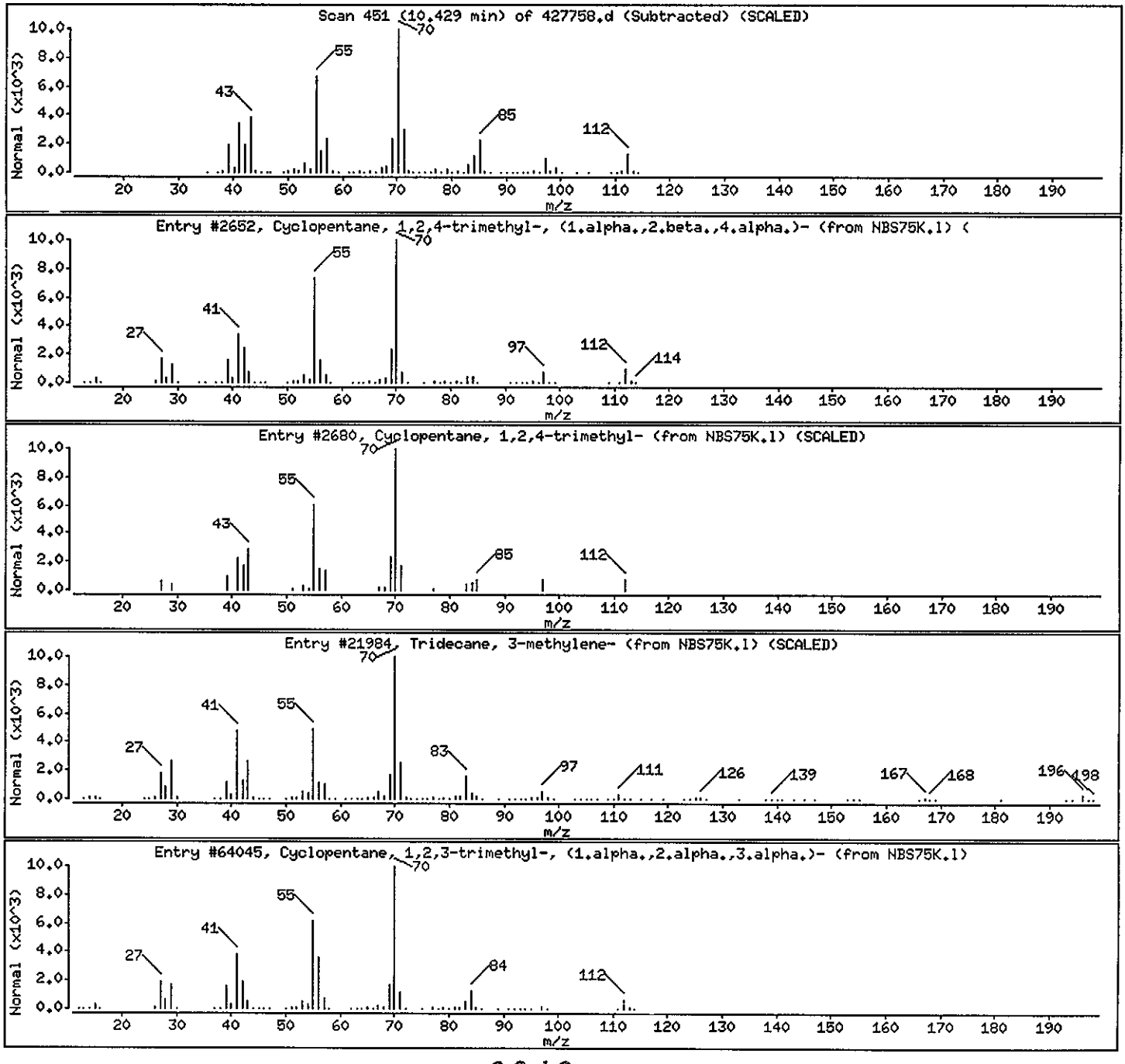
Client ID: CAEA08150003 Instrument: W.i

Sample Info: 427758;029ACAEA08150003;79442;0[illegible]

Purge Volume: 200.0 Operator: GMM

Column phase: DB-1 Column diameter: 0.35

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown alkane						
Cyclopentane, 1,2,4-trimethyl-, (1.alpha	16883-48-0	NBS75K.l	2652	76	C8H16	112
Cyclopentane, 1,2,4-trimethyl-	2815-58-9	NBS75K.l	2680	74	C8H16	112
Tridecane, 3-methylene-	19780-34-8	NBS75K.l	21984	64	C14H28	196
Cyclopentane, 1,2,3-trimethyl-, (1.alpha	2613-69-6	NBS75K.l	64045	64	C8H16	112



Data File: /chem/W.i/Wsvr.p/ucbnto14.b/427758.d

Date : 22-AUG-2000 14:46

Client ID: CAEA08150003

Instrument: W.i

Sample Info: 427758;029ACAEA08: ,003;79442;0822U9

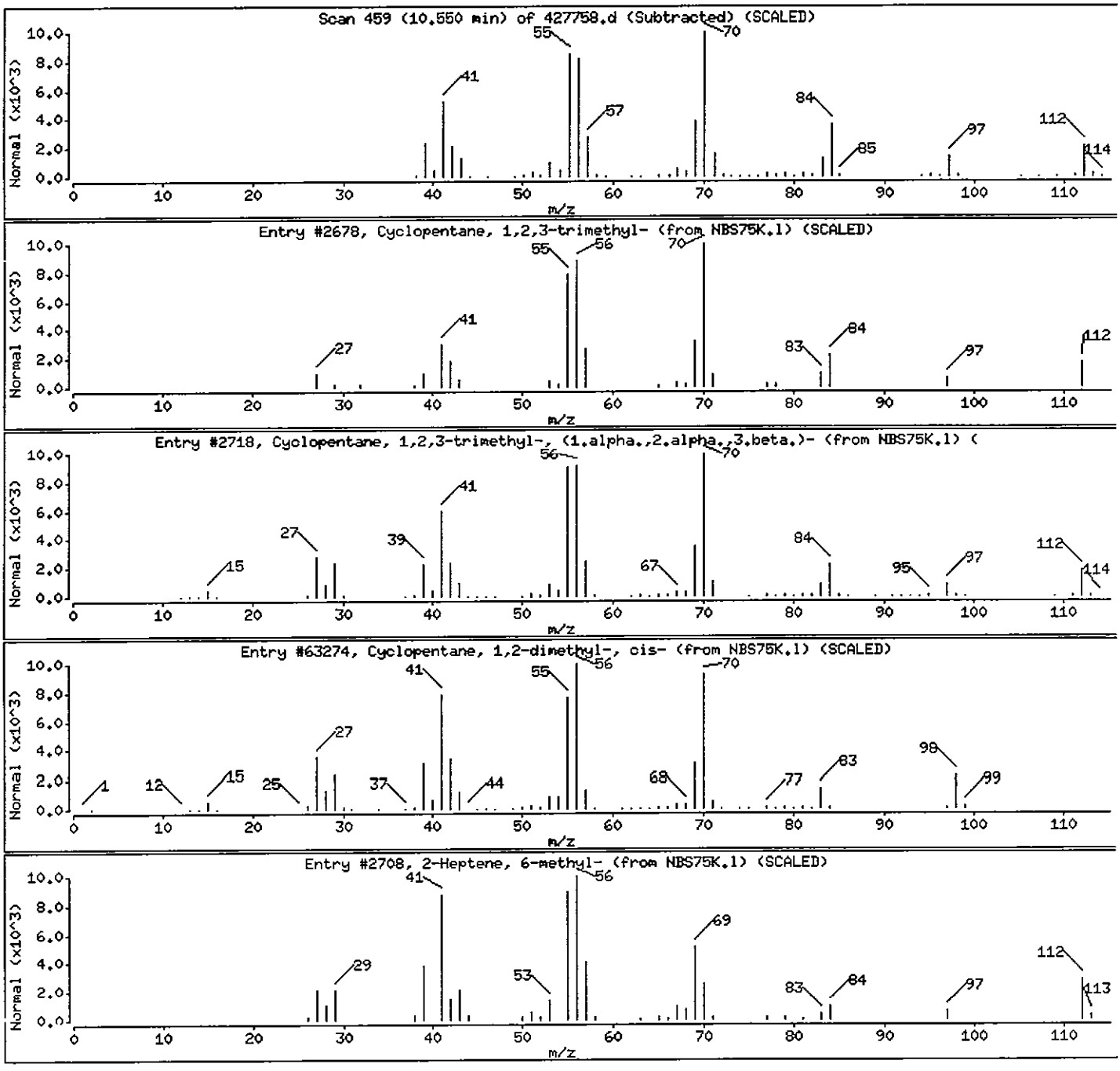
Purge Volume: 200.0

Operator: GHH

Column phase: DB-1

Column diameter: 0.35

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown alkane						
Cyclopentane, 1,2,3-trimethyl-	2815-57-8	NBS75K.l	2678	91	C8H16	112
Cyclopentane, 1,2,3-trimethyl-, (1.alpha	15890-40-1	NBS75K.l	2718	91	C8H16	112
Cyclopentane, 1,2-dimethyl-, cis-	1192-18-3	NBS75K.l	63274	64	C7H14	98
2-Heptene, 6-methyl-	73548-72-8	NBS75K.l	2708	50	C8H16	112



Data File: /chem/W.i/Wsvr.p/wcbnto14.b/427758.d

Date : 22-AUG-2000 14:46

Client ID: CAEA08150003

Instrument: W.i

Sample Info: 427 ,8;02 ,CAEA08150003;79442;0822U9

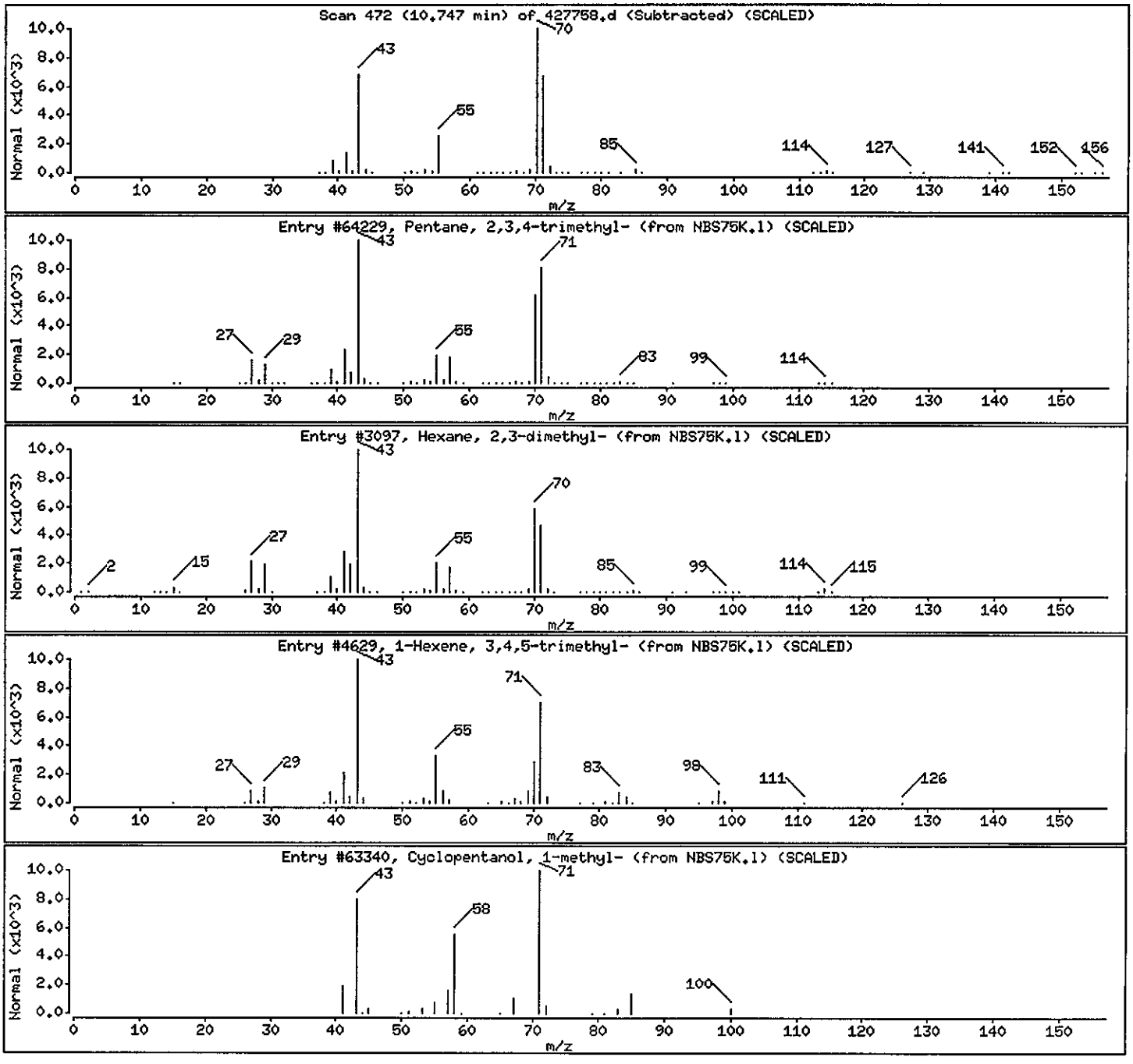
Purge Volume: 200.0

Operator: CMM

Column phase: DB-1

Column diameter: 0.35

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown aliphatic compound						
Pentane, 2,3,4-trimethyl-	565-75-3	NBS75K.l	64229	43	C8H18	114
Hexane, 2,3-dimethyl-	584-94-1	NBS75K.l	3097	43	C8H18	114
1-Hexene, 3,4,5-trimethyl-	56728-10-0	NBS75K.l	4629	25	C9H18	126
Cyclopentanol, 1-methyl-	1462-03-9	NBS75K.l	63340	12	C6H12O	100



Data File: /chem/W.i/Wsvr.p/wcbnto14.b/427758.d

Date : 22-AUG-2000 14:46

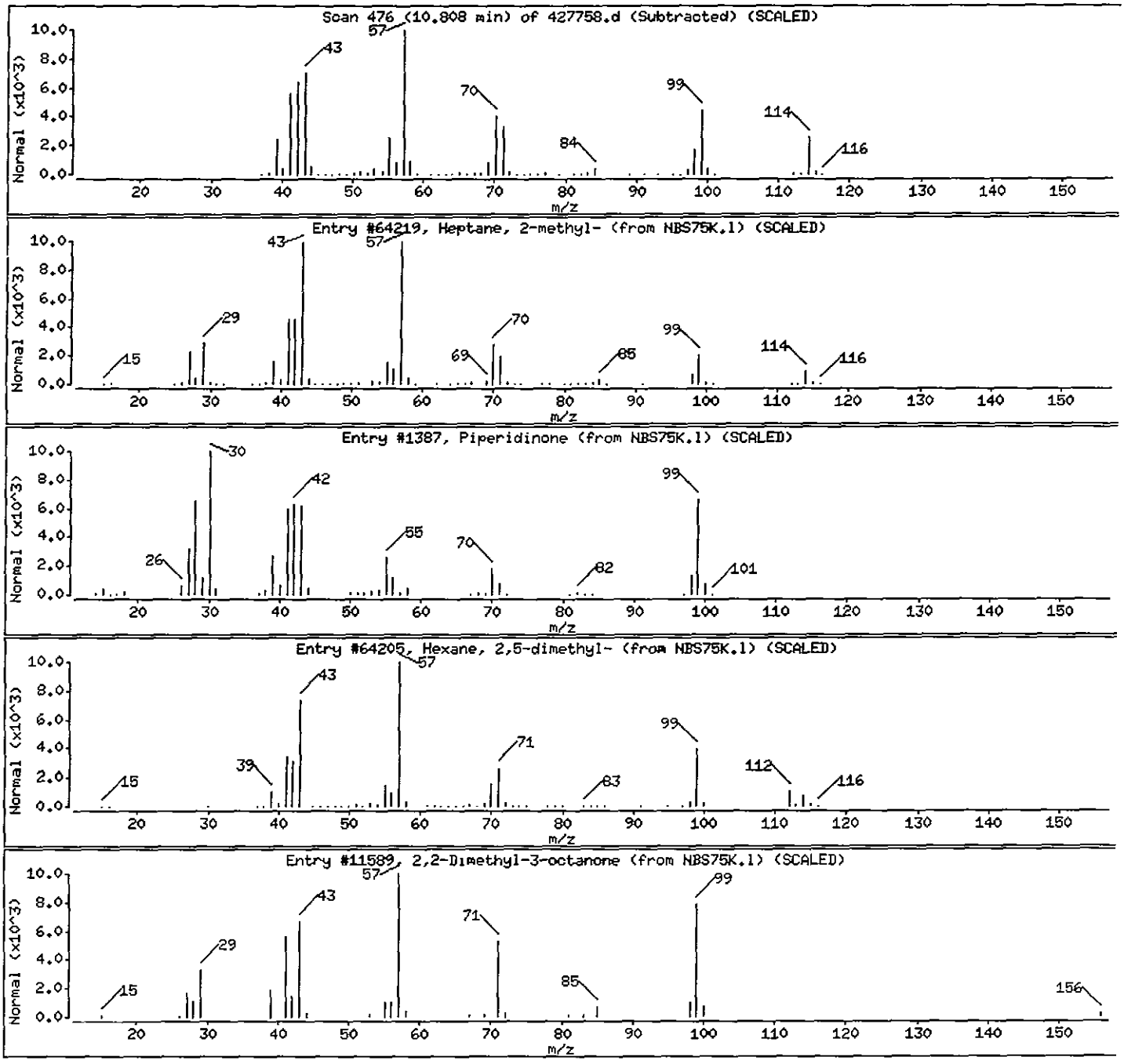
Client ID: CAEA08150003 Instrument: W.i

Sample Info: 427758;029ACAEA08150003;79442;06_2U9

Purge Volume: 200.0 Operator: GMH

Column phase: DB-1 Column diameter: 0.35

Library Search Compound Hatch	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown aliphatic compound						
Heptane, 2-methyl-	592-27-8	NBS75K.l	64219	83	C8H18	114
Piperidinone	27154-43-4	NBS75K.l	1387	50	C5H9NO	99
Hexane, 2,5-dimethyl-	592-13-2	NBS75K.l	64205	47	C8H18	114
2,2-Dimethyl-3-octanone	5340-64-7	NBS75K.l	11589	35	C10H20O	156



Data File: /chem/W.i/Wsvr.p/wcbnto14.b/427758.d

Date : 22-AUG-2000 14:46

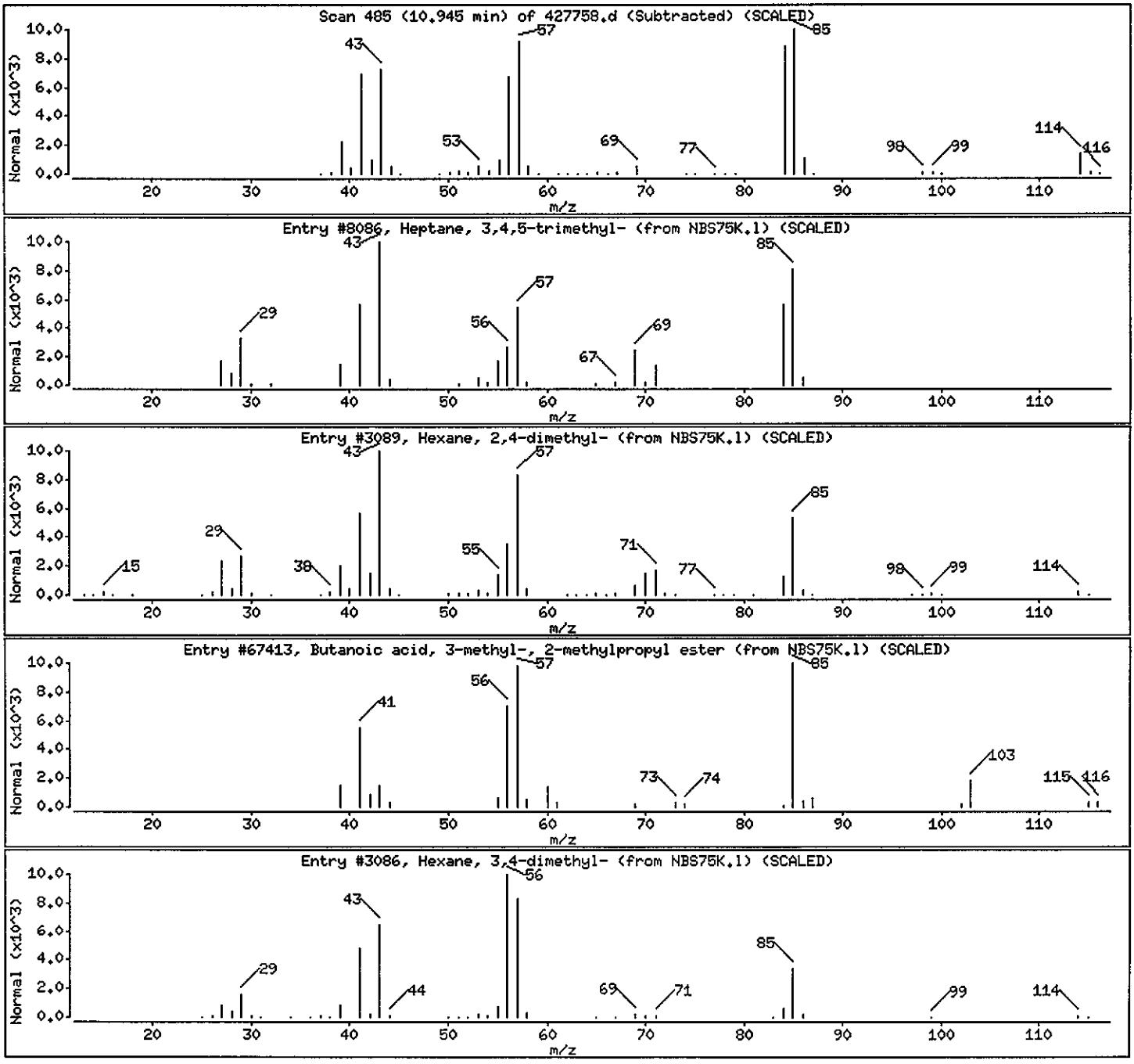
Client ID: CAEA08150003 Instrume :: W.i

Sampl Info: 427758;029ACAEA08150003;79442;0822U9

Purge Volume: 200.0 Operator: GMM

Column phase: DB-1 Column diameter: 0.35

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown alkane						
Heptane, 3,4,5-trimethyl-	20278-89-1	NBS75K.l	8086	64	C10H22	142
Hexane, 2,4-dimethyl-	589-43-5	NBS75K.l	3089	50	C8H18	114
Butanoic acid, 3-methyl-, 2-methylpropyl	589-59-3	NBS75K.l	67413	47	C9H1802	158
Hexane, 3,4-dimethyl-	583-48-2	NBS75K.l	3086	47	C8H18	114



Data File: /chem/W.i/Wsvr.p/wcbnto14.b/427758.d

Date : 22-AUG-2000 14:46

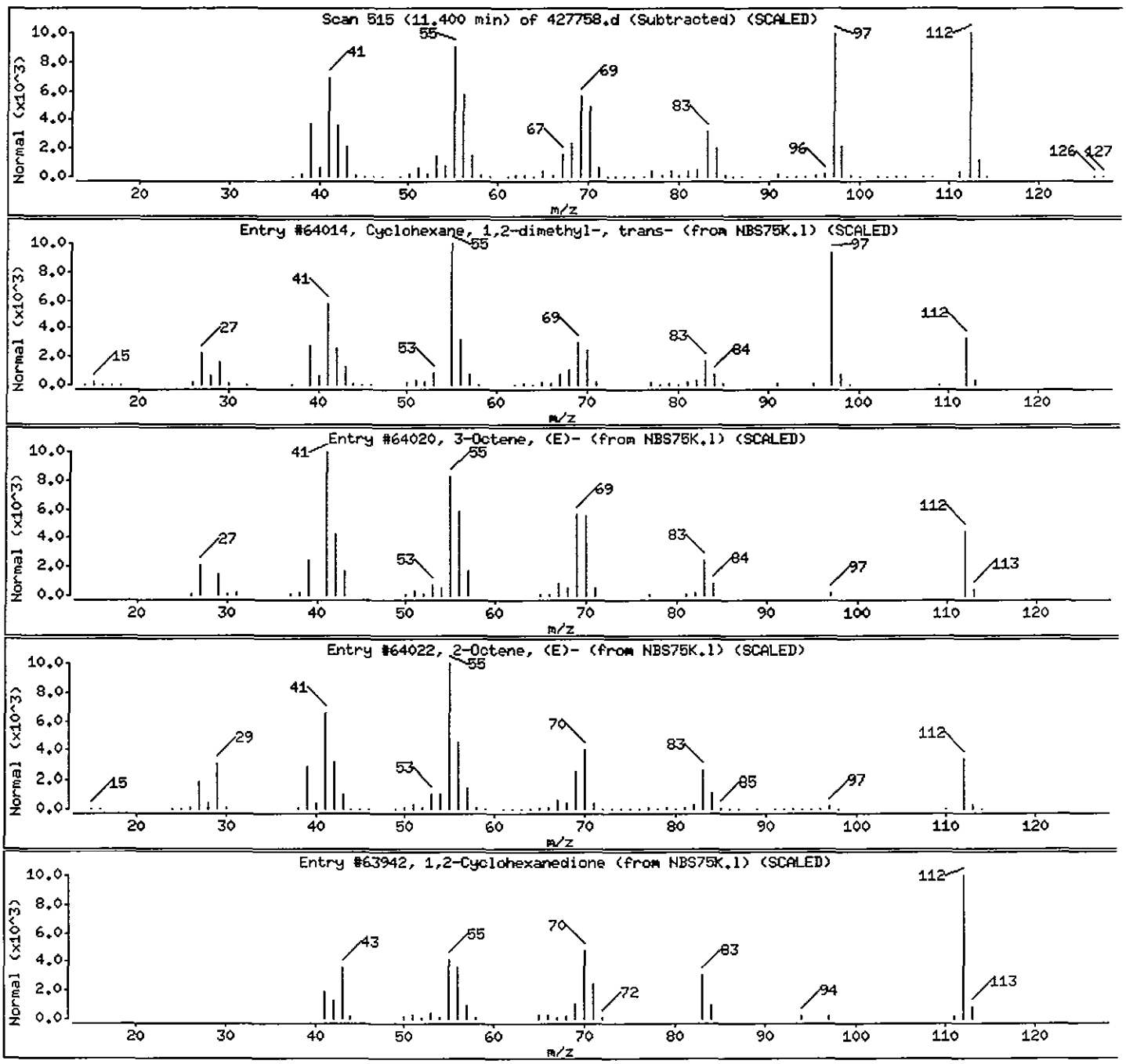
Cl ent ID: CAEA08150003 Instrument: W.i

Sample Info: 427758;029ACAEA08150003;79442;0822U9

Purge Volume: 200.0 Operator: GMM

Column phase: DB-1 Column diameter: 0.35

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown aliphatic compound						
Cyclohexane, 1,2-dimethyl-, trans-	6876-23-9	NBS75K.l	64014	70	C8H16	112
3-Octene, (E)-	14919-01-8	NBS75K.l	64020	60	C8H16	112
2-Octene, (E)-	13389-42-9	NBS75K.l	64022	60	C8H16	112
1,2-Cyclohexanedione	765-87-7	NBS75K.l	63942	60	C6H8O2	112



Data File: /chem/W.i/Wsvr.p/wcbnto14.b/427758.d

Date : 22-AUG-2000 14:46

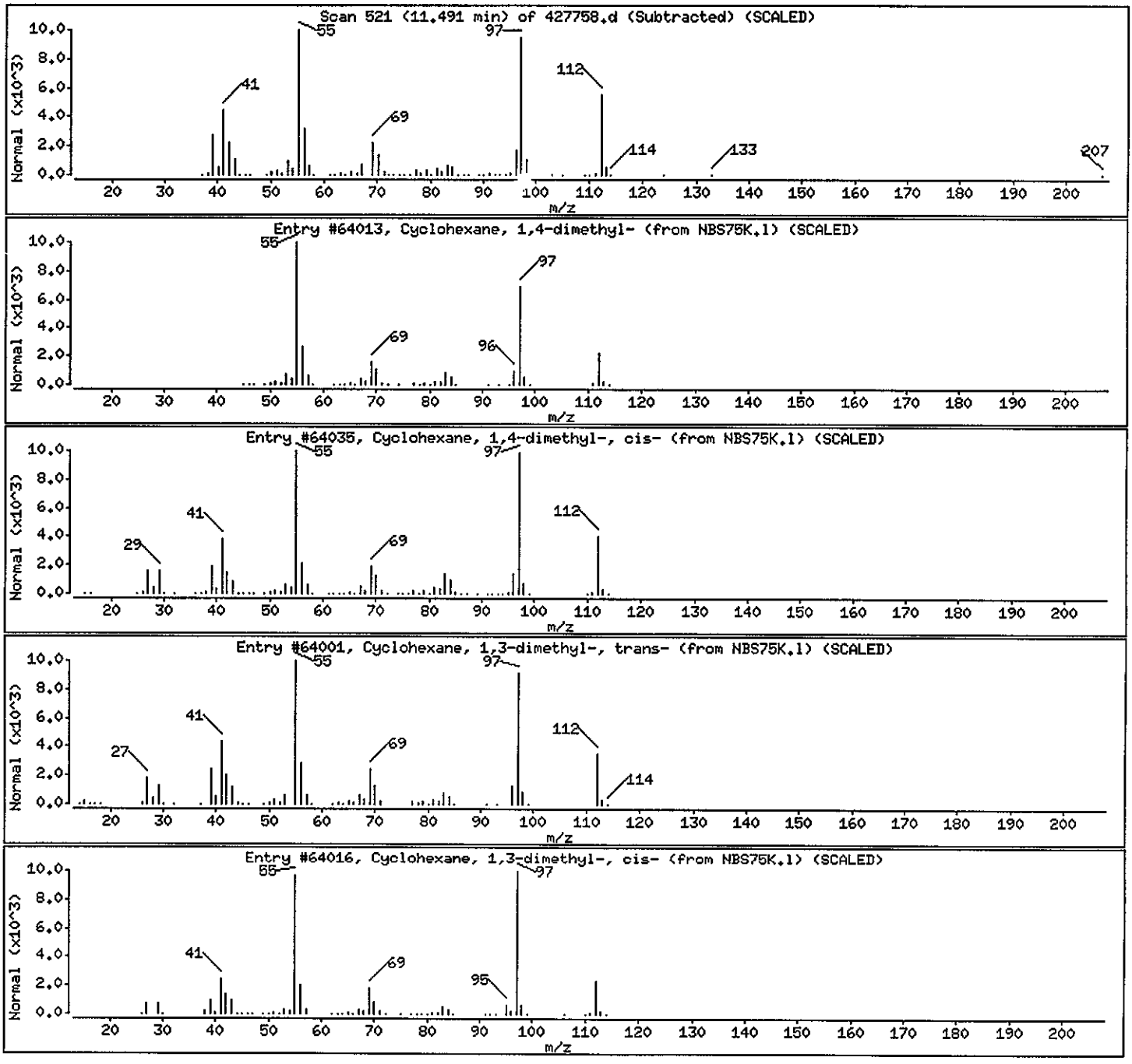
Client ID: CAEA08150003 Instrument: W.i

Sample Info: 427758;029ACAEA08150003;79442;0822U9

Purge Volume: 200.0 Operator: GMM

Column phase: DB-1 Column diameter: 0.35

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown dimethylcyclohexane						
Cyclohexane, 1,4-dimethyl-	589-90-2	NBS75K.l	64013	94	C8H16	112
Cyclohexane, 1,4-dimethyl-, cis-	624-29-3	NBS75K.l	64035	90	C8H16	112
Cyclohexane, 1,3-dimethyl-, trans-	2207-03-6	NBS75K.l	64001	86	C8H16	112
Cyclohexane, 1,3-dimethyl-, cis-	638-04-0	NBS75K.l	64016	72	C8H16	112



Data File: /chem/W.i/Wsvr.p/wcbnto14.b/427758.d

Date : 22-AUG-2000 14:46

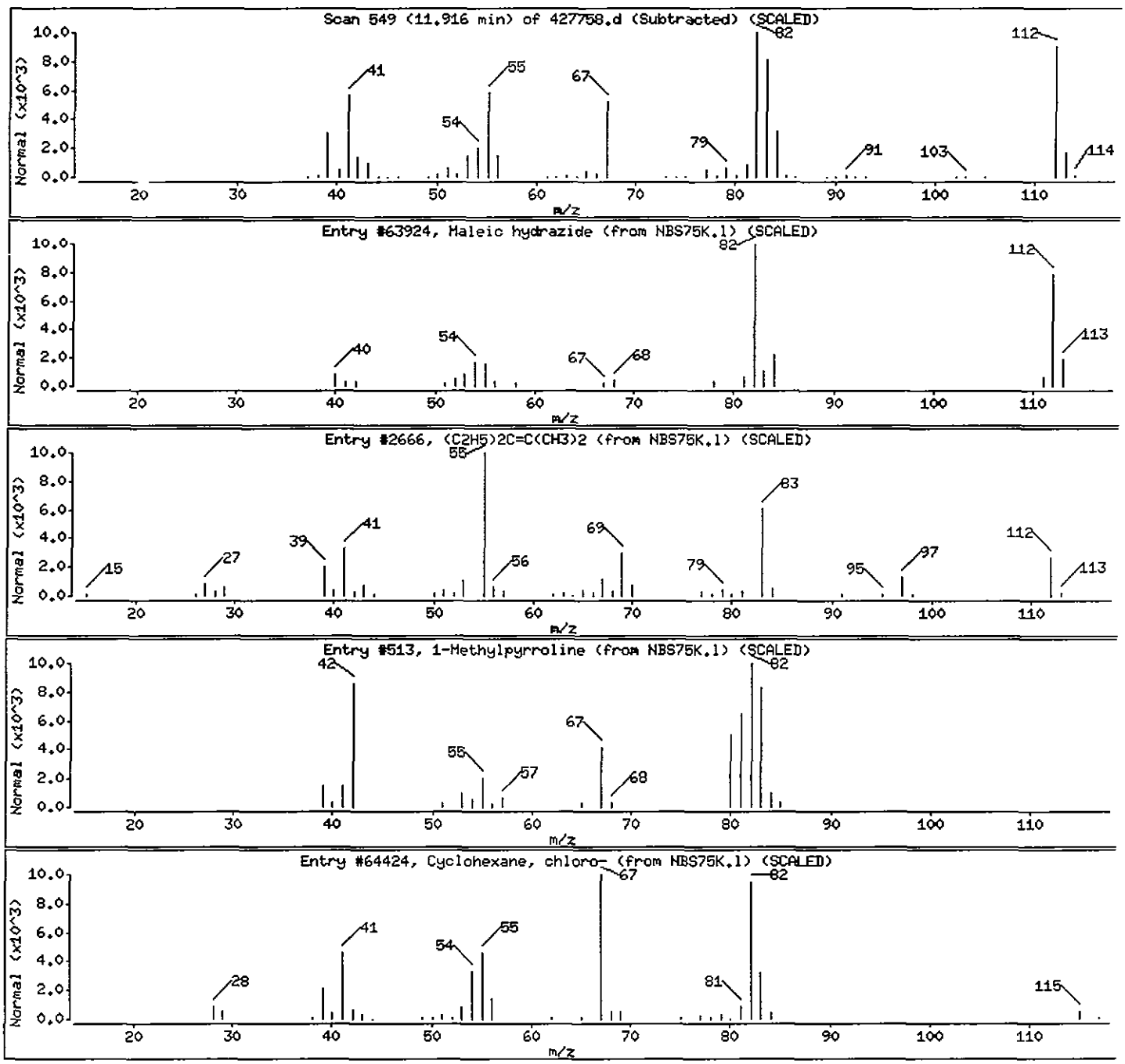
Client ID: CAEA08150003 Instrument: W.i

Sample Info: 427758;029ACAEA08150003;79442;0822U9

Purge Volume: 200.0 Operator: GMM

Column phase: DB-1 Column diameter: 0.35

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Maleic hydrazide	123-33-1	NBS75K.l	63924	50	C4H4N2O2	112
(C2H5)2C=C(CH3)2	19780-67-7	NBS75K.l	2666	43	C8H16	112
1-Methylpyrroline	0-00-0	NBS75K.l	513	40	C5H9N	83
Cyclohexane, chloro-	542-18-7	NBS75K.l	64424	38	C6H11Cl	118



Data File: /chem/W.i/Wsvr.p/wcbnto14.b/427758.d

Date : 22-AUG-2000 14:46

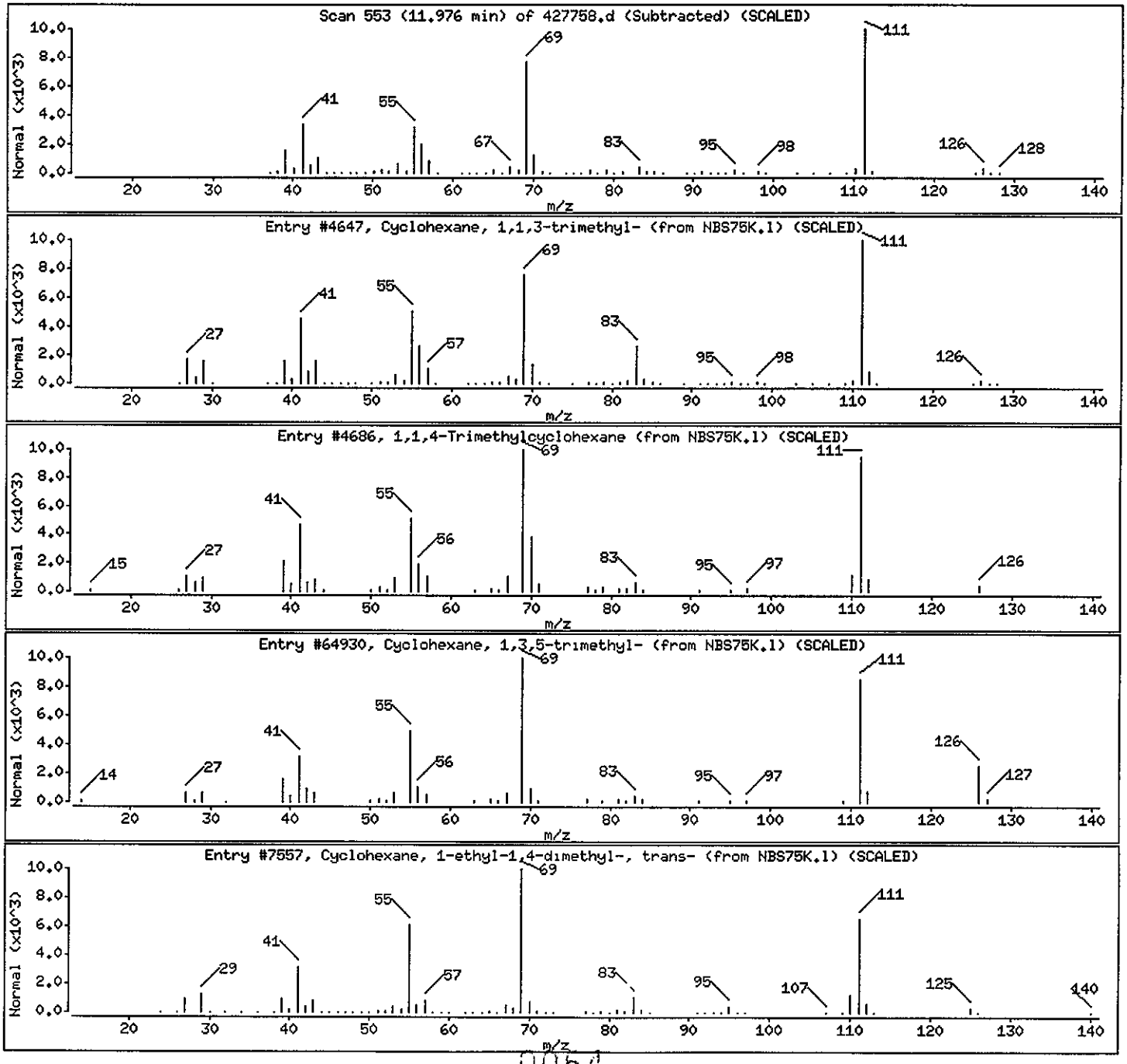
Client ID: CAEA08150003 Instrument: W.i

Sample Info: 427758;029ACAEA08150003;79442;0[illegible]

Purge Volume: 200.0 Operator: GMM

Column phase: DB-1 Column diameter: 0.35

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown trimethylcyclohexane						
Cyclohexane, 1,1,3-trimethyl-	3073-66-3	NBS75K.l	4647	91	C9H18	126
1,1,4-Trimethylcyclohexane	7094-27-1	NBS75K.l	4686	78	C9H18	126
Cyclohexane, 1,3,5-trimethyl-	1839-63-0	NBS75K.l	64930	40	C9H18	126
Cyclohexane, 1-ethyl-1,4-dimethyl-, tran	62238-32-8	NBS75K.l	7557	39	C10H20	140



FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

ACCANA SAMPLE NO.

CAIA08150003

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 79442

Matrix: (soil/water) AIR Lab Sample ID: 427756

Sample wt/vol: 25 (g/mL) ML Lab File ID: 427756D

Level: (low/med) LOW Date Received: 08/18/00

% Moisture: not dec. _____ Date Analyzed: 08/22/00

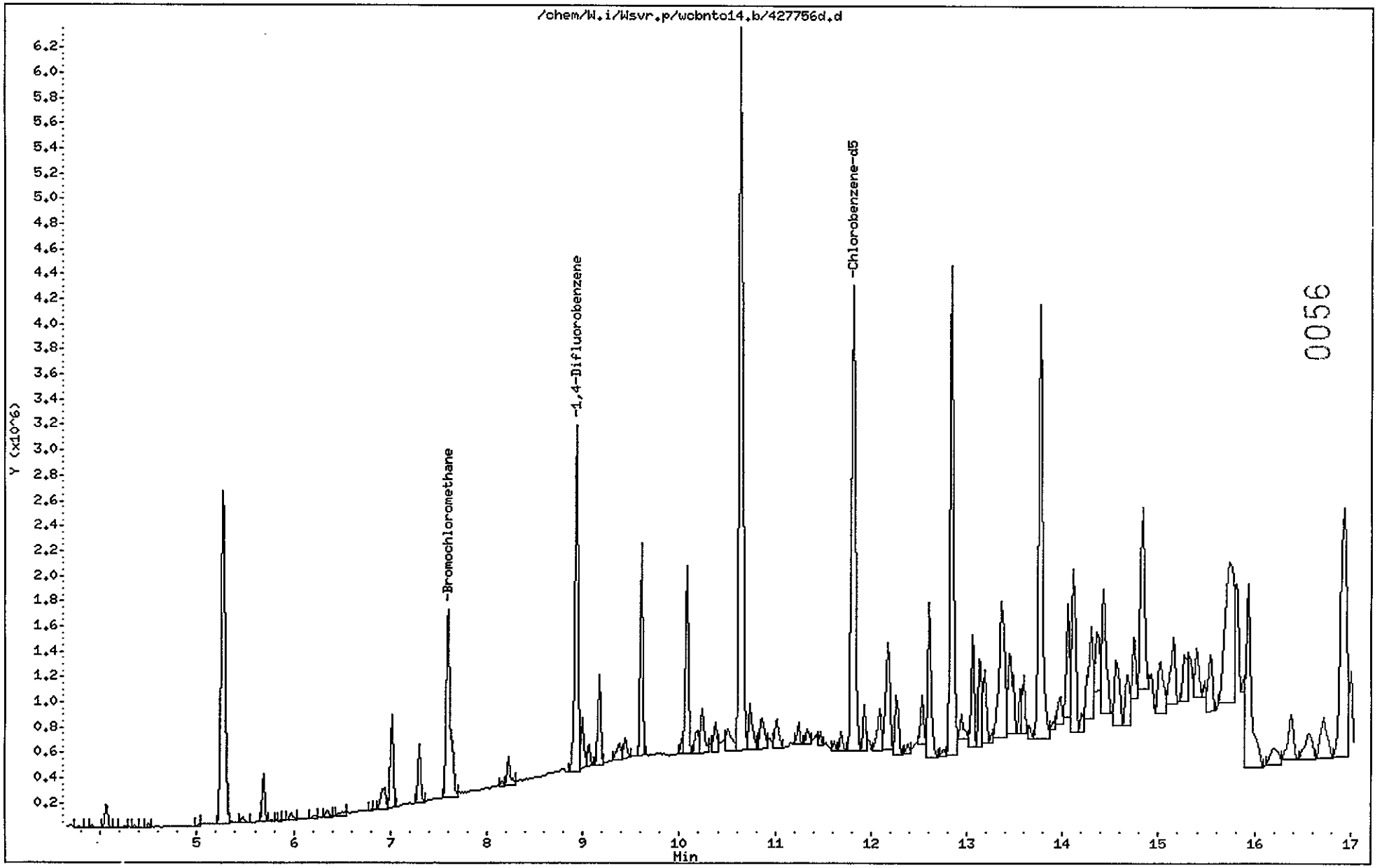
GC Column: DB-1 ID: 0.35 (mm) Dilution Factor: 8.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) PPBV	Q
74-87-3	Chloromethane	4.0	U
75-01-4	Vinyl Chloride	4.0	U
74-83-9	Bromomethane	4.0	U
75-00-3	Chloroethane	4.0	U
75-69-4	Trichlorofluoromethane	4.0	U
75-09-2	Methylene Chloride	4.9	
75-34-3	1,1-Dichloroethane	4.0	U
67-66-3	Chloroform	4.0	U
71-55-6	1,1,1-Trichloroethane	4.0	U
56-23-5	Carbon Tetrachloride	4.0	U
71-43-2	Benzene	4.0	U
107-06-2	1,2-Dichloroethane	4.0	U
79-01-6	Trichloroethene	4.0	U
78-87-5	1,2-Dichloropropane	4.0	U
10061-01-5	cis-1,3-Dichloropropene	4.0	U
108-88-3	Toluene	190	
10061-02-6	trans-1,3-Dichloropropene	4.0	U
79-00-5	1,1,2-Trichloroethane	4.0	U
127-18-4	Tetrachloroethene	4.0	U
108-90-7	Chlorobenzene	4.0	U
100-41-4	Ethylbenzene	4.4	
1330-20-7	Xylene (total)	31	
100-42-5	Styrene	4.0	U
1330-20-7	Xylene (m,p)	22	
95-47-6	Xylene (o)	9.1	
79-34-5	1,1,2,2-Tetrachloroethane	4.0	U
541-73-1	1,3-Dichlorobenzene	4.0	U
106-46-7	1,4-Dichlorobenzene	4.0	U
95-50-1	1,2-Dichlorobenzene	4.0	U

Data File: /chem/W.i/Wsvr.p/wcbnto14.b/427756d.d
Date : 2.-AUG-2000 13:40
Client ID: CAIA08150003
Sample Info: 427756;029ACAIA08150003;79442;0822U9
Purge Volume: 200.0
Column phase: DB-1

Instrument: W.i
Operator: GMM
Column diameter: 0.35



STL Burlington

AIR TOXICS QUANTITATION REPORT

Data file : /chem/W.i/Wsvr.p/wcbnto14.b/427756d.d
Lab Smp Id: 427756 Client Smp ID: CAIA08150003
Inj Date : 22-AUG-2000 13:40
Operator : GMM Inst ID: W.i
Smp Info : 427756;029ACAIA08150003;79442;0822U9
Misc Info : 25ml
Comment :
Method : /chem/W.i/Wsvr.p/wcbnto14.b/ato14.m
Meth Date : 30-Aug-2000 16:03 mim Quant Type: ISTD
Cal Date : 10-JUL-2000 13:37 Cal File: cb0005i2.d
Als bottle: 2
Dil Factor: 8.00000
Integrator: HP RTE Compound Sublist: ACCANA.sub
Target Version: 3.50
Processing Host: chemsvr4

Concentration Formula: Amt * DF * X* Uf/Vo) * CpndVariable

Name	Value	Description
DF	8.00000	Dilution Factor
X	200.00000	method volume factor
Uf	1.00000	ng unit correction factor
Vo	200.00000	Sample Volume purged (mL)

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	FINAL (ppbv)
	2 Chloromethane	50	Compound Not Detected.					
	4 Vinyl Chloride	62	Compound Not Detected.					
	5 Bromomethane	94	Compound Not Detected.					
	6 Chloroethane	64	Compound Not Detected.					
	7 Trichlorofluoromethane	101	Compound Not Detected.					
	9 Methylene Chloride	49	5.983	5.997	(0.787)	37320	0.61495	4.9
	11 1,1-Dichloroethane	63	Compound Not Detected.					
*	13 Bromochloromethane	128	7.606	7.621	(1.000)	519535	10.0000	
	14 Chloroform	83	Compound Not Detected.					
	15 1,2-Dichloroethane	62	Compound Not Detected.					
	16 1,1,1-Trichloroethane	97	Compound Not Detected.					
	17 Benzene	78	Compound Not Detected.					
	18 Carbon Tetrachloride	117	Compound Not Detected.					
*	19 1,4-Difluorobenzene	114	8.942	8.956	(1.000)	2602928	10.0000	
	20 1,2-Dichloropropane	63	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)
	21 Trichloroethene	95	Compound Not Detected.					
	22 cis-1,3-Dichloropropene	75	Compound Not Detected.					
	23 trans-1,3-Dichloropropene	75	Compound Not Detected.					
	24 1,1,2-Trichloroethane	83	Compound Not Detected.					
	25 Toluene	92	10.642	10.641	(0.901)	3008141	23.4449	190
	27 Tetrachloroethene	166	Compound Not Detected.					
*	28 Chlorobenzene-d5	117	11.810	11.809	(1.000)	2560496	10.0000	
	29 Chlorobenzene	112	Compound Not Detected.					
	30 Ethylbenzene	91	12.083	12.082	(1.023)	156090	0.54438	4.4
	31 Xylene (m,p)	106	12.190	12.188	(1.032)	285523	2.71876	22
	32 Styrene	104	Compound Not Detected.					
M	33 Xylene (total)	106				402539	3.85934	31
	34 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					
	35 Xylene (o)	106	12.523	12.522	(1.060)	117016	1.14058	9.1
	38 1,3-Dichlorobenzene	146	Compound Not Detected.					
	39 1,4-Dichlorobenzene	146	Compound Not Detected.					
	40 1,2-Dichlorobenzene	146	Compound Not Detected.					

Data File: /chem/W.i/Wsvr.p/ucbnto14.b/427756d.d

Date : 22-AUG-2000 13:40

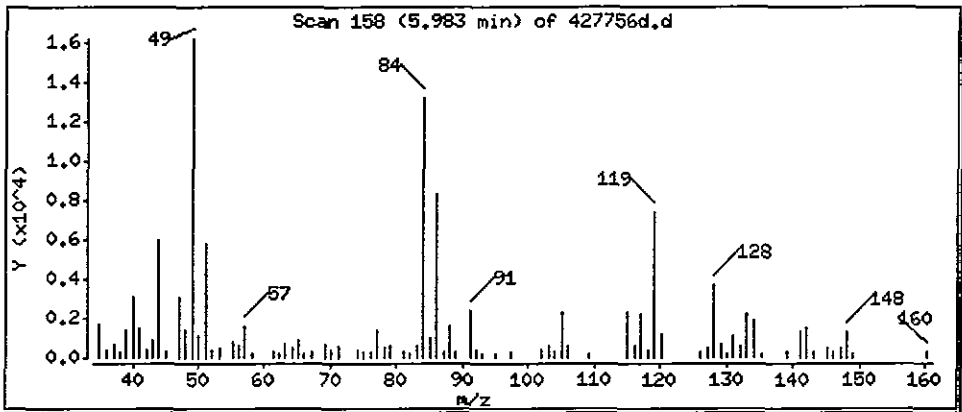
Cl ent ID: CAIA08150003 Instrument: W.i

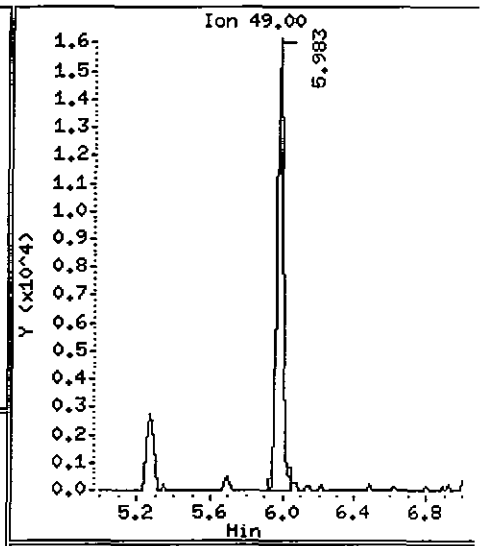
Sample Info: 427756;029ACAIA08150003;79442;0822U9

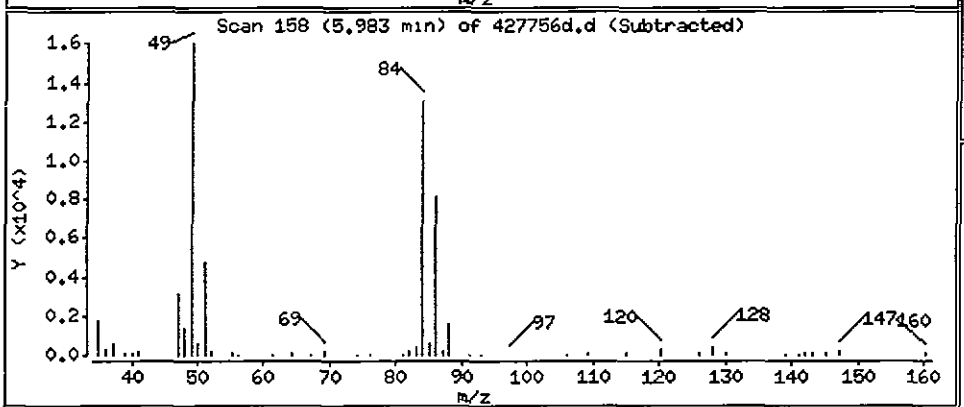
Purge Volume: 200.0 Operator: GMH

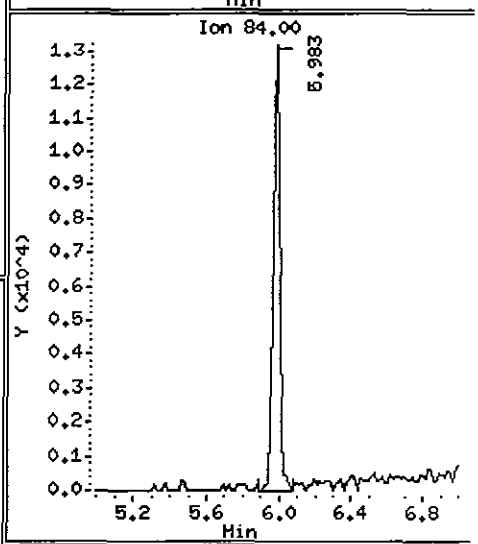
Column phase: DB-1 Column diameter: 0.35

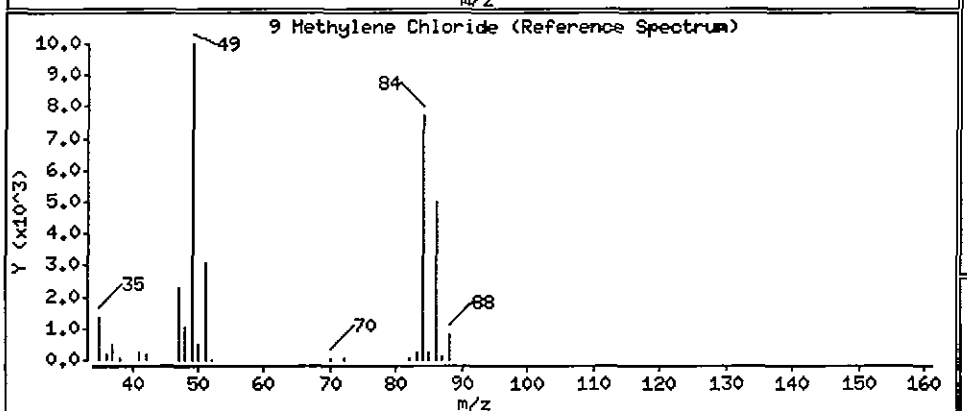
9 Methylene Chloride Concentration: 4.9 ppbv

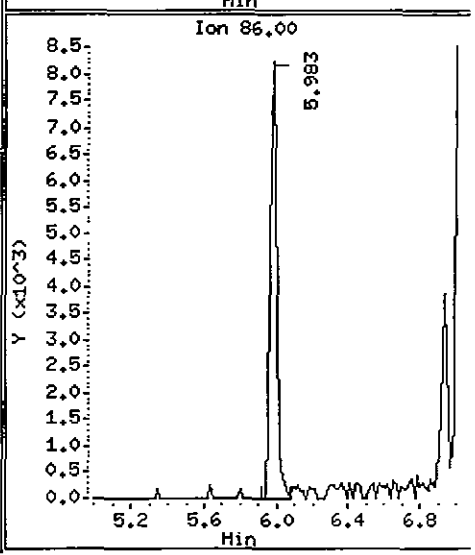


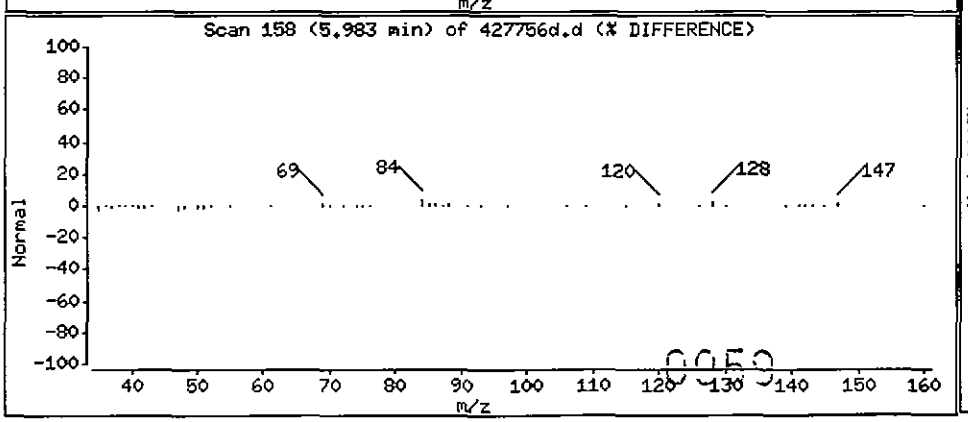












Data File: /chem/W.i/Wsvr.p/wcbnto14.b/427756d.d

Date : 22-AUG-2000 13:40

Client ID: CAIA08150003

Instrument: W.i

Sample Info: 427756;029ACAIA08150003;79442;0822U9

Purge Volume: 200.0

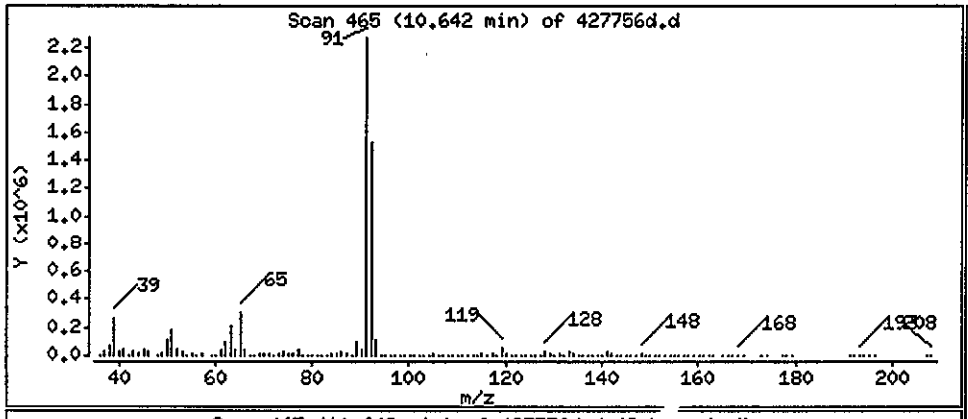
Operator: GHM

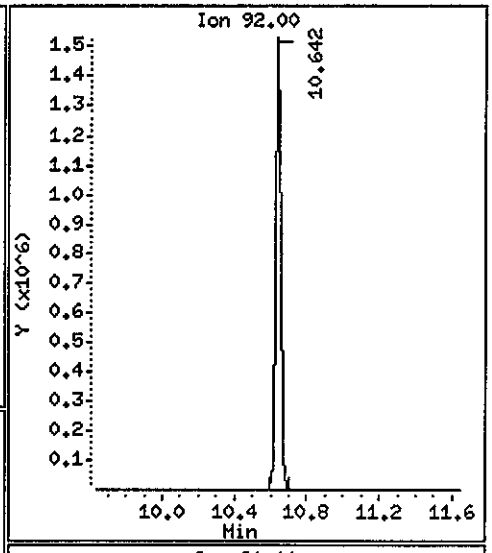
Column phase: DB-1

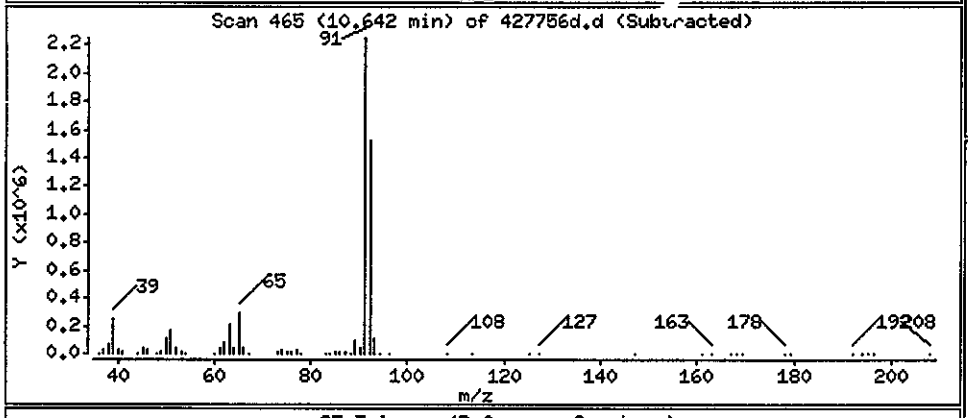
Column diameter: 0.35

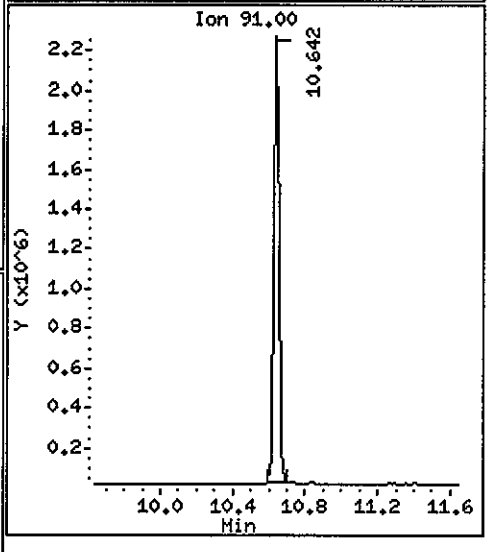
25 Toluene

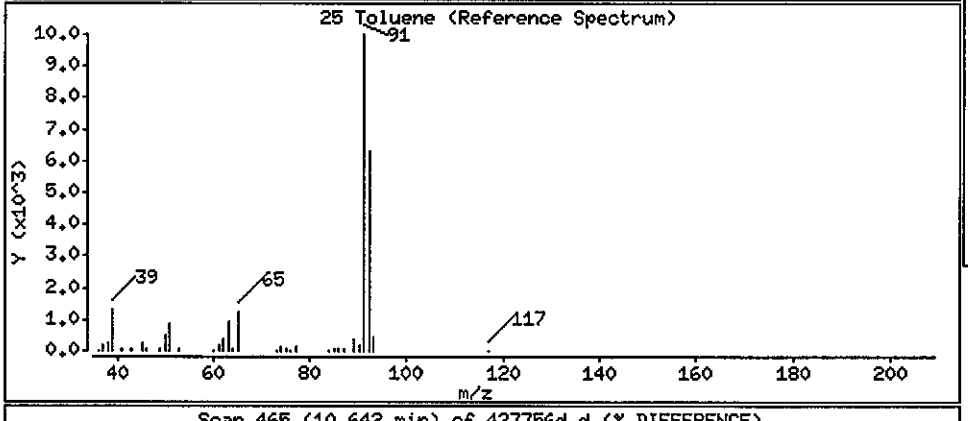
Concentration: 190 ppbv

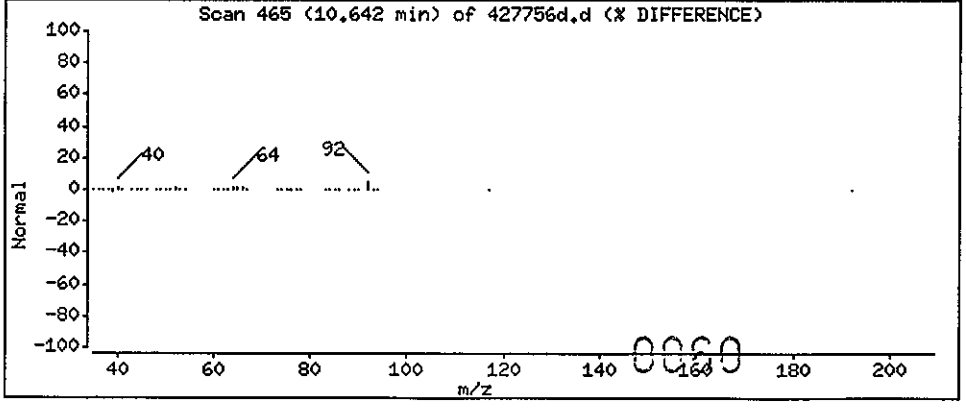












0060

Data File: /chem/W.i/Wsvr.p/wcbnto14.b/427756d.d

Date : 22-AUG-2000 13:40

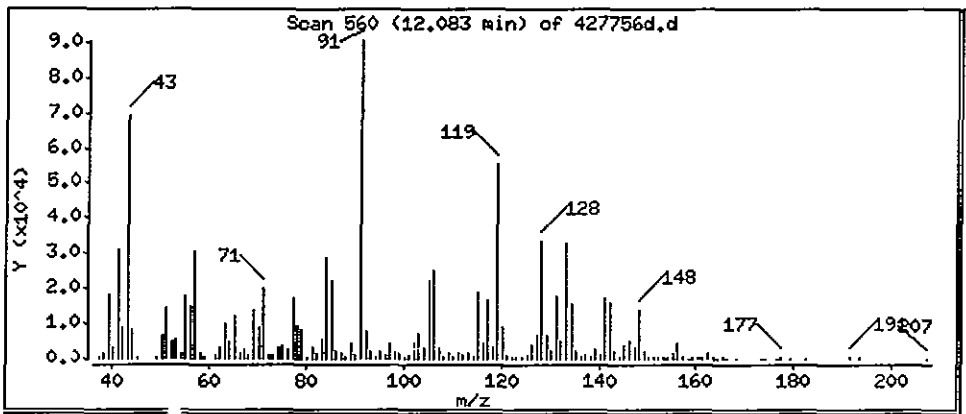
Client ID: CAIA09150003 Instrument: W.i

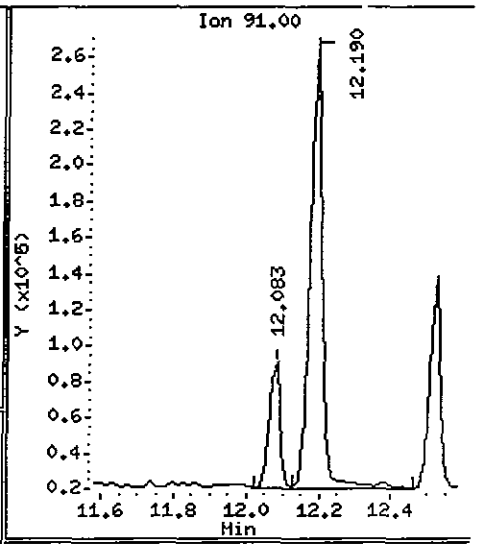
Sample Info: 427756;029ACAIA08150003;79442;0822U9

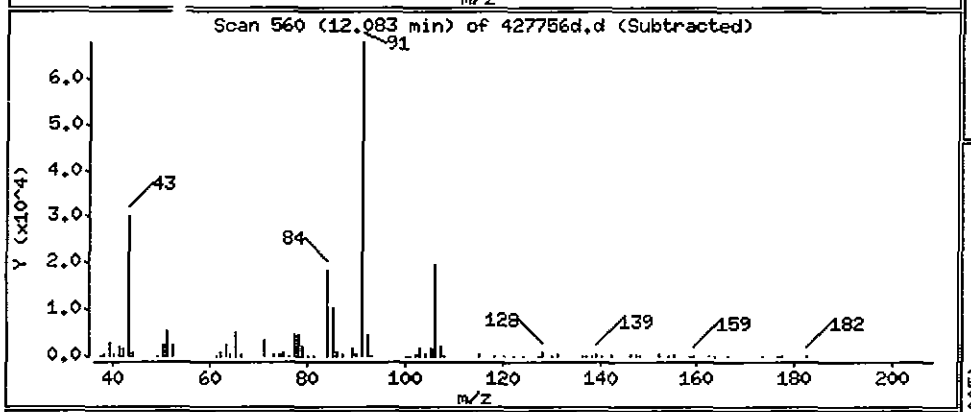
Purge Volume: 200.0 Operator: GMM

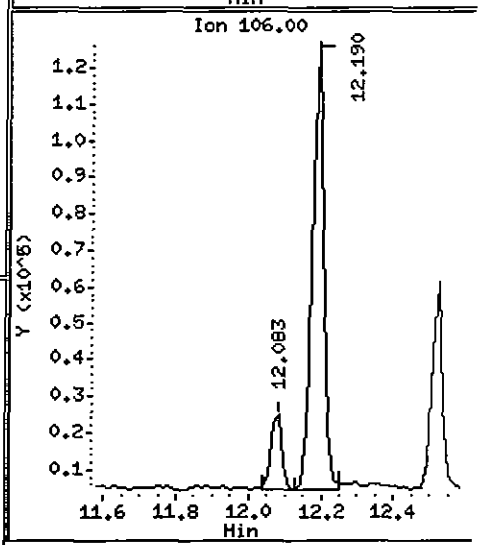
Column phase: DB-1 Column diameter: 0.35

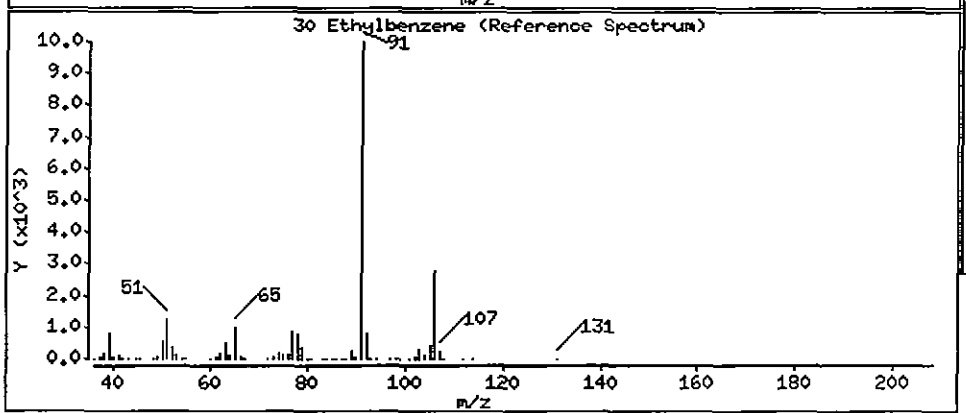
30 Ethylbenzene Concentration: 4.4 ppbv

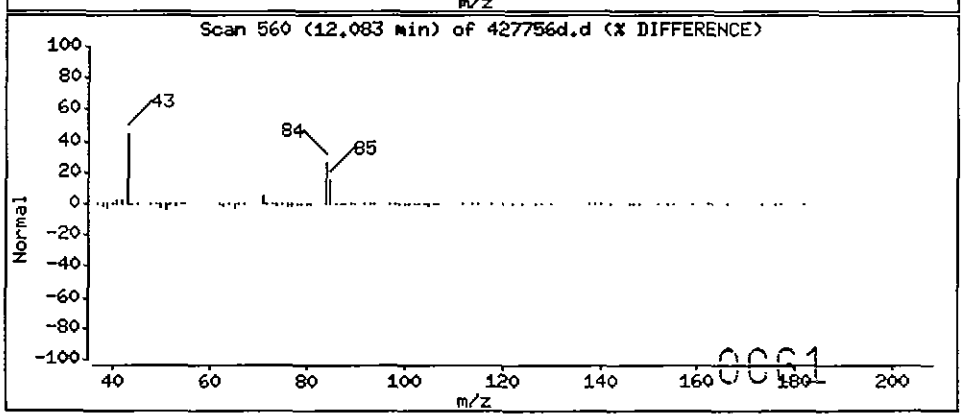












0061

Data File: /chem/W.i/Wsvr.p/wcbnto14.b/427756d.d

Date : 22-AUG-2000 13:40

Client ID: CAIA08150003

Instrument: W.i

Sample Info: 427756;029ACAIA08150003;79442;

Purge Volume: 200.0

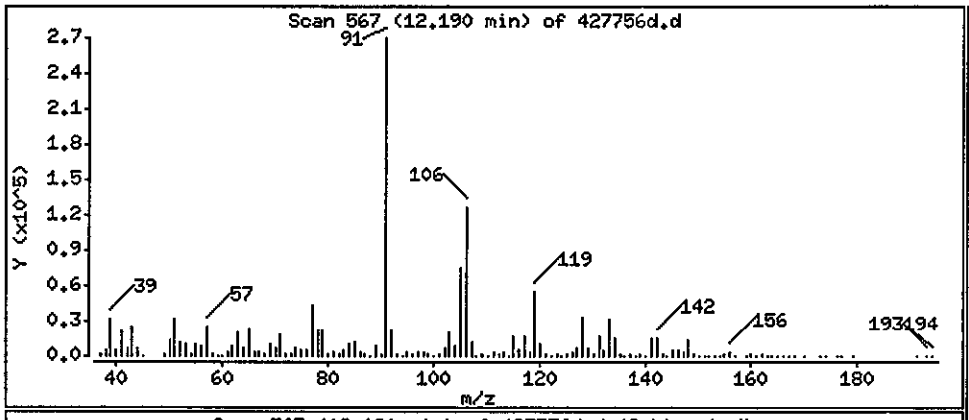
Operator: GMM

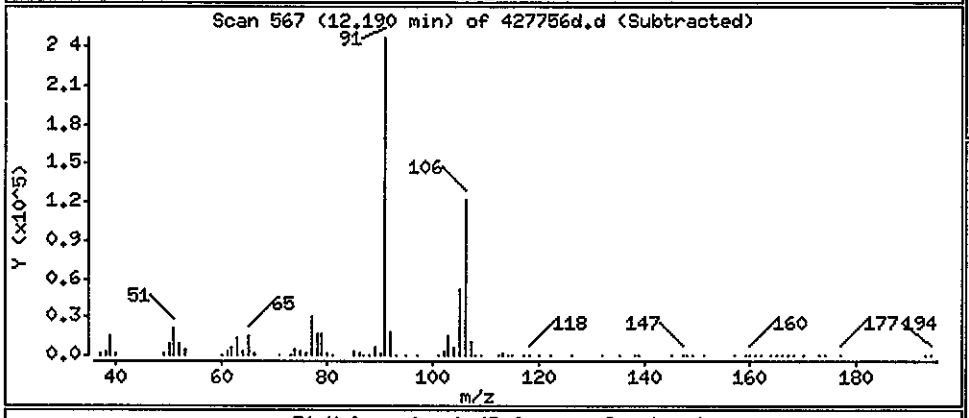
Column phase: DB-1

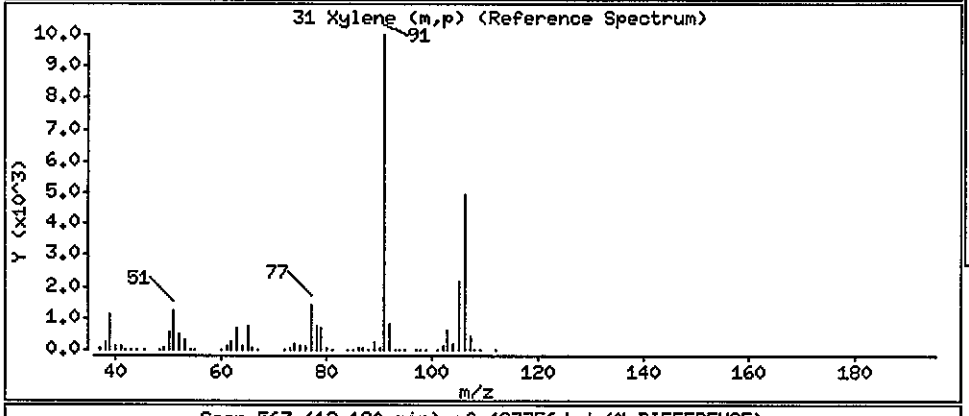
Column diameter: 0.35

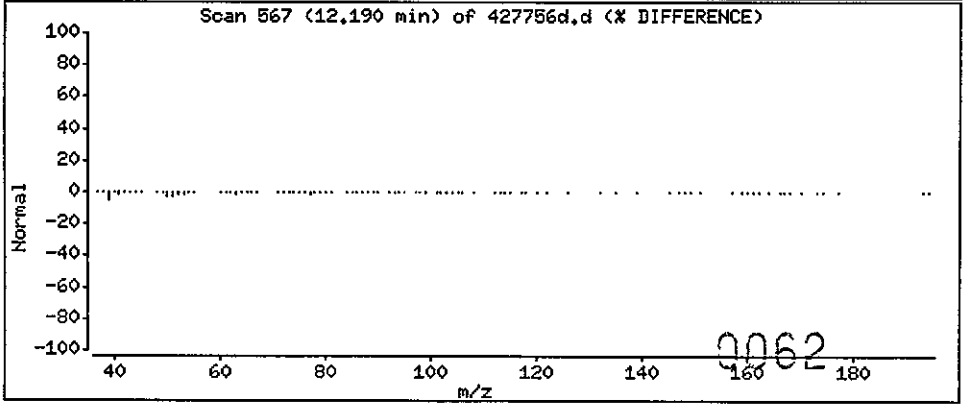
31 Xylene (m,p)

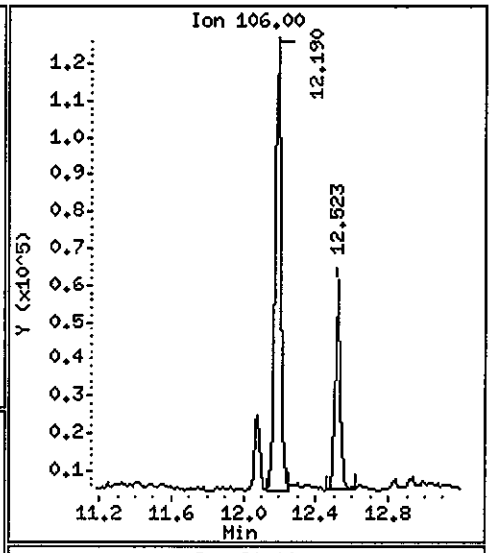
Concentration: 22 ppbv

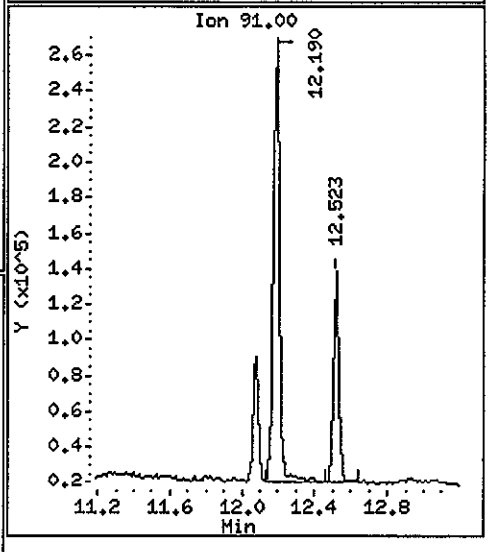












0062

Data File: /chem/W.i/Wsvr.p/wcbnto14.b/427756d.d

Date : 22-AUG-2000 13:40

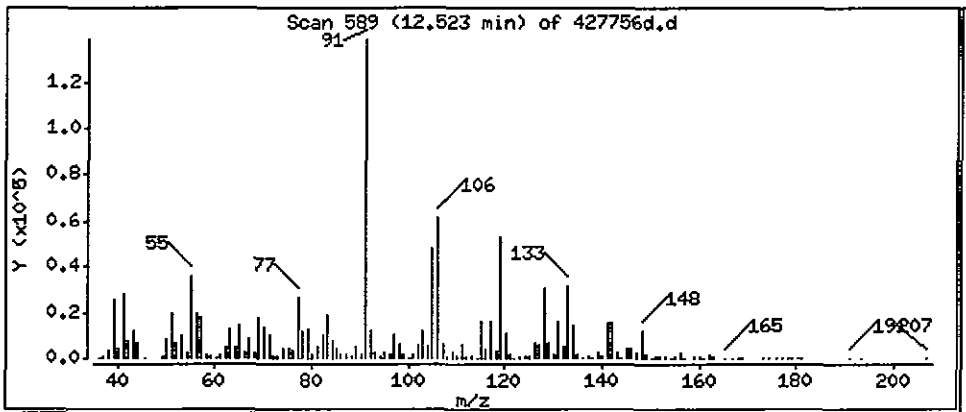
Client ID: CAIA08150003 Instrument: W.i

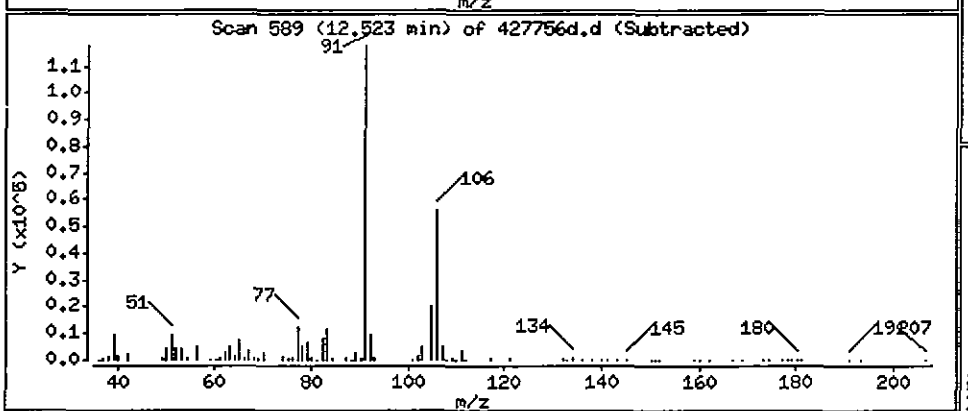
Sample Info: 427756;029ACAIA08 .0003;79442;0822119

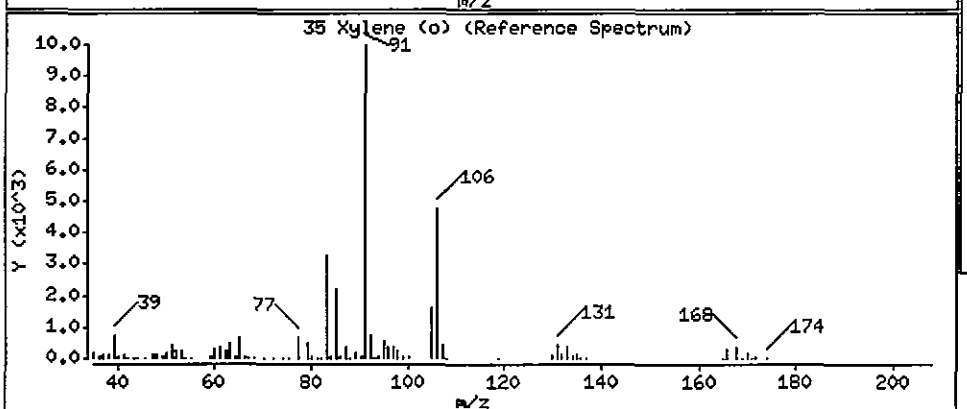
Purge Volume: 200.0 Operator: GHH

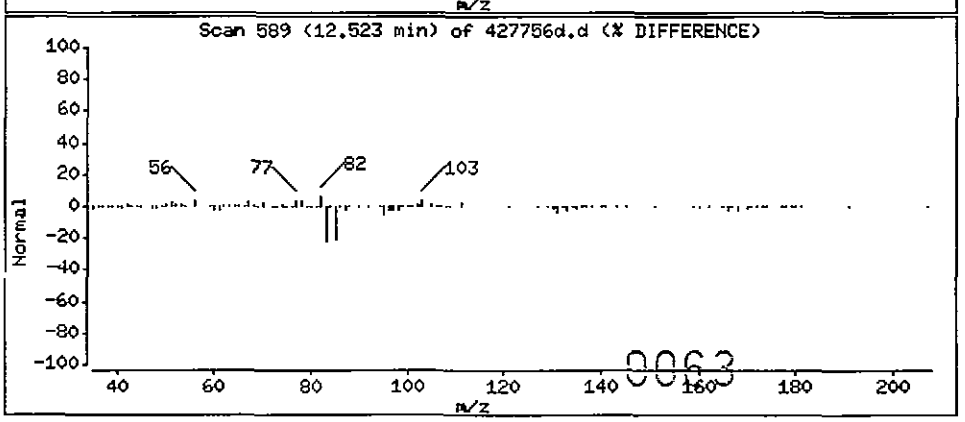
Column phase: DB-1 Column diameter: 0.35

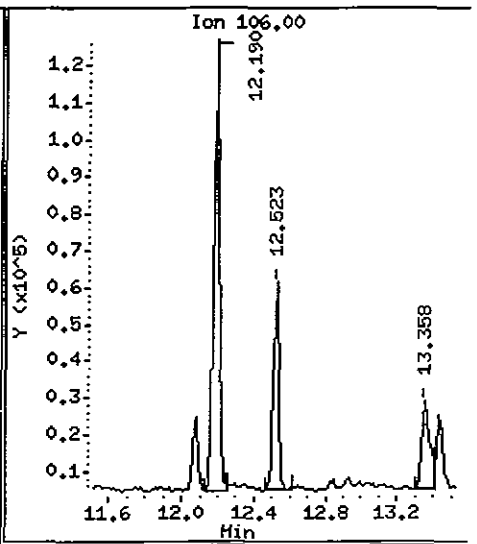
35 Xylene (o) Concentration: 9.1 ppbv

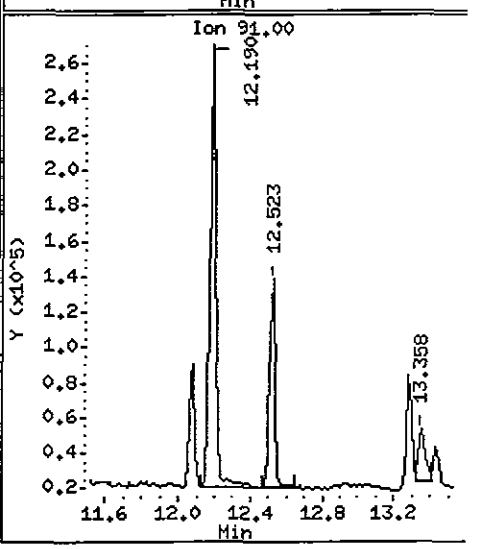












STL Burlington

AIR TOXICS QUANTITATION REPORT

Data file : /chem/W.i/Wsvr.p/wcbnto14.b/427756d.d
Lab Smp Id: 427756 Client Smp ID: CAIA08150003
Inj Date : 22-AUG-2000 13:40
Operator : GMM Inst ID: W.i
Smp Info : 427756;029ACAIA08150003;79442;0822U9
Misc Info : 25ml
Comment :
Method : /chem/W.i/Wsvr.p/wcbnto14.b/ato14.m
Meth Date : 30-Aug-2000 16:03 mim Quant Type: ISTD
Cal Date : 10-JUL-2000 13:37 Cal File: cb0005i2.d
Als bottle: 2
Dil Factor: 8.00000
Integrator: HP RTE Compound Sublist: ACCANA.sub
Target Version: 3.50
Processing Host: chemsvr4

Concentration Formula: Amt * DF * X* Uf/Vo) * CpndVariable

Name	Value	Description
DF	8.00000	Dilution Factor
X	200.00000	method volume factor
Uf	1.00000	ng unit correction factor
Vo	200.00000	Sample Volume purged (mL)

Cpnd Variable Local Compound Variable

ISTD	RT	AREA	AMOUNT
* 13 Bromochloromethane	7.606	4411248	10.000
* 19 1,4-Difluorobenzene	8.942	6580881	10.000
* 28 Chlorobenzene-d5	11.810	8317086	10.000

		CONCENTRATIONS			QUANT		
RT	AREA	ON-COL(ppbv)	FINAL(ppbv)	QUAL	LIBRARY	LIB ENTRY	CPND #
Unknown aliphatic compound				CAS #:			
5.269	7565794	17.1511398	140	0		0	13

RT	AREA	CONCENTRATIONS ON-COL(ppbv)	FINAL(ppbv)	Q AL	QUANT LIBRARY	IB E RY	CPND #
Cyclohexane, methyl-				CAS #: 108-87-2			
10.080	3284227	4.99055787	40	94	NBS75K.1	1326	19(L)
Unknown alkane				CAS #:			
12.599	3294948	3.96166131	32	0		0	28
~~p-Bromofluorobenzene~~ Reference Standard.				CAS #: 460-00-4			
12.842	9797075	11.7794544	94	91	NBS75K.1	16036	28(L)
Unknown C3-alkylbenzene				CAS #:			
13.358	4845940	5.82648659	47	0		0	28
Benzene, 1,2,4-trimethyl-				CAS #: 95-63-6			
13.768	10302308	12.3869181	99	94	NBS75K.1	64579	28(L)
Unknown C4-alkylbenzene				CAS #:			
14.420	3466982	4.16850467	33	0		0	28
Unknown alkane				CAS #:			
14.830	3629102	4.36342863	35	0		0	28
Unknown aromatic compound				CAS #:			
15.741	6968647	8.37871179	67	0		0	28(L)
Unknown aromatic compound				CAS #:			
15.938	6040520	7.26278300	58	0		0	28
Unknown aromatic compound				CAS #:			
16.924	7880286	9.47481438	76	0		0	28

Do Not Report.
mm 8/31/00

QC Flag Legend

L - Operator selected an alternate library search match.

Data File: /chem/W.i/Wsvr.p/wcbnto14.b/427756d.d

Date : 22-AUG-2000 13:40

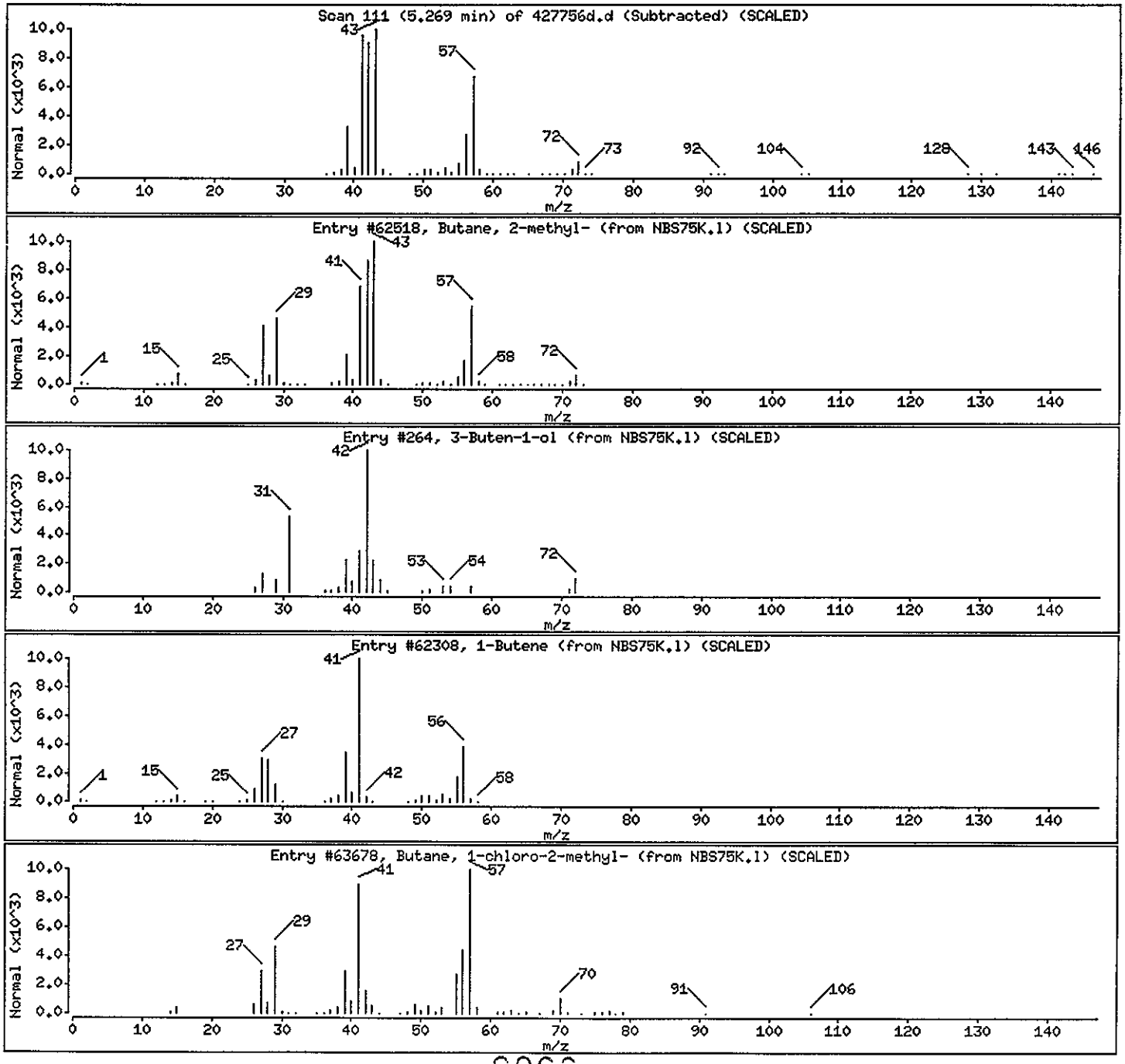
Client ID: CAIA08150003 Instrumer : I.i

Sample Info: 427756;029ACAIA08150003;79442;0822U9

Purge Volume: 200.0 Operator: GMM

Column phase: DB-1 Column diameter: 0.35

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown aliphatic compound						
Butane, 2-methyl-	78-78-4	NBS75K.l	62518	86	C5H12	72
3-Buten-1-ol	627-27-0	NBS75K.l	264	47	C4H8O	72
1-Butene	106-98-9	NBS75K.l	62308	14	C4H8	56
Butane, 1-chloro-2-methyl-	616-13-7	NBS75K.l	63678	10	C5H11Cl	106



Data File: /chem/W.i/Wsvr.p/wcbnto14.b/427756d.d

Date : 22-AUG-2000 13:40

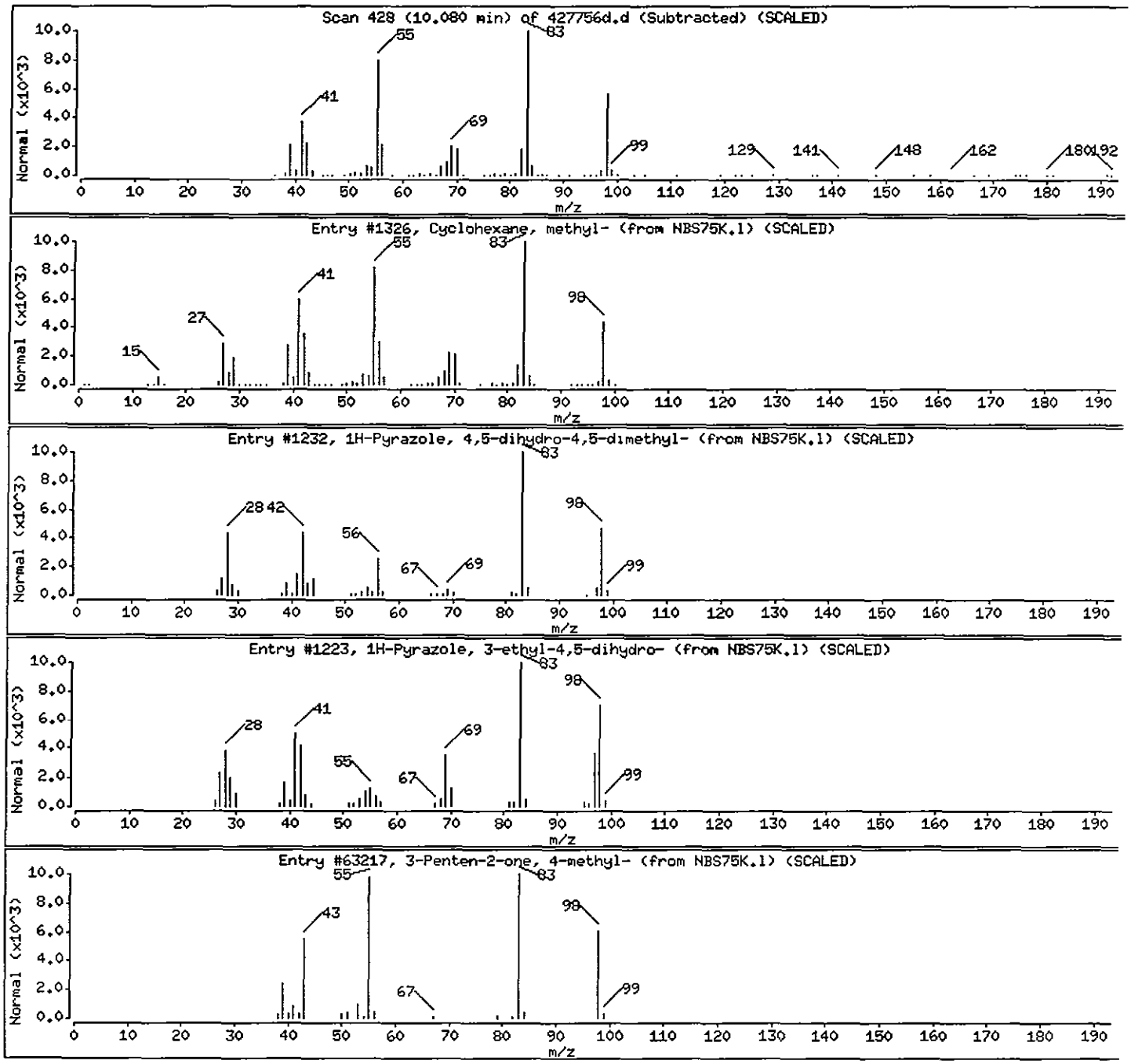
Client ID: CAIA08150003 Instrument: W.i

Sample Info: 427756;029ACAIA08150003;79442;0822U9

Purge Volume: 200.0 Operator: GMM

Column phase: DB-1 Column diameter: 0.35

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Cyclohexane, methyl-	108-87-2	NBS75K.l	1326	94	C7H14	98
1H-Pyrazole, 4,5-dihydro-4,5-dimethyl-	28019-94-5	NBS75K.l	1232	64	C5H10N2	98
1H-Pyrazole, 3-ethyl-4,5-dihydro-	5920-29-6	NBS75K.l	1223	59	C5H10N2	98
3-Penten-2-one, 4-methyl-	141-79-7	NBS75K.l	63217	53	C6H10O	98



Data File: /chem/W.i/Wsvr.p/wcbnto14.b/427756d.d

Date : 22-AUG-2000 13:40

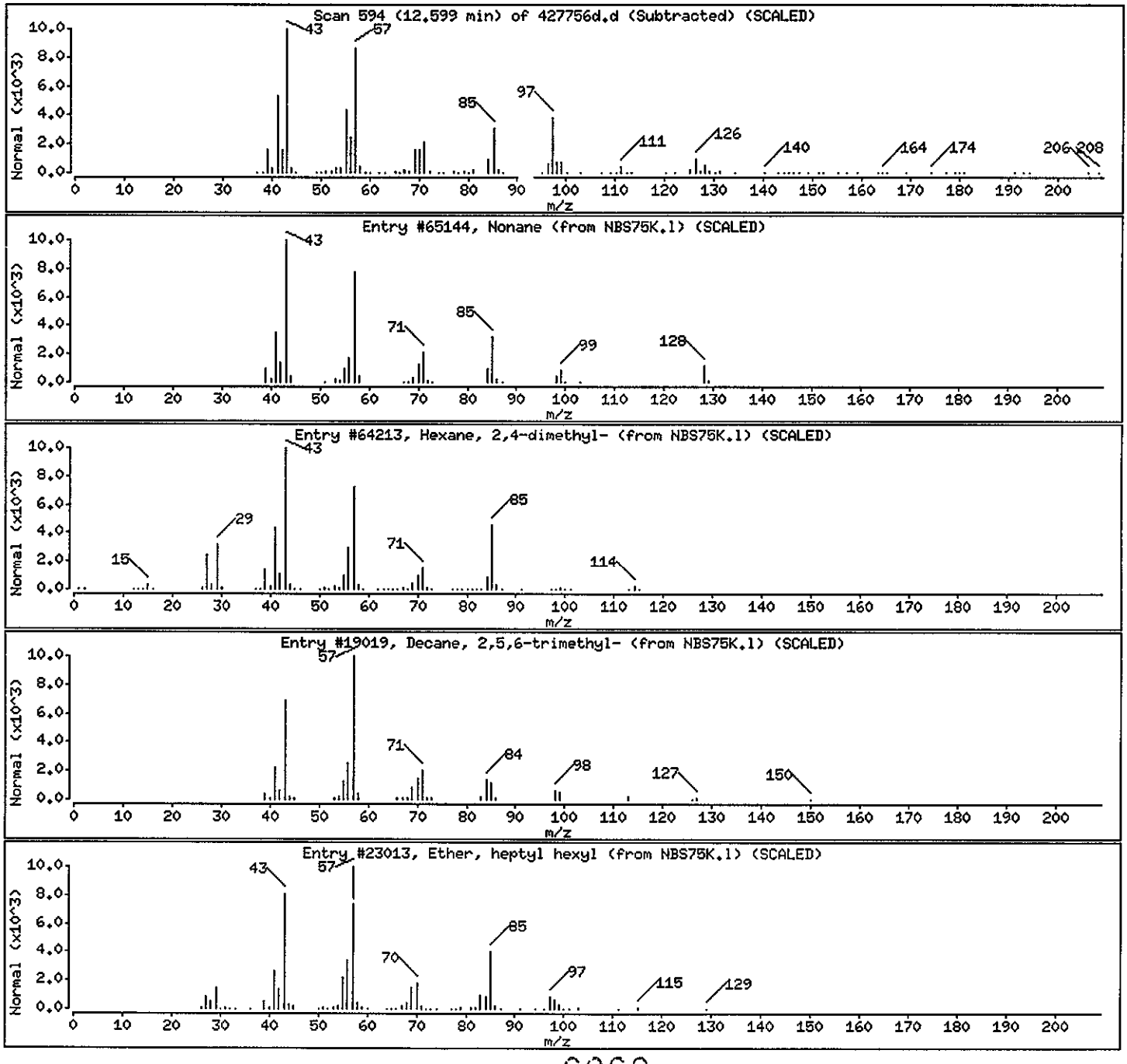
Client ID: CAIA08150003 Instrument: W.i

Sample Info: 427756;029ACAIA08150003;79442;0822U9

Purge Volume: 200.0 Operator: GHM

Column phase: DB-1 Column diameter: 0.35

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown alkane						
Nonane	111-84-2	NBS75K.l	65144	70	C9H20	128
Hexane, 2,4-dimethyl-	589-43-5	NBS75K.l	64213	43	C8H18	114
Decane, 2,5,6-trimethyl-	62108-23-0	NBS75K.l	19019	38	C13H28	184
Ether, heptyl hexyl	7289-40-9	NBS75K.l	23013	38	C13H28O	200



Data File: /chem/W.i/Wsvr.p/wcbnto14.b/427756d.d

Date : 22-AUG-2000 13:40

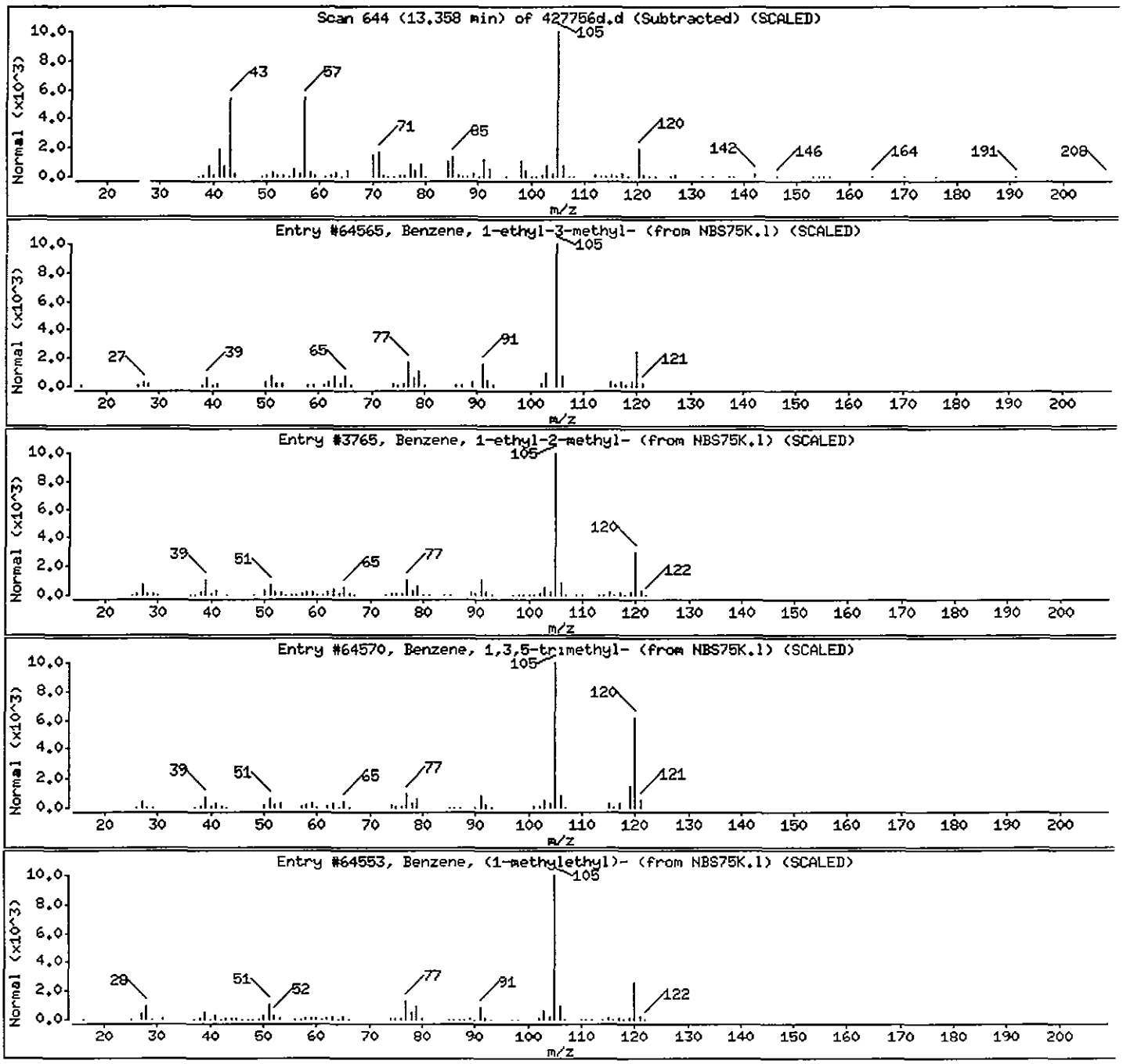
Client ID: CAIA08150003 Instrument: W.i

Sample Info: 427756;029ACAIA08150003;79442;0822U9

Purge Volume: 200.0 Operator: GMM

Column phase: DB-1 Column diameter: 0.35

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown C3-alkylbenzene						
Benzene, 1-ethyl-3-methyl-	620-14-4	NBS75K.l	64565	64	C9H12	120
Benzene, 1-ethyl-2-methyl-	611-14-3	NBS75K.l	3765	64	C9H12	120
Benzene, 1,3,5-trimethyl-	108-67-8	NBS75K.l	64570	60	C9H12	120
Benzene, (1-methylethyl)-	98-82-8	NBS75K.l	64553	53	C9H12	120



Data File: /chem/W.i/Wsvr.p/wcbnto14.b/427756d.d

Date : 22-AUG-2000 13:40

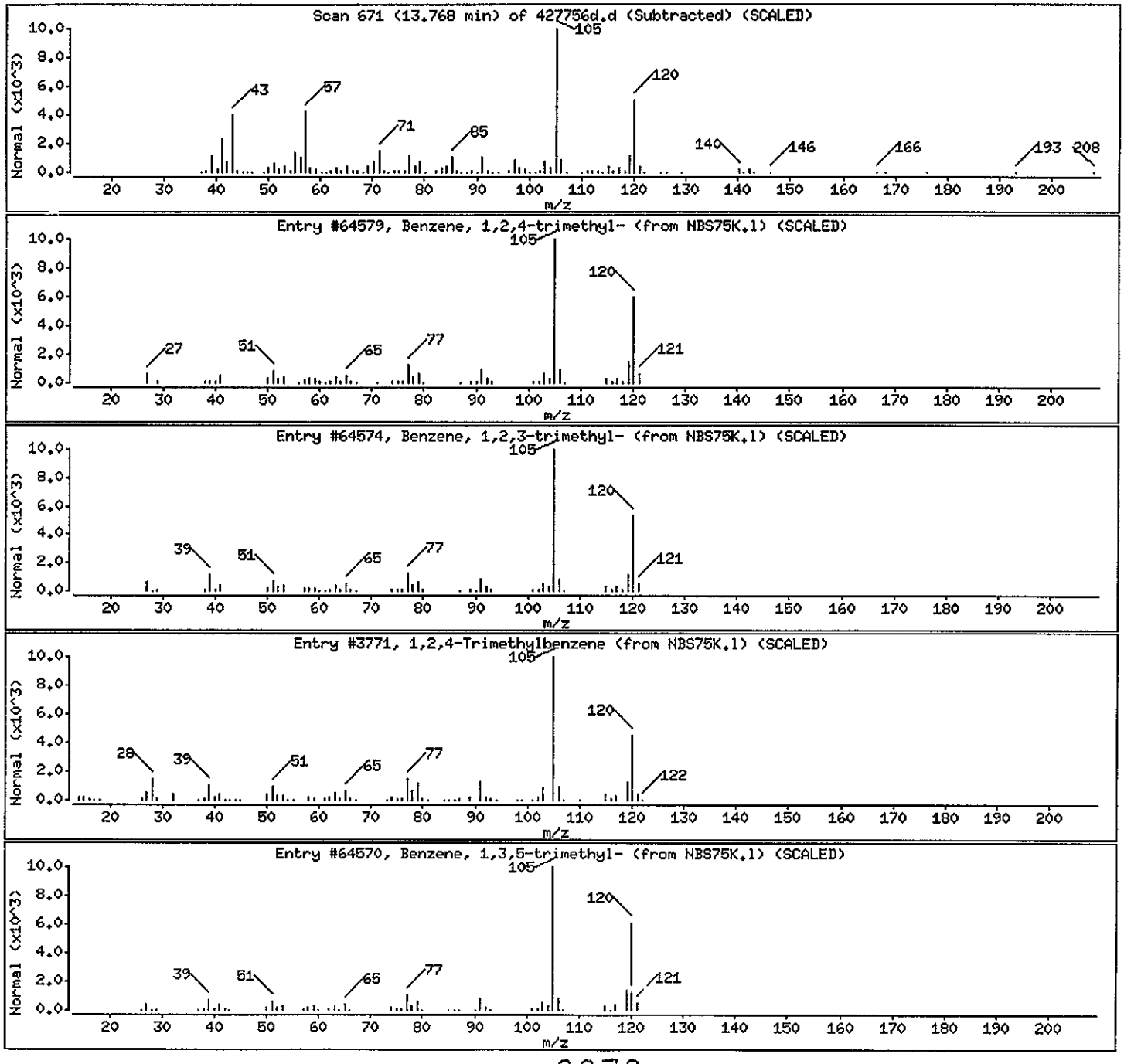
Client ID: CAIA08150003 Instrument: W.i

Sample Info: 427756;029ACAIA08150003;79442;080

Purge Volume: 200.0 Operator: GHM

Column phase: DB-1 Column diameter: 0.35

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Benzene, 1,2,4-trimethyl-	95-63-6	NBS75K.l	64579	94	C9H12	120
Benzene, 1,2,3-trimethyl-	526-73-8	NBS75K.l	64574	94	C9H12	120
1,2,4-Trimethylbenzene	95-36-3	NBS75K.l	3771	93	C9H12	120
Benzene, 1,3,5-trimethyl-	108-67-8	NBS75K.l	64570	93	C9H12	120



Data File: /chem/W.i/Wsvr.p/ucbnto14.b/427756d.d

Date : 22-AUG-2000 13:40

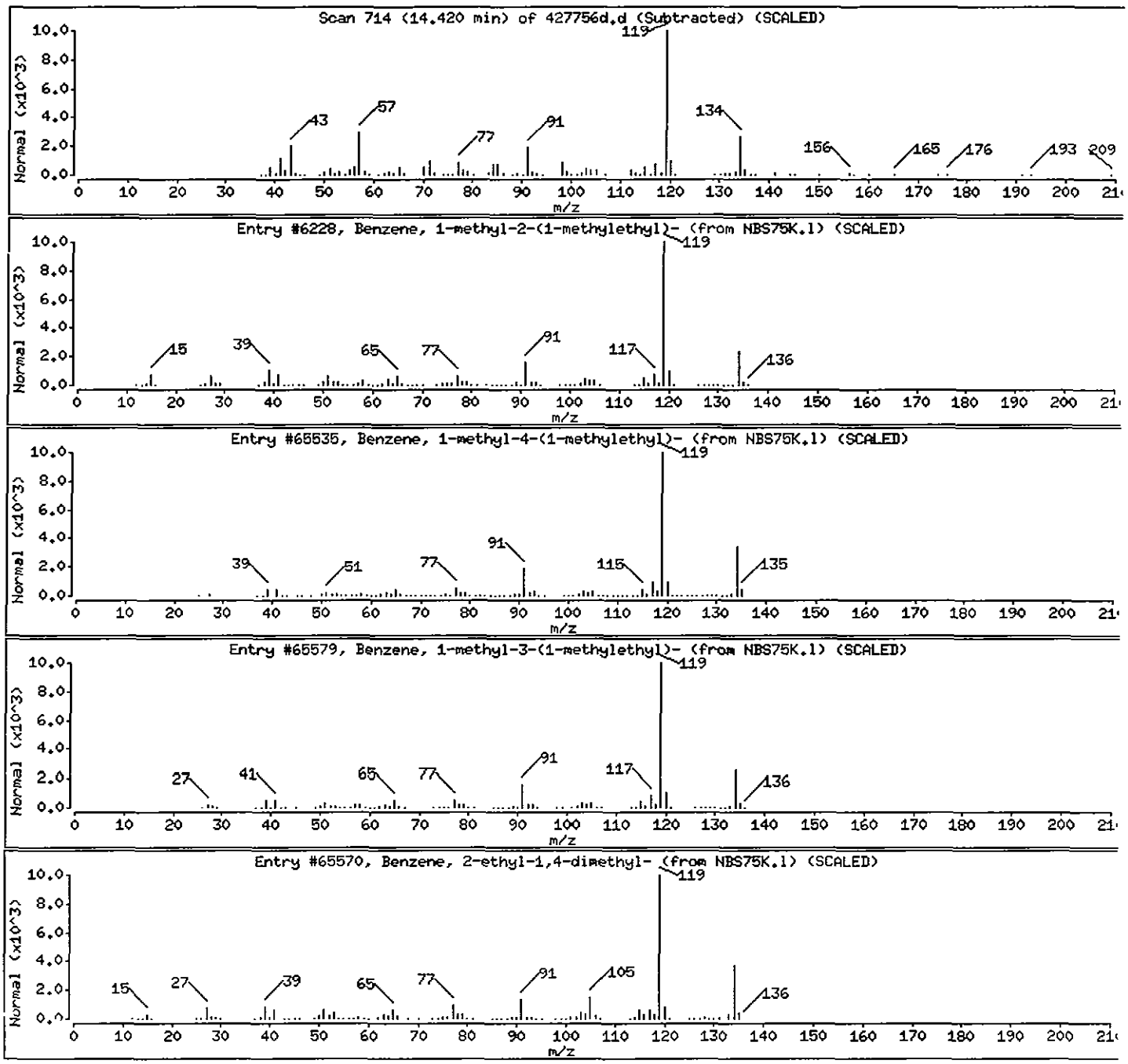
Client ID: CAIA08150003 Instrument: W.i

Sample Info: 427756;029ACAIA081 ;003;79442;0822U9

Purge Volume: 200.0 Operator: GHH

Column phase: DB-1 Column diameter: 0.35

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown C4-alkylbenzene						
Benzene, 1-methyl-2-(1-methylethyl)-	527-84-4	NBS75K.l	6228	93	C10H14	134
Benzene, 1-methyl-4-(1-methylethyl)-	99-87-6	NBS75K.l	65535	87	C10H14	134
Benzene, 1-methyl-3-(1-methylethyl)-	535-77-3	NBS75K.l	65579	87	C10H14	134
Benzene, 2-ethyl-1,4-dimethyl-	1758-88-9	NBS75K.l	65570	87	C10H14	134



Data File: /chem/W.i/Wsvr.p/wcbnto14.b/427756d.d

Date : 22-AUG-2000 13:40

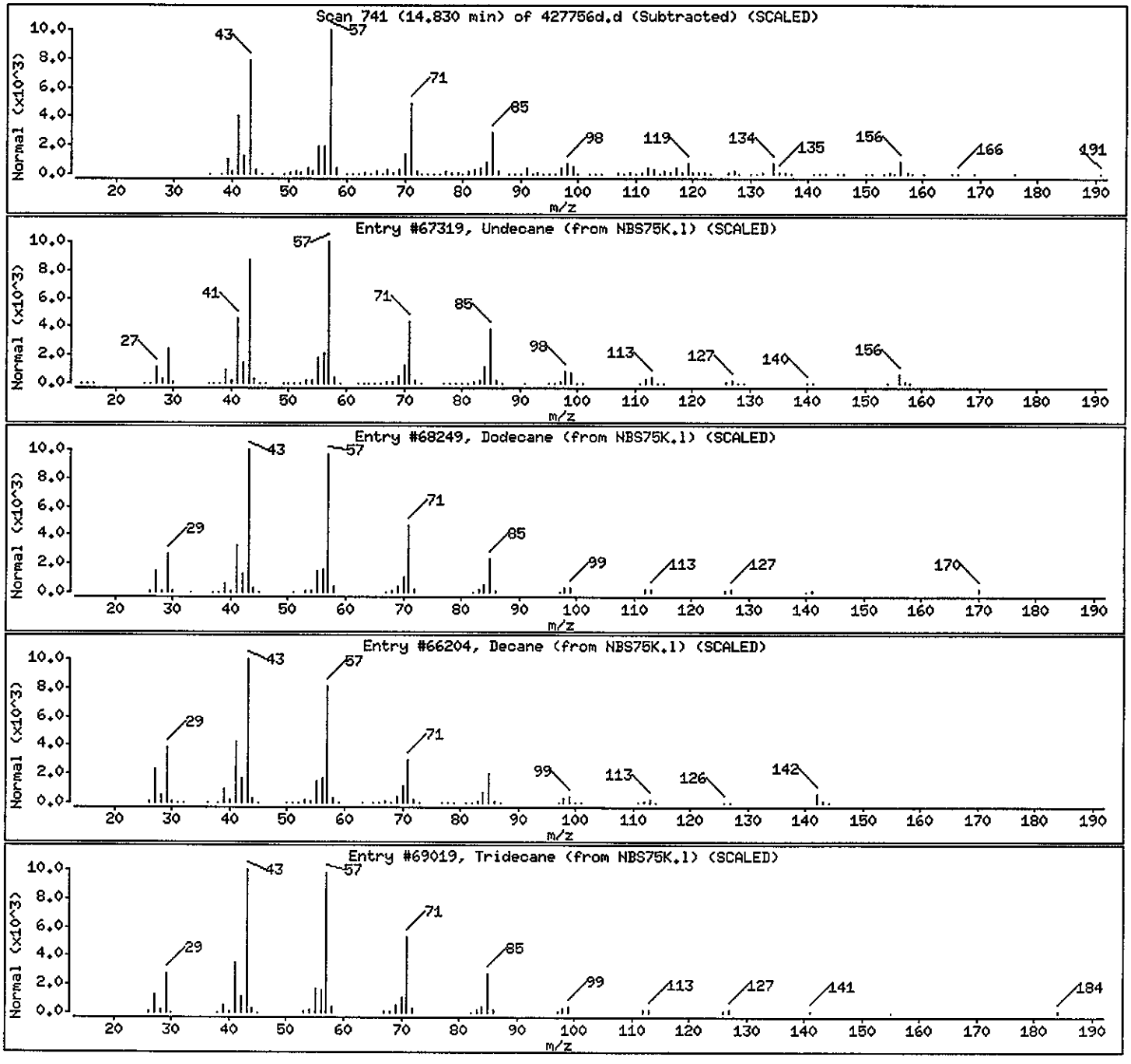
Client ID: CAIA08150003 Instrument: W.i

Sample Info: 427 6;02' CAIA08150003;79442;0822U9

Purge Volume: 200.0 Operator: GMM

Column phase: DB-1 Column diameter: 0.35

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown alkane						
Undecane	1120-21-4	NBS75K.l	67319	93	C11H24	156
Dodecane	112-40-3	NBS75K.l	68249	72	C12H26	170
Decane	124-18-5	NBS75K.l	66204	72	C10H22	142
Tridecane	629-50-5	NBS75K.l	69019	59	C13H28	184



Data File: /chem/W.i/Wsvr.p/wcbnto14.b/427756d.d

Date : 22-AUG-2000 13:40

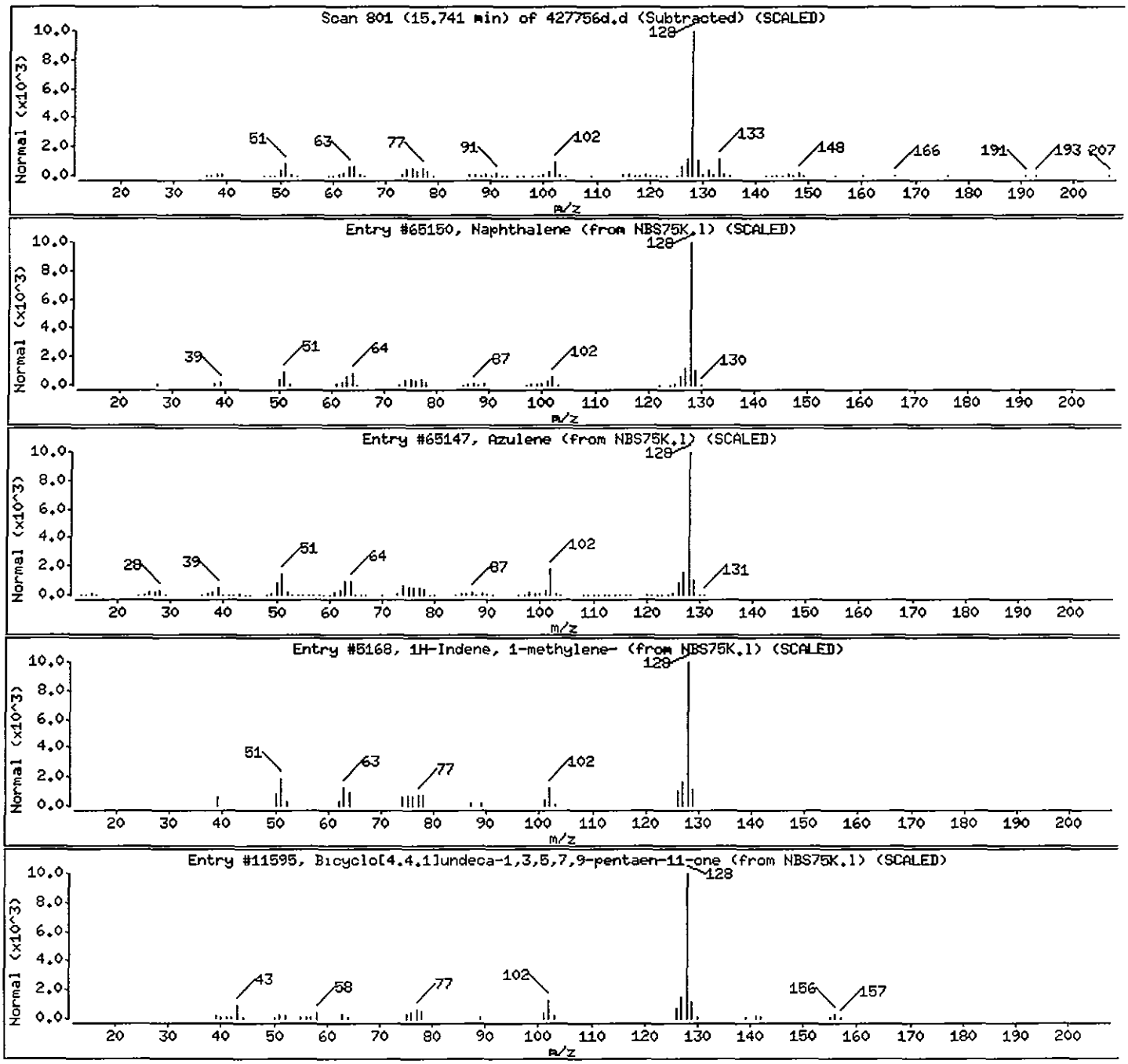
Client ID: CAIA08150003 Instrument: W.i

Sample Info: 427756;029ACAIA08150003;79442;082_J9

Purge Volume: 200.0 Operator: GMH

Column phase: DB-1 Column diameter: 0.35

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown aromatic compound						
Naphthalene	91-20-3	NBS75K.l	65150	94	C10H8	128
Azulene	275-51-4	NBS75K.l	65147	87	C10H8	128
1H-Indene, 1-methylene-	2471-84-3	NBS75K.l	5168	64	C10H8	128
Bicyclo[4.4.1]undeca-1,3,5,7,9-pentaen-1	36628-80-5	NBS75K.l	11595	56	C11H8O	156



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Date : 22-AUG-2000 13:40

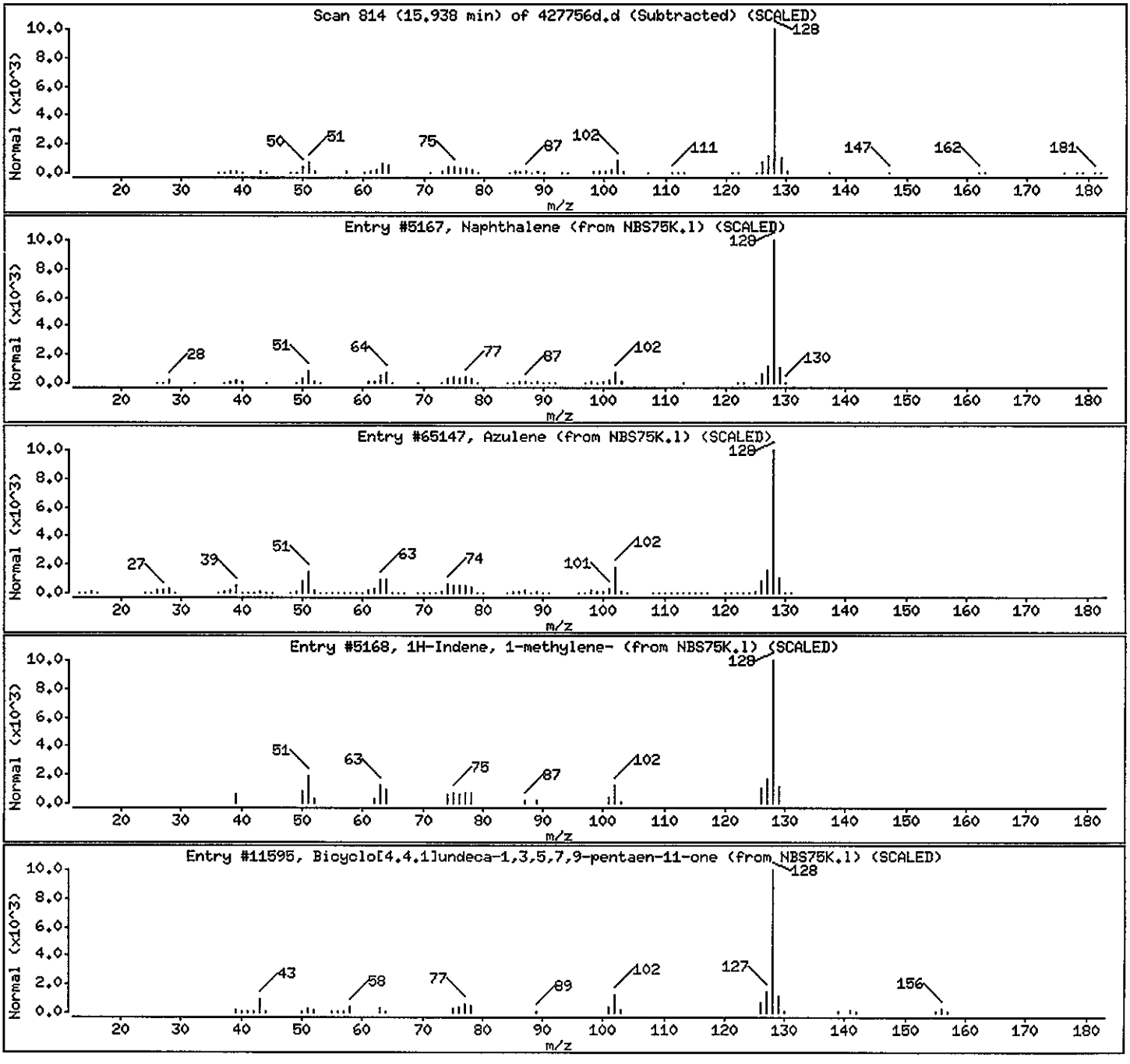
Client ID: CAIA08150003 Instrumen ".i

Sample nfo: 427756;029ACAIA08150003;79442;0822U9

Purge Volume: 200.0 Operator: GMM

Column phase: DB-1 Column diameter: 0.35

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown aromatic compound						
Naphthalene	91-20-3	NBS75K.l	5167	95	C10H8	128
Azulene	275-51-4	NBS75K.l	65147	94	C10H8	128
1H-Indene, 1-methylene-	2471-84-3	NBS75K.l	5168	83	C10H8	128
Bicyclo[4.4.1]undeca-1,3,5,7,9-pentaen-1	36628-80-5	NBS75K.l	11595	64	C11H8O	156



Data File: /chem/W.i/Wsvr.p/wcbnto14.b/427756d.d

Date : 22-AUG-2000 13:40

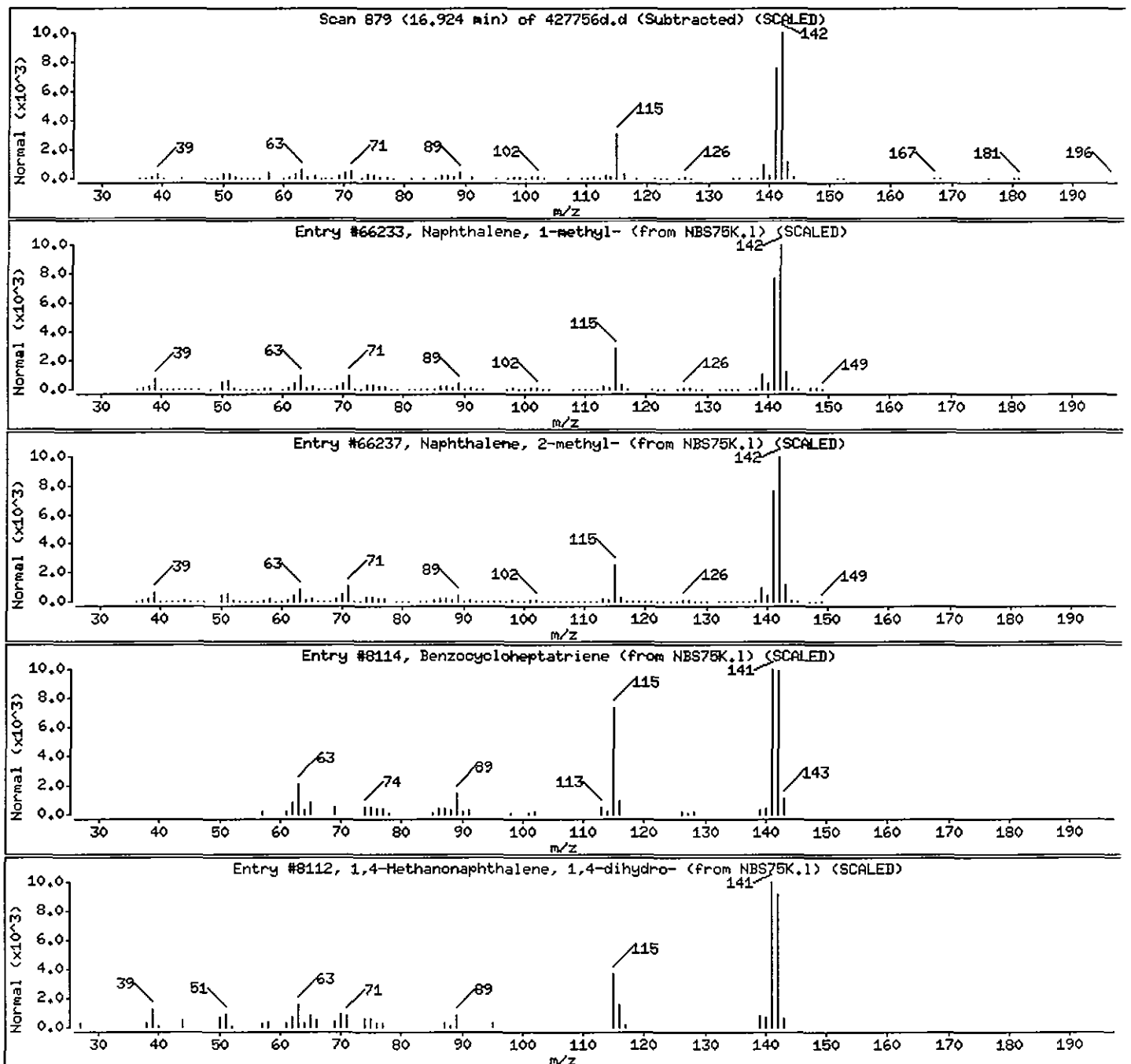
Cli nt ID: CAIA08150003 Instrument: W.i

Sample Info: 427756;029ACAIA08150003;79442;0822U9

Purge Volume: 200.0 Operator: GMH

Column phase: DB-1 Column diameter: 0.35

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown aromatic compound						
Naphthalene, 1-methyl-	90-12-0	NBS75K.l	66233	94	C11H10	142
Naphthalene, 2-methyl-	91-57-6	NBS75K.l	66237	94	C11H10	142
Benzocycloheptatriene	264-09-5	NBS75K.l	8114	87	C11H10	142
1,4-Methanonaphthalene, 1,4-dihydro-	4453-90-1	NBS75K.l	8112	86	C11H10	142



SEVERN TRENT SERVICES

Severn Trent Laboratories, Inc.

METHOD TO-14A
VOLATILE ORGANIC ANALYSIS

STANDARDS

6A
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 79442

Instrument ID: W Calibration Date(s): 07/10/00 07/10/00

Heated Purge: (Y/N) N Calibration Time(s): 1021 1337

GC Column: DB-1 ID: 0.35 (mm)

LAB FILE ID: RRF0.5=CB0005I2 RRF5 =CB005
RRF10 =CB010 RRF20 =CB020 RRF40 =CB040

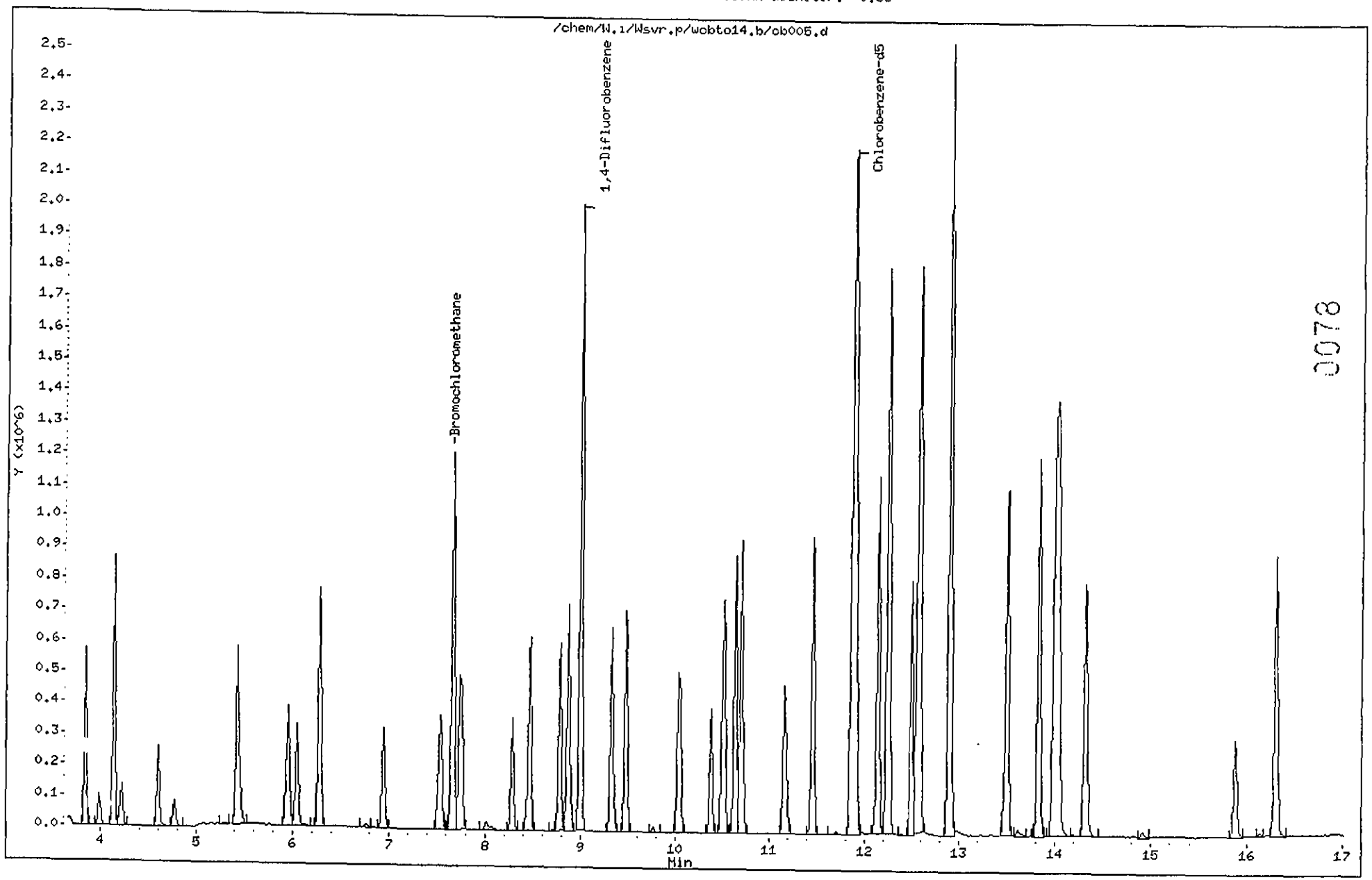
COMPOUND	RRF0.5	RRF5	RRF10	RRF20	RRF40	$\overline{RRF}$	% RSD
Chloromethane *	0.968	0.672	0.708	0.648	0.627	0.725	19.2*
Vinyl Chloride	0.928	0.775	0.792	0.716	0.704	0.783	11.4
Bromomethane	1.272	1.006	1.018	0.896	0.861	1.011	16.0
Chloroethane	0.540	0.458	0.450	0.408	0.435	0.458	10.8
Trichlorofluoromethane	3.108	2.834	2.601	2.153	2.244	2.588	15.4
Methylene Chloride	1.676	1.157	1.130	0.952	0.926	1.168	25.8
1,1-Dichloroethane *	2.306	1.944	1.891	1.731	1.542	1.883	15.1*
Chloroform	2.896	2.499	2.405	2.184	2.011	2.399	14.0
1,1,1-Trichloroethane	2.670	2.427	2.324	2.119	1.930	2.294	12.4
Carbon Tetrachloride	0.543	0.556	0.512	0.466	0.409	0.497	12.1
Benzene	0.801	0.723	0.686	0.638	0.575	0.685	12.5
1,2-Dichloroethane	1.943	1.791	1.690	1.552	1.436	1.682	11.8
Trichloroethene	0.350	0.347	0.320	0.298	0.259	0.315	12.0
1,2-Dichloropropane	0.294	0.287	0.267	0.245	0.216	0.262	12.2
cis-1,3-Dichloropropene	0.418	0.434	0.425	0.409	0.366	0.410	6.4
Toluene	0.479	0.578	0.552	0.489	0.408	0.501	13.3
trans-1,3-Dichloropropene	0.318	0.329	0.332	0.322	0.298	0.320	4.2
1,1,2-Trichloroethane	0.303	0.303	0.282	0.255	0.224	0.273	12.4
Tetrachloroethene	0.348	0.439	0.412	0.369	0.304	0.374	14.3
Chlorobenzene *	0.624	0.767	0.717	0.622	0.508	0.648	15.4*
Ethylbenzene	0.952	1.346	1.290	1.111	0.899	1.120	17.7
Xylene (total)	1.004	1.431	1.378	1.236	1.055	1.221	15.5
Styrene	0.330	0.648	0.638	0.582	0.509	0.541	24.1
Xylene (m,p)	0.344	0.481	0.460	0.413	0.353	0.410	15.0
Xylene (o)	0.317	0.470	0.458	0.410	0.349	0.401	16.6
1,1,2,2-Tetrachloroethane	0.510	0.870	0.803	0.688	0.558	0.686	22.5
1,3-Dichlorobenzene	0.396	0.768	0.757	0.655	0.530	0.621	25.4
1,4-Dichlorobenzene	0.481	0.748	0.726	0.660	0.581	0.639	17.2
1,2-Dichlorobenzene	0.281	0.655	0.648	0.582	0.490	0.531	29.2

* Compounds with required minimum RRF and maximim %RSD values.
All other compounds must meet a minimim RRF of 0.010.

Data File: /chem/W.1/Wsvr.p/wobto14.b/ob005.d
Date : 10-JUL-2000 10:21
Client ID: ASTD005
Sample Info: ASTD005
Purge Volume: 200.0
Column phase: DB-1

Instrument: W.1

Operator: GMM
Column diameter: 0.35



STL Burlington

AIR TOXICS QUANTITATION REPORT

Data file : /chem/W.i/Wsvr.p/wcbto14.b/cb005.d
Lab Smp Id: ASTD005 Client Smp ID: ASTD005
Inj Date : 10-JUL-2000 10:21
Operator : GMM Inst ID: W.i
Smp Info : ASTD005
Misc Info :
Comment :
Method : /chem/W.i/Wsvr.p/wcbto14.b/ato14.m
Meth Date : 24-Jul-2000 14:59 cpc Quant Type: ISTD
Cal Date : 10-JUL-2000 10:21 Cal File: cb005.d
Als bottle: 2 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50
Processing Host: chemsvr4

Concentration Formula: Amt * DF * X* Uf/Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
X	200.00000	method volume factor
Uf	1.00000	ng unit correction factor
Vo	200.00000	Sample Volume purged (mL)

Cpnd Variable Local Compound Variable

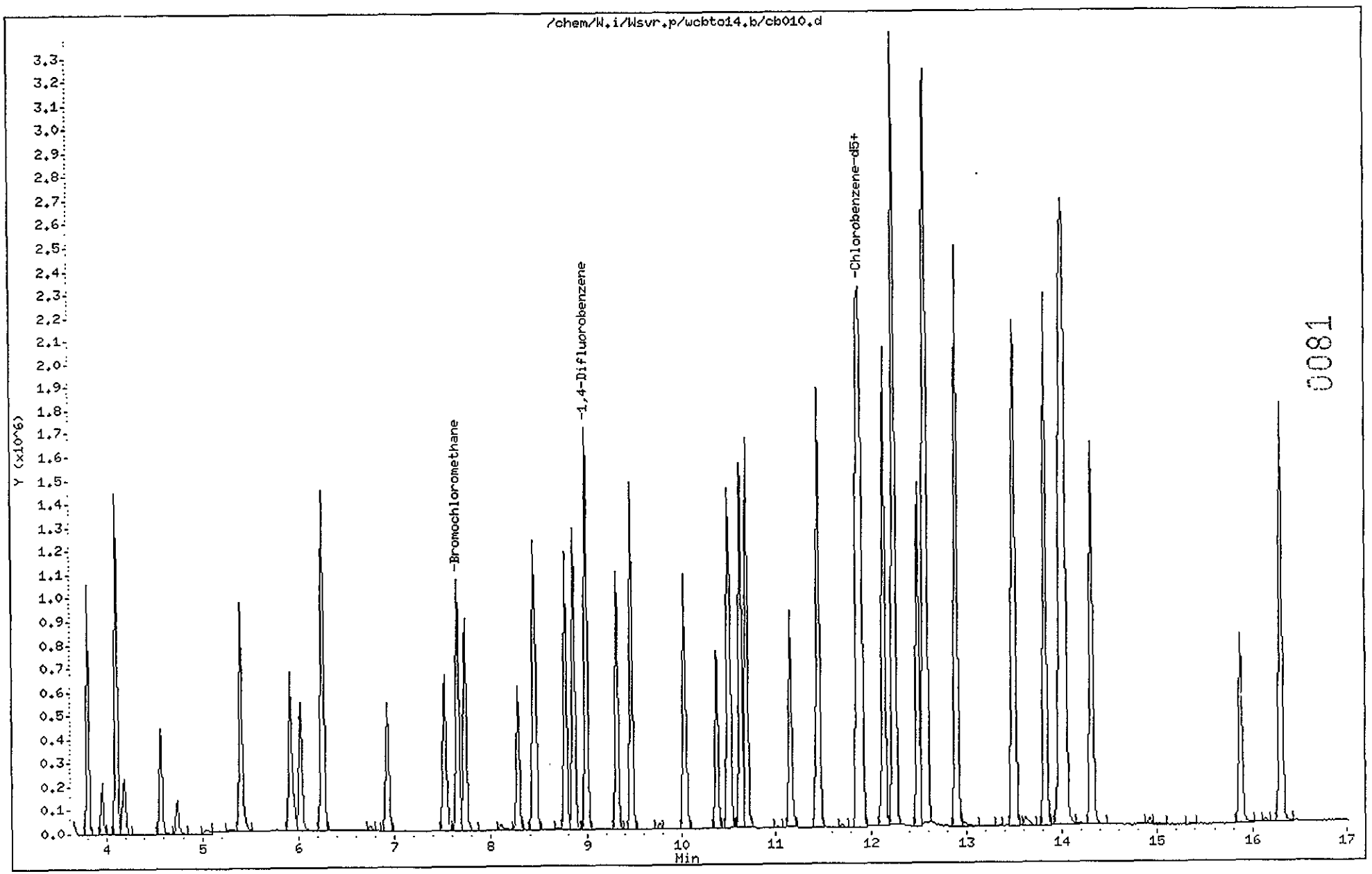
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	AMOUNTS ON-COL (ppbv)
1	Dichlorodifluoromethane	85	3.839	3.798	(0.501)	502814	5.00000	5.3
2	Chloromethane	50	3.983	3.957	(0.520)	117983	5.00000	4.6
3	Dichlorotetrafluoroethane	85	4.142	4.101	(0.540)	500282	5.00000	5.2
4	Vinyl Chloride	62	4.214	4.188	(0.550)	135982	5.00000	4.9
5	Bromomethane	94	4.603	4.563	(0.600)	176579	5.00000	5.0
6	Chloroethane	64	4.776	4.750	(0.623)	80347	5.00000	5.0
7	Trichlorofluoromethane	101	5.436	5.406	(0.709)	497381	5.00000	5.5
8	1,1-Dichloroethene	96	5.951	5.922	(0.776)	158357	5.00000	5.0
9	Methylene Chloride	49	6.043	6.028	(0.788)	203008	5.00000	5.0
10	Freon TF	101	6.270	6.256	(0.818)	386050	5.00000	5.1
11	1,1-Dichloroethane	63	6.938	6.923	(0.905)	341141	5.00000	5.2
12	cis-1,2-Dichloroethene	61	7.530	7.530	(0.982)	257994	5.00000	5.2
* 13	Bromochloromethane	128	7.666	7.652	(1 000)	350963	10.0000	
14	Chloroform	83	7.742	7.743	(1 010)	438504	5 00000	5.2

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	ON-COL (ppbv)
	15 1,2-Dichloroethane	62	8.289	8.274	(1.081)	314293	5.00000	5.3
	16 1,1,1-Trichloroethane	97	8.471	8.456	(1.105)	425919	5.00000	5.3
	17 Benzene	78	8.789	8.775	(0.976)	570051	5.00000	5.3
	18 Carbon Tetrachloride	117	8.880	8.866	(0.986)	438510	5.00000	5.6
*	19 1,4-Difluorobenzene	114	9.002	9.002	(1.000)	1577241	10.0000	
	20 1,2-Dichloropropane	63	9.336	9.321	(1.037)	226026	5.00000	5.5
	21 Trichloroethene	95	9.472	9.473	(1.052)	274025	5.00000	5.5
	22 cis-1,3-Dichloropropene	75	10.034	10.034	(1.115)	341884	5.00000	5.3
	23 trans-1,3-Dichloropropene	75	10.383	10.368	(1.153)	259359	5.00000	5.1
	24 1,1,2-Trichloroethane	83	10.504	10.505	(1.167)	239296	5.00000	5.5
	25 Toluene	92	10.701	10.702	(0.900)	441845	5.00000	5.8
	26 1,2-Dibromoethane	107	11.157	11.157	(0.939)	409899	5.00000	5.8
	27 Tetrachloroethene	166	11.460	11.446	(0.964)	335865	5.00000	5.9
*	28 Chlorobenzene-d5	117	11.885	11.871	(1.000)	1529114	10.0000	
	29 Chlorobenzene	112	11.916	11.901	(1.003)	586425	5.00000	5.9
	30 Ethylbenzene	91	12.143	12.144	(1.022)	1029518	5.00000	6.0
	31 Xylene (m,p	106	12.249	12.250	(1.031)	735178	10.0000	12
	32 Styrene	104	12.507	12.508	(1.052)	495687	5.00000	6.0
M	33 Xylene (total)	106				1094204	5.00000	18
	34 1,1,2,2-Tetrachloroethane	83	12.568	12.569	(1.057)	665490	5.00000	6.3
	35 Xylene (o)	106	12.583	12.584	(1.059)	359026	5.00000	5.8
	36 1,3,5-Trimethylbenzene	105	13.509	13.494	(1.137)	861832	5.00000	6.4
	37 1,2,4-Trimethylbenzene	105	13.828	13.828	(1.163)	848865	5.00000	6.2
	38 1,3-Dichlorobenzene	146	13.979	13.980	(1.176)	587013	5.00000	6.2
	39 1,4-Dichlorobenzene	146	14.040	14.041	(1.181)	571607	5.00000	5.8
	40 1,2-Dichlorobenzene	146	14.328	14.329	(1.206)	500762	5.00000	6.2
	41 1,2,4-Trichlorobenzene	180	15.892	15.877	(1.337)	138524	5.00000	4.3
	42 Hexachlorobutadiene	225	16.301	16.302	(1.372)	207923	5.00000	6.0

Data File: /chem/W.i/Wsvr.p/wcbto14.b/cb010.d
Date : 10-JUL-2000 10:55
Client ID: ASTD010
Sample Info: ASTD010
Purge Volume: 200.0
Columr ase: DB-1

Instrument: W.i

Operator: GMM
Column diameter: 0.35



STL Burlington

AIR TOXICS QUANTITATION REPORT

Data file : /chem/W.i/Wsvr.p/wcbto14.b/cb010.d
Lab Smp Id: ASTD010 Client Smp ID: ASTD010
Inj Date : 10-JUL-2000 10:55
Operator : GMM Inst ID: W.i
Smp Info : ASTD010
Misc Info :
Comment :
Method : /chem/W.i/Wsvr.p/wcbto14.b/ato14.m
Meth Date : 24-Jul-2000 14:59 cpc Quant Type: ISTD
Cal Date : 10-JUL-2000 10:55 Cal File: cb010.d
Als bottle: 3 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50
Processing Host: chemsvr4

Concentration Formula: Amt * DF * X* Uf/Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
X	200.00000	method volume factor
Uf	1.00000	ng unit correction factor
Vo	200.00000	Sample Volume purged (mL)

Cpnd Variable Local Compound Variable

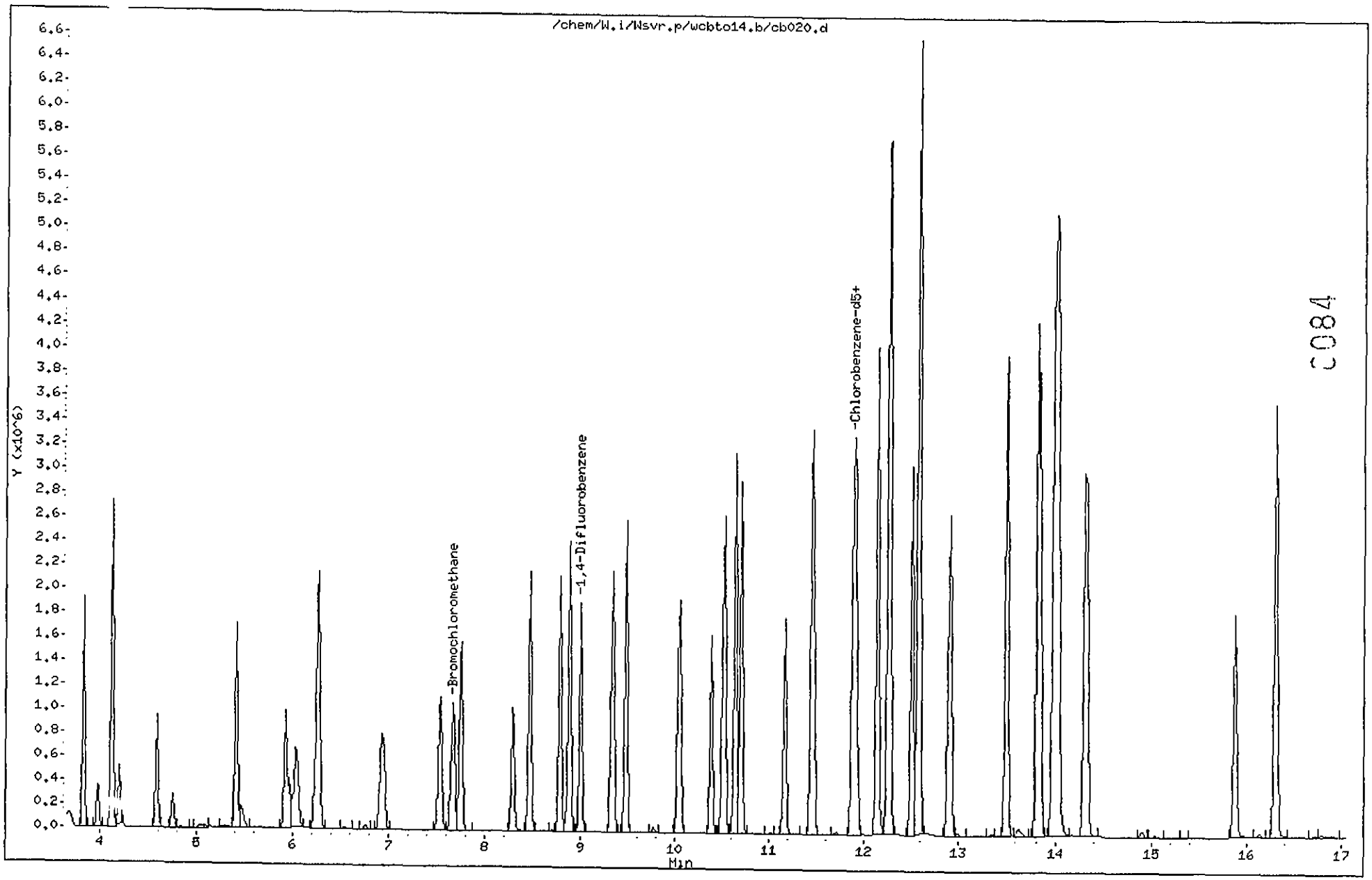
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	AMOUNTS ON-COL (ppbv)
1	Dichlorodifluoromethane	85	3.798	3.798	(0.496)	907652	10.0000	10
2	Chloromethane	50	3 957	3.957	(0.517)	233985	10.0000	9.8
3	Dichlorotetrafluoroethane	85	4.101	4.101	(0.536)	907926	10.0000	9 9
4	Vinyl Chloride	62	4.188	4.188	(0.547)	261703	10.0000	10
5	Bromomethane	94	4 563	4.563	(0.596)	336226	10.0000	10
6	Chloroethane	64	4 750	4.750	(0.621)	148488	10 0000	9.8
7	Trichlorofluoromethane	101	5.406	5.406	(0.706)	859007	10.0000	10
8	1,1-Dichloroethene	96	5 922	5.922	(0.774)	299412	10.0000	10
9	Methylene Chloride	49	6.028	6.028	(0.788)	373295	10.0000	9.7
10	Freon TF	101	6.256	6.256	(0.818)	691766	10.0000	9.7
11	1,1-Dichloroethane	63	6.923	6.923	(0.905)	624587	10.0000	10
12	cis-1,2-Dichloroethene	61	7.530	7.530	(0.984)	476113	10.0000	10
* 13	Bromochloromethane	128	7 652	7 652	(1.000)	330271	10.0000	
14	Chloroform	83	7 743	7 743	(1.012)	794266	10 0000	10

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	AMOUNTS ON-COL (ppbv)
15	1,2-Dichloroethane	62	8 274	8.274	(1.081)	558139	10.0000	10
16	1,1,1-Trichloroethane	97	8.456	8 456	(1.105)	767575	10.0000	10
17	Benzene	78	8 775	8.775	(0.975)	1048110	10.0000	10
18	Carbon Tetrachloride	117	8 866	8 866	(0.985)	782700	10.0000	10
* 19	1,4-Difluorobenzene	114	9 002	9.002	(1.000)	1527537	10.0000	
20	1,2-Dichloropropane	63	9.321	9.321	(1 035)	408567	10.0000	10
21	Trichloroethene	95	9.473	9.473	(1.052)	488262	10.0000	10
22	cis-1,3-Dichloropropene	75	10.034	10.034	(1.115)	648671	10.0000	10
23	trans-1,3-Dichloropropene	75	10.368	10.368	(1.152)	507250	10.0000	10
24	1,1,2-Trichloroethane	83	10.505	10.505	(1.167)	431024	10.0000	10
25	Toluene	92	10.702	10.702	(0.902)	825501	10.0000	11
26	1,2-Dibromoethane	107	11.157	11.157	(0.940)	761610	10.0000	11
27	Tetrachloroethene	166	11.446	11.446	(0.964)	616732	10.0000	11
* 28	Chlorobenzene-d5	117	11.871	11.871	(1.000)	1495244	10.0000	
29	Chlorobenzene	112	11.901	11.901	(1.003)	1071993	10.0000	11
30	Ethylbenzene	91	12.144	12.144	(1.023)	1928811	10.0000	12
31	Xylene (m,p)	106	12.250	12.250	(1.032)	1376255	20.0000	22
32	Styrene	104	12.508	12.508	(1.054)	954421	10.0000	12
M 33	Xylene (total)	106				2060832	10.0000	34
34	1,1,2,2-Tetrachloroethane	83	12.569	12.569	(1.059)	1200944	10.0000	12
35	Xylene (o)	106	12.584	12.584	(1.060)	684577	10.0000	11
36	1,3,5-Trimethylbenzene	105	13.494	13.494	(1.137)	1599775	10.0000	12
37	1,2,4-Trimethylbenzene	105	13.828	13.828	(1.165)	1594727	10.0000	12
38	1,3-Dichlorobenzene	146	13.980	13.980	(1.178)	1131644	10.0000	12
39	1,4-Dichlorobenzene	146	14.041	14 041	(1.183)	1084890	10.0000	11
40	1,2-Dichlorobenzene	146	14.329	14.329	(1.207)	968831	10.0000	12
41	1,2,4-Trichlorobenzene	180	15.877	15 877	(1.337)	341319	10.0000	11
42	Hexachlorobutadiene	225	16.302	16 302	(1 373)	423917	10.0000	12

Data File: /chem/W.i/Wsvr.p/wcbto14.b/cb020.d
Date : 10-JUL-2000 11:31
Client ID: ASTD020
Sample Info: ASTD020
Purge Volume: 200.0
Column phase: DB-1

Instrument: W.i

Operator: GMM
Column diameter: 0.35



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AIR TOXICS QUANTITATION REPORT

Data file : /chem/W.i/Wsvr.p/wcbto14.b/cb020.d
Lab Smp Id: ASTD020 Client Smp ID: ASTD020
Inj Date : 10-JUL-2000 11:31
Operator : GMM Inst ID: W.i
Smp Info : ASTD020
Misc Info :
Comment :
Method : /chem/W.i/Wsvr.p/wcbto14.b/ato14.m
Meth Date : 24-Jul-2000 14:59 cpc Quant Type: ISTD
Cal Date : 10-JUL-2000 11:31 Cal File: cb020.d
Als bottle: 4 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50
Processing Host: chemsvr4

Concentration Formula: Amt * DF * X* Uf/Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
X	200.00000	method volume factor
Uf	1.00000	ng unit correction factor
Vo	200.00000	Sample Volume purged (mL)

Cpnd Variable Local Compound Variable

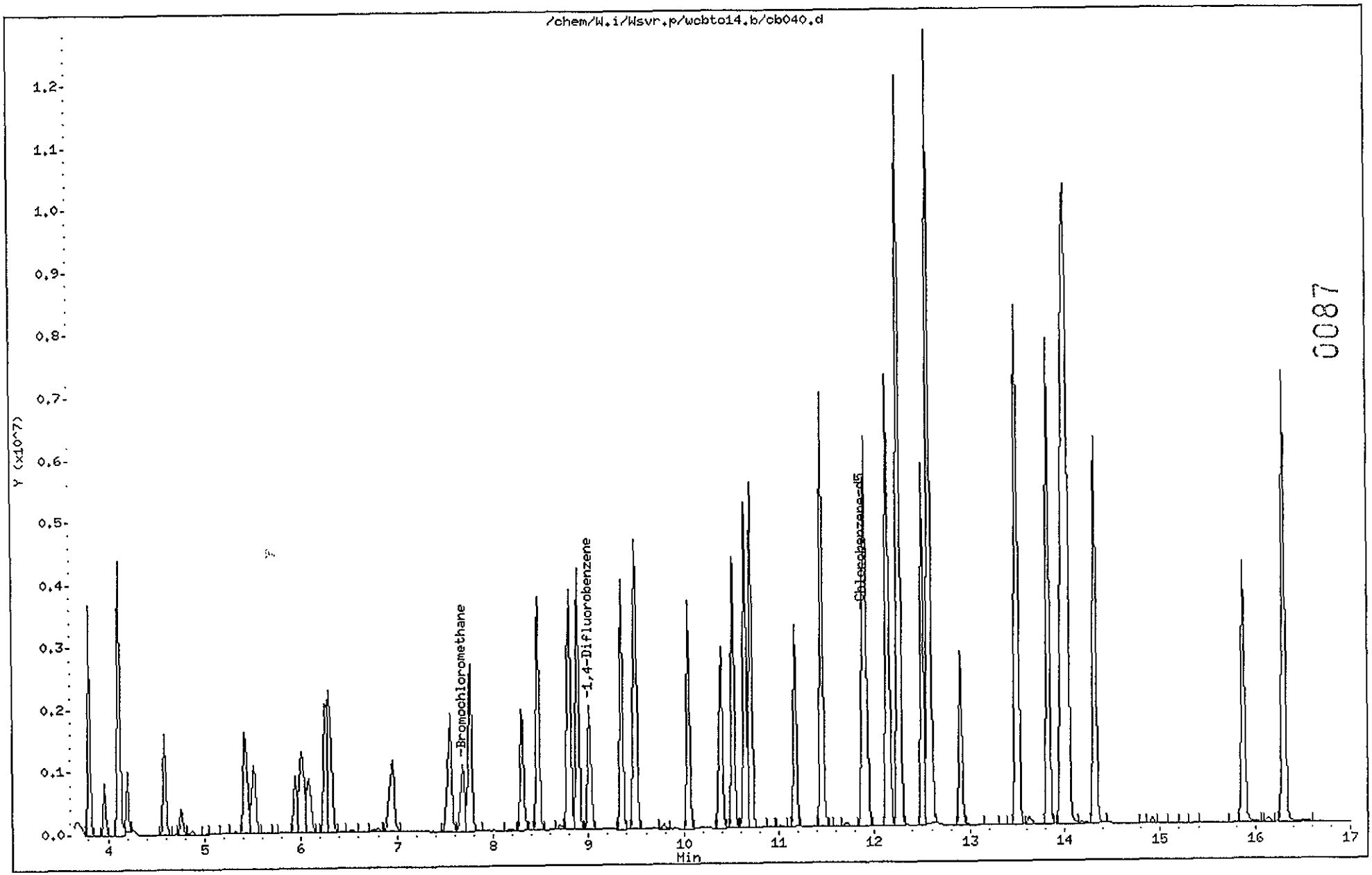
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	AMOUNTS ON-COL (ppbv)
1	Dichlorodifluoromethane	85	3.824	3.798	(0.499)	1626964	20.0000	18
2	Chloromethane	50	3.968	3 957	(0.518)	431468	20.0000	18
3	Dichlorotetrafluoroethane	85	4.127	4 101	(0.538)	1640180	20.0000	18
4	Vinyl Chloride	62	4.199	4.188	(0.548)	476557	20.0000	18
5	Bromomethane	94	4.588	4.563	(0.598)	596264	20.0000	18
6	Chloroethane	64	4.761	4.750	(0.621)	271565	20.0000	18
7	Trichlorofluoromethane	101	5.420	5.406	(0.707)	1432430	20.0000	17
8	1,1-Dichloroethene	96	5 936	5.922	(0.774)	551870	20.0000	18
9	Methylene Chloride	49	6.027	6.028	(0.786)	633288	20.0000	16
10	Freon TF	101	6 270	6.256	(0.818)	1279237	20.0000	18
11	1,1-Dichloroethane	63	6.938	6.923	(0 905)	1151921	20.0000	18
12	cis-1,2-Dichloroethene	61	7.545	7.530	(0 984)	874827	20.0000	18
* 13	Bromochloromethane	128	7.666	7 652	(1 000)	332637	10.0000	
14	Chloroform	83	7.757	7 743	(1.012)	1453252	20.0000	18

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	ON-COL (ppbv)
	15 1,2-Dichloroethane	62	8.289	8.274	(1.081)	1032182	20.0000	18
	16 1,1,1-Trichloroethane	97	8.471	8.456	(1.105)	1409719	20.0000	18
	17 Benzene	78	8.789	8.775	(0.976)	1973502	20.0000	19
	18 Carbon Tetrachloride	117	8.880	8.866	(0.986)	1440836	20.0000	19
*	19 1,4-Difluorobenzene	114	9.002	9.002	(1.000)	1546872	10.0000	
	20 1,2-Dichloropropane	63	9.336	9.321	(1.037	759496	20.0000	19
	21 Trichloroethene	95	9.488	9.473	(1.054)	921997	20.0000	19
	22 cis-1,3-Dichloropropene	75	10.049	10.034	(1.116)	1265836	20.0000	20
	23 trans-1,3-Dichloropropene	75	10.383	10.368	(1.153)	995985	20.0000	20
	24 1,1,2-Trichloroethane	83	10.519	10.505	(1.169)	789055	20.0000	19
	25 Toluene	92	10.702	10.702	(0.900)	1563358	20.0000	20
	26 1,2-Dibromoetnane	107	11.172	11.157	(0.940)	1445172	20.0000	20
	27 Tetrachloroethene	166	11.460	11.446	(0.964)	1179767	20.0000	20
*	28 Chlorobenzene-d5	117	11.885	11.871	(1.000)	1598812	10.0000	
	29 Chlorobenzene	112	11.916	11.901	(1.003	1988806	20.0000	19
	30 Ethylbenzene	91	12.143	12.144	(1.022)	3552793	20.0000	20
	31 Xylene (m,p)	106	12.265	12.250	(1.032)	2641744	40.0000	40
	32 Styrene	104	12.507	12.508	(1.052	1862463	20.0000	22
M	33 Xylene (total)	106				3951883	20.0000	61
	34 1,1,2,2-Tetrachloroethane	83	12.568	12.569	(1.057)	2200595	20.0000	20
	35 Xylene (o)	106	12.583	12.584	(1.059)	1310139	20.0000	20
	36 1,3,5-Trimethylbenzene	105	13.509	13.494	(1.137)	3019101	20.0000	21
	37 1,2,4-Trimethylbenzene	105	13.828	13.828	(1.163)	3003461	20.0000	21
	38 1,3-Dichlorobenzene	146	13.980	13.980	(1.176)	2095135	20.0000	21
	39 1,4-Dichlorobenzene	146	14.040	14.041	(1.181)	2110122	20.0000	21
	40 1,2-Dichlorobenzene	146	14.329	14.329	(1.206)	1862416	20.0000	22
	41 1,2,4-Trichlorobenzene	180	15.876	15.877	(1.336)	790175	20.0000	23
	42 Hexachlorobutadiene	225	16.301	16.302	(1.372)	851163	20.0000	23

Data File: /chem/W.i/Wsvr.p/wcbto14.b/cb040.d
Date : 10-JUL-2000 12:08
Client ID: ASTD040
Sample Info: ASTD040
Purge Volume: 200.0
Column phase: DB-1

Instrument: W.i

Operator: GMM
Column diameter: 0.35



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AIR TOXICS QUANTITATION REPORT

Data file : /chem/W.i/Wsvr.p/wcbto14.b/cb040.d
Lab Smp Id: ASTD040 Client Smp ID: ASTD040
Inj Date : 10-JUL-2000 12:08
Operator : GMM Inst ID: W.i
Smp Info : ASTD040
Misc Info :
Comment :
Method : /chem/W.i/Wsvr.p/wcbto14.b/ato14.m
Meth Date : 24-Jul-2000 14:59 cpc Quant Type: ISTD
Cal Date : 10-JUL-2000 12:08 Cal File: cb040.d
Als bottle: 5 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50
Processing Host: chemsvr4

Concentration Formula: Amt * DF * X* Uf/Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
X	200.00000	method volume factor
Uf	1.00000	ng unit correction factor
Vo	200.00000	Sample Volume purged (mL)

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	ON-COL (ppbv)
1	Dichlorodifluoromethane	85	3.809	3.798	(0.496)	2908407	40.0000	32
2	Chloromethane	50	3.968	3.957	(0.517)	840506	40.0000	34
3	Dichlorotetrafluoroethane	85	4.127	4.101	(0.537)	2991090	40.0000	32
4	Vinyl Chloride	62	4.199	4.188	(0.547)	944808	40.0000	36
5	Bromomethane	94	4.588	4.563	(0.597)	1154174	40.0000	34
6	Chloroethane	64	4.761	4.750	(0.620)	583101	40.0000	38 M
7	Trichlorofluoromethane	101	5.420	5.406	(0.706)	3008932	40.0000	35 M
8	1,1-Dichloroethene	96	5.997	5.922	(0.781)	1071111	40.0000	36 M
9	Methylene Chloride	49	6.088	6.028	(0.793)	1241632	40.0000	32
10	Freon TF	101	6.300	6.256	(0.820)	2459550	40.0000	34 M
11	1,1-Dichloroethane	63	6.968	6.923	(0.907)	2067440	40.0000	33
12	cis-1,2-Dichloroethene	61	7.560	7.530	(0.984)	1654016	40.0000	35
* 13	Bromochloromethane	128	7.681	7.652	(1.000)	335236	10.0000	
14	Chloroform	83	7.772	7.743	(1.012)	2697170	40.0000	34

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	ON-COI (ppbv)
15	1,2-Dichloroethane	62	8.304	8.274	(1.081)	1926390	40.0000	34
16	1,1,1-Trichloroethane	97	8.486	8.456	(1.105)	2588013	40.0000	34
17	Benzene	78	8.804	8.775	(0.976)	3737046	40.0000	34
18	Carbon Tetrachloride	117	8.895	8.866	(0.987)	2660863	40.0000	33
* 19	1,4-Difluorobenzene	114	9.017	9.002	(1.000)	1624728	10.0000	
20	1,2-Dichloropropane	63	9.351	9.321	(1.037)	1404698	40.0000	33
21	Trichloroethene	95	9.487	9.473	(1.052)	1685281	40.0000	33
22	cis-1,3-Dichloropropene	75	10.049	10.034	(1.114)	2379268	40.0000	36
23	trans-1,3-Dichloropropene	75	10.398	10.368	(1.153)	1934419	40.0000	37
24	1,1,2-Trichloroethane	83	10.519	10.505	(1.167)	1458832	40.0000	33
25	Toluene	92	10.716	10.702	(0.902)	2998386	40.0000	32
26	1,2-Dibromoethane	107	11.172	11.157	(0.940)	2717906	40.0000	32
27	Tetrachloroethene	166	11.460	11.446	(0.964)	2233859	40.0000	32
* 28	Chlorobenzene-d5	117	11.885	11.871	(1.000)	1839051	10.0000	
29	Chlorobenzene	112	11.915	11.901	(1.003)	3738760	40.0000	31
30	Ethylbenzene	91	12.143	12.144	(1.022)	6616083	40.0000	32
31	Xylene (m,p)	106	12.264	12.250	(1.032)	5192826	80.0000	69
32	Styrene	104	12.507	12.508	(1.052)	3744331	40.0000	38
M 33	Xylene (total)	106				7762682	40.0000	100
34	1,1,2,2-Tetrachloroethane	83	12.583	12.569	(1.059)	4101773	40.0000	32
35	Xylene (o)	106	12.598	12.584	(1.060)	2569856	40.0000	35
36	1,3,5-Trimethylbenzene	105	13.509	13.494	(1.137)	5712304	40.0000	35
37	1,2,4-Trimethylbenzene	105	13.827	13.828	(1.163)	5761755	40.0000	35
38	1,3-Dichlorobenzene	146	13.994	13.980	(1.177)	3898564	40.0000	34
39	1,4-Dichlorobenzene	146	14.040	14.041	(1.181)	4271203	40.0000	36
40	1,2-Dichlorobenzene	146	14.328	14.329	(1.206)	3603688	40.0000	37
41	1,2,4-Trichlorobenzene	180	15.876	15.877	(1.336)	1801169	40.0000	46(A)
42	Hexachlorobutadiene	225	16.301	16.302	(1.372)	1724558	40.0000	41(A)

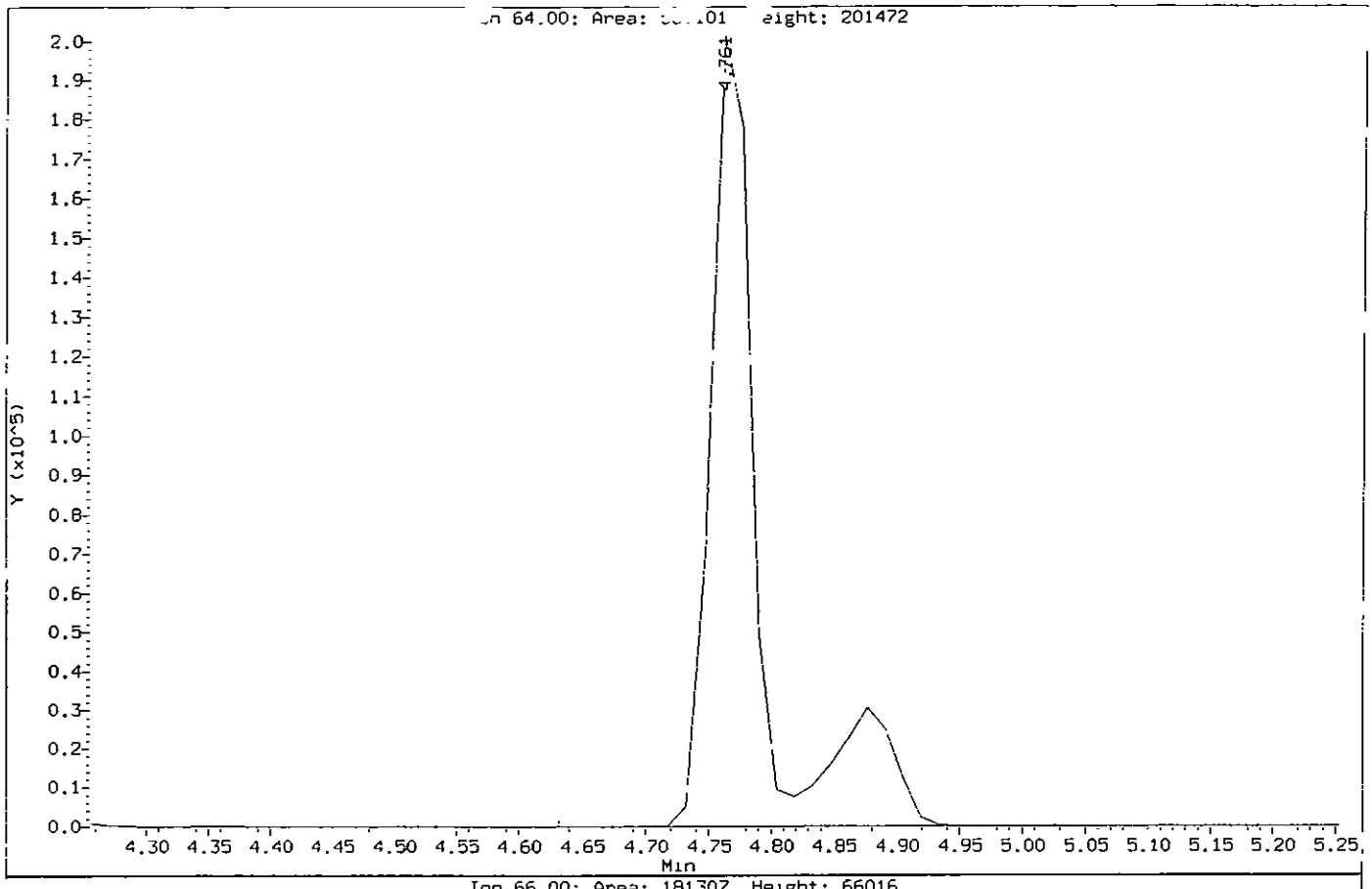
QC Flag Legend

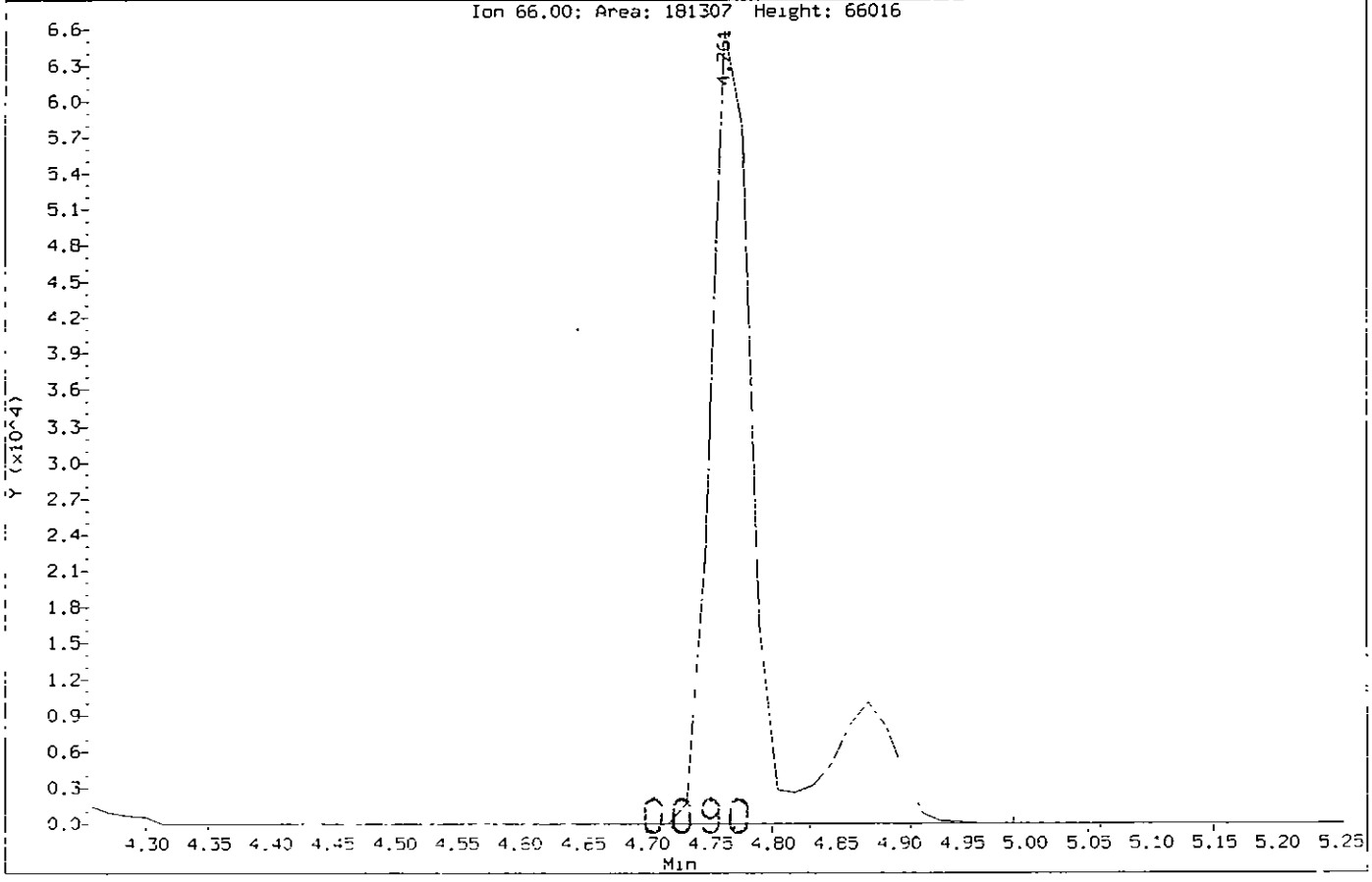
A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.

CRL 7/24/00

Data File: /chem/W.1/Usvr.p/wcbto14.b/cb040.d
Injection Date: 10-Jul-2000 12:08
Instrument: W.1
Client Sample ID: ASTD040

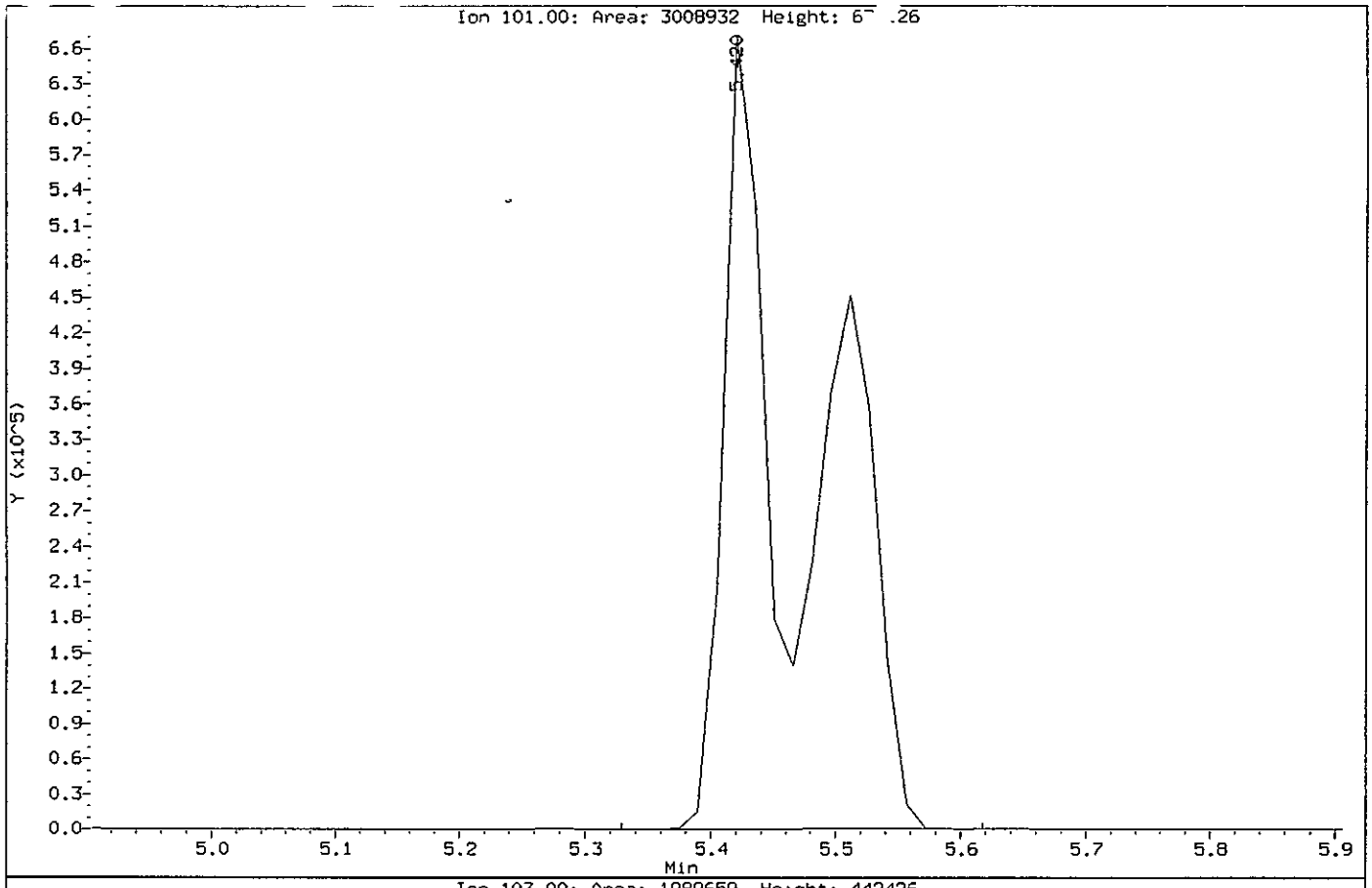
Compound: Chloroethane
CAS Number: 75-00-3

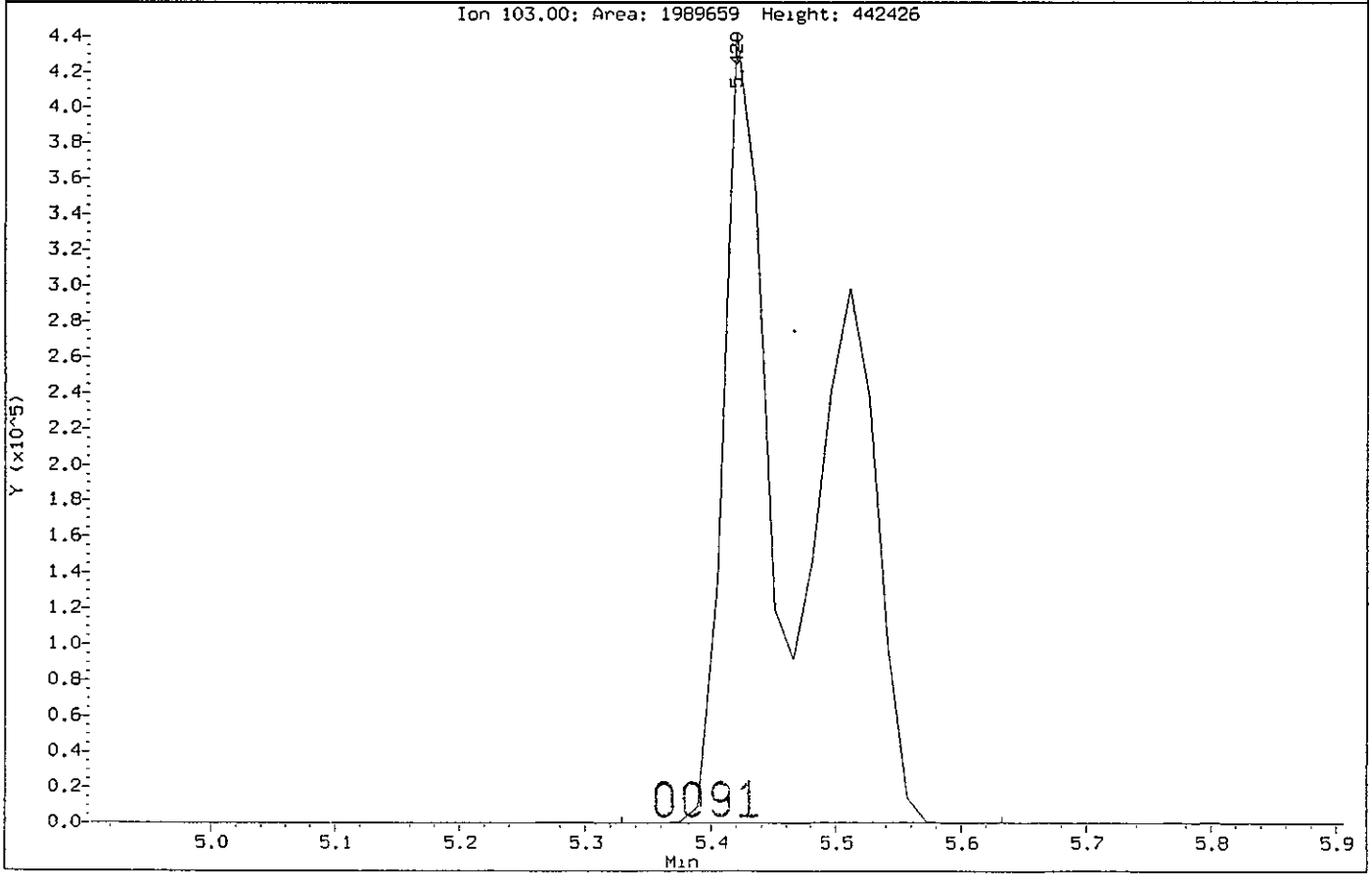




Data File: /chem/W.i/Wsvr.p/wcbtol4.b/cb040.d
Injection Date: 10-JUL-2000 12:08
Instrument: W.i
Client Sample ID: AS1D040

Compound: Trichlorofluoromethane
CAS Number: 75-69-4

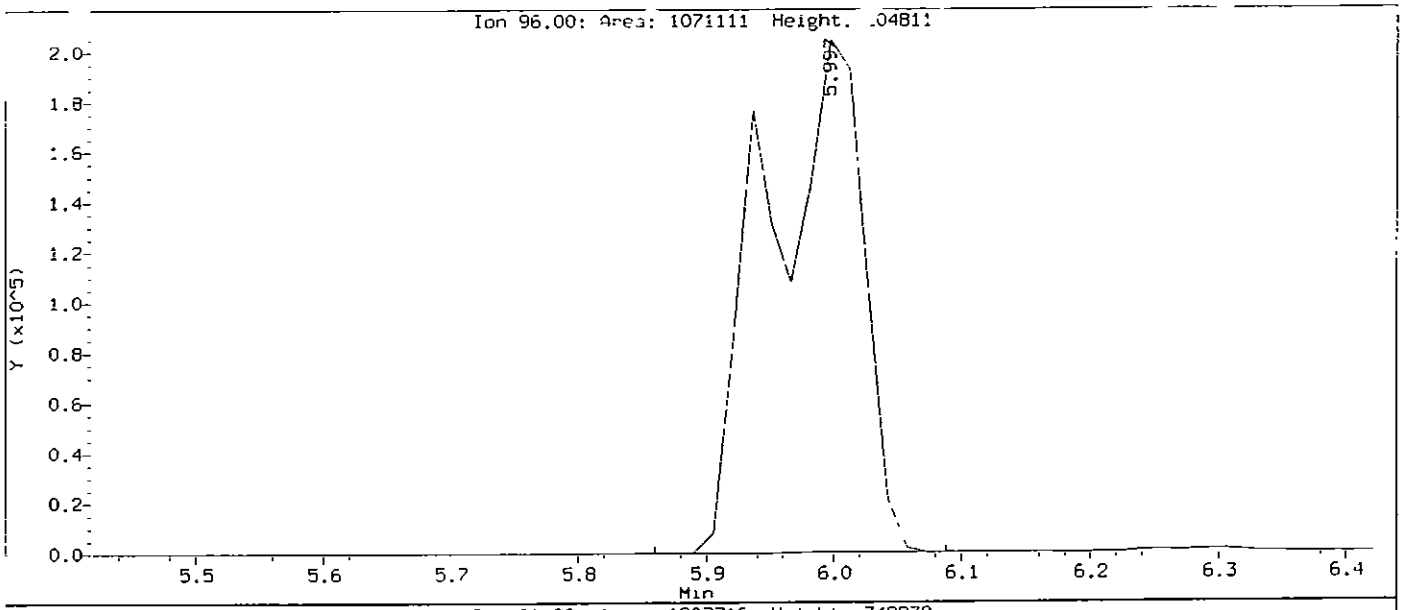


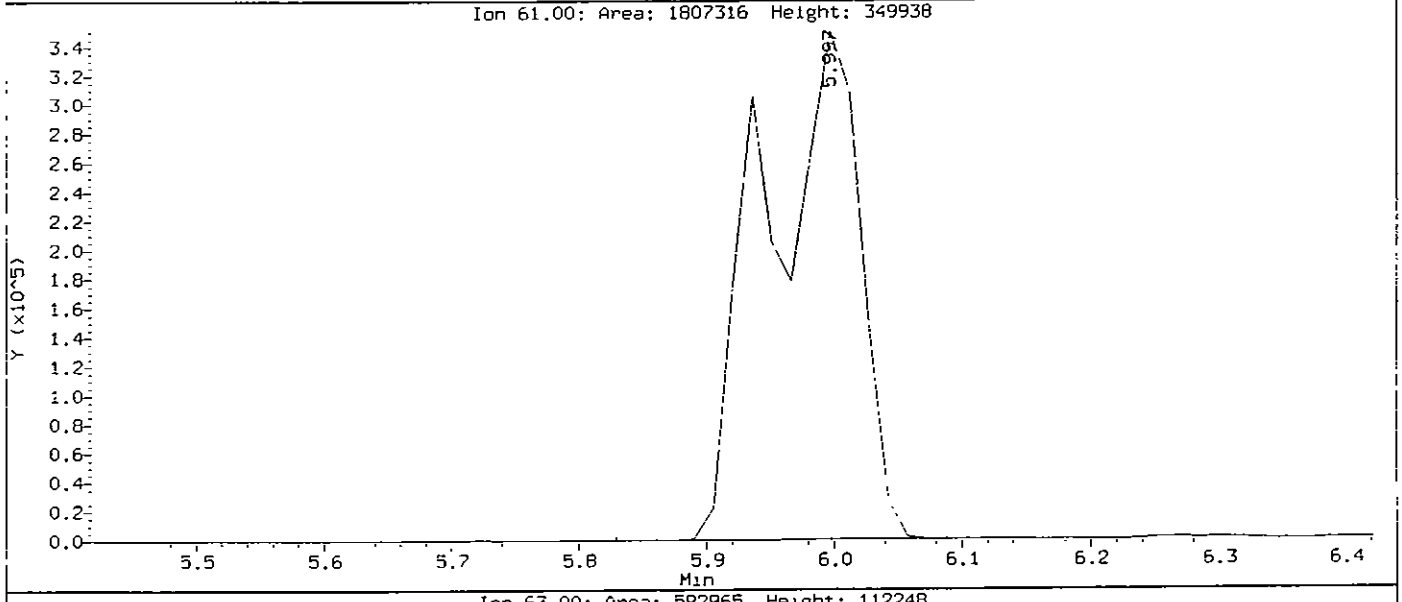


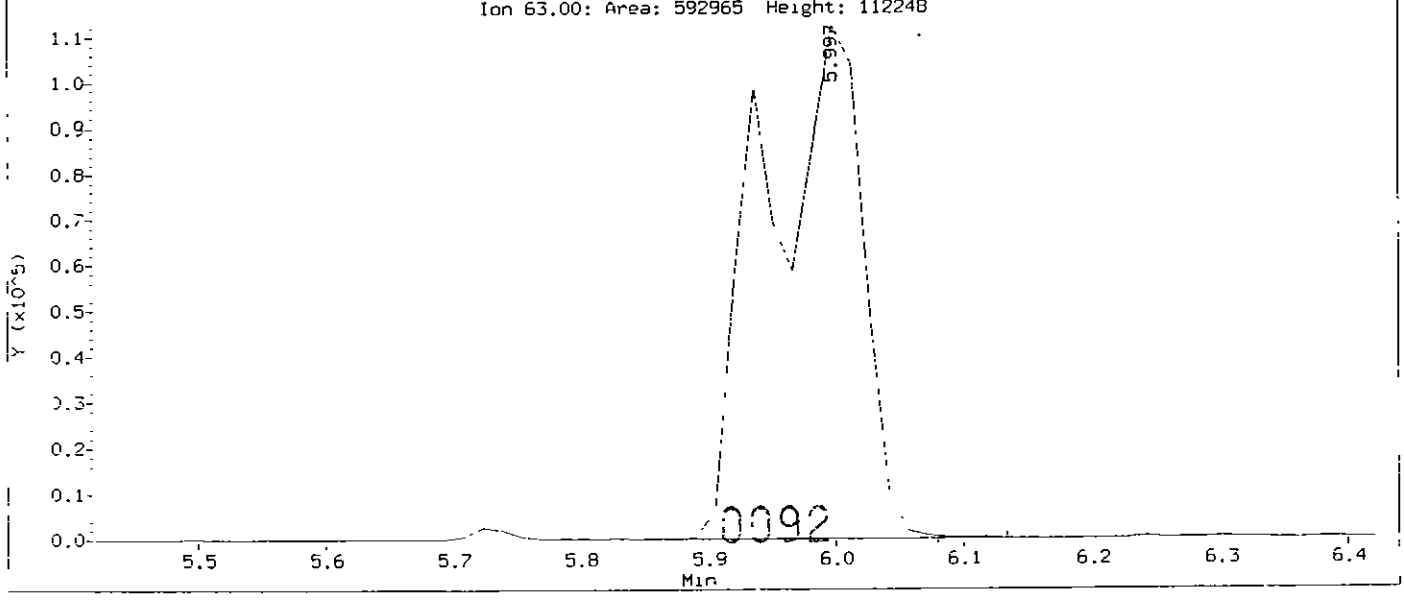
0091

Data File: /chem/W.1/Wsvr.p/wcbto14.b/cb040.d
Injection Date: 10-JUL-2000 12:08
Instrument: W.1
Client Sample ID: ASTD040

Compound: 1,1-Dichloroethene
CAS Number: 75-35-4

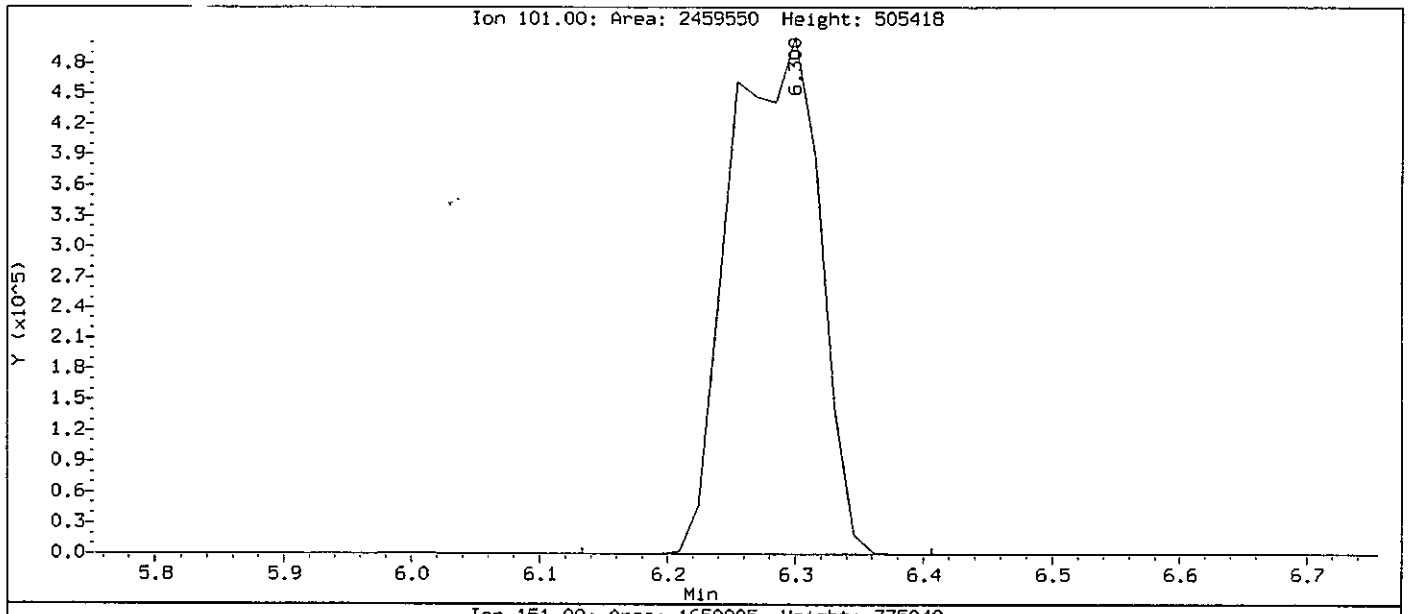


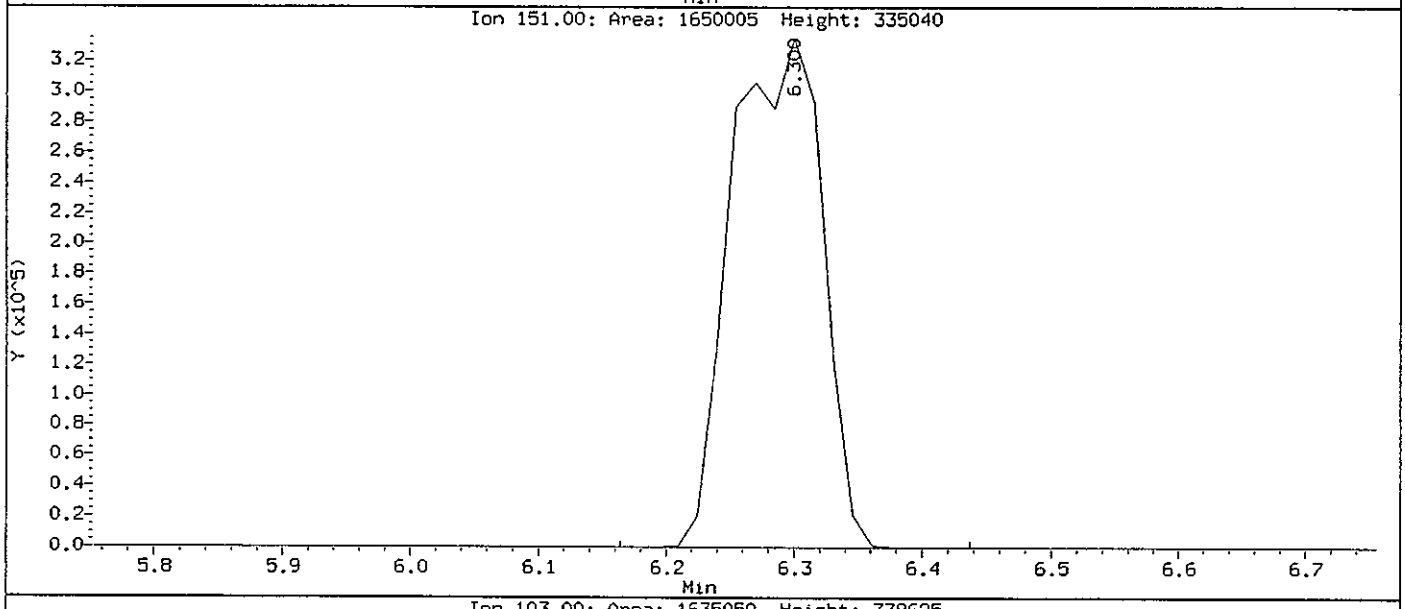


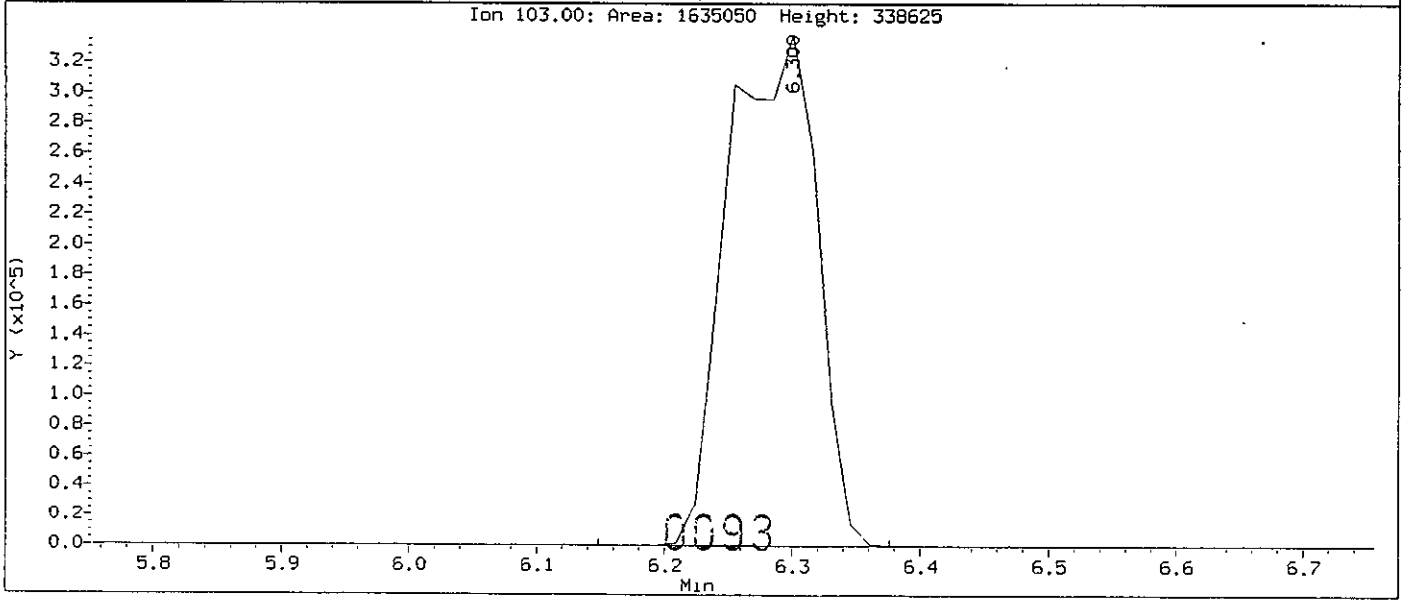


Data File: /chem/W.i/Wsvr.p/wcbto14.b/cb040.d
Injection Date: 10-JUL-2000 12:08
Instrument: W.i
Client Sample ID: ASTD040

Compound: Freon TF
CAS Number: 76-1[illegible]-1





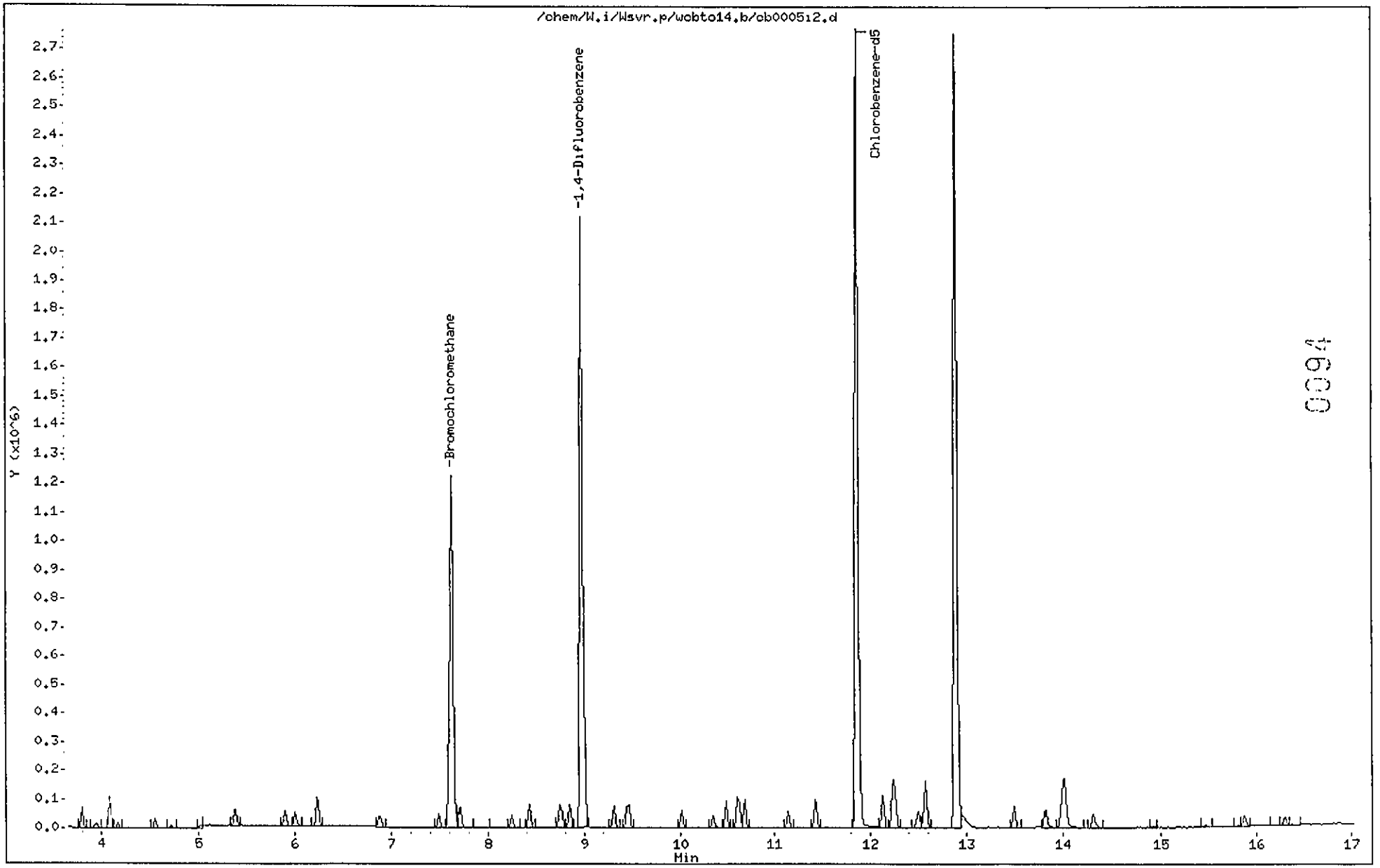


0093

Data File: /chem/W.i/Wsvr.p/wcbto14.b/cb000512.d
Date : 10-JUL-2000 13:37
Client ID: ASTD0005
Sample Info: ASTD0005
Purge Volume: 200.0
Column phase: DB-1

Instrument: W.i

Operator: GMM
Column diameter: 0.35



STL Burlington

AIR TOXICS QUANTITATION REPORT

Data file : /chem/W.i/Wsvr.p/wcbto14.b/cb0005i2.d
Lab Smp Id: ASTD0005 Client Smp ID: ASTD0005
Inj Date : 10-JUL-2000 13:37
Operator : GMM Inst ID: W.i
Smp Info : ASTD0005
Misc Info :
Comment :
Method : /chem/W.i/Wsvr.p/wcbto14.b/ato14.m
Meth Date : 24-Jul-2000 14:59 cpc Quant Type: ISTD
Cal Date : 10-JUL-2000 13:37 Cal File: cb0005i2.d
Als bottle: 1 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50
Processing Host: chemsvr4

Concentration Formula: Amt * DF * X* Uf/Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
X	200.00000	method volume factor
Uf	1.00000	ng unit correction factor
Vo	200.00000	Sample Volume purged (mL)

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	AMOUNTS ON-COL (ppbv)
1	Dichlorodifluoromethane	85	3.795	3.798	(0.498)	60504	0.50000	0.61
2	Chloromethane	50	3.954	3.957	(0.519)	17602	0.50000	0.67
3	Dichlorotetrafluoroethane	85	4.083	4.101	(0 536)	64145	0.50000	0.64
4	Vinyl Chloride	62	4.170	4.188	(0.547)	16881	0.50000	0.59
5	Bromomethane	94	4.545	4.563	(0.596)	23130	0.50000	0.63
6	Chloroethane	64	4.718	4.750	(0.619)	9811	0.50000	0.59
7	Trichlorofluoromethane	101	5.390	5.406	(0 707)	56514	0.50000	0.60
8	1,1-Dichloroethene	96	5.906	5.922	(0.775)	19099	0.50000	0.58
9	Methylene Chloride	49	5.997	6.028	(0.787)	30468	0.50000	0.72
10	Freon TF	101	6.225	6 256	(0.817)	49950	0.50000	0.64
11	1,1-Dichloroethane	63	6.892	6 923	(0.904)	41935	0.50000	0.61
12	cis-1,2-Dichloroethene	61	7.484	7 530	(0.982)	29341	0.50000	0.57
* 13	Bromochloromethane	128	7.621	7 652	(1 000)	363665	10.0000	
14	Chloroform	83	7.712	7 743	(1.012)	52651	0.50000	0.60

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	ON-COL (ppbv)
	15 1,2-Dichloroethane	62	8.243	8 274	(1 082)	35338	0.50000	0.58
	16 1,1,1-Trichloroethane	97	8.425	8.456	(1.106	48552	0.50000	0.58
	17 Benzene	78	8.744	8.775	(0 975,	71781	0.50000	0.58
	18 Carbon Tetrachloride	117	8.835	8.866	(0.985)	48686	0 50000	0.55
*	19 1,4-Difluorobenzene	114	8.971	9.002	(1 000,	1792767	10.0000	
	20 1,2-Dichloropropane	63	9.305	9 321	(1 037)	26381	0.50000	0.56
	21 Trichloroethene	95	9.442	9.473	(1 052)	31408	0.50000	0.56
	22 cis-1,3-Dichloropropene	75	10.018	10.034	(1 117)	37494	0.50000	0.51
	24 1,1,2-Trichloroethane	83	10.489	10 505	(1.169)	27182	0.50000	0.55
*	28 Chlorobenzene-d5	117	11.870	11 871	(1.000,	1997368	10.0000	
	31 Xylene (m,p)	106	12.249	12 250	(1.032,	68556	1.00000	0.84
M	33 Xylene (total)	106				100304	0.50000	1.2

Burlington

INITIAL CALIBRATION DATA

Start Cal Date : 10-JUL-2000 10:21
End Cal Date : 10-JUL-2000 13:37
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/W.i/Wsvr.p/wcbto14.b/ato14.m
Cal Date : 07-Aug-2000 14:52 cpc
Curve Type : Average

Calibration File Names:
Level 1: /chem/W.i/Wsvr.p/wcbto14.b/cb0005i2.d
Level 2: /chem/W.i/Wsvr.p/wcbto14.b/cb005.d
Level 3: /chem/W.i/Wsvr.p/wcbto14.b/cb010.d
Level 4: /chem/W.i/Wsvr.p/wcbto14.b/cb020.d
Level 5: /chem/W.i/Wsvr.p/wcbto14.b/cb040.d

Compound	0.50000 Level 1	5.000 Level 2	10.000 Level 3	20.000 Level 4	40.000 Level 5	___ RRF	% RSD
1 Dichlorodifluoromethane	3.32746	2.86534	2.74820	2.44555	2.16893	2.71110	16.179
2 Chloromethane	0.96803	0.67234	0.70846	0.64856	0.62680	0.72484	19.216
3 Dichlorotetrafluoroethane	3.52770	2.85091	2.74903	2.46542	2.23059	2.76473	17.763
4 Vinyl Chloride	0.92838	0.77491	0.79239	0.71633	0.70458	0.78332	11.397
5 Bromomethane	1.27205	1.00625	1.01803	0.89627	0.86072	1.01066	15.952
6 Chloroethane	0.53956	0.45787	0.44959	0.40820	0.43484	0.45801	10.773
7 Trichlorofluoromethane	3.10803	2.83438	2.60092	2.15314	2.24389	2.58807	15.441
8 1,1-Dichloroethene	1.05036	0.90241	0.90656	0.82954	0.79877	0.89753	10.837
9 Methylene Chloride	1.67561	1.15686	1.13027	0.95192	0.92594	1.16812	25.842
10 Freon TF	2.74703	2.19995	2.09454	1.92287	1.83419	2.15972	16.580
11 1,1-Dichloroethane	2.30624	1.94403	1.89113	1.73150	1.54178	1.88294	15.075
12 cis-1,2-Dichloroethene	1.61363	1.47021	1.44158	1.31499	1.23347	1.41478	10.374
14 Chloroform	2.89558	2.49886	2.40489	2.18444	2.01140	2.39903	14.026
15 1,2-Dichloroethane	1.94344	1.79103	1.68994	1.55151	1.43659	1.68250	11.796
16 1,1,1-Trichloroethane	2.67015	2.42714	2.32408	2.11901	1.92999	2.29407	12.392
17 Benzene	0.80078	0.72285	0.68614	0.63790	0.57503	0.68454	12.471
18 Carbon Tetrachloride	0.54314	0.55605	0.51239	0.46573	0.40943	0.49735	12.105
20 1,2-Dichloropropane	0.29430	0.28661	0.26747	0.24549	0.21614	0.26200	12.151
21 Trichloroethene	0.35039	0.34747	0.31964	0.29802	0.25932	0.31497	12.003
22 cis-1,3-Dichloropropene	0.41828	0.43352	0.42465	0 40916	0.36610	0.41034	6.406
23 trans-1,3-Dichloropropene	0.31767	0.32888	0.33207	0.32194	0.29765	0.31964	4.233
24 1,1,2-Trichloroethane	0.30324	0.30344	0.28217	0.25505	0.22447	0.27367	12.391
25 Toluene	0.47900	0.57791	0.55208	0.48891	0.40760	0.50110	13.342
26 1,2-Dibromoethane	0.43780	0.53613	0.50935	0.45195	0.36947	0.46094	14.135
27 Tetrachloroethene	0.34770	0.43929	0.41246	0.36895	0.30367	0.37441	14.262
29 Chlorobenzene	0.62421	0.76701	0.71694	0.62196	0.50825	0.64767	15.380

STI Burlington

INITIAL CALIBRATION DATA

Start Cal Date : 10-JUL-2000 10:21
End Cal Date : 10-JUL-2000 13:37
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/W.i/Wsvr.p/wcbto14.b/ato14.m
Cal Date : 07-Aug-2000 14:52 cpc
Curve Type : Average

	Compound	0.50000 Level 1	5.000 Level 2	10.000 Level 3	20.000 Level 4	40.000 Level 5	RRF	% RSD	
	30 Ethylbenzene	0.95208	1.34655	1.28996	1.11107	0.89939	1.11981	17.701	
	31 Xylene (m,p)	0.34373	0.48079	0.46021	0.41308	0.35296	0.41015	15.023	
	32 Styrene	0.33002	0.64833	0.63830	0.58245	0.50900	0.54162	24.115	
M	33 Xylene (total)	1.00436	1.43116	1.37826	1.23588	1.05526	1.22098	15.514	
	34 1,1,2,2-Tetrachloroethane	0.51050	0.87043	0.80318	0.68820	0.55759	0.68598	22.470	
	35 Xylene (o)	0.31690	0.46959	0.45784	0.40972	0.34935	0.40068	16.626	
	36 1,3,5-Trimethylbenzene	0.48422	1.12723	1.06991	0.94417	0.77653	0.88041	29.436	
	37 1,2,4-Trimethylbenzene	0.56303	1.11027	1.06653	0.93928	0.78325	0.89247	25.079	
	38 1,3-Dichlorobenzene	0.39660	0.76778	0.75683	0.65522	0.52997	0.62128	25.425	
	39 1,4-Dichlorobenzene	0.48113	0.74763	0.72556	0.65990	0.58063	0.63897	17.155	
	40 1,2-Dichlorobenzene	0.28076	0.65497	0.64794	0.58244	0.48988	0.53120	29.164	
	41 1,2,4-Trichlorobenzene	0.15449	0.18118	0.22827	0.24711	0.24485	0.21118	19.567	
	42 Hexachlorobutadiene	0.08203	0.27195	0.28351	0.26619	0.23444	0.22762	36.637	<-

FORM 7
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: STL BURLINGTON Contract: 20031

La` Code: STLV Case No.: 20031 SAS No.: SDG No.: 79442

Instrument ID: W Calibration Date: 08/22/00 Time: 1012

Lab File ID: CB010N Init. Calib. Date(s): 07/10/00 07/10/00

Heated Purge: (Y/N) N Init. Calib. Times: 1021 1337

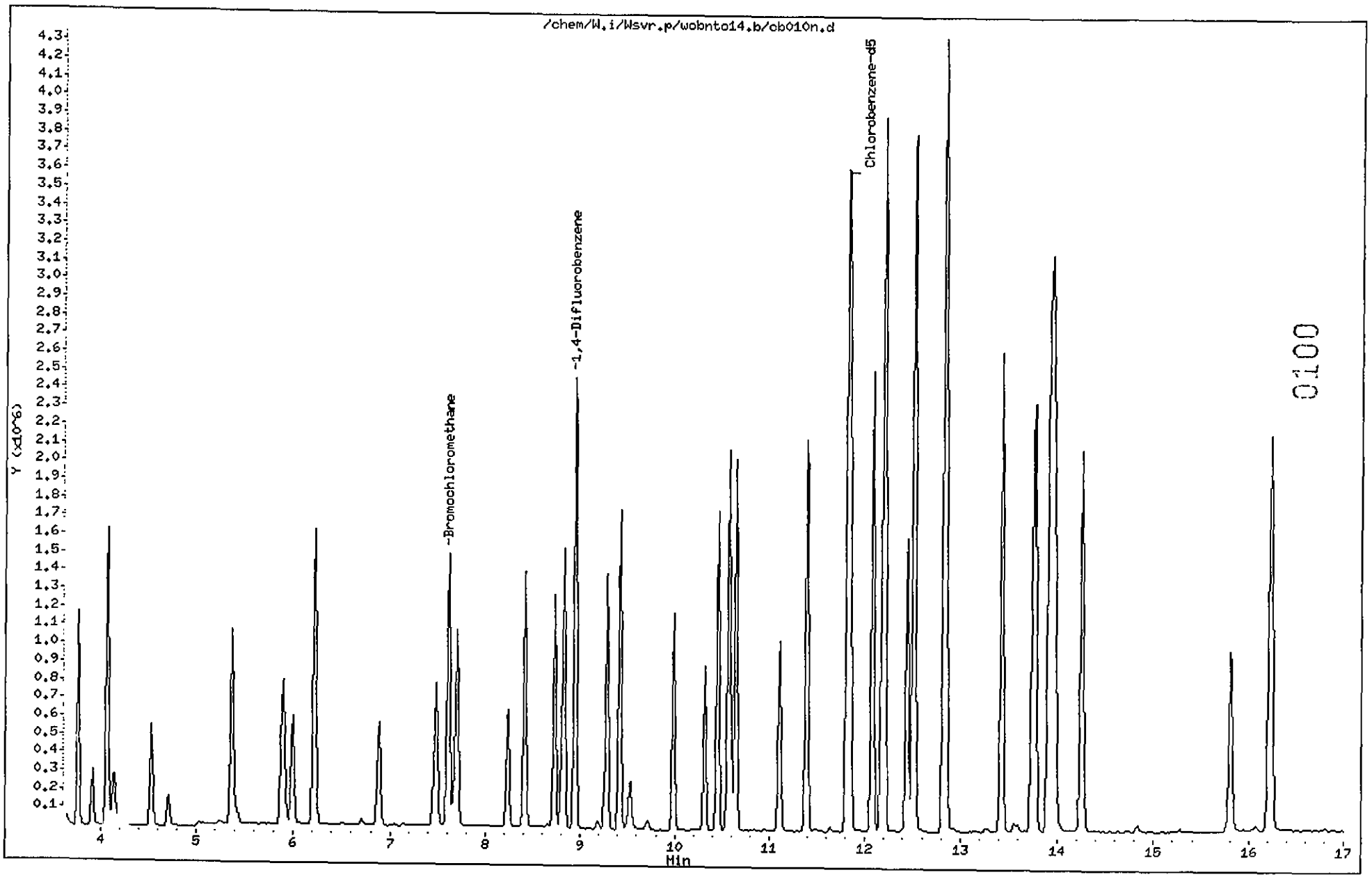
GC Column: DB-1 ID: 0.35 (mm)

COMPOUND	$\overline{RRF}$	RRF10	MIN RRF	%D	MAX %D
Chloromethane	0.725	0.622	0.1	14.2	30.0
Vinyl Chloride	0.783	0.690	0.01	11.9	30.0
Bromomethane	1.011	0.846	0.01	16.3	30.0
Chloroethane	0.458	0.401	0.01	12.4	30.0
Trichlorofluoromethane	2.588	2.122	0.01	18.0	30.0
Methylene Chloride	1.168	0.871	0.01	25.4	30.0
1,1-Dichloroethane	1.883	1.475	0.1	21.7	30.0
Chloroform	2.399	1.918	0.01	20.0	30.0
1,1,1-Trichloroethane	2.294	1.848	0.01	19.4	30.0
Carbon Tetrachloride	0.497	0.406	0.01	18.3	30.0
Benzene	0.685	0.516	0.01	24.7	30.0
1,2-Dichloroethane	1.682	1.309	0.01	22.2	30.0
Trichloroethene	0.315	0.268	0.01	14.9	30.0
1,2-Dichloropropane	0.262	0.225	0.01	14.1	30.0
cis-1,3-Dichloropropene	0.410	0.325	0.01	20.7	30.0
Toluene	0.501	0.402	0.01	19.8	30.0
trans-1,3-Dichloropropene	0.320	0.231	0.01	27.8	30.0
1,1,2-Trichloroethane	0.273	0.236	0.01	13.6	30.0
Tetrachloroethene	0.374	0.299	0.01	20.0	30.0
Chlorobenzene	0.648	0.521	0.3	19.6	30.0
Ethylbenzene	1.120	0.906	0.01	19.1	30.0
Xylene (total)	1.221	0.970	0.01	20.6	30.0
Styrene	0.541	0.429	0.01	20.7	30.0
Xylene (m,p)	0.410	0.324	0.01	21.0	30.0
Xylene (o)	0.401	0.322	0.01	19.7	30.0
1,1,2,2-Tetrachloroethane	0.686	0.575	0.01	16.2	30.0
1,3-Dichlorobenzene	0.621	0.483	0.01	22.2	30.0
1,4-Dichlorobenzene	0.639	0.572	0.01	10.5	30.0
1,2-Dichlorobenzene	0.531	0.464	0.01	12.6	30.0

Data File: /chem/W.i/Wsvr.p/wcbnto14.b/cb010n.d
Date : 22-AUG-2000 10:12
Client ID: ASTD010
Sample Info: ASTD010;ASTD010
Purge Volume: 200.0
Column phase: DB-1

Instrument: W.i

Operator: GMM
Column diameter: 0.35



STL Burlington

AIR TOXICS QUANTITATION REPORT

Data file : /chem/W.i/Wsvr.p/wcbnto14.b/cb010n.d
Lab Smp Id: ASTD010 Client Smp ID: ASTD010
Inj Date : 22-AUG-2000 10:12
Operator : GMM Inst ID: W.i
Smp Info : ASTD010;ASTD010
Misc Info :
Comment :
Method : /chem/W.i/Wsvr.p/wcbnto14.b/ato14.m
Meth Date : 30-Aug-2000 16:03 mim Quant Type: ISTD
Cal Date : 10-JUL-2000 13:37 Cal File: cb0005i2.d
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ACCANA.sub
Target Version: 3.50
Processing Host: chemsvr4

Concentration Formula: Amt * DF * X* Uf/Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
X	200.00000	method volume factor
Uf	1.00000	ng unit correction factor
Vo	200.00000	Sample Volume purged (mL)

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	AMOUNTS ON-COL (ppbv)
	2 Chloromethane	50	3.925	3.925	(0.515)	295730	10.0000	8.6
	4 Vinyl Chloride	62	4.156	4.156	(0.545)	328144	10.0000	8.8
	5 Bromomethane	94	4.531	4.531	(0.594)	402266	10.0000	8.4
	6 Chloroethane	64	4.718	4.718	(0.619)	190457	10.0000	8.7(M)
	7 Trichlorofluoromethane	101	5.375	5.375	(0.705)	1008759	10.0000	8.2
	9 Methylene Chloride	49	5.997	5.997	(0.787)	413953	10.0000	7.4
	11 1,1-Dichloroethane	63	6.892	6.892	(0.904)	701215	10.0000	7.8
*	13 Bromochloromethane	128	7.621	7.621	(1.000)	475369	10.0000	
	14 Chloroform	83	7.696	7.696	(1.010)	912025	10.0000	8.0
	15 1,2-Dichloroethane	62	8.243	8.243	(1.082)	622487	10.0000	7.8
	16 1,1,1-Trichloroethane	97	8.410	8.410	(1.104)	878680	10.0000	8.0
	17 Benzene	78	8.728	8.728	(0.975)	1151725	10.0000	7.5
	18 Carbon Tetrachloride	117	8.819	8.819	(0.985)	906718	10.0000	8.2
*	19 1,4-Difluorobenzene	114	8.956	8.956	(1.000)	2230981	10.0000	

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	AMOUNTS ON-COL (ppbv)
	20 1,2-Dichloropropane	63	9.275	9.275	(1.036)	502884	10.0000	8.6
	21 Trichloroethene	95	9.427	9.427	(1.053)	597605	10.0000	8.5
	22 cis-1,3-Dichloropropene	75	9.988	9.988	(1.115)	725047	10.0000	7.9
	23 trans-1,3-Dichloropropene	75	10.322	10.322	(1.153)	515803	10.0000	7.2
	24 1,1,2-Trichloroethane	83	10.458	10.458	(1.168)	526431	10.0000	8.6
	25 Toluene	92	10.641	10.641	(0.901)	993692	10.0000	8.0
	27 Tetrachloroethene	166	11.399	11.399	(0.965)	738766	10.0000	8.0
*	28 Chlorobenzene-d5	117	11.809	11.809	(1.000)	2473950	10.0000	
	29 Chlorobenzene	112	11.839	11.839	(1.003)	1288523	10.0000	8.0
	30 Ethylbenzene	91	12.082	12.082	(1.023)	2241658	10.0000	8.1
	31 Xylene (m,p)	106	12.188	12.188	(1.032)	1604097	20.0000	16
	32 Styrene	104	12.446	12.446	(1.054)	1061888	10.0000	7.9
M	33 Xylene (total)	106				2399866	10.0000	24
	34 1,1,2,2-Tetrachloroethane	83	12.507	12.507	(1.059)	1422324	10.0000	8.4
	35 Xylene (o)	106	12.522	12.522	(1.060)	795769	10.0000	8.0
	38 1,3-Dichlorobenzene	146	13.919	13.919	(1.179)	1194732	10.0000	7.8
	39 1,4-Dichlorobenzene	146	13.964	13.964	(1.182)	1415836	10.0000	9.0
	40 1,2-Dichlorobenzene	146	14.252	14.252	(1.207)	1147229	10.0000	8.7

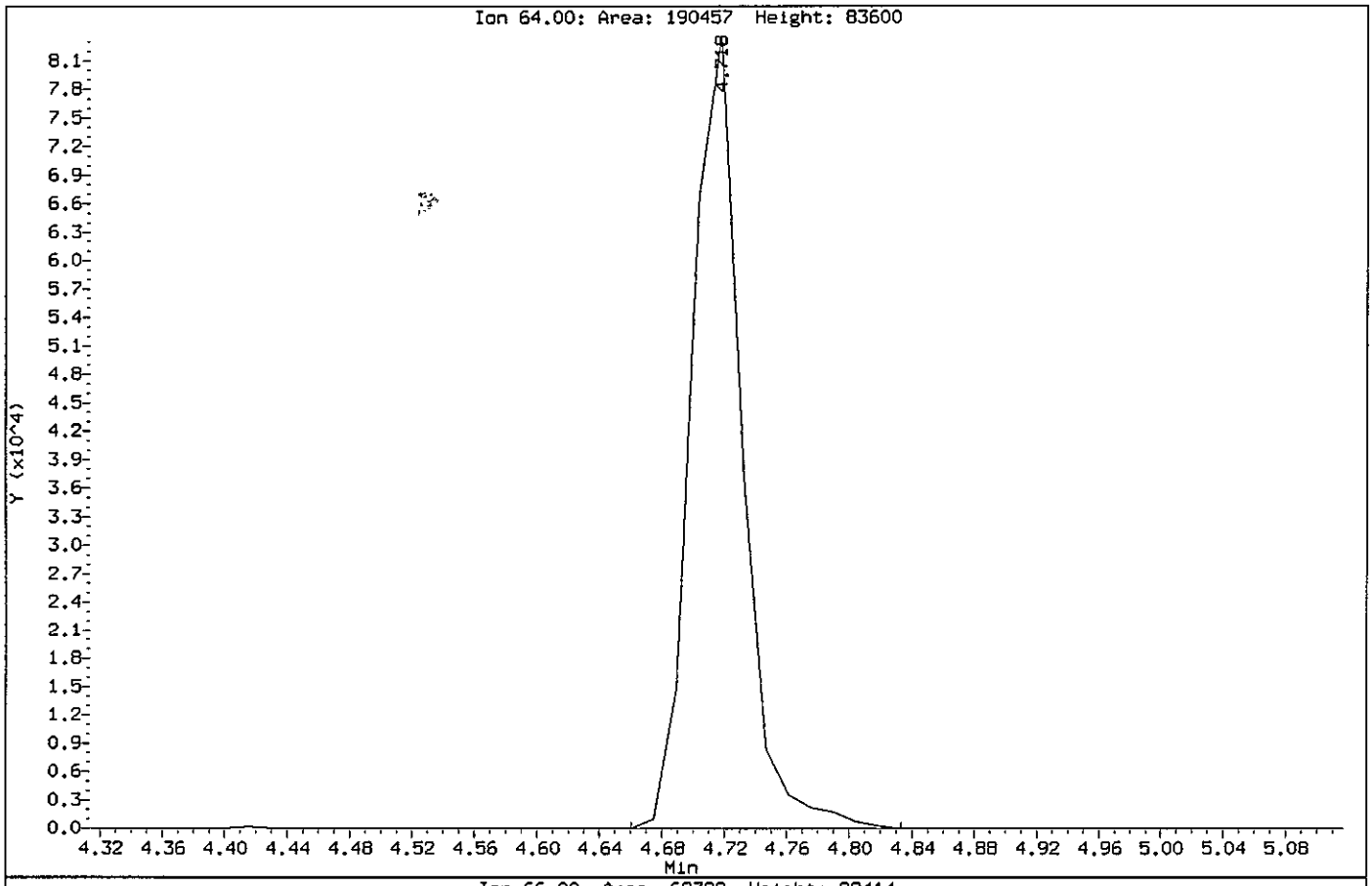
QC Flag Legend

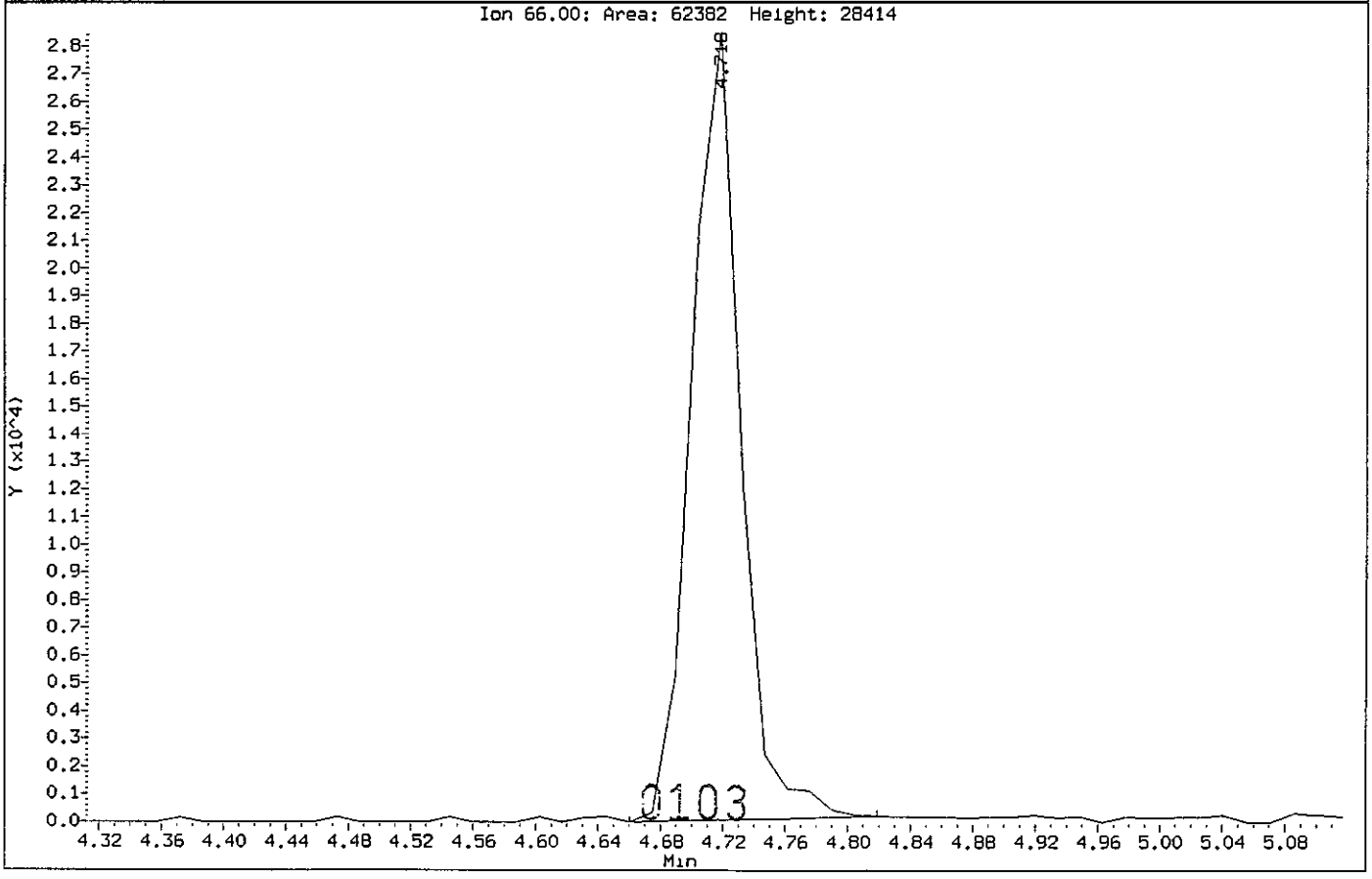
M - Compound response manually integrated.

MJM 5/31/00

Data File: /chem/W.i/Wsvr.p/wcbnto14.b/cb010n.d
Injection Date: 22-AUG-2000 10:12
Instrument: W.i
Client Sample ID: ASTD010

Compound: Chloroethane
CAS Number: 75-00-3





STL Burlington

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: W.i
Lab File ID: cb010n.d
Analysis Type: AIR
Lab Sample ID: ASTD010
Method: /chem/W.i/Wsvr.p/wcbnto14.b/ato14.m

Injection Date: 22-AUG-2000 10:12
Init. Cal. Date(s): 10-JUL-2000 10-JUL-2000
Init. Cal. Times: 10:21 13:37
Quant Type: ISTD

	COMPOUND	RRF / AMOUNT	RF10	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
	2 Chloromethane	0.72485	0.62211	0.100	14.17412	30.00000	Averaged
	4 Vinyl Chloride	0.78332	0.69029	0.010	11.87604	30.00000	Averaged
	5 Bromomethane	1.01067	0.84622	0.010	16.27190	30.00000	Averaged
	6 Chloroethane	0.45802	0.40065	0.010	12.52497	30.00000	Averaged
	7 Trichlorofluoromethane	2.58808	2.12205	0.010	18.00649	30.00000	Averaged
	9 Methylene Chloride	1.16812	0.87080	0.010	25.45255	30.00000	Averaged
	11 1,1-Dichloroethane	1.88295	1.47510	0.100	21.66016	30.00000	Averaged
	14 Chloroform	2.39904	1.91856	0.010	20.02803	30.00000	Averaged
	15 1,2-Dichloroethane	1.68251	1.30948	0.010	22.17079	30.00000	Averaged
	16 1,1,1-Trichloroethane	2.29408	1.84842	0.010	19.42658	30.00000	Averaged
	17 Benzene	0.68454	0.51624	0.010	24.58572	30.00000	Averaged
	18 Carbon Tetrachloride	0.49735	0.40642	0.010	18.28223	30.00000	Averaged
	20 1,2-Dichloropropane	0.26201	0.22541	0.010	13.96790	30.00000	Averaged
	21 Trichloroethene	0.31497	0.26787	0.010	14.95474	30.00000	Averaged
	22 cis-1,3-Dichloropropene	0.41034	0.32499	0.010	20.80066	30.00000	Averaged
	23 trans-1,3-Dichloropropene	0.31964	0.23120	0.010	27.66886	30.00000	Averaged
	24 1,1,2-Trichloroethane	0.27367	0.23596	0.010	13.77912	30.00000	Averaged
	25 Toluene	0.50110	0.40166	0.010	19.84423	30.00000	Averaged
	27 Tetrachloroethene	0.37442	0.29862	0.010	20.24438	30.00000	Averaged
	29 Chlorobenzene	0.64767	0.52084	0.300	19.58363	30.00000	Averaged
	30 Ethylbenzene	1.11981	0.90610	0.010	19.08434	30.00000	Averaged
	31 Xylene (m,p)	0.41015	0.32420	0.010	20.95697	30.00000	Averaged
	32 Styrene	0.54163	0.42923	0.010	20.75188	30.00000	Averaged
M	33 Xylene (total)	1.22099	0.97005	0.010	20.55156	30.00000	Averaged
	34 1,1,2,2-Tetrachloroethane	0.68598	0.57492	0.010	16.18983	30.00000	Averaged
	35 Xylene (o)	0.40068	0.32166	0.010	19.72157	30.00000	Averaged
	38 1,3-Dichlorobenzene	0.62128	0.48292	0.010	22.26920	30.00000	Averaged
	39 1,4 Dichlorobenzene	0.63897	0.57230	0.010	10.43461	30.00000	Averaged
	40 1,2-Dichlorobenzene	0.53120	0.46372	0.010	12.70262	30.00000	Averaged

Severn Trent Laboratories, Inc.

METHOD TO-14A
VOLATILE ORGANIC ANALYSIS

RAW QC DATA

Data File: /chem/W.i/Wsvr.p/wcbto14.b/cb001p.d

Date : 10-JUL-2000 08:31

Client ID: WBFB001

Instrument: W.i

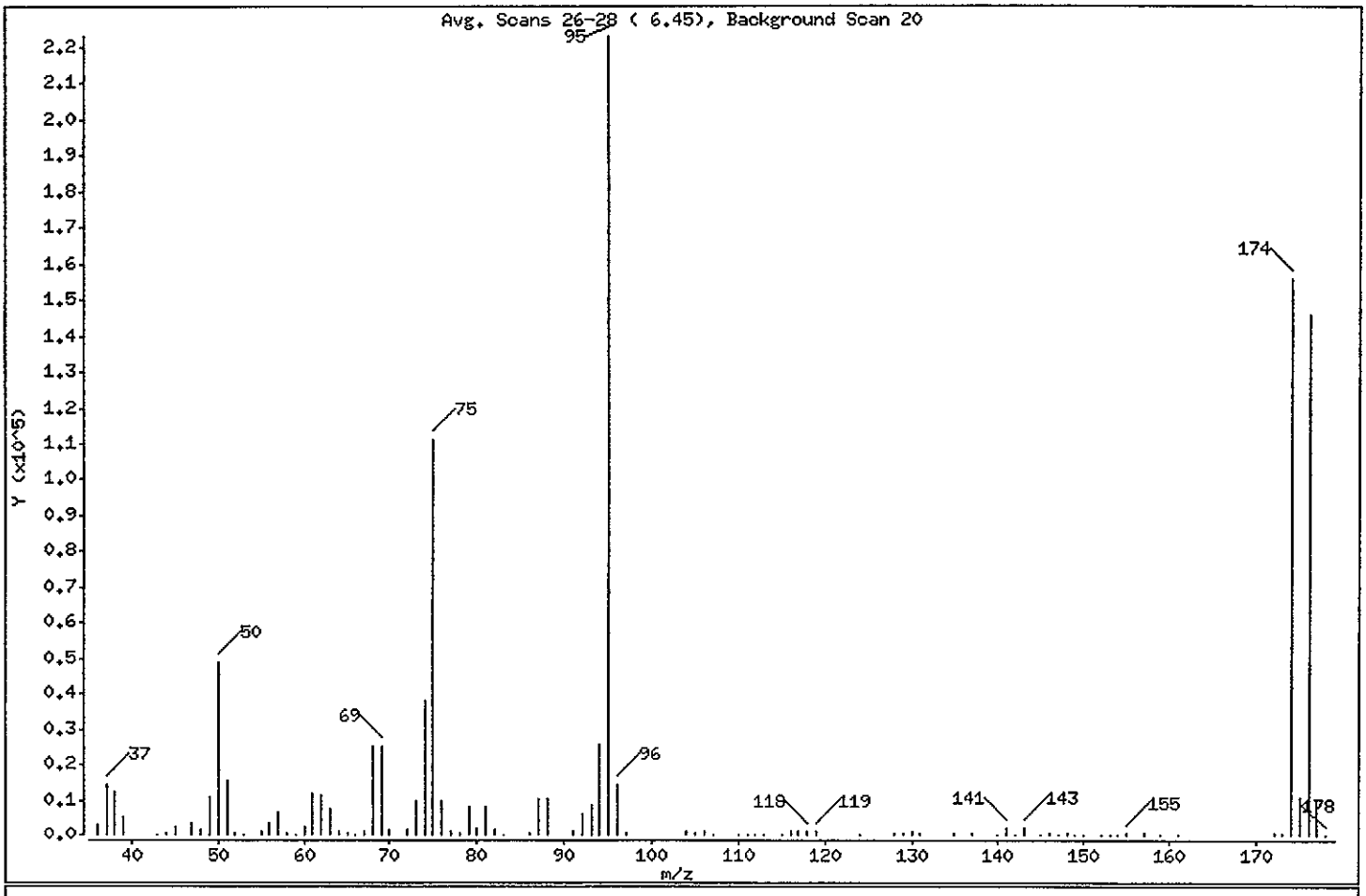
Sample Info: WBFB001

Operator: GHM

Column phase: DB-1

Column diameter: 0.32

$ 1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	8.00 - 40.00% of mass 95	21.96
75	30.00 - 66.00% of mass 95	49.76
96	5.00 - 9.00% of mass 95	6.55
173	Less than 2.00% of mass 174	0.15 (0.21)
174	50.00 - 120.00% of mass 95	69.80
175	4.00 - 9.00% of mass 174	4.90 (7.01)
176	93.00 - 101.00% of mass 174	65.49 (93.83)
177	5.00 - 9.00% of mass 176	4.48 (6.84)

Date : 10-JUL-2000 08:31

Client ID: WBFB001 Instrument: W.i

Sample Info: WBFB001

Operator: GMH

Column phase: DB-1 Column diameter: 0.32

Data File: cb001p.d

Spectrum: Avg. Scans 26-28 (6.45), Background Scan 20

Location of Maximum: 95.00

Number of points: 98

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	2861	64.00	785	94.00	25552	141.00	1851
37.00	14383	65.00	499	95.00	223104	142.00	118
38.00	12115	66.00	150	96.00	14620	143.00	1934
39.00	5050	67.00	782	97.00	346	145.00	111
42.00	12	68.00	25048	104.00	959	146.00	346
43.00	154	69.00	25400	105.00	317	147.00	149
44.00	580	70.00	1684	106.00	903	148.00	440
45.00	2434	72.00	1298	107.00	233	149.00	101
46.00	223	73.00	9910	110.00	143	150.00	195
47.00	3418	74.00	38120	111.00	149	152.00	61
48.00	1601	75.00	111016	112.00	56	153.00	68
49.00	10873	76.00	9914	113.00	223	154.00	57
50.00	49000	77.00	1231	115.00	181	155.00	367
51.00	15585	78.00	723	116.00	806	157.00	334
52.00	683	79.00	7993	117.00	844	159.00	219
53.00	73	80.00	2197	118.00	908	161.00	232
55.00	774	81.00	8118	119.00	1083	172.00	444
56.00	3538	82.00	1377	124.00	66	173.00	326
57.00	6819	83.00	214	128.00	768	174.00	155712
58.00	319	86.00	284	129.00	331	175.00	10922
59.00	51	87.00	10473	130.00	889	176.00	146112
60.00	2393	88.00	10156	131.00	349	177.00	9988
61.00	11691	91.00	792	135.00	354	178.00	233
62.00	11071	92.00	6074	137.00	396		
63.00	7622	93.00	8858	140.00	61		

Data File: /chem/W.i/Wsvr.p/wcbto14.b/cb001p.d

Date : 10-JUL-2000 08:31

Client ID: WBFB001

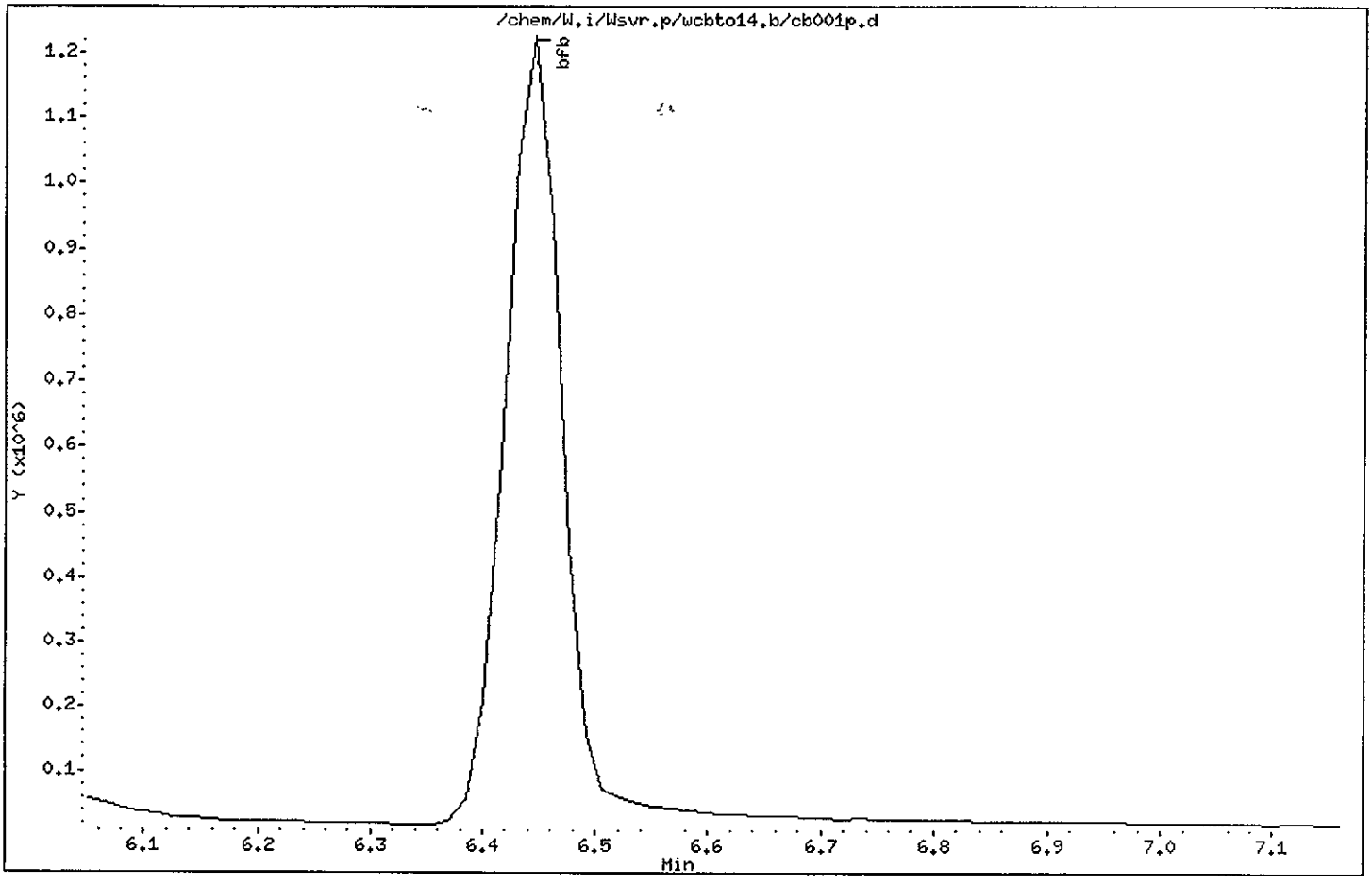
Instrument: W.i

Sample Info: WBFB001

Operator: GMH

Column phase: DB-1

Column diameter: 0.32



Data File: /chem/W.i/Wsvr.p/ucbnto14.b/cb014p.d

Date : 22-AUG-2000 09:52

Client ID: WBFB014

Instrument: W.1

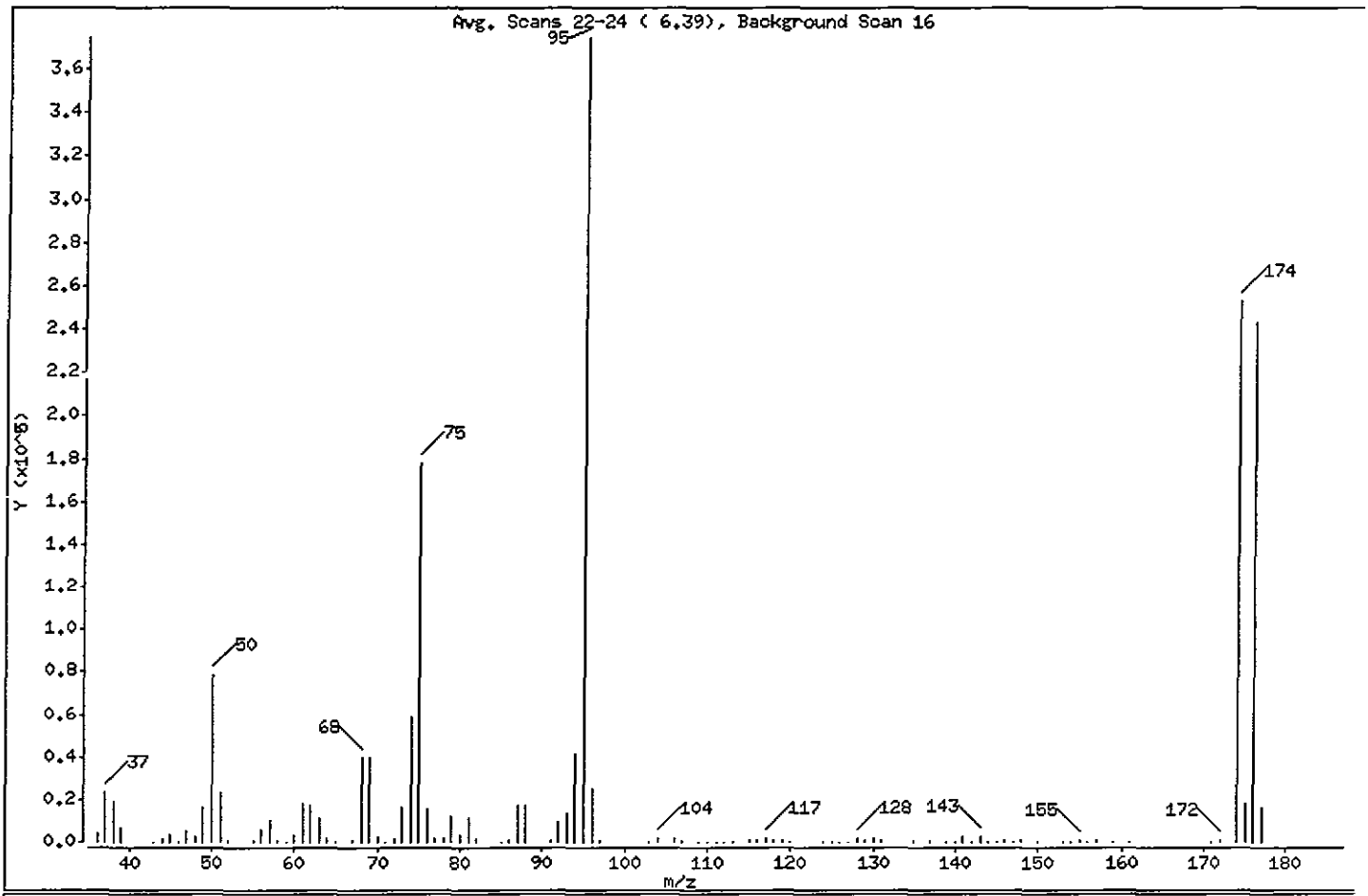
Sample Info: WBFB014

Operator: GMM

Column phase: DB-1

Column diameter: 0.32

$ 1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	8.00 - 40.00% of mass 95	21.07
75	30.00 - 66.00% of mass 95	47.51
96	5.00 - 9.00% of mass 95	6.79
173	Less than 2.00% of mass 174	0.00 (0.00)
174	50.00 - 120.00% of mass 95	67.57
175	4.00 - 9.00% of mass 174	4.75 (7.03)
176	93.00 - 101.00% of mass 174	65.05 (96.26)
177	5.00 - 9.00% of mass 176	4.34 (6.67)

Date : 22-AUG-2000 09:52

Client ID: WBFB014 Instrument: W.i

Sample Info: WBFB014

Operator: GMM

Column phase: DB-1 Column diameter: 0.32

Data File: cb014p.d
Spectrum: Avg. Scans 22-24 (6.39), Background Scan 16
Location of Maximum: 95.00
Number of points: 107

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	4327	69.00	39672	105.00	384	140.00	229
37.00	23072	70.00	2503	106.00	1581	141.00	2875
38.00	18720	71.00	188	107.00	454	142.00	334
39.00	6986	72.00	1792	109.00	51	143.00	2881
43.00	112	73.00	16045	110.00	236	144.00	227
44.00	1439	74.00	58488	111.00	302	145.00	372
45.00	3750	75.00	177984	112.00	320	146.00	478
46.00	297	76.00	15277	113.00	52	147.00	152
47.00	5386	77.00	1918	115.00	497	148.00	826
48.00	2707	78.00	1314	116.00	1230	149.00	50
49.00	16544	79.00	11657	117.00	1737	150.00	344
50.00	78952	80.00	3444	118.00	951	153.00	206
51.00	23648	81.00	11457	119.00	1283	154.00	249
52.00	1072	82.00	1636	120.00	105	155.00	777
55.00	795	85.00	118	123.00	137	156.00	53
56.00	5947	86.00	474	124.00	249	157.00	452
57.00	9973	87.00	17376	125.00	56	159.00	408
58.00	567	88.00	16872	126.00	57	161.00	294
59.00	83	91.00	1064	127.00	138	171.00	59
60.00	3436	92.00	9425	128.00	1390	172.00	500
61.00	17936	93.00	14041	129.00	574	174.00	253184
62.00	17120	94.00	41232	130.00	1316	175.00	17800
63.00	11517	95.00	374720	131.00	446	176.00	243712
64.00	1333	96.00	25424	135.00	561	177.00	16269
65.00	298	97.00	733	136.00	53	178.00	385
67.00	915	103.00	150	137.00	532	186.00	54
68.00	40008	104.00	1668	139.00	84		

Data File: /chem/W.i/Wsvr.p/wcbnto14.b/cb014p.d

Date : 22-AUG-2000 09:52

Client ID: WBFB014

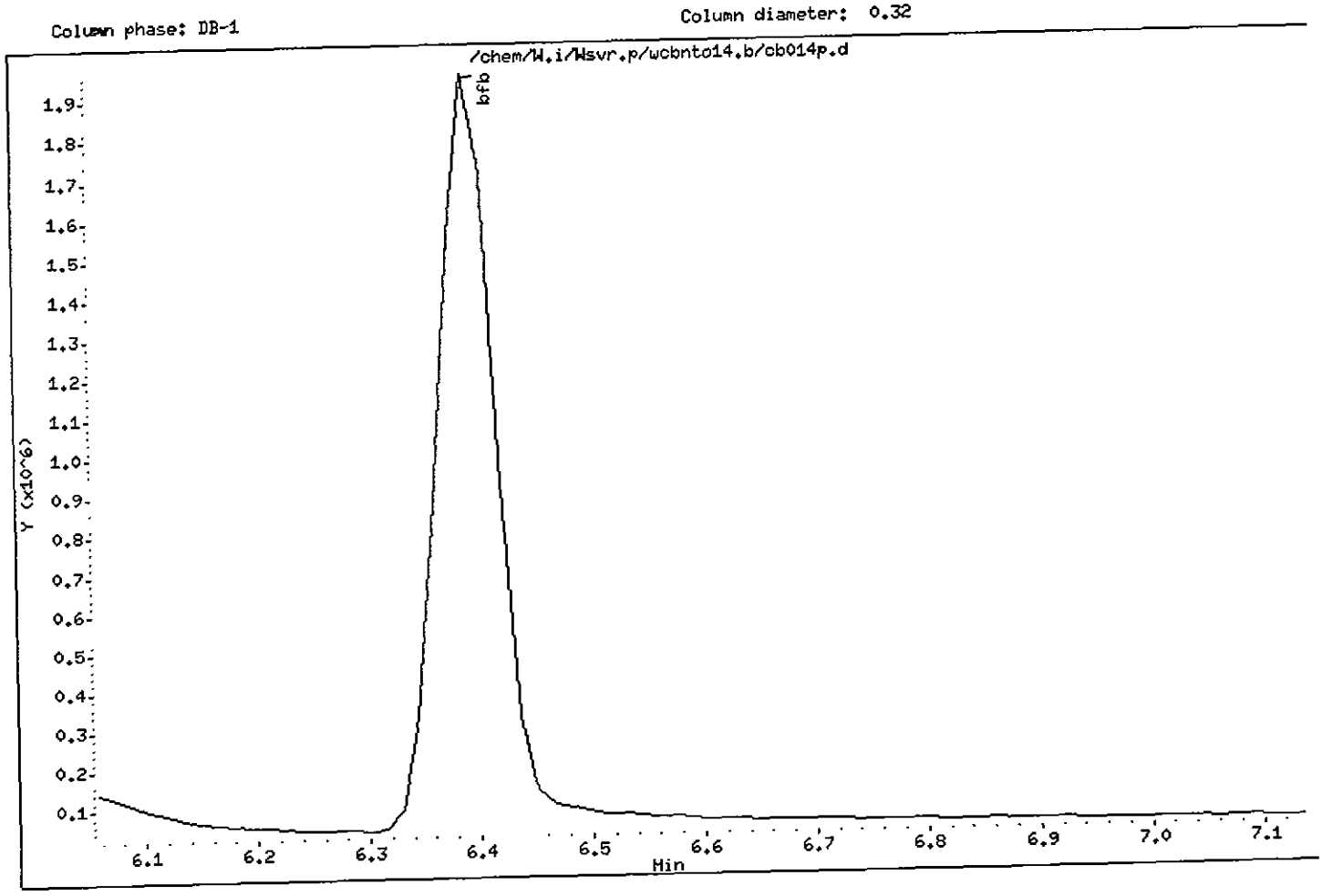
Sample Info: WBFB014

Instrument: W.1

Operator: GMM

Column phase: DB-1

Column diameter: 0.32



FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ABLKU9

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STL /T Case No.: 20031 SAS No SDG No.: 79442

Matrix: (soil/water) AIR Lab Sample ID: ABLKU9

Sample wt/vol: 200 (g/mL) ML Lab File ID: CBB001N

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

% Moisture: not dec. _____ Date Analyzed: 08/22/00

GC Column: DB-1 ID: 0.35 (mm) Dilution Factor: 1.0

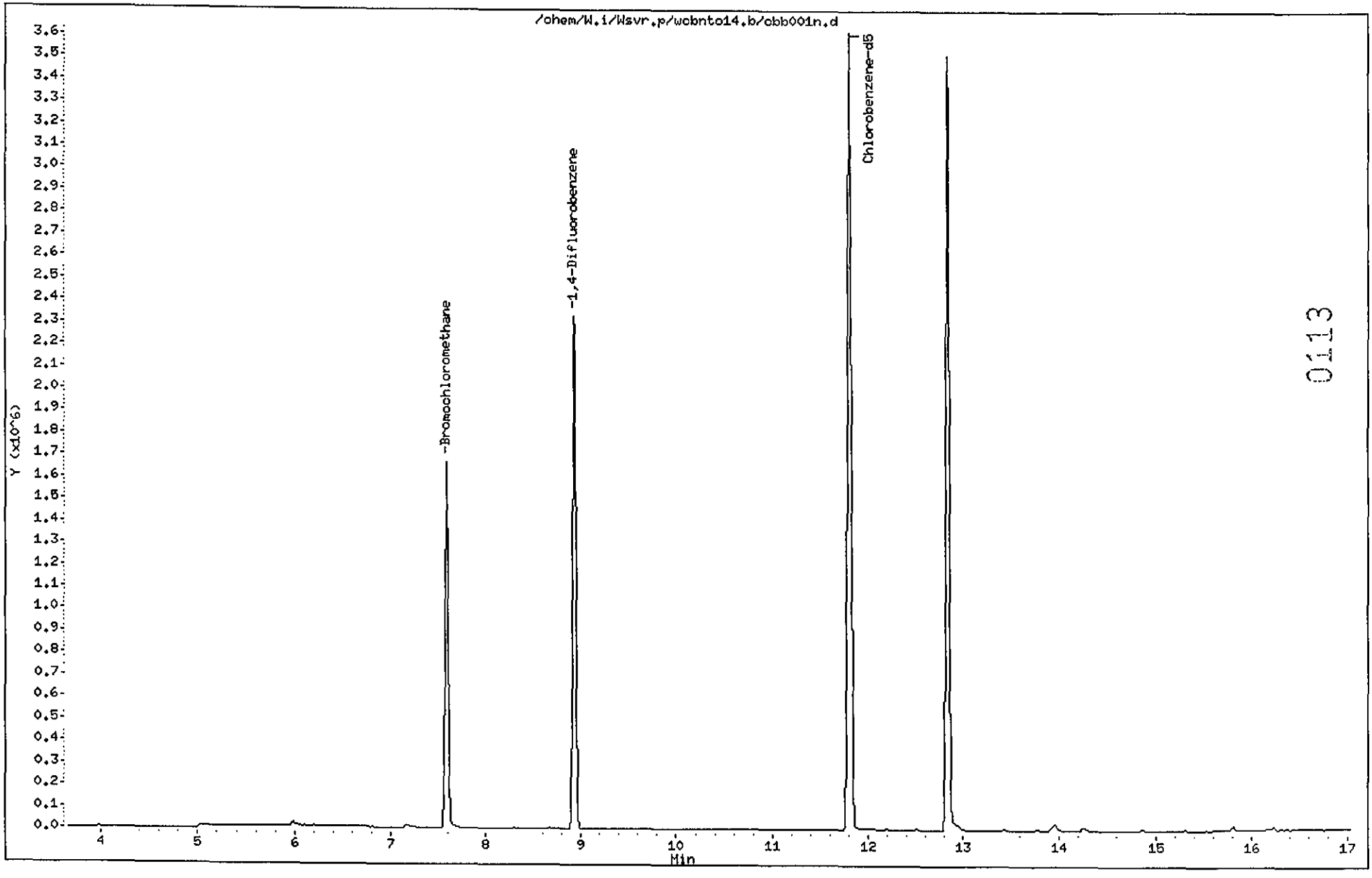
Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) PPBV	Q
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl Chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-09-2	Methylene Chloride	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
56-23-5	Carbon Tetrachloride	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-88-3	Toluene	0.50	U
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
1330-20-7	Xylene (total)	0.50	U
100-42-5	Styrene	0.50	U
1330-20-7	Xylene (m,p)	0.50	U
95-47-6	Xylene (o)	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U

Data File: /chem/W.i/Wsvr.p/wcbnto14.b/cbb001n.d
Date : 22-AUG-2000 11:24
Client ID: ABLKU9
Sample Info: ABLKU9;ABLKU9;0822U9
Purge Volume: 200.0
Column phase: DB-1

Instrument: W.i

Operator: GMM
Column diameter: 0.35



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AIR TOXICS QUANTITATION REPORT

Data file : /chem/W.i/Wsvr.p/wcbnto14.b/cbb001n.d
Lab Smp Id: ABLKU9 Client Smp ID: ABLKU9
Inj Date : 22-AUG-2000 11:24
Operator : GMM Inst ID: W.i
Smp Info : ABLKU9;ABLKU9;0822U9
Misc Info :
Comment :
Method : /chem/W.i/Wsvr.p/wcbnto14.b/ato14.m
Meth Date : 30-Aug-2000 16:03 mim Quant Type: ISTD
Cal Date : 10-JUL-2000 13:37 Cal File: cb0005i2.d
Als bottle: 1 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ACCANA.sub
Target Version: 3.50
Processing Host: chemsvr4

Concentration Formula: Amt * DF * X* Uf/Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
X	200.00000	method volume factor
Uf	1.00000	ng unit correction factor
Vo	200.00000	Sample Volume purged (mL)

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)
	2 Chloromethane	50	Compound Not Detected.					
	4 Vinyl Chloride	62	Compound Not Detected.					
	5 Bromomethane	94	Compound Not Detected.					
	6 Chloroethane	64	Compound Not Detected.					
	7 Trichlorofluoromethane	101	Compound Not Detected.					
	9 Methylene Chloride	49	Compound Not Detected.					
	11 1,1-Dichloroethane	63	Compound Not Detected.					
*	13 Bromochloromethane	128	7.590	7.621	(1.000)	495688	10.0000	
	14 Chloroform	83	Compound Not Detected.					
	15 1,2-Dichloroethane	62	Compound Not Detected.					
	16 1,1,1-Trichloroethane	97	Compound Not Detected.					
	17 Benzene	78	Compound Not Detected.					
	18 Carbon Tetrachloride	117	Compound Not Detected.					
*	19 1,4-Difluorobenzene	114	8.941	8.956	(1.000)	2329003	10.0000	
	20 1,2-Dichloropropane	63	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)
	21 Trichloroethene	95	Compound Not Detected.					
	22 cis-1,3-Dichloropropene	75	Compound Not Detected.					
	23 trans-1,3-Dichloropropene	75	Compound Not Detected.					
	24 1,1,2-Trichloroethane	83	Compound Not Detected.					
	25 Toluene	92	Compound Not Detected.					
	27 Tetrachloroethene	166	Compound Not Detected.					
*	28 Chlorobenzene-d5	117	11.809	11.809	(1.000)	2372753	10.0000	
	29 Chlorobenzene	112	Compound Not Detected.					
	30 Ethylbenzene	91	Compound Not Detected.					
	31 Xylene (m,p)	106	Compound Not Detected.					
	32 Styrene	104	Compound Not Detected.					
M	33 Xylene (total)	106	Compound Not Detected.					
	34 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					
	35 Xylene (o)	106	Compound Not Detected.					
	38 1,3-Dichlorobenzene	146	Compound Not Detected.					
	39 1,4-Dichlorobenzene	146	Compound Not Detected.					
	40 1,2-Dichlorobenzene	146	Compound Not Detected.					

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

STLVT SAMPLE NO.

ICV_LCS

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 79442

Matrix: (soil/water) AIR Lab Sample ID: ICV_LCS

Sample wt/vol: 200 (g/mL) ML Lab File ID: CB010Q

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

% Moisture: not dec. _____ Date Analyzed: 07/10/00

GC Column: DB-1 ID: 0.35 (mm) Dilution Factor: 1.0

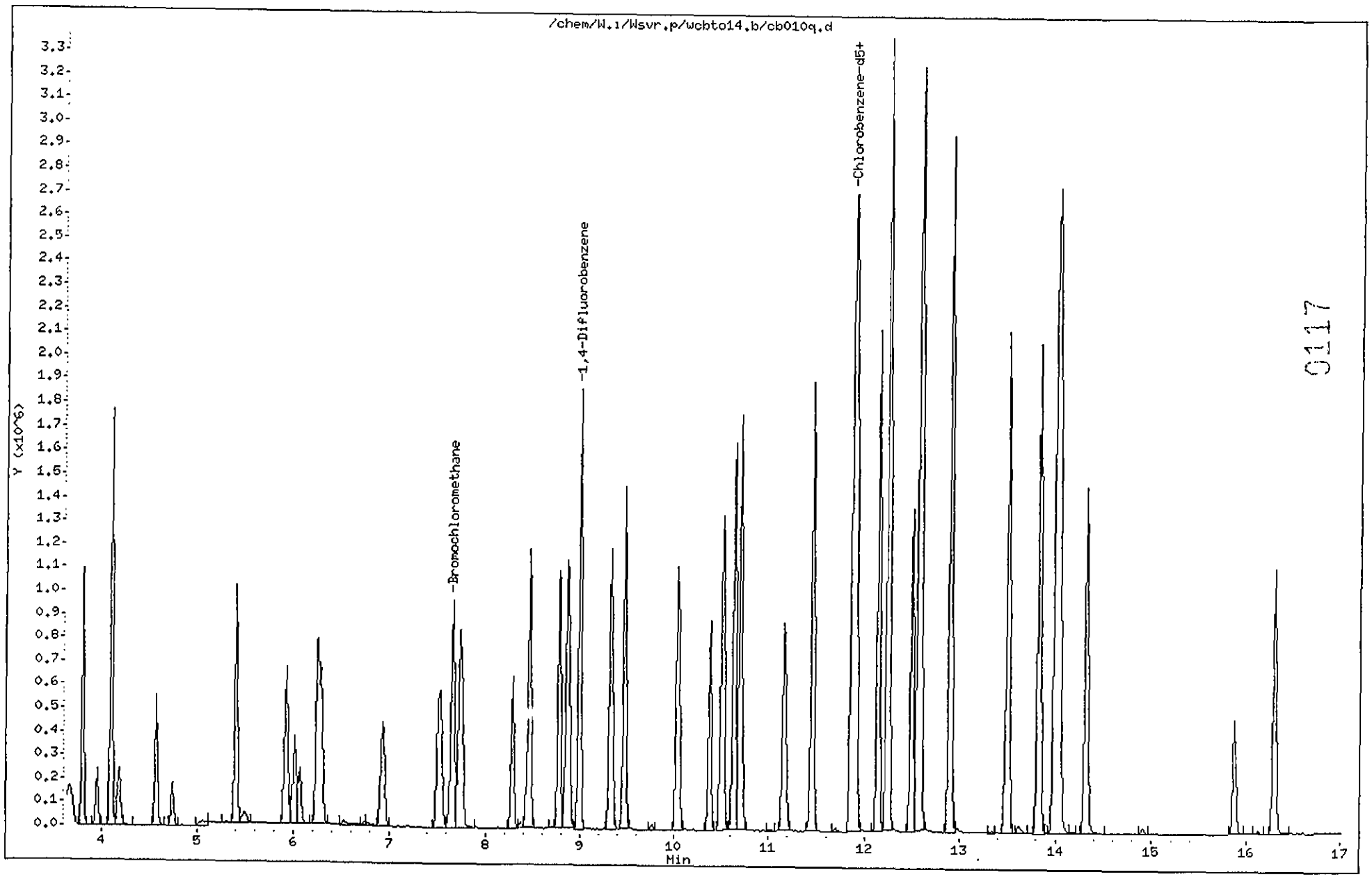
Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) PPBV	Q
74-87-3	Chloromethane	11	
75-01-4	Vinyl Chloride	11	
74-83-9	Bromomethane	10	
75-00-3	Chloroethane	11	
75-69-4	Trichlorofluoromethane	10	
75-09-2	Methylene Chloride	10	
75-34-3	1,1-Dichloroethane	11	
67-66-3	Chloroform	11	
71-55-6	1,1,1-Trichloroethane	11	
56-23-5	Carbon Tetrachloride	10	
71-43-2	Benzene	10	
107-06-2	1,2-Dichloroethane	10	
79-01-6	Trichloroethene	10	
78-87-5	1,2-Dichloropropane	10	
10061-01-5	cis-1,3-Dichloropropene	11	
108-88-3	Toluene	9.3	
10061-02-6	trans-1,3-Dichloropropene	11	
79-00-5	1,1,2-Trichloroethane	10	
127-18-4	Tetrachloroethene	9.2	
108-90-7	Chlorobenzene	9.0	
100-41-4	Ethylbenzene	9.4	
1330-20-7	Xylene (total)	28	
100-42-5	Styrene	8.8	
1330-20-7	Xylene (m,p)	18	
95-47-6	Xylene (o)	9.3	
79-34-5	1,1,2,2-Tetrachloroethane	9.3	
541-73-1	1,3-Dichlorobenzene	9.0	
106-46-7	1,4-Dichlorobenzene	8.0	
95-50-1	1,2-Dichlorobenzene	8.6	

Data File: /chem/W.i/Wsvr.p/wcbto14.b/cb010q.d
Date : 10-JUL-2000 14:18
Client ID: ICV_LCS
Sample : ICV_LCS
Purge V. l e: 200.0
Column phase: DB-1

Instrument: W.1

Operator: GMM
Column diameter: 0.35



STL Burlington

AIR TOXICS QUANTITATION REPORT

Data file : /chem/W.i/Wsvr.p/wcbto14.b/cb010q.d
Lab Smp Id: ICV_LCS Client Smp ID: ICV_LCS
Inj Date : 10-JUL-2000 14:18
Operator : GMM Inst ID: W.i
Smp Info : ICV_LCS
Misc Info :
Comment :
Method : /chem/W.i/Wsvr.p/wcbto14.b/ato14.m
Meth Date : 24-Jul-2000 14:59 cpc Quant Type: ISTD
Cal Date : 10-JUL-2000 13:37 Cal File: cb0005i2.d
Als bottle: 1 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50
Processing Host: chemsvr4

Concentration Formula: Amt * DF * X* Uf/Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
X	200.00000	method volume factor
Uf	1.00000	ng unit correction factor
Vo	200.00000	Sample Volume purged (mL)

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	FINAL (ppbv)
1	Dichlorodifluoromethane	85	3.809	3.798	(0.497)	929942	10.5230	10
2	Chloromethane	50	3.968	3.957	(0.518)	252641	10.6928	11
3	Dichlorotetrafluoroethane	85	4.112	4.101	(0.536)	959457	10.6463	11
4	Vinyl Chloride	62	4.199	4.188	(0.548)	283872	11.1176	11
5	Bromomethane	94	4.574	4.563	(0.597)	345487	10.4870	10
6	Chloroethane	64	4.747	4.750	(0.619)	162016	10.8519	11
7	Trichlorofluoromethane	101	5.405	5.406	(0.705)	842029	9.98110	10
8	1,1-Dichloroethene	96	5.921	5.922	(0.772)	265239	9.06600	9.1
9	Methylene Chloride	49	6.012	6 028	(0.784)	380686	9.99786	10
10	Freon TF	101	6.240	6 256	(0.814)	757471	10.7596	11
11	1,1-Dichloroethane	63	6.923	6.923	(0.903)	665983	10.8506	11
12	cis-1,2-Dichloroethene	61	7 530	7.530	(0.982)	509583	11.0498	11
* 13	Bromochloromethane	128	7.666	7.652	(1.000)	325966	10.0000	
14	Chloroform	83	7 742	7.743	(1.010)	841741	10.7639	11

	Compounds	ANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	FINAL (ppbv)
	15 1,2-Dichloroethane	62	8.288	8.274	(1.081)	572106	10.4315	10
	16 1,1,1-Trichloroethane	97	8.455	8.456	(1.103)	801047	10.7122	11
	17 Benzene	78	8.789	8.775	(0.976)	1128233	10.4389	10
	18 Carbon Tetrachloride	117	8.880	8.866	(0.986)	816917	10.4034	10
*	19 1,4-Difluorobenzene	114	9.002	9.002	(1.000)	1578858	10.0000	
	20 1,2-Dichloropropane	63	9.336	9.321	(1.037)	436205	10.5448	10
	21 Trichloroethene	95	9.472	9.473	(1.052)	523509	10.5273	10
	22 cis-1,3-Dichloropropene	75	10.034	10.034	(1.115)	723401	11.1658	11
	23 trans-1,3-Dichloropropene	75	10.383	10.368	(1.153)	567691	11.2488	11
	24 1,1,2-Trichloroethane	83	10.504	10.505	(1.167)	451050	10.4388	10
	25 Toluene	92	10.701	10.702	(0.902)	868870	9.33592	9.3
	26 1,2-Dibromoethane	107	11.157	11.157	(0.940)	797900	9.32034	9.3
	27 Tetrachloroethene	166	11.445	11.446	(0.964)	637647	9.16969	9.2
*	28 Chlorobenzene-d5	117	11.870	11.871	(1.000)	1857258	10.0000	
	29 Chlorobenzene	112	11.900	11.901	(1.003)	1092756	9.00123	9.0
	30 Ethylbenzene	91	12.143	12.144	(1.023)	1955270	9.40133	9.4
	31 Xylene (m,p)	106	12.249	12.250	(1.032)	1402693	18.4138	18
	32 Styrene	104	12.507	12.508	(1.054)	888598	8.83356	8.8
M	33 Xylene (total)	106				2096717	27.7401	28
	34 1,1,2,2-Tetrachloroethane	83	12.568	12.569	(1.059)	1190191	9.34187	9.3
	35 Xylene (o)	106	12.583	12.584	(1.060)	694024	9.32625	9.3
	36 1,3,5-Trimethylbenzene	105	13.494	13.494	(1.137)	1523215	9.31544	9.3
	37 1,2,4-Trimethylbenzene	105	13.828	13.828	(1.165)	1475493	8.90164	8.9
	38 1,3-Dichlorobenzene	146	13.979	13.980	(1.178)	1036147	8.97972	9.0
	39 1,4-Dichlorobenzene	146	14.025	14.041	(1.182)	952531	8.02649	8.0
	40 1,2-Dichlorobenzene	146	14.313	14.329	(1.206)	852240	8.63839	8.6
	41 1,2,4-Trichlorobenzene	180	15.876	15.877	(1.338)	205064	5.22830	5.2(R)
	42 Hexachlorobutadiene	225	16.301	16.302	(1.373)	264628	6.25960	6.2(R)

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

STL Burlington

RECOVERY REPORT

Client Name: Client SDG:
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: ICV_LCS Client Smp ID: ICV_LCS
Level: LOW Operator: GMM
Data Type: MS DATA SampleType: LCS
SpikeList File: all.spk Quant Type: ISTD
Sublist File: all.sub
Method File: /chem/W.i/Wsvr.p/wcbto14.b/ato14.m
Misc Info:

SPIKE	COMPOUND	CONC ADDED ppbv	CONC RECOVERED ppbv	% RECOVERED	LIMITS
1	Dichlorodifluorome	10	10	105.23	70-130
2	Chloromethane	10	11	106.93	70-130
3	Dichlorotetrafluor	10	11	106.46	70-130
4	Vinyl Chloride	10	11	111.18	70-130
5	Bromomethane	10	10	104.87	70-130
6	Chloroethane	10	11	108.52	70-130
7	Trichlorofluoromet	10	10	99.81	70-130
8	1,1-Dichloroethene	10	9.1	90.66	70-130
9	Methylene Chloride	10	10	99.98	70-130
10	Freon TF	10	11	107.60	70-130
11	1,1-Dichloroethane	10	11	108.51	70-130
12	cis-1,2-Dichloroet	10	11	110.50	70-130
14	Chloroform	10	11	107.64	70-130
15	1,2-Dichloroethane	10	10	104.32	70-130
16	1,1,1-Trichloroeth	10	11	107.12	70-130
17	Benzene	10	10	104.39	70-130
18	Carbon Tetrachlori	10	10	104.03	70-130
20	1,2-Dichloropropan	10	10	105.45	70-130
21	Trichloroethene	10	10	105.27	70-130
22	cis-1,3-Dichloropr	10	11	111.66	70-130
23	trans-1,3-Dichloro	10	11	112.49	70-130
24	1,1,2-Trichloroeth	10	10	104.39	70-130
25	Toluene	10	9.3	93.36	70-130
26	1,2-Dibromoethane	10	9.3	93.20	70-130
27	Tetrachloroethene	10	9.2	91.70	70-130
29	Chlorobenzene	10	9.0	90.01	70-130
30	Ethylbenzene	10	9.4	94.01	70-130
31	Xylene (m,p)	20	18	92.07	70-130
32	Styrene	10	8.8	88.34	70-130
34	1,1,2,2-Tetrachlor	10	9.3	93.42	70-130
35	Xylene (o)	10	9.3	93.26	70-130
36	1,3,5-Trimethylben	10	9.3	93.15	70-130
37	1,2,4-Trimethylben	10	8.9	89.02	70-130

SPIKE COMPOUND	CONC ADDED ppbv	CONC RECOVERED ppbv	% RECOVERED	LIMITS
38 1,3-Dichlorobenzen	10	9.0	89.80	70-130
39 1,4-Dichlorobenzen	10	8.0	80.26	70-130
40 1,2-Dichlorobenzen	10	8.6	86.38	70-130
41 1,2,4-Trichloroben	10	5.2	52.28*	70-130
42 Hexachlorobutadien	10	6.2	62.60*	70-130

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

U9_LCS

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 79442

Matrix: (soil/water) AIR Lab Sample ID: U9_LCS

Sample wt/vol: 200 (g/mL) ML Lab File ID: CB010NQ

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

% Moisture: not dec. _____ Date Analyzed: 08/22/00

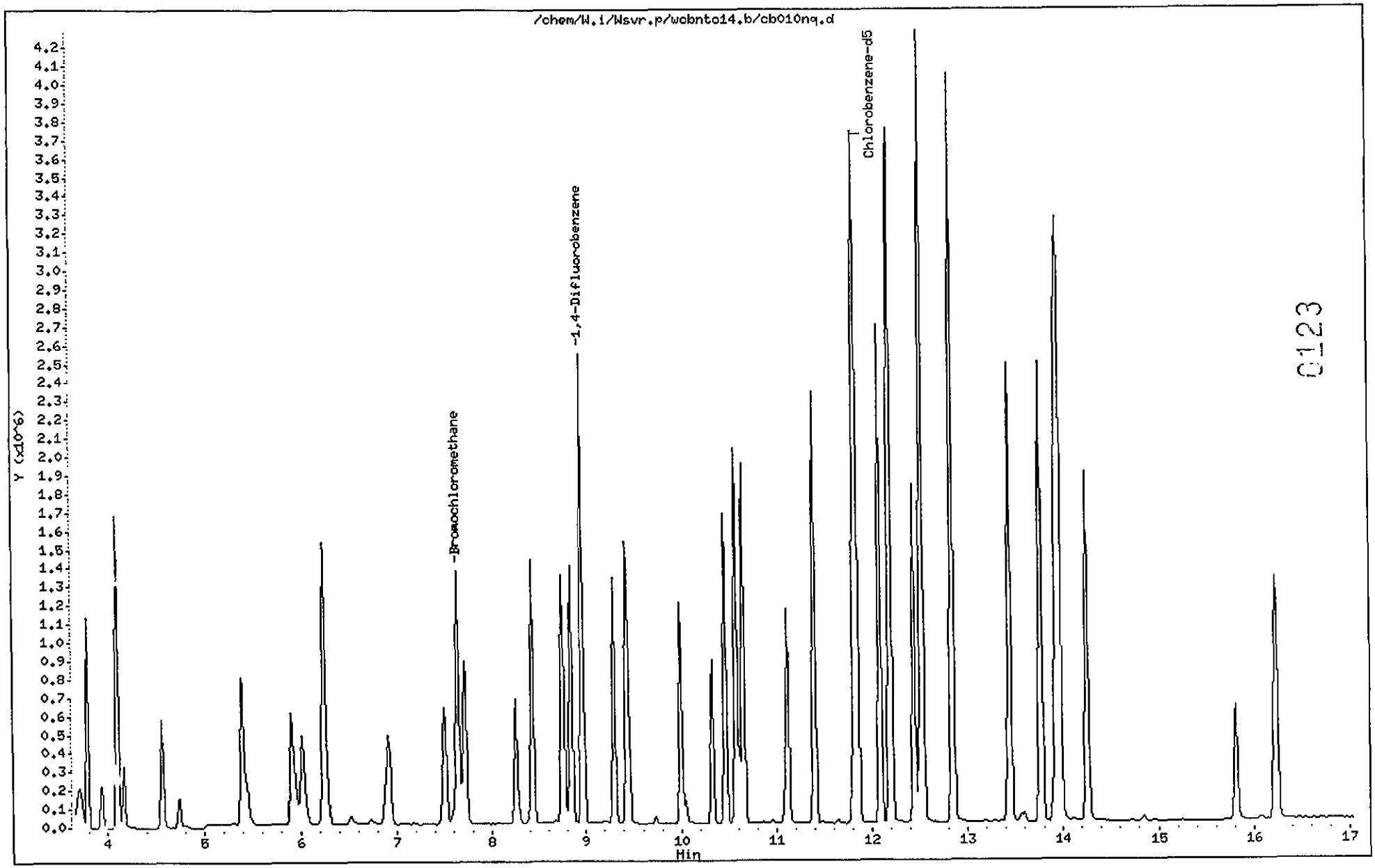
GC Column: DB-1 ID: 0.35 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) PPBV	Q
74-87-3	Chloromethane	8.5	
75-01-4	Vinyl Chloride	9.0	
74-83-9	Bromomethane	8.7	
75-00-3	Chloroethane	9.2	
75-69-4	Trichlorofluoromethane	8.8	
75-09-2	Methylene Chloride	7.9	
75-34-3	1,1-Dichloroethane	8.3	
67-66-3	Chloroform	8.4	
71-55-6	1,1,1-Trichloroethane	8.5	
56-23-5	Carbon Tetrachloride	9.0	
71-43-2	Benzene	8.3	
107-06-2	1,2-Dichloroethane	8.3	
79-01-6	Trichloroethene	8.4	
78-87-5	1,2-Dichloropropane	7.6	
10061-01-5	cis-1,3-Dichloropropene	8.8	
108-88-3	Toluene	8.6	
10061-02-6	trans-1,3-Dichloropropene	8.2	
79-00-5	1,1,2-Trichloroethane	9.1	
127-18-4	Tetrachloroethene	8.4	
108-90-7	Chlorobenzene	8.4	
100-41-4	Ethylbenzene	8.7	
1330-20-7	Xylene (total)	26	
100-42-5	Styrene	8.6	
1330-20-7	Xylene (m,p)	17	
95-47-6	Xylene (o)	8.5	
79-34-5	1,1,2,2-Tetrachloroethane	8.7	
541-73-1	1,3-Dichlorobenzene	8.6	
106-46-7	1,4-Dichlorobenzene	7.3	
95-50-1	1,2-Dichlorobenzene	8.1	

Data File: /chem/W.i/Wsvr.p/wcbnto14.b/cb010nq.d
Date : 22-AUG-2000 10:53
Client ID: U9_LCS
Sample Info: U9_LCS;U9_LCS
Purge Volume: 200.0
Column phase: DB-1

Instrument: W.i
Operator: GMM
Column diameter: 0.35



STL Burlington

AIR TOXICS QUANTITATION REPORT

Data file : /chem/W.i/Wsvr.p/wcbnto14.b/cb010nq.d
Lab Smp Id: U9_LCS Client Smp ID: U9_LCS
Inj Date : 22-AUG-2000 10:53
Operator : GMM Inst ID: W.i
Smp Info : U9_LCS;U9_LCS
Misc Info :
Comment :
Method : /chem/W.i/Wsvr.p/wcbnto14.b/ato14.m
Meth Date : 30-Aug-2000 16:03 mim Quant Type: ISTD
Cal Date : 10-JUL-2000 13:37 Cal File: cb0005i2.d
Als bottle: 1 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ACCANA.sub
Target Version: 3.50
Processing Host: chemsvr4

Concentration Formula: Amt * DF * X* Uf/Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
X	200.00000	method volume factor
Uf	1.00000	ng unit correction factor
Vo	200.00000	Sample Volume purged (mL)

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	FINAL (ppbv)
2	Chloromethane	50	3.940	3.925	(0.516)	289166	8.50542	8.5
4	Vinyl Chloride	62	4.170	4.156	(0.546)	328848	8.95056	9.0
5	Bromomethane	94	4.559	4.531	(0.597)	411573	8.68221	8.7
6	Chloroethane	64	4.747	4.718	(0.622)	196990	9.16974	9.2(M)
7	Trichlorofluoromethane	101	5.391	5.375	(0.706)	1062226	8.75053	8.8
9	Methylene Chloride	49	6.013	5.997	(0.787)	433357	7.90958	7.9
11	1,1-Dichloroethane	63	6.908	6.892	(0.905)	732577	8.29488	8.3
* 13	Bromochloromethane	128	7.637	7.621	(1.000)	469035	10.0000	
14	Chloroform	83	7.712	7.696	(1.010)	948685	8.43099	8.4
15	1,2-Dichloroethane	62	8.259	8 243	(1.081)	654979	8.29976	8.3
16	1,1,1-Trichloroethane	97	8.426	8.410	(1.103)	916550	8.51810	8.5
17	Benzene	78	8.744	8.728	(0.976)	1217262	8.32245	8.3
18	Carbon Tetrachloride	117	8.835	8.819	(0.986)	951266	8.95176	9.0
* 19	1,4-Difluorobenzene	114	8.957	8.956	(1.000)	2136652	10.0000	

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	FINAL (ppbv)
	20 1,2-Dichloropropane	63	9.291	9.275	(1.037)	426805	7.62402	7.6
	21 Trichloroethene	95	9.427	9.427	(1.053)	565816	8.40762	8.4
	22 cis-1,3-Dichloropropene	75	9.989	9.988	(1.115)	769156	8.77267	8.8
	23 trans-1,3-Dichloropropene	75	10.338	10.322	(1.154)	562609	8.23778	8.2
	24 1,1,2-Trichloroethane	83	10.459	10.458	(1.168)	534919	9.14789	9.1
	25 Toluene	92	10.656	10.641	(0.901)	1006113	8.64823	8.6
	27 Tetrachloroethene	166	11.400	11.399	(0.964)	729103	8.38766	8.4
*	28 Chlorobenzene-d5	117	11.825	11.809	(1.000)	2321631	10.0000	
	29 Chlorobenzene	112	11.855	11.839	(1.003)	1261026	8.38637	8.4
	30 Ethylbenzene	91	12.083	12.082	(1.022)	2252788	8.66525	8.7
	31 Xylene (m,p)	106	12.204	12.188	(1.032)	1617529	16.9868	17
	32 Styrene	104	12.447	12.446	(1.053)	1079914	8.58810	8.6
M	33 Xylene (total)	106				2410482	25.5111	26
	34 1,1 2,2-Tetrachloroethane	83	12.508	12.507	(1.058)	1382980	8.68384	8.7
	35 Xylene (o)	106	12.523	12.522	(1.059)	792953	8.52427	8.5
	38 1,3-Dichlorc enzene	146	13.919	13.919	(1.177)	1241058	8.60424	8.6
	39 1,4-Dichlorobenzene	146	13.965	13.964	(1.181)	1082566	7.29759	7.3
	40 1,2-Dichlorobenzene	146	14.253	14.252	(1.205)	1000725	8.11453	8.1

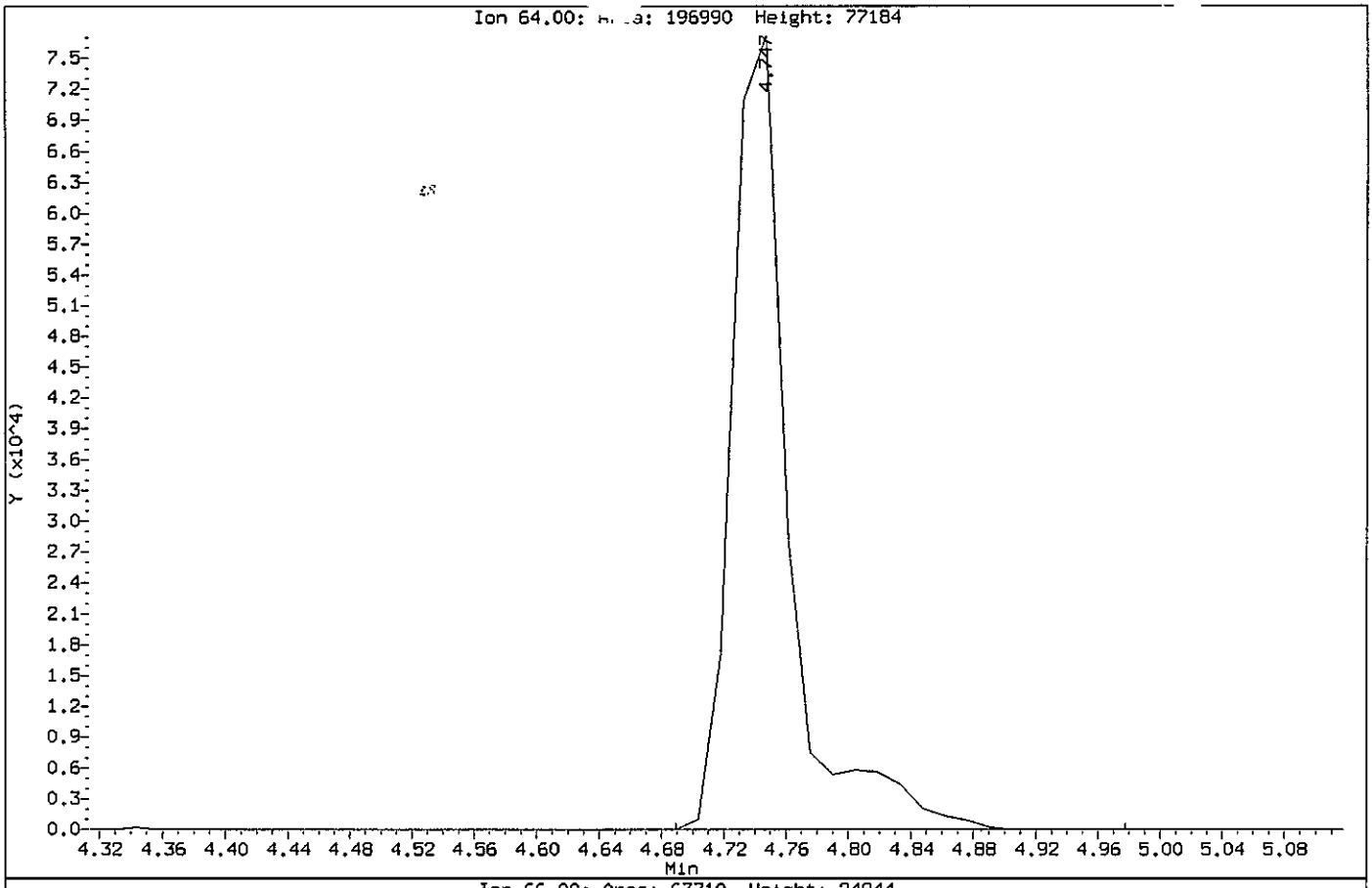
QC Flag Legend

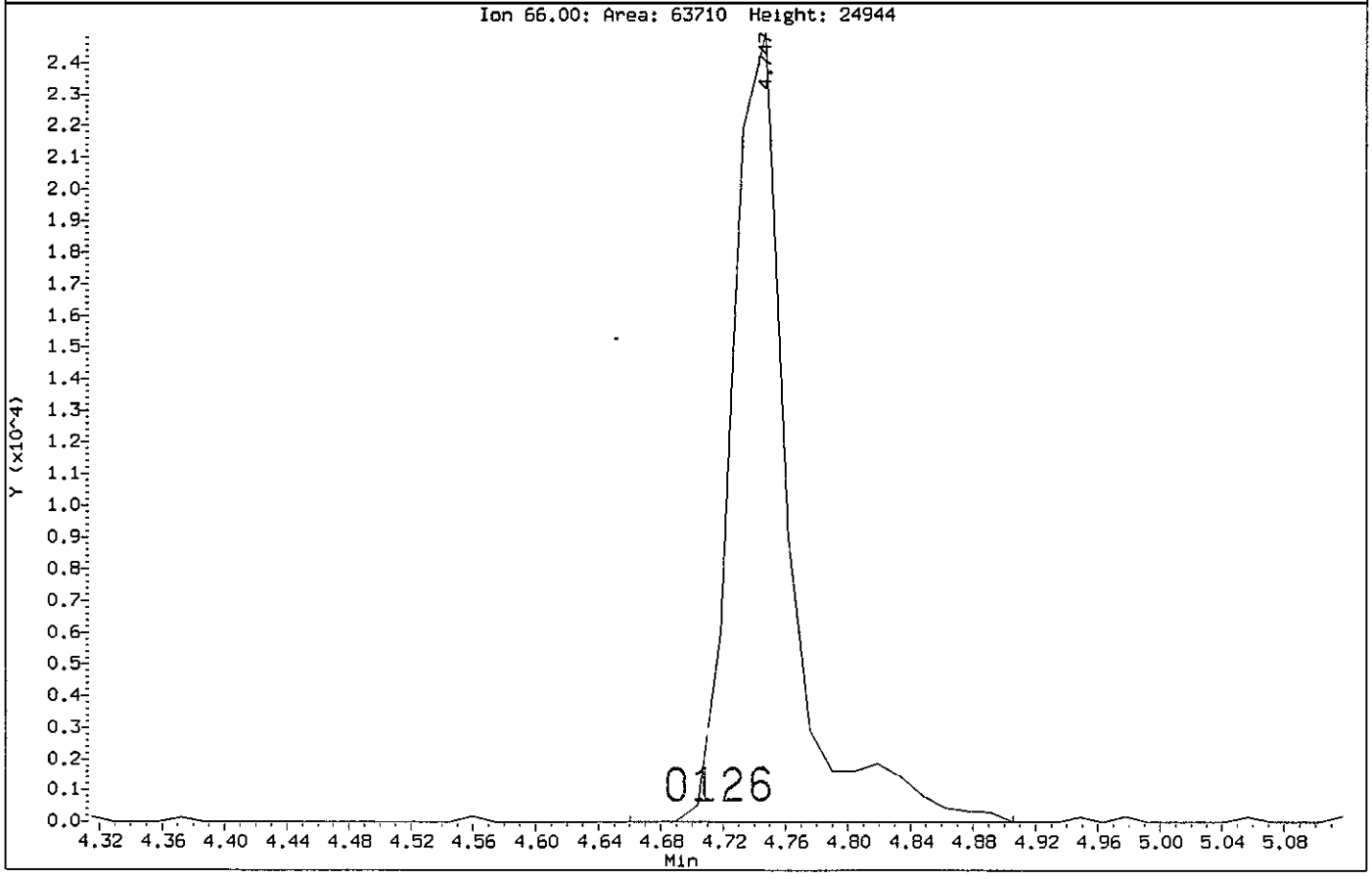
M - Compound response manually integrated.

mwc 8/31/00

Data File: /chem/W.i/Wsvr.p/wcbnto14.b/cb010nq.d
Injection Date: 22-AUG-2000 10:53
Instrument: W.i
Client Sample ID: U9_LCS

Compound: Chloroethane
CAS Number: 75-00-3





STL Burlington

RECOVERY REPORT

Client Name:
Sample Matrix: GAS
Lab Smp Id: U9_LCS
Level: LOW
Data Type: MS DATA
SpikeList File: ACCANA.spk
Sublist File: ACCANA.sub
Method File: /chem/W.i/Wsvr.p/wcbnto14.b/ato14.m
Misc Info:

Client SDG:
Fraction: VOA
Client Smp ID: U9_LCS
Operator: GMM
SampleType: LCS
Quant Type: ISTD

SPIKE COMPOUND	CONC ADDED ppbv	CONC RECOVERED ppbv	% RECOVERED	LIMIT
2 Chloromethane	10	8.5	85.05	70-13
4 Vinyl Chloride	10	9.0	89.51	70-13
5 Bromomethane	10	8.7	86.82	70-13
6 Chloroethane	10	9.2	91.70	70-13
7 Trichlorofluoromet	10	8.8	87.51	70-13
9 Methylene Chloride	10	7.9	79.10	70-13
11 1,1-Dichloroethane	10	8.3	82.95	70-13
14 Chloroform	10	8.4	84.31	70-13
15 1,2-Dichloroethane	10	8.3	83.00	70-13
16 1,1,1-Trichloroeth	10	8.5	85.18	70-13
17 Benzene	10	8.3	83.22	70-13
18 Carbon Tetrachlori	10	9.0	89.52	70-13
20 1,2-Dichloropropan	10	7.6	76.24	70-13
21 Trichloroethene	10	8.4	84.08	70-13
22 cis-1,3-Dichloropr	10	8.8	87.73	70-13
23 trans-1,3-Dichloro	10	8.2	82.38	70-13
24 1,1,2-Trichloroeth	10	9.1	91.48	70-13
25 Toluene	10	8.6	86.48	70-13
27 Tetrachloroethene	10	8.4	83.88	70-13
29 Chlorobenzene	10	8.4	83.86	70-13
30 Ethylbenzene	10	8.7	86.65	70-13
31 Xylene (m,p)	20	17	84.93	70-13
32 Styrene	10	8.6	85.88	70-13
34 1,1,2,2-Tetrachlor	10	8.7	86.84	70-13
35 Xylene (o)	10	8.5	85.24	70-13
38 1,3-Dichlorobenzen	10	8.6	86.04	70-13
39 1,4-Dichlorobenzen	10	7.3	72.98	70-13
40 1,2-Dichlorobenzen	10	8.1	81.15	70-13

SEVERN TRENT SERVICES

Severn Trent Laboratories, Inc.

SAMPLE PREPARATION

Severn Trent Laboratories-VT
Instrument Run Log
Instrument w

Batch: wcbto14
Opened: 7 / 10 / 00 Time: 0831
Closed: 7 / 11 / 00 Time: 0831

ETR #

SDG #

Tune. ✓
ISTD Tag #. 01-1368

Temp 19.5 °C B.P. 29.6 "Hg

INJ. TIME	LAB ID	CAN ID #	CLIENT ID	ETR #	INLET #	SAMPLE VOLUME (mL)	DILUTION FACTOR	ISTD RECOVERY	CONC	ANALYST	COMMENTS
0831	cb001p	n/a	WBFB01	n/a	n/a	n/a	n/a	n/a	✓	GMM	
0948	cb0005	EXP2	ASTD0005	↓	2	20	↓	✓	✓	↓	AT07100002
1021	cb005	EXP1	005		3	25		✓	✓		AT07100002
1055	cb010	↓	010		3	50		✓	✓		
1131	cb020		020		3	100		✓	✓		
1208	cb040		040		3	200		✓	✓		
1337	cb0005i2	EXP2	ASTD0005		4	20		✓	✓		
1418	cb010q	6062	ICV		2	200		✓	✓		AT07100003
1453	cbb001	#32	ABLKP4	↓	4	200	↓	✓	✓	↓	
1823	C6024	6024	Batch Can	n/a	6	200	n/a	✓	✓	GMM	

gmm 071100

012

Severn Trent Laboratories-VT
Instrument Run Log
Instrument w

Batch: wcbnt014
Opened: 8 / 22 / 00 **Time:** 0952
Closed: 8 / 23 / 00 **Time:** 0952

ETR #	SDG #
79432	79432
79433	JMR019
79442	79442

Tune ✓
ISTD Tag # 01-1388

Temp: 19.5 °C B.P.: 30.00 "Hg

INJ TIME	LAB ID	CAN ID #	CLIENT ID	ETR #	INLET #	SAMPLE VOLUME (mL)	DILUTION FACTOR	ISTD RECOVERY	CONC.	ANALYST	COMMENTS
0952	cb014p	n/a	WBFB014	n/a	n/a	n/a	n/a	n/a	✓	GMM	
1012	cb010n	EXP1	ASTD010	↓	3	50	↓	✓	✓	↓	AT07100001
1053	cb010nq	6042	U9-LCS	↓	4	200	↓	✓	✓	↓	AT07100003
1124	cbb00ln	n/a	ABLKU9	↓	1	200	↓	✓	✓	↓	
1240	427815	6079	IC81600	79432	5	200	1:1	✓	↑	↓	0230
1340	427756d	6072a	ACAIA-	79442	6	25	1:8	✓	✓	↓	c 0230
1413	427757	6026	-ACAZIA-	↓	7	200	1:1	✓	~~Amm~~ ✓	↓	c
1446	427758	6100	-ACAEA-	↓	8	↓	↓	✓	✓	↓	c
1546	427811	12821	MR-200230	79433	9	200	1:1	✓	✓	↓	c
1620	427812	93065	↓ 2	↓	10	↓	↓	✓	✓	↓	c
1653	427813	11159	MR-200250	↓	11	↓	↓	✓	✓	↓	c
1727	427814	12454	↓ 2	↓	12	↓	↓	✓	✓	↓	c
—	427757d2	6026	-ACAZIA-	79442	5	—	—	—	—	↓	
0713	427815d2	6079	IC81600	79432	7	10	47.6	✓	↑	↓	
0803	427815d3	Bag	↓	↓	8	40	238	✓	✓	↓	c
1827	c6070	6070	Batch Can	n/a	5	200	1:1	✓	✓	↓	
	Amm 082300										

SEVERN TRENT SERVICES

Severn Trent Laboratories, Inc.

SAMPLE HANDLING

FROM: Randy Dumaop (904)777-4812
CCI / J.A. Jones Environmental
6219 Authority Ave.
Building 1
Jacksonville, FL 32215

SHIPPER'S FEDEX ACCOUNT NUMBER

FedEx
Federal Express

TO: Ron Pentkowski (802)655-1203
Severn Trent Laboratories
208 South Park Drive
Suite 1
Colchester, VT 05446-

SHIP DATE: 16AUG00
MAN-WGT: 25 LBS

Scott 2 8/18/00 0920

REF: 154282.99.22.01.01

DELIVERY ADDRESS BARCODE (FEDEX-EDR)

CAD # 3844729 ** 2DAY **

FRI
AA

TRK # 7911 2843 0140 FORM 0201

BTV

Deliver By:
18AUG00

05446-VT-US

KF BTVA

C132

SEVERN TRENT LABORATORIES LOG-IN SHEET - Form DC-1

Lab Name: Severn Trent Laboratories - VT — Page 1 of 1

Received By (Print Name): Scott Lavigne — Log-in Date: 8/19/00

Received By (Signature): Scott

Case Number: 20020

Sample Delivery Group No: 79425

ETR Number: 79425

REMARKS

1. **Custody Seal** ~~Present~~/~~Absent~~* ~~Intact~~/~~Broken~~
2. **Custody Seal Nos.:** N/A
3. **Chain-of-Custody Records** ~~Present~~/~~Absent~~*
4. **Sample Information Sheets** ~~Present~~/~~Absent~~*
5. **Airbill** ~~Airbill~~/~~Sticker~~ ~~Present~~/~~Absent~~*
6. **Airbill No.:** 7911 2843 0140
7. **Sample Tags** ~~Present~~/~~Absent~~*
   Sample Tag * Numbers ~~Listed~~/~~Not Listed~~ on Chain-of-Custody
8. **Sample Condition:** ~~Intact~~/~~Broken~~* ~~Leaking~~
9. **Does information on the custody records, sample information sheets, sample tags and labels agree?** ~~Yes~~/~~No~~*
10. **Date Received at Lab:** 8/18/00
11. **Time Received:** 0920
12. **Cooler Temperature:** N/A

Sample Transfer

Fraction: All

Area #: LLL4

By: SML

On: 8/18/00

CORRESPONDING			
CLIENT SAMPLE #	SAMPLE TAG #	ASSIGNED LAB #	REMARKS: CONDITION OF SAMPLE SHIPMENT, ETC.
029ACAIA08150003		127756	Were air bubbles present
029ACA2IA08150003		127757	in any VOA vials? N/A
029ACAEA08150003		127758	Samples received
			Intact, As were
			Custody seals on
			outside of Box.
			*Removed hyphens
			for truncation.
	SML	8/19/00	

* Contact Project Director

Reviewed by: _____ 8/22/00 — Logbook No.: _____

Date: _____ — Logbook Page No.: _____

0133

** COOLER RECEIPT CHECKLIST **

WERE CUSTODY SEALS PRESENT ON THE COOLERS?

(YES) NO

IF SO, WERE THERE CUSTODY SEAL NUMBERS?

YES (NO)

LIST THE CUSTODY SEAL NUMBERS. / /

WHAT TYPE OF COOLING WAS UTILIZED?

ICE MELTED ICE PACKS (NONE)

COOLER TEMPERATURE (degrees c): Box

DATE AND TIME COOLER RECEIVED: 8-18-00 0920

DO SAMPLES APPEAR TO BE INTACT: (YES) NO

DO ANY SAMPLES HAVE SHORT HOLDING TIMES?
(less than seven days)

WET CHEM	**YES**	**(NO)**
EXTRACTABLES	**YES**	**(NO)**
UNPRES VOA	**YES**	**(NO)**

RADIATION SCREEN RESULTS <0.05 MR/HR (YES) NO

SEVERN TRENT SERVICES

STL Burlington
Suite 1
208 South Park Drive
Colchester, VT 05446

Tel: 802 655 1203
Fax: 802 655 1248
www.stl-inc.com

SAMPLE DATA SUMMARY PACKAGE

SDG NO: 79819

SEVERN TRENT SERVICES

STL Burlington
Suite 1
208 South Park Drive
Colchester, VT 05446

Tel: 802 655 1203
Fax: 802 655 1248
www.stl-inc.com

September 29, 2000

Mr. Jeff Wilmoth
Accura Analytical Laboratories
6017 Financial Drive
Norcross, GA 30071

Re: Laboratory Project No. 20031
Case: 20031; SDG:79819

Dear Mr. Wilmoth:

Enclosed are the analytical results of samples received intact by Severn Trent Laboratories on September 20, 2000. Laboratory numbers have been assigned and designated as follows:

Lab ID	Client Sample ID	Sample Date	Sample Matrix
	Received: 9/20/00 ETR No: 79819		
430662	029ACAIA09180004	09/18/00	Air
430663	029ACA2IA09180004	09/18/00	Air
430664	029ACAEA09180004	09/18/00	Air

Method TO-14A Modified-Volatile Organics;
Please note that due to a limitation of characters inherent in the reporting software, some characters of the client identification above were truncated.

Please note that in the analyses of samples in this delivery group, one additional qualifier was utilized. It is defined as follows:

Z = Quantitation of the Tentatively Identified Compound is based on the integration of chromatographic peak which represents more than a single component co-eluting at the same retention time.

If there are any questions regarding this submittal, please contact Ron Pentkowski at (802) 655-1203.

This report shall not be reproduced, except in full, without the written approval of the laboratory. This report is sequentially numbered starting with page 0001 and ending with page 0130.

SEVERN
TRENT
SERVICES

STL Burlington

I certify that this package is in compliance with the NELAC requirements, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Director or his designee, as verified by the following signature.

Sincerely,

Christopher A. Ouellette for
Laboratory Director

RAP/bas
Enclosure

SEVERN
TRENT
SERVICES

Severn Trent Laboratories, Inc.

SAMPLE DATA SUMMARY PACKAGE

FOR TO-14A VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

ACCANA SAMPLE NO.

028ACA2IA0918

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 79819

Matrix: (soil/water) AIR Lab Sample ID: 430663

Sample wt/vol: 200 (g/mL) ML Lab File ID: 430663

Level: (low/med) LOW Date Received: 09/20/00

% Moisture: not dec. _____ Date Analyzed: 09/22/00

GC Column: DB-1 ID: 0.35 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) PPBV	Q
74-87-3	Chloromethane	0.54	
75-01-4	Vinyl Chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.73	
75-69-4	Trichlorofluoromethane	0.50	U
75-09-2	Methylene Chloride	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
56-23-5	Carbon Tetrachloride	0.50	U
71-43-2	Benzene	1.2	
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-88-3	Toluene	4.4	
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	9.9	
1330-20-7	Xylene (total)	85	
100-42-5	Styrene	0.50	U
1330-20-7	Xylene (m,p)	64	
95-47-6	Xylene (o)	22	
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

ACCANA SAMPLE NO.

028ACA2IA0918

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 79819

Matrix: (soil/water) AIR Lab Sample ID: 430663

Sample wt/vol: 200 (g/mL) ML Lab File ID: 430663

Level: (low/med) LOW Date Received: 09/20/00

% Moisture: not dec. _____ Date Analyzed: 09/22/00

GC Column: DB-1 ID: 0.35 (mm) Dilution Factor: 1.0

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

Number TICs found: 10

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

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		UNKNOWN ALKANE	12.63	57	J
2.		UNKNOWN ALKANE	13.08	60	J
3.		UNKNOWN ALKYLCYCLOHEXANE	13.16	46	J
4.		UNKNOWN	13.21	64	J
5.		UNKNOWN ALKANE W/ALKYLBENZEN	13.39	150	JZ
6.		UNKNOWN C3-ALKYLBENZENE	13.46	45	J
7.		UNKNOWN C3-ALKYLBENZENE	13.78	110	J
8.		UNKNOWN	13.98	52	J
9.		UNKNOWN	14.31	70	J
10.		UNKNOWN DECAHYDRONAPHTHALENE	14.75	27	J
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FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

ACCANA SAMPLE NO.

028ACAEA0918

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 79819

Matrix: (soil/water) AIR Lab Sample ID: 430664

Sample wt/vol: 200 (g/mL) ML Lab File ID: 430664

Level: (low/med) LOW Date Received: 09/20/00

% Moisture: not dec. _____ Date Analyzed: 09/22/00

GC Column: DB-1 ID: 0.35 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) PPBV	Q
74-87-3	Chloromethane	0.50	
75-01-4	Vinyl Chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-09-2	Methylene Chloride	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
56-23-5	Carbon Tetrachloride	0.50	U
71-43-2	Benzene	2.7	
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-88-3	Toluene	12	
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	11	
1330-20-7	Xylene (total)	1.0	
100-42-5	Styrene	0.50	U
1330-20-7	Xylene (m,p)	1.0	
95-47-6	Xylene (o)	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

ACCANA SAMPLE NO.

028ACAEA0918

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 79819

Matrix: (soil/water) AIR Lab Sample ID: 430664

Sample wt/vol: 200 (g/mL) ML Lab File ID: 430664

Level: (low/med) LOW Date Received: 09/20/00

% Moisture: not dec. _____ Date Analyzed: 09/22/00

GC Column: DB-1 ID: 0.35 (mm) Dilution Factor: 1.0

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

Number TICs found: 10

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

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		UNKNOWN ALKANE	10.20	12	J
2.		UNKNOWN ALKANE	10.70	7.3	J
3.		UNKNOWN ALKANE	10.78	49	J
4.		UNKNOWN ALKANE	10.90	43	J
5.		UNKNOWN ALKYLCYCLOHEXANE	11.05	13	J
6.		UNKNOWN ALKANE	11.28	22	J
7.		UNKNOWN	11.38	7.5	J
8.		UNKNOWN ALKYLCYCLOHEXANE	11.89	17	J
9.		UNKNOWN ALKYLCYCLOHEXANE	11.98	52	J
10.		UNKNOWN	13.08	13	J
11.					
12.					
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FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

ACCANA SAMPLE NO.

028ACAIA0918

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 79819

Matrix: (soil/water) AIR Lab Sample ID: 430662

Sample wt/vol: 200 (g/mL) ML Lab File ID: 430662

Level: (low/med) LOW Date Received: 09/20/00

% Moisture: not dec. _____ Date Analyzed: 09/22/00

GC Column: DB-1 ID: 0.35 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) PPBV	Q
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl Chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-09-2	Methylene Chloride	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
56-23-5	Carbon Tetrachloride	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-88-3	Toluene	0.50	U
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
1330-20-7	Xylene (total)	0.50	U
100-42-5	Styrene	0.50	U
1330-20-7	Xylene (m,p)	0.50	U
95-47-6	Xylene (o)	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

ACCANA SAMPLE NO.

028ACAIA0918

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 79819

Matrix: (soil/water) AIR Lab Sample ID: 430662

Sample wt/vol: 200 (g/mL) ML Lab File ID: 430662

Level: (low/med) LOW Date Received: 09/20/00

% Moisture: not dec. _____ Date Analyzed: 09/22/00

GC Column: DB-1 ID: 0.35 (mm) Dilution Factor: 1.0

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

Number TICs found: 7

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

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		UNKNOWN SILOXANE DERIVATIVE	11.51	3.1	J
2.		UNKNOWN	13.15	1.1	J
3.		UNKNOWN	13.62	1.6	J
4.		UNKNOWN ALKANE W/ALKYLBENZEN	14.74	1.1	J
5.		UNKNOWN ALKYLCYCLOHEXANE	15.03	1.2	J
6.	5948-04-9	CYCLOHEXANONE, 2-METHYL-5-(1	15.35	1.1	NJ
7.		UNKNOWN	15.54	1.4	J
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FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

STLVT SAMPLE NO.

ABLKY4

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 79819

Matrix: (soil/water) AIR Lab Sample ID: ABLKY4

Sample wt/vol: 200 (g/mL) ML Lab File ID: CBB001T

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

% Moisture: not dec. _____ Date Analyzed: 09/22/00

GC Column: DB-1 ID: 0.35 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) PPBV	Q
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl Chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-09-2	Methylene Chloride	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
56-23-5	Carbon Tetrachloride	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-88-3	Toluene	0.50	U
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
1330-20-7	Xylene (total)	0.50	U
100-42-5	Styrene	0.50	U
1330-20-7	Xylene (m,p)	0.50	U
95-47-6	Xylene (o)	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

STLVT SAMPLE NO.

ABLKY4

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 79819

Matrix: (soil/water) AIR Lab Sample ID: ABLKY4

Sample wt/vol: 200 (g/mL) ML Lab File ID: CBB001T

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

% Moisture: not dec. _____ Date Analyzed: 09/22/00

GC Column: DB-1 ID: 0.35 (mm) Dilution Factor: 1.0

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

Number TICs found: 0

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

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.					
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FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

STLVT SAMPLE NO.

ICV_LCS

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 79819

Matrix: (soil/water) AIR Lab Sample ID: ICV_LCS

Sample wt/vol: 200 (g/mL) ML Lab File ID: CB010Q

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

% Moisture: not dec. _____ Date Analyzed: 07/10/00

GC Column: DB-1 ID: 0.35 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) PPBV	Q
74-87-3	Chloromethane	11	
75-01-4	Vinyl Chloride	11	
74-83-9	Bromomethane	10	
75-00-3	Chloroethane	11	
75-69-4	Trichlorofluoromethane	10	
75-09-2	Methylene Chloride	10	
75-34-3	1,1-Dichloroethane	11	
67-66-3	Chloroform	11	
71-55-6	1,1,1-Trichloroethane	11	
56-23-5	Carbon Tetrachloride	10	
71-43-2	Benzene	10	
107-06-2	1,2-Dichloroethane	10	
79-01-6	Trichloroethene	10	
78-87-5	1,2-Dichloropropane	10	
10061-01-5	cis-1,3-Dichloropropene	11	
108-88-3	Toluene	9.3	
10061-02-6	trans-1,3-Dichloropropene	11	
79-00-5	1,1,2-Trichloroethane	10	
127-18-4	Tetrachloroethene	9.2	
108-90-7	Chlorobenzene	9.0	
100-41-4	Ethylbenzene	9.4	
1330-20-7	Xylene (total)	28	
100-42-5	Styrene	8.8	
1330-20-7	Xylene (m,p)	18	
95-47-6	Xylene (o)	9.3	
79-34-5	1,1,2,2-Tetrachloroethane	9.3	
541-73-1	1,3-Dichlorobenzene	9.0	
106-46-7	1,4-Dichlorobenzene	8.0	
95-50-1	1,2-Dichlorobenzene	8.6	

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

STLVT SAMPLE NO.

Y4_LCS

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 79819

Matrix: (soil/water) AIR Lab Sample ID: Y4_LCS

Sample wt/vol: 200 (g/mL) ML Lab File ID: CB010TQ

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

% Moisture: not dec. _____ Date Analyzed: 09/22/00

GC Column: DB-1 ID: 0.35 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) PPBV	Q
74-87-3	Chloromethane	8.7	
75-01-4	Vinyl Chloride	9.5	
74-83-9	Bromomethane	9.7	
75-00-3	Chloroethane	9.6	
75-69-4	Trichlorofluoromethane	9.1	
75-09-2	Methylene Chloride	8.0	
75-34-3	1,1-Dichloroethane	8.6	
67-66-3	Chloroform	9.2	
71-55-6	1,1,1-Trichloroethane	9.1	
56-23-5	Carbon Tetrachloride	8.7	
71-43-2	Benzene	9.0	
107-06-2	1,2-Dichloroethane	8.8	
79-01-6	Trichloroethene	9.3	
78-87-5	1,2-Dichloropropane	9.1	
10061-01-5	cis-1,3-Dichloropropene	8.3	
108-88-3	Toluene	8.9	
10061-02-6	trans-1,3-Dichloropropene	7.6	
79-00-5	1,1,2-Trichloroethane	9.2	
127-18-4	Tetrachloroethene	9.1	
108-90-7	Chlorobenzene	8.8	
100-41-4	Ethylbenzene	9.0	
1330-20-7	Xylene (total)	26	
100-42-5	Styrene	9.0	
1330-20-7	Xylene (m,p)	18	
95-47-6	Xylene (o)	8.7	
79-34-5	1,1,2,2-Tetrachloroethane	8.7	
541-73-1	1,3-Dichlorobenzene	7.9	
106-46-7	1,4-Dichlorobenzene	8.6	
95-50-1	1,2-Dichlorobenzene	8.1	

FORM 3
AIR VOLATILE LAB CONTROL SAMPLE

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 79819

Matrix Spike - STLVT Sample No.: ICV_LCS

COMPOUND	SPIKE ADDED (ppbv)	SAMPLE CONCENTRATION (ug/L)	LCS CONCENTRATION (ppbv)	LCS % REC #	QC. LIMITS REC.
Chloromethane	10		11	110	70-130
Vinyl Chloride	10		11	110	70-130
Bromomethane	10		10	100	70-130
Chloroethane	10		11	110	70-130
Trichlorofluoromethane	10		10	100	70-130
Methylene Chloride	10		10	100	70-130
1,1-Dichloroethane	10		11	110	70-130
Chloroform	10		11	110	70-130
1,1,1-Trichloroethane	10		11	110	70-130
Carbon Tetrachloride	10		10	100	70-130
Benzene	10		10	100	70-130
1,2-Dichloroethane	10		10	100	70-130
Trichloroethene	10		10	100	70-130
1,2-Dichloropropane	10		10	100	70-130
cis-1,3-Dichloropropene	10		11	110	70-130
Toluene	10		9.3	93	70-130
trans-1,3-Dichloroprope	10		11	110	70-130
1,1,2-Trichloroethane	10		10	100	70-130
Tetrachloroethene	10		9.2	92	70-130
Chlorobenzene	10		9.0	90	70-130
Ethylbenzene	10		9.4	94	70-130
Styrene	10		8.8	88	70-130
Xylene (m,p)	20		18	90	70-130
Xylene (o)	10		9.3	93	70-130
1,1,2,2-Tetrachloroetha	10		9.3	93	70-130
1,3-Dichlorobenzene	10		9.0	90	70-130
1,4-Dichlorobenzene	10		8.0	80	70-130
1,2-Dichlorobenzene	10		8.6	86	70-130

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

* Values outside of QC limits

RPD: 0 out of 0 outside limits
Spike Recovery: 0 out of 28 outside limits

COMMENTS: _____

FORM 3
AIR VOLATILE LAB CONTROL SAMPLE

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 79819

Matrix Spike - STLVT Sample No.: Y4_LCS

COMPOUND	SPIKE ADDED (ppbv)	SAMPLE CONCENTRATION (ug/L)	LCS CONCENTRATION (ppbv)	LCS % REC #	QC. LIMITS REC.
Chloromethane	10		8.7	87	70-130
Vinyl Chloride	10		9.5	95	70-130
Bromomethane	10		9.7	97	70-130
Chloroethane	10		9.6	96	70-130
Trichlorofluoromethane	10		9.1	91	70-130
Methylene Chloride	10		8.0	80	70-130
1,1-Dichloroethane	10		8.6	86	70-130
Chloroform	10		9.2	92	70-130
1,1,1-Trichloroethane	10		9.1	91	70-130
Carbon Tetrachloride	10		8.7	87	70-130
Benzene	10		9.0	90	70-130
1,2-Dichloroethane	10		8.8	88	70-130
Trichloroethene	10		9.3	93	70-130
1,2-Dichloropropane	10		9.1	91	70-130
cis-1,3-Dichloropropene	10		8.3	83	70-130
Toluene	10		8.9	89	70-130
trans-1,3-Dichloroprope	10		7.6	76	70-130
1,1,2-Trichloroethane	10		9.2	92	70-130
Tetrachloroethene	10		9.1	91	70-130
Chlorobenzene	10		8.8	88	70-130
Ethylbenzene	10		9.0	90	70-130
Styrene	10		9.0	90	70-130
Xylene (m,p)	20		18	90	70-130
Xylene (o)	10		8.7	87	70-130
1,1,2,2-Tetrachloroetha	10		8.7	87	70-130
1,3-Dichlorobenzene	10		7.9	79	70-130
1,4-Dichlorobenzene	10		8.6	86	70-130
1,2-Dichlorobenzene	10		8.1	81	70-130

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

* Values outside of QC limits

RPD: 0 out of 0 outside limits
Spike Recovery: 0 out of 28 outside limits

COMMENTS: _____

FORM 4
VOLATILE METHOD BLANK SUMMARY

STLVT SAMPLE NO.

ABLKY4

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 79819

Lab File ID: CBB001T Lab Sample ID: ABLKY4

Date Analyzed: 09/22/00 Time Analyzed: 1140

GC Column: DB-1 ID: 0.35 (mm) Heated Purge: (Y/N) N

Instrument ID: W

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

	STLVT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	Y4_LCS	Y4_LCS	CB010TQ	1107
02	028ACAIA0918	430662	430662	1554
03	028ACA2IA091	430663	430663	1628
04	028ACAEA0918	430664	430664	1702
05				
06				
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COMMENTS:

FORM 5
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 79819

Lab File ID: CB001P BFB Injection Date: 07/10/00

Instrument ID: W BFB Injection Time: 0831

GC Column: DB-1 ID: 0.32 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	22.0
75	30.0 - 66.0% of mass 95	49.8
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.6
173	Less than 2.0% of mass 174	0.1 (0.2)1
174	50.0 - 120.0% of mass 95	69.8
175	4.0 - 9.0% of mass 174	4.9 (7.0)1
176	93.0 - 101.0% of mass 174	65.5 (93.8)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	ASTD005	ASTD005	CB005	07/10/00	1021
02	ASTD010	ASTD010	CB010	07/10/00	1055
03	ASTD020	ASTD020	CB020	07/10/00	1131
04	ASTD040	ASTD040	CB040	07/10/00	1208
05	ASTD0005	ASTD0005	CB0005I2	07/10/00	1337
06	ICV_LCS	ICV_LCS	CB010Q	07/10/00	1418
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FORM 5
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 79819

Lab File ID: CB020P BFB Injection Date: 09/22/00

Instrument ID: W BFB Injection Time: 1009

GC Column: DB-1 ID: 0.32 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	20.6
75	30.0 - 66.0% of mass 95	46.7
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.4
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	50.0 - 120.0% of mass 95	67.6
175	4.0 - 9.0% of mass 174	4.7 (7.0)1
176	93.0 - 101.0% of mass 174	64.8 (95.7)1
177	5.0 - 9.0% of mass 176	4.4 (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	ASTD010	ASTD010	CB010T	09/22/00	1028
02	Y4_LCS	Y4_LCS	CB010TQ	09/22/00	1107
03	ABLKY4	ABLKY4	CBB001T	09/22/00	1140
04	028ACAIA0918	430662	430662	09/22/00	1554
05	028ACA2IA091	430663	430663	09/22/00	1628
06	028ACAEA0918	430664	430664	09/22/00	1702
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6A
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 79819

Instrument ID: W Calibration Date(s): 07/10/00 07/10/00

Heated Purge: (Y/N) N Calibration Time(s): 1021 1337

GC Column: DB-1 ID: 0.35 (mm)

LAB FILE ID: RRF0.5=CB0005I2 RRF5 =CB005
RRF10 =CB010 RRF20 =CB020 RRF40 =CB040

COMPOUND	RRF0.5	RRF5	RRF10	RRF20	RRF40	$\overline{RRF}$	% RSD
Chloromethane *	0.968	0.672	0.708	0.648	0.627	0.725	19.2*
Vinyl Chloride	0.928	0.775	0.792	0.716	0.704	0.783	11.4
Bromomethane	1.272	1.006	1.018	0.896	0.861	1.011	16.0
Chloroethane	0.540	0.458	0.450	0.408	0.435	0.458	10.8
Trichlorofluoromethane	3.108	2.834	2.601	2.153	2.244	2.588	15.4
Methylene Chloride	1.676	1.157	1.130	0.952	0.926	1.168	25.8
1,1-Dichloroethane *	2.306	1.944	1.891	1.731	1.542	1.883	15.1*
Chloroform	2.896	2.499	2.405	2.184	2.011	2.399	14.0
1,1,1-Trichloroethane	2.670	2.427	2.324	2.119	1.930	2.294	12.4
Carbon Tetrachloride	0.543	0.556	0.512	0.466	0.409	0.497	12.1
Benzene	0.801	0.723	0.686	0.638	0.575	0.685	12.5
1,2-Dichloroethane	1.943	1.791	1.690	1.552	1.436	1.682	11.8
Trichloroethene	0.350	0.347	0.320	0.298	0.259	0.315	12.0
1,2-Dichloropropane	0.294	0.287	0.267	0.245	0.216	0.262	12.2
cis-1,3-Dichloropropene	0.418	0.434	0.425	0.409	0.366	0.410	6.4
Toluene	0.479	0.578	0.552	0.489	0.408	0.501	13.3
trans-1,3-Dichloropropene	0.318	0.329	0.332	0.322	0.298	0.320	4.2
1,1,2-Trichloroethane	0.303	0.303	0.282	0.255	0.224	0.273	12.4
Tetrachloroethene	0.348	0.439	0.412	0.369	0.304	0.374	14.3
Chlorobenzene *	0.624	0.767	0.717	0.622	0.508	0.648	15.4*
Ethylbenzene	0.952	1.346	1.290	1.111	0.899	1.120	17.7
Xylene (total)	1.004	1.431	1.378	1.236	1.055	1.221	15.5
Styrene	0.330	0.648	0.638	0.582	0.509	0.541	24.1
Xylene (m,p)	0.344	0.481	0.460	0.413	0.353	0.410	15.0
Xylene (o)	0.317	0.470	0.458	0.410	0.349	0.401	16.6
1,1,2,2-Tetrachloroethane	0.510	0.870	0.803	0.688	0.558	0.686	22.5
1,3-Dichlorobenzene	0.396	0.768	0.757	0.655	0.530	0.621	25.4
1,4-Dichlorobenzene	0.481	0.748	0.726	0.660	0.581	0.639	17.2
1,2-Dichlorobenzene	0.281	0.655	0.648	0.582	0.490	0.531	29.2

* Compounds with required minimum RRF and maximim %RSD values.
All other compounds must meet a minimim RRF of 0.010.

FORM 7
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 79819

Instrument ID: W Calibration Date: 09/22/00 Time: 1028

Lab File ID: CB010T Init. Calib. Date(s): 07/10/00 07/10/00

Heated Purge: (Y/N) N Init. Calib. Times: 1021 1337

GC Column: DB-1 ID: 0.35 (mm)

COMPOUND	$\overline{RRF}$	RRF10	MIN RRF	%D	MAX %D
Chloromethane	0.725	0.582	0.1	19.7	30.0
Vinyl Chloride	0.783	0.694	0.01	11.4	30.0
Bromomethane	1.011	0.928	0.01	8.2	30.0
Chloroethane	0.458	0.418	0.01	8.7	30.0
Trichlorofluoromethane	2.588	2.390	0.01	7.6	30.0
Methylene Chloride	1.168	0.912	0.01	21.9	30.0
1,1-Dichloroethane	1.883	1.552	0.1	17.6	30.0
Chloroform	2.399	2.071	0.01	13.7	30.0
1,1,1-Trichloroethane	2.294	2.060	0.01	10.2	30.0
Carbon Tetrachloride	0.497	0.442	0.01	11.1	30.0
Benzene	0.685	0.601	0.01	12.3	30.0
1,2-Dichloroethane	1.682	1.430	0.01	15.0	30.0
Trichloroethene	0.315	0.288	0.01	8.6	30.0
1,2-Dichloropropane	0.262	0.232	0.01	11.4	30.0
cis-1,3-Dichloropropene	0.410	0.328	0.01	20.0	30.0
Toluene	0.501	0.419	0.01	16.4	30.0
trans-1,3-Dichloropropene	0.320	0.233	0.01	27.2	30.0
1,1,2-Trichloroethane	0.273	0.246	0.01	9.9	30.0
Tetrachloroethene	0.374	0.328	0.01	12.3	30.0
Chlorobenzene	0.648	0.544	0.3	16.0	30.0
Ethylbenzene	1.120	0.972	0.01	13.2	30.0
Xylene (total)	1.221	1.041	0.01	14.7	30.0
Styrene	0.541	0.459	0.01	15.2	30.0
Xylene (m,p)	0.410	0.347	0.01	15.4	30.0
Xylene (o)	0.401	0.347	0.01	13.5	30.0
1,1,2,2-Tetrachloroethane	0.686	0.588	0.01	14.3	30.0
1,3-Dichlorobenzene	0.621	0.578	0.01	6.9	30.0
1,4-Dichlorobenzene	0.639	0.472	0.01	26.1	30.0
1,2-Dichlorobenzene	0.531	0.433	0.01	18.4	30.0

FORM 8
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 79819

Lab File ID (Standard): CB010T Date Analyzed: 09/22/00

Instrument ID: W Time Analyzed: 1028

GC Column: DB-1 ID: 0.35 (mm) Heated Purge: (Y/N) N

		IS1 (BCM) AREA #	RT #	IS2 (CBZ) AREA #	RT #	IS3 (DFB) AREA #	RT #
	12 HOUR STD	356062	7.70	1854709	11.84	1669325	9.00
	UPPER LIMIT	854549	8.03	4451302	12.17	4006380	9.33
	LOWER LIMIT	142425	7.37	741884	11.51	667730	8.67
	STLVT SAMPLE NO.						
01	Y4_LCS	373194	7.67	1998941	11.84	1855935	8.99
02	ABLKY4	428269	7.65	2108516	11.82	2034969	8.97
03	028ACAIA0918	283644	7.65	1196483	11.83	1297769	8.97
04	028ACA2IA091	325951	7.64	1382265	11.83	1453433	8.97
05	028ACAEA0918	394112	7.62	1729226	11.82	1737063	8.96
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IS1 (BCM) = Bromochloromethane
IS2 (CBZ) = Chlorobenzene-d5
IS3 (DFB) = 1,4-Difluorobenzene

AREA UPPER LIMIT = +140% of internal standard area
AREA LOWER LIMIT = - 60% of internal standard area
RT UPPER LIMIT = + 0.33 minutes of internal standard RT
RT LOWER LIMIT = - 0.33 minutes of internal standard RT

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

CH2M HILL CONSTRUCTORS, INC.
115 Perimeter Center Place Suite 700
Atlanta GA 30346 1278
Tel No (770) 604 9182 Fax No (770) 604 9282

039707

CHAIN-OF-CUSTODY RECORD 25862

COC NUMBER: 154282-03

PROJECT NAME	PROJECT NUMBER	LAB NAME AND CONTACT	FAX AND MAIL REPORTS/EDD TO RECIPIENT 1 (Name and Company)	RECIPIENT 1 (Address, Tel No and Fax No)
N.A.S Cecil Field 103rd Street	154282	Severn Trent Laboratories/ Ron Pentkowski	Dave Accura Analytical Laboratory	6017 Financial Drive Norcross, GA 30071 (770) 449-8800 Fax:(770) 449-5477
PROJECT PHASE/SITE/TASK	CTO OR DO NUMBER	LAB PO NUMBER	FAX AND MAIL REPORTS/EDD TO RECIPIENT 2 (Name and Company)	RECIPIENT 2 (Address, Tel No , and Fax No)
103rd Street Monthly Air	0029	1760	Keith Conn / J.A Jones Env. Services	6219 Authority Ave. Building 1 Jacksonville, FL 32215 (904) 7774812 FAX: (904) 7774262
PROJECT CONTACT	PROJECT TEL NO AND FAX NO	LAB TEL NO AND FAX NO	FAX AND MAIL REPORTS/EDD TO RECIPIENT 3 (Name and Company)	RECIPIENT 3 (Address, Tel No , and Fax No)
Keith Conn	Ph:(904)777-4812 Fax:(904) 777-4262	Ph:(802) 655-1203	Jeff Wilmoth / CH2M Hill Constuctors, Inc.	115 Perimeter Center Place, N.E. Suite 700 Atlanta, GA 30346 (770)604-9182 Ext.561 FAX:604-9282

ITEM	SAMPLE IDENTIFIER	SAMPLE DESCRIPTION/LOCATION	MATRIX (see codes on back)	DATE COLLECTED	TIME COLLECTED	DATA PKG LEVEL (see codes on back)	TAT (calendar days)	ANALYSES REQUIRED (Include Method Numbers) Volatiles by 18 / TO 14	SAMPLE TYPE (see codes on back)	COMMENTS/ SCREENING READINGS	LAB ID AC
1	029-ACA-I-A-0918[illegible]	Pre Carbon Units	A	09/18/00	11:20	III/B	7	1	Grab	Summa Canister	01200
2	029-ACA2-I-A-0918-00[illegible]	Mid Carbon Units	A	09/18/00	11:25	III/B	7	1	Grab	Summa Canister	01201
3	029-ACA-E-A-0918-00-04[illegible]	Post Carbon Units	A	09/18/00	11:30	III/B	7	1	Grab	Summa Canister	04202
4											
5											
6											
7											
8											
9											
10											

SAMPLER(S) AND COMPANY (please print)	COURIER AND SHIPPING NUMBER	SAMPLES TEMPERATURE AND CONDITION UPON RECEIPT
Randy Dumaop J.A. Jones Environmental Services	Federal Express TRK# 791851529683	

RELINQUISHED BY	DATE	TIME	RECEIVED BY	DATE	TIME
Printed Name and Signature			Printed Name and Signature		
R Dumaop	9/18/00	13:00	Federal Express	9/18/00	13:00
Printed Name and Signature			Printed Name and Signature		
Printed Name and Signature			Printed Name and Signature		
			Frank Bessette	9-20-00	0930

79819

SEVERN
TRENT
SERVICES

Severn Trent
Laboratories, Inc.

SEVERN TRENT SERVICES

Severn Trent Laboratories, Inc.

NARRATIVE

SEVERN TRENT SERVICES

STL Burlington
Suite 1
208 South Park Drive
Colchester, VT 05446

Tel: 802 655 1203
Fax: 802 655 1248
www.stl-inc.com

September 29, 2000

Mr. Jeff Wilmoth
Accura Analytical Laboratories
6017 Financial Drive
Norcross, GA 30071

Re: Laboratory Project No. 20031
Case: 20031; SDG:79819

Dear Mr. Wilmoth:

Enclosed are the analytical results of samples received intact by Severn Trent Laboratories on September 20, 2000. Laboratory numbers have been assigned and designated as follows:

Lab ID	Client Sample ID	Sample Date	Sample Matrix
	Received: 9/20/00 ETR No: 79819		
430662	029ACAIA09180004	09/18/00	Air
430663	029ACA2IA09180004	09/18/00	Air
430664	029ACAEA09180004	09/18/00	Air

Method TO-14A Modified-Volatile Organics;
Please note that due to a limitation of characters inherent in the reporting software, some characters of the client identification above were truncated.

Please note that in the analyses of samples in this delivery group, one additional qualifier was utilized. It is defined as follows:

Z = Quantitation of the Tentatively Identified Compound is based on the integration of chromatographic peak which represents more than a single component co-eluting at the same retention time.

If there are any questions regarding this submittal, please contact Ron Pentkowski at (802) 655-1203.

This report shall not be reproduced, except in full, without the written approval of the laboratory. This report is sequentially numbered starting with page 0001 and ending with page 0130.

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I certify that this package is in compliance with the NELAC requirements, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Director or his designee, as verified by the following signature.

Sincerely,

Christine Dussliere

Christopher A. Ouellette for
Laboratory Director

RAP/bas
Enclosure

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The following Qualifiers may be used when reporting any Organic parameters analyzed by Gas Chromatography/mass Spectometry (GCMS). Any additional qualifiers used in the reports will be described in the case narrative. These flags are based on the EPA Contract Laboratory Program statement of work.

GC/MS Qualifiers

A- The reported Tentatively Identified Compound (TIC) is a suspected Aldol-condensation product.

B- The reported analyte was detected in the associated method blank as well as the sample.

D - This flag identifies all compounds identified in an analysis at a secondary dilution factor. This flag alerts data users that any discrepancies between the concentrations reported for the dilutions may be due to dilution of the sample or extract. It additionally indicates that spike recoveries may have been diluted below quantifiable levels.

E- Compound quantitation is above the instrument's calibration range for this analysis.

J - Indicates an estimated value. This flag is used when the result is less than the reporting limit, but > ½ reporting limit.

U- Indicates compound was analyzed for but not detected above the reporting limit.

X,Y,Z - Laboratory defined flags. These flags must be fully described, and such description attached to the Sample Data Summary Package and the case Narrative. Begin by using "X" and go on to "Y" as necessary. These flags may also be used to combine several flags, as needed.

STL Burlington is a part of Severn Trent Laboratories, Inc.

last Alpha

CH2M Hill Constructors, Inc.
115 Perimeter Center Place Suite 700
Atlanta GA 30346-1278
Tel No (770) 604-9182 , Fax No (770) 604 9282

CHAIN-OF-CUSTODY RECORD

COC NUMBER
154282-03

PROJECT NAME	PROJECT NUMBER	LAB NAME AND CONTACT	FAX AND MAIL REPORTS/EDD TO RECIPIENT 1 (Name and Company)	RECIPIENT 1 (Address, Tel No , and Fax No)
N.A.S Cecil Field 103rd Street	154282	Severn Trent Laboratories/ Ron Pentkowski	Dave Accura Analytical Laboratory	6017 Financial Drive Norcross, GA 30071 (770) 449-8800 Fax:(770) 449-5477
PROJECT PHASE/SITE/TASK	CTO OR DO NUMBER	LAB PO NUMBER	FAX AND MAIL REPORTS/EDD TO RECIPIENT 2 (Name and Company)	RECIPIENT 2 (Address, Tel No , and Fax No)
103rd Street Monthly Air	0029	1760	Keith Conn / J.A Jones Env. Services	6219 Authority Ave. Building 1 Jacksonville, FL 32215 (904) 7774812 FAX: (904) 7774262
PROJECT CONTACT	PROJECT TEL NO AND FAX NO	LAB TEL NO AND FAX NO	FAX AND MAIL REPORTS/EDD TO RECIPIENT 3 (Name and Company)	RECIPIENT 3 (Address, Tel No , and Fax No)
Keith Conn	Ph:(904)777-4812 Fax:(904) 777-4262	Ph:(802) 655-1203	Jeff Wilmoth / CH2M Hill Constuctors, Inc.	115 Perimeter Center Place, N.E. Suite 700 Atlanta, GA 3034 (770)604-9182 Ext.561 FAX:604-9282

ITEM	SAMPLE IDENTIFIER	SAMPLE DESCRIPTION/LOCATION	MATRIX (see codes on back)	DATE COLLECTED	TIME COLLECTED	DATA PKG LEVEL (see codes on back)	TAT (calendar days)	ANALYSES REQUIRED (Include Method Numbers) Volatiles by 18 / TO 14									SAMPLE TYPE (see codes on back)	COMMENTS/ SCREENING READINGS	LAB ID
1	029-ACA-I-A-0918[illegible]	Pre Carbon Units	A	09/18/00	11:20	III/B	7	1									Grab	Summa Canister	
2	029-ACA2-I-A-0918-00[illegible]	Mid Carbon Units	A	09/18/00	11:25	III/B	7	1									Grab	Summa Canister	
3	029-ACA-E-A-0918-00-04[illegible]	Post Carbon Units	A	09/18/00	11:30	III/B	7	1									Grab	Summa Canister	
4																			
5																			
6																			
7																			
8																			
9																			
10																			

SAMPLER(S) AND COMPANY (please print)	COURIER AND SHIPPING NUMBER	SAMPLES TEMPERATURE AND CONDITION UPON RECEIPT
Randy Dumaop J.A. Jones Environmental Services	Federal Express TRK# 791851529683	

RELINQUISHED BY	DATE	TIME	RECEIVED BY	DATE	TIME
Printed Name and Signature			Printed Name and Signature		
R.Dumaop [signature]	9/18/00	13:00	Federal Express	9/18/00	13:00
Printed Name and Signature			Printed Name and Signature		
Printed Name and Signature			Printed Name and Signature		
			Frank Bassette [signature]	9-20-00	0930

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Severn Trent Laboratories, Inc.

METHOD TO-14A
VOLATILE ORGANIC ANALYSIS

QC SUMMARY

FORM 3
AIR VOLATILE LAB CONTROL SAMPLE

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 79819

Matrix Spike - STLVT Sample No.: ICV_LCS

COMPOUND	SPIKE ADDED (ppbv)	SAMPLE CONCENTRATION (ug/L)	LCS CONCENTRATION (ppbv)	LCS % REC #	QC. LIMITS REC.
Chloromethane	10		11	110	70-130
Vinyl Chloride	10		11	110	70-130
Bromomethane	10		10	100	70-130
Chloroethane	10		11	110	70-130
Trichlorofluoromethane	10		10	100	70-130
Methylene Chloride	10		10	100	70-130
1,1-Dichloroethane	10		11	110	70-130
Chloroform	10		11	110	70-130
1,1,1-Trichloroethane	10		11	110	70-130
Carbon Tetrachloride	10		10	100	70-130
Benzene	10		10	100	70-130
1,2-Dichloroethane	10		10	100	70-130
Trichloroethene	10		10	100	70-130
1,2-Dichloropropane	10		10	100	70-130
cis-1,3-Dichloropropene	10		11	110	70-130
Toluene	10		9.3	93	70-130
trans-1,3-Dichloroprope	10		11	110	70-130
1,1,2-Trichloroethane	10		10	100	70-130
Tetrachloroethene	10		9.2	92	70-130
Chlorobenzene	10		9.0	90	70-130
Ethylbenzene	10		9.4	94	70-130
Styrene	10		8.8	88	70-130
Xylene (m,p)	20		18	90	70-130
Xylene (o)	10		9.3	93	70-130
1,1,2,2-Tetrachloroetha	10		9.3	93	70-130
1,3-Dichlorobenzene	10		9.0	90	70-130
1,4-Dichlorobenzene	10		8.0	80	70-130
1,2-Dichlorobenzene	10		8.6	86	70-130

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

* Values outside of QC limits

RPD: 0 out of 0 outside limits
Spike Recovery: 0 out of 28 outside limits

COMMENTS: _____

FORM 3
AIR VOLATILE LAB CONTROL SAMPLE

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 79819

Matrix Spike - STLVT Sample No.: Y4_LCS

COMPOUND	SPIKE ADDED (ppbv)	SAMPLE CONCENTRATION (ug/L)	LCS CONCENTRATION (ppbv)	LCS % REC #	QC. LIMITS REC.
Chloromethane	10		8.7	87	70-130
Vinyl Chloride	10		9.5	95	70-130
Bromomethane	10		9.7	97	70-130
Chloroethane	10		9.6	96	70-130
Trichlorofluoromethane	10		9.1	91	70-130
Methylene Chloride	10		8.0	80	70-130
1,1-Dichloroethane	10		8.6	86	70-130
Chloroform	10		9.2	92	70-130
1,1,1-Trichloroethane	10		9.1	91	70-130
Carbon Tetrachloride	10		8.7	87	70-130
Benzene	10		9.0	90	70-130
1,2-Dichloroethane	10		8.8	88	70-130
Trichloroethene	10		9.3	93	70-130
1,2-Dichloropropane	10		9.1	91	70-130
cis-1,3-Dichloropropene	10		8.3	83	70-130
Toluene	10		8.9	89	70-130
trans-1,3-Dichloroprope	10		7.6	76	70-130
1,1,2-Trichloroethane	10		9.2	92	70-130
Tetrachloroethene	10		9.1	91	70-130
Chlorobenzene	10		8.8	88	70-130
Ethylbenzene	10		9.0	90	70-130
Styrene	10		9.0	90	70-130
Xylene (m,p)	20		18	90	70-130
Xylene (o)	10		8.7	87	70-130
1,1,2,2-Tetrachloroetha	10		8.7	87	70-130
1,3-Dichlorobenzene	10		7.9	79	70-130
1,4-Dichlorobenzene	10		8.6	86	70-130
1,2-Dichlorobenzene	10		8.1	81	70-130

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

* Values outside of QC limits

RPD: 0 out of 0 outside limits
Spike Recovery: 0 out of 28 outside limits

COMMENTS: _____

FORM 4
VOLATILE METHOD BLANK SUMMARY

STLVT SAMPLE NO.

ABLKY4

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 79819

Lab File ID: CBB001T Lab Sample ID: ABLKY4

Date Analyzed: 09/22/00 Time Analyzed: 1140

GC Column: DB-1 ID: 0.35 (mm) Heated Purge: (Y/N) N

Instrument ID: W

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

	STLVT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	Y4_LCS	Y4_LCS	CB010TQ	1107
02	028ACAIA0918	430662	430662	1554
03	028ACA2IA091	430663	430663	1628
04	028ACAEA0918	430664	430664	1702
05				
06				
07				
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COMMENTS:

FORM 5
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 79819

Lab File ID: CB001P BFB Injection Date: 07/10/00

Instrument ID: W BFB Injection Time: 0831

GC Column: DB-1 ID: 0.32 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	22.0
75	30.0 - 66.0% of mass 95	49.8
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.6
173	Less than 2.0% of mass 174	0.1 (0.2)1
174	50.0 - 120.0% of mass 95	69.8
175	4.0 - 9.0% of mass 174	4.9 (7.0)1
176	93.0 - 101.0% of mass 174	65.5 (93.8)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	ASTD005	ASTD005	CB005	07/10/00	1021
02	ASTD010	ASTD010	CB010	07/10/00	1055
03	ASTD020	ASTD020	CB020	07/10/00	1131
04	ASTD040	ASTD040	CB040	07/10/00	1208
05	ASTD0005	ASTD0005	CB0005I2	07/10/00	1337
06	ICV_LCS	ICV_LCS	CB010Q	07/10/00	1418
07					
08					
09					
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21					
22					

FORM 5
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 79819

Lab File ID: CB020P BFB Injection Date: 09/22/00

Instrument ID: W BFB Injection Time: 1009

GC Column: DB-1 ID: 0.32 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	20.6
75	30.0 - 66.0% of mass 95	46.7
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.4
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	50.0 - 120.0% of mass 95	67.6
175	4.0 - 9.0% of mass 174	4.7 (7.0)1
176	93.0 - 101.0% of mass 174	64.8 (95.7)1
177	5.0 - 9.0% of mass 176	4.4 (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	ASTD010	ASTD010	CB010T	09/22/00	1028
02	Y4_LCS	Y4_LCS	CB010TQ	09/22/00	1107
03	ABLKY4	ABLKY4	CBB001T	09/22/00	1140
04	028ACAIA0918	430662	430662	09/22/00	1554
05	028ACA2IA091	430663	430663	09/22/00	1628
06	028ACAEA0918	430664	430664	09/22/00	1702
07					
08					
09					
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17					
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19					
20					
21					
22					

FORM 8
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 79819

Lab File ID (Standard): CB010T Date Analyzed: 09/22/00

Instrument ID: W Time Analyzed: 1028

GC Column: DB-1 ID: 0.35 (mm) Heated Purge: (Y/N) N

		IS1 (BCM) AREA #	RT #	IS2 (CBZ) AREA #	RT #	IS3 (DFB) AREA #	RT #
	12 HOUR STD	356062	7.70	1854709	11.84	1669325	9.00
	UPPER LIMIT	854549	8.03	4451302	12.17	4006380	9.33
	LOWER LIMIT	142425	7.37	741884	11.51	667730	8.67
	STLVT SAMPLE NO.						
01	Y4_LCS	373194	7.67	1998941	11.84	1855935	8.99
02	ABLKY4	428269	7.65	2108516	11.82	2034969	8.97
03	028ACAIA0918	283644	7.65	1196483	11.83	1297769	8.97
04	028ACA2IA091	325951	7.64	1382265	11.83	1453433	8.97
05	028ACAEA0918	394112	7.62	1729226	11.82	1737063	8.96
06							
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08							
09							
10							
11							
12							
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18							
19							
20							
21							
22							

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

AREA UPPER LIMIT = +140% of internal standard area
AREA LOWER LIMIT = - 60% of internal standard area
RT UPPER LIMIT = + 0.33 minutes of internal standard RT
RT LOWER LIMIT = - 0.33 minutes of internal standard RT

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

SEVERN TRENT SERVICES

Severn Trent Laboratories, Inc.

METHOD TO-14A
VOLATILE ORGANIC ANALYSIS

SUPPORTIVE DOCUMENTATION

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

ACCANA SAMPLE NO.

028ACA2IA0918

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 79819

Matrix: (soil/water) AIR Lab Sample ID: 430663

Sample wt/vol: 200 (g/mL) ML Lab File ID: 430663

Level: (low/med) LOW Date Received: 09/20/00

% Moisture: not dec. _____ Date Analyzed: 09/22/00

GC Column: DB-1 ID: 0.35 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) PPBV	Q
74-87-3	Chloromethane	0.54	
75-01-4	Vinyl Chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.73	
75-69-4	Trichlorofluoromethane	0.50	U
75-09-2	Methylene Chloride	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
56-23-5	Carbon Tetrachloride	0.50	U
71-43-2	Benzene	1.2	
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-88-3	Toluene	4.4	
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	9.9	
1330-20-7	Xylene (total)	85	
100-42-5	Styrene	0.50	U
1330-20-7	Xylene (m,p)	64	
95-47-6	Xylene (o)	22	
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

ACCANA SAMPLE NO.

028ACA2IA0918

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 79819

Matrix: (soil/water) AIR Lab Sample ID: 430663

Sample wt/vol: 200 (g/mL) ML Lab File ID: 430663

Level: (low/med) LOW Date Received: 09/20/00

% Moisture: not dec. _____ Date Analyzed: 09/22/00

GC Column: DB-1 ID: 0.35 (mm) Dilution Factor: 1.0

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

Number TICs found: 10

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

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		UNKNOWN ALKANE	12.63	57	J
2.		UNKNOWN ALKANE	13.08	60	J
3.		UNKNOWN ALKYLCYCLOHEXANE	13.16	46	J
4.		UNKNOWN	13.21	64	J
5.		UNKNOWN ALKANE W/ALKYLBENZEN	13.39	150	JZ
6.		UNKNOWN C3-ALKYLBENZENE	13.46	45	J
7.		UNKNOWN C3-ALKYLBENZENE	13.78	110	J
8.		UNKNOWN	13.98	52	J
9.		UNKNOWN	14.31	70	J
10.		UNKNOWN DECAHYDRONAPHTHALENE	14.75	27	J
11.					
12.					
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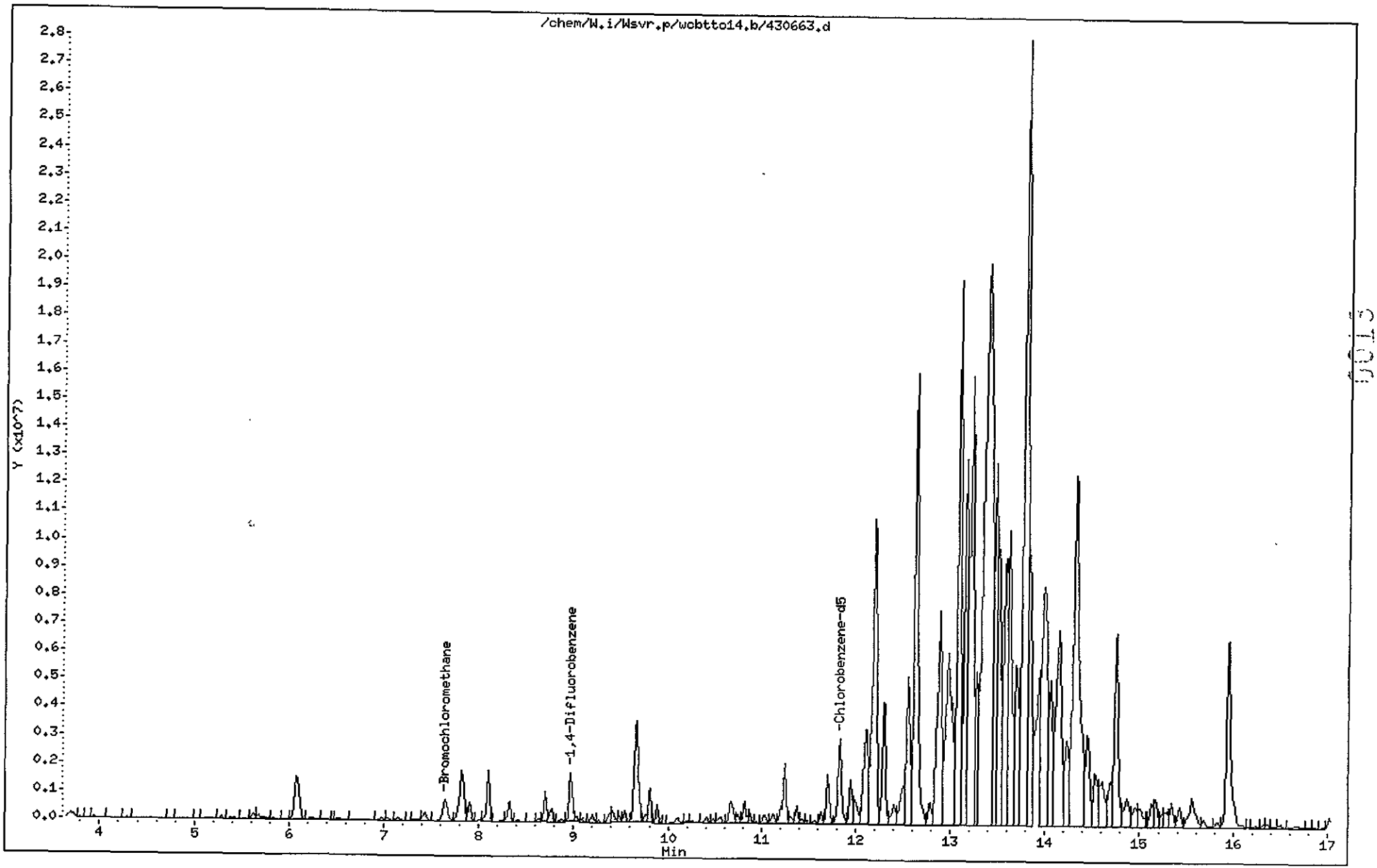
Data File: /chem/W.i/Wsvr.p/wcbtto14.b/430663.d
Date : 22-SEP-2000 16:28
Client ID: 028ACA2IA0918
Sample Info: 430663;028ACA2IA0918;79819;0922Y4
Purge Volume: 200.0
Column phase: DB-1

Instrument: W.i

Operator: GMM
Column diameter: 0.35



STL Burlington

AIR TOXICS QUANTITATION REPORT

Data file : /chem/W.i/Wsvr.p/wcbtto14.b/430663.d
Lab Smp Id: 430663 Client Smp ID: 028ACA2IA0918
Inj Date : 22-SEP-2000 16:28
Operator : GMM Inst ID: W.i
Smp Info : 430663;028ACA2IA0918;79819;0922Y4
Misc Info :
Comment :
Method : /chem/W.i/Wsvr.p/wcbtto14.b/ato14.m
Meth Date : 29-Sep-2000 10:30 cmp Quant Type: ISTD
Cal Date : 10-JUL-2000 13:37 Cal File: cb0005i2.d
Als bottle: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ACCANA.sub
Target Version: 3.50
Processing Host: chemsvr4

Concentration Formula: Amt * DF * X* Uf/Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
X	200.00000	method volume factor
Uf	1.00000	ng unit correction factor
Vo	200.00000	Sample Volume purged (mL)

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	FINAL (ppbv)	
2	Chloromethane	50	3.954	4.056	(0.518)	12743	0.53935	0.54	
4	Vinyl Chloride	62	Compound Not Detected.						
5	Bromomethane	94	Compound Not Detected.						
6	Chloroethane	64	4.733	4.849	(0.620)	10932	0.73226	0.73	
7	Trichlorofluoromethane	101	Compound Not Detected.						
9	Methylene Chloride	49	Compound Not Detected.						
11	1,1-Dichloroethane	63	Compound Not Detected.						
* 13	Bromochloromethane	128	7.637	7.698	(1.000)	325951	10.0000		(Q)
14	Chloroform	83	Compound Not Detected.						
15	1,2-Dichloroethane	62	Compound Not Detected.						
16	1,1,1-Trichloroethane	97	Compound Not Detected.						
17	Benzene	78	8.760	8.791	(0.976)	118434	1.19037	1.2	
18	Carbon Tetrachloride	117	Compound Not Detected.						
* 19	1,4-Difluorobenzene	114	8.972	9.003	(1.000)	1453433	10.0000		
20	1,2-Dichloropropane	63	Compound Not Detected.						

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	FINAL (ppbv)
	21 Trichloroethene	95	Compound Not Detected.					
	22 cis-1,3-Dichloropropene	75	Compound Not Detected.					
	23 trans-1,3-Dichloropropene	75	Compound Not Detected.					
	24 1,1,2-Trichloroethane	83	Compound Not Detected.					
	25 Toluene	92	10.657	10.688	(0.901)	305255	4.40702	4.4
	27 Tetrachloroethene	166	Compound Not Detected.					
*	28 Chlorobenzene-d5	117	11.825	11.841	(1.000)	1382265	10.0000	
	29 Chlorobenzene	112	Compound Not Detected.					
	30 Ethylbenzene	91	12.083	12.099	(1.022)	1539927	9.94862	9.9
	31 Xylene (m,p)	106	12.205	12.220	(1.032)	3604820	63.5838	64
	32 Styrene	104	Compound Not Detected.					
M	33 Xylene (total)	106				4807334	85.2958	85
	34 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					
	35 Xylene (o)	106	12.539	12.539	(1.060)	1202514	21.7121	22
	38 1,3-Dichlorobenzene	146	Compound Not Detected.					
	39 1,4-Dichlorobenzene	146	Compound Not Detected.					
	40 1,2-Dichlorobenzene	146	Compound Not Detected.					

QC Flag Legend

Q - Qualifier signal failed the ratio test.

STL Burlington

AIR TOXICS QUANTITATION REPORT

Data file : /chem/W.i/Wsvr.p/wcbtto14.b/430663.d
Lab Smp Id: 430663 Client Smp ID: 028ACA2IA0918
Inj Date : 22-SEP-2000 16:28
Operator : GMM Inst ID: W.i
Smp Info : 430663;028ACA2IA0918;79819;0922Y4
Misc Info :
Comment :
Method : /chem/W.i/Wsvr.p/wcbtto14.b/ato14.m
Meth Date : 29-Sep-2000 10:30 cmp Quant Type: ISTD
Cal Date : 10-JUL-2000 13:37 Cal File: cb0005i2.d
Als bottle: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ACCANA.sub
Target Version: 3.50
Processing Host: chemsvr4

Concentration Formula: Amt * DF * X* Uf/Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
X	200.00000	method volume factor
Uf	1.00000	ng unit correction factor
Vo	200.00000	Sample Volume purged (mL)

Cpnd Variable Local Compound Variable

ISTD	RT	AREA	AMOUNT
* 28 Chlorobenzene-d5	11.825	8068290	10.000

		CONCENTRATIONS			QUANT		
RT	AREA	ON-COL(ppbv)	FINAL(ppbv)	QUAL	LIBRARY	LIB ENTRY	CPND #
Unknown alkane				CAS #:			
12.630	46344174	57.4398911	57	0		0	28
Unknown alkane				CAS #:			
13.085	48363297	59.9424326	60	0		0	28

RT	AREA	CONCENTRATIONS ON-COL(ppbv)	FINAL(ppbv)	QUAL	QUANT LIBRARY	LIB ENTRY	CPND #
Unknown alkylcyclohexane				CAS #:			
13.161	36788120	45.5959272	46	0		0	28
Unknown				CAS #:			
13.206	51318753	63.6054828	64	0		0	28
Unknown alkane W/alkylbenzene				CAS #:			
13.388	1.206e+08	149.422659	150	0		0	28
Unknown C3-alkylbenzene				CAS #:			
13.464	36665945	45.4445018	45	0		0	28
Unknown C3-alkylbenzene				CAS #:			
13.783	92767571	114.977972	110	0		0	28
Unknown				CAS #:			
13.980	41766032	51.7656509	52	0		0	28
Unknown				CAS #:			
14.314	56601171	70.1526175	70	0		0	28
Unknown decahydronaphthalene				CAS #:			
14.754	21796384	27.0148716	27	0		0	28

Data File: /chem/W.i/Wsvr.p/wcbtto14.b/430663.d

Date : 22-SEP-2000 16:28

Client ID: 028ACA2IA0918

Instrument: W.i

Sample Info: 430663;028ACA2IA0918;79819;0922Y4

Purge Volume: 200.0

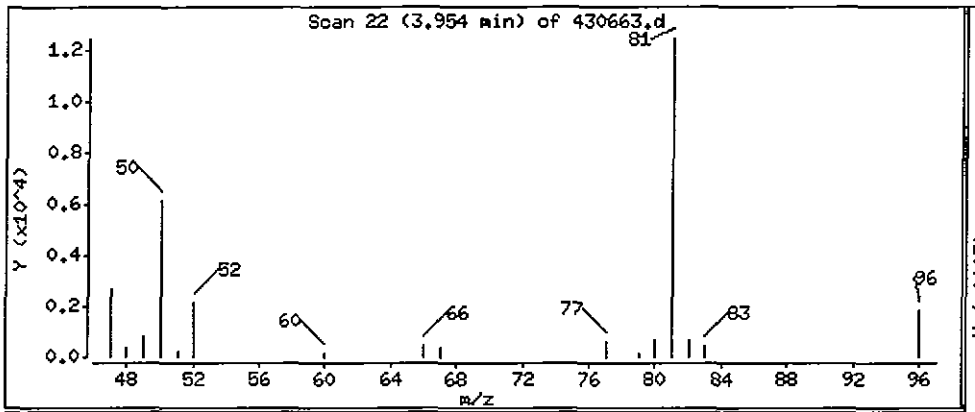
Operator: GMM

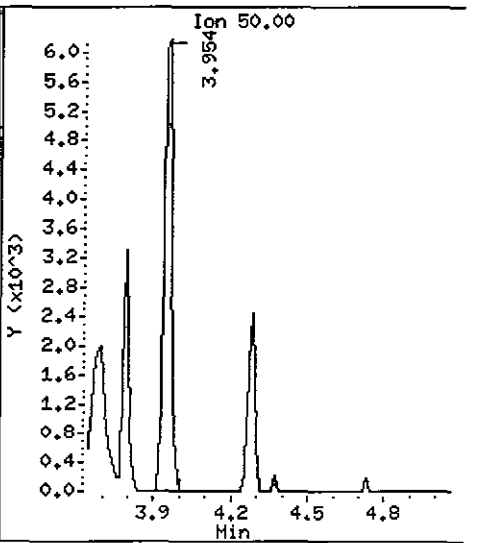
Column phase: DB-1

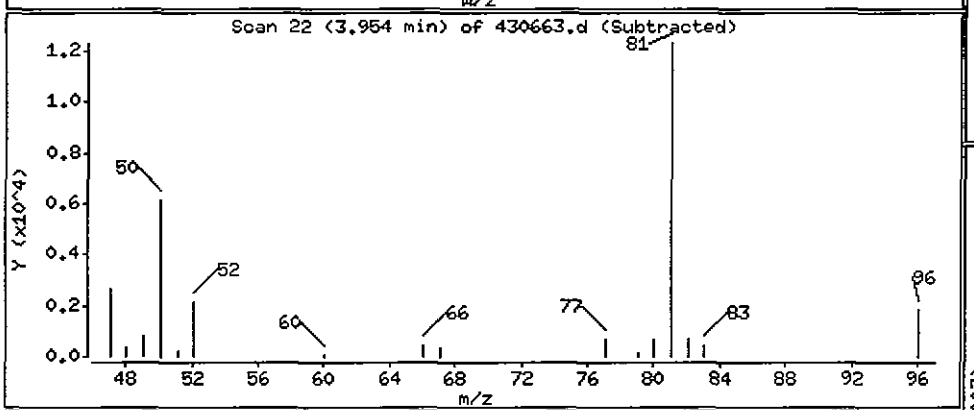
Column diameter: 0.35

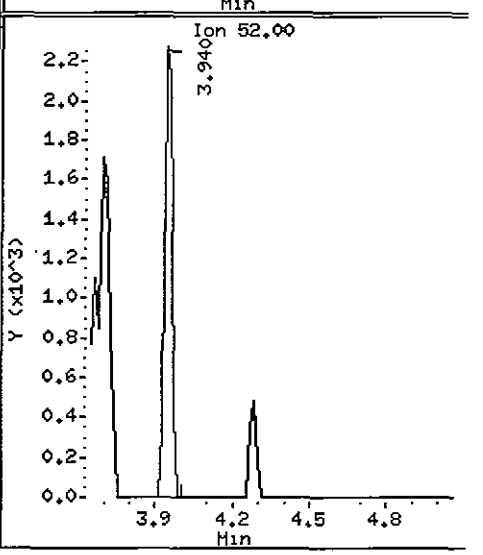
2 Chloromethane

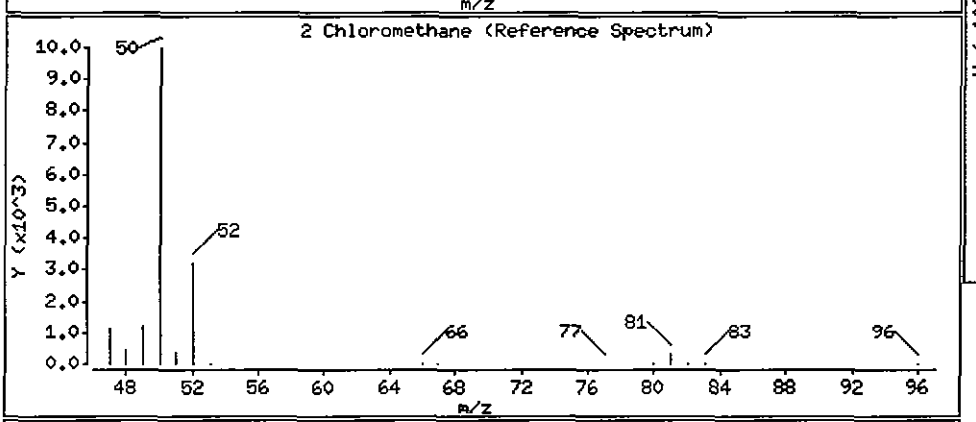
Concentration: 0.54 ppbv

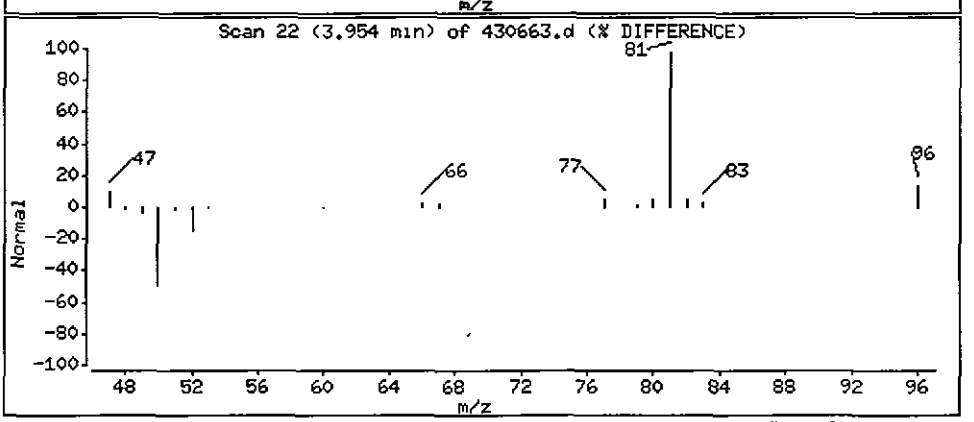












Data File: /chem/W.i/Wsvr.p/wcbtto14.b/430663.d

Date : 22-SEP-2000 16:28

Client ID: 028ACA2IA0918

Instrument: W.i

Sample Info: 430663;028ACA2IA0918;79819;0922Y4

Purge Volume: 200.0

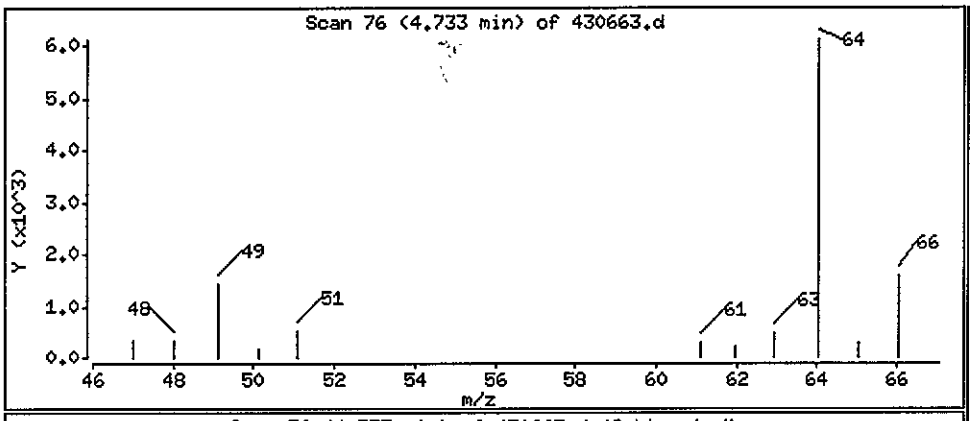
Operator: GMM

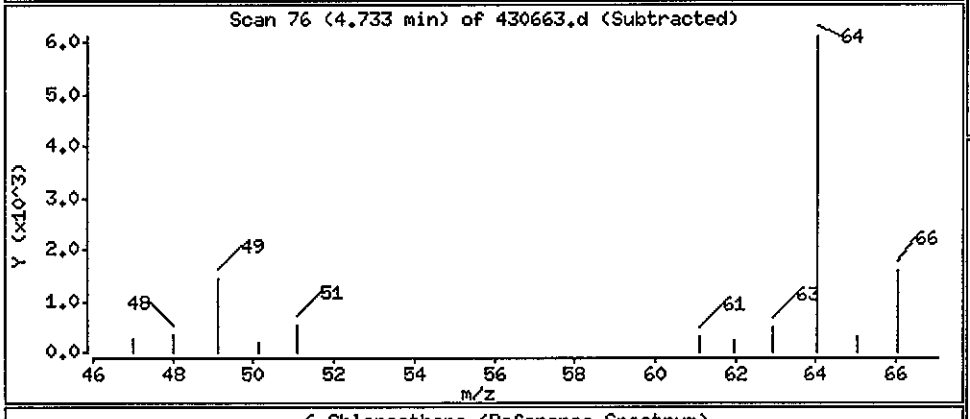
Column phase: DB-1

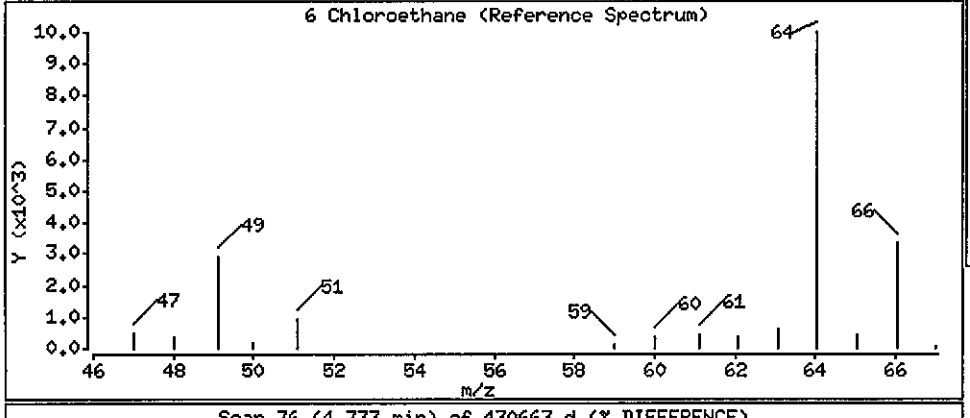
Column diameter: 0.35

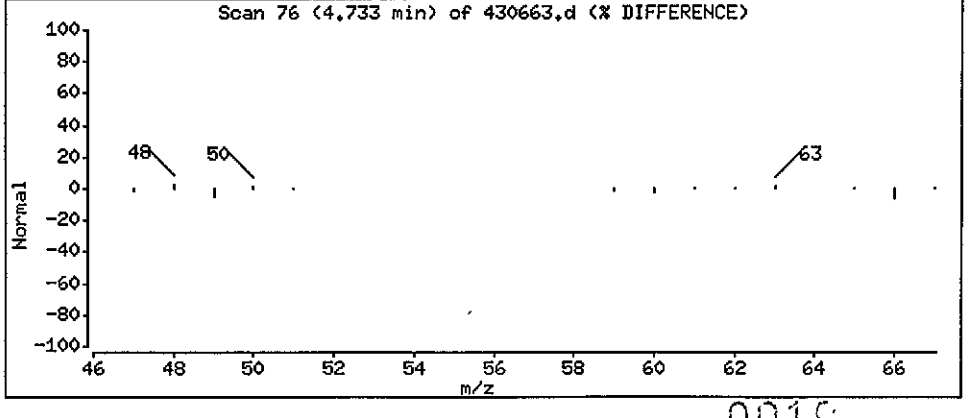
6 Chloroethane

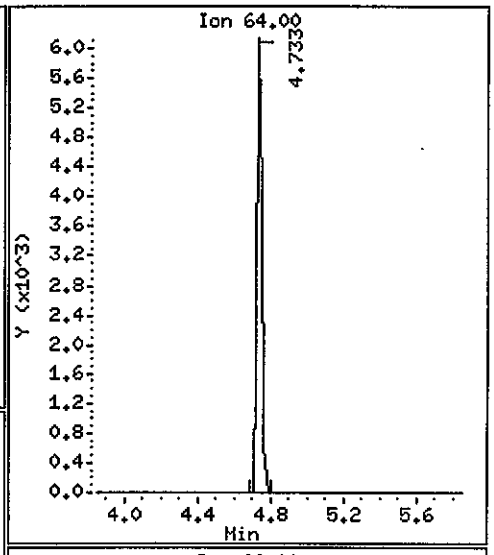
Concentration: 0.73 ppbv

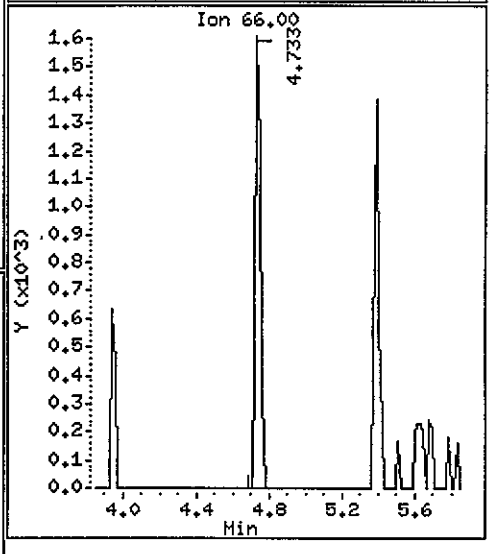












Data File: /chem/W.i/Wsvr.p/wcbtto14.b/430663.d

Date : 22-SEP-2000 16:28

Client ID: 028ACA2IA0918

Instrument: W.i

Sample Info: 430663;028ACA2IA0918;79819;0922Y4

Purge Volume: 200.0

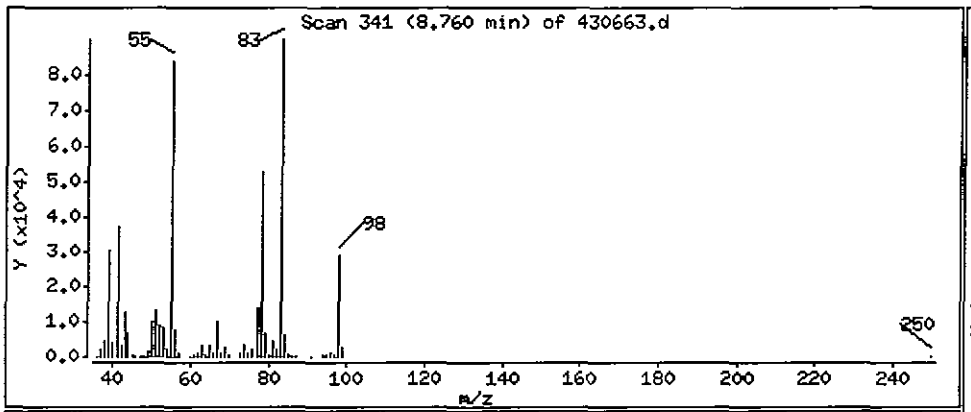
Operator: GMH

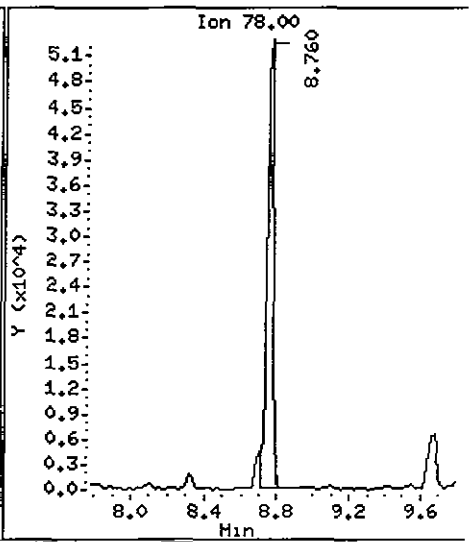
Column phase: DB-1

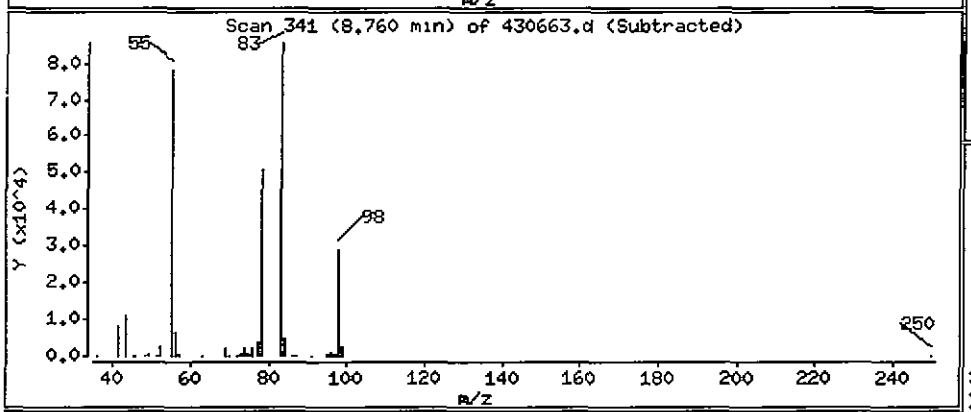
Column diameter: 0.35

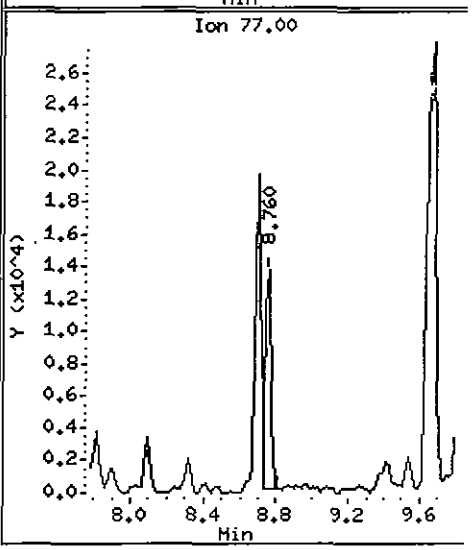
17 Benzene

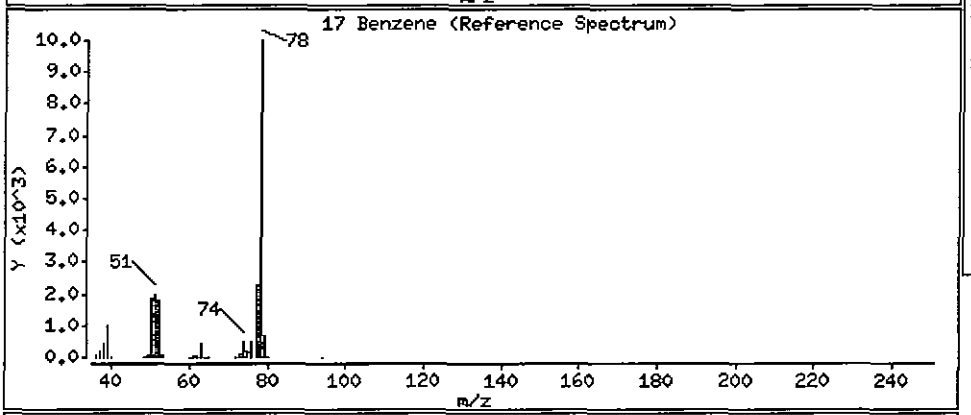
Concentration: 1.2 ppbv

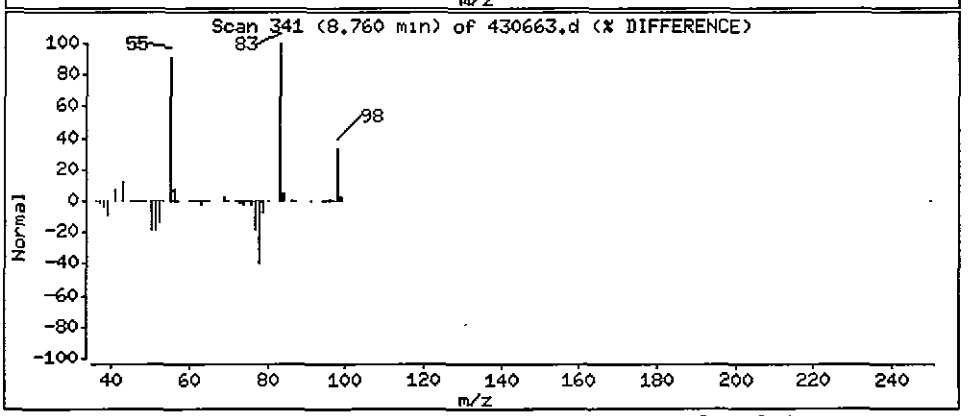












Data File: /chem/W.i/Wsvr.p/wcbtto14.b/430663.d

Date : 22-SEP-2000 16:28

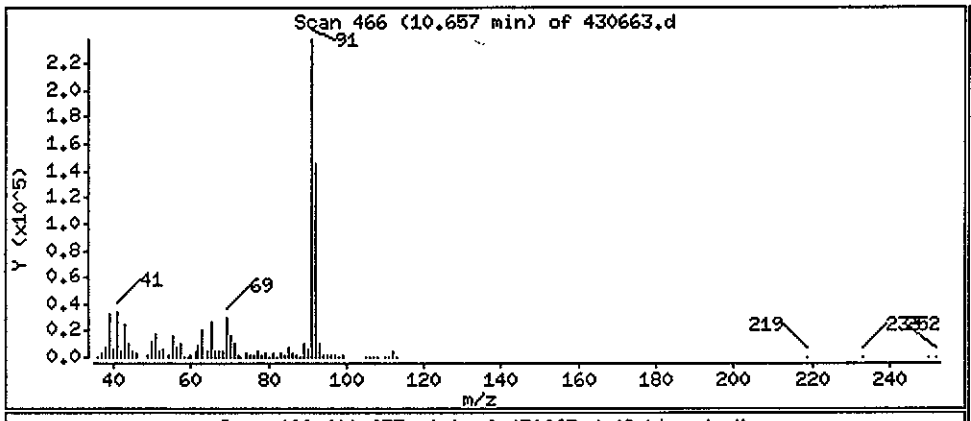
Client ID: 028ACA2IA0918 Instrument: W.i

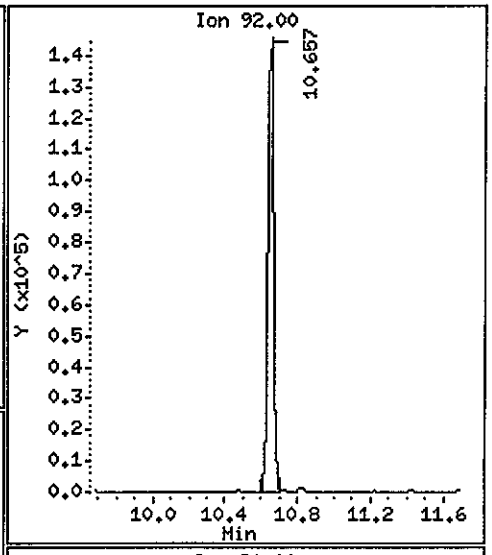
Sample Info: 430663;028ACA2IA0918;79819;0922Y4

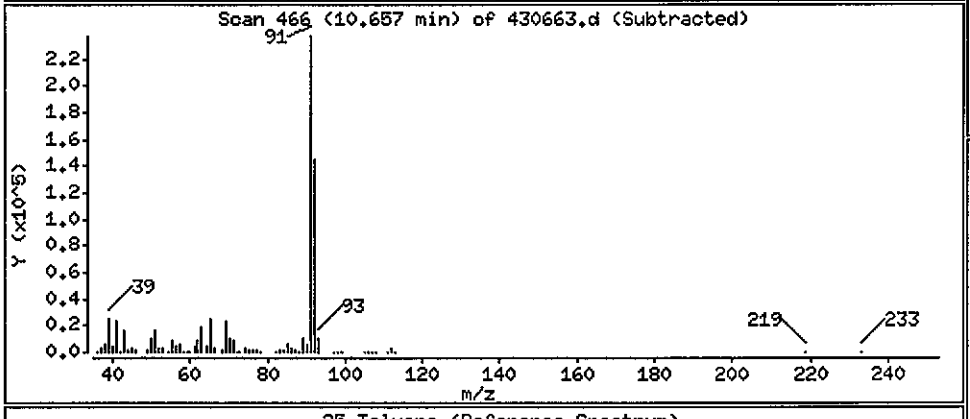
Purge Volume: 200.0 Operator: GMM

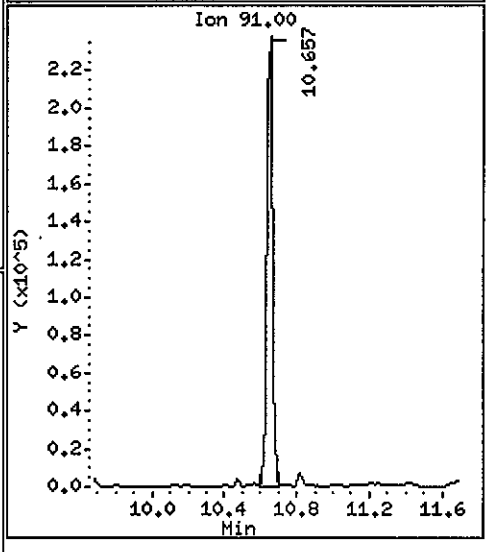
Column phase: DB-1 Column diameter: 0.35

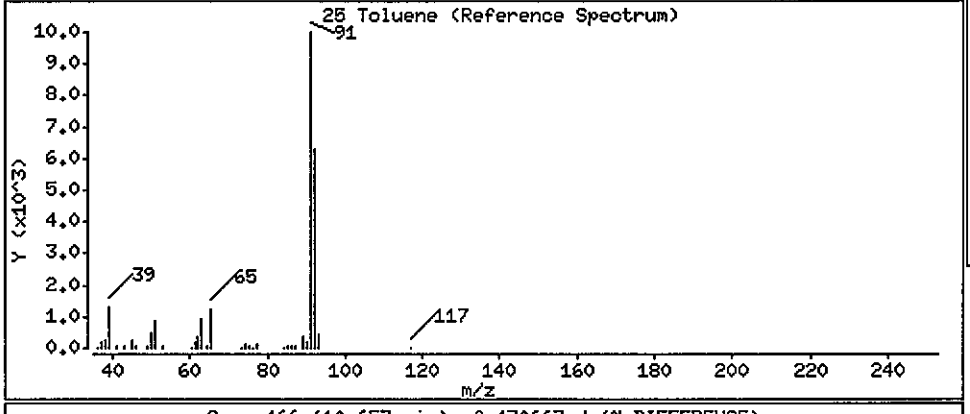
25 Toluene Concentration: 4.4 ppbv

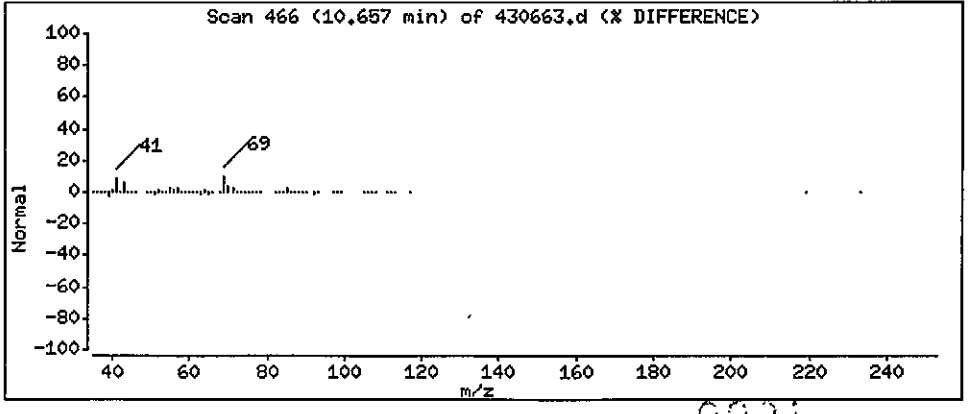












Data File: /chem/W.i/Wsvr.p/wcbtto14.b/430663.d

Date : 22-SEP-2000 16:28

Client ID: 028ACA2IA0918

Instrument: W.i

Sample Info: 430663;028ACA2IA0918;79819;0922Y4

Purge Volume: 200.0

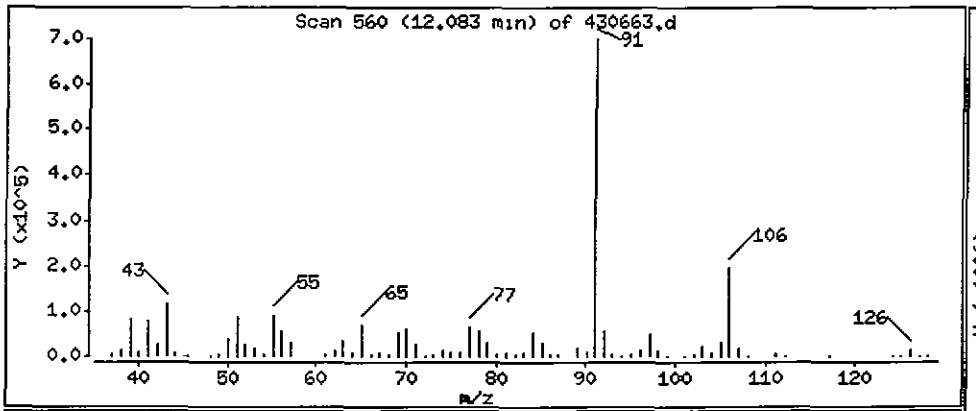
Operator: GMH

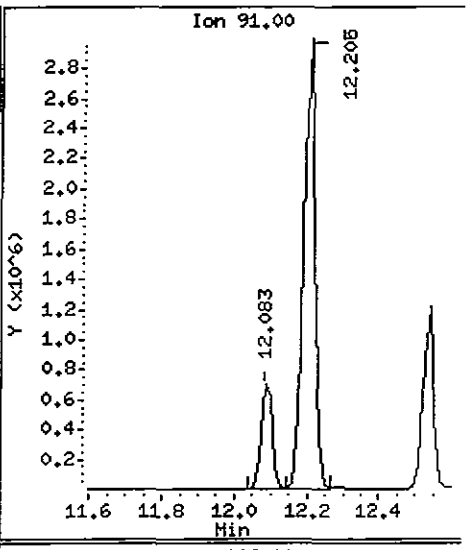
Column phase: DB-1

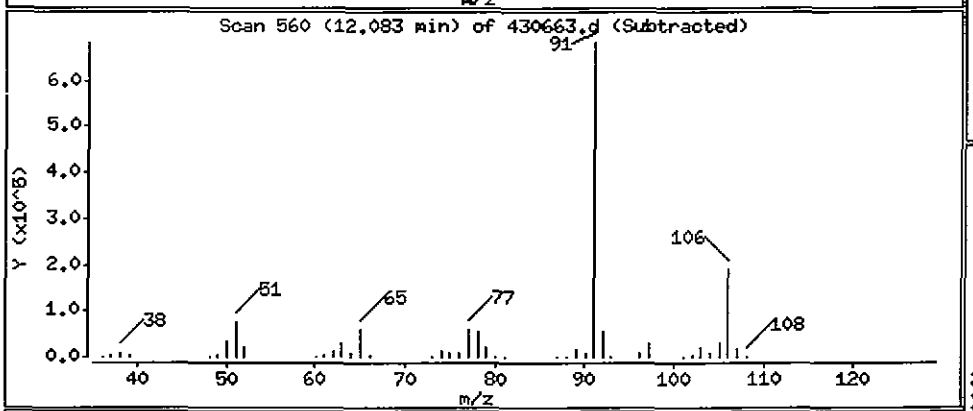
Column diameter: 0.35

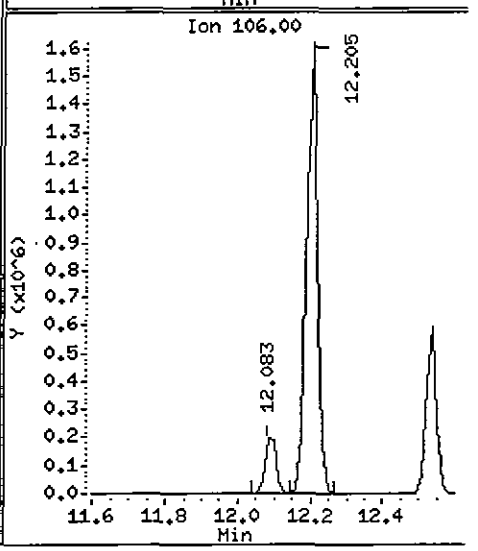
30 Ethylbenzene

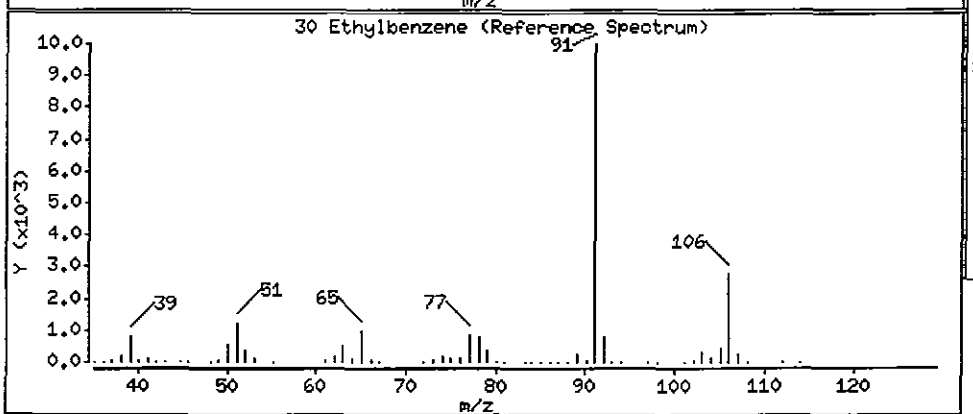
Concentration: 9.9 ppbv

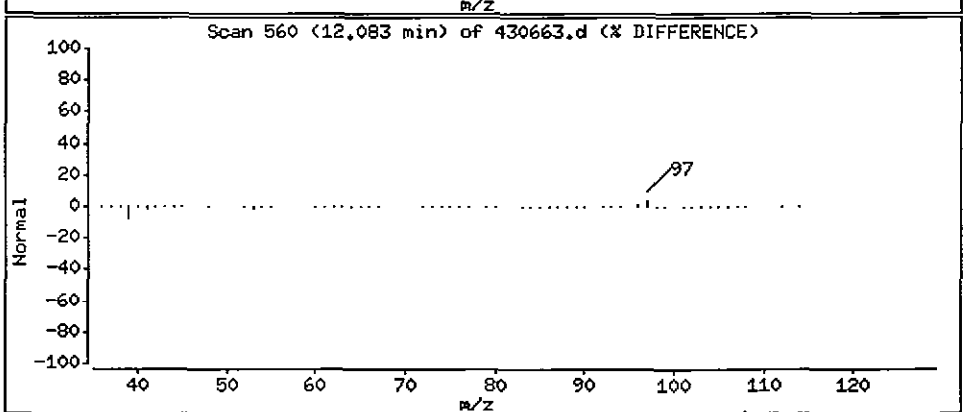












Data File: /chem/W.i/Wsvr.p/wcbtto14.b/430663.d

Date : 22-SEP-2000 16:28

Client ID: 028ACA2IA0918

Instrument: W.i

Sample Info: 430663;028ACA2IA0918;79819;0922Y4

Purge Volume: 200.0

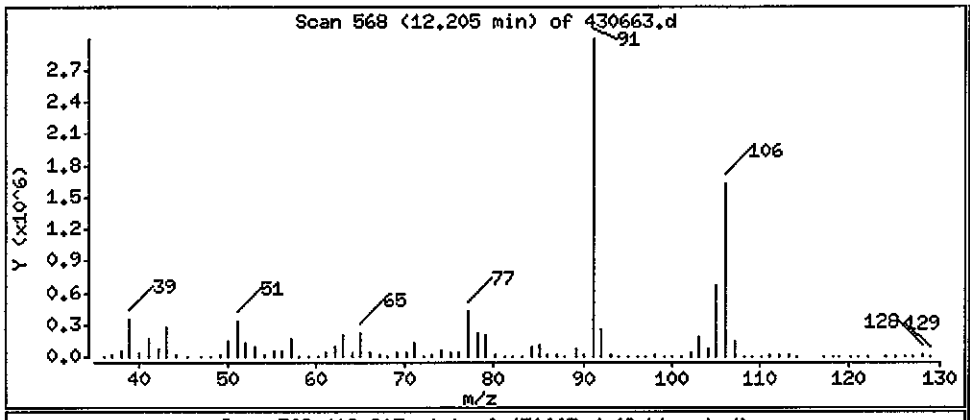
Operator: GMM

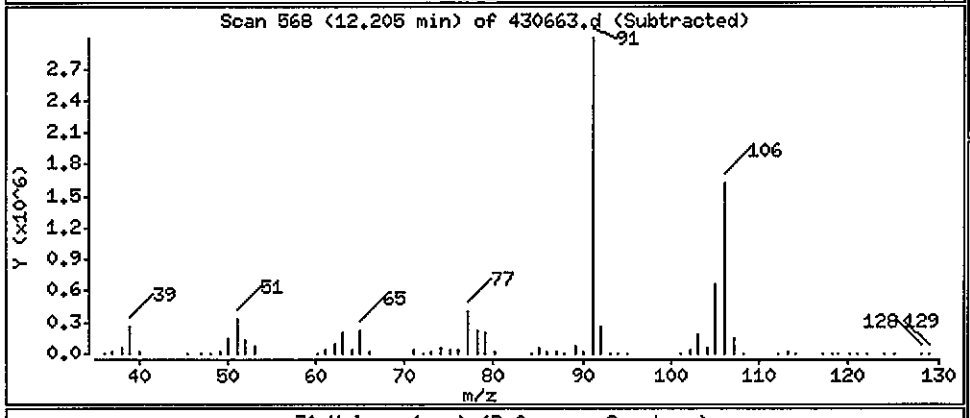
Column phase: DB-1

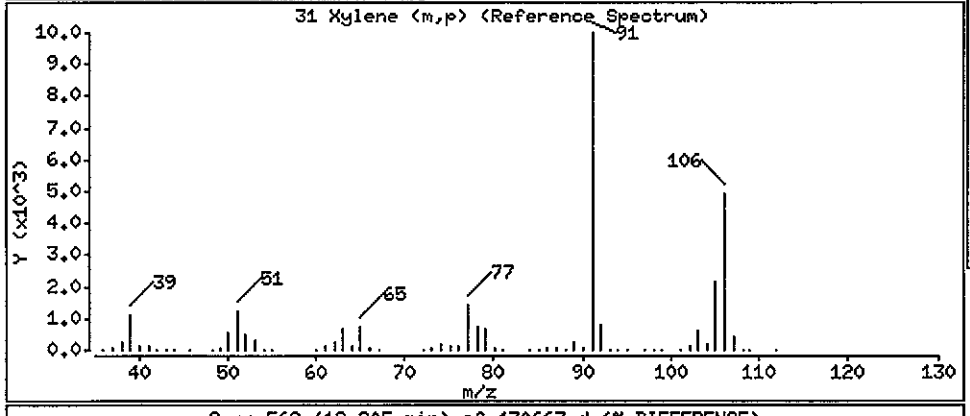
Column diameter: 0.35

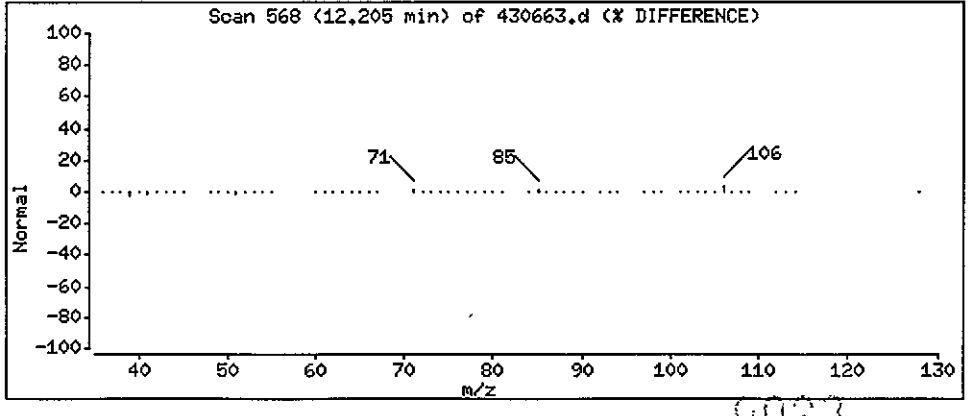
31 Xylene (m,p)

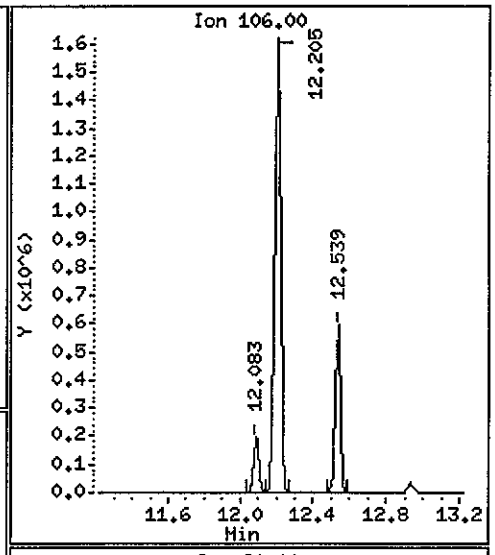
Concentration: 64 ppbv

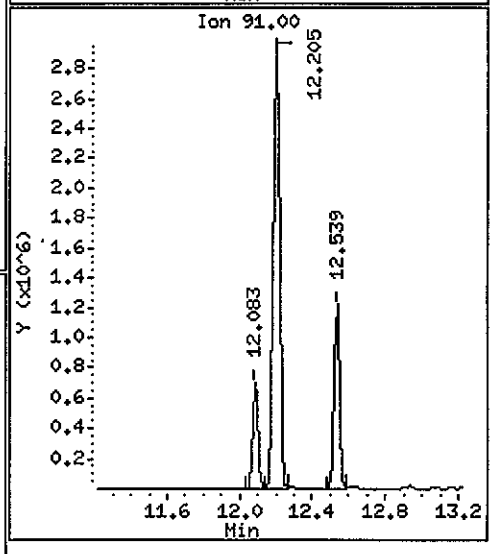












0023

Data File: /chem/W.i/Wsvr.p/wcbtto14.b/430663.d

Date : 22-SEP-2000 16:28

Client ID: 028ACA2IA0918

Instrument: W.i

Sample Info: 430663;028ACA2IA0918;79819;0922Y4

Purge Volume: 200.0

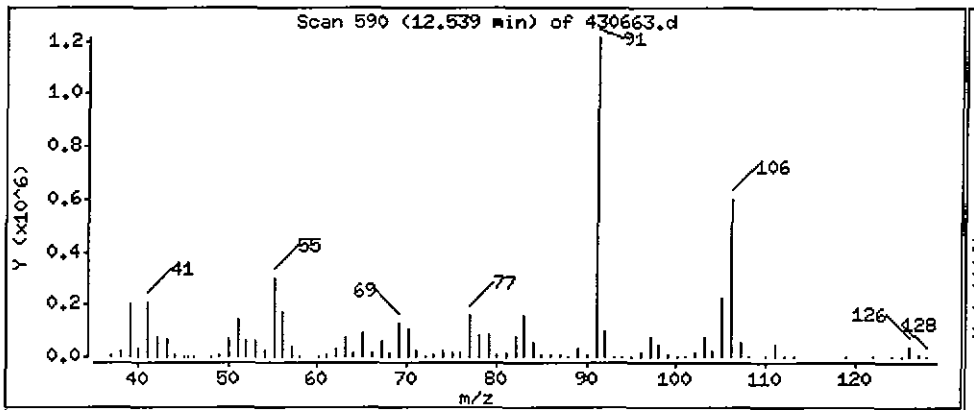
Operator: GHH

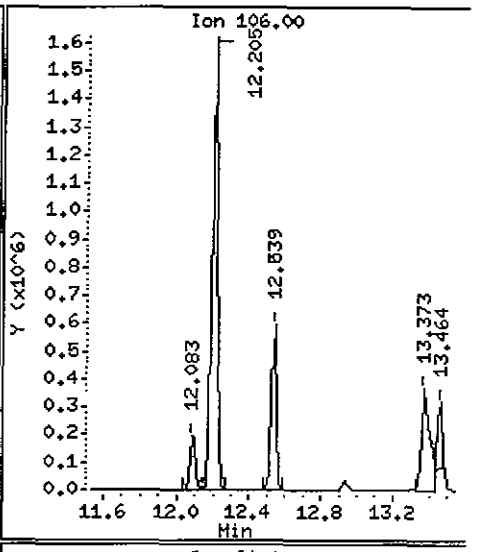
Column phase: DB-1

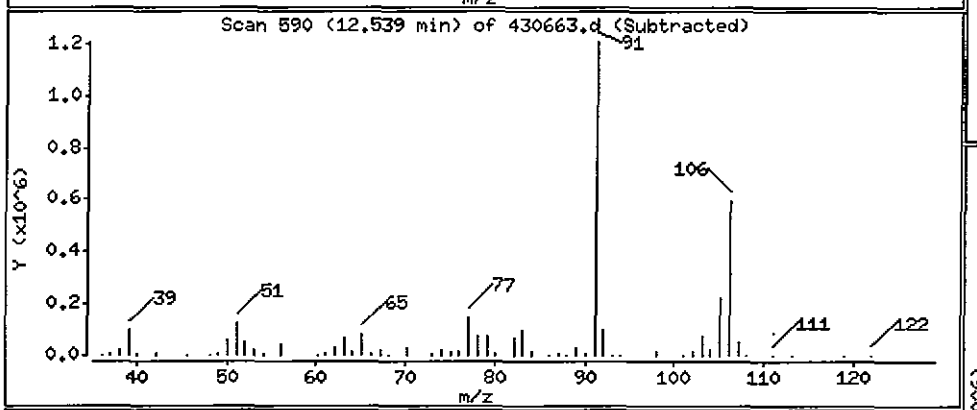
Column diameter: 0.35

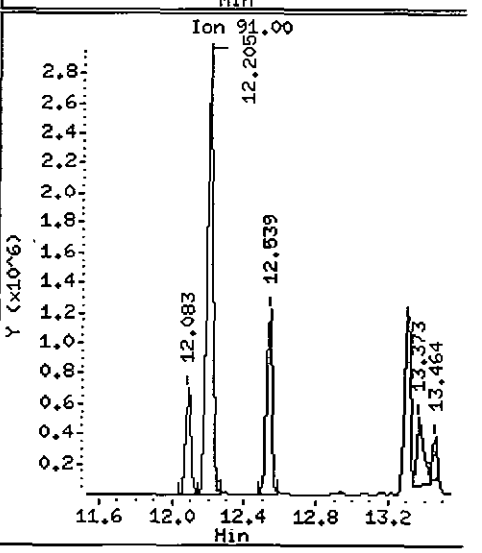
35 Xylene (o)

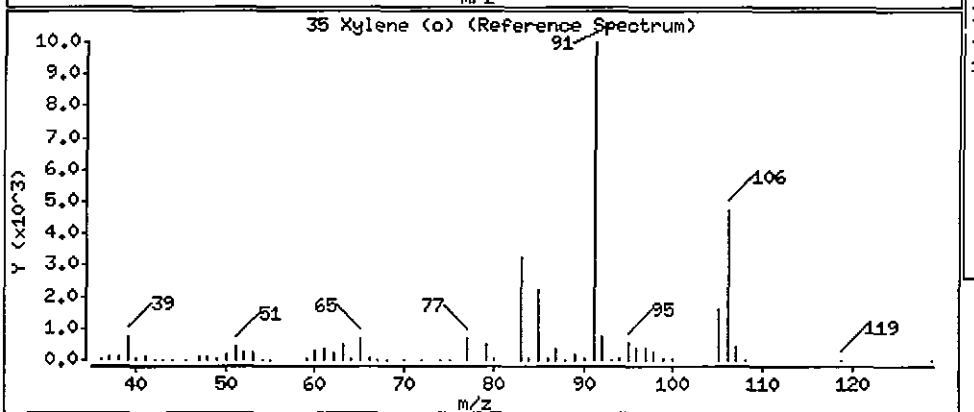
Concentration: 22 ppbv

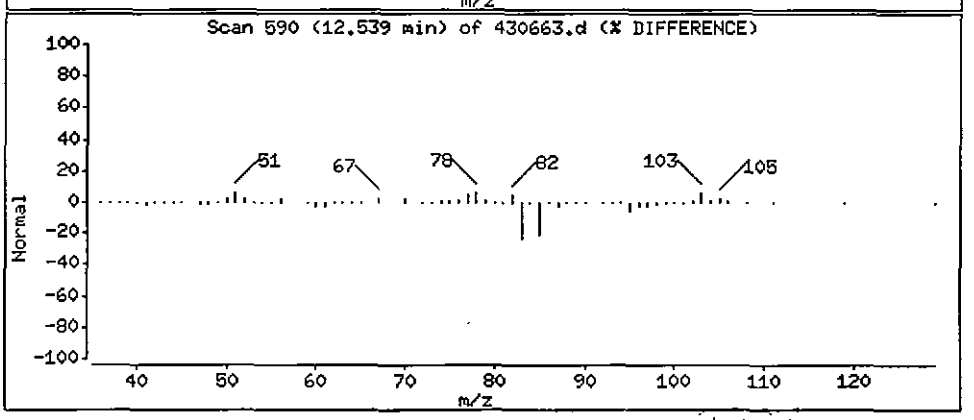












Data File: /chem/W.i/Wsvr.p/wcbtto14.b/430663.d

Date : 22-SEP-2000 16:28

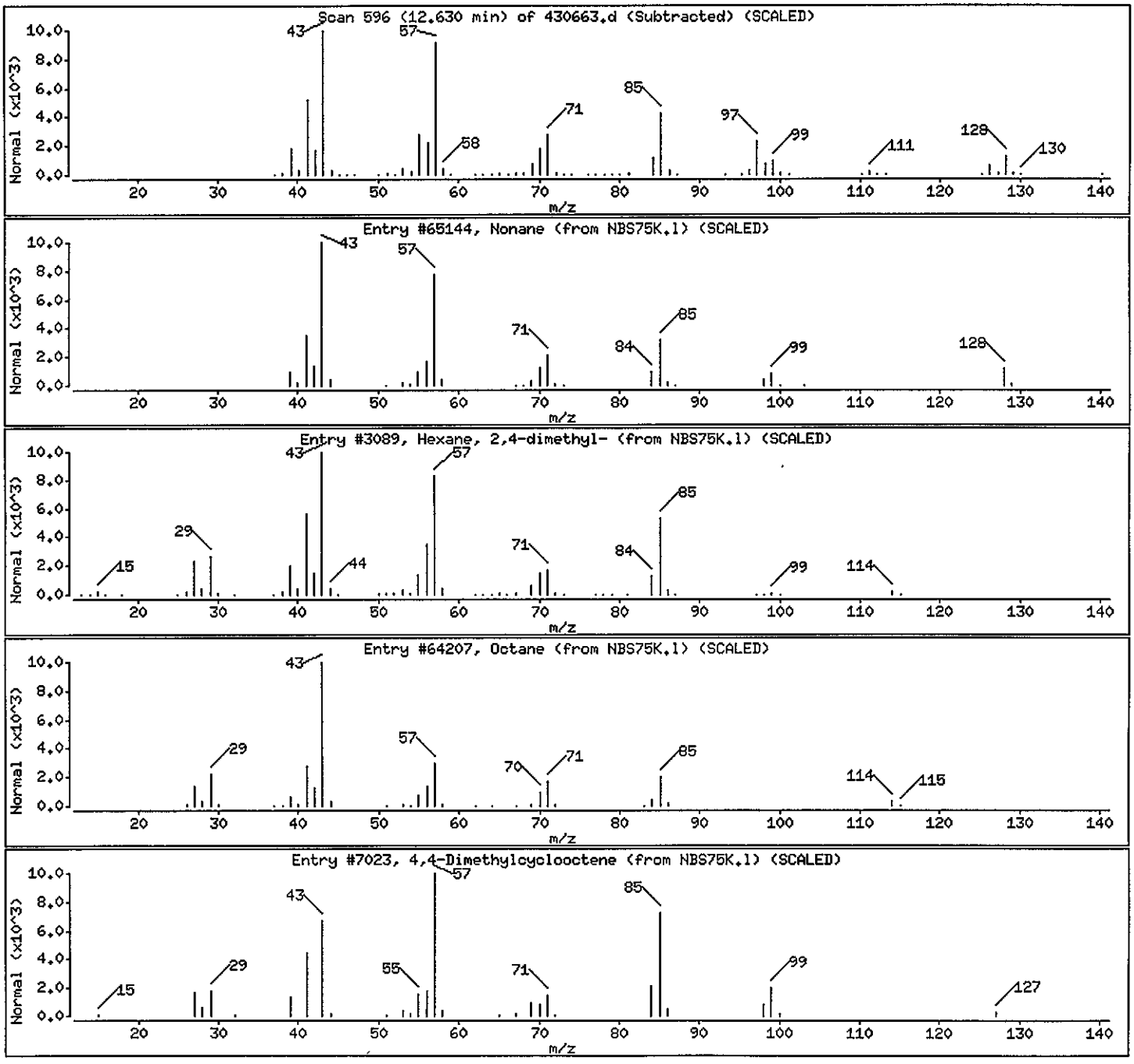
Client ID: 028ACA2IA0918 Instrument: W.i

Sample Info: 430663;028ACA2IA0918;79819;0922Y4

Purge Volume: 200.0 Operator: GMH

Column phase: DB-1 Column diameter: 0.35

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown alkane						
Nonane	111-84-2	NBS75K.l	65144	96	C9H20	128
Hexane, 2,4-dimethyl-	589-43-5	NBS75K.l	3089	50	C8H18	114
Octane	111-65-9	NBS75K.l	64207	49	C8H18	114
4,4-Dimethylcyclooctene	0-00-0	NBS75K.l	7023	47	C10H18	138



Data File: /chem/W.i/Wsvr.p/wcbtto14.b/430663.d

Date : 22-SEP-2000 16:28

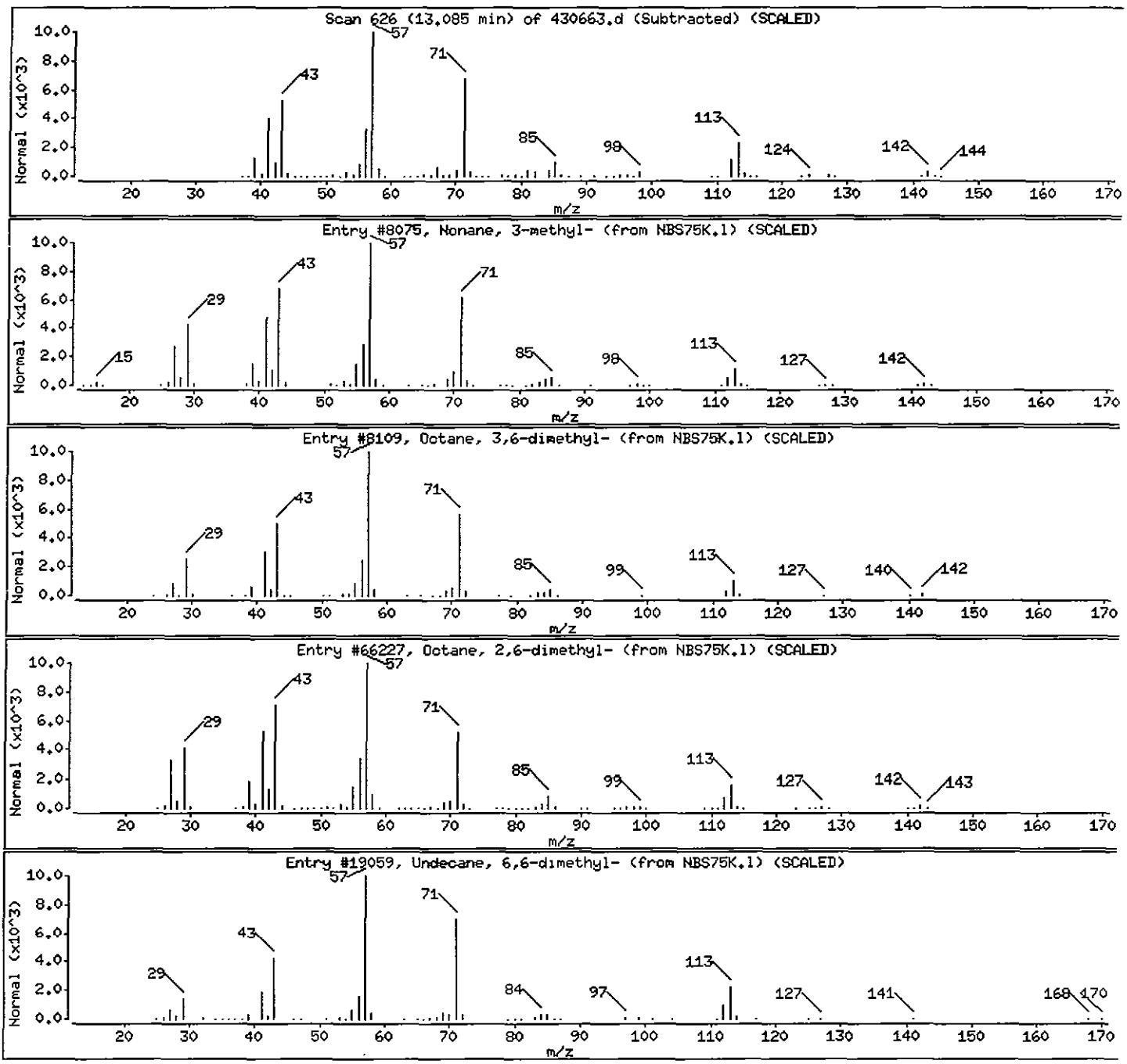
Client ID: 028ACA2IA0918 Instrument: W.i

Sample Info: 430663;028ACA2IA0918;79819;0922Y4

Purge Volume: 200.0 Operator: GMM

Column phase: DB-1 Column diameter: 0.35

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown alkane						
Nonane, 3-methyl-	5911-04-6	NBS75K.l	8075	90	C10H22	142
Octane, 3,6-dimethyl-	15869-94-0	NBS75K.l	8109	87	C10H22	142
Octane, 2,6-dimethyl-	2051-30-1	NBS75K.l	66227	64	C10H22	142
Undecane, 6,6-dimethyl-	17312-76-4	NBS75K.l	19059	59	C13H28	184



Data File: /chem/W.i/Wsvr.p/wcbtto14.b/430663.d

Date : 22-SEP-2000 16:28

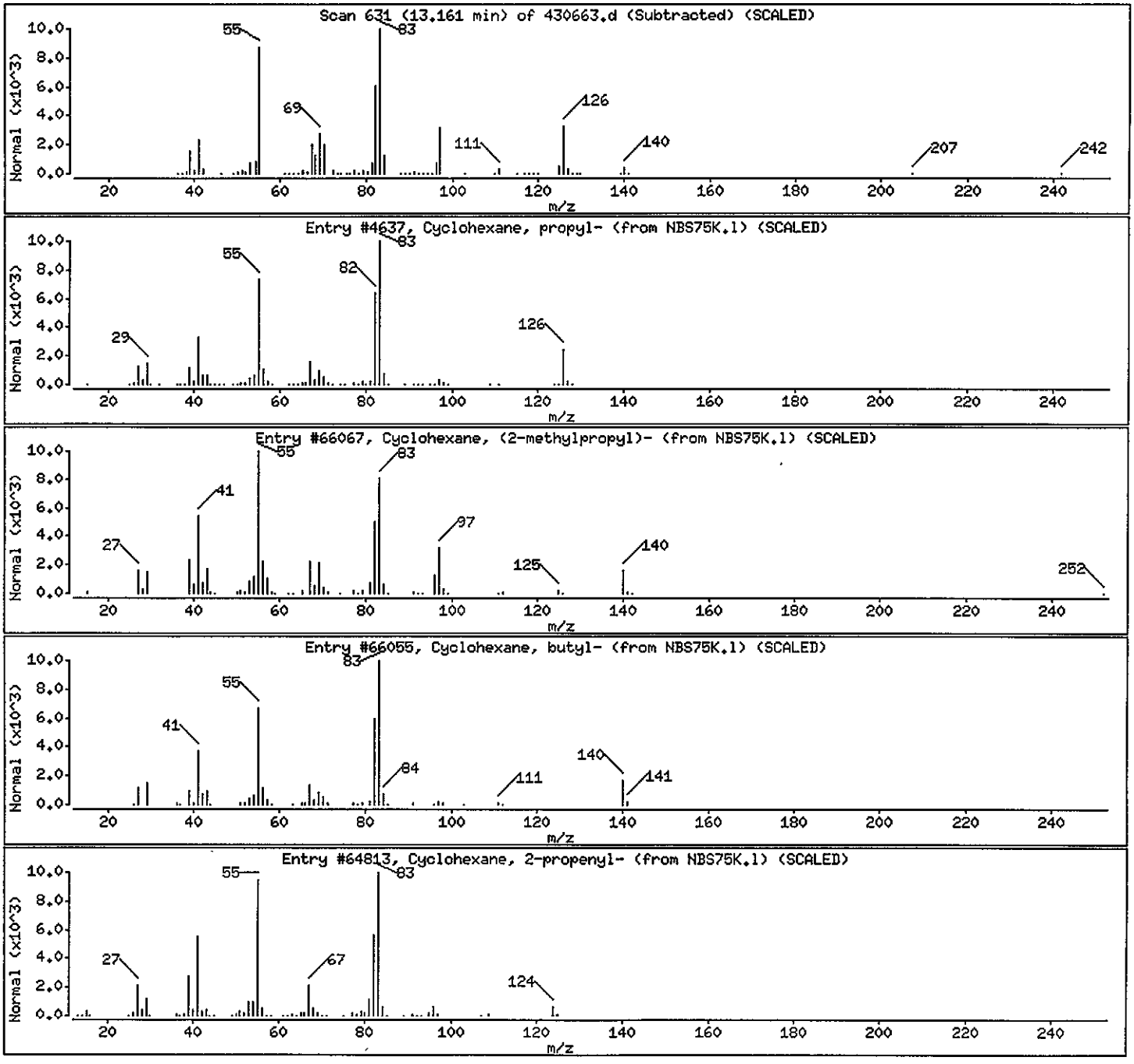
Client ID: 028ACA2IA0918 Instrument: W.i

Sample Info: 430663;028ACA2IA0918;79819;0922Y4

Purge Volume: 200.0 Operator: GMM

Column phase: DB-1 Column diameter: 0.35

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown alkylcyclohexane						
Cyclohexane, propyl-	1678-92-8	NBS75K.l	4637	74	C9H18	126
Cyclohexane, (2-methylpropyl)-	1678-98-4	NBS75K.l	66067	72	C10H20	140
Cyclohexane, butyl-	1678-93-9	NBS75K.l	66055	59	C10H20	140
Cyclohexane, 2-propenyl-	2114-42-3	NBS75K.l	64813	53	C9H16	124



Data File: /chem/W.i/Wsvr.p/wcbtto14.b/430663.d

Date : 22-SEP-2000 16:28

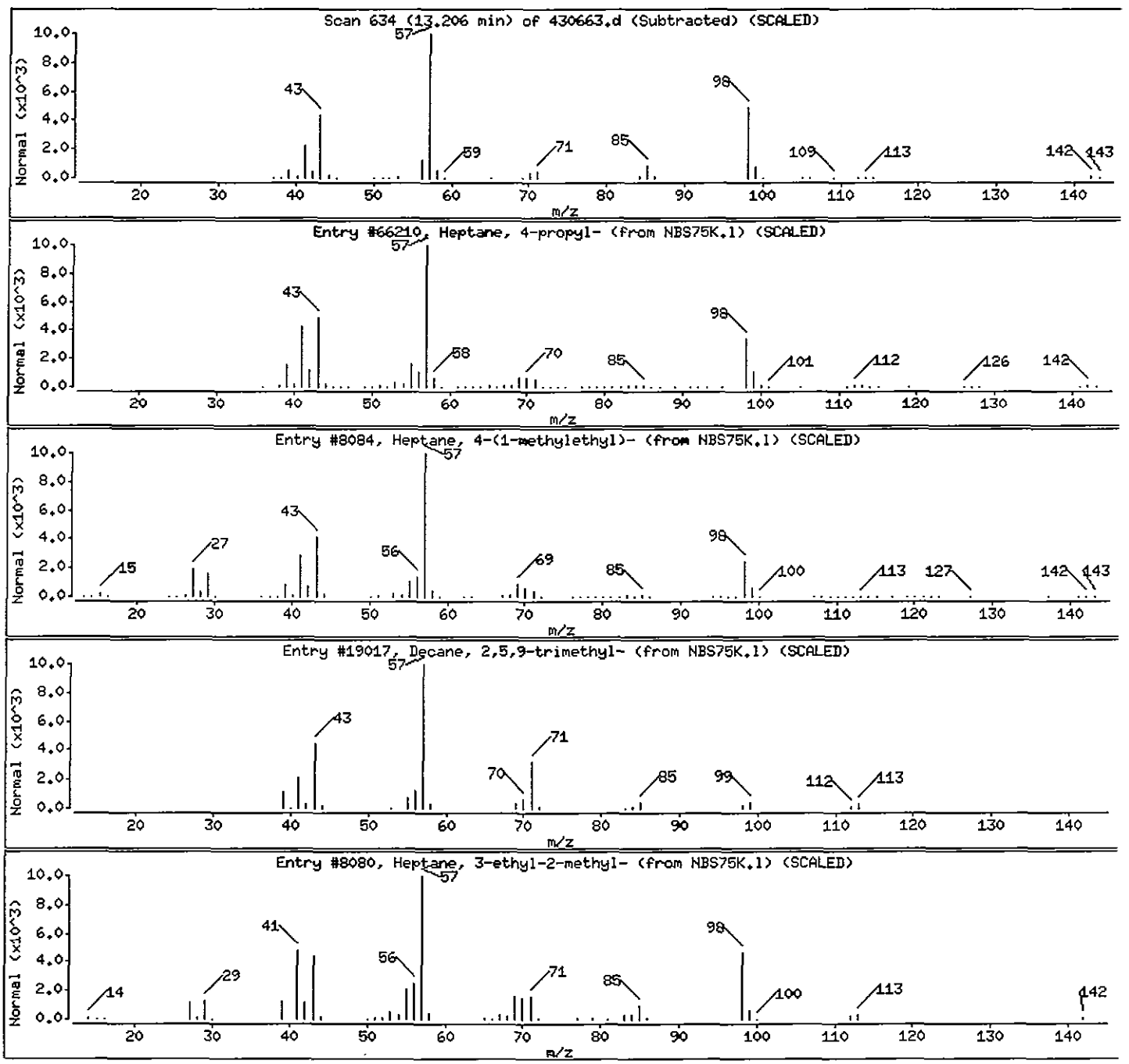
Client ID: 028ACA2IA0918 Instrument: W.i

Sample Info: 430663;028ACA2IA0918;79819;0922Y4

Purge Volume: 200.0 Operator: GMH

Column phase: DB-1 Column diameter: 0.35

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Heptane, 4-propyl-	3178-29-8	NBS75K.l	66210	59	C10H22	142
Heptane, 4-(1-methylethyl)-	52896-87-4	NBS75K.l	8084	50	C10H22	142
Decane, 2,5,9-trimethyl-	62108-22-9	NBS75K.l	19017	43	C13H28	184
Heptane, 3-ethyl-2-methyl-	14676-29-0	NBS75K.l	8080	42	C10H22	142



Data File: /chem/W.i/Wsvr.p/wcbtto14.b/430663.d

Date : 22-SEP-2000 16:28

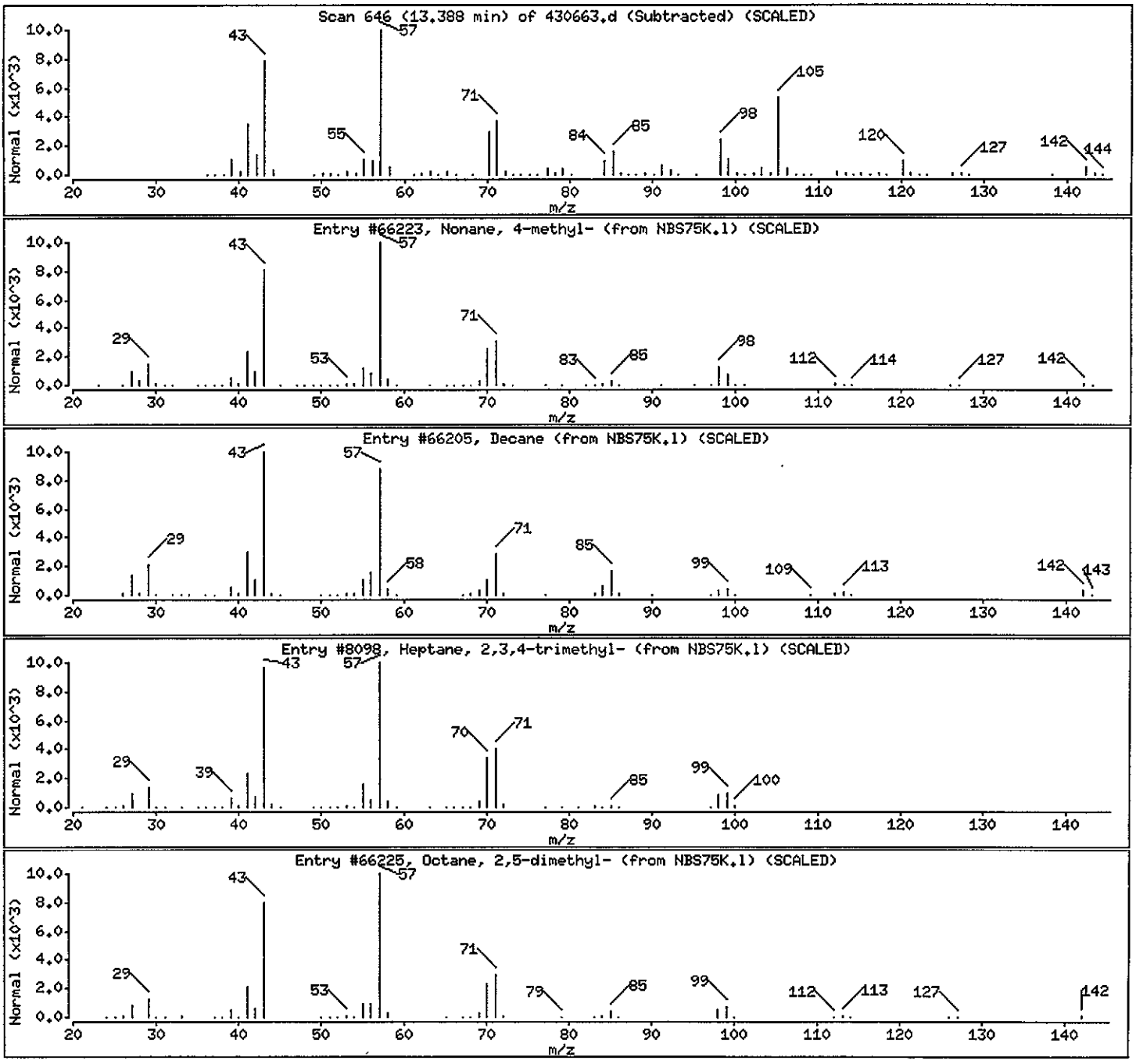
Client ID: 028ACA2IA0918 Instrument: W.i

Sample Info: 430663;028ACA2IA0918;79819;0922Y4

Purge Volume: 200.0 Operator: GMM

Column phase: DB-1 Column diameter: 0.35

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown alkane W/alkylbenzene						
Nonane, 4-methyl-	17301-94-9	NBS75K.1	66223	76	C10H22	142
Decane	124-18-5	NBS75K.1	66205	49	C10H22	142
Heptane, 2,3,4-trimethyl-	52896-95-4	NBS75K.1	8098	47	C10H22	142
Octane, 2,5-dimethyl-	15869-89-3	NBS75K.1	66225	47	C10H22	142



Data File: /chem/W.i/Wsvr.p/wcbtto14.b/430663.d

Date : 22-SEP-2000 16:28

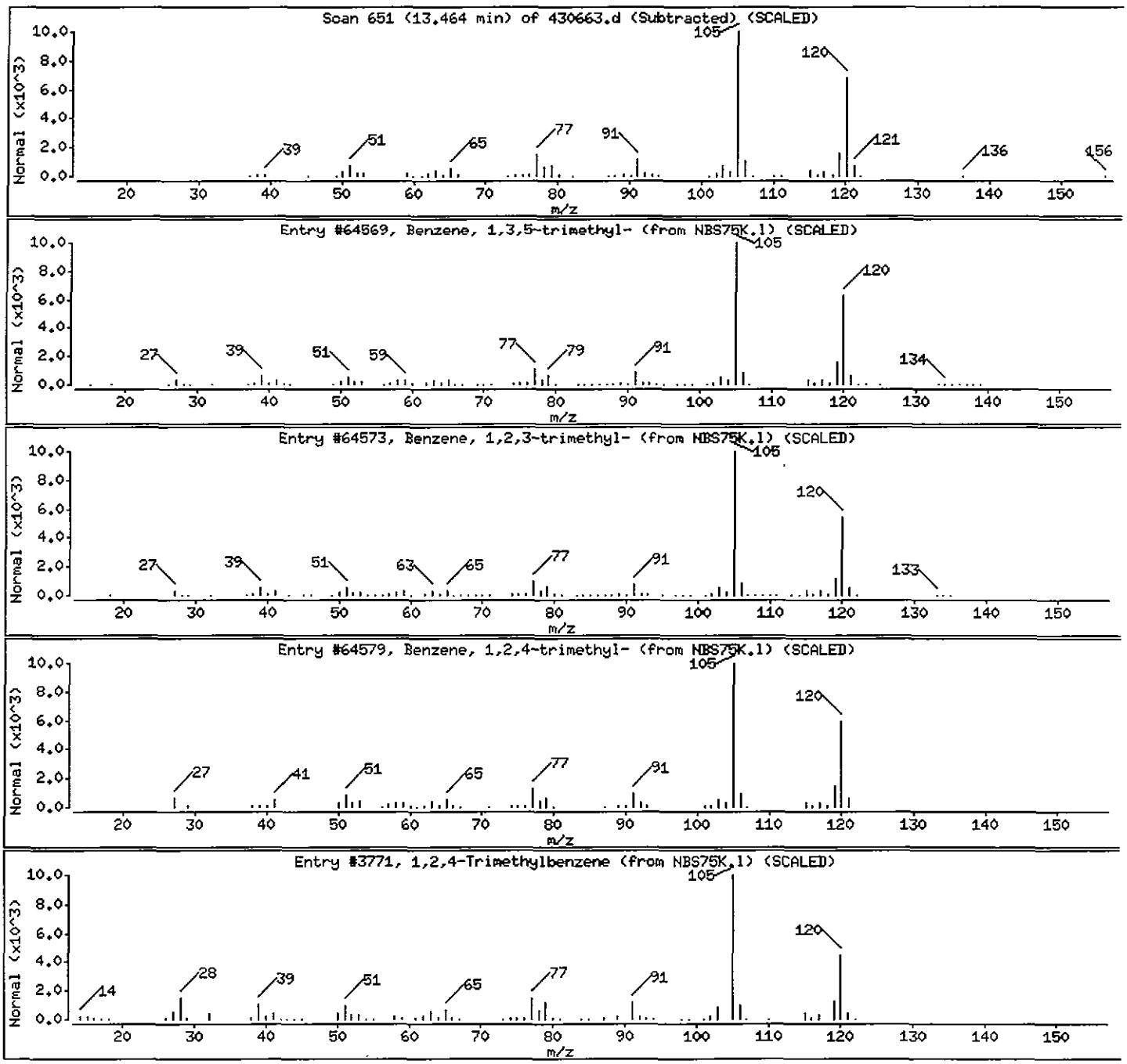
Client ID: 028ACA2IA0918 Instrument: W.i

Sample Info: 430663;028ACA2IA0918;79819;0922Y4

Purge Volume: 200.0 Operator: GMM

Column phase: DB-1 Column diameter: 0.35

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown C3-alkylbenzene						
Benzene, 1,3,5-trimethyl-	108-67-8	NBS75K.1	64569	95	C9H12	120
Benzene, 1,2,3-trimethyl-	526-73-8	NBS75K.1	64573	94	C9H12	120
Benzene, 1,2,4-trimethyl-	95-63-6	NBS75K.1	64579	94	C9H12	120
1,2,4-Trimethylbenzene	95-36-3	NBS75K.1	3771	90	C9H12	120



Data File: /chem/W.i/Wsvr.p/wcbtto14.b/430663.d

Date : 22-SEP-2000 16:28

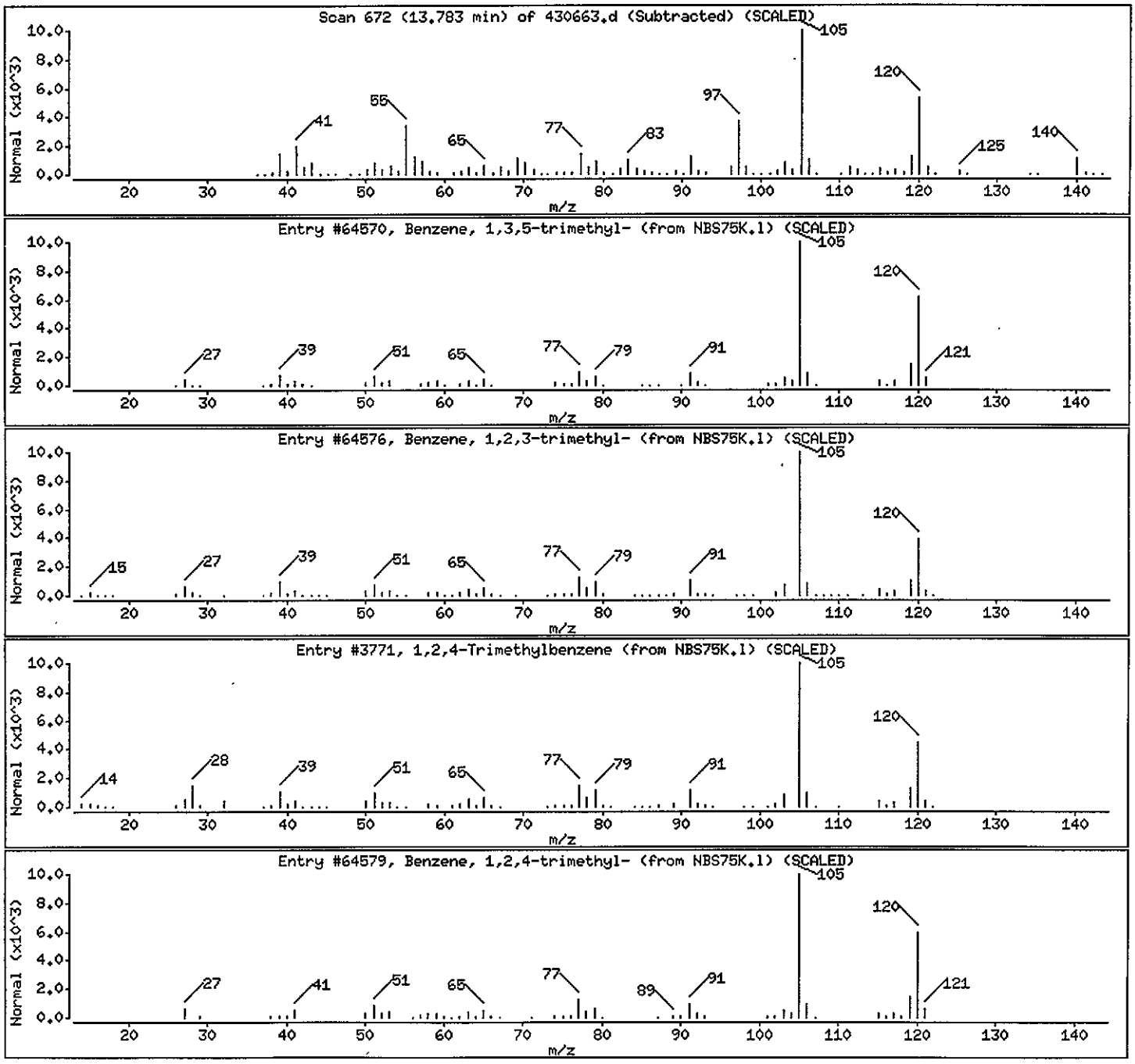
Client ID: 028ACA2IA0918 Instrument: W.i

Sample Info: 430663;028ACA2IA0918;79819;0922Y4

Purge Volume: 200.0 Operator: GMM

Column phase: DB-1 Column diameter: 0.35

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown C3-alkylbenzene						
Benzene, 1,3,5-trimethyl-	108-67-8	NBS75K.l	64570	95	C9H12	120
Benzene, 1,2,3-trimethyl-	526-73-8	NBS75K.l	64576	95	C9H12	120
1,2,4-Trimethylbenzene	95-36-3	NBS75K.l	3771	94	C9H12	120
Benzene, 1,2,4-trimethyl-	95-63-6	NBS75K.l	64579	93	C9H12	120



Data File: /chem/W.i/Wsvr.p/wcbtto14.b/430663.d

Date : 22-SEP-2000 16:28

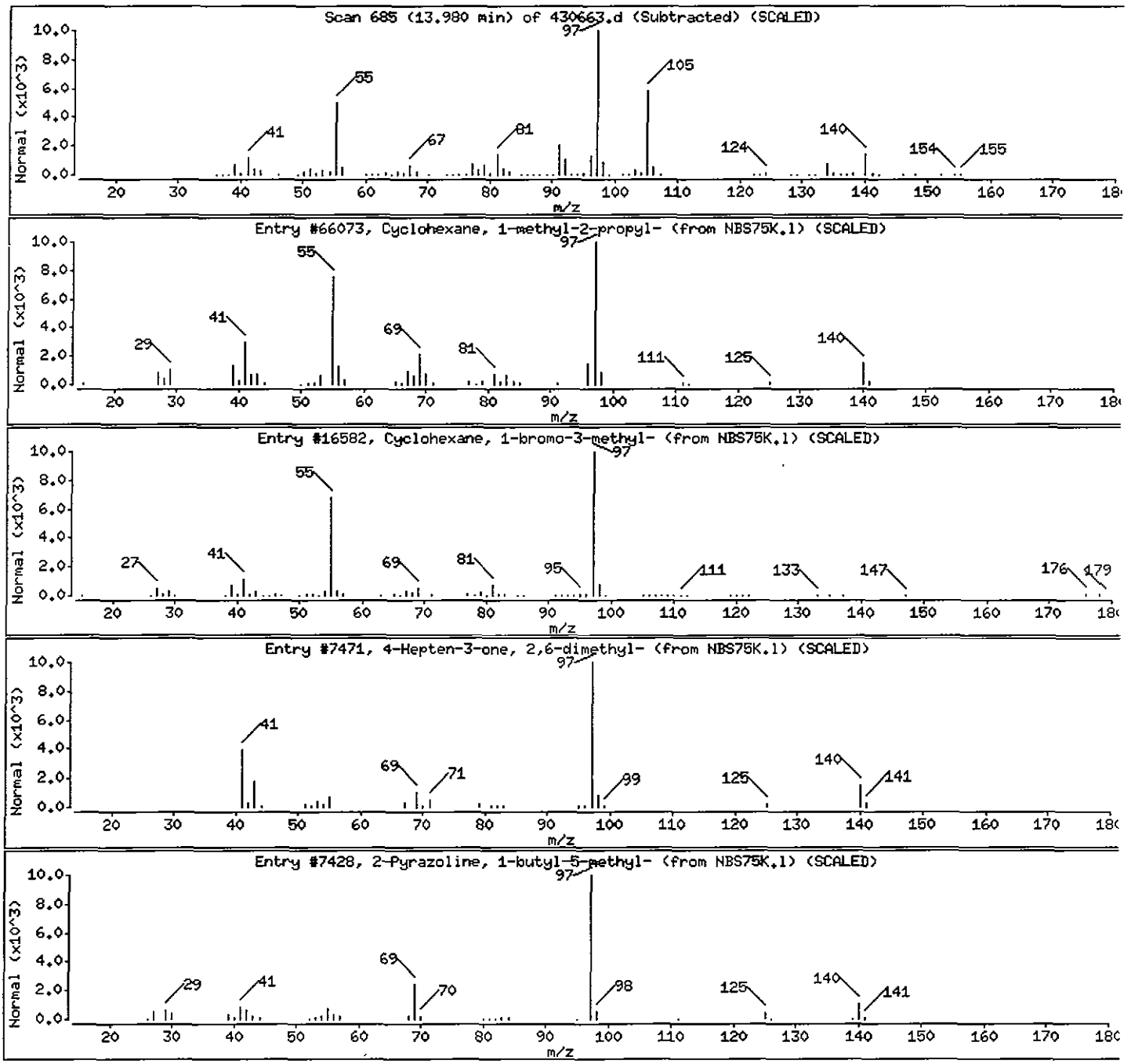
Client ID: 028ACA2IA0918 Instrument: W.i

Sample Info: 430663;028ACA2IA0918;79819;0922Y4

Purge Volume: 200.0 Operator: GMH

Column phase: DB-1 Column diameter: 0.35

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Cyclohexane, 1-methyl-2-propyl-	4291-79-6	NBS75K.l	66073	59	C10H20	140
Cyclohexane, 1-bromo-3-methyl-	13905-48-1	NBS75K.l	16582	53	C7H13Br	176
4-Hepten-3-one, 2,6-dimethyl-	56259-14-4	NBS75K.l	7471	50	C9H16O	140
2-Pyrazoline, 1-butyl-5-methyl-	22581-50-6	NBS75K.l	7428	50	C8H16N2	140



Data File: /chem/W.i/Wsvr.p/wcbtto14.b/430663.d

Date : 22-SEP-2000 16:28

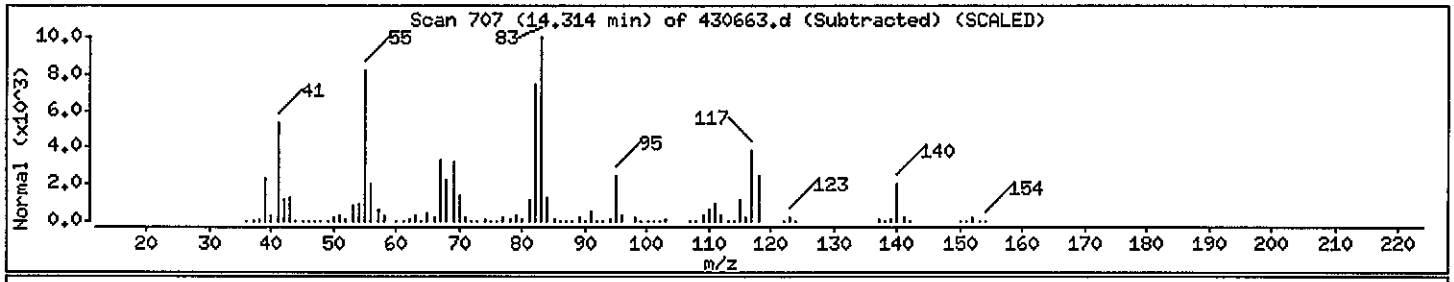
Client ID: 028ACA2IA0918 Instrument: W.i

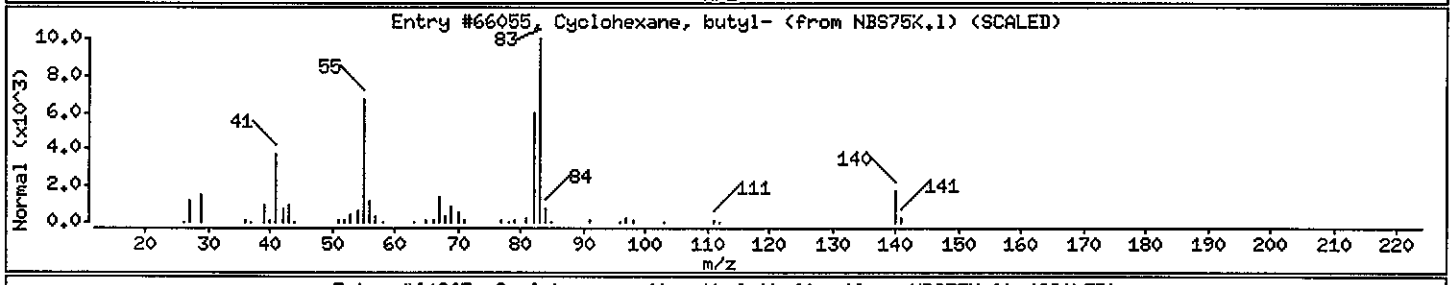
Sample Info: 430663;028ACA2IA0918;79819;0922Y4

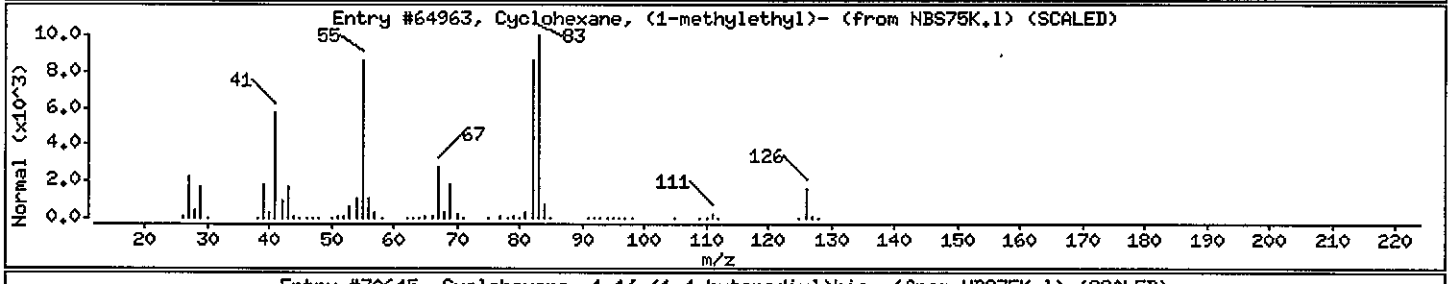
Purge Volume: 200.0 Operator: GMM

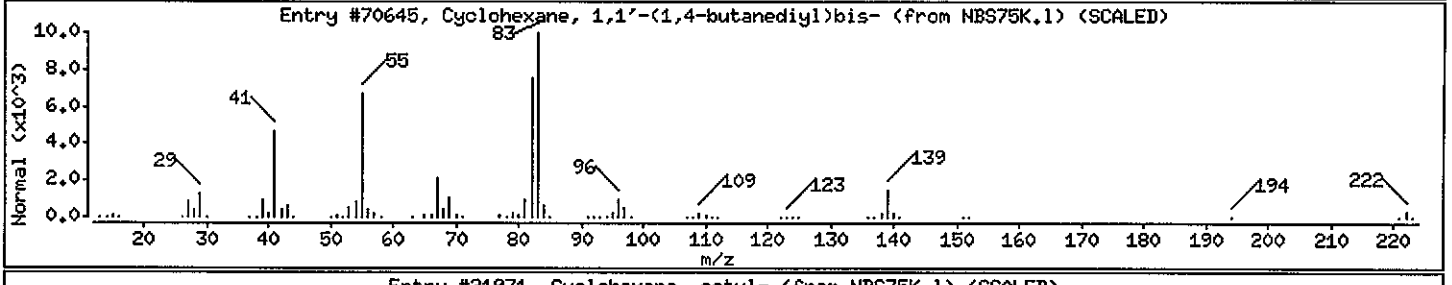
Column phase: DB-1 Column diameter: 0.35

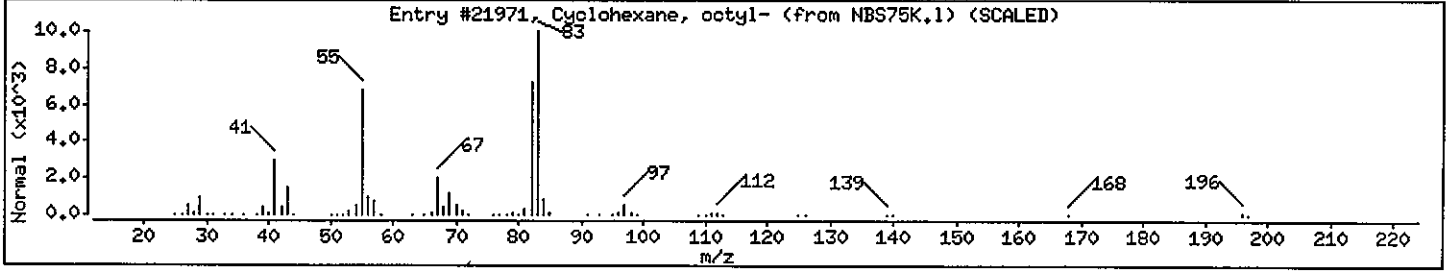
Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Cyclohexane, butyl-	1678-93-9	NBS75K.l	66055	53	C10H20	140
Cyclohexane, (1-methylethyl)-	696-29-7	NBS75K.l	64963	47	C9H18	126
Cyclohexane, 1,1'-(1,4-butanediyl)bis-	6165-44-2	NBS75K.l	70645	47	C16H30	222
Cyclohexane, octyl-	1795-15-9	NBS75K.l	21971	47	C14H28	196











Data File: /chem/W.i/Wsvr.p/wcbtto14.b/430663.d

Date : 22-SEP-2000 16:28

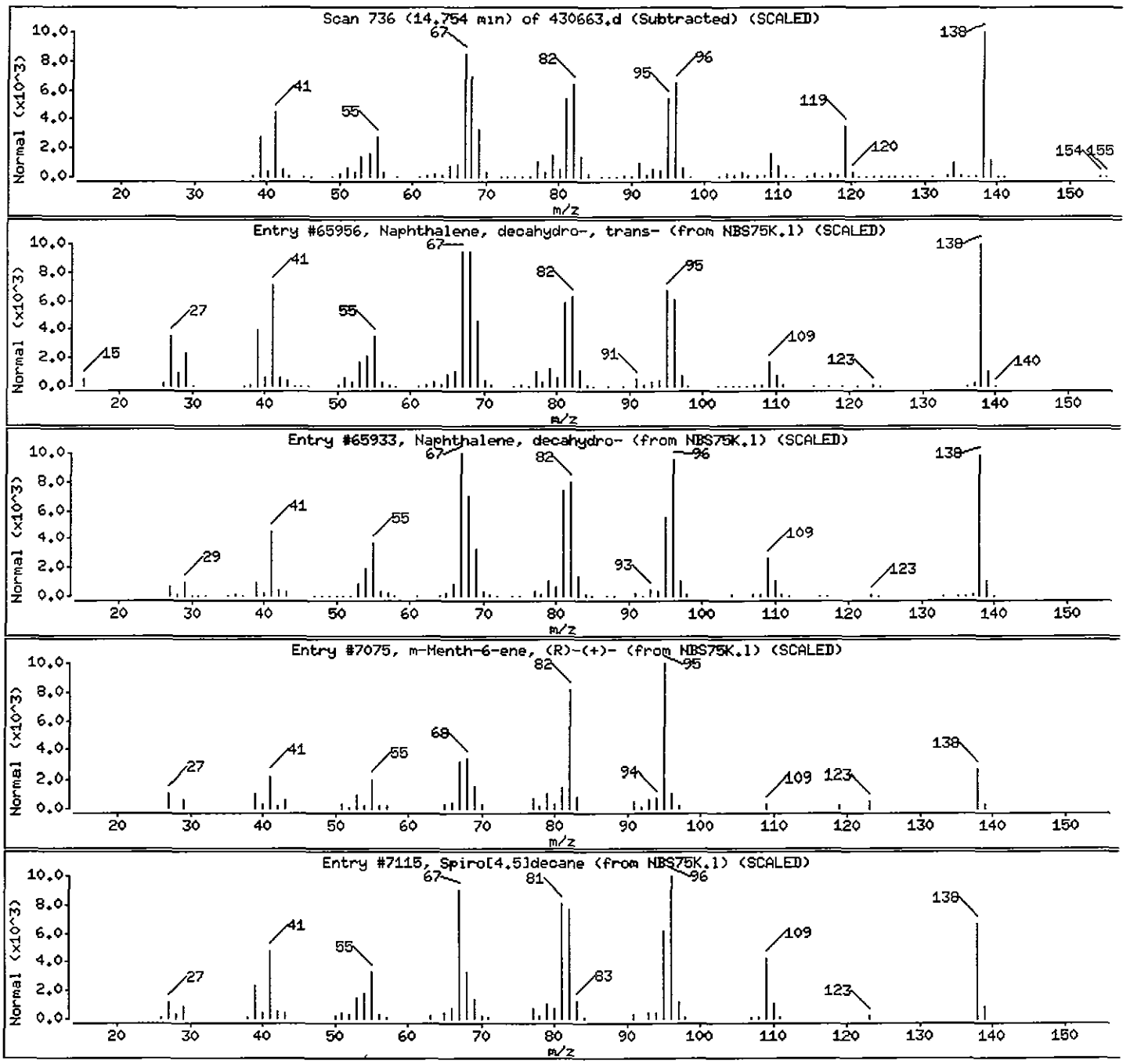
Client ID: 028ACA2IA0918 Instrument: W.i

Sample Info: 430663;028ACA2IA0918;79819;0922Y4

Purge Volume: 200.0 Operator: GMH

Column phase: DB-1 Column diameter: 0.35

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown decahydronaphthalene						
Naphthalene, decahydro-, trans-	493-02-7	NBS75K.l	65956	97	C10H18	138
Naphthalene, decahydro-	91-17-8	NBS75K.l	65933	94	C10H18	138
m-Menth-6-ene, (R)-(+)-	13837-70-2	NBS75K.l	7075	93	C10H18	138
Spiro[4.5]decane	176-63-6	NBS75K.l	7115	90	C10H18	138



FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

ACCANA SAMPLE NO.

028ACAEA0918

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 79819

Matrix: (soil/water) AIR Lab Sample ID: 430664

Sample wt/vol: 200 (g/mL) ML Lab File ID: 430664

Level: (low/med) LOW Date Received: 09/20/00

% Moisture: not dec. _____ Date Analyzed: 09/22/00

GC Column: DB-1 ID: 0.35 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) PPBV	Q
74-87-3	Chloromethane	0.50	
75-01-4	Vinyl Chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-09-2	Methylene Chloride	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
56-23-5	Carbon Tetrachloride	0.50	U
71-43-2	Benzene	2.7	
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-88-3	Toluene	12	
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	11	
1330-20-7	Xylene (total)	1.0	
100-42-5	Styrene	0.50	U
1330-20-7	Xylene (m,p)	1.0	
95-47-6	Xylene (o)	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

ACCANA SAMPLE NO.

028ACAEA0918

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 79819

Matrix: (soil/water) AIR Lab Sample ID: 430664

Sample wt/vol: 200 (g/mL) ML Lab File ID: 430664

Level: (low/med) LOW Date Received: 09/20/00

% Moisture: not dec. _____ Date Analyzed: 09/22/00

GC Column: DB-1 ID: 0.35 (mm) Dilution Factor: 1.0

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

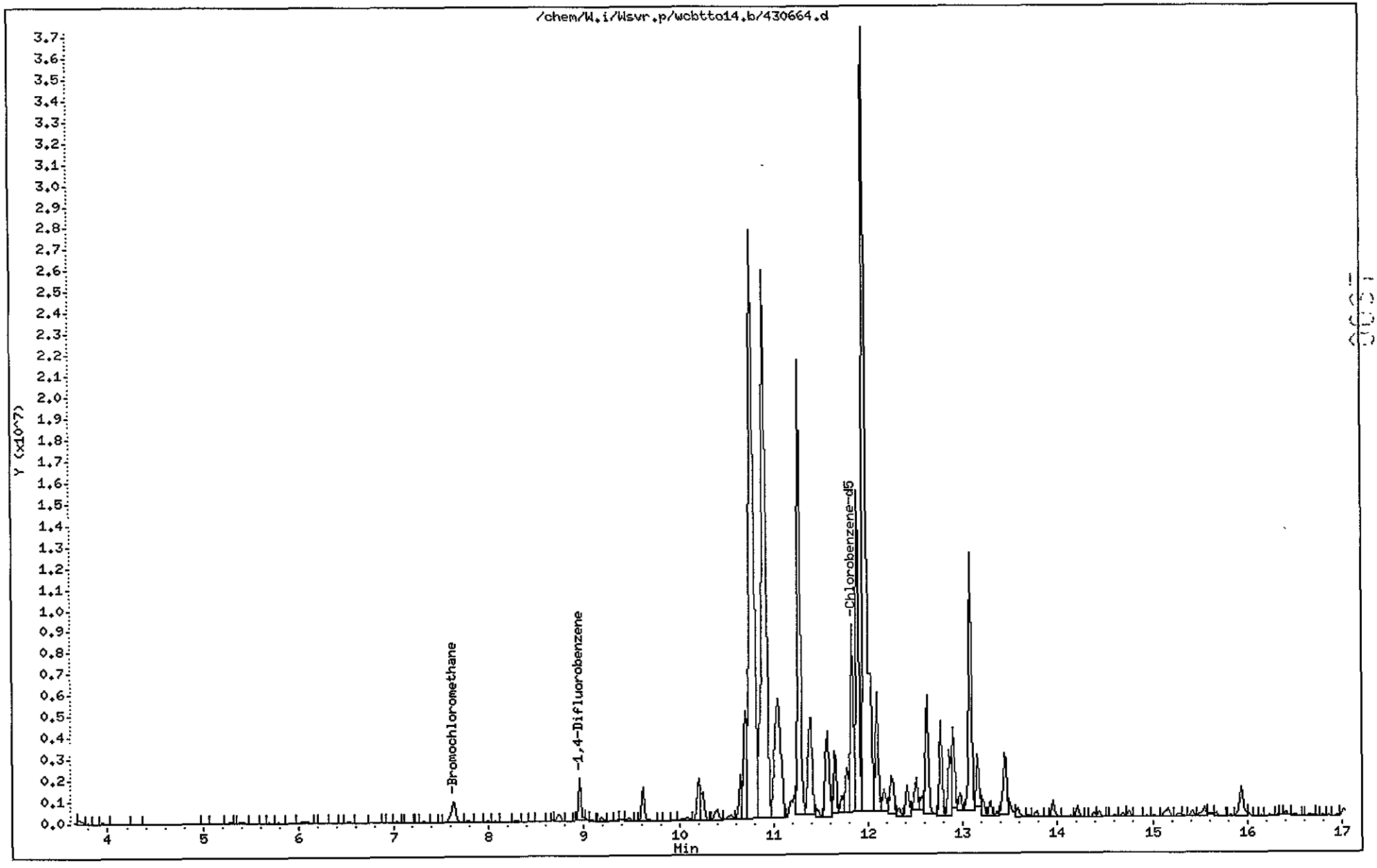
Number TICs found: 10

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

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		UNKNOWN ALKANE	10.20	12	J
2.		UNKNOWN ALKANE	10.70	7.3	J
3.		UNKNOWN ALKANE	10.78	49	J
4.		UNKNOWN ALKANE	10.90	43	J
5.		UNKNOWN ALKYLCYCLOHEXANE	11.05	13	J
6.		UNKNOWN ALKANE	11.28	22	J
7.		UNKNOWN	11.38	7.5	J
8.		UNKNOWN ALKYLCYCLOHEXANE	11.89	17	J
9.		UNKNOWN ALKYLCYCLOHEXANE	11.98	52	J
10.		UNKNOWN	13.08	13	J
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					

Data File: /chem/W.i/Wsvr.p/wcbtto14.b/430664.d
Date : 22-SEP-2000 17:02
Client ID: 028ACAEA0918
Sample Info: 430664;028ACAEA0918;79819;0922Y4
Purge Volume: 200.0
Column phase: DB-1

Instrument: W.i
Operator: GMM
Column diameter: 0.35



STL Burlington

AIR TOXICS QUANTITATION REPORT

Data file : /chem/W.i/Wsvr.p/wcbtto14.b/430664.d
Lab Smp Id: 430664 Client Smp ID: 028ACAEA0918
Inj Date : 22-SEP-2000 17:02
Operator : GMM Inst ID: W.i
Smp Info : 430664;028ACAEA0918;79819;0922Y4
Misc Info :
Comment :
Method : /chem/W.i/Wsvr.p/wcbtto14.b/ato14.m
Meth Date : 29-Sep-2000 10:30 cmp Quant Type: ISTD
Cal Date : 10-JUL-2000 13:37 Cal File: cb0005i2.d
Als bottle: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ACCANA.sub
Target Version: 3.50
Processing Host: chemsvr4

Concentration Formula: Amt * DF * X* Uf/Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
X	200.00000	method volume factor
Uf	1.00000	ng unit correction factor
Vo	200.00000	Sample Volume purged (mL)

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	FINAL (ppbv)	
2	Chloromethane	50	3.940	4.056	(0.517)	14373	0.50313	0.50	
4	Vinyl Chloride	62	Compound Not Detected.						
5	Bromomethane	94	Compound Not Detected.						
6	Chloroethane	64	Compound Not Detected.						
7	Trichlorofluoromethane	101	Compound Not Detected.						
9	Methylene Chloride	49	Compound Not Detected.						
11	1,1-Dichloroethane	63	Compound Not Detected.						
* 13	Bromochloromethane	128	7.621	7.698	(1.000)	394112	10.0000		(Q)
14	Chloroform	83	Compound Not Detected.						
15	1,2-Dichloroethane	62	Compound Not Detected.						
16	1,1,1-Trichloroethane	97	Compound Not Detected.						
17	Benzene	78	8.744	8.791	(0.976)	324407	2.72819	2.7	
18	Carbon Tetrachloride	117	Compound Not Detected.						
* 19	1,4-Difluorobenzene	114	8.957	9.003	(1.000)	1737063	10.0000		
20	1,2-Dichloropropane	63	Compound Not Detected.						

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)
	21 Trichloroethene	95	Compound Not Detected.					
	22 cis-1,3-Dichloropropene	75	Compound Not Detected.					
	23 trans-1,3-Dichloropropene	75	Compound Not Detected.					
	24 1,1,2-Trichloroethane	83	Compound Not Detected.					
	25 Toluene	92	10.641	10.688	(0.900)	1011082	11.6683	12
	27 Tetrachloroethene	166	Compound Not Detected.					
*	28 Chlorobenzene-d5	117	11.825	11.841	(1.000)	1729226	10.0000	
	29 Chlorobenzene	112	Compound Not Detected.					
	30 Ethylbenzene	91	12.098	12.099	(1.023)	2133427	11.0174	11
	31 Xylene (m,p)	106	12.219	12.220	(1.033)	72626	1.02399	1.0(Q)
	32 Styrene	104	Compound Not Detected.					
M	33 Xylene (total)	106				72626	1.02399	1.0
	34 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					
	35 Xylene (o)	106	Compound Not Detected.					
	38 1,3-Dichlorobenzene	146	Compound Not Detected.					
	39 1,4-Dichlorobenzene	146	Compound Not Detected.					
	40 1,2-Dichlorobenzene	146	Compound Not Detected.					

QC Flag Legend

Q - Qualifier signal failed the ratio test.

STL Burlington

AIR TOXICS QUANTITATION REPORT

Data file : /chem/W.i/Wsvr.p/wcbtto14.b/430664.d
Lab Smp Id: 430664 Client Smp ID: 028ACAEA0918
Inj Date : 22-SEP-2000 17:02
Operator : GMM Inst ID: W.i
Smp Info : 430664;028ACAEA0918;79819;0922Y4
Misc Info :
Comment :
Method : /chem/W.i/Wsvr.p/wcbtto14.b/ato14.m
Meth Date : 29-Sep-2000 10:30 cmp Quant Type: ISTD
Cal Date : 10-JUL-2000 13:37 Cal File: cb0005i2.d
Als bottle: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ACCANA.sub
Target Version: 3.50
Processing Host: chemsvr4

Concentration Formula: Amt * DF * X* Uf/Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
X	200.00000	method volume factor
Uf	1.00000	ng unit correction factor
Vo	200.00000	Sample Volume purged (mL)

Cpnd Variable Local Compound Variable

ISTD	RT	AREA	AMOUNT
* 19 1,4-Difluorobenzene	8.957	3838402	10.000
* 28 Chlorobenzene-d5	11.825	20041474	10.000

	CONCENTRATIONS			QUANT			
RT	AREA	ON-COL(ppbv)	FINAL(ppbv)	QUAL	LIBRARY	LIB ENTRY	CPND #
Unknown alkane				CAS #:			
10.201	4732030	12.3281241	12	0		0	19
Unknown alkane				CAS #:			
10.702	14728587	7.34905343	7.3	0		0	28

		CONCENTRATIONS			QUANT		
RT	AREA	ON-COL(ppbv)	FINAL(ppbv)	QUAL	LIBRARY	LIB ENTRY	CPND #
Unknown alkane				CAS #:			
10.778	98940188	49.3677190	49	0		0	28
Unknown alkane				CAS #:			
10.899	86165246	42.9934661	43	0		0	28
Unknown alkylcyclohexane				CAS #:			
11.051	26082270	13.0141472	13	0		0	28
Unknown alkane				CAS #:			
11.278	43567466	21.7386531	22	0		0	28
Unknown				CAS #:			
11.385	15130920	7.54980391	7.5	0		0	28
Unknown alkylcyclohexane				CAS #:			
11.886	34654465	17.2913748	17	0		0	28
Unknown alkylcyclohexane				CAS #:			
11.977	1.052e+08	52.4678590	52	0		0	28
Unknown				CAS #:			
13.084	26810301	13.3774093	13	0		0	28

Data File: /chem/W.i/Wsvr.p/wcbtto14.b/430664.d

Date : 22-SEP-2000 17:02

Client ID: 028ACAEA0918

Instrument: W.i

Sample Info: 430664;028ACAEA0918;79819;0922Y4

Purge Volume: 200.0

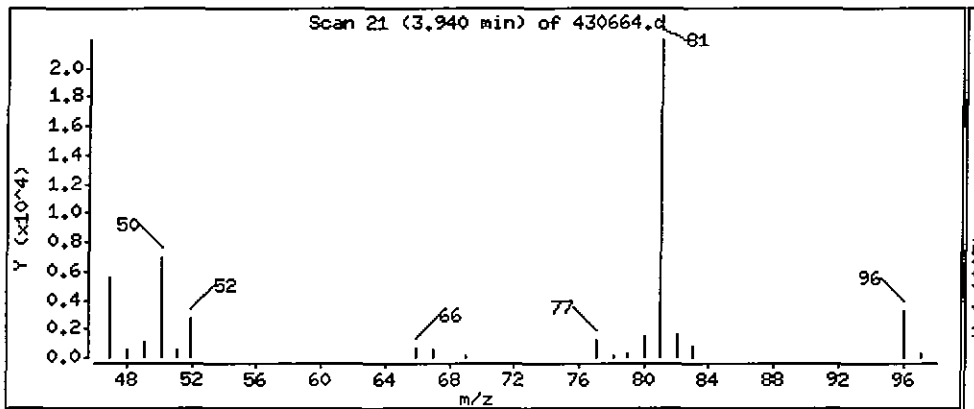
Operator: GHH

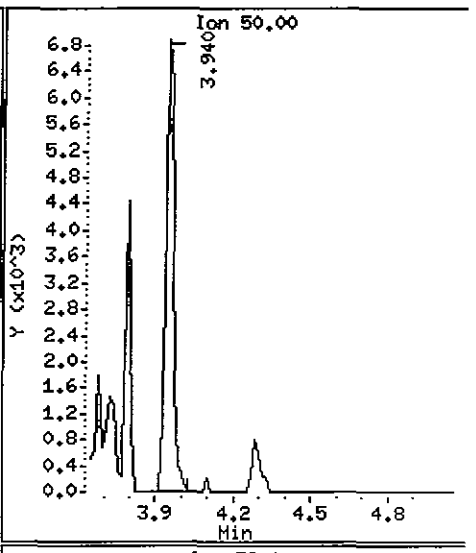
Column phase: DB-1

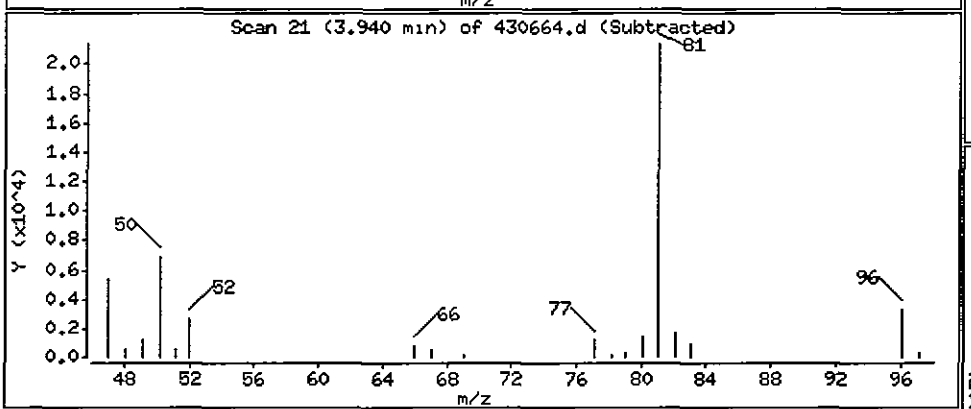
Column diameter: 0.35

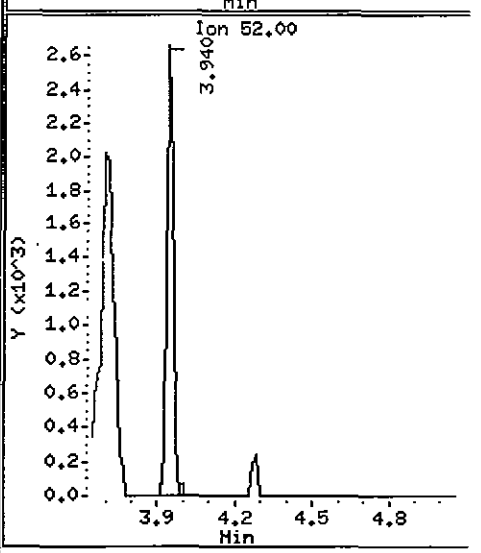
2 Chloromethane

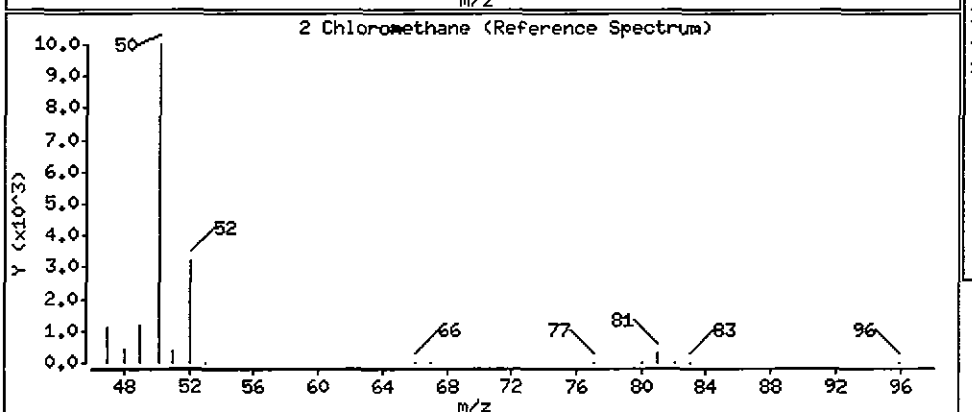
Concentration: 0.50 ppbv

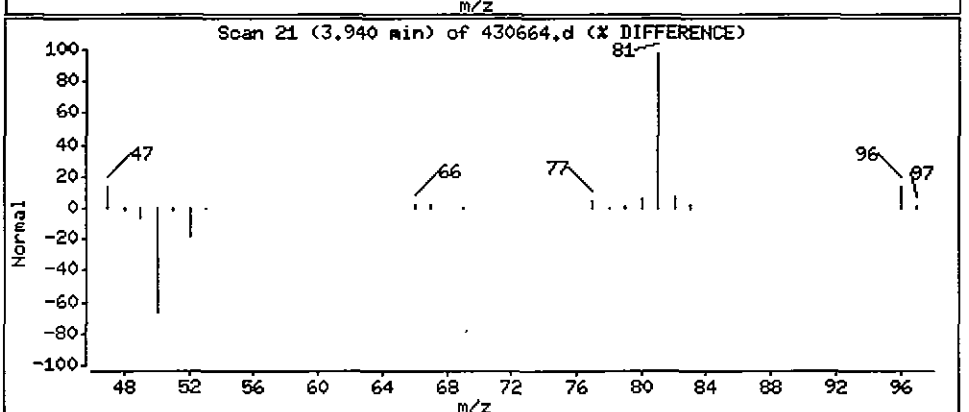












Data File: /chem/W.i/Wsvr.p/wcbtto14.b/430664.d

Date : 22-SEP-2000 17:02

Client ID: 028ACAEA0918

Instrument: W.i

Sample Info: 430664;028ACAEA0918;79819;0922Y4

Purge Volume: 200.0

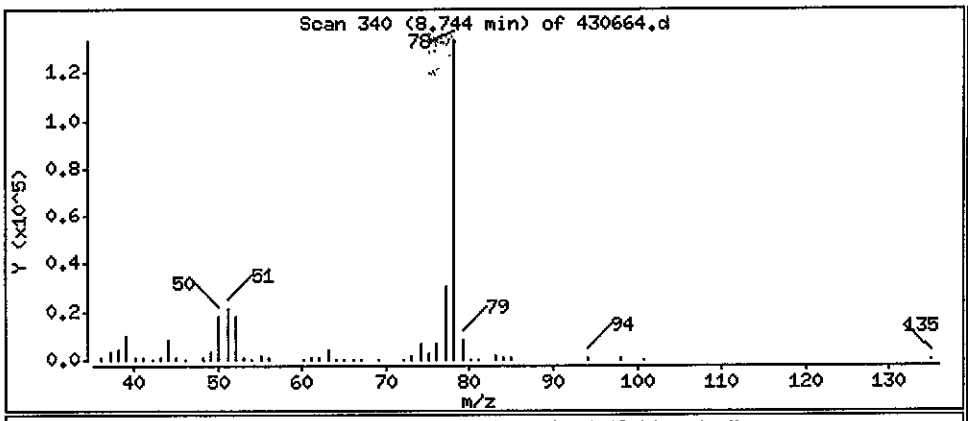
Operator: GMM

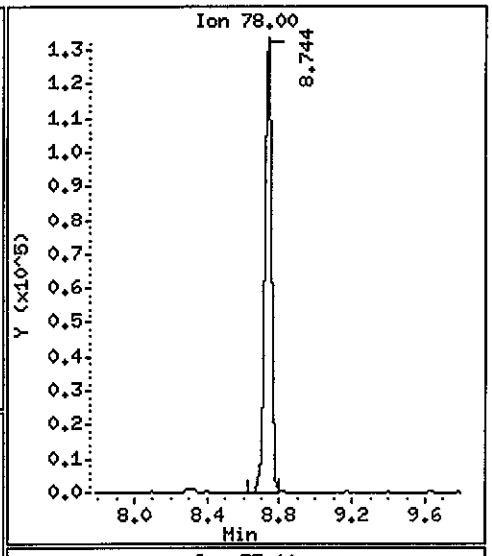
Column phase: DB-1

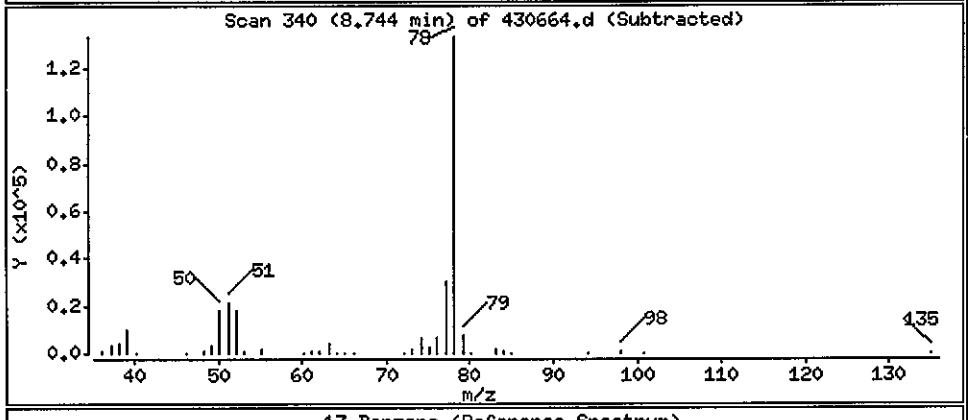
Column diameter: 0.35

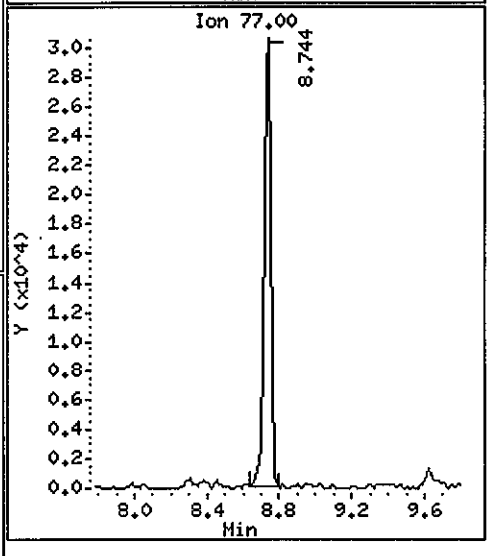
17 Benzene

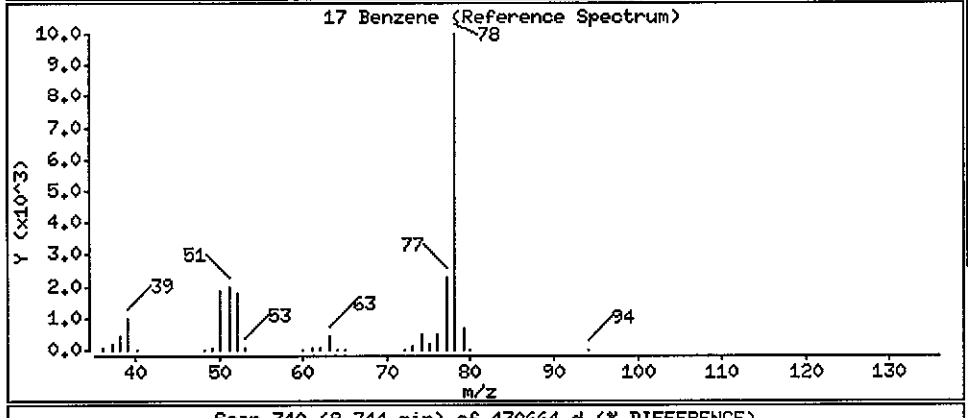
Concentration: 2.7 ppbv

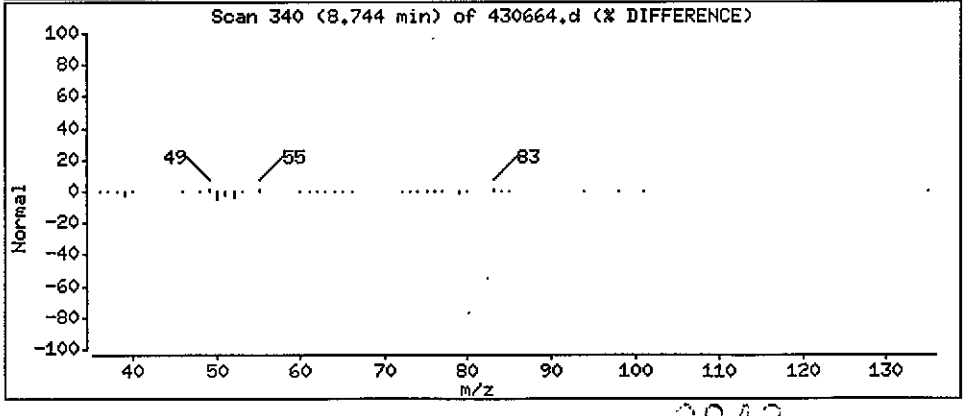












Data File: /chem/W.i/Wsvr.p/wobtto14.b/430664.d

Date : 22-SEP-2000 17:02

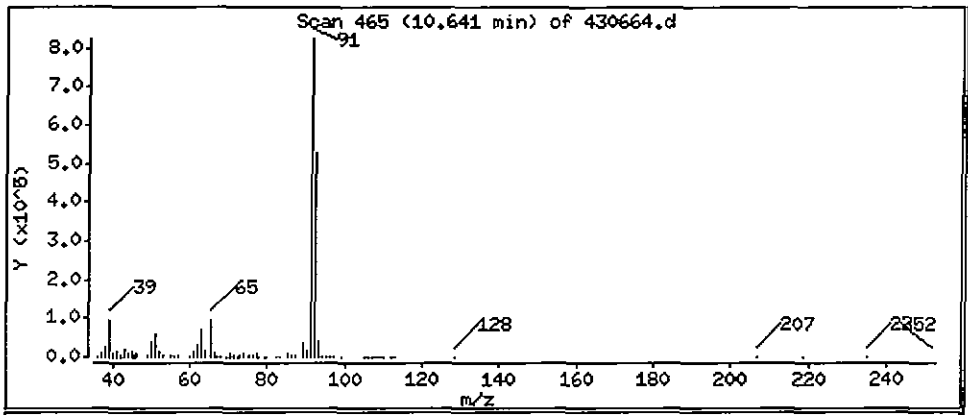
Client ID: 028ACAEA0918 Instrument: W.1

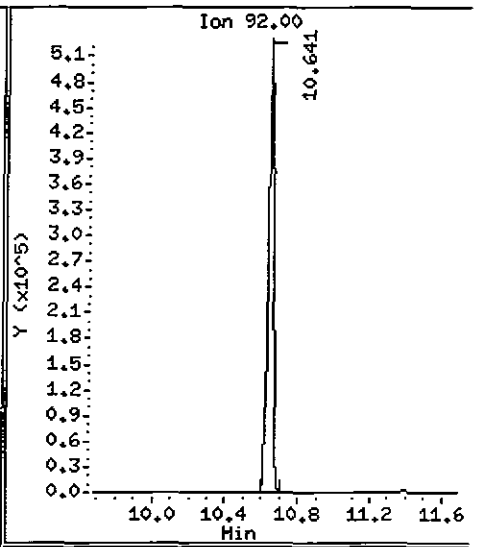
Sample Info: 430664;028ACAEA0918;79819;0922Y4

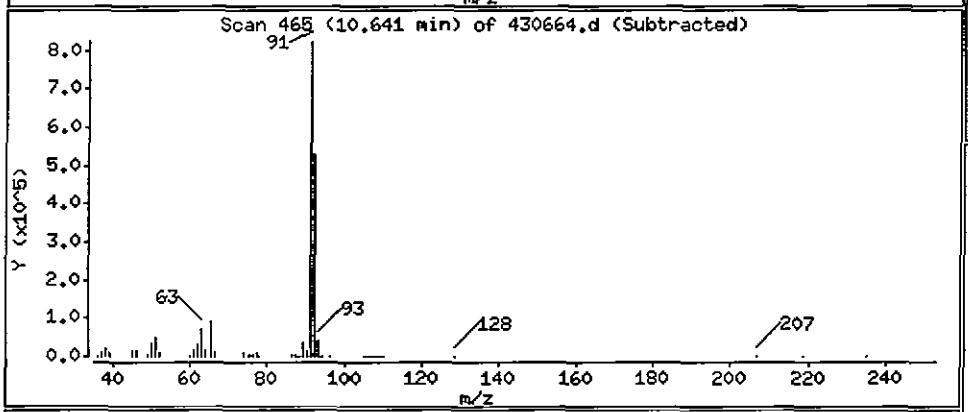
Purge Volume: 200.0 Operator: GMH

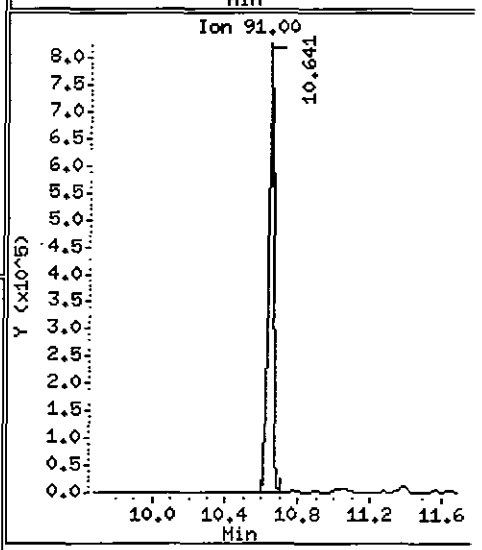
Column phase: DB-1 Column diameter: 0.35

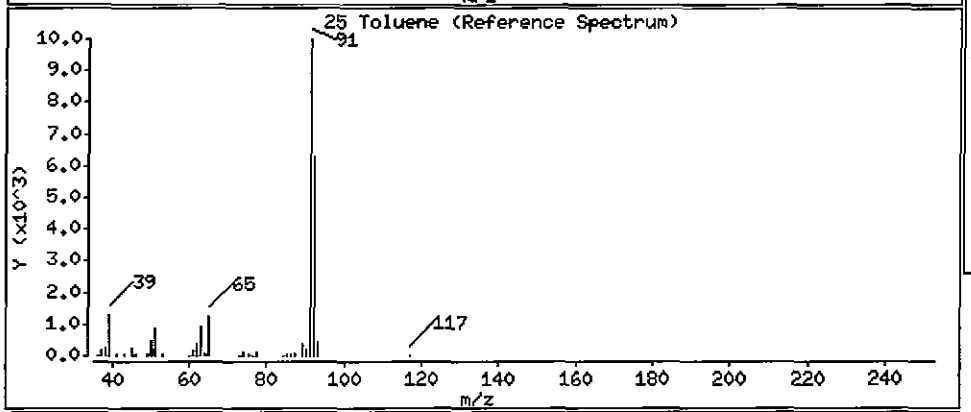
25 Toluene Concentration: 12 ppbv

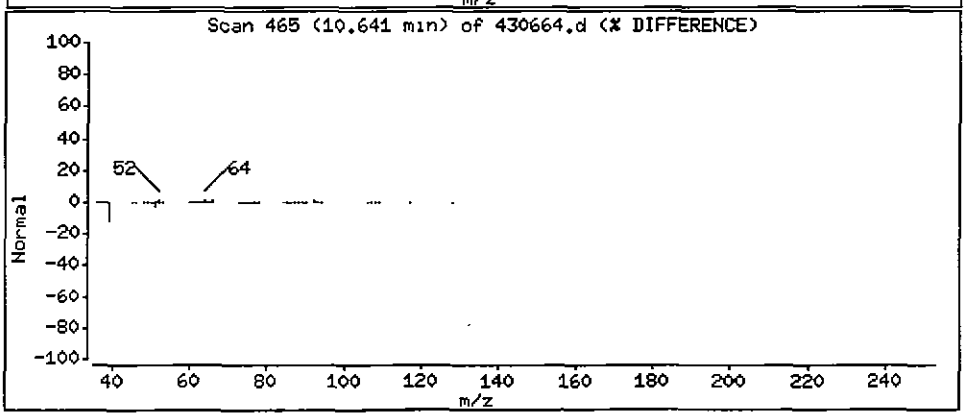












Data File: /chem/W.i/Wsvr.p/wcbtto14.b/430664.d

Date : 22-SEP-2000 17:02

Client ID: 028ACAEA0918

Instrument: W.i

Sample Info: 430664;028ACAEA0918;79819;0922Y4

Purge Volume: 200.0

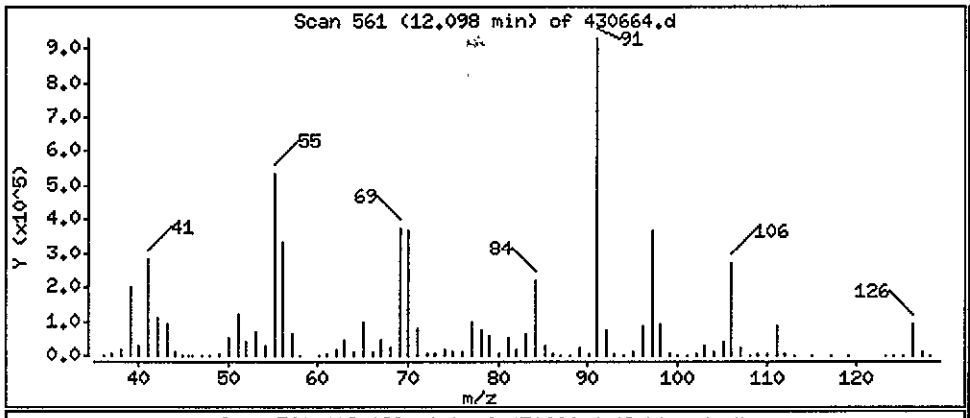
Operator: GMM

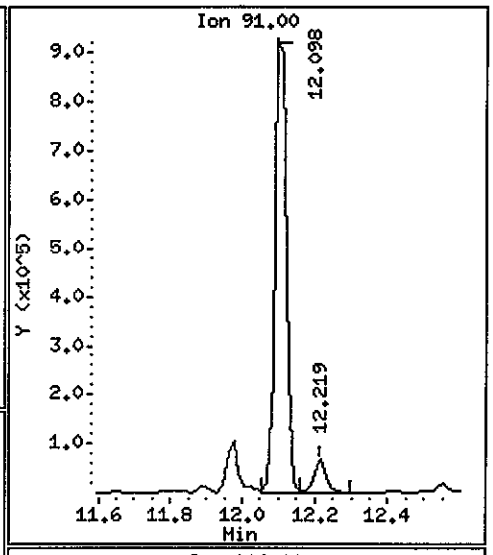
Column phase: DB-1

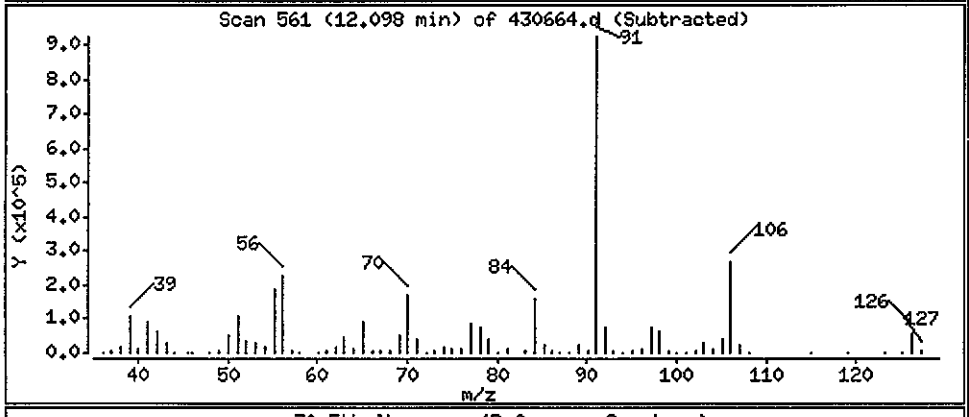
Column diameter: 0.35

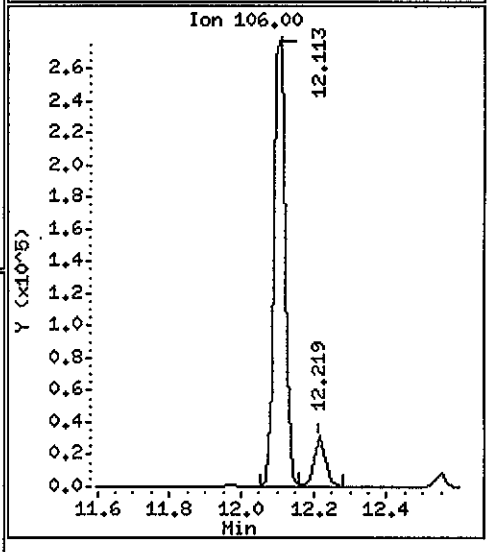
30 Ethylbenzene

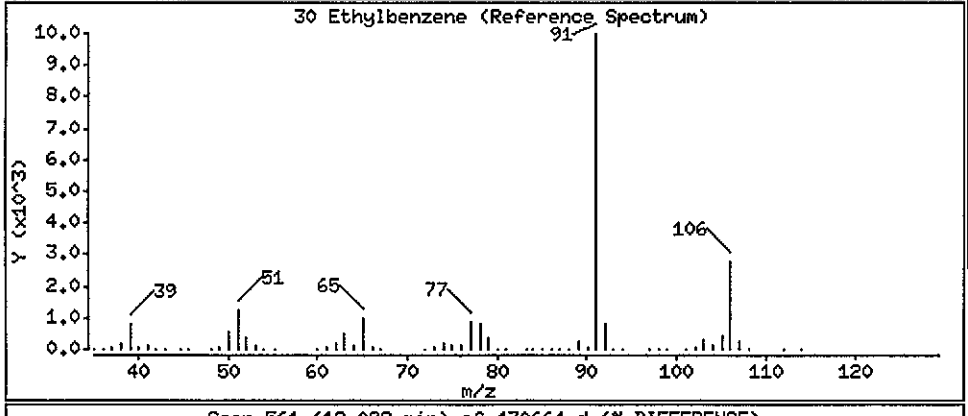
Concentration: 11 ppbv

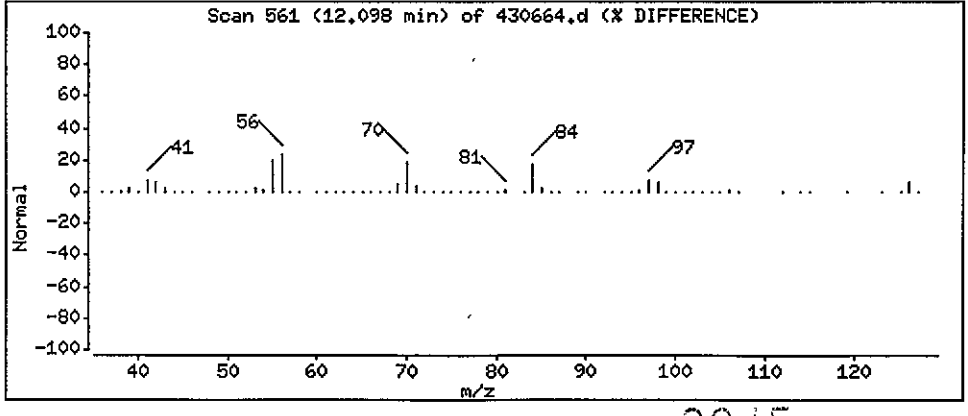












Data File: /chem/W.i/Wsvr.p/wcbtto14.b/430664.d

Date : 22-SEP-2000 17:02

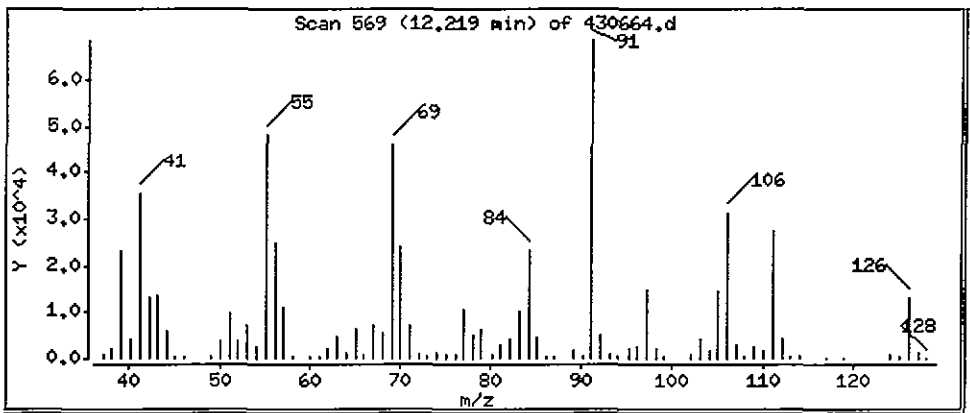
Client ID: 028ACAEA0918 Instrument: W.i

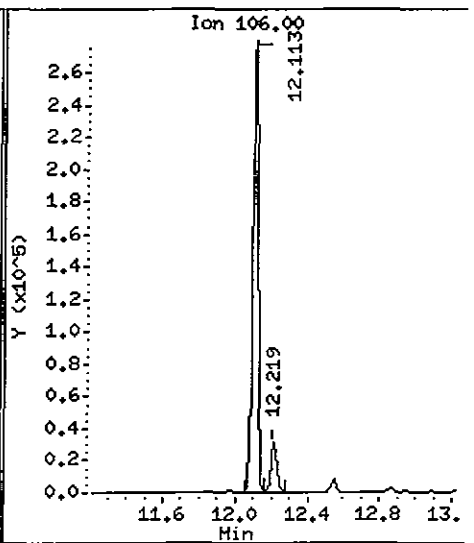
Sample Info: 430664;028ACAEA0918;79819;0922Y4

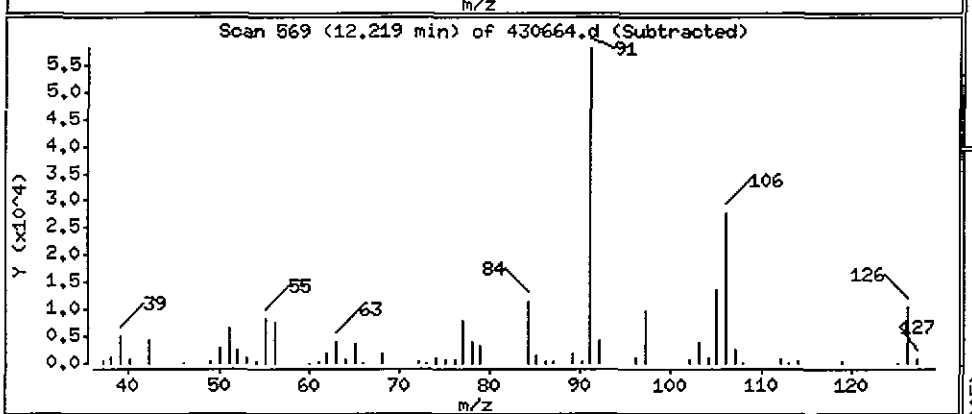
Purge Volume: 200.0 Operator: GMM

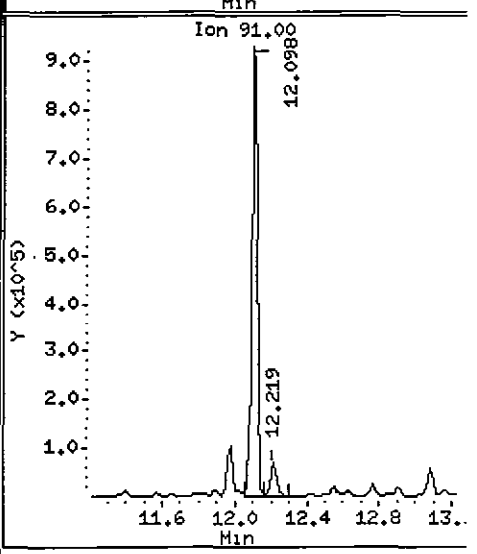
Column phase: DB-1 Column diameter: 0.35

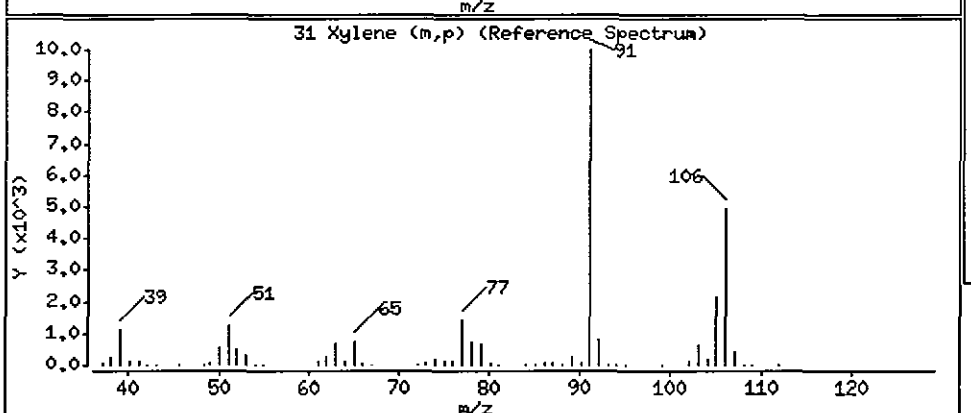
31 Xylene (m,p) Concentration: 1.0 ppbv

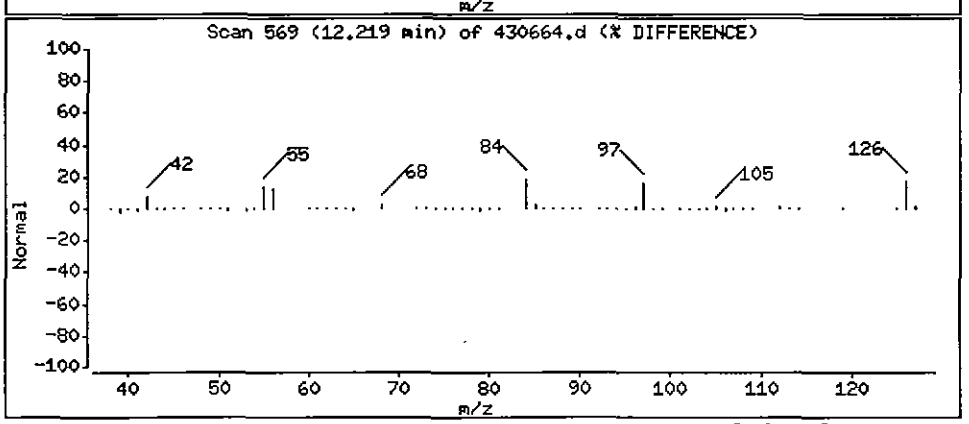












Data File: /chem/W.i/Wsvr.p/wcbtto14.b/430664.d

Date : 22-SEP-2000 17:02

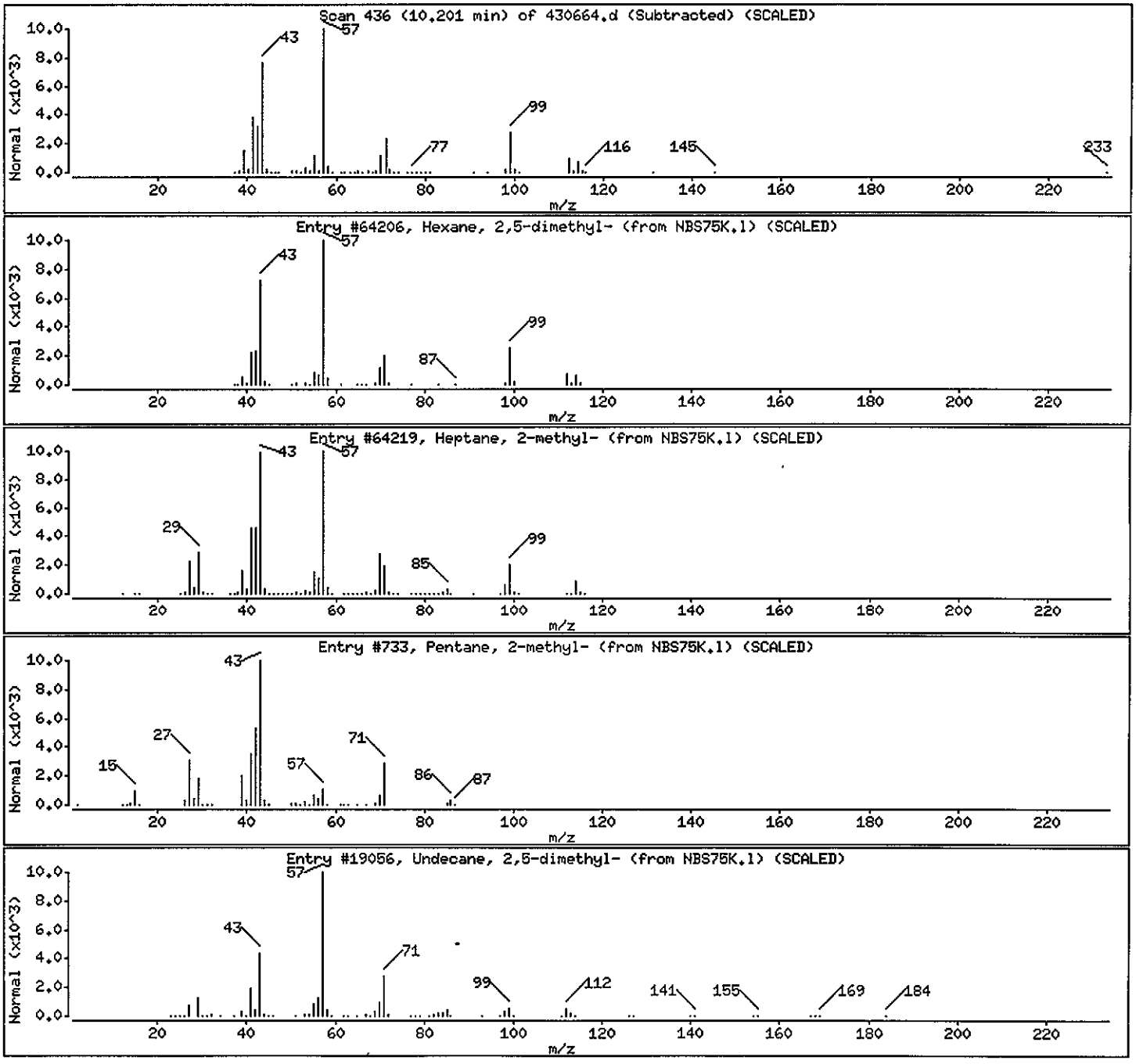
Client ID: 028ACAEA0918 Instrument: W.i

Sample Info: 430664;028ACAEA0918;79819;0922Y4

Purge Volume: 200.0 Operator: GMM

Column phase: DB-1 Column diameter: 0.35

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown alkane						
Hexane, 2,5-dimethyl-	592-13-2	NBS75K.l	64206	90	C8H18	114
Heptane, 2-methyl-	592-27-8	NBS75K.l	64219	64	C8H18	114
Pentane, 2-methyl-	107-83-5	NBS75K.l	733	38	C6H14	86
Undecane, 2,5-dimethyl-	17301-22-3	NBS75K.l	19056	38	C13H28	184



Data File: /chem/W.i/Wsvr.p/wcbtto14.b/430664.d

Date : 22-SEP-2000 17:02

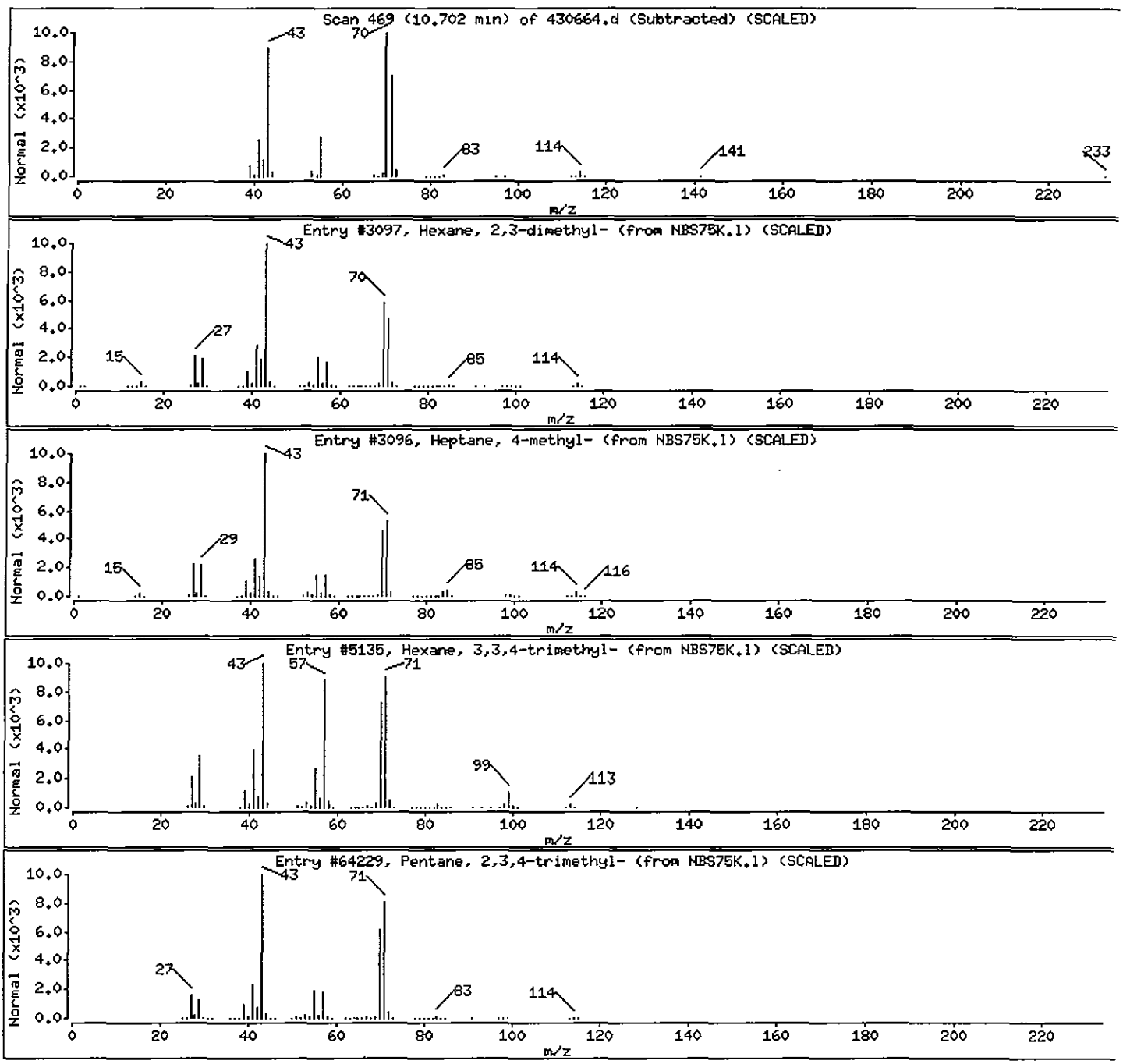
Client ID: 028ACAEA0918 Instrument: W.i

Sample Info: 430664;028ACAEA0918;79819;0922Y4

Purge Volume: 200.0 Operator: GHH

Column phase: DB-1 Column diameter: 0.35

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown alkane						
Hexane, 2,3-dimethyl-	584-94-1	NBS75K.l	3097	86	C8H18	114
Heptane, 4-methyl-	589-53-7	NBS75K.l	3096	53	C8H18	114
Hexane, 3,3,4-trimethyl-	16747-31-2	NBS75K.l	5135	42	C9H20	128
Pentane, 2,3,4-trimethyl-	565-75-3	NBS75K.l	64229	42	C8H18	114



Data File: /chem/W.i/Wsvr.p/wcbtto14.b/430664.d

Date : 22-SEP-2000 17:02

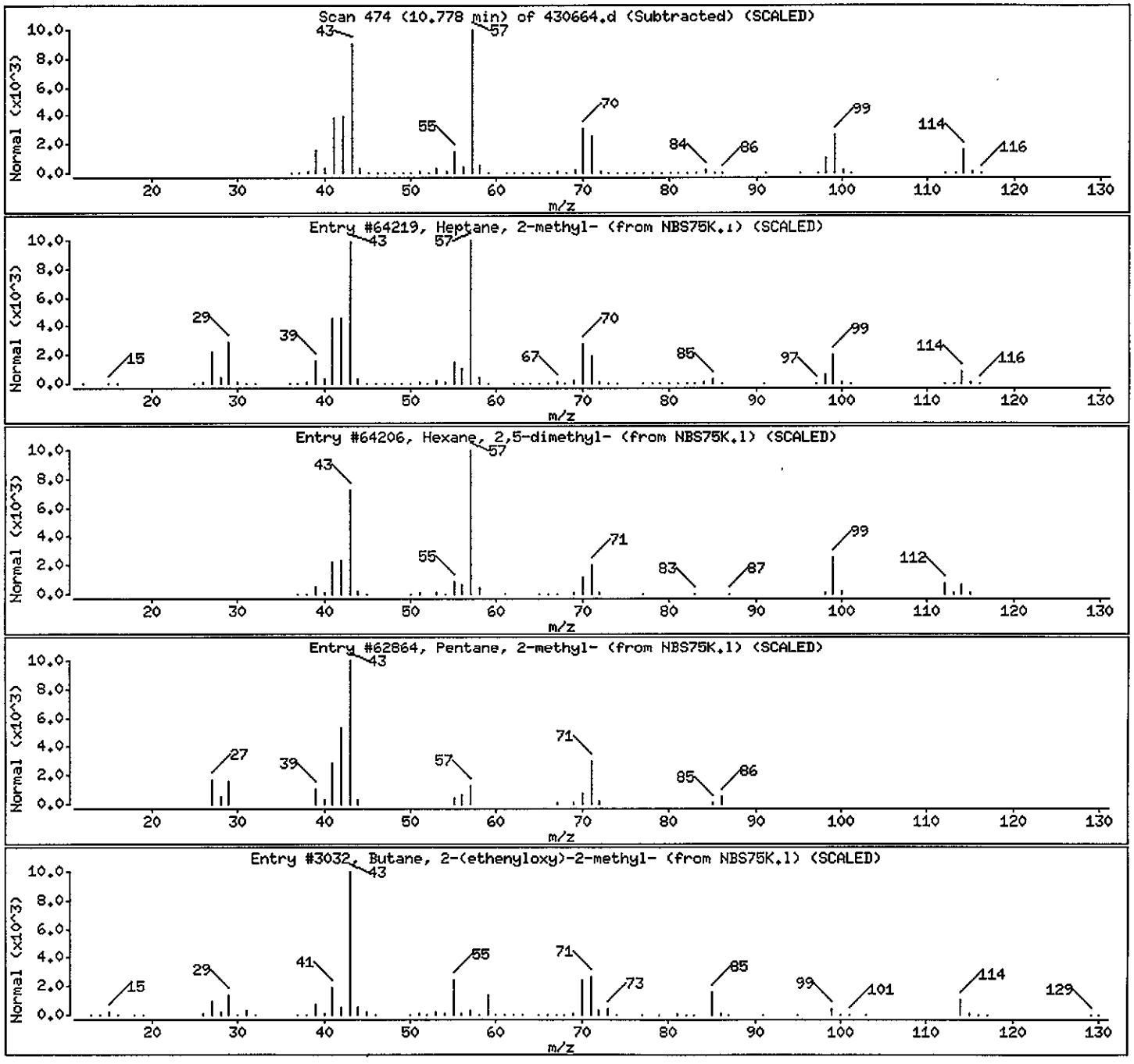
Client ID: 028ACAEA0918 Instrument: W.i

Sample Info: 430664;028ACAEA0918;79819;0922Y4

Purge Volume: 200.0 Operator: GHM

Column phase: DB-1 Column diameter: 0.35

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown alkane						
Heptane, 2-methyl-	592-27-8	NBS75K.1	64219	91	C8H18	114
Hexane, 2,5-dimethyl-	592-13-2	NBS75K.1	64206	87	C8H18	114
Pentane, 2-methyl-	107-83-5	NBS75K.1	62864	43	C6H14	86
Butane, 2-(ethenyloxy)-2-methyl-	29281-39-8	NBS75K.1	3032	38	C7H14O	114



Data File: /chem/W.i/Wsvr.p/wobtto14.b/430664.d

Date : 22-SEP-2000 17:02

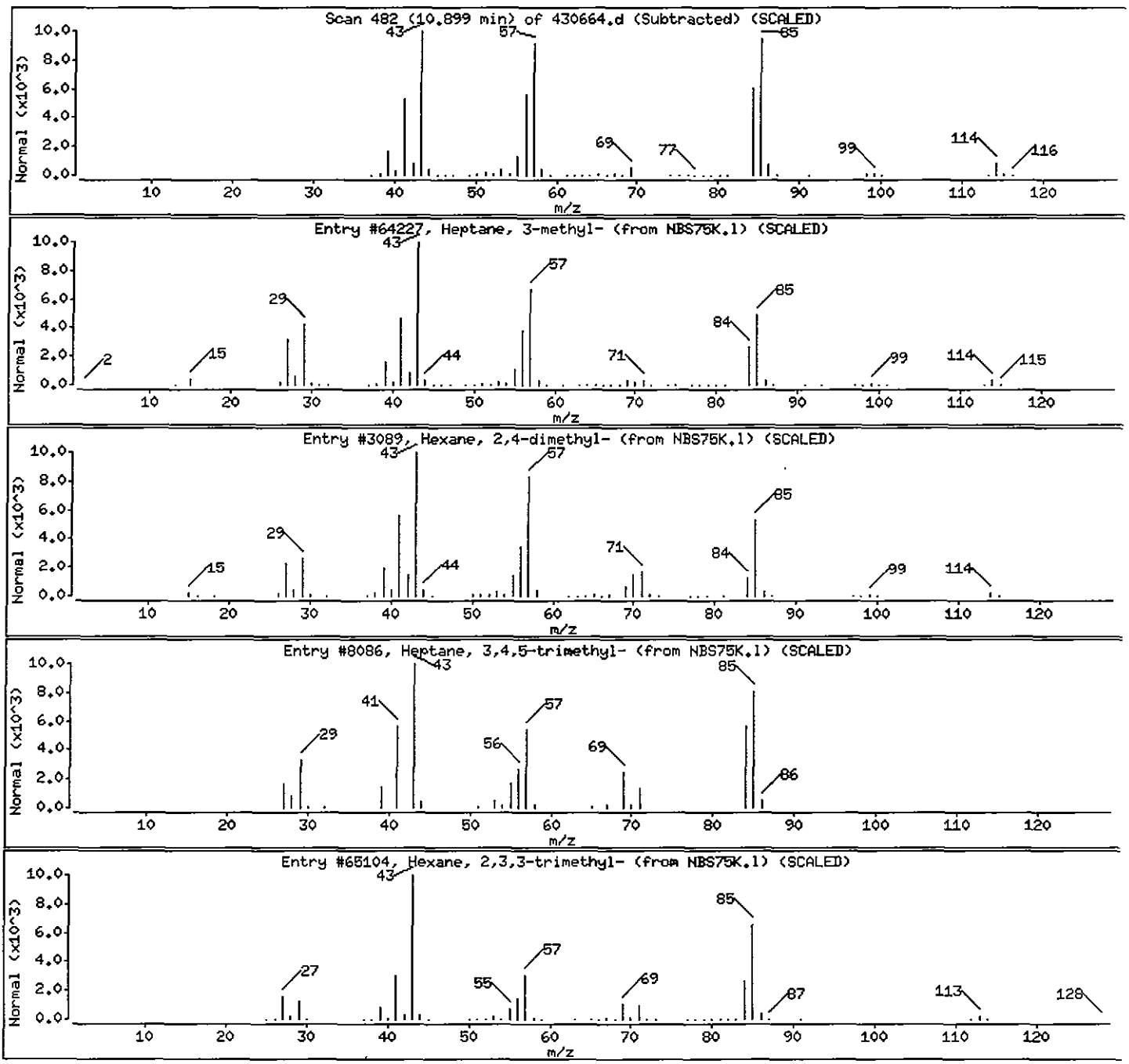
Client ID: 028ACAEA0918 Instrument: W.i

Sample Info: 430664;028ACAEA0918;79819;0922Y4

Purge Volume: 200.0 Operator: GMM

Column phase: DB-1 Column diameter: 0.35

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown alkane						
Heptane, 3-methyl-	589-81-1	NBS75K.l	64227	91	C8H18	114
Hexane, 2,4-dimethyl-	589-43-5	NBS75K.l	3089	72	C8H18	114
Heptane, 3,4,5-trimethyl-	20278-89-1	NBS75K.l	8086	72	C10H22	142
Hexane, 2,3,3-trimethyl-	16747-28-7	NBS75K.l	65104	64	C9H20	128



Data File: /chem/W.i/Wsvr.p/wcbtto14.b/430664.d

Date : 22-SEP-2000 17:02

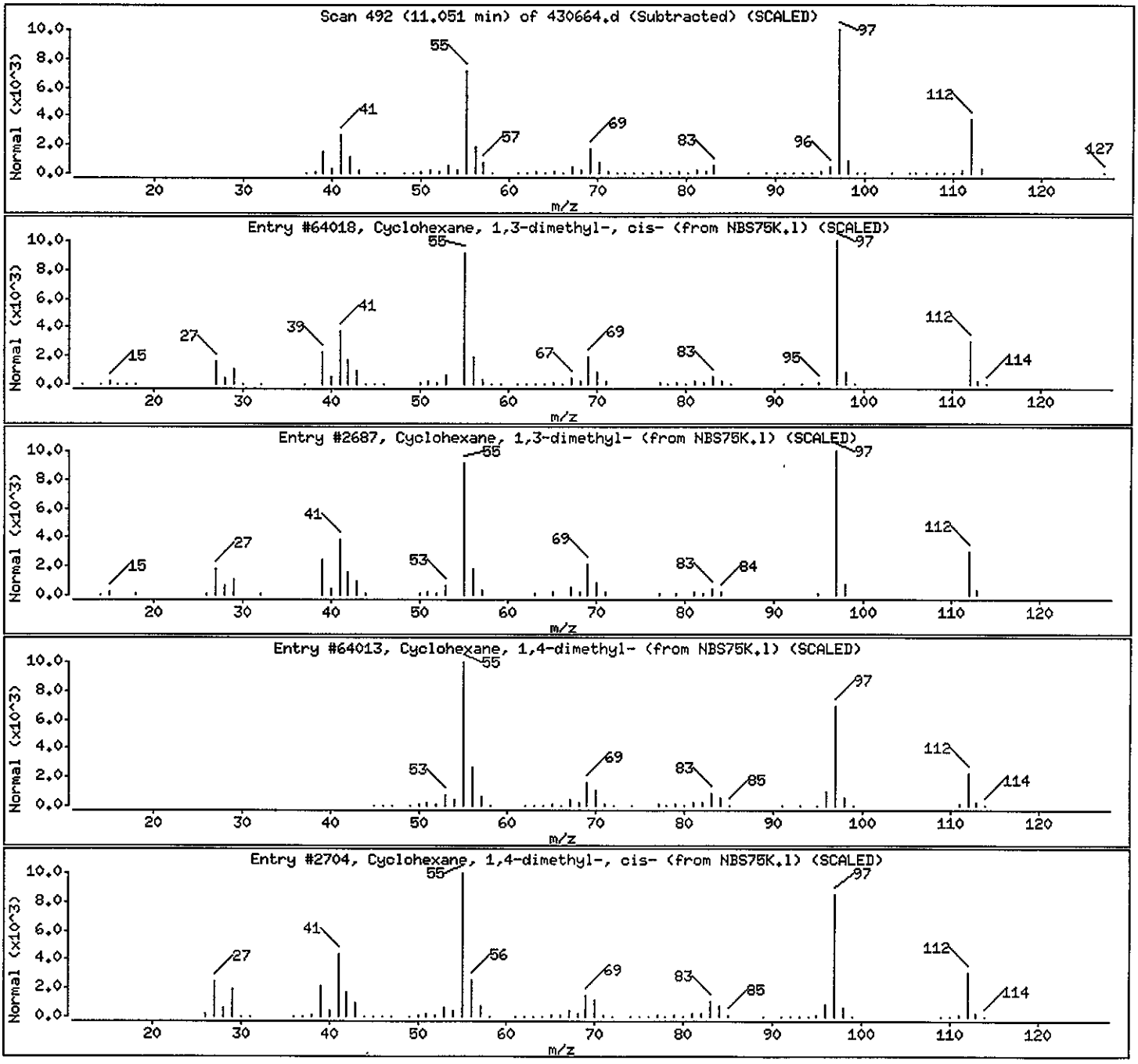
Client ID: 028ACAEA0918 Instrument: W.i

Sample Info: 430664;028ACAEA0918;79819;0922Y4

Purge Volume: 200.0 Operator: GMM

Column phase: DB-1 Column diameter: 0.35

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown alkylcyclohexane						
Cyclohexane, 1,3-dimethyl-, cis-	638-04-0	NBS75K.l	64018	91	C8H16	112
Cyclohexane, 1,3-dimethyl-	591-21-9	NBS75K.l	2687	91	C8H16	112
Cyclohexane, 1,4-dimethyl-	589-90-2	NBS75K.l	64013	90	C8H16	112
Cyclohexane, 1,4-dimethyl-, cis-	624-29-3	NBS75K.l	2704	90	C8H16	112



Data File: /chem/W.i/Wsvr.p/wcbtto14.b/430664.d

Date : 22-SEP-2000 17:02

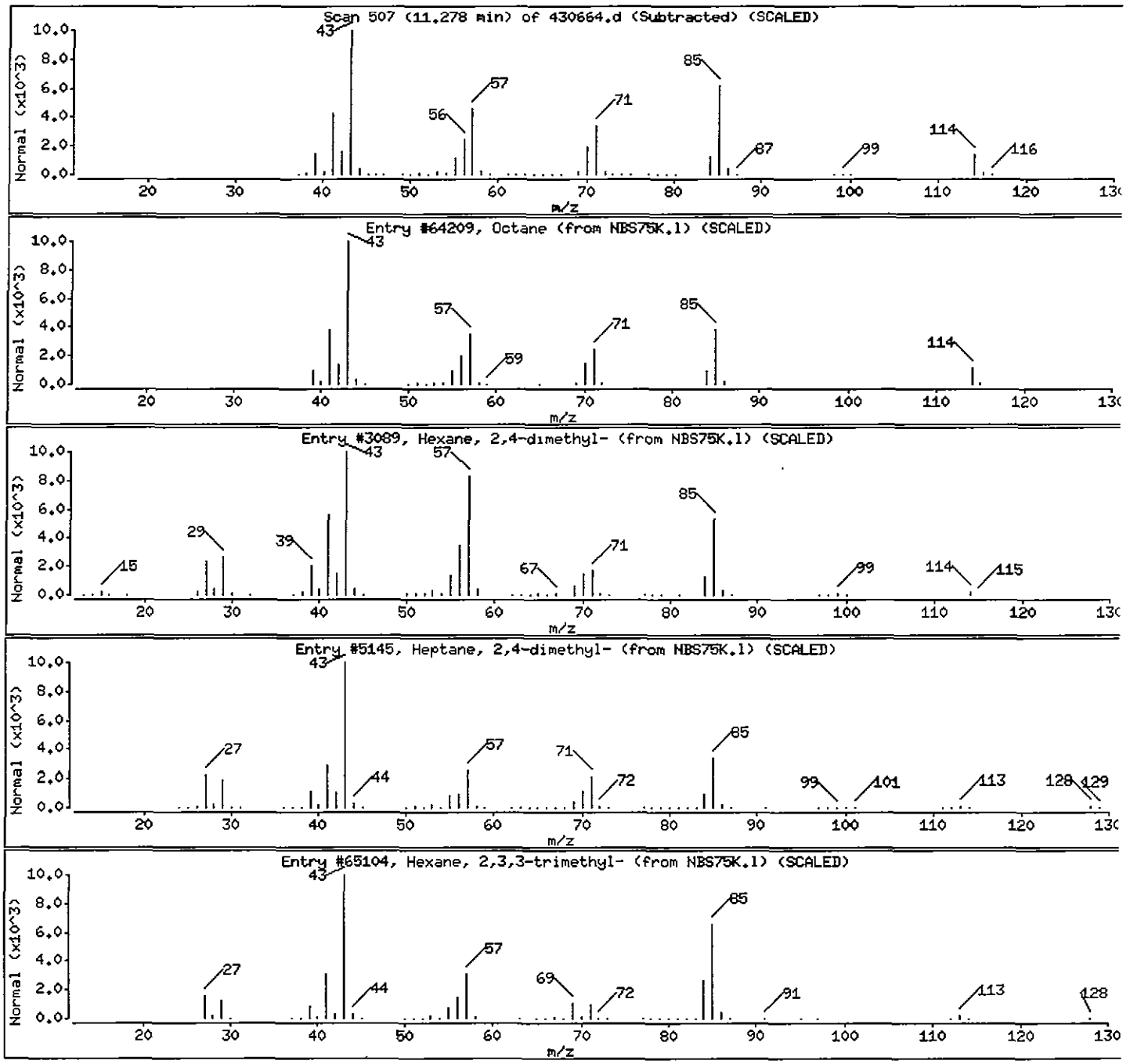
Client ID: 028ACAEA0918 Instrument: W.i

Sample Info: 430664;028ACAEA0918;79819;0922Y4

Purge Volume: 200.0 Operator: GMM

Column phase: DB-1 Column diameter: 0.35

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown alkane						
Octane	111-65-9	NBS75K.l	64209	95	C8H18	114
Hexane, 2,4-dimethyl-	589-43-5	NBS75K.l	3089	59	C8H18	114
Heptane, 2,4-dimethyl-	2213-23-2	NBS75K.l	5145	59	C9H20	128
Hexane, 2,3,3-trimethyl-	16747-28-7	NBS75K.l	65104	50	C9H20	128



Data File: /chem/W.i/Wsvr.p/wcbtto14.b/430664.d

Date : 22-SEP-2000 17:02

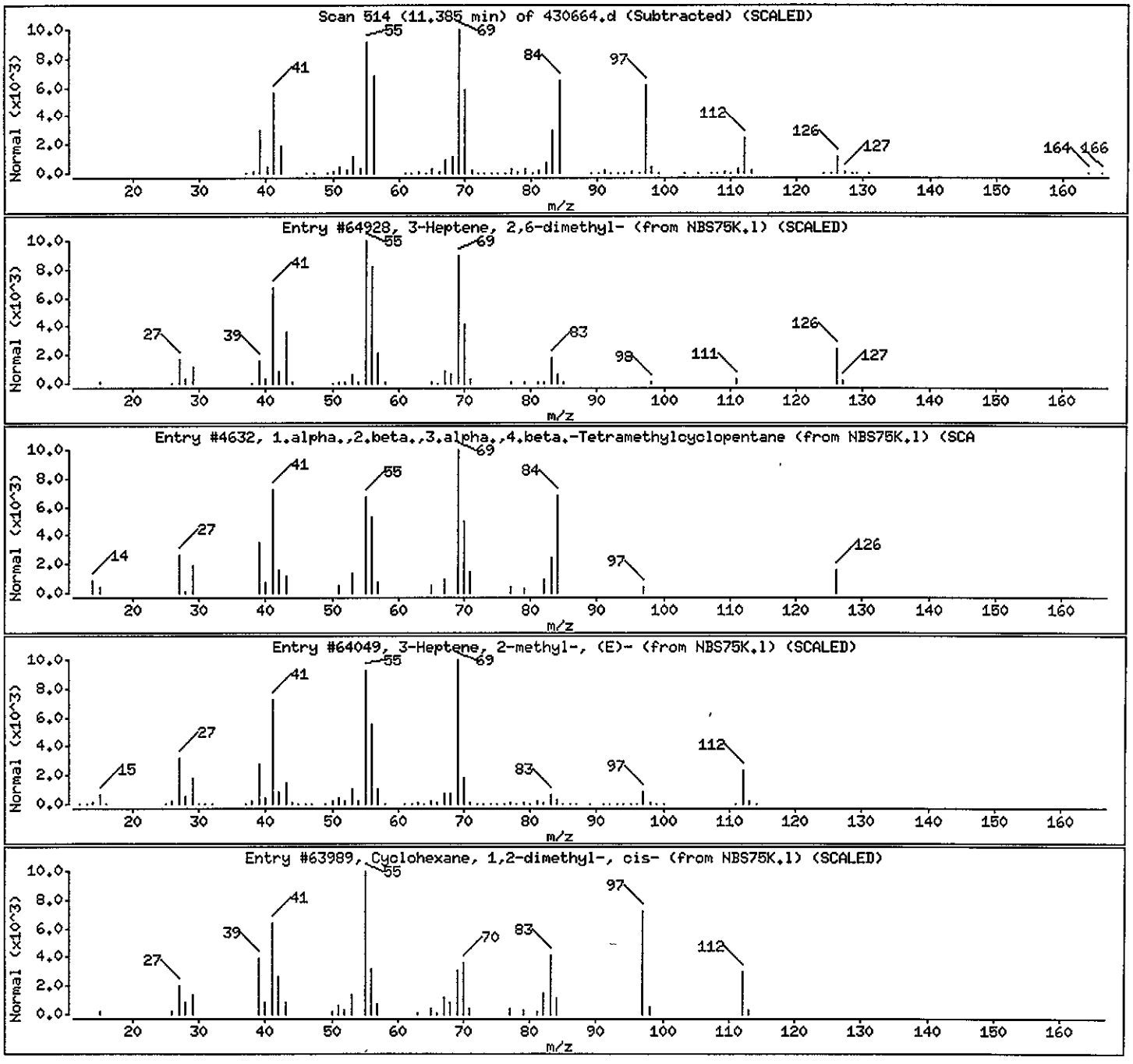
Client ID: 028ACAEA0918 Instrument: W.i

Sample Info: 430664;028ACAEA0918;79819;0922Y4

Purge Volume: 200.0 Operator: GHM

Column phase: DB-1 Column diameter: 0.35

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
3-Heptene, 2,6-dimethyl-	2738-18-3	NBS75K.l	64928	62	C9H18	126
1.alpha.,2.beta.,3.alpha.,4.beta.-Tetram	2532-67-4	NBS75K.l	4632	52	C9H18	126
3-Heptene, 2-methyl-, (E)-	692-96-6	NBS75K.l	64049	46	C8H16	112
Cyclohexane, 1,2-dimethyl-, cis-	2207-01-4	NBS75K.l	63989	46	C8H16	112



Data File: /chem/W.i/Wsvr.p/wcbtto14.b/430664.d

Date : 22-SEP-2000 17:02

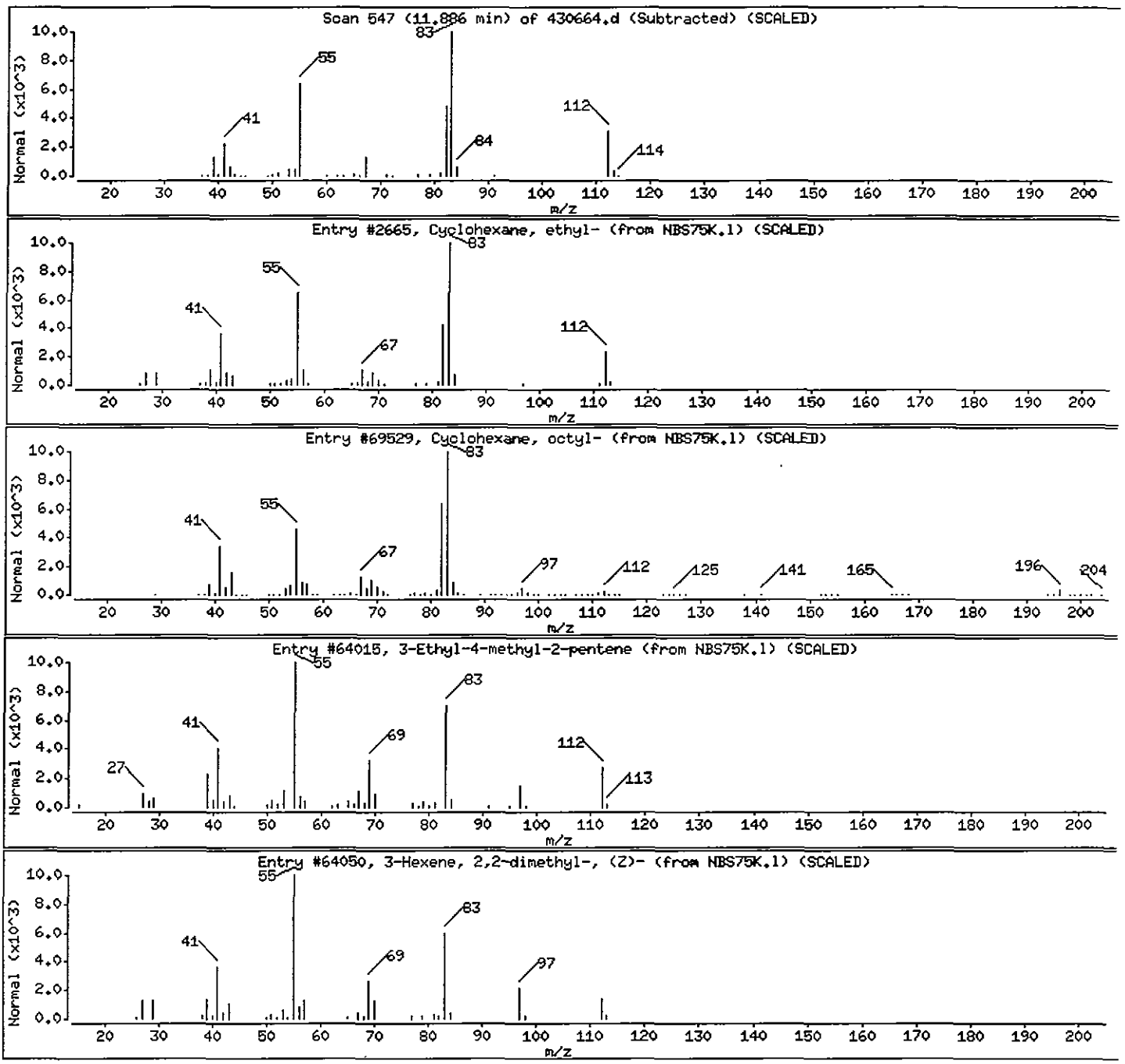
Client ID: 028ACAEA0918 Instrument: W.i

Sample Info: 430664;028ACAEA0918;79819;0922Y4

Purge Volume: 200.0 Operator: GMH

Column phase: DB-1 Column diameter: 0.35

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown alkylcyclohexane						
Cyclohexane, ethyl-	1678-91-7	NBS75K.1	2665	91	C8H16	112
Cyclohexane, octyl-	1795-15-9	NBS75K.1	69529	72	C14H28	196
3-Ethyl-4-methyl-2-pentene	19780-68-8	NBS75K.1	64015	53	C8H16	112
3-Hexene, 2,2-dimethyl-, (Z)-	690-92-6	NBS75K.1	64050	53	C8H16	112



Data File: /chem/W.i/Wsvr.p/wcbtto14.b/430664.d

Date : 22-SEP-2000 17:02

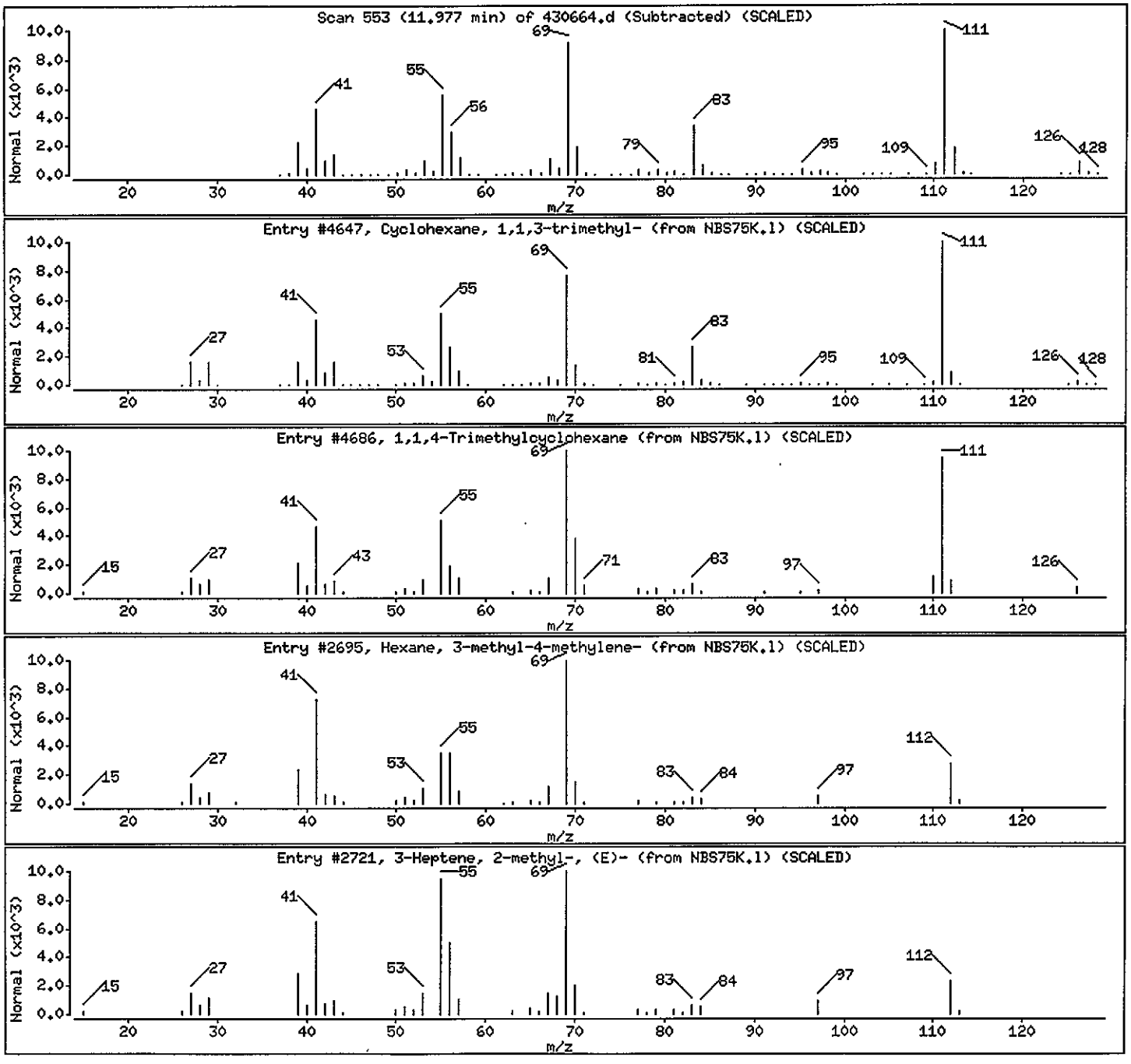
Client ID: 028ACAEA0918 Instrument: W.i

Sample Info: 430664;028ACAEA0918;79819;0922Y4

Purge Volume: 200.0 Operator: GMM

Column phase: DB-1 Column diameter: 0.35

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown alkylcyclohexane						
Cyclohexane, 1,1,3-trimethyl-	3073-66-3	NBS75K.l	4647	90	C9H18	126
1,1,4-Trimethylcyclohexane	7094-27-1	NBS75K.l	4686	68	C9H18	126
Hexane, 3-methyl-4-methylene-	3404-67-9	NBS75K.l	2695	46	C8H16	112
3-Heptene, 2-methyl-, (E)-	692-96-6	NBS75K.l	2721	46	C8H16	112



Data File: /chem/W.i/Wsvr.p/wcbtto14.b/430664.d

Date : 22-SEP-2000 17:02

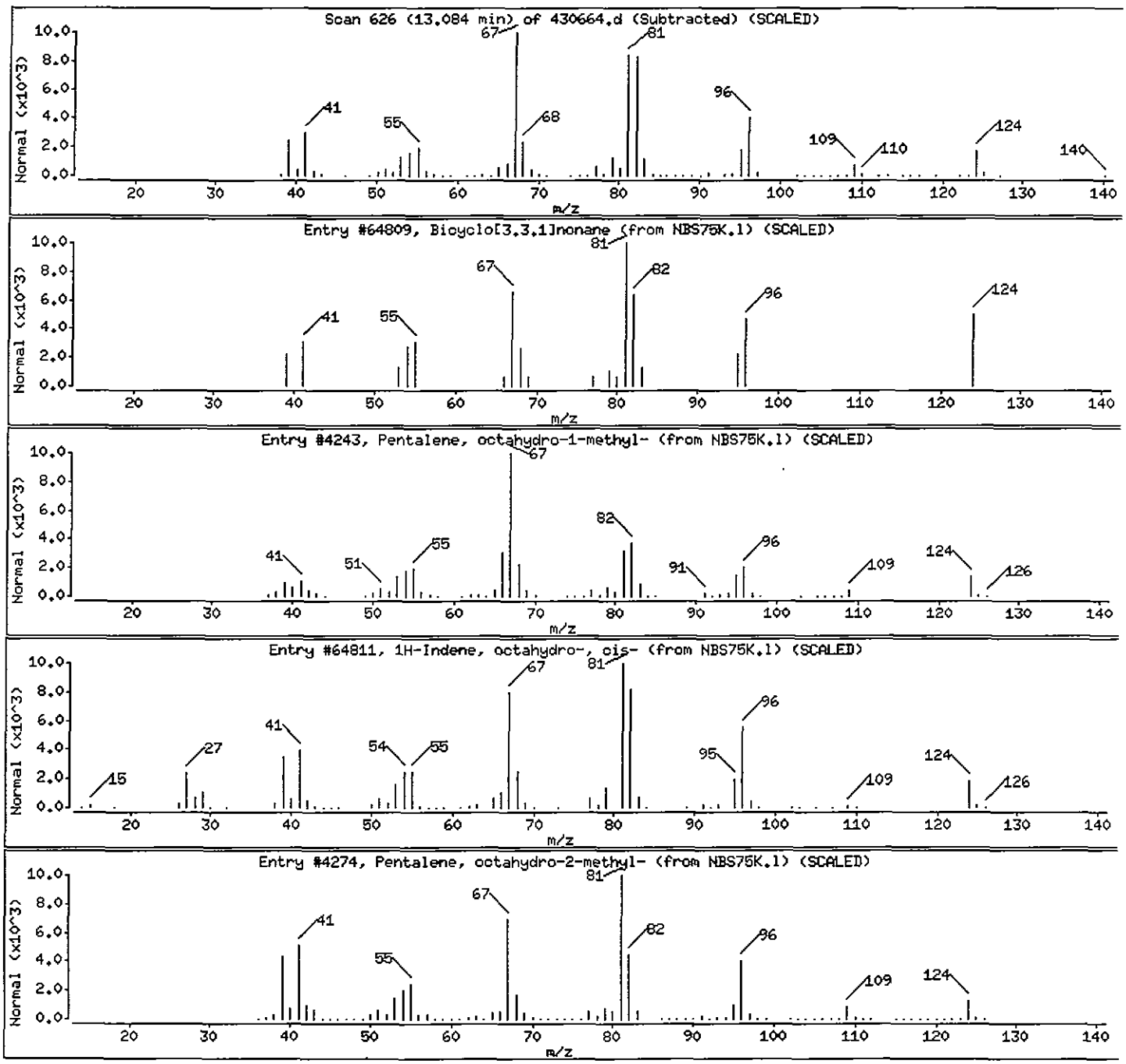
Client ID: 028ACAEA0918 Instrument: W.i

Sample Info: 430664;028ACAEA0918;79819;0922Y4

Purge Volume: 200.0 Operator: GMH

Column phase: DB-1 Column diameter: 0.35

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Bicyclo[3.3.1]nonane	280-65-9	NBS75K.l	64809	76	C9H16	124
Pentalene, octahydro-1-methyl-	32273-77-1	NBS75K.l	4243	50	C9H16	124
1H-Indene, octahydro-, cis-	4551-51-3	NBS75K.l	64811	50	C9H16	124
Pentalene, octahydro-2-methyl-	3868-64-2	NBS75K.l	4274	49	C9H16	124



FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

ACCANA SAMPLE NO.

028ACAIA0918

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 79819

Matrix: (soil/water) AIR Lab Sample ID: 430662

Sample wt/vol: 200 (g/mL) ML Lab File ID: 430662

Level: (low/med) LOW Date Received: 09/20/00

% Moisture: not dec. _____ Date Analyzed: 09/22/00

GC Column: DB-1 ID: 0.35 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) PPBV	Q
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl Chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-09-2	Methylene Chloride	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
56-23-5	Carbon Tetrachloride	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-88-3	Toluene	0.50	U
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
1330-20-7	Xylene (total)	0.50	U
100-42-5	Styrene	0.50	U
1330-20-7	Xylene (m,p)	0.50	U
95-47-6	Xylene (o)	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

ACCANA SAMPLE NO.

028ACAIA0918

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 79819

Matrix: (soil/water) AIR Lab Sample ID: 430662

Sample wt/vol: 200 (g/mL) ML Lab File ID: 430662

Level: (low/med) LOW Date Received: 09/20/00

% Moisture: not dec. _____ Date Analyzed: 09/22/00

GC Column: DB-1 ID: 0.35 (mm) Dilution Factor: 1.0

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

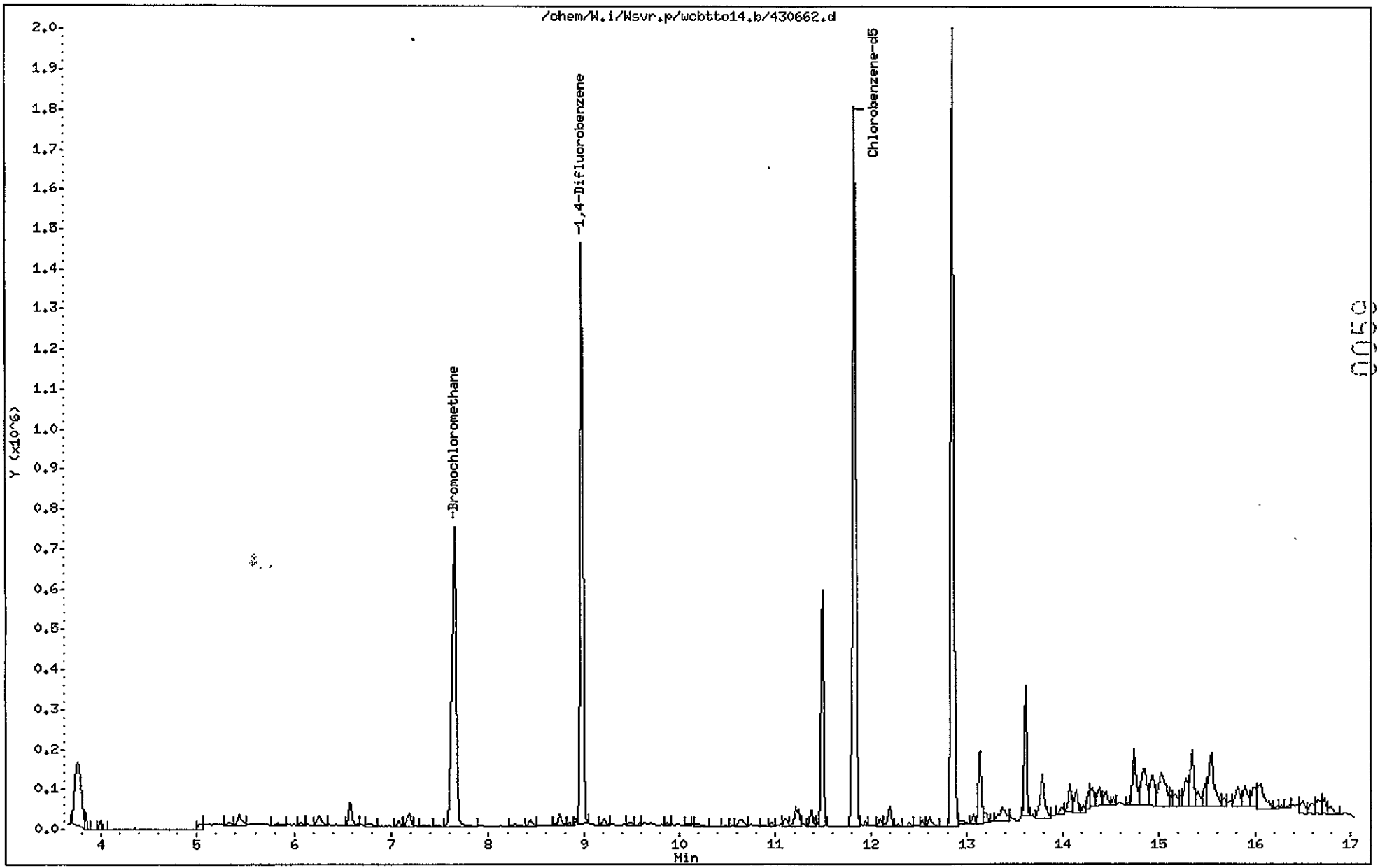
Number TICs found: 7

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

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		UNKNOWN SILOXANE DERIVATIVE	11.51	3.1	J
2.		UNKNOWN	13.15	1.1	J
3.		UNKNOWN	13.62	1.6	J
4.		UNKNOWN ALKANE W/ALKYLBENZEN	14.74	1.1	J
5.		UNKNOWN ALKYLCYCLOHEXANE	15.03	1.2	J
6.	5948-04-9	CYCLOHEXANONE, 2-METHYL-5-(1	15.35	1.1	NJ
7.		UNKNOWN	15.54	1.4	J
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					

Data File: /chem/W.i/Wsvr.p/wcbtto14.b/430662.d
Date : 22-SEP-2000 15:54
Client ID: 028ACAIA0918
Sample Info: 430662;028ACAIA0918;79819;0922Y4
Purge Volume: 200.0
Column phase: DB-1

Instrument: W.i
Operator: GMM
Column diameter: 0.35



STL Burlington

AIR TOXICS QUANTITATION REPORT

Data file : /chem/W.i/Wsvr.p/wcbtto14.b/430662.d
Lab Smp Id: 430662 Client Smp ID: 028ACAIA0918
Inj Date : 22-SEP-2000 15:54
Operator : GMM Inst ID: W.i
Smp Info : 430662;028ACAIA0918;79819;0922Y4
Misc Info :
Comment :
Method : /chem/W.i/Wsvr.p/wcbtto14.b/ato14.m
Meth Date : 29-Sep-2000 10:30 cmp Quant Type: ISTD
Cal Date : 10-JUL-2000 13:37 Cal File: cb0005i2.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ACCANA.sub
Target Version: 3.50
Processing Host: chemsvr4

Concentration Formula: Amt * DF * X* Uf/Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
X	200.00000	method volume factor
Uf	1.00000	ng unit correction factor
Vo	200.00000	Sample Volume purged (mL)

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
	2 Chloromethane	50	Compound Not Detected.						
	4 Vinyl Chloride	62	Compound Not Detected.						
	5 Bromomethane	94	Compound Not Detected.						
	6 Chloroethane	64	Compound Not Detected.						
	7 Trichlorofluoromethane	101	Compound Not Detected.						
	9 Methylene Chloride	49	Compound Not Detected.						
	11 1,1-Dichloroethane	63	Compound Not Detected.						
*	13 Bromochloromethane	128	7.652	7.698	(1.000)	283644	10.0000		(Q)
	14 Chloroform	83	Compound Not Detected.						
	15 1,2-Dichloroethane	62	Compound Not Detected.						
	16 1,1,1-Trichloroethane	97	Compound Not Detected.						
	17 Benzene	78	Compound Not Detected.						
	18 Carbon Tetrachloride	117	Compound Not Detected.						
*	19 1,4-Difluorobenzene	114	8.973	9.003	(1.000)	1297769	10.0000		
	20 1,2-Dichloropropane	63	Compound Not Detected.						

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)
	21 Trichloroethene	95	Compound Not Detected.					
	22 cis-1,3-Dichloropropene	75	Compound Not Detected.					
	23 trans-1,3-Dichloropropene	75	Compound Not Detected.					
	24 1,1,2-Trichloroethane	83	Compound Not Detected.					
	25 Toluene	92	Compound Not Detected.					
	27 Tetrachloroethene	166	Compound Not Detected.					
*	28 Chlorobenzene-d5	117	11.826	11.841	(1.000)	1196483	10.0000	
	29 Chlorobenzene	112	Compound Not Detected.					
	30 Ethylbenzene	91	Compound Not Detected.					
	31 Xylene (m,p)	106	Compound Not Detected.					
	32 Styrene	104	Compound Not Detected.					
M	33 Xylene (total)	106	Compound Not Detected.					
	34 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					
	35 Xylene (o)	106	Compound Not Detected.					
	38 1,3-Dichlorobenzene	146	Compound Not Detected.					
	39 1,4-Dichlorobenzene	146	Compound Not Detected.					
	40 1,2-Dichlorobenzene	146	Compound Not Detected.					

QC Flag Legend

Q - Qualifier signal failed the ratio test.

STL Burlington

AIR TOXICS QUANTITATION REPORT

Data file : /chem/W.i/Wsvr.p/wcbtto14.b/430662.d
Lab Smp Id: 430662 Client Smp ID: 028ACAIA0918
Inj Date : 22-SEP-2000 15:54
Operator : GMM Inst ID: W.i
Smp Info : 430662;028ACAIA0918;79819;0922Y4
Misc Info :
Comment :
Method : /chem/W.i/Wsvr.p/wcbtto14.b/ato14.m
Meth Date : 29-Sep-2000 10:30 cmp Quant Type: ISTD
Cal Date : 10-JUL-2000 13:37 Cal File: cb0005i2.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ACCANA.sub
Target Version: 3.50
Processing Host: chemsvr4

Concentration Formula: Amt * DF * X* Uf/Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
X	200.00000	method volume factor
Uf	1.00000	ng unit correction factor
Vo	200.00000	Sample Volume purged (mL)

Cpnd Variable Local Compound Variable

ISTD	RT	AREA	AMOUNT
* 28 Chlorobenzene-d5	11.826	3827887	10.000

	CONCENTRATIONS			QUANT		
RT	AREA	ON-COL(ppbv)	FINAL(ppbv)	QUAL	LIBRARY	LIB ENTRY	CPND #
Unknown siloxane derivative				CAS #:			
11.507	1186465	3.09953014	3.1	0		0	28
Unknown				CAS #:			
13.146	422205	1.10297169	1.1	0		0	28

RT	AREA	CONCENTRATIONS ON-COL(ppbv)	FINAL(ppbv)	QUAL	QUANT LIBRARY	LIB ENTRY	CPND #
Unknown				CAS #:			
13.616	632742	1.65297951	1.6	0		0	28
Unknown alkane W/alkylbenzene				CAS #:			
14.739	423921	1.10745439	1.1	0		0	28
Unknown alkylcyclohexane				CAS #:			
15.028	449682	1.17475110	1.2	0		0	28
Cyclohexanone, 2-methyl-5-(1-methylethen				CAS #:	5948-04-9		
15.346	420523	1.09857687	1.1	86	NBS75K.1	66974	28
Unknown				CAS #:			
15.544	530431	1.38570137	1.4	0		0	28

Data File: /chem/W.i/Wsvr.p/wcbtto14.b/430662.d

Date : 22-SEP-2000 15:54

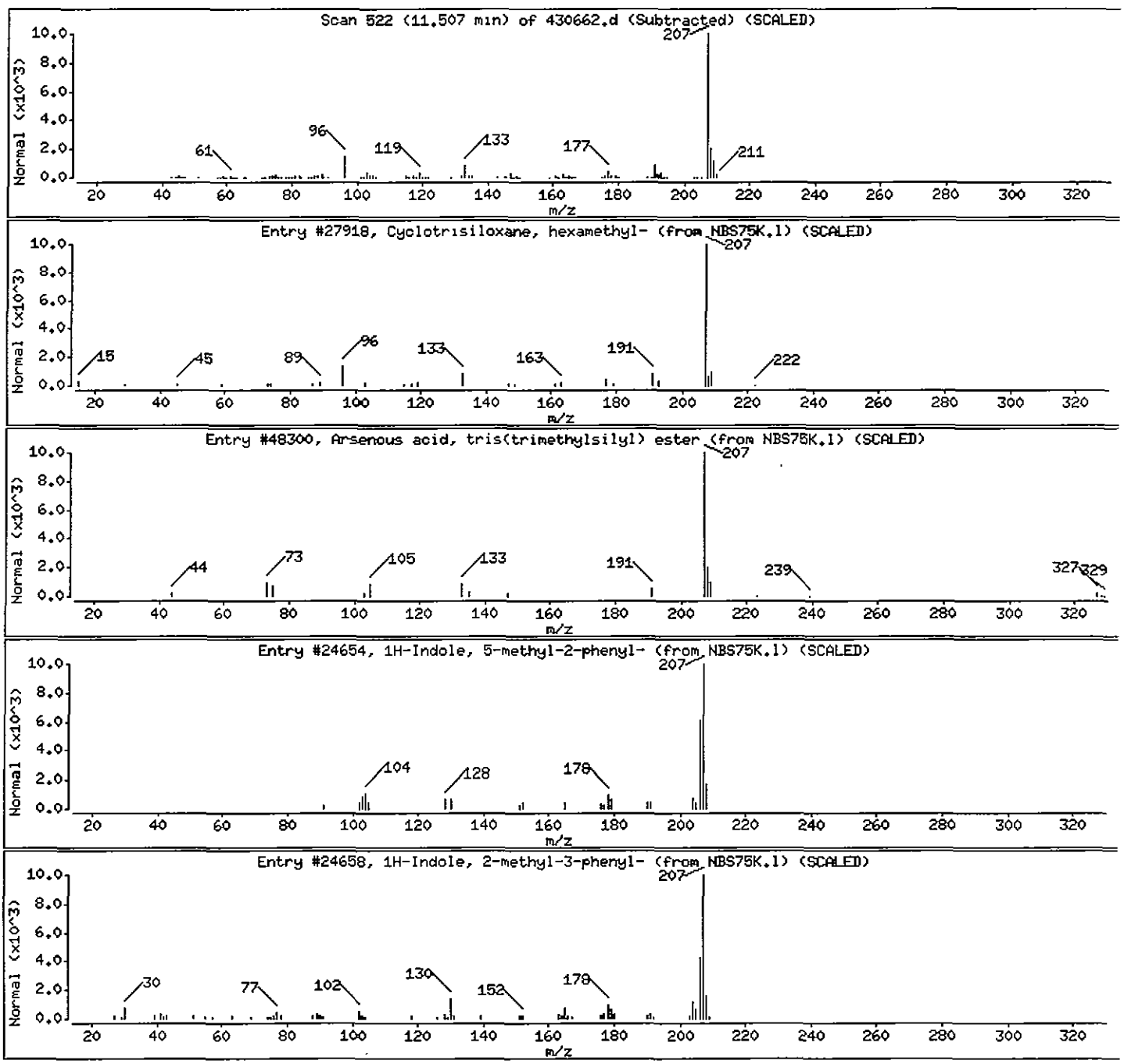
Client ID: 028ACAIA0918 Instrument: W.i

Sample Info: 430662;028ACAIA0918;79819;0922Y4

Purge Volume: 200.0 Operator: GHH

Column phase: DB-1 Column diameter: 0.35

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown siloxane derivative						
Cyclotrisiloxane, hexamethyl-	541-05-9	NBS75K.l	27918	80	C6H18O3Si3	222
Arsenous acid, tris(trimethylsilyl) este	55429-29-3	NBS75K.l	48300	56	C9H27AsO3Si3	342
1H-Indole, 5-methyl-2-phenyl-	13228-36-9	NBS75K.l	24654	38	C15H13N	207
1H-Indole, 2-methyl-3-phenyl-	4757-69-1	NBS75K.l	24658	9	C15H13N	207



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Date : 22-SEP-2000 15:54

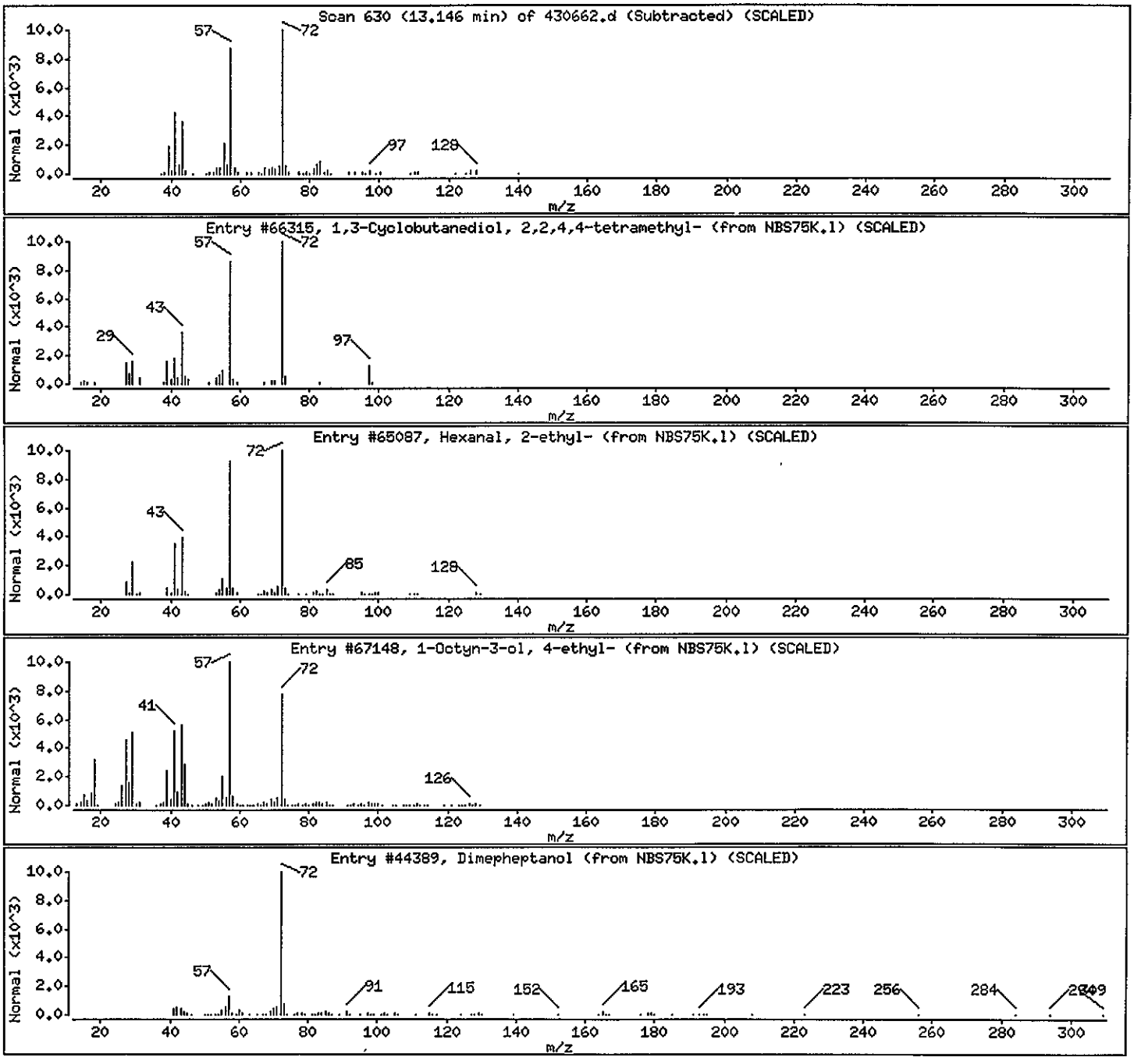
Client ID: 028ACAIA0918 Instrument: W.i

Sample Info: 430662;028ACAIA0918;79819;0922Y4

Purge Volume: 200.0 Operator: GMM

Column phase: DB-1 Column diameter: 0.35

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
1,3-Cyclobutanediol, 2,2,4,4-tetramethyl	3010-96-6	NBS75K.l	66315	72	C8H1602	144
Hexanal, 2-ethyl-	123-05-7	NBS75K.l	65087	72	C8H160	128
1-Octyn-3-ol, 4-ethyl-	5877-42-9	NBS75K.l	67148	64	C10H18O	154
Dimepheptanol	545-90-4	NBS75K.l	44389	59	C21H29NO	311



Data File: /chem/W.i/Wsvr.p/wcbtto14.b/430662.d

Date : 22-SEP-2000 15:54

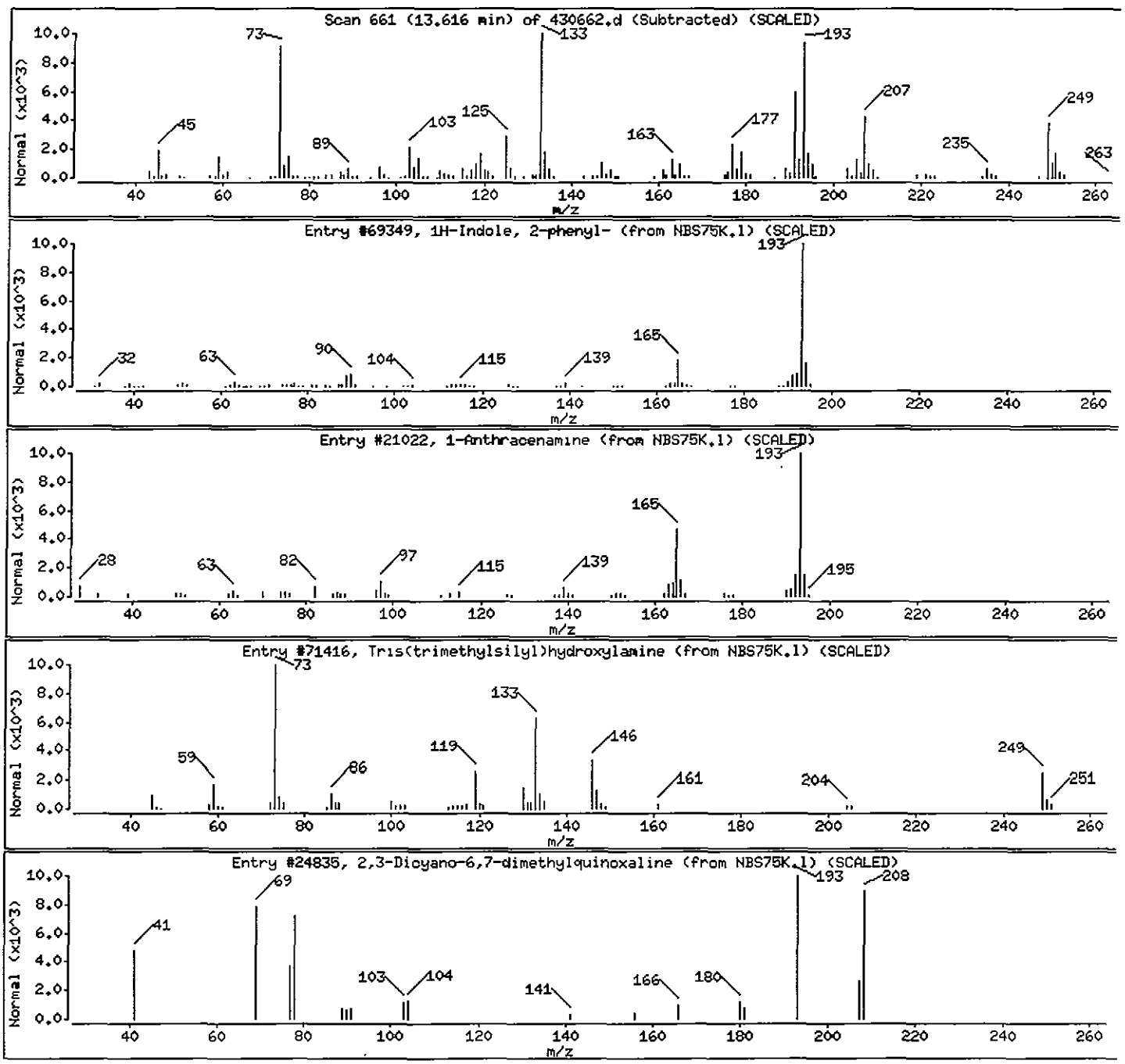
Client ID: 028ACAIA0918 Instrument: W.i

Sample Info: 430662;028ACAIA0918;79819;0922Y4

Purge Volume: 200.0 Operator: GMM

Column phase: DB-1 Column diameter: 0.35

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
1H-Indole, 2-phenyl-	948-65-2	NBS75K.l	69349	18	C14H11N	193
1-Anthracenamine	610-49-1	NBS75K.l	21022	18	C14H11N	193
Tris(trimethylsilyl)hydroxylamine	21023-20-1	NBS75K.l	71416	16	C9H27NOSi3	249
2,3-Dicyano-6,7-dimethylquinoxaline	0-00-0	NBS75K.l	24835	14	C12H8N4	208



Data File: /chem/W.i/Wsvr.p/wcbtto14.b/430662.d

Date : 22-SEP-2000 15:54

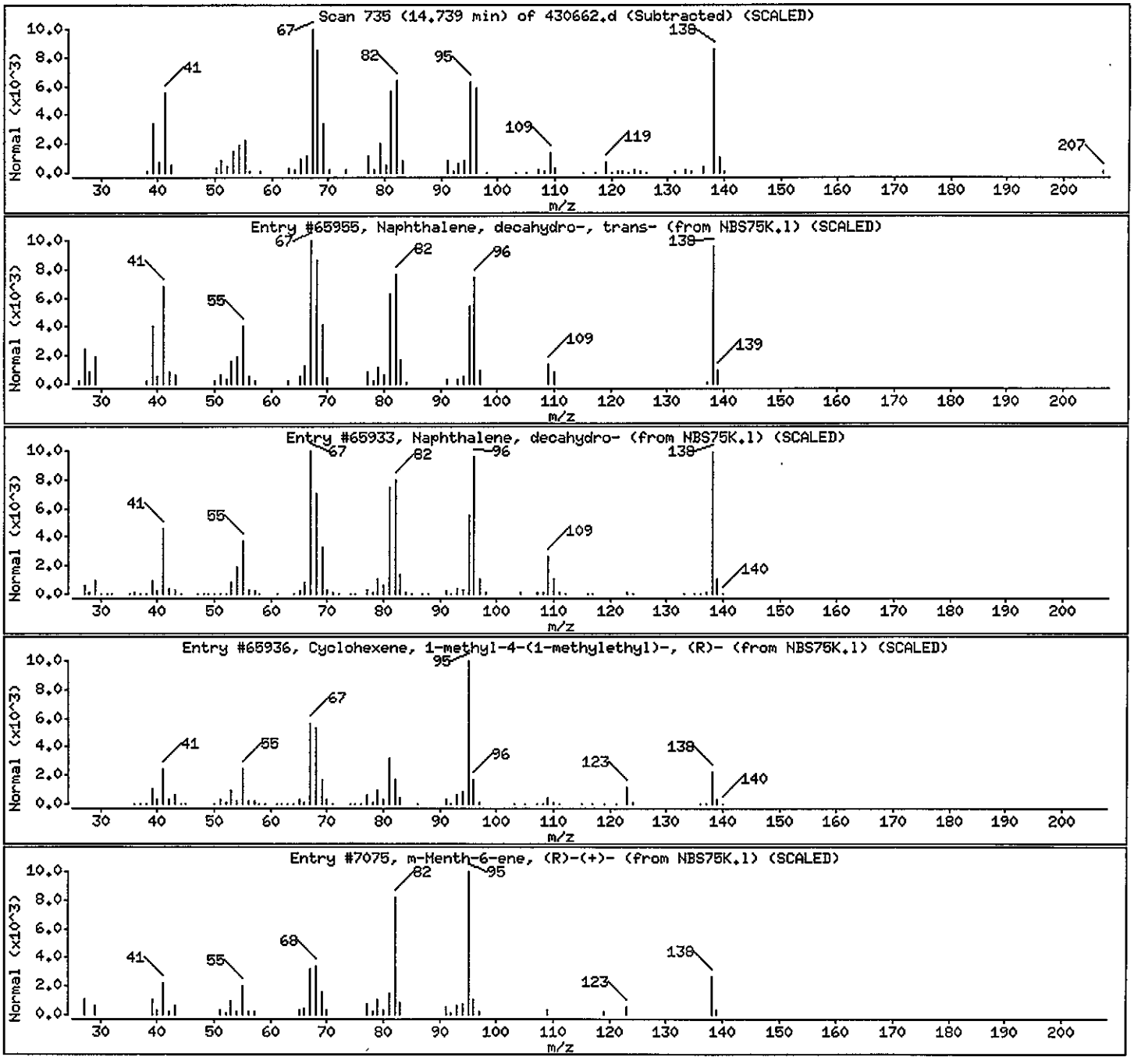
Client ID: 028ACAIA0918 Instrument: W.i

Sample Info: 430662;028ACAIA0918;79819;0922Y4

Purge Volume: 200.0 Operator: GHM

Column phase: DB-1 Column diameter: 0.35

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown alkane W/alkylbenzene						
Naphthalene, decahydro-, trans-	493-02-7	NBS75K.l	65955	95	C10H18	138
Naphthalene, decahydro-	91-17-8	NBS75K.l	65933	90	C10H18	138
Cyclohexene, 1-methyl-4-(1-methylethyl)-	1195-31-9	NBS75K.l	65936	76	C10H18	138
m-Menth-6-ene, (R)-(+)-	13837-70-2	NBS75K.l	7075	68	C10H18	138



Data File: /chem/W.i/Wsvr.p/wcbtto14.b/430662.d

Date : 22-SEP-2000 15:54

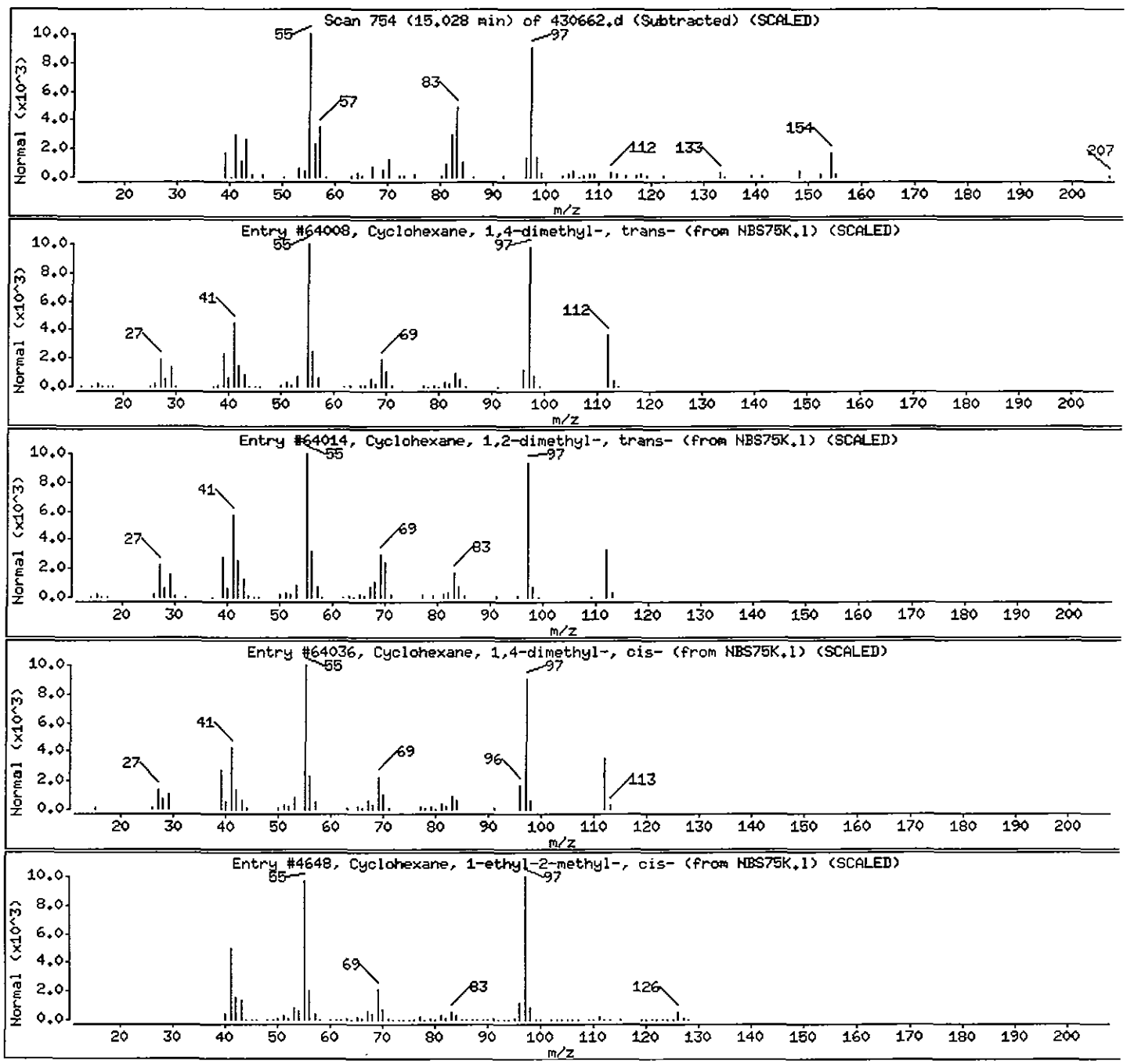
Client ID: 028ACAIA0918 Instrument: W.i

Sample Info: 430662;028ACAIA0918;79819;0922Y4

Purge Volume: 200.0 Operator: GMH

Column phase: DB-1 Column diameter: 0.35

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown alkylcyclohexane						
Cyclohexane, 1,4-dimethyl-, trans-	2207-04-7	NBS75K.l	64008	50	C8H16	112
Cyclohexane, 1,2-dimethyl-, trans-	6876-23-9	NBS75K.l	64014	50	C8H16	112
Cyclohexane, 1,4-dimethyl-, cis-	624-29-3	NBS75K.l	64036	50	C8H16	112
Cyclohexane, 1-ethyl-2-methyl-, cis-	4923-77-7	NBS75K.l	4648	50	C9H18	126



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Date : 22-SEP-2000 15:54

Client ID: 028ACAIA0918

Instrument: W.i

Sample Info: 430662;028ACAIA0918;79819;0922Y4

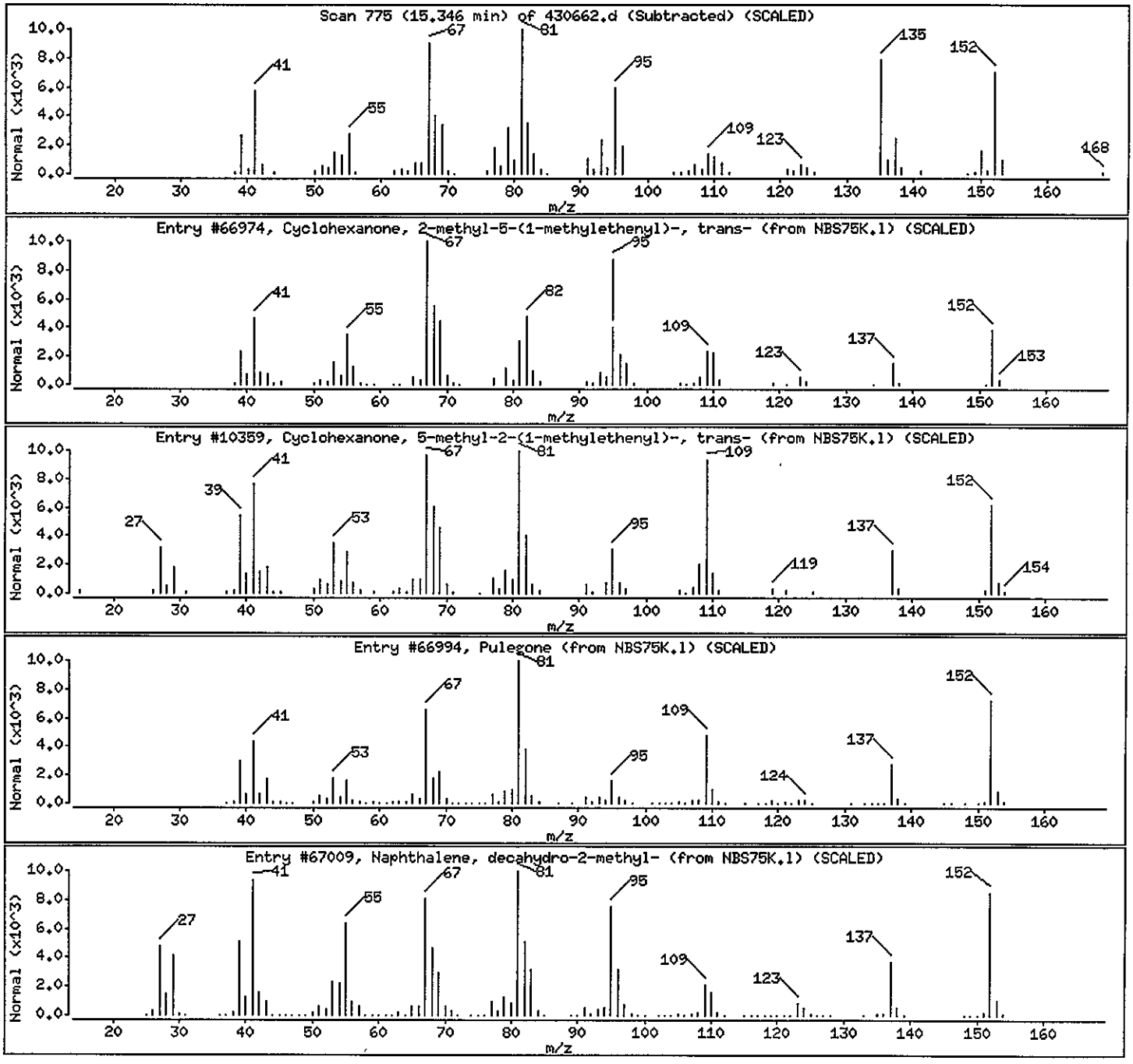
Purge Volume: 200.0

Operator: GMM

Column phase: DB-1

Column diameter: 0.35

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Cyclohexanone, 2-methyl-5-(1-methylethen	5948-04-9	NBS75K.l	66974	86	C10H16O	152
Cyclohexanone, 5-methyl-2-(1-methylethen	29606-79-9	NBS75K.l	10359	55	C10H16O	152
Pulegone	89-82-7	NBS75K.l	66994	50	C10H16O	152
Naphthalene, decahydro-2-methyl-	2958-76-1	NBS75K.l	67009	46	C11H20	152



Data File: /chem/W.i/Wsvr.p/ucbtto14.b/430662.d

Date : 22-SEP-2000 15:54

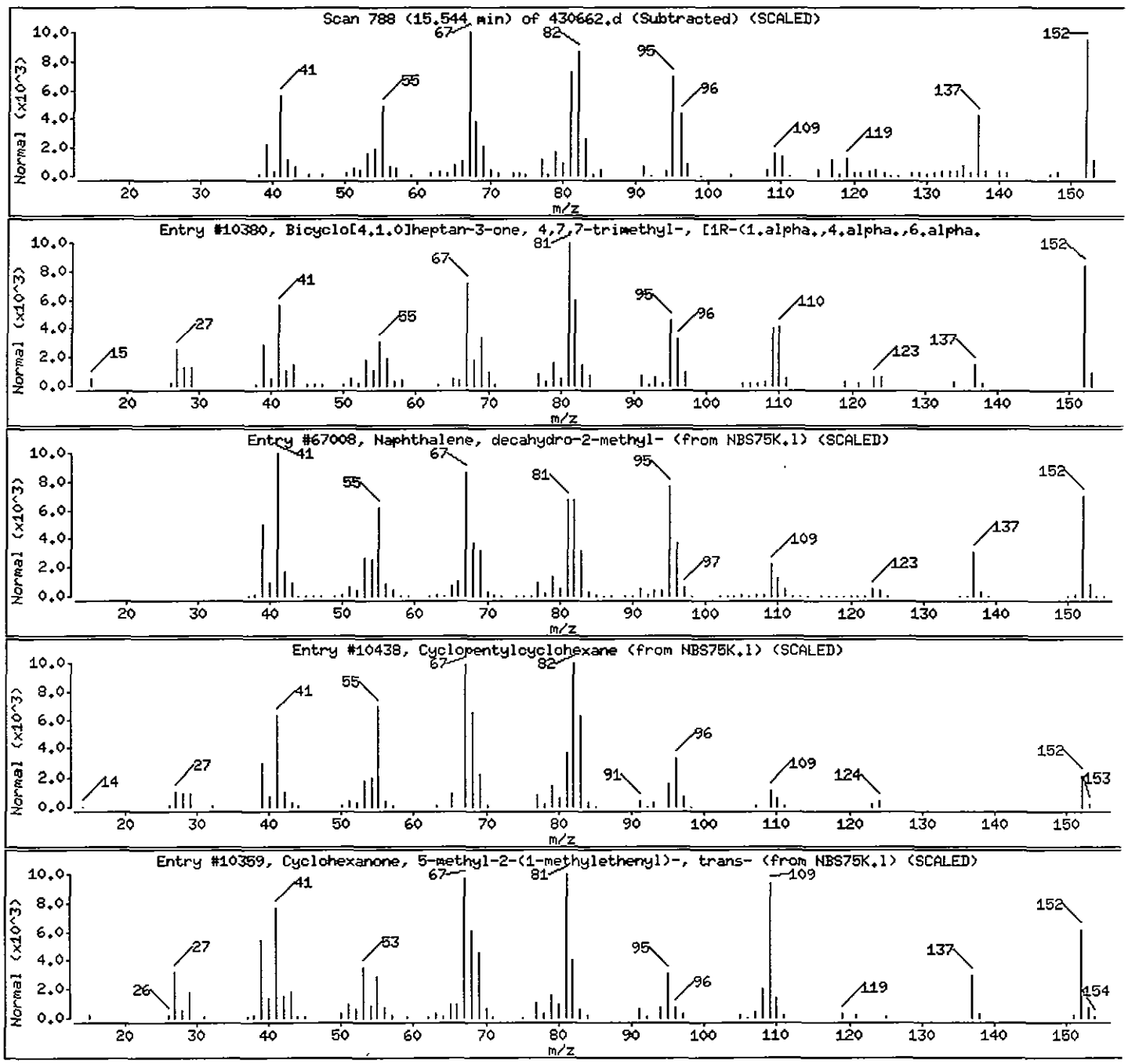
Client ID: 028ACAIA0918 Instrument: W.i

Sample Info: 430662;028ACAIA0918;79819;0922Y4

Purge Volume: 200.0 Operator: GMH

Column phase: DB-1 Column diameter: 0.35

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Bicyclo[4.1.0]heptan-3-one, 4,7,7-trimet	4176-04-9	NBS75K.l	10380	72	C10H16O	152
Naphthalene, decahydro-2-methyl-	2958-76-1	NBS75K.l	67008	64	C11H20	152
Cyclopentylcyclohexane	1606-08-2	NBS75K.l	10438	64	C11H20	152
Cyclohexanone, 5-methyl-2-(1-methylethen	29606-79-9	NBS75K.l	10359	46	C10H16O	152



SEVERN TRENT SERVICES

Severn Trent Laboratories, Inc.

METHOD TO-14A
VOLATILE ORGANIC ANALYSIS

STANDARDS

6A
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 79819

Instrument ID: W Calibration Date(s): 07/10/00 07/10/00

Heated Purge: (Y/N) N Calibration Time(s): 1021 1337

GC Column: DB-1 ID: 0.35 (mm)

LAB FILE ID: RRF0.5=CB0005I2 RRF5 =CB005
RRF10 =CB010 RRF20 =CB020 RRF40 =CB040

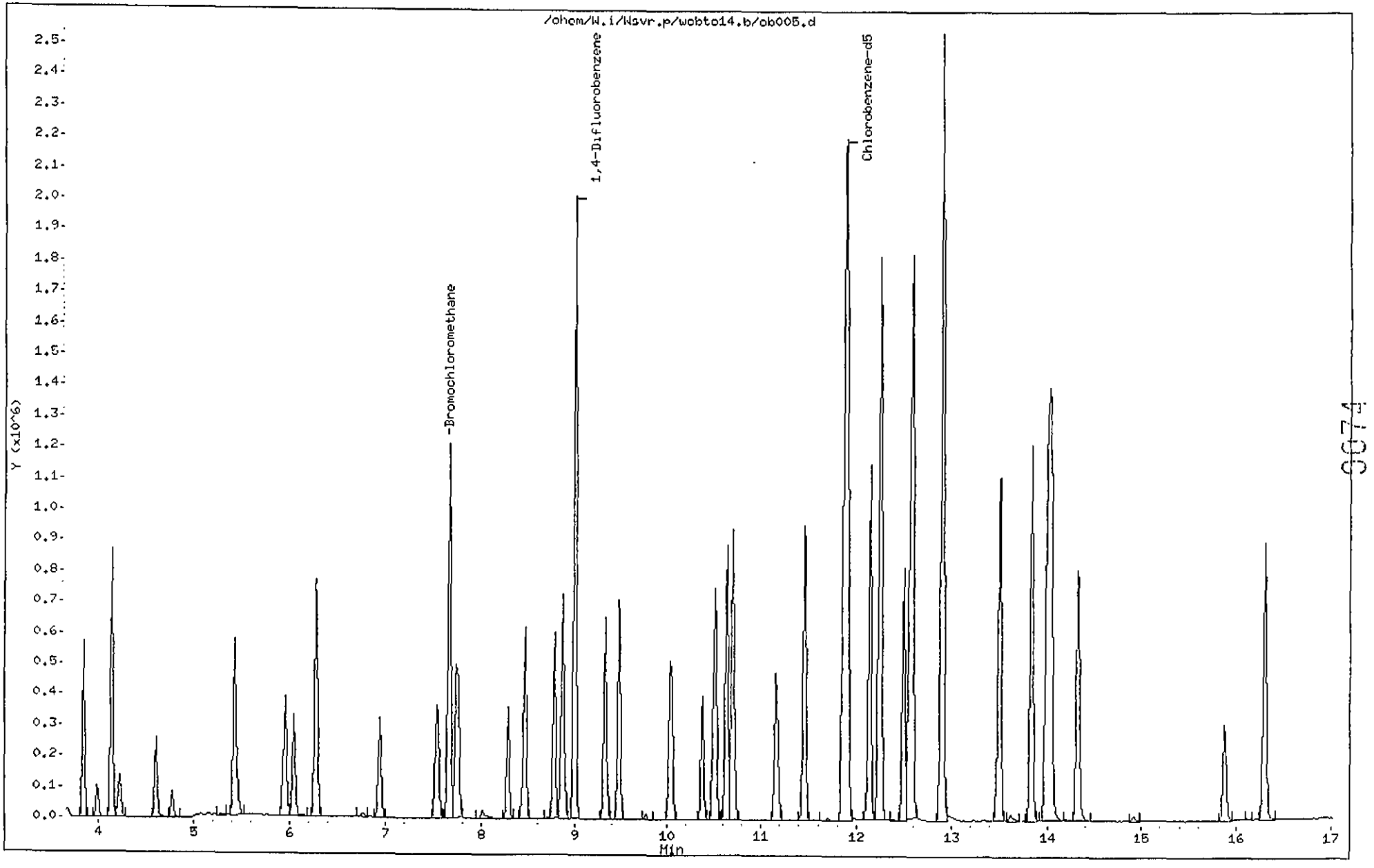
COMPOUND	RRF0.5	RRF5	RRF10	RRF20	RRF40	$\overline{RRF}$	% RSD
Chloromethane *	0.968	0.672	0.708	0.648	0.627	0.725	19.2*
Vinyl Chloride	0.928	0.775	0.792	0.716	0.704	0.783	11.4
Bromomethane	1.272	1.006	1.018	0.896	0.861	1.011	16.0
Chloroethane	0.540	0.458	0.450	0.408	0.435	0.458	10.8
Trichlorofluoromethane	3.108	2.834	2.601	2.153	2.244	2.588	15.4
Methylene Chloride	1.676	1.157	1.130	0.952	0.926	1.168	25.8
1,1-Dichloroethane *	2.306	1.944	1.891	1.731	1.542	1.883	15.1*
Chloroform	2.896	2.499	2.405	2.184	2.011	2.399	14.0
1,1,1-Trichloroethane	2.670	2.427	2.324	2.119	1.930	2.294	12.4
Carbon Tetrachloride	0.543	0.556	0.512	0.466	0.409	0.497	12.1
Benzene	0.801	0.723	0.686	0.638	0.575	0.685	12.5
1,2-Dichloroethane	1.943	1.791	1.690	1.552	1.436	1.682	11.8
Trichloroethene	0.350	0.347	0.320	0.298	0.259	0.315	12.0
1,2-Dichloropropane	0.294	0.287	0.267	0.245	0.216	0.262	12.2
cis-1,3-Dichloropropene	0.418	0.434	0.425	0.409	0.366	0.410	6.4
Toluene	0.479	0.578	0.552	0.489	0.408	0.501	13.3
trans-1,3-Dichloropropene	0.318	0.329	0.332	0.322	0.298	0.320	4.2
1,1,2-Trichloroethane	0.303	0.303	0.282	0.255	0.224	0.273	12.4
Tetrachloroethene	0.348	0.439	0.412	0.369	0.304	0.374	14.3
Chlorobenzene *	0.624	0.767	0.717	0.622	0.508	0.648	15.4*
Ethylbenzene	0.952	1.346	1.290	1.111	0.899	1.120	17.7
Xylene (total)	1.004	1.431	1.378	1.236	1.055	1.221	15.5
Styrene	0.330	0.648	0.638	0.582	0.509	0.541	24.1
Xylene (m,p)	0.344	0.481	0.460	0.413	0.353	0.410	15.0
Xylene (o)	0.317	0.470	0.458	0.410	0.349	0.401	16.6
1,1,2,2-Tetrachloroethane	0.510	0.870	0.803	0.688	0.558	0.686	22.5
1,3-Dichlorobenzene	0.396	0.768	0.757	0.655	0.530	0.621	25.4
1,4-Dichlorobenzene	0.481	0.748	0.726	0.660	0.581	0.639	17.2
1,2-Dichlorobenzene	0.281	0.655	0.648	0.582	0.490	0.531	29.2

* Compounds with required minimum RRF and maximim %RSD values.
All other compounds must meet a minimim RRF of 0.010.

Data File: /chem/W.i/Wsvr.p/wobto14.b/ob005.d
Date : 10-JUL-2000 10:21
Client ID: ASTD005
Sample Info: ASTD005
Purge Volume: 200.0
Column phase: DB-1

Instrument: W.i

Operator: GMM
Column diameter: 0.35



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AIR TOXICS QUANTITATION REPORT

Data file : /chem/W.i/Wsvr.p/wcbto14.b/cb005.d
Lab Smp Id: ASTD005 Client Smp ID: ASTD005
Inj Date : 10-JUL-2000 10:21
Operator : GMM Inst ID: W.i
Smp Info : ASTD005
Misc Info :
Comment :
Method : /chem/W.i/Wsvr.p/wcbto14.b/ato14.m
Meth Date : 24-Jul-2000 14:59 cpc Quant Type: ISTD
Cal Date : 10-JUL-2000 10:21 Cal File: cb005.d
Als bottle: 2 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50
Processing Host: chemsvr4

Concentration Formula: Amt * DF * X* Uf/Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
X	200.00000	method volume factor
Uf	1.00000	ng unit correction factor
Vo	200.00000	Sample Volume purged (mL)

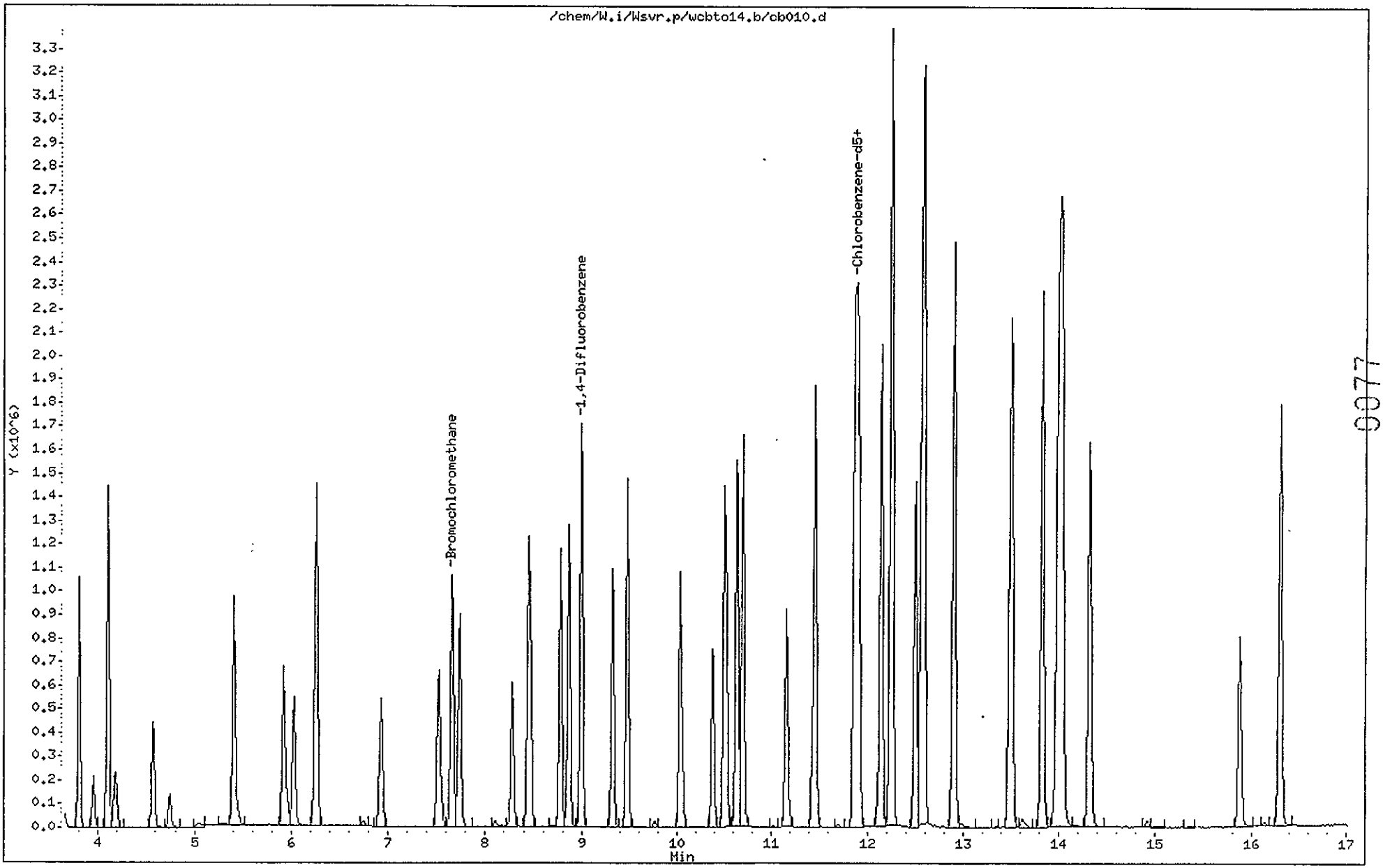
Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	AMOUNTS ON-COL (ppbv)
1	Dichlorodifluoromethane	85	3.839	3.798	(0.501)	502814	5.00000	5.3
2	Chloromethane	50	3.983	3.957	(0 520)	117983	5.00000	4.6
3	Dichlorotetrafluoroethane	85	4.142	4.101	(0.540)	500282	5.00000	5.2
4	Vinyl Chloride	62	4.214	4.188	(0 550)	135982	5.00000	4.9
5	Bromomethane	94	4.603	4 563	(0.600)	176579	5.00000	5.0
6	Chloroethane	64	4.776	4.750	(0.623)	80347	5.00000	5.0
7	Trichlorofluoromethane	101	5 436	5.406	(0 709)	497381	5.00000	5.5
8	1,1-Dichloroethene	96	5.951	5.922	(0.776)	158357	5.00000	5.0
9	Methylene Chloride	49	6.043	6.028	(0.788)	203008	5.00000	5.0
10	Freon TF	101	6.270	6 256	(0.818)	386050	5.00000	5.1
11	1,1-Dichloroethane	63	6.938	6.923	(0.905)	341141	5.00000	5.2
12	cis-1,2-Dichloroethene	61	7 530	7.530	(0.982)	257994	5 00000	5.2
* 13	Bromochloromethane	128	7.666	7.652	(1.000)	350963	10.0000	
14	Chloroform	83	7.742	7.743	(1.010)	438504	5.00000	5.2

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	ON-COL (ppbv)
	15 1,2-Dichloroethane	62	8.289	8.274	(1.081)	314293	5.00000	5.3
	16 1,1,1-Trichloroethane	97	8.471	8.456	(1.105)	425919	5.00000	5.3
	17 Benzene	78	8.789	8.775	(0.976)	570051	5.00000	5.3
	18 Carbon Tetrachloride	117	8.880	8.866	(0.986)	436510	5.00000	5.6
*	19 1,4-Difluorobenzene	114	9.002	9.002	(1.000)	1577241	10.0000	
	20 1,2-Dichloropropane	63	9.336	9.321	(1.037)	226026	5.00000	5.5
	21 Trichloroethene	95	9.472	9.473	(1.052)	274025	5.00000	5.5
	22 cis-1,3-Dichloropropene	75	10.034	10.034	(1.115)	341884	5.00000	5.3
	23 trans-1,3-Dichloropropene	75	10.383	10.368	(1.153)	259359	5.00000	5.1
	24 1,1,2-Trichloroethane	83	10.504	10.505	(1.167)	239296	5.00000	5.5
	25 Toluene	92	10.701	10.702	(0.900)	441845	5.00000	5.8
	26 1,2-Dibromoethane	107	11.157	11.157	(0.939)	409699	5.00000	5.8
	27 Tetrachloroethene	166	11.460	11.446	(0.964)	335865	5.00000	5.9
*	28 Chlorobenzene-d5	117	11.885	11.871	(1.000)	1529114	10.0000	
	29 Chlorobenzene	112	11.916	11.901	(1.003)	566425	5.00000	5.9
	30 Ethylbenzene	91	12.143	12.144	(1.022)	1029518	5.00000	6.0
	31 Xylene (m,p	106	12.249	12.250	(1.031)	735178	10.0000	12
	32 Styrene	104	12.507	12.508	(1.052)	495687	5.00000	6.0
M	33 Xylene (total)	106				1094204	5.00000	18
	34 1,1,2,2-Tetrachloroethane	83	12.568	12.569	(1.057)	665490	5.00000	6.3
	35 Xylene (o)	106	12.583	12.584	(1.059)	359026	5.00000	5.8
	36 1,3,5-Trimethylbenzene	105	13.509	13.494	(1.137)	861832	5.00000	6.4
	37 1,2,4-Trimethylbenzene	105	13.828	13.828	(1.163)	848665	5.00000	6.2
	38 1,3-Dichlorobenzene	146	13.979	13.980	(1.176)	587013	5.00000	6.2
	39 1,4-Dichlorobenzene	146	14.040	14.041	(1.181)	571607	5.00000	5.8
	40 1,2-Dichlorobenzene	146	14.328	14.329	(1.206)	500752	5.00000	6.2
	41 1,2,4-Trichlorobenzene	180	15.892	15.877	(1.337)	138524	5.00000	4.3
	42 Hexachlorobutadiene	225	16.301	16.302	(1.372)	207923	5.00000	6.0

Data File: /chem/W.i/Wsvr.p/wcbto14.b/cb010.d
Date : 10-JUL-2000 10:55
Client ID: ASTD010
Sample Info: ASTD010
Purge Volume: 200.0
Column phase: DB-1

Instrument: W.i
Operator: GMM
Column diameter: 0.35



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Data file : /chem/W.i/Wsvr.p/wcbto14.b/cb010.d
Lab Smp Id: ASTD010 Client Smp ID: ASTD010
Inj Date : 10-JUL-2000 10:55
Operator : GMM Inst ID: W.i
Smp Info : ASTD010
Misc Info :
Comment :
Method : /chem/W.i/Wsvr.p/wcbto14.b/ato14.m
Meth Date : 24-Jul-2000 14:59 cpc Quant Type: ISTD
Cal Date : 10-JUL-2000 10:55 Cal File: cb010.d
Als bottle: 3 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50
Processing Host: chemsvr4

Concentration Formula: Amt * DF * X* Uf/Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
X	200.00000	method volume factor
Uf	1.00000	ng unit correction factor
Vo	200.00000	Sample Volume purged (mL)

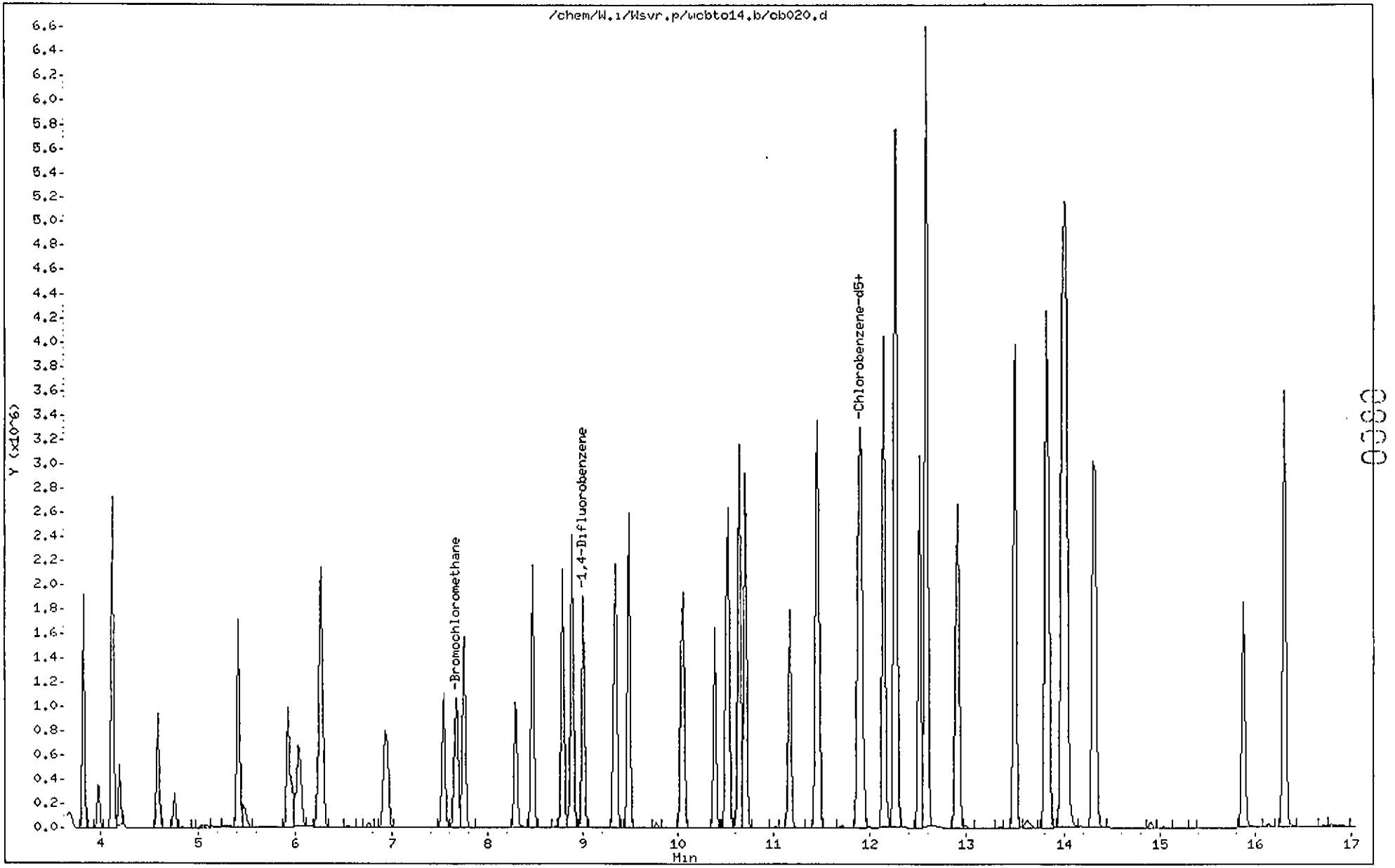
Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	ON-COL (ppbv
1	Dichlorodifluoromethane	85	3.798	3.798	(0.496)	907652	10.0000	10
2	Chloromethane	50	3.957	3.957	(0.517)	233985	10.0000	9.8
3	Dichlorotetrafluoroethane	85	4.101	4.101	(0.536)	907926	10.0000	9.9
4	Vinyl Chloride	62	4.188	4.188	(0.547)	261703	10.0000	10
5	Bromomethane	94	4.563	4.563	(0.596)	336226	10.0000	10
6	Chloroethane	64	4.750	4.750	(0.621)	148488	10.0000	9.8
7	Trichlorofluoromethane	101	5.406	5.406	(0.706)	859007	10.0000	10
8	1,1-Dichloroethene	96	5.922	5.922	(0.774)	299412	10.0000	10
9	Methylene Chloride	49	6.028	6.028	(0.788)	373295	10.0000	9.7
10	Freon TF	101	6.256	6.256	(0.818)	691766	10.0000	9.7
11	1,1-Dichloroethane	63	6.923	6.923	(0.905)	624587	10.0000	10
12	cis-1,2-Dichloroethene	61	7.530	7.530	(0.984)	476113	10.0000	10
* 13	Bromochloromethane	128	7.652	7.652	(1.000)	330271	10.0000	
14	Chloroform	83	7.743	7.743	1.012)	794266	10.0000	10

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	AMOUNTS ON-COL (ppbv)
	15 1,2-Dichloroethane	62	8 274	8 274	(1.081)	558139	10.0000	10
	16 1,1,1-Trichloroethane	97	8.456	8 456	(1.105)	767575	10.0000	10
	17 Benzene	78	8 775	8 775	(0.975)	1048110	10.0000	10
	18 Carbon Tetrachloride	117	8 866	8 866	(0.985)	782700	10.0000	10
*	19 1,4-Difluorobenzene	114	9.002	9 002	(1.000)	1527537	10.0000	
	20 1,2-Dichloropropane	63	9.321	9 321	(1.035)	408567	10.0000	10
	21 Trichloroethene	95	9.473	9.473	(1.052)	488262	10.0000	10
	22 cis-1,3-Dichloropropene	75	10.034	10.034	(1.115)	648671	10.0000	10
	23 trans-1,3-Dichloropropene	75	10.368	10 368	(1.152)	507250	10.0000	10
	24 1,1,2-Trichloroethane	83	10.505	10.505	(1.167)	431024	10.0000	10
	25 Toluene	92	10.702	10.702	(0.902)	825501	10.0000	11
	26 1,2-Dibromoethane	107	11.157	11.157	(0.940)	761610	10.0000	11
	27 Tetrachloroethene	166	11.446	11.446	(0.964)	616732	10.0000	11
*	28 Chlorobenzene-d5	117	11.871	11.871	(1.000)	1495244	10.0000	
	29 Chlorobenzene	112	11.901	11.901	(1.003)	1071993	10.0000	11
	30 Ethylbenzene	91	12.144	12.144	(1.023)	1928811	10.0000	12
	31 Xylene (m,p)	106	12.250	12.250	(1.032)	1376255	20.0000	22
	32 Styrene	104	12.508	12.508	(1.054)	954421	10.0000	12
M	33 Xylene (total)	106				2060832	10.0000	34
	34 1,1,2,2-Tetrachloroethane	83	12.569	12.569	(1.059)	1200944	10.0000	12
	35 Xylene (o)	106	12.584	12.584	(1.060)	684577	10.0000	11
	36 1,3,5-Trimethylbenzene	105	13.494	13.494	(1.137)	1599775	10.0000	12
	37 1,2,4-Trimethylbenzene	105	13.828	13.828	(1.165)	1594727	10.0000	12
	38 1,3-Dichlorobenzene	146	13.980	13.980	(1.178)	1131644	10.0000	12
	39 1,4-Dichlorobenzene	146	14.041	14.041	(1.183)	1084890	10.0000	11
	40 1,2-Dichlorobenzene	146	14.329	14.329	(1.207)	968831	10.0000	12
	41 1,2,4-Trichlorobenzene	180	15.877	15.877	(1.337)	341319	10.0000	11
	42 Hexachlorobutadiene	225	16.302	16.302	(1.373)	423917	10.0000	12

Data File: /chem/W.1/Wsvr.p/wcbto14.b/cb020.d
Date : 10-JUL-2000 11:31
Client ID: ASTD020
Sample Info: ASTD020
Purge Volume: 200.0
Column phase: DB-1

Instrument: W.i
Operator: CHM
Column diameter: 0.35



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Data file : /chem/W.i/Wsvr.p/wcbto14.b/cb020.d
Lab Smp Id: ASTD020 Client Smp ID: ASTD020
Inj Date : 10-JUL-2000 11:31
Operator : GMM Inst ID: W.i
Smp Info : ASTD020
Misc Info :
Comment :
Method : /chem/W.i/Wsvr.p/wcbto14.b/ato14.m
Meth Date : 24-Jul-2000 14:59 cpc Quant Type: ISTD
Cal Date : 10-JUL-2000 11:31 Cal File: cb020.d
Als bottle: 4 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50
Processing Host: chemsvr4

Concentration Formula: Amt * DF * X* Uf/Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
X	200.00000	method volume factor
Uf	1.00000	ng unit correction factor
Vo	200.00000	Sample Volume purged (mL)

Cpnd Variable Local Compound Variable

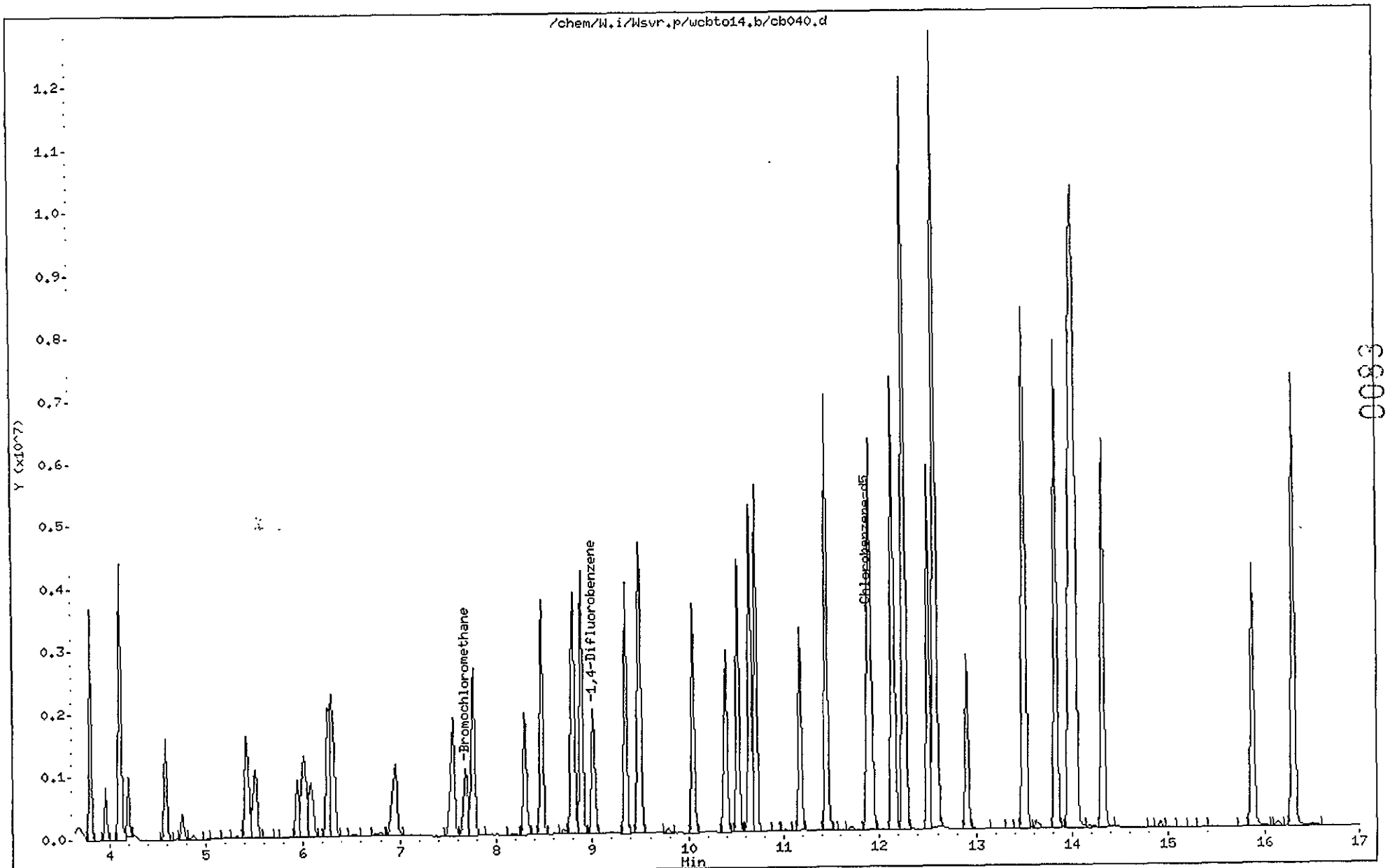
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	AMOUNTS ON-COL (ppbv)
1	Dichlorodifluoromethane	85	3.824	3.798	(0.499)	1626964	20.0000	18
2	Chloromethane	50	3.968	3.957	(0.518)	431468	20.0000	18
3	Dichlorotetrafluoroethane	85	4.127	4.101	(0.538)	1640180	20.0000	18
4	Vinyl Chloride	62	4.199	4.188	(0.548)	476557	20.0000	18
5	Bromomethane	94	4.588	4.563	(0.598)	596264	20.0000	18
6	Chloroethane	64	4.761	4.750	(0.621)	271565	20.0000	18
7	Trichlorofluoromethane	101	5.420	5.406	(0.707)	1432430	20.0000	17
8	1,1-Dichloroethene	96	5.936	5.922	(0.774)	551870	20.0000	18
9	Methylene Chloride	49	6 027	6.028	(0.786)	633288	20.0000	16
10	Freon TF	101	6 270	6.256	(0.818)	1279237	20.0000	18
11	1,1-Dichloroethane	63	6 938	6.923	(0 905)	1151921	20.0000	18
12	cis-1,2-Dichloroethene	61	7 545	7.530	(0 984)	874827	20.0000	18
* 13	Bromochloromethane	128	7 666	7 652	(1 000)	332637	10.0000	
14	Chloroform	83	7 757	7.743	(1 012)	1453252	20.0000	18

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv,	ON-COL ppbv)
	15 1,2-Dichloroethane	62	8.289	8.274	(1 081)	1032182	20.0000	18
	16 1,1,1-Trichloroethane	97	8.471	8.456	(1.105,	1409719	20 0000	18
	17 Benzene	78	8.789	8.775	(0.976'	1973502	20.0000	19
	18 Carbon Tetrachloride	117	8.880	8.866	(0.986)	1440836	20.0000	19
*	19 1,4-Difluorobenzene	114	9.002	9.002	1 000)	1546872	10.0000	
	20 1,2-Dichloropropane	63	9.336	9.321	(1 037.	759496	20.0000	19
	21 Trichloroethene	95	9.488	9.473	(1 054)	921997	20 0000	19
	22 cis-1,3-Dichloropropene	75	10.049	10.034	(1.116.	1265836	20.0000	20
	23 trans-1,3-Dichloropropene	75	10.383	10.368	(1.153)	995985	20.0000	20
	24 1,1,2-Trichloroethane	83	10.519	10.505	(1.169)	789055	20.0000	19
	25 Toluene	92	10.702	10.702	(0.900)	1563358	20.0000	20
	26 1,2-Dibromoethane	107	11.172	11 157	(0.940)	1445172	20.0000	20
	27 Tetrachloroethene	166	11.460	11.446	(0.964,	1179767	20.0000	20
*	28 Chlorobenzene-d5	117	11.885	11.871	(1.000)	1598812	10.0000	
	29 Chlorobenzene	112	11.916	11.901	(1.003)	1988806	20.0000	19
	30 Ethylbenzene	91	12.143	12.144	(1.022)	3552793	20.0000	20
	31 Xylene (m,p)	106	12.265	12.250	(1 032,	2641744	40.0000	40
	32 Styrene	104	12.507	12.508	(1.052.	1862463	20.0000	22
M	33 Xylene (total)	106				3951883	20.0000	61
	34 1,1,2,2-Tetrachloroethane	83	12.568	12.569	(1.057)	2200595	20.0000	20
	35 Xylene (o)	106	12.583	12.584	(1.059)	1310139	20.0000	20
	36 1,3,5-Trimethylbenzene	105	13.509	13 494	(1.137)	3019101	20 0000	21
	37 1,2,4-Trimethylbenzene	105	13 828	13.828	(1.163)	3003461	20.0000	21
	38 1,3-Dichlorobenzene	146	13.980	13.980	(1.176)	2095135	20.0000	21
	39 1,4-Dichlorobenzene	146	14.040	14.041	(1.181)	2110122	20.0000	21
	40 1,2-Dichlorobenzene	146	14.329	14.329	(1.206,	1862416	20.0000	22
	41 1,2,4-Trichlorobenzene	180	15.876	15.877	(1.336)	790175	20.0000	23
	42 Hexachlorobutadiene	225	16.301	16 302	(1.372)	851163	20.0000	23

Data File: /chem/W.i/Wsvr.p/wcbto14.b/cb040.d
Date : 10-JUL-2000 12:08
Client ID: ASTD040
Sample Info: ASTD040
Purge Volume: 200.0
Column phase: DB-1

Instrument: W.i

Operator: GMM
Column diameter: 0.35



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AIR TOXICS QUANTITATION REPORT

Data file : /chem/W.i/Wsvr.p/wcbto14.b/cb040.d
Lab Smp Id: ASTD040 Client Smp ID: ASTD040
Inj Date : 10-JUL-2000 12:08
Operator : GMM Inst ID: W.i
Smp Info : ASTD040
Misc Info :
Comment :
Method : /chem/W.i/Wsvr.p/wcbto14.b/ato14.m
Meth Date : 24-Jul-2000 14:59 cpc Quant Type: ISTD
Cal Date : 10-JUL-2000 12:08 Cal File: cb040.d
Als bottle: 5 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50
Processing Host: chemsvr4

Concentration Formula: Amt * DF * X* Uf/Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
X	200.00000	method volume factor
Uf	1.00000	ng unit correction factor
Vo	200.00000	Sample Volume purged (mL)

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	ON-COL (ppbv)	
1	Dichlorodifluoromethane	85	3.809	3.798	(0.496)	2908407	40.0000	32	
2	Chloromethane	50	3.968	3.957	(0.517)	840506	40.0000	34	
3	Dichlorotetrafluoroethane	85	4.127	4.101	(0.537)	2991090	40.0000	32	
4	Vinyl Chloride	62	4.199	4.188	(0.547)	944808	40.0000	36	
5	Bromomethane	94	4.588	4.563	(0.597)	1154174	40.0000	34	
6	Chloroethane	64	4.761	4.750	(0.620)	583101	40.0000	38	M
7	Trichlorofluoromethane	101	5.420	5.406	(0.706)	3008932	40.0000	35	M
8	1,1-Dichloroethene	96	5.997	5.922	(0.781)	1071111	40.0000	36	M
9	Methylene Chloride	49	6.088	6.028	(0.793)	1241632	40.0000	32	
10	Freon TF	101	6.300	6.256	(0.820)	2459550	40.0000	34	M
11	1,1-Dichloroethane	63	6.968	6.923	(0.907)	2067440	40.0000	33	
12	cis-1,2-Dichloroethene	61	7.560	7.530	(0.984)	1654016	40.0000	35	
* 13	Bromochloromethane	128	7.681	7.652	(1.000)	335236	10.0000		
14	Chloroform	83	7.772	7.743	(1.012)	2697170	40.0000	34	

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	AMOUNTS ON-COL (ppbv)
15	1,2-Dichloroethane	62	8 304	8.274	(1.081)	1926390	40.0000	34
16	1,1,1-Trichloroethane	97	8 486	8.456	(1.105)	2588013	40.0000	34
17	Benzene	78	8 804	8.775	(0.976)	3737046	40.0000	34
18	Carbon Tetrachloride	117	8 895	8.866	(0.987)	2660863	40.0000	33
* 19	1,4-Difluorobenzene	114	9.017	9.002	(1.000)	1624728	10.0000	
20	1,2-Dichloropropane	63	9 351	9.321	(1.037)	1404698	40.0000	33
21	Trichloroethene	95	9 487	9.473	(1.052)	1685281	40.0000	33
22	cis-1,3-Dichloropropene	75	10.049	10.034	(1.114)	2379268	40.0000	36
23	trans-1,3-Dichloropropene	75	10.398	10.368	(1.153)	1934419	40.0000	37
24	1,1,2-Trichloroethane	83	10.519	10.505	(1.167)	1458832	40.0000	33
25	Toluene	92	10.716	10.702	(0.902)	2998386	40.0000	32
26	1,2-Dibromoethane	107	11.172	11.157	(0.940)	2717906	40.0000	32
27	Tetrachloroethene	166	11.460	11.446	(0.964)	2233859	40.0000	32
* 28	Chlorobenzene-d5	117	11.885	11.871	(1.000)	1839051	10.0000	
29	Chlorobenzene	112	11.915	11.901	(1.003)	3738760	40.0000	31
30	Ethylbenzene	91	12 143	12.144	(1.022)	6616083	40.0000	32
31	Xylene (m,p)	106	12.264	12.250	(1.032)	5192826	80.0000	69
32	Styrene	104	12.507	12.508	(1.052)	3744331	40.0000	38
M 33	Xylene (total)	106				7762682	40.0000	100
34	1,1,2,2-Tetrachloroethane	83	12.583	12.569	(1.059)	4101773	40.0000	32
35	Xylene (o)	106	12.598	12.584	(1.060)	2569856	40.0000	35
36	1,3,5-Trimethylbenzene	105	13.509	13.494	(1.137)	5712304	40.0000	35
37	1,2,4-Trimethylbenzene	105	13.827	13.828	(1.163)	5761755	40.0000	35
38	1,3-Dichlorobenzene	146	13.994	13.980	(1.177)	3898564	40.0000	34
39	1,4-Dichlorobenzene	146	14.040	14.041	(1.181)	4271203	40.0000	36
40	1,2-Dichlorobenzene	146	14.328	14.329	(1.206)	3603688	40.0000	37
41	1,2,4-Trichlorobenzene	180	15.876	15.877	(1.336)	1801169	40.0000	46(A)
42	Hexachlorobutadiene	225	16.301	16.302	(1.372)	1724558	40.0000	41(A)

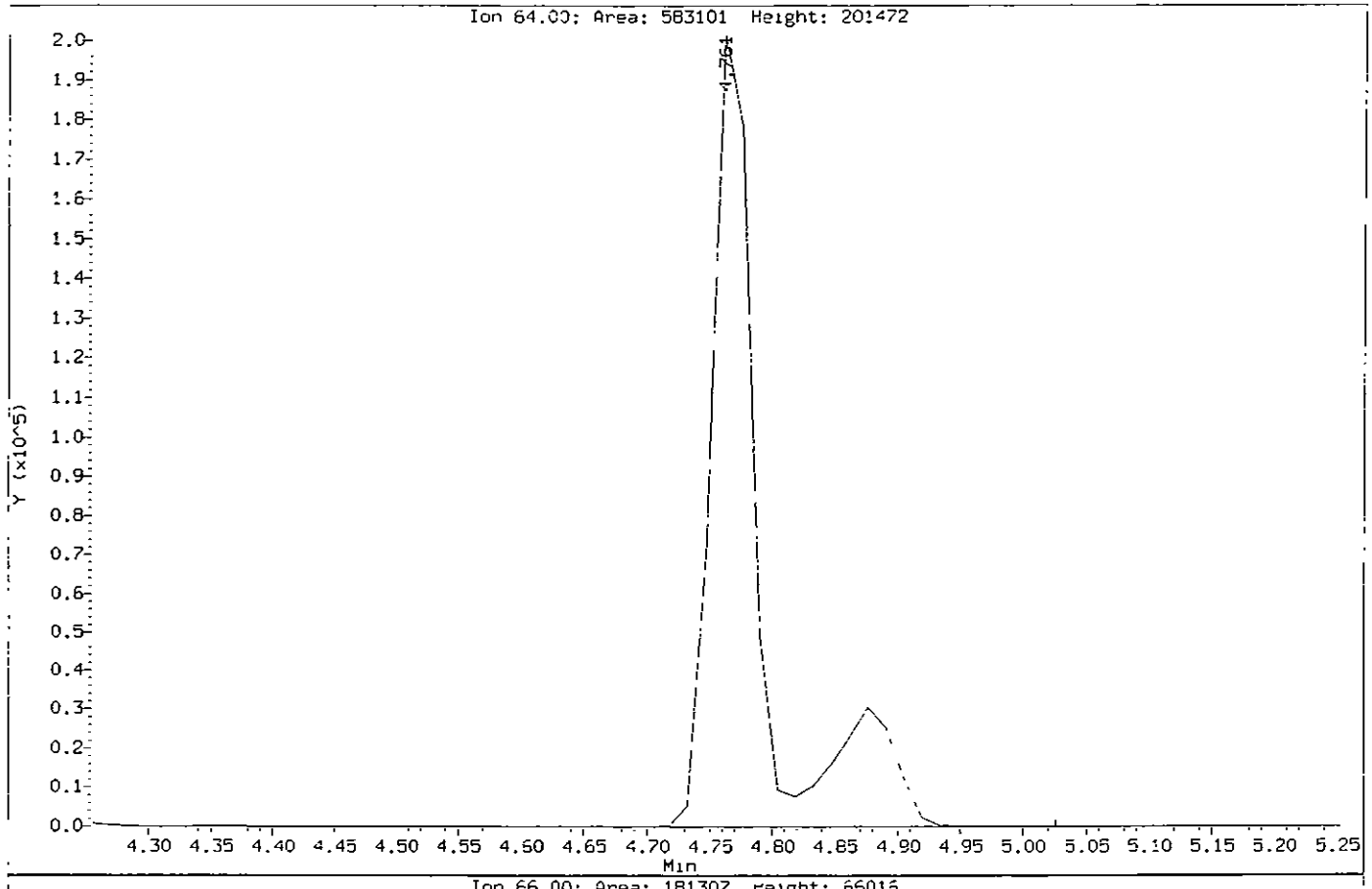
QC Flag Legend

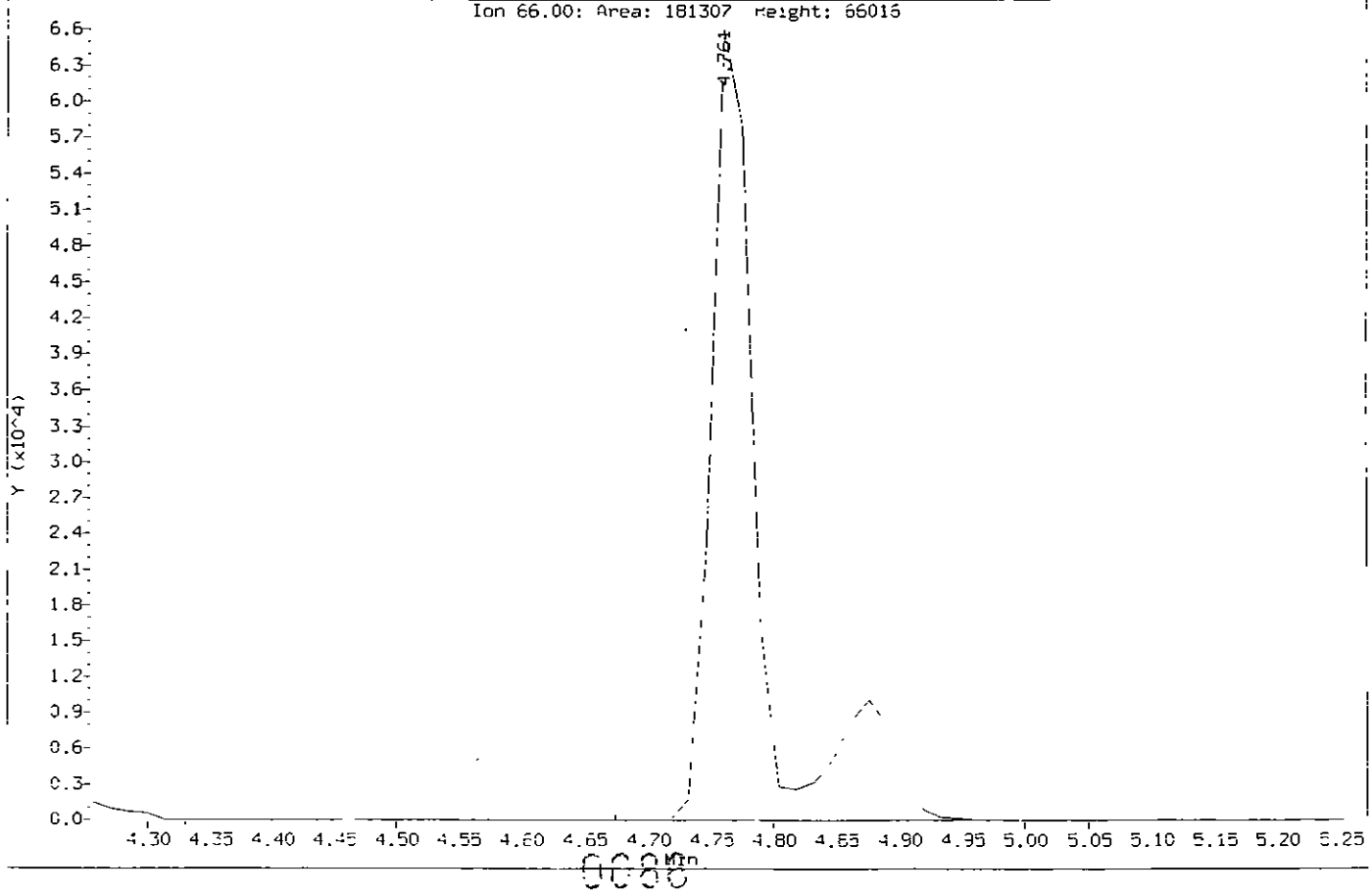
A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.

CRL 7/24/00

Data File: /chem/W.i/ksvr.p/wcbto14.b/cs040.d
Injection Date: 10-JUL-2000 12:09
Instrument: W.i
Client Sample ID: AST0040

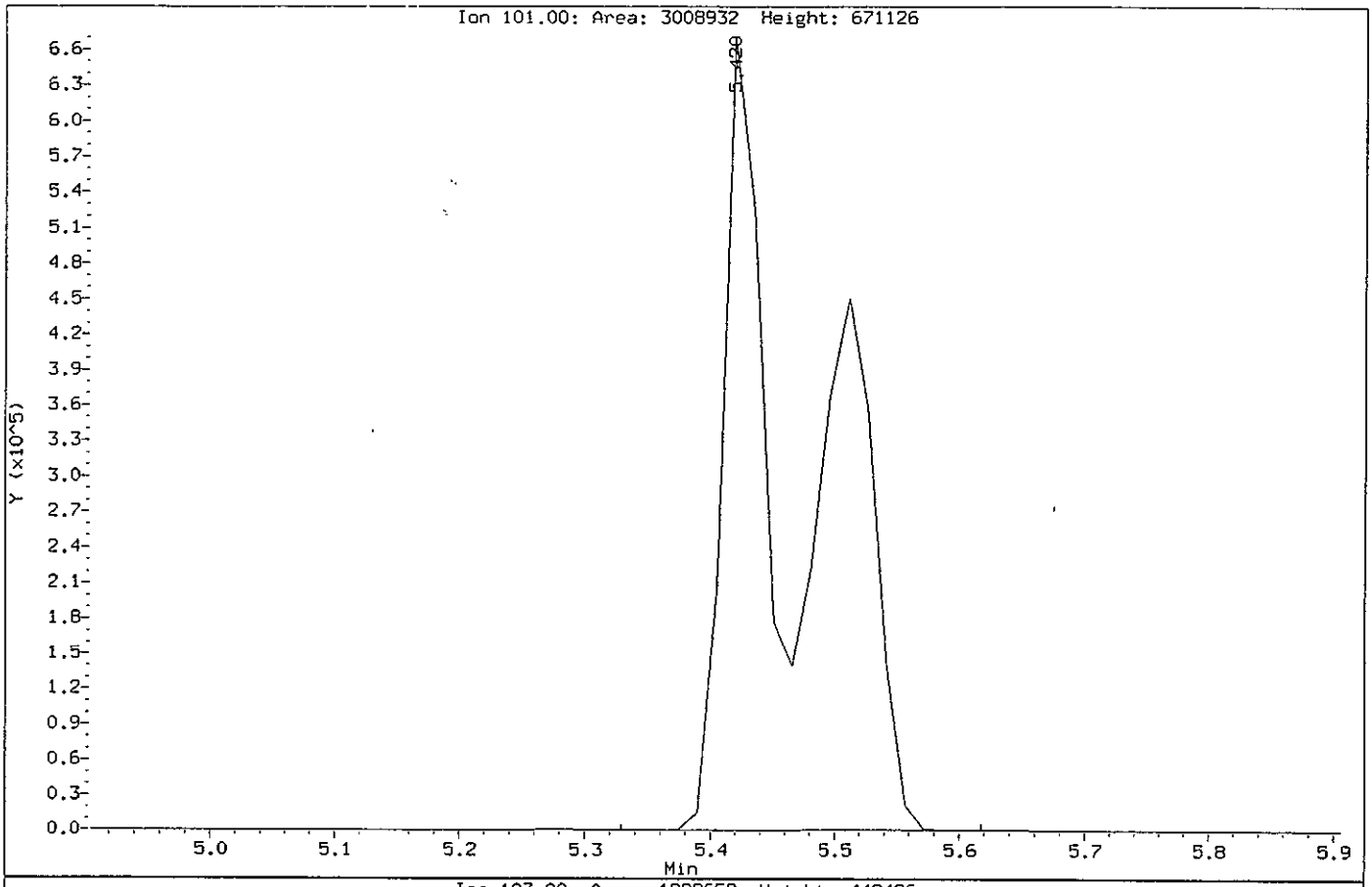
Compound: Chloroethane
CAS Number: 75-00-3

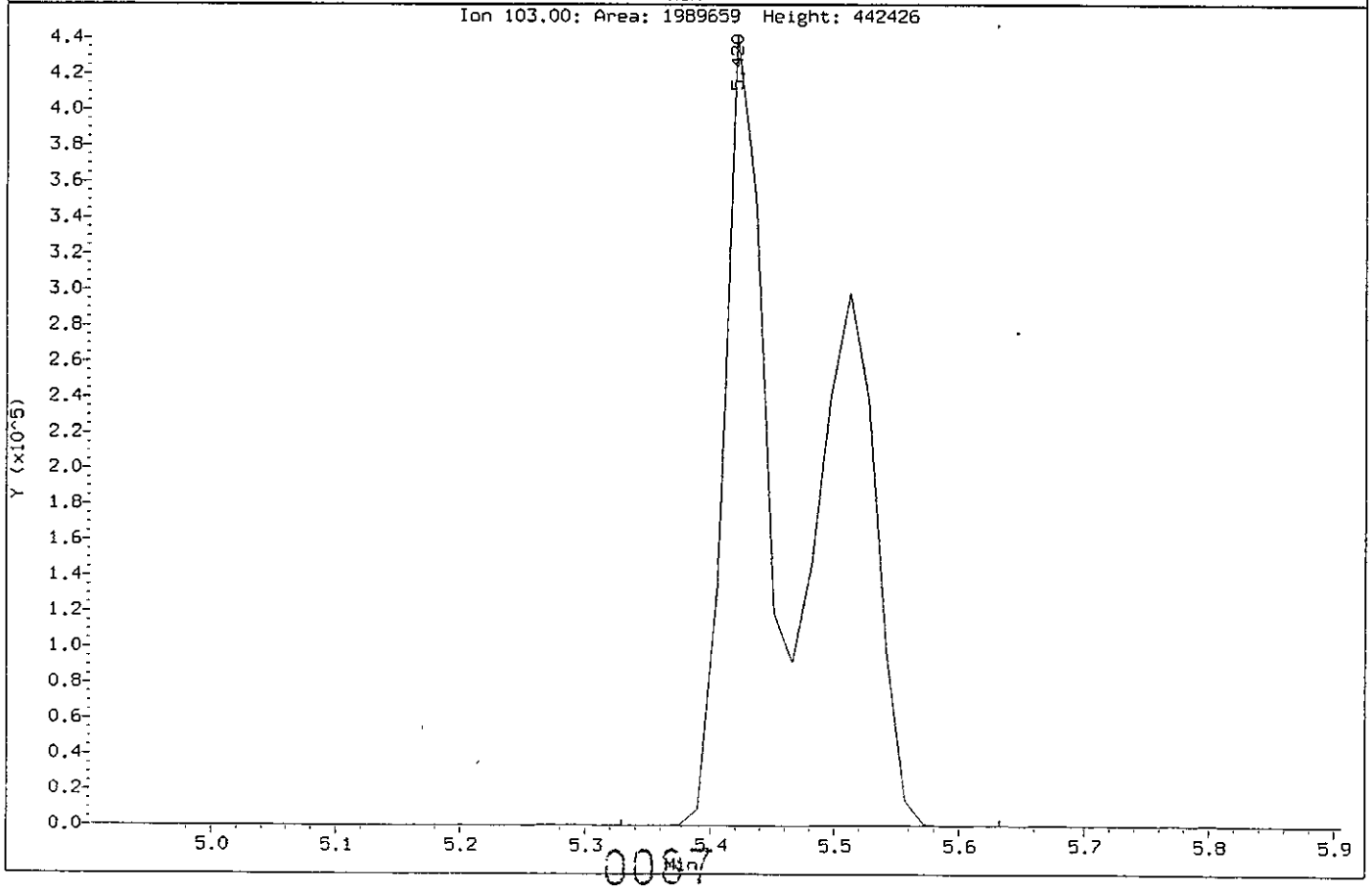




Data File: /chem/W.i/Wsvr.p/wcbto14.b/cb040.d
Injection Date: 10-JUL-2000 12:08
Instrument: W.i
Client Sample ID: ASTD040

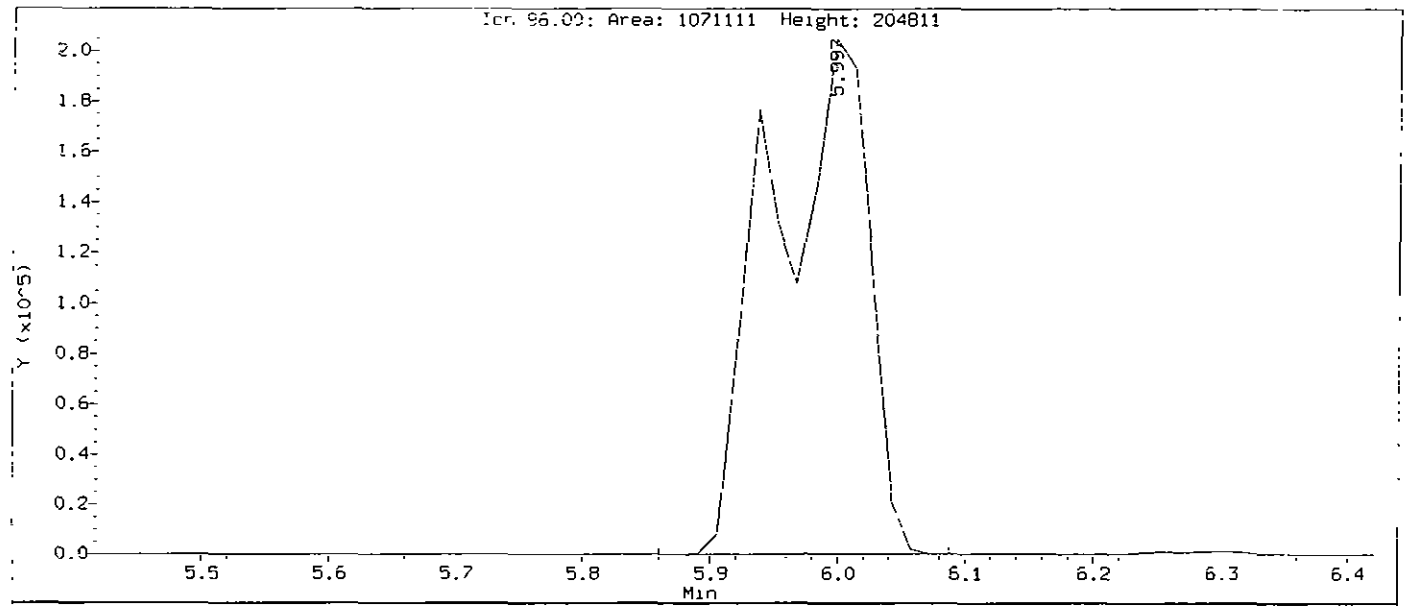
Compound: Trichlorofluoromethane
CAS Number: 75-69-4

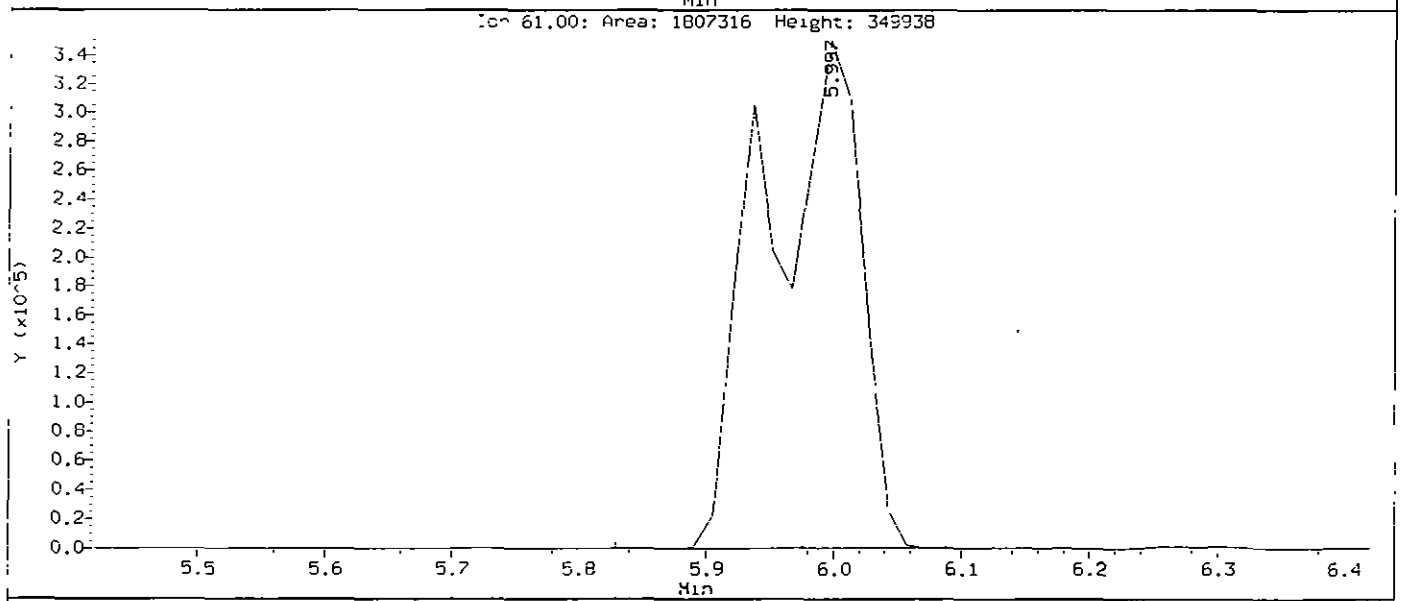


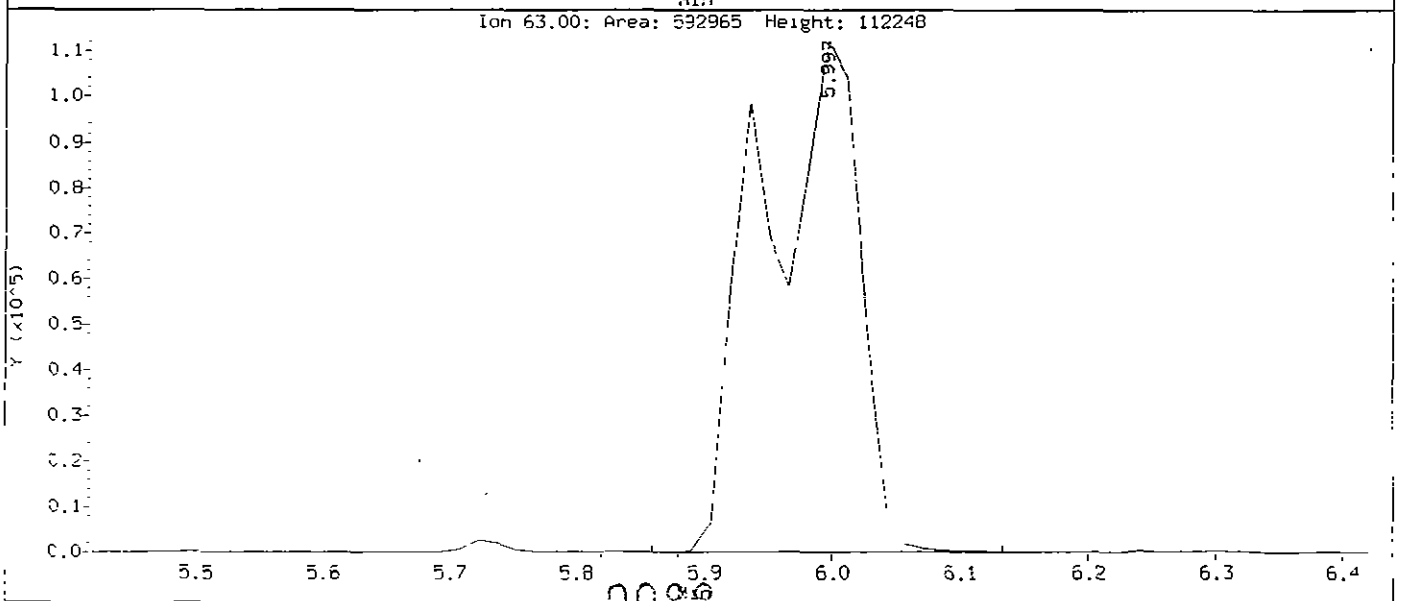


Data File: /chem/W.1/Wsvr.b/wcbto14.b/cb040.d
Injection Date: 10-JU_-2000 12:08
Instrument: J.1
Client Sample ID: ASTD040

Compound: 1,1-Dichloroethene
CAS Number: 75-35-4

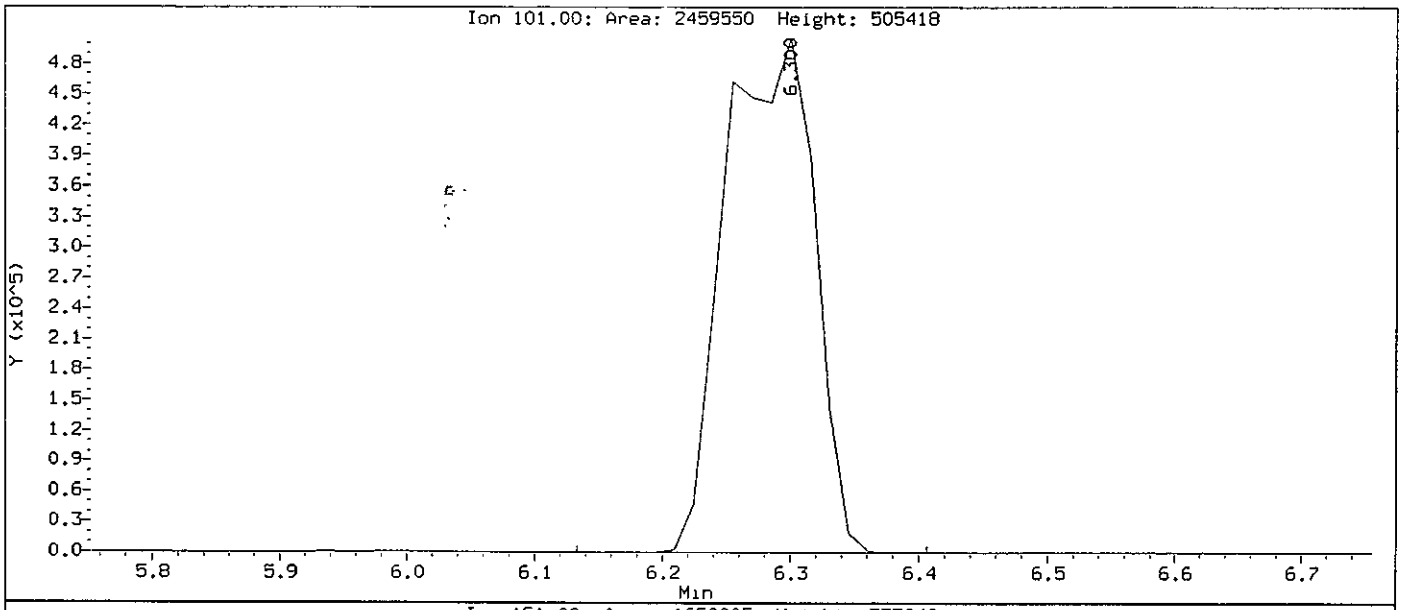


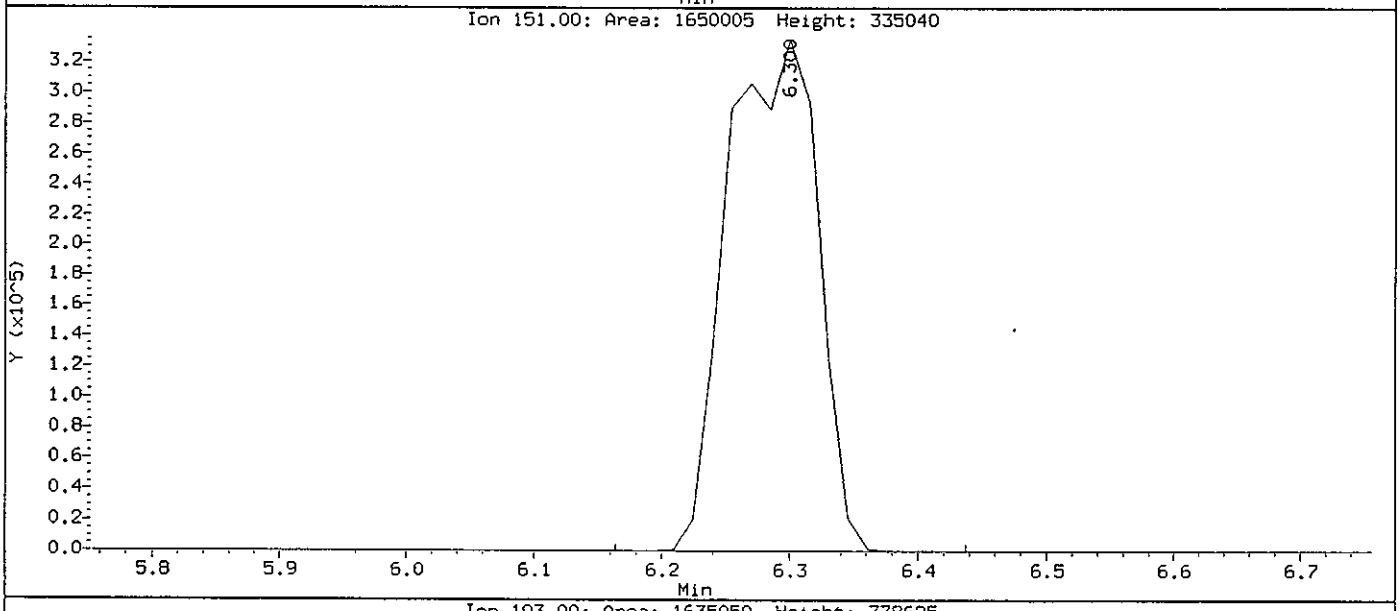


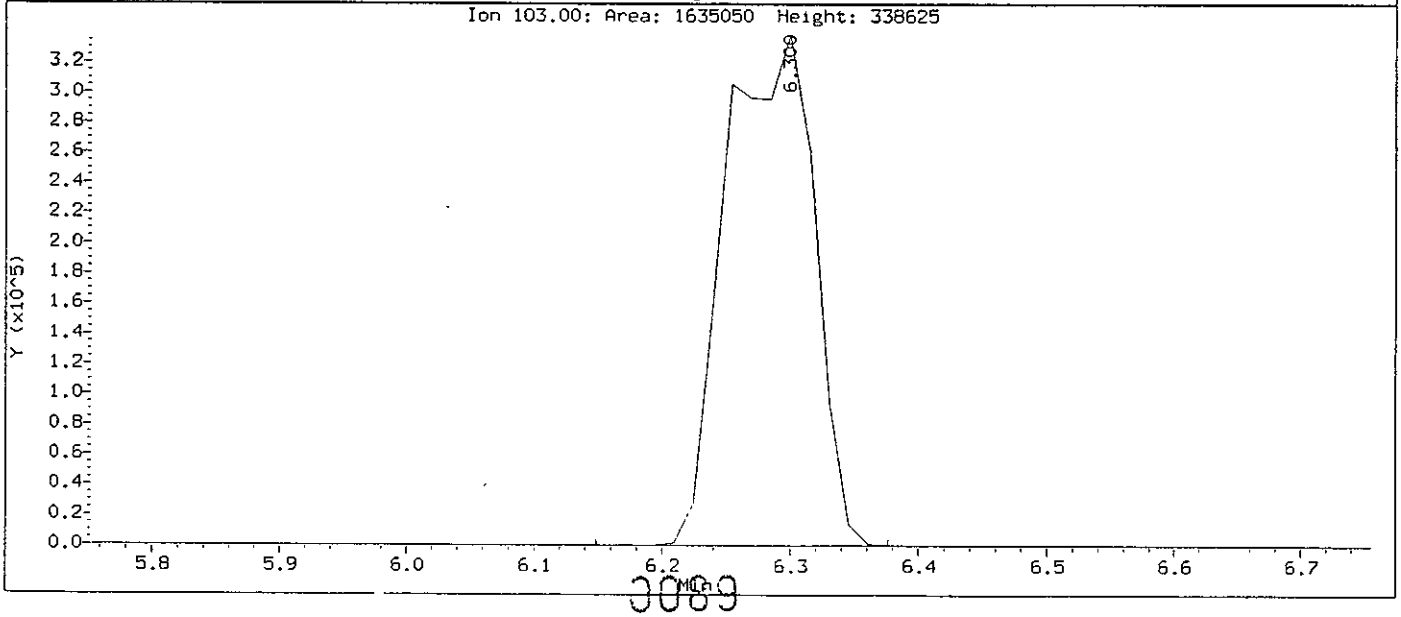


Data File: /chem/W.i/Wsvr.p/wcbto14.b/cb040.d
Injection Date: 10-JUL-2000 12:08
Instrument: W.i
Client Sample ID: ASTD040

Compound: Freon TF
CAS Number: 76-13-1

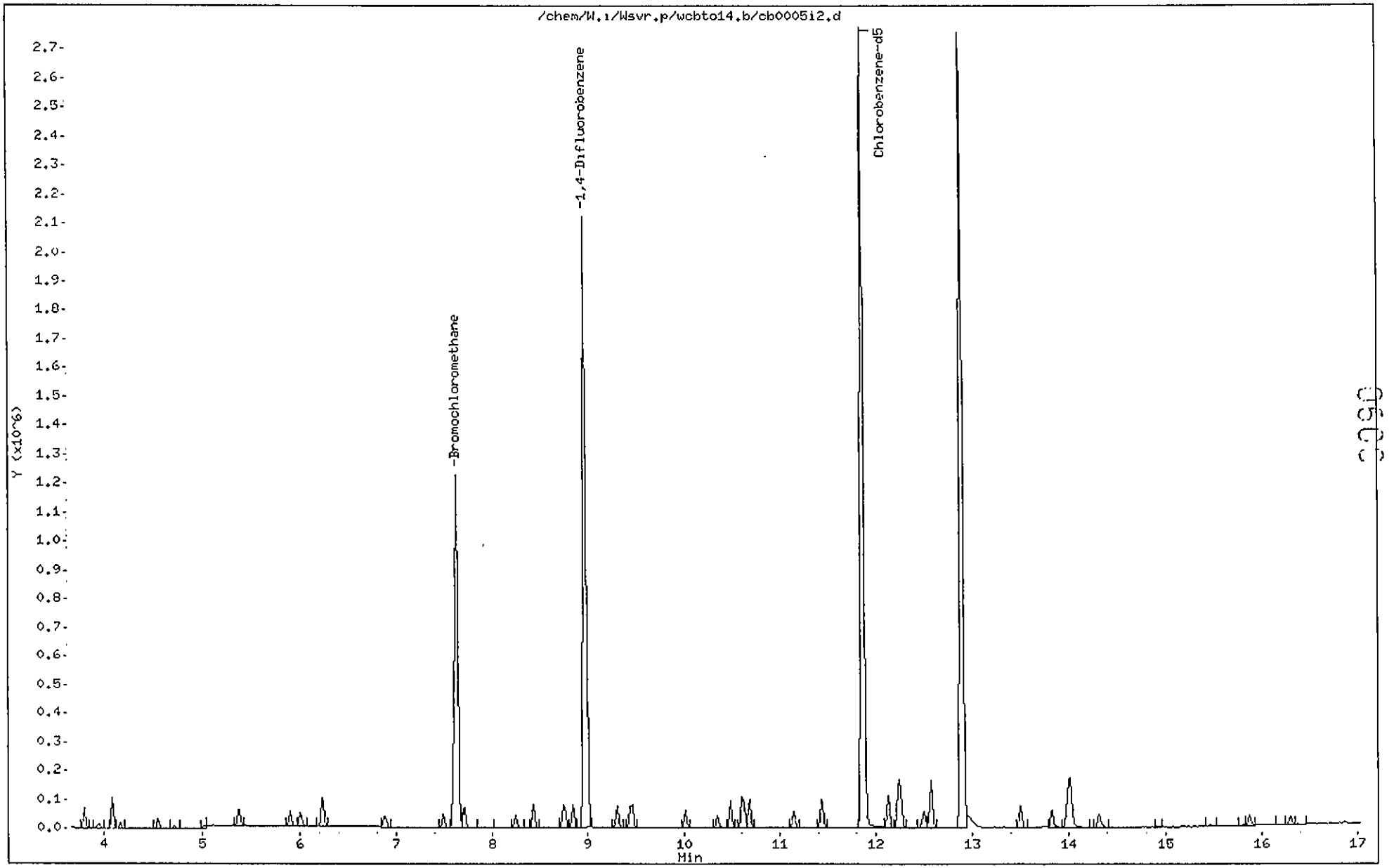






Data File: /chem/W.1/Wsvr.p/wcbto14.b/cb0005i2.d
Date : 10-JUL-2000 13:37
Client ID: ASTD0005
Sample Info: ASTD0005
Purge Volume: 200.0
Column phase: DB-1

Instrument: W.1
Operator: GMM
Column diameter: 0.35



STL Burlington

AIR TOXICS QUANTITATION REPORT

Data file : /chem/W.i/Wsvr.p/wcbto14.b/cb0005i2.d
Lab Smp Id: ASTD0005 Client Smp ID: ASTD0005
Inj Date : 10-JUL-2000 13:37
Operator : GMM Inst ID: W.i
Smp Info : ASTD0005
Misc Info :
Comment :
Method : /chem/W.i/Wsvr.p/wcbto14.b/ato14.m
Meth Date : 24-Jul-2000 14:59 cpc Quant Type: ISTD
Cal Date : 10-JUL-2000 13:37 Cal File: cb0005i2.d
Als bottle: 1 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50
Processing Host: chemsvr4

Concentration Formula: Amt * DF * X* Uf/Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
X	200.00000	method volume factor
Uf	1.00000	ng unit correction factor
Vo	200.00000	Sample Volume purged (mL)

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	AMOUNTS ON-COL (ppbv)
1	Dichlorodifluoromethane	85	3.795	3.798	(0.498)	60504	0.50000	0.61
2	Chloromethane	50	3.954	3.957	(0.519)	17602	0.50000	0.67
3	Dichlorotetrafluoroethane	85	4.083	4.101	(0.536)	64145	0.50000	0 64
4	Vinyl Chloride	62	4.170	4.188	(0.547)	16881	0.50000	0.59
5	Bromomethane	94	4.545	4.563	(0.596)	23130	0.50000	0.63
6	Chloroethane	64	4.718	4.750	(0.619)	9811	0.50000	0.59
7	Trichlorofluoromethane	101	5.390	5.406	(0.707)	56514	0.50000	0.60
8	1,1-Dichloroethene	96	5.906	5.922	(0.775)	19099	0.50000	0.58
9	Methylene Chloride	49	5.997	6.028	(0.787)	30468	0.50000	0.72
10	Freon TF	101	6.225	6.256	(0.817)	49950	0.50000	0.64
11	1,1-Dichloroethane	63	6.892	6 923	(0.904)	41935	0.50000	0.61
12	cis-1,2-Dichloroethene	61	7.484	7 530	(0.982)	29341	0.50000	0.57
* 13	Bromochloromethane	128	7.621	7.652	(1 000)	363665	10.0000	
14	Chloroform	83	7.712	7 743	(1 012)	52651	0.50000	0.60

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	ON-COL (ppbv)
	15 1 2-Dichloroethane	62	8.243	8 274	(1.082)	35338	0.50000	0.58
	16 1,1,1-Trichloroethane	97	8.425	8 456	(1.106)	48552	0.50000	0.58
	17 Benzene	78	8.744	8 775	(0.975)	71781	0.50000	0.58
	18 Carbon Tetrachloride	117	8.835	8.866	(0.985)	48686	0.50000	0.55
*	19 1,4-Difluorobenzene	114	8.971	9.002	(1.000)	1792767	10.0000	
	20 1,2-Dichloropropane	63	9.305	9.321	(1.037)	26381	0.50000	0 56
	21 Trichloroethene	95	9.442	9.473	(1.052)	31408	0.50000	0.56
	22 cis-1,3-Dichloropropene	75	10.018	10.034	(1.117	37494	0.50000	0.51
	24 1,1,2-Trichloroethane	83	10.489	10.505	(1.169)	27182	0.50000	0.55
*	28 Chlorobenzene-d5	117	11.870	11.871	(1.000)	1997368	10.0000	
	31 Xylene m,p	106	12.249	12 250	(1.032)	68656	1.00000	0.84
M	33 Xylene total)	106				100304	0.50000	1.2

STL Burlington

INITIAL CALIBRATION DATA

Start Cal Date : 10-JUL-2000 10:21
End Cal Date : 10-JUL-2000 13:37
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/W.i/Wsvr.p/wcbto14.b/ato14.m
Cal Date : 07-Aug-2000 14:52 cpc
Curve Type : Average

Calibration File Names:
Level 1: /chem/W.i/Wsvr.p/wcbto14.b/cb0005i2.d
Level 2: /chem/W.i/Wsvr.p/wcbto14.b/cb005.d
Level 3: /chem/W.i/Wsvr.p/wcbto14.b/cb010.d
Level 4: /chem/W.i/Wsvr.p/wcbto14.b/cb020.d
Level 5: /chem/W.i/Wsvr.p/wcbto14.b/cb040.d

Compound	0.50000 Level 1	5.000 Level 2	10.000 Level 3	20.000 Level 4	40.000 Level 5	___ RRF	% RSD
1 Dichlorodifluoromethane	3.32746	2.86534	2.74820	2.44555	2.16893	2.71110	16.179
2 Chloromethane	0.96803	0.67234	0.70846	0.64856	0.62680	0.72484	19.216
3 Dichlorotetrafluoroethane	3.52770	2.85091	2.74903	2.46542	2.23059	2.76473	17.763
4 Vinyl Chloride	0.92838	0.77491	0.79239	0.71633	0.70458	0.78332	11.397
5 Bromomethane	1.27205	1.00625	1.01803	0.89627	0.86072	1.01066	15.952
6 Chloroethane	0.53956	0.45787	0.44959	0.40820	0.43484	0.45801	10.773
7 Trichlorofluoromethane	3.10803	2.83438	2.60092	2.15314	2.24389	2.58807	15.441
8 1,1-Dichloroethene	1.05036	0.90241	0.90656	0.82954	0.79877	0.89753	10.837
9 Methylene Chloride	1.67561	1.15686	1.13027	0.95192	0.92594	1.16812	25.842
10 Freon TF	2.74703	2.19995	2.09454	1.92287	1.83419	2.15972	16.580
11 1,1-Dichloroethane	2.30624	1.94403	1.89113	1.73150	1.54178	1.88294	15.075
12 cis-1,2-Dichloroethene	1.61363	1.47021	1.44158	1.31499	1.23347	1.41478	10.374
14 Chloroform	2.89558	2.49886	2.40489	2.18444	2.01140	2.39903	14.026
15 1,2-Dichloroethane	1.94344	1.79103	1.68994	1.55151	1.43659	1.68250	11.796
16 1,1,1-Trichloroethane	2.67015	2.42714	2.32408	2.11901	1.92999	2.29407	12.392
17 Benzene	0.80078	0.72285	0.68614	0.63790	0.57503	0.68454	12.471
18 Carbon Tetrachloride	0.54314	0.55605	0.51239	0.46573	0.40943	0.49735	12.105
20 1,2-Dichloropropane	0.29430	0.28661	0.26747	0.24549	0.21614	0.26200	12.151
21 Trichloroethene	0.35039	0.34747	0.31964	0.29802	0.25932	0.31497	12.003
22 cis-1,3-Dichloropropene	0.41828	0.43352	0.42465	0.40916	0.36610	0.41034	6.406
23 trans-1,3-Dichloropropene	0.31767	0.32888	0.33207	0.32194	0.29765	0.31964	4.233
24 1,1,2-Trichloroethane	0.30324	0.30344	0.28217	0.25505	0.22447	0.27367	12.391
25 Toluene	0.47900	0.57791	0.55208	0.48891	0.40760	0.50110	13.342
26 1,2-Dibromoethane	0.43780	0.53613	0.50935	0.45195	0.36947	0.46094	14.135
27 Tetrachloroethene	0.34770	0.43929	0.41246	0.36895	0.30367	0.37441	14.262
29 Chlorobenzene	0.62421	0.76701	0.71694	0.62196	0.50825	0.64767	15.380

STL Burlington

INITIAL CALIBRATION DATA

Start Cal Date : 10-JUL-2000 10:21
End Cal Date : 10-JUL-2000 13:37
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/W.i/Wsvr.p/wcbto14.b/ato14.m
Cal Date : 07-Aug-2000 14:52 cpc
Curve Type : Average

	Compound	0.50000 Level 1	5.000 Level 2	10.000 Level 3	20.000 Level 4	40.000 Level 5	RRF	% RSD	
	30 Ethylbenzene	0.95208	1.34655	1.28996	1.11107	0.89939	1.11981	17.701	
	31 Xylene (m,p)	0.34373	0.48079	0.46021	0.41308	0.35296	0.41015	15.023	
	32 Styrene	0.33002	0.64833	0.63830	0.58245	0.50900	0.54162	24.115	
M	33 Xylene (total)	1.00436	1.43116	1.37826	1.23588	1.05526	1.22098	15.514	
	34 1,1,2,2-Tetrachloroethane	0.51050	0.87043	0.80318	0.68820	0.55759	0.68598	22.470	
	35 Xylene (o)	0.31690	0.46959	0.45784	0.40972	0.34935	0.40068	16.626	
	36 1,3,5-Trimethylbenzene	0.48422	1.12723	1.06991	0.94417	0.77653	0.88041	29.436	
	37 1,2,4-Trimethylbenzene	0.56303	1.11027	1.06653	0.93928	0.78325	0.89247	25.079	
	38 1,3-Dichlorobenzene	0.39660	0.76778	0.75683	0.65522	0.52997	0.62128	25.425	
	39 1,4-Dichlorobenzene	0.48113	0.74763	0.72556	0.65990	0.58063	0.63897	17.155	
	40 1,2-Dichlorobenzene	0.28076	0.65497	0.64794	0.58244	0.48988	0.53120	29.164	
	41 1,2,4-Trichlorobenzene	0.15449	0.18118	0.22827	0.24711	0.24485	0.21118	19.567	
	42 Hexachlorobutadiene	0.08203	0.27195	0.28351	0.26619	0.23444	0.22762	36.637	<-

FORM 7
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 79819

Instrument ID: W Calibration Date: 09/22/00 Time: 1028

Lab File ID: CB010T Init. Calib. Date(s): 07/10/00 07/10/00

Heated Purge: (Y/N) N Init. Calib. Times: 1021 1337

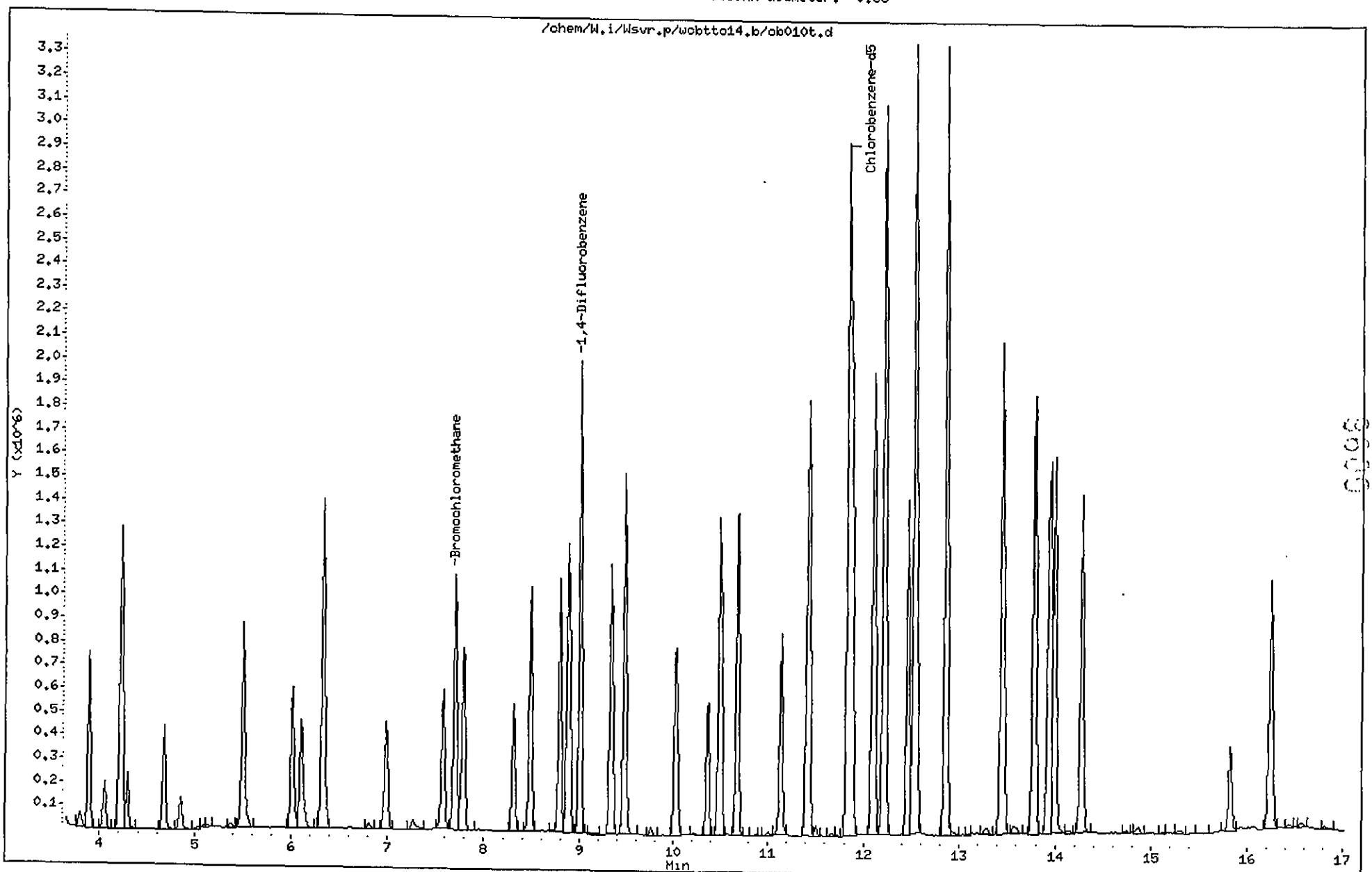
GC Column: DB-1 ID: 0.35 (mm)

COMPOUND	$\overline{RRF}$	RRF10	MIN RRF	%D	MAX %D
Chloromethane	0.725	0.582	0.1	19.7	30.0
Vinyl Chloride	0.783	0.694	0.01	11.4	30.0
Bromomethane	1.011	0.928	0.01	8.2	30.0
Chloroethane	0.458	0.418	0.01	8.7	30.0
Trichlorofluoromethane	2.588	2.390	0.01	7.6	30.0
Methylene Chloride	1.168	0.912	0.01	21.9	30.0
1,1-Dichloroethane	1.883	1.552	0.1	17.6	30.0
Chloroform	2.399	2.071	0.01	13.7	30.0
1,1,1-Trichloroethane	2.294	2.060	0.01	10.2	30.0
Carbon Tetrachloride	0.497	0.442	0.01	11.1	30.0
Benzene	0.685	0.601	0.01	12.3	30.0
1,2-Dichloroethane	1.682	1.430	0.01	15.0	30.0
Trichloroethene	0.315	0.288	0.01	8.6	30.0
1,2-Dichloropropane	0.262	0.232	0.01	11.4	30.0
cis-1,3-Dichloropropene	0.410	0.328	0.01	20.0	30.0
Toluene	0.501	0.419	0.01	16.4	30.0
trans-1,3-Dichloropropene	0.320	0.233	0.01	27.2	30.0
1,1,2-Trichloroethane	0.273	0.246	0.01	9.9	30.0
Tetrachloroethene	0.374	0.328	0.01	12.3	30.0
Chlorobenzene	0.648	0.544	0.3	16.0	30.0
Ethylbenzene	1.120	0.972	0.01	13.2	30.0
Xylene (total)	1.221	1.041	0.01	14.7	30.0
Styrene	0.541	0.459	0.01	15.2	30.0
Xylene (m,p)	0.410	0.347	0.01	15.4	30.0
Xylene (o)	0.401	0.347	0.01	13.5	30.0
1,1,2,2-Tetrachloroethane	0.686	0.588	0.01	14.3	30.0
1,3-Dichlorobenzene	0.621	0.578	0.01	6.9	30.0
1,4-Dichlorobenzene	0.639	0.472	0.01	26.1	30.0
1,2-Dichlorobenzene	0.531	0.433	0.01	18.4	30.0

Data File: /chem/W.i/Wsvr.p/wcbtto14.b/cb010t.d
Date : 22-SEP-2000 10:28
Client ID: ASTD010
Sample Info: ASTD010;ASTD010
Purge Volume: 200.0
Column phase: DB-1

Instrument: W.i

Operator: GMM
Column diameter: 0.35



STL Burlington

AIR TOXICS QUANTITATION REPORT

Data file : /chem/W.i/Wsvr.p/wcbtto14.b/cb010t.d
Lab Smp Id: ASTD010 Client Smp ID: ASTD010
Inj Date : 22-SEP-2000 10:28
Operator : GMM Inst ID: W.i
Smp Info : ASTD010;ASTD010
Misc Info :
Comment :
Method : /chem/W.i/Wsvr.p/wcbtto14.b/ato14.m
Meth Date : 29-Sep-2000 10:30 cmp Quant Type: ISTD
Cal Date : 10-JUL-2000 13:37 Cal File: cb0005i2.d
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ACCANA.sub
Target Version: 3.50
Processing Host: chemsvr4

Concentration Formula: Amt * DF * X* Uf/Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
X	200.00000	method volume factor
Uf	1.00000	ng unit correction factor
Vo	200.00000	Sample Volume purged (mL)

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	AMOUNTS ON-COL (ppbv)	
2	Chloromethane	50	4.056	4.056	(0.527)	207182	10.0000	8.0	
4	Vinyl Chloride	62	4.287	4.287	(0.557)	247193	10.0000	8.9	
5	Bromomethane	94	4.676	4.676	(0.607)	330577	10.0000	9.2	
6	Chloroethane	64	4.849	4.849	(0.630)	149018	10.0000	9.1	
7	Trichlorofluoromethane	101	5.497	5.497	(0.714)	850876	10.0000	9.2	
9	Methylene Chloride	49	6.104	6.104	(0.793)	324625	10.0000	7.8	
11	1,1-Dichloroethane	63	6.985	6.985	(0.907)	552691	10.0000	8.2	
* 13	Bromochloromethane	128	7.698	7.698	(1.000)	356062	10.0000		(Q)
14	Chloroform	83	7.774	7.774	(1.010)	737571	10.0000	8.6	
15	1,2-Dichloroethane	62	8.305	8.305	(1.079)	509257	10.0000	8.5	
16	1,1,1-Trichloroethane	97	8.487	8.487	(1.103)	733358	10.0000	9.0	
17	Benzene	78	8.791	8.791	(0.976)	1003791	10.0000	8.8	
18	Carbon Tetrachloride	117	8.882	8.882	(0.986)	738457	10.0000	8.9	
* 19	1,4-Difluorobenzene	114	9.003	9.003	(1.000)	1669325	10.0000		

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	AMOUNTS ON-COL (ppbv)
20	1,2-Dichloropropane	63	9.337	9.337	(1.037)	386631	10.0000	8.8
21	Trichloroethene	95	9.473	9.473	(1.052)	481466	10.0000	9.2
22	cis-1,3-Dichloropropene	75	10.035	10.035	(1.115)	547016	10.0000	8.0
23	trans-1,3-Dichloropropene	75	10.369	10.369	(1.152)	389669	10.0000	7.3
24	1,1,2-Trichloroethane	83	10.490	10.490	(1.165)	410990	10.0000	9.0
25	Toluene	92	10.688	10.688	(0.903)	777303	10.0000	8.4
27	Tetrachloroethene	166	11.416	11.416	(0.964)	608872	10.0000	8.8
* 28	Chlorobenzene-d5	117	11.841	11.841	(1.000)	1854709	10.0000	
29	Chlorobenzene	112	11.871	11.871	(1.003)	1009674	10.0000	8.4
30	Ethylbenzene	91	12.099	12.099	(1.022)	1802219	10.0000	8.7
31	Xylene (m,p)	106	12.220	12.220	(1.032)	1288556	20.0000	17
32	Styrene	104	12.463	12.463	(1.053)	851342	10.0000	8.5
M 33	Xylene (total)	106				1931535	10.0000	26
34	1,1,2,2-Tetrachloroethane	83	12.539	12.539	(1.059)	1090704	10.0000	8.6
35	Xylene (o)	106	12.539	12.539	(1.059)	642979	10.0000	8.6
38	1,3-Dichlorobenzene	146	13.935	13.935	(1.177)	1073055	10.0000	9.3
39	1,4-Dichlorobenzene	146	13.981	13.981	(1.181)	876327	10.0000	7.4
40	1,2-Dichlorobenzene	146	14.269	14.269	(1.205)	803297	10.0000	8.2

QC Flag Legend

Q - Qualifier signal failed the ratio test.

STL Burlington

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: W.i Injection Date: 22-SEP-2000 10:28
Lab File ID: cb010t.d Init. Cal. Date(s): 10-JUL-2000 10-JUL-2000
Analysis Type: AIR Init. Cal. Times: 10:21 13:37
Lab Sample ID: ASTD010 Quant Type: ISTD
Method: /chem/W.i/Wsvr.p/wcbtto14.b/ato14.m

	COMPOUND	RRF / AMOUNT	RF10	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
	2 Chloromethane	0.72485	0.58187	0.100	19.72504	30.00000	Averaged
	4 Vinyl Chloride	0.78332	0.69424	0.010	11.37200	30.00000	Averaged
	5 Bromomethane	1.01067	0.92843	0.010	8.13803	30.00000	Averaged
	6 Chloroethane	0.45802	0.41852	0.010	8.62421	30.00000	Averaged
	7 Trichlorofluoromethane	2.58808	2.38968	0.010	7.66560	30.00000	Averaged
	9 Methylene Chloride	1.16812	0.91171	0.010	21.95071	30.00000	Averaged
	11 1,1-Dichloroethane	1.88295	1.55223	0.100	17.56358	30.00000	Averaged
	14 Chloroform	2.39904	2.07147	0.010	13.65442	30.00000	Averaged
	15 1,2-Dichloroethane	1.68251	1.43025	0.010	14.99302	30.00000	Averaged
	16 1,1,1-Trichloroethane	2.29408	2.05964	0.010	10.21944	30.00000	Averaged
	17 Benzene	0.68454	0.60132	0.010	12.15783	30.00000	Averaged
	18 Carbon Tetrachloride	0.49735	0.44237	0.010	11.05440	30.00000	Averaged
	20 1,2-Dichloropropane	0.26201	0.23161	0.010	11.60161	30.00000	Averaged
	21 Trichloroethene	0.31497	0.28842	0.010	8.42931	30.00000	Averaged
	22 cis-1,3-Dichloropropene	0.41034	0.32769	0.010	20.14347	30.00000	Averaged
	23 trans-1,3-Dichloropropene	0.31964	0.23343	0.010	26.97152	30.00000	Averaged
	24 1,1,2-Trichloroethane	0.27367	0.24620	0.010	10.03839	30.00000	Averaged
	25 Toluene	0.50110	0.41910	0.010	16.36492	30.00000	Averaged
	27 Tetrachloroethene	0.37442	0.32828	0.010	12.32101	30.00000	Averaged
	29 Chlorobenzene	0.64767	0.54438	0.300	15.94789	30.00000	Averaged
	30 Ethylbenzene	1.11981	0.97170	0.010	13.22674	30.00000	Averaged
	31 Xylene (m,p)	0.41015	0.34737	0.010	15.30624	30.00000	Averaged
	32 Styrene	0.54163	0.45902	0.010	15.25201	30.00000	Averaged
M	33 Xylene (total)	1.22099	1.04142	0.010	14.70647	30.00000	Averaged
	34 1,1,2,2-Tetrachloroethane	0.68598	0.58807	0.010	14.27248	30.00000	Averaged
	35 Xylene (o)	0.40068	0.34667	0.010	13.47856	30.00000	Averaged
	38 1,3-Dichlorobenzene	0.62128	0.57856	0.010	6.87640	30.00000	Averaged
	39 1,4-Dichlorobenzene	0.63897	0.47249	0.010	26.05504	30.00000	Averaged
	40 1,2-Dichlorobenzene	0.53120	0.43311	0.010	18.46532	30.00000	Averaged

SEVERN
TRENT
SERVICES

Severn Trent Laboratories, Inc.

METHOD TO-14A
VOLATILE ORGANIC ANALYSIS

RAW QC DATA

Data File: /chem/W.i/Wsvr.p/wcbto14.b/cb001p.d

Date : 10-JUL-2000 08:31

Client ID: WBFB001

Instrument: W.i

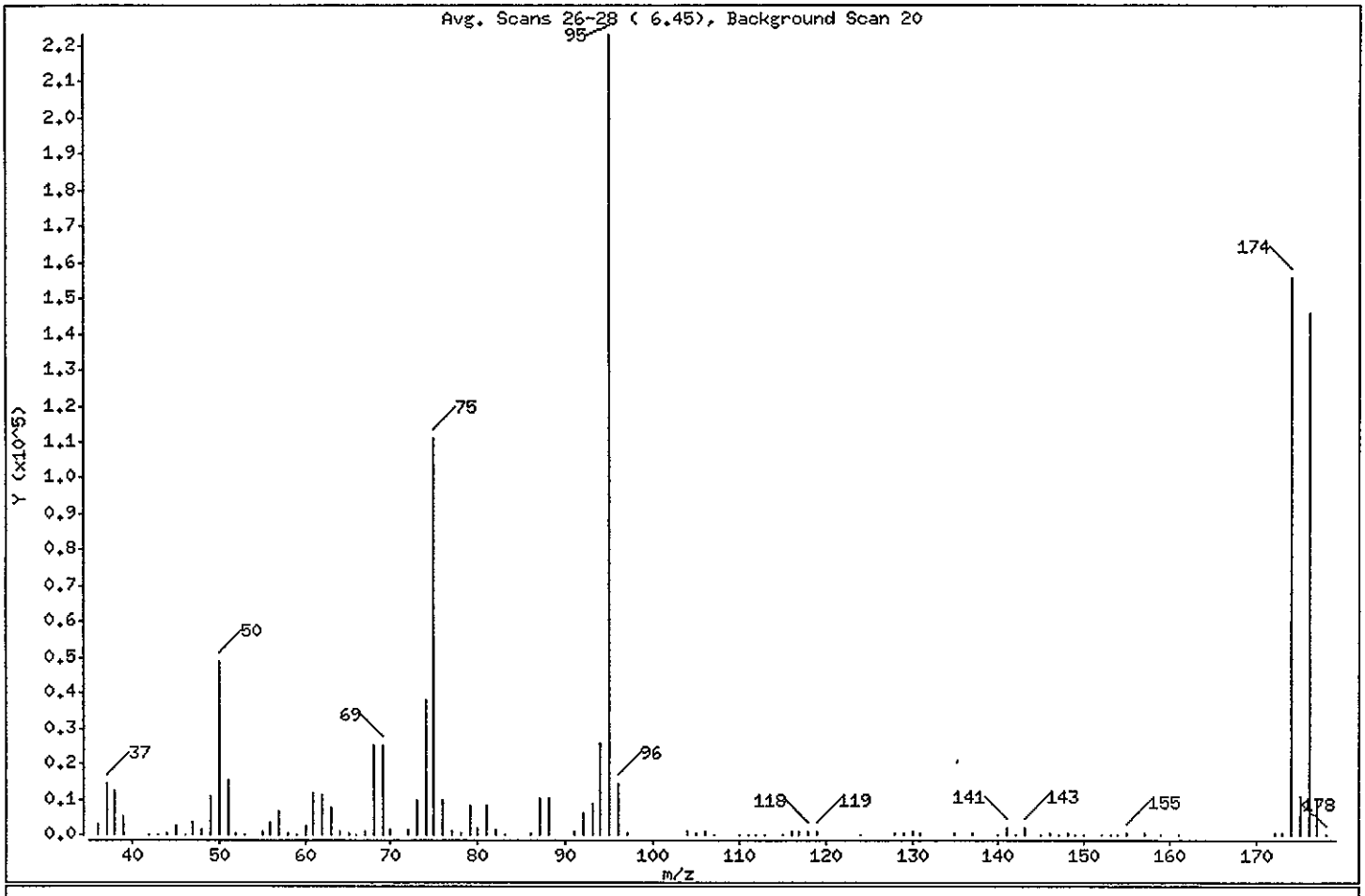
Sample Info: WBFB001

Operator: GMM

Column phase: DB-1

Column diameter: 0.32

$ 1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	8.00 - 40.00% of mass 95	21.96
75	30.00 - 66.00% of mass 95	49.76
96	5.00 - 9.00% of mass 95	6.55
173	Less than 2.00% of mass 174	0.15 (0.21)
174	50.00 - 120.00% of mass 95	69.80
175	4.00 - 9.00% of mass 174	4.90 (7.01)
176	93.00 - 101.00% of mass 174	65.49 (93.83)
177	5.00 - 9.00% of mass 176	4.48 (6.84)

Data File: /chem/W.1/Wsvr.p/wcbto14.b/cb001p.d

Date : 10-JUL-2000 08:31

Client ID: WBFB001 Instrument: W.1

Sample Info: WBFB001

Operator: GMH

Column phase: DB-1 Column diameter: 0.32

Data File: cb001p.d

Spectrum: Avg. Scans 26-28 (6.45), Background Scan 20

Location of Maximum: 95.00

Number of points: 98

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	2861	64.00	785	94.00	25552	141.00	1851
37.00	14383	65.00	499	95.00	223104	142.00	118
38.00	12115	66.00	150	96.00	14620	143.00	1934
39.00	5050	67.00	782	97.00	346	145.00	111
42.00	12	68.00	25048	104.00	959	146.00	346
43.00	154	69.00	25400	105.00	317	147.00	149
44.00	580	70.00	1684	106.00	903	148.00	440
45.00	2434	72.00	1298	107.00	233	149.00	101
46.00	223	73.00	9910	110.00	143	150.00	195
47.00	3418	74.00	38120	111.00	149	152.00	61
48.00	1601	75.00	111016	112.00	56	153.00	68
49.00	10873	76.00	9914	113.00	223	154.00	57
50.00	49000	77.00	1231	115.00	181	155.00	367
51.00	15585	78.00	723	116.00	806	157.00	334
52.00	683	79.00	7993	117.00	844	159.00	219
53.00	73	80.00	2197	118.00	908	161.00	232
55.00	774	81.00	8118	119.00	1083	172.00	444
56.00	3538	82.00	1377	124.00	66	173.00	326
57.00	6819	83.00	214	128.00	768	174.00	155712
58.00	319	86.00	284	129.00	331	175.00	10922
59.00	51	87.00	10473	130.00	889	176.00	146112
60.00	2393	88.00	10156	131.00	349	177.00	9988
61.00	11691	91.00	792	135.00	354	178.00	233
62.00	11071	92.00	6074	137.00	396		
63.00	7622	93.00	8858	140.00	61		

Data File: /chem/W.i/Wsvr.p/wcbto14.b/cb001p.d

Date : 10-JUL-2000 08:31

Client ID: WBFB001

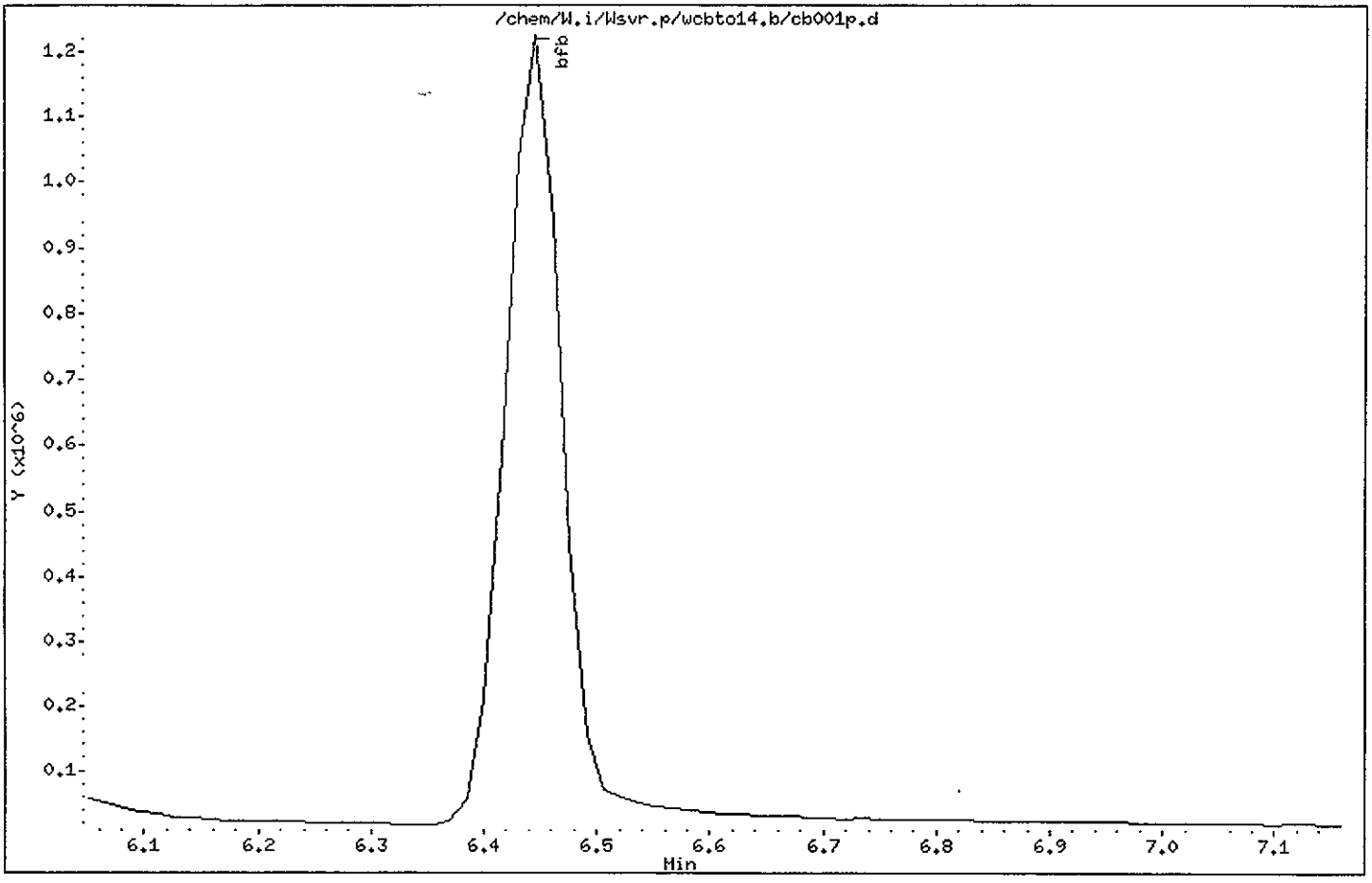
Instrument: W.i

Sample Info: WBFB001

Operator: GMM

Column phase: DB-1

Column diameter: 0.32



Data File: /chem/W.i/Wsvr.p/wcbtto14.b/cb020p.d

Date : 22-SEP-2000 10:09

Client ID: WBFB020

Instrument: W.i

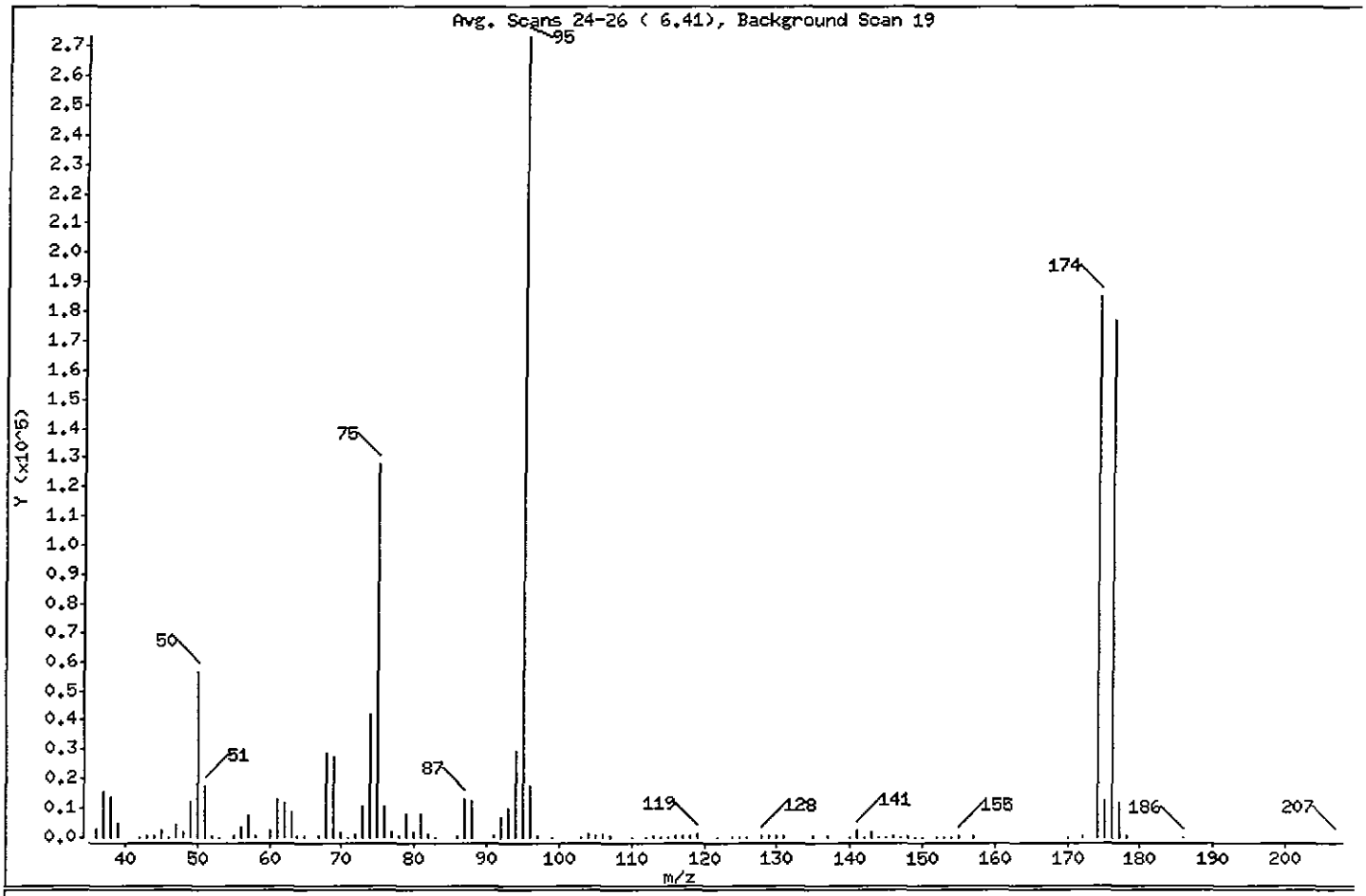
Sample Info: WBFB020

Operator: GMM

Column phase: DB-1

Column diameter: 0.32

$ 1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	8.00 - 40.00% of mass 95	20.63
75	30.00 - 66.00% of mass 95	46.74
96	5.00 - 9.00% of mass 95	6.44
173	Less than 2.00% of mass 174	0.00 (0.00)
174	50.00 - 120.00% of mass 95	67.65
175	4.00 - 9.00% of mass 174	4.72 (6.98)
176	93.00 - 101.00% of mass 174	64.76 (95.73)
177	5.00 - 9.00% of mass 176	4.38 (6.76)

Data File: /chem/W.i/Wsvr.p/wcbtto14.b/cb020p.d

Date : 22-SEP-2000 10:09

Client ID: WBFB020

Instrument: W.i

Sample Info: WBFB020

Operator: GMM

Column phase: DB-1

Column diameter: 0.32

Data File: cb020p.d

Spectrum: Avg. Scans 24-26 (6.41), Background Scan 19

Location of Maximum: 95.00

Number of points: 106

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	3249	68.00	28672	103.00	148	142.00	202
37.00	15885	69.00	27904	104.00	1250	143.00	1746
38.00	13603	70.00	1910	105.00	535	144.00	59
39.00	4772	71.00	194	106.00	1106	145.00	219
42.00	33	72.00	1481	107.00	413	146.00	348
43.00	430	73.00	10607	110.00	162	147.00	61
44.00	694	74.00	42080	111.00	148	148.00	461
45.00	2698	75.00	127728	112.00	216	149.00	208
46.00	199	76.00	11002	113.00	370	150.00	287
47.00	4118	77.00	1647	114.00	24	152.00	53
48.00	1686	78.00	840	115.00	173	153.00	218
49.00	12241	79.00	8014	116.00	861	154.00	214
50.00	56384	80.00	2075	117.00	697	155.00	534
51.00	17784	81.00	8138	118.00	904	157.00	390
52.00	745	82.00	1560	119.00	1124	159.00	254
53.00	37	83.00	57	122.00	52	161.00	219
55.00	608	86.00	395	124.00	112	170.00	112
56.00	3980	87.00	13186	125.00	58	172.00	402
57.00	7332	88.00	12797	126.00	193	174.00	184832
58.00	381	91.00	812	128.00	922	175.00	12897
60.00	2631	92.00	6775	129.00	495	176.00	176960
61.00	12948	93.00	10069	130.00	723	177.00	11958
62.00	11961	94.00	29472	131.00	324	178.00	374
63.00	9041	95.00	273216	135.00	419	186.00	53
64.00	772	96.00	17592	137.00	400	207.00	63
65.00	358	97.00	609	140.00	212		
67.00	512	99.00	53	141.00	2243		

Data File: /chem/W.i/Wsvr.p/wcbtto14.b/cb020p.d

Date : 22-SEP-2000 10:09

Client ID: WBFB020

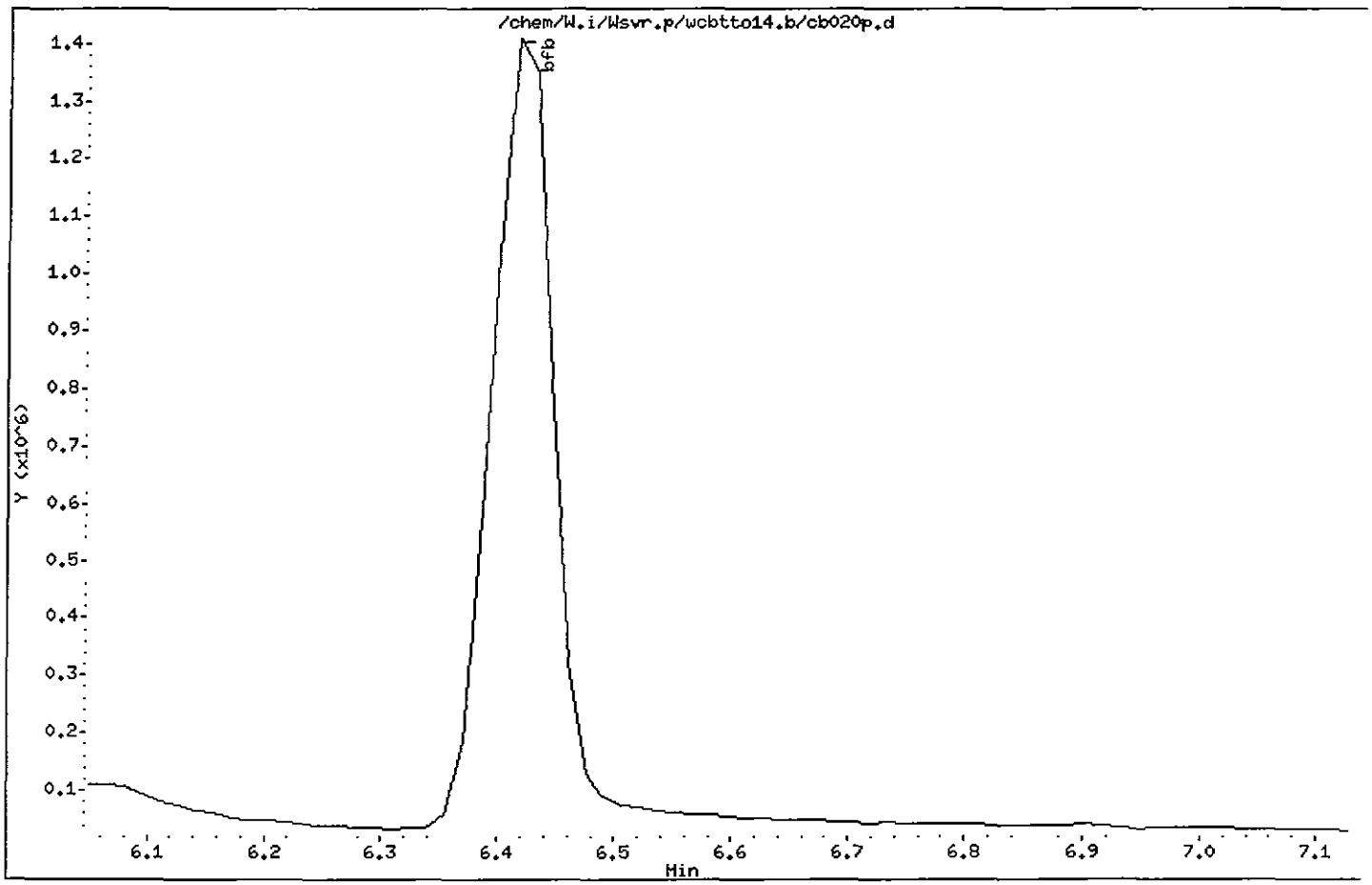
Instrument: W.i

Sample Info: WBFB020

Operator: GMM

Column phase: DB-1

Column diameter: 0.32



FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

STLVT SAMPLE NO.

ABLKY4

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 79819

Matrix: (soil/water) AIR Lab Sample ID: ABLKY4

Sample wt/vol: 200 (g/mL) ML Lab File ID: CBB001T

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

% Moisture: not dec. _____ Date Analyzed: 09/22/00

GC Column: DB-1 ID: 0.35 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) PPBV	Q
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl Chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-09-2	Methylene Chloride	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
56-23-5	Carbon Tetrachloride	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-88-3	Toluene	0.50	U
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
1330-20-7	Xylene (total)	0.50	U
100-42-5	Styrene	0.50	U
1330-20-7	Xylene (m,p)	0.50	U
95-47-6	Xylene (o)	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

STLVT SAMPLE NO.

ABLKY4

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 79819

Matrix: (soil/water) AIR Lab Sample ID: ABLKY4

Sample wt/vol: 200 (g/mL) ML Lab File ID: CBB001T

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

% Moisture: not dec. _____ Date Analyzed: 09/22/00

GC Column: DB-1 ID: 0.35 (mm) Dilution Factor: 1.0

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

Number TICs found: 0

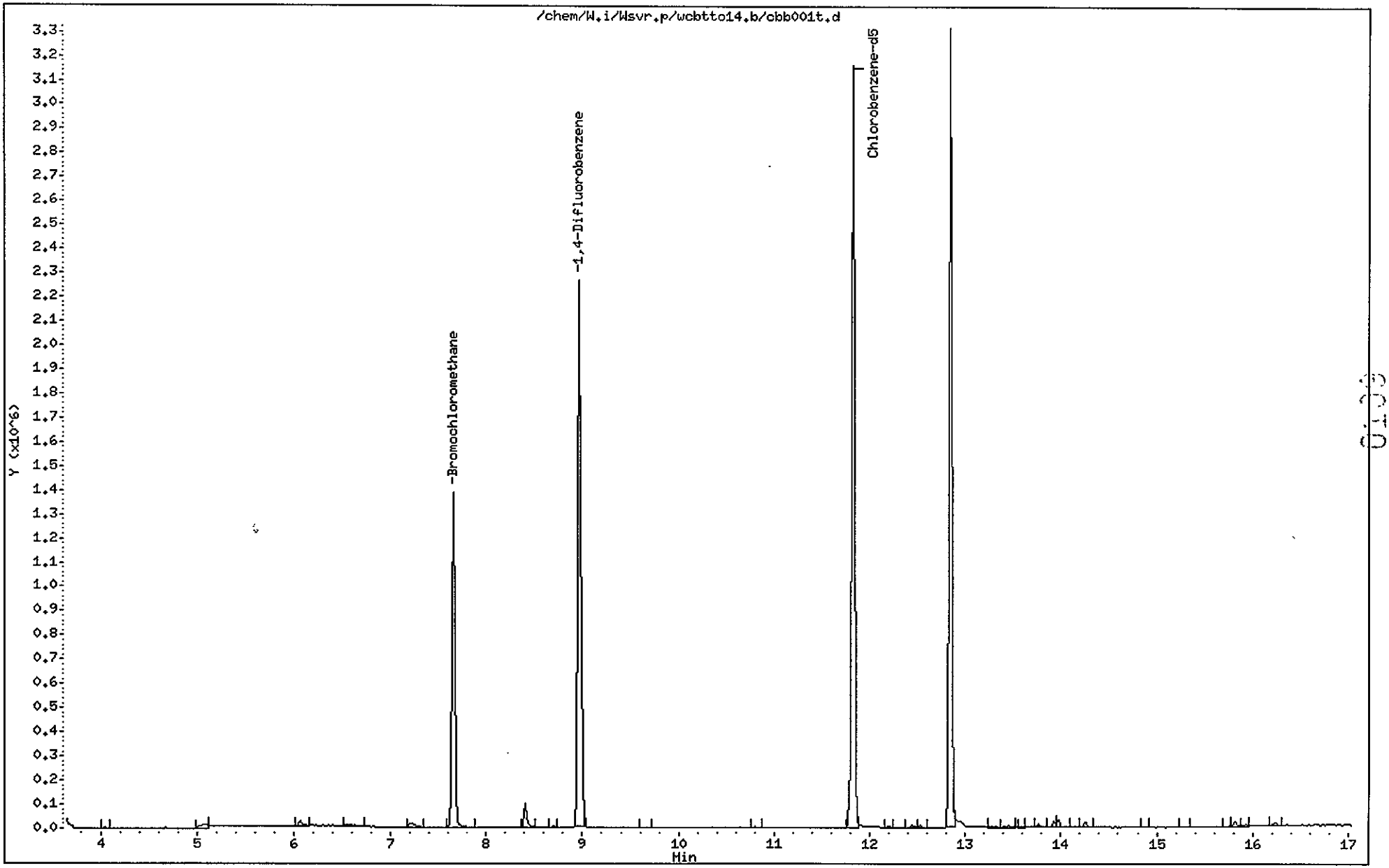
CONCENTRATION UNITS:
(ug/L or ug/Kg) ppbv

	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.					

Data File: /chem/W.i/Wsvr.p/wcbtto14.b/cbb001t.d
Date : 22-SEP-2000 11:40
Client ID: ABLKY4
Sample Info: ABLKY4
Purge Volume: 200.0
Column phase: DB-1

Instrument: W.i

Operator: GHH
Column diameter: 0.35



STL Burlington

AIR TOXICS QUANTITATION REPORT

Data file : /chem/W.i/Wsvr.p/wcbtto14.b/cbb001t.d
Lab Smp Id: ABLKY4 Client Smp ID: ABLKY4
Inj Date : 22-SEP-2000 11:40
Operator : GMM Inst ID: W.i
Smp Info : ABLKY4
Misc Info :
Comment :
Method : /chem/W.i/Wsvr.p/wcbtto14.b/ato14.m
Meth Date : 29-Sep-2000 10:30 cmp Quant Type: ISTD
Cal Date : 10-JUL-2000 13:37 Cal File: cb0005i2.d
Als bottle: 1 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ACCANA.sub
Target Version: 3.50
Processing Host: chemsvr4

Concentration Formula: Amt * DF * X* Uf/Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
X	200.00000	method volume factor
Uf	1.00000	ng unit correction factor
Vo	200.00000	Sample Volume purged (mL)

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	FINAL (ppbv)
	2 Chloromethane	50	Compound Not Detected.					
	4 Vinyl Chloride	62	Compound Not Detected.					
	5 Bromomethane	94	Compound Not Detected.					
	6 Chloroethane	64	Compound Not Detected.					
	7 Trichlorofluoromethane	101	Compound Not Detected.					
	9 Methylene Chloride	49	Compound Not Detected.					
	11 1,1-Dichloroethane	63	Compound Not Detected.					
*	13 Bromochloromethane	128	7.651	7.698	(1.000)	428269	10.0000	
	14 Chloroform	83	Compound Not Detected.					
	15 1,2-Dichloroethane	62	Compound Not Detected.					
	16 1,1,1-Trichloroethane	97	Compound Not Detected.					
	17 Benzene	78	Compound Not Detected.					
	18 Carbon Tetrachloride	117	Compound Not Detected.					
*	19 1,4-Difluorobenzene	114	8.971	9.003	(1.000)	2034969	10.0000	
	20 1,2-Dichloropropane	63	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)
	21 Trichloroethene	95	Compound Not Detected.					
	22 cis-1,3-Dichloropropene	75	Compound Not Detected.					
	23 trans-1,3-Dichloropropene	75	Compound Not Detected.					
	24 1,1,2-Trichloroethane	83	Compound Not Detected.					
	25 Toluene	92	Compound Not Detected.					
	27 Tetrachloroethene	166	Compound Not Detected.					
*	28 Chlorobenzene-d5	117	11.824	11.841	(1.000)	2108516	10.0000	
	29 Chlorobenzene	112	Compound Not Detected.					
	30 Ethylbenzene	91	Compound Not Detected.					
	31 Xylene (m,p)	106	Compound Not Detected.					
	32 Styrene	104	Compound Not Detected.					
M	33 Xylene (total)	106	Compound Not Detected.					
	34 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					
	35 Xylene (o)	106	Compound Not Detected.					
	38 1,3-Dichlorobenzene	146	Compound Not Detected.					
	39 1,4-Dichlorobenzene	146	Compound Not Detected.					
	40 1,2-Dichlorobenzene	146	Compound Not Detected.					

STL Burlington

AIR TOXICS QUANTITATION REPORT

Data file : /chem/W.i/Wsvr.p/wcbtto14.b/cbb001t.d
Lab Smp Id: ABLKY4 Client Smp ID: ABLKY4
Inj Date : 22-SEP-2000 11:40
Operator : GMM Inst ID: W.i
Smp Info : ABLKY4
Misc Info :
Comment :
Method : /chem/W.i/Wsvr.p/wcbtto14.b/ato14.m
Meth Date : 29-Sep-2000 10:30 cmp Quant Type: ISTD
Cal Date : 10-JUL-2000 13:37 Cal File: cb0005i2.d
Als bottle: 1 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ACCANA.sub
Target Version: 3.50
Processing Host: chemsvr4

- NO TENTATIVELY IDENTIFIED COMPOUNDS -

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

STLVT SAMPLE NO.

ICV_LCS

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 79819

Matrix: (soil/water) AIR Lab Sample ID: ICV_LCS

Sample wt/vol: 200 (g/mL) ML Lab File ID: CB010Q

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

% Moisture: not dec. _____ Date Analyzed: 07/10/00

GC Column: DB-1 ID: 0.35 (mm) Dilution Factor: 1.0

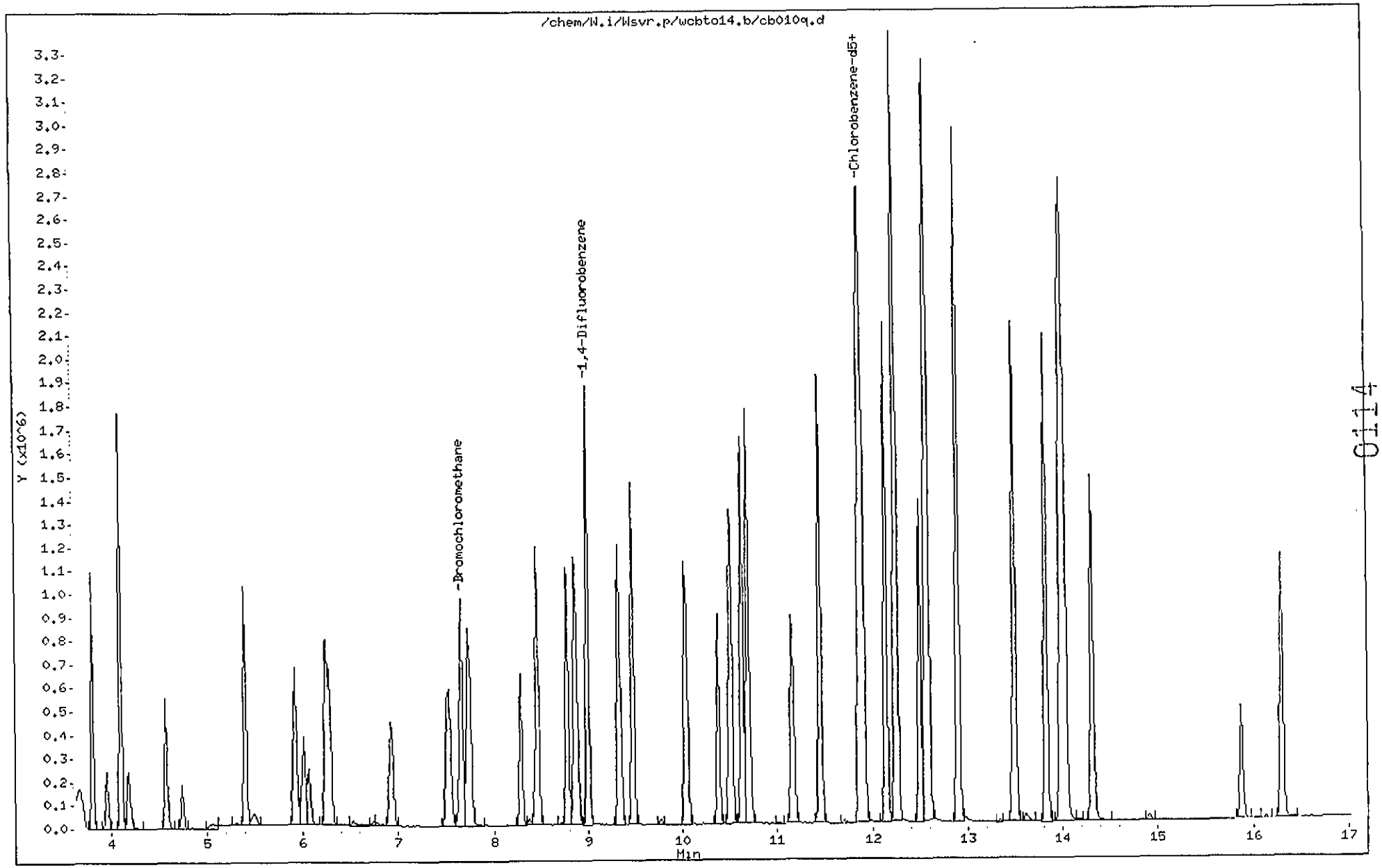
Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) PPBV	Q
74-87-3	Chloromethane	11	
75-01-4	Vinyl Chloride	11	
74-83-9	Bromomethane	10	
75-00-3	Chloroethane	11	
75-69-4	Trichlorofluoromethane	10	
75-09-2	Methylene Chloride	10	
75-34-3	1,1-Dichloroethane	11	
67-66-3	Chloroform	11	
71-55-6	1,1,1-Trichloroethane	11	
56-23-5	Carbon Tetrachloride	10	
71-43-2	Benzene	10	
107-06-2	1,2-Dichloroethane	10	
79-01-6	Trichloroethene	10	
78-87-5	1,2-Dichloropropane	10	
10061-01-5	cis-1,3-Dichloropropene	11	
108-88-3	Toluene	9.3	
10061-02-6	trans-1,3-Dichloropropene	11	
79-00-5	1,1,2-Trichloroethane	10	
127-18-4	Tetrachloroethene	9.2	
108-90-7	Chlorobenzene	9.0	
100-41-4	Ethylbenzene	9.4	
1330-20-7	Xylene (total)	28	
100-42-5	Styrene	8.8	
1330-20-7	Xylene (m,p)	18	
95-47-6	Xylene (o)	9.3	
79-34-5	1,1,2,2-Tetrachloroethane	9.3	
541-73-1	1,3-Dichlorobenzene	9.0	
106-46-7	1,4-Dichlorobenzene	8.0	
95-50-1	1,2-Dichlorobenzene	8.6	

Data File: /chem/W.i/Wsvr.p/wcbto14.b/cb010q.d
Date : 10-JUL-2000 14:18
Client ID: ICV_LCS
Sample Info: ICV_LCS
Purge Volume: 200.0
Column phase: DB-1

Instrument: W.i

Operator: GMM
Column diameter: 0.35



STL Burlington

AIR TOXICS QUANTITATION REPORT

Data file : /chem/W.i/Wsvr.p/wcbto14.b/cb010q.d
Lab Smp Id: ICV_LCS Client Smp ID: ICV_LCS
Inj Date : 10-JUL-2000 14:18
Operator : GMM Inst ID: W.i
Smp Info : ICV_LCS
Misc Info :
Comment :
Method : /chem/W.i/Wsvr.p/wcbto14.b/ato14.m
Meth Date : 24-Jul-2000 14:59 cpc Quant Type: ISTD
Cal Date : 10-JUL-2000 13:37 Cal File: cb0005i2.d
Als bottle: 1 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50
Processing Host: chemsvr4

Concentration Formula: Amt * DF * X* Uf/Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
X	200.00000	method volume factor
Uf	1.00000	ng unit correction factor
Vo	200.00000	Sample Volume purged (mL)

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	FINAL (ppbv)
1	Dichlorodifluoromethane	85	3.809	3.798	(0.497)	929942	10.5230	10
2	Chloromethane	50	3.968	3 957	(0.518)	252641	10.6928	11
3	Dichlorotetrafluoroethane	85	4.112	4.101	(0.536)	959457	10.6463	11
4	Vinyl Chloride	62	4.199	4.188	(0.548)	283872	11.1176	11
5	Bromomethane	94	4.574	4.563	(0.597)	345487	10.4870	10
6	Chloroethane	64	4.747	4.750	(0.619)	162016	10.8519	11
7	Trichlorofluoromethane	101	5.405	5.406	(0.705)	842029	9.98110	10
8	1,1-Dichloroethene	96	5.921	5.922	(0.772)	265239	9.06600	9.1
9	Methylene Chloride	49	6 012	6.028	(0.784)	380686	9.99786	10
10	Freon TF	101	6 240	6 256	(0.814)	757471	10.7596	11
11	1,1-Dichloroethane	63	6.923	6.923	(0.903)	665983	10.8506	11
12	cis-1,2-Dichloroethene	61	7 530	7 530	(0.982)	509583	11.0498	11
* 13	Bromochloromethane	128	7.666	7.652	(1.000)	325966	10.0000	
14	Chloroform	83	7.742	7.743	(1.010)	841741	10.7639	11

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	FINAL (ppbv)
	15 1,2-Dichloroethane	62	8.288	8.274	(1.061)	572106	10.4315	10
	16 1,1,1-Trichloroethane	97	8.455	8.456	(1.103)	801047	10.7122	11
	17 Benzene	78	8.789	8.775	(0.976)	1128233	10.4389	10
	18 Carbon Tetrachloride	117	8.880	8.866	(0.986)	816917	10.4034	10
*	19 1,4-Difluorobenzene	114	9.002	9.002	1.000	1578858	10.0000	
	20 1,2-Dichloropropane	63	9.336	9.321	(1.037)	436205	10.5448	10
	21 Trichloroethene	95	9.472	9.473	(1.052)	523509	10.5273	10
	22 cis-1,3-Dichloropropene	75	10.034	10.034	(1.115)	723401	11.1658	11
	23 trans-1,3-Dichloropropene	75	10.383	10.368	(1.153)	567691	11.2488	11
	24 1,1,2-Trichloroethane	83	10.504	10.505	(1.167)	451050	10.4388	10
	25 Toluene	92	10.701	10.702	(0.902)	868870	9.33592	9.3
	26 1,2-Dibromoethane	107	11.157	11.157	(0.940)	797900	9.32034	9.3
	27 Tetrachloroethene	166	11.445	11.446	(0.964)	637647	9.16969	9.2
*	28 Chlorobenzene-d5	117	11.870	11.871	(1.000)	1857258	10.0000	
	29 Chlorobenzene	112	11.900	11.901	(1.003)	1082756	9.00123	9.0
	30 Ethylbenzene	91	12.143	12.144	(1.023	1955270	9.40133	9.4
	31 Xylene (m,p)	106	12.249	12.250	(1.032)	1402693	18.4138	18
	32 Styrene	104	12.507	12.508	(1.054)	888598	8.83356	8.8
M	33 Xylene (total)	106				2096717	27.7401	28
	34 1,1,2,2-Tetrachloroethane	83	12.568	12.569	(1.059)	1190191	9.34187	9.3
	35 Xylene (o)	106	12.583	12.584	(1.060)	694024	9.32625	9.3
	36 1,3,5-Trimethylbenzene	105	13.494	13.494	(1.137)	1523215	9.31544	9.3
	37 1,2,4-Trimethylbenzene	105	13.828	13.828	(1.165)	1475493	8.90164	8.9
	38 1,3-Dichlorobenzene	146	13.979	13.980	(1.178)	1036147	8.97972	9.0
	39 1,4-Dichlorobenzene	146	14.025	14.041	(1.182)	952531	8.02649	8.0
	40 1,2-Dichlorobenzene	146	14.313	14.329	(1.206)	852240	8.63839	8.6
	41 1,2,4-Trichlorobenzene	180	15.876	15.877	(1.338)	205064	5.22830	5.2(R)
	42 Hexachlorobutadiene	225	16.301	16.302	(1.373)	264628	6.25960	6.2(R)

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

STL Burlington

RECOVERY REPORT

Client Name: Client SDG:
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: ICV_LCS Client Smp ID: ICV_LCS
Level: LOW Operator: GMM
Data Type: MS DATA SampleType: LCS
SpikeList File: all.spk Quant Type: ISTD
Sublist File: all.sub
Method File: /chem/W.i/Wsvr.p/wcbto14.b/ato14.m
Misc Info:

SPIKE COMPOUND	CONC ADDED ppbv	CONC RECOVERED ppbv	% RECOVERED	LIMITS
1 Dichlorodifluorome	10	10	105.23	70-130
2 Chloromethane	10	11	106.93	70-130
3 Dichlorotetrafluor	10	11	106.46	70-130
4 Vinyl Chloride	10	11	111.18	70-130
5 Bromomethane	10	10	104.87	70-130
6 Chloroethane	10	11	108.52	70-130
7 Trichlorofluoromet	10	10	99.81	70-130
8 1,1-Dichloroethene	10	9.1	90.66	70-130
9 Methylene Chloride	10	10	99.98	70-130
10 Freon TF	10	11	107.60	70-130
11 1,1-Dichloroethane	10	11	108.51	70-130
12 cis-1,2-Dichloroet	10	11	110.50	70-130
14 Chloroform	10	11	107.64	70-130
15 1,2-Dichloroethane	10	10	104.32	70-130
16 1,1,1-Trichloroeth	10	11	107.12	70-130
17 Benzene	10	10	104.39	70-130
18 Carbon Tetrachlori	10	10	104.03	70-130
20 1,2-Dichloropropan	10	10	105.45	70-130
21 Trichloroethene	10	10	105.27	70-130
22 cis-1,3-Dichloropr	10	11	111.66	70-130
23 trans-1,3-Dichloro	10	11	112.49	70-130
24 1,1,2-Trichloroeth	10	10	104.39	70-130
25 Toluene	10	9.3	93.36	70-130
26 1,2-Dibromoethane	10	9.3	93.20	70-130
27 Tetrachloroethene	10	9.2	91.70	70-130
29 Chlorobenzene	10	9.0	90.01	70-130
30 Ethylbenzene	10	9.4	94.01	70-130
31 Xylene (m,p)	20	18	92.07	70-130
32 Styrene	10	8.8	88.34	70-130
34 1,1,2,2-Tetrachlor	10	9.3	93.42	70-130
35 Xylene (o)	10	9.3	93.26	70-130
36 1,3,5-Trimethylben	10	9.3	93.15	70-130
37 1,2,4-Trimethylben	10	8.9	89.02	70-130

SPIKE COMPOUND	CONC ADDED ppbv	CONC RECOVERED ppbv	% RECOVERED	LIMITS
38 1,3-Dichlorobenzen	10	9.0	89.80	70-130
39 1,4-Dichlorobenzen	10	8.0	80.26	70-130
40 1,2-Dichlorobenzen	10	8.6	86.38	70-130
41 1,2,4-Trichloroben	10	5.2	52.28*	70-130
42 Hexachlorobutadien	10	6.2	62.60*	70-130

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

STLVT SAMPLE NO.

Y4_LCS

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 79819

Matrix: (soil/water) AIR Lab Sample ID: Y4_LCS

Sample wt/vol: 200 (g/mL) ML Lab File ID: CB010TQ

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

% Moisture: not dec. _____ Date Analyzed: 09/22/00

GC Column: DB-1 ID: 0.35 (mm) Dilution Factor: 1.0

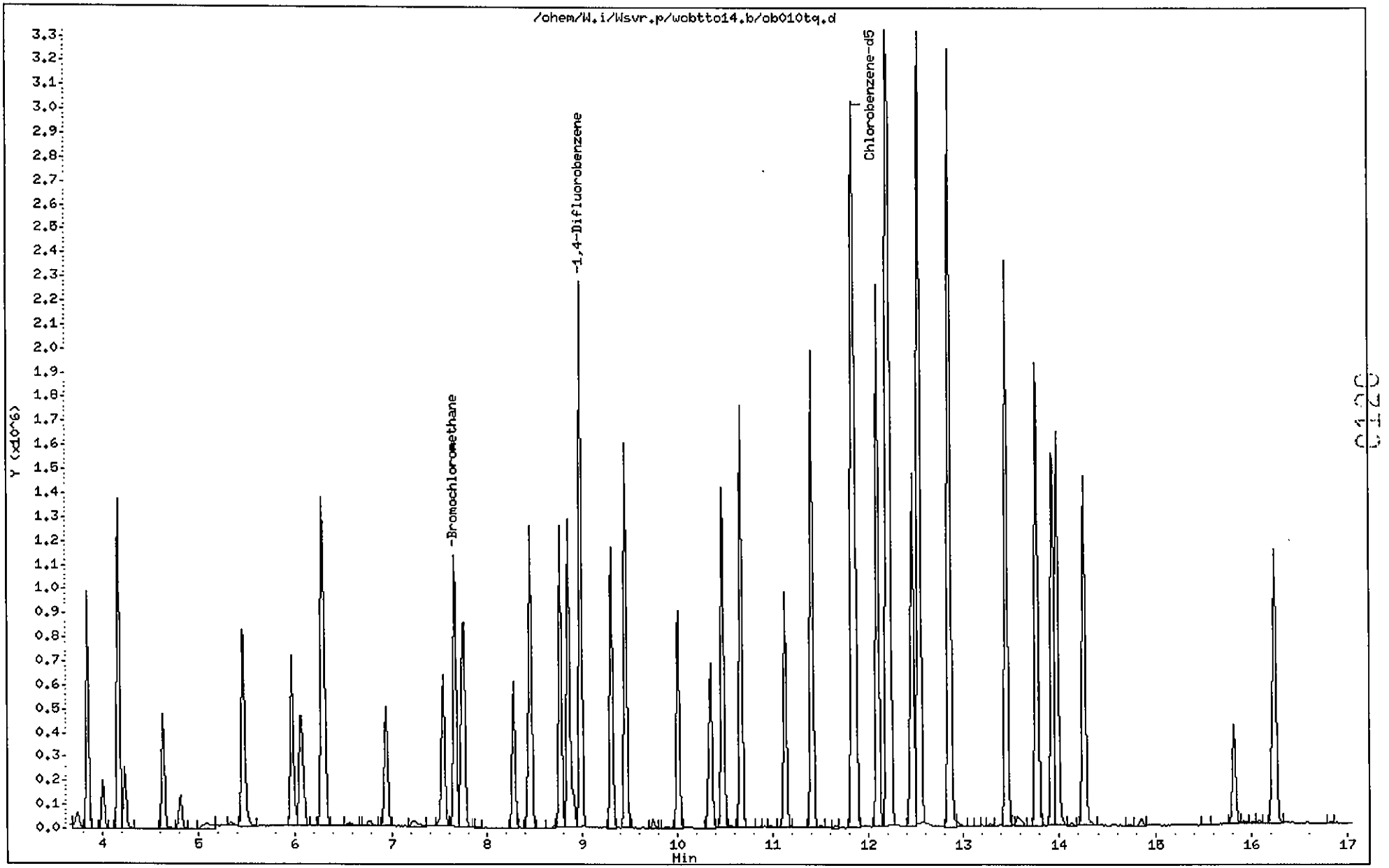
Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) PPBV	Q
74-87-3	Chloromethane	8.7	
75-01-4	Vinyl Chloride	9.5	
74-83-9	Bromomethane	9.7	
75-00-3	Chloroethane	9.6	
75-69-4	Trichlorofluoromethane	9.1	
75-09-2	Methylene Chloride	8.0	
75-34-3	1,1-Dichloroethane	8.6	
67-66-3	Chloroform	9.2	
71-55-6	1,1,1-Trichloroethane	9.1	
56-23-5	Carbon Tetrachloride	8.7	
71-43-2	Benzene	9.0	
107-06-2	1,2-Dichloroethane	8.8	
79-01-6	Trichloroethene	9.3	
78-87-5	1,2-Dichloropropane	9.1	
10061-01-5	cis-1,3-Dichloropropene	8.3	
108-88-3	Toluene	8.9	
10061-02-6	trans-1,3-Dichloropropene	7.6	
79-00-5	1,1,2-Trichloroethane	9.2	
127-18-4	Tetrachloroethene	9.1	
108-90-7	Chlorobenzene	8.8	
100-41-4	Ethylbenzene	9.0	
1330-20-7	Xylene (total)	26	
100-42-5	Styrene	9.0	
1330-20-7	Xylene (m,p)	18	
95-47-6	Xylene (o)	8.7	
79-34-5	1,1,2,2-Tetrachloroethane	8.7	
541-73-1	1,3-Dichlorobenzene	7.9	
106-46-7	1,4-Dichlorobenzene	8.6	
95-50-1	1,2-Dichlorobenzene	8.1	

Data File: /chem/W.i/Wsvr.p/wobtto14.b/ob010tq.d
Date : 22-SEP-2000 11:07
Client ID: Y4_LCS
Sample Info: Y4_LCS;Y4_LCS
Purge Volume: 200.0
Column phase: DB-1

Instrument: W.i

Operator: GMM
Column diameter: 0.35



STL Burlington

AIR TOXICS QUANTITATION REPORT

Data file : /chem/W.i/Wsvr.p/wcbtto14.b/cb010tq.d
Lab Smp Id: Y4_LCS Client Smp ID: Y4_LCS
Inj Date : 22-SEP-2000 11:07
Operator : GMM Inst ID: W.i
Smp Info : Y4_LCS;Y4_LCS
Misc Info :
Comment :
Method : /chem/W.i/Wsvr.p/wcbtto14.b/ato14.m
Meth Date : 29-Sep-2000 10:30 cmp Quant Type: ISTD
Cal Date : 10-JUL-2000 13:37 Cal File: cb0005i2.d
Als bottle: 1 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ACCANA.sub
Target Version: 3.50
Processing Host: chemsvr4

Concentration Formula: Amt * DF * X* Uf/Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
X	200.00000	method volume factor
Uf	1.00000	ng unit correction factor
Vo	200.00000	Sample Volume purged (mL)

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	FINAL (ppbv)
	2 Chloromethane	50	4.002	4.056	(0.522)	236336	8.73673	8.7
	4 Vinyl Chloride	62	4.233	4.287	(0.552)	278068	9.51211	9.5
	5 Bromomethane	94	4.622	4.676	(0.603)	365493	9.69021	9.7
	6 Chloroethane	64	4.810	4.849	(0.627)	163655	9.57442	9.6
	7 Trichlorofluoromethane	101	5.451	5.497	(0.711)	882744	9.13951	9.1
	9 Methylene Chloride	49	6.058	6.104	(0.790)	347358	7.96811	8.0
	11 1,1-Dichloroethane	63	6.953	6.985	(0.907)	603350	8.58612	8.6
*	13 Bromochloromethane	128	7.666	7.698	(1.000)	373194	10.0000	(Q)
	14 Chloroform	83	7.757	7.774	(1.012)	828742	9.25650	9.2
	15 1,2-Dichloroethane	62	8.288	8.305	(1.081)	555436	8.84591	8.8
	16 1,1,1-Trichloroethane	97	8.455	8.487	(1.103)	782025	9.13435	9.1
	17 Benzene	78	8.774	8.791	(0.976)	1147797	9.03448	9.0
	18 Carbon Tetrachloride	117	8.865	8.882	(0.986)	800136	8.66845	8.7
*	19 1,4-Difluorobenzene	114	8.987	9.003	(1.000)	1855935	10.0000	

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)
	20 1,2-Dichloropropane	63	9.320	9.337	(1.037)	443467	9.11984	9.1
	21 Trichloroethene	95	9.457	9.473	(1.052)	542950	9.28814	9.3
	22 cis-1,3-Dichloropropene	75	10.018	10.035	(1.115)	632860	8.30991	8.3
	23 trans-1,3-Dichloropropene	75	10.352	10.369	(1.152)	448215	7.55546	7.6
	24 1,1,2-Trichloroethane	83	10.474	10.490	(1.165)	469267	9.23898	9.2
	25 Toluene	92	10.671	10.688	(0.901)	896119	8.94622	8.9
	27 Tetrachloroethene	166	11.415	11.416	(0.964)	681631	9.10741	9.1
*	28 Chlorobenzene-d5	117	11.840	11.841	(1.000)	1998941	10.0000	
	29 Chlorobenzene	112	11.870	11.871	(1.003)	1138139	8.79101	8.8
	30 Ethylbenzene	91	12.098	12.099	(1.022)	2012218	8.98937	9.0
	31 Xylene (m,p)	106	12.204	12.220	(1.031)	1435923	17.5140	18
	32 Styrene	104	12.462	12.463	(1.053)	969352	8.95329	9.0
M	33 Xylene (total)	106				2134029	26.2301	26
	34 1,1,2,2-Tetrachloroethane	83	12.522	12.539	(1.058)	1188605	8.66816	8.7
	35 Xylene (o)	106	12.538	12.539	(1.059)	698106	8.71614	8.7
	38 1,3-Dichlorobenzene	146	13.934	13.935	(1.177)	982975	7.91509	7.9
	39 1,4-Dichlorobenzene	146	13.979	13.981	(1.181)	1098520	8.60055	8.6
	40 1,2-Dichlorobenzene	146	14.268	14.269	(1.205)	864300	8.13967	8.1

QC Flag Legend

Q - Qualifier signal failed the ratio test.

STL Burlington

RECOVERY REPORT

Client Name: STLVT
Client SDG: wcbtto14
Sample Matrix: GAS
Fraction: VOA
Lab Smp Id: Y4_LCS
Client Smp ID: Y4_LCS
Level: LOW
Operator: GMM
Data Type: MS DATA
SampleType: LCS
SpikeList File: ACCANA.spk
Quant Type: ISTD
Sublist File: ACCANA.sub
Method File: /chem/W.i/Wsvr.p/wcbtto14.b/ato14.m
Misc Info:

SPIKE	COMPOUND	CONC ADDED ppbv	CONC RECOVERED ppbv	% RECOVERED	LIMITS
2	Chloromethane	10	8.7	87.37	70-130
4	Vinyl Chloride	10	9.5	95.12	70-130
5	Bromomethane	10	9.7	96.90	70-130
6	Chloroethane	10	9.6	95.74	70-130
7	Trichlorofluoromet	10	9.1	91.40	70-130
9	Methylene Chloride	10	8.0	79.68	70-130
11	1,1-Dichloroethane	10	8.6	85.86	70-130
14	Chloroform	10	9.2	92.56	70-130
15	1,2-Dichloroethane	10	8.8	88.46	70-130
16	1,1,1-Trichloroeth	10	9.1	91.34	70-130
17	Benzene	10	9.0	90.34	70-130
18	Carbon Tetrachlori	10	8.7	86.68	70-130
20	1,2-Dichloropropan	10	9.1	91.20	70-130
21	Trichloroethene	10	9.3	92.88	70-130
22	cis-1,3-Dichloropr	10	8.3	83.10	70-130
23	trans-1,3-Dichloro	10	7.6	75.55	70-130
24	1,1,2-Trichloroeth	10	9.2	92.39	70-130
25	Toluene	10	8.9	89.46	70-130
27	Tetrachloroethene	10	9.1	91.07	70-130
29	Chlorobenzene	10	8.8	87.91	70-130
30	Ethylbenzene	10	9.0	89.89	70-130
31	Xylene (m,p)	20	18	87.57	70-130
32	Styrene	10	9.0	89.53	70-130
34	1,1,2,2-Tetrachlor	10	8.7	86.68	70-130
35	Xylene (o)	10	8.7	87.16	70-130
38	1,3-Dichlorobenzen	10	7.9	79.15	70-130
39	1,4-Dichlorobenzen	10	8.6	86.01	70-130
40	1,2-Dichlorobenzen	10	8.1	81.40	70-130

SEVERN
TRENT
SERVICES

Severn Trent Laboratories, Inc.

SAMPLE PREPARATION

Severn Trent Laboratories-VT
Instrument Run Log
Instrument w

Batch: wchto14
Opened: 7 / 10 / 00 Time: 0831
Closed: 7 / 11 / 00 Time: 0831

ETR #

SDG #

Tune ✓
ISTD Tag # : 01-1388

Temp. 19.5 °C B P 29.45 "Hg

INJ TIME	LAB ID	CAN ID #	CLIENT ID	ETR #	INLET #	SAMPLE VOLUME (mL)	DILUTION FACTOR	ISTD RECOVERY	CONC	ANALYST	COMMENTS
0831	cb001p	n/a	WBFB001	n/a	n/a	n/a	n/a	n/a	✓	GMM	
0948	cb0005	EXP2	ASTD0005		2	20		✓	✓		AT07100002
1021	cb005	EXP1	005		3	25		✓	✓		AT07100001
1055	cb010		010		3	50		✓	✓		
1131	cb020		020		3	100		✓	✓		
1208	cb040		040		3	200		✓	✓		
1337	cb000512	EXP2	ASTD0005		4	20		✓	✓		
1418	cb010q	6062	ICV		2	200		✓	✓		AT07100003
1453	cbb001	#32	ABLKP4		4	200		✓	✓		
1823	C6024	6024	Batch Can	n/a	6	200	n/a	✓	✓	GMM	

GMM 071100

0125

Instrument Run Log
Instrument 42

Batch: 0Cb0104
Opened: 9 / 22 / 00 **Time:** 1009
Closed: 9 / 23 / 00 **Time:** 1001

ETR #	SDG #
79784	79784
79819	79819

Tune ✓
ISTD Tag # 01388

Temp: 19.5 °C B P: 29.41 "Hg

INJ TIME	LAB ID	CAN ID #	CLIENT ID	ETR #	INLET #	SAMPLE VOLUME (mL)	DILUTION FACTOR	ISTD RECOVERY	CONC	ANALYST	COMMENTS
1009	CB0104P	n/a	XBFB020	n/a	n/a	n/a	n/a	n/a	✓	Gmm	
1028	CB0104	6101	ASTD010	↓	3	50	↓	✓	✓	↓	ATO1C90001
1107	CB0104LCS	6071	Y4-LCS	↓	4	200	↓	✓	✓	↓	ATO1C90002
1146	CB0104BLK	n/a	ABLKY4	↓	1	200	↓	✓	✓	↓	
1335	42930012	6066	-2902	79623	5	200	1.1	✓	✓	↓	Re-analysis
1426	430420	6064	SVE 1001-	79781	5	↓	↓	✓	↑	↓	PCE 456
1451	430421	6026	SVE1002-	↓	8	↓	↓	✓	✓	↓	c 0128
1554	430662	054	-ACATA-	79819	9	↓	↓	✓	✓	↓	c
1622	430663	114	-ACA2IA-	↓	10	↓	↓	✓	✓	↓	c
1702	430664	218	-ACAEA-	↓	11	↓	↓	✓	✓	↓	c
1735	430420d2	6094	79784	79784	5	10	1.20	✓	✓	↓	c
	Amm 092500										

SEVERN TRENT SERVICES

Severn Trent Laboratories, Inc.

SAMPLE HANDLING

PLEASE FOLD THIS SHIPPING DOCUMENT IN HALF AND PLACE IT IN A WAYBILL POUCH AFFIXED TO YOUR SHIPMENT SO THAT THE BAR-CODE PORTION OF THE LABEL CAN BE READ AND SCANNED. ***WARNING: USE ONLY THE PRINTED ORIGINAL LABEL FOR SHIPPING. USING A PHOTOCOPY OF THIS LABEL FOR SHIPPING PURPOSES IS FRAUDULENT AND COULD RESULT IN ADDITIONAL BILLING CHARGES, ALONG WITH THE CANCELLATION OF YOUR FEDEX ACCOUNT NUMBER.

FROM: Randy Dumaop (904)777-4812
CCI / J.A. Jones Environmental
6219 Authority Ave.
Building 1
Jacksonville, FL 32215

SHIPPER'S FEDEX ACCOUNT NUMBER

FedEx
Federal Express

TO: Ron Pentkowski (802)655-1203
Severn Trent Laboratories
208 South Park Drive
Suite 1
Colchester, VT 05446-

SHIP DATE: 18SEP00
MAN-WGT: 25 LBS

REF: 154282.99.22.01.01

DELIVERY ADDRESS BARCODE (FEDEX-EDR)

CAD # 3844729 **** 2DAY ****

WED
AA

9-20-00 0930

TRK # **7918 5152 9683** FORM 0201

BTV

Deliver By:
20SEP00

05446-VT-US

KF BTVA

0128

SEVERN TRENT LABORATORIES LOG-IN SHEET - Form DC-1

Lab Name: Severn Trent Laboratories - VT — Page 1 of 1

Received By (Print Name): Frank Bessette — Log-in Date: 9-21-00

Received By (Signature):

Case Number: 20031

Sample Delivery Group No: 79819

ETR Number: 79819

REMARKS.

1. **Custody Seal** *Present/~~Absent~~** / *Intact/~~Broken~~*
2. **Custody Seal Nos.:** /
3. **Chain-of-Custody Records** *Present/~~Absent~~**
4. **Sample Information Sheets** *~~Present~~/Absent**
5. **Airbill** *Airbill/~~Sticker~~* / *Present/~~Absent~~**
6. **Airbill No.:** 718-5152-9683
7. **Sample Tags** *~~Present~~/Absent** — **Sample Tag Numbers** *Listed/Not Listed on Chain-of-Custody*
8. **Sample Condition:** *Intact/~~Broken~~** / *~~Leaking~~*
9. **Does information on the custody records, sample information sheets, sample tags and labels agree?** *~~Yes~~/No**
10. **Date Received at Lab:** 9-20-00
11. **Time Received:** 0930
12. **Cooler Temperature:** N/A

Sample Transfer

Fraction: All

Area #: Level 4

By: FAB

On: 9-20-00

CORRESPONDING			
CLIENT SAMPLE #	SAMPLE TAG #	ASSIGNED LAB #	REMARKS. CONDITION OF SAMPLE SHIPMENT, ETC.
029ACAIA09180004		430662	Were air bubbles present
029ACA2IA09180004		430663	in any VOA vials? N/A
029ACA2A09180004		430664	Samples rcvd intact on 9-20-00 in a box with unbroken custody seals present.
			For sample truncation removed dashes.
			FAB 9-21-00

* Contact Project Director

Reviewed by: — Logbook No: 9/21/00

Date: — Logbook Page No.: 0129

** COOLER RECEIPT CHECKLIST **

WERE CUSTODY SEALS PRESENT ON THE COOLERS?

(YES) NO

IF SO, WERE THERE CUSTODY SEAL NUMBERS?

YES (NO)

LIST THE CUSTODY SEAL NUMBERS. / /

WHAT TYPE OF COOLING WAS UTILIZED?

ICE MELTED ICE PACKS (NONE)

COOLER TEMPERATURE (degrees c): N/A

DATE AND TIME COOLER RECEIVED: 9-20-00 0930

DO SAMPLES APPEAR TO BE INTACT: (YES) NO

DO ANY SAMPLES HAVE SHORT HOLDING TIMES?
(less than seven days)

WET CHEM	YES	(NO)
EXTRACTABLES	YES	(NO)
UNPRES VOA	YES	(NO)

RADIATION SCREEN RESULTS <0.05 MR/HR (YES) NO

SEVERN TRENT SERVICES

STL Burlington
Suite 1
208 South Park Drive
Colchester, VT 05446

Tel: 802 655 1203
Fax: 802 655 1248
www.stl-inc.com

SAMPLE DATA SUMMARY PACKAGE

SDG NO: 80293

CCI NAVY RAC PMO
NOV 10 2000

SEVERN TRENT SERVICES

STL Burlington
208 South Park Drive
Suite 1
Colchester, VT 05446

Tel: 802 655 1203
Fax: 802 655 1248
www.stl-inc.com

November 6, 2000

Mr. David Fuller
Accura Analytical Laboratories
6017 Financial Drive
Norcross, GA 30071

Re: Laboratory Project No. 20031
Case: 20031; SDG: 80293

Dear Mr. Fuller:

Enclosed are the analytical results of samples received intact by Severn Trent Laboratories on October 23, 2000. Laboratory numbers have been assigned and designated as follows:

Lab ID	Client Sample ID	Sample Date	Sample Matrix
	Received: 10/23/00 ETR No: 80293		
434688	029ACAIA10180005	10/18/00	Air
434689	029ACA2IA10180005	10/18/00	Air
434690	029ACAEA10180005	10/18/00	Air

Method TO-14A Modified-Volatile Organics;
Please note that due to a limitation of characters inherent in the reporting software, some characters of the client identification above were truncated.

The laboratory noted no exceptions to method quality control requirements for this analytical work.

If there are any questions regarding this submittal, please contact Ron Pentkowski at (802) 655-1203.

This report shall not be reproduced, except in full, without the written approval of the laboratory. This report is sequentially numbered starting with page 001 and ending with page 9le.

SEVERN TRENT SERVICES

STL Burlington

I certify that this package is in compliance with the NELAC requirements, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Director or his designee, as verified by the following signature.

Sincerely,

Christopher A. Ouellette
Laboratory Director

RAP/rst
Enclosure

SEVERN
TRENT
SERVICES

Severn Trent Laboratories, Inc.

SAMPLE DATA SUMMARY PACKAGE

FOR TO-14A

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

ACCANA SAMPLE NO.

029ACA2IA101

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 80293

Matrix: (soil/water) AIR Lab Sample ID: 434689

Sample wt/vol: 200 (g/mL) ML Lab File ID: 434689

Level: (low/med) LOW Date Received: 10/23/00

% Moisture: not dec. _____ Date Analyzed: 10/30/00

GC Column: DB-1 ID: 0.35 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) PPBV	Q
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl Chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-09-2	Methylene Chloride	1.2	
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
56-23-5	Carbon Tetrachloride	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-88-3	Toluene	0.50	U
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
1330-20-7	Xylene (total)	0.50	U
100-42-5	Styrene	0.50	U
1330-20-7	Xylene (m,p)	0.50	U
95-47-6	Xylene (o)	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

ACCANA SAMPLE NO.

029ACA2IA101

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 80293

Matrix: (soil/water) AIR Lab Sample ID: 434689

Sample wt/vol: 200 (g/mL) ML Lab File ID: 434689

Level: (low/med) LOW Date Received: 10/23/00

% Moisture: not dec. _____ Date Analyzed: 10/30/00

GC Column: DB-1 ID: 0.35 (mm) Dilution Factor: 1.0

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

Number TICs found: 0

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

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.					
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FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

ACCANA SAMPLE NO.

029ACAEA1018

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 80293

Matrix: (soil/water) AIR Lab Sample ID: 434690

Sample wt/vol: 200 (g/mL) ML Lab File ID: 434690

Level: (low/med) LOW Date Received: 10/23/00

% Moisture: not dec. _____ Date Analyzed: 10/30/00

GC Column: DB-1 ID: 0.35 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) PPBV	Q
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl Chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-09-2	Methylene Chloride	0.88	
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
56-23-5	Carbon Tetrachloride	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-88-3	Toluene	0.50	U
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
1330-20-7	Xylene (total)	0.50	U
100-42-5	Styrene	0.50	U
1330-20-7	Xylene (m,p)	0.50	U
95-47-6	Xylene (o)	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U

FORM 1

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

ACCANA SAMPLE NO.

029ACAEA1018

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 80293

Matrix: (soil/water) AIR Lab Sample ID: 434690

Sample wt/vol: 200 (g/mL) ML Lab File ID: 434690

Level: (low/med) LOW Date Received: 10/23/00

% Moisture: not dec. _____ Date Analyzed: 10/30/00

GC Column: DB-1 ID: 0.35 (mm) Dilution Factor: 1.0

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

Number TICs found: 0

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

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
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FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

ACCANA SAMPLE NO.

029ACAIA1018

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 80293

Matrix: (soil/water) AIR Lab Sample ID: 434688

Sample wt/vol: 200 (g/mL) ML Lab File ID: 434688

Level: (low/med) LOW Date Received: 10/23/00

% Moisture: not dec. _____ Date Analyzed: 10/30/00

GC Column: DB-1 ID: 0.35 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) PPBV	Q
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl Chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-09-2	Methylene Chloride	0.94	
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
56-23-5	Carbon Tetrachloride	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-88-3	Toluene	0.50	U
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
1330-20-7	Xylene (total)	0.50	U
100-42-5	Styrene	0.50	U
1330-20-7	Xylene (m,p)	0.50	U
95-47-6	Xylene (o)	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

ACCANA SAMPLE NO.

029ACAIA1018

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 80293

Matrix: (soil/water) AIR Lab Sample ID: 434688

Sample wt/vol: 200 (g/mL) ML Lab File ID: 434688

Level: (low/med) LOW Date Received: 10/23/00

% Moisture: not dec. _____ Date Analyzed: 10/30/00

GC Column: DB-1 ID: 0.35 (mm) Dilution Factor: 1.0

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

Number TICs found: 0

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

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.					
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FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

STLVT SAMPLE NO.

ABLKE1

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 80293

Matrix: (soil/water) AIR Lab Sample ID: ABLKE1

Sample wt/vol: 200 (g/mL) ML Lab File ID: CCB001K

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

% Moisture: not dec. _____ Date Analyzed: 10/30/00

GC Column: DB-1 ID: 0.35 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) PPBV	Q
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl Chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-09-2	Methylene Chloride	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
56-23-5	Carbon Tetrachloride	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-88-3	Toluene	0.50	U
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
1330-20-7	Xylene (total)	0.50	U
100-42-5	Styrene	0.50	U
1330-20-7	Xylene (m,p)	0.50	U
95-47-6	Xylene (o)	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

STLVT SAMPLE NO.

ABLKE1

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 80293

Matrix: (soil/water) AIR Lab Sample ID: ABLKE1

Sample wt/vol: 200 (g/mL) ML Lab File ID: CCB001K

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

% Moisture: not dec. _____ Date Analyzed: 10/30/00

GC Column: DB-1 ID: 0.35 (mm) Dilution Factor: 1.0

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

Number TICs found: 0

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

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.					
2.					
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FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

STLVT SAMPLE NO.

Y6_ICVLCS

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 80293

Matrix: (soil/water) AIR Lab Sample ID: Y6_ICVLCS

Sample wt/vol: 200 (g/mL) ML Lab File ID: CC010Q

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

% Moisture: not dec. _____ Date Analyzed: 09/26/00

GC Column: DB-1 ID: 0.35 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) PPBV	Q
74-87-3	Chloromethane	9.3	
75-01-4	Vinyl Chloride	9.5	
74-83-9	Bromomethane	10	
75-00-3	Chloroethane	10	
75-69-4	Trichlorofluoromethane	10	
75-09-2	Methylene Chloride	9.5	
75-34-3	1,1-Dichloroethane	9.8	
156-59-2	cis-1,2-Dichloroethene	9.8	
67-66-3	Chloroform	9.7	
71-55-6	1,1,1-Trichloroethane	9.6	
56-23-5	Carbon Tetrachloride	9.7	
71-43-2	Benzene	9.8	
107-06-2	1,2-Dichloroethane	9.7	
79-01-6	Trichloroethene	10	
78-87-5	1,2-Dichloropropane	10	
10061-01-5	cis-1,3-Dichloropropene	11	
108-88-3	Toluene	10	
10061-02-6	trans-1,3-Dichloropropene	10	
79-00-5	1,1,2-Trichloroethane	11	
127-18-4	Tetrachloroethene	9.0	
108-90-7	Chlorobenzene	9.4	
100-41-4	Ethylbenzene	10	
1330-20-7	Xylene (total)	29	
100-42-5	Styrene	10	
1330-20-7	Xylene (m,p)	19	
95-47-6	Xylene (o)	9.6	
79-34-5	1,1,2,2-Tetrachloroethane	9.8	
541-73-1	1,3-Dichlorobenzene	9.8	
106-46-7	1,4-Dichlorobenzene	9.7	
95-50-1	1,2-Dichlorobenzene	10	

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

STLVT SAMPLE NO.

E1_LCS

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 80293

Matrix: (soil/water) AIR Lab Sample ID: E1_LCS

Sample wt/vol: 200 (g/mL) ML Lab File ID: CC010KQ

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

% Moisture: not dec. _____ Date Analyzed: 10/30/00

GC Column: DB-1 ID: 0.35 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) PPBV	Q
74-87-3	Chloromethane	8.5	
75-01-4	Vinyl Chloride	8.8	
74-83-9	Bromomethane	8.8	
75-00-3	Chloroethane	8.4	
75-69-4	Trichlorofluoromethane	9.3	
75-09-2	Methylene Chloride	9.2	
75-34-3	1,1-Dichloroethane	9.6	
156-59-2	cis-1,2-Dichloroethene	9.7	
67-66-3	Chloroform	9.6	
71-55-6	1,1,1-Trichloroethane	10	
56-23-5	Carbon Tetrachloride	9.8	
71-43-2	Benzene	9.0	
107-06-2	1,2-Dichloroethane	10	
79-01-6	Trichloroethene	9.8	
78-87-5	1,2-Dichloropropane	9.2	
10061-01-5	cis-1,3-Dichloropropene	10	
108-88-3	Toluene	9.5	
10061-02-6	trans-1,3-Dichloropropene	11	
79-00-5	1,1,2-Trichloroethane	9.8	
127-18-4	Tetrachloroethene	8.9	
108-90-7	Chlorobenzene	8.9	
100-41-4	Ethylbenzene	9.9	
1330-20-7	Xylene (total)	28	
100-42-5	Styrene	10	
1330-20-7	Xylene (m,p)	18	
95-47-6	Xylene (o)	9.3	
79-34-5	1,1,2,2-Tetrachloroethane	9.3	
541-73-1	1,3-Dichlorobenzene	9.7	
106-46-7	1,4-Dichlorobenzene	9.6	
95-50-1	1,2-Dichlorobenzene	10	

FORM 3
AIR VOLATILE LAB CONTROL SAMPLE

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 80293

Matrix Spike - STLVT Sample No.: Y6_ICVLCS

COMPOUND	SPIKE ADDED (ppbv)	SAMPLE CONCENTRATION (ug/L)	LCS CONCENTRATION (ppbv)	LCS % REC #	QC. LIMITS REC.
Chloromethane	10		9.3	93	70-130
Vinyl Chloride	10		9.5	95	70-130
Bromomethane	10		10	100	70-130
Chloroethane	10		10	100	70-130
Trichlorofluoromethane	10		10	100	70-130
Methylene Chloride	10		9.5	95	70-130
1,1-Dichloroethane	10		9.8	98	70-130
cis-1,2-Dichloroethene	10		9.8	98	70-130
Chloroform	10		9.7	97	70-130
1,1,1-Trichloroethane	10		9.6	96	70-130
Carbon Tetrachloride	10		9.7	97	70-130
Benzene	10		9.8	98	70-130
1,2-Dichloroethane	10		9.7	97	70-130
Trichloroethene	10		10	100	70-130
1,2-Dichloropropane	10		10	100	70-130
cis-1,3-Dichloropropene	10		11	110	70-130
Toluene	10		10	100	70-130
trans-1,3-Dichloroprope	10		10	100	70-130
1,1,2-Trichloroethane	10		11	110	70-130
Tetrachloroethene	10		9.0	90	70-130
Chlorobenzene	10		9.4	94	70-130
Ethylbenzene	10		10	100	70-130
Styrene	10		10	100	70-130
Xylene (m,p)	20		19	95	70-130
Xylene (o)	10		9.6	96	70-130
1,1,2,2-Tetrachloroetha	10		9.8	98	70-130
1,3-Dichlorobenzene	10		9.8	98	70-130
1,4-Dichlorobenzene	10		9.7	97	70-130

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

* Values outside of QC limits

COMMENTS: _____

FORM 3
AIR VOLATILE LAB CONTROL SAMPLE

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 80293

Matrix Spike - STLVT Sample No.: Y6_ICVLCS

COMPOUND	SPIKE ADDED (ppbv)	SAMPLE CONCENTRATION (ug/L)	LCS CONCENTRATION (ppbv)	LCS % REC #	QC. LIMITS REC.
1,2-Dichlorobenzene	10		10	100	70-130

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

* Values outside of QC limits

RPD: 0 out of 0 outside limits
Spike Recovery: 0 out of 29 outside limits

COMMENTS: _____

FORM 3
AIR VOLATILE LAB CONTROL SAMPLE

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 80293

Matrix Spike - STLVT Sample No.: E1_LCS

COMPOUND	SPIKE ADDED (ppbv)	SAMPLE CONCENTRATION (ug/L)	LCS CONCENTRATION (ppbv)	LCS % REC #	QC. LIMITS REC.
Chloromethane	10		8.5	85	70-130
Vinyl Chloride	10		8.8	88	70-130
Bromomethane	10		8.8	88	70-130
Chloroethane	10		8.4	84	70-130
Trichlorofluoromethane	10		9.3	93	70-130
Methylene Chloride	10		9.2	92	70-130
1,1-Dichloroethane	10		9.6	96	70-130
cis-1,2-Dichloroethene	10		9.7	97	70-130
Chloroform	10		9.6	96	70-130
1,1,1-Trichloroethane	10		10	100	70-130
Carbon Tetrachloride	10		9.8	98	70-130
Benzene	10		9.0	90	70-130
1,2-Dichloroethane	10		10	100	70-130
Trichloroethene	10		9.8	98	70-130
1,2-Dichloropropane	10		9.2	92	70-130
cis-1,3-Dichloropropene	10		10	100	70-130
Toluene	10		9.5	95	70-130
trans-1,3-Dichloroprope	10		11	110	70-130
1,1,2-Trichloroethane	10		9.8	98	70-130
Tetrachloroethene	10		8.9	89	70-130
Chlorobenzene	10		8.9	89	70-130
Ethylbenzene	10		9.9	99	70-130
Styrene	10		10	100	70-130
Xylene (m,p)	20		18	90	70-130
Xylene (o)	10		9.3	93	70-130
1,1,2,2-Tetrachloroetha	10		9.3	93	70-130
1,3-Dichlorobenzene	10		9.7	97	70-130
1,4-Dichlorobenzene	10		9.6	96	70-130

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

* Values outside of QC limits

COMMENTS: _____

FORM 3
AIR VOLATILE LAB CONTROL SAMPLE

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 80293

Matrix Spike - STLVT Sample No.: E1_LCS

COMPOUND	SPIKE ADDED (ppbv)	SAMPLE CONCENTRATION (ug/L)	LCS CONCENTRATION (ppbv)	LCS % REC #	QC. LIMITS REC.
1,2-Dichlorobenzene	10		10	100	70-130

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

* Values outside of QC limits

RPD: 0 out of 0 outside limits
Spike Recovery: 0 out of 29 outside limits

COMMENTS: _____

FORM 4
VOLATILE METHOD BLANK SUMMARY

STLVT SAMPLE NO.

ABLKE1

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 80293

Lab File ID: CCB001K Lab Sample ID: ABLKE1

Date Analyzed: 10/30/00 Time Analyzed: 1113

GC Column: DB-1 ID: 0.35 (mm) Heated Purge: (Y/N) N

Instrument ID: W

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

	STLVT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	E1_LCS	E1_LCS	CC010KQ	1041
02	029ACAIA1018	434688	434688	1343
03	029ACA2IA101	434689	434689	1418
04	029ACAEA1018	434690	434690	1504
05				
06				
07				
08				
09				
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COMMENTS:

FORM 5
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 80293

Lab File ID: CC001P BFB Injection Date: 09/26/00

Instrument ID: W BFB Injection Time: 0724

GC Column: DB-1 ID: 0.32 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	19.3
75	30.0 - 66.0% of mass 95	44.0
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	0.2 (0.4)1
174	50.0 - 120.0% of mass 95	67.5
175	4.0 - 9.0% of mass 174	4.8 (7.1)1
176	93.0 - 101.0% of mass 174	64.8 (96.0)1
177	5.0 - 9.0% of mass 176	4.5 (7.0)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	ASTD005	ASTD005	CC005	09/26/00	0814
02	ASTD010	ASTD010	CC010	09/26/00	0844
03	ASTD020	ASTD020	CC020	09/26/00	0915
04	ASTD040	ASTD040	CC040	09/26/00	0948
05	ASTD0005	ASTD0005	CC0005I2	09/26/00	1026
06	Y6_ICVLCS	Y6_ICVLCS	CC010Q	09/26/00	1154
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FORM 5
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 80293

Lab File ID: CC011P BFB Injection Date: 10/30/00

Instrument ID: W BFB Injection Time: 0947

GC Column: DB-1 ID: 0.32 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	21.3
75	30.0 - 66.0% of mass 95	48.0
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.8
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	50.0 - 120.0% of mass 95	67.8
175	4.0 - 9.0% of mass 174	5.0 (7.4)1
176	93.0 - 101.0% of mass 174	65.6 (96.8)1
177	5.0 - 9.0% of mass 176	4.3 (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:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	ASTD010	ASTD010	CC010K	10/30/00	1009
02	E1_LCS	E1_LCS	CC010KQ	10/30/00	1041
03	ABLKE1	ABLKE1	CCB001K	10/30/00	1113
04	029ACAIA1018	434688	434688	10/30/00	1343
05	029ACA2IA101	434689	434689	10/30/00	1418
06	029ACAEA1018	434690	434690	10/30/00	1504
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6A

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 80293

Instrument ID: W Calibration Date(s): 09/26/00 09/26/00

Heated Purge: (Y/N) N Calibration Time(s): 0814 1026

GC Column: DB-1 ID: 0.35 (mm)

LAB FILE ID: RRF0.5=CC0005I2 RRF5 =CC005
RRF10 =CC010 RRF20 =CC020 RRF40 =CC040

	COMPOUND	RRF0.5	RRF5	RRF10	RRF20	RRF40	$\overline{RRF}$	% RSD
*	Chloromethane	0.920	0.665	0.592	0.587	0.540	0.661	22.9*
	Vinyl Chloride	0.929	0.741	0.680	0.667	0.611	0.726	16.9
	Bromomethane	1.306	0.991	0.885	0.781	0.801	0.953	22.5
	Chloroethane	0.552	0.449	0.397	0.398	0.370	0.433	16.7
	Trichlorofluoromethane	3.208	2.202	1.996	1.957	1.850	2.243	24.7
	Methylene Chloride	1.475	0.911	0.840	0.816	0.792	0.967	29.8
*	1,1-Dichloroethane	2.196	1.583	1.408	1.388	1.317	1.578	22.7*
	cis-1,2-Dichloroethene	1.457	1.333	1.195	1.032	1.007	1.205	16.0
	Chloroform	2.793	2.182	1.974	1.767	1.690	2.081	21.2
	1,1,1-Trichloroethane	2.494	2.035	1.837	1.671	1.573	1.922	19.0
	Carbon Tetrachloride	0.586	0.434	0.386	0.398	0.366	0.434	20.4
	Benzene	0.776	0.680	0.600	0.527	0.494	0.615	18.6
	1,2-Dichloroethane	1.809	1.399	1.301	1.174	1.115	1.360	20.2
	Trichloroethene	0.350	0.317	0.272	0.226	0.216	0.276	20.9
	1,2-Dichloropropane	0.300	0.259	0.230	0.171	0.165	0.225	25.8
	cis-1,3-Dichloropropene	0.336	0.325	0.302	0.261	0.260	0.297	11.9
	Toluene	0.468	0.517	0.446	0.362	0.327	0.424	18.4
	trans-1,3-Dichloropropene	0.248	0.216	0.210	0.181	0.187	0.208	12.8
	1,1,2-Trichloroethane	0.307	0.277	0.239	0.170	0.155	0.230	28.6
	Tetrachloroethene	0.417	0.390	0.339	0.336	0.294	0.355	13.7
*	Chlorobenzene	0.753	0.658	0.566	0.505	0.482	0.593	19.0*
	Ethylbenzene	1.050	1.130	0.978	0.779	0.838	0.955	15.2
	Xylene (total)	1.206	1.220	1.065	0.978	0.995	1.093	10.5
	Styrene	0.360	0.508	0.480	0.457	0.449	0.451	12.4
	Xylene (m,p)	0.404	0.412	0.358	0.326	0.333	0.367	10.8
	Xylene (o)	0.397	0.397	0.348	0.327	0.328	0.359	9.8
	1,1,2,2-Tetrachloroethane	0.800	0.677	0.580	0.491	0.515	0.613	20.8
	1,3-Dichlorobenzene	0.624	0.593	0.567	0.553	0.530	0.573	6.4
	1,4-Dichlorobenzene	0.641	0.519	0.475	0.470	0.457	0.512	14.8
	1,2-Dichlorobenzene	0.431	0.458	0.428	0.436	0.419	0.434	3.4

* Compounds with required minimum RRF and maximim %RSD values.
All other compounds must meet a minimim RRF of 0.010.

FORM 7
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 80293

Instrument ID: W Calibration Date: 10/30/00 Time: 1009

Lab File ID: CC010K Init. Calib. Date(s): 09/26/00 09/26/00

Heated Purge: (Y/N) N Init. Calib. Times: 0814 1026

GC Column: DB-1 ID: 0.35 (mm)

COMPOUND	$\overline{RRF}$	RRF10	MIN RRF	%D	MAX %D	
Chloromethane	0.661	0.602	0.1	8.9	30.0	
Vinyl Chloride	0.726	0.683	0.01	5.9	30.0	
Bromomethane	0.953	0.919	0.01	3.6	30.0	
Chloroethane	0.433	0.383	0.01	11.5	30.0	
Trichlorofluoromethane	2.243	2.353	0.01	4.9	30.0	
Methylene Chloride	0.967	0.940	0.01	2.8	30.0	
1,1-Dichloroethane	1.578	1.655	0.1	4.9	30.0	
cis-1,2-Dichloroethene	1.205	1.272	0.01	5.6	30.0	
Chloroform	2.081	2.159	0.01	3.7	30.0	
1,1,1-Trichloroethane	1.922	2.132	0.01	10.9	30.0	
Carbon Tetrachloride	0.434	0.472	0.01	8.8	30.0	
Benzene	0.615	0.604	0.01	1.8	30.0	
1,2-Dichloroethane	1.360	1.502	0.01	10.4	30.0	
Trichloroethene	0.276	0.297	0.01	7.6	30.0	
1,2-Dichloropropane	0.225	0.228	0.01	1.3	30.0	
cis-1,3-Dichloropropene	0.297	0.357	0.01	20.2	30.0	
Toluene	0.424	0.446	0.01	5.2	30.0	
trans-1,3-Dichloropropene	0.208	0.272	0.01	30.8	30.0	<-
1,1,2-Trichloroethane	0.230	0.248	0.01	7.8	30.0	
Tetrachloroethene	0.355	0.345	0.01	2.8	30.0	
Chlorobenzene	0.593	0.576	0.3	2.9	30.0	
Ethylbenzene	0.955	1.027	0.01	7.5	30.0	
Xylene (total)	1.093	1.118	0.01	2.3	30.0	
Styrene	0.451	0.495	0.01	9.8	30.0	
Xylene (m,p)	0.367	0.374	0.01	1.9	30.0	
Xylene (o)	0.359	0.370	0.01	3.1	30.0	
1,1,2,2-Tetrachloroethane	0.613	0.616	0.01	0.5	30.0	
1,3-Dichlorobenzene	0.573	0.602	0.01	5.1	30.0	
1,4-Dichlorobenzene	0.512	0.513	0.01	0.2	30.0	
1,2-Dichlorobenzene	0.434	0.473	0.01	9.0	30.0	

FORM 8
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 80293

Lab File ID (Standard): CC010K Date Analyzed: 10/30/00

Instrument ID: W Time Analyzed: 1009

GC Column: DB-1 ID: 0.35 (mm) Heated Purge: (Y/N) N

		IS1 (BCM) AREA	#	RT	#	IS2 (CBZ) AREA	#	RT	#	IS3 (DFB) AREA	#	RT	#
	12 HOUR STD	263512		7.62		1344236		11.84		1238524		8.96	
	UPPER LIMIT	632429		7.95		3226166		12.17		2972458		9.29	
	LOWER LIMIT	105405		7.29		537694		11.51		495410		8.63	
	STLVT SAMPLE NO.												
01	E1_LCS	263535		7.62		1343356		11.84		1250193		8.96	
02	ABLKE1	271817		7.59		1356799		11.84		1273746		8.94	
03	029ACAIA1018	253293		7.64		1242372		11.84		1200279		8.97	
04	029ACA2IA101	266771		7.62		1313754		11.84		1243992		8.96	
05	029ACAEA1018	246720		7.61		1202281		11.84		1168255		8.96	
06													
07													
08													
09													
10													
11													
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IS1 (BCM) = Bromochloromethane
IS2 (CBZ) = Chlorobenzene-d5
IS3 (DFB) = 1,4-Difluorobenzene

AREA UPPER LIMIT = +140% of internal standard area
AREA LOWER LIMIT = - 60% of internal standard area
RT UPPER LIMIT = + 0.33 minutes of internal standard RT
RT LOWER LIMIT = - 0.33 minutes of internal standard RT

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

SEVERN
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SERVICES

Severn Trent Laboratories, Inc.

NARRATIVE

CCI NAVY RAC PM
NOV 10 2000

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SERVICES

STL Burlington
208 South Park Drive
Suite 1
Colchester, VT 05446

Tel: 802 655 1203
Fax: 802 655 1248
www.stl-inc.com

November 6, 2000

Mr. David Fuller
Accura Analytical Laboratories
6017 Financial Drive
Norcross, GA 30071

Re: Laboratory Project No. 20031
Case: 20031; SDG: 80293

Dear Mr. Fuller:

Enclosed are the analytical results of samples received intact by Severn Trent Laboratories on October 23, 2000. Laboratory numbers have been assigned and designated as follows:

Lab ID	Client Sample ID	Sample Date	Sample Matrix
	Received: 10/23/00	ETR No: 80293	
434688	029ACAIA10180005	10/18/00	Air
434689	029ACA2IA10180005	10/18/00	Air
434690	029ACAEA10180005	10/18/00	Air

Method TO-14A Modified-Volatile Organics;
Please note that due to a limitation of characters inherent in the reporting software, some characters of the client identification above were truncated.

The laboratory noted no exceptions to method quality control requirements for this analytical work.

If there are any questions regarding this submittal, please contact Ron Pentkowski at (802) 655-1203.

This report shall not be reproduced, except in full, without the written approval of the laboratory. This report is sequentially numbered starting with page 001 and ending with page 96.

0001-A

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I certify that this package is in compliance with the NELAC requirements, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Director or his designee, as verified by the following signature.

Sincerely,

Christopher A. Ouellette
Laboratory Director

RAP/rst
Enclosure

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The following Qualifiers may be used when reporting any Organic parameters analyzed by Gas Chromatography/mass Spectometry (GCMS). Any additional qualifiers used in the reports will be described in the case narrative. These flags are based on the EPA Contract Laboratory Program statement of work.

GC/MS Qualifiers

A- The reported Tentatively Identified Compound (TIC) is a suspected Aldol-condensation product.

B- The reported analyte was detected in the associated method blank as well as the sample.

D - This flag identifies all compounds identified in an analysis at a secondary dilution factor. This flag alerts data users that any discrepancies between the concentrations reported for the dilutions may be due to dilution of the sample or extract. It additionally indicates that spike recoveries may have been diluted below quantifiable levels.

E- Compound quantitation is above the instrument's calibration range for this analysis.

J - Indicates an estimated value. This flag is used when the result is less than the reporting limit, but > ½ reporting limit.

U- Indicates compound was analyzed for but not detected above the reporting limit.

X,Y,Z - Laboratory defined flags. These flags must be fully described, and such description attached to the Sample Data Summary Package and the case Narrative. Begin by using "X" and go on to "Y" as necessary. These flags may also be used to combine several flags, as needed.

115 Perimeter Center Place, Suite 700
Atlanta GA 30346-1278
Tel No (770) 604-9182 , Fax No (770) 604-9282

CHAIN-OF-CUSTODY RECORD

COC NUMBER
154282-05

PROJECT NAME	PROJECT NUMBER	LAB NAME AND CONTACT	FAX AND MAIL REPORTS/EDD TO RECIPIENT 1 (Name and Company)	RECIPIENT 1 (Address, Tel No , and Fax No)
N.A.S Cecil Field 103rd Street	154282	Severn Trent Laboratories/ Ron Pentkowski	Dave Accura Analytical Laboratory	6017 Financial Drive Norcross, GA 30071 (770) 449-8800 Fax:(770) 449-5477
PROJECT PHASE/SITE/TASK	CTO OR DO NUMBER	LAB PO NUMBER	FAX AND MAIL REPORTS/EDD TO RECIPIENT 2 (Name and Company)	RECIPIENT 2 (Address, Tel No , and Fax No)
103rd Street Monthly Air	0029	1760	David Garrity / J.A Jones Env. Services	6219 Authority Ave. Building 1 Jacksonville, FL 32215 (904) 7774812 FAX: (904) 7774262
PROJECT CONTACT	PROJECT TEL NO AND FAX NO	LAB TEL NO AND FAX NO	FAX AND MAIL REPORTS/EDD TO RECIPIENT 3 (Name and Company)	RECIPIENT 3 (Address, Tel No , and Fax No)
David Garrity	Ph:(904)777-4812 Fax:(904) 777-4262	Ph:(802) 655-1203	Jeff Wilmoth / CH2M Hill Constuctors, Inc.	115 Perimeter Center Place, N.E. Suite 700 Atlanta, GA 30346 (770)604-9182 Ext.561 FAX:604-9282

ITEM	SAMPLE IDENTIFIER	SAMPLE DESCRIPTION/LOCATION	MATRIX (see codes on back)	DATE COLLECTED	TIME COLLECTED	DATA PKG LEVEL (see codes on back)	TAT (calendar days)	ANALYSES REQUIRED (Include Method Numbers) Volatiles by 18 / TO 14	SAMPLE TYPE (see codes on back)	COMMENTS/ SCREENING READINGS	LAB ID
1	029-ACA-I-A-1018-00-05	Pre Carbon Units	A	10/18/00	11:05	III/B	7	1	Grab	Summa Canister	
2	029-ACA2-I-A-1018-00-05	Mid Carbon Units	A	10/18/00	11:10	III/B	7	1	Grab	Summa Canister	
3	029-ACA-E-A-1018-00-05	Post Carbon Units	A	10/18/00	11:15	III/B	7	1	Grab	Summa Canister	
4											
5											
6											
7											
8											
9											
10											

SAMPLER(S) AND COMPANY (please print)
Randy Dumaop / David Garrity
J.A. Jones Environmental Services

COURIER AND SHIPPING NUMBER
Federal Express TRK# 790384362472

SAMPLES TEMPERATURE AND CONDITION UPON RECEIPT

RELINQUISHED BY Printed Name and Signature	DATE	TIME	RECEIVED BY Printed Name and Signature	DATE	TIME
R.Dumaop	10/19/00	11:00	Federal Express	10/19/00	11:00
Printed Name and Signature			Printed Name and Signature		
Printed Name and Signature			Jack L Dustin	10/23/00	0930
			Printed Name and Signature		

SEVERN TRENT SERVICES

Severn Trent Laboratories, Inc.

METHOD TO-14A
VOLATILE ORGANIC ANALYSIS

QC SUMMARY

FORM 3
AIR VOLATILE LAB CONTROL SAMPLE

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 80293

Matrix Spike - STLVT Sample No.: Y6_ICVLCS

COMPOUND	SPIKE ADDED (ppbv)	SAMPLE CONCENTRATION (ug/L)	LCS CONCENTRATION (ppbv)	LCS % REC #	QC. LIMITS REC.
Chloromethane	10		9.3	93	70-130
Vinyl Chloride	10		9.5	95	70-130
Bromomethane	10		10	100	70-130
Chloroethane	10		10	100	70-130
Trichlorofluoromethane	10		10	100	70-130
Methylene Chloride	10		9.5	95	70-130
1,1-Dichloroethane	10		9.8	98	70-130
cis-1,2-Dichloroethene	10		9.8	98	70-130
Chloroform	10		9.7	97	70-130
1,1,1-Trichloroethane	10		9.6	96	70-130
Carbon Tetrachloride	10		9.7	97	70-130
Benzene	10		9.8	98	70-130
1,2-Dichloroethane	10		9.7	97	70-130
Trichloroethene	10		10	100	70-130
1,2-Dichloropropane	10		10	100	70-130
cis-1,3-Dichloropropene	10		11	110	70-130
Toluene	10		10	100	70-130
trans-1,3-Dichloroprope	10		10	100	70-130
1,1,2-Trichloroethane	10		11	110	70-130
Tetrachloroethene	10		9.0	90	70-130
Chlorobenzene	10		9.4	94	70-130
Ethylbenzene	10		10	100	70-130
Styrene	10		10	100	70-130
Xylene (m,p)	20		19	95	70-130
Xylene (o)	10		9.6	96	70-130
1,1,2,2-Tetrachloroetha	10		9.8	98	70-130
1,3-Dichlorobenzene	10		9.8	98	70-130
1,4-Dichlorobenzene	10		9.7	97	70-130

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

* Values outside of QC limits

COMMENTS: _____

FORM 3
AIR VOLATILE LAB CONTROL SAMPLE

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 80293

Matrix Spike - STLVT Sample No.: Y6_ICVLCS

COMPOUND	SPIKE ADDED (ppbv)	SAMPLE CONCENTRATION (ug/L)	LCS CONCENTRATION (ppbv)	LCS % REC #	QC. LIMITS REC.
1,2-Dichlorobenzene	10		10	100	70-130

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

* Values outside of QC limits

RPD: 0 out of 0 outside limits
Spike Recovery: 0 out of 29 outside limits

COMMENTS: _____

FORM 3
AIR VOLATILE LAB CONTROL SAMPLE

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 80293

Matrix Spike - STLVT Sample No.: E1_LCS

COMPOUND	SPIKE ADDED (ppbv)	SAMPLE CONCENTRATION (ug/L)	LCS CONCENTRATION (ppbv)	LCS % REC #	QC. LIMITS REC.
Chloromethane	10		8.5	85	70-130
Vinyl Chloride	10		8.8	88	70-130
Bromomethane	10		8.8	88	70-130
Chloroethane	10		8.4	84	70-130
Trichlorofluoromethane	10		9.3	93	70-130
Methylene Chloride	10		9.2	92	70-130
1,1-Dichloroethane	10		9.6	96	70-130
cis-1,2-Dichloroethene	10		9.7	97	70-130
Chloroform	10		9.6	96	70-130
1,1,1-Trichloroethane	10		10	100	70-130
Carbon Tetrachloride	10		9.8	98	70-130
Benzene	10		9.0	90	70-130
1,2-Dichloroethane	10		10	100	70-130
Trichloroethene	10		9.8	98	70-130
1,2-Dichloropropane	10		9.2	92	70-130
cis-1,3-Dichloropropene	10		10	100	70-130
Toluene	10		9.5	95	70-130
trans-1,3-Dichloroprope	10		11	110	70-130
1,1,2-Trichloroethane	10		9.8	98	70-130
Tetrachloroethene	10		8.9	89	70-130
Chlorobenzene	10		8.9	89	70-130
Ethylbenzene	10		9.9	99	70-130
Styrene	10		10	100	70-130
Xylene (m,p)	20		18	90	70-130
Xylene (o)	10		9.3	93	70-130
1,1,2,2-Tetrachloroetha	10		9.3	93	70-130
1,3-Dichlorobenzene	10		9.7	97	70-130
1,4-Dichlorobenzene	10		9.6	96	70-130

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

* Values outside of QC limits

COMMENTS: _____

FORM 3
AIR VOLATILE LAB CONTROL SAMPLE

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 80293

Matrix Spike - STLVT Sample No.: E1_LCS

COMPOUND	SPIKE ADDED (ppbv)	SAMPLE CONCENTRATION (ug/L)	LCS CONCENTRATION (ppbv)	LCS % REC #	QC. LIMITS REC.
1,2-Dichlorobenzene	10		10	100	70-130

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

* Values outside of QC limits

RPD: 0 out of 0 outside limits
Spike Recovery: 0 out of 29 outside limits

COMMENTS: _____

FORM 4
VOLATILE METHOD BLANK SUMMARY

STLVT SAMPLE NO.

ABLKE1

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 80293

Lab File ID: CCB001K Lab Sample ID: ABLKE1

Date Analyzed: 10/30/00 Time Analyzed: 1113

GC Column: DB-1 ID: 0.35 (mm) Heated Purge: (Y/N) N

Instrument ID: W

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

	STLVT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	E1_LCS	E1_LCS	CC010KQ	1041
02	029ACAIA1018	434688	434688	1343
03	029ACA2IA101	434689	434689	1418
04	029ACAEA1018	434690	434690	1504
05				
06				
07				
08				
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COMMENTS:

FORM 5
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 80293

Lab File ID: CC001P BFB Injection Date: 09/26/00

Instrument ID: W BFB Injection Time: 0724

GC Column: DB-1 ID: 0.32 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	19.3
75	30.0 - 66.0% of mass 95	44.0
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	0.2 (0.4)1
174	50.0 - 120.0% of mass 95	67.5
175	4.0 - 9.0% of mass 174	4.8 (7.1)1
176	93.0 - 101.0% of mass 174	64.8 (96.0)1
177	5.0 - 9.0% of mass 176	4.5 (7.0)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	ASTD005	ASTD005	CC005	09/26/00	0814
02	ASTD010	ASTD010	CC010	09/26/00	0844
03	ASTD020	ASTD020	CC020	09/26/00	0915
04	ASTD040	ASTD040	CC040	09/26/00	0948
05	ASTD0005	ASTD0005	CC0005I2	09/26/00	1026
06	Y6_ICVLCS	Y6_ICVLCS	CC010Q	09/26/00	1154
07					
08					
09					
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22					

FORM 5
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 80293

Lab File ID: CC011P BFB Injection Date: 10/30/00

Instrument ID: W BFB Injection Time: 0947

GC Column: DB-1 ID: 0.32 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	21.3
75	30.0 - 66.0% of mass 95	48.0
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.8
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	50.0 - 120.0% of mass 95	67.8
175	4.0 - 9.0% of mass 174	5.0 (7.4)1
176	93.0 - 101.0% of mass 174	65.6 (96.8)1
177	5.0 - 9.0% of mass 176	4.3 (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:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	ASTD010	ASTD010	CC010K	10/30/00	1009
02	E1_LCS	E1_LCS	CC010KQ	10/30/00	1041
03	ABLKE1	ABLKE1	CCB001K	10/30/00	1113
04	029ACAIA1018	434688	434688	10/30/00	1343
05	029ACA2IA101	434689	434689	10/30/00	1418
06	029ACAEA1018	434690	434690	10/30/00	1504
07					
08					
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21					
22					

FORM 8
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 80293

Lab File ID (Standard): CC010K Date Analyzed: 10/30/00

Instrument ID: W Time Analyzed: 1009

GC Column: DB-1 ID: 0.35 (mm) Heated Purge: (Y/N) N

		IS1 (BCM) AREA #	RT #	IS2 (CBZ) AREA #	RT #	IS3 (DFB) AREA #	RT #
	12 HOUR STD	263512	7.62	1344236	11.84	1238524	8.96
	UPPER LIMIT	632429	7.95	3226166	12.17	2972458	9.29
	LOWER LIMIT	105405	7.29	537694	11.51	495410	8.63
	STLVT SAMPLE NO.						
01	E1_LCS	263535	7.62	1343356	11.84	1250193	8.96
02	ABLKE1	271817	7.59	1356799	11.84	1273746	8.94
03	029ACAIA1018	253293	7.64	1242372	11.84	1200279	8.97
04	029ACA2IA101	266771	7.62	1313754	11.84	1243992	8.96
05	029ACAEA1018	246720	7.61	1202281	11.84	1168255	8.96
06							
07							
08							
09							
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21							
22							

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

AREA UPPER LIMIT = +140% of internal standard area
AREA LOWER LIMIT = - 60% of internal standard area
RT UPPER LIMIT = + 0.33 minutes of internal standard RT
RT LOWER LIMIT = - 0.33 minutes of internal standard RT

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

SEVERN TRENT SERVICES

Severn Trent Laboratories, Inc.

METHOD TO-14A
VOLATILE ORGANIC ANALYSIS

SUPPORTIVE DOCUMENTATION

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

ACCANA SAMPLE NO.

029ACA2IA101

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 80293

Matrix: (soil/water) AIR Lab Sample ID: 434689

Sample wt/vol: 200 (g/mL) ML Lab File ID: 434689

Level: (low/med) LOW Date Received: 10/23/00

% Moisture: not dec. _____ Date Analyzed: 10/30/00

GC Column: DB-1 ID: 0.35 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) PPBV	Q
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl Chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-09-2	Methylene Chloride	1.2	
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
56-23-5	Carbon Tetrachloride	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-88-3	Toluene	0.50	U
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
1330-20-7	Xylene (total)	0.50	U
100-42-5	Styrene	0.50	U
1330-20-7	Xylene (m,p)	0.50	U
95-47-6	Xylene (o)	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

ACCANA SAMPLE NO.

029ACA2IA101

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 80293

Matrix: (soil/water) AIR Lab Sample ID: 434689

Sample wt/vol: 200 (g/mL) ML Lab File ID: 434689

Level: (low/med) LOW Date Received: 10/23/00

% Moisture: not dec. _____ Date Analyzed: 10/30/00

GC Column: DB-1 ID: 0.35 (mm) Dilution Factor: 1.0

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

Number TICs found: 0

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

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.					
2.					
3.					
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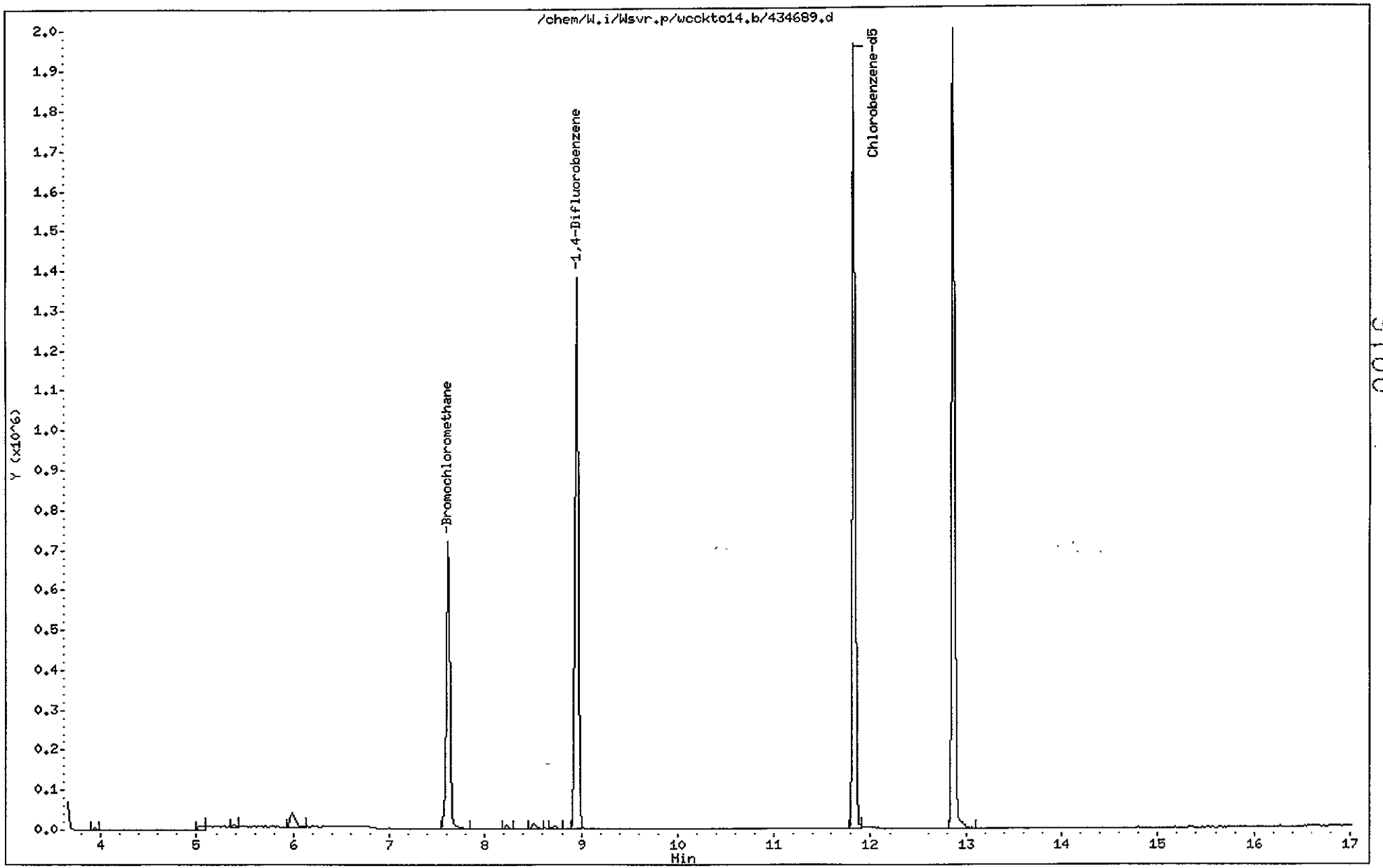
29.					
30.					

Data File: /chem/W.i/Wsvr.p/wcckto14.b/434689.d
Date : 30-OCT-2000 14:18
Client ID: 029ACA2IA101
Sample Info: 434689;029ACA2IA1018;80293;1030E1
Purge Volume: 200.0
Column phase: DB-1

Instrument: W.i
Operator: GMM
Column diameter: 0.35



0016

STL Burlington

AIR TOXICS QUANTITATION REPORT

Data file : /chem/W.i/Wsvr.p/wcckto14.b/434689.d
Lab Smp Id: 434689 Client Smp ID: 029ACA2IA101
Inj Date : 30-OCT-2000 14:18
Operator : GMM Inst ID: W.i
Smp Info : 434689;029ACA2IA1018;80293;1030E1
Misc Info :
Comment :
Method : /chem/W.i/Wsvr.p/wcckto14.b/ato14.m
Meth Date : 06-Nov-2000 12:30 cmp Quant Type: ISTD
Cal Date : 26-SEP-2000 10:26 Cal File: cc0005i2.d
Als bottle: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ACCANA2.sub
Target Version: 3.50
Processing Host: chemsvr4

Concentration Formula: Amt * DF * X* Uf/Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
X	200.00000	method volume factor
Uf	1.00000	ng unit correction factor
Vo	200.00000	Sample Volume purged (mL)

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)
2	Chloromethane	50	Compound Not Detected.					
4	Vinyl Chloride	62	Compound Not Detected.					
5	Bromomethane	94	Compound Not Detected.					
6	Chloroethane	64	Compound Not Detected.					
7	Trichlorofluoromethane	101	Compound Not Detected.					
9	Methylene Chloride	49	5.983	6.089	(0.785)	31360	1.21585	1.2
11	1,1-Dichloroethane	63	Compound Not Detected.					
12	cis-1,2-Dichloroethene	61	Compound Not Detected.					
* 13	Bromochloromethane	128	7.622	7.698	(1.000)	266771	10.0000	
14	Chloroform	83	Compound Not Detected.					
15	1,2-Dichloroethane	62	Compound Not Detected.					
16	1,1,1-Trichloroethane	97	Compound Not Detected.					
17	Benzene	78	Compound Not Detected.					
18	Carbon Tetrachloride	117	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)
*	19 1,4-Difluorobenzene	114	8.957	9.003	(1.000)	1243992	10.0000	
	20 1,2-Dichloropropane	63	Compound Not Detected.					
	21 Trichloroethene	95	Compound Not Detected.					
	22 cis-1,3-Dichloropropene	75	Compound Not Detected.					
	23 trans-1,3-Dichloropropene	75	Compound Not Detected.					
	24 1,1,2-Trichloroethane	83	Compound Not Detected.					
	25 Toluene	92	Compound Not Detected.					
	27 Tetrachloroethene	166	Compound Not Detected.					
*	28 Chlorobenzene-d5	117	11.841	11.841	(1.000)	1313754	10.0000	
	29 Chlorobenzene	112	Compound Not Detected.					
	30 Ethylbenzene	91	Compound Not Detected.					
	31 Xylene (m,p)	106	Compound Not Detected.					
	32 Styrene	104	Compound Not Detected.					
M	33 Xylene (total)	106	Compound Not Detected.					
	34 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					
	35 Xylene (o)	106	Compound Not Detected.					
	38 1,3-Dichlorobenzene	146	Compound Not Detected.					
	39 1,4-Dichlorobenzene	146	Compound Not Detected.					
	40 1,2-Dichlorobenzene	146	Compound Not Detected.					

STL Burlington

AIR TOXICS QUANTITATION REPORT

Data file : /chem/W.i/Wsvr.p/wcckto14.b/434689.d
Lab Smp Id: 434689 Client Smp ID: 029ACA2IA101
Inj Date : 30-OCT-2000 14:18
Operator : GMM Inst ID: W.i
Smp Info : 434689;029ACA2IA1018;80293;1030E1
Misc Info :
Comment :
Method : /chem/W.i/Wsvr.p/wcckto14.b/ato14.m
Meth Date : 05-Nov-2000 15:37 cmp Quant Type: ISTD
Cal Date : 26-SEP-2000 10:26 Cal File: cc0005i2.d
Als bottle: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ACCANA.sub
Target Version: 3.50
Processing Host: chemsvr4

- NO TENTATIVELY IDENTIFIED COMPOUNDS -

Data File: /chem/W.i/Wsvr.p/wockto14.b/434689.d

Date : 30-OCT-2000 14:18

Client ID: 029ACA2IA101

Instrument: W.i

Sample Info: 434689;029ACA2IA1018;80293;1030E1

Purge Volume: 200.0

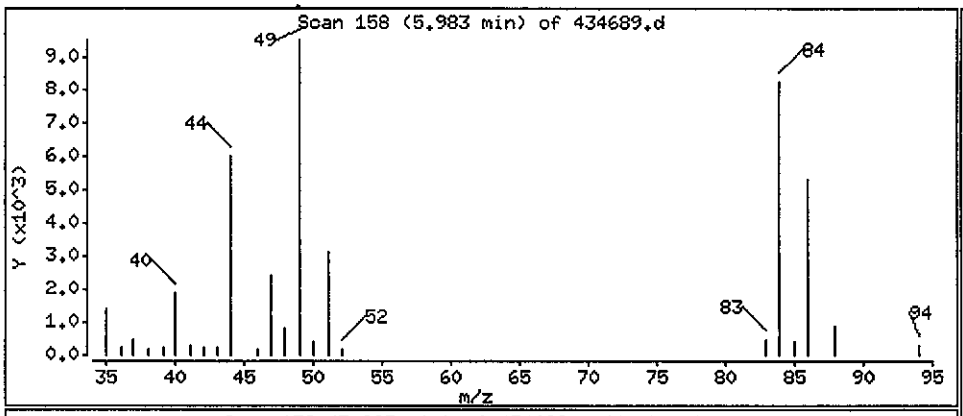
Operator: GMM

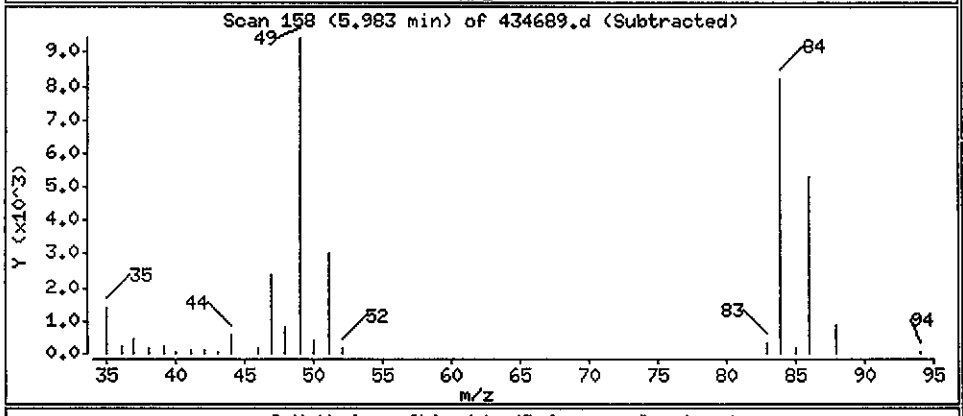
Column phase: DB-1

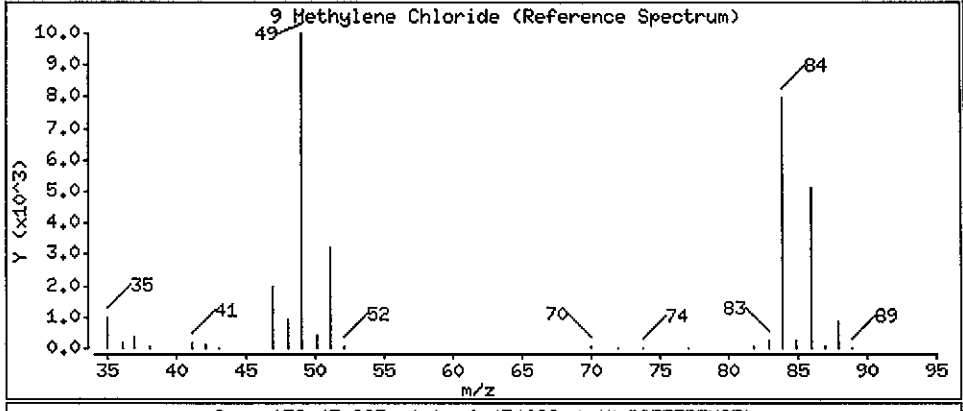
Column diameter: 0.35

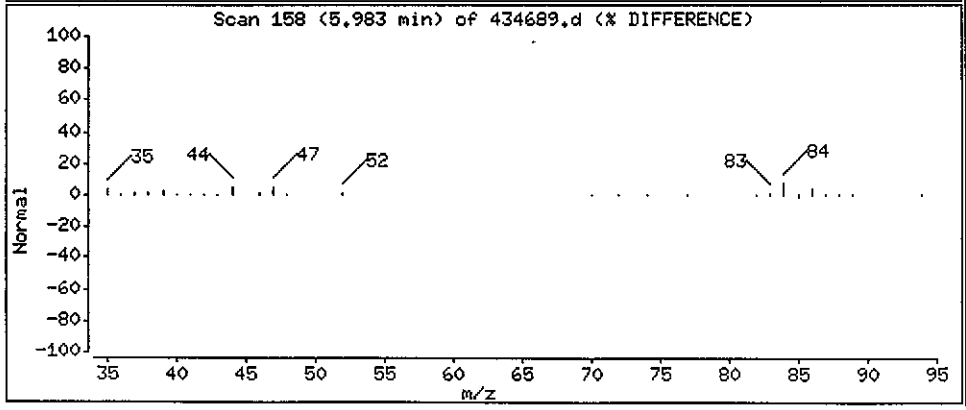
9 Methylene Chloride

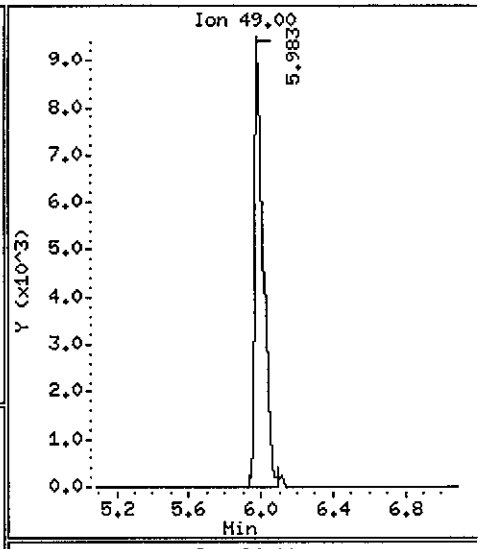
Concentration: 1.2 ppbv

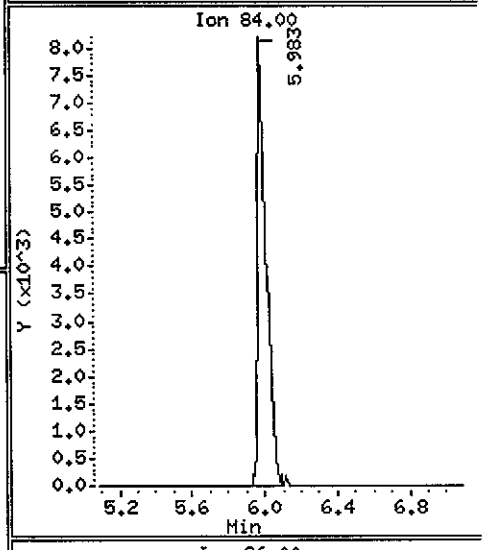


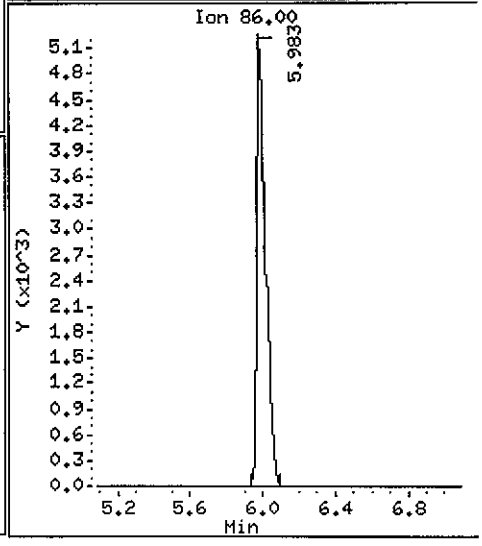












FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

ACCANA SAMPLE NO.

029ACAEA1018

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 80293

Matrix: (soil/water) AIR Lab Sample ID: 434690

Sample wt/vol: 200 (g/mL) ML Lab File ID: 434690

Level: (low/med) LOW Date Received: 10/23/00

% Moisture: not dec. _____ Date Analyzed: 10/30/00

GC Column: DB-1 ID: 0.35 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) PPBV	Q
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl Chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-09-2	Methylene Chloride	0.88	
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
56-23-5	Carbon Tetrachloride	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-88-3	Toluene	0.50	U
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
1330-20-7	Xylene (total)	0.50	U
100-42-5	Styrene	0.50	U
1330-20-7	Xylene (m,p)	0.50	U
95-47-6	Xylene (o)	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

ACCANA SAMPLE NO.

029ACAEA1018

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 80293

Matrix: (soil/water) AIR Lab Sample ID: 434690

Sample wt/vol: 200 (g/mL) ML Lab File ID: 434690

Level: (low/med) LOW Date Received: 10/23/00

% Moisture: not dec. _____ Date Analyzed: 10/30/00

GC Column: DB-1 ID: 0.35 (mm) Dilution Factor: 1.0

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

Number TICs found: 0

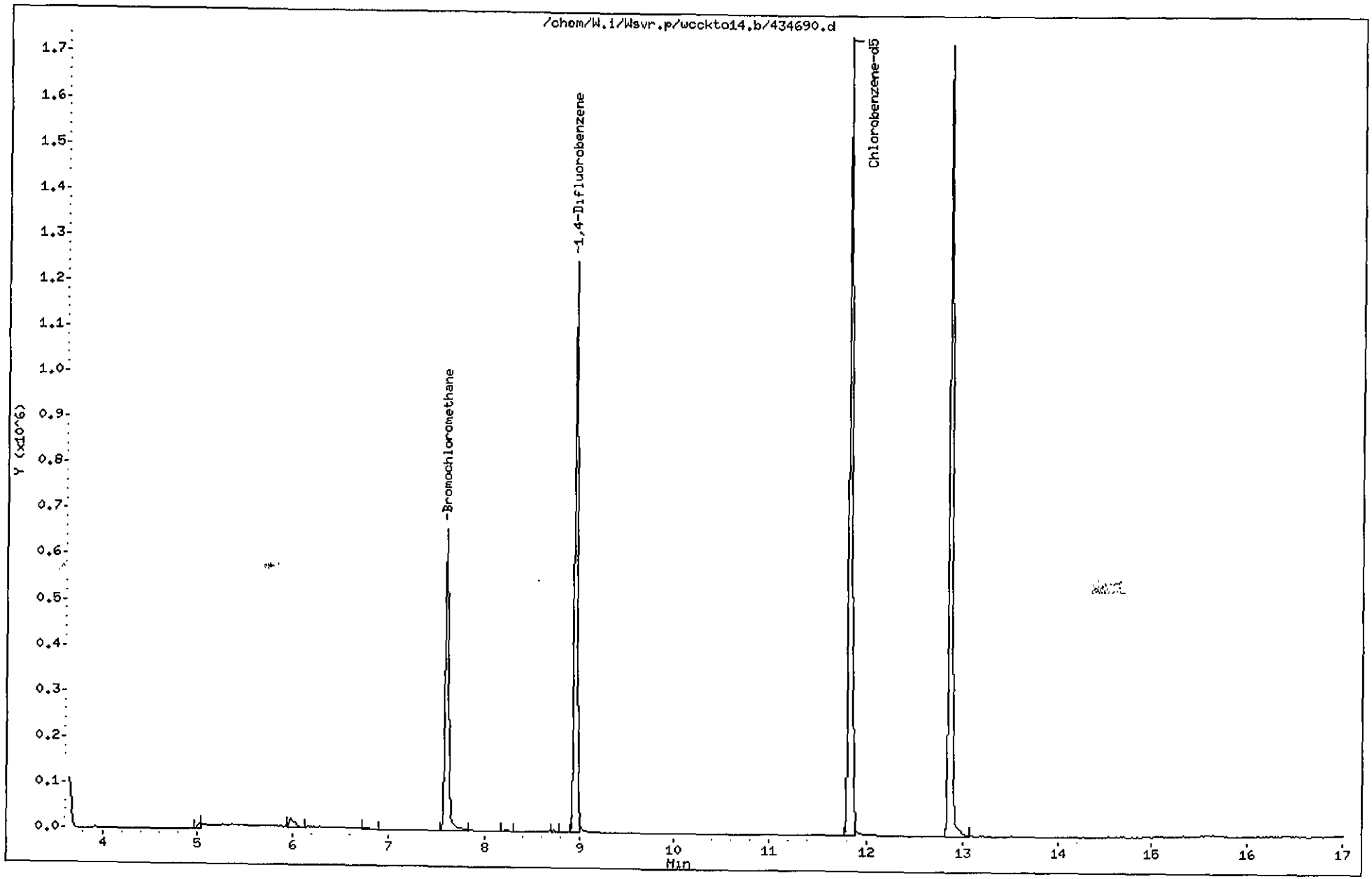
CONCENTRATION UNITS:
(ug/L or ug/Kg) ppbv

	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.					

Data File: /chem/W.1/Wsvr.p/wcckto14.b/434690.d
Date : 30-OCT-2000 15:04
Client ID: 029ACAEA1018
Sample Info: 434690;029ACAEA1018;80293;1030E1
Purge Volume: 200.0
Column phase: DB-1

Instrument: W.1

Operator: GHM
Column diameter: 0.35



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STL Burlington

AIR TOXICS QUANTITATION REPORT

Data file : /chem/W.i/Wsvr.p/wcckto14.b/434690.d
Lab Smp Id: 434690 Client Smp ID: 029ACAEA1018
Inj Date : 30-OCT-2000 15:04
Operator : GMM Inst ID: W.i
Smp Info : 434690;029ACAEA1018;80293;1030E1
Misc Info :
Comment :
Method : /chem/W.i/Wsvr.p/wcckto14.b/ato14.m
Meth Date : 06-Nov-2000 12:30 cmp Quant Type: ISTD
Cal Date : 26-SEP-2000 10:26 Cal File: cc0005i2.d
Als bottle: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ACCANA2.sub
Target Version: 3.50
Processing Host: chemsvr4

Concentration Formula: Amt * DF * X* Uf/Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
X	200.00000	method volume factor
Uf	1.00000	ng unit correction factor
Vo	200.00000	Sample Volume purged (mL)

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	FINAL (ppbv)
2	Chloromethane	50	Compound Not Detected.					
4	Vinyl Chloride	62	Compound Not Detected.					
5	Bromomethane	94	Compound Not Detected.					
6	Chloroethane	64	Compound Not Detected.					
7	Trichlorofluoromethane	101	Compound Not Detected.					
9	Methylene Chloride	49	5.982	6.089	(0.786)	20880	0.87532	0.88
11	1,1-Dichloroethane	63	Compound Not Detected.					
12	cis-1,2-Dichloroethene	61	Compound Not Detected.					
* 13	Bromochloromethane	128	7.606	7.698	(1.000)	246720	10.0000	
14	Chloroform	83	Compound Not Detected.					
15	1,2-Dichloroethane	62	Compound Not Detected.					
16	1,1,1-Trichloroethane	97	Compound Not Detected.					
17	Benzene	78	Compound Not Detected.					
18	Carbon Tetrachloride	117	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)
*	19 1,4-Difluorobenzene	114	8.956	9.003	(1.000)	1168255	10.0000	
	20 1,2-Dichloropropane	63	Compound Not Detected.					
	21 Trichloroethene	95	Compound Not Detected.					
	22 cis-1,3-Dichloropropene	75	Compound Not Detected.					
	23 trans-1,3-Dichloropropene	75	Compound Not Detected.					
	24 1,1,2-Trichloroethane	83	Compound Not Detected.					
	25 Toluene	92	Compound Not Detected.					
	27 Tetrachloroethene	166	Compound Not Detected.					
*	28 Chlorobenzene-d5	117	11.840	11.841	(1.000)	1202281	10.0000	
	29 Chlorobenzene	112	Compound Not Detected.					
	30 Ethylbenzene	91	Compound Not Detected.					
	31 Xylene (m,p)	106	Compound Not Detected.					
	32 Styrene	104	Compound Not Detected.					
M	33 Xylene (total)	106	Compound Not Detected.					
	34 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					
	35 Xylene (o)	106	Compound Not Detected.					
	38 1,3-Dichlorobenzene	146	Compound Not Detected.					
	39 1,4-Dichlorobenzene	146	Compound Not Detected.					
	40 1,2-Dichlorobenzene	146	Compound Not Detected.					

STL Burlington

AIR TOXICS QUANTITATION REPORT

Data file : /chem/W.i/Wsvr.p/wcckto14.b/434690.d
Lab Smp Id: 434690 Client Smp ID: 029ACAEA1018
Inj Date : 30-OCT-2000 15:04
Operator : GMM Inst ID: W.i
Smp Info : 434690;029ACAEA1018;80293;1030E1
Misc Info :
Comment :
Method : /chem/W.i/Wsvr.p/wcckto14.b/ato14.m
Meth Date : 05-Nov-2000 15:37 cmp Quant Type: ISTD
Cal Date : 26-SEP-2000 10:26 Cal File: cc0005i2.d
Als bottle: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ACCANA.sub
Target Version: 3.50
Processing Host: chemsvr4

- NO TENTATIVELY IDENTIFIED COMPOUNDS -

Data File: /chem/W.i/Wsvr.p/wcckto14.b/434690.d

Date : 30-OCT-2000 15:04

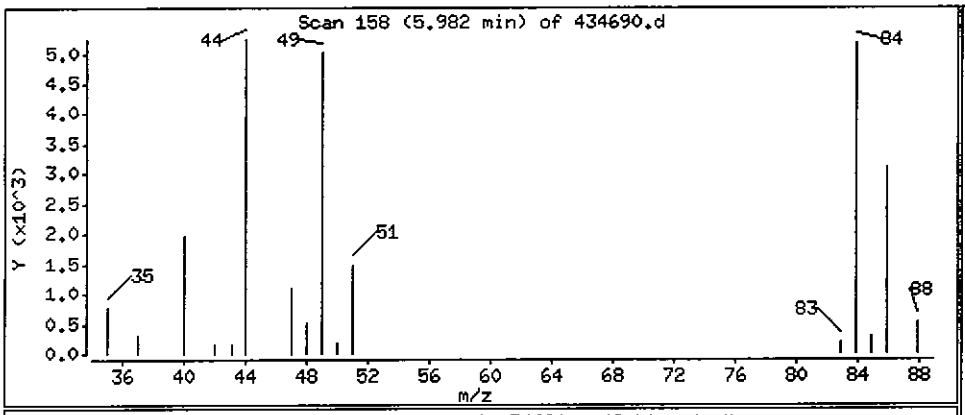
Client ID: 029ACAEA1018 Instrument: W.i

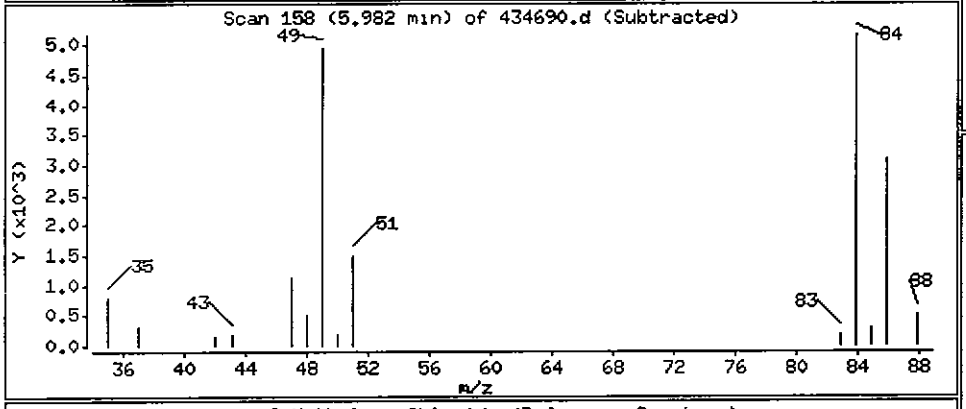
Sample Info: 434690;029ACAEA1018;80293;1030E1

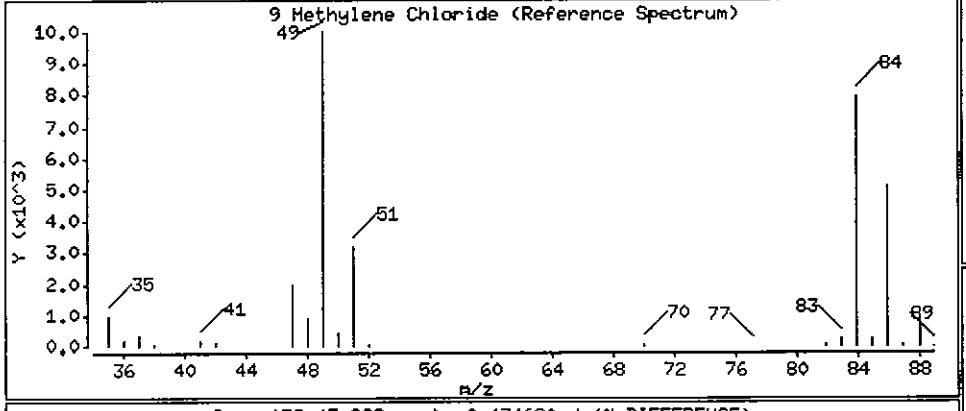
Purge Volume: 200.0 Operator: GMM

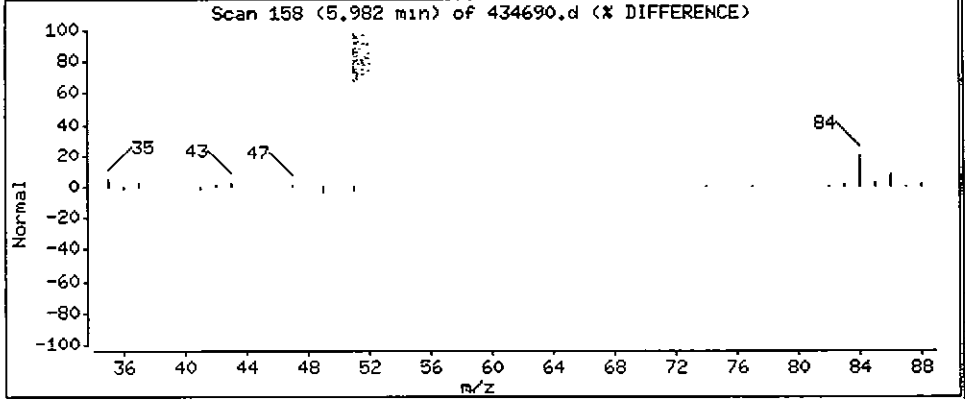
Column phase: DB-1 Column diameter: 0.35

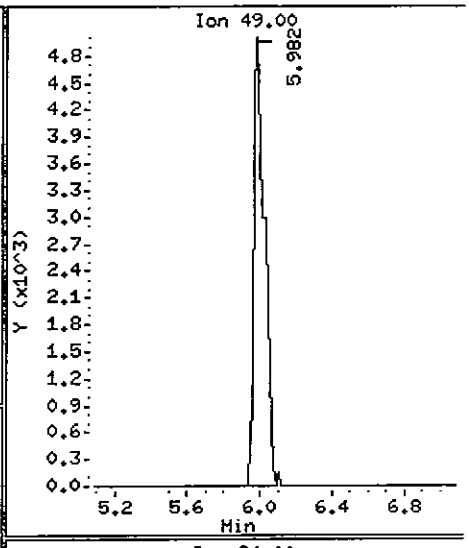
9 Methylene Chloride Concentration: 0.88 ppbv

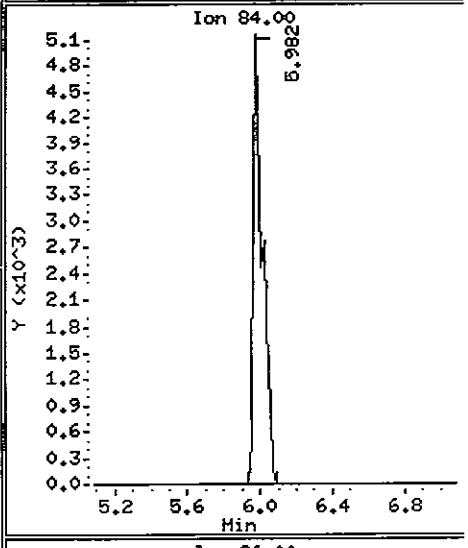


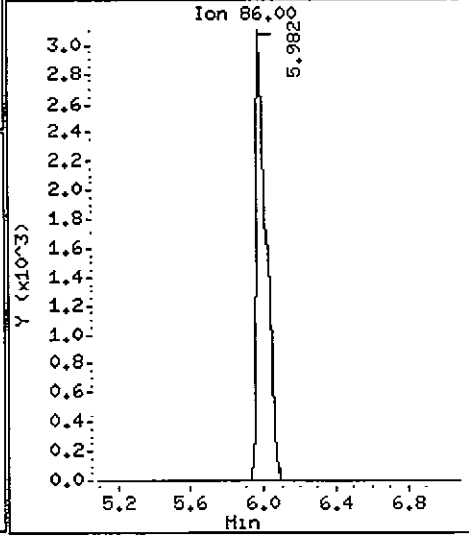












FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

ACCANA SAMPLE NO.

029ACAIA1018

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 80293

Matrix: (soil/water) AIR Lab Sample ID: 434688

Sample wt/vol: 200 (g/mL) ML Lab File ID: 434688

Level: (low/med) LOW Date Received: 10/23/00

% Moisture: not dec. _____ Date Analyzed: 10/30/00

GC Column: DB-1 ID: 0.35 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) PPBV	Q
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl Chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-09-2	Methylene Chloride	0.94	
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
56-23-5	Carbon Tetrachloride	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-88-3	Toluene	0.50	U
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
1330-20-7	Xylene (total)	0.50	U
100-42-5	Styrene	0.50	U
1330-20-7	Xylene (m,p)	0.50	U
95-47-6	Xylene (o)	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

ACCANA SAMPLE NO.

029ACAIA1018

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 80293

Matrix: (soil/water) AIR Lab Sample ID: 434688

Sample wt/vol: 200 (g/mL) ML Lab File ID: 434688

Level: (low/med) LOW Date Received: 10/23/00

% Moisture: not dec. _____ Date Analyzed: 10/30/00

GC Column: DB-1 ID: 0.35 (mm) Dilution Factor: 1.0

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

Number TICs found: 0

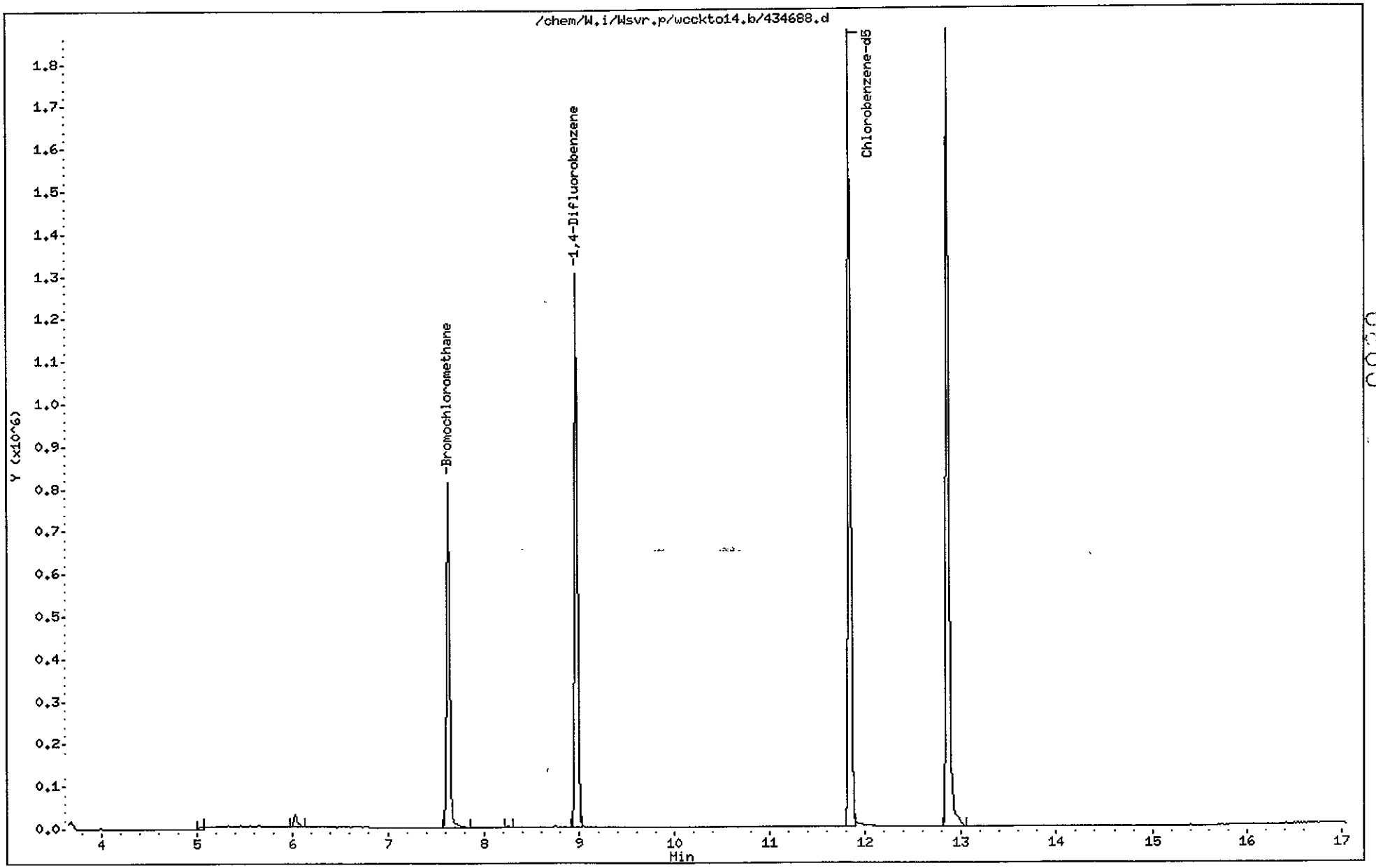
CONCENTRATION UNITS:
(ug/L or ug/Kg) ppbv

	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.					

Data File: /chem/W.i/Wsvr.p/wcckto14.b/434688.d
Date : 30-OCT-2000 13:43
Client ID: 029ACAIA1018
Sample Info: 434688;029ACAIA1018;80293;1030E1
Purge Volume: 200.0
Column phase: DB-1

Instrument: W.i

Operator: GMM
Column diameter: 0.35



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STL Burlington

AIR TOXICS QUANTITATION REPORT

Data file : /chem/W.i/Wsvr.p/wcckto14.b/434688.d
Lab Smp Id: 434688 Client Smp ID: 029ACAIA1018
Inj Date : 30-OCT-2000 13:43
Operator : GMM Inst ID: W.i
Smp Info : 434688;029ACAIA1018;80293;1030E1
Misc Info :
Comment :
Method : /chem/W.i/Wsvr.p/wcckto14.b/ato14.m
Meth Date : 06-Nov-2000 12:30 cmp Quant Type: ISTD
Cal Date : 26-SEP-2000 10:26 Cal File: cc0005i2.d
Als bottle: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ACCANA2.sub
Target Version: 3.50
Processing Host: chemsvr4

Concentration Formula: Amt * DF * X* Uf/Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
X	200.00000	method volume factor
Uf	1.00000	ng unit correction factor
Vo	200.00000	Sample Volume purged (mL)

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)
	2 Chloromethane	50	Compound Not Detected.					
	4 Vinyl Chloride	62	Compound Not Detected.					
	5 Bromomethane	94	Compound Not Detected.					
	6 Chloroethane	64	Compound Not Detected.					
	7 Trichlorofluoromethane	101	Compound Not Detected.					
	9 Methylene Chloride	49	6.028	6.089	(0.789)	23079	0.94240	0.94
	11 1,1-Dichloroethane	63	Compound Not Detected					
	12 cis-1,2-Dichloroethene	61	Compound Not Detected					
*	13 Bromochloromethane	128	7.636	7.698	(1.000)	253293	10.0000	
	14 Chloroform	83	Compound Not Detected.					
	15 1,2-Dichloroethane	62	Compound Not Detected.					
	16 1,1,1-Trichloroethane	97	Compound Not Detected.					
	17 Benzene	78	Compound Not Detected.					
	18 Carbon Tetrachloride	117	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)
*	19 1,4-Difluorobenzene	114	8.972	9.003	(1.000)	1200279	10.0000	
	20 1,2-Dichloropropane	63	Compound Not Detected.					
	21 Trichloroethene	95	Compound Not Detected.					
	22 cis-1,3-Dichloropropene	75	Compound Not Detected.					
	23 trans-1,3-Dichloropropene	75	Compound Not Detected.					
	24 1,1,2-Trichloroethane	83	Compound Not Detected.					
	25 Toluene	92	Compound Not Detected.					
	27 Tetrachloroethene	166	Compound Not Detected.					
*	28 Chlorobenzene-d5	117	11.840	11.841	(1.000)	1242372	10.0000	
	29 Chlorobenzene	112	Compound Not Detected.					
	30 Ethylbenzene	91	Compound Not Detected.					
	31 Xylene (m,p)	106	Compound Not Detected.					
	32 Styrene	104	Compound Not Detected.					
M	33 Xylene (total)	106	Compound Not Detected.					
	34 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					
	35 Xylene (o)	106	Compound Not Detected.					
	38 1,3-Dichlorobenzene	146	Compound Not Detected.					
	39 1,4-Dichlorobenzene	146	Compound Not Detected.					
	40 1,2-Dichlorobenzene	146	Compound Not Detected.					

STL Burlington

AIR TOXICS QUANTITATION REPORT

Data file : /chem/W.i/Wsvr.p/wcckto14.b/434688.d
Lab Smp Id: 434688 Client Smp ID: 029ACAIA1018
Inj Date : 30-OCT-2000 13:43
Operator : GMM Inst ID: W.i
Smp Info : 434688;029ACAIA1018;80293;1030E1
Misc Info :
Comment :
Method : /chem/W.i/Wsvr.p/wcckto14.b/ato14.m
Meth Date : 05-Nov-2000 15:37 cmp Quant Type: ISTD
Cal Date : 26-SEP-2000 10:26 Cal File: cc0005i2.d
Als bottle: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ACCANA.sub
Target Version: 3.50
Processing Host: chemsvr4

- NO TENTATIVELY IDENTIFIED COMPOUNDS -

Data File: /chem/W.i/Wsvr.p/wcckto14.b/434688.d

Date : 30-OCT-2000 13:43

Client ID: 029ACAIA1018

Instrument: W.i

Sample Info: 434688;029ACAIA1018;80293;1030E1

Purge Volume: 200.0

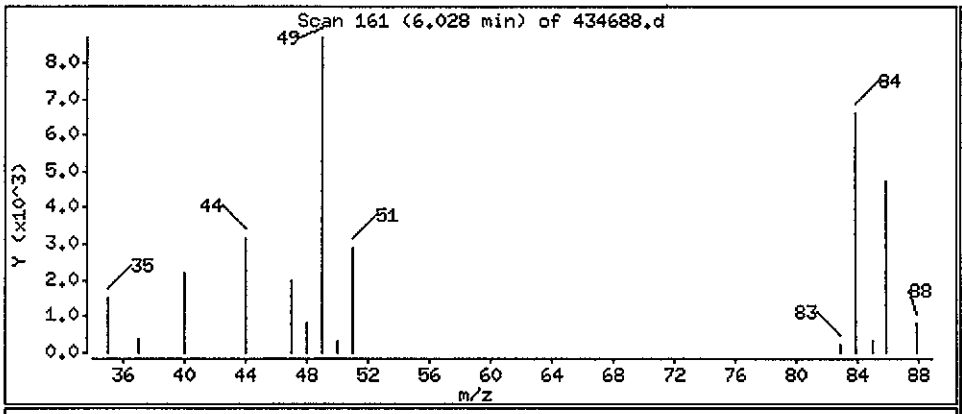
Operator: GMM

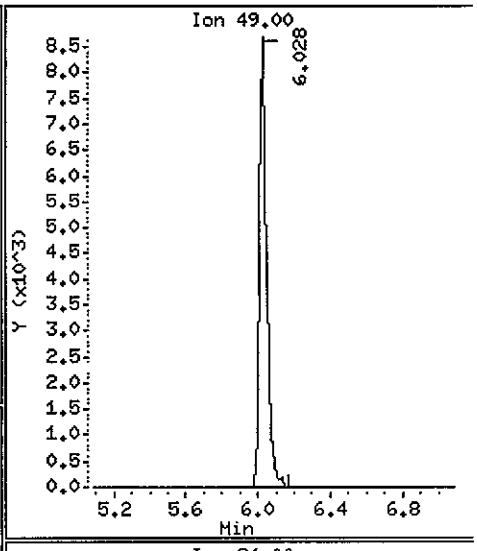
Column phase: DB-1

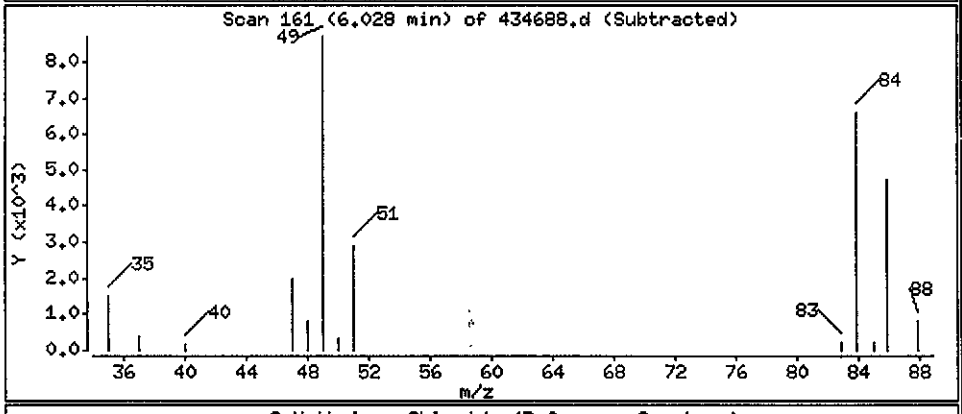
Column diameter: 0.35

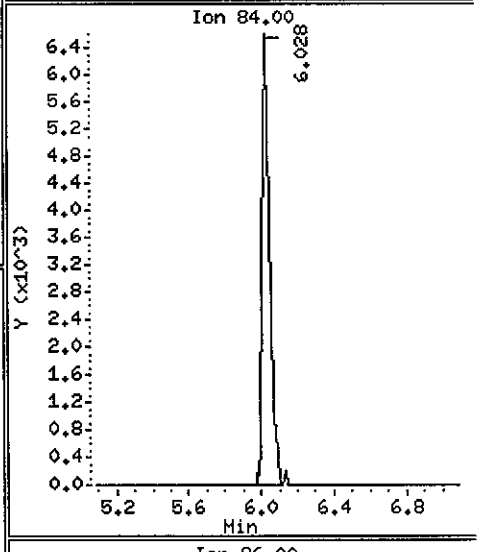
9 Methylene Chloride

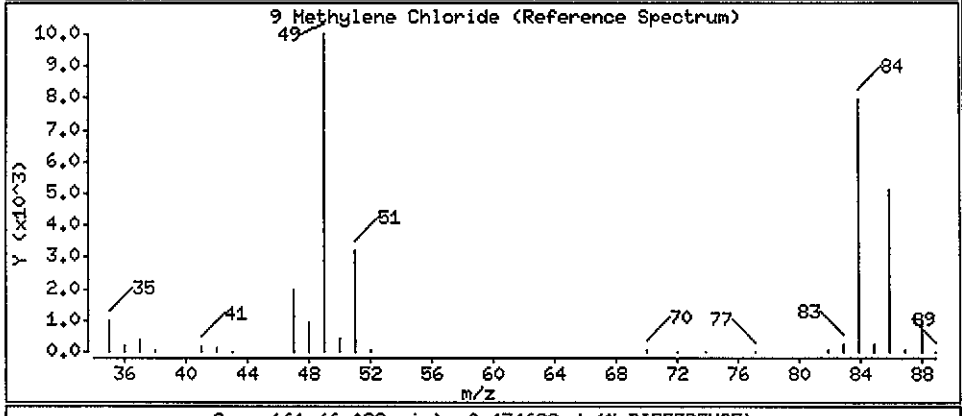
Concentration: 0.94 ppbv

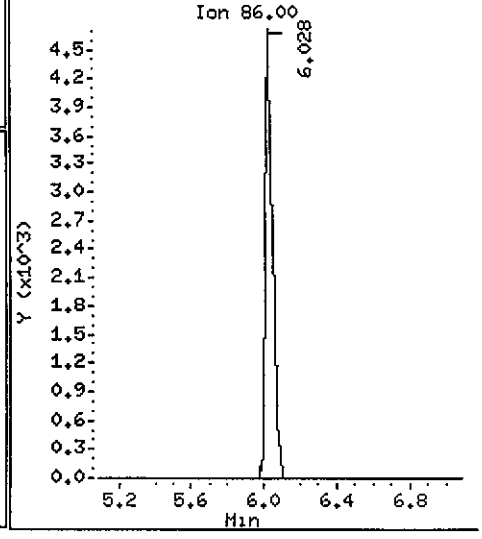


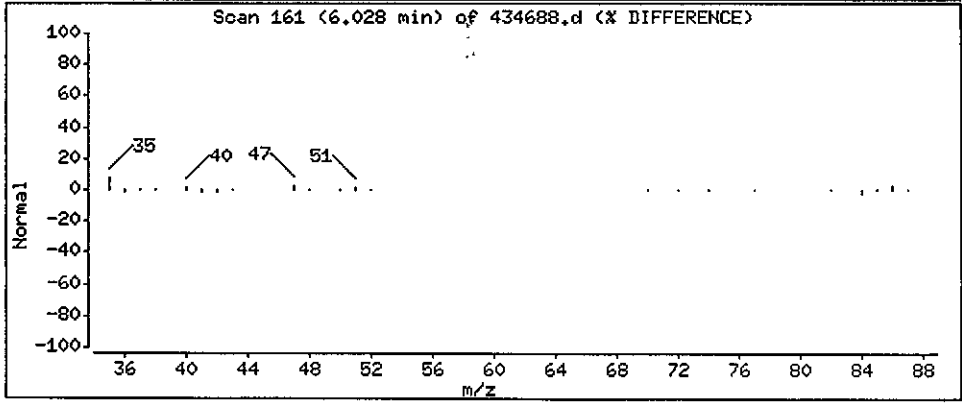












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METHOD TO-14A
VOLATILE ORGANIC ANALYSIS

STANDARDS

6A

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 80293

Instrument ID: W Calibration Date(s): 09/26/00 09/26/00

Heated Purge: (Y/N) N Calibration Time(s): 0814 1026

GC Column: DB-1 ID: 0.35 (mm)

LAB FILE ID: RRF0.5=CC0005I2 RRF5 =CC005
RRF10 =CC010 RRF20 =CC020 RRF40 =CC040

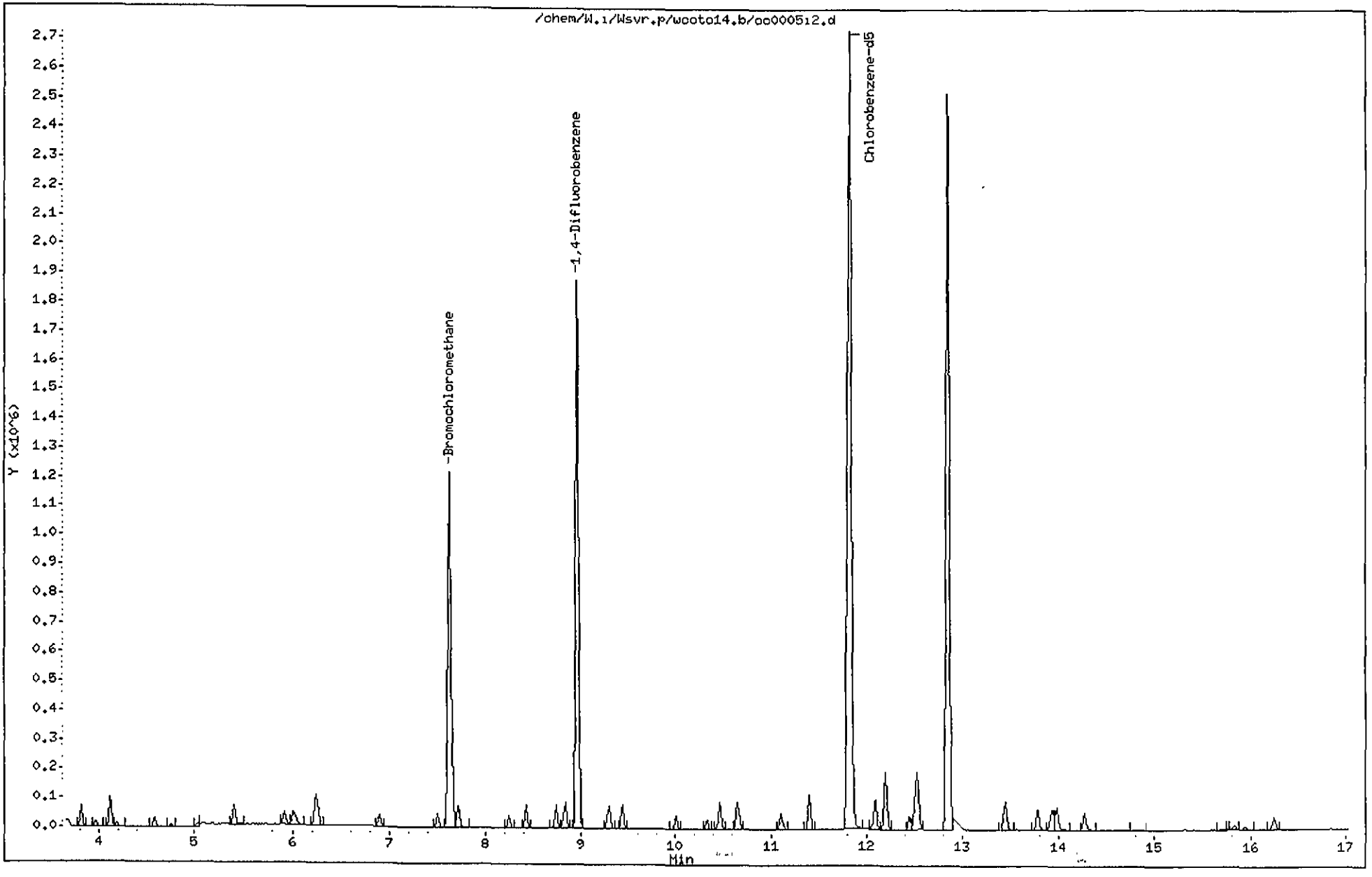
COMPOUND	RRF0.5	RRF5	RRF10	RRF20	RRF40	$\overline{RRF}$	% RSD
Chloromethane *	0.920	0.665	0.592	0.587	0.540	0.661	22.9*
Vinyl Chloride	0.929	0.741	0.680	0.667	0.611	0.726	16.9
Bromomethane	1.306	0.991	0.885	0.781	0.801	0.953	22.5
Chloroethane	0.552	0.449	0.397	0.398	0.370	0.433	16.7
Trichlorofluoromethane	3.208	2.202	1.996	1.957	1.850	2.243	24.7
Methylene Chloride	1.475	0.911	0.840	0.816	0.792	0.967	29.8
1,1-Dichloroethane *	2.196	1.583	1.408	1.388	1.317	1.578	22.7*
cis-1,2-Dichloroethene	1.457	1.333	1.195	1.032	1.007	1.205	16.0
Chloroform	2.793	2.182	1.974	1.767	1.690	2.081	21.2
1,1,1-Trichloroethane	2.494	2.035	1.837	1.671	1.573	1.922	19.0
Carbon Tetrachloride	0.586	0.434	0.386	0.398	0.366	0.434	20.4
Benzene	0.776	0.680	0.600	0.527	0.494	0.615	18.6
1,2-Dichloroethane	1.809	1.399	1.301	1.174	1.115	1.360	20.2
Trichloroethene	0.350	0.317	0.272	0.226	0.216	0.276	20.9
1,2-Dichloropropane	0.300	0.259	0.230	0.171	0.165	0.225	25.8
cis-1,3-Dichloropropene	0.336	0.325	0.302	0.261	0.260	0.297	11.9
Toluene	0.468	0.517	0.446	0.362	0.327	0.424	18.4
trans-1,3-Dichloropropene	0.248	0.216	0.210	0.181	0.187	0.208	12.8
1,1,2-Trichloroethane	0.307	0.277	0.239	0.170	0.155	0.230	28.6
Tetrachloroethene	0.417	0.390	0.339	0.336	0.294	0.355	13.7
Chlorobenzene *	0.753	0.658	0.566	0.505	0.482	0.593	19.0*
Ethylbenzene	1.050	1.130	0.978	0.779	0.838	0.955	15.2
Xylene (total)	1.206	1.220	1.065	0.978	0.995	1.093	10.5
Styrene	0.360	0.508	0.480	0.457	0.449	0.451	12.4
Xylene (m,p)	0.404	0.412	0.358	0.326	0.333	0.367	10.8
Xylene (o)	0.397	0.397	0.348	0.327	0.328	0.359	9.8
1,1,2,2-Tetrachloroethane	0.800	0.677	0.580	0.491	0.515	0.613	20.8
1,3-Dichlorobenzene	0.624	0.593	0.567	0.553	0.530	0.573	6.4
1,4-Dichlorobenzene	0.641	0.519	0.475	0.470	0.457	0.512	14.8
1,2-Dichlorobenzene	0.431	0.458	0.428	0.436	0.419	0.434	3.4

* Compounds with required minimum RRF and maximim %RSD values.
All other compounds must meet a minimim RRF of 0.010.

Data File: /chem/W.i/Wsvr.p/wcoto14.b/oc000512.d
Date : 26-SEP-2000 10:26
Client ID: ASTD0005
Sample Info: ASTD0005 CRV#WCC
Purge Volume: 200.0
Column phase: DB-1

Instrument: W.i

Operator: GHM
Column diameter: 0.35



0037

STL Burlington

AIR TOXICS QUANTITATION REPORT

Data file : /chem/W.i/Wsvr.p/wccto14.b/cc0005i2.d
Lab Smp Id: ASTD0005 Client Smp ID: ASTD0005
Inj Date : 26-SEP-2000 10:26
Operator : GMM Inst ID: W.i
Smp Info : ASTD0005 CRV#WCC
Misc Info :
Comment :
Method : /chem/W.i/Wsvr.p/wccto14.b/ato14.m
Meth Date : 09-Oct-2000 11:20 cmp Quant Type: ISTD
Cal Date : 26-SEP-2000 10:26 Cal File: cc0005i2.d
Als bottle: 2 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50
Processing Host: chemsvr4

Concentration Formula: Amt * DF * X* Uf/Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
X	200.00000	method volume factor
Uf	1.00000	ng unit correction factor
Vo	200.00000	Sample Volume purged (mL)

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	ON-COL (ppbv)
1	Dichlorodifluoromethane	85	3.816	3.881	(0.500)	65793	0.60000	0.84
2	Chloromethane	50	3.960	4.040	(0.519)	17455	0.50000	0.70
3	Dichlorotetrafluoroethane	85	4.119	4.198	(0.539)	68616	0.50000	0.71
4	Vinyl Chloride	62	4.191	4.271	(0.549)	17626	0.50000	0.64
5	Bromomethane	94	4.580	4.660	(0.600)	24782	0.50000	0.68
6	Chloroethane	64	4.753	4.833	(0.622)	10484	0.50000	0.64
7	Trichlorofluoromethane	101	5.406	5.482	(0.708)	60885	0.50000	0.72
8	1,1-Dichloroethene	96	5.922	5.998	(0.775)	21457	0.50000	0.68
9	Methylene Chloride	49	6.013	6.089	(0.787)	33595	0.60000	0.92
10	Freon TF	101	6.256	6.317	(0.819)	54282	0.50000	0.74
11	1,1-Dichloroethane	63	6.908	6.969	(0.905)	41671	0.50000	0.70
12	cis-1,2-Dichloroethene	61	7 500	7.561	(0.982)	27660	0.50000	0.60
* 13	Bromochloromethane	128	7 637	7.698	(1.000)	379557	10.0000	
14	Chloroform	83	7.712	7.774	(1.010)	53008	0.50000	0.67

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	AMOUNTS ON-COL (ppbv)
	15 1,2-Dichloroethane	62	8.244	8.305	(1.079)	34331	0.50000	0.66
	16 1,1,1-Trichloroethane	97	8.426	8.472	(1.103)	47328	0.50000	0.65
	17 Benzene	78	8.744	8.790	(0.976)	67795	0.50000	0.63
	18 Carbon Tetrachloride	117	8.835	8.881	(0.986)	51237	0.50000	0.68
*	19 1,4-Difluorobenzene	114	8.957	9.003	(1.000)	1748346	10.0000	
	20 1,2-Dichloropropane	63	9 291	9.321	(1.037)	26249	0.50000	0.67
	21 Trichloroethene	95	9.442	9.473	(1.054)	30628	0.50000	0.63
	22 cis-1,3-Dichloropropene	75	10.004	10.035	(1.117)	29373	0.50000	0.57
	23 trans-1,3-Dichloropropene	75	10 338	10.369	(1.154)	21681	0.50000	0.59
	24 1,1,2-Trichloroethane	83	10.459	10.490	(1.168)	29494	0.55000	0.73
	25 Toluene	92	10.656	10.672	(0.901)	41906	0.50000	0.55
	26 1,2-Dibromoethane	107	11.112	11.143	(0.940)	40099	0.50000	0.57
	27 Tetrachloroethene	166	11.400	11.416	(0 964)	37344	0.50000	0.59
*	28 Chlorobenzene-d5	117	11.825	11.841	(1.000)	1788956	10.0000	
	29 Chlorobenzene	112	11 855	11.871	(1.003)	67396	0.50000	0.64(Q)
	30 Ethylbenzene	91	12.098	12.099	(1.023)	93962	0.50000	0.55
	31 Xylene m,p)	106	12 204	12.220	(1.032)	72318	1.00000	1.1
M	33 Xylene 'total'	106				107852	0.50000	1.6
	34 1,1,2,2-Tetrachloroethane	83	12.523	12.524	(1.059)	71600	0.50000	0.65
	35 Xylene o'	106	12.538	12.539	(1.060)	35534	0.50000	0.55
	39 1,4-Dichlorobenzene	146	13.980	13.980	(1.182)	57311	0.50000	0.62
	41 1,2,4-Trichlorobenzene	180	15.831	15.832	(1.339)	11358	0.50000	0.58(M)

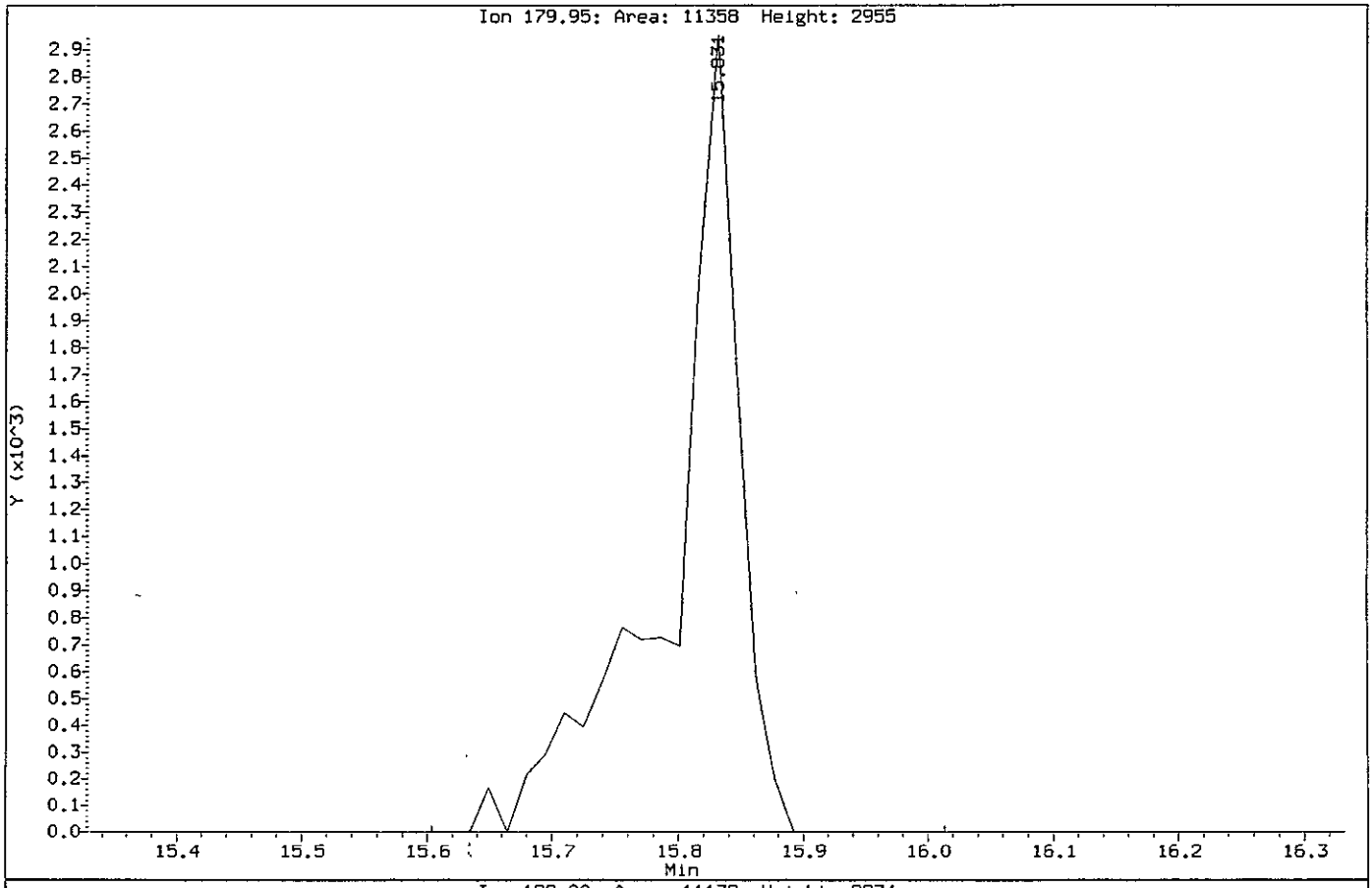
QC Flag Legend

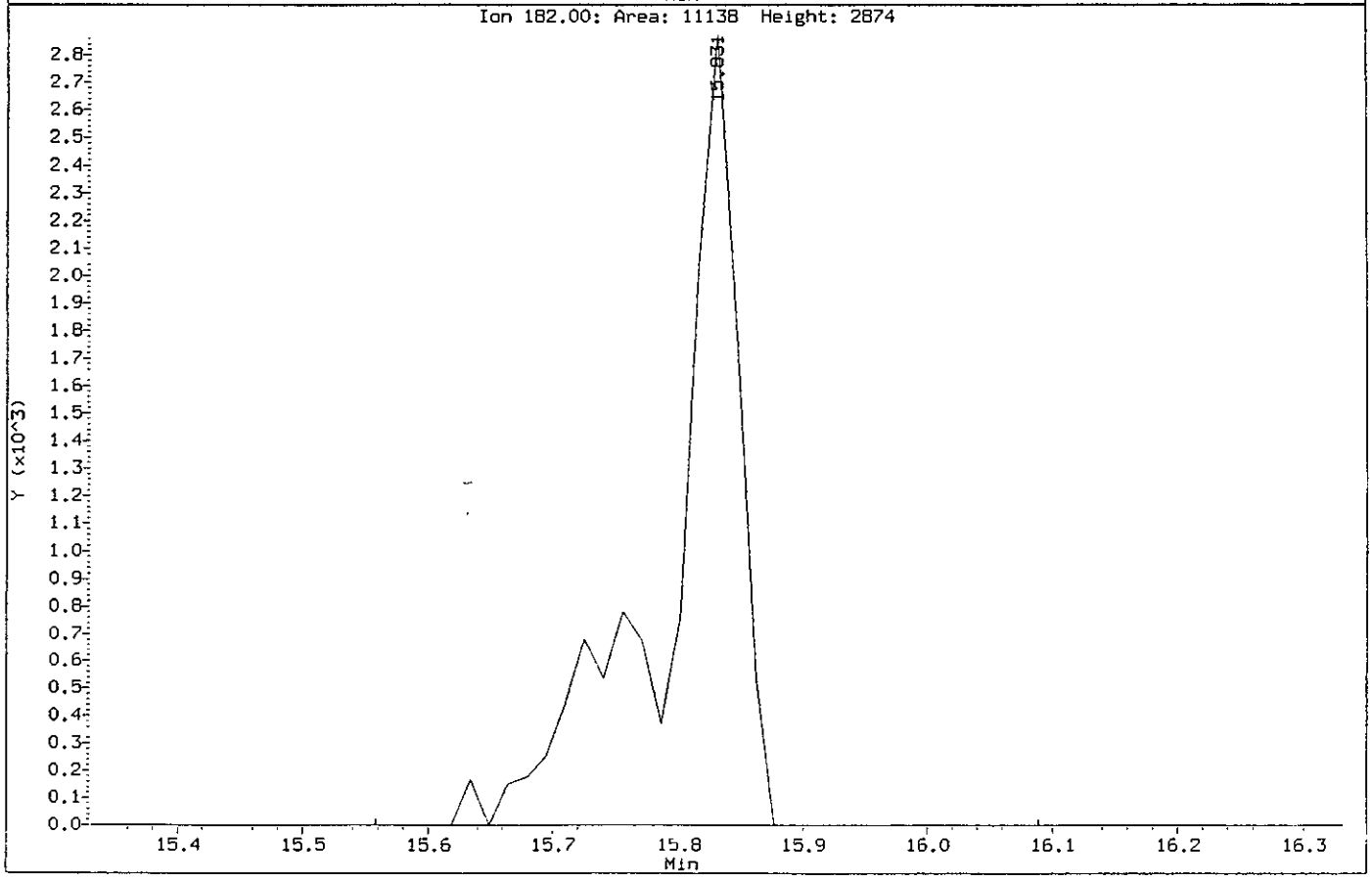
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

CMM 10/9/00

Data File: /chem/W.i/Wsvr.p/wccto14.b/cc000512.d
Injection Date: 26-SEP-2000 10:26
Instrument: W.i
Client Sample ID: ASTD0005

Compound: 1,2,4-Trichlorobenzene
CAS Number: 120-82-1

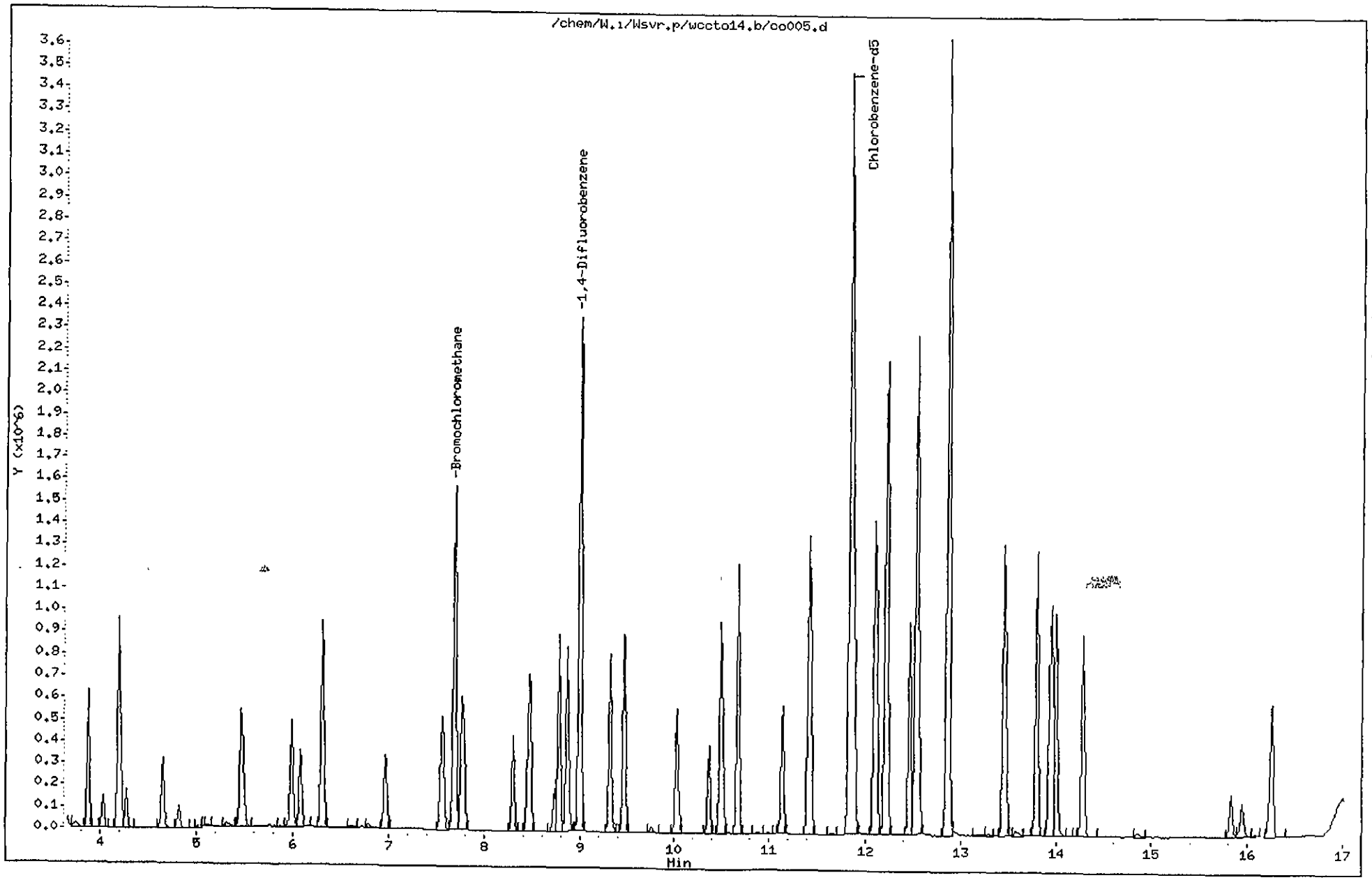




Data File: /chem/W.i/Wsvr.p/wccto14.b/cc005.d
Date : 26-SEP-2000 08:14
Client ID: ASTD005
Sample Info: ASTD005 CRVWWCC
Purge Volume: 200.0
Column phase: DB-1

Instrument: W.i

Operator: GHM
Column diameter: 0.35



0041

STL Burlington

AIR TOXICS QUANTITATION REPORT

Data file : /chem/W.i/Wsvr.p/wccto14.b/cc005.d
Lab Smp Id: ASTD005 Client Smp ID: ASTD005
Inj Date : 26-SEP-2000 08:14
Operator : GMM Inst ID: W.i
Smp Info : ASTD005 CRV#WCC
Misc Info :
Comment :
Method : /chem/W.i/Wsvr.p/wccto14.b/ato14.m
Meth Date : 09-Oct-2000 11:19 cmp Quant Type: ISTD
Cal Date : 26-SEP-2000 08:14 Cal File: cc005.d
Als bottle: 2 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50
Processing Host: chemsvr4

Concentration Formula: Amt * DF * X* Uf/Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
X	200.00000	method volume factor
Uf	1.00000	ng unit correction factor
Vo	200.00000	Sample Volume purged (mL)

Cpnd Variable Local Compound Variable

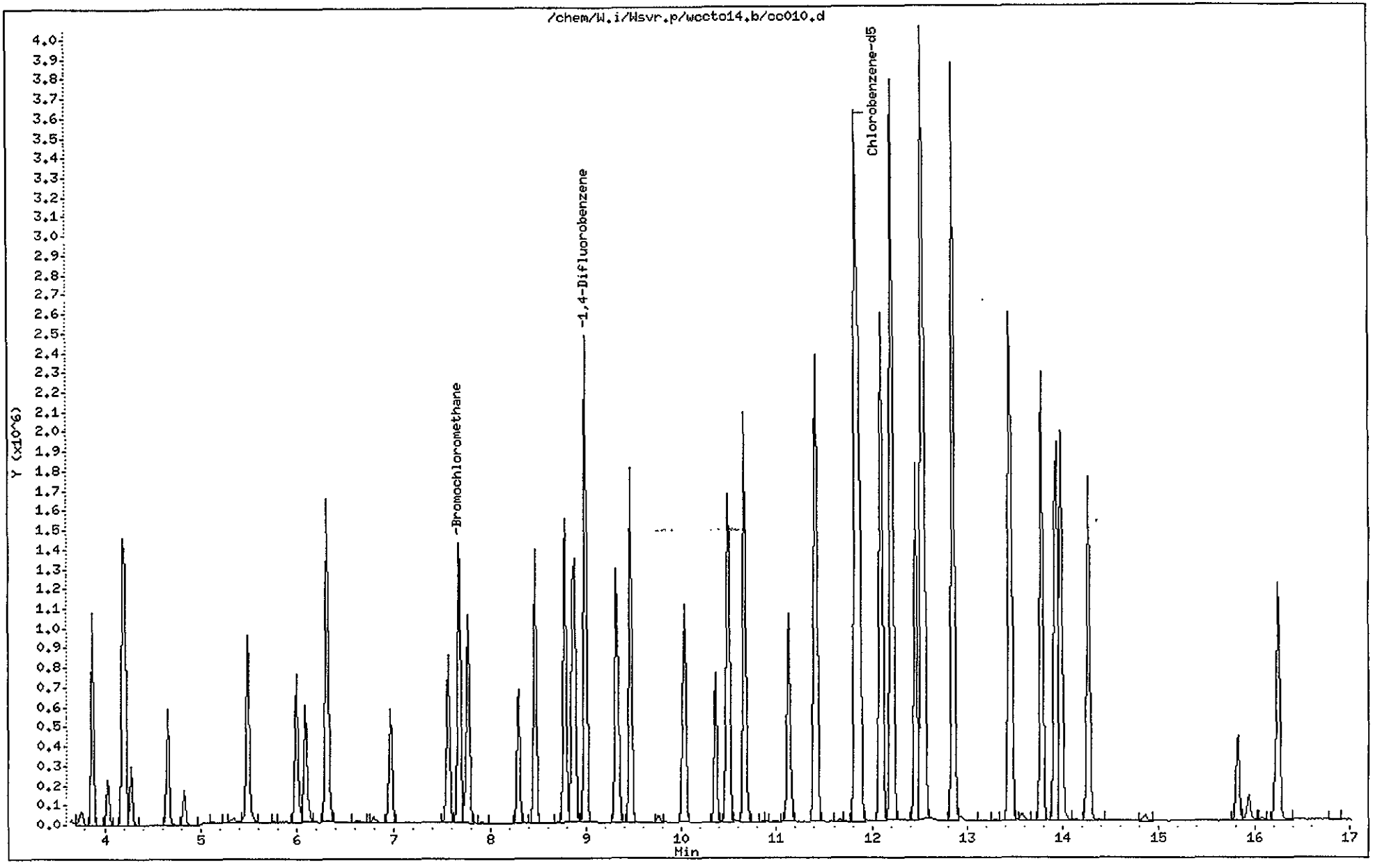
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	ON-COL (ppbv)
1	Dichlorodifluoromethane	85	3.869	3.881	(0.504)	604231	5.00000	5.0
2	Chloromethane	50	4.028	4.040	(0.524)	164055	5.00000	5.0
3	Dichlorotetrafluoroethane	85	4.186	4.198	(0.545)	643688	5.00000	5.0
4	Vinyl Chloride	62	4.258	4.271	(0.554)	182940	5.00000	5.0
5	Bromomethane	94	4.648	4.660	(0.605)	244444	5.00000	5.0
6	Chloroethane	64	4.821	4.833	(0.628)	110823	5.00000	5.0
7	Trichlorofluoromethane	101	5.481	5.482	(0.714)	543367	5.00000	5 0
8	1,1-Dichloroethene	96	5.982	5.998	(0.779)	208018	5.00000	5.0
9	Methylene Chloride	49	6.073	6.089	(0.791)	224838	5.00000	5.0
10	Freon TF	101	6.301	6.317	(0.820)	463994	5.00000	5.0
11	1,1-Dichloroethane	63	6.953	6.969	(0.905)	390538	5.00000	5.0
12	cis-1,2-Dichloroethene	61	7.545	7.561	(0.982)	328917	5.00000	5.0
* 13	Bromochloromethane	128	7.682	7.698	(1.000)	493519	10.0000	
14	Chloroform	83	7.758	7.774	(1.010)	538566	5.00000	5.0

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	AMOUNTS ON-COL (ppbv)
	15 1,2-Dichloroethane	62	8.289	8.305	(1.079)	345235	5.00000	5.0
	16 1,1,1-Trichloroethane	97	8.456	8.472	(1.101)	502216	5.00000	5.0
	17 Benzene	78	8.774	8.790	(0.975)	787372	5.00000	5 0
	18 Carbon Tetrachloride	117	8.865	8.881	(0.985)	502674	5.00000	5.0
*	19 1,4-Difluorobenzene	114	9.002	9.003	(1.000)	2316943	10.0000	
	20 1,2-Dichloropropane	63	9.321	9.321	(1.035)	300254	5.00000	5.0
	21 Trichloroethene	95	9.457	9.473	(1.051)	366861	5.00000	5.0
	22 cis-1,3-Dichloropropene	75	10.034	10.035	(1.115)	376355	5.00000	5.0
	23 trans-1,3-Dichloropropene	75	10.368	10.369	(1.152)	250649	5.00000	5.0
	24 1,1,2-Trichloroethane	83	10.489	10.490	(1.165)	320518	5.00000	5.0
	25 Toluene	92	10.671	10.672	(0.901)	594667	5.00000	5.0
	26 1,2-Dibromoethane	107	11.142	11.143	(0.941)	504720	5.00000	5.0
	27 Tetrachloroethene	166	11.415	11.416	(0.964)	449258	5.00000	5.0
*	28 Chlorobenzene-d5	117	11.840	11.841	(1.000)	2301245	10.0000	
	29 Chlorobenzene	112	11.870	11.871	(1.003)	756767	5.00000	5.0
	30 Ethylbenzene	91	12.098	12.099	(1.022)	1300474	5.00000	5.0
	31 Xylene m,p'	106	12.219	12.220	(1.032)	947125	10.0000	10
	32 Styrene	104	12.462	12.463	(1.053)	585044	5.00000	5.0
M	33 Xylene (total)	106				1404197	5.00000	15
	34 1,1,2,2-Tetrachloroethane	83	12.523	12.524	(1.058)	778915	5.00000	5.0
	35 Xylene o'	106	12 538	12.539	(1.059)	457072	5.00000	5.0
	36 1,3,5-Trimethylbenzene	105	13.448	13.449	(1.136)	998228	5.00000	5.0
	37 1,2,4-Trimethylbenzene	105	13.782	13.783	(1.164)	946306	5.00000	5.0
	38 1,3-Dichlorobenzene	146	13.934	13.935	(1.177)	682423	5.00000	5 0
	39 1,4-Dichlorobenzene	146	13.980	13.980	(1.181)	596797	5.00000	5.0
	40 1,2-Dichlorobenzene	146	14.268	14.269	(1.205)	527297	5.00000	5.0
	41 1,2,4-Trichlorobenzene	180	15.831	15.832	(1.337)	82320	5.00000	5.0
	42 Hexachlorobutadiene	225	16.256	16.257	(1.373)	164412	5.00000	5.0

Data File: /chem/W.i/Wsvr.p/wcctol4.b/cc010.d
Date : 26-SEP-2000 08:44
Client ID: ASTD010
Sample Info: ASTD010 CRV#WCC
Purge Volume: 200.0
Column phase: DB-1

Instrument: W.i

Operator: GHM
Column diameter: 0.35



STL Burlington

AIR TOXICS QUANTITATION REPORT

Data file : /chem/W.i/Wsvr.p/wccto14.b/cc010.d
Lab Smp Id: ASTD010 Client Smp ID: ASTD010
Inj Date : 26-SEP-2000 08:44
Operator : GMM Inst ID: W.i
Smp Info : ASTD010 CRV#WCC
Misc Info :
Comment :
Method : /chem/W.i/Wsvr.p/wccto14.b/ato14.m
Meth Date : 09-Oct-2000 11:19 cmp Quant Type: ISTD
Cal Date : 26-SEP-2000 08:44 Cal File: cc010.d
Als bottle: 3 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50
Processing Host: chemsvr4

Concentration Formula: Amt * DF * X* Uf/Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
X	200.00000	method volume factor
Uf	1.00000	ng unit correction factor
Vo	200.00000	Sample Volume purged (mL)

Cpnd Variable Local Compound Variable

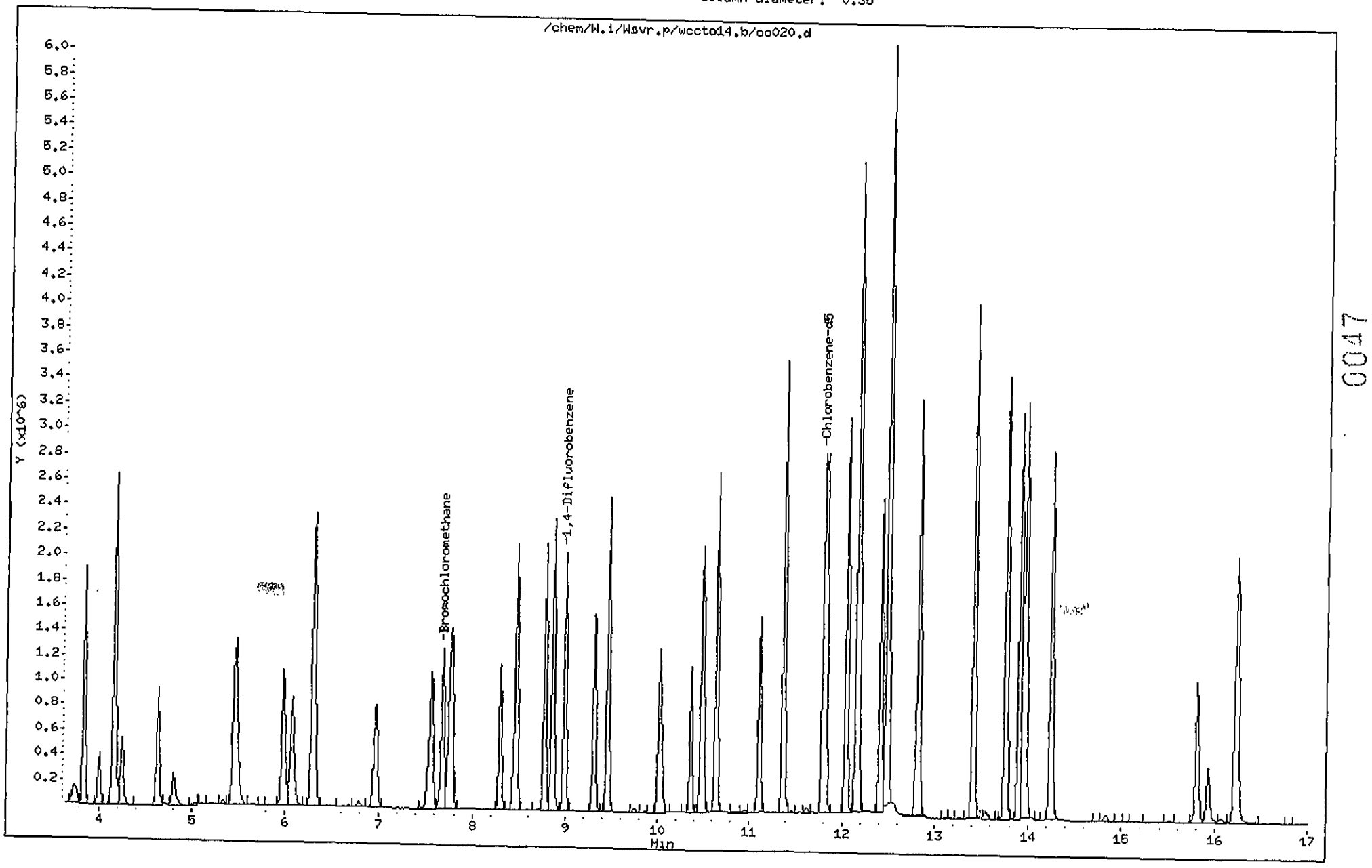
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	AMOUNTS ON-COL (ppbv)
1	Dichlorodifluoromethane	85	3.881	3.881	(0.504)	1015354	10.0000	9.4
2	Chloromethane	50	4.040	4.040	(0.525)	279383	10.0000	9.4
3	Dichlorotetrafluoroethane	85	4.198	4.198	(0.545)	1068465	10.0000	9.3
4	Vinyl Chloride	62	4.271	4.271	(0.555)	320954	10.0000	9.6
5	Bromomethane	94	4.660	4.660	(0.605)	417756	10.0000	9.4
6	Chloroethane	64	4.833	4.833	(0.628)	187490	10.0000	9.4
7	Trichlorofluoromethane	101	5.482	5.482	(0.712)	941747	10.0000	9.5
8	1,1-Dichloroethene	96	5.998	5.998	(0.779)	356977	10.0000	9.4
9	Methylene Chloride	49	6.089	6.089	(0.791)	396509	10.0000	9.6
10	Freon TF	101	6.317	6.317	(0.821)	798551	10.0000	9.5
11	1,1-Dichloroethane	63	6.969	6.969	(0.905)	664356	10.0000	9.4
12	cis-1,2-Dichloroethene	61	7.561	7.561	(0.982)	564049	10.0000	9.4
* 13	Bromochloromethane	128	7.698	7.698	(1.000)	471829	10.0000	
14	Chloroform	83	7.774	7.774	(1.010)	931367	10.0000	9.5

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	AMOUNTS ON-COL (ppbv)
	15 1,2-Dichloroethane	62	8.305	8.305	(1.079)	613842	10.0000	9.6
	16 1,1,1-Trichloroethane	97	8.472	8.472	(1.101)	866870	10.0000	9.5
	17 Benzene	78	8.790	8.790	(0.976)	1370491	10.0000	9.4
	18 Carbon Tetrachloride	117	8.881	8.881	(0.986)	881783	10.0000	9.4
*	19 1,4-Difluorobenzene	114	9.003	9.003	(1.000)	2283337	10.0000	
	20 1,2-Dichloropropane	63	9.321	9.321	(1.035)	525980	10.0000	9.4
	21 Trichloroethene	95	9.473	9.473	(1.052)	621822	10.0000	9.2
	22 cis-1,3-Dichloropropene	75	10.035	10.035	(1.115)	689797	10.0000	9.6
	23 trans-1,3-Dichloropropene	75	10.369	10.369	(1.152)	479306	10.0000	9.8
	24 1,1,2-Trichloroethane	83	10.490	10.490	(1.165)	545818	10.0000	9.3
	25 Toluene	92	10.672	10.672	(0.901)	1049390	10.0000	9.3
	26 1,2-Dibromoethane	107	11.143	11.143	(0.941)	924089	10.0000	9.4
	27 Tetrachloroethene	166	11.416	11.416	(0.964)	798964	10.0000	9.3
*	28 Chlorobenzene-d5	117	11.841	11.841	(1.000)	2354424	10.0000	
	29 Chlorobenzene	112	11.871	11.871	(1.003)	1331579	10.0000	9.2
	30 Ethylbenzene	91	12.099	12.099	(1.022)	2302343	10.0000	9.3
	31 Xylene (m,p)	106	12.220	12.220	(1.032)	1687276	20.0000	19
	32 Styrene	104	12.463	12.463	(1.053)	1129681	10.0000	9.7
M	33 Xylene (total)	106				2508003	10.0000	28
	34 1,1,2,2-Tetrachloroethane	83	12.524	12.524	(1.058)	1366492	10.0000	9.2
	35 Xylene (o)	106	12.539	12.539	(1.059)	820727	10.0000	9.3
	36 1,3,5-Trimethylbenzene	105	13.449	13.449	(1.136)	1808256	10.0000	9.4
	37 1,2,4-Trimethylbenzene	105	13.783	13.783	(1.164)	1740809	10.0000	9.5
	38 1,3-Dichlorobenzene	146	13.935	13.935	(1.177)	1334536	10.0000	9.8
	39 1,4-Dichlorobenzene	146	13.980	13.980	(1.181)	1118127	10.0000	9.6
	40 1,2-Dichlorobenzene	146	14.269	14.269	(1.205)	1007455	10.0000	9.6
	41 1,2,4-Trichlorobenzene	180	15.832	15.832	(1.337)	201741	10.0000	11
	42 Hexachlorobutadiene	225	16.257	16.257	(1.373)	312405	10.0000	9.6

Data File: /chem/W.i/Wsvr.p/wcoto14.b/cc020.d
Date : 26-SEP-2000 09:15
Client ID: ASTD020
Sample Info: ASTD020 CRV#WCC
Purge Volume: 200.0
Column phase: DB-1

Instrument: W.i

Operator: GMM
Column diameter: 0.35



0047

STL Burlington

AIR TOXICS QUANTITATION REPORT

Data file : /chem/W.i/Wsvr.p/wccto14.b/cc020.d
Lab Smp Id: ASTD020 Client Smp ID: ASTD020
Inj Date : 26-SEP-2000 09:15
Operator : GMM Inst ID: W.i
Smp Info : ASTD020 CRV#WCC
Misc Info :
Comment :
Method : /chem/W.i/Wsvr.p/wccto14.b/ato14.m
Meth Date : 09-Oct-2000 11:19 cmp Quant Type: ISTD
Cal Date : 26-SEP-2000 09:15 Cal File: cc020.d
Als bottle: 4 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50
Processing Host: chemsvr4

Concentration Formula: Amt * DF * X* Uf/Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
X	200.00000	method volume factor
Uf	1.00000	ng unit correction factor
Vo	200.00000	Sample Volume purged (mL)

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	AMOUNTS ON-COL (ppbv)
1	Dichlorodifluoromethane	85	3.839	3.881	(0.500)	1764491	20.0000	18
2	Chloromethane	50	4.012	4 040	(0.522)	503259	20.0000	19
3	Dichlorotetrafluoroethane	85	4.170	4.198	(0.543)	1798386	20.0000	18
4	Vinyl Chloride	62	4.242	4.271	(0.552)	571700	20.0000	19
5	Bromomethane	94	4.632	4.660	(0.603)	669927	20.0000	18
6	Chloroethane	64	4.805	4.833	(0.625)	341481	20.0000	19
7	Trichlorofluoromethane	101	5.466	5 482	(0 712)	1678431	20.0000	19
8	1,1-Dichloroethene	96	5.967	5.998	(0.777)	629908	20.0000	19
9	Methylene Chloride	49	6.073	6.089	(0.791)	699649	20.0000	19
10	Freon TF	101	6.301	6.317	(0.820)	1415461	20.0000	19
11	1,1-Dichloroethane	63	6.968	6.969	(0.907)	1190552	20.0000	19
12	cis-1,2-Dichloroethene	61	7.545	7.561	(0.982)	885333	20.0000	17
* 13	Bromochloromethane	128	7.681	7.698	(1.000)	428781	10.0000	
14	Chloroform	83	7.757	7.774	(1.010)	1515105	20.0000	18

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	ON-COL (ppbv)
	15 1,2-Dichloroethane	62	8.289	8.305	(1.079)	1006741	20.0000	18
	16 1,1,1-Trichloroethane	97	8.455	8.472	(1.101)	1433091	20.0000	18
	17 Benzene	78	8.774	8.790	(0.976)	1950334	20.0000	18
	18 Carbon Tetrachloride	117	8.865	8.881	(0.986)	1470652	20.0000	20
*	19 1,4-Difluorobenzene	114	8.987	9.003	(1.000)	1848695	10.0000	
	20 1,2-Dichloropropane	63	9.305	9.321	(1.035)	630933	20.0000	16
	21 Trichloroethene	95	9.457	9.473	(1.052)	834106	20.0000	17
	22 cis-1,3-Dichloropropene	75	10.019	10.035	(1.115)	964419	20.0000	18
	23 trans-1,3-Dichloropropene	75	10.352	10.369	(1.152)	668590	20.0000	18
	24 1,1,2-Trichloroethane	83	10.489	10.490	(1.167)	630164	20.0000	15
	25 Toluene	92	10.641	10.672	(0.902)	1330256	20.0000	16
	26 1,2-Dibromoethane	107	11.111	11.143	(0.942)	1284081	20.0000	18
	27 Tetrachloroethene	166	11.369	11.416	(0.964)	1235183	20.0000	19
*	28 Chlorobenzene-d5	117	11.794	11.841	(1.000)	1835215	10.0000	
	29 Chlorobenzene	112	11.824	11.871	(1.003)	1852292	20.0000	18
	30 Ethylbenzene	91	12.052	12.099	(1.022)	2859297	20.0000	16
	31 Xylene (m,p)	106	12.158	12.220	(1.031)	2390239	40.0000	36(Q)
	32 Styrene	104	12.416	12.463	(1.053)	1678464	20.0000	19
M	33 Xylene (total)	106				3589408	20.0000	54
	34 1,1,2,2-Tetrachloroethane	83	12.477	12.524	(1.058)	1802491	20.0000	17
	35 Xylene (o	106	12.492	12.539	(1.059)	1199169	20.0000	18
	36 1,3,5-Trimethylbenzene	105	13.418	13.449	(1.138)	2650056	20.0000	18
	37 1,2,4-Trimethylbenzene	105	13.752	13.783	(1.166)	2611519	20.0000	19
	38 1,3-Dichlorobenzene	146	13.904	13.935	(1.179)	2028798	20.0000	19
	39 1,4-Dichlorobenzene	146	13.949	13.980	(1.183)	1723886	20.0000	19(H)
	40 1,2-Dichlorobenzene	146	14.237	14.269	(1.207)	1599047	20.0000	20
	41 1,2,4-Trichlorobenzene	180	15.816	15.832	(1.341)	480095	20.0000	27
	42 Hexachlorobutadiene	225	16.241	16.257	(1.377)	515732	20.0000	20

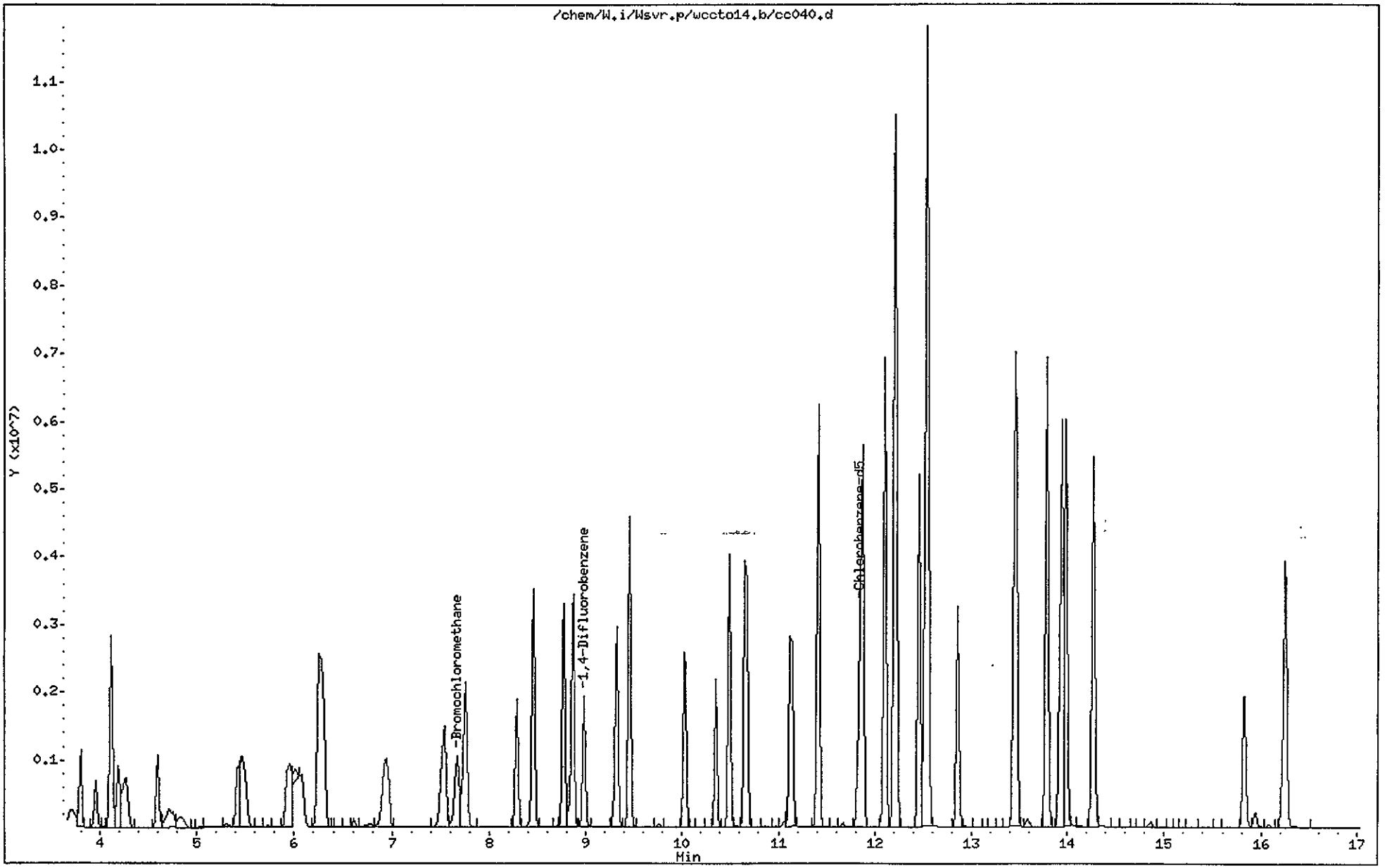
QC Flag Legend

Q - Qualifier signal failed the ratio test.
H - Operator selected an alternate compound hit.

Data File: /chem/W.i/Wsvr.p/wccto14.b/cc040.d
Date : 26-SEP-2000 09:48
Client ID: ASTD040
Sample Info: ASTD040 CRV#WCC
Purge Volume: 200.0
Column phase: DB-1

Instrument: W.i

Operator: GMM
Column diameter: 0.35



0050

STL Burlington

AIR TOXICS QUANTITATION REPORT

Data file : /chem/W.i/Wsvr.p/wccto14.b/cc040.d
Lab Smp Id: ASTD040 Client Smp ID: ASTD040
Inj Date : 26-SEP-2000 09:48
Operator : GMM Inst ID: W.i
Smp Info : ASTD040 CRV#WCC
Misc Info :
Comment :
Method : /chem/W.i/Wsvr.p/wccto14.b/ato14.m
Meth Date : 09-Oct-2000 11:20 cmp Quant Type: ISTD
Cal Date : 26-SEP-2000 09:48 Cal File: cc040.d
Als bottle: 5 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50
Processing Host: chemsvr4

Concentration Formula: Amt * DF * X* Uf/Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
X	200.00000	method volume factor
Uf	1.00000	ng unit correction factor
Vo	200.00000	Sample Volume purged (mL)

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	AMOUNTS ON-COL (ppbv)
1	Dichlorodifluoromethane	85	3.802	3.881	(0.496)	1201322	38.0000	16
2	Chloroethane	50	3.961	4.040	(0.517	843258	40 0000	36
3	Dichlorotetrafluoroethane	85	4.119	4.198	(0 537)	3228761	40.0000	37(M)
4	Vinyl Chloride	62	4.191	4.271	(0 547)	953872	40.0000	36
5	Bromoethane	94	4.595	4.660	(0.599)	1249531	40.0000	37(M)
6	Chloroethane	64	4 826	4.833	(0.629)	577454	40.0000	37
7	Trichlorofluoromethane	101	5 452	5.482	(0.711)	2986622	40.0000	37(M)
8	1,1-Dichloroethene	96	5 953	5.998	(0.776)	1099785	40.0000	37
9	Methylene Chloride	49	6 074	6.089	(0.792)	1235081	40.0000	38
10	Freon TF	101	6.256	6.317	(0.816)	2448595	40.0000	37
11	1,1-Dichloroethane	63	6.954	6.969	(0.907)	2055235	40.0000	37
12	cis-1,2-Dichloroethene	61	7.546	7 561	(0.984,	1570515	40.0000	35
* 13	Bromochloromethane	128	7 668	7 698	1.000)	390021	10.0000	
14	Chloroform	83	7.759	7.774	(1.012)	2636719	40.0000	36

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	ON-COL (ppbv)
15	1,2-Dichloroethane	62	8.290	8.305	(1.081)	1739305	40.0000	36
16	1,1,1-Trichloroethane	97	8.457	8.472	(1.103)	2454171	40.0000	35
17	Benzene	78	8.775	8.790	(0.976)	3420523	40.0000	34
18	Carbon Tetrachloride	117	8.866	8.881	(0.986)	2535029	40.0000	37
* 19	1,4-Difluorobenzene	114	8.988	9.003	(1.000)	1729726	10.0000	
20	1,2-Dichloropropane	63	9.322	9.321	(1.037)	1140642	40.0000	32
21	Trichloroethene	95	9.458	9.473	(1.052)	1496582	40.0000	34
22	cis-1,3-Dichloropropene	75	10.020	10.035	(1.115)	1796826	40.0000	36
23	trans-1,3-Dichloropropene	75	10.354	10.369	(1.152)	1297002	40.0000	38
24	1,1,2-Trichloroethane	83	10.490	10.490	(1.167)	1074030	40.0000	30
25	Toluene	92	10.657	10.672	(0.900)	2312261	40.0000	32
26	1,2-Dibromoethane	107	11.128	11.143	(0.940)	2473238	40.0000	36
27	Tetrachloroethene	166	11.416	11.416	(0.964)	2079400	40.0000	34
* 28	Chlorobenzene-d5	117	11.841	11.841	(1.000)	1769812	10.0000	
29	Chlorobenzene	112	11.871	11.871	(1.003)	3411278	40.0000	35
30	Ethylbenzene	91	12.099	12.099	(1.022)	5936571	40.0000	36
31	Xylene (m,p)	106	12.220	12.220	(1.032)	4717907	80.0000	75
32	Styrene	104	12.463	12.463	(1.053)	3177872	40.0000	38
M 33	Xylene (total)	106				7042868	40.0000	110
34	1,1,2,2-Tetrachloroethane	83	12.539	12.524	(1 059)	3647274	40.0000	36
35	Xylene (o)	106	12.539	12.539	(1.059)	2324961	40.0000	38
36	1,3,5-Trimethylbenzene	105	13.449	13.449	(1.136)	4880236	40.0000	36
37	1,2,4-Trimethylbenzene	105	13.783	13.783	(1.164)	4861996	40.0000	37
38	1,3-Dichlorobenzene	146	13.935	13.935	(1.177)	3748844	40.0000	38
39	1,4-Dichlorobenzene	146	13.981	13.980	(1.181)	3233236	40.0000	38
40	1,2-Dichlorobenzene	146	14.269	14.269	(1.205)	2967555	40.0000	38
41	1,2,4-Trichlorobenzene	180	15.832	15.832	(1.337)	899463	40.0000	49(A)
42	Hexachlorobutadiene	225	16.257	16.257	(1.373)	994186	40.0000	40(A)

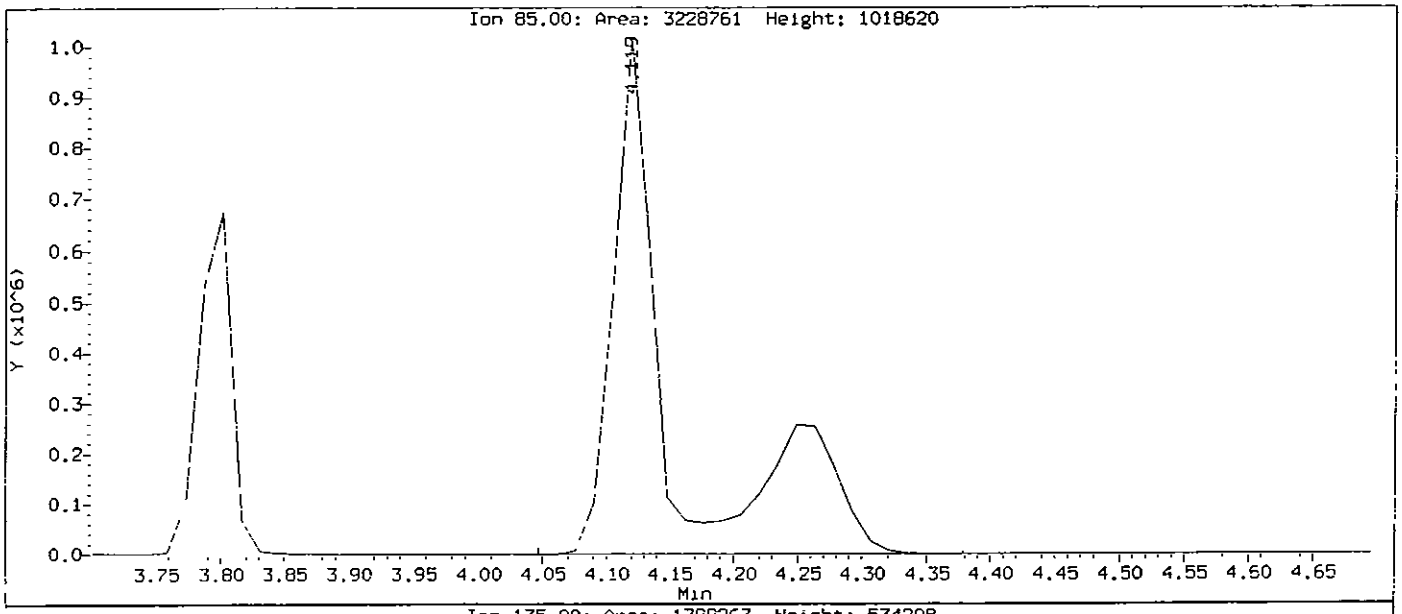
QC Flag Legend

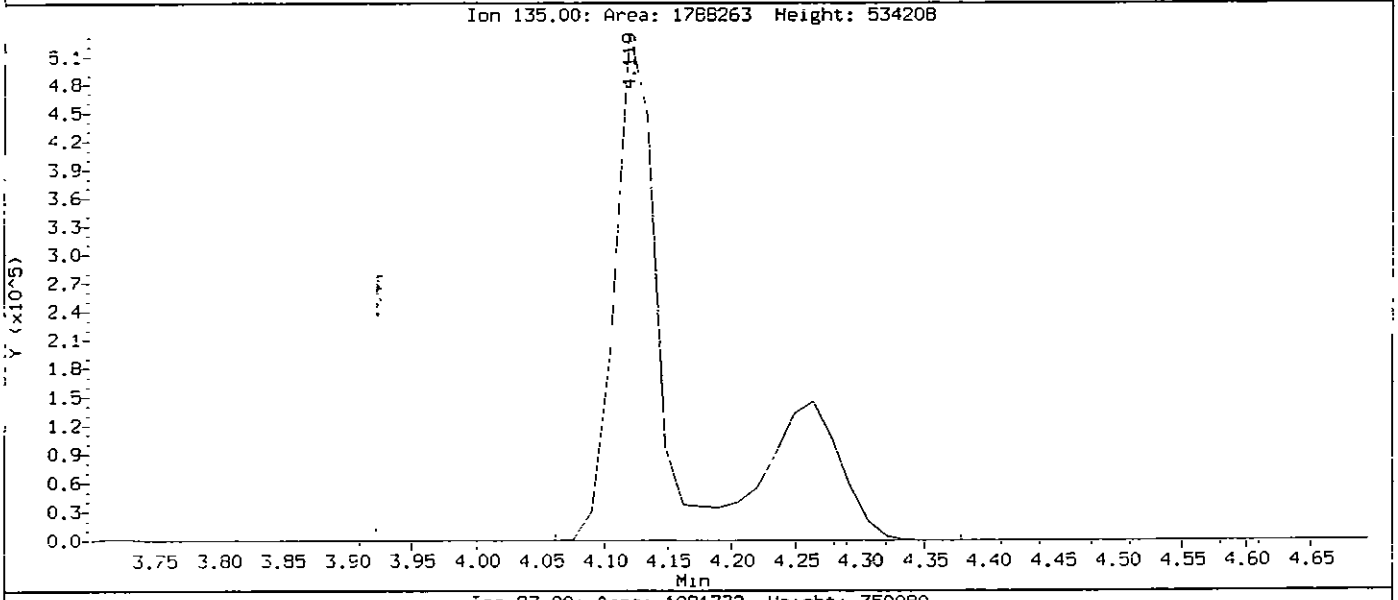
A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.

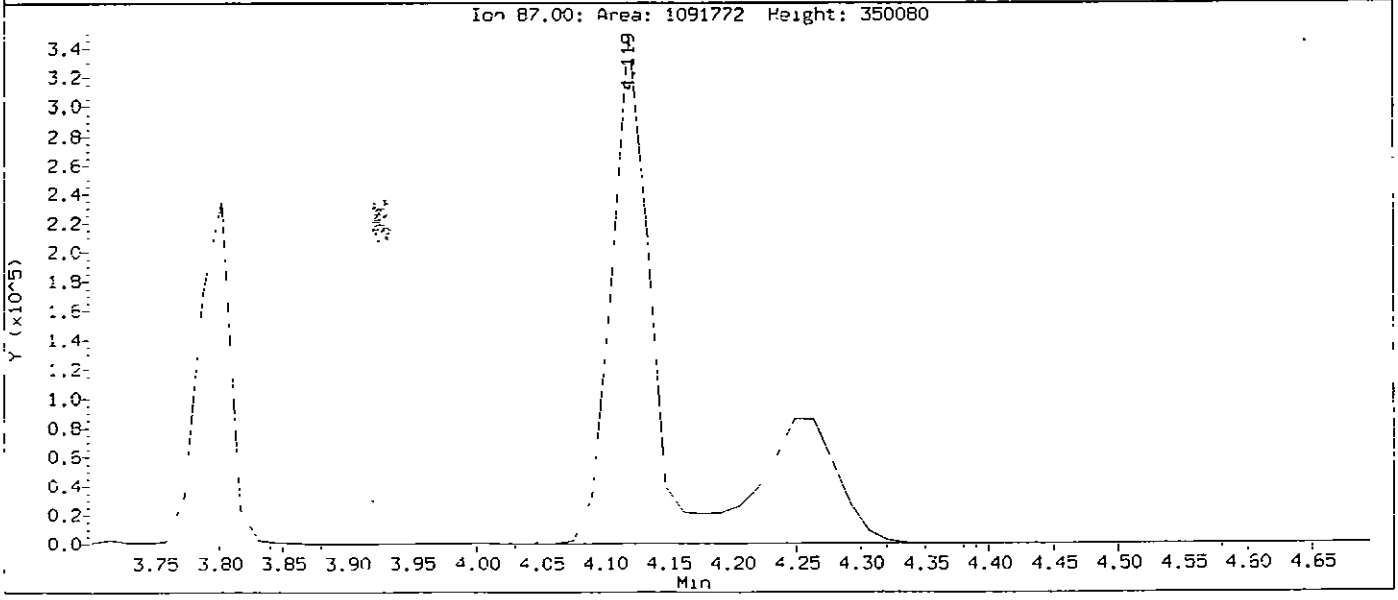
Cmp
10/9/00

Data File: /chem/W.i/Wsvr.p/wccto14.b/cc040.d
Injection Date: 26-SEP-2000 09:48
Instrument: W.i
Client Sample ID: ASTD040

Compound: Dichlorotetrafluoroethane
CAS Number: 76-14-2

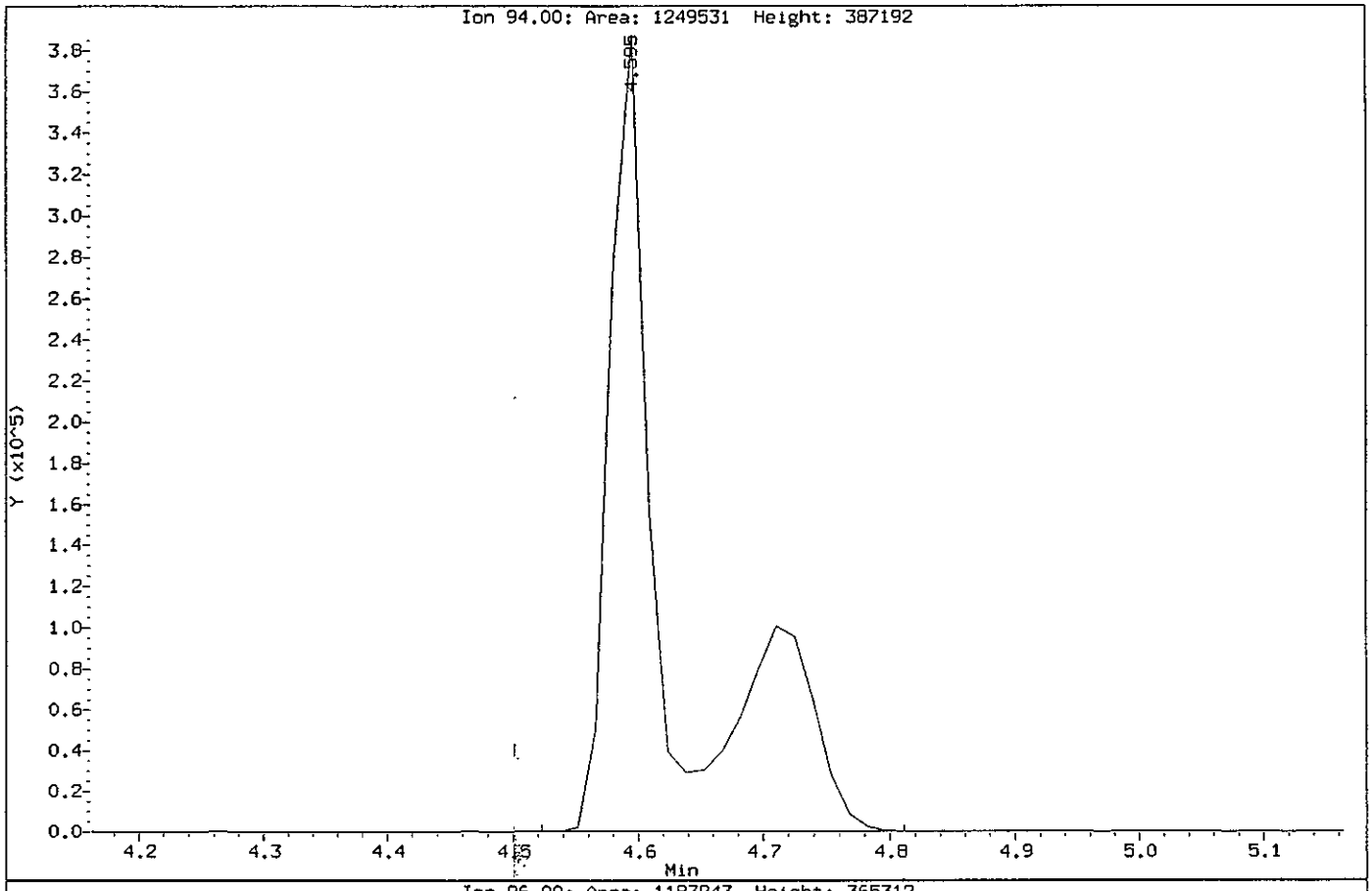


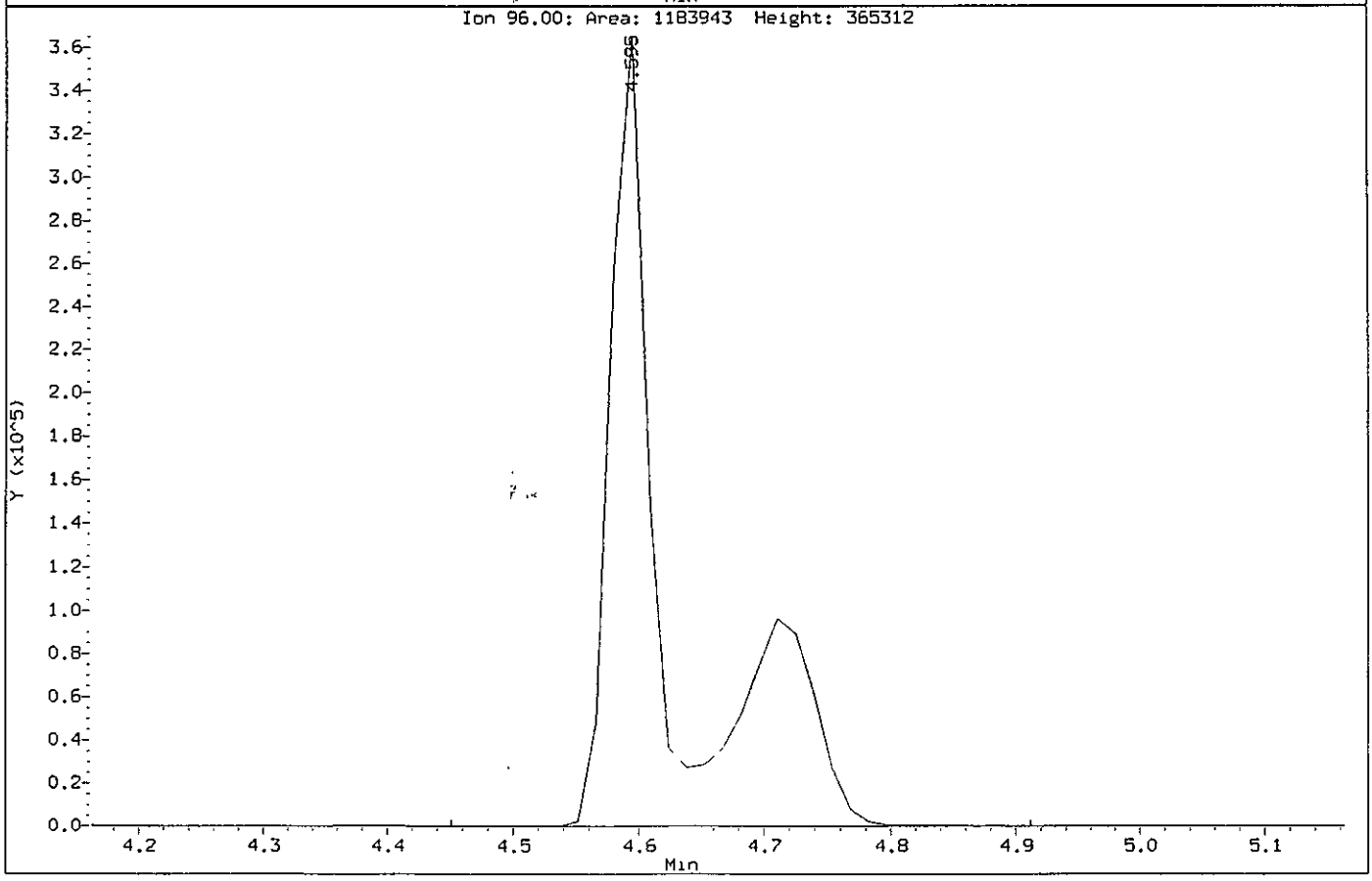




Data File: /chem/W.i/Wsvr.p/wccto14.b/cc040.d
Injection Date: 26-SEP-2000 09:48
Instrument: W.i
Client Sample ID: ASTD040

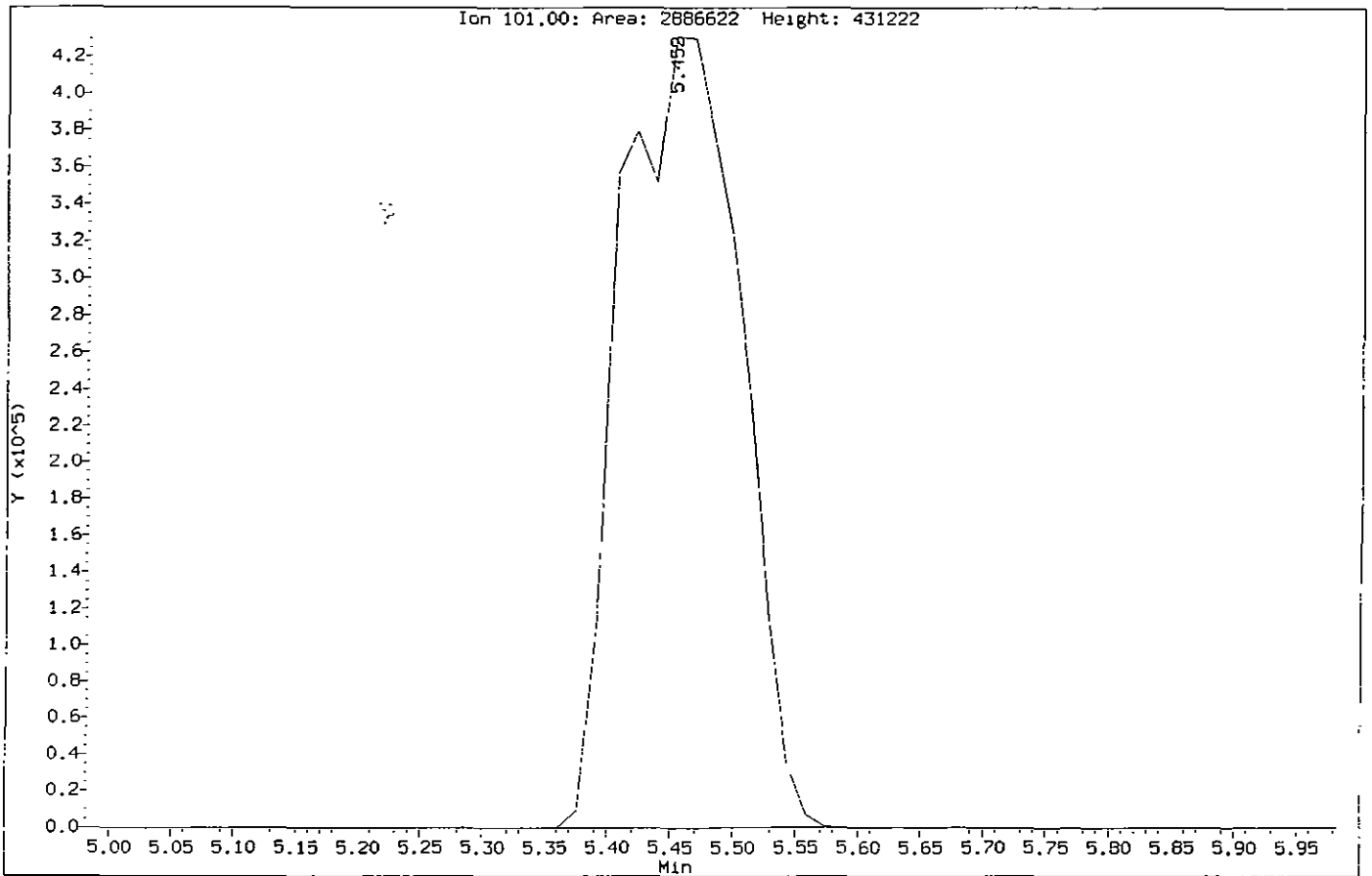
Compound: Bromomethane
CAS Number: 74-83-9

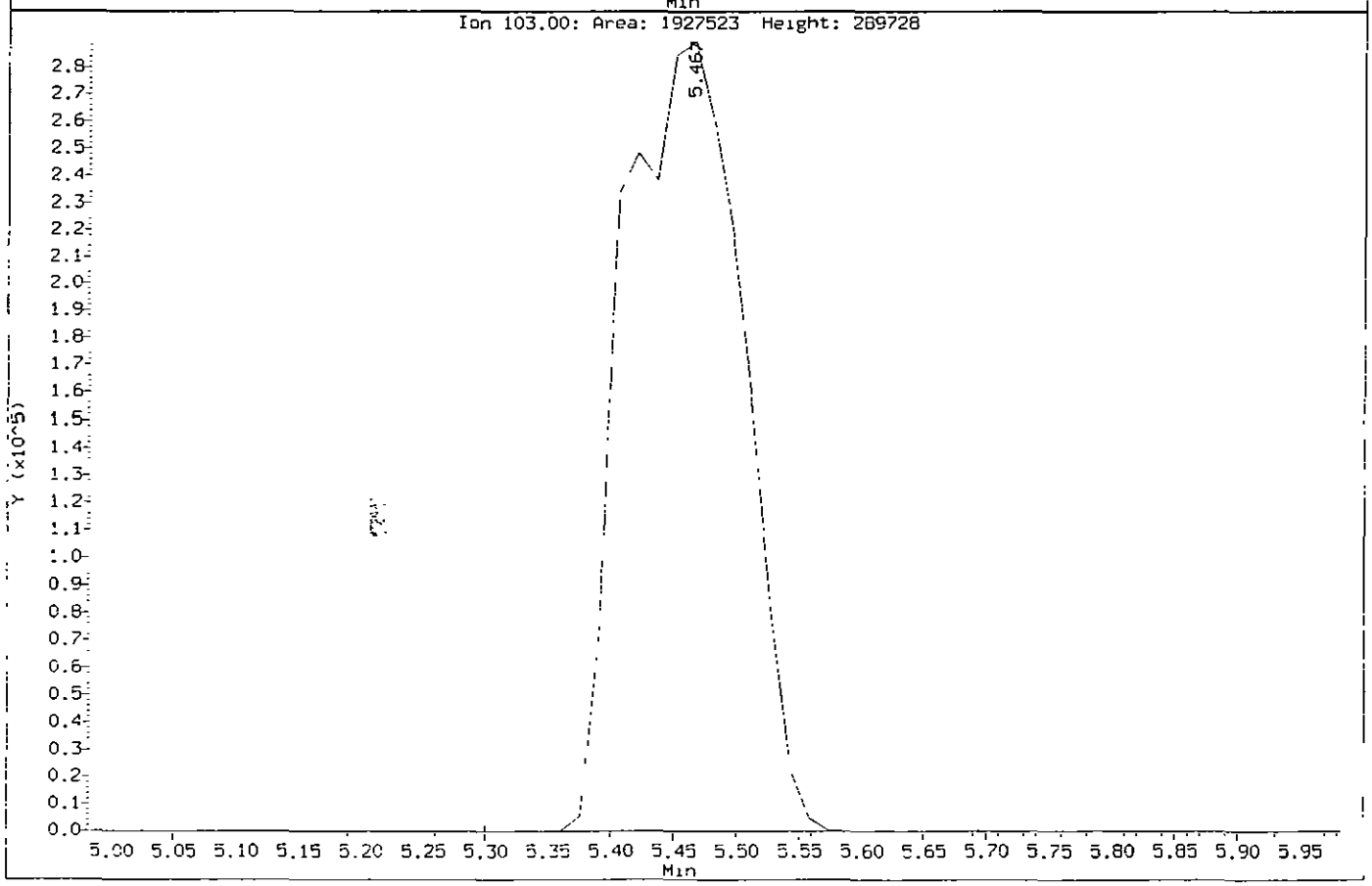




Data File: /chem/W.i/Wsvr.p/wccto14.b/cc040.d
Injection Date: 26-SEP-2000 09:48
Instrument: W.i
Client Sample ID: ASTD040

Compound: Trichlorofluoromethane
CAS Number: 75-69-4





STL Burlington

INITIAL CALIBRATION DATA

Start Cal Date : 26-SEP-2000 08:14
End Cal Date : 26-SEP-2000 10:26
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/W.i/Wsvr.p/wccto14.b/ato14.m
Cal Date : 09-Oct-2000 11:20 cmp
Curve Type : Average

Calibration File Names:
Level 1: /chem/W.i/Wsvr.p/wccto14.b/cc0005i2.d
Level 2: /chem/W.i/Wsvr.p/wccto14.b/cc005.d
Level 3: /chem/W.i/Wsvr.p/wccto14.b/cc010.d
Level 4: /chem/W.i/Wsvr.p/wccto14.b/cc020.d
Level 5: /chem/W.i/Wsvr.p/wccto14.b/cc040.d

Compound	0.50000 Level 1	5.000 Level 2	10.000 Level 3	20.000 Level 4	40.000 Level 5	___ RRF	% RSD	
1 Dichlorodifluoromethane	2.88903	2.44866	2.15195	2.05757	0.81056	2.07155	37.448	<-
2 Chloromethane	0.91976	0.66484	0.59213	0.58685	0.54052	0.66082	22.916	
3 Dichlorotetrafluoroethane	3.61558	2.60856	2.26452	2.09709	2.06961	2.53107	25.410	
4 Vinyl Chloride	0.92877	0.74137	0.68023	0.66666	0.61142	0.72569	16.890	
5 Bromomethane	1.30584	0.99062	0.88540	0.78120	0.80094	0.95280	22.456	
6 Chloroethane	0.55243	0.44911	0.39737	0.39820	0.37014	0.43345	16.698	
7 Trichlorofluoromethane	3.20821	2.20201	1.99595	1.95721	1.85030	2.24274	24.728	
8 1,1-Dichloroethene	1.13063	0.84300	0.75658	0.73453	0.70495	0.83394	20.822	
9 Methylene Chloride	1.47518	0.91116	0.84037	0.81586	0.79168	0.96685	29.752	
10 Freon TF	2.86028	1.88035	1.69246	1.65056	1.56978	1.93069	27.556	
11 1,1-Dichloroethane	2.19577	1.58267	1.40804	1.38830	1.31739	1.57843	22.720	
12 cis-1,2-Dichloroethene	1.45749	1.33295	1.19545	1.03238	1.00669	1.20499	16.035	
14 Chloroform	2.79315	2.18255	1.97395	1.76676	1.69011	2.08131	21.223	
15 1,2-Dichloroethane	1.80900	1.39907	1.30098	1.17396	1.11488	1.35958	20.187	
16 1,1,1-Trichloroethane	2.49385	2.03524	1.83725	1.67112	1.57310	1.92212	18.968	
17 Benzene	0.77553	0.67966	0.60021	0.52749	0.49437	0.61545	18.593	
18 Carbon Tetrachloride	0.58612	0.43391	0.38618	0.39775	0.36639	0.43407	20.383	
20 1,2-Dichloropropane	0.30027	0.25918	0.23036	0.17064	0.16486	0.22506	25.750	
21 Trichloroethene	0.35037	0.31668	0.27233	0.22559	0.21630	0.27625	20.875	
22 cis-1,3-Dichloropropene	0.33601	0.32487	0.30210	0.26084	0.25970	0.29670	11.944	
23 trans-1,3-Dichloropropene	0.24802	0.21636	0.20991	0.18083	0.18746	0.20852	12.765	
24 1,1,2-Trichloroethane	0.30672	0.27667	0 23904	0.17043	0 15523	0.22962	28.627	
25 Toluene	0.46850	0.51682	0.44571	0.36243	0.32663	0.42402	18.397	
26 1,2-Dibromoethane	0.44829	0.43865	0 39249	0 34984	0.34936	0.39573	11.900	
27 Tetrachloroethene	0.41749	0.39045	0.33935	0 33652	0.29373	0.35551	13.709	
29 Chlorobenzene	0.75347	0.65770	0.56556	0.50465	0.48187	0.59265	19.023	

STL Burlington

INITIAL CALIBRATION DATA

Start Cal Date : 26-SEP-2000 08:14
End Cal Date : 26-SEP-2000 10:26
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/W.i/Wsvr.p/wccto14.b/ato14.m
Cal Date : 09-Oct-2000 11:20 cmp
Curve Type : Average

	Compound	0.50000 Level 1	5.000 Level 2	10.000 Level 3	20.000 Level 4	40.000 Level 5	___ RRF	% RSD
	30 Ethylbenzene	1.05047	1.13024	0.97788	0.77901	0.83859	0.95524	15.249
	31 Xylene (m,p)	0.40425	0.41157	0.35832	0.32561	0.33322	0.36659	10.828
	32 Styrene	0.35958	0.50846	0.47981	0.45729	0.44890	0.45081	12.416
M	33 Xylene (total)	1.20575	1.22038	1.06523	0.97793	0.99486	1.09283	10.492
	34 1,1,2,2-Tetrachloroethane	0.80047	0.67695	0.58039	0.49108	0.51521	0.61282	20.757
	35 Xylene (o)	0.39726	0.39724	0.34859	0.32671	0.32642	0.35964	9.841
	36 1,3,5-Trimethylbenzene	0.70827	0.86755	0.76802	0.72200	0.68937	0.75104	9.495
	37 1,2,4-Trimethylbenzene	0.82055	0.82243	0.73938	0.71150	0.68680	0.75613	8.266
	38 1,3-Dichlorobenzene	0.62423	0.59309	0.56682	0.55274	0.52955	0.57329	6.388
	39 1,4-Dichlorobenzene	0.64072	0.51867	0.47490	0.46967	0.45672	0.51214	14.754
	40 1,2-Dichlorobenzene	0.43122	0.45827	0.42790	0.43566	0.41919	0.43445	3.365
	41 1,2,4-Trichlorobenzene	0.12698	0.07154	0.08569	0.13080	0.12706	0.10841	25.551
	42 Hexachlorobutadiene	0.15699	0.14289	0.13269	0.14051	0.14044	0.14270	6.213

FORM 7
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 80293

Instrument ID: W Calibration Date: 10/30/00 Time: 1009

Lab File ID: CC010K Init. Calib. Date(s): 09/26/00 09/26/00

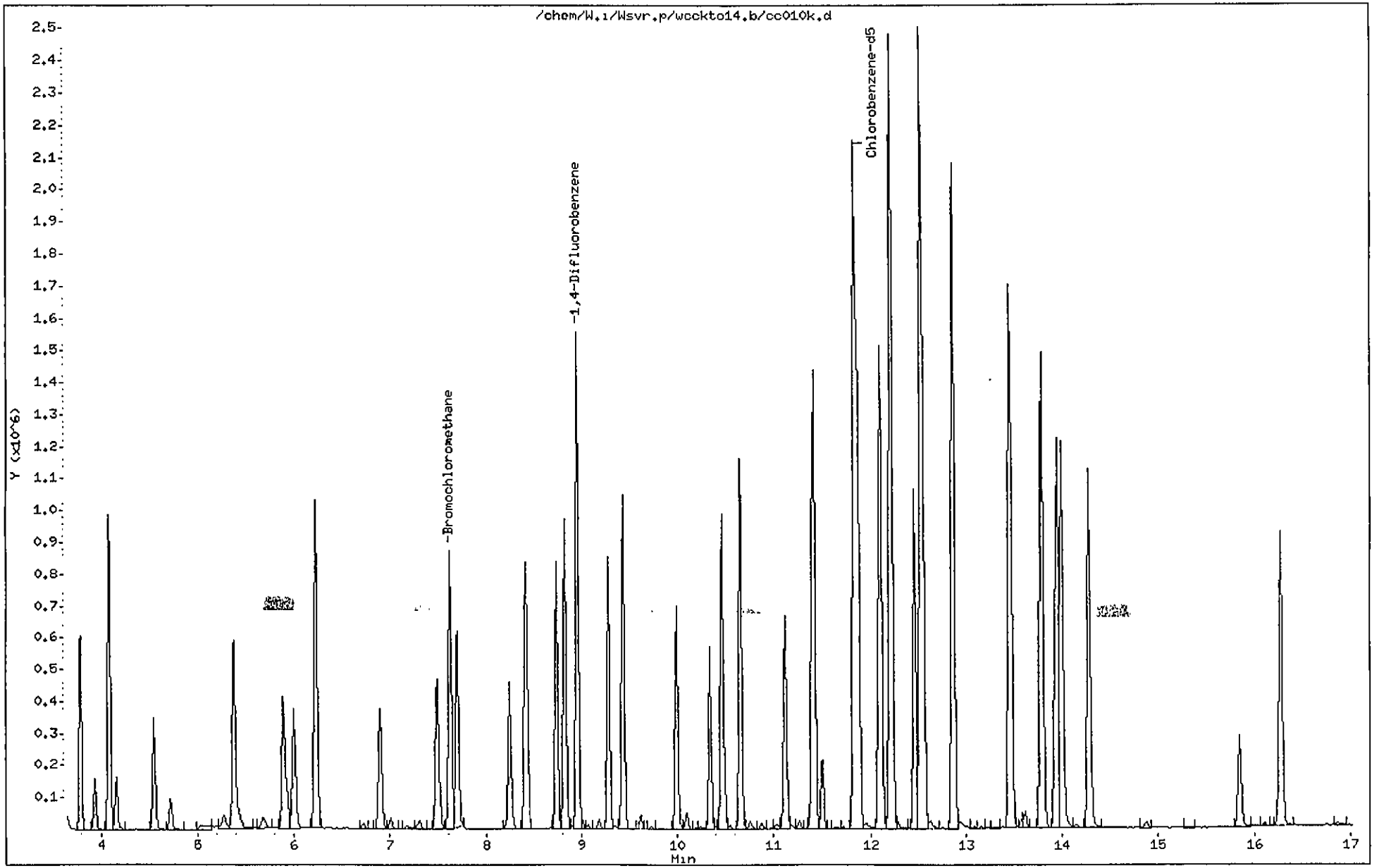
Heated Purge: (Y/N) N Init. Calib. Times: 0814 1026

GC Column: DB-1 ID: 0.35 (mm)

COMPOUND	$\overline{RRF}$	RRF10	MIN RRF	%D	MAX %D	
Chloromethane	0.661	0.602	0.1	8.9	30.0	
Vinyl Chloride	0.726	0.683	0.01	5.9	30.0	
Bromomethane	0.953	0.919	0.01	3.6	30.0	
Chloroethane	0.433	0.383	0.01	11.5	30.0	
Trichlorofluoromethane	2.243	2.353	0.01	4.9	30.0	
Methylene Chloride	0.967	0.940	0.01	2.8	30.0	
1,1-Dichloroethane	1.578	1.655	0.1	4.9	30.0	
cis-1,2-Dichloroethene	1.205	1.272	0.01	5.6	30.0	
Chloroform	2.081	2.159	0.01	3.7	30.0	
1,1,1-Trichloroethane	1.922	2.132	0.01	10.9	30.0	
Carbon Tetrachloride	0.434	0.472	0.01	8.8	30.0	
Benzene	0.615	0.604	0.01	1.8	30.0	
1,2-Dichloroethane	1.360	1.502	0.01	10.4	30.0	
Trichloroethene	0.276	0.297	0.01	7.6	30.0	
1,2-Dichloropropane	0.225	0.228	0.01	1.3	30.0	
cis-1,3-Dichloropropene	0.297	0.357	0.01	20.2	30.0	
Toluene	0.424	0.446	0.01	5.2	30.0	
trans-1,3-Dichloropropene	0.208	0.272	0.01	30.8	30.0	<-
1,1,2-Trichloroethane	0.230	0.248	0.01	7.8	30.0	
Tetrachloroethene	0.355	0.345	0.01	2.8	30.0	
Chlorobenzene	0.593	0.576	0.3	2.9	30.0	
Ethylbenzene	0.955	1.027	0.01	7.5	30.0	
Xylene (total)	1.093	1.118	0.01	2.3	30.0	
Styrene	0.451	0.495	0.01	9.8	30.0	
Xylene (m,p)	0.367	0.374	0.01	1.9	30.0	
Xylene (o)	0.359	0.370	0.01	3.1	30.0	
1,1,2,2-Tetrachloroethane	0.613	0.616	0.01	0.5	30.0	
1,3-Dichlorobenzene	0.573	0.602	0.01	5.1	30.0	
1,4-Dichlorobenzene	0.512	0.513	0.01	0.2	30.0	
1,2-Dichlorobenzene	0.434	0.473	0.01	9.0	30.0	

Data File: /chem/W.i/Wsvr.p/wcckto14.b/cc010k.d
Date : 30-OCT-2000 10:09
Client ID: ASTD010
Sample Info: ASTD010;ASTD010
Purge Volume: 200.0
Column phase: DB-1

Instrument: W.i
Operator: GMM
Column diameter: 0.35



0059

STL Burlington

AIR TOXICS QUANTITATION REPORT

Data file : /chem/W.i/Wsvr.p/wcckto14.b/cc010k.d
Lab Smp Id: ASTD010 Client Smp ID: ASTD010
Inj Date : 30-OCT-2000 10:09
Operator : GMM Inst ID: W.i
Smp Info : ASTD010;ASTD010
Misc Info :
Comment :
Method : /chem/W.i/Wsvr.p/wcckto14.b/ato14.m
Meth Date : 06-Nov-2000 12:30 cmp Quant Type: ISTD
Cal Date : 26-SEP-2000 10:26 Cal File: cc0005i2.d
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ACCANA2.sub
Target Version: 3.50
Processing Host: chemsvr4

Concentration Formula: Amt * DF * X* Uf/Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
X	200.00000	method volume factor
Uf	1.00000	ng unit correction factor
Vo	200.00000	Sample Volume purged (mL)

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	AMOUNTS ON-COL (ppbv)
	2 Chloromethane	50	3.939	4.040	(0.517)	158503	10.0000	9.1
	4 Vinyl Chloride	62	4.170	4.271	(0.547)	179956	10.0000	9.4
	5 Bromomethane	94	4.545	4.660	(0.596)	242215	10.0000	9.6
	6 Chloroethane	64	4.718	4.833	(0.619)	101026	10.0000	8.8
	7 Trichlorofluoromethane	101	5.389	5.482	(0.707)	620126	10.0000	10
	9 Methylene Chloride	49	5.996	6.089	(0.787)	247719	10.0000	9.7
	11 1,1-Dichloroethane	63	6.892	6.969	(0.904)	436224	10.0000	10
	12 cis-1,2-Dichloroethene	61	7.499	7.561	(0.984)	335123	10.0000	10
*	13 Bromochloromethane	128	7.620	7.698	(1.000)	263512	10.0000	
	14 Chloroform	83	7.711	7.774	(1.012)	568867	10.0000	10
	15 1,2-Dichloroethane	62	8.242	8.305	(1.082)	395866	10.0000	11
	16 1,1,1-Trichloroethane	97	8.424	8.472	(1.106)	561919	10.0000	11
	17 Benzene	78	8.743	8.790	(0.976)	748331	10.0000	9.8
	18 Carbon Tetrachloride	117	8.834	8.881	(0.986)	584207	10.0000	11

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	AMOUNTS ON-COL (ppbv)
*	19 1,4-Difluorobenzene	114	8.956	9.003	(1.000)	1238524	10.0000	
	20 1,2-Dichloropropane	63	9.289	9.321	(1.037)	283067	10.0000	10
	21 Trichloroethene	95	9.441	9.473	(1.054)	367788	10.0000	11
	22 cis-1,3-Dichloropropene	75	10.003	10.035	(1.117)	442100	10.0000	12
	23 trans-1,3-Dichloropropene	75	10.337	10.369	(1.154)	337603	10.0000	13
	24 1,1,2-Trichloroethane	83	10.473	10.490	(1.169)	306585	10.0000	11
	25 Toluene	92	10.655	10.672	(0.900)	599544	10.0000	10
	27 Tetrachloroethene	166	11.414	11.416	(0.964)	463626	10.0000	9.7
*	28 Chlorobenzene-d5	117	11.839	11.841	(1.000)	1344236	10.0000	
	29 Chlorobenzene	112	11.869	11.871	(1.003)	774342	10.0000	9.7
	30 Ethylbenzene	91	12.097	12.099	(1.022)	1380266	10.0000	11
	31 Xylene (m,p)	106	12.218	12.220	(1.032)	1005940	20.0000	20
	32 Styrene	104	12.461	12.463	(1.053)	665263	10.0000	11
M	33 Xylene (total)	106				1503117	10.0000	31
	34 1,1,2,2-Tetrachloroethane	83	12.537	12.524	(1.059)	827935	10.0000	10
	35 Xylene (o)	106	12.552	12.539	(1.060)	497177	10.0000	10
	38 1,3-Dichlorobenzene	146	13.948	13.935	(1.178)	809091	10.0000	10
	39 1,4-Dichlorobenzene	146	13.994	13.980	(1.182)	689459	10.0000	10
	40 1,2-Dichlorobenzene	146	14.282	14.269	(1.206)	635841	10.0000	11

STL Burlington

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: W.i
Lab File ID: cc010k.d
Analysis Type: AIR
Lab Sample ID: ASTD010
Method: /chem/W.i/Wsvr.p/wcckto14.b/ato14.m

Injection Date: 30-OCT-2000 10:09
Init. Cal. Date(s): 26-SEP-2000 26-SEP-2000
Init. Cal. Times: 08:14 10:26
Quant Type: ISTD

	COMPOUND	RRF / AMOUNT	RF10	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	
	2 Chloromethane	0.66082	0.60150	0.100	8.97618	30.00000	Averaged	
	4 Vinyl Chloride	0.72569	0.68291	0.010	5.89458	30.00000	Averaged	
	5 Bromomethane	0.95280	0.91918	0.010	3.52832	30.00000	Averaged	
	6 Chloroethane	0.43345	0.38338	0.010	11.55116	30.00000	Averaged	
	7 Trichlorofluoromethane	2.24274	2.35331	0.010	-4.93036	30.00000	Averaged	
	9 Methylene Chloride	0.96685	0.94007	0.010	2.77005	30.00000	Averaged	
	11 1,1-Dichloroethane	1.57843	1.65542	0.100	-4.87764	30.00000	Averaged	
	12 cis-1,2-Dichloroethene	1.20499	1.27176	0.010	-5.54069	30.00000	Averaged	
	14 Chloroform	2.08131	2.15879	0.010	-3.72287	30.00000	Averaged	
	15 1,2-Dichloroethane	1.35958	1.50227	0.010	-10.49513	30.00000	Averaged	
	16 1,1,1-Trichloroethane	1.92212	2.13242	0.010	-10.94144	30.00000	Averaged	
	17 Benzene	0.61545	0.60421	0.010	1.82677	30.00000	Averaged	
	18 Carbon Tetrachloride	0.43407	0.47170	0.010	-8.66779	30.00000	Averaged	
	20 1,2-Dichloropropane	0.22506	0.22855	0.010	-1.55055	30.00000	Averaged	
	21 Trichloroethene	0.27625	0.29696	0.010	-7.49415	30.00000	Averaged	
	22 cis-1,3-Dichloropropene	0.29670	0.35696	0.010	-20.30772	30.00000	Averaged	
	23 trans-1,3-Dichloropropene	0.20852	0.27258	0.010	-30.72627	30.00000	Averaged	<-
	24 1,1,2-Trichloroethane	0.22962	0.24754	0.010	-7.80407	30.00000	Averaged	
	25 Toluene	0.42402	0.44601	0.010	-5.18735	30.00000	Averaged	
	27 Tetrachloroethene	0.35551	0.34490	0.010	2.98427	30.00000	Averaged	
	29 Chlorobenzene	0.59265	0.57605	0.300	2.80185	30.00000	Averaged	
	30 Ethylbenzene	0.95524	1.02680	0.010	-7.49214	30.00000	Averaged	
	31 Xylene (m,p)	0.36659	0.37417	0.010	-2.06623	30.00000	Averaged	
	32 Styrene	0.45081	0.49490	0.010	-9.78037	30.00000	Averaged	
M	33 Xylene (total)	1.09283	1.11819	0.010	-2.32096	30.00000	Averaged	
	34 1,1,2,2-Tetrachloroethane	0.61282	0.61591	0.010	-0.50496	30.00000	Averaged	
	35 Xylene (o)	0.35964	0.36986	0.010	-2.84027	30.00000	Averaged	
	38 1,3-Dichlorobenzene	0.57329	0.60190	0.010	-4.99030	30.00000	Averaged	
	39 1,4-Dichlorobenzene	0.51214	0.51290	0.010	-0.14896	30.00000	Averaged	
	40 1,2-Dichlorobenzene	0.43445	0.47301	0.010	-8.87673	30.00000	Averaged	

SEVERN
TRENT
SERVICES

Severn Trent Laboratories, Inc.

METHOD TO-14A
VOLATILE ORGANIC ANALYSIS

RAW QC DATA

Data File: /chem/W.i/Wsvr.p/wccto14.b/cc001p.d

Date : 26-SEP-2000 07:24

Client ID: WBFB001

Instrument: W.i

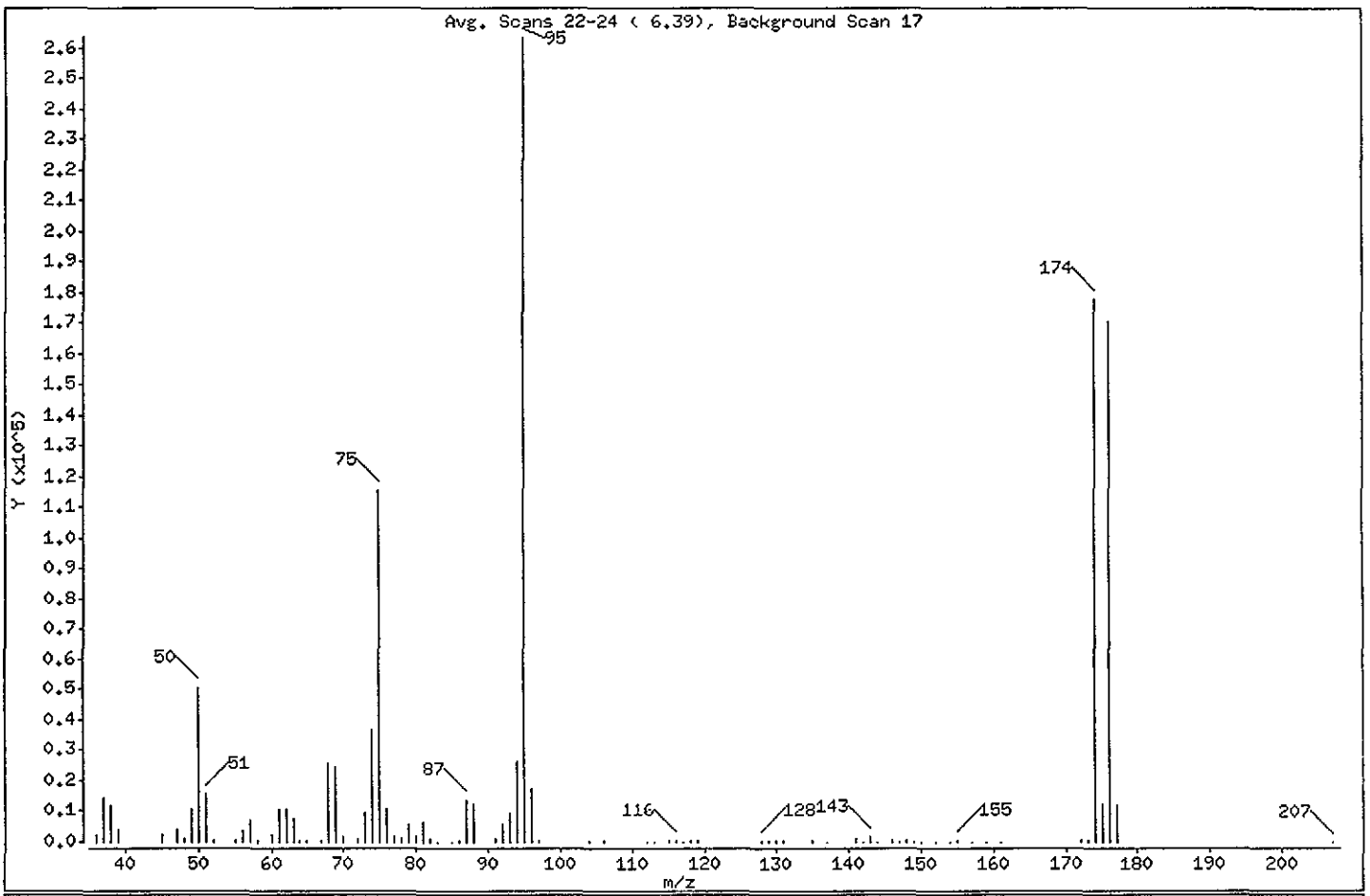
Sample Info: WBFB001

Operator: GMM

Column phase: DB-1

Column diameter: 0.32

$ 1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	8.00 - 40.00% of mass 95	19.35
75	30.00 - 66.00% of mass 95	44.01
96	5.00 - 9.00% of mass 95	6.66
173	Less than 2.00% of mass 174	0.24 (0.36)
174	50.00 - 120.00% of mass 95	67.53
175	4.00 - 9.00% of mass 174	4.80 (7.11)
176	93.00 - 101.00% of mass 174	64.83 (96.01)
177	5.00 - 9.00% of mass 176	4.52 (6.97)

Date : 26-SEP-2000 07:24

Client ID: WBFB001 Instrument: W.i

Sample Info: WBFB001

Operator: GMM

Column phase: DB-1 Column diameter: 0.32

Data File: cc001p.d

Spectrum: Avg. Scans 22-24 (6.39), Background Scan 17

Location of Maximum: 95.00

Number of points: 97

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	2721	68.00	25976	96.00	17552	144.00	54
37.00	14303	69.00	24936	97.00	430	145.00	169
38.00	11927	70.00	1930	103.00	50	146.00	325
39.00	4455	71.00	66	104.00	872	147.00	69
43.00	63	72.00	1367	105.00	285	148.00	476
44.00	196	73.00	9994	106.00	880	149.00	112
45.00	2225	74.00	36944	107.00	176	150.00	125
46.00	252	75.00	115968	111.00	52	152.00	72
47.00	4031	76.00	10642	112.00	110	153.00	155
48.00	1497	77.00	1581	113.00	79	154.00	72
49.00	10731	78.00	919	115.00	313	155.00	471
50.00	50976	79.00	6385	116.00	729	157.00	249
51.00	15487	80.00	1701	117.00	227	159.00	207
52.00	636	81.00	6667	118.00	519	161.00	219
55.00	555	82.00	323	119.00	529	172.00	437
56.00	3654	83.00	200	126.00	119	173.00	636
57.00	7286	85.00	115	128.00	867	174.00	177920
58.00	467	86.00	381	129.00	333	175.00	12649
60.00	2338	87.00	13807	130.00	809	176.00	170816
61.00	10699	88.00	12904	131.00	311	177.00	11907
62.00	10614	91.00	978	135.00	359	178.00	285
63.00	7786	92.00	6131	137.00	211	207.00	211
64.00	790	93.00	9442	141.00	1293		
65.00	310	94.00	26352	142.00	143		
67.00	694	95.00	263482	143.00	1538		

Data File: /chem/W.i/Wsvr.p/wccto14.b/cc001p.d

Date : 26-SEP-2000 07:24

Client ID: WBFB001

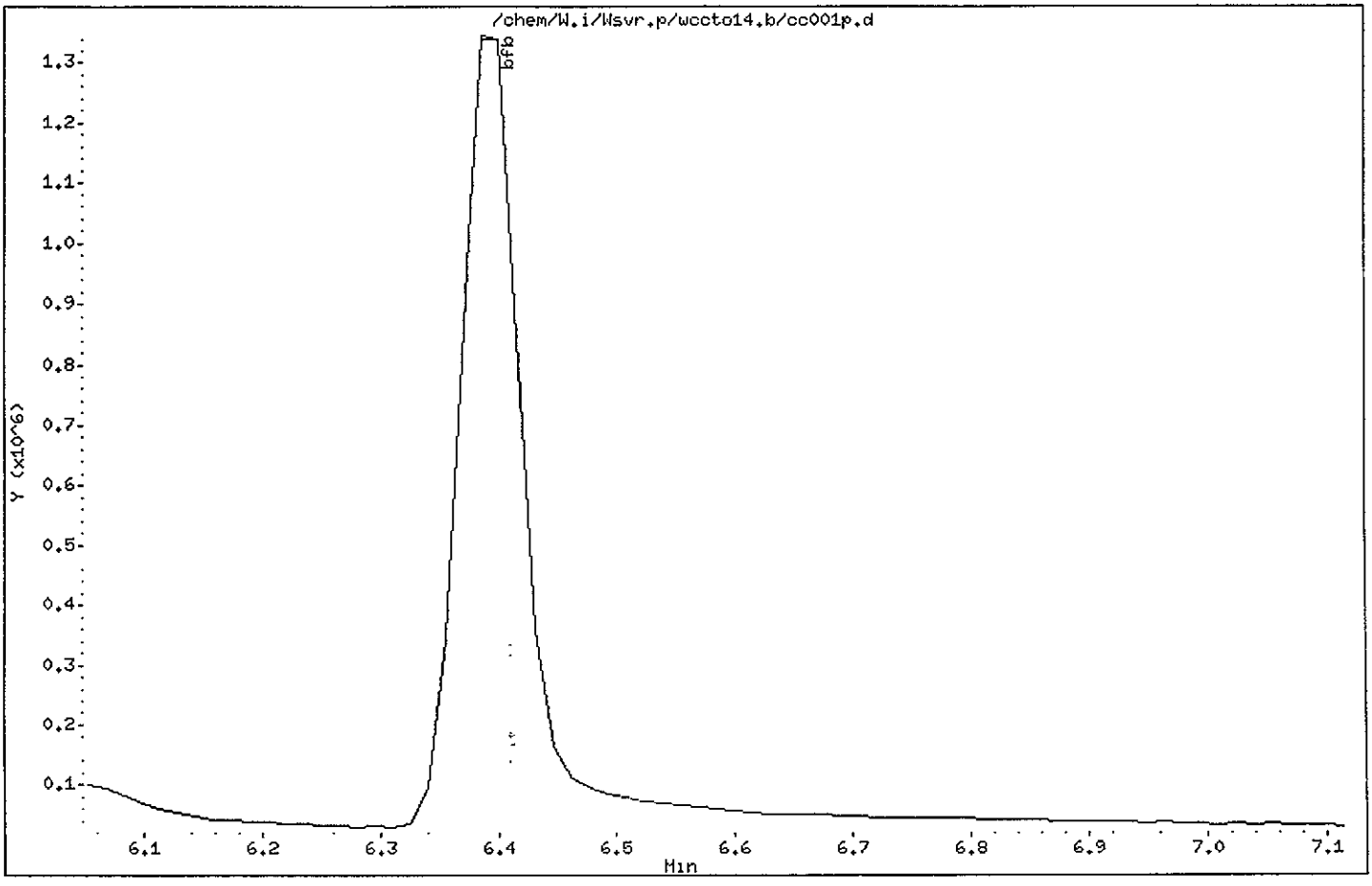
Instrument: W.i

Sample Info: WBFB001

Operator: GMM

Column phase: DB-1

Column diameter: 0.32



Data File: /chem/W.i/Wsvr.p/wcckto14.b/cc011p.d

Date : 30-OCT-2000 09:47

Client ID: WBFB011

Instrument: W.i

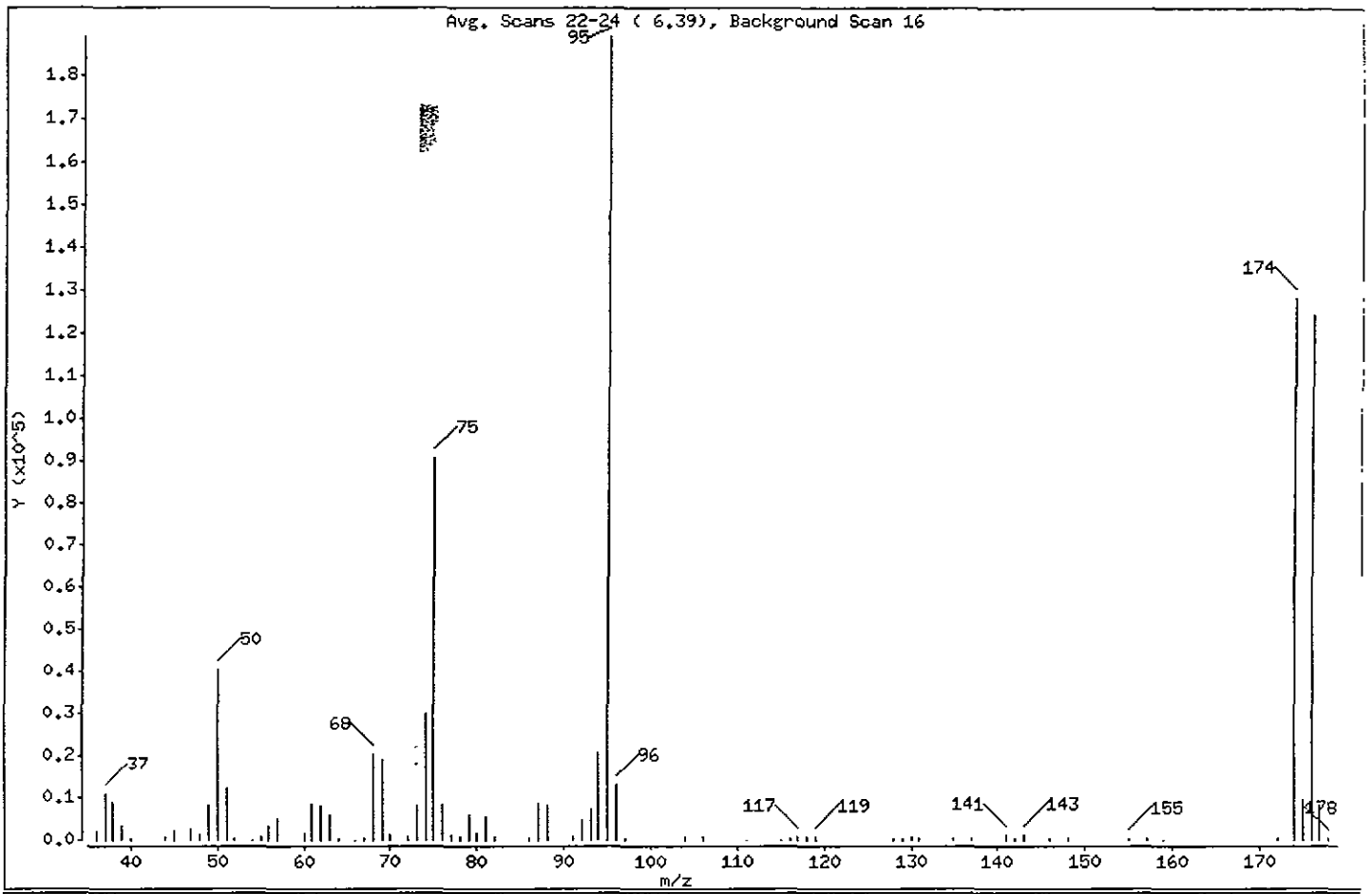
Sample Info: WBFB011

Operator: GMH

Column phase: DB-1

Column diameter: 0.32

$ 1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	8.00 - 40.00% of mass 95	21.35
75	30.00 - 66.00% of mass 95	47.96
96	5.00 - 9.00% of mass 95	6.79
173	Less than 2.00% of mass 174	0.00 (0.00)
174	50.00 - 120.00% of mass 95	67.83
175	4.00 - 9.00% of mass 174	5.01 (7.38)
176	93.00 - 101.00% of mass 174	65.64 (96.78)
177	5.00 - 9.00% of mass 176	4.29 (6.53)

Data File: /chem/W.i/Wsvr.p/wcckto14.b/cc011p.d

Date : 30-OCT-2000 09:47

Client ID: WBFB011

Instrument: W.i

Sample Info: WBFB011

Operator: GHM

Column phase: DB-1

Column diameter: 0.32

Data File: cc011p.d
Spectrum: Avg. Scans 22-24 (6.39), Background Scan 16
Location of Maximum: 95.00
Number of points: 89

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	2215	61.00	8836	87.00	8530	131.00	258
37.00	10954	62.00	8266	88.00	8100	135.00	254
38.00	9220	63.00	6066	91.00	663	137.00	252
39.00	3569	64.00	606	92.00	4827	141.00	1343
40.00	311	65.00	138	93.00	7553	142.00	231
41.00	171	66.00	108	94.00	21024	143.00	1467
42.00	75	67.00	497	95.00	189184	146.00	238
43.00	157	68.00	20296	96.00	12851	148.00	389
44.00	656	69.00	19168	97.00	372	149.00	53
45.00	1997	70.00	1491	103.00	51	150.00	134
46.00	66	72.00	1050	104.00	695	155.00	345
47.00	2547	73.00	8173	105.00	217	157.00	278
48.00	1477	74.00	30048	106.00	741	159.00	68
49.00	8299	75.00	90728	107.00	168	161.00	56
50.00	40384	76.00	8094	111.00	67	172.00	283
51.00	12035	77.00	1213	115.00	173	174.00	128320
52.00	588	78.00	703	116.00	639	175.00	9474
54.00	116	79.00	6263	117.00	812	176.00	124184
55.00	782	80.00	1721	118.00	672	177.00	8115
56.00	3414	81.00	5681	119.00	990	178.00	290
57.00	5433	82.00	783	128.00	640		
58.00	208	83.00	170	129.00	299		
60.00	1757	86.00	232	130.00	715		

Data File: /chem/W.i/Wsvr.p/wcckto14.b/cc011p.d

Date : 30-OCT-2000 09:47

Client ID: WBFB011

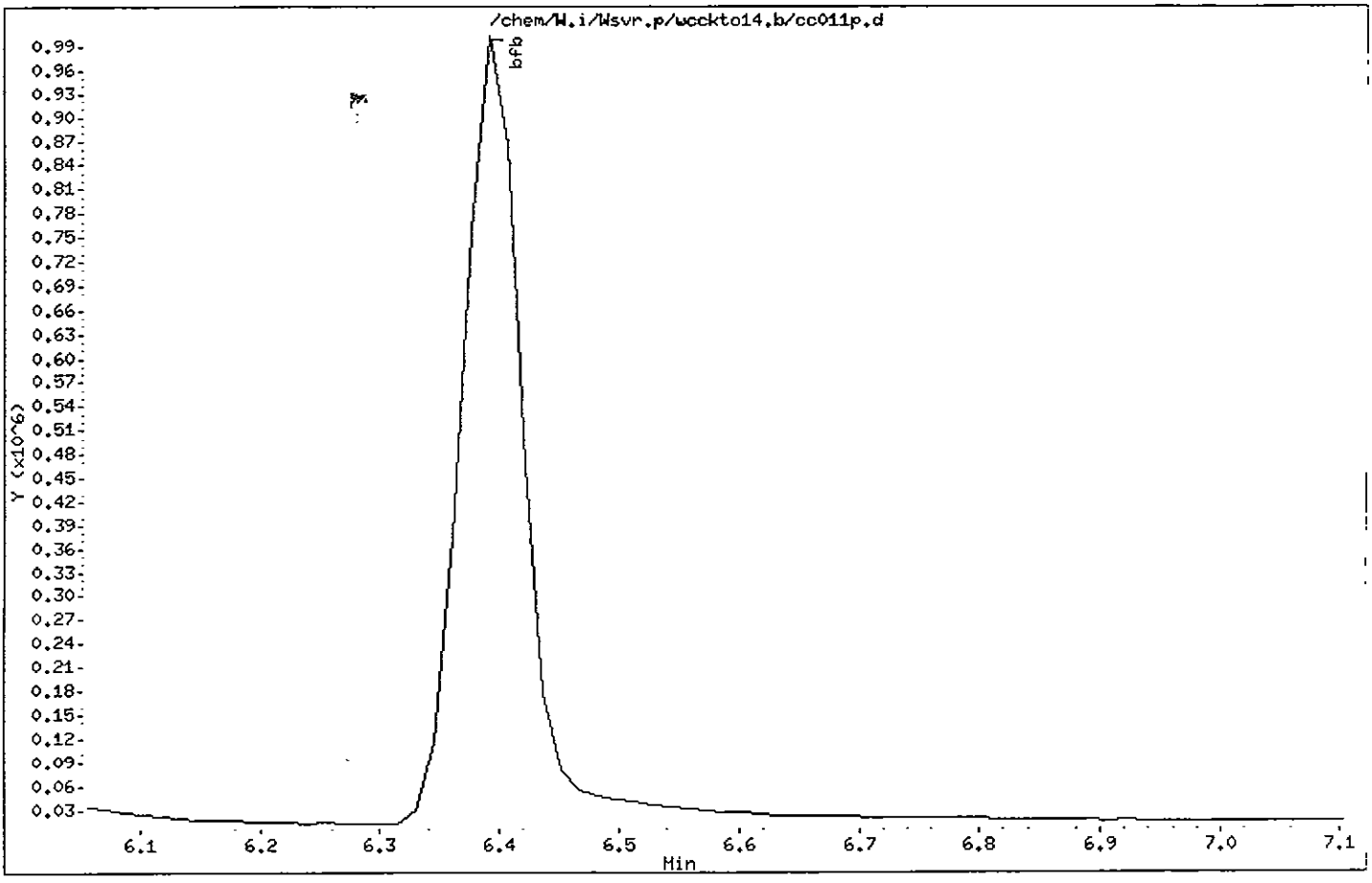
Instrument: W.i

Sample Info: WBFB011

Operator: GMH

Column phase: DB-1

Column diameter: 0.32



FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

STLVT SAMPLE NO.

ABLKE1

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 80293

Matrix: (soil/water) AIR Lab Sample ID: ABLKE1

Sample wt/vol: 200 (g/mL) ML Lab File ID: CCB001K

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

% Moisture: not dec. _____ Date Analyzed: 10/30/00

GC Column: DB-1 ID: 0.35 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) PPBV	Q
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl Chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-09-2	Methylene Chloride	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
56-23-5	Carbon Tetrachloride	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-88-3	Toluene	0.50	U
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
1330-20-7	Xylene (total)	0.50	U
100-42-5	Styrene	0.50	U
1330-20-7	Xylene (m,p)	0.50	U
95-47-6	Xylene (o)	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

STLVT SAMPLE NO.

ABLKE1

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 80293

Matrix: (soil/water) AIR Lab Sample ID: ABLKE1

Sample wt/vol: 200 (g/mL) ML Lab File ID: CCB001K

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

% Moisture: not dec. _____ Date Analyzed: 10/30/00

GC Column: DB-1 ID: 0.35 (mm) Dilution Factor: 1.0

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

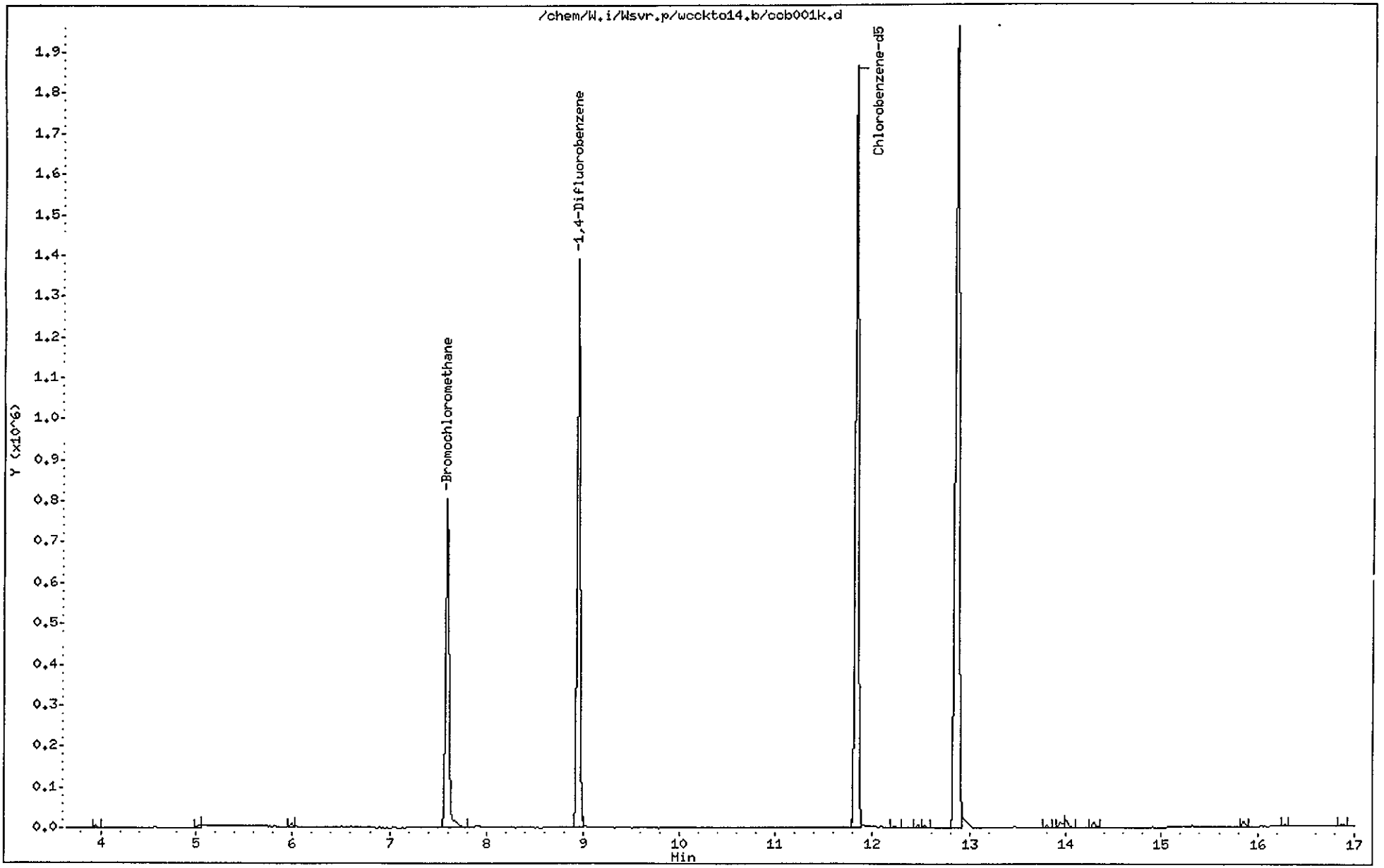
Number TICs found: 0

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

	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.					

Data File: /chem/W.i/Wsvr.p/wcckto14.b/ccb001k.d
Date : 30-OCT-2000 11:13
Client ID: ABLKE1
Sample Info: ABLKE1;ABLKE1;;1030E1
Purge Volume: 200.0
Column phase: DB-1

Instrument: W.i
Operator: GMM
Column diameter: 0.35



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STL Burlington

AIR TOXICS QUANTITATION REPORT

Data file : /chem/W.i/Wsvr.p/wcckto14.b/ccb001k.d
Lab Smp Id: ABLKE1 Client Smp ID: ABLKE1
Inj Date : 30-OCT-2000 11:13
Operator : GMM Inst ID: W.i
Smp Info : ABLKE1;ABLKE1;;1030E1
Misc Info :
Comment :
Method : /chem/W.i/Wsvr.p/wcckto14.b/ato14.m
Meth Date : 06-Nov-2000 12:30 cmp Quant Type: ISTD
Cal Date : 26-SEP-2000 10:26 Cal File: cc0005i2.d
Als bottle: 1 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ACCANA2.sub
Target Version: 3.50
Processing Host: chemsvr4

Concentration Formula: Amt * DF * X* Uf/Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
X	200.00000	method volume factor
Uf	1.00000	ng unit correction factor
Vo	200.00000	Sample Volume purged (mL)

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)
2	Chloromethane	50	Compound Not Detected.					
4	Vinyl Chloride	62	Compound Not Detected.					
5	Bromomethane	94	Compound Not Detected.					
6	Chloroethane	64	Compound Not Detected.					
7	Trichlorofluoromethane	101	Compound Not Detected.					
9	Methylene Chloride	49	Compound Not Detected.					
11	1,1-Dichloroethane	63	Compound Not Detected.					
12	cis-1,2-Dichloroethene	61	Compound Not Detected.					
* 13	Bromochloromethane	128	7.590	7.698	(1.000)	271817	10.0000	
14	Chloroform	83	Compound Not Detected.					
15	1,2-Dichloroethane	62	Compound Not Detected.					
16	1,1,1-Trichloroethane	97	Compound Not Detected.					
17	Benzene	78	Compound Not Detected.					
18	Carbon Tetrachloride	117	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)
*	19 1,4-Difluorobenzene	114	8.941	9.003	(1.000)	1273746	10.0000	
	20 1,2-Dichloropropane	63	Compound Not Detected.					
	21 Trichloroethene	95	Compound Not Detected.					
	22 cis-1,3-Dichloropropene	75	Compound Not Detected.					
	23 trans-1,3-Dichloropropene	75	Compound Not Detected.					
	24 1,1,2-Trichloroethane	83	Compound Not Detected.					
	25 Toluene	92	Compound Not Detected.					
	27 Tetrachloroethene	166	Compound Not Detected.					
*	28 Chlorobenzene-d5	117	11.840	11.841	(1.000)	1356799	10.0000	
	29 Chlorobenzene	112	Compound Not Detected.					
	30 Ethylbenzene	91	Compound Not Detected.					
	31 Xylene (m,p)	106	Compound Not Detected.					
	32 Styrene	104	Compound Not Detected.					
M	33 Xylene (total)	106	Compound Not Detected.					
	34 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					
	35 Xylene (o)	106	Compound Not Detected.					
	38 1,3-Dichlorobenzene	146	Compound Not Detected.					
	39 1,4-Dichlorobenzene	146	Compound Not Detected.					
	40 1,2-Dichlorobenzene	146	Compound Not Detected.					

STL Burlington

AIR TOXICS QUANTITATION REPORT

Data file : /chem/W.i/Wsvr.p/wcckto14.b/ccb001k.d
Lab Smp Id: ABLKE1 Client Smp ID: ABLKE1
Inj Date : 30-OCT-2000 11:13
Operator : GMM Inst ID: W.i
Smp Info : ABLKE1;ABLKE1;;1030E1
Misc Info :
Comment :
Method : /chem/W.i/Wsvr.p/wcckto14.b/ato14.m
Meth Date : 05-Nov-2000 15:37 cmp Quant Type: ISTD
Cal Date : 26-SEP-2000 10:26 Cal File: cc0005i2.d
Als bottle: 1 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ACCANA.sub
Target Version: 3.50
Processing Host: chemsvr4

- NO TENTATIVELY IDENTIFIED COMPOUNDS -

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

STLVT SAMPLE NO.

Y6_ICVLCS

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 80293

Matrix: (soil/water) AIR Lab Sample ID: Y6_ICVLCS

Sample wt/vol: 200 (g/mL) ML Lab File ID: CC010Q

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

% Moisture: not dec. _____ Date Analyzed: 09/26/00

GC Column: DB-1 ID: 0.35 (mm) Dilution Factor: 1.0

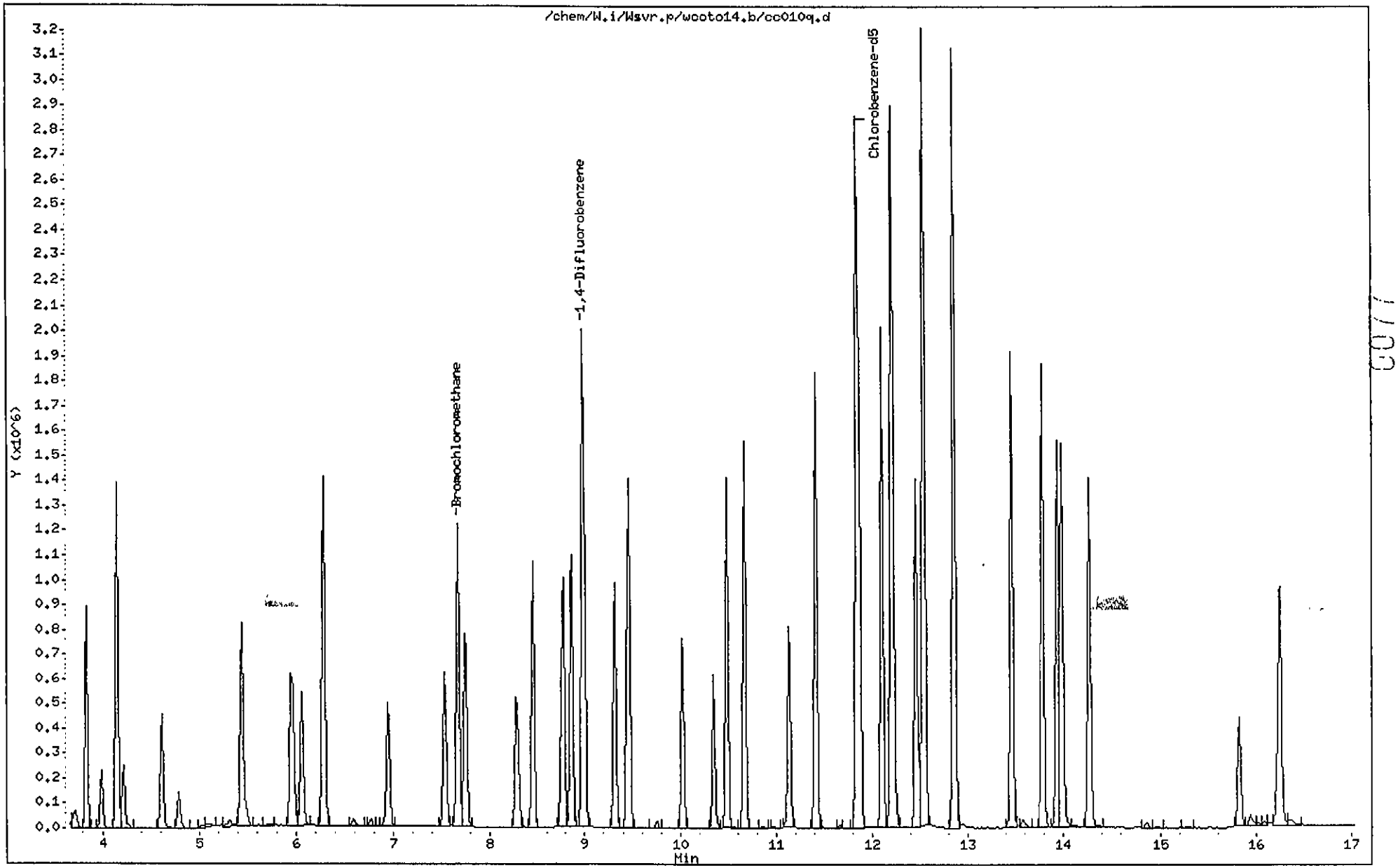
Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) PPBV	Q
74-87-3	Chloromethane	9.3	
75-01-4	Vinyl Chloride	9.5	
74-83-9	Bromomethane	10	
75-00-3	Chloroethane	10	
75-69-4	Trichlorofluoromethane	10	
75-09-2	Methylene Chloride	9.5	
75-34-3	1,1-Dichloroethane	9.8	
156-59-2	cis-1,2-Dichloroethene	9.8	
67-66-3	Chloroform	9.7	
71-55-6	1,1,1-Trichloroethane	9.6	
56-23-5	Carbon Tetrachloride	9.7	
71-43-2	Benzene	9.8	
107-06-2	1,2-Dichloroethane	9.7	
79-01-6	Trichloroethene	10	
78-87-5	1,2-Dichloropropane	10	
10061-01-5	cis-1,3-Dichloropropene	11	
108-88-3	Toluene	10	
10061-02-6	trans-1,3-Dichloropropene	10	
79-00-5	1,1,2-Trichloroethane	11	
127-18-4	Tetrachloroethene	9.0	
108-90-7	Chlorobenzene	9.4	
100-41-4	Ethylbenzene	10	
1330-20-7	Xylene (total)	29	
100-42-5	Styrene	10	
1330-20-7	Xylene (m,p)	19	
95-47-6	Xylene (o)	9.6	
79-34-5	1,1,2,2-Tetrachloroethane	9.8	
541-73-1	1,3-Dichlorobenzene	9.8	
106-46-7	1,4-Dichlorobenzene	9.7	
95-50-1	1,2-Dichlorobenzene	10	

Data File: /chem/W.i/Wsvr.p/wccto14.b/cc010q.d
Date : 26-SEP-2000 11:54
Client ID: Y6_ICV
Sample Info: Y6_ICVLCS
Purge Volume: 200.0
Column phase: DB-1

Instrument: W.i

Operator: GMM
Column diameter: 0.35



STL Burlington

AIR TOXICS QUANTITATION REPORT

Data file : /chem/W.i/Wsvr.p/wccto14.b/cc010q.d
Lab Smp Id: Y6_ICV Client Smp ID: Y6_ICV
Inj Date : 26-SEP-2000 11:54
Operator : GMM Inst ID: W.i
Smp Info : Y6_ICVLCS
Misc Info :
Comment :
Method : /chem/W.i/Wsvr.p/wccto14.b/ato14.m
Meth Date : 09-Oct-2000 12:02 cmp Quant Type: ISTD
Cal Date : 26-SEP-2000 10:26 Cal File: cc0005i2.d
Als bottle: 1 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50
Processing Host: chemsvr4

Concentration Formula: Amt * DF * X* Uf/Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
X	200.00000	method volume factor
Uf	1.00000	ng unit correction factor
Vo	200.00000	Sample Volume purged (mL)

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	FINAL (ppbv)
1	Dichlorodifluoromethane	85	3.838	3.881	(0.501)	852794	11.2085	11
2	Chloromethane	50	3.997	4.040	(0.521)	225832	9.30468	9.3
3	Dichlorotetrafluoroethane	85	4.155	4.198	(0.542)	885356	9.52382	9.5
4	Vinyl Chloride	62	4.227	4.271	(0.551)	252533	9.47469	9.5
5	Bromomethane	94	4.617	4.660	(0.602)	355561	10.1604	10
6	Chloroethane	64	4.790	4.833	(0.625)	159192	9.99951	10
7	Trichlorofluoromethane	101	5.450	5.482	(0.711)	824757	10.0126	10
8	1,1-Dichloroethene	96	5.966	5.998	(0.778)	310363	10.1329	10
9	Methylene Chloride	49	6.057	6.089	(0.790)	338324	9.52735	9.5
10	Freon TF	101	6.285	6.317	(0.820)	698396	9.84890	9.8
11	1,1-Dichloroethane	63	6.938	6 969	(0.905)	570924	9.84805	9.8
12	cis-1,2-Dichloroethene	61	7.529	7.561	(0.982)	431710	9.75453	9.8
* 13	Bromochloromethane	128	7.666	7.698	(1.000)	367284	10.0000	
14	Chloroform	83	7.742	7.774	(1.010)	741623	9.70164	9.7

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	FINAL (ppbv)
15	1,2-Dichloroethane	62	8.273	8.305	(1.079)	484422	9.70101	9.7
16	1,1,1-Trichloroethane	97	8.455	8.472	(1.103)	680932	9.64544	9.6
17	Benzene	78	8.774	8.790	(0.976)	1003825	9.80817	9.8
18	Carbon Tetrachloride	117	8.865	8.881	(0.986)	699514	9.69084	9.7
* 19	1,4-Difluorobenzene	114	8.986	9.003	(1.000)	1662929	10.0000	
20	1,2-Dichloropropane	63	9.320	9.321	(1.037)	392174	10.4786	10
21	Trichloroethene	95	9.457	9.473	(1.052)	462379	10.0651	10
22	cis-1,3-Dichloropropene	75	10.018	10.035	(1.115)	526190	10.6646	11
23	trans-1,3-Dichloropropene	75	10.352	10.369	(1.152)	364122	10.5011	10
24	1,1,2-Trichloroethane	83	10.489	10.490	(1.167)	408671	10.7026	11
25	Toluene	92	10.671	10.672	(0.901)	769052	10.1551	10
26	1,2-Dibromoethane	107	11.126	11.143	(0.940)	689824	9.76007	9.8
27	Tetrachloroethene	166	11.414	11.416	(0.964)	573388	9.03048	9.0
* 28	Chlorobenzene-d5	117	11.839	11.841	(1.000)	1786026	10.0000	
29	Chlorobenzene	112	11.870	11.871	(1.003)	992216	9.37387	9.4
30	Ethylbenzene	91	12.097	12.099	(1.022)	1724238	10.1065	10
31	Xylene (m,p)	106	12.219	12.220	(1.032)	1264507	19.3130	19
32	Styrene	104	12.462	12.463	(1.053)	834283	10.3617	10
M 33	Xylene (total)	106				1883297	28.9464	29
34	1,1,2,2-Tetrachloroethane	83	12.522	12.524	(1.058)	1076533	9.83618	9.8
35	Xylene (o)	106	12.537	12.539	(1.059)	618790	9.63348	9.6
36	1,3,5-Trimethylbenzene	105	13.448	13.449	(1.136)	1374275	10.2452	10
37	1,2,4-Trimethylbenzene	105	13.782	13.783	(1.164)	1341488	9.93350	9 9
38	1,3-Dichlorobenzene	146	13.934	13.935	(1.177)	1002167	9.78768	9 8
39	1,4-Dichlorobenzene	146	13.979	13.980	(1.181)	888943	9.71851	9.7
40	1,2-Dichlorobenzene	146	14.267	14.269	(1.205)	785231	10.1198	10
41	1,2,4-Trichlorobenzene	180	15.831	15.832	(1.337)	192811	9.95777	10
42	Hexachlorobutadiene	225	16.255	16.257	(1.373)	248382	9.74538	9.7

STL Burlington

RECOVERY REPORT

Client Name:
Sample Matrix: GAS
Lab Smp Id: Y6_ICV
Level: LOW
Data Type: MS DATA
SpikeList File: all.spk
Sublist File: all.sub
Method File: /chem/W.i/Wsvr.p/wccto14.b/ato14.m
Misc Info:

Client SDG: wccto14
Fraction: VOA
Client Smp ID: Y6_ICV
Operator: GMM
SampleType: LCS
Quant Type: ISTD

SPIKE COMPOUND	CONC ADDED ppbv	CONC RECOVERED ppbv	% RECOVERED	LIMITS
1 Dichlorodifluorome	10	11	112.08	70-130
2 Chloromethane	10	9.3	93.05	70-130
3 Dichlorotetrafluor	10	9.5	95.24	70-130
4 Vinyl Chloride	10	9.5	94.75	70-130
5 Bromomethane	10	10	101.60	70-130
6 Chloroethane	10	10	100.00	70-130
7 Trichlorofluoromet	10	10	100.13	70-130
8 1,1-Dichloroethene	10	10	101.33	70-130
9 Methylene Chloride	10	9.5	95.27	70-130
10 Freon TF	10	9.8	98.49	70-130
11 1,1-Dichloroethane	10	9.8	98.48	70-130
12 cis-1,2-Dichloroet	10	9.8	97.55	70-130
14 Chloroform	10	9.7	97.02	70-130
15 1,2-Dichloroethane	10	9.7	97.01	70-130
16 1,1,1-Trichloroeth	10	9.6	96.45	70-130
17 Benzene	10	9.8	98.08	70-130
18 Carbon Tetrachlori	10	9.7	96.91	70-130
20 1,2-Dichloropropan	10	10	104.79	70-130
21 Trichloroethene	10	10	100.65	70-130
22 cis-1,3-Dichloropr	10	11	106.65	70-130
23 trans-1,3-Dichloro	10	10	105.01	70-130
24 1,1,2-Trichloroeth	10	11	107.03	70-130
25 Toluene	10	10	101.55	70-130
26 1,2-Dibromoethane	10	9.8	97.60	70-130
27 Tetrachloroethene	10	9.0	90.30	70-130
29 Chlorobenzene	10	9.4	93.74	70-130
30 Ethylbenzene	10	10	101.06	70-130
31 Xylene (m,p)	20	19	96.56	70-130
32 Styrene	10	10	103.62	70-130
34 1,1,2,2-Tetrachlor	10	9.8	98.36	70-130
35 Xylene (o)	10	9.6	96.33	70-130
36 1,3,5-Trimethylben	10	10	102.45	70-130
37 1,2,4-Trimethylben	10	9.9	99.33	70-130

SPIKE COMPOUND	CONC ADDED ppbv	CONC RECOVERED ppbv	% RECOVERED	LIMITS
38 1,3-Dichlorobenzen	10	9.8	97.88	70-130
39 1,4-Dichlorobenzen	10	9.7	97.19	70-130
40 1,2-Dichlorobenzen	10	10	101.20	70-130
41 1,2,4-Trichloroben	10	10	99.58	70-130
42 Hexachlorobutadien	10	9.7	97.45	70-130

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

STLVT SAMPLE NO.

E1_LCS

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 80293

Matrix: (soil/water) AIR Lab Sample ID: E1_LCS

Sample wt/vol: 200 (g/mL) ML Lab File ID: CC010KQ

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

% Moisture: not dec. _____ Date Analyzed: 10/30/00

GC Column: DB-1 ID: 0.35 (mm) Dilution Factor: 1.0

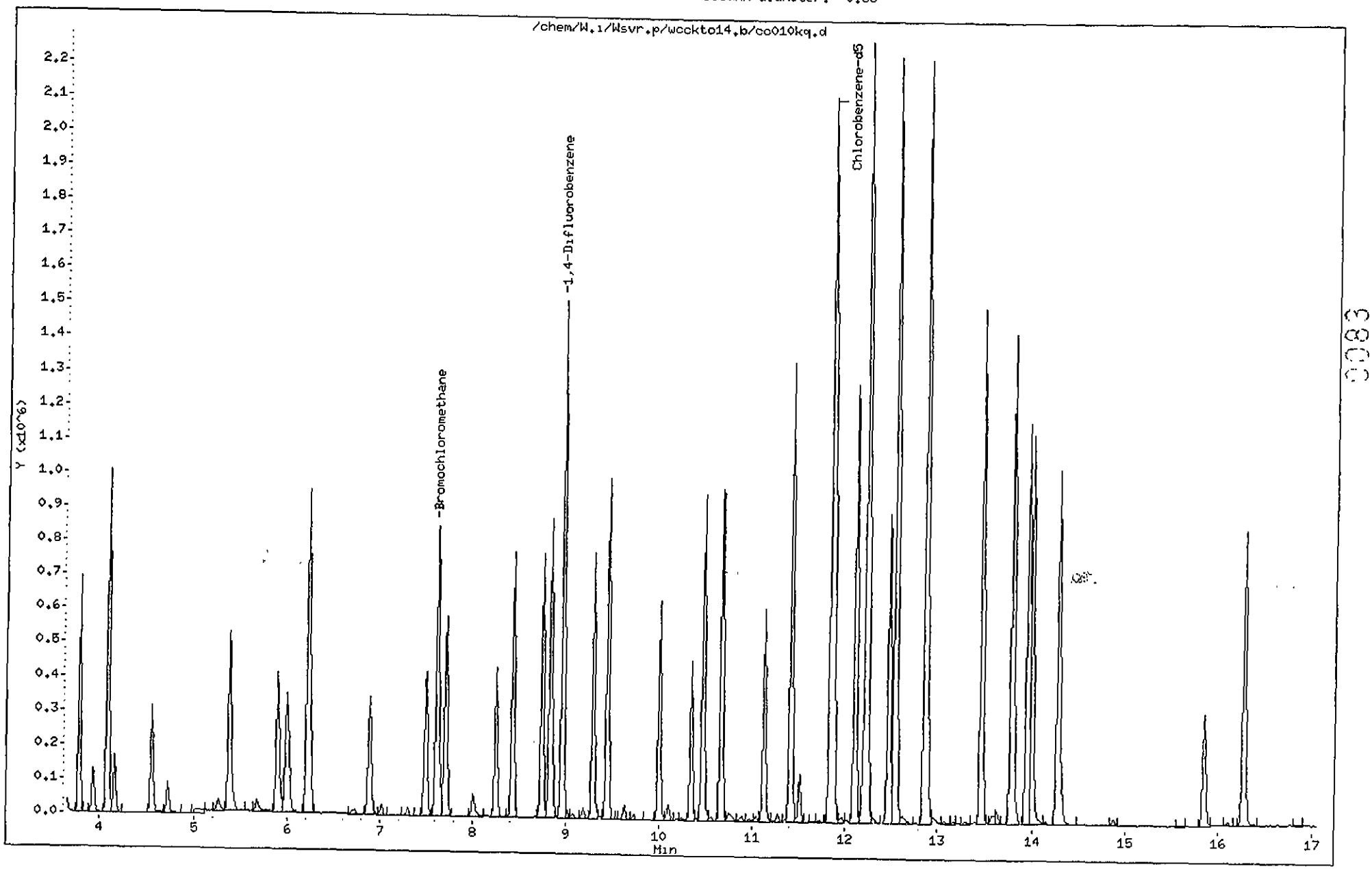
Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) PPBV	Q
74-87-3	Chloromethane	8.5	
75-01-4	Vinyl Chloride	8.8	
74-83-9	Bromomethane	8.8	
75-00-3	Chloroethane	8.4	
75-69-4	Trichlorofluoromethane	9.3	
75-09-2	Methylene Chloride	9.2	
75-34-3	1,1-Dichloroethane	9.6	
156-59-2	cis-1,2-Dichloroethene	9.7	
67-66-3	Chloroform	9.6	
71-55-6	1,1,1-Trichloroethane	10	
56-23-5	Carbon Tetrachloride	9.8	
71-43-2	Benzene	9.0	
107-06-2	1,2-Dichloroethane	10	
79-01-6	Trichloroethene	9.8	
78-87-5	1,2-Dichloropropane	9.2	
10061-01-5	cis-1,3-Dichloropropene	10	
108-88-3	Toluene	9.5	
10061-02-6	trans-1,3-Dichloropropene	11	
79-00-5	1,1,2-Trichloroethane	9.8	
127-18-4	Tetrachloroethene	8.9	
108-90-7	Chlorobenzene	8.9	
100-41-4	Ethylbenzene	9.9	
1330-20-7	Xylene (total)	28	
100-42-5	Styrene	10	
1330-20-7	Xylene (m,p)	18	
95-47-6	Xylene (o)	9.3	
79-34-5	1,1,2,2-Tetrachloroethane	9.3	
541-73-1	1,3-Dichlorobenzene	9.7	
106-46-7	1,4-Dichlorobenzene	9.6	
95-50-1	1,2-Dichlorobenzene	10	

Data File: /chem/W.i/Wsvr.p/wcckto14.b/cc010kq.d
Date : 30-OCT-2000 10:41
Client ID: E1_LCS
Sample Info: E1_LCS;E1_LCS
Purge Volume: 200.0
Column phase: DB-1

Instrument: W.i

Operator: GMM
Column diameter: 0.35



STL Burlington

AIR TOXICS QUANTITATION REPORT

Data file : /chem/W.i/Wsvr.p/wcckto14.b/cc010kq.d
Lab Smp Id: E1_LCS Client Smp ID: E1_LCS
Inj Date : 30-OCT-2000 10:41
Operator : GMM Inst ID: W.i
Smp Info : E1_LCS;E1_LCS
Misc Info :
Comment :
Method : /chem/W.i/Wsvr.p/wcckto14.b/ato14.m
Meth Date : 06-Nov-2000 12:30 cmp Quant Type: ISTD
Cal Date : 26-SEP-2000 10:26 Cal File: cc0005i2.d
Als bottle: 1 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ACCANA2.sub
Target Version: 3.50
Processing Host: chemsvr4

Concentration Formula: Amt * DF * X* Uf/Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
X	200.00000	method volume factor
Uf	1.00000	ng unit correction factor
Vo	200.00000	Sample Volume purged (mL)

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	FINAL (ppbv)
2	Chloromethane	50	3.925	4.040	(0.515)	147985	8.49762	8.5
4	Vinyl Chloride	62	4.156	4.271	(0.545)	169328	8.85399	8.8
5	Bromomethane	94	4.545	4.660	(0.596)	220362	8.77602	8.8
6	Chloroethane	64	4.718	4.833	(0.619)	96482	8.44632	8.4
7	Trichlorofluoromethane	101	5.375	5.482	(0.705)	551242	9.32665	9.3
9	Methylene Chloride	49	5.997	6.089	(0.787)	233530	9.16528	9.2
11	1,1-Dichloroethane	63	6.893	6.969	(0.904)	397319	9.55157	9.6
12	cis-1,2-Dichloroethene	61	7.500	7.561	(0.984)	309453	9.74479	9.7
* 13	Bromochloromethane	128	7.621	7.698	(1.000)	263535	10.0000	
14	Chloroform	83	7.712	7.774	(1.012)	524639	9.56503	9.6
15	1,2-Dichloroethane	62	8.243	8.305	(1.082)	358422	10.0035	10
16	1,1,1-Trichloroethane	97	8.425	8.472	(1.106)	515401	10.1748	10
17	Benzene	78	8.744	8.790	(0.976)	688910	8.95342	9.0
18	Carbon Tetrachloride	117	8.835	8.881	(0.986)	531092	9.78659	9.8

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)
*	19 1,4-Difluorobenzene	114	8.957	9.003	(1.000)	1250193	10.0000	
	20 1,2-Dichloropropane	63	9.290	9.321	(1.037)	259198	9.21196	9.2
	21 Trichloroethene	95	9.442	9.473	(1.054)	339648	9.83431	9.8
	22 cis-1,3-Dichloropropene	75	10.004	10.035	(1.117)	386831	10.4285	10
	23 trans-1,3-Dichloropropene	75	10.338	10.369	(1.154)	282054	10.8197	11
	24 1,1,2-Trichloroethane	83	10.474	10.490	(1.169)	282482	9.84016	9.8
	25 Toluene	92	10.671	10.672	(0.901)	540313	9.48576	9.5
	27 Tetrachloroethene	166	11.415	11.416	(0.964)	424829	8.89555	8.9
*	28 Chlorobenzene-d5	117	11.840	11.841	(1.000)	1343356	10.0000	
	29 Chlorobenzene	112	11.870	11.871	(1.003)	711199	8.93307	8.9
	30 Ethylbenzene	91	12.098	12.099	(1.022)	1274394	9.93121	9.9
	31 Xylene (m,p)	106	12.219	12.220	(1.032)	915657	18.5933	18
	32 Styrene	104	12.477	12.463	(1.054)	612836	10.1195	10
M	33 Xylene (total)	106				1364718	27.8882	28
	34 1,1,2,2-Tetrachloroethane	83	12.538	12.524	(1.059)	768924	9.34026	9.3
	35 Xylene (o)	106	12.553	12.539	(1.060)	449061	9.29484	9.3
	38 1,3-Dichlorobenzene	146	13.949	13.935	(1.178)	744168	9.66289	9.7
	39 1,4-Dichlorobenzene	146	13.995	13.980	(1.182)	661714	9.61818	9.6
	40 1,2-Dichlorobenzene	146	14.283	14.269	(1.206)	600872	10.2956	10

STL Burlington

RECOVERY REPORT

Client Name: STLVT
Sample Matrix: GAS
Lab Smp Id: E1_LCS
Level: LOW
Data Type: MS DATA
SpikeList File: ACCANA2.spk
Sublist File: ACCANA2.sub
Method File: /chem/W.i/Wsvr.p/wcckto14.b/ato14.m
Misc Info:

Client SDG: wcckto14
Fraction: VOA
Client Smp ID: E1_LCS
Operator: GMM
SampleType: LCS
Quant Type: ISTD

SPIKE COMPOUND	CONC ADDED ppbv	CONC RECOVERED ppbv	% RECOVERED	LIMITS
2 Chloromethane	10	8.5	84.98	70-130
4 Vinyl Chloride	10	8.8	88.54	70-130
5 Bromomethane	10	8.8	87.76	70-130
6 Chloroethane	10	8.4	84.46	70-130
7 Trichlorofluoromet	10	9.3	93.27	70-130
9 Methylene Chloride	10	9.2	91.65	70-130
11 1,1-Dichloroethane	10	9.6	95.52	70-130
12 cis-1,2-Dichloroet	10	9.7	97.45	70-130
14 Chloroform	10	9.6	95.65	70-130
15 1,2-Dichloroethane	10	10	100.03	70-130
16 1,1,1-Trichloroeth	10	10	101.75	70-130
17 Benzene	10	9.0	89.53	70-130
18 Carbon Tetrachlori	10	9.8	97.87	70-130
20 1,2-Dichloropropan	10	9.2	92.12	70-130
21 Trichloroethene	10	9.8	98.34	70-130
22 cis-1,3-Dichloropr	10	10	104.28	70-130
23 trans-1,3-Dichloro	10	11	108.20	70-130
24 1,1,2-Trichloroeth	10	9.8	98.40	70-130
25 Toluene	10	9.5	94.86	70-130
27 Tetrachloroethene	10	8.9	88.96	70-130
29 Chlorobenzene	10	8.9	89.33	70-130
30 Ethylbenzene	10	9.9	99.31	70-130
31 Xylene (m,p)	20	18	92.97	70-130
32 Styrene	10	10	101.20	70-130
34 1,1,2,2-Tetrachlor	10	9.3	93.40	70-130
35 Xylene (o)	10	9.3	92.95	70-130
38 1,3-Dichlorobenzen	10	9.7	96.63	70-130
39 1,4-Dichlorobenzen	10	9.6	96.18	70-130
40 1,2-Dichlorobenzen	10	10	102.96	70-130

SEVERN
TRENT
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Severn Trent Laboratories, Inc.

SAMPLE PREPARATION

Severn Trent Laboratories-VT
Instrument Run Log
Instrument w

Batch: wcct014
Opened: 9 / 26 / 00 **Time:** 0724
Closed: 9 / 27 / 00 **Time:** 0724

ETR #	SDG #
79858	—
79870	79870

Tune: ✓ 263K
ISTD Tag # ; 01-1388

Temp. 19.5 °C B P. 29.91"Hg

INJ. TIME	LAB ID	CAN ID #	CLIENT ID	ETR #	INLET #	SAMPLE VOLUME (mL)	DILUTION FACTOR	ISTD RECOVERY	CONC	ANALYST	COMMENTS
0724	cc001p	n/a	XBFB001	n/a	n/a	n/a	n/a	n/a	✓	Emm	
0745	CC0005	6069	ASTD0005		4	20		✓	↓		AT0920000
0814	CC005	6101	005		3	25		✓	✓		AT0919000
0844	CC010		010			50		✓	✓		
0915	CC020		020			100		✓	✓		
0948	CC040	↓	↓ 040		↓	200		✓	✓		
1026	CC0005i2	6069	ASTD0005		4	20		✓	✓		
1154	CC010q	6062	Y6-1CV		2	200		✓	✓		AT0909000C
1250	CCb001	n/a	ABKY6	↓	1	200	↓	✓	↑ *		MeCl2 @ 1.2
1326	ccb002	↓	↓	n/a	1	200	n/a	✓	↑ *		MeCl2 Ck per SOP
1400	431018	6052	D-19	79858	2	200	1:1	✓	✓		c
1433	431019	6159	M-20		3			✓	✓		c
1507	431020	6170	K-16		4			✓	✓		c
1540	431021	6100	G-11		5			✓	✓		c
1614	431022	6172	E-17		6			✓	✓		c
1648	431023	6101	H-19		7			✓	✓		c
~~1718~~	~~431024~~	~~6046~~	~~TripBlank~~		~~8~~			~~✓~~			Emm
1751	431130	6161	Room37	79870	9	↓	↓	✓	✓	↓	c

0088

Severn Trent Laboratories-VT

Instrument Run Log

Instrument ω

Batch: ωcc1014

Opened: 9 / 26 / 00 **Time:** 0724

Closed: 9 / 27 / 00 **Time:** 0724

ETR #	SDG #

Tune: ✓

ISTD Tag #: 01-1388

Temp 19.5 °C B P 34.91" Hg

INJ. TIME	LAB ID	CAN ID #	CLIENT ID	ETR #	INLET #	SAMPLE VOLUME (mL)	DILUTION FACTOR	ISTD RECOVERY	CONC	ANALYST	COMMENTS
1825	431131	6151	Room 30	79870	10	200	1.1	✓	✓	Emm	c
1858	431132	6163	Room 58B	↓	11	↓	↓	✓	✓	↓	c
1931	431133	6134	Room 85		12			✓	✓		c
2005	431134	6140	Outside S.		13			✓	✓		c
2038	431135	6115	Room 39	↓	14	↓	↓	✓	✓		c
2112	napo10	na	Naphalene	na	16	200	na	✓	✓	↓	

Amm 092700

0055

Severn Trent Laboratories-VT
Instrument Run Log
Instrument w

Batch: week+014
Opened: 10 / 30 / 00 **Time:** 0141
Closed: 10 / 31 / 00 **Time:** 0947

ETR #	SDG #
80292	80292
80293	80293
80352	80292

Tune. ✓
ISTD Tag #: 01-1385

Temp. 19.5 °C B.P.: 29.94 "Hg

INJ. TIME	LAB ID	CAN ID #	CLIENT ID	ETR #	INLET #	SAMPLE VOLUME (mL)	DILUTION FACTOR	ISTD RECOVERY	CONC.	ANALYST	COMMENTS
0947	cc011p	n/a	WBFB011	n/a	Na	Na	Na	Na	✓	6mm	
1009	cc010k	6101	ASTD010		2	50		✓	✓		A7090900001
1041	cc010kg	6071	EI_LCS		3	200		✓	✓		A7090900002
1113	cc001K	n/a	ABLKE1	↓	1	200	↓	✓	✓		
1146	434686	6128	-106JA-	80292	3	200	1:1	✓	✓		c
1218	434687	6141	-106EIA-	↓	5	200	1:1	✓	✓		c
1343	434688	6136	-ACAIA1-	80293	6	200	1:1	✓	✓		c
1418	434689	6142	-ACATA2-		7	200	1:1	✓	✓		c
1504	434690	6130	ACAEA1-	↓	8	200	1:1	✓	✓		c
1549	435318	6057	-SVE1780IA-	80352	9			✓	✓		c
1649	435319	6143	SVE2760IA-		10			✓	✓		c
1722	435320	6157	-ASI780-		11			✓	↑		cis 1,2 630
1755	435321	6049	-TMX176-	↓	12	↓	↓	✓	✓		c
1617	cc010kg2	6071	LCSDup	Na	3	200	Na	✓	✓	↓	LCSdup run to confirm system OK
	4mm 10/31/00										

alysis Creation and Modification - Current Information
:ura Analytical Laboratory, Inc.
:r: Wilm ıth, Jeff
:e: 05/09 2000 Time: 14:23

alysis code: $VC33-2

ıded Anlysis: **$VC33-2**

Last modified on: **05/03/2000 13:21** by user: **JW**

alysis name: **VOC's In Air (ppbv)**
)artment: **SUB**
.hod reference: **TO-14A**
alysis hold days: **14**

Reportable: **yes**
Invoiceable: **yes**
List price: **0.00**
Work units: **0.00**

ecial information form:

)orting units: **ppbv**
ault MDL: **0.50**
ınd off for calculations: **2 significant figures**

nponent list source file: **NONE**
)ort all specified components: **yes**
l unspecified components to report: **yes**

nponent List:

Component Name	Comp Abbreviation	Comp MDL	CAS Number
1,1,1-Trichloroethane		0.50	71-55-6
1,1,2,2-Tetrachloroethane		0.50	79-34-5
1,1,2-Trichloroethane		0.50	79-00-5
1,1-Dichloroethane		0.50	75-34-3
1,2-Dichlorobenzene		0.50	95-50-1
1,2-Dichloroethane		0.50	107-06-2
1,2-Dichloropropane		0.50	78-87-5
1,3-Dichlorobenzene		0.50	541-73-1
1,4-Dichlorobenzene		0.50	106-46-7
Benzene		0.50	71-43-2
Bromomethane		0.50	74-83-9
Carbon tetrachloride		0.50	56-23-5
Chlorobenzene		0.50	108-90-7
Chloroethane		0.50	75-00-3
Chloroform		0.50	67-66-3
Chloromethane		0.50	74-87-3
cis-1,3-Dichloropropene		0.50	10061-01-5
Ethylbenzene		0.50	100-41-4
Methylene chloride		0.50	75-09-2
Styrene		0.50	100-42-5
Tetrachloroethene		0.50	127-18-4
Toluene		0.50	108-88-3
trans-1,3-Dichloropropene		0.50	10061-02-6
Trichloroethene		0.50	79-01-6
Trichlorofluoromethane		0.50	75-69-4
Vinyl chloride		0.50	75-01-4
Xylenes (m,p)		0.50	1330-20-7
Xylenes (o)		0.50	95-47-6

culation Definition:

current calculation definition exists for analysis $VC33-2

ion and Modification - Current Information
dical Laboratory, Inc.
th, Jeff
2000 Time: 14:23

sis code: $VC33-2

ed Anlysis: **$VC33-2** Last modified on: **05/03/2000 13:21** by user: **JW**

sis name: **VOC's in Air (ppbv)**
rtment: **SUB**
od reference: **TO-14A**
sis hold days: **14**

Reportable: **yes**
Invoiceable: **yes**
List price: **0.00**
Work units: **0.00**

al information form:

rting units: **ppbv**
ult MDL: **0.50**
d off for calculations: **2 significant figures**

onent list source file: **NONE**
rt all specified components: **yes**
nspecified components to report: **yes**

to be added Percent Dwg filter W125100

ponent List:
cis 1,2-Dichloroethene 0.50

Component Name	Comp Abbreviation	Comp MDL	CAS Number
1,1,1-Trichloroethane		0.50	71-55-6
1,1,2,2-Tetrachloroethane		0.50	79-34-5
1,1,2-Trichloroethane		0.50	79-00-5
1,1-Dichloroethane		0.50	75-34-3
1,2-Dichlorobenzene		0.50	95-50-1
1,2-Dichloroethane		0.50	107-06-2
1,2-Dichloropropane		0.50	78-87-5
1,3-Dichlorobenzene		0.50	541-73-1
1,4-Dichlorobenzene		0.50	106-46-7
Benzene		0.50	71-43-2
Bromomethane		0.50	74-83-9
Carbon tetrachloride		0.50	56-23-5
Chlorobenzene		0.50	108-90-7
Chloroethane		0.50	75-00-3
Chloroform		0.50	67-66-3
Chloromethane		0.50	74-87-3
cis-1,3-Dichloropropene		0.50	10061-01-5
Ethylbenzene		0.50	100-41-4
Methylene chloride		0.50	75-09-2
Styrene		0.50	100-42-5
Tetrachloroethene		0.50	127-18-4
Toluene		0.50	108-88-3
trans-1,3-Dichloropropene		0.50	10061-02-6
Trichloroethene		0.50	79-01-6
Trichlorofluoromethane		0.50	75-69-4
Vinyl chloride		0.50	75-01-4
Xylenes (m,p)		0.50	1330-20-7
Xylenes (o)		0.50	95-47-6

ulation Definition:

urrent calculation definition exists for analysis $VC33-2

SEVERN
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SERVICES

Severn Trent Laboratories, Inc.

SAMPLE HANDLING

COPY - ORIGINAL ON FILE
SDG # 80292 ETR # 80292

PLEASE FOLD THIS SHIPPING DOCUMENT IN HALF AND PLACE IT IN A WAYBILL POUCH AFFIXED TO YOUR SHIPMENT SO THAT THE BAR-CODE PORTION OF THE LABEL CAN BE READ AND SCANNED. ***WARNING: USE ONLY THE PRINTED ORIGINAL LABEL FOR SHIPPING. USING A PHOTOCOPY OF THIS LABEL FOR SHIPPING PURPOSES IS FRAUDULENT AND COULD RESULT IN ADDITIONAL BILLING CHARGES, ALONG WITH THE CANCELLATION OF YOUR FEDEX ACCOUNT NUMBER.

FROM: Randy Dumaop (904)777-4812
CCI / J.A. Jones Environmental
6219 Authority Ave.
Building 1
Jacksonville, FL 32215

SHIPPER'S FEDEX ACCOUNT NUMBER

FedEx
Federal Express

TO: Ron Pentkowski (802)655-1203
Severn Trent Laboratories
208 South Park Drive
Suite 1
Colchester, VT 05446-

SHIP DATE: 19OCT00
MAN-WGT: 25 LBS

REF: 154282.99.22.01.01

DELIVERY ADDRESS BARCODE (FEDEX-EDR)

CAD # 3844729 **** 2DAY ****

MON
AA

TRK # **7903 8436 2472** FORM 0201

BTV

Deliver By:
23OCT00

05446-VT-US

KF BTVA

0094

SEVERN TRENT LABORATORIES LOG-IN SHEET - Form DC-1

Lab Name Severn Trent Laboratories - VT Page 1 of 1

Received By (Print Name) Jack L Dustin Log-in Date: 10/24/00

Received By (Signature): Jack L Dustin

Case Number: 20031

Sample Delivery Group No: 80293

ETR Number: 80293

CORRESPONDING			
CLIENT SAMPLE #	SAMPLE TAG #	ASSIGNED LAB #	REMARKS, CONDITION OF SAMPLE SHIPMENT, ETC.
029 ACAIA	10180005	434688	Were air bubbles present
029 ACA2IA	10180005	434689	in any VOA vials? NA
029 ACAEA	10180005	434690	Samples received intact in a box. Box received intact in as were custody Seals, Removed hyphens for truncation.

REMARKS

1. **Custody Seal** Present/~~Absent*~~ ~~Intact/Broken~~
2. **Custody Seal Nos.:** —
3. **Chain-of-Custody Records** Present/~~Absent*~~
4. **Sample Information Sheets** ~~Present~~/Absent*
5. **Airbill** ~~Airbill Sticker~~ Present/~~Absent*~~
6. **Airbill No.:** 790358436 2472
7. **Sample Tags** Present/~~Absent*~~
   Sample Tag Numbers ~~Listed~~/Not Listed on Chain-of-Custody
8. **Sample Condition:** Intact/~~Broken*~~ ~~Leaking~~
9. **Does information on the custody records, sample information sheets, sample tags and labels agree?** Yes/~~No*~~
10. **Date Received at Lab:** 10/23/00
11. **Time Received:** 0930
12. **Cooler Temperature:** NA Aircan

JLD 10/24/00

Sample Transfer

Fraction: All

Area #: LV1 4 Frig

By: Jack L Dustin

On: 10/23/00 0930

* Contact Project Director

Reviewed by: _____ Logbook No.: _____

Date _____ Logbook Page No.: _____

** COOLER RECEIPT CHECKLIST **

WERE CUSTODY SEALS PRESENT ON THE COOLERS?

(YES) NO

COPY - ORIGINAL ON FILE
SDG # 80292 ETR # 80292

IF SO, WERE THERE CUSTODY SEAL NUMBERS?

YES (NO)

LIST THE CUSTODY SEAL NUMBERS. _____ _____

WHAT TYPE OF COOLING WAS UTILIZED?

ICE MELTED ICE PACKS (NONE)

COOLER TEMPERATURE (degrees c): NA Air cans

DATE AND TIME COOLER RECEIVED: ~~9/23/00~~ 10/23/00 0930

DO SAMPLES APPEAR TO BE INTACT: (YES) NO

DO ANY SAMPLES HAVE SHORT HOLDING TIMES?
(less than seven days)

WET CHEM	**YES**	**(NO)**
EXTRACTABLES	**YES**	**(NO)**
UNPRES VOA	**(YES)**	**NO**

RADIATION SCREEN RESULTS <0.05 MR/HR (YES) NO

SEVERN TRENT SERVICES

STL Burlington
Suite 1
208 South Park Drive
Colchester, VT 05446

Tel: 802 655 1203
Fax: 802 655 1248
www.stl-inc.com

SAMPLE DATA SUMMARY PACKAGE

SDG NO: 801694

DEC 7 2000
CCI NAVY RAC PMO

SEVERN TRENT SERVICES

STL Burlington
208 South Park Drive
Suite 1
Colchester, VT 05446

Tel: 802 655 1203
Fax: 802 655 1248
www.stl-inc.com

November 29, 2000

Mr. David Fuller
Accura Analytical Laboratories
6017 Financial Drive
Norcross, GA 30071

Re: Laboratory Project No. 20031
Case: 20031; SDG: 80694

Dear Mr. Fuller:

Enclosed are the analytical results of samples received intact by Severn Trent Laboratories on November 16, 2000. Laboratory numbers have been assigned and designated as follows:

Lab ID	Client Sample ID	Sample Date	Sample Matrix
	Received: 11/16/00	ETR No: 80694	
438420	029ACAIA11130006	11/13/00	Air
438421	029ACA2IA11130006	11/13/00	Air
438422	029ACAEA11130006	11/13/00	Air

Method TO-14A Modified-Volatile Organics;
Please note that due to a limitation of characters inherent in the reporting software, some characters of the client identification above were truncated.

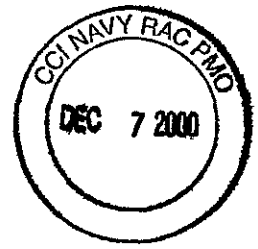
If there are any questions regarding this submittal, please contact Ron Pentkowski at (802) 655-1203.

This report shall not be reproduced, except in full, without the written approval of the laboratory. This report is sequentially numbered starting with page 001 and ending with page 129.

I certify that this package is in compliance with the NELAC requirements, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Director or his designee, as verified by the following signature.

Sincerely,

Christopher A. Ouellette
Laboratory Director



CH2M Hill Constructors, Inc.
115 Perimeter Center Place, Suite 700
Atlanta, GA 30346-1278
Tel No (770) 604-9182 . Fax No (770) 604-9282

CHAIN-OF-CUSTODY RECORD

AAL Project #26377

COC NUMBER: **154282-06**

PROJECT NAME	PROJECT NUMBER:	LAB NAME AND CONTACT	FAX AND MAIL REPORTS/EDD TO : RECIPIENT 1 (Name and Company)	RECIPIENT 1 (Address, Tel No , and Fax No)
N.A.S Cecil Field 103rd Street	154282	Severn Trent Laboratories/ Ron Pentkowski	Dave Accura Analytical Laboratory	6017 Financial Drive Norcross, GA 30071 (770) 449-8800 Fax:(770) 449-5477
PROJECT PHASE/SITE/TASK	CTO OR DO NUMBER	LAB PO NUMBER	FAX AND MAIL REPORTS/EDD TO RECIPIENT 2 (Name and Company)	RECIPIENT 2 (Address, Tel No. , and Fax No)
103rd Street Monthly Air	0029	1760	Jennifer Zimmerman / J.A Jones Env. Services	6219 Authority Ave. Building 1 Jacksonville, FL 32215 (904) 7774812 FAX: (904) 7774262
PROJECT CONTACT	PROJECT TEL NO AND FAX NO	LAB TEL NO AND FAX NO:	FAX AND MAIL REPORTS/EDD TO RECIPIENT 3 (Name and Company)	RECIPIENT 3 (Address, Tel No , and Fax No)
David Garrity	Ph:(904)777-4812 Fax:(904) 777-4262	Ph:(802) 655-1203	Jeff Wilmoth / CH2M Hill Constuctors, Inc.	115 Perimeter Center Place, N.E. Suite 700 Atlanta, GA 30346 (770)604-9182 Ext.561 FAX:604-9282

ANALYSES REQUIRED (Include Method Numbers)

ITEM	SAMPLE IDENTIFIER	SAMPLE DESCRIPTION/LOCATION	MATRIX (see codes on back)	DATE COLLECTED	TIME COLLECTED	DATA PKG LEVEL (see codes on back)	TAT (calendar days)	Volatiles by 18 / TO 14									SAMPLE TYPE (see codes on back)	COMMENTS/ SCREENING READINGS	LAB ID
1	029-ACA-I-A-1113-00-06	Pre Carbon Units	A	11/13/00	13:50	III/B	7	1									Grab	Summa Canister	AC 04392
2	029-ACA2-I-A-1113-00-06	Mid Carbon Units	A	11/13/00	13:55	III/B	7	1									Grab	Summa Canister	AC 04393
3	029-ACA-E-A-1113-00-06	Post Carbon Units	A	11/13/00	14:00	III/B	7	1									Grab	Summa Canister	AC 04394
4																			
5																			
6																			
7																			
8																			
9																			
10																			

SAMPLER(S) AND COMPANY (please print)	COURIER AND SHIPPING NUMBER	SAMPLES TEMPERATURE AND CONDITION UPON RECEIPT
Randy Dumaop J.A. Jones Environmental Services	Federal Express TRK# 790399462618	

RELINQUISHED BY	DATE	TIME	RECEIVED BY	DATE	TIME
Printed Name and Signature			Printed Name and Signature		
R.Dumaop	11/14/00	11:00	Federal Express	11/14/00	11:00
Printed Name and Signature			Printed Name and Signature		
Printed Name and Signature			Printed Name and Signature		
			Scott Lavigne	11/14/00	0930

Distribution: [ ] Original - Laboratory (To be returned with Analytical Report), [ ] Copy 1 - Project File, [ ] Copy 2 - PMO

Form CC1001, Rev 02/00

SEVERN TRENT SERVICES

Severn Trent Laboratories, Inc.

SAMPLE DATA SUMMARY PACKAGE

FOR TO-14A

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

ACCANA SAMPLE NO.

A2IA11130006

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 80694

Matrix: (soil/water) AIR Lab Sample ID: 438421

Sample wt/vol: 200 (g/mL) ML Lab File ID: 438421

Level: (low/med) LOW Date Received: 11/16/00

% Moisture: not dec. _____ Date Analyzed: 11/21/00

GC Column: DB-1 ID: 0.35 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) PPBV	Q
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl Chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-09-2	Methylene Chloride	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
56-23-5	Carbon Tetrachloride	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-88-3	Toluene	0.50	U
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
1330-20-7	Xylene (m,p)	0.50	U
100-42-5	Styrene	0.50	U
95-47-6	Xylene (o)	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

ACCANA SAMPLE NO.

A2IA11130006

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 80694

Matrix: (soil/water) AIR Lab Sample ID: 438421

Sample wt/vol: 200 (g/mL) ML Lab File ID: 438421

Level: (low/med) LOW Date Received: 11/16/00

% Moisture: not dec. _____ Date Analyzed: 11/21/00

GC Column: DB-1 ID: 0.35 (mm) Dilution Factor: 1.0

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

Number TICs found: 3

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

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		UNKNOWN	16.82	1.3	J
2.		UNKNOWN	18.23	2.6	J
3.		UNKNOWN SILOXANE DERIVATIVE	22.10	1.7	J
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FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

ACCANA SAMPLE NO.

CAEA11130006

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 80694

Matrix: (soil/water) AIR Lab Sample ID: 438422

Sample wt/vol: 200 (g/mL) ML Lab File ID: 438422

Level: (low/med) LOW Date Received: 11/16/00

% Moisture: not dec. _____ Date Analyzed: 11/21/00

GC Column: DB-1 ID: 0.35 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) PPBV	Q
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl Chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-09-2	Methylene Chloride	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
56-23-5	Carbon Tetrachloride	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-88-3	Toluene	7.6	
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	11	
1330-20-7	Xylene (m,p)	6.1	
100-42-5	Styrene	0.50	U
95-47-6	Xylene (o)	1.0	
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

ACCANA SAMPLE NO.

CAEA11130006

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 80694

Matrix: (soil/water) AIR Lab Sample ID: 438422

Sample wt/vol: 200 (g/mL) ML Lab File ID: 438422

Level: (low/med) LOW Date Received: 11/16/00

% Moisture: not dec. _____ Date Analyzed: 11/21/00

GC Column: DB-1 ID: 0.35 (mm) Dilution Factor: 1.0

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

Number TICs found: 10

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

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		UNKNOWN ALIPHATIC COMPOUND	13.50	21	J
2.		UNKNOWN ALIPHATIC COMPOUND	13.71	12	J
3.		UNKNOWN ALIPHATIC COMPOUND	14.42	36	J
4.		UNKNOWN	15.24	9.7	J
5.		UNKNOWN	15.42	10	J
6.		UNKNOWN ALIPHATIC COMPOUND	15.58	58	J
7.		UNKNOWN ALIPHATIC COMPOUND	15.65	15	J
8.		UNKNOWN	16.81	38	J
9.		UNKNOWN	17.34	7.5	J
10.		UNKNOWN	17.67	21	JB
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FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

ACCANA SAMPLE NO.

CAIA11130006

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 80694

Matrix: (soil/water) AIR Lab Sample ID: 438420

Sample wt/vol: 200 (g/mL) ML Lab File ID: 438420

Level: (low/med) LOW Date Received: 11/16/00

% Moisture: not dec. _____ Date Analyzed: 11/21/00

GC Column: DB-1 ID: 0.35 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) PPBV	Q
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl Chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-09-2	Methylene Chloride	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
56-23-5	Carbon Tetrachloride	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-88-3	Toluene	1.2	
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
1330-20-7	Xylene (m,p)	0.85	
100-42-5	Styrene	0.50	U
95-47-6	Xylene (o)	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

ACCANA SAMPLE NO.

CAIA11130006

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 80694

Matrix: (soil/water) AIR Lab Sample ID: 438420

Sample wt/vol: 200 (g/mL) ML Lab File ID: 438420

Level: (low/med) LOW Date Received: 11/16/00

% Moisture: not dec. _____ Date Analyzed: 11/21/00

GC Column: DB-1 ID: 0.35 (mm) Dilution Factor: 1.0

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

Number TICs found: 10

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

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		UNKNOWN ALIPHATIC COMPOUND	6.36	11	J
2.		UNKNOWN ALIPHATIC COMPOUND	16.99	3.1	J
3.		UNKNOWN	17.37	3.6	J
4.		UNKNOWN ALIPHATIC COMPOUND	17.85	4.3	J
5.		UNKNOWN ALIPHATIC COMPOUND	18.08	3.6	J
6.		UNKNOWN C3-ALKYLBENZENE	18.34	5.2	J
7.		UNKNOWN ALIPHATIC COMPOUND	18.47	6.9	J
8.		UNKNOWN ALIPHATIC COMPOUND	18.69	7.1	J
9.		UNKNOWN ALIPHATIC COMPOUND	19.28	4.6	J
10.		UNKNOWN ALKYLCYCLOHEXANE	20.20	4.2	J
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FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

STLVT SAMPLE NO.

ABLKG7

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 80694

Matrix: (soil/water) AIR Lab Sample ID: ABLKG7

Sample wt/vol: 200 (g/mL) ML Lab File ID: CKB001A

Level: (low/med) LOW Date Received:

% Moisture: not dec. _____ Date Analyzed: 11/21/00

GC Column: DB-1 ID: 0.35 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) PPBV	Q
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl Chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-09-2	Methylene Chloride	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
56-23-5	Carbon Tetrachloride	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-88-3	Toluene	0.50	U
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
1330-20-7	Xylene (m,p)	0.50	U
100-42-5	Styrene	0.50	U
95-47-6	Xylene (o)	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

STLVT SAMPLE NO.

ABLKG7

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 80694

Matrix: (soil/water) AIR Lab Sample ID: ABLKG7

Sample wt/vol: 200 (g/mL) ML Lab File ID: CKB001A

Level: (low/med) LOW Date Received:

% Moisture: not dec. _____ Date Analyzed: 11/21/00

GC Column: DB-1 ID: 0.35 (mm) Dilution Factor: 1.0

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

Number TICs found: 2

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

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		UNKNOWN	17.72	5.0	J
2.		UNKNOWN	17.76	13	J
3.					
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FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

STLVT SAMPLE NO.

H6_ICVLCS

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 80694

Matrix: (soil/water) AIR Lab Sample ID: H6_ICVLCS

Sample wt/vol: 200 (g/mL) ML Lab File ID: CK010Q

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

% Moisture: not dec. _____ Date Analyzed: 11/20/00

GC Column: DB-1 ID: 0.35 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) PPBV	Q
74-87-3	Chloromethane	9.5	
75-01-4	Vinyl Chloride	9.0	
74-83-9	Bromomethane	8.4	
75-00-3	Chloroethane	9.0	
75-69-4	Trichlorofluoromethane	9.5	
75-09-2	Methylene Chloride	9.0	
75-34-3	1,1-Dichloroethane	9.3	
156-59-2	cis-1,2-Dichloroethene	9.6	
67-66-3	Chloroform	9.8	
71-55-6	1,1,1-Trichloroethane	9.9	
56-23-5	Carbon Tetrachloride	9.5	
71-43-2	Benzene	10	
107-06-2	1,2-Dichloroethane	9.9	
79-01-6	Trichloroethene	10	
78-87-5	1,2-Dichloropropane	10	
10061-01-5	cis-1,3-Dichloropropene	9.4	
108-88-3	Toluene	9.2	
10061-02-6	trans-1,3-Dichloropropene	8.5	
79-00-5	1,1,2-Trichloroethane	9.4	
127-18-4	Tetrachloroethene	10	
108-90-7	Chlorobenzene	10	
100-41-4	Ethylbenzene	10	
1330-20-7	Xylene (m,p)	20	
100-42-5	Styrene	10	
95-47-6	Xylene (o)	10	
79-34-5	1,1,2,2-Tetrachloroethane	11	
541-73-1	1,3-Dichlorobenzene	10	
106-46-7	1,4-Dichlorobenzene	10	
95-50-1	1,2-Dichlorobenzene	10	

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

STLVT SAMPLE NO.

G7_LCS

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 80694

Matrix: (soil/water) AIR Lab Sample ID: G7_LCS

Sample wt/vol: 200 (g/mL) ML Lab File ID: CK010AQ

Level: (low/med) LOW Date Received:

% Moisture: not dec. _____ Date Analyzed: 11/21/00

GC Column: DB-1 ID: 0.35 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) PPBV	Q
74-87-3	Chloromethane	12	
75-01-4	Vinyl Chloride	12	
74-83-9	Bromomethane	12	
75-00-3	Chloroethane	11	
75-69-4	Trichlorofluoromethane	10	
75-09-2	Methylene Chloride	10	
75-34-3	1,1-Dichloroethane	10	
156-59-2	cis-1,2-Dichloroethene	10	
67-66-3	Chloroform	9.8	
71-55-6	1,1,1-Trichloroethane	8.6	
56-23-5	Carbon Tetrachloride	8.4	
71-43-2	Benzene	11	
107-06-2	1,2-Dichloroethane	9.1	
79-01-6	Trichloroethene	10	
78-87-5	1,2-Dichloropropane	11	
10061-01-5	cis-1,3-Dichloropropene	9.7	
108-88-3	Toluene	11	
10061-02-6	trans-1,3-Dichloropropene	8.7	
79-00-5	1,1,2-Trichloroethane	9.9	
127-18-4	Tetrachloroethene	11	
108-90-7	Chlorobenzene	11	
100-41-4	Ethylbenzene	11	
1330-20-7	Xylene (m,p)	22	
100-42-5	Styrene	12	
95-47-6	Xylene (o)	11	
79-34-5	1,1,2,2-Tetrachloroethane	11	
541-73-1	1,3-Dichlorobenzene	11	
106-46-7	1,4-Dichlorobenzene	11	
95-50-1	1,2-Dichlorobenzene	12	

FORM 3
AIR VOLATILE LAB CONTROL SAMPLE

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 80694

Matrix Spike - STLVT Sample No.: H6_ICVLCS

COMPOUND	SPIKE ADDED (ppbv)	SAMPLE CONCENTRATION (ug/L)	LCS CONCENTRATION (ppbv)	LCS % REC #	QC. LIMITS REC.
Chloromethane	10		9.5	95	70-130
Vinyl Chloride	10		9.0	90	70-130
Bromomethane	10		8.4	84	70-130
Chloroethane	10		9.0	90	70-130
Trichlorofluoromethane	10		9.5	95	70-130
Methylene Chloride	10		9.0	90	70-130
1,1-Dichloroethane	10		9.3	93	70-130
cis-1,2-Dichloroethene	10		9.6	96	70-130
Chloroform	10		9.8	98	70-130
1,1,1-Trichloroethane	10		9.9	99	70-130
Carbon Tetrachloride	10		9.5	95	70-130
Benzene	10		10	100	70-130
1,2-Dichloroethane	10		9.9	99	70-130
Trichloroethene	10		10	100	70-130
1,2-Dichloropropane	10		10	100	70-130
cis-1,3-Dichloropropene	10		9.4	94	70-130
Toluene	10		9.2	92	70-130
trans-1,3-Dichloroprope	10		8.5	85	70-130
1,1,2-Trichloroethane	10		9.4	94	70-130
Tetrachloroethene	10		10	100	70-130
Chlorobenzene	10		10	100	70-130
Ethylbenzene	10		10	100	70-130
Xylene (m,p)	20		20	100	70-130
Styrene	10		10	100	70-130
Xylene (o)	10		10	100	70-130
1,1,2,2-Tetrachloroetha	10		11	110	70-130
1,3-Dichlorobenzene	10		10	100	70-130
1,4-Dichlorobenzene	10		10	100	70-130

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

* Values outside of QC limits

COMMENTS: _____

FORM 3
AIR VOLATILE LAB CONTROL SAMPLE

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 80694

Matrix Spike - STLVT Sample No.: H6_ICVLCS

COMPOUND	SPIKE ADDED (ppbv)	SAMPLE CONCENTRATION (ug/L)	LCS CONCENTRATION (ppbv)	LCS % REC #	QC. LIMITS REC.
1,2-Dichlorobenzene	10		10	100	70-130

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

* Values outside of QC limits

RPD: 0 out of 0 outside limits
Spike Recovery: 0 out of 29 outside limits

COMMENTS: _____

FORM 3
AIR VOLATILE LAB CONTROL SAMPLE

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 80694

Matrix Spike - STLVT Sample No.: G7_LCS

COMPOUND	SPIKE ADDED (ppbv)	SAMPLE CONCENTRATION (ug/L)	LCS CONCENTRATION (ppbv)	LCS % REC #	QC. LIMITS REC.
Chloromethane	10		12	120	70-130
Vinyl Chloride	10		12	120	70-130
Bromomethane	10		12	120	70-130
Chloroethane	10		11	110	70-130
Trichlorofluoromethane	10		10	100	70-130
Methylene Chloride	10		10	100	70-130
1,1-Dichloroethane	10		10	100	70-130
cis-1,2-Dichloroethene	10		10	100	70-130
Chloroform	10		9.8	98	70-130
1,1,1-Trichloroethane	10		8.6	86	70-130
Carbon Tetrachloride	10		8.4	84	70-130
Benzene	10		11	110	70-130
1,2-Dichloroethane	10		9.1	91	70-130
Trichloroethene	10		10	100	70-130
1,2-Dichloropropane	10		11	110	70-130
cis-1,3-Dichloropropene	10		9.7	97	70-130
Toluene	10		11	110	70-130
trans-1,3-Dichloroprope	10		8.7	87	70-130
1,1,2-Trichloroethane	10		9.9	99	70-130
Tetrachloroethene	10		11	110	70-130
Chlorobenzene	10		11	110	70-130
Ethylbenzene	10		11	110	70-130
Xylene (m,p)	20		22	110	70-130
Styrene	10		12	120	70-130
Xylene (o)	10		11	110	70-130
1,1,2,2-Tetrachloroetha	10		11	110	70-130
1,3-Dichlorobenzene	10		11	110	70-130
1,4-Dichlorobenzene	10		11	110	70-130

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

* Values outside of QC limits

COMMENTS: _____

FORM 3
AIR VOLATILE LAB CONTROL SAMPLE

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 80694

Matrix Spike - STLVT Sample No.: G7_LCS

COMPOUND	SPIKE ADDED (ppbv)	SAMPLE CONCENTRATION (ug/L)	LCS CONCENTRATION (ppbv)	LCS % REC #	QC. LIMITS REC.
1,2-Dichlorobenzene	10		12	120	70-130

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

* Values outside of QC limits

RPD: 0 out of 0 outside limits
Spike Recovery: 0 out of 29 outside limits

COMMENTS: _____

FORM 3
AIR VOLATILE LAB CONTROL SAMPLE

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 80694

Matrix Spike - STLVT Sample No.: H6_ICVLCS

COMPOUND	SPIKE ADDED (ppbv)	SAMPLE CONCENTRATION (ug/L)	LCS CONCENTRATION (ppbv)	LCS % REC #	QC. LIMITS REC.
Chloromethane	10		9.5	95	70-130
Vinyl Chloride	10		9.0	90	70-130
Bromomethane	10		8.4	84	70-130
Chloroethane	10		9.0	90	70-130
Trichlorofluoromethane	10		9.5	95	70-130
Methylene Chloride	10		9.0	90	70-130
1,1-Dichloroethane	10		9.3	93	70-130
cis-1,2-Dichloroethene	10		9.6	96	70-130
Chloroform	10		9.8	98	70-130
1,1,1-Trichloroethane	10		9.9	99	70-130
Carbon Tetrachloride	10		9.5	95	70-130
Benzene	10		10	100	70-130
1,2-Dichloroethane	10		9.9	99	70-130
Trichloroethene	10		10	100	70-130
1,2-Dichloropropane	10		10	100	70-130
cis-1,3-Dichloropropene	10		9.4	94	70-130
Toluene	10		9.2	92	70-130
trans-1,3-Dichloroprope	10		8.5	85	70-130
1,1,2-Trichloroethane	10		9.4	94	70-130
Tetrachloroethene	10		10	100	70-130
Chlorobenzene	10		10	100	70-130
Ethylbenzene	10		10	100	70-130
Xylene (m,p)	20		20	100	70-130
Styrene	10		10	100	70-130
Xylene (o)	10		10	100	70-130
1,1,2,2-Tetrachloroetha	10		11	110	70-130
1,3-Dichlorobenzene	10		10	100	70-130
1,4-Dichlorobenzene	10		10	100	70-130

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

* Values outside of QC limits

COMMENTS: _____

FORM 3
AIR VOLATILE LAB CONTROL SAMPLE

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 80694

Matrix Spike - STLVT Sample No.: H6_ICVLCS

COMPOUND	SPIKE ADDED (ppbv)	SAMPLE CONCENTRATION (ug/L)	LCS CONCENTRATION (ppbv)	LCS % REC #	QC. LIMITS REC.
1,2-Dichlorobenzene	10		10	100	70-130

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

* Values outside of QC limits

RPD: 0 out of 0 outside limits
Spike Recovery: 0 out of 29 outside limits

COMMENTS: _____

FORM 4
VOLATILE METHOD BLANK SUMMARY

STLVT SAMPLE NO.

ABLKG7

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 80694

Lab File ID: CKB001A Lab Sample ID: ABLKG7

Date Analyzed: 11/21/00 Time Analyzed: 0958

GC Column: DB-1 ID: 0.35 (mm) Heated Purge: (Y/N) N

Instrument ID: X

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

	STLVT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	G7_LCS	G7_LCS	CK010AQ	0826
02	CAIA11130006	438420	438420	1439
03	A2IA11130006	438421	438421	1513
04	CAEA11130006	438422	438422	1549
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COMMENTS:

FORM 5
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 80694

Lab File ID: CK002P BFB Injection Date: 11/20/00

Instrument ID: X BFB Injection Time: 0724

GC Column: DB-1 ID: 0.32 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	24.6
75	30.0 - 66.0% of mass 95	53.3
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.2
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	50.0 - 120.0% of mass 95	77.7
175	4.0 - 9.0% of mass 174	5.7 (7.3)1
176	93.0 - 101.0% of mass 174	75.5 (97.2)1
177	5.0 - 9.0% of mass 176	4.8 (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	ASTD0005	ASTD0005	CK0005	11/20/00	0752
02	ASTD005	ASTD005	CK005	11/20/00	0826
03	ASTD010	ASTD010	CK010	11/20/00	0900
04	ASTD020	ASTD020	CK020	11/20/00	0934
05	ASTD040	ASTD040	CK040	11/20/00	1011
06	H6_ICVLCS	H6_ICVLCS	CK010Q	11/20/00	1057
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FORM 5
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 80694

Lab File ID: CK003P BFB Injection Date: 11/21/00

Instrument ID: X BFB Injection Time: 0725

GC Column: DB-1 ID: 0.32 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	23.6
75	30.0 - 66.0% of mass 95	50.5
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.3
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	50.0 - 120.0% of mass 95	73.9
175	4.0 - 9.0% of mass 174	5.5 (7.4)1
176	93.0 - 101.0% of mass 174	71.3 (96.6)1
177	5.0 - 9.0% of mass 176	4.5 (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	ASTD010	ASTD010	CK010A	11/21/00	0751
02	G7_LCS	G7_LCS	CK010AQ	11/21/00	0826
03	ABLKG7	ABLKG7	CKB001A	11/21/00	0958
04	CAIA11130006	438420	438420	11/21/00	1439
05	A2IA11130006	438421	438421	11/21/00	1513
06	CAEA11130006	438422	438422	11/21/00	1549
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6A
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 80694

Instrument ID: X Calibration Date(s): 11/20/00 11/20/00

Heated Purge: (Y/N) N Calibration Time(s): 0752 1011

GC Column: DB-1 ID: 0.35 (mm)

LAB FILE ID: RRF0.5=CK0005 RRF5 =CK005
RRF10 =CK010 RRF20 =CK020 RRF40 =CK040

COMPOUND		RRF0.5	RRF5	RRF10	RRF20	RRF40	$\overline{RRF}$	% RSD	
Chloromethane		0.889	0.809	0.720	0.673	0.724	0.763	11.3	
Vinyl Chloride		1.005	0.989	0.840	0.758	0.715	0.861	15.3	
Bromomethane		1.105	0.911	0.785	0.772	0.647	0.844	20.6	
Chloroethane		0.539	0.451	0.417	0.378	0.362	0.429	16.4	
Trichlorofluoromethane		3.723	3.808	3.192	2.867	2.787	3.275	14.5	
Methylene Chloride		1.634	1.404	1.207	1.092	1.072	1.282	18.5	
1,1-Dichloroethane	*	2.314	2.286	1.885	1.757	1.726	1.994	14.4	*
cis-1,2-Dichloroethene		1.863	1.994	1.622	1.423	1.387	1.658	16.1	
Chloroform		2.722	2.853	2.379	2.176	2.142	2.454	13.1	
1,1,1-Trichloroethane		0.412	0.434	0.428	0.393	0.409	0.415	4.0	
Carbon Tetrachloride		0.062	0.077	0.075	0.073	0.060	0.069	11.6	
Benzene		0.624	0.618	0.572	0.503	0.516	0.567	9.9	
1,2-Dichloroethane		0.484	0.477	0.440	0.368	0.366	0.427	13.4	
Trichloroethene		0.334	0.385	0.318	0.271	0.259	0.313	16.2	
1,2-Dichloropropane		0.226	0.232	0.202	0.187	0.187	0.207	10.2	
cis-1,3-Dichloropropene		0.177	0.204	0.207	0.215	0.250	0.211	12.5	
Toluene		0.423	0.463	0.404	0.353	0.343	0.397	12.6	
trans-1,3-Dichloropropene		0.181	0.155	0.163	0.173	0.214	0.177	12.8	
1,1,2-Trichloroethane		0.211	0.236	0.194	0.181	0.175	0.199	12.5	
Tetrachloroethene		0.363	0.423	0.364	0.308	0.292	0.350	14.8	
Chlorobenzene	*	0.488	0.607	0.552	0.488	0.481	0.523	10.5	*
Ethylbenzene		0.869	1.087	0.973	0.870	0.854	0.931	10.7	
Xylene (m,p)		0.291	0.355	0.332	0.295	0.291	0.313	9.3	
Styrene		0.328	0.449	0.454	0.411	0.421	0.413	12.3	
Xylene (o)		0.247	0.350	0.338	0.281	0.285	0.300	14.2	
1,1,2,2-Tetrachloroethane		0.362	0.488	0.468	0.434	0.450	0.440	10.9	
1,3-Dichlorobenzene		0.303	0.546	0.555	0.532	0.478	0.483	21.7	
1,4-Dichlorobenzene		0.284	0.511	0.530	0.511	0.466	0.460	22.0	
1,2-Dichlorobenzene		0.222	0.502	0.520	0.501	0.445	0.438	28.3	

* Compounds with required minimum RRF and maximim %RSD values.
All other compounds must meet a minimim RRF of 0.010.

FORM 7
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 80694

Instrument ID: X Calibration Date: 11/21/00 Time: 0751

Lab File ID: CK010A Init. Calib. Date(s): 11/20/00 11/20/00

Heated Purge: (Y/N) N Init. Calib. Times: 0752 1011

GC Column: DB-1 ID: 0.35 (mm)

COMPOUND	$\overline{RRF}$	RRF10	MIN RRF	%D	MAX %D
Chloromethane	0.763	0.758	0.01	0.6	30.0
Vinyl Chloride	0.861	0.925	0.01	7.4	30.0
Bromomethane	0.844	1.004	0.01	19.0	30.0
Chloroethane	0.429	0.465	0.01	8.4	30.0
Trichlorofluoromethane	3.275	3.071	0.01	6.2	30.0
Methylene Chloride	1.282	1.207	0.01	5.8	30.0
1,1-Dichloroethane	1.994	1.982	0.1	0.6	30.0
cis-1,2-Dichloroethene	1.658	1.741	0.01	5.0	30.0
Chloroform	2.454	2.372	0.01	3.3	30.0
1,1,1-Trichloroethane	0.415	0.376	0.01	9.4	30.0
Carbon Tetrachloride	0.069	0.062	0.01	10.1	30.0
Benzene	0.567	0.587	0.01	3.5	30.0
1,2-Dichloroethane	0.427	0.385	0.01	9.8	30.0
Trichloroethene	0.313	0.314	0.01	0.3	30.0
1,2-Dichloropropane	0.207	0.212	0.01	2.4	30.0
cis-1,3-Dichloropropene	0.211	0.205	0.01	2.8	30.0
Toluene	0.397	0.417	0.01	5.0	30.0
trans-1,3-Dichloropropene	0.177	0.150	0.01	15.2	30.0
1,1,2-Trichloroethane	0.199	0.199	0.01	0.0	30.0
Tetrachloroethene	0.350	0.342	0.01	2.3	30.0
Chlorobenzene	0.523	0.590	0.3	12.8	30.0
Ethylbenzene	0.931	1.047	0.01	12.4	30.0
Xylene (m,p)	0.313	0.346	0.01	10.5	30.0
Styrene	0.413	0.448	0.01	8.5	30.0
Xylene (o)	0.300	0.332	0.01	10.7	30.0
1,1,2,2-Tetrachloroethane	0.440	0.479	0.01	8.9	30.0
1,3-Dichlorobenzene	0.483	0.487	0.01	0.8	30.0
1,4-Dichlorobenzene	0.460	0.464	0.01	0.9	30.0
1,2-Dichlorobenzene	0.438	0.456	0.01	4.1	30.0

FORM 8
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 80694

Lab File ID (Standard): CK010A Date Analyzed: 11/21/00

Instrument ID: X Time Analyzed: 0751

GC Column: DB-1 ID: 0.35 (mm) Heated Purge: (Y/N) N

		IS1 (BCM) AREA #	RT #	IS2 (CBZ) AREA #	RT #	IS3 (DFB) AREA #	RT #
	12 HOUR STD	250603	8.49	1419731	15.30	1283893	10.48
	UPPER LIMIT	601447	8.82	3407354	15.63	3081343	10.81
	LOWER LIMIT	100241	8.16	567892	14.97	513557	10.15
	CLIENT SAMPLE NO.						
01	G7_LCS	217293	8.49	1302453	15.30	1117421	10.48
02	ABLKG7	249968	8.78	1322404	15.38	1235493	10.69
03	CAIA11130006	366074	8.82	1823683	15.38	1710589	10.72
04	A2IA11130006	258553	8.50	1311967	15.30	1188278	10.49
05	CAEA11130006	227248	8.50	1233858	15.32	1077334	10.51
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IS1 (BCM) = Bromochloromethane
IS2 (CBZ) = Chlorobenzene-d5
IS3 (DFB) = 1,4-Difluorobenzene

AREA UPPER LIMIT = +140% of internal standard area
AREA LOWER LIMIT = - 60% of internal standard area
RT UPPER LIMIT = + 0.33 minutes of internal standard RT
RT LOWER LIMIT = - 0.33 minutes of internal standard RT

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

SEVERN TRENT SERVICES

Severn Trent Laboratories, Inc.

NARRATIVE

SEVERN TRENT SERVICES

STL Burlington
208 South Park Drive
Suite 1
Colchester, VT 05446

Tel: 802 655 1203
Fax: 802 655 1248
www.stl-inc.com

November 29, 2000

Mr. David Fuller
Accura Analytical Laboratories
6017 Financial Drive
Norcross, GA 30071

Re: Laboratory Project No. 20031
Case: 20031; SDG: 80694

Dear Mr. Fuller:

Enclosed are the analytical results of samples received intact by Severn Trent Laboratories on November 16, 2000. Laboratory numbers have been assigned and designated as follows:

Lab ID	Client Sample ID	Sample Date	Sample Matrix
	Received: 11/16/00	ETR No: 80694	
438420	029ACAIA11130006	11/13/00	Air
438421	029ACA2IA11130006	11/13/00	Air
438422	029ACAEA11130006	11/13/00	Air

Method TO-14A Modified-Volatile Organics;
Please note that due to a limitation of characters inherent in the reporting software, some characters of the client identification above were truncated.

If there are any questions regarding this submittal, please contact Ron Pentkowski at (802) 655-1203.

This report shall not be reproduced, except in full, without the written approval of the laboratory. This report is sequentially numbered starting with page 001 and ending with page 129.

I certify that this package is in compliance with the NELAC requirements, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Director or his designee, as verified by the following signature.

Sincerely,

Christopher A. Ouellette
Laboratory Director

SEVERN TRENT SERVICES

The following Qualifiers may be used when reporting any Organic parameters analyzed by Gas Chromatography/mass Spectometry (GCMS). Any additional qualifiers used in the reports will be described in the case narrative. These flags are based on the EPA Contract Laboratory Program statement of work.

GC/MS Qualifiers

A- The reported Tentatively Identified Compound (TIC) is a suspected Aldol-condensation product.

B- The reported analyte was detected in the associated method blank as well as the sample.

D - This flag identifies all compounds identified in an analysis at a secondary dilution factor. This flag alerts data users that any discrepancies between the concentrations reported for the dilutions may be due to dilution of the sample or extract. It additionally indicates that spike recoveries may have been diluted below quantifiable levels.

E- Compound quantitation is above the instrument's calibration range for this analysis.

J - Indicates an estimated value. This flag is used when the result is less than the reporting limit, but > ½ reporting limit.

U- Indicates compound was analyzed for but not detected above the reporting limit.

X,Y,Z - Laboratory defined flags. These flags must be fully described, and such description attached to the Sample Data Summary Package and the case Narrative. Begin by using "X" and go on to "Y" as necessary. These flags may also be used to combine several flags, as needed.

CH2M Hill Constructors, Inc.
115 Perimeter Center Place, Suite 700
Atlanta, GA 30346-1278
Tel No (770) 604-9182 , Fax No (770) 604-9282

CHAIN-OF-CUSTODY RECORD

COC NUMBER
154282-06

PROJECT NAME	PROJECT NUMBER	LAB NAME AND CONTACT	FAX AND MAIL REPORTS/EDD TO RECIPIENT 1 (Name and Company)	RECIPIENT 1 (Address, Tel No , and Fax No)
N.A.S Cecil Field 103rd Street	154282	Severn Trent Laboratories/ Ron Pentkowski	Dave Accura Analytical Laboratory	6017 Financial Drive Norcross, GA 30071 (770) 449-8800 Fax:(770) 449-5477
PROJECT PHASE/SITE/TASK	CTO OR DO NUMBER	LAB PO NUMBER	FAX AND MAIL REPORTS/EDD TO RECIPIENT 2 (Name and Company)	RECIPIENT 2 (Address, Tel No , and Fax No)
103rd Street Monthly Air	0029	1760	Jennifer Zimmerman / J.A Jones Env. Services	6219 Authority Ave. Building 1 Jacksonville, FL 32215 (904) 7774812 FAX: (904) 7774262
PROJECT CONTACT	PROJECT TEL NO AND FAX NO	LAB TEL NO AND FAX NO	FAX AND MAIL REPORTS/EDD TO RECIPIENT 3 (Name and Company)	RECIPIENT 3 (Address, Tel No , and Fax No)
David Garrity	Ph:(904)777-4812 Fax:(904) 777-4262	Ph:(802) 655-1203	Jeff Wilmoth / CH2M Hill Constuctors, Inc.	115 Perimeter Center Place, N.E. Suite 700 Atlanta, GA 30346 (770)604-9182 Ext.561 FAX:604-9282

ANALYSES REQUIRED (Include Method Numbers)

ITEM	SAMPLE IDENTIFIER	SAMPLE DESCRIPTION/LOCATION	MATRIX (see codes on back)	DATE COLLECTED	TIME COLLECTED	DATA PKG LEVEL (see codes on back)	TAT (calendar days)	Volatiles by 18 / TO 14									SAMPLE TYPE (see codes on back)	COMMENTS/ SCREENING READINGS	LAB ID
1	029-ACA-I-A-1113-00-06	Pre Carbon Units	A	11/13/00	13:50	III/B	7	1									Grab	Summa Canister	
2	029-ACA2-I-A-1113-00-06	Mid Carbon Units	A	11/13/00	13:55	III/B	7	1									Grab	Summa Canister	
3	029-ACA-E-A-1113-00-06	Post Carbon Units	A	11/13/00	14:00	III/B	7	1									Grab	Summa Canister	0003
4																			
5																			
6																			
7																			
8																			
9																			
10																			

SAMPLER(S) AND COMPANY (please print)	COURIER AND SHIPPING NUMBER	SAMPLES TEMPERATURE AND CONDITION UPON RECEIPT
Randy Dumaop J.A. Jones Environmental Services	Federal Express TRK# 790399462618	

RELINQUISHED BY	DATE	TIME	RECEIVED BY	DATE	TIME
Printed Name and Signature			Printed Name and Signature		
R.Dumaop	11/14/00	11:00	Federal Express	11/14/00	11:00
Printed Name and Signature			Printed Name and Signature		
Printed Name and Signature			Printed Name and Signature		
			Scott Lavigne	11/14/00	0930

Distribution [ ] Original - Laboratory (To be returned with Analytical Report). [ ] Copy 1 - Project File. [ ] Copy 2 - PMO

Form CT001, Rev 02/00

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Severn Trent Laboratories, Inc.

METHOD TO-14A
VOLATILE ORGANIC ANALYSIS

QC SUMMARY

FORM 3
AIR VOLATILE LAB CONTROL SAMPLE

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 80694

Matrix Spike - STLVT Sample No.: H6_ICVLCS

COMPOUND	SPIKE ADDED (ppbv)	SAMPLE CONCENTRATION (ug/L)	LCS CONCENTRATION (ppbv)	LCS % REC #	QC. LIMITS REC.
Chloromethane	10		9.5	95	70-130
Vinyl Chloride	10		9.0	90	70-130
Bromomethane	10		8.4	84	70-130
Chloroethane	10		9.0	90	70-130
Trichlorofluoromethane	10		9.5	95	70-130
Methylene Chloride	10		9.0	90	70-130
1,1-Dichloroethane	10		9.3	93	70-130
cis-1,2-Dichloroethene	10		9.6	96	70-130
Chloroform	10		9.8	98	70-130
1,1,1-Trichloroethane	10		9.9	99	70-130
Carbon Tetrachloride	10		9.5	95	70-130
Benzene	10		10	100	70-130
1,2-Dichloroethane	10		9.9	99	70-130
Trichloroethene	10		10	100	70-130
1,2-Dichloropropane	10		10	100	70-130
cis-1,3-Dichloropropene	10		9.4	94	70-130
Toluene	10		9.2	92	70-130
trans-1,3-Dichloroprope	10		8.5	85	70-130
1,1,2-Trichloroethane	10		9.4	94	70-130
Tetrachloroethene	10		10	100	70-130
Chlorobenzene	10		10	100	70-130
Ethylbenzene	10		10	100	70-130
Xylene (m,p)	20		20	100	70-130
Styrene	10		10	100	70-130
Xylene (o)	10		10	100	70-130
1,1,2,2-Tetrachloroetha	10		11	110	70-130
1,3-Dichlorobenzene	10		10	100	70-130
1,4-Dichlorobenzene	10		10	100	70-130

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

* Values outside of QC limits

COMMENTS: _____

FORM 3
AIR VOLATILE LAB CONTROL SAMPLE

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 80694

Matrix Spike - STLVT Sample No.: H6_ICVLCS

COMPOUND	SPIKE ADDED (ppbv)	SAMPLE CONCENTRATION (ug/L)	LCS CONCENTRATION (ppbv)	LCS % REC #	QC. LIMITS REC.
1,2-Dichlorobenzene	10		10	100	70-130

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

* Values outside of QC limits

RPD: 0 out of 0 outside limits
Spike Recovery: 0 out of 29 outside limits

COMMENTS: _____

FORM 3
AIR VOLATILE LAB CONTROL SAMPLE

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 80694

Matrix Spike - STLVT Sample No.: G7_LCS

COMPOUND	SPIKE ADDED (ppbv)	SAMPLE CONCENTRATION (ug/L)	LCS CONCENTRATION (ppbv)	LCS % REC #	QC. LIMITS REC.
Chloromethane	10		12	120	70-130
Vinyl Chloride	10		12	120	70-130
Bromomethane	10		12	120	70-130
Chloroethane	10		11	110	70-130
Trichlorofluoromethane	10		10	100	70-130
Methylene Chloride	10		10	100	70-130
1,1-Dichloroethane	10		10	100	70-130
cis-1,2-Dichloroethene	10		10	100	70-130
Chloroform	10		9.8	98	70-130
1,1,1-Trichloroethane	10		8.6	86	70-130
Carbon Tetrachloride	10		8.4	84	70-130
Benzene	10		11	110	70-130
1,2-Dichloroethane	10		9.1	91	70-130
Trichloroethene	10		10	100	70-130
1,2-Dichloropropane	10		11	110	70-130
cis-1,3-Dichloropropene	10		9.7	97	70-130
Toluene	10		11	110	70-130
trans-1,3-Dichloroprope	10		8.7	87	70-130
1,1,2-Trichloroethane	10		9.9	99	70-130
Tetrachloroethene	10		11	110	70-130
Chlorobenzene	10		11	110	70-130
Ethylbenzene	10		11	110	70-130
Xylene (m,p)	20		22	110	70-130
Styrene	10		12	120	70-130
Xylene (o)	10		11	110	70-130
1,1,2,2-Tetrachloroetha	10		11	110	70-130
1,3-Dichlorobenzene	10		11	110	70-130
1,4-Dichlorobenzene	10		11	110	70-130

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

* Values outside of QC limits

COMMENTS: _____

FORM 3
AIR VOLATILE LAB CONTROL SAMPLE

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 80694

Matrix Spike - STLVT Sample No.: G7_LCS

COMPOUND	SPIKE ADDED (ppbv)	SAMPLE CONCENTRATION (ug/L)	LCS CONCENTRATION (ppbv)	LCS % REC #	QC. LIMITS REC.
1,2-Dichlorobenzene	10		12	120	70-130

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

* Values outside of QC limits

RPD: 0 out of 0 outside limits
Spike Recovery: 0 out of 29 outside limits

COMMENTS: _____

FORM 4
VOLATILE METHOD BLANK SUMMARY

STLVT SAMPLE NO.

ABLKG7

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 80694

Lab File ID: CKB001A Lab Sample ID: ABLKG7

Date Analyzed: 11/21/00 Time Analyzed: 0958

GC Column: DB-1 ID: 0.35 (mm) Heated Purge: (Y/N) N

Instrument ID: X

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

	STLVT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	G7_LCS	G7_LCS	CK010AQ	0826
02	CAIA11130006	438420	438420	1439
03	A2IA11130006	438421	438421	1513
04	CAEA11130006	438422	438422	1549
05				
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30				

COMMENTS:

FORM 5
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 80694

Lab File ID: CK002P BFB Injection Date: 11/20/00

Instrument ID: X BFB Injection Time: 0724

GC Column: DB-1 ID: 0.32 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	24.6
75	30.0 - 66.0% of mass 95	53.3
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.2
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	50.0 - 120.0% of mass 95	77.7
175	4.0 - 9.0% of mass 174	5.7 (7.3)1
176	93.0 - 101.0% of mass 174	75.5 (97.2)1
177	5.0 - 9.0% of mass 176	4.8 (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	ASTD0005	ASTD0005	CK0005	11/20/00	0752
02	ASTD005	ASTD005	CK005	11/20/00	0826
03	ASTD010	ASTD010	CK010	11/20/00	0900
04	ASTD020	ASTD020	CK020	11/20/00	0934
05	ASTD040	ASTD040	CK040	11/20/00	1011
06	H6_ICVLCS	H6_ICVLCS	CK010Q	11/20/00	1057
07					
08					
09					
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22					

FORM 5
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 80694

Lab File ID: CK003P BFB Injection Date: 11/21/00

Instrument ID: X BFB Injection Time: 0725

GC Column: DB-1 ID: 0.32 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	23.6
75	30.0 - 66.0% of mass 95	50.5
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.3
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	50.0 - 120.0% of mass 95	73.9
175	4.0 - 9.0% of mass 174	5.5 (7.4)1
176	93.0 - 101.0% of mass 174	71.3 (96.6)1
177	5.0 - 9.0% of mass 176	4.5 (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	ASTD010	ASTD010	CK010A	11/21/00	0751
02	G7_LCS	G7_LCS	CK010AQ	11/21/00	0826
03	ABLKG7	ABLKG7	CKB001A	11/21/00	0958
04	CAIA11130006	438420	438420	11/21/00	1439
05	A2IA11130006	438421	438421	11/21/00	1513
06	CAEA11130006	438422	438422	11/21/00	1549
07					
08					
09					
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19					
20					
21					
22					

FORM 8
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 80694

Lab File ID (Standard): CK010A Date Analyzed: 11/21/00

Instrument ID: X Time Analyzed: 0751

GC Column: DB-1 ID: 0.35 (mm) Heated Purge: (Y/N) N

		IS1 (BCM) AREA #	RT #	IS2 (CBZ) AREA #	RT #	IS3 (DFB) AREA #	RT #
	12 HOUR STD	250603	8.49	1419731	15.30	1283893	10.48
	UPPER LIMIT	601447	8.82	3407354	15.63	3081343	10.81
	LOWER LIMIT	100241	8.16	567892	14.97	513557	10.15
	CLIENT SAMPLE NO.						
01	G7_LCS	217293	8.49	1302453	15.30	1117421	10.48
02	ABLKG7	249968	8.78	1322404	15.38	1235493	10.69
03	CAIA11130006	366074	8.82	1823683	15.38	1710589	10.72
04	A2IA11130006	258553	8.50	1311967	15.30	1188278	10.49
05	CAEA11130006	227248	8.50	1233858	15.32	1077334	10.51
06							
07							
08							
09							
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22							

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

AREA UPPER LIMIT = +140% of internal standard area
AREA LOWER LIMIT = - 60% of internal standard area
RT UPPER LIMIT = + 0.33 minutes of internal standard RT
RT LOWER LIMIT = - 0.33 minutes of internal standard RT

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

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Severn Trent Laboratories, Inc.

METHOD TO-14A
VOLATILE ORGANIC ANALYSIS

SUPPORTIVE DOCUMENTATION

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

ACCANA SAMPLE NO.

A2IA11130006

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 80694

Matrix: (soil/water) AIR Lab Sample ID: 438421

Sample wt/vol: 200 (g/mL) ML Lab File ID: 438421

Level: (low/med) LOW Date Received: 11/16/00

% Moisture: not dec. _____ Date Analyzed: 11/21/00

GC Column: DB-1 ID: 0.35 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) PPBV	Q
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl Chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-09-2	Methylene Chloride	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
56-23-5	Carbon Tetrachloride	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-88-3	Toluene	0.50	U
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
1330-20-7	Xylene (m,p)	0.50	U
100-42-5	Styrene	0.50	U
95-47-6	Xylene (o)	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

ACCANA SAMPLE NO.

A2IA11130006

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 80694

Matrix: (soil/water) AIR Lab Sample ID: 438421

Sample wt/vol: 200 (g/mL) ML Lab File ID: 438421

Level: (low/med) LOW Date Received: 11/16/00

% Moisture: not dec. _____ Date Analyzed: 11/21/00

GC Column: DB-1 ID: 0.35 (mm) Dilution Factor: 1.0

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

Number TICs found: 3

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

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		UNKNOWN	16.82	1.3	J
2.		UNKNOWN	18.23	2.6	J
3.		UNKNOWN SILOXANE DERIVATIVE	22.10	1.7	J
4.					
5.					
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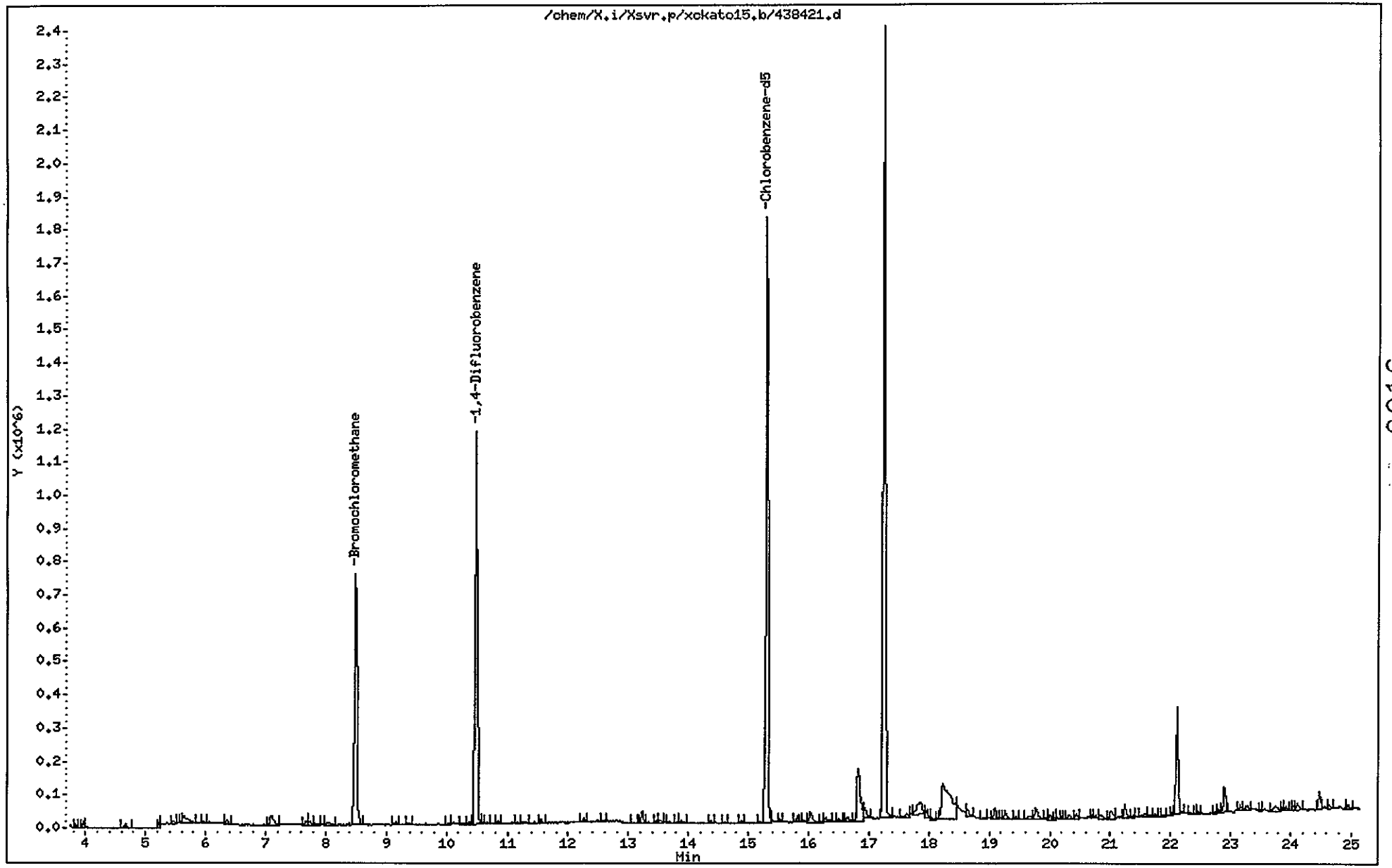
30.					

Data File: /chem/X.i/Xsvr.p/xckato15.b/438421.d
Date : 21-NOV-2000 15:13
Client ID: A2IA11130006
Sample Info: 438421;029ACA2IA11130006;80694;1121H7
Purge Volume: 200.0
Column phase: DB-1

Instrument: X.i
Operator: GMH
Column diameter: 0.35



0016

STL Burlington

AIR TOXICS QUANTITATION REPORT

Data file : /chem/X.i/Xsvr.p/xckato15.b/438421.d
Lab Smp Id: 438421 Client Smp ID: A2IA11130006
Inj Date : 21-NOV-2000 15:13
Operator : GMM Inst ID: X.i
Smp Info : 438421;029ACA2IA11130006;80694;1121H7
Misc Info :
Comment :
Method : /chem/X.i/Xsvr.p/xckato15.b/ato15.m
Meth Date : 28-Nov-2000 14:00 mim Quant Type: ISTD
Cal Date : 20-NOV-2000 10:11 Cal File: ck040.d
Als bottle: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ACCANA2.sub
Target Version: 3.50
Processing Host: chemsvr4

Concentration Formula: Amt * DF * X* Uf/Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
X	200.00000	method volume factor
Uf	1.00000	ng unit correction factor
Vo	200.00000	Sample Volume purged (mL)

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)
2	Chloromethane	50	Compound Not Detected.					
4	Vinyl Chloride	62	Compound Not Detected.					
6	Bromomethane	94	Compound Not Detected.					
7	Chloroethane	64	Compound Not Detected.					
10	Trichlorofluoromethane	101	Compound Not Detected.					
13	Methylene Chloride	49	Compound Not Detected.					
18	1,1-Dichloroethane	63	Compound Not Detected.					
21	cis-1,2-Dichloroethene	61	Compound Not Detected.					
* 22	Bromochloromethane	128	8.504	8.473	(1.000)	258553	10.0000	
24	Chloroform	83	Compound Not Detected.					
26	1,2-Dichloroethane	62	Compound Not Detected.					
27	1,1,1-Trichloroethane	97	Compound Not Detected.					
28	Benzene	78	Compound Not Detected.					
29	Carbon Tetrachloride	117	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	FINAL (ppbv)
*	31 1,4-Difluorobenzene	114	10.492	10.461	(1.000)	1188278	10.0000	
	32 1,2-Dichloropropane	63	Compound Not Detected.					
	34 Trichloroethene	95	Compound Not Detected.					
	38 cis-1,3-Dichloropropene	75	Compound Not Detected.					
	40 trans-1,3-Dichloropropene	75	Compound Not Detected.					
	41 1,1,2-Trichloroethane	83	Compound Not Detected.					
	42 Toluene	92	Compound Not Detected.					
	46 Tetrachloroethene	166	Compound Not Detected.					
*	47 Chlorobenzene-d5	117	15.302	15.272	(1.000)	1311967	10.0000	
	48 Chlorobenzene	112	Compound Not Detected.					
	49 Ethylbenzene	91	Compound Not Detected.					
	50 Xylene (m,p)	106	Compound Not Detected.					
	52 Styrene	104	Compound Not Detected.					
	53 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					
	54 Xylene (o)	106	Compound Not Detected.					
	59 1,3-Dichlorobenzene	146	Compound Not Detected.					
	60 1,4-Dichlorobenzene	146	Compound Not Detected.					
	61 1,2-Dichlorobenzene	146	Compound Not Detected.					

STL Burlington

AIR TOXICS QUANTITATION REPORT

Data file : /chem/X.i/Xsvr.p/xckato15.b/438421.d
Lab Smp Id: 438421 Client Smp ID: A2IA11130006
Inj Date : 21-NOV-2000 15:13
Operator : GMM Inst ID: X.i
Smp Info : 438421;029ACA2IA11130006;80694;1121H7
Misc Info :
Comment :
Method : /chem/X.i/Xsvr.p/xckato15.b/ato15.m
Meth Date : 28-Nov-2000 13:48 mim Quant Type: ISTD
Cal Date : 20-NOV-2000 10:11 Cal File: ck040.d
Als bottle: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ACCANA.sub
Target Version: 3.50
Processing Host: chemsvr4

Concentration Formula: Amt * DF * X* Uf/Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
X	200.00000	method volume factor
Uf	1.00000	ng unit correction factor
Vo	200.00000	Sample Volume purged (mL)

Cpnd Variable Local Compound Variable

ISTD	RT	AREA	AMOUNT
* 47 Chlorobenzene-d5	15.302	4553796	10.000

		CONCENTRATIONS			QUANT		
RT	AREA	ON-COL(ppbv)	FINAL(ppbv)	QUAL	LIBRARY	LIB ENTRY	CPND #
Unknown				CAS #:			
16.820	611095	1.34194567	1.3	0	0		47
Unknown				CAS #:			
18.231	1187414	2.60752530	2.6	0	0		47

		CONCENTRATIONS			QUANT		
RT	AREA	ON-COL(ppbv)	FINAL(ppbv)	QUAL	LIBRARY	LIB ENTRY	CPND #
====	====	============	============	====	=======	=========	======
Unknown siloxane derivative				CAS #:			
22.101	773805	1.69925132	1.7	0		0	47

Data File: /chem/X.i/Xsvr.p/xckato15.b/438421.d

Date : 21-NOV-2000 15:13

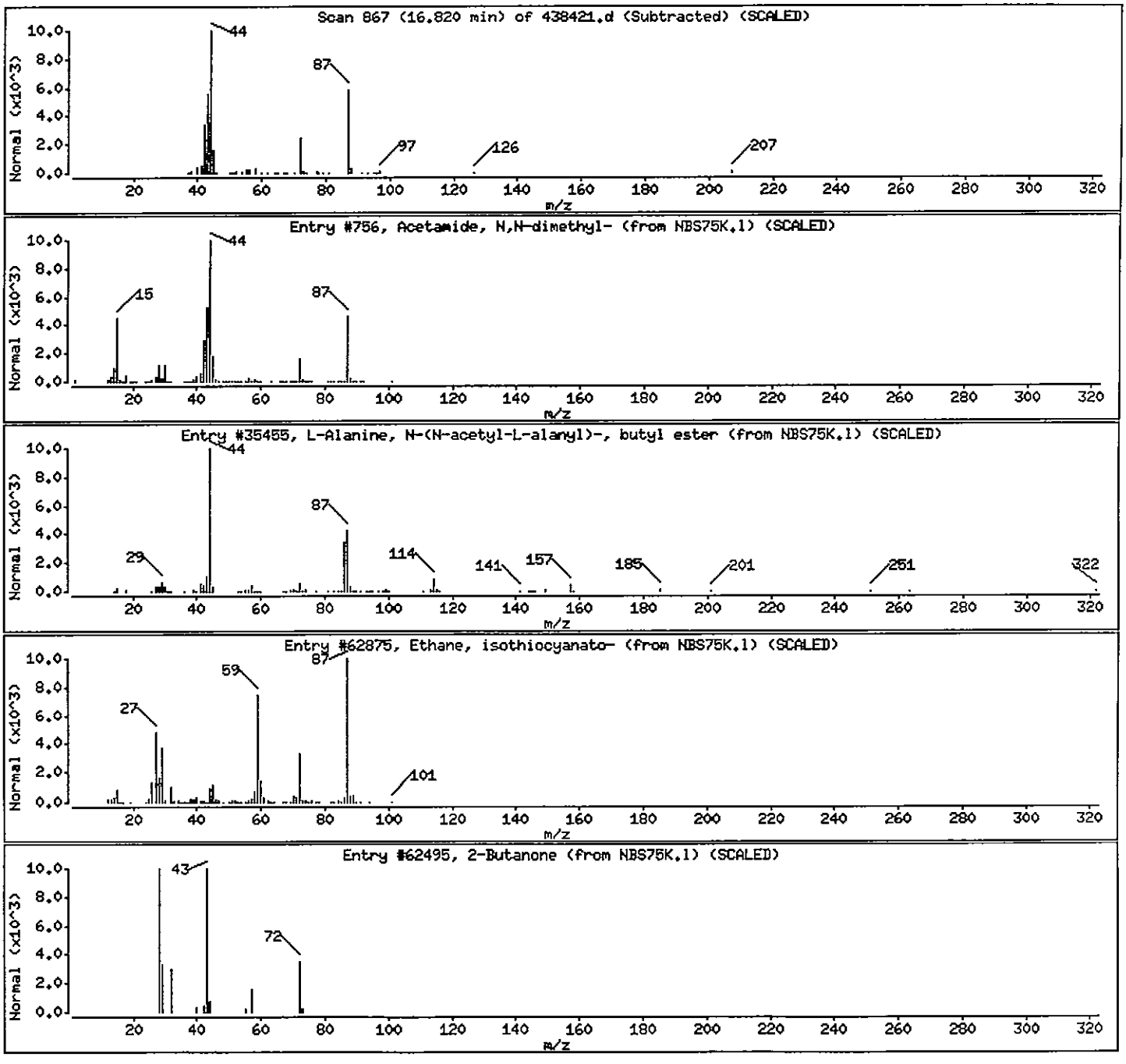
Client ID: A2IA11130006 Instrument: X.i

Sample Info: 438421;029ACA2IA11130006;80694;1121H7

Purge Volume: 200.0 Operator: GMH

Column phase: DB-1 Column diameter: 0.35

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Acetamide, N,N-dimethyl-	127-19-5	NBS75K.l	756	86	C4H9NO	87
L-Alanine, N-(N-acetyl-L-alanyl)-, butyl	55712-39-5	NBS75K.l	35455	36	C12H22N2O4	258
Ethane, isothiocyanato-	542-85-8	NBS75K.l	62875	9	C3H5NS	87
2-Butanone	78-93-3	NBS75K.l	62495	9	C4H8O	72



Data File: /chem/X.i/Xsvr.p/xckato15.b/438421.d

Date : 21-NOV-2000 15:13

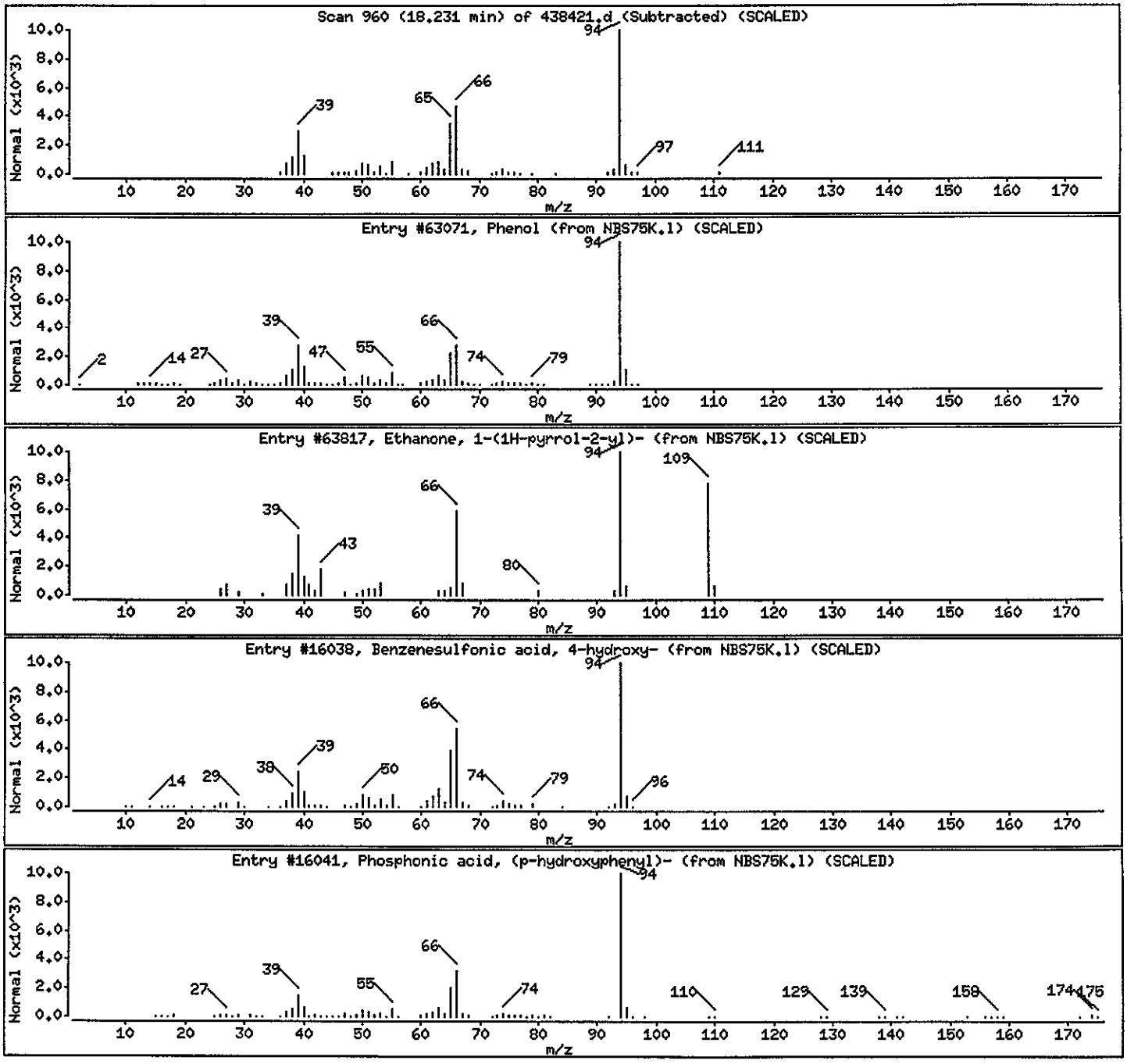
Client ID: A2IA11130006 Instrument: X.i

Sample Info: 438421;029ACA2IA11130006;80694;1121H7

Purge Volume: 200.0 Operator: GHH

Column phase: DB-1 Column diameter: 0.35

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Phenol	108-95-2	NBS75K.l	63071	94	C6H6O	94
Ethanone, 1-(1H-pyrrol-2-yl)-	1072-83-9	NBS75K.l	63817	72	C6H7NO	109
Benzenesulfonic acid, 4-hydroxy-	98-67-9	NBS75K.l	16038	72	C6H6O4S	174
Phosphonic acid, (p-hydroxyphenyl)-	33795-18-5	NBS75K.l	16041	50	C6H7O4P	174



Data File: /chem/X.i/Xsvr.p/xckato15.b/438421.d

Date : 21-NOV-2000 15:13

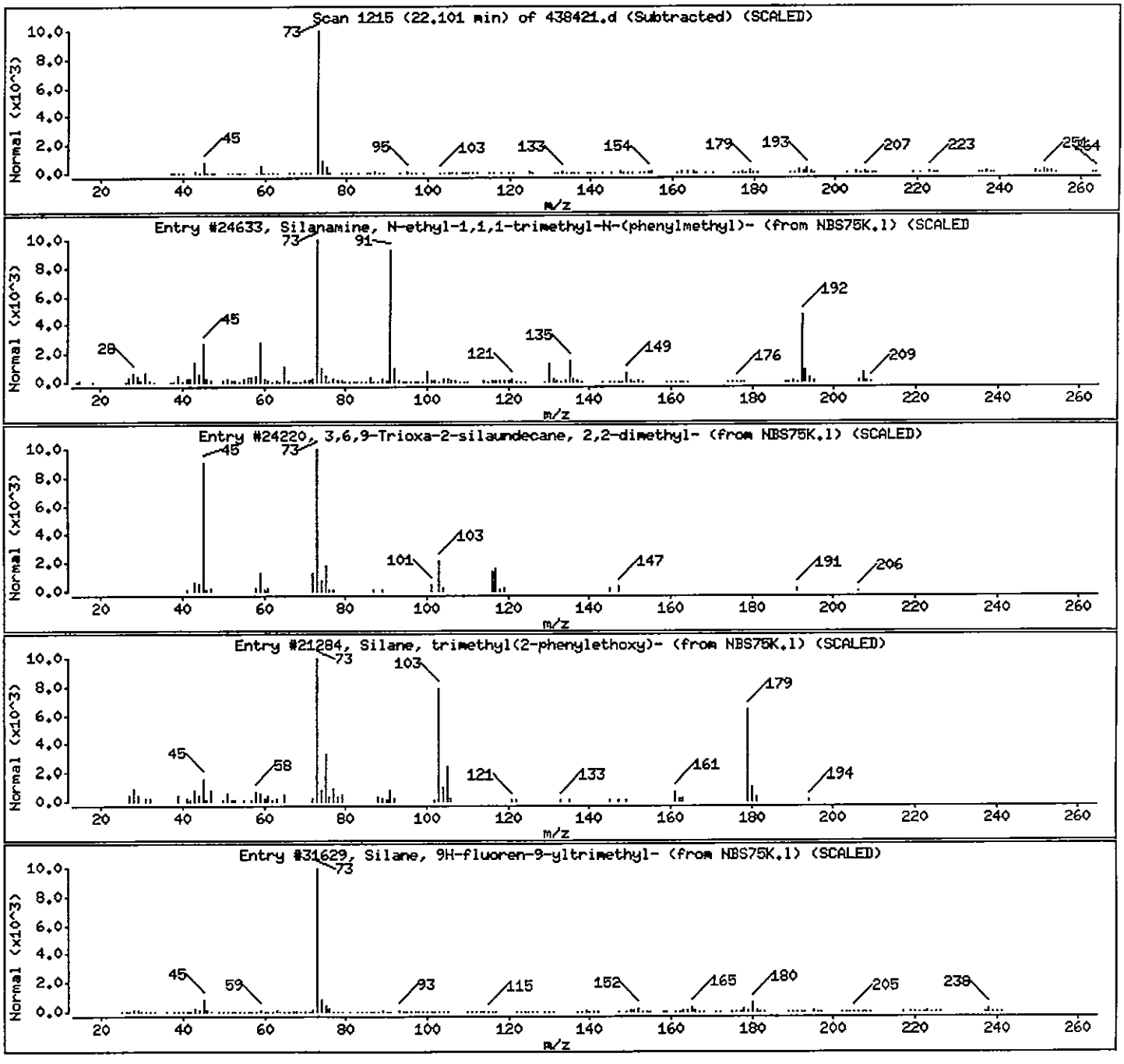
Client ID: A2IA11130006 Instrument: X.i

Sample Info: 438421;029ACA2IA11130006;80694;1121H7

Purge Volume: 200.0 Operator: CHH

Column phase: DB-1 Column diameter: 0.35

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown siloxane derivative						
Silanamine, N-ethyl-1,1,1-trimethyl-N-(p	14629-66-4	NBS75K.l	24633	9	C12H21NSi	207
3,6,9-Trioxa-2-silaundecane, 2,2-dimethy	16654-46-9	NBS75K.l	24220	7	C9H2203Si	206
Silane, trimethyl(2-phenylethoxy)-	14629-58-4	NBS75K.l	21284	7	C11H18OSi	194
Silane, 9H-fluoren-9-yltrimethyl-	7385-10-6	NBS75K.l	31629	5	C16H18Si	238



FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

ACCANA SAMPLE NO.

CAEA11130006

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 80694

Matrix: (soil/water) AIR Lab Sample ID: 438422

Sample wt/vol: 200 (g/mL) ML Lab File ID: 438422

Level: (low/med) LOW Date Received: 11/16/00

% Moisture: not dec. _____ Date Analyzed: 11/21/00

GC Column: DB-1 ID: 0.35 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) PPBV	Q
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl Chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-09-2	Methylene Chloride	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
56-23-5	Carbon Tetrachloride	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-88-3	Toluene	7.6	
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	11	
1330-20-7	Xylene (m,p)	6.1	
100-42-5	Styrene	0.50	U
95-47-6	Xylene (o)	1.0	
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

ACCANA SAMPLE NO.

CAEA11130006

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 80694

Matrix: (soil/water) AIR Lab Sample ID: 438422

Sample wt/vol: 200 (g/mL) ML Lab File ID: 438422

Level: (low/med) LOW Date Received: 11/16/00

% Moisture: not dec. _____ Date Analyzed: 11/21/00

GC Column: DB-1 ID: 0.35 (mm) Dilution Factor: 1.0

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

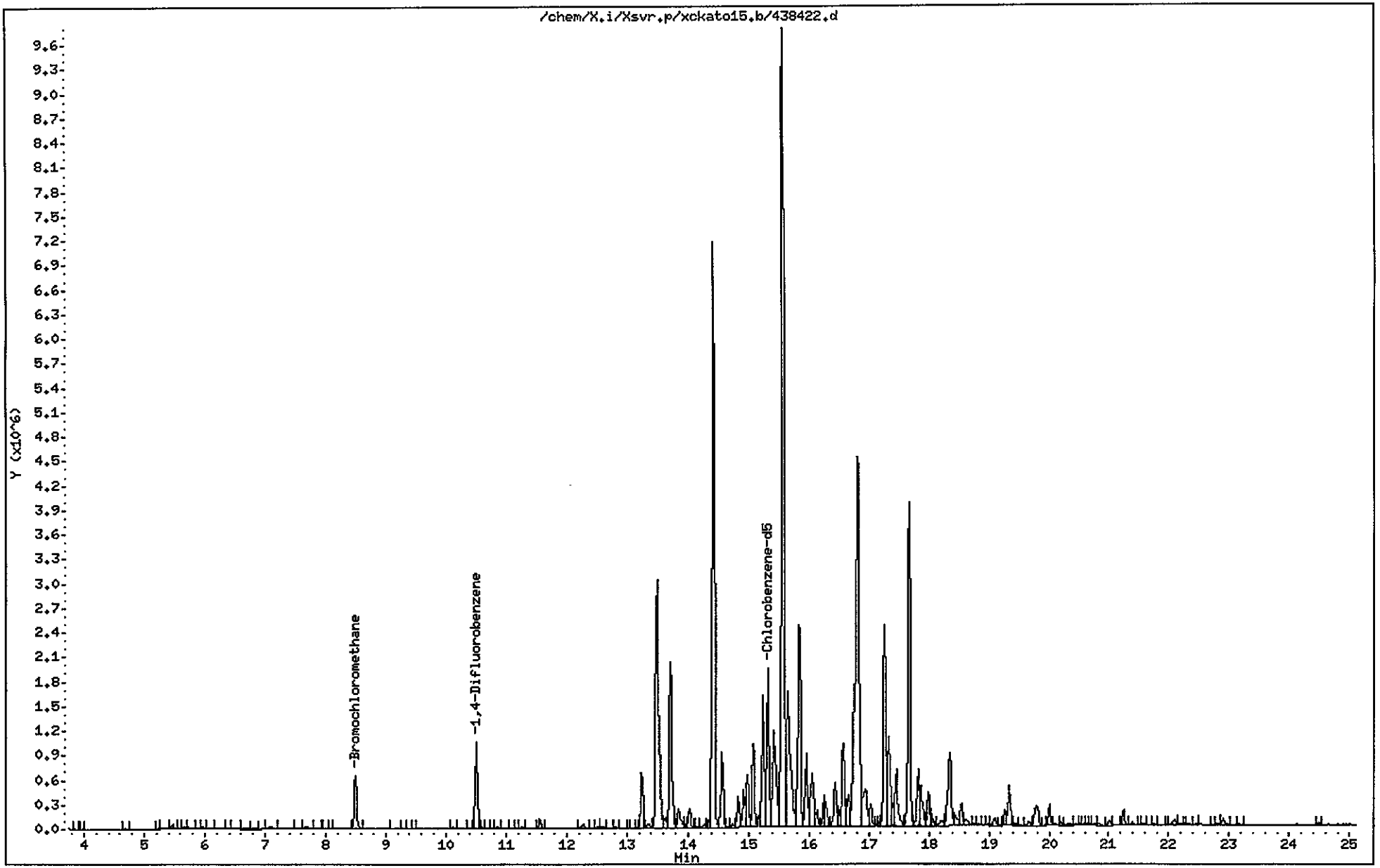
Number TICs found: 10

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

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		UNKNOWN ALIPHATIC COMPOUND	13.50	21	J
2.		UNKNOWN ALIPHATIC COMPOUND	13.71	12	J
3.		UNKNOWN ALIPHATIC COMPOUND	14.42	36	J
4.		UNKNOWN	15.24	9.7	J
5.		UNKNOWN	15.42	10	J
6.		UNKNOWN ALIPHATIC COMPOUND	15.58	58	J
7.		UNKNOWN ALIPHATIC COMPOUND	15.65	15	J
8.		UNKNOWN	16.81	38	J
9.		UNKNOWN	17.34	7.5	J
10.		UNKNOWN	17.67	21	JB
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					

Data File: /chem/X.i/Xsvr.p/xckato15.b/438422.d
Date : 21-NOV-2000 15:49
Client ID: CAEA11130006
Sample Info: 438422;029ACAEA11130006;80694;1121H7
Purge Volume: 200.0
Column phase: DB-1

Instrument: X.i
Operator: GMM
Column diameter: 0.35



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STL Burlington

AIR TOXICS QUANTITATION REPORT

Data file : /chem/X.i/Xsvr.p/xckato15.b/438422.d
Lab Smp Id: 438422 Client Smp ID: CAEA11130006
Inj Date : 21-NOV-2000 15:49
Operator : GMM Inst ID: X.i
Smp Info : 438422;029ACAEA11130006;80694;1121H7
Misc Info :
Comment :
Method : /chem/X.i/Xsvr.p/xckato15.b/ato15.m
Meth Date : 28-Nov-2000 14:00 mim Quant Type: ISTD
Cal Date : 20-NOV-2000 10:11 Cal File: ck040.d
Als bottle: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ACCANA2.sub
Target Version: 3.50
Processing Host: chemsvr4

Concentration Formula: Amt * DF * X* Uf/Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
X	200.00000	method volume factor
Uf	1.00000	ng unit correction factor
Vo	200.00000	Sample Volume purged (mL)

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	FINAL (ppbv)
2	Chloromethane	50	Compound Not Detected.					
4	Vinyl Chloride	62	Compound Not Detected.					
6	Bromomethane	94	Compound Not Detected.					
7	Chloroethane	64	Compound Not Detected.					
10	Trichlorofluoromethane	101	Compound Not Detected.					
13	Methylene Chloride	49	Compound Not Detected.					
18	1,1-Dichloroethane	63	Compound Not Detected.					
21	cis-1,2-Dichloroethene	61	Compound Not Detected.					
* 22	Bromochloromethane	128	8.504	8.473	(1.000)	227248	10.0000	
24	Chloroform	83	Compound Not Detected.					
26	1,2-Dichloroethane	62	Compound Not Detected.					
27	1,1,1-Trichloroethane	97	Compound Not Detected.					
28	Benzene	78	Compound Not Detected.					
29	Carbon Tetrachloride	117	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)
*	31 1,4-Difluorobenzene	114	10.507	10.461	(1.000)	1077334	10.0000	
	32 1,2-Dichloropropane	63	Compound Not Detected.					
	34 Trichloroethene	95	Compound Not Detected.					
	38 cis-1,3-Dichloropropene	75	Compound Not Detected.					
	40 trans-1,3-Dichloropropene	75	Compound Not Detected.					
	41 1,1,2-Trichloroethane	83	Compound Not Detected.					
	42 Toluene	92	13.239	13.208	(0.864)	371811	7.58569	7.6
	46 Tetrachloroethene	166	Compound Not Detected.					
*	47 Chlorobenzene-d5	117	15.318	15.272	(1.000)	1233858	10.0000	
	48 Chlorobenzene	112	Compound Not Detected.					
	49 Ethylbenzene	91	15.849	15.803	(1.035)	1231244	10.7218	11
	50 Xylene (m,p)	106	16.061	16.015	(1.049)	234781	6.08338	6.1
	52 Styrene	104	Compound Not Detected.					
	53 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					
	54 Xylene (o)	106	16.668	16.622	(1.088)	37079	1.00142	1.0
	59 1,3-Dichlorobenzene	146	Compound Not Detected.					
	60 1,4-Dichlorobenzene	146	Compound Not Detected.					
	61 1,2-Dichlorobenzene	146	Compound Not Detected.					

STL Burlington

AIR TOXICS QUANTITATION REPORT

Data file : /chem/X.i/Xsvr.p/xckato15.b/438422.d
Lab Smp Id: 438422 Client Smp ID: CAEA11130006
Inj Date : 21-NOV-2000 15:49
Operator : GMM Inst ID: X.i
Smp Info : 438422;029ACAEA11130006;80694;1121H7
Misc Info :
Comment :
Method : /chem/X.i/Xsvr.p/xckato15.b/ato15.m
Meth Date : 28-Nov-2000 13:48 mim Quant Type: ISTD
Cal Date : 20-NOV-2000 10:11 Cal File: ck040.d
Als bottle: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ACCANA.sub
Target Version: 3.50
Processing Host: chemsvr4

Concentration Formula: Amt * DF * X* Uf/Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
X	200.00000	method volume factor
Uf	1.00000	ng unit correction factor
Vo	200.00000	Sample Volume purged (mL)

Cpnd Variable Local Compound Variable

ISTD	RT	AREA	AMOUNT
* 47 Chlorobenzene-d5	15.318	4986791	10.000

		CONCENTRATIONS			QUANT		
RT	AREA	ON-COL(ppbv)	FINAL(ppbv)	QUAL	LIBRARY	LIB ENTRY	CPND #
Unknown aliphatic compound				CAS #:			
13.497	10333026	20.7207904	21	0	0		47
Unknown aliphatic compound				CAS #:			
13.709	6137484	12.3074794	12	0	0		47

RT	AREA	CONCENTRATIONS ON-COL(ppbv)	FINAL(ppbv)	QUAL	QUANT LIBRARY	LIB ENTRY	CPND #
Unknown aliphatic compound					CAS #:		
14.423	18151152	36.3984572	36	0		0	47
Unknown					CAS #:		
15.242	4830274	9.68613493	9.7	0		0	47
Unknown					CAS #:		
15.424	5255268	10.5383756	10	0		0	47
Unknown aliphatic compound					CAS #:		
15.576	29155580	58.4656069	58	0		0	47
Unknown aliphatic compound					CAS #:		
15.652	7533555	15.1070184	15	0		0	47
Unknown					CAS #:		
16.805	19087489	38.2760908	38	0		0	47
Unknown					CAS #:		
17.336	3745675	7.51119170	7.5	0		0	47
Unknown					CAS #:		
17.670	10519147	21.0940179	21	0		0	47

Data File: /chem/X.i/Xsvr.p/xckato15.b/438422.d

Date : 21-NOV-2000 15:49

Client ID: CAEA11130006

Instrument: X.i

Sample Info: 438422;029ACAEA11130006;80694;1121H7

Purge Volume: 200.0

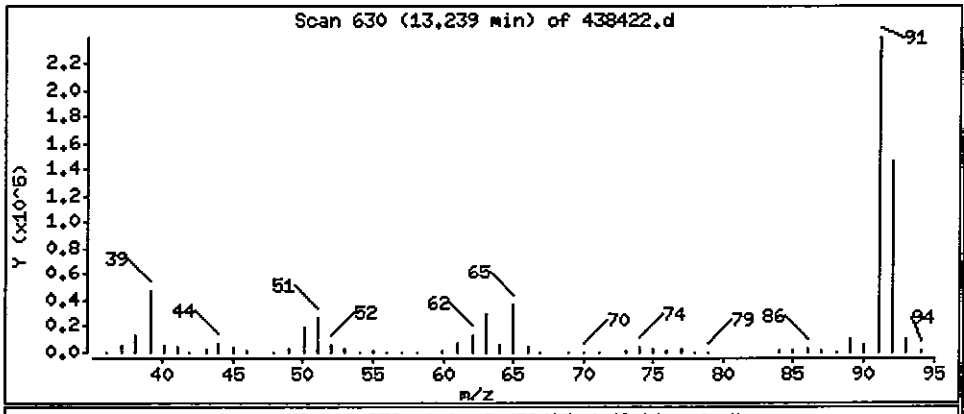
Operator: GHH

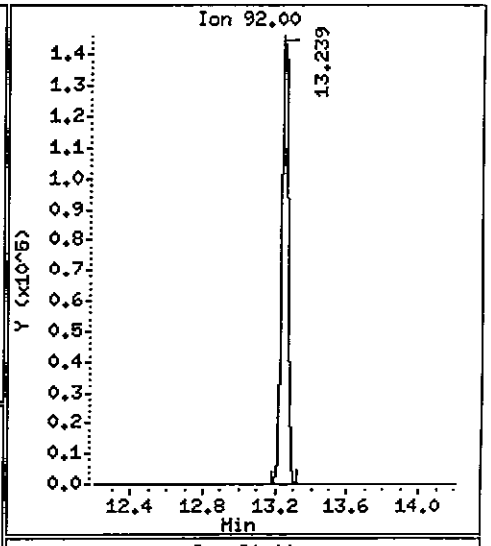
Column phase: DB-1

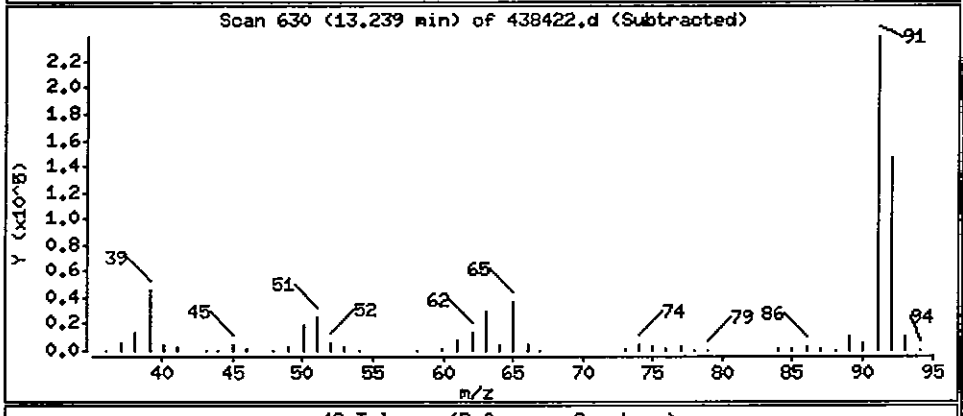
Column diameter: 0.35

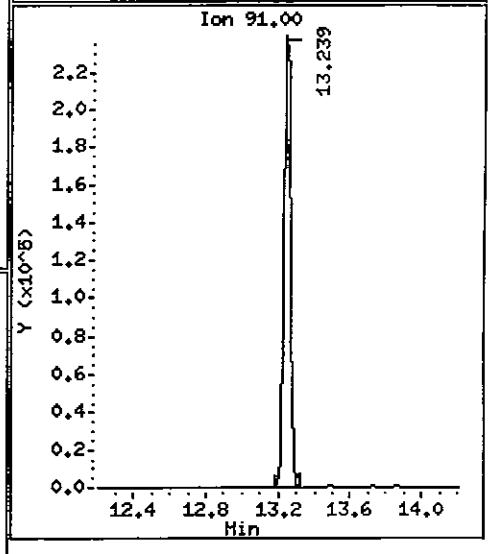
42 Toluene

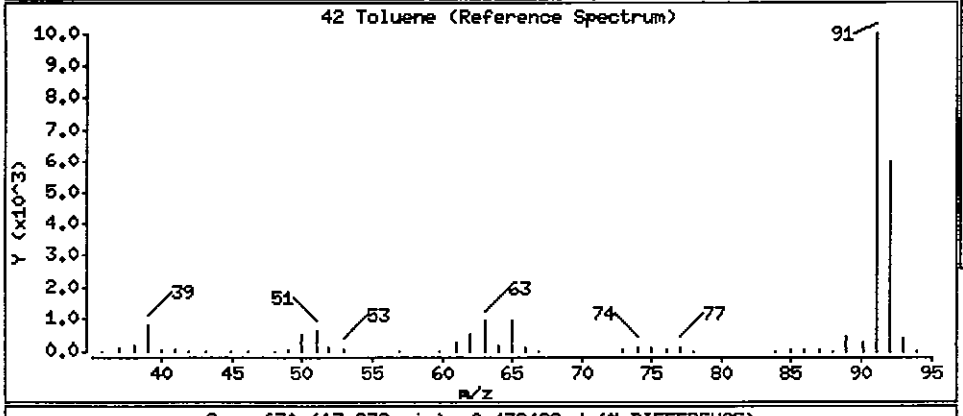
Concentration: 7.6 ppbv

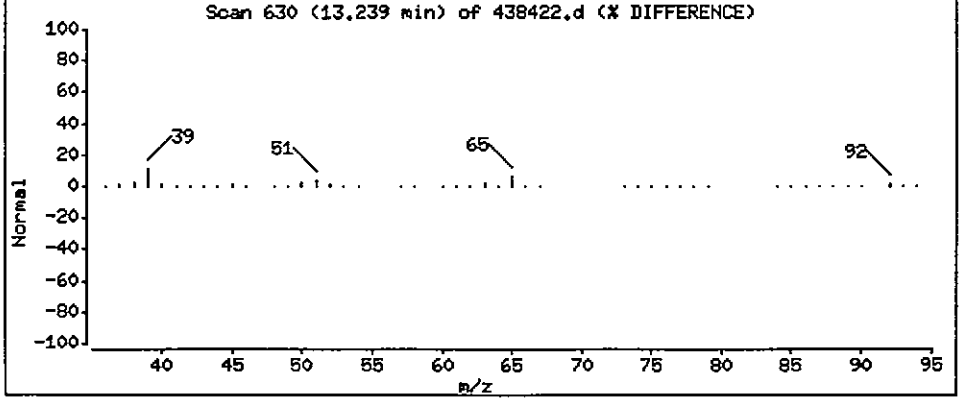












Data File: /chem/X.i/Xsvr.p/xckato15.b/438422.d

Date : 21-NOV-2000 15:49

Client ID: CAEA11130006

Instrument: X.i

Sample Info: 438422;029ACAEA11130006;80694;1121H7

Purge Volume: 200.0

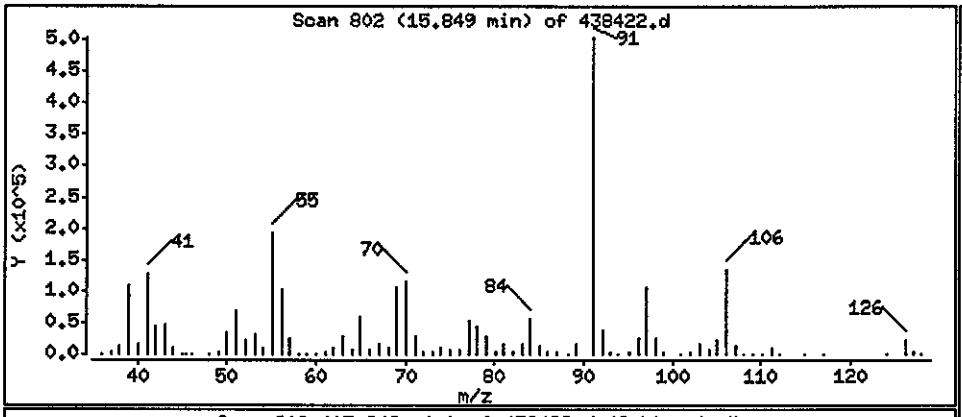
Operator: GMH

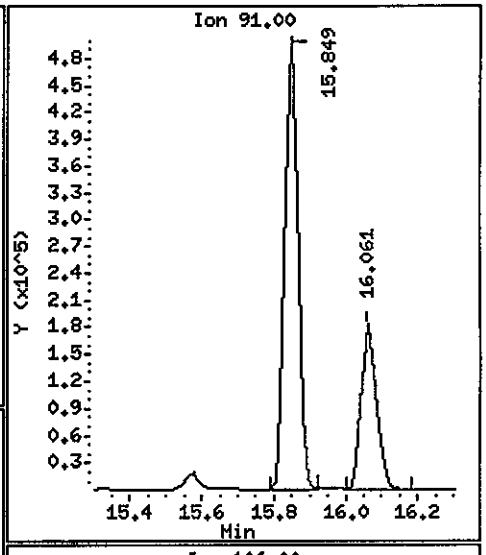
Column phase: DB-1

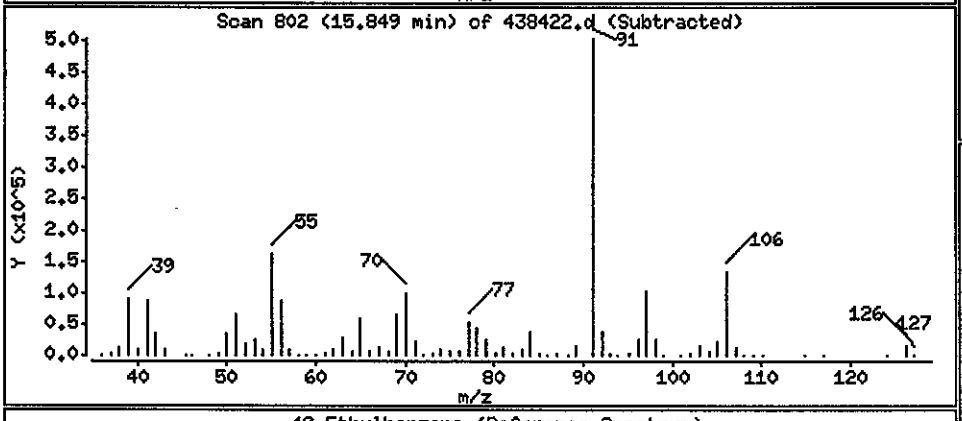
Column diameter: 0.35

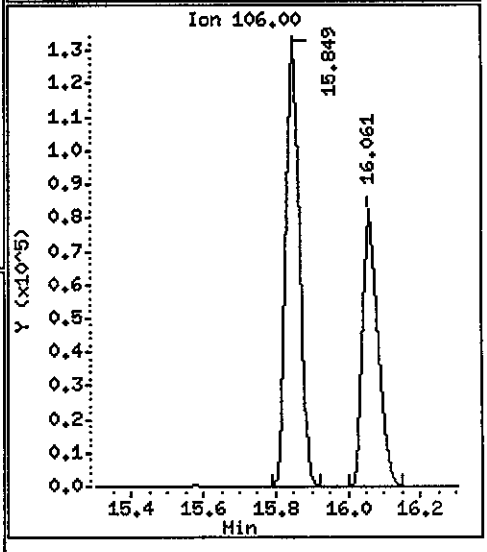
49 Ethylbenzene

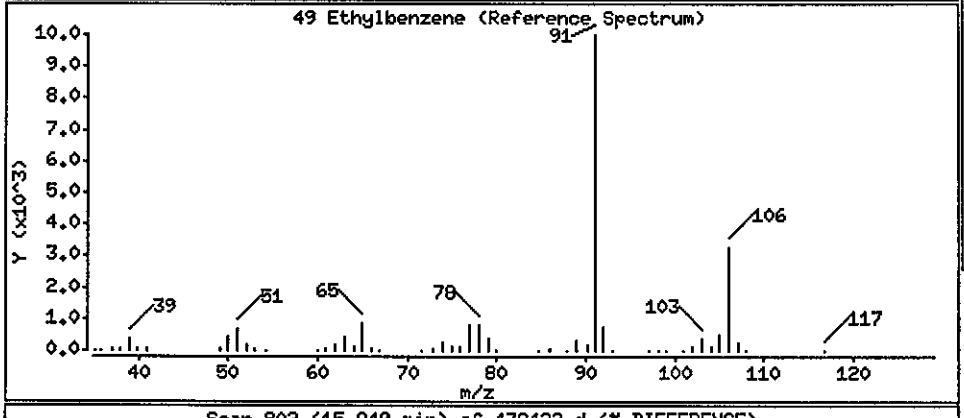
Concentration: 11 ppbv

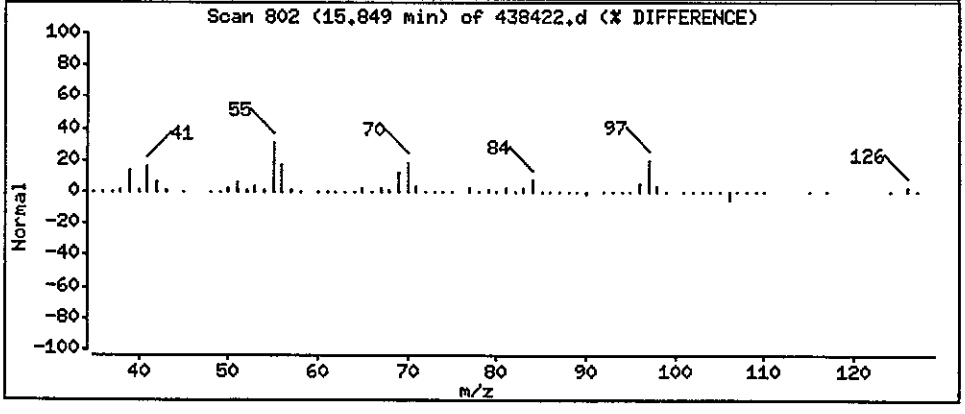












Data File: /chem/X.i/Xsvr.p/xckato15.b/438422.d

Date : 21-NOV-2000 15:49

Client ID: CAEA11130006

Instrument: X.i

Sample Info: 438422;029ACAEA11130006;80694;1121H7

Purge Volume: 200.0

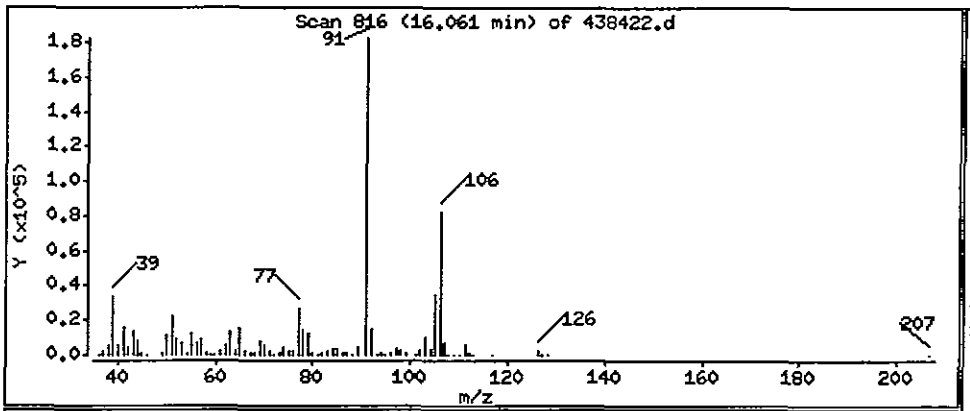
Operator: GHH

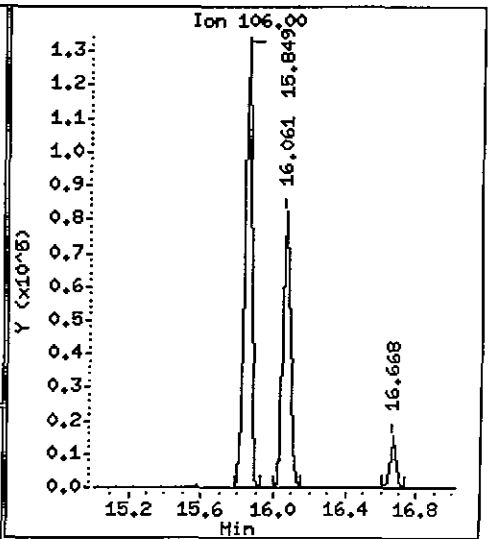
Column phase: DB-1

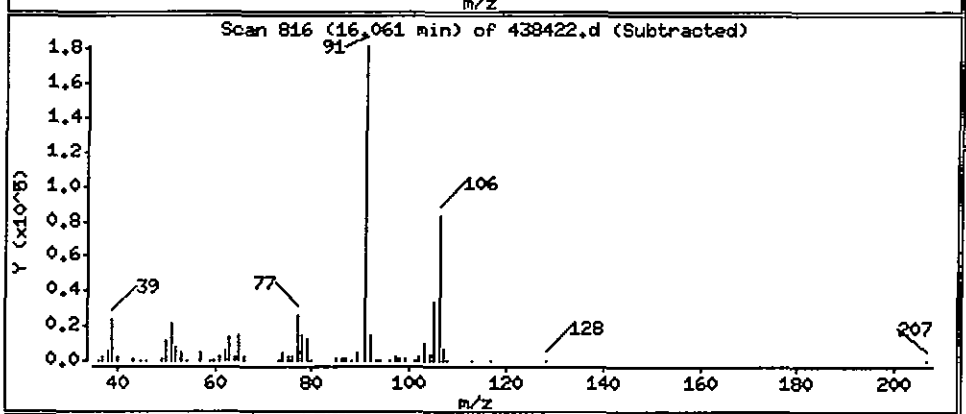
Column diameter: 0.35

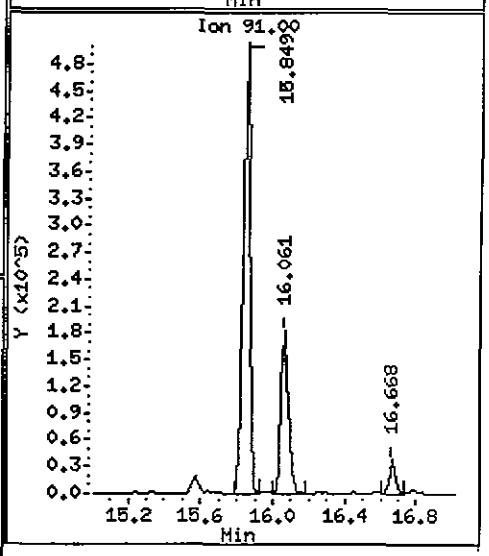
50 Xylene (m,p)

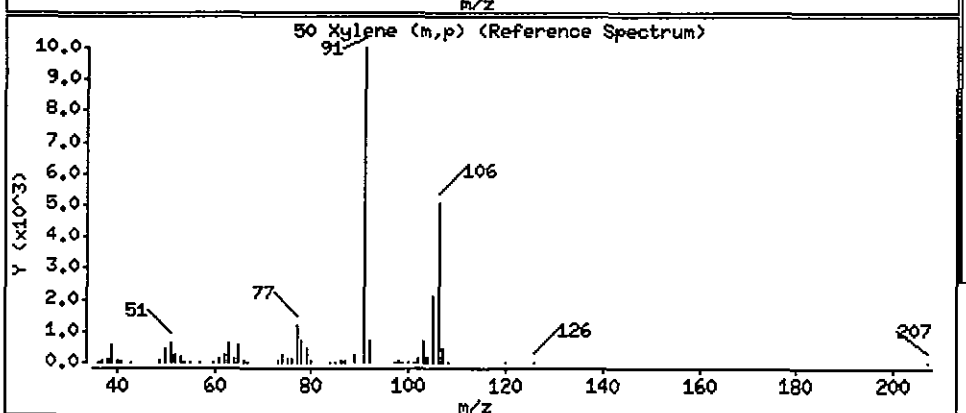
Concentration: 6.1 ppbv

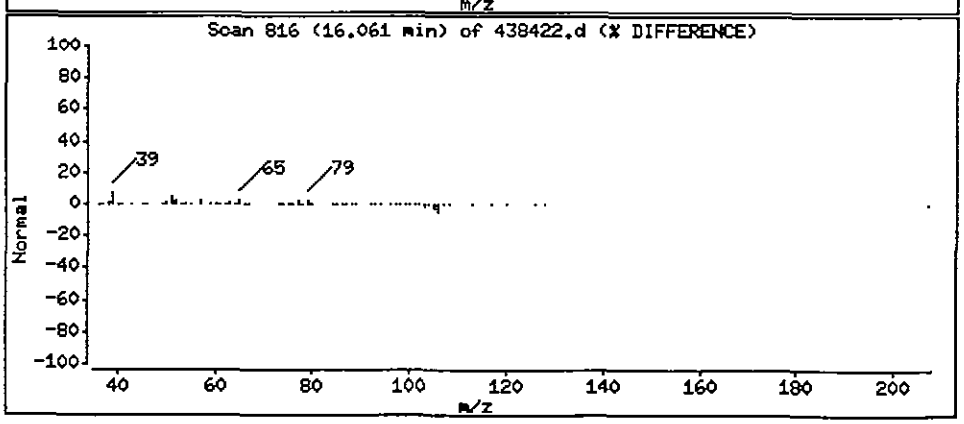












Data File: /chem/X.i/Xsvr.p/xckato15.b/438422.d

Date : 21-NOV-2000 15:49

Client ID: CAEA11130006

Instrument: X.i

Sample Info: 438422;029ACAEA11130006;80694;1121H7

Purge Volume: 200.0

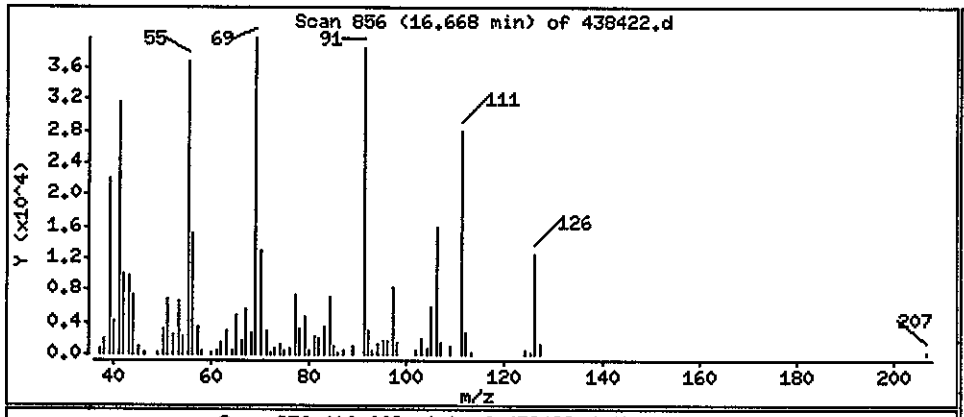
Operator: GMH

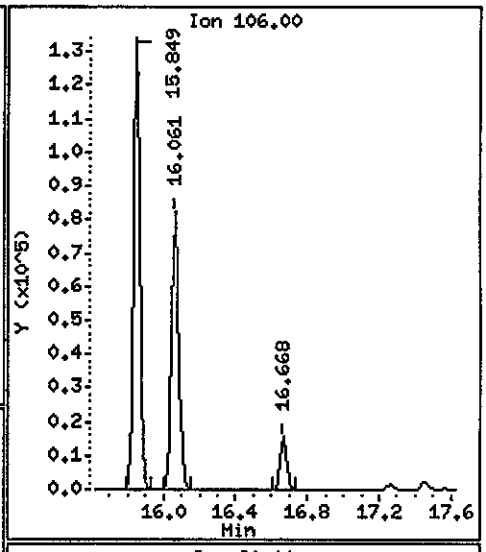
Column phase: DB-1

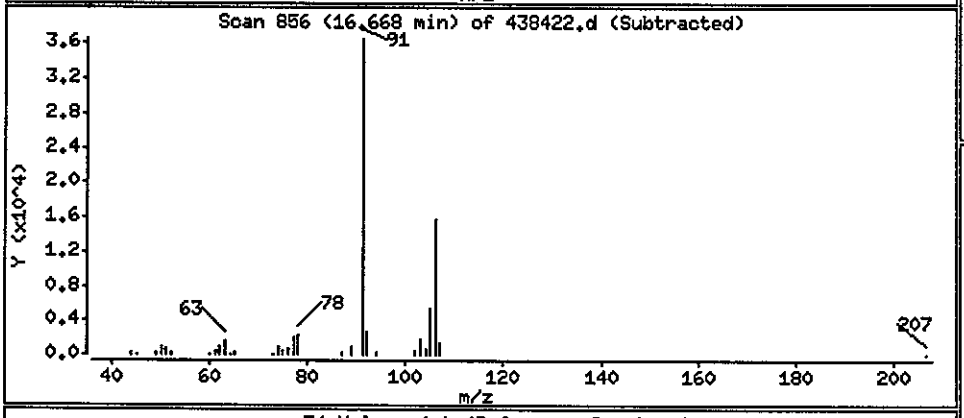
Column diameter: 0.35

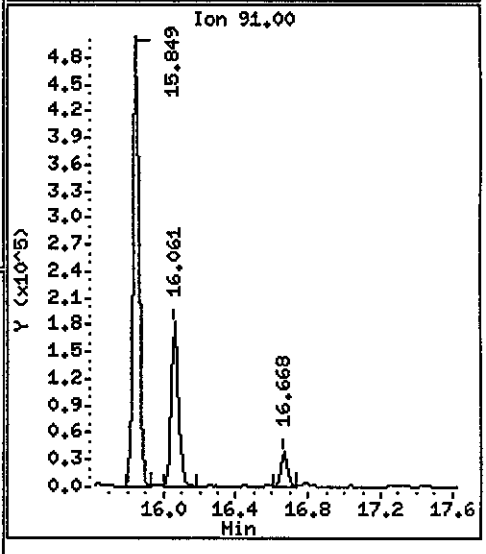
54 Xylene (o)

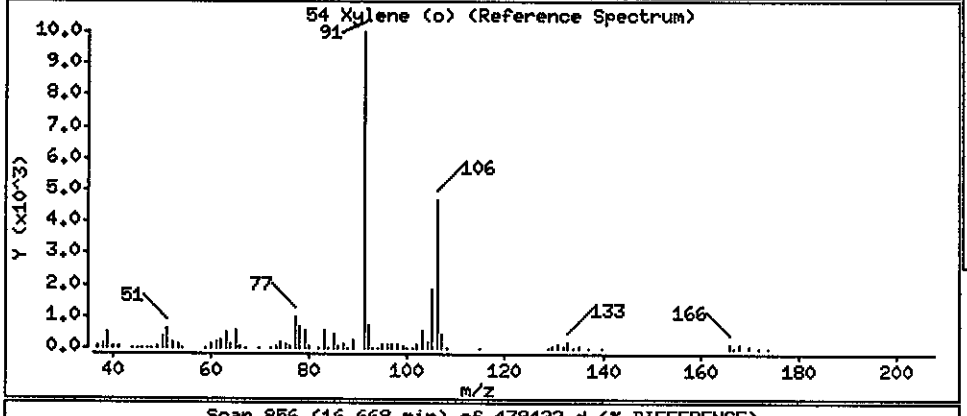
Concentration: 1.0 ppbv

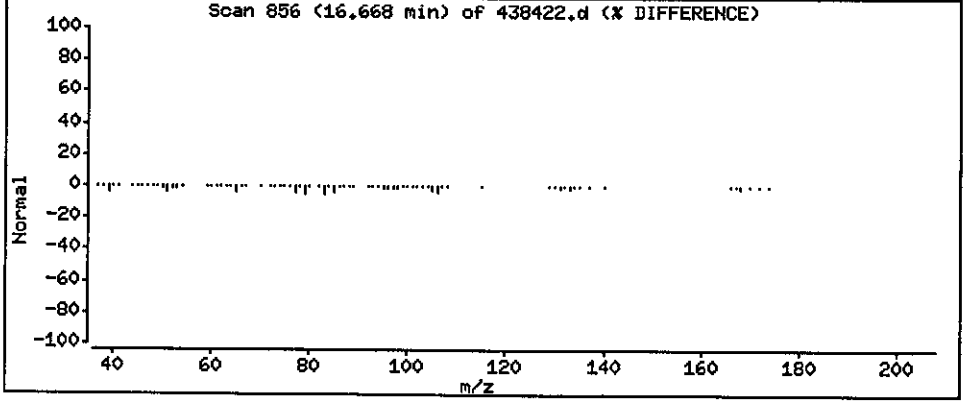












Data File: /chem/X.i/Xsvr.p/xckato15.b/438422.d

Date : 21-NOV-2000 15:49

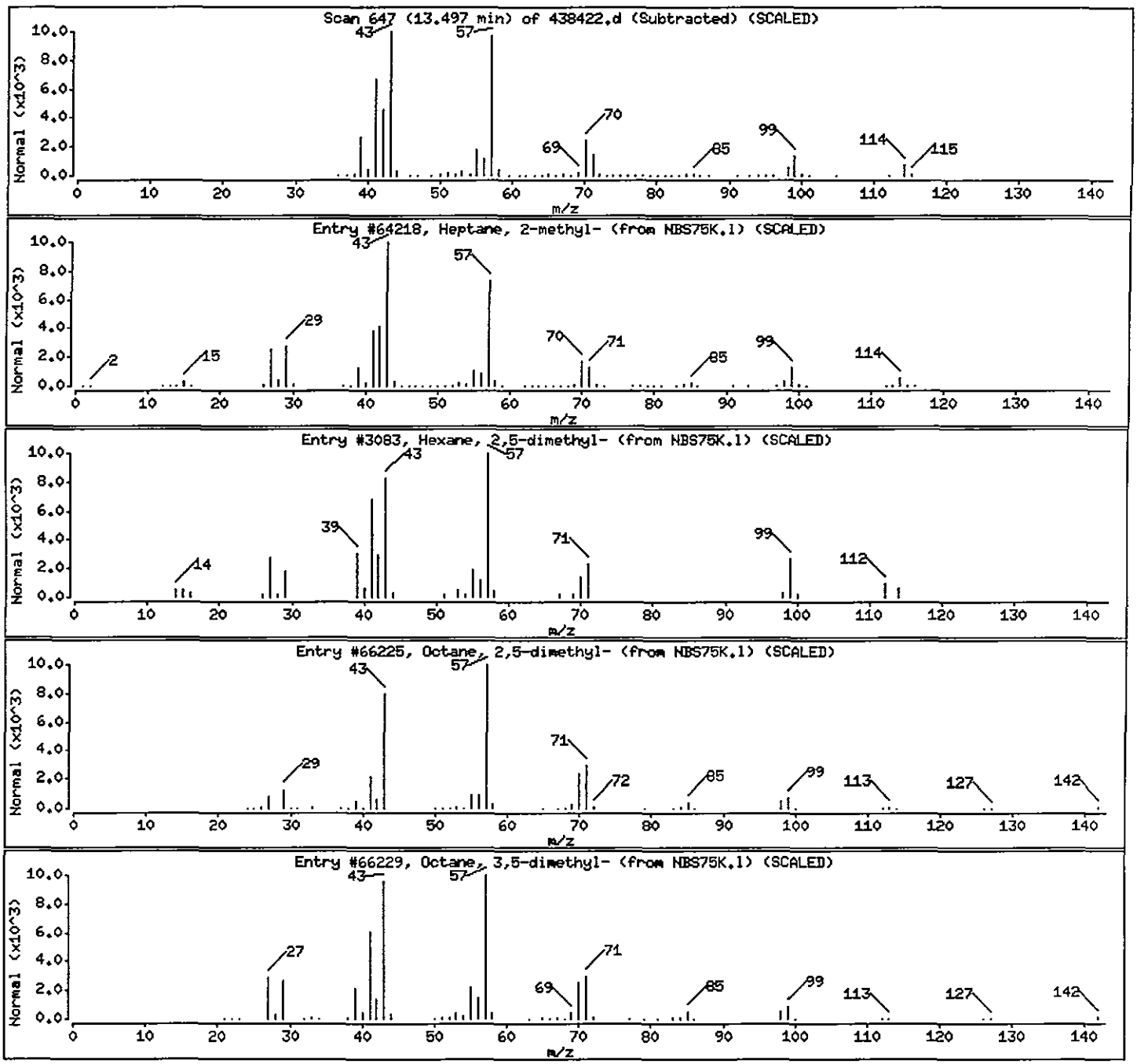
Client ID: CAEA11130006 Instrument: X.i

Sample Info: 438422;029ACAEA11130006;80694;1121H7

Purge Volume: 200.0 Operator: GMH

Column phase: DB-1 Column diameter: 0.35

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown aliphatic compound						
Heptane, 2-methyl-	592-27-8	NBS75K.l	64218	91	C8H18	114
Hexane, 2,5-dimethyl-	592-13-2	NBS75K.l	3083	49	C8H18	114
Octane, 2,5-dimethyl-	15869-89-3	NBS75K.l	66225	47	C10H22	142
Octane, 3,5-dimethyl-	15869-93-9	NBS75K.l	66229	40	C10H22	142



Data File: /chem/X.i/Xsvr.p/xckato15.b/438422.d

Date : 21-NOV-2000 15:49

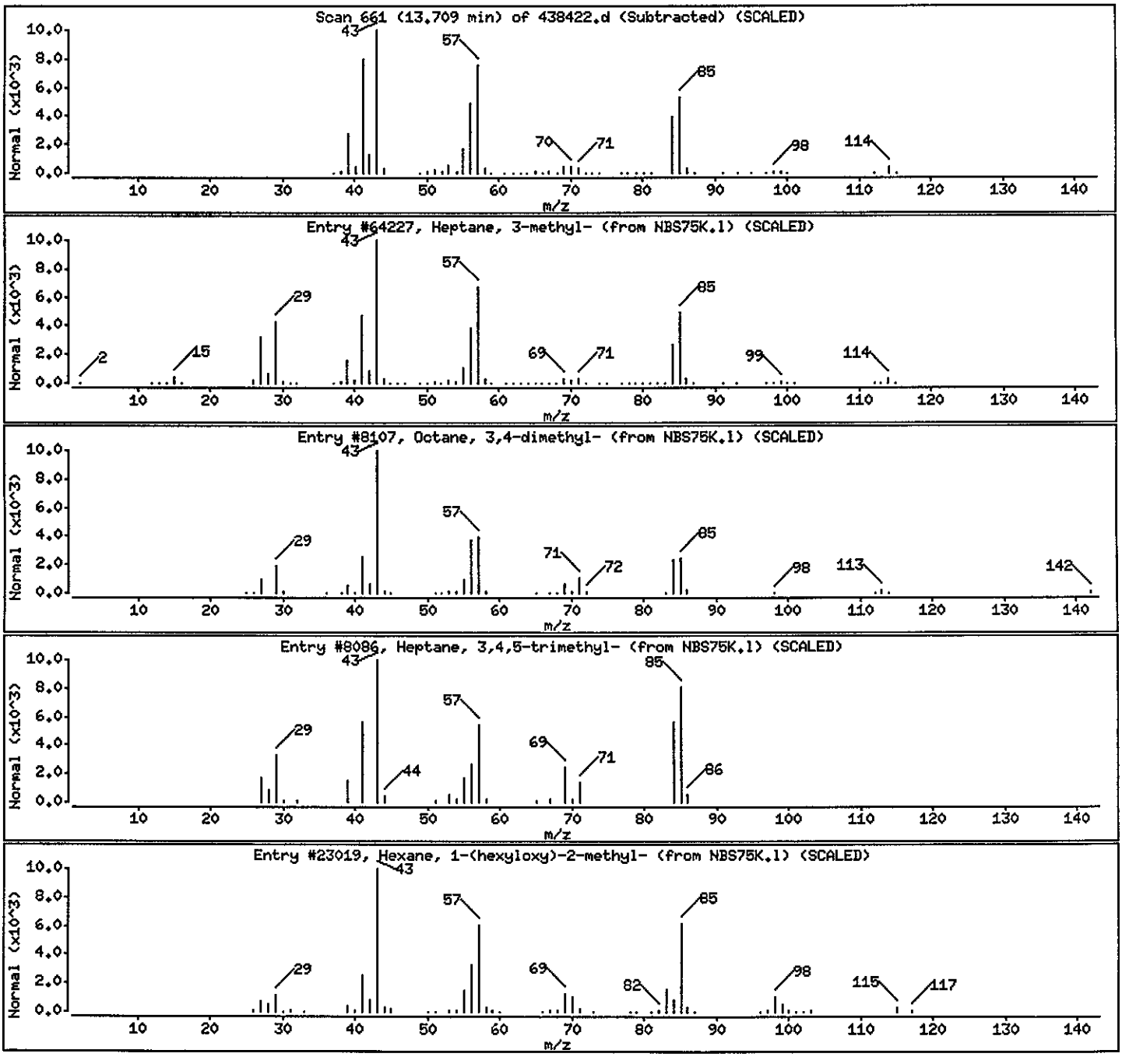
Client ID: CAEA11130006 Instrument: X.i

Sample Info: 438422;029ACAEA11130006;80694;1121H7

Purge Volume: 200.0 Operator: GMM

Column phase: DB-1 Column diameter: 0.35

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown aliphatic compound						
Heptane, 3-methyl-	589-81-1	NBS75K.l	64227	91	C8H18	114
Octane, 3,4-dimethyl-	15869-92-8	NBS75K.l	8107	64	C10H22	142
Heptane, 3,4,5-trimethyl-	20278-89-1	NBS75K.l	8086	59	C10H22	142
Hexane, 1-(hexyloxy)-2-methyl-	74421-17-3	NBS75K.l	23019	53	C13H28O	200



Data File: /chem/X.i/Xsvr.p/xckato15.b/438422.d

Date : 21-NOV-2000 15:49

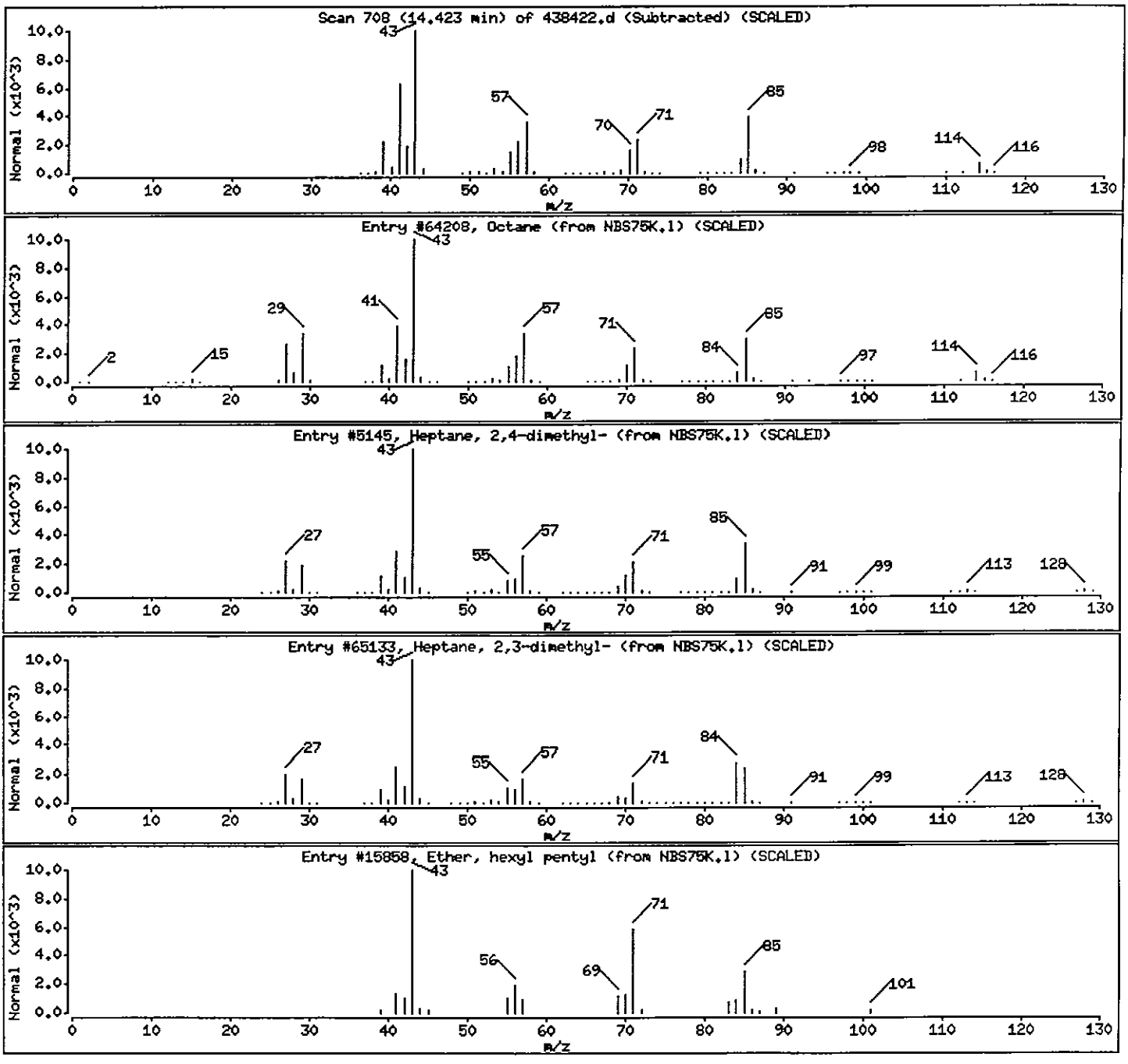
Client ID: CAEA11130006 Instrument: X.i

Sample Info: 438422;029ACAEA11130006;80694;1121H7

Purge Volume: 200.0 Operator: GMH

Column phase: DB-1 Column diameter: 0.35

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown aliphatic compound						
Octane	111-65-9	NBS75K.l	64208	94	C8H18	114
Heptane, 2,4-dimethyl-	2213-23-2	NBS75K.l	5145	64	C9H20	128
Heptane, 2,3-dimethyl-	3074-71-3	NBS75K.l	65133	53	C9H20	128
Ether, hexyl pentyl	32357-83-8	NBS75K.l	15858	45	C11H24O	172



Data File: /chem/X.i/Xsvr.p/xckato15.b/438422.d

Date : 21-NOV-2000 15:49

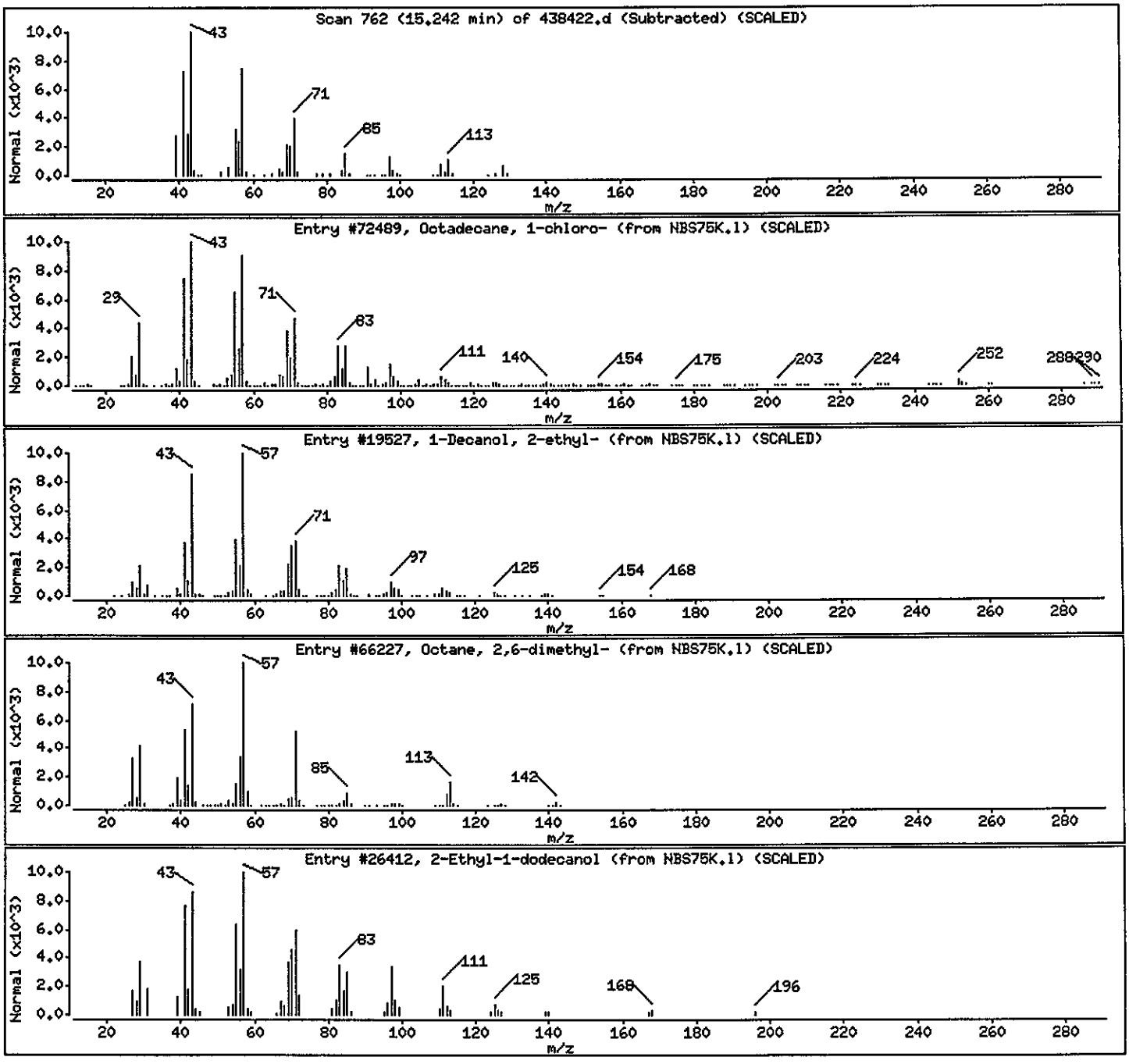
Client ID: CAEA11130006 Instrument: X.i

Sample Info: 438422;029ACAEA11130006;80694;1121H7

Purge Volume: 200.0 Operator: GMH

Column phase: DB-1 Column diameter: 0.35

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Octadecane, 1-chloro-	3386-33-2	NBS75K.l	72489	59	C18H37Cl	288
1-Decanol, 2-ethyl-	21078-65-9	NBS75K.l	19527	53	C12H26O	186
Octane, 2,6-dimethyl-	2051-30-1	NBS75K.l	66227	50	C10H22	142
2-Ethyl-1-dodecanol	0-00-0	NBS75K.l	26412	47	C14H30O	214



Data File: /chem/X.i/Xsvr.p/xckato15.b/438422.d

Date : 21-NOV-2000 15:49

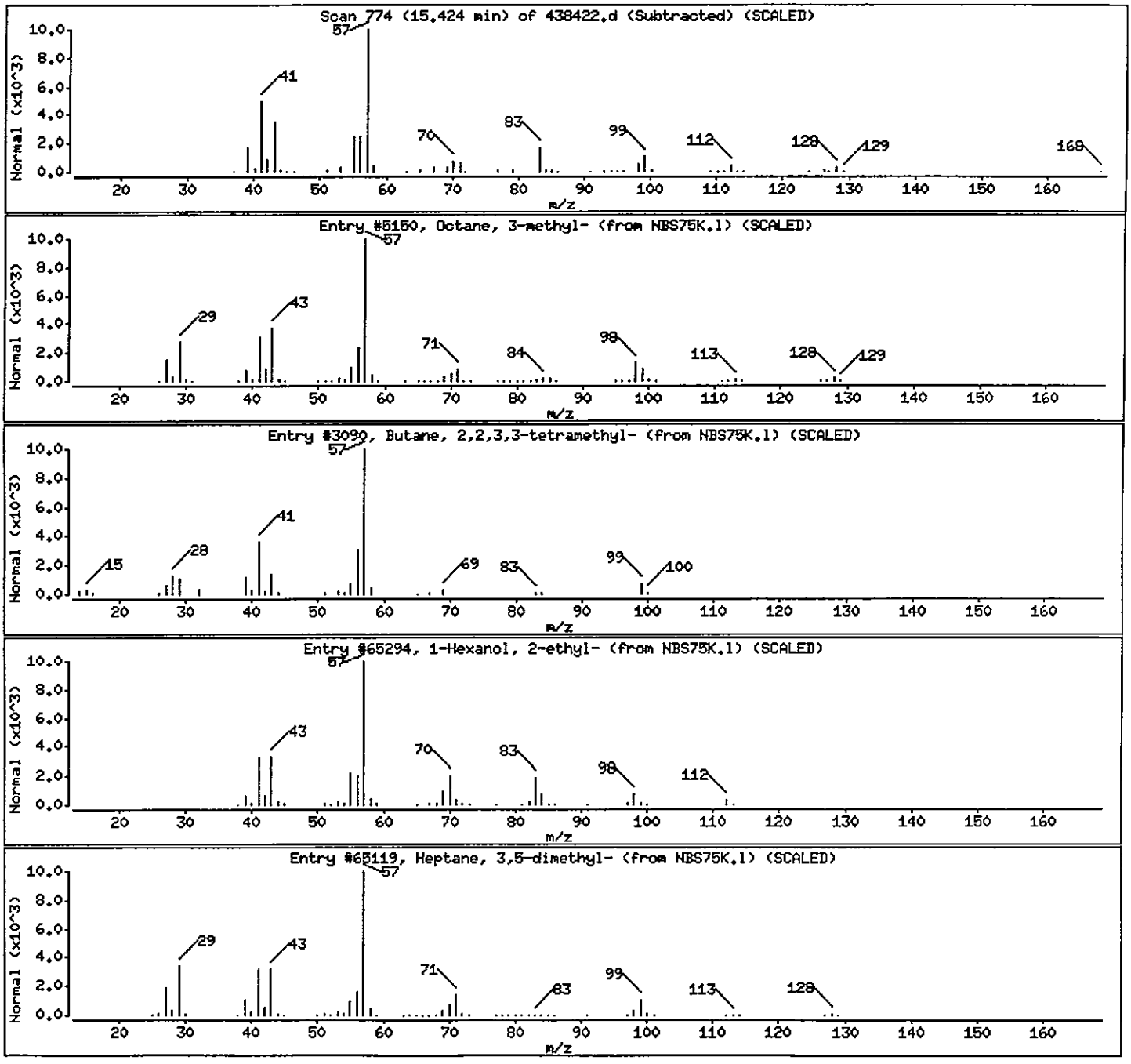
Client ID: CAEA11130006 Instrument: X.i

Sample Info: 438422;029ACAEA11130006;80694;1121H7

Purge Volume: 200.0 Operator: GHH

Column phase: DB-1 Column diameter: 0.35

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Octane, 3-methyl-	2216-33-3	NBS75K.l	5150	50	C9H20	128
Butane, 2,2,3,3-tetramethyl-	594-82-1	NBS75K.l	3090	50	C8H18	114
1-Hexanol, 2-ethyl-	104-76-7	NBS75K.l	65294	47	C8H18O	130
Heptane, 3,5-dimethyl-	926-82-9	NBS75K.l	65119	43	C9H20	128



Data File: /chem/X.i/Xsvr.p/xckato15.b/438422.d

Date : 21-NOV-2000 15:49

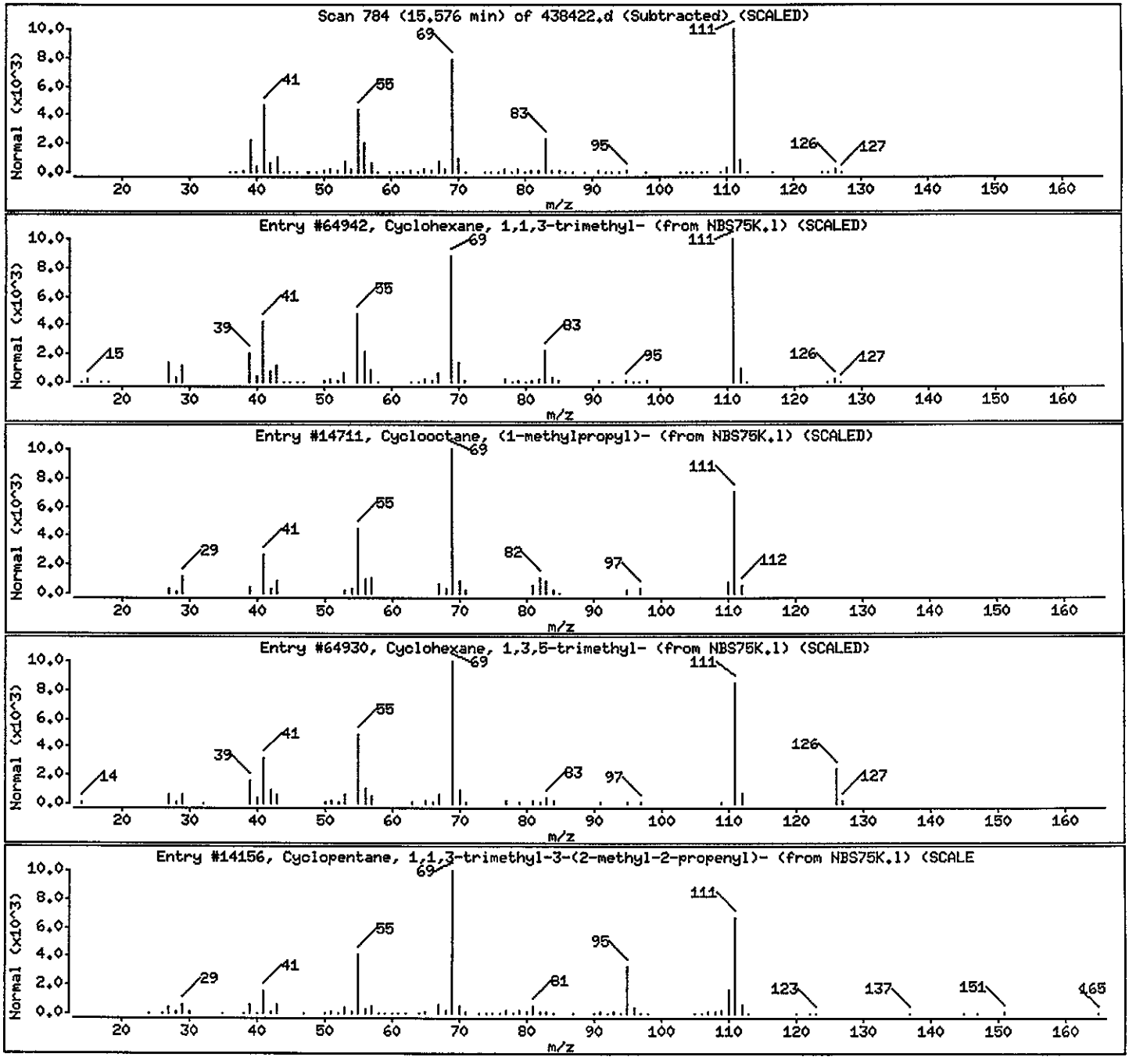
Client ID: CAEA11130006 Instrument: X.i

Sample Info: 438422;029ACAEA11130006;80694;1121H7

Purge Volume: 200.0 Operator: GMH

Column phase: DB-1 Column diameter: 0.35

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown aliphatic compound						
Cyclohexane, 1,1,3-trimethyl-	3073-66-3	NBS75K.l	64942	95	C9H18	126
Cyclooctane, (1-methylpropyl)-	16538-89-9	NBS75K.l	14711	72	C12H24	168
Cyclohexane, 1,3,5-trimethyl-	1839-63-0	NBS75K.l	64930	64	C9H18	126
Cyclopentane, 1,1,3-trimethyl-3-(2-methy	74421-09-3	NBS75K.l	14156	59	C12H22	166



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Date : 21-NOV-2000 15:49

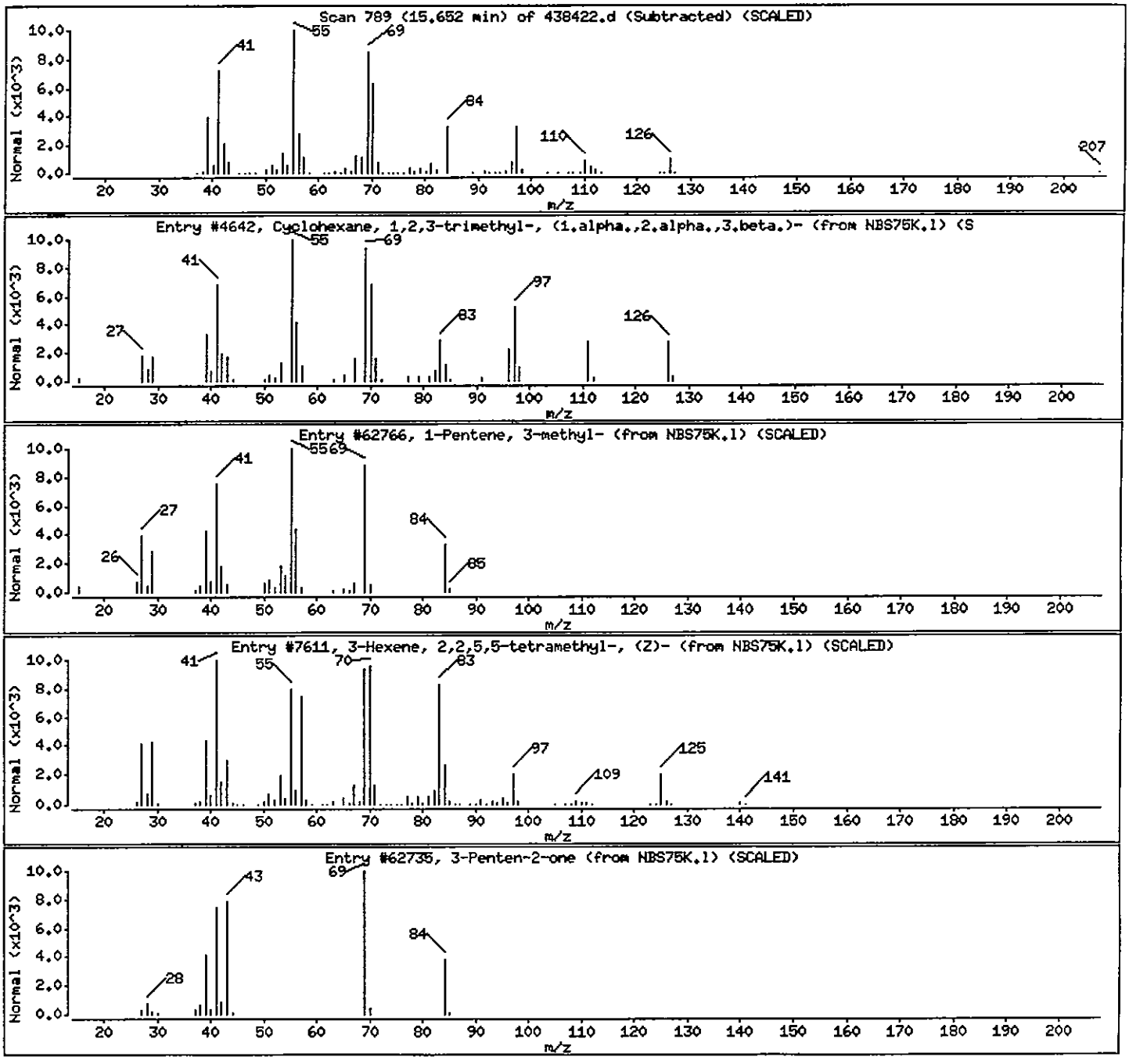
Client ID: CAEA11130006 Instrument: X.i

Sample Info: 438422;029ACAEA11130006;80694;1121H7

Purge Volume: 200.0 Operator: CHH

Column phase: DB-1 Column diameter: 0.35

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown aliphatic compound						
Cyclohexane, 1,2,3-trimethyl-, (1.alpha.	7667-55-2	NBS75K.l	4642	53	C9H18	126
1-Pentene, 3-methyl-	760-20-3	NBS75K.l	62766	52	C6H12	84
3-Hexene, 2,2,5,5-tetramethyl-, (Z)-	692-47-7	NBS75K.l	7611	50	C10H20	140
3-Penten-2-one	625-33-2	NBS75K.l	62735	43	C5H8O	84



Data File: /chem/X.i/Xsvr.p/xckato15.b/438422.d

Date : 21-NOV-2000 15:49

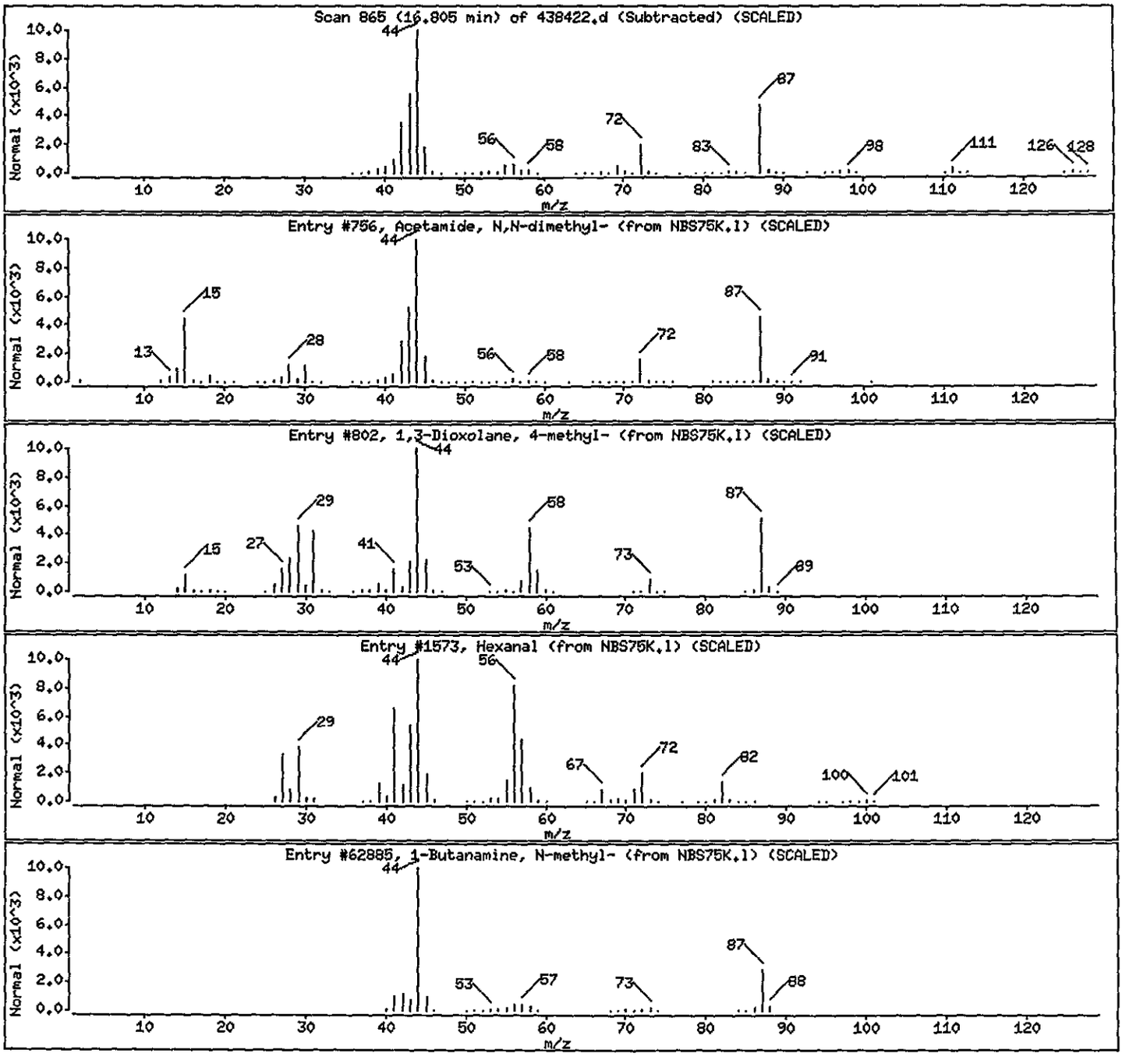
Client ID: CAEA11130006 Instrument: X.i

Sample Info: 438422;029ACAEA11130006;80694;1121H7

Purge Volume: 200.0 Operator: GHM

Column phase: DB-1 Column diameter: 0.35

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Acetamide, N,N-dimethyl-	127-19-5	NBS75K.l	756	87	C4H9NO	87
1,3-Dioxolane, 4-methyl-	1072-47-5	NBS75K.l	802	42	C4H8O2	88
Hexanal	66-25-1	NBS75K.l	1573	28	C6H12O	100
1-Butanamine, N-methyl-	110-68-9	NBS75K.l	62885	10	C5H13N	87



Data File: /chem/X.i/Xsvr.p/xckato15.b/438422.d

Date : 21-NOV-2000 15:49

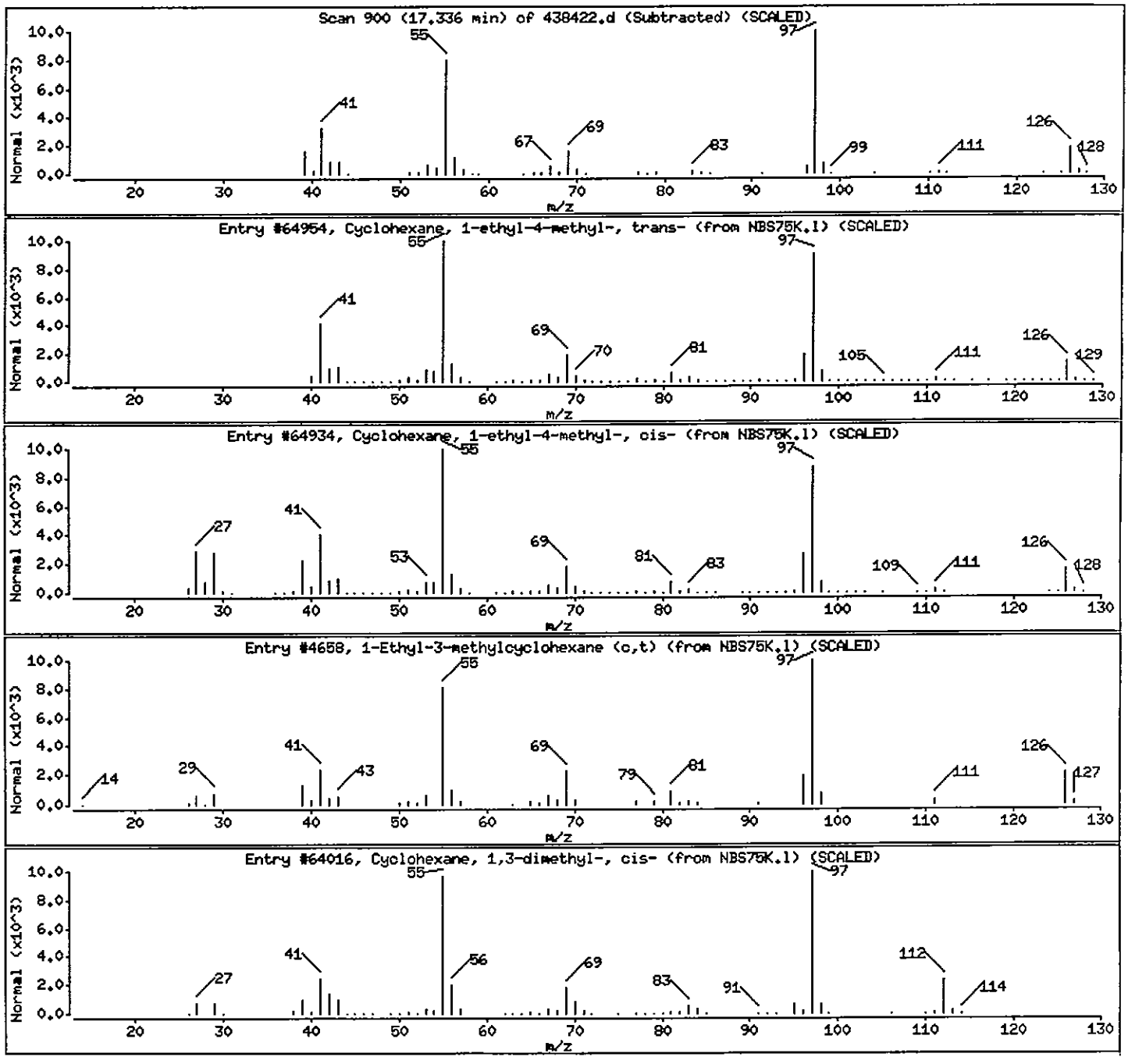
Client ID: CAEA11130006 Instrument: X.i

Sample Info: 438422;029ACAEA11130006;80694;1121H7

Purge Volume: 200.0 Operator: GHM

Column phase: DB-1 Column diameter: 0.35

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Cyclohexane, 1-ethyl-4-methyl-, trans-	6236-88-0	NBS75K.l	64954	91	C9H18	126
Cyclohexane, 1-ethyl-4-methyl-, cis-	4926-78-7	NBS75K.l	64934	87	C9H18	126
1-Ethyl-3-methylcyclohexane (c,t)	3728-55-0	NBS75K.l	4658	87	C9H18	126
Cyclohexane, 1,3-dimethyl-, cis-	638-04-0	NBS75K.l	64016	64	C8H16	112



Data File: /chem/X.i/Xsvr.p/xckato15.b/438422.d

Date : 21-NOV-2000 15:49

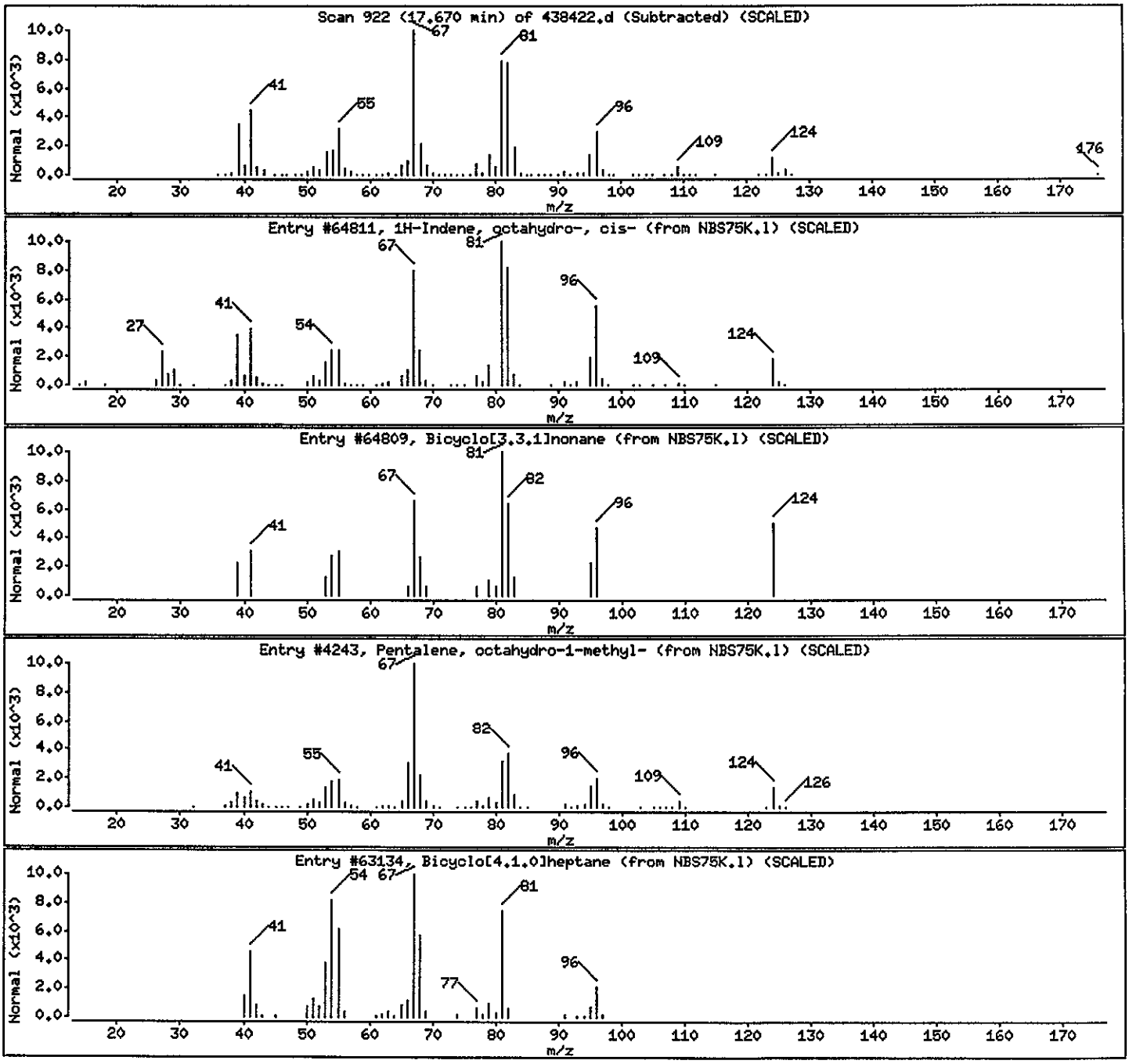
Client ID: CAEA11130006 Instrument: X.i

Sample Info: 438422;029ACAEA11130006;80694;1121H7

Purge Volume: 200.0 Operator: GMH

Column phase: DB-1 Column diameter: 0.35

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
1H-Indene, octahydro-, cis-	4551-51-3	NBS75K.l	64811	64	C9H16	124
Bicyclo[3.3.1]nonane	280-65-9	NBS75K.l	64809	52	C9H16	124
Pentalene, octahydro-1-methyl-	32273-77-1	NBS75K.l	4243	46	C9H16	124
Bicyclo[4.1.0]heptane	286-08-8	NBS75K.l	63134	46	C7H12	96



FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

ACCANA SAMPLE NO.

CAIA11130006

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 80694

Matrix: (soil/water) AIR Lab Sample ID: 438420

Sample wt/vol: 200 (g/mL) ML Lab File ID: 438420

Level: (low/med) LOW Date Received: 11/16/00

% Moisture: not dec. _____ Date Analyzed: 11/21/00

GC Column: DB-1 ID: 0.35 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) PPBV	Q
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl Chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-09-2	Methylene Chloride	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
56-23-5	Carbon Tetrachloride	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-88-3	Toluene	1.2	
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
1330-20-7	Xylene (m,p)	0.85	
100-42-5	Styrene	0.50	U
95-47-6	Xylene (o)	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

ACCANA SAMPLE NO.

CAIA11130006

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 80694

Matrix: (soil/water) AIR Lab Sample ID: 438420

Sample wt/vol: 200 (g/mL) ML Lab File ID: 438420

Level: (low/med) LOW Date Received: 11/16/00

% Moisture: not dec. _____ Date Analyzed: 11/21/00

GC Column: DB-1 ID: 0.35 (mm) Dilution Factor: 1.0

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

Number TICs found: 10

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

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		UNKNOWN ALIPHATIC COMPOUND	6.36	11	J
2.		UNKNOWN ALIPHATIC COMPOUND	16.99	3.1	J
3.		UNKNOWN	17.37	3.6	J
4.		UNKNOWN ALIPHATIC COMPOUND	17.85	4.3	J
5.		UNKNOWN ALIPHATIC COMPOUND	18.08	3.6	J
6.		UNKNOWN C3-ALKYLBENZENE	18.34	5.2	J
7.		UNKNOWN ALIPHATIC COMPOUND	18.47	6.9	J
8.		UNKNOWN ALIPHATIC COMPOUND	18.69	7.1	J
9.		UNKNOWN ALIPHATIC COMPOUND	19.28	4.6	J
10.		UNKNOWN ALKYLCYCLOHEXANE	20.20	4.2	J
11.					
12.					
13.					
14.					
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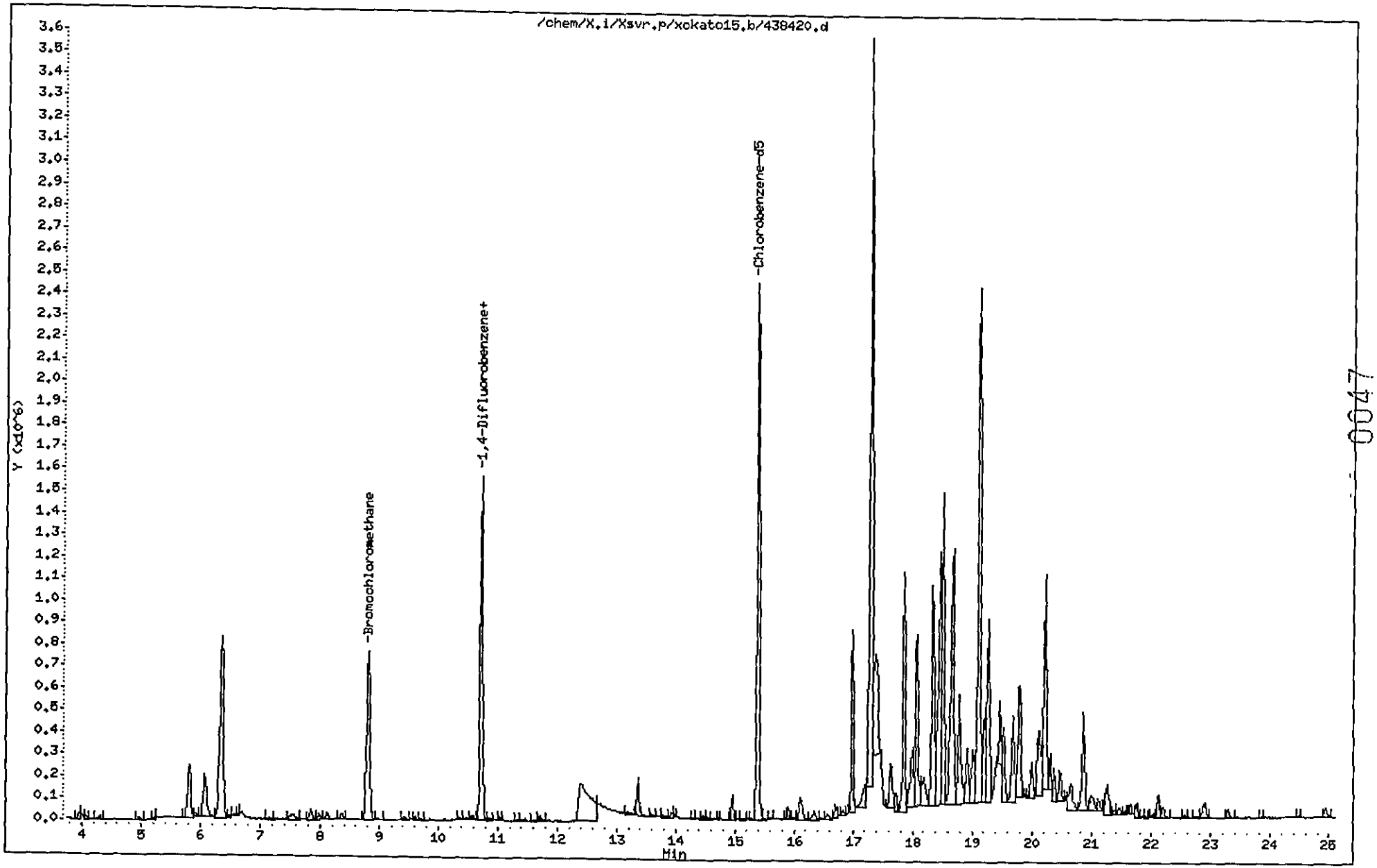
27.					
28.					
29.					
30.					

Data File: /chem/X.i/Xsvr.p/xckato15.b/438420.d
Date : 21-NOV-2000 14:39
Client ID: CAIA11130006
Sample Info: 438420;029ACAIA11130006;80694;1121H7
Purge Volume: 200.0
Column phase: DB-1

Instrument: X.i

Operator: GMH
Column diameter: 0.35



STL Burlington

AIR TOXICS QUANTITATION REPORT

Data file : /chem/X.i/Xsvr.p/xckato15.b/438420.d
Lab Smp Id: 438420 Client Smp ID: CAIA11130006
Inj Date : 21-NOV-2000 14:39
Operator : GMM Inst ID: X.i
Smp Info : 438420;029ACAIA11130006;80694;1121H7
Misc Info :
Comment :
Method : /chem/X.i/Xsvr.p/xckato15.b/ato15.m
Meth Date : 28-Nov-2000 14:00 mim Quant Type: ISTD
Cal Date : 20-NOV-2000 10:11 Cal File: ck040.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ACCANA2.sub
Target Version: 3.50
Processing Host: chemsvr4

Concentration Formula: Amt * DF * X* Uf/Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
X	200.00000	method volume factor
Uf	1.00000	ng unit correction factor
Vo	200.00000	Sample Volume purged (mL)

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
	2 Chloromethane	50	Compound Not Detected.						
	4 Vinyl Chloride	62	Compound Not Detected.						
	6 Bromomethane	94	Compound Not Detected.						
	7 Chloroethane	64	Compound Not Detected.						
	10 Trichlorofluoromethane	101	Compound Not Detected.						
	13 Methylene Chloride	49	Compound Not Detected.						
	18 1,1-Dichloroethane	63	Compound Not Detected.						
	21 cis-1,2-Dichloroethene	61	Compound Not Detected.						
*	22 Bromochloromethane	128	8.823	8.473	(1.000)	366074	10.0000		(Q)
	24 Chloroform	83	Compound Not Detected.						
	26 1,2-Dichloroethane	62	Compound Not Detected.						
	27 1,1,1-Trichloroethane	97	Compound Not Detected.						
	28 Benzene	78	Compound Not Detected.						
	29 Carbon Tetrachloride	117	Compound Not Detected.						

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	FINAL (ppbv)
* 31 1,4-Difluorobenzene	114	10.720	10.461	(1.000)	1710589	10.0000	
32 1,2-Dichloropropane	63	Compound Not Detected.					
34 Trichloroethene	95	Compound Not Detected.					
38 cis-1,3-Dichloropropene	75	Compound Not Detected.					
40 trans-1,3-Dichloropropene	75	Compound Not Detected.					
41 1,1,2-Trichloroethane	83	Compound Not Detected.					
42 Toluene	92	13.361	13.208	(0.869)	86442	1.19320	1.2
46 Tetrachloroethene	166	Compound Not Detected.					
* 47 Chlorobenzene-d5	117	15.379	15.272	(1.000)	1823683	10.0000	
48 Chlorobenzene	112	Compound Not Detected.					
49 Ethylbenzene	91	Compound Not Detected.					
50 Xylene (m,p)	106	16.107	16.015	(1.047)	48425	0.84892	0.85
52 Styrene	104	Compound Not Detected.					
53 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					
54 Xylene (o)	106	Compound Not Detected.					
59 1,3-Dichlorobenzene	146	Compound Not Detected.					
60 1,4-Dichlorobenzene	146	Compound Not Detected.					
61 1,2-Dichlorobenzene	146	Compound Not Detected.					

QC Flag Legend

Q - Qualifier signal failed the ratio test.

STL Burlington

AIR TOXICS QUANTITATION REPORT

Data file : /chem/X.i/Xsvr.p/xckato15.b/438420.d
Lab Smp Id: 438420 Client Smp ID: CAIA11130006
Inj Date : 21-NOV-2000 14:39
Operator : GMM Inst ID: X.i
Smp Info : 438420;029ACAIA11130006;80694;1121H7
Misc Info :
Comment :
Method : /chem/X.i/Xsvr.p/xckato15.b/ato15.m
Meth Date : 28-Nov-2000 13:48 mim Quant Type: ISTD
Cal Date : 20-NOV-2000 10:11 Cal File: ck040.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ACCANA.sub
Target Version: 3.50
Processing Host: chemsvr4

Concentration Formula: Amt * DF * X* Uf/Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
X	200.00000	method volume factor
Uf	1.00000	ng unit correction factor
Vo	200.00000	Sample Volume purged (mL)

Cpnd Variable Local Compound Variable

ISTD	RT	AREA	AMOUNT
* 22 Bromochloromethane	8.823	2961324	10.000
* 47 Chlorobenzene-d5	15.379	6334789	10.000

	CONCENTRATIONS			QUANT			
RT	AREA	ON-COL(ppbv)	FINAL(ppbv)	QUAL	LIBRARY	LIB ENTRY	CPND #
Unknown aliphatic compound				CAS #:			
6.365	3326533	11.2332607	11	0		0	22(L)
Unknown aliphatic compound				CAS #:			
16.987	1969615	3.10920319	3.1	0		0	47(L)

		CONCENTRATIONS			QUANT		
RT	AREA	ON-COL(ppbv)	FINAL(ppbv)	QUAL	LIBRARY	LIB ENTRY	CPND #
Unknown				CAS #:			
17.367	2314103	3.65300651	3.6	0		0	47
Unknown aliphatic compound				CAS #:			
17.852	2717431	4.28969393	4.3	0		0	47
Unknown aliphatic compound				CAS #:			
18.080	2280131	3.59937914	3.6	0		0	47
Unknown C3-alkylbenzene				CAS #:			
18.338	3319733	5.24047883	5.2	0		0	47
Unknown aliphatic compound				CAS #:			
18.475	4365100	6.89067871	6.9	0		0	47
Unknown aliphatic compound				CAS #:			
18.687	4475184	7.06445560	7.1	0		0	47
Unknown aliphatic compound				CAS #:			
19.279	2916206	4.60347740	4.6	0		0	47
Unknown alkylcyclohexane				CAS #:			
20.205	2674831	4.22244630	4.2	0		0	47

QC Flag Legend

L - Operator selected an alternate library search match.

Data File: /chem/X.i/Xsvr.p/xckato15.b/438420.d

Date : 21-NOV-2000 14:39

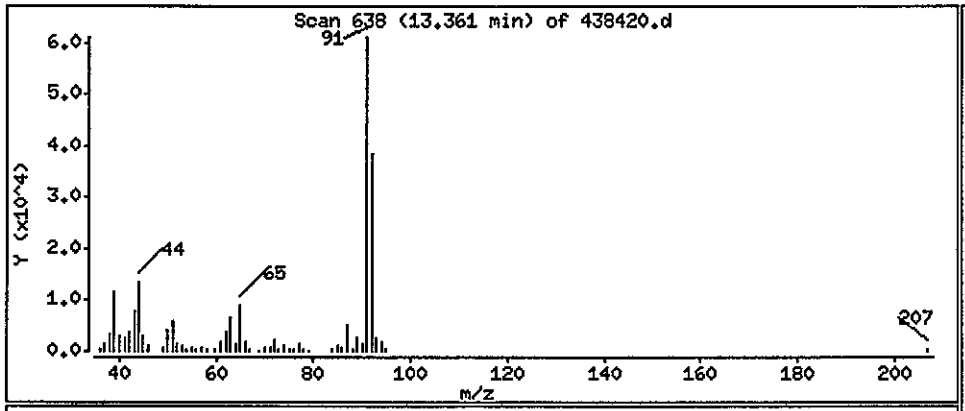
Client ID: CAIA11130006 Instrument: X.i

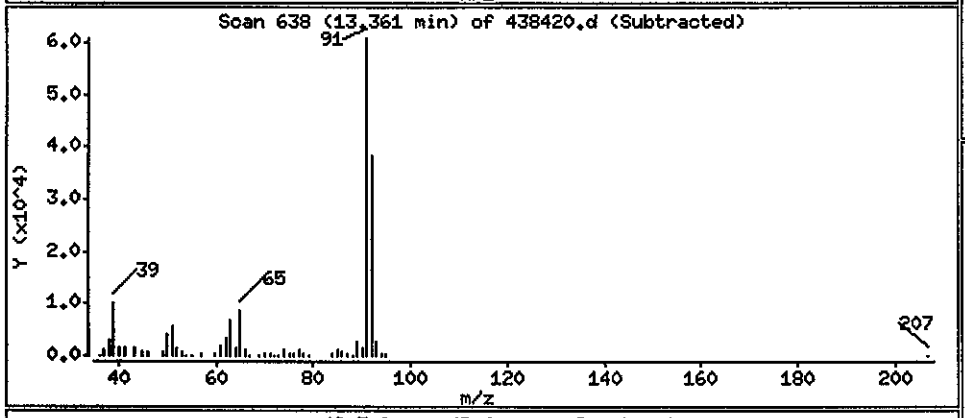
Sample Info: 438420;029ACAIA11130006;80694;1121H7

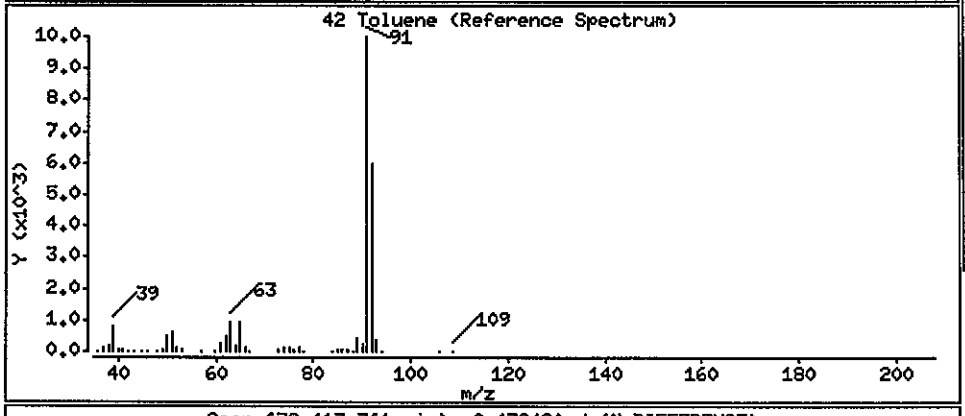
Purge Volume: 200.0 Operator: GMH

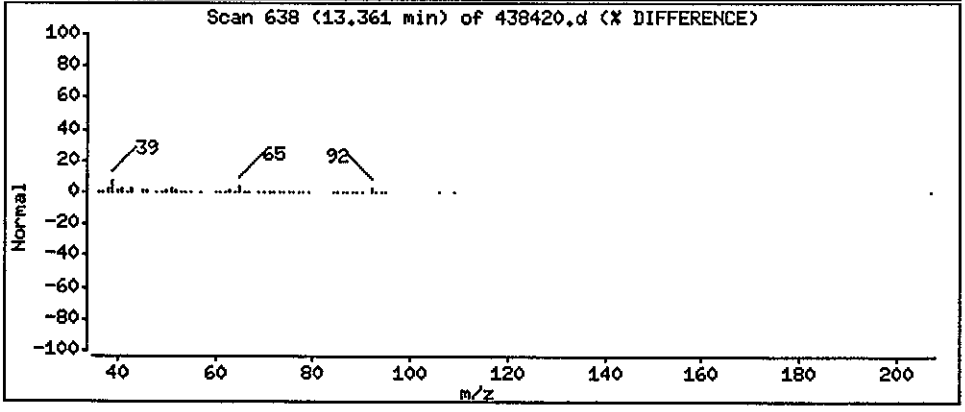
Column phase: DB-1 Column diameter: 0.35

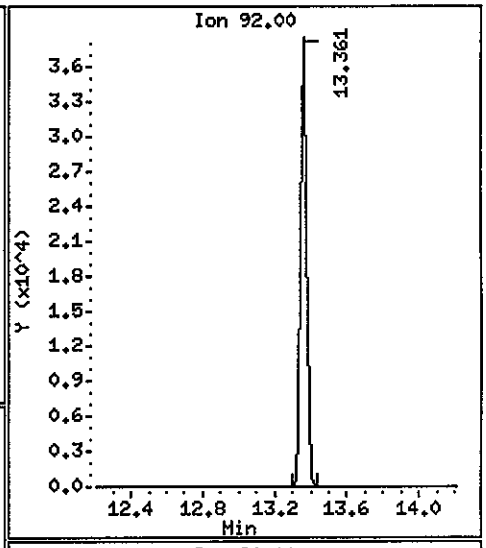
42 Toluene Concentration: 1.2 ppbv

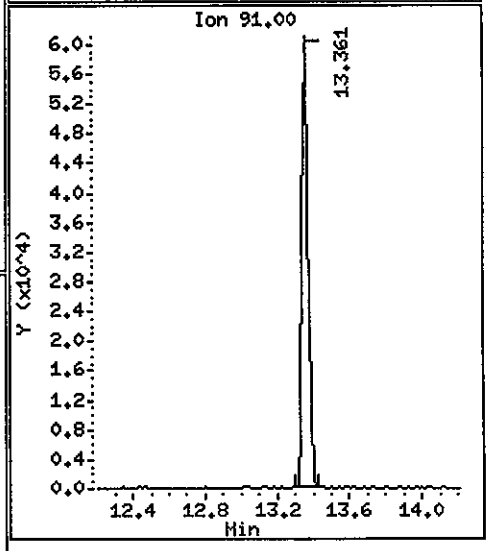












Data File: /chem/X.i/Xsvr.p/xckato15.b/438420.d

Date : 21-NOV-2000 14:39

Client ID: CAIA11130006

Instrument: X.i

Sample Info: 438420;029ACAIA11130006;80694;1121H7

Purge Volume: 200.0

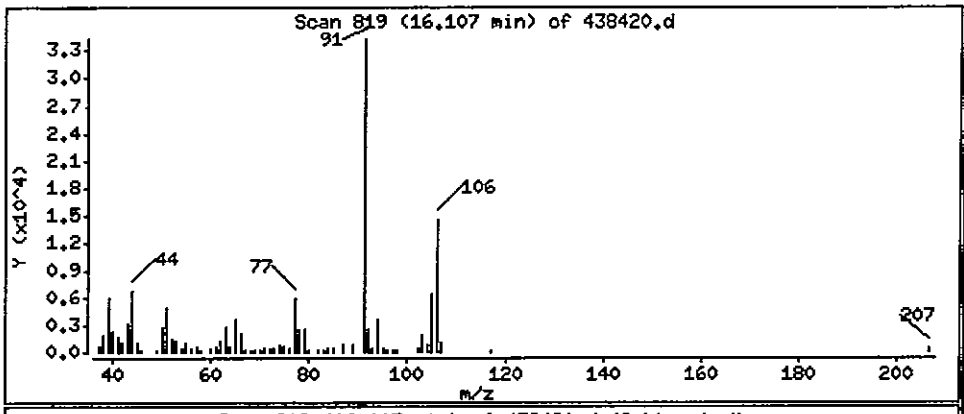
Operator: GHH

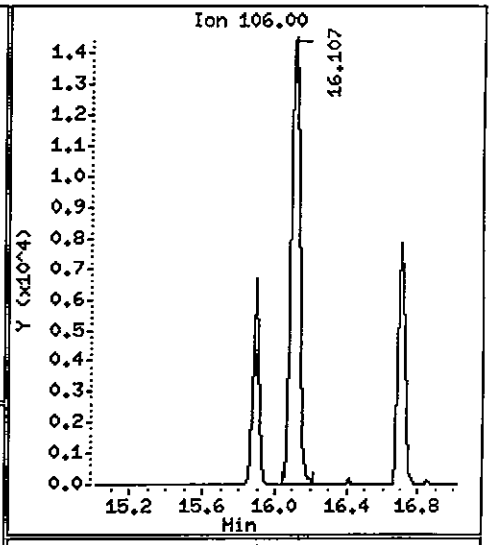
Column phase: DB-1

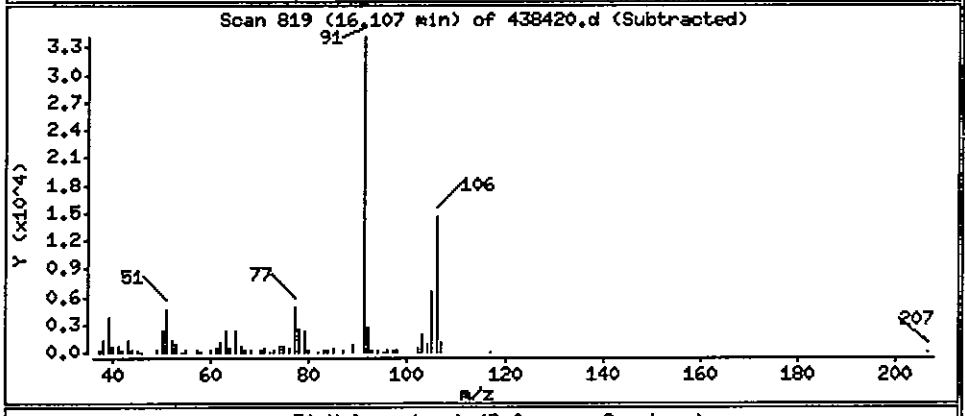
Column diameter: 0.35

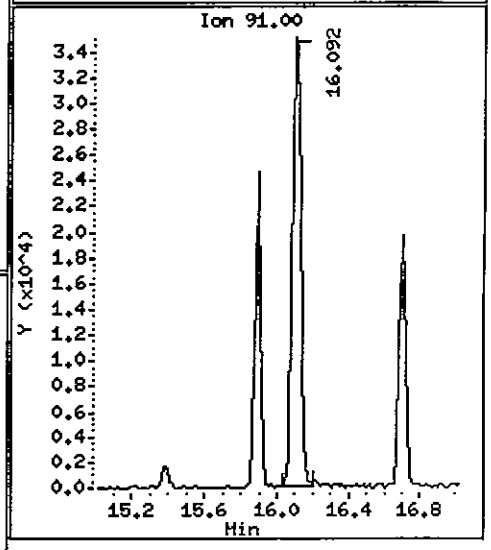
50 Xylene (m,p)

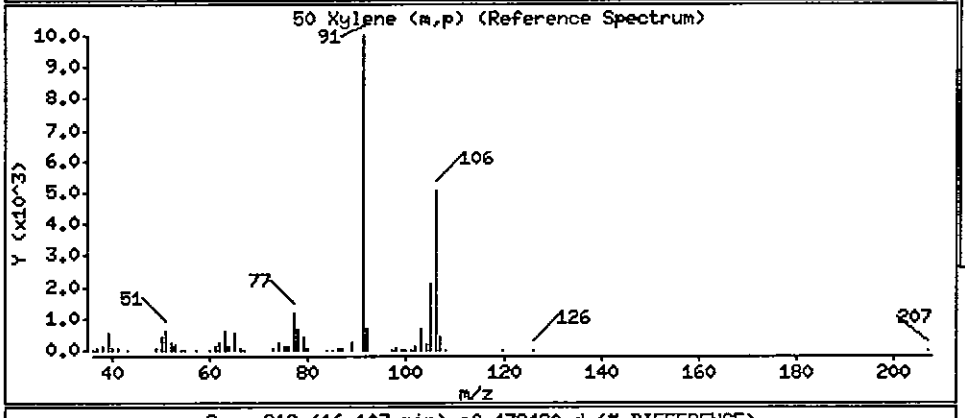
Concentration: 0.85 ppbv

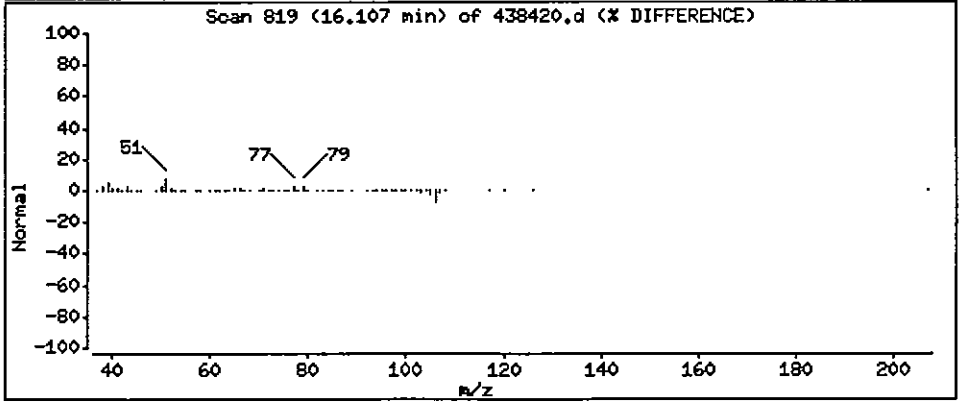












Data File: /chem/X.i/Xsvr.p/xckato15.b/438420.d

Date : 21-NOV-2000 14:39

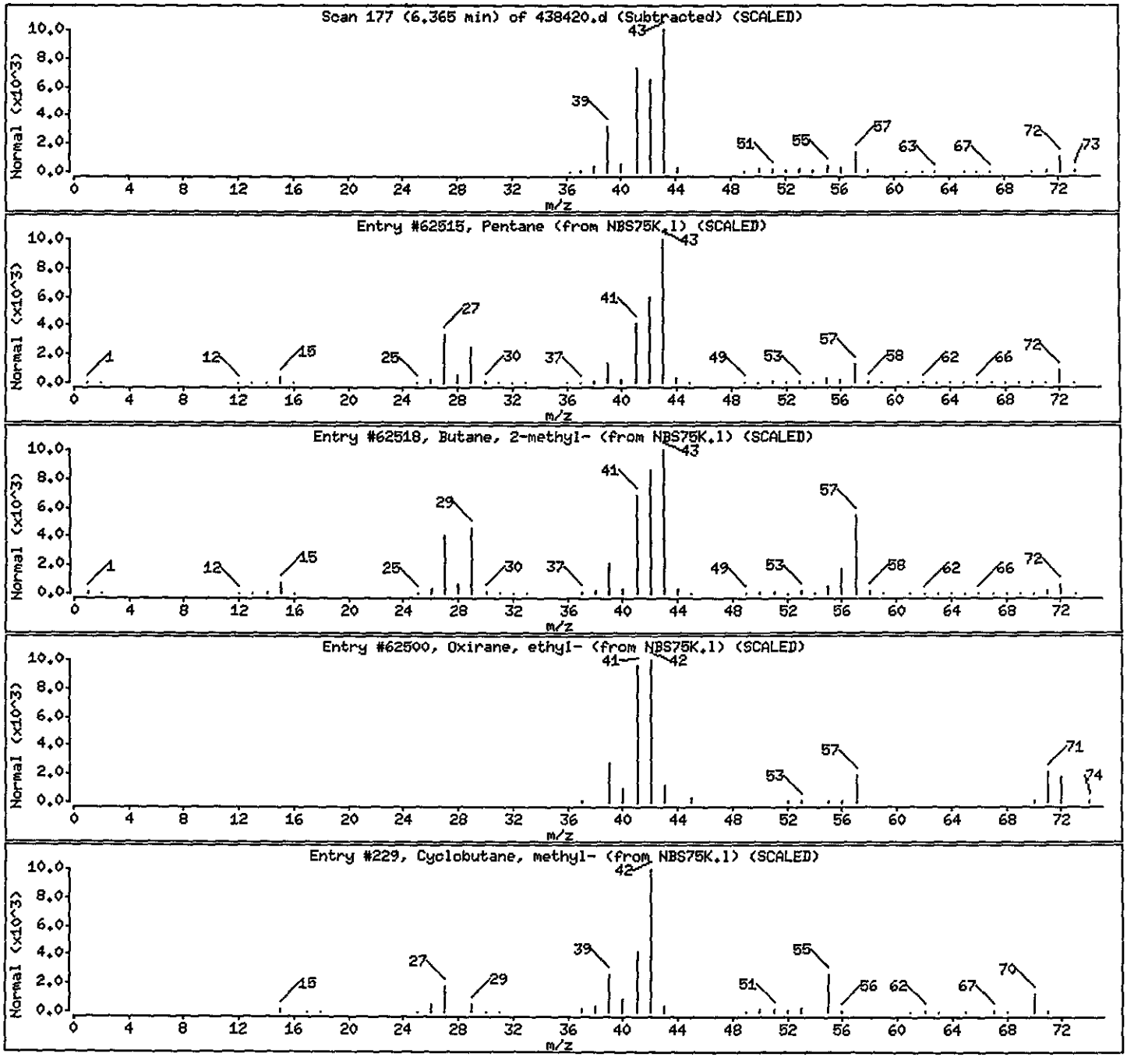
Client ID: CAIA11130006 Instrument: X.i

Sample Info: 438420;029ACAIA11130006;80694;1121H7

Purge Volume: 200.0 Operator: CMM

Column phase: DB-1 Column diameter: 0.35

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown aliphatic compound						
Pentane	109-66-0	NBS75K.1	62515	72	C5H12	72
Butane, 2-methyl-	78-78-4	NBS75K.1	62518	64	C5H12	72
Oxirane, ethyl-	106-88-7	NBS75K.1	62500	53	C4H8O	72
Cyclobutane, methyl-	598-61-8	NBS75K.1	229	25	C5H10	70



Data File: /chem/X.i/Xsvr.p/xckato15.b/438420.d

Date : 21-NOV-2000 14:39

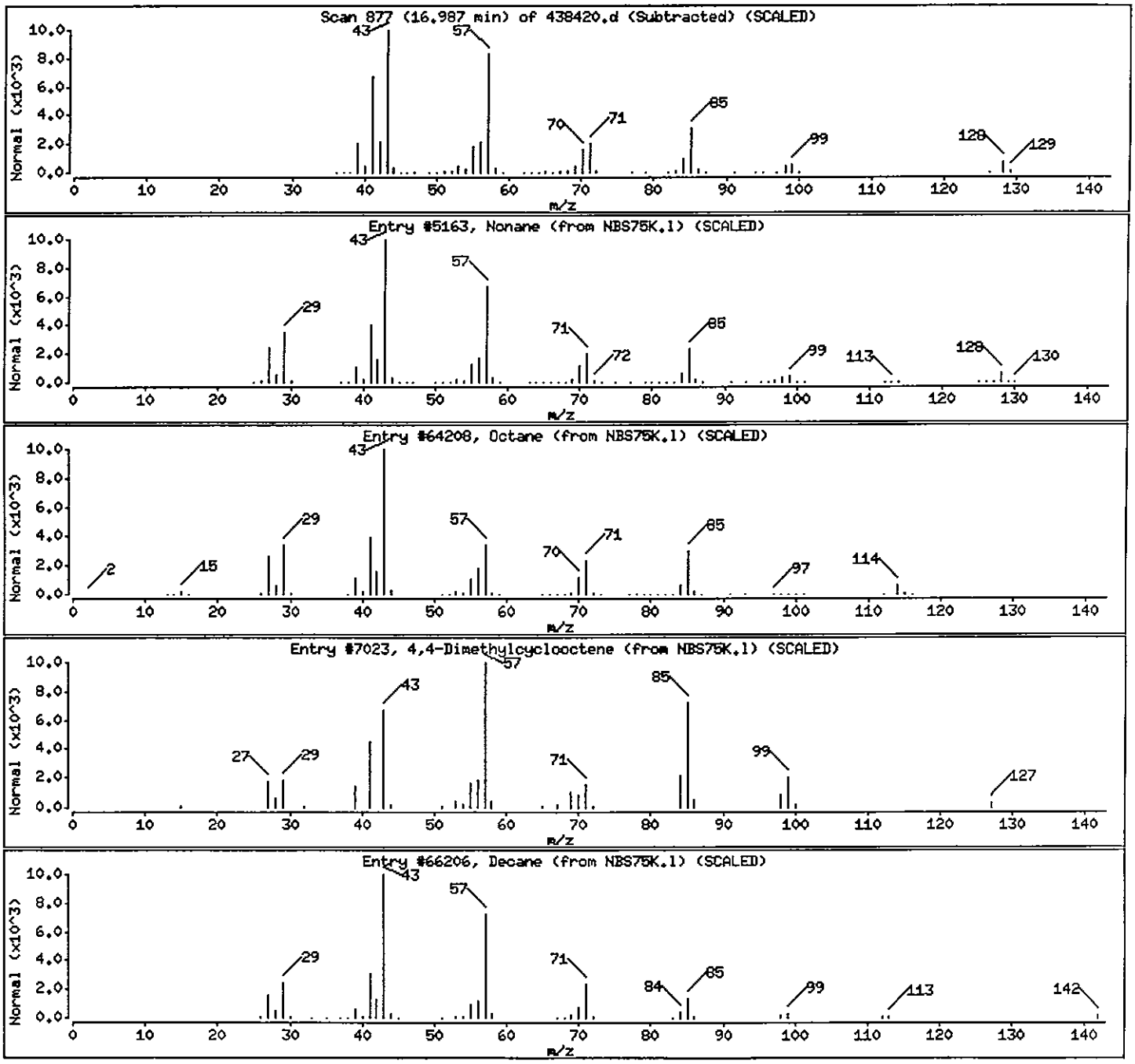
Client ID: CAIA11130006 Instrument: X.i

Sample Info: 438420;029ACAIA11130006;80694;1121H7

Purge Volume: 200.0 Operator: GHH

Column phase: DB-1 Column diameter: 0.35

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown aliphatic compound						
Nonane	111-84-2	NBS75K.l	5163	95	C9H20	128
Octane	111-65-9	NBS75K.l	64208	53	C8H18	114
4,4-Dimethylcyclooctene	0-00-0	NBS75K.l	7023	50	C10H18	138
Decane	124-18-5	NBS75K.l	66206	50	C10H22	142



Data File: /chem/X.i/Xsvr.p/xckato15.b/438420.d

Date : 21-NOV-2000 14:39

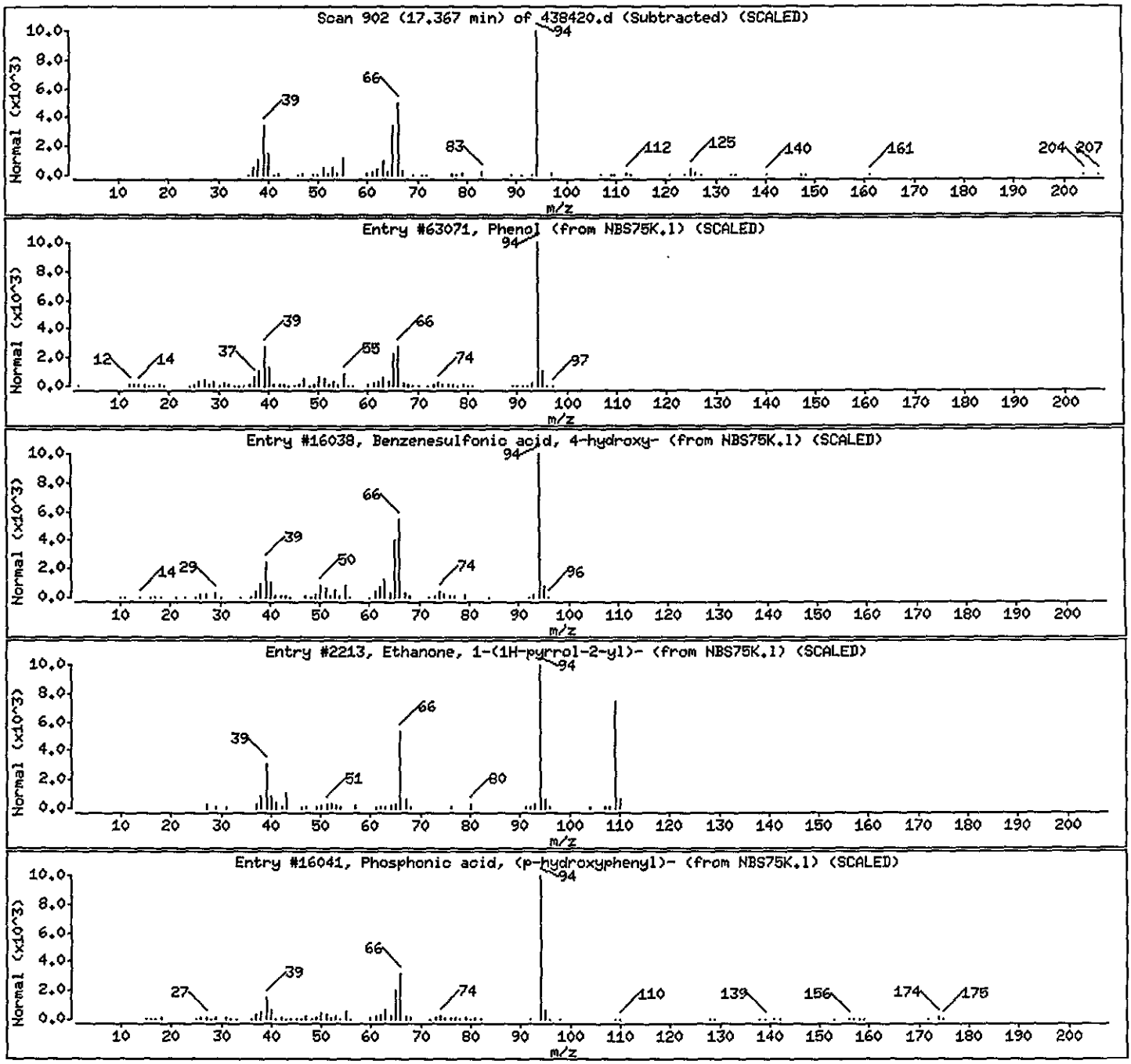
Client ID: CAIA11130006 Instrument: X.i

Sample Info: 438420;029ACAIA11130006;80694;1121H7

Purge Volume: 200.0 Operator: GHM

Column phase: DB-1 Column diameter: 0.35

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Phenol	108-95-2	NBS75K.l	63071	91	C6H6O	94
Benzenesulfonic acid, 4-hydroxy-	98-67-9	NBS75K.l	16038	64	C6H6O4S	174
Ethanone, 1-(1H-pyrrol-2-yl)-	1072-83-9	NBS75K.l	2213	56	C6H7NO	109
Phosphonic acid, (p-hydroxyphenyl)-	33795-18-5	NBS75K.l	16041	42	C6H7O4P	174



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Date : 21-NOV-2000 14:39

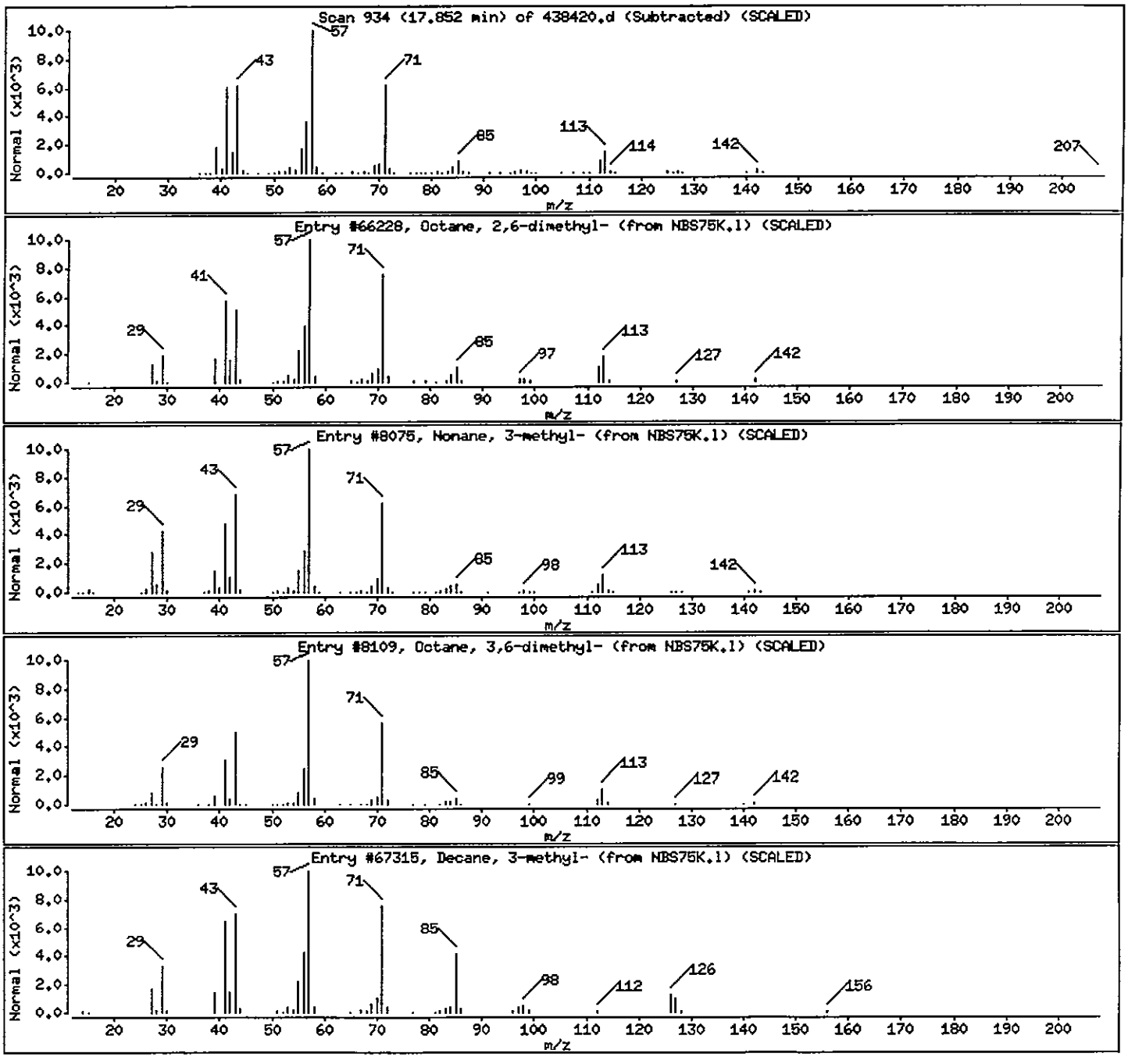
Client ID: CAIA11130006 Instrument: X.i

Sample Info: 438420;029ACAIA11130006;80694;1121H7

Purge Volume: 200.0 Operator: GHH

Column phase: DB-1 Column diameter: 0.35

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown aliphatic compound						
Octane, 2,6-dimethyl-	2051-30-1	NBS75K.l	66228	93	C10H22	142
Nonane, 3-methyl-	5911-04-6	NBS75K.l	8075	91	C10H22	142
Octane, 3,6-dimethyl-	15869-94-0	NBS75K.l	8109	87	C10H22	142
Decane, 3-methyl-	13151-34-3	NBS75K.l	67315	64	C11H24	156



Data File: /chem/X.i/Xsvr.p/xckato15.b/438420.d

Date : 21-NOV-2000 14:39

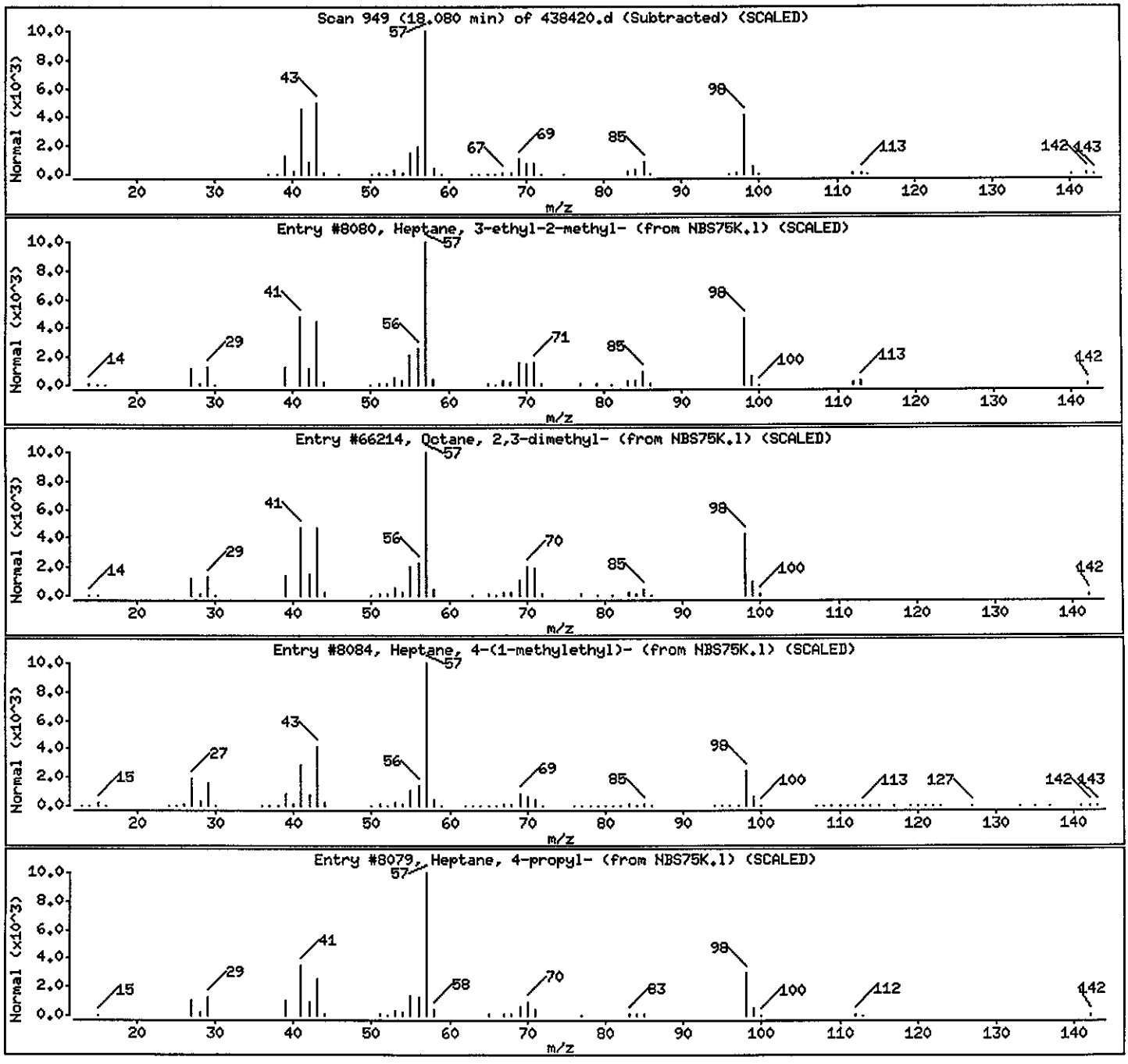
Client ID: CAIA11130006 Instrument: X.i

Sample Info: 438420;029ACAIA11130006;80694;1121H7

Purge Volume: 200.0 Operator: GHM

Column phase: DB-1 Column diameter: 0.35

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown aliphatic compound						
Heptane, 3-ethyl-2-methyl-	14676-29-0	NBS75K.l	8080	90	C10H22	142
Octane, 2,3-dimethyl-	7146-60-3	NBS75K.l	66214	56	C10H22	142
Heptane, 4-(1-methylethyl)-	52896-87-4	NBS75K.l	8084	52	C10H22	142
Heptane, 4-propyl-	3178-29-8	NBS75K.l	8079	49	C10H22	142



Data File: /chem/X.i/Xsvr.p/xckato15.b/438420.d

Date : 21-NOV-2000 14:39

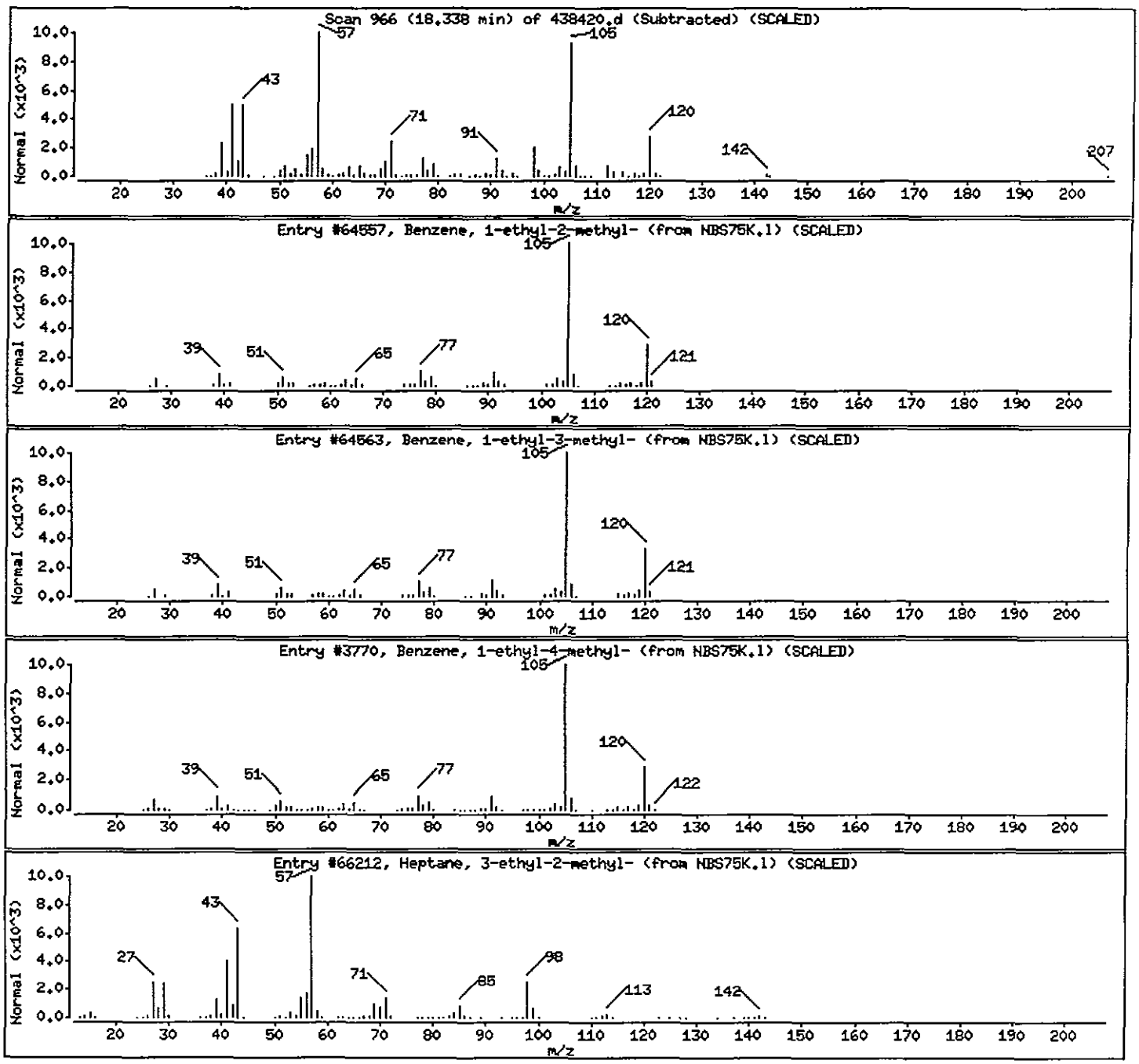
Client ID: CAIA11130006 Instrument: X.i

Sample Info: 438420:029ACAIA11130006:80694:1121H7

Purge Volume: 200.0 Operator: GHH

Column phase: DB-1 Column diameter: 0.35

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown C3-alkylbenzene						
Benzene, 1-ethyl-2-methyl-	611-14-3	NBS75K.l	64557	74	C9H12	120
Benzene, 1-ethyl-3-methyl-	620-14-4	NBS75K.l	64563	74	C9H12	120
Benzene, 1-ethyl-4-methyl-	622-96-8	NBS75K.l	3770	70	C9H12	120
Heptane, 3-ethyl-2-methyl-	14676-29-0	NBS75K.l	66212	45	C10H22	142



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Date : 21-NOV-2000 14:39

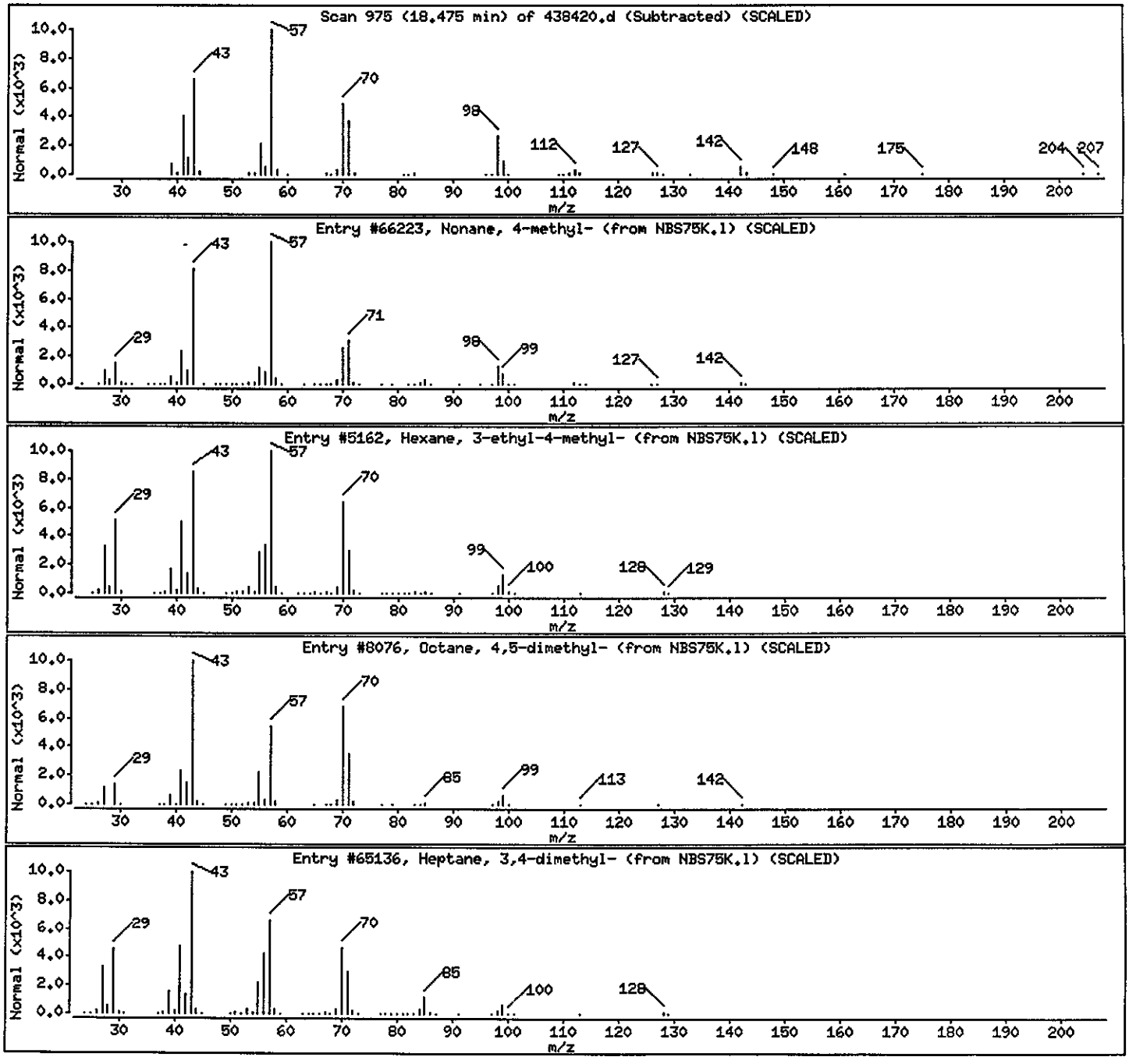
Client ID: CAIA11130006 Instrument: X.i

Sample Info: 438420;029ACAIA11130006;80694;1121H7

Purge Volume: 200.0 Operator: GMM

Column phase: DB-1 Column diameter: 0.35

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown aliphatic compound						
Nonane, 4-methyl-	17301-94-9	NBS75K.l	66223	53	C10H22	142
Hexane, 3-ethyl-4-methyl-	3074-77-9	NBS75K.l	5162	50	C9H20	128
Octane, 4,5-dimethyl-	15869-96-2	NBS75K.l	8076	47	C10H22	142
Heptane, 3,4-dimethyl-	922-28-1	NBS75K.l	65136	40	C9H20	128



Data File: /chem/X.i/Xsvr.p/xckato15.b/438420.d

Date : 21-NOV-2000 14:39

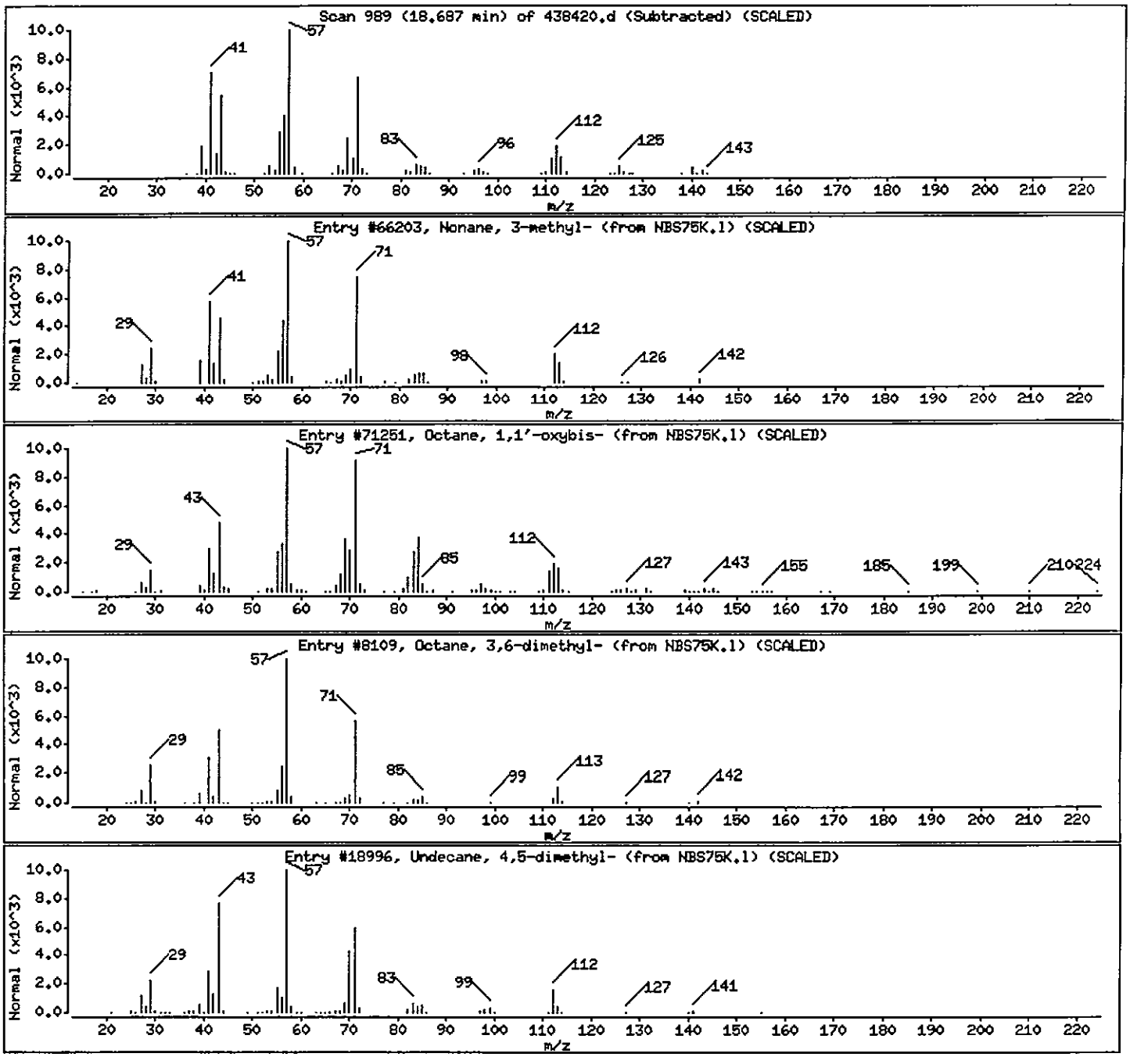
Client ID: CAIA11130006 Instrument: X.i

Sample Info: 438420;029ACAIA11130006;80694;1121H7

Purge Volume: 200.0 Operator: GHH

Column phase: DB-1 Column diameter: 0.35

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown aliphatic compound						
Nonane, 3-methyl-	5911-04-6	NBS75K.l	66203	91	C10H22	142
Octane, 1,1'-oxybis-	629-82-3	NBS75K.l	71251	56	C16H34O	242
Octane, 3,6-dimethyl-	15869-94-0	NBS75K.l	8109	47	C10H22	142
Undecane, 4,5-dimethyl-	17312-79-7	NBS75K.l	18996	47	C13H28	184



Data File: /chem/X.i/Xsvr.p/xckato15.b/438420.d

Date : 21-NOV-2000 14:39

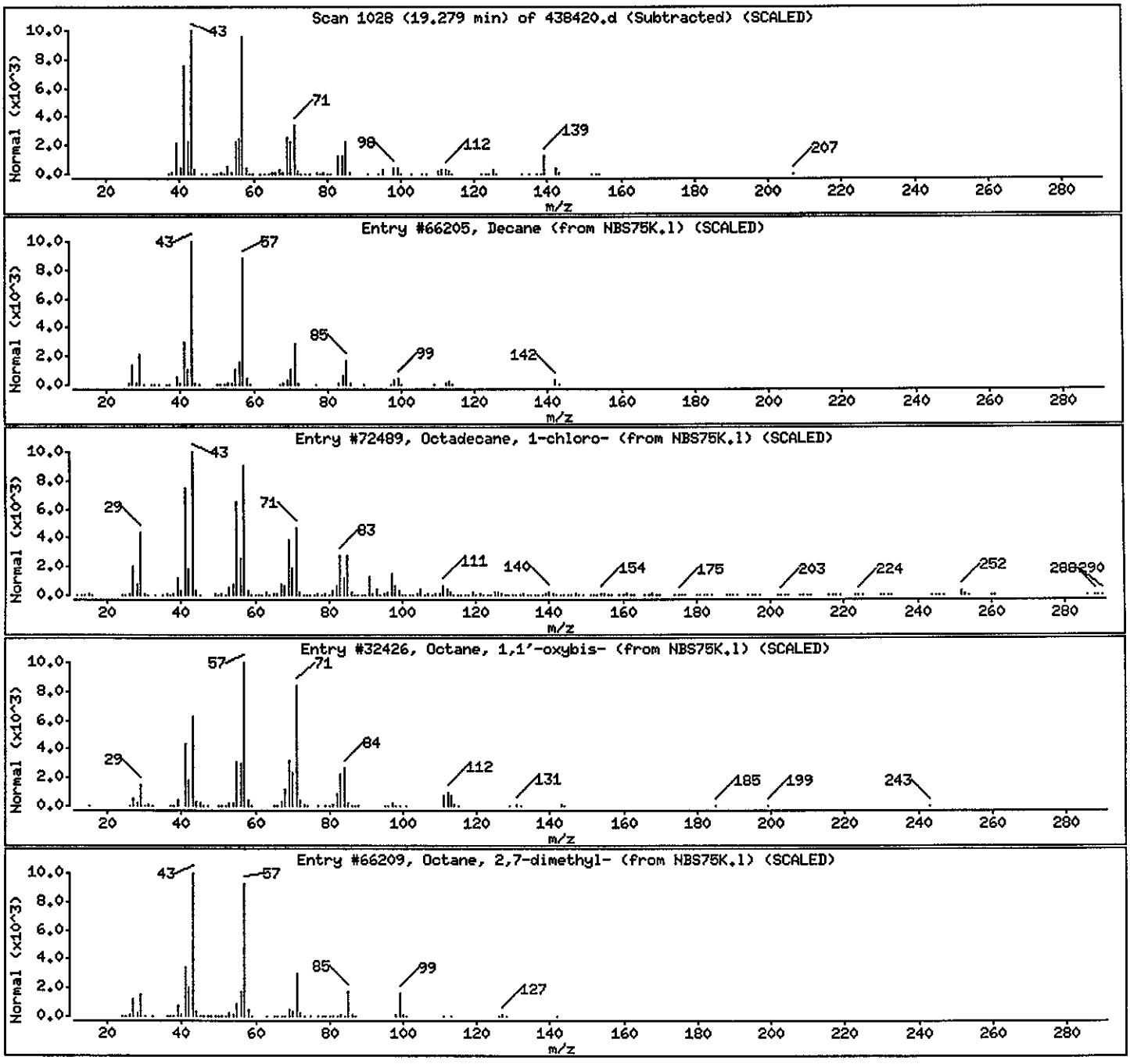
Client ID: CAIA11130006 Instrument: X.i

Sample Info: 438420;029ACAIA11130006;80694;1121H7

Purge Volume: 200.0 Operator: GMM

Column phase: DB-1 Column diameter: 0.35

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown aliphatic compound						
Decane	124-18-5	NBS75K.l	66205	70	C10H22	142
Octadecane, 1-chloro-	3386-33-2	NBS75K.l	72489	64	C18H37Cl	288
Octane, 1,1'-oxybis-	629-82-3	NBS75K.l	32426	53	C16H34O	242
Octane, 2,7-dimethyl-	1072-16-8	NBS75K.l	66209	50	C10H22	142



Data File: /chem/X.i/Xsvr.p/xckato15.b/438420.d

Date : 21-NOV-2000 14:39

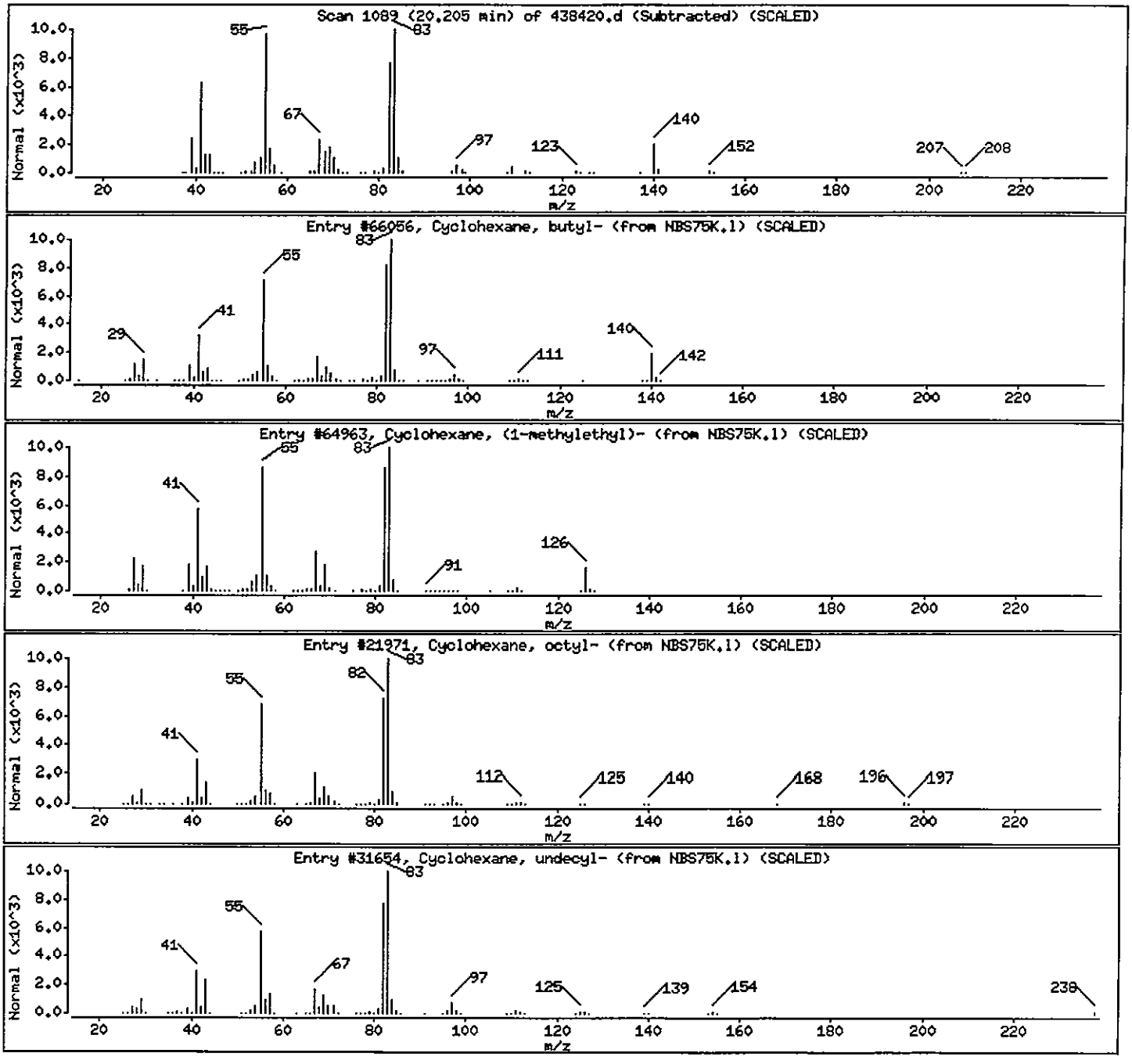
Client ID: CAIA11130006 Instrument: X.i

Sample Info: 438420;029ACAIA11130006;80694;1121H7

Purge Volume: 200.0 Operator: GHH

Column phase: DB-1 Column diameter: 0.35

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown alkylcyclohexane						
Cyclohexane, butyl-	1678-93-9	NBS75K.l	66056	94	C10H20	140
Cyclohexane, (1-methylethyl)-	696-29-7	NBS75K.l	64963	80	C9H18	126
Cyclohexane, octyl-	1795-15-9	NBS75K.l	21971	78	C14H28	196
Cyclohexane, undecyl-	54105-66-7	NBS75K.l	31654	78	C17H34	238



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METHOD TO-14A
VOLATILE ORGANIC ANALYSIS

STANDARDS

6A

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 80694

Instrument ID: X Calibration Date(s): 11/20/00 11/20/00

Heated Purge: (Y/N) N Calibration Time(s): 0752 1011

GC Column: DB-1 ID: 0.35 (mm)

LAB FILE ID: RRF0.5=CK0005 RRF5 =CK005
RRF10 =CK010 RRF20 =CK020 RRF40 =CK040

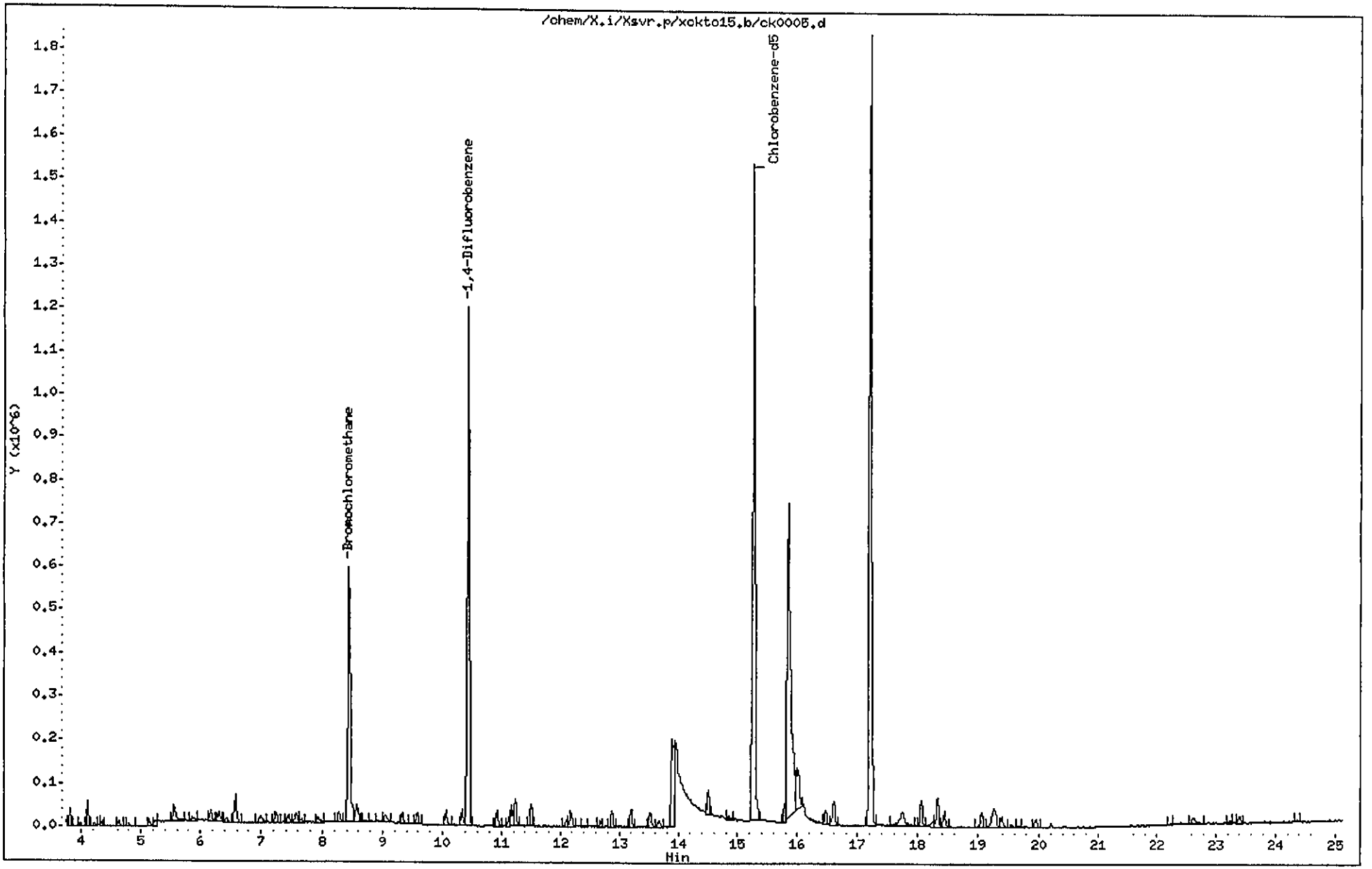
	COMPOUND	RRF0.5	RRF5	RRF10	RRF20	RRF40	$\overline{RRF}$	% RSD
	Chloromethane	0.889	0.809	0.720	0.673	0.724	0.763	11.3
	Vinyl Chloride	1.005	0.989	0.840	0.758	0.715	0.861	15.3
	Bromomethane	1.105	0.911	0.785	0.772	0.647	0.844	20.6
	Chloroethane	0.539	0.451	0.417	0.378	0.362	0.429	16.4
	Trichlorofluoromethane	3.723	3.808	3.192	2.867	2.787	3.275	14.5
	Methylene Chloride	1.634	1.404	1.207	1.092	1.072	1.282	18.5
*	1,1-Dichloroethane	2.314	2.286	1.885	1.757	1.726	1.994	14.4*
	cis-1,2-Dichloroethene	1.863	1.994	1.622	1.423	1.387	1.658	16.1
	Chloroform	2.722	2.853	2.379	2.176	2.142	2.454	13.1
	1,1,1-Trichloroethane	0.412	0.434	0.428	0.393	0.409	0.415	4.0
	Carbon Tetrachloride	0.062	0.077	0.075	0.073	0.060	0.069	11.6
	Benzene	0.624	0.618	0.572	0.503	0.516	0.567	9.9
	1,2-Dichloroethane	0.484	0.477	0.440	0.368	0.366	0.427	13.4
	Trichloroethene	0.334	0.385	0.318	0.271	0.259	0.313	16.2
	1,2-Dichloropropane	0.226	0.232	0.202	0.187	0.187	0.207	10.2
	cis-1,3-Dichloropropene	0.177	0.204	0.207	0.215	0.250	0.211	12.5
	Toluene	0.423	0.463	0.404	0.353	0.343	0.397	12.6
	trans-1,3-Dichloropropene	0.181	0.155	0.163	0.173	0.214	0.177	12.8
	1,1,2-Trichloroethane	0.211	0.236	0.194	0.181	0.175	0.199	12.5
	Tetrachloroethene	0.363	0.423	0.364	0.308	0.292	0.350	14.8
*	Chlorobenzene	0.488	0.607	0.552	0.488	0.481	0.523	10.5*
	Ethylbenzene	0.869	1.087	0.973	0.870	0.854	0.931	10.7
	Xylene (m,p)	0.291	0.355	0.332	0.295	0.291	0.313	9.3
	Styrene	0.328	0.449	0.454	0.411	0.421	0.413	12.3
	Xylene (o)	0.247	0.350	0.338	0.281	0.285	0.300	14.2
	1,1,2,2-Tetrachloroethane	0.362	0.488	0.468	0.434	0.450	0.440	10.9
	1,3-Dichlorobenzene	0.303	0.546	0.555	0.532	0.478	0.483	21.7
	1,4-Dichlorobenzene	0.284	0.511	0.530	0.511	0.466	0.460	22.0
	1,2-Dichlorobenzene	0.222	0.502	0.520	0.501	0.445	0.438	28.3

* Compounds with required minimum RRF and maximim %RSD values.
All other compounds must meet a minimim RRF of 0.010.

Data File: /chem/X.i/Xsvr.p/xokto15.b/ck0005.d
Date : 20-NOV-2000 07:52
Client ID: ASTD0005
Sample Info: ASTD0005
Purge Volume: 200.0
Column phase: DB-1

Instrument: X.i

Operator: GMM
Column diameter: 0.35



STL Burlington

AIR TOXICS QUANTITATION REPORT

Data file : /chem/X.i/Xsvr.p/xckto15.b/ck0005.d
Lab Smp Id: ASTD0005 Client Smp ID: ASTD0005
Inj Date : 20-NOV-2000 07:52
Operator : GMM Inst ID: X.i
Smp Info : ASTD0005
Misc Info :
Comment :
Method : /chem/X.i/Xsvr.p/xckto15.b/ato15.m
Meth Date : 28-Nov-2000 12:06 bes Quant Type: ISTD
Cal Date : 20-NOV-2000 07:52 Cal File: ck0005.d
Als bottle: 2 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50
Processing Host: chemsvr4

Concentration Formula: Amt * DF * X* Uf/Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
X	200.00000	method volume factor
Uf	1.00000	ng unit correction factor
Vo	200.00000	Sample Volume purged (mL)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	AMOUNTS ON-COL (ppbv)
1 Dichlorodifluoromethane	85	3.814	3.828	(0.452)	42232	0.50000	0.50
2 Chloromethane	50	3.987	3.986	(0.472)	8550	0.50000	0.50
3 Dichlorotetrafluoroethane	85	4.102	4.116	(0.486)	36257	0.50000	0.50
4 Vinyl Chloride	62	4.203	4.217	(0.498)	9667	0.50000	0.50
5 1,3-Butadiene	54	4.347	4.361	(0.515)	6894	0.50000	0.50
6 Bromomethane	94	4.621	4.649	(0.547)	10627	0.50000	0.50
7 Chloroethane	64	4.794	4.822	(0.568)	5184	0.50000	0.50
8 Bromoethene	106	5.140	5.168	(0.609)	10995	0.50000	0.50
9 Acetone	43	5.575	5.529	(0.660)	29444	0.50000	0.50
10 Trichlorofluoromethane	101	5.545	5.574	(0.657)	35801	0.50000	0.50
11 Isopropyl Alcohol	45	5.863	5.832	(0.694)	18373	0.50000	0.50
12 1,1-Dichloroethene	96	6.182	6.197	(0.732)	9882	0.50000	0.50
13 Methylene Chloride	49	6.303	6.333	(0.747)	15710	0.50000	0.50
14 3-Chloropropene	41	6.425	6.455	(0.761)	6998	0.50000	0.50

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	ON-COL (ppbv)
15	Carbon Disulfide	76	6.577	6.591	(0.779)	26004	0.50000	0.50
16	Freon TF	101	6.577	6.606	(0.779)	24314	0.50000	0.50
17	trans-1,2-Dichloroethene	61	7.229	7.259	(0.856)	18338	0.50000	0.50
18	1,1-Dichloroethane	63	7.441	7.471	(0.881)	22248	0.50000	0.50
19	Methyl tert-Butyl Ether	73	7.563	7.578	(0.896)	22251	0.50000	0.50
20	Methyl Ethyl Ketone	43	7.927	7.927	(0.939)	26482	0.50000	0.50
21	cis-1,2-Dichloroethene	61	8.276	8.306	(0.980)	17910	0.50000	0.50
* 22	Bromochloromethane	128	8.443	8.473	(1.000)	192299	10.0000	
23	n-Hexane	57	8.504	8.534	(1.007)	16492	0.50000	0.50
24	Chloroform	83	8.580	8.610	(1.016)	26175	0.50000	0.50
25	Tetrahydrofuran	42	9.050	9.050	(0.866)	13060	0.50000	0.50(M)
26	1,2-Dichloroethane	62	9.338	9.353	(0.894)	25217	0.50000	0.50
27	1,1,1-Trichloroethane	97	9.596	9.611	(0.919)	21444	0.50000	0.50
28	Benzene	78	10.067	10.097	(0.964)	32504	0.50000	0.50
29	Carbon Tetrachloride	117	10.203	10.233	(0.977)	3219	0.50000	0.50
30	Cyclohexane	56	10.340	10.370	(0.990)	17355	0.50000	0.50
* 31	1,4-Difluorobenzene	114	10.446	10.461	(1.000)	1041662	10.0000	
32	1,2-Dichloropropane	63	10.932	10.947	(1.046)	11747	0.50000	0.50(M)
33	Bromodichloromethane	83	11.129	11.144	(1.065)	16760	0.50000	0.50
34	Trichloroethene	95	11.175	11.189	(1.070)	17418	0.50000	0.50
35	1,4-Dioxane	88	11.235	11.220	(1.076)	6477	0.50000	0.50(M)
36	2,2,4-Trimethylpentane	57	11.235	11.250	(1.076)	59522	0.50000	0.50
37	n-Heptane	43	11.509	11.523	(1.102)	24114	0.50000	0.50
38	cis-1,3-Dichloropropene	75	12.100	12.115	(1.158)	9198	0.50000	0.50
39	Methyl Isobutyl Ketone	43	12.176	12.176	(1.166)	35483	0.50000	0.50
40	trans-1,3-Dichloropropene	75	12.677	12.692	(1.214)	9409	0.50000	0.50
41	1,1,2-Trichloroethane	83	12.874	12.889	(0.843)	11234	0.50000	0.50
42	Toluene	92	13.208	13.208	(0.865)	22563	0.50000	0.50
43	Methyl Butyl Ketone	43	13.512	13.511	(0.885)	35960	0.50000	0.50
44	Dibromochloromethane	129	13.679	13.678	(0.896)	11286	0.50000	0.50
45	1,2-Dibromoethane	107	13.967	13.982	(0.915)	40479	0.50000	0.50
46	Tetrachloroethene	166	14.513	14.513	(0.950)	19369	0.50000	0.50
* 47	Chlorobenzene-d5	117	15.272	15.272	(1.000)	1065873	10.0000	
48	Chlorobenzene	112	15.333	15.332	(1.004)	26008	0.50000	0.50
49	Ethylbenzene	91	15.788	15.803	(1.034)	46303	0.50000	0.50
50	Xylene (m,p)	106	16.016	16.015	(1.049)	31034	1.00000	1.0
51	Bromoform	173	16.107	16.106	(1.055)	12730	0.50000	0.50
52	Styrene	104	16.471	16.470	(1.079)	17466	0.50000	0.50
53	1,1,2,2-Tetrachloroethane	83	16.592	16.592	(1.086)	19316	0.50000	0.50
54	Xylene (o)	106	16.607	16.622	(1.087)	13184	0.50000	0.50(Q)
55	2-Chlorotoluene	91	18.064	18.064	(1.183)	51032	0.50000	0.50
56	4-Ethyltoluene	105	18.337	18.337	(1.201)	62359	0.50000	0.50
57	1,3,5-Trimethylbenzene	105	18.444	18.443	(1.208)	28386	0.50000	0.50
58	1,2,4-Trimethylbenzene	105	19.066	19.065	(1.248)	26349	0.50000	0.50
59	1,3-Dichlorobenzene	146	19.294	19.293	(1.263)	16166	0.50000	0.50
60	1,4-Dichlorobenzene	146	19.400	19.399	(1.270)	15162	0.50000	0.50
61	1,2-Dichlorobenzene	146	19.946	19.946	(1.306)	11844	0.50000	0.50(M)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	ON-COL (ppbv)
62 1,2,4-Trichlorobenzene	180	22.617	22.617	(1.481)	2623	0.50000	0.50
63 Hexachlorobutadiene	225	23.406	23.406	(1.533)	4169	0.50000	0.50

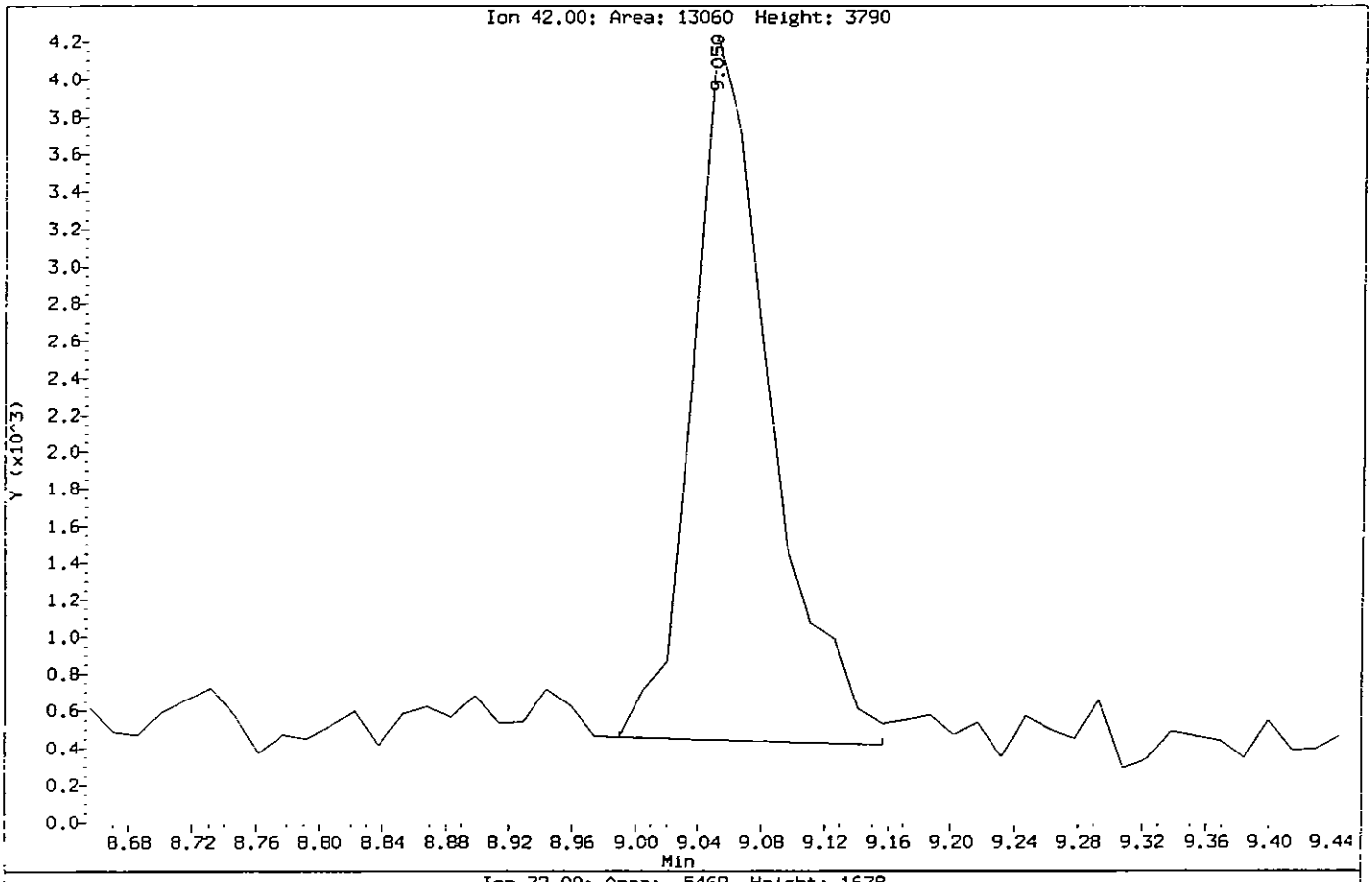
QC Flag Legend

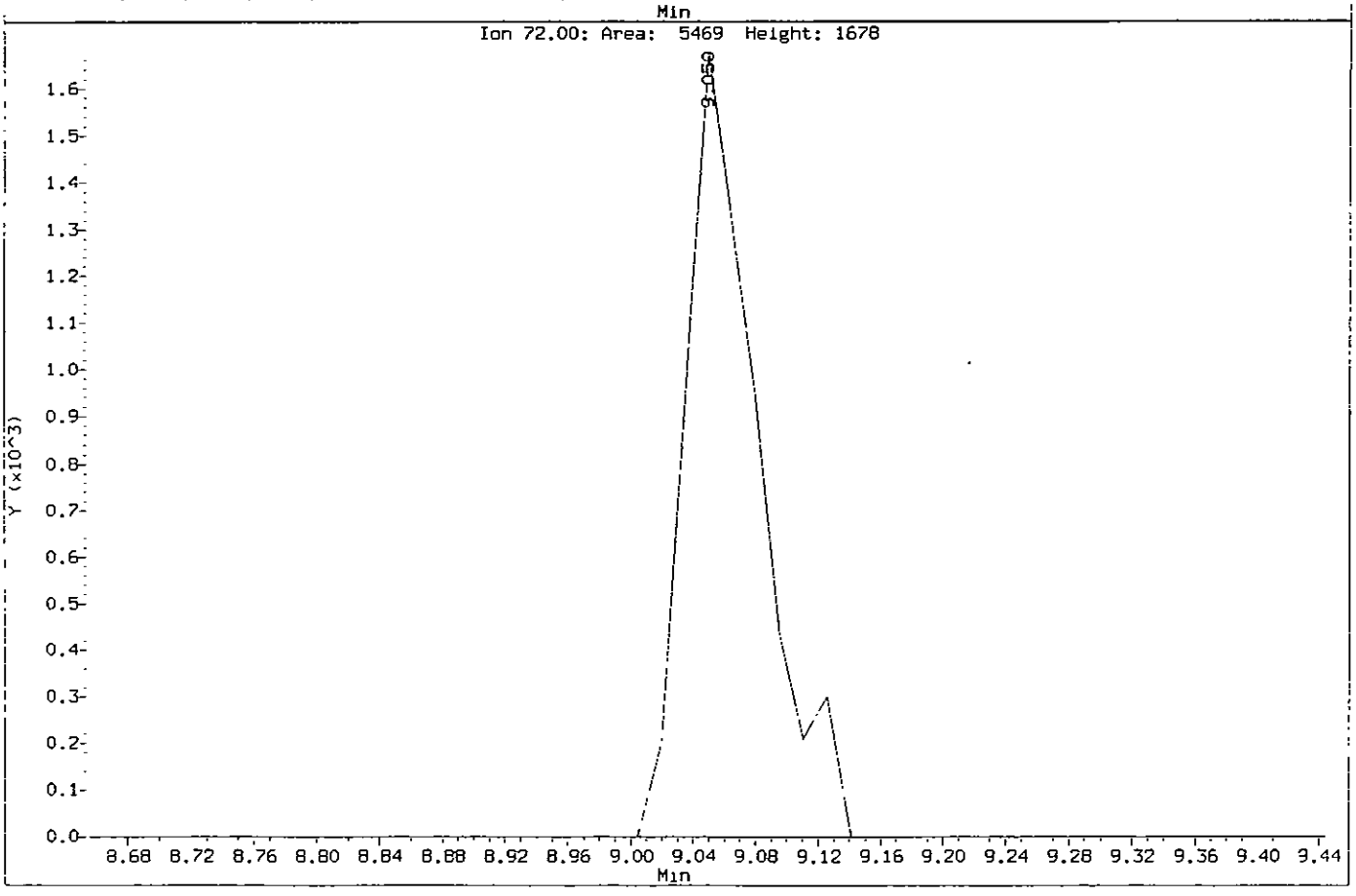
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

11/28/00

Data File: /chem/X.i/Xsvr.p/xckto15.b/ck0005.d
Injection Date: 20-NOV-2000 07:52
Instrument: X.i
Client Sample ID: ASTD0005

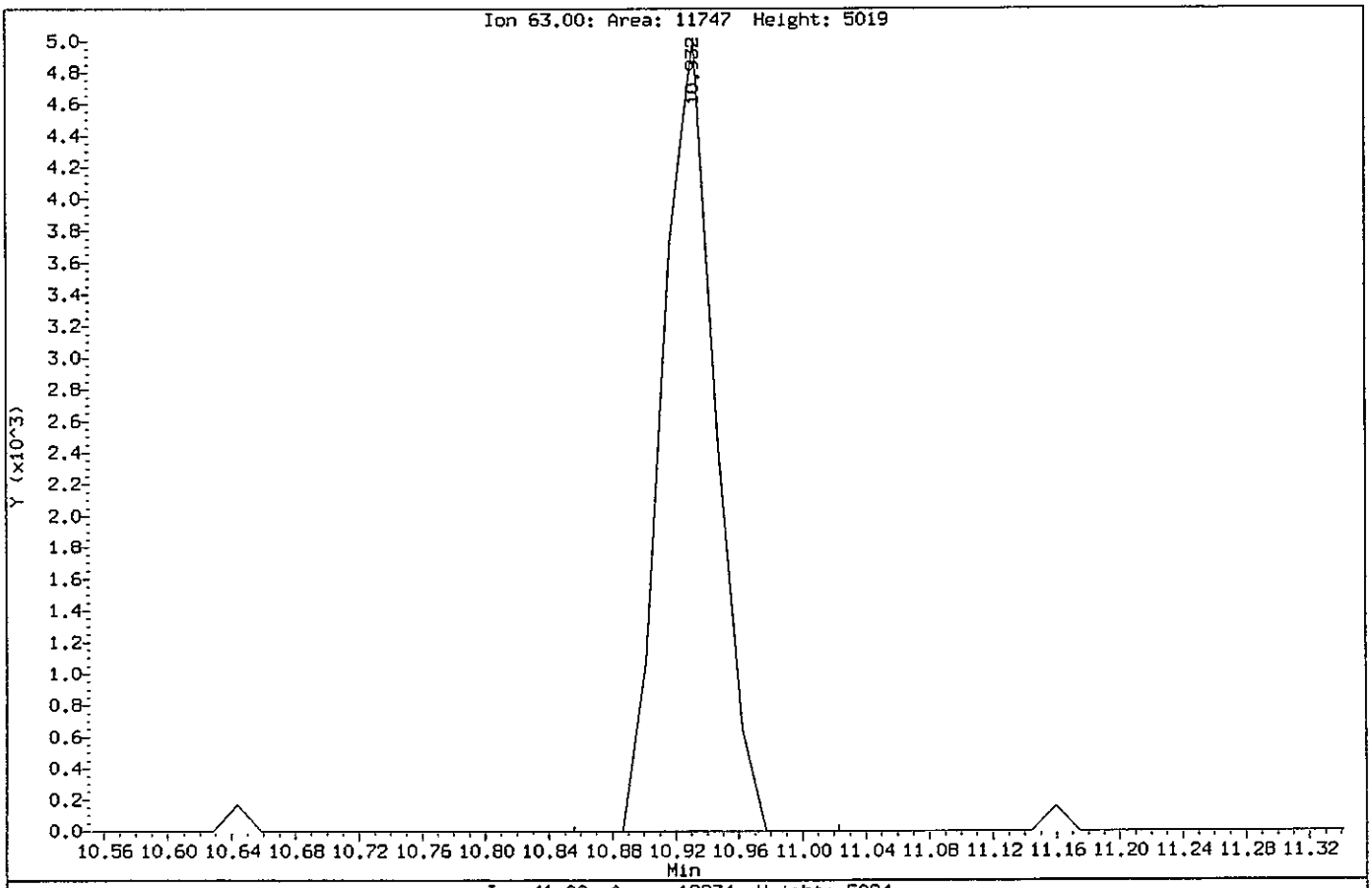
Compound: Tetrahydrofuran
CAS Number: 109-99-9

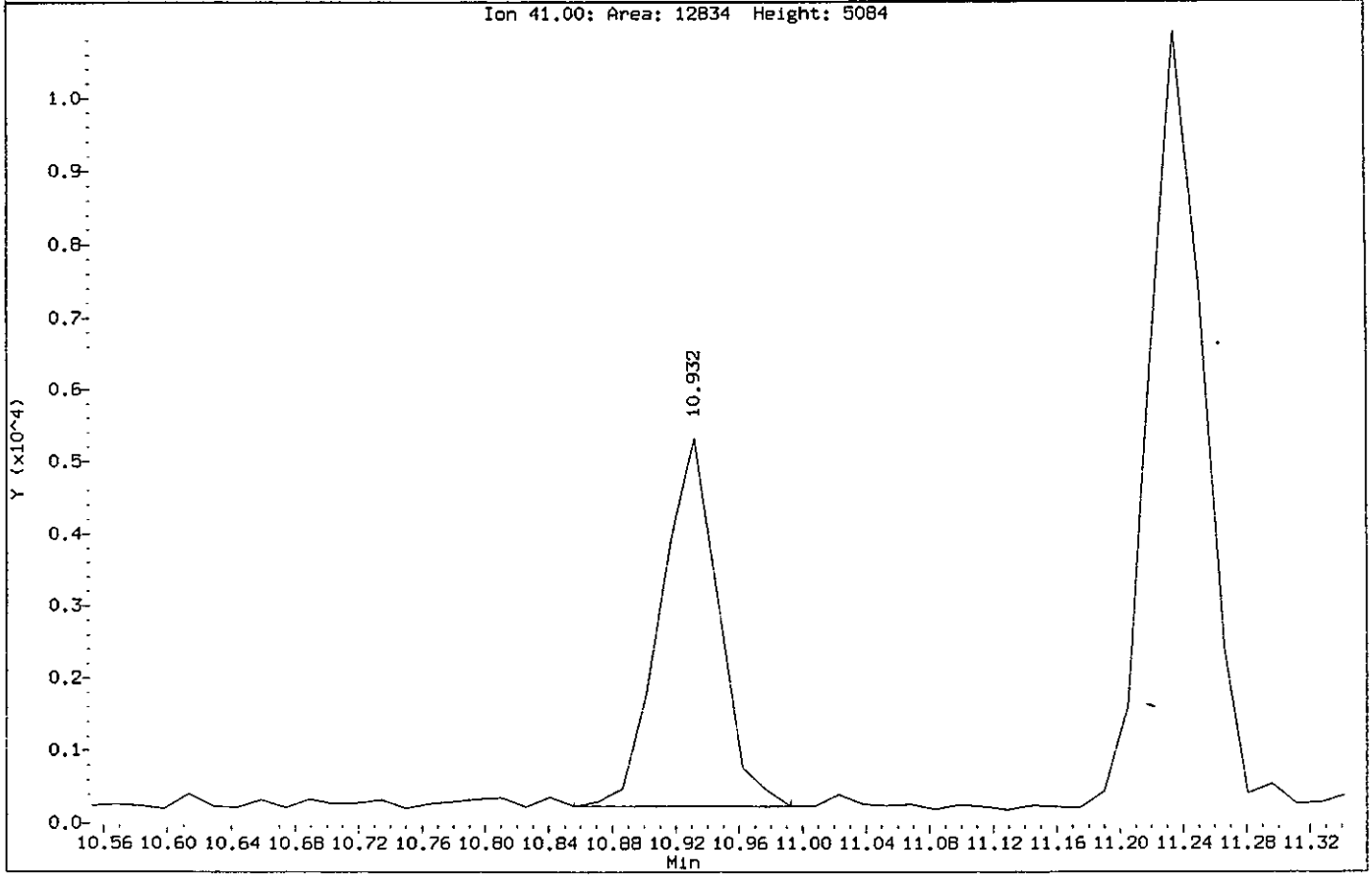




Data File: /chem/X.i/Xsvr.p/xckto15.b/ck0005.d
Injection Date: 20-NOV-2000 07:52
Instrument: X.i
Client Sample ID: ASTD0005

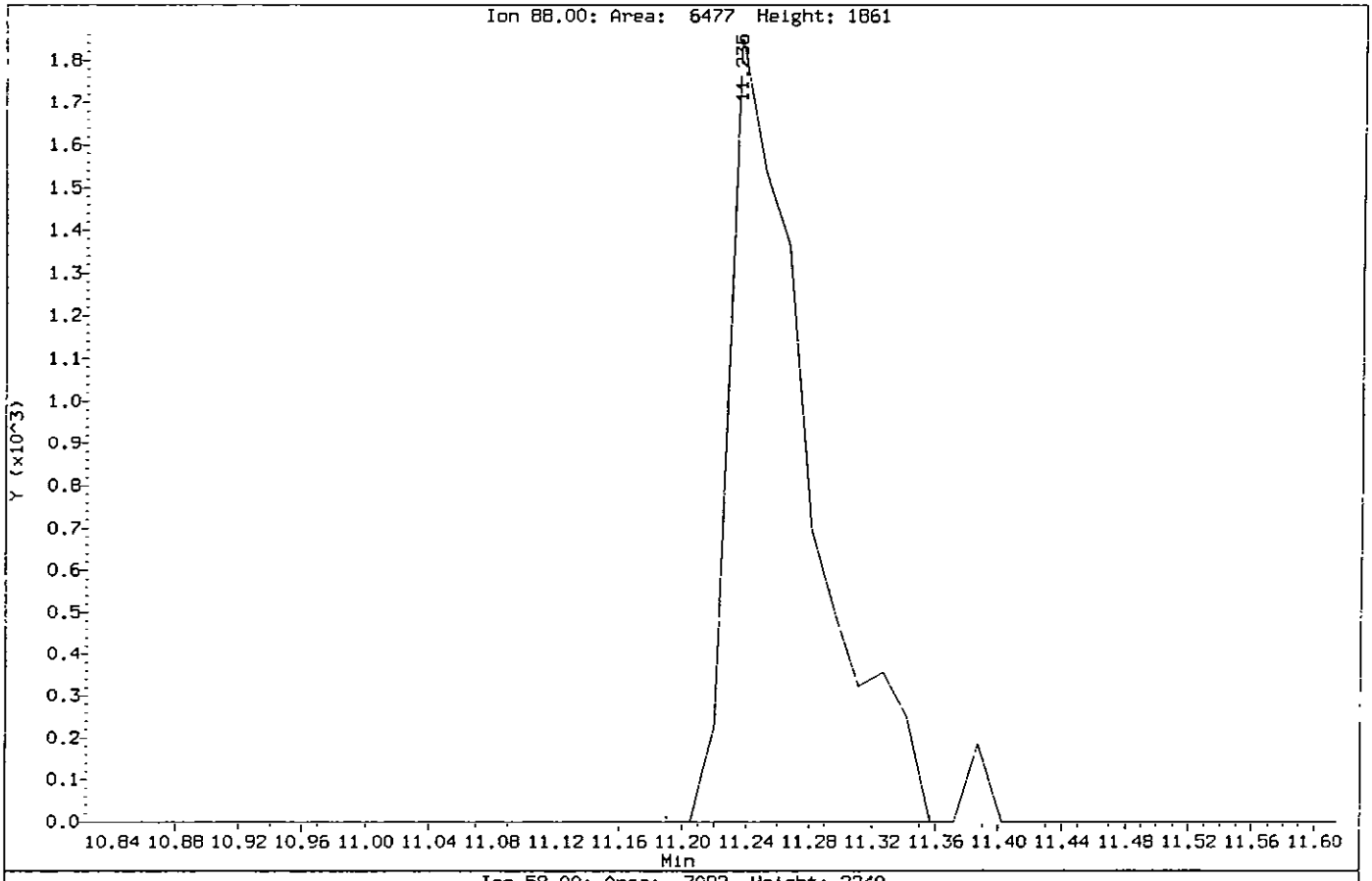
Compound: 1,2-Dichloropropane
CAS Number: 78-87-5

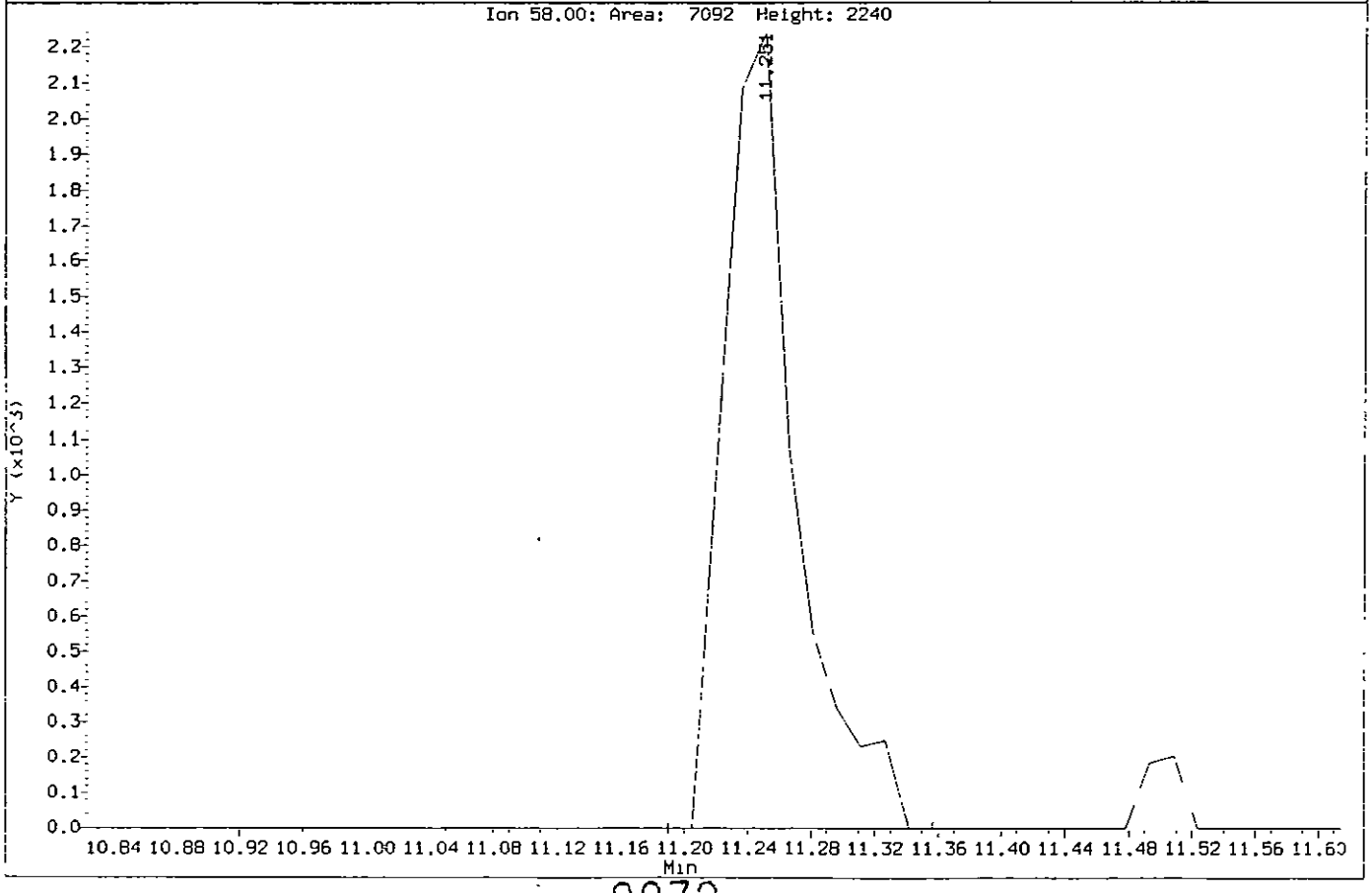




Data File: /chem/X.i/Xsvr.p/xckto15.b/ck0005.d
Injection Date: 20-NOV-2000 07:52
Instrument: X.i
Client Sample ID: ASTD0005

Compound: 1,4-Dioxane
CAS Number: 123-91-1

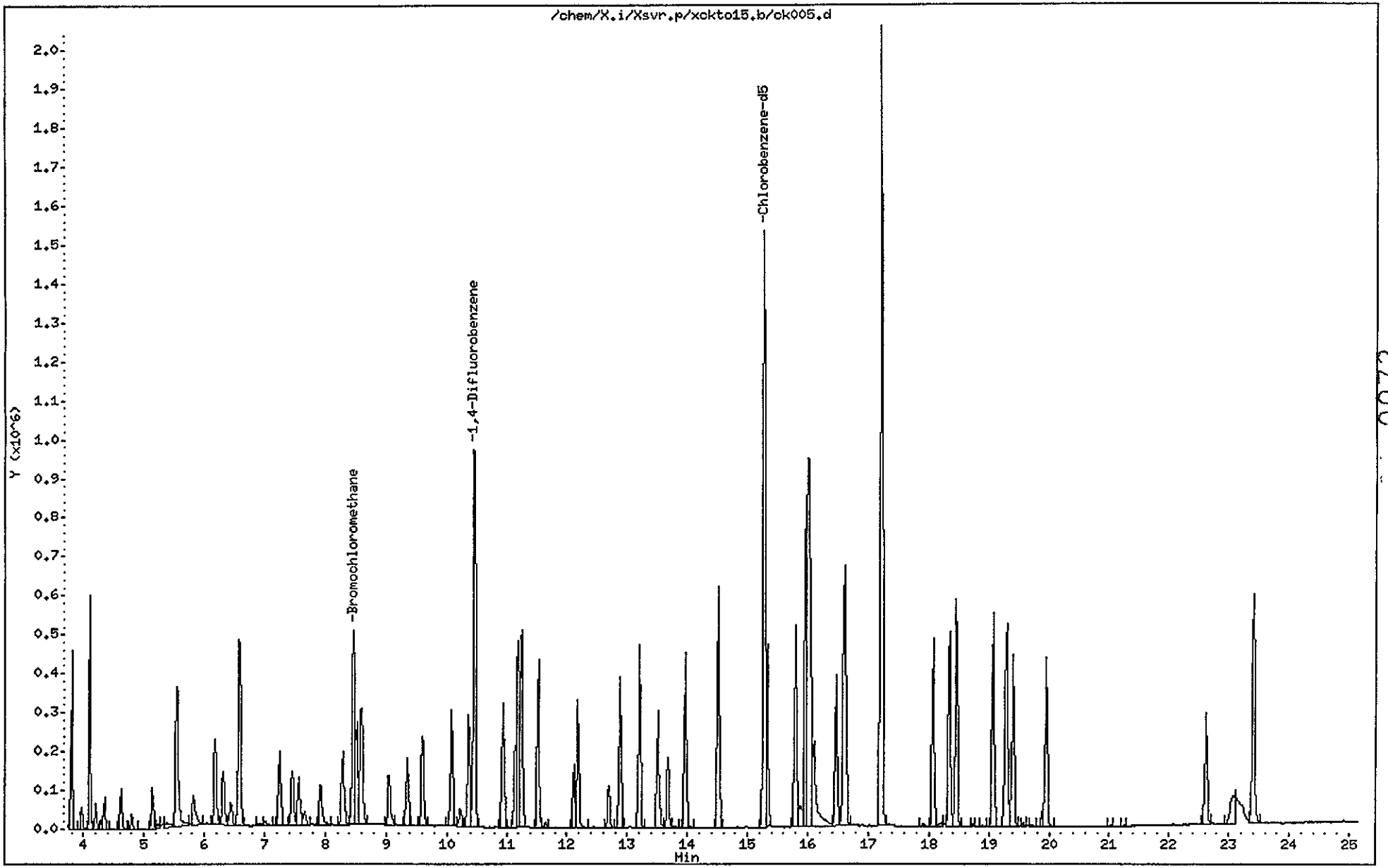




Data File: /chem/X.i/Xsvr.p/xckto15.b/ck005.d
Date : 20-NOV-2000 08:26
Client ID: ASTD005
Sample Info: ASTD005
Purge Volume: 200.0
Column phase: DB-1

Instrument: X.i

Operator: GMH
Column diameter: 0.35



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STL Burlington

AIR TOXICS QUANTITATION REPORT

Data file : /chem/X.i/Xsvr.p/xckto15.b/ck005.d
Lab Smp Id: ASTD005 Client Smp ID: ASTD005
Inj Date : 20-NOV-2000 08:26
Operator : GMM Inst ID: X.i
Smp Info : ASTD005
Misc Info :
Comment :
Method : /chem/X.i/Xsvr.p/xckto15.b/ato15.m
Meth Date : 28-Nov-2000 12:06 bes Quant Type: ISTD
Cal Date : 20-NOV-2000 08:26 Cal File: ck005.d
Als bottle: 3 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50
Processing Host: chemsvr4

Concentration Formula: Amt * DF * X* Uf/Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
X	200.00000	method volume factor
Uf	1.00000	ng unit correction factor
Vo	200.00000	Sample Volume purged (mL)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	AMOUNTS ON-COL (ppbv)
1 Dichlorodifluoromethane	85	3.800	3.828	(0.449)	404792	5.00000	5.1
2 Chloromethane	50	3.973	3.986	(0.470)	71161	5.00000	4.8
3 Dichlorotetrafluoroethane	85	4.103	4.116	(0.485)	344766	5.00000	5.1
4 Vinyl Chloride	62	4.204	4.217	(0.497)	86987	5.00000	5.0
5 1,3-Butadiene	54	4.348	4.361	(0.514)	54675	5.00000	4.6
6 Bromomethane	94	4.622	4.649	(0.546)	80179	5.00000	4.5
7 Chloroethane	64	4.795	4.822	(0.567)	39652	5.00000	4.6
8 Bromoethene	106	5.141	5.168	(0.608)	96865	5.00000	4.9
9 Acetone	43	5.530	5.529	(0.654)	227471	5.00000	4.6
10 Trichlorofluoromethane	101	5.561	5.574	(0.657)	335029	5.00000	5.0
11 Isopropyl Alcohol	45	5.819	5.832	(0.688)	159950	5.00000	4.9
12 1,1-Dichloroethene	96	6.183	6.197	(0.731)	93120	5.00000	5.1
13 Methylene Chloride	49	6.320	6.333	(0.747)	123547	5.00000	4.6
14 3-Chloropropene	41	6.441	6.455	(0.761)	56315	5.00000	4.7

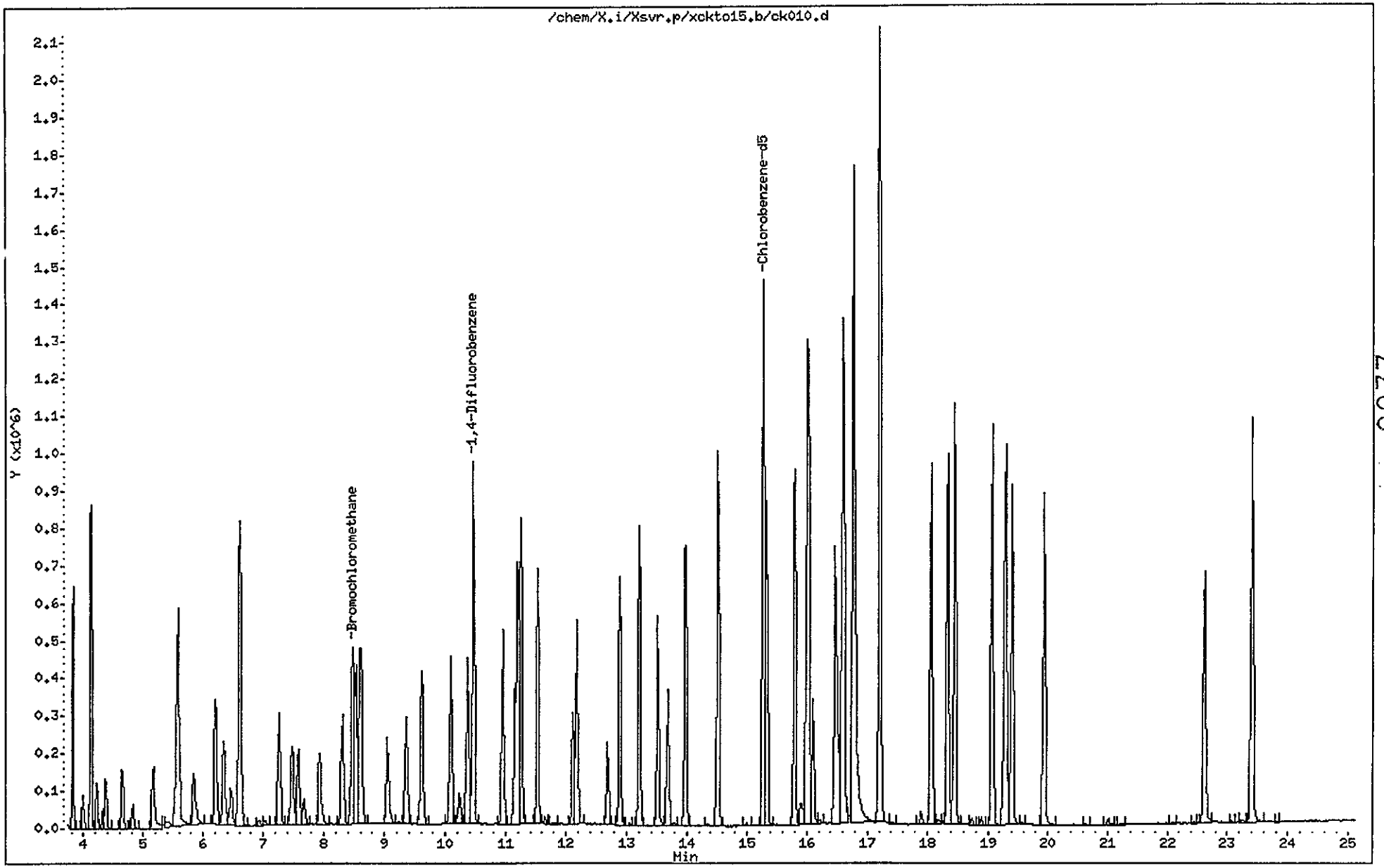
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	ON-COL (ppbv)
15	Carbon Disulfide	76	6.578	6.591	(0.778)	232948	5.00000	4.9
16	Freon TF	101	6.593	6.606	(0.779)	214521	5.00000	4.9
17	trans-1,2-Dichloroethene	61	7.245	7.259	(0.856)	166817	5.00000	5.0
18	1,1-Dichloroethane	63	7.458	7.471	(0.882)	201163	5.00000	5.0
19	Methyl tert-Butyl Ether	73	7.564	7.578	(0.894)	161417	5.00000	4.4
20	Methyl Ethyl Ketone	43	7.913	7.927	(0.935)	213435	5.00000	4.7
21	cis-1,2-Dichloroethene	61	8.292	8.306	(0.980)	175423	5.00000	5.2
* 22	Bromochloromethane	128	8.459	8.473	(1.000)	175961	10.0000	
23	n-Hexane	57	8.520	8.534	(1.007)	126635	5.00000	4.6
24	Chloroform	83	8.596	8.610	(1.016)	251044	5.00000	5.1
25	Tetrahydrofuran	42	9.036	9.050	(0.864)	114321	5.00000	4.8
26	1,2-Dichloroethane	62	9.355	9.353	(0.894)	231488	5.00000	5.0
27	1,1,1-Trichloroethane	97	9.598	9.611	(0.917)	210411	5.00000	5.1
28	Benzene	78	10.083	10.097	(0.964)	299645	5.00000	5.0
29	Carbon Tetrachloride	117	10.220	10.233	(0.977)	37341	5.00000	5.5
30	Cyclohexane	56	10.356	10.370	(0.990)	148473	5.00000	4.8
* 31	1,4-Difluorobenzene	114	10.463	10.461	(1.000)	969795	10.0000	
32	1,2-Dichloropropane	63	10.948	10.947	(1.046)	112784	5.00000	5.1
33	Bromodichloromethane	83	11.145	11.144	(1.065)	174007	5.00000	5.3
34	Trichloroethene	95	11.191	11.189	(1.070)	186698	5.00000	5.4
35	1,4-Dioxane	88	11.221	11.220	(1.073)	70334	5.00000	5.4
36	2,2,4-Trimethylpentane	57	11.252	11.250	(1.075)	522007	5.00000	4.8
37	n-Heptane	43	11.525	11.523	(1.102)	210760	5.00000	4.8
38	cis-1,3-Dichloropropene	75	12.117	12.115	(1.158)	98875	5.00000	5.4
39	Methyl Isobutyl Ketone	43	12.177	12.176	(1.164)	300338	5.00000	4.8
40	trans-1,3-Dichloropropene	75	12.693	12.692	(1.213)	75125	5.00000	4.6
41	1,1,2-Trichloroethane	83	12.891	12.889	(0.844)	123187	5.00000	5.3
42	Toluene	92	13.209	13.208	(0.865)	241350	5.00000	5.2
43	Methyl Butyl Ketone	43	13.513	13.511	(0.885)	296397	5.00000	4.6
44	Dibromochloromethane	129	13.680	13.678	(0.896)	125006	5.00000	5.3
45	1,2-Dibromoethane	107	13.968	13.982	(0.915)	416088	5.00000	5.1
46	Tetrachloroethene	166	14.514	14.513	(0.950)	220507	5.00000	5.4
* 47	Chlorobenzene-d5	117	15.273	15.272	(1.000)	1041771	10.0000	
48	Chlorobenzene	112	15.334	15.332	(1.004)	316340	5.00000	5.5
49	Ethylbenzene	91	15.804	15.803	(1.035)	566046	5.00000	5.6
50	Xylene (m,p)	106	16.017	16.015	(1.049)	369647	10.0000	11
51	Bromoform	173	16.108	16.106	(1.055)	96293	5.00000	4.4
52	Styrene	104	16.472	16.470	(1.078)	233878	5.00000	5.8
53	1,1,2,2-Tetrachloroethane	83	16.593	16.592	(1.086)	254256	5.00000	5.7
54	Xylene (o)	106	16.624	16.622	(1.088)	182174	5.00000	5.8
55	2-Chlorotoluene	91	18.065	18.064	(1.183)	399651	5.00000	4.4
56	4-Ethyltoluene	105	18.339	18.337	(1.201)	474827	5.00000	4.4
57	1,3,5-Trimethylbenzene	105	18.445	18.443	(1.208)	471038	5.00000	6.3
58	1,2,4-Trimethylbenzene	105	19.067	19.065	(1.248)	454911	5.00000	6.4
59	1,3-Dichlorobenzene	146	19.295	19.293	(1.263)	284662	5.00000	6.4
60	1,4-Dichlorobenzene	146	19.401	19.399	(1.270)	266189	5.00000	6.4
61	1,2-Dichlorobenzene	146	19.947	19.946	(1.306)	261375	5.00000	6.9

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	ON-COL (ppbv)
62 1,2,4-Trichlorobenzene	180	22.618	22.617	(1.481)	139527	5.00000	8.4
63 Hexachlorobutadiene	225	23.407	23.406	(1.533)	172716	5.00000	8.1

Data File: /chem/X.i/Xsvr.p/xckto15.b/ck010.d
Date : 20-NOV-2000 09:00
Client ID: ASTD010
Sample Info: ASTD010
Purge Volume: 200.0
Column phase: DB-1

Instrument: X.i

Operator: CMM
Column diameter: 0.35



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STL Burlington

AIR TOXICS QUANTITATION REPORT

Data file : /chem/X.i/Xsvr.p/xckto15.b/ck010.d
Lab Smp Id: ASTD010 Client Smp ID: ASTD010
Inj Date : 20-NOV-2000 09:00
Operator : GMM Inst ID: X.i
Smp Info : ASTD010
Misc Info :
Comment :
Method : /chem/X.i/Xsvr.p/xckto15.b/ato15.m
Meth Date : 28-Nov-2000 12:06 bes Quant Type: ISTD
Cal Date : 20-NOV-2000 09:00 Cal File: ck010.d
Als bottle: 4 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50
Processing Host: chemsvr4

Concentration Formula: Amt * DF * X* Uf/Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
X	200.00000	method volume factor
Uf	1.00000	ng unit correction factor
Vo	200.00000	Sample Volume purged (mL)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	RSL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	ON-COL (ppbv)
1 Dichlorodifluoromethane	85	3.828	3.828	(0.452)	674181	10.0000	9.0
2 Chloromethane	50	3.986	3.986	(0.470)	126765	10.0000	8 9
3 Dichlorotetrafluoroethane	85	4.116	4.116	(0.486)	596268	10.0000	9.2
4 Vinyl Chloride	62	4.217	4.217	(0.498)	147810	10.0000	8.9
5 1,3-Butadiene	54	4.361	4.361	(0.515)	95683	10.0000	8.7
6 Bromomethane	94	4.649	4.649	(0.549)	138160	10.0000	8.4
7 Chloroethane	64	4.822	4.822	(0.569)	73469	10.0000	8.9
8 Bromoethene	106	5.168	5.168	(0.610)	171006	10.0000	9.1
9 Acetone	43	5.529	5.529	(0.653)	385910	10.0000	8.4
10 Trichlorofluoromethane	101	5.574	5.574	(0.658)	561965	10.0000	8.9
11 Isopropyl Alcohol	45	5.832	5.832	(0.688)	291373	10.0000	9.2
12 1,1-Dichloroethene	96	6.197	6.197	(0.731)	151802	10.0000	8.8
13 Methylene Chloride	49	6.333	6.333	(0.747)	212521	10.0000	8.5
14 3-Chloropropene	41	6.455	6.455	(0.762)	97231	10.0000	8.6

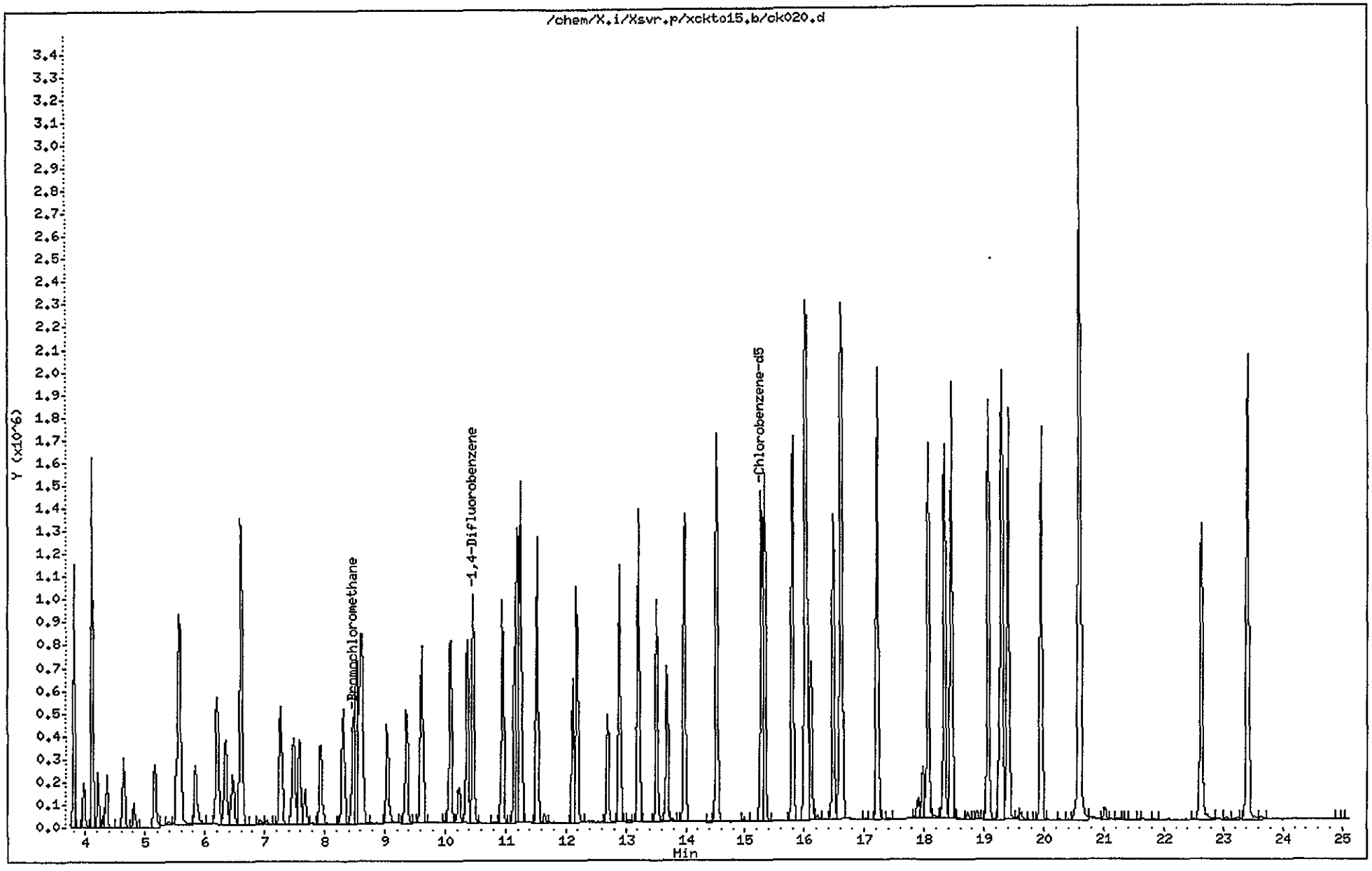
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	AMOUNTS ON-COL (ppbv)
	15 Carbon Disulfide	76	6.591	6.591	(0.778)	403679	10.0000	9.0
	16 Freon TF	101	6.606	6.606	(0.780)	364270	10.0000	8.8
	17 trans-1,2-Dichloroethene	61	7.259	7.259	(0.857)	282460	10.0000	8.9
	18 1,1-Dichloroethane	63	7.471	7.471	(0.882)	331875	10.0000	8.7
	19 Methyl tert-Butyl Ether	73	7.578	7.578	(0.894)	279486	10.0000	8.3
	20 Methyl Ethyl Ketone	43	7.927	7.927	(0.936)	387805	10.0000	9.0
	21 cis-1,2-Dichloroethene	61	8.306	8.306	(0.980)	285578	10.0000	8.9
*	22 Bromochloromethane	128	8.473	8.473	(1.000)	176038	10.0000	
	23 n-Hexane	57	8.534	8.534	(1.007)	221281	10.0000	8.5
	24 Chloroform	83	8.610	8.610	(1.016)	418806	10.0000	9.0
	25 Tetrahydrofuran	42	9.050	9.050	(0.865)	194420	10.0000	9.4
	26 1,2-Dichloroethane	62	9.353	9.353	(0.894)	382569	10.0000	9.4
	27 1,1,1-Trichloroethane	97	9.611	9.611	(0.919)	371901	10.0000	10
	28 Benzene	78	10.097	10.097	(0.965)	496466	10.0000	9.4
	29 Carbon Tetrachloride	117	10.233	10.233	(0.978)	65509	10.0000	10
	30 Cyclohexane	56	10.370	10.370	(0.991)	236757	10.0000	9.0
*	31 1,4-Difluorobenzene	114	10.461	10.461	(1.000)	868474	10.0000	
	32 1,2-Dichloropropane	63	10.947	10.947	(1.046)	175622	10.0000	9.2
	33 Bromodichloromethane	83	11.144	11.144	(1.065)	286112	10.0000	9.8
	34 Trichloroethene	95	11.189	11.189	(1.070)	275950	10.0000	9.2
	35 1,4-Dioxane	88	11.220	11.220	(1.073)	112854	10.0000	9.8
	36 2,2,4-Trimethylpentane	57	11.250	11.250	(1.075)	805204	10.0000	8.8
	37 n-Heptane	43	11.523	11.523	(1.102)	319992	10.0000	8.7
	38 cis-1,3-Dichloropropene	75	12.115	12.115	(1.158)	179753	10.0000	10
	39 Methyl Isobutyl Ketone	43	12.176	12.176	(1.164)	511610	10.0000	9.4
	40 trans-1,3-Dichloropropene	75	12.692	12.692	(1.213)	141933	10.0000	9.8
	41 1,1,2-Trichloroethane	83	12.889	12.889	(0.844)	198794	10.0000	9.1
	42 Toluene	92	13.208	13.208	(0.865)	412715	10.0000	9.4
	43 Methyl Butyl Ketone	43	13.511	13.511	(0.885)	542273	10.0000	9.0
	44 Dibromochloromethane	129	13.678	13.678	(0.896)	253942	10.0000	11
	45 1,2-Dibromoethane	107	13.982	13.982	(0.916)	757857	10.0000	9.7
	46 Tetrachloroethene	166	14.513	14.513	(0.950)	371844	10.0000	9.5
*	47 Chlorobenzene-d5	117	15.272	15.272	(1.000)	1021687	10.0000	
	48 Chlorobenzene	112	15.332	15.332	(1.004)	564559	10.0000	10
	49 Ethylbenzene	91	15.803	15.803	(1.035)	994404	10.0000	10
	50 Xylene (m,p)	106	16.015	16.015	(1.049)	678081	20.0000	20
	51 Bromoform	173	16.106	16.106	(1.055)	210732	10.0000	9.8
	52 Styrene	104	16.470	16.470	(1.079)	463840	10.0000	11
	53 1,1,2,2-Tetrachloroethane	83	16.592	16.592	(1.086)	477821	10.0000	11
	54 Xylene (o)	106	16.622	16.622	(1.088)	345115	10.0000	11
	55 2-Chlorotoluene	91	18.064	18.064	(1.183)	805169	10.0000	9.4
	56 4-Ethyltoluene	105	18.337	18.337	(1.201)	932018	10.0000	9.1
	57 1,3,5-Trimethylbenzene	105	18.443	18.443	(1.208)	911689	10.0000	11
	58 1,2,4-Trimethylbenzene	105	19.065	19.065	(1.248)	882341	10.0000	12
	59 1,3-Dichlorobenzene	146	19.293	19.293	(1.263)	566790	10.0000	12
	60 1,4-Dichlorobenzene	146	19.399	19.399	(1.270)	541757	10.0000	12
	61 1,2-Dichlorobenzene	146	19.946	19.946	(1.306)	531749	10.0000	12

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	ON-COL (ppbv)
62 1,2,4-Trichlorobenzene	180	22.617	22.617	(1.481)	330270	10.0000	15
63 Hexachlorobutadiene	225	23.406	23.406	(1.533)	324856	10.0000	13

Data File: /chem/X.i/Xsvr.p/xckto15.b/ck020.d
Date : 20-NOV-2000 09:34
Client ID: ASTD020
Sample Info: ASTD020
Purge Volume: 200.0
Column phase: DB-1

Instrument: X.i

Operator: GMH
Column diameter: 0.35



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AIR TOXICS QUANTITATION REPORT

Data file : /chem/X.i/Xsvr.p/xckto15.b/ck020.d
Lab Smp Id: ASTD020 Client Smp ID: ASTD020
Inj Date : 20-NOV-2000 09:34
Operator : GMM Inst ID: X.i
Smp Info : ASTD020
Misc Info :
Comment :
Method : /chem/X.i/Xsvr.p/xckto15.b/ato15.m
Meth Date : 28-Nov-2000 12:06 bes Quant Type: ISTD
Cal Date : 20-NOV-2000 09:34 Cal File: ck020.d
Als bottle: 5 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50
Processing Host: chemsvr4

Concentration Formula: Amt * DF * X* Uf/Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
X	200.00000	method volume factor
Uf	1.00000	ng unit correction factor
Vo	200.00000	Sample Volume purged (mL)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	AMOUNTS ON-COL (ppbv)
1 Dichlorodifluoromethane	85	3.800	3.828	(0.448)	1253558	20.0000	17
2 Chloromethane	50	3.973	3.986	(0.469)	245909	20.0000	17
3 Dichlorotetrafluoroethane	85	4.103	4.116	(0.484)	1110057	20.0000	17
4 Vinyl Chloride	62	4.204	4.217	(0.496)	276875	20.0000	17
5 1,3-Butadiene	54	4.348	4.361	(0.513)	181756	20.0000	17
6 Bromomethane	94	4.636	4.649	(0.547)	282068	20.0000	17
7 Chloroethane	64	4.809	4.822	(0.567)	138227	20.0000	17
8 Bromoethene	106	5.155	5.168	(0.608)	314824	20.0000	17
9 Acetone	43	5.515	5.529	(0.651)	743391	20.0000	16
10 Trichlorofluoromethane	101	5.561	5.574	(0.656)	1047330	20.0000	17
11 Isopropyl Alcohol	45	5.834	5.832	(0.688)	551612	20.0000	18
12 1,1-Dichloroethene	96	6.198	6.197	(0.731)	279612	20.0000	16
13 Methylene Chloride	49	6.335	6.333	(0.748)	398898	20.0000	16
14 3-Chloropropene	41	6.456	6.455	(0.762)	227329	20.0000	20

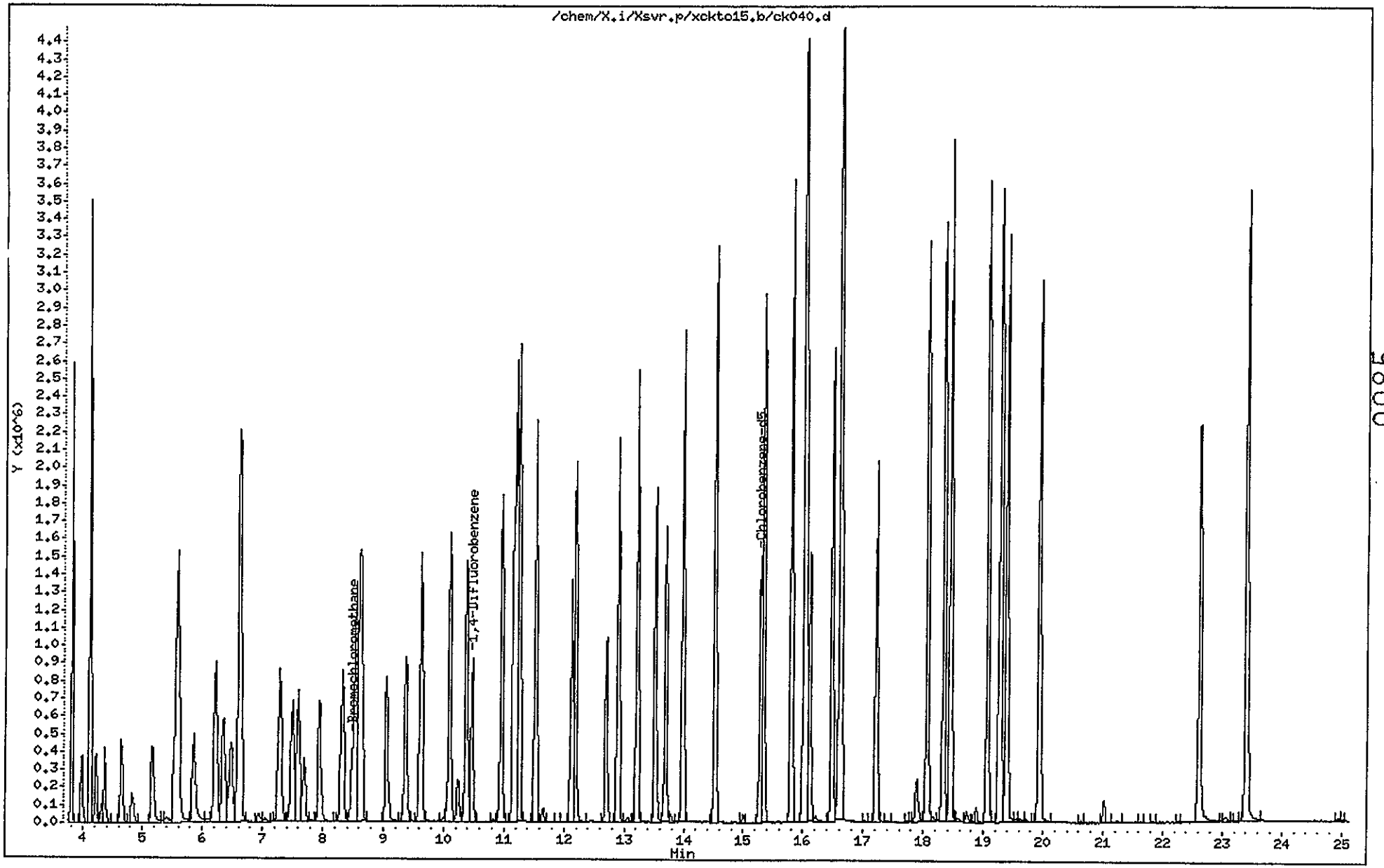
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	AMOUNTS ON-COL (ppbv)
	15 Carbon Disulfide	76	6.577	6.591	(0.776)	768621	20.0000	17
	16 Freon TF	101	6.608	6.606	(0.780)	687894	20.0000	17
	17 trans-1,2-Dichloroethene	61	7.260	7.259	(0.857)	531154	20.0000	17
	18 1,1-Dichloroethane	63	7.473	7.471	(0.882)	641679	20.0000	17
	19 Methyl tert-Butyl Ether	73	7.564	7.578	(0.893)	538805	20.0000	16
	20 Methyl Ethyl Ketone	43	7.928	7.927	(0.936)	758212	20.0000	18
	21 cis-1,2-Dichloroethene	61	8.307	8.306	(0.980)	519836	20.0000	16
*	22 Bromochloromethane	128	8.474	8.473	(1.000)	182642	10.0000	
	23 n-Hexane	57	8.535	8.534	(1.007)	413122	20.0000	16
	24 Chloroform	83	8.611	8.610	(1.016)	794901	20.0000	17
	25 Tetrahydrofuran	42	9.036	9.050	(0.864)	363192	20.0000	17
	26 1,2-Dichloroethane	62	9.355	9.353	(0.894)	675545	20.0000	17
	27 1,1,1-Trichloroethane	97	9.613	9.611	(0.919)	720720	20.0000	19
	28 Benzene	78	10.098	10.097	(0.965)	923426	20.0000	17
	29 Carbon Tetrachloride	117	10.235	10.233	(0.978)	133329	20.0000	20
	30 Cyclohexane	56	10.371	10.370	(0.991)	454456	20.0000	17
*	31 1,4-Difluorobenzene	114	10.462	10.461	(1.000)	917612	10.0000	
	32 1,2-Dichloropropane	63	10.948	10.947	(1.046)	343810	20.0000	18
	33 Bromodichloromethane	83	11.145	11.144	(1.065)	624381	20.0000	20
	34 Trichloroethene	95	11.191	11.189	(1.070)	497889	20.0000	16
	35 1,4-Dioxane	88	11.221	11.220	(1.073)	215674	20.0000	18
	36 2,2,4-Trimethylpentane	57	11.252	11.250	(1.075)	1519717	20.0000	17
	37 n-Heptane	43	11.525	11.523	(1.102)	615391	20.0000	17
	38 cis-1,3-Dichloropropene	75	12.117	12.115	(1.158)	394462	20.0000	21
	39 Methyl Isobutyl Ketone	43	12.177	12.176	(1.164)	987607	20.0000	18
	40 trans-1,3-Dichloropropene	75	12.693	12.692	(1.213)	316948	20.0000	20
	41 1,1,2-Trichloroethane	83	12.890	12.889	(0.844)	367268	20.0000	18
	42 Toluene	92	13.209	13.208	(0.865)	716997	20.0000	17
	43 Methyl Butyl Ketone	43	13.513	13.511	(0.885)	927127	20.0000	16
	44 Dibromochloromethane	129	13.680	13.678	(0.896)	502782	20.0000	21
	45 1,2-Dibromoethane	107	13.983	13.982	(0.916)	1349193	20.0000	18
	46 Tetrachloroethene	166	14.514	14.513	(0.950)	626169	20.0000	17
*	47 Chlorobenzene-d5	117	15.273	15.272	(1.000)	1015898	10.0000	
	48 Chlorobenzene	112	15.334	15.332	(1.004)	992449	20.0000	18
	49 Ethylbenzene	91	15.804	15.803	(1.035)	1768496	20.0000	18
	50 Xylene (m,p)	106	16.017	16.015	(1.049)	1197562	40.0000	37
	51 Bromoform	173	16.108	16.106	(1.055)	435968	20.0000	20
	52 Styrene	104	16.472	16.470	(1.078)	834412	20.0000	20
	53 1,1,2,2-Tetrachloroethane	83	16.593	16.592	(1.086)	882839	20.0000	20
	54 Xylene (o)	106	16.624	16.622	(1.088)	570689	20.0000	18
	55 2-Chlorotoluene	91	18.065	18.064	(1.183)	1335816	20.0000	16
	56 4-Ethyltoluene	105	18.338	18.337	(1.201)	1547333	20.0000	16
	57 1,3,5-Trimethylbenzene	105	18.445	18.443	(1.208)	1543304	20.0000	20
	58 1,2,4-Trimethylbenzene	105	19.067	19.065	(1.248)	1477157	20.0000	20
	59 1,3-Dichlorobenzene	146	19.295	19.293	(1.263)	1081003	20.0000	22
	60 1,4-Dichlorobenzene	146	19.401	19.399	(1.270)	1039175	20.0000	22
	61 1,2-Dichlorobenzene	146	19.947	19.946	(1.306)	1017781	20.0000	23

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	AMOUNTS ON-COL (ppbv)
62 1,2,4-Trichlorobenzene	180	22.618	22.617	(1.481)	642544	20.0000	26
63 Hexachlorobutadiene	225	23.407	23.406	(1.533)	612822	20.0000	23

Data File: /chem/X.i/Xsvr.p/xckto15.b/ck040.d
Date : 20-NOV-2000 10:11
Client ID: ASTD040
Sample Info: ASTD040
Purge Volume: 200.0
Column phase: DB-1

Instrument: X.i

Operator: GMM
Column diameter: 0.35



STL Burlington

AIR TOXICS QUANTITATION REPORT

Data file : /chem/X.i/Xsvr.p/xckto15.b/ck040.d
Lab Smp Id: ASTD040 Client Smp ID: ASTD040
Inj Date : 20-NOV-2000 10:11
Operator : GMM Inst ID: X.i
Smp Info : ASTD040
Misc Info :
Comment :
Method : /chem/X.i/Xsvr.p/xckto15.b/ato15.m
Meth Date : 28-Nov-2000 12:06 bes Quant Type: ISTD
Cal Date : 20-NOV-2000 10:11 Cal File: ck040.d
Als bottle: 6 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50
Processing Host: chemsvr4

Concentration Formula: Amt * DF * X* Uf/Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
X	200.00000	method volume factor
Uf	1.00000	ng unit correction factor
Vo	200.00000	Sample Volume purged (mL)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	AMOUNTS ON-COL (ppbv)
1 Dichlorodifluoromethane	85	3.813	3.828	(0.449)	2387382	40.0000	34
2 Chloromethane	50	3.986	3.986	(0.470)	524459	40.0000	38
3 Dichlorotetrafluoroethane	85	4.116	4.116	(0.485)	2052634	40.0000	33
4 Vinyl Chloride	62	4.217	4.217	(0.497)	518157	40.0000	33
5 1,3-Butadiene	54	4.361	4.361	(0.514)	326946	40.0000	32
6 Bromomethane	94	4.635	4.649	(0.546)	468564	40.0000	31
7 Chloroethane	64	4.822	4.822	(0.568)	262378	40.0000	34
8 Bromoethene	106	5.154	5.168	(0.607)	573599	40.0000	32
9 Acetone	43	5.529	5.529	(0.651)	1401332	40.0000	33
10 Trichlorofluoromethane	101	5.575	5.574	(0.657)	2019609	40.0000	34
11 Isopropyl Alcohol	45	5.848	5.832	(0.689)	1103352	40.0000	36
12 1,1-Dichloroethene	96	6.212	6.197	(0.732)	528864	40.0000	33
13 Methylene Chloride	49	6.349	6.333	(0.748)	776564	40.0000	33
14 3-Chloropropene	41	6.470	6.455	(0.762)	524478	40.0000	44(A)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	ON-COL (ppbv)
15	Carbon Disulfide	76	6.592	6.591	(0.777)	1525252	40.0000	36
16	Freon TF	101	6.622	6.606	(0.780)	1298139	40.0000	33
17	trans-1,2-Dichloroethene	61	7.274	7.259	(0.857)	1031093	40.0000	34
18	1,1-Dichloroethane	63	7.487	7.471	(0.882)	1250894	40.0000	35
19	Methyl tert-Butyl Ether	73	7.578	7.578	(0.893)	1141885	40.0000	36
20	Methyl Ethyl Ketone	43	7.927	7.927	(0.934)	1550757	40.0000	37
21	cis-1,2-Dichloroethene	61	8.322	8.306	(0.980)	1005364	40.0000	33
* 22	Bromochloromethane	128	8.489	8.473	(1.000)	181150	10.0000	
23	n-Hexane	57	8.534	8.534	(1.005)	827916	40.0000	34
24	Chloroform	83	8.625	8.610	(1.016)	1552244	40.0000	35
25	Tetrahydrofuran	42	9.050	9.050	(0.864)	721300	40.0000	36
26	1,2-Dichloroethane	62	9.369	9.353	(0.894)	1331735	40.0000	34
27	1,1,1-Trichloroethane	97	9.627	9.611	(0.919)	1487208	40.0000	39
28	Benzene	78	10.097	10.097	(0.964)	1875694	40.0000	36
29	Carbon Tetrachloride	117	10.234	10.233	(0.977)	216639	40.0000	34
30	Cyclohexane	56	10.370	10.370	(0.990)	928061	40.0000	36
* 31	1,4-Difluorobenzene	114	10.477	10.461	(1.000)	909621	10.0000	
32	1,2-Dichloropropane	63	10.962	10.947	(1.046)	682064	40.0000	36
33	Bromodichloromethane	83	11.159	11.144	(1.065)	1411019	40.0000	45(A)
34	Trichloroethene	95	11.205	11.189	(1.070)	942704	40.0000	33
35	1,4-Dioxane	88	11.220	11.220	(1.071)	434301	40.0000	38
36	2,2,4-Trimethylpentane	57	11.266	11.250	(1.075)	3065119	40.0000	35
37	n-Heptane	43	11.539	11.523	(1.101)	1251743	40.0000	35
38	cis-1,3-Dichloropropene	75	12.131	12.115	(1.158)	909891	40.0000	48(A)
39	Methyl Isobutyl Ketone	43	12.191	12.176	(1.164)	2035621	40.0000	37
40	trans-1,3-Dichloropropene	75	12.707	12.692	(1.213)	777865	40.0000	48(A)
41	1,1,2-Trichloroethane	83	12.905	12.889	(0.844)	728168	40.0000	35
42	Toluene	92	13.223	13.208	(0.865)	1427999	40.0000	34
43	Methyl Butyl Ketone	43	13.527	13.511	(0.885)	1957148	40.0000	35
44	Dibromochloromethane	129	13.694	13.678	(0.896)	1186008	40.0000	46(A)
45	1,2-Dibromoethane	107	13.982	13.982	(0.915)	2698903	40.0000	36
46	Tetrachloroethene	166	14.528	14.513	(0.950)	1218576	40.0000	33
* 47	Chlorobenzene-d5	117	15.287	15.272	(1.000)	1041780	10.0000	
48	Chlorobenzene	112	15.333	15.332	(1.003)	2004610	40.0000	37
49	Ethylbenzene	91	15.803	15.803	(1.034)	3559973	40.0000	37
50	Xylene (m,p)	106	16.031	16.015	(1.049)	2428719	80.0000	74
51	Bromoform	173	16.122	16.106	(1.055)	1089377	40.0000	47(A)
52	Styrene	104	16.486	16.470	(1.078)	1753495	40.0000	41(A)
53	1,1,2,2-Tetrachloroethane	83	16.607	16.592	(1.086)	1876330	40.0000	41(A)
54	Xylene (o)	106	16.623	16.622	(1.087)	1186117	40.0000	38
55	2-Chlorotoluene	91	18.064	18.064	(1.182)	2698131	40.0000	34
56	4-Ethyltoluene	105	18.337	18.337	(1.200)	3220146	40.0000	34
57	1,3,5-Trimethylbenzene	105	18.444	18.443	(1.206)	3043904	40.0000	38
58	1,2,4-Trimethylbenzene	105	19.066	19.065	(1.247)	2962106	40.0000	39
59	1,3-Dichlorobenzene	146	19.293	19.293	(1.262)	1990578	40.0000	40
60	1,4-Dichlorobenzene	146	19.400	19.399	(1.269)	1942428	40.0000	40(A)
61	1,2-Dichlorobenzene	146	19.946	19.946	(1.305)	1854584	40.0000	41(A)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	ON-COL (ppbv)
62 1,2,4-Trichlorobenzene	180	22.617	22.617	(1.479)	1149324	40.0000	45(A)
63 Hexachlorobutadiene	225	23.406	23.406	(1.531)	1090265	40.0000	40(A)

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

STL Burlington

INITIAL CALIBRATION DATA

Start Cal Date : 20-NOV-2000 07:52
End Cal Date : 20-NOV-2000 10:11
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/X.i/Xsvr.p/xckto15.b/ato15.m
Cal Date : 28-Nov-2000 12:07 bes
Curve Type : Average

Calibration File Names:
Level 1: /chem/X.i/Xsvr.p/xckto15.b/ck0005.d
Level 2: /chem/X.i/Xsvr.p/xckto15.b/ck005.d
Level 3: /chem/X.i/Xsvr.p/xckto15.b/ck010.d
Level 4: /chem/X.i/Xsvr.p/xckto15.b/ck020.d
Level 5: /chem/X.i/Xsvr.p/xckto15.b/ck040.d

Compound	0.50000 Level 1	5.000 Level 2	10.000 Level 3	20.000 Level 4	40.000 Level 5	___ RRF	% RSD
1 Dichlorodifluoromethane	4.39233	4.60093	3.82975	3.43174	3.29476	3.90990	14.713
2 Chloromethane	0.88924	0.80883	0.72010	0.67320	0.72379	0.76303	11.251
3 Dichlorotetrafluoroethane	3.77090	3.91866	3.38716	3.03889	2.83278	3.38968	13.666
4 Vinyl Chloride	1.00541	0.98871	0.83965	0.75797	0.71509	0.86137	15.305
5 1,3-Butadiene	0.71701	0.62144	0.54354	0.49757	0.45121	0.56615	18.576
6 Bromomethane	1.10526	0.91133	0.78483	0.77219	0.64665	0.84405	20.554
7 Chloroethane	0.53916	0.45069	0.41735	0.37841	0.36210	0.42954	16.369
8 Bromoethene	1.14353	1.10098	0.97142	0.86186	0.79161	0.97388	15.463
9 Acetone	3.06231	2.58547	2.19220	2.03510	1.93394	2.36181	19.625
10 Trichlorofluoromethane	3.72347	3.80799	3.19229	2.86717	2.78721	3.27563	14.451
11 Isopropyl Alcohol	1.91088	1.81802	1.65517	1.51009	1.52270	1.68337	10.565
12 1,1-Dichloroethene	1.02777	1.05842	0.86233	0.76546	0.72987	0.88877	16.807
13 Methylene Chloride	1.63391	1.40425	1.20725	1.09202	1.07171	1.28183	18.490
14 3-Chloropropene	0.72782	0.64009	0.55233	0.62233	0.72382	0.65328	11.315
15 Carbon Disulfide	2.70454	2.64772	2.29314	2.10417	2.10496	2.37091	12.222
16 Freon TF	2.52877	2.43828	2.06927	1.88318	1.79152	2.14220	15.350
17 trans-1,2-Dichloroethene	1.90724	1.89607	1.60454	1.45409	1.42298	1.65698	14.104
18 1,1-Dichloroethane	2.31390	2.28645	1.88525	1.75666	1.72632	1.99371	14.356
19 Methyl tert-Butyl Ether	2.31421	1.83469	1.58765	1.47503	1.57588	1.75749	19.243
20 Methyl Ethyl Ketone	2.75425	2.42594	2.20296	2.07568	2.14016	2.31980	11.914
21 cis-1,2-Dichloroethene	1.86272	1.99389	1.62225	1.42310	1.38747	1.65789	16.083
23 n-Hexane	1.71525	1.43935	1.25701	1.13096	1.14258	1.33703	18.328
24 Chloroform	2.72232	2.85341	2.37907	2.17612	2.14221	2.45462	13.068
25 Tetrahydrofuran	0.25075	0.23576	0.22386	0.19790	0.19824	0.22130	10.506
26 1,2-Dichloroethane	0.48417	0.47740	0.44051	0.36810	0.36601	0.42724	13.435
27 1,1,1-Trichloroethane	0.41173	0.43393	0.42822	0.39272	0.40874	0.41507	3.958

STL Burlington

INITIAL CALIBRATION DATA

Start Cal Date : 20-NOV-2000 07:52
End Cal Date : 20-NOV-2000 10:11
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/X.i/Xsvr.p/xckto15.b/ato15.m
Cal Date : 28-Nov-2000 12:07 bes
Curve Type : Average

Compound	0.50000 Level 1	5.000 Level 2	10.000 Level 3	20.000 Level 4	40.000 Level 5	___ RRF	% RSD	
28 Benzene	0.62408	0.61796	0.57165	0.50317	0.51552	0.56647	9.908	
29 Carbon Tetrachloride	0.06181	0.07701	0.07543	0.07265	0.05954	0.06929	11.628	
30 Cyclohexane	0.33322	0.30619	0.27261	0.24763	0.25507	0.28294	12.742	
32 1,2-Dichloropropane	0.22554	0.23259	0.20222	0.18734	0.18746	0.20703	10.218	
33 Bromodichloromethane	0.32179	0.35885	0.32944	0.34022	0.38780	0.34762	7.602	
34 Trichloroethene	0.33443	0.38503	0.31774	0.27130	0.25909	0.31352	16.196	
35 1,4-Dioxane	0.12436	0.14505	0.12995	0.11752	0.11936	0.12725	8.692	
36 2,2,4-Trimethylpentane	1.14283	1.07653	0.92715	0.82808	0.84242	0.96340	14.611	
37 n-Heptane	0.46299	0.43465	0.36845	0.33532	0.34403	0.38909	14.587	
38 cis-1,3-Dichloropropene	0.17660	0.20391	0.20698	0.21494	0.25007	0.21050	12.548	
39 Methyl Isobutyl Ketone	0.68128	0.61938	0.58909	0.53814	0.55947	0.59747	9.371	
40 trans-1,3-Dichloropropene	0.18065	0.15493	0.16343	0.17270	0.21379	0.17710	12.803	
41 1,1,2-Trichloroethane	0.21079	0.23650	0.19457	0.18076	0.17474	0.19947	12.494	
42 Toluene	0.42337	0.46335	0.40395	0.35289	0.34268	0.39725	12.613	
43 Methyl Butyl Ketone	0.67475	0.56903	0.53076	0.45631	0.46966	0.54010	16.309	
44 Dibromochloromethane	0.21177	0.23999	0.24855	0.24746	0.28461	0.24648	10.553	
45 1,2-Dibromoethane	0.75955	0.79881	0.74177	0.66404	0.64767	0.72237	8.914	
46 Tetrachloroethene	0.36344	0.42333	0.36395	0.30818	0.29243	0.35027	14.846	
48 Chlorobenzene	0.48801	0.60731	0.55258	0.48846	0.48105	0.52348	10.532	
49 Ethylbenzene	0.86883	1.08670	0.97330	0.87041	0.85430	0.93071	10.670	
50 Xylene (m,p)	0.29116	0.35483	0.33184	0.29471	0.29141	0.31279	9.296	
51 Bromoform	0.23887	0.18486	0.20626	0.21457	0.26142	0.22120	13.406	
52 Styrene	0.32773	0.44900	0.45399	0.41068	0.42079	0.41244	12.311	
53 1,1,2,2-Tetrachloroethane	0.36244	0.48812	0.46768	0.43451	0.45027	0.44061	10.903	
54 Xylene (o)	0.24738	0.34974	0.33779	0.28088	0.28464	0.30009	14.209	
55 2-Chlorotoluene	0.95756	0.76725	0.78808	0.65746	0.64748	0.76357	16.434	
56 4-Ethyltoluene	1.17010	0.91158	0.91223	0.76156	0.77275	0.90564	18.180	
57 1,3,5-Trimethylbenzene	0.53263	0.90430	0.89234	0.75958	0.73046	0.76386	19.727	
58 1,2,4-Trimethylbenzene	0.49441	0.87334	0.86361	0.72702	0.71083	0.73384	20.912	
59 1,3-Dichlorobenzene	0.30334	0.54650	0.55476	0.53204	0.47769	0.48286	21.694	
60 1,4-Dichlorobenzene	0.28450	0.51103	0.53026	0.51146	0.46613	0.46068	21.983	
61 1,2-Dichlorobenzene	0.22224	0.50179	0.52046	0.50093	0.44505	0.43809	28.288	
62 1,2,4-Trichlorobenzene	0.04922	0.26787	0.32326	0.31624	0.27581	0.24648	45.808	<-

STL Burlington

INITIAL CALIBRATION DATA

Start Cal Date : 20-NOV-2000 07:52
End Cal Date : 20-NOV-2000 10:11
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/X.i/Xsvr.p/xckto15.b/ato15.m
Cal Date : 28-Nov-2000 12:07 bes
Curve Type : Average

Compound	0.50000 Level 1	5.000 Level 2	10.000 Level 3	20.000 Level 4	40.000 Level 5	___ RRF	% RSD	
63 Hexachlorobutadiene	0.07823	0.33158	0.31796	0.30162	0.26164	0.25820	40.269	<-

FORM 7
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 80694

Instrument ID: X Calibration Date: 11/21/00 Time: 0751

Lab File ID: CK010A Init. Calib. Date(s): 11/20/00 11/20/00

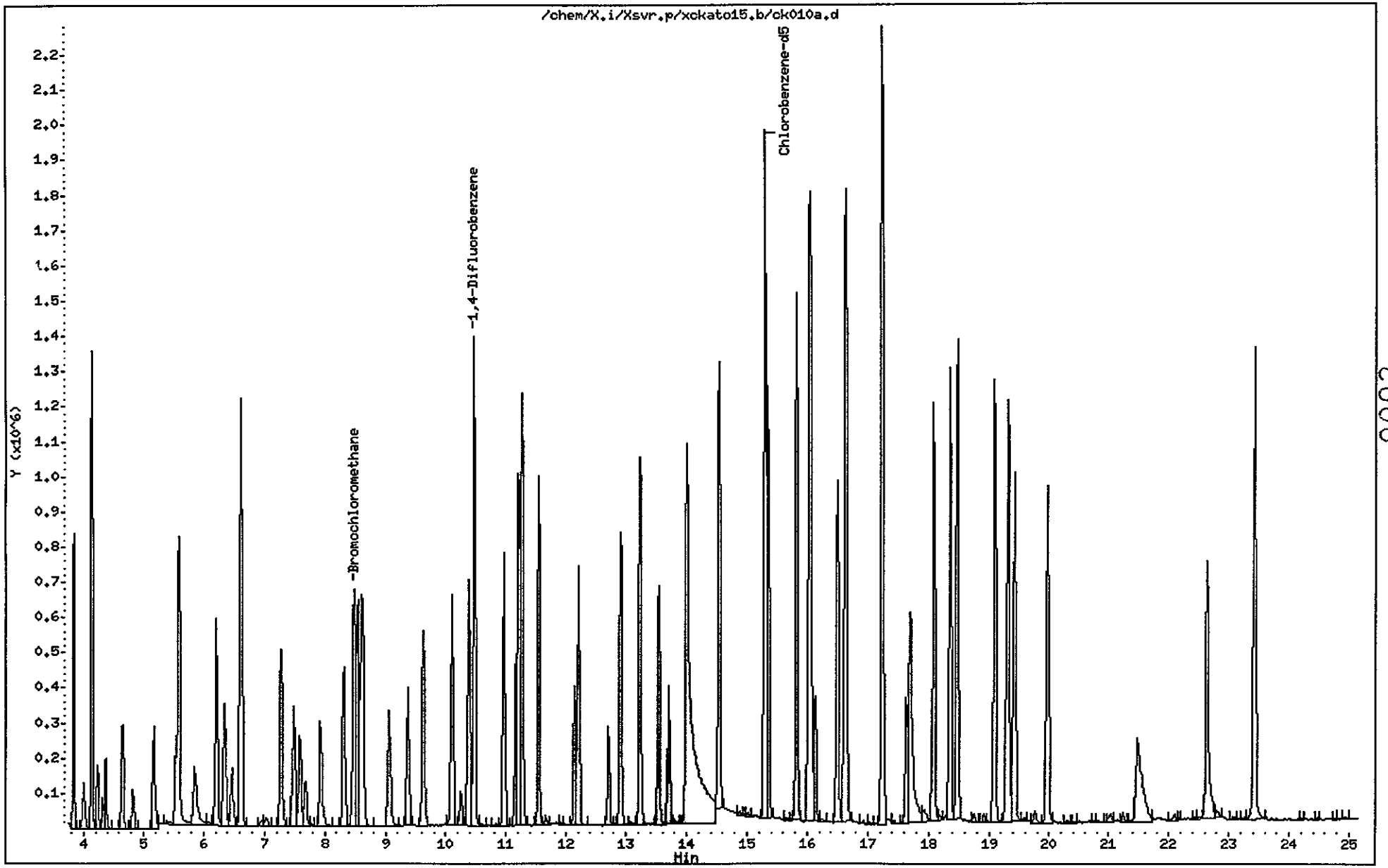
Heated Purge: (Y/N) N Init. Calib. Times: 0752 1011

GC Column: DB-1 ID: 0.35 (mm)

COMPOUND	$\overline{RRF}$	RRF10	MIN RRF	%D	MAX %D
Chloromethane	0.763	0.758	0.01	0.6	30.0
Vinyl Chloride	0.861	0.925	0.01	7.4	30.0
Bromomethane	0.844	1.004	0.01	19.0	30.0
Chloroethane	0.429	0.465	0.01	8.4	30.0
Trichlorofluoromethane	3.275	3.071	0.01	6.2	30.0
Methylene Chloride	1.282	1.207	0.01	5.8	30.0
1,1-Dichloroethane	1.994	1.982	0.1	0.6	30.0
cis-1,2-Dichloroethene	1.658	1.741	0.01	5.0	30.0
Chloroform	2.454	2.372	0.01	3.3	30.0
1,1,1-Trichloroethane	0.415	0.376	0.01	9.4	30.0
Carbon Tetrachloride	0.069	0.062	0.01	10.1	30.0
Benzene	0.567	0.587	0.01	3.5	30.0
1,2-Dichloroethane	0.427	0.385	0.01	9.8	30.0
Trichloroethene	0.313	0.314	0.01	0.3	30.0
1,2-Dichloropropane	0.207	0.212	0.01	2.4	30.0
cis-1,3-Dichloropropene	0.211	0.205	0.01	2.8	30.0
Toluene	0.397	0.417	0.01	5.0	30.0
trans-1,3-Dichloropropene	0.177	0.150	0.01	15.2	30.0
1,1,2-Trichloroethane	0.199	0.199	0.01	0.0	30.0
Tetrachloroethene	0.350	0.342	0.01	2.3	30.0
Chlorobenzene	0.523	0.590	0.3	12.8	30.0
Ethylbenzene	0.931	1.047	0.01	12.4	30.0
Xylene (m,p)	0.313	0.346	0.01	10.5	30.0
Styrene	0.413	0.448	0.01	8.5	30.0
Xylene (o)	0.300	0.332	0.01	10.7	30.0
1,1,2,2-Tetrachloroethane	0.440	0.479	0.01	8.9	30.0
1,3-Dichlorobenzene	0.483	0.487	0.01	0.8	30.0
1,4-Dichlorobenzene	0.460	0.464	0.01	0.9	30.0
1,2-Dichlorobenzene	0.438	0.456	0.01	4.1	30.0

Data File: /chem/X.i/Xsvr.p/xckato15.b/ck010a.d
Date : 21-NOV-2000 07:51
Client ID: ASTD010
Sample Info: ASTD010;ASTD010
Purge Volume: 200.0
Column phase: DB-1

Instrument: X.i
Operator: GMM
Column diameter: 0.35



STL Burlington

AIR TOXICS QUANTITATION REPORT

Data file : /chem/X.i/Xsvr.p/xckato15.b/ck010a.d
Lab Smp Id: ASTD010 Client Smp ID: ASTD010
Inj Date : 21-NOV-2000 07:51
Operator : GMM Inst ID: X.i
Smp Info : ASTD010;ASTD010
Misc Info :
Comment :
Method : /chem/X.i/Xsvr.p/xckato15.b/ato15.m
Meth Date : 28-Nov-2000 14:00 mim Quant Type: ISTD
Cal Date : 20-NOV-2000 10:11 Cal File: ck040.d
Als bottle: 3 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ACCANA2.sub
Target Version: 3.50
Processing Host: chemsvr4

Concentration Formula: Amt * DF * X* Uf/Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
X	200.00000	method volume factor
Uf	1.00000	ng unit correction factor
Vo	200.00000	Sample Volume purged (mL)

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	AMOUNTS ON-COL (ppbv)
2	Chloromethane	50	3.993	3.986	(0.470)	189969	10.0000	9.9
4	Vinyl Chloride	62	4.224	4.217	(0.498)	231835	10.0000	11
6	Bromomethane	94	4.656	4.649	(0.548)	251690	10.0000	12
7	Chloroethane	64	4.829	4.822	(0.569)	116639	10.0000	11
10	Trichlorofluoromethane	101	5.590	5.574	(0.659)	769587	10.0000	9.4
13	Methylene Chloride	49	6.349	6.333	(0.748)	302380	10.0000	9.4
18	1,1-Dichloroethane	63	7.487	7.471	(0.882)	496634	10.0000	9.9
21	cis-1,2-Dichloroethene	61	8.322	8.306	(0.980)	436232	10.0000	10
* 22	Bromochloromethane	128	8.489	8.473	(1.000)	250603	10.0000	
24	Chloroform	83	8.626	8.610	(1.016)	594392	10.0000	9.7
26	1,2-Dichloroethane	62	9.369	9.353	(0.894)	494844	10.0000	9.0
27	1,1,1-Trichloroethane	97	9.627	9.611	(0.919)	482852	10.0000	9.1
28	Benzene	78	10 113	10.097	(0.965)	753659	10.0000	10
29	Carbon Tetrachloride	117	10 249	10.233	(0.978)	79785	10.0000	9.0

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	AMOUNTS ON-COL (ppbv)
*	31 1,4-Difluorobenzene	114	10.477	10.461	(1.000)	1283893	10.0000	
	32 1,2-Dichloropropane	63	10.963	10.947	(1.046)	271950	10.0000	10
	34 Trichloroethene	95	11.205	11.189	(1.070)	403682	10.0000	10
	38 cis-1,3-Dichloropropene	75	12.131	12.115	(1.158)	263613	10.0000	9.8
	40 trans-1,3-Dichloropropene	75	12.708	12.692	(1.213)	192572	10.0000	8.5
	41 1,1,2-Trichloroethane	83	12.905	12.889	(0.843)	282215	10.0000	10
	42 Toluene	92	13.224	13.208	(0.864)	592507	10.0000	10
	46 Tetrachloroethene	166	14.544	14.513	(0.950)	485819	10.0000	9.8
*	47 Chlorobenzene-d5	117	15.303	15.272	(1.000)	1419731	10.0000	
	48 Chlorobenzene	112	15.348	15.332	(1.003)	837826	10.0000	11
	49 Ethylbenzene	91	15.819	15.803	(1.034)	1486580	10.0000	11
	50 Xylene (m,p)	106	16.046	16.015	(1.049)	982974	20.0000	22
	52 Styrene	104	16.502	16.470	(1.078)	636782	10.0000	11
	53 1,1,2,2-Tetrachloroethane	83	16.623	16.592	(1.086)	680489	10.0000	11
	54 Xylene (o)	106	16.638	16.622	(1.087)	471224	10.0000	11
	59 1,3-Dichlorobenzene	146	19.324	19.293	(1.263)	691525	10.0000	10
	60 1,4-Dichlorobenzene	146	19.431	19.399	(1.270)	659578	10.0000	10
	61 1,2-Dichlorobenzene	146	19.977	19.946	(1.305)	647038	10.0000	10

STL Burlington

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: X.i
Lab File ID: ck010a.d
Analysis Type: AIR
Lab Sample ID: ASTD010
Method: /chem/X.i/Xsvr.p/xckato15.b/ato15.m

Injection Date: 21-NOV-2000 07:51
Init. Cal. Date(s): 20-NOV-2000 20-NOV-2000
Init. Cal. Times: 07:52 10:11
Quant Type: ISTD

COMPOUND	RRF / AMOUNT	RF10	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
2 Chloromethane	0.76303	0.75805	0.010	0.65318	30.00000	Averaged
4 Vinyl Chloride	0.86137	0.92511	0.010	-7.40005	30.00000	Averaged
6 Bromomethane	0.84405	1.00434	0.010	-18.99013	30.00000	Averaged
7 Chloroethane	0.42954	0.46543	0.010	-8.35580	30.00000	Averaged
10 Trichlorofluoromethane	3.27563	3.07094	0.010	6.24873	30.00000	Averaged
13 Methylene Chloride	1.28183	1.20661	0.010	5.86818	30.00000	Averaged
18 1,1-Dichloroethane	1.99371	1.98176	0.100	0.59983	30.00000	Averaged
21 cis-1,2-Dichloroethene	1.65789	1.74073	0.010	-4.99684	30.00000	Averaged
24 Chloroform	2.45462	2.37185	0.010	3.37228	30.00000	Averaged
26 1,2-Dichloroethane	0.42724	0.38542	0.010	9.78667	30.00000	Averaged
27 1,1,1-Trichloroethane	0.41507	0.37608	0.010	9.39203	30.00000	Averaged
28 Benzene	0.56647	0.58701	0.010	-3.62531	30.00000	Averaged
29 Carbon Tetrachloride	0.06929	0.06214	0.010	10.31046	30.00000	Averaged
32 1,2-Dichloropropane	0.20703	0.21182	0.010	-2.31171	30.00000	Averaged
34 Trichloroethene	0.31352	0.31442	0.010	-0.28827	30.00000	Averaged
38 cis-1,3-Dichloropropene	0.21050	0.20532	0.010	2.45937	30.00000	Averaged
40 trans-1,3-Dichloropropene	0.17710	0.14999	0.010	15.30755	30.00000	Averaged
41 1,1,2-Trichloroethane	0.19947	0.19878	0.010	0.34716	30.00000	Averaged
42 Toluene	0.39725	0.41734	0.010	-5.05706	30.00000	Averaged
46 Tetrachloroethene	0.35027	0.34219	0.010	2.30557	30.00000	Averaged
48 Chlorobenzene	0.52348	0.59013	0.300	-12.73154	30.00000	Averaged
49 Ethylbenzene	0.93071	1.04709	0.010	-12.50435	30.00000	Averaged
50 Xylene (m,p)	0.31279	0.34618	0.010	-10.67594	30.00000	Averaged
52 Styrene	0.41244	0.44852	0.010	-8.74885	30.00000	Averaged
53 1,1,2,2-Tetrachloroethane	0.44061	0.47931	0.010	-8.78402	30.00000	Averaged
54 Xylene (o)	0.30009	0.33191	0.010	-10.60531	30.00000	Averaged
59 1,3-Dichlorobenzene	0.48286	0.48708	0.010	-0.87334	30.00000	Averaged
60 1,4-Dichlorobenzene	0.46068	0.46458	0.010	-0.84750	30.00000	Averaged
61 1,2-Dichlorobenzene	0.43809	0.45575	0.010	-4.02946	30.00000	Averaged

SEVERN TRENT SERVICES

Severn Trent Laboratories, Inc.

METHOD TO-14A
VOLATILE ORGANIC ANALYSIS

RAW QC DATA

Data File: /chem/X.i/Xsvr.p/xckto15.b/ck002p.d

Date : 20-NOV-2000 07:24

Client ID: XBFB001

Instrument: X.i

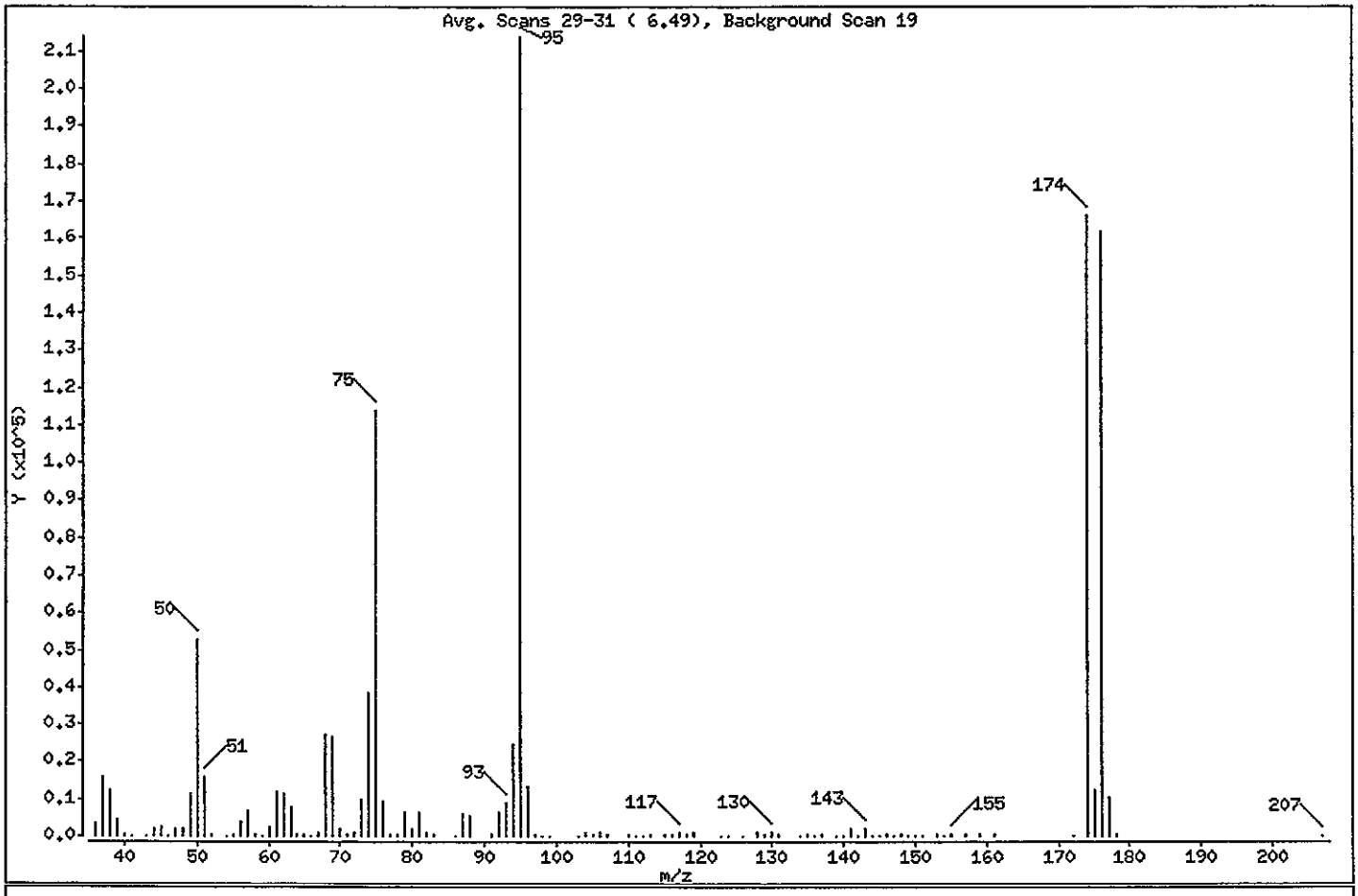
Sample Info: XBFB001

Operator: GMM

Column phase: DB-1

Column diameter: 0.32

\$ 1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	8.00 - 40.00% of mass 95	24.62
75	30.00 - 66.00% of mass 95	53.26
96	5.00 - 9.00% of mass 95	6.22
173	Less than 2.00% of mass 174	0.00 (0.00)
174	50.00 - 120.00% of mass 95	77.68
175	4.00 - 9.00% of mass 174	5.71 (7.34)
176	93.00 - 101.00% of mass 174	75.50 (97.20)
177	5.00 - 9.00% of mass 176	4.79 (6.34)

Data File: /chem/X.i/Xsvr.p/xokto15.b/ck002p.d

Date : 20-NOV-2000 07:24

Client ID: XBFB001

Instrument: X.i

Sample Info: XBFB001

Operator: CHM

Column phase: DB-1

Column diameter: 0.32

Data File: ck002p.d

Spectrum: Avg. Scans 29-31 (6.49), Background Scan 19

Location of Maximum: 95.00

Number of points: 109

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	3301	66.00	137	98.00	53	140.00	72
37.00	15614	67.00	845	99.00	53	141.00	1953
38.00	12392	68.00	27096	103.00	170	142.00	222
39.00	4442	69.00	26600	104.00	918	143.00	2134
40.00	591	70.00	1800	105.00	265	144.00	62
41.00	17	71.00	320	106.00	912	145.00	155
43.00	173	72.00	1201	107.00	272	146.00	418
44.00	1914	73.00	9984	110.00	300	147.00	213
45.00	2677	74.00	38680	111.00	58	148.00	583
46.00	71	75.00	113952	112.00	92	149.00	229
47.00	2102	76.00	9336	113.00	274	150.00	232
48.00	1859	77.00	626	115.00	342	151.00	64
49.00	11525	78.00	737	116.00	682	153.00	254
50.00	52680	79.00	6485	117.00	1203	154.00	50
51.00	15698	80.00	1744	118.00	737	155.00	527
52.00	653	81.00	6330	119.00	818	157.00	425
54.00	83	82.00	1152	123.00	52	159.00	276
55.00	718	83.00	307	124.00	196	161.00	319
56.00	4133	86.00	200	126.00	51	172.00	183
57.00	7127	87.00	5769	128.00	747	174.00	166144
58.00	380	88.00	5260	129.00	377	175.00	12206
59.00	185	91.00	702	130.00	824	176.00	161536
60.00	2658	92.00	6234	131.00	299	177.00	10249
61.00	11696	93.00	9050	134.00	59	178.00	341
62.00	11150	94.00	24536	135.00	463	207.00	57
63.00	7998	95.00	213888	136.00	168		
64.00	731	96.00	13311	137.00	266		
65.00	255	97.00	395	139.00	131		

Data File: /chem/X.i/Xsvr.p/xckto15.b/ck002p.d

Date : 20-NOV-2000 07:24

Client ID: XBFB001

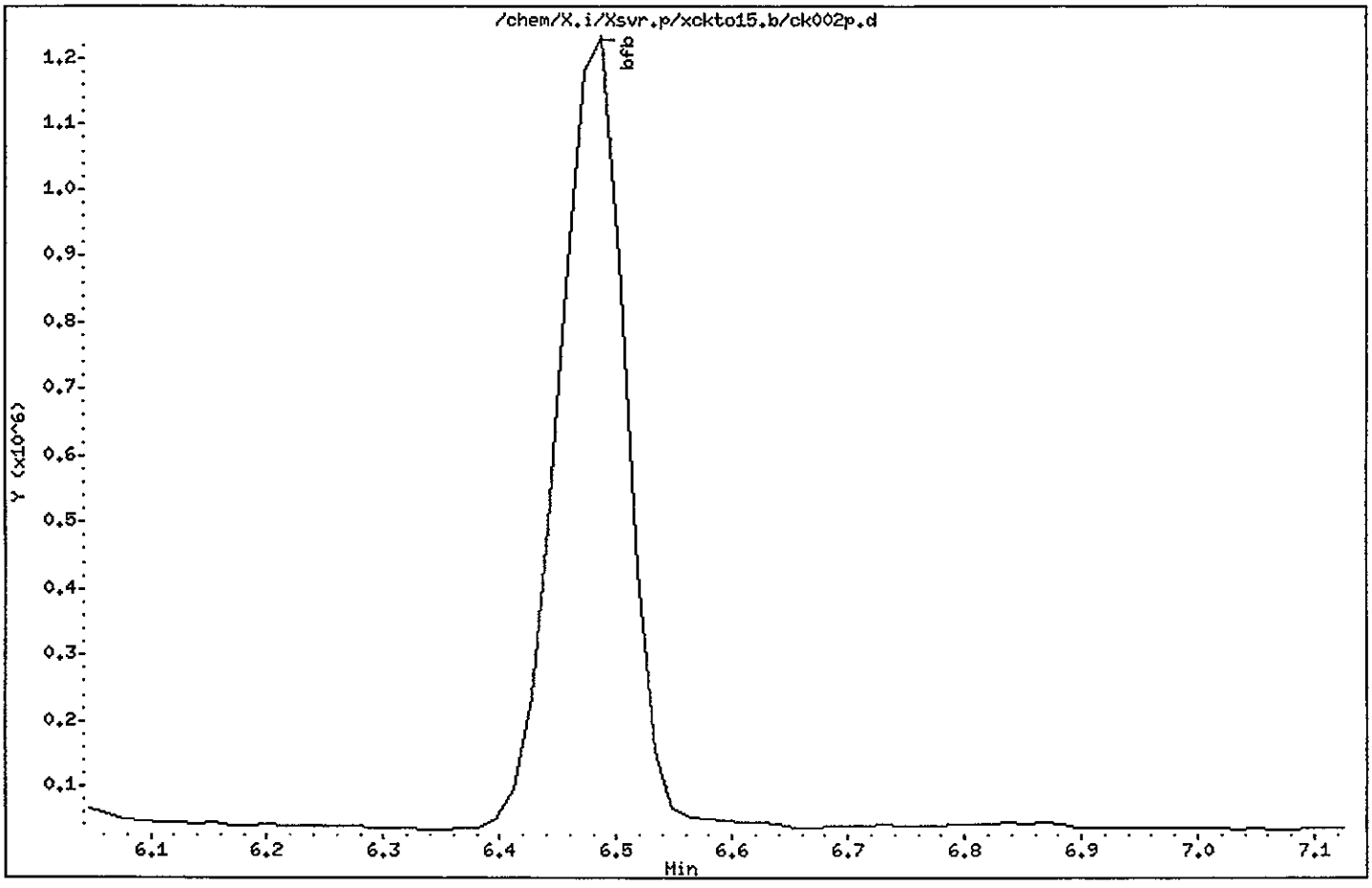
Instrument: X.i

Sample Info: XBFB001

Operator: GMM

Column phase: DB-1

Column diameter: 0.32



Data File: /chem/X.i/Xsvr.p/xckato15.b/ck003p.d

Date : 21-NOV-2000 07:25

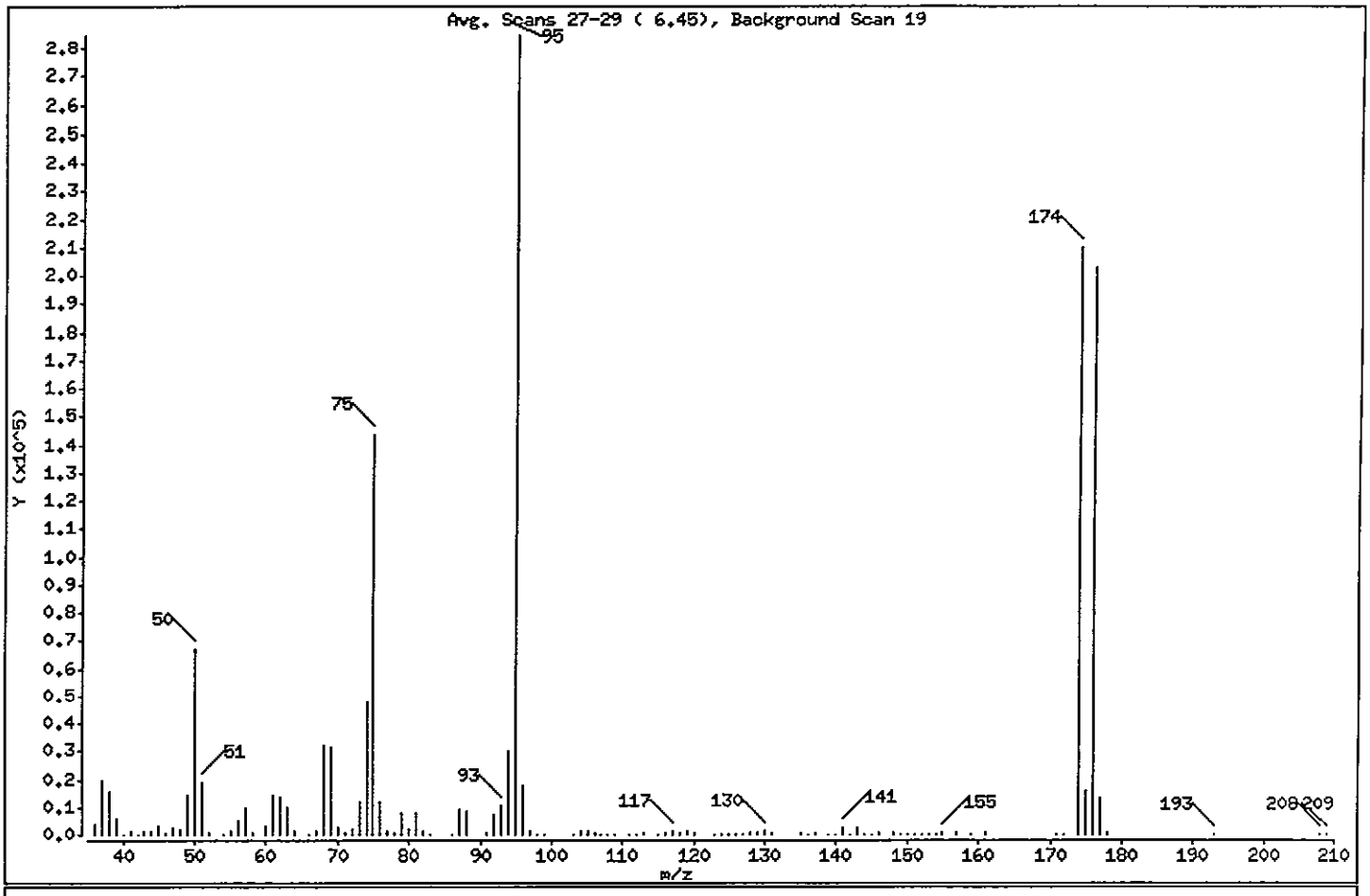
Client ID: XBFB003 Instrument: X.i

Sample Info: XBFB003

Operator: GMM

Column phase: DB-1 Column diameter: 0.32

$ 1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	8.00 - 40.00% of mass 95	23.61
75	30.00 - 66.00% of mass 95	50.48
96	5.00 - 9.00% of mass 95	6.32
173	Less than 2.00% of mass 174	0.00 (0.00)
174	50.00 - 120.00% of mass 95	73.85
175	4.00 - 9.00% of mass 174	5.49 (7.44)
176	93.00 - 101.00% of mass 174	71.31 (96.56)
177	5.00 - 9.00% of mass 176	4.49 (6.30)

Data File: /chem/X.i/Xsvr.p/xckato15.b/ck003p.d

Date : 21-NOV-2000 07:25

Client ID: XBFB003 Instrument: X.i

Sample Info: XBFB003

Operator: GMH

Column phase: DB-1 Column diameter: 0.32

Data File: ck003p.d

Spectrum: Avg. Scans 27-29 (6.45), Background Scan 19

Location of Maximum: 95.00

Number of points: 114

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	3867	68.00	32368	104.00	1052	141.00	2603
37.00	19464	69.00	31280	105.00	1404	142.00	322
38.00	15703	70.00	2382	106.00	942	143.00	2413
39.00	6008	71.00	974	107.00	279	144.00	120
40.00	29	72.00	1754	108.00	71	145.00	225
41.00	1139	73.00	11965	109.00	210	146.00	364
42.00	231	74.00	47736	111.00	147	148.00	619
43.00	1162	75.00	143616	112.00	305	149.00	232
44.00	1481	76.00	11525	113.00	507	150.00	275
45.00	3169	77.00	1263	115.00	320	151.00	62
46.00	353	78.00	611	116.00	901	152.00	53
47.00	2670	79.00	7603	117.00	1265	153.00	144
48.00	2206	80.00	2041	118.00	847	154.00	121
49.00	14630	81.00	7601	119.00	988	155.00	523
50.00	67208	82.00	1345	120.00	409	157.00	499
51.00	19184	83.00	225	123.00	118	159.00	322
52.00	853	86.00	238	124.00	153	161.00	383
54.00	320	87.00	8885	125.00	312	171.00	65
55.00	1571	88.00	8624	126.00	276	172.00	163
56.00	5100	91.00	617	127.00	128	174.00	210176
57.00	9774	92.00	7326	128.00	903	175.00	15635
58.00	337	93.00	10735	129.00	471	176.00	202944
60.00	3085	94.00	30200	130.00	992	177.00	12790
61.00	14511	95.00	284608	131.00	330	178.00	392
62.00	13715	96.00	17992	135.00	497	193.00	138
63.00	9799	97.00	1195	136.00	58	208.00	60
64.00	1105	98.00	48	137.00	386	209.00	56
66.00	131	99.00	66	139.00	5		
67.00	1143	103.00	135	140.00	186		

Data File: /chem/X.i/Xsvr.p/xckato15.b/ck003p.d

Date : 21-NOV-2000 07:25

Client ID: XBFB003

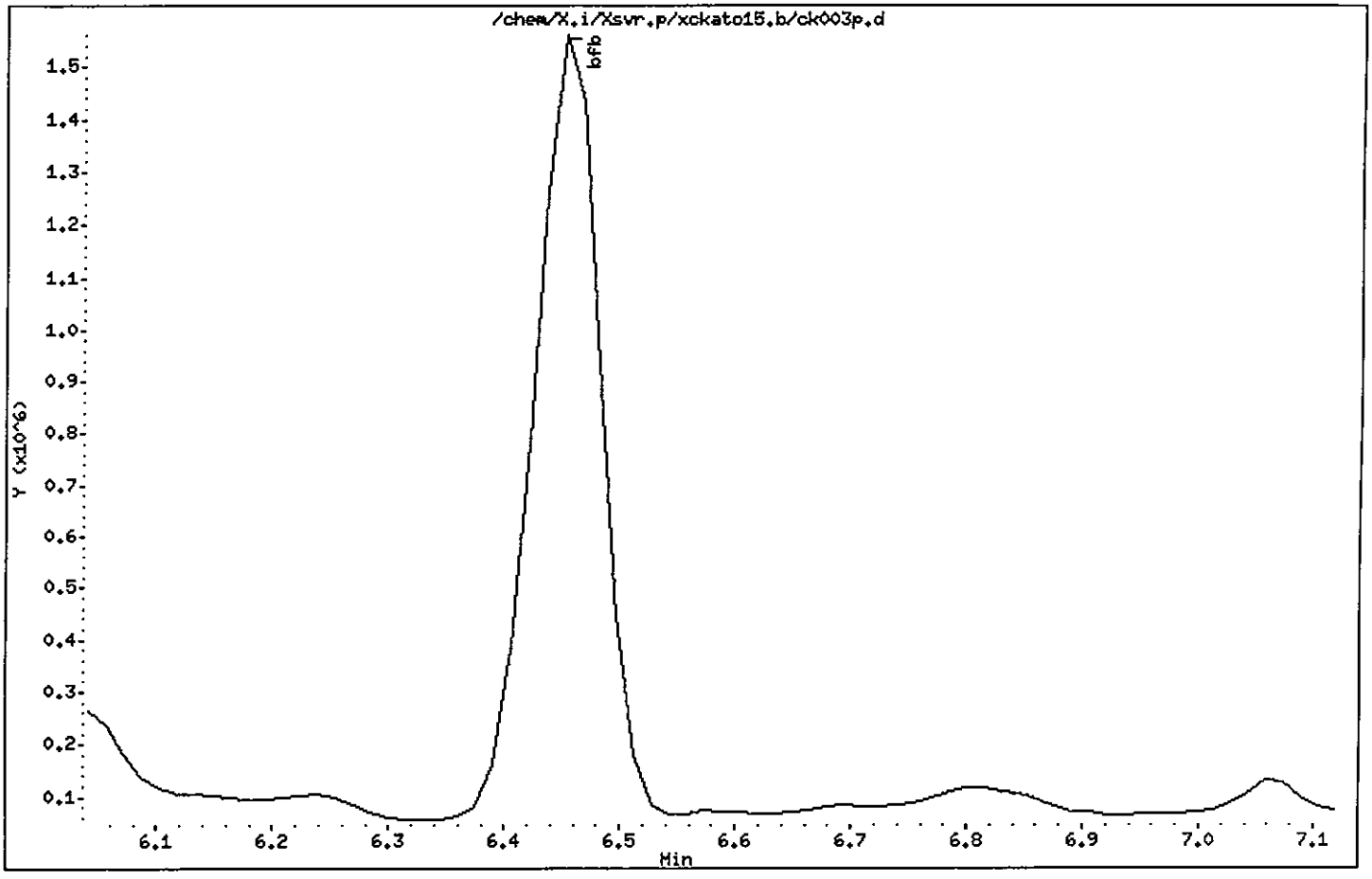
Instrument: X.i

Sample Info: XBFB003

Operator: CMH

Column phase: DB-1

Column diameter: 0.32



FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

STLVT SAMPLE NO.

ABLKG7

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 80694

Matrix: (soil/water) AIR Lab Sample ID: ABLKG7

Sample wt/vol: 200 (g/mL) ML Lab File ID: CKB001A

Level: (low/med) LOW Date Received:

% Moisture: not dec. _____ Date Analyzed: 11/21/00

GC Column: DB-1 ID: 0.35 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) PPBV	Q
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl Chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-09-2	Methylene Chloride	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
56-23-5	Carbon Tetrachloride	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-88-3	Toluene	0.50	U
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
1330-20-7	Xylene (m,p)	0.50	U
100-42-5	Styrene	0.50	U
95-47-6	Xylene (o)	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

STLVT SAMPLE NO.

ABLKG7

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 80694

Matrix: (soil/water) AIR Lab Sample ID: ABLKG7

Sample wt/vol: 200 (g/mL) ML Lab File ID: CKB001A

Level: (low/med) LOW Date Received:

% Moisture: not dec. _____ Date Analyzed: 11/21/00

GC Column: DB-1 ID: 0.35 (mm) Dilution Factor: 1.0

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

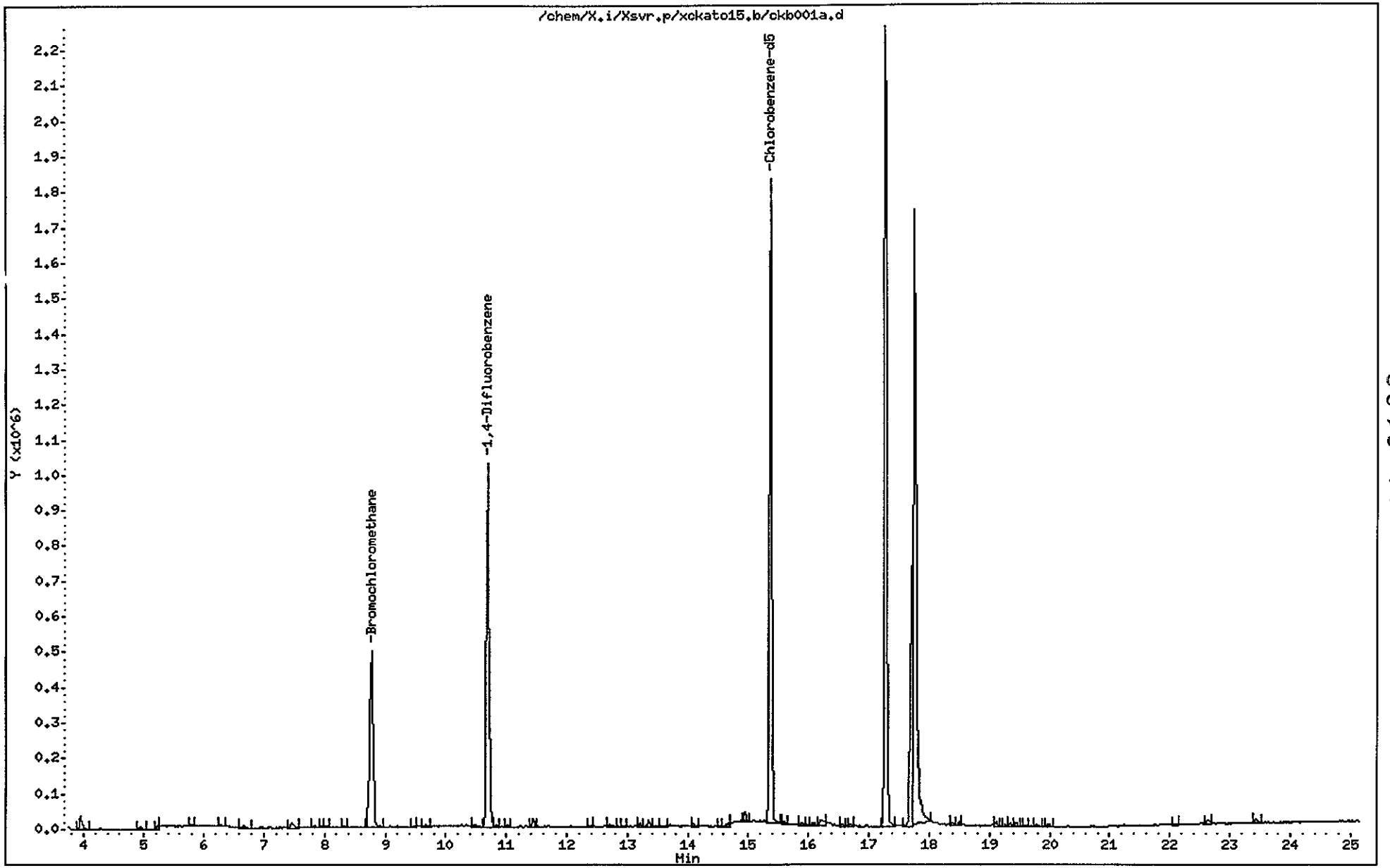
Number TICs found: 2

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

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		UNKNOWN	17.72	5.0	J
2.		UNKNOWN	17.76	13	J
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.					

Data File: /chem/X.i/Xsvr.p/xckato15.b/ckb001a.d
Date : 21-NOV-2000 09:58
Client ID: ABLKG7
Sample Info: ABLKG7;ABLKG7;;1121G7
Purge Volume: 200.0
Column phase: DB-1

Instrument: X.i
Operator: GMM
Column diameter: 0.35



STL Burlington

AIR TOXICS QUANTITATION REPORT

Data file : /chem/X.i/Xsvr.p/xckato15.b/ckb001a.d
Lab Smp Id: ABLKG7 Client Smp ID: ABLKG7
Inj Date : 21-NOV-2000 09:58
Operator : GMM Inst ID: X.i
Smp Info : ABLKG7;ABLKG7;;1121G7
Misc Info :
Comment :
Method : /chem/X.i/Xsvr.p/xckato15.b/ato15.m
Meth Date : 28-Nov-2000 14:00 mim Quant Type: ISTD
Cal Date : 20-NOV-2000 10:11 Cal File: ck040.d
Als bottle: 2 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ACCANA2.sub
Target Version: 3.50
Processing Host: chemsvr4

Concentration Formula: Amt * DF * X* Uf/Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
X	200.00000	method volume factor
Uf	1.00000	ng unit correction factor
Vo	200.00000	Sample Volume purged (mL)

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)
2	Chloromethane	50	Compound Not Detected.					
4	Vinyl Chloride	62	Compound Not Detected.					
6	Bromomethane	94	Compound Not Detected.					
7	Chloroethane	64	Compound Not Detected.					
10	Trichlorofluoromethane	101	Compound Not Detected.					
13	Methylene Chloride	49	Compound Not Detected.					
18	1,1-Dichloroethane	63	Compound Not Detected.					
21	cis-1,2-Dichloroethene	61	Compound Not Detected.					
* 22	Bromochloromethane	128	8.777	8.473	(1.000)	249968	10.0000	
24	Chloroform	83	Compound Not Detected.					
26	1,2-Dichloroethane	62	Compound Not Detected.					
27	1,1,1-Trichloroethane	97	Compound Not Detected.					
28	Benzene	78	Compound Not Detected.					
29	Carbon Tetrachloride	117	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	FINAL (ppbv)
*	31 1,4-Difluorobenzene	114	10.689	10.461	(1.000)	1235493	10.0000	
	32 1,2-Dichloropropane	63	Compound Not Detected.					
	34 Trichloroethene	95	Compound Not Detected.					
	38 cis-1,3-Dichloropropene	75	Compound Not Detected.					
	40 trans-1,3-Dichloropropene	75	Compound Not Detected.					
	41 1,1,2-Trichloroethane	83	Compound Not Detected.					
	42 Toluene	92	Compound Not Detected.					
	46 Tetrachloroethene	166	Compound Not Detected.					
*	47 Chlorobenzene-d5	117	15.378	15.272	(1.000)	1322404	10.0000	
	48 Chlorobenzene	112	Compound Not Detected.					
	49 Ethylbenzene	91	Compound Not Detected.					
	50 Xylene (m,p)	106	Compound Not Detected.					
	52 Styrene	104	Compound Not Detected.					
	53 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					
	54 Xylene (o)	106	Compound Not Detected.					
	59 1,3-Dichlorobenzene	146	Compound Not Detected.					
	60 1,4-Dichlorobenzene	146	Compound Not Detected.					
	61 1,2-Dichlorobenzene	146	Compound Not Detected.					

STL Burlington

AIR TOXICS QUANTITATION REPORT

Data file : /chem/X.i/Xsvr.p/xckato15.b/ckb001a.d
Lab Smp Id: ABLKG7 Client Smp ID: ABLKG7
Inj Date : 21-NOV-2000 09:58
Operator : GMM Inst ID: X.i
Smp Info : ABLKG7;ABLKG7;;1121G7
Misc Info :
Comment :
Method : /chem/X.i/Xsvr.p/xckato15.b/ato15.m
Meth Date : 28-Nov-2000 13:48 mim Quant Type: ISTD
Cal Date : 20-NOV-2000 10:11 Cal File: ck040.d
Als bottle: 2 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ACCANA.sub
Target Version: 3.50
Processing Host: chemsvr4

Concentration Formula: Amt * DF * X* Uf/Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
X	200.00000	method volume factor
Uf	1.00000	ng unit correction factor
Vo	200.00000	Sample Volume purged (mL)

Cpnd Variable Local Compound Variable

ISTD	RT	AREA	AMOUNT
* 47 Chlorobenzene-d5	15.378	4626411	10.000

		CONCENTRATIONS			QUANT		
RT	AREA	ON-COL(ppbv)	FINAL(ppbv)	QUAL	LIBRARY	LIB ENTRY	CPND #
Unknown				CAS #:			
17.715	2295935	4.96266883	5.0	0		0	47
Unknown				CAS #:			
17.761	5853441	12.6522260	13	0		0	47

Data File: /chem/X.i/Xsvr.p/xckato15.b/ckb001a.d

Date : 21-NOV-2000 09:58

Client ID: ABLKG7

Instrument: X.i

Sample Info: ABLKG7;ABLKG7;;1121G7

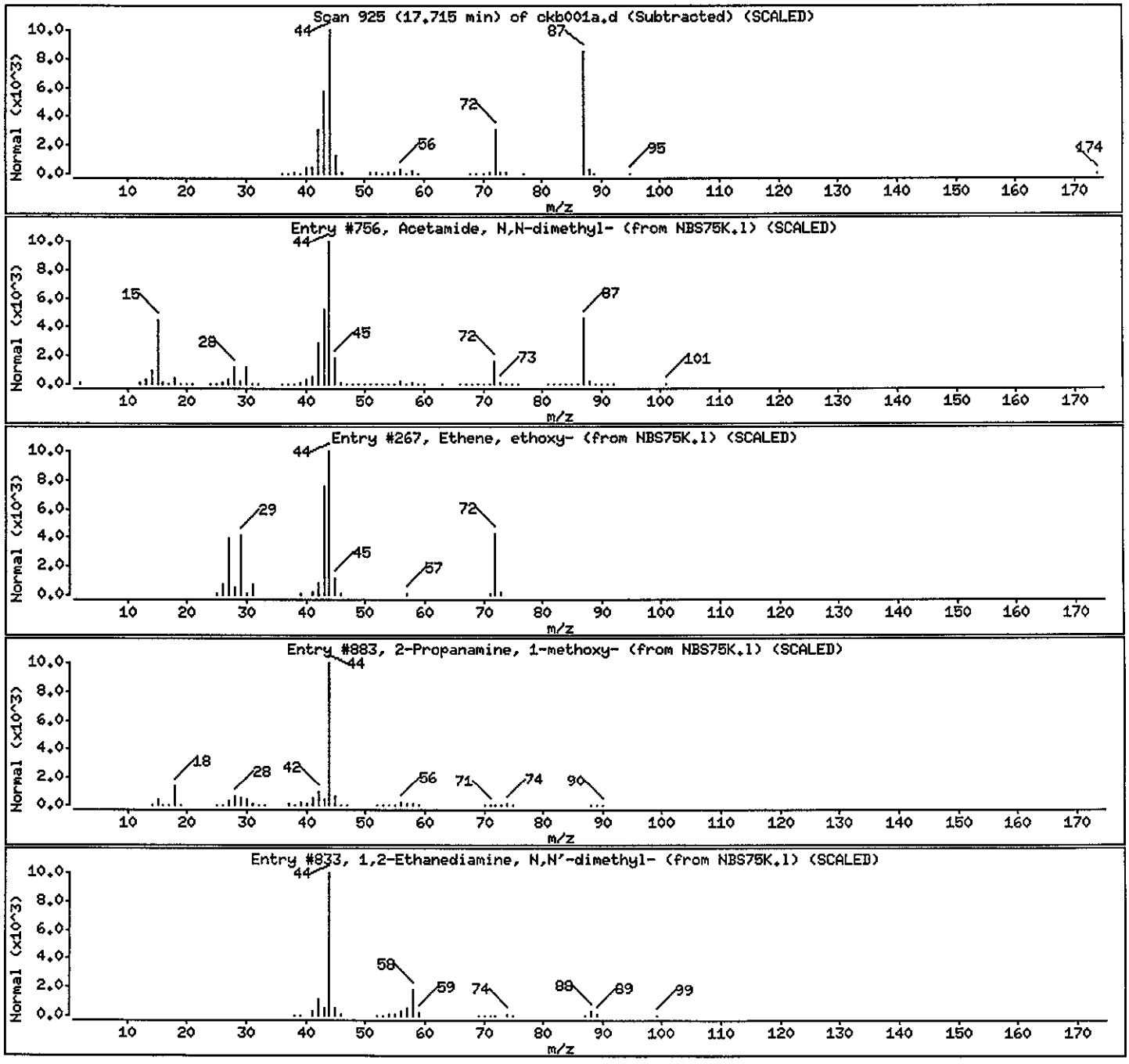
Purge Volume: 200.0

Operator: GHH

Column phase: DB-1

Column diameter: 0.35

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Acetamide, N,N-dimethyl-	127-19-5	NBS75K.l	756	78	C4H9NO	87
Ethene, ethoxy-	109-92-2	NBS75K.l	267	43	C4H8O	72
2-Propanamine, 1-methoxy-	37143-54-7	NBS75K.l	883	35	C4H11NO	89
1,2-Ethanediamine, N,N'-dimethyl-	110-70-3	NBS75K.l	833	25	C4H12N2	88



Data File: /chem/X.i/Xsvr.p/xckato15.b/ckb001a.d

Date : 21-NOV-2000 09:58

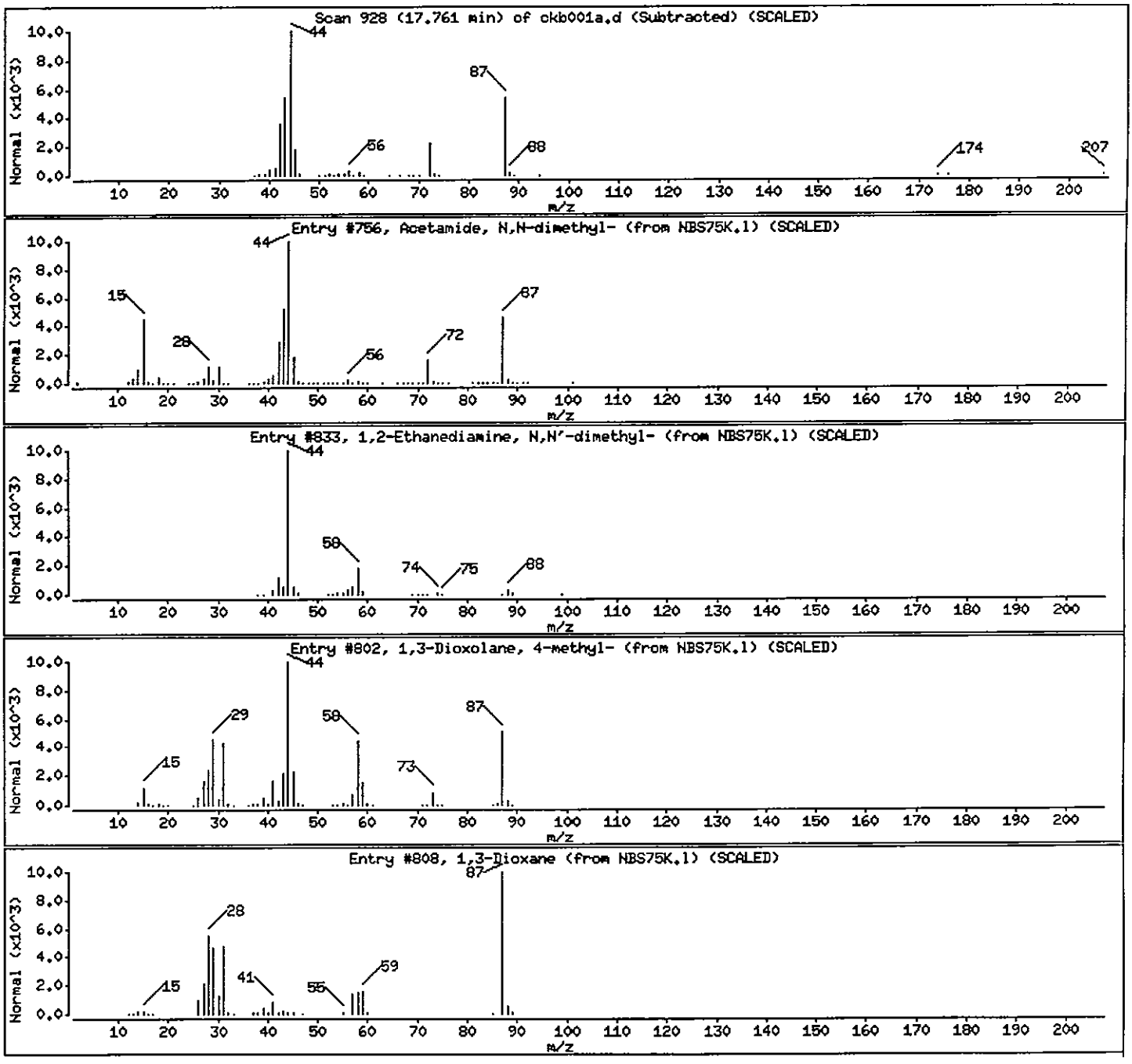
Client ID: ABLKG7 Instrument: X.i

Sample Info: ABLKG7;ABLKG7;;1121G7

Purge Volume: 200.0 Operator: GHH

Column phase: DB-1 Column diameter: 0.35

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Acetamide, N,N-dimethyl-	127-19-5	NBS75K.l	756	91	C4H9NO	87
1,2-Ethanediamine, N,N'-dimethyl-	110-70-3	NBS75K.l	833	37	C4H12N2	88
1,3-Dioxolane, 4-methyl-	1072-47-5	NBS75K.l	802	36	C4H8O2	88
1,3-Dioxane	505-22-6	NBS75K.l	808	9	C4H8O2	88



FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

STLVT SAMPLE NO.

H6_ICVLCS

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 80694

Matrix: (soil/water) AIR Lab Sample ID: H6_ICVLCS

Sample wt/vol: 200 (g/mL) ML Lab File ID: CK010Q

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

% Moisture: not dec. _____ Date Analyzed: 11/20/00

GC Column: DB-1 ID: 0.35 (mm) Dilution Factor: 1.0

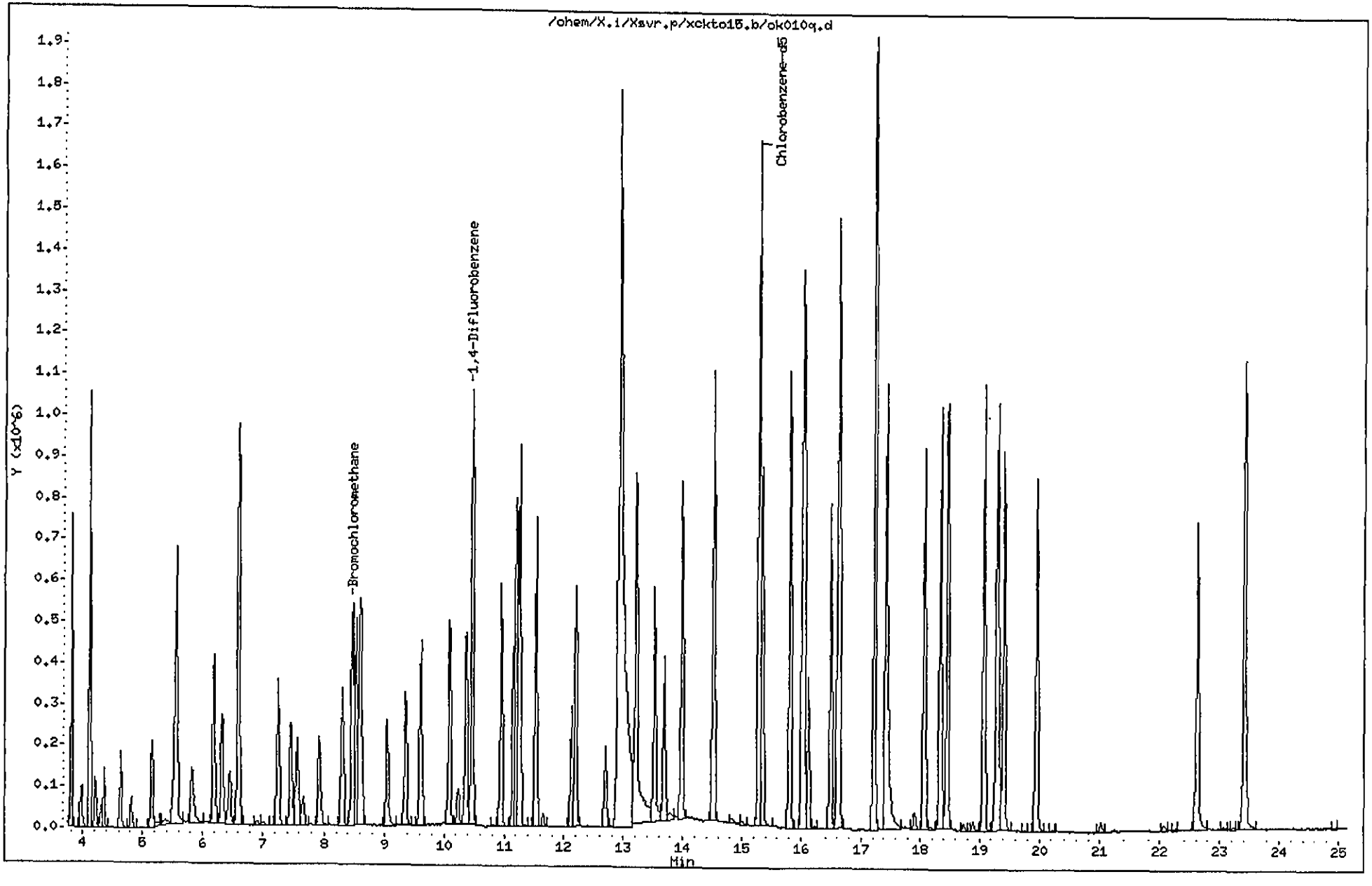
Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) PPBV	Q
74-87-3	Chloromethane	9.5	
75-01-4	Vinyl Chloride	9.0	
74-83-9	Bromomethane	8.4	
75-00-3	Chloroethane	9.0	
75-69-4	Trichlorofluoromethane	9.5	
75-09-2	Methylene Chloride	9.0	
75-34-3	1,1-Dichloroethane	9.3	
156-59-2	cis-1,2-Dichloroethene	9.6	
67-66-3	Chloroform	9.8	
71-55-6	1,1,1-Trichloroethane	9.9	
56-23-5	Carbon Tetrachloride	9.5	
71-43-2	Benzene	10	
107-06-2	1,2-Dichloroethane	9.9	
79-01-6	Trichloroethene	10	
78-87-5	1,2-Dichloropropane	10	
10061-01-5	cis-1,3-Dichloropropene	9.4	
108-88-3	Toluene	9.2	
10061-02-6	trans-1,3-Dichloropropene	8.5	
79-00-5	1,1,2-Trichloroethane	9.4	
127-18-4	Tetrachloroethene	10	
108-90-7	Chlorobenzene	10	
100-41-4	Ethylbenzene	10	
1330-20-7	Xylene (m,p)	20	
100-42-5	Styrene	10	
95-47-6	Xylene (o)	10	
79-34-5	1,1,2,2-Tetrachloroethane	11	
541-73-1	1,3-Dichlorobenzene	10	
106-46-7	1,4-Dichlorobenzene	10	
95-50-1	1,2-Dichlorobenzene	10	

Data File: /chem/X.i/Xsvr.p/xckto15.b/ck010q.d
Date : 20-NOV-2000 10:57
Client ID: H6_ICVLCS
Sample Info: H6_ICV;H6_ICV
Purge Volume: 200.0
Column phase: DB-1

Instrument: X.i

Operator: GMM
Column diameter: 0.35



STL Burlington

AIR TOXICS QUANTITATION REPORT

Data file : /chem/X.i/Xsvr.p/xckto15.b/ck010q.d
Lab Smp Id: H6_ICVLCS Client Smp ID: H6_ICVLCS
Inj Date : 20-NOV-2000 10:57
Operator : GMM Inst ID: X.i
Smp Info : H6_ICV;H6_ICV
Misc Info :
Comment :
Method : /chem/X.i/Xsvr.p/xckto15.b/ato15.m
Meth Date : 28-Nov-2000 12:07 bes Quant Type: ISTD
Cal Date : 20-NOV-2000 10:11 Cal File: ck040.d
Als bottle: 1 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50
Processing Host: chemsvr4

Concentration Formula: Amt * DF * X* Uf/Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
X	200.00000	method volume factor
Uf	1.00000	ng unit correction factor
Vo	200.00000	Sample Volume purged (mL)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	FINAL (ppbv)
1 Dichlorodifluoromethane	85	3.815	3.828	(0.450)	711574	8.98216	9.0
2 Chloromethane	50	3.988	3.986	(0.471)	147284	9.52663	9.5
3 Dichlorotetrafluoroethane	85	4.118	4.116	(0.486)	622931	9.07001	9.1
4 Vinyl Chloride	62	4.204	4.217	(0.496)	157943	9.04979	9.0
5 1,3-Butadiene	54	4.363	4.361	(0.515)	95607	8.33453	8.3
6 Bromomethane	94	4.637	4.649	(0.547)	142852	8.35303	8.4
7 Chloroethane	64	4.810	4.822	(0.568)	78524	9.02243	9.0
8 Bromoethene	106	5.156	5.168	(0.608)	190767	9.66772	9.7
9 Acetone	43	5.515	5.529	(0.651)	421983	8.81814	8.8
10 Trichlorofluoromethane	101	5.561	5 574	(0.656)	628671	9.47230	9.5
11 Isopropyl Alcohol	45	5.819	5.832	(0.687)	305855	8.96730	9.0
12 1,1-Dichloroethene	96	6.198	6.197	(0.731)	172111	9.55752	9.6
13 Methylene Chloride	49	6.319	6.333	(0.746)	235255	9.05805	9.0
14 3-Chloropropene	41	6.456	6.455	(0.762)	113688	8.58900	8.6

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	FINAL (ppbv)
	15 Carbon Disulfide	76	6.577	6.591	(0.776)	448014	9.32618	9.3
	16 Freon TF	101	6.593	6.606	(0.778)	417681	9.62299	9.6
	17 trans-1,2-Dichloroethene	61	7.260	7.259	(0.857)	312813	9.31736	9.3
	18 1,1-Dichloroethane	63	7.458	7.471	(0.880)	374184	9.26293	9.3
	19 Methyl tert-Butyl Ether	73	7.564	7.578	(0.893)	276028	7.75151	7.8
	20 Methyl Ethyl Ketone	43	7.913	7.927	(0.934)	428915	9.12531	9.1
	21 cis-1,2-Dichloroethene	61	8.292	8.306	(0.978)	323161	9.62033	9.6
*	22 Bromochloromethane	128	8.474	8.473	(1.000)	202616	10.0000	
	23 n-Hexane	57	8.520	8.534	(1.005)	247544	9.13771	9.1
	24 Chloroform	83	8.611	8.610	(1.016)	486509	9.78210	9.8
	25 Tetrahydrofuran	42	9.036	9.050	(0.864)	213741	10.0680	10
	26 1,2-Dichloroethane	62	9.355	9.353	(0.894)	407254	9.93672	9.9
	27 1,1,1-Trichloroethane	97	9.613	9.611	(0.919)	393837	9.89109	9.9
	28 Benzene	78	10.083	10.097	(0.964)	548531	10.0941	10
	29 Carbon Tetrachloride	117	10.235	10.233	(0.978)	63250	9.51604	9.5
	30 Cyclohexane	56	10.371	10.370	(0.991)	269341	9.92311	9.9
*	31 1,4-Difluorobenzene	114	10.462	10.461	(1.000)	959298	10.0000	
	32 1,2-Dichloropropane	63	10.948	10.947	(1.046)	199935	10.0670	10
	33 Bromodichloromethane	83	11.145	11.144	(1.065)	352899	10.5825	10
	34 Trichloroethene	95	11.191	11.189	(1.070)	310929	10.3383	10
	35 1,4-Dioxane	88	11.221	11.220	(1.073)	132477	10.8527	11
	36 2,2,4-Trimethylpentane	57	11.251	11.250	(1.075)	927367	10.0344	10
	37 n-Heptane	43	11.525	11.523	(1.102)	363695	9.74395	9.7
	38 cis-1,3-Dichloropropene	75	12.116	12.115	(1.158)	190527	9.43519	9.4
	39 Methyl Isobutyl Ketone	43	12.192	12.176	(1.165)	547779	9.55728	9.6
	40 trans-1,3-Dichloropropene	75	12.708	12.692	(1.215)	144692	8.51670	8.5
	41 1,1,2-Trichloroethane	83	12.906	12.889	(0.844)	218481	9.45170	9.4
	42 Toluene	92	13.224	13.208	(0.865)	423299	9.19530	9.2
	43 Methyl Butyl Ketone	43	13.528	13.511	(0.885)	547765	8.75183	8.8
	44 Dibromochloromethane	129	13.695	13.678	(0.896)	266826	9.34190	9.3
	45 1,2-Dibromoethane	107	13.983	13.982	(0.915)	782383	9.34636	9.3
	46 Tetrachloroethene	166	14.529	14.513	(0.950)	422502	10.4090	10
*	47 Chlorobenzene-d5	117	15.288	15.272	(1.000)	1158829	10.0000	
	48 Chlorobenzene	112	15.349	15.332	(1.004)	627370	10.3419	10
	49 Ethylbenzene	91	15.804	15.803	(1.034)	1111585	10.3065	10
	50 Xylene (m,p)	106	16.032	16.015	(1.049)	735168	20.2822	20
	51 Bromoform	173	16.123	16.106	(1.055)	240448	9.38044	9.4
	52 Styrene	104	16.487	16.470	(1.078)	493249	10.3202	10
	53 1,1,2,2-Tetrachloroethane	83	16.608	16.592	(1.086)	554394	10.8580	11
	54 Xylene (o)	106	16.639	16.622	(1.088)	364831	10.4912	10
	55 2-Chlorotoluene	91	18.065	18.064	(1.182)	812633	9.18393	9 2
	56 4-Ethyltoluene	105	18.338	18.337	(1.200)	923384	8.79843	8 8
	57 1,3,5-Trimethylbenzene	105	18.460	18 443	(1.207)	904671	10.2201	10
	58 1,2,4-Trimethylbenzene	105	19.067	19.065	(1.247)	890970	10.4771	10
	59 1,3-Dichlorobenzene	146	19.294	19.293	(1.262)	579591	10.3580	10
	60 1,4-Dichlorobenzene	146	19.401	19.399	(1.269)	552075	10.3415	10
	61 1,2-Dichlorobenzene	146	19.947	19.946	(1.305)	528839	10.4169	10

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)
62 1,2,4-Trichlorobenzene	180	22.618	22.617	(1.479)	345776	12.1059	12
63 Hexachlorobutadiene	225	23.422	23.406	(1.532)	363172	12.1375	12

STL Burlington

RECOVERY REPORT

Client Name: STLVT
Sample Matrix: GAS
Lab Smp Id: H6_ICVLCS
Level: LOW
Data Type: MS DATA
SpikeList File: all.spk
Sublist File: all.sub
Method File: /chem/X.i/Xsvr.p/xckto15.b/ato15.m
Misc Info:

Client SDG: xckto15
Fraction: VOA
Client Smp ID: H6_ICVLCS
Operator: GMM
SampleType: LCS
Quant Type: ISTD

SPIKE COMPOUND	CONC ADDED ppbv	CONC RECOVERED ppbv	% RECOVERED	LIMITS
1 Dichlorodifluorome	10	9.0	89.82	70-130
2 Chloromethane	10	9.5	95.27	70-130
3 Dichlorotetrafluor	10	9.1	90.70	70-130
4 Vinyl Chloride	10	9.0	90.50	70-130
5 1,3-Butadiene	10	8.3	83.35	70-130
6 Bromomethane	10	8.4	83.53	70-130
7 Chloroethane	10	9.0	90.22	70-130
8 Bromoethene	10	9.7	96.68	70-130
9 Acetone	10	8.8	88.18	70-130
10 Trichlorofluoromet	10	9.5	94.72	70-130
11 Isopropyl Alcohol	10	9.0	89.67	70-130
12 1,1-Dichloroethene	10	9.6	95.58	70-130
13 Methylene Chloride	10	9.0	90.58	70-130
14 3-Chloropropene	10	8.6	85.89	70-130
15 Carbon Disulfide	10	9.3	93.26	70-130
16 Freon TF	10	9.6	96.23	70-130
17 trans-1,2-Dichloro	10	9.3	93.17	70-130
18 1,1-Dichloroethane	10	9.3	92.63	70-130
19 Methyl tert-Butyl	10	7.8	77.52	70-130
20 Methyl Ethyl Keton	10	9.1	91.25	70-130
21 cis-1,2-Dichloroet	10	9.6	96.20	70-130
23 n-Hexane	10	9.1	91.38	70-130
24 Chloroform	10	9.8	97.82	70-130
25 Tetrahydrofuran	10	10	100.68	70-130
26 1,2-Dichloroethane	10	9.9	99.37	70-130
27 1,1,1-Trichloroeth	10	9.9	98.91	70-130
28 Benzene	10	10	100.94	70-130
29 Carbon Tetrachlori	10	9.5	95.16	70-130
30 Cyclohexane	10	9.9	99.23	70-130
32 1,2-Dichloropropan	10	10	100.67	70-130
33 Bromodichlorometha	10	10	105.83	70-130
34 Trichloroethene	10	10	103.38	70-130
35 1,4-Dioxane	10	11	108.53	70-130

SPIKE	COMPOUND	CONC ADDED ppbv	CONC RECOVERED ppbv	% RECOVERED	LIMITS
36	2,2,4-Trimethylpen	10	10	100.34	70-130
37	n-Heptane	10	9.7	97.44	70-130
38	cis-1,3-Dichloropr	10	9.4	94.35	70-130
40	trans-1,3-Dichloro	10	8.5	85.17	70-130
39	Methyl Isobutyl Ke	10	9.6	95.57	70-130
41	1,1,2-Trichloroeth	10	9.4	94.52	70-130
42	Toluene	10	9.2	91.95	70-130
43	Methyl Butyl Keton	10	8.8	87.52	70-130
44	Dibromochlorometha	10	9.3	93.42	70-130
45	1,2-Dibromoethane	10	9.3	93.46	70-130
46	Tetrachloroethene	10	10	104.09	70-130
48	Chlorobenzene	10	10	103.42	70-130
49	Ethylbenzene	10	10	103.06	70-130
50	Xylene (m,p)	20	20	101.41	70-130
51	Bromoform	10	9.4	93.80	70-130
52	Styrene	10	10	103.20	70-130
53	1,1,2,2-Tetrachlor	10	11	108.58	70-130
54	Xylene (o)	10	10	104.91	70-130
55	2-Chlorotoluene	10	9.2	91.84	70-130
56	4-Ethyltoluene	10	8.8	87.98	70-130
57	1,3,5-Trimethylben	10	10	102.20	70-130
58	1,2,4-Trimethylben	10	10	104.77	70-130
59	1,3-Dichlorobenzen	10	10	103.58	70-130
60	1,4-Dichlorobenzen	10	10	103.42	70-130
61	1,2-Dichlorobenzen	10	10	104.17	70-130
62	1,2,4-Trichloroben	10	12	121.06	70-130
63	Hexachlorobutadien	10	12	121.38	70-130

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

STLVT SAMPLE NO.

G7_LCS

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 80694

Matrix: (soil/water) AIR Lab Sample ID: G7_LCS

Sample wt/vol: 200 (g/mL) ML Lab File ID: CK010AQ

Level: (low/med) LOW Date Received:

% Moisture: not dec. _____ Date Analyzed: 11/21/00

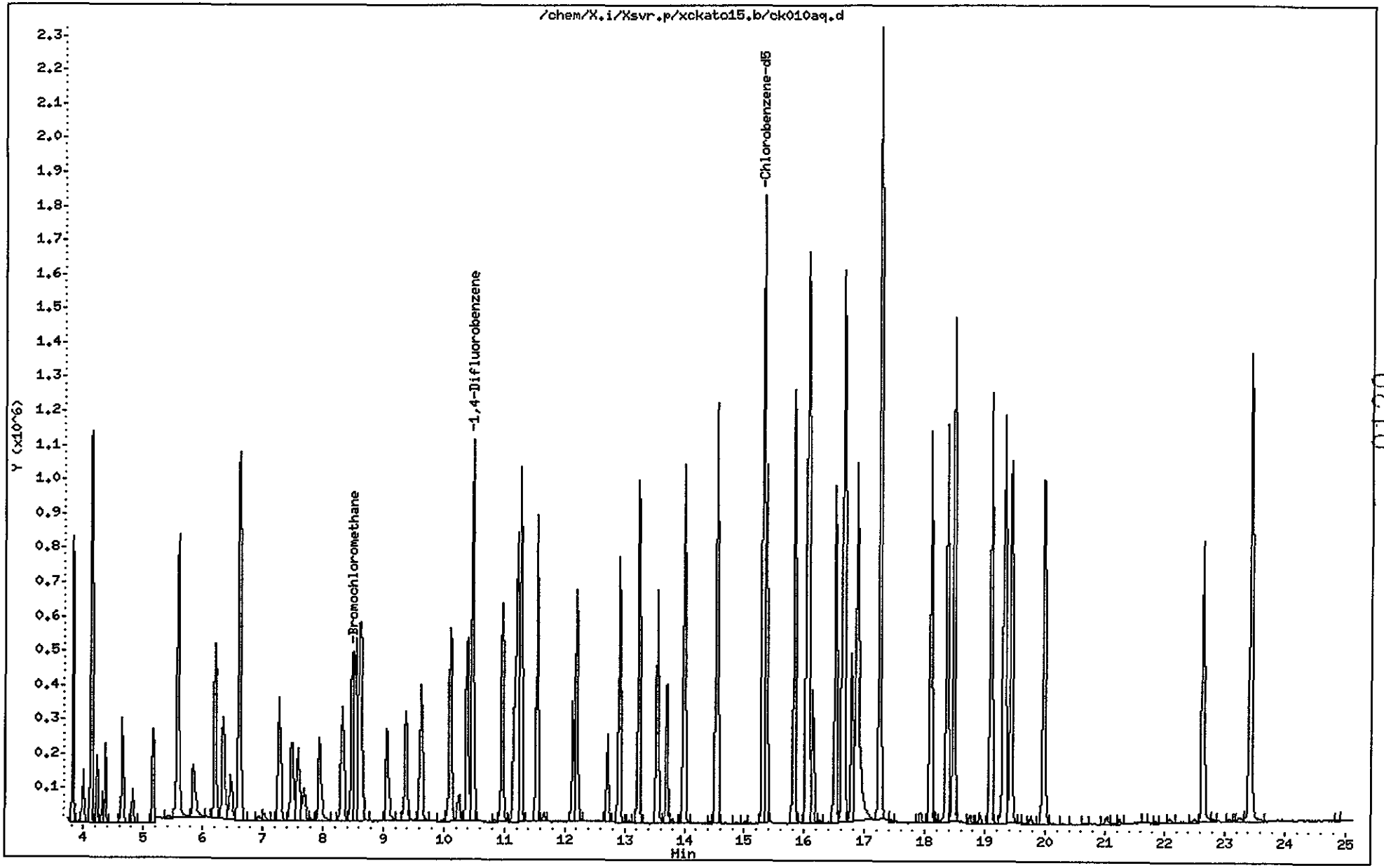
GC Column: DB-1 ID: 0.35 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) PPBV	Q
74-87-3	Chloromethane	12	
75-01-4	Vinyl Chloride	12	
74-83-9	Bromomethane	12	
75-00-3	Chloroethane	11	
75-69-4	Trichlorofluoromethane	10	
75-09-2	Methylene Chloride	10	
75-34-3	1,1-Dichloroethane	10	
156-59-2	cis-1,2-Dichloroethene	10	
67-66-3	Chloroform	9.8	
71-55-6	1,1,1-Trichloroethane	8.6	
56-23-5	Carbon Tetrachloride	8.4	
71-43-2	Benzene	11	
107-06-2	1,2-Dichloroethane	9.1	
79-01-6	Trichloroethene	10	
78-87-5	1,2-Dichloropropane	11	
10061-01-5	cis-1,3-Dichloropropene	9.7	
108-88-3	Toluene	11	
10061-02-6	trans-1,3-Dichloropropene	8.7	
79-00-5	1,1,2-Trichloroethane	9.9	
127-18-4	Tetrachloroethene	11	
108-90-7	Chlorobenzene	11	
100-41-4	Ethylbenzene	11	
1330-20-7	Xylene (m,p)	22	
100-42-5	Styrene	12	
95-47-6	Xylene (o)	11	
79-34-5	1,1,2,2-Tetrachloroethane	11	
541-73-1	1,3-Dichlorobenzene	11	
106-46-7	1,4-Dichlorobenzene	11	
95-50-1	1,2-Dichlorobenzene	12	

Data File: /chem/X.i/Xsvr.p/xckato15.b/ck010aq.d
Date : 21-NOV-2000 08:26
Client ID: G7_LCS
Sample Info: G7_LCS;G7_LCS
Purge Volume: 200.0
Column phase: DB-1

Instrument: X.i
Operator: GHH
Column diameter: 0.35



STL Burlington

AIR TOXICS QUANTITATION REPORT

Data file : /chem/X.i/Xsvr.p/xckato15.b/ck010aq.d
Lab Smp Id: G7_LCS Client Smp ID: G7_LCS
Inj Date : 21-NOV-2000 08:26
Operator : GMM Inst ID: X.i
Smp Info : G7_LCS;G7_LCS
Misc Info :
Comment :
Method : /chem/X.i/Xsvr.p/xckato15.b/ato15.m
Meth Date : 28-Nov-2000 14:00 mim Quant Type: ISTD
Cal Date : 20-NOV-2000 10:11 Cal File: ck040.d
Als bottle: 1 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ACCANA2.sub
Target Version: 3.50
Processing Host: chemsvr4

Concentration Formula: Amt * DF * X* Uf/Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
X	200.00000	method volume factor
Uf	1.00000	ng unit correction factor
Vo	200.00000	Sample Volume purged (mL)

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)
2	Chloromethane	50	3.987	3.986	(0.470)	191604	11.5562	12
4	Vinyl Chloride	62	4.218	4.217	(0.497)	217664	11.6293	12
6	Bromomethane	94	4.636	4.649	(0.546)	216505	11.8047	12
7	Chloroethane	64	4.809	4.822	(0.566)	106491	11.4094	11
10	Trichlorofluoromethane	101	5.576	5.574	(0.657)	715872	10.0576	10
13	Methylene Chloride	49	6.334	6.333	(0.746)	289169	10.3819	10
18	1,1-Dichloroethane	63	7.473	7.471	(0.880)	441767	10.1973	10
21	cis-1,2-Dichloroethene	61	8.307	8.306	(0.979)	373456	10.3667	10
* 22	Bromochloromethane	128	8.489	8.473	(1.000)	217293	10.0000	
24	Chloroform	83	8.626	8.610	(1.016)	525616	9.85457	9.8
26	1,2-Dichloroethane	62	9.370	9.353	(0.894)	433310	9.07639	9.1
27	1,1,1-Trichloroethane	97	9.627	9.611	(0.919)	398085	8.58302	8.6
28	Benzene	78	10.098	10.097	(0.964)	671470	10.6079	11
29	Carbon Tetrachloride	117	10.250	10.233	(0.978)	65314	8.43604	8.4

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)
*	31 1,4-Difluorobenzene	114	10.477	10.461	(1.000)	1117421	10.0000	
	32 1,2-Dichloropropane	63	10.963	10.947	(1.046)	246046	10.6357	11
	34 Trichloroethene	95	11.206	11.189	(1.070)	349822	9.98550	10
	38 cis-1,3-Dichloropropene	75	12.131	12.115	(1.158)	227846	9.68662	9.7
	40 trans-1,3-Dichloropropene	75	12.708	12.692	(1.213)	172610	8.72227	8.7
	41 1,1,2-Trichloroethane	83	12.905	12.889	(0.843)	257034	9.89337	9.9
	42 Toluene	92	13.224	13.208	(0.864)	579004	11.1907	11
	46 Tetrachloroethene	166	14.544	14.513	(0.950)	505996	11.0914	11
*	47 Chlorobenzene-d5	117	15.303	15.272	(1.000)	1302453	10.0000	
	48 Chlorobenzene	112	15.364	15.332	(1.004)	769609	11.2877	11
	49 Ethylbenzene	91	15.819	15.803	(1.034)	1368613	11.2903	11
	50 Xylene (m,p)	106	16.047	16.015	(1.049)	901544	22.1295	22
	52 Styrene	104	16.502	16.470	(1.078)	636574	11.8502	12
	53 1,1,2,2-Tetrachloroethane	83	16.623	16.592	(1.086)	623287	10.8612	11
	54 Xylene (o)	106	16.654	16.622	(1.088)	429986	11.0014	11
	59 1,3-Dichlorobenzene	146	19.325	19.293	(1.263)	710074	11.2906	11
	60 1,4-Dichlorobenzene	146	19.431	19.399	(1.270)	688480	11.4745	11
	61 1,2-Dichlorobenzene	146	19.977	19.946	(1.305)	669185	11.7278	12

STL Burlington

RECOVERY REPORT

Client Name: STLVT
Client SDG: xckato15
Sample Matrix: GAS
Fraction: VOA
Lab Smp Id: G7_LCS
Client Smp ID: G7_LCS
Level: LOW
Operator: GMM
Data Type: MS DATA
SampleType: LCS
SpikeList File: ACCANA2.spk
Quant Type: ISTD
Sublist File: ACCANA2.sub
Method File: /chem/X.i/Xsvr.p/xckato15.b/ato15.m
Misc Info:

SPIKE COMPOUND	CONC ADDED ppbv	CONC RECOVERED ppbv	% RECOVERED	LIMITS
2 Chloromethane	10	12	115.56	70-130
4 Vinyl Chloride	10	12	116.29	70-130
6 Bromomethane	10	12	118.05	70-130
7 Chloroethane	10	11	114.09	70-130
10 Trichlorofluoromet	10	10	100.58	70-130
13 Methylene Chloride	10	10	103.82	70-130
18 1,1-Dichloroethane	10	10	101.97	70-130
21 cis-1,2-Dichloroet	10	10	103.67	70-130
24 Chloroform	10	9.8	98.55	70-130
26 1,2-Dichloroethane	10	9.1	90.76	70-130
27 1,1,1-Trichloroeth	10	8.6	85.83	70-130
28 Benzene	10	11	106.08	70-130
29 Carbon Tetrachlori	10	8.4	84.36	70-130
32 1,2-Dichloropropan	10	11	106.36	70-130
34 Trichloroethene	10	10	99.86	70-130
38 cis-1,3-Dichloropr	10	9.7	96.87	70-130
40 trans-1,3-Dichloro	10	8.7	87.22	70-130
41 1,1,2-Trichloroeth	10	9.9	98.93	70-130
42 Toluene	10	11	111.91	70-130
46 Tetrachloroethene	10	11	110.91	70-130
48 Chlorobenzene	10	11	112.88	70-130
49 Ethylbenzene	10	11	112.90	70-130
50 Xylene (m,p)	20	22	110.65	70-130
52 Styrene	10	12	118.50	70-130
53 1,1,2,2-Tetrachlor	10	11	108.61	70-130
54 Xylene (o)	10	11	110.01	70-130
59 1,3-Dichlorobenzen	10	11	112.91	70-130
60 1,4-Dichlorobenzen	10	11	114.75	70-130
61 1,2-Dichlorobenzen	10	12	117.28	70-130

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Severn Trent Laboratories, Inc.

SAMPLE PREPARATION

Severn Trent Laboratories-VT
Instrument Run Log
Instrument X

Batch: XCK+015
Opened: 11 / 20 / 00 Time: 0724
Closed: 11 / 21 / 00 Time: 0724

ETR #	SDG #
80087	80087
80600	—

Tune: ✓ 213F
ISTD Tag #: 01-1388

Temp: 19.5 °C B.P.: 29.80 "Hg

INJ. TIME	LAB ID	CAN ID #	CLIENT ID	ETR #	INLET #	SAMPLE VOLUME (mL)	DILUTION FACTOR	ISTD RECOVERY	CONC.	ANALYST	COMMENTS
0724	CK002p	NA	XBFB002	NA	NA	NA	NA	NA	✓	GMM	
0752	CK0005	6087	ASTD0005		3	20		✓	✓		
0826	CK005	EXP1	005		16	25		✓	✓		
0900	CK010		010		16	50		✓	✓		
0934	CK020		020		16	100		✓	✓		
1011	CK040		040		16	200		✓	✓		
1057	CK010q	6097	HG-1CV		15	200		✓	✓		
1219	CK0001	NA	ABLKHG		2	200		✓	✓		
1253	438348d	Bag	SVT 1-40	80087	5	~~20~~ 10	1:20	✓	↑		CCl4 58
1327	438349d		SVT 001 40		6	15	1:3 ~~40~~	✓	✓		C CCl4@40 (ok)
1444	438348d2		SVT 1-40		5	80	1:20 50	✓	✓		C
1549	437308	6046	GP-6	80600	9	200	1:1	✓	↑		Acetone 360
1624	437309	6161	CMT-2		10	10 *	1:20	✓	✓		* Volume ↓ because of amt of sample in canister
1701	437310	6145	CMT-1		11	20 *	1:10	✓	✓		C
1738	437312	6134	GW-22		12	200	1:1	✓	↑ *		Detector saturated
	AMM 11/21/00										

0125

Severn Trent Laboratories-VT
Instrument Run Log
Instrument X

Batch: xCKat015
Opened: 11 / 21 / 00 Time: 0725
Closed: 11 / 22 / 00 Time: 0725

ETR #	SDG #
[illegible]	—
8702	80697
80694	80694

Tune: ✓ 284k
ISTD Tag #: 011355

Temp. 195 °C B.P.: 29.59 "Hg

INJ. TIME	LAB ID	CAN ID #	CLIENT ID	ETR #	INLET #	SAMPLE VOLUME (mL)	DILUTION FACTOR	ISTD RECOVERY	CONC.	ANALYST	COMMENTS
0725	CK003p	n/a	XBTB003	n/a	n/a	n/a	n/a	n/a	✓	GMM	
0751	CK010a	#30	ASTD010	↓	10	50	↓	✓	✓	↓	• AT11170001
0826	CK010aq	6094	G7-LCS	↓	15	200	↓	✓	✓	↓	AT09140003
0958	CKb001a	n/a	ABLKG7	↓	2	200	↓	✓	✓	↓	
1036	437308d2	6046	GP-6	80606	9	40	2.45 1475	✓	✓	↓	C
1108	437312d2	6134	GW-22	↓	12	20	3.41 34.1	✓	↑	↓	
1145	438454d	Bag	SVI 1-41	8702	5	100	1.20 40	✓	✓	↓	C
1217	438455d	↓	SVI OUT-41	↓	6	10	20	✓	✓	↓	C
1252	437312d3	6134	GW-22	80606	7	100	1.00, 3.41 682	✓	✓	↓	C
1439	438420	6078	-ACAIA-	80694	9	200	1 1	✓ A	✓	GMM	C * flagged, but [illegible]
1513	438421	6114	-ACA21A-	↓	10	200	↓	✓	✓	↓	C
1549	438422	6027	-ACAIA-	↓	11	200	↓	✓	✓	↓	C
1623	MIM001		Sample [illegible]	n/a	12	200	↓	✓	✓	↓	

[illegible] 112200

0126

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Severn Trent Laboratories, Inc.

SAMPLE HANDLING

SEVERN TRENT LABORATORIES LOG-IN SHEET - Form DC-1

Lab Name: Severn Trent Laboratories - VT Page 1 of 1

Received By (Print Name): Scott Lavigne Log-in Date: 11/20/00

Received By (Signature): Scott

Case Number: 20031

Sample Delivery Group No: 80694

ETR Number: 80694

REMARKS:

1. **Custody Seal** ~~Present/Absent*~~ ~~Intact/Broken~~
2. **Custody Seal Nos.:** N/A
3. **Chain-of-Custody Records** ~~Present/Absent*~~
4. **Sample Information Sheets** ~~Present/Absent*~~
5. **Airbill** ~~Airbill/Sticker~~ Smk ~~Present/Absent*~~
6. **Airbill No.:** Could not be Retrieved
7. **Sample Tags** ~~Present/Absent*~~
   Sample Tag Numbers ~~Listed~~/Not Listed on Chain-of-Custody
8. **Sample Condition:** ~~Intact/Broken*~~ ~~Leaking~~
9. **Does information on the custody records, sample information sheets, sample tags and labels agree?** ~~Yes/No*~~
10. **Date Received at Lab:** 11/16/00
11. **Time Received:** 0930
12. **Cooler Temperature:** N/A "Box"

Sample Transfer

Fraction: All

Area #: Lvl 4

By: Smk

On: 11/16/00

CORRESPONDING			
CLIENT SAMPLE #	SAMPLE TAG #	ASSIGNED LAB #	REMARKS: CONDITION OF SAMPLE SHIPMENT, ETC.
029ACAIA1	130006 N/A	438420	Were air bubbles present
029ACAIA11	130006 "	438421	in any VOA vials? N/A
029ACAIA11	130006 "	438422	Samples received
			Intact, as were
			Custody seals on
			outside of Box.
			* Removed dashes
			for truncation.
	Smk	11/20/00	

* Contact Project Director

Reviewed by: [signature] 11/22/00 Logbook No.: _____

Date: _____ Logbook Page No.: _____

** COOLER RECEIPT CHECKLIST **

WERE CUSTODY SEALS PRESENT ON THE COOLERS?

(YES) NO

IF SO, WERE THERE CUSTODY SEAL NUMBERS?

YES (NO)

LIST THE CUSTODY SEAL NUMBERS. _____ _____

WHAT TYPE OF COOLING WAS UTILIZED?

ICE MELTED ICE PACKS (NONE)

COOLER TEMPERATURE (degrees c): Box

DATE AND TIME COOLER RECEIVED: 11-16-00 0930

DO SAMPLES APPEAR TO BE INTACT: (YES) NO

DO ANY SAMPLES HAVE SHORT HOLDING TIMES?
(less than seven days)

WET CHEM	**YES**	(NO)
EXTRACTABLES	**YES**	(NO)
UNPRES VOA	**YES**	(NO)

RADIATION SCREEN RESULTS <0.05 MR/HR (YES) NO

81024

SEVERN
TRENT
SERVICES

Severn Trent
Laboratories, Inc.

CTO 29
103rd St. Monthly

SEVERN
TRENT
SERVICES

STL Burlington

SAMPLE DATA SUMMARY PACKAGE

SDG NO: 81024

SEVERN TRENT SERVICES

STL Burlington
Suite 1
208 South Park Drive
Colchester, VT 05446

Tel 802 655 1203
Fax: 802 655 1248
www.stl-inc.com

December 27, 2000

Mr. David Fuller
Accura Analytical Laboratories
6017 Financial Drive
Norcross, GA 30071

Re: Laboratory Project No. 20031
Case: 20031; SDG: 81024

Dear Mr. Fuller:

Enclosed are the analytical results of samples received intact by Severn Trent Laboratories on December 15, 2000. Laboratory numbers have been assigned and designated as follows:

Lab ID	Client Sample ID	Sample Date	Sample Matrix
	Received: 12/15/00 ETR No: 81024		
440589	029ACAIA12110007	12/11/00	Air
440590	029ACA2IA12110007	12/11/00	Air
440591	029ACAEA12110007	12/11/00	Air

Method TO-14A Modified-Volatile Organics;
Please note that due to a limitation of characters inherent in the reporting software, some characters of the client identification above were truncated.

The laboratory noted no exceptions to method quality control requirements for this analytical work.

If there are any questions regarding this submittal, please contact Ron Pentkowski at (802) 655-1203.

This report shall not be reproduced, except in full, without the written approval of the laboratory. This report is sequentially numbered starting with page 001 and ending with page 121.

SEVERN TRENT SERVICES

STL Burlington

I certify that this package is in compliance with the NELAC requirements, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Director or his designee, as verified by the following signature.

Sincerely,

Christopher A. Ouellette
Laboratory Director

RAP/mpg
Enclosure

CC0173 last alpha

SEVERN TRENT SERVICES

Severn Trent Laboratories, Inc.

SAMPLE DATA SUMMARY PACKAGE

FOR TO-14A

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

ACCANA SAMPLE NO.

A2IA12110007

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 81024

Matrix: (soil/water) AIR Lab Sample ID: 440590

Sample wt/vol: 200 (g/mL) ML Lab File ID: 440590

Level: (low/med) LOW Date Received: 12/15/00

% Moisture: not dec. _____ Date Analyzed: 12/18/00

GC Column: DB-1 ID: 0.35 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) PPBV	Q
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl Chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-09-2	Methylene Chloride	0.79	
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
67-66-3	Chloroform	0.67	
71-55-6	1,1,1-Trichloroethane	0.50	U
56-23-5	Carbon Tetrachloride	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-88-3	Toluene	1.2	
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
1330-20-7	Xylene (total)	0.50	U
100-42-5	Styrene	0.50	U
1330-20-7	Xylene (m,p)	0.50	U
95-47-6	Xylene (o)	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

ACCANA SAMPLE NO.

A2IA12110007

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 81024

Matrix: (soil/water) AIR Lab Sample ID: 440590

Sample wt/vol: 200 (g/mL) ML Lab File ID: 440590

Level: (low/med) LOW Date Received: 12/15/00

% Moisture: not dec. _____ Date Analyzed: 12/18/00

GC Column: DB-1 ID: 0.35 (mm) Dilution Factor: 1.0

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

Number TICs found: 10

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

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		UNKNOWN ALIPHATIC COMPOUND	13.07	18	J
2.		UNKNOWN ALIPHATIC COMPOUND	13.21	19	J
3.		UNKNOWN ALIPHATIC COMPOUND	13.49	26	J
4.		UNKNOWN	13.57	16	J
5.		UNKNOWN C3-ALKYLBENZENE	13.62	17	J
6.		UNKNOWN C4-ALKYLBENZENE	14.06	14	J
7.		UNKNOWN C3-ALKYLBENZENE	14.13	24	J
8.		UNKNOWN	14.31	54	J
9.		UNKNOWN C4-ALKYLBENZENE	14.43	12	J
10.	493-02-7	NAPHTHALENE, DECAHYDRO-, TRA	14.74	15	NJ
11.					
12.					
13.					
14.					
15.					
16.					
17.					
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FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

ACCANA SAMPLE NO.

CAEA12110007

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 81024

Matrix: (soil/water) AIR Lab Sample ID: 440591

Sample wt/vol: 200 (g/mL) ML Lab File ID: 440591

Level: (low/med) LOW Date Received: 12/15/00

% Moisture: not dec. _____ Date Analyzed: 12/18/00

GC Column: DB-1 ID: 0.35 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) PPBV	Q
74-87-3	Chloromethane	0.80	
75-01-4	Vinyl Chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	
75-09-2	Methylene Chloride	1.2	
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
67-66-3	Chloroform	1.3	
71-55-6	1,1,1-Trichloroethane	0.50	U
56-23-5	Carbon Tetrachloride	0.50	U
71-43-2	Benzene	0.86	
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-88-3	Toluene	16	
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	32	
1330-20-7	Xylene (total)	13	
100-42-5	Styrene	0.50	U
1330-20-7	Xylene (m,p)	13	
95-47-6	Xylene (o)	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

ACCANA SAMPLE NO.

CAEA12110007

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 81024

Matrix: (soil/water) AIR Lab Sample ID: 440591

Sample wt/vol: 200 (g/mL) ML Lab File ID: 440591

Level: (low/med) LOW Date Received: 12/15/00

% Moisture: not dec. _____ Date Analyzed: 12/18/00

GC Column: DB-1 ID: 0.35 (mm) Dilution Factor: 1.0

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

Number TICs found: 10

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

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		UNKNOWN ALIPHATIC COMPOUND	10.72	5.8	J
2.	111-65-9	OCTANE	11.25	18	NJ
3.		UNKNOWN ALIPHATIC COMPOUND	11.70	6.4	J
4.		UNKNOWN ALIPHATIC COMPOUND	11.95	37	J
5.		UNKNOWN ALKYLCYCLOHEXANE	12.16	5.6	J
6.		UNKNOWN ALKYLCYCLOHEXANE	12.49	5.5	J
7.		UNKNOWN	12.55	5.6	J
8.		UNKNOWN ALIPHATIC COMPOUND	12.61	10	J
9.		UNKNOWN ALKYLCYCLOHEXANE	12.89	9.1	J
10.		UNKNOWN	13.07	11	J
11.					
12.					
13.					
14.					
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FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

ACCANA SAMPLE NO.

CAIA12110007

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 81024

Matrix: (soil/water) AIR Lab Sample ID: 440589

Sample wt/vol: 200 (g/mL) ML Lab File ID: 440589

Level: (low/med) LOW Date Received: 12/15/00

% Moisture: not dec. _____ Date Analyzed: 12/18/00

GC Column: DB-1 ID: 0.35 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) PPBV	Q
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl Chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-09-2	Methylene Chloride	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
67-66-3	Chloroform	0.82	
71-55-6	1,1,1-Trichloroethane	0.50	U
56-23-5	Carbon Tetrachloride	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-88-3	Toluene	0.50	U
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
1330-20-7	Xylene (total)	0.50	U
100-42-5	Styrene	0.50	U
1330-20-7	Xylene (m,p)	0.50	U
95-47-6	Xylene (o)	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

ACCANA SAMPLE NO.

CAIA12110007

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 81024

Matrix: (soil/water) AIR Lab Sample ID: 440589

Sample wt/vol: 200 (g/mL) ML Lab File ID: 440589

Level: (low/med) LOW Date Received: 12/15/00

% Moisture: not dec. _____ Date Analyzed: 12/18/00

GC Column: DB-1 ID: 0.35 (mm) Dilution Factor: 1.0

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

Number TICs found: 0

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

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.					
2.					
3.					
4.					
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30.					

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

STLVT SAMPLE NO.

ABLKL4

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 81024

Matrix: (soil/water) AIR Lab Sample ID: ABLKL4

Sample wt/vol: 200 (g/mL) ML Lab File ID: CEB001

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

% Moisture: not dec. _____ Date Analyzed: 12/18/00

GC Column: DB-1 ID: 0.35 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) PPBV	Q
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl Chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-09-2	Methylene Chloride	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
56-23-5	Carbon Tetrachloride	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-88-3	Toluene	0.50	U
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
1330-20-7	Xylene (total)	0.50	U
100-42-5	Styrene	0.50	U
1330-20-7	Xylene (m,p)	0.50	U
95-47-6	Xylene (o)	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

STLVT SAMPLE NO.

ABLKL4

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 81024

Matrix: (soil/water) AIR Lab Sample ID: ABLKL4

Sample wt/vol: 200 (g/mL) ML Lab File ID: CEB001

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

% Moisture: not dec. _____ Date Analyzed: 12/18/00

GC Column: DB-1 ID: 0.35 (mm) Dilution Factor: 1.0

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

Number TICs found: 0

CONCENTRATION UNITS:.
(ug/L or ug/Kg) ppbv

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.					
2.					
3.					
4.					
5.					
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FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

STLVT SAMPLE NO.

L4_ICVLCS

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 81024

Matrix: (soil/water) AIR Lab Sample ID: L4_ICVLCS

Sample wt/vol: 200 (g/mL) ML Lab File ID: CE010Q

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

% Moisture: not dec. _____ Date Analyzed: 12/18/00

GC Column: DB-1 ID: 0.35 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) PPBV	Q
74-87-3	Chloromethane	9.5	
75-01-4	Vinyl Chloride	9.5	
74-83-9	Bromomethane	9.1	
75-00-3	Chloroethane	9.0	
75-69-4	Trichlorofluoromethane	9.4	
75-09-2	Methylene Chloride	8.7	
75-34-3	1,1-Dichloroethane	9.4	
156-59-2	cis-1,2-Dichloroethene	9.4	
67-66-3	Chloroform	9.4	
71-55-6	1,1,1-Trichloroethane	9.1	
56-23-5	Carbon Tetrachloride	9.6	
71-43-2	Benzene	9.3	
107-06-2	1,2-Dichloroethane	9.7	
79-01-6	Trichloroethene	9.7	
78-87-5	1,2-Dichloropropane	9.5	
10061-01-5	cis-1,3-Dichloropropene	9.5	
108-88-3	Toluene	9.6	
10061-02-6	trans-1,3-Dichloropropene	8.6	
79-00-5	1,1,2-Trichloroethane	9.7	
127-18-4	Tetrachloroethene	9.2	
108-90-7	Chlorobenzene	9.3	
100-41-4	Ethylbenzene	9.6	
1330-20-7	Xylene (total)	29	
100-42-5	Styrene	11	
1330-20-7	Xylene (m,p)	19	
95-47-6	Xylene (o)	9.6	
79-34-5	1,1,2,2-Tetrachloroethane	9.9	
541-73-1	1,3-Dichlorobenzene	10	
106-46-7	1,4-Dichlorobenzene	10	
95-50-1	1,2-Dichlorobenzene	10	

FORM 3
AIR VOLATILE LAB CONTROL SAMPLE

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 81024

Matrix Spike - STLVT Sample No.: L4_ICVLCS

COMPOUND	SPIKE ADDED (ppbv)	SAMPLE CONCENTRATION (ug/L)	LCS CONCENTRATION (ppbv)	LCS % REC #	QC. LIMITS REC.
Chloromethane	10		9.5	95	70-130
Vinyl Chloride	10		9.5	95	70-130
Bromomethane	10		9.1	91	70-130
Chloroethane	10		9.0	90	70-130
Trichlorofluoromethane	10		9.4	94	70-130
Methylene Chloride	10		8.7	87	70-130
1,1-Dichloroethane	10		9.4	94	70-130
cis-1,2-Dichloroethene	10		9.4	94	70-130
Chloroform	10		9.4	94	70-130
1,1,1-Trichloroethane	10		9.1	91	70-130
Carbon Tetrachloride	10		9.6	96	70-130
Benzene	10		9.3	93	70-130
1,2-Dichloroethane	10		9.7	97	70-130
Trichloroethene	10		9.7	97	70-130
1,2-Dichloropropane	10		9.5	95	70-130
cis-1,3-Dichloropropene	10		9.5	95	70-130
Toluene	10		9.6	96	70-130
trans-1,3-Dichloroprope	10		8.6	86	70-130
1,1,2-Trichloroethane	10		9.7	97	70-130
Tetrachloroethene	10		9.2	92	70-130
Chlorobenzene	10		9.3	93	70-130
Ethylbenzene	10		9.6	96	70-130
Styrene	10		11	110	70-130
Xylene (m,p)	20		19	95	70-130
Xylene (o)	10		9.6	96	70-130
1,1,2,2-Tetrachloroetha	10		9.9	99	70-130
1,3-Dichlorobenzene	10		10	100	70-130
1,4-Dichlorobenzene	10		10	100	70-130

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

* Values outside of QC limits

COMMENTS: _____

FORM 3
AIR VOLATILE LAB CONTROL SAMPLE

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 81024

Matrix Spike - STLVT Sample No.: L4_ICVLCS

COMPOUND	SPIKE ADDED (ppbv)	SAMPLE CONCENTRATION (ug/L)	LCS CONCENTRATION (ppbv)	LCS % REC #	QC. LIMITS REC.
1,2-Dichlorobenzene	10		10	100	70-130

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

* Values outside of QC limits

RPD: 0 out of 0 outside limits
Spike Recovery: 0 out of 29 outside limits

COMMENTS: _____

FORM 4
VOLATILE METHOD BLANK SUMMARY

STLVT SAMPLE NO.

ABLKL4

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 81024

Lab File ID: CEB001 Lab Sample ID: ABLKL4

Date Analyzed: 12/18/00 Time Analyzed: 1525

GC Column: DB-1 ID: 0.35 (mm) Heated Purge: (Y/N) N

Instrument ID: W

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

	STLVT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	L4_ICVLCS	L4_ICVLCS	CE010Q	1417
02	CAIA12110007	440589	440589	1635
03	A2IA12110007	440590	440590	1707
04	CAEA12110007	440591	440591	1741
05				
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COMMENTS:

FORM 5
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 81024

Lab File ID: CE001P BFB Injection Date: 12/18/00

Instrument ID: W BFB Injection Time: 0805

GC Column: DB-1 ID: 0.32 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	21.8
75	30.0 - 66.0% of mass 95	48.6
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.4
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	50.0 - 120.0% of mass 95	68.9
175	4.0 - 9.0% of mass 174	5.0 (7.3)1
176	93.0 - 101.0% of mass 174	66.2 (96.2)1
177	5.0 - 9.0% of mass 176	4.4 (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	ASTD020	ASTD020	CE020	12/18/00	1004
02	ASTD040	ASTD040	CE040	12/18/00	1038
03	ASTD005	ASTD005	CE005	12/18/00	1114
04	ASTD0005	ASTD0005	CE0005I2	12/18/00	1223
05	ASTD010	ASTD010	CE010I2	12/18/00	1344
06	L4_ICVLCS	L4_ICVLCS	CE010Q	12/18/00	1417
07	ABLKL4	ABLKL4	CEB001	12/18/00	1525
08	CAIA12110007	440589	440589	12/18/00	1635
09	A2IA12110007	440590	440590	12/18/00	1707
10	CAEA12110007	440591	440591	12/18/00	1741
11					
12					
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22					

6A

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 81024

Instrument ID: W Calibration Date(s): 12/18/00 12/18/00

Heated Purge: (Y/N) N Calibration Time(s): 1004 1344

GC Column: DB-1 ID: 0.35 (mm)

LAB FILE ID: RRF0.5=CE0005I2 RRF5 =CE005
RRF10 =CE010I2 RRF20 =CE020 RRF40 =CE040

COMPOUND	RRF0.5	RRF5	RRF10	RRF20	RRF40	$\overline{RRF}$	% RSD
Chloromethane *	0.676	0.647	0.614	0.523	0.506	0.593	12.7*
Vinyl Chloride	0.684	0.692	0.670	0.585	0.560	0.638	9.6
Bromomethane	0.930	0.929	0.813	0.716	0.726	0.823	12.7
Chloroethane	0.428	0.438	0.397	0.338	0.364	0.393	10.7
Trichlorofluoromethane	2.520	2.478	2.222	2.042	1.935	2.239	11.5
Methylene Chloride	1.446	0.967	0.906	0.773	0.762	0.971	28.8
1,1-Dichloroethane *	1.704	1.696	1.495	1.291	1.260	1.489	14.3*
cis-1,2-Dichloroethene	1.192	1.248	1.102	1.064	0.950	1.111	10.4
Chloroform	2.265	2.167	1.952	1.815	1.642	1.968	12.9
1,1,1-Trichloroethane	2.100	2.091	1.801	1.750	1.609	1.870	11.6
Carbon Tetrachloride	0.491	0.445	0.427	0.381	0.360	0.421	12.3
Benzene	0.698	0.610	0.551	0.514	0.480	0.571	15.1
1,2-Dichloroethane	1.482	1.427	1.286	1.240	1.175	1.322	9.7
Trichloroethene	0.331	0.301	0.273	0.249	0.232	0.277	14.3
1,2-Dichloropropane	0.255	0.231	0.210	0.194	0.181	0.214	13.8
cis-1,3-Dichloropropene	0.246	0.253	0.258	0.256	0.263	0.255	2.5
Toluene	0.421	0.442	0.404	0.361	0.354	0.396	9.6
trans-1,3-Dichloropropene	0.172	0.182	0.166	0.189	0.194	0.181	6.3
1,1,2-Trichloroethane	0.264	0.248	0.227	0.206	0.192	0.227	12.9
Tetrachloroethene	0.358	0.342	0.309	0.279	0.272	0.312	12.1
Chlorobenzene *	0.660	0.562	0.521	0.462	0.445	0.530	16.3*
Ethylbenzene	1.003	1.015	0.938	0.819	0.788	0.913	11.4
Xylene (total)	1.097	1.031	0.992	0.889	0.902	0.982	8.9
Styrene	0.363	0.243	0.334	0.360	0.343	0.329	15.0
Xylene (m,p)	0.368	0.347	0.334	0.298	0.302	0.330	9.0
Xylene (o)	0.362	0.337	0.324	0.293	0.297	0.323	8.9
1,1,2,2-Tetrachloroethane	0.661	0.542	0.513	0.459	0.451	0.525	16.1
1,3-Dichlorobenzene	0.478	0.424	0.398	0.398	0.434	0.426	7.8
1,4-Dichlorobenzene	0.558	0.374	0.408	0.405	0.433	0.436	16.4
1,2-Dichlorobenzene	0.394	0.306	0.319	0.330	0.366	0.343	10.6

* Compounds with required minimum RRF and maximim %RSD values.
All other compounds must meet a minimim RRF of 0.010.

FORM 7
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 81024

Instrument ID: W Calibration Date: 12/18/00 Time: 1344

Lab File ID: CE010I2 Init. Calib. Date(s): 12/18/00 12/18/00

Heated Purge: (Y/N) N Init. Calib. Times: 1004 1344

GC Column: DB-1 ID: 0.35 (mm)

COMPOUND	$\overline{RRF}$	RRF10	MIN RRF	%D	MAX %D
Chloromethane	0.593	0.614	0.1	3.5	30.0
Vinyl Chloride	0.638	0.670	0.01	5.0	30.0
Bromomethane	0.823	0.813	0.01	1.2	30.0
Chloroethane	0.393	0.397	0.01	1.0	30.0
Trichlorofluoromethane	2.239	2.222	0.01	0.8	30.0
Methylene Chloride	0.971	0.906	0.01	6.7	30.0
1,1-Dichloroethane	1.489	1.495	0.1	0.4	30.0
cis-1,2-Dichloroethene	1.111	1.102	0.01	0.8	30.0
Chloroform	1.968	1.952	0.01	0.8	30.0
1,1,1-Trichloroethane	1.870	1.801	0.01	3.7	30.0
Carbon Tetrachloride	0.421	0.427	0.01	1.4	30.0
Benzene	0.571	0.551	0.01	3.5	30.0
1,2-Dichloroethane	1.322	1.286	0.01	2.7	30.0
Trichloroethene	0.277	0.273	0.01	1.4	30.0
1,2-Dichloropropane	0.214	0.210	0.01	1.9	30.0
cis-1,3-Dichloropropene	0.255	0.258	0.01	1.2	30.0
Toluene	0.396	0.404	0.01	2.0	30.0
trans-1,3-Dichloropropene	0.181	0.166	0.01	8.3	30.0
1,1,2-Trichloroethane	0.227	0.227	0.01	0.0	30.0
Tetrachloroethene	0.312	0.309	0.01	1.0	30.0
Chlorobenzene	0.530	0.521	0.3	1.7	30.0
Ethylbenzene	0.913	0.938	0.01	2.7	30.0
Xylene (total)	0.982	0.992	0.01	1.0	30.0
Styrene	0.329	0.334	0.01	1.5	30.0
Xylene (m,p)	0.330	0.334	0.01	1.2	30.0
Xylene (o)	0.323	0.324	0.01	0.3	30.0
1,1,2,2-Tetrachloroethane	0.525	0.513	0.01	2.3	30.0
1,3-Dichlorobenzene	0.426	0.398	0.01	6.6	30.0
1,4-Dichlorobenzene	0.436	0.408	0.01	6.4	30.0
1,2-Dichlorobenzene	0.343	0.319	0.01	7.0	30.0

FORM 8
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 81024

Lab File ID (Standard): CE010I2 Date Analyzed: 12/18/00

Instrument ID: W Time Analyzed: 1344

GC Column: DB-1 ID: 0.35 (mm) Heated Purge: (Y/N) N

		IS1 (BCM) AREA #	RT #	IS2 (CBZ) AREA #	RT #	IS3 (DFB) AREA #	RT #
	12 HOUR STD	335524	7.62	1506068	11.84	1443226	8.96
	UPPER LIMIT	805258	7.95	3614563	12.17	3463742	9.29
	LOWER LIMIT	134210	7.29	602427	11.51	577290	8.63
	CLIENT SAMPLE NO.						
01	L4_ICVLCS	339941	7.62	1534243	11.84	1434000	8.96
02	ABLKL4	297081	7.64	1481319	11.84	1382662	8.97
03	CAIA12110007	276854	7.59	1060364	11.83	1017241	8.94
04	A2IA12110007	276416	7.59	1098375	11.82	1239101	8.93
05	CAEA12110007	312119	7.58	1247750	11.81	1270164	8.93
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IS1 (BCM) = Bromochloromethane
IS2 (CBZ) = Chlorobenzene-d5
IS3 (DFB) = 1,4-Difluorobenzene

AREA UPPER LIMIT = +140% of internal standard area
AREA LOWER LIMIT = - 60% of internal standard area
RT UPPER LIMIT = + 0.33 minutes of internal standard RT
RT LOWER LIMIT = - 0.33 minutes of internal standard RT

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

AAL # 26636

CH2M Hill Constructors, Inc.
115 Perimeter Center Place, Suite 700
Atlanta, GA 30346-1278
Tel No (770) 604-9182 ; Fax No (770) 604-9282

CHAIN-OF-CUSTODY RECORD

COC NUMBER: **154282-07**

PROJECT NAME	PROJECT NUMBER	LAB NAME AND CONTACT	FAX AND MAIL REPORTS/EDD TO:: RECIPIENT 1 (Name and Company)	RECIPIENT 1 (Address, Tel No , and Fax No)
N.A.S Cecil Field 103rd Street	154282	Severn Trent Laboratories/ Ron Pentkowski	Bonnie Hogue Accura Analytical Laboratory	6017 Financial Drive Norcross, GA 30071 (770) 449-8800 Fax:(770) 449-5477
PROJECT PHASE/SITE/TASK.	CTO OR DO NUMBER:	LAB PO NUMBER:	FAX AND MAIL REPORTS/EDD TO.. RECIPIENT 2 (Name and Company)	RECIPIENT 2 (Address, Tel No. , and Fax No)
103rd Street Monthly Air	0029	1760	Jennifer Zimmerman / J.A Jones Env. Services	6219 Authority Ave. Building 1 Jacksonville, FL 32215 (904) 7774812 FAX: (904) 7774262
PROJECT CONTACT	PROJECT TEL NO AND FAX NO:	LAB TEL NO AND FAX NO	FAX AND MAIL REPORTS/EDD TO.: RECIPIENT 3 (Name and Company)	RECIPIENT 3 (Address, Tel No , and Fax No)
David Garrity	Ph:(904)777-4812 Fax:(904) 777-4262	Ph:(802) 655-1203	Jeff Wilmoth / CH2M Hill Constuctors, Inc.	115 Perimeter Center Place, N.E. Suite 700 Atlanta, GA 30346 (770)604-9182 Ext.561 FAX:604-9282

ITEM	SAMPLE IDENTIFIER	SAMPLE DESCRIPTION/LOCATION	MATRIX (see codes on back)	DATE COLLECTED	TIME COLLECTED	DATA PKG LEVEL (see codes on back)	TAT (calendar days)	ANALYSES REQUIRED (Include Method Numbers) Volatiles by 18 / TO 14									SAMPLE TYPE (see codes on back)	COMMENTS/ SCREENING READINGS	LAB I
1	029-ACA-I-A-1211-00-07	Pre Carbon Units	A	12/11/00	14:15	III/B	7	1									Grab	Summa Canister	AC060
2	029-ACA2-I-A-1211-00-07	Mid Carbon Units	A	12/11/00	14:20	III/B	7	1									Grab	Summa Canister	60
3	029-ACA-E-A-1211-00-07	Post Carbon Units	A	12/11/00	14:25	III/B	7	1									Grab	Summa Canister	60
4																			
5																			
6																			
7																			
8																			
9																			
10																			

SAMPLER(S) AND COMPANY (please print)	COURIER AND SHIPPING NUMBER:	SAMPLES TEMPERATURE AND CONDITION UPON RECEIPT
Randy Dumaop / Scott Sloan J.A. Jones Environmental Services	Federal Express TRK# 791791909377	N/A

RELINQUISHED BY	DATE	TIME	RECEIVED BY	DATE	TIME
Printed Name and Signature:			Printed Name and Signature		
R.Dumaop	12/12/00	11:00	Federal Express	12/12/00	11:00
Printed Name and Signature			Printed Name and Signature.		
Printed Name and Signature:			Printed Name and Signature: Frank Bissette	12-15-00	1000

Distribution. [ ] Original - Laboratory (To be returned with Analytical Report); [ ] Copy 1 - Project File; [ ] Copy 2 - PMO

Form CC1001, Rev 02/00

SEVERN
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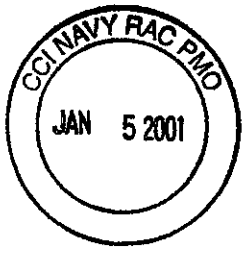
Severn Trent Laboratories, Inc.

NARRATIVE



SEVERN TRENT SERVICES

STL Burlington
Suite 1
208 South Park Drive
Colchester, VT 05446

Tel: 802 655 1203
Fax: 802 655 1248
www.stl-inc.com

December 27, 2000

Mr. David Fuller
Accura Analytical Laboratories
6017 Financial Drive
Norcross, GA 30071

Re: Laboratory Project No. 20031
Case: 20031; SDG: 81024

Dear Mr. Fuller:

Enclosed are the analytical results of samples received intact by Severn Trent Laboratories on December 15, 2000. Laboratory numbers have been assigned and designated as follows:

Lab ID	Client Sample ID	Sample Date	Sample Matrix
	Received: 12/15/00	ETR No: 81024	
440589	029ACAIA12110007	12/11/00	Air
440590	029ACA2IA12110007	12/11/00	Air
440591	029ACAEA12110007	12/11/00	Air

Method TO-14A Modified-Volatile Organics;
Please note that due to a limitation of characters inherent in the reporting software, some characters of the client identification above were truncated.

The laboratory noted no exceptions to method quality control requirements for this analytical work.

If there are any questions regarding this submittal, please contact Ron Pentkowski at (802) 655-1203.

This report shall not be reproduced, except in full, without the written approval of the laboratory. This report is sequentially numbered starting with page 001 and ending with page 121.

SEVERN
TRENT
SERVICES

STL Burlington

I certify that this package is in compliance with the NELAC requirements, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Director or his designee, as verified by the following signature.

Sincerely,

Christopher A. Ouellette
Laboratory Director

RAP/mpg
Enclosure

CCC173 last alpha

SEVERN TRENT SERVICES

STL Burlington

The following Qualifiers may be used when reporting any Organic parameters analyzed by Gas Chromatography/mass Spectometry (GCMS). Any additional qualifiers used in the reports will be described in the case narrative. These flags are based on the EPA Contract Laboratory Program statement of work.

GC/MS Qualifiers

A- The reported Tentatively Identified Compound (TIC) is a suspected Aldol-condensation product.

B- The reported analyte was detected in the associated method blank as well as the sample.

D - This flag identifies all compounds identified in an analysis at a secondary dilution factor. This flag alerts data users that any discrepancies between the concentrations reported for the dilutions may be due to dilution of the sample or extract. It additionally indicates that spike recoveries may have been diluted below quantifiable levels.

E- Compound quantitation is above the instrument's calibration range for this analysis.

J - Indicates an estimated value. This flag is used when the result is less than the reporting limit, but > ½ reporting limit.

U- Indicates compound was analyzed for but not detected above the reporting limit.

X,Y,Z - Laboratory defined flags. These flags must be fully described, and such description attached to the Sample Data Summary Package and the case Narrative. Begin by using "X" and go on to "Y" as necessary. These flags may also be used to combine several flags, as needed.

CH2M Hill Constructors, Inc.
115 Perimeter Center Place, Suite 700
Atlanta, GA 30346-1278
Tel No (770) 604-9182 ; Fax No (770) 604-9282

CHAIN-OF-CUSTODY RECORD

COC NUMBER
154282-07

PROJECT NAME	PROJECT NUMBER	LAB NAME AND CONTACT	FAX AND MAIL REPORTS/EDD TO RECIPIENT 1 (Name and Company)	RECIPIENT 1 (Address, Tel No , and Fax No)
N.A.S Cecil Field 103rd Street	154282	Severn Trent Laboratories/ Ron Pentkowski	Bonnie Hogue Accura Analytical Laboratory	6017 Financial Drive Norcross, GA 30071 (770) 449-8800 Fax:(770) 449-5477
PROJECT PHASE/SITE/TASK	CTO OR DO NUMBER	LAB PO NUMBER	FAX AND MAIL REPORTS/EDD TO RECIPIENT 2 (Name and Company)	RECIPIENT 2 (Address, Tel No , and Fax No)
103rd Street Monthly Air	0029	1760	Jennifer Zimmerman / J.A Jones Env. Services	6219 Authority Ave. Building 1 Jacksonville, FL 32215 (904) 7774812 FAX: (904) 7774262
PROJECT CONTACT	PROJECT TEL NO AND FAX NO	LAB TEL NO AND FAX NO	FAX AND MAIL REPORTS/EDD TO RECIPIENT 3 (Name and Company)	RECIPIENT 3 (Address, Tel No , and Fax No)
David Garrity	Ph:(904)777-4812 Fax:(904) 777-4262	Ph:(802) 655-1203	Jeff Wilmoth / CH2M Hill Constuctors, Inc.	115 Perimeter Center Place, N.E. Suite 700 Atlanta, GA 30346 (770)604-9182 Ext.561 FAX:604-9282

ITEM	SAMPLE IDENTIFIER	SAMPLE DESCRIPTION/LOCATION	MATRIX (see codes on back)	DATE COLLECTED	TIME COLLECTED	DATA PKG LEVEL (see codes on back)	TAT (calendar days)	ANALYSES REQUIRED (Include Method Numbers) Volatiles by 18 / TO 14									SAMPLE TYPE (see codes on back)	COMMENTS/ SCREENING READINGS	LAB ID
1	029-ACA-I-A-1211-00-07	Pre Carbon Units	A	12/11/00	14:15	III/B	7	1									Grab	Summa Canister	003
2	029-ACA2-I-A-1211-00-07	Mid Carbon Units	A	12/11/00	14:20	III/B	7	1									Grab	Summa Canister	003
3	029-ACA-E-A-1211-00-07	Post Carbon Units	A	12/11/00	14:25	III/B	7	1									Grab	Summa Canister	
4																			
5																			
6																			
7																			
8																			
9																			
10																			

SAMPLER(S) AND COMPANY (please print)	COURIER AND SHIPPING NUMBER	SAMPLES TEMPERATURE AND CONDITION UPON RECEIPT
Randy Dumaop / Scott Sloan J.A. Jones Environmental Services	Federal Express TRK# 791719099377	

RELINQUISHED BY	DATE	TIME	RECEIVED BY	DATE	TIME
Printed Name and Signature			Printed Name and Signature		
R.Dumaop	12/12/00	11:00	Federal Express	12/12/00	11:00
Printed Name and Signature			Printed Name and Signature		
Printed Name and Signature.			Printed Name and Signature		
			Frank Bostick	12-15-00	1000

Distribution: [ ] Original - Laboratory (To be returned with Analytical Report), [ ] Copy 1 - Project File, [ ] Copy 2 - PMO

Form CC1001, Rev 02/00

SEVERN TRENT SERVICES

Severn Trent Laboratories, Inc.

METHOD TO-14A
VOLATILE ORGANIC ANALYSIS

QC SUMMARY

FORM 3
AIR VOLATILE LAB CONTROL SAMPLE

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 81024

Matrix Spike - STLVT Sample No.: L4_ICVLCS

COMPOUND	SPIKE ADDED (ppbv)	SAMPLE CONCENTRATION (ug/L)	LCS CONCENTRATION (ppbv)	LCS % REC #	QC. LIMITS REC.
Chloromethane	10		9.5	95	70-130
Vinyl Chloride	10		9.5	95	70-130
Bromomethane	10		9.1	91	70-130
Chloroethane	10		9.0	90	70-130
Trichlorofluoromethane	10		9.4	94	70-130
Methylene Chloride	10		8.7	87	70-130
1,1-Dichloroethane	10		9.4	94	70-130
cis-1,2-Dichloroethene	10		9.4	94	70-130
Chloroform	10		9.4	94	70-130
1,1,1-Trichloroethane	10		9.1	91	70-130
Carbon Tetrachloride	10		9.6	96	70-130
Benzene	10		9.3	93	70-130
1,2-Dichloroethane	10		9.7	97	70-130
Trichloroethene	10		9.7	97	70-130
1,2-Dichloropropane	10		9.5	95	70-130
cis-1,3-Dichloropropene	10		9.5	95	70-130
Toluene	10		9.6	96	70-130
trans-1,3-Dichloroprope	10		8.6	86	70-130
1,1,2-Trichloroethane	10		9.7	97	70-130
Tetrachloroethene	10		9.2	92	70-130
Chlorobenzene	10		9.3	93	70-130
Ethylbenzene	10		9.6	96	70-130
Styrene	10		11	110	70-130
Xylene (m,p)	20		19	95	70-130
Xylene (o)	10		9.6	96	70-130
1,1,2,2-Tetrachloroetha	10		9.9	99	70-130
1,3-Dichlorobenzene	10		10	100	70-130
1,4-Dichlorobenzene	10		10	100	70-130

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

* Values outside of QC limits

COMMENTS: _____

FORM 3
AIR VOLATILE LAB CONTROL SAMPLE

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 81024

Matrix Spike - STLVT Sample No.: L4_ICVLCS

COMPOUND	SPIKE ADDED (ppbv)	SAMPLE CONCENTRATION (ug/L)	LCS CONCENTRATION (ppbv)	LCS % REC #	QC. LIMITS REC.
1,2-Dichlorobenzene	10		10	100	70-130

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

* Values outside of QC limits

RPD: 0 out of 0 outside limits
Spike Recovery: 0 out of 29 outside limits

COMMENTS: _____

FORM 4
VOLATILE METHOD BLANK SUMMARY

STLVT SAMPLE NO.

ABLKL4

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 81024

Lab File ID: CEB001 Lab Sample ID: ABLKL4

Date Analyzed: 12/18/00 Time Analyzed: 1525

GC Column: DB-1 ID: 0.35 (mm) Heated Purge: (Y/N) N

Instrument ID: W

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

	STLVT SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	L4_ICVLCS	L4_ICVLCS	CE010Q	1417
02	CAIA12110007	440589	440589	1635
03	A2IA12110007	440590	440590	1707
04	CAEA12110007	440591	440591	1741
05				
06				
07				
08				
09				
10				
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12				
13				
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16				
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19				
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22				
23				
24				
25				
26				
27				
28				
29				
30				

COMMENTS:

FORM 5
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 81024

Lab File ID: CE001P BFB Injection Date: 12/18/00

Instrument ID: W BFB Injection Time: 0805

GC Column: DB-1 ID: 0.32 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	21.8
75	30.0 - 66.0% of mass 95	48.6
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.4
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	50.0 - 120.0% of mass 95	68.9
175	4.0 - 9.0% of mass 174	5.0 (7.3)1
176	93.0 - 101.0% of mass 174	66.2 (96.2)1
177	5.0 - 9.0% of mass 176	4.4 (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	ASTD020	ASTD020	CE020	12/18/00	1004
02	ASTD040	ASTD040	CE040	12/18/00	1038
03	ASTD005	ASTD005	CE005	12/18/00	1114
04	ASTD0005	ASTD0005	CE0005I2	12/18/00	1223
05	ASTD010	ASTD010	CE010I2	12/18/00	1344
06	L4_ICVLCS	L4_ICVLCS	CE010Q	12/18/00	1417
07	ABLKL4	ABLKL4	CEB001	12/18/00	1525
08	CAIA12110007	440589	440589	12/18/00	1635
09	A2IA12110007	440590	440590	12/18/00	1707
10	CAEA12110007	440591	440591	12/18/00	1741
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

FORM 8
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 81024

Lab File ID (Standard): CE010I2 Date Analyzed: 12/18/00

Instrument ID: W Time Analyzed: 1344

GC Column: DB-1 ID: 0.35 (mm) Heated Purge: (Y/N) N

		IS1 (BCM) AREA #	RT #	IS2 (CBZ) AREA #	RT #	IS3 (DFB) AREA #	RT #
	12 HOUR STD	335524	7.62	1506068	11.84	1443226	8.96
	UPPER LIMIT	805258	7.95	3614563	12.17	3463742	9.29
	LOWER LIMIT	134210	7.29	602427	11.51	577290	8.63
	CLIENT SAMPLE NO.						
01	L4_ICVLCS	339941	7.62	1534243	11.84	1434000	8.96
02	ABLKL4	297081	7.64	1481319	11.84	1382662	8.97
03	CAIA12110007	276854	7.59	1060364	11.83	1017241	8.94
04	A2IA12110007	276416	7.59	1098375	11.82	1239101	8.93
05	CAEA12110007	312119	7.58	1247750	11.81	1270164	8.93
06							
07							
08							
09							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							

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

AREA UPPER LIMIT = +140% of internal standard area
AREA LOWER LIMIT = - 60% of internal standard area
RT UPPER LIMIT = + 0.33 minutes of internal standard RT
RT LOWER LIMIT = - 0.33 minutes of internal standard RT

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

SEVERN TRENT SERVICES

Severn Trent Laboratories, Inc.

METHOD TO-14A
VOLATILE ORGANIC ANALYSIS

SUPPORTIVE DOCUMENTATION

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

ACCANA SAMPLE NO.

A2IA12110007

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 81024

Matrix: (soil/water) AIR Lab Sample ID: 440590

Sample wt/vol: 200 (g/mL) ML Lab File ID: 440590

Level: (low/med) LOW Date Received: 12/15/00

% Moisture: not dec. _____ Date Analyzed: 12/18/00

GC Column: DB-1 ID: 0.35 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) PPBV	Q
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl Chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-09-2	Methylene Chloride	0.79	
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
67-66-3	Chloroform	0.67	
71-55-6	1,1,1-Trichloroethane	0.50	U
56-23-5	Carbon Tetrachloride	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-88-3	Toluene	1.2	
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
1330-20-7	Xylene (total)	0.50	U
100-42-5	Styrene	0.50	U
1330-20-7	Xylene (m,p)	0.50	U
95-47-6	Xylene (o)	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

ACCANA SAMPLE NO.

A2IA12110007

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 81024

Matrix: (soil/water) AIR Lab Sample ID: 440590

Sample wt/vol: 200 (g/mL) ML Lab File ID: 440590

Level: (low/med) LOW Date Received: 12/15/00

% Moisture: not dec. _____ Date Analyzed: 12/18/00

GC Column: DB-1 ID: 0.35 (mm) Dilution Factor: 1.0

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

Number TICs found: 10

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

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		UNKNOWN ALIPHATIC COMPOUND	13.07	18	J
2.		UNKNOWN ALIPHATIC COMPOUND	13.21	19	J
3.		UNKNOWN ALIPHATIC COMPOUND	13.49	26	J
4.		UNKNOWN	13.57	16	J
5.		UNKNOWN C3-ALKYLBENZENE	13.62	17	J
6.		UNKNOWN C4-ALKYLBENZENE	14.06	14	J
7.		UNKNOWN C3-ALKYLBENZENE	14.13	24	J
8.		UNKNOWN	14.31	54	J
9.		UNKNOWN C4-ALKYLBENZENE	14.43	12	J
10.	493-02-7	NAPHTHALENE, DECAHYDRO-, TRA	14.74	15	NJ
11.					
12.					
13.					
14.					
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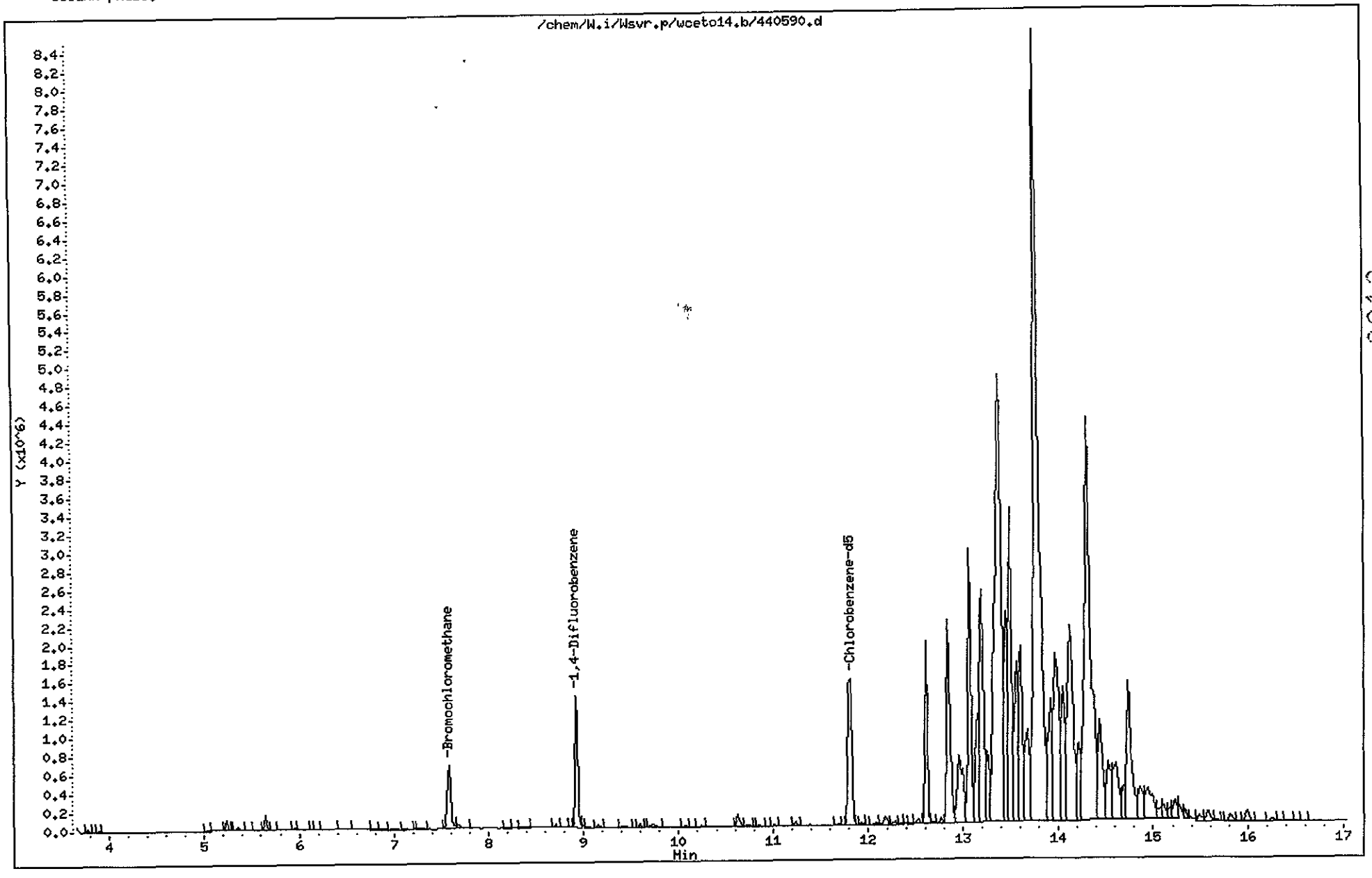
25.					
26.					
27.					
28.					
29.					
30.					

Data File: /chem/W.i/Wsvr.p/wceto14.b/440590.d
Date : 18-DEC-2000 17:07
Client ID: A2IA12110007
Sample Info: 440590;029ACA2IA12110007;81024;1218L4
Purge Volume: 200.0
Column phase: DB-1

Instrument: W.i

Operator: GMM
Column diameter: 0.35



0013

STL Burlington

AIR TOXICS QUANTITATION REPORT

Data file : /chem/W.i/Wsvr.p/wceto14.b/440590.d
Lab Smp Id: 440590 Client Smp ID: A2IA12110007
Inj Date : 18-DEC-2000 17:07
Operator : GMM Inst ID: W.i
Smp Info : 440590;029ACA2IA12110007;81024;1218L4
Misc Info :
Comment :
Method : /chem/W.i/Wsvr.p/wceto14.b/ato14.m
Meth Date : 26-Dec-2000 14:40 mim Quant Type: ISTD
Cal Date : 18-DEC-2000 13:44 Cal File: ce010i2.d
Als bottle: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ACCANA2.sub
Target Version: 3.50
Processing Host: chemsvr4

Concentration Formula: Amt * DF * X* Uf/Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
X	200.00000	method volume factor
Uf	1.00000	ng unit correction factor
Vo	200.00000	Sample Volume purged (mL)

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)
	2 Chloromethane	50	Compound Not Detected.					
	4 Vinyl Chloride	62	Compound Not Detected.					
	5 Bromomethane	94	Compound Not Detected.					
	6 Chloroethane	64	Compound Not Detected.					
	7 Trichlorofluoromethane	101	Compound Not Detected.					
	9 Methylene Chloride	49	5.952	5.982	(0.784)	21243	0.79153	0.79
	11 1,1-Dichloroethane	63	Compound Not Detected.					
	12 cis-1,2-Dichloroethene	61	Compound Not Detected.					
*	13 Bromochloromethane	128	7.591	7.621	(1.000)	276416	10.0000	
	14 Chloroform	83	7.667	7.697	(1.010)	36367	0.66850	0.67
	15 1,2-Dichloroethane	62	Compound Not Detected.					
	16 1,1,1-Trichloroethane	97	Compound Not Detected.					
	17 Benzene	78	Compound Not Detected.					
	18 Carbon Tetrachloride	117	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	FINAL (ppbv)
*	19 1,4-Difluorobenzene	114	8.926	8.956	(1.000)	1239101	10.0000	
	20 1,2-Dichloropropane	63	Compound Not Detected.					
	21 Trichloroethene	95	Compound Not Detected.					
	22 cis-1,3-Dichloropropene	75	Compound Not Detected.					
	23 trans-1,3-Dichloropropene	75	Compound Not Detected.					
	24 1,1,2-Trichloroethane	83	Compound Not Detected.					
	25 Toluene	92	10.641	10.656	(0.900)	52490	1.20497	1.2
	27 Tetrachloroethene	166	Compound Not Detected.					
*	28 Chlorobenzene-d5	117	11.825	11.840	(1.000)	1098375	10.0000	
	29 Chlorobenzene	112	Compound Not Detected.					
	30 Ethylbenzene	91	Compound Not Detected.					
	31 Xylene (m,p)	106	Compound Not Detected.					
	32 Styrene	104	Compound Not Detected.					
M	33 Xylene (total)	106	Compound Not Detected.					
	34 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					
	35 Xylene (o)	106	Compound Not Detected.					
	38 1,3-Dichlorobenzene	146	Compound Not Detected.					
	39 1,4-Dichlorobenzene	146	Compound Not Detected.					
	40 1,2-Dichlorobenzene	146	Compound Not Detected.					

STL Burlington

AIR TOXICS QUANTITATION REPORT

Data file : /chem/W.i/Wsvr.p/wceto14.b/440590.d
Lab Smp Id: 440590 Client Smp ID: A2IA12110007
Inj Date : 18-DEC-2000 17:07
Operator : GMM Inst ID: W.i
Smp Info : 440590;029ACA2IA12110007;81024;1218L4
Misc Info :
Comment :
Method : /chem/W.i/Wsvr.p/wceto14.b/ato14.m
Meth Date : 26-Dec-2000 14:40 mim Quant Type: ISTD
Cal Date : 18-DEC-2000 13:44 Cal File: ce010i2.d
Als bottle: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ACCANA2.sub
Target Version: 3.50
Processing Host: chemsvr4

Concentration Formula: Amt * DF * X* Uf/Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
X	200.00000	method volume factor
Uf	1.00000	ng unit correction factor
Vo	200.00000	Sample Volume purged (mL)

Cpnd Variable Local Compound Variable

ISTD	RT	AREA	AMOUNT
* 28 Chlorobenzene-d5	11.825	3648829	10.000

	CONCENTRATIONS			QUANT			
RT	AREA	ON-COL(ppbv)	FINAL(ppbv)	QUAL	LIBRARY	LIB ENTRY	CPND #
Unknown aliphatic compound				CAS #:			
13.069	6646591	18.2156781	18	0	0		28(L)
Unknown aliphatic compound				CAS #:			
13.206	6787845	18.6027997	19	0	0		28

RT	AREA	CONCENTRATIONS ON-COL(ppbv)	FINAL(ppbv)	QUAL	QUANT LIBRARY	LIB ENTRY	CPND #
Unknown aliphatic compound					CAS #:		
13.494	9634993	26.4057060	26	0		0	28
Unknown					CAS #:		
13.570	5976825	16.3801130	16	0		0	28
Unknown C3-alkylbenzene					CAS #:		
13.615	6105568	16.7329463	17	0		0	28
Unknown C4-alkylbenzene					CAS #:		
14.056	5161490	14.1456037	14	0		0	28
Unknown C3-alkylbenzene					CAS #:		
14.131	8801393	24.1211362	24	0		0	28
Unknown					CAS #:		
14.314	19768953	54.1788833	54	0		0	28(L)
Unknown C4-alkylbenzene					CAS #:		
14.435	4398821	12.0554282	12	0		0	28
Naphthalene, decahydro-, trans-					CAS #: 493-02-7		
14.738	5496622	15.0640672	15	98	NBS75K.l	65957	28(L)

QC Flag Legend

L - Operator selected an alternate library search match.

Data File: /chem/W.i/Wsvr.p/wceto14.b/440590.d

Date : 18-DEC-2000 17:07

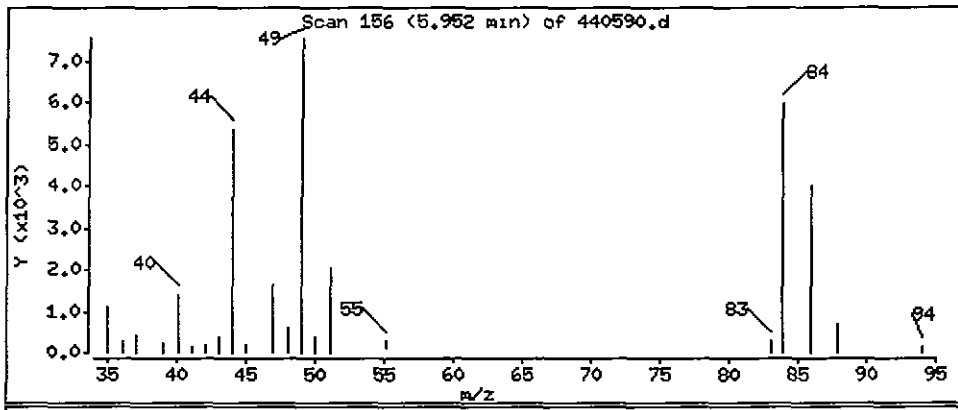
Client ID: A2IA12110007 Instrument: W.i

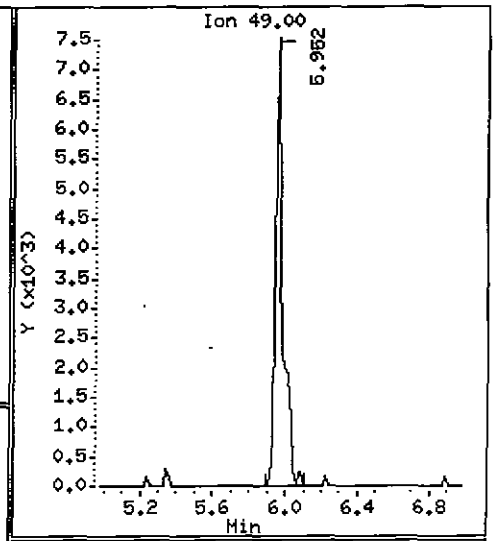
Sample Info: 440590;029ACA2IA12110007;81024;1218L4

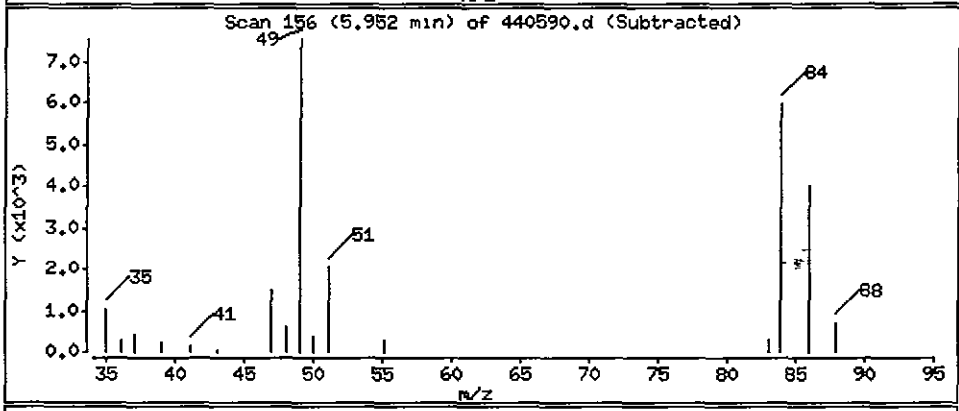
Purge Volume: 200.0 Operator: GHH

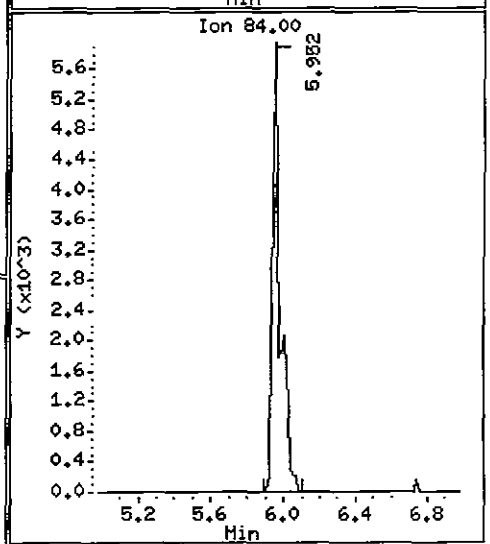
Column phase: DB-1 Column diameter: 0.35

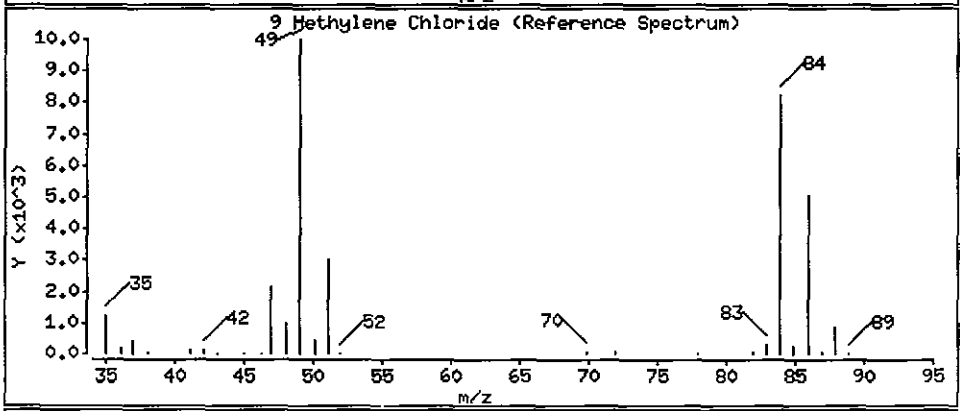
9 Methylene Chloride Concentration: 0.79 ppbv

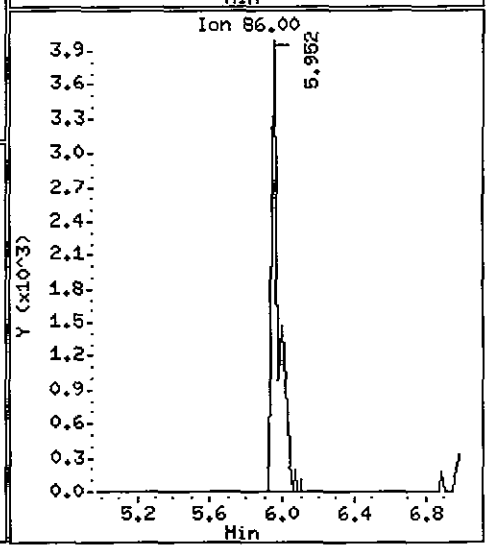


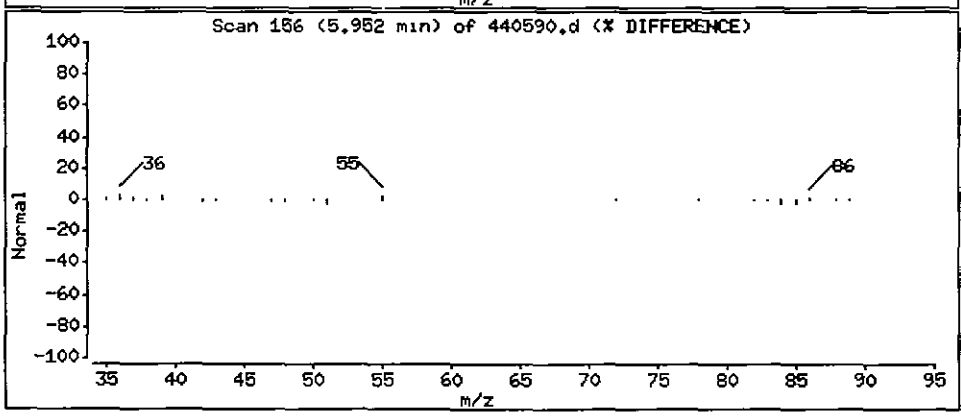












Data File: /chem/W.i/Wsvr.p/woeto14.b/440590.d

Date : 18-DEC-2000 17:07

Client ID: A2IA12110007

Instrument: W.i

Sample Info: 440590;029ACA2IA12110007;81024;1218L4

Purge Volume: 200.0

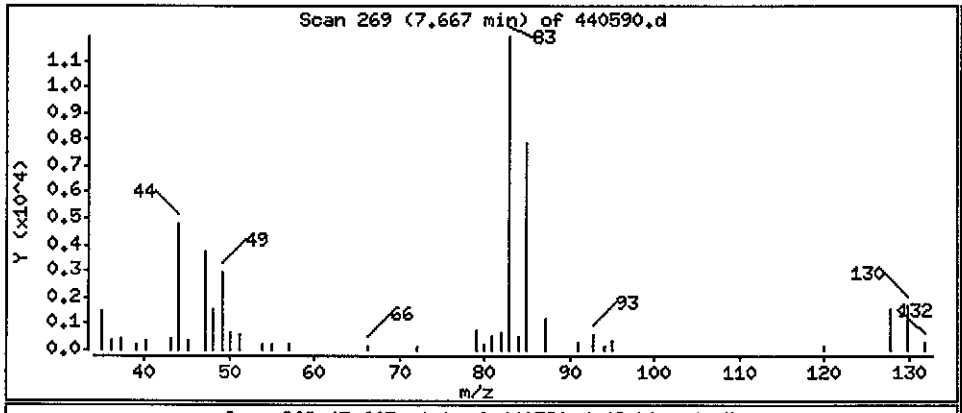
Operator: GMM

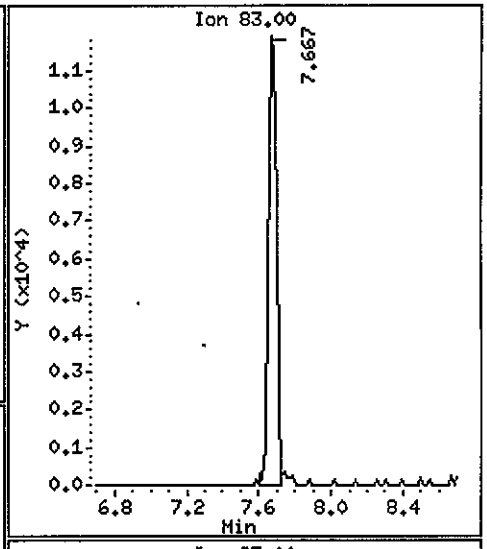
Column phase: DB-1

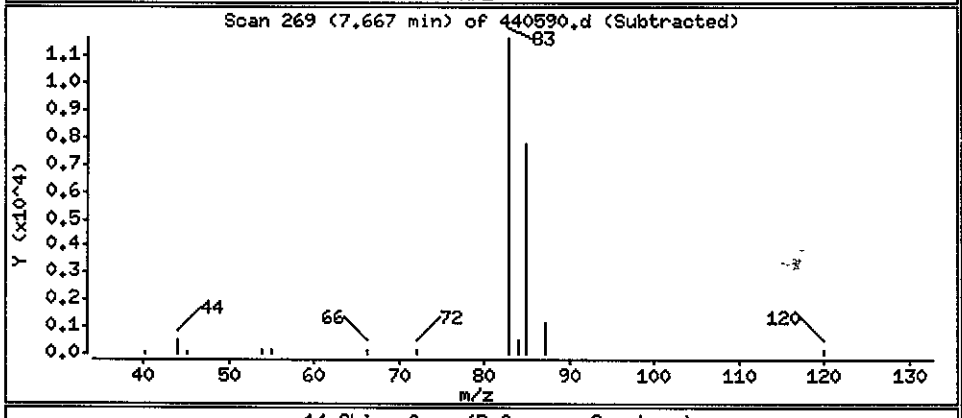
Column diameter: 0.35

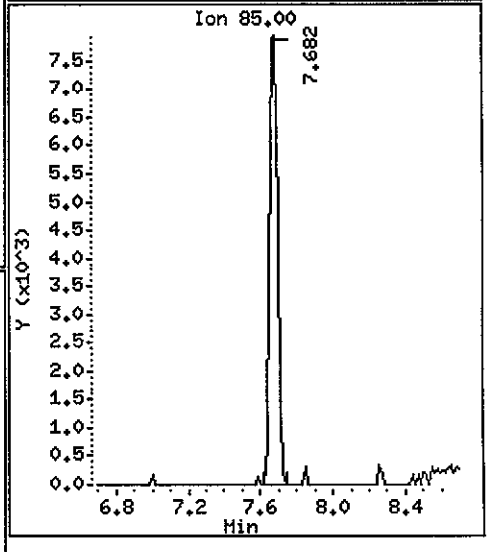
14 Chloroform

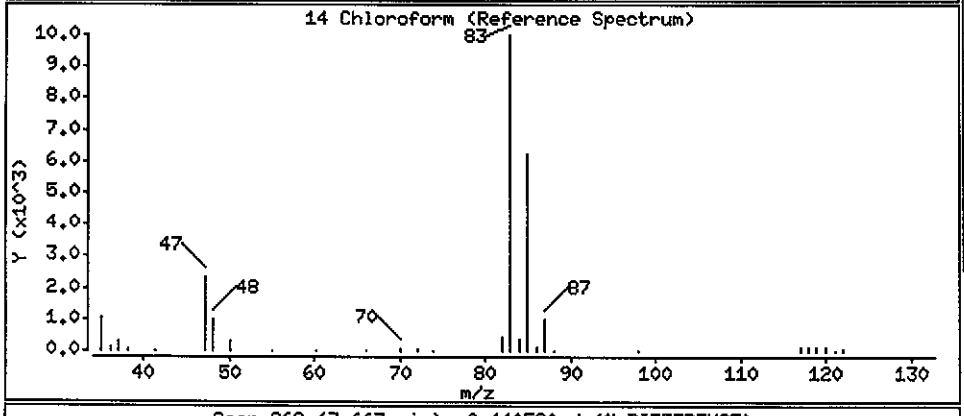
Concentration: 0.67 ppbv

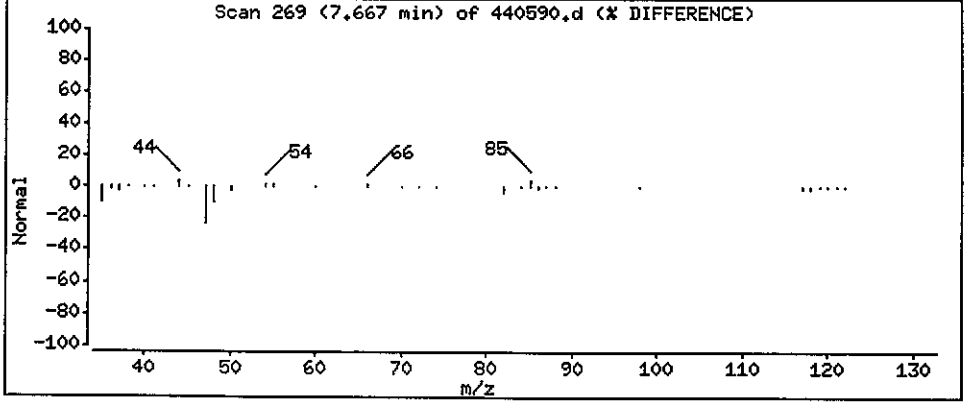












Data File: /chem/W.i/Wsvr.p/wceto14.b/440590.d

Date : 18-DEC-2000 17:07

Client ID: A2IA12110007

Instrument: W.i

Sample Info: 440590;029ACA2IA12110007;81024;1218L4

Purge Volume: 200.0

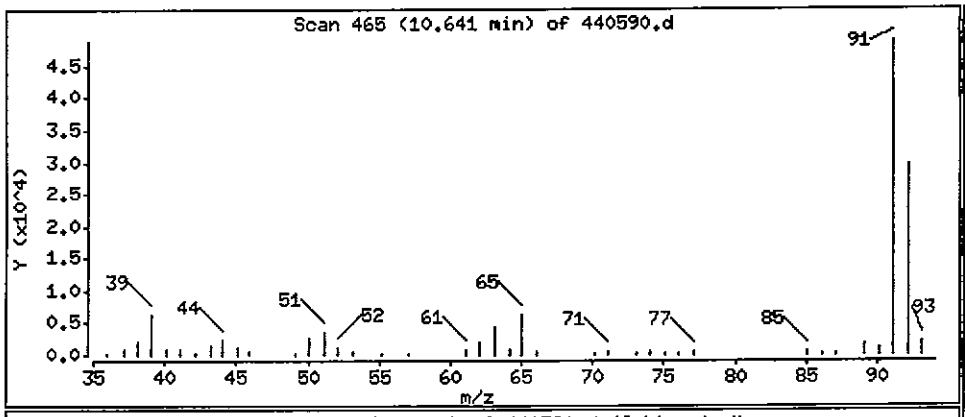
Operator: GHM

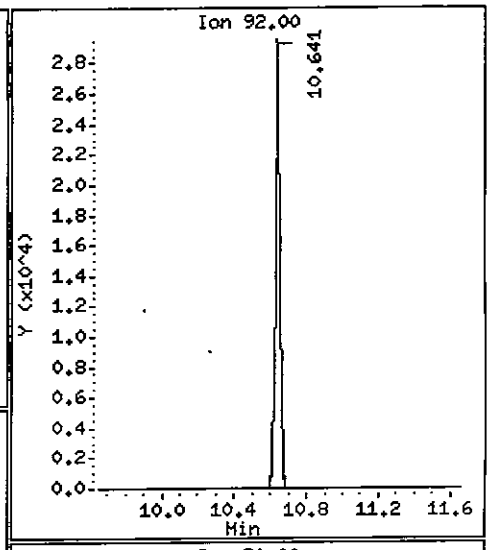
Column phase: DB-1

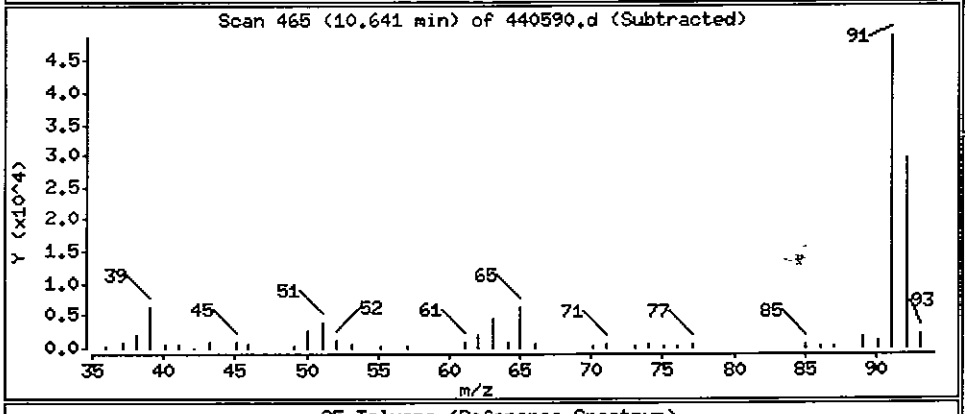
Column diameter: 0.35

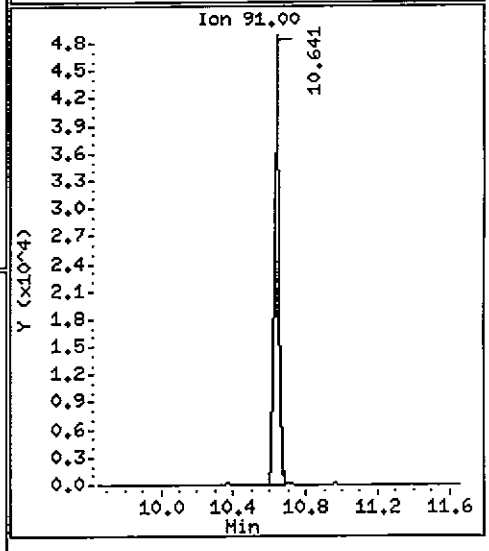
25 Toluene

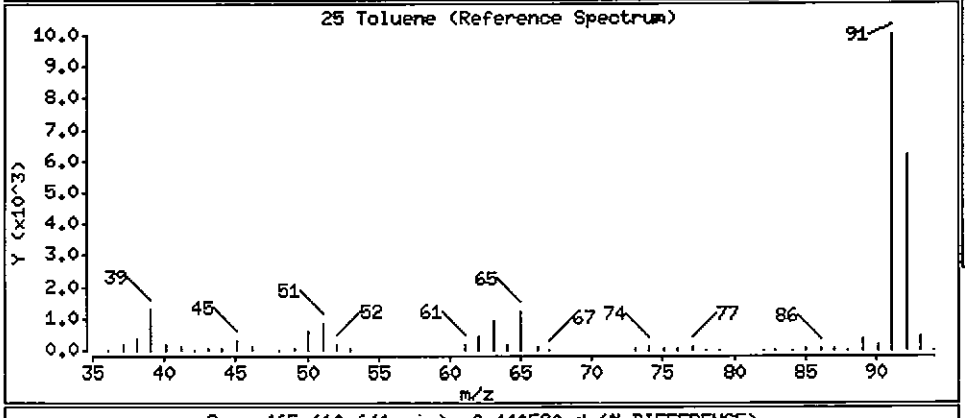
Concentration: 1.2 ppbv

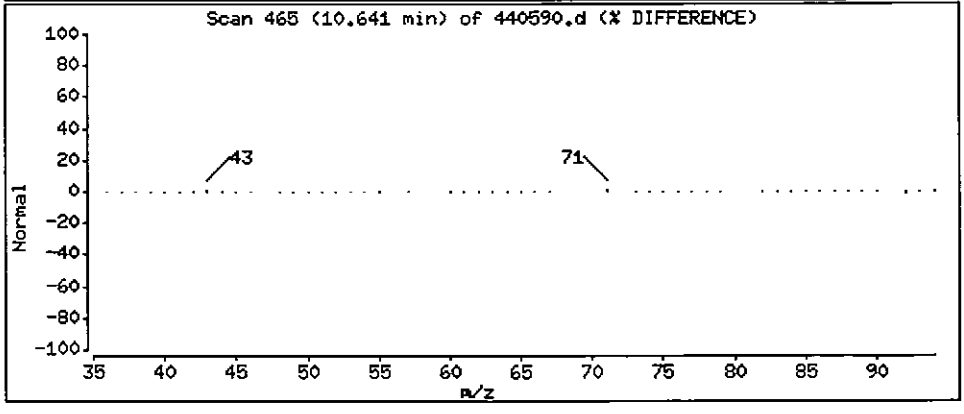












Data File: /chem/W.i/Wsvr.p/wceto14.b/440590.d

Date : 18-DEC-2000 17:07

Client ID: A2IA12110007

Instrument: W.i

Sample Info: 440590;029ACA2IA12110007;81024;1218L4

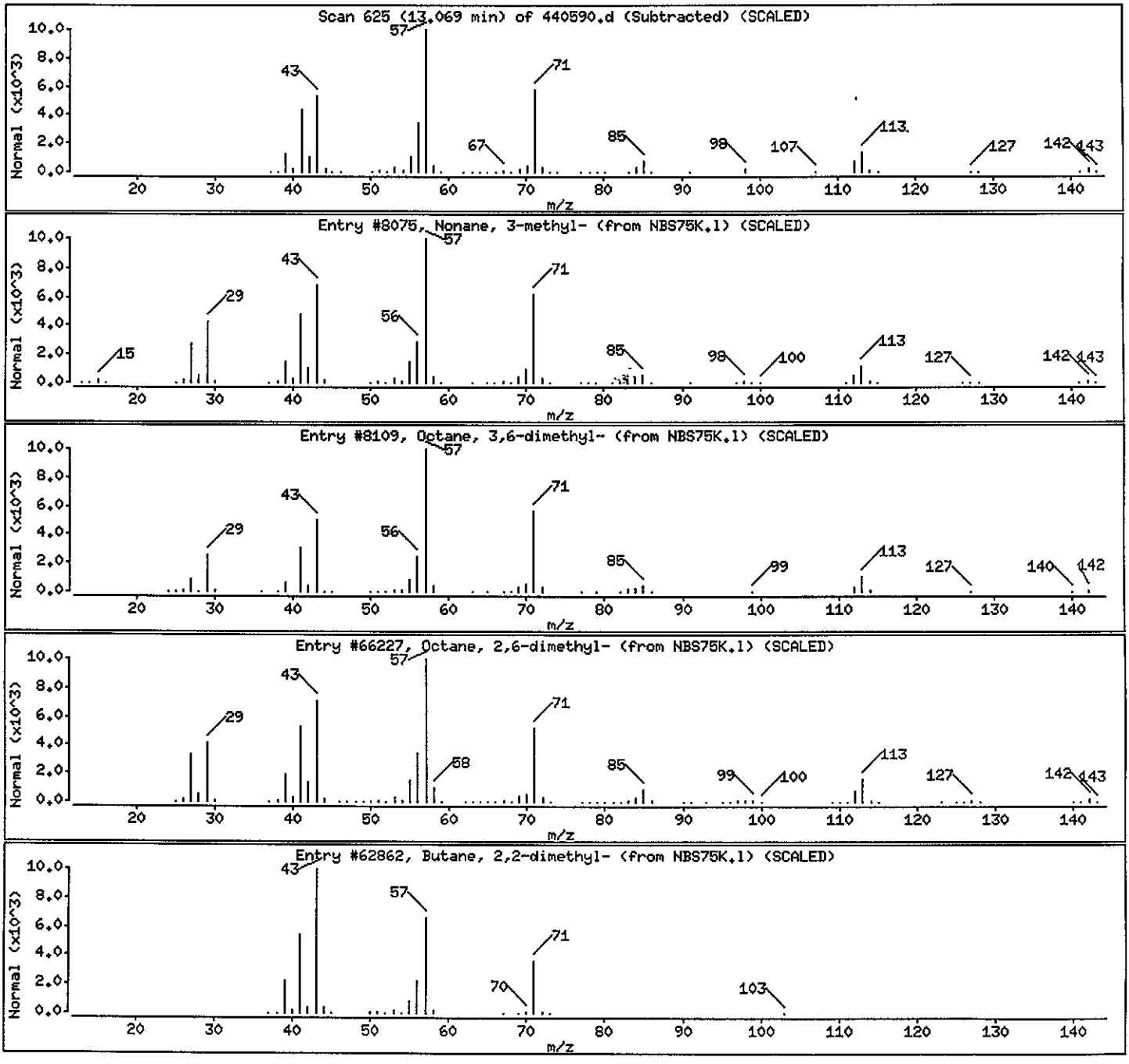
Purge Volume: 200.0

Operator: GMM

Column phase: DB-1

Column diameter: 0.35

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown aliphatic compound						
Nonane, 3-methyl-	5911-04-6	NBS75K.l	8075	91	C10H22	142
Octane, 3,6-dimethyl-	15869-94-0	NBS75K.l	8109	87	C10H22	142
Octane, 2,6-dimethyl-	2051-30-1	NBS75K.l	66227	81	C10H22	142
Butane, 2,2-dimethyl-	75-83-2	NBS75K.l	62862	53	C6H14	86



Data File: /chem/W.i/Wsvr.p/wceto14.b/440590.d

Date : 18-DEC-2000 17:07

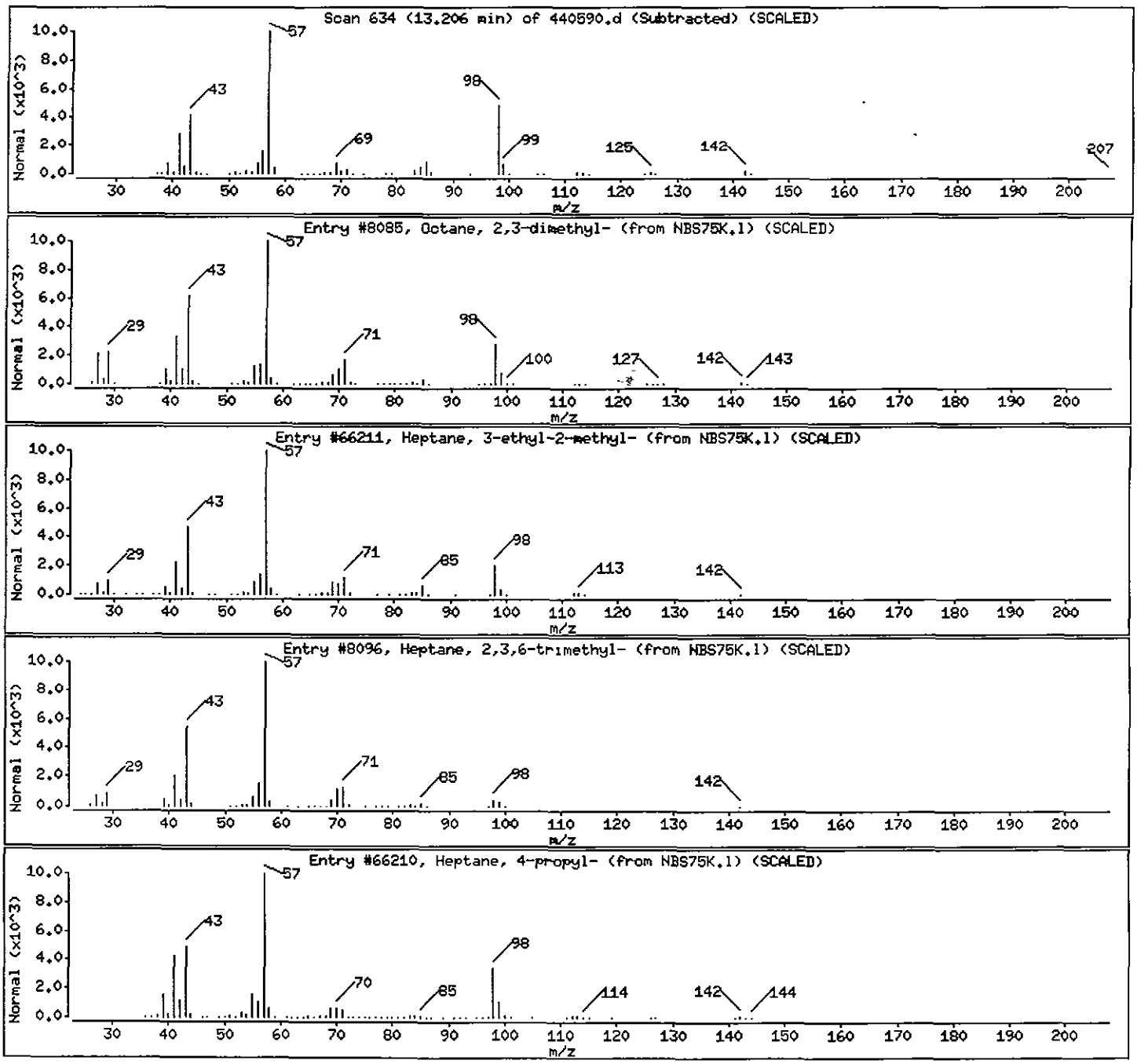
Client ID: A2IA12110007 Instrument: W.i

Sample Info: 440590;029ACA2IA12110007;81024;1218L4

Purge Volume: 200.0 Operator: GHH

Column phase: DB-1 Column diameter: 0.35

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown aliphatic compound						
Octane, 2,3-dimethyl-	7146-60-3	NBS75K.l	8085	64	C10H22	142
Heptane, 3-ethyl-2-methyl-	14676-29-0	NBS75K.l	66211	59	C10H22	142
Heptane, 2,3,6-trimethyl-	4032-93-3	NBS75K.l	8096	47	C10H22	142
Heptane, 4-propyl-	3178-29-8	NBS75K.l	66210	45	C10H22	142



Data File: /chem/W.i/Wsvr.p/wceto14.b/440590.d

Date : 18-DEC-2000 17:07

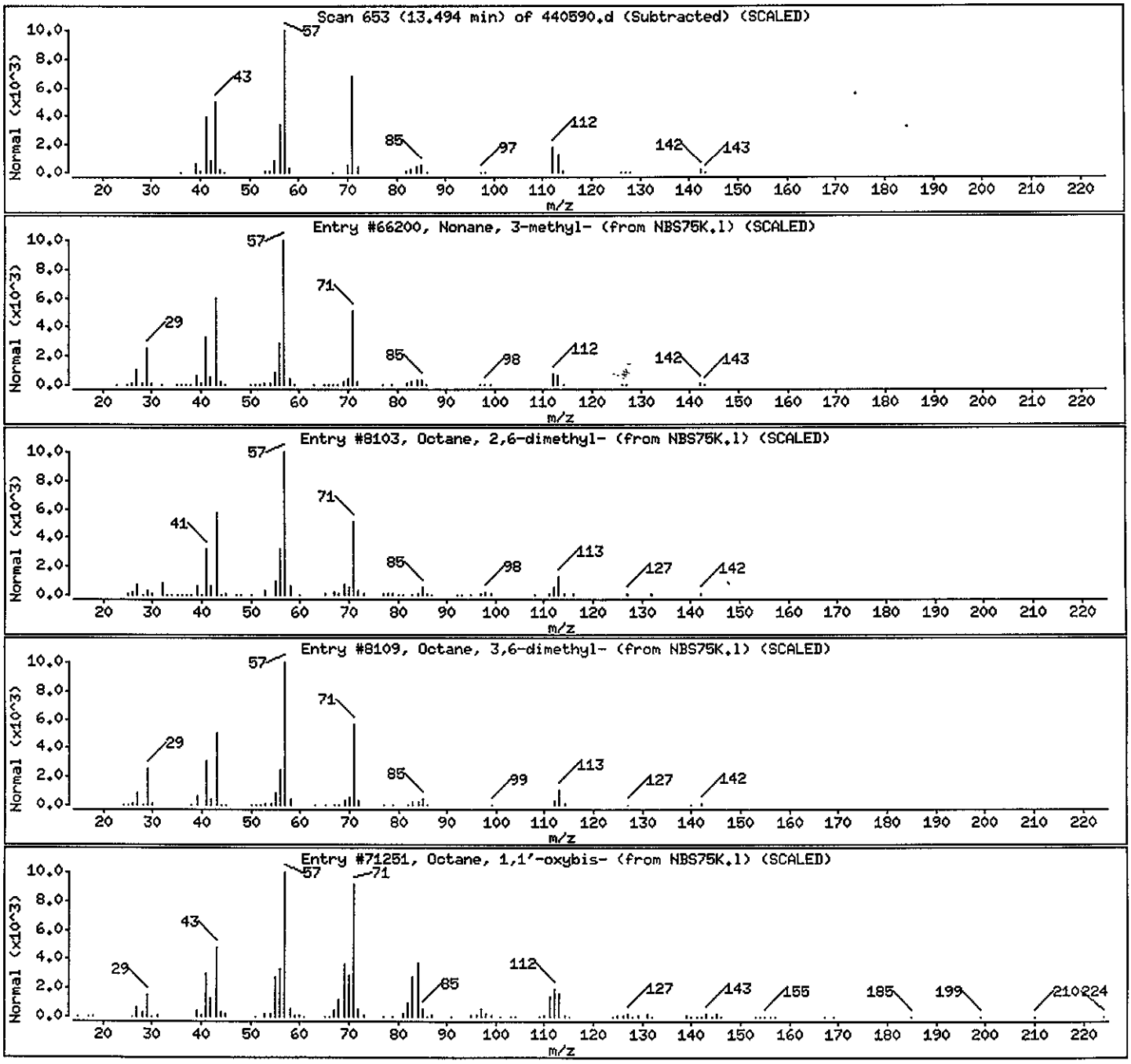
Client ID: A2IA12110007 Instrument: W.i

Sample Info: 440590:029ACA2IA12110007:81024:1218L4

Purge Volume: 200.0 Operator: GMM

Column phase: DB-1 Column diameter: 0.35

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown aliphatic compound						
Nonane, 3-methyl-	5911-04-6	NBS75K.l	66200	91	C10H22	142
Octane, 2,6-dimethyl-	2051-30-1	NBS75K.l	8103	78	C10H22	142
Octane, 3,6-dimethyl-	15869-94-0	NBS75K.l	8109	72	C10H22	142
Octane, 1,1'-oxybis-	629-82-3	NBS75K.l	71251	64	C16H34O	242



Data File: /chem/W.i/Wsvr.p/uceto14.b/440590.d

Date : 18-DEC-2000 17:07

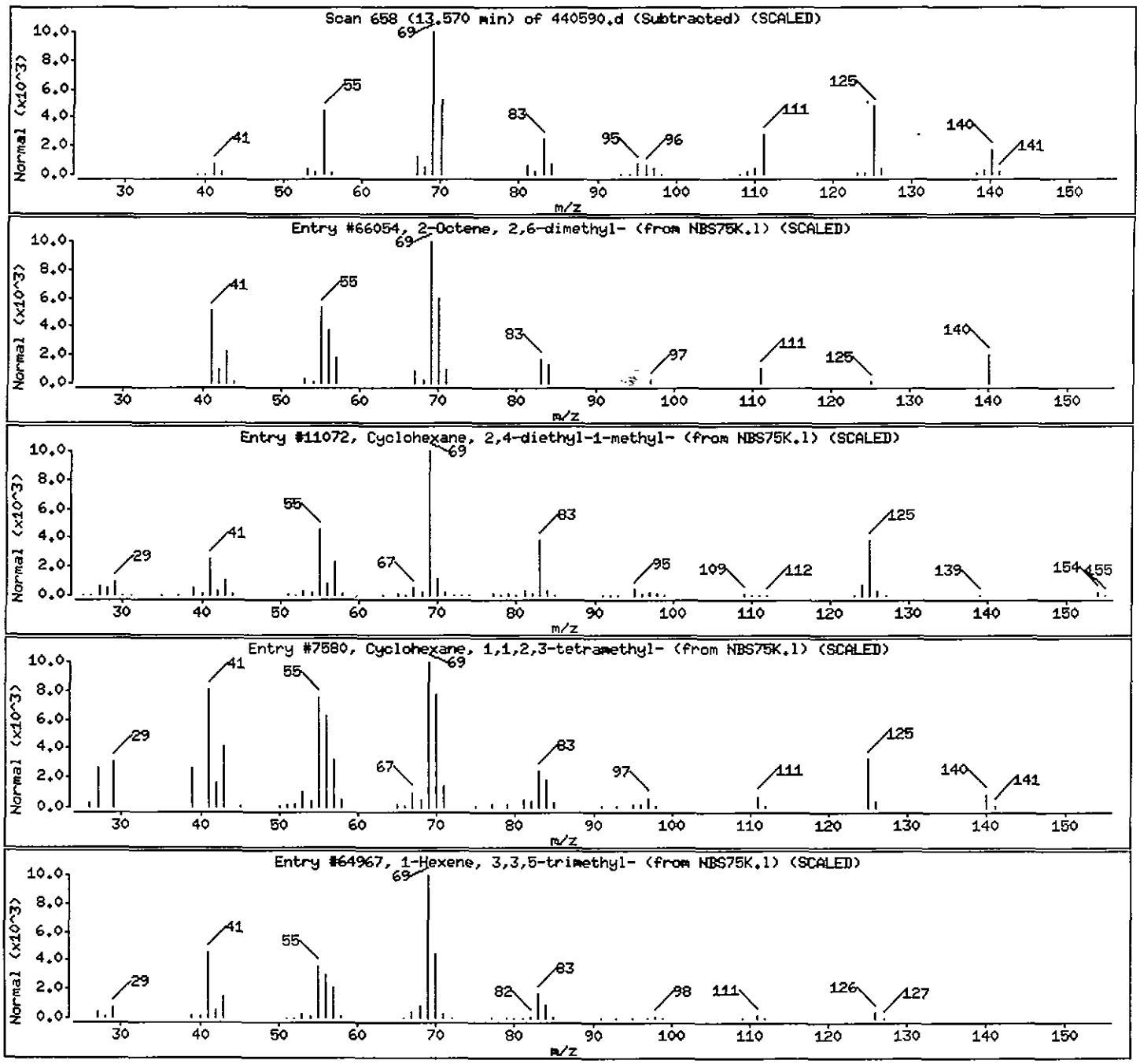
Client ID: A2IA12110007 Instrument: W.i

Sample Info: 440590;029ACA2IA12110007;81024;1218L4

Purge Volume: 200.0 Operator: GMH

Column phase: DB-1 Column diameter: 0.35

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
2-Octene, 2,6-dimethyl-	4057-42-5	NBS75K.l	66054	53	C10H20	140
Cyclohexane, 2,4-diethyl-1-methyl-	61142-70-9	NBS75K.l	11072	47	C11H22	154
Cyclohexane, 1,1,2,3-tetramethyl-	6783-92-2	NBS75K.l	7580	42	C10H20	140
1-Hexene, 3,3,5-trimethyl-	13427-43-5	NBS75K.l	64967	40	C9H18	126



Data File: /chem/W.i/Wsvr.p/wceto14.b/440590.d

Date : 18-DEC-2000 17:07

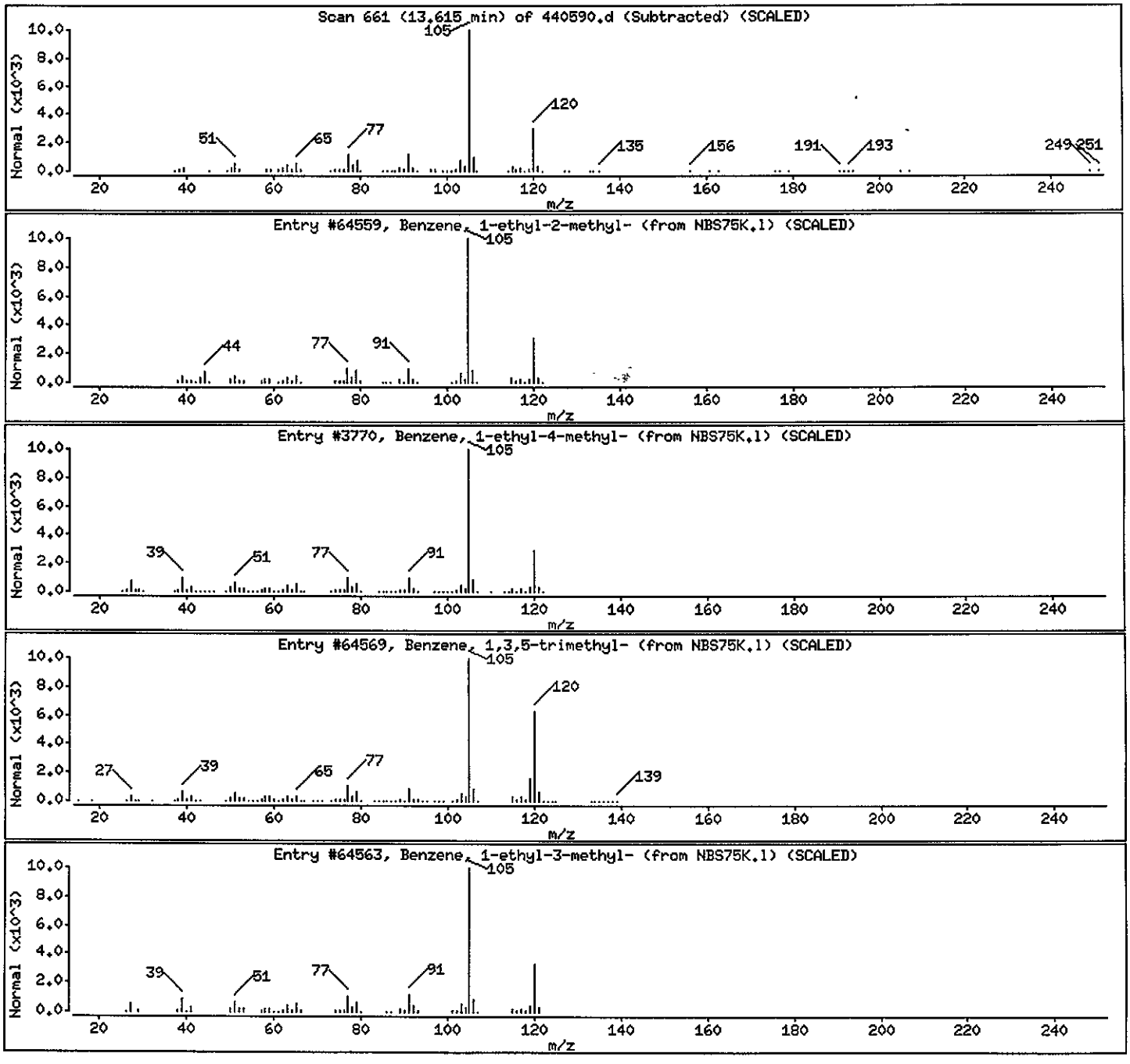
Client ID: A2IA12110007 Instrument: W.i

Sample Info: 440590;029ACA2IA12110007;81024;1218L4

Purge Volume: 200.0 Operator: GMM

Column phase: DB-1 Column diameter: 0.35

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown C3-alkylbenzene						
Benzene, 1-ethyl-2-methyl-	611-14-3	NBS75K.l	64559	94	C9H12	120
Benzene, 1-ethyl-4-methyl-	622-96-8	NBS75K.l	3770	93	C9H12	120
Benzene, 1,3,5-trimethyl-	108-67-8	NBS75K.l	64569	90	C9H12	120
Benzene, 1-ethyl-3-methyl-	620-14-4	NBS75K.l	64563	90	C9H12	120



Data File: /chem/W.i/Wsvr.p/uceto14.b/440590.d

Date : 18-DEC-2000 17:07

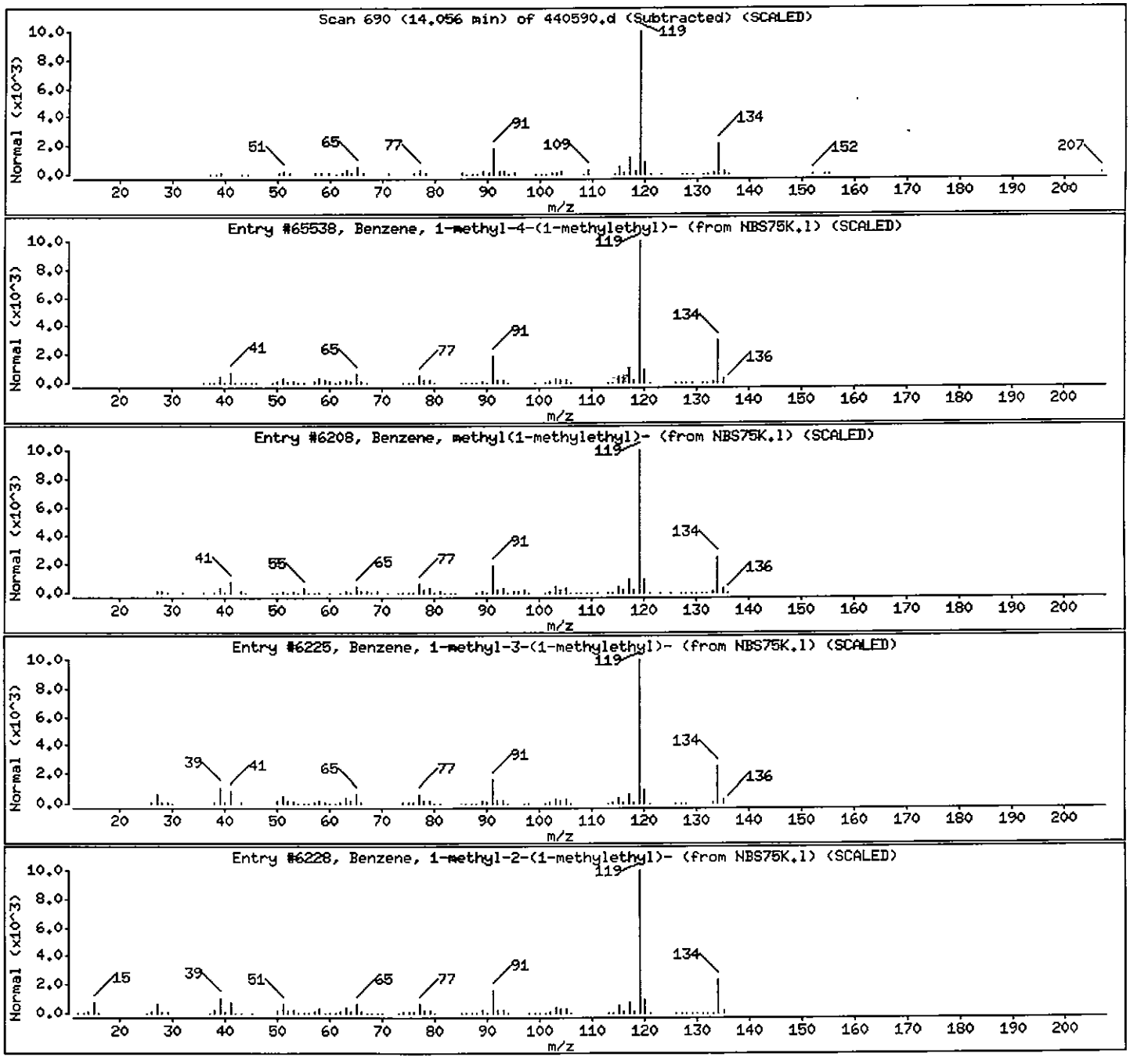
Client ID: A2IA12110007 Instrument: W.i

Sample Info: 440590;029ACA2IA12110007;81024;1218L4

Purge Volume: 200.0 Operator: GHH

Column phase: DB-1 Column diameter: 0.35

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown C4-alkylbenzene						
Benzene, 1-methyl-4-(1-methylethyl)-	99-87-6	NBS75K.l	65538	91	C10H14	134
Benzene, methyl(1-methylethyl)-	25155-15-1	NBS75K.l	6208	91	C10H14	134
Benzene, 1-methyl-3-(1-methylethyl)-	535-77-3	NBS75K.l	6225	91	C10H14	134
Benzene, 1-methyl-2-(1-methylethyl)-	527-84-4	NBS75K.l	6228	91	C10H14	134



Data File: /chem/W.i/Wsvr.p/wceto14.b/440590.d

Date : 18-DEC-2000 17:07

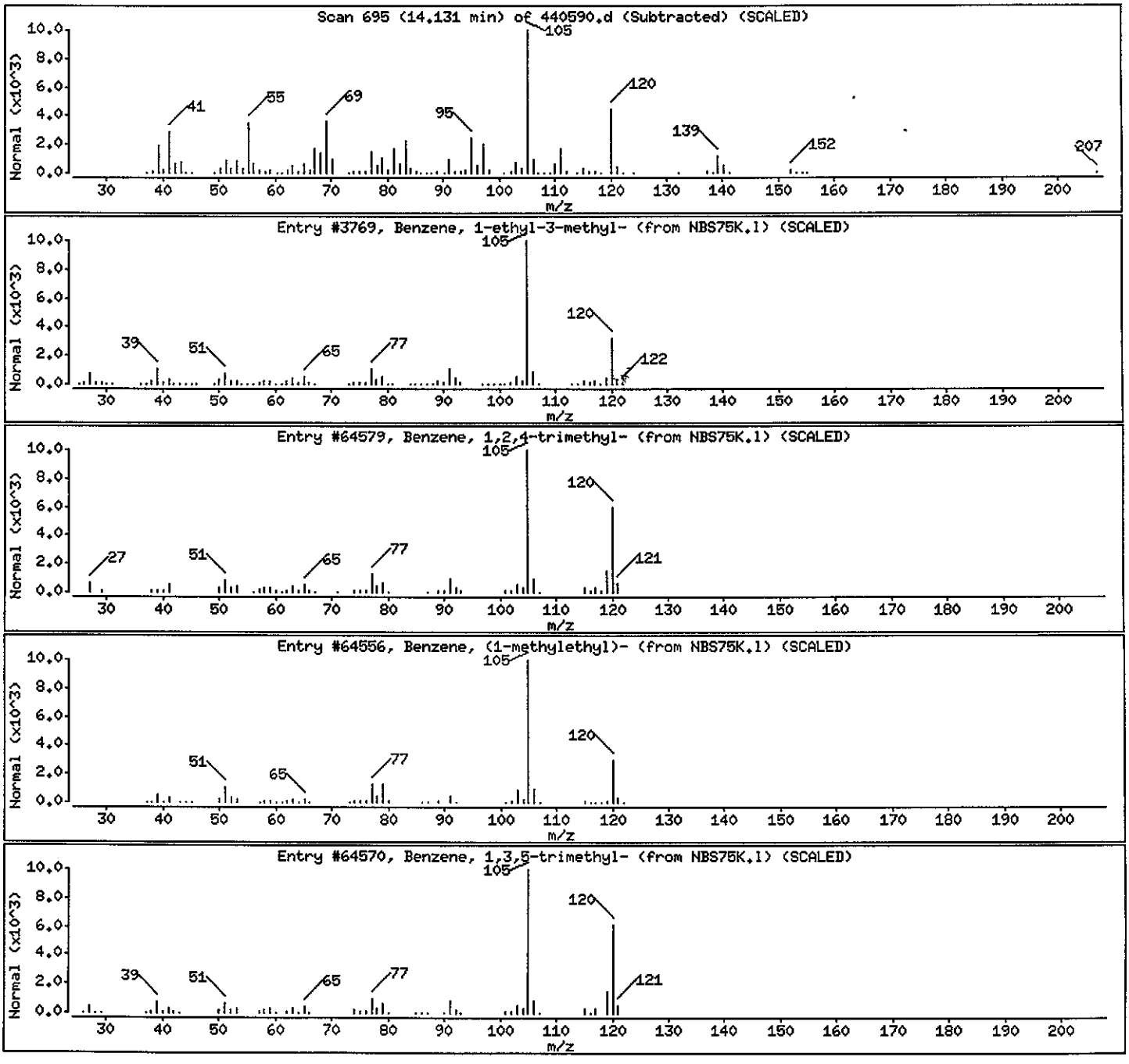
Client ID: A2IA12110007 Instrument: W.i

Sample Info: 440590;029ACA2IA12110007;81024;1218L4

Purge Volume: 200.0 Operator: GMM

Column phase: DB-1 Column diameter: 0.35

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown C3-alkylbenzene						
Benzene, 1-ethyl-3-methyl-	620-14-4	NBS75K.l	3769	46	C9H12	120
Benzene, 1,2,4-trimethyl-	95-63-6	NBS75K.l	64579	46	C9H12	120
Benzene, (1-methylethyl)-	98-82-8	NBS75K.l	64556	46	C9H12	120
Benzene, 1,3,5-trimethyl-	108-67-8	NBS75K.l	64570	46	C9H12	120



Data File: /chem/W.i/Wsvr.p/wceto14.b/440590.d

Date : 18-DEC-2000 17:07

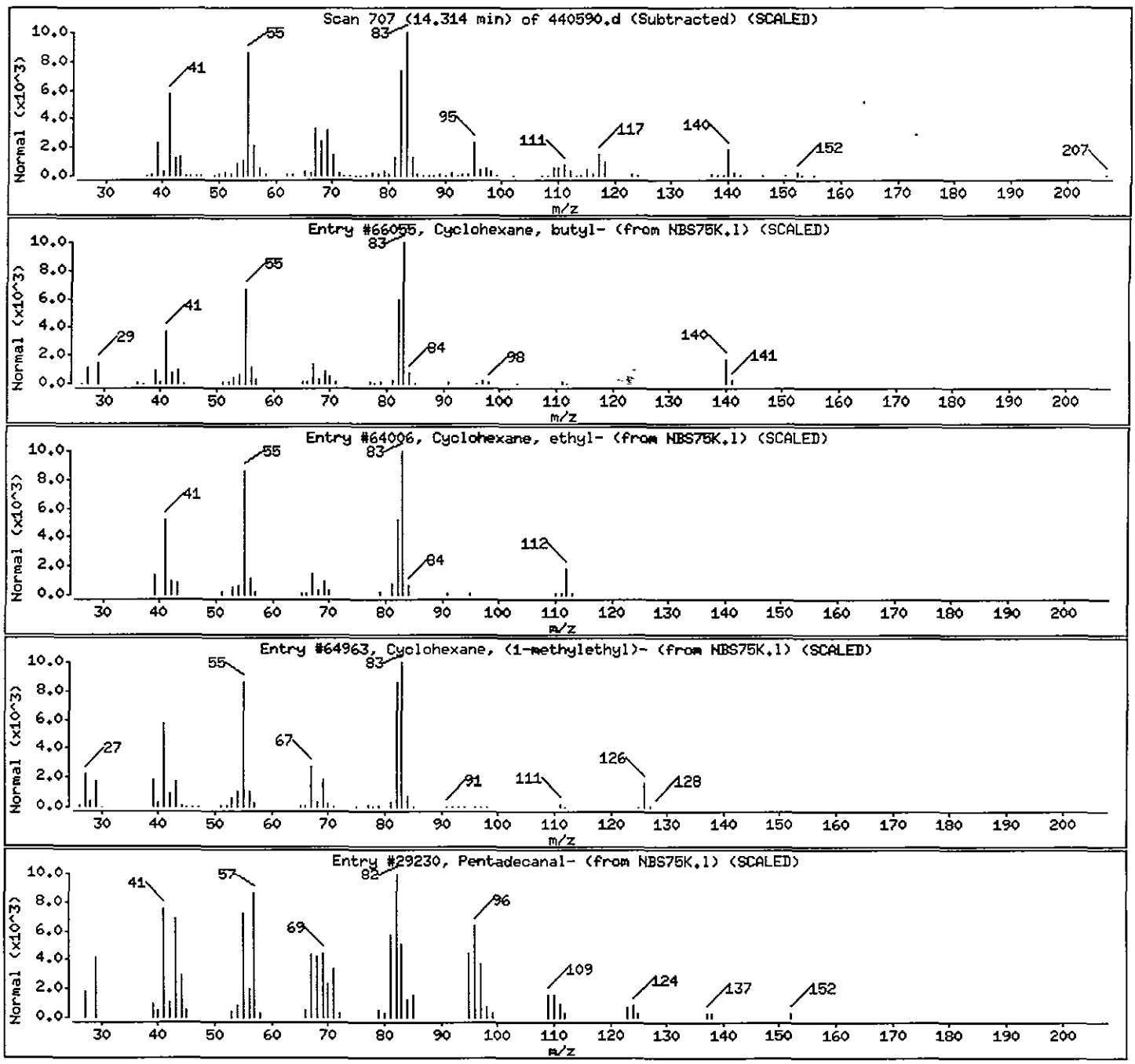
Client ID: A2IA12110007 Instrument: W.i

Sample Info: 440590:029ACA2IA12110007:81024:1218L4

Purge Volume: 200.0 Operator: GHH

Column phase: DB-1 Column diameter: 0.35

Library Search Compound Hatch	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Cyclohexane, butyl-	1678-93-9	NBS75K.l	66055	70	C10H20	140
Cyclohexane, ethyl-	1678-91-7	NBS75K.l	64006	53	C8H16	112
Cyclohexane, (1-methylethyl)-	696-29-7	NBS75K.l	64963	53	C9H18	126
Pentadecanal-	2765-11-9	NBS75K.l	29230	52	C15H30O	226



Data File: /chem/W.i/Wsvr.p/wceto14.b/440590.d

Date : 18-DEC-2000 17:07

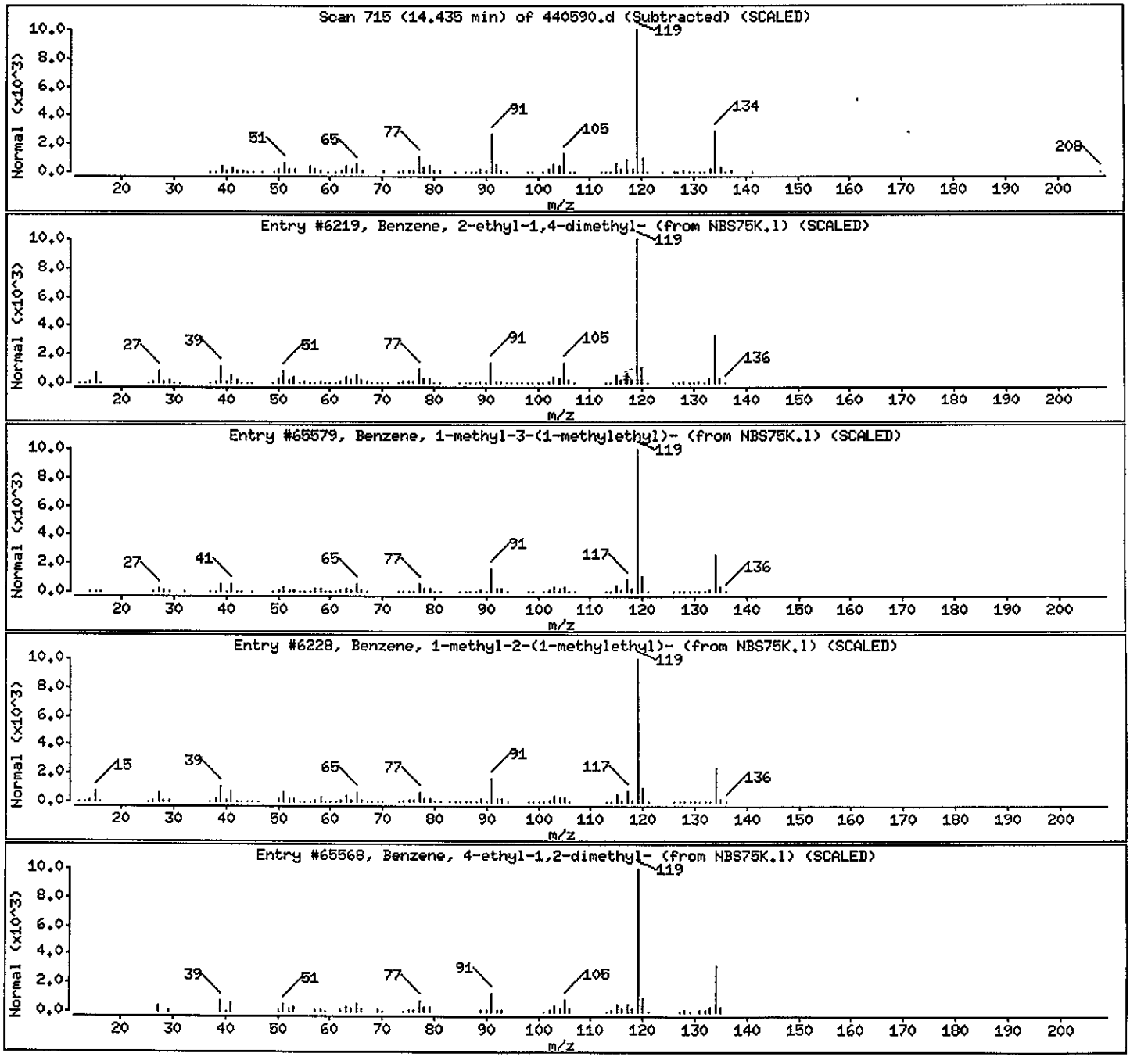
Client ID: A2IA12110007 Instrument: W.i

Sample Info: 440590;029ACA2IA12110007;81024;1218L4

Purge Volume: 200.0 Operator: GMM

Column phase: DB-1 Column diameter: 0.35

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown C4-alkylbenzene						
Benzene, 2-ethyl-1,4-dimethyl-	1758-88-9	NBS75K.l	6219	94	C10H14	134
Benzene, 1-methyl-3-(1-methylethyl)-	535-77-3	NBS75K.l	65579	94	C10H14	134
Benzene, 1-methyl-2-(1-methylethyl)-	527-84-4	NBS75K.l	6228	93	C10H14	134
Benzene, 4-ethyl-1,2-dimethyl-	934-80-5	NBS75K.l	65568	93	C10H14	134



Data File: /chem/W.i/Wsvr.p/wceto14.b/440590.d

Date : 18-DEC-2000 17:07

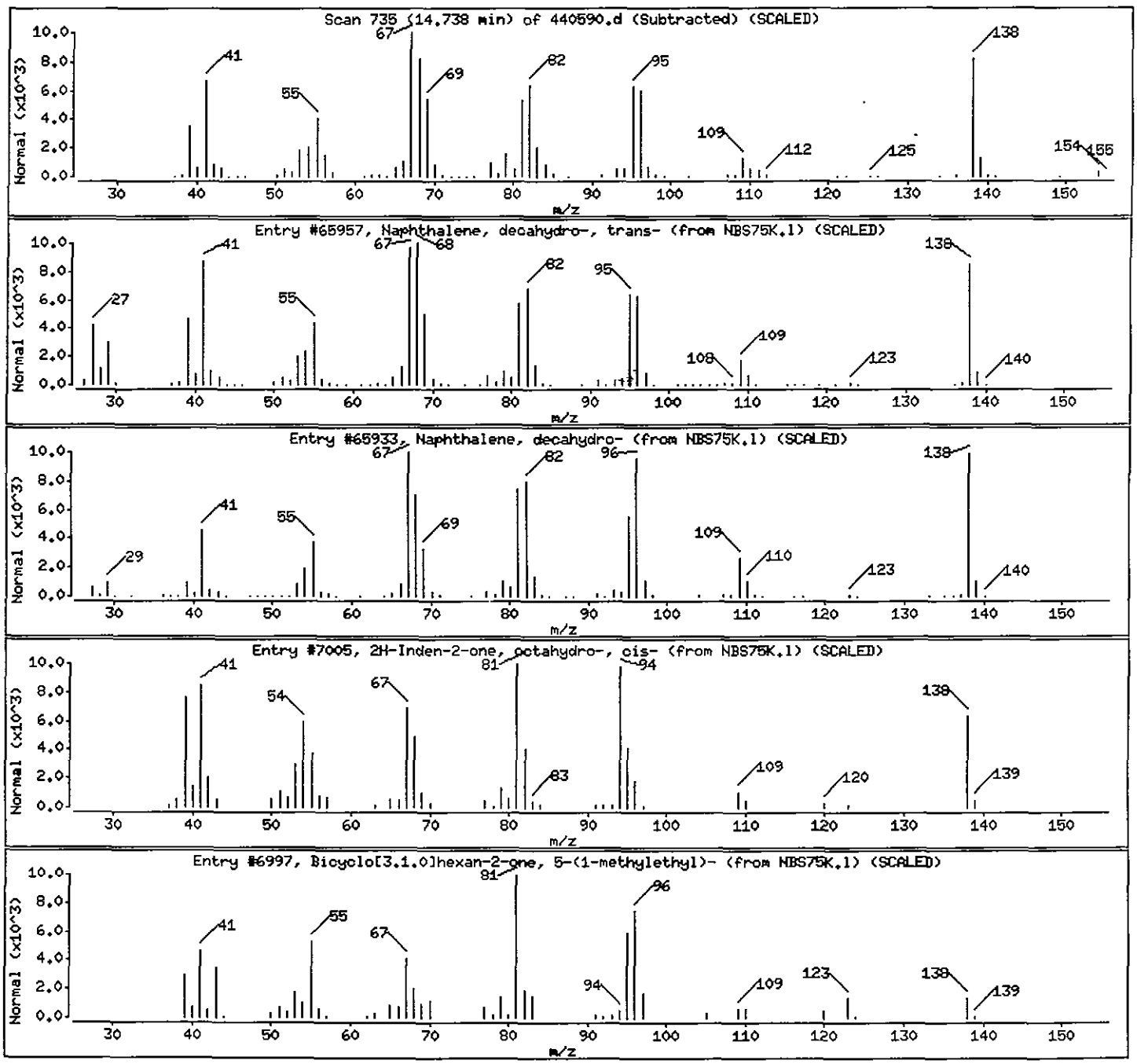
Client ID: A2IA12110007 Instrument: W.i

Sample Info: 440590;029ACA2IA12110007;81024;1218L4

Purge Volume: 200.0 Operator: GHM

Column phase: DB-1 Column diameter: 0.35

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Naphthalene, decahydro-, trans-	493-02-7	NBS75K.1	65957	98	C10H18	138
Naphthalene, decahydro-	91-17-8	NBS75K.1	65933	81	C10H18	138
2H-Inden-2-one, octahydro-, cis-	5689-04-3	NBS75K.1	7005	80	C9H140	138
Bicyclo[3.1.0]hexan-2-one, 5-(1-methylet	513-20-2	NBS75K.1	6997	72	C9H140	138



FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

ACCANA SAMPLE NO.

CAEA12110007

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 81024

Matrix: (soil/water) AIR Lab Sample ID: 440591

Sample wt/vol: 200 (g/mL) ML Lab File ID: 440591

Level: (low/med) LOW Date Received: 12/15/00

% Moisture: not dec. _____ Date Analyzed: 12/18/00

GC Column: DB-1 ID: 0.35 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) PPBV	Q
74-87-3	Chloromethane	0.80	
75-01-4	Vinyl Chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	
75-09-2	Methylene Chloride	1.2	
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
67-66-3	Chloroform	1.3	
71-55-6	1,1,1-Trichloroethane	0.50	U
56-23-5	Carbon Tetrachloride	0.50	U
71-43-2	Benzene	0.86	
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-88-3	Toluene	16	
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	32	
1330-20-7	Xylene (total)	13	
100-42-5	Styrene	0.50	U
1330-20-7	Xylene (m,p)	13	
95-47-6	Xylene (o)	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

ACCANA SAMPLE NO.

CAEA12110007

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 81024

Matrix: (soil/water) AIR Lab Sample ID: 440591

Sample wt/vol: 200 (g/mL) ML Lab File ID: 440591

Level: (low/med) LOW Date Received: 12/15/00

% Moisture: not dec. _____ Date Analyzed: 12/18/00

GC Column: DB-1 ID: 0.35 (mm) Dilution Factor: 1.0

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

Number TICs found: 10

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

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		UNKNOWN ALIPHATIC COMPOUND	10.72	5.8	J
2.	111-65-9	OCTANE	11.25	18	NJ
3.		UNKNOWN ALIPHATIC COMPOUND	11.70	6.4	J
4.		UNKNOWN ALIPHATIC COMPOUND	11.95	37	J
5.		UNKNOWN ALKYLCYCLOHEXANE	12.16	5.6	J
6.		UNKNOWN ALKYLCYCLOHEXANE	12.49	5.5	J
7.		UNKNOWN	12.55	5.6	J
8.		UNKNOWN ALIPHATIC COMPOUND	12.61	10	J
9.		UNKNOWN ALKYLCYCLOHEXANE	12.89	9.1	J
10.		UNKNOWN	13.07	11	J
11.					
12.					
13.					
14.					
15.					
16.					
17.					
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19.					
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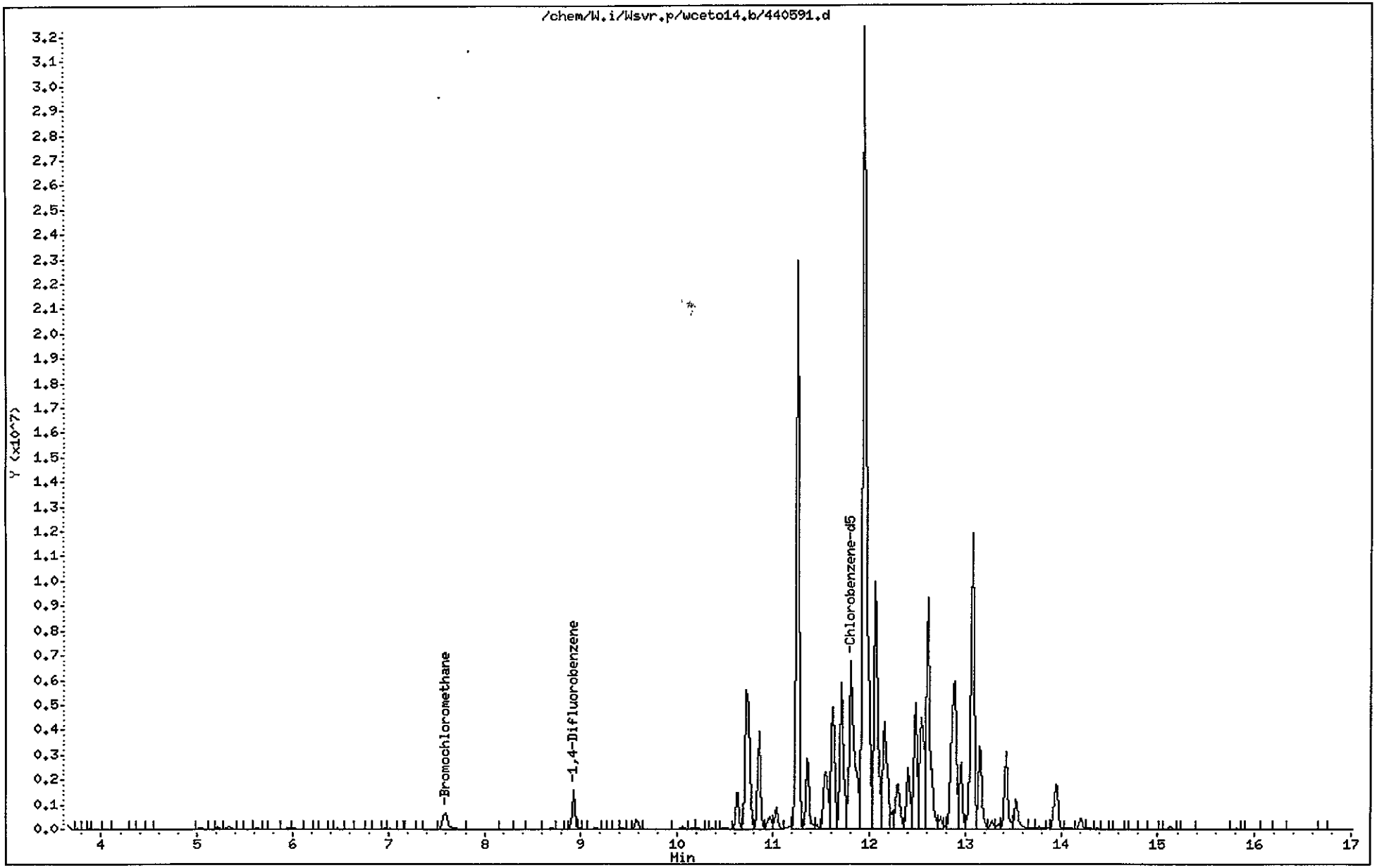
30.					

Data File: /chem/W.i/Wsvr.p/wceto14.b/440591.d
Date : 18-DEC-2000 17:41
Client ID: CAEA12110007
Sample Info: 440591;029ACAEA12110007;81024;1218L4
Purge Volume: 200.0
Column phase: DB-1

Instrument: W.i
Operator: GMM
Column diameter: 0.35



0033

STL Burlington

AIR TOXICS QUANTITATION REPORT

Data file : /chem/W.i/Wsvr.p/wceto14.b/440591.d
Lab Smp Id: 440591 Client Smp ID: CAEA12110007
Inj Date : 18-DEC-2000 17:41
Operator : GMM Inst ID: W.i
Smp Info : 440591;029ACAEA12110007;81024;1218L4
Misc Info :
Comment :
Method : /chem/W.i/Wsvr.p/wceto14.b/ato14.m
Meth Date : 26-Dec-2000 14:40 mim Quant Type: ISTD
Cal Date : 18-DEC-2000 13:44 Cal File: ce010i2.d
Als bottle: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ACCANA2.sub
Target Version: 3.50
Processing Host: chemsvr4

Concentration Formula: Amt * DF * X* Uf/Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
X	200.00000	method volume factor
Uf	1.00000	ng unit correction factor
Vo	200.00000	Sample Volume purged (mL)

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	FINAL (ppbv)
2	Chloromethane	50	3.911	3.955	(0.516)	14884	0.80376	0.80
4	Vinyl Chloride	62	Compound Not Detected.					
5	Bromomethane	94	Compound Not Detected.					
6	Chloroethane	64	Compound Not Detected.					
7	Trichlorofluoromethane	101	5.344	5.375	(0.706)	35252	0.50433	0.50(M)
9	Methylene Chloride	49	5.951	5.982	(0.786)	38133	1.25834	1.2(MH)
11	1,1-Dichloroethane	63	Compound Not Detected.					
12	cis-1,2-Dichloroethene	61	Compound Not Detected.					
* 13	Bromochloromethane	128	7.575	7.621	(1.000)	312119	10.0000	
14	Chloroform	83	7.666	7.697	(1.012)	80438	1.30948	1.3
15	1,2-Dichloroethane	62	Compound Not Detected.					
16	1,1,1-Trichloroethane	97	Compound Not Detected.					
17	Benzene	78	8.698	8.744	(0.974)	62787	0.86596	0.86
18	Carbon Tetrachloride	117	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)
*	19 1,4-Difluorobenzene	114	8.926	8.956	(1.000)	1270164	10.0000	
	20 1,2-Dichloropropane	63	Compound Not Detected.					
	21 Trichloroethene	95	Compound Not Detected.					
	22 cis-1,3-Dichloropropene	75	Compound Not Detected.					
	23 trans-1,3-Dichloropropene	75	Compound Not Detected.					
	24 1,1,2-Trichloroethane	83	Compound Not Detected.					
	25 Toluene	92	10.625	10.656	(0.900)	801492	16.1966	16
	27 Tetrachloroethene	166	Compound Not Detected.					
*	28 Chlorobenzene-d5	117	11.809	11.840	(1.000)	1247750	10.0000	
	29 Chlorobenzene	112	Compound Not Detected.					
	30 Ethylbenzene	91	12.082	12.098	(1.023)	3677829	32.3022	32
	31 Xylene (m,p)	106	12.188	12.219	(1.032)	530842	12.8982	13
	32 Styrene	104	Compound Not Detected.					
M	33 Xylene (total)	106				530842	12.8982	13
	34 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					
	35 Xylene (o)	106	Compound Not Detected.					
	38 1,3-Dichlorobenzene	146	Compound Not Detected.					
	39 1,4-Dichlorobenzene	146	Compound Not Detected.					
	40 1,2-Dichlorobenzene	146	Compound Not Detected.					

QC Flag Legend

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

mm 12/26/00

STL Burlington

AIR TOXICS QUANTITATION REPORT

Data file : /chem/W.i/Wsvr.p/wceto14.b/440591.d
Lab Smp Id: 440591 Client Smp ID: CAEA12110007
Inj Date : 18-DEC-2000 17:41
Operator : GMM Inst ID: W.i
Smp Info : 440591;029ACAEA12110007;81024;1218L4
Misc Info :
Comment :
Method : /chem/W.i/Wsvr.p/wceto14.b/ato14.m
Meth Date : 26-Dec-2000 14:40 mim Quant Type: ISTD
Cal Date : 18-DEC-2000 13:44 Cal File: ce010i2.d
Als bottle: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ACCANA2.sub
Target Version: 3.50
Processing Host: chemsvr4

Concentration Formula: Amt * DF * X* Uf/Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
X	200.00000	method volume factor
Uf	1.00000	ng unit correction factor
Vo	200.00000	Sample Volume purged (mL)

Cpnd Variable Local Compound Variable

ISTD	RT	AREA	AMOUNT
* 28 Chlorobenzene-d5	11.809	26188165	10.000

	CONCENTRATIONS			QUANT			
RT	AREA	ON-COL(ppbv)	FINAL(ppbv)	QUAL	LIBRARY	LIB ENTRY	CPND #
Unknown aliphatic compound				CAS #:			
10.716	15172747	5.79374182	5.8	0		0	28
Octane				CAS #: 111-65-9			
11.248	46468651	17.7441408	18	91	NBS75K.l	64209	28

RT	AREA	CONCENTRATIONS ON-COL(ppbv)	FINAL(ppbv)	QUAL	QUANT LIBRARY	LIB ENTRY	CPND #
Unknown aliphatic compound				CAS #:			
11.703	16727804	6.38754313	6.4	0		0	28
Unknown aliphatic compound				CAS #:			
11.946	95887038	36.6146442	37	0		0	28(L)
Unknown alkylcyclohexane				CAS #:			
12.158	14723754	5.62229300	5.6	0		0	28(L)
Unknown alkylcyclohexane				CAS #:			
12.492	14305765	5.46268322	5.5	0		0	28(L)
Unknown				CAS #:			
12.553	14615642	5.58101028	5.6	0		0	28(L)
Unknown aliphatic compound				CAS #:			
12.613	27718132	10.5842205	10	0		0	28(L)
Unknown alkylcyclohexane				CAS #:			
12.887	23891754	9.12311080	9.1	0		0	28(L)
Unknown				CAS #:			
13.069	29828196	11.3899521	11	0		0	28

QC Flag Legend

L - Operator selected an alternate library search match.

Data File: /chem/W.i/Wsvr.p/uceto14.b/440591.d

Date : 18-DEC-2000 17:41

Client ID: CAEA12110007

Instrument: W.i

Sample Info: 440591;029ACAEA12110007;81024;1218L4

Purge Volume: 200.0

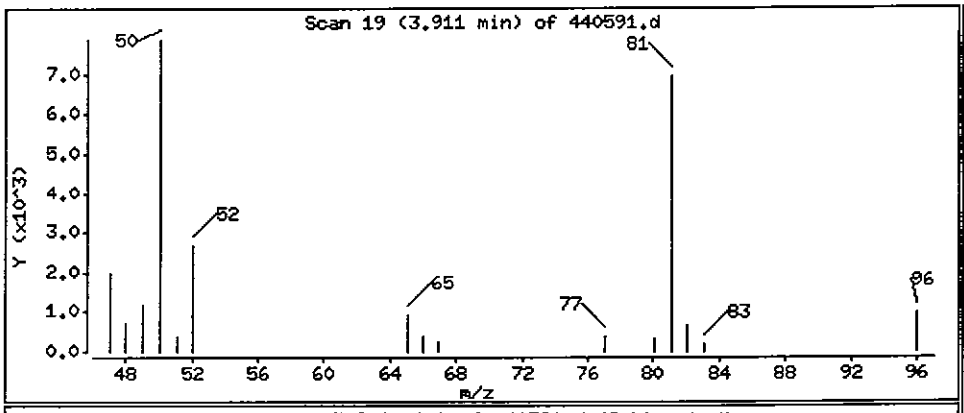
Operator: GMM

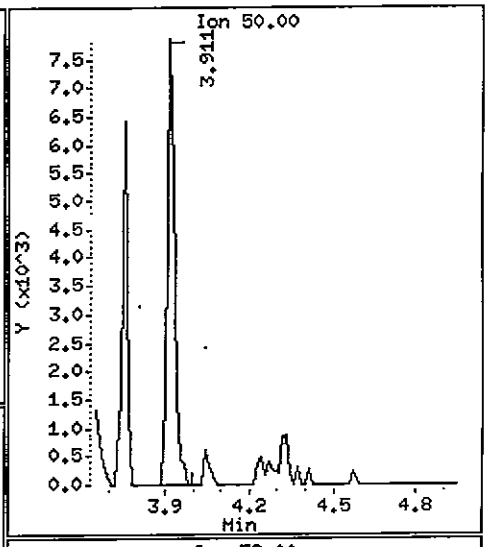
Column phase: DB-1

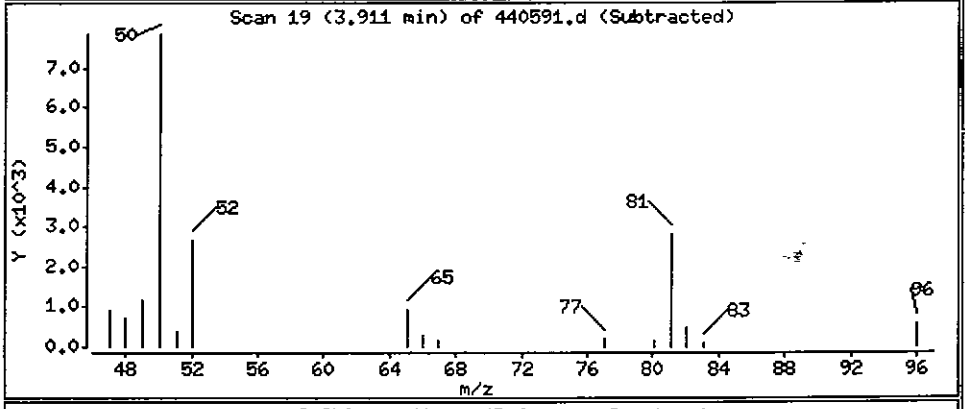
Column diameter: 0.35

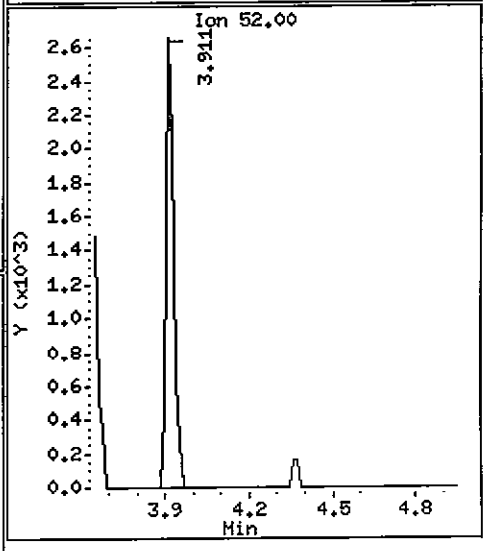
2 Chloromethane

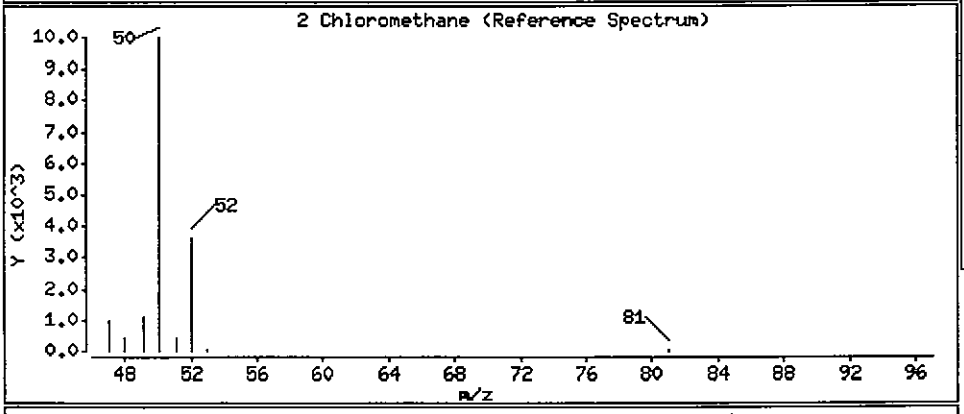
Concentration: 0.80 ppbv

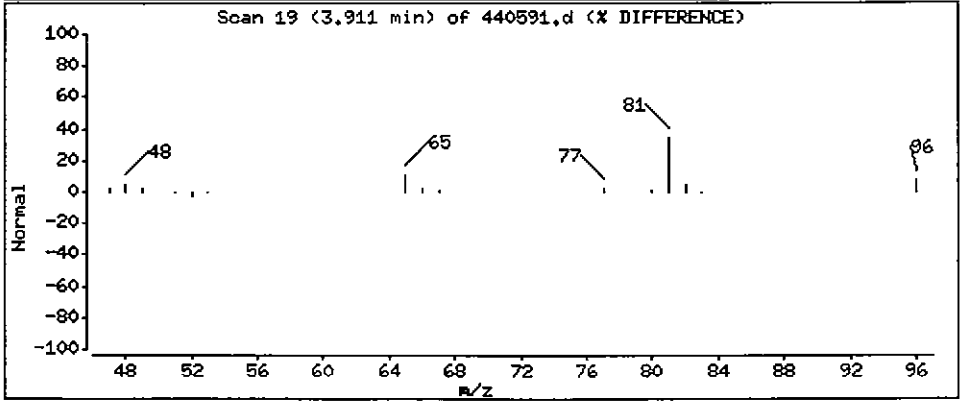












Data File: /chem/W.i/Wsvr.p/wceto14.b/440591.d

Date : 18-DEC-2000 17:41

Client ID: CAEA12110007

Instrument: W.i

Sample Info: 440591;029ACAEA12110007;81024;1218L4

Purge Volume: 200.0

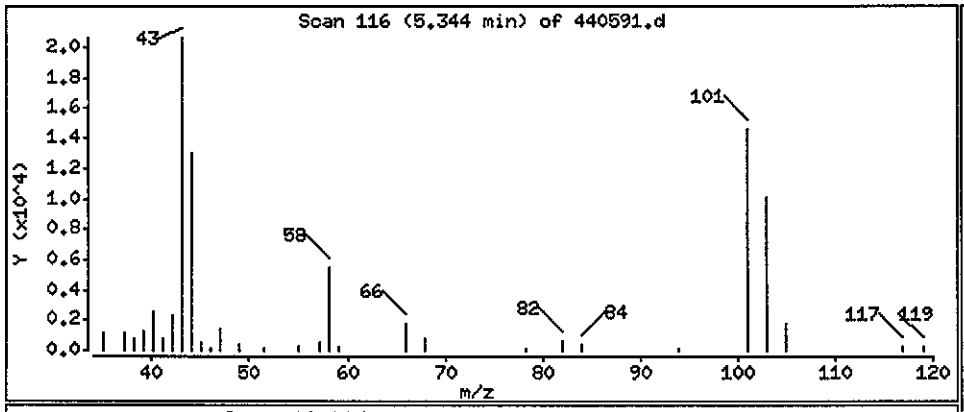
Operator: GMM

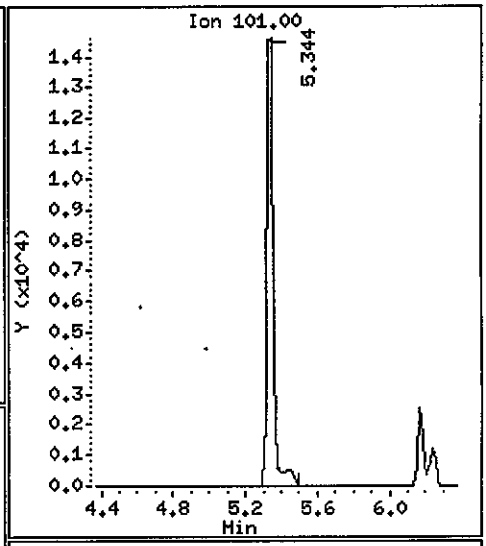
Column phase: DB-1

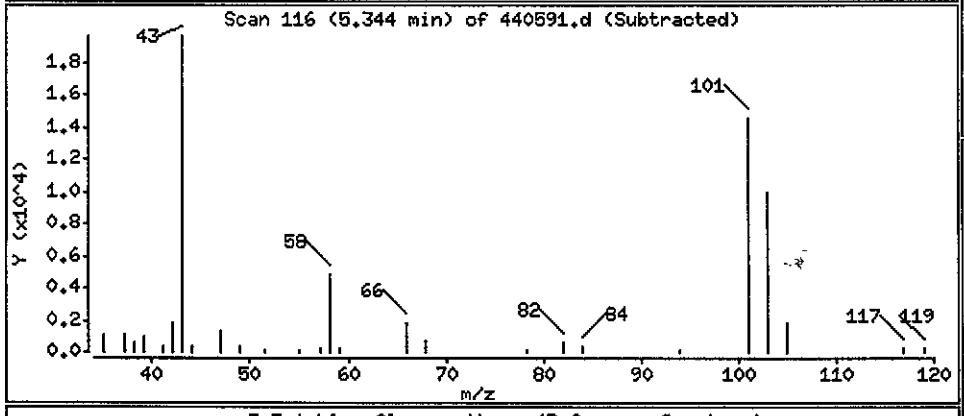
Column diameter: 0.35

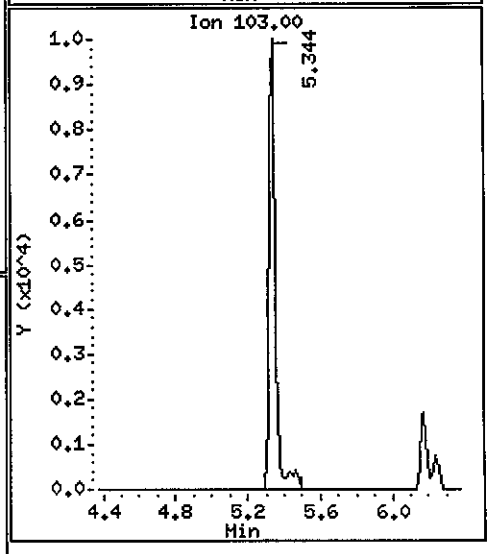
7 Trichlorofluoromethane

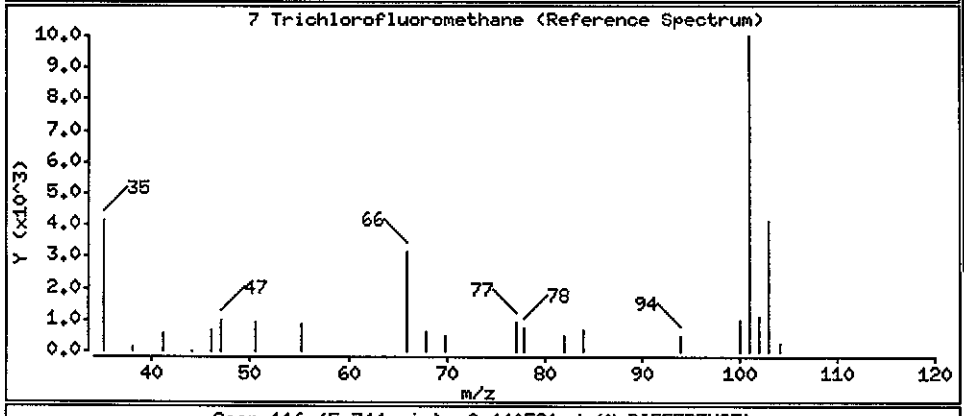
Concentration: 0.50 ppbv

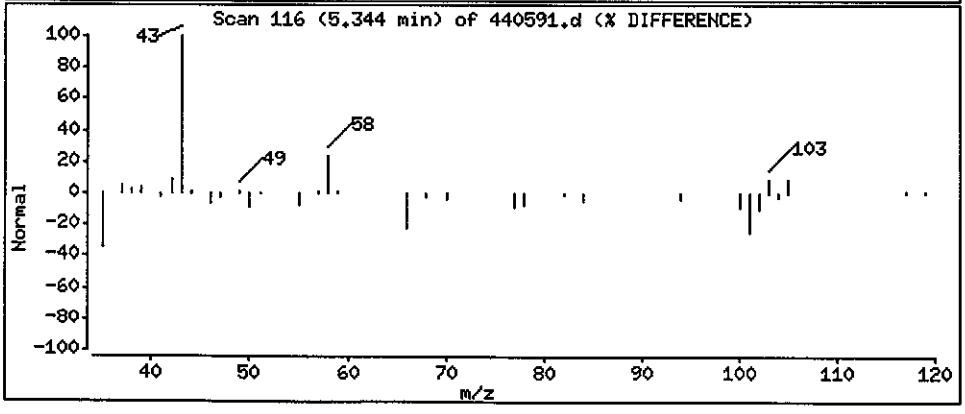












Data File: /chem/W.i/Wsvr.p/wceto14.b/440591.d

Date : 18-DEC-2000 17:41

Client ID: CAEA12110007

Instrument: W.i

Sample Info: 440591;029ACAEA12110007;81024;1218L4

Purge Volume: 200.0

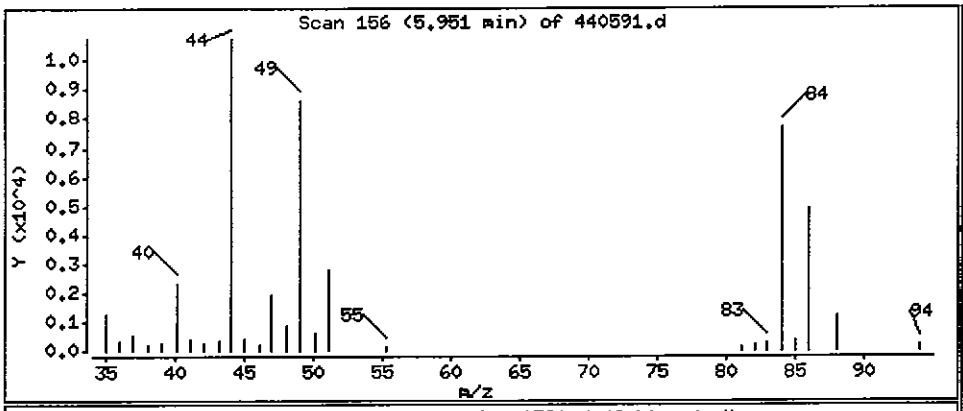
Operator: GMM

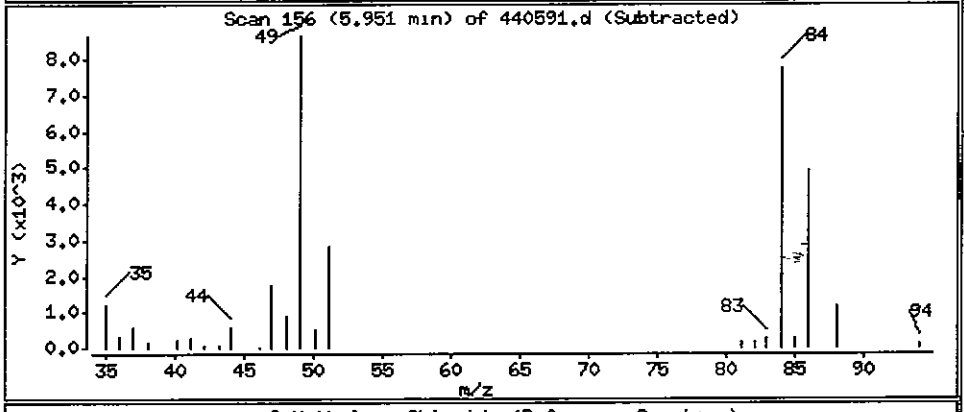
Column phase: DB-1

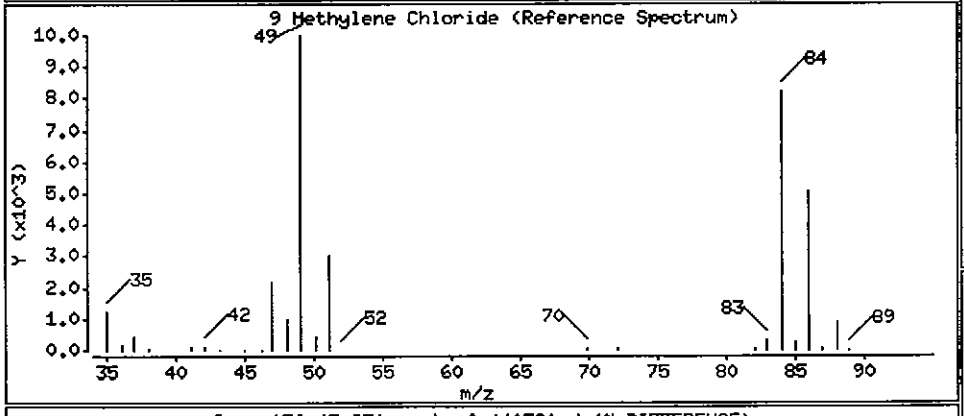
Column diameter: 0.35

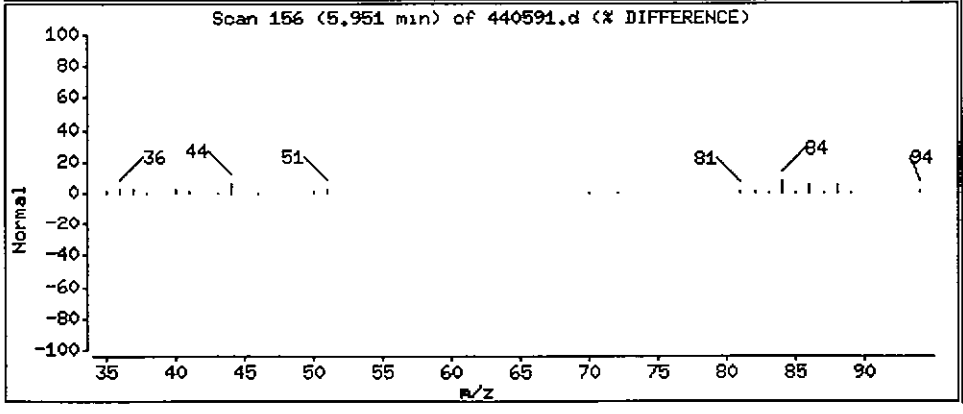
9 Methylene Chloride

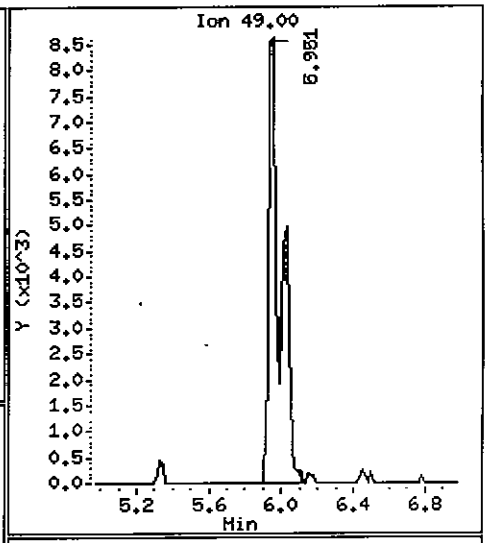
Concentration: 1.2 ppbv

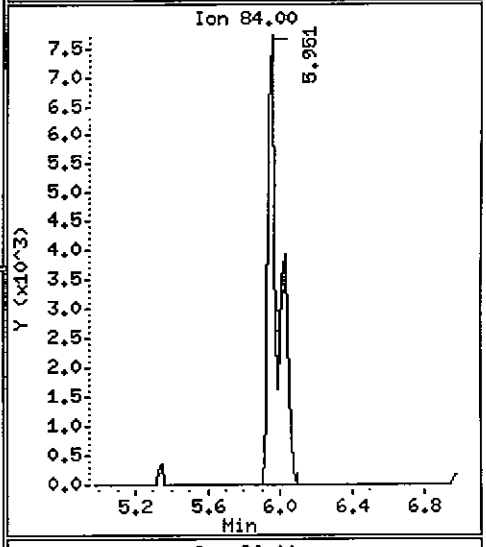


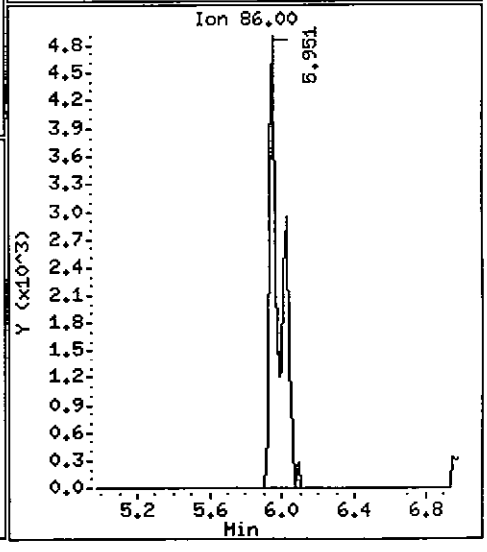












Data File: /chem/W.i/Wsvr.p/wceto14.b/440591.d

Date : 18-DEC-2000 17:41

Client ID: CAEA12110007

Instrument: W.i

Sample Info: 440591;029ACAEA12110007;81024;1218L4

Purge Volume: 200.0

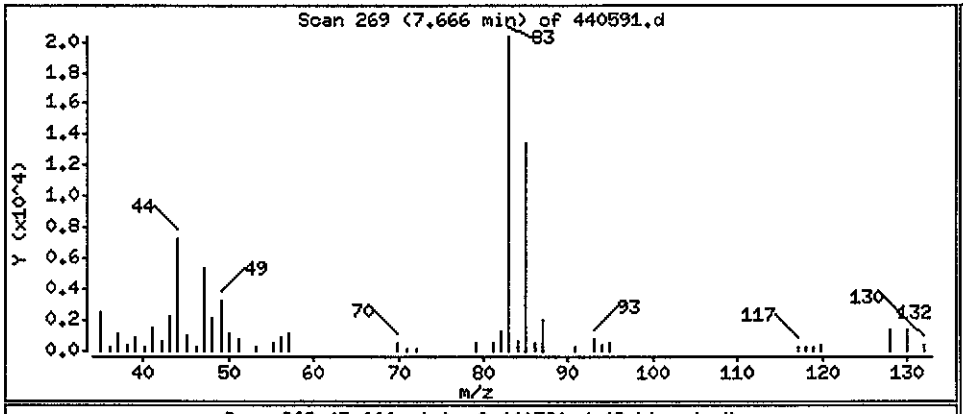
Operator: GHM

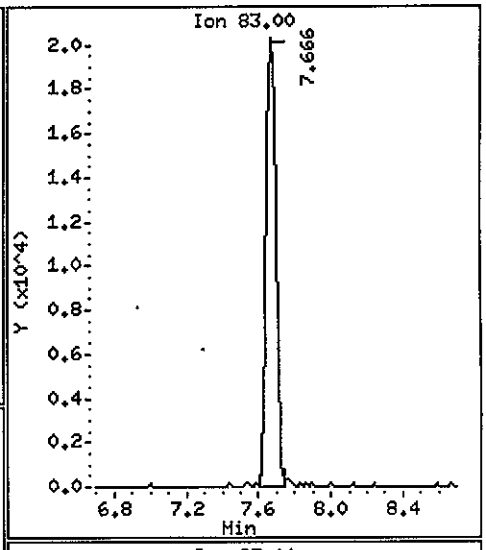
Column phase: DB-1

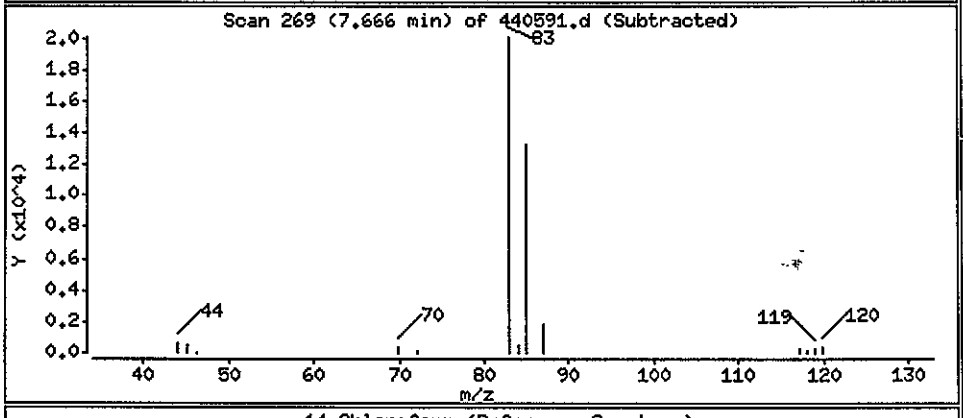
Column diameter: 0.35

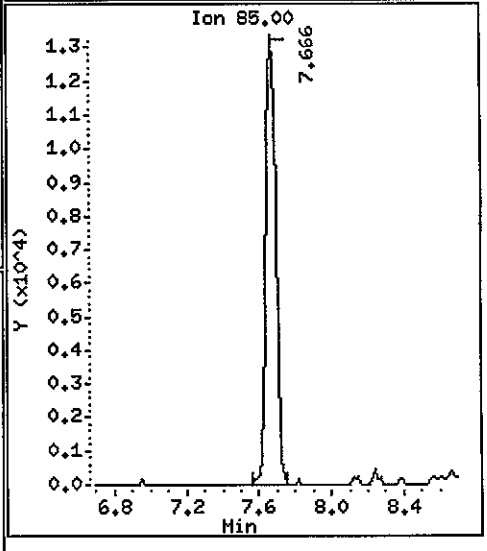
14 Chloroform

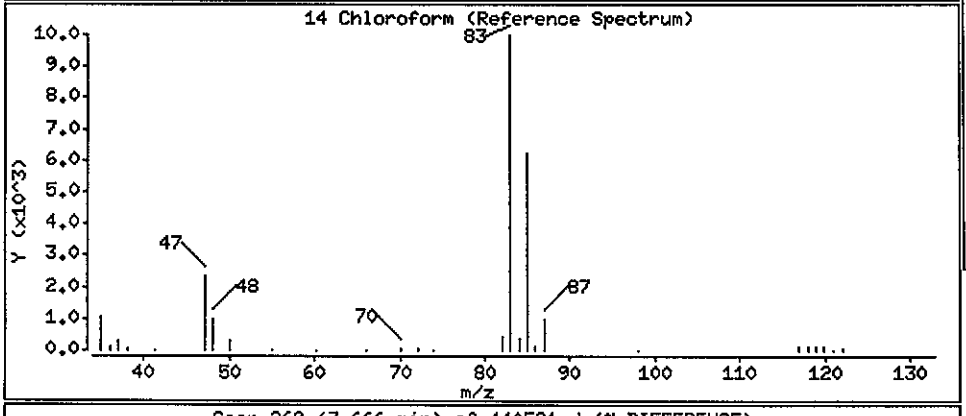
Concentration: 1.3 ppbv

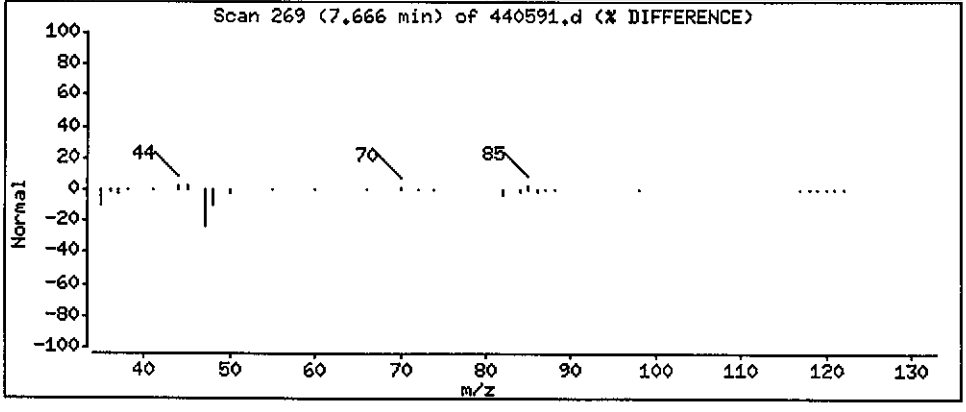












Data File: /chem/W.i/Wsvr.p/uceto14.b/440591.d

Date : 18-DEC-2000 17:41

Client ID: CAEA12110007

Instrument: W.i

Sample Info: 440591;029ACAEA12110007;81024;1218L4

Purge Volume: 200.0

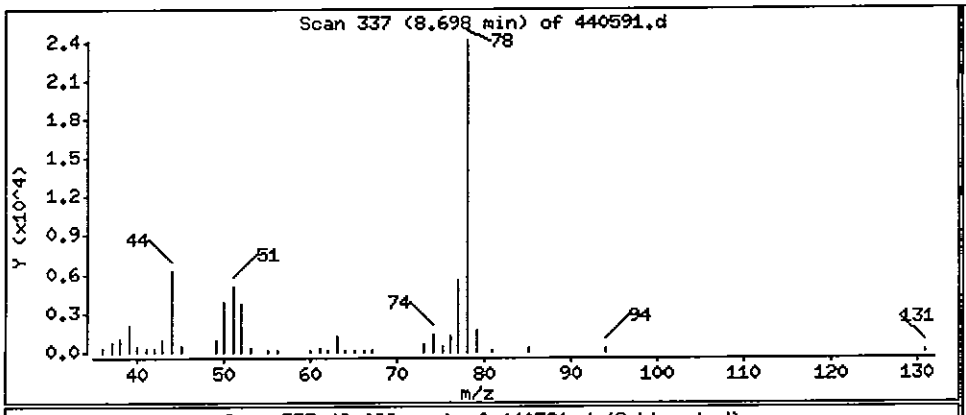
Operator: GMH

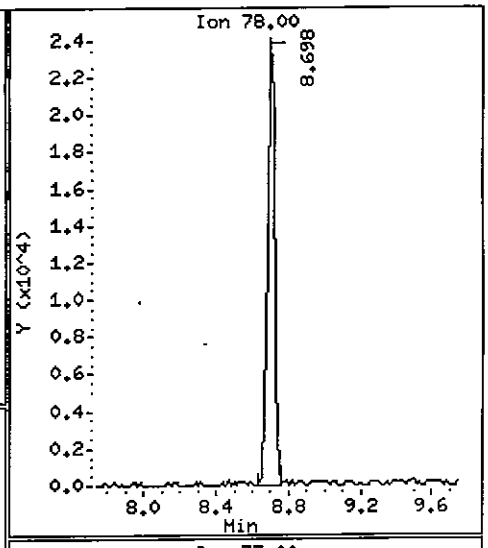
Column phase: DB-1

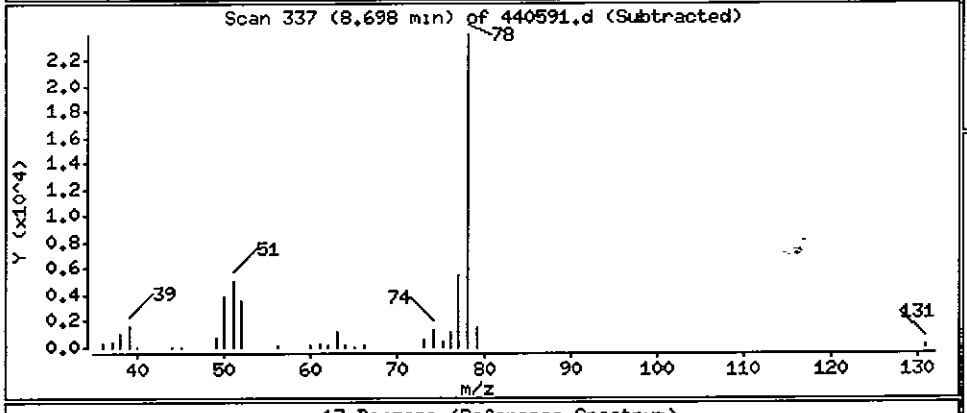
Column diameter: 0.35

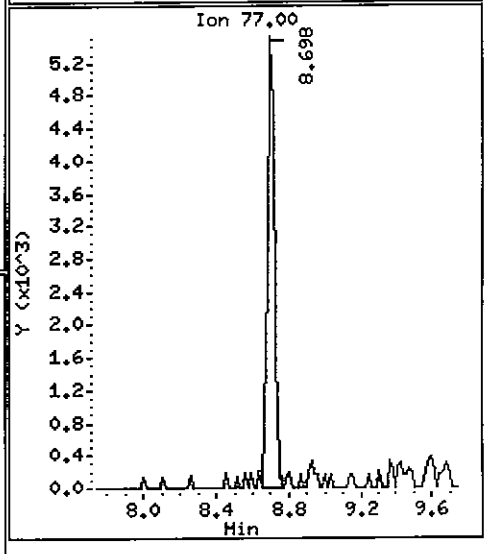
17 Benzene

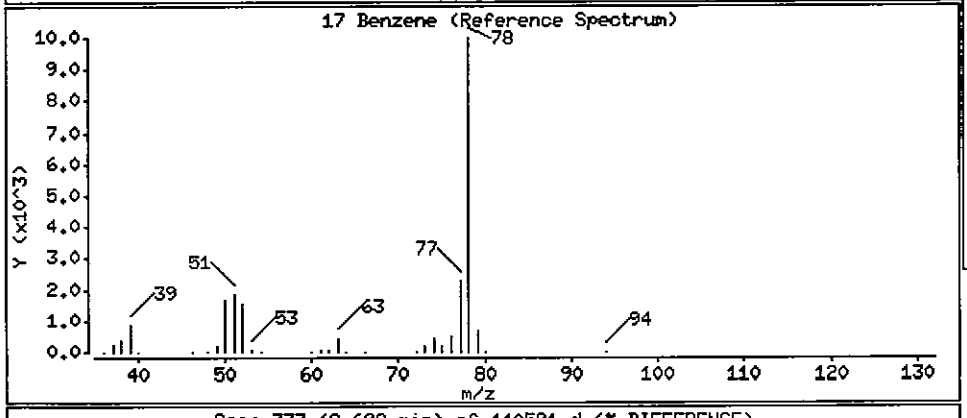
Concentration: 0.86 ppbv

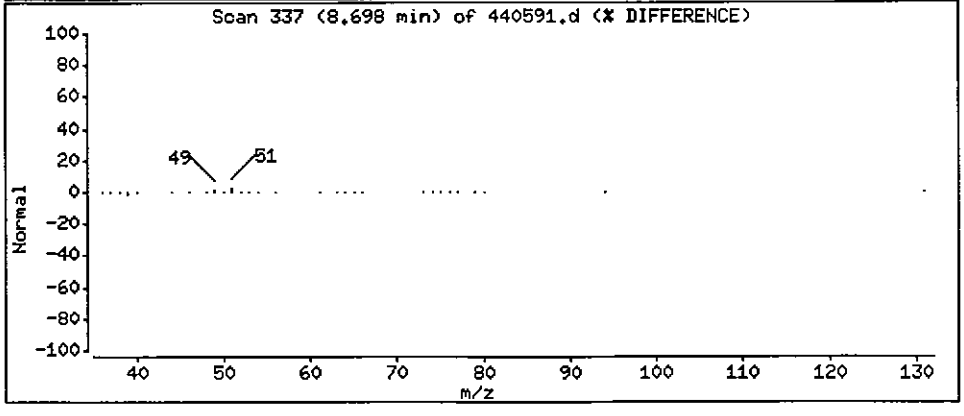












Data File: /chem/W.i/Wsvr.p/wceto14.b/440591.d

Date : 18-DEC-2000 17:41

Client ID: CAEA12110007

Instrument: W.i

Sample Info: 440591;029ACAEA12110007;81024;1218L4

Purge Volume: 200.0

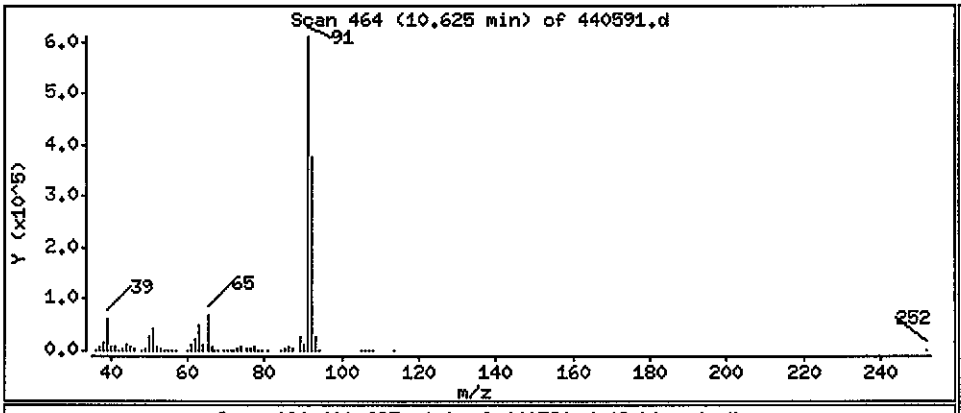
Operator: GMM

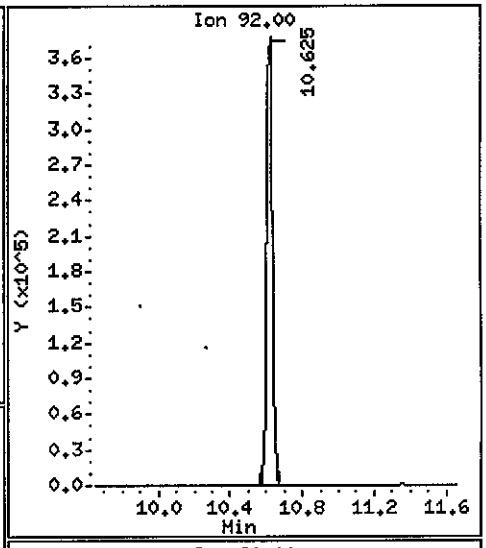
Column phase: DB-1

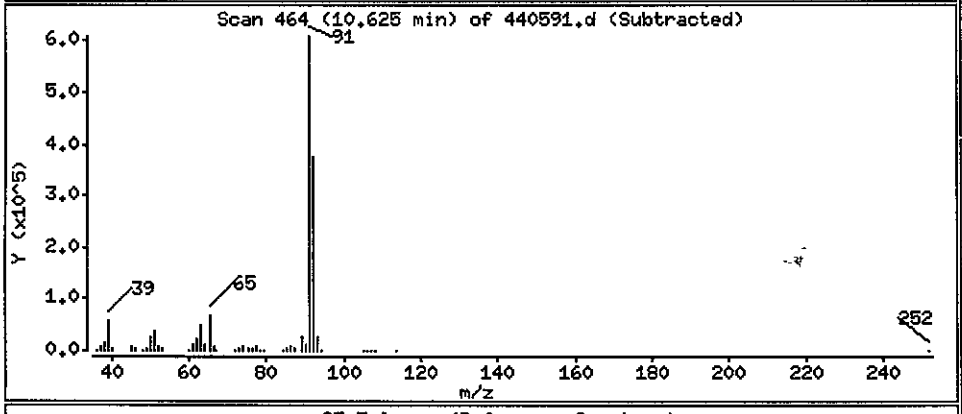
Column diameter: 0.35

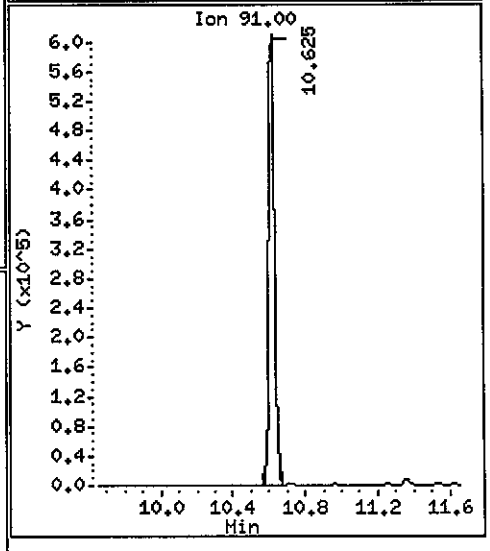
25 Toluene

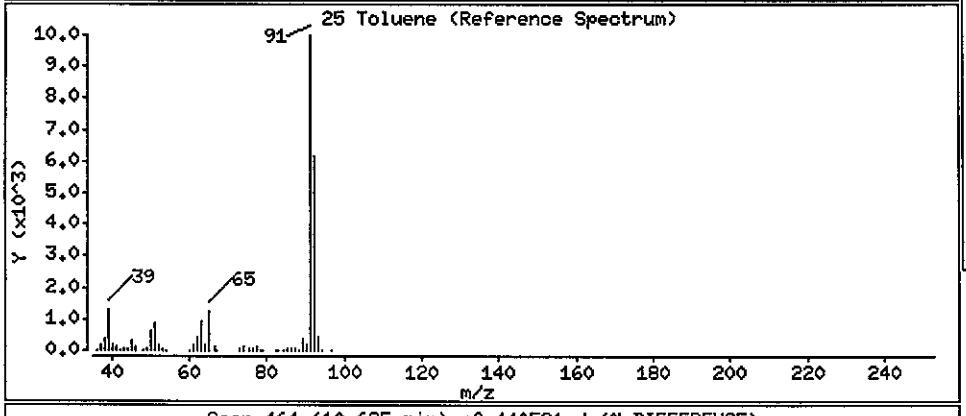
Concentration: 16 ppbv

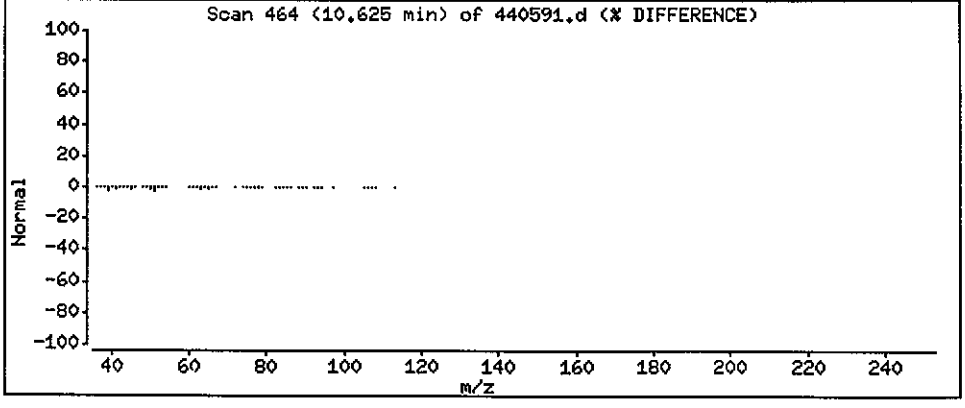












Data File: /chem/W.i/Wsvr.p/wceto14.b/440591.d

Date : 18-DEC-2000 17:41

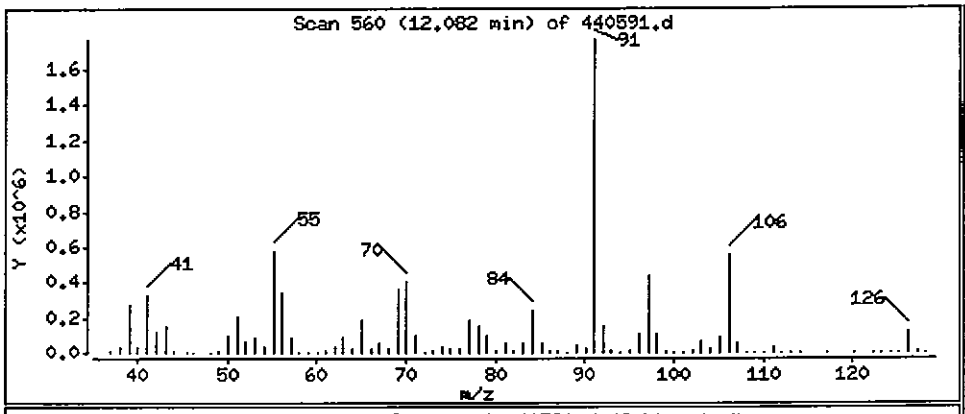
Client ID: CAEA12110007 Instrument: W.i

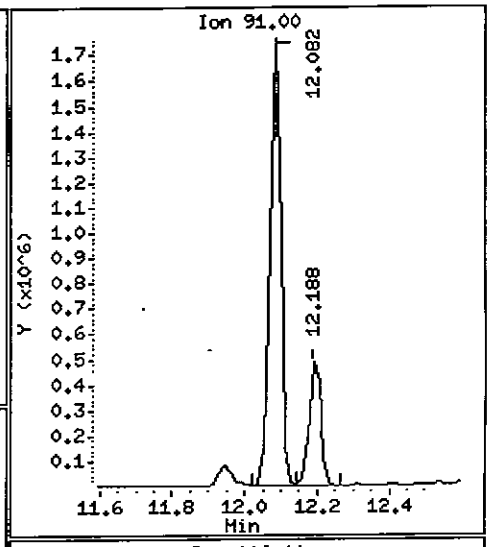
Sample Info: 440591;029ACAEA12110007;81024;1218L4

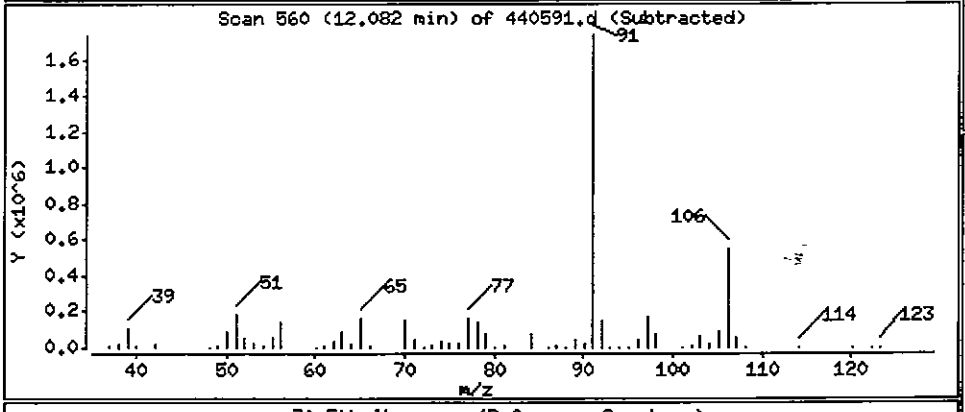
Purge Volume: 200.0 Operator: GMM

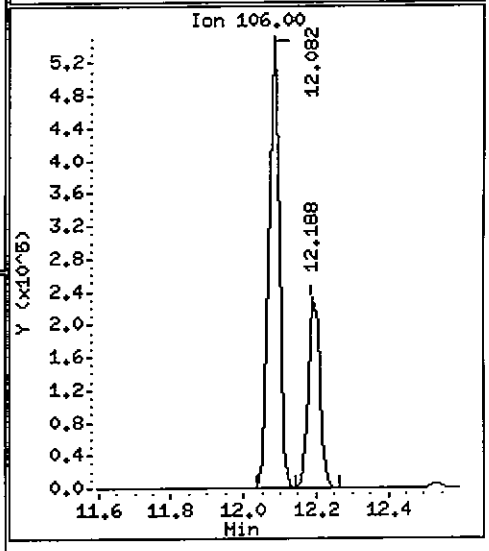
Column phase: DB-1 Column diameter: 0.35

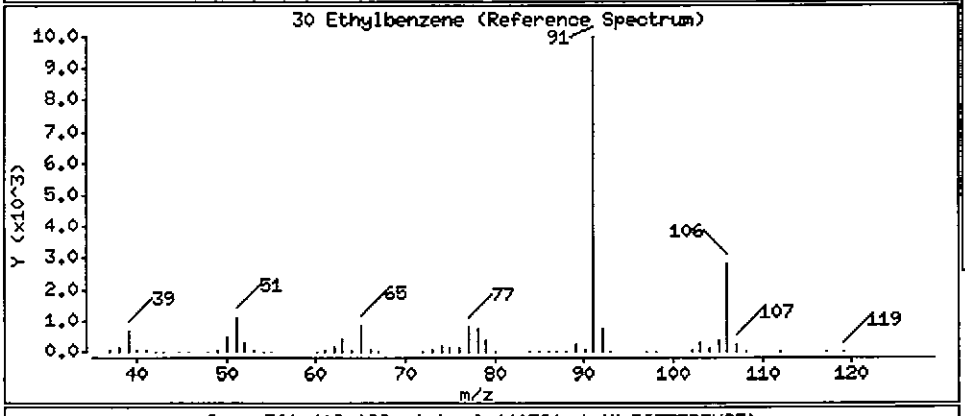
30 Ethylbenzene Concentration: 32 ppbv

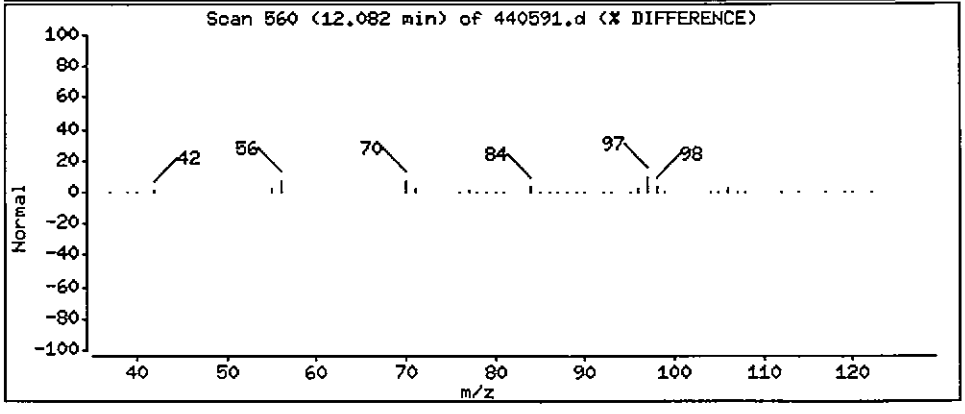












Data File: /chem/W.i/Wsvr.p/wceto14.b/440591.d

Date : 18-DEC-2000 17:41

Client ID: CAEA12110007

Instrument: W.i

Sample Info: 440591;029ACAEA12110007;81024;1218L4

Purge Volume: 200.0

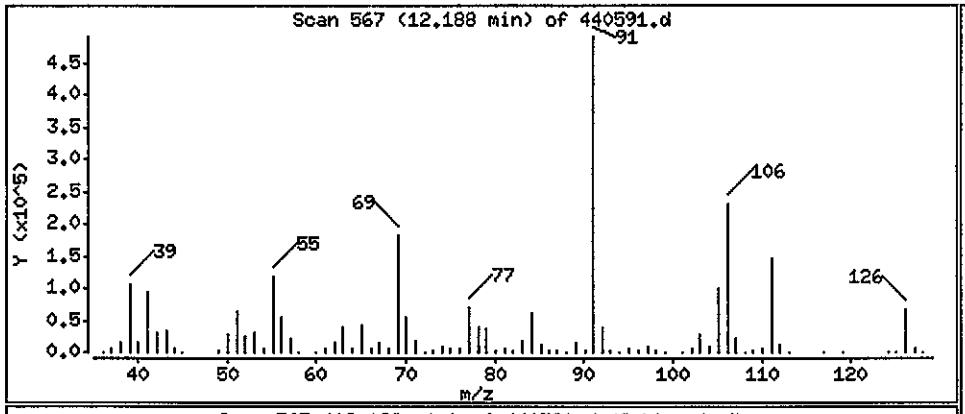
Operator: GMM

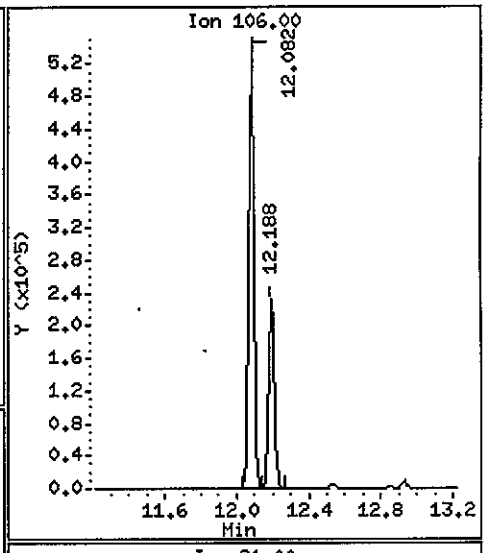
Column phase: DB-1

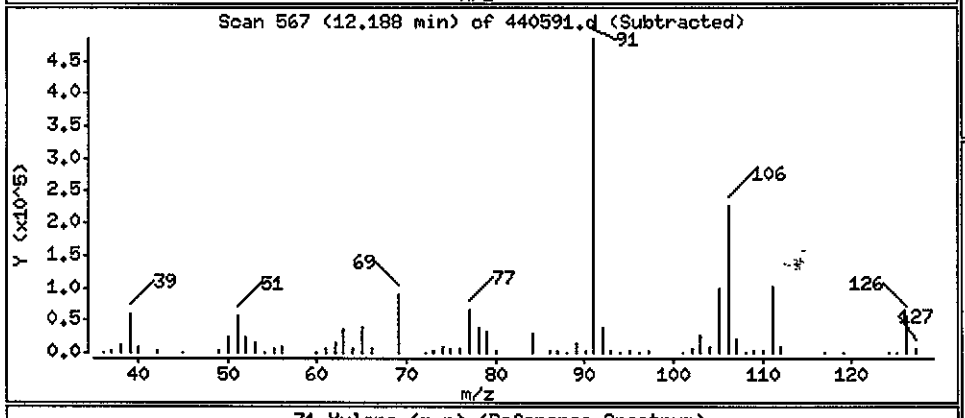
Column diameter: 0.35

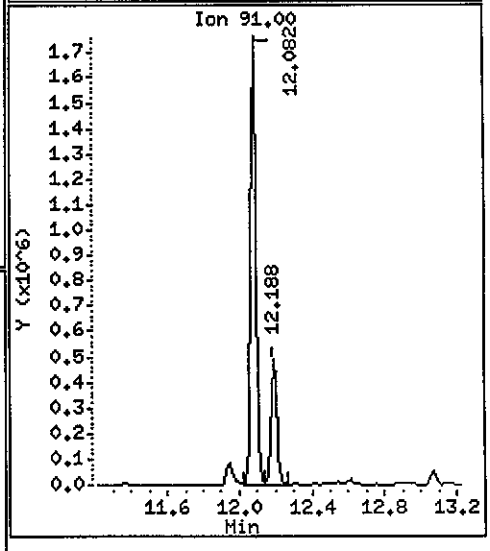
31 Xylene (m,p)

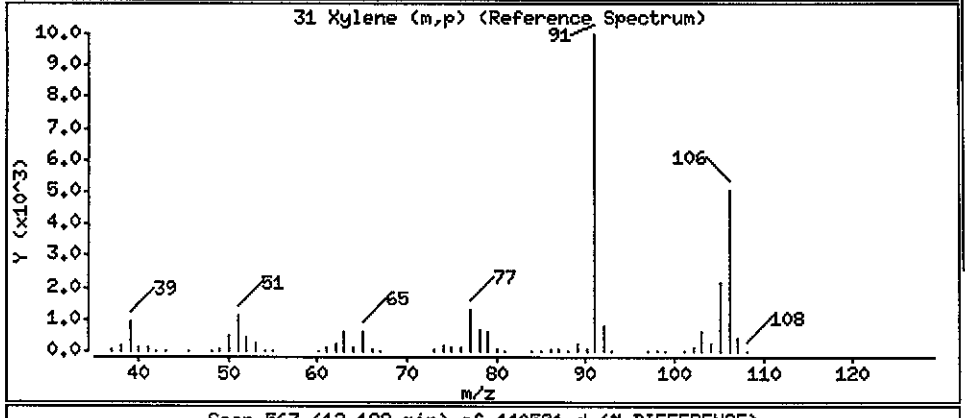
Concentration: 13 ppbv

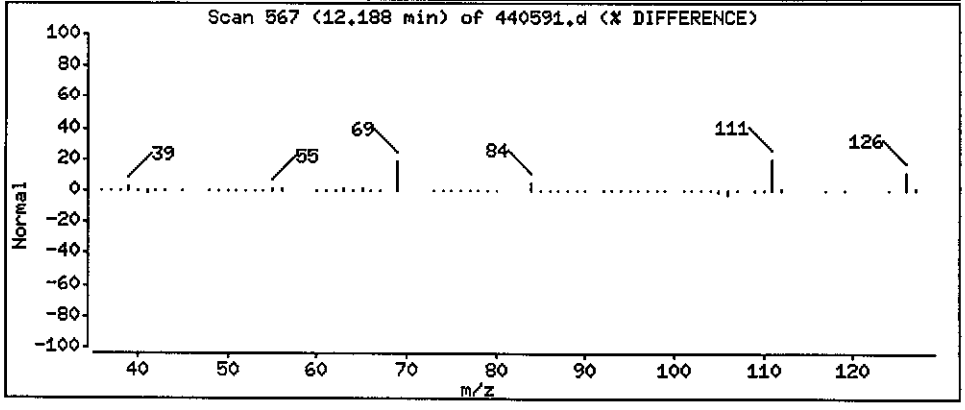












Data File: /chem/W.i/Wsvr.p/wceto14.b/440591.d

Date : 18-DEC-2000 17:41

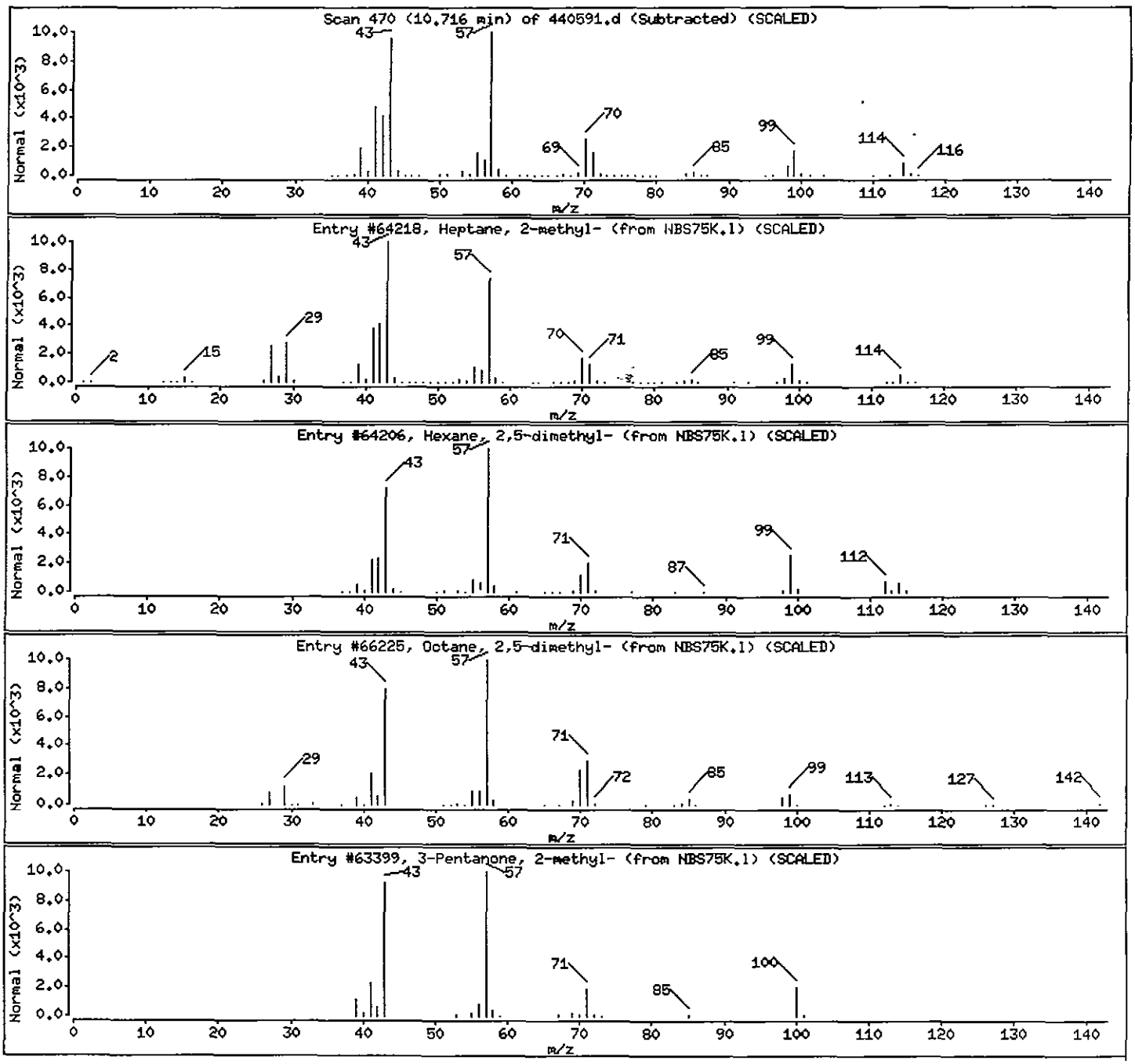
Client ID: CAEA12110007 Instrument: W.i

Sample Info: 440591;029ACAEA12110007;81024;1218L4

Purge Volume: 200.0 Operator: GHH

Column phase: DB-1 Column diameter: 0.35

Library Search Compound Hatch	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown aliphatic compound						
Heptane, 2-methyl-	592-27-8	NBS75K.l	64218	93	C8H18	114
Hexane, 2,5-dimethyl-	592-13-2	NBS75K.l	64206	83	C8H18	114
Octane, 2,5-dimethyl-	15869-89-3	NBS75K.l	66225	47	C10H22	142
3-Pentanone, 2-methyl-	565-69-5	NBS75K.l	63399	35	C6H12O	100



Data File: /chem/W.i/Wsvr.p/wceto14.b/440591.d

Date : 18-DEC-2000 17:41

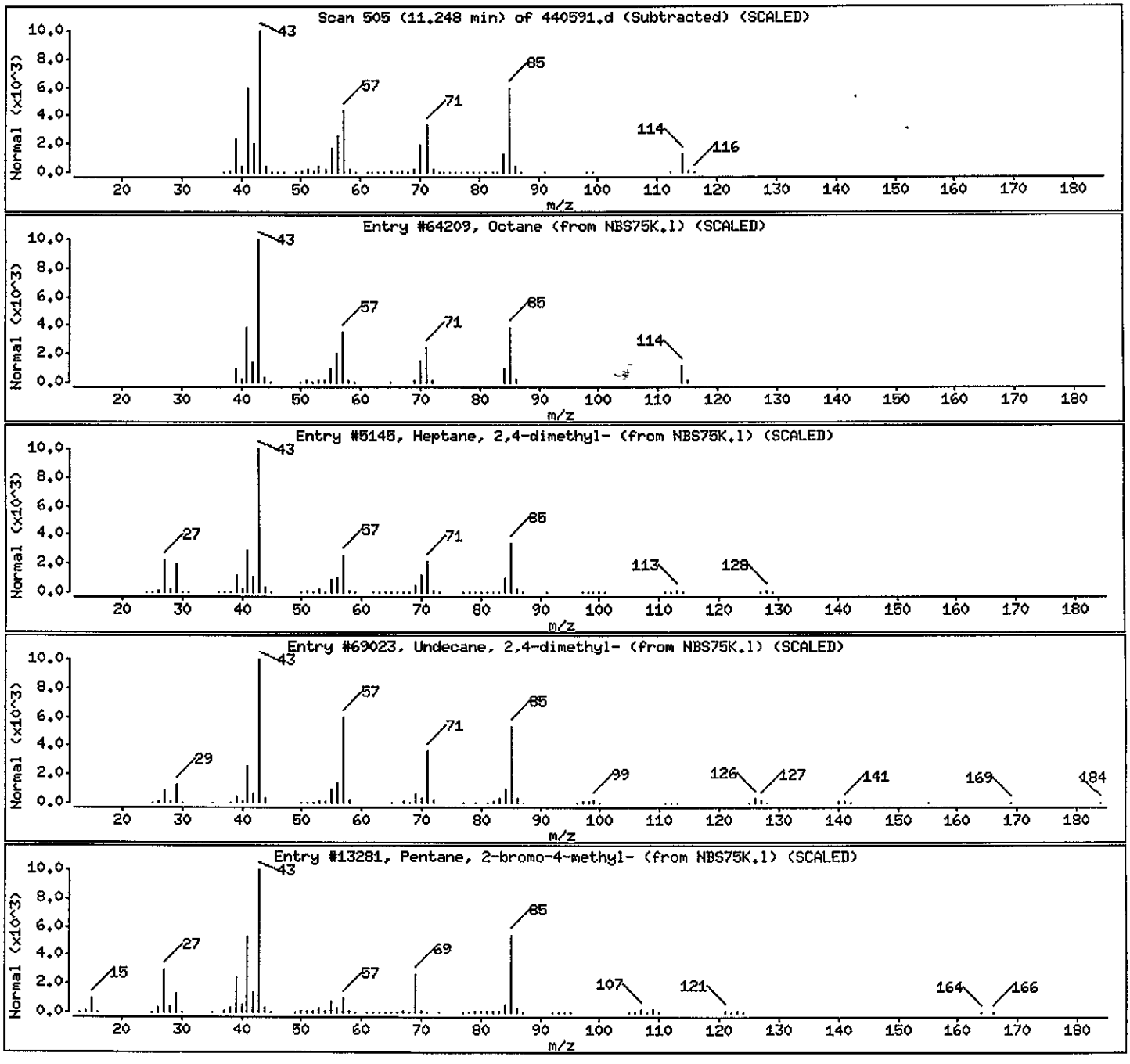
Client ID: CAEA12110007 Instrument: W.i

Sample Info: 440591;029ACAEA12110007;81024;1218L4

Purge Volume: 200.0 Operator: GMM

Column phase: DB-1 Column diameter: 0.35

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Octane	111-65-9	NBS75K.l	64209	91	C8H18	114
Heptane, 2,4-dimethyl-	2213-23-2	NBS75K.l	5145	59	C9H20	128
Undecane, 2,4-dimethyl-	17312-80-0	NBS75K.l	69023	50	C13H28	184
Pentane, 2-bromo-4-methyl-	30310-22-6	NBS75K.l	13281	47	C6H13Br	164



Data File: /chem/W.i/Wsvr.p/wceto14.b/440591.d

Date : 18-DEC-2000 17:41

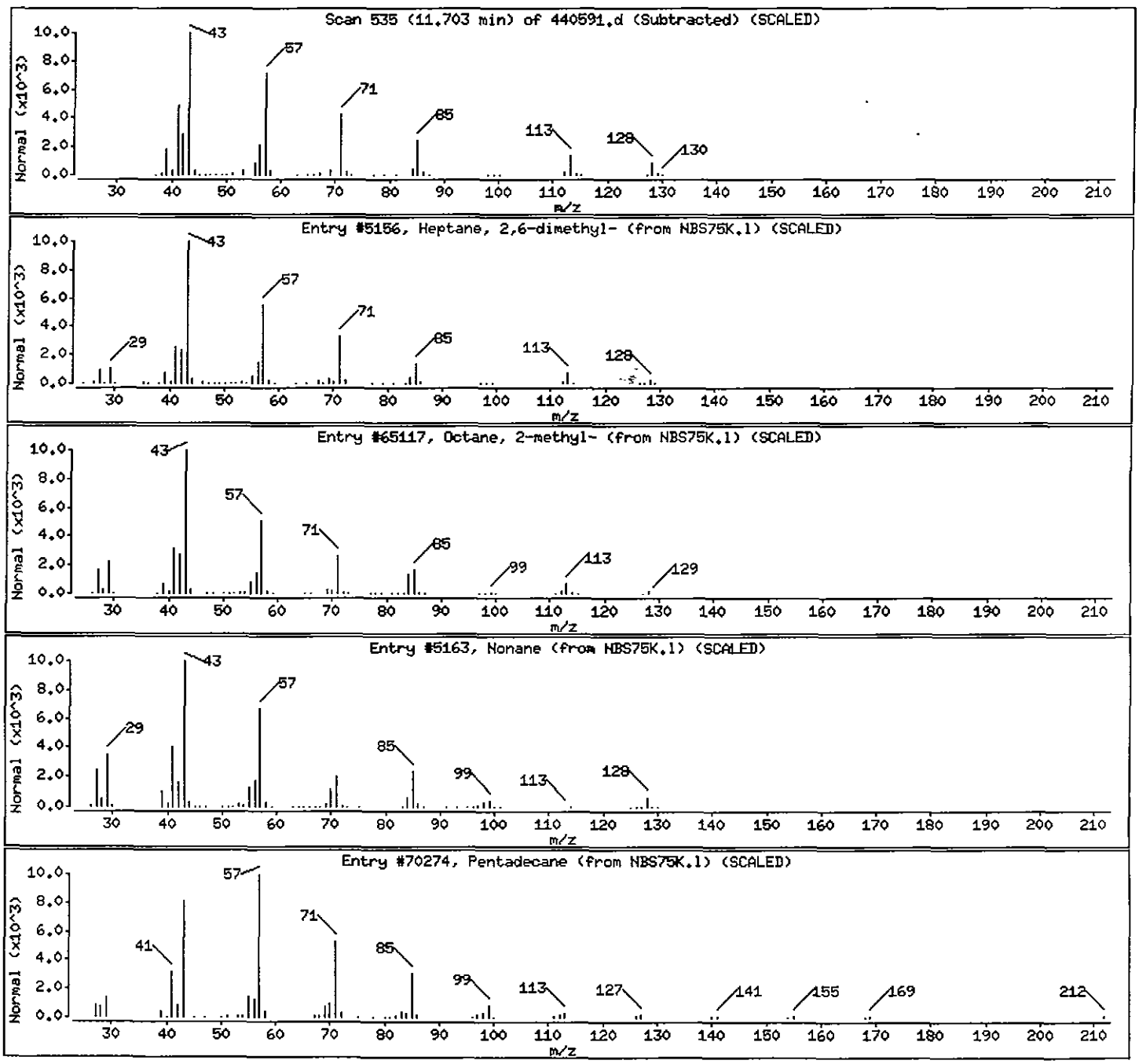
Client ID: CAEA12110007 Instrument: W.i

Sample Info: 440591;029ACAEA12110007;81024;1218L4

Purge Volume: 200.0 Operator: GMM

Column phase: DB-1 Column diameter: 0.35

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown aliphatic compound						
Heptane, 2,6-dimethyl-	1072-05-5	NBS75K.l	5156	78	C9H20	128
Octane, 2-methyl-	3221-61-2	NBS75K.l	65117	64	C9H20	128
Nonane	111-84-2	NBS75K.l	5163	52	C9H20	128
Pentadecane	629-62-9	NBS75K.l	70274	50	C15H32	212



Data File: /chem/W.i/Wsvr.p/wceto14.b/440591.d

Date : 18-DEC-2000 17:41

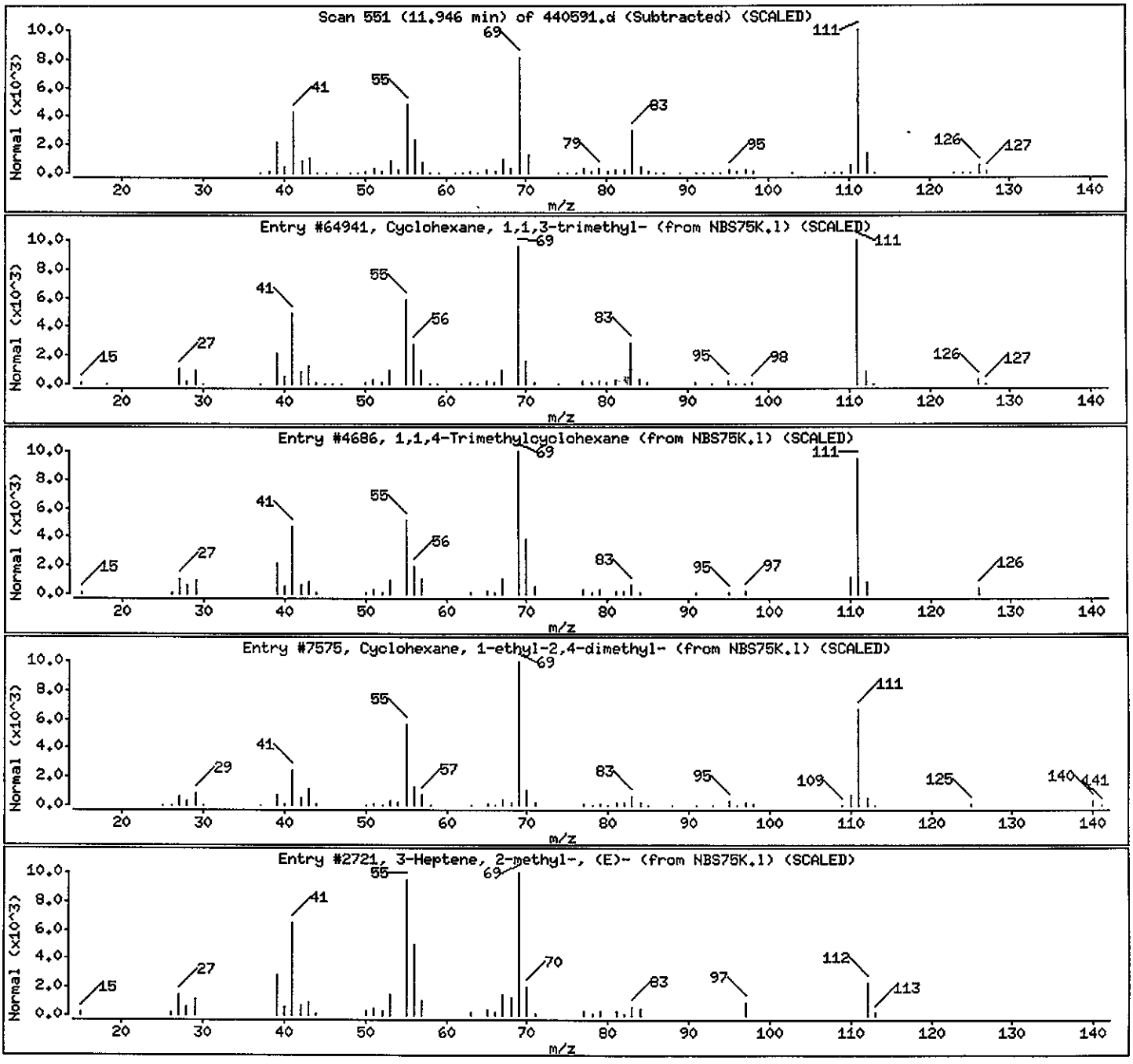
Client ID: CAEA12110007 Instrument: W.i

Sample Info: 440591:029ACAEA12110007:81024:1218L4

Purge Volume: 200.0 Operator: GMM

Column phase: DB-1 Column diameter: 0.35

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown aliphatic compound						
Cyclohexane, 1,1,3-trimethyl-	3073-66-3	NBS75K.l	64941	90	C9H18	126
1,1,4-Trimethylcyclohexane	7094-27-1	NBS75K.l	4686	68	C9H18	126
Cyclohexane, 1-ethyl-2,4-dimethyl-	61142-69-6	NBS75K.l	7575	50	C10H20	140
3-Heptene, 2-methyl-, (E)-	692-96-6	NBS75K.l	2721	46	C8H16	112



Data File: /chem/W.i/Wsvr.p/wceto14.b/440591.d

Date : 18-DEC-2000 17:41

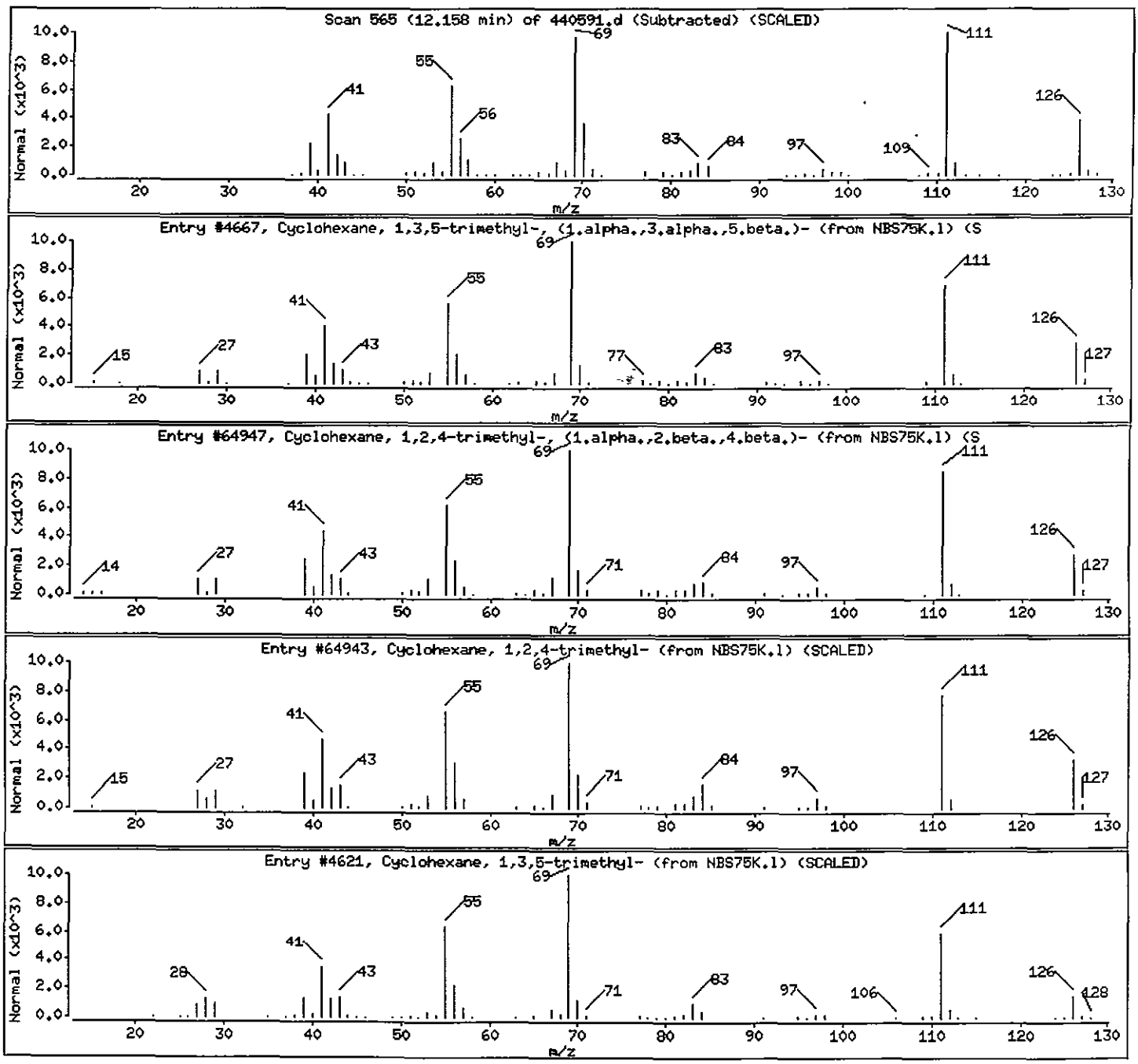
Client ID: CAEA12110007 Instrument: W.i

Sample Info: 440591;029ACAEA12110007;81024;1218L4

Purge Volume: 200.0 Operator: GMM

Column phase: DB-1 Column diameter: 0.35

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown alkylcyclohexane						
Cyclohexane, 1,3,5-trimethyl-, (1.alpha.	1795-26-2	NBS75K.l	4667	95	C9H18	126
Cyclohexane, 1,2,4-trimethyl-, (1.alpha.	7667-60-9	NBS75K.l	64947	95	C9H18	126
Cyclohexane, 1,2,4-trimethyl-	2234-75-5	NBS75K.l	64943	91	C9H18	126
Cyclohexane, 1,3,5-trimethyl-	1839-63-0	NBS75K.l	4621	90	C9H18	126



Data File: /chem/W.i/Wsvr.p/wceto14.b/440591.d

Date : 18-DEC-2000 17:41

Client ID: CAEA12110007

Instrument: W.i

Sample Info: 440591;029ACAEA12110007;81024;1218L4

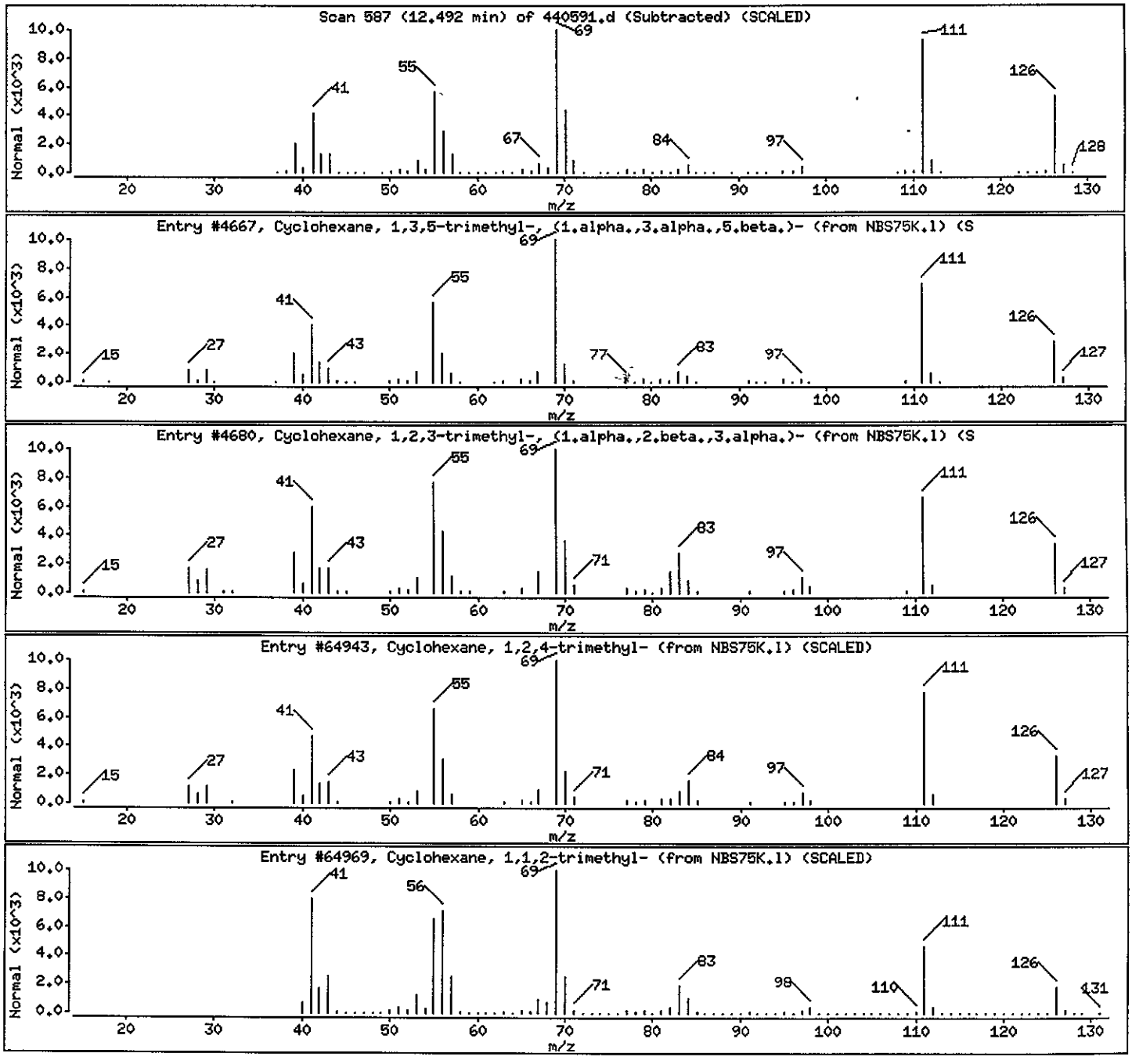
Purge Volume: 200.0

Operator: GMM

Column phase: DB-1

Column diameter: 0.35

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown alkylcyclohexane						
Cyclohexane, 1,3,5-trimethyl-, (1.alpha.	1795-26-2	NBS75K.l	4667	90	C9H18	126
Cyclohexane, 1,2,3-trimethyl-, (1.alpha.	1678-81-5	NBS75K.l	4680	86	C9H18	126
Cyclohexane, 1,2,4-trimethyl-	2234-75-5	NBS75K.l	64943	80	C9H18	126
Cyclohexane, 1,1,2-trimethyl-	7094-26-0	NBS75K.l	64969	72	C9H18	126



Data File: /chem/W.i/Wsvr.p/uceto14.b/440591.d

Date : 18-DEC-2000 17:41

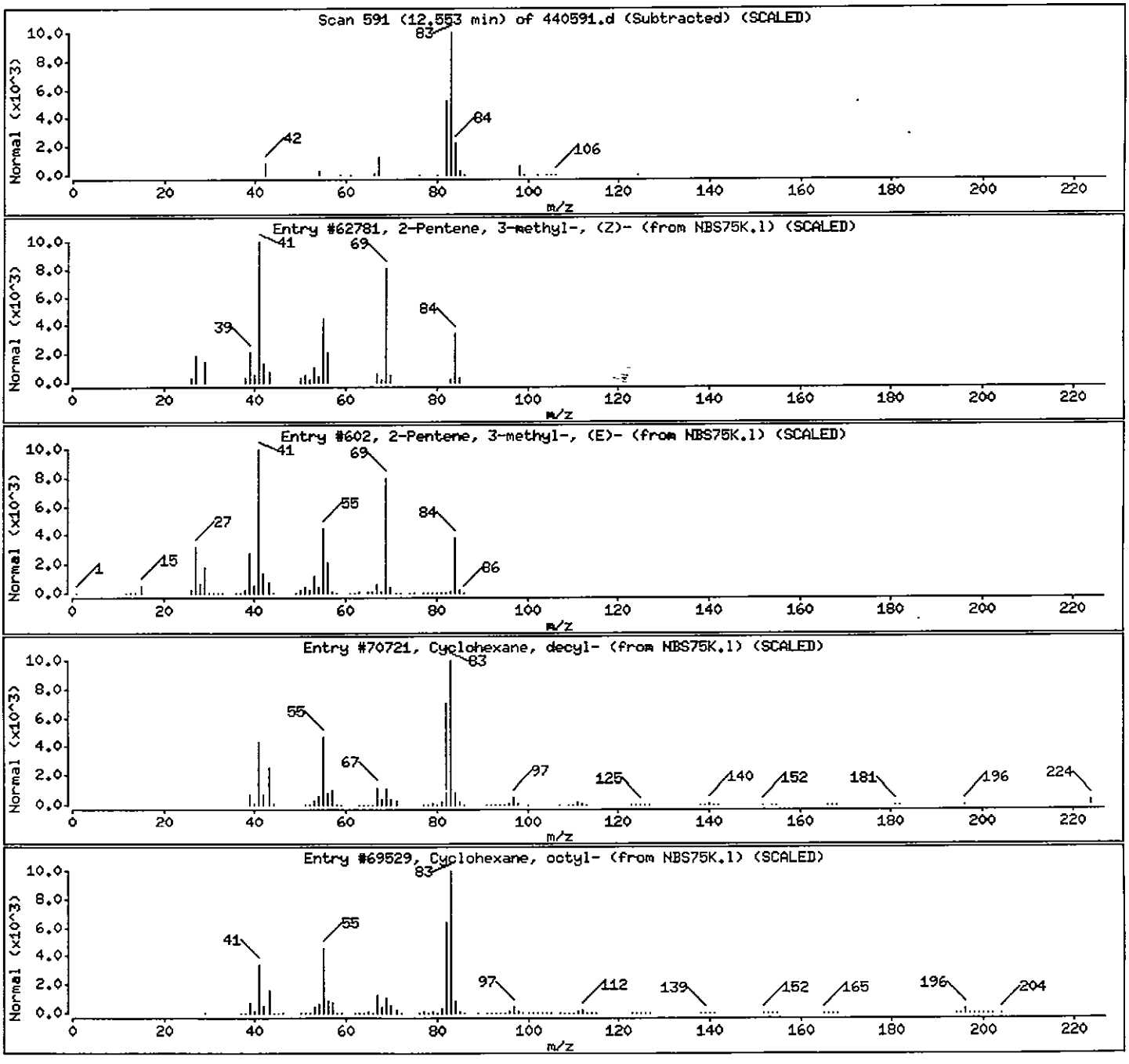
Client ID: CAEA12110007 Instrument: W.i

Sample Info: 440591;029ACAEA12110007;81024;1218L4

Purge Volume: 200.0 Operator: GHH

Column phase: DB-1 Column diameter: 0.35

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
2-Pentene, 3-methyl-, (Z)-	922-62-3	NBS75K.l	62781	9	C6H12	84
2-Pentene, 3-methyl-, (E)-	616-12-6	NBS75K.l	602	9	C6H12	84
Cyclohexane, decyl-	1795-16-0	NBS75K.l	70721	9	C16H32	224
Cyclohexane, octyl-	1795-15-9	NBS75K.l	69529	9	C14H28	196



Data File: /chem/W.i/Wsvr.p/wceto14.b/440591.d

Date : 18-DEC-2000 17:41

Client ID: CAEA12110007

Instrument: W.i

Sample Info: 440591;029ACAEA12110007;81024;1218L4

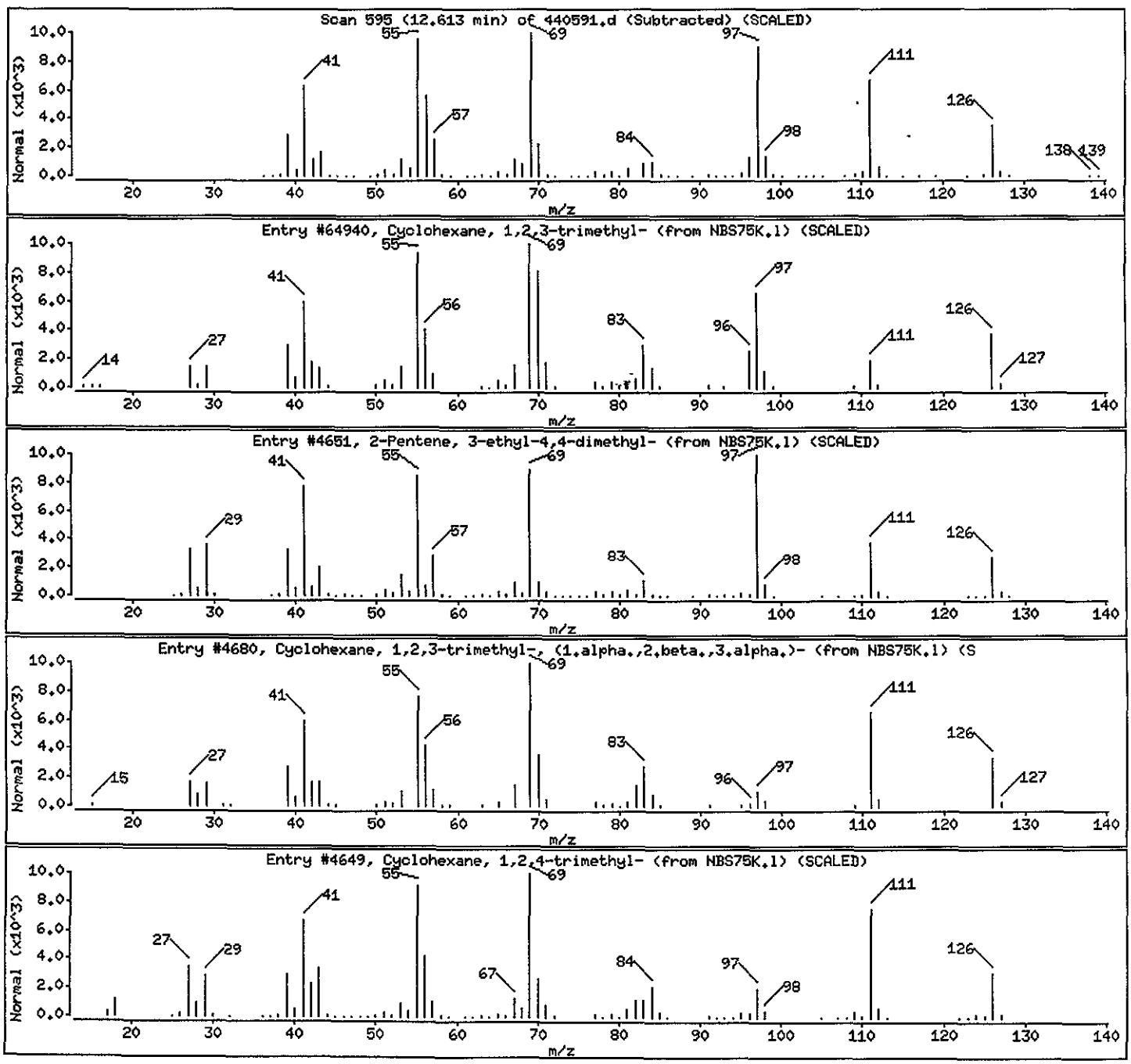
Purge Volume: 200.0

Operator: GMM

Column phase: DB-1

Column diameter: 0.35

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown aliphatic compound						
Cyclohexane, 1,2,3-trimethyl-	1678-97-3	NBS75K.l	64940	64	C9H18	126
2-Pentene, 3-ethyl-4,4-dimethyl-	53907-59-8	NBS75K.l	4651	58	C9H18	126
Cyclohexane, 1,2,3-trimethyl-, (1.alpha.	1678-81-5	NBS75K.l	4680	58	C9H18	126
Cyclohexane, 1,2,4-trimethyl-	2234-75-5	NBS75K.l	4649	52	C9H18	126



Data File: /chem/W.i/Wsvr.p/wceto14.b/440591.d

Date : 18-DEC-2000 17:41

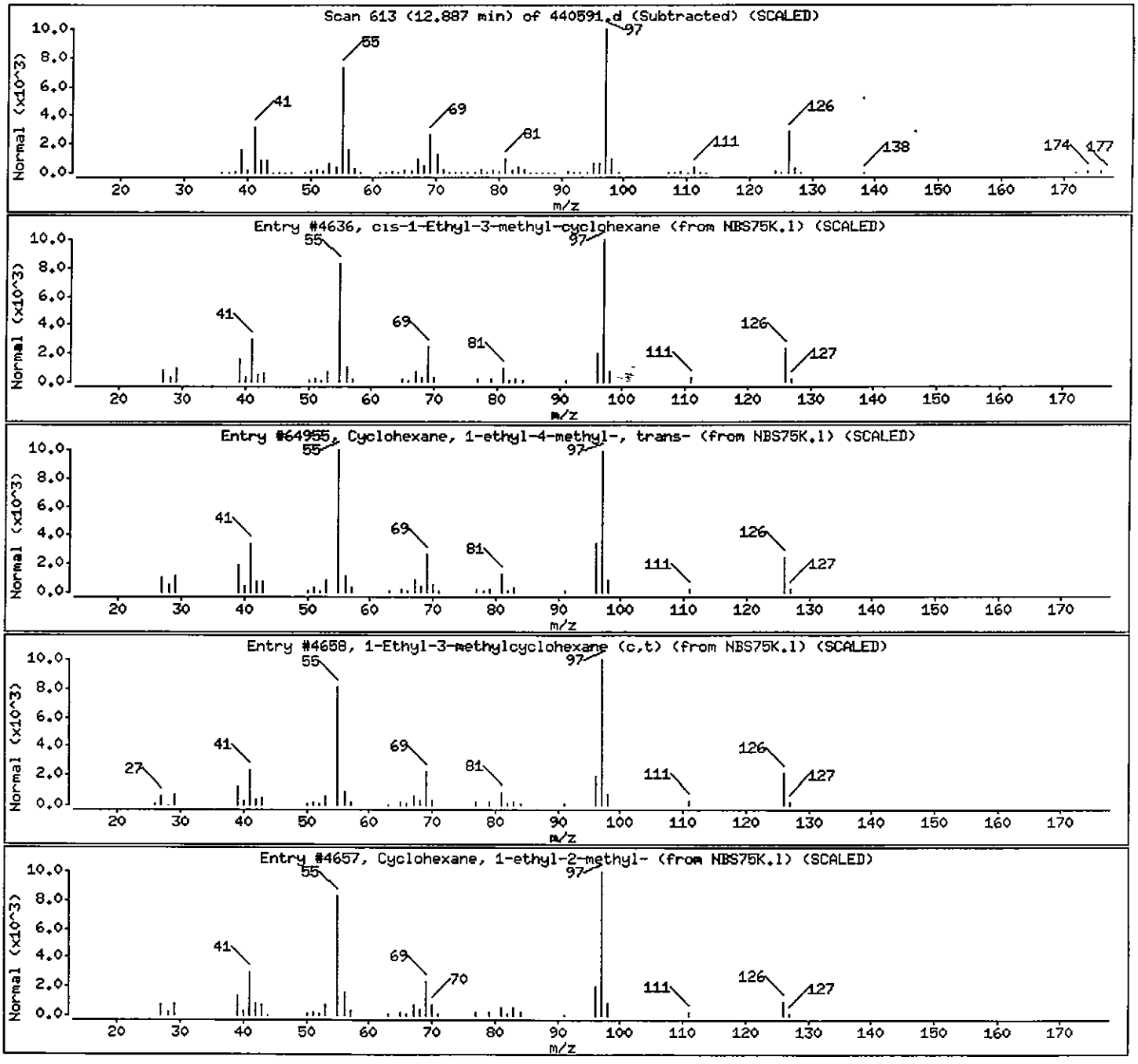
Client ID: CAEA12110007 Instrument: W.i

Sample Info: 440591;029ACAEA12110007;81024;1218L4

Purge Volume: 200.0 Operator: GMH

Column phase: DB-1 Column diameter: 0.35

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown alkylcyclohexane						
cis-1-Ethyl-3-methyl-cyclohexane	19489-10-2	NBS75K.l	4636	87	C9H18	126
Cyclohexane, 1-ethyl-4-methyl-, trans-	6236-88-0	NBS75K.l	64955	87	C9H18	126
1-Ethyl-3-methylcyclohexane (c,t)	3728-55-0	NBS75K.l	4658	87	C9H18	126
Cyclohexane, 1-ethyl-2-methyl-	3728-54-9	NBS75K.l	4657	83	C9H18	126



Data File: /chem/W.i/Wsvr.p/wceto14.b/440591.d

Date : 18-DEC-2000 17:41

Client ID: CAEA12110007

Instrument: W.i

Sample Info: 440591;029ACAEA12110007;81024;1218L4

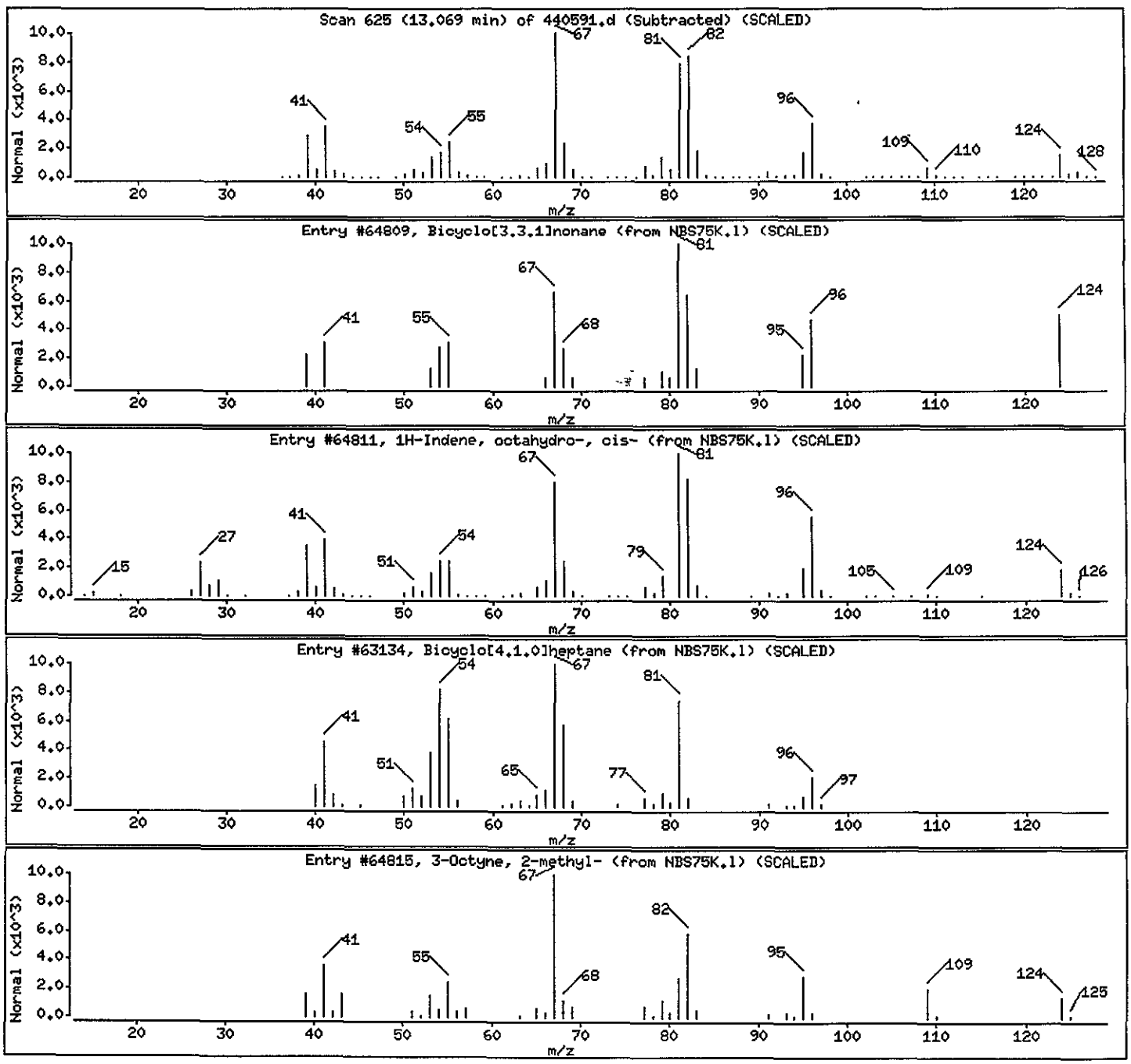
Purge Volume: 200.0

Operator: GMM

Column phase: DB-1

Column diameter: 0.35

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Bicyclo[3.3.1]nonane	280-65-9	NBS75K.1	64809	70	C9H16	124
1H-Indene, octahydro-, cis-	4551-51-3	NBS75K.1	64811	64	C9H16	124
Bicyclo[4.1.0]heptane	286-08-8	NBS75K.1	63134	49	C7H12	96
3-Octyne, 2-methyl-	55402-15-8	NBS75K.1	64815	49	C9H16	124



FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

ACCANA SAMPLE NO.

CAIA12110007

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 81024

Matrix: (soil/water) AIR Lab Sample ID: 440589

Sample wt/vol: 200 (g/mL) ML Lab File ID: 440589

Level: (low/med) LOW Date Received: 12/15/00

% Moisture: not dec. _____ Date Analyzed: 12/18/00

GC Column: DB-1 ID: 0.35 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) PPBV	Q
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl Chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-09-2	Methylene Chloride	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
67-66-3	Chloroform	0.82	
71-55-6	1,1,1-Trichloroethane	0.50	U
56-23-5	Carbon Tetrachloride	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-88-3	Toluene	0.50	U
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
1330-20-7	Xylene (total)	0.50	U
100-42-5	Styrene	0.50	U
1330-20-7	Xylene (m,p)	0.50	U
95-47-6	Xylene (o)	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

ACCANA SAMPLE NO.

CAIA12110007

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 81024

Matrix: (soil/water) AIR Lab Sample ID: 440589

Sample wt/vol: 200 (g/mL) ML Lab File ID: 440589

Level: (low/med) LOW Date Received: 12/15/00

% Moisture: not dec. _____ Date Analyzed: 12/18/00

GC Column: DB-1 ID: 0.35 (mm) Dilution Factor: 1.0

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

Number TICs found: 0

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

	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.					
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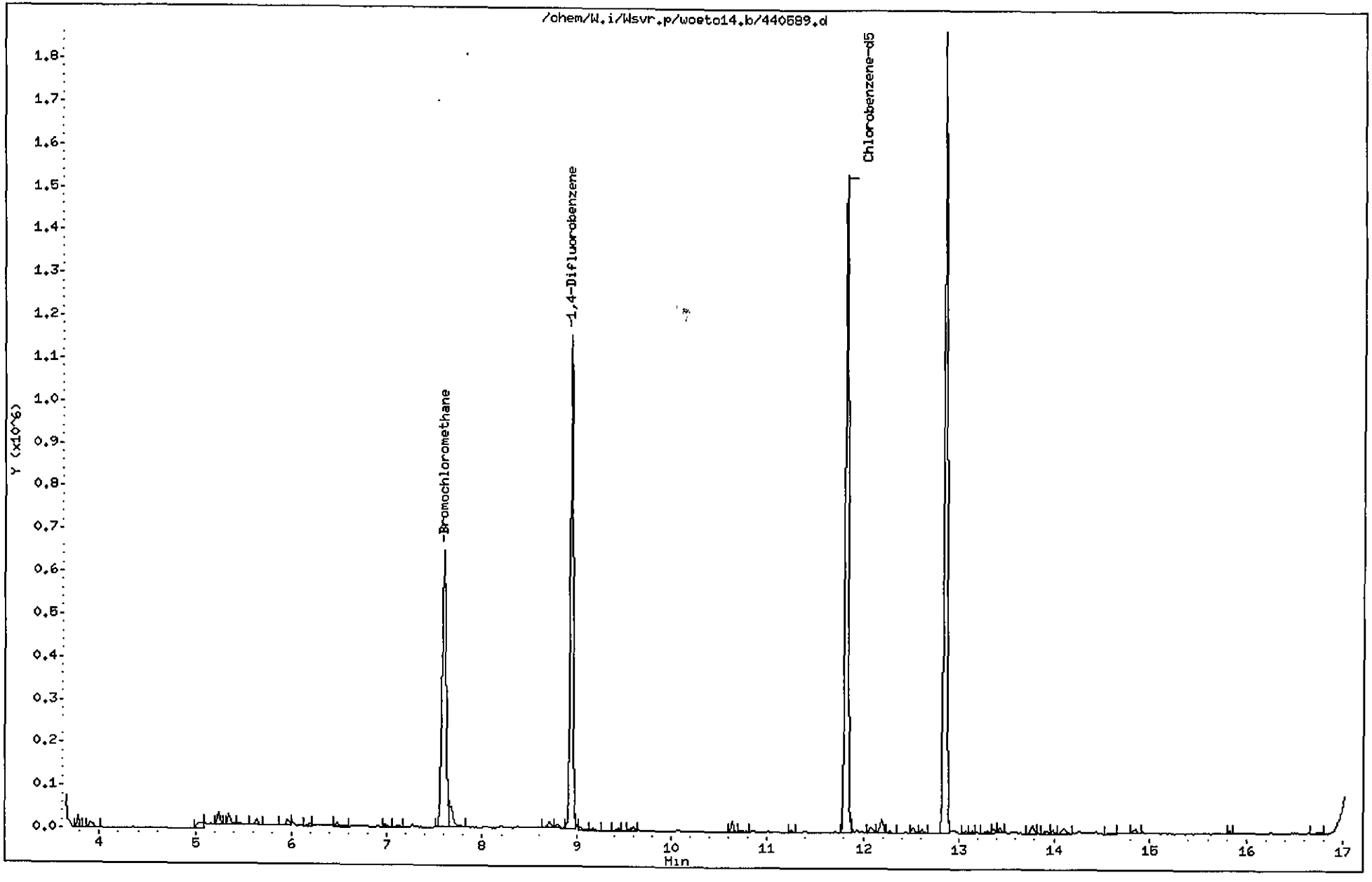
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					

Data File: /chem/W.i/Wsvr.p/woeto14.b/440589.d
Date : 18-DEC-2000 16:35
Client ID: CAIA12110007
Sample Info: 440589;029ACAIA12110007;81024;1218L4
Purge Volume: 200.0
Column phase: DB-1

Instrument: W.i

Operator: GMM
Column diameter: 0.35



STL Burlington

AIR TOXICS QUANTITATION REPORT

Data file : /chem/W.i/Wsvr.p/wceto14.b/440589.d
Lab Smp Id: 440589 Client Smp ID: CAIA12110007
Inj Date : 18-DEC-2000 16:35
Operator : GMM Inst ID: W.i
Smp Info : 440589;029ACAIA12110007;81024;1218L4
Misc Info :
Comment :
Method : /chem/W.i/Wsvr.p/wceto14.b/ato14.m
Meth Date : 26-Dec-2000 14:40 mim Quant Type: ISTD
Cal Date : 18-DEC-2000 13:44 Cal File: ce010i2.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ACCANA2.sub
Target Version: 3.50
Processing Host: chemsvr4

Concentration Formula: Amt * DF * X* Uf/Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
X	200.00000	method volume factor
Uf	1.00000	ng unit correction factor
Vo	200.00000	Sample Volume purged (mL)

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	FINAL (ppbv)	
2	Chloromethane	50	Compound Not Detected.						
4	Vinyl Chloride	62	Compound Not Detected.						
5	Bromomethane	94	Compound Not Detected.						
6	Chloroethane	64	Compound Not Detected.						
7	Trichlorofluoromethane	101	Compound Not Detected.						
9	Methylene Chloride	49	Compound Not Detected.						
11	1,1-Dichloroethane	63	Compound Not Detected.						
12	cis-1,2-Dichloroethene	61	Compound Not Detected.						
* 13	Bromochloromethane	128	7.592	7.621	(1.000)	276854	10.0000		(Q)
14	Chloroform	83	7.683	7.697	(1.012)	44740	0.82112	0.82	
15	1,2-Dichloroethane	62	Compound Not Detected.						
16	1,1,1-Trichloroethane	97	Compound Not Detected.						
17	Benzene	78	Compound Not Detected.						
18	Carbon Tetrachloride	117	Compound Not Detected.						

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)
*	19 1,4-Difluorobenzene	114	8.942	8.956	(1.000)	1017241	10.0000	
	20 1,2-Dichloropropane	63	Compound Not Detected.					
	21 Trichloroethene	95	Compound Not Detected.					
	22 cis-1,3-Dichloropropene	75	Compound Not Detected.					
	23 trans-1,3-Dichloropropene	75	Compound Not Detected.					
	24 1,1,2-Trichloroethane	83	Compound Not Detected.					
	25 Toluene	92	Compound Not Detected.					
	27 Tetrachloroethene	166	Compound Not Detected.					
*	28 Chlorobenzene-d5	117	11.826	11.840	(1.000)	1060364	10.0000	
	29 Chlorobenzene	112	Compound Not Detected.					
	30 Ethylbenzene	91	Compound Not Detected.					
	31 Xylene (m,p)	106	Compound Not Detected.					
	32 Styrene	104	Compound Not Detected.					
M	33 Xylene (total)	106	Compound Not Detected.					
	34 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					
	35 Xylene (o)	106	Compound Not Detected.					
	38 1,3-Dichlorobenzene	146	Compound Not Detected.					
	39 1,4-Dichlorobenzene	146	Compound Not Detected.					
	40 1,2-Dichlorobenzene	146	Compound Not Detected.					

QC Flag Legend

Q - Qualifier signal failed the ratio test.

STL Burlington

AIR TOXICS QUANTITATION REPORT

Data file : /chem/W.i/Wsvr.p/wceto14.b/440589.d
Lab Smp Id: 440589 Client Smp ID: CAIA12110007
Inj Date : 18-DEC-2000 16:35
Operator : GMM Inst ID: W.i
Smp Info : 440589;029ACAIA12110007;81024;1218L4
Misc Info :
Comment :
Method : /chem/W.i/Wsvr.p/wceto14.b/ato14.m
Meth Date : 26-Dec-2000 14:40 mim Quant Type: ISTD
Cal Date : 18-DEC-2000 13:44 Cal File: ce010i2.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ACCANA2.sub
Target Version: 3.50
Processing Host: chemsvr4

- NO TENTATIVELY IDENTIFIED COMPOUNDS -

Data File: /chem/W.i/Wsvr.p/wceto14.b/440589.d

Date : 18-DEC-2000 16:35

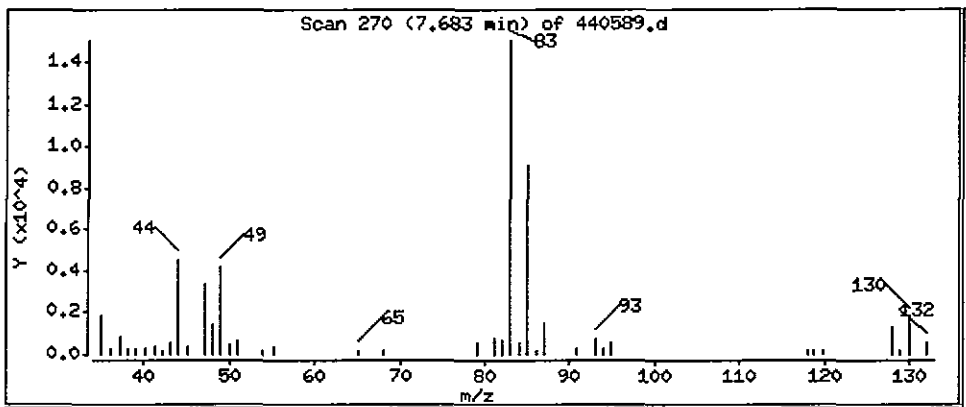
Client ID: CAIA12110007 Instrument: W.i

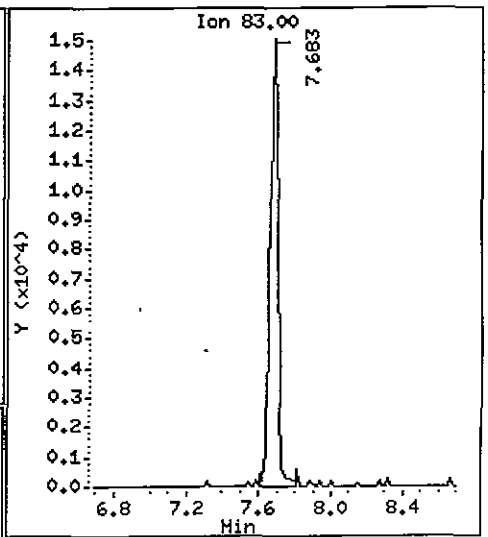
Sample Info: 440589;029ACAIA12110007;81024;1218L4

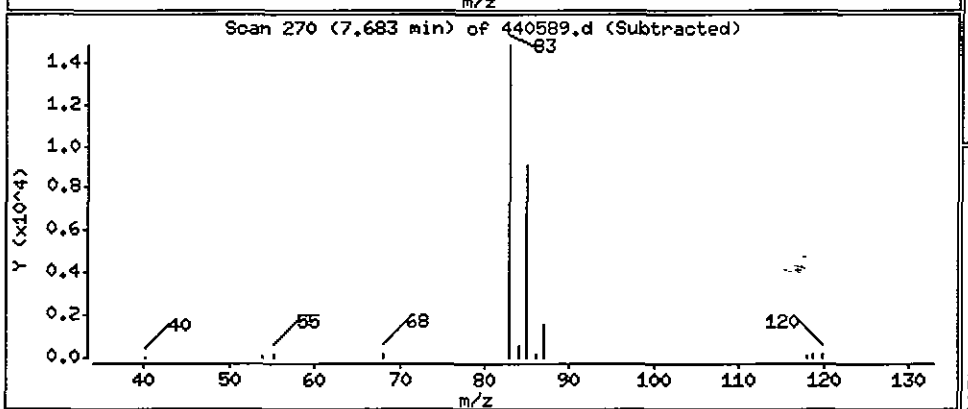
Purge Volume: 200.0 Operator: GHM

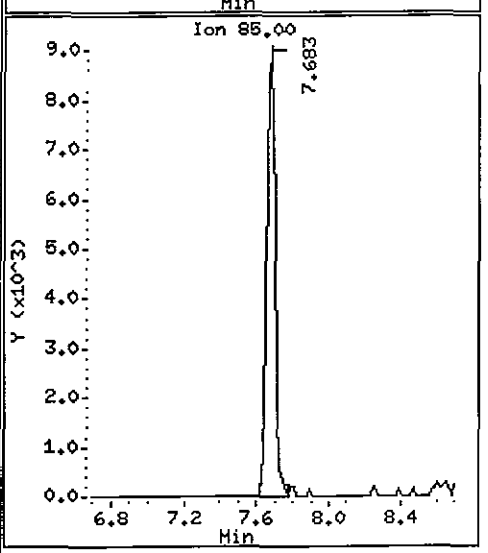
Column phase: DB-1 Column diameter: 0.35

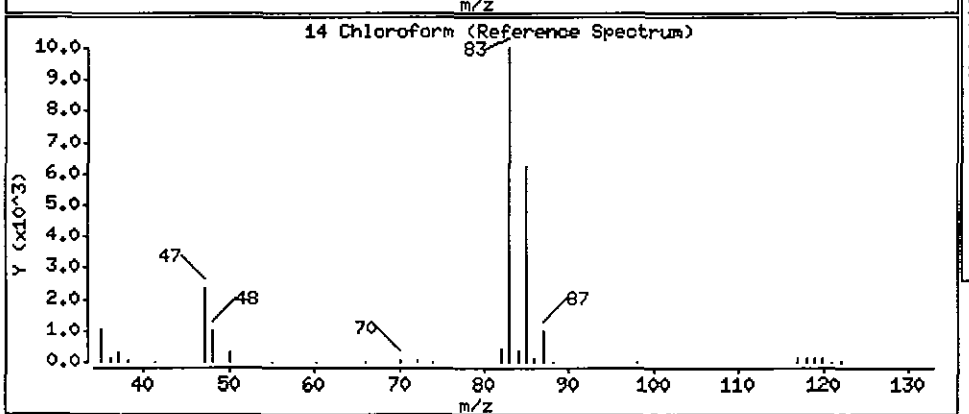
14 Chloroform Concentration: 0.82 ppbv

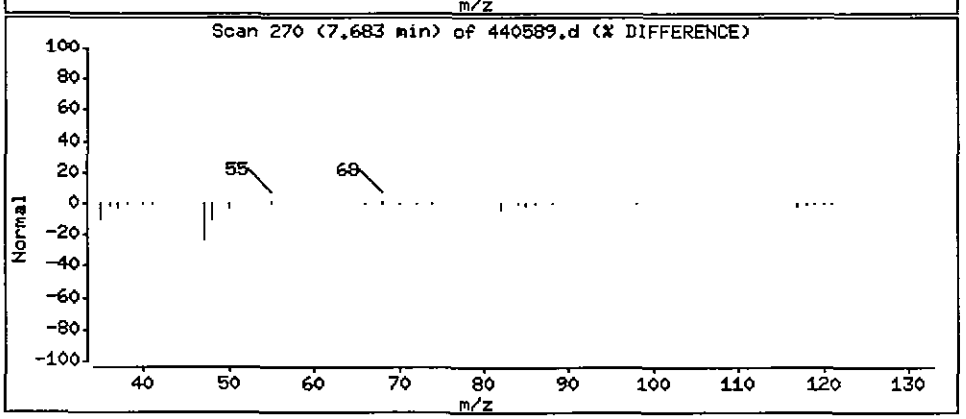












SEVERN TRENT SERVICES

Severn Trent Laboratories, Inc.

METHOD TO-14A
VOLATILE ORGANIC ANALYSIS

STANDARDS

6A
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 81024

Instrument ID: W Calibration Date(s): 12/18/00 12/18/00

Heated Purge: (Y/N) N Calibration Time(s): 1004 1344

GC Column: DB-1 ID: 0.35 (mm)

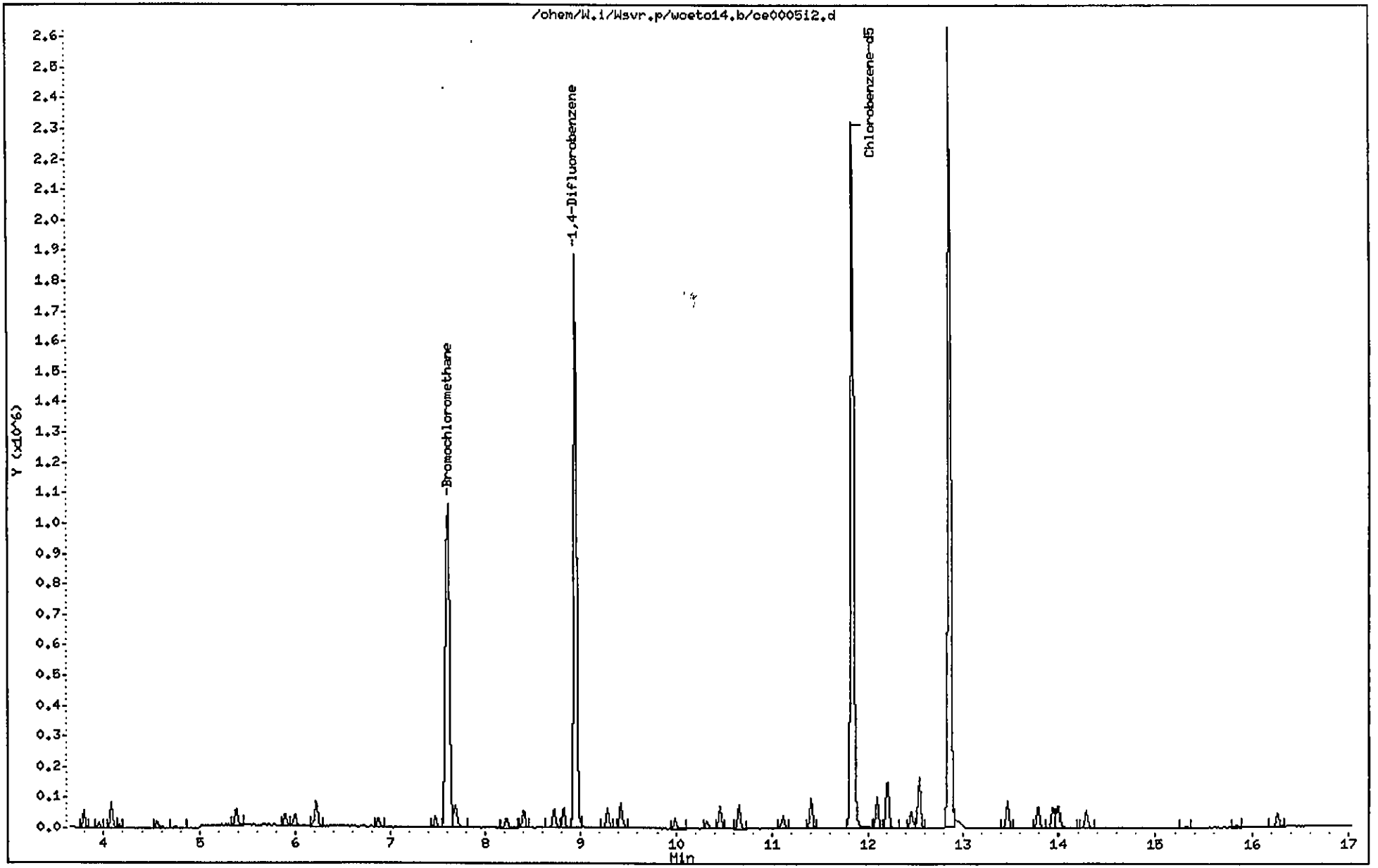
LAB FILE ID: RRF0.5=CE0005I2 RRF5 =CE005
RRF10 =CE010I2 RRF20 =CE020 RRF40 =CE040

COMPOUND	RRF0.5	RRF5	RRF10	RRF20	RRF40	$\overline{RRF}$	% RSD
Chloromethane *	0.676	0.647	0.614	0.523	0.506	0.593	12.7*
Vinyl Chloride	0.684	0.692	0.670	0.585	0.560	0.638	9.6
Bromomethane	0.930	0.929	0.813	0.716	0.726	0.823	12.7
Chloroethane	0.428	0.438	0.397	0.338	0.364	0.393	10.7
Trichlorofluoromethane	2.520	2.478	2.222	2.042	1.935	2.239	11.5
Methylene Chloride	1.446	0.967	0.906	0.773	0.762	0.971	28.8
1,1-Dichloroethane *	1.704	1.696	1.495	1.291	1.260	1.489	14.3*
cis-1,2-Dichloroethene	1.192	1.248	1.102	1.064	0.950	1.111	10.4
Chloroform	2.265	2.167	1.952	1.815	1.642	1.968	12.9
1,1,1-Trichloroethane	2.100	2.091	1.801	1.750	1.609	1.870	11.6
Carbon Tetrachloride	0.491	0.445	0.427	0.381	0.360	0.421	12.3
Benzene	0.698	0.610	0.551	0.514	0.480	0.571	15.1
1,2-Dichloroethane	1.482	1.427	1.286	1.240	1.175	1.322	9.7
Trichloroethene	0.331	0.301	0.273	0.249	0.232	0.277	14.3
1,2-Dichloropropane	0.255	0.231	0.210	0.194	0.181	0.214	13.8
cis-1,3-Dichloropropene	0.246	0.253	0.258	0.256	0.263	0.255	2.5
Toluene	0.421	0.442	0.404	0.361	0.354	0.396	9.6
trans-1,3-Dichloropropene	0.172	0.182	0.166	0.189	0.194	0.181	6.3
1,1,2-Trichloroethane	0.264	0.248	0.227	0.206	0.192	0.227	12.9
Tetrachloroethene	0.358	0.342	0.309	0.279	0.272	0.312	12.1
Chlorobenzene *	0.660	0.562	0.521	0.462	0.445	0.530	16.3*
Ethylbenzene	1.003	1.015	0.938	0.819	0.788	0.913	11.4
Xylene (total)	1.097	1.031	0.992	0.889	0.902	0.982	8.9
Styrene	0.363	0.243	0.334	0.360	0.343	0.329	15.0
Xylene (m,p)	0.368	0.347	0.334	0.298	0.302	0.330	9.0
Xylene (o)	0.362	0.337	0.324	0.293	0.297	0.323	8.9
1,1,2,2-Tetrachloroethane	0.661	0.542	0.513	0.459	0.451	0.525	16.1
1,3-Dichlorobenzene	0.478	0.424	0.398	0.398	0.434	0.426	7.8
1,4-Dichlorobenzene	0.558	0.374	0.408	0.405	0.433	0.436	16.4
1,2-Dichlorobenzene	0.394	0.306	0.319	0.330	0.366	0.343	10.6

* Compounds with required minimum RRF and maximim %RSD values.
All other compounds must meet a minimim RRF of 0.010.

Data File: /chem/W.i/Wsvr.p/woeto14.b/ce0005i2.d
Date : 18-DEC-2000 12:23
Client ID: ASTD0005
Sample Info: ASTD0005;ASTD0005
Purge Volume: 200.0
Column phase: DB-1

Instrument: W.i
Operator: GHM
Column diameter: 0.35



STL Burlington

AIR TOXICS QUANTITATION REPORT

Data file : /chem/W.i/Wsvr.p/wceto14.b/ce0005i2.d
Lab Smp Id: ASTD0005 Client Smp ID: ASTD0005
Inj Date : 18-DEC-2000 12:23
Operator : GMM Inst ID: W.i
Smp Info : ASTD0005;ASTD0005
Misc Info :
Comment :
Method : /chem/W.i/Wsvr.p/wceto14.b/ato14.m
Meth Date : 26-Dec-2000 14:39 mim Quant Type: ISTD
Cal Date : 18-DEC-2000 12:23 Cal File: ce0005i2.d
Als bottle: 1 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50
Processing Host: chemsvr4

Concentration Formula: Amt * DF * X* Uf/Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
X	200.00000	method volume factor
Uf	1.00000	ng unit correction factor
Vo	200.00000	Sample Volume purged (mL)

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	AMOUNTS ON-COL (ppbv)
1	Dichlorodifluoromethane	85	3.796	3.797	(0.499)	53040	0.50000	0.60
2	Chloromethane	50	3.955	3.955	(0.520)	12675	0.50000	0.57
3	Dichlorotetrafluoroethane	85	4.084	4.085	(0.537)	55549	0.50000	0.62
4	Vinyl Chloride	62	4.171	4.171	(0.548)	12834	0.50000	0.54
5	Bromomethane	94	4.546	4.546	(0.598)	17437	0.50000	0.56
6	Chloroethane	64	4.748	4.719	(0.624)	8035	0.50000	0.55
7	Trichlorofluoromethane	101	5.391	5.375	(0.709)	47243	0.50000	0.56
8	1,1-Dichloroethene	96	5.907	5.891	(0.777)	17351	0.50000	0.58(M)
9	Methylene Chloride	49	5.998	5.982	(0.789)	27113	0.50000	0.73
10	Freon TF	101	6.210	6.210	(0.816)	39975	0.50000	0.59
11	1,1-Dichloroethane	63	6.878	6.892	(0.904)	31950	0.50000	0.57
12	cis-1,2-Dichloroethene	61	7.470	7.484	(0.982)	22343	0.50000	0.54
* 13	Bromochloromethane	128	7.607	7.621	(1.000)	374987	10.0000	
14	Chloroform	83	7.682	7.697	(1.010)	42461	0.50000	0.57

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	ON-COL (ppbv)
	15 1,2-Dichloroethane	62	8.229	8.243	(1.082)	27782	0.50000	0.56
	16 1,1,1-Trichloroethane	97	8.396	8.425	(1.104)	39376	0.50000	0.56
	17 Benzene	78	8.730	8.744	(0.976)	59605	0.50000	0.61
	18 Carbon Tetrachloride	117	8.821	8.835	(0.986)	41908	0.50000	0.58
*	19 1,4-Difluorobenzene	114	8.942	8.956	(1.000)	1707532	10.0000	
	20 1,2-Dichloropropane	63	9.276	9.290	(1.037)	21753	0.50000	0.59
	21 Trichloroethene	95	9.428	9.442	(1.054)	28232	0.50000	0.59
	24 1,1,2-Trichloroethane	83	10.460	10.474	(1.170)	22526	0.50000	0.58
	25 Toluene	92	10.657	10.656	(0.900)	36694	0.50000	0.53
	26 1,2-Dibromoethane	107	11.112	11.126	(0.938)	30344	0.50000	0.53
	27 Tetrachloroethene	166	11.416	11.415	(0.964)	31211	0.50000	0.57
*	28 Chlorobenzene-d5	117	11.841	11.840	(1.000)	1741227	10.0000	
	29 Chlorobenzene	112	11.871	11.870	(1.003)	57496	0.50000	0.62(Q)
	30 Ethylbenzene	91	12.099	12.098	(1.022)	87352	0.50000	0.55
	31 Xylene (m,p)	106	12.220	12.219	(1.032)	64016	1.00000	1.1
	32 Styrene	104	12.463	12.462	(1.053)	31615	0.50000	0.55
M	33 Xylene (total)	106				95537	0.50000	1.7
	34 1,1,2,2-Tetrachloroethane	83	12.523	12.523	(1.058)	57530	0.50000	0.62
	35 Xylene (o)	106	12.539	12.538	(1.059)	31521	0.50000	0.56
	36 1,3,5-Trimethylbenzene	105	13.464	13.463	(1.137)	59560	0.50000	0.52
	37 1,2,4-Trimethylbenzene	105	13.798	13.782	(1.165)	55772	0.50000	0.53
	38 1,3-Dichlorobenzene	146	13.950	13.934	(1.178)	41631	0.50000	0.55
	39 1,4-Dichlorobenzene	146	13.996	13.995	(1.182)	48546	0.50000	0.63
	40 1,2-Dichlorobenzene	146	14.284	14.283	(1.206)	34349	0.50000	0.56
	42 Hexachlorobutadiene	225	16.257	16.271	(1.373)	10308	0.50000	0.69

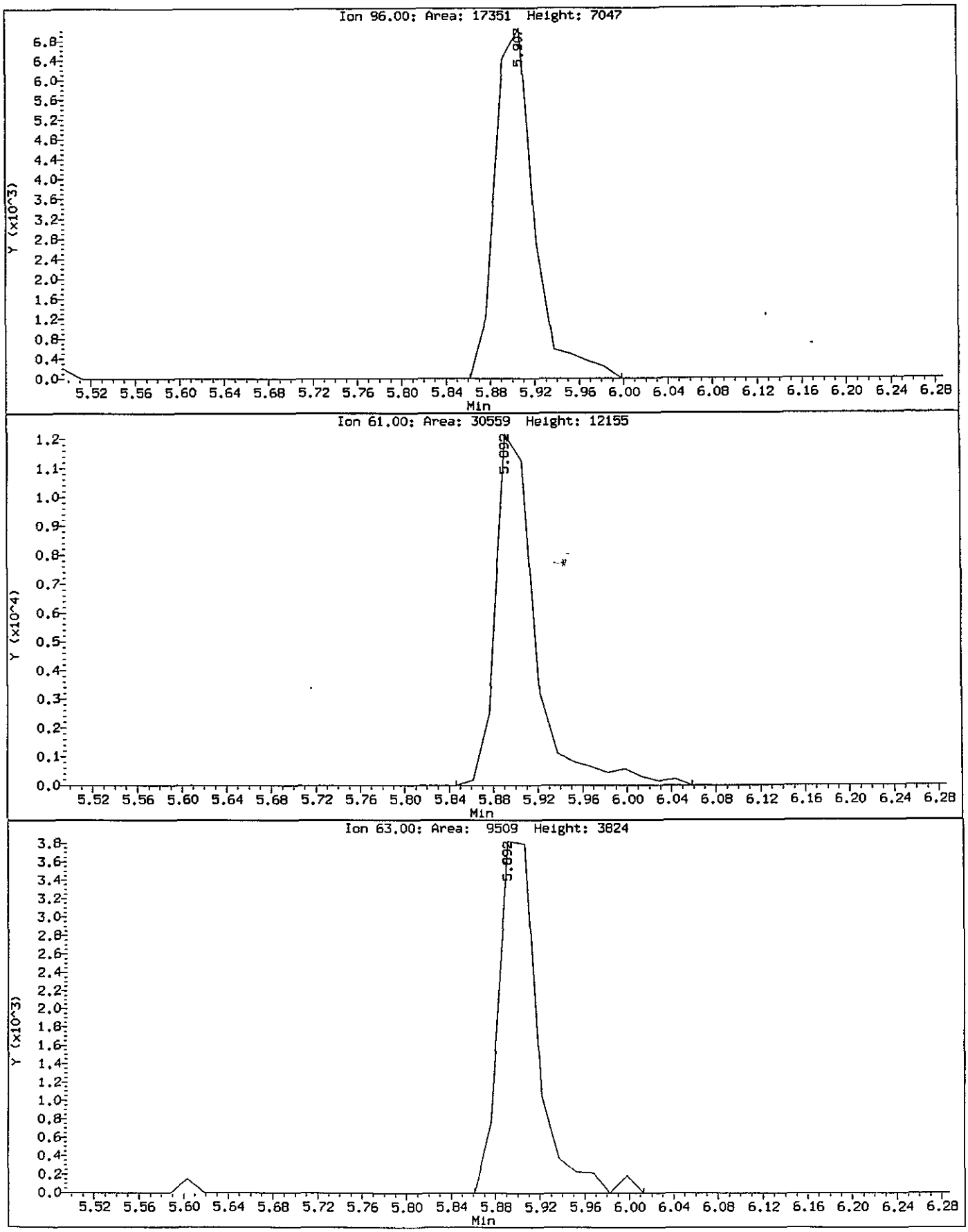
QC Flag Legend

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

MCM 12/26/00

Data File: /chem/W.i/Wsvr.p/wceto14.b/ce000512.d
Injection Date: 18-DEC-2000 12:23
Instrument: W.i
Client Sample ID: ASTD0005

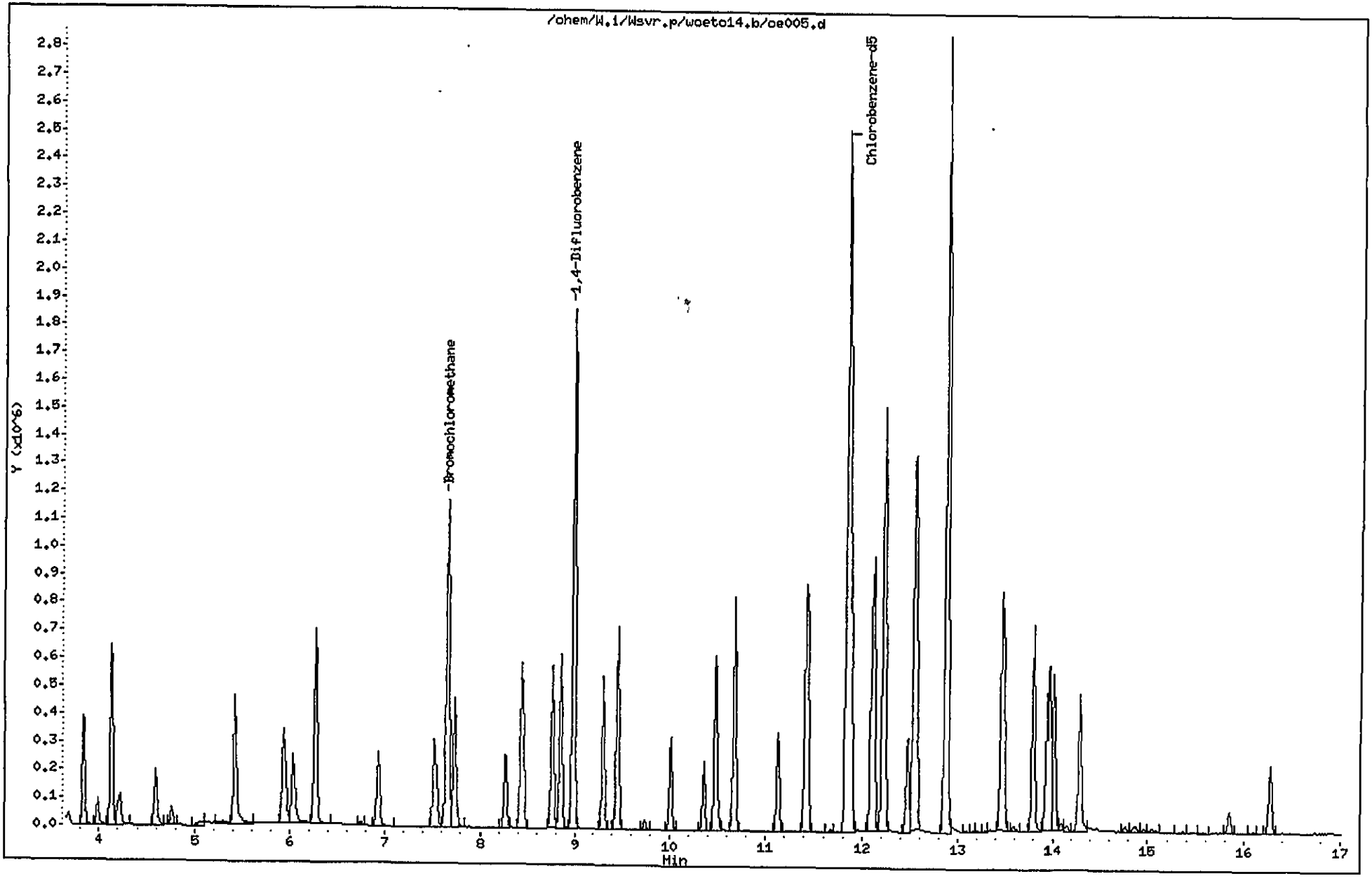
Compound: 1,1-Dichloroethene
CAS Number: 75-35-4



Data File: /chem/W.i/Wsvr.p/wcet014.b/ce005.d
Date : 18-DEC-2000 11:14
Client ID: ASTD005
Sample Info: ASTD005:ASTD005
Purge Volume: 200.0
Column phase: DB-1

Instrument: W.i

Operator: GMM
Column diameter: 0.35



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STL Burlington

AIR TOXICS QUANTITATION REPORT

Data file : /chem/W.i/Wsvr.p/wceto14.b/ce005.d
Lab Smp Id: ASTD005 Client Smp ID: ASTD005
Inj Date : 18-DEC-2000 11:14
Operator : GMM Inst ID: W.i
Smp Info : ASTD005;ASTD005
Misc Info :
Comment :
Method : /chem/W.i/Wsvr.p/wceto14.b/ato14.m
Meth Date : 26-Dec-2000 14:39 mim Quant Type: ISTD
Cal Date : 18-DEC-2000 11:14 Cal File: ce005.d
Als bottle: 2 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50
Processing Host: chemsvr4

Concentration Formula: Amt * DF * X* Uf/Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
X	200.00000	method volume factor
Uf	1.00000	ng unit correction factor
Vo	200.00000	Sample Volume purged (mL)

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	AMOUNTS ON-COL (ppbv)
1	Dichlorodifluoromethane	85	3.826	3.797	(0.500)	455491	5.00000	5.8
2	Chloromethane	50	3.984	3.955	(0.521)	115259	5.00000	5.8
3	Dichlorotetrafluoroethane	85	4.128	4.085	(0.540)	459013	5.00000	5.9
4	Vinyl Chloride	62	4.215	4.171	(0.551)	123329	5.00000	5.6
5	Bromomethane	94	4.590	4.546	(0.600)	165580	5.00000	5.9
6	Chloroethane	64	4.763	4.719	(0.622)	77955	5.00000	5.8(M)
7	Trichlorofluoromethane	101	5.420	5.375	(0.708)	441487	5.00000	5.8
8	1,1-Dichloroethene	96	5.936	5.891	(0.776)	156763	5.00000	5.8
9	Methylene Chloride	49	6.027	5.982	(0.788)	172276	5.00000	5.8
10	Freon TF	101	6.255	6.210	(0.818)	349080	5.00000	5.7
11	1,1-Dichloroethane	63	6.922	6.892	(0.905)	302152	5.00000	6.0
12	cis-1,2-Dichloroethene	61	7.514	7.484	(0.982)	222320	5.00000	5.7
* 13	Bromochloromethane	128	7.651	7.621	(1.000)	356359	10.0000	(Q)
14	Chloroform	83	7.727	7.697	(1.010)	386124	5.00000	5.8

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	AMOUNTS ON-COL (ppbv)
	15 1,2-Dichloroethane	62	8.258	8.243	(1.079)	254219	5.00000	5.6
	16 1,1,1-Trichloroethane	97	8.440	8.425	(1.103)	372515	5.00000	5.8
	17 Benzene	78	8.759	8.744	(0.976)	512312	5.00000	5.7
	18 Carbon Tetrachloride	117	8.850	8.835	(0.986)	373259	5.00000	5.6
*	19 1,4-Difluorobenzene	114	8.971	8.956	(1.000)	1678381	10.0000	
	20 1,2-Dichloropropane	63	9.305	9.290	(1.037)	193828	5.00000	5.7
	21 Trichloroethene	95	9.457	9.442	(1.054)	252951	5.00000	5.8
	22 cis-1,3-Dichloropropene	75	10.018	10.003	(1.117)	212702	5.00000	4.9
	23 trans-1,3-Dichloropropene	75	10.352	10.337	(1.154)	152952	5.00000	4.8
	24 1,1,2-Trichloroethane	83	10.473	10.474	(1.167)	208406	5.00000	5.8
	25 Toluene	92	10.671	10.656	(0.901)	390635	5.00000	5.7
	26 1,2-Dibromoethane	107	11.126	11.126	(0.940)	309253	5.00000	5.5
	27 Tetrachloroethene	166	11.430	11.415	(0.965)	301986	5.00000	5.7
*	28 Chlorobenzene-d5	117	11.839	11.840	(1.000)	1767689	10.0000	
	29 Chlorobenzene	112	11.870	11.870	(1.003)	496693	5.00000	5.7
	30 Ethylbenzene	91	12.112	12.098	(1.023)	896786	5.00000	5.8
	31 Xylene (m,p)	106	12.219	12.219	(1.032)	613146	10.0000	11
	32 Styrene	104	12.477	12.462	(1.054)	214881	5.00000	3.8
M	33 Xylene (total)	106				911296	5.00000	16
	34 1,1,2,2-Tetrachloroethane	83	12.537	12.523	(1.059)	478780	5.00000	5.6
	35 Xylene (o)	106	12.553	12.538	(1.060)	298150	5.00000	5.4
	36 1,3,5-Trimethylbenzene	105	13.463	13.463	(1.137)	595494	5.00000	5.2
	37 1,2,4-Trimethylbenzene	105	13.797	13.782	(1.165)	520967	5.00000	5.0
	38 1,3-Dichlorobenzene	146	13.949	13.934	(1.178)	375239	5.00000	5.1
	39 1,4-Dichlorobenzene	146	13.994	13.995	(1.182)	330578	5.00000	4.6
	40 1,2-Dichlorobenzene	146	14.283	14.283	(1.206)	270268	5.00000	4.6
	41 1,2,4-Trichlorobenzene	180	15.846	15.846	(1.338)	30279	5.00000	3.2
	42 Hexachlorobutadiene	225	16.271	16.271	(1.374)	58823	5.00000	4.4

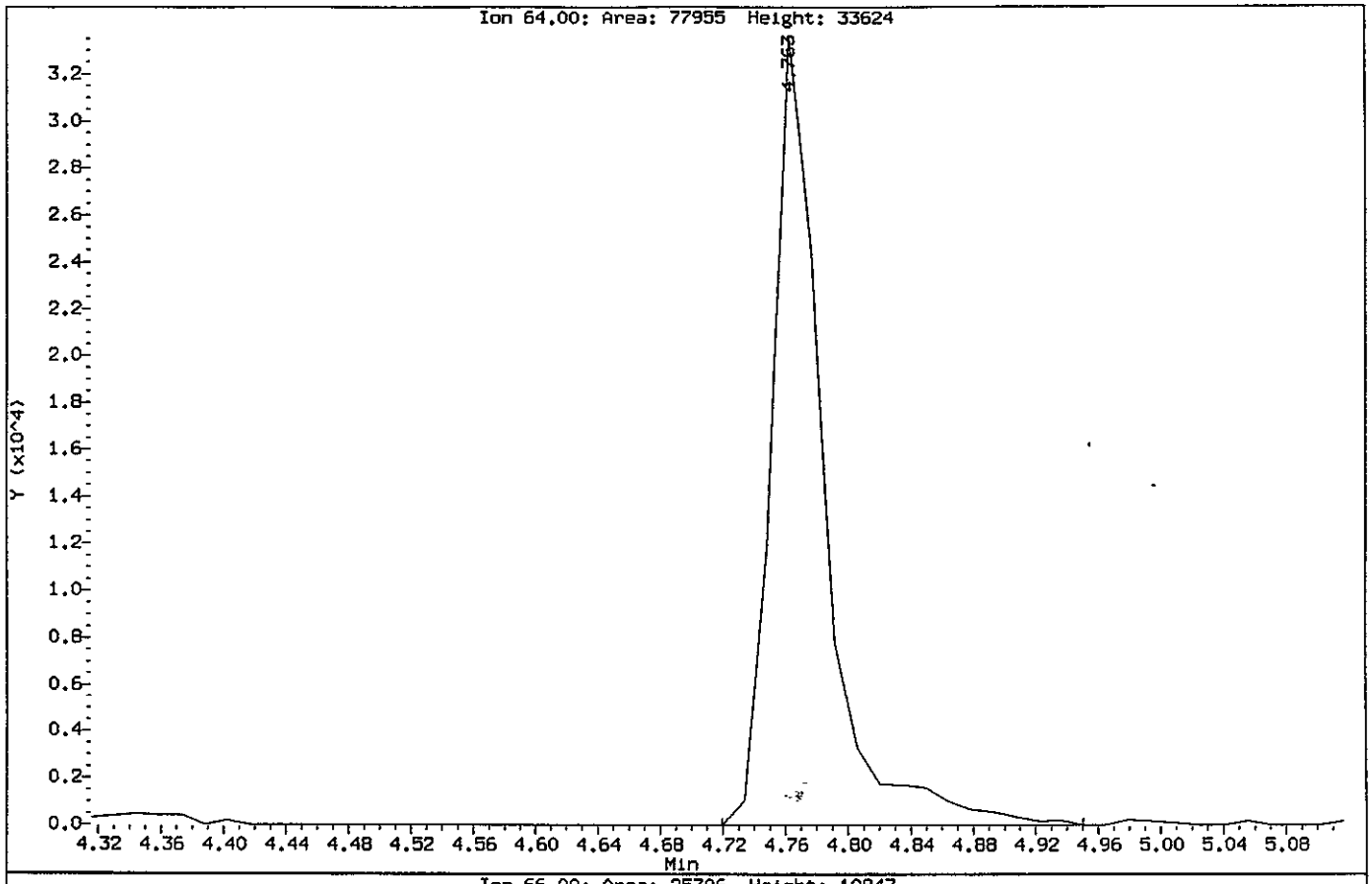
QC Flag Legend

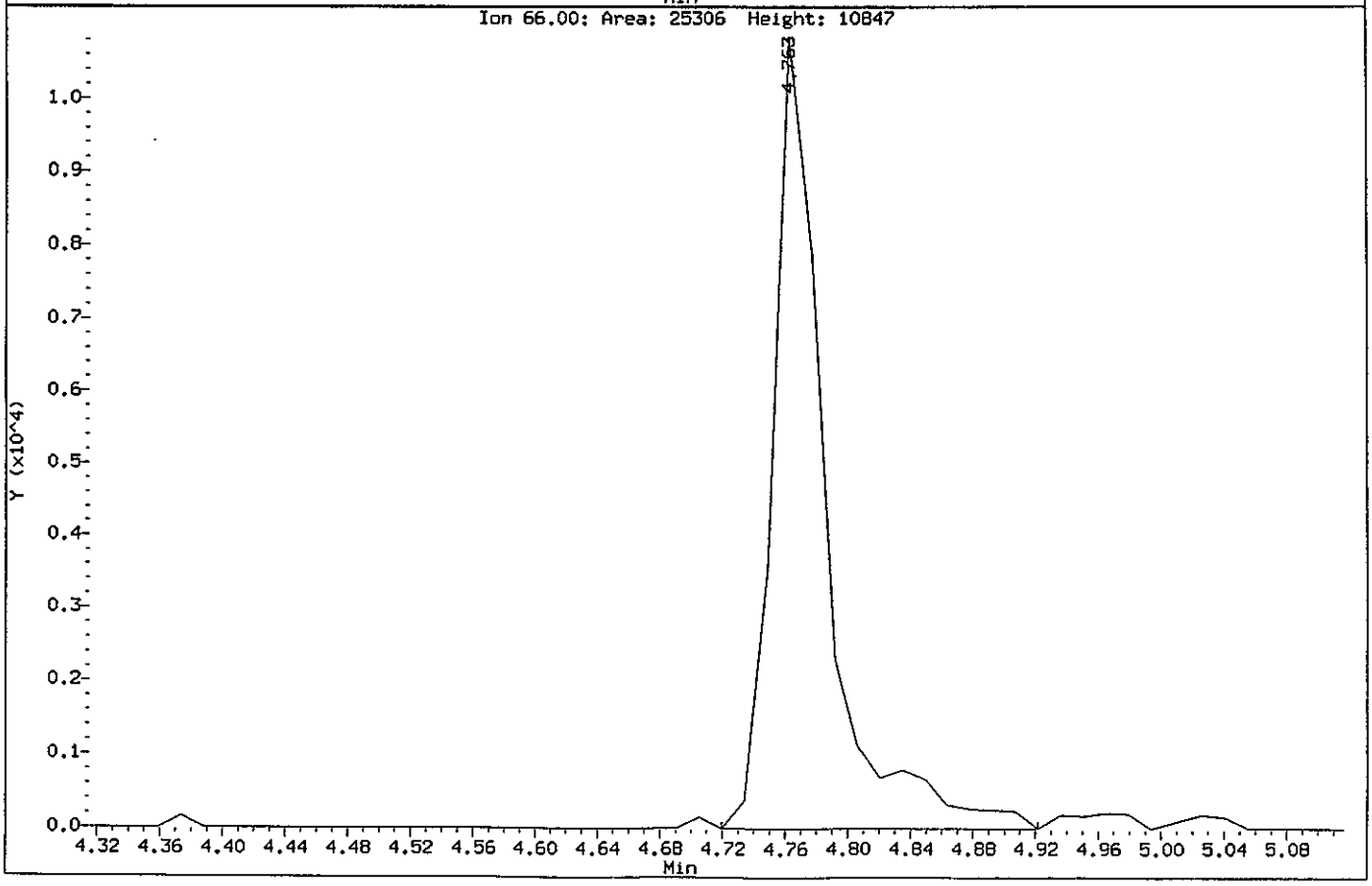
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

MWW 12/26/00

Data File: /chem/W.i/Wsvr.p/wceto14.b/ce005.d
Injection Date: 18-DEC-2000 11:14
Instrument: W.i
Client Sample ID: ASTD005

Compound: Chloroethane
CAS Number: 75-00-3

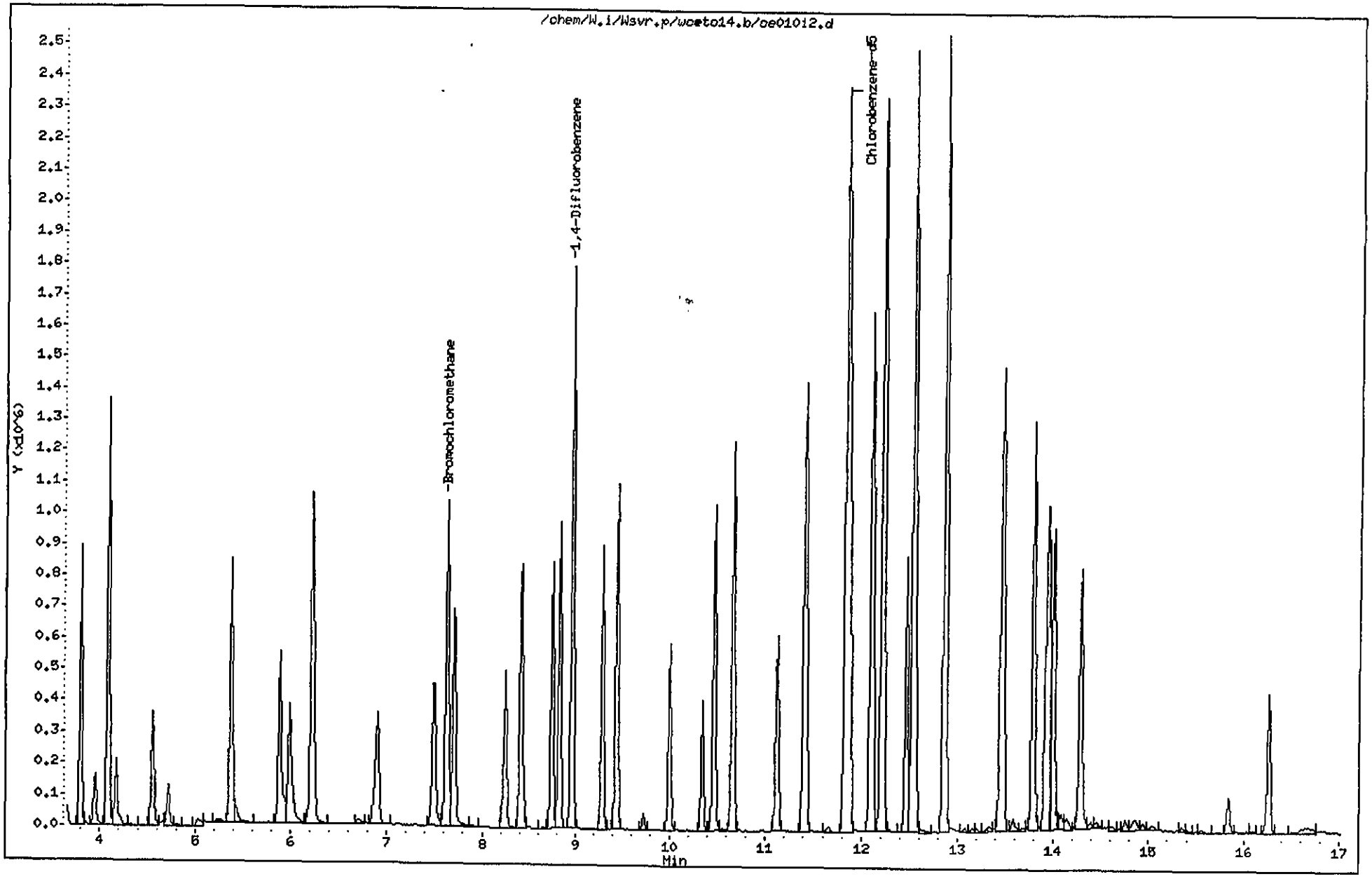




Data File: /chem/W.i/Wsvr.p/woeto14.b/ce010i2.d
Date : 18-DEC-2000 13:44
Client ID: ASTD010
Sample Info: ASTD010;ASTD010
Purge Volume: 200.0
Column phase: DB-1

Instrument: W.i

Operator: GMM
Column diameter: 0.35



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AIR TOXICS QUANTITATION REPORT

Data file : /chem/W.i/Wsvr.p/wceto14.b/ce010i2.d
Lab Smp Id: ASTD010 Client Smp ID: ASTD010
Inj Date : 18-DEC-2000 13:44
Operator : GMM Inst ID: W.i
Smp Info : ASTD010;ASTD010
Misc Info :
Comment :
Method : /chem/W.i/Wsvr.p/wceto14.b/ato14.m
Meth Date : 26-Dec-2000 14:40 mim Quant Type: ISTD
Cal Date : 18-DEC-2000 13:44 Cal File: ce010i2.d
Als bottle: 1 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50
Processing Host: chemsvr4

Concentration Formula: Amt * DF * X* Uf/Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
X	200.00000	method volume factor
Uf	1.00000	ng unit correction factor
Vo	200.00000	Sample Volume purged (mL)

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	AMOUNTS ON-COL (ppbv)
1	Dichlorodifluoromethane	85	3.797	3.797	(0.498)	783179	10.0000	9.9
2	Chloromethane	50	3.955	3.955	(0.519)	206070	10.0000	10
3	Dichlorotetrafluoroethane	85	4.085	4.085	(0.536)	809859	10.0000	10
4	Vinyl Chloride	62	4.171	4.171	(0.547)	224852	10.0000	10
5	Bromomethane	94	4.546	4.546	(0.597)	272737	10.0000	9.9
6	Chloroethane	64	4.719	4.719	(0.619)	133364	10.0000	10(M)
7	Trichlorofluoromethane	101	5.375	5.375	(0.705)	745546	10.0000	9.9(M)
8	1,1-Dichloroethene	96	5.891	5.891	(0.773)	265771	10.0000	9.9
9	Methylene Chloride	49	5.982	5.982	(0.785)	304170	10.0000	9.3
10	Freon TF	101	6.210	6.210	(0.815)	611228	10.0000	10
11	1,1-Dichloroethane	63	6.892	6.892	(0.904)	501522	10.0000	10
12	cis-1,2-Dichloroethene	61	7.484	7.484	(0.982)	369594	10.0000	9.9
* 13	Bromochloromethane	128	7.621	7.621	(1.000)	335524	10.0000	
14	Chloroform	83	7.697	7.697	(1.010)	654964	10.0000	9.9

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	AMOUNTS ON-COL (ppbv)
	15 1,2-Dichloroethane	62	8.243	8.243	(1.082)	431485	10.0000	9.7
	16 1,1,1-Trichloroethane	97	8.425	8.425	(1.106)	604178	10.0000	9.6
	17 Benzene	78	8.744	8.744	(0.976)	795923	10.0000	9.7
	18 Carbon Tetrachloride	117	8.835	8.835	(0.986)	616952	10.0000	10
*	19 1,4-Difluorobenzene	114	8.956	8.956	(1.000)	1443226	10.0000	
	20 1,2-Dichloropropane	63	9.290	9.290	(1.037)	302529	10.0000	9.8
	21 Trichloroethene	95	9.442	9.442	(1.054)	394714	10.0000	9.9
	22 cis-1,3-Dichloropropene	75	10.003	10.003	(1.117)	371649	10.0000	10
	23 trans-1,3-Dichloropropene	75	10.337	10.337	(1.154)	240262	10.0000	9.2
	24 1,1,2-Trichloroethane	83	10.474	10.474	(1.169)	327884	10.0000	10
	25 Toluene	92	10.656	10.656	(0.900)	608775	10.0000	10
	26 1,2-Dibromoethane	107	11.126	11.126	(0.940)	506187	10.0000	10
	27 Tetrachloroethene	166	11.415	11.415	(0.964)	465030	10.0000	9.9
*	28 Chlorobenzene-d5	117	11.840	11.840	(1.000)	1506068	10.0000	
	29 Chlorobenzene	112	11.870	11.870	(1.003)	785207	10.0000	9.8
	30 Ethylbenzene	91	12.098	12.098	(1.022)	1412489	10.0000	10
	31 Xylene (m,p)	106	12.219	12.219	(1.032)	1006652	20.0000	20
	32 Styrene	104	12.462	12.462	(1.053)	503486	10.0000	10
M	33 Xylene (total)	106				1494475	10.0000	30
	34 1,1,2,2-Tetrachloroethane	83	12.523	12.523	(1.058)	772225	10.0000	9.8
	35 Xylene (o)	106	12.538	12.538	(1.059)	487823	10.0000	10
	36 1,3,5-Trimethylbenzene	105	13.463	13.463	(1.137)	1006840	10.0000	10
	37 1,2,4-Trimethylbenzene	105	13.782	13.782	(1.164)	909158	10.0000	10
	38 1,3-Dichlorobenzene	146	13.934	13.934	(1.177)	598947	10.0000	9.3
	39 1,4-Dichlorobenzene	146	13.995	13.995	(1.182)	614179	10.0000	9.4
	40 1,2-Dichlorobenzene	146	14.283	14.283	(1.206)	481180	10.0000	9.3
	41 1,2,4-Trichlorobenzene	180	15.846	15.846	(1.338)	51665	10.0000	7.3
	42 Hexachlorobutadiene	225	16.271	16.271	(1.374)	101567	10.0000	8.2

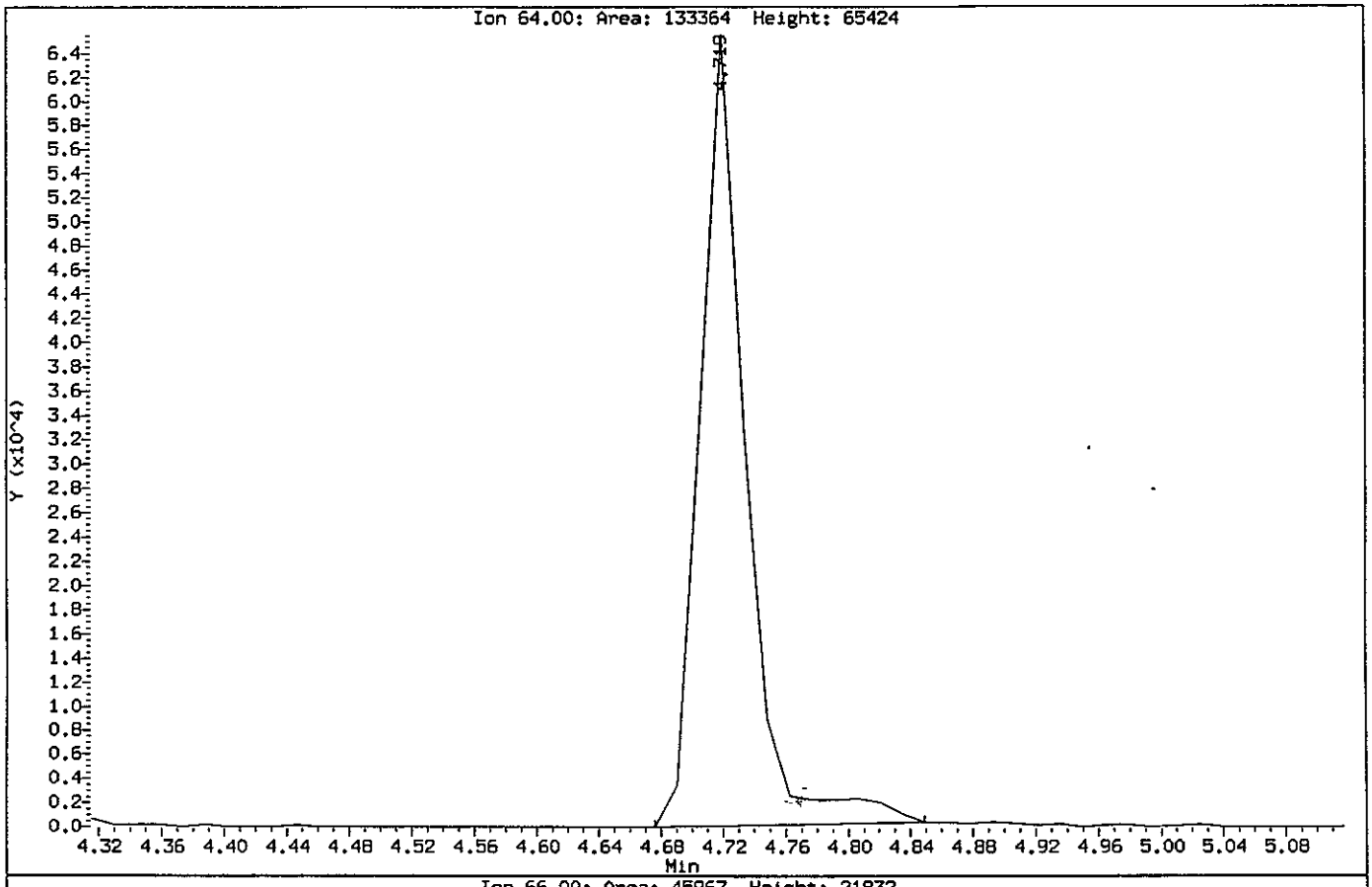
QC Flag Legend

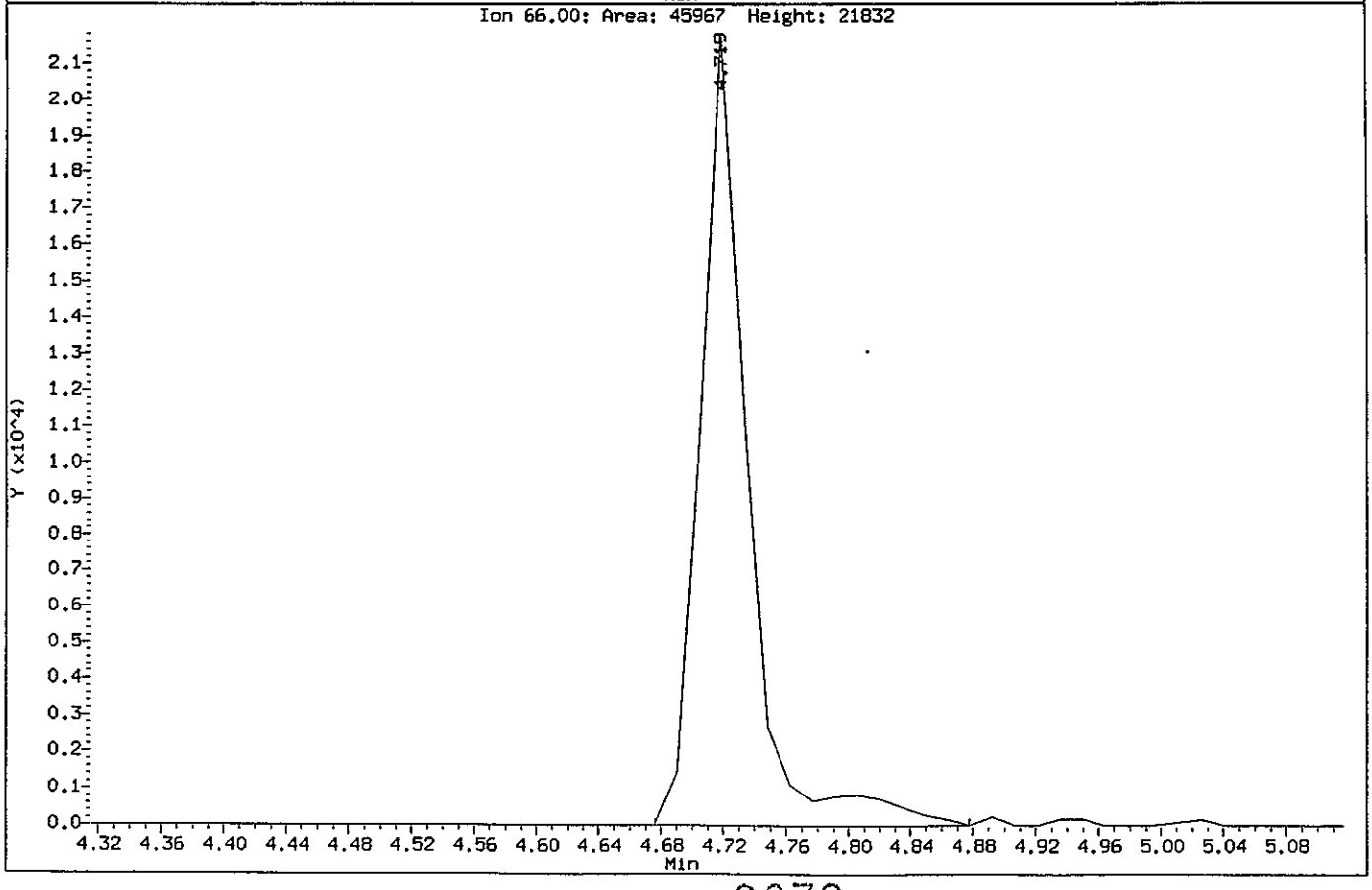
M - Compound response manually integrated.

12/26/00

Data File: /chem/W.i/Wsvr.p/wceto14.b/ce0101i2.d
Injection Date: 18-DEC-2000 13:44
Instrument: W.i
Client Sample ID: ASTD010

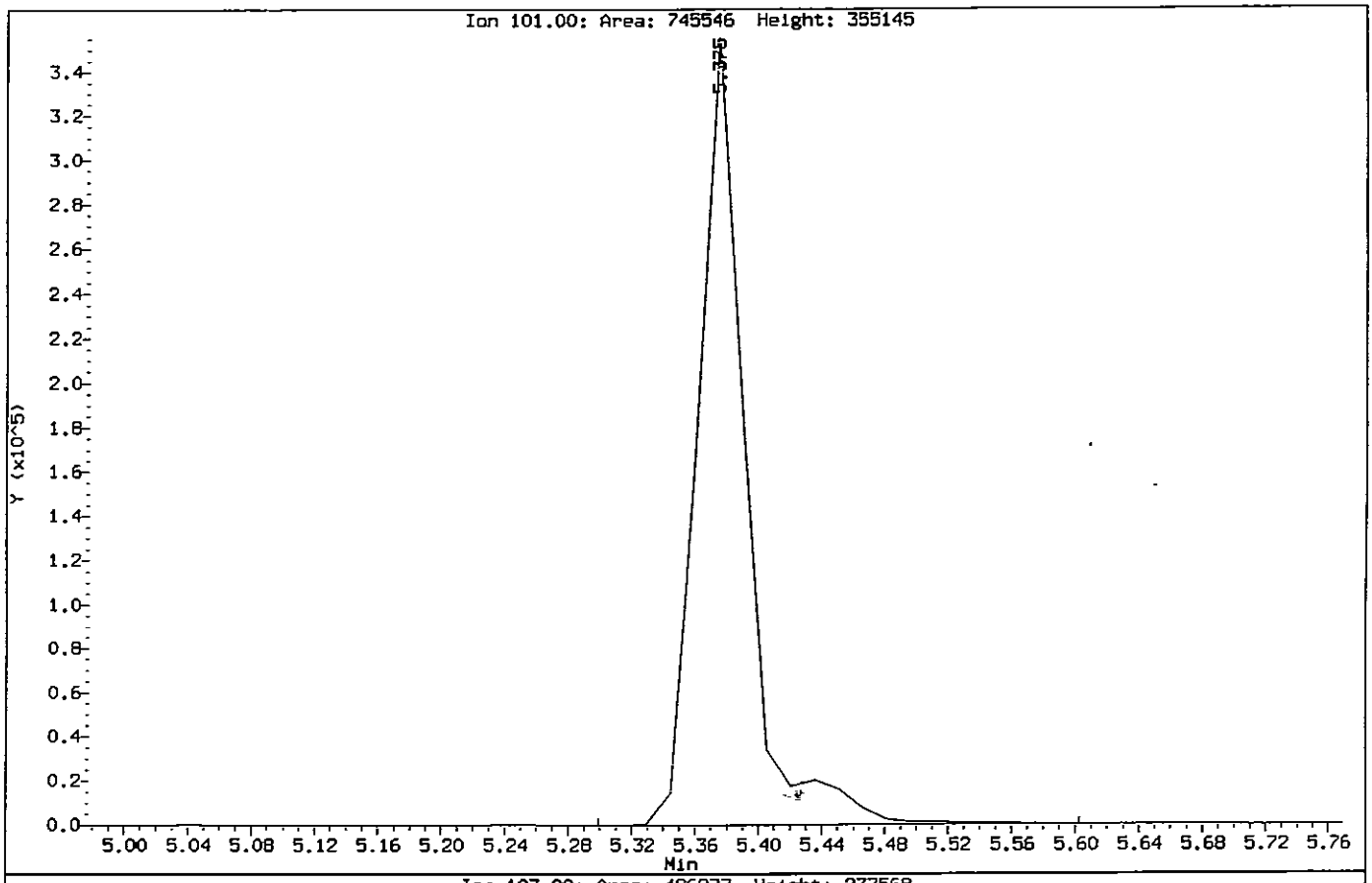
Compound: Chloroethane
CAS Number: 75-00-3

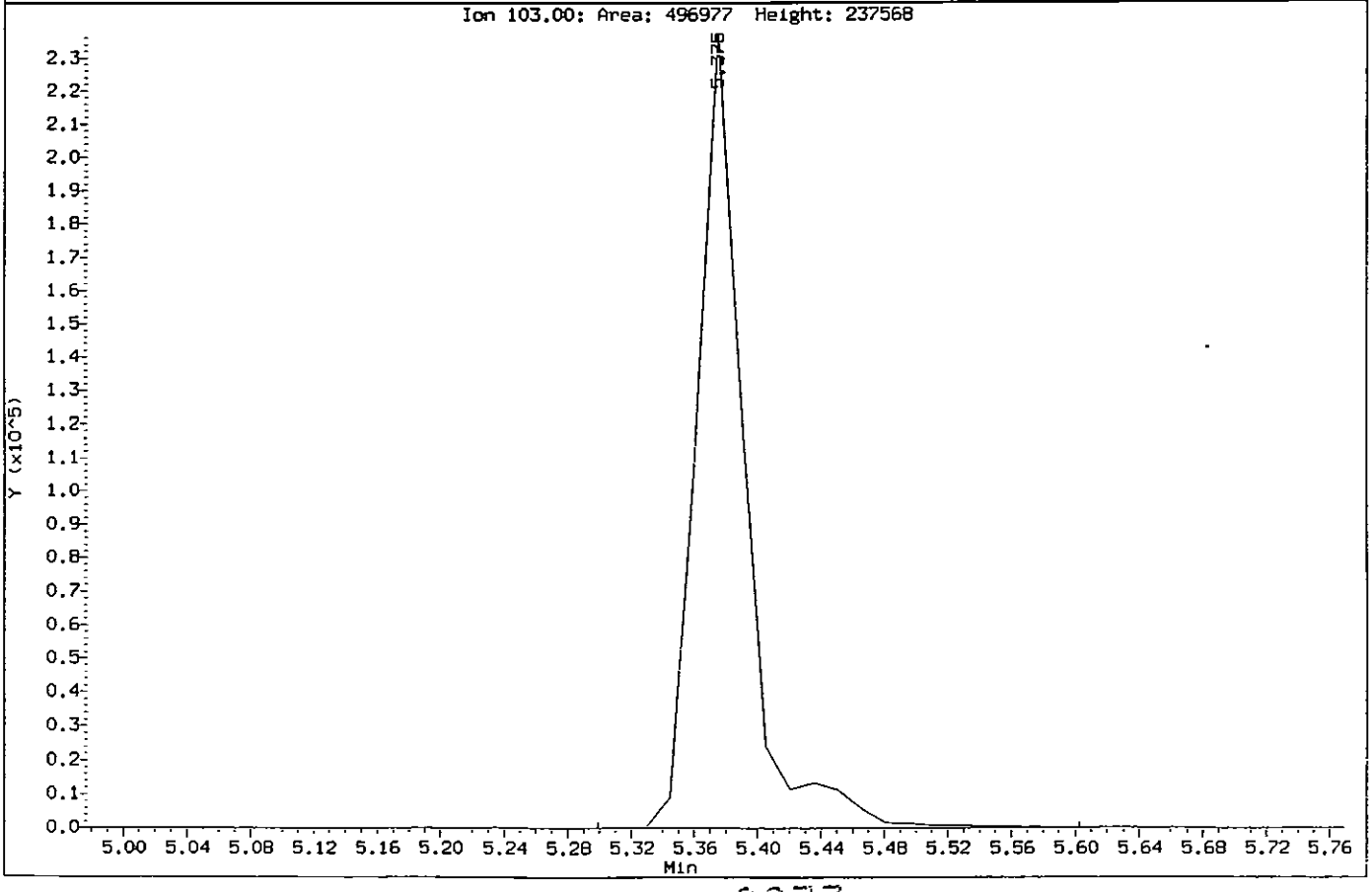




Data File: /chem/W.i/Wsvr.p/wceto14.b/ce01012.d
Injection Date: 18-DEC-2000 13:44
Instrument: W.i
Client Sample ID: ASTD010

Compound: Trichlorofluoromethane
CAS Number: 75-69-4

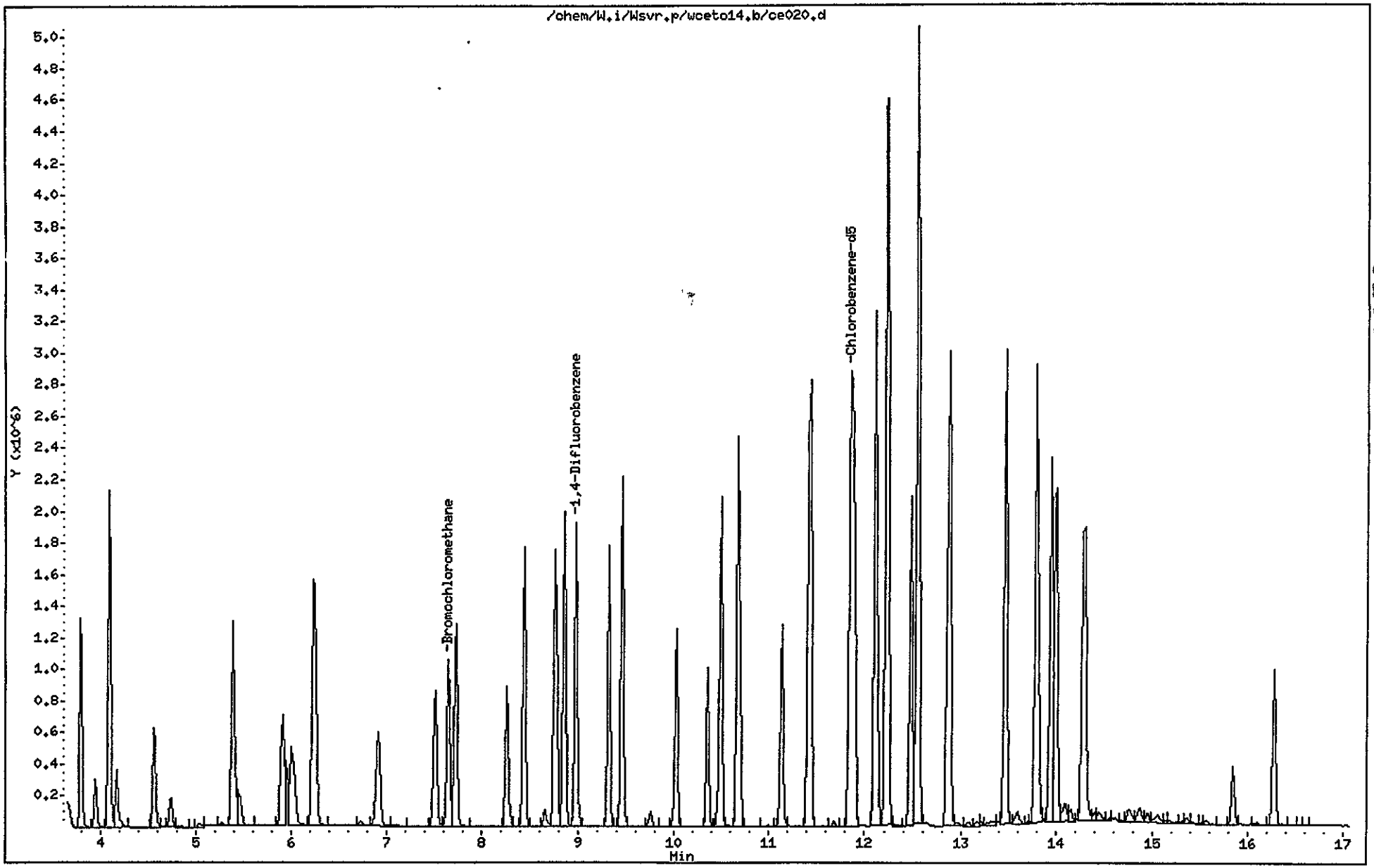




Data File: /chem/W.i/Wsvr.p/wceto14.b/ce020.d
Date : 18-DEC-2000 10:04
Client ID: ASTD020
Sample Info: ASTD020;ASTD020
Purge Volume: 200.0
Column phase: DB-1

Instrument: W.i

Operator: GMM
Column diameter: 0.35



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STL Burlington

AIR TOXICS QUANTITATION REPORT

Data file : /chem/W.i/Wsvr.p/wceto14.b/ce020.d
Lab Smp Id: ASTD020 Client Smp ID: ASTD020
Inj Date : 18-DEC-2000 10:04
Operator : GMM Inst ID: W.i
Smp Info : ASTD020;ASTD020
Misc Info :
Comment :
Method : /chem/W.i/Wsvr.p/wceto14.b/ato14.m
Meth Date : 26-Dec-2000 14:39 mim Quant Type: ISTD
Cal Date : 18-DEC-2000 10:04 Cal File: ce020.d
Als bottle: 4 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50
Processing Host: chemsvr4

Concentration Formula: Amt * DF * X* Uf/Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
X	200.00000	method volume factor
Uf	1.00000	ng unit correction factor
Vo	200.00000	Sample Volume purged (mL)

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	ON-COL (ppbv)
1	Dichlorodifluoromethane	85	3.787	3.797	(0.496)	1389222	20.0000	20
2	Chloromethane	50	3.945	3.955	(0.517)	349656	20.0000	20
3	Dichlorotetrafluoroethane	85	4.090	4.085	(0.536)	1355610	20.0000	20
4	Vinyl Chloride	62	4.176	4.171	(0.547)	390945	20.0000	20
5	Bromomethane	94	4.551	4.546	(0.596)	478742	20.0000	20
6	Chloroethane	64	4.738	4.719	(0.621)	226284	20.0000	20(M)
7	Trichlorofluoromethane	101	5.390	5.375	(0.706)	1364964	20.0000	20(M)
8	1,1-Dichloroethene	96	5.906	5.891	(0.773)	468570	20.0000	20(Q)
9	Methylene Chloride	49	5.997	5.982	(0.785)	516473	20.0000	20
10	Freon TF	101	6.225	6.210	(0.815)	1079421	20.0000	20
11	1,1-Dichloroethane	63	6.908	6.892	(0.905)	863067	20.0000	20
12	cis-1,2-Dichloroethene	61	7.515	7.484	(0.984)	711115	20.0000	20
* 13	Bromochloromethane	128	7.636	7.621	(1.000)	334158	10.0000	(Q)
14	Chloroform	83	7.727	7.697	(1.012)	1212958	20.0000	20

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	AMOUNTS ON-COL (ppbv)
15	1,2-Dichloroethane	62	8.258	8.243	(1.081)	828558	20.0000	20
16	1,1,1-Trichloroethane	97	8.440	8.425	(1.105)	1169805	20.0000	20
17	Benzene	78	8.759	8.744	(0.976)	1616642	20.0000	20
18	Carbon Tetrachloride	117	8.850	8.835	(0.986)	1199363	20.0000	20
* 19	1,4-Difluorobenzene	114	8.972	8.956	(1.000)	1572787	10.0000	
20	1,2-Dichloropropane	63	9.305	9.290	(1.037)	609216	20.0000	20
21	Trichloroethene	95	9.457	9.442	(1.054)	783389	20.0000	20
22	cis-1,3-Dichloropropene	75	10.019	10.003	(1.117)	805179	20.0000	20
23	trans-1,3-Dichloropropene	75	10.353	10.337	(1.154)	594333	20.0000	20
24	1,1,2-Trichloroethane	83	10.489	10.474	(1.169)	647665	20.0000	20
25	Toluene	92	10.671	10.656	(0.900)	1259073	20.0000	20
26	1,2-Dibromoethane	107	11.142	11.126	(0.940)	1063489	20.0000	20
27	Tetrachloroethene	166	11.430	11.415	(0.964)	973376	20.0000	20
* 28	Chlorobenzene-d5	117	11.855	11.840	(1.000)	1742488	10.0000	
29	Chlorobenzene	112	11.885	11.870	(1.003)	1609737	20.0000	20
30	Ethylbenzene	91	12.113	12.098	(1.022)	2853102	20.0000	20
31	Xylene (m,p)	106	12.234	12.219	(1.032)	2077984	40.0000	40
32	Styrene	104	12.477	12.462	(1.052)	1256259	20.0000	20
M 33	Xylene (total)	106				3098165	20.0000	60
34	1,1,2,2-Tetrachloroethane	83	12.538	12.523	(1.058)	1598540	20.0000	20
35	Xylene (o)	106	12.553	12.538	(1.059)	1020181	20.0000	20
36	1,3,5-Trimethylbenzene	105	13.479	13.463	(1.137)	2166747	20.0000	20
37	1,2,4-Trimethylbenzene	105	13.797	13.782	(1.164)	2031303	20.0000	20
38	1,3-Dichlorobenzene	146	13.949	13.934	(1.177)	1385643	20.0000	20
39	1,4-Dichlorobenzene	146	14.010	13.995	(1.182)	1410949	20.0000	20
40	1,2-Dichlorobenzene	146	14.298	14.283	(1.206)	1148429	20.0000	20
41	1,2,4-Trichlorobenzene	180	15.846	15.846	(1.337)	153786	20.0000	20
42	Hexachlorobutadiene	225	16.271	16.271	(1.373)	225050	20.0000	20

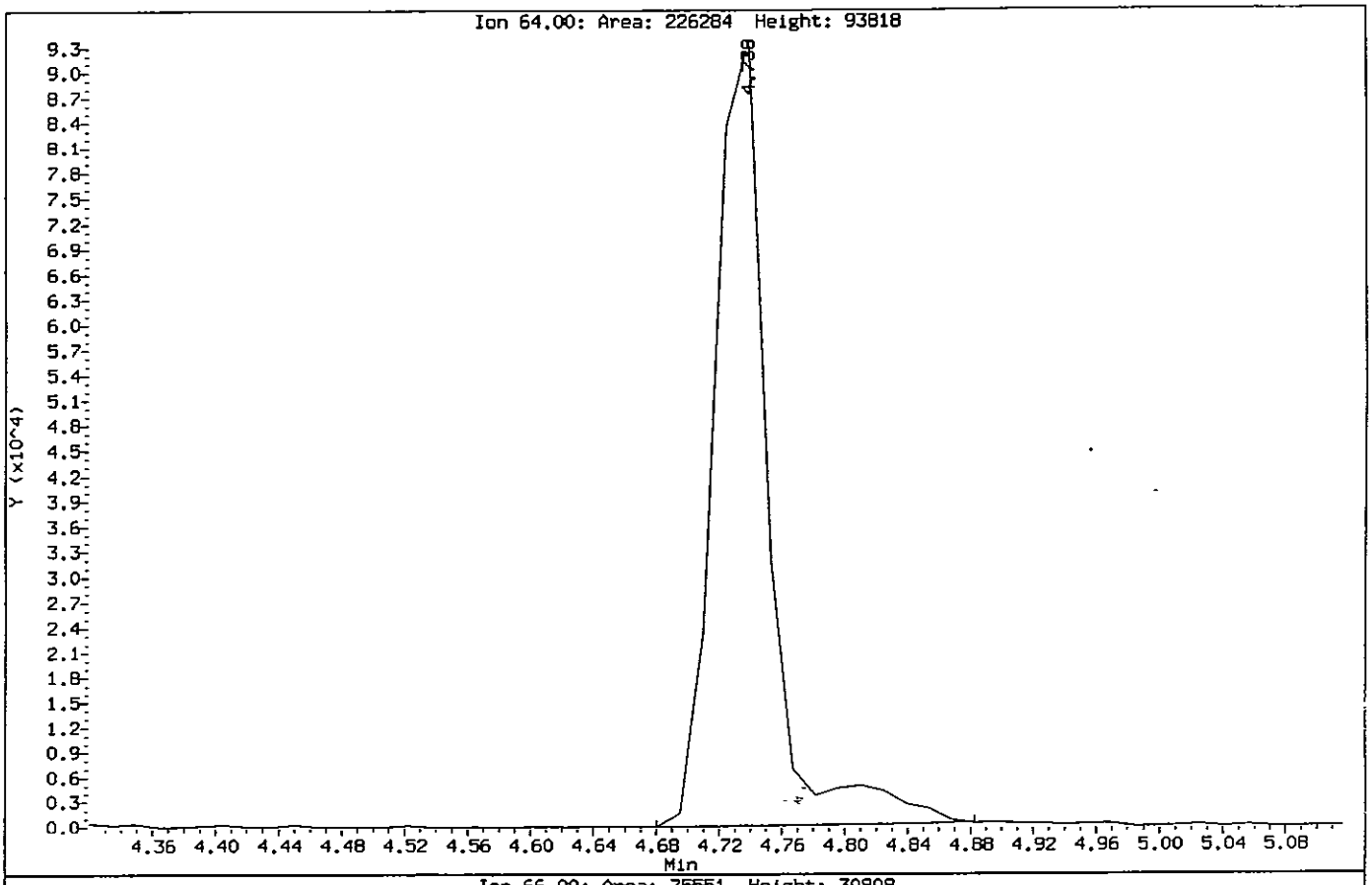
QC Flag Legend

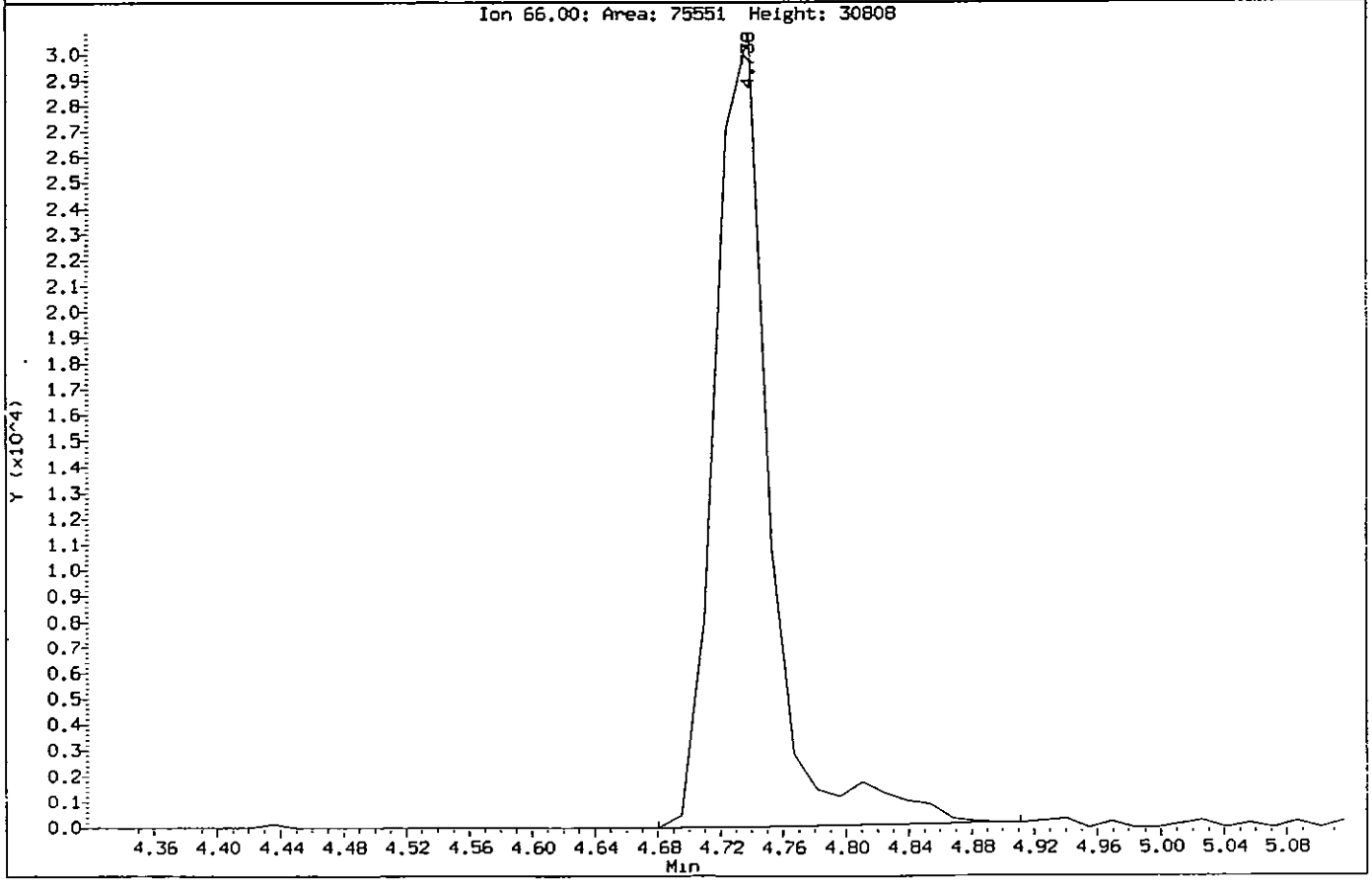
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

mvm 12/26/00

Data File: /chem/W.i/Wsvr.p/wceto14.b/ce020.d
Injection Date: 18-DEC-2000 10:04
Instrument: W.i
Client Sample ID: ASTD020

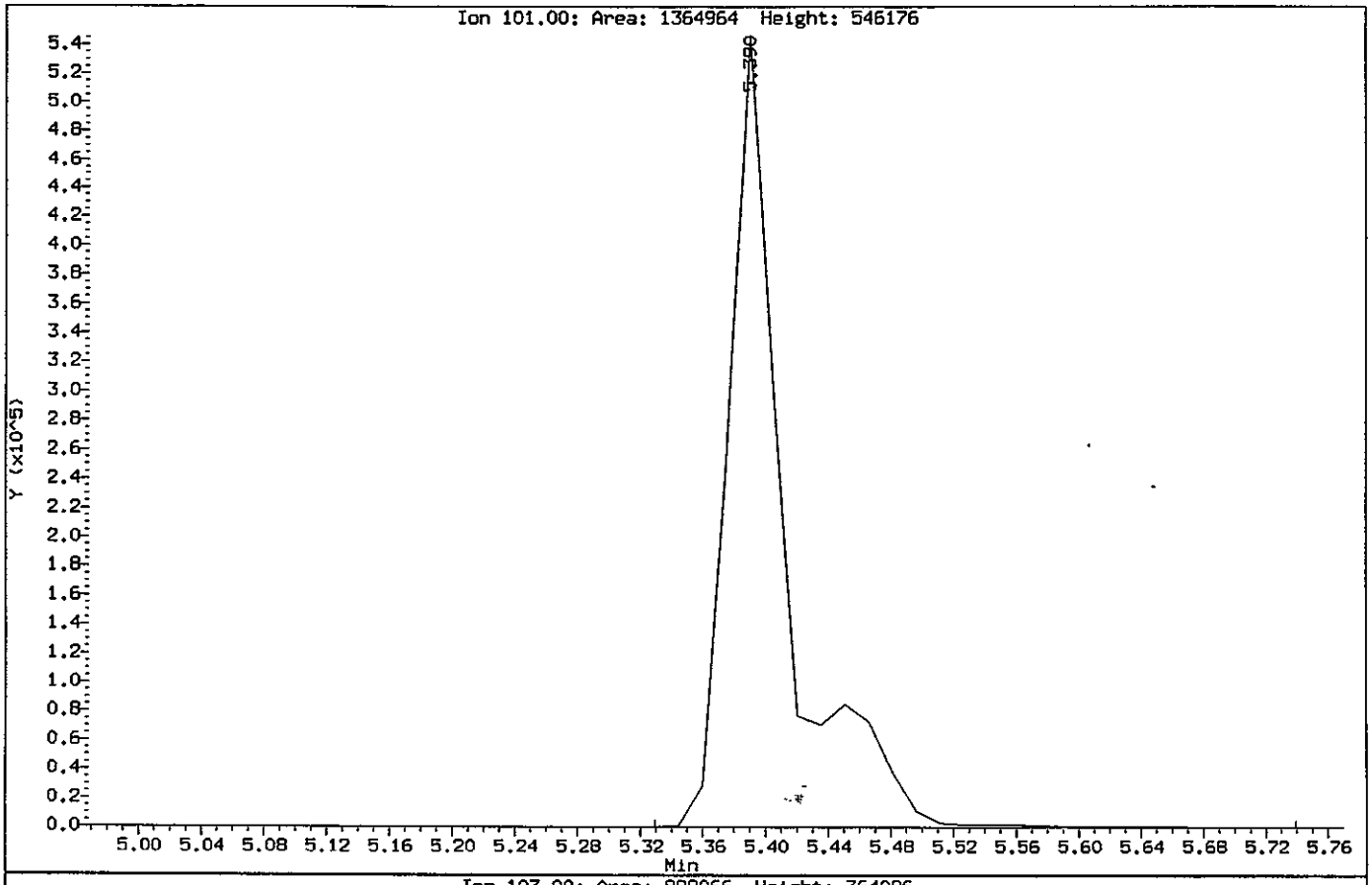
Compound: Chloroethane
CAS Number: 75-00-3

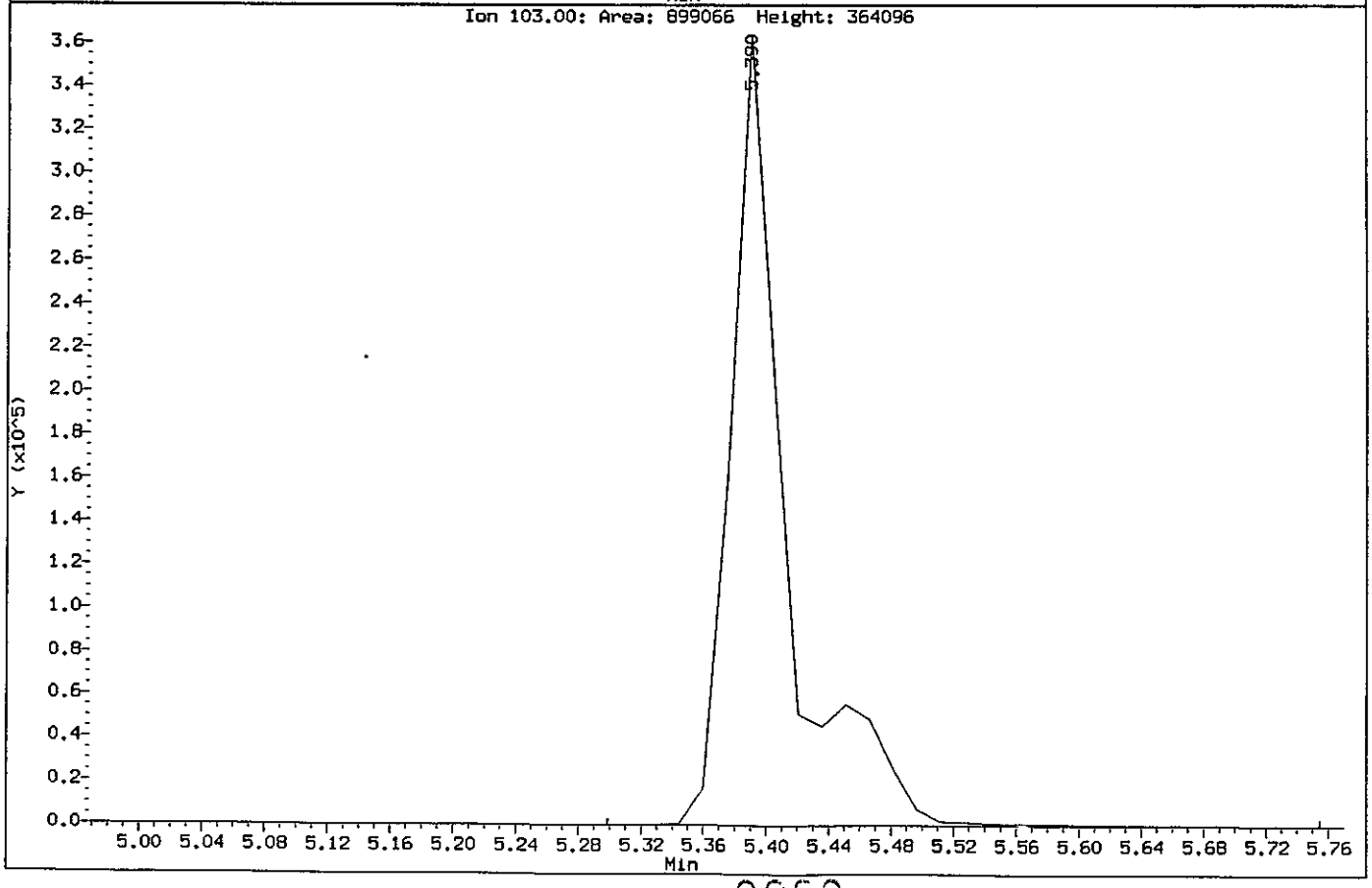




Data File: /chem/W.i/Wsvr.p/wceto14.b/ce020.d
Injection Date: 18-DEC-2000 10:04
Instrument: W.i
Client Sample ID: ASTD020

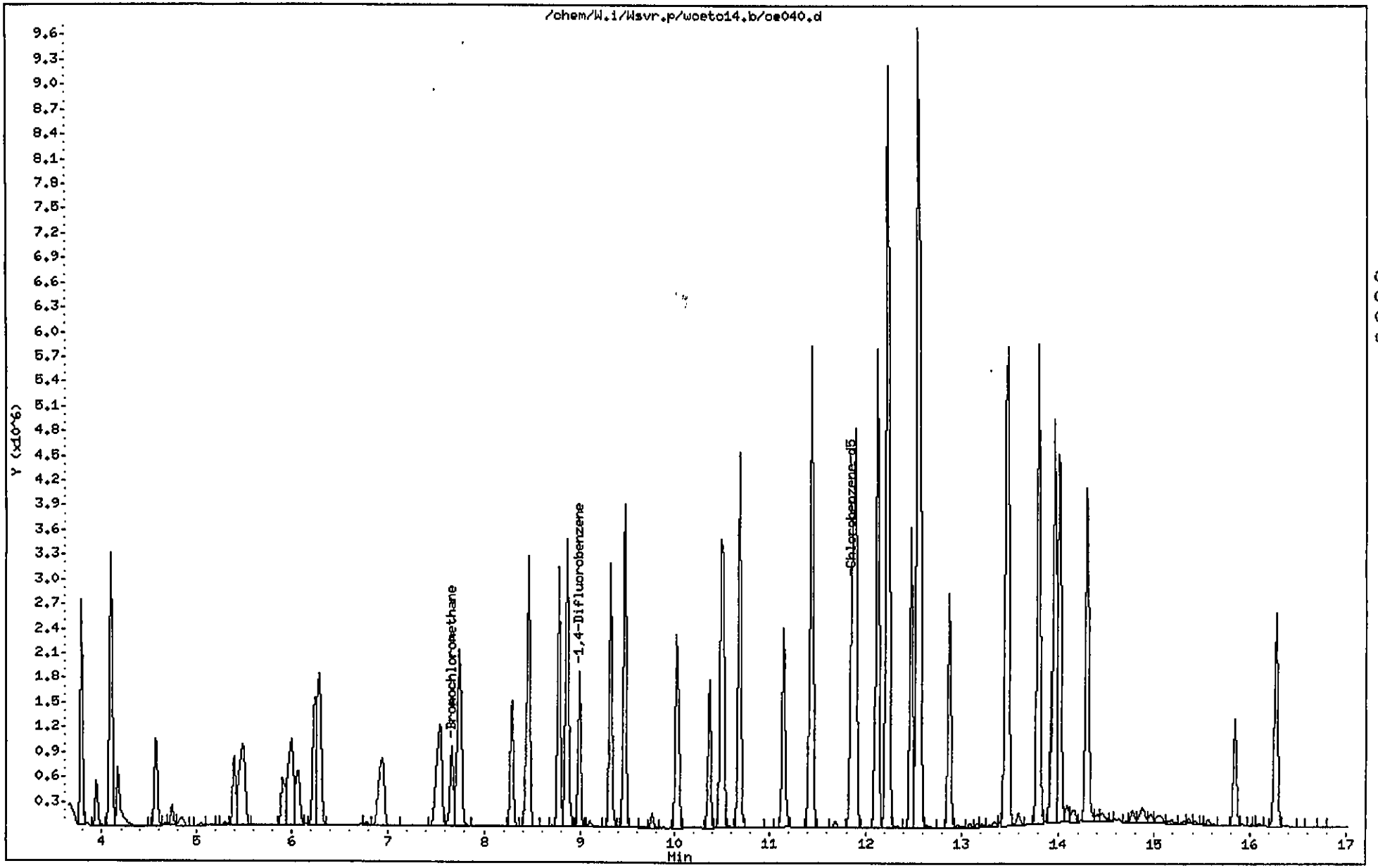
Compound: Trichlorofluoromethane
CAS Number: 75-69-4





Data File: /chem/W.i/Wsvr.p/woeto14.b/oe040.d
Date : 18-DEC-2000 10:38
Client ID: ASTD040
Sample Info: ASTD040;ASTD040
Purge Volume: 200.0
Column phase: DB-1

Instrument: W.i
Operator: GMH
Column diameter: 0.35



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STL Burlington

AIR TOXICS QUANTITATION REPORT

Data file : /chem/W.i/Wsvr.p/wceto14.b/ce040.d
Lab Smp Id: ASTD040 Client Smp ID: ASTD040
Inj Date : 18-DEC-2000 10:38
Operator : GMM Inst ID: W.i
Smp Info : ASTD040;ASTD040
Misc Info :
Comment :
Method : /chem/W.i/Wsvr.p/wceto14.b/ato14.m
Meth Date : 26-Dec-2000 14:39 mim Quant Type: ISTD
Cal Date : 18-DEC-2000 10:38 Cal File: ce040.d
Als bottle: 5 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50
Processing Host: chemsvr4

Concentration Formula: Amt * DF * X* Uf/Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
X	200.00000	method volume factor
Uf	1.00000	ng unit correction factor
Vo	200.00000	Sample Volume purged (mL)

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	AMOUNTS ON-COL (ppbv)
1	Dichlorodifluoromethane	85	3.782	3.797	(0.493)	2465306	38.0000	37
2	Chloromethane	50	3.940	3.955	(0.514)	669031	40.0000	39
3	Dichlorotetrafluoroethane	85	4.099	4.085	(0.535)	2589407	40.0000	39(M)
4	Vinyl Chloride	62	4.171	4.171	(0.544)	740044	40.0000	39
5	Bromomethane	94	4.560	4.546	(0.595)	959527	40.0000	40(AM)
6	Chloroethane	64	4.748	4.719	(0.619)	481500	40.0000	41(AM)
7	Trichlorofluoromethane	101	5.482	5.375	(0.715)	2557931	40.0000	39(M)
8	1,1-Dichloroethene	96	5.967	5.891	(0.778)	909769	40.0000	40(M)
9	Methylene Chloride	49	6.058	5.982	(0.790)	1007467	40.0000	40
10	Freon TF	101	6.286	6.210	(0.820)	2068956	40.0000	39(M)
11	1,1-Dichloroethane	63	6.938	6.892	(0.905)	1665783	40.0000	40
12	cis-1,2-Dichloroethene	61	7.530	7.484	(0.982)	1255985	40.0000	38
* 13	Bromochloromethane	128	7.667	7.621	(1.000)	330403	10.0000	
14	Chloroform	83	7.743	7.697	(1.010)	2169595	40.0000	38

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	ON-COL (ppbv)
	15 1,2-Dichloroethane	62	8.289	8.243	(1.081)	1552900	40.0000	39
	16 1,1,1-Trichloroethane	97	8.456	8.425	(1.103)	2126643	40.0000	38
	17 Benzene	78	8.775	8.744	(0.976)	2907385	40.0000	39
	18 Carbon Tetrachloride	117	8.866	8.835	(0.986)	2179159	40.0000	39
*	19 1,4-Difluorobenzene	114	8.987	8.956	(1.000)	1513848	10.0000	
	20 1,2-Dichloropropane	63	9.321	9.290	(1.037)	1094847	40.0000	39
	21 Trichloroethene	95	9.473	9.442	(1.054)	1405450	40.0000	38
	22 cis-1,3-Dichloropropene	75	10.019	10.003	(1.115)	1593876	40.0000	40(A)
	23 trans-1,3-Dichloropropene	75	10.368	10.337	(1.154)	1175811	40.0000	40(A)
	24 1,1,2-Trichloroethane	83	10.490	10.474	(1.167)	1166043	40.0000	39
	25 Toluene	92	10.687	10.656	(0.901)	2340569	40.0000	40
	26 1,2-Dibromoethane	107	11.142	11.126	(0.940)	2004367	40.0000	40
	27 Tetrachloroethene	166	11.430	11.415	(0.964)	1799337	40.0000	39
*	28 Chlorobenzene-d5	117	11.855	11.840	(1.000)	1652791	10.0000	
	29 Chlorobenzene	112	11.886	11.870	(1.003)	2941041	40.0000	39
	30 Ethylbenzene	91	12.113	12.098	(1.022)	5209340	40.0000	39
	31 Xylene (m,p)	106	12.235	12.219	(1.032)	3998091	80.0000	80(A)
	32 Styrene	104	12.478	12.462	(1.052)	2266830	40.0000	39
M	33 Xylene (total)	106				5962135	40.0000	120
	34 1,1,2,2-Tetrachloroethane	83	12.553	12.523	(1.059)	2982197	40.0000	40
	35 Xylene (o)	106	12.553	12.538	(1.059)	1964044	40.0000	40(A)
	36 1,3,5-Trimethylbenzene	105	13.479	13.463	(1.137)	4187308	40.0000	40(A)
	37 1,2,4-Trimethylbenzene	105	13.798	13.782	(1.164)	4028961	40.0000	41(A)
	38 1,3-Dichlorobenzene	146	13.950	13.934	(1.177)	2866831	40.0000	42(A)
	39 1,4-Dichlorobenzene	146	14.010	13.995	(1.182)	2864819	40.0000	41(A)
	40 1,2-Dichlorobenzene	146	14.299	14.283	(1.206)	2420280	40.0000	42(A)
	41 1,2,4-Trichlorobenzene	180	15.847	15.846	(1.337)	533290	40.0000	52(A)
	42 Hexachlorobutadiene	225	16.272	16.271	(1.373)	613645	40.0000	47(A)

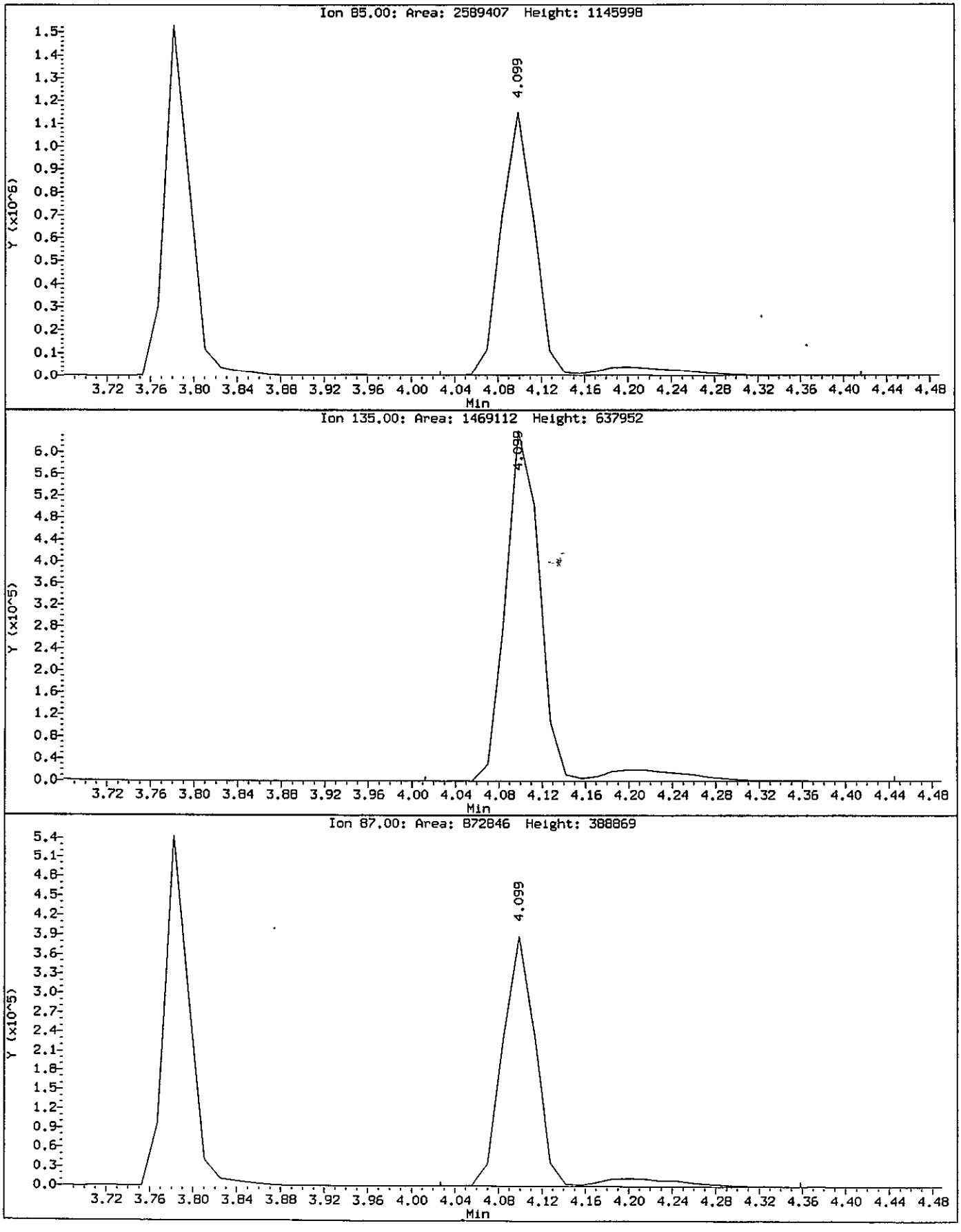
QC Flag Legend

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

mvm 12/26/00

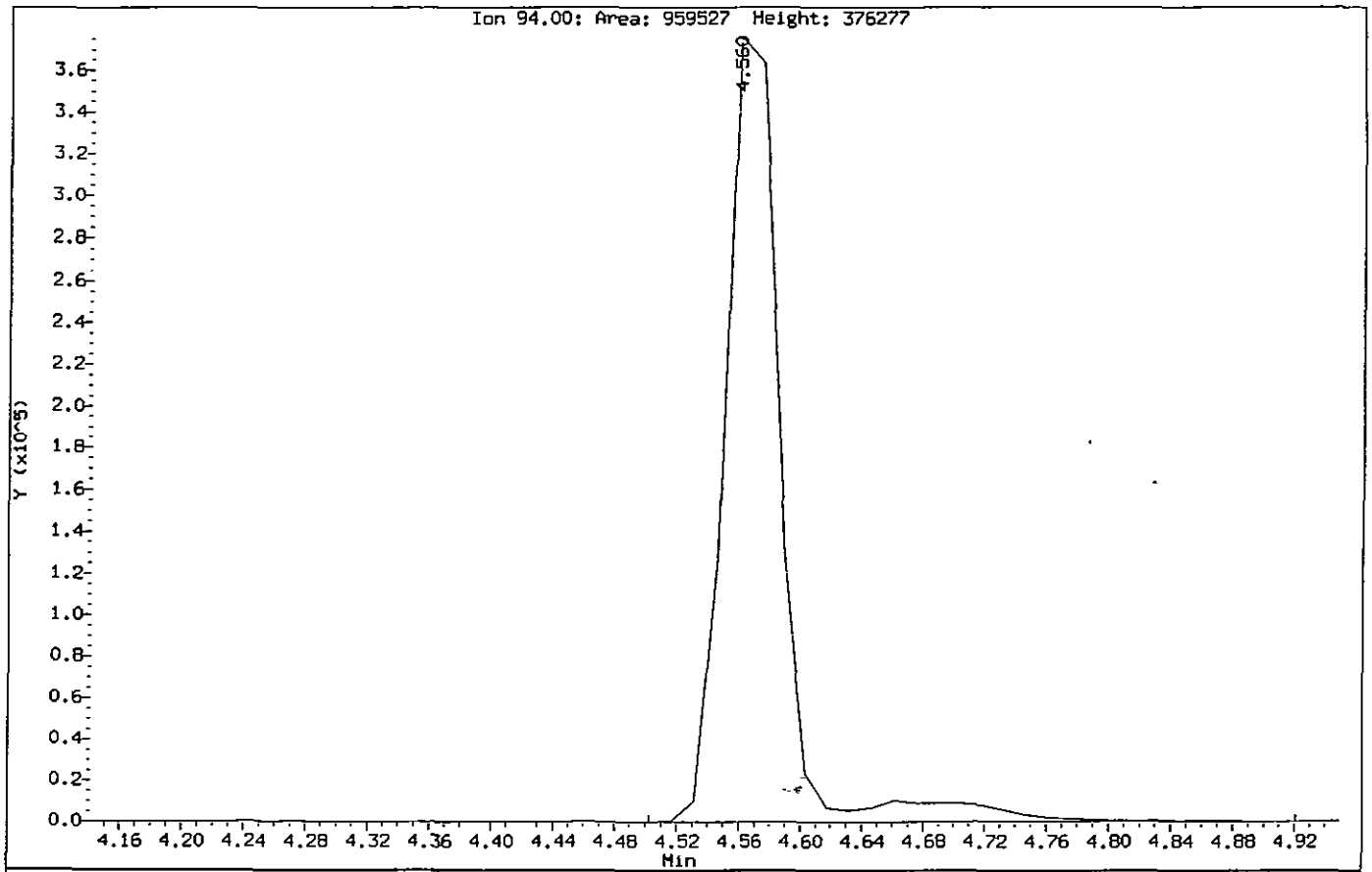
Data File: /chem/W.i/Wsvr.p/wceto14.b/ce040.d
Injection Date: 18-DEC-2000 10:38
Instrument: W.i
Client Sample ID: ASTD040

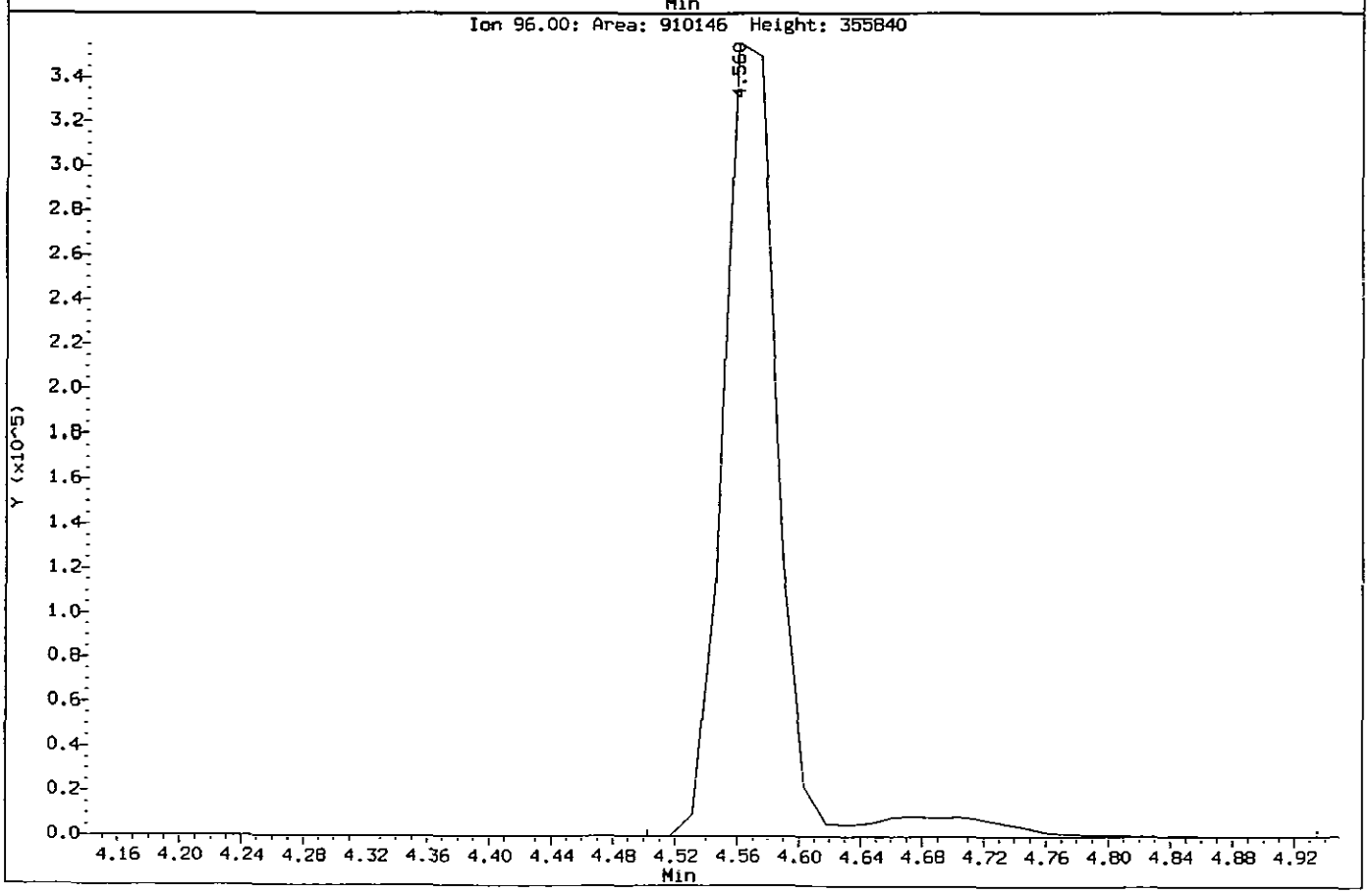
Compound: Dichlorotetrafluoroethane
CAS Number: 76-14-2



Data File: /chem/W.i/Wsvr.p/wceto14.b/ce040.d
Injection Date: 18-DEC-2000 10:38
Instrument: W.i
Client Sample ID: ASTD040

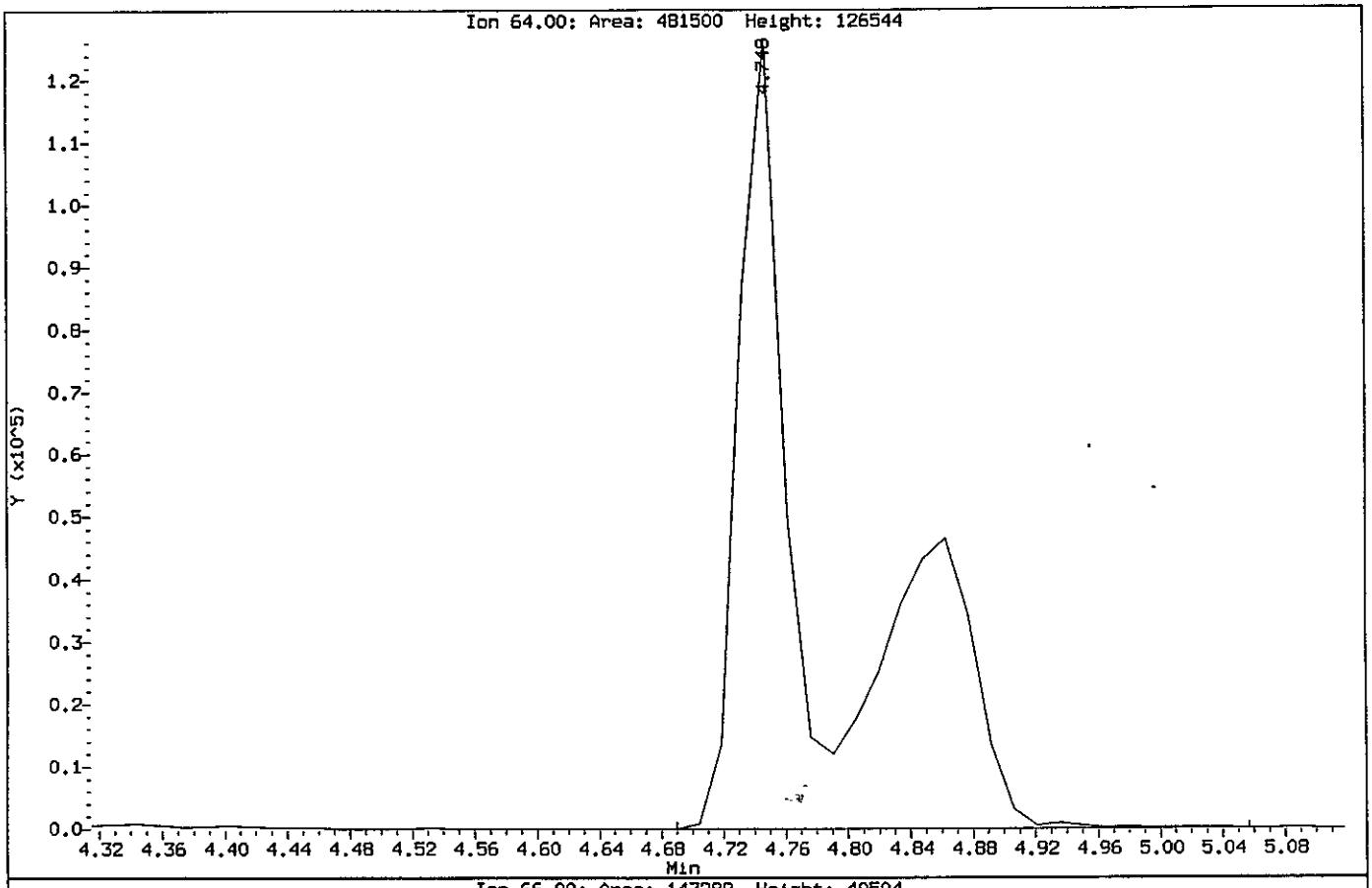
Compound: Bromomethane
CAS Number: 74-83-9

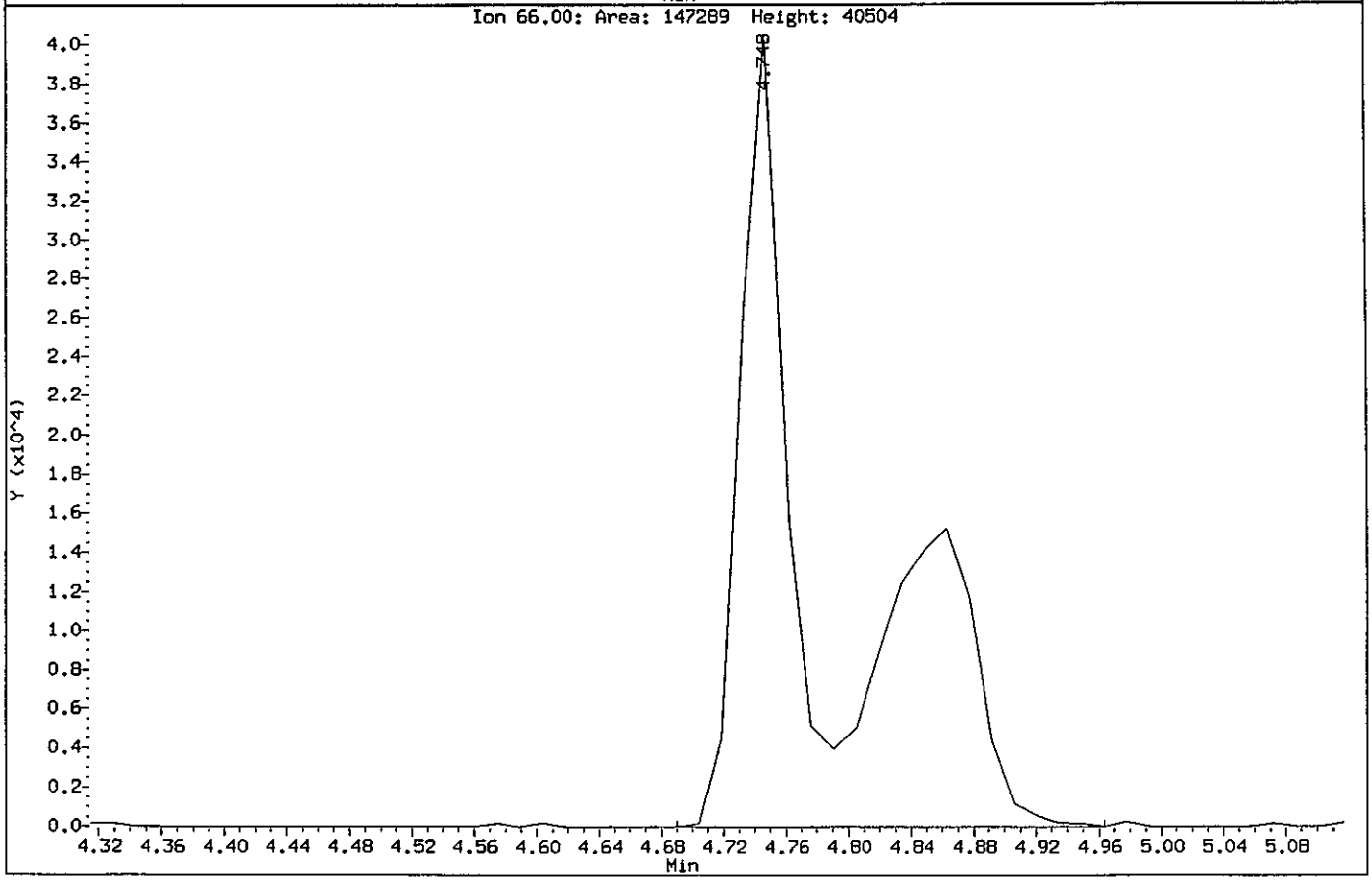




Data File: /chem/W.i/Wsvr.p/wceto14.b/ce040.d
Injection Date: 18-DEC-2000 10:38
Instrument: W.i
Client Sample ID: ASTD040

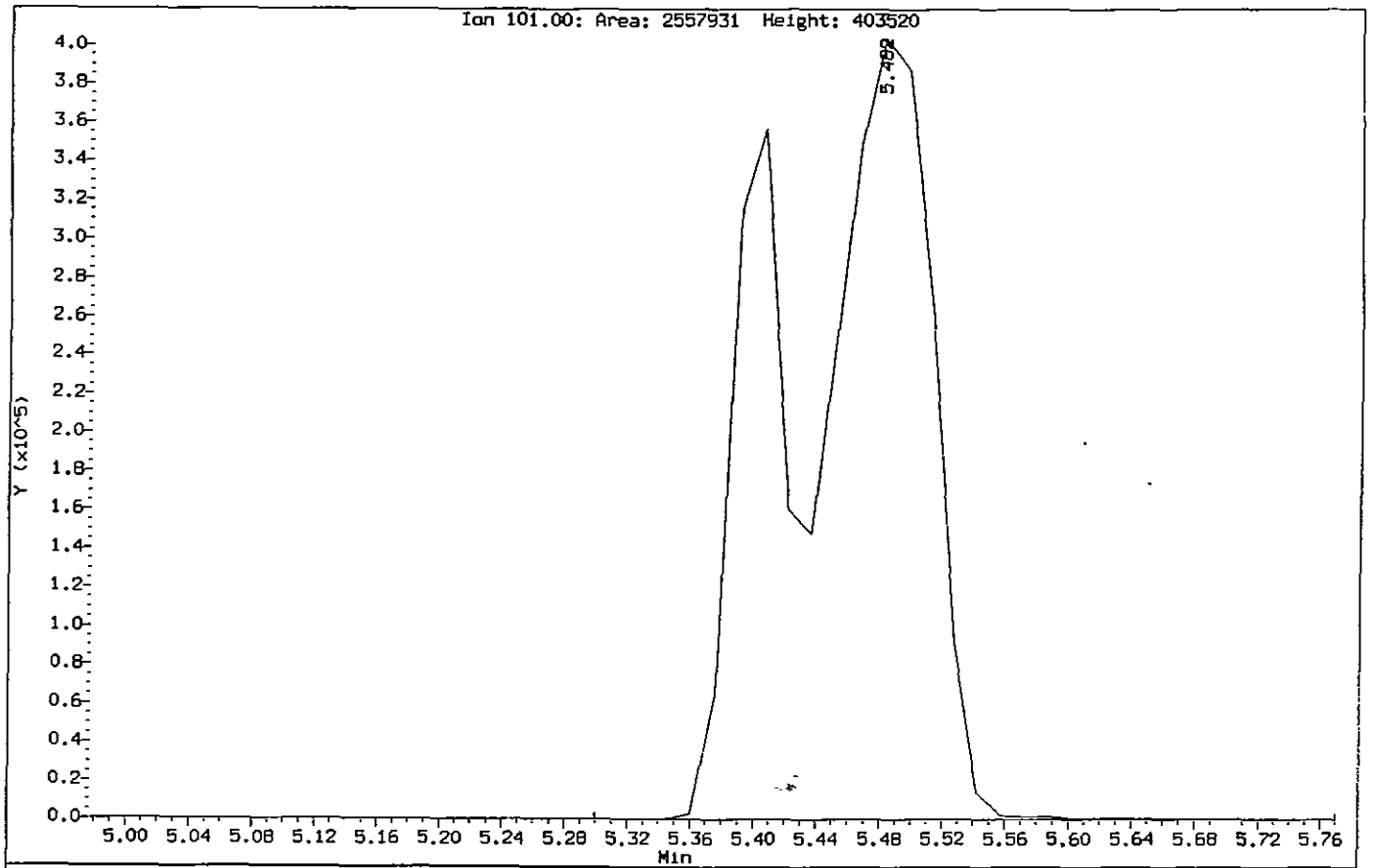
Compound: Chloroethane
CAS Number: 75-00-3

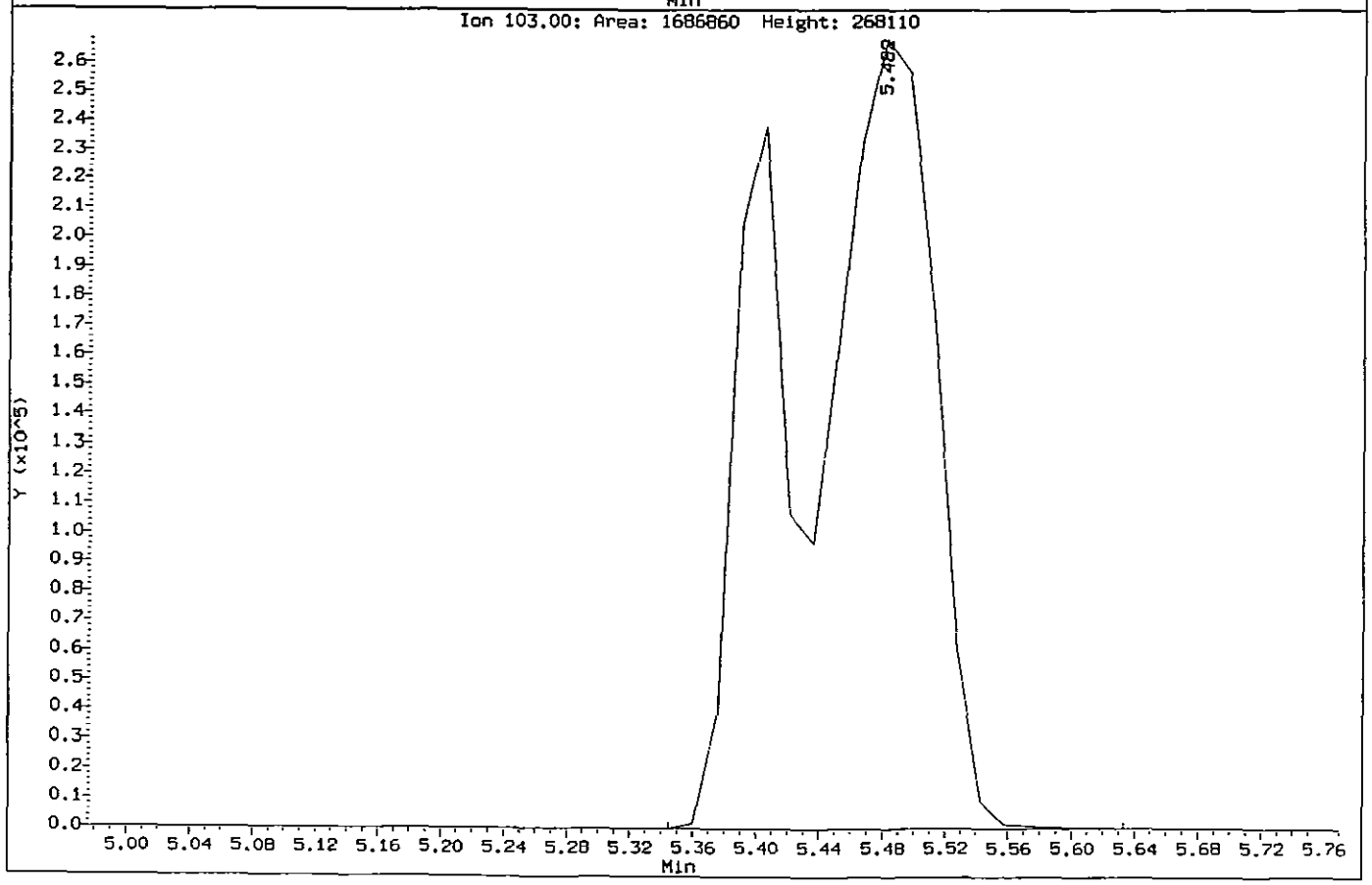




Data File: /chem/W.i/Wsvr.p/wceto14.b/ce040.d
Injection Date: 18-DEC-2000 10:38
Instrument: W.i
Client Sample ID: ASTD040

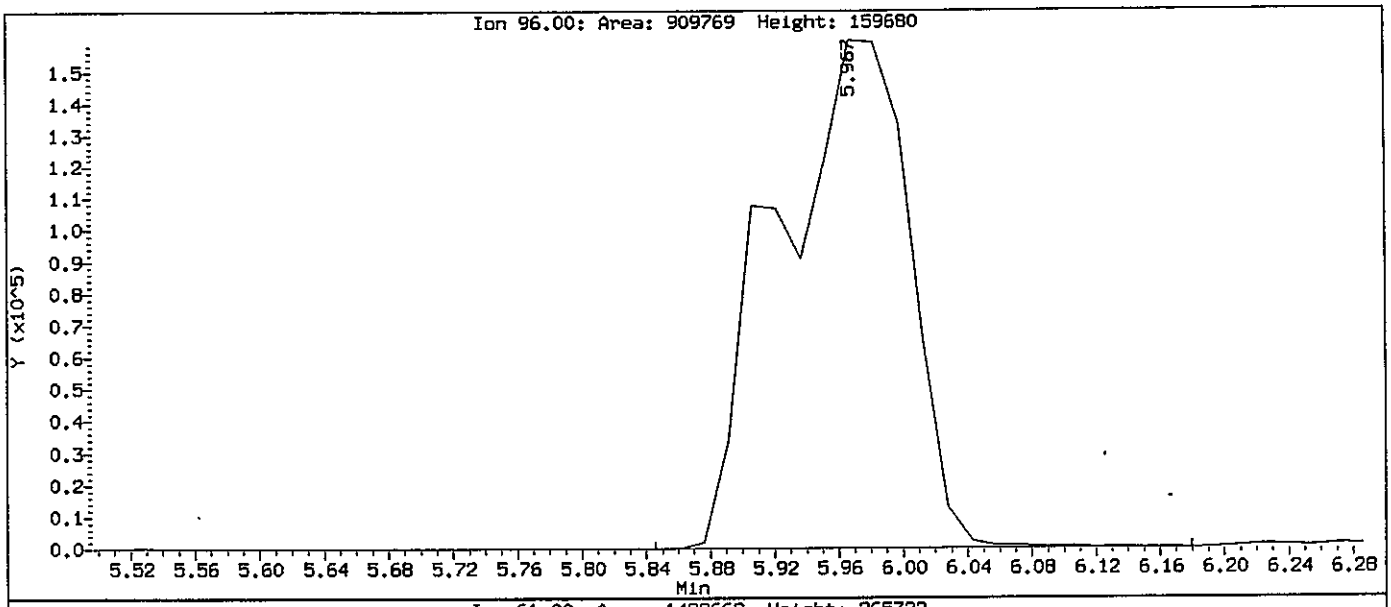
Compound: Trichlorofluoromethane
CAS Number: 75-69-4

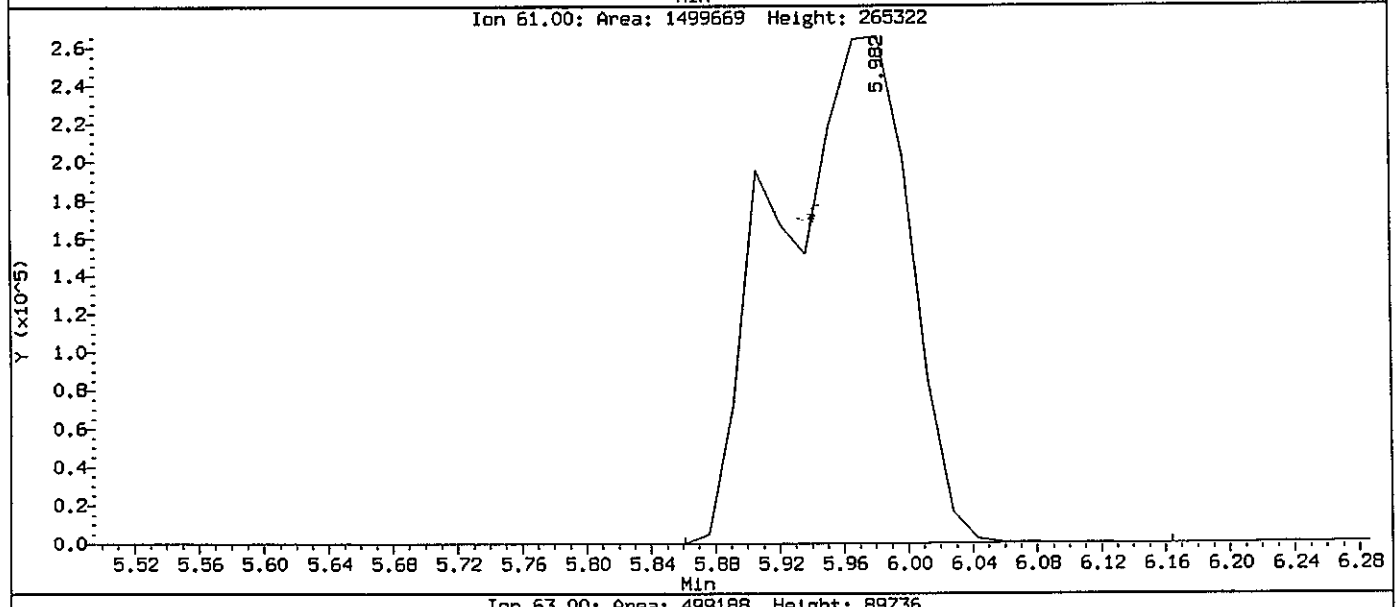


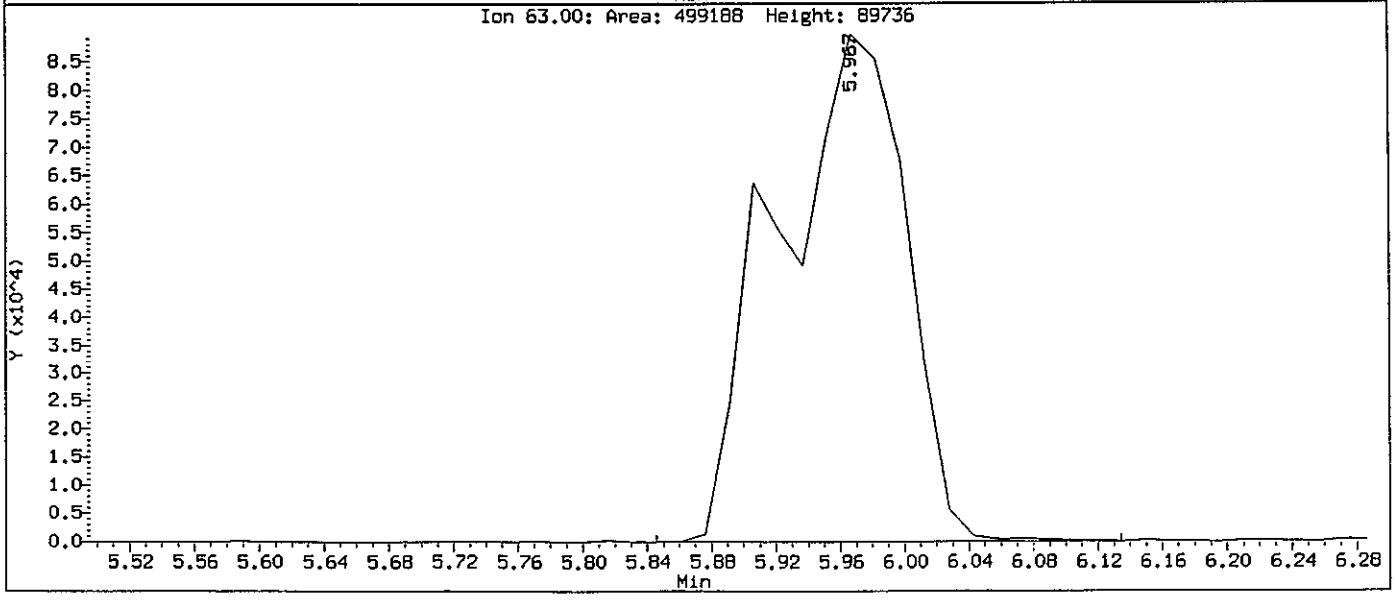


Data File: /chem/W.i/Wsvr.p/wceto14.b/ce040.d
Injection Date: 18-DEC-2000 10:38
Instrument: W.i
Client Sample ID: ASTD040

Compound: 1,1-Dichloroethene
CAS Number: 75-35-4

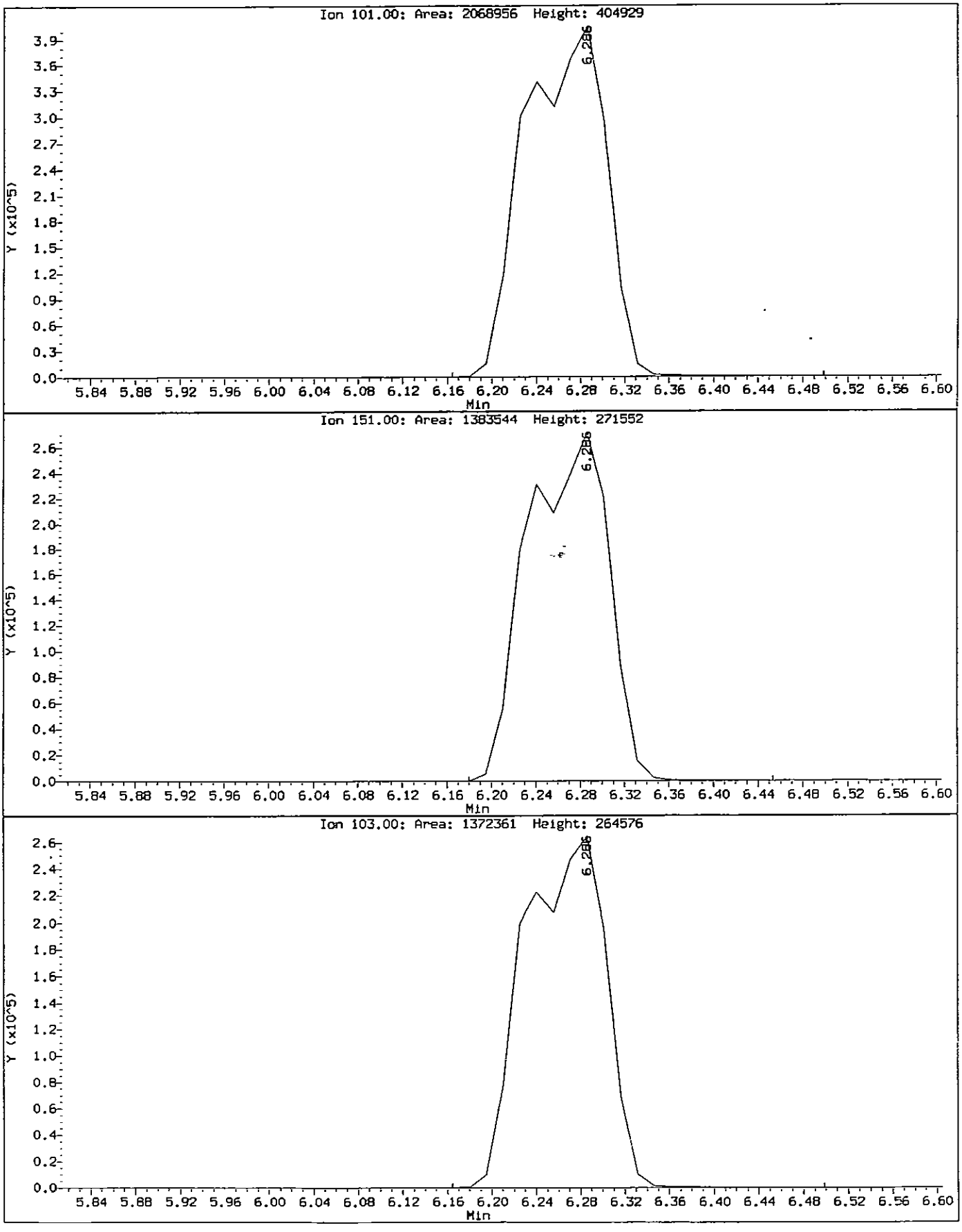






Data File: /chem/W.i/Wsvr.p/wceto14.b/ce040.d
Injection Date: 18-DEC-2000 10:38
Instrument: W.i
Client Sample ID: ASTD040

Compound: Freon TF
CAS Number: 76-13-1



STL Burlington

INITIAL CALIBRATION DATA

Start Cal Date : 18-DEC-2000 10:04
End Cal Date : 18-DEC-2000 13:44
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/W.i/Wsvr.p/wceto14.b/ato14.m
Cal Date : 26-Dec-2000 14:40 mim
Curve Type : Average

Calibration File Names:
Level 1: /chem/W.i/Wsvr.p/wceto14.b/ce0005i2.d
Level 2: /chem/W.i/Wsvr.p/wceto14.b/ce005.d
Level 3: /chem/W.i/Wsvr.p/wceto14.b/ce010i2.d
Level 4: /chem/W.i/Wsvr.p/wceto14.b/ce020.d
Level 5: /chem/W.i/Wsvr.p/wceto14.b/ce040.d

Compound	0.50000 Level 1	5.000 Level 2	10.000 Level 3	20.000 Level 4	40.000 Level 5	$\overline{RRF}$	% RSD
1 Dichlorodifluoromethane	2.82890	2.55636	2.33420	2.07869	1.96356	2.35234	14.956
2 Chloromethane	0.67602	0.64687	0.61417	0.52319	0.50622	0.59330	12.682
3 Dichlorotetrafluoroethane	2.96272	2.57613	2.41371	2.02840	1.95928	2.38805	17.259
4 Vinyl Chloride	0.68450	0.69216	0.67015	0.58497	0.55996	0.63835	9.603
5 Bromomethane	0.93001	0.92929	0.81287	0.71634	0.72603	0.82291	12.691
6 Chloroethane	0.42855	0.43751	0.39748	0.33859	0.36433	0.39329	10.672
7 Trichlorofluoromethane	2.51971	2.47777	2.22203	2.04239	1.93546	2.23947	11.534
8 1,1-Dichloroethene	0.92542	0.87980	0.79211	0.70112	0.68838	0.79737	13.208
9 Methylene Chloride	1.44608	0.96687	0.90655	0.77280	0.76230	0.97092	28.798
10 Freon TF	2.13207	1.95915	1.82171	1.61514	1.56548	1.81871	12.997
11 1,1-Dichloroethane	1.70406	1.69577	1.49474	1.29141	1.26042	1.48928	14.257
12 cis-1,2-Dichloroethene	1.19167	1.24773	1.10154	1.06404	0.95034	1.11106	10.390
14 Chloroform	2.26467	2.16705	1.95206	1.81495	1.64163	1.96807	12.900
15 1,2-Dichloroethane	1.48176	1.42676	1.28600	1.23977	1.17500	1.32186	9.729
16 1,1,1-Trichloroethane	2.10013	2.09067	1.80070	1.75038	1.60913	1.87020	11.617
17 Benzene	0.69814	0.61048	0.55149	0.51394	0.48013	0.57084	15.074
18 Carbon Tetrachloride	0.49086	0.44478	0.42748	0.38129	0.35987	0.42086	12.348
20 1,2-Dichloropropane	0.25479	0.23097	0.20962	0.19367	0.18081	0.21397	13.797
21 Trichloroethene	0.33068	0.30142	0.27349	0.24904	0.23210	0.27735	14.294
22 cis-1,3-Dichloropropene	0.24595	0.25346	0.25751	0.25597	0.26322	0.25522	2.469
23 trans-1,3-Dichloropropene	0.17248	0.18226	0.16648	0.18894	0.19418	0.18087	6.314
24 1,1,2-Trichloroethane	0.26384	0.24834	0.22719	0.20590	0.19256	0.22757	12.891
25 Toluene	0.42147	0.44197	0.40421	0.36129	0.35403	0.39660	9.597
26 1,2-Dibromoethane	0.34854	0.34990	0.33610	0.30516	0.30318	0.32857	6.978
27 Tetrachloroethene	0.35849	0.34167	0.30877	0.27931	0.27217	0.31208	12.105
29 Chlorobenzene	0.66041	0.56197	0.52136	0.46191	0.44486	0.53010	16.334

STL Burlington

INITIAL CALIBRATION DATA

Start Cal Date : 18-DEC-2000 10:04
End Cal Date : 18-DEC-2000 13:44
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/W.i/Wsvr.p/wceto14.b/ato14.m
Cal Date : 26-Dec-2000 14:40 mim
Curve Type : Average

	Compound	0.50000 Level 1	5.000 Level 2	10.000 Level 3	20.000 Level 4	40.000 Level 5	RRF	% RSD	
	30 Ethylbenzene	1.00334	1.01464	0.93787	0.81869	0.78796	0.91250	11.447	
	31 Xylene (m,p)	0.36765	0.34686	0.33420	0.29813	0.30237	0.32984	8.965	
	32 Styrene	0.36313	0.24312	0.33430	0.36048	0.34288	0.32878	15.018	
M	33 Xylene (total)	1.09735	1.03106	0.99230	0.88901	0.90183	0.98231	8.947	
	34 1,1,2,2-Tetrachloroethane	0.66080	0.54170	0.51274	0.45869	0.45109	0.52500	16.143	
	35 Xylene (o)	0.36206	0.33733	0.32391	0.29274	0.29708	0.32262	8.928	
	36 1,3,5-Trimethylbenzene	0.68412	0.67375	0.66852	0.62174	0.63337	0.65630	4.136	
	37 1,2,4-Trimethylbenzene	0.64061	0.58943	0.60366	0.58287	0.60942	0.60520	3.714	
	38 1,3-Dichlorobenzene	0.47818	0.42455	0.39769	0.39760	0.43363	0.42633	7.771	
	39 1,4-Dichlorobenzene	0.55761	0.37402	0.40780	0.40487	0.43333	0.43553	16.397	
	40 1,2-Dichlorobenzene	0.39454	0.30579	0.31949	0.32954	0.36609	0.34309	10.617	
	41 1,2,4-Trichlorobenzene	0.04105	0.03426	0.03430	0.04413	0.08067	0.04688	41.312	<-
	42 Hexachlorobutadiene	0.11840	0.06655	0.06744	0.06458	0.09282	0.08196	28.590	

FORM 7
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 81024

Instrument ID: W Calibration Date: 12/18/00 Time: 1344

Lab File ID: CE010I2 Init. Calib. Date(s): 12/18/00 12/18/00

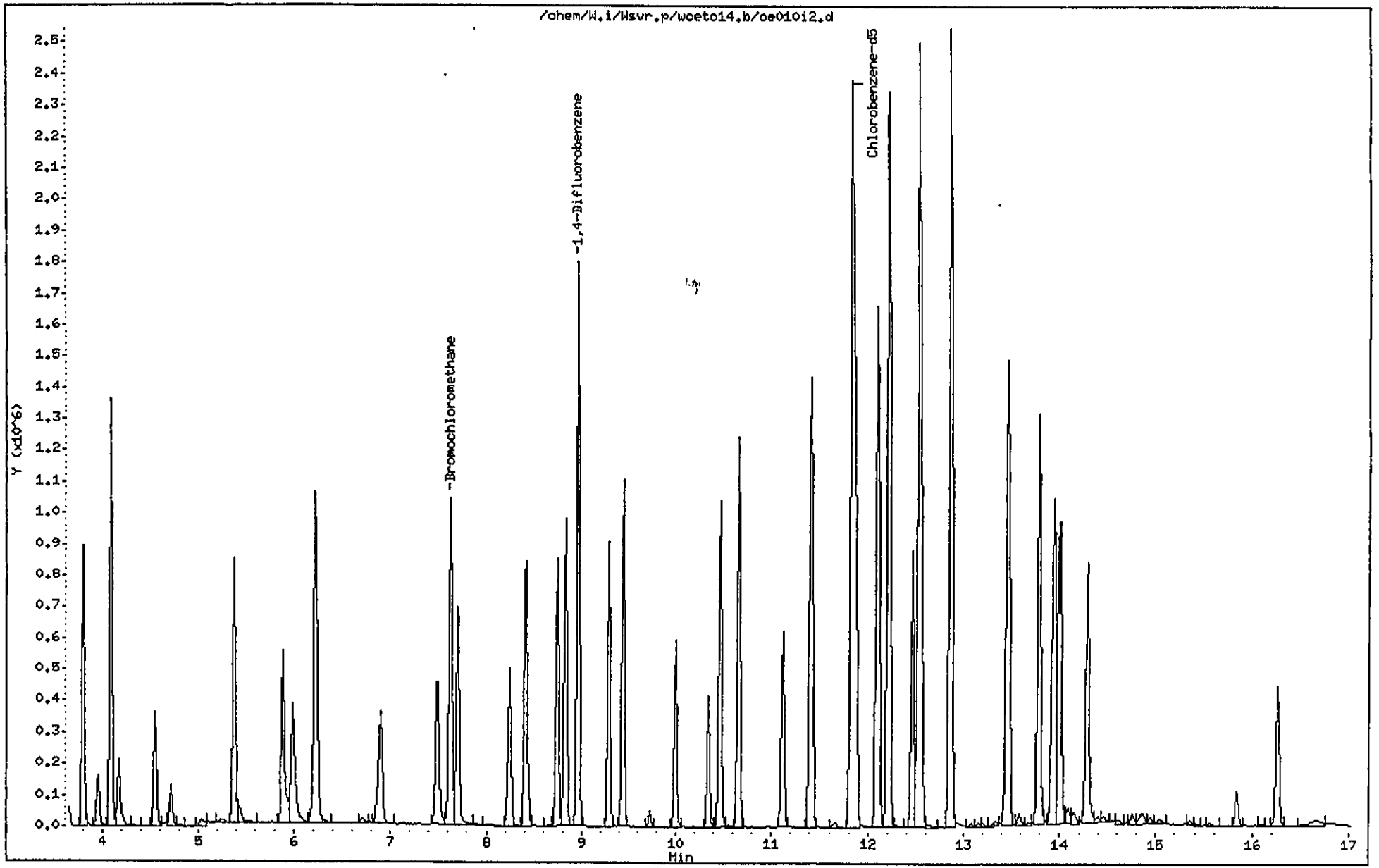
Heated Purge: (Y/N) N Init. Calib. Times: 1004 1344

GC Column: DB-1 ID: 0.35 (mm)

COMPOUND	$\overline{RRF}$	RRF10	MIN RRF	%D	MAX %D
Chloromethane	0.593	0.614	0.1	3.5	30.0
Vinyl Chloride	0.638	0.670	0.01	5.0	30.0
Bromomethane	0.823	0.813	0.01	1.2	30.0
Chloroethane	0.393	0.397	0.01	1.0	30.0
Trichlorofluoromethane	2.239	2.222	0.01	0.8	30.0
Methylene Chloride	0.971	0.906	0.01	6.7	30.0
1,1-Dichloroethane	1.489	1.495	0.1	0.4	30.0
cis-1,2-Dichloroethene	1.111	1.102	0.01	0.8	30.0
Chloroform	1.968	1.952	0.01	0.8	30.0
1,1,1-Trichloroethane	1.870	1.801	0.01	3.7	30.0
Carbon Tetrachloride	0.421	0.427	0.01	1.4	30.0
Benzene	0.571	0.551	0.01	3.5	30.0
1,2-Dichloroethane	1.322	1.286	0.01	2.7	30.0
Trichloroethene	0.277	0.273	0.01	1.4	30.0
1,2-Dichloropropane	0.214	0.210	0.01	1.9	30.0
cis-1,3-Dichloropropene	0.255	0.258	0.01	1.2	30.0
Toluene	0.396	0.404	0.01	2.0	30.0
trans-1,3-Dichloropropene	0.181	0.166	0.01	8.3	30.0
1,1,2-Trichloroethane	0.227	0.227	0.01	0.0	30.0
Tetrachloroethene	0.312	0.309	0.01	1.0	30.0
Chlorobenzene	0.530	0.521	0.3	1.7	30.0
Ethylbenzene	0.913	0.938	0.01	2.7	30.0
Xylene (total)	0.982	0.992	0.01	1.0	30.0
Styrene	0.329	0.334	0.01	1.5	30.0
Xylene (m,p)	0.330	0.334	0.01	1.2	30.0
Xylene (o)	0.323	0.324	0.01	0.3	30.0
1,1,2,2-Tetrachloroethane	0.525	0.513	0.01	2.3	30.0
1,3-Dichlorobenzene	0.426	0.398	0.01	6.6	30.0
1,4-Dichlorobenzene	0.436	0.408	0.01	6.4	30.0
1,2-Dichlorobenzene	0.343	0.319	0.01	7.0	30.0

Data File: /chem/W.i/Wsvr.p/wcets14.b/ce010i2.d
Date : 18-DEC-2000 13:44
Client ID: ASTD010
Sample Info: ASTD010;ASTD010
Purge Volume: 200.0
Column phase: DB-1

Instrument: W.i
Operator: GMM
Column diameter: 0.35



STL Burlington

AIR TOXICS QUANTITATION REPORT

Data file : /chem/W.i/Wsvr.p/wceto14.b/ce010i2.d
Lab Smp Id: ASTD010 Client Smp ID: ASTD010
Inj Date : 18-DEC-2000 13:44
Operator : GMM Inst ID: W.i
Smp Info : ASTD010;ASTD010
Misc Info :
Comment :
Method : /chem/W.i/Wsvr.p/wceto14.b/ato14.m
Meth Date : 26-Dec-2000 14:40 mim Quant Type: ISTD
Cal Date : 18-DEC-2000 13:44 Cal File: ce010i2.d
Als bottle: 1 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50
Processing Host: chemsvr4

Concentration Formula: Amt * DF * X* Uf/Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
X	200.00000	method volume factor
Uf	1.00000	ng unit correction factor
Vo	200.00000	Sample Volume purged (mL)

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	AMOUNTS ON-COL (ppbv)
1	Dichlorodifluoromethane	85	3.797	3.797	(0.498)	783179	10.0000	9.9
2	Chloromethane	50	3.955	3.955	(0.519)	206070	10.0000	10
3	Dichlorotetrafluoroethane	85	4.085	4.085	(0.536)	809859	10.0000	10
4	Vinyl Chloride	62	4.171	4.171	(0.547)	224852	10.0000	10
5	Bromomethane	94	4.546	4.546	(0.597)	272737	10.0000	9.9
6	Chloroethane	64	4.719	4.719	(0.619)	133364	10.0000	10(M)
7	Trichlorofluoromethane	101	5.375	5.375	(0.705)	745546	10.0000	9.9(M)
8	1,1-Dichloroethene	96	5.891	5.891	(0.773)	265771	10.0000	9.9
9	Methylene Chloride	49	5.982	5.982	(0.785)	304170	10.0000	9.3
10	Freon TF	101	6.210	6.210	(0.815)	611228	10.0000	10
11	1,1-Dichloroethane	63	6.892	6.892	(0.904)	501522	10.0000	10
12	cis-1,2-Dichloroethene	61	7.484	7.484	(0.982)	369594	10.0000	9.9
* 13	Bromochloromethane	128	7.621	7.621	(1.000)	335524	10.0000	
14	Chloroform	83	7.697	7.697	(1.010)	654964	10.0000	9.9

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	ON-COL (ppbv)
15	1,2-Dichloroethane	62	8.243	8.243	(1.082)	431485	10.0000	9.7
16	1,1,1-Trichloroethane	97	8.425	8.425	(1.106)	604178	10.0000	9.6
17	Benzene	78	8.744	8.744	(0.976)	795923	10.0000	9.7
18	Carbon Tetrachloride	117	8.835	8.835	(0.986)	616952	10.0000	10
* 19	1,4-Difluorobenzene	114	8.956	8.956	(1.000)	1443226	10.0000	
20	1,2-Dichloropropane	63	9.290	9.290	(1.037)	302529	10.0000	9.8
21	Trichloroethene	95	9.442	9.442	(1.054)	394714	10.0000	9.9
22	cis-1,3-Dichloropropene	75	10.003	10.003	(1.117)	371649	10.0000	10
23	trans-1,3-Dichloropropene	75	10.337	10.337	(1.154)	240262	10.0000	9.2
24	1,1,2-Trichloroethane	83	10.474	10.474	(1.169)	327884	10.0000	10
25	Toluene	92	10.656	10.656	(0.900)	608775	10.0000	10
26	1,2-Dibromoethane	107	11.126	11.126	(0.940)	506187	10.0000	10
27	Tetrachloroethene	166	11.415	11.415	(0.964)	465030	10.0000	9.9
* 28	Chlorobenzene-d5	117	11.840	11.840	(1.000)	1506068	10.0000	
29	Chlorobenzene	112	11.870	11.870	(1.003)	785207	10.0000	9.8
30	Ethylbenzene	91	12.098	12.098	(1.022)	1412489	10.0000	10
31	Xylene (m,p)	106	12.219	12.219	(1.032)	1006652	20.0000	20
32	Styrene	104	12.462	12.462	(1.053)	503486	10.0000	10
M 33	Xylene (total)	106				1494475	10.0000	30
34	1,1,2,2-Tetrachloroethane	83	12.523	12.523	(1.058)	772225	10.0000	9.8
35	Xylene (o)	106	12.538	12.538	(1.059)	487823	10.0000	10
36	1,3,5-Trimethylbenzene	105	13.463	13.463	(1.137)	1006840	10.0000	10
37	1,2,4-Trimethylbenzene	105	13.782	13.782	(1.164)	909158	10.0000	10
38	1,3-Dichlorobenzene	146	13.934	13.934	(1.177)	598947	10.0000	9.3
39	1,4-Dichlorobenzene	146	13.995	13.995	(1.182)	614179	10.0000	9.4
40	1,2-Dichlorobenzene	146	14.283	14.283	(1.206)	481180	10.0000	9.3
41	1,2,4-Trichlorobenzene	180	15.846	15.846	(1.338)	51665	10.0000	7.3
42	Hexachlorobutadiene	225	16.271	16.271	(1.374)	101567	10.0000	8.2

QC Flag Legend

M - Compound response manually integrated.

MWM 12/26/00

SEVERN TRENT SERVICES

Severn Trent Laboratories, Inc.

METHOD TO-14A
VOLATILE ORGANIC ANALYSIS

RAW QC DATA

Data File: /chem/W.i/Wsvr.p/wceto14.b/ce001p.d

Date : 18-DEC-2000 08:05

Client ID: WBFB001

Instrument: W.i

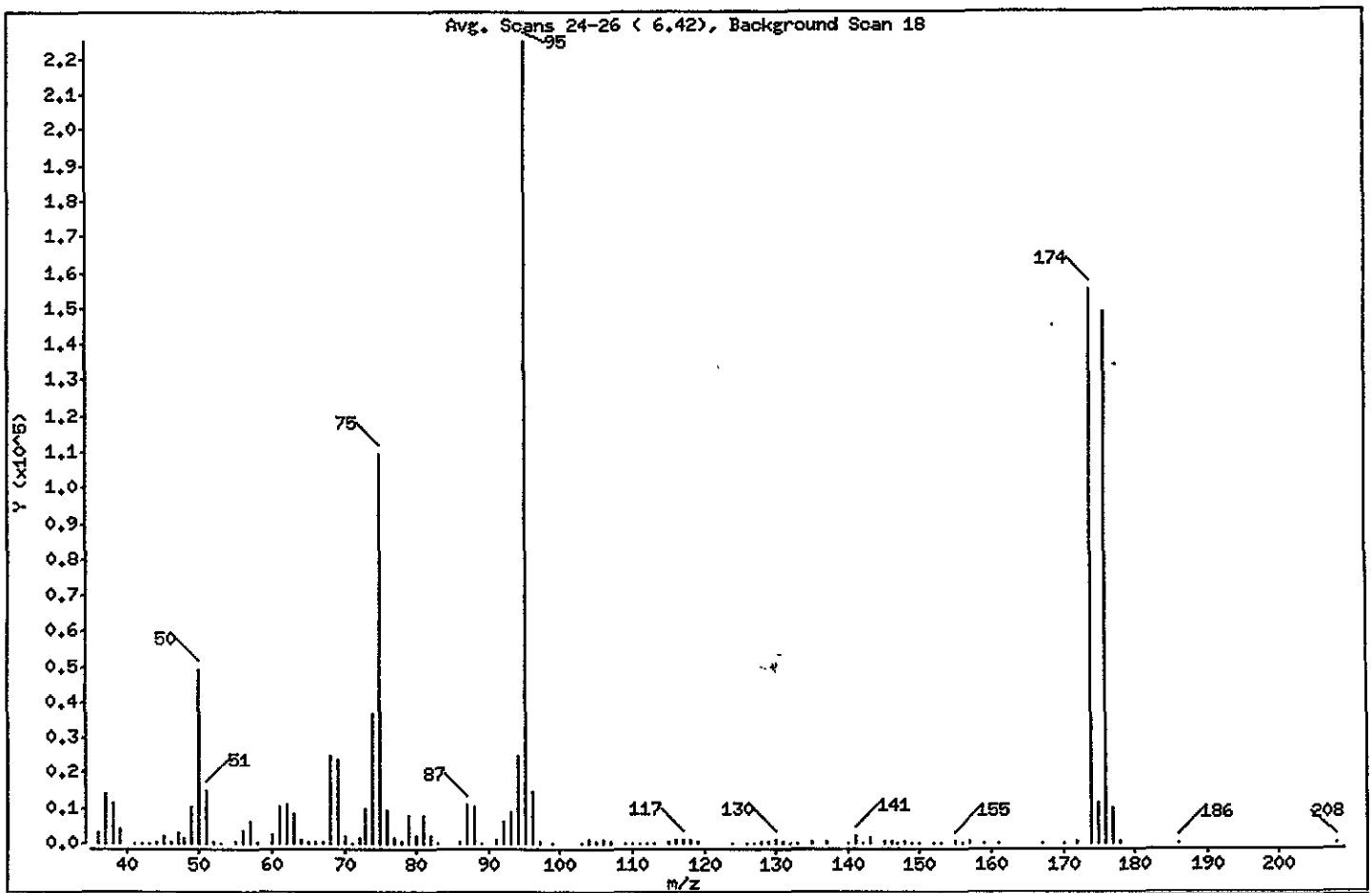
Sample Info: WBFB001

Operator: GHM

Column phase: DB-1

Column diameter: 0.32

$ 1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	8.00 - 40.00% of mass 95	21.79
75	30.00 - 66.00% of mass 95	48.61
96	5.00 - 9.00% of mass 95	6.36
173	Less than 2.00% of mass 174	0.00 (0.00)
174	50.00 - 120.00% of mass 95	68.86
175	4.00 - 9.00% of mass 174	5.04 (7.32)
176	93.00 - 101.00% of mass 174	66.24 (96.20)
177	5.00 - 9.00% of mass 176	4.37 (6.59)

Data File: /chem/W.i/Wsvr.p/wceto14.b/ce001p.d

Date : 18-DEC-2000 08:05

Client ID: WBFB001

Instrument: W.i

Sample Info: WBFB001

Operator: GHH

Column phase: DB-1

Column diameter: 0.32

Data File: ce001p.d

Spectrum: Avg. Scans 24-26 (6.42), Background Scan 18

Location of Maximum: 95.00

Number of points: 110

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	2910	67.00	467	99.00	61	141.00	1879
37.00	13908	68.00	24824	103.00	213	142.00	233
38.00	11543	69.00	24000	104.00	922	143.00	1744
39.00	4393	70.00	1985	105.00	477	145.00	270
41.00	19	71.00	58	106.00	1041	146.00	374
42.00	23	72.00	1387	107.00	347	147.00	146
43.00	128	73.00	9701	109.00	117	148.00	339
44.00	575	74.00	36752	110.00	170	149.00	164
45.00	2314	75.00	109456	111.00	169	150.00	186
46.00	288	76.00	9129	112.00	51	152.00	147
47.00	3115	77.00	1332	113.00	127	153.00	59
48.00	1547	78.00	706	115.00	363	155.00	429
49.00	10543	79.00	8023	116.00	795	156.00	50
50.00	49064	80.00	2151	117.00	1125	157.00	311
51.00	15141	81.00	7941	118.00	809	159.00	147
52.00	397	82.00	1817	119.00	705	161.00	205
53.00	26	83.00	11	124.00	52	167.00	197
55.00	500	86.00	289	126.00	118	170.00	57
56.00	3604	87.00	10899	127.00	56	172.00	704
57.00	6303	88.00	10210	128.00	726	174.00	155008
58.00	279	89.00	63	129.00	529	175.00	11355
60.00	2433	91.00	886	130.00	988	176.00	149120
61.00	10471	92.00	6033	131.00	406	177.00	9829
62.00	10783	93.00	8855	132.00	57	178.00	282
63.00	8274	94.00	25088	133.00	64	186.00	65
64.00	815	95.00	225152	135.00	313	208.00	51
65.00	540	96.00	14324	137.00	339		
66.00	299	97.00	558	140.00	131		

Data File: /chem/W.i/Wsvr.p/wceto14.b/ce001p.d

Date : 18-DEC-2000 08:05

Client ID: WBFB001

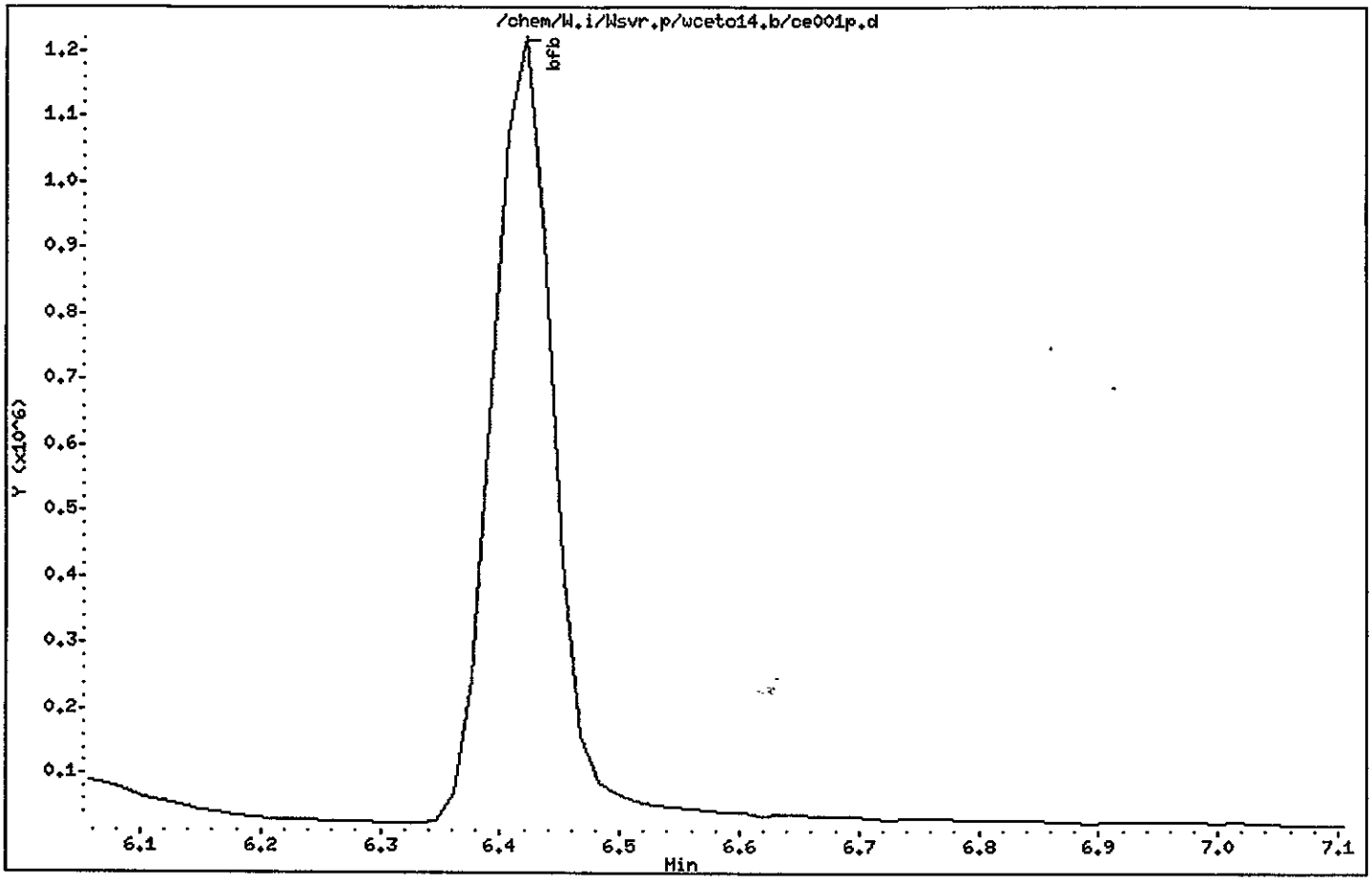
Instrument: W.i

Sample Info: WBFB001

Operator: GMH

Column phase: DB-1

Column diameter: 0.32



FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

STLVT SAMPLE NO.

ABLKL4

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 81024

Matrix: (soil/water) AIR Lab Sample ID: ABLKL4

Sample wt/vol: 200 (g/mL) ML Lab File ID: CEB001

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

% Moisture: not dec. _____ Date Analyzed: 12/18/00

GC Column: DB-1 ID: 0.35 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) PPBV	Q
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl Chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-09-2	Methylene Chloride	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
56-23-5	Carbon Tetrachloride	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-88-3	Toluene	0.50	U
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
1330-20-7	Xylene (total)	0.50	U
100-42-5	Styrene	0.50	U
1330-20-7	Xylene (m,p)	0.50	U
95-47-6	Xylene (o)	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

STLVT SAMPLE NO.

ABLKL4

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 81024

Matrix: (soil/water) AIR Lab Sample ID: ABLKL4

Sample wt/vol: 200 (g/mL) ML Lab File ID: CEB001

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

% Moisture: not dec. _____ Date Analyzed: 12/18/00

GC Column: DB-1 ID: 0.35 (mm) Dilution Factor: 1.0

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

Number TICs found: 0

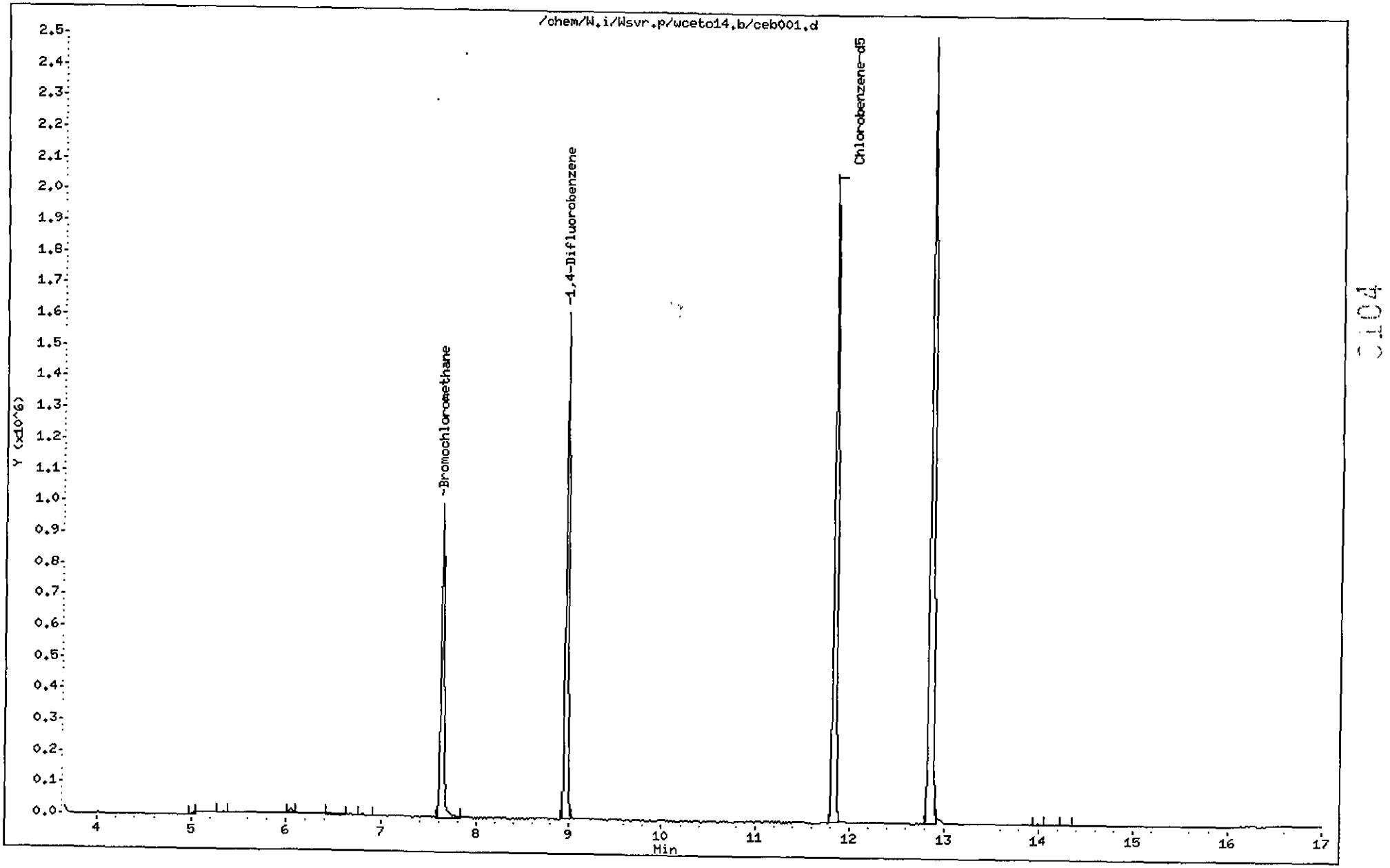
CONCENTRATION UNITS:
(ug/L or ug/Kg) ppbv

	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.					

Data File: /chem/W.i/Wsvr.p/wceto14.b/ceb001.d
Date : 18-DEC-2000 15:25
Client ID: ABLKL4
Sample Info: ABLKL4;ABLKL4;;1218L4
Purge Volume: 200.0
Column phase: DB-1

Instrument: W.i

Operator: GMM
Column diameter: 0.35



STL Burlington

AIR TOXICS QUANTITATION REPORT

Data file : /chem/W.i/Wsvr.p/wceto14.b/ceb001.d
Lab Smp Id: ABLKL4 Client Smp ID: ABLKL4
Inj Date : 18-DEC-2000 15:25
Operator : GMM Inst ID: W.i
Smp Info : ABLKL4;ABLKL4;;1218L4
Misc Info :
Comment :
Method : /chem/W.i/Wsvr.p/wceto14.b/ato14.m
Meth Date : 26-Dec-2000 14:40 mim Quant Type: ISTD
Cal Date : 18-DEC-2000 13:44 Cal File: ce010i2.d
Als bottle: 2 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ACCANA2.sub
Target Version: 3.50
Processing Host: chemsvr4

Concentration Formula: Amt * DF * X* Uf/Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
X	200.00000	method volume factor
Uf	1.00000	ng unit correction factor
Vo	200.00000	Sample Volume purged (mL)

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)
2	Chloromethane	50	Compound Not Detected.					
4	Vinyl Chloride	62	Compound Not Detected.					
5	Bromomethane	94	Compound Not Detected.					
6	Chloroethane	64	Compound Not Detected.					
7	Trichlorofluoromethane	101	Compound Not Detected.					
9	Methylene Chloride	49	Compound Not Detected.					
11	1,1-Dichloroethane	63	Compound Not Detected.					
12	cis-1,2-Dichloroethene	61	Compound Not Detected.					
* 13	Bromochloromethane	128	7.637	7.621	(1.000)	297081	10.0000	
14	Chloroform	83	Compound Not Detected.					
15	1,2-Dichloroethane	62	Compound Not Detected.					
16	1,1,1-Trichloroethane	97	Compound Not Detected.					
17	Benzene	78	Compound Not Detected.					
18	Carbon Tetrachloride	117	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)
*	19 1,4-Difluorobenzene	114	8.972	8.956	(1.000)	1382662	10.0000	
	20 1,2-Dichloropropane	63	Compound Not Detected.					
	21 Trichloroethene	95	Compound Not Detected.					
	22 cis-1,3-Dichloropropene	75	Compound Not Detected.					
	23 trans-1,3-Dichloropropene	75	Compound Not Detected.					
	24 1,1,2-Trichloroethane	83	Compound Not Detected.					
	25 Toluene	92	Compound Not Detected.					
	27 Tetrachloroethene	166	Compound Not Detected.					
*	28 Chlorobenzene-d5	117	11.840	11.840	(1.000)	1481319	10.0000	
	29 Chlorobenzene	112	Compound Not Detected.					
	30 Ethylbenzene	91	Compound Not Detected.					
	31 Xylene (m,p)	106	Compound Not Detected.					
	32 Styrene	104	Compound Not Detected.					
M	33 Xylene (total)	106	Compound Not Detected.					
	34 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					
	35 Xylene (o)	106	Compound Not Detected.					
	38 1,3-Dichlorobenzene	146	Compound Not Detected.					
	39 1,4-Dichlorobenzene	146	Compound Not Detected.					
	40 1,2-Dichlorobenzene	146	Compound Not Detected.					

STL Burlington

AIR TOXICS QUANTITATION REPORT

Data file : /chem/W.i/Wsvr.p/wceto14.b/ceb001.d
Lab Smp Id: ABLKL4 Client Smp ID: ABLKL4
Inj Date : 18-DEC-2000 15:25
Operator : GMM Inst ID: W.i
Smp Info : ABLKL4;ABLKL4;;1218L4
Misc Info :
Comment :
Method : /chem/W.i/Wsvr.p/wceto14.b/ato14.m
Meth Date : 26-Dec-2000 14:40 mim Quant Type: ISTD
Cal Date : 18-DEC-2000 13:44 Cal File: ce010i2.d
Als bottle: 2 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ACCANA2.sub
Target Version: 3.50
Processing Host: chemsvr4

- NO TENTATIVELY IDENTIFIED COMPOUNDS -

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

STLVT SAMPLE NO.

L4_ICVLCS

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 81024

Matrix: (soil/water) AIR Lab Sample ID: L4_ICVLCS

Sample wt/vol: 200 (g/mL) ML Lab File ID: CE010Q

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

% Moisture: not dec. _____ Date Analyzed: 12/18/00

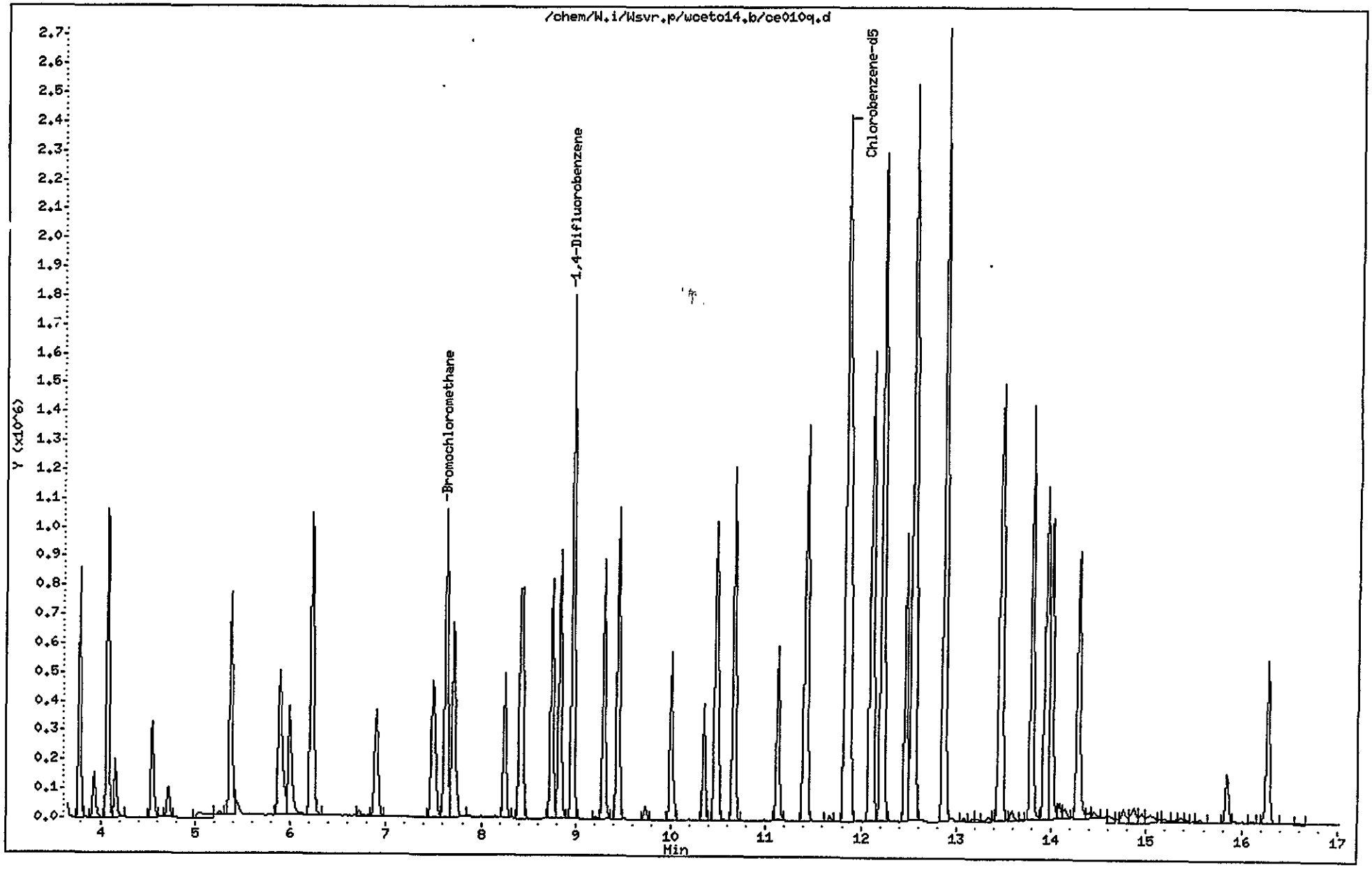
GC Column: DB-1 ID: 0.35 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) PPBV	Q
74-87-3	Chloromethane	9.5	
75-01-4	Vinyl Chloride	9.5	
74-83-9	Bromomethane	9.1	
75-00-3	Chloroethane	9.0	
75-69-4	Trichlorofluoromethane	9.4	
75-09-2	Methylene Chloride	8.7	
75-34-3	1,1-Dichloroethane	9.4	
156-59-2	cis-1,2-Dichloroethene	9.4	
67-66-3	Chloroform	9.4	
71-55-6	1,1,1-Trichloroethane	9.1	
56-23-5	Carbon Tetrachloride	9.6	
71-43-2	Benzene	9.3	
107-06-2	1,2-Dichloroethane	9.7	
79-01-6	Trichloroethene	9.7	
78-87-5	1,2-Dichloropropane	9.5	
10061-01-5	cis-1,3-Dichloropropene	9.5	
108-88-3	Toluene	9.6	
10061-02-6	trans-1,3-Dichloropropene	8.6	
79-00-5	1,1,2-Trichloroethane	9.7	
127-18-4	Tetrachloroethene	9.2	
108-90-7	Chlorobenzene	9.3	
100-41-4	Ethylbenzene	9.6	
1330-20-7	Xylene (total)	29	
100-42-5	Styrene	11	
1330-20-7	Xylene (m,p)	19	
95-47-6	Xylene (o)	9.6	
79-34-5	1,1,2,2-Tetrachloroethane	9.9	
541-73-1	1,3-Dichlorobenzene	10	
106-46-7	1,4-Dichlorobenzene	10	
95-50-1	1,2-Dichlorobenzene	10	

Data File: /chem/W.i/Wsvr.p/wceto14.b/ce010q.d
Date : 18-DEC-2000 14:17
Client ID: L4_ICVLCS
Sample Info: L4_ICV;L4_ICVLCS
Purge Volume: 200.0
Column phase: DB-1

Instrument: W.i
Operator: CMH
Column diameter: 0.35



0109

STL Burlington

AIR TOXICS QUANTITATION REPORT

Data file : /chem/W.i/Wsvr.p/wceto14.b/ce010q.d
Lab Smp Id: L4_ICVLCS Client Smp ID: L4_ICVLCS
Inj Date : 18-DEC-2000 14:17
Operator : GMM Inst ID: W.i
Smp Info : L4_ICV;L4_ICVLCS
Misc Info :
Comment :
Method : /chem/W.i/Wsvr.p/wceto14.b/ato14.m
Meth Date : 26-Dec-2000 14:40 mim Quant Type: ISTD
Cal Date : 18-DEC-2000 13:44 Cal File: ce010i2.d
Als bottle: 1 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50
Processing Host: chemsvr4

Concentration Formula: Amt * DF * X* Uf/Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
X	200.00000	method volume factor
Uf	1.00000	ng unit correction factor
Vo	200.00000	Sample Volume purged (mL)

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	FINAL (ppbv)
1	Dichlorodifluoromethane	85	3.780	3.797	(0.496)	746358	9.33348	9.3
2	Chloromethane	50	3.939	3.955	(0.517)	191492	9.49458	9.5
3	Dichlorotetrafluoroethane	85	4.069	4.085	(0.534)	747656	9.20991	9.2
4	Vinyl Chloride	62	4.155	4.171	(0.545)	207034	9.54070	9.5
5	Bromomethane	94	4.544	4.546	(0.596)	253870	9.07523	9.1
6	Chloroethane	64	4.717	4.719	(0.619)	120784	9.03426	9.0(M)
7	Trichlorofluoromethane	101	5.376	5.375	(0.705)	716553	9.41236	9.4(M)
8	1,1-Dichloroethene	96	5.892	5.891	(0.773)	253482	9.35160	9.4
9	Methylene Chloride	49	5.983	5.982	(0.785)	287208	8.70182	8.7
10	Freon TF	101	6.211	6.210	(0.815)	585471	9.46975	9.5
11	1,1-Dichloroethane	63	6.894	6.892	(0.904)	477215	9.42615	9.4
12	cis-1,2-Dichloroethene	61	7.486	7.484	(0.982)	356603	9.44152	9.4
* 13	Bromochloromethane	128	7.622	7.621	(1.000)	339941	10.0000	(Q)
14	Chloroform	83	7.698	7.697	(1.010)	630819	9.42889	9.4

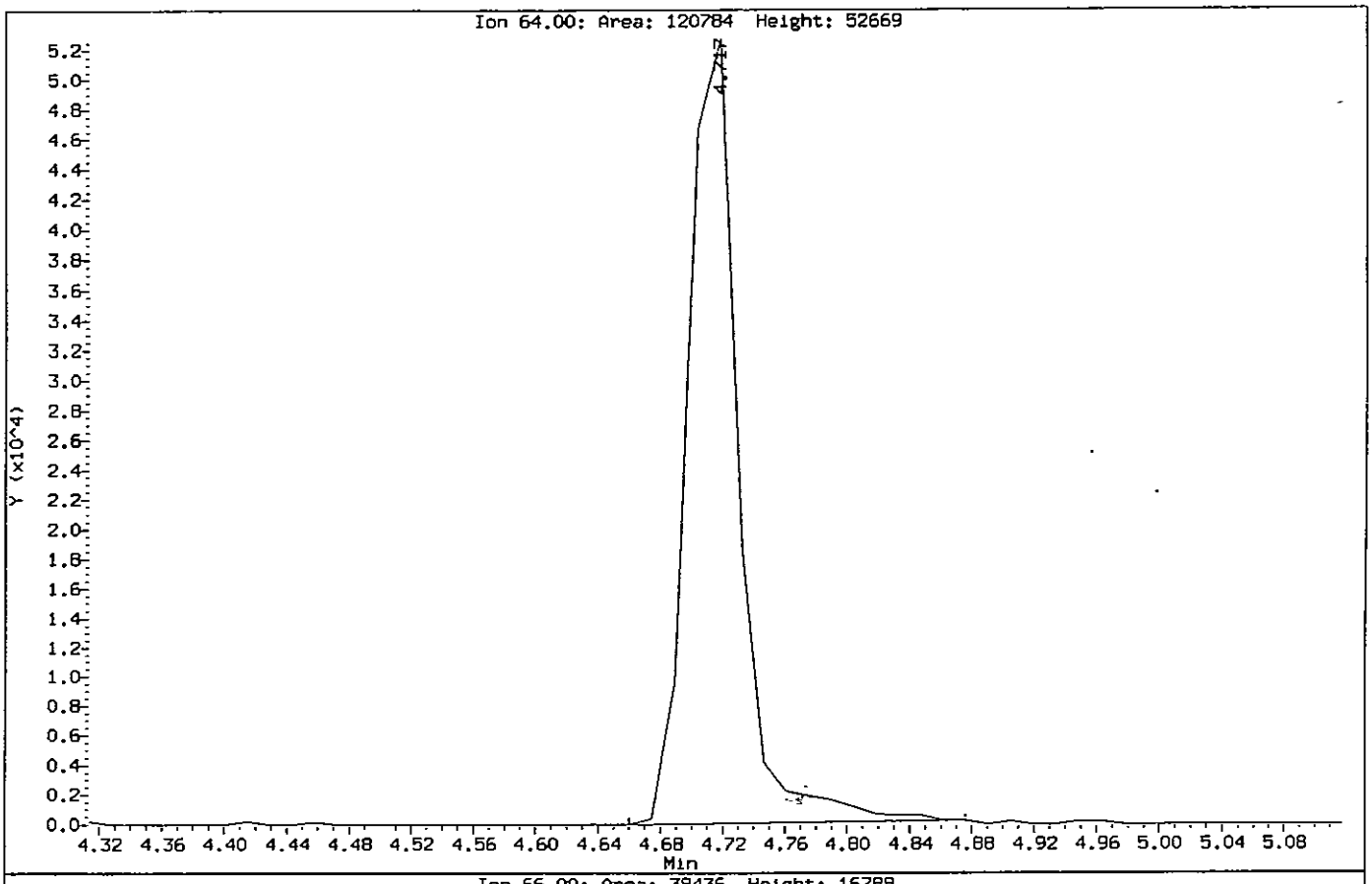
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	FINAL (ppbv)
	15 1,2-Dichloroethane	62	8.244	8.243	(1.082)	436880	9.72240	9.7
	16 1,1,1-Trichloroethane	97	8.426	8.425	(1.106)	579758	9.11916	9.1
	17 Benzene	78	8.745	8.744	(0.976)	764070	9.33408	9.3
	18 Carbon Tetrachloride	117	8.836	8.835	(0.986)	581541	9.63601	9.6
*	19 1,4-Difluorobenzene	114	8.958	8.956	(1.000)	1434000	10.0000	
	20 1,2-Dichloropropane	63	9.291	9.290	(1.037)	292281	9.52566	9.5
	21 Trichloroethene	95	9.443	9.442	(1.054)	384266	9.66182	9.7
	22 cis-1,3-Dichloropropene	75	10.005	10.003	(1.117)	348128	9.51202	9.5
	23 trans-1,3-Dichloropropene	75	10.339	10.337	(1.154)	224422	8.65277	8.6
	24 1,1,2-Trichloroethane	83	10.475	10.474	(1.169)	315316	9.66248	9.7
	25 Toluene	92	10.657	10.656	(0.900)	584045	9.59851	9.6
	26 1,2-Dibromoethane	107	11.128	11.126	(0.940)	488202	9.68437	9.7
	27 Tetrachloroethene	166	11.416	11.415	(0.964)	443018	9.25248	9.2
*	28 Chlorobenzene-d5	117	11.841	11.840	(1.000)	1534243	10.0000	
	29 Chlorobenzene	112	11.871	11.870	(1.003)	755097	9.28431	9.3
	30 Ethylbenzene	91	12.099	12.098	(1.022)	1350371	9.64554	9.6
	31 Xylene (m,p)	106	12.220	12.219	(1.032)	980171	19.3686	19
	32 Styrene	104	12.463	12.462	(1.053)	567917	11.2585	11
M	33 Xylene (total)	106				1457422	29.0105	29
	34 1,1,2,2-Tetrachloroethane	83	12.524	12.523	(1.058)	798442	9.91257	9.9
	35 Xylene (o)	106	12.539	12.538	(1.059)	477251	9.64181	9.6
	36 1,3,5-Trimethylbenzene	105	13.465	13.463	(1.137)	1044500	10.3732	10
	37 1,2,4-Trimethylbenzene	105	13.783	13.782	(1.164)	987639	10.6367	11
	38 1,3-Dichlorobenzene	146	13.935	13.934	(1.177)	663101	10.1376	10
	39 1,4-Dichlorobenzene	146	13.996	13.995	(1.182)	669222	10.0153	10
	40 1,2-Dichlorobenzene	146	14.284	14.283	(1.206)	533130	10.1282	10
	41 1,2,4-Trichlorobenzene	180	15.847	15.846	(1.338)	72465	10.0747	10
	42 Hexachlorobutadiene	225	16.257	16.271	(1.373)	127872	10.1693	10

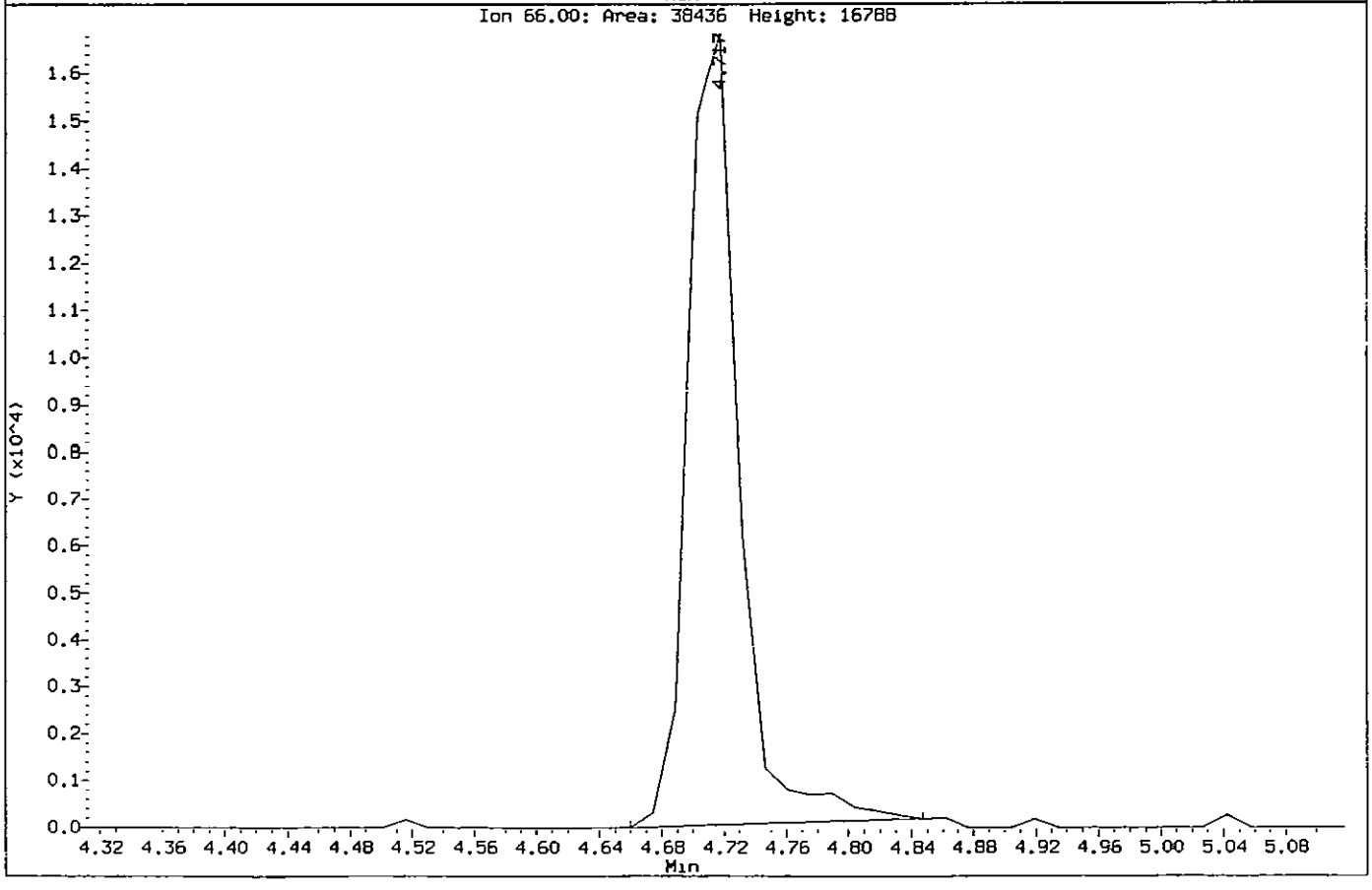
QC Flag Legend

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

Data File: /chem/W.i/Wsvr.p/wceto14.b/ce010q.d
Injection Date: 18-DEC-2000 14:17
Instrument: W.i
Client Sample ID: L4_ICVLCS

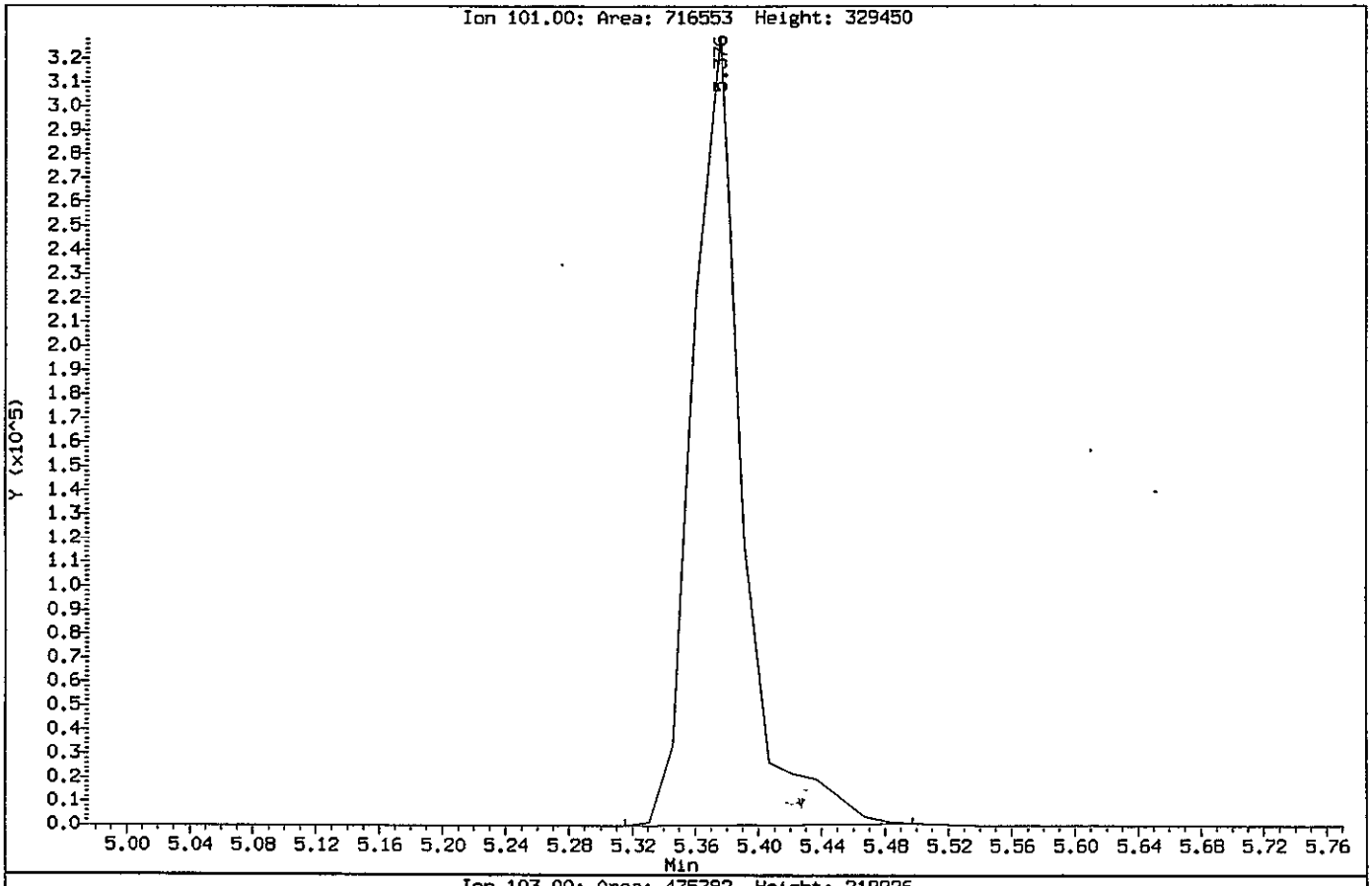
Compound: Chloroethane
CAS Number: 75-00-3

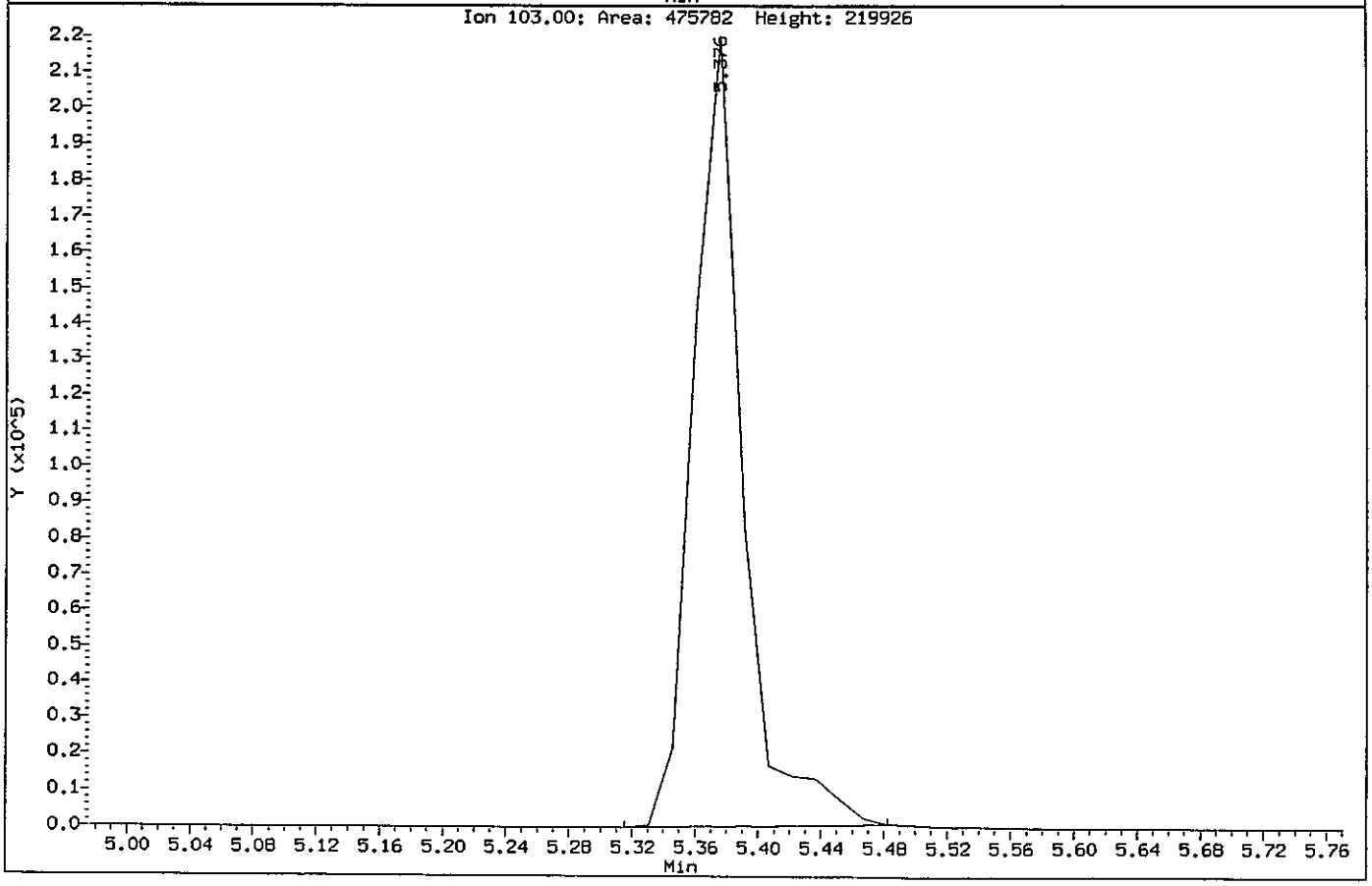




Data File: /chem/W.i/Wsvr.p/wceto14.b/ce010q.d
Injection Date: 18-DEC-2000 14:17
Instrument: W.i
Client Sample ID: L4_ICVLCS

Compound: Trichlorofluoromethane
CAS Number: 75-69-4





STL Burlington

RECOVERY REPORT

Client Name: STLVT
Sample Matrix: GAS
Lab Smp Id: L4_ICVLCS
Level: LOW
Data Type: MS DATA
SpikeList File: all.spk
Sublist File: all.sub
Method File: /chem/W.i/Wsvr.p/wceto14.b/ato14.m
Misc Info:

Client SDG:
Fraction: VOA
Client Smp ID: L4_ICVLCS
Operator: GMM
SampleType: LCS
Quant Type: ISTD

SPIKE COMPOUND	CONC ADDED ppbv	CONC RECOVERED ppbv	% RECOVERED	LIMITS
1 Dichlorodifluorome	10	9.3	93.33	70-130
2 Chloromethane	10	9.5	94.95	70-130
3 Dichlorotetrafluor	10	9.2	92.10	70-130
4 Vinyl Chloride	10	9.5	95.41	70-130
5 Bromomethane	10	9.1	90.75	70-130
6 Chloroethane	10	9.0	90.34	70-130
7 Trichlorofluoromet	10	9.4	94.12	70-130
8 1,1-Dichloroethene	10	9.4	93.52	70-130
9 Methylene Chloride	10	8.7	87.02	70-130
10 Freon TF	10	9.5	94.70	70-130
11 1,1-Dichloroethane	10	9.4	94.26	70-130
12 cis-1,2-Dichloroet	10	9.4	94.42	70-130
14 Chloroform	10	9.4	94.29	70-130
15 1,2-Dichloroethane	10	9.7	97.22	70-130
16 1,1,1-Trichloroeth	10	9.1	91.19	70-130
17 Benzene	10	9.3	93.34	70-130
18 Carbon Tetrachlori	10	9.6	96.36	70-130
20 1,2-Dichloropropan	10	9.5	95.26	70-130
21 Trichloroethene	10	9.7	96.62	70-130
22 cis-1,3-Dichloropr	10	9.5	95.12	70-130
23 trans-1,3-Dichloro	10	8.6	86.53	70-130
24 1,1,2-Trichloroeth	10	9.7	96.62	70-130
25 Toluene	10	9.6	95.99	70-130
26 1,2-Dibromoethane	10	9.7	96.84	70-130
27 Tetrachloroethene	10	9.2	92.52	70-130
29 Chlorobenzene	10	9.3	92.84	70-130
30 Ethylbenzene	10	9.6	96.46	70-130
31 Xylene (m,p)	20	19	96.84	70-130
32 Styrene	10	11	112.59	70-130
34 1,1,2,2-Tetrachlor	10	9.9	99.13	70-130
35 Xylene (o)	10	9.6	96.42	70-130
36 1,3,5-Trimethylben	10	10	103.73	70-130
37 1,2,4-Trimethylben	10	11	106.37	70-130

SPIKE COMPOUND	CONC ADDED ppbv	CONC RECOVERED ppbv	% RECOVERED	LIMITS
38 1,3-Dichlorobenzen	10	10	101.38	70-130
39 1,4-Dichlorobenzen	10	10	100.15	70-130
40 1,2-Dichlorobenzen	10	10	101.28	70-130
41 1,2,4-Trichloroben	10	10	100.75	70-130
42 Hexachlorobutadien	10	10	101.69	70-130

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Severn Trent Laboratories, Inc.

SAMPLE PREPARATION

Severn Trent Laboratories-VT
Instrument Run Log
Instrument W

Batch: wcet014
Opened: 12 / 18 / 00 **Time:** 0805
Closed: 12 / 19 / 00 **Time:** 0805

ETR #	SDG #
81024	81024
81015	BBL5A01

Tune: ✓ 250K
ISTD Tag #: 01-1388

Temp. 19.5 °C B.P.: 29.37 Hg

INJ. TIME	LAB ID	CAN ID #	CLIENT ID	ETR #	INLET #	SAMPLE VOLUME (mL)	DILUTION FACTOR	ISTD RECOVERY	CONC.	ANALYST	COMMENTS
0805	ce001p	n/a	WBFB001	n/a	n/a	n/a	n/a	n/a	✓	GMM	
0830	ce0005	6080	ASTD0005		2	20		✓	✓		AT12150001
1114	ce005	6026	005		3	35		✓	✓		AT12150001
0933	ce010		010		3	50		✓	✓		
1004	ce020		020		3	100		✓	✓		
1038	ce040		040		3	200		✓	✓		
1223	ce0005i2	6080	0005		2	20		✓	✓		
1344	ce010i2	6026	010		3	50		✓	✓		AT11290001
1417	ce0109	6063	L4-ICV		4	200		✓	✓		
1525	ceb001	n/a	ABLKL4		1	200		✓	✓		
1635	440589	6112	-ACAIA1-	81024	2	200	1 1	✓	✓		C
1707	440590	6104	-ACA2IA1-		3			✓	✓		C
1741	440591	6139	-ACAEA-		4			✓	✓		C
1815	440544	6144	AA-01-01	81015	6			✓	✓		C
1849	440545	6073	AA-02-01		7			✓	✓		C
1923	440546	6039	AA-03-01		9			✓	✓		C
1959	440547	6164	AA-04-01		10			✓	✓		C
2033	440548	6056	GV-01-01		11			✓	↑		

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Severn Trent Laboratories, Inc.

SAMPLE HANDLING

PLEASE FOLD THIS SHIPPING DOCUMENT IN HALF AND PLACE IT IN A WAYBILL POUCH AFFIXED TO YOUR SHIPMENT SO THAT THE BAR-CODE PORTION OF THE LABEL CAN BE READ AND SCANNED.
***WARNING: USE ONLY THE PRINTED ORIGINAL LABEL FOR SHIPPING. USING A PHOTOCOPY OF THIS LABEL FOR SHIPPING PURPOSES IS FRAUDULENT AND COULD RESULT IN ADDITIONAL BILLING CHARGES, ALONG WITH THE CANCELLATION OF YOUR FEDEX ACCOUNT NUMBER.

FROM: Randy Dumaop (904)777-4812
CCI / J.A. Jones Environmental
6219 Authority Ave.
Building 1
Jacksonville, FL 32215

SHIPPER'S FEDEX ACCOUNT NUMBER

FedEx
Federal Express

TO: Ron Pentkowski (802)655-1203
Severn Trent Laboratories
208 South Park Drive
Suite 1
Colchester, VT 05446-

SHIP DATE: 12DEC00
MAN-WGT: 25 LBS

REF: 154282.99.22.01.01

DELIVERY ADDRESS BARCODE (FEDEX-EDR)

CAD # 3844729 ** 2DAY **

THU
AA

TRK # 7919 1909 9377 FORM 0201

Deliver By:
BTV 14DEC00

05446-VT-US SB BTVA

0119

12-15-00 1000

SEVERN TRENT LABORATORIES LOG-IN SHEET - Form DC-1

Lab Name. Severn Trent Laboratories - VT — Page 1 of 1

Received By (Print Name) Frank Bessette — Log-in Date: 12-15-00

Received By (Signature)

Case Number. 20031

Sample Delivery Group No. 81024

ETR Number 81024

REMARKS.

1. **Custody Seal** *Present/Absent** *Intact/Broken*
2. **Custody Seal Nos.:** —
3. **Chain-of-Custody Records** *Present/Absent**
4. **Sample Information Sheets** *Present/Absent**
5. **Airbill** *Airbill/Sticker Present/Absent**
6. **Airbill No.:** 7919-1909-9377
7. **Sample Tags** *Present/Absent**
   Sample Tag Numbers *Listed/Not Listed on Chain-of-Custody*
8. **Sample Condition:** *Intact/Broken* Leaking*
9. **Does information on the custody records, sample information sheets, sample tags and labels agree?** *Yes/No**
10. **Date Received at Lab:** 12-15-00
11. **Time Received:** 1000
12. **Cooler Temperature:** N/A

Sample Transfer

Fraction. All

Area # Level 4

By: FB

On 12-15-00

CORRESPONDING			
CLIENT SAMPLE #	SAMPLE TAG #	ASSIGNED LAB #	REMARKS: CONDITION OF SAMPLE SHIPMENT. ETC.
023ACATA1211000	NA	440589	Were air bubbles present
023ACATA1211000	"	440590	in any VOA vials? NA
023ACATA1211000	"	440591	Samples received intact in a box with unbroken Custody seals present.
			For sample truncation removed dashes.
			FB 12-15-00

* Contact Project Director

Reviewed by. _____ Logbook No.. _____

Date _____ Logbook Page No.: _____

0120

** COOLER RECEIPT CHECKLIST **

WERE CUSTODY SEALS PRESENT ON THE COOLERS?

(YES) NO

IF SO, WERE THERE CUSTODY SEAL NUMBERS?

YES (NO)

LIST THE CUSTODY SEAL NUMBERS. / /

WHAT TYPE OF COOLING WAS UTILIZED?

ICE MELTED ICE PACKS (NONE)

COOLER TEMPERATURE (degrees c): Box

DATE AND TIME COOLER RECEIVED: 12-15-00 1000

DO SAMPLES APPEAR TO BE INTACT: (YES) NO

DO ANY SAMPLES HAVE SHORT HOLDING TIMES?
(less than seven days)

WET CHEM	YES	(NO)
EXTRACTABLES	YES	(NO)
UNPRES VOA	YES	(NO)

RADIATION SCREEN RESULTS <0.05 MR/HR (YES) NO

SEVERN TRENT SERVICES

Severn Trent Laboratories, Inc.

SAMPLE DATA SUMMARY PACKAGE

SDG NO: 81391

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STL Burlington
208 South Park Drive
Suite 1
Colchester, VT 05446

Tel: 802 655 1203
Fax: 802 655 1248
www.stl-inc com

January 29, 2001

Ms. Bonnie Hogue
Accura Analytical Laboratories
6017 Financial Drive
Norcross, GA 30071

Re: Laboratory Project No. 20031
Case: 20031; SDG: 81391

Dear Ms. Hogue:

Enclosed are the analytical results of samples received intact by Severn Trent Laboratories on January 19, 2001. Laboratory numbers have been assigned and designated as follows:

Lab ID	Client Sample ID	Sample Date	Sample Matrix
	Received: 01/19/01 ETR No: 81391		
442842	029ACAIA01170108	01/17/01	Air
442843	029ACA2IA01170108	01/17/01	Air
442844	029ACAEA01170108	01/17/01	Air

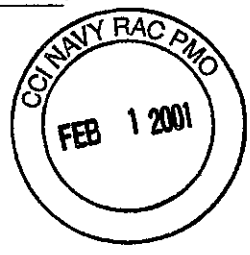
Method TO-14A Modified-Volatile Organics;
Please note that due to a limitation of characters inherent in the reporting software, some characters of the client identification above were truncated.

The laboratory noted no exceptions to method quality control requirements for this analytical work.

Please note that client specific matrix spike/matrix spike duplicate samples were not performed, nor requested with this sample delivery group.

If there are any questions regarding this submittal, please contact Ron Pentkowski at (802) 655-1203.

This report shall not be reproduced, except in full, without the written approval of the laboratory. This report is sequentially numbered starting with page 001 and ending with page 131.



SEVERN TRENT SERVICES

STL Burlington

I certify that this package is in compliance with the NELAC requirements, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Director or his designee, as verified by the following signature.

Sincerely,

Christopher A. Ouellette
Laboratory Director

RAP/mpg
Enclosure

0001-B last alpha

SEVERN TRENT SERVICES

Severn Trent Laboratories, Inc.

SAMPLE DATA SUMMARY PACKAGE

FOR TO-14A

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

ACCANA SAMPLE NO.

A2IA01170108

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 81391

Matrix: (soil/water) AIR Lab Sample ID: 442843

Sample wt/vol: 200 (g/mL) ML Lab File ID: 442843

Level: (low/med) LOW Date Received: 01/19/01

% Moisture: not dec. _____ Date Analyzed: 01/24/01

GC Column: DB-1 ID: 0.35 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) PPBV	Q
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl Chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-09-2	Methylene Chloride	0.97	
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
56-23-5	Carbon Tetrachloride	0.50	U
71-43-2	Benzene	0.74	
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-88-3	Toluene	1.2	
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
1330-20-7	Xylene (total)	2.2	
100-42-5	Styrene	0.50	U
1330-20-7	Xylene (m,p)	1.5	
95-47-6	Xylene (o)	0.75	
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

ACCANA SAMPLE NO.

CAEA01170108

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 81391

Matrix: (soil/water) AIR Lab Sample ID: 442844

Sample wt/vol: 200 (g/mL) ML Lab File ID: 442844

Level: (low/med) LOW Date Received: 01/19/01

% Moisture: not dec. _____ Date Analyzed: 01/24/01

GC Column: DB-1 ID: 0.35 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) PPBV	Q
74-87-3	Chloromethane	0.64	
75-01-4	Vinyl Chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.59	
75-09-2	Methylene Chloride	1.1	
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
56-23-5	Carbon Tetrachloride	0.50	U
71-43-2	Benzene	1.2	
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-88-3	Toluene	18	
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	39	
1330-20-7	Xylene (total)	21	
100-42-5	Styrene	0.50	U
1330-20-7	Xylene (m,p)	21	
95-47-6	Xylene (o)	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

ACCANA SAMPLE NO.

CAIA01170108

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 81391

Matrix: (soil/water) AIR Lab Sample ID: 442842

Sample wt/vol: 200 (g/mL) ML Lab File ID: 442842

Level: (low/med) LOW Date Received: 01/19/01

% Moisture: not dec. _____ Date Analyzed: 01/24/01

GC Column: DB-1 ID: 0.35 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) PPBV	Q
74-87-3	Chloromethane	0.72	
75-01-4	Vinyl Chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-09-2	Methylene Chloride	1.1	
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
56-23-5	Carbon Tetrachloride	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-88-3	Toluene	1.1	
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
1330-20-7	Xylene (total)	0.50	U
100-42-5	Styrene	0.50	U
1330-20-7	Xylene (m,p)	0.50	U
95-47-6	Xylene (o)	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.51	
95-50-1	1,2-Dichlorobenzene	0.50	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ABLKO9

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 81391

Matrix: (soil/water) AIR Lab Sample ID: ABLKO9

Sample wt/vol: 200 (g/mL) ML Lab File ID: CEB001I

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

% Moisture: not dec. _____ Date Analyzed: 01/24/01

GC Column: DB-1 ID: 0.35 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) PPBV	Q
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl Chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-09-2	Methylene Chloride	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
56-23-5	Carbon Tetrachloride	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-88-3	Toluene	0.50	U
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
1330-20-7	Xylene (total)	0.50	U
100-42-5	Styrene	0.50	U
1330-20-7	Xylene (m,p)	0.50	U
95-47-6	Xylene (o)	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

STLVT SAMPLE NO.

L4_ICVLCS

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 81391

Matrix: (soil/water) AIR Lab Sample ID: L4_ICVLCS

Sample wt/vol: 200 (g/mL) ML Lab File ID: CE010Q

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

% Moisture: not dec. _____ Date Analyzed: 12/18/00

GC Column: DB-1 ID: 0.35 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) PPBV	Q
74-87-3	Chloromethane	9.5	
75-01-4	Vinyl Chloride	9.5	
74-83-9	Bromomethane	9.1	
75-00-3	Chloroethane	9.0	
75-69-4	Trichlorofluoromethane	9.4	
75-09-2	Methylene Chloride	8.7	
75-34-3	1,1-Dichloroethane	9.4	
156-59-2	cis-1,2-Dichloroethene	9.4	
67-66-3	Chloroform	9.4	
71-55-6	1,1,1-Trichloroethane	9.1	
56-23-5	Carbon Tetrachloride	9.6	
71-43-2	Benzene	9.3	
107-06-2	1,2-Dichloroethane	9.7	
79-01-6	Trichloroethene	9.7	
78-87-5	1,2-Dichloropropane	9.5	
10061-01-5	cis-1,3-Dichloropropene	9.5	
108-88-3	Toluene	9.6	
10061-02-6	trans-1,3-Dichloropropene	8.6	
79-00-5	1,1,2-Trichloroethane	9.7	
127-18-4	Tetrachloroethene	9.2	
108-90-7	Chlorobenzene	9.3	
100-41-4	Ethylbenzene	9.6	
1330-20-7	Xylene (total)	29	
100-42-5	Styrene	11	
1330-20-7	Xylene (m,p)	19	
95-47-6	Xylene (o)	9.6	
79-34-5	1,1,2,2-Tetrachloroethane	9.9	
541-73-1	1,3-Dichlorobenzene	10	
106-46-7	1,4-Dichlorobenzene	10	
95-50-1	1,2-Dichlorobenzene	10	

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

O9_LCS

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 81391

Matrix: (soil/water) AIR Lab Sample ID: O9_LCS

Sample wt/vol: 200 (g/mL) ML Lab File ID: CE010IQ

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

% Moisture: not dec. _____ Date Analyzed: 01/24/01

GC Column: DB-1 ID: 0.35 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) PPBV	Q
74-87-3	Chloromethane	7.6	
75-01-4	Vinyl Chloride	8.0	
74-83-9	Bromomethane	8.3	
75-00-3	Chloroethane	8.4	
75-69-4	Trichlorofluoromethane	10	
75-09-2	Methylene Chloride	8.6	
75-34-3	1,1-Dichloroethane	9.6	
156-59-2	cis-1,2-Dichloroethene	9.6	
67-66-3	Chloroform	9.7	
71-55-6	1,1,1-Trichloroethane	10	
56-23-5	Carbon Tetrachloride	10	
71-43-2	Benzene	9.5	
107-06-2	1,2-Dichloroethane	10	
79-01-6	Trichloroethene	9.6	
78-87-5	1,2-Dichloropropane	9.8	
10061-01-5	cis-1,3-Dichloropropene	11	
108-88-3	Toluene	9.8	
10061-02-6	trans-1,3-Dichloropropene	10	
79-00-5	1,1,2-Trichloroethane	9.8	
127-18-4	Tetrachloroethene	9.4	
108-90-7	Chlorobenzene	9.4	
100-41-4	Ethylbenzene	10	
1330-20-7	Xylene (total)	29	
100-42-5	Styrene	12	
1330-20-7	Xylene (m,p)	19	
95-47-6	Xylene (o)	9.8	
79-34-5	1,1,2,2-Tetrachloroethane	10	
541-73-1	1,3-Dichlorobenzene	11	
106-46-7	1,4-Dichlorobenzene	9.4	
95-50-1	1,2-Dichlorobenzene	10	

FORM 3
AIR VOLATILE LAB CONTROL SAMPLE

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 81391

Matrix Spike - STLVT Sample No.: L4_ICVLCS

COMPOUND	SPIKE ADDED (ppbv)	SAMPLE CONCENTRATION (ug/L)	LCS CONCENTRATION (ppbv)	LCS % REC #	QC. LIMITS REC.
Chloromethane	10		9.5	95	70-130
Vinyl Chloride	10		9.5	95	70-130
Bromomethane	10		9.1	91	70-130
Chloroethane	10		9.0	90	70-130
Trichlorofluoromethane	10		9.4	94	70-130
Methylene Chloride	10		8.7	87	70-130
1,1-Dichloroethane	10		9.4	94	70-130
cis-1,2-Dichloroethene	10		9.4	94	70-130
Chloroform	10		9.4	94	70-130
1,1,1-Trichloroethane	10		9.1	91	70-130
Carbon Tetrachloride	10		9.6	96	70-130
Benzene	10		9.3	93	70-130
1,2-Dichloroethane	10		9.7	97	70-130
Trichloroethene	10		9.7	97	70-130
1,2-Dichloropropane	10		9.5	95	70-130
cis-1,3-Dichloropropene	10		9.5	95	70-130
Toluene	10		9.6	96	70-130
trans-1,3-Dichloroprope	10		8.6	86	70-130
1,1,2-Trichloroethane	10		9.7	97	70-130
Tetrachloroethene	10		9.2	92	70-130
Chlorobenzene	10		9.3	93	70-130
Ethylbenzene	10		9.6	96	70-130
Styrene	10		11	110	70-130
Xylene (m,p)	20		19	95	70-130
Xylene (o)	10		9.6	96	70-130
1,1,2,2-Tetrachloroetha	10		9.9	99	70-130
1,3-Dichlorobenzene	10		10	100	70-130
1,4-Dichlorobenzene	10		10	100	70-130

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

* Values outside of QC limits

COMMENTS: _____

FORM 3
AIR VOLATILE LAB CONTROL SAMPLE

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 81391

Matrix Spike - STLVT Sample No.: L4_ICVLCS

COMPOUND	SPIKE ADDED (ppbv)	SAMPLE CONCENTRATION (ug/L)	LCS CONCENTRATION (ppbv)	LCS % REC #	QC. LIMITS REC.
1,2-Dichlorobenzene	10		10	100	70-130

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

* Values outside of QC limits

RPD: 0 out of 0 outside limits
Spike Recovery: 0 out of 29 outside limits

COMMENTS: _____

FORM 3
AIR VOLATILE LAB CONTROL SAMPLE

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 81391

Matrix Spike - Sample No.: 09_LCS

COMPOUND	SPIKE ADDED (ppbv)	SAMPLE CONCENTRATION (ug/L)	LCS CONCENTRATION (ppbv)	LCS % REC #	QC. LIMITS REC.
Chloromethane	10		7.6	76	70-130
Vinyl Chloride	10		8.0	80	70-130
Bromomethane	10		8.3	83	70-130
Chloroethane	10		8.4	84	70-130
Trichlorofluoromethane	10		10	100	70-130
Methylene Chloride	10		8.6	86	70-130
1,1-Dichloroethane	10		9.6	96	70-130
cis-1,2-Dichloroethene	10		9.6	96	70-130
Chloroform	10		9.7	97	70-130
1,1,1-Trichloroethane	10		10	100	70-130
Carbon Tetrachloride	10		10	100	70-130
Benzene	10		9.5	95	70-130
1,2-Dichloroethane	10		10	100	70-130
Trichloroethene	10		9.6	96	70-130
1,2-Dichloropropane	10		9.8	98	70-130
cis-1,3-Dichloropropene	10		11	110	70-130
Toluene	10		9.8	98	70-130
trans-1,3-Dichloroprope	10		10	100	70-130
1,1,2-Trichloroethane	10		9.8	98	70-130
Tetrachloroethene	10		9.4	94	70-130
Chlorobenzene	10		9.4	94	70-130
Ethylbenzene	10		10	100	70-130
Styrene	10		12	120	70-130
Xylene (m,p)	20		19	95	70-130
Xylene (o)	10		9.8	98	70-130
1,1,2,2-Tetrachloroetha	10		10	100	70-130
1,3-Dichlorobenzene	10		11	110	70-130
1,4-Dichlorobenzene	10		9.4	94	70-130

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

* Values outside of QC limits

COMMENTS: _____

FORM 3
AIR VOLATILE LAB CONTROL SAMPLE

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 81391

Matrix Spike - Sample No.: 09_LCS

COMPOUND	SPIKE ADDED (ppbv)	SAMPLE CONCENTRATION (ug/L)	LCS CONCENTRATION (ppbv)	LCS % REC #	QC. LIMITS REC.
1,2-Dichlorobenzene	10		10	100	70-130

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

* Values outside of QC limits

RPD: 0 out of 0 outside limits
Spike Recovery: 0 out of 29 outside limits

COMMENTS: _____

FORM 4
VOLATILE METHOD BLANK SUMMARY

CLIENT SAMPLE NO.

ABLKO9

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 81391

Lab File ID: CEB001I Lab Sample ID: ABLKO9

Date Analyzed: 01/24/01 Time Analyzed: 0910

GC Column: DB-1 ID: 0.35 (mm) Heated Purge: (Y/N) N

Instrument ID: W

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

	SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	O9_LCS	O9_LCS	CE010IQ	0839
02	CAIA01170108	442842	442842	0959
03	A2IA01170108	442843	442843	1033
04	CAEA01170108	442844	442844	1109
05				
06				
07				
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COMMENTS:

FORM 5
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 81391

Lab File ID: CE001P BFB Injection Date: 12/18/00

Instrument ID: W BFB Injection Time: 0805

GC Column: DB-1 ID: 0.32 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	21.8
75	30.0 - 66.0% of mass 95	48.6
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.4
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	50.0 - 120.0% of mass 95	68.9
175	4.0 - 9.0% of mass 174	5.0 (7.3)1
176	93.0 - 101.0% of mass 174	66.2 (96.2)1
177	5.0 - 9.0% of mass 176	4.4 (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	ASTD020	ASTD020	CE020	12/18/00	1004
02	ASTD040	ASTD040	CE040	12/18/00	1038
03	ASTD005	ASTD005	CE005	12/18/00	1114
04	ASTD0005	ASTD0005	CE0005I2	12/18/00	1223
05	ASTD010	ASTD010	CE010I2	12/18/00	1344
06	L4_ICVLCS	L4_ICVLCS	CE010Q	12/18/00	1417
07					
08					
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FORM 5
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 81391

Lab File ID: CE010P BFB Injection Date: 01/24/01

Instrument ID: W BFB Injection Time: 0724

GC Column: DB-1 ID: 0.32 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	21.7
75	30.0 - 66.0% of mass 95	48.6
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.8
173	Less than 2.0% of mass 174	0.1 (0.2)1
174	50.0 - 120.0% of mass 95	68.6
175	4.0 - 9.0% of mass 174	4.9 (7.1)1
176	93.0 - 101.0% of mass 174	65.7 (95.7)1
177	5.0 - 9.0% of mass 176	4.7 (7.1)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	ASTD010	ASTD010	CE010I	01/24/01	0806
02	O9_LCS	O9_LCS	CE010IQ	01/24/01	0839
03	ABLKO9	ABLKO9	CEB001I	01/24/01	0910
04	CAIA01170108	442842	442842	01/24/01	0959
05	A2IA01170108	442843	442843	01/24/01	1033
06	CAEA01170108	442844	442844	01/24/01	1109
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6A
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 81391

Instrument ID: W Calibration Date(s): 12/18/00 12/18/00

Heated Purge: (Y/N) N Calibration Time(s): 1004 1344

GC Column: DB-1 ID: 0.35 (mm)

LAB FILE ID: RRF0.5=CE0005I2 RRF5 =CE005
RRF10 =CE010I2 RRF20 =CE020 RRF40 =CE040

COMPOUND		RRF0.5	RRF5	RRF10	RRF20	RRF40	$\overline{RRF}$	% RSD
Chloromethane	*	0.676	0.647	0.614	0.523	0.506	0.593	12.7*
Vinyl Chloride		0.684	0.692	0.670	0.585	0.560	0.638	9.6
Bromomethane		0.930	0.929	0.813	0.716	0.726	0.823	12.7
Chloroethane		0.428	0.438	0.397	0.338	0.364	0.393	10.7
Trichlorofluoromethane		2.520	2.478	2.222	2.042	1.935	2.239	11.5
Methylene Chloride		1.446	0.967	0.906	0.773	0.762	0.971	28.8
1,1-Dichloroethane	*	1.704	1.696	1.495	1.291	1.260	1.489	14.3*
cis-1,2-Dichloroethene		1.192	1.248	1.102	1.064	0.950	1.111	10.4
Chloroform		2.265	2.167	1.952	1.815	1.642	1.968	12.9
1,1,1-Trichloroethane		2.100	2.091	1.801	1.750	1.609	1.870	11.6
Carbon Tetrachloride		0.491	0.445	0.427	0.381	0.360	0.421	12.3
Benzene		0.698	0.610	0.551	0.514	0.480	0.571	15.1
1,2-Dichloroethane		1.482	1.427	1.286	1.240	1.175	1.322	9.7
Trichloroethene		0.331	0.301	0.273	0.249	0.232	0.277	14.3
1,2-Dichloropropane		0.255	0.231	0.210	0.194	0.181	0.214	13.8
cis-1,3-Dichloropropene		0.246	0.253	0.258	0.256	0.263	0.255	2.5
Toluene		0.421	0.442	0.404	0.361	0.354	0.396	9.6
trans-1,3-Dichloropropene		0.172	0.182	0.166	0.189	0.194	0.181	6.3
1,1,2-Trichloroethane		0.264	0.248	0.227	0.206	0.192	0.227	12.9
Tetrachloroethene		0.358	0.342	0.309	0.279	0.272	0.312	12.1
Chlorobenzene	*	0.660	0.562	0.521	0.462	0.445	0.530	16.3*
Ethylbenzene		1.003	1.015	0.938	0.819	0.788	0.913	11.4
Xylene (total)		1.097	1.031	0.992	0.889	0.902	0.982	8.9
Styrene		0.363	0.243	0.334	0.360	0.343	0.329	15.0
Xylene (m,p)		0.368	0.347	0.334	0.298	0.302	0.330	9.0
Xylene (o)		0.362	0.337	0.324	0.293	0.297	0.323	8.9
1,1,2,2-Tetrachloroethane		0.661	0.542	0.513	0.459	0.451	0.525	16.1
1,3-Dichlorobenzene		0.478	0.424	0.398	0.398	0.434	0.426	7.8
1,4-Dichlorobenzene		0.558	0.374	0.408	0.405	0.433	0.436	16.4
1,2-Dichlorobenzene		0.394	0.306	0.319	0.330	0.366	0.343	10.6

* Compounds with required minimum RRF and maximim %RSD values.
All other compounds must meet a minimim RRF of 0.010.

FORM 7
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 81391

Instrument ID: W Calibration Date: 01/24/01 Time: 0806

Lab File ID: CE010I Init. Calib. Date(s): 12/18/00 12/18/00

Heated Purge: (Y/N) N Init. Calib. Times: 1004 1344

GC Column: DB-1 ID: 0.35 (mm)

COMPOUND	$\overline{RRF}$	RRF10	MIN RRF	%D	MAX %D	
Chloromethane	0.593	0.370	0.1	37.6	30.0	<-
Vinyl Chloride	0.638	0.432	0.01	32.3	30.0	<-
Bromomethane	0.823	0.627	0.01	23.8	30.0	
Chloroethane	0.393	0.288	0.01	26.7	30.0	
Trichlorofluoromethane	2.239	2.371	0.01	5.9	30.0	
Methylene Chloride	0.971	0.864	0.01	11.0	30.0	
1,1-Dichloroethane	1.489	1.473	0.1	1.1	30.0	
cis-1,2-Dichloroethene	1.111	1.111	0.01	0.0	30.0	
Chloroform	1.968	2.082	0.01	5.8	30.0	
1,1,1-Trichloroethane	1.870	1.758	0.01	6.0	30.0	
Carbon Tetrachloride	0.421	0.474	0.01	12.6	30.0	
Benzene	0.571	0.561	0.01	1.8	30.0	
1,2-Dichloroethane	1.322	1.284	0.01	2.9	30.0	
Trichloroethene	0.277	0.284	0.01	2.5	30.0	
1,2-Dichloropropane	0.214	0.222	0.01	3.7	30.0	
cis-1,3-Dichloropropene	0.255	0.286	0.01	12.2	30.0	
Toluene	0.396	0.394	0.01	0.5	30.0	
trans-1,3-Dichloropropene	0.181	0.193	0.01	6.6	30.0	
1,1,2-Trichloroethane	0.227	0.232	0.01	2.2	30.0	
Tetrachloroethene	0.312	0.304	0.01	2.6	30.0	
Chlorobenzene	0.530	0.498	0.3	6.0	30.0	
Ethylbenzene	0.913	0.924	0.01	1.2	30.0	
Xylene (total)	0.982	0.977	0.01	0.5	30.0	
Styrene	0.329	0.389	0.01	18.2	30.0	
Xylene (m,p)	0.330	0.326	0.01	1.2	30.0	
Xylene (o)	0.323	0.325	0.01	0.6	30.0	
1,1,2,2-Tetrachloroethane	0.525	0.544	0.01	3.6	30.0	
1,3-Dichlorobenzene	0.426	0.426	0.01	0.0	30.0	
1,4-Dichlorobenzene	0.436	0.375	0.01	14.0	30.0	
1,2-Dichlorobenzene	0.343	0.336	0.01	2.0	30.0	

FORM 8
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 81391

Lab File ID (Standard): CE010I Date Analyzed: 01/24/01

Instrument ID: W Time Analyzed: 0806

GC Column: DB-1 ID: 0.35 (mm) Heated Purge: (Y/N) N

		IS1 (BCM) AREA	#	RT	#	IS2 (CBZ) AREA	#	RT	#	IS3 (DFB) AREA	#	RT	#
	12 HOUR STD	317398		7.70		1322268		11.84		1202471		9.00	
	UPPER LIMIT	761755		8.03		3173443		12.17		2885930		9.33	
	LOWER LIMIT	126959		7.37		528907		11.51		480988		8.67	
	CLIENT SAMPLE NO.												
01	O9_LCS	332273		7.67		1392881		11.84		1303113		8.99	
02	ABLKO9	324614		7.65		1537888		11.82		1504656		8.97	
03	CAIA01170108	323569		7.62		1339815		11.81		1463631		8.96	
04	A2IA01170108	268938		7.62		1162438		11.81		1250817		8.96	
05	CAEA01170108	351656		7.68		1486195		11.84		1464190		9.00	
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IS1 (BCM) = Bromochloromethane
IS2 (CBZ) = Chlorobenzene-d5
IS3 (DFB) = 1,4-Difluorobenzene

AREA UPPER LIMIT = +140% of internal standard area
AREA LOWER LIMIT = - 60% of internal standard area
RT UPPER LIMIT = + 0.33 minutes of internal standard RT
RT LOWER LIMIT = - 0.33 minutes of internal standard RT

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

81391

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SEVERN TRENT SERVICES

STL Burlington
208 South Park Drive
Suite 1
Colchester, VT 05446

Tel: 802 655 1203
Fax: 802 655 1248
www.stl-inc.com

January 29, 2001

Ms. Bonnie Hogue
Accura Analytical Laboratories
6017 Financial Drive
Norcross, GA 30071

Re: Laboratory Project No. 20031
Case: 20031; SDG: 81391

Dear Ms. Hogue:

Enclosed are the analytical results of samples received intact by Severn Trent Laboratories on January 19, 2001. Laboratory numbers have been assigned and designated as follows:

Lab ID	Client Sample ID	Sample Date	Sample Matrix
	Received: 01/19/01	ETR No: 81391	
442842	029ACAIA01170108	01/17/01	Air
442843	029ACA2IA01170108	01/17/01	Air
442844	029ACAEA01170108	01/17/01	Air

Method TO-14A Modified-Volatile Organics;
Please note that due to a limitation of characters inherent in the reporting software, some characters of the client identification above were truncated.

The laboratory noted no exceptions to method quality control requirements for this analytical work.

Please note that client specific matrix spike/matrix spike duplicate samples were not performed, nor requested with this sample delivery group.

If there are any questions regarding this submittal, please contact Ron Pentkowski at (802) 655-1203.

This report shall not be reproduced, except in full, without the written approval of the laboratory. This report is sequentially numbered starting with page 001 and ending with page 131.

SEVERN TRENT SERVICES

STL Burlington

I certify that this package is in compliance with the NELAC requirements, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Director or his designee, as verified by the following signature.

Sincerely,

Christopher A. Ouellette
Laboratory Director

RAP/mpg
Enclosure

0001-B last pg, rha

SEVERN TRENT SERVICES

STL Burlington

The following Qualifiers may be used when reporting any Organic parameters analyzed by Gas Chromatography/mass Spectometry (GCMS). Any additional qualifiers used in the reports will be described in the case narrative. These flags are based on the EPA Contract Laboratory Program statement of work.

GC/MS Qualifiers

A- The reported Tentatively Identified Compound (TIC) is a suspected Aldol-condensation product.

B- The reported analyte was detected in the associated method blank as well as the sample.

D - This flag identifies all compounds identified in an analysis at a secondary dilution factor. This flag alerts data users that any discrepancies between the concentrations reported for the dilutions may be due to dilution of the sample or extract. It additionally indicates that spike recoveries may have been diluted below quantifiable levels.

E- Compound quantitation is above the instrument's calibration range for this analysis.

J - Indicates an estimated value. This flag is used when the result is less than the reporting limit, but > ½ reporting limit.

U- Indicates compound was analyzed for but not detected above the reporting limit.

X,Y,Z - Laboratory defined flags. These flags must be fully described, and such description attached to the Sample Data Summary Package and the case Narrative. Begin by using "X" and go on to "Y" as necessary. These flags may also be used to combine several flags, as needed.

CH2M Hill Constructors, Inc.
115 Perimeter Center Place, Suite 700
Atlanta, GA 30346-1278
Tel No (770) 604-9182 ; Fax No (770) 604-9282

CHAIN-OF-CUSTODY RECORD

COC NUMBER
154282-10

PROJECT NAME	PROJECT NUMBER	LAB NAME AND CONTACT	FAX AND MAIL REPORTS/EDD TO RECIPIENT 1 (Name and Company)	RECIPIENT 1 (Address, Tel No , and Fax No)
N.A.S Cecil Field 103rd Street	154282	Severn Trent Laboratories/ Ron Pentkowski	Bonnie Hogue Accura Analytical Laboratory	6017 Financial Drive Norcross, GA 30071 (770) 449-8800 Fax:(770) 449-5477
PROJECT PHASE/SITE/TASK	CTO OR DO NUMBER	LAB PO NUMBER	FAX AND MAIL REPORTS/EDD TO RECIPIENT 2 (Name and Company)	RECIPIENT 2 (Address, Tel No , and Fax No)
103rd Street Monthly Air	0029	1760	Jennifer Zimmerman / J.A Jones Env. Services	6219 Authority Ave. Building 1 Jacksonville, FL 32215 (904) 7774812 FAX: (904) 7774262
PROJECT CONTACT	PROJECT TEL NO AND FAX NO	LAB TEL NO AND FAX NO	FAX AND MAIL REPORTS/EDD TO RECIPIENT 3 (Name and Company)	RECIPIENT 3 (Address, Tel No , and Fax No)
David Garrity	Ph:(904)777-4812 Fax:(904) 777-4262	Ph:(802) 655-1203	Jeff Wilmoth / CH2M Hill Constuctors, Inc.	115 Perimeter Center Place, N.E. Suite 700 Atlanta, GA 30346 (770)604-9182 Ext.561 FAX:604-9282

ITEM	SAMPLE IDENTIFIER	SAMPLE DESCRIPTION/LOCATION	MATRIX (see codes on back)	DATE COLLECTED	TIME COLLECTED	DATA PKG LEVEL (see codes on back)	TAT (calendar days)	ANALYSES REQUIRED (Include Method Numbers) Volatiles by 18 / TO 14									SAMPLE TYPE (see codes on back)	COMMENTS/ SCREENING READINGS	LAB ID
1	029-ACA-I-A-0117-01-08	Pre Carbon Units	A	01/17/01	15:15	III/B	7	1									Grab	Summa Canister	
2	029-ACA2-I-A-0117-01-08	Mid Carbon Units	A	01/17/01	15:20	III/B	7	1									Grab	Summa Canister	
3	029-ACA-E-A-0117-01-08	Post Carbon Units	A	01/17/01	15:25	III/B	7	1									Grab	Summa Canister	00803
4																			
5																			
6																			
7																			
8																			
9																			
10																			

SAMPLER(S) AND COMPANY (please print)	COURIER AND SHIPPING NUMBER	SAMPLES TEMPERATURE AND CONDITION UPON RECEIPT
Randy Dumaop / Scott Sloan J.A. Jones Environmental Services	Federal Express TRK# 790448318301	

RELINQUISHED BY	DATE	TIME	RECEIVED BY	DATE	TIME
Printed Name and Signature			Printed Name and Signature		
R.Dumaop	1/17/01	18:00	Federal Express	1/17/01	18:00
Printed Name and Signature			Printed Name and Signature		
Printed Name and Signature			Printed Name and Signature		
			Frank Bassett	1-19-01	0950

Distribution [ ] Original - Laboratory (To be returned with Analytical Report), [ ] Copy 1 - Project File, [ ] Copy 2 - PMO

SEVERN TRENT SERVICES

Severn Trent Laboratories, Inc.

METHOD TO-14A
VOLATILE ORGANIC ANALYSIS

QC SUMMARY

FORM 3
AIR VOLATILE LAB CONTROL SAMPLE

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 81391

Matrix Spike - STLVT Sample No.: L4_ICVLCS

COMPOUND	SPIKE ADDED (ppbv)	SAMPLE CONCENTRATION (ug/L)	LCS CONCENTRATION (ppbv)	LCS % REC #	QC. LIMITS REC.
Chloromethane	10		9.5	95	70-130
Vinyl Chloride	10		9.5	95	70-130
Bromomethane	10		9.1	91	70-130
Chloroethane	10		9.0	90	70-130
Trichlorofluoromethane	10		9.4	94	70-130
Methylene Chloride	10		8.7	87	70-130
1,1-Dichloroethane	10		9.4	94	70-130
cis-1,2-Dichloroethene	10		9.4	94	70-130
Chloroform	10		9.4	94	70-130
1,1,1-Trichloroethane	10		9.1	91	70-130
Carbon Tetrachloride	10		9.6	96	70-130
Benzene	10		9.3	93	70-130
1,2-Dichloroethane	10		9.7	97	70-130
Trichloroethene	10		9.7	97	70-130
1,2-Dichloropropane	10		9.5	95	70-130
cis-1,3-Dichloropropene	10		9.5	95	70-130
Toluene	10		9.6	96	70-130
trans-1,3-Dichloroprope	10		8.6	86	70-130
1,1,2-Trichloroethane	10		9.7	97	70-130
Tetrachloroethene	10		9.2	92	70-130
Chlorobenzene	10		9.3	93	70-130
Ethylbenzene	10		9.6	96	70-130
Styrene	10		11	110	70-130
Xylene (m,p)	20		19	95	70-130
Xylene (o)	10		9.6	96	70-130
1,1,2,2-Tetrachloroetha	10		9.9	99	70-130
1,3-Dichlorobenzene	10		10	100	70-130
1,4-Dichlorobenzene	10		10	100	70-130

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

* Values outside of QC limits

COMMENTS: _____

FORM 3
AIR VOLATILE LAB CONTROL SAMPLE

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 81391

Matrix Spike - STLVT Sample No.: L4_ICVLCS

COMPOUND	SPIKE ADDED (ppbv)	SAMPLE CONCENTRATION (ug/L)	LCS CONCENTRATION (ppbv)	LCS % REC #	QC. LIMITS REC.
1,2-Dichlorobenzene	10		10	100	70-130

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

* Values outside of QC limits

RPD: 0 out of 0 outside limits
Spike Recovery: 0 out of 29 outside limits

COMMENTS: _____

FORM 3
AIR VOLATILE LAB CONTROL SAMPLE

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 81391

Matrix Spike - Sample No.: 09_LCS

COMPOUND	SPIKE ADDED (ppbv)	SAMPLE CONCENTRATION (ug/L)	LCS CONCENTRATION (ppbv)	LCS % REC #	QC. LIMITS REC.
Chloromethane	10		7.6	76	70-130
Vinyl Chloride	10		8.0	80	70-130
Bromomethane	10		8.3	83	70-130
Chloroethane	10		8.4	84	70-130
Trichlorofluoromethane	10		10	100	70-130
Methylene Chloride	10		8.6	86	70-130
1,1-Dichloroethane	10		9.6	96	70-130
cis-1,2-Dichloroethene	10		9.6	96	70-130
Chloroform	10		9.7	97	70-130
1,1,1-Trichloroethane	10		10	100	70-130
Carbon Tetrachloride	10		10	100	70-130
Benzene	10		9.5	95	70-130
1,2-Dichloroethane	10		10	100	70-130
Trichloroethene	10		9.6	96	70-130
1,2-Dichloropropane	10		9.8	98	70-130
cis-1,3-Dichloropropene	10		11	110	70-130
Toluene	10		9.8	98	70-130
trans-1,3-Dichloroprope	10		10	100	70-130
1,1,2-Trichloroethane	10		9.8	98	70-130
Tetrachloroethene	10		9.4	94	70-130
Chlorobenzene	10		9.4	94	70-130
Ethylbenzene	10		10	100	70-130
Styrene	10		12	120	70-130
Xylene (m,p)	20		19	95	70-130
Xylene (o)	10		9.8	98	70-130
1,1,2,2-Tetrachloroetha	10		10	100	70-130
1,3-Dichlorobenzene	10		11	110	70-130
1,4-Dichlorobenzene	10		9.4	94	70-130

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

* Values outside of QC limits

COMMENTS: _____

FORM 3
AIR VOLATILE LAB CONTROL SAMPLE

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 81391

Matrix Spike - Sample No.: 09_LCS

COMPOUND	SPIKE ADDED (ppbv)	SAMPLE CONCENTRATION (ug/L)	LCS CONCENTRATION (ppbv)	LCS % REC #	QC. LIMITS REC.
1,2-Dichlorobenzene	10		10	100	70-130

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

* Values outside of QC limits

RPD: 0 out of 0 outside limits
Spike Recovery: 0 out of 29 outside limits

COMMENTS: _____

FORM 4
VOLATILE METHOD BLANK SUMMARY

CLIENT SAMPLE NO.

ABLKO9

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 81391

Lab File ID: CEB001I Lab Sample ID: ABLKO9

Date Analyzed: 01/24/01 Time Analyzed: 0910

GC Column: DB-1 ID: 0.35 (mm) Heated Purge: (Y/N) N

Instrument ID: W

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

	SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	O9_LCS	O9_LCS	CE010IQ	0839
02	CAIA01170108	442842	442842	0959
03	A2IA01170108	442843	442843	1033
04	CAEA01170108	442844	442844	1109
05				
06				
07				
08				
09				
10				
11				
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30				

COMMENTS:

FORM 5
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 81391

Lab File ID: CE001P BFB Injection Date: 12/18/00

Instrument ID: W BFB Injection Time: 0805

GC Column: DB-1 ID: 0.32 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	21.8
75	30.0 - 66.0% of mass 95	48.6
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.4
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	50.0 - 120.0% of mass 95	68.9
175	4.0 - 9.0% of mass 174	5.0 (7.3)1
176	93.0 - 101.0% of mass 174	66.2 (96.2)1
177	5.0 - 9.0% of mass 176	4.4 (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	ASTD020	ASTD020	CE020	12/18/00	1004
02	ASTD040	ASTD040	CE040	12/18/00	1038
03	ASTD005	ASTD005	CE005	12/18/00	1114
04	ASTD0005	ASTD0005	CE0005I2	12/18/00	1223
05	ASTD010	ASTD010	CE010I2	12/18/00	1344
06	L4_ICVLCS	L4_ICVLCS	CE010Q	12/18/00	1417
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

FORM 5
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 81391

Lab File ID: CE010P BFB Injection Date: 01/24/01

Instrument ID: W BFB Injection Time: 0724

GC Column: DB-1 ID: 0.32 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	21.7
75	30.0 - 66.0% of mass 95	48.6
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.8
173	Less than 2.0% of mass 174	0.1 (0.2)1
174	50.0 - 120.0% of mass 95	68.6
175	4.0 - 9.0% of mass 174	4.9 (7.1)1
176	93.0 - 101.0% of mass 174	65.7 (95.7)1
177	5.0 - 9.0% of mass 176	4.7 (7.1)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	ASTD010	ASTD010	CE010I	01/24/01	0806
02	O9_LCS	O9_LCS	CE010IQ	01/24/01	0839
03	ABLKO9	ABLKO9	CEB001I	01/24/01	0910
04	CAIA01170108	442842	442842	01/24/01	0959
05	A2IA01170108	442843	442843	01/24/01	1033
06	CAEA01170108	442844	442844	01/24/01	1109
07					
08					
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19					
20					
21					
22					

FORM 8
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 81391

Lab File ID (Standard): CE010I Date Analyzed: 01/24/01

Instrument ID: W Time Analyzed: 0806

GC Column: DB-1 ID: 0.35 (mm) Heated Purge: (Y/N) N

		IS1 (BCM) AREA	#	RT	#	IS2 (CBZ) AREA	#	RT	#	IS3 (DFB) AREA	#	RT	#
	12 HOUR STD	317398		7.70		1322268		11.84		1202471		9.00	
	UPPER LIMIT	761755		8.03		3173443		12.17		2885930		9.33	
	LOWER LIMIT	126959		7.37		528907		11.51		480988		8.67	
	CLIENT SAMPLE NO.												
01	O9_LCS	332273		7.67		1392881		11.84		1303113		8.99	
02	ABLKO9	324614		7.65		1537888		11.82		1504656		8.97	
03	CAIA01170108	323569		7.62		1339815		11.81		1463631		8.96	
04	A2IA01170108	268938		7.62		1162438		11.81		1250817		8.96	
05	CAEA01170108	351656		7.68		1486195		11.84		1464190		9.00	
06													
07													
08													
09													
10													
11													
12													
13													
14													
15													
16													
17													
18													
19													
20													
21													
22													

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

AREA UPPER LIMIT = +140% of internal standard area
AREA LOWER LIMIT = - 60% of internal standard area
RT UPPER LIMIT = + 0.33 minutes of internal standard RT
RT LOWER LIMIT = - 0.33 minutes of internal standard RT

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

SEVERN TRENT SERVICES

Severn Trent Laboratories, Inc.

METHOD TO-14A
VOLATILE ORGANIC ANALYSIS

SUPPORTIVE DOCUMENTATION

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

ACCANA SAMPLE NO.

A2IA01170108

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 81391

Matrix: (soil/water) AIR Lab Sample ID: 442843

Sample wt/vol: 200 (g/mL) ML Lab File ID: 442843

Level: (low/med) LOW Date Received: 01/19/01

% Moisture: not dec. _____ Date Analyzed: 01/24/01

GC Column: DB-1 ID: 0.35 (mm) Dilution Factor: 1.0

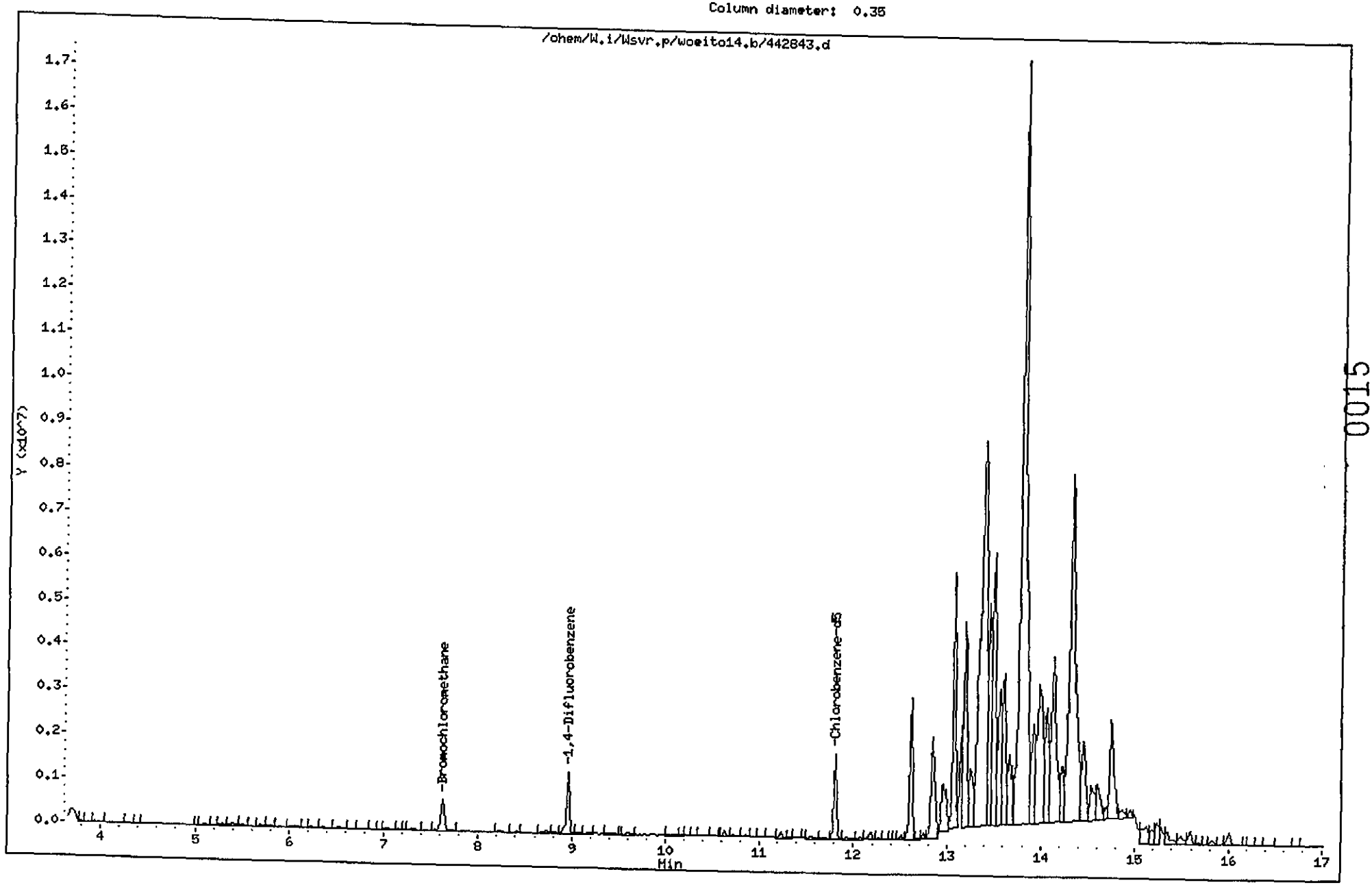
Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) PPBV	Q
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl Chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-09-2	Methylene Chloride	0.97	
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
56-23-5	Carbon Tetrachloride	0.50	U
71-43-2	Benzene	0.74	
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-88-3	Toluene	1.2	
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
1330-20-7	Xylene (total)	2.2	
100-42-5	Styrene	0.50	U
1330-20-7	Xylene (m,p)	1.5	
95-47-6	Xylene (o)	0.75	
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U

Data File: /ohem/W.i/Wsvr.p/woeito14.b/442843.d
Date : 24-JAN-2001 10:33
Client ID: A2IA01170108
Sample Info: 442843;029ACA2IA01170108;81391;012409
Purge Volume: 200.0
Column phase: DB-1

Instrument: W.i

Operator: GMM
Column diameter: 0.35



STL Burlington

AIR TOXICS QUANTITATION REPORT

Data file : /chem/W.i/Wsvr.p/wceito14.b/442843.d
Lab Smp Id: 442843 Client Smp ID: A2IA01170108
Inj Date : 24-JAN-2001 10:33
Operator : GMM Inst ID: W.i
Smp Info : 442843;029ACA2IA01170108;81391;012409
Misc Info : 100%
Comment :
Method : /chem/W.i/Wsvr.p/wceito14.b/ato14.m
Meth Date : 29-Jan-2001 09:45 mim Quant Type: ISTD
Cal Date : 18-DEC-2000 13:44 Cal File: ce010i2.d
Als bottle: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ACCANA2.sub
Target Version: 3.50
Processing Host: chemsvr4

Concentration Formula: Amt * DF * X* Uf/Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
X	200.00000	method volume factor
Uf	1.00000	ng unit correction factor
Vo	200.00000	Sample Volume purged (mL)

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	FINAL (ppbv)
2	Chloromethane	50	Compound Not Detected.					
4	Vinyl Chloride	62	Compound Not Detected.					
5	Bromomethane	94	Compound Not Detected.					
6	Chloroethane	64	Compound Not Detected.					
7	Trichlorofluoromethane	101	Compound Not Detected.					
9	Methylene Chloride	49	6.044	5.982	(0.793)	25270	0.96777	0.97
11	1,1-Dichloroethane	63	Compound Not Detected.					
12	cis-1,2-Dichloroethene	61	Compound Not Detected.					
* 13	Bromochloromethane	128	7.622	7.621	(1.000)	268938	10.0000	
14	Chloroform	83	Compound Not Detected.					
15	1,2-Dichloroethane	62	Compound Not Detected.					
16	1,1,1-Trichloroethane	97	Compound Not Detected.					
17	Benzene	78	8.730	8.744	(0.975)	53251	0.74580	0.74
18	Carbon Tetrachloride	117	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)
*	19 1,4-Difluorobenzene	114	8.957	8.956	(1.000)	1250817	10.0000	
	20 1,2-Dichloropropane	63	Compound Not Detected.					
	21 Trichloroethene	95	Compound Not Detected.					
	22 cis-1,3-Dichloropropene	75	Compound Not Detected.					
	23 trans-1,3-Dichloropropene	75	Compound Not Detected.					
	24 1,1,2-Trichloroethane	83	Compound Not Detected.					
	25 Toluene	92	10.627	10.656	(0.900)	56154	1.21804	1.2
	27 Tetrachloroethene	166	Compound Not Detected.					
*	28 Chlorobenzene-d5	117	11.810	11.840	(1.000)	1162438	10.0000	
	29 Chlorobenzene	112	Compound Not Detected.					
	30 Ethylbenzene	91	Compound Not Detected.					
	31 Xylene (m,p)	106	12.190	12.219	(1.032)	56488	1.47326	1.5
	32 Styrene	104	Compound Not Detected.					
M	33 Xylene (total)	106				84601	2.22288	2.2
	34 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					
	35 Xylene (o)	106	12.524	12.538	(1.060)	28113	0.74962	0.75
	38 1,3-Dichlorobenzene	146	Compound Not Detected.					
	39 1,4-Dichlorobenzene	146	Compound Not Detected.					
	40 1,2-Dichlorobenzene	146	Compound Not Detected.					

Data File: /chem/W.i/Wsvr.p/wceito14.b/442843.d

Date : 24-JAN-2001 10:33

Client ID: A2IA01170108

Instrument: W.i

Sample Info: 442843;029ACA2IA01170108;81391;012409

Purge Volume: 200.0

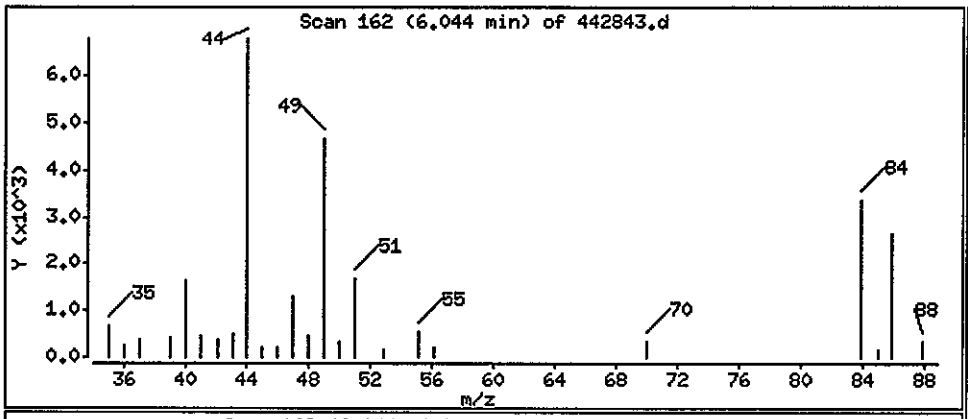
Operator: GHM

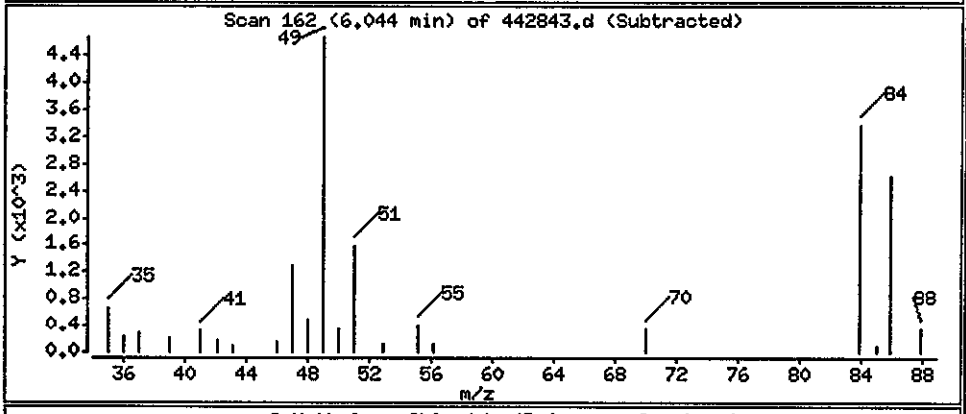
Column phase: DB-1

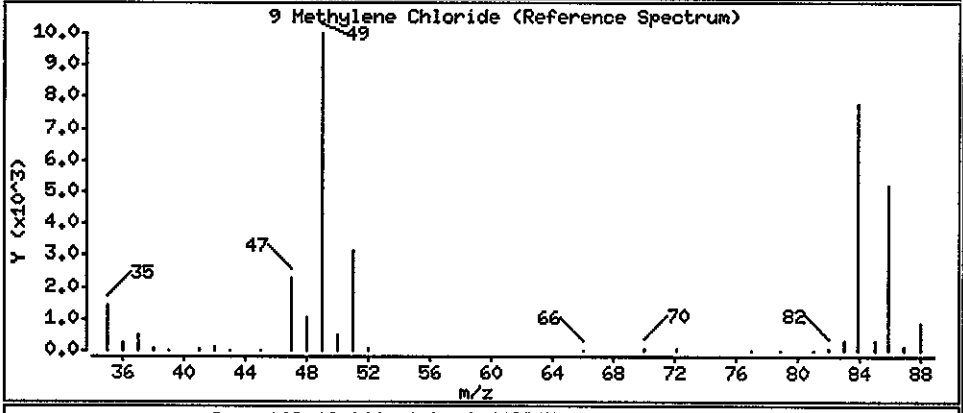
Column diameter: 0.35

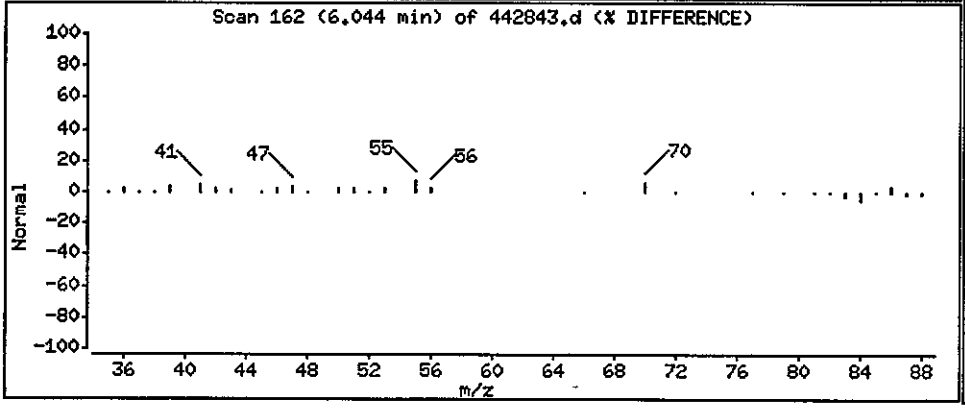
9 Methylene Chloride

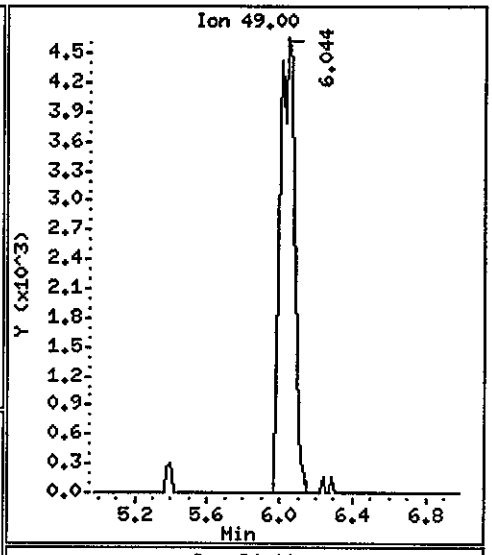
Concentration: 0.97 ppbv

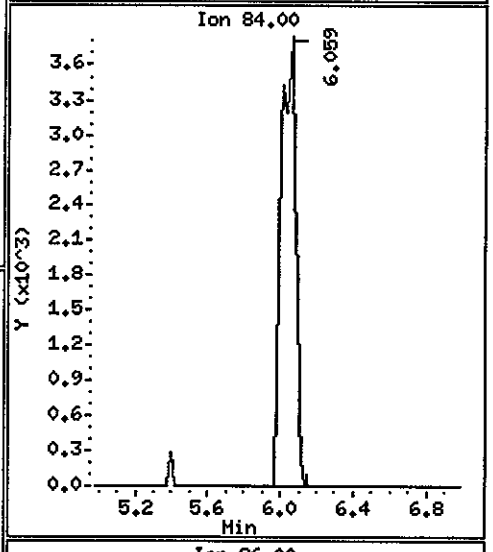


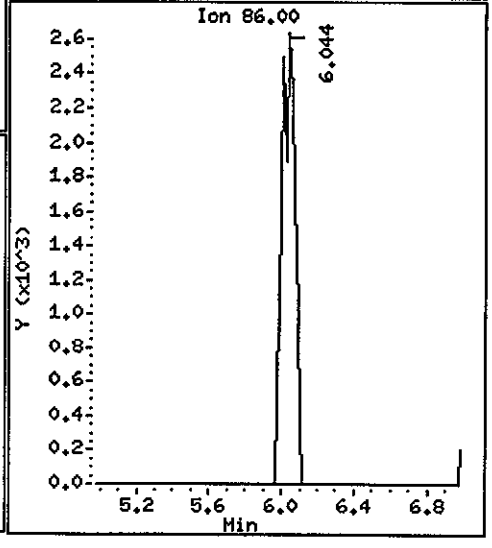












Data File: /chem/W.i/Wsvr.p/wceito14.b/442843.d

Date : 24-JAN-2001 10:33

Client ID: A2IA01170108

Instrument: W.i

Sample Info: 442843;029ACA2IA01170108;81391;012409

Purge Volume: 200.0

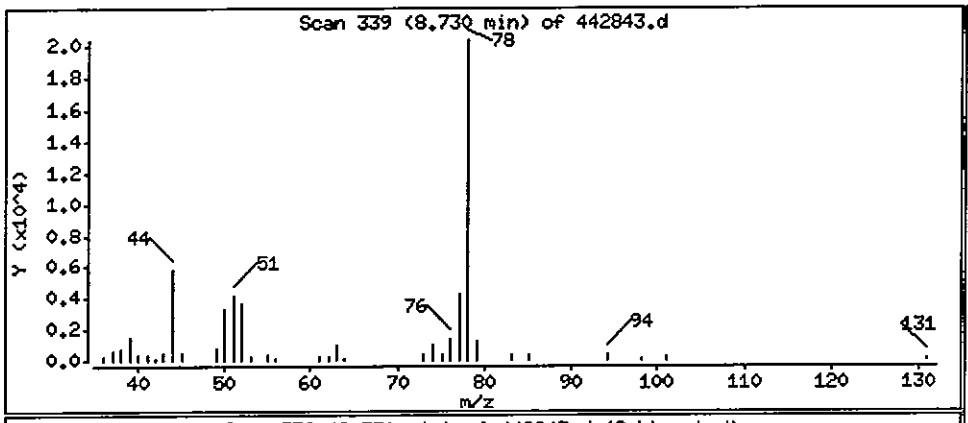
Operator: GHH

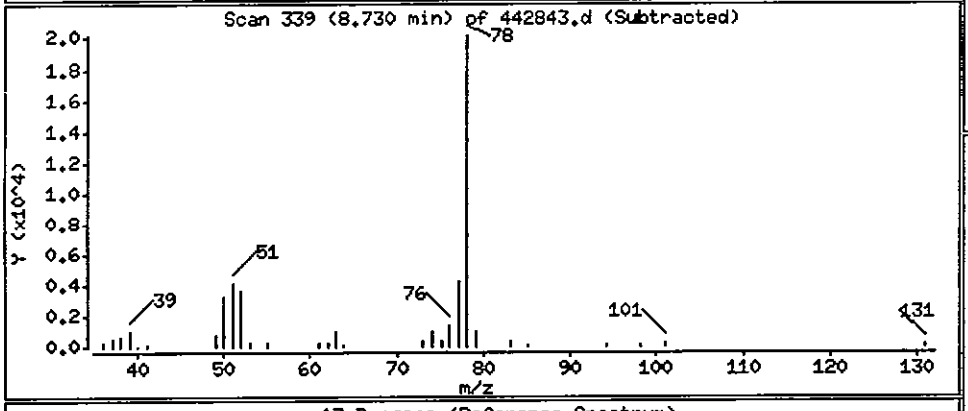
Column phase: DB-1

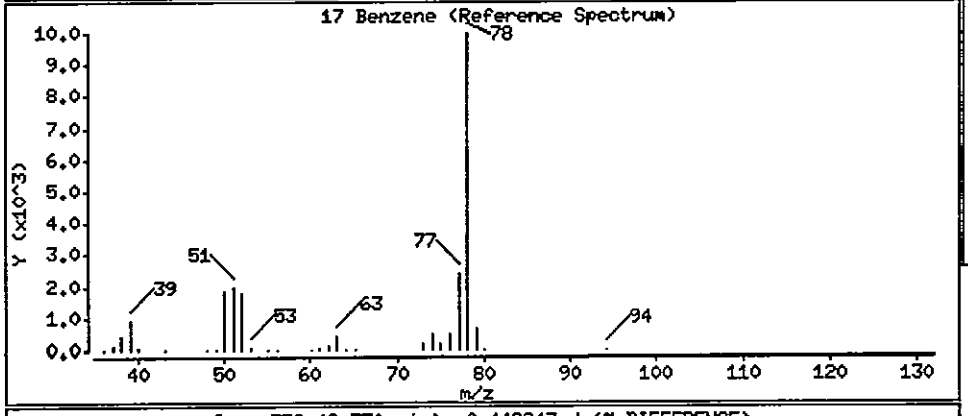
Column diameter: 0.35

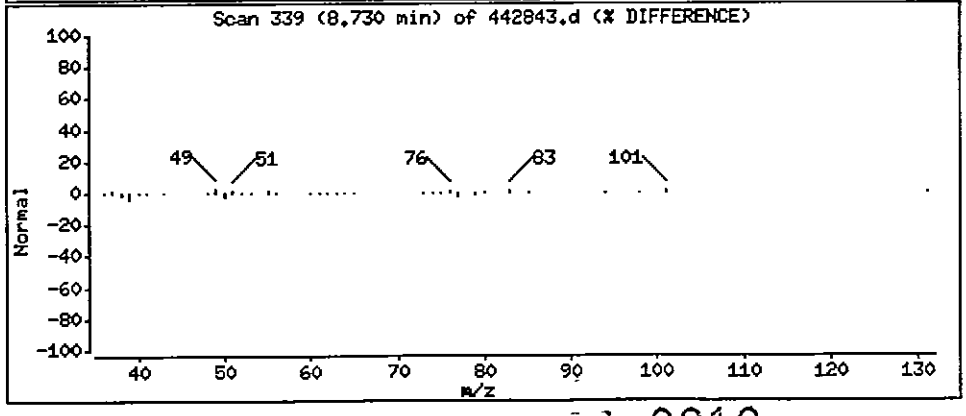
17 Benzene

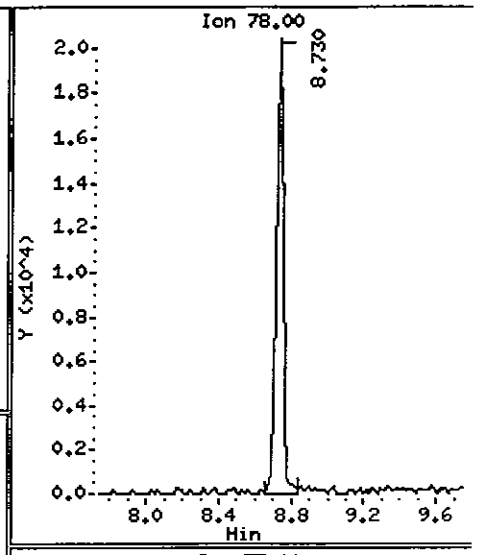
Concentration: 0.74 ppbv

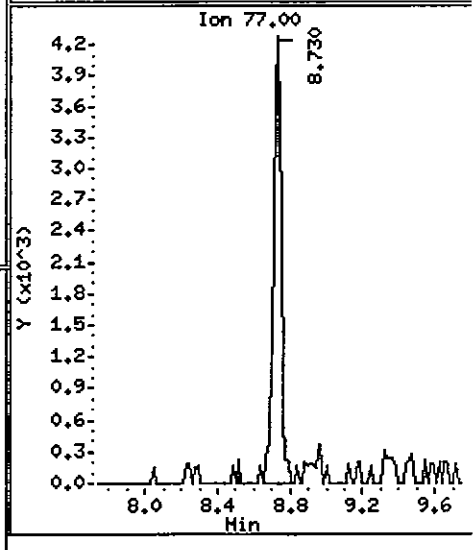












Data File: /chem/W.i/Wsvr.p/wceito14.b/442843.d

Date : 24-JAN-2001 10:33

Client ID: A2IA01170108

Instrument: W.i

Sample Info: 442843;029ACA2IA01170108;81391;012409

Purge Volume: 200.0

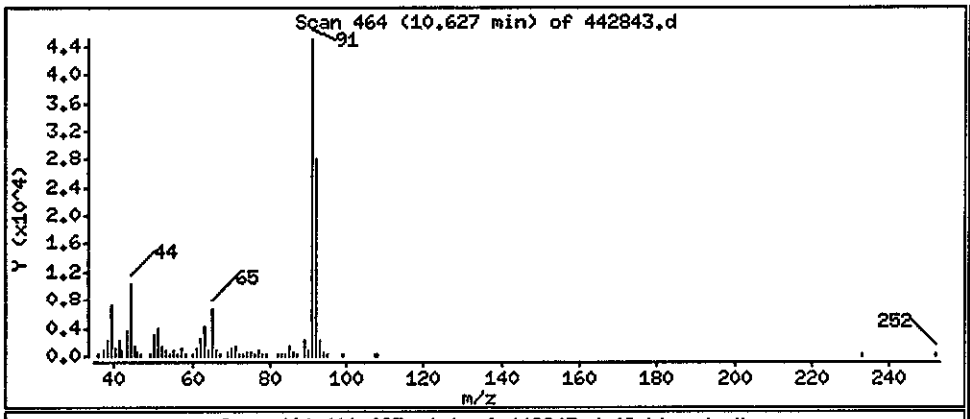
Operator: GHM

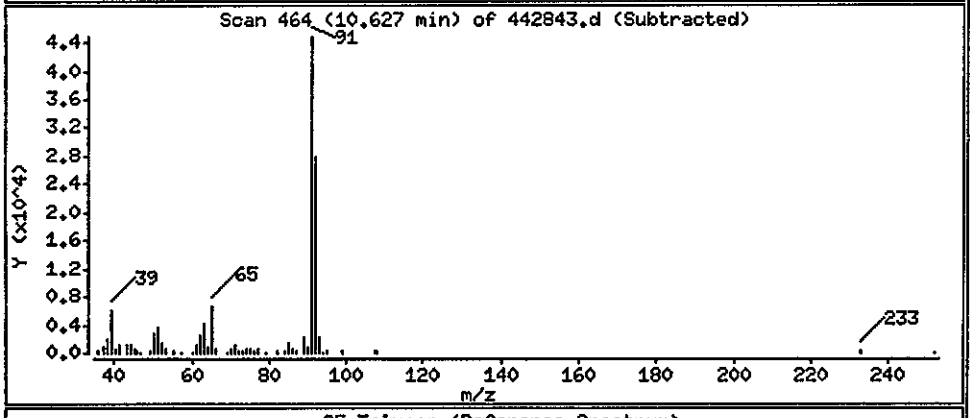
Column phase: DB-1

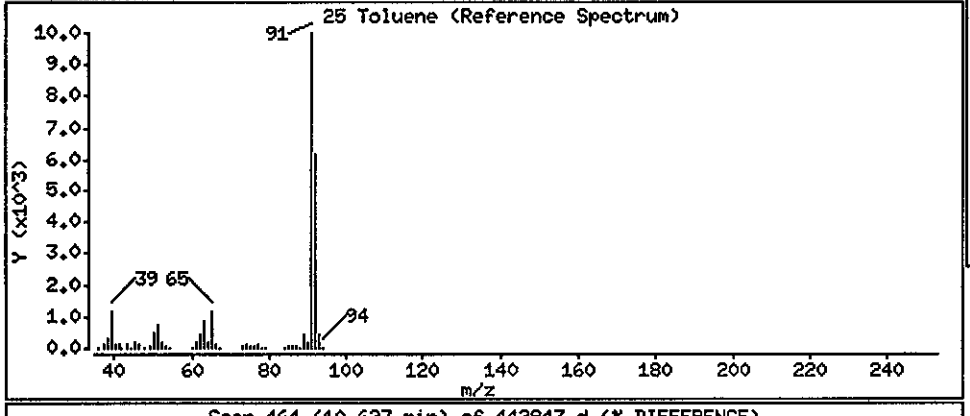
Column diameter: 0.35

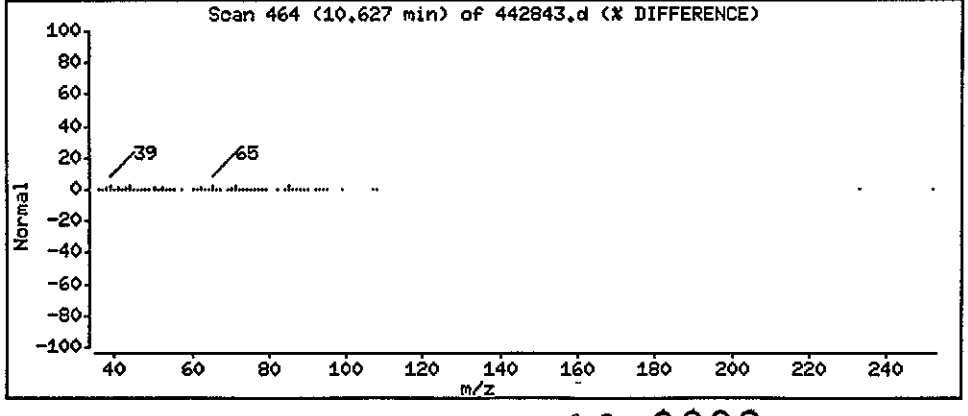
25 Toluene

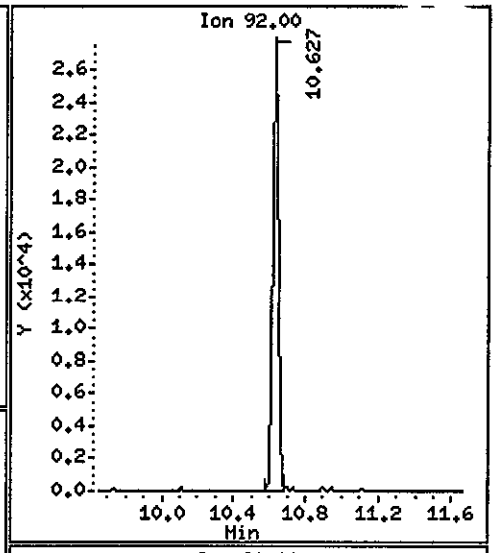
Concentration: 1.2 ppbv

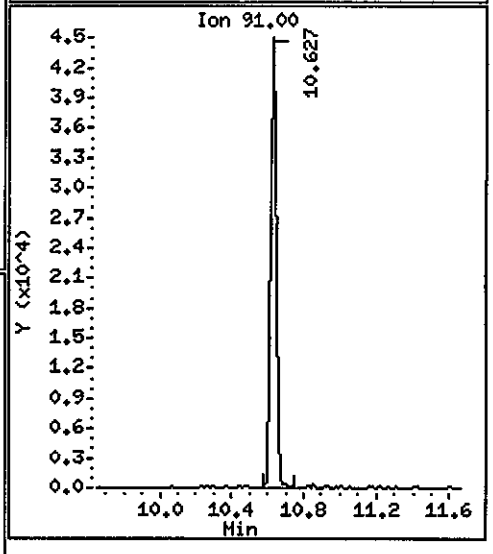












Data File: /chem/W.i/Wsvr.p/wceito14.b/442843.d

Date : 24-JAN-2001 10:33

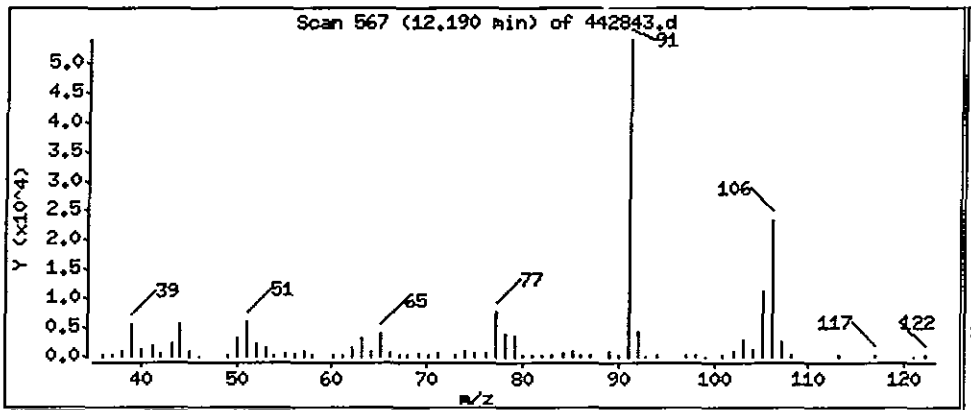
Client ID: A2IA01170108 Instrument: W.i

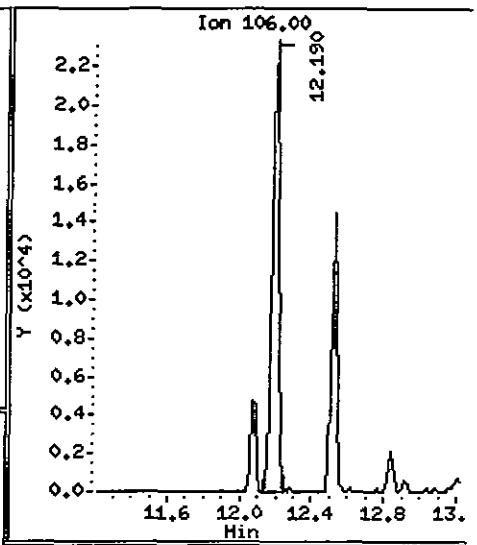
Sample Info: 442843;029ACA2IA01170108;81391;012409

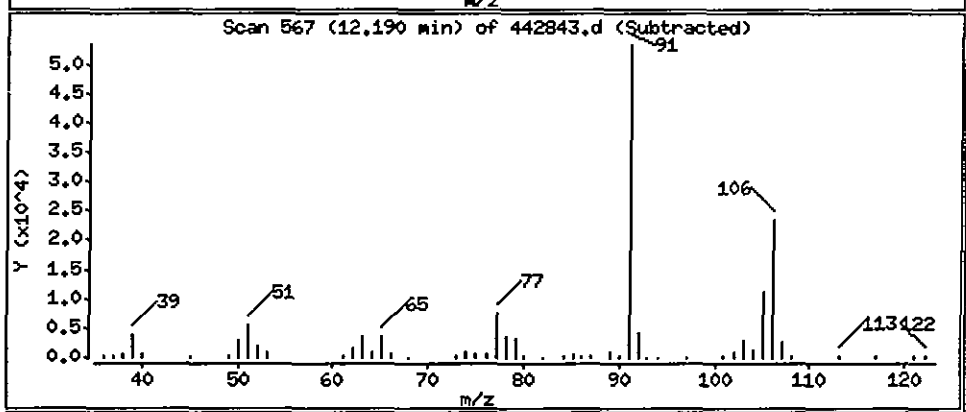
Purge Volume: 200.0 Operator: GMM

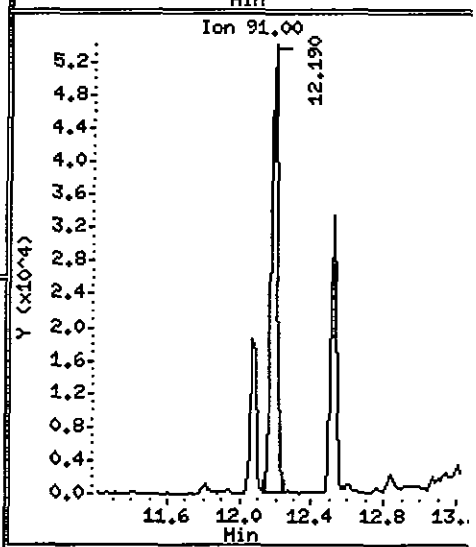
Column phase: DB-1 Column diameter: 0.35

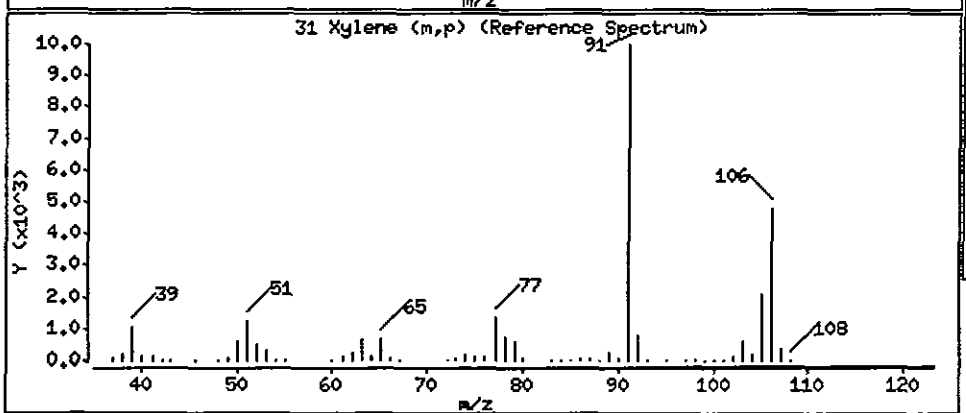
31 Xylene (m,p) Concentration: 1.5 ppbv

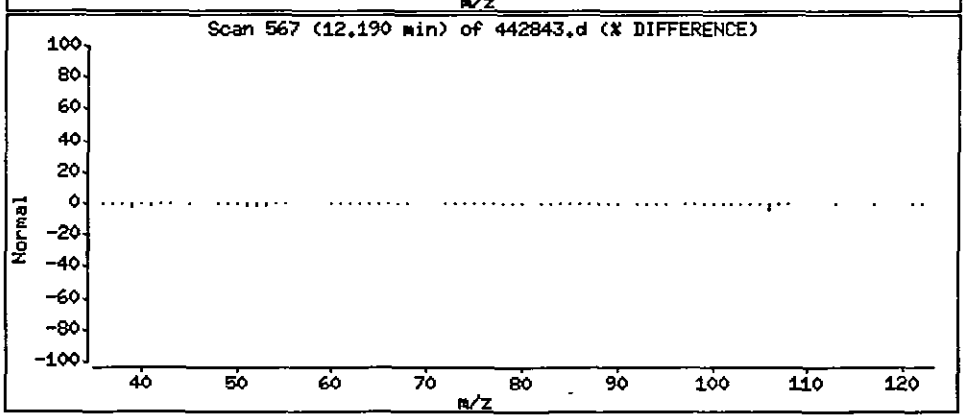












Data File: /chem/W.i/Wsvr.p/wceito14.b/442843.d

Date : 24-JAN-2001 10:33

Client ID: A2IA01170108

Instrument: W.i

Sample Info: 442843;029ACA2IA01170108;81391;012409

Purge Volume: 200.0

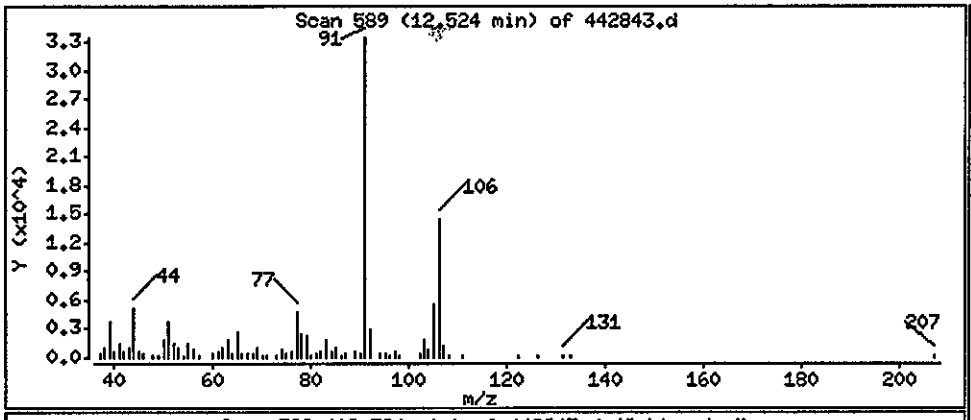
Operator: GHM

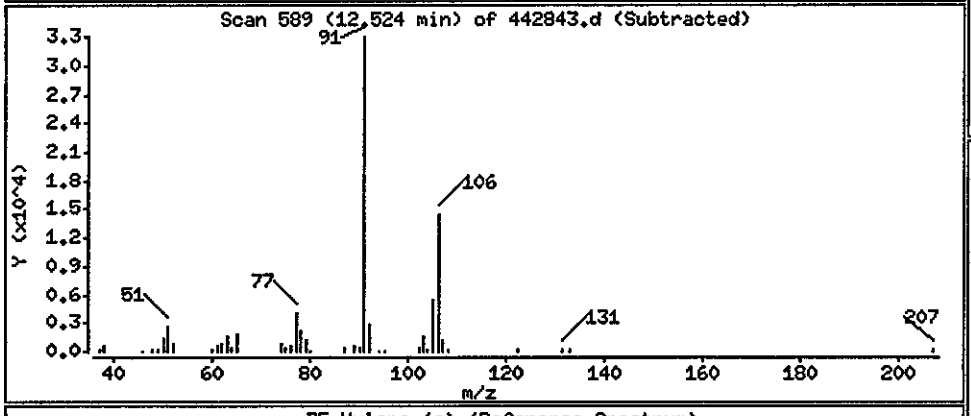
Column phase: DB-1

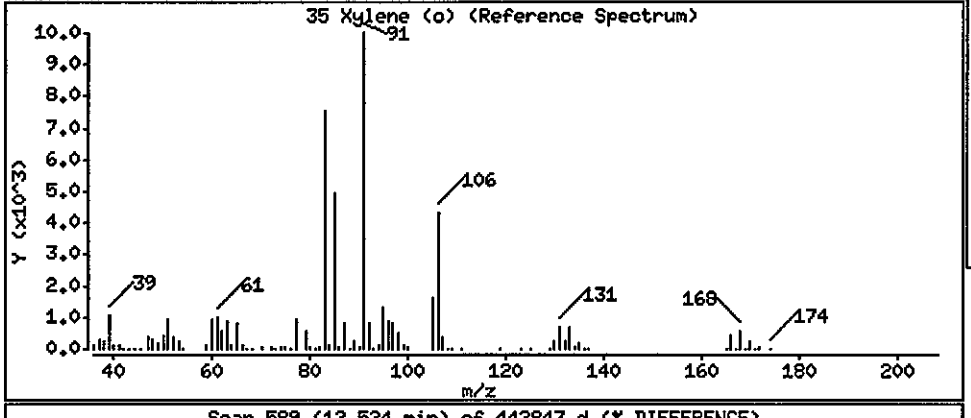
Column diameter: 0.35

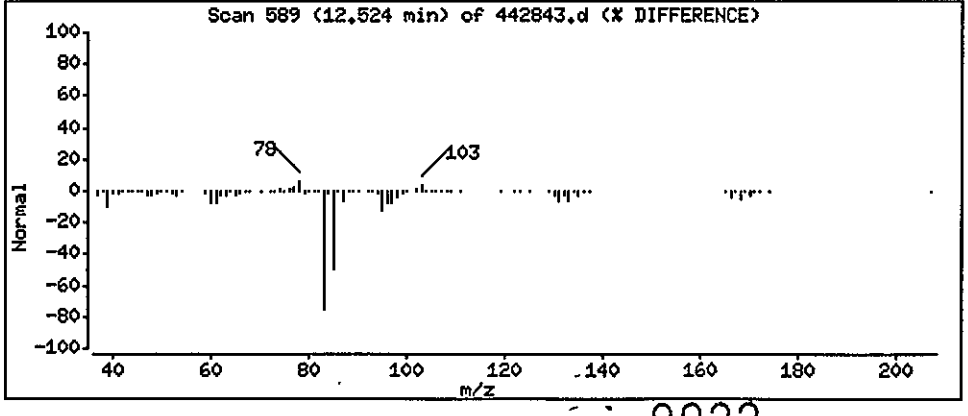
35 Xylene (o)

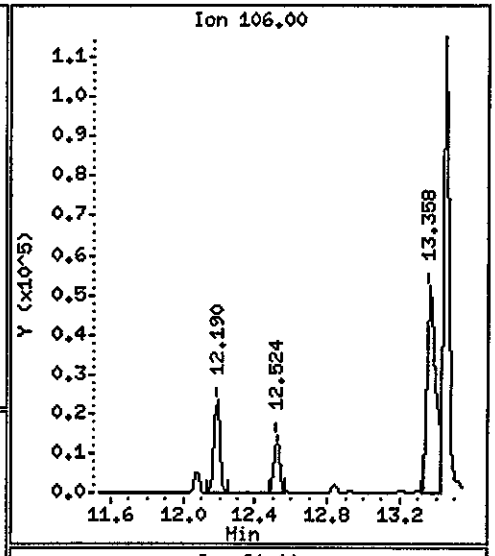
Concentration: 0.75 ppbv

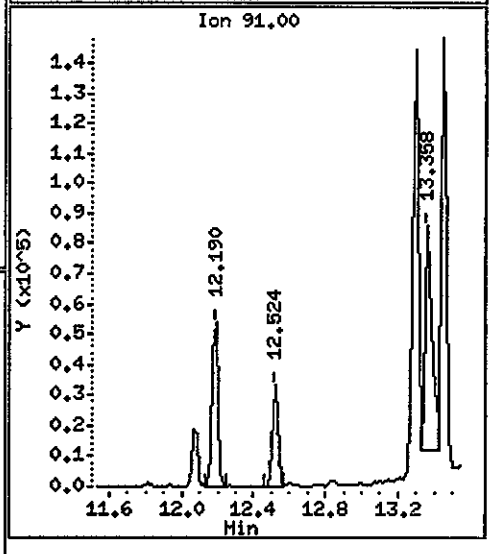












Data File: /chem/W.i/Wsvr.p/wceito14.b/442843.d

Date : 24-JAN-2001 10:33

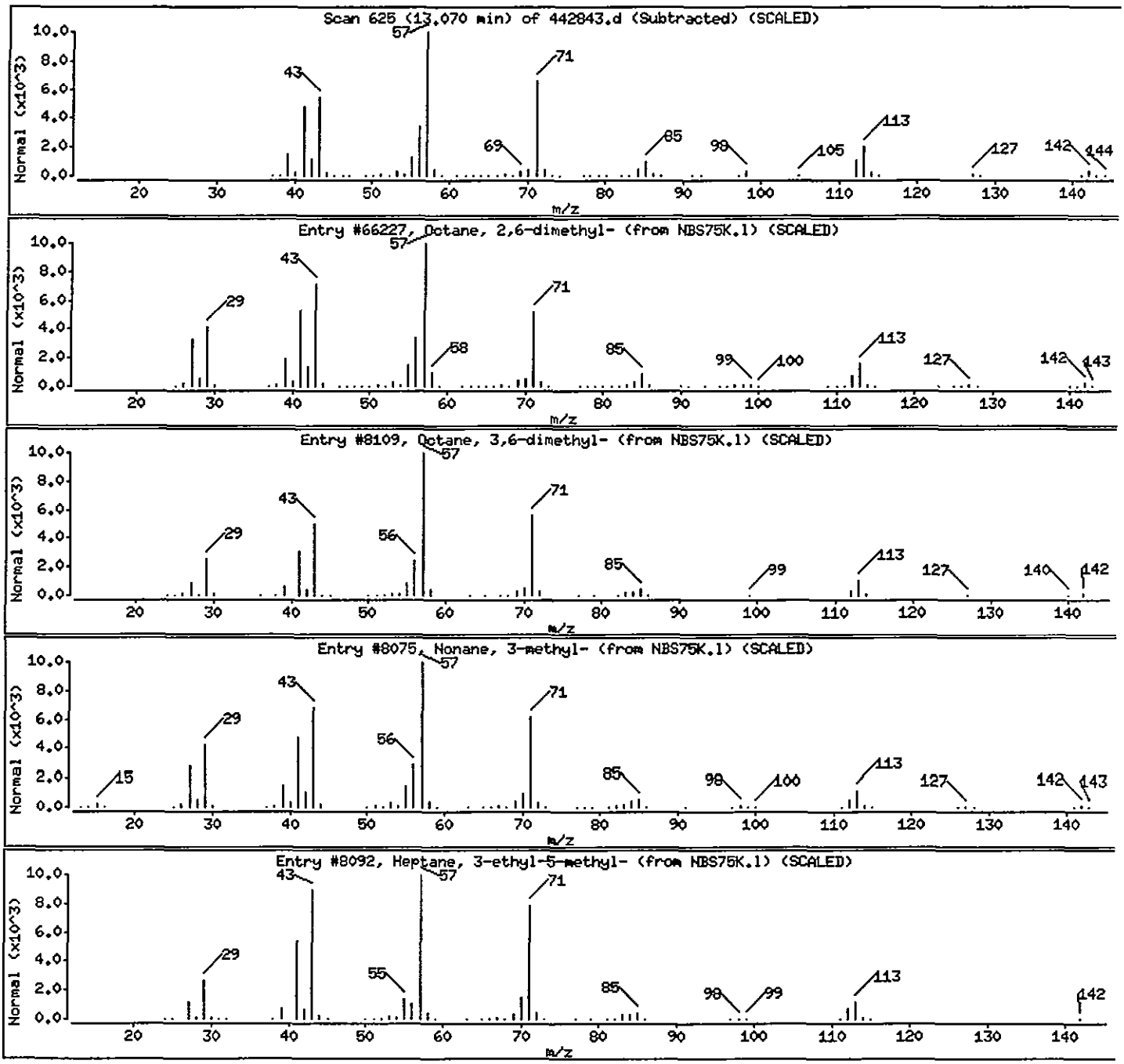
Client ID: A2IA01170108 Instrument: W.i

Sample Info: 442843;029ACA2IA01170108;81391;012409

Purge Volume: 200.0 Operator: GMH

Column phase: DB-1 Column diameter: 0.35

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown aliphatic compound						
Octane, 2,6-dimethyl-	2051-30-1	NBS75K.l	66227	91	C10H22	142
Octane, 3,6-dimethyl-	15869-94-0	NBS75K.l	8109	91	C10H22	142
Nonane, 3-methyl-	5911-04-6	NBS75K.l	8075	78	C10H22	142
Heptane, 3-ethyl-5-methyl-	52896-90-9	NBS75K.l	8092	53	C10H22	142



Data File: /chem/W.i/Wsvr.p/wceito14.b/442843.d

Date : 24-JAN-2001 10:33

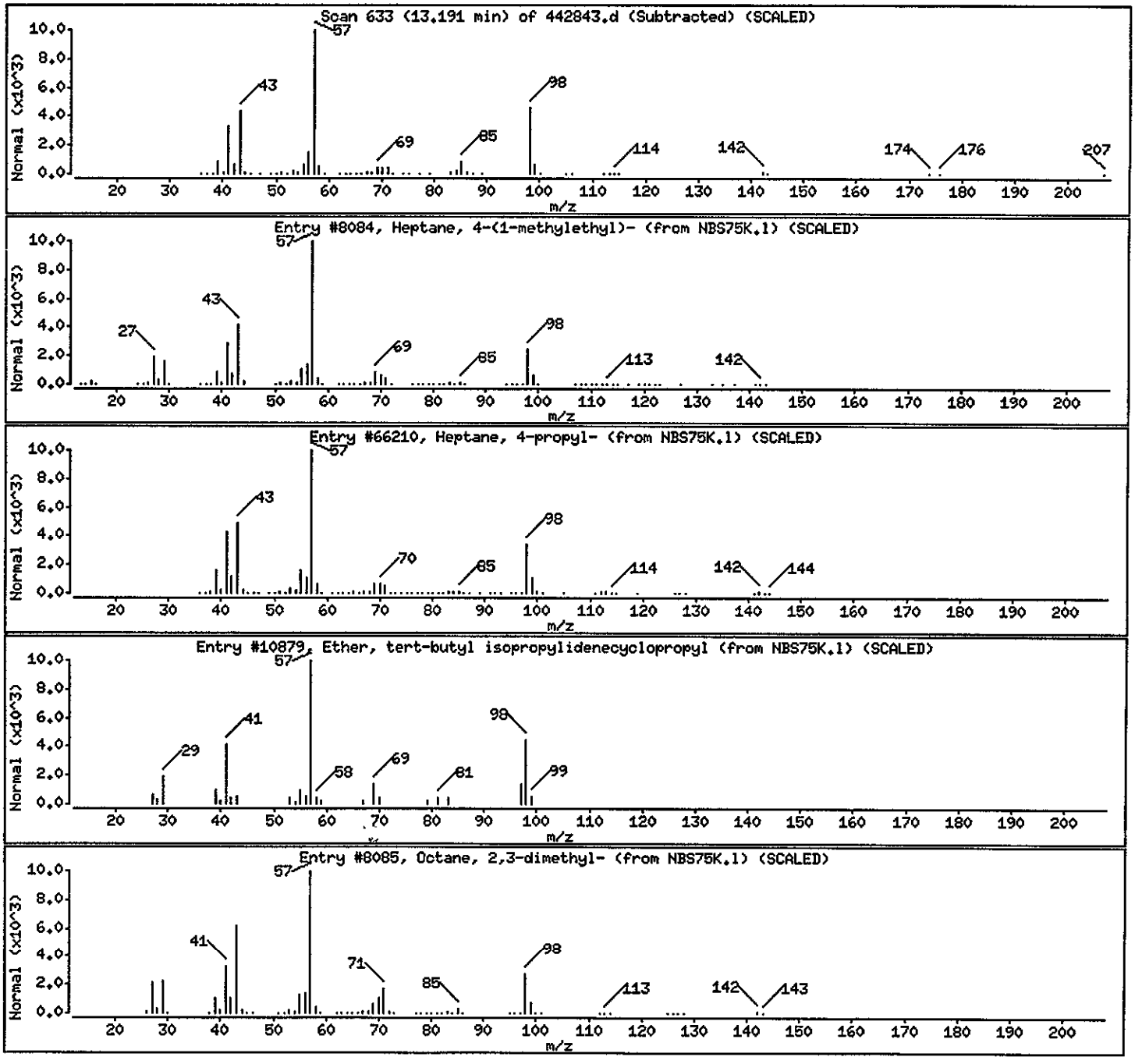
Client ID: A2IA01170108 Instrument: W.i

Sample Info: 442843;029ACA2IA01170108;81391;012409

Purge Volume: 200.0 Operator: GMM

Column phase: DB-1 Column diameter: 0.35

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown aliphatic compound						
Heptane, 4-(1-methylethyl)-	52896-87-4	NBS75K.1	8084	50	C10H22	142
Heptane, 4-propyl-	3178-29-8	NBS75K.1	66210	46	C10H22	142
Ether, tert-butyl isopropylidenecyclopro	24524-56-9	NBS75K.1	10879	45	C10H18O	154
Octane, 2,3-dimethyl-	7146-60-3	NBS75K.1	8085	43	C10H22	142



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Date : 24-JAN-2001 10:33

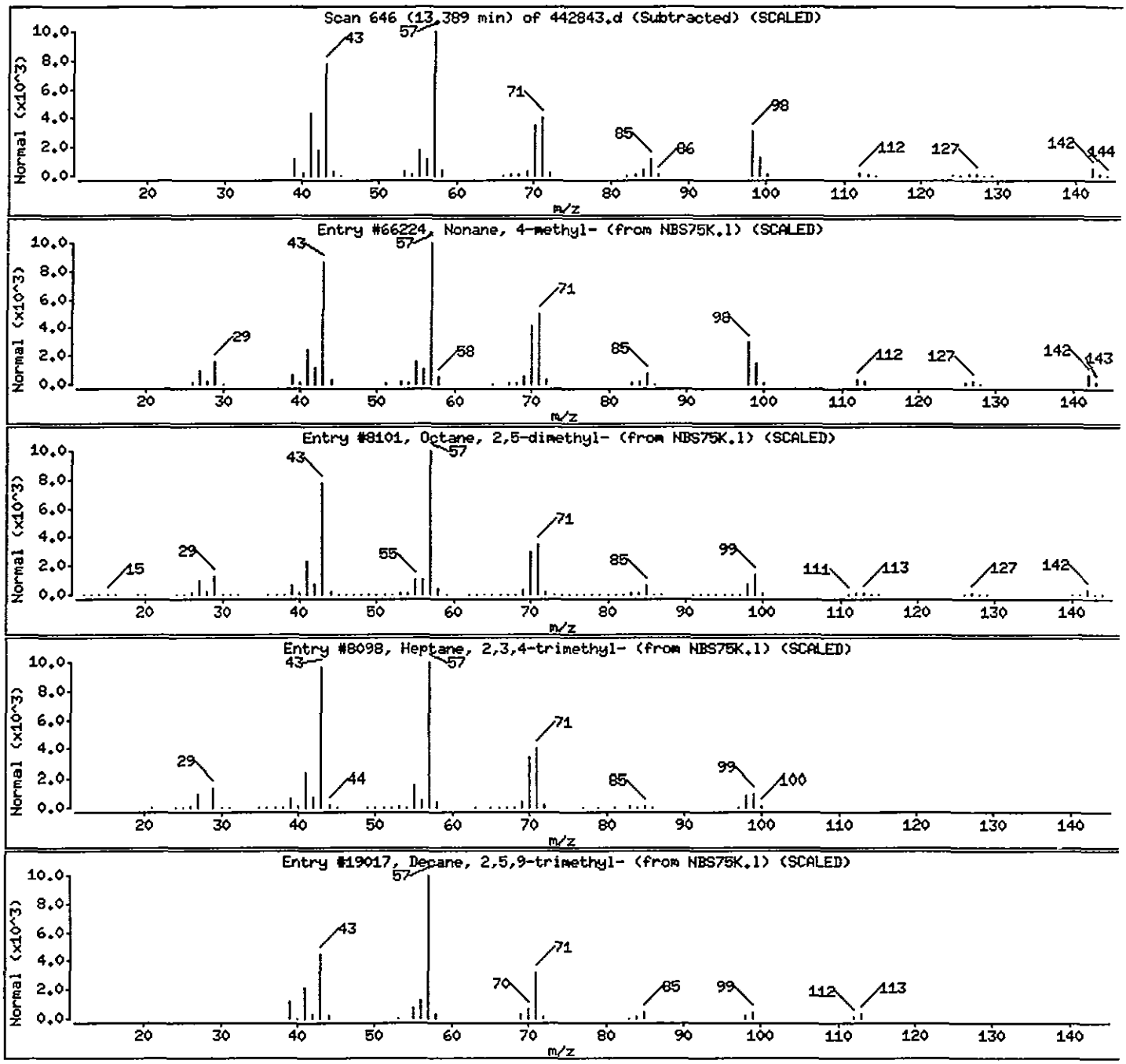
Client ID: A2IA01170108 Instrument: W.i

Sample Info: 442843;029ACA2IA01170108;81391;012409

Purge Volume: 200.0 Operator: GMM

Column phase: DB-1 Column diameter: 0.35

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown aliphatic compound						
Nonane, 4-methyl-	17301-94-9	NBS75K.l	66224	91	C10H22	142
Octane, 2,5-dimethyl-	15869-89-3	NBS75K.l	8101	87	C10H22	142
Heptane, 2,3,4-trimethyl-	52896-95-4	NBS75K.l	8098	64	C10H22	142
Decane, 2,5,9-trimethyl-	62108-22-9	NBS75K.l	19017	59	C13H28	184



Data File: /chem/W.i/Wsvr.p/wceito14.b/442843.d

Date : 24-JAN-2001 10:33

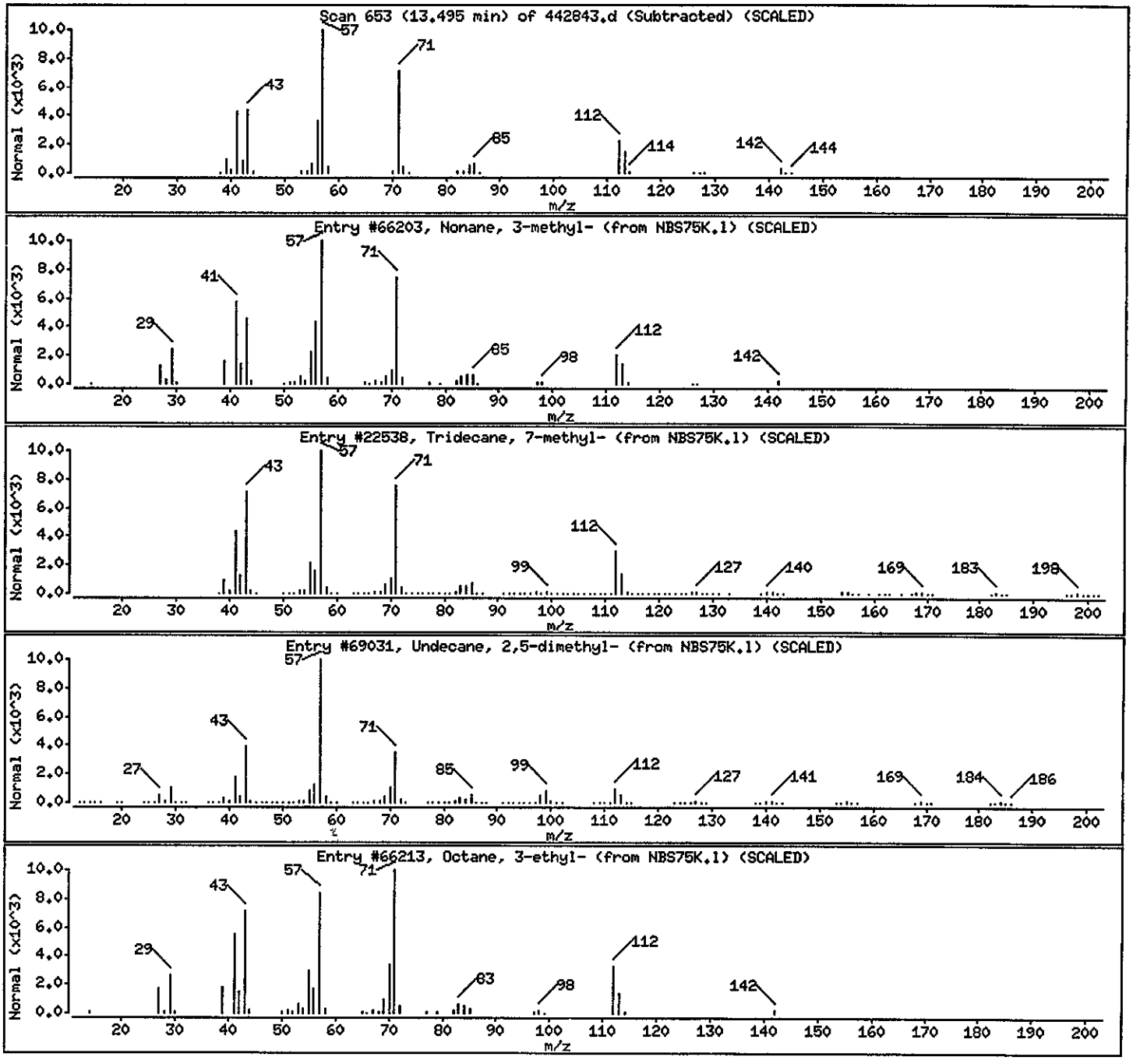
Client ID: A2IA01170108 Instrument: W.i

Sample Info: 442843;029ACA2IA01170108;81391;012409

Purge Volume: 200.0 Operator: GMM

Column phase: DB-1 Column diameter: 0.35

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown aliphatic compound						
Nonane, 3-methyl-	5911-04-6	NBS75K.l	66203	91	C10H22	142
Tridecane, 7-methyl-	26730-14-3	NBS75K.l	22538	78	C14H30	198
Undecane, 2,5-dimethyl-	17301-22-3	NBS75K.l	69031	72	C13H28	184
Octane, 3-ethyl-	5881-17-4	NBS75K.l	66213	64	C10H22	142



Data File: /chem/W.i/Wsvr.p/wceito14.b/442843.d

Date : 24-JAN-2001 10:33

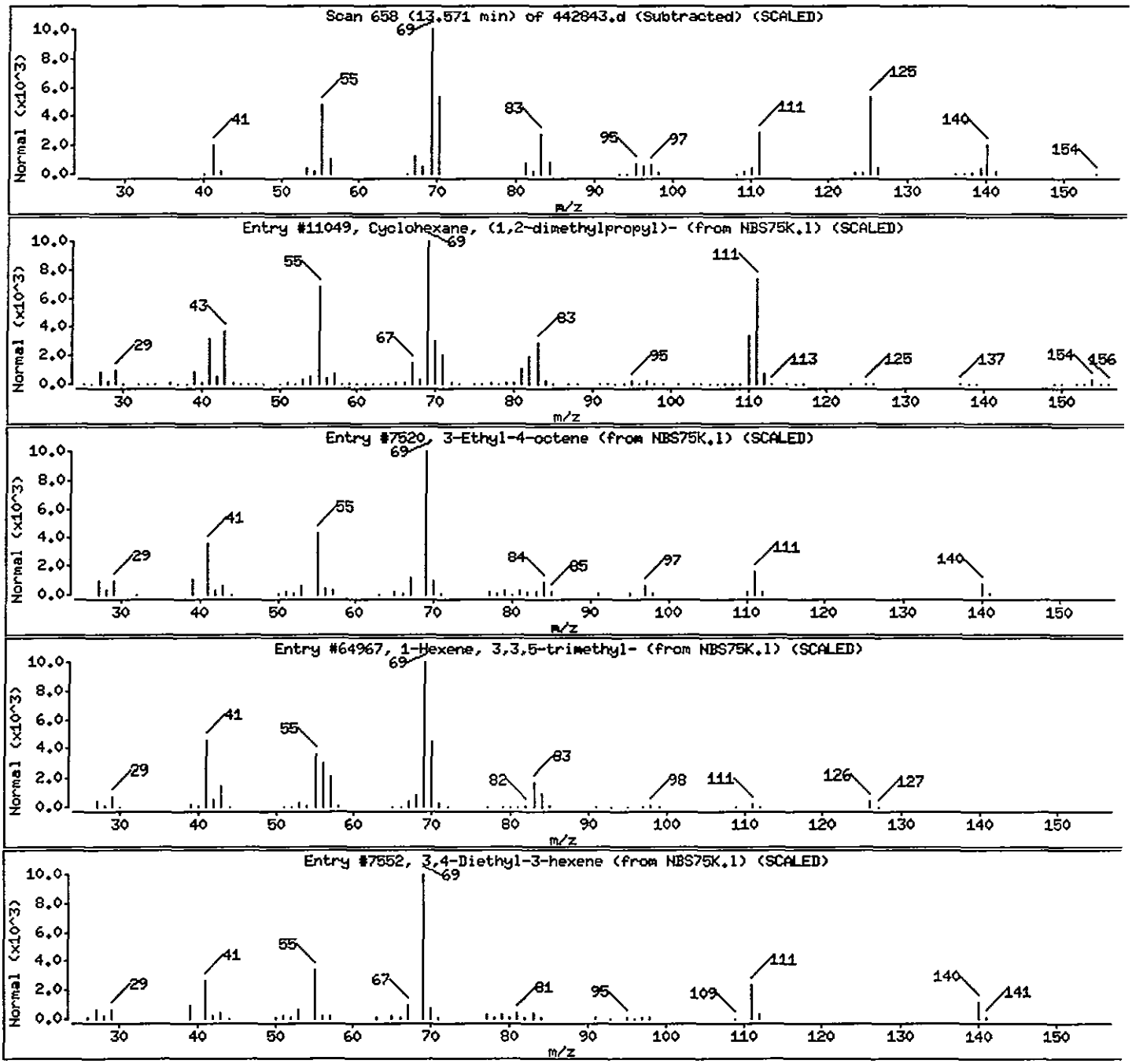
Client ID: A2IA01170108 Instrument: W.i

Sample Info: 442843;029ACA2IA01170108;81391;012409

Purge Volume: 200.0 Operator: GMH

Column phase: DB-1 Column diameter: 0.35

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Cyclohexane, (1,2-dimethylpropyl)-	51284-29-8	NBS75K.l	11049	47	C11H22	154
3-Ethyl-4-octene	0-00-0	NBS75K.l	7520	43	C10H20	140
1-Hexene, 3,3,5-trimethyl-	13427-43-5	NBS75K.l	64967	43	C9H18	126
3,4-Diethyl-3-hexene	868-46-2	NBS75K.l	7552	43	C10H20	140



Data File: /chem/W.i/Wsvr.p/wceito14.b/442843.d

Date : 24-JAN-2001 10:33

Client ID: A2IA01170108

Instrument: W.i

Sample Info: 442843;029ACA2IA01170108;81391;012409

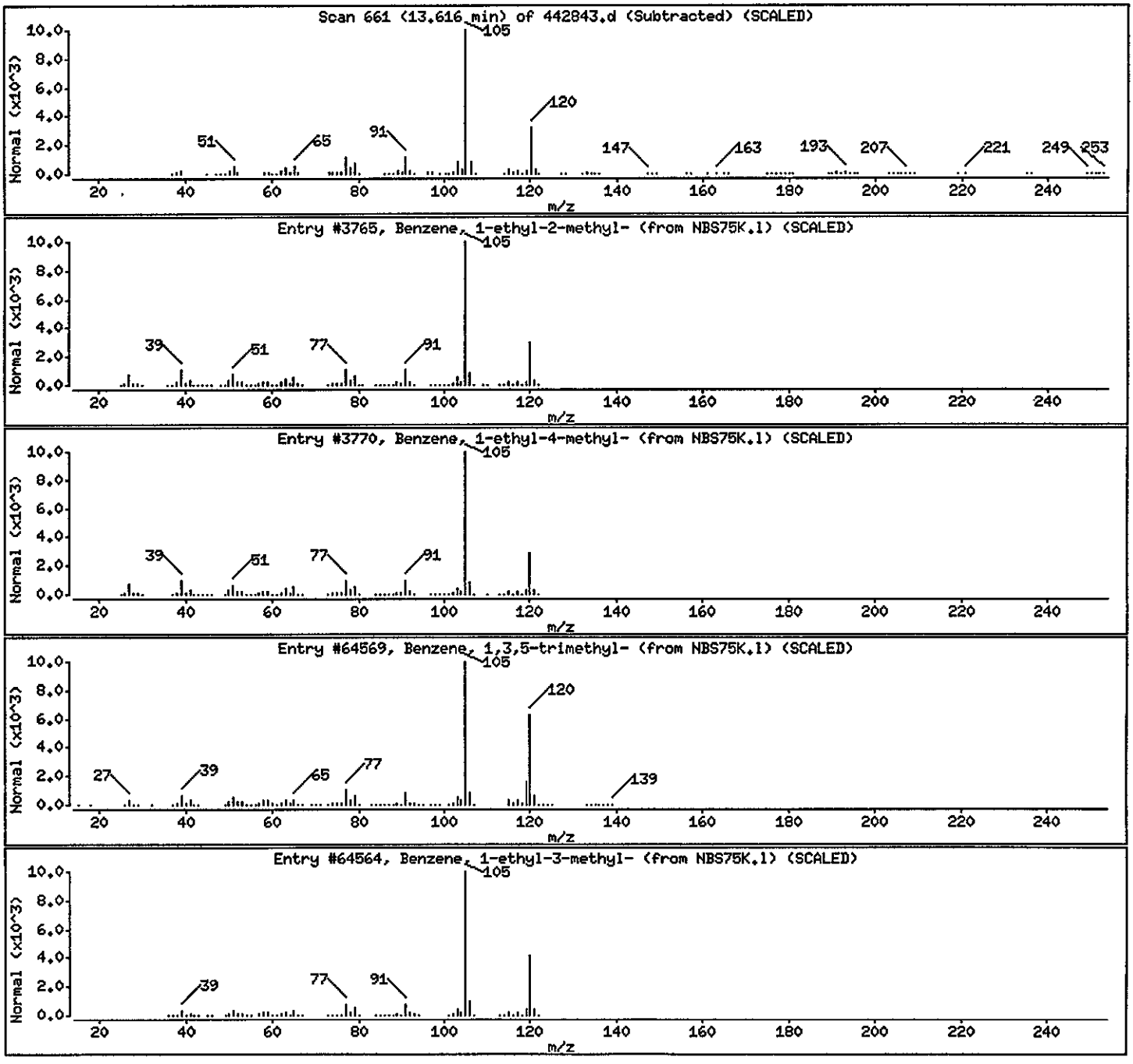
Purge Volume: 200.0

Operator: GHM

Column phase: DB-1

Column diameter: 0.35

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown C3-alkylbenzene						
Benzene, 1-ethyl-2-methyl-	611-14-3	NBS75K.l	3765	95	C9H12	120
Benzene, 1-ethyl-4-methyl-	622-96-8	NBS75K.l	3770	93	C9H12	120
Benzene, 1,3,5-trimethyl-	108-67-8	NBS75K.l	64569	90	C9H12	120
Benzene, 1-ethyl-3-methyl-	620-14-4	NBS75K.l	64564	90	C9H12	120



Data File: /chem/W.i/Wsvr.p/uceito14.b/442843.d

Date : 24-JAN-2001 10:33

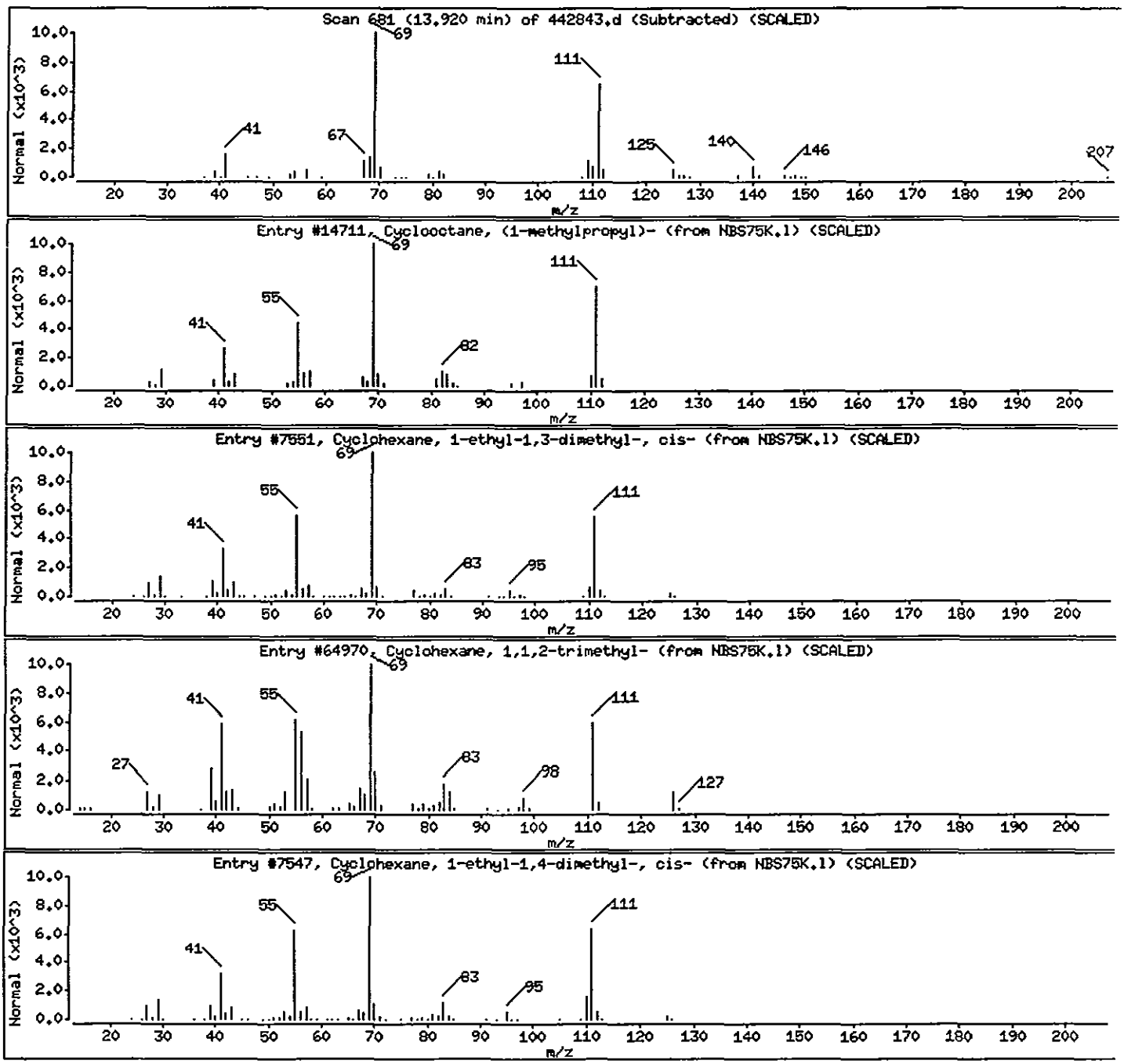
Client ID: A2IA01170108 Instrument: W.i

Sample Info: 442843;029ACA2IA01170108;81391;012409

Purge Volume: 200.0 Operator: GMM

Column phase: DB-1 Column diameter: 0.35

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown cycloalkane						
Cyclooctane, (1-methylpropyl)-	16538-89-9	NBS75K.1	14711	50	C12H24	168
Cyclohexane, 1-ethyl-1,3-dimethyl-, cis-	62238-31-7	NBS75K.1	7551	50	C10H20	140
Cyclohexane, 1,1,2-trimethyl-	7094-26-0	NBS75K.1	64970	40	C9H18	126
Cyclohexane, 1-ethyl-1,4-dimethyl-, cis-	62238-30-6	NBS75K.1	7547	40	C10H20	140



Data File: /chem/W.i/Wsvr.p/wceito14.b/442843.d

Date : 24-JAN-2001 10:33

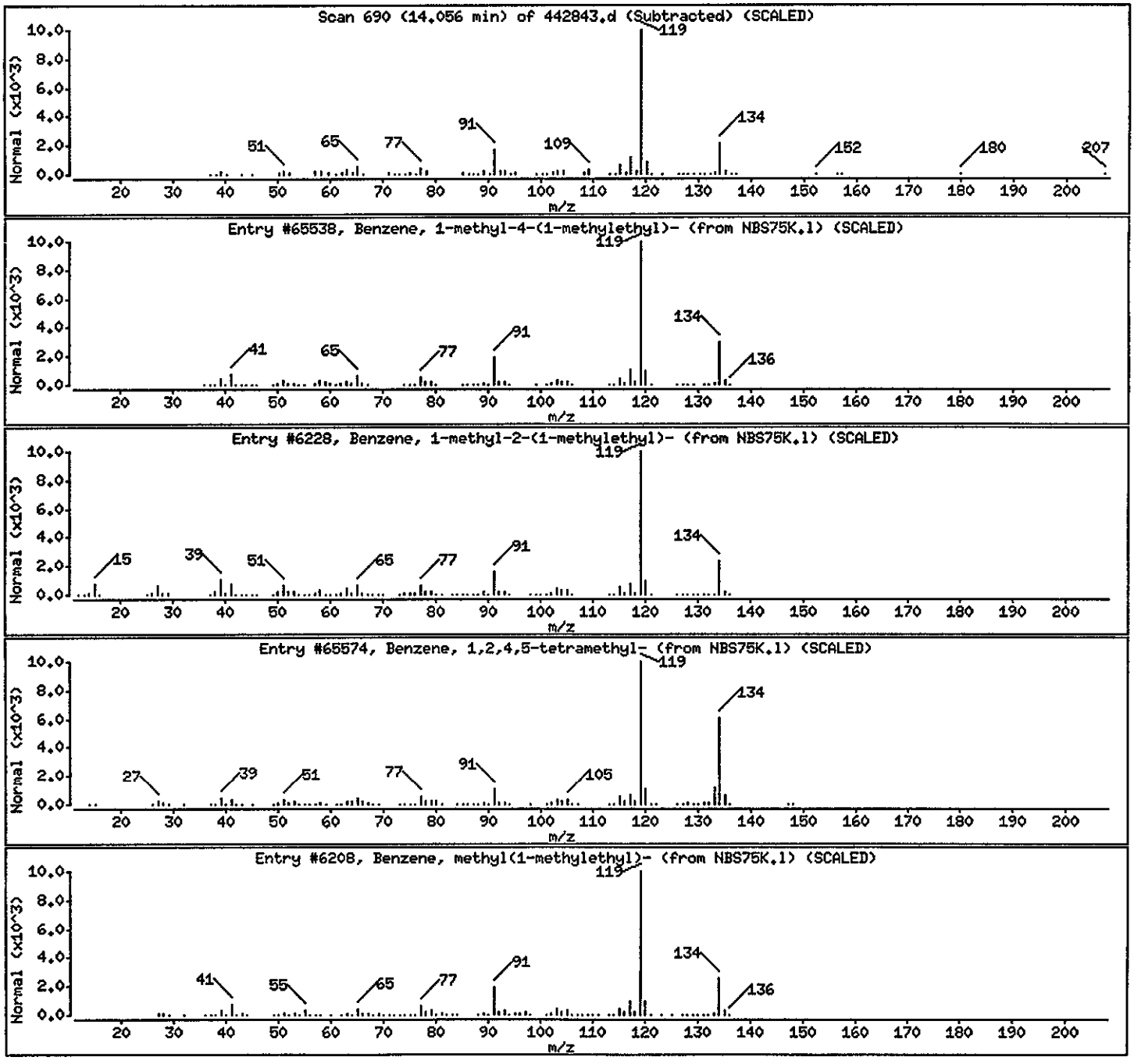
Client ID: A2IA01170108 Instrument: W.i

Sample Info: 442843;029ACA2IA01170108;81391;012409

Purge Volume: 200.0 Operator: GMM

Column phase: DB-1 Column diameter: 0.35

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown C4-alkylbenzene						
Benzene, 1-methyl-4-(1-methylethyl)-	99-87-6	NBS75K.l	65538	94	C10H14	134
Benzene, 1-methyl-2-(1-methylethyl)-	527-84-4	NBS75K.l	6228	91	C10H14	134
Benzene, 1,2,4,5-tetramethyl-	95-93-2	NBS75K.l	65574	90	C10H14	134
Benzene, methyl(1-methylethyl)-	25155-15-1	NBS75K.l	6208	90	C10H14	134



Data File: /chem/W.i/Wsvr.p/wceito14.b/442843.d

Date : 24-JAN-2001 10:33

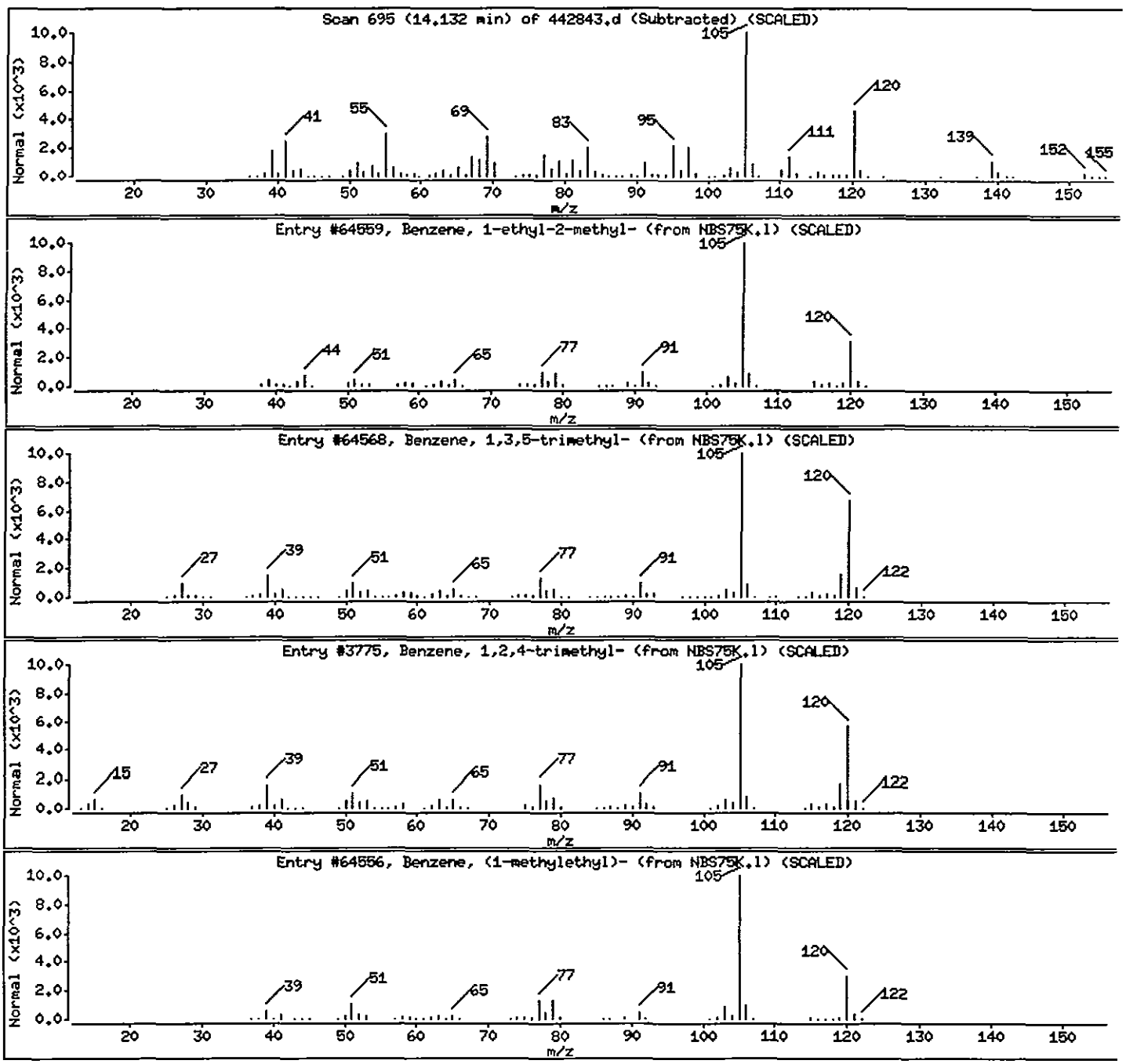
Client ID: A2IA01170108 Instrument: W.i

Sample Info: 442843;029ACA2IA01170108;81391;012409

Purge Volume: 200.0 Operator: GHH

Column phase: DB-1 Column diameter: 0.35

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown C3-alkylbenzene						
Benzene, 1-ethyl-2-methyl-	611-14-3	NBS75K.l	64559	42	C9H12	120
Benzene, 1,3,5-trimethyl-	108-67-8	NBS75K.l	64568	42	C9H12	120
Benzene, 1,2,4-trimethyl-	95-63-6	NBS75K.l	3775	42	C9H12	120
Benzene, (1-methylethyl)-	98-82-8	NBS75K.l	64556	42	C9H12	120



Data File: /chem/W.i/Wsvr.p/wceito14.b/442843.d

Date : 24-JAN-2001 10:33

Client ID: A2IA01170108

Instrument: W.i

Sample Info: 442843;029ACA2IA01170108;81391;012409

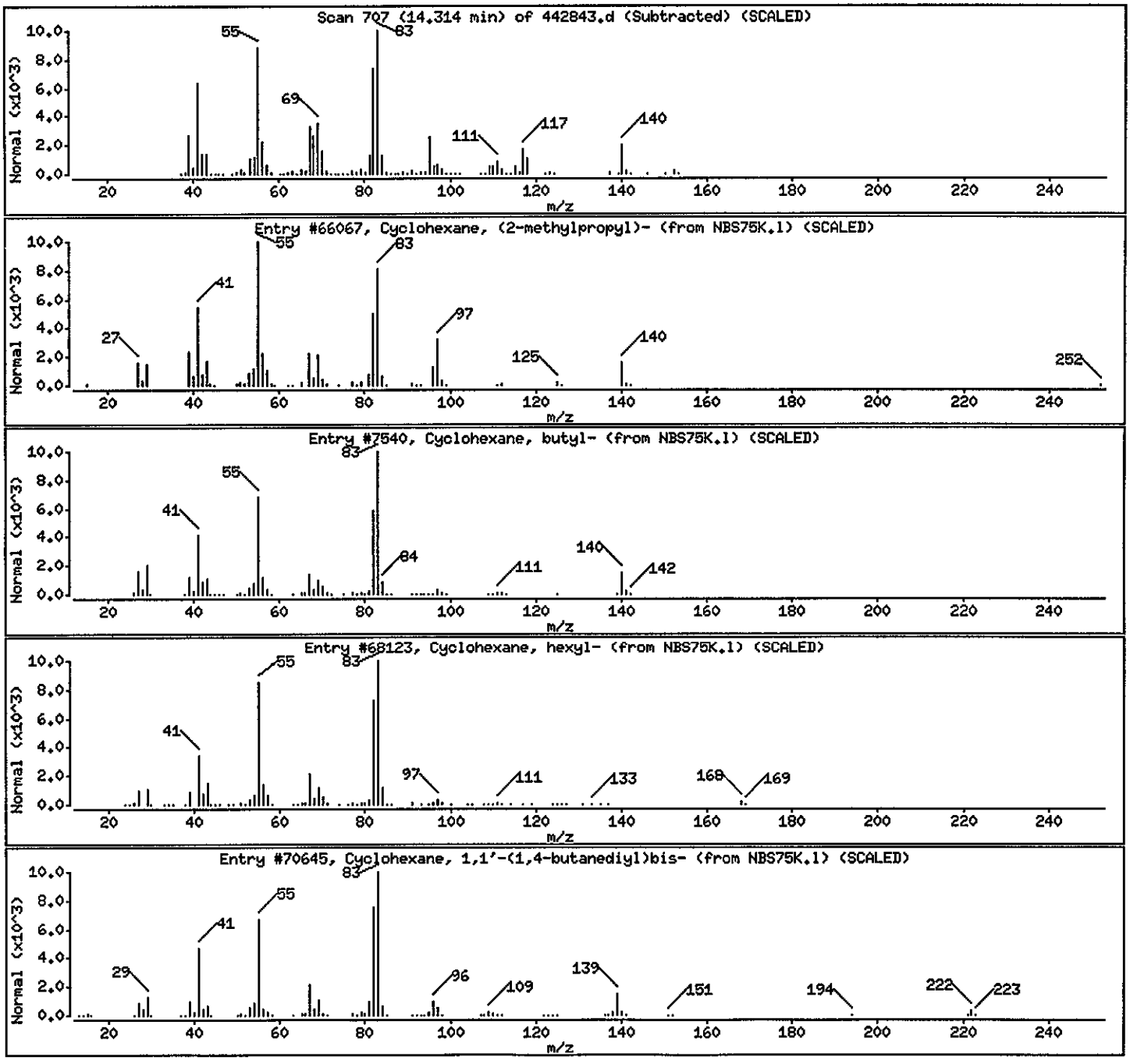
Purge Volume: 200.0

Operator: GMM

Column phase: DB-1

Column diameter: 0.35

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown cycloalkane						
Cyclohexane, (2-methylpropyl)-	1678-98-4	NBS75K.l	66067	64	C10H20	140
Cyclohexane, butyl-	1678-93-9	NBS75K.l	7540	58	C10H20	140
Cyclohexane, hexyl-	4292-75-5	NBS75K.l	68123	50	C12H24	168
Cyclohexane, 1,1'-(1,4-butanediyl)bis-	6165-44-2	NBS75K.l	70645	50	C16H30	222



FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

ACCANA SAMPLE NO.

CAEA01170108

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 81391

Matrix: (soil/water) AIR Lab Sample ID: 442844

Sample wt/vol: 200 (g/mL) ML Lab File ID: 442844

Level: (low/med) LOW Date Received: 01/19/01

% Moisture: not dec. _____ Date Analyzed: 01/24/01

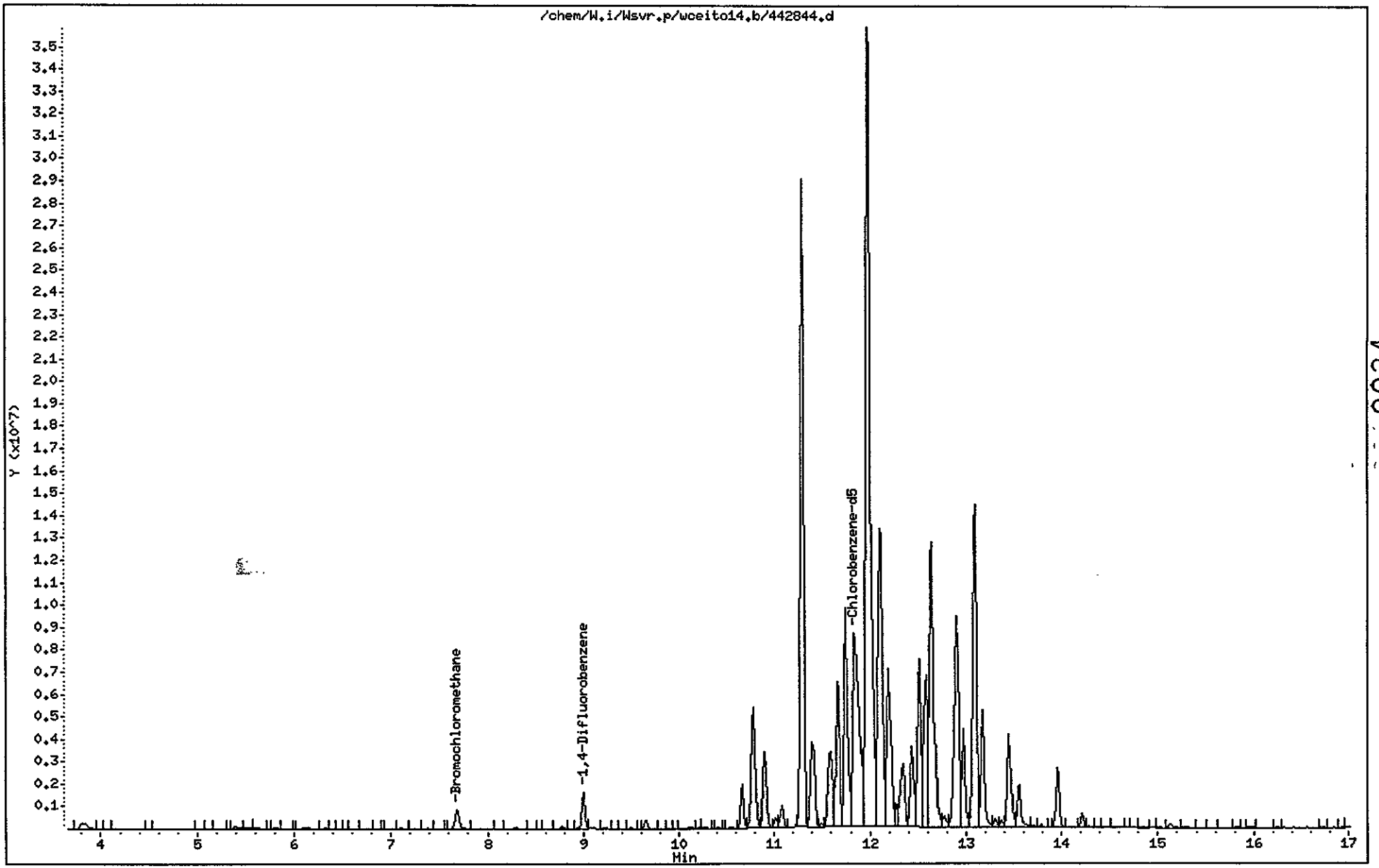
GC Column: DB-1 ID: 0.35 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) PPBV	Q
74-87-3	Chloromethane	0.64	
75-01-4	Vinyl Chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.59	
75-09-2	Methylene Chloride	1.1	
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
56-23-5	Carbon Tetrachloride	0.50	U
71-43-2	Benzene	1.2	
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-88-3	Toluene	18	
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	39	
1330-20-7	Xylene (total)	21	
100-42-5	Styrene	0.50	U
1330-20-7	Xylene (m,p)	21	
95-47-6	Xylene (o)	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U

Data File: /chem/W.i/Wsvr.p/wceito14.b/442844.d
Date : 24-JAN-2001 11:09
Client ID: CAEA01170108
Sample Info: 442844;029ACAEA0170108;81391;012409
Purge Volume: 200.0
Column phase: DB-1

Instrument: W.i
Operator: GHM
Column diameter: 0.35



0034

STL Burlington

AIR TOXICS QUANTITATION REPORT

Data file : /chem/W.i/Wsvr.p/wceito14.b/442844.d
Lab Smp Id: 442844 Client Smp ID: CAEA01170108
Inj Date : 24-JAN-2001 11:09
Operator : GMM Inst ID: W.i
Smp Info : 442844;029ACAEA01170108;81391;012409
Misc Info : 100%
Comment :
Method : /chem/W.i/Wsvr.p/wceito14.b/ato14.m
Meth Date : 29-Jan-2001 09:45 mim Quant Type: ISTD
Cal Date : 18-DEC-2000 13:44 Cal File: ce010i2.d
Als bottle: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ACCANA2.sub
Target Version: 3.50
Processing Host: chemsvr4

Concentration Formula: Amt * DF * X* Uf/Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
X	200.00000	method volume factor
Uf	1.00000	ng unit correction factor
Vo	200.00000	Sample Volume purged (mL)

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)
2	Chloromethane	50	4.055	3.955	(0.528)	13325	0.63867	0.64
4	Vinyl Chloride	62	Compound Not Detected.					
5	Bromomethane	94	Compound Not Detected.					
6	Chloroethane	64	Compound Not Detected.					
7	Trichlorofluoromethane	101	5.497	5.375	(0.716)	46396	0.58914	0.59(M)
9	Methylene Chloride	49	6.104	5.982	(0.795)	36533	1.07000	1.1
11	1,1-Dichloroethane	63	Compound Not Detected.					
12	cis-1,2-Dichloroethene	61	Compound Not Detected.					
* 13	Bromochloromethane	128	7.682	7.621	(1.000)	351656	10.0000	
14	Chloroform	83	Compound Not Detected.					
15	1,2-Dichloroethane	62	Compound Not Detected.					
16	1,1,1-Trichloroethane	97	Compound Not Detected.					
17	Benzene	78	8.775	8.744	(0.975)	99004	1.18452	1.2
18	Carbon Tetrachloride	117	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	FINAL (ppbv)
*	19 1,4-Difluorobenzene	114	9.002	8.956	(1.000)	1464190	10.0000	
	20 1,2-Dichloropropane	63	Compound Not Detected.					
	21 Trichloroethene	95	Compound Not Detected.					
	22 cis-1,3-Dichloropropene	75	Compound Not Detected.					
	23 trans-1,3-Dichloropropene	75	Compound Not Detected.					
	24 1,1,2-Trichloroethane	83	Compound Not Detected.					
	25 Toluene	92	10.672	10.656	(0.901)	1087798	18.4554	18
	27 Tetrachloroethene	166	Compound Not Detected.					
*	28 Chlorobenzene-d5	117	11.840	11.840	(1.000)	1486195	10.0000	
	29 Chlorobenzene	112	Compound Not Detected.					
	30 Ethylbenzene	91	12.113	12.098	(1.023)	5312008	39.1697	39
	31 Xylene (m,p)	106	12.220	12.219	(1.032)	1030459	21.0207	21
	32 Styrene	104	Compound Not Detected.					
M	33 Xylene (total)	106				1030459	21.0207	21
	34 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					
	35 Xylene (o)	106	Compound Not Detected.					
	38 1,3-Dichlorobenzene	146	Compound Not Detected.					
	39 1,4-Dichlorobenzene	146	Compound Not Detected.					
	40 1,2-Dichlorobenzene	146	Compound Not Detected.					

QC Flag Legend

M - Compound response manually integrated.

mcm 01/29/01

Data File: /chem/W.i/Wsvr.p/wceito14.b/442844.d

Date : 24-JAN-2001 11:09

Client ID: CAEA01170108

Instrument: W.i

Sample Info: 442844;029ACAEA0117010B;81391;012409

Purge Volume: 200.0

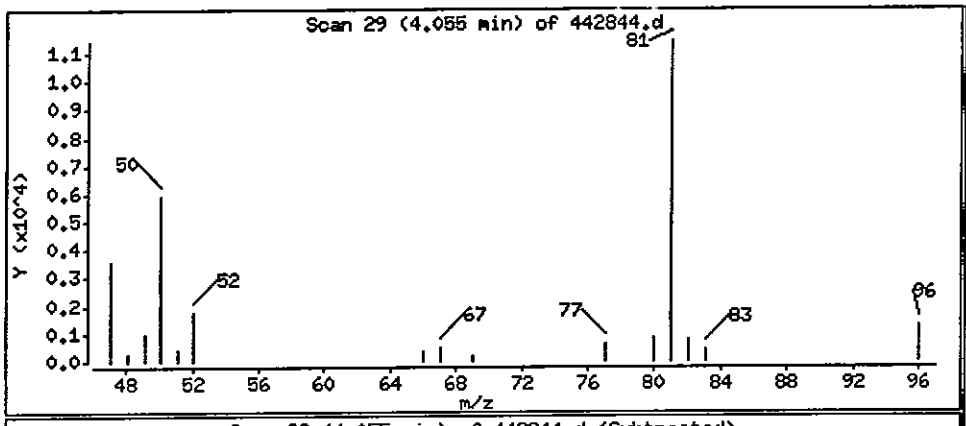
Operator: GHH

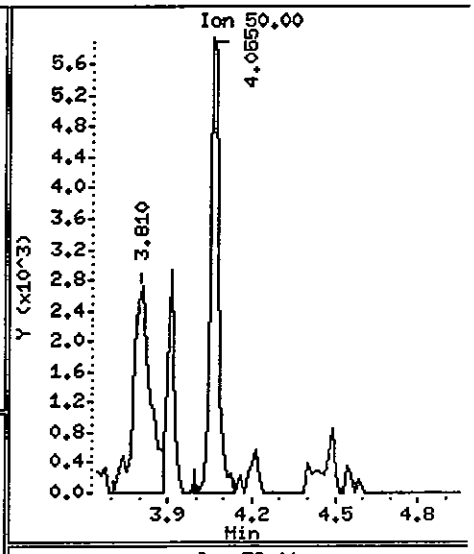
Column phase: DB-1

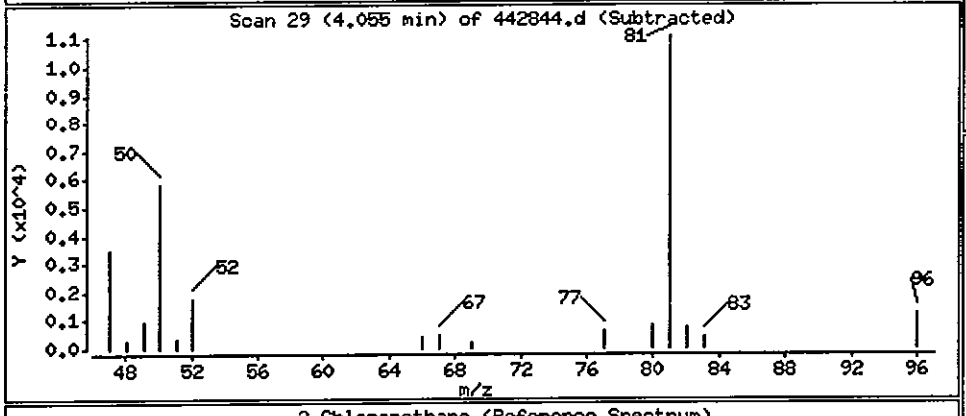
Column diameter: 0.35

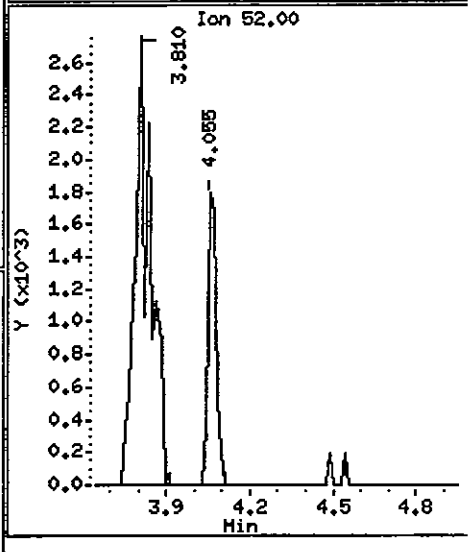
2 Chloromethane

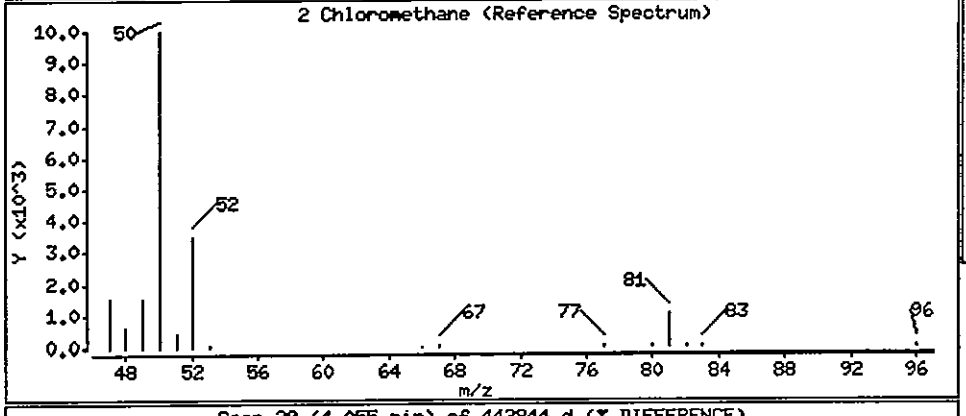
Concentration: 0.64 ppbv

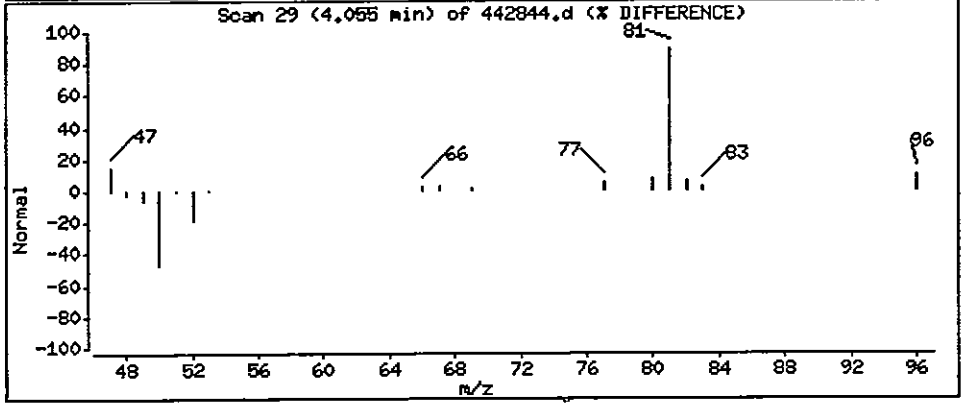












Data File: /chem/W.i/Wsvr.p/wceito14.b/442844.d

Date : 24-JAN-2001 11:09

Client ID: CAEA01170108

Instrument: W.i

Sample Info: 442844;029ACAEA0170108;81391;012409

Purge Volume: 200.0

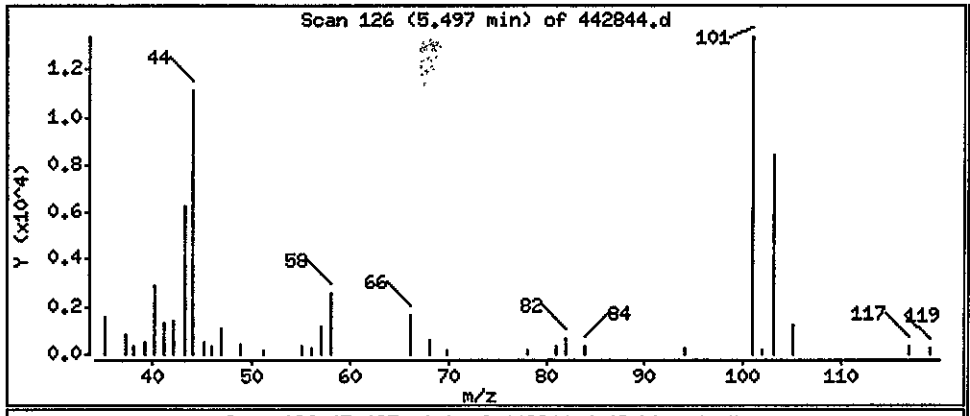
Operator: GHM

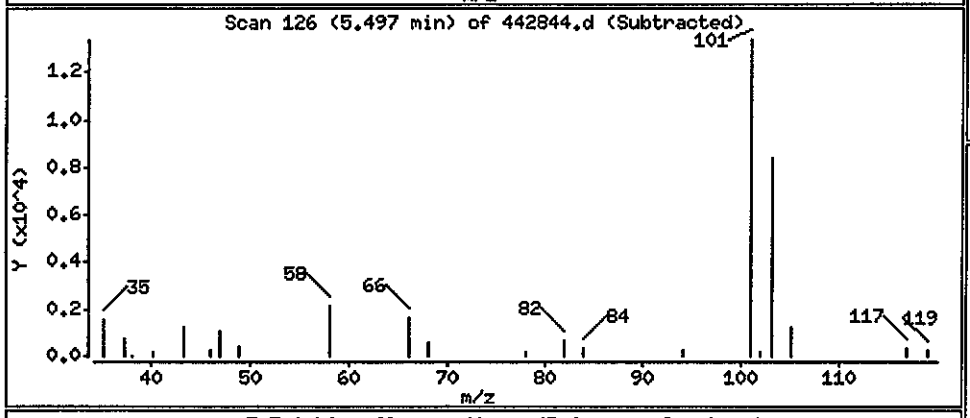
Column phase: DB-1

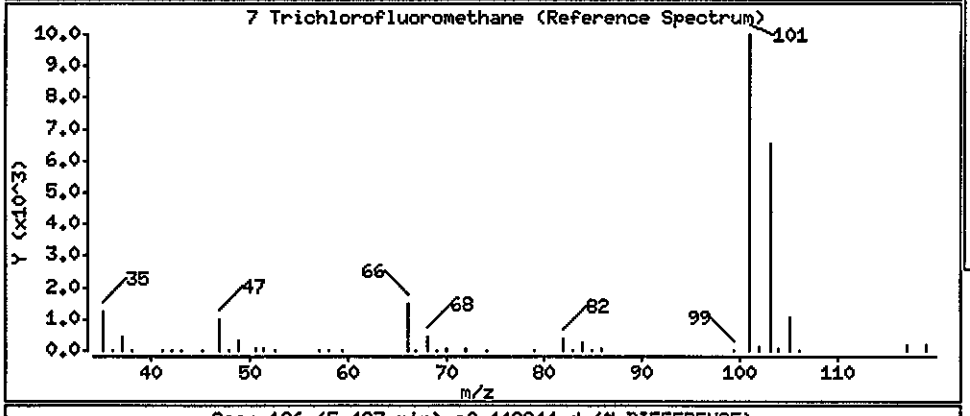
Column diameter: 0.35

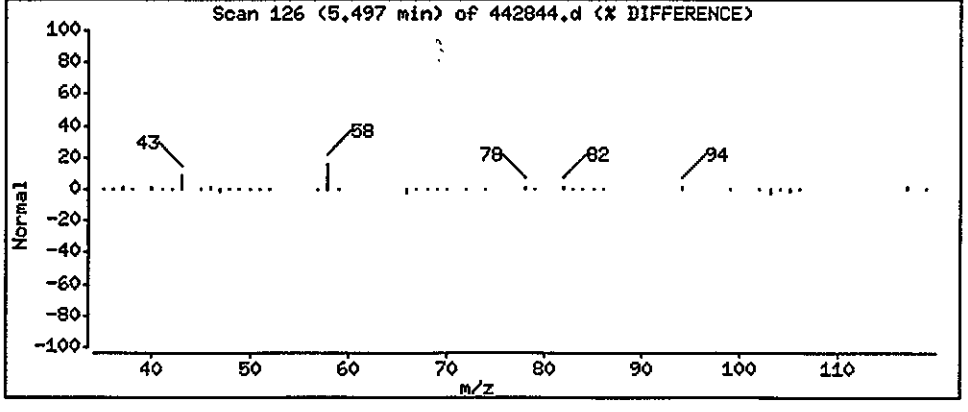
7 Trichlorofluoromethane

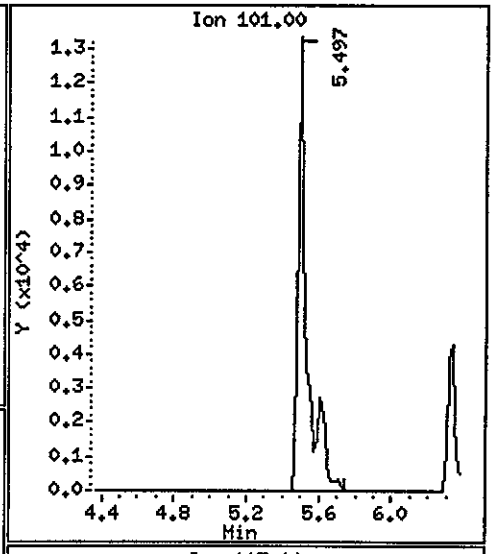
Concentration: 0.59 ppbv

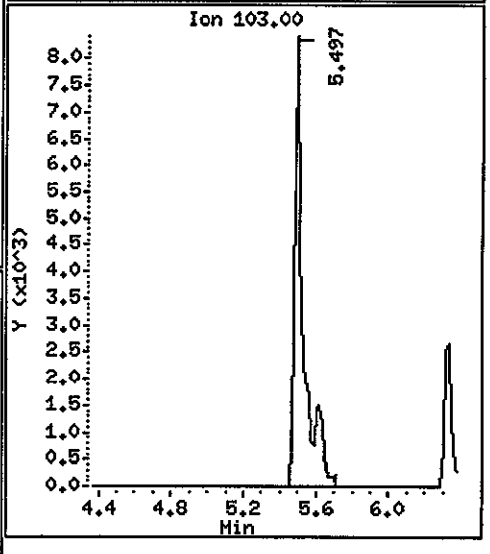












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Date : 24-JAN-2001 11:09

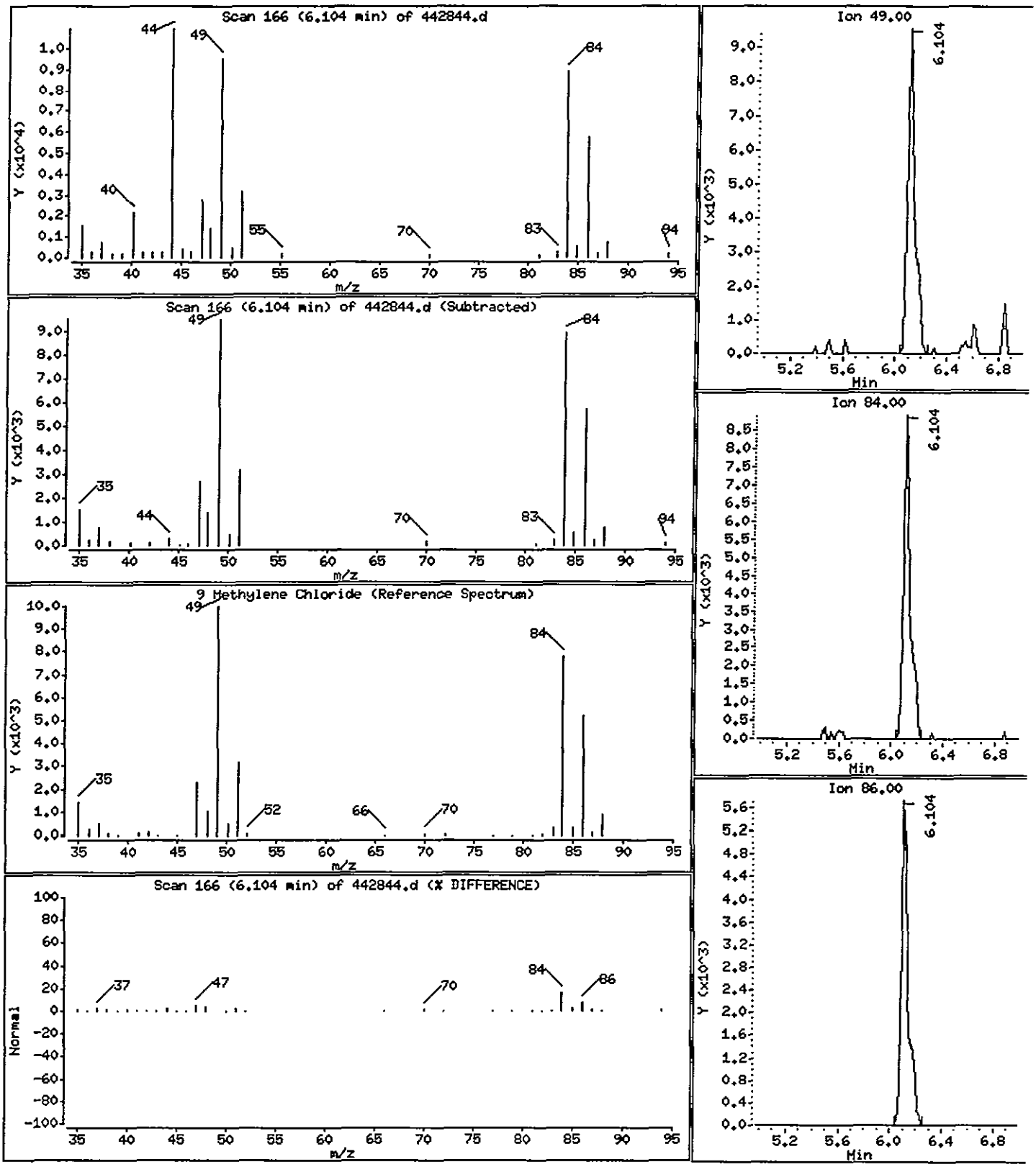
Client ID: CAEA01170108 Instrument: W.i

Sample Info: 442844;029ACAEA01170108;81391;012409

Purge Volume: 200.0 Operator: GMH

Column phase: DB-1 Column diameter: 0.35

9 Methylene Chloride Concentration: 1.1 ppbv



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Date : 24-JAN-2001 11:09

Client ID: CAEA01170108

Instrument: W.i

Sample Info: 442844;029ACAEA01170108;81391;012409

Purge Volume: 200.0

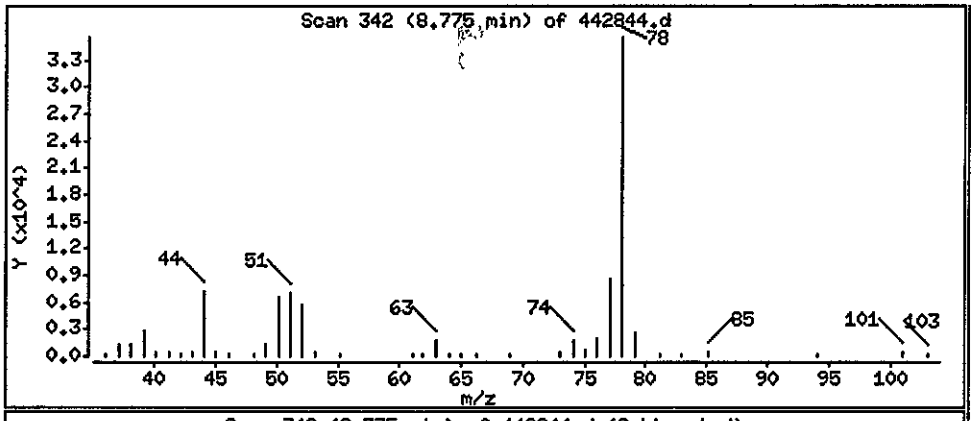
Operator: CHM

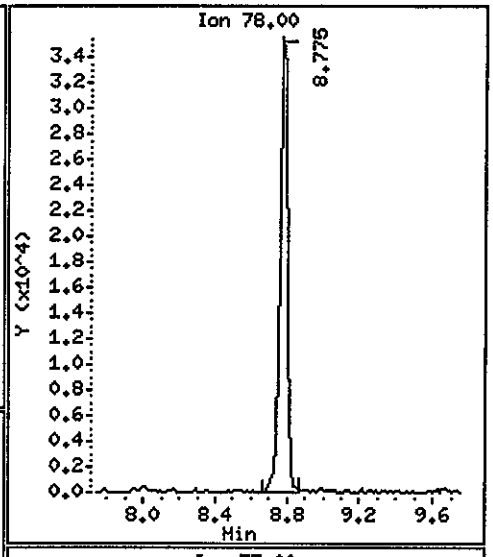
Column phase: DB-1

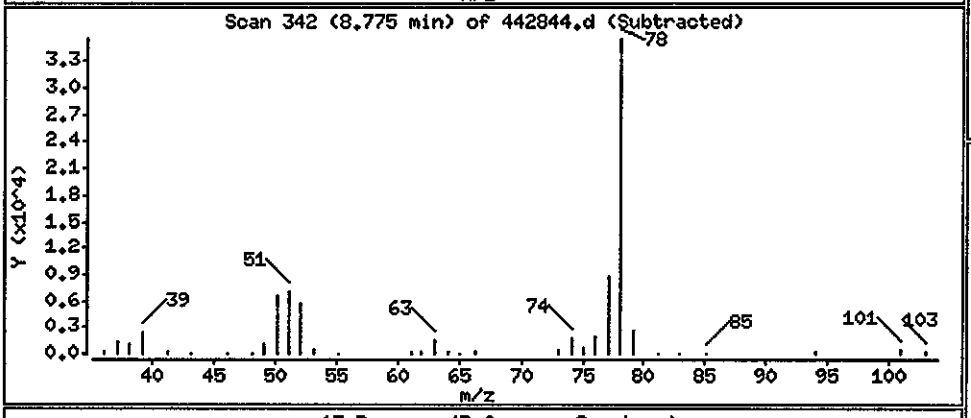
Column diameter: 0.35

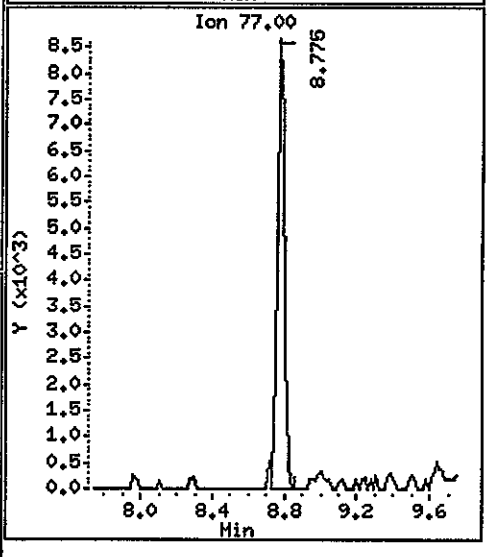
17 Benzene

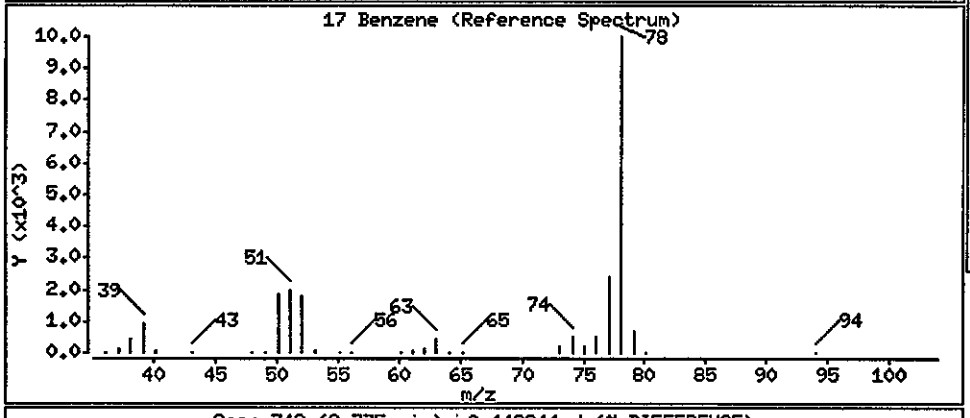
Concentration: 1.2 ppbv

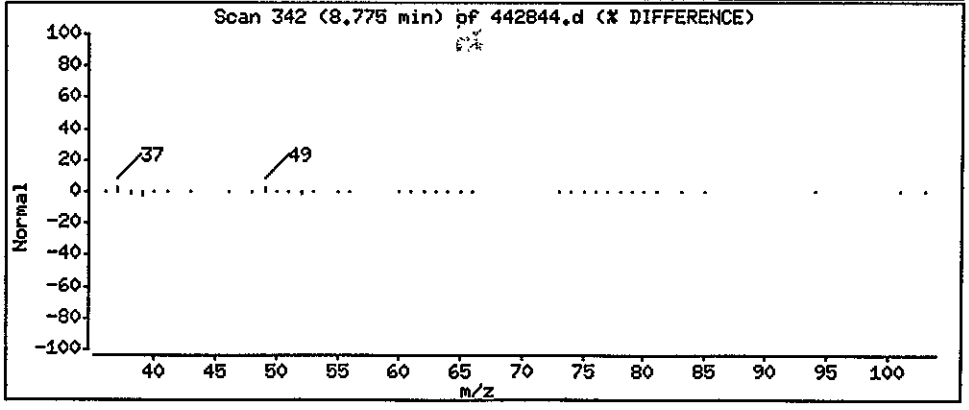












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Date : 24-JAN-2001 11:09

Client ID: CAEA01170108

Instrument: W.i

Sample Info: 442844;029ACAEA01170108;81391;012409

Purge Volume: 200.0

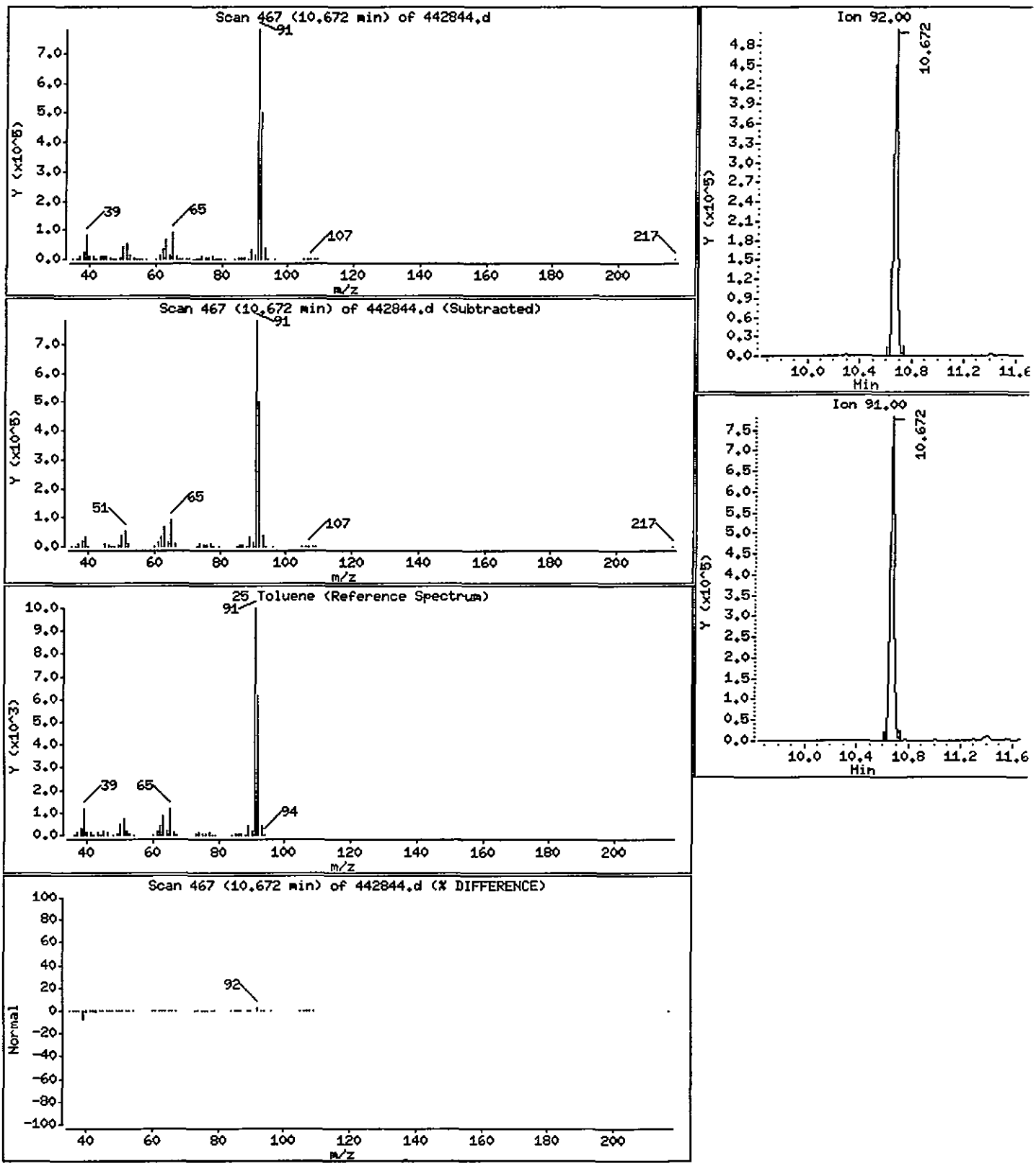
Operator: GMH

Column phase: DB-1

Column diameter: 0.35

25 Toluene

Concentration: 18 ppbv



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Date : 24-JAN-2001 11:09

Client ID: CAEA01170108

Instrument: W.i

Sample Info: 442844;029ACAEA01170108;81391;012409

Purge Volume: 200.0

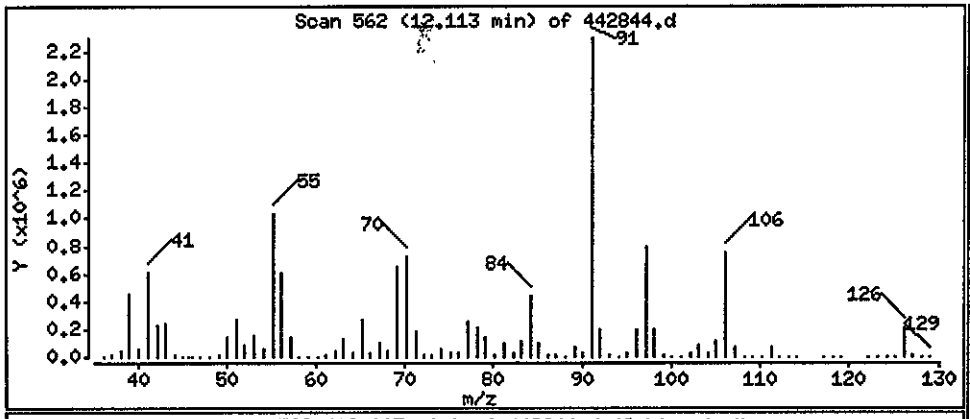
Operator: GMM

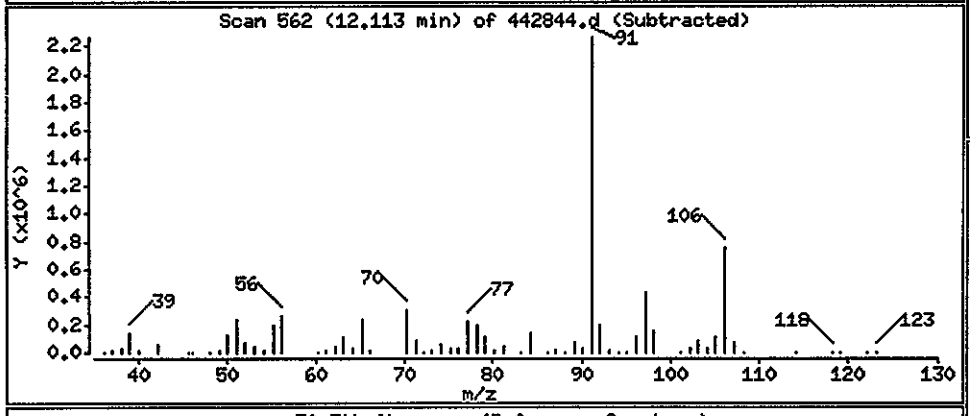
Column phase: DB-1

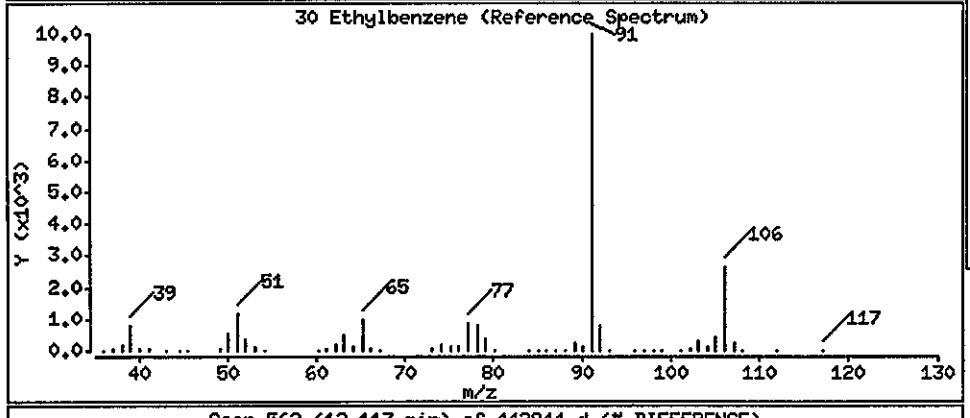
Column diameter: 0.35

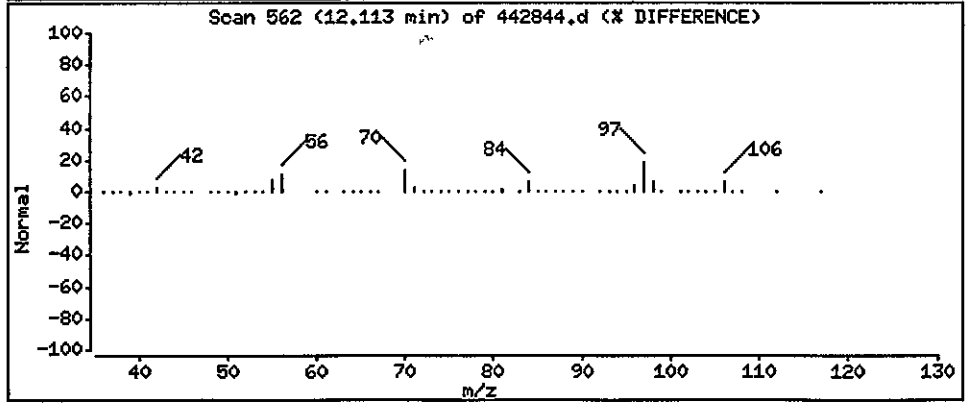
30 Ethylbenzene

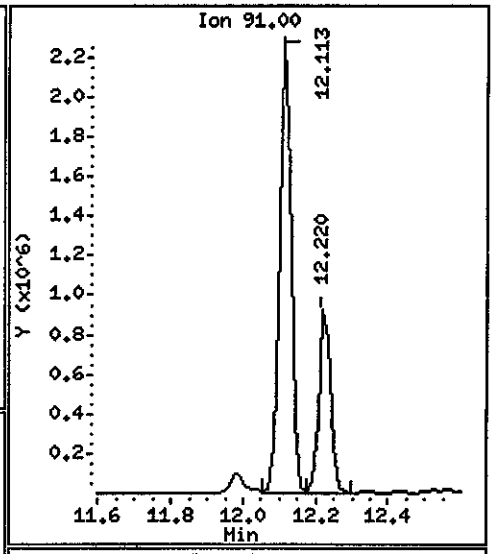
Concentration: 39 ppbv

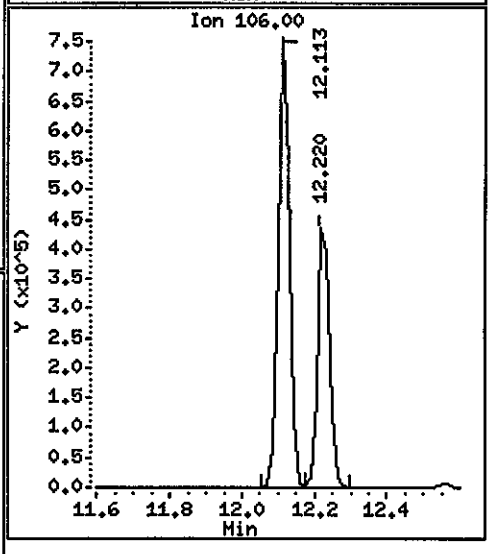












Data File: /chem/W.i/Wsvr.p/wceito14.b/442844.d

Date : 24-JAN-2001 11:09

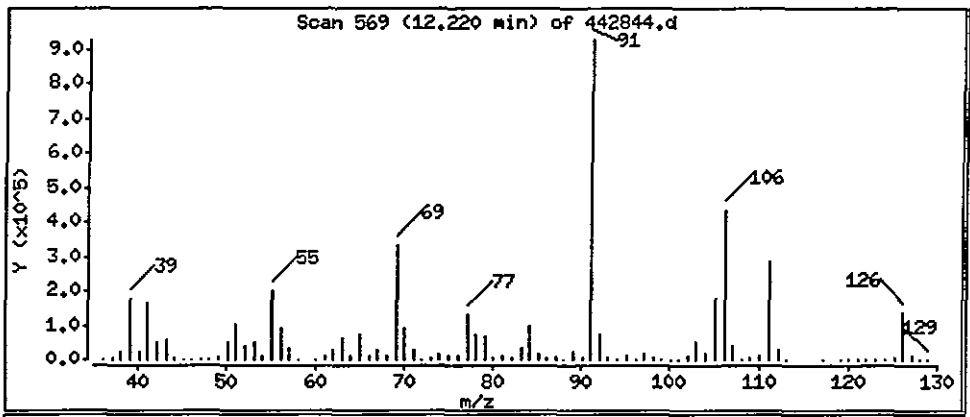
Client ID: CAEA01170108 Instrument: W.i

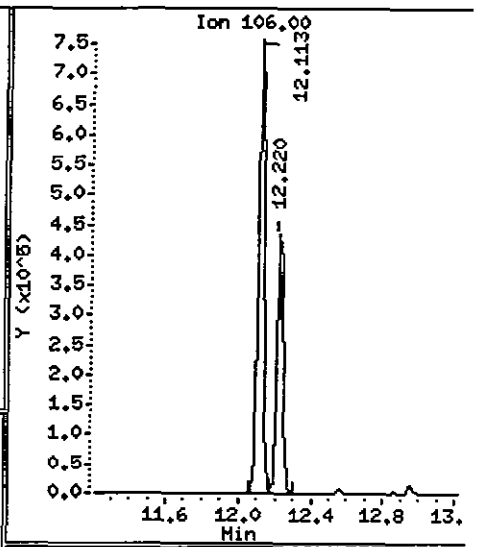
Sample Info: 442844;029ACAEA01170108;81391;012409

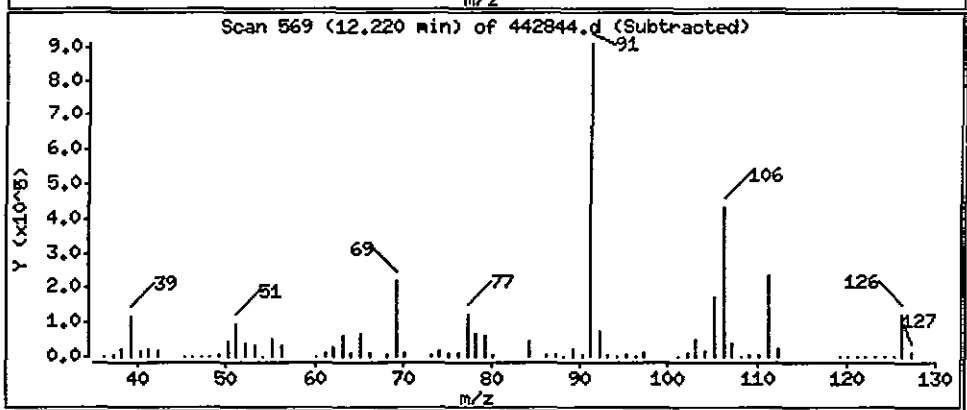
Purge Volume: 200.0 Operator: GMM

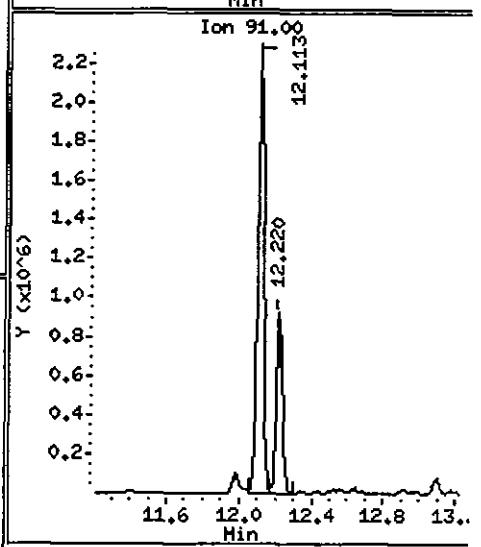
Column phase: DB-1 Column diameter: 0.35

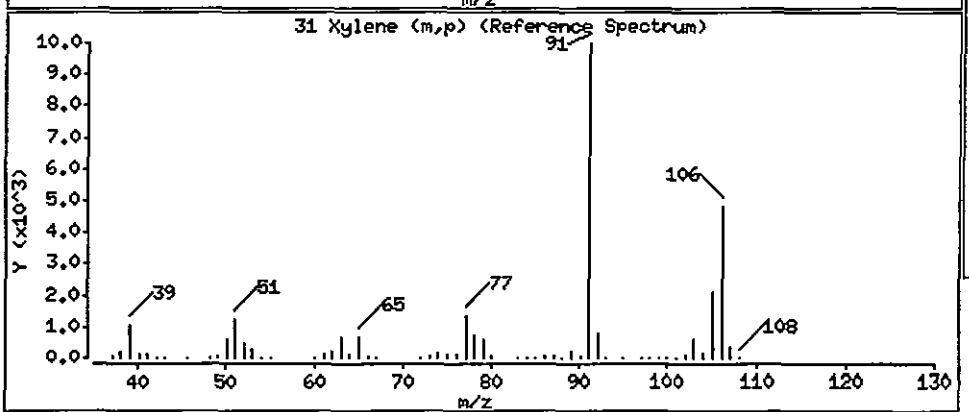
31 Xylene (m,p) Concentration: 21 ppbv

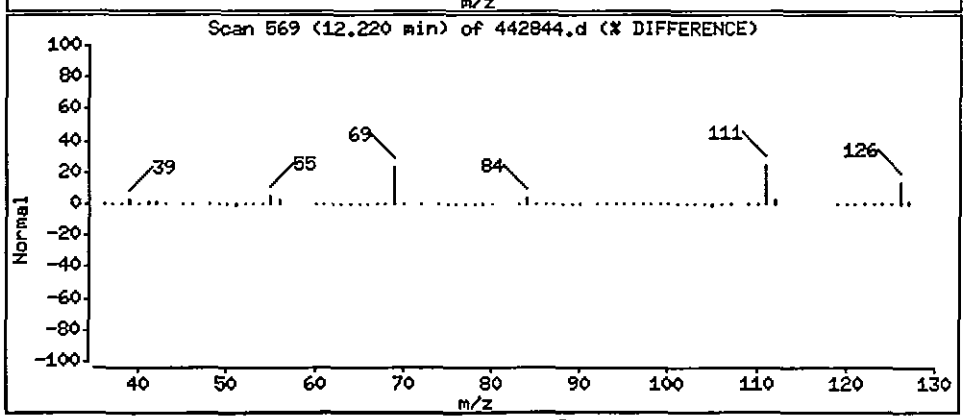












Data File: /chem/W.i/Wsvr.p/wceito14.b/442844.d

Date : 24-JAN-2001 11:09

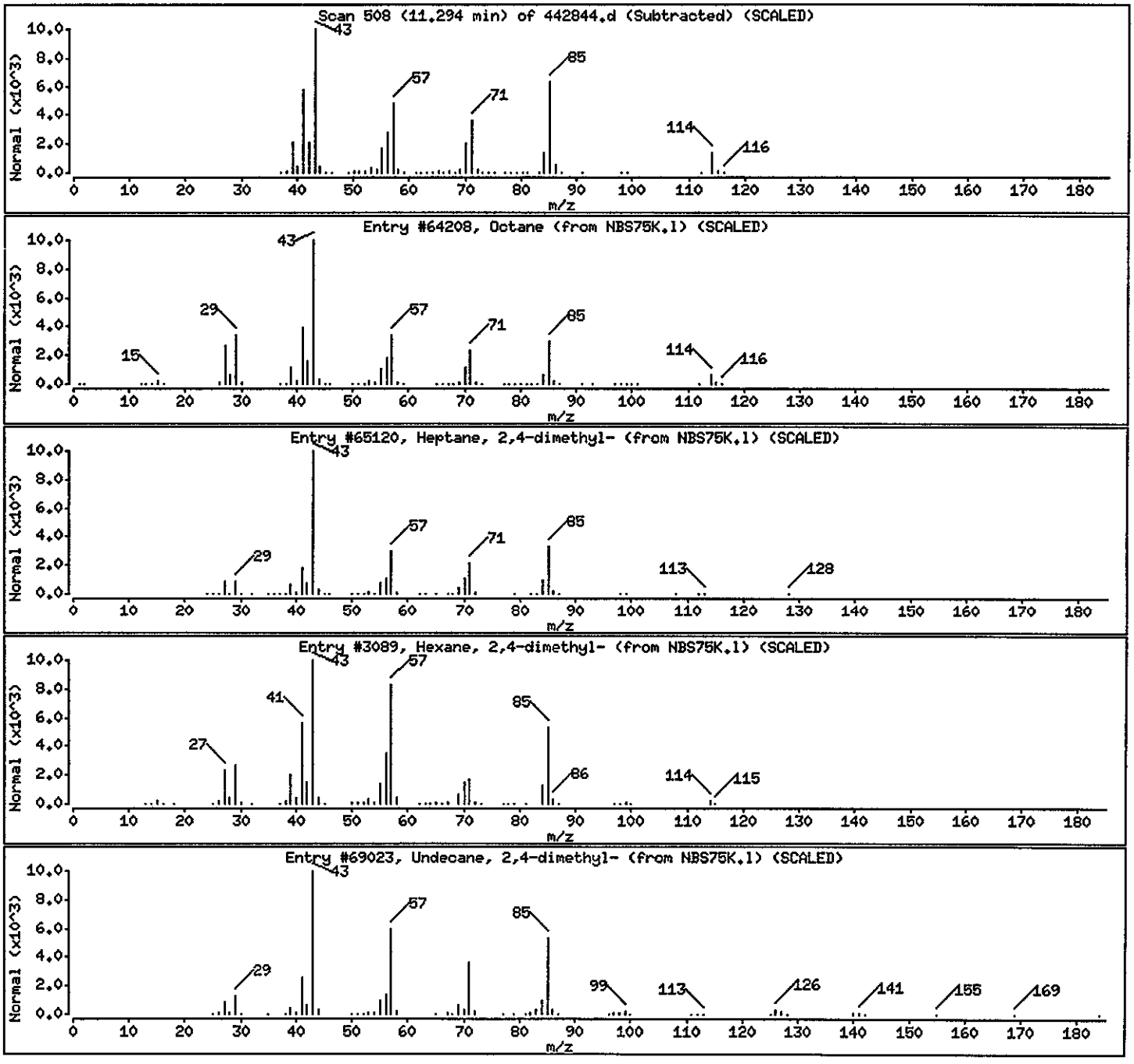
Client ID: CAEA01170108 Instrument: W.i

Sample Info: 442844;029ACAEA01170108;81391;012409

Purge Volume: 200.0 Operator: GHM

Column phase: DB-1 Column diameter: 0.35

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown aliphatic compound						
Octane	111-65-9	NBS75K.l	64208	91	C8H18	114
Heptane, 2,4-dimethyl-	2213-23-2	NBS75K.l	65120	64	C9H20	128
Hexane, 2,4-dimethyl-	589-43-5	NBS75K.l	3089	59	C8H18	114
Undecane, 2,4-dimethyl-	17312-80-0	NBS75K.l	69023	50	C13H28	184



Data File: /chem/W.i/Wsvr.p/wceito14.b/442844.d

Date : 24-JAN-2001 11:09

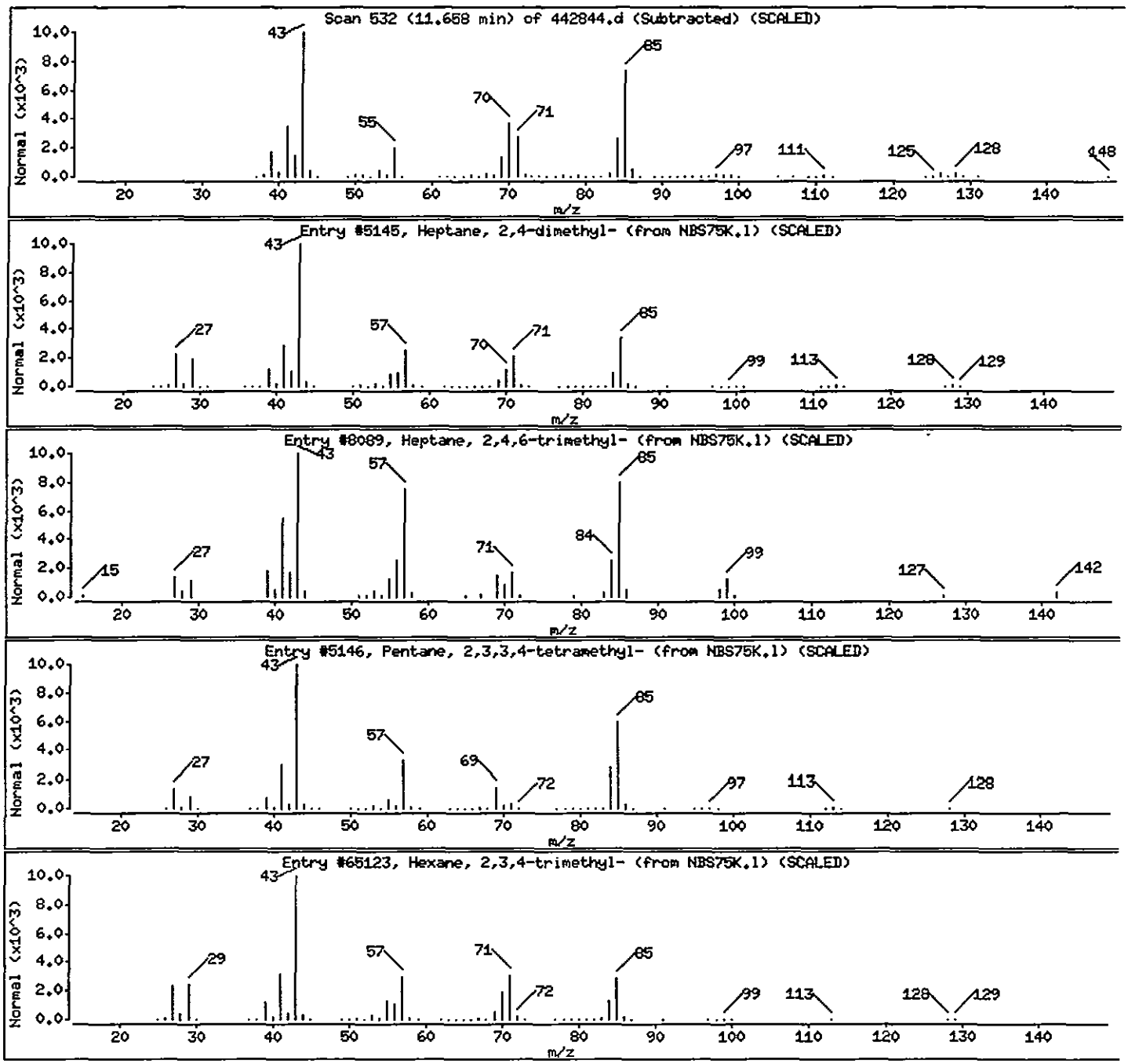
Client ID: CAEA01170108 Instrument: W.i

Sample Info: 442844;029ACAEA01170108;81391;012409

Purge Volume: 200.0 Operator: GMH

Column phase: DB-1 Column diameter: 0.35

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown aliphatic compound						
Heptane, 2,4-dimethyl-	2213-23-2	NBS75K.l	5145	72	C9H20	128
Heptane, 2,4,6-trimethyl-	2613-61-8	NBS75K.l	8089	72	C10H22	142
Pentane, 2,3,3,4-tetramethyl-	16747-38-9	NBS75K.l	5146	59	C9H20	128
Hexane, 2,3,4-trimethyl-	921-47-1	NBS75K.l	65123	59	C9H20	128



Data File: /chem/W.i/Wsvr.p/wceito14.b/442844.d

Date : 24-JAN-2001 11:09

Client ID: CAEA01170108

Instrument: W.i

Sample Info: 442844;029ACAEA01170108;81391;012409

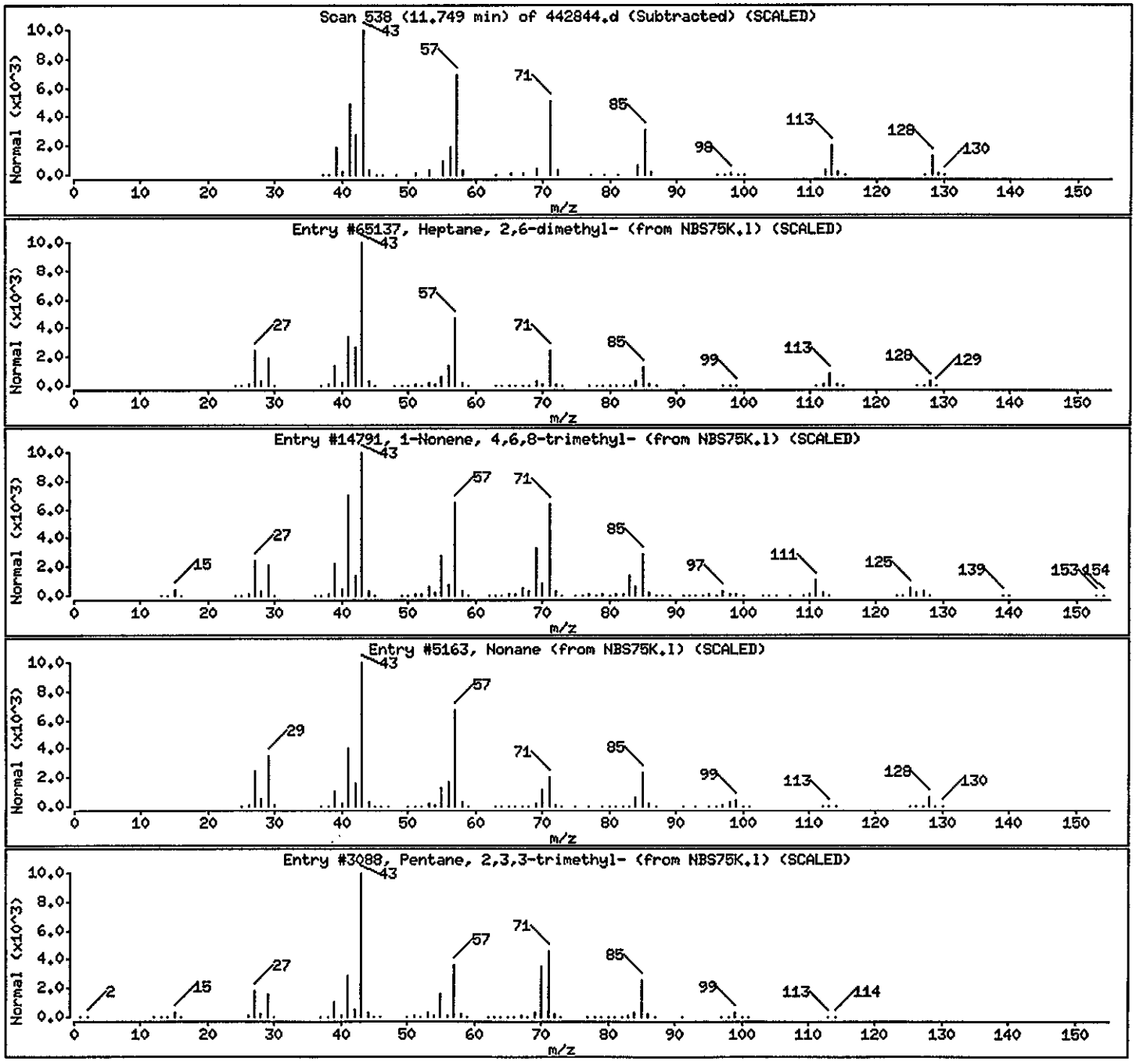
Purge Volume: 200.0

Operator: GMM

Column phase: DB-1

Column diameter: 0.35

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown aliphatic compound						
Heptane, 2,6-dimethyl-	1072-05-5	NBS75K.l	65137	91	C9H20	128
1-Nonene, 4,6,8-trimethyl-	54410-98-9	NBS75K.l	14791	50	C12H24	168
Nonane	111-84-2	NBS75K.l	5163	49	C9H20	128
Pentane, 2,3,3-trimethyl-	560-21-4	NBS75K.l	3088	47	C8H18	114



Data File: /chem/W.i/Wsvr.p/wceito14.b/442844.d

Date : 24-JAN-2001 11:09

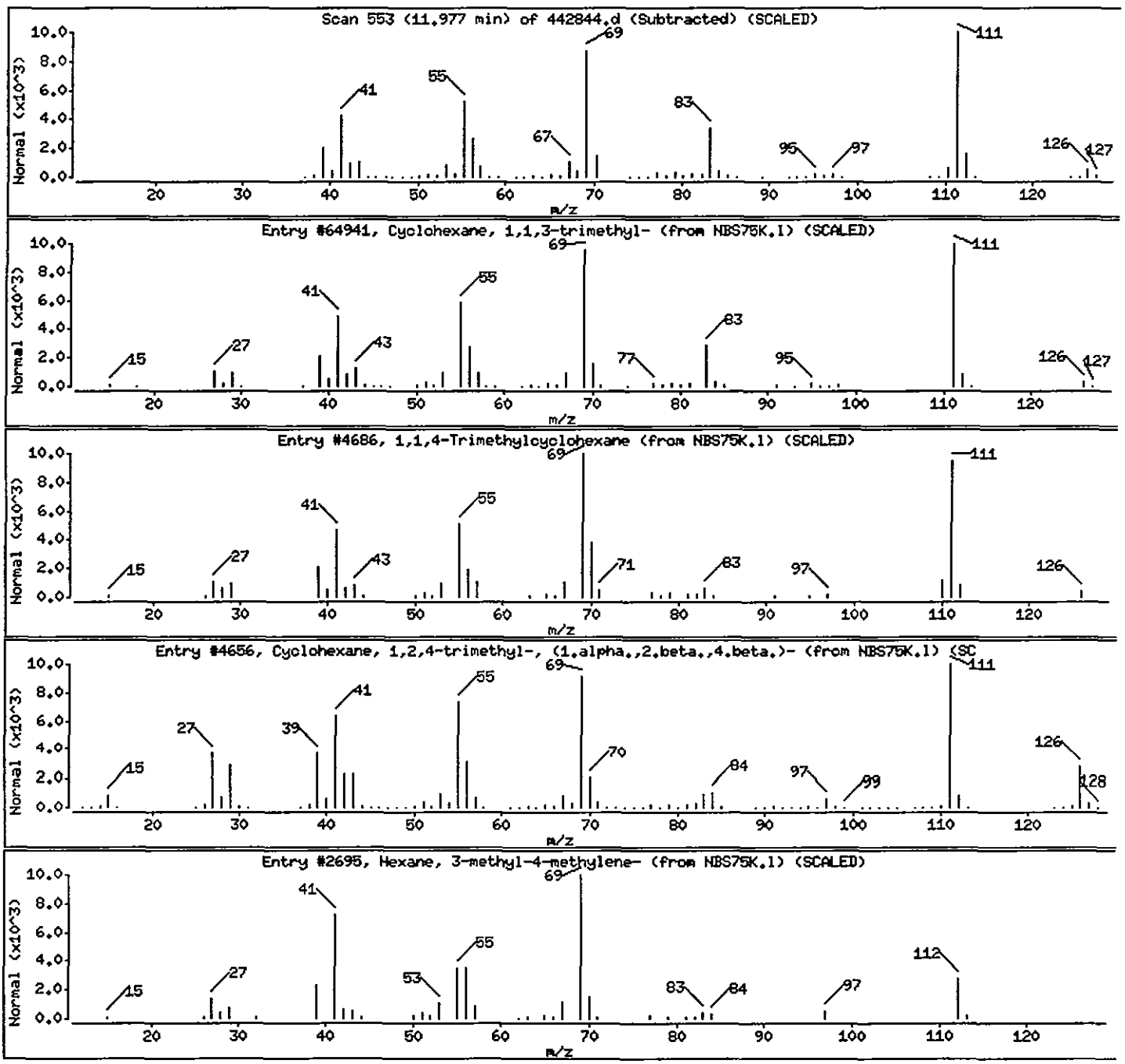
Client ID: CAEA01170108 Instrument: W.i

Sample Info: 442844;029ACAEA01170108;81391;012409

Purge Volume: 200.0 Operator: GMH

Column phase: DB-1 Column diameter: 0.35

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown cycloalkane						
Cyclohexane, 1,1,3-trimethyl-	3073-66-3	NBS75K.1	64941	90	C9H18	126
1,1,4-Trimethylcyclohexane	7094-27-1	NBS75K.1	4686	64	C9H18	126
Cyclohexane, 1,2,4-trimethyl-, (1.alpha.	7667-60-9	NBS75K.1	4656	59	C9H18	126
Hexane, 3-methyl-4-methylene-	3404-67-9	NBS75K.1	2695	55	C8H16	112



Data File: /chem/W.i/Wsvr.p/wceito14.b/442844.d

Date : 24-JAN-2001 11:09

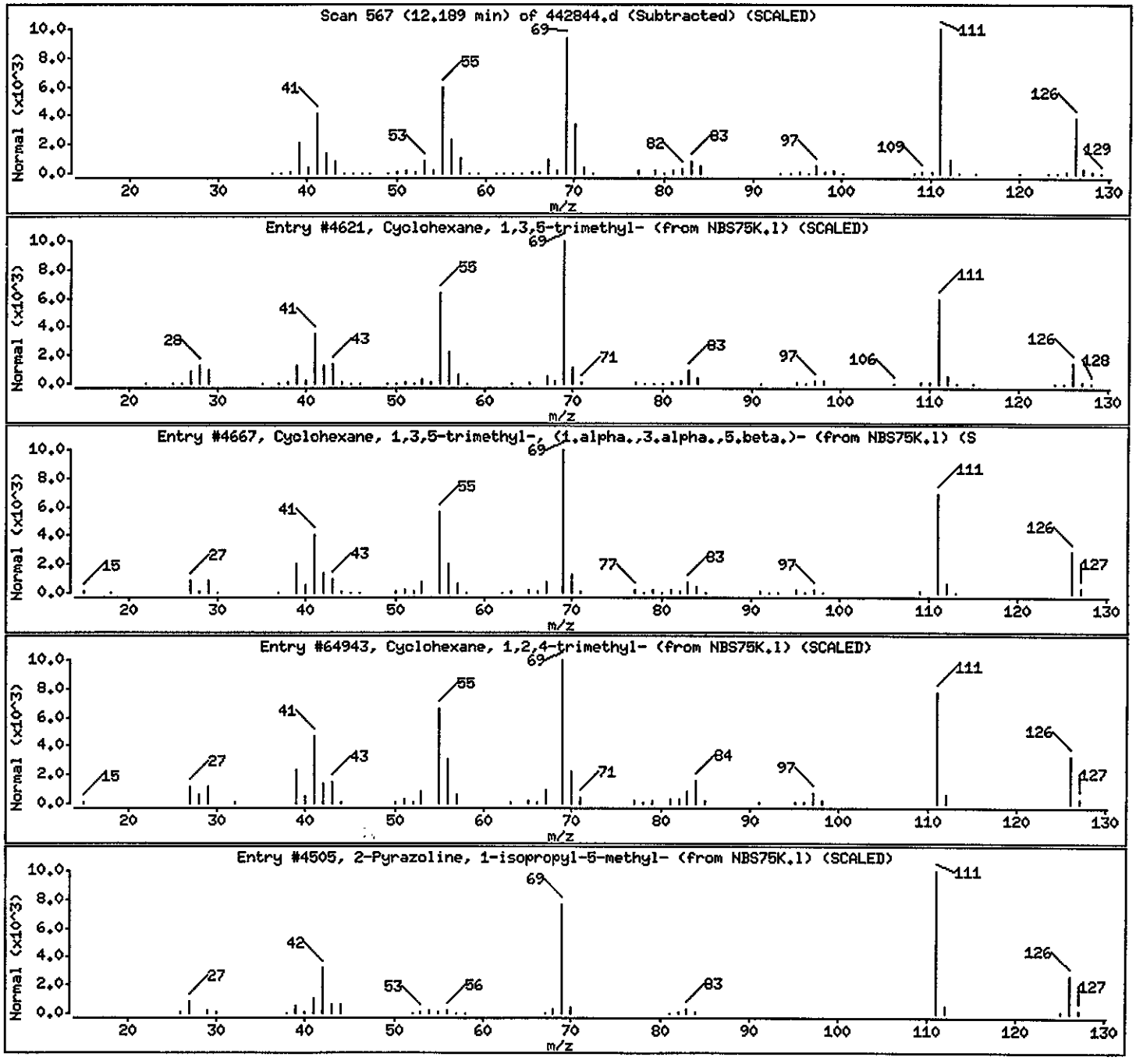
Client ID: CAEA01170108 Instrument: W.i

Sample Info: 442844;029ACAEA01170108;81391;012409

Purge Volume: 200.0 Operator: GMM

Column phase: DB-1 Column diameter: 0.35

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown cycloalkane						
Cyclohexane, 1,3,5-trimethyl-	1839-63-0	NBS75K.l	4621	91	C9H18	126
Cyclohexane, 1,3,5-trimethyl-, (1.alpha.	1795-26-2	NBS75K.l	4667	91	C9H18	126
Cyclohexane, 1,2,4-trimethyl-	2234-75-5	NBS75K.l	64943	90	C9H18	126
2-Pyrazoline, 1-isopropyl-5-methyl-	26964-54-5	NBS75K.l	4505	72	C7H14N2	126



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Date : 24-JAN-2001 11:09

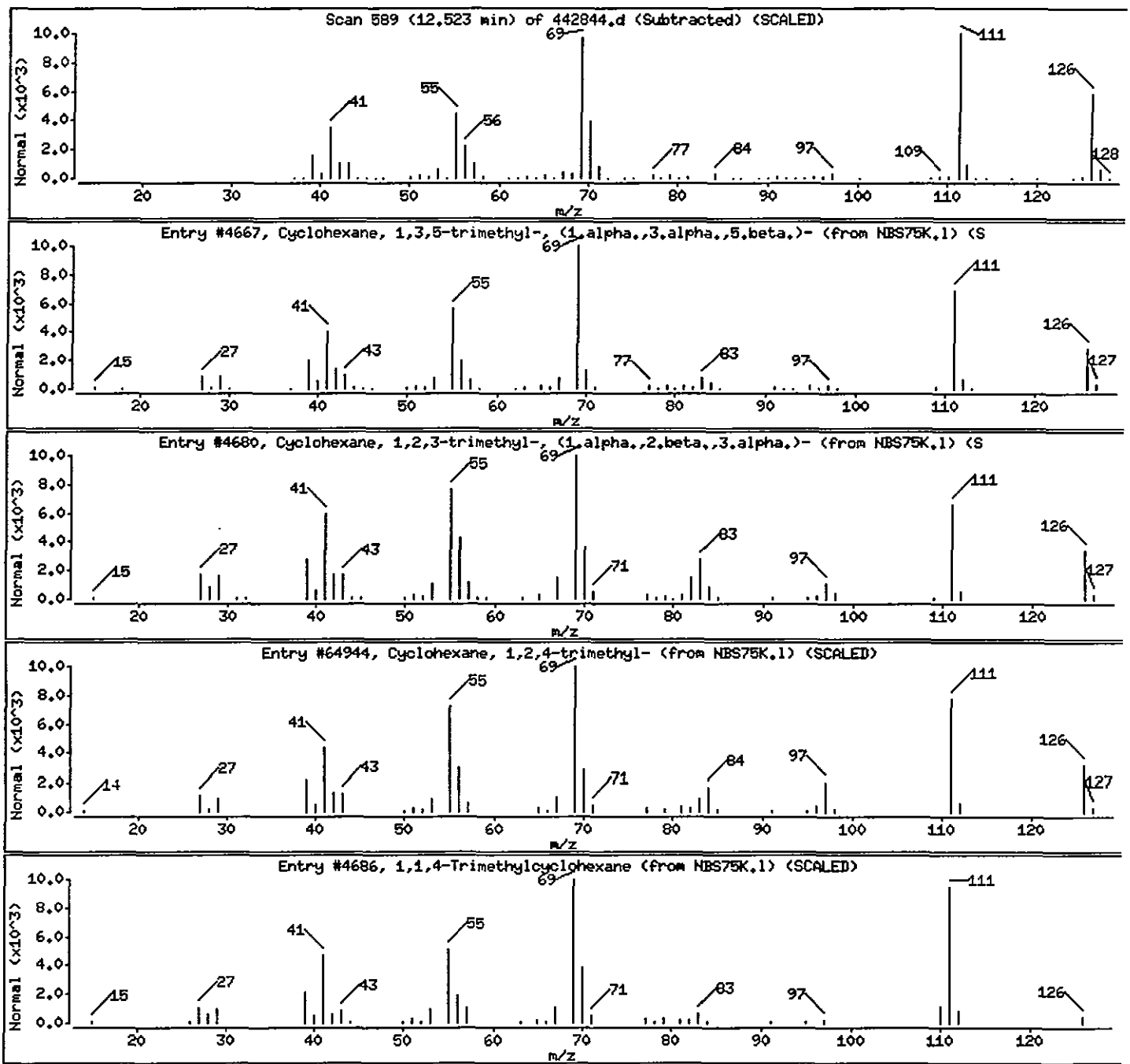
Client ID: CAEA01170108 Instrument: W.i

Sample Info: 442844;029ACAEA01170108;81391;012409

Purge Volume: 200.0 Operator: GMH

Column phase: DB-1 Column diameter: 0.35

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown cycloalkane						
Cyclohexane, 1,3,5-trimethyl-, (1.alpha.	1795-26-2	NBS75K.l	4667	87	C9H18	126
Cyclohexane, 1,2,3-trimethyl-, (1.alpha.	1678-81-5	NBS75K.l	4680	78	C9H18	126
Cyclohexane, 1,2,4-trimethyl-	2234-75-5	NBS75K.l	64944	72	C9H18	126
1,1,4-Trimethylcyclohexane	7094-27-1	NBS75K.l	4686	64	C9H18	126



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Date : 24-JAN-2001 11:09

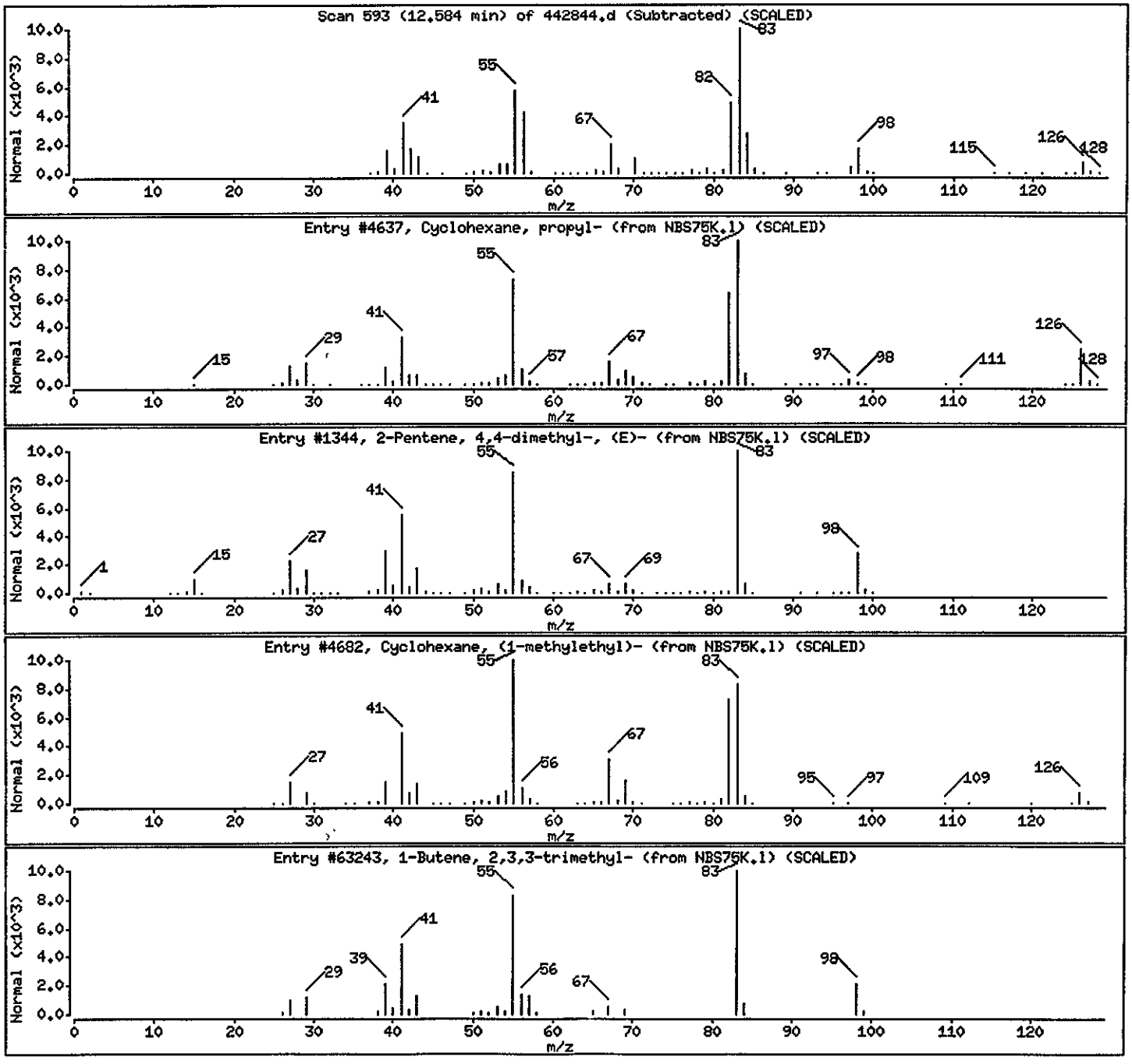
Client ID: CAEA01170108 Instrument: W.i

Sample Info: 442844;029ACAEA01170108;81391;012409

Purge Volume: 200.0 Operator: GMM

Column phase: DB-1 Column diameter: 0.35

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Cyclohexane, propyl-	1678-92-8	NBS75K.l	4637	50	C9H18	126
2-Pentene, 4,4-dimethyl-, (E)-	690-08-4	NBS75K.l	1344	38	C7H14	98
Cyclohexane, (1-methylethyl)-	696-29-7	NBS75K.l	4682	38	C9H18	126
1-Butene, 2,3,3-trimethyl-	594-56-9	NBS75K.l	63243	38	C7H14	98



Data File: /chem/W.i/Wsvr.p/wceito14.b/442844.d

Date : 24-JAN-2001 11:09

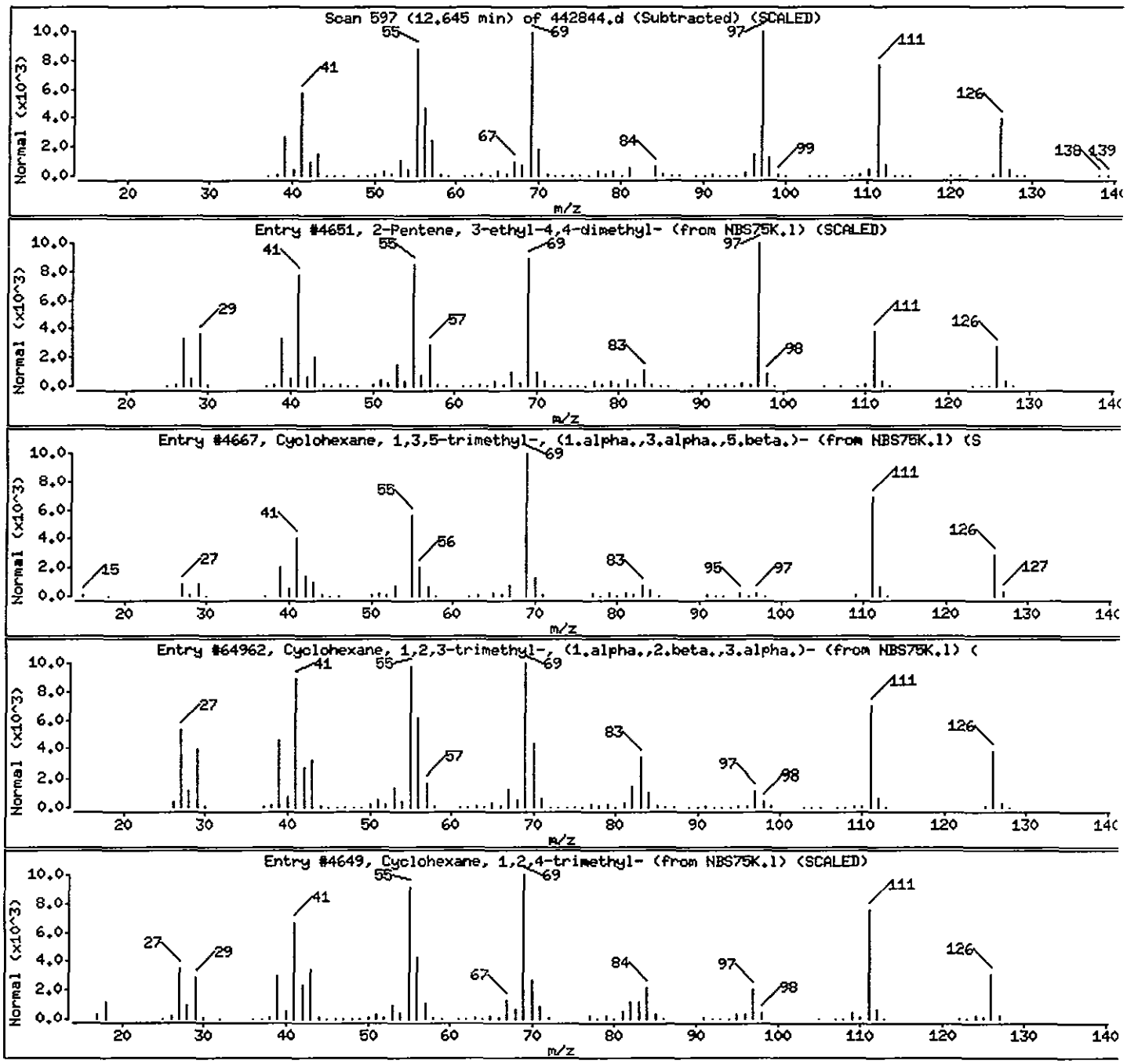
Client ID: CAEA01170108 Instrument: W.i

Sample Info: 442844;029ACAEA01170108;81391;012409

Purge Volume: 200.0 Operator: CMH

Column phase: DB-1 Column diameter: 0.35

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
2-Pentene, 3-ethyl-4,4-dimethyl-	53907-59-8	NBS75K.l	4651	68	C9H18	126
Cyclohexane, 1,3,5-trimethyl-, (1.alpha.	1795-26-2	NBS75K.l	4667	64	C9H18	126
Cyclohexane, 1,2,3-trimethyl-, (1.alpha.	1678-81-5	NBS75K.l	64962	64	C9H18	126
Cyclohexane, 1,2,4-trimethyl-	2234-75-5	NBS75K.l	4649	64	C9H18	126



Data File: /chem/W.i/Wsvr.p/wceito14.b/442844.d

Date : 24-JAN-2001 11:09

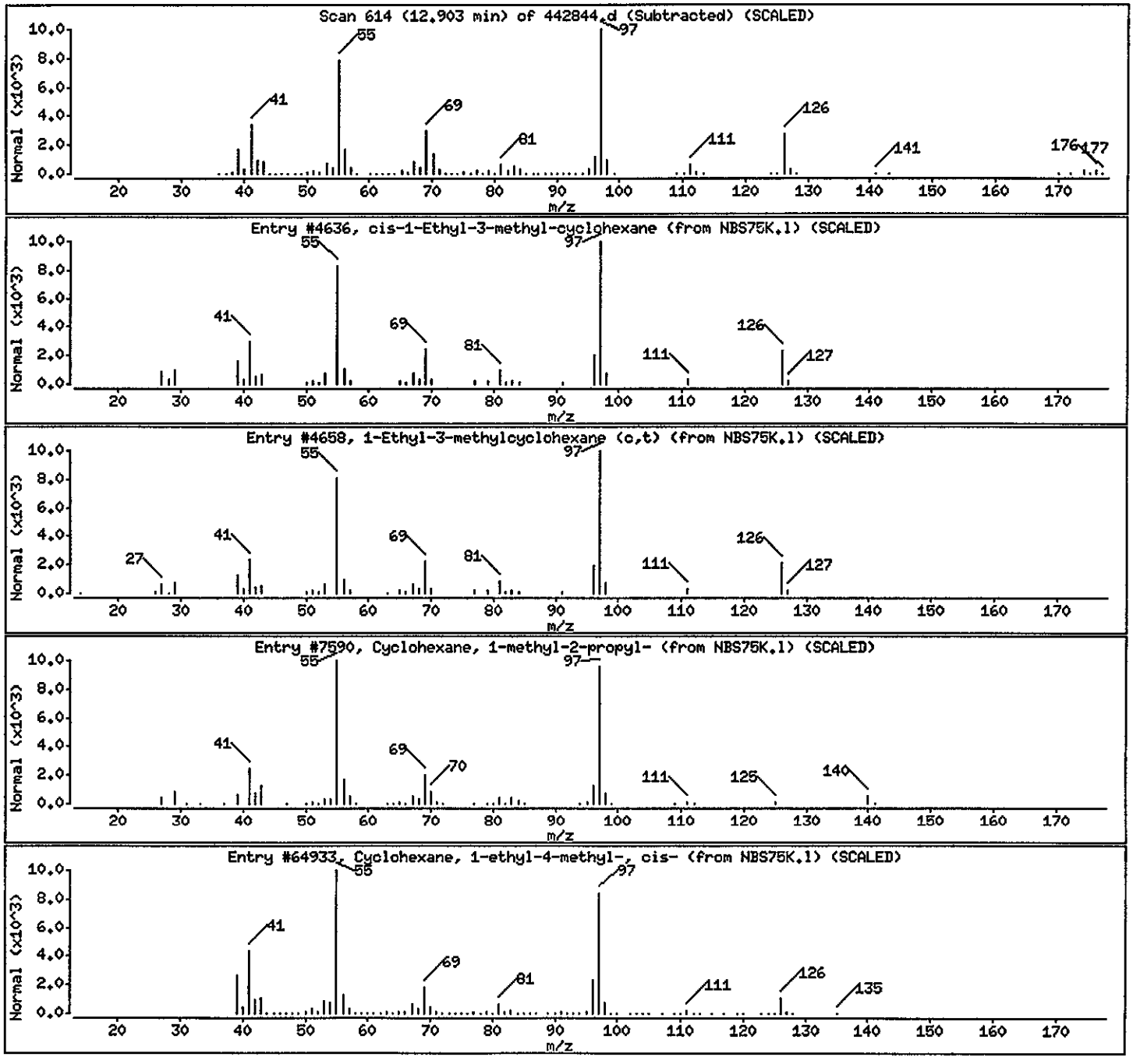
Client ID: CAEA01170108 Instrument: W.i

Sample Info: 442844:029ACAEA01170108:81391:012409

Purge Volume: 200.0 Operator: GMM

Column phase: DB-1 Column diameter: 0.35

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
cis-1-Ethyl-3-methyl-cyclohexane[b]	19489-10-2	NBS75K.l	4636	83	C9H18	126
1-Ethyl-3-methylcyclohexane (c,t)	3728-55-0	NBS75K.l	4658	83	C9H18	126
Cyclohexane, 1-methyl-2-propyl-	4291-79-6	NBS75K.l	7590	80	C10H20	140
Cyclohexane, 1-ethyl-4-methyl-, cis-	4926-78-7	NBS75K.l	64933	80	C9H18	126



Data File: /chem/W.i/Wsvr.p/wceito14.b/442844.d

Date : 24-JAN-2001 11:09

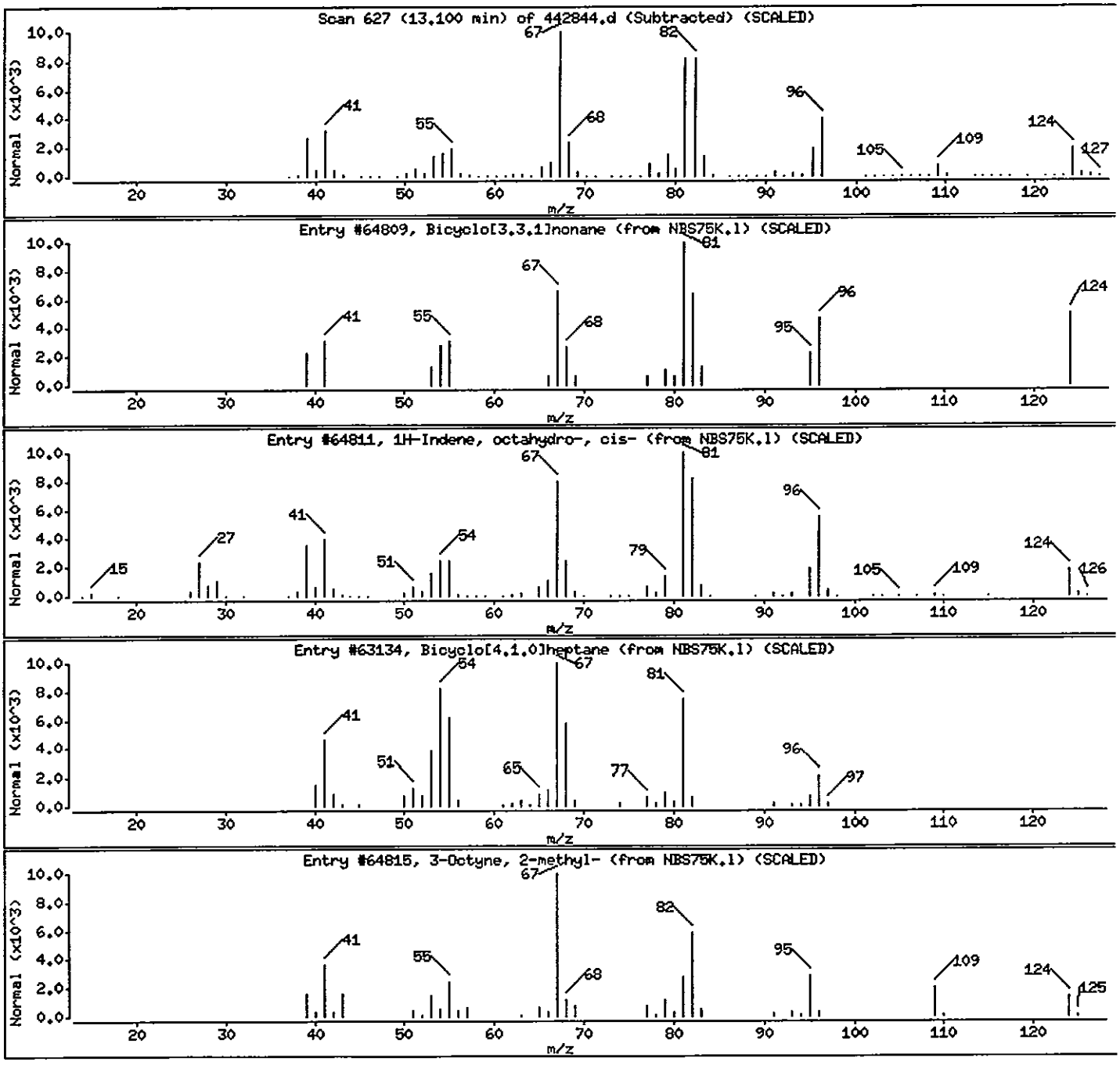
Client ID: CAEA01170108 Instrument: W.i

Sample Info: 442844;029ACAEA01170108;81391;012409

Purge Volume: 200.0 Operator: GMM

Column phase: DB-1 Column diameter: 0.35

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Bicyclo[3.3.1]nonane	280-65-9	NBS75K.l	64809	76	C9H16	124
1H-Indene, octahydro-, cis-	4551-51-3	NBS75K.l	64811	68	C9H16	124
Bicyclo[4.1.0]heptane	286-08-8	NBS75K.l	63134	47	C7H12	96
3-Octyne, 2-methyl-	55402-15-8	NBS75K.l	64815	46	C9H16	124



FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

ACCANA SAMPLE NO.

CAIA01170108

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 81391

Matrix: (soil/water) AIR Lab Sample ID: 442842

Sample wt/vol: 200 (g/mL) ML Lab File ID: 442842

Level: (low/med) LOW Date Received: 01/19/01

% Moisture: not dec. _____ Date Analyzed: 01/24/01

GC Column: DB-1 ID: 0.35 (mm) Dilution Factor: 1.0

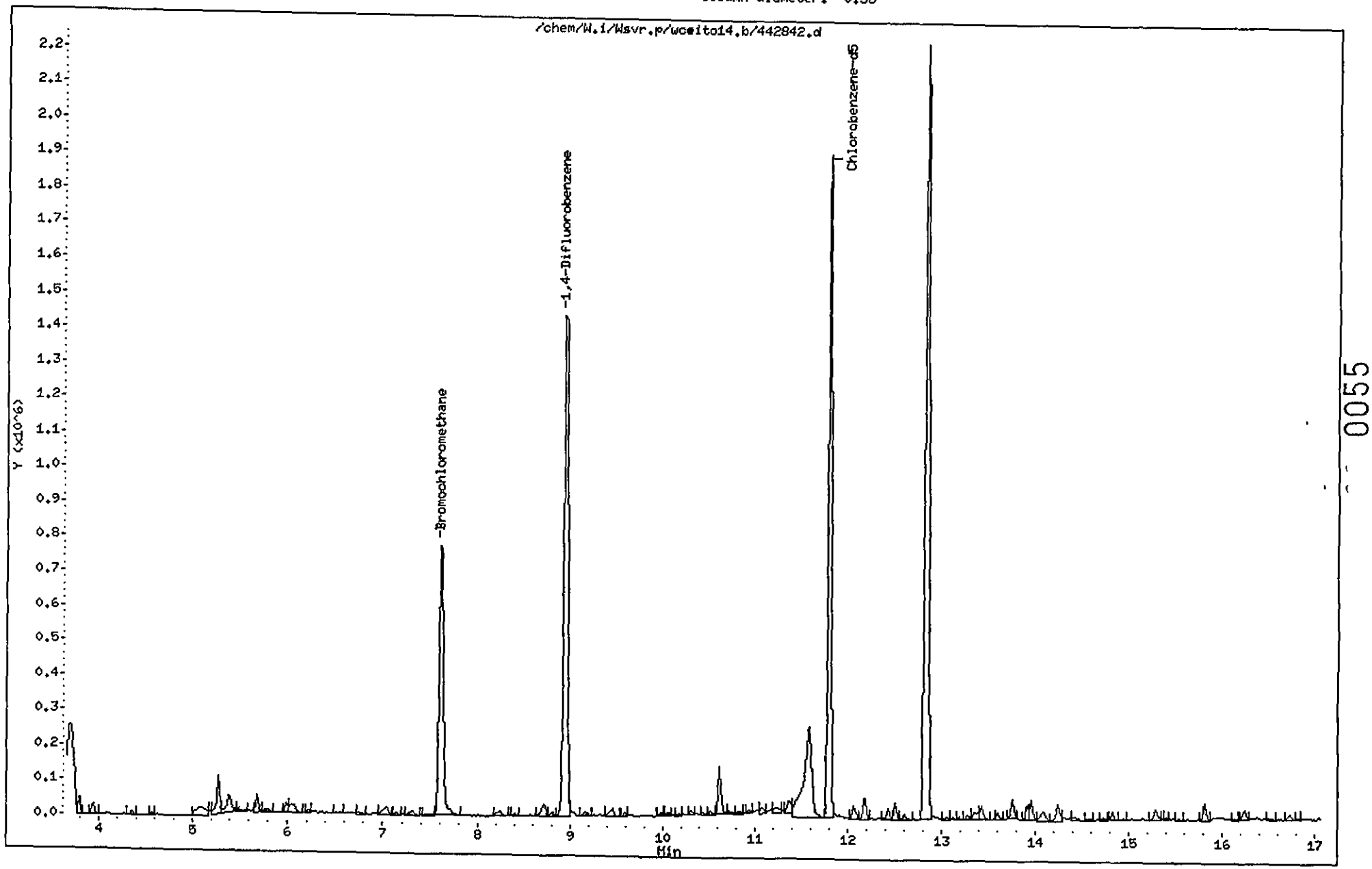
Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) PPBV	Q
74-87-3	Chloromethane	0.72	
75-01-4	Vinyl Chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-09-2	Methylene Chloride	1.1	
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
56-23-5	Carbon Tetrachloride	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-88-3	Toluene	1.1	
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
1330-20-7	Xylene (total)	0.50	U
100-42-5	Styrene	0.50	U
1330-20-7	Xylene (m,p)	0.50	U
95-47-6	Xylene (o)	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.51	
95-50-1	1,2-Dichlorobenzene	0.50	U

Data File: /chem/W.i/Wsvr.p/wceito14.b/442842.d
Date : 24-JAN-2001 09:59
Client ID: CAIA01170108
Sample Info: 442842;029ACAIA01170108;81391;012409
Purge Volume: 200.0
Column phase: DB-1

Instrument: W.i

Operator: GMM
Column diameter: 0.35



STL Burlington

AIR TOXICS QUANTITATION REPORT

Data file : /chem/W.i/Wsvr.p/wceito14.b/442842.d
Lab Smp Id: 442842 Client Smp ID: CAIA01170108
Inj Date : 24-JAN-2001 09:59
Operator : GMM Inst ID: W.i
Smp Info : 442842;029ACAIA01170108;81391;012409
Misc Info : 100%
Comment :
Method : /chem/W.i/Wsvr.p/wceito14.b/ato14.m
Meth Date : 29-Jan-2001 09:45 mim Quant Type: ISTD
Cal Date : 18-DEC-2000 13:44 Cal File: ce010i2.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ACCANA2.sub
Target Version: 3.50
Processing Host: chemsvr4

Concentration Formula: Amt * DF * X* Uf/Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
X	200.00000	method volume factor
Uf	1.00000	ng unit correction factor
Vo	200.00000	Sample Volume purged (mL)

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)
2	Chloromethane	50	3.940	3.955	(0.517)	13747	0.71609	0.72
4	Vinyl Chloride	62	Compound Not Detected.					
5	Bromomethane	94	Compound Not Detected.					
6	Chloroethane	64	Compound Not Detected.					
7	Trichlorofluoromethane	101	Compound Not Detected.					
9	Methylene Chloride	49	5.982	5.982	(0.785)	35810	1.13987	1.1
11	1,1-Dichloroethane	63	Compound Not Detected.					
12	cis-1,2-Dichloroethene	61	Compound Not Detected.					
* 13	Bromochloromethane	128	7.621	7.621	(1.000)	323569	10.0000	
14	Chloroform	83	Compound Not Detected.					
15	1,2-Dichloroethane	62	Compound Not Detected.					
16	1,1,1-Trichloroethane	97	Compound Not Detected.					
17	Benzene	78	Compound Not Detected.					
18	Carbon Tetrachloride	117	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)
*	19 1,4-Difluorobenzene	114	8.957	8.956	(1.000)	1463631	10.0000	
	20 1,2-Dichloropropane	63	Compound Not Detected.					
	21 Trichloroethene	95	Compound Not Detected.					
	22 cis-1,3-Dichloropropene	75	Compound Not Detected.					
	23 trans-1,3-Dichloropropene	75	Compound Not Detected.					
	24 1,1,2-Trichloroethane	83	Compound Not Detected.					
	25 Toluene	92	10.626	10.656	(0.900)	56595	1.06509	1.1
	27 Tetrachloroethene	166	Compound Not Detected.					
*	28 Chlorobenzene-d5	117	11.810	11.840	(1.000)	1339815	10.0000	
	29 Chlorobenzene	112	Compound Not Detected.					
	30 Ethylbenzene	91	Compound Not Detected.					
	31 Xylene (m,p)	106	Compound Not Detected.					
	32 Styrene	104	Compound Not Detected.					
M	33 Xylene (total)	106	Compound Not Detected.					
	34 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					
	35 Xylene (o)	106	Compound Not Detected.					
	38 1,3-Dichlorobenzene	146	Compound Not Detected.					
	39 1,4-Dichlorobenzene	146	13.965	13.995	(1.182)	29553	0.50646	0.51
	40 1,2-Dichlorobenzene	146	Compound Not Detected.					

Data File: /chem/W.i/Wsvr.p/wceito14.b/442842.d

Date : 24-JAN-2001 09:59

Client ID: CAIA01170108

Instrument: W.i

Sample Info: 442842:029ACAIA01170108:81391:012409

Purge Volume: 200.0

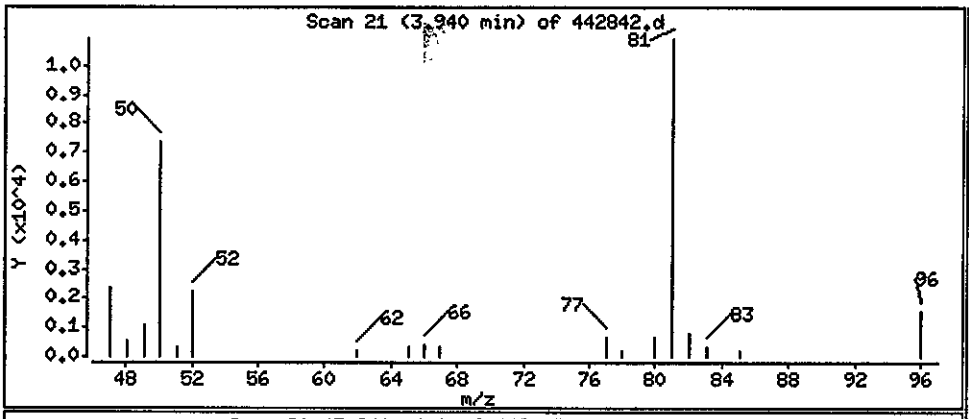
Operator: CHH

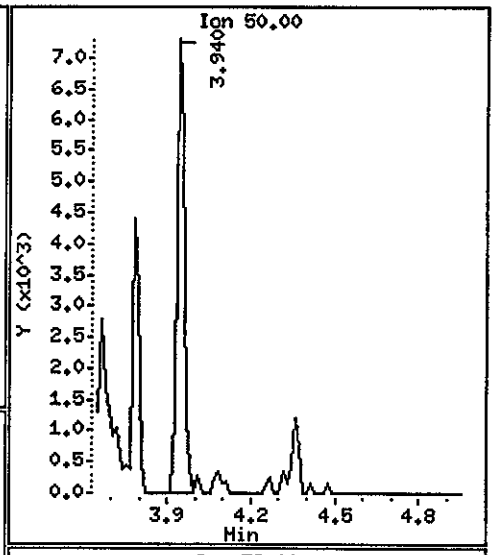
Column phase: DB-1

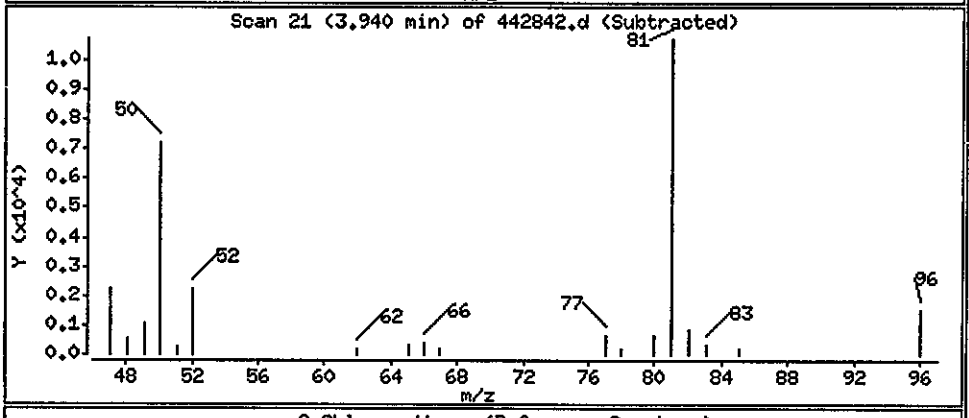
Column diameter: 0.35

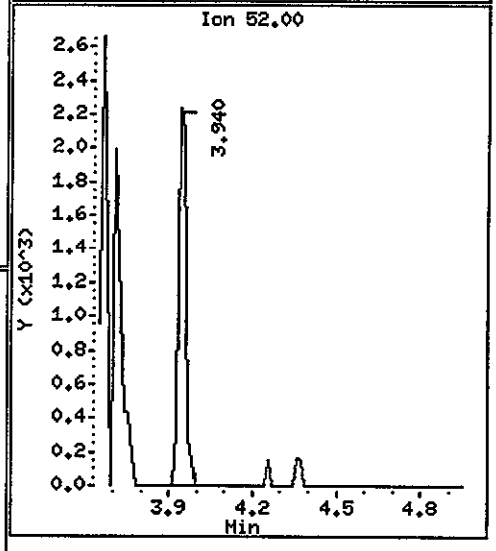
2 Chloromethane

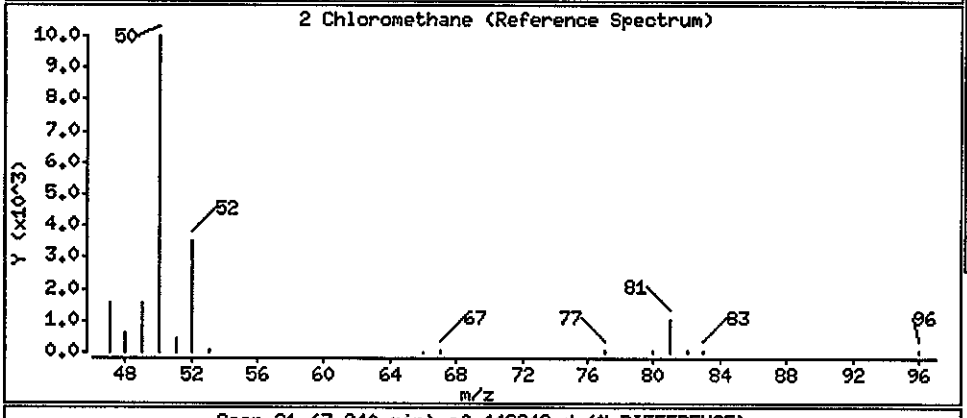
Concentration: 0.72 ppbv

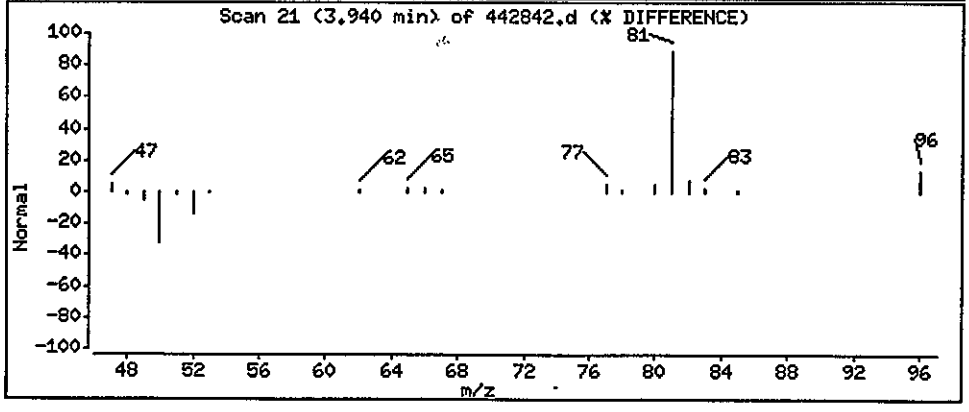




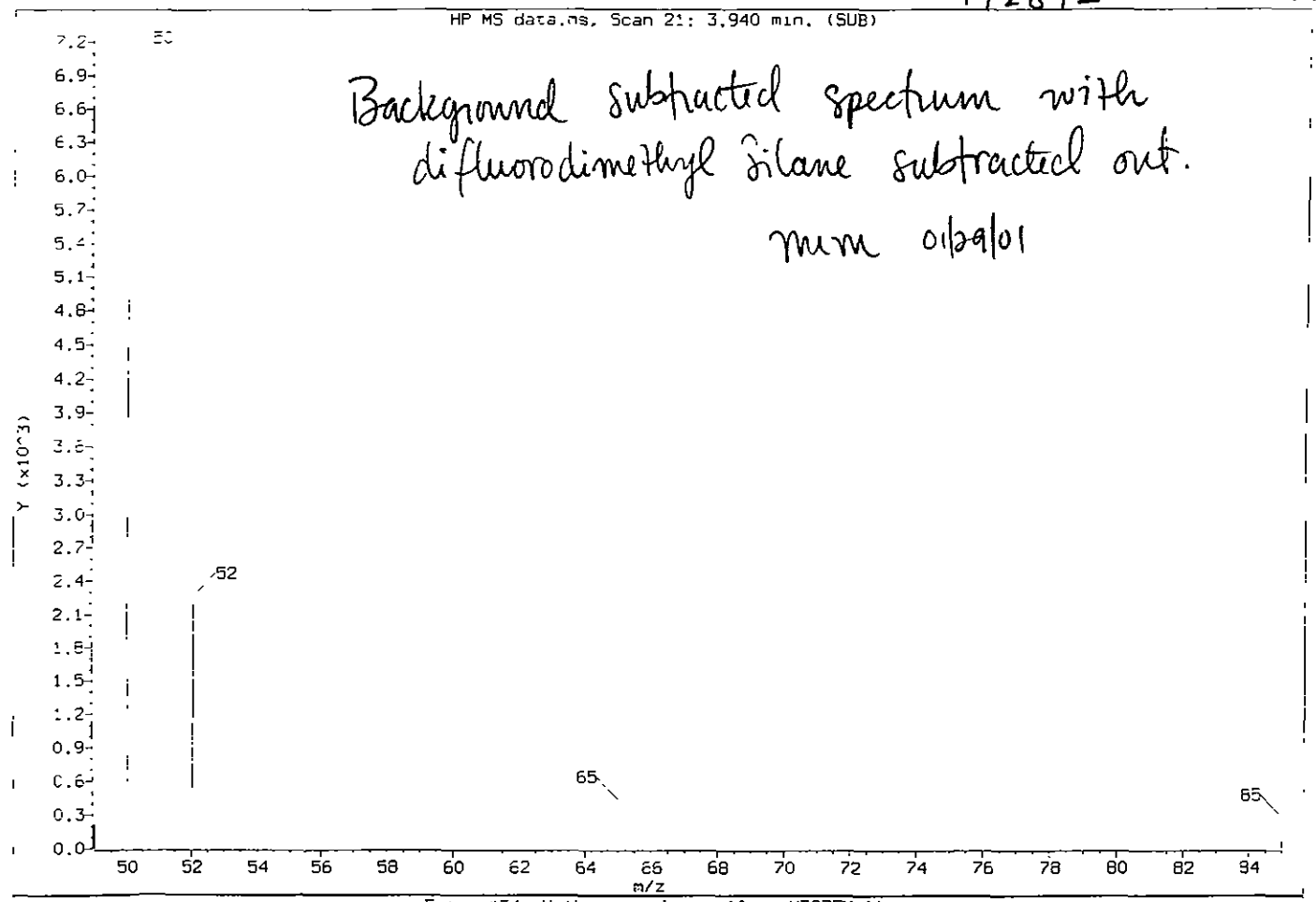


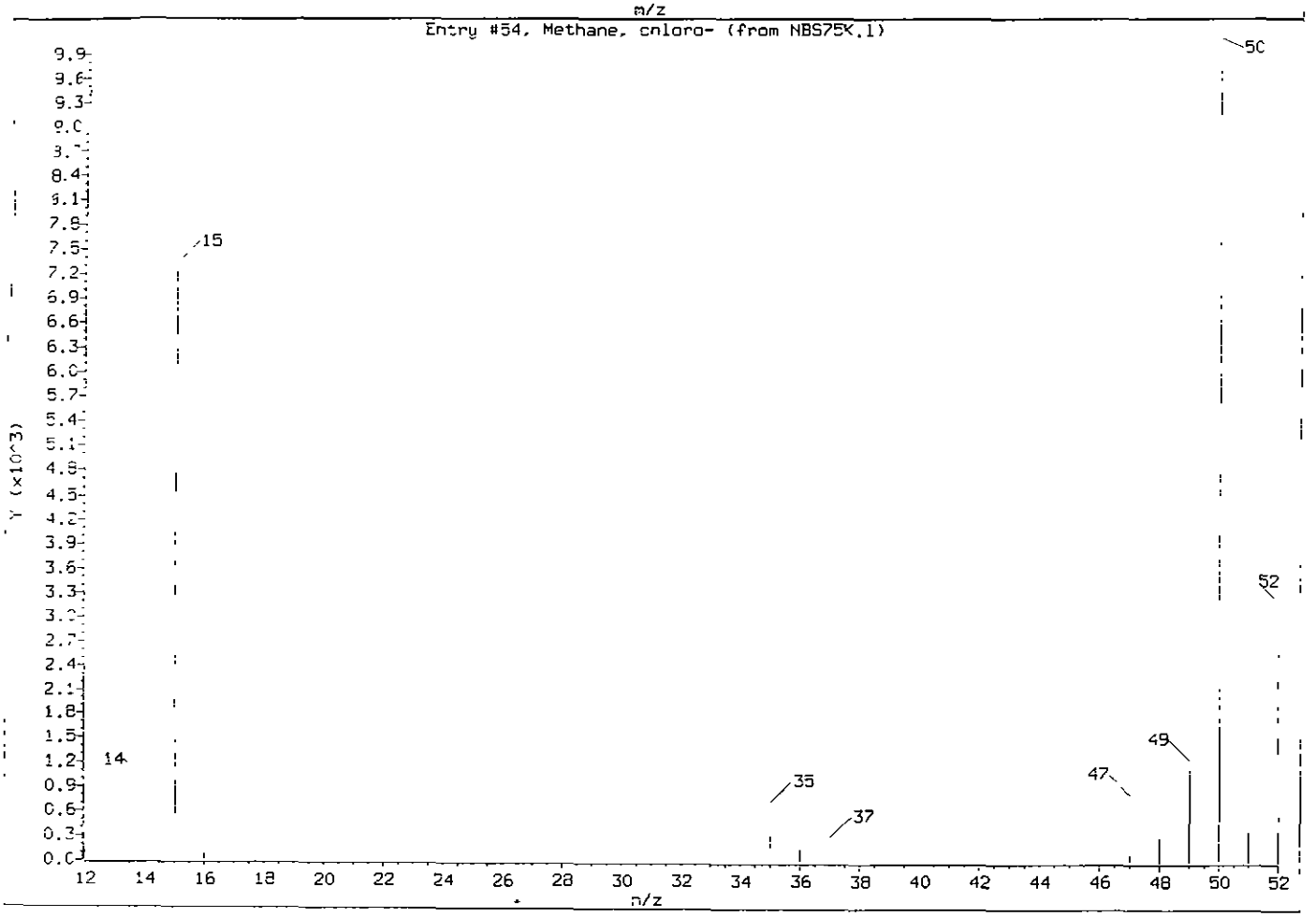






442842 CAIH01170





Data File: /chem/W.i/Wsvr.p/wceito14.b/442842.d

Date : 24-JAN-2001 09:59

Client ID: CAIA01170108

Instrument: W.i

Sample Info: 442842;029ACAIA01170108;81391;012409

Purge Volume: 200.0

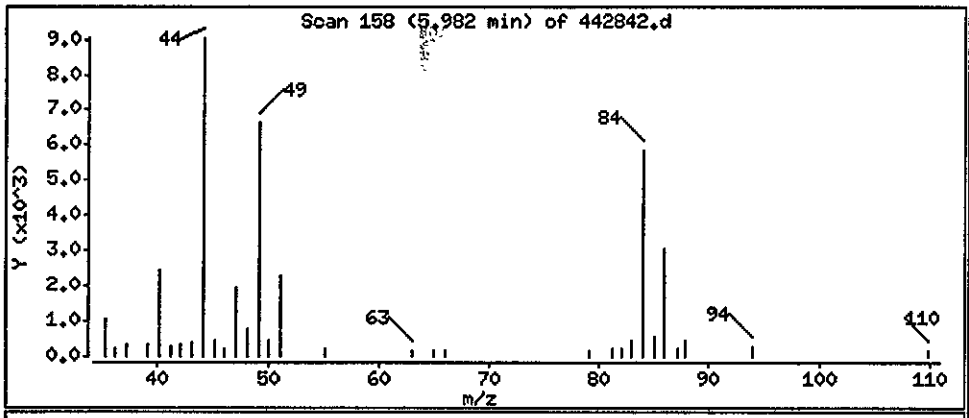
Operator: GMM

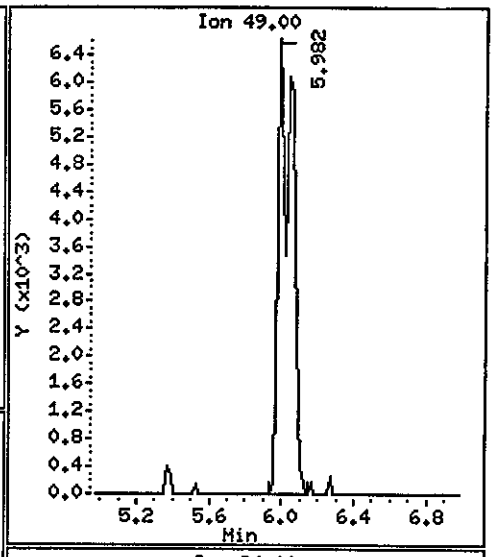
Column phase: DB-1

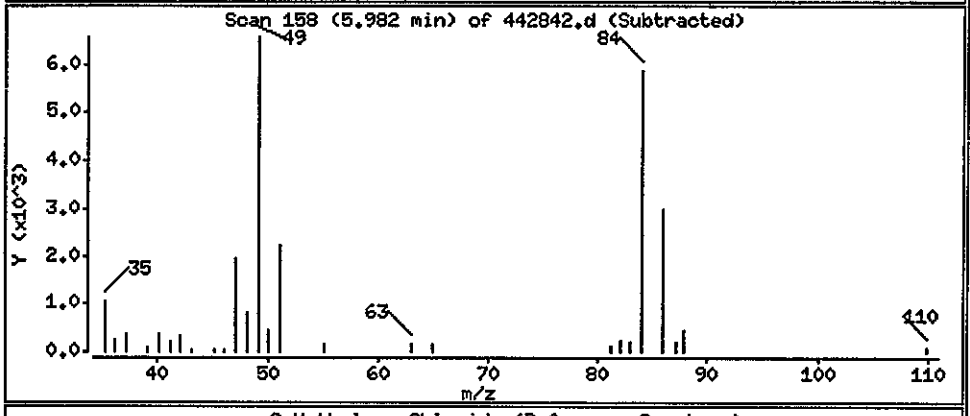
Column diameter: 0.35

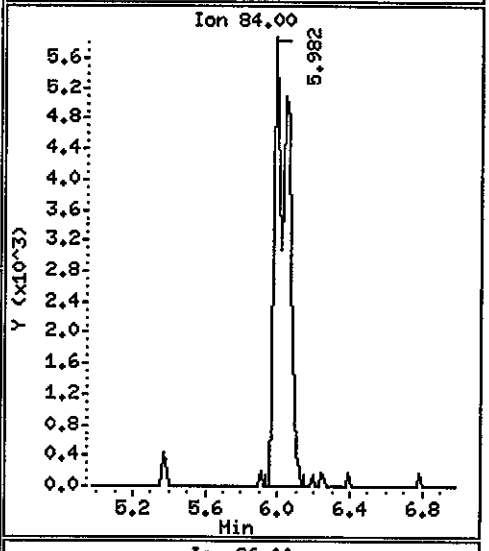
9 Methylene Chloride

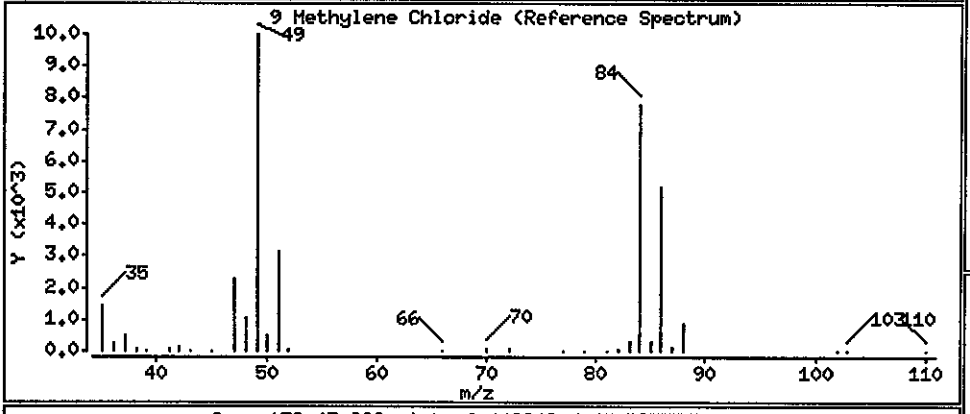
Concentration: 1.1 ppbv

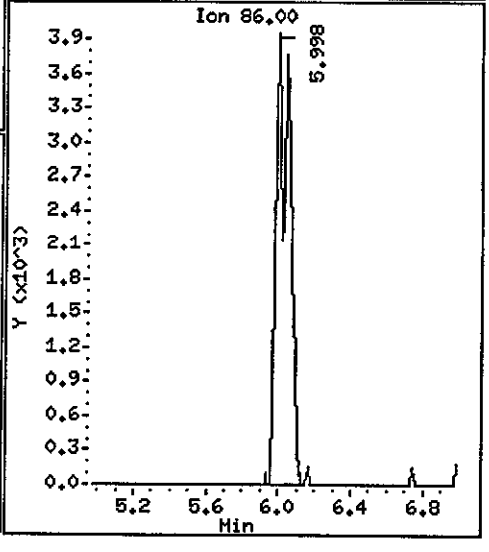


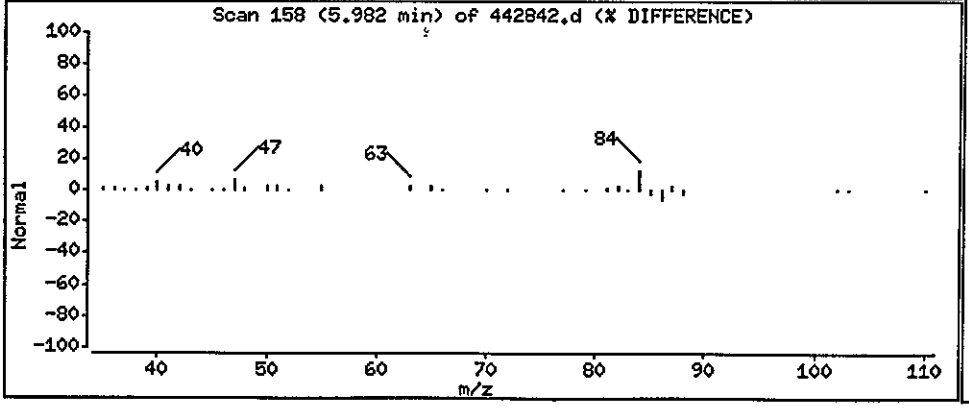












Data File: /chem/W.i/Wsvr.p/wceito14.b/442842.d

Date : 24-JAN-2001 09:59

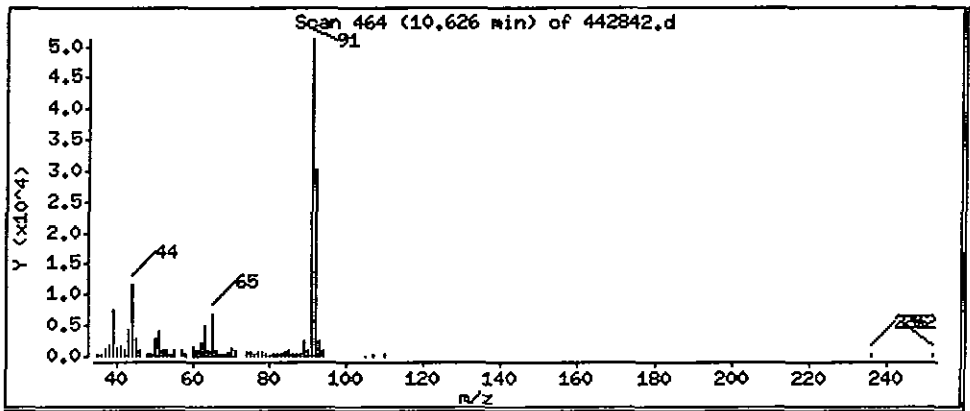
Client ID: CAIA01170108 Instrument: W.i

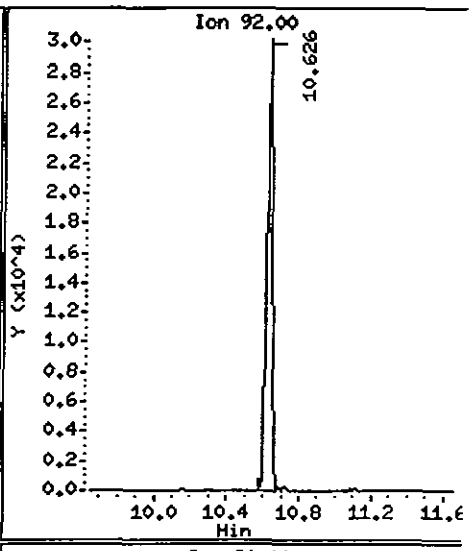
Sample Info: 442842;029ACAIA01170108;81391;012409

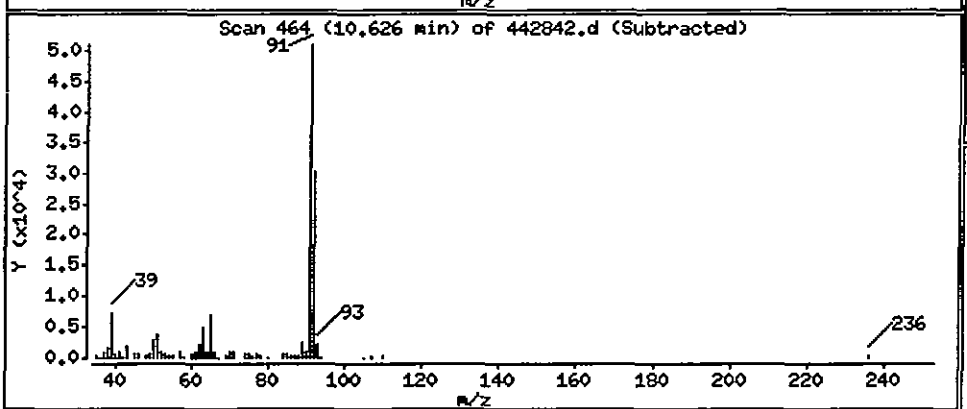
Purge Volume: 200.0 Operator: GMH

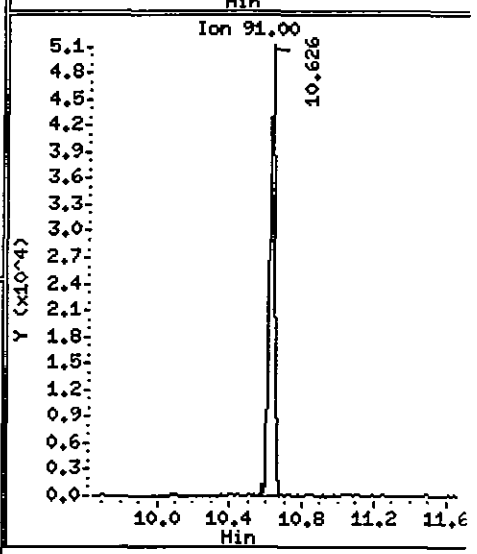
Column phase: DB-1 Column diameter: 0.35

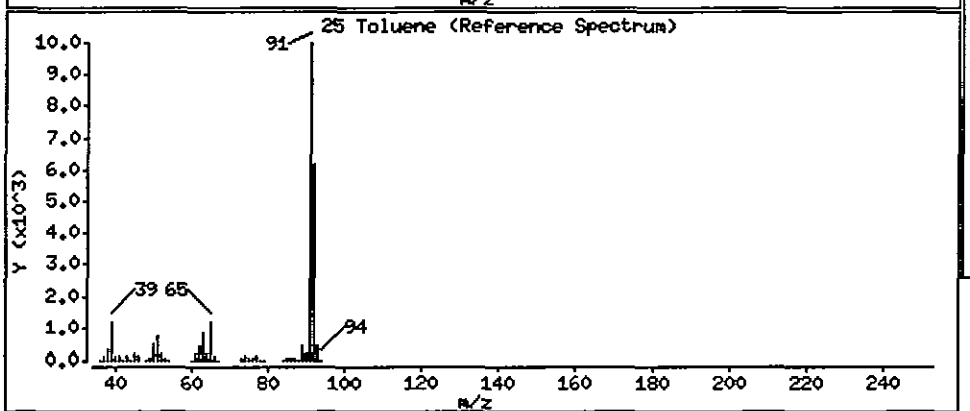
25 Toluene Concentration: 1.1 ppbv

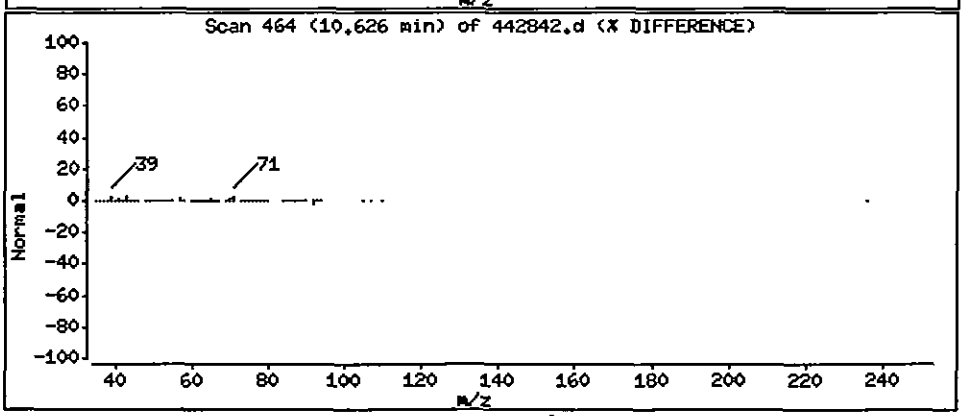












Data File: /chem/W.i/Wsvr.p/wceito14.b/442842.d

Date : 24-JAN-2001 09:59

Client ID: CAIA01170108

Instrument: W.i

Sample Info: 442842:029ACAIA01170108:81391:012409

Purge Volume: 200.0

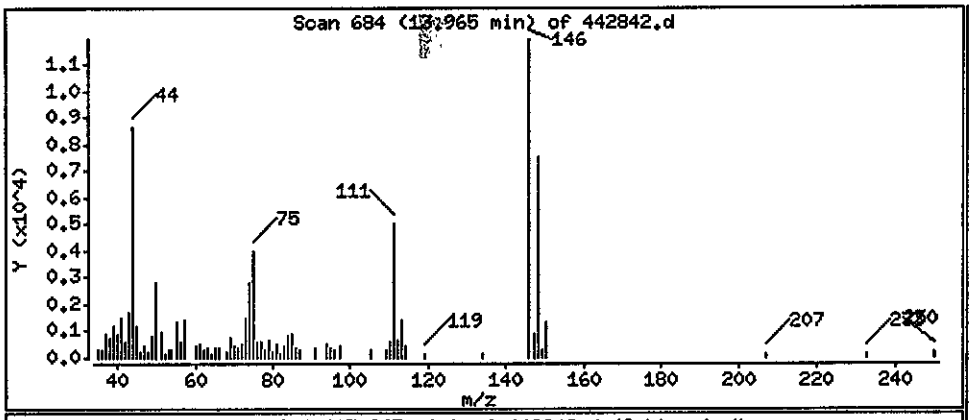
Operator: GMM

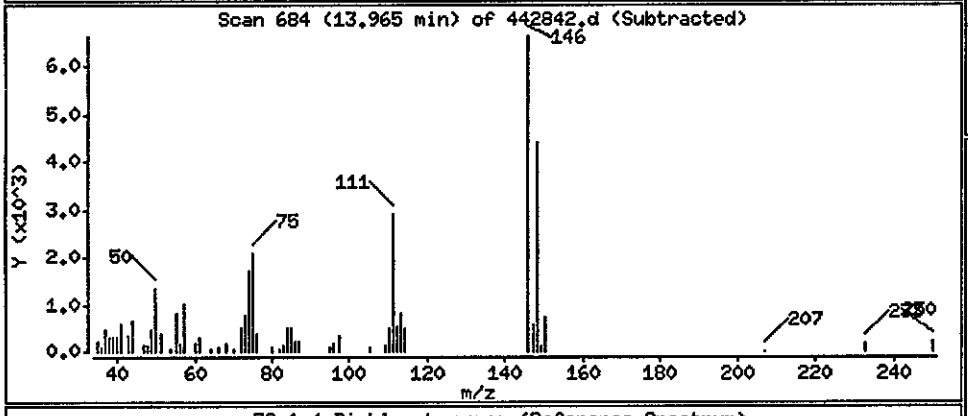
Column phase: DB-1

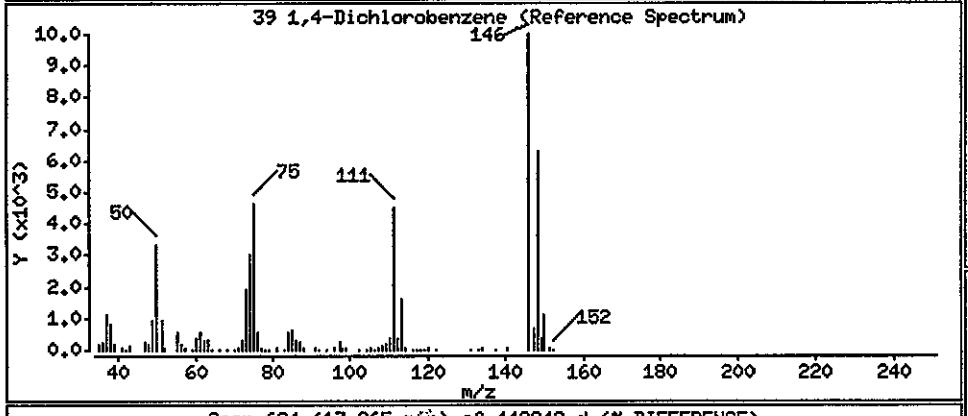
Column diameter: 0.35

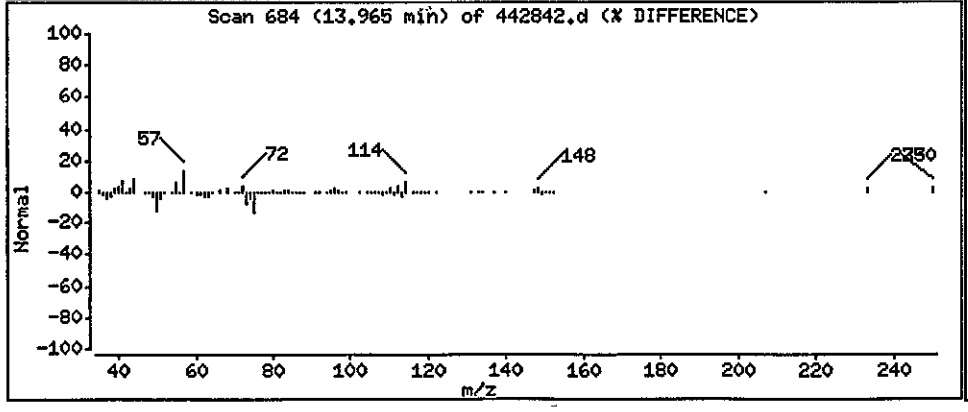
39 1,4-Dichlorobenzene

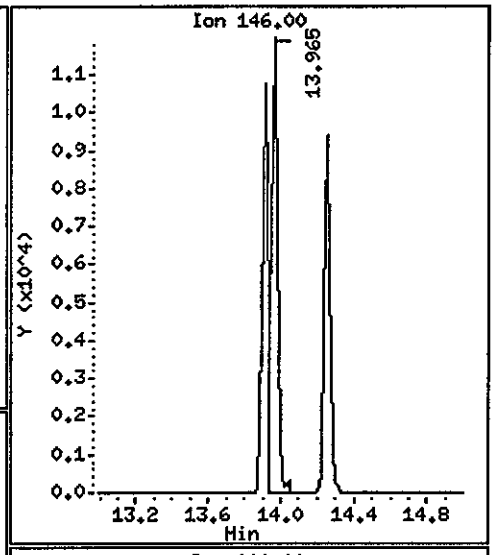
Concentration: 0.51 ppbv

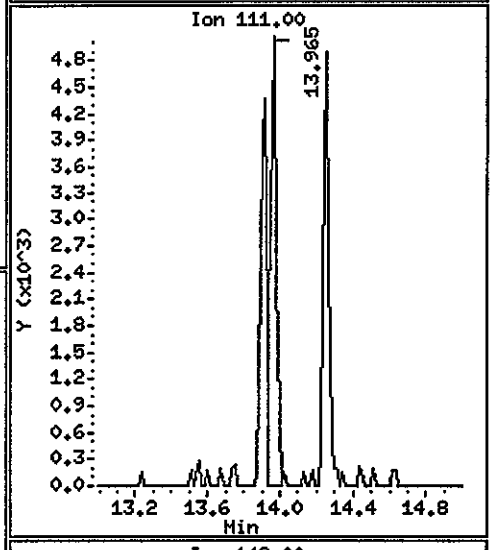


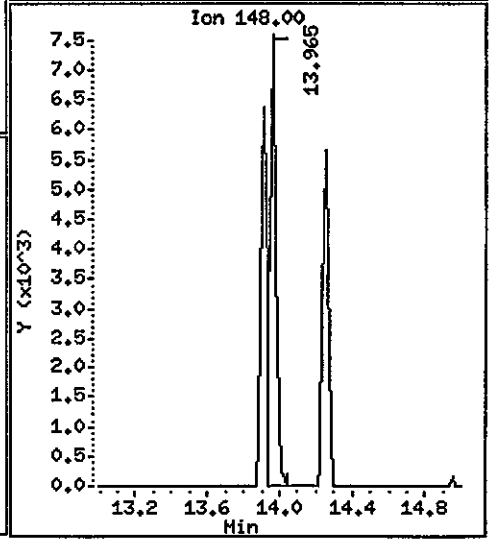












Data File: /chem/W.i/Wsvr.p/wceito14.b/442842.d

Date : 24-JAN-2001 09:59

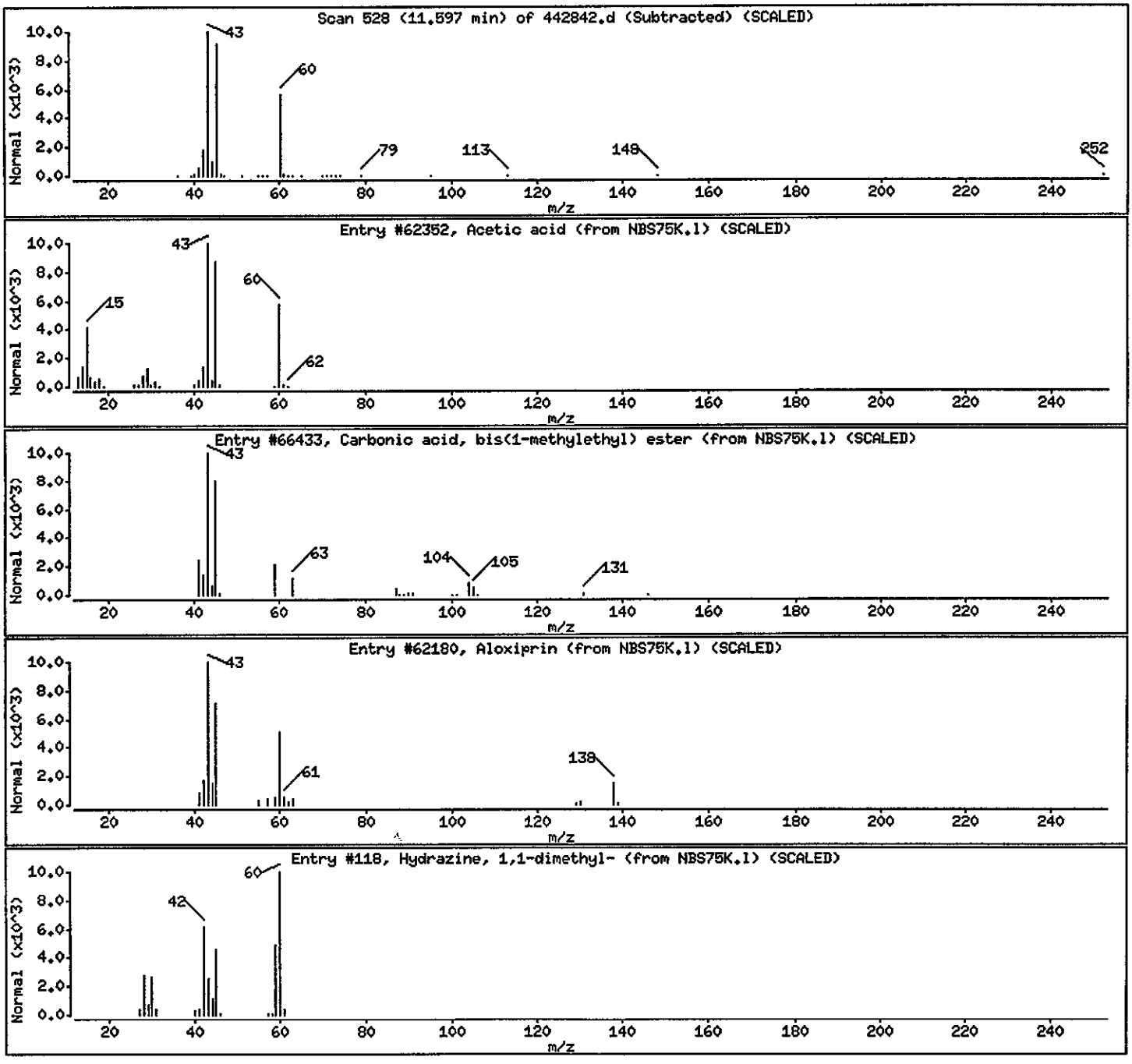
Client ID: CAIA01170108 Instrument: W.i

Sample Info: 442842;029ACAIA01170108;81391;012409

Purge Volume: 200.0 Operator: GMM

Column phase: DB-1 Column diameter: 0.35

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Acetic acid	64-19-7	NBS75K.l	62352	90	C2H4O2	60
Carbonic acid, bis(1-methylethyl) ester	6482-34-4	NBS75K.l	66433	9	C7H14O3	146
Aloxiprin	9014-67-9	NBS75K.l	62180	9	C45H35A13O22	1008
Hydrazine, 1,1-dimethyl-	57-14-7	NBS75K.l	118	5	C2H8N2	60



SEVERN TRENT SERVICES

Severn Trent Laboratories, Inc.

METHOD TO-14A
VOLATILE ORGANIC ANALYSIS

STANDARDS

6A

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 81391

Instrument ID: W Calibration Date(s): 12/18/00 12/18/00

Heated Purge: (Y/N) N Calibration Time(s): 1004 1344

GC Column: DB-1 ID: 0.35 (mm)

LAB FILE ID: RRF0.5=CE0005I2 RRF5 =CE005
RRF10 =CE010I2 RRF20 =CE020 RRF40 =CE040

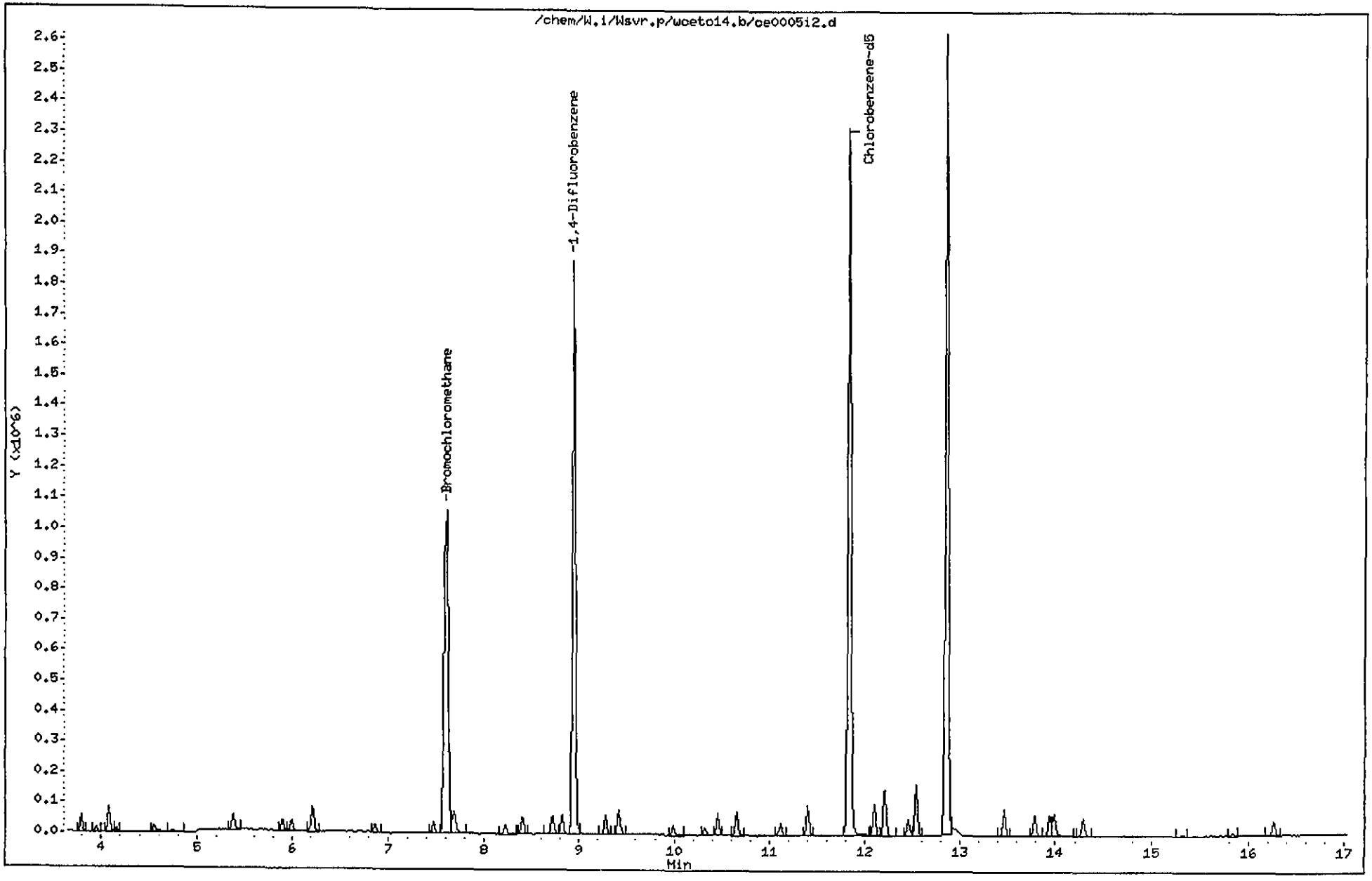
COMPOUND		RRF0.5	RRF5	RRF10	RRF20	RRF40	$\overline{RRF}$	% RSD
Chloromethane	*	0.676	0.647	0.614	0.523	0.506	0.593	12.7*
Vinyl Chloride		0.684	0.692	0.670	0.585	0.560	0.638	9.6
Bromomethane		0.930	0.929	0.813	0.716	0.726	0.823	12.7
Chloroethane		0.428	0.438	0.397	0.338	0.364	0.393	10.7
Trichlorofluoromethane		2.520	2.478	2.222	2.042	1.935	2.239	11.5
Methylene Chloride		1.446	0.967	0.906	0.773	0.762	0.971	28.8
1,1-Dichloroethane	*	1.704	1.696	1.495	1.291	1.260	1.489	14.3*
cis-1,2-Dichloroethene		1.192	1.248	1.102	1.064	0.950	1.111	10.4
Chloroform		2.265	2.167	1.952	1.815	1.642	1.968	12.9
1,1,1-Trichloroethane		2.100	2.091	1.801	1.750	1.609	1.870	11.6
Carbon Tetrachloride		0.491	0.445	0.427	0.381	0.360	0.421	12.3
Benzene		0.698	0.610	0.551	0.514	0.480	0.571	15.1
1,2-Dichloroethane		1.482	1.427	1.286	1.240	1.175	1.322	9.7
Trichloroethene		0.331	0.301	0.273	0.249	0.232	0.277	14.3
1,2-Dichloropropane		0.255	0.231	0.210	0.194	0.181	0.214	13.8
cis-1,3-Dichloropropene		0.246	0.253	0.258	0.256	0.263	0.255	2.5
Toluene		0.421	0.442	0.404	0.361	0.354	0.396	9.6
trans-1,3-Dichloropropene		0.172	0.182	0.166	0.189	0.194	0.181	6.3
1,1,2-Trichloroethane		0.264	0.248	0.227	0.206	0.192	0.227	12.9
Tetrachloroethene		0.358	0.342	0.309	0.279	0.272	0.312	12.1
Chlorobenzene	*	0.660	0.562	0.521	0.462	0.445	0.530	16.3*
Ethylbenzene		1.003	1.015	0.938	0.819	0.788	0.913	11.4
Xylene (total)		1.097	1.031	0.992	0.889	0.902	0.982	8.9
Styrene		0.363	0.243	0.334	0.360	0.343	0.329	15.0
Xylene (m,p)		0.368	0.347	0.334	0.298	0.302	0.330	9.0
Xylene (o)		0.362	0.337	0.324	0.293	0.297	0.323	8.9
1,1,2,2-Tetrachloroethane		0.661	0.542	0.513	0.459	0.451	0.525	16.1
1,3-Dichlorobenzene		0.478	0.424	0.398	0.398	0.434	0.426	7.8
1,4-Dichlorobenzene		0.558	0.374	0.408	0.405	0.433	0.436	16.4
1,2-Dichlorobenzene		0.394	0.306	0.319	0.330	0.366	0.343	10.6

* Compounds with required minimum RRF and maximim %RSD values.
All other compounds must meet a minimim RRF of 0.010.

Data File: /chem/W.i/Wsvr.p/woeto14.b/ce0005i2.d
Date : 18-DEC-2000 12:23
Client ID: ASTD0005
Sample Info: ASTD0005;ASTD0005
Purge Volume: 200.0
Column phase: DB-1

Instrument: W.i

Operator: GHM
Column diameter: 0.35



STL Burlington

AIR TOXICS QUANTITATION REPORT

Data file : /chem/W.i/Wsvr.p/wceto14.b/ce0005i2.d
Lab Smp Id: ASTD0005 Client Smp ID: ASTD0005
Inj Date : 18-DEC-2000 12:23
Operator : GMM Inst ID: W.i
Smp Info : ASTD0005;ASTD0005
Misc Info :
Comment :
Method : /chem/W.i/Wsvr.p/wceto14.b/ato14.m
Meth Date : 26-Dec-2000 14:39 mim Quant Type: ISTD
Cal Date : 18-DEC-2000 12:23 Cal File: ce0005i2.d
Als bottle: 1 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50
Processing Host: chemsvr4

Concentration Formula: Amt * DF * X* Uf/Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
X	200.00000	method volume factor
Uf	1.00000	ng unit correction factor
Vo	200.00000	Sample Volume purged (mL)

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	AMOUNTS ON-COL (ppbv)
1	Dichlorodifluoromethane	85	3.796	3.797	(0.499)	53040	0.50000	0.60
2	Chloromethane	50	3.955	3.955	(0.520)	12675	0.50000	0.57
3	Dichlorotetrafluoroethane	85	4.084	4.085	(0.537)	55549	0.50000	0.62
4	Vinyl Chloride	62	4.171	4.171	(0.548)	12834	0.50000	0.54
5	Bromomethane	94	4.546	4.546	(0.598)	17437	0.50000	0.56
6	Chloroethane	64	4.748	4.719	(0.624)	8035	0.50000	0.55
7	Trichlorofluoromethane	101	5.391	5.375	(0.709)	47243	0.50000	0.56
8	1,1-Dichloroethene	96	5.907	5.891	(0.777)	17351	0.50000	0.58(M)
9	Methylene Chloride	49	5.998	5.982	(0.789)	27113	0.50000	0.73
10	Freon TF	101	6.210	6.210	(0.816)	39975	0.50000	0.59
11	1,1-Dichloroethane	63	6.878	6.892	(0.904)	31950	0.50000	0.57
12	cis-1,2-Dichloroethene	61	7.470	7.484	(0.982)	22343	0.50000	0.54
* 13	Bromochloromethane	128	7.607	7.621	(1.000)	374987	10.0000	
14	Chloroform	83	7.682	7.697	(1.010)	42461	0.50000	0.57

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	AMOUNTS ON-COL (ppbv)
15	1,2-Dichloroethane	62	8.229	8.243	(1.082)	27782	0.50000	0.56
16	1,1,1-Trichloroethane	97	8.396	8.425	(1.104)	39376	0.50000	0.56
17	Benzene	78	8.730	8.744	(0.976)	59605	0.50000	0.61
18	Carbon Tetrachloride	117	8.821	8.835	(0.986)	41908	0.50000	0.58
* 19	1,4-Difluorobenzene	114	8.942	8.956	(1.000)	1707532	10.0000	
20	1,2-Dichloropropane	63	9.276	9.290	(1.037)	21753	0.50000	0.59
21	Trichloroethene	95	9.428	9.442	(1.054)	28232	0.50000	0.59
24	1,1,2-Trichloroethane	83	10.460	10.474	(1.170)	22526	0.50000	0.58
25	Toluene	92	10.657	10.656	(0.900)	36694	0.50000	0.53
26	1,2-Dibromoethane	107	11.112	11.126	(0.938)	30344	0.50000	0.53
27	Tetrachloroethene	166	11.416	11.415	(0.964)	31211	0.50000	0.57
* 28	Chlorobenzene-d5	117	11.841	11.840	(1.000)	1741227	10.0000	
29	Chlorobenzene	112	11.871	11.870	(1.003)	57496	0.50000	0.62(Q)
30	Ethylbenzene	91	12.099	12.098	(1.022)	87352	0.50000	0.55
31	Xylene (m,p)	106	12.220	12.219	(1.032)	64016	1.00000	1.1
32	Styrene	104	12.463	12.462	(1.053)	31615	0.50000	0.55
M 33	Xylene (total)	106				95537	0.50000	1.7
34	1,1,2,2-Tetrachloroethane	83	12.523	12.523	(1.058)	57530	0.50000	0.62
35	Xylene (o)	106	12.539	12.538	(1.059)	31521	0.50000	0.56
36	1,3,5-Trimethylbenzene	105	13.464	13.463	(1.137)	59560	0.50000	0.52
37	1,2,4-Trimethylbenzene	105	13.798	13.782	(1.165)	55772	0.50000	0.53
38	1,3-Dichlorobenzene	146	13.950	13.934	(1.178)	41631	0.50000	0.55
39	1,4-Dichlorobenzene	146	13.996	13.995	(1.182)	48546	0.50000	0.63
40	1,2-Dichlorobenzene	146	14.284	14.283	(1.206)	34349	0.50000	0.56
42	Hexachlorobutadiene	225	16.257	16.271	(1.373)	10308	0.50000	0.69

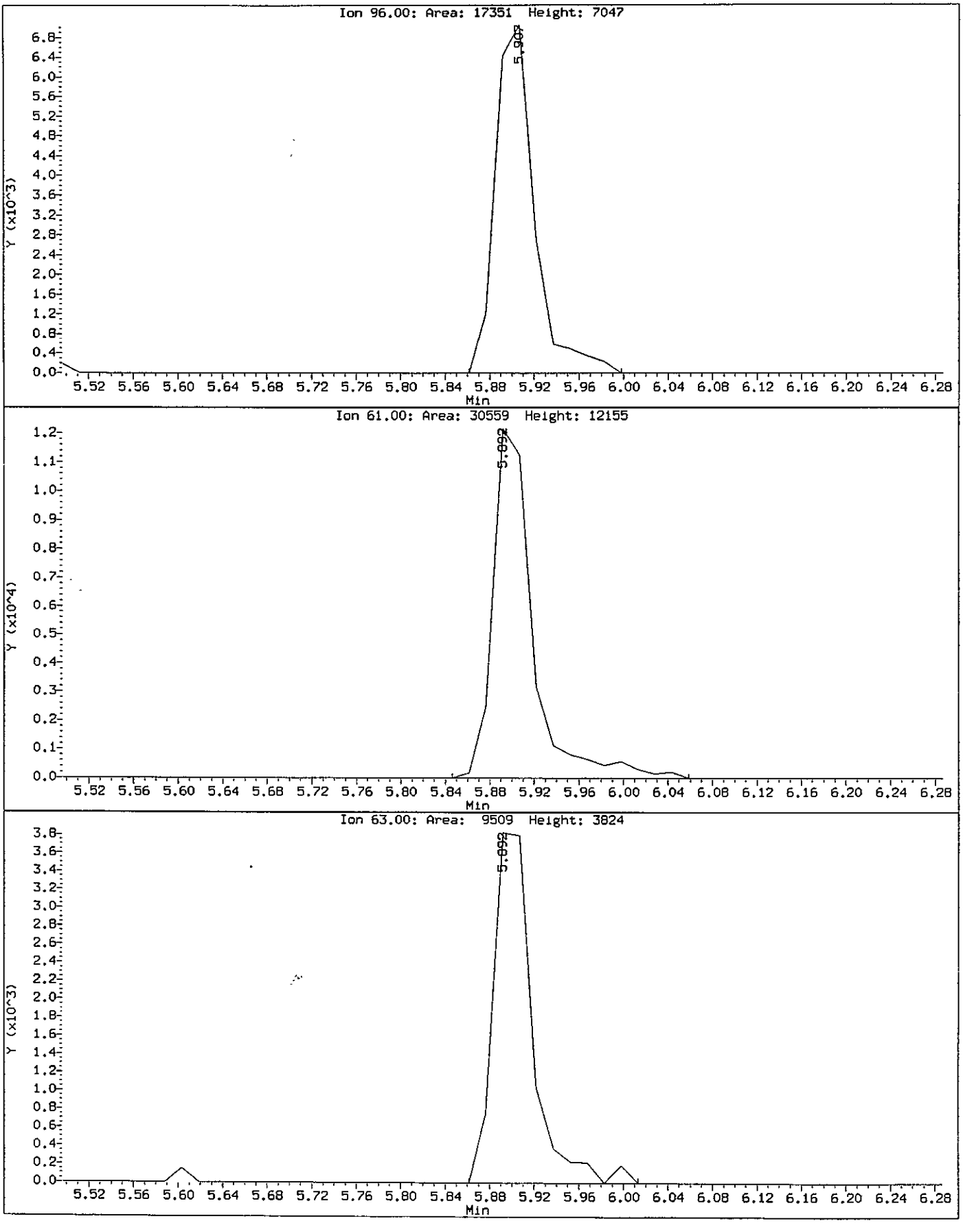
QC Flag Legend

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

12/26/00

Data File: /chem/W.i/Wsvr.p/wceto14.b/ce000512.d
Injection Date: 18-DEC-2000 12:23
Instrument: W.i
Client Sample ID: ASTD0005

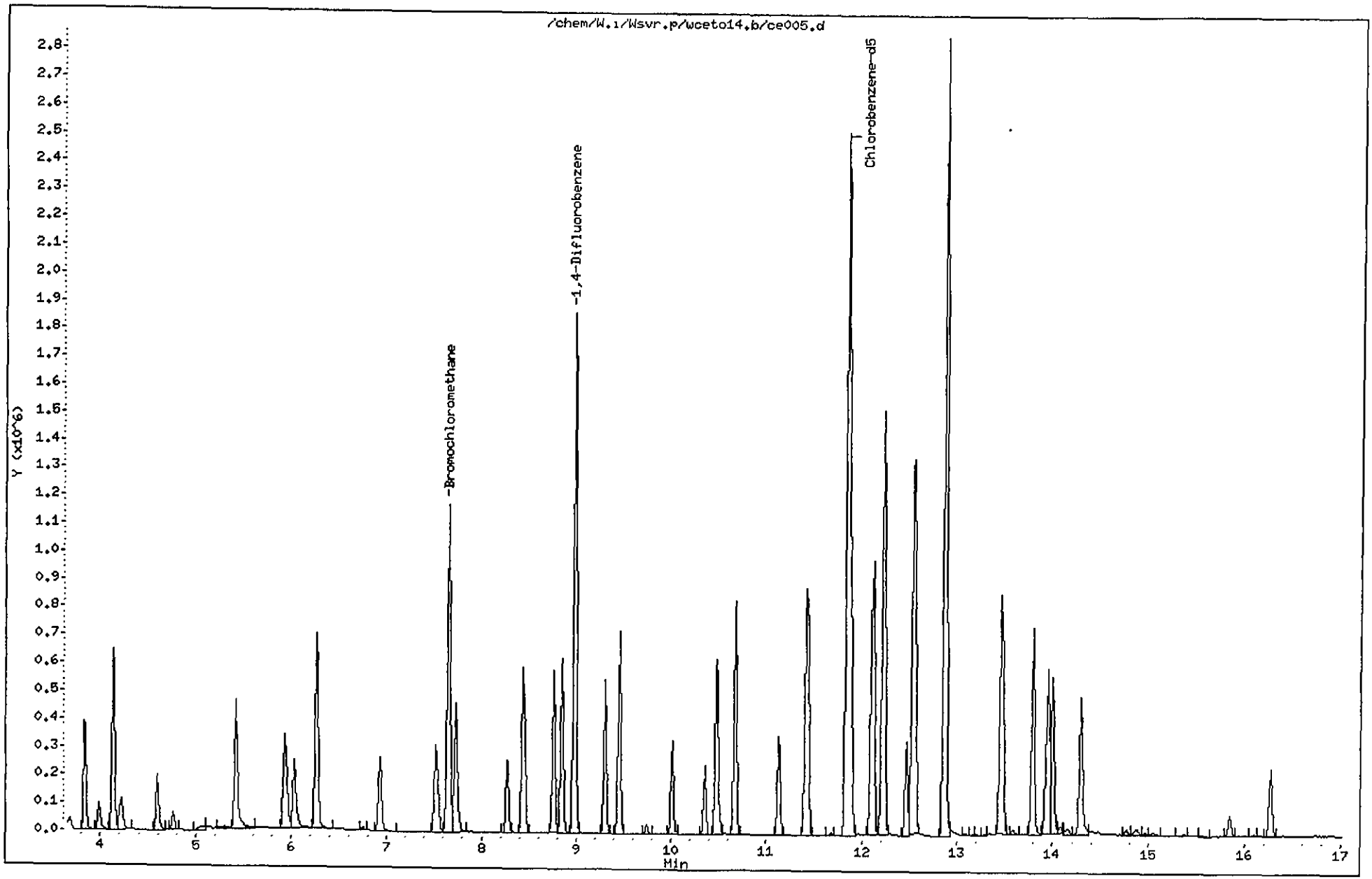
Compound: 1,1-Dichloroethene
CAS Number: 75-35-4



Data File: /chem/W.i/Wsvr.p/wceto14.b/ce005.d
Date : 18-DEC-2000 11:14
Client ID: ASTD005
Sample Info: ASTD005;ASTD005
Purge Volume: 200.0
Column phase: DB-1

Instrument: W.i

Operator: GMM
Column diameter: 0.35



STL Burlington

AIR TOXICS QUANTITATION REPORT

Data file : /chem/W.i/Wsvr.p/wceto14.b/ce005.d
Lab Smp Id: ASTD005 Client Smp ID: ASTD005
Inj Date : 18-DEC-2000 11:14
Operator : GMM Inst ID: W.i
Smp Info : ASTD005;ASTD005
Misc Info :
Comment :
Method : /chem/W.i/Wsvr.p/wceto14.b/ato14.m
Meth Date : 26-Dec-2000 14:39 mim Quant Type: ISTD
Cal Date : 18-DEC-2000 11:14 Cal File: ce005.d
Als bottle: 2 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50
Processing Host: chemsvr4

Concentration Formula: Amt * DF * X* Uf/Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
X	200.00000	method volume factor
Uf	1.00000	ng unit correction factor
Vo	200.00000	Sample Volume purged (mL)

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	ON-COL (ppbv)
1	Dichlorodifluoromethane	85	3.826	3.797	(0.500)	455491	5.00000	5.8
2	Chloromethane	50	3.984	3.955	(0.521)	115259	5.00000	5.8
3	Dichlorotetrafluoroethane	85	4.128	4.085	(0.540)	459013	5.00000	5.9
4	Vinyl Chloride	62	4.215	4.171	(0.551)	123329	5.00000	5.6
5	Bromomethane	94	4.590	4.546	(0.600)	165580	5.00000	5.9
6	Chloroethane	64	4.763	4.719	(0.622)	77955	5.00000	5.8(M)
7	Trichlorofluoromethane	101	5.420	5.375	(0.708)	441487	5.00000	5.8
8	1,1-Dichloroethene	96	5.936	5.891	(0.776)	156763	5.00000	5.8
9	Methylene Chloride	49	6.027	5.982	(0.788)	172276	5.00000	5.8
10	Freon TF	101	6.255	6.210	(0.818)	349080	5.00000	5.7
11	1,1-Dichloroethane	63	6.922	6.892	(0.905)	302152	5.00000	6.0
12	cis-1,2-Dichloroethene	61	7.514	7.484	(0.982)	222320	5.00000	5.7
* 13	Bromochloromethane	128	7.651	7.621	(1.000)	356359	10.0000	(Q)
14	Chloroform	83	7.727	7.697	(1.010)	386124	5.00000	5.8

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	AMOUNTS ON-COL (ppbv)
	15 1,2-Dichloroethane	62	8.258	8.243	(1.079)	254219	5.00000	5.6
	16 1,1,1-Trichloroethane	97	8.440	8.425	(1.103)	372515	5.00000	5.8
	17 Benzene	78	8.759	8.744	(0.976)	512312	5.00000	5.7
	18 Carbon Tetrachloride	117	8.850	8.835	(0.986)	373259	5.00000	5.6
*	19 1,4-Difluorobenzene	114	8.971	8.956	(1.000)	1678381	10.0000	
	20 1,2-Dichloropropane	63	9.305	9.290	(1.037)	193828	5.00000	5.7
	21 Trichloroethene	95	9.457	9.442	(1.054)	252951	5.00000	5.8
	22 cis-1,3-Dichloropropene	75	10.018	10.003	(1.117)	212702	5.00000	4.9
	23 trans-1,3-Dichloropropene	75	10.352	10.337	(1.154)	152952	5.00000	4.8
	24 1,1,2-Trichloroethane	83	10.473	10.474	(1.167)	208406	5.00000	5.8
	25 Toluene	92	10.671	10.656	(0.901)	390635	5.00000	5.7
	26 1,2-Dibromoethane	107	11.126	11.126	(0.940)	309253	5.00000	5.5
	27 Tetrachloroethene	166	11.430	11.415	(0.965)	301986	5.00000	5.7
*	28 Chlorobenzene-d5	117	11.839	11.840	(1.000)	1767689	10.0000	
	29 Chlorobenzene	112	11.870	11.870	(1.003)	496693	5.00000	5.7
	30 Ethylbenzene	91	12.112	12.098	(1.023)	896786	5.00000	5.8
	31 Xylene (m,p)	106	12.219	12.219	(1.032)	613146	10.0000	11
	32 Styrene	104	12.477	12.462	(1.054)	214881	5.00000	3.8
M	33 Xylene (total)	106				911296	5.00000	16
	34 1,1,2,2-Tetrachloroethane	83	12.537	12.523	(1.059)	478780	5.00000	5.6
	35 Xylene (o)	106	12.553	12.538	(1.060)	298150	5.00000	5.4
	36 1,3,5-Trimethylbenzene	105	13.463	13.463	(1.137)	595494	5.00000	5.2
	37 1,2,4-Trimethylbenzene	105	13.797	13.782	(1.165)	520967	5.00000	5.0
	38 1,3-Dichlorobenzene	146	13.949	13.934	(1.178)	375239	5.00000	5.1
	39 1,4-Dichlorobenzene	146	13.994	13.995	(1.182)	330578	5.00000	4.6
	40 1,2-Dichlorobenzene	146	14.283	14.283	(1.206)	270268	5.00000	4.6
	41 1,2,4-Trichlorobenzene	180	15.846	15.846	(1.338)	30279	5.00000	3.2
	42 Hexachlorobutadiene	225	16.271	16.271	(1.374)	58823	5.00000	4.4

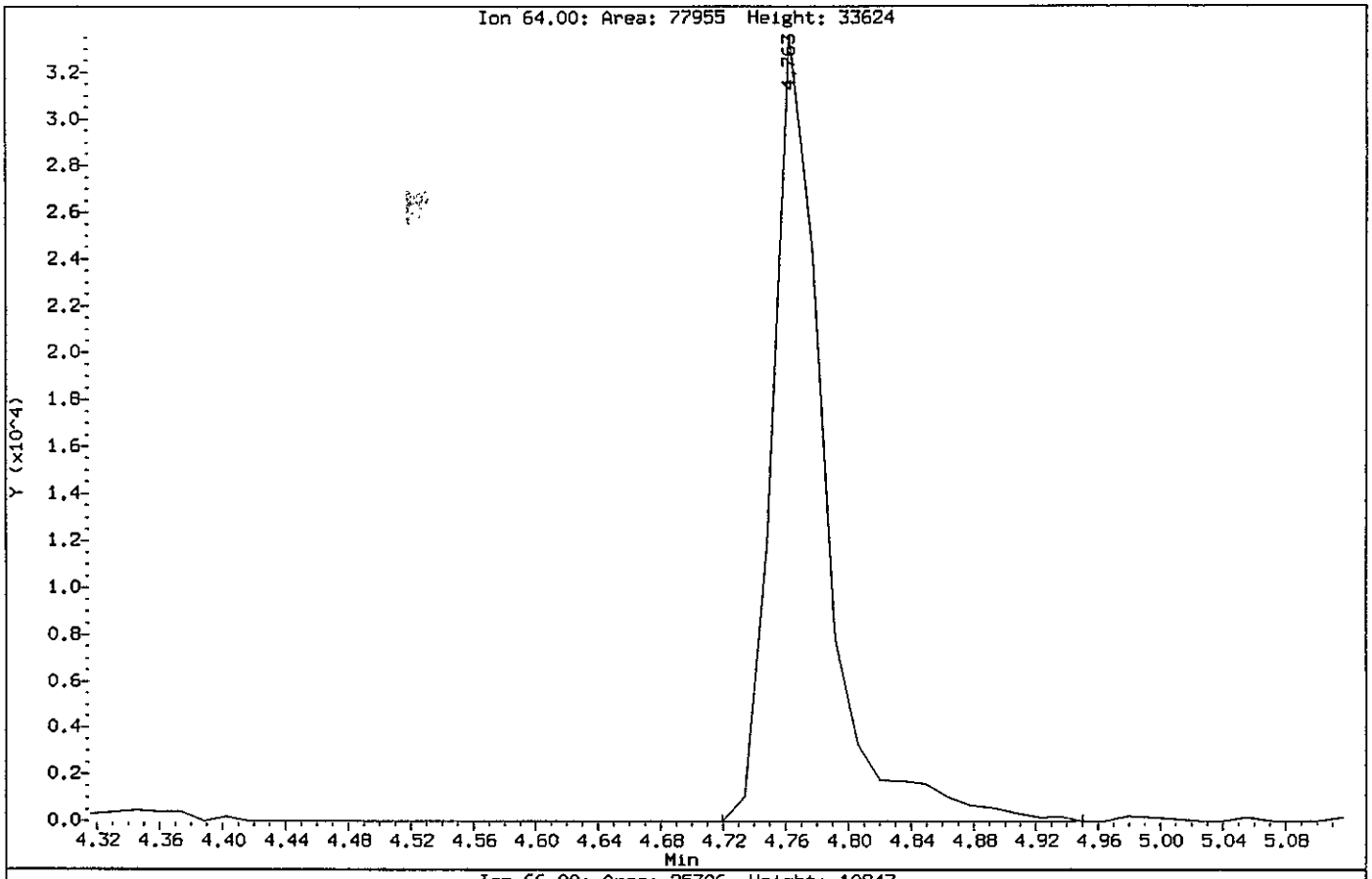
QC Flag Legend

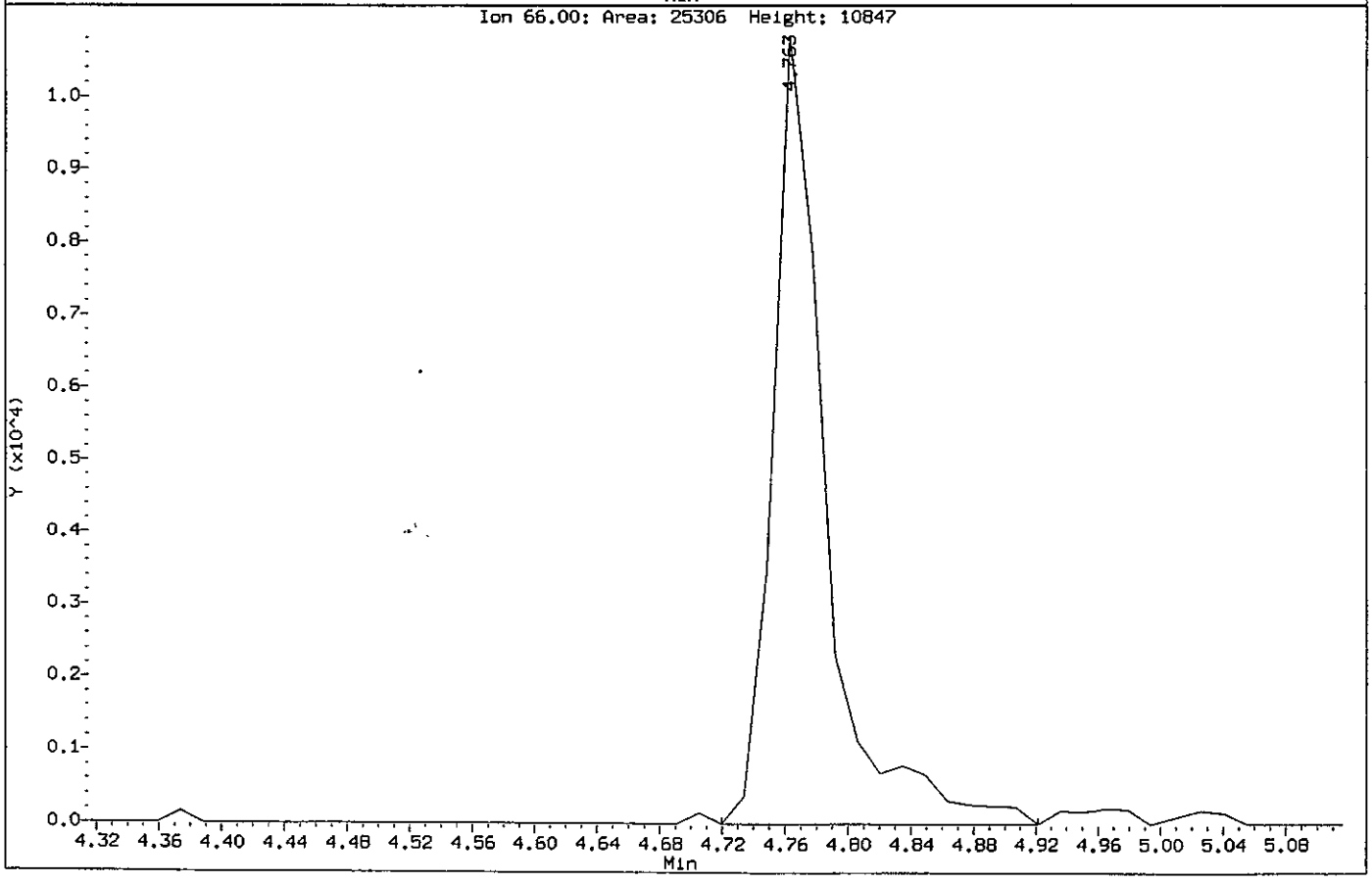
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

12/26/00

Data File: /chem/W.i/Wsvr.p/wceto14.b/ce005.d
Injection Date: 18-DEC-2000 11:14
Instrument: W.i
Client Sample ID: ASTD005

Compound: Chloroethane
CAS Number: 75-00-3

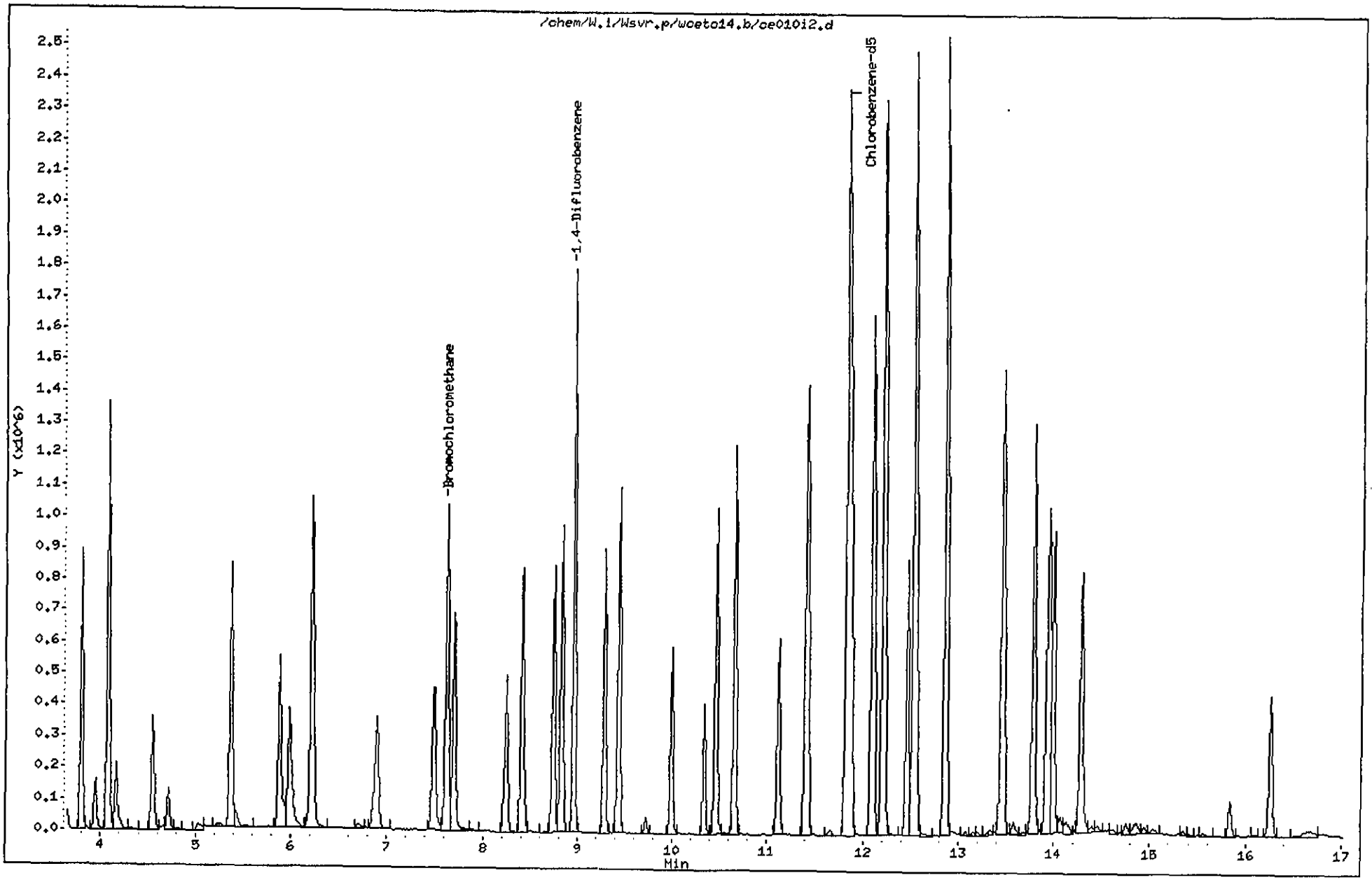




Data File: /chem/W.i/Wsvr.p/woeto14.b/ce010i2.d
Date : 18-DEC-2000 13:44
Client ID: ASTD010
Sample Info: ASTD010;ASTD010
Purge Volume: 200.0
Column phase: DB-1

Instrument: W.i

Operator: GMM
Column diameter: 0.35



0075

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AIR TOXICS QUANTITATION REPORT

Data file : /chem/W.i/Wsvr.p/wceto14.b/ce010i2.d
Lab Smp Id: ASTD010 Client Smp ID: ASTD010
Inj Date : 18-DEC-2000 13:44
Operator : GMM Inst ID: W.i
Smp Info : ASTD010;ASTD010
Misc Info :
Comment :
Method : /chem/W.i/Wsvr.p/wceto14.b/ato14.m
Meth Date : 26-Dec-2000 14:40 mim Quant Type: ISTD
Cal Date : 18-DEC-2000 13:44 Cal File: ce010i2.d
Als bottle: 1 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50
Processing Host: chemsvr4

Concentration Formula: Amt * DF * X* Uf/Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
X	200.00000	method volume factor
Uf	1.00000	ng unit correction factor
Vo	200.00000	Sample Volume purged (mL)

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	AMOUNTS ON-COL (ppbv)
	1 Dichlorodifluoromethane	85	3.797	3.797	(0.498)	783179	10.0000	9.9
	2 Chloromethane	50	3.955	3.955	(0.519)	206070	10.0000	10
	3 Dichlorotetrafluoroethane	85	4.085	4.085	(0.536)	809859	10.0000	10
	4 Vinyl Chloride	62	4.171	4.171	(0.547)	224852	10.0000	10
	5 Bromomethane	94	4.546	4.546	(0.597)	272737	10.0000	9.9
	6 Chloroethane	64	4.719	4.719	(0.619)	133364	10.0000	10(M)
	7 Trichlorofluoromethane	101	5.375	5.375	(0.705)	745546	10.0000	9.9(M)
	8 1,1-Dichloroethene	96	5.891	5.891	(0.773)	265771	10.0000	9.9
	9 Methylene Chloride	49	5.982	5.982	(0.785)	304170	10.0000	9.3
	10 Freon TF	101	6.210	6.210	(0.815)	611228	10.0000	10
	11 1,1-Dichloroethane	63	6.892	6.892	(0.904)	501522	10.0000	10
	12 cis-1,2-Dichloroethene	61	7.484	7.484	(0.982)	369594	10.0000	9.9
*	13 Bromochloromethane	128	7.621	7.621	(1.000)	335524	10.0000	
	14 Chloroform	83	7.697	7.697	(1.010)	654964	10.0000	9.9

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	ON-COL (ppbv)
	15 1,2-Dichloroethane	62	8.243	8.243	(1.082)	431485	10.0000	9.7
	16 1,1,1-Trichloroethane	97	8.425	8.425	(1.106)	604178	10.0000	9.6
	17 Benzene	78	8.744	8.744	(0.976)	795923	10.0000	9.7
	18 Carbon Tetrachloride	117	8.835	8.835	(0.986)	616952	10.0000	10
*	19 1,4-Difluorobenzene	114	8.956	8.956	(1.000)	1443226	10.0000	
	20 1,2-Dichloropropane	63	9.290	9.290	(1.037)	302529	10.0000	9.8
	21 Trichloroethene	95	9.442	9.442	(1.054)	394714	10.0000	9.9
	22 cis-1,3-Dichloropropene	75	10.003	10.003	(1.117)	371649	10.0000	10
	23 trans-1,3-Dichloropropene	75	10.337	10.337	(1.154)	240262	10.0000	9.2
	24 1,1,2-Trichloroethane	83	10.474	10.474	(1.169)	327884	10.0000	10
	25 Toluene	92	10.656	10.656	(0.900)	608775	10.0000	10
	26 1,2-Dibromoethane	107	11.126	11.126	(0.940)	506187	10.0000	10
	27 Tetrachloroethene	166	11.415	11.415	(0.964)	465030	10.0000	9.9
*	28 Chlorobenzene-d5	117	11.840	11.840	(1.000)	1506068	10.0000	
	29 Chlorobenzene	112	11.870	11.870	(1.003)	785207	10.0000	9.8
	30 Ethylbenzene	91	12.098	12.098	(1.022)	1412489	10.0000	10
	31 Xylene (m,p)	106	12.219	12.219	(1.032)	1006652	20.0000	20
	32 Styrene	104	12.462	12.462	(1.053)	503486	10.0000	10
M	33 Xylene (total)	106				1494475	10.0000	30
	34 1,1,2,2-Tetrachloroethane	83	12.523	12.523	(1.058)	772225	10.0000	9.8
	35 Xylene (o)	106	12.538	12.538	(1.059)	487823	10.0000	10
	36 1,3,5-Trimethylbenzene	105	13.463	13.463	(1.137)	1006840	10.0000	10
	37 1,2,4-Trimethylbenzene	105	13.782	13.782	(1.164)	909158	10.0000	10
	38 1,3-Dichlorobenzene	146	13.934	13.934	(1.177)	598947	10.0000	9.3
	39 1,4-Dichlorobenzene	146	13.995	13.995	(1.182)	614179	10.0000	9.4
	40 1,2-Dichlorobenzene	146	14.283	14.283	(1.206)	481180	10.0000	9.3
	41 1,2,4-Trichlorobenzene	180	15.846	15.846	(1.338)	51665	10.0000	7.3
	42 Hexachlorobutadiene	225	16.271	16.271	(1.374)	101567	10.0000	8.2

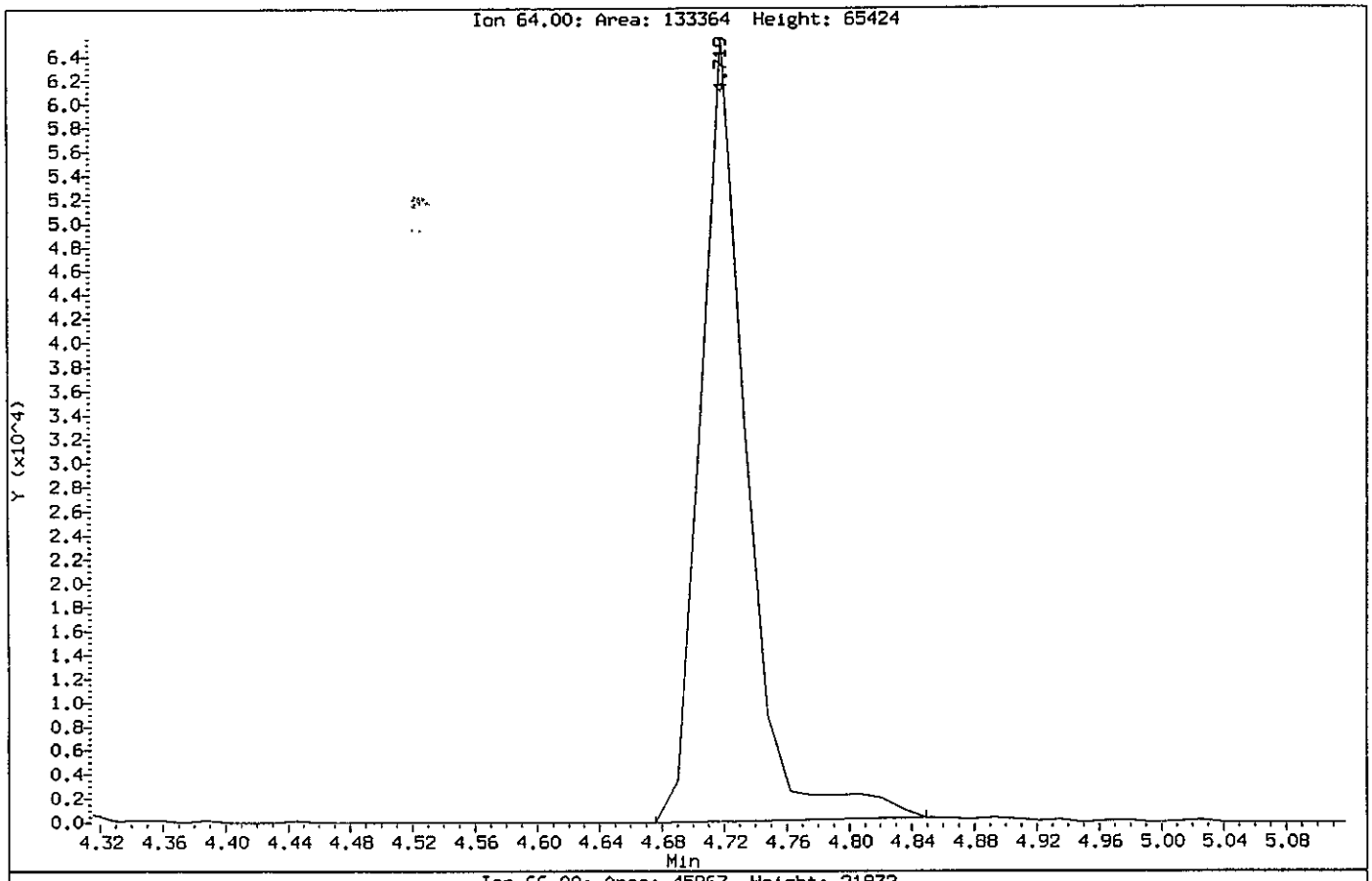
QC Flag Legend

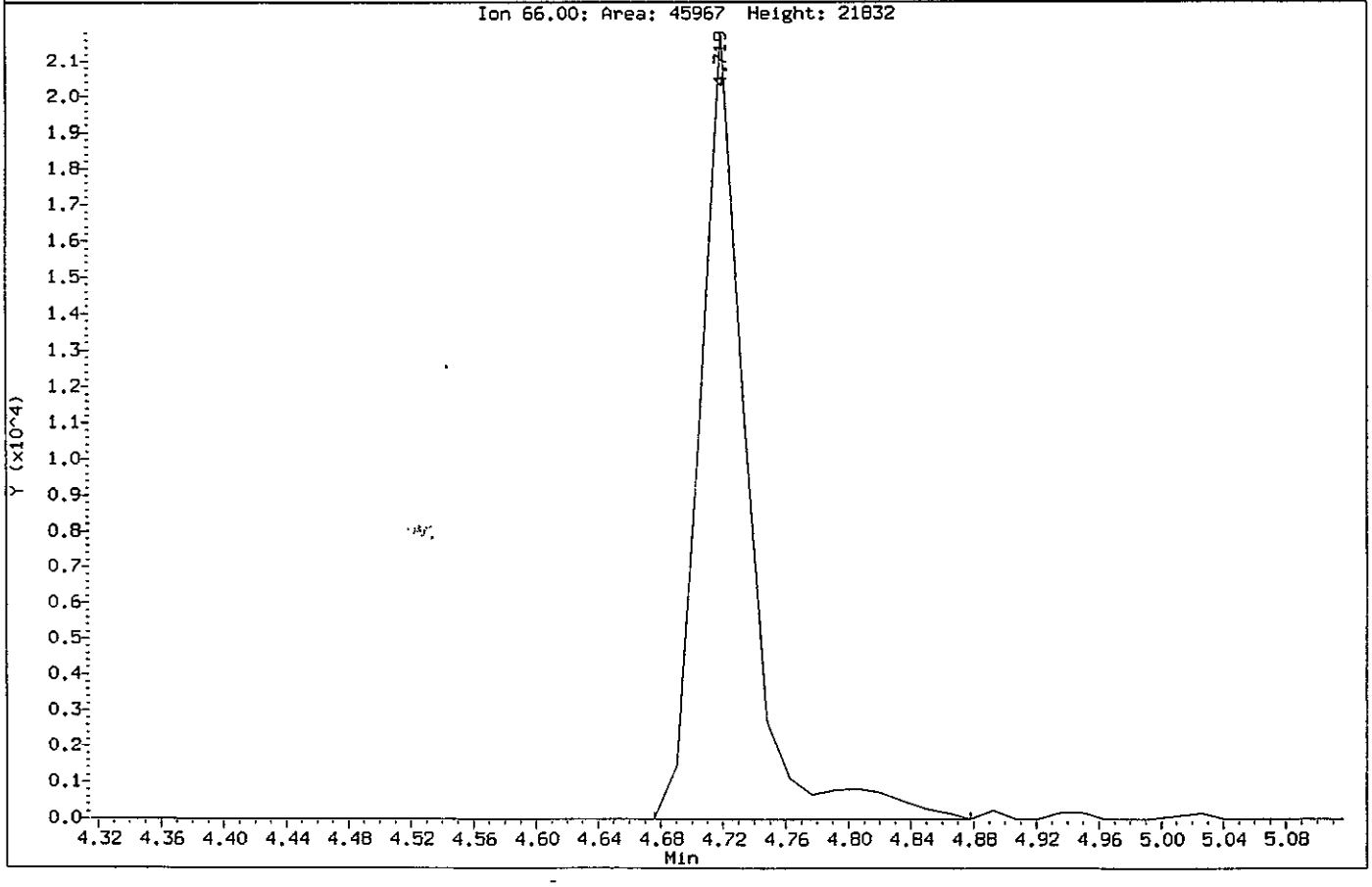
M - Compound response manually integrated.

12/26/00

Data File: /chem/W.i/Wsvr.p/wceto14.b/ce0101i2.d
Injection Date: 18-DEC-2000 13:44
Instrument: W.i
Client Sample ID: ASTD010

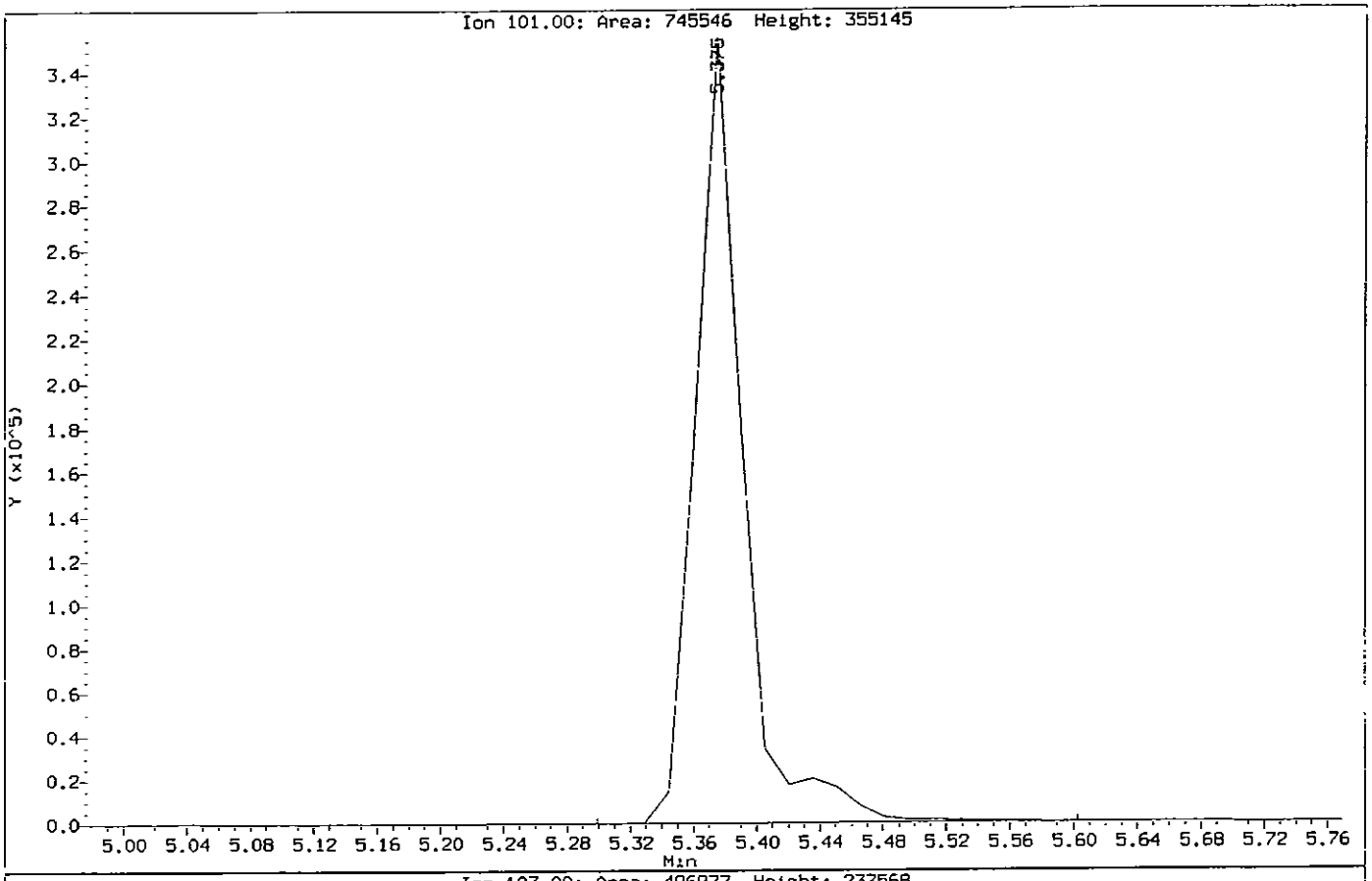
Compound: Chloroethane
CAS Number: 75-00-3

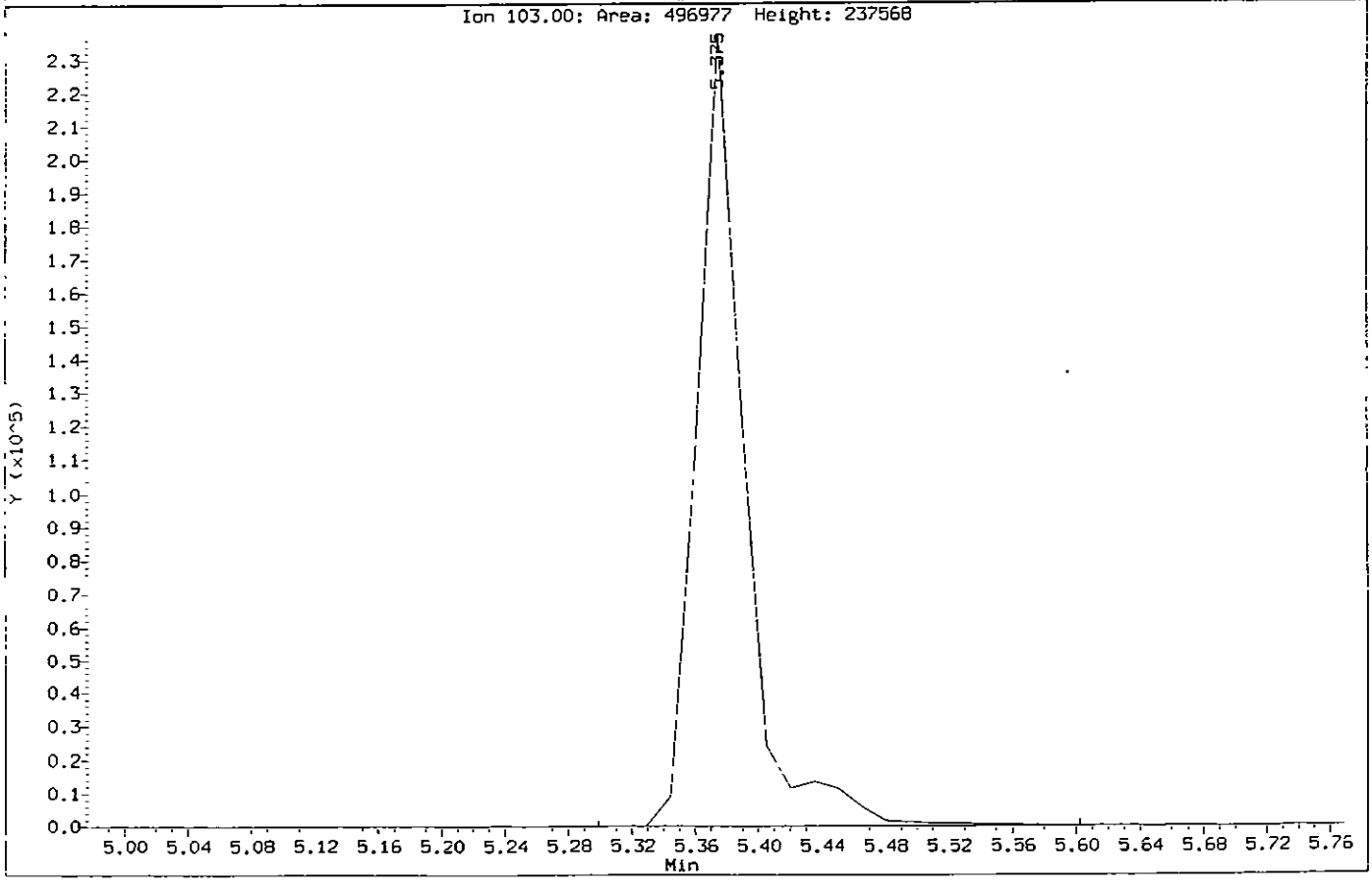




Data File: /chem/W.i/Wsvr.p/wceto14.b/ce010i2.d
Injection Date: 18-DEC-2000 13:44
Instrument: W.i
Client Sample ID: ASTD010

Compound: Trichlorofluoromethane
CAS Number: 75-69-4

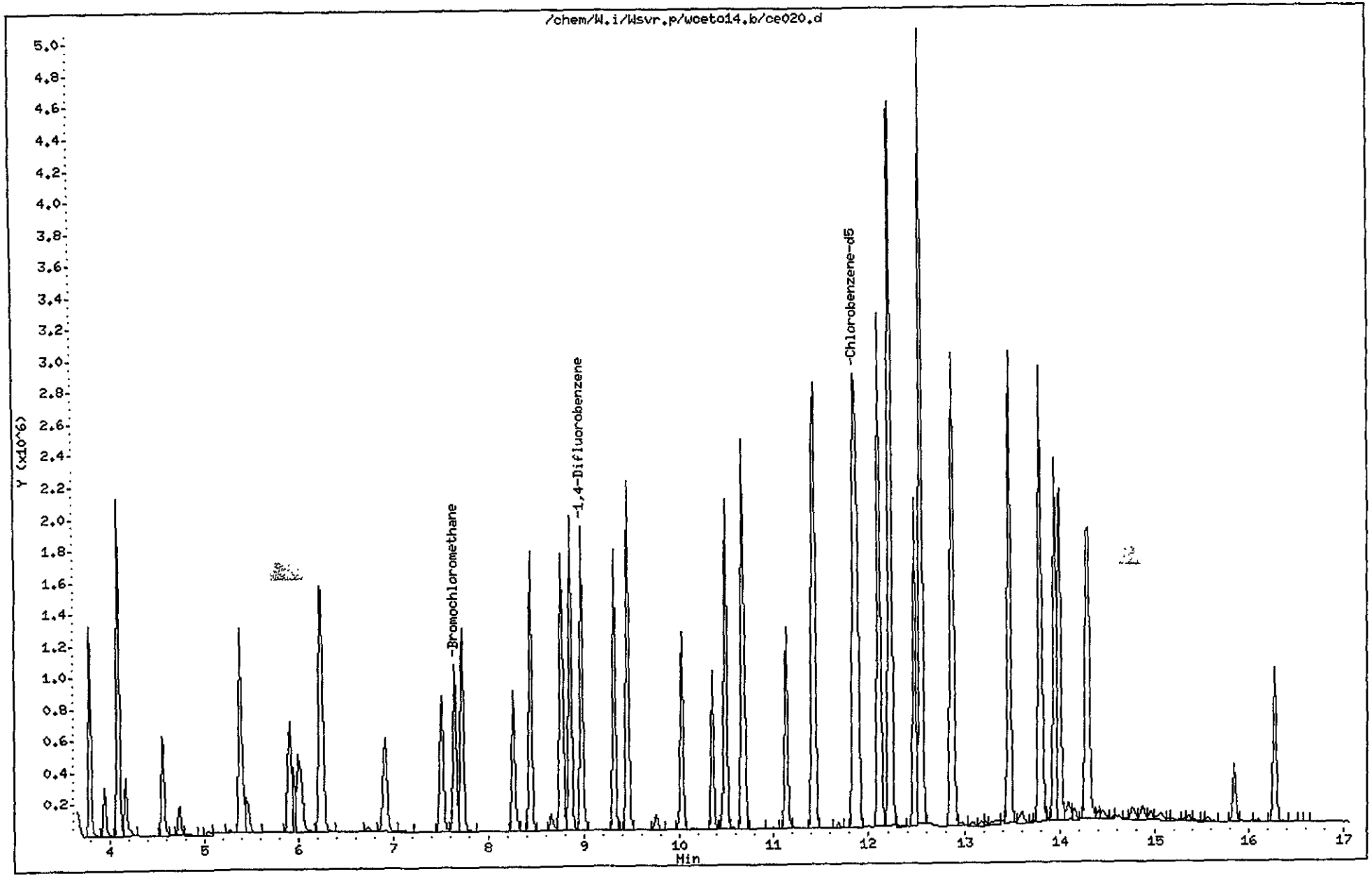




Data File: /chem/W.i/Wsvr.p/wceto14.b/ce020.d
Date : 18-DEC-2000 10:04
Client ID: ASTD020
Sample Info: ASTD020;ASTD020
Purge Volume: 200.0
Column phase: DB-1

Instrument: W.i

Operator: GMM
Column diameter: 0.35



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AIR TOXICS QUANTITATION REPORT

Data file : /chem/W.i/Wsvr.p/wceto14.b/ce020.d
Lab Smp Id: ASTD020 Client Smp ID: ASTD020
Inj Date : 18-DEC-2000 10:04
Operator : GMM Inst ID: W.i
Smp Info : ASTD020;ASTD020
Misc Info :
Comment :
Method : /chem/W.i/Wsvr.p/wceto14.b/ato14.m
Meth Date : 26-Dec-2000 14:39 mim Quant Type: ISTD
Cal Date : 18-DEC-2000 10:04 Cal File: ce020.d
Als bottle: 4 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50
Processing Host: chemsvr4

Concentration Formula: Amt * DF * X* Uf/Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
X	200.00000	method volume factor
Uf	1.00000	ng unit correction factor
Vo	200.00000	Sample Volume purged (mL)

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	AMOUNTS ON-COL (ppbv)
1	Dichlorodifluoromethane	85	3.787	3.797	(0.496)	1389222	20.0000	20
2	Chloromethane	50	3.945	3.955	(0.517)	349656	20.0000	20
3	Dichlorotetrafluoroethane	85	4.090	4.085	(0.536)	1355610	20.0000	20
4	Vinyl Chloride	62	4.176	4.171	(0.547)	390945	20.0000	20
5	Bromomethane	94	4.551	4.546	(0.596)	478742	20.0000	20
6	Chloroethane	64	4.738	4.719	(0.621)	226284	20.0000	20(M)
7	Trichlorofluoromethane	101	5.390	5.375	(0.706)	1364964	20.0000	20(M)
8	1,1-Dichloroethene	96	5.906	5.891	(0.773)	468570	20.0000	20(Q)
9	Methylene Chloride	49	5.997	5.982	(0.785)	516473	20.0000	20
10	Freon TF	101	6.225	6.210	(0.815)	1079421	20.0000	20
11	1,1-Dichloroethane	63	6.908	6.892	(0.905)	863067	20.0000	20
12	cis-1,2-Dichloroethene	61	7.515	7.484	(0.984)	711115	20.0000	20
* 13	Bromochloromethane	128	7.636	7.621	(1.000)	334158	10.0000	(Q)
14	Chloroform	83	7.727	7.697	(1.012)	1212958	20.0000	20

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	AMOUNTS ON-COL (ppbv)
	15 1,2-Dichloroethane	62	8.258	8.243	(1.081)	828558	20.0000	20
	16 1,1,1-Trichloroethane	97	8.440	8.425	(1.105)	1169805	20.0000	20
	17 Benzene	78	8.759	8.744	(0.976)	1616642	20.0000	20
	18 Carbon Tetrachloride	117	8.850	8.835	(0.986)	1199363	20.0000	20
*	19 1,4-Difluorobenzene	114	8.972	8.956	(1.000)	1572787	10.0000	
	20 1,2-Dichloropropane	63	9.305	9.290	(1.037)	609216	20.0000	20
	21 Trichloroethene	95	9.457	9.442	(1.054)	783389	20.0000	20
	22 cis-1,3-Dichloropropene	75	10.019	10.003	(1.117)	805179	20.0000	20
	23 trans-1,3-Dichloropropene	75	10.353	10.337	(1.154)	594333	20.0000	20
	24 1,1,2-Trichloroethane	83	10.489	10.474	(1.169)	647665	20.0000	20
	25 Toluene	92	10.671	10.656	(0.900)	1259073	20.0000	20
	26 1,2-Dibromoethane	107	11.142	11.126	(0.940)	1063489	20.0000	20
	27 Tetrachloroethene	166	11.430	11.415	(0.964)	973376	20.0000	20
*	28 Chlorobenzene-d5	117	11.855	11.840	(1.000)	1742488	10.0000	
	29 Chlorobenzene	112	11.885	11.870	(1.003)	1609737	20.0000	20
	30 Ethylbenzene	91	12.113	12.098	(1.022)	2853102	20.0000	20
	31 Xylene (m,p)	106	12.234	12.219	(1.032)	2077984	40.0000	40
	32 Styrene	104	12.477	12.462	(1.052)	1256259	20.0000	20
M	33 Xylene (total)	106				3098165	20.0000	60
	34 1,1,2,2-Tetrachloroethane	83	12.538	12.523	(1.058)	1598540	20.0000	20
	35 Xylene (o)	106	12.553	12.538	(1.059)	1020181	20.0000	20
	36 1,3,5-Trimethylbenzene	105	13.479	13.463	(1.137)	2166747	20.0000	20
	37 1,2,4-Trimethylbenzene	105	13.797	13.782	(1.164)	2031303	20.0000	20
	38 1,3-Dichlorobenzene	146	13.949	13.934	(1.177)	1385643	20.0000	20
	39 1,4-Dichlorobenzene	146	14.010	13.995	(1.182)	1410949	20.0000	20
	40 1,2-Dichlorobenzene	146	14.298	14.283	(1.206)	1148429	20.0000	20
	41 1,2,4-Trichlorobenzene	180	15.846	15.846	(1.337)	153786	20.0000	20
	42 Hexachlorobutadiene	225	16.271	16.271	(1.373)	225050	20.0000	20

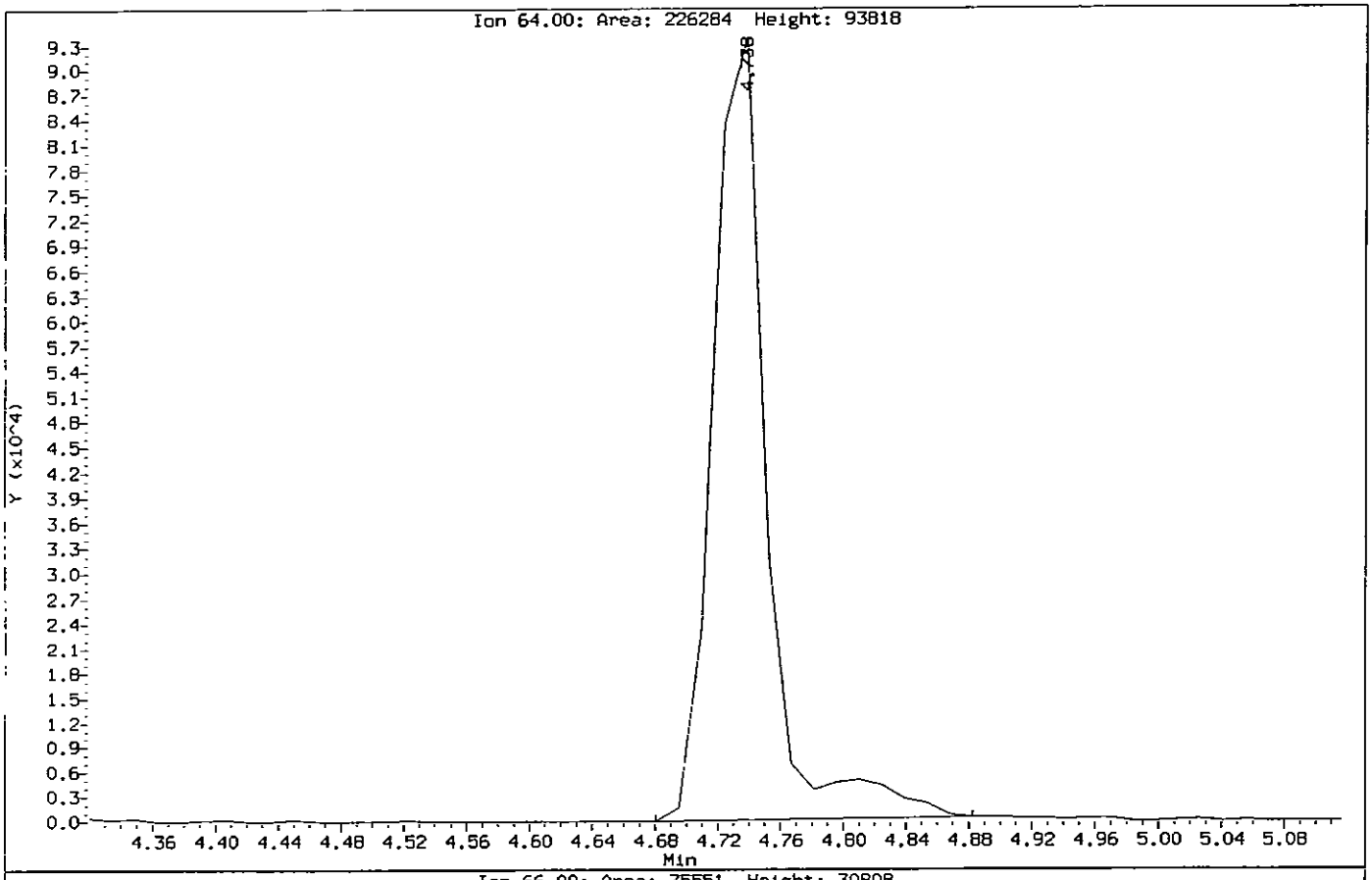
QC Flag Legend

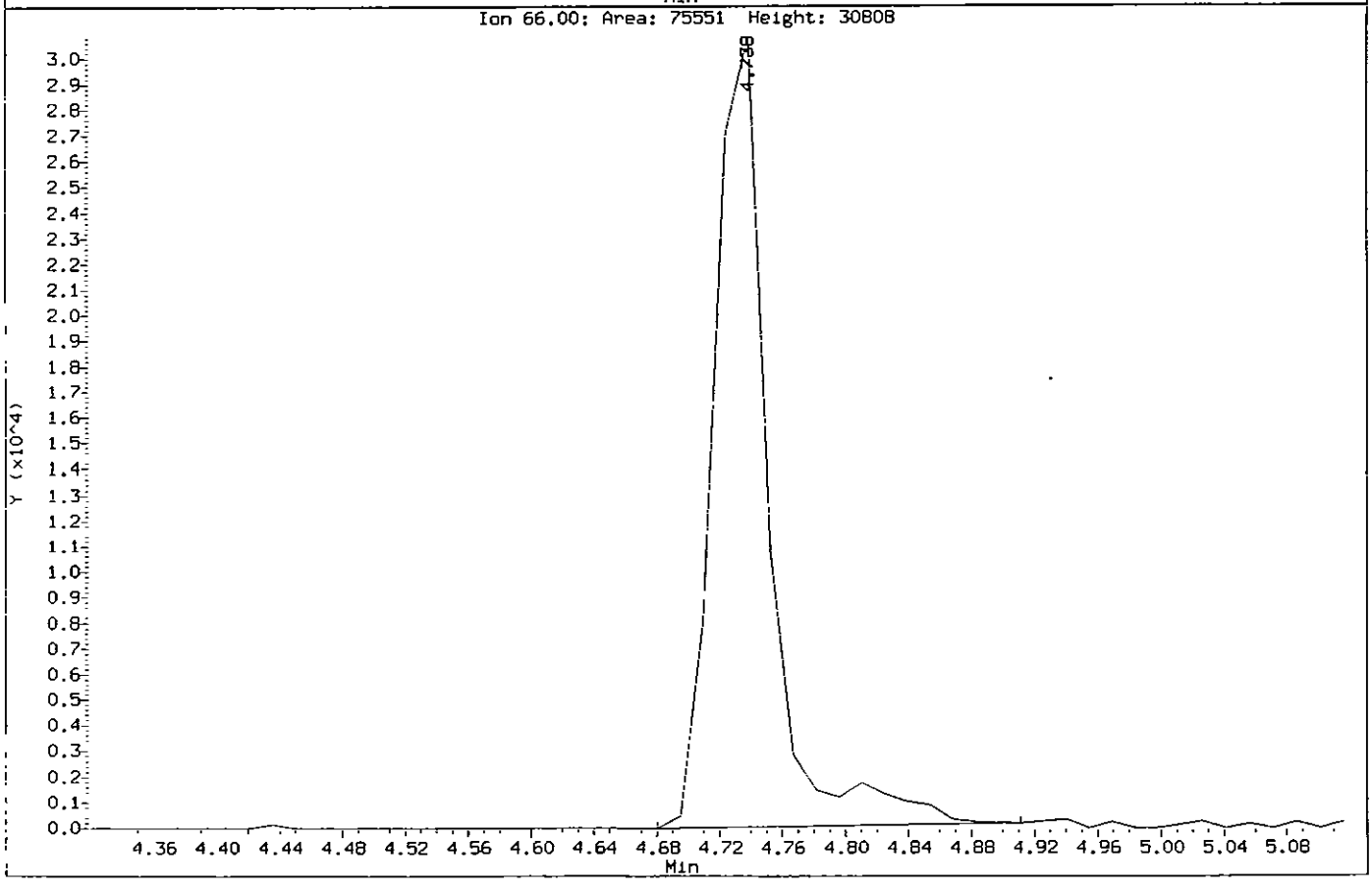
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

JWW 12/26/00

Data File: /chem/W.i/Wsvr.p/wceto14.b/ce020.d
Injection Date: 18-DEC-2000 10:04
Instrument: W.i
Client Sample ID: ASTD020

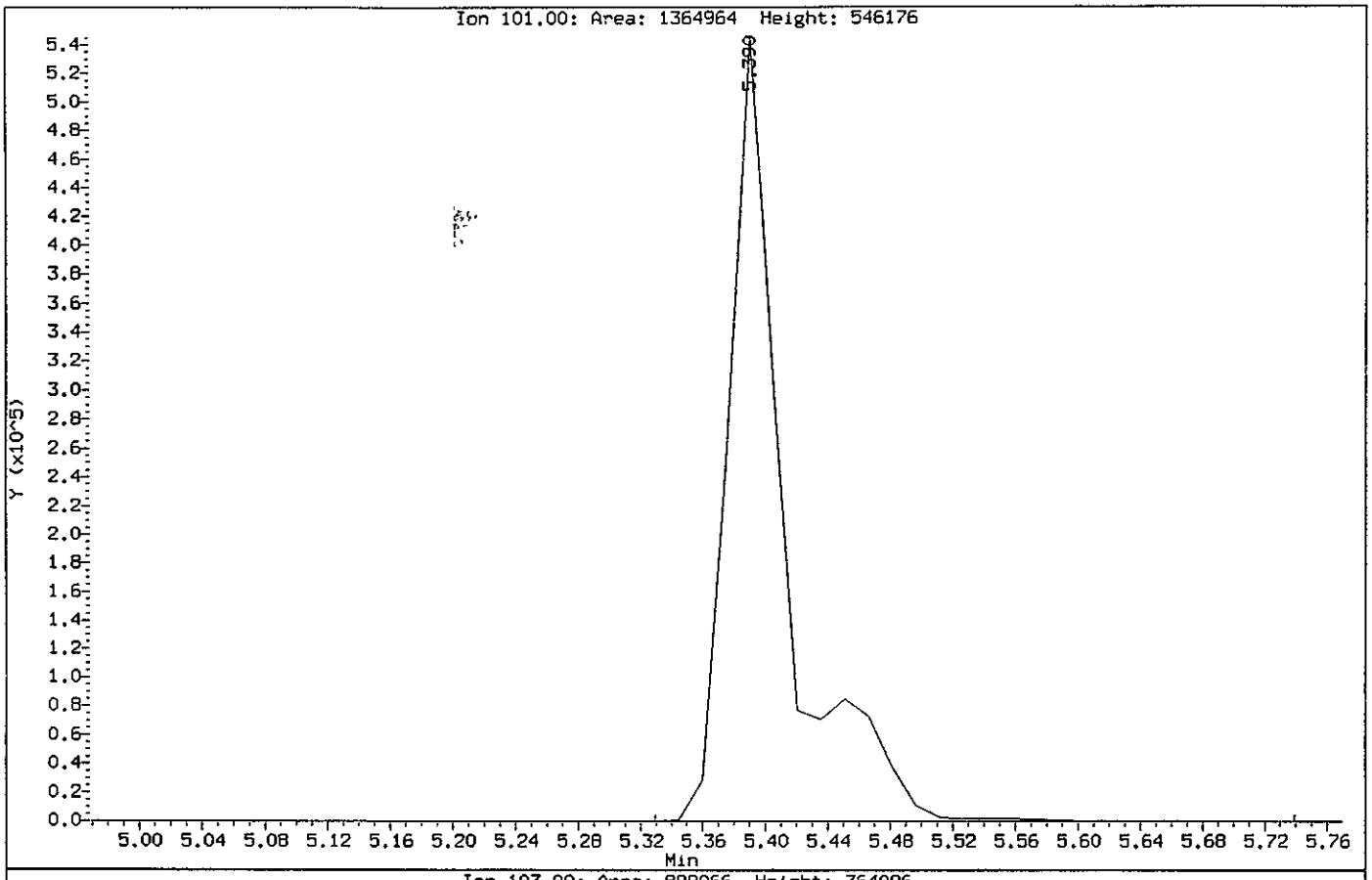
Compound: Chloroethane
CAS Number: 75-00-3

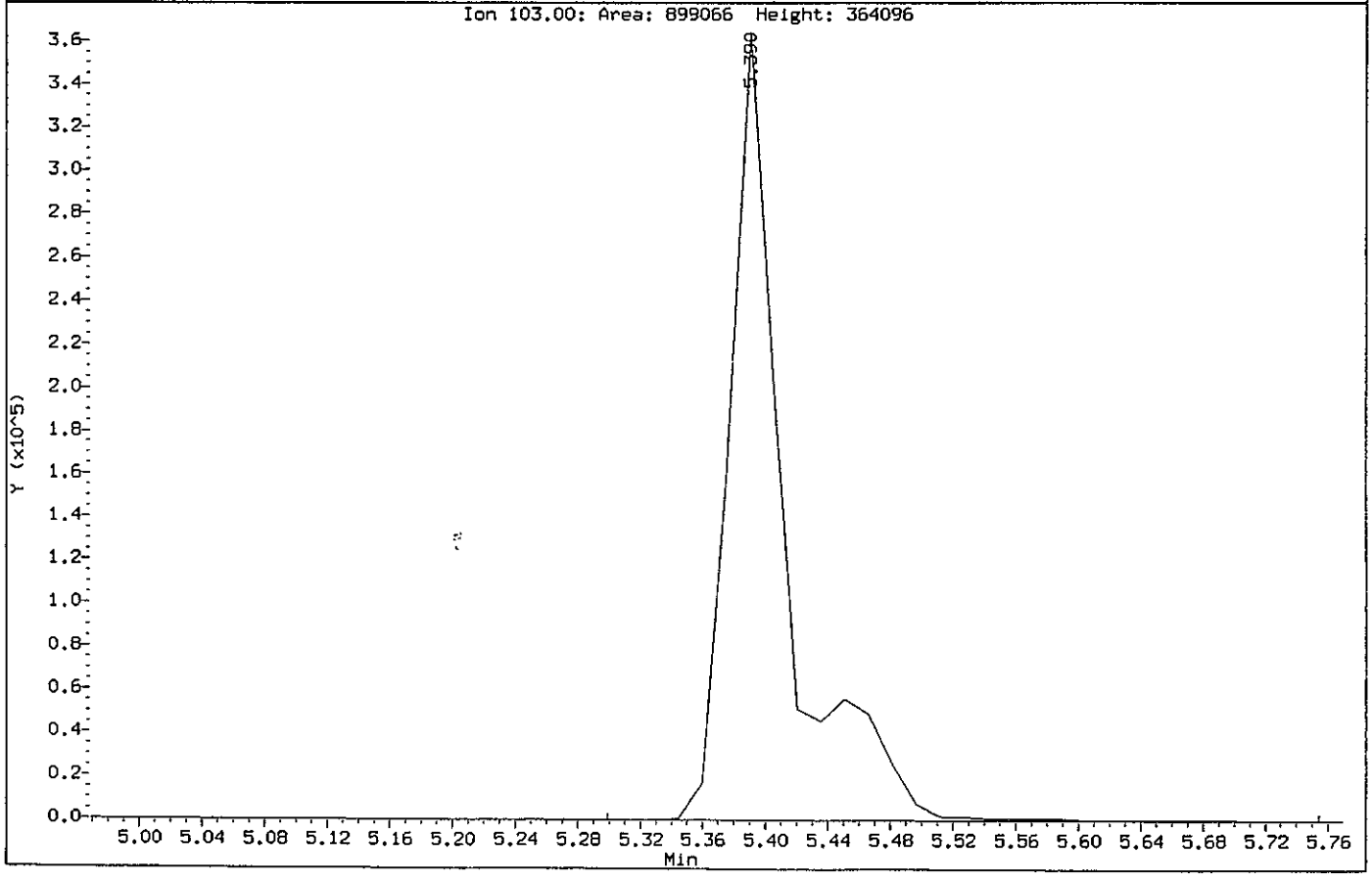




Data File: /chem/W.i/Wsvr.p/wceto14.b/ce020.d
Injection Date: 18-DEC-2000 10:04
Instrument: W.i
Client Sample ID: ASTD020

Compound: Trichlorofluoromethane
CAS Number: 75-69-4

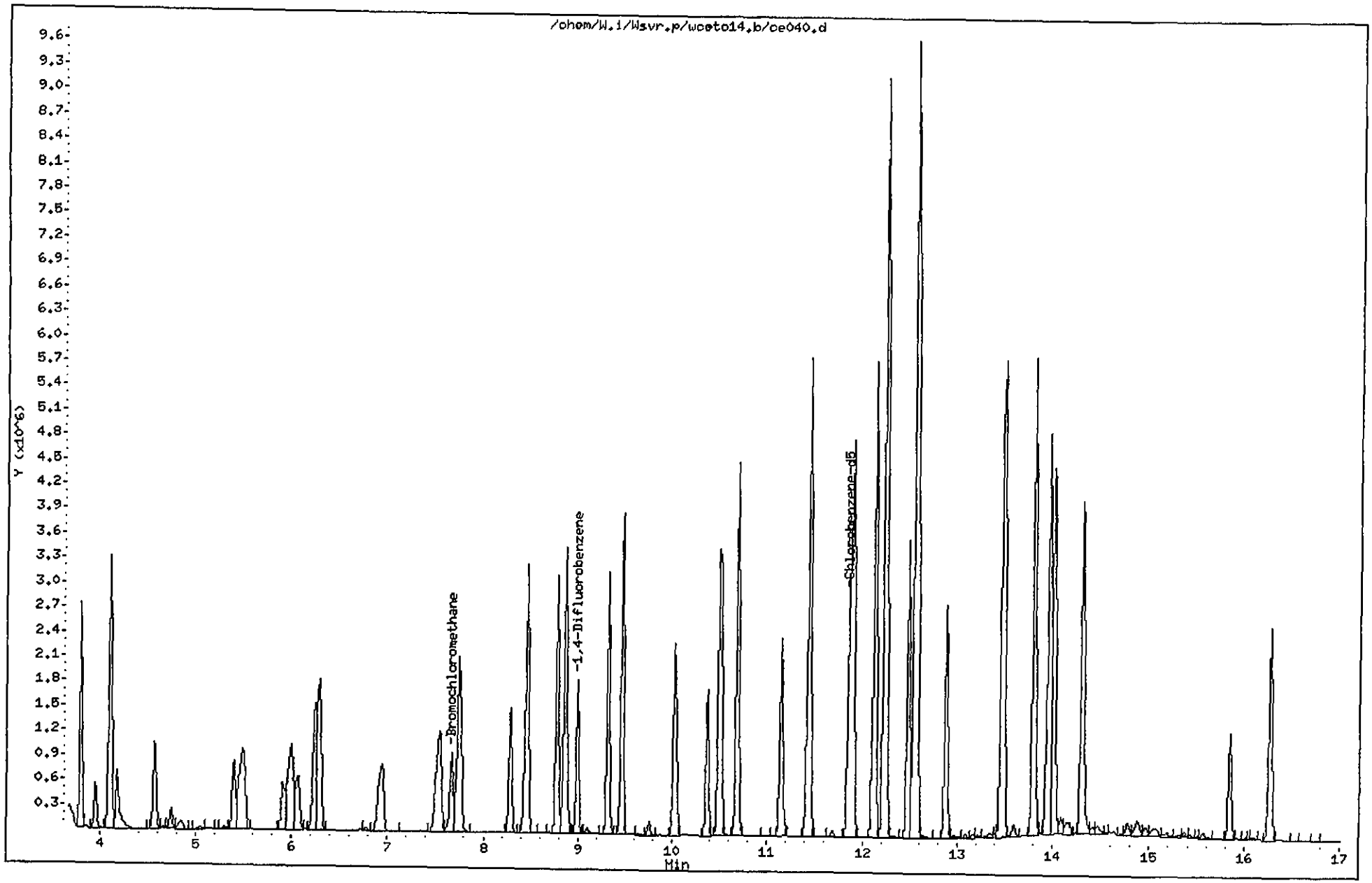




Data File: /chem/W.i/Wsvr.p/wcoto14.b/ce040.d
Date : 18-DEC-2000 10:38
Client ID: ASTD040
Sample Info: ASTD040;ASTD040
Purge Volume: 200.0
Column phase: DB-1

Instrument: W.i

Operator: GMM
Column diameter: 0.35



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AIR TOXICS QUANTITATION REPORT

Data file : /chem/W.i/Wsvr.p/wceto14.b/ce040.d
Lab Smp Id: ASTD040 Client Smp ID: ASTD040
Inj Date : 18-DEC-2000 10:38
Operator : GMM Inst ID: W.i
Smp Info : ASTD040;ASTD040
Misc Info :
Comment :
Method : /chem/W.i/Wsvr.p/wceto14.b/ato14.m
Meth Date : 26-Dec-2000 14:39 mim Quant Type: ISTD
Cal Date : 18-DEC-2000 10:38 Cal File: ce040.d
Als bottle: 5 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50
Processing Host: chemsvr4

Concentration Formula: Amt * DF * X* Uf/Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
X	200.00000	method volume factor
Uf	1.00000	ng unit correction factor
Vo	200.00000	Sample Volume purged (mL)

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	AMOUNTS ON-COL (ppbv)
1	Dichlorodifluoromethane	85	3.782	3.797	(0.493)	2465306	38.0000	37
2	Chloromethane	50	3.940	3.955	(0.514)	669031	40.0000	39
3	Dichlorotetrafluoroethane	85	4.099	4.085	(0.535)	2589407	40.0000	39(M)
4	Vinyl Chloride	62	4.171	4.171	(0.544)	740044	40.0000	39
5	Bromomethane	94	4.560	4.546	(0.595)	959527	40.0000	40(AM)
6	Chloroethane	64	4.748	4.719	(0.619)	481500	40.0000	41(AM)
7	Trichlorofluoromethane	101	5.482	5.375	(0.715)	2557931	40.0000	39(M)
8	1,1-Dichloroethene	96	5.967	5.891	(0.778)	909769	40.0000	40(M)
9	Methylene Chloride	49	6.058	5.982	(0.790)	1007467	40.0000	40
10	Freon TF	101	6.286	6.210	(0.820)	2068956	40.0000	39(M)
11	1,1-Dichloroethane	63	6.938	6.892	(0.905)	1665783	40.0000	40
12	cis-1,2-Dichloroethene	61	7.530	7.484	(0.982)	1255985	40.0000	38
* 13	Bromochloromethane	128	7.667	7.621	(1.000)	330403	10.0000	
14	Chloroform	83	7.743	7.697	(1.010)	2169595	40.0000	38

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	AMOUNTS ON-COL (ppbv)
	15 1,2-Dichloroethane	62	8.289	8.243	(1.081)	1552900	40.0000	39
	16 1,1,1-Trichloroethane	97	8.456	8.425	(1.103)	2126643	40.0000	38
	17 Benzene	78	8.775	8.744	(0.976)	2907385	40.0000	39
	18 Carbon Tetrachloride	117	8.866	8.835	(0.986)	2179159	40.0000	39
*	19 1,4-Difluorobenzene	114	8.987	8.956	(1.000)	1513848	10.0000	
	20 1,2-Dichloropropane	63	9.321	9.290	(1.037)	1094847	40.0000	39
	21 Trichloroethene	95	9.473	9.442	(1.054)	1405450	40.0000	38
	22 cis-1,3-Dichloropropene	75	10.019	10.003	(1.115)	1593876	40.0000	40(A)
	23 trans-1,3-Dichloropropene	75	10.368	10.337	(1.154)	1175811	40.0000	40(A)
	24 1,1,2-Trichloroethane	83	10.490	10.474	(1.167)	1166043	40.0000	39
	25 Toluene	92	10.687	10.656	(0.901)	2340569	40.0000	40
	26 1,2-Dibromoethane	107	11.142	11.126	(0.940)	2004367	40.0000	40
	27 Tetrachloroethene	166	11.430	11.415	(0.964)	1799337	40.0000	39
*	28 Chlorobenzene-d5	117	11.855	11.840	(1.000)	1652791	10.0000	
	29 Chlorobenzene	112	11.886	11.870	(1.003)	2941041	40.0000	39
	30 Ethylbenzene	91	12.113	12.098	(1.022)	5209340	40.0000	39
	31 Xylene (m,p)	106	12.235	12.219	(1.032)	3998091	80.0000	80(A)
	32 Styrene	104	12.478	12.462	(1.052)	2266830	40.0000	39
M	33 Xylene (total)	106				5962135	40.0000	120
	34 1,1,2,2-Tetrachloroethane	83	12.553	12.523	(1.059)	2982197	40.0000	40
	35 Xylene (o)	106	12.553	12.538	(1.059)	1964044	40.0000	40(A)
	36 1,3,5-Trimethylbenzene	105	13.479	13.463	(1.137)	4187308	40.0000	40(A)
	37 1,2,4-Trimethylbenzene	105	13.798	13.782	(1.164)	4028961	40.0000	41(A)
	38 1,3-Dichlorobenzene	146	13.950	13.934	(1.177)	2866831	40.0000	42(A)
	39 1,4-Dichlorobenzene	146	14.010	13.995	(1.182)	2864819	40.0000	41(A)
	40 1,2-Dichlorobenzene	146	14.299	14.283	(1.206)	2420280	40.0000	42(A)
	41 1,2,4-Trichlorobenzene	180	15.847	15.846	(1.337)	533290	40.0000	52(A)
	42 Hexachlorobutadiene	225	16.272	16.271	(1.373)	613645	40.0000	47(A)

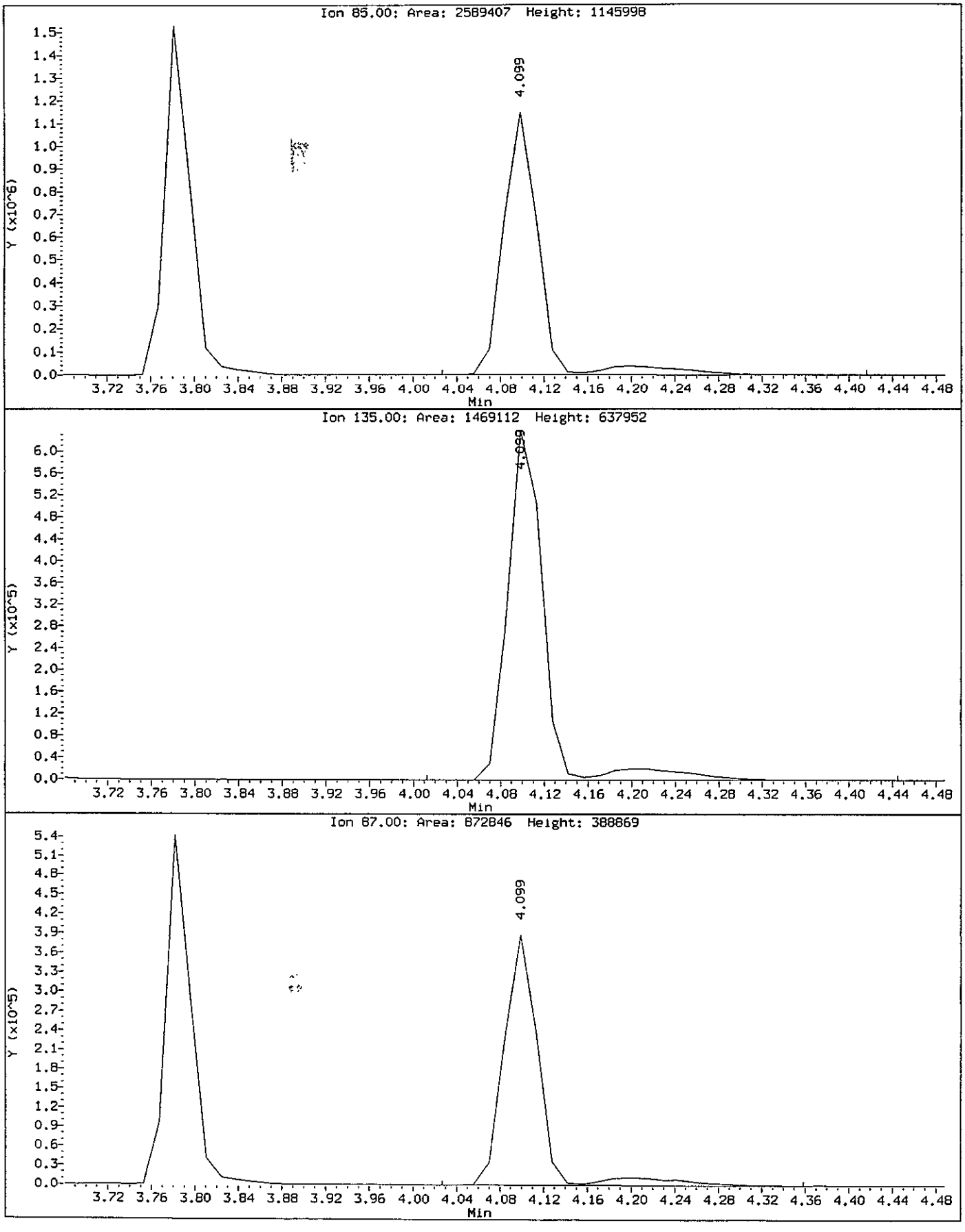
QC Flag Legend

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

mm 12/26/00

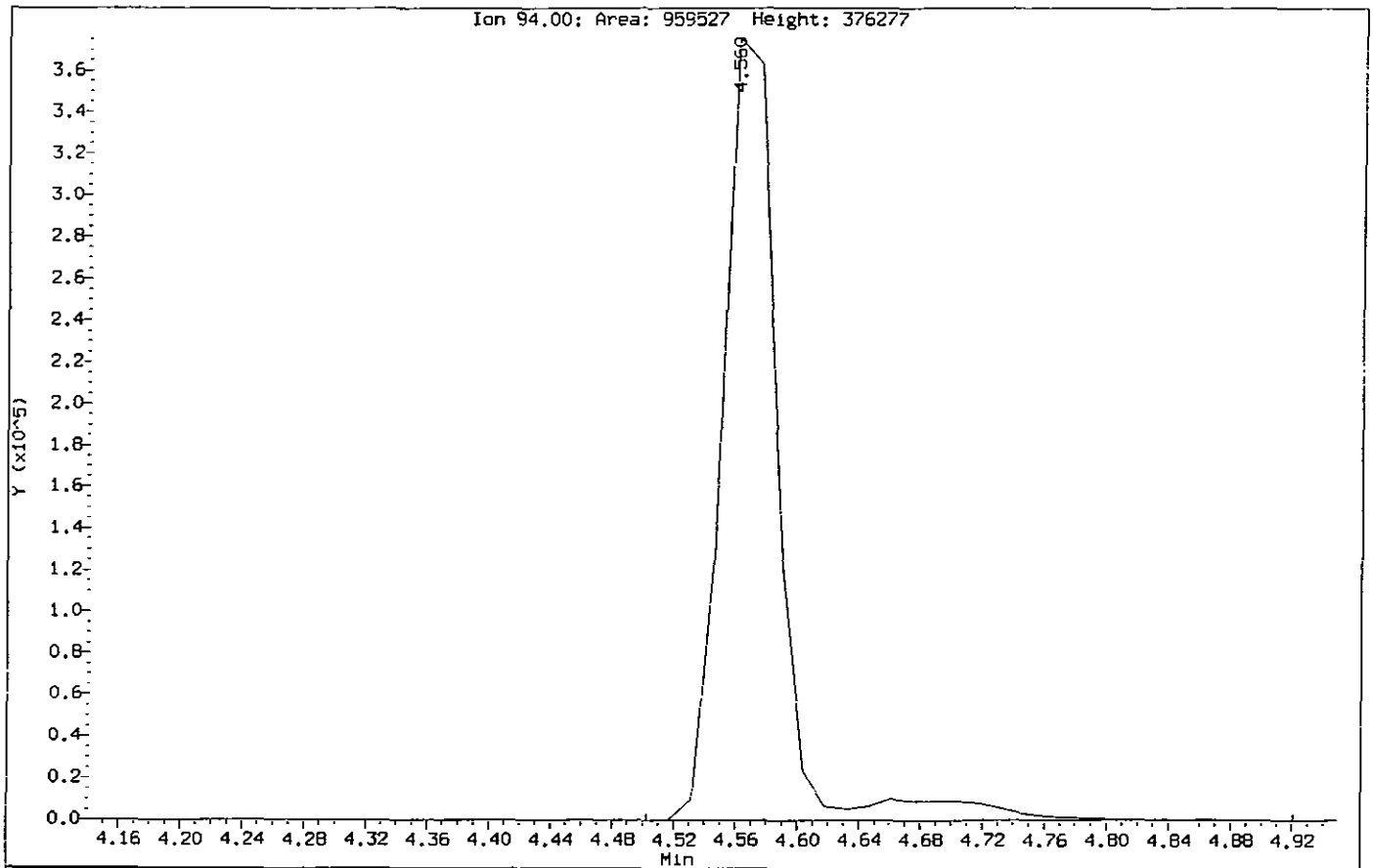
Data File: /chem/W.i/Wsvr.p/wceto14.b/ce040.d
Injection Date: 18-DEC-2000 10:38
Instrument: W.i
Client Sample ID: ASTD040

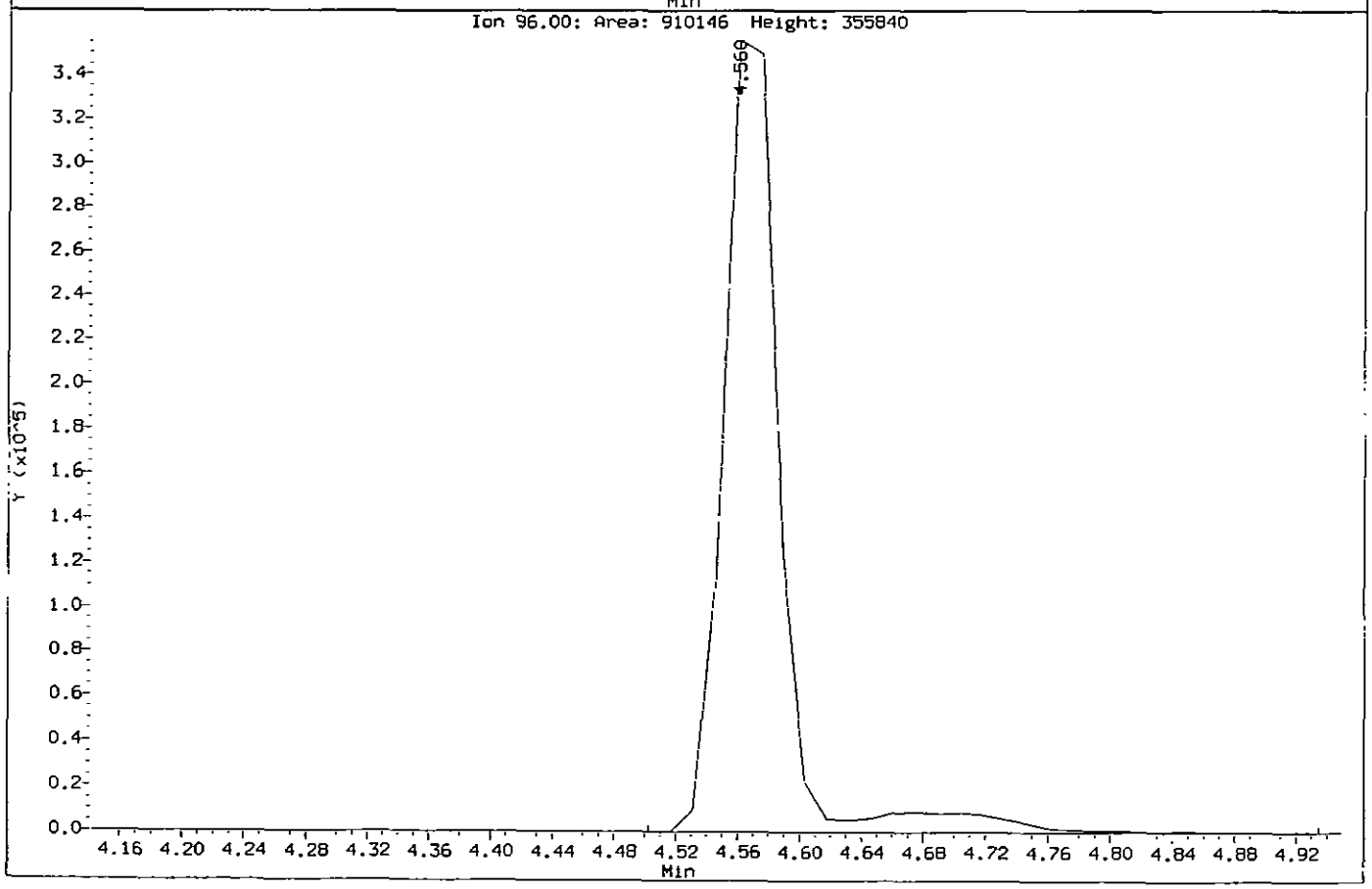
Compound: Dichlorotetrafluoroethane
CAS Number: 76-14-2



Data File: /chem/W.i/Wsvr.p/wceto14.b/ce040.d
Injection Date: 18-DEC-2000 10:38
Instrument: W.i
Client Sample ID: ASTD040

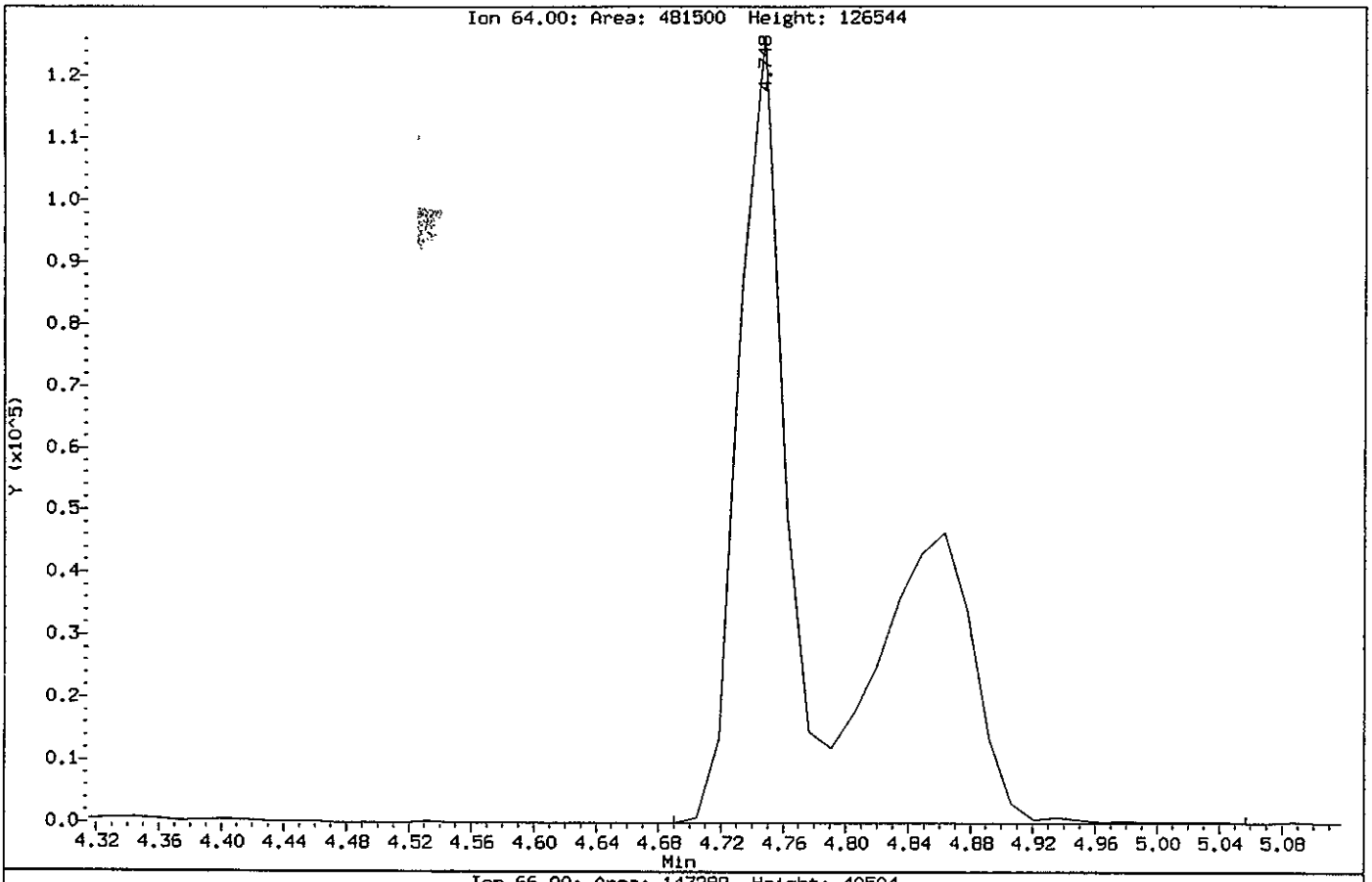
Compound: Bromomethane
CAS Number: 74-83-9

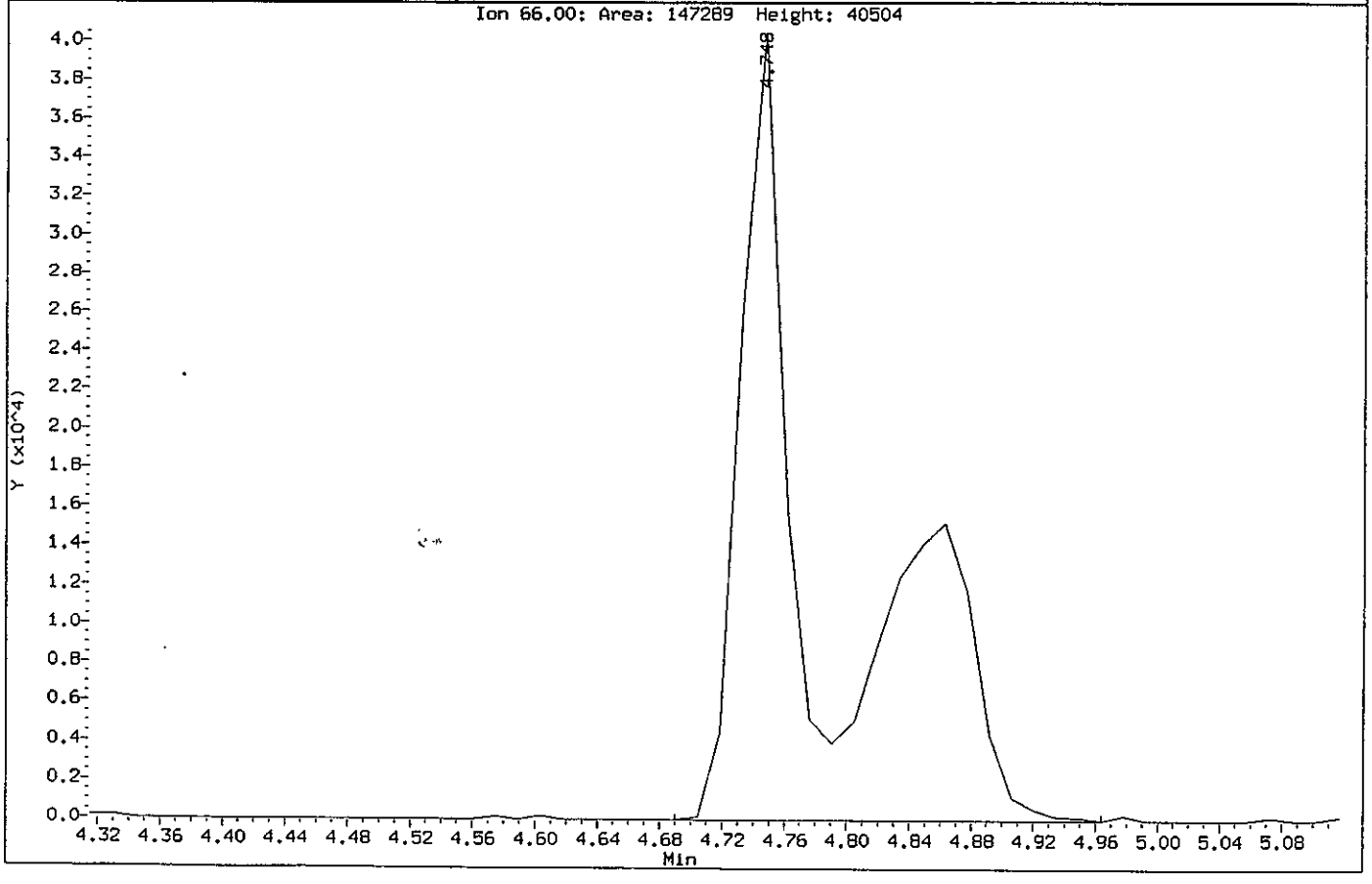




Data File: /chem/W.i/Wsvr.p/wceto14.b/ce040.d
Injection Date: 18-DEC-2000 10:38
Instrument: W.i
Client Sample ID: ASTD040

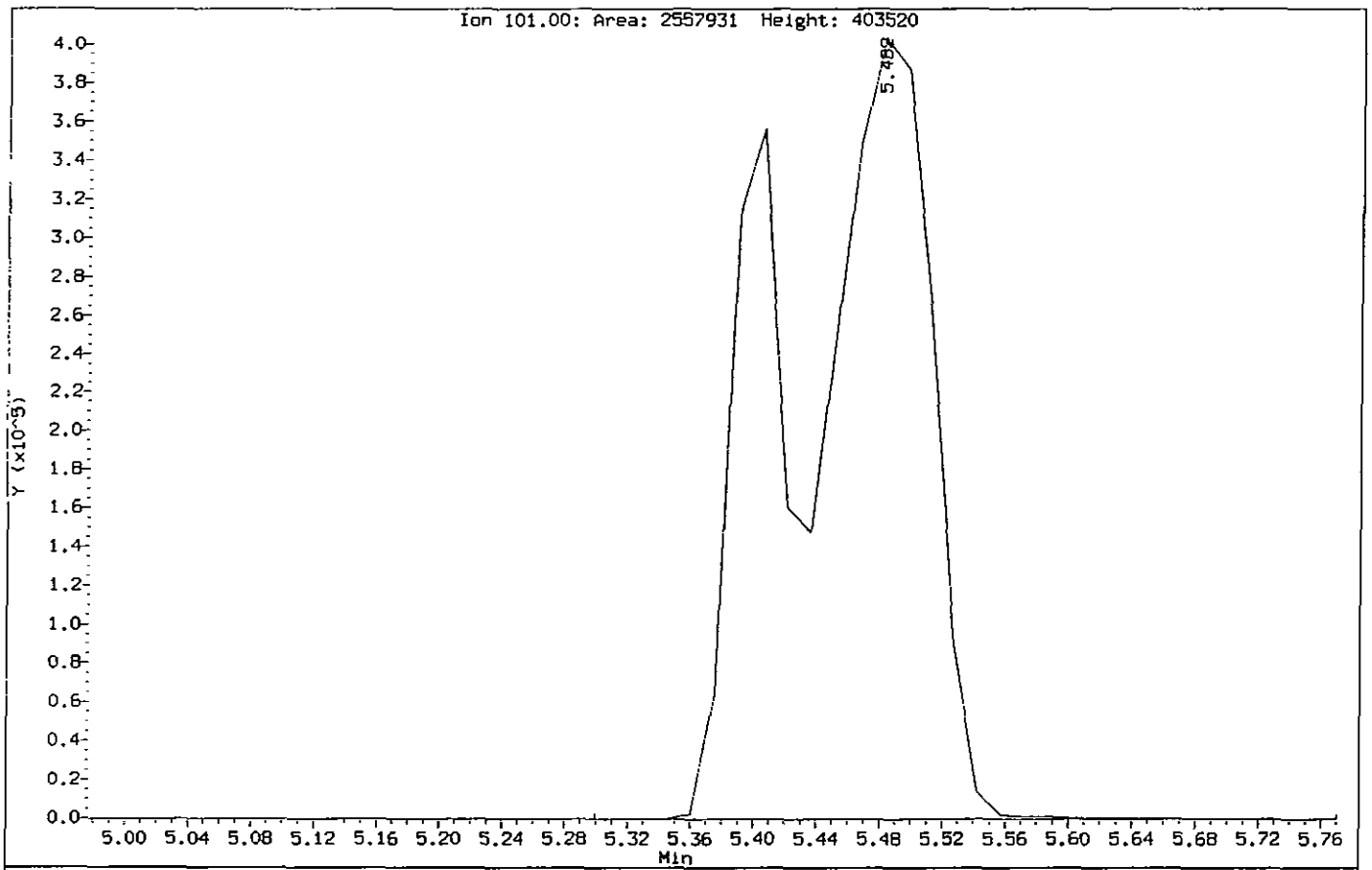
Compound: Chloroethane
CAS Number: 75-00-3

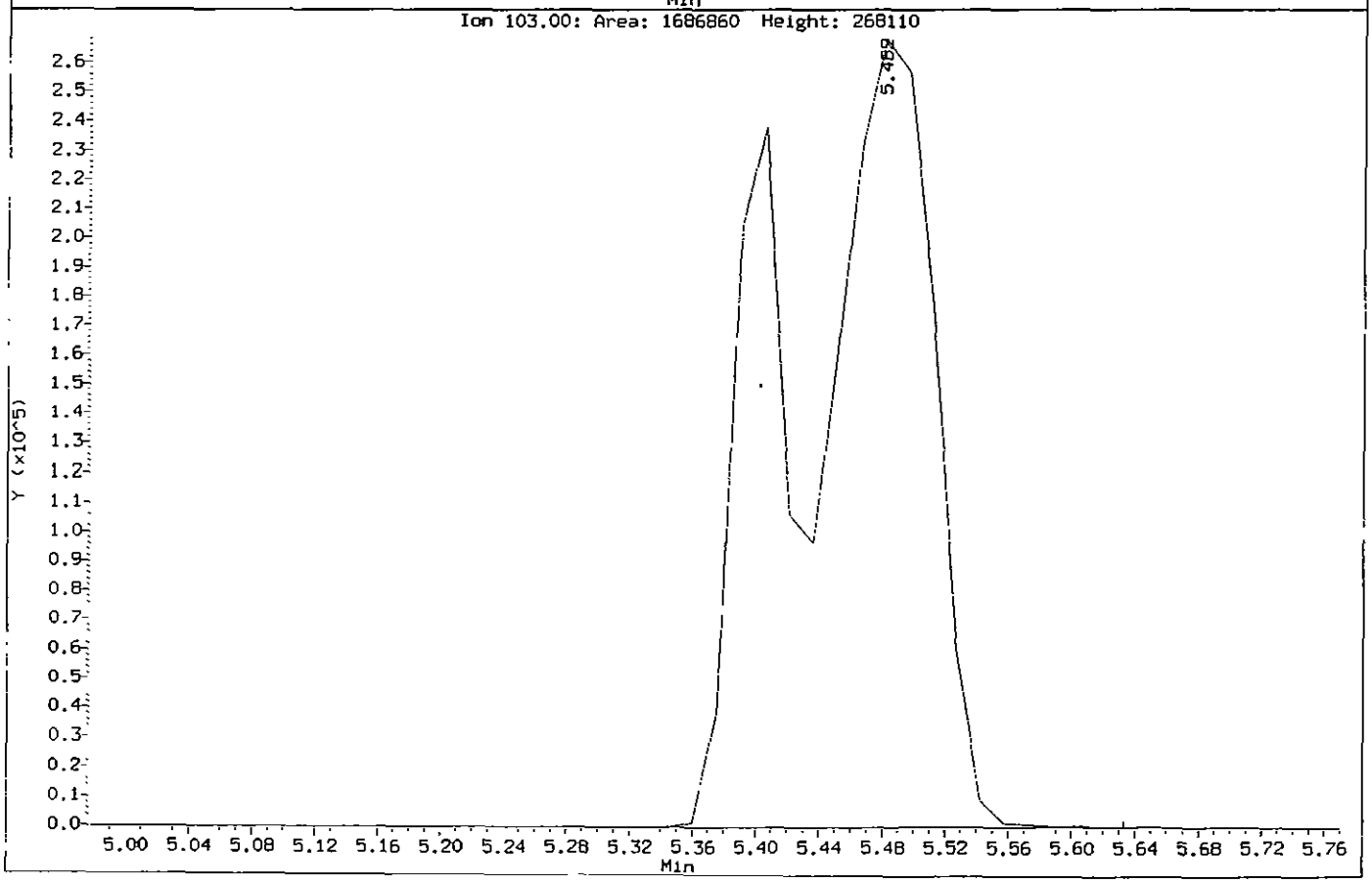




Data File: /chem/W.i/Wsvr.p/wceto14.b/ce040.d
Injection Date: 18-DEC-2000 10:38
Instrument: W.i
Client Sample ID: ASTD040

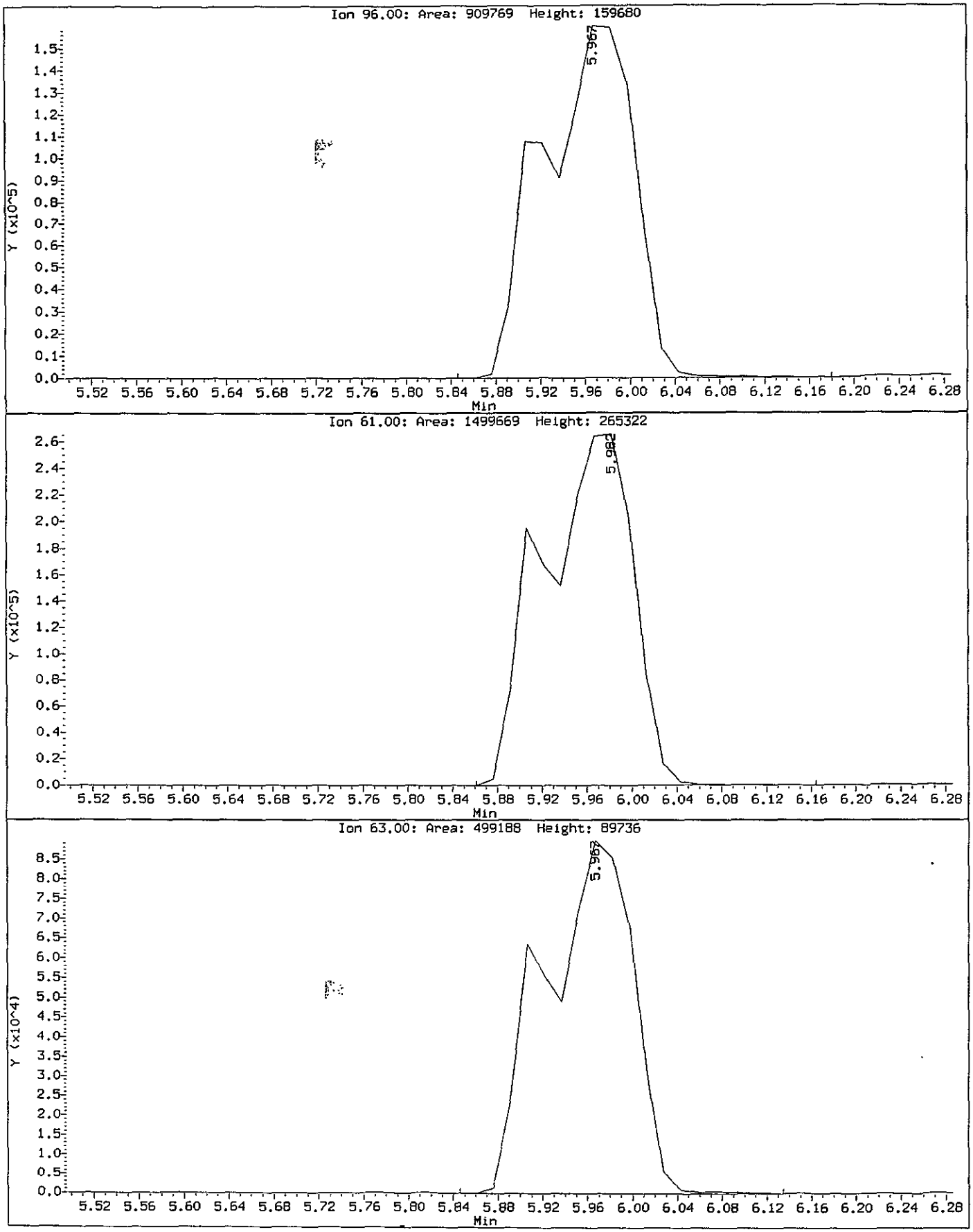
Compound: Trichlorofluoromethane
CAS Number: 75-69-4





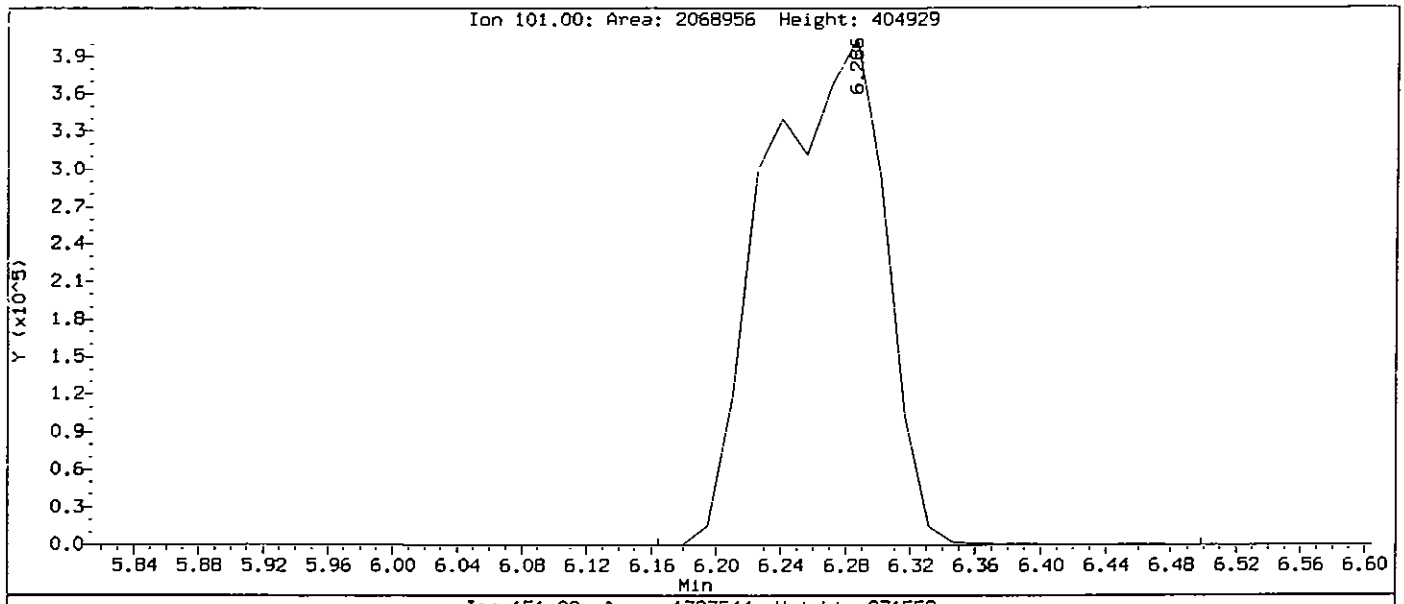
Data File: /chem/W.i/Wsvr.p/wceto14.b/ce040.d
Injection Date: 18-DEC-2000 10:38
Instrument: W.i
Client Sample ID: ASTD040

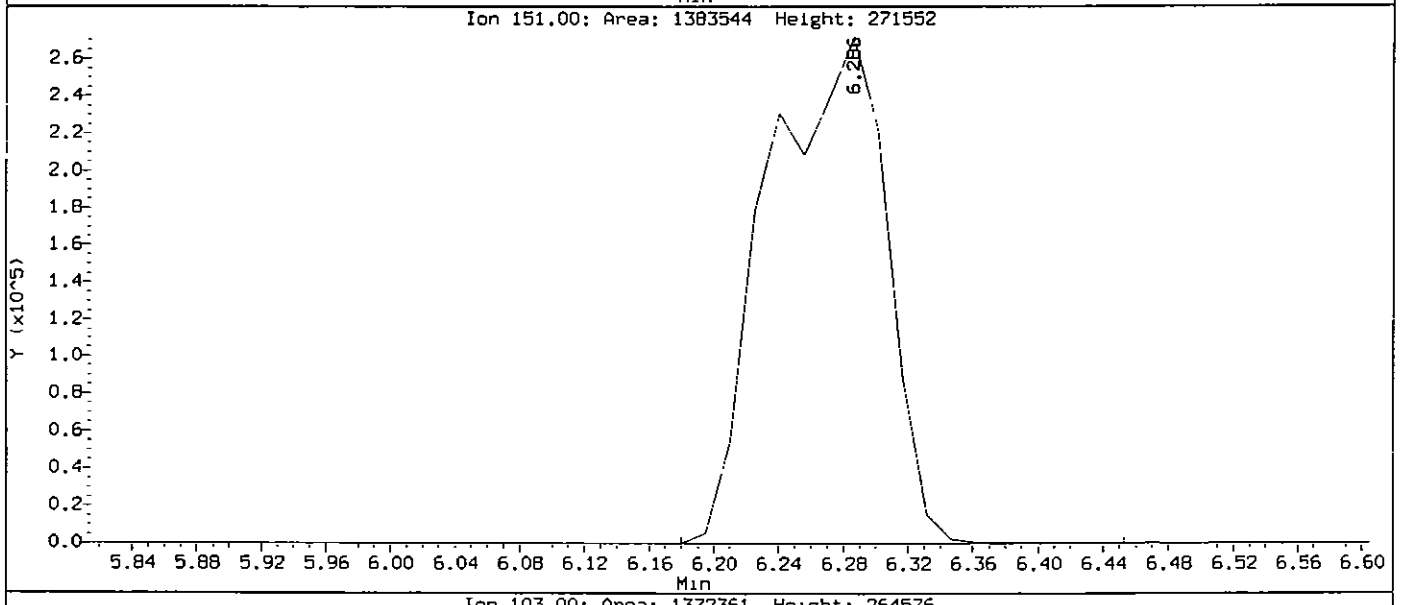
Compound: 1,1-Dichloroethene
CAS Number: 75-35-4

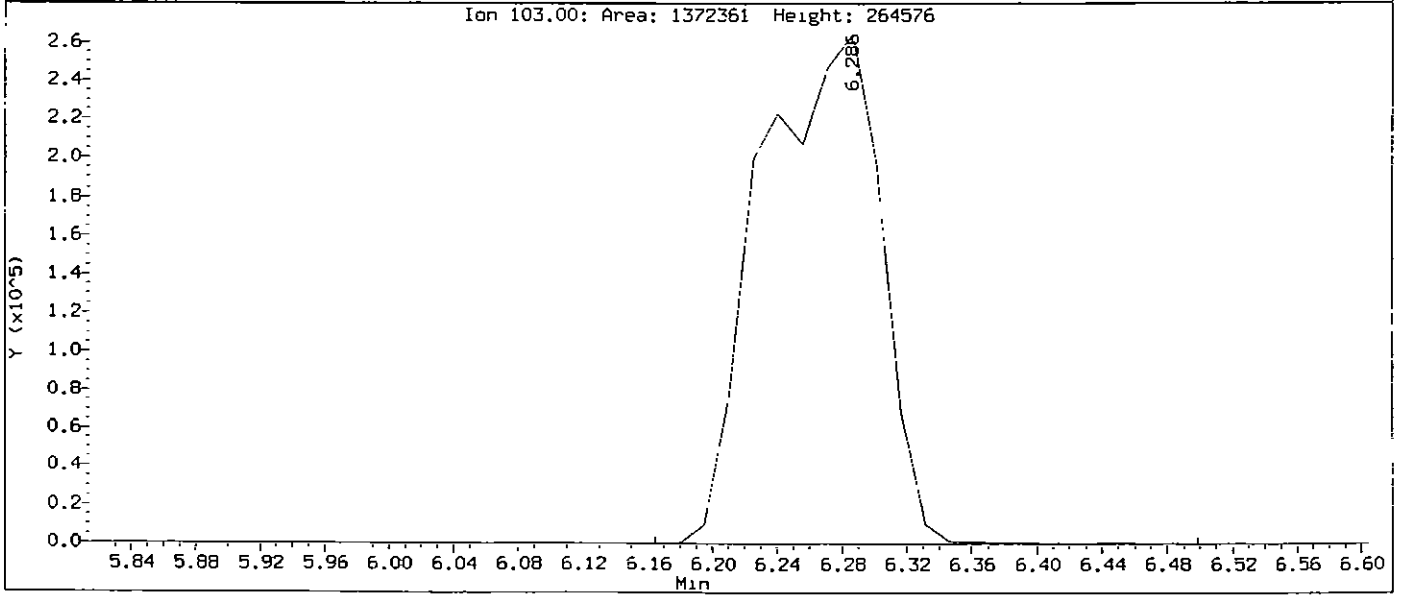


Data File: /chem/W.i/Wsvr.p/wceto14.b/ce040.d
Injection Date: 18-DEC-2000 10:38
Instrument: W.i
Client Sample ID: ASTD040

Compound: Freon TF
CAS Number: 76-13-1







STL Burlington

INITIAL CALIBRATION DATA

Start Cal Date : 18-DEC-2000 10:04
End Cal Date : 18-DEC-2000 13:44
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/W.i/Wsvr.p/wceto14.b/ato14.m
Cal Date : 26-Dec-2000 14:40 mim
Curve Type : Average

Calibration File Names:
Level 1: /chem/W.i/Wsvr.p/wceto14.b/ce0005i2.d
Level 2: /chem/W.i/Wsvr.p/wceto14.b/ce005.d
Level 3: /chem/W.i/Wsvr.p/wceto14.b/ce010i2.d
Level 4: /chem/W.i/Wsvr.p/wceto14.b/ce020.d
Level 5: /chem/W.i/Wsvr.p/wceto14.b/ce040.d

Compound	0.50000 Level 1	5.000 Level 2	10.000 Level 3	20.000 Level 4	40.000 Level 5	___ RRF	% RSD
1 Dichlorodifluoromethane	2.82890	2.55636	2.33420	2.07869	1.96356	2.35234	14.956
2 Chloromethane	0.67602	0.64687	0.61417	0.52319	0.50622	0.59330	12.682
3 Dichlorotetrafluoroethane	2.96272	2.57613	2.41371	2.02840	1.95928	2.38805	17.259
4 Vinyl Chloride	0.68450	0.69216	0.67015	0.58497	0.55996	0.63835	9.603
5 Bromomethane	0.93001	0.92929	0.81287	0.71634	0.72603	0.82291	12.691
6 Chloroethane	0.42855	0.43751	0.39748	0.33859	0.36433	0.39329	10.672
7 Trichlorofluoromethane	2.51971	2.47777	2.22203	2.04239	1.93546	2.23947	11.534
8 1,1-Dichloroethene	0.92542	0.87980	0.79211	0.70112	0.68838	0.79737	13.208
9 Methylene Chloride	1.44608	0.96687	0.90655	0.77280	0.76230	0.97092	28.798
10 Freon TF	2.13207	1.95915	1.82171	1.61514	1.56548	1.81871	12.997
11 1,1-Dichloroethane	1.70406	1.69577	1.49474	1.29141	1.26042	1.48928	14.257
12 cis-1,2-Dichloroethene	1.19167	1.24773	1.10154	1.06404	0.95034	1.11106	10.390
14 Chloroform	2.26467	2.16705	1.95206	1.81495	1.64163	1.96807	12.900
15 1,2-Dichloroethane	1.48176	1.42676	1.28600	1.23977	1.17500	1.32186	9.729
16 1,1,1-Trichloroethane	2.10013	2.09067	1.80070	1.75038	1.60913	1.87020	11.617
17 Benzene	0.69814	0.61048	0.55149	0.51394	0.48013	0.57084	15.074
18 Carbon Tetrachloride	0.49086	0.44478	0.42748	0.38129	0.35987	0.42086	12.348
20 1,2-Dichloropropane	0.25479	0.23097	0.20962	0.19367	0.18081	0.21397	13.797
21 Trichloroethene	0.33068	0.30142	0.27349	0.24904	0.23210	0.27735	14.294
22 cis-1,3-Dichloropropene	0.24595	0.25346	0.25751	0.25597	0.26322	0.25522	2.469
23 trans-1,3-Dichloropropene	0.17248	0.18226	0.16648	0.18894	0.19418	0.18087	6.314
24 1,1,2-Trichloroethane	0.26384	0.24834	0.22719	0.20590	0.19256	0.22757	12.891
25 Toluene	0.42147	0.44197	0.40421	0.36129	0.35403	0.39660	9.597
26 1,2-Dibromoethane	0.34854	0.34990	0.33610	0.30516	0.30318	0.32857	6.978
27 Tetrachloroethene	0.35849	0.34167	0.30877	0.27931	0.27217	0.31208	12.105
29 Chlorobenzene	0.66041	0.56197	0.52136	0.46191	0.44486	0.53010	16.334

STL Burlington

INITIAL CALIBRATION DATA

Start Cal Date : 18-DEC-2000 10:04
End Cal Date : 18-DEC-2000 13:44
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/W.i/Wsvr.p/wceto14.b/ato14.m
Cal Date : 26-Dec-2000 14:40 mim
Curve Type : Average

	Compound	0.50000 Level 1	5.000 Level 2	10.000 Level 3	20.000 Level 4	40.000 Level 5	___ RRF	% RSD	
	30 Ethylbenzene	1.00334	1.01464	0.93787	0.81869	0.78796	0.91250	11.447	
	31 Xylene (m,p)	0.36765	0.34686	0.33420	0.29813	0.30237	0.32984	8.965	
	32 Styrene	0.36313	0.24312	0.33430	0.36048	0.34288	0.32878	15.018	
M	33 Xylene (total)	1.09735	1.03106	0.99230	0.88901	0.90183	0.98231	8.947	
	34 1,1,2,2-Tetrachloroethane	0.66080	0.54170	0.51274	0.45869	0.45109	0.52500	16.143	
	35 Xylene (o)	0.36206	0.33733	0.32391	0.29274	0.29708	0.32262	8.928	
	36 1,3,5-Trimethylbenzene	0.68412	0.67375	0.66852	0.62174	0.63337	0.65630	4.136	
	37 1,2,4-Trimethylbenzene	0.64061	0.58943	0.60366	0.58287	0.60942	0.60520	3.714	
	38 1,3-Dichlorobenzene	0.47818	0.42455	0.39769	0.39760	0.43363	0.42633	7.771	
	39 1,4-Dichlorobenzene	0.55761	0.37402	0.40780	0.40487	0.43333	0.43553	16.397	
	40 1,2-Dichlorobenzene	0.39454	0.30579	0.31949	0.32954	0.36609	0.34309	10.617	
	41 1,2,4-Trichlorobenzene	0.04105	0.03426	0.03430	0.04413	0.08067	0.04688	41.312	<-
	42 Hexachlorobutadiene	0.11840	0.06655	0.06744	0.06458	0.09282	0.08196	28.590	

FORM 7
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 81391

Instrument ID: W Calibration Date: 01/24/01 Time: 0806

Lab File ID: CE010I Init. Calib. Date(s): 12/18/00 12/18/00

Heated Purge: (Y/N) N Init. Calib. Times: 1004 1344

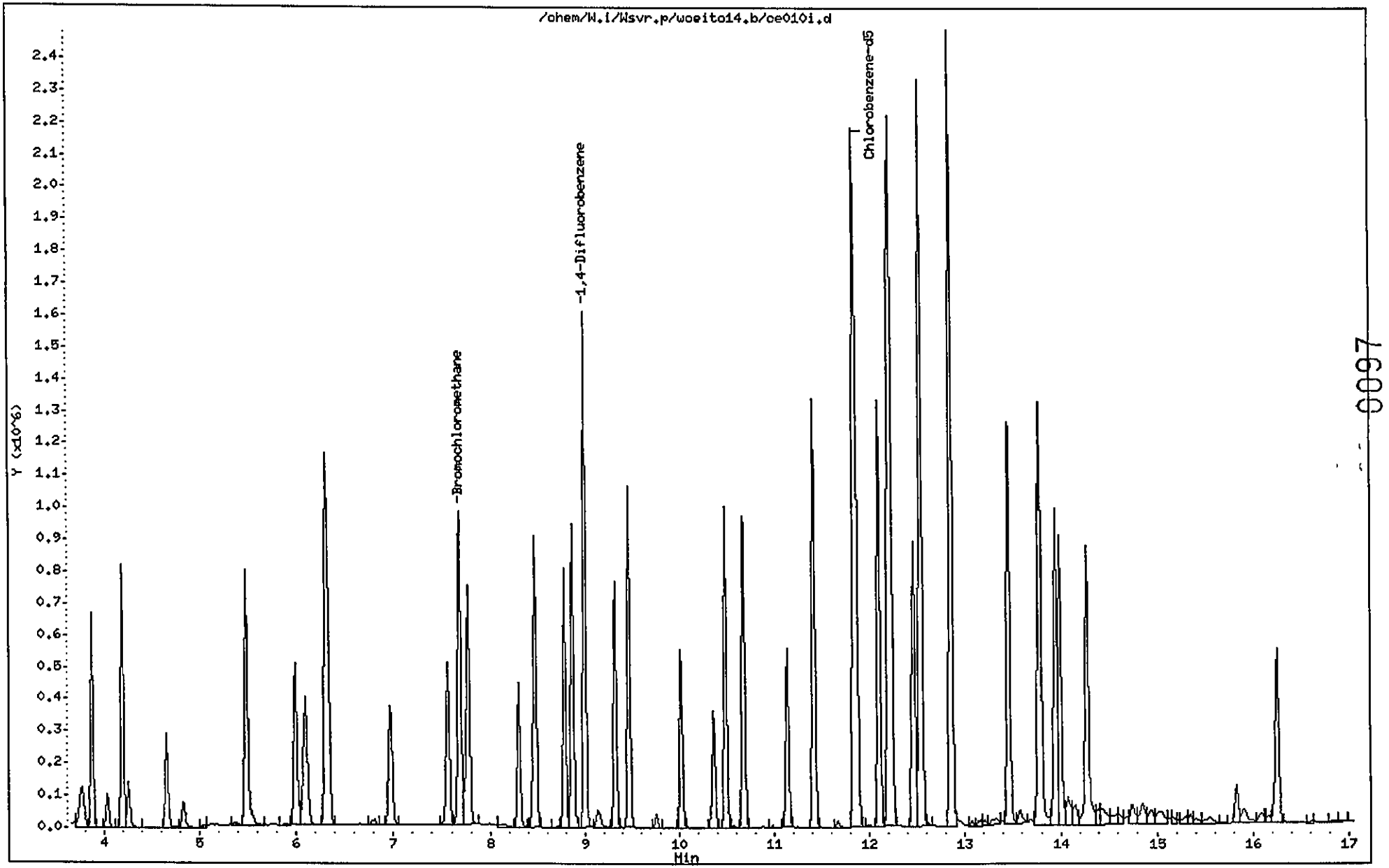
GC Column: DB-1 ID: 0.35 (mm)

COMPOUND	$\overline{RRF}$	RRF10	MIN RRF	%D	MAX %D	
Chloromethane	0.593	0.370	0.1	37.6	30.0	<-
Vinyl Chloride	0.638	0.432	0.01	32.3	30.0	<-
Bromomethane	0.823	0.627	0.01	23.8	30.0	
Chloroethane	0.393	0.288	0.01	26.7	30.0	
Trichlorofluoromethane	2.239	2.371	0.01	5.9	30.0	
Methylene Chloride	0.971	0.864	0.01	11.0	30.0	
1,1-Dichloroethane	1.489	1.473	0.1	1.1	30.0	
cis-1,2-Dichloroethene	1.111	1.111	0.01	0.0	30.0	
Chloroform	1.968	2.082	0.01	5.8	30.0	
1,1,1-Trichloroethane	1.870	1.758	0.01	6.0	30.0	
Carbon Tetrachloride	0.421	0.474	0.01	12.6	30.0	
Benzene	0.571	0.561	0.01	1.8	30.0	
1,2-Dichloroethane	1.322	1.284	0.01	2.9	30.0	
Trichloroethene	0.277	0.284	0.01	2.5	30.0	
1,2-Dichloropropane	0.214	0.222	0.01	3.7	30.0	
cis-1,3-Dichloropropene	0.255	0.286	0.01	12.2	30.0	
Toluene	0.396	0.394	0.01	0.5	30.0	
trans-1,3-Dichloropropene	0.181	0.193	0.01	6.6	30.0	
1,1,2-Trichloroethane	0.227	0.232	0.01	2.2	30.0	
Tetrachloroethene	0.312	0.304	0.01	2.6	30.0	
Chlorobenzene	0.530	0.498	0.3	6.0	30.0	
Ethylbenzene	0.913	0.924	0.01	1.2	30.0	
Xylene (total)	0.982	0.977	0.01	0.5	30.0	
Styrene	0.329	0.389	0.01	18.2	30.0	
Xylene (m,p)	0.330	0.326	0.01	1.2	30.0	
Xylene (o)	0.323	0.325	0.01	0.6	30.0	
1,1,2,2-Tetrachloroethane	0.525	0.544	0.01	3.6	30.0	
1,3-Dichlorobenzene	0.426	0.426	0.01	0.0	30.0	
1,4-Dichlorobenzene	0.436	0.375	0.01	14.0	30.0	
1,2-Dichlorobenzene	0.343	0.336	0.01	2.0	30.0	

Data File: /chem/W.i/Wsvr.p/woeito14.b/ce010i.d
Date : 24-JAN-2001 08:06
Client ID: ASTD010
Sample Info: ASTD010:ASTD010
Purge Volume: 200.0
Column phase: DB-1

Instrument: W.i

Operator: GMM
Column diameter: 0.35



0097

STL Burlington

AIR TOXICS QUANTITATION REPORT

Data file : /chem/W.i/Wsvr.p/wceito14.b/ce010i.d
Lab Smp Id: ASTD010 Client Smp ID: ASTD010
Inj Date : 24-JAN-2001 08:06
Operator : GMM Inst ID: W.i
Smp Info : ASTD010;ASTD010
Misc Info :
Comment :
Method : /chem/W.i/Wsvr.p/wceito14.b/ato14.m
Meth Date : 29-Jan-2001 09:45 mim Quant Type: ISTD
Cal Date : 18-DEC-2000 13:44 Cal File: ce010i2.d
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ACCANA2.sub
Target Version: 3.50
Processing Host: chemsvr4

Concentration Formula: Amt * DF * X* Uf/Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
X	200.00000	method volume factor
Uf	1.00000	ng unit correction factor
Vo	200.00000	Sample Volume purged (mL)

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	AMOUNTS ON-COL (ppbv)
	2 Chloromethane	50	4.033	3.955	(0.524)	117311	10.0000	6.2
	4 Vinyl Chloride	62	4.263	4.171	(0.554)	137226	10.0000	6.8
	5 Bromomethane	94	4.652	4.546	(0.604)	199085	10.0000	7.6
	6 Chloroethane	64	4.825	4.719	(0.627)	91472	10.0000	7.3
	7 Trichlorofluoromethane	101	5.482	5.375	(0.712)	752571	10.0000	10
	9 Methylene Chloride	49	6.089	5.982	(0.791)	274332	10.0000	8.9
	11 1,1-Dichloroethane	63	6.969	6.892	(0.905)	467588	10.0000	9.9
	12 cis-1,2-Dichloroethene	61	7.561	7.484	(0.982)	352511	10.0000	10
*	13 Bromochloromethane	128	7.697	7.621	(1.000)	317398	10.0000	
	14 Chloroform	83	7.773	7.697	(1.010)	660991	10.0000	10
	15 1,2-Dichloroethane	62	8.304	8.243	(1.079)	407587	10.0000	9.7
	16 1,1,1-Trichloroethane	97	8.471	8.425	(1.101)	558051	10.0000	9.4
	17 Benzene	78	8.790	8.744	(0.976)	674375	10.0000	9.8
	18 Carbon Tetrachloride	117	8.881	8.835	(0.986)	570596	10.0000	11

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	AMOUNTS ON-COL (ppbv)
*	19 1,4-Difluorobenzene	114	9.003	8.956	(1.000)	1202471	10.0000	
	20 1,2-Dichloropropane	63	9.336	9.290	(1.037)	267419	10.0000	10
	21 Trichloroethene	95	9.473	9.442	(1.052)	341645	10.0000	10
	22 cis-1,3-Dichloropropene	75	10.019	10.003	(1.113)	343842	10.0000	11
	23 trans-1,3-Dichloropropene	75	10.353	10.337	(1.150)	231678	10.0000	11
	24 1,1,2-Trichloroethane	83	10.490	10.474	(1.165)	278870	10.0000	10
	25 Toluene	92	10.687	10.656	(0.903)	520420	10.0000	9.9
	27 Tetrachloroethene	166	11.431	11.415	(0.965)	401548	10.0000	9.7
*	28 Chlorobenzene-d5	117	11.840	11.840	(1.000)	1322268	10.0000	
	29 Chlorobenzene	112	11.871	11.870	(1.003)	658751	10.0000	9.4
	30 Ethylbenzene	91	12.098	12.098	(1.022)	1222395	10.0000	10
	31 Xylene (m,p)	106	12.220	12.219	(1.032)	861817	20.0000	20
	32 Styrene	104	12.463	12.462	(1.053)	514859	10.0000	12
M	33 Xylene (total)	106				1292182	10.0000	30
	34 1,1,2,2-Tetrachloroethane	83	12.538	12.523	(1.059)	720047	10.0000	10
	35 Xylene (o)	106	12.538	12.538	(1.059)	430365	10.0000	10
	38 1,3-Dichlorobenzene	146	13.935	13.934	(1.177)	563206	10.0000	10
	39 1,4-Dichlorobenzene	146	13.980	13.995	(1.181)	496145	10.0000	8.6
	40 1,2-Dichlorobenzene	146	14.268	14.283	(1.205)	444203	10.0000	9.8

STL Burlington

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: W.i
Lab File ID: ce010i.d
Analysis Type: AIR
Lab Sample ID: ASTD010
Method: /chem/W.i/Wsvr.p/wceito14.b/ato14.m

Injection Date: 24-JAN-2001 08:06
Init. Cal. Date(s): 18-DEC-2000 18-DEC-2000
Init. Cal. Times: 10:04 13:44
Quant Type: ISTD

	COMPOUND	RRF / AMOUNT	RF10	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	
	2 Chloromethane	0.59330	0.36960	0.100	37.70358	30.00000	Averaged	<-
	4 Vinyl Chloride	0.63835	0.43235	0.010	32.27105	30.00000	Averaged	<-
	5 Bromomethane	0.82291	0.62724	0.010	23.77735	30.00000	Averaged	
	6 Chloroethane	0.39329	0.28819	0.010	26.72251	30.00000	Averaged	
	7 Trichlorofluoromethane	2.23947	2.37106	0.010	-5.87594	30.00000	Averaged	
	9 Methylene Chloride	0.97092	0.86432	0.010	10.97967	30.00000	Averaged	
	11 1,1-Dichloroethane	1.48928	1.47319	0.100	1.08027	30.00000	Averaged	
	12 cis-1,2-Dichloroethene	1.11106	1.11063	0.010	0.03935	30.00000	Averaged	
	14 Chloroform	1.96807	2.08253	0.010	-5.81584	30.00000	Averaged	
	15 1,2-Dichloroethane	1.32186	1.28415	0.010	2.85262	30.00000	Averaged	
	16 1,1,1-Trichloroethane	1.87020	1.75821	0.010	5.98839	30.00000	Averaged	
	17 Benzene	0.57084	0.56082	0.010	1.75413	30.00000	Averaged	
	18 Carbon Tetrachloride	0.42086	0.47452	0.010	-12.75089	30.00000	Averaged	
	20 1,2-Dichloropropane	0.21397	0.22239	0.010	-3.93490	30.00000	Averaged	
	21 Trichloroethene	0.27735	0.28412	0.010	-2.44162	30.00000	Averaged	
	22 cis-1,3-Dichloropropene	0.25522	0.28595	0.010	-12.03846	30.00000	Averaged	
	23 trans-1,3-Dichloropropene	0.18087	0.19267	0.010	-6.52443	30.00000	Averaged	
	24 1,1,2-Trichloroethane	0.22757	0.23191	0.010	-1.91046	30.00000	Averaged	
	25 Toluene	0.39660	0.39358	0.010	0.76009	30.00000	Averaged	
	27 Tetrachloroethene	0.31208	0.30368	0.010	2.69192	30.00000	Averaged	
	29 Chlorobenzene	0.53010	0.49820	0.300	6.01837	30.00000	Averaged	
	30 Ethylbenzene	0.91250	0.92447	0.010	-1.31175	30.00000	Averaged	
	31 Xylene (m,p)	0.32984	0.32589	0.010	1.19995	30.00000	Averaged	
	32 Styrene	0.32878	0.38938	0.010	-18.42916	30.00000	Averaged	
M	33 Xylene (total)	0.98231	0.97725	0.010	0.51543	30.00000	Averaged	
	34 1,1,2,2-Tetrachloroethane	0.52500	0.54455	0.010	-3.72379	30.00000	Averaged	
	35 Xylene (o)	0.32262	0.32547	0.010	-0.88428	30.00000	Averaged	
	38 1,3-Dichlorobenzene	0.42633	0.42594	0.010	0.09219	30.00000	Averaged	
	39 1,4-Dichlorobenzene	0.43553	0.37522	0.010	13.84605	30.00000	Averaged	
	40 1,2-Dichlorobenzene	0.34309	0.33594	0.010	2.08370	30.00000	Averaged	

SEVERN TRENT SERVICES

Severn Trent Laboratories, Inc.

METHOD TO-14A
VOLATILE ORGANIC ANALYSIS

RAW QC DATA

Data File: /chem/W.i/Wsvr.p/wceto14.b/ce001p.d

Date : 18-DEC-2000 08:05

Client ID: WBFB001

Instrument: W.i

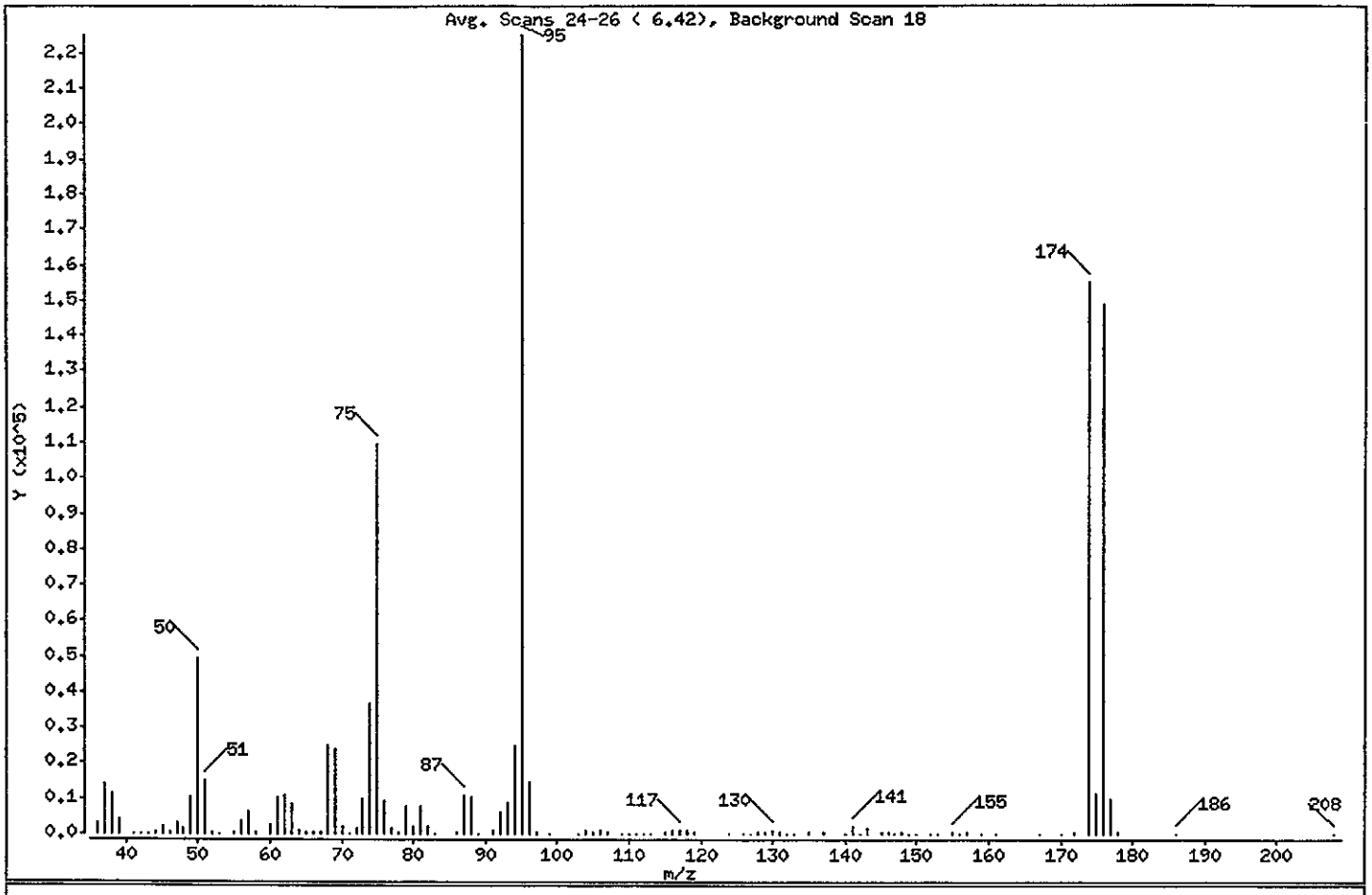
Sample Info: WBFB001

Operator: GMM

Column phase: DB-1

Column diameter: 0.32

* 1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	8.00 - 40.00% of mass 95	21.79
75	30.00 - 66.00% of mass 95	48.61
96	5.00 - 9.00% of mass 95	6.36
173	Less than 2.00% of mass 174	0.00 (0.00)
174	50.00 - 120.00% of mass 95	68.86
175	4.00 - 9.00% of mass 174	5.04 (7.32)
176	93.00 - 101.00% of mass 174	66.24 (96.20)
177	5.00 - 9.00% of mass 176	4.37 (6.59)

Date : 18-DEC-2000 08:05

Client ID: WBFB001 Instrument: W.i

Sample Info: WBFB001

Operator: GMM

Column phase: DB-1 Column diameter: 0.32

Data File: ce001p.d

Spectrum: Avg. Scans 24-26 (6.42), Background Scan 18

Location of Maximum: 95.00

Number of points: 110

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	2910	67.00	467	99.00	61	141.00	1879
37.00	13908	68.00	24824	103.00	213	142.00	233
38.00	11543	69.00	24000	104.00	922	143.00	1744
39.00	4393	70.00	1985	105.00	477	145.00	270
41.00	19	71.00	58	106.00	1041	146.00	374
42.00	23	72.00	1387	107.00	347	147.00	146
43.00	128	73.00	9701	109.00	117	148.00	339
44.00	575	74.00	36752	110.00	170	149.00	164
45.00	2314	75.00	109456	111.00	169	150.00	186
46.00	288	76.00	9129	112.00	51	152.00	147
47.00	3115	77.00	1332	113.00	127	153.00	59
48.00	1547	78.00	706	115.00	363	155.00	429
49.00	10543	79.00	8023	116.00	795	156.00	50
50.00	49064	80.00	2151	117.00	1125	157.00	311
51.00	15141	81.00	7941	118.00	809	159.00	147
52.00	397	82.00	1817	119.00	705	161.00	205
53.00	26	83.00	11	124.00	52	167.00	197
55.00	500	86.00	289	126.00	118	170.00	57
56.00	3604	87.00	10899	127.00	56	172.00	704
57.00	6303	88.00	10210	128.00	726	174.00	155008
58.00	279	89.00	63	129.00	529	175.00	11355
60.00	2433	91.00	886	130.00	988	176.00	149120
61.00	10471	92.00	6033	131.00	406	177.00	9829
62.00	10783	93.00	8855	132.00	57	178.00	282
63.00	8274	94.00	25088	133.00	64	186.00	65
64.00	815	95.00	225152	135.00	313	208.00	51
65.00	540	96.00	14324	137.00	339		
66.00	299	97.00	558	140.00	131		

Data File: /chem/W.i/Wsvr.p/wceto14.b/ce001p.d

Date : 18-DEC-2000 08:05

Client ID: WBFB001

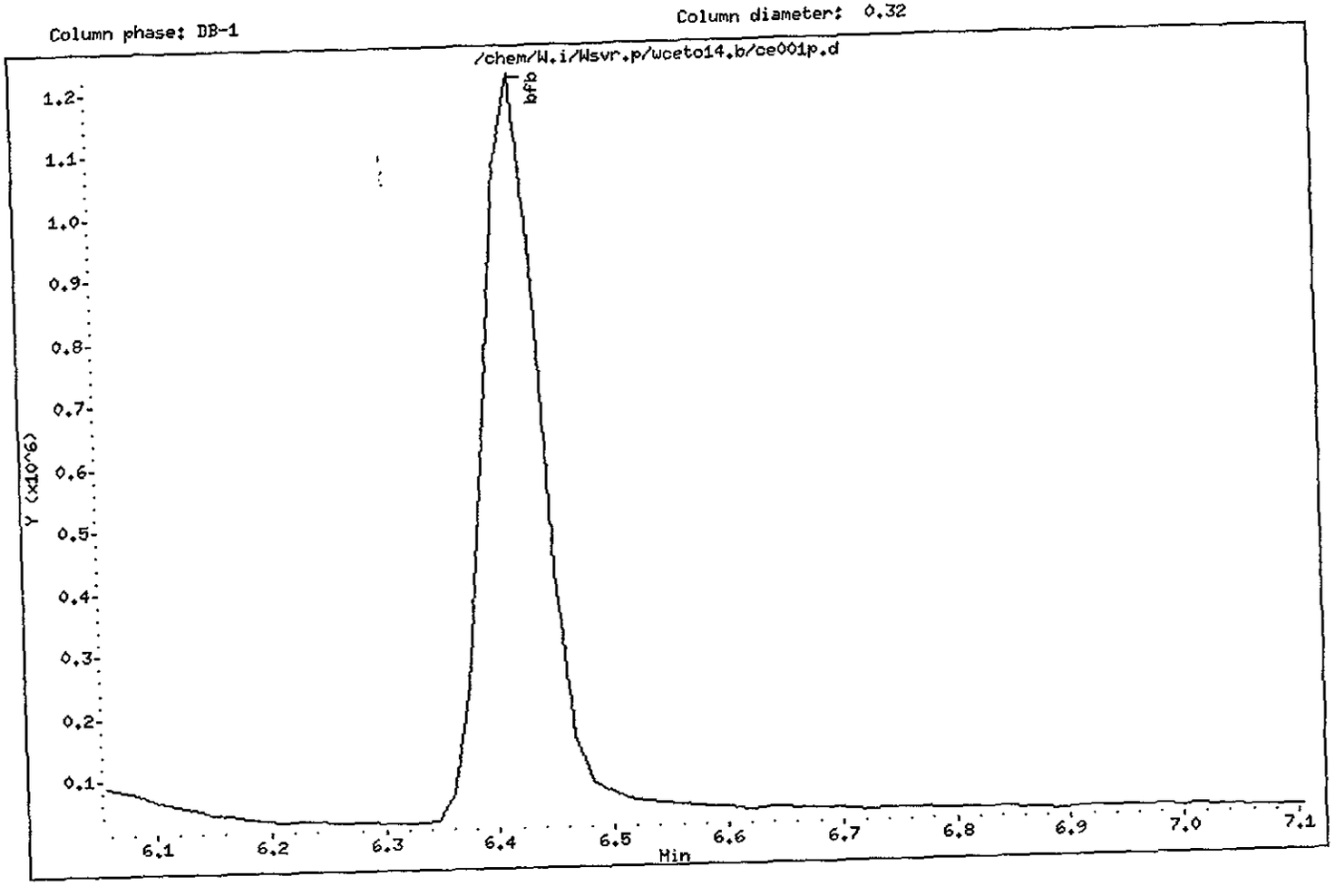
Sample Info: WBFB001

Instrument: W.i

Operator: GMM

Column diameter: 0.32

Column phase: DB-1



Data File: /chem/W.i/Wsvr.p/wceito14.b/ce010p.d

Date : 24-JAN-2001 07:24

Client ID: WBFB010

Instrument: W.i

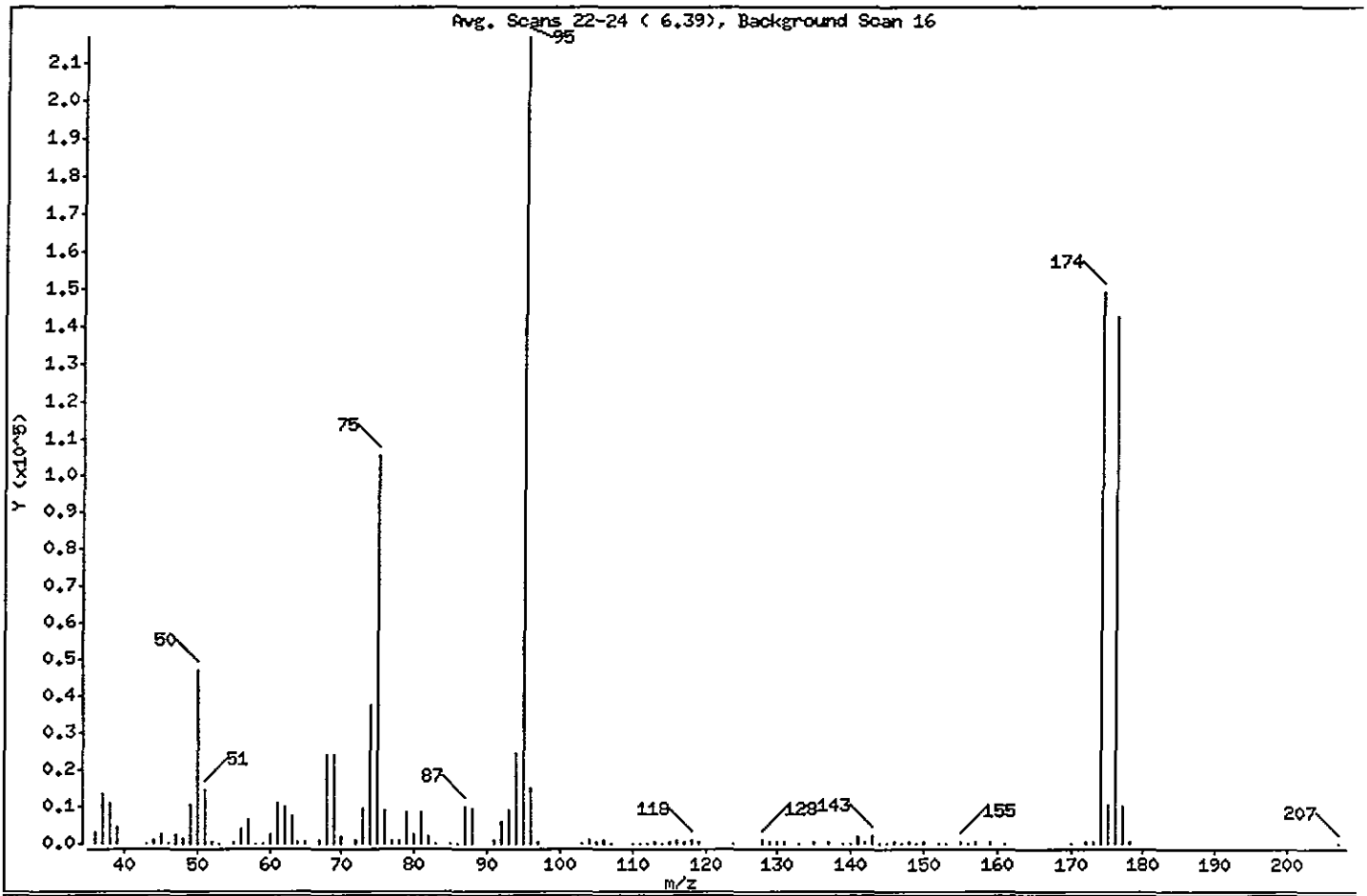
Sample Info: WBFB010

Operator: GMM

Column phase: DB-1

Column diameter: 0.32

$ 1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	8.00 - 40.00% of mass 95	21.68
75	30.00 - 66.00% of mass 95	48.59
96	5.00 - 9.00% of mass 95	6.83
173	Less than 2.00% of mass 174	0.14 (0.21)
174	50.00 - 120.00% of mass 95	68.60
175	4.00 - 9.00% of mass 174	4.86 (7.08)
176	93.00 - 101.00% of mass 174	65.67 (95.72)
177	5.00 - 9.00% of mass 176	4.65 (7.08)

Data File: /chem/W.i/Wsvr.p/wceito14.b/ce010p.d

Date : 24-JAN-2001 07:24

Client ID: WBFB010 Instrument: W.i

Sample Info: WBFB010

Operator: GMM

Column phase: DB-1 Column diameter: 0.32

Data File: ce010p.d
Spectrum: Avg. Scans 22-24 (6.39), Background Scan 16
Location of Maximum: 95.00
Number of points: 104

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	2751	68.00	23896	104.00	1138	144.00	113
37.00	13433	69.00	23840	105.00	465	145.00	200
38.00	10854	70.00	1827	106.00	946	146.00	316
39.00	4633	72.00	1195	107.00	246	147.00	65
43.00	208	73.00	9633	110.00	128	148.00	423
44.00	1080	74.00	37416	111.00	108	149.00	140
45.00	2554	75.00	105416	112.00	182	150.00	256
46.00	30	76.00	8840	113.00	256	152.00	73
47.00	2705	77.00	1198	114.00	113	153.00	85
48.00	1585	78.00	883	115.00	290	155.00	362
49.00	10474	79.00	8314	116.00	866	156.00	75
50.00	47032	80.00	2307	117.00	741	157.00	313
51.00	14516	81.00	8275	118.00	897	159.00	265
52.00	532	82.00	1758	119.00	706	161.00	201
53.00	83	83.00	117	124.00	57	170.00	56
55.00	360	85.00	48	128.00	880	172.00	485
56.00	4109	86.00	246	129.00	347	173.00	314
57.00	6675	87.00	9876	130.00	732	174.00	148800
58.00	114	88.00	9269	131.00	364	175.00	10540
59.00	100	91.00	928	133.00	53	176.00	142400
60.00	2259	92.00	5881	135.00	396	177.00	10091
61.00	10805	93.00	9040	137.00	313	178.00	327
62.00	10063	94.00	24680	139.00	51	207.00	151
63.00	7639	95.00	216896	140.00	62		
64.00	667	96.00	14816	141.00	1841		
65.00	541	97.00	549	142.00	267		
67.00	760	103.00	117	143.00	2061		

Data File: /chem/W.i/Wsvr.p/wceito14.b/ce010p.d

Date : 24-JAN-2001 07:24

Client ID: WBFB010

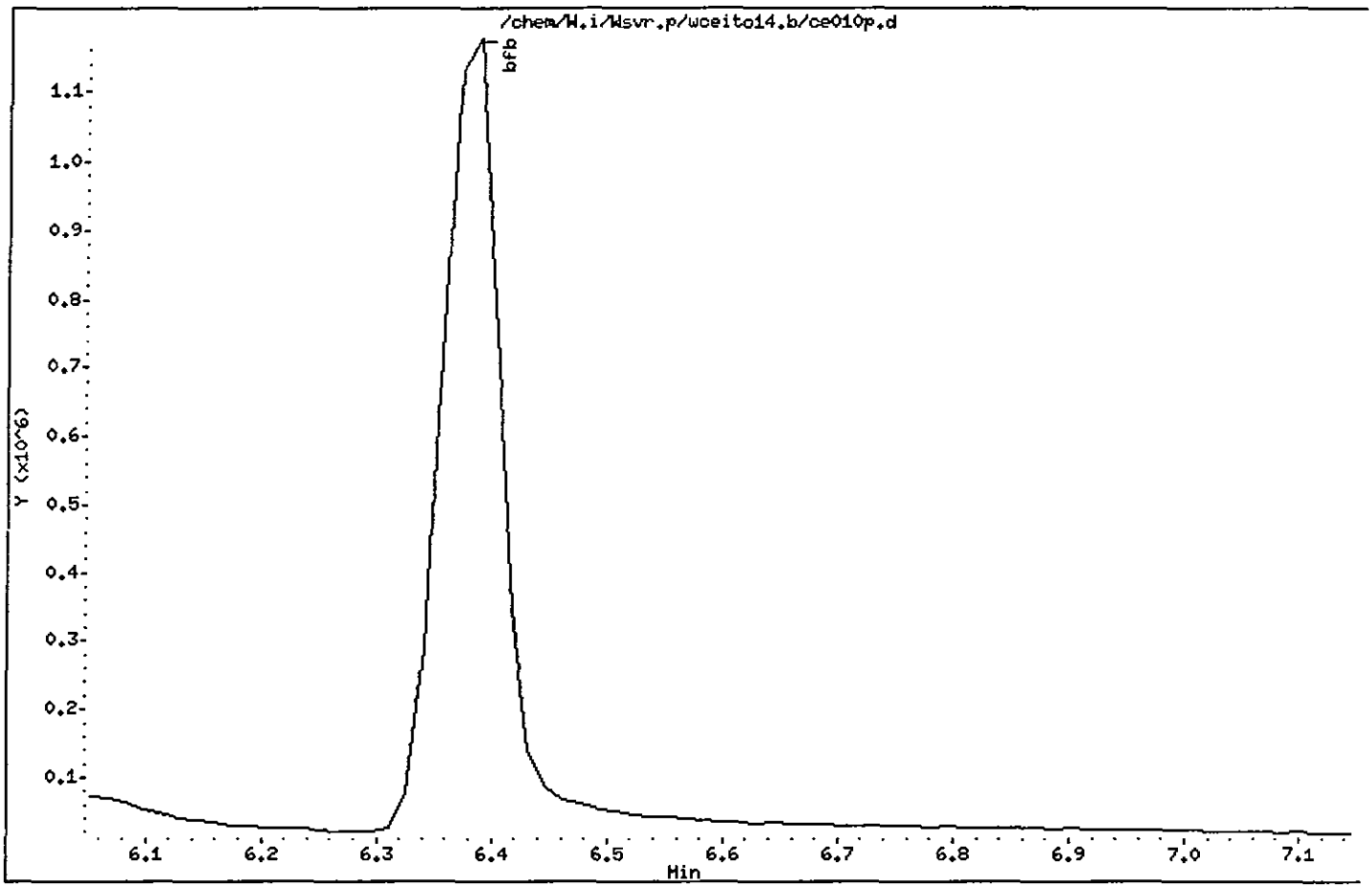
Instrument: W.i

Sample Info: WBFB010

Operator: GMM

Column phase: DB-1

Column diameter: 0.32



FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ABLKO9

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 81391

Matrix: (soil/water) AIR Lab Sample ID: ABLKO9

Sample wt/vol: 200 (g/mL) ML Lab File ID: CEB001I

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

% Moisture: not dec. _____ Date Analyzed: 01/24/01

GC Column: DB-1 ID: 0.35 (mm) Dilution Factor: 1.0

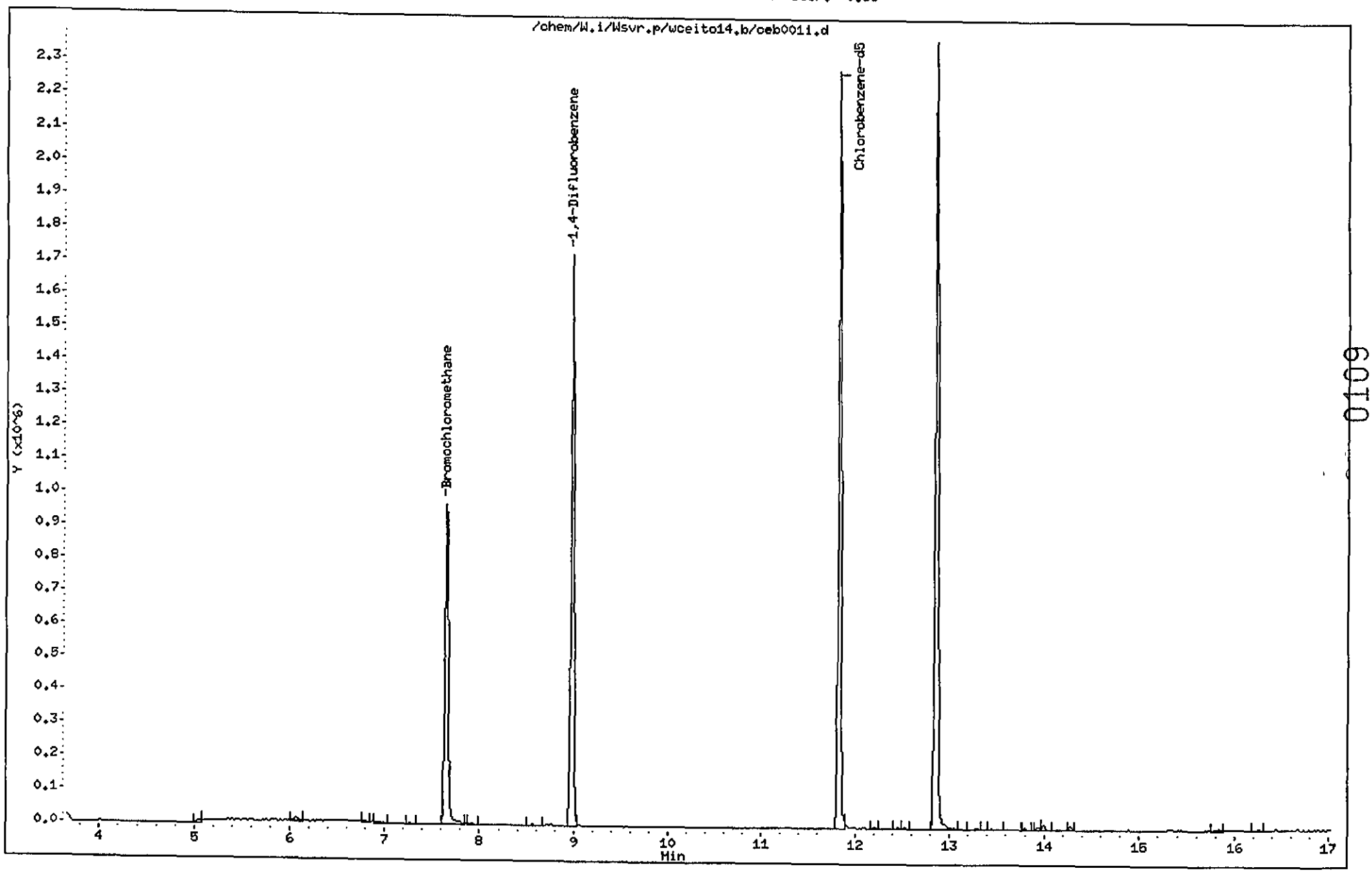
Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) PPBV	Q
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl Chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-09-2	Methylene Chloride	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
56-23-5	Carbon Tetrachloride	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-88-3	Toluene	0.50	U
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
1330-20-7	Xylene (total)	0.50	U
100-42-5	Styrene	0.50	U
1330-20-7	Xylene (m,p)	0.50	U
95-47-6	Xylene (o)	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U

Data File: /chem/W.i/Wsvr.p/wceito14.b/ceb0011.d
Date : 24-JAN-2001 09:10
Client ID: ABLK09
Sample Info: ABLK09;ABLK09;;012409
Purge Volume: 1000.0
Column phase: DB-1

Instrument: W.i

Operator: GHM
Column diameter: 0.35



0109

STL Burlington

AIR TOXICS QUANTITATION REPORT

Data file : /chem/W.i/Wsvr.p/wceito14.b/ceb001i.d
Lab Smp Id: ABLKO9 Client Smp ID: ABLKO9
Inj Date : 24-JAN-2001 09:10
Operator : GMM Inst ID: W.i
Smp Info : ABLKO9;ABLKO9;;012409
Misc Info :
Comment :
Method : /chem/W.i/Wsvr.p/wceito14.b/ato14.m
Meth Date : 29-Jan-2001 09:45 mim Quant Type: ISTD
Cal Date : 18-DEC-2000 13:44 Cal File: ce010i2.d
Als bottle: 1 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ACCANA2.sub
Target Version: 3.50
Processing Host: chemsvr4

Concentration Formula: Amt * DF * X* Uf/Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
X	200.00000	method volume factor
Uf	1.00000	ng unit correction factor
Vo	200.00000	Sample Volume purged (mL)

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)	
2	Chloromethane	50	Compound Not Detected.						
4	Vinyl Chloride	62	Compound Not Detected.						
5	Bromomethane	94	Compound Not Detected.						
6	Chloroethane	64	Compound Not Detected.						
7	Trichlorofluoromethane	101	Compound Not Detected.						
9	Methylene Chloride	49	Compound Not Detected.						
11	1,1-Dichloroethane	63	Compound Not Detected.						
12	cis-1,2-Dichloroethene	61	Compound Not Detected.						
* 13	Bromochloromethane	128	7.652	7.621	(1.000)	324614	10.0000		(Q)
14	Chloroform	83	Compound Not Detected.						
15	1,2-Dichloroethane	62	Compound Not Detected.						
16	1,1,1-Trichloroethane	97	Compound Not Detected.						
17	Benzene	78	Compound Not Detected.						
18	Carbon Tetrachloride	117	Compound Not Detected.						

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	FINAL (ppbv)
*	19 1,4-Difluorobenzene	114	8.972	8.956	(1.000)	1504656	10.0000	
	20 1,2-Dichloropropane	63	Compound Not Detected.					
	21 Trichloroethene	95	Compound Not Detected.					
	22 cis-1,3-Dichloropropene	75	Compound Not Detected.					
	23 trans-1,3-Dichloropropene	75	Compound Not Detected.					
	24 1,1,2-Trichloroethane	83	Compound Not Detected.					
	25 Toluene	92	Compound Not Detected.					
	27 Tetrachloroethene	166	Compound Not Detected.					
*	28 Chlorobenzene-d5	117	11.825	11.840	(1.000)	1537888	10.0000	
	29 Chlorobenzene	112	Compound Not Detected.					
	30 Ethylbenzene	91	Compound Not Detected.					
	31 Xylene (m,p)	106	Compound Not Detected.					
	32 Styrene	104	Compound Not Detected.					
M	33 Xylene (total)	106	Compound Not Detected.					
	34 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					
	35 Xylene (o)	106	Compound Not Detected.					
	38 1,3-Dichlorobenzene	146	Compound Not Detected.					
	39 1,4-Dichlorobenzene	146	Compound Not Detected.					
	40 1,2-Dichlorobenzene	146	Compound Not Detected.					

QC Flag Legend

Q - Qualifier signal failed the ratio test.

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

STLVT SAMPLE NO.

L4_ICVLCS

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 81391

Matrix: (soil/water) AIR Lab Sample ID: L4_ICVLCS

Sample wt/vol: 200 (g/mL) ML Lab File ID: CE010Q

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

% Moisture: not dec. _____ Date Analyzed: 12/18/00

GC Column: DB-1 ID: 0.35 (mm) Dilution Factor: 1.0

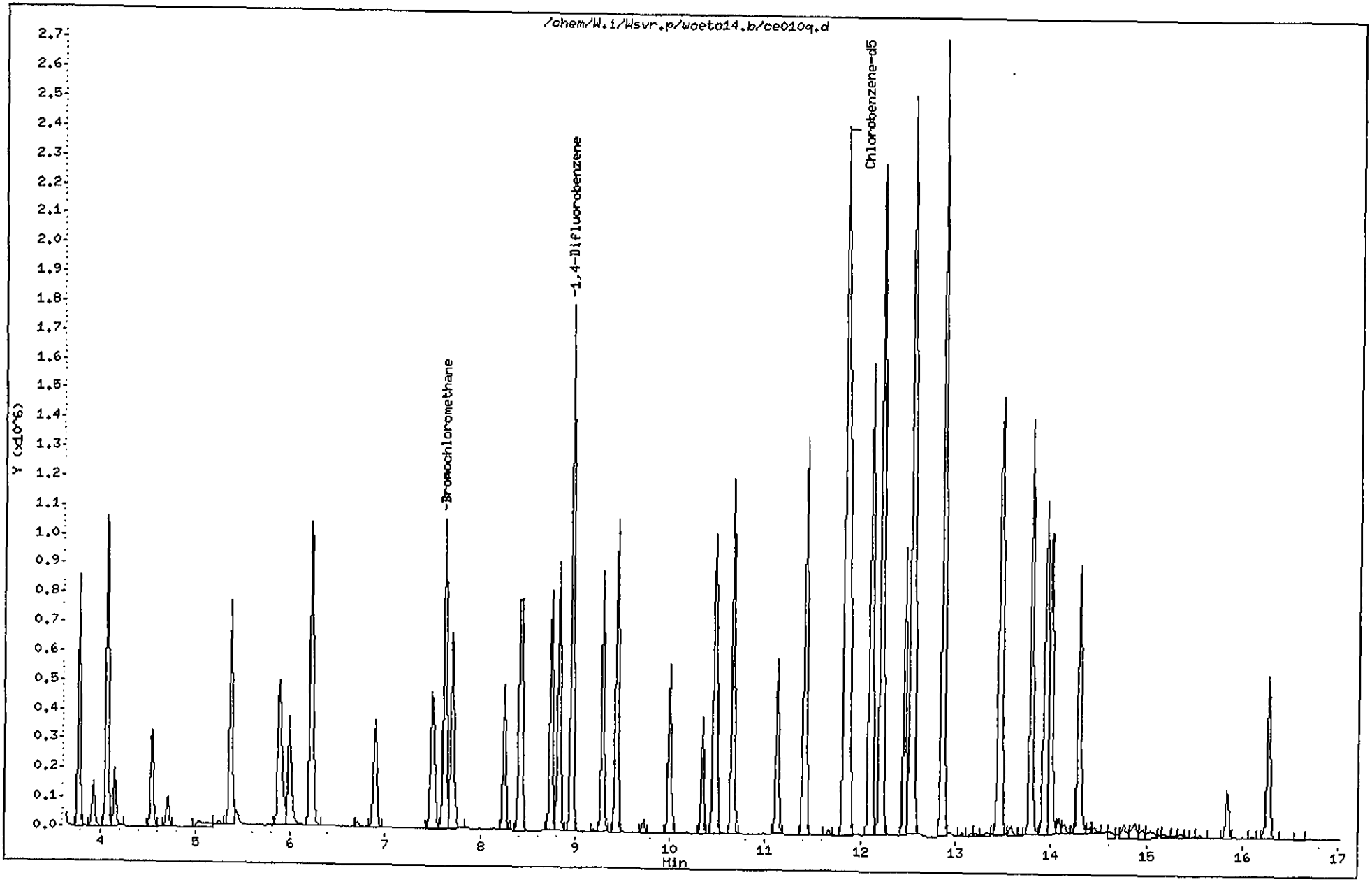
Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) PPBV	Q
74-87-3	Chloromethane	9.5	
75-01-4	Vinyl Chloride	9.5	
74-83-9	Bromomethane	9.1	
75-00-3	Chloroethane	9.0	
75-69-4	Trichlorofluoromethane	9.4	
75-09-2	Methylene Chloride	8.7	
75-34-3	1,1-Dichloroethane	9.4	
156-59-2	cis-1,2-Dichloroethene	9.4	
67-66-3	Chloroform	9.4	
71-55-6	1,1,1-Trichloroethane	9.1	
56-23-5	Carbon Tetrachloride	9.6	
71-43-2	Benzene	9.3	
107-06-2	1,2-Dichloroethane	9.7	
79-01-6	Trichloroethene	9.7	
78-87-5	1,2-Dichloropropane	9.5	
10061-01-5	cis-1,3-Dichloropropene	9.5	
108-88-3	Toluene	9.6	
10061-02-6	trans-1,3-Dichloropropene	8.6	
79-00-5	1,1,2-Trichloroethane	9.7	
127-18-4	Tetrachloroethene	9.2	
108-90-7	Chlorobenzene	9.3	
100-41-4	Ethylbenzene	9.6	
1330-20-7	Xylene (total)	29	
100-42-5	Styrene	11	
1330-20-7	Xylene (m,p)	19	
95-47-6	Xylene (o)	9.6	
79-34-5	1,1,2,2-Tetrachloroethane	9.9	
541-73-1	1,3-Dichlorobenzene	10	
106-46-7	1,4-Dichlorobenzene	10	
95-50-1	1,2-Dichlorobenzene	10	

Data File: /chem/W.i/Wsvr.p/woeto14.b/ce010q.d
Date : 18-DEC-2000 14:17
Client ID: L4_ICVLCS
Sample Info: L4_ICV;L4_ICVLCS
Purge Volume: 200.0
Column phase: DB-1

Instrument: W.i

Operator: GMM
Column diameter: 0.35



STL Burlington

AIR TOXICS QUANTITATION REPORT

Data file : /chem/W.i/Wsvr.p/wceto14.b/ce010q.d
Lab Smp Id: L4_ICVLCS Client Smp ID: L4_ICVLCS
Inj Date : 18-DEC-2000 14:17
Operator : GMM Inst ID: W.i
Smp Info : L4_ICV;L4_ICVLCS
Misc Info :
Comment :
Method : /chem/W.i/Wsvr.p/wceto14.b/ato14.m
Meth Date : 26-Dec-2000 14:40 mim Quant Type: ISTD
Cal Date : 18-DEC-2000 13:44 Cal File: ce010i2.d
Als bottle: 1 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50
Processing Host: chemsvr4

Concentration Formula: Amt * DF * X* Uf/Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
X	200.00000	method volume factor
Uf	1.00000	ng unit correction factor
Vo	200.00000	Sample Volume purged (mL)

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	FINAL (ppbv)
	1 Dichlorodifluoromethane	85	3.780	3.797	(0.496)	746358	9.33348	9.3
	2 Chloromethane	50	3.939	3.955	(0.517)	191492	9.49458	9.5
	3 Dichlorotetrafluoroethane	85	4.069	4.085	(0.534)	747656	9.20991	9.2
	4 Vinyl Chloride	62	4.155	4.171	(0.545)	207034	9.54070	9.5
	5 Bromomethane	94	4.544	4.546	(0.596)	253870	9.07523	9.1
	6 Chloroethane	64	4.717	4.719	(0.619)	120784	9.03426	9.0(M)
	7 Trichlorofluoromethane	101	5.376	5.375	(0.705)	716553	9.41236	9.4(M)
	8 1,1-Dichloroethene	96	5.892	5.891	(0.773)	253482	9.35160	9.4
	9 Methylene Chloride	49	5.983	5.982	(0.785)	287208	8.70182	8.7
	10 Freon TF	101	6.211	6.210	(0.815)	585471	9.46975	9.5
	11 1,1-Dichloroethane	63	6.894	6.892	(0.904)	477215	9.42615	9.4
	12 cis-1,2-Dichloroethene	61	7.486	7.484	(0.982)	356603	9.44152	9.4
*	13 Bromochloromethane	128	7.622	7.621	(1.000)	339941	10.0000	(Q)
	14 Chloroform	83	7.698	7.697	(1.010)	630819	9.42889	9.4

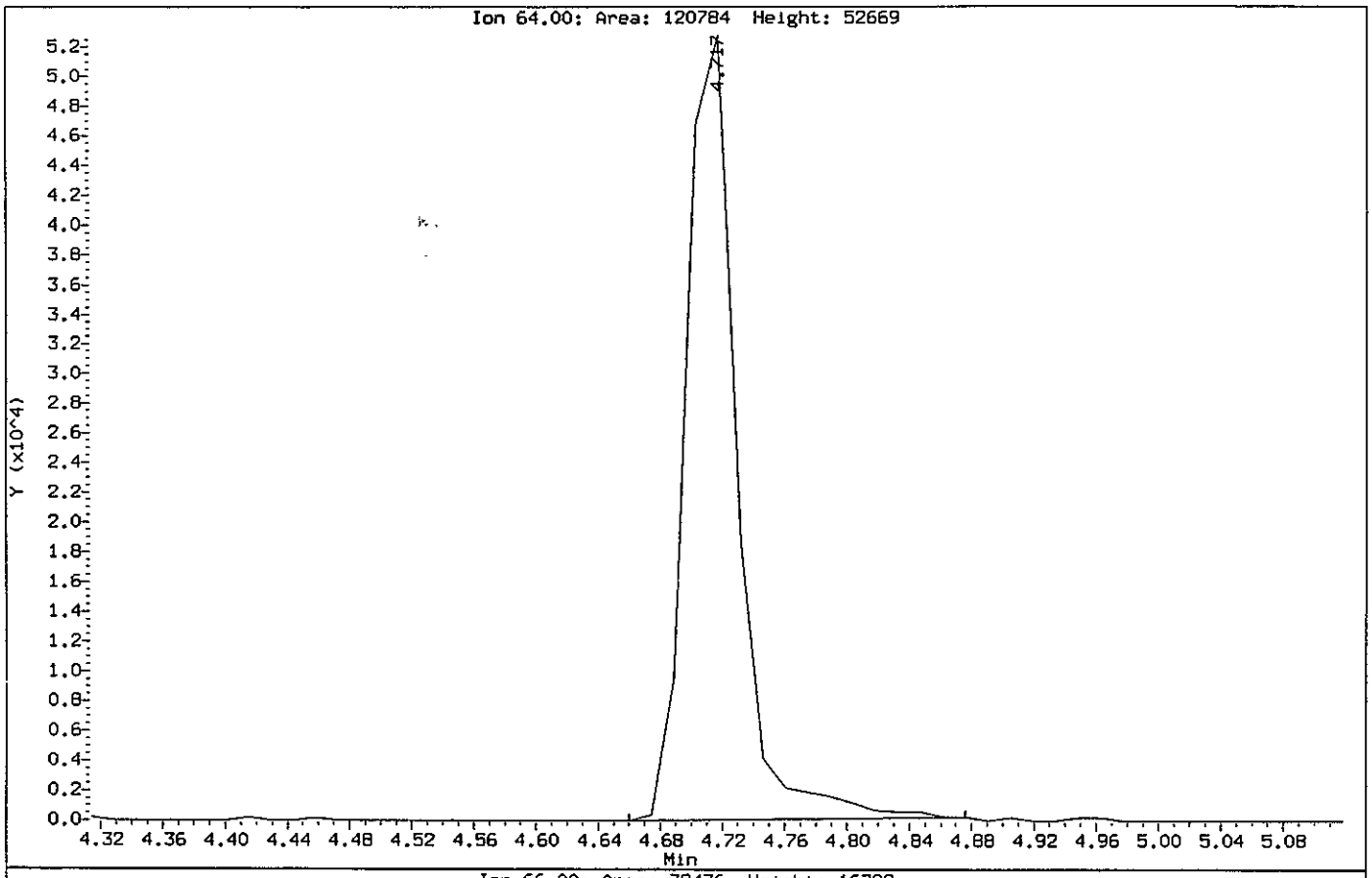
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	FINAL (ppbv)
	15 1,2-Dichloroethane	62	8.244	8.243	(1.082)	436880	9.72240	9.7
	16 1,1,1-Trichloroethane	97	8.426	8.425	(1.106)	579758	9.11916	9.1
	17 Benzene	78	8.745	8.744	(0.976)	764070	9.33408	9.3
	18 Carbon Tetrachloride	117	8.836	8.835	(0.986)	581541	9.63601	9.6
*	19 1,4-Difluorobenzene	114	8.958	8.956	(1.000)	1434000	10.0000	
	20 1,2-Dichloropropane	63	9.291	9.290	(1.037)	292281	9.52566	9.5
	21 Trichloroethene	95	9.443	9.442	(1.054)	384266	9.66182	9.7
	22 cis-1,3-Dichloropropene	75	10.005	10.003	(1.117)	348128	9.51202	9.5
	23 trans-1,3-Dichloropropene	75	10.339	10.337	(1.154)	224422	8.65277	8.6
	24 1,1,2-Trichloroethane	83	10.475	10.474	(1.169)	315316	9.66248	9.7
	25 Toluene	92	10.657	10.656	(0.900)	584045	9.59851	9.6
	26 1,2-Dibromoethane	107	11.128	11.126	(0.940)	488202	9.68437	9.7
	27 Tetrachloroethene	166	11.416	11.415	(0.964)	443018	9.25248	9.2
*	28 Chlorobenzene-d5	117	11.841	11.840	(1.000)	1534243	10.0000	
	29 Chlorobenzene	112	11.871	11.870	(1.003)	755097	9.28431	9.3
	30 Ethylbenzene	91	12.099	12.098	(1.022)	1350371	9.64554	9.6
	31 Xylene (m,p)	106	12.220	12.219	(1.032)	980171	19.3686	19
	32 Styrene	104	12.463	12.462	(1.053)	567917	11.2585	11
M	33 Xylene (total)	106				1457422	29.0105	29
	34 1,1,2,2-Tetrachloroethane	83	12.524	12.523	(1.058)	798442	9.91257	9.9
	35 Xylene (o)	106	12.539	12.538	(1.059)	477251	9.64181	9.6
	36 1,3,5-Trimethylbenzene	105	13.465	13.463	(1.137)	1044500	10.3732	10
	37 1,2,4-Trimethylbenzene	105	13.783	13.782	(1.164)	987639	10.6367	11
	38 1,3-Dichlorobenzene	146	13.935	13.934	(1.177)	663101	10.1376	10
	39 1,4-Dichlorobenzene	146	13.996	13.995	(1.182)	669222	10.0153	10
	40 1,2-Dichlorobenzene	146	14.284	14.283	(1.206)	533130	10.1282	10
	41 1,2,4-Trichlorobenzene	180	15.847	15.846	(1.338)	72465	10.0747	10
	42 Hexachlorobutadiene	225	16.257	16.271	(1.373)	127872	10.1693	10

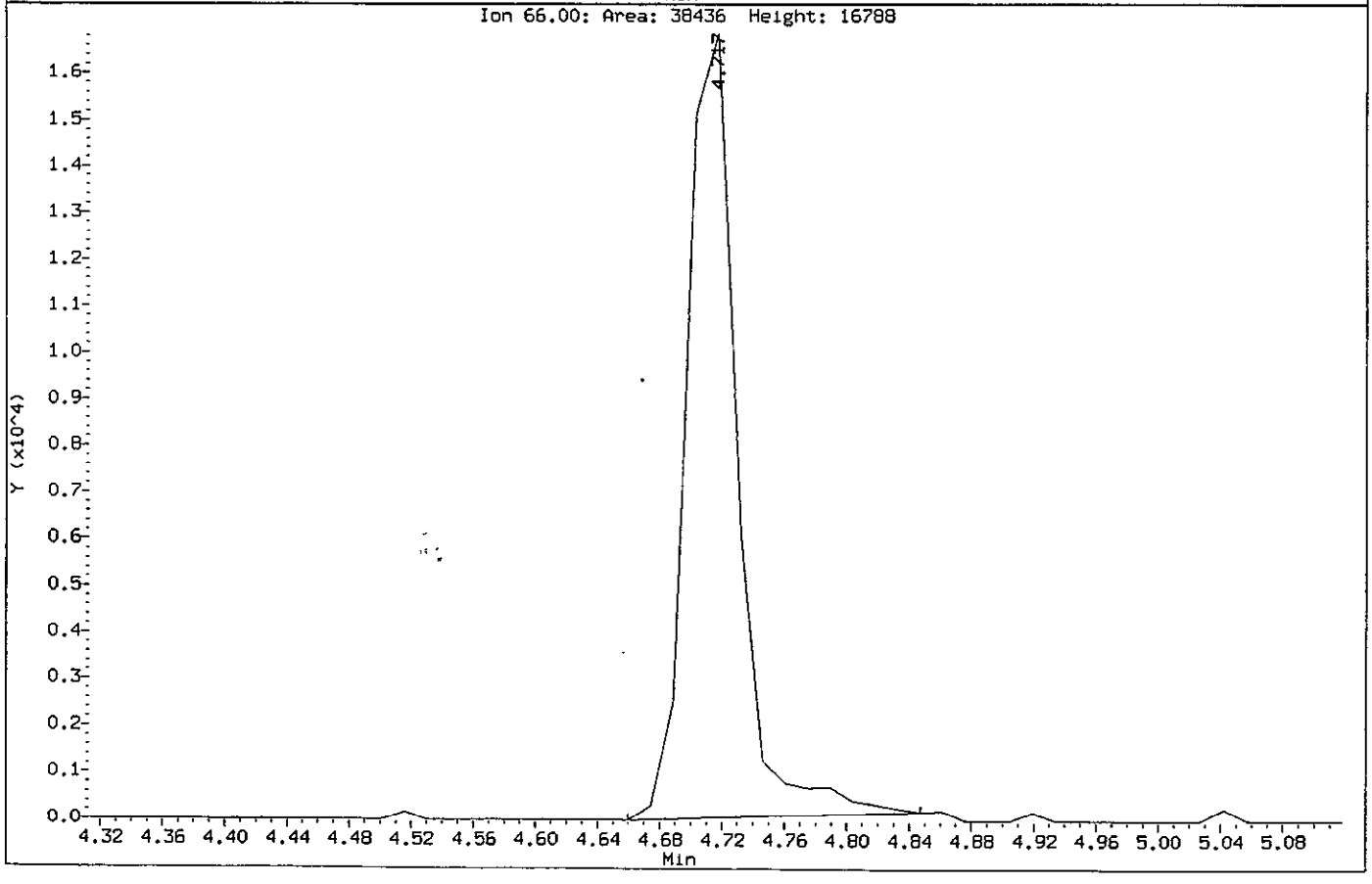
QC Flag Legend

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

Data File: /chem/W.i/Wsvr.p/wceto14.b/ce010q.d
Injection Date: 18-DEC-2000 14:17
Instrument: W.i
Client Sample ID: L4_ICVLCS

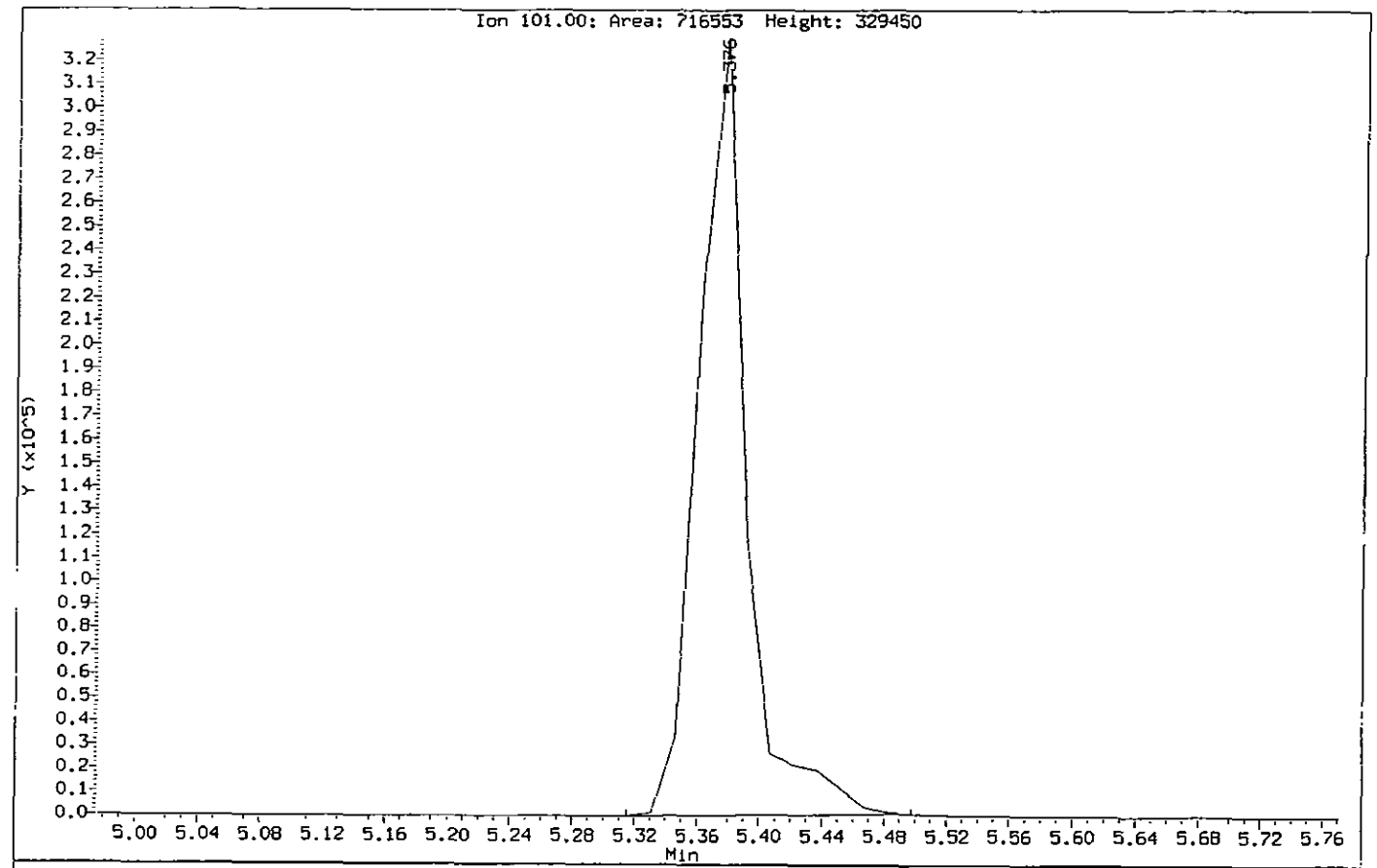
Compound: Chloroethane
CAS Number: 75-00-3

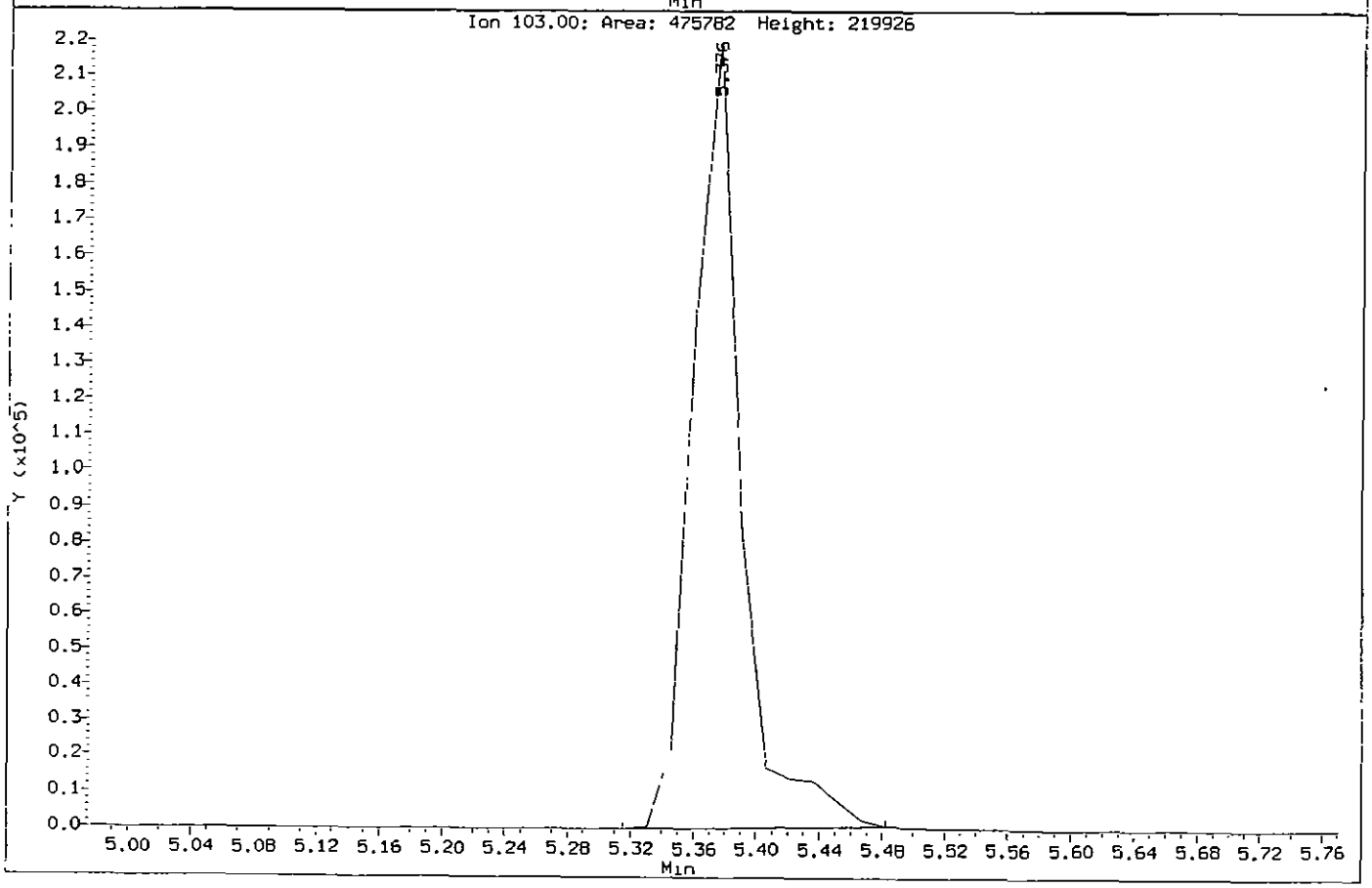




Data File: /chem/W.i/Wsvr.p/wceto14.b/ce010q.d
Injection Date: 18-DEC-2000 14:17
Instrument: W.i
Client Sample ID: L4_ICVLCS

Compound: Trichlorofluoromethane
CAS Number: 75-69-4





STL Burlington

RECOVERY REPORT

Client Name: STLVT
Sample Matrix: GAS
Lab Smp Id: L4_ICVLCS
Level: LOW
Data Type: MS DATA
SpikeList File: all.spk
Sublist File: all.sub
Method File: /chem/W.i/Wsvr.p/wceto14.b/ato14.m
Misc Info:

Client SDG:
Fraction: VOA
Client Smp ID: L4_ICVLCS
Operator: GMM
SampleType: LCS
Quant Type: ISTD

SPIKE COMPOUND	CONC ADDED ppbv	CONC RECOVERED ppbv	% RECOVERED	LIMITS
1 Dichlorodifluorome	10	9.3	93.33	70-130
2 Chloromethane	10	9.5	94.95	70-130
3 Dichlorotetrafluor	10	9.2	92.10	70-130
4 Vinyl Chloride	10	9.5	95.41	70-130
5 Bromomethane	10	9.1	90.75	70-130
6 Chloroethane	10	9.0	90.34	70-130
7 Trichlorofluoromet	10	9.4	94.12	70-130
8 1,1-Dichloroethene	10	9.4	93.52	70-130
9 Methylene Chloride	10	8.7	87.02	70-130
10 Freon TF	10	9.5	94.70	70-130
11 1,1-Dichloroethane	10	9.4	94.26	70-130
12 cis-1,2-Dichloroet	10	9.4	94.42	70-130
14 Chloroform	10	9.4	94.29	70-130
15 1,2-Dichloroethane	10	9.7	97.22	70-130
16 1,1,1-Trichloroeth	10	9.1	91.19	70-130
17 Benzene	10	9.3	93.34	70-130
18 Carbon Tetrachlori	10	9.6	96.36	70-130
20 1,2-Dichloropropan	10	9.5	95.26	70-130
21 Trichloroethene	10	9.7	96.62	70-130
22 cis-1,3-Dichloropr	10	9.5	95.12	70-130
23 trans-1,3-Dichloro	10	8.6	86.53	70-130
24 1,1,2-Trichloroeth	10	9.7	96.62	70-130
25 Toluene	10	9.6	95.99	70-130
26 1,2-Dibromoethane	10	9.7	96.84	70-130
27 Tetrachloroethene	10	9.2	92.52	70-130
29 Chlorobenzene	10	9.3	92.84	70-130
30 Ethylbenzene	10	9.6	96.46	70-130
31 Xylene (m,p)	20	19	96.84	70-130
32 Styrene	10	11	112.59	70-130
34 1,1,2,2-Tetrachlor	10	9.9	99.13	70-130
35 Xylene (o)	10	9.6	96.42	70-130
36 1,3,5-Trimethylben	10	10	103.73	70-130
37 1,2,4-Trimethylben	10	11	106.37	70-130

SPIKE COMPOUND	CONC ADDED ppbv	CONC RECOVERED ppbv	% RECOVERED	LIMIT
38 1,3-Dichlorobenzen	10	10	101.38	70-13
39 1,4-Dichlorobenzen	10	10	100.15	70-13
40 1,2-Dichlorobenzen	10	10	101.28	70-13
41 1,2,4-Trichloroben	10	10	100.75	70-13
42 Hexachlorobutadien	10	10	101.69	70-13

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

09_LCS

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 81391

Matrix: (soil/water) AIR Lab Sample ID: 09_LCS

Sample wt/vol: 200 (g/mL) ML Lab File ID: CE010IQ

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

% Moisture: not dec. _____ Date Analyzed: 01/24/01

GC Column: DB-1 ID: 0.35 (mm) Dilution Factor: 1.0

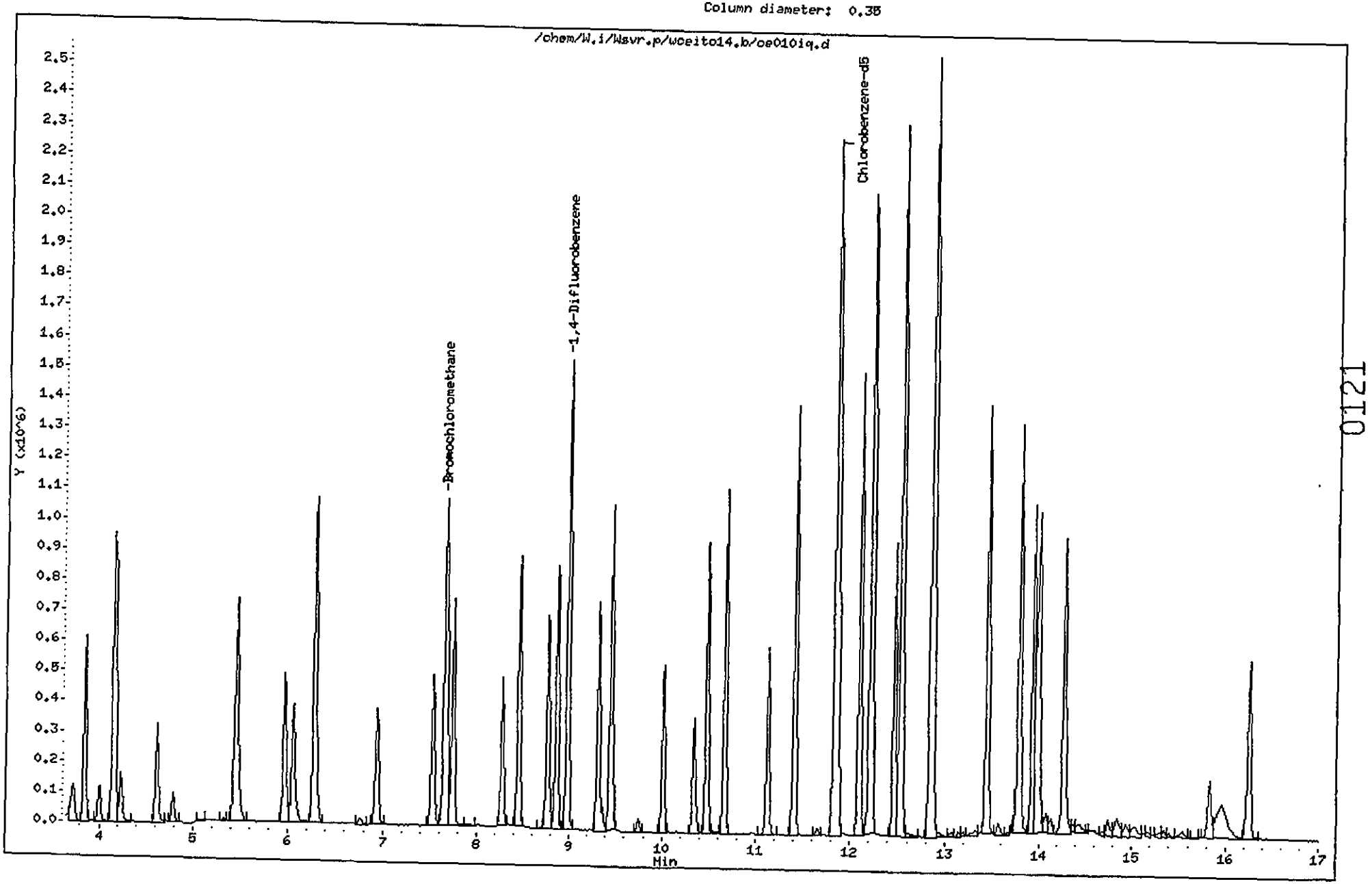
Soil Extract Volume: _____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) PPBV	Q
74-87-3	Chloromethane	7.6	
75-01-4	Vinyl Chloride	8.0	
74-83-9	Bromomethane	8.3	
75-00-3	Chloroethane	8.4	
75-69-4	Trichlorofluoromethane	10	
75-09-2	Methylene Chloride	8.6	
75-34-3	1,1-Dichloroethane	9.6	
156-59-2	cis-1,2-Dichloroethene	9.6	
67-66-3	Chloroform	9.7	
71-55-6	1,1,1-Trichloroethane	10	
56-23-5	Carbon Tetrachloride	10	
71-43-2	Benzene	9.5	
107-06-2	1,2-Dichloroethane	10	
79-01-6	Trichloroethene	9.6	
78-87-5	1,2-Dichloropropane	9.8	
10061-01-5	cis-1,3-Dichloropropene	11	
108-88-3	Toluene	9.8	
10061-02-6	trans-1,3-Dichloropropene	10	
79-00-5	1,1,2-Trichloroethane	9.8	
127-18-4	Tetrachloroethene	9.4	
108-90-7	Chlorobenzene	9.4	
100-41-4	Ethylbenzene	10	
1330-20-7	Xylene (total)	29	
100-42-5	Styrene	12	
1330-20-7	Xylene (m,p)	19	
95-47-6	Xylene (o)	9.8	
79-34-5	1,1,2,2-Tetrachloroethane	10	
541-73-1	1,3-Dichlorobenzene	11	
106-46-7	1,4-Dichlorobenzene	9.4	
95-50-1	1,2-Dichlorobenzene	10	

Data File: /chem/W.i/Wsvr.p/wceito14.b/ce010iq.d
Date : 24-JAN-2001 08:39
Client ID: 09_LCS
Sample Info: 09_LCS;09_LCS
Purge Volume: 200.0
Column phase: DB-1

Instrument: W.i

Operator: GMM
Column diameter: 0.35



STL Burlington

AIR TOXICS QUANTITATION REPORT

Data file : /chem/W.i/Wsvr.p/wceito14.b/ce010iq.d
Lab Smp Id: O9_LCS Client Smp ID: O9_LCS
Inj Date : 24-JAN-2001 08:39
Operator : GMM Inst ID: W.i
Smp Info : O9_LCS;O9_LCS
Misc Info :
Comment :
Method : /chem/W.i/Wsvr.p/wceito14.b/ato14.m
Meth Date : 29-Jan-2001 09:45 mim Quant Type: ISTD
Cal Date : 18-DEC-2000 13:44 Cal File: ce010i2.d
Als bottle: 1 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ACCANA2.sub
Target Version: 3.50
Processing Host: chemsvr4

Concentration Formula: Amt * DF * X* Uf/Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
X	200.00000	method volume factor
Uf	1.00000	ng unit correction factor
Vo	200.00000	Sample Volume purged (mL)

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	FINAL (ppbv)
2	Chloromethane	50	4.012	3.955	(0.523)	149178	7.56725	7.6
4	Vinyl Chloride	62	4.228	4.171	(0.551)	169797	8.00529	8.0
5	Bromomethane	94	4.617	4.546	(0.602)	225898	8.26165	8.3
6	Chloroethane	64	4.790	4.719	(0.625)	109460	8.37620	8.4
7	Trichlorofluoromethane	101	5.451	5.375	(0.711)	754229	10.1359	10
9	Methylene Chloride	49	6.058	5.982	(0.790)	279172	8.65354	8.6
11	1,1-Dichloroethane	63	6.938	6.892	(0.905)	472681	9.55206	9.6
12	cis-1,2-Dichloroethene	61	7.530	7.484	(0.982)	353667	9.57988	9.6
* 13	Bromochloromethane	128	7.666	7.621	(1.000)	332273	10.0000	
14	Chloroform	83	7.742	7.697	(1.010)	636282	9.73002	9.7
15	1,2-Dichloroethane	62	8.273	8.243	(1.079)	449824	10.2415	10
16	1,1,1-Trichloroethane	97	8.456	8.425	(1.103)	648273	10.4322	10
17	Benzene	78	8.774	8.744	(0.976)	704272	9.46773	9.5
18	Carbon Tetrachloride	117	8.865	8.835	(0.986)	573550	10.4582	10

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	FINAL (ppbv)
*	19 1,4-Difluorobenzene	114	8.987	8.956	(1.000)	1303113	10.0000	
	20 1,2-Dichloropropane	63	9.305	9.290	(1.035)	274424	9.84201	9.8
	21 Trichloroethene	95	9.457	9.442	(1.052)	347654	9.61925	9.6
	22 cis-1,3-Dichloropropene	75	10.019	10.003	(1.115)	363535	10.9307	11
	23 trans-1,3-Dichloropropene	75	10.353	10.337	(1.152)	239589	10.1654	10
	24 1,1,2-Trichloroethane	83	10.474	10.474	(1.165)	291757	9.83854	9.8
	25 Toluene	92	10.671	10.656	(0.901)	539762	9.77103	9.8
	27 Tetrachloroethene	166	11.415	11.415	(0.964)	407999	9.38590	9.4
*	28 Chlorobenzene-d5	117	11.840	11.840	(1.000)	1392881	10.0000	
	29 Chlorobenzene	112	11.870	11.870	(1.003)	692760	9.38231	9.4
	30 Ethylbenzene	91	12.098	12.098	(1.022)	1276317	10.0418	10
	31 Xylene (m,p)	106	12.219	12.219	(1.032)	888390	19.3366	19
	32 Styrene	104	12.462	12.462	(1.053)	566075	12.3609	12
M	33 Xylene (total)	106				1331323	29.1933	29
	34 1,1,2,2-Tetrachloroethane	83	12.523	12.523	(1.058)	748372	10.2339	10
	35 Xylene (o)	106	12.538	12.538	(1.059)	442933	9.85667	9.8
	38 1,3-Dichlorobenzene	146	13.934	13.934	(1.177)	664696	11.1934	11
	39 1,4-Dichlorobenzene	146	13.980	13.995	(1.181)	569570	9.38900	9.4
	40 1,2-Dichlorobenzene	146	14.268	14.283	(1.205)	504368	10.5542	10

Report Date: 29-Jan-2001 10:21

STL Burlington

RECOVERY REPORT

Client Name: Client SDG:
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: 09_LCS Client Smp ID: 09_LCS
Level: LOW Operator: GMM
Data Type: MS DATA SampleType: LCS
SpikeList File: ACCANA2.spk Quant Type: ISTD
Sublist File: ACCANA2.sub
Method File: /chem/W.i/Wsvr.p/wceito14.b/ato14.m
Misc Info:

SPIKE	COMPOUND	CONC ADDED ppbv	CONC RECOVERED ppbv	% RECOVERED	LIMITS
2	Chloromethane	10	7.6	75.67	70-130
4	Vinyl Chloride	10	8.0	80.05	70-130
5	Bromomethane	10	8.3	82.62	70-130
6	Chloroethane	10	8.4	83.76	70-130
7	Trichlorofluoromet	10	10	101.36	70-130
9	Methylene Chloride	10	8.6	86.54	70-130
11	1,1-Dichloroethane	10	9.6	95.52	70-130
12	cis-1,2-Dichloroet	10	9.6	95.80	70-130
14	Chloroform	10	9.7	97.30	70-130
15	1,2-Dichloroethane	10	10	102.41	70-130
16	1,1,1-Trichloroeth	10	10	104.32	70-130
17	Benzene	10	9.5	94.68	70-130
18	Carbon Tetrachlori	10	10	104.58	70-130
20	1,2-Dichloropropan	10	9.8	98.42	70-130
21	Trichloroethene	10	9.6	96.19	70-130
22	cis-1,3-Dichloropr	10	11	109.31	70-130
23	trans-1,3-Dichloro	10	10	101.65	70-130
24	1,1,2-Trichloroeth	10	9.8	98.39	70-130
25	Toluene	10	9.8	97.71	70-130
27	Tetrachloroethene	10	9.4	93.86	70-130
29	Chlorobenzene	10	9.4	93.82	70-130
30	Ethylbenzene	10	10	100.42	70-130
31	Xylene (m,p)	20	19	96.68	70-130
32	Styrene	10	12	123.61	70-130
34	1,1,2,2-Tetrachlor	10	10	102.34	70-130
35	Xylene (o)	10	9.8	98.57	70-130
38	1,3-Dichlorobenzen	10	11	111.93	70-130
39	1,4-Dichlorobenzen	10	9.4	93.89	70-130
40	1,2-Dichlorobenzen	10	10	105.54	70-130

SEVERN
TRENT
SERVICES

Severn Trent Laboratories, Inc.

SAMPLE PREPARATION

Severn Trent Laboratories-VT
Instrument Run Log
Instrument W

Batch: wcet014
Opened: 12 / 18 / 00 Time: 0800
Closed: 12 / 19 / 00 Time: 0805

ETR #	SDG #
81024	81024
81015	BBLFA01

Tune. ✓ 252k
ISTD Tag # ; 01-1388

Temp: 195 °C B.P.: 29.27 Hg

INJ. TIME	LAB ID	CAN ID #	CLIENT ID	ETR #	INLET #	SAMPLE VOLUME (mL)	DILUTION FACTOR	ISTD RECOVERY	CONC	ANALYST	COMMENTS
0805	ce001p	n/a	WBFB001	n/a	n/a	n/a	n/a	n/a	✓	GMM	
0830	ce0005	6080	ISTD0005		2	20		✓	✓		AT12150001
1114	ce005	6026	005		3	25		✓	✓		AT12150001
0933	ce010		010		3	50		✓	✓		
1004	ce020		020		3	100		✓	✓		
1038	ce040		040		3	200		✓	✓		
1223	ce0005.2	6080	0005		2	20		✓	✓		
1344	ce010.2	6026	010		3	50		✓	✓		AT11290001
1417	ce0109	6063	L4-1CV		4	200		✓	✓		
1525	ce0001	n/a	ABLKL4		1	200		✓	✓		
1635	440589	6112	-ACAIA1-	81024	2	200	11	✓	✓		C
1707	440590	6104	-ACAZIA1-		3			✓	✓		C
1741	440591	6139	-ACAEA-		4			✓	✓		C
1815	440544	6144	AA-01-01	81015	6			✓	✓		C
1849	440545	6073	AA-02-01		7			✓	✓		C
1923	440546	6039	AA-03-01		9			✓	✓		C
1959	440547	6164	AA-04-01		10			✓	✓		C
2033	440548	6056	GV-01-01		11			✓	↑		

0126

Severn Trent

Instrument Run Log

Instrument w

Batch: wceit019

Opened: 1 / 24 / 01 Time: 0724

Closed: 1 / 25 / 01 Time: 0724

ETR #	SDG #
81391	81391
81427	—

Tune: ✓ 2162

ISTD Tag #: 01-1388

Temp: 19.5 °C B.P.: 29.62 "Hg

INJ. TIME	LAB ID	CAN ID #	CLIENT ID	ETR #	INLET #	SAMPLE VOLUME (mL)	DILUTION FACTOR	ISTD RECOVERY	CONC	ANALYST	COMMENTS
0724	ce010p	n/a	WCF3010	n/a	n/a	n/a	n/a	n/a	✓	GMM	
0806	ce010i	6026	ASTD010		2	50		✓	✓		AT12150001
0839	ce010iq	6063	09-LCS		3	200		✓	✓		AT11290001
0910	cebooli	n/a	ABLK09		1	1000		✓	✓		
0959	442842	6085	ACAIA -	81391	2	200	1.1	✓	✓		C
1033	442843	6013	-ACA2IA-		3			✓	✓		C
1109	442844	6112	-ACAEA-		4			✓	✓		C
1205	443035	6114	SODERBURG B	81427	2	1000	n/a	✓	✓		C
1300	443036	6099	↓ 1		3			✓	✓		C
1356	443037	6131	MUNGER 1		4			✓	✓		C
1444	443038	6157	↓ B		5			✓	✓		C
1515	443039	SLSC001	TB		6			✓	✓		C
1612	443040	6049	ASHLEY 1		7			✓	✓		C
1706	443041	6055	B		8			✓	✓		C
1757	443042	6140	↓ BDUP		9		1.03	✓	✓		C
1854	443043	6054	MJCC OLD 1		10		n/a	✓	✓		C
1950	443044	6166	NEW B		11			✓	✓		C
2042	443045	6163	OLD B		12			✓	✓		C

0127

SEVERN
TRENT
SERVICES

Severn Trent Laboratories, Inc.

SAMPLE HANDLING

PLEASE FOLD THIS SHIPPING DOCUMENT IN HALF AND PLACE IT IN A WAYBILL POUCH AFFIXED TO YOUR SHIPMENT SO THAT THE BAR-CODE PORTION OF THE LABEL CAN BE READ AND SCANNED. ***WARNING: USE ONLY THE PRINTED ORIGINAL LABEL FOR SHIPPING. USING A PHOTOCOPY OF THIS LABEL FOR SHIPPING PURPOSES IS FRAUDULENT AND COULD RESULT IN ADDITIONAL BILLING CHARGES, ALONG WITH THE CANCELLATION OF YOUR FEDEX ACCOUNT NUMBER.

FROM: Randy Dumaop (904)777-4812
CCI / J.A. Jones Environmental
6219 Authority Ave.
Building 1
Jacksonville, FL 32215

SHIPPER'S FEDEX ACCOUNT NUMBER

FedEx
Federal Express

TO: Ron Pentkowski (802)655-1203
Severn Trent Laboratories
208 South Park Drive
Suite 1

Colchester, VT 05446-

SHIP DATE: 17JAN01
MAN-WGT: 24 LBS

REF: 154282/99.22.01.01/30857

DELIVERY ADDRESS BARCODE (FEDEX-EDR)

CAD # 3844729 ** 2DAY **

FRI
AA

TRK # **7904 4831 8301** FORM 0201

Deliver By:
BTV 19JAN01

05446-VT-US
DROP OFF

KF BTVA

1-19-01 0950

0129

SEVERN TRENT LABORATORIES LOG-IN SHEET - Form DC-1

Lab Name: Severn Trent Laboratories - VT

Received By (Print Name): Frank Bessette

Log-in Date: 1-19-01

Received By (Signature): [signature]

Case Number: 20031

Sample Delivery Group No: 81391

ETR Number: 81391

REMARKS:

1. **Custody Seal** ~~Present~~/Absent* ~~Intact~~/Broken
2. **Custody Seal Nos.:** /
3. **Chain-of-Custody Records** ~~Present~~/Absent*
4. **Sample Information Sheets** ~~Present~~/Absent*
5. **Airbill** ~~Airbill~~/Sticker ~~Present~~/Absent*
6. **Airbill No.:** 7904-4831-8301
7. **Sample Tags** ~~Present~~/Absent* **Sample Tag Numbers** ~~Listed~~/Not Listed on Chain-of-Custody
8. **Sample Condition:** ~~Intact~~/Broken* ~~Leaking~~
9. **Does information on the custody records, sample information sheets, sample tags and labels agree?** ~~Yes~~/No*
10. **Date Received at Lab:** 1-19-01
11. **Time Received:** 0950
12. **Cooler Temperature:** N/A

Sample Transfer

Fraction: All

Area #: Level 4

By: FED

On: 1-19-01

CORRESPONDING			
CLIENT SAMPLE #	SAMPLE TAG #	ASSIGNED LAB #	REMARKS: CONDITION OF SAMPLE SHIPMENT, ETC.
029ACAIA01170135		442847	Were air bubbles present in any VOA vials? N/A
029ACA2IA01170109		442843	
029ACAEA01170108		442844	Samples received intact in a box with unbroken custody seals present.

FM 1-19-01

* Contact Project Director

Reviewed by: [signature]

Date: 1/22/01

Logbook No.:

Logbook Page No.:

** COOLER RECEIPT CHECKLIST **

WERE CUSTODY SEALS PRESENT ON THE COOLERS?

(YES) NO

IF SO, WERE THERE CUSTODY SEAL NUMBERS?

YES (NO)

LIST THE CUSTODY SEAL NUMBERS. _____ _____

WHAT TYPE OF COOLING WAS UTILIZED?

ICE MELTED ICE PACKS (NONE)

COOLER TEMPERATURE (degrees c): Box

DATE AND TIME COOLER RECEIVED: 1/19/01 0950

DO SAMPLES APPEAR TO BE INTACT: (YES) NO

DO ANY SAMPLES HAVE SHORT HOLDING TIMES?
(less than seven days)

WET CHEM	YES	(NO)
EXTRACTABLES	YES	(NO)
UNPRES VOA	YES	(NO)

RADIATION SCREEN RESULTS <0.05 MR/HR (YES) NO

SEVERN TRENT SERVICES

Severn Trent Laboratories, Inc.

SAMPLE DATA SUMMARY PACKAGE

FOR 81932

CCI NAVY RAC PMO
MAR 2 3 2001

SEVERN TRENT SERVICES

STL Burlington
Suite 1
208 South Park Drive
Colchester, VT 05446

Tel: 802 655 1203
Fax: 802 655 1248
www.stl-inc.com

March 19, 2001

Ms. Bonnie Hogue
Accura Analytical Laboratories
6017 Financial Drive
Norcross, GA 30071

Re: Laboratory Project No. 20020
Project Name: NAS Jacksonville, FL
Case: 20020; SDG: 81932; Job: CTO0029

Dear Ms. Hogue:

Enclosed are the results of analyses performed on samples received at Severn Trent Laboratories on March 1, 2001. Laboratory numbers have been assigned and designated as follows:

Lab ID	Client Sample ID	Sample Date	Sample Matrix
	Received: 03/01/01 ETR No: 81932		
446442	029SVEEA02260109	02/26/01	Air

Method TO-14A Modified-Volatile Organics;
Due to a limitation of characters inherent in the reporting software, some characters of the client identifications above were truncated.

No exceptions to the method quality control requirements were noted during anysis.

Please note that client specific matrix spike/matrix spike duplicate samples were not performed, nor requested with this sample delivery group.

If there are any questions regarding this submittal, please contact Ron Pentkowski at (802) 655-1203.

This report shall not be reproduced, except in full, without the written approval of the laboratory. This report is sequentially numbered starting with page 0001 and ending with page 0051.

STL Burlington is a part of Severn Trent Laboratories, Inc.

SEVERN TRENT SERVICES

STL Burlington

I certify that this package is in compliance with the NELAC requirements, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Director or his designee, as verified by the following signature.

Sincerely,

Christopher A. Ouellette
Laboratory Director

Enclosure

0001-B last alpha

SEVERN TRENT SERVICES

Severn Trent Laboratories, Inc.

SAMPLE DATA SUMMARY PACKAGE

FOR TO-14A

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

ACCANA SAMPLE NO.

029SVEEA
02260109

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 81932

Matrix: (soil/water) AIR Lab Sample ID: 446442

Sample wt/vol: 200(g/mL) ML Lab File ID: 446442

Level: (low/med) LOW Date Received: 03/01/01

% Moisture: not dec. _____ Date Analyzed: 03/05/01

GC Column: DB-1 ID: 0.35 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) PPBV	Q
74-87-3	Chloromethane	0.87	
75-01-4	Vinyl Chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-09-2	Methylene Chloride	0.57	
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
56-23-5	Carbon Tetrachloride	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-88-3	Toluene	0.50	U
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
1330-20-7	Xylene (total)	0.50	U
100-42-5	Styrene	0.50	U
1330-20-7	Xylene (m,p)	0.50	U
95-47-6	Xylene (o)	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

ACCANA SAMPLE NO.
029SVEEA
02260109

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 81932

Matrix: (soil/water) AIR Lab Sample ID: 446442

Sample wt/vol: 200 (g/mL) ML Lab File ID: 446442

Level: (low/med) LOW Date Received: 03/01/01

% Moisture: not dec. _____ Date Analyzed: 03/05/01

GC Column: DB-1 ID: 0.35 (mm) Dilution Factor: 1.0

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

Number TICs found: 3

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

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		UNKNOWN	5.36	2.4	J
2.		UNKNOWN	9.19	2.4	J
3.		UNKNOWN	14.85	1.4	J
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
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22.					
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27.					
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29.					
30.					

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ABLKU3

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 81932

Matrix: (soil/water) AIR Lab Sample ID: ABLKU3

Sample wt/vol: 200 (g/mL) ML Lab File ID: CGB001B

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

% Moisture: not dec. _____ Date Analyzed: 03/05/01

GC Column: DB-1 ID: 0.35 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) PPBV	Q
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl Chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-09-2	Methylene Chloride	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
56-23-5	Carbon Tetrachloride	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-88-3	Toluene	0.50	U
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
1330-20-7	Xylene (total)	0.50	U
100-42-5	Styrene	0.50	U
1330-20-7	Xylene (m,p)	0.50	U
95-47-6	Xylene (o)	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

ABLKU3

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 81932

Matrix: (soil/water) AIR Lab Sample ID: ABLKU3

Sample wt/vol: 200 (g/mL) ML Lab File ID: CGB001B

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

% Moisture: not dec. _____ Date Analyzed: 03/05/01

GC Column: DB-1 ID: 0.35 (mm) Dilution Factor: 1.0

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

Number TICs found: 0

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

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.					
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
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26.					
27.					
28.					
29.					
30.					

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

S8_ICVLCS

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 81932

Matrix: (soil/water) AIR Lab Sample ID: S8_ICVLCS

Sample wt/vol: 200(g/mL) ML Lab File ID: CG010Q

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

% Moisture: not dec. _____ Date Analyzed: 02/20/01

GC Column: DB-1 ID: 0.35 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) PPBV	Q
74-87-3	Chloromethane	9.0	
75-01-4	Vinyl Chloride	9.4	
74-83-9	Bromomethane	9.0	
75-00-3	Chloroethane	9.3	
75-69-4	Trichlorofluoromethane	9.7	
75-09-2	Methylene Chloride	8.4	
75-34-3	1,1-Dichloroethane	9.8	
156-59-2	cis-1,2-Dichloroethene	11	
67-66-3	Chloroform	10	
71-55-6	1,1,1-Trichloroethane	8.7	
56-23-5	Carbon Tetrachloride	10	
71-43-2	Benzene	10	
107-06-2	1,2-Dichloroethane	8.5	
79-01-6	Trichloroethene	10	
78-87-5	1,2-Dichloropropane	11	
10061-01-5	cis-1,3-Dichloropropene	11	
108-88-3	Toluene	10	
10061-02-6	trans-1,3-Dichloropropene	11	
79-00-5	1,1,2-Trichloroethane	11	
127-18-4	Tetrachloroethene	9.9	
108-90-7	Chlorobenzene	9.9	
100-41-4	Ethylbenzene	11	
1330-20-7	Xylene (total)	32	
100-42-5	Styrene	8.8	
1330-20-7	Xylene (m,p)	21	
95-47-6	Xylene (o)	10	
79-34-5	1,1,2,2-Tetrachloroethane	10	
541-73-1	1,3-Dichlorobenzene	10	
106-46-7	1,4-Dichlorobenzene	9.6	
95-50-1	1,2-Dichlorobenzene	10	

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

U3_LCS

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 81932

Matrix: (soil/water) AIR Lab Sample ID: U3_LCS

Sample wt/vol: 200(g/mL) ML Lab File ID: CG010BQ

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

% Moisture: not dec. _____ Date Analyzed: 03/05/01

GC Column: DB-1 ID: 0.35 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) PPBV	Q
74-87-3	Chloromethane	12	
75-01-4	Vinyl Chloride	13	
74-83-9	Bromomethane	10	
75-00-3	Chloroethane	11	
75-69-4	Trichlorofluoromethane	8.5	
75-09-2	Methylene Chloride	8.0	
75-34-3	1,1-Dichloroethane	8.9	
156-59-2	cis-1,2-Dichloroethene	9.7	
67-66-3	Chloroform	8.9	
71-55-6	1,1,1-Trichloroethane	9.3	
56-23-5	Carbon Tetrachloride	8.4	
71-43-2	Benzene	10	
107-06-2	1,2-Dichloroethane	8.7	
79-01-6	Trichloroethene	9.9	
78-87-5	1,2-Dichloropropane	10	
10061-01-5	cis-1,3-Dichloropropene	11	
108-88-3	Toluene	10	
10061-02-6	trans-1,3-Dichloropropene	11	
79-00-5	1,1,2-Trichloroethane	10	
127-18-4	Tetrachloroethene	11	
108-90-7	Chlorobenzene	9.7	
100-41-4	Ethylbenzene	10	
1330-20-7	Xylene (total)	30	
100-42-5	Styrene	11	
1330-20-7	Xylene (m,p)	20	
95-47-6	Xylene (o)	10	
79-34-5	1,1,2,2-Tetrachloroethane	8.8	
541-73-1	1,3-Dichlorobenzene	10	
106-46-7	1,4-Dichlorobenzene	8.2	
95-50-1	1,2-Dichlorobenzene	9.2	

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

U3_LCSD

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 81932

Matrix: (soil/water) AIR Lab Sample ID: U3_LCSD

Sample wt/vol: 200(g/mL) ML Lab File ID: CG010BQD

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

% Moisture: not dec. _____ Date Analyzed: 03/05/01

GC Column: DB-1 ID: 0.35 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) PPBV	Q
74-87-3	Chloromethane	12	
75-01-4	Vinyl Chloride	13	
74-83-9	Bromomethane	10	
75-00-3	Chloroethane	10	
75-69-4	Trichlorofluoromethane	8.6	
75-09-2	Methylene Chloride	7.4	
75-34-3	1,1-Dichloroethane	8.8	
156-59-2	cis-1,2-Dichloroethene	9.8	
67-66-3	Chloroform	8.9	
71-55-6	1,1,1-Trichloroethane	10	
56-23-5	Carbon Tetrachloride	8.3	
71-43-2	Benzene	10	
107-06-2	1,2-Dichloroethane	9.6	
79-01-6	Trichloroethene	9.7	
78-87-5	1,2-Dichloropropane	10	
10061-01-5	cis-1,3-Dichloropropene	11	
108-88-3	Toluene	10	
10061-02-6	trans-1,3-Dichloropropene	10	
79-00-5	1,1,2-Trichloroethane	10	
127-18-4	Tetrachloroethene	11	
108-90-7	Chlorobenzene	9.7	
100-41-4	Ethylbenzene	10	
1330-20-7	Xylene (total)	30	
100-42-5	Styrene	11	
1330-20-7	Xylene (m,p)	20	
95-47-6	Xylene (o)	9.7	
79-34-5	1,1,2,2-Tetrachloroethane	8.9	
541-73-1	1,3-Dichlorobenzene	9.9	
106-46-7	1,4-Dichlorobenzene	8.4	
95-50-1	1,2-Dichlorobenzene	9.4	

FORM 3
AIR VOLATILE LAB CONTROL SAMPLE

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 81932

Matrix Spike - Sample No.: S8_ICVLCS

COMPOUND	SPIKE ADDED (ppbv)	SAMPLE CONCENTRATION (ug/L)	LCS CONCENTRATION (ppbv)	LCS % REC #	QC. LIMITS REC.
Chloromethane	10		9.0	90	70-130
Vinyl Chloride	10		9.4	94	70-130
Bromomethane	10		9.0	90	70-130
Chloroethane	10		9.3	93	70-130
Trichlorofluoromethane	10		9.7	97	70-130
Methylene Chloride	10		8.4	84	70-130
1,1-Dichloroethane	10		9.8	98	70-130
cis-1,2-Dichloroethene	10		11	110	70-130
Chloroform	10		10	100	70-130
1,1,1-Trichloroethane	10		8.7	87	70-130
Carbon Tetrachloride	10		10	100	70-130
Benzene	10		10	100	70-130
1,2-Dichloroethane	10		8.5	85	70-130
Trichloroethene	10		10	100	70-130
1,2-Dichloropropane	10		11	110	70-130
cis-1,3-Dichloropropene	10		11	110	70-130
Toluene	10		10	100	70-130
trans-1,3-Dichloroprope	10		11	110	70-130
1,1,2-Trichloroethane	10		11	110	70-130
Tetrachloroethene	10		9.9	99	70-130
Chlorobenzene	10		9.9	99	70-130
Ethylbenzene	10		11	110	70-130
Styrene	10		8.8	88	70-130
Xylene (m,p)	20		21	105	70-130
Xylene (o)	10		10	100	70-130
1,1,2,2-Tetrachloroetha	10		10	100	70-130
1,3-Dichlorobenzene	10		10	100	70-130
1,4-Dichlorobenzene	10		9.6	96	70-130

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

* Values outside of QC limits

COMMENTS: _____

FORM 3
AIR VOLATILE LAB CONTROL SAMPLE

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 81932

Matrix Spike - Sample No.: S8_ICVLCS

COMPOUND	SPIKE ADDED (ppbv)	SAMPLE CONCENTRATION (ug/L)	LCS CONCENTRATION (ppbv)	LCS % REC #	QC. LIMITS REC.
1,2-Dichlorobenzene	10		10	100	70-130

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

* Values outside of QC limits

RPD: 0 out of 0 outside limits
Spike Recovery: 0 out of 29 outside limits

COMMENTS: _____

FORM 3
AIR VOLATILE LAB CONTROL SAMPLE

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 81932

Matrix Spike - Sample No.: U3_LCS

COMPOUND	SPIKE ADDED (ppbv)	SAMPLE CONCENTRATION (ug/L)	LCS CONCENTRATION (ppbv)	LCS % REC #	QC. LIMITS REC.
Chloromethane	10		12	120	70-130
Vinyl Chloride	10		13	130	70-130
Bromomethane	10		10	100	70-130
Chloroethane	10		11	110	70-130
Trichlorofluoromethane	10		8.5	85	70-130
Methylene Chloride	10		8.0	80	70-130
1,1-Dichloroethane	10		8.9	89	70-130
cis-1,2-Dichloroethene	10		9.7	97	70-130
Chloroform	10		8.9	89	70-130
1,1,1-Trichloroethane	10		9.3	93	70-130
Carbon Tetrachloride	10		8.4	84	70-130
Benzene	10		10	100	70-130
1,2-Dichloroethane	10		8.7	87	70-130
Trichloroethene	10		9.9	99	70-130
1,2-Dichloropropane	10		10	100	70-130
cis-1,3-Dichloropropene	10		11	110	70-130
Toluene	10		10	100	70-130
trans-1,3-Dichloroprope	10		11	110	70-130
1,1,2-Trichloroethane	10		10	100	70-130
Tetrachloroethene	10		11	110	70-130
Chlorobenzene	10		9.7	97	70-130
Ethylbenzene	10		10	100	70-130
Styrene	10		11	110	70-130
Xylene (m,p)	20		20	100	70-130
Xylene (o)	10		10	100	70-130
1,1,2,2-Tetrachloroetha	10		8.8	88	70-130
1,3-Dichlorobenzene	10		10	100	70-130
1,4-Dichlorobenzene	10		8.2	82	70-130

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

* Values outside of QC limits

COMMENTS: _____

FORM 3
AIR VOLATILE LAB CONTROL SAMPLE

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 81932

Matrix Spike - Sample No.: U3_LCS

COMPOUND	SPIKE ADDED (ppbv)	SAMPLE CONCENTRATION (ug/L)	LCS CONCENTRATION (ppbv)	LCS % REC #	QC. LIMITS REC.
1,2-Dichlorobenzene	10		9.2	92	70-130

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

* Values outside of QC limits

COMMENTS: _____

FORM 3
AIR VOLATILE LAB CONTROL SAMPLE

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 81932

Matrix Spike - Sample No.: U3_LCS

COMPOUND	SPIKE ADDED (ppbv)	LCSD CONCENTRATION (ppbv)	LCSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Chloromethane	10	12	120	0	40	70-130
Vinyl Chloride	10	13	130	0	40	70-130
Bromomethane	10	10	100	0	40	70-130
Chloroethane	10	10	100	10	40	70-130
Trichlorofluoromethane	10	8.6	86	1	40	70-130
Methylene Chloride	10	7.4	74	8	40	70-130
1,1-Dichloroethane	10	8.8	88	1	40	70-130
cis-1,2-Dichloroethene	10	9.8	98	1	40	70-130
Chloroform	10	8.9	89	0	40	70-130
1,1,1-Trichloroethane	10	10	100	7	40	70-130
Carbon Tetrachloride	10	8.3	83	1	40	70-130
Benzene	10	10	100	0	40	70-130
1,2-Dichloroethane	10	9.6	96	10	40	70-130
Trichloroethene	10	9.7	97	2	40	70-130
1,2-Dichloropropane	10	10	100	0	40	70-130
cis-1,3-Dichloropropene	10	11	110	0	40	70-130
Toluene	10	10	100	0	40	70-130
trans-1,3-Dichloroprope	10	10	100	10	40	70-130
1,1,2-Trichloroethane	10	10	100	0	40	70-130
Tetrachloroethene	10	11	110	0	40	70-130
Chlorobenzene	10	9.7	97	0	40	70-130
Ethylbenzene	10	10	100	0	40	70-130
Styrene	10	11	110	0	40	70-130
Xylene (m,p)	20	20	100	0	40	70-130
Xylene (o)	10	9.7	97	3	40	70-130
1,1,2,2-Tetrachloroetha	10	8.9	89	1	40	70-130
1,3-Dichlorobenzene	10	9.9	99	1	40	70-130
1,4-Dichlorobenzene	10	8.4	84	2	40	70-130

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

* Values outside of QC limits

COMMENTS: _____

FORM 3
AIR VOLATILE LAB CONTROL SAMPLE

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 81932

Matrix Spike - Sample No.: U3_LCS

COMPOUND	SPIKE ADDED (ppbv)	LCSD CONCENTRATION (ppbv)	LCSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
1,2-Dichlorobenzene	10	9.4	94	2	40	70-130

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

* Values outside of QC limits

RPD: 0 out of 29 outside limits
Spike Recovery: 0 out of 58 outside limits

COMMENTS: _____

FORM 4
VOLATILE METHOD BLANK SUMMARY

CLIENT SAMPLE NO.

ABLKU3

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 81932

Lab File ID: CGB001B Lab Sample ID: ABLKU3

Date Analyzed: 03/05/01 Time Analyzed: 1013

GC Column: DB-1 ID: 0.35 (mm) Heated Purge: (Y/N) N

Instrument ID: W

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

	SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	U3_LCS	U3_LCS	CG010BQ	0852
02	U3_LCSD	U3_LCSD	CG010BQD	0925
03	029SVEEA0226	446442	446442	1435
04				
05				
06				
07				
08				
09				
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30				

COMMENTS:

FORM 5
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 81932

Lab File ID: CG001P BFB Injection Date: 02/20/01

Instrument ID: W BFB Injection Time: 1005

GC Column: DB-1 ID: 0.32 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	21.6
75	30.0 - 66.0% of mass 95	47.9
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	7.0
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	50.0 - 120.0% of mass 95	65.0
175	4.0 - 9.0% of mass 174	4.6 (7.1)1
176	93.0 - 101.0% of mass 174	63.7 (98.0)1
177	5.0 - 9.0% of mass 176	4.3 (6.7)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	ASTD010	ASTD010	CG010	02/20/01	1129
02	ASTD020	ASTD020	CG020	02/20/01	1203
03	ASTD005	ASTD005	CG005I2	02/20/01	1317
04	ASTD0005	ASTD0005	CG0005I2	02/20/01	1351
05	ASTD040	ASTD040	CG040I2	02/20/01	1427
06	S8_ICVLCS	S8_ICVLCS	CG010Q	02/20/01	1501
07					
08					
09					
10					
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21					
22					

FORM 5
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 81932

Lab File ID: CG003P BFB Injection Date: 03/05/01

Instrument ID: W BFB Injection Time: 0758

GC Column: DB-1 ID: 0.32 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	18.6
75	30.0 - 66.0% of mass 95	43.5
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.6
173	Less than 2.0% of mass 174	0.2 (0.2)1
174	50.0 - 120.0% of mass 95	70.9
175	4.0 - 9.0% of mass 174	5.2 (7.3)1
176	93.0 - 101.0% of mass 174	71.0 (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	ASTD010	ASTD010	CG010B	03/05/01	0818
02	U3_LCS	U3_LCS	CG010BQ	03/05/01	0852
03	U3_LCSD	U3_LCSD	CG010BQD	03/05/01	0925
04	ABLKU3	ABLKU3	CGB001B	03/05/01	1013
05	029SVEEA0226	446442	446442	03/05/01	1435
06					
07					
08					
09					
10					
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14					
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22					

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 81932

Instrument ID: W Calibration Date(s): 02/20/01 02/20/01

Heated Purge: (Y/N) N Calibration Time(s): 1129 1427

GC Column: DB-1 ID: 0.35 (mm)

LAB FILE ID: RRF0.5=CG0005I2 RRF5 =CG005I2
RRF10 =CG010 RRF20 =CG020 RRF40 =CG040I2

COMPOUND		RRF0.5	RRF5	RRF10	RRF20	RRF40	$\overline{RRF}$	% RSD
Chloromethane	*	0.655	0.585	0.430	0.402	0.363	0.487	25.9*
Vinyl Chloride		0.550	0.599	0.493	0.440	0.401	0.497	16.2
Bromomethane		0.834	0.845	0.664	0.595	0.539	0.695	20.0
Chloroethane		0.397	0.407	0.304	0.285	0.259	0.330	20.4
Trichlorofluoromethane		2.801	2.911	2.029	1.866	1.880	2.297	22.4
Methylene Chloride		1.636	1.087	0.773	0.716	0.728	0.988	39.8
1,1-Dichloroethane	*	1.621	1.798	1.272	1.176	1.211	1.416	19.6*
cis-1,2-Dichloroethene		1.018	1.106	0.972	0.891	0.908	0.979	8.9
Chloroform		2.138	2.154	1.729	1.606	1.642	1.854	14.6
1,1,1-Trichloroethane		1.886	2.040	1.584	1.586	1.644	1.748	11.7
Carbon Tetrachloride		0.426	0.467	0.398	0.373	0.360	0.405	10.6
Benzene		0.509	0.547	0.505	0.436	0.409	0.481	11.8
1,2-Dichloroethane		1.435	1.476	1.204	1.136	1.204	1.291	11.9
Trichloroethene		0.262	0.276	0.250	0.211	0.196	0.239	14.2
1,2-Dichloropropane		0.206	0.210	0.199	0.143	0.137	0.179	19.9
cis-1,3-Dichloropropene		0.170	0.252	0.246	0.216	0.209	0.219	15.1
Toluene		0.292	0.387	0.363	0.344	0.368	0.351	10.4
trans-1,3-Dichloropropene		0.112	0.158	0.160	0.145	0.148	0.145	13.2
1,1,2-Trichloroethane		0.222	0.232	0.210	0.171	0.145	0.196	18.7
Tetrachloroethene		0.266	0.290	0.275	0.256	0.240	0.265	7.2
Chlorobenzene	*	0.553	0.513	0.466	0.444	0.418	0.479	11.3*
Ethylbenzene		0.714	0.917	0.825	0.792	0.772	0.804	9.3
Xylene (total)		0.272	0.321	0.289	0.284	0.296	0.292	6.2
Styrene		0.296	0.352	0.377	0.359	0.328	0.342	9.1
Xylene (m,p)		0.289	0.328	0.296	0.287	0.292	0.298	5.7
Xylene (o)		0.272	0.321	0.289	0.284	0.296	0.292	6.2
1,1,2,2-Tetrachloroethane		0.598	0.576	0.493	0.472	0.475	0.523	11.4
1,3-Dichlorobenzene		0.507	0.490	0.393	0.396	0.468	0.451	11.8
1,4-Dichlorobenzene		0.529	0.409	0.464	0.484	0.470	0.471	9.1
1,2-Dichlorobenzene		0.373	0.353	0.341	0.360	0.398	0.365	5.9

* Compounds with required minimum RRF and maximim %RSD values.
All other compounds must meet a minimim RRF of 0.010.

FORM 7
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 81932

Instrument ID: W Calibration Date: 03/05/01 Time: 0818

Lab File ID: CG010B Init. Calib. Date(s): 02/20/01 02/20/01

Heated Purge: (Y/N) N Init. Calib. Times: 1129 1427

GC Column: DB-1 ID: 0.35 (mm)

COMPOUND	$\overline{RRF}$	RRF10	MIN RRF	%D	MAX %D	
Chloromethane	0.487	0.522	0.1	7.2	30.0	
Vinyl Chloride	0.497	0.559	0.01	12.5	30.0	
Bromomethane	0.695	0.656	0.01	5.6	30.0	
Chloroethane	0.330	0.302	0.01	8.5	30.0	
Trichlorofluoromethane	2.297	1.589	0.01	30.8	30.0	<-
Methylene Chloride	0.988	0.643	0.01	34.9	30.0	<-
1,1-Dichloroethane	1.416	1.282	0.1	9.5	30.0	
cis-1,2-Dichloroethene	0.979	0.959	0.01	2.0	30.0	
Chloroform	1.854	1.599	0.01	13.8	30.0	
1,1,1-Trichloroethane	1.748	1.480	0.01	15.3	30.0	
Carbon Tetrachloride	0.405	0.326	0.01	19.5	30.0	
Benzene	0.481	0.492	0.01	2.3	30.0	
1,2-Dichloroethane	1.291	1.038	0.01	19.6	30.0	
Trichloroethene	0.239	0.227	0.01	5.0	30.0	
1,2-Dichloropropane	0.179	0.182	0.01	1.7	30.0	
cis-1,3-Dichloropropene	0.219	0.230	0.01	5.0	30.0	
Toluene	0.351	0.359	0.01	2.3	30.0	
trans-1,3-Dichloropropene	0.145	0.151	0.01	4.1	30.0	
1,1,2-Trichloroethane	0.196	0.193	0.01	1.5	30.0	
Tetrachloroethene	0.265	0.279	0.01	5.3	30.0	
Chlorobenzene	0.479	0.442	0.3	7.7	30.0	
Ethylbenzene	0.804	0.779	0.01	3.1	30.0	
Xylene (total)	0.292	0.273	0.01	6.5	30.0	
Styrene	0.342	0.339	0.01	0.9	30.0	
Xylene (m,p)	0.298	0.285	0.01	4.4	30.0	
Xylene (o)	0.292	0.273	0.01	6.5	30.0	
1,1,2,2-Tetrachloroethane	0.523	0.421	0.01	19.5	30.0	
1,3-Dichlorobenzene	0.451	0.364	0.01	19.3	30.0	
1,4-Dichlorobenzene	0.471	0.307	0.01	34.8	30.0	<-
1,2-Dichlorobenzene	0.365	0.263	0.01	27.9	30.0	

FORM 8
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 81932

Lab File ID (Standard): CG010B Date Analyzed: 03/05/01

Instrument ID: W Time Analyzed: 0818

GC Column: DB-1 ID: 0.35 (mm) Heated Purge: (Y/N) N

		IS1 (BCM) AREA	#	RT	#	IS2 (CBZ) AREA	#	RT	#	IS3 (DFB) AREA	#	RT	#
	12 HOUR STD	564678		7.62		2678825		11.82		2611219		8.96	
	UPPER LIMIT	1355227		7.95		6429180		12.15		6266926		9.29	
	LOWER LIMIT	225871		7.29		1071530		11.49		1044488		8.63	
	CLIENT SAMPLE NO.												
01	U3_LCS	465567		7.62		2503925		11.83		2427745		8.96	
02	U3_LCSD	456456		7.62		2465606		11.83		2422030		8.96	
03	ABLKU3	525922		7.59		2424038		11.83		2444555		8.94	
04	029SVEEA0226	355972		7.62		1719137		11.75		1505868		8.96	
05													
06													
07													
08													
09													
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20													
21													
22													

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

AREA UPPER LIMIT = +140% of internal standard area
AREA LOWER LIMIT = - 60% of internal standard area
RT UPPER LIMIT = + 0.33 minutes of internal standard RT
RT LOWER LIMIT = - 0.33 minutes of internal standard RT

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

81932

Severn Trent Laboratories, Inc.

SEVERN TRENT SERVICES

Severn Trent Laboratories, Inc.

NARRATIVE

SEVERN TRENT SERVICES

STL Burlington
Suite 1
208 South Park Drive
Colchester, VT 05446

Tel: 802 655 1203
Fax: 802 655 1248
www.stl-inc.com

March 19, 2001

Ms. Bonnie Hogue
Accura Analytical Laboratories
6017 Financial Drive
Norcross, GA 30071

Re: Laboratory Project No. 20020
Project Name: NAS Jacksonville, FL
Case: 20020; SDG: 81932; Job: CTO0029

Dear Ms. Hogue:

Enclosed are the results of analyses performed on samples received at Severn Trent Laboratories on March 1, 2001. Laboratory numbers have been assigned and designated as follows:

Lab ID	Client Sample ID	Sample Date	Sample Matrix
	Received: 03/01/01 ETR No: 81932		
446442	029SVEEA02260109	02/26/01	Air

Method TO-14A Modified-Volatile Organics;
Due to a limitation of characters inherent in the reporting software, some characters of the client identifications above were truncated.

No exceptions to the method quality control requirements were noted during anysis.

Please note that client specific matrix spike/matrix spike duplicate samples were not performed, nor requested with this sample delivery group.

If there are any questions regarding this submittal, please contact Ron Pentkowski at (802) 655-1203.

This report shall not be reproduced, except in full, without the written approval of the laboratory. This report is sequentially numbered starting with page 0001 and ending with page 0091.

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I certify that this package is in compliance with the NELAC requirements, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Director or his designee, as verified by the following signature.

Sincerely,

Christopher A. Ouellette
Laboratory Director

Enclosure

0001.RS last alpha

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The following Qualifiers may be used when reporting any Organic parameters analyzed by Gas Chromatography/mass Spectometry (GCMS). Any additional qualifiers used in the reports will be described in the case narrative. These flags are based on the EPA Contract Laboratory Program statement of work.

GC/MS Qualifiers

A- The reported Tentatively Identified Compound (TIC) is a suspected Aldol-condensation product.

B- The reported analyte was detected in the associated method blank as well as the sample.

D - This flag identifies all compounds identified in an analysis at a secondary dilution factor. This flag alerts data users that any discrepancies between the concentrations reported for the dilutions may be due to dilution of the sample or extract. It additionally indicates that spike recoveries may have been diluted below quantifiable levels.

E- Compound quantitation is above the instrument's calibration range for this analysis.

J - Indicates an estimated value. This flag is used when the result is less than the reporting limit, but > ½ reporting limit.

U- Indicates compound was analyzed for but not detected above the reporting limit.

X,Y,Z - Laboratory defined flags. These flags must be fully described, and such description attached to the Sample Data Summary Package and the case Narrative. Begin by using "X" and go on to "Y" as necessary. These flags may also be used to combine several flags, as needed.

STL Burlington is a part of Severn Trent Laboratories, Inc.

CH2M Hill Constructors, Inc.
115 Perimeter Center Place, Suite 700
Atlanta, GA 30346-1278
Tel No (770) 604-9182 , Fax No (770) 604-9282

CHAIN-OF-CUSTODY RECORD

COC NUMBER
154282-12

PROJECT NAME	PROJECT NUMBER	LAB NAME AND CONTACT	FAX AND MAIL REPORTS/EDD TO RECIPIENT 1 (Name and Company)	RECIPIENT 1 (Address, Tel No , and Fax No)
N.A.S Cecil Field 103rd Street	154282	Severn Trent Laboratories/ Ron Pentkowski	Bonnie Hogue Accura Analytical Laboratory	6017 Financial Drive Norcross, GA 30071 (770) 449-8800 Fax:(770) 449-5477
PROJECT PHASE/SITE/TASK	CTO OR DO NUMBER	LAB PO NUMBER	FAX AND MAIL REPORTS/EDD TO RECIPIENT 2 (Name and Company)	RECIPIENT 2 (Address, Tel No , and Fax No)
103rd Street Monthly Air Re-Sample	0029	1760	Jennifer Zimmerman / J.A Jones Env. Services	6219 Authority Ave. Building 1 Jacksonville, FL 32215 (904) 7774812 FAX: (904) 7774262
PROJECT CONTACT	PROJECT TEL NO AND FAX NO	LAB TEL NO AND FAX NO	FAX AND MAIL REPORTS/EDD TO RECIPIENT 3 (Name and Company)	RECIPIENT 3 (Address, Tel No , and Fax No)
David Garrity	Ph:(904)777-4812 Fax:(904) 777-4262	Ph:(802) 655-1203	Jeff Wilmoth / CH2M Hill Constuctors, Inc.	115 Perimeter Center Place, N.E. Suite 700 Atlanta, GA 30346 (770)604-9182 Ext.561 FAX:604-9282

ITEM	SAMPLE IDENTIFIER	SAMPLE DESCRIPTION/LOCATION	MATRIX (see codes on back)	DATE COLLECTED	TIME COLLECTED	DATA PKG LEVEL (see codes on back)	TAT (calendar days)	ANALYSES REQUIRED (Include Method Numbers) Volatiles by 18 / TO 14										SAMPLE TYPE (see codes on back)	COMMENTS/ SCREENING READINGS	LAB ID
1	029-SVE-E-A-0226-01-09	SVE Effluent	A	02/26/01	8:50	III/B	7	1										Grab	Summa Canister	
2																				0803
3																				0804
4																				
5																				
6																				
7																				
8																				
9																				
10																				

SAMPLER(S) AND COMPANY (please print)	COURIER AND SHIPPING NUMBER	SAMPLES TEMPERATURE AND CONDITION UPON RECEIPT
Randy Dumaop / Scott Sloan J.A. Jones Environmental Services	Federal Express TRK#792659451526, 792400044824.	

RELINQUISHED BY	DATE	TIME	RECEIVED BY	DATE	TIME
Printed Name and Signature			Printed Name and Signature		
R.Dumaop L. Dumaop	2/27/01	11:00	Federal Express	2/27/01	11:00
Printed Name and Signature			Printed Name and Signature		
			Frank Bessette	3-1-01	0910
Printed Name and Signature			Printed Name and Signature		

Distribution: [ ] Original - Laboratory (To be returned with Analytical Report), [ ] Copy 1 - Project File; [ ] Copy 2 - PMO

Form CC1001, Rev 02/00

SEVERN TRENT SERVICES

Severn Trent Laboratories, Inc.

METHOD TO-14A
VOLATILE ORGANIC ANALYSIS

QC SUMMARY

FORM 3
AIR VOLATILE LAB CONTROL SAMPLE

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 81932

Matrix Spike - Sample No.: S8_ICVLCS

COMPOUND	SPIKE ADDED (ppbv)	SAMPLE CONCENTRATION (ug/L)	LCS CONCENTRATION (ppbv)	LCS % REC #	QC. LIMITS REC.
Chloromethane	10		9.0	90	70-130
Vinyl Chloride	10		9.4	94	70-130
Bromomethane	10		9.0	90	70-130
Chloroethane	10		9.3	93	70-130
Trichlorofluoromethane	10		9.7	97	70-130
Methylene Chloride	10		8.4	84	70-130
1,1-Dichloroethane	10		9.8	98	70-130
cis-1,2-Dichloroethene	10		11	110	70-130
Chloroform	10		10	100	70-130
1,1,1-Trichloroethane	10		8.7	87	70-130
Carbon Tetrachloride	10		10	100	70-130
Benzene	10		10	100	70-130
1,2-Dichloroethane	10		8.5	85	70-130
Trichloroethene	10		10	100	70-130
1,2-Dichloropropane	10		11	110	70-130
cis-1,3-Dichloropropene	10		11	110	70-130
Toluene	10		10	100	70-130
trans-1,3-Dichloroprope	10		11	110	70-130
1,1,2-Trichloroethane	10		11	110	70-130
Tetrachloroethene	10		9.9	99	70-130
Chlorobenzene	10		9.9	99	70-130
Ethylbenzene	10		11	110	70-130
Styrene	10		8.8	88	70-130
Xylene (m,p)	20		21	105	70-130
Xylene (o)	10		10	100	70-130
1,1,2,2-Tetrachloroetha	10		10	100	70-130
1,3-Dichlorobenzene	10		10	100	70-130
1,4-Dichlorobenzene	10		9.6	96	70-130

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

* Values outside of QC limits

COMMENTS: _____

FORM 3
AIR VOLATILE LAB CONTROL SAMPLE

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 81932

Matrix Spike - Sample No.: S8_ICVLCS

COMPOUND	SPIKE ADDED (ppbv)	SAMPLE CONCENTRATION (ug/L)	LCS CONCENTRATION (ppbv)	LCS % REC #	QC. LIMITS REC.
1,2-Dichlorobenzene	10		10	100	70-130

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

* Values outside of QC limits

RPD: 0 out of 0 outside limits
Spike Recovery: 0 out of 29 outside limits

COMMENTS: _____

FORM 3
AIR VOLATILE LAB CONTROL SAMPLE

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 81932

Matrix Spike - Sample No.: U3_LCS

COMPOUND	SPIKE ADDED (ppbv)	SAMPLE CONCENTRATION (ug/L)	LCS CONCENTRATION (ppbv)	LCS % REC #	QC. LIMITS REC.
Chloromethane	10		12	120	70-130
Vinyl Chloride	10		13	130	70-130
Bromomethane	10		10	100	70-130
Chloroethane	10		11	110	70-130
Trichlorofluoromethane	10		8.5	85	70-130
Methylene Chloride	10		8.0	80	70-130
1,1-Dichloroethane	10		8.9	89	70-130
cis-1,2-Dichloroethene	10		9.7	97	70-130
Chloroform	10		8.9	89	70-130
1,1,1-Trichloroethane	10		9.3	93	70-130
Carbon Tetrachloride	10		8.4	84	70-130
Benzene	10		10	100	70-130
1,2-Dichloroethane	10		8.7	87	70-130
Trichloroethene	10		9.9	99	70-130
1,2-Dichloropropane	10		10	100	70-130
cis-1,3-Dichloropropene	10		11	110	70-130
Toluene	10		10	100	70-130
trans-1,3-Dichloroprope	10		11	110	70-130
1,1,2-Trichloroethane	10		10	100	70-130
Tetrachloroethene	10		11	110	70-130
Chlorobenzene	10		9.7	97	70-130
Ethylbenzene	10		10	100	70-130
Styrene	10		11	110	70-130
Xylene (m,p)	20		20	100	70-130
Xylene (o)	10		10	100	70-130
1,1,2,2-Tetrachloroetha	10		8.8	88	70-130
1,3-Dichlorobenzene	10		10	100	70-130
1,4-Dichlorobenzene	10		8.2	82	70-130

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

* Values outside of QC limits

COMMENTS: _____

FORM 3
AIR VOLATILE LAB CONTROL SAMPLE

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 81932

Matrix Spike - Sample No.: U3_LCS

COMPOUND	SPIKE ADDED (ppbv)	SAMPLE CONCENTRATION (ug/L)	LCS CONCENTRATION (ppbv)	LCS % REC #	QC. LIMITS REC.
1,2-Dichlorobenzene	10		9.2	92	70-130

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

* Values outside of QC limits

COMMENTS: _____

FORM 3
AIR VOLATILE LAB CONTROL SAMPLE

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 81932

Matrix Spike - Sample No.: U3_LCS

COMPOUND	SPIKE ADDED (ppbv)	LCSD CONCENTRATION (ppbv)	LCSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Chloromethane	10	12	120	0	40	70-130
Vinyl Chloride	10	13	130	0	40	70-130
Bromomethane	10	10	100	0	40	70-130
Chloroethane	10	10	100	10	40	70-130
Trichlorofluoromethane	10	8.6	86	1	40	70-130
Methylene Chloride	10	7.4	74	8	40	70-130
1,1-Dichloroethane	10	8.8	88	1	40	70-130
cis-1,2-Dichloroethene	10	9.8	98	1	40	70-130
Chloroform	10	8.9	89	0	40	70-130
1,1,1-Trichloroethane	10	10	100	7	40	70-130
Carbon Tetrachloride	10	8.3	83	1	40	70-130
Benzene	10	10	100	0	40	70-130
1,2-Dichloroethane	10	9.6	96	10	40	70-130
Trichloroethene	10	9.7	97	2	40	70-130
1,2-Dichloropropane	10	10	100	0	40	70-130
cis-1,3-Dichloropropene	10	11	110	0	40	70-130
Toluene	10	10	100	0	40	70-130
trans-1,3-Dichloroprope	10	10	100	10	40	70-130
1,1,2-Trichloroethane	10	10	100	0	40	70-130
Tetrachloroethene	10	11	110	0	40	70-130
Chlorobenzene	10	9.7	97	0	40	70-130
Ethylbenzene	10	10	100	0	40	70-130
Styrene	10	11	110	0	40	70-130
Xylene (m,p)	20	20	100	0	40	70-130
Xylene (o)	10	9.7	97	3	40	70-130
1,1,2,2-Tetrachloroetha	10	8.9	89	1	40	70-130
1,3-Dichlorobenzene	10	9.9	99	1	40	70-130
1,4-Dichlorobenzene	10	8.4	84	2	40	70-130

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

* Values outside of QC limits

COMMENTS: _____

FORM 3
AIR VOLATILE LAB CONTROL SAMPLE

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 81932

Matrix Spike - Sample No.: U3_LCS

COMPOUND	SPIKE ADDED (ppbv)	LCSD CONCENTRATION (ppbv)	LCSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
1,2-Dichlorobenzene	10	9.4	94	2	40	70-130

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

* Values outside of QC limits

RPD: 0 out of 29 outside limits
Spike Recovery: 0 out of 58 outside limits

COMMENTS: _____

FORM 4
VOLATILE METHOD BLANK SUMMARY

CLIENT SAMPLE NO.

ABLKU3

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 81932

Lab File ID: CGB001B Lab Sample ID: ABLKU3

Date Analyzed: 03/05/01 Time Analyzed: 1013

GC Column: DB-1 ID: 0.35 (mm) Heated Purge: (Y/N) N

Instrument ID: W

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

	SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	U3_LCS	U3_LCS	CG010BQ	0852
02	U3_LCSD	U3_LCSD	CG010BQD	0925
03	029SVEEA0226	446442	446442	1435
04				
05				
06				
07				
08				
09				
10				
11				
12				
13				
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30				

COMMENTS:

FORM 5
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 81932

Lab File ID: CG001P BFB Injection Date: 02/20/01

Instrument ID: W BFB Injection Time: 1005

GC Column: DB-1 ID: 0.32 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	21.6
75	30.0 - 66.0% of mass 95	47.9
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	7.0
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	50.0 - 120.0% of mass 95	65.0
175	4.0 - 9.0% of mass 174	4.6 (7.1)1
176	93.0 - 101.0% of mass 174	63.7 (98.0)1
177	5.0 - 9.0% of mass 176	4.3 (6.7)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	ASTD010	ASTD010	CG010	02/20/01	1129
02	ASTD020	ASTD020	CG020	02/20/01	1203
03	ASTD005	ASTD005	CG005I2	02/20/01	1317
04	ASTD0005	ASTD0005	CG0005I2	02/20/01	1351
05	ASTD040	ASTD040	CG040I2	02/20/01	1427
06	S8_ICVLCS	S8_ICVLCS	CG010Q	02/20/01	1501
07					
08					
09					
10					
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14					
15					
16					
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19					
20					
21					
22					

FORM 5
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 81932

Lab File ID: CG003P BFB Injection Date: 03/05/01

Instrument ID: W BFB Injection Time: 0758

GC Column: DB-1 ID: 0.32 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	18.6
75	30.0 - 66.0% of mass 95	43.5
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.6
173	Less than 2.0% of mass 174	0.2 (0.2)1
174	50.0 - 120.0% of mass 95	70.9
175	4.0 - 9.0% of mass 174	5.2 (7.3)1
176	93.0 - 101.0% of mass 174	71.0 (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	ASTD010	ASTD010	CG010B	03/05/01	0818
02	U3_LCS	U3_LCS	CG010BQ	03/05/01	0852
03	U3_LCSD	U3_LCSD	CG010BQD	03/05/01	0925
04	ABLKU3	ABLKU3	CGB001B	03/05/01	1013
05	029SVEEA0226	446442	446442	03/05/01	1435
06					
07					
08					
09					
10					
11					
12					
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14					
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17					
18					
19					
20					
21					
22					

FORM 8
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 81932

Lab File ID (Standard): CG010B Date Analyzed: 03/05/01

Instrument ID: W Time Analyzed: 0818

GC Column: DB-1 ID: 0.35 (mm) Heated Purge: (Y/N) N

		IS1 (BCM) AREA #	RT #	IS2 (CBZ) AREA #	RT #	IS3 (DFB) AREA #	RT #
	12 HOUR STD	564678	7.62	2678825	11.82	2611219	8.96
	UPPER LIMIT	1355227	7.95	6429180	12.15	6266926	9.29
	LOWER LIMIT	225871	7.29	1071530	11.49	1044488	8.63
	CLIENT SAMPLE NO.						
01	U3_LCS	465567	7.62	2503925	11.83	2427745	8.96
02	U3_LCSD	456456	7.62	2465606	11.83	2422030	8.96
03	ABLKU3	525922	7.59	2424038	11.83	2444555	8.94
04	029SVEEA0226	355972	7.62	1719137	11.75	1505868	8.96
05							
06							
07							
08							
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20							
21							
22							

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

AREA UPPER LIMIT = +140% of internal standard area
AREA LOWER LIMIT = - 60% of internal standard area
RT UPPER LIMIT = + 0.33 minutes of internal standard RT
RT LOWER LIMIT = - 0.33 minutes of internal standard RT

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

Severn Trent Laboratories, Inc.

METHOD TO-14A
VOLATILE ORGANIC ANALYSIS

SUPPORTIVE DOCUMENTATION

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

ACCANA SAMPLE NO.

029SVEEA
02260109

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 81932

Matrix: (soil/water) AIR Lab Sample ID: 446442

Sample wt/vol: 200(g/mL) ML Lab File ID: 446442

Level: (low/med) LOW Date Received: 03/01/01

% Moisture: not dec. _____ Date Analyzed: 03/05/01

GC Column: DB-1 ID: 0.35 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) PPBV	Q
74-87-3	Chloromethane	0.87	
75-01-4	Vinyl Chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-09-2	Methylene Chloride	0.57	
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
56-23-5	Carbon Tetrachloride	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-88-3	Toluene	0.50	U
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
1330-20-7	Xylene (total)	0.50	U
100-42-5	Styrene	0.50	U
1330-20-7	Xylene (m,p)	0.50	U
95-47-6	Xylene (o)	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

ACCANA SAMPLE NO.
029SVEEA
02260109

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 81932

Matrix: (soil/water) AIR Lab Sample ID: 446442

Sample wt/vol: 200 (g/mL) ML Lab File ID: 446442

Level: (low/med) LOW Date Received: 03/01/01

% Moisture: not dec. _____ Date Analyzed: 03/05/01

GC Column: DB-1 ID: 0.35 (mm) Dilution Factor: 1.0

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

Number TICs found: 3

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

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		UNKNOWN	5.36	2.4	J
2.		UNKNOWN	9.19	2.4	J
3.		UNKNOWN	14.85	1.4	J
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
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25.					
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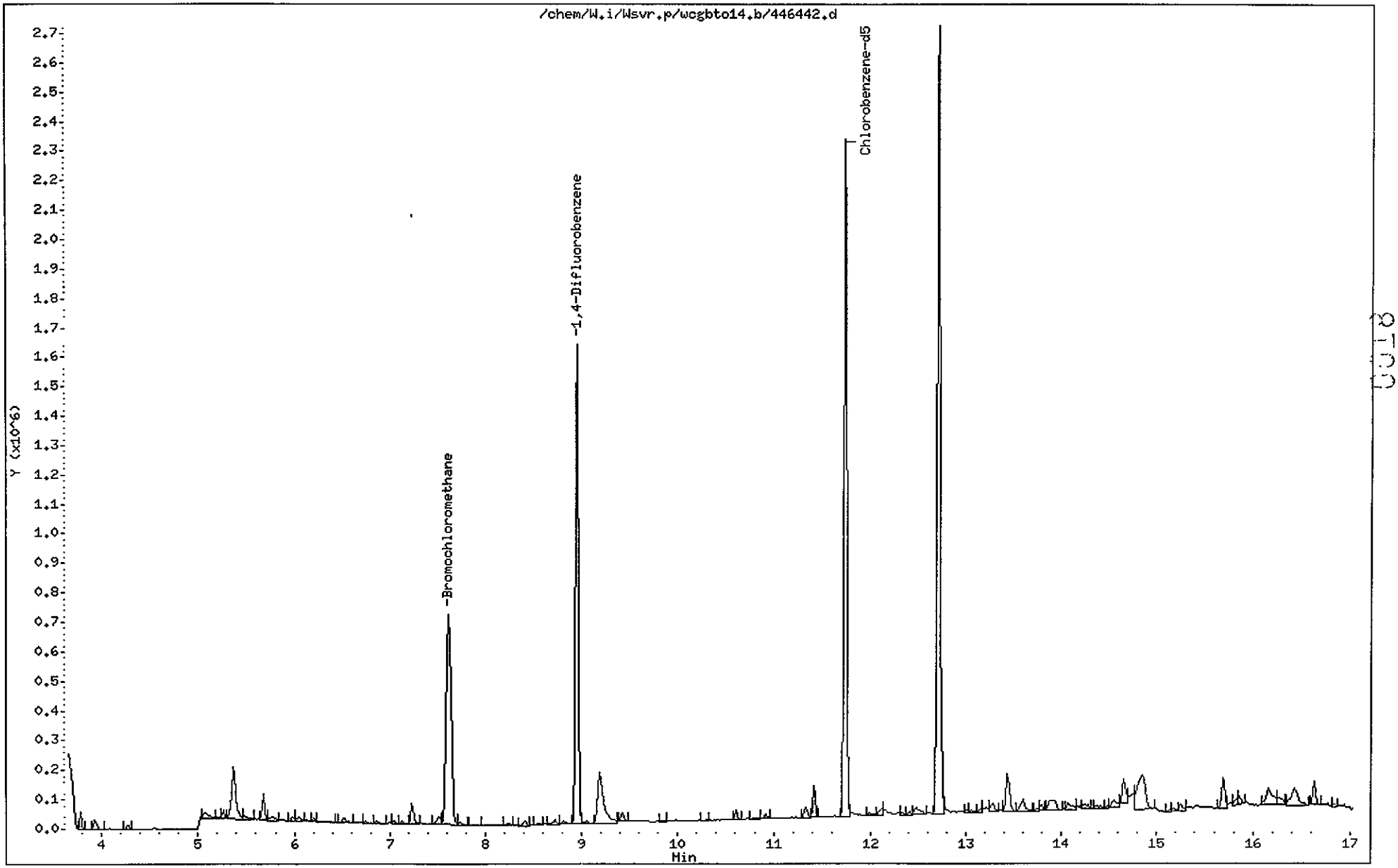
27.					
28.					
29.					
30.					

Data File: /chem/W.i/Wsvr.p/wcgbto14.b/446442.d
Date : 05-MAR-2001 14:35
Client ID: 029SVEEA02260109
Instrument: W.i
Sample Info: 446442;02029SVEEA02260109;0305U3
Purge Volume: 200.0
Operator: GMM
Column phase: DB-1
Column diameter: 0.35



STL Burlington

AIR TOXICS QUANTITATION REPORT

Data file : /chem/W.i/Wsvr.p/wcgbto14.b/446442.d
Lab Smp Id: 446442 Client Smp ID: 029SVEEA02260109
Inj Date : 05-MAR-2001 14:35
Operator : GMM Inst ID: W.i
Smp Info : 446442;02029SVEEA02260109;0305U3
Misc Info : 100%
Comment :
Method : /chem/W.i/Wsvr.p/wcgbto14.b/bto14a.m
Meth Date : 16-Mar-2001 15:13 mim Quant Type: ISTD
Cal Date : 20-FEB-2001 14:27 Cal File: cg040i2.d
Als bottle: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ACCANA2.sub
Target Version: 3.50
Processing Host: chemsvr4

Concentration Formula: Amt * DF * X* Uf/Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
X	200.00000	method volume factor
Uf	1.00000	ng unit correction factor
Vo	200.00000	Sample Volume purged (mL)

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	FINAL (ppbv)
2	Chloromethane	50	3.945	4.011	(0.518)	15116	0.87205	0.87(M)
4	Vinyl Chloride	62	Compound Not Detected.					
5	Bromomethane	94	Compound Not Detected.					
6	Chloroethane	64	Compound Not Detected.					
7	Trichlorofluoromethane	101	Compound Not Detected.					
9	Methylene Chloride	49	5.983	6.057	(0.785)	19942	0.56692	0.57(M)
11	1,1-Dichloroethane	63	Compound Not Detected.					
12	cis-1,2-Dichloroethene	61	Compound Not Detected.					
* 13	Bromochloromethane	128	7.622	7.666	(1.000)	355972	10.0000	
14	Chloroform	83	Compound Not Detected.					
15	1,2-Dichloroethane	62	Compound Not Detected.					
16	1,1,1-Trichloroethane	97	Compound Not Detected.					
17	Benzene	78	Compound Not Detected.					
18	Carbon Tetrachloride	117	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	FINAL (ppbv)
*	19 1,4-Difluorobenzene	114	8.958	8.986	(1.000)	1505868	10.0000	
	20 1,2-Dichloropropane	63	Compound Not Detected.					
	21 Trichloroethene	95	Compound Not Detected.					
	22 cis-1,3-Dichloropropene	75	Compound Not Detected.					
	23 trans-1,3-Dichloropropene	75	Compound Not Detected.					
	24 1,1,2-Trichloroethane	83	Compound Not Detected.					
	25 Toluene	92	Compound Not Detected.					
	27 Tetrachloroethene	166	Compound Not Detected.					
*	28 Chlorobenzene-d5	117	11.750	11.839	(1.000)	1719137	10.0000	
	29 Chlorobenzene	112	Compound Not Detected.					
	30 Ethylbenzene	91	Compound Not Detected.					
	31 Xylene (m,p)	106	Compound Not Detected.					
	32 Styrene	104	Compound Not Detected.					
M	33 Xylene (total)	106	Compound Not Detected.					
	34 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					
	35 Xylene (o)	106	Compound Not Detected.					
	38 1,3-Dichlorobenzene	146	Compound Not Detected.					
	39 1,4-Dichlorobenzene	146	Compound Not Detected.					
	40 1,2-Dichlorobenzene	146	Compound Not Detected.					

QC Flag Legend

M - Compound response manually integrated.

03/16/01

STL Burlington

AIR TOXICS QUANTITATION REPORT

Data file : /chem/W.i/Wsvr.p/wcgbto14.b/446442.d
Lab Smp Id: 446442 Client Smp ID: 029SVEEA02260109
Inj Date : 05-MAR-2001 14:35
Operator : GMM Inst ID: W.i
Smp Info : 446442;02029SVEEA02260109;0305U3
Misc Info : 100%
Comment :
Method : /chem/W.i/Wsvr.p/wcgbto14.b/bto14a.m
Meth Date : 16-Mar-2001 15:13 mim Quant Type: ISTD
Cal Date : 20-FEB-2001 14:27 Cal File: cg040i2.d
Als bottle: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ACCANA2.sub
Target Version: 3.50
Processing Host: chemsvr4

Concentration Formula: Amt * DF * X* Uf/Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
X	200.00000	method volume factor
Uf	1.00000	ng unit correction factor
Vo	200.00000	Sample Volume purged (mL)

Cpnd Variable Local Compound Variable

ISTD	RT	AREA	AMOUNT
* 13 Bromochloromethane	7.622	2439454	10.000
* 19 1,4-Difluorobenzene	8.958	3415141	10.000
* 28 Chlorobenzene-d5	11.750	4735607	10.000

		CONCENTRATIONS			QUANT		
RT	AREA	ON-COL(ppbv)	FINAL(ppbv)	QUAL	LIBRARY	LIB ENTRY	CPND #
Unknown				CAS #:			
5.361	581462	2.38357621	2.4	0	0		13

		CONCENTRATIONS			QUANT		
RT	AREA	ON-COL(ppbv)	FINAL(ppbv)	QUAL	LIBRARY	LIB ENTRY	CPND #
Unknown				CAS #:			
9.185	803628	2.35313172	2.4	0		0	19
Unknown				CAS #:			
14.846	670036	1.41488865	1.4	0		0	28

Data File: /chem/W.i/Wsvr.p/wcgbto14.b/446442.d

Date : 05-MAR-2001 14:35

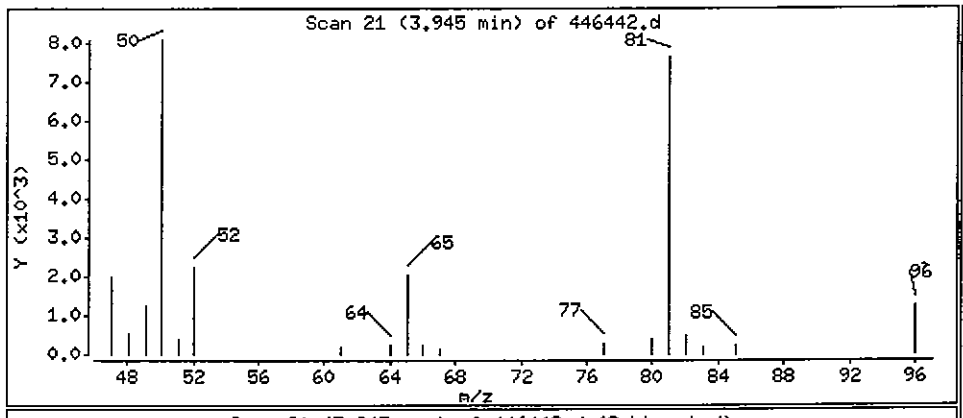
Client ID: 029SVEEA02260109 Instrument: W.i

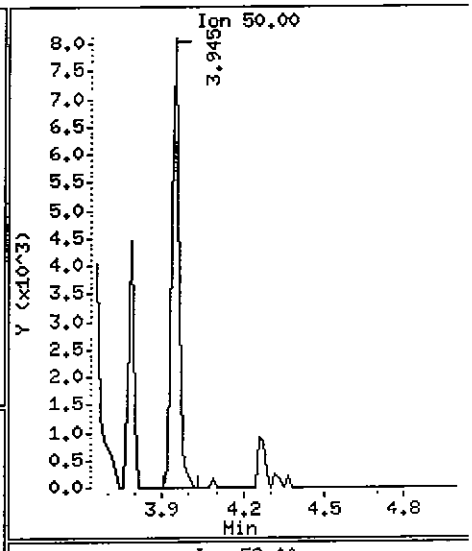
Sample Info: 446442;02029SVEEA02260109;0305U3

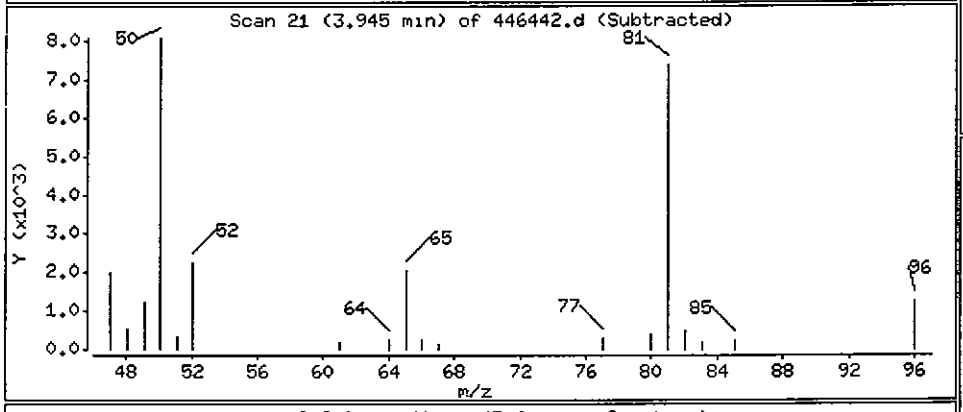
Purge Volume: 200.0 Operator: GMH

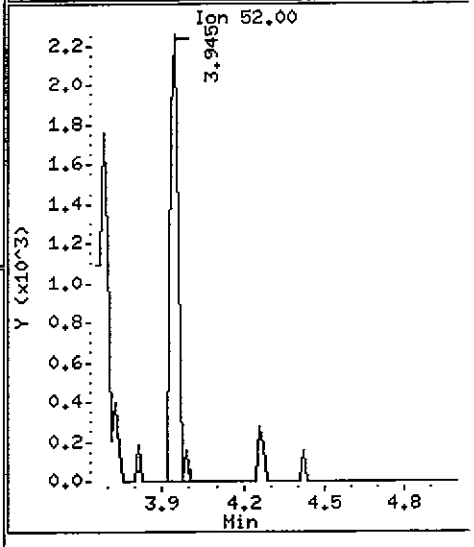
Column phase: DB-1 Column diameter: 0.35

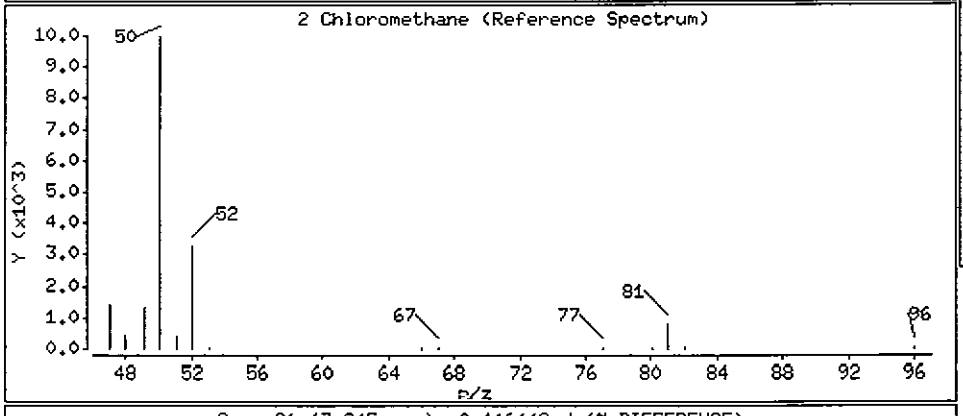
2 Chloromethane Concentration: 0.87 ppbv

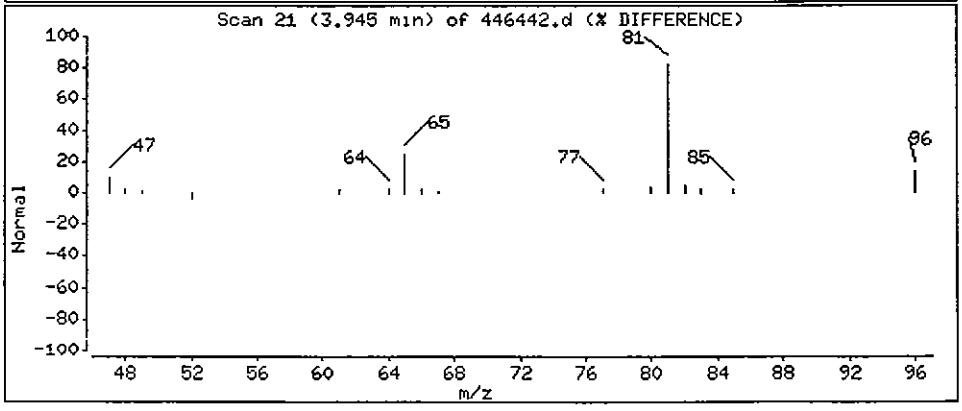












Data File: /chem/W.i/Wsvr.p/wcgbto14.b/446442.d

Date : 05-MAR-2001 14:35

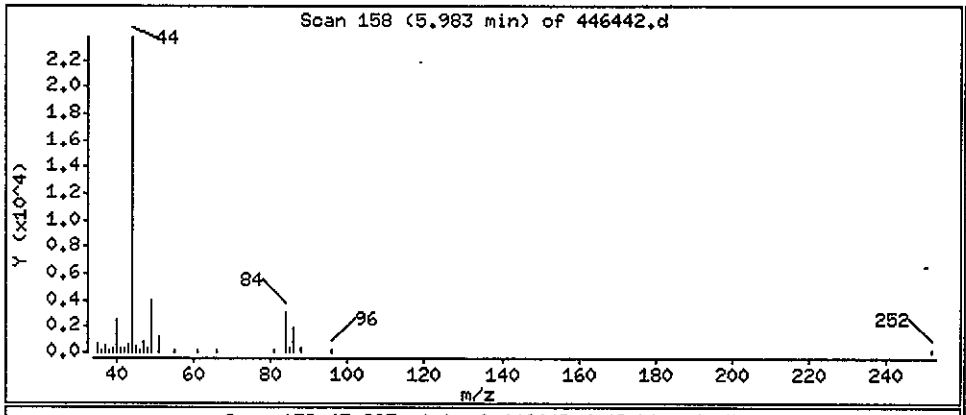
Client ID: 029SVEEA02260109 Instrument: W.i

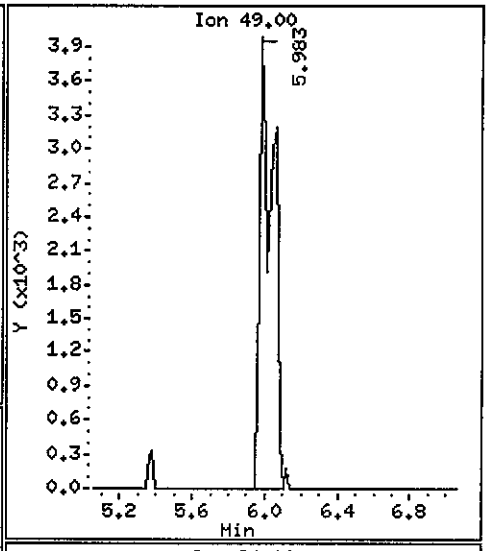
Sample Info: 446442;02029SVEEA02260109;0305U3

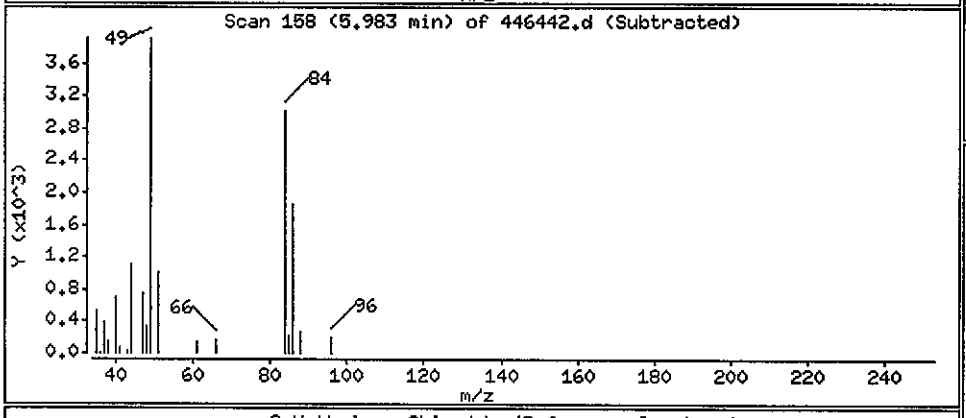
Purge Volume: 200.0 Operator: GHM

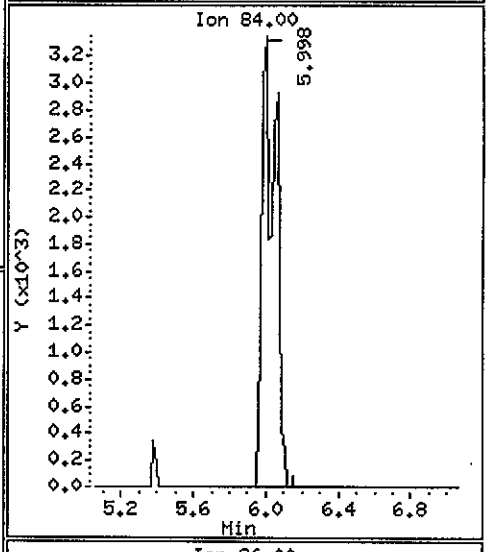
Column phase: DB-1 Column diameter: 0.35

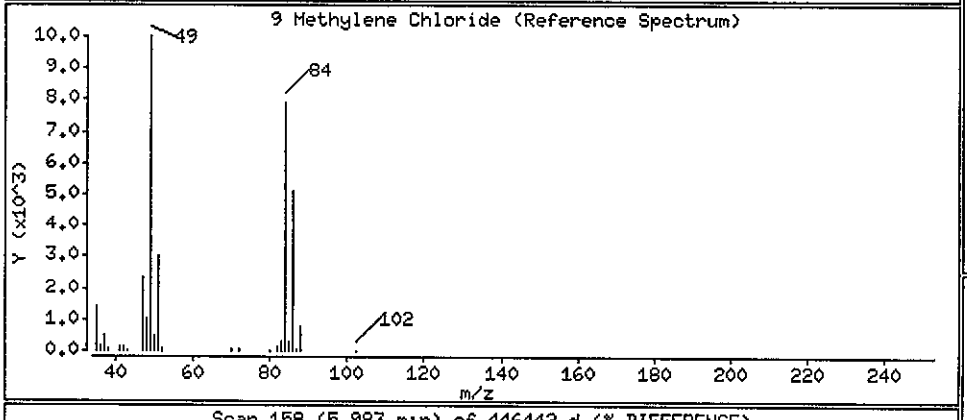
9 Methylene Chloride Concentration: 0.57 ppbv

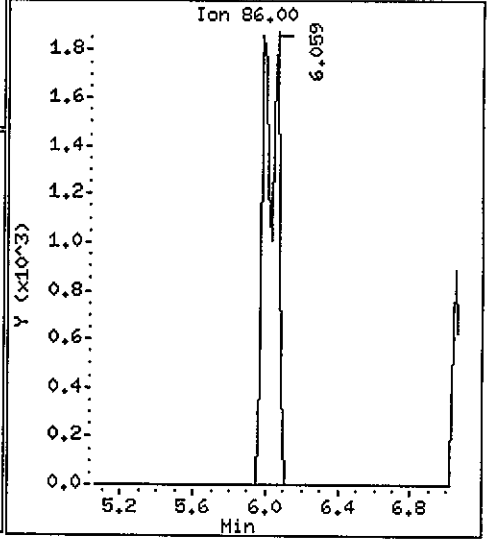


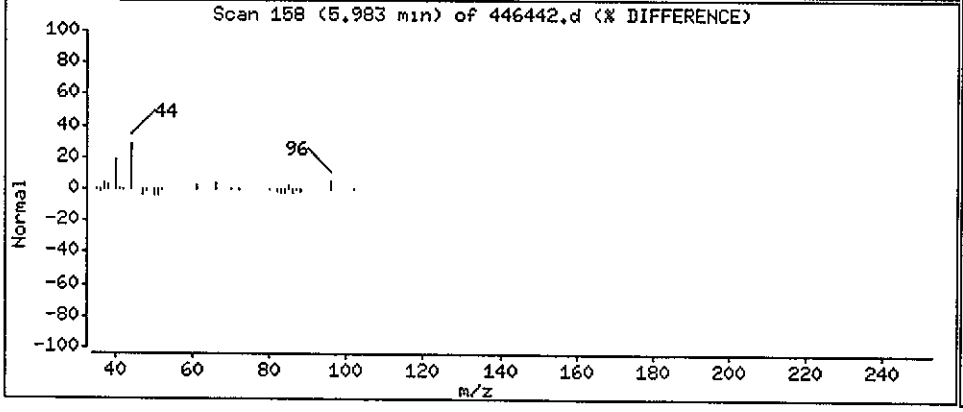












Data File: /chem/W.i/Wsvr.p/wcgbto14.b/446442.d

Date : 05-MAR-2001 14:35

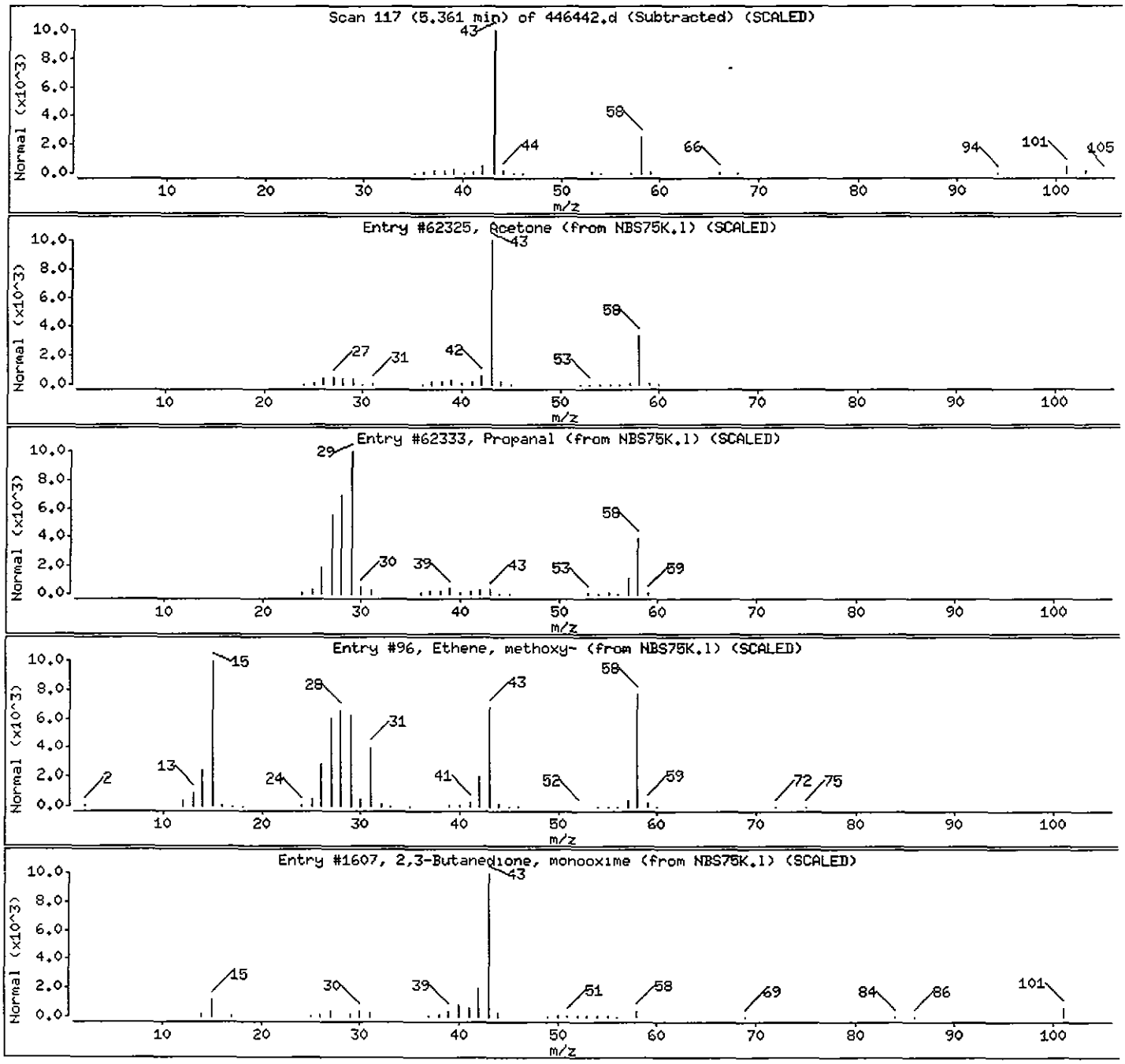
Client ID: 029SVEEA02260109 Instrument: W.i

Sample Info: 446442;02029SVEEA02260109;0305U3

Purge Volume: 200.0 Operator: GMH

Column phase: DB-1 Column diameter: 0.35

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Acetone	67-64-1	NBS75K.1	62325	53	C3H6O	58
Propanal	123-38-6	NBS75K.1	62333	5	C3H6O	58
Ethene, methoxy-	107-25-5	NBS75K.1	96	5	C3H6O	58
2,3-Butanedione, monooxime	57-71-6	NBS75K.1	1607	4	C4H7NO2	101



Data File: /chem/W.i/Wsvr.p/wcgbto14.b/446442.d

Date : 05-MAR-2001 14:35

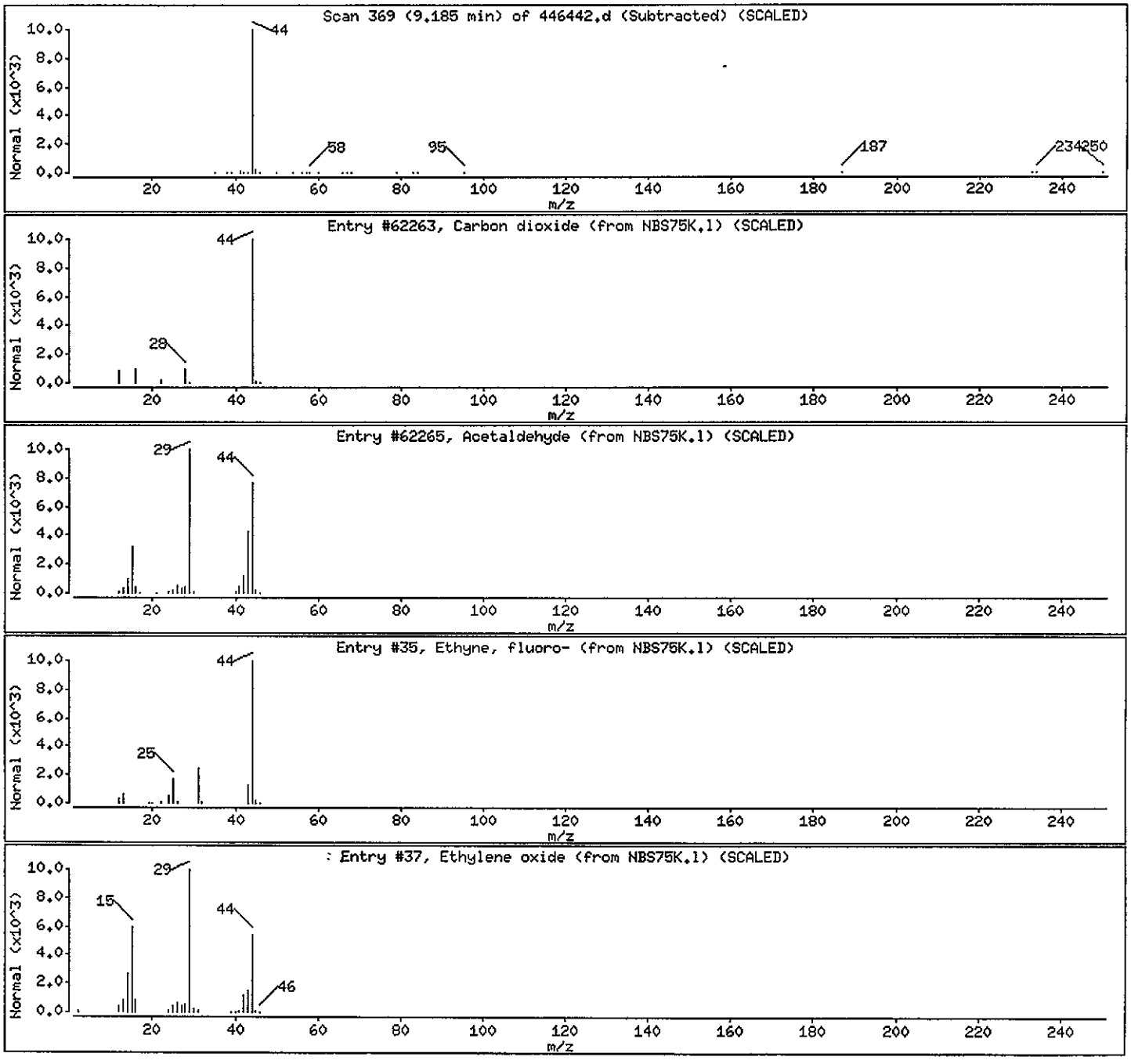
Client ID: 029SVEEA02260109 Instrument: W.i

Sample Info: 446442;02029SVEEA02260109;0305U3

Purge Volume: 200.0 Operator: GMM

Column phase: DB-1 Column diameter: 0.35

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Carbon dioxide	124-38-9	NBS75K.l	62263	5	CO2	44
Acetaldehyde	75-07-0	NBS75K.l	62265	3	C2H4O	44
Ethyne, fluoro-	2713-09-9	NBS75K.l	35	3	C2HF	44
Ethylene oxide	75-21-8	NBS75K.l	37	3	C2H4O	44



Data File: /chem/W.i/Wsvr.p/wcgbto14.b/446442.d

Date : 05-MAR-2001 14:35

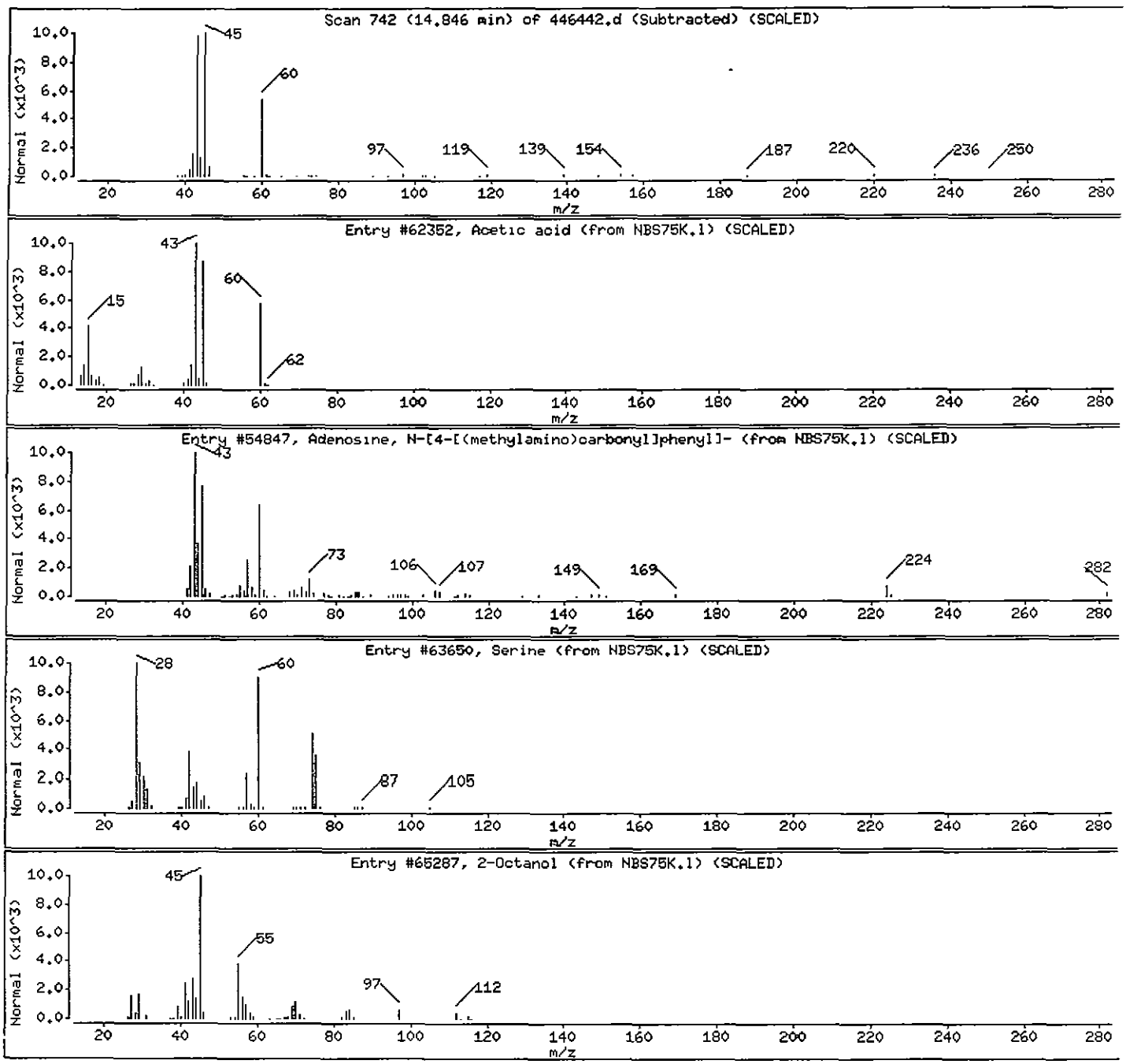
Client ID: 029SVEEA02260109 Instrument: W.i

Sample Info: 446442;02029SVEEA02260109;0305U3

Purge Volume: 200.0 Operator: GMH

Column phase: DB-1 Column diameter: 0.35

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Acetic acid	64-19-7	NBS75K.l	62352	78	C2H4O2	60
Adenosine, N-[4-[(methylamino)carbonyl]p	0-00-0	NBS75K.l	54847	9	C19H22N6O5	414
Serine	56-45-1	NBS75K.l	63650	9	C3H7NO3	105
2-Octanol	123-96-6	NBS75K.l	65287	9	C8H18O	130



SEVERN TRENT SERVICES

Severn Trent Laboratories, Inc.

METHOD TO-14A
VOLATILE ORGANIC ANALYSIS

STANDARDS

6A

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 81932

Instrument ID: W Calibration Date(s): 02/20/01 02/20/01

Heated Purge: (Y/N) N Calibration Time(s): 1129 1427

GC Column: DB-1 ID: 0.35 (mm)

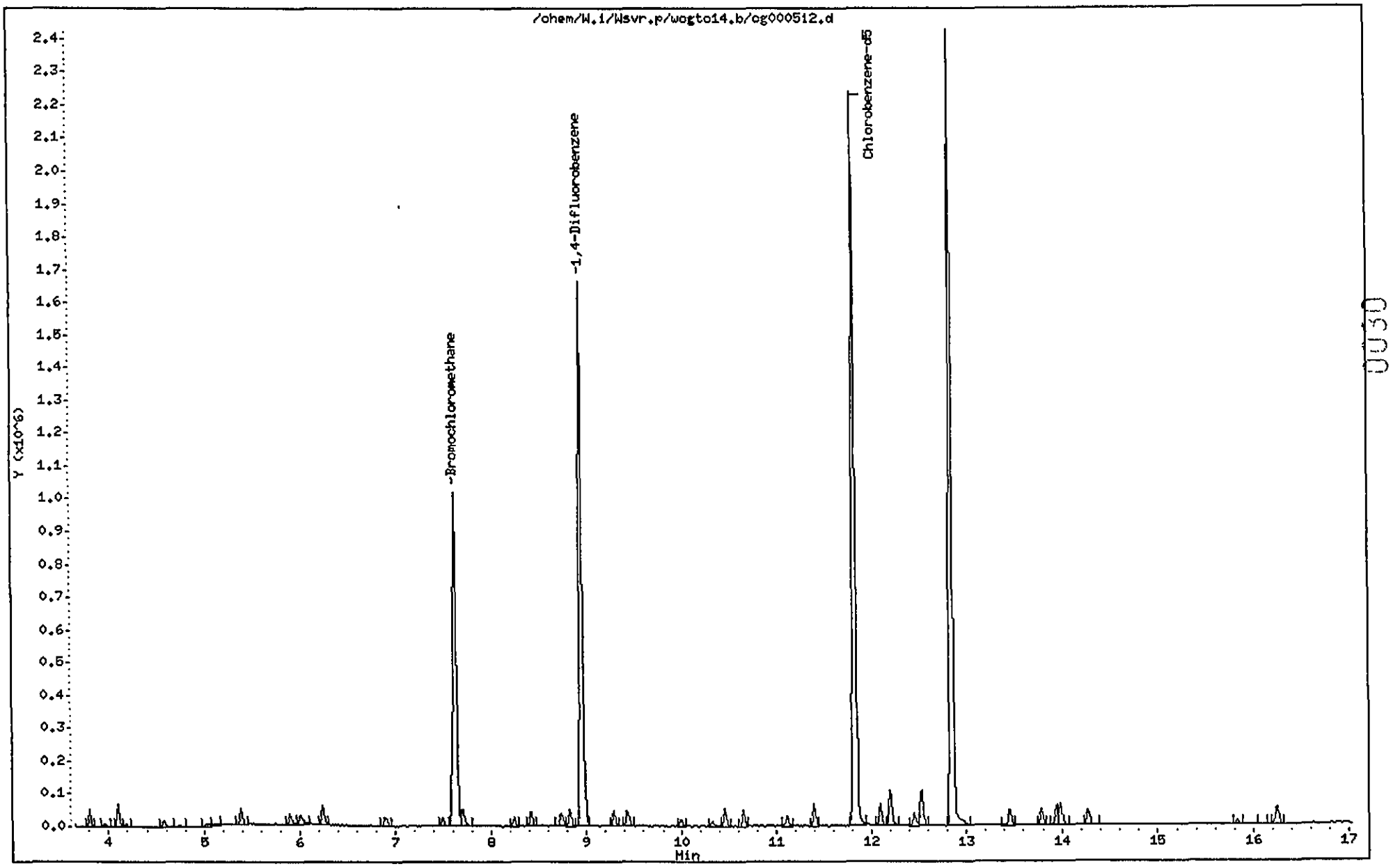
LAB FILE ID: RRF0.5=CG0005I2 RRF5 =CG005I2
RRF10 =CG010 RRF20 =CG020 RRF40 =CG040I2

COMPOUND		RRF0.5	RRF5	RRF10	RRF20	RRF40	$\overline{RRF}$	% RSD
Chloromethane	*	0.655	0.585	0.430	0.402	0.363	0.487	25.9*
Vinyl Chloride		0.550	0.599	0.493	0.440	0.401	0.497	16.2
Bromomethane		0.834	0.845	0.664	0.595	0.539	0.695	20.0
Chloroethane		0.397	0.407	0.304	0.285	0.259	0.330	20.4
Trichlorofluoromethane		2.801	2.911	2.029	1.866	1.880	2.297	22.4
Methylene Chloride		1.636	1.087	0.773	0.716	0.728	0.988	39.8
1,1-Dichloroethane	*	1.621	1.798	1.272	1.176	1.211	1.416	19.6*
cis-1,2-Dichloroethene		1.018	1.106	0.972	0.891	0.908	0.979	8.9
Chloroform		2.138	2.154	1.729	1.606	1.642	1.854	14.6
1,1,1-Trichloroethane		1.886	2.040	1.584	1.586	1.644	1.748	11.7
Carbon Tetrachloride		0.426	0.467	0.398	0.373	0.360	0.405	10.6
Benzene		0.509	0.547	0.505	0.436	0.409	0.481	11.8
1,2-Dichloroethane		1.435	1.476	1.204	1.136	1.204	1.291	11.9
Trichloroethene		0.262	0.276	0.250	0.211	0.196	0.239	14.2
1,2-Dichloropropane		0.206	0.210	0.199	0.143	0.137	0.179	19.9
cis-1,3-Dichloropropene		0.170	0.252	0.246	0.216	0.209	0.219	15.1
Toluene		0.292	0.387	0.363	0.344	0.368	0.351	10.4
trans-1,3-Dichloropropene		0.112	0.158	0.160	0.145	0.148	0.145	13.2
1,1,2-Trichloroethane		0.222	0.232	0.210	0.171	0.145	0.196	18.7
Tetrachloroethene		0.266	0.290	0.275	0.256	0.240	0.265	7.2
Chlorobenzene	*	0.553	0.513	0.466	0.444	0.418	0.479	11.3*
Ethylbenzene		0.714	0.917	0.825	0.792	0.772	0.804	9.3
Xylene (total)		0.272	0.321	0.289	0.284	0.296	0.292	6.2
Styrene		0.296	0.352	0.377	0.359	0.328	0.342	9.1
Xylene (m,p)		0.289	0.328	0.296	0.287	0.292	0.298	5.7
Xylene (o)		0.272	0.321	0.289	0.284	0.296	0.292	6.2
1,1,2,2-Tetrachloroethane		0.598	0.576	0.493	0.472	0.475	0.523	11.4
1,3-Dichlorobenzene		0.507	0.490	0.393	0.396	0.468	0.451	11.8
1,4-Dichlorobenzene		0.529	0.409	0.464	0.484	0.470	0.471	9.1
1,2-Dichlorobenzene		0.373	0.353	0.341	0.360	0.398	0.365	5.9

* Compounds with required minimum RRF and maximim %RSD values.
All other compounds must meet a minimim RRF of 0.010.

Data File: /ohem/W.i/Wsvr.p/wcgto14.b/cg000512.d
Date : 20-FEB-2001 13:51
Client ID: ASTD0005
Sample Info: ASTD0005;ASTD0005
Purge Volume: 200.0
Column phase: DB-1

Instrument: W.i
Operator: GMH
Column diameter: 0.35



STL Burlington

AIR TOXICS QUANTITATION REPORT

Data file : /chem/W.i/Wsvr.p/wcgto14.b/cg0005i2.d
Lab Smp Id: ASTD0005 Client Smp ID: ASTD0005
Inj Date : 20-FEB-2001 13:51
Operator : GMM Inst ID: W.i
Smp Info : ASTD0005;ASTD0005
Misc Info :
Comment :
Method : /chem/W.i/Wsvr.p/wcgto14.b/bto14a.m
Meth Date : 28-Feb-2001 13:33 mim Quant Type: ISTD
Cal Date : 20-FEB-2001 13:51 Cal File: cg0005i2.d
Als bottle: 3 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50
Processing Host: chemsvr4

Concentration Formula: Amt * DF * X* Uf/Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
X	200.00000	method volume factor
Uf	1.00000	ng unit correction factor
Vo	200.00000	Sample Volume purged (mL)

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	AMOUNTS ON-COL (ppbv)
1	Dichlorodifluoromethane	85	3.810	3.853	(0.500)	42006	0.50000	0.60
2	Chloromethane	50	3.969	4.011	(0.521)	10098	0.50000	0.63
3	Dichlorotetrafluoroethane	85	4.113	4.170	(0.540)	44758	0.50000	0.63
4	Vinyl Chloride	62	4.200	4.242	(0.551)	8493	0.50000	0.53
5	Bromomethane	94	4.575	4.631	(0.600)	12872	0.50000	0.57
6	Chloroethane	64	4.748	4.804	(0.623)	6130	0.50000	0.57
7	Trichlorofluoromethane	101	5.391	5.450	(0.707)	43204	0.50000	0.58
8	1,1-Dichloroethene	96	5.907	5.966	(0.775)	14656	0.50000	0.60
9	Methylene Chloride	49	6.013	6.057	(0.789)	25241	0.50000	0.78
10	Freon TF	101	6.241	6.285	(0.819)	29406	0.50000	0.53
11	1,1-Dichloroethane	63	6.893	6.953	(0.904)	25008	0.50000	0.55
12	cis-1,2-Dichloroethene	61	7.500	7.529	(0.984)	15703	0.50000	0.51
* 13	Bromochloromethane	128	7.622	7.666	(1.000)	308500	10.0000	(Q)
14	Chloroform	83	7.713	7.742	(1.012)	32977	0.50000	0.56

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	AMOUNTS ON-COL (ppbv)
	15 1,2-Dichloroethane	62	8.244	8.273	(1.082)	22130	0.50000	0.55
	16 1,1,1-Trichloroethane	97	8.426	8.455	(1.106)	29096	0.50000	0.53
	17 Benzene	78	8.745	8.774	(0.976)	36255	0.50000	0.51
	18 Carbon Tetrachloride	117	8.821	8.865	(0.985)	30361	0.50000	0.51
*	19 1,4-Difluorobenzene	114	8.957	8.986	(1.000)	1425281	10.0000	
	20 1,2-Dichloropropane	63	9.291	9.305	(1.037)	14654	0.50000	0.54(M)
	21 Trichloroethene	95	9.428	9.457	(1.053)	18657	0.50000	0.52
	24 1,1,2-Trichloroethane	83	10.460	10.474	(1.168)	15816	0.50000	0.53
*	28 Chlorobenzene-d5	117	11.825	11.839	(1.000)	1460413	10.0000	
	29 Chlorobenzene	112	11.856	11.870	(1.003)	40389	0.50000	0.56(Q)
	31 Xylene (m,p)	106	12.205	12.204	(1.032)	42205	1.00000	0.96
M	33 Xylene (total)	106				62104	0.50000	1.4
	34 1,1,2,2-Tetrachloroethane	83	12.523	12.522	(1.059)	43682	0.50000	0.56
	38 1,3-Dichlorobenzene	146	13.935	13.934	(1.178)	37030	0.50000	0.57
	39 1,4-Dichlorobenzene	146	13.980	13.979	(1.182)	38633	0.50000	0.56
	40 1,2-Dichlorobenzene	146	14.284	14.267	(1.208)	27264	0.50000	0.52
	41 1,2,4-Trichlorobenzene	180	15.832	15.831	(1.339)	5055	0.50000	0.63
	42 Hexachlorobutadiene	225	16.257	16.255	(1.375)	12282	0.50000	0.69

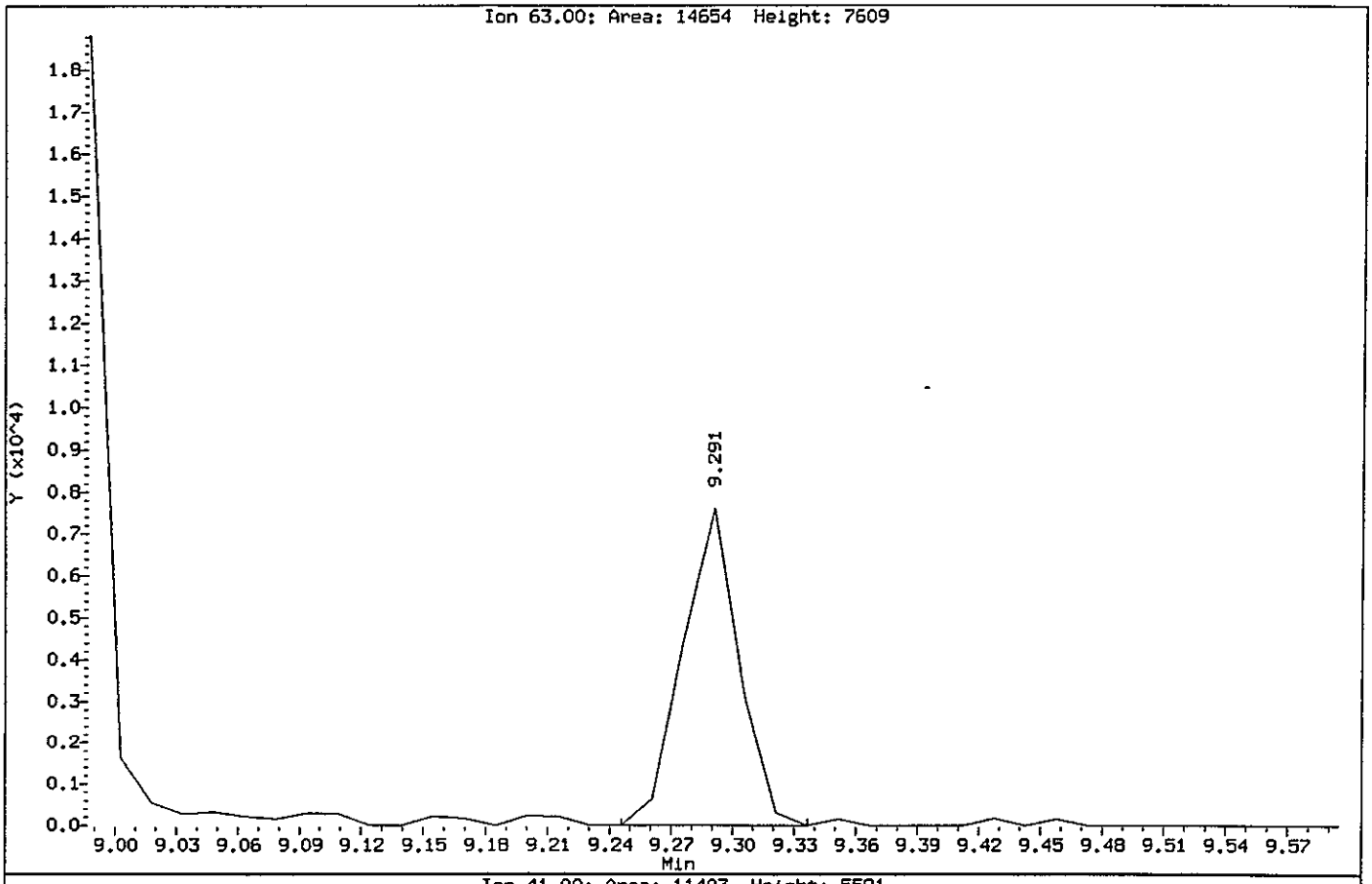
QC Flag Legend

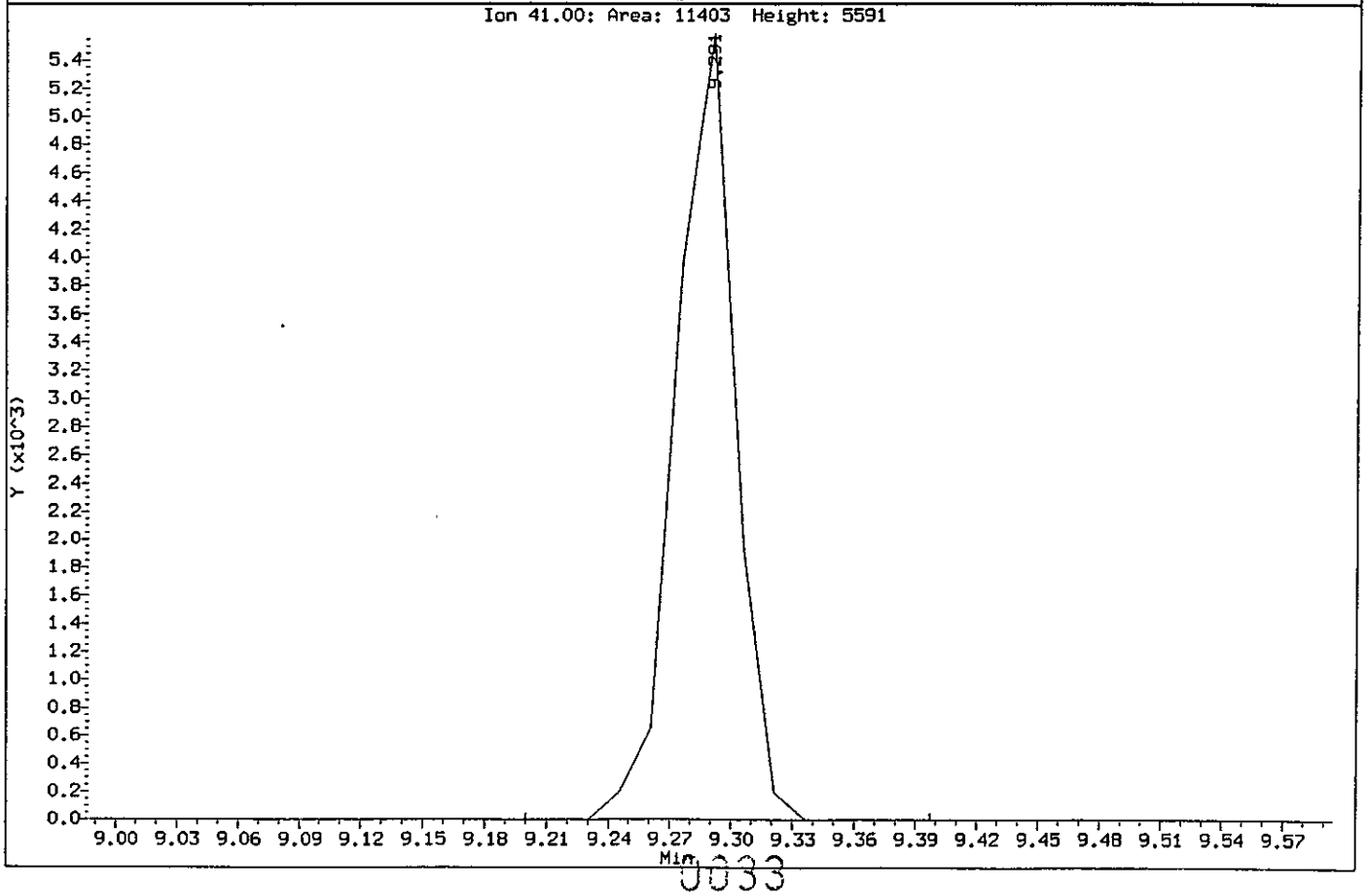
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

MM
02/28/2001

Data File: /chem/W.i/Wsvr.p/wcgto14.b/cg000512.d
Injection Date: 20-FEB-2001 13:51
Instrument: W.i
Client Sample ID: ASTD0005

Compound: 1,2-Dichloropropane
CAS Number: 78-87-5

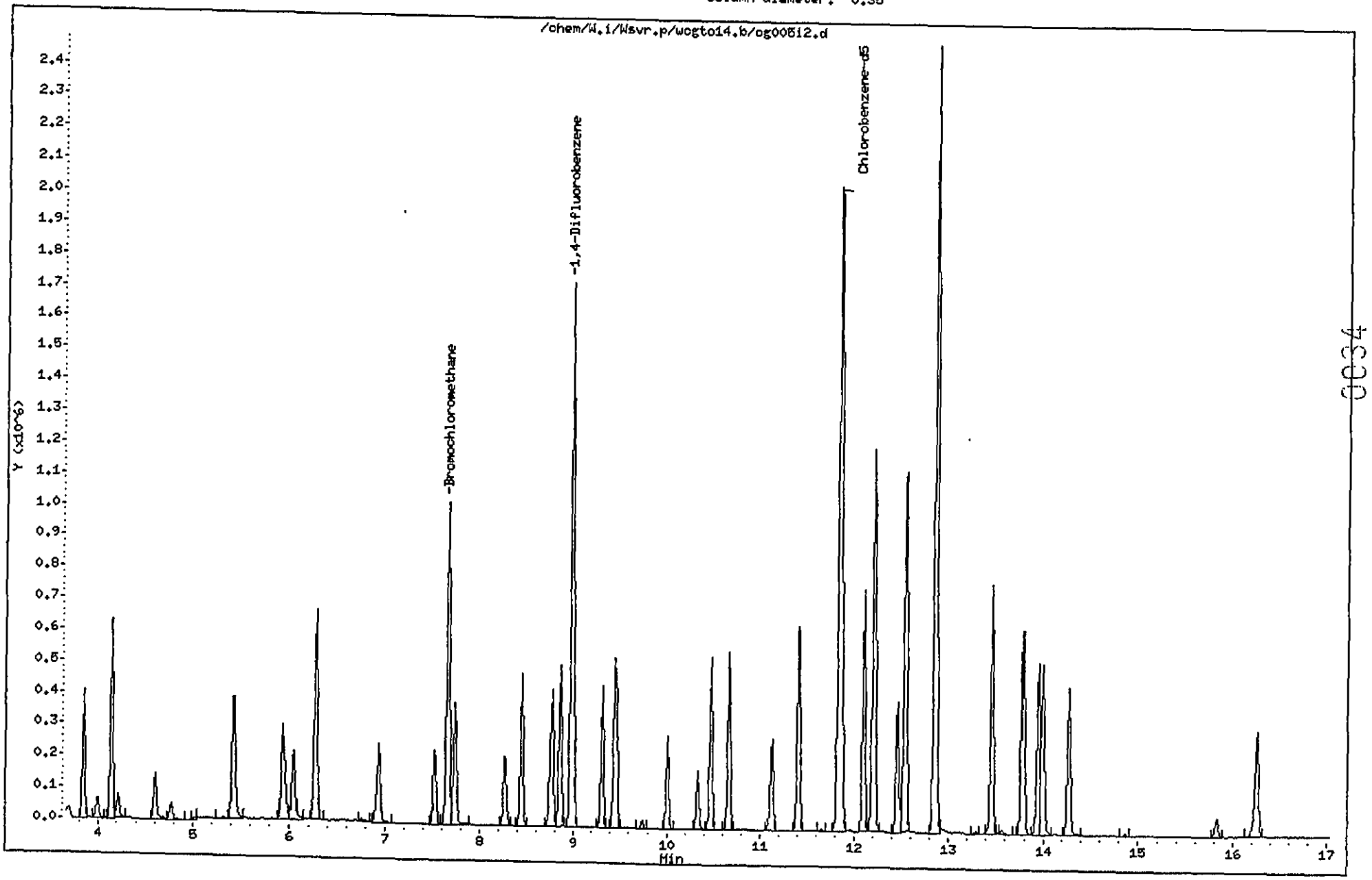




Data File: /chem/W.i/Wsvr.p/wcgto14.b/cg00512.d
Date : 20-FEB-2001 13:17
Client ID: ASTD005
Sample Info: ASTD005;ASTD005
Purge Volume: 200.0
Column phase: DB-1

Instrument: W.i

Operator: GMM
Column diameter: 0.35



GC34

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AIR TOXICS QUANTITATION REPORT

Data file : /chem/W.i/Wsvr.p/wcgto14.b/cg005i2.d
Lab Smp Id: ASTD005 Client Smp ID: ASTD005
Inj Date : 20-FEB-2001 13:17
Operator : GMM Inst ID: W.i
Smp Info : ASTD005;ASTD005
Misc Info :
Comment :
Method : /chem/W.i/Wsvr.p/wcgto14.b/bto14a.m
Meth Date : 28-Feb-2001 13:33 mim Quant Type: ISTD
Cal Date : 20-FEB-2001 13:17 Cal File: cg005i2.d
Als bottle: 2 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50
Processing Host: chemsvr4

Concentration Formula: Amt * DF * X* Uf/Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
X	200.00000	method volume factor
Uf	1.00000	ng unit correction factor
Vo	200.00000	Sample Volume purged (mL)

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	AMOUNTS ON-COL (ppbv)
1	Dichlorodifluoromethane	85	3.839	3.853	(0.502)	395806	5.00000	6.4
2	Chloromethane	50	3.983	4.011	(0.521)	85441	5.00000	6.2
3	Dichlorotetrafluoroethane	85	4.142	4.170	(0.541)	380657	5.00000	6.2
4	Vinyl Chloride	62	4.214	4.242	(0.551)	87429	5.00000	5.9
5	Bromomethane	94	4.603	4.631	(0.602)	123351	5.00000	6.0
6	Chloroethane	64	4.776	4.804	(0.624)	59385	5.00000	6.1
7	Trichlorofluoromethane	101	5.436	5.450	(0.710)	425031	5.00000	6.4
8	1,1-Dichloroethene	96	5.937	5.966	(0.776)	134958	5.00000	6.3
9	Methylene Chloride	49	6.043	6.057	(0.790)	158676	5.00000	6.3
10	Freon TF	101	6.271	6.285	(0.820)	326610	5.00000	6.4
11	1,1-Dichloroethane	63	6.924	6.953	(0.905)	262461	5.00000	6.4
12	cis-1,2-Dichloroethene	61	7.515	7.529	(0.982)	161420	5.00000	5.6
* 13	Bromochloromethane	128	7.652	7.666	(1.000)	291969	10.0000	(Q)
14	Chloroform	83	7.728	7.742	(1.010)	314455	5.00000	5.9

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	AMOUNTS ON-COL (ppbv)
15	1,2-Dichloroethane	62	8.259	8.273	(1.079)	215427	5.00000	5.8
16	1,1,1-Trichloroethane	97	8.441	8.455	(1.103)	297875	5.00000	5.9
17	Benzene	78	8.760	8.774	(0.976)	364554	5.00000	5.5
18	Carbon Tetrachloride	117	8.851	8.865	(0.986)	311421	5.00000	5.6
* 19	1,4-Difluorobenzene	114	8.972	8.986	(1.000)	1333105	10.0000	
20	1,2-Dichloropropane	63	9.306	9.305	(1.037)	139770	5.00000	5.7
21	Trichloroethene	95	9.443	9.457	(1.052)	183699	5.00000	5.6
22	cis-1,3-Dichloropropene	75	10.004	10.018	(1.115)	168182	5.00000	5.3
23	trans-1,3-Dichloropropene	75	10.338	10.352	(1.152)	105452	5.00000	5.1
24	1,1,2-Trichloroethane	83	10.475	10.474	(1.167)	154320	5.00000	5.7
25	Toluene	92	10.657	10.671	(0.900)	274927	5.00000	5.3
26	1,2-Dibromoethane	107	11.127	11.126	(0.940)	237966	5.00000	5.3
27	Tetrachloroethene	166	11.416	11.414	(0.964)	206197	5.00000	5.3
* 28	Chlorobenzene-d5	117	11.841	11.839	(1.000)	1419922	10.0000	
29	Chlorobenzene	112	11.871	11.870	(1.003)	364405	5.00000	5.4
30	Ethylbenzene	91	12.099	12.097	(1.022)	650801	5.00000	5.4
31	Xylene (m,p)	106	12.205	12.204	(1.031)	466308	10.0000	11
32	Styrene	104	12.463	12.462	(1.053)	250190	5.00000	4.8
M 33	Xylene (total)	106				694292	5.00000	16
34	1,1,2,2-Tetrachloroethane	83	12.523	12.522	(1.058)	409271	5.00000	5.6
35	Xylene (o)	106	12.539	12.537	(1.059)	227984	5.00000	5.4
36	1,3,5-Trimethylbenzene	105	13.449	13.448	(1.136)	509015	5.00000	5.4
37	1,2,4-Trimethylbenzene	105	13.783	13.782	(1.164)	458132	5.00000	5.2
38	1,3-Dichlorobenzene	146	13.935	13.934	(1.177)	347799	5.00000	5.7
39	1,4-Dichlorobenzene	146	13.980	13.979	(1.181)	290701	5.00000	4.5
40	1,2-Dichlorobenzene	146	14.269	14.267	(1.205)	250915	5.00000	5.0
41	1,2,4-Trichlorobenzene	180	15.832	15.831	(1.337)	24264	5.00000	3.4
42	Hexachlorobutadiene	225	16.257	16.255	(1.373)	80132	5.00000	5.3

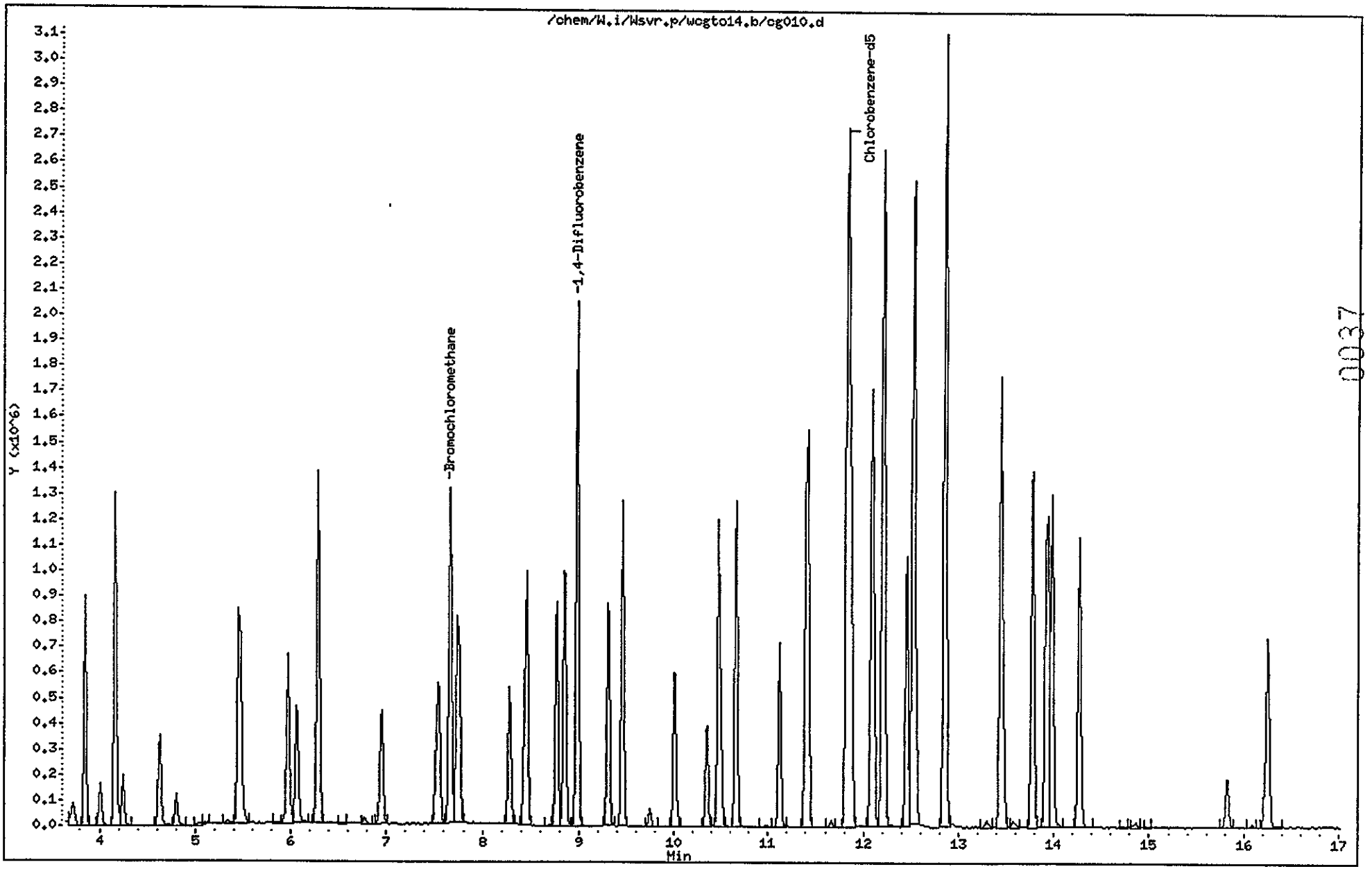
QC Flag Legend

Q - Qualifier signal failed the ratio test.

Data File: /chem/W.i/Wsvr.p/wcgto14.b/cg010.d
Date : 20-FEB-2001 11:29
Client ID: ASTD010
Sample Info: ASTD010;ASTD010
Purge Volume: 200.0
Column phase: DB-1

Instrument: W.i

Operator: GHM
Column diameter: 0.35



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AIR TOXICS QUANTITATION REPORT

Data file : /chem/W.i/Wsvr.p/wcgto14.b/cg010.d
Lab Smp Id: ASTD010 Client Smp ID: ASTD010
Inj Date : 20-FEB-2001 11:29
Operator : GMM Inst ID: W.i
Smp Info : ASTD010;ASTD010
Misc Info :
Comment :
Method : /chem/W.i/Wsvr.p/wcgto14.b/bto14a.m
Meth Date : 28-Feb-2001 13:32 mim Quant Type: ISTD
Cal Date : 20-FEB-2001 11:29 Cal File: cg010.d
Als bottle: 1 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50
Processing Host: chemsvr4

Concentration Formula: Amt * DF * X* Uf/Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
X	200.00000	method volume factor
Uf	1.00000	ng unit correction factor
Vo	200.00000	Sample Volume purged (mL)

Cpnd Variable Local Compound Variable

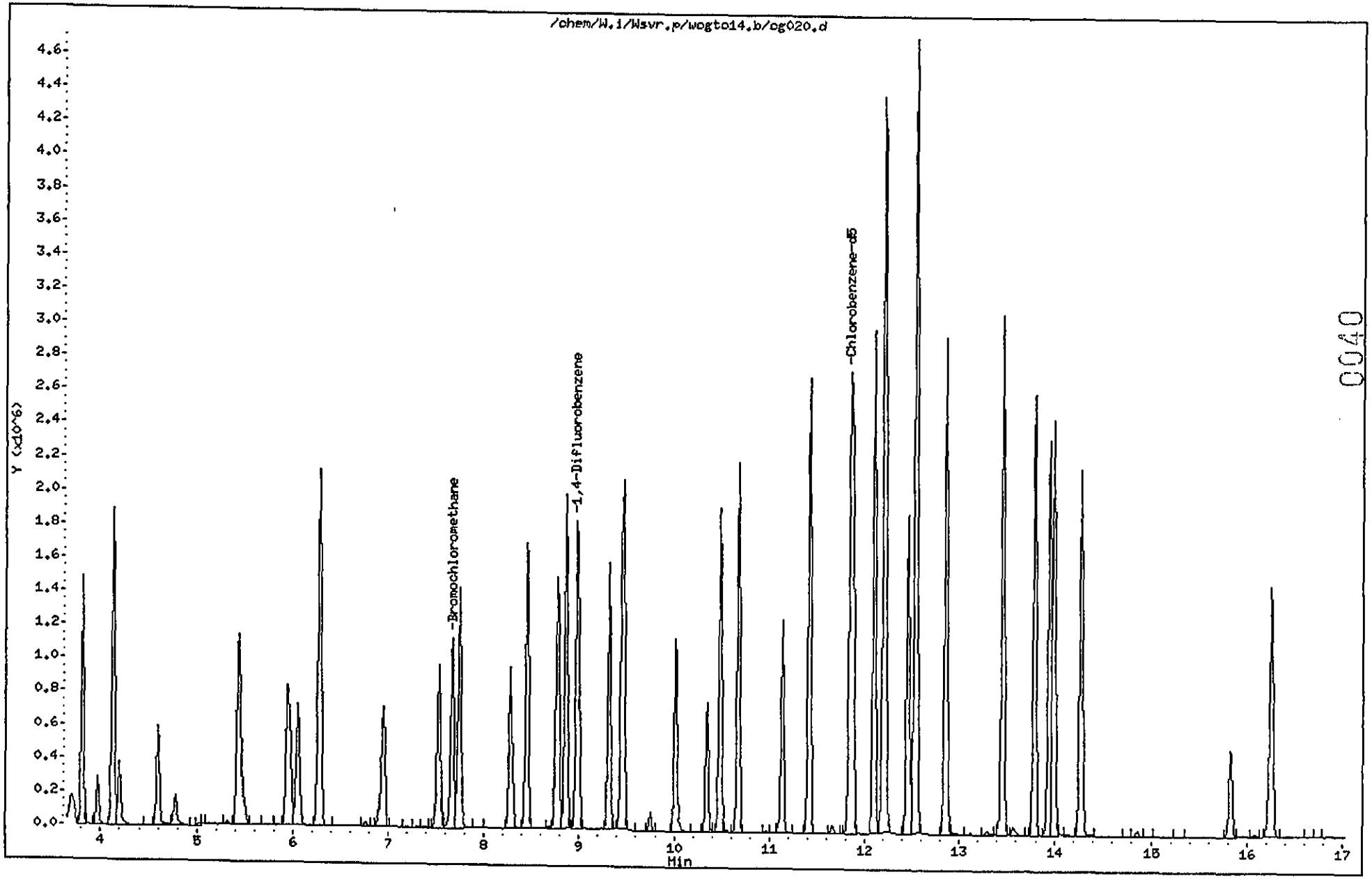
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	AMOUNTS ON-COL (ppbv)
1	Dichlorodifluoromethane	85	3.853	3.853	(0.503)	799224	10.0000	10
2	Chloromethane	50	4.011	4.011	(0.523)	177650	10.0000	10
3	Dichlorotetrafluoroethane	85	4.170	4.170	(0.544)	812943	10.0000	10
4	Vinyl Chloride	62	4.242	4.242	(0.553)	203714	10.0000	10
5	Bromomethane	94	4.631	4.631	(0.604)	274535	10.0000	10
6	Chloroethane	64	4.804	4.804	(0.627)	125668	10.0000	10
7	Trichlorofluoromethane	101	5.450	5.450	(0.711)	839193	10.0000	10
8	1,1-Dichloroethene	96	5.966	5.966	(0.778)	275662	10.0000	10
9	Methylene Chloride	49	6.057	6.057	(0.790)	319815	10.0000	10
10	Freon TF	101	6.285	6.285	(0.820)	655517	10.0000	10
11	1,1-Dichloroethane	63	6.953	6.953	(0.907)	526037	10.0000	10
12	cis-1,2-Dichloroethene	61	7.529	7.529	(0.982)	402091	10.0000	10
* 13	Bromochloromethane	128	7.666	7.666	(1.000)	413516	10.0000	
14	Chloroform	83	7.742	7.742	(1.010)	715012	10.0000	10

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	AMOUNTS ON-COL (ppbv)
15	1,2-Dichloroethane	62	8.273	8.273	(1.079)	497687	10.0000	10
16	1,1,1-Trichloroethane	97	8.455	8.455	(1.103)	654886	10.0000	10
17	Benzene	78	8.774	8.774	(0.976)	852870	10.0000	10
18	Carbon Tetrachloride	117	8.865	8.865	(0.986)	673263	10.0000	10
* 19	1,4-Difluorobenzene	114	8.986	8.986	(1.000)	1690071	10.0000	
20	1,2-Dichloropropane	63	9.305	9.305	(1.035)	337013	10.0000	10
21	Trichloroethene	95	9.457	9.457	(1.052)	421760	10.0000	10
22	cis-1,3-Dichloropropene	75	10.018	10.018	(1.115)	415539	10.0000	10
23	trans-1,3-Dichloropropene	75	10.352	10.352	(1.152)	269853	10.0000	10
24	1,1,2-Trichloroethane	83	10.474	10.474	(1.165)	354350	10.0000	10
25	Toluene	92	10.671	10.671	(0.901)	656043	10.0000	10
26	1,2-Dibromoethane	107	11.126	11.126	(0.940)	558164	10.0000	10
27	Tetrachloroethene	166	11.414	11.414	(0.964)	497211	10.0000	10
* 28	Chlorobenzene-d5	117	11.839	11.839	(1.000)	1808104	10.0000	
29	Chlorobenzene	112	11.870	11.870	(1.003)	843051	10.0000	10
30	Ethylbenzene	91	12.097	12.097	(1.022)	1491636	10.0000	10
31	Xylene (m,p)	106	12.204	12.204	(1.031)	1070372	20.0000	20
32	Styrene	104	12.462	12.462	(1.053)	681164	10.0000	10
M 33	Xylene (total)	106				1592596	10.0000	30
34	1,1,2,2-Tetrachloroethane	83	12.522	12.522	(1.058)	891964	10.0000	10
35	Xylene (o)	106	12.537	12.537	(1.059)	522224	10.0000	10
36	1,3,5-Trimethylbenzene	105	13.448	13.448	(1.136)	1171093	10.0000	10
37	1,2,4-Trimethylbenzene	105	13.782	13.782	(1.164)	1110314	10.0000	10
38	1,3-Dichlorobenzene	146	13.934	13.934	(1.177)	710065	10.0000	10
39	1,4-Dichlorobenzene	146	13.979	13.979	(1.181)	838641	10.0000	10
40	1,2-Dichlorobenzene	146	14.267	14.267	(1.205)	616020	10.0000	10
41	1,2,4-Trichlorobenzene	180	15.831	15.831	(1.337)	85226	10.0000	10
42	Hexachlorobutadiene	225	16.255	16.255	(1.373)	177881	10.0000	10

Data File: /chem/W.i/Wsvr.p/wogto14.b/og020.d
Date : 20-FEB-2001 12:03
Client ID: ASTD020
Sample Info: ASTD020;ASTD020
Purge Volume: 200.0
Column phase: DB-1

Instrument: W.i

Operator: GHM
Column diameter: 0.35



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AIR TOXICS QUANTITATION REPORT

Data file : /chem/W.i/Wsvr.p/wcgto14.b/cg020.d
Lab Smp Id: ASTD020 Client Smp ID: ASTD020
Inj Date : 20-FEB-2001 12:03
Operator : GMM Inst ID: W.i
Smp Info : ASTD020;ASTD020
Misc Info :
Comment :
Method : /chem/W.i/Wsvr.p/wcgto14.b/bto14a.m
Meth Date : 28-Feb-2001 13:32 mim Quant Type: ISTD
Cal Date : 20-FEB-2001 12:03 Cal File: cg020.d
Als bottle: 4 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50
Processing Host: chemsvr4

Concentration Formula: Amt * DF * X* Uf/Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
X	200.00000	method volume factor
Uf	1.00000	ng unit correction factor
Vo	200.00000	Sample Volume purged (mL)

Cpnd Variable Local Compound Variable

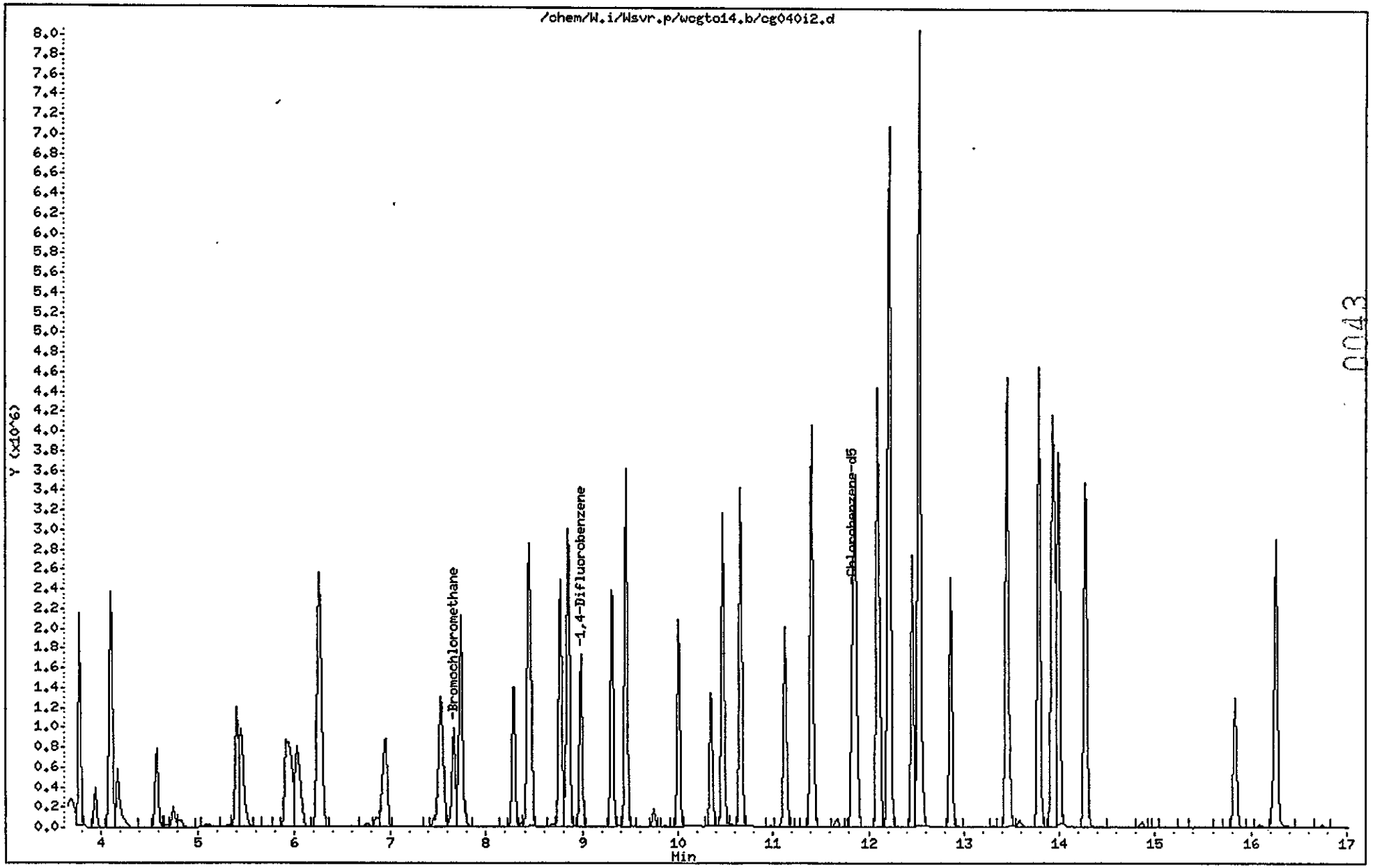
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	AMOUNTS ON-COL (ppbv)
1	Dichlorodifluoromethane	85	3.810	3.853	(0.497)	1345244	20.0000	19
2	Chloromethane	50	3.969	4.011	(0.518)	318975	20.0000	19
3	Dichlorotetrafluoroethane	85	4.127	4.170	(0.538)	1379303	20.0000	19
4	Vinyl Chloride	62	4.199	4.242	(0.548)	348916	20.0000	19
5	Bromomethane	94	4.589	4.631	(0.598)	472257	20.0000	19
6	Chloroethane	64	4.776	4.804	(0.623)	226058	20.0000	19
7	Trichlorofluoromethane	101	5.436	5.450	(0.709)	1481120	20.0000	19
8	1,1-Dichloroethene	96	5.952	5.966	(0.776)	487435	20.0000	19
9	Methylene Chloride	49	6.043	6.057	(0.788)	568595	20.0000	19
10	Freon TF	101	6.271	6.285	(0.818)	1151989	20.0000	19
11	1,1-Dichloroethane	63	6.938	6.953	(0.905)	933476	20.0000	19
12	cis-1,2-Dichloroethene	61	7.530	7.529	(0.982)	707391	20.0000	19
* 13	Bromochloromethane	128	7.667	7.666	(1.000)	396764	10.0000	
14	Chloroform	83	7.743	7.742	(1.010)	1274331	20.0000	19

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	AMOUNTS ON-COL (ppbv)
	15 1,2-Dichloroethane	62	8.274	8.273	(1.079)	901914	20.0000	19
	16 1,1,1-Trichloroethane	97	8.441	8.455	(1.101)	1258550	20.0000	20
	17 Benzene	78	8.760	8.774	(0.975)	1505064	20.0000	18
	18 Carbon Tetrachloride	117	8.851	8.865	(0.985)	1288385	20.0000	19
*	19 1,4-Difluorobenzene	114	8.987	8.986	(1.000)	1725572	10.0000	
	20 1,2-Dichloropropane	63	9.306	9.305	(1.035)	494504	20.0000	17
	21 Trichloroethene	95	9.458	9.457	(1.052)	729693	20.0000	18
	22 cis-1,3-Dichloropropene	75	10.004	10.018	(1.113)	745945	20.0000	19
	23 trans-1,3-Dichloropropene	75	10.353	10.352	(1.152)	501155	20.0000	19
	24 1,1,2-Trichloroethane	83	10.474	10.474	(1.165)	590168	20.0000	18
	25 Toluene	92	10.672	10.671	(0.901)	1114258	20.0000	19
	26 1,2-Dibromoethane	107	11.127	11.126	(0.940)	965331	20.0000	20
	27 Tetrachloroethene	166	11.415	11.414	(0.964)	831268	20.0000	19
*	28 Chlorobenzene-d5	117	11.840	11.839	(1.000)	1620724	10.0000	
	29 Chlorobenzene	112	11.871	11.870	(1.003)	1439687	20.0000	20
	30 Ethylbenzene	91	12.098	12.097	(1.022)	2568828	20.0000	20
	31 Xylene (m,p)	106	12.204	12.204	(1.031)	1860497	40.0000	39
	32 Styrene	104	12.462	12.462	(1.053)	1164247	20.0000	20
M	33 Xylene (total)	106				2780209	20.0000	60
	34 1,1,2,2-Tetrachloroethane	83	12.523	12.522	(1.058)	1529287	20.0000	20
	35 Xylene (o)	106	12.538	12.537	(1.059)	919712	20.0000	20
	36 1,3,5-Trimethylbenzene	105	13.449	13.448	(1.136)	2032437	20.0000	20
	37 1,2,4-Trimethylbenzene	105	13.783	13.782	(1.164)	1970603	20.0000	20
	38 1,3-Dichlorobenzene	146	13.934	13.934	(1.177)	1283976	20.0000	20
	39 1,4-Dichlorobenzene	146	13.980	13.979	(1.181)	1570547	20.0000	20
	40 1,2-Dichlorobenzene	146	14.268	14.267	(1.205)	1168005	20.0000	20
	41 1,2,4-Trichlorobenzene	180	15.831	15.831	(1.337)	225232	20.0000	24
	42 Hexachlorobutadiene	225	16.256	16.255	(1.373)	354204	20.0000	21

Data File: /chem/W.i/Wsvr.p/wcgto14.b/cg040i2.d
Date : 20-FEB-2001 14:27
Client ID: ASTD040
Sample Info: ASTD040;ASTD040
Purge Volume: 200.0
Column phase: DB-1

Instrument: W.i

Operator: GHM
Column diameter: 0.35



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AIR TOXICS QUANTITATION REPORT

Data file : /chem/W.i/Wsvr.p/wcgto14.b/cg040i2.d
Lab Smp Id: ASTD040 Client Smp ID: ASTD040
Inj Date : 20-FEB-2001 14:27
Operator : GMM Inst ID: W.i
Smp Info : ASTD040;ASTD040
Misc Info :
Comment :
Method : /chem/W.i/Wsvr.p/wcgto14.b/bto14a.m
Meth Date : 28-Feb-2001 13:33 mim Quant Type: ISTD
Cal Date : 20-FEB-2001 14:27 Cal File: cg040i2.d
Als bottle: 5 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50
Processing Host: chemsvr4

Concentration Formula: Amt * DF * X* Uf/Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
X	200.00000	method volume factor
Uf	1.00000	ng unit correction factor
Vo	200.00000	Sample Volume purged (mL)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	AMOUNTS ON-COL (ppbv)
1 Dichlorodifluoromethane	85	3.770	3.853	(0.492)	1816305	38.0000	27
2 Chloromethane	50	3.943	4.011	(0.514)	464632	40.0000	30
3 Dichlorotetrafluoroethane	85	4.102	4.170	(0.535)	2013448	40.0000	29(M)
4 Vinyl Chloride	62	4.174	4.242	(0.544)	512621	40.0000	32
5 Bromomethane	94	4.578	4.631	(0.597)	689188	40.0000	31(M)
6 Chloroethane	64	4.751	4.804	(0.620)	331680	40.0000	31(M)
7 Trichlorofluoromethane	101	5.406	5.450	(0.705)	2404708	40.0000	33(M)
8 1,1-Dichloroethene	96	5.937	5.966	(0.774)	781277	40.0000	32
9 Methylene Chloride	49	6.028	6.057	(0.786)	930733	40.0000	29
10 Freon TF	101	6.256	6.285	(0.816)	1857215	40.0000	34
11 1,1-Dichloroethane	63	6.954	6.953	(0.907)	1548789	40.0000	34
12 cis-1,2-Dichloroethene	61	7.530	7.529	(0.982)	1162080	40.0000	37(M)
* 13 Bromochloromethane	128	7.667	7.666	(1.000)	319808	10.0000	
14 Chloroform	83	7.743	7.742	(1.010)	2099960	40.0000	35

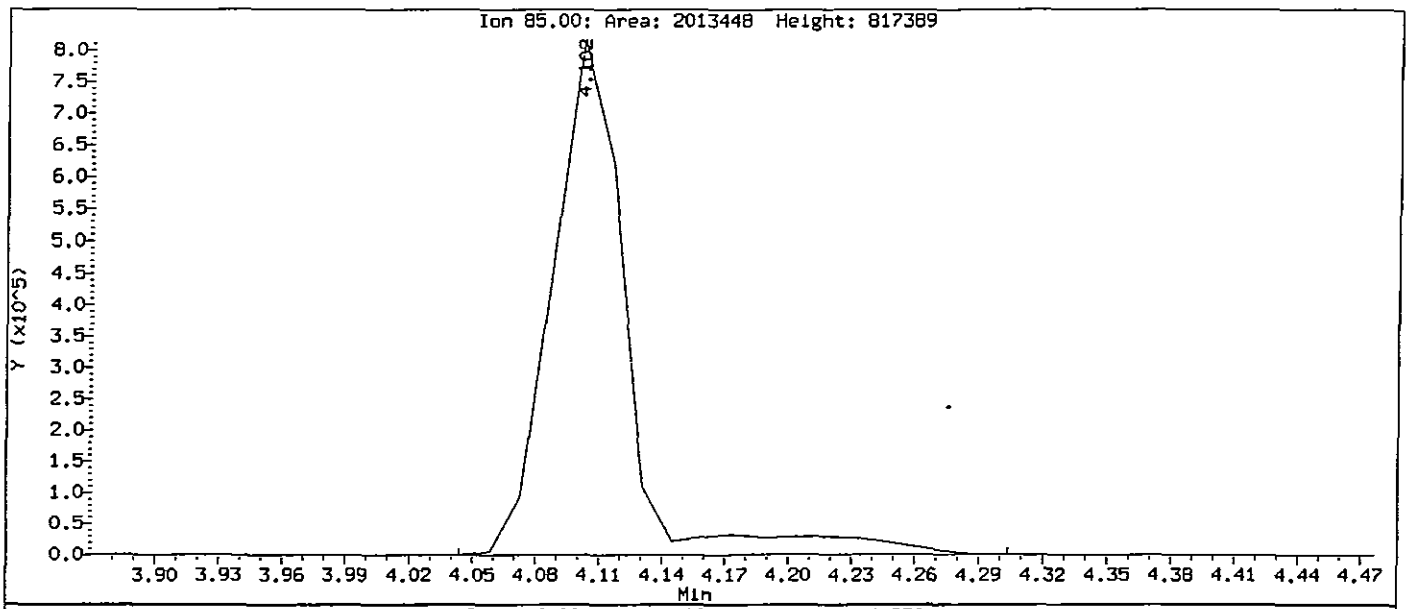
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	AMOUNTS ON-COL (ppbv)
	15 1,2-Dichloroethane	62	8.289	8.273	(1.081)	1540243	40.0000	37
	16 1,1,1-Trichloroethane	97	8.456	8.455	(1.103)	2103159	40.0000	38
	17 Benzene	78	8.775	8.774	(0.976)	2489844	40.0000	34
	18 Carbon Tetrachloride	117	8.851	8.865	(0.985)	2191688	40.0000	36
*	19 1,4-Difluorobenzene	114	8.987	8.986	(1.000)	1521323	10.0000	
	20 1,2-Dichloropropane	63	9.306	9.305	(1.035)	836098	40.0000	31
	21 Trichloroethene	95	9.458	9.457	(1.052)	1190585	40.0000	33
	22 cis-1,3-Dichloropropene	75	10.004	10.018	(1.113)	1273067	40.0000	38
	23 trans-1,3-Dichloropropene	75	10.338	10.352	(1.150)	902592	40.0000	41(A)
	24 1,1,2-Trichloroethane	83	10.474	10.474	(1.165)	880262	40.0000	30
	25 Toluene	92	10.656	10.671	(0.900)	1813369	40.0000	42(A)
	26 1,2-Dibromoethane	107	11.127	11.126	(0.940)	1421987	40.0000	38
	27 Tetrachloroethene	166	11.415	11.414	(0.964)	1181587	40.0000	36
*	28 Chlorobenzene-d5	117	11.840	11.839	(1.000)	1233232	10.0000	
	29 Chlorobenzene	112	11.871	11.870	(1.003)	2062839	40.0000	35
	30 Ethylbenzene	91	12.098	12.097	(1.022)	3808982	40.0000	38
	31 Xylene (m,p)	106	12.220	12.204	(1.032)	2881112	80.0000	78
	32 Styrene	104	12.462	12.462	(1.053)	1617495	40.0000	38
M	33 Xylene (total)	106				4342379	40.0000	120(A)
	34 1,1,2,2-Tetrachloroethane	83	12.538	12.522	(1.059)	2344631	40.0000	36
	35 Xylene (o)	106	12.538	12.537	(1.059)	1461267	40.0000	40(A)
	36 1,3,5-Trimethylbenzene	105	13.464	13.448	(1.137)	3244916	40.0000	42(A)
	37 1,2,4-Trimethylbenzene	105	13.783	13.782	(1.164)	3174006	40.0000	42(A)
	38 1,3-Dichlorobenzene	146	13.934	13.934	(1.177)	2308461	40.0000	42(A)
	39 1,4-Dichlorobenzene	146	13.995	13.979	(1.182)	2319991	40.0000	40
	40 1,2-Dichlorobenzene	146	14.283	14.267	(1.206)	1961819	40.0000	44(A)
	41 1,2,4-Trichlorobenzene	180	15.831	15.831	(1.337)	508914	40.0000	64(A)
	42 Hexachlorobutadiene	225	16.256	16.255	(1.373)	656131	40.0000	43(A)

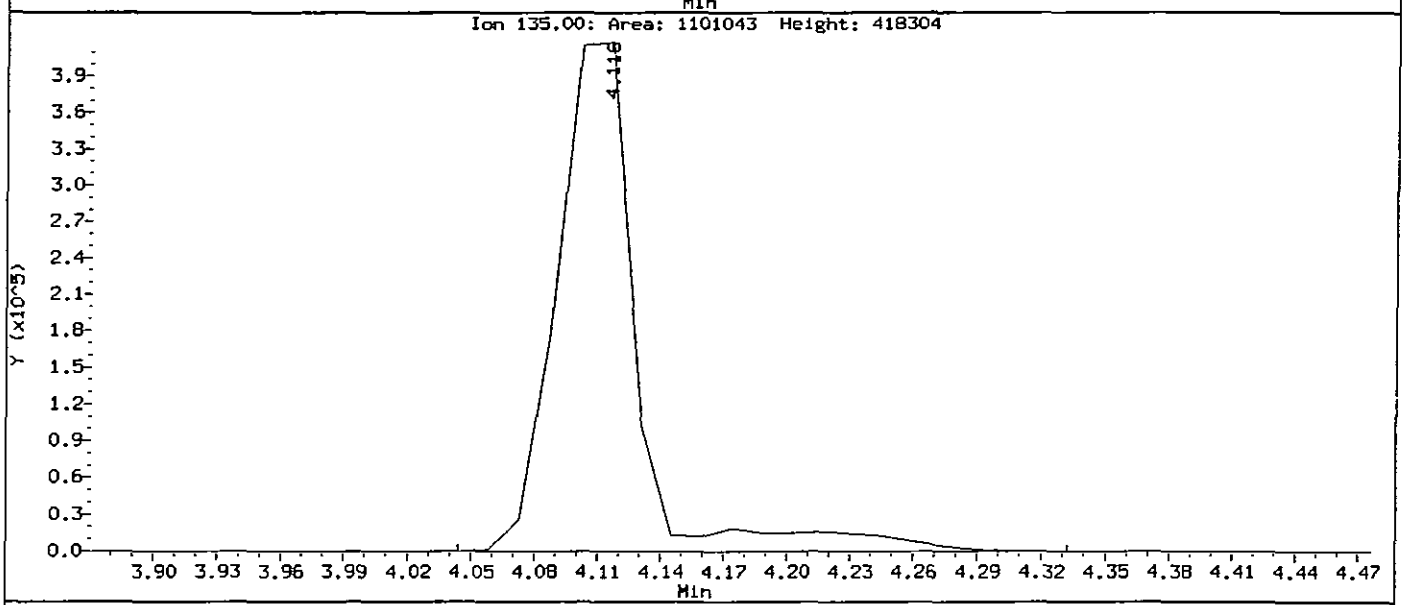
QC Flag Legend

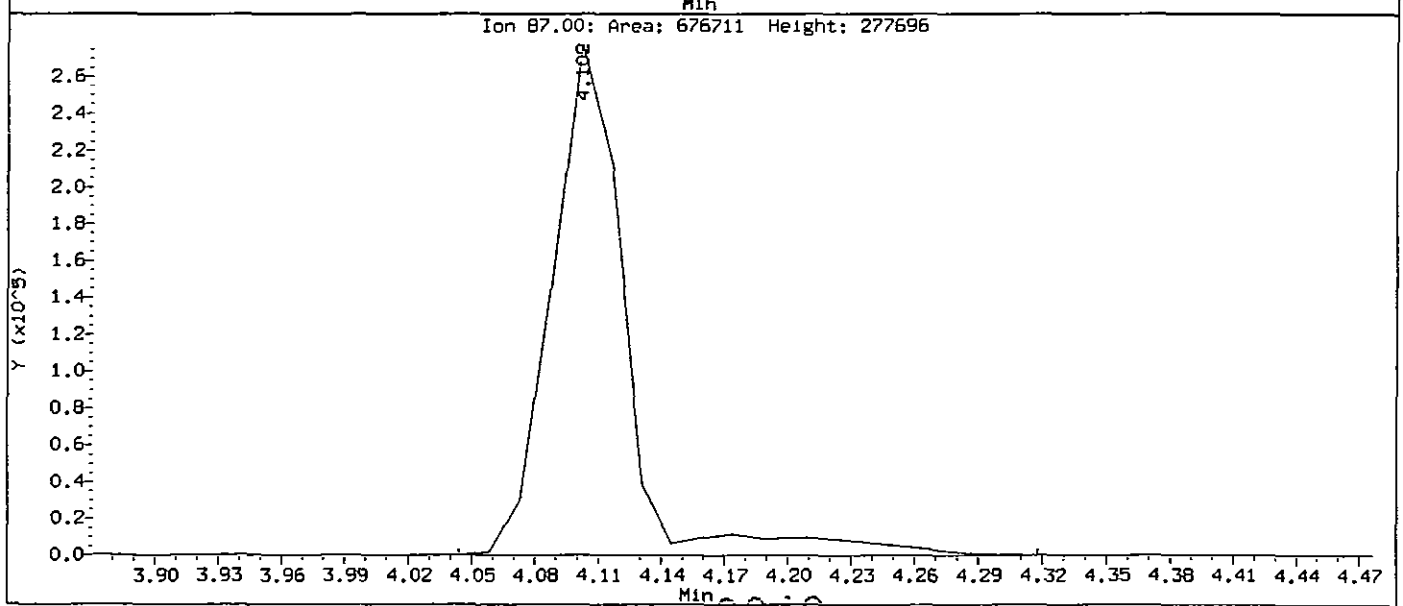
A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.

Data File: /chem/W.i/Wsvr.p/wcgto14.b/cg04012.d
Injection Date: 20-FEB-2001 14:27
Instrument: W.i
Client Sample ID: ASTD040

Compound: Dichlorotetrafluoroethane
CAS Number: 76-14-2

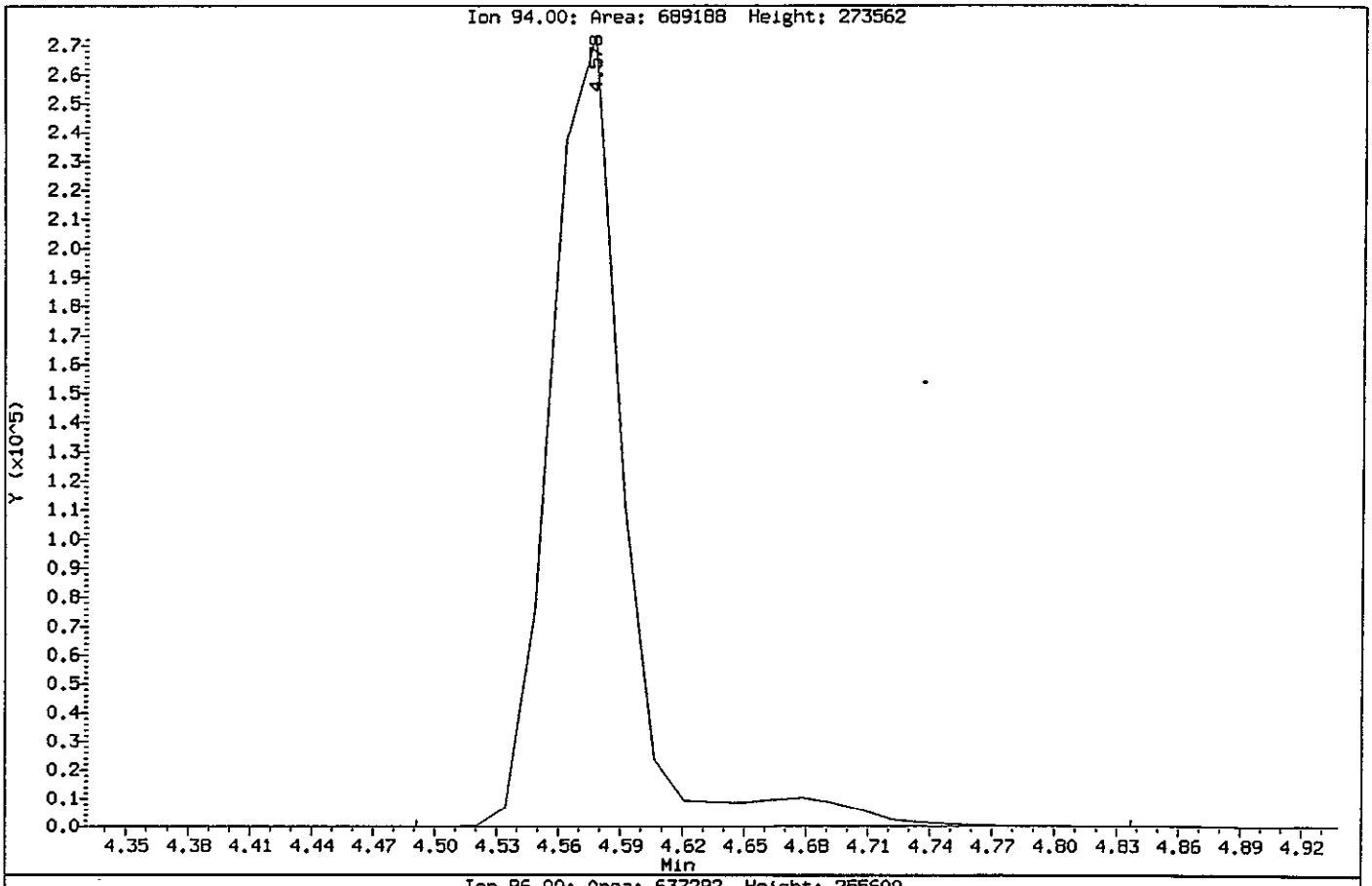


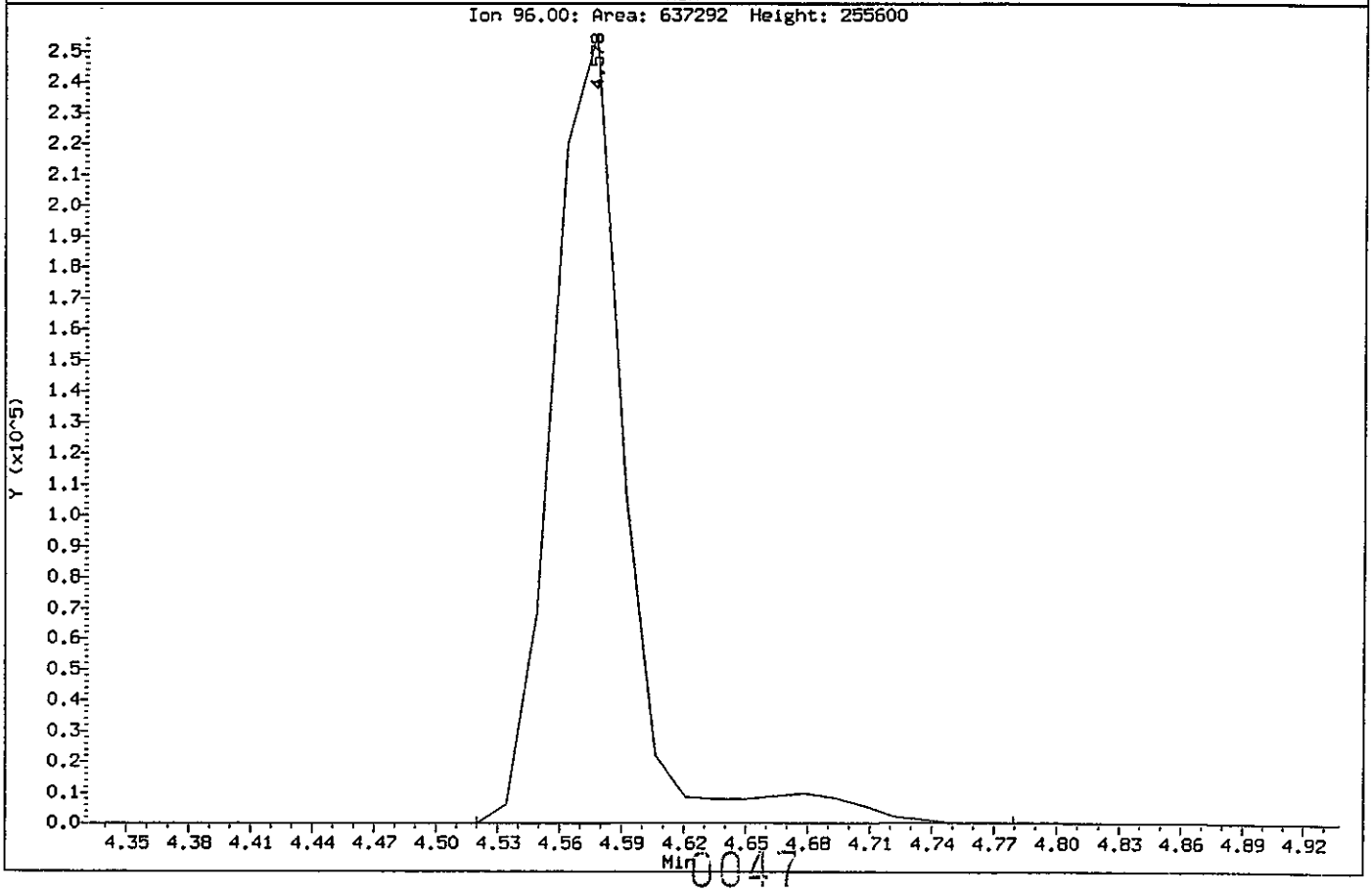




Data File: /chem/W.i/Wsvr.p/wcgto14.b/cg040i2.d
Injection Date: 20-FEB-2001 14:27
Instrument: W.i
Client Sample ID: ASTD040

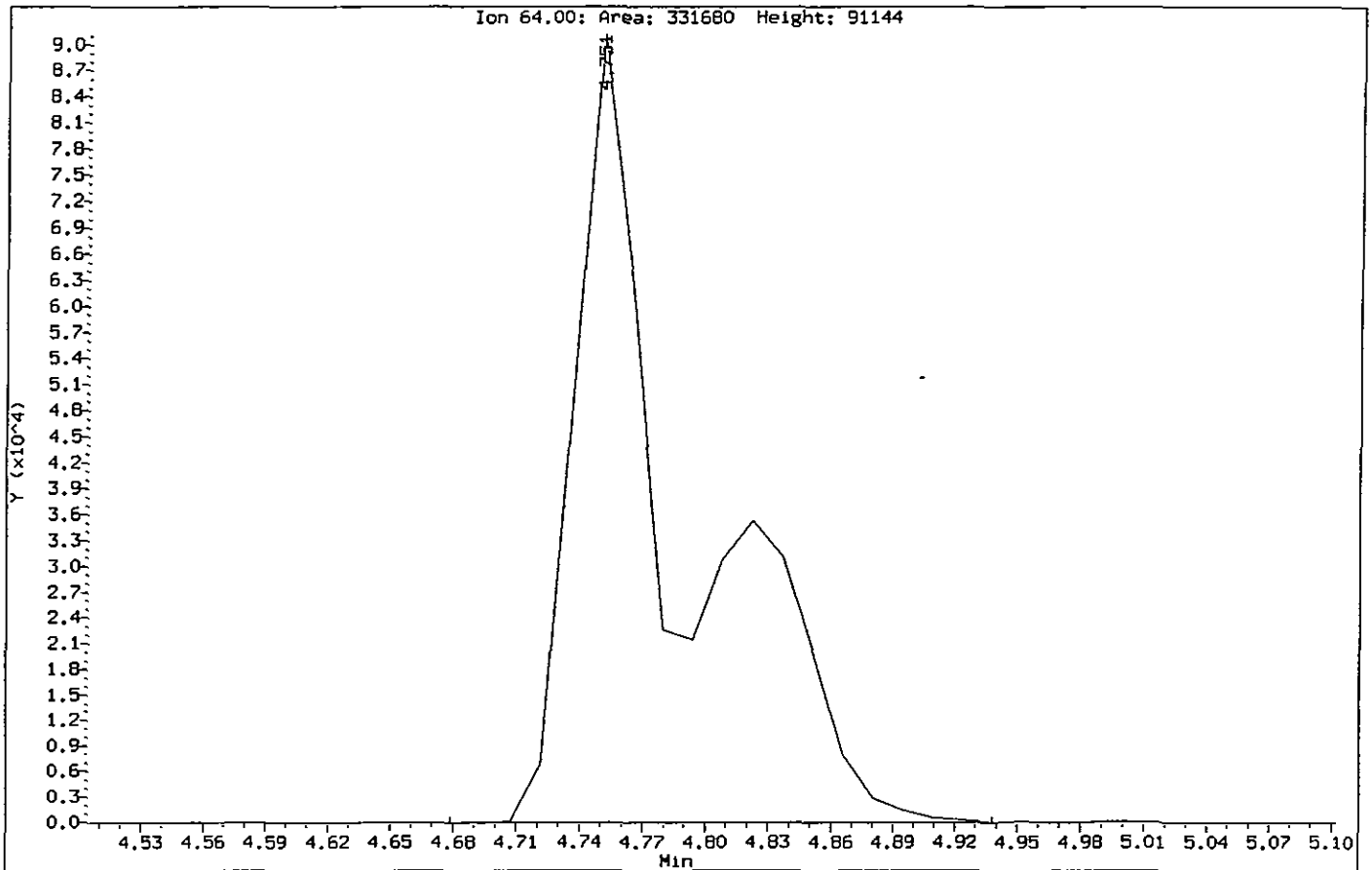
Compound: Bromomethane
CAS Number: 74-83-9

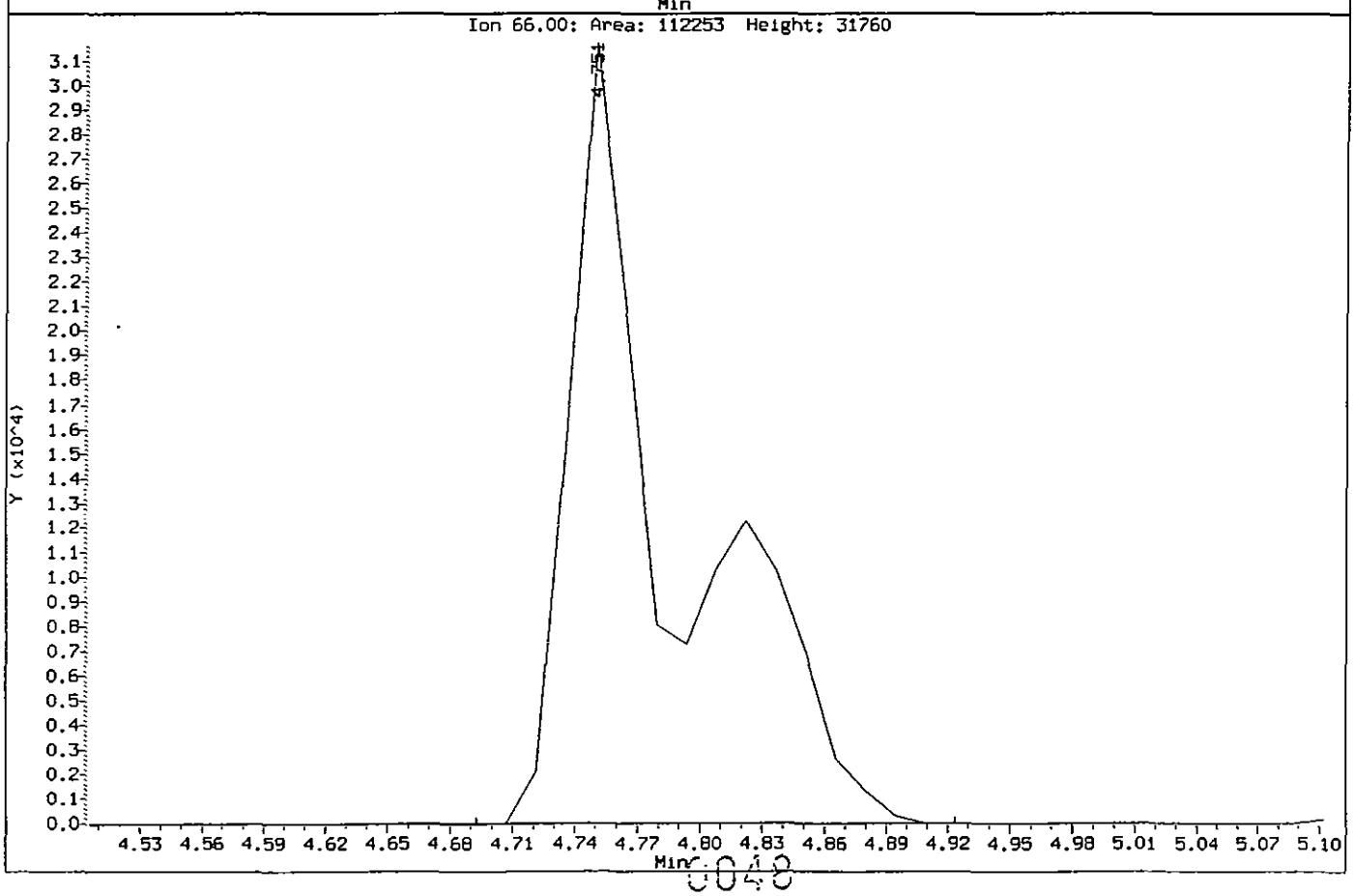




Data File: /chem/W.i/Wsvr.p/wcgto14.b/cg04012.d
Injection Date: 20-FEB-2001 14:27
Instrument: W.i
Client Sample ID: ASTD040

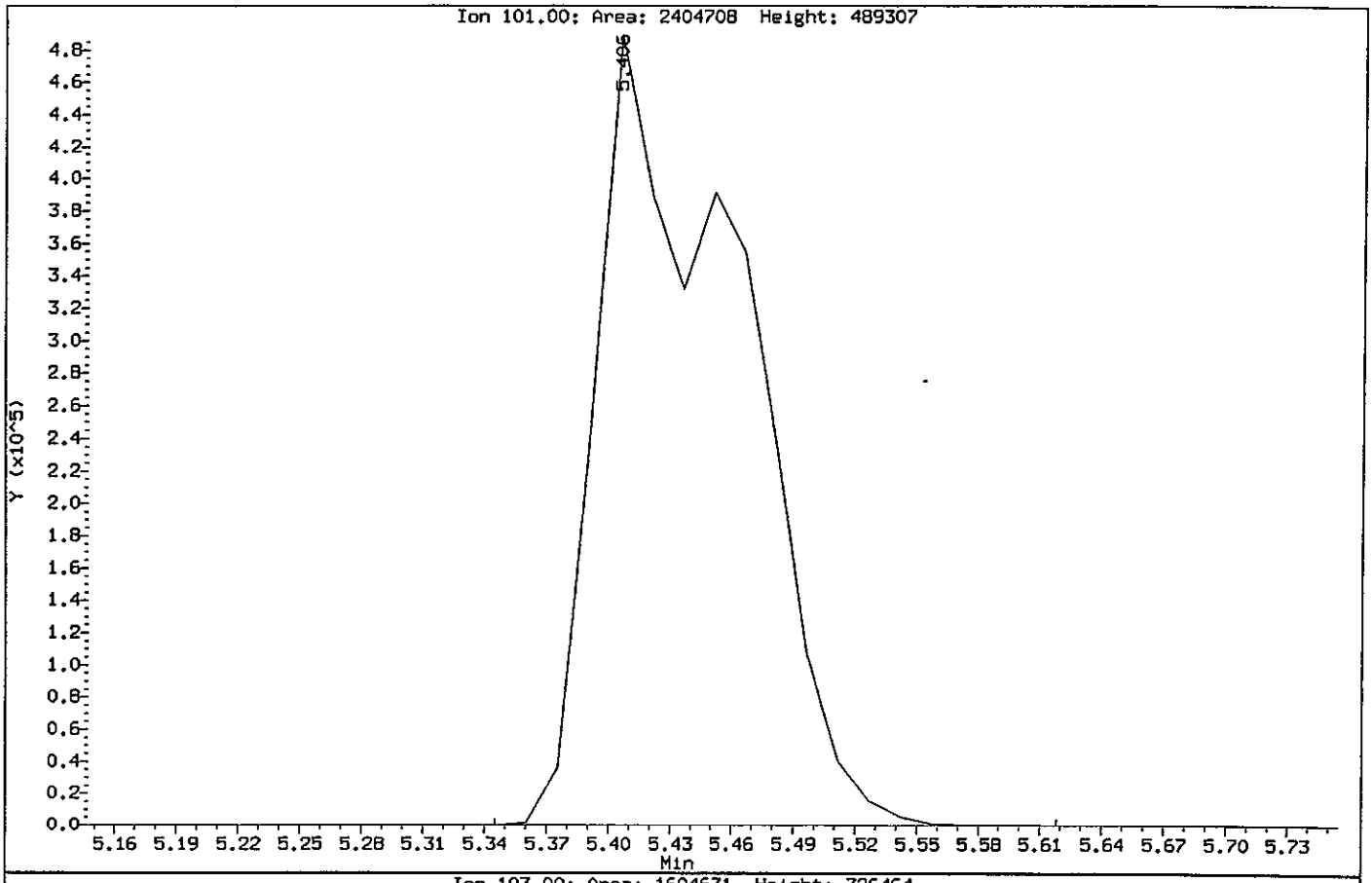
Compound: Chloroethane
CAS Number: 75-00-3

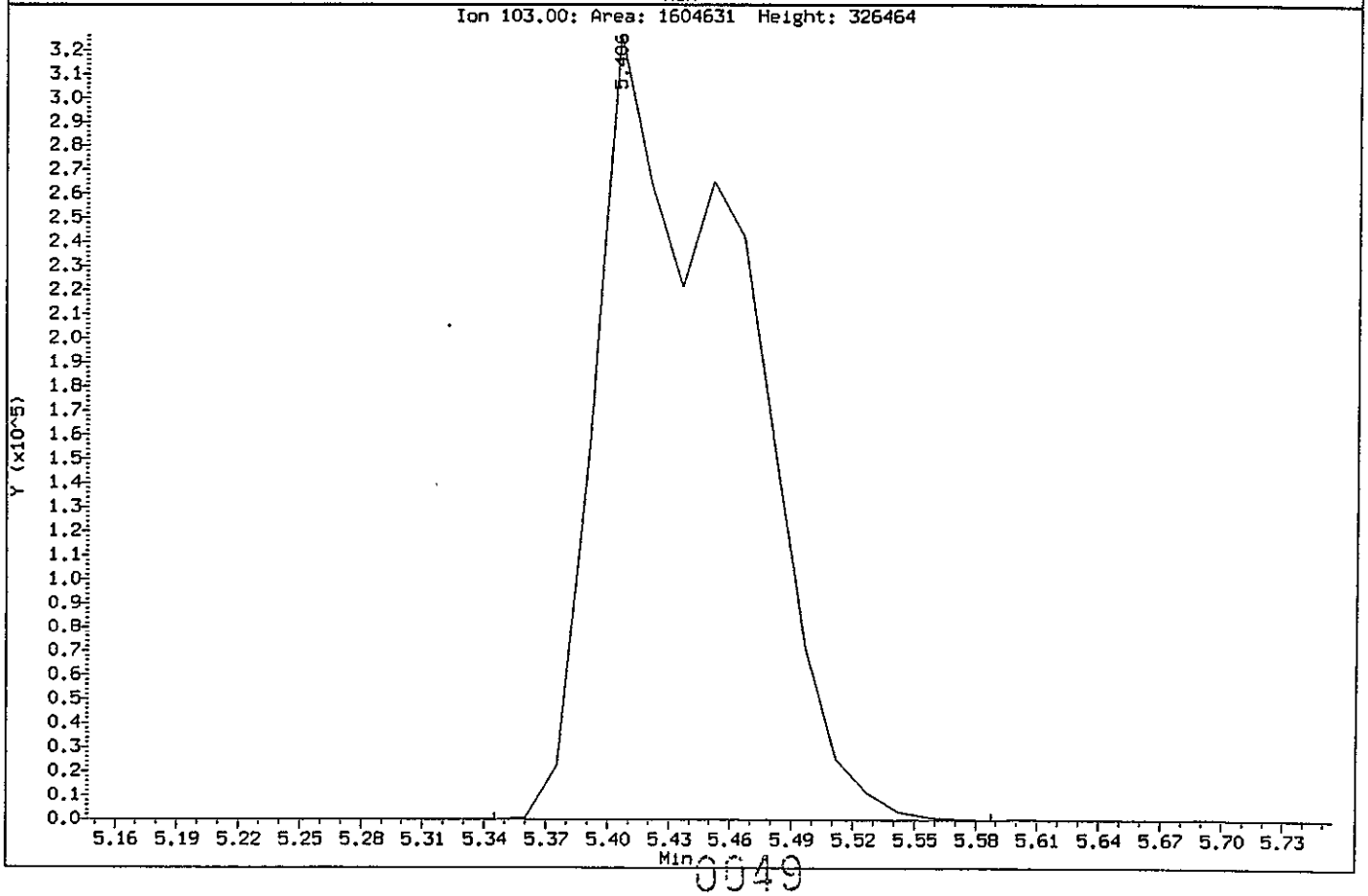




Data File: /chem/W.i/Wsvr.p/wcgto14.b/cg04012.d
Injection Date: 20-FEB-2001 14:27
Instrument: W.i
Client Sample ID: ASTD040

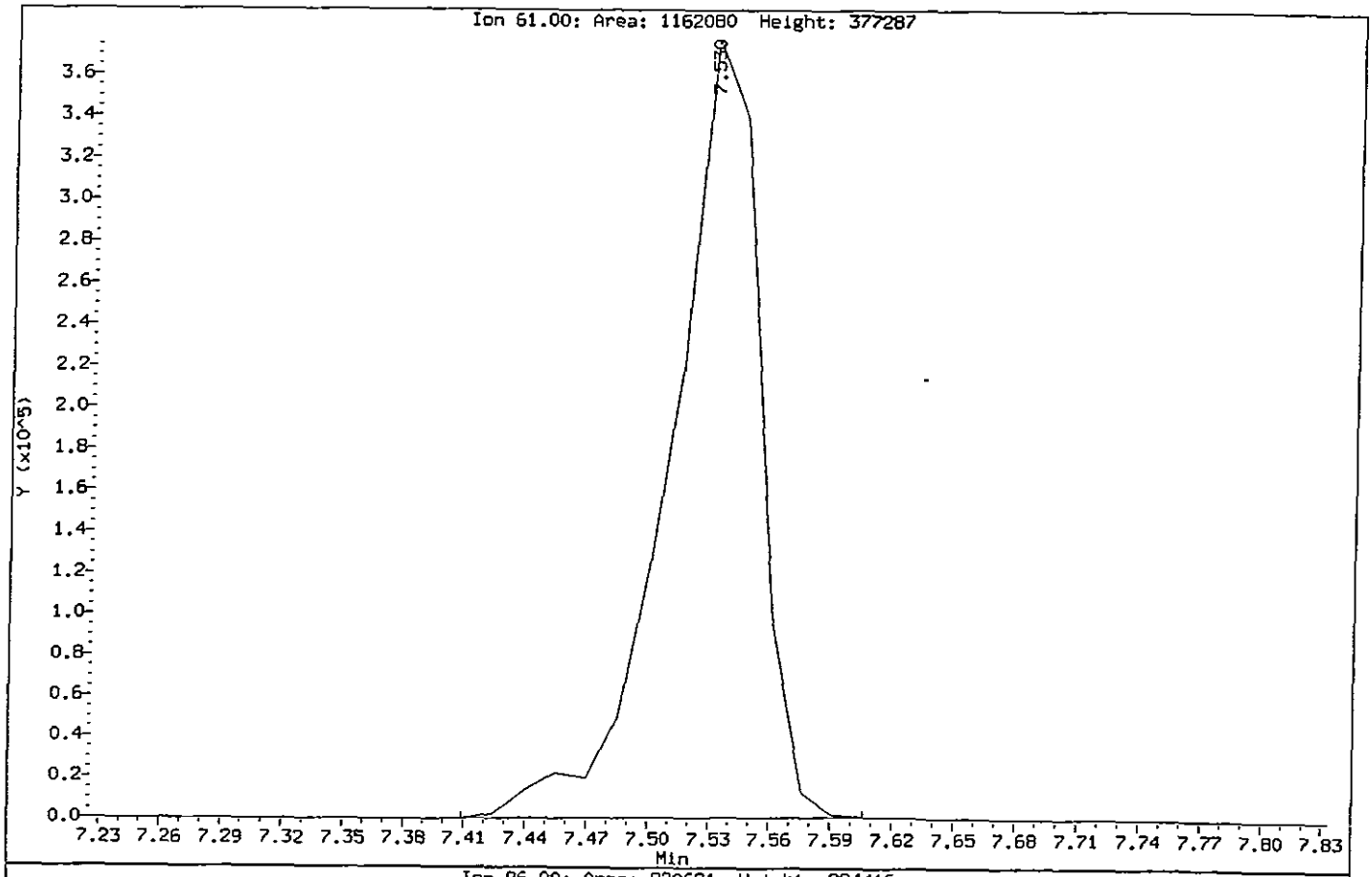
Compound: Trichlorofluoromethane
CAS Number: 75-69-4

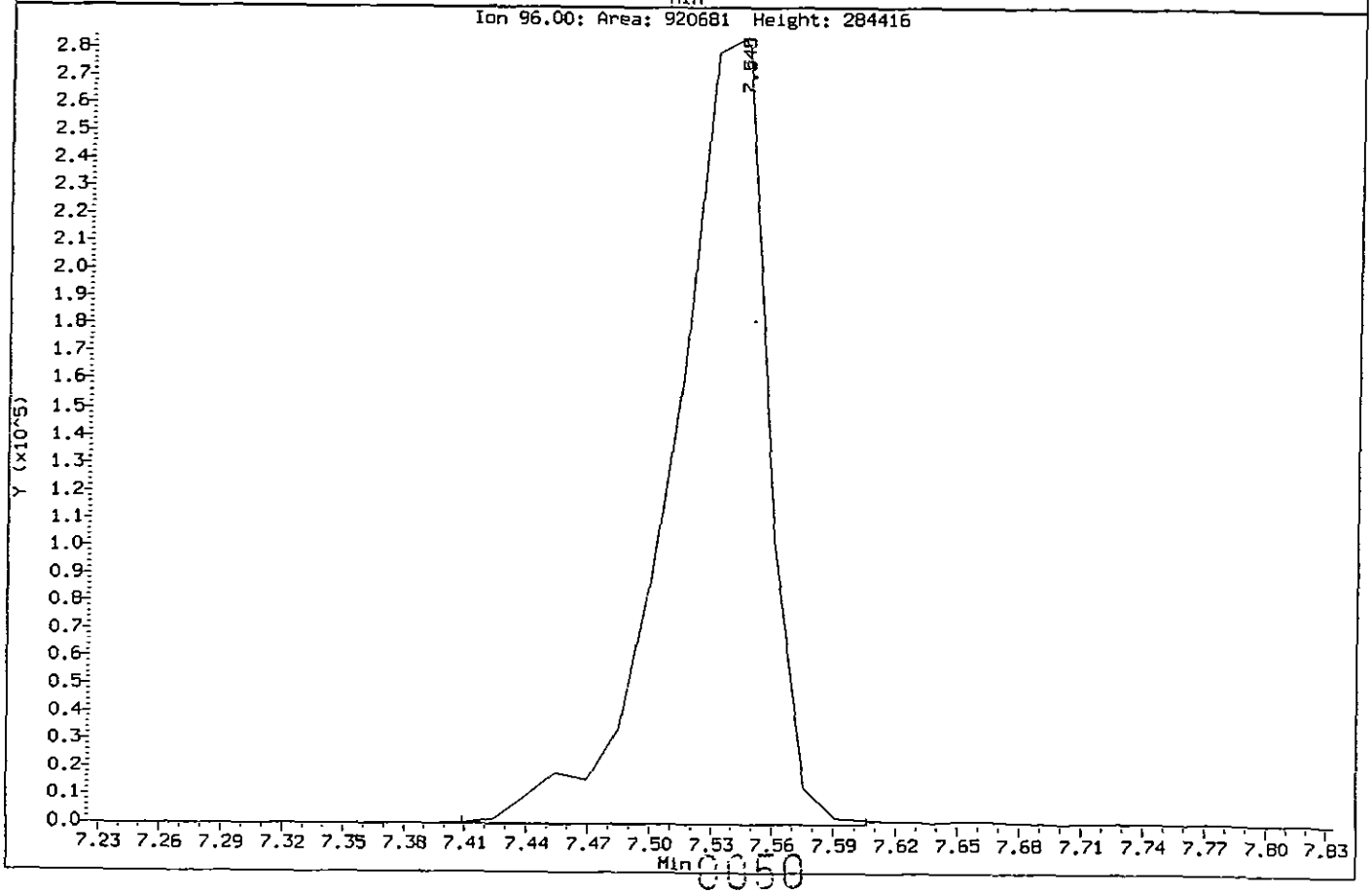




Data File: /chem/W.i/Wsvr.p/wcgto14.b/cg04012.d
Injection Date: 20-FEB-2001 14:27
Instrument: W.i
Client Sample ID: ASTD040

Compound: cis-1,2-Dichloroethene
CAS Number: 156-59-2





STL Burlington

INITIAL CALIBRATION DATA

Start Cal Date : 20-FEB-2001 11:29
End Cal Date : 20-FEB-2001 14:27
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/W.i/Wsvr.p/wcgto14.b/bto14a.m
Cal Date : 28-Feb-2001 13:40 mim
Curve Type : Average

Calibration File Names:
Level 1: /chem/W.i/Wsvr.p/wcgto14.b/cg0005i2.d
Level 2: /chem/W.i/Wsvr.p/wcgto14.b/cg005i2.d
Level 3: /chem/W.i/Wsvr.p/wcgto14.b/cg010.d
Level 4: /chem/W.i/Wsvr.p/wcgto14.b/cg020.d
Level 5: /chem/W.i/Wsvr.p/wcgto14.b/cg040i2.d

Compound	0.50000 Level 1	5.000 Level 2	10.000 Level 3	20.000 Level 4	40.000 Level 5	RRF	% RSD	
1 Dichlorodifluoromethane	2.72324	2.71129	1.93275	1.69527	1.49457	2.11142	27.205	
2 Chloromethane	0.65465	0.58527	0.42961	0.40197	0.36321	0.48694	25.898	
3 Dichlorotetrafluoroethane	2.90165	2.60752	1.96593	1.73819	1.57395	2.15745	26.519	
4 Vinyl Chloride	0.55060	0.59889	0.49264	0.43970	0.40073	0.49651	16.183	
5 Bromomethane	0.83449	0.84496	0.66390	0.59514	0.53875	0.69545	19.989	
6 Chloroethane	0.39741	0.40679	0.30390	0.28488	0.25928	0.33045	20.389	
7 Trichlorofluoromethane	2.80091	2.91148	2.02941	1.86650	1.87981	2.29762	22.431	
8 1,1-Dichloroethene	0.95015	0.92447	0.66663	0.61426	0.61074	0.75325	22.531	
9 Methylene Chloride	1.63637	1.08694	0.77340	0.71654	0.72757	0.98816	39.769	<-
10 Freon TF	1.90639	2.23729	1.58523	1.45173	1.45182	1.72649	19.731	
11 1,1-Dichloroethane	1.62126	1.79787	1.27211	1.17636	1.21072	1.41566	19.609	
12 cis-1,2-Dichloroethene	1.01802	1.10573	0.97237	0.89145	0.90842	0.97920	8.885	
14 Chloroform	2.13789	2.15403	1.72910	1.60591	1.64158	1.85370	14.598	
15 1,2-Dichloroethane	1.43468	1.47568	1.20355	1.13659	1.20404	1.29091	11.863	
16 1,1,1-Trichloroethane	1.88629	2.04046	1.58370	1.58602	1.64408	1.74811	11.747	
17 Benzene	0.50874	0.54692	0.50464	0.43611	0.40916	0.48111	11.781	
18 Carbon Tetrachloride	0.42604	0.46721	0.39836	0.37332	0.36016	0.40502	10.599	
20 1,2-Dichloropropane	0.20563	0.20969	0.19941	0.14329	0.13740	0.17908	19.888	
21 Trichloroethene	0.26180	0.27560	0.24955	0.21144	0.19565	0.23881	14.215	
22 cis-1,3-Dichloropropene	0.17000	0.25232	0.24587	0.21614	0.20920	0.21871	15.055	
23 trans-1,3-Dichloropropene	0.11258	0.15821	0.15967	0.14521	0.14832	0.14480	13.155	
24 1,1,2-Trichloroethane	0.22194	0.23152	0.20967	0.17101	0.14465	0.19576	18.738	
25 Toluene	0.29179	0.38724	0.36283	0.34375	0.36761	0.35065	10.368	
26 1,2-Dibromoethane	0.29342	0.33518	0.30870	0.29781	0.28826	0.30468	6.118	
27 Tetrachloroethene	0.26588	0.29043	0.27499	0.25645	0.23953	0.26546	7.217	
29 Chlorobenzene	0.55312	0.51327	0.46626	0.44415	0.41818	0.47900	11.312	

STL Burlington

INITIAL CALIBRATION DATA

Start Cal Date : 20-FEB-2001 11:29
End Cal Date : 20-FEB-2001 14:27
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/W.i/Wsvr.p/wcgto14.b/bto14a.m
Cal Date : 28-Feb-2001 13:40 mim
Curve Type : Average

	Compound	0.50000 Level 1	5.000 Level 2	10.000 Level 3	20.000 Level 4	40.000 Level 5	RRF	% RSD	
	30 Ethylbenzene	0.71387	0.91667	0.82497	0.79249	0.77215	0.80403	9.308	
	31 Xylene (m,p)	0.28899	0.32840	0.29599	0.28699	0.29203	0.29848	5.719	
	32 Styrene	0.29626	0.35240	0.37673	0.35917	0.32790	0.34249	9.116	
M	33 Xylene (total)	0.27251	0.32112	0.28882	0.28373	0.29623	0.29248	6.218	
	34 1,1,2,2-Tetrachloroethane	0.59821	0.57647	0.49331	0.47179	0.47530	0.52302	11.430	
	35 Xylene (o)	0.27251	0.32112	0.28882	0.28373	0.29623	0.29248	6.218	
	36 1,3,5-Trimethylbenzene	0.51894	0.71696	0.64769	0.62702	0.65781	0.63368	11.414	
	37 1,2,4-Trimethylbenzene	0.51165	0.64529	0.61408	0.60794	0.64343	0.60448	9.025	
	38 1,3-Dichlorobenzene	0.50712	0.48988	0.39271	0.39611	0.46797	0.45076	11.822	
	39 1,4-Dichlorobenzene	0.52907	0.40946	0.46382	0.48452	0.47031	0.47144	9.119	
	40 1,2-Dichlorobenzene	0.37337	0.35342	0.34070	0.36033	0.39770	0.36511	5.947	
	41 1,2,4-Trichlorobenzene	0.06923	0.03418	0.04714	0.06948	0.10317	0.06464	40.662	<-
	42 Hexachlorobutadiene	0.16820	0.11287	0.09838	0.10927	0.13301	0.12435	22.139	

FORM 7
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 81932

Instrument ID: W Calibration Date: 03/05/01 Time: 0818

Lab File ID: CG010B Init. Calib. Date(s): 02/20/01 02/20/01

Heated Purge: (Y/N) N Init. Calib. Times: 1129 1427

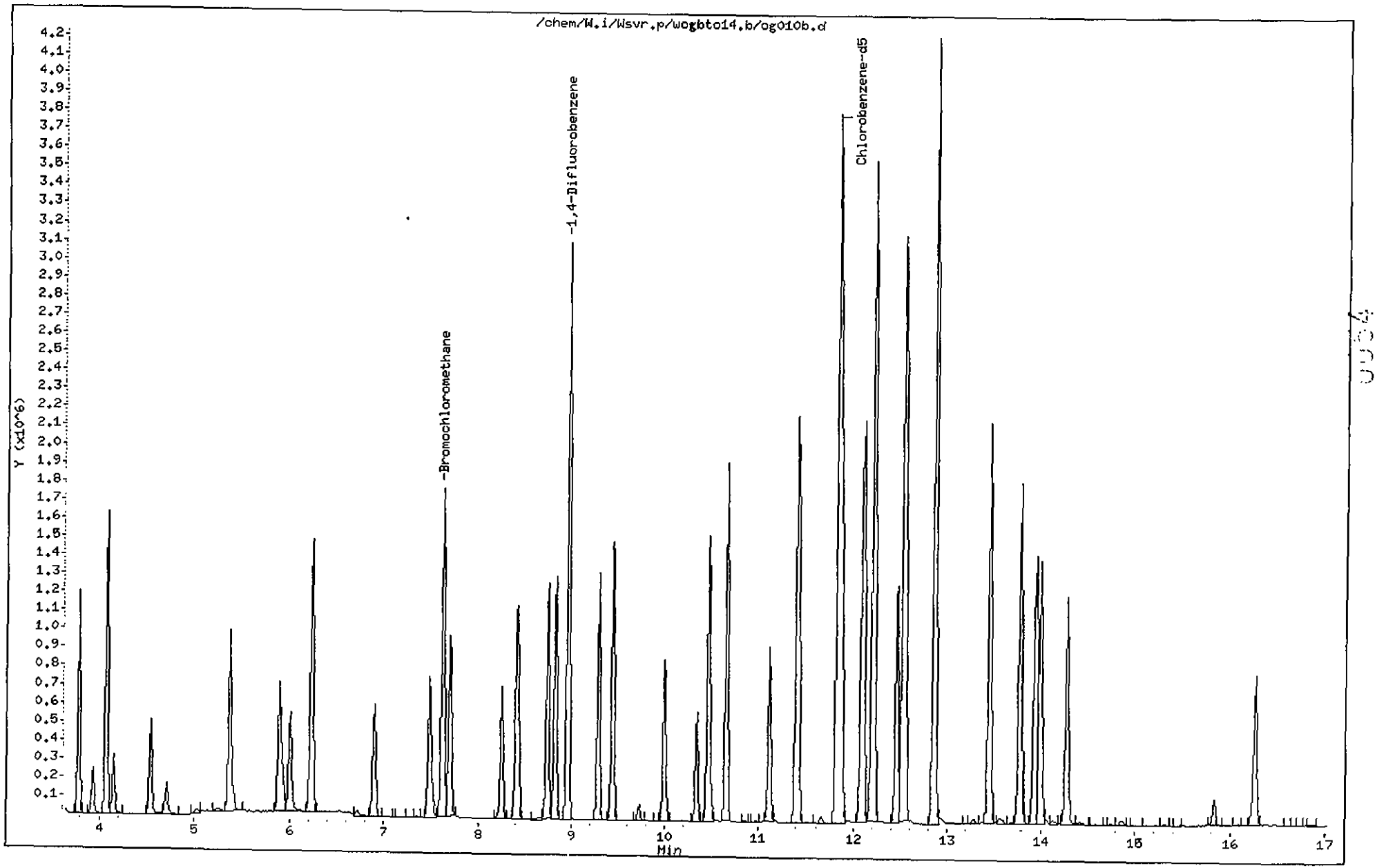
GC Column: DB-1 ID: 0.35 (mm)

COMPOUND	$\overline{RRF}$	RRF10	MIN RRF	%D	MAX %D	
Chloromethane	0.487	0.522	0.1	7.2	30.0	
Vinyl Chloride	0.497	0.559	0.01	12.5	30.0	
Bromomethane	0.695	0.656	0.01	5.6	30.0	
Chloroethane	0.330	0.302	0.01	8.5	30.0	
Trichlorofluoromethane	2.297	1.589	0.01	30.8	30.0	<-
Methylene Chloride	0.988	0.643	0.01	34.9	30.0	<-
1,1-Dichloroethane	1.416	1.282	0.1	9.5	30.0	
cis-1,2-Dichloroethene	0.979	0.959	0.01	2.0	30.0	
Chloroform	1.854	1.599	0.01	13.8	30.0	
1,1,1-Trichloroethane	1.748	1.480	0.01	15.3	30.0	
Carbon Tetrachloride	0.405	0.326	0.01	19.5	30.0	
Benzene	0.481	0.492	0.01	2.3	30.0	
1,2-Dichloroethane	1.291	1.038	0.01	19.6	30.0	
Trichloroethene	0.239	0.227	0.01	5.0	30.0	
1,2-Dichloropropane	0.179	0.182	0.01	1.7	30.0	
cis-1,3-Dichloropropene	0.219	0.230	0.01	5.0	30.0	
Toluene	0.351	0.359	0.01	2.3	30.0	
trans-1,3-Dichloropropene	0.145	0.151	0.01	4.1	30.0	
1,1,2-Trichloroethane	0.196	0.193	0.01	1.5	30.0	
Tetrachloroethene	0.265	0.279	0.01	5.3	30.0	
Chlorobenzene	0.479	0.442	0.3	7.7	30.0	
Ethylbenzene	0.804	0.779	0.01	3.1	30.0	
Xylene (total)	0.292	0.273	0.01	6.5	30.0	
Styrene	0.342	0.339	0.01	0.9	30.0	
Xylene (m,p)	0.298	0.285	0.01	4.4	30.0	
Xylene (o)	0.292	0.273	0.01	6.5	30.0	
1,1,2,2-Tetrachloroethane	0.523	0.421	0.01	19.5	30.0	
1,3-Dichlorobenzene	0.451	0.364	0.01	19.3	30.0	
1,4-Dichlorobenzene	0.471	0.307	0.01	34.8	30.0	<-
1,2-Dichlorobenzene	0.365	0.263	0.01	27.9	30.0	

Data File: /chem/W.1/Wsvr.p/wogbto14.b/og010b.d
Date : 05-MAR-2001 08:18
Client ID: ASTD010
Sample Info: ASTD010;ASTD010
Purge Volume: 200.0
Column phase: DB-1

Instrument: W.1

Operator: GHM
Column diameter: 0.35



STL Burlington

AIR TOXICS QUANTITATION REPORT

Data file : /chem/W.i/Wsvr.p/wcgbto14.b/cg010b.d
Lab Smp Id: ASTD010 Client Smp ID: ASTD010
Inj Date : 05-MAR-2001 08:18
Operator : GMM Inst ID: W.i
Smp Info : ASTD010;ASTD010
Misc Info :
Comment :
Method : /chem/W.i/Wsvr.p/wcgbto14.b/bto14a.m
Meth Date : 16-Mar-2001 15:13 mim Quant Type: ISTD
Cal Date : 20-FEB-2001 14:27 Cal File: cg040i2.d
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ACCANA2.sub
Target Version: 3.50
Processing Host: chemsvr4

Concentration Formula: Amt * DF * X* Uf/Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
X	200.00000	method volume factor
Uf	1.00000	ng unit correction factor
Vo	200.00000	Sample Volume purged (mL)

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	AMOUNTS ON-COL (ppbv)
2	Chloromethane	50	3.939	4.011	(0.517)	294789	10.0000	11
4	Vinyl Chloride	62	4.156	4.242	(0.545)	315871	10.0000	11
5	Bromomethane	94	4.545	4.631	(0.596)	370708	10.0000	9.4
6	Chloroethane	64	4.718	4.804	(0.619)	170768	10.0000	9.2
7	Trichlorofluoromethane	101	5.375	5.450	(0.705)	897452	10.0000	6.9
9	Methylene Chloride	49	5.997	6.057	(0.787)	363301	10.0000	6.5
11	1,1-Dichloroethane	63	6.893	6.953	(0.904)	724016	10.0000	9.0
12	cis-1,2-Dichloroethene	61	7.485	7.529	(0.982)	541785	10.0000	9.8
* 13	Bromochloromethane	128	7.621	7.666	(1.000)	564678	10.0000	
14	Chloroform	83	7.697	7.742	(1.010)	902988	10.0000	8.6
15	1,2-Dichloroethane	62	8.243	8.273	(1.082)	585922	10.0000	8.0
16	1,1,1-Trichloroethane	97	8.426	8.455	(1.106)	835473	10.0000	8.5
17	Benzene	78	8.744	8.774	(0.976)	1283576	10.0000	10
18	Carbon Tetrachloride	117	8.835	8.865	(0.986)	852339	10.0000	8.0

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	AMOUNTS ON-COL (ppbv)
*	19 1,4-Difluorobenzene	114	8.957	8.986	(1.000)	2611219	10.0000	
	20 1,2-Dichloropropane	63	9.291	9.305	(1.037)	475968	10.0000	10
	21 Trichloroethene	95	9.427	9.457	(1.053)	593707	10.0000	9.5
	22 cis-1,3-Dichloropropene	75	9.989	10.018	(1.115)	599411	10.0000	10
	23 trans-1,3-Dichloropropene	75	10.338	10.352	(1.154)	393458	10.0000	10
	24 1,1,2-Trichloroethane	83	10.459	10.474	(1.168)	503867	10.0000	9.8
	25 Toluene	92	10.656	10.671	(0.901)	962751	10.0000	10
	27 Tetrachloroethene	166	11.400	11.414	(0.964)	747036	10.0000	10
*	28 Chlorobenzene-d5	117	11.825	11.839	(1.000)	2678825	10.0000	
	29 Chlorobenzene	112	11.855	11.870	(1.003)	1185058	10.0000	9.2
	30 Ethylbenzene	91	12.098	12.097	(1.023)	2086915	10.0000	9.7
	31 Xylene (m,p)	106	12.204	12.204	(1.032)	1527848	20.0000	19
	32 Styrene	104	12.462	12.462	(1.054)	907968	10.0000	9.9
M	33 Xylene (total)	106				2258726	10.0000	29
	34 1,1,2,2-Tetrachloroethane	83	12.523	12.522	(1.059)	1126992	10.0000	8.0
	35 Xylene (o)	106	12.538	12.537	(1.060)	730878	10.0000	9.3
	38 1,3-Dichlorobenzene	146	13.934	13.934	(1.178)	974765	10.0000	8.1
	39 1,4-Dichlorobenzene	146	13.980	13.979	(1.182)	823301	10.0000	6.5
	40 1,2-Dichlorobenzene	146	14.268	14.267	(1.207)	704881	10.0000	7.2

STL Burlington

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: W.i
Lab File ID: cg010b.d
Analysis Type: AIR
Lab Sample ID: ASTD010
Method: /chem/W.i/Wsvr.p/wcgbto14.b/bto14a.m

Injection Date: 05-MAR-2001 08:18
Init. Cal. Date(s): 20-FEB-2001 20-FEB-2001
Init. Cal. Times: 11:29 14:27
Quant Type: ISTD

	COMPOUND	RRF / AMOUNT	RF10	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	
	2 Chloromethane	0.48694	0.52205	0.100	-7.20917	30.00000	Averaged	
	4 Vinyl Chloride	0.49651	0.55938	0.010	-12.66250	30.00000	Averaged	
	5 Bromomethane	0.69545	0.65649	0.010	5.60122	30.00000	Averaged	
	6 Chloroethane	0.33045	0.30242	0.010	8.48371	30.00000	Averaged	
	7 Trichlorofluoromethane	2.29762	1.58932	0.010	30.82773	30.00000	Averaged	<-
	9 Methylene Chloride	0.98816	0.64338	0.010	34.89169	30.00000	Averaged	<-
	11 1,1-Dichloroethane	1.41566	1.28217	0.100	9.42944	30.00000	Averaged	
	12 cis-1,2-Dichloroethene	0.97920	0.95946	0.010	2.01607	30.00000	Averaged	
	14 Chloroform	1.85370	1.59912	0.010	13.73370	30.00000	Averaged	
	15 1,2-Dichloroethane	1.29091	1.03762	0.010	19.62084	30.00000	Averaged	
	16 1,1,1-Trichloroethane	1.74811	1.47956	0.010	15.36245	30.00000	Averaged	
	17 Benzene	0.48111	0.49156	0.010	-2.17181	30.00000	Averaged	
	18 Carbon Tetrachloride	0.40502	0.32641	0.010	19.40761	30.00000	Averaged	
	20 1,2-Dichloropropane	0.17908	0.18228	0.010	-1.78452	30.00000	Averaged	
	21 Trichloroethene	0.23881	0.22737	0.010	4.79001	30.00000	Averaged	
	22 cis-1,3-Dichloropropene	0.21871	0.22955	0.010	-4.95860	30.00000	Averaged	
	23 trans-1,3-Dichloropropene	0.14480	0.15068	0.010	-4.06155	30.00000	Averaged	
	24 1,1,2-Trichloroethane	0.19576	0.19296	0.010	1.42721	30.00000	Averaged	
	25 Toluene	0.35065	0.35939	0.010	-2.49457	30.00000	Averaged	
	27 Tetrachloroethene	0.26546	0.27887	0.010	-5.05141	30.00000	Averaged	
	29 Chlorobenzene	0.47900	0.44238	0.300	7.64442	30.00000	Averaged	
	30 Ethylbenzene	0.80403	0.77904	0.010	3.10816	30.00000	Averaged	
	31 Xylene (m,p)	0.29848	0.28517	0.010	4.45912	30.00000	Averaged	
	32 Styrene	0.34249	0.33894	0.010	1.03629	30.00000	Averaged	
M	33 Xylene (total)	0.29248	0.27284	0.010	6.71787	30.00000	Averaged	
	34 1,1,2,2-Tetrachloroethane	0.52302	0.42070	0.010	19.56232	30.00000	Averaged	
	35 Xylene (o)	0.29248	0.27284	0.010	6.71787	30.00000	Averaged	
	38 1,3-Dichlorobenzene	0.45076	0.36388	0.010	19.27444	30.00000	Averaged	
	39 1,4-Dichlorobenzene	0.47144	0.30734	0.010	34.80843	30.00000	Averaged	<-
	40 1,2-Dichlorobenzene	0.36511	0.26313	0.010	27.93022	30.00000	Averaged	

SEVERN TRENT SERVICES

Severn Trent Laboratories, Inc.

METHOD TO-14A
VOLATILE ORGANIC ANALYSIS

RAW QC DATA

Data File: /chem/W.i/Wsvr.p/wcgto14.b/cg001p.d

Date : 20-FEB-2001 10:05

Client ID: WBFB001

Instrument: W.i

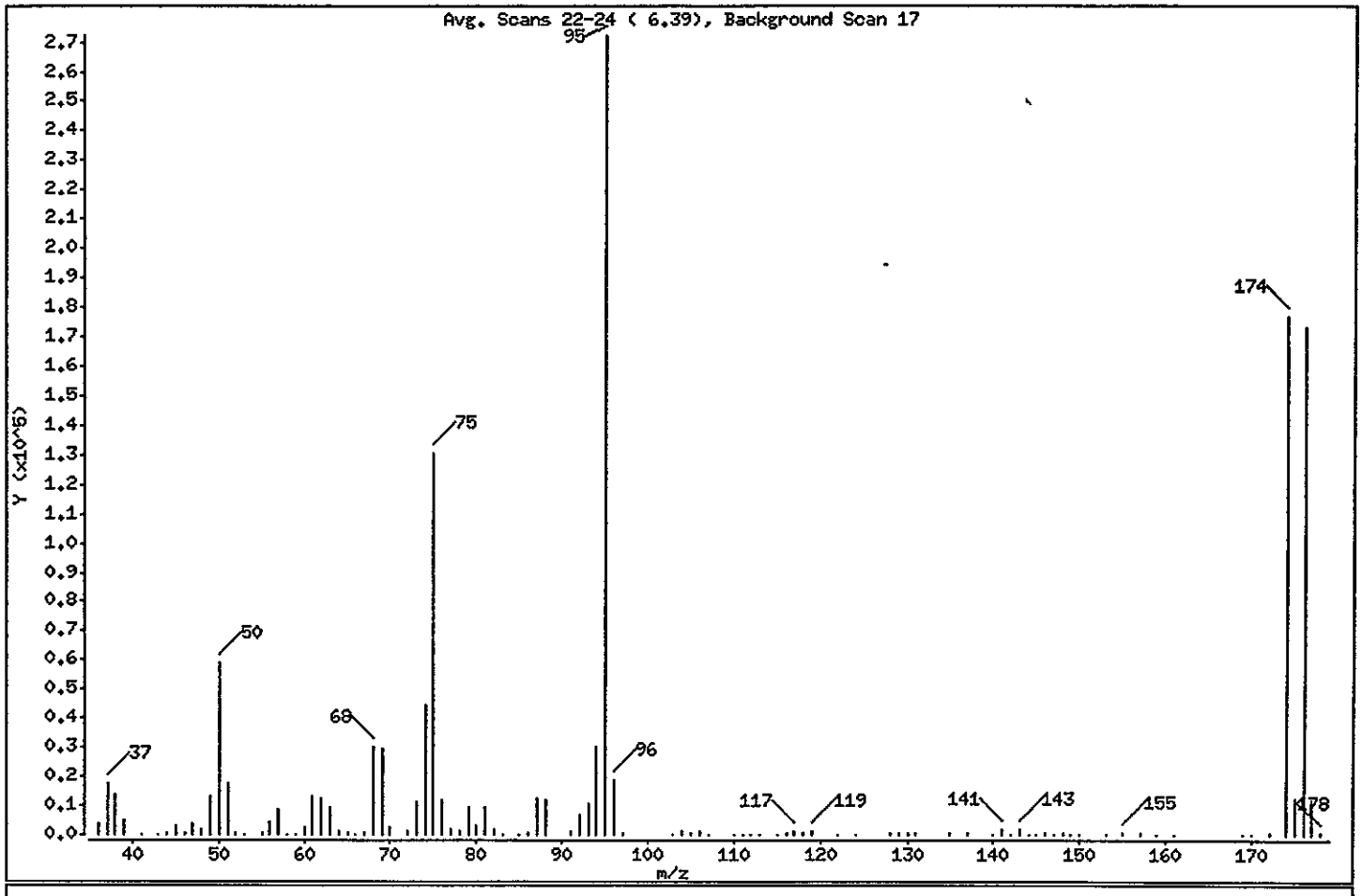
Sample Info: WBFB001

Operator: GHM

Column phase: DB-1

Column diameter: 0.32

* 1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	8.00 - 40.00% of mass 95	21.62
75	30.00 - 66.00% of mass 95	47.92
96	5.00 - 9.00% of mass 95	7.00
173	Less than 2.00% of mass 174	0.00 (0.00)
174	50.00 - 120.00% of mass 95	65.03
175	4.00 - 9.00% of mass 174	4.63 (7.12)
176	93.00 - 101.00% of mass 174	63.70 (97.96)
177	5.00 - 9.00% of mass 176	4.28 (6.72)

Date : 20-FEB-2001 10:05

Client ID: WBFB001 Instrument: W.i

Sample Info: WBFB001

Operator: GHH

Column phase: DB-1 Column diameter: 0.32

Data File: cg001p.d
Spectrum: Avg. Scans 22-24 (6.39), Background Scan 17
Location of Maximum: 95.00
Number of points: 101

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	3480	65.00	594	95.00	272256	141.00	1862
37.00	17312	66.00	281	96.00	19048	142.00	265
38.00	14112	67.00	791	97.00	523	143.00	2146
39.00	5226	68.00	30240	103.00	117	144.00	53
41.00	111	69.00	29536	104.00	1169	145.00	210
43.00	179	70.00	2265	105.00	450	146.00	369
44.00	574	72.00	1455	106.00	1163	147.00	66
45.00	2866	73.00	11561	107.00	283	148.00	535
46.00	324	74.00	44320	110.00	169	149.00	66
47.00	3985	75.00	130488	111.00	122	150.00	225
48.00	2065	76.00	11756	112.00	168	153.00	191
49.00	12986	77.00	1680	113.00	219	155.00	573
50.00	58856	78.00	1035	115.00	281	157.00	364
51.00	17728	79.00	9158	116.00	879	159.00	158
52.00	664	80.00	2885	117.00	1087	161.00	288
53.00	87	81.00	9715	118.00	904	169.00	51
55.00	893	82.00	1835	119.00	982	170.00	53
56.00	4113	83.00	305	122.00	57	172.00	577
57.00	8719	85.00	119	124.00	242	174.00	177024
58.00	102	86.00	409	128.00	909	175.00	12608
59.00	82	87.00	12650	129.00	430	176.00	173440
60.00	2559	88.00	12199	130.00	659	177.00	11649
61.00	13136	91.00	1027	131.00	340	178.00	319
62.00	12832	92.00	6680	135.00	462		
63.00	9715	93.00	10855	137.00	423		
64.00	1105	94.00	30264	140.00	126		

Data File: /chem/W.i/Wsvr.p/wcgto14.b/cg001p.d

Date : 20-FEB-2001 10:05

Client ID: WBFB001

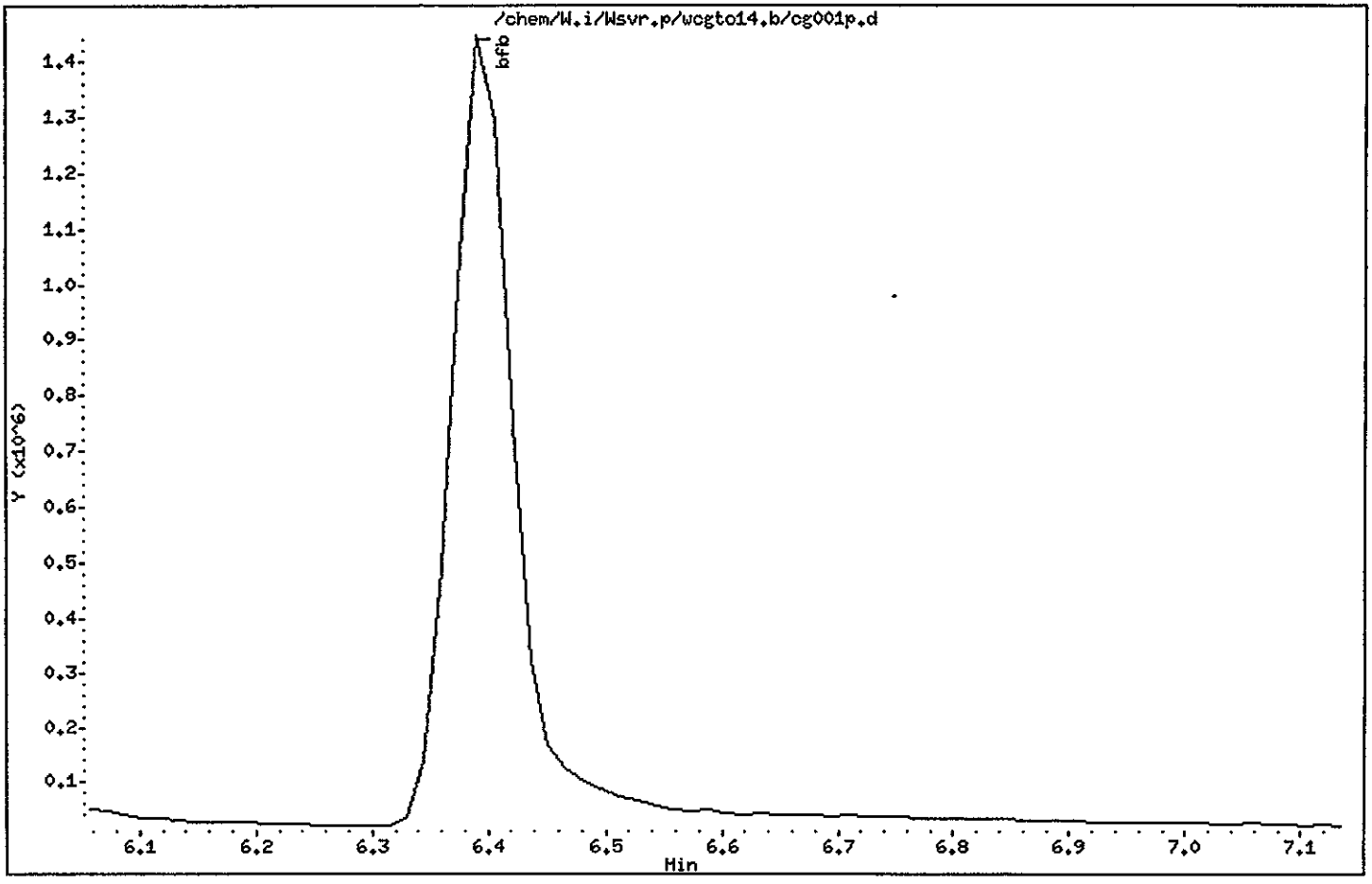
Instrument: W.i

Sample Info: WBFB001

Operator: GMM

Column phase: DB-1

Column diameter: 0.32



Data File: /chem/W.i/Wsvr.p/wcgbto14.b/cg003p.d

Date : 05-MAR-2001 07:58

Client ID: WBFB003

Instrument: W.i

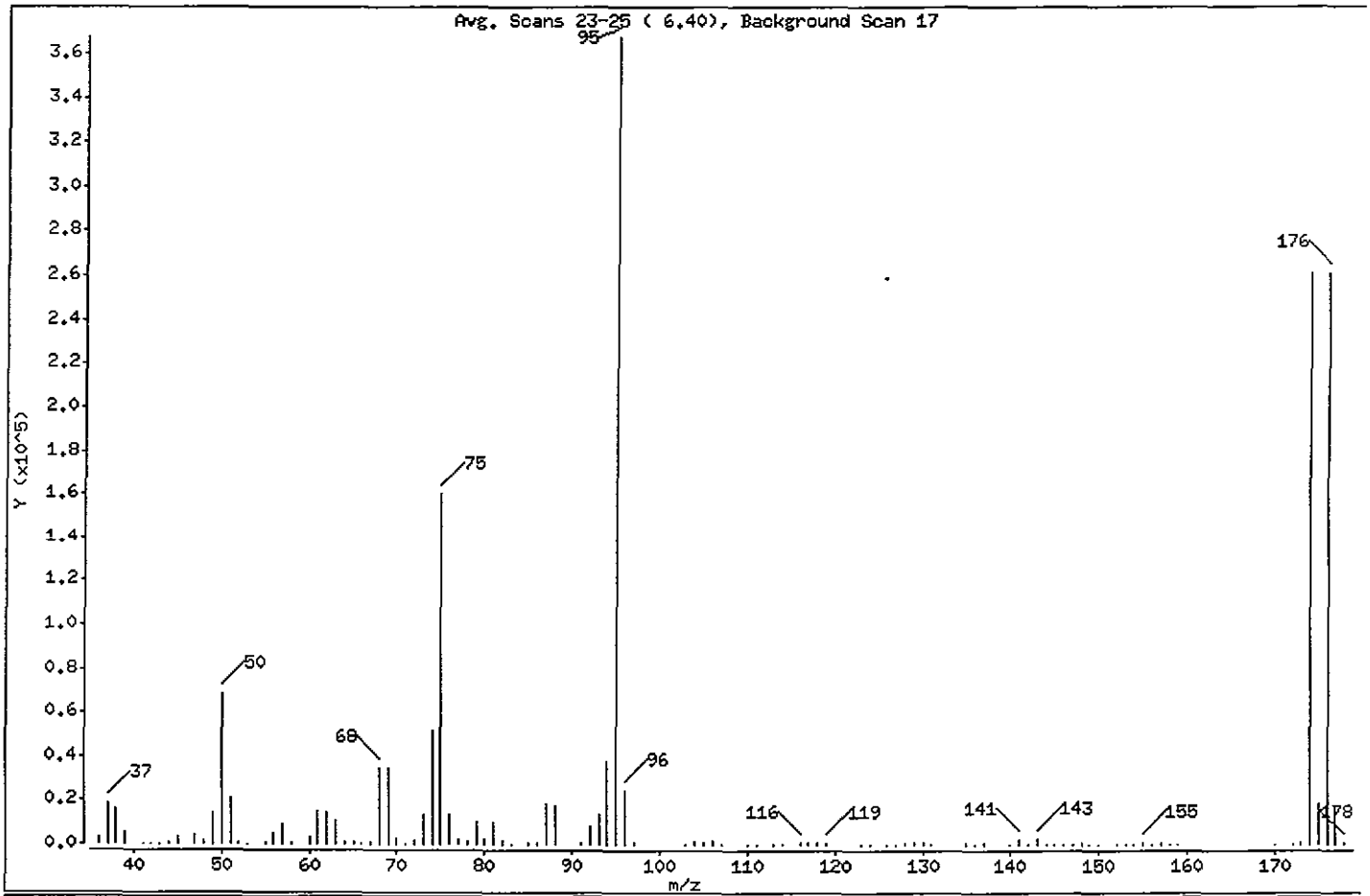
Sample Info: WBFB003

Operator: GMM

Column phase: DB-1

Column diameter: 0.32

$ 1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	8.00 - 40.00% of mass 95	18.63
75	30.00 - 66.00% of mass 95	43.46
96	5.00 - 9.00% of mass 95	6.63
173	Less than 2.00% of mass 174	0.16 (0.23)
174	50.00 - 120.00% of mass 95	70.90
175	4.00 - 9.00% of mass 174	5.16 (7.27)
176	93.00 - 101.00% of mass 174	71.02 (100.17)
177	5.00 - 9.00% of mass 176	4.71 (6.63)

Data File: /chem/W.i/Wsvr.p/wcgbto14.b/cg003p.d

Date : 05-MAR-2001 07:58

Client ID: WBFB003 Instrument: W.i

Sample Info: WBFB003

Operator: GMM

Column phase: DB-1 Column diameter: 0.32

Data File: cg003p.d
Spectrum: Avg. Scans 23-25 (6.40), Background Scan 17
Location of Maximum: 95.00
Number of points: 110

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	3659	67.00	986	103.00	179	142.00	303
37.00	18896	68.00	34816	104.00	1289	143.00	2542
38.00	16348	69.00	34624	105.00	463	144.00	51
39.00	6270	70.00	2356	106.00	1337	145.00	90
41.00	185	71.00	112	107.00	371	146.00	403
42.00	126	72.00	1684	110.00	155	147.00	103
43.00	120	73.00	13718	111.00	246	148.00	645
44.00	800	74.00	51296	112.00	137	149.00	187
45.00	3199	75.00	159808	113.00	346	150.00	245
46.00	277	76.00	13311	114.00	7	152.00	160
47.00	4502	77.00	2558	115.00	206	153.00	247
48.00	2108	78.00	1545	116.00	1127	154.00	163
49.00	14219	79.00	9986	117.00	1078	155.00	687
50.00	68496	80.00	2641	118.00	986	156.00	54
51.00	21264	81.00	10331	119.00	1152	157.00	491
52.00	833	82.00	1646	123.00	54	158.00	54
53.00	159	83.00	79	124.00	144	159.00	298
55.00	839	85.00	427	126.00	51	161.00	333
56.00	4981	86.00	521	127.00	65	170.00	66
57.00	9191	87.00	18448	128.00	1036	172.00	404
58.00	497	88.00	17784	129.00	479	173.00	602
60.00	3268	91.00	1087	130.00	935	174.00	260672
61.00	15268	92.00	8549	131.00	360	175.00	18960
62.00	14383	93.00	13615	135.00	435	176.00	261120
63.00	11390	94.00	37856	136.00	65	177.00	17320
64.00	1094	95.00	367680	137.00	503	178.00	466
65.00	441	96.00	24392	140.00	71		
66.00	305	97.00	634	141.00	2483		

Data File: /chem/W.i/Wsvr.p/wcgbto14.b/cg003p.d

Date : 05-MAR-2001 07:58

Client ID: WBFB003

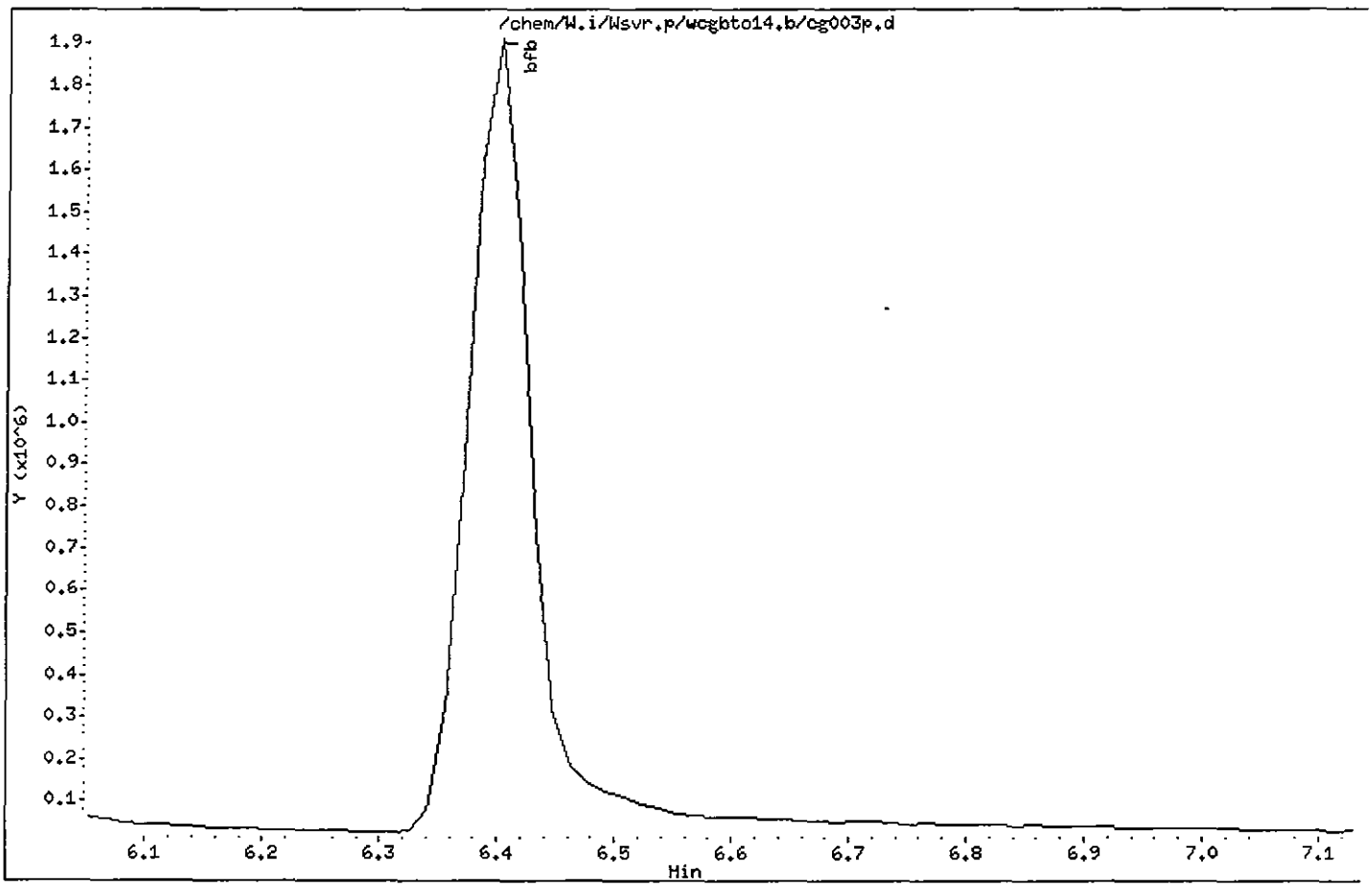
Instrument: W.i

Sample Info: WBFB003

Operator: GMM

Column phase: DB-1

Column diameter: 0.32



FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ABLKU3

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 81932

Matrix: (soil/water) AIR Lab Sample ID: ABLKU3

Sample wt/vol: 200(g/mL) ML Lab File ID: CGB001B

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

% Moisture: not dec. _____ Date Analyzed: 03/05/01

GC Column: DB-1 ID: 0.35 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) PPBV	Q
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl Chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-09-2	Methylene Chloride	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
56-23-5	Carbon Tetrachloride	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-88-3	Toluene	0.50	U
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
1330-20-7	Xylene (total)	0.50	U
100-42-5	Styrene	0.50	U
1330-20-7	Xylene (m,p)	0.50	U
95-47-6	Xylene (o)	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

ABLKU3

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 81932

Matrix: (soil/water) AIR Lab Sample ID: ABLKU3

Sample wt/vol: 200 (g/mL) ML Lab File ID: CGB001B

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

% Moisture: not dec. _____ Date Analyzed: 03/05/01

GC Column: DB-1 ID: 0.35 (mm) Dilution Factor: 1.0

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

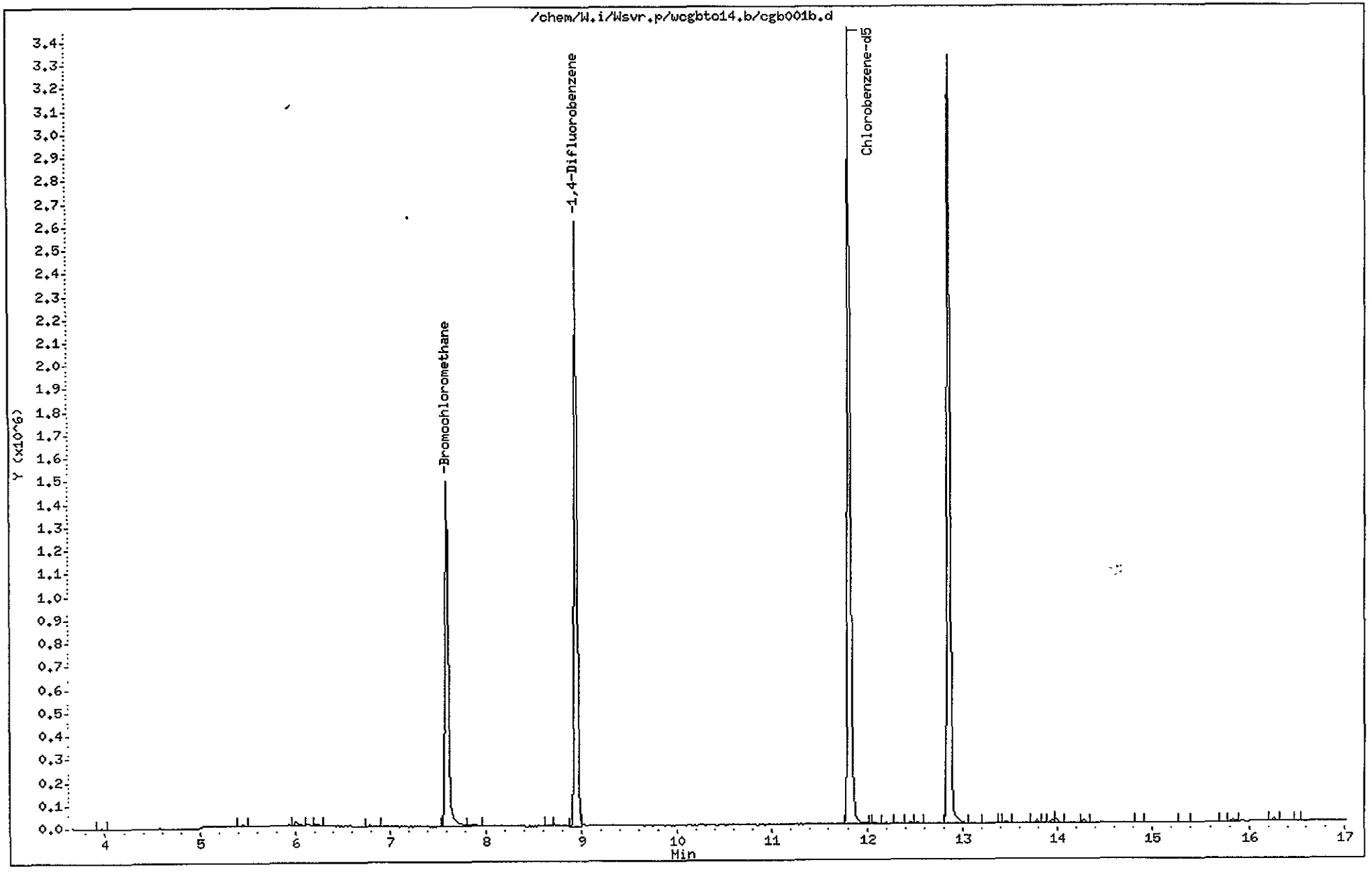
Number TICs found: 0

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

	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.					

Data File: /chem/W.i/Wsvr.p/wcgbto14.b/cgb001b.d
Date : 05-MAR-2001 10:13
Client ID: ABLKU3
Sample Info: ABLKU3;ABLKU3;;0305U3
Purge Volume: 200.0
Column phase: DB-1

Instrument: W.i
Operator: GMM
Column diameter: 0.35



STL Burlington

AIR TOXICS QUANTITATION REPORT

Data file : /chem/W.i/Wsvr.p/wcgbto14.b/cgb001b.d
Lab Smp Id: ABLKU3 Client Smp ID: ABLKU3
Inj Date : 05-MAR-2001 10:13
Operator : GMM Inst ID: W.i
Smp Info : ABLKU3;ABLKU3;;0305U3
Misc Info :
Comment :
Method : /chem/W.i/Wsvr.p/wcgbto14.b/bto14a.m
Meth Date : 16-Mar-2001 15:13 mim Quant Type: ISTD
Cal Date : 20-FEB-2001 14:27 Cal File: cg040i2.d
Als bottle: 1 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ACCANA2.sub
Target Version: 3.50
Processing Host: chemsvr4

Concentration Formula: Amt * DF * X* Uf/Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
X	200.00000	method volume factor
Uf	1.00000	ng unit correction factor
Vo	200.00000	Sample Volume purged (mL)

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)
2	Chloromethane	50	Compound Not Detected.					
4	Vinyl Chloride	62	Compound Not Detected.					
5	Bromomethane	94	Compound Not Detected.					
6	Chloroethane	64	Compound Not Detected.					
7	Trichlorofluoromethane	101	Compound Not Detected.					
9	Methylene Chloride	49	Compound Not Detected.					
11	1,1-Dichloroethane	63	Compound Not Detected.					
12	cis-1,2-Dichloroethene	61	Compound Not Detected.					
* 13	Bromochloromethane	128	7.591	7.666	(1.000)	525922	10.0000	
14	Chloroform	83	Compound Not Detected.					
15	1,2-Dichloroethane	62	Compound Not Detected.					
16	1,1,1-Trichloroethane	97	Compound Not Detected.					
17	Benzene	78	Compound Not Detected.					
18	Carbon Tetrachloride	117	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	FINAL (ppbv)
*	19 1,4-Difluorobenzene	114	8.942	8.986	(1.000)	2444555	10.0000	
	20 1,2-Dichloropropane	63	Compound Not Detected.					
	21 Trichloroethene	95	Compound Not Detected.					
	22 cis-1,3-Dichloropropene	75	Compound Not Detected.					
	23 trans-1,3-Dichloropropene	75	Compound Not Detected.					
	24 1,1,2-Trichloroethane	83	Compound Not Detected.					
	25 Toluene	92	Compound Not Detected.					
	27 Tetrachloroethene	166	Compound Not Detected.					
*	28 Chlorobenzene-d5	117	11.825	11.839	(1.000)	2424038	10.0000	
	29 Chlorobenzene	112	Compound Not Detected.					
	30 Ethylbenzene	91	Compound Not Detected.					
	31 Xylene (m,p)	106	Compound Not Detected.					
	32 Styrene	104	Compound Not Detected.					
M	33 Xylene (total)	106	Compound Not Detected.					
	34 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					
	35 Xylene (o)	106	Compound Not Detected.					
	38 1,3-Dichlorobenzene	146	Compound Not Detected.					
	39 1,4-Dichlorobenzene	146	Compound Not Detected.					
	40 1,2-Dichlorobenzene	146	Compound Not Detected.					

STL Burlington

AIR TOXICS QUANTITATION REPORT

Data file : /chem/W.i/Wsvr.p/wcgbto14.b/cgb001b.d
Lab Smp Id: ABLKU3 Client Smp ID: ABLKU3
Inj Date : 05-MAR-2001 10:13
Operator : GMM Inst ID: W.i
Smp Info : ABLKU3;ABLKU3;;0305U3
Misc Info :
Comment :
Method : /chem/W.i/Wsvr.p/wcgbto14.b/bto14a.m
Meth Date : 16-Mar-2001 15:13 mim Quant Type: ISTD
Cal Date : 20-FEB-2001 14:27 Cal File: cg040i2.d
Als bottle: 1 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ACCANA2.sub
Target Version: 3.50
Processing Host: chemsvr4

- NO TENTATIVELY IDENTIFIED COMPOUNDS -

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

S8_ICVLCS

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 81932

Matrix: (soil/water) AIR Lab Sample ID: S8_ICVLCS

Sample wt/vol: 200(g/mL) ML Lab File ID: CG010Q

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

% Moisture: not dec. _____ Date Analyzed: 02/20/01

GC Column: DB-1 ID: 0.35 (mm) Dilution Factor: 1.0

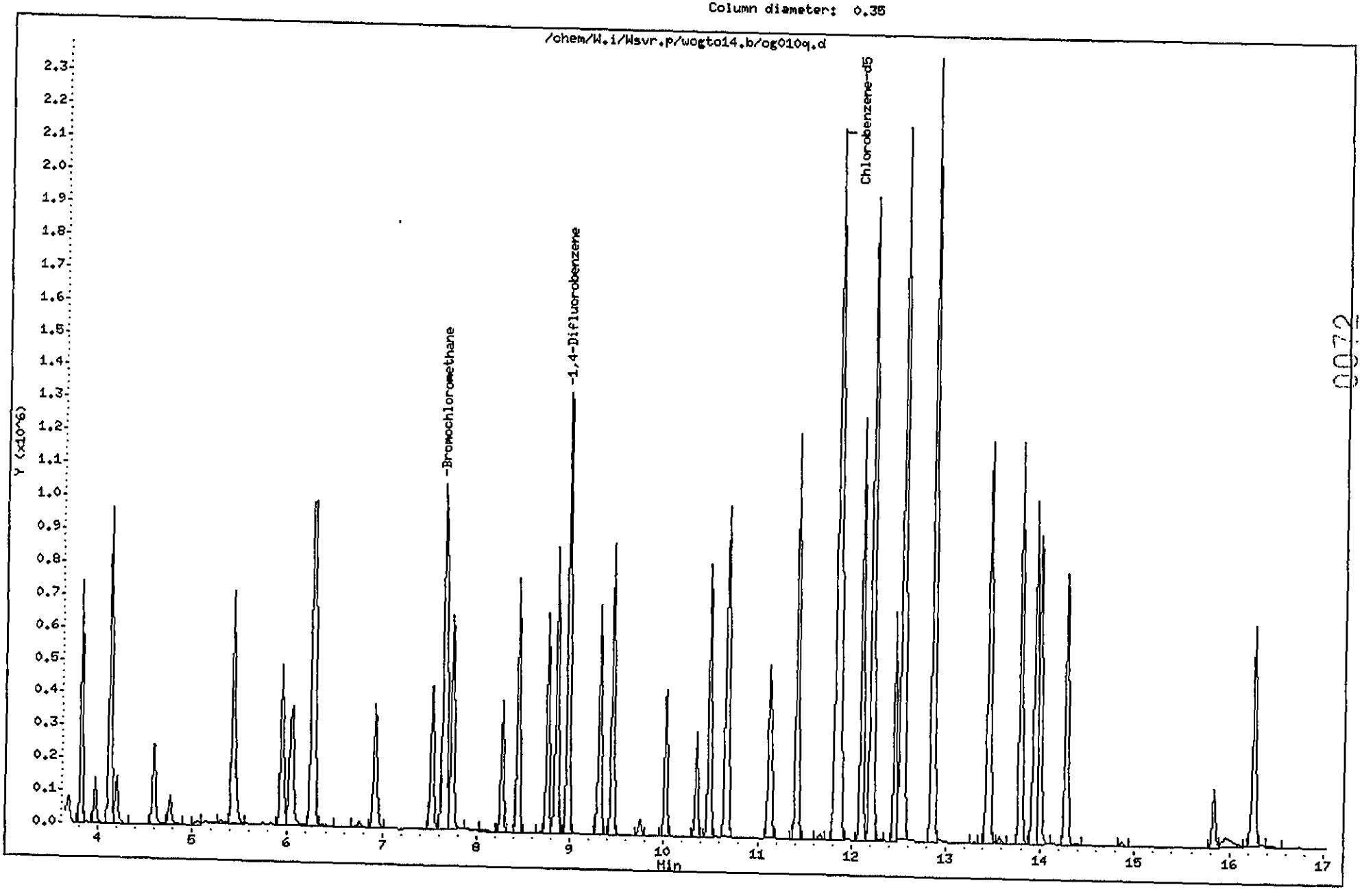
Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) PPBV	Q
74-87-3	Chloromethane	9.0	
75-01-4	Vinyl Chloride	9.4	
74-83-9	Bromomethane	9.0	
75-00-3	Chloroethane	9.3	
75-69-4	Trichlorofluoromethane	9.7	
75-09-2	Methylene Chloride	8.4	
75-34-3	1,1-Dichloroethane	9.8	
156-59-2	cis-1,2-Dichloroethene	11	
67-66-3	Chloroform	10	
71-55-6	1,1,1-Trichloroethane	8.7	
56-23-5	Carbon Tetrachloride	10	
71-43-2	Benzene	10	
107-06-2	1,2-Dichloroethane	8.5	
79-01-6	Trichloroethene	10	
78-87-5	1,2-Dichloropropane	11	
10061-01-5	cis-1,3-Dichloropropene	11	
108-88-3	Toluene	10	
10061-02-6	trans-1,3-Dichloropropene	11	
79-00-5	1,1,2-Trichloroethane	11	
127-18-4	Tetrachloroethene	9.9	
108-90-7	Chlorobenzene	9.9	
100-41-4	Ethylbenzene	11	
1330-20-7	Xylene (total)	32	
100-42-5	Styrene	8.8	
1330-20-7	Xylene (m,p)	21	
95-47-6	Xylene (o)	10	
79-34-5	1,1,2,2-Tetrachloroethane	10	
541-73-1	1,3-Dichlorobenzene	10	
106-46-7	1,4-Dichlorobenzene	9.6	
95-50-1	1,2-Dichlorobenzene	10	

Data File: /chem/W.i/Wsvr.p/wogto14.b/og010q.d
Date : 20-FEB-2001 15:01
Client ID: S8_ICVLCS
Sample Info: S8_ICV;S8_ICV
Purge Volume: 200.0
Column phase: DB-1

Instrument: W.i

Operator: GHM
Column diameter: 0.35



STL Burlington

AIR TOXICS QUANTITATION REPORT

Data file : /chem/W.i/Wsvr.p/wcgto14.b/cg010q.d
Lab Smp Id: S8_ICVLCS Client Smp ID: S8_ICVLCS
Inj Date : 20-FEB-2001 15:01
Operator : GMM Inst ID: W.i
Smp Info : S8_ICV;S8_ICV
Misc Info :
Comment :
Method : /chem/W.i/Wsvr.p/wcgto14.b/bto14a.m
Meth Date : 28-Feb-2001 13:33 mim Quant Type: ISTD
Cal Date : 20-FEB-2001 14:27 Cal File: cg040i2.d
Als bottle: 1 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50
Processing Host: chemsvr4

Concentration Formula: Amt * DF * X* Uf/Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
X	200.00000	method volume factor
Uf	1.00000	ng unit correction factor
Vo	200.00000	Sample Volume purged (mL)

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)
1	Dichlorodifluoromethane	85	3.817	3.853	(0.499)	647985	9.59679	9.6
2	Chloromethane	50	3.975	4.011	(0.519)	140050	8.99376	9.0
3	Dichlorotetrafluoroethane	85	4.134	4.170	(0.540)	622044	9.01607	9.0
4	Vinyl Chloride	62	4.206	4.242	(0.550)	149460	9.41308	9.4
5	Bromomethane	94	4.595	4.631	(0.600)	199827	8.98516	9.0
6	Chloroethane	64	4.768	4.804	(0.623)	98616	9.33204	9.3
7	Trichlorofluoromethane	101	5.422	5.450	(0.708)	712855	9.70196	9.7
8	1,1-Dichloroethene	96	5.938	5.966	(0.776)	222688	9.24474	9.2
9	Methylene Chloride	49	6.044	6.057	(0.790)	264162	8.35945	8.4
10	Freon TF	101	6.256	6.285	(0.818)	530838	9.61466	9.6
11	1,1-Dichloroethane	63	6.924	6.953	(0.905)	442449	9.77326	9.8
12	cis-1,2-Dichloroethene	61	7.516	7.529	(0.982)	333849	10.6614	11
* 13	Bromochloromethane	128	7.653	7.666	(1.000)	319789	10.0000	
14	Chloroform	83	7.728	7.742	(1.010)	599570	10.1143	10

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)
	15 1,2-Dichloroethane	62	8.275	8.273	(1.081)	351329	8.51050	8.5
	16 1,1,1-Trichloroethane	97	8.442	8.455	(1.103)	484268	8.66271	8.7
	17 Benzene	78	8.760	8.774	(0.975)	595032	10.3830	10
	18 Carbon Tetrachloride	117	8.851	8.865	(0.985)	503042	10.4270	10
*	19 1,4-Difluorobenzene	114	8.988	8.986	(1.000)	1191164	10.0000	
	20 1,2-Dichloropropane	63	9.307	9.305	(1.035)	234341	10.9856	11
	21 Trichloroethene	95	9.458	9.457	(1.052)	297345	10.4530	10
	22 cis-1,3-Dichloropropene	75	10.020	10.018	(1.115)	282721	10.8523	11
	23 trans-1,3-Dichloropropene	75	10.354	10.352	(1.152)	184312	10.6861	11
	24 1,1,2-Trichloroethane	83	10.475	10.474	(1.165)	254109	10.8977	11
	25 Toluene	92	10.672	10.671	(0.901)	459463	10.2820	10
	26 1,2-Dibromoethane	107	11.128	11.126	(0.940)	397361	10.2339	10
	27 Tetrachloroethene	166	11.416	11.414	(0.964)	334624	9.89135	9.9
*	28 Chlorobenzene-d5	117	11.841	11.839	(1.000)	1274401	10.0000	
	29 Chlorobenzene	112	11.871	11.870	(1.003)	605330	9.91640	9.9
	30 Ethylbenzene	91	12.099	12.097	(1.022)	1096226	10.6984	11
	31 Xylene (m,p)	106	12.220	12.204	(1.032)	789272	20.7493	21
	32 Styrene	104	12.463	12.462	(1.053)	383351	8.78295	8.8
M	33 Xylene (total)	106				1181830	31.7064	32
	34 1,1,2,2-Tetrachloroethane	83	12.539	12.522	(1.059)	688595	10.3310	10
	35 Xylene (o)	106	12.539	12.537	(1.059)	392558	10.5316	10
	36 1,3,5-Trimethylbenzene	105	13.465	13.448	(1.137)	861023	10.6620	11
	37 1,2,4-Trimethylbenzene	105	13.784	13.782	(1.164)	821933	10.6696	11
	38 1,3-Dichlorobenzene	146	13.935	13.934	(1.177)	576335	10.0329	10
	39 1,4-Dichlorobenzene	146	13.996	13.979	(1.182)	579950	9.65298	9.6
	40 1,2-Dichlorobenzene	146	14.284	14.267	(1.206)	475114	10.2111	10
	41 1,2,4-Trichlorobenzene	180	15.832	15.831	(1.337)	66311	8.04990	8.0
	42 Hexachlorobutadiene	225	16.257	16.255	(1.373)	142296	8.97954	9.0

STL Burlington

RECOVERY REPORT

Client Name:
Sample Matrix: GAS
Lab Smp Id: S8_ICVLCS
Level: LOW
Data Type: MS DATA
SpikeList File: all.spk
Sublist File: all.sub
Method File: /chem/W.i/Wsvr.p/wcgto14.b/bto14a.m
Misc Info:

Client SDG:
Fraction: VOA
Client Smp ID: S8_ICVLCS
Operator: GMM
SampleType: LCS
Quant Type: ISTD

SPIKE COMPOUND	CONC ADDED ppbv	CONC RECOVERED ppbv	% RECOVERED	LIMITS
1 Dichlorodifluorome	10	9.6	95.97	70-130
2 Chloromethane	10	9.0	89.94	70-130
3 Dichlorotetrafluor	10	9.0	90.16	70-130
4 Vinyl Chloride	10	9.4	94.13	70-130
5 Bromomethane	10	9.0	89.85	70-130
6 Chloroethane	10	9.3	93.32	70-130
7 Trichlorofluoromet	10	9.7	97.02	70-130
8 1,1-Dichloroethene	10	9.2	92.45	70-130
9 Methylene Chloride	10	8.4	83.59	70-130
10 Freon TF	10	9.6	96.15	70-130
11 1,1-Dichloroethane	10	9.8	97.73	70-130
12 cis-1,2-Dichloroet	10	11	106.61	70-130
14 Chloroform	10	10	101.14	70-130
15 1,2-Dichloroethane	10	8.5	85.10	70-130
16 1,1,1-Trichloroeth	10	8.7	86.63	70-130
17 Benzene	10	10	103.83	70-130
18 Carbon Tetrachlori	10	10	104.27	70-130
20 1,2-Dichloropropan	10	11	109.86	70-130
21 Trichloroethene	10	10	104.53	70-130
22 cis-1,3-Dichloropr	10	11	108.52	70-130
23 trans-1,3-Dichloro	10	11	106.86	70-130
24 1,1,2-Trichloroeth	10	11	108.98	70-130
25 Toluene	10	10	102.82	70-130
26 1,2-Dibromoethane	10	10	102.34	70-130
27 Tetrachloroethene	10	9.9	98.91	70-130
29 Chlorobenzene	10	9.9	99.16	70-130
30 Ethylbenzene	10	11	106.98	70-130
31 Xylene (m,p)	20	21	103.75	70-130
32 Styrene	10	8.8	87.83	70-130
34 1,1,2,2-Tetrachlor	10	10	103.31	70-130
35 Xylene (o)	10	10	105.32	70-130
36 1,3,5-Trimethylben	10	11	106.62	70-130
37 1,2,4-Trimethylben	10	11	106.70	70-130

SPIKE COMPOUND	CONC ADDED ppbv	CONC RECOVERED ppbv	% RECOVERED	LIMITS
38 1,3-Dichlorobenzen	10	10	100.33	70-130
39 1,4-Dichlorobenzen	10	9.6	96.53	70-130
40 1,2-Dichlorobenzen	10	10	102.11	70-130
41 1,2,4-Trichloroben	10	8.0	80.50	70-130
42 Hexachlorobutadien	10	9.0	89.80	70-130

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

U3_LCS

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 81932

Matrix: (soil/water) AIR Lab Sample ID: U3_LCS

Sample wt/vol: 200(g/mL) ML Lab File ID: CG010BQ

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

% Moisture: not dec. _____ Date Analyzed: 03/05/01

GC Column: DB-1 ID: 0.35 (mm) Dilution Factor: 1.0

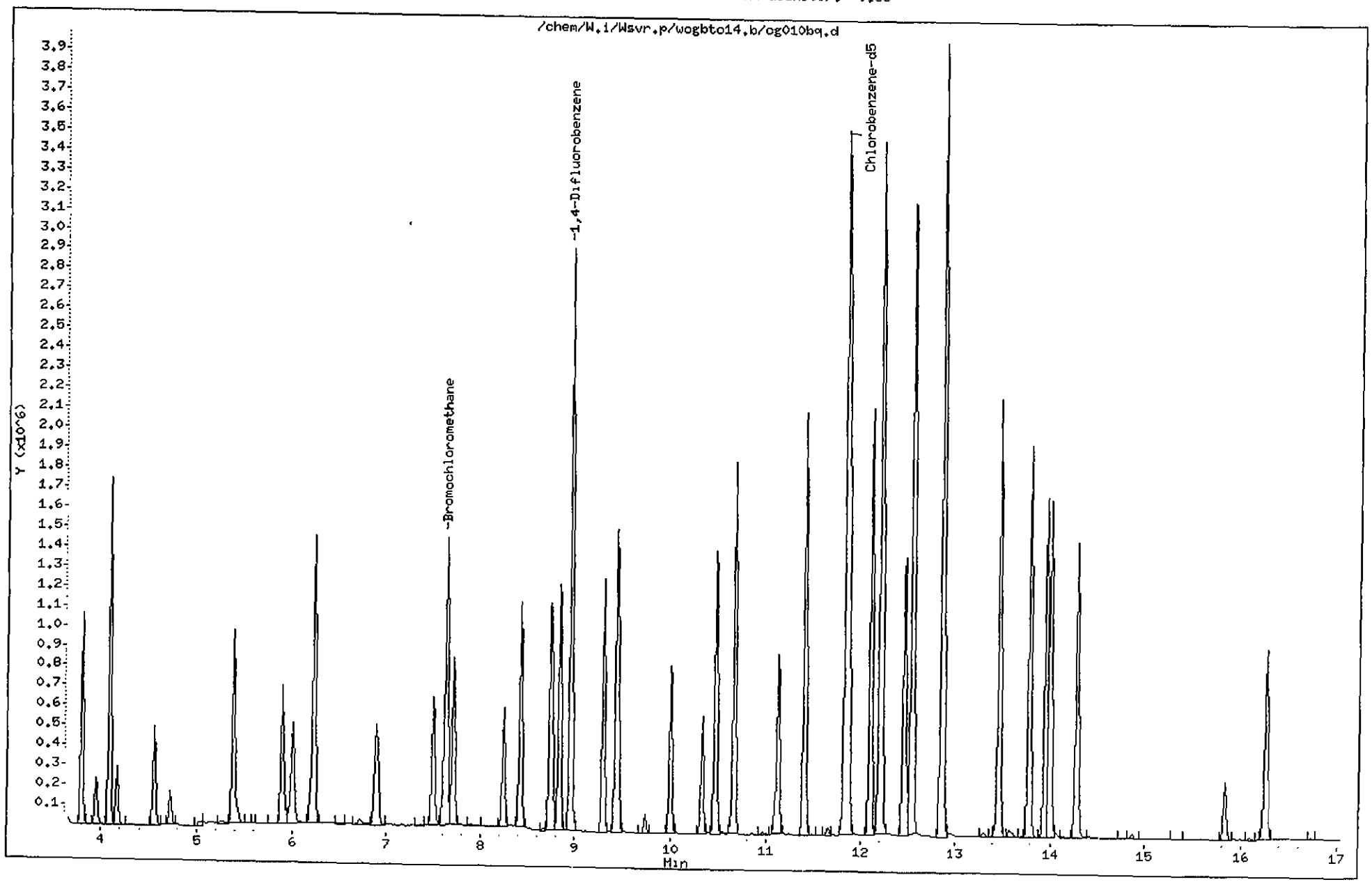
Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) PPBV	Q
74-87-3	Chloromethane	12	
75-01-4	Vinyl Chloride	13	
74-83-9	Bromomethane	10	
75-00-3	Chloroethane	11	
75-69-4	Trichlorofluoromethane	8.5	
75-09-2	Methylene Chloride	8.0	
75-34-3	1,1-Dichloroethane	8.9	
156-59-2	cis-1,2-Dichloroethene	9.7	
67-66-3	Chloroform	8.9	
71-55-6	1,1,1-Trichloroethane	9.3	
56-23-5	Carbon Tetrachloride	8.4	
71-43-2	Benzene	10	
107-06-2	1,2-Dichloroethane	8.7	
79-01-6	Trichloroethene	9.9	
78-87-5	1,2-Dichloropropane	10	
10061-01-5	cis-1,3-Dichloropropene	11	
108-88-3	Toluene	10	
10061-02-6	trans-1,3-Dichloropropene	11	
79-00-5	1,1,2-Trichloroethane	10	
127-18-4	Tetrachloroethene	11	
108-90-7	Chlorobenzene	9.7	
100-41-4	Ethylbenzene	10	
1330-20-7	Xylene (total)	30	
100-42-5	Styrene	11	
1330-20-7	Xylene (m,p)	20	
95-47-6	Xylene (o)	10	
79-34-5	1,1,2,2-Tetrachloroethane	8.8	
541-73-1	1,3-Dichlorobenzene	10	
106-46-7	1,4-Dichlorobenzene	8.2	
95-50-1	1,2-Dichlorobenzene	9.2	

Data File: /chem/W.1/Wsvr.p/wcgbto14.b/cg010bq.d
Date : 05-MAR-2001 08:52
Client ID: U3_LCS
Sample Info: U3_LCS;U3_LCS
Purge Volume: 200.0
Column phase: DB-1

Instrument: W.1

Operator: GMM
Column diameter: 0.35



STL Burlington

AIR TOXICS QUANTITATION REPORT

Data file : /chem/W.i/Wsvr.p/wcgbto14.b/cg010bq.d
Lab Smp Id: U3_LCS Client Smp ID: U3_LCS
Inj Date : 05-MAR-2001 08:52
Operator : GMM Inst ID: W.i
Smp Info : U3_LCS;U3_LCS
Misc Info :
Comment :
Method : /chem/W.i/Wsvr.p/wcgbto14.b/bto14a.m
Meth Date : 16-Mar-2001 15:13 mim Quant Type: ISTD
Cal Date : 20-FEB-2001 14:27 Cal File: cg040i2.d
Als bottle: 1 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ACCANA2.sub
Target Version: 3.50
Processing Host: chemsvr4

Concentration Formula: Amt * DF * X* Uf/Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
X	200.00000	method volume factor
Uf	1.00000	ng unit correction factor
Vo	200.00000	Sample Volume purged (mL)

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	FINAL (ppbv)
2	Chloromethane	50	3.940	4.011	(0.517)	280712	12.3823	12
4	Vinyl Chloride	62	4.171	4.242	(0.547)	299260	12.9460	13
5	Bromomethane	94	4.546	4.631	(0.596)	341717	10.5541	10
6	Chloroethane	64	4.719	4.804	(0.619)	165118	10.7326	11
7	Trichlorofluoromethane	101	5.375	5.450	(0.705)	907767	8.48621	8.5
9	Methylene Chloride	49	5.998	6.057	(0.787)	365836	7.95197	8.0
11	1,1-Dichloroethane	63	6.893	6.953	(0.904)	587833	8.91891	8.9
12	cis-1,2-Dichloroethene	61	7.485	7.529	(0.982)	442536	9.70723	9.7
* 13	Bromochloromethane	128	7.621	7.666	(1.000)	465567	10.0000	
14	Chloroform	83	7.697	7.742	(1.010)	765141	8.86583	8.9
15	1,2-Dichloroethane	62	8.244	8.273	(1.082)	520892	8.66702	8.7
16	1,1,1-Trichloroethane	97	8.411	8.455	(1.104)	760241	9.34116	9.3
17	Benzene	78	8.744	8.774	(0.976)	1201731	10.2886	10
18	Carbon Tetrachloride	117	8.836	8.865	(0.986)	827648	8.41720	8.4

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	FINAL (ppbv)
*	19 1,4-Difluorobenzene	114	8.957	8.986	(1.000)	2427745	10.0000	
	20 1,2-Dichloropropane	63	9.291	9.305	(1.037)	445677	10.2510	10
	21 Trichloroethene	95	9.427	9.457	(1.053)	572547	9.87556	9.9
	22 cis-1,3-Dichloropropene	75	9.989	10.018	(1.115)	587943	11.0731	11
	23 trans-1,3-Dichloropropene	75	10.338	10.352	(1.154)	375002	10.6676	11
	24 1,1,2-Trichloroethane	83	10.459	10.474	(1.168)	477891	10.0557	10
	25 Toluene	92	10.657	10.671	(0.901)	927107	10.5594	10
	27 Tetrachloroethene	166	11.400	11.414	(0.964)	707870	10.6497	11
*	28 Chlorobenzene-d5	117	11.825	11.839	(1.000)	2503925	10.0000	
	29 Chlorobenzene	112	11.855	11.870	(1.003)	1163765	9.70313	9.7
	30 Ethylbenzene	91	12.098	12.097	(1.023)	2068215	10.2731	10
	31 Xylene (m,p)	106	12.205	12.204	(1.032)	1493297	19.9806	20
	32 Styrene	104	12.463	12.462	(1.054)	983043	11.4631	11
M	33 Xylene (total)	106				2224582	30.3756	30
	34 1,1,2,2-Tetrachloroethane	83	12.523	12.522	(1.059)	1159783	8.85602	8.8
	35 Xylene (o)	106	12.538	12.537	(1.060)	731285	9.98535	10
	38 1,3-Dichlorobenzene	146	13.935	13.934	(1.178)	1128818	10.0013	10
	39 1,4-Dichlorobenzene	146	13.980	13.979	(1.182)	963759	8.16440	8.2
	40 1,2-Dichlorobenzene	146	14.268	14.267	(1.207)	836614	9.15136	9.2

STL Burlington

RECOVERY REPORT

Client Name: Client SDG:
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: U3_LCS Client Smp ID: U3_LCS
Level: LOW Operator: GMM
Data Type: MS DATA SampleType: LCS
SpikeList File: ACCANA2.spk Quant Type: ISTD
Sublist File: ACCANA2.sub
Method File: /chem/W.i/Wsvr.p/wcgbto14.b/bto14a.m
Misc Info:

SPIKE	COMPOUND	CONC ADDED ppbv	CONC RECOVERED ppbv	% RECOVERED	LIMITS
2	Chloromethane	10	12	123.82	70-130
4	Vinyl Chloride	10	13	129.46	70-130
5	Bromomethane	10	10	105.54	70-130
6	Chloroethane	10	11	107.33	70-130
7	Trichlorofluoromet	10	8.5	84.86	70-130
9	Methylene Chloride	10	8.0	79.52	70-130
11	1,1-Dichloroethane	10	8.9	89.19	70-130
12	cis-1,2-Dichloroet	10	9.7	97.07	70-130
14	Chloroform	10	8.9	88.66	70-130
15	1,2-Dichloroethane	10	8.7	86.67	70-130
16	1,1,1-Trichloroeth	10	9.3	93.41	70-130
17	Benzene	10	10	102.89	70-130
18	Carbon Tetrachlori	10	8.4	84.17	70-130
20	1,2-Dichloropropan	10	10	102.51	70-130
21	Trichloroethene	10	9.9	98.76	70-130
22	cis-1,3-Dichloropr	10	11	110.73	70-130
23	trans-1,3-Dichloro	10	11	106.68	70-130
24	1,1,2-Trichloroeth	10	10	100.56	70-130
25	Toluene	10	10	105.59	70-130
27	Tetrachloroethene	10	11	106.50	70-130
29	Chlorobenzene	10	9.7	97.03	70-130
30	Ethylbenzene	10	10	102.73	70-130
31	Xylene (m,p)	20	20	99.90	70-130
32	Styrene	10	11	114.63	70-130
34	1,1,2,2-Tetrachlor	10	8.8	88.56	70-130
35	Xylene (o)	10	10	99.85	70-130
38	1,3-Dichlorobenzen	10	10	100.01	70-130
39	1,4-Dichlorobenzen	10	8.2	81.64	70-130
40	1,2-Dichlorobenzen	10	9.2	91.51	70-130

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

U3_LCSD

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 81932

Matrix: (soil/water) AIR Lab Sample ID: U3_LCSD

Sample wt/vol: 200(g/mL) ML Lab File ID: CG010BQD

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

% Moisture: not dec. _____ Date Analyzed: 03/05/01

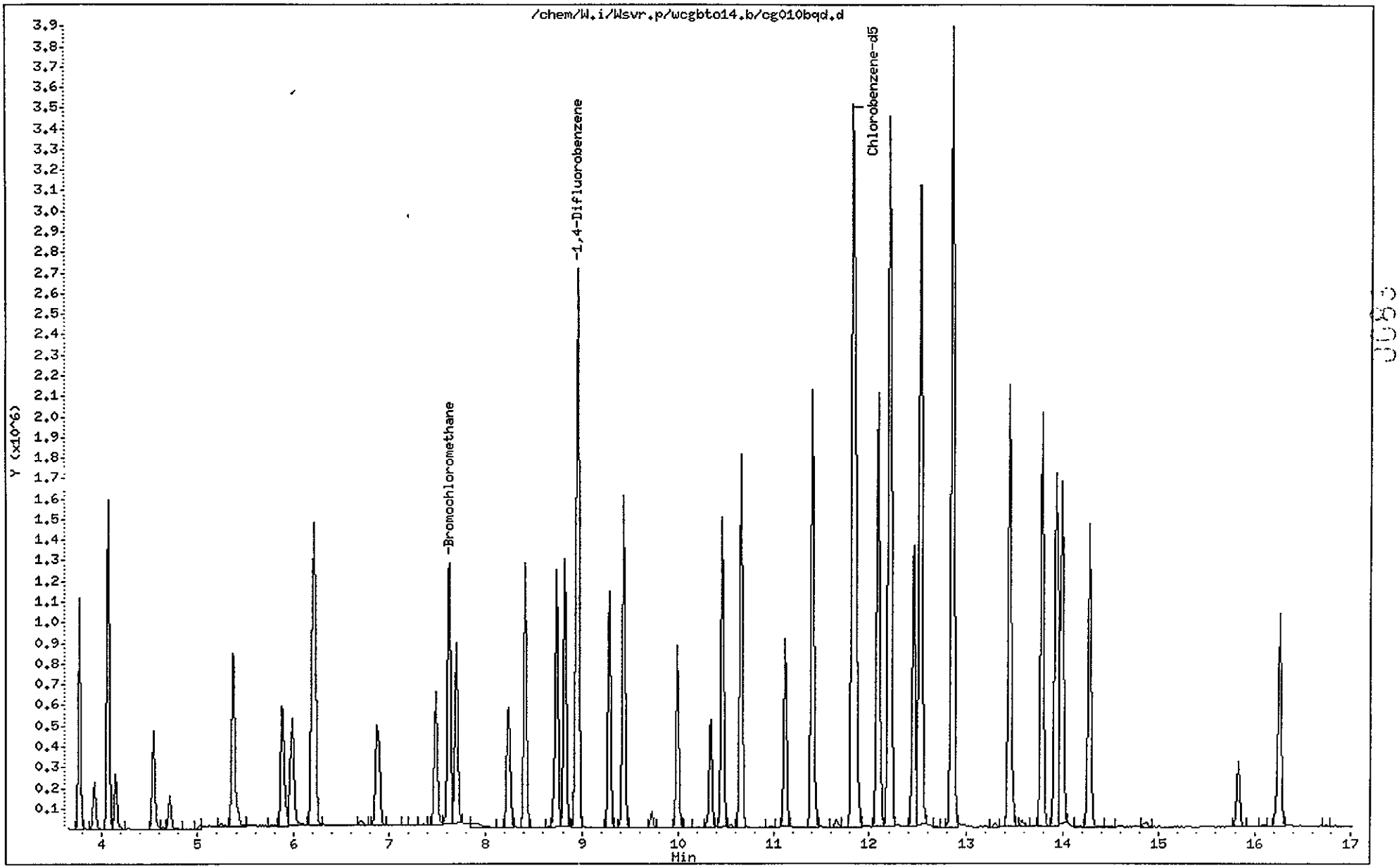
GC Column: DB-1 ID: 0.35 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) PPBV	Q
74-87-3	Chloromethane	12	
75-01-4	Vinyl Chloride	13	
74-83-9	Bromomethane	10	
75-00-3	Chloroethane	10	
75-69-4	Trichlorofluoromethane	8.6	
75-09-2	Methylene Chloride	7.4	
75-34-3	1,1-Dichloroethane	8.8	
156-59-2	cis-1,2-Dichloroethene	9.8	
67-66-3	Chloroform	8.9	
71-55-6	1,1,1-Trichloroethane	10	
56-23-5	Carbon Tetrachloride	8.3	
71-43-2	Benzene	10	
107-06-2	1,2-Dichloroethane	9.6	
79-01-6	Trichloroethene	9.7	
78-87-5	1,2-Dichloropropane	10	
10061-01-5	cis-1,3-Dichloropropene	11	
108-88-3	Toluene	10	
10061-02-6	trans-1,3-Dichloropropene	10	
79-00-5	1,1,2-Trichloroethane	10	
127-18-4	Tetrachloroethene	11	
108-90-7	Chlorobenzene	9.7	
100-41-4	Ethylbenzene	10	
1330-20-7	Xylene (total)	30	
100-42-5	Styrene	11	
1330-20-7	Xylene (m,p)	20	
95-47-6	Xylene (o)	9.7	
79-34-5	1,1,2,2-Tetrachloroethane	8.9	
541-73-1	1,3-Dichlorobenzene	9.9	
106-46-7	1,4-Dichlorobenzene	8.4	
95-50-1	1,2-Dichlorobenzene	9.4	

Data File: /chem/W.i/Wsvr.p/wcgbto14.b/cg010bqd.d
Date : 05-MAR-2001 09:25
Client ID: U3_LCSD
Sample Info: U3_LCSD;US_LCSD
Purge Volume: 200.0
Column phase: DB-1

Instrument: W.i
Operator: GMM
Column diameter: 0.35



STL Burlington

AIR TOXICS QUANTITATION REPORT

Data file : /chem/W.i/Wsvr.p/wcgbto14.b/cg010bqd.d
Lab Smp Id: U3_LCSD Client Smp ID: U3_LCSD
Inj Date : 05-MAR-2001 09:25
Operator : GMM Inst ID: W.i
Smp Info : U3_LCSD;US_LCSD
Misc Info :
Comment :
Method : /chem/W.i/Wsvr.p/wcgbto14.b/bto14a.m
Meth Date : 16-Mar-2001 15:13 mim Quant Type: ISTD
Cal Date : 20-FEB-2001 14:27 Cal File: cg040i2.d
Als bottle: 1 QC Sample: LCSD
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ACCANA2.sub
Target Version: 3.50
Processing Host: chemsvr4

Concentration Formula: Amt * DF * X* Uf/Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
X	200.00000	method volume factor
Uf	1.00000	ng unit correction factor
Vo	200.00000	Sample Volume purged (mL)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	FINAL (ppbv)
2 Chloromethane	50	3.931	4.011	(0.516)	273720	12.3149	12
4 Vinyl Chloride	62	4.147	4.242	(0.544)	289441	12.7712	13
5 Bromomethane	94	4.536	4.631	(0.595)	335250	10.5610	10
6 Chloroethane	64	4.709	4.804	(0.618)	158418	10.5026	10
7 Trichlorofluoromethane	101	5.361	5.450	(0.703)	900724	8.58844	8.6
9 Methylene Chloride	49	5.983	6.057	(0.785)	334168	7.40861	7.4
11 1,1-Dichloroethane	63	6.878	6.953	(0.902)	568642	8.79994	8.8
12 cis-1,2-Dichloroethene	61	7.485	7.529	(0.982)	437579	9.79008	9.8
* 13 Bromochloromethane	128	7.622	7.666	(1.000)	456456	10.0000	
14 Chloroform	83	7.698	7.742	(1.010)	751317	8.87941	8.9
15 1,2-Dichloroethane	62	8.244	8.273	(1.082)	562891	9.55278	9.6
16 1,1,1-Trichloroethane	97	8.411	8.455	(1.104)	797715	9.99725	10
17 Benzene	78	8.730	8.774	(0.975)	1189777	10.2103	10
18 Carbon Tetrachloride	117	8.821	8.865	(0.985)	810956	8.26690	8.3

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)
*	19 1,4-Difluorobenzene	114	8.957	8.986	(1.000)	2422030	10.0000	
	20 1,2-Dichloropropane	63	9.291	9.305	(1.037)	445397	10.2687	10
	21 Trichloroethene	95	9.428	9.457	(1.053)	560209	9.68555	9.7
	22 cis-1,3-Dichloropropene	75	9.989	10.018	(1.115)	569083	10.7432	11
	23 trans-1,3-Dichloropropene	75	10.338	10.352	(1.154)	361604	10.3107	10
	24 1,1,2-Trichloroethane	83	10.460	10.474	(1.168)	475854	10.0364	10
	25 Toluene	92	10.657	10.671	(0.901)	907479	10.4965	10
	27 Tetrachloroethene	166	11.401	11.414	(0.964)	701251	10.7141	11
*	28 Chlorobenzene-d5	117	11.825	11.839	(1.000)	2465606	10.0000	
	29 Chlorobenzene	112	11.856	11.870	(1.003)	1143730	9.68429	9.7
	30 Ethylbenzene	91	12.099	12.097	(1.023)	2089037	10.1342	10
	31 Xylene (m,p)	106	12.205	12.204	(1.032)	1480126	20.1121	20
	32 Styrene	104	12.463	12.462	(1.054)	947345	11.2185	11
M	33 Xylene (total)	106				2180246	30.2329	30
	34 1,1,2,2-Tetrachloroethane	83	12.524	12.522	(1.059)	1153921	8.94819	8.9
	35 Xylene (o)	106	12.539	12.537	(1.060)	700120	9.70838	9.7
	38 1,3-Dichlorobenzene	146	13.935	13.934	(1.178)	1103136	9.92569	9.9
	39 1,4-Dichlorobenzene	146	13.980	13.979	(1.182)	971523	8.35808	8.4
	40 1,2-Dichlorobenzene	146	14.269	14.267	(1.207)	843251	9.36731	9.4

STL Burlington

RECOVERY REPORT

Client Name:
Sample Matrix: GAS
Lab Smp Id: U3_LCSD
Level: LOW
Data Type: MS DATA
SpikeList File: ACCANA2.spk
Sublist File: ACCANA2.sub
Method File: /chem/W.i/Wsvr.p/wcgbto14.b/bto14a.m
Misc Info:

Client SDG:
Fraction: VOA
Client Smp ID: U3_LCSD
Operator: GMM
SampleType: LCSD
Quant Type: ISTD

SPIKE	COMPOUND	CONC ADDED ppbv	CONC RECOVERED ppbv	% RECOVERED	LIMIT.
2	Chloromethane	10	12	123.15	70-13
4	Vinyl Chloride	10	13	127.71	70-13
5	Bromomethane	10	10	105.61	70-13
6	Chloroethane	10	10	105.03	70-13
7	Trichlorofluoromet	10	8.6	85.88	70-13
9	Methylene Chloride	10	7.4	74.09	70-13
11	1,1-Dichloroethane	10	8.8	88.00	70-13
12	cis-1,2-Dichloroet	10	9.8	97.90	70-13
14	Chloroform	10	8.9	88.79	70-13
15	1,2-Dichloroethane	10	9.6	95.53	70-13
16	1,1,1-Trichloroeth	10	10	99.97	70-13
17	Benzene	10	10	102.10	70-13
18	Carbon Tetrachlori	10	8.3	82.67	70-13
20	1,2-Dichloropropan	10	10	102.69	70-13
21	Trichloroethene	10	9.7	96.86	70-13
22	cis-1,3-Dichloropr	10	11	107.43	70-13
23	trans-1,3-Dichloro	10	10	103.11	70-13
24	1,1,2-Trichloroeth	10	10	100.36	70-13
25	Toluene	10	10	104.96	70-13
27	Tetrachloroethene	10	11	107.14	70-13
29	Chlorobenzene	10	9.7	96.84	70-13
30	Ethylbenzene	10	10	101.34	70-13
31	Xylene (m,p)	20	20	100.56	70-13
32	Styrene	10	11	112.18	70-13
34	1,1,2,2-Tetrachlor	10	8.9	89.48	70-13
35	Xylene (o)	10	9.7	97.08	70-13
38	1,3-Dichlorobenzen	10	9.9	99.26	70-13
39	1,4-Dichlorobenzen	10	8.4	83.58	70-13
40	1,2-Dichlorobenzen	10	9.4	93.67	70-13

SEVERN
TRENT
SERVICES

Severn Trent Laboratories, Inc.

SAMPLE PREPARATION

Severn Trent Laboratories-VT
Instrument Run Log
Instrument w

Batch: wcg1014
Opened: 2 / 20 / 01 **Time:** 1005
Closed: 2 / 21 / 01 **Time:** 1005

ETR #	SDG #
81786	81786
81805	—

Tune: ✓ 2121K
ISTD Tag #: 01-1388

Temp: 19.5 °C B.P.: 29.7 "Hg

INJ. TIME	LAB ID	CAN ID #	CLIENT ID	ETR #	INLET #	SAMPLE VOLUME (mL)	DILUTION FACTOR	ISTD RECOVERY	CONC	ANALYST	COMMENTS
1005	cg001p	n/a	WBF13001	n/a	n/a	n/a	n/a	n/a	✓	GMM	
1025	cg0005	6080	ASTD0005		3	20		✓	✓		HT12,5 0003
1057	cg005	6156	005		4	25		✓	✓		AT0206.0101
1129	cg010		010			~~50~~ 50		✓	✓		
1203	cg020		020			200		✓	✓		
1238	cg040		040			200		✓	✓		
1317	cg005iz		005			25		✓	✓		
1351	cg0005iz	6080	0005		3	20		✓	✓		
1427	cg040iz	6156	040		4	200		✓	✓		
1501	cg010q	6006	SS-ICV		5			✓	✓		AT0201.0103
1606	cgbool	n/a	ABLKS8		1			✓	✓		
1714	445316	6041	-1IA-	81786	2	200	1:1	✓	✓		
1751	445317	6044	-2IA-		3			✓	✓		C
1828	445472	6005	H-19	81805	4			✓	✓		C
1904	445473	6103	D-19		5			✓	✓		C
1940	445474	6056	K-16		6			✓	✓		C
2016	445475	6171	G-11		7			✓	✓		C
2056	445476	6141	M-20		8			✓	✓		C

CCB 69

Severn Trent Laboratories-V I
Instrument Run Log
Instrument W

Batch: WCG1014
Opened: 2 / 20 / 01 **Time:** 1005
Closed: 2-1 / 21 / 01 **Time:** 1005

ETR # 81805, 81816
SDG # A7028

Tune: ✓
ISTD Tag #: 01-1388

Temp: 195 °C B.P.: 29.71 "Hg

INJ TIME	LAB ID	CAN ID #	CLIENT ID	ETR #	INLET #	SAMPLE VOLUME (mL)	DILUTION FACTOR	ISTD RECOVERY	CONC	ANALYST	COMMENTS
2128	445477	6122	Trip Blank	81805	9	200	1:1	✓	✓	GMM	C
2203	445478	6135	E-17		10			✓	✓		C
2240	445479	6118	P-10		11			✓	✓		C
2314	445480	6124	V-4		12			✓	✓		C
2347	445481	6016	WH-1		13			✓	✓		C
0024	445482	6052	WH-2		14			✓	✓		C
0059	445573	6156	-Effluent	81816	15			✓	✓		C
0713	445316d2	6041	-IA-	81786	2	18	11.1	✓	✓		C
0748	445574d	Bag	-Influent	81816	3	100	1:2.5, 2.56 102.4	✓	✓		C

Severn Trent Laboratories-VT
Instrument Run Log
Instrument W

Batch: wcgbt014
Opened: 3 / 5 / 01 **Time:** 0752
Closed: 3 / 6 / 01 **Time:** 0752

ETR #	SDG #
81870	81870
81930	81930
81932	81932

Tune: ✓ 367K
ISTD Tag #: 01-1388
Temp: 19.5 °C B.P.: 29.58 "Hg

INJ TIME	LAB ID	CAN ID #	CLIENT ID	ETR #	INLET #	SAMPLE VOLUME (mL)	DILUTION FACTOR	ISTD RECOVERY	CONC.	ANALYST	COMMENTS
[illegible]	cg003p	n/a	WBF-B003	n/a	n/a	n/a	n/a	n/a	✓	GMM	
0818	cg010b	6156	ASTD010		4	50		✓	✓		OK for ACCANA ~~STENY~~ AT02060101
0852	cg010bq	6000	U3_LCS		3	200		✓	✓		AT02010103
0925	cg010bqd	↓	U3 LCSD		3	200		✓	✓		
1013	cgb001b	n/a	ABLKU3	↓	1	200	↓	✓	✓		
1049	446046	6023	-EA-	81870	5	200	1.1	✓	✓		C
1126	446047	6017	-IA-	↓	6	200		✓	✓		C
1204	446421	SLSC001	-1780-	81930	7			✓	↑		
1243	446422	6148	-2780-		8			✓	↑		
1320	446423	6085	-ASI-		9			✓	↑		
1357	446424	6011	-TMX	↓	10			RT shift	✓		
1435 mum 3/16/01	446442	6013	-EA-	81932	11	↓	↓	✓	✓		C
1509	446421d2	SLSC001	-1780-	81930	7	20	3.64 36.4	✓			
1541	446422d2	6148	-2780-		8	20	36 36	✓			
1613	446423d2	6085	-ASI-		9	10	3.02 60.4	✓			
1650	446424.2	6011	-TMX	↓	10	200	1.1	RT shift	✓	↓	C Shift due to matrix

SEVERN TRENT SERVICES

Severn Trent Laboratories, Inc.

SAMPLE HANDLING

PLEASE FOLD THIS SHIPPING DOCUMENT IN HALF AND PLACE IT IN A WAYBILL POUCH AFFIXED TO YOUR SHIPMENT SO THAT THE BAR-CODE PORTION OF THE LABEL CAN BE READ AND SCANNED. ***WARNING: USE ONLY THE PRINTED ORIGINAL LABEL FOR SHIPPING. USING A PHOTOCOPY OF THIS LABEL FOR SHIPPING PURPOSES IS FRAUDULENT AND COULD RESULT IN ADDITIONAL BILLING CHARGES, ALONG WITH THE CANCELLATION OF YOUR FEDEX ACCOUNT NUMBER.

FROM: Randy Dumaop (904)777-4812
J.A. Jones Environmental Servic
6219 Authority Ave.

Jacksonville, FL 32221

SHIPPER'S FEDEX ACCOUNT NUMBER

FedEx
Federal Express

TO: Ron Pentkowski (802)655-1203
Severn Trent Laboratories
208 South Park Drive
Suite 1

Colchester, VT 05446-

SHIP DATE: 27FEB01
MAN-WGT: 20 LBS

REF: 154280.99.22.01.01/30857

DELIVERY ADDRESS BARCODE (FEDEX-EDR)

CAD # 4653313 **** 2DAY ****** **THU**
AA

3-1-01 0930

TRK # **7919 8434 2050** FORM 0201 **BTV** Deliver By: **01MAR01**

05446-VT-US **KF BTVA**

0092

SEVERN TRENT LABORATORIES LOG-IN SHEET - Form DC-1

Lab Name: Severn Trent Laboratories - VT Page 1 of 1

Received By (Print Name): Frank Bessette Log-in Date: _____

Received By (Signature): [signature]

Case Number: 20031

Sample Delivery Group No: 81932

ETR Number: 81932

REMARKS:

1. **Custody Seal** *Present/Absent** *Intact/Broken*
2. **Custody Seal Nos.:** /
3. **Chain-of-Custody Records** *Present/Absent**
4. **Sample Information Sheets** *Present/Absent**
5. **Airbill** *Airbill/Sticker* *Present/Absent**
6. **Airbill No.:** 7919-8434-7050
7. **Sample Tags** *Present/Absent** **Sample Tag Numbers** *Listed/Not Listed on Chain-of-Custody*
8. **Sample Condition:** *Intact/Broken** *Leaking*
9. **Does information on the custody records, sample information sheets, sample tags and labels agree?** *Yes/No**
10. **Date Received at Lab:** 3-1-01
11. **Time Received:** 0930
12. **Cooler Temperature:** N/A

Sample Transfer

Fraction: All

Area #: Level 4

By: FVS

On: 3-1-01

CORRESPONDING			
CLIENT SAMPLE #	SAMPLE TAG #	ASSIGNED LAB #	REMARKS: CONDITION OF SAMPLE SHIPMENT, ETC.
029SVESA	0226109	446447	Were air bubbles present in any VOA vials? NA
			Samples found intact in a box with unbroken Custody Seals present.
			For sample transcription removed dashes.

* Contact Project Director

Reviewed by: [signature] Logbook No.: _____

Date: 3/1/01 Logbook Page No.: _____

0093

** COOLER RECEIPT CHECKLIST **

WERE CUSTODY SEALS PRESENT ON THE COOLERS?

(YES) NO

IF SO, WERE THERE CUSTODY SEAL NUMBERS?

YES (NO)

LIST THE CUSTODY SEAL NUMBERS. _____ _____

WHAT TYPE OF COOLING WAS UTILIZED?

ICE MELTED ICE PACKS (NONE)

COOLER TEMPERATURE (degrees c): Box

DATE AND TIME COOLER RECEIVED: 3/1/01 0910

DO SAMPLES APPEAR TO BE INTACT: (YES) NO

DO ANY SAMPLES HAVE SHORT HOLDING TIMES?
(less than seven days)

WET CHEM	YES	(NO)
EXTRACTABLES	YES	(NO)
UNPRES VOA	YES	(NO)

RADIATION SCREEN RESULTS <0.05 MR/HR (YES) NO

SEVERN TRENT SERVICES

Severn Trent Laboratories, Inc.

SAMPLE DATA SUMMARY PACKAGE

SDG NO: 82093

SEVERN TRENT SERVICES

STL Burlington

March 27, 2001

Ms. Bonnie Hogue
Accura Analytical Laboratories
6017 Financial Drive
Norcross, GA 30071

Re: Laboratory Project No. 20031
Case: 20031; SDG: 82093

Dear Ms. Hogue:

Enclosed are the analytical results of samples received intact by Severn Trent Laboratories on March 15, 2001. Laboratory numbers have been assigned and designated as follows:

Lab ID	Client Sample ID	Sample Date	Sample Matrix
	Received: 03/15/01	ETR No: 82093	
447347	029SVEEA03120110	03/12/01	Air

Method TO-14A Modified-Volatile Organics;
The volatile organic analyses of the blank spike and blank spike duplicate samples, W6_LCS, exhibited percent recoveries of the target compound Methylene Chloride, which were marginally below the control criteria. These exceedences are identified on the associated Form IIIs.

Please note that client specific matrix spike/matrix spike duplicate samples were not performed, nor requested with this sample delivery group.

If there are any questions regarding this submittal, please contact Ron Pentkowski at (802) 655-1203.

This report shall not be reproduced, except in full, without the written approval of the laboratory. This report is sequentially numbered starting with page 0001 and ending with page 0106.

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SEVERN TRENT SERVICES

STL Burlington

I certify that this package is in compliance with the NELAC requirements, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Director or his designee, as verified by the following signature.

Sincerely,

Christopher A. Ouellette
Laboratory Director

RAP/ms
Enclosure

001-B last alpha

SEVERN TRENT SERVICES

Severn Trent Laboratories, Inc.

SAMPLE DATA SUMMARY PACKAGE

FOR TO-14A

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

ACCANA SAMPLE NO.

029SVEEA
03120110

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 82093

Matrix: (soil/water) AIR Lab Sample ID: 447347

Sample wt/vol: 200(g/mL) ML Lab File ID: 447347

Level: (low/med) LOW Date Received: 03/15/01

% Moisture: not dec. _____ Date Analyzed: 03/23/01

GC Column: DB-1 ID: 0.35 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) PPBV	Q
74-87-3	Chloromethane	0.82	
75-01-4	Vinyl Chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-09-2	Methylene Chloride	0.99	
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
56-23-5	Carbon Tetrachloride	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-88-3	Toluene	0.50	U
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.81	
1330-20-7	Xylene (total)	6.6	
100-42-5	Styrene	0.50	U
1330-20-7	Xylene (m,p)	4.1	
95-47-6	Xylene (o)	2.4	
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.53	
95-50-1	1,2-Dichlorobenzene	0.50	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

ACCANA SAMPLE NO.
029SVEEA
03120110

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 82093

Matrix: (soil/water) AIR Lab Sample ID: 447347

Sample wt/vol: 200 (g/mL) ML Lab File ID: 447347

Level: (low/med) LOW Date Received: 03/15/01

% Moisture: not dec. _____ Date Analyzed: 03/23/01

GC Column: DB-1 ID: 0.35 (mm) Dilution Factor: 1.0

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

Number TICs found: 10

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

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		UNKNOWN	12.66	16	J
2.		UNKNOWN	13.83	47	J
3.		UNKNOWN ALIPHATIC COMPOUND	14.12	19	J
4.		UNKNOWN C3-ALKYLBENZENE	14.18	15	J
5.		UNKNOWN C4-ALKYLBENZENE	14.65	16	J
6.		UNKNOWN ALIPHATIC COMPOUND	14.89	37	J
7.		UNKNOWN C4-ALKYLBENZENE	15.60	17	J
8.		UNKNOWN ALKANE	15.88	46	J
9.		UNKNOWN	16.44	19	J
10.		UNKNOWN ALKANE	16.79	27	J
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ABLKW6

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 82093

Matrix: (soil/water) AIR Lab Sample ID: ABLKW6

Sample wt/vol: 200(g/mL) ML Lab File ID: CGC001D

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

% Moisture: not dec. _____ Date Analyzed: 03/23/01

GC Column: DB-1 ID: 0.35 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) PPBV	Q
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl Chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-09-2	Methylene Chloride	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
56-23-5	Carbon Tetrachloride	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-88-3	Toluene	0.50	U
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
1330-20-7	Xylene (total)	0.50	U
100-42-5	Styrene	0.50	U
1330-20-7	Xylene (m,p)	0.50	U
95-47-6	Xylene (o)	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

ABLKW6

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 82093

Matrix: (soil/water) AIR Lab Sample ID: ABLKW6

Sample wt/vol: 200 (g/mL) ML Lab File ID: CGC001D

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

% Moisture: not dec. _____ Date Analyzed: 03/23/01

GC Column: DB-1 ID: 0.35 (mm) Dilution Factor: 1.0

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

Number TICs found: 0

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

	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.					

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

S8_ICVLCS

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 82093

Matrix: (soil/water) AIR Lab Sample ID: S8_ICVLCS

Sample wt/vol: 200(g/mL) ML Lab File ID: CG010Q

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

% Moisture: not dec. _____ Date Analyzed: 02/20/01

GC Column: DB-1 ID: 0.35 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) PPBV	Q
74-87-3	Chloromethane	9.0	
75-01-4	Vinyl Chloride	9.4	
74-83-9	Bromomethane	9.0	
75-00-3	Chloroethane	9.3	
75-69-4	Trichlorofluoromethane	9.7	
75-09-2	Methylene Chloride	8.4	
75-34-3	1,1-Dichloroethane	9.8	
156-59-2	cis-1,2-Dichloroethene	11	
67-66-3	Chloroform	10	
71-55-6	1,1,1-Trichloroethane	8.7	
56-23-5	Carbon Tetrachloride	10	
71-43-2	Benzene	10	
107-06-2	1,2-Dichloroethane	8.5	
79-01-6	Trichloroethene	10	
78-87-5	1,2-Dichloropropane	11	
10061-01-5	cis-1,3-Dichloropropene	11	
108-88-3	Toluene	10	
10061-02-6	trans-1,3-Dichloropropene	11	
79-00-5	1,1,2-Trichloroethane	11	
127-18-4	Tetrachloroethene	9.9	
108-90-7	Chlorobenzene	9.9	
100-41-4	Ethylbenzene	11	
1330-20-7	Xylene (total)	32	
100-42-5	Styrene	8.8	
1330-20-7	Xylene (m,p)	21	
95-47-6	Xylene (o)	10	
79-34-5	1,1,2,2-Tetrachloroethane	10	
541-73-1	1,3-Dichlorobenzene	10	
106-46-7	1,4-Dichlorobenzene	9.6	
95-50-1	1,2-Dichlorobenzene	10	

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

W6_LCS

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 82093

Matrix: (soil/water) AIR Lab Sample ID: W6_LCS

Sample wt/vol: 200(g/mL) ML Lab File ID: CG010DQ

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

% Moisture: not dec. _____ Date Analyzed: 03/23/01

GC Column: DB-1 ID: 0.35 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) PPBV	Q
74-87-3	Chloromethane	9.7	
75-01-4	Vinyl Chloride	10	
74-83-9	Bromomethane	9.5	
75-00-3	Chloroethane	10	
75-69-4	Trichlorofluoromethane	8.2	
75-09-2	Methylene Chloride	6.8	
75-34-3	1,1-Dichloroethane	8.4	
156-59-2	cis-1,2-Dichloroethene	10	
67-66-3	Chloroform	9.2	
71-55-6	1,1,1-Trichloroethane	9.2	
56-23-5	Carbon Tetrachloride	8.6	
71-43-2	Benzene	9.7	
107-06-2	1,2-Dichloroethane	8.8	
79-01-6	Trichloroethene	9.4	
78-87-5	1,2-Dichloropropane	9.9	
10061-01-5	cis-1,3-Dichloropropene	10	
108-88-3	Toluene	9.9	
10061-02-6	trans-1,3-Dichloropropene	9.9	
79-00-5	1,1,2-Trichloroethane	9.7	
127-18-4	Tetrachloroethene	10	
108-90-7	Chlorobenzene	9.3	
100-41-4	Ethylbenzene	10	
1330-20-7	Xylene (total)	29	
100-42-5	Styrene	8.8	
1330-20-7	Xylene (m,p)	19	
95-47-6	Xylene (o)	9.4	
79-34-5	1,1,2,2-Tetrachloroethane	8.7	
541-73-1	1,3-Dichlorobenzene	9.1	
106-46-7	1,4-Dichlorobenzene	7.9	
95-50-1	1,2-Dichlorobenzene	8.6	

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

W6_LCSD

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 82093

Matrix: (soil/water) AIR Lab Sample ID: W6_LCSD

Sample wt/vol: 200(g/mL) ML Lab File ID: CG010DQD

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

% Moisture: not dec. _____ Date Analyzed: 03/23/01

GC Column: DB-1 ID: 0.35 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) PPBV	Q
74-87-3	Chloromethane	10	
75-01-4	Vinyl Chloride	10	
74-83-9	Bromomethane	9.6	
75-00-3	Chloroethane	9.1	
75-69-4	Trichlorofluoromethane	8.0	
75-09-2	Methylene Chloride	6.9	
75-34-3	1,1-Dichloroethane	8.3	
156-59-2	cis-1,2-Dichloroethene	9.0	
67-66-3	Chloroform	8.8	
71-55-6	1,1,1-Trichloroethane	8.9	
56-23-5	Carbon Tetrachloride	8.6	
71-43-2	Benzene	9.8	
107-06-2	1,2-Dichloroethane	8.5	
79-01-6	Trichloroethene	9.5	
78-87-5	1,2-Dichloropropane	9.9	
10061-01-5	cis-1,3-Dichloropropene	10	
108-88-3	Toluene	9.9	
10061-02-6	trans-1,3-Dichloropropene	10	
79-00-5	1,1,2-Trichloroethane	9.7	
127-18-4	Tetrachloroethene	10	
108-90-7	Chlorobenzene	9.3	
100-41-4	Ethylbenzene	10	
1330-20-7	Xylene (total)	29	
100-42-5	Styrene	8.0	
1330-20-7	Xylene (m,p)	19	
95-47-6	Xylene (o)	9.4	
79-34-5	1,1,2,2-Tetrachloroethane	8.9	
541-73-1	1,3-Dichlorobenzene	9.5	
106-46-7	1,4-Dichlorobenzene	8.1	
95-50-1	1,2-Dichlorobenzene	9.0	

FORM 3
AIR VOLATILE LAB CONTROL SAMPLE

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 82093

Matrix Spike - Sample No.: S8_ICVLCS

COMPOUND	SPIKE ADDED (ppbv)	SAMPLE CONCENTRATION (ug/L)	LCS CONCENTRATION (ppbv)	LCS % REC #	QC. LIMITS REC.
Chloromethane	10		9.0	90	70-130
Vinyl Chloride	10		9.4	94	70-130
Bromomethane	10		9.0	90	70-130
Chloroethane	10		9.3	93	70-130
Trichlorofluoromethane	10		9.7	97	70-130
Methylene Chloride	10		8.4	84	70-130
1,1-Dichloroethane	10		9.8	98	70-130
cis-1,2-Dichloroethene	10		11	110	70-130
Chloroform	10		10	100	70-130
1,1,1-Trichloroethane	10		8.7	87	70-130
Carbon Tetrachloride	10		10	100	70-130
Benzene	10		10	100	70-130
1,2-Dichloroethane	10		8.5	85	70-130
Trichloroethene	10		10	100	70-130
1,2-Dichloropropane	10		11	110	70-130
cis-1,3-Dichloropropene	10		11	110	70-130
Toluene	10		10	100	70-130
trans-1,3-Dichloroprope	10		11	110	70-130
1,1,2-Trichloroethane	10		11	110	70-130
Tetrachloroethene	10		9.9	99	70-130
Chlorobenzene	10		9.9	99	70-130
Ethylbenzene	10		11	110	70-130
Styrene	10		8.8	88	70-130
Xylene (m,p)	20		21	105	70-130
Xylene (o)	10		10	100	70-130
1,1,2,2-Tetrachloroetha	10		10	100	70-130
1,3-Dichlorobenzene	10		10	100	70-130
1,4-Dichlorobenzene	10		9.6	96	70-130

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

* Values outside of QC limits

COMMENTS: _____

FORM 3
AIR VOLATILE LAB CONTROL SAMPLE

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 82093

Matrix Spike - Sample No.: S8_ICVLCS

COMPOUND	SPIKE ADDED (ppbv)	SAMPLE CONCENTRATION (ug/L)	LCS CONCENTRATION (ppbv)	LCS % REC #	QC. LIMITS REC.
1,2-Dichlorobenzene	10		10	100	70-130

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

* Values outside of QC limits

RPD: 0 out of 0 outside limits
Spike Recovery: 0 out of 29 outside limits

COMMENTS: _____

FORM 3
AIR VOLATILE LAB CONTROL SAMPLE

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 82093

Matrix Spike - Sample No.: W6_LCS

COMPOUND	SPIKE ADDED (ppbv)	SAMPLE CONCENTRATION (ug/L)	LCS CONCENTRATION (ppbv)	LCS % REC #	QC. LIMITS REC.
Chloromethane	10		9.7	97	70-130
Vinyl Chloride	10		10	100	70-130
Bromomethane	10		9.5	95	70-130
Chloroethane	10		10	100	70-130
Trichlorofluoromethane	10		8.2	82	70-130
Methylene Chloride	10		6.8	68*	70-130
1,1-Dichloroethane	10		8.4	84	70-130
cis-1,2-Dichloroethene	10		10	100	70-130
Chloroform	10		9.2	92	70-130
1,1,1-Trichloroethane	10		9.2	92	70-130
Carbon Tetrachloride	10		8.6	86	70-130
Benzene	10		9.7	97	70-130
1,2-Dichloroethane	10		8.8	88	70-130
Trichloroethene	10		9.4	94	70-130
1,2-Dichloropropane	10		9.9	99	70-130
cis-1,3-Dichloropropene	10		10	100	70-130
Toluene	10		9.9	99	70-130
trans-1,3-Dichloroprope	10		9.9	99	70-130
1,1,2-Trichloroethane	10		9.7	97	70-130
Tetrachloroethene	10		10	100	70-130
Chlorobenzene	10		9.3	93	70-130
Ethylbenzene	10		10	100	70-130
Styrene	10		8.8	88	70-130
Xylene (m,p)	20		19	95	70-130
Xylene (o)	10		9.4	94	70-130
1,1,2,2-Tetrachloroetha	10		8.7	87	70-130
1,3-Dichlorobenzene	10		9.1	91	70-130
1,4-Dichlorobenzene	10		7.9	79	70-130

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

* Values outside of QC limits

COMMENTS: _____

FORM 3
AIR VOLATILE LAB CONTROL SAMPLE

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 82093

Matrix Spike - Sample No.: W6_LCS

COMPOUND	SPIKE ADDED (ppbv)	SAMPLE CONCENTRATION (ug/L)	LCS CONCENTRATION (ppbv)	LCS % REC #	QC. LIMITS REC.
1,2-Dichlorobenzene	10		8.6	86	70-130

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

* Values outside of QC limits

COMMENTS: _____

FORM 3
AIR VOLATILE LAB CONTROL SAMPLE

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 82093

Matrix Spike - Sample No.: W6_LCS

COMPOUND	SPIKE ADDED (ppbv)	LCSD CONCENTRATION (ppbv)	LCSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Chloromethane	10	10	100	3	40	70-130
Vinyl Chloride	10	10	100	0	40	70-130
Bromomethane	10	9.6	96	1	40	70-130
Chloroethane	10	9.1	91	9	40	70-130
Trichlorofluoromethane	10	8.0	80	2	40	70-130
Methylene Chloride	10	6.9	69*	1	40	70-130
1,1-Dichloroethane	10	8.3	83	1	40	70-130
cis-1,2-Dichloroethene	10	9.0	90	10	40	70-130
Chloroform	10	8.8	88	4	40	70-130
1,1,1-Trichloroethane	10	8.9	89	3	40	70-130
Carbon Tetrachloride	10	8.6	86	0	40	70-130
Benzene	10	9.8	98	1	40	70-130
1,2-Dichloroethane	10	8.5	85	3	40	70-130
Trichloroethene	10	9.5	95	1	40	70-130
1,2-Dichloropropane	10	9.9	99	0	40	70-130
cis-1,3-Dichloropropene	10	10	100	0	40	70-130
Toluene	10	9.9	99	0	40	70-130
trans-1,3-Dichloroprope	10	10	100	1	40	70-130
1,1,2-Trichloroethane	10	9.7	97	0	40	70-130
Tetrachloroethene	10	10	100	0	40	70-130
Chlorobenzene	10	9.3	93	0	40	70-130
Ethylbenzene	10	10	100	0	40	70-130
Styrene	10	8.0	80	10	40	70-130
Xylene (m,p)	20	19	95	0	40	70-130
Xylene (o)	10	9.4	94	0	40	70-130
1,1,2,2-Tetrachloroetha	10	8.9	89	2	40	70-130
1,3-Dichlorobenzene	10	9.5	95	4	40	70-130
1,4-Dichlorobenzene	10	8.1	81	2	40	70-130

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

* Values outside of QC limits

COMMENTS: _____

FORM 3
AIR VOLATILE LAB CONTROL SAMPLE

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 82093

Matrix Spike - Sample No.: W6_LCS

COMPOUND	SPIKE ADDED (ppbv)	LCSD CONCENTRATION (ppbv)	LCSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
1,2-Dichlorobenzene	10	9.0	90	4	40	70-130

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

* Values outside of QC limits

RPD: 0 out of 29 outside limits
Spike Recovery: 2 out of 58 outside limits

COMMENTS: _____

FORM 4
VOLATILE METHOD BLANK SUMMARY

CLIENT SAMPLE NO.

ABLKW6

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 82093

Lab File ID: CGC001D Lab Sample ID: ABLKW6

Date Analyzed: 03/23/01 Time Analyzed: 1107

GC Column: DB-1 ID: 0.35 (mm) Heated Purge: (Y/N) N

Instrument ID: W

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

	SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	W6_LCS	W6_LCS	CG010DQ	1004
02	W6_LCSD	W6_LCSD	CG010DQD	1037
03	029SVEEA0312	447347	447347	1156
04				
05				
06				
07				
08				
09				
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11				
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30				

COMMENTS:

FORM 5
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 82093

Lab File ID: CG001P BFB Injection Date: 02/20/01

Instrument ID: W BFB Injection Time: 1005

GC Column: DB-1 ID: 0.32 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	21.6
75	30.0 - 66.0% of mass 95	47.9
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	7.0
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	50.0 - 120.0% of mass 95	65.0
175	4.0 - 9.0% of mass 174	4.6 (7.1)1
176	93.0 - 101.0% of mass 174	63.7 (98.0)1
177	5.0 - 9.0% of mass 176	4.3 (6.7)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	ASTD010	ASTD010	CG010	02/20/01	1129
02	ASTD020	ASTD020	CG020	02/20/01	1203
03	ASTD005	ASTD005	CG005I2	02/20/01	1317
04	ASTD0005	ASTD0005	CG0005I2	02/20/01	1351
05	ASTD040	ASTD040	CG040I2	02/20/01	1427
06	S8_ICVLCS	S8_ICVLCS	CG010Q	02/20/01	1501
07					
08					
09					
10					
11					
12					
13					
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19					
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21					
22					

FORM 5
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 82093

Lab File ID: CG005P BFB Injection Date: 03/23/01

Instrument ID: W BFB Injection Time: 0910

GC Column: DB-1 ID: 0.32 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	19.4
75	30.0 - 66.0% of mass 95	44.6
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.5
173	Less than 2.0% of mass 174	0.3 (0.5)1
174	50.0 - 120.0% of mass 95	72.4
175	4.0 - 9.0% of mass 174	5.4 (7.4)1
176	93.0 - 101.0% of mass 174	71.4 (98.6)1
177	5.0 - 9.0% of mass 176	4.8 (6.7)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	ASTD010	ASTD010	CG010D	03/23/01	0931
02	W6_LCS	W6_LCS	CG010DQ	03/23/01	1004
03	W6_LCSD	W6_LCSD	CG010DQD	03/23/01	1037
04	ABLKW6	ABLKW6	CGC001D	03/23/01	1107
05	029SVEEA0312	447347	447347	03/23/01	1156
06					
07					
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6A

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 82093

Instrument ID: W Calibration Date(s): 02/20/01 02/20/01

Heated Purge: (Y/N) N Calibration Time(s): 1129 1427

GC Column: DB-1 ID: 0.35 (mm)

LAB FILE ID: RRF0.5=CG0005I2 RRF5 =CG005I2
RRF10 =CG010 RRF20 =CG020 RRF40 =CG040I2

COMPOUND		RRF0.5	RRF5	RRF10	RRF20	RRF40	$\overline{RRF}$	% RSD
Chloromethane	*	0.655	0.585	0.430	0.402	0.363	0.487	25.9*
Vinyl Chloride		0.550	0.599	0.493	0.440	0.401	0.497	16.2
Bromomethane		0.834	0.845	0.664	0.595	0.539	0.695	20.0
Chloroethane		0.397	0.407	0.304	0.285	0.259	0.330	20.4
Trichlorofluoromethane		2.801	2.911	2.029	1.866	1.880	2.297	22.4
Methylene Chloride		1.636	1.087	0.773	0.716	0.728	0.988	39.8
1,1-Dichloroethane	*	1.621	1.798	1.272	1.176	1.211	1.416	19.6*
cis-1,2-Dichloroethene		1.018	1.106	0.972	0.891	0.908	0.979	8.9
Chloroform		2.138	2.154	1.729	1.606	1.642	1.854	14.6
1,1,1-Trichloroethane		1.886	2.040	1.584	1.586	1.644	1.748	11.7
Carbon Tetrachloride		0.426	0.467	0.398	0.373	0.360	0.405	10.6
Benzene		0.509	0.547	0.505	0.436	0.409	0.481	11.8
1,2-Dichloroethane		1.435	1.476	1.204	1.136	1.204	1.291	11.9
Trichloroethene		0.262	0.276	0.250	0.211	0.196	0.239	14.2
1,2-Dichloropropane		0.206	0.210	0.199	0.143	0.137	0.179	19.9
cis-1,3-Dichloropropene		0.170	0.252	0.246	0.216	0.209	0.219	15.1
Toluene		0.292	0.387	0.363	0.344	0.368	0.351	10.4
trans-1,3-Dichloropropene		0.112	0.158	0.160	0.145	0.148	0.145	13.2
1,1,2-Trichloroethane		0.222	0.232	0.210	0.171	0.145	0.196	18.7
Tetrachloroethene		0.266	0.290	0.275	0.256	0.240	0.265	7.2
Chlorobenzene	*	0.553	0.513	0.466	0.444	0.418	0.479	11.3*
Ethylbenzene		0.714	0.917	0.825	0.792	0.772	0.804	9.3
Xylene (total)		0.272	0.321	0.289	0.284	0.296	0.292	6.2
Styrene		0.296	0.352	0.377	0.359	0.328	0.342	9.1
Xylene (m,p)		0.289	0.328	0.296	0.287	0.292	0.298	5.7
Xylene (o)		0.272	0.321	0.289	0.284	0.296	0.292	6.2
1,1,2,2-Tetrachloroethane		0.598	0.576	0.493	0.472	0.475	0.523	11.4
1,3-Dichlorobenzene		0.507	0.490	0.393	0.396	0.468	0.451	11.8
1,4-Dichlorobenzene		0.529	0.409	0.464	0.484	0.470	0.471	9.1
1,2-Dichlorobenzene		0.373	0.353	0.341	0.360	0.398	0.365	5.9

* Compounds with required minimum RRF and maximim %RSD values.
All other compounds must meet a minimim RRF of 0.010.

FORM 7
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 82093

Instrument ID: W Calibration Date: 03/23/01 Time: 0931

Lab File ID: CG010D Init. Calib. Date(s): 02/20/01 02/20/01

Heated Purge: (Y/N) N Init. Calib. Times: 1129 1427

GC Column: DB-1 ID: 0.35 (mm)

COMPOUND	$\overline{RRF}$	RRF10	MIN RRF	%D	MAX %D
Chloromethane	0.487	0.550	0.1	12.9	30.0
Vinyl Chloride	0.497	0.591	0.01	18.9	30.0
Bromomethane	0.695	0.731	0.01	5.2	30.0
Chloroethane	0.330	0.366	0.01	10.9	30.0
Trichlorofluoromethane	2.297	1.936	0.01	15.7	30.0
Methylene Chloride	0.988	0.740	0.01	25.1	30.0
1,1-Dichloroethane	1.416	1.248	0.1	11.9	30.0
cis-1,2-Dichloroethene	0.979	1.045	0.01	6.7	30.0
Chloroform	1.854	1.761	0.01	5.0	30.0
1,1,1-Trichloroethane	1.748	1.671	0.01	4.4	30.0
Carbon Tetrachloride	0.405	0.375	0.01	7.4	30.0
Benzene	0.481	0.518	0.01	7.7	30.0
1,2-Dichloroethane	1.291	1.171	0.01	9.3	30.0
Trichloroethene	0.239	0.246	0.01	2.9	30.0
1,2-Dichloropropane	0.179	0.197	0.01	10.0	30.0
cis-1,3-Dichloropropene	0.219	0.249	0.01	13.7	30.0
Toluene	0.351	0.374	0.01	6.6	30.0
trans-1,3-Dichloropropene	0.145	0.160	0.01	10.3	30.0
1,1,2-Trichloroethane	0.196	0.206	0.01	5.1	30.0
Tetrachloroethene	0.265	0.290	0.01	9.4	30.0
Chlorobenzene	0.479	0.471	0.3	1.7	30.0
Ethylbenzene	0.804	0.845	0.01	5.1	30.0
Xylene (total)	0.292	0.296	0.01	1.4	30.0
Styrene	0.342	0.322	0.01	5.8	30.0
Xylene (m,p)	0.298	0.300	0.01	0.7	30.0
Xylene (o)	0.292	0.296	0.01	1.4	30.0
1,1,2,2-Tetrachloroethane	0.523	0.436	0.01	16.6	30.0
1,3-Dichlorobenzene	0.451	0.343	0.01	23.9	30.0
1,4-Dichlorobenzene	0.471	0.384	0.01	18.5	30.0
1,2-Dichlorobenzene	0.365	0.277	0.01	24.1	30.0

FORM 8
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 82093

Lab File ID (Standard): CG010D Date Analyzed: 03/23/01

Instrument ID: W Time Analyzed: 0931

GC Column: DB-1 ID: 0.35 (mm) Heated Purge: (Y/N) N

		IS1 (BCM) AREA #	RT #	IS2 (CBZ) AREA #	RT #	IS3 (DFB) AREA #	RT #
	12 HOUR STD	490459	7.65	2318539	11.87	2218153	8.99
	UPPER LIMIT	1177102	7.98	5564494	12.20	5323567	9.32
	LOWER LIMIT	196184	7.32	927416	11.54	887261	8.66
	CLIENT SAMPLE NO.						
01	W6_LCS	448289	7.68	2138653	11.87	2100019	9.00
02	W6_LCSD	453395	7.65	2121979	11.87	2067022	9.00
03	ABLKW6	443104	7.67	2113542	11.87	2123677	9.00
04	029SVEEA0312	426394	7.64	1724833	11.86	1857771	8.97
05							
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20							
21							
22							

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

AREA UPPER LIMIT = +140% of internal standard area
AREA LOWER LIMIT = - 60% of internal standard area
RT UPPER LIMIT = + 0.33 minutes of internal standard RT
RT LOWER LIMIT = - 0.33 minutes of internal standard RT

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

82093

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TRENT
SERVICES

Severn Trent
Laboratories, Inc.

SEVERN TRENT SERVICES

STL Burlington

March 27, 2001

Ms. Bonnie Hogue
Accura Analytical Laboratories
6017 Financial Drive
Norcross, GA 30071

Re: Laboratory Project No. 20031
Case: 20031; SDG: 82093

Dear Ms. Hogue:

Enclosed are the analytical results of samples received intact by Severn Trent Laboratories on March 15, 2001. Laboratory numbers have been assigned and designated as follows:

Lab ID	Client Sample ID	Sample Date	Sample Matrix
	Received: 03/15/01	ETR No: 82093	
447347	029SVEEA03120110	03/12/01	Air

Method TO-14A Modified-Volatile Organics;
The volatile organic analyses of the blank spike and blank spike duplicate samples, W6_LCS, exhibited percent recoveries of the target compound Methylene Chloride, which were marginally below the control criteria. These exceedences are identified on the associated Form IIIs.

Please note that client specific matrix spike/matrix spike duplicate samples were not performed, nor requested with this sample delivery group.

If there are any questions regarding this submittal, please contact Ron Pentkowski at (802) 655-1203.

This report shall not be reproduced, except in full, without the written approval of the laboratory. This report is sequentially numbered starting with page 0001 and ending with page 0106.

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SEVERN TRENT SERVICES

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I certify that this package is in compliance with the NELAC requirements, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Director or his designee, as verified by the following signature.

Sincerely,

Christopher A. Ouellette
Laboratory Director

RAP/ms
Enclosure

001-B last alpha

SEVERN TRENT SERVICES

Severn Trent Laboratories, Inc.

NARRATIVE

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The following Qualifiers may be used when reporting any Organic parameters analyzed by Gas Chromatography/mass Spectometry (GCMS). Any additional qualifiers used in the reports will be described in the case narrative. These flags are based on the EPA Contract Laboratory Program statement of work.

GC/MS Qualifiers

A- The reported Tentatively Identified Compound (TIC) is a suspected Aldol-condensation product.

B- The reported analyte was detected in the associated method blank as well as the sample.

D - This flag identifies all compounds identified in an analysis at a secondary dilution factor. This flag alerts data users that any discrepancies between the concentrations reported for the dilutions may be due to dilution of the sample or extract. It additionally indicates that spike recoveries may have been diluted below quantifiable levels.

E- Compound quantitation is above the instrument's calibration range for this analysis.

J - Indicates an estimated value. This flag is used when the result is less than the reporting limit, but > ½ reporting limit.

U- Indicates compound was analyzed for but not detected above the reporting limit.

X,Y,Z - Laboratory defined flags. These flags must be fully described, and such description attached to the Sample Data Summary Package and the case Narrative. Begin by using "X" and go on to "Y" as necessary. These flags may also be used to combine several flags, as needed.

115 Perimeter Center Place, N.E.
Atlanta, GA 30346-1278
Tel No (770) 604-9182 ; Fax No (770) 604-9282

PROJECT NAME	PROJECT NUMBER	LAB NAME AND CONTACT	FAX AND MAIL REPORTS/EDD TO RECIPIENT 1 (Name and Company)	
N.A.S Cecil Field 103rd Street	154282	Severn Trent Laboratories/ Ron Pentkowski	Bonnie Hogue Accura Analytical Laboratory	6017 Financial Drive Norcross, GA 30071 (770) 449-8800 Fax:(770) 449-5477
PROJECT PHASE/SITE/TASK	CTO OR DO NUMBER	LAB PO NUMBER.	FAX AND MAIL REPORTS/EDD TO RECIPIENT 2 (Name and Company)	RECIPIENT 2 (Address, Tel No , and Fax No)
103rd Street Monthly Air Sample	0029	1760	Jennifer Zimmerman / J.A Jones Env. Services	6219 Authority Ave. Building 1 Jacksonville, FL 32215 (904) 7774812 FAX: (904) 7774262
PROJECT CONTACT	PROJECT TEL NO AND FAX NO	LAB TEL NO AND FAX NO	FAX AND MAIL REPORTS/EDD TO RECIPIENT 3 (Name and Company)	RECIPIENT 3 (Address, Tel No , and Fax No)
Randy Dumaop	Ph:(904)777-4812 Fax:(904) 777-4262	Ph:(802) 655-1203	Jeff Wilmoth / CH2M Hill Constuctors, Inc.	115 Perimeter Center Place, N.E. Suite 700 Atlanta, GA 30346 (770)604-9182 Ext.561 FAX:604-9282

ITEM	SAMPLE IDENTIFIER	SAMPLE DESCRIPTION/LOCATION	MATRIX (see codes on back)	DATE COLLECTED	TIME COLLECTED	DATA PKG LEVEL (see codes on back)	TAT (calendar days)	ANALYSES REQUIRED (Include Method Numbers) Volatiles by 18 / TO 14										SAMPLE TYPE (see codes on back)	COMMENTS/ SCREENING READINGS	LAB ID
1	029-SVE-E-A-0312-01-10	SVE Effluent	A	03/12/01	8:50	III/B	7	1										Grab	Summa Canister	
2																				
3																				
4																				
5																				
6																				
7																				
8																				
9																				
10																				

SAMPLER(S) AND COMPANY (please print)	COURIER AND SHIPPING NUMBER	SAMPLES TEMPERATURE AND CONDITION UPON RECEIPT
Randy Dumaop / Scott Sloan J.A. Jones Environmental Services	Federal Express TRK# 790494328172.	

RELINQUISHED BY	DATE	TIME	RECEIVED BY	DATE	TIME
Printed Name and Signature			Printed Name and Signature		
R.Dumaop	3/13/01	11:00	Federal Express	3/13/01	11:00
Printed Name and Signature			Printed Name and Signature		
J Sink	3/15/01	0930			
Printed Name and Signature			Printed Name and Signature		

Distribution. [ ] Original - Laboratory (To be returned with Analytical Report), [ ] Copy 1 - Project File, [ ] Copy 2 - PMO

Form CC1001, Rev 02/00

SEVERN TRENT SERVICES

Severn Trent Laboratories, Inc.

METHOD TO-14A
VOLATILE ORGANIC ANALYSIS

QC SUMMARY

FORM 3
AIR VOLATILE LAB CONTROL SAMPLE

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 82093

Matrix Spike - Sample No.: S8_ICVLCS

COMPOUND	SPIKE ADDED (ppbv)	SAMPLE CONCENTRATION (ug/L)	LCS CONCENTRATION (ppbv)	LCS % REC #	QC. LIMITS REC.
Chloromethane	10		9.0	90	70-130
Vinyl Chloride	10		9.4	94	70-130
Bromomethane	10		9.0	90	70-130
Chloroethane	10		9.3	93	70-130
Trichlorofluoromethane	10		9.7	97	70-130
Methylene Chloride	10		8.4	84	70-130
1,1-Dichloroethane	10		9.8	98	70-130
cis-1,2-Dichloroethene	10		11	110	70-130
Chloroform	10		10	100	70-130
1,1,1-Trichloroethane	10		8.7	87	70-130
Carbon Tetrachloride	10		10	100	70-130
Benzene	10		10	100	70-130
1,2-Dichloroethane	10		8.5	85	70-130
Trichloroethene	10		10	100	70-130
1,2-Dichloropropane	10		11	110	70-130
cis-1,3-Dichloropropene	10		11	110	70-130
Toluene	10		10	100	70-130
trans-1,3-Dichloroprope	10		11	110	70-130
1,1,2-Trichloroethane	10		11	110	70-130
Tetrachloroethene	10		9.9	99	70-130
Chlorobenzene	10		9.9	99	70-130
Ethylbenzene	10		11	110	70-130
Styrene	10		8.8	88	70-130
Xylene (m,p)	20		21	105	70-130
Xylene (o)	10		10	100	70-130
1,1,2,2-Tetrachloroetha	10		10	100	70-130
1,3-Dichlorobenzene	10		10	100	70-130
1,4-Dichlorobenzene	10		9.6	96	70-130

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

* Values outside of QC limits

COMMENTS: _____

FORM 3
AIR VOLATILE LAB CONTROL SAMPLE

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 82093

Matrix Spike - Sample No.: S8_ICVLCS

COMPOUND	SPIKE ADDED (ppbv)	SAMPLE CONCENTRATION (ug/L)	LCS CONCENTRATION (ppbv)	LCS % REC #	QC. LIMITS REC.
1,2-Dichlorobenzene	10		10	100	70-130

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

* Values outside of QC limits

RPD: 0 out of 0 outside limits
Spike Recovery: 0 out of 29 outside limits

COMMENTS: _____

FORM 3
AIR VOLATILE LAB CONTROL SAMPLE

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 82093

Matrix Spike - Sample No.: W6_LCS

COMPOUND	SPIKE ADDED (ppbv)	SAMPLE CONCENTRATION (ug/L)	LCS CONCENTRATION (ppbv)	LCS % REC #	QC. LIMITS REC.
Chloromethane	10		9.7	97	70-130
Vinyl Chloride	10		10	100	70-130
Bromomethane	10		9.5	95	70-130
Chloroethane	10		10	100	70-130
Trichlorofluoromethane	10		8.2	82	70-130
Methylene Chloride	10		6.8	68*	70-130
1,1-Dichloroethane	10		8.4	84	70-130
cis-1,2-Dichloroethene	10		10	100	70-130
Chloroform	10		9.2	92	70-130
1,1,1-Trichloroethane	10		9.2	92	70-130
Carbon Tetrachloride	10		8.6	86	70-130
Benzene	10		9.7	97	70-130
1,2-Dichloroethane	10		8.8	88	70-130
Trichloroethene	10		9.4	94	70-130
1,2-Dichloropropane	10		9.9	99	70-130
cis-1,3-Dichloropropene	10		10	100	70-130
Toluene	10		9.9	99	70-130
trans-1,3-Dichloroprope	10		9.9	99	70-130
1,1,2-Trichloroethane	10		9.7	97	70-130
Tetrachloroethene	10		10	100	70-130
Chlorobenzene	10		9.3	93	70-130
Ethylbenzene	10		10	100	70-130
Styrene	10		8.8	88	70-130
Xylene (m,p)	20		19	95	70-130
Xylene (o)	10		9.4	94	70-130
1,1,2,2-Tetrachloroetha	10		8.7	87	70-130
1,3-Dichlorobenzene	10		9.1	91	70-130
1,4-Dichlorobenzene	10		7.9	79	70-130

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

* Values outside of QC limits

COMMENTS: _____

FORM 3
AIR VOLATILE LAB CONTROL SAMPLE

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 82093

Matrix Spike - Sample No.: W6_LCS

COMPOUND	SPIKE ADDED (ppbv)	SAMPLE CONCENTRATION (ug/L)	LCS CONCENTRATION (ppbv)	LCS % REC #	QC. LIMITS REC.
1,2-Dichlorobenzene	10		8.6	86	70-130

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

* Values outside of QC limits

COMMENTS: _____

FORM 3
AIR VOLATILE LAB CONTROL SAMPLE

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 82093

Matrix Spike - Sample No.: W6_LCS

COMPOUND	SPIKE ADDED (ppbv)	LCSD CONCENTRATION (ppbv)	LCSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Chloromethane	10	10	100	3	40	70-130
Vinyl Chloride	10	10	100	0	40	70-130
Bromomethane	10	9.6	96	1	40	70-130
Chloroethane	10	9.1	91	9	40	70-130
Trichlorofluoromethane	10	8.0	80	2	40	70-130
Methylene Chloride	10	6.9	69*	1	40	70-130
1,1-Dichloroethane	10	8.3	83	1	40	70-130
cis-1,2-Dichloroethene	10	9.0	90	10	40	70-130
Chloroform	10	8.8	88	4	40	70-130
1,1,1-Trichloroethane	10	8.9	89	3	40	70-130
Carbon Tetrachloride	10	8.6	86	0	40	70-130
Benzene	10	9.8	98	1	40	70-130
1,2-Dichloroethane	10	8.5	85	3	40	70-130
Trichloroethene	10	9.5	95	1	40	70-130
1,2-Dichloropropane	10	9.9	99	0	40	70-130
cis-1,3-Dichloropropene	10	10	100	0	40	70-130
Toluene	10	9.9	99	0	40	70-130
trans-1,3-Dichloroprope	10	10	100	1	40	70-130
1,1,2-Trichloroethane	10	9.7	97	0	40	70-130
Tetrachloroethene	10	10	100	0	40	70-130
Chlorobenzene	10	9.3	93	0	40	70-130
Ethylbenzene	10	10	100	0	40	70-130
Styrene	10	8.0	80	10	40	70-130
Xylene (m,p)	20	19	95	0	40	70-130
Xylene (o)	10	9.4	94	0	40	70-130
1,1,2,2-Tetrachloroetha	10	8.9	89	2	40	70-130
1,3-Dichlorobenzene	10	9.5	95	4	40	70-130
1,4-Dichlorobenzene	10	8.1	81	2	40	70-130

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

* Values outside of QC limits

COMMENTS: _____

FORM 3
AIR VOLATILE LAB CONTROL SAMPLE

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 82093

Matrix Spike - Sample No.: W6_LCS

COMPOUND	SPIKE ADDED (ppbv)	LCSD CONCENTRATION (ppbv)	LCSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
1,2-Dichlorobenzene	10	9.0	90	4	40	70-130

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

* Values outside of QC limits

RPD: 0 out of 29 outside limits
Spike Recovery: 2 out of 58 outside limits

COMMENTS: _____

FORM 4
VOLATILE METHOD BLANK SUMMARY

CLIENT SAMPLE NO.

ABLKW6

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 82093

Lab File ID: CGC001D Lab Sample ID: ABLKW6

Date Analyzed: 03/23/01 Time Analyzed: 1107

GC Column: DB-1 ID: 0.35 (mm) Heated Purge: (Y/N) N

Instrument ID: W

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

	SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	W6_LCS	W6_LCS	CG010DQ	1004
02	W6_LCSD	W6_LCSD	CG010DQD	1037
03	029SVEEA0312	447347	447347	1156
04				
05				
06				
07				
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COMMENTS:

FORM 5
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 82093

Lab File ID: CG001P BFB Injection Date: 02/20/01

Instrument ID: W BFB Injection Time: 1005

GC Column: DB-1 ID: 0.32 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	21.6
75	30.0 - 66.0% of mass 95	47.9
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	7.0
173	Less than 2.0% of mass 174	0.0 (0.0)1
174	50.0 - 120.0% of mass 95	65.0
175	4.0 - 9.0% of mass 174	4.6 (7.1)1
176	93.0 - 101.0% of mass 174	63.7 (98.0)1
177	5.0 - 9.0% of mass 176	4.3 (6.7)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	ASTD010	ASTD010	CG010	02/20/01	1129
02	ASTD020	ASTD020	CG020	02/20/01	1203
03	ASTD005	ASTD005	CG005I2	02/20/01	1317
04	ASTD0005	ASTD0005	CG0005I2	02/20/01	1351
05	ASTD040	ASTD040	CG040I2	02/20/01	1427
06	S8_ICVLCS	S8_ICVLCS	CG010Q	02/20/01	1501
07					
08					
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FORM 5
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 82093

Lab File ID: CG005P BFB Injection Date: 03/23/01

Instrument ID: W BFB Injection Time: 0910

GC Column: DB-1 ID: 0.32 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	19.4
75	30.0 - 66.0% of mass 95	44.6
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.5
173	Less than 2.0% of mass 174	0.3 (0.5)1
174	50.0 - 120.0% of mass 95	72.4
175	4.0 - 9.0% of mass 174	5.4 (7.4)1
176	93.0 - 101.0% of mass 174	71.4 (98.6)1
177	5.0 - 9.0% of mass 176	4.8 (6.7)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	ASTD010	ASTD010	CG010D	03/23/01	0931
02	W6_LCS	W6_LCS	CG010DQ	03/23/01	1004
03	W6_LCSD	W6_LCSD	CG010DQD	03/23/01	1037
04	ABLKW6	ABLKW6	CGC001D	03/23/01	1107
05	029SVEEA0312	447347	447347	03/23/01	1156
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

FORM 8
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 82093

Lab File ID (Standard): CG010D Date Analyzed: 03/23/01

Instrument ID: W Time Analyzed: 0931

GC Column: DB-1 ID: 0.35 (mm) Heated Purge: (Y/N) N

		IS1 (BCM) AREA #	RT #	IS2 (CBZ) AREA #	RT #	IS3 (DFB) AREA #	RT #
	12 HOUR STD	490459	7.65	2318539	11.87	2218153	8.99
	UPPER LIMIT	1177102	7.98	5564494	12.20	5323567	9.32
	LOWER LIMIT	196184	7.32	927416	11.54	887261	8.66
	CLIENT SAMPLE NO.						
01	W6_LCS	448289	7.68	2138653	11.87	2100019	9.00
02	W6_LCSD	453395	7.65	2121979	11.87	2067022	9.00
03	ABLKW6	443104	7.67	2113542	11.87	2123677	9.00
04	029SVEEA0312	426394	7.64	1724833	11.86	1857771	8.97
05							
06							
07							
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20							
21							
22							

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

AREA UPPER LIMIT = +140% of internal standard area
AREA LOWER LIMIT = - 60% of internal standard area
RT UPPER LIMIT = + 0.33 minutes of internal standard RT
RT LOWER LIMIT = - 0.33 minutes of internal standard RT

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

SEVERN TRENT SERVICES

Severn Trent Laboratories, Inc.

METHOD TO-14A
VOLATILE ORGANIC ANALYSIS

SUPPORTIVE DOCUMENTATION

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

ACCANA SAMPLE NO.

029SVEEA
03120110

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 82093

Matrix: (soil/water) AIR Lab Sample ID: 447347

Sample wt/vol: 200(g/mL) ML Lab File ID: 447347

Level: (low/med) LOW Date Received: 03/15/01

% Moisture: not dec. _____ Date Analyzed: 03/23/01

GC Column: DB-1 ID: 0.35 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) PPBV	Q
74-87-3	Chloromethane	0.82	
75-01-4	Vinyl Chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-09-2	Methylene Chloride	0.99	
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
56-23-5	Carbon Tetrachloride	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-88-3	Toluene	0.50	U
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.81	
1330-20-7	Xylene (total)	6.6	
100-42-5	Styrene	0.50	U
1330-20-7	Xylene (m,p)	4.1	
95-47-6	Xylene (o)	2.4	
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.53	
95-50-1	1,2-Dichlorobenzene	0.50	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

ACCANA SAMPLE NO.
029SVEEA
03120110

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 82093

Matrix: (soil/water) AIR Lab Sample ID: 447347

Sample wt/vol: 200 (g/mL) ML Lab File ID: 447347

Level: (low/med) LOW Date Received: 03/15/01

% Moisture: not dec. _____ Date Analyzed: 03/23/01

GC Column: DB-1 ID: 0.35 (mm) Dilution Factor: 1.0

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

Number TICs found: 10

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

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		UNKNOWN	12.66	16	J
2.		UNKNOWN	13.83	47	J
3.		UNKNOWN ALIPHATIC COMPOUND	14.12	19	J
4.		UNKNOWN C3-ALKYLBENZENE	14.18	15	J
5.		UNKNOWN C4-ALKYLBENZENE	14.65	16	J
6.		UNKNOWN ALIPHATIC COMPOUND	14.89	37	J
7.		UNKNOWN C4-ALKYLBENZENE	15.60	17	J
8.		UNKNOWN ALKANE	15.88	46	J
9.		UNKNOWN	16.44	19	J
10.		UNKNOWN ALKANE	16.79	27	J
11.					
12.					
13.					
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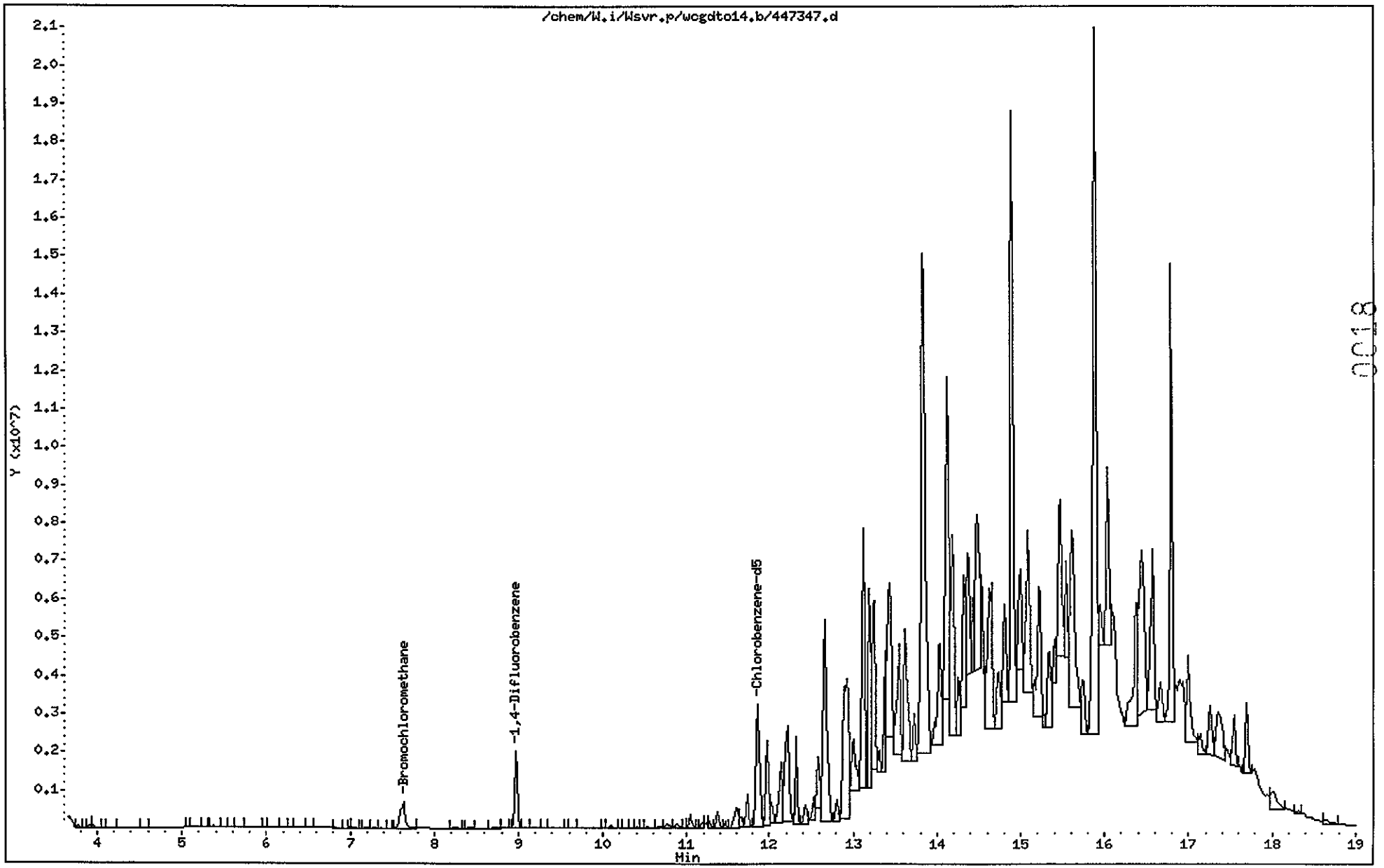
Data File: /chem/W.i/Wsvr.p/wcgdto14.b/447347.d
Date : 23-MAR-2001 11:56
Client ID: 029SVEEA03120110
Sample Info: 447347;029SVEEA03120110;82096;0323W6
Purge Volume: 200.0
Column phase: DB-1

Instrument: W.i
Operator: CMM
Column diameter: 0.35



STL Burlington

AIR TOXICS QUANTITATION REPORT

Data file : /chem/W.i/Wsvr.p/wcgdto14.b/447347.d
Lab Smp Id: 447347 Client Smp ID: 029SVEEA03120110
Inj Date : 23-MAR-2001 11:56
Operator : GMM Inst ID: W.i
Smp Info : 447347;029SVEEA03120110;82096;0323W6
Misc Info :
Comment :
Method : /chem/W.i/Wsvr.p/wcgdto14.b/bto14a.m
Meth Date : 27-Mar-2001 10:20 mim Quant Type: ISTD
Cal Date : 20-FEB-2001 14:27 Cal File: cg040i2.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ACCANA2.sub
Target Version: 3.50
Processing Host: chemsvr4

Concentration Formula: Amt * DF * X* Uf/Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
X	200.00000	method volume factor
Uf	1.00000	ng unit correction factor
Vo	200.00000	Sample Volume purged (mL)

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	FINAL (ppbv)
2	Chloromethane	50	3.945	4.011	(0.517)	17019	0.81968	0.82
4	Vinyl Chloride	62	Compound Not Detected.					
5	Bromomethane	94	Compound Not Detected.					
6	Chloroethane	64	Compound Not Detected.					
7	Trichlorofluoromethane	101	Compound Not Detected.					
9	Methylene Chloride	49	5.982	6.057	(0.783)	41879	0.99393	0.99(M)
11	1,1-Dichloroethane	63	Compound Not Detected.					
12	cis-1,2-Dichloroethene	61	Compound Not Detected.					
* 13	Bromochloromethane	128	7.637	7.666	(1.000)	426394	10.0000	
14	Chloroform	83	Compound Not Detected.					
15	1,2-Dichloroethane	62	Compound Not Detected.					
16	1,1,1-Trichloroethane	97	Compound Not Detected.					
17	Benzene	78	Compound Not Detected.					
18	Carbon Tetrachloride	117	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)
*	19 1,4-Difluorobenzene	114	8.972	8.986	(1.000)	1857771	10.0000	
	20 1,2-Dichloropropane	63	Compound Not Detected.					
	21 Trichloroethene	95	Compound Not Detected.					
	22 cis-1,3-Dichloropropene	75	Compound Not Detected.					
	23 trans-1,3-Dichloropropene	75	Compound Not Detected.					
	24 1,1,2-Trichloroethane	83	Compound Not Detected.					
	25 Toluene	92	Compound Not Detected.					
	27 Tetrachloroethene	166	Compound Not Detected.					
*	28 Chlorobenzene-d5	117	11.855	11.839	(1.000)	1724833	10.0000	
	29 Chlorobenzene	112	Compound Not Detected.					
	30 Ethylbenzene	91	12.129	12.097	(1.023)	112222	0.80920	0.81
	31 Xylene (m,p)	106	12.235	12.204	(1.032)	213067	4.13859	4.1
	32 Styrene	104	Compound Not Detected.					
M	33 Xylene (total)	106				335294	6.64625	6.6
	34 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					
	35 Xylene (o)	106	12.569	12.537	(1.060)	122227	2.42280	2.4
	38 1,3-Dichlorobenzene	146	Compound Not Detected.					
	39 1,4-Dichlorobenzene	146	14.025	13.979	(1.183)	42829	0.52671	0.53(Q)
	40 1,2-Dichlorobenzene	146	Compound Not Detected.					

QC Flag Legend

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

MWM 03/27/01

STL Burlington

AIR TOXICS QUANTITATION REPORT

Data file : /chem/W.i/Wsvr.p/wcgdto14.b/447347.d
Lab Smp Id: 447347 Client Smp ID: 029SVEEA03120110
Inj Date : 23-MAR-2001 11:56
Operator : GMM Inst ID: W.i
Smp Info : 447347;029SVEEA03120110;82096;0323W6
Misc Info :
Comment :
Method : /chem/W.i/Wsvr.p/wcgdto14.b/bto14a.m
Meth Date : 27-Mar-2001 10:20 mim Quant Type: ISTD
Cal Date : 20-FEB-2001 14:27 Cal File: cg040i2.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ACCANA2.sub
Target Version: 3.50
Processing Host: chemsvr4

Concentration Formula: Amt * DF * X* Uf/Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
X	200.00000	method volume factor
Uf	1.00000	ng unit correction factor
Vo	200.00000	Sample Volume purged (mL)

Cpnd Variable Local Compound Variable

ISTD	RT	AREA	AMOUNT
* 28 Chlorobenzene-d5	11.855	10442773	10.000

	CONCENTRATIONS			QUANT		
RT	AREA	ON-COL(ppbv)	FINAL(ppbv)	QUAL	LIBRARY	LIB ENTRY	CPND #
Unknown				CAS #:			
12.660	16749248	16.0390792	16	0		0	28
Unknown				CAS #:			
13.828	48672904	46.6091722	47	0		0	28

RT	AREA	CONCENTRATIONS ON-COL(ppbv)	FINAL(ppbv)	QUAL	QUANT LIBRARY	LIB ENTRY	CPND #
Unknown aliphatic compound				CAS #:			
14.117	20278293	19.4184935	19	0		0	28
Unknown C3-alkylbenzene				CAS #:			
14.177	15931460	15.2559655	15	0		0	28
Unknown C4-alkylbenzene				CAS #:			
14.648	17222685	16.4924427	16	0		0	28
Unknown aliphatic compound				CAS #:			
14.891	38526024	36.8925200	37	0		0	28
Unknown C4-alkylbenzene				CAS #:			
15.604	17607376	16.8608233	17	0		0	28
Unknown alkane				CAS #:			
15.877	47797655	45.7710340	46	0		0	28
Unknown				CAS #:			
16.438	19947397	19.1016272	19	0		0	28
Unknown alkane				CAS #:			
16.787	27993201	26.8062892	27	0		0	28

Data File: /chem/W.i/Wsvr.p/wcgdto14.b/447347.d

Date : 23-MAR-2001 11:56

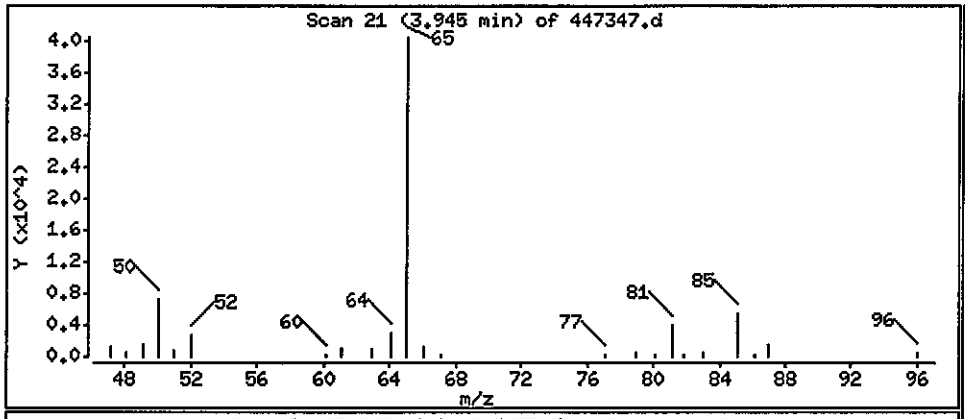
Client ID: 029SVEEA03120110 Instrument: W.i

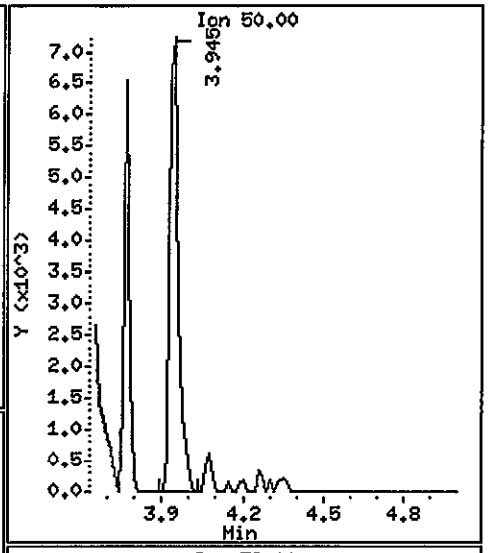
Sample Info: 447347;029SVEEA03120110;82096;0323W6

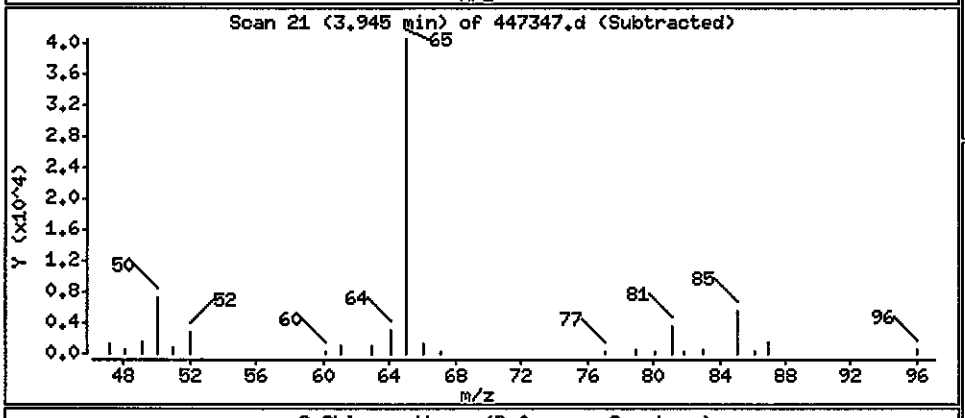
Purge Volume: 200.0 Operator: GHM

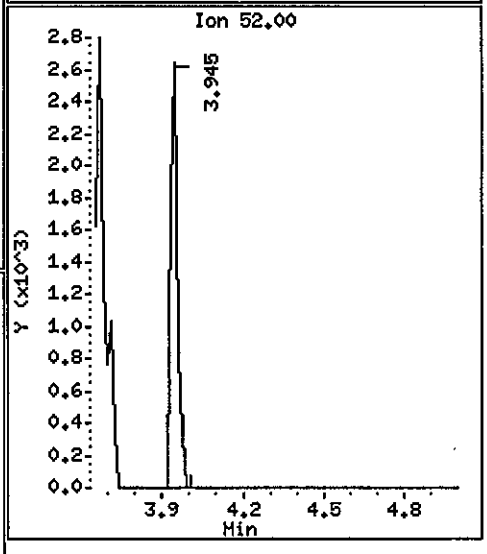
Column phase: DB-1 Column diameter: 0.35

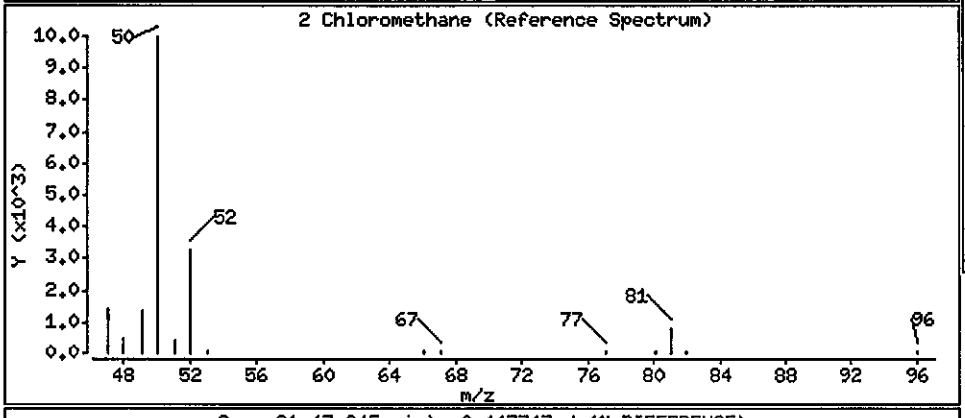
2 Chloromethane Concentration: 0.82 ppbv

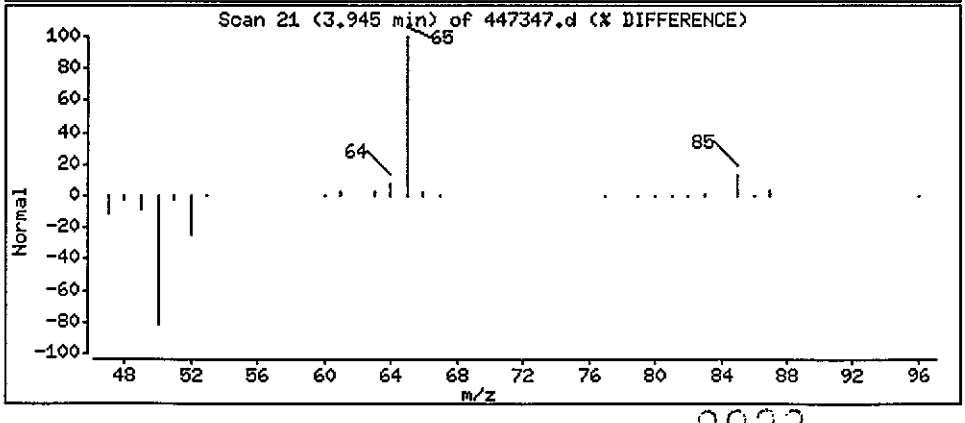












0023

Data File: /chem/W.i/Wsvr.p/wcgdto14.b/447347.d

Date : 23-MAR-2001 11:56

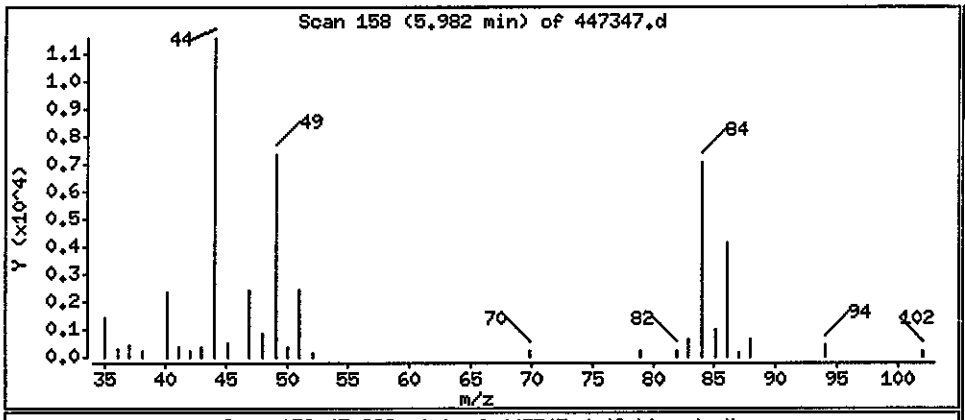
Client ID: 029SVEEA03120110 Instrument: W.i

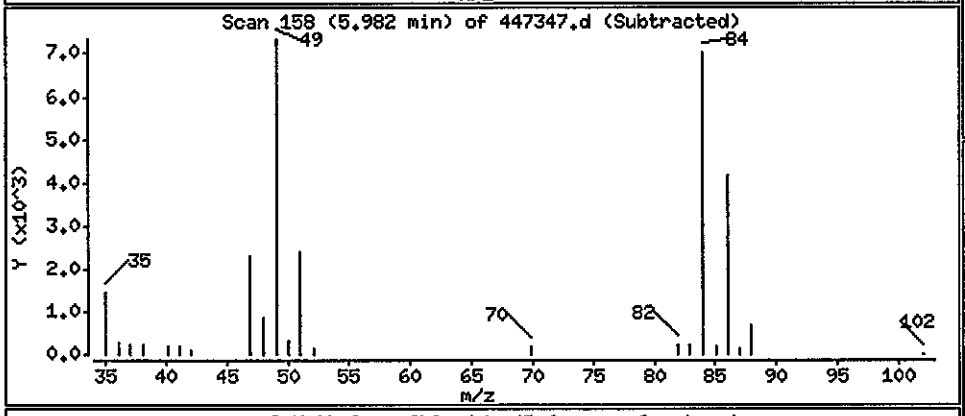
Sample Info: 447347;029SVEEA03120110;82096;0323W6

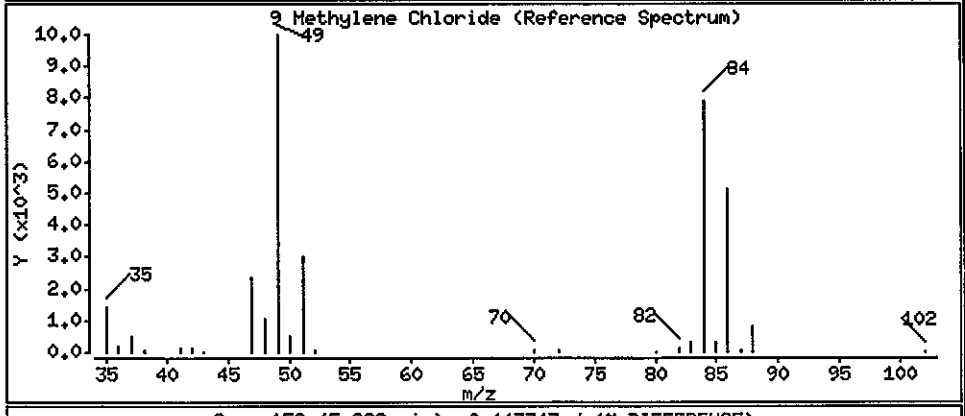
Purge Volume: 200.0 Operator: GHM

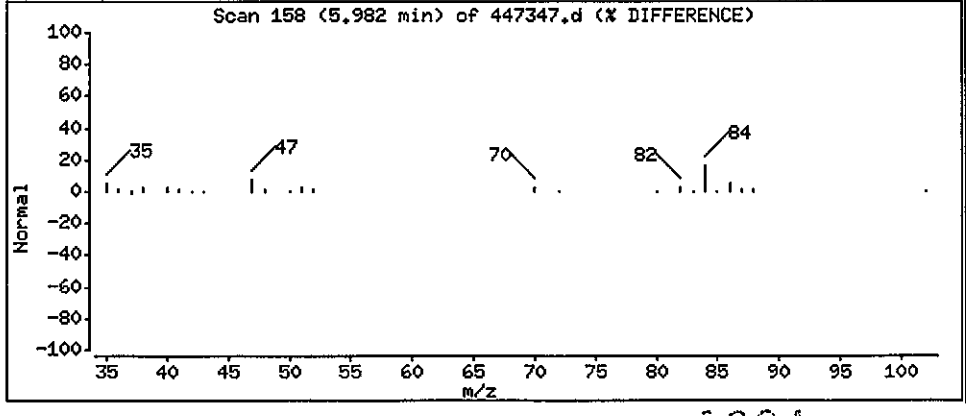
Column phase: DB-1 Column diameter: 0.35

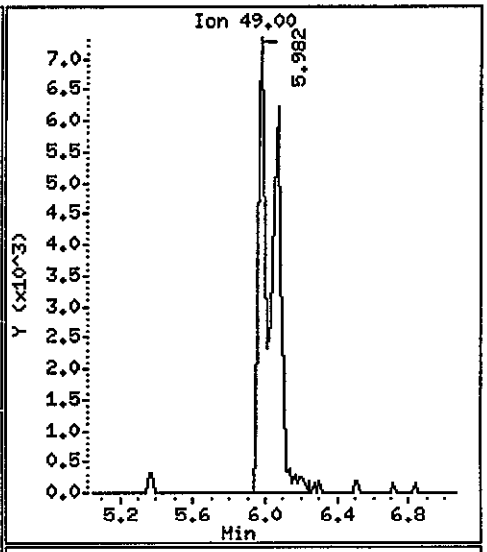
9 Methylene Chloride Concentration: 0.99 ppbv

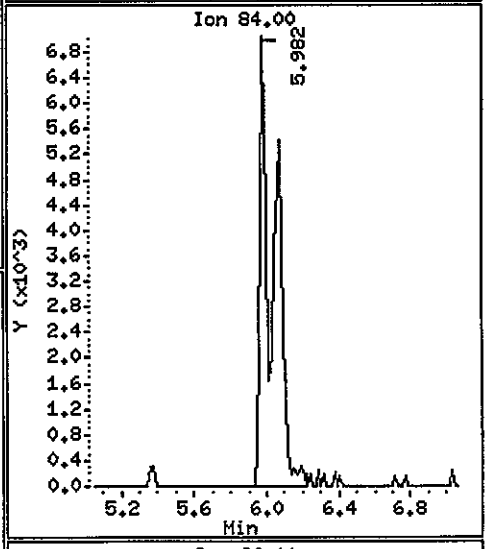


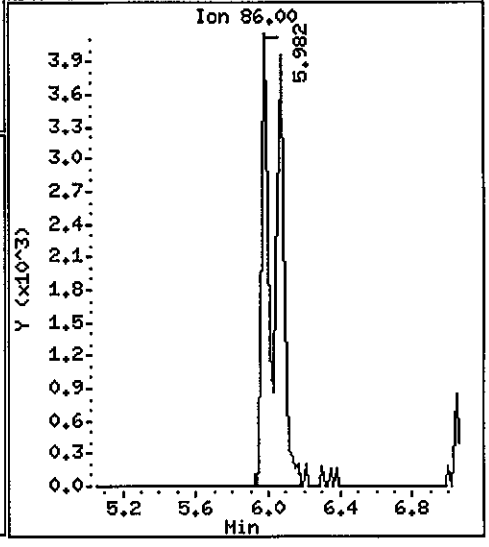












Data File: /chem/W.i/Wsvr.p/wcgdto14.b/447347.d

Date : 23-MAR-2001 11:56

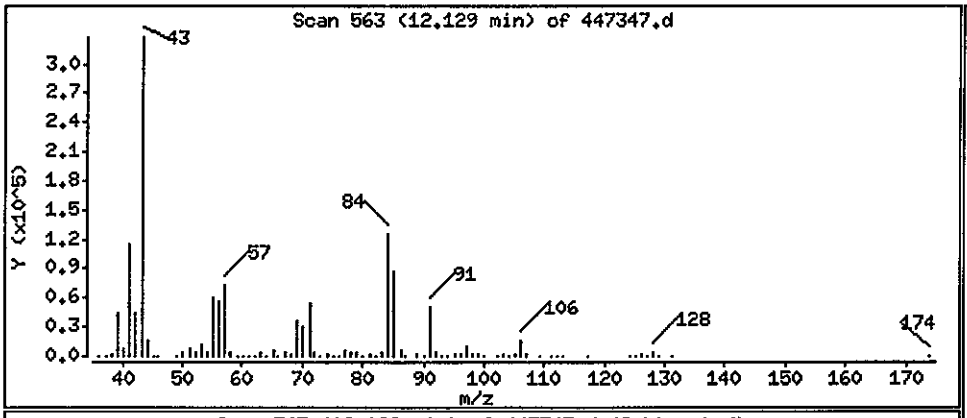
Client ID: 029SVEEA03120110 Instrument: W.i

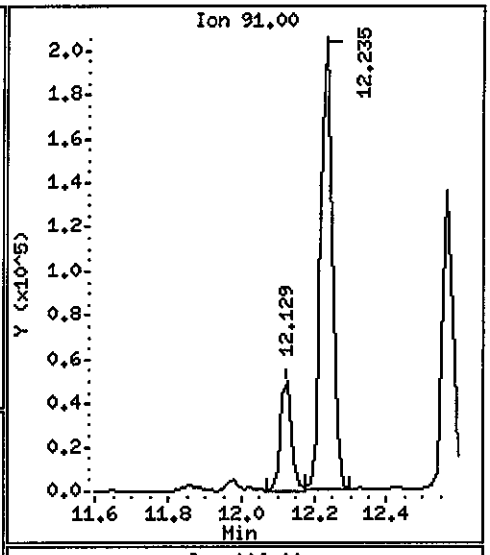
Sample Info: 447347;029SVEEA03120110;82096;0323W6

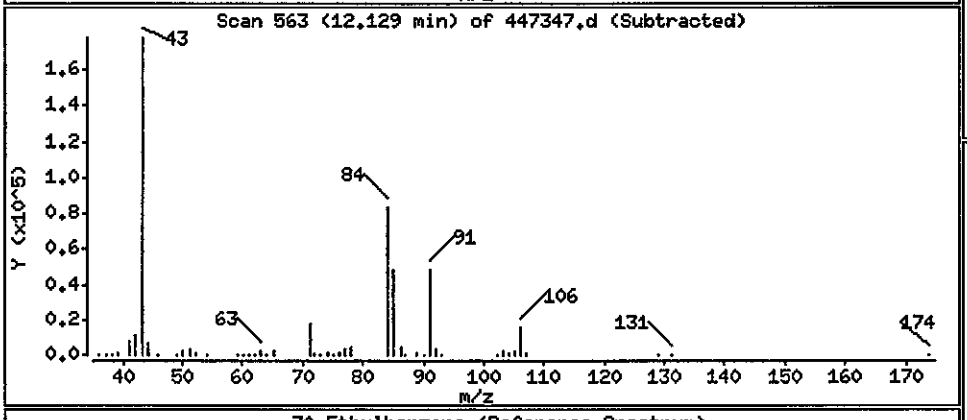
Purge Volume: 200.0 Operator: GMM

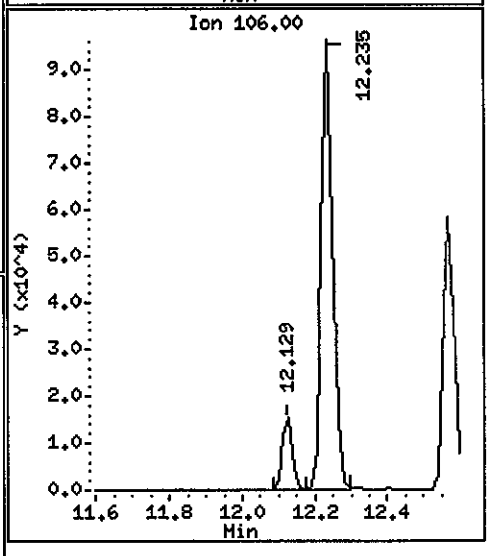
Column phase: DB-1 Column diameter: 0.35

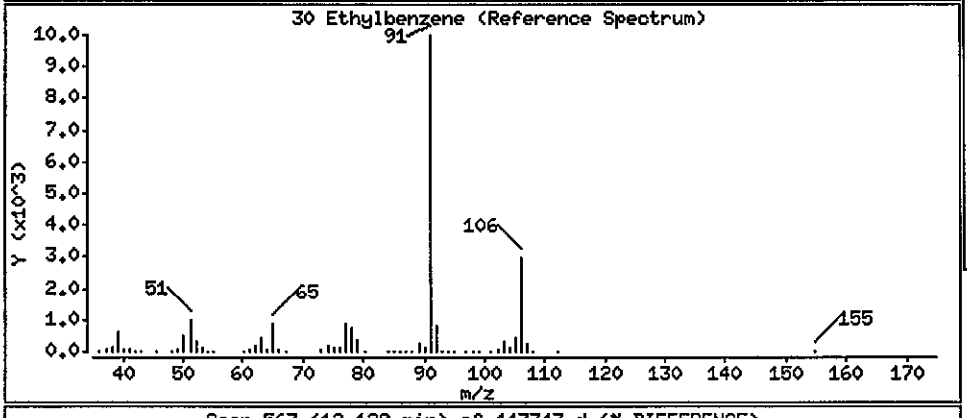
30 Ethylbenzene Concentration: 0.81 ppbv

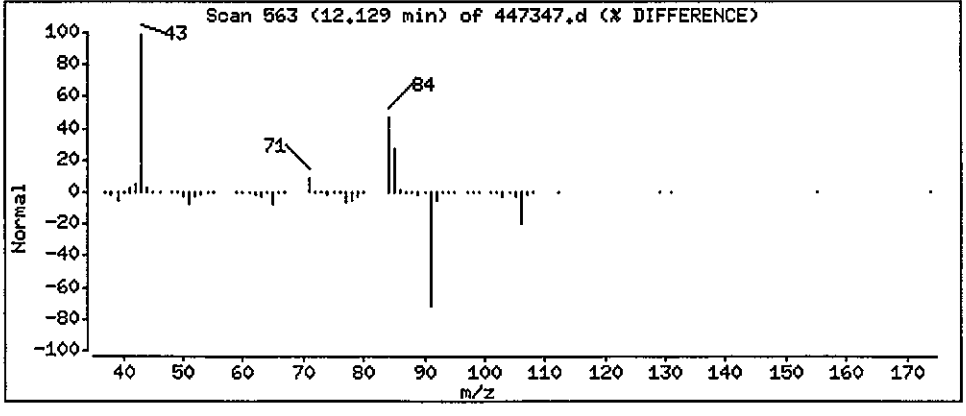












Data File: /chem/W.i/Wsvr.p/wcgdto14.b/447347.d

Date : 23-MAR-2001 11:56

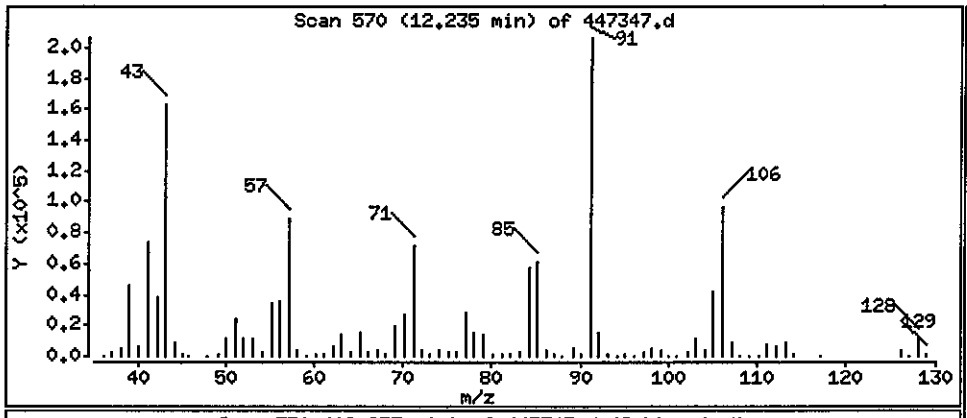
Client ID: 029SVEEA03120110 Instrument: W.i

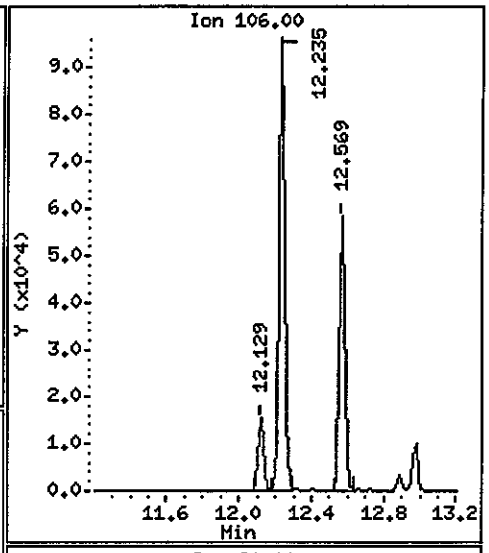
Sample Info: 447347;029SVEEA03120110;82096;0323W6

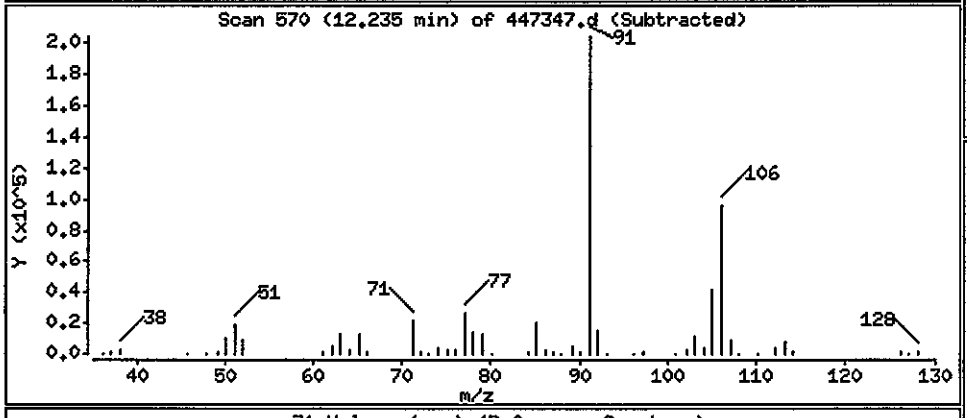
Purge Volume: 200.0 Operator: GMM

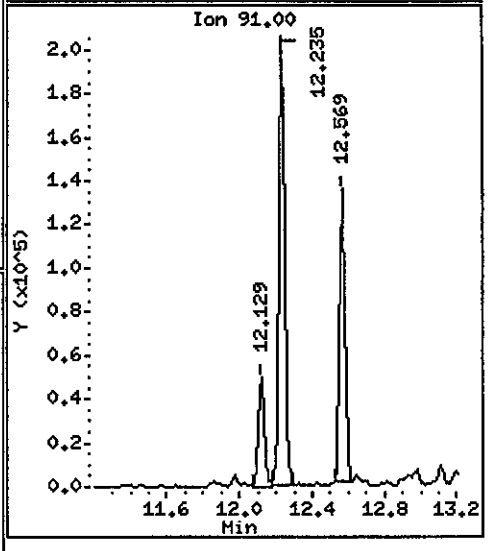
Column phase: DB-1 Column diameter: 0.35

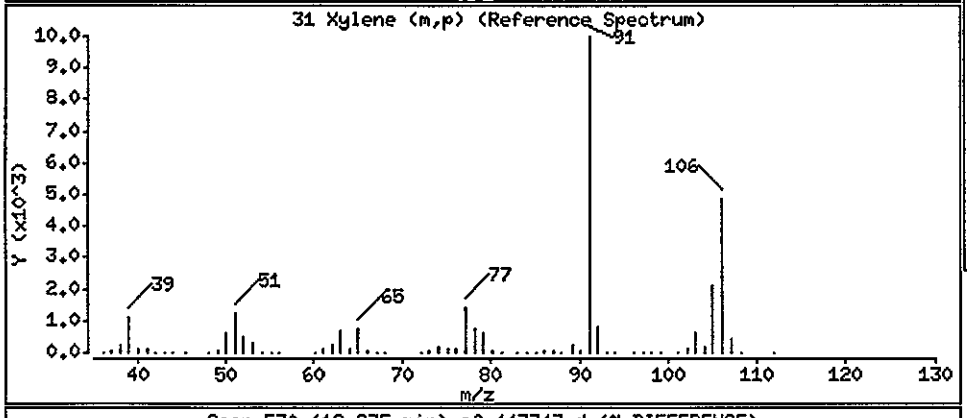
31 Xylene (m,p) Concentration: 4.1 ppbv

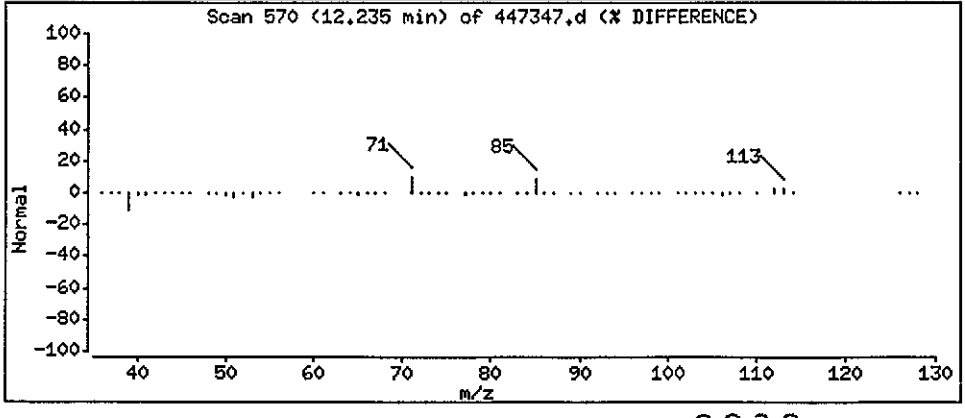












Data File: /chem/W.i/Wsvr.p/wcgdto14.b/447347.d

Date : 23-MAR-2001 11:56

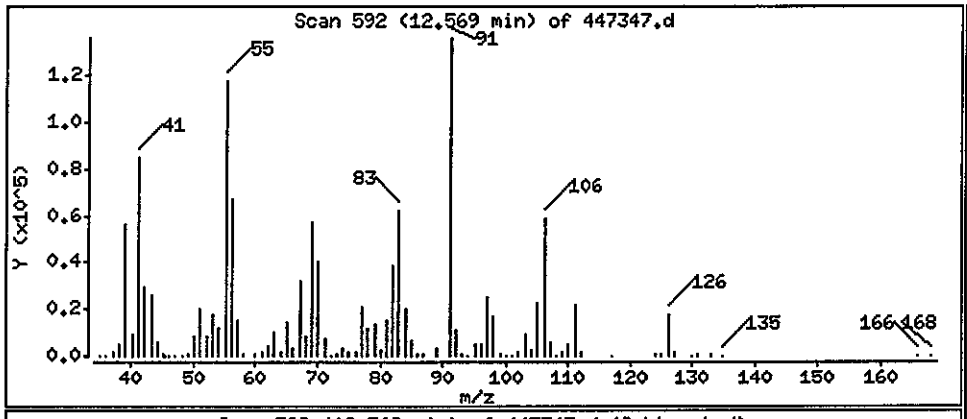
Client ID: 029SVEEA03120110 Instrument: W.i

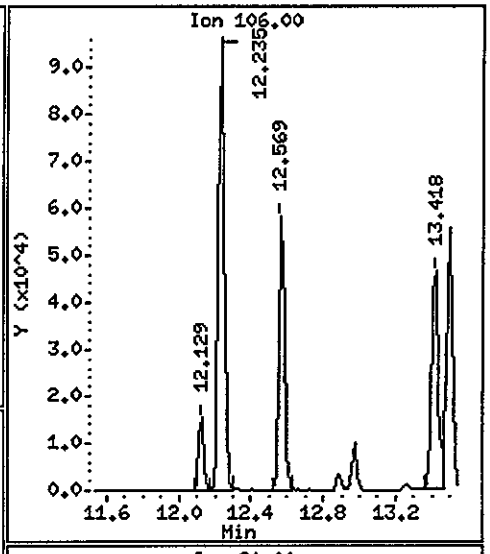
Sample Info: 447347;029SVEEA03120110;82096;0323W6

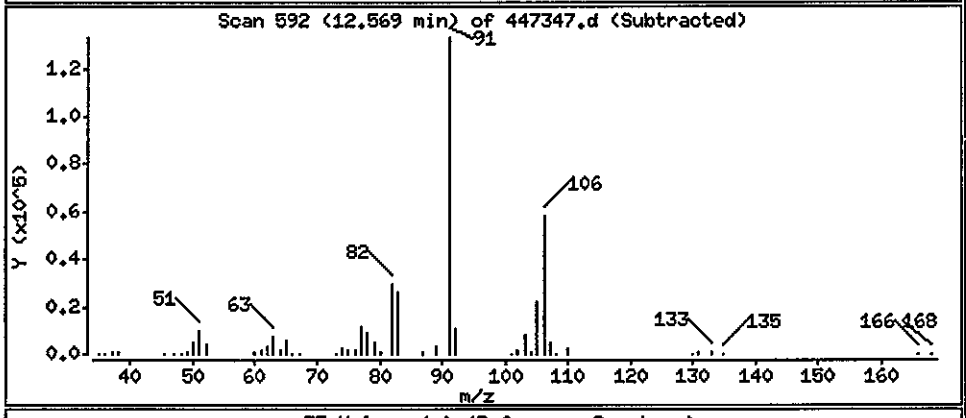
Purge Volume: 200.0 Operator: GMM

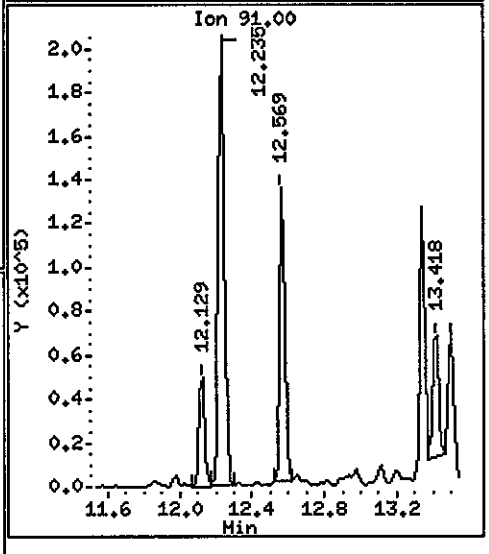
Column phase: DB-1 Column diameter: 0.35

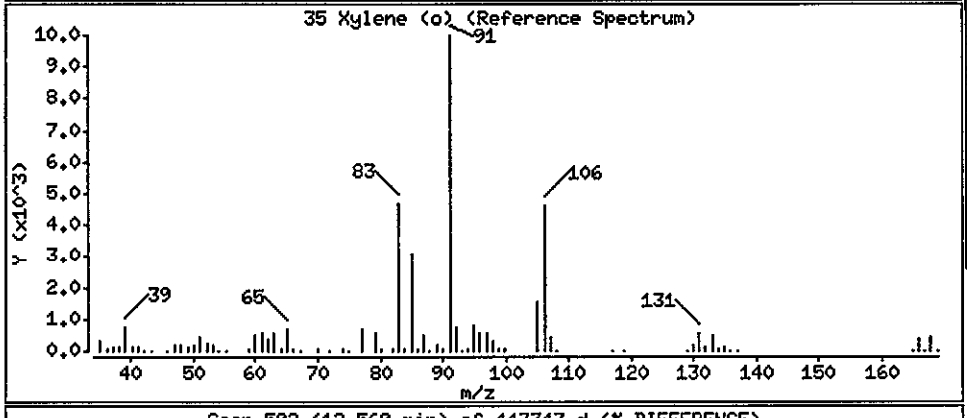
35 Xylene (o) Concentration: 2.4 ppbv

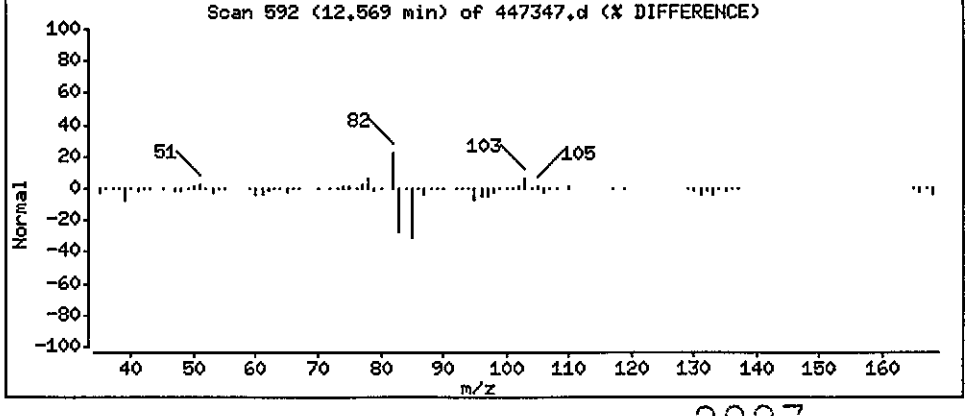












Data File: /chem/W.i/Wsvr.p/wcgdto14.b/447347.d

Date : 23-MAR-2001 11:56

Client ID: 029SVEEA03120110

Instrument: W.i

Sample Info: 447347;029SVEEA03120110;82096;0323W6

Purge Volume: 200.0

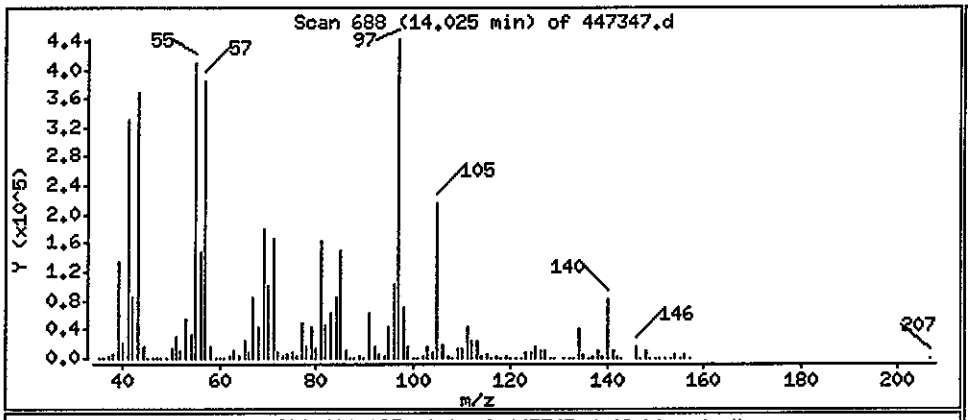
Operator: GMM

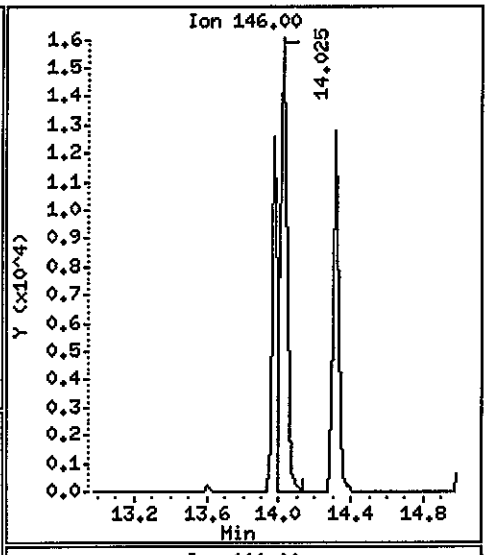
Column phase: DB-1

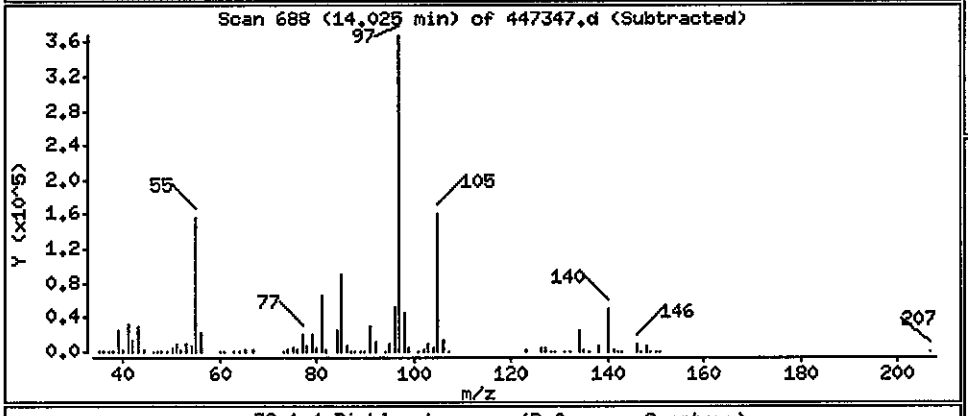
Column diameter: 0.35

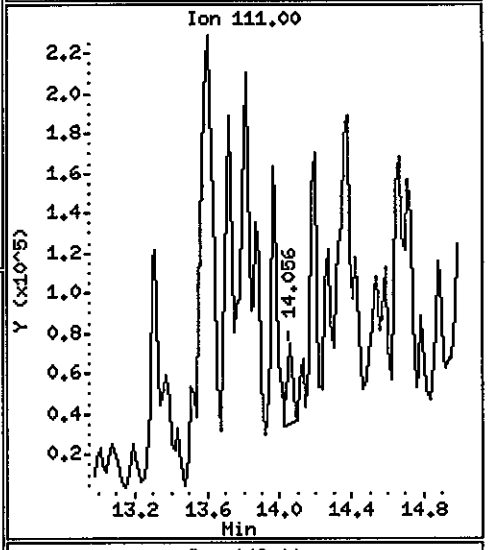
39 1,4-Dichlorobenzene

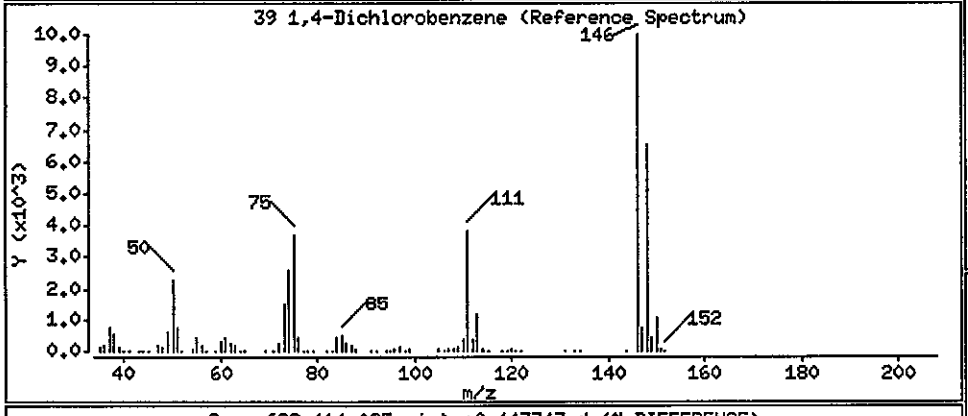
Concentration: 0.53 ppbv

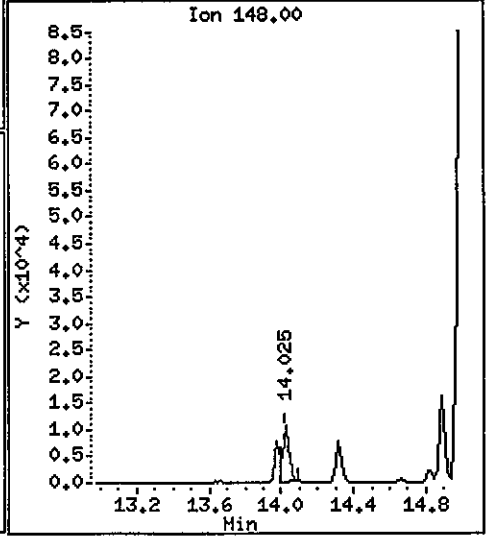


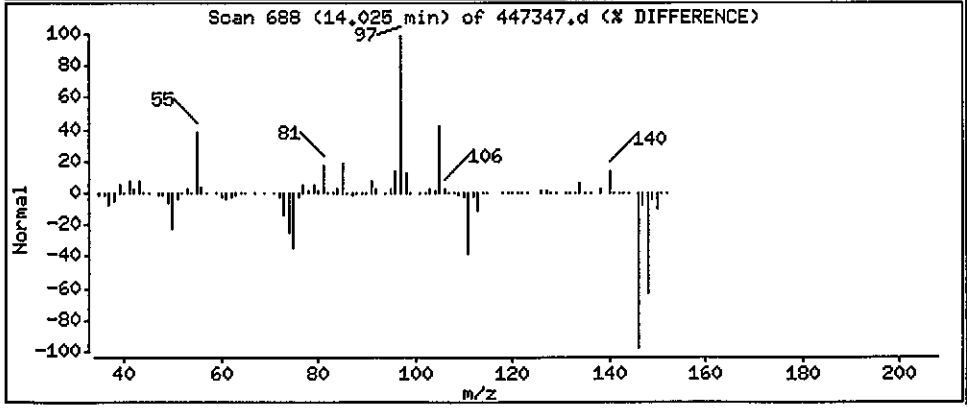












Data File: /chem/W.i/Wsvr.p/wcgdto14.b/447347.d

Date : 23-MAR-2001 11:56

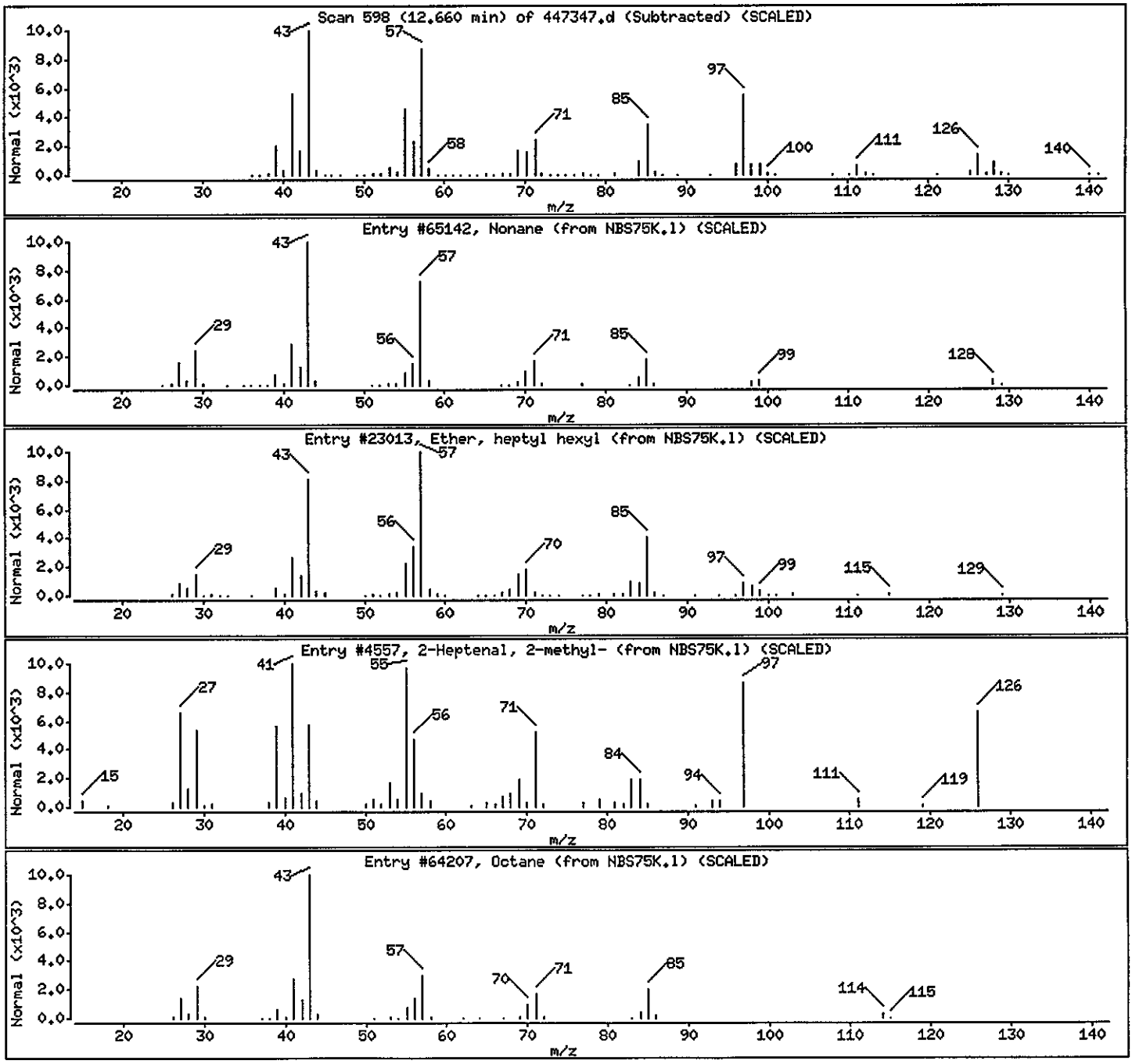
Client ID: 029SVEEA03120110 Instrument: W.i

Sample Info: 447347;029SVEEA03120110;82096;0323W6

Purge Volume: 200.0 Operator: GMM

Column phase: DB-1 Column diameter: 0.35

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Nonane	111-84-2	NBS75K.1	65142	64	C9H20	128
Ether, heptyl hexyl	7289-40-9	NBS75K.1	23013	43	C13H28O	200
2-Heptenal, 2-methyl-	30567-26-1	NBS75K.1	4557	43	C8H14O	126
Octane	111-65-9	NBS75K.1	64207	38	C8H18	114



Data File: /chem/W.i/Wsvr.p/wogdto14.b/447347.d

Date : 23-MAR-2001 11:56

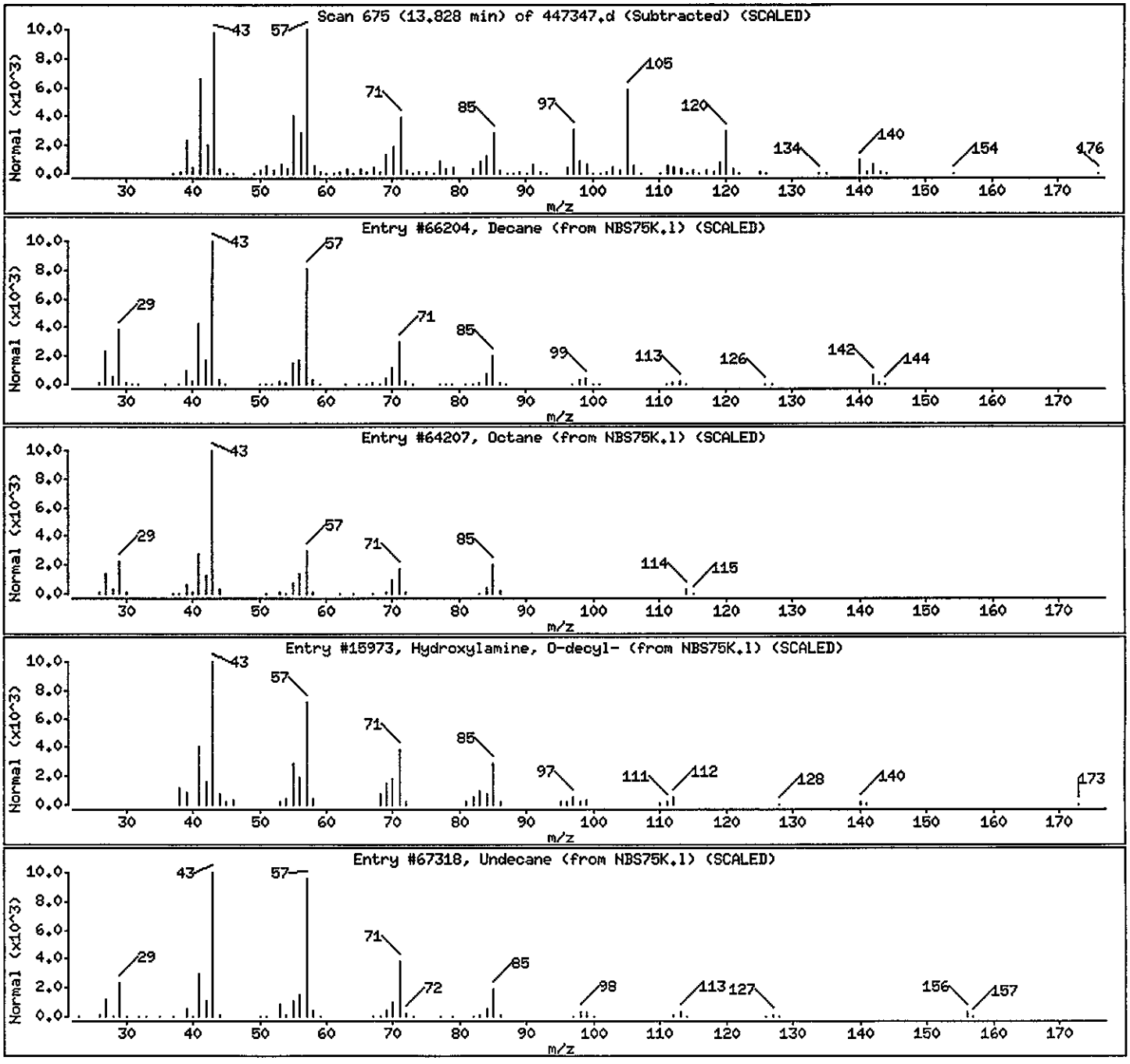
Client ID: 029SVEEA03120110 Instrument: W.i

Sample Info: 447347;029SVEEA03120110;82096;0323W6

Purge Volume: 200.0 Operator: GMM

Column phase: DB-1 Column diameter: 0.35

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Decane	124-18-5	NBS75K.l	66204	70	C10H22	142
Octane	111-65-9	NBS75K.l	64207	47	C8H18	114
Hydroxylamine, O-decyl-	29812-79-1	NBS75K.l	15973	47	C10H23NO	173
Undecane	1120-21-4	NBS75K.l	67318	47	C11H24	156



Data File: /chem/W.i/Wsvr.p/wcgdto14.b/447347.d

Date : 23-MAR-2001 11:56

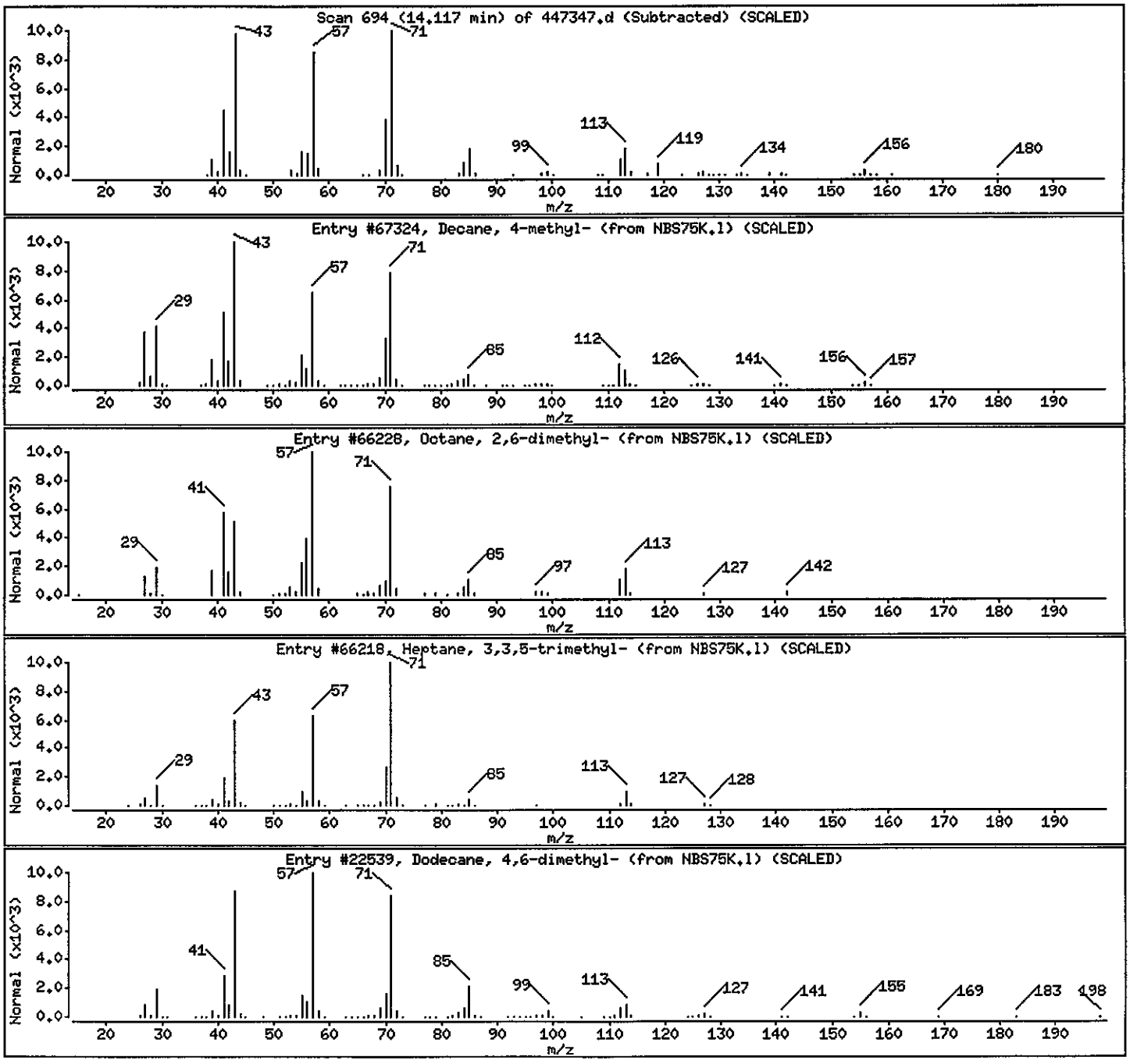
Client ID: 029SVEEA03120110 Instrument: W.i

Sample Info: 447347;029SVEEA03120110;82096;0323W6

Purge Volume: 200.0 Operator: GHM

Column phase: DB-1 Column diameter: 0.35

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown aliphatic compound						
Decane, 4-methyl-	2847-72-5	NBS75K.l	67324	87	C11H24	156
Octane, 2,6-dimethyl-	2051-30-1	NBS75K.l	66228	72	C10H22	142
Heptane, 3,3,5-trimethyl-	7154-80-5	NBS75K.l	66218	72	C10H22	142
Dodecane, 4,6-dimethyl-	61141-72-8	NBS75K.l	22539	59	C14H30	198



Data File: /chem/W.i/Wsvr.p/wcgdto14.b/447347.d

Date : 23-MAR-2001 11:56

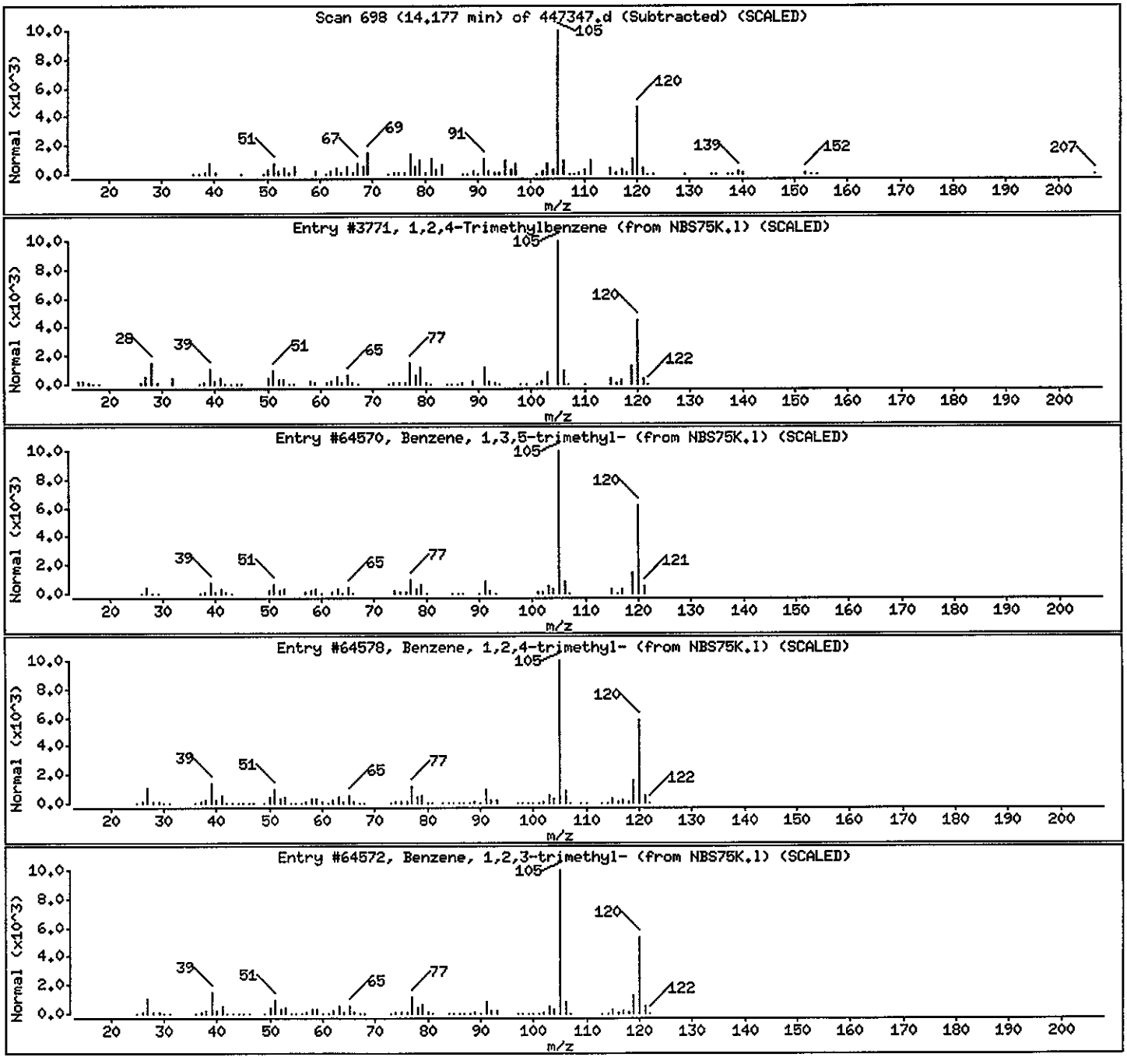
Client ID: 029SVEEA03120110 Instrument: W.i

Sample Info: 447347;029SVEEA03120110;82096;0323W6

Purge Volume: 200.0 Operator: GMM

Column phase: DB-1 Column diameter: 0.35

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown C3-alkylbenzene						
1,2,4-Trimethylbenzene	95-36-3	NBS75K.l	3771	96	C9H12	120
Benzene, 1,3,5-trimethyl-	108-67-8	NBS75K.l	64570	95	C9H12	120
Benzene, 1,2,4-trimethyl-	95-63-6	NBS75K.l	64578	94	C9H12	120
Benzene, 1,2,3-trimethyl-	526-73-8	NBS75K.l	64572	93	C9H12	120



Data File: /chem/W.i/Wsvr.p/wcgdto14.b/447347.d

Date : 23-MAR-2001 11:56

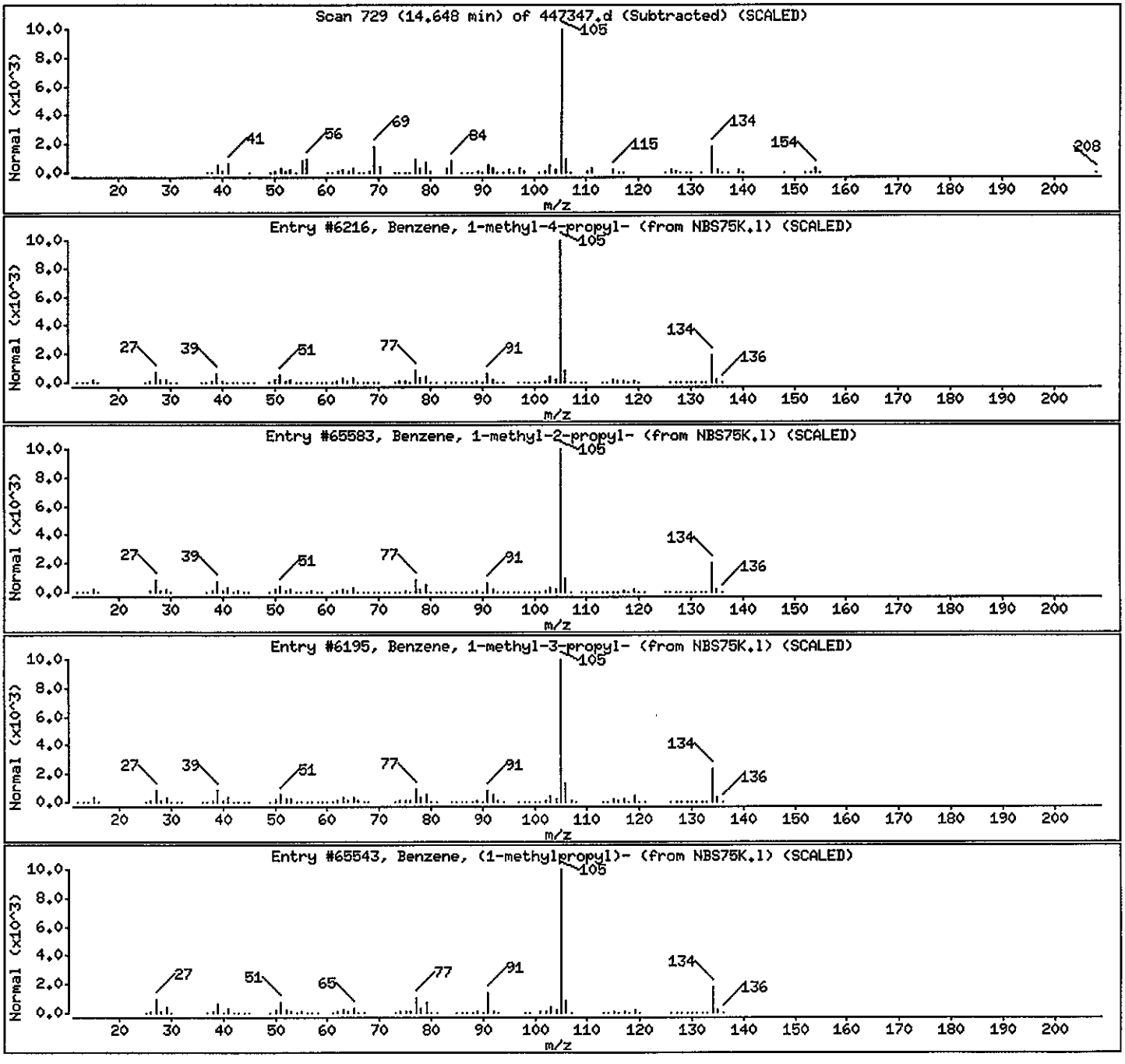
Client ID: 029SVEEA03120110 Instrument: W.i

Sample Info: 447347;029SVEEA03120110;82096;0323W6

Purge Volume: 200.0 Operator: GHM

Column phase: DB-1 Column diameter: 0.35

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown C4-alkylbenzene						
Benzene, 1-methyl-4-propyl-	1074-55-1	NBS75K.l	6216	60	C10H14	134
Benzene, 1-methyl-2-propyl-	1074-17-5	NBS75K.l	65583	53	C10H14	134
Benzene, 1-methyl-3-propyl-	1074-43-7	NBS75K.l	6195	53	C10H14	134
Benzene, (1-methylpropyl)-	135-98-8	NBS75K.l	65543	49	C10H14	134



Data File: /chem/W.i/Wsvr.p/wcgdto14.b/447347.d

Date : 23-MAR-2001 11:56

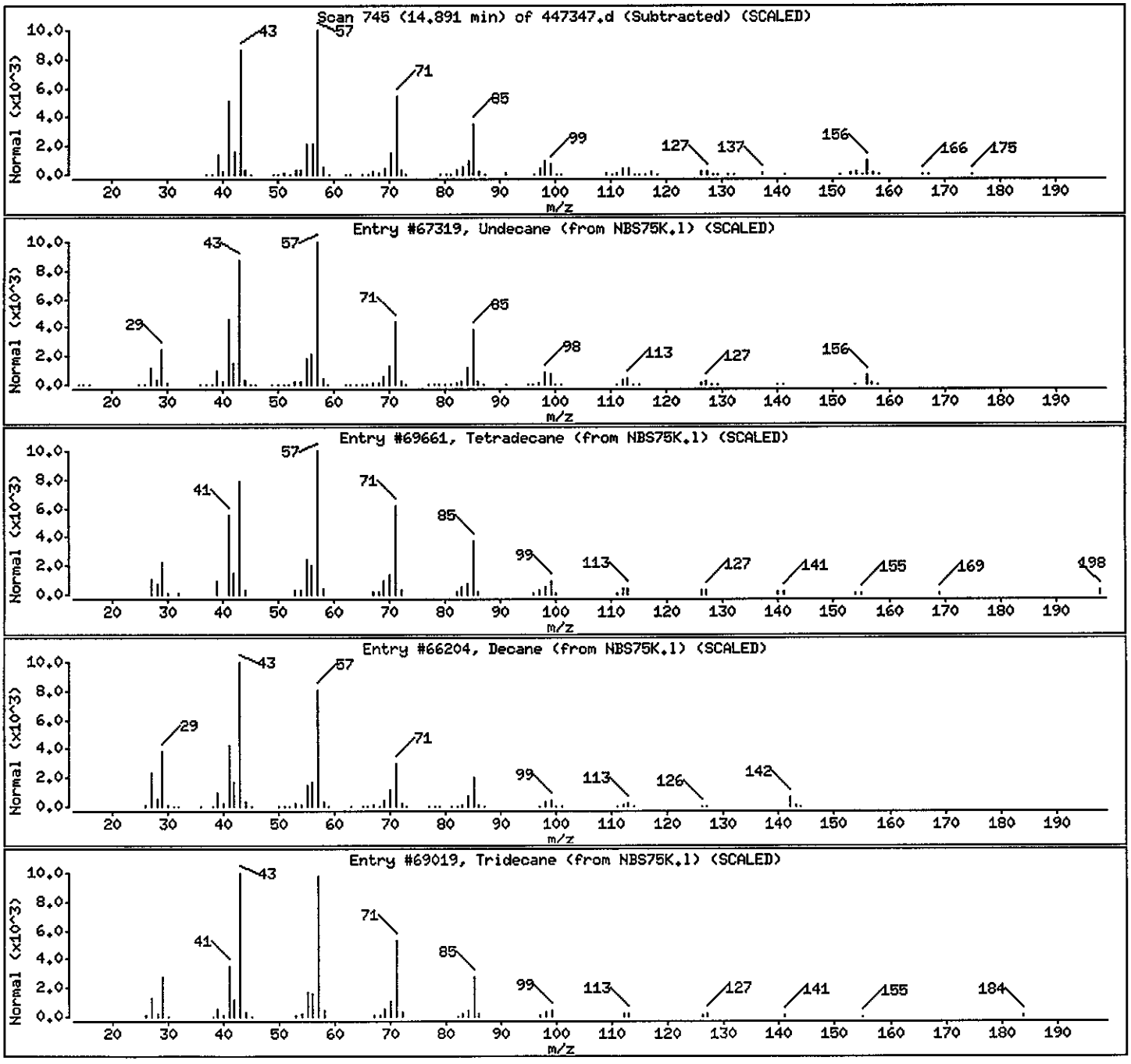
Client ID: 029SVEEA03120110 Instrument: W.i

Sample Info: 447347;029SVEEA03120110;82096;0323W6

Purge Volume: 200.0 Operator: GMM

Column phase: DB-1 Column diameter: 0.35

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown aliphatic compound						
Undecane	1120-21-4	NBS75K.l	67319	96	C11H24	156
Tetradecane	629-59-4	NBS75K.l	69661	86	C14H30	198
Decane	124-18-5	NBS75K.l	66204	78	C10H22	142
Tridecane	629-50-5	NBS75K.l	69019	72	C13H28	184



Data File: /chem/W.i/Wsvr.p/wcgdto14.b/447347.d

Date : 23-MAR-2001 11:56

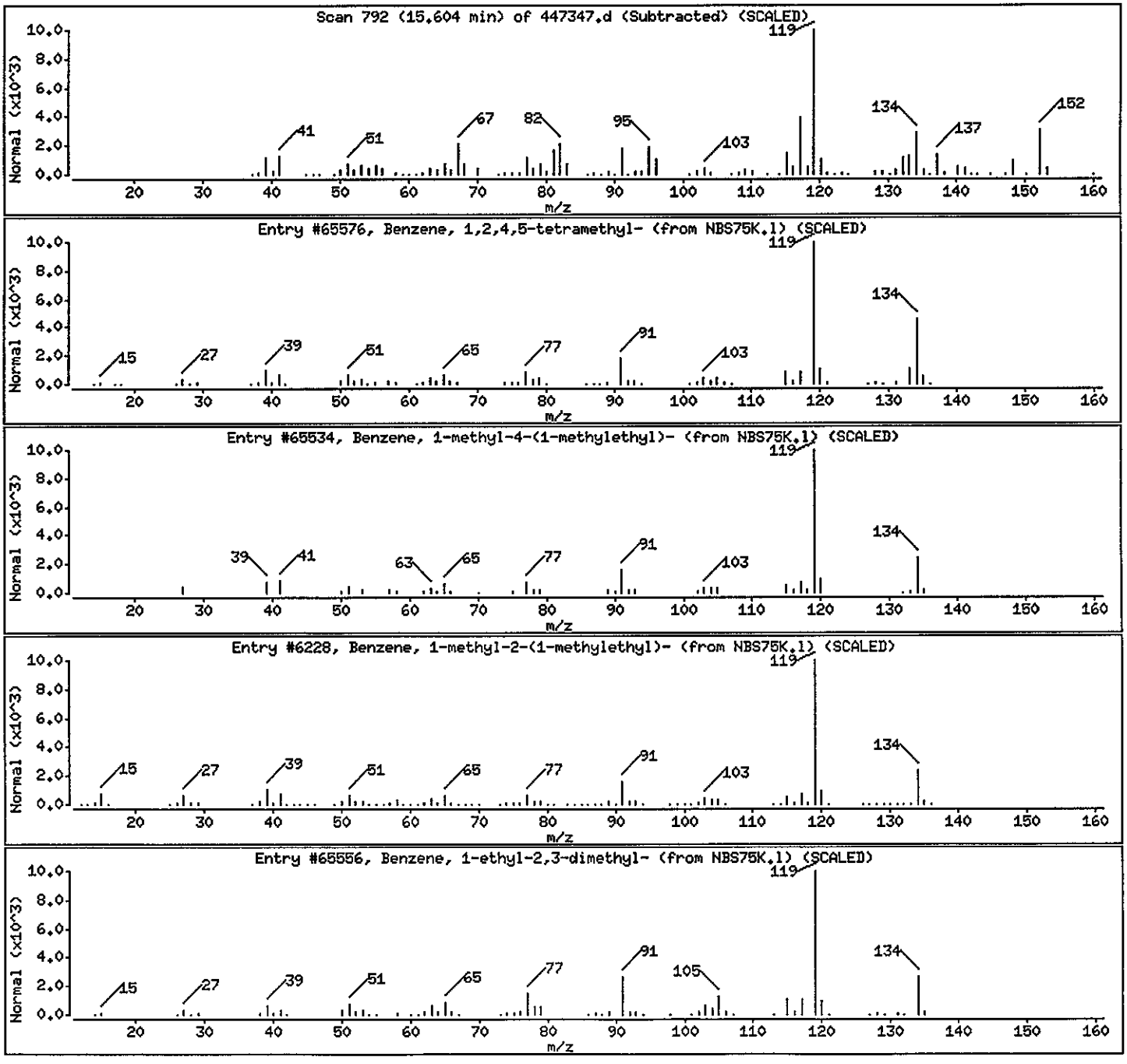
Client ID: 029SVEEA03120110 Instrument: W.i

Sample Info: 447347;029SVEEA03120110;82096;0323W6

Purge Volume: 200.0 Operator: CHM

Column phase: DB-1 Column diameter: 0.35

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown C4-alkylbenzene						
Benzene, 1,2,4,5-tetramethyl-	95-93-2	NBS75K.l	65576	49	C10H14	134
Benzene, 1-methyl-4-(1-methylethyl)-	99-87-6	NBS75K.l	65534	45	C10H14	134
Benzene, 1-methyl-2-(1-methylethyl)-	527-84-4	NBS75K.l	6228	45	C10H14	134
Benzene, 1-ethyl-2,3-dimethyl-	933-98-2	NBS75K.l	65556	43	C10H14	134



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Date : 23-MAR-2001 11:56

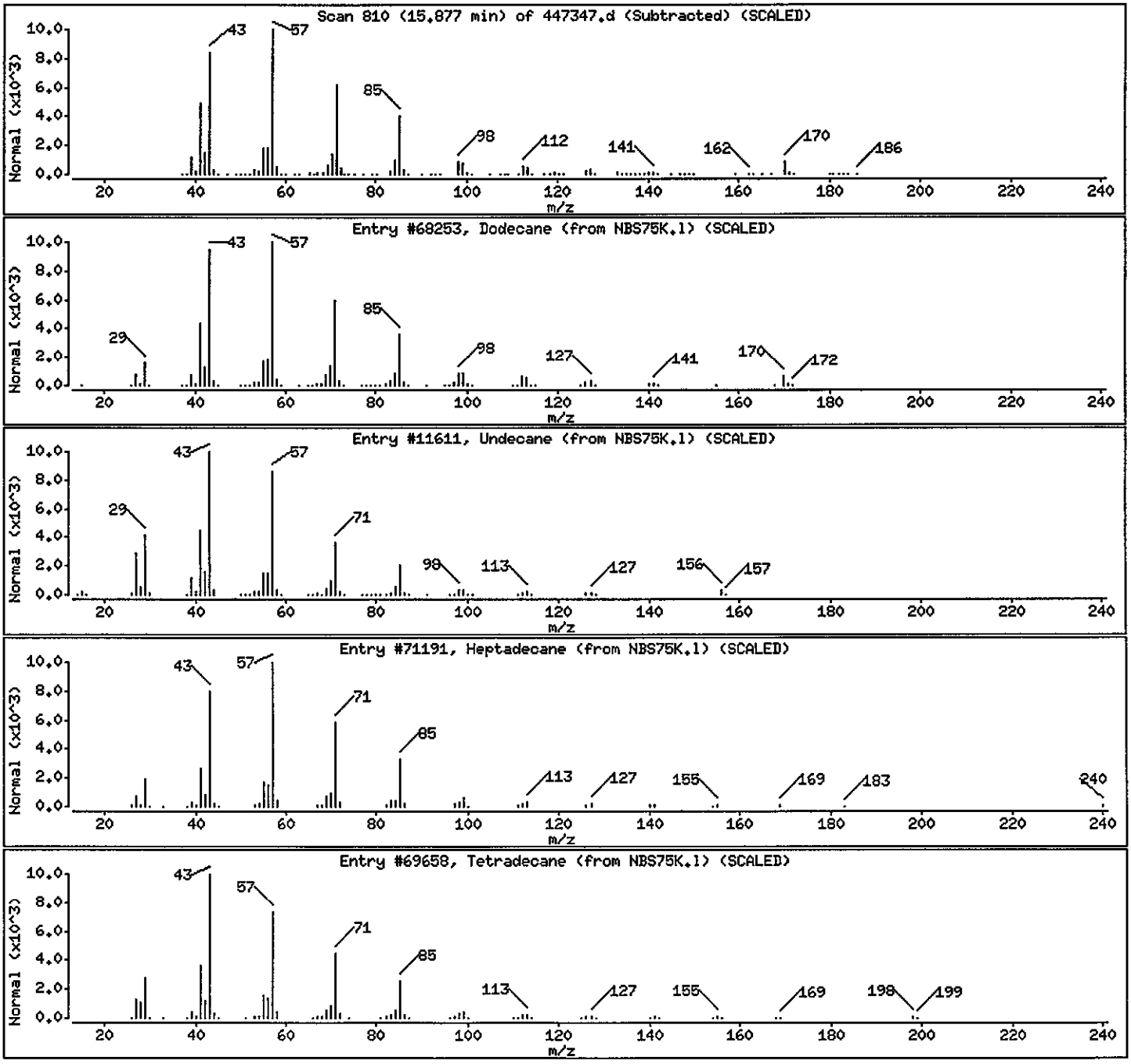
Client ID: 029SVEEA03120110 Instrument: W.i

Sample Info: 447347;029SVEEA03120110;82096;0323W6

Purge Volume: 200.0 Operator: GHM

Column phase: DB-1 Column diameter: 0.35

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown alkane						
Dodecane	112-40-3	NBS75K.l	68253	96	C12H26	170
Undecane	1120-21-4	NBS75K.l	11611	86	C11H24	156
Heptadecane	629-78-7	NBS75K.l	71191	86	C17H36	240
Tetradecane	629-59-4	NBS75K.l	69658	86	C14H30	198



Data File: /chem/W.i/Wsvr.p/wcgdto14.b/447347.d

Date : 23-MAR-2001 11:56

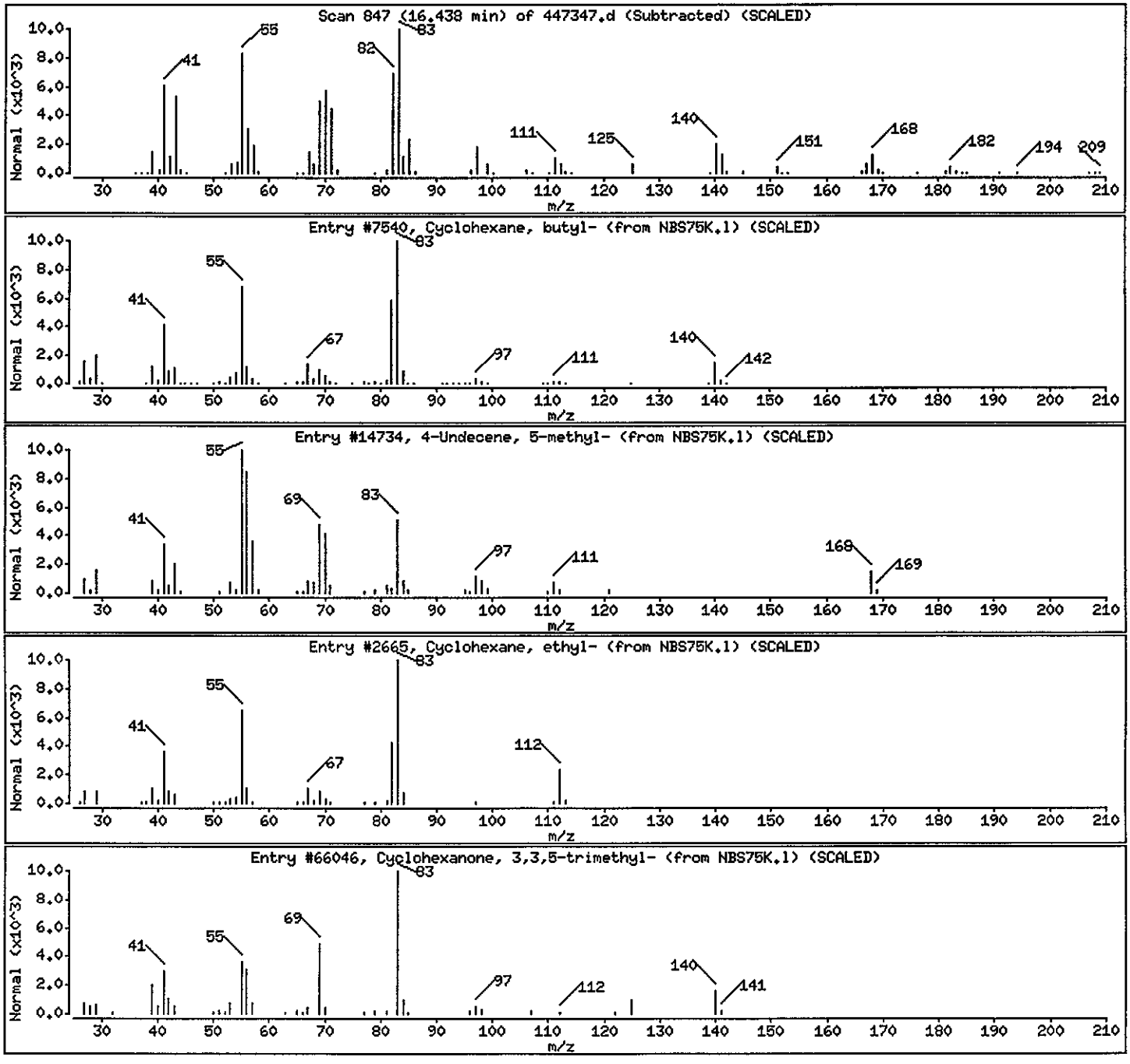
Client ID: 029SVEEA03120110 Instrument: W.i

Sample Info: 447347;029SVEEA03120110;82096;0323W6

Purge Volume: 200.0 Operator: GHM

Column phase: DB-1 Column diameter: 0.35

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Cyclohexane, butyl-	1678-93-9	NBS75K.l	7540	46	C10H20	140
4-Undecene, 5-methyl-	20634-43-9	NBS75K.l	14734	38	C12H24	168
Cyclohexane, ethyl-	1678-91-7	NBS75K.l	2665	35	C8H16	112
Cyclohexanone, 3,3,5-trimethyl-	873-94-9	NBS75K.l	66046	30	C9H16O	140



Data File: /chem/W.i/Wsvr.p/wcgdto14.b/447347.d

Date : 23-MAR-2001 11:56

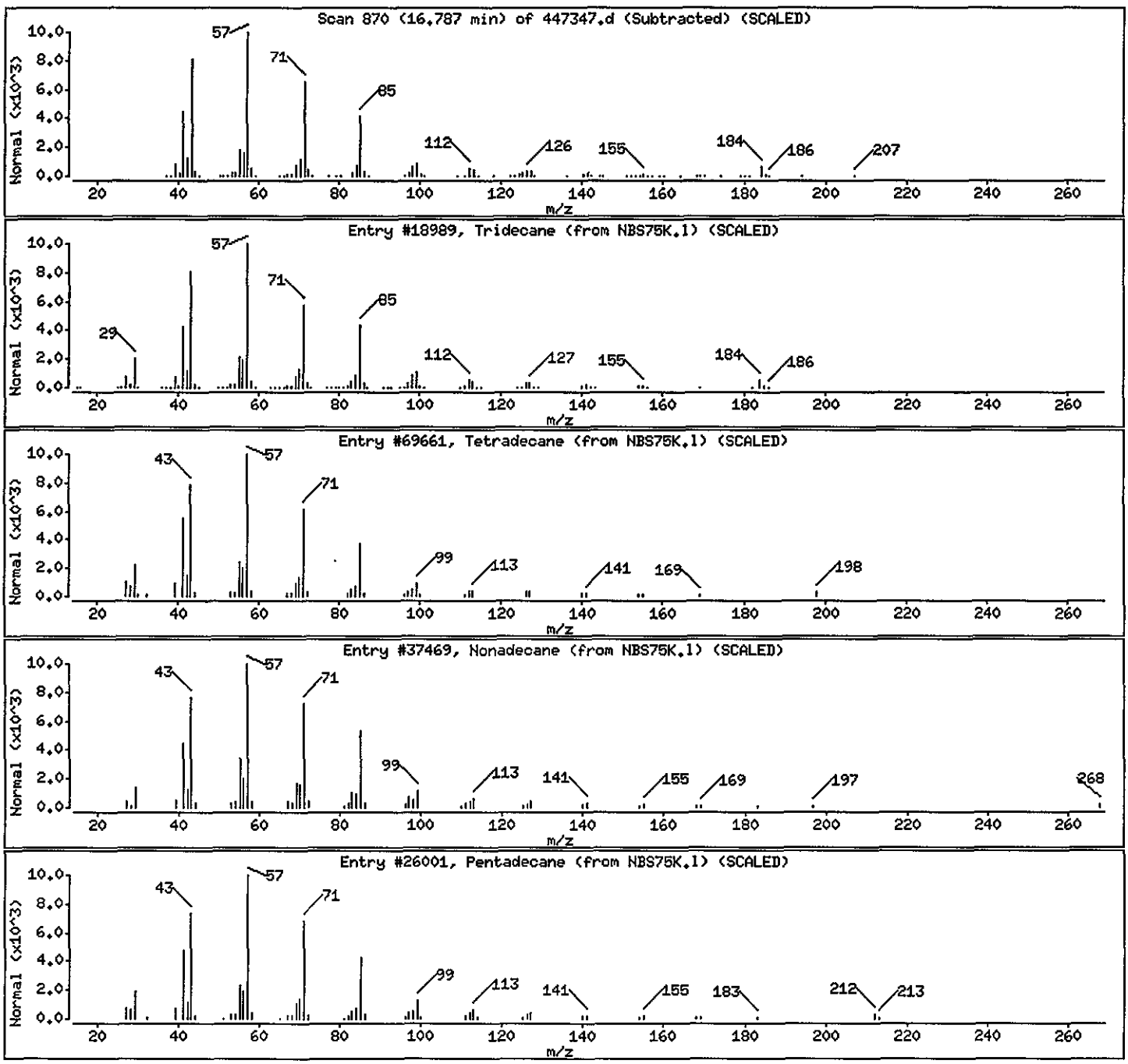
Client ID: 029SVEEA03120110 Instrument: W.i

Sample Info: 447347;029SVEEA03120110;82096;0323W6

Purge Volume: 200.0 Operator: CMM

Column phase: DB-1 Column diameter: 0.35

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown alkane						
Tridecane	629-50-5	NBS75K.1	18989	98	C13H28	184
Tetradecane	629-59-4	NBS75K.1	69661	91	C14H30	198
Nonadecane	629-92-5	NBS75K.1	37469	90	C19H40	268
Pentadecane	629-62-9	NBS75K.1	26001	90	C15H32	212



SEVERN TRENT SERVICES

Severn Trent Laboratories, Inc.

METHOD TO-14A
VOLATILE ORGANIC ANALYSIS

STANDARDS

6A
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 82093

Instrument ID: W Calibration Date(s): 02/20/01 02/20/01

Heated Purge: (Y/N) N Calibration Time(s): 1129 1427

GC Column: DB-1 ID: 0.35 (mm)

LAB FILE ID: RRF0.5=CG0005I2 RRF5 =CG005I2
RRF10 =CG010 RRF20 =CG020 RRF40 =CG040I2

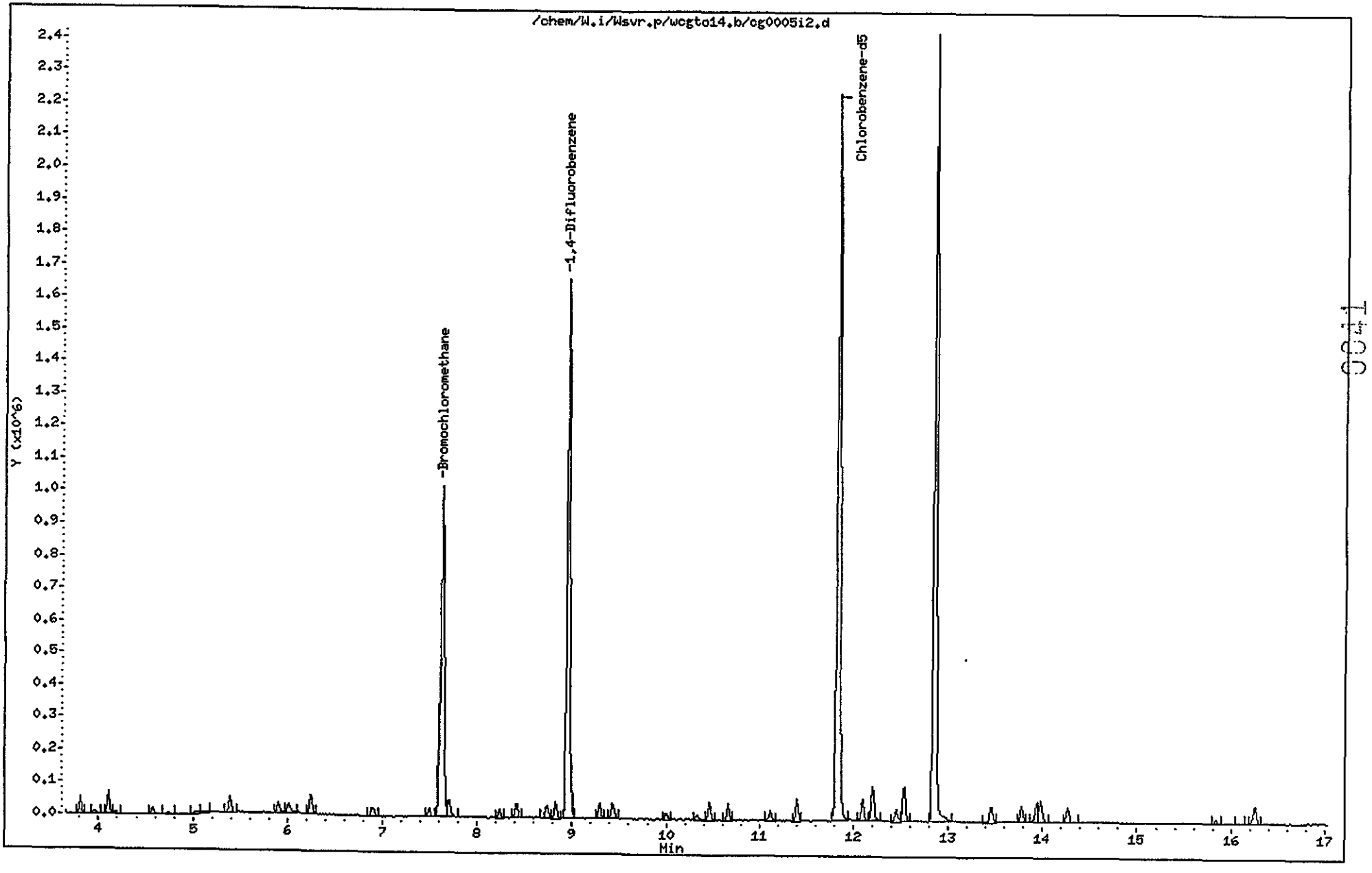
COMPOUND		RRF0.5	RRF5	RRF10	RRF20	RRF40	$\overline{RRF}$	% RSD
Chloromethane	*	0.655	0.585	0.430	0.402	0.363	0.487	25.9*
Vinyl Chloride		0.550	0.599	0.493	0.440	0.401	0.497	16.2
Bromomethane		0.834	0.845	0.664	0.595	0.539	0.695	20.0
Chloroethane		0.397	0.407	0.304	0.285	0.259	0.330	20.4
Trichlorofluoromethane		2.801	2.911	2.029	1.866	1.880	2.297	22.4
Methylene Chloride		1.636	1.087	0.773	0.716	0.728	0.988	39.8
1,1-Dichloroethane	*	1.621	1.798	1.272	1.176	1.211	1.416	19.6*
cis-1,2-Dichloroethene		1.018	1.106	0.972	0.891	0.908	0.979	8.9
Chloroform		2.138	2.154	1.729	1.606	1.642	1.854	14.6
1,1,1-Trichloroethane		1.886	2.040	1.584	1.586	1.644	1.748	11.7
Carbon Tetrachloride		0.426	0.467	0.398	0.373	0.360	0.405	10.6
Benzene		0.509	0.547	0.505	0.436	0.409	0.481	11.8
1,2-Dichloroethane		1.435	1.476	1.204	1.136	1.204	1.291	11.9
Trichloroethene		0.262	0.276	0.250	0.211	0.196	0.239	14.2
1,2-Dichloropropane		0.206	0.210	0.199	0.143	0.137	0.179	19.9
cis-1,3-Dichloropropene		0.170	0.252	0.246	0.216	0.209	0.219	15.1
Toluene		0.292	0.387	0.363	0.344	0.368	0.351	10.4
trans-1,3-Dichloropropene		0.112	0.158	0.160	0.145	0.148	0.145	13.2
1,1,2-Trichloroethane		0.222	0.232	0.210	0.171	0.145	0.196	18.7
Tetrachloroethene		0.266	0.290	0.275	0.256	0.240	0.265	7.2
Chlorobenzene	*	0.553	0.513	0.466	0.444	0.418	0.479	11.3*
Ethylbenzene		0.714	0.917	0.825	0.792	0.772	0.804	9.3
Xylene (total)		0.272	0.321	0.289	0.284	0.296	0.292	6.2
Styrene		0.296	0.352	0.377	0.359	0.328	0.342	9.1
Xylene (m,p)		0.289	0.328	0.296	0.287	0.292	0.298	5.7
Xylene (o)		0.272	0.321	0.289	0.284	0.296	0.292	6.2
1,1,2,2-Tetrachloroethane		0.598	0.576	0.493	0.472	0.475	0.523	11.4
1,3-Dichlorobenzene		0.507	0.490	0.393	0.396	0.468	0.451	11.8
1,4-Dichlorobenzene		0.529	0.409	0.464	0.484	0.470	0.471	9.1
1,2-Dichlorobenzene		0.373	0.353	0.341	0.360	0.398	0.365	5.9

* Compounds with required minimum RRF and maximim %RSD values.
All other compounds must meet a minimim RRF of 0.010.

Data File: /chem/W.i/Wsvr.p/wcgto14.b/cg0005i2.d
Date : 20-FEB-2001 13:51
Client ID: ASTD0005
Sample Info: ASTD0005;ASTD0005
Purge Volume: 200.0
Column phase: DB-1

Instrument: W.i

Operator: GHM
Column diameter: 0.35



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AIR TOXICS QUANTITATION REPORT

Data file : /chem/W.i/Wsvr.p/wcgto14.b/cg0005i2.d
Lab Smp Id: ASTD0005 Client Smp ID: ASTD0005
Inj Date : 20-FEB-2001 13:51
Operator : GMM Inst ID: W.i
Smp Info : ASTD0005;ASTD0005
Misc Info :
Comment :
Method : /chem/W.i/Wsvr.p/wcgto14.b/bto14a.m
Meth Date : 28-Feb-2001 13:33 mim Quant Type: ISTD
Cal Date : 20-FEB-2001 13:51 Cal File: cg0005i2.d
Als bottle: 3 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50
Processing Host: chemsvr4

Concentration Formula: Amt * DF * X* Uf/Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
X	200.00000	method volume factor
Uf	1.00000	ng unit correction factor
Vo	200.00000	Sample Volume purged (mL)

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	AMOUNTS ON-COL (ppbv)	
1	Dichlorodifluoromethane	85	3.810	3.853	(0.500)	42006	0.50000	0.60	
2	Chloromethane	50	3.969	4.011	(0.521)	10098	0.50000	0.63	
3	Dichlorotetrafluoroethane	85	4.113	4.170	(0.540)	44758	0.50000	0.63	
4	Vinyl Chloride	62	4.200	4.242	(0.551)	8493	0.50000	0.53	
5	Bromomethane	94	4.575	4.631	(0.600)	12872	0.50000	0.57	
6	Chloroethane	64	4.748	4.804	(0.623)	6130	0.50000	0.57	
7	Trichlorofluoromethane	101	5.391	5.450	(0.707)	43204	0.50000	0.58	
8	1,1-Dichloroethene	96	5.907	5.966	(0.775)	14656	0.50000	0.60	
9	Methylene Chloride	49	6.013	6.057	(0.789)	25241	0.50000	0.78	
10	Freon TF	101	6.241	6.285	(0.819)	29406	0.50000	0.53	
11	1,1-Dichloroethane	63	6.893	6.953	(0.904)	25008	0.50000	0.55	
12	cis-1,2-Dichloroethene	61	7.500	7.529	(0.984)	15703	0.50000	0.51	
* 13	Bromochloromethane	128	7.622	7.666	(1.000)	308500	10.0000		(Q)
14	Chloroform	83	7.713	7.742	(1.012)	32977	0.50000	0.56	

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	AMOUNTS ON-COL (ppbv)
	15 1,2-Dichloroethane	62	8.244	8.273	(1.082)	22130	0.50000	0.55
	16 1,1,1-Trichloroethane	97	8.426	8.455	(1.106)	29096	0.50000	0.53
	17 Benzene	78	8.745	8.774	(0.976)	36255	0.50000	0.51
	18 Carbon Tetrachloride	117	8.821	8.865	(0.985)	30361	0.50000	0.51
*	19 1,4-Difluorobenzene	114	8.957	8.986	(1.000)	1425281	10.0000	
	20 1,2-Dichloropropane	63	9.291	9.305	(1.037)	14654	0.50000	0.54(M)
	21 Trichloroethene	95	9.428	9.457	(1.053)	18657	0.50000	0.52
	24 1,1,2-Trichloroethane	83	10.460	10.474	(1.168)	15816	0.50000	0.53
*	28 Chlorobenzene-d5	117	11.825	11.839	(1.000)	1460413	10.0000	
	29 Chlorobenzene	112	11.856	11.870	(1.003)	40389	0.50000	0.56(Q)
	31 Xylene (m,p)	106	12.205	12.204	(1.032)	42205	1.00000	0.96
M	33 Xylene (total)	106				62104	0.50000	1.4
	34 1,1,2,2-Tetrachloroethane	83	12.523	12.522	(1.059)	43682	0.50000	0.56
	38 1,3-Dichlorobenzene	146	13.935	13.934	(1.178)	37030	0.50000	0.57
	39 1,4-Dichlorobenzene	146	13.980	13.979	(1.182)	38633	0.50000	0.56
	40 1,2-Dichlorobenzene	146	14.284	14.267	(1.208)	27264	0.50000	0.52
	41 1,2,4-Trichlorobenzene	180	15.832	15.831	(1.339)	5055	0.50000	0.63
	42 Hexachlorobutadiene	225	16.257	16.255	(1.375)	12282	0.50000	0.69

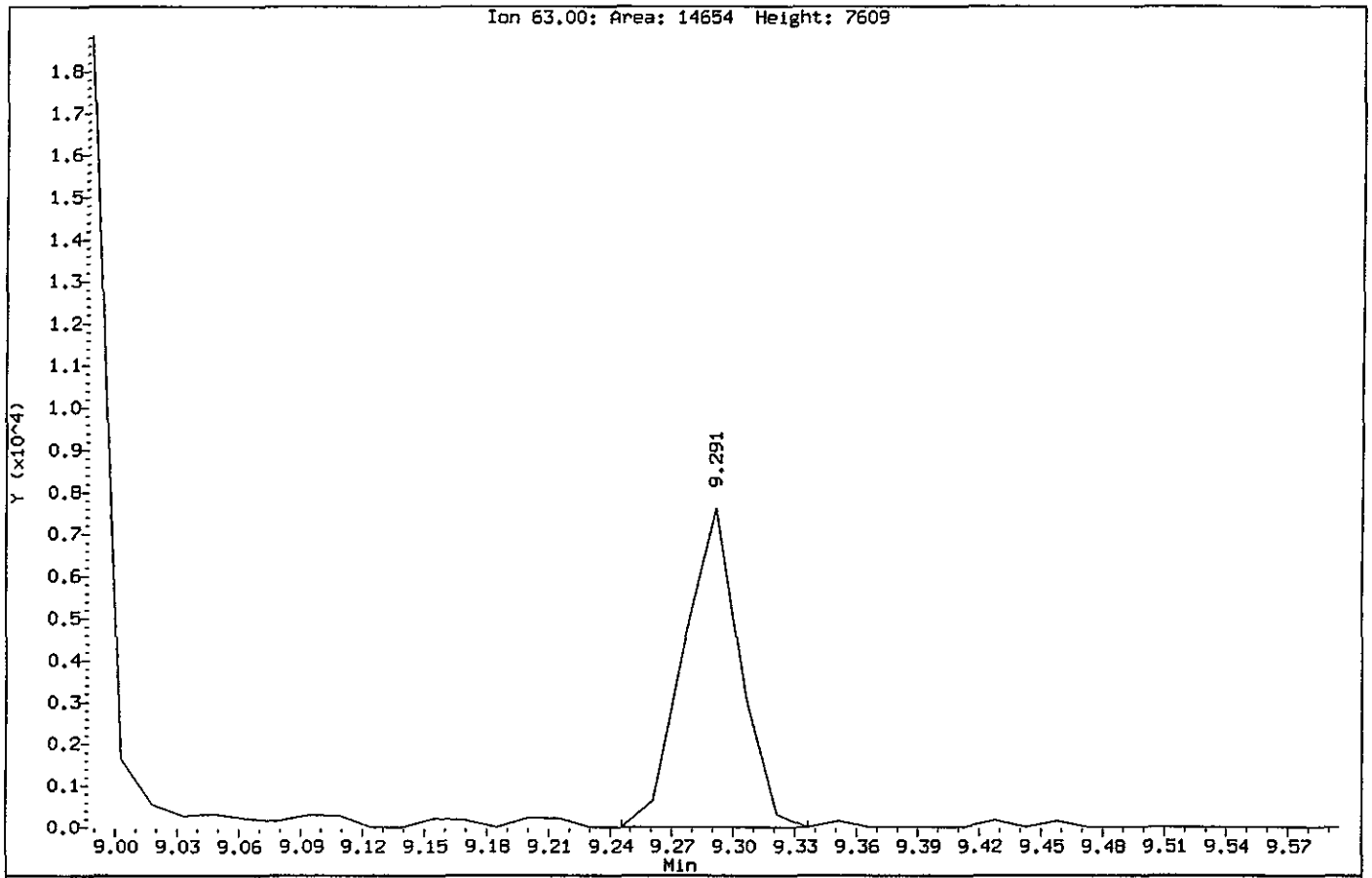
QC Flag Legend

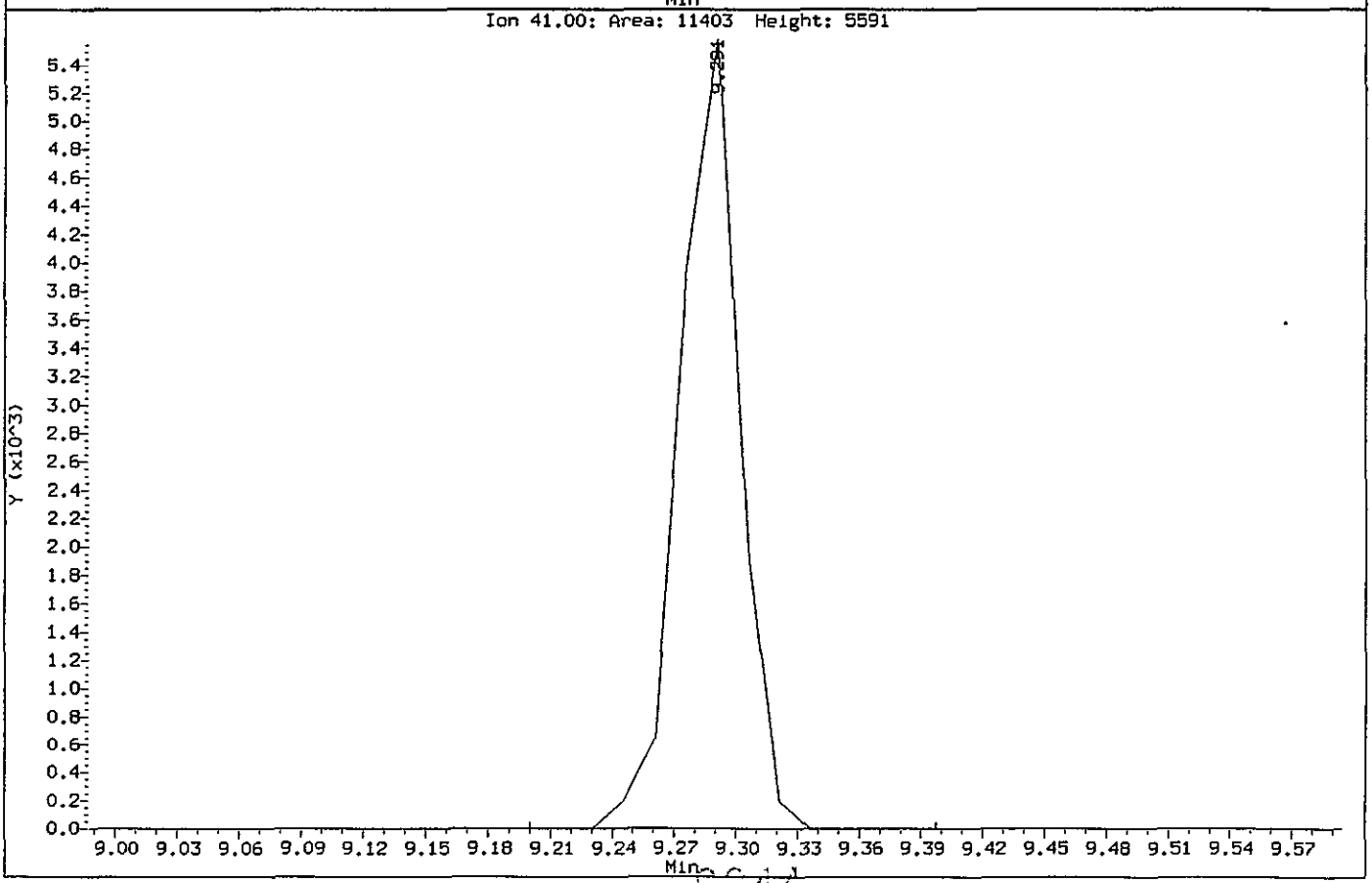
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

MWM 02/12/2001

Data File: /chem/W.i/Wsvr.p/wcgto14.b/cg000512.d
Injection Date: 20-FEB-2001 13:51
Instrument: W.i
Client Sample ID: ASTD0005

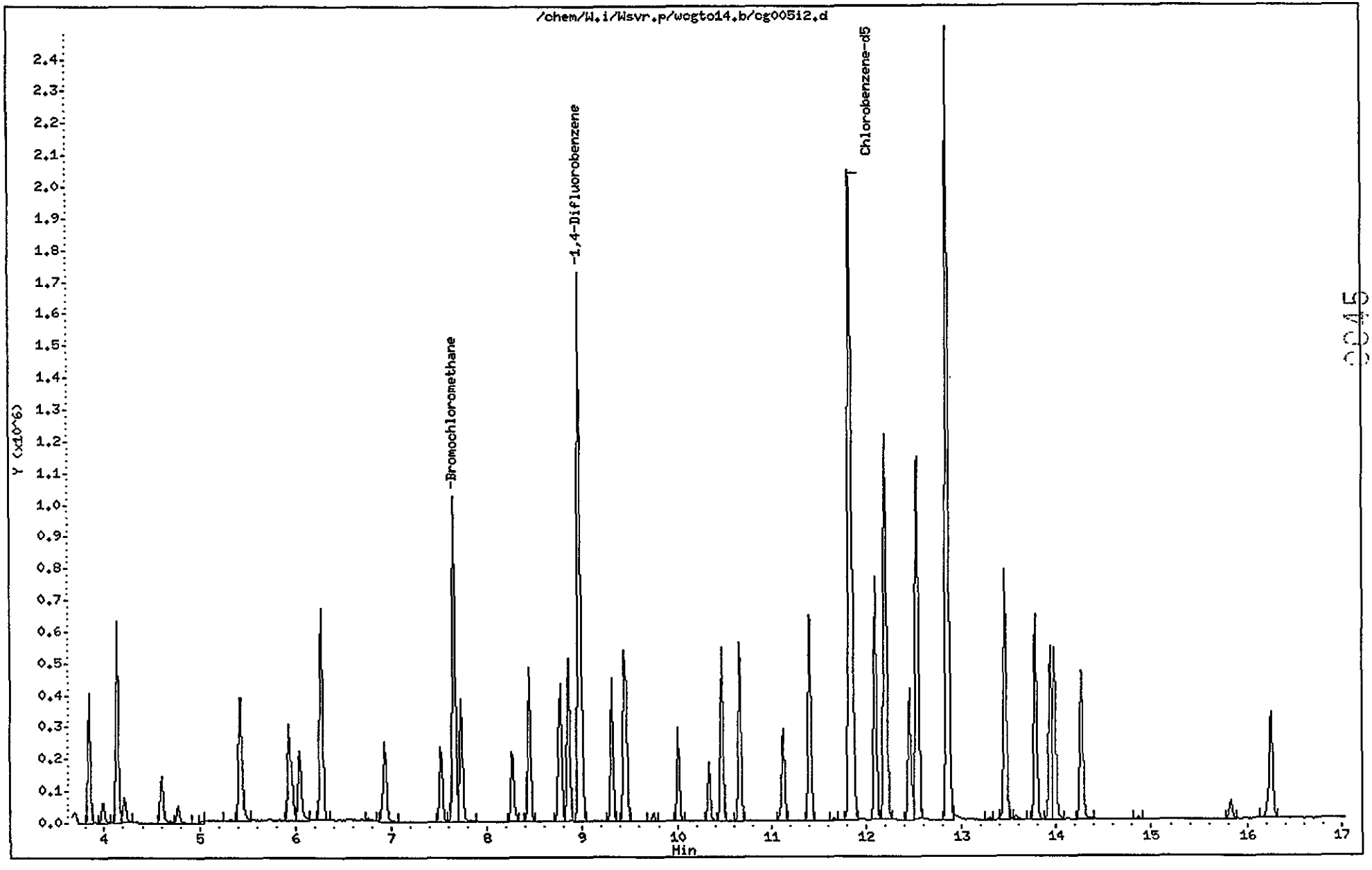
Compound: 1,2-Dichloropropane
CAS Number: 78-87-5





Data File: /chem/W.i/Wsvr.p/wcgto14.b/cg005i2.d
Date : 20-FEB-2001 13:17
Client ID: ASTD005
Sample Info: ASTD005;ASTD005
Purge Volume: 200.0
Column phase: DB-1

Instrument: W.i
Operator: GMH
Column diameter: 0.35



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Data file : /chem/W.i/Wsvr.p/wcgto14.b/cg005i2.d
Lab Smp Id: ASTD005 Client Smp ID: ASTD005
Inj Date : 20-FEB-2001 13:17
Operator : GMM Inst ID: W.i
Smp Info : ASTD005;ASTD005
Misc Info :
Comment :
Method : /chem/W.i/Wsvr.p/wcgto14.b/bto14a.m
Meth Date : 28-Feb-2001 13:33 mim Quant Type: ISTD
Cal Date : 20-FEB-2001 13:17 Cal File: cg005i2.d
Als bottle: 2 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50
Processing Host: chemsvr4

Concentration Formula: Amt * DF * X* Uf/Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
X	200.00000	method volume factor
Uf	1.00000	ng unit correction factor
Vo	200.00000	Sample Volume purged (mL)

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	AMOUNTS ON-COL (ppbv)
1	Dichlorodifluoromethane	85	3.839	3.853	(0.502)	395806	5.00000	6.4
2	Chloromethane	50	3.983	4.011	(0.521)	85441	5.00000	6.2
3	Dichlorotetrafluoroethane	85	4.142	4.170	(0.541)	380657	5.00000	6.2
4	Vinyl Chloride	62	4.214	4.242	(0.551)	87429	5.00000	5.9
5	Bromomethane	94	4.603	4.631	(0.602)	123351	5.00000	6.0
6	Chloroethane	64	4.776	4.804	(0.624)	59385	5.00000	6.1
7	Trichlorofluoromethane	101	5.436	5.450	(0.710)	425031	5.00000	6.4
8	1,1-Dichloroethene	96	5.937	5.966	(0.776)	134958	5.00000	6.3
9	Methylene Chloride	49	6.043	6.057	(0.790)	158676	5.00000	6.3
10	Freon TF	101	6.271	6.285	(0.820)	326610	5.00000	6.4
11	1,1-Dichloroethane	63	6.924	6.953	(0.905)	262461	5.00000	6.4
12	cis-1,2-Dichloroethene	61	7.515	7.529	(0.982)	161420	5.00000	5.6
* 13	Bromochloromethane	128	7.652	7.666	(1.000)	291969	10.0000	(Q)
14	Chloroform	83	7.728	7.742	(1.010)	314455	5.00000	5.9

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	AMOUNTS ON-COL (ppbv)
15	1,2-Dichloroethane	62	8.259	8.273	(1.079)	215427	5.00000	5.8
16	1,1,1-Trichloroethane	97	8.441	8.455	(1.103)	297875	5.00000	5.9
17	Benzene	78	8.760	8.774	(0.976)	364554	5.00000	5.5
18	Carbon Tetrachloride	117	8.851	8.865	(0.986)	311421	5.00000	5.6
* 19	1,4-Difluorobenzene	114	8.972	8.986	(1.000)	1333105	10.0000	
20	1,2-Dichloropropane	63	9.306	9.305	(1.037)	139770	5.00000	5.7
21	Trichloroethene	95	9.443	9.457	(1.052)	183699	5.00000	5.6
22	cis-1,3-Dichloropropene	75	10.004	10.018	(1.115)	168182	5.00000	5.3
23	trans-1,3-Dichloropropene	75	10.338	10.352	(1.152)	105452	5.00000	5.1
24	1,1,2-Trichloroethane	83	10.475	10.474	(1.167)	154320	5.00000	5.7
25	Toluene	92	10.657	10.671	(0.900)	274927	5.00000	5.3
26	1,2-Dibromoethane	107	11.127	11.126	(0.940)	237966	5.00000	5.3
27	Tetrachloroethene	166	11.416	11.414	(0.964)	206197	5.00000	5.3
* 28	Chlorobenzene-d5	117	11.841	11.839	(1.000)	1419922	10.0000	
29	Chlorobenzene	112	11.871	11.870	(1.003)	364405	5.00000	5.4
30	Ethylbenzene	91	12.099	12.097	(1.022)	650801	5.00000	5.4
31	Xylene (m,p)	106	12.205	12.204	(1.031)	466308	10.0000	11
32	Styrene	104	12.463	12.462	(1.053)	250190	5.00000	4.8
M 33	Xylene (total)	106				694292	5.00000	16
34	1,1,2,2-Tetrachloroethane	83	12.523	12.522	(1.058)	409271	5.00000	5.6
35	Xylene (o)	106	12.539	12.537	(1.059)	227984	5.00000	5.4
36	1,3,5-Trimethylbenzene	105	13.449	13.448	(1.136)	509015	5.00000	5.4
37	1,2,4-Trimethylbenzene	105	13.783	13.782	(1.164)	458132	5.00000	5.2
38	1,3-Dichlorobenzene	146	13.935	13.934	(1.177)	347799	5.00000	5.7
39	1,4-Dichlorobenzene	146	13.980	13.979	(1.181)	290701	5.00000	4.5
40	1,2-Dichlorobenzene	146	14.269	14.267	(1.205)	250915	5.00000	5.0
41	1,2,4-Trichlorobenzene	180	15.832	15.831	(1.337)	24264	5.00000	3.4
42	Hexachlorobutadiene	225	16.257	16.255	(1.373)	80132	5.00000	5.3

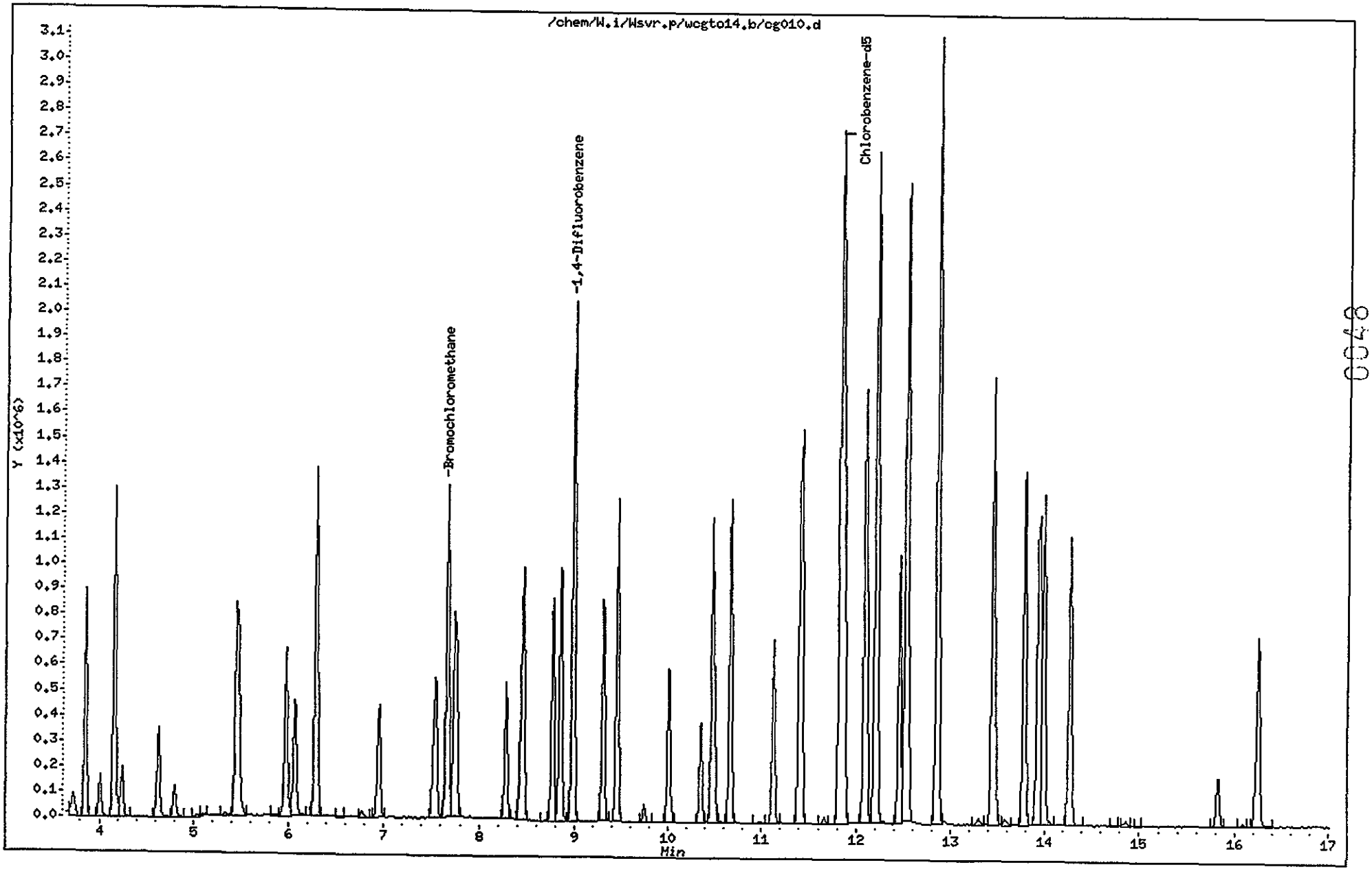
QC Flag Legend

Q - Qualifier signal failed the ratio test.

Data File: /chem/W.i/Wsvr.p/wcgto14.b/cg010.d
Date : 20-FEB-2001 11:29
Client ID: ASTD010
Sample Info: ASTD010;ASTD010
Purge Volume: 200.0
Column phase: DB-1

Instrument: W.i

Operator: GMM
Column diameter: 0.35



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AIR TOXICS QUANTITATION REPORT

Data file : /chem/W.i/Wsvr.p/wcgto14.b/cg010.d
Lab Smp Id: ASTD010 Client Smp ID: ASTD010
Inj Date : 20-FEB-2001 11:29
Operator : GMM Inst ID: W.i
Smp Info : ASTD010;ASTD010
Misc Info :
Comment :
Method : /chem/W.i/Wsvr.p/wcgto14.b/bto14a.m
Meth Date : 28-Feb-2001 13:32 mim Quant Type: ISTD
Cal Date : 20-FEB-2001 11:29 Cal File: cg010.d
Als bottle: 1 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50
Processing Host: chemsvr4

Concentration Formula: Amt * DF * X* Uf/Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
X	200.00000	method volume factor
Uf	1.00000	ng unit correction factor
Vo	200.00000	Sample Volume purged (mL)

Cpnd Variable Local Compound Variable

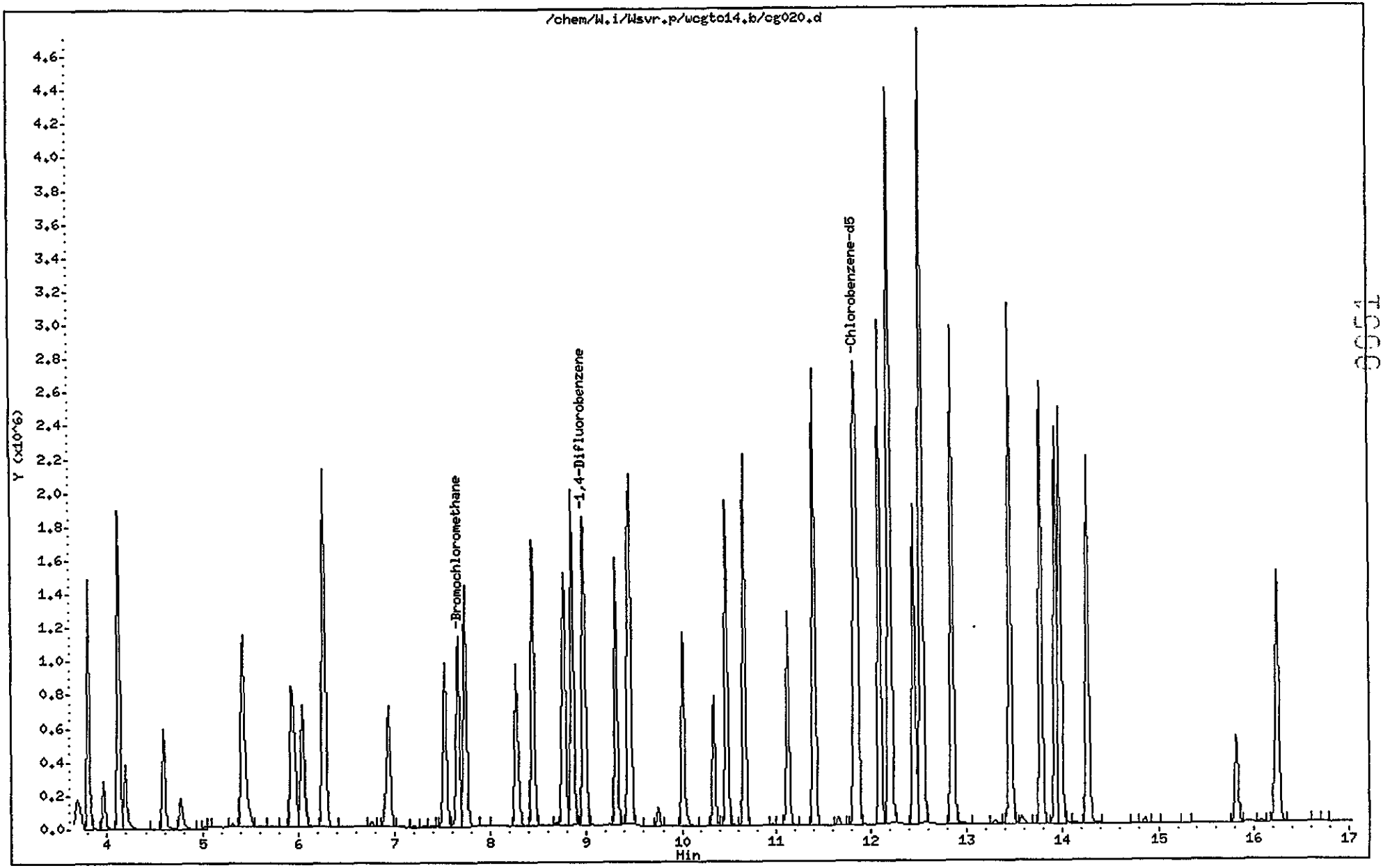
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	AMOUNTS ON-COL (ppbv)
1	Dichlorodifluoromethane	85	3.853	3.853	(0.503)	799224	10.0000	10
2	Chloromethane	50	4.011	4.011	(0.523)	177650	10.0000	10
3	Dichlorotetrafluoroethane	85	4.170	4.170	(0.544)	812943	10.0000	10
4	Vinyl Chloride	62	4.242	4.242	(0.553)	203714	10.0000	10
5	Bromomethane	94	4.631	4.631	(0.604)	274535	10.0000	10
6	Chloroethane	64	4.804	4.804	(0.627)	125668	10.0000	10
7	Trichlorofluoromethane	101	5.450	5.450	(0.711)	839193	10.0000	10
8	1,1-Dichloroethene	96	5.966	5.966	(0.778)	275662	10.0000	10
9	Methylene Chloride	49	6.057	6.057	(0.790)	319815	10.0000	10
10	Freon TF	101	6.285	6.285	(0.820)	655517	10.0000	10
11	1,1-Dichloroethane	63	6.953	6.953	(0.907)	526037	10.0000	10
12	cis-1,2-Dichloroethene	61	7.529	7.529	(0.982)	402091	10.0000	10
* 13	Bromochloromethane	128	7.666	7.666	(1.000)	413516	10.0000	
14	Chloroform	83	7.742	7.742	(1.010)	715012	10.0000	10

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	AMOUNTS ON-COL (ppbv)
	15 1,2-Dichloroethane	62	8.273	8.273	(1.079)	497687	10.0000	10
	16 1,1,1-Trichloroethane	97	8.455	8.455	(1.103)	654886	10.0000	10
	17 Benzene	78	8.774	8.774	(0.976)	852870	10.0000	10
	18 Carbon Tetrachloride	117	8.865	8.865	(0.986)	673263	10.0000	10
*	19 1,4-Difluorobenzene	114	8.986	8.986	(1.000)	1690071	10.0000	
	20 1,2-Dichloropropane	63	9.305	9.305	(1.035)	337013	10.0000	10
	21 Trichloroethene	95	9.457	9.457	(1.052)	421760	10.0000	10
	22 cis-1,3-Dichloropropene	75	10.018	10.018	(1.115)	415539	10.0000	10
	23 trans-1,3-Dichloropropene	75	10.352	10.352	(1.152)	269853	10.0000	10
	24 1,1,2-Trichloroethane	83	10.474	10.474	(1.165)	354350	10.0000	10
	25 Toluene	92	10.671	10.671	(0.901)	656043	10.0000	10
	26 1,2-Dibromoethane	107	11.126	11.126	(0.940)	558164	10.0000	10
	27 Tetrachloroethene	166	11.414	11.414	(0.964)	497211	10.0000	10
*	28 Chlorobenzene-d5	117	11.839	11.839	(1.000)	1808104	10.0000	
	29 Chlorobenzene	112	11.870	11.870	(1.003)	843051	10.0000	10
	30 Ethylbenzene	91	12.097	12.097	(1.022)	1491636	10.0000	10
	31 Xylene (m,p)	106	12.204	12.204	(1.031)	1070372	20.0000	20
	32 Styrene	104	12.462	12.462	(1.053)	681164	10.0000	10
M	33 Xylene (total)	106				1592596	10.0000	30
	34 1,1,2,2-Tetrachloroethane	83	12.522	12.522	(1.058)	891964	10.0000	10
	35 Xylene (o)	106	12.537	12.537	(1.059)	522224	10.0000	10
	36 1,3,5-Trimethylbenzene	105	13.448	13.448	(1.136)	1171093	10.0000	10
	37 1,2,4-Trimethylbenzene	105	13.782	13.782	(1.164)	1110314	10.0000	10
	38 1,3-Dichlorobenzene	146	13.934	13.934	(1.177)	710065	10.0000	10
	39 1,4-Dichlorobenzene	146	13.979	13.979	(1.181)	838641	10.0000	10
	40 1,2-Dichlorobenzene	146	14.267	14.267	(1.205)	616020	10.0000	10
	41 1,2,4-Trichlorobenzene	180	15.831	15.831	(1.337)	85226	10.0000	10
	42 Hexachlorobutadiene	225	16.255	16.255	(1.373)	177881	10.0000	10

Data File: /chem/W.i/Wsvr.p/wcgto14.b/cg020.d
Date : 20-FEB-2001 12:03
Client ID: ASTD020
Sample Info: ASTD020;ASTD020
Purge Volume: 200.0
Column phase: DB-1

Instrument: W.i

Operator: GMM
Column diameter: 0.35



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AIR TOXICS QUANTITATION REPORT

Data file : /chem/W.i/Wsvr.p/wcgto14.b/cg020.d
Lab Smp Id: ASTD020 Client Smp ID: ASTD020
Inj Date : 20-FEB-2001 12:03
Operator : GMM Inst ID: W.i
Smp Info : ASTD020;ASTD020
Misc Info :
Comment :
Method : /chem/W.i/Wsvr.p/wcgto14.b/bto14a.m
Meth Date : 28-Feb-2001 13:32 mim Quant Type: ISTD
Cal Date : 20-FEB-2001 12:03 Cal File: cg020.d
Als bottle: 4 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50
Processing Host: chemsvr4

Concentration Formula: Amt * DF * X* Uf/Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
X	200.00000	method volume factor
Uf	1.00000	ng unit correction factor
Vo	200.00000	Sample Volume purged (mL)

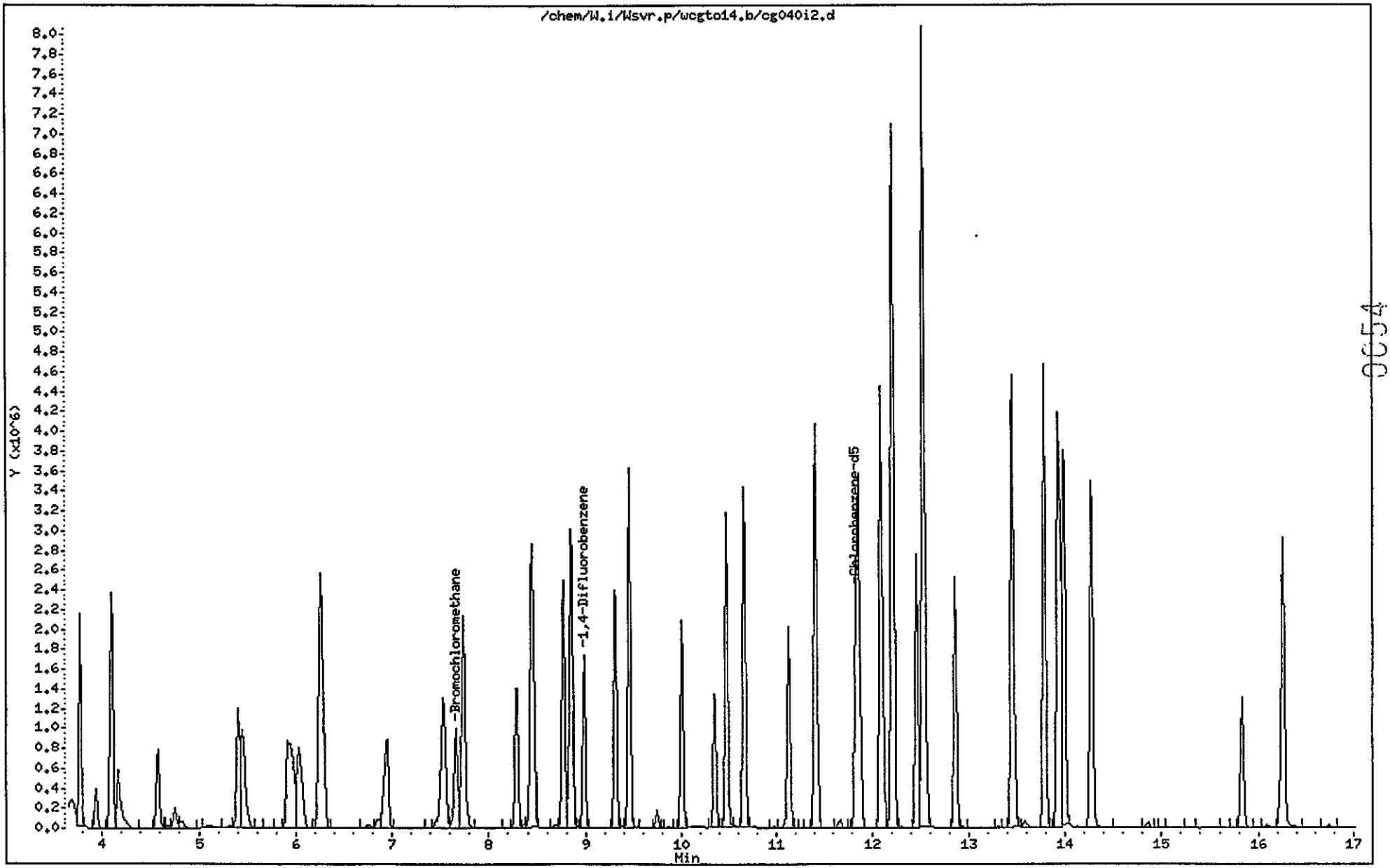
Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	AMOUNTS ON-COL (ppbv)
1	Dichlorodifluoromethane	85	3.810	3.853	(0.497)	1345244	20.0000	19
2	Chloromethane	50	3.969	4.011	(0.518)	318975	20.0000	19
3	Dichlorotetrafluoroethane	85	4.127	4.170	(0.538)	1379303	20.0000	19
4	Vinyl Chloride	62	4.199	4.242	(0.548)	348916	20.0000	19
5	Bromomethane	94	4.589	4.631	(0.598)	472257	20.0000	19
6	Chloroethane	64	4.776	4.804	(0.623)	226058	20.0000	19
7	Trichlorofluoromethane	101	5.436	5.450	(0.709)	1481120	20.0000	19
8	1,1-Dichloroethene	96	5.952	5.966	(0.776)	487435	20.0000	19
9	Methylene Chloride	49	6.043	6.057	(0.788)	568595	20.0000	19
10	Freon TF	101	6.271	6.285	(0.818)	1151989	20.0000	19
11	1,1-Dichloroethane	63	6.938	6.953	(0.905)	933476	20.0000	19
12	cis-1,2-Dichloroethene	61	7.530	7.529	(0.982)	707391	20.0000	19
* 13	Bromochloromethane	128	7.667	7.666	(1.000)	396764	10.0000	
14	Chloroform	83	7.743	7.742	(1.010)	1274331	20.0000	19

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	AMOUNTS ON-COL (ppbv)
15	1,2-Dichloroethane	62	8.274	8.273	(1.079)	901914	20.0000	19
16	1,1,1-Trichloroethane	97	8.441	8.455	(1.101)	1258550	20.0000	20
17	Benzene	78	8.760	8.774	(0.975)	1505064	20.0000	18
18	Carbon Tetrachloride	117	8.851	8.865	(0.985)	1288385	20.0000	19
* 19	1,4-Difluorobenzene	114	8.987	8.986	(1.000)	1725572	10.0000	
20	1,2-Dichloropropane	63	9.306	9.305	(1.035)	494504	20.0000	17
21	Trichloroethene	95	9.458	9.457	(1.052)	729693	20.0000	18
22	cis-1,3-Dichloropropene	75	10.004	10.018	(1.113)	745945	20.0000	19
23	trans-1,3-Dichloropropene	75	10.353	10.352	(1.152)	501155	20.0000	19
24	1,1,2-Trichloroethane	83	10.474	10.474	(1.165)	590168	20.0000	18
25	Toluene	92	10.672	10.671	(0.901)	1114258	20.0000	19
26	1,2-Dibromoethane	107	11.127	11.126	(0.940)	965331	20.0000	20
27	Tetrachloroethene	166	11.415	11.414	(0.964)	831268	20.0000	19
* 28	Chlorobenzene-d5	117	11.840	11.839	(1.000)	1620724	10.0000	
29	Chlorobenzene	112	11.871	11.870	(1.003)	1439687	20.0000	20
30	Ethylbenzene	91	12.098	12.097	(1.022)	2568828	20.0000	20
31	Xylene (m,p)	106	12.204	12.204	(1.031)	1860497	40.0000	39
32	Styrene	104	12.462	12.462	(1.053)	1164247	20.0000	20
M 33	Xylene (total)	106				2780209	20.0000	60
34	1,1,2,2-Tetrachloroethane	83	12.523	12.522	(1.058)	1529287	20.0000	20
35	Xylene (o)	106	12.538	12.537	(1.059)	919712	20.0000	20
36	1,3,5-Trimethylbenzene	105	13.449	13.448	(1.136)	2032437	20.0000	20
37	1,2,4-Trimethylbenzene	105	13.783	13.782	(1.164)	1970603	20.0000	20
38	1,3-Dichlorobenzene	146	13.934	13.934	(1.177)	1283976	20.0000	20
39	1,4-Dichlorobenzene	146	13.980	13.979	(1.181)	1570547	20.0000	20
40	1,2-Dichlorobenzene	146	14.268	14.267	(1.205)	1168005	20.0000	20
41	1,2,4-Trichlorobenzene	180	15.831	15.831	(1.337)	225232	20.0000	24
42	Hexachlorobutadiene	225	16.256	16.255	(1.373)	354204	20.0000	21

Data File: /chem/W.i/Wsvr.p/wcgto14.b/cg040i2.d
Date : 20-FEB-2001 14:27
Client ID: ASTD040
Sample Info: ASTD040;ASTD040
Purge Volume: 200.0
Column phase: DB-1

Instrument: W.i
Operator: GHM
Column diameter: 0.35



0054

STL Burlington

AIR TOXICS QUANTITATION REPORT

Data file : /chem/W.i/Wsvr.p/wcgto14.b/cg040i2.d
Lab Smp Id: ASTD040 Client Smp ID: ASTD040
Inj Date : 20-FEB-2001 14:27
Operator : GMM Inst ID: W.i
Smp Info : ASTD040;ASTD040
Misc Info :
Comment :
Method : /chem/W.i/Wsvr.p/wcgto14.b/bto14a.m
Meth Date : 28-Feb-2001 13:33 mim Quant Type: ISTD
Cal Date : 20-FEB-2001 14:27 Cal File: cg040i2.d
Als bottle: 5 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50
Processing Host: chemsvr4

Concentration Formula: Amt * DF * X* Uf/Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
X	200.00000	method volume factor
Uf	1.00000	ng unit correction factor
Vo	200.00000	Sample Volume purged (mL)

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	AMOUNTS ON-COL (ppbv)
1	Dichlorodifluoromethane	85	3.770	3.853	(0.492)	1816305	38.0000	27
2	Chloromethane	50	3.943	4.011	(0.514)	464632	40.0000	30
3	Dichlorotetrafluoroethane	85	4.102	4.170	(0.535)	2013448	40.0000	29(M)
4	Vinyl Chloride	62	4.174	4.242	(0.544)	512621	40.0000	32
5	Bromomethane	94	4.578	4.631	(0.597)	689188	40.0000	31(M)
6	Chloroethane	64	4.751	4.804	(0.620)	331680	40.0000	31(M)
7	Trichlorofluoromethane	101	5.406	5.450	(0.705)	2404708	40.0000	33(M)
8	1,1-Dichloroethene	96	5.937	5.966	(0.774)	781277	40.0000	32
9	Methylene Chloride	49	6.028	6.057	(0.786)	930733	40.0000	29
10	Freon TF	101	6.256	6.285	(0.816)	1857215	40.0000	34
11	1,1-Dichloroethane	63	6.954	6.953	(0.907)	1548789	40.0000	34
12	cis-1,2-Dichloroethene	61	7.530	7.529	(0.982)	1162080	40.0000	37(M)
* 13	Bromochloromethane	128	7.667	7.666	(1.000)	319808	10.0000	
14	Chloroform	83	7.743	7.742	(1.010)	2099960	40.0000	35

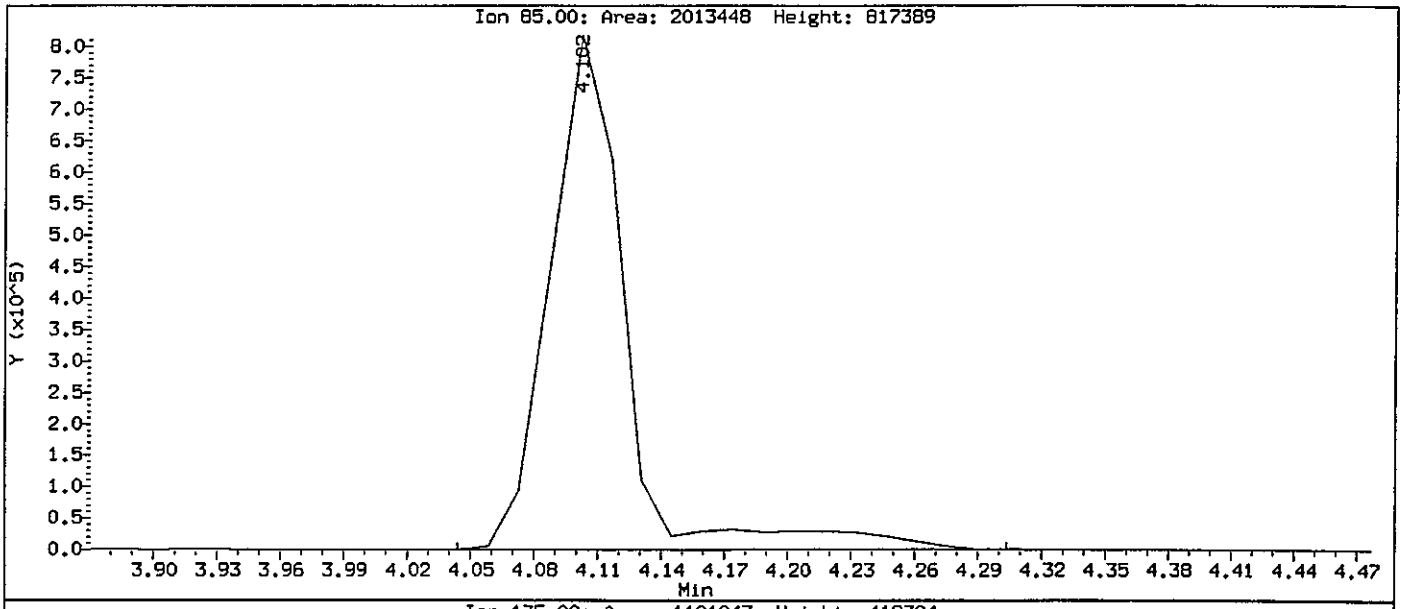
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	ON-COL (ppbv)
15	1,2-Dichloroethane	62	8.289	8.273	(1.081)	1540243	40.0000	37
16	1,1,1-Trichloroethane	97	8.456	8.455	(1.103)	2103159	40.0000	38
17	Benzene	78	8.775	8.774	(0.976)	2489844	40.0000	34
18	Carbon Tetrachloride	117	8.851	8.865	(0.985)	2191688	40.0000	36
* 19	1,4-Difluorobenzene	114	8.987	8.986	(1.000)	1521323	10.0000	
20	1,2-Dichloropropane	63	9.306	9.305	(1.035)	836098	40.0000	31
21	Trichloroethene	95	9.458	9.457	(1.052)	1190585	40.0000	33
22	cis-1,3-Dichloropropene	75	10.004	10.018	(1.113)	1273067	40.0000	38
23	trans-1,3-Dichloropropene	75	10.338	10.352	(1.150)	902592	40.0000	41(A)
24	1,1,2-Trichloroethane	83	10.474	10.474	(1.165)	880262	40.0000	30
25	Toluene	92	10.656	10.671	(0.900)	1813369	40.0000	42(A)
26	1,2-Dibromoethane	107	11.127	11.126	(0.940)	1421987	40.0000	38
27	Tetrachloroethene	166	11.415	11.414	(0.964)	1181587	40.0000	36
* 28	Chlorobenzene-d5	117	11.840	11.839	(1.000)	1233232	10.0000	
29	Chlorobenzene	112	11.871	11.870	(1.003)	2062839	40.0000	35
30	Ethylbenzene	91	12.098	12.097	(1.022)	3808982	40.0000	38
31	Xylene (m,p)	106	12.220	12.204	(1.032)	2881112	80.0000	78
32	Styrene	104	12.462	12.462	(1.053)	1617495	40.0000	38
M 33	Xylene (total)	106				4342379	40.0000	120(A)
34	1,1,2,2-Tetrachloroethane	83	12.538	12.522	(1.059)	2344631	40.0000	36
35	Xylene (o)	106	12.538	12.537	(1.059)	1461267	40.0000	40(A)
36	1,3,5-Trimethylbenzene	105	13.464	13.448	(1.137)	3244916	40.0000	42(A)
37	1,2,4-Trimethylbenzene	105	13.783	13.782	(1.164)	3174006	40.0000	42(A)
38	1,3-Dichlorobenzene	146	13.934	13.934	(1.177)	2308461	40.0000	42(A)
39	1,4-Dichlorobenzene	146	13.995	13.979	(1.182)	2319991	40.0000	40
40	1,2-Dichlorobenzene	146	14.283	14.267	(1.206)	1961819	40.0000	44(A)
41	1,2,4-Trichlorobenzene	180	15.831	15.831	(1.337)	508914	40.0000	64(A)
42	Hexachlorobutadiene	225	16.256	16.255	(1.373)	656131	40.0000	43(A)

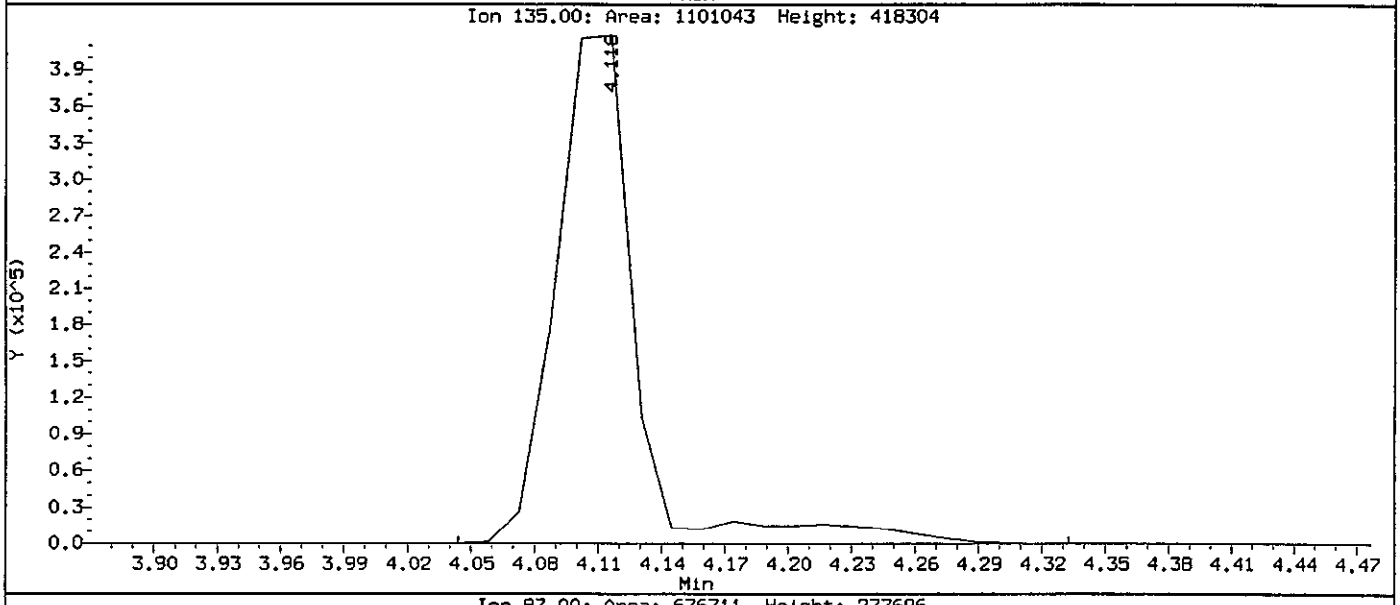
QC Flag Legend

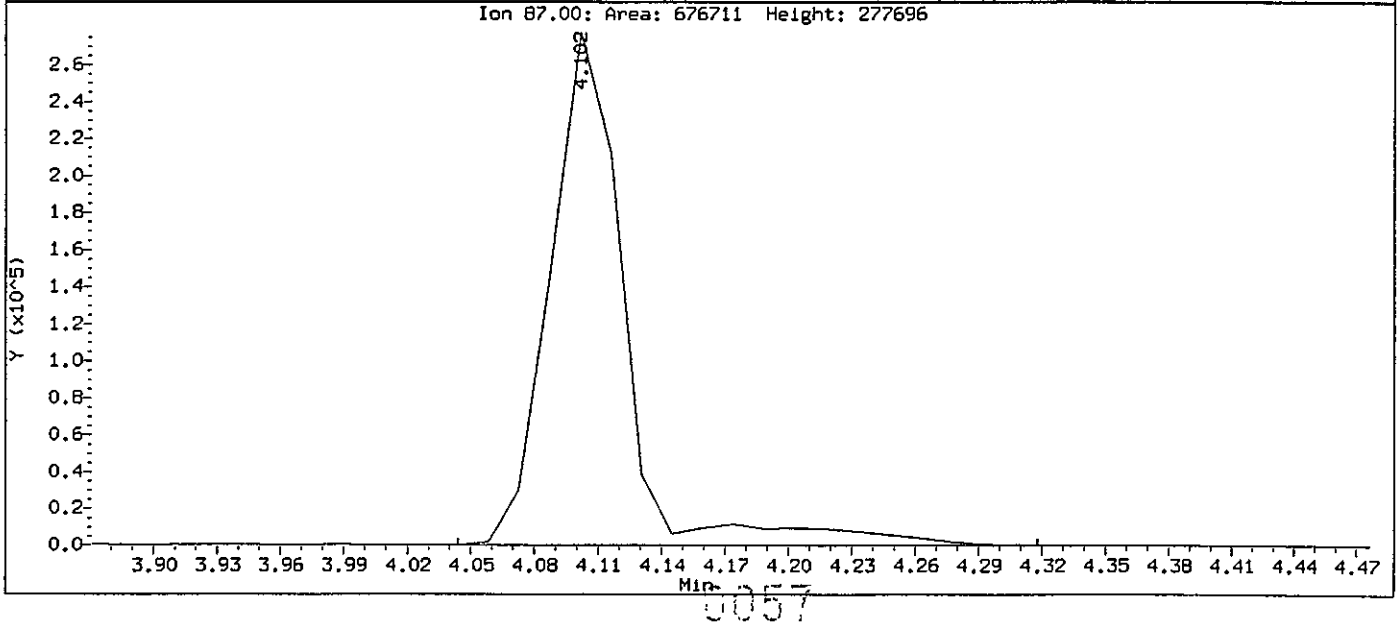
A - Target compound detected but, quantitated amount exceeded maximum amount.
M - Compound response manually integrated.

Data File: /chem/W.i/Wsvr.p/wcgto14.b/cg04012.d
Injection Date: 20-FEB-2001 14:27
Instrument: W.i
Client Sample ID: ASTD040

Compound: Dichlorotetrafluoroethane
CAS Number: 76-14-2

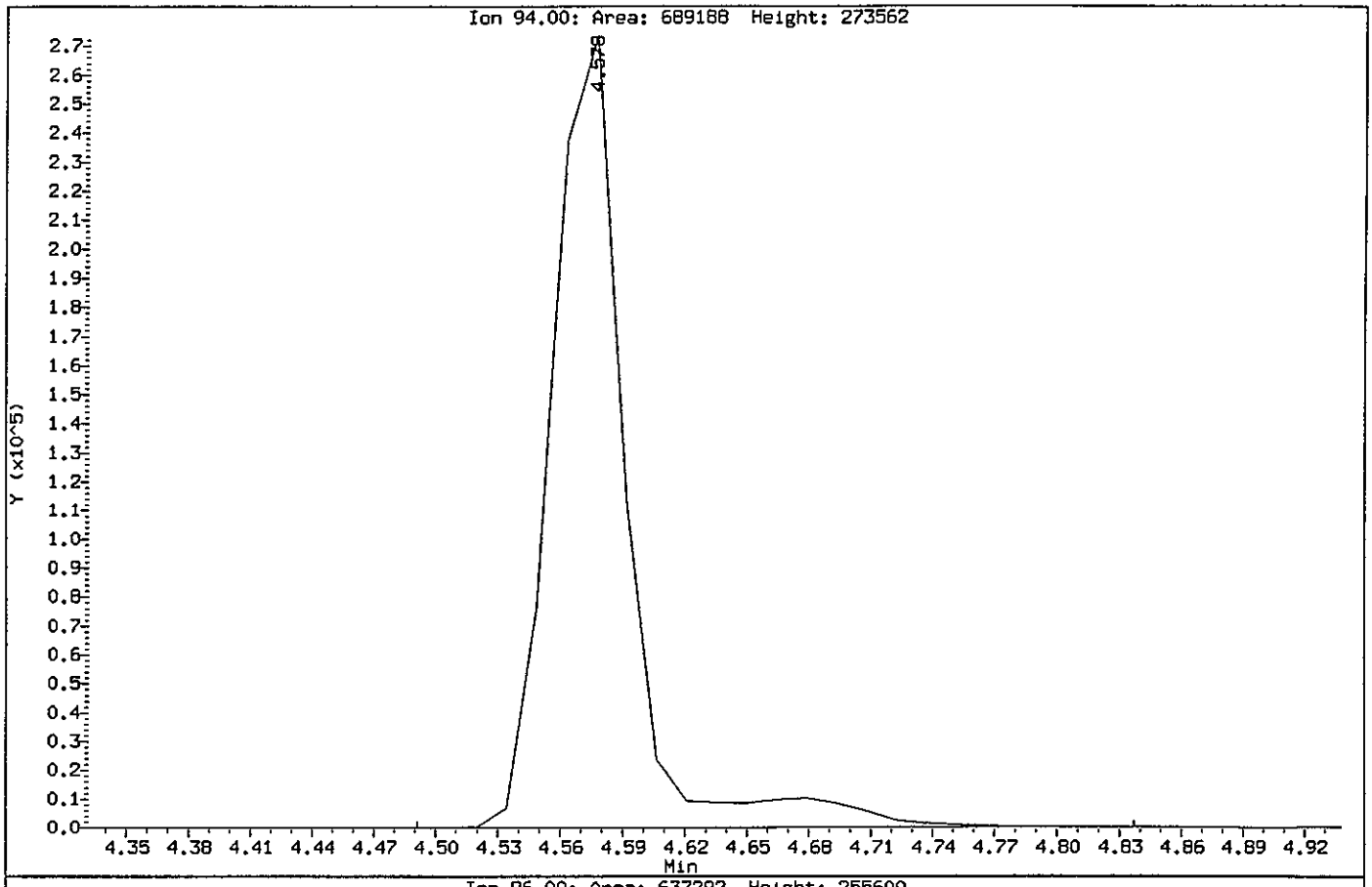


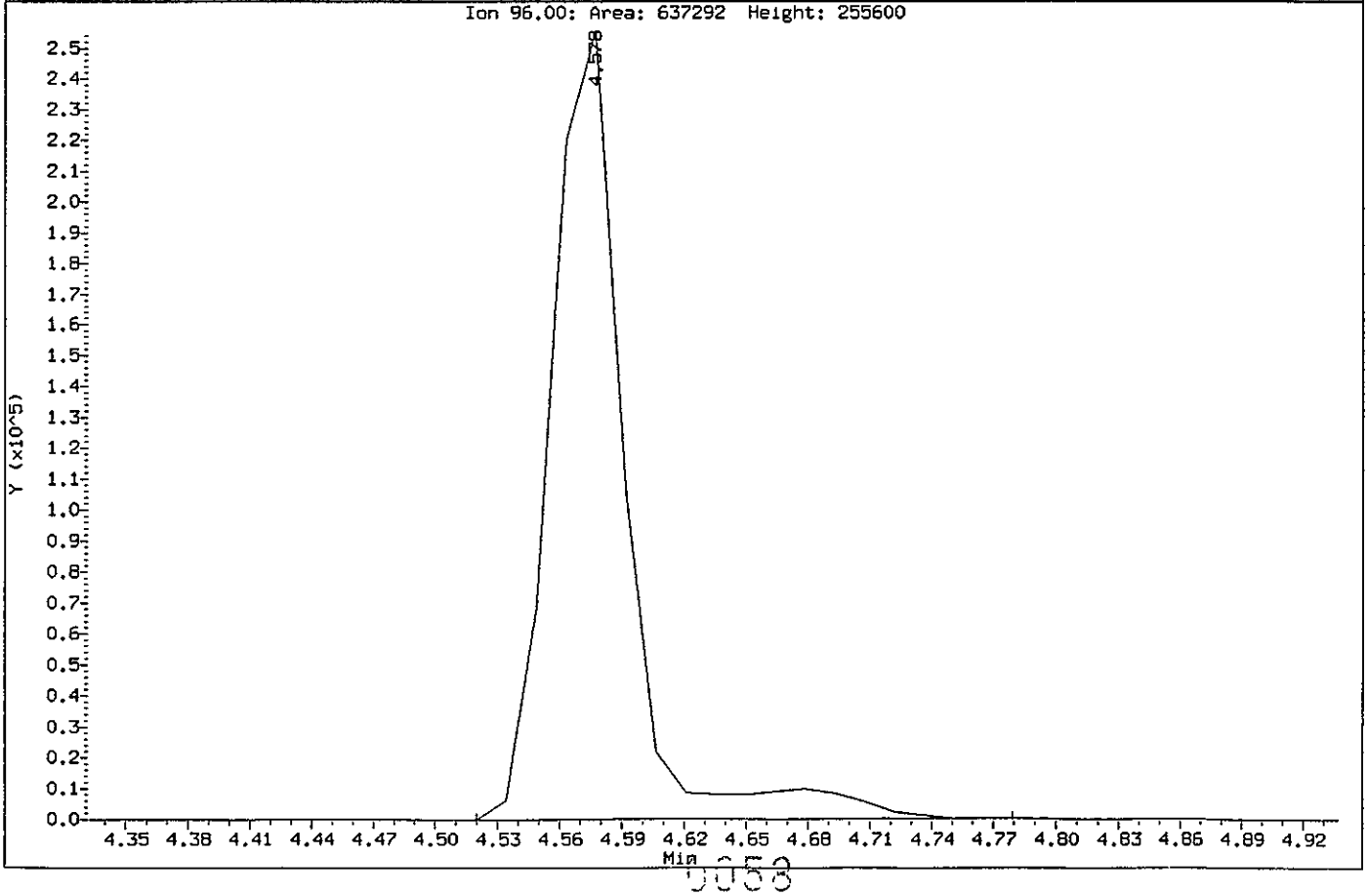




Data File: /chem/W.i/Wsvr.p/wcgto14.b/cg04012.d
Injection Date: 20-FEB-2001 14:27
Instrument: W.i
Client Sample ID: ASTD040

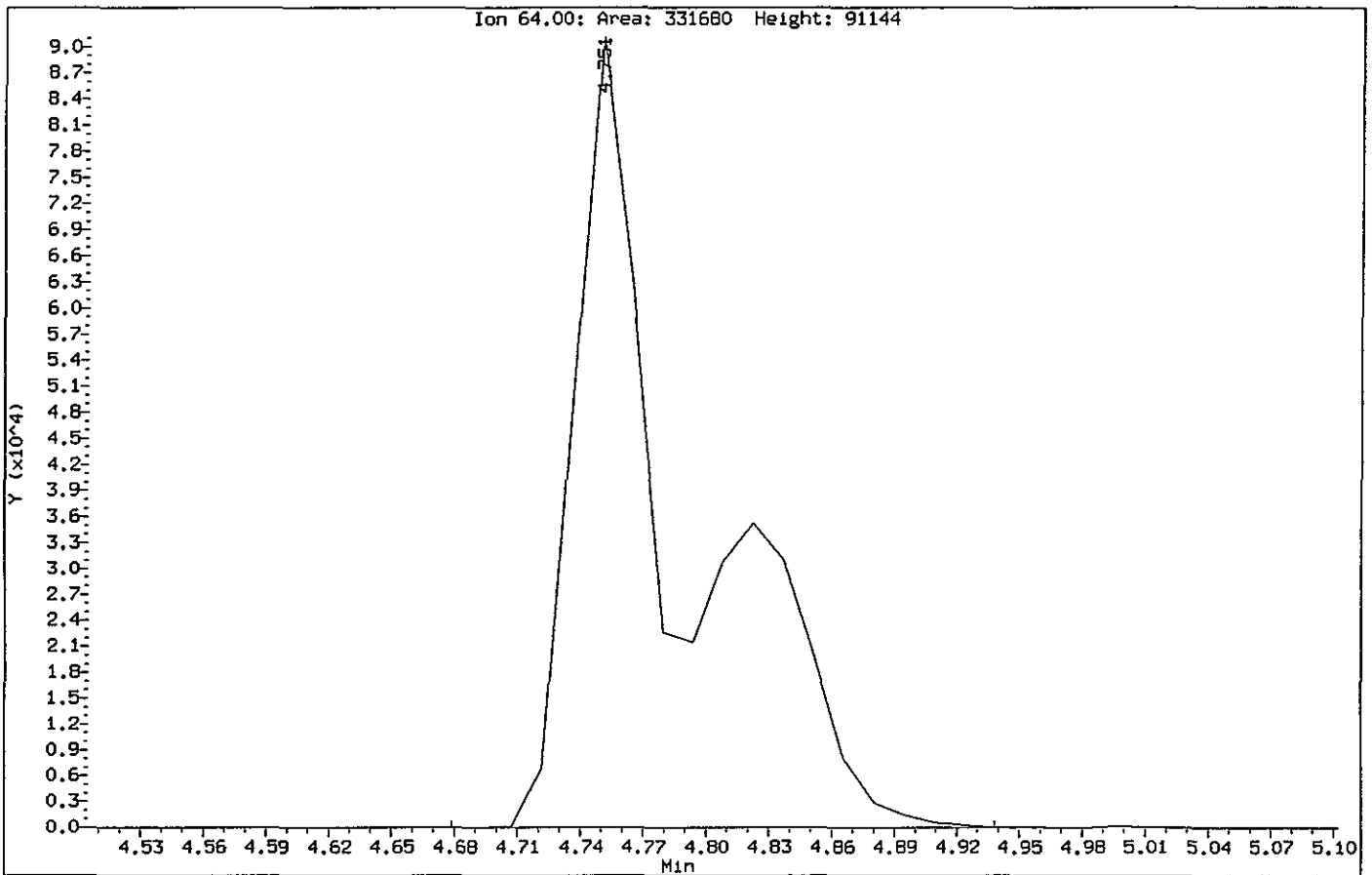
Compound: Bromomethane
CAS Number: 74-83-9

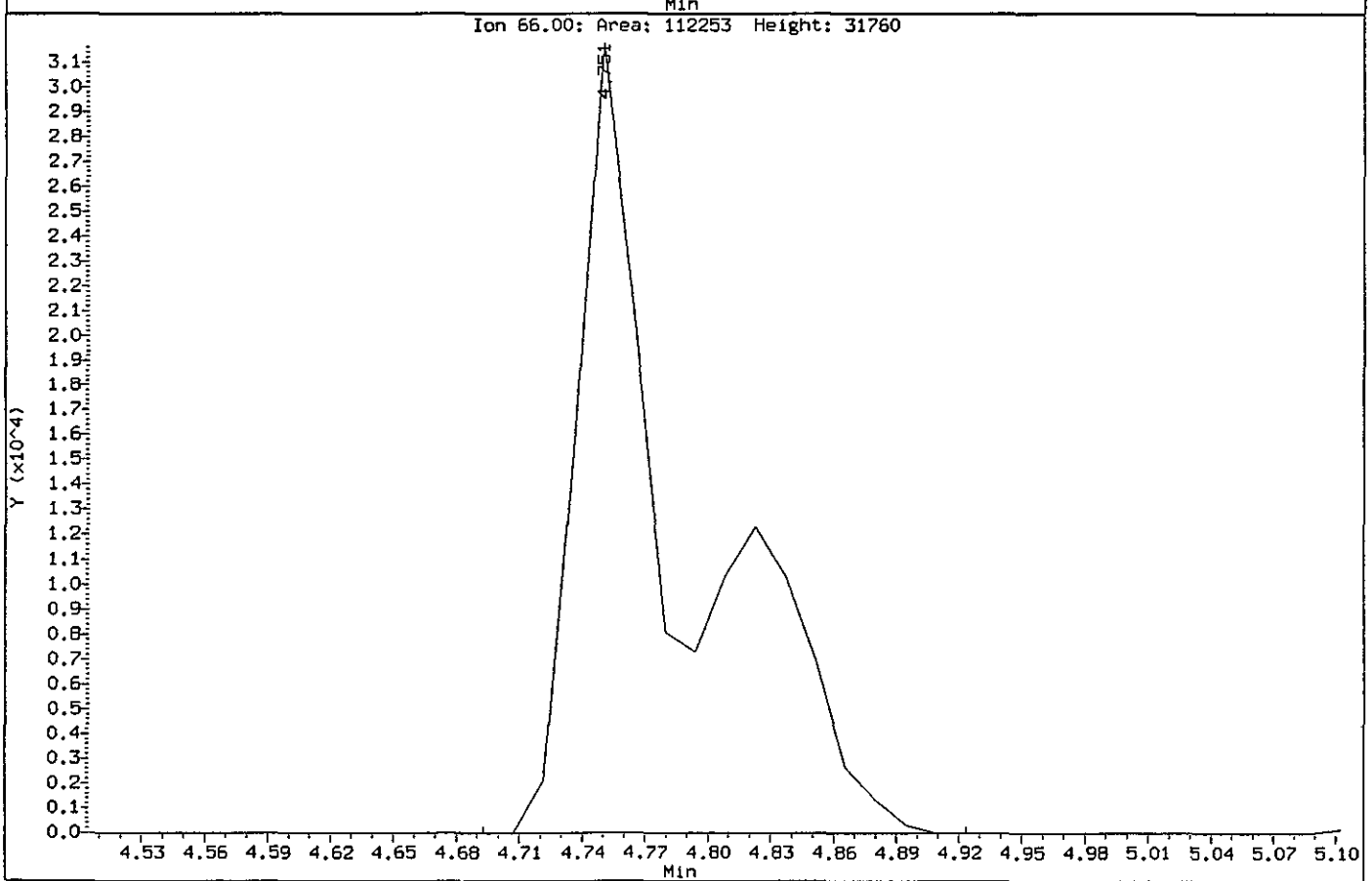




Data File: /chem/W.i/Wsvr.p/wcgto14.b/cg040i2.d
Injection Date: 20-FEB-2001 14:27
Instrument: W.i
Client Sample ID: ASTD040

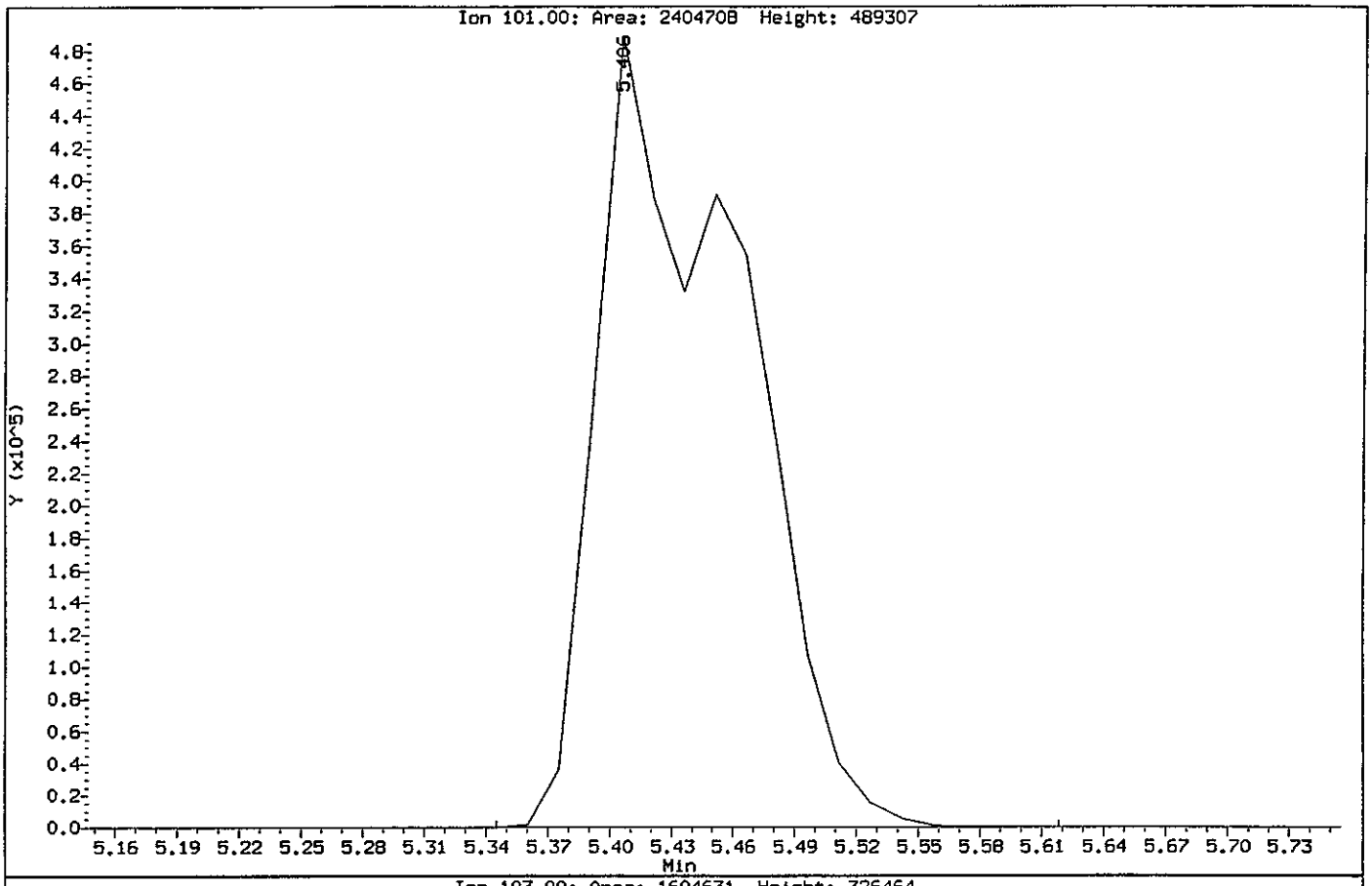
Compound: Chloroethane
CAS Number: 75-00-3

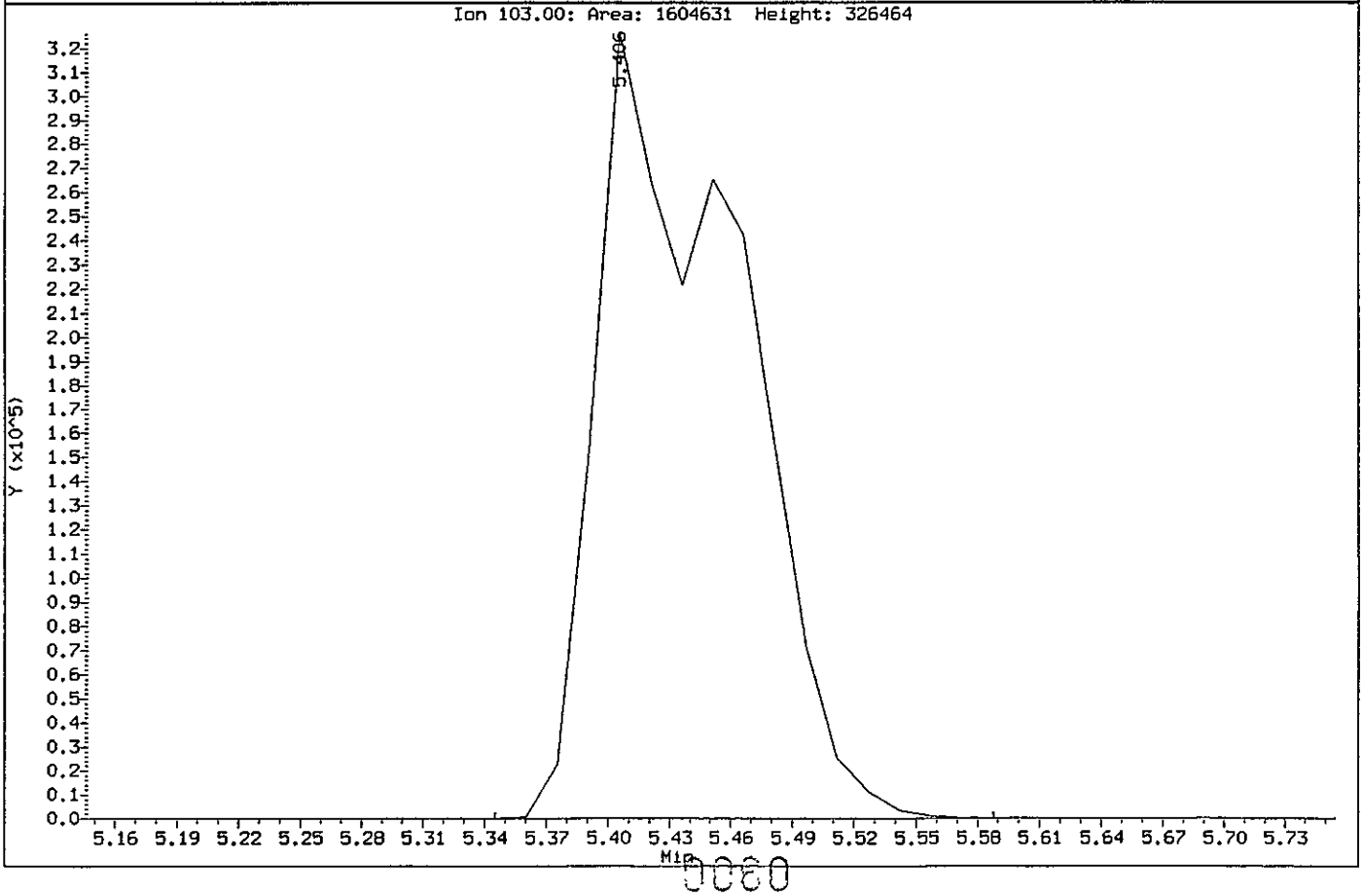




Data File: /chem/W.i/Wsvr.p/wcgto14.b/cg0401z.d
Injection Date: 20-FEB-2001 14:27
Instrument: W.i
Client Sample ID: ASTD040

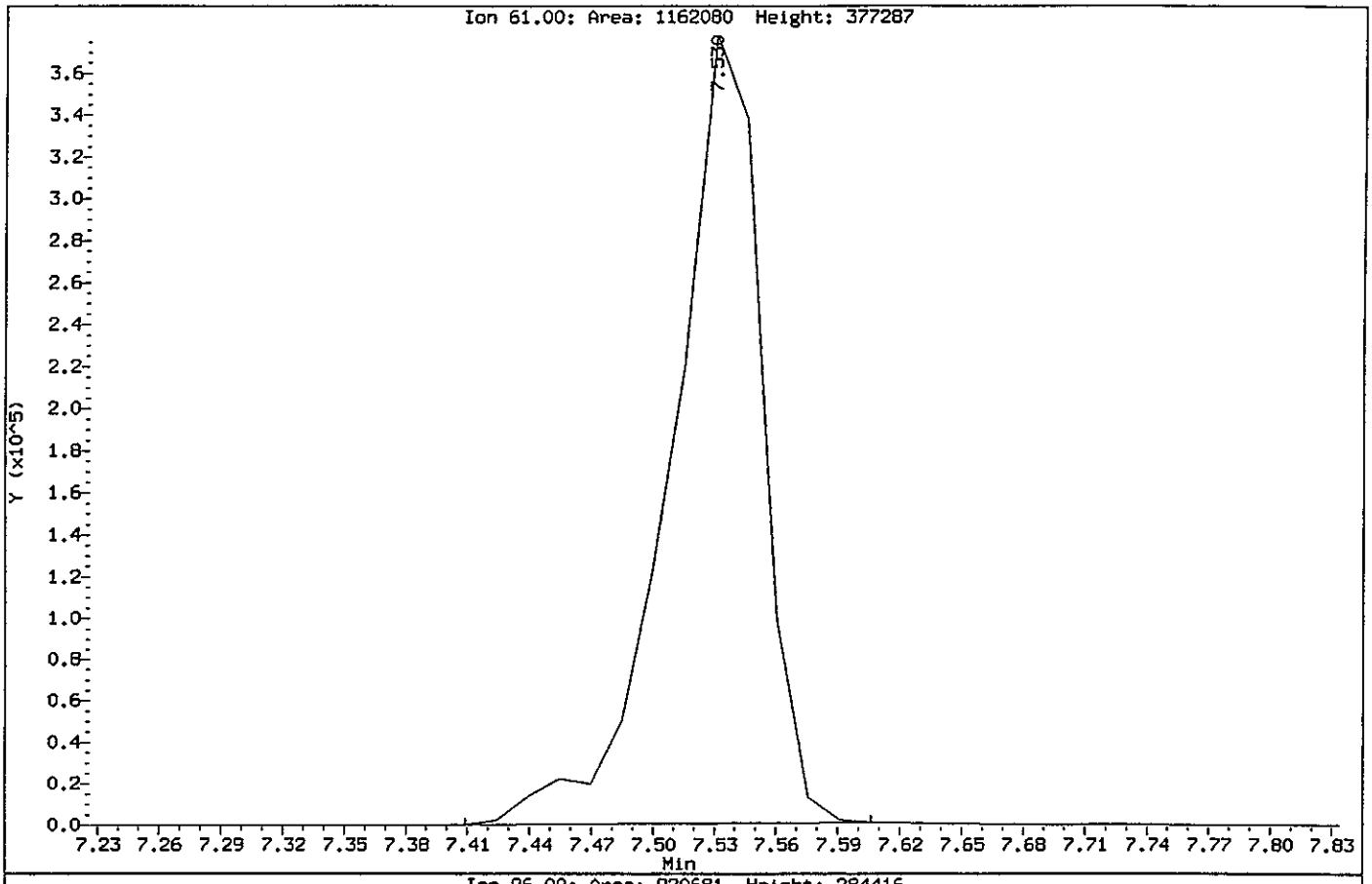
Compound: Trichlorofluoromethane
CAS Number: 75-69-4

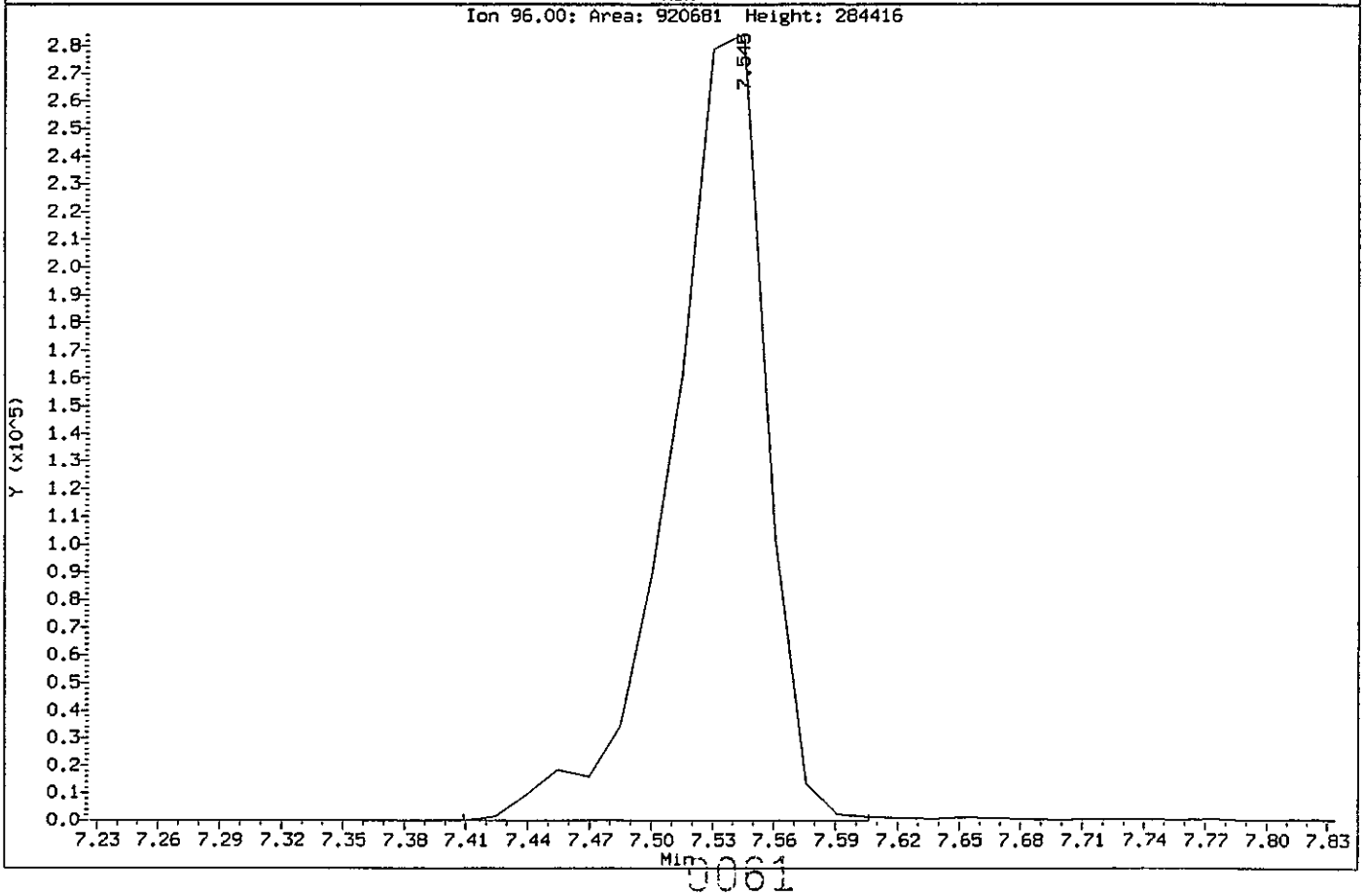




Data File: /chem/W.i/Wsvr.p/wcgto14.b/cg04012.d
Injection Date: 20-FEB-2001 14:27
Instrument: W.i
Client Sample ID: ASTD040

Compound: cis-1,2-Dichloroethene
CAS Number: 156-59-2





STL Burlington

INITIAL CALIBRATION DATA

Start Cal Date : 20-FEB-2001 11:29
End Cal Date : 20-FEB-2001 14:27
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/W.i/Wsvr.p/wcgto14.b/bto14a.m
Cal Date : 28-Feb-2001 13:40 mim
Curve Type : Average

Calibration File Names:
Level 1: /chem/W.i/Wsvr.p/wcgto14.b/cg0005i2.d
Level 2: /chem/W.i/Wsvr.p/wcgto14.b/cg005i2.d
Level 3: /chem/W.i/Wsvr.p/wcgto14.b/cg010.d
Level 4: /chem/W.i/Wsvr.p/wcgto14.b/cg020.d
Level 5: /chem/W.i/Wsvr.p/wcgto14.b/cg040i2.d

Compound	0.50000 Level 1	5.000 Level 2	10.000 Level 3	20.000 Level 4	40.000 Level 5	___ RRF	% RSD	
1 Dichlorodifluoromethane	2.72324	2.71129	1.93275	1.69527	1.49457	2.11142	27.205	
2 Chloromethane	0.65465	0.58527	0.42961	0.40197	0.36321	0.48694	25.898	
3 Dichlorotetrafluoroethane	2.90165	2.60752	1.96593	1.73819	1.57395	2.15745	26.519	
4 Vinyl Chloride	0.55060	0.59889	0.49264	0.43970	0.40073	0.49651	16.183	
5 Bromomethane	0.83449	0.84496	0.66390	0.59514	0.53875	0.69545	19.989	
6 Chloroethane	0.39741	0.40679	0.30390	0.28488	0.25928	0.33045	20.389	
7 Trichlorofluoromethane	2.80091	2.91148	2.02941	1.86650	1.87981	2.29762	22.431	
8 1,1-Dichloroethene	0.95015	0.92447	0.66663	0.61426	0.61074	0.75325	22.531	
9 Methylene Chloride	1.63637	1.08694	0.77340	0.71654	0.72757	0.98816	39.769	<-
10 Freon TF	1.90639	2.23729	1.58523	1.45173	1.45182	1.72649	19.731	
11 1,1-Dichloroethane	1.62126	1.79787	1.27211	1.17636	1.21072	1.41566	19.609	
12 cis-1,2-Dichloroethene	1.01802	1.10573	0.97237	0.89145	0.90842	0.97920	8.885	
14 Chloroform	2.13789	2.15403	1.72910	1.60591	1.64158	1.85370	14.598	
15 1,2-Dichloroethane	1.43468	1.47568	1.20355	1.13659	1.20404	1.29091	11.863	
16 1,1,1-Trichloroethane	1.88629	2.04046	1.58370	1.58602	1.64408	1.74811	11.747	
17 Benzene	0.50874	0.54692	0.50464	0.43611	0.40916	0.48111	11.781	
18 Carbon Tetrachloride	0.42604	0.46721	0.39836	0.37332	0.36016	0.40502	10.599	
20 1,2-Dichloropropane	0.20563	0.20969	0.19941	0.14329	0.13740	0.17908	19.888	
21 Trichloroethene	0.26180	0.27560	0.24955	0.21144	0.19565	0.23881	14.215	
22 cis-1,3-Dichloropropene	0.17000	0.25232	0.24587	0.21614	0.20920	0.21871	15.055	
23 trans-1,3-Dichloropropene	0.11258	0.15821	0.15967	0.14521	0.14832	0.14480	13.155	
24 1,1,2-Trichloroethane	0.22194	0.23152	0.20967	0.17101	0.14465	0.19576	18.738	
25 Toluene	0.29179	0.38724	0.36283	0.34375	0.36761	0.35065	10.368	
26 1,2-Dibromoethane	0.29342	0.33518	0.30870	0.29781	0.28826	0.30468	6.118	
27 Tetrachloroethene	0.26588	0.29043	0.27499	0.25645	0.23953	0.26546	7.217	
29 Chlorobenzene	0.55312	0.51327	0.46626	0.44415	0.41818	0.47900	11.312	

STL Burlington

INITIAL CALIBRATION DATA

Start Cal Date : 20-FEB-2001 11:29
End Cal Date : 20-FEB-2001 14:27
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/W.i/Wsvr.p/wcgto14.b/bto14a.m
Cal Date : 28-Feb-2001 13:40 mim
Curve Type : Average

	Compound	0.50000 Level 1	5.000 Level 2	10.000 Level 3	20.000 Level 4	40.000 Level 5	___ RRF	% RSD	
	30 Ethylbenzene	0.71387	0.91667	0.82497	0.79249	0.77215	0.80403	9.308	
	31 Xylene (m,p)	0.28899	0.32840	0.29599	0.28699	0.29203	0.29848	5.719	
	32 Styrene	0.29626	0.35240	0.37673	0.35917	0.32790	0.34249	9.116	
M	33 Xylene (total)	0.27251	0.32112	0.28882	0.28373	0.29623	0.29248	6.218	
	34 1,1,2,2-Tetrachloroethane	0.59821	0.57647	0.49331	0.47179	0.47530	0.52302	11.430	
	35 Xylene (o)	0.27251	0.32112	0.28882	0.28373	0.29623	0.29248	6.218	
	36 1,3,5-Trimethylbenzene	0.51894	0.71696	0.64769	0.62702	0.65781	0.63368	11.414	
	37 1,2,4-Trimethylbenzene	0.51165	0.64529	0.61408	0.60794	0.64343	0.60448	9.025	
	38 1,3-Dichlorobenzene	0.50712	0.48988	0.39271	0.39611	0.46797	0.45076	11.822	
	39 1,4-Dichlorobenzene	0.52907	0.40946	0.46382	0.48452	0.47031	0.47144	9.119	
	40 1,2-Dichlorobenzene	0.37337	0.35342	0.34070	0.36033	0.39770	0.36511	5.947	
	41 1,2,4-Trichlorobenzene	0.06923	0.03418	0.04714	0.06948	0.10317	0.06464	40.662	<-
	42 Hexachlorobutadiene	0.16820	0.11287	0.09838	0.10927	0.13301	0.12435	22.139	

FORM 7
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 82093

Instrument ID: W Calibration Date: 03/23/01 Time: 0931

Lab File ID: CG010D Init. Calib. Date(s): 02/20/01 02/20/01

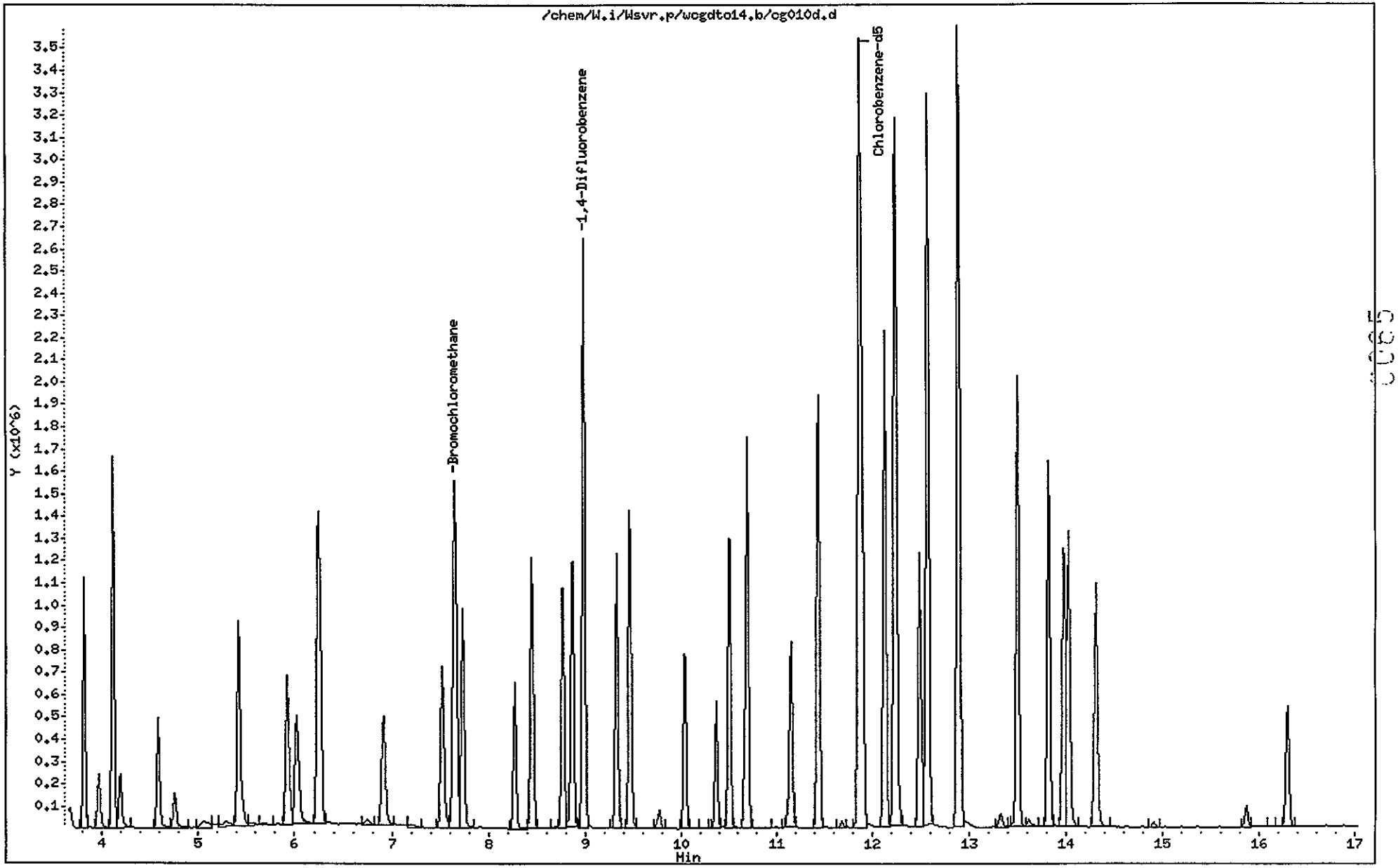
Heated Purge: (Y/N) N Init. Calib. Times: 1129 1427

GC Column: DB-1 ID: 0.35 (mm)

COMPOUND	$\overline{RRF}$	RRF10	MIN RRF	%D	MAX %D
Chloromethane	0.487	0.550	0.1	12.9	30.0
Vinyl Chloride	0.497	0.591	0.01	18.9	30.0
Bromomethane	0.695	0.731	0.01	5.2	30.0
Chloroethane	0.330	0.366	0.01	10.9	30.0
Trichlorofluoromethane	2.297	1.936	0.01	15.7	30.0
Methylene Chloride	0.988	0.740	0.01	25.1	30.0
1,1-Dichloroethane	1.416	1.248	0.1	11.9	30.0
cis-1,2-Dichloroethene	0.979	1.045	0.01	6.7	30.0
Chloroform	1.854	1.761	0.01	5.0	30.0
1,1,1-Trichloroethane	1.748	1.671	0.01	4.4	30.0
Carbon Tetrachloride	0.405	0.375	0.01	7.4	30.0
Benzene	0.481	0.518	0.01	7.7	30.0
1,2-Dichloroethane	1.291	1.171	0.01	9.3	30.0
Trichloroethene	0.239	0.246	0.01	2.9	30.0
1,2-Dichloropropane	0.179	0.197	0.01	10.0	30.0
cis-1,3-Dichloropropene	0.219	0.249	0.01	13.7	30.0
Toluene	0.351	0.374	0.01	6.6	30.0
trans-1,3-Dichloropropene	0.145	0.160	0.01	10.3	30.0
1,1,2-Trichloroethane	0.196	0.206	0.01	5.1	30.0
Tetrachloroethene	0.265	0.290	0.01	9.4	30.0
Chlorobenzene	0.479	0.471	0.3	1.7	30.0
Ethylbenzene	0.804	0.845	0.01	5.1	30.0
Xylene (total)	0.292	0.296	0.01	1.4	30.0
Styrene	0.342	0.322	0.01	5.8	30.0
Xylene (m,p)	0.298	0.300	0.01	0.7	30.0
Xylene (o)	0.292	0.296	0.01	1.4	30.0
1,1,2,2-Tetrachloroethane	0.523	0.436	0.01	16.6	30.0
1,3-Dichlorobenzene	0.451	0.343	0.01	23.9	30.0
1,4-Dichlorobenzene	0.471	0.384	0.01	18.5	30.0
1,2-Dichlorobenzene	0.365	0.277	0.01	24.1	30.0

Data File: /chem/W.i/Wsvr.p/wcgdto14.b/cg010d.d
Date : 23-MAR-2001 09:31
Client ID: ASTD010
Sample Info: ASTD010;ASTD010
Purge Volume: 200.0
Column phase: DB-1

Instrument: W.i
Operator: GMM
Column diameter: 0.35



STL Burlington

AIR TOXICS QUANTITATION REPORT

Data file : /chem/W.i/Wsvr.p/wcgdto14.b/cg010d.d
Lab Smp Id: ASTD010 Client Smp ID: ASTD010
Inj Date : 23-MAR-2001 09:31
Operator : GMM Inst ID: W.i
Smp Info : ASTD010;ASTD010
Misc Info :
Comment :
Method : /chem/W.i/Wsvr.p/wcgdto14.b/bto14a.m
Meth Date : 27-Mar-2001 10:20 mim Quant Type: ISTD
Cal Date : 20-FEB-2001 14:27 Cal File: cg040i2.d
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ACCANA2.sub
Target Version: 3.50
Processing Host: chemsvr4

Concentration Formula: Amt * DF * X* Uf/Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
X	200.00000	method volume factor
Uf	1.00000	ng unit correction factor
Vo	200.00000	Sample Volume purged (mL)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	AMOUNTS ON-COL (ppbv)
2 Chloromethane	50	3.975	4.011	(0.519)	269850	10.0000	11
4 Vinyl Chloride	62	4.205	4.242	(0.550)	290042	10.0000	12
5 Bromomethane	94	4.580	4.631	(0.599)	358353	10.0000	10
6 Chloroethane	64	4.753	4.804	(0.621)	179522	10.0000	11
7 Trichlorofluoromethane	101	5.406	5.450	(0.706)	949773	10.0000	8.4
9 Methylene Chloride	49	6.029	6.057	(0.788)	362772	10.0000	7.5
11 1,1-Dichloroethane	63	6.924	6.953	(0.905)	612322	10.0000	8.8
12 cis-1,2-Dichloroethene	61	7.516	7.529	(0.982)	512694	10.0000	11
* 13 Bromochloromethane	128	7.652	7.666	(1.000)	490459	10.0000	
14 Chloroform	83	7.728	7.742	(1.010)	863632	10.0000	9.5
15 1,2-Dichloroethane	62	8.275	8.273	(1.081)	574241	10.0000	9.1
16 1,1,1-Trichloroethane	97	8.442	8.455	(1.103)	819714	10.0000	9.6
17 Benzene	78	8.775	8.774	(0.976)	1149763	10.0000	11
18 Carbon Tetrachloride	117	8.867	8.865	(0.986)	832153	10.0000	9.3

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	ON-COL (ppbv)
*	19 1,4-Difluorobenzene	114	8.988	8.986	(1.000)	2218153	10.0000	
	20 1,2-Dichloropropane	63	9.322	9.305	(1.037)	436808	10.0000	11
	21 Trichloroethene	95	9.458	9.457	(1.052)	544926	10.0000	10
	22 cis-1,3-Dichloropropene	75	10.035	10.018	(1.117)	553010	10.0000	11
	23 trans-1,3-Dichloropropene	75	10.369	10.352	(1.154)	356083	10.0000	11
	24 1,1,2-Trichloroethane	83	10.490	10.474	(1.167)	456128	10.0000	10
	25 Toluene	92	10.688	10.671	(0.900)	867729	10.0000	11
	27 Tetrachloroethene	166	11.446	11.414	(0.964)	671359	10.0000	11
*	28 Chlorobenzene-d5	117	11.871	11.839	(1.000)	2318539	10.0000	
	29 Chlorobenzene	112	11.902	11.870	(1.003)	1092637	10.0000	9.8
	30 Ethylbenzene	91	12.129	12.097	(1.022)	1958874	10.0000	10
	31 Xylene (m,p)	106	12.251	12.204	(1.032)	1391127	20.0000	20
	32 Styrene	104	12.493	12.462	(1.052)	746359	10.0000	9.4
M	33 Xylene (total)	106				2076574	10.0000	31
	34 1,1,2,2-Tetrachloroethane	83	12.569	12.522	(1.059)	1012267	10.0000	8.3
	35 Xylene (o)	106	12.569	12.537	(1.059)	685447	10.0000	10
	38 1,3-Dichlorobenzene	146	13.981	13.934	(1.178)	795322	10.0000	7.6
	39 1,4-Dichlorobenzene	146	14.026	13.979	(1.182)	889806	10.0000	8.1
	40 1,2-Dichlorobenzene	146	14.315	14.267	(1.206)	642409	10.0000	7.6

STL Burlington

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: W.i Injection Date: 23-MAR-2001 09:31
Lab File ID: cg010d.d Init. Cal. Date(s): 20-FEB-2001 20-FEB-2001
Analysis Type: AIR Init. Cal. Times: 11:29 14:27
Lab Sample ID: ASTD010 Quant Type: ISTD
Method: /chem/W.i/Wsvr.p/wcgdto14.b/bto14a.m

	COMPOUND	RRF / AMOUNT	RF10	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
	2 Chloromethane	0.48694	0.55020	0.100	-12.99032	30.00000	Averaged
	4 Vinyl Chloride	0.49651	0.59137	0.010	-19.10464	30.00000	Averaged
	5 Bromomethane	0.69545	0.73065	0.010	-5.06150	30.00000	Averaged
	6 Chloroethane	0.33045	0.36603	0.010	-10.76633	30.00000	Averaged
	7 Trichlorofluoromethane	2.29762	1.93650	0.010	15.71723	30.00000	Averaged
	9 Methylene Chloride	0.98816	0.73966	0.010	25.14829	30.00000	Averaged
	11 1,1-Dichloroethane	1.41566	1.24847	0.100	11.81049	30.00000	Averaged
	12 cis-1,2-Dichloroethene	0.97920	1.04534	0.010	-6.75403	30.00000	Averaged
	14 Chloroform	1.85370	1.76086	0.010	5.00821	30.00000	Averaged
	15 1,2-Dichloroethane	1.29091	1.17082	0.010	9.30235	30.00000	Averaged
	16 1,1,1-Trichloroethane	1.74811	1.67132	0.010	4.39268	30.00000	Averaged
	17 Benzene	0.48111	0.51834	0.010	-7.73818	30.00000	Averaged
	18 Carbon Tetrachloride	0.40502	0.37516	0.010	7.37320	30.00000	Averaged
	20 1,2-Dichloropropane	0.17908	0.19692	0.010	-9.96294	30.00000	Averaged
	21 Trichloroethene	0.23881	0.24567	0.010	-2.87259	30.00000	Averaged
	22 cis-1,3-Dichloropropene	0.21871	0.24931	0.010	-13.99298	30.00000	Averaged
	23 trans-1,3-Dichloropropene	0.14480	0.16053	0.010	-10.86512	30.00000	Averaged
	24 1,1,2-Trichloroethane	0.19576	0.20563	0.010	-5.04604	30.00000	Averaged
	25 Toluene	0.35065	0.37426	0.010	-6.73355	30.00000	Averaged
	27 Tetrachloroethene	0.26546	0.28956	0.010	-9.08000	30.00000	Averaged
	29 Chlorobenzene	0.47900	0.47126	0.300	1.61489	30.00000	Averaged
	30 Ethylbenzene	0.80403	0.84487	0.010	-5.07972	30.00000	Averaged
	31 Xylene (m,p)	0.29848	0.30000	0.010	-0.50920	30.00000	Averaged
	32 Styrene	0.34249	0.32191	0.010	6.00967	30.00000	Averaged
M	33 Xylene (total)	0.29248	0.29564	0.010	-1.07817	30.00000	Averaged
	34 1,1,2,2-Tetrachloroethane	0.52302	0.43660	0.010	16.52360	30.00000	Averaged
	35 Xylene (o)	0.29248	0.29564	0.010	-1.07817	30.00000	Averaged
	38 1,3-Dichlorobenzene	0.45076	0.34303	0.010	23.90010	30.00000	Averaged
	39 1,4-Dichlorobenzene	0.47144	0.38378	0.010	18.59369	30.00000	Averaged
	40 1,2-Dichlorobenzene	0.36511	0.27707	0.010	24.11098	30.00000	Averaged

SEVERN TRENT SERVICES

Severn Trent Laboratories, Inc.

METHOD TO-14A
VOLATILE ORGANIC ANALYSIS

RAW QC DATA

Data File: /chem/W.i/Wsvr.p/wcgto14.b/cg001p.d

Date : 20-FEB-2001 10:05

Client ID: WBFB001

Instrument: W.i

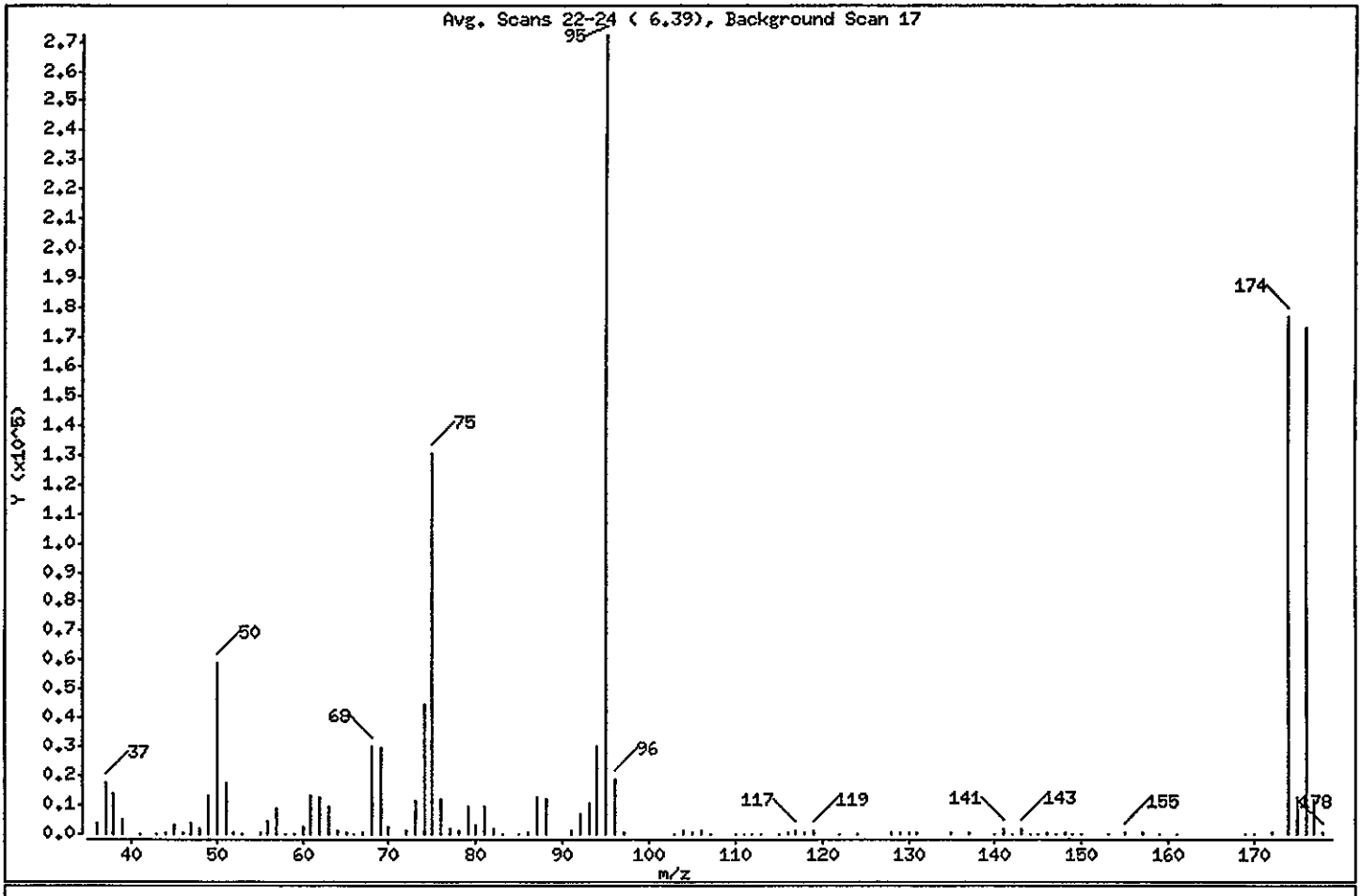
Sample Info: WBFB001

Operator: GMM

Column phase: DB-1

Column diameter: 0.32

$ 1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	8.00 - 40.00% of mass 95	21.62
75	30.00 - 66.00% of mass 95	47.92
96	5.00 - 9.00% of mass 95	7.00
173	Less than 2.00% of mass 174	0.00 (0.00)
174	50.00 - 120.00% of mass 95	65.03
175	4.00 - 9.00% of mass 174	4.63 (7.12)
176	93.00 - 101.00% of mass 174	63.70 (97.96)
177	5.00 - 9.00% of mass 176	4.28 (6.72)

Data File: /chem/W.i/Wsvr.p/wcgto14.b/cg001p.d

Date : 20-FEB-2001 10:05

Client ID: WBFB001 Instrument: W.i

Sample Info: WBFB001

Operator: GMH

Column phase: DB-1 Column diameter: 0.32

Data File: cg001p.d

Spectrum: Avg. Scans 22-24 (6.39), Background Scan 17

Location of Maximum: 95.00

Number of points: 101

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	3480	65.00	594	95.00	272256	141.00	1862
37.00	17312	66.00	281	96.00	19048	142.00	265
38.00	14112	67.00	791	97.00	523	143.00	2146
39.00	5226	68.00	30240	103.00	117	144.00	53
41.00	111	69.00	29536	104.00	1169	145.00	210
43.00	179	70.00	2265	105.00	450	146.00	369
44.00	574	72.00	1455	106.00	1163	147.00	66
45.00	2866	73.00	11561	107.00	283	148.00	535
46.00	324	74.00	44320	110.00	169	149.00	66
47.00	3985	75.00	130488	111.00	122	150.00	225
48.00	2065	76.00	11756	112.00	168	153.00	191
49.00	12986	77.00	1680	113.00	219	155.00	573
50.00	58856	78.00	1035	115.00	281	157.00	364
51.00	17728	79.00	9158	116.00	879	159.00	158
52.00	664	80.00	2885	117.00	1087	161.00	288
53.00	87	81.00	9715	118.00	904	169.00	51
55.00	893	82.00	1835	119.00	982	170.00	53
56.00	4113	83.00	305	122.00	57	172.00	577
57.00	8719	85.00	119	124.00	242	174.00	177024
58.00	102	86.00	409	128.00	909	175.00	12608
59.00	82	87.00	12650	129.00	430	176.00	173440
60.00	2559	88.00	12199	130.00	659	177.00	11649
61.00	13136	91.00	1027	131.00	340	178.00	319
62.00	12832	92.00	6680	135.00	462		
63.00	9715	93.00	10855	137.00	423		
64.00	1105	94.00	30264	140.00	126		

Data File: /chem/W.i/Wsvr.p/wcgto14.b/cg001p.d

Date : 20-FEB-2001 10:05

Client ID: WBFB001

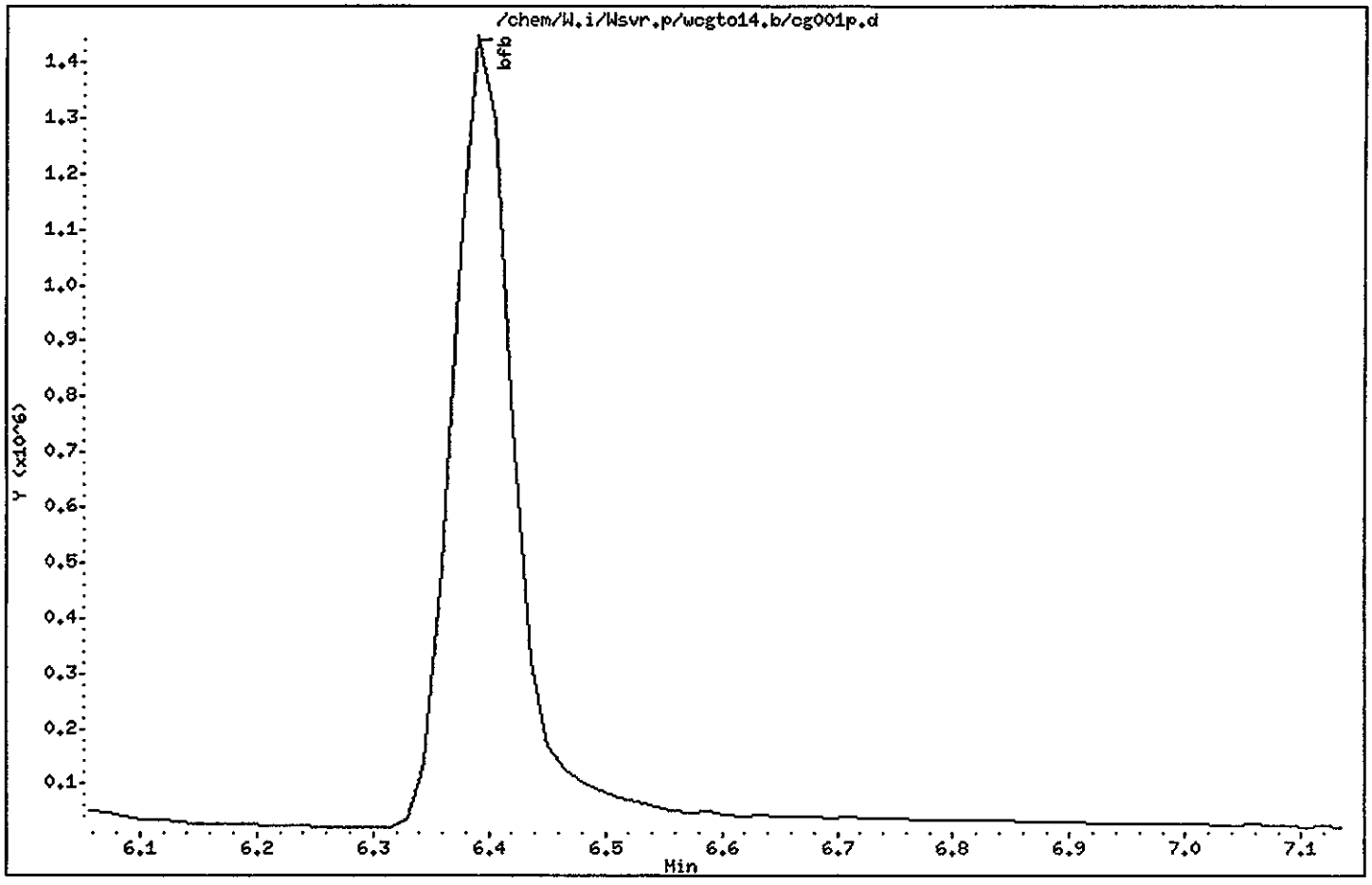
Instrument: W.i

Sample Info: WBFB001

Operator: GMM

Column phase: DB-1

Column diameter: 0.32



Data File: /chem/W.i/Wsvr.p/wcgdto14.b/cg005p.d

Date : 23-MAR-2001 09:10

Client ID: WBFB005

Instrument: W.i

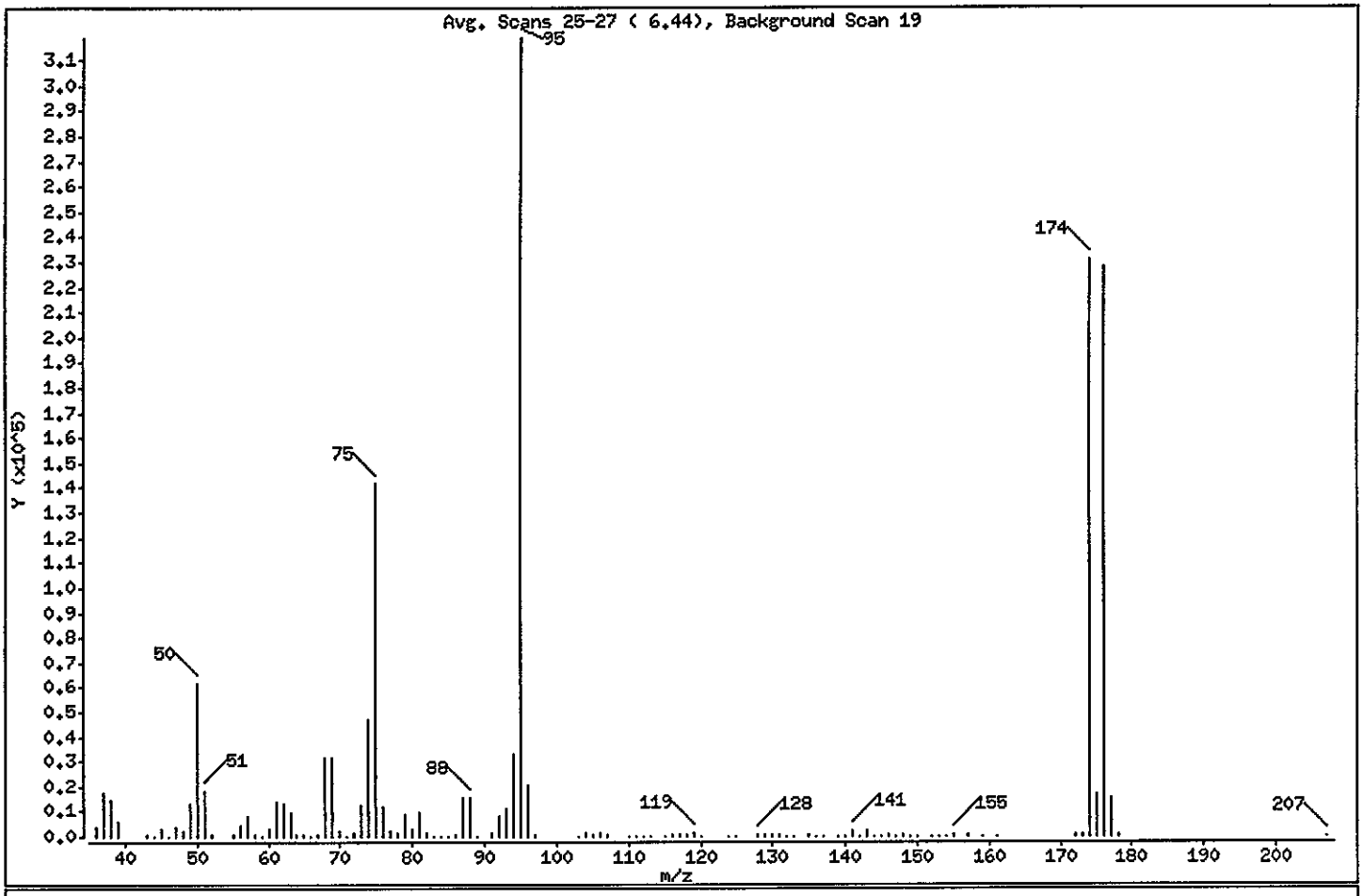
Sample Info: WBFB005

Operator: GMM

Column phase: DB-1

Column diameter: 0.32

$ 1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	8.00 - 40.00% of mass 95	19.43
75	30.00 - 66.00% of mass 95	44.56
96	5.00 - 9.00% of mass 95	6.55
173	Less than 2.00% of mass 174	0.33 (0.46)
174	50.00 - 120.00% of mass 95	72.41
175	4.00 - 9.00% of mass 174	5.35 (7.39)
176	93.00 - 101.00% of mass 174	71.41 (98.61)
177	5.00 - 9.00% of mass 176	4.80 (6.72)

Data File: /chem/W.i/Wsvr.p/wcgdto14.b/cg005p.d

Date : 23-MAR-2001 09:10

Client ID: WBFB005

Instrument: W.i

Sample Info: WBFB005

Operator: GMM

Column phase: DB-1

Column diameter: 0.32

Data File: cg005p.d

Spectrum: Avg. Scans 25-27 (6,44), Background Scan 19

Location of Maximum: 95.00

Number of points: 109

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	3391	69.00	31368	103.00	152	141.00	2476
37.00	17664	70.00	2363	104.00	1116	142.00	209
38.00	14411	71.00	295	105.00	386	143.00	2197
39.00	5703	72.00	1468	106.00	1309	144.00	124
43.00	394	73.00	12789	107.00	371	145.00	211
44.00	295	74.00	47216	110.00	200	146.00	417
45.00	2952	75.00	142080	111.00	261	147.00	222
46.00	217	76.00	11765	112.00	157	148.00	686
47.00	3984	77.00	1901	113.00	152	149.00	123
48.00	2014	78.00	1165	115.00	339	150.00	220
49.00	12928	79.00	8514	116.00	945	152.00	52
50.00	61976	80.00	2954	117.00	648	153.00	229
51.00	18480	81.00	9661	118.00	816	154.00	51
52.00	608	82.00	1201	119.00	1169	155.00	687
55.00	855	83.00	65	120.00	105	157.00	403
56.00	4592	84.00	52	124.00	194	159.00	303
57.00	8370	85.00	3	125.00	65	161.00	289
58.00	433	86.00	438	128.00	1102	172.00	532
59.00	53	87.00	15613	129.00	413	173.00	1054
60.00	2965	88.00	15631	130.00	1068	174.00	230912
61.00	13878	89.00	58	131.00	426	175.00	17064
62.00	13537	91.00	1203	132.00	127	176.00	227712
63.00	9831	92.00	8067	133.00	53	177.00	15298
64.00	970	93.00	11339	135.00	502	178.00	450
65.00	542	94.00	33392	136.00	58	207.00	137
66.00	36	95.00	318912	137.00	365		
67.00	748	96.00	20880	139.00	57		
68.00	31792	97.00	738	140.00	152		

Data File: /chem/W.i/Wsvr.p/wcgdto14.b/cg005p.d

Date : 23-MAR-2001 09:10

Client ID: WBFB005

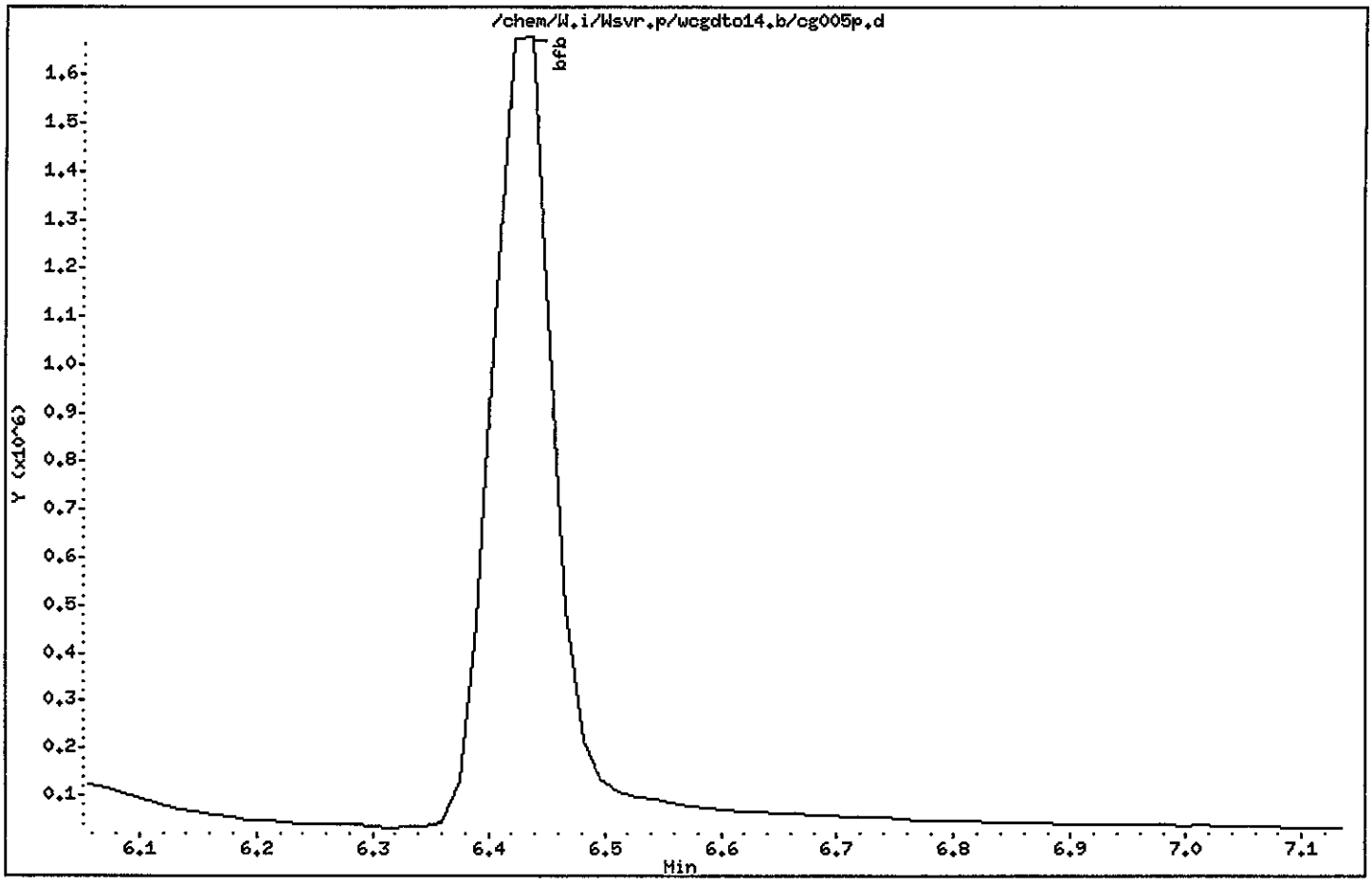
Instrument: W.i

Sample Info: WBFB005

Operator: GMM

Column phase: DB-1

Column diameter: 0.32



FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ABLKW6

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 82093

Matrix: (soil/water) AIR Lab Sample ID: ABLKW6

Sample wt/vol: 200(g/mL) ML Lab File ID: CGC001D

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

% Moisture: not dec. _____ Date Analyzed: 03/23/01

GC Column: DB-1 ID: 0.35 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) PPBV	Q
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl Chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-09-2	Methylene Chloride	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
56-23-5	Carbon Tetrachloride	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-88-3	Toluene	0.50	U
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
1330-20-7	Xylene (total)	0.50	U
100-42-5	Styrene	0.50	U
1330-20-7	Xylene (m,p)	0.50	U
95-47-6	Xylene (o)	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

ABLKW6

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 82093

Matrix: (soil/water) AIR Lab Sample ID: ABLKW6

Sample wt/vol: 200 (g/mL) ML Lab File ID: CGC001D

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

% Moisture: not dec. _____ Date Analyzed: 03/23/01

GC Column: DB-1 ID: 0.35 (mm) Dilution Factor: 1.0

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

Number TICs found: 0

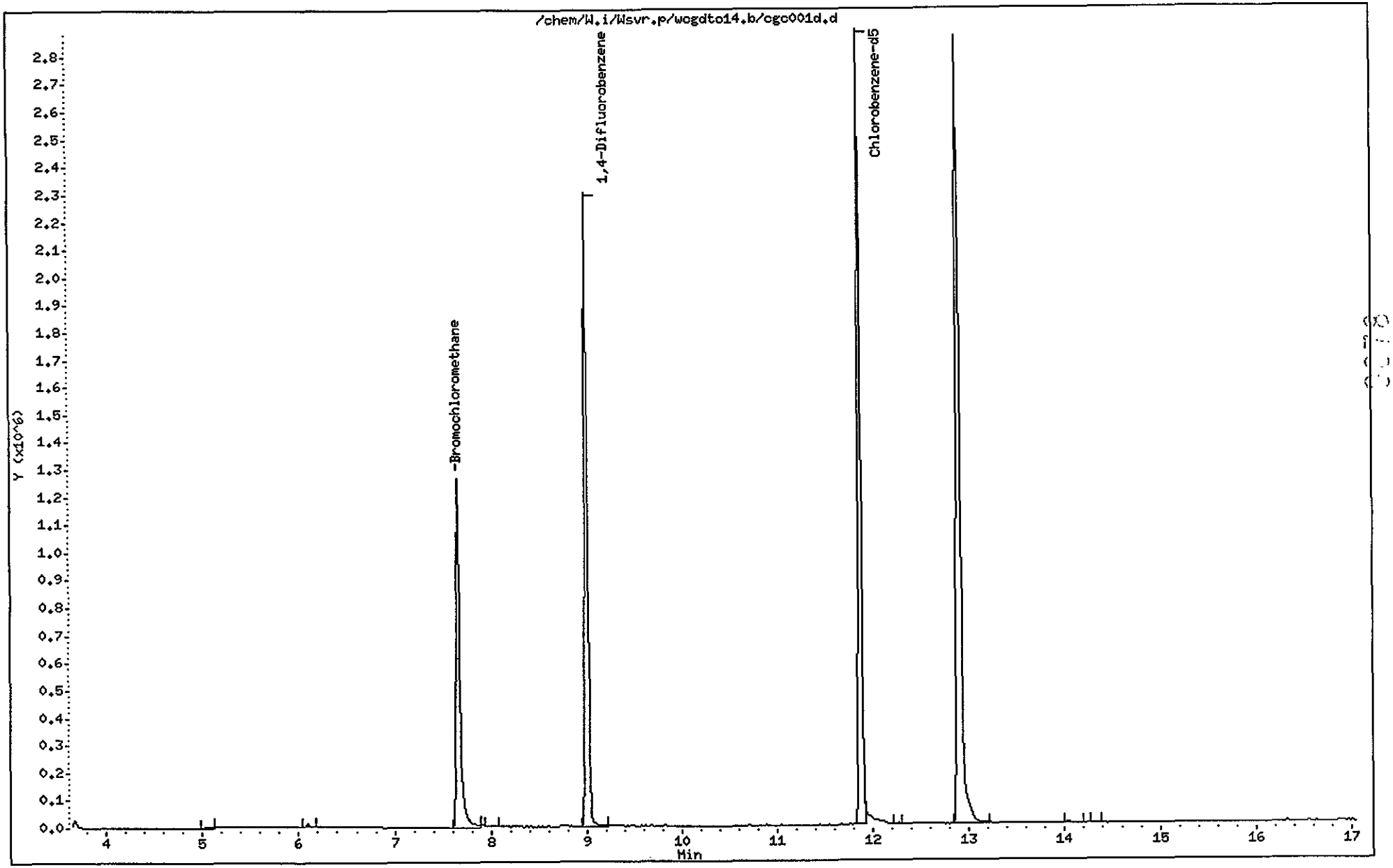
CONCENTRATION UNITS:
(ug/L or ug/Kg) ppbv

	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.					

Data File: /chem/W.i/Wsvr.p/wcgdto14.b/cgc001d.d
Date : 23-MAR-2001 11:07
Client ID: ABLKW6
Sample Info: ABLKW6;ABLKW6;;0323W6
Purge Volume: 200.0
Column phase: DB-1

Instrument: W.i

Operator: GMM
Column diameter: 0.35



STL Burlington

AIR TOXICS QUANTITATION REPORT

Data file : /chem/W.i/Wsvr.p/wcgdto14.b/cgc001d.d
Lab Smp Id: ABLKW6 Client Smp ID: ABLKW6
Inj Date : 23-MAR-2001 11:07
Operator : GMM Inst ID: W.i
Smp Info : ABLKW6;ABLKW6;;0323W6
Misc Info :
Comment :
Method : /chem/W.i/Wsvr.p/wcgdto14.b/bto14a.m
Meth Date : 27-Mar-2001 10:20 mim Quant Type: ISTD
Cal Date : 20-FEB-2001 14:27 Cal File: cg040i2.d
Als bottle: 1 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ACCANA2.sub
Target Version: 3.50
Processing Host: chemsvr4

Concentration Formula: Amt * DF * X* Uf/Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
X	200.00000	method volume factor
Uf	1.00000	ng unit correction factor
Vo	200.00000	Sample Volume purged (mL)

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	FINAL (ppbv)
2	Chloromethane	50	Compound Not Detected.					
4	Vinyl Chloride	62	Compound Not Detected.					
5	Bromomethane	94	Compound Not Detected.					
6	Chloroethane	64	Compound Not Detected.					
7	Trichlorofluoromethane	101	Compound Not Detected.					
9	Methylene Chloride	49	Compound Not Detected.					
11	1,1-Dichloroethane	63	Compound Not Detected.					
12	cis-1,2-Dichloroethene	61	Compound Not Detected.					
* 13	Bromochloromethane	128	7.667	7.666	(1.000)	443104	10.0000	
14	Chloroform	83	Compound Not Detected.					
15	1,2-Dichloroethane	62	Compound Not Detected.					
16	1,1,1-Trichloroethane	97	Compound Not Detected.					
17	Benzene	78	Compound Not Detected.					
18	Carbon Tetrachloride	117	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)
*	19 1,4-Difluorobenzene	114	9.002	8.986	(1.000)	2123677	10.0000	
	20 1,2-Dichloropropane	63	Compound Not Detected.					
	21 Trichloroethene	95	Compound Not Detected.					
	22 cis-1,3-Dichloropropene	75	Compound Not Detected.					
	23 trans-1,3-Dichloropropene	75	Compound Not Detected.					
	24 1,1,2-Trichloroethane	83	Compound Not Detected.					
	25 Toluene	92	Compound Not Detected.					
	27 Tetrachloroethene	166	Compound Not Detected.					
*	28 Chlorobenzene-d5	117	11.871	11.839	(1.000)	2113542	10.0000	
	29 Chlorobenzene	112	Compound Not Detected.					
	30 Ethylbenzene	91	Compound Not Detected.					
	31 Xylene (m,p)	106	Compound Not Detected.					
	32 Styrene	104	Compound Not Detected.					
M	33 Xylene (total)	106	Compound Not Detected.					
	34 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					
	35 Xylene (o)	106	Compound Not Detected.					
	38 1,3-Dichlorobenzene	146	Compound Not Detected.					
	39 1,4-Dichlorobenzene	146	Compound Not Detected.					
	40 1,2-Dichlorobenzene	146	Compound Not Detected.					

STL Burlington

AIR TOXICS QUANTITATION REPORT

Data file : /chem/W.i/Wsvr.p/wcgdto14.b/cgc001d.d
Lab Smp Id: ABLKW6 Client Smp ID: ABLKW6
Inj Date : 23-MAR-2001 11:07
Operator : GMM Inst ID: W.i
Smp Info : ABLKW6;ABLKW6;;0323W6
Misc Info :
Comment :
Method : /chem/W.i/Wsvr.p/wcgdto14.b/bto14a.m
Meth Date : 27-Mar-2001 10:20 mim Quant Type: ISTD
Cal Date : 20-FEB-2001 14:27 Cal File: cg040i2.d
Als bottle: 1 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ACCANA2.sub
Target Version: 3.50
Processing Host: chemsvr4

- NO TENTATIVELY IDENTIFIED COMPOUNDS -

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

S8_ICVLCS

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 82093

Matrix: (soil/water) AIR Lab Sample ID: S8_ICVLCS

Sample wt/vol: 200(g/mL) ML Lab File ID: CG010Q

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

% Moisture: not dec. _____ Date Analyzed: 02/20/01

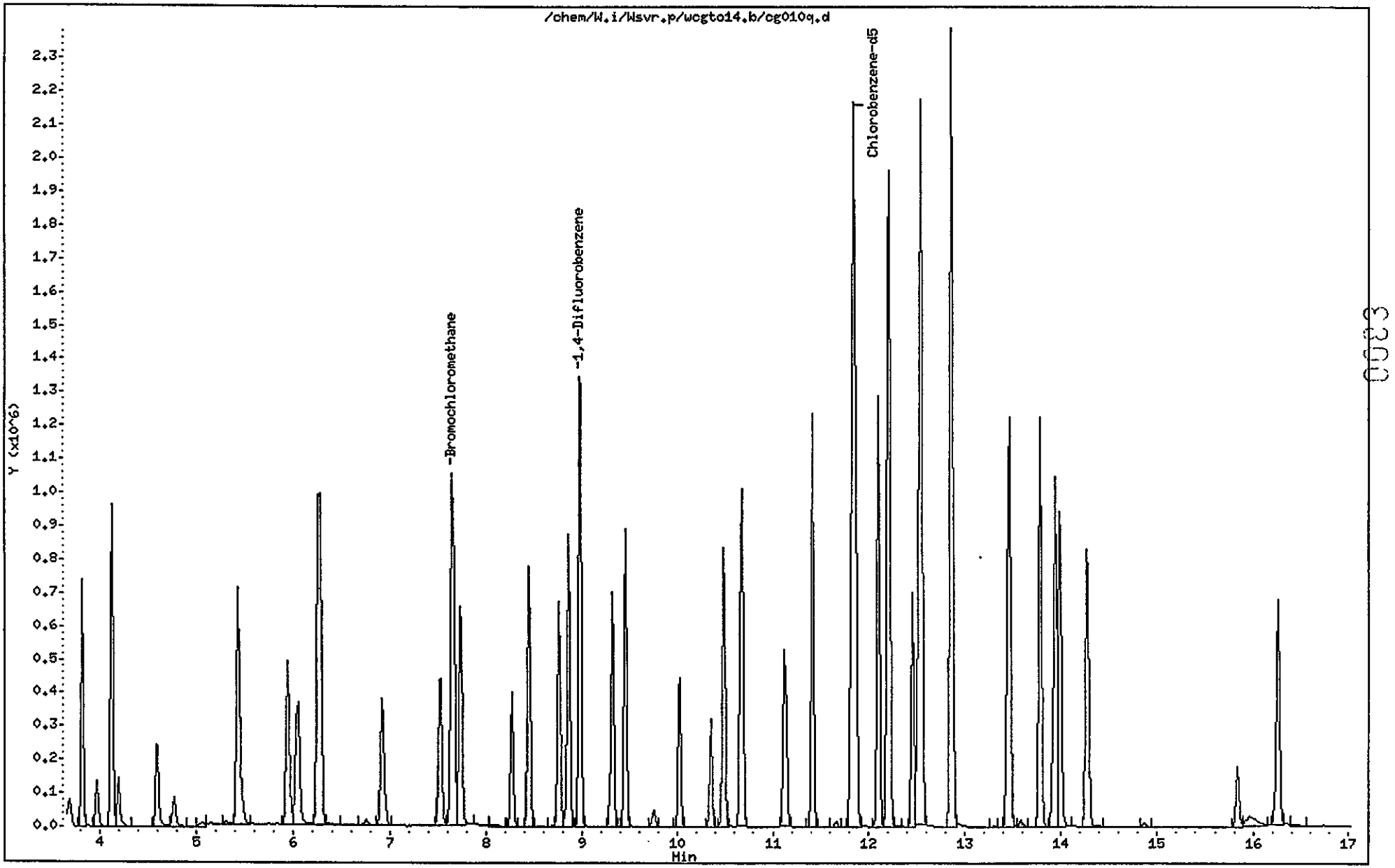
GC Column: DB-1 ID: 0.35 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) PPBV	Q
74-87-3	Chloromethane	9.0	
75-01-4	Vinyl Chloride	9.4	
74-83-9	Bromomethane	9.0	
75-00-3	Chloroethane	9.3	
75-69-4	Trichlorofluoromethane	9.7	
75-09-2	Methylene Chloride	8.4	
75-34-3	1,1-Dichloroethane	9.8	
156-59-2	cis-1,2-Dichloroethene	11	
67-66-3	Chloroform	10	
71-55-6	1,1,1-Trichloroethane	8.7	
56-23-5	Carbon Tetrachloride	10	
71-43-2	Benzene	10	
107-06-2	1,2-Dichloroethane	8.5	
79-01-6	Trichloroethene	10	
78-87-5	1,2-Dichloropropane	11	
10061-01-5	cis-1,3-Dichloropropene	11	
108-88-3	Toluene	10	
10061-02-6	trans-1,3-Dichloropropene	11	
79-00-5	1,1,2-Trichloroethane	11	
127-18-4	Tetrachloroethene	9.9	
108-90-7	Chlorobenzene	9.9	
100-41-4	Ethylbenzene	11	
1330-20-7	Xylene (total)	32	
100-42-5	Styrene	8.8	
1330-20-7	Xylene (m,p)	21	
95-47-6	Xylene (o)	10	
79-34-5	1,1,2,2-Tetrachloroethane	10	
541-73-1	1,3-Dichlorobenzene	10	
106-46-7	1,4-Dichlorobenzene	9.6	
95-50-1	1,2-Dichlorobenzene	10	

Data File: /chem/W.i/Wsvr.p/wcgto14.b/cg010q.d
Date : 20-FEB-2001 15:01
Client ID: S8_ICVLCS
Sample Info: S8_ICV;S8_ICV
Purge Volume: 200.0
Column phase: DB-1

Instrument: W.i
Operator: GMM
Column diameter: 0.35



STL Burlington

AIR TOXICS QUANTITATION REPORT

Data file : /chem/W.i/Wsvr.p/wcgto14.b/cg010q.d
Lab Smp Id: S8_ICVLCS Client Smp ID: S8_ICVLCS
Inj Date : 20-FEB-2001 15:01
Operator : GMM Inst ID: W.i
Smp Info : S8_ICV;S8_ICV
Misc Info :
Comment :
Method : /chem/W.i/Wsvr.p/wcgto14.b/bto14a.m
Meth Date : 28-Feb-2001 13:33 mim Quant Type: ISTD
Cal Date : 20-FEB-2001 14:27 Cal File: cg040i2.d
Als bottle: 1 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50
Processing Host: chemsvr4

Concentration Formula: Amt * DF * X* Uf/Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
X	200.00000	method volume factor
Uf	1.00000	ng unit correction factor
Vo	200.00000	Sample Volume purged (mL)

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	FINAL (ppbv)
1	Dichlorodifluoromethane	85	3.817	3.853	(0.499)	647985	9.59679	9.6
2	Chloromethane	50	3.975	4.011	(0.519)	140050	8.99376	9.0
3	Dichlorotetrafluoroethane	85	4.134	4.170	(0.540)	622044	9.01607	9.0
4	Vinyl Chloride	62	4.206	4.242	(0.550)	149460	9.41308	9.4
5	Bromomethane	94	4.595	4.631	(0.600)	199827	8.98516	9.0
6	Chloroethane	64	4.768	4.804	(0.623)	98616	9.33204	9.3
7	Trichlorofluoromethane	101	5.422	5.450	(0.708)	712855	9.70196	9.7
8	1,1-Dichloroethene	96	5.938	5.966	(0.776)	222688	9.24474	9.2
9	Methylene Chloride	49	6.044	6.057	(0.790)	264162	8.35945	8.4
10	Freon TF	101	6.256	6.285	(0.818)	530838	9.61466	9.6
11	1,1-Dichloroethane	63	6.924	6.953	(0.905)	442449	9.77326	9.8
12	cis-1,2-Dichloroethene	61	7.516	7.529	(0.982)	333849	10.6614	11
* 13	Bromochloromethane	128	7.653	7.666	(1.000)	319789	10.0000	
14	Chloroform	83	7.728	7.742	(1.010)	599570	10.1143	10

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)
	15 1,2-Dichloroethane	62	8.275	8.273	(1.081)	351329	8.51050	8.5
	16 1,1,1-Trichloroethane	97	8.442	8.455	(1.103)	484268	8.66271	8.7
	17 Benzene	78	8.760	8.774	(0.975)	595032	10.3830	10
	18 Carbon Tetrachloride	117	8.851	8.865	(0.985)	503042	10.4270	10
*	19 1,4-Difluorobenzene	114	8.988	8.986	(1.000)	1191164	10.0000	
	20 1,2-Dichloropropane	63	9.307	9.305	(1.035)	234341	10.9856	11
	21 Trichloroethene	95	9.458	9.457	(1.052)	297345	10.4530	10
	22 cis-1,3-Dichloropropene	75	10.020	10.018	(1.115)	282721	10.8523	11
	23 trans-1,3-Dichloropropene	75	10.354	10.352	(1.152)	184312	10.6861	11
	24 1,1,2-Trichloroethane	83	10.475	10.474	(1.165)	254109	10.8977	11
	25 Toluene	92	10.672	10.671	(0.901)	459463	10.2820	10
	26 1,2-Dibromoethane	107	11.128	11.126	(0.940)	397361	10.2339	10
	27 Tetrachloroethene	166	11.416	11.414	(0.964)	334624	9.89135	9.9
*	28 Chlorobenzene-d5	117	11.841	11.839	(1.000)	1274401	10.0000	
	29 Chlorobenzene	112	11.871	11.870	(1.003)	605330	9.91640	9.9
	30 Ethylbenzene	91	12.099	12.097	(1.022)	1096226	10.6984	11
	31 Xylene (m,p)	106	12.220	12.204	(1.032)	789272	20.7493	21
	32 Styrene	104	12.463	12.462	(1.053)	383351	8.78295	8.8
M	33 Xylene (total)	106				1181830	31.7064	32
	34 1,1,2,2-Tetrachloroethane	83	12.539	12.522	(1.059)	688595	10.3310	10
	35 Xylene (o)	106	12.539	12.537	(1.059)	392558	10.5316	10
	36 1,3,5-Trimethylbenzene	105	13.465	13.448	(1.137)	861023	10.6620	11
	37 1,2,4-Trimethylbenzene	105	13.784	13.782	(1.164)	821933	10.6696	11
	38 1,3-Dichlorobenzene	146	13.935	13.934	(1.177)	576335	10.0329	10
	39 1,4-Dichlorobenzene	146	13.996	13.979	(1.182)	579950	9.65298	9.6
	40 1,2-Dichlorobenzene	146	14.284	14.267	(1.206)	475114	10.2111	10
	41 1,2,4-Trichlorobenzene	180	15.832	15.831	(1.337)	66311	8.04990	8.0
	42 Hexachlorobutadiene	225	16.257	16.255	(1.373)	142296	8.97954	9.0

STL Burlington

RECOVERY REPORT

Client Name: Client SDG:
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: S8_ICVLCS Client Smp ID: S8_ICVLCS
Level: LOW Operator: GMM
Data Type: MS DATA SampleType: LCS
SpikeList File: all.spk Quant Type: ISTD
Sublist File: all.sub
Method File: /chem/W.i/Wsvr.p/wcgto14.b/bto14a.m
Misc Info:

SPIKE COMPOUND	CONC ADDED ppbv	CONC RECOVERED ppbv	% RECOVERED	LIMITS
1 Dichlorodifluorome	10	9.6	95.97	70-130
2 Chloromethane	10	9.0	89.94	70-130
3 Dichlorotetrafluor	10	9.0	90.16	70-130
4 Vinyl Chloride	10	9.4	94.13	70-130
5 Bromomethane	10	9.0	89.85	70-130
6 Chloroethane	10	9.3	93.32	70-130
7 Trichlorofluoromet	10	9.7	97.02	70-130
8 1,1-Dichloroethene	10	9.2	92.45	70-130
9 Methylene Chloride	10	8.4	83.59	70-130
10 Freon TF	10	9.6	96.15	70-130
11 1,1-Dichloroethane	10	9.8	97.73	70-130
12 cis-1,2-Dichloroet	10	11	106.61	70-130
14 Chloroform	10	10	101.14	70-130
15 1,2-Dichloroethane	10	8.5	85.10	70-130
16 1,1,1-Trichloroeth	10	8.7	86.63	70-130
17 Benzene	10	10	103.83	70-130
18 Carbon Tetrachlori	10	10	104.27	70-130
20 1,2-Dichloropropan	10	11	109.86	70-130
21 Trichloroethene	10	10	104.53	70-130
22 cis-1,3-Dichloropr	10	11	108.52	70-130
23 trans-1,3-Dichloro	10	11	106.86	70-130
24 1,1,2-Trichloroeth	10	11	108.98	70-130
25 Toluene	10	10	102.82	70-130
26 1,2-Dibromoethane	10	10	102.34	70-130
27 Tetrachloroethene	10	9.9	98.91	70-130
29 Chlorobenzene	10	9.9	99.16	70-130
30 Ethylbenzene	10	11	106.98	70-130
31 Xylene (m,p)	20	21	103.75	70-130
32 Styrene	10	8.8	87.83	70-130
34 1,1,2,2-Tetrachlor	10	10	103.31	70-130
35 Xylene (o)	10	10	105.32	70-130
36 1,3,5-Trimethylben	10	11	106.62	70-130
37 1,2,4-Trimethylben	10	11	106.70	70-130

SPIKE COMPOUND	CONC ADDED ppbv	CONC RECOVERED ppbv	% RECOVERED	LIMITS
38 1,3-Dichlorobenzen	10	10	100.33	70-130
39 1,4-Dichlorobenzen	10	9.6	96.53	70-130
40 1,2-Dichlorobenzen	10	10	102.11	70-130
41 1,2,4-Trichloroben	10	8.0	80.50	70-130
42 Hexachlorobutadien	10	9.0	89.80	70-130

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

W6_LCS

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 82093

Matrix: (soil/water) AIR Lab Sample ID: W6_LCS

Sample wt/vol: 200(g/mL) ML Lab File ID: CG010DQ

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

% Moisture: not dec. _____ Date Analyzed: 03/23/01

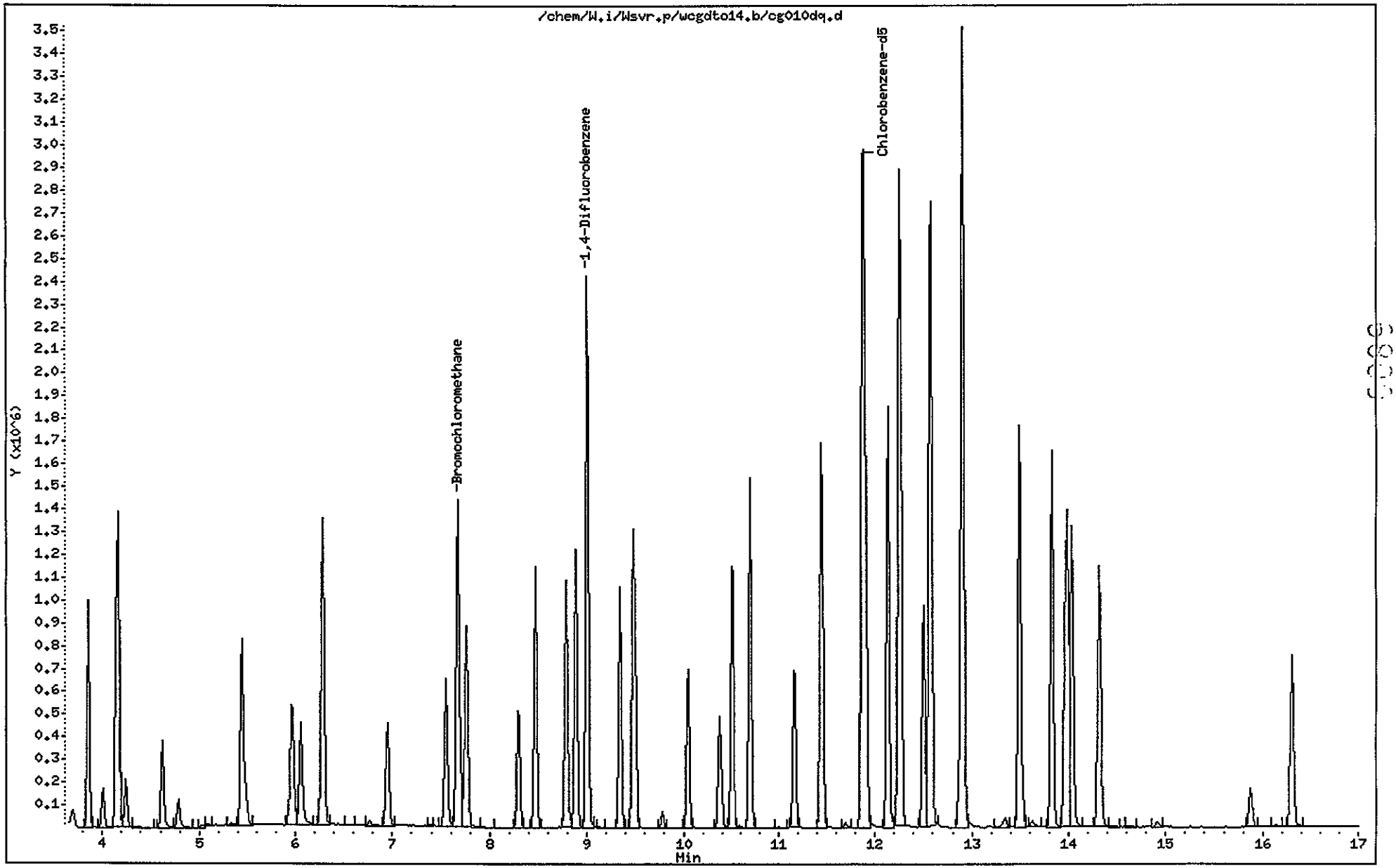
GC Column: DB-1 ID: 0.35 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) PPBV	Q
74-87-3	Chloromethane	9.7	
75-01-4	Vinyl Chloride	10	
74-83-9	Bromomethane	9.5	
75-00-3	Chloroethane	10	
75-69-4	Trichlorofluoromethane	8.2	
75-09-2	Methylene Chloride	6.8	
75-34-3	1,1-Dichloroethane	8.4	
156-59-2	cis-1,2-Dichloroethene	10	
67-66-3	Chloroform	9.2	
71-55-6	1,1,1-Trichloroethane	9.2	
56-23-5	Carbon Tetrachloride	8.6	
71-43-2	Benzene	9.7	
107-06-2	1,2-Dichloroethane	8.8	
79-01-6	Trichloroethene	9.4	
78-87-5	1,2-Dichloropropane	9.9	
10061-01-5	cis-1,3-Dichloropropene	10	
108-88-3	Toluene	9.9	
10061-02-6	trans-1,3-Dichloropropene	9.9	
79-00-5	1,1,2-Trichloroethane	9.7	
127-18-4	Tetrachloroethene	10	
108-90-7	Chlorobenzene	9.3	
100-41-4	Ethylbenzene	10	
1330-20-7	Xylene (total)	29	
100-42-5	Styrene	8.8	
1330-20-7	Xylene (m,p)	19	
95-47-6	Xylene (o)	9.4	
79-34-5	1,1,2,2-Tetrachloroethane	8.7	
541-73-1	1,3-Dichlorobenzene	9.1	
106-46-7	1,4-Dichlorobenzene	7.9	
95-50-1	1,2-Dichlorobenzene	8.6	

Data File: /chem/W.i/Wsvr.p/wcgdto14.b/cg010dq.d
Date : 23-MAR-2001 10:04
Client ID: W6_LCS
Sample Info: W6_LCS;W6_LCS
Purge Volume: 200.0
Column phase: DB-1

Instrument: W.i
Operator: GMH
Column diameter: 0.35



STL Burlington

AIR TOXICS QUANTITATION REPORT

Data file : /chem/W.i/Wsvr.p/wcgdto14.b/cg010dq.d
Lab Smp Id: W6_LCS Client Smp ID: W6_LCS
Inj Date : 23-MAR-2001 10:04
Operator : GMM Inst ID: W.i
Smp Info : W6_LCS;W6_LCS
Misc Info :
Comment :
Method : /chem/W.i/Wsvr.p/wcgdto14.b/bto14a.m
Meth Date : 27-Mar-2001 10:20 mim Quant Type: ISTD
Cal Date : 20-FEB-2001 14:27 Cal File: cg040i2.d
Als bottle: 1 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ACCANA2.sub
Target Version: 3.50
Processing Host: chemsvr4

Concentration Formula: Amt * DF * X* Uf/Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
X	200.00000	method volume factor
Uf	1.00000	ng unit correction factor
Vo	200.00000	Sample Volume purged (mL)

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	FINAL (ppbv)
2	Chloromethane	50	4.015	4.011	(0.523)	211027	9.66722	9.7
4	Vinyl Chloride	62	4.231	4.242	(0.551)	226767	10.1881	10
5	Bromomethane	94	4.620	4.631	(0.601)	295329	9.47291	9.5
6	Chloroethane	64	4.793	4.804	(0.624)	148176	10.0026	10
7	Trichlorofluoromethane	101	5.451	5.450	(0.710)	849688	8.24941	8.2
9	Methylene Chloride	49	6.058	6.057	(0.789)	302872	6.83710	6.8(R)
11	1,1-Dichloroethane	63	6.953	6.953	(0.905)	532995	8.39856	8.4
12	cis-1,2-Dichloroethene	61	7.545	7.529	(0.982)	449192	10.2330	10
* 13	Bromochloromethane	128	7.681	7.666	(1.000)	448289	10.0000	(Q)
14	Chloroform	83	7.757	7.742	(1.010)	760966	9.15730	9.2
15	1,2-Dichloroethane	62	8.288	8.273	(1.079)	507992	8.77816	8.8
16	1,1,1-Trichloroethane	97	8.471	8.455	(1.103)	719732	9.18426	9.2
17	Benzene	78	8.789	8.774	(0.976)	984525	9.74443	9.7
18	Carbon Tetrachloride	117	8.880	8.865	(0.986)	736052	8.65387	8.6

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)
*	19 1,4-Difluorobenzene	114	9.002	8.986	(1.000)	2100019	10.0000	
	20 1,2-Dichloropropane	63	9.336	9.305	(1.037)	372548	9.90618	9.9
	21 Trichloroethene	95	9.487	9.457	(1.054)	473382	9.43935	9.4
	22 cis-1,3-Dichloropropene	75	10.049	10.018	(1.116)	475349	10.3497	10
	23 trans-1,3-Dichloropropene	75	10.383	10.352	(1.153)	301830	9.92600	9.9
	24 1,1,2-Trichloroethane	83	10.504	10.474	(1.167)	400514	9.74269	9.7
	25 Toluene	92	10.701	10.671	(0.902)	740452	9.87388	9.9
	27 Tetrachloroethene	166	11.460	11.414	(0.965)	574772	10.1242	10
*	28 Chlorobenzene-d5	117	11.870	11.839	(1.000)	2138653	10.0000	
	29 Chlorobenzene	112	11.915	11.870	(1.004)	949215	9.26600	9.3
	30 Ethylbenzene	91	12.143	12.097	(1.023)	1714613	9.97132	10
	31 Xylene (m,p)	106	12.249	12.204	(1.032)	1211933	18.9855	19
	32 Styrene	104	12.507	12.462	(1.054)	644930	8.80485	8.8
M	33 Xylene (total)	106				1803131	28.8260	29
	34 1,1,2,2-Tetrachloroethane	83	12.568	12.522	(1.059)	973801	8.70589	8.7
	35 Xylene (o)	106	12.583	12.537	(1.060)	591198	9.45128	9.4
	38 1,3-Dichlorobenzene	146	13.979	13.934	(1.178)	878143	9.10920	9.1
	39 1,4-Dichlorobenzene	146	14.025	13.979	(1.182)	796584	7.90075	7.9
	40 1,2-Dichlorobenzene	146	14.313	14.267	(1.206)	670054	8.58126	8.6

QC Flag Legend

Q - Qualifier signal failed the ratio test.
R - Spike/Surrogate failed recovery limits.

STL Burlington

RECOVERY REPORT

Client Name: Client SDG:
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: W6_LCS Client Smp ID: W6_LCS
Level: LOW Operator: GMM
Data Type: MS DATA SampleType: LCS
SpikeList File: ACCANA2.spk Quant Type: ISTD
Sublist File: ACCANA2.sub
Method File: /chem/W.i/Wsvr.p/wcgdto14.b/bto14a.m
Misc Info:

SPIKE COMPOUND	CONC ADDED ppbv	CONC RECOVERED ppbv	% RECOVERED	LIMITS
2 Chloromethane	10	9.7	96.67	70-130
4 Vinyl Chloride	10	10	101.88	70-130
5 Bromomethane	10	9.5	94.73	70-130
6 Chloroethane	10	10	100.03	70-130
7 Trichlorofluoromet	10	8.2	82.49	70-130
9 Methylene Chloride	10	6.8	68.37*	70-130
11 1,1-Dichloroethane	10	8.4	83.99	70-130
12 cis-1,2-Dichloroet	10	10	102.33	70-130
14 Chloroform	10	9.2	91.57	70-130
15 1,2-Dichloroethane	10	8.8	87.78	70-130
16 1,1,1-Trichloroeth	10	9.2	91.84	70-130
17 Benzene	10	9.7	97.44	70-130
18 Carbon Tetrachlori	10	8.6	86.54	70-130
20 1,2-Dichloropropan	10	9.9	99.06	70-130
21 Trichloroethene	10	9.4	94.39	70-130
22 cis-1,3-Dichloropr	10	10	103.50	70-130
23 trans-1,3-Dichloro	10	9.9	99.26	70-130
24 1,1,2-Trichloroeth	10	9.7	97.43	70-130
25 Toluene	10	9.9	98.74	70-130
27 Tetrachloroethene	10	10	101.24	70-130
29 Chlorobenzene	10	9.3	92.66	70-130
30 Ethylbenzene	10	10	99.71	70-130
31 Xylene (m,p)	20	19	94.93	70-130
32 Styrene	10	8.8	88.05	70-130
34 1,1,2,2-Tetrachlor	10	8.7	87.06	70-130
35 Xylene (o)	10	9.4	94.51	70-130
38 1,3-Dichlorobenzen	10	9.1	91.09	70-130
39 1,4-Dichlorobenzen	10	7.9	79.01	70-130
40 1,2-Dichlorobenzen	10	8.6	85.81	70-130

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

W6_LCSD

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 82093

Matrix: (soil/water) AIR Lab Sample ID: W6_LCSD

Sample wt/vol: 200(g/mL) ML Lab File ID: CG010DQD

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

% Moisture: not dec. _____ Date Analyzed: 03/23/01

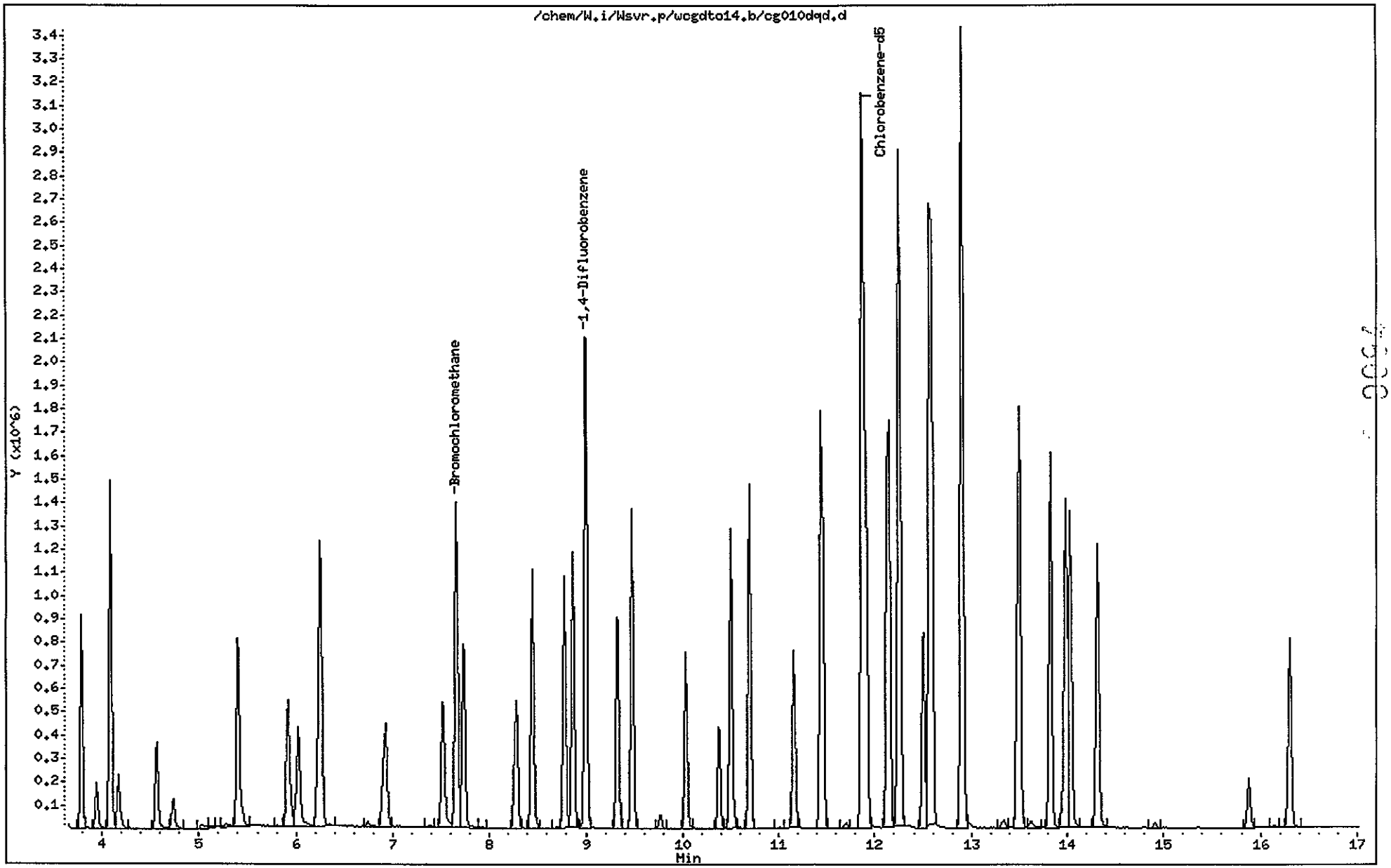
GC Column: DB-1 ID: 0.35 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) PPBV	Q
74-87-3	Chloromethane	10	
75-01-4	Vinyl Chloride	10	
74-83-9	Bromomethane	9.6	
75-00-3	Chloroethane	9.1	
75-69-4	Trichlorofluoromethane	8.0	
75-09-2	Methylene Chloride	6.9	
75-34-3	1,1-Dichloroethane	8.3	
156-59-2	cis-1,2-Dichloroethene	9.0	
67-66-3	Chloroform	8.8	
71-55-6	1,1,1-Trichloroethane	8.9	
56-23-5	Carbon Tetrachloride	8.6	
71-43-2	Benzene	9.8	
107-06-2	1,2-Dichloroethane	8.5	
79-01-6	Trichloroethene	9.5	
78-87-5	1,2-Dichloropropane	9.9	
10061-01-5	cis-1,3-Dichloropropene	10	
108-88-3	Toluene	9.9	
10061-02-6	trans-1,3-Dichloropropene	10	
79-00-5	1,1,2-Trichloroethane	9.7	
127-18-4	Tetrachloroethene	10	
108-90-7	Chlorobenzene	9.3	
100-41-4	Ethylbenzene	10	
1330-20-7	Xylene (total)	29	
100-42-5	Styrene	8.0	
1330-20-7	Xylene (m,p)	19	
95-47-6	Xylene (o)	9.4	
79-34-5	1,1,2,2-Tetrachloroethane	8.9	
541-73-1	1,3-Dichlorobenzene	9.5	
106-46-7	1,4-Dichlorobenzene	8.1	
95-50-1	1,2-Dichlorobenzene	9.0	

Data File: /chem/W.i/Wsvr.p/wcgdto14.b/cg010dqd.d
Date : 23-MAR-2001 10:37
Client ID: W6_LCSD
Sample Info: W6_LCSD;W6_LCSD
Purge Volume: 200.0
Column phase: DB-1

Instrument: W.i
Operator: GHM
Column diameter: 0.35



STL Burlington

AIR TOXICS QUANTITATION REPORT

Data file : /chem/W.i/Wsvr.p/wcgdto14.b/cg010dqd.d
Lab Smp Id: W6_LCSD Client Smp ID: W6_LCSD
Inj Date : 23-MAR-2001 10:37
Operator : GMM Inst ID: W.i
Smp Info : W6_LCSD;W6_LCSD
Misc Info :
Comment :
Method : /chem/W.i/Wsvr.p/wcgdto14.b/bto14a.m
Meth Date : 27-Mar-2001 10:20 mim Quant Type: ISTD
Cal Date : 20-FEB-2001 14:27 Cal File: cg040i2.d
Als bottle: 1 QC Sample: LCSD
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ACCANA2.sub
Target Version: 3.50
Processing Host: chemsvr4

Concentration Formula: Amt * DF * X* Uf/Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
X	200.00000	method volume factor
Uf	1.00000	ng unit correction factor
Vo	200.00000	Sample Volume purged (mL)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	FINAL (ppbv)
2 Chloromethane	50	3.946	4.011	(0.516)	232267	10.5204	10
4 Vinyl Chloride	62	4.177	4.242	(0.546)	238391	10.5897	10
5 Bromomethane	94	4.566	4.631	(0.597)	302658	9.59866	9.6
6 Chloroethane	64	4.739	4.804	(0.619)	136105	9.08427	9.1(M)
7 Trichlorofluoromethane	101	5.391	5.450	(0.704)	838272	8.04692	8.0
9 Methylene Chloride	49	6.013	6.057	(0.786)	309205	6.90145	6.9(R)
11 1,1-Dichloroethane	63	6.924	6.953	(0.905)	530757	8.26911	8.3
12 cis-1,2-Dichloroethene	61	7.516	7.529	(0.982)	399954	9.00870	9.0
* 13 Bromochloromethane	128	7.652	7.666	(1.000)	453395	10.0000	
14 Chloroform	83	7.728	7.742	(1.010)	743528	8.84669	8.8
15 1,2-Dichloroethane	62	8.274	8.273	(1.081)	498875	8.52353	8.5
16 1,1,1-Trichloroethane	97	8.456	8.455	(1.105)	705489	8.90113	8.9
17 Benzene	78	8.775	8.774	(0.975)	974682	9.80101	9.8
18 Carbon Tetrachloride	117	8.866	8.865	(0.985)	723925	8.64716	8.6

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	FINAL (ppbv)
*	19 1,4-Difluorobenzene	114	9.003	8.986	(1.000)	2067022	10.0000	
	20 1,2-Dichloropropane	63	9.337	9.305	(1.037)	366704	9.90644	9.9
	21 Trichloroethene	95	9.473	9.457	(1.052)	471050	9.54279	9.5
	22 cis-1,3-Dichloropropene	75	10.035	10.018	(1.115)	472168	10.4445	10
	23 trans-1,3-Dichloropropene	75	10.384	10.352	(1.153)	302284	10.0996	10
	24 1,1,2-Trichloroethane	83	10.505	10.474	(1.167)	391916	9.68573	9.7
	25 Toluene	92	10.702	10.671	(0.902)	734546	9.87209	9.9
	27 Tetrachloroethene	166	11.446	11.414	(0.964)	567227	10.0698	10
*	28 Chlorobenzene-d5	117	11.871	11.839	(1.000)	2121979	10.0000	
	29 Chlorobenzene	112	11.901	11.870	(1.003)	944720	9.29458	9.3
	30 Ethylbenzene	91	12.144	12.097	(1.023)	1712293	10.0361	10
	31 Xylene (m,p)	106	12.250	12.204	(1.032)	1202745	18.9896	19
	32 Styrene	104	12.508	12.462	(1.054)	583832	8.03335	8.0
M	33 Xylene (total)	106				1788114	28.8106	29
	34 1,1,2,2-Tetrachloroethane	83	12.569	12.522	(1.059)	987999	8.90222	8.9
	35 Xylene (o)	106	12.584	12.537	(1.060)	585369	9.43163	9.4
	38 1,3-Dichlorobenzene	146	13.980	13.934	(1.178)	911034	9.52465	9.5
	39 1,4-Dichlorobenzene	146	14.026	13.979	(1.182)	806372	8.06068	8.1
	40 1,2-Dichlorobenzene	146	14.314	14.267	(1.206)	693837	8.95567	9.0

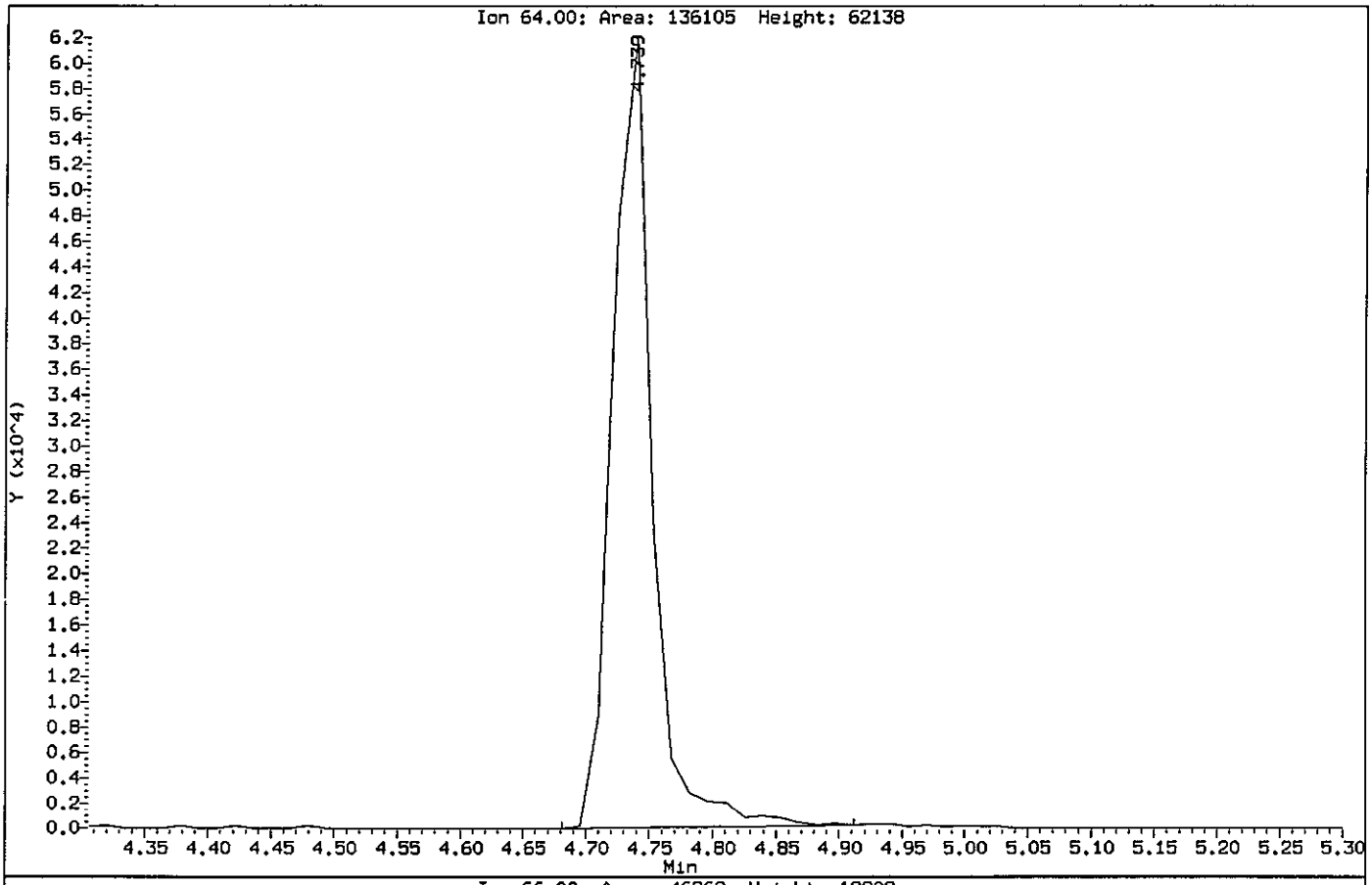
QC Flag Legend

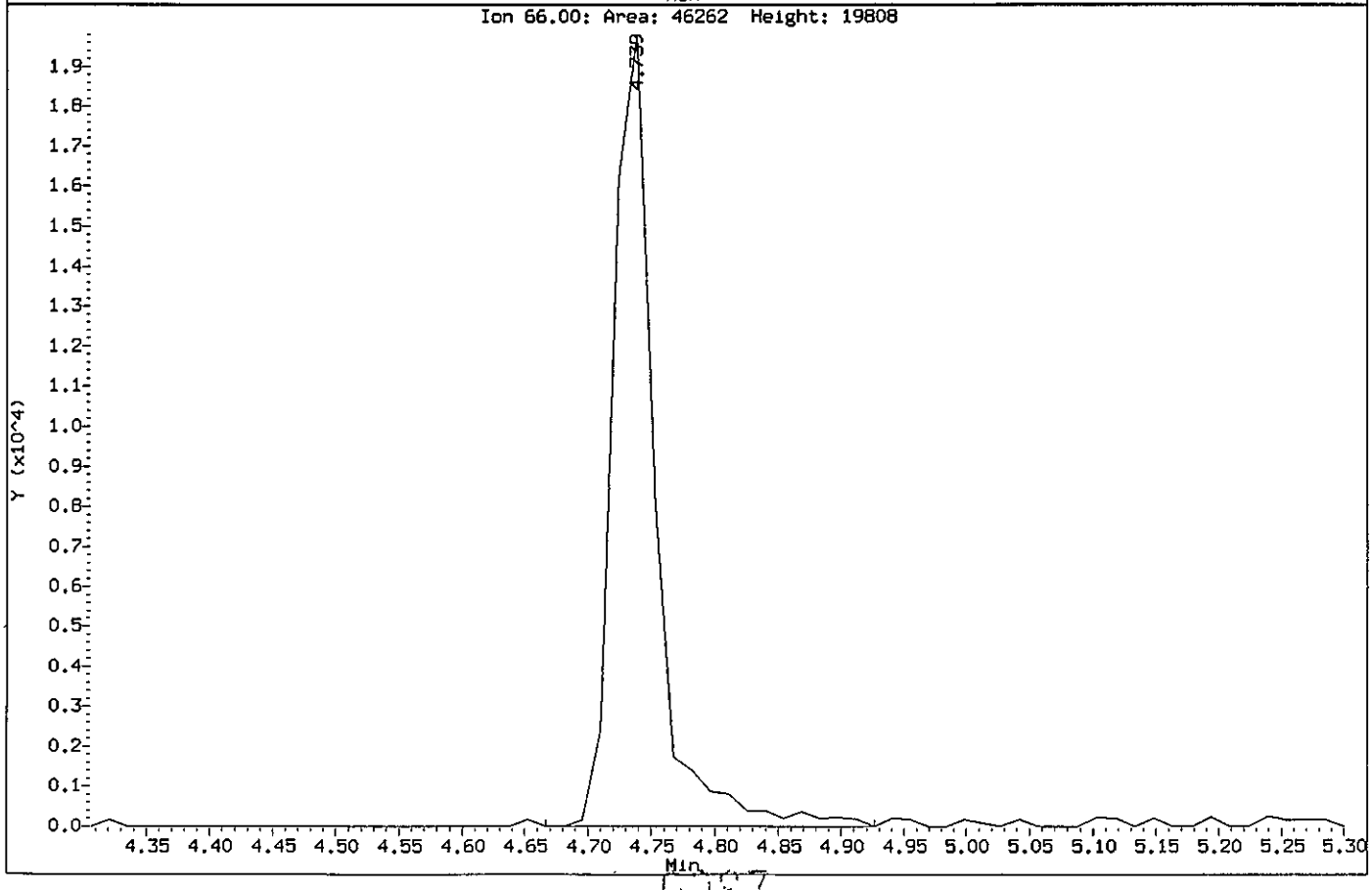
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

MWM 3/27/01

Data File: /chem/W.i/Wsvr.p/wcgdto14.b/cg010dqd.d
Injection Date: 23-MAR-2001 10:37
Instrument: W.i
Client Sample ID: W6_LCSD

Compound: Chloroethane
CAS Number: 75-00-3





STL Burlington

RECOVERY REPORT

Client Name: Client SDG:
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: W6_LCSD Client Smp ID: W6_LCSD
Level: LOW Operator: GMM
Data Type: MS DATA SampleType: LCSD
SpikeList File: ACCANA2.spk Quant Type: ISTD
Sublist File: ACCANA2.sub
Method File: /chem/W.i/Wsvr.p/wcgdto14.b/bto14a.m
Misc Info:

SPIKE	COMPOUND	CONC ADDED ppbv	CONC RECOVERED ppbv	% RECOVERED	LIMITS
2	Chloromethane	10	10	105.20	70-130
4	Vinyl Chloride	10	10	105.90	70-130
5	Bromomethane	10	9.6	95.99	70-130
6	Chloroethane	10	9.1	90.84	70-130
7	Trichlorofluoromet	10	8.0	80.47	70-130
9	Methylene Chloride	10	6.9	69.01*	70-130
11	1,1-Dichloroethane	10	8.3	82.69	70-130
12	cis-1,2-Dichloroet	10	9.0	90.09	70-130
14	Chloroform	10	8.8	88.47	70-130
15	1,2-Dichloroethane	10	8.5	85.24	70-130
16	1,1,1-Trichloroeth	10	8.9	89.01	70-130
17	Benzene	10	9.8	98.01	70-130
18	Carbon Tetrachlori	10	8.6	86.47	70-130
20	1,2-Dichloropropan	10	9.9	99.06	70-130
21	Trichloroethene	10	9.5	95.43	70-130
22	cis-1,3-Dichloropr	10	10	104.45	70-130
23	trans-1,3-Dichloro	10	10	101.00	70-130
24	1,1,2-Trichloroeth	10	9.7	96.86	70-130
25	Toluene	10	9.9	98.72	70-130
27	Tetrachloroethene	10	10	100.70	70-130
29	Chlorobenzene	10	9.3	92.95	70-130
30	Ethylbenzene	10	10	100.36	70-130
31	Xylene (m,p)	20	19	94.95	70-130
32	Styrene	10	8.0	80.33	70-130
34	1,1,2,2-Tetrachlor	10	8.9	89.02	70-130
35	Xylene (o)	10	9.4	94.32	70-130
38	1,3-Dichlorobenzen	10	9.5	95.25	70-130
39	1,4-Dichlorobenzen	10	8.1	80.61	70-130
40	1,2-Dichlorobenzen	10	9.0	89.56	70-130

SEVERN TRENT SERVICES

Severn Trent Laboratories, Inc.

SAMPLE PREPARATION

Severn Trent Laboratories-VT
Instrument Run Log
Instrument W

Batch: WG9101H
Opened: 2 / 20 / 01 **Time:** 1005
Closed: 2 / 21 / 01 **Time:** 1005

ETR #	SDG #
81786	81786
81805	

Tune: J 2121
ISTD Tag # 01-1388

Temp: 19.5 °C B.P. 29.7 "Hg

INJ. TIME	LAB ID	CAN ID #	CLIENT ID	ETR #	INLET #	SAMPLE VOLUME (mL)	DILUTION FACTOR	ISTD RECOVERY	CONC	ANALYST	COMMENTS
1005	cg0001P	n/a	WBFB0001	n/a	n/a	n/a	n/a	n/a	✓	GMM	
1025	cg0005	6080	ASTD0005		3	20		✓	✓		AT12150003
1057	cg005	6156	005		4	25		✓	✓		AT02160101
1129	cg010		010			~~100~~ 50		✓	✓		
1203	cg020		020			200		✓	✓		
1238	cg040		040			200		✓	✓		
1317	cg005i2		005			25		✓	✓		
1351	cg005i2	6080	005		3	20		✓	✓		
1427	cg040i2	6156	040		4	200		✓	✓		
1501	cg010	6006	SY-ICV		5			✓	✓		AT02010103
1606	cgbool	n10	ABLKS8		1			✓	✓		
1714	445316	6041	-1IA-	81786	2	200	1.1	✓	✓		
1751	445317	6044	-2IA-		3			✓	✓		C
1828	445472	6005	H-19	81805	4			✓	✓		C
1904	445473	6103	D-19		5			✓	✓		C
1940	445474	6056	K-16		6			✓	✓		C
2016	445475	6171	G-11		7			✓	✓		C
2056	445476	6141	M-20		8			✓	✓		C

Severn Trent Laboratories-VT
Instrument Run Log
Instrument W

Batch: WG70014
Opened: 2/20/01 **Time:** 1005
Closed: 2/21/01 **Time:** 1005

ETR # 81805, 81816
SDG # A7028

Tune: ✓
ISTD Tag #: 01-1388

Temp: 195 °C B.P.: 29.71 "Hg

INJ. TIME	LAB ID	CAN ID #	CLIENT ID	ETR #	INLET #	SAMPLE VOLUME (mL)	DILUTION FACTOR	ISTD RECOVERY	CONC	ANALYST	COMMENTS
2128	445477	6122	Trip Blank	81805	9	200	1:1	✓	✓	GMM	C
2203	445478	6135	E-17		10			✓	✓		C
2240	445479	6118	P-10		11			✓	✓		C
2314	445480	6124	V-4		12			✓	✓		C
2347	445481	6016	WH-1		13			✓	✓		C
0024	445482	6052	WH-2		14			✓	✓		C
0059	445573	6158	Effluent	81816	15			✓	✓		C
0713	445816d2	6041	-IIA-	81786	2	18	11.1	✓	✓		C
0748	445574d	Bag	Influent	81816	3	100	1:20, 2.56 102.4	✓	✓		C

Severn Trent Laboratories-VT
Instrument Run Log
Instrument W

Batch: wcgd1c15
Opened: 3 / 23 / 01 **Time:** 0910
Closed: 3 / 24 / 01 **Time:** 0910

ETR #	SDG #
82093	82093
82174	82174

Tune: ✓
ISTD Tag #: 01-1332

Temp: 19.5 °C B.P.: 29.50 "Hg

INJ TIME	LAB ID	CAN ID #	CLIENT ID	ETR #	INLET #	SAMPLE VOLUME (mL)	DILUTION FACTOR	ISTD RECOVERY	CONC.	ANALYST	COMMENTS
0910	cgco5p	n/a	WBF B005	n/a	n/a	n/a	n/a	n/a	✓	GMM	
0931	cgo1cd	0156	ASTDC1C		5	50		✓	✓		ATC2cuC101
1004	cgo10dq	6000	W6-LCS		6	200		✓	✓		ATC201C103
1037	cgo10dqa	↓	W6-LCSD		6	200		✓	✓		
1107	cgbcold	n/a	ABLKW6		1	200	↓	✓	✓		
1156	447347	6112	-SVEEA-	82093	2	200	1.1	✓	✓		C
1234	447128	6145	-SVE062-	82174	3	200	↓	✓	↑		
1352	447128dl2	↓	↓	↓	3	75	2.7	✓	✓	↓	C

SEVERN TRENT SERVICES

Severn Trent Laboratories, Inc.

SAMPLE HANDLING

PLEASE FOLD THIS SHIPPING DOCUMENT IN HALF AND PLACE IT IN A WAYBILL POUCH AFFIXED TO YOUR SHIPMENT SO THAT THE BAR-CODE PORTION OF THE LABEL CAN BE READ AND SCANNED.
*****WARNING: USE ONLY THE PRINTED ORIGINAL LABEL FOR SHIPPING. USING A PHOTOCOPY OF THIS LABEL FOR SHIPPING PURPOSES IS FRAUDULENT AND COULD RESULT IN ADDITIONAL BILLING CHARGES, ALONG WITH THE CANCELLATION OF YOUR FEDEX ACCOUNT NUMBER.**

FROM: Randy Dumaop (904)777-4812
J.A. Jones Environmental Servic
6219 Authority Ave.

Jacksonville, FL 32221

SHIPPER'S FEDEX ACCOUNT NUMBER

FedEx
Federal Express

TO: Ron Pentkowski (802)655-1203
Severn Trent Laboratories
208 South Park Drive
Suite 1

Colchester, VT 05446-

SHIP DATE: 13MAR01
MAN-WGT: 8 LBS

REF: 154282.99.22.01.01/30857

DELIVERY ADDRESS BARCODE (FEDEX-EDR)

CAD # 4553313 **** 2DAY ****

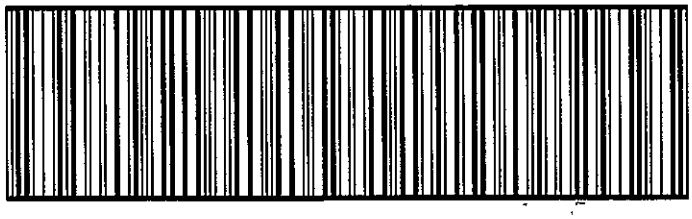
THU
AA

TRK # **7904 9432 8172** FORM 0201

Deliver By:
BTV 15MAR01

05446-VT-US

KF BTVA



SEVERN TRENT LABORATORIES LOG-IN SHEET - Form DC-1

Lab Name: Severn Trent Laboratories - VT

Page 1 of 1

Received By (Print Name): Jeremy Sink

Log-in Date: 3/15/01

Received By (Signature): Jeremy Sink

Case Number: 20031

Sample Delivery Group No: 82093

ETR Number: 82093

REMARKS:

1. **Custody Seal** ~~Present/Absent*~~ ~~Intact/Broken~~
2. **Custody Seal Nos.:** N/A
3. **Chain-of-Custody Records** ~~Present/Absent*~~
4. **Sample Information Sheets** ~~Present/Absent*~~
5. **Airbill** ~~Airbill/Sticker~~ ~~Present/Absent*~~
6. **Airbill No.:** 790494328172
7. **Sample Tags** ~~Present/Absent*~~ **Sample Tag Numbers** ~~Listed/Not Listed on Chain-of-Custody~~
8. **Sample Condition:** ~~Intact/Broken*~~ ~~Leaking~~
9. **Does information on the custody records, sample information sheets, sample tags and labels agree?** ~~Yes/No*~~
10. **Date Received at Lab:** 3/15/01
11. **Time Received:** 0930
12. **Cooler Temperature:** Box

Sample Transfer

Fraction: All

Area #: ~~Level 4/6~~ Air lab

By: JES

On: 3/15/01

CORRESPONDING

CLIENT SAMPLE #	SAMPLE TAG #	ASSIGNED LAB #	REMARKS: CONDITION OF SAMPLE SHIPMENT, ETC.
029 SVEEA03120110	N/A	447347	Were air bubbles present in any VOA vials? N/A Sample rec'd intact w/out custody seals.
		JES	3/15/01

* Contact Project Director

Reviewed by: [signature] 3/16/01

Date:

Logbook No.:

Logbook Page No.:

SEVERN TRENT LABORATORIES - VT

SM.0012A.111698

** COOLER RECEIPT CHECKLIST **

WERE CUSTODY SEALS PRESENT ON THE COOLERS?

YES (NO)

IF SO, WERE THERE CUSTODY SEAL NUMBERS?

YES (NO)

LIST THE CUSTODY SEAL NUMBERS. ——— ———

WHAT TYPE OF COOLING WAS UTILIZED?

ICE MELTED ICE PACKS (NONE)

COOLER TEMPERATURE (degrees c): NA.

DATE AND TIME COOLER RECEIVED: 3-15-01 0930

DO SAMPLES APPEAR TO BE INTACT: (YES) NO

DO ANY SAMPLES HAVE SHORT HOLDING TIMES?
(less than seven days)

WET CHEM	YES	(NO)
EXTRACTABLES	YES	(NO)
UNPRES VOA	YES	(NO)

RADIATION SCREEN RESULTS <0.05 MR/HR (YES) NO

SEVERN TRENT SERVICES

Severn Trent Laboratories, Inc.

SAMPLE DATA SUMMARY PACKAGE

SDG NO: 82724

AAL# 27928

SEVERN TRENT SERVICES

STL Burlington
208 South Park Drive
Suite 1
Colchester, VT 05446

Tel: 802 655 1203
Fax: 802 655 1248
www.stl-inc.com

May 15, 2001

Ms. Bonnie Hogue
Accura Analytical Laboratories
6017 Financial Drive
Norcross, GA 30071

Re: Laboratory Project No. 20031
Case: 20031; SDG: 82724

Dear Ms. Hogue:

Enclosed are the analytical results of samples received intact by Severn Trent Laboratories on April 30, 2001. Laboratory numbers have been assigned and designated as follows:

Lab ID	Client Sample ID	Sample Date	Sample Matrix
	Received: 04/30/01	ETR No: 82724	
451721	029SVEEA04260111	04/26/01	Air

Method TO-14A Modified-Volatile Organics;
Please note that due to a limitation of characters inherent in the reporting software, some characters of the client identification above were truncated.

The volatile organic analyses of the Independent Calibration Verification sample C2_ICVLCS and duplicate sample exhibited a percent recoveries of the target compound Tetrachloroethene that were above control criteria. This exceedence is identified on the associated Form IIIs.

Please note that client specific matrix spike/matrix spike duplicate samples were not performed, nor requested with this sample delivery group.

If there are any questions regarding this submittal, please contact Ron Pentkowski at (802) 655-1203.

This report shall not be reproduced, except in full, without the written approval of the laboratory. This report is sequentially numbered starting with page 0001 and ending with page 91.

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SEVERN TRENT SERVICES

STL Burlington

I certify that this package is in compliance with the NELAC requirements, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Director or his designee, as verified by the following signature.

Sincerely,

Christopher A. Ouellette
Laboratory Director

RAP/kag
Enclosure

CO1-B last alpha

SEVERN

TRENT

SERVICES

Severn Trent Laboratories, Inc.

SAMPLE DATA SUMMARY PACKAGE

FOR TO-14A

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

C2_ICVLCSD

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 82724

Matrix: (soil/water) AIR Lab Sample ID: C2_ICVLCSD

Sample wt/vol: 200(g/mL) ML Lab File ID: CK010QD

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

% Moisture: not dec. _____ Date Analyzed: 05/08/01

GC Column: DB-1 ID: 0.35 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) PPBV	Q
74-87-3	Chloromethane	9.6	
75-01-4	Vinyl Chloride	9.1	
74-83-9	Bromomethane	9.6	
75-00-3	Chloroethane	9.3	
75-69-4	Trichlorofluoromethane	10	
75-09-2	Methylene Chloride	9.0	
75-34-3	1,1-Dichloroethane	9.6	
156-59-2	cis-1,2-Dichloroethene	9.9	
67-66-3	Chloroform	10	
71-55-6	1,1,1-Trichloroethane	10	
56-23-5	Carbon Tetrachloride	10	
71-43-2	Benzene	9.9	
107-06-2	1,2-Dichloroethane	10	
79-01-6	Trichloroethene	10	
78-87-5	1,2-Dichloropropane	9.9	
10061-01-5	cis-1,3-Dichloropropene	9.3	
108-88-3	Toluene	9.9	
10061-02-6	trans-1,3-Dichloropropene	8.9	
79-00-5	1,1,2-Trichloroethane	9.8	
127-18-4	Tetrachloroethene	14	
108-90-7	Chlorobenzene	10	
100-41-4	Ethylbenzene	12	
1330-20-7	Xylene (total)	30	
100-42-5	Styrene	10	
1330-20-7	Xylene (m,p)	21	
95-47-6	Xylene (o)	8.6	
79-34-5	1,1,2,2-Tetrachloroethane	9.7	
541-73-1	1,3-Dichlorobenzene	10	
106-46-7	1,4-Dichlorobenzene	8.3	
95-50-1	1,2-Dichlorobenzene	9.2	

FORM 3
AIR VOLATILE LAB CONTROL SAMPLE

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 82724

Matrix Spike - Sample No.: C2_ICVLCS

COMPOUND	SPIKE ADDED (ppbv)	SAMPLE CONCENTRATION (ug/L)	LCS CONCENTRATION (ppbv)	LCS % REC #	QC. LIMITS REC.
Chloromethane	10		9.8	98	70-130
Vinyl Chloride	10		9.4	94	70-130
Bromomethane	10		9.7	97	70-130
Chloroethane	10		10	100	70-130
Trichlorofluoromethane	10		10	100	70-130
Methylene Chloride	10		9.1	91	70-130
1,1-Dichloroethane	10		9.9	99	70-130
cis-1,2-Dichloroethene	10		9.7	97	70-130
Chloroform	10		10	100	70-130
1,1,1-Trichloroethane	10		10	100	70-130
Carbon Tetrachloride	10		10	100	70-130
Benzene	10		9.8	98	70-130
1,2-Dichloroethane	10		10	100	70-130
Trichloroethene	10		10	100	70-130
1,2-Dichloropropane	10		9.8	98	70-130
cis-1,3-Dichloropropene	10		9.2	92	70-130
Toluene	10		10	100	70-130
trans-1,3-Dichloroprope	10		8.9	89	70-130
1,1,2-Trichloroethane	10		9.8	98	70-130
Tetrachloroethene	10		14	140*	70-130
Chlorobenzene	10		8.3	83	70-130
Ethylbenzene	10		8.3	83	70-130
Styrene	10		8.6	86	70-130
Xylene (m,p)	20		15	75	70-130
Xylene (o)	10		8.0	80	70-130
1,1,2,2-Tetrachloroetha	10		9.0	90	70-130
1,3-Dichlorobenzene	10		9.7	97	70-130
1,4-Dichlorobenzene	10		8.5	85	70-130

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

* Values outside of QC limits

COMMENTS: _____

FORM 3
AIR VOLATILE LAB CONTROL SAMPLE

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 82724

Matrix Spike - Sample No.: C2_ICVLCS

COMPOUND	SPIKE ADDED (ppbv)	SAMPLE CONCENTRATION (ug/L)	LCS CONCENTRATION (ppbv)	LCS % REC #	QC. LIMITS REC.
1,2-Dichlorobenzene	10		9.1	91	70-130

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

* Values outside of QC limits

COMMENTS: _____

FORM 3
AIR VOLATILE LAB CONTROL SAMPLE

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 82724

Matrix Spike - Sample No.: C2_ICVLCS

COMPOUND	SPIKE ADDED (ppbv)	LCSD CONCENTRATION (ppbv)	LCSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Chloromethane	10	9.6	96	2	40	70-130
Vinyl Chloride	10	9.1	91	3	40	70-130
Bromomethane	10	9.6	96	1	40	70-130
Chloroethane	10	9.3	93	7	40	70-130
Trichlorofluoromethane	10	10	100	0	40	70-130
Methylene Chloride	10	9.0	90	1	40	70-130
1,1-Dichloroethane	10	9.6	96	3	40	70-130
cis-1,2-Dichloroethene	10	9.9	99	2	40	70-130
Chloroform	10	10	100	0	40	70-130
1,1,1-Trichloroethane	10	10	100	0	40	70-130
Carbon Tetrachloride	10	10	100	0	40	70-130
Benzene	10	9.9	99	1	40	70-130
1,2-Dichloroethane	10	10	100	0	40	70-130
Trichloroethene	10	10	100	0	40	70-130
1,2-Dichloropropane	10	9.9	99	1	40	70-130
cis-1,3-Dichloropropene	10	9.3	93	1	40	70-130
Toluene	10	9.9	99	1	40	70-130
trans-1,3-Dichloroprope	10	8.9	89	0	40	70-130
1,1,2-Trichloroethane	10	9.8	98	0	40	70-130
Tetrachloroethene	10	14	140*	0	40	70-130
Chlorobenzene	10	10	100	18	40	70-130
Ethylbenzene	10	12	120	36	40	70-130
Styrene	10	10	100	15	40	70-130
Xylene (m,p)	20	21	105	33	40	70-130
Xylene (o)	10	8.6	86	7	40	70-130
1,1,2,2-Tetrachloroetha	10	9.7	97	7	40	70-130
1,3-Dichlorobenzene	10	10	100	3	40	70-130
1,4-Dichlorobenzene	10	8.3	83	2	40	70-130

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

* Values outside of QC limits

COMMENTS: _____

FORM 3
AIR VOLATILE LAB CONTROL SAMPLE

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 82724

Matrix Spike - Sample No.: C2_ICVLCS

COMPOUND	SPIKE ADDED (ppbv)	LCSD CONCENTRATION (ppbv)	LCSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
1,2-Dichlorobenzene	10	9.2	92	1	40	70-130

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

* Values outside of QC limits

RPD: 0 out of 29 outside limits
Spike Recovery: 2 out of 58 outside limits

COMMENTS: _____

FORM 4
VOLATILE METHOD BLANK SUMMARY

CLIENT SAMPLE NO.

ABLKC2

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 82724

Lab File ID: CKB001 Lab Sample ID: ABLKC2

Date Analyzed: 05/08/01 Time Analyzed: 1440

GC Column: DB-1 ID: 0.35 (mm) Heated Purge: (Y/N) N

Instrument ID: W

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

	SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	C2_ICVLCS	C2_ICVLCS	CK010Q	1259
02	C2_ICVLCSD	C2_ICVLCSD	CK010QD	1334
03	029SVEEA0426	451721	451721	2007
04				
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COMMENTS:

FORM 5
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 82724

Lab File ID: CK001P BFB Injection Date: 05/08/01

Instrument ID: W BFB Injection Time: 0832

GC Column: DB-1 ID: 0.32 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	23.3
75	30.0 - 66.0% of mass 95	51.1
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	0.1 (0.2)1
174	50.0 - 120.0% of mass 95	65.0
175	4.0 - 9.0% of mass 174	5.0 (7.7)1
176	93.0 - 101.0% of mass 174	63.0 (97.0)1
177	5.0 - 9.0% of mass 176	4.5 (7.1)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	ASTD0005	ASTD0005	CK0005	05/08/01	0856
02	ASTD005	ASTD005	CK005	05/08/01	0931
03	ASTD010	ASTD010	CK010	05/08/01	1008
04	ASTD020	ASTD020	CK020	05/08/01	1043
05	ASTD040	ASTD040	CK040	05/08/01	1118
06	C2_ICVLCS	C2_ICVLCS	CK010Q	05/08/01	1259
07	C2_ICVLCSD	C2_ICVLCSD	CK010QD	05/08/01	1334
08	ABLKC2	ABLKC2	CKB001	05/08/01	1440
09	029SVEEA0426	451721	451721	05/08/01	2007
10					
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19					
20					
21					
22					

6A

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 82724

Instrument ID: W Calibration Date(s): 05/08/01 05/08/01

Heated Purge: (Y/N) N Calibration Time(s): 0856 1118

GC Column: DB-1 ID: 0.35 (mm)

LAB FILE ID: RRF0.5=CK0005 RRF5 =CK005
RRF10 =CK010 RRF20 =CK020 RRF40 =CK040

COMPOUND		RRF0.5	RRF5	RRF10	RRF20	RRF40	$\overline{RRF}$	% RSD	
Chloromethane	*	0.487	0.526	0.500	0.378	0.316	0.441	20.4	*
Vinyl Chloride		0.490	0.521	0.545	0.412	0.356	0.465	16.9	
Bromomethane		0.710	0.733	0.668	0.562	0.506	0.636	15.4	
Chloroethane		0.357	0.334	0.306	0.256	0.241	0.299	16.6	
Trichlorofluoromethane		2.798	2.964	2.621	2.425	2.219	2.605	11.3	
Methylene Chloride		1.251	0.989	0.854	0.777	0.718	0.918	23.1	
1,1-Dichloroethane	*	1.607	1.703	1.482	1.370	1.285	1.489	11.4	*
cis-1,2-Dichloroethene		1.259	1.334	1.163	1.063	1.006	1.165	11.6	
Chloroform		2.387	2.472	2.193	2.052	1.952	2.211	9.9	
1,1,1-Trichloroethane		2.328	2.633	2.257	2.179	2.087	2.297	9.1	
Carbon Tetrachloride		0.544	0.601	0.531	0.485	0.468	0.526	10.0	
Benzene		0.604	0.617	0.542	0.488	0.479	0.546	11.7	
1,2-Dichloroethane		1.600	1.821	1.582	1.535	1.478	1.603	8.2	
Trichloroethene		0.304	0.342	0.301	0.271	0.248	0.293	12.2	
1,2-Dichloropropane		0.201	0.208	0.195	0.166	0.164	0.187	10.9	
cis-1,3-Dichloropropene		0.293	0.300	0.284	0.255	0.272	0.281	6.3	
Toluene		0.540	0.606	0.415	0.316	0.301	0.436	30.9	
trans-1,3-Dichloropropene		0.201	0.198	0.191	0.176	0.209	0.195	6.4	
1,1,2-Trichloroethane		0.264	0.248	0.238	0.194	0.188	0.226	14.9	
Tetrachloroethene		0.312	0.350	0.362	0.329	0.322	0.335	6.2	
Chlorobenzene	*	0.618	0.624	0.558	0.507	0.494	0.560	10.8	*
Ethylbenzene		0.779	1.098	0.930	0.839	0.782	0.886	15.1	
Xylene (total)		0.291	0.417	0.399	0.282	0.354	0.349	17.5	
Styrene		0.342	0.529	0.528	0.387	0.500	0.457	19.0	
Xylene (m,p)		0.296	0.401	0.376	0.353	0.357	0.357	10.9	
Xylene (o)		0.291	0.417	0.399	0.282	0.354	0.349	17.5	
1,1,2,2-Tetrachloroethane		0.651	0.733	0.585	0.421	0.471	0.572	22.3	
1,3-Dichlorobenzene		0.532	0.669	0.409	0.466	0.539	0.523	18.6	
1,4-Dichlorobenzene		0.682	0.655	0.430	0.541	0.564	0.574	17.5	
1,2-Dichlorobenzene		0.541	0.586	0.368	0.428	0.478	0.480	18.1	

* Compounds with required minimum RRF and maximim %RSD values.
All other compounds must meet a minimim RRF of 0.010.

FORM 7
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 82724

Instrument ID: W Calibration Date: 05/08/01 Time: 1008

Lab File ID: CK010 Init. Calib. Date(s): 05/08/01 05/08/01

Heated Purge: (Y/N) N Init. Calib. Times: 0856 1118

GC Column: DB-1 ID: 0.35 (mm)

COMPOUND	$\overline{RRF}$	RRF10	MIN RRF	%D	MAX %D
Chloromethane	0.441	0.500	0.1	13.4	30.0
Vinyl Chloride	0.465	0.545	0.01	17.2	30.0
Bromomethane	0.636	0.668	0.01	5.0	30.0
Chloroethane	0.299	0.306	0.01	2.3	30.0
Trichlorofluoromethane	2.605	2.621	0.01	0.6	30.0
Methylene Chloride	0.918	0.854	0.01	7.0	30.0
1,1-Dichloroethane	1.489	1.482	0.1	0.5	30.0
cis-1,2-Dichloroethene	1.165	1.163	0.01	0.2	30.0
Chloroform	2.211	2.193	0.01	0.8	30.0
1,1,1-Trichloroethane	2.297	2.257	0.01	1.7	30.0
Carbon Tetrachloride	0.526	0.531	0.01	1.0	30.0
Benzene	0.546	0.542	0.01	0.7	30.0
1,2-Dichloroethane	1.603	1.582	0.01	1.3	30.0
Trichloroethene	0.293	0.301	0.01	2.7	30.0
1,2-Dichloropropane	0.187	0.195	0.01	4.3	30.0
cis-1,3-Dichloropropene	0.281	0.284	0.01	1.1	30.0
Toluene	0.436	0.415	0.01	4.8	30.0
trans-1,3-Dichloropropene	0.195	0.191	0.01	2.0	30.0
1,1,2-Trichloroethane	0.226	0.238	0.01	5.3	30.0
Tetrachloroethene	0.335	0.362	0.01	8.0	30.0
Chlorobenzene	0.560	0.558	0.3	0.4	30.0
Ethylbenzene	0.886	0.930	0.01	5.0	30.0
Xylene (total)	0.349	0.399	0.01	14.3	30.0
Styrene	0.457	0.528	0.01	15.5	30.0
Xylene (m,p)	0.357	0.376	0.01	5.3	30.0
Xylene (o)	0.349	0.399	0.01	14.3	30.0
1,1,2,2-Tetrachloroethane	0.572	0.585	0.01	2.3	30.0
1,3-Dichlorobenzene	0.523	0.409	0.01	21.8	30.0
1,4-Dichlorobenzene	0.574	0.430	0.01	25.1	30.0
1,2-Dichlorobenzene	0.480	0.368	0.01	23.3	30.0

FORM 8
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 82724

Lab File ID (Standard): CK040 Date Analyzed: 05/08/01

Instrument ID: W Time Analyzed: 1118

GC Column: DB-1 ID: 0.35 (mm) Heated Purge: (Y/N) N

		IS1 (BCM) AREA #	RT #	IS2 (CBZ) AREA #	RT #	IS3 (DFB) AREA #	RT #
	12 HOUR STD	229601	7.58	1384425	11.64	1074757	8.88
	UPPER LIMIT	551042	7.91	3322620	11.97	2579417	9.21
	LOWER LIMIT	91840	7.25	553770	11.31	429903	8.55
	CLIENT SAMPLE NO.						
01	C2_ICVLCS	256004	7.50	1112053	11.64	1154478	8.80
02	C2_ICVLCSD	255632	7.58	1107733	11.72	1148074	8.88
03	ABLKC2	151662	7.55	687088	11.73	696953	8.87
04	029SVEEA0426	227269	7.58	1134327	11.70	997099	8.88
05							
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IS1 (BCM) = Bromochloromethane
IS2 (CBZ) = Chlorobenzene-d5
IS3 (DFB) = 1,4-Difluorobenzene

AREA UPPER LIMIT = +140% of internal standard area
AREA LOWER LIMIT = - 60% of internal standard area
RT UPPER LIMIT = + 0.33 minutes of internal standard RT
RT LOWER LIMIT = - 0.33 minutes of internal standard RT

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

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

ACCANA SAMPLE NO.

029SVEEA
04260111

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 82724

Matrix: (soil/water) AIR Lab Sample ID: 451721

Sample wt/vol: 200(g/mL) ML Lab File ID: 451721

Level: (low/med) LOW Date Received: 04/30/01

% Moisture: not dec. _____ Date Analyzed: 05/08/01

GC Column: DB-1 ID: 0.35 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) PPBV	Q
74-87-3	Chloromethane	0.52	
75-01-4	Vinyl Chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-09-2	Methylene Chloride	0.57	
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
56-23-5	Carbon Tetrachloride	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-88-3	Toluene	0.50	U
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
1330-20-7	Xylene (total)	2.0	
100-42-5	Styrene	0.50	U
1330-20-7	Xylene (m,p)	1.3	
95-47-6	Xylene (o)	0.69	
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

ACCANA SAMPLE NO.

029SVEEA
04260111

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 82724

Matrix: (soil/water) AIR Lab Sample ID: 451721

Sample wt/vol: 0.0 (g/mL) ML Lab File ID: 451721

Level: (low/med) LOW Date Received: 04/30/01

% Moisture: not dec. _____ Date Analyzed: 05/08/01

GC Column: DB-1 ID: 0.35 (mm) Dilution Factor: 1.0

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

Number TICs found: 10

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

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		UNKNOWN ALKYLCYCLOHEXANE	12.49	9.0	J
2.		UNKNOWN ALIPHATIC COMPOUND	12.96	10	J
3.		UNKNOWN ALKYLCYCLOHEXANE	13.04	9.4	J
4.		UNKNOWN ALIPHATIC COMPOUND	13.68	22	J
5.		UNKNOWN ALIPHATIC COMPOUND	13.96	14	J
6.		UNKNOWN C3-ALKYLBENZENE	14.03	8.8	J
7.		UNKNOWN ALKYLCYCLOHEXANE	14.21	8.9	J
8.		UNKNOWN C4-ALKYLBENZENE	14.31	13	J
9.		UNKNOWN ALIPHATIC COMPOUND	14 72	12	J
10.		UNKNOWN ALIPHATIC COMPOUND	15.72	9.9	J
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12.					
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FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ABLKC2

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 82724

Matrix: (soil/water) AIR Lab Sample ID: ABLKC2

Sample wt/vol: 200(g/mL) ML Lab File ID: CKB001

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

% Moisture: not dec. _____ Date Analyzed: 05/08/01

GC Column: DB-1 ID: 0.35 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) PPBV	Q
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl Chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-09-2	Methylene Chloride	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
56-23-5	Carbon Tetrachloride	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-88-3	Toluene	0.50	U
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
1330-20-7	Xylene (total)	0.50	U
100-42-5	Styrene	0.50	U
1330-20-7	Xylene (m,p)	0.50	U
95-47-6	Xylene (o)	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

ABLKC2

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 82724

Matrix: (soil/water) AIR Lab Sample ID: ABLKC2

Sample wt/vol: 0.0 (g/mL) ML Lab File ID: CKB001

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

% Moisture: not dec. _____ Date Analyzed: 05/08/01

GC Column: DB-1 ID: 0.35 (mm) Dilution Factor: 1.0

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

Number TICs found: 0

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

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.					
2.					
3.					
4.					
5.					
6.					
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30.					

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

C2_ICVLCS

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 32724

Matrix: (soil/water) AIR Lab Sample ID: C2_ICVLCS

Sample wt/vol: 200(g/mL) ML Lab File ID: CK010Q

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

% Moisture: not dec. _____ Date Analyzed: 05/08/01

GC Column: DB-1 ID: 0.35 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) PPBV	Q
74-87-3	Chloromethane	9.8	
75-01-4	Vinyl Chloride	9.4	
74-83-9	Bromomethane	9.7	
75-00-3	Chloroethane	10	
75-69-4	Trichlorofluoromethane	10	
75-09-2	Methylene Chloride	9.1	
75-34-3	1,1-Dichloroethane	9.9	
156-59-2	cis-1,2-Dichloroethene	9.7	
67-66-3	Chloroform	10	
71-55-6	1,1,1-Trichloroethane	10	
56-23-5	Carbon Tetrachloride	10	
71-43-2	Benzene	9.8	
107-06-2	1,2-Dichloroethane	10	
79-01-6	Trichloroethene	10	
78-87-5	1,2-Dichloropropane	9.8	
10061-01-5	cis-1,3-Dichloropropene	9.2	
108-88-3	Toluene	10	
10061-02-6	trans-1,3-Dichloropropene	8.9	
79-00-5	1,1,2-Trichloroethane	9.8	
127-18-4	Tetrachloroethene	14	
108-90-7	Chlorobenzene	8.3	
100-41-4	Ethylbenzene	8.3	
1330-20-7	Xylene (total)	23	
100-42-5	Styrene	8.6	
1330-20-7	Xylene (m,p)	15	
95-47-6	Xylene (o)	8.0	
79-34-5	1,1,2,2-Tetrachloroethane	9.0	
541-73-1	1,3-Dichlorobenzene	9.7	
106-46-7	1,4-Dichlorobenzene	8.5	
95-50-1	1,2-Dichlorobenzene	9.1	

82724

SEVERN
TRENT
SERVICES

Severn Trent
Laboratories, Inc.

SEVERN
TRENT
SERVICES

Severn Trent Laboratories, Inc.

NARRATIVE

SEVERN
TRENT
SERVICES

STL Burlington
208 South Park Drive
Suite 1
Colchester, VT 05446

Tel: 802 655 1203
Fax: 802 655 1248
www.stl-inc.com

May 15, 2001

Ms. Bonnie Hogue
Accura Analytical Laboratories
6017 Financial Drive
Norcross, GA 30071

Re: Laboratory Project No. 20031
Case: 20031; SDG: 82724

Dear Ms. Hogue:

Enclosed are the analytical results of samples received intact by Severn Trent Laboratories on April 30, 2001. Laboratory numbers have been assigned and designated as follows:

Lab ID	Client Sample ID	Sample Date	Sample Matrix
	Received: 04/30/01	ETR No: 82724	
451721	029SVEEA04260111	04/26/01	Air

Method TO-14A Modified-Volatile Organics;
Please note that due to a limitation of characters inherent in the reporting software, some characters of the client identification above were truncated.

The volatile organic analyses of the Independent Calibration Verification sample C2_ICVLCS and duplicate sample exhibited a percent recoveries of the target compound Tetrachloroethene that were above control criteria. This exceedence is identified on the associated Form IIIs.

Please note that client specific matrix spike/matrix spike duplicate samples were not performed, nor requested with this sample delivery group.

If there are any questions regarding this submittal, please contact Ron Pentkowski at (802) 655-1203.

This report shall not be reproduced, except in full, without the written approval of the laboratory. This report is sequentially numbered starting with page 0001 and ending with page 91.

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SEVERN TRENT SERVICES

STL Burlington

I certify that this package is in compliance with the NELAC requirements, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Director or his designee, as verified by the following signature.

Sincerely,

Christopher A. Ouellette
Laboratory Director

RAP/kag
Enclosure

C01-B last alpha

SEVERN TRENT SERVICES

Severn Trent Laboratories, Inc.

METHOD TO-14A
VOLATILE ORGANIC ANALYSIS

QC SUMMARY

CH2M Hill Constructors, Inc.
115 Perimeter Center Place, Suite ~00
Atlanta, GA 30346-12~8
Tel No (~~0) 604-9182 , Fax No (~~0) 604-9282

CHAIN-OF-CUSTODY RECORD

COC NUMBER
154282-15

PROJECT NAME	PROJECT NUMBER	LAB NAME AND CONTACT	FAX AND MAIL REPORTS/EDD TO RECIPIENT 1 (Name and Company)	RECIPIENT 1 (Address, Tel No , and Fax No)
N.A.S Cecil Field 103rd Street	154282	Severn Trent Laboratories/ Ron Pentkowski	Bonnie Hogue Accura Analytical Laboratory	6017 Financial Drive Norcross, GA 30071 (770) 449-8800 Fax:(770) 449-5477
PROJECT PHASE/SITE/TASK	CTO OR DO NUMBER	LAB PO NUMBER	FAX AND MAIL REPORTS/EDD TO RECIPIENT 2 (Name and Company)	RECIPIENT 2 (Address, Tel No , and Fax No)
103rd Street Monthly Air Sample	0029	1760	Jennifer Zimmerman / J.A Jones Env. Services	6219 Authority Ave. Building 1 Jacksonville, FL 32215 (904) 7774812 FAX: (904) 7774262
PROJECT CONTACT	PROJECT TEL NO AND FAX NO	LAB TEL NO AND FAX NO	FAX AND MAIL REPORTS/EDD TO RECIPIENT 3 (Name and Company)	RECIPIENT 3 (Address, Tel No , and Fax No)
Randy Dumaop	Ph:(904)777-4812 Fax:(904) 777-4262	Ph:(802) 655-1203	Jeff Wilmoth / CH2M Hill Constuctors, Inc.	115 Perimeter Center Place, N.E. Suite 700 Atlanta, GA 30346 (770)604-9182 Ext.561 FAX:604-9282

ITEM	SAMPLE IDENTIFIER	SAMPLE DESCRIPTION/LOCATION	MATRIX (see codes on back)	DATE COLLECTED	TIME COLLECTED	DATA PKG LEVEL (see codes on back)	TAT (calendar days)	ANALYSES REQUIRED (Include Method Numbers) Volatiles by 18 / TO 14										SAMPLE TYPE (see codes on back)	COMMENTS/ SCREENING READINGS	LAB ID
1	029-SVE-E-A-0426-01-11	SVE Effluent	A	04/26/01	8:40	III/B	7	1										Grab	Summa Canister	
2																				
3																				
4																				
5																				
6																				
7																				
8																				
9																				
10																				

SAMPLER(S) AND COMPANY (please print): **Randy Dumaop / Willie Bonner J.A. Jones Environmental Services**

COURIER AND SHIPPING NUMBER: **Federal Express TRK#828023556285**

SAMPLES TEMPERATURE AND CONDITION UPON RECEIPT:

RELINQUISHED BY	DATE	TIME	RECEIVED BY	DATE	TIME
Printed Name and Signature			Printed Name and Signature		
R.Dumaop	4/27/01	11:00	Federal Express	4/27/01	11:00
Printed Name and Signature			Printed Name and Signature		
Printed Name and Signature			Printed Name and Signature		
			Frank Bessette	4-30-01	0930

Distribution [ ] Original - Laboratory (To be returned with Analytical Report), [ ] Copy 1 - Project File, [ ] Copy 2 - PMO

Form CC1001, Rev 02/00

SEVERN TRENT SERVICES

STL Burlington

The following Qualifiers may be used when reporting any Organic parameters analyzed by Gas Chromatography/mass Spectometry (GCMS). Any additional qualifiers used in the reports will be described in the case narrative. These flags are based on the EPA Contract Laboratory Program statement of work.

GC/MS Qualifiers

A- The reported Tentatively Identified Compound (TIC) is a suspected Aldol-condensation product.

B- The reported analyte was detected in the associated method blank as well as the sample.

D - This flag identifies all compounds identified in an analysis at a secondary dilution factor. This flag alerts data users that any discrepancies between the concentrations reported for the dilutions may be due to dilution of the sample or extract. It additionally indicates that spike recoveries may have been diluted below quantifiable levels.

E- Compound quantitation is above the instrument's calibration range for this analysis.

J - Indicates an estimated value. This flag is used when the result is less than the reporting limit, but > ½ reporting limit.

U- Indicates compound was analyzed for but not detected above the reporting limit.

X,Y,Z - Laboratory defined flags. These flags must be fully described, and such description attached to the Sample Data Summary Package and the case Narrative. Begin by using "X" and go on to "Y" as necessary. These flags may also be used to combine several flags, as needed.

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FORM 3
AIR VOLATILE LAB CONTROL SAMPLE

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 82724

Matrix Spike - Sample No.: C2_ICVLCS

COMPOUND	SPIKE ADDED (ppbv)	SAMPLE CONCENTRATION (ug/L)	LCS CONCENTRATION (ppbv)	LCS % REC #	QC. LIMITS REC.
Chloromethane	10		9.8	98	70-130
Vinyl Chloride	10		9.4	94	70-130
Bromomethane	10		9.7	97	70-130
Chloroethane	10		10	100	70-130
Trichlorofluoromethane	10		10	100	70-130
Methylene Chloride	10		9.1	91	70-130
1,1-Dichloroethane	10		9.9	99	70-130
cis-1,2-Dichloroethene	10		9.7	97	70-130
Chloroform	10		10	100	70-130
1,1,1-Trichloroethane	10		10	100	70-130
Carbon Tetrachloride	10		10	100	70-130
Benzene	10		9.8	98	70-130
1,2-Dichloroethane	10		10	100	70-130
Trichloroethene	10		10	100	70-130
1,2-Dichloropropane	10		9.8	98	70-130
cis-1,3-Dichloropropene	10		9.2	92	70-130
Toluene	10		10	100	70-130
trans-1,3-Dichloroprope	10		8.9	89	70-130
1,1,2-Trichloroethane	10		9.8	98	70-130
Tetrachloroethene	10		14	140*	70-130
Chlorobenzene	10		8.3	83	70-130
Ethylbenzene	10		8.3	83	70-130
Styrene	10		8.6	86	70-130
Xylene (m,p)	20		15	75	70-130
Xylene (o)	10		8.0	80	70-130
1,1,2,2-Tetrachloroetha	10		9.0	90	70-130
1,3-Dichlorobenzene	10		9.7	97	70-130
1,4-Dichlorobenzene	10		8.5	85	70-130

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

* Values outside of QC limits

COMMENTS: _____

FORM 3
AIR VOLATILE LAB CONTROL SAMPLE

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 82724

Matrix Spike - Sample No.: C2_ICVLCS

COMPOUND	SPIKE ADDED (ppbv)	SAMPLE CONCENTRATION (ug/L)	LCS CONCENTRATION (ppbv)	LCS % REC #	QC. LIMITS REC.
1,2-Dichlorobenzene	10		9.1	91	70-130

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

* Values outside of QC limits

COMMENTS: _____

FORM 3
AIR VOLATILE LAB CONTROL SAMPLE

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 82724

Matrix Spike - Sample No.: C2_ICVLCS

COMPOUND	SPIKE ADDED (ppbv)	LCSD CONCENTRATION (ppbv)	LCSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Chloromethane	10	9.6	96	2	40	70-130
Vinyl Chloride	10	9.1	91	3	40	70-130
Bromomethane	10	9.6	96	1	40	70-130
Chloroethane	10	9.3	93	7	40	70-130
Trichlorofluoromethane	10	10	100	0	40	70-130
Methylene Chloride	10	9.0	90	1	40	70-130
1,1-Dichloroethane	10	9.6	96	3	40	70-130
cis-1,2-Dichloroethene	10	9.9	99	2	40	70-130
Chloroform	10	10	100	0	40	70-130
1,1,1-Trichloroethane	10	10	100	0	40	70-130
Carbon Tetrachloride	10	10	100	0	40	70-130
Benzene	10	9.9	99	1	40	70-130
1,2-Dichloroethane	10	10	100	0	40	70-130
Trichloroethene	10	10	100	0	40	70-130
1,2-Dichloropropane	10	9.9	99	1	40	70-130
cis-1,3-Dichloropropene	10	9.3	93	1	40	70-130
Toluene	10	9.9	99	1	40	70-130
trans-1,3-Dichloroprope	10	8.9	89	0	40	70-130
1,1,2-Trichloroethane	10	9.8	98	0	40	70-130
Tetrachloroethene	10	14	140*	0	40	70-130
Chlorobenzene	10	10	100	18	40	70-130
Ethylbenzene	10	12	120	36	40	70-130
Styrene	10	10	100	15	40	70-130
Xylene (m,p)	20	21	105	33	40	70-130
Xylene (o)	10	8.6	86	7	40	70-130
1,1,2,2-Tetrachloroetha	10	9.7	97	7	40	70-130
1,3-Dichlorobenzene	10	10	100	3	40	70-130
1,4-Dichlorobenzene	10	8.3	83	2	40	70-130

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

* Values outside of QC limits

COMMENTS: _____

FORM 3
AIR VOLATILE LAB CONTROL SAMPLE

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 82724

Matrix Spike - Sample No.: C2_ICVLCS

COMPOUND	SPIKE ADDED (ppbv)	LCSD CONCENTRATION (ppbv)	LCSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
1,2-Dichlorobenzene	10	9.2	92	1	40	70-130

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

* Values outside of QC limits

RPD: 0 out of 29 outside limits
Spike Recovery: 2 out of 58 outside limits

COMMENTS: _____

FORM 4
VOLATILE METHOD BLANK SUMMARY

CLIENT SAMPLE NO.

ABLKC2

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 82724

Lab File ID: CKB001 Lab Sample ID: ABLKC2

Date Analyzed: 05/08/01 Time Analyzed: 1440

GC Column: DB-1 ID: 0.35 (mm) Heated Purge: (Y/N) N

Instrument ID: W

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

	SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	C2_ICVLCS	C2_ICVLCS	CK010Q	1259
02	C2_ICVLCSD	C2_ICVLCSD	CK010QD	1334
03	029SVEEA0426	451721	451721	2007
04				
05				
06				
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COMMENTS:

FORM 5
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 82724

Lab File ID: CK001P BFB Injection Date: 05/08/01

Instrument ID: W BFB Injection Time: 0832

GC Column: DB-1 ID: 0.32 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	23.3
75	30.0 - 66.0% of mass 95	51.1
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	0.1 (0.2)1
174	50.0 - 120.0% of mass 95	65.0
175	4.0 - 9.0% of mass 174	5.0 (7.7)1
176	93.0 - 101.0% of mass 174	63.0 (97.0)1
177	5.0 - 9.0% of mass 176	4.5 (7.1)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	ASTD0005	ASTD0005	CK0005	05/08/01	0856
02	ASTD005	ASTD005	CK005	05/08/01	0931
03	ASTD010	ASTD010	CK010	05/08/01	1008
04	ASTD020	ASTD020	CK020	05/08/01	1043
05	ASTD040	ASTD040	CK040	05/08/01	1118
06	C2_ICVLCS	C2_ICVLCS	CK010Q	05/08/01	1259
07	C2_ICVLCSD	C2_ICVLCSD	CK010QD	05/08/01	1334
08	ABLKC2	ABLKC2	CKB001	05/08/01	1440
09	029SVEEA0426	451721	451721	05/08/01	2007
10					
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22					

FORM 8
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 82724

Lab File ID (Standard): CK040 Date Analyzed: 05/08/01

Instrument ID: W Time Analyzed: 1118

GC Column: DB-1 ID: 0.35 (mm) Heated Purge: (Y/N) N

		IS1 (BCM) AREA #	RT #	IS2 (CBZ) AREA #	RT #	IS3 (DFB) AREA #	RT #
	12 HOUR STD	229601	7.58	1384425	11.64	1074757	8.88
	UPPER LIMIT	551042	7.91	3322620	11.97	2579417	9.21
	LOWER LIMIT	91840	7.25	553770	11.31	429903	8.55
	CLIENT SAMPLE NO.						
01	C2_ICVLCS	256004	7.50	1112053	11.64	1154478	8.80
02	C2_ICVLCSD	255632	7.58	1107733	11.72	1148074	8.88
03	ABLKC2	151662	7.55	687088	11.73	696953	8.87
04	029SVEEA0426	227269	7.58	1134327	11.70	997099	8.88
05							
06							
07							
08							
09							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							

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

AREA UPPER LIMIT = +140% of internal standard area
AREA LOWER LIMIT = - 60% of internal standard area
RT UPPER LIMIT = + 0.33 minutes of internal standard RT
RT LOWER LIMIT = - 0.33 minutes of internal standard RT

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

SEVERN TRENT SERVICES

Severn Trent Laboratories, Inc.

METHOD TO-14A
VOLATILE ORGANIC ANALYSIS

SUPPORTIVE DOCUMENTATION

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

ACCANA SAMPLE NO.

029SVEEA
04260111

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 82724

Matrix: (soil/water) AIR Lab Sample ID: 451721

Sample wt/vol: 200(g/mL) ML Lab File ID: 451721

Level: (low/med) LOW Date Received: 04/30/01

% Moisture: not dec. _____ Date Analyzed: 05/08/01

GC Column: DB-1 ID: 0.35 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) PPBV	Q
74-87-3	Chloromethane	0.52	
75-01-4	Vinyl Chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-09-2	Methylene Chloride	0.57	
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
56-23-5	Carbon Tetrachloride	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-88-3	Toluene	0.50	U
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
1330-20-7	Xylene (total)	2.0	
100-42-5	Styrene	0.50	U
1330-20-7	Xylene (m,p)	1.3	
95-47-6	Xylene (o)	0.69	
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

ACCANA SAMPLE NO.
029SVEEA
04260111

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 82724

Matrix: (soil/water) AIR Lab Sample ID: 451721

Sample wt/vol: 0.0 (g/mL) ML Lab File ID: 451721

Level: (low/med) LOW Date Received: 04/30/01

% Moisture: not dec. _____ Date Analyzed: 05/08/01

GC Column: DB-1 ID: 0.35 (mm) Dilution Factor: 1.0

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

Number TICs found: 10

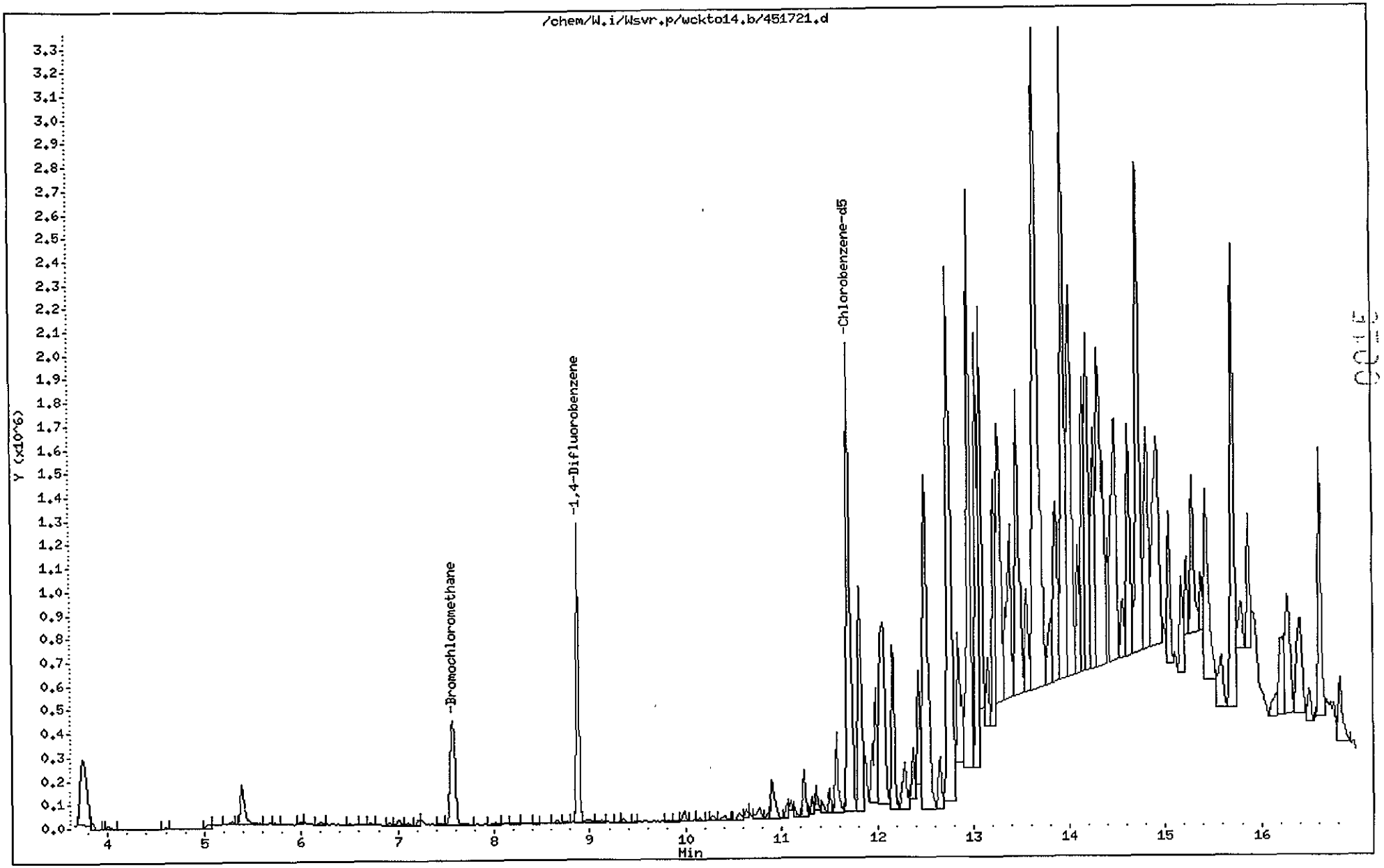
CONCENTRATION UNITS:
(ug/L or ug/Kg) ppbv

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		UNKNOWN ALKYLCYCLOHEXANE	12.49	9.0	J
2.		UNKNOWN ALIPHATIC COMPOUND	12.96	10	J
3.		UNKNOWN ALKYLCYCLOHEXANE	13.04	9.4	J
4.		UNKNOWN ALIPHATIC COMPOUND	13.68	22	J
5.		UNKNOWN ALIPHATIC COMPOUND	13.96	14	J
6.		UNKNOWN C3-ALKYLBENZENE	14.03	8.8	J
7.		UNKNOWN ALKYLCYCLOHEXANE	14.21	8.9	J
8.		UNKNOWN C4-ALKYLBENZENE	14.31	13	J
9.		UNKNOWN ALIPHATIC COMPOUND	14.72	12	J
10.		UNKNOWN ALIPHATIC COMPOUND	15.72	9.9	J
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					
21.					
22.					
23.					
24.					
25.					
26.					
27.					
28.					
29.					
30.					

Data File: /chem/W.i/Wsvr.p/wckto14.b/451721.d
Date : 08-MAY-2001 20:07
Client ID: 029SVEEA04260111
Sample Info: 451721;029SVEEA04260111;82724;0508C2
Purge Volume: 200.0
Column phase: DB-1

Instrument: W.i

Operator: GMM
Column diameter: 0.35



STL Burlington

AIR TOXICS QUANTITATION REPORT

Data file : /chem/W.i/Wsvr.p/wckto14.b/451721.d
Lab Smp Id: 451721 Client Smp ID: 029SVEEA04260111
Inj Date : 08-MAY-2001 20:07
Operator : GMM Inst ID: W.i
Smp Info : 451721;029SVEEA04260111;82724;0508C2
Misc Info : 100%
Comment :
Method : /chem/W.i/Wsvr.p/wckto14.b/bto14a.m
Meth Date : 14-May-2001 14:27 mim Quant Type: ISTD
Cal Date : 08-MAY-2001 11:18 Cal File: ck040.d
Als bottle: 9
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ACCANA2.sub
Target Version: 3.50
Processing Host: chemsvr4

Concentration Formula: Amt * DF * X* Uf/Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
X	200.00000	method volume factor
Uf	1.00000	ng unit correction factor
Vo	200.00000	Sample Volume purged (mL)

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	FINAL (ppbv)
2	Chloromethane	50	4.016	4.056	(0.530)	5268	0.52521	0.52
4	Vinyl Chloride	62	Compound Not Detected.					
5	Bromomethane	94	Compound Not Detected.					
6	Chloroethane	64	Compound Not Detected					
7	Trichlorofluoromethane	101	Compound Not Detected.					
9	Methylene Chloride	49	5.997	5.907	(0.792)	11855	0.56867	0.57
11	1,1-Dichloroethane	63	Compound Not Detected.					
12	cis-1,2-Dichloroethene	61	Compound Not Detected.					
* 13	Bromochloromethane	128	7.575	7.440	(1.000)	227269	10.0000	
14	Chloroform	83	Compound Not Detected.					
15	1,2-Dichloroethane	62	Compound Not Detected.					
16	1,1,1-Trichloroethane	97	Compound Not Detected.					
17	Benzene	78	Compound Not Detected.					
18	Carbon Tetrachloride	117	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)
*	19 1,4-Difluorobenzene	114	8.881	8.745	(1.000)	997099	10.0000	
	20 1,2-Dichloropropane	63	Compound Not Detected.					
	21 Trichloroethene	95	Compound Not Detected.					
	22 cis-1,3-Dichloropropene	75	Compound Not Detected.					
	23 trans-1,3-Dichloropropene	75	Compound Not Detected.					
	24 1,1,2-Trichloroethane	83	Compound Not Detected.					
	25 Toluene	92	Compound Not Detected.					
	27 Tetrachloroethene	166	Compound Not Detected.					
*	28 Chlorobenzene-d5	117	11.703	11.613	(1.000)	1134327	10.0000	
	29 Chlorobenzene	112	Compound Not Detected.					
	30 Ethylbenzene	91	Compound Not Detected.					
	31 Xylene (m,p)	106	12.083	11.993	(1.032)	52972	1.30952	1.3
	32 Styrene	104	Compound Not Detected.					
M	33 Xylene (total)	106				80152	2.02695	2.0
	34 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					
	35 Xylene (o)	106	12.416	12.311	(1.061)	27180	0.68735	0.69(Q)
	38 1,3-Dichlorobenzene	146	Compound Not Detected.					
	39 1,4-Dichlorobenzene	146	Compound Not Detected.					
	40 1,2-Dichlorobenzene	146	Compound Not Detected.					

QC Flag Legend

Q - Qualifier signal failed the ratio test.

STL Burlington

AIR TOXICS QUANTITATION REPORT

Data file : /chem/W.i/Wsvr.p/wckto14.b/451721.d
Lab Smp Id: 451721 Client Smp ID: 029SVEEA04260111
Inj Date : 08-MAY-2001 20:07
Operator : GMM Inst ID: W.i
Smp Info : 451721;029SVEEA04260111;82724;0508C2
Misc Info : 100%
Comment :
Method : /chem/W.i/Wsvr.p/wckto14.b/bto14a.m
Meth Date : 14-May-2001 14:27 mim Quant Type: ISTD
Cal Date : 08-MAY-2001 11:18 Cal File: ck040.d
Als bottle: 9
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ACCANA2.sub
Target Version: 3.50
Processing Host: chemsvr4

Concentration Formula: Amt * DF * X* Uf/Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
X	200.00000	method volume factor
Uf	1.00000	ng unit correction factor
Vo	200.00000	Sample Volume purged (mL)

Cpnd Variable Local Compound Variable

ISTD	RT	AREA	AMOUNT
* 28 Chlorobenzene-d5	11.703	5305878	10.000

	RT	AREA	CONCENTRATIONS ON-COL ppbv	FINAL ppbv	QUAL	QUANT LIBRARY	LIB ENTRY	CPND #
Unknown alkylcyclohexane	12.492	4806244	9.05833774	9.0	C		0	28
Unknown aliphatic compound	12.963	5425215	10.2249148	10	0		0	28

RT	AREA	CONCENTRATIONS ON-COL(ppbv)	FINAL(ppbv)	QUAL	QUANT LIBRARY	LIB ENTRY	CPND #
Unknown alkylcyclohexane					CAS #:		
13.039	4995227	9.41451578	9.4	0		0	28
Unknown aliphatic compound					CAS #:		
13.676	11738580	22.1237270	22	0		0	28(L)
Unknown aliphatic compound					CAS #:		
13.964	7611508	14.3454251	14	0		0	28
Unknown C3-alkylbenzene					CAS #:		
14.025	4668390	8.79852493	8.8	0		0	28
Unknown alkylcyclohexane					CAS #:		
14.207	4721468	8.89856157	8.9	0		0	28
Unknown C4-alkylbenzene					CAS #:		
14.313	6950420	13.0994710	13	0		0	28
Unknown aliphatic compound					CAS #:		
14.723	6627665	12.4911749	12	0		0	28
Unknown aliphatic compound					CAS #:		
15.725	5234737	9.86591968	9.9	0		0	28(L)

QC Flag Legend

L - Operator selected an alternate library search match.

Data File: /chem/W.i/Wsvr.p/wckto14.b/451721.d

Date : 08-MAY-2001 20:07

Client ID: 029SVEEA04260111

Instrument: W.i

Sample Info: 451721;029SVEEA04260111;82724;0508C2

Purge Volume: 200.0

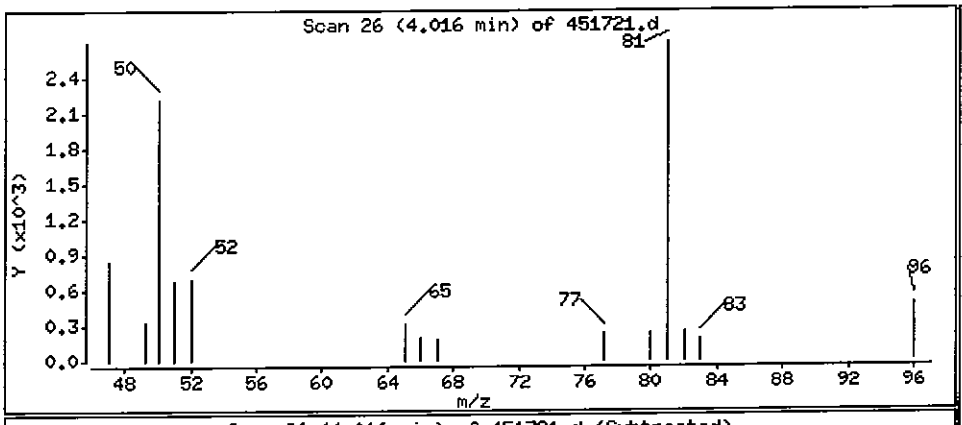
Operator: GMM

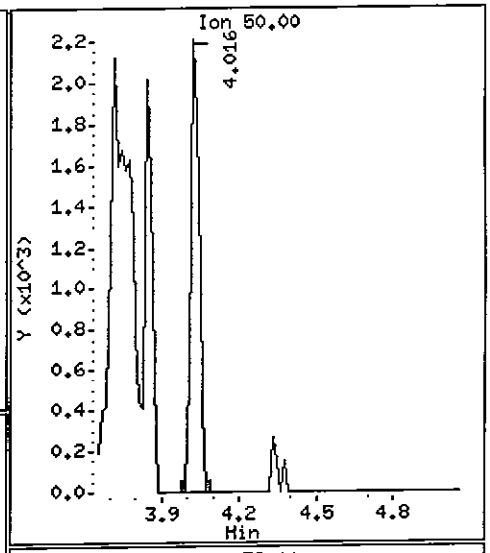
Column phase: DB-1

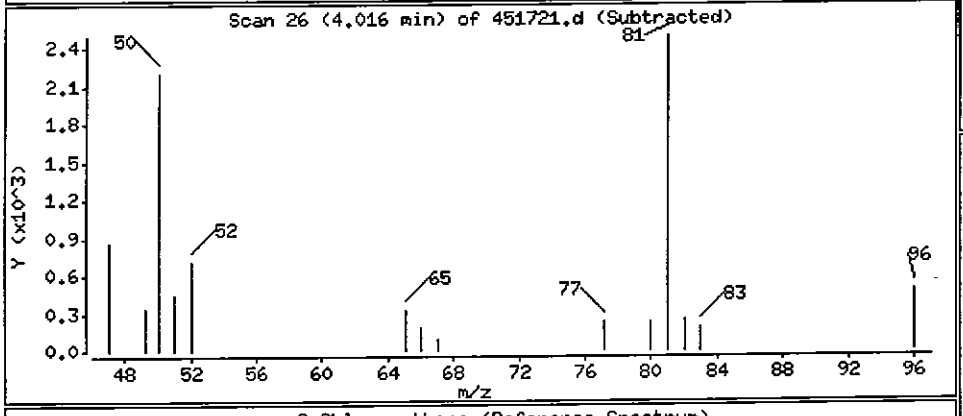
Column diameter: 0.35

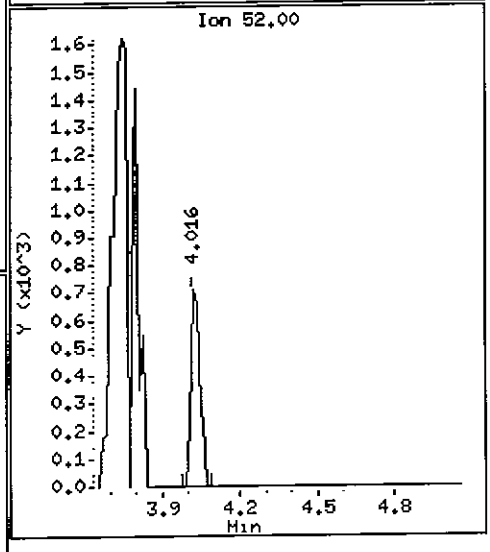
2 Chloromethane

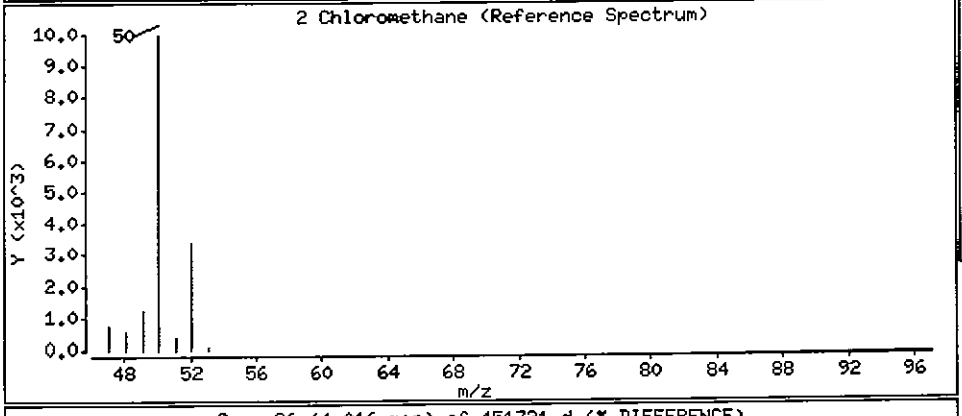
Concentration: 0.52 ppbv

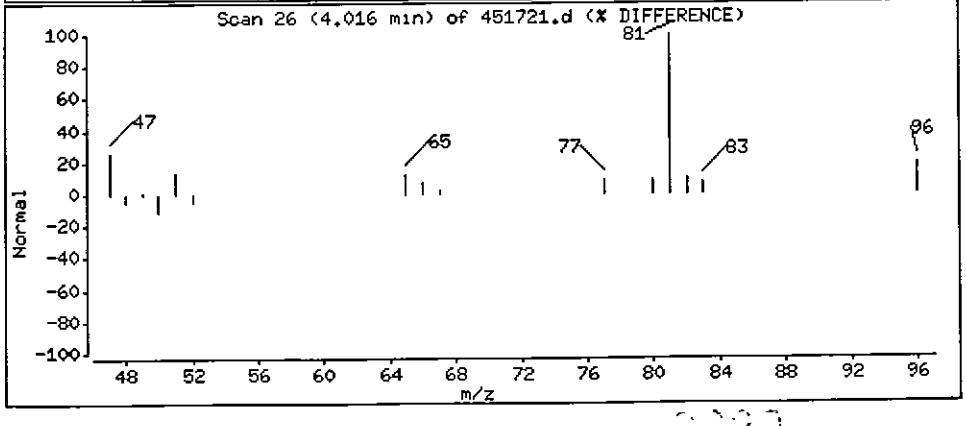












Data File: /chem/W.i/Wsvr.p/wckto14.b/451721.d

Date : 08-MAY-2001 20:07

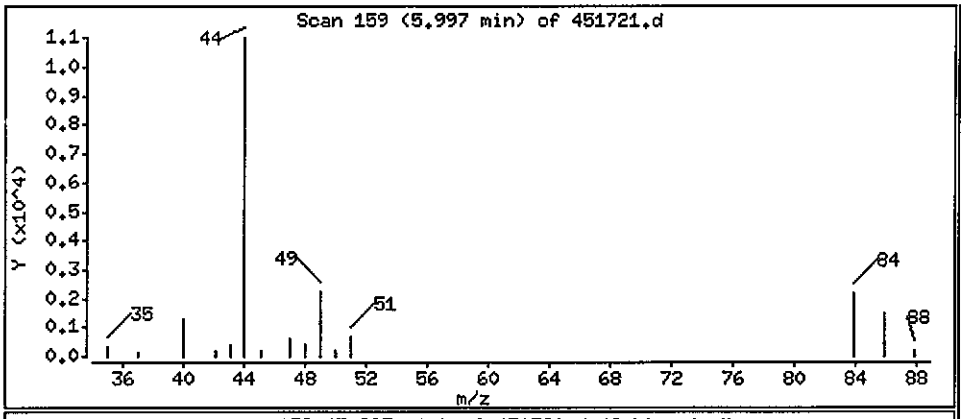
Client ID: 029SVEEA04260111 Instrument: W.i

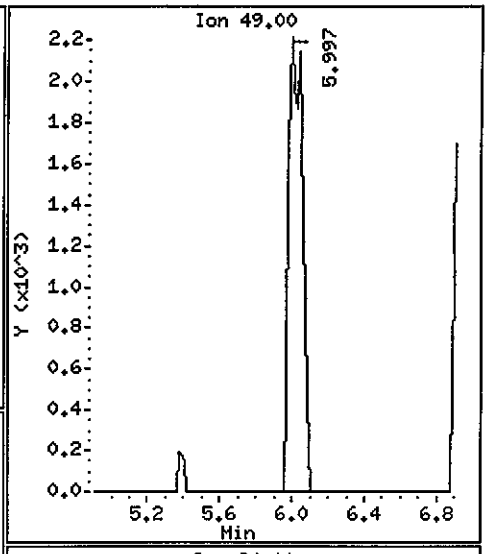
Sample Info: 451721;029SVEEA04260111;82724;0508C2

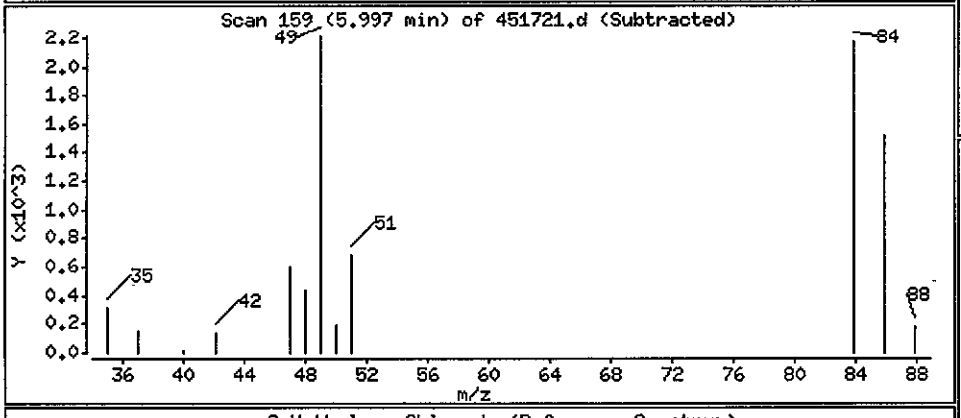
Purge Volume: 200.0 Operator: GMM

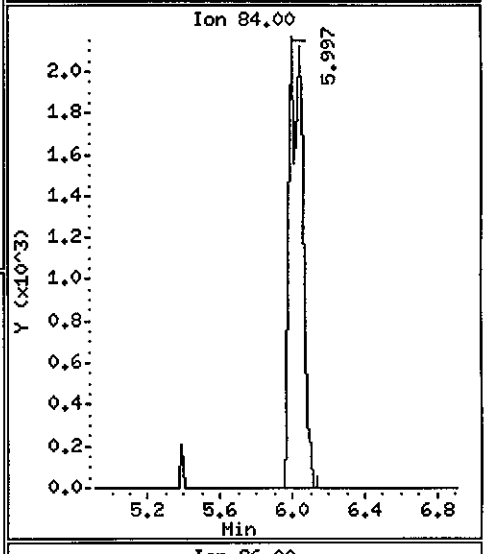
Column phase: DB-1 Column diameter: 0.35

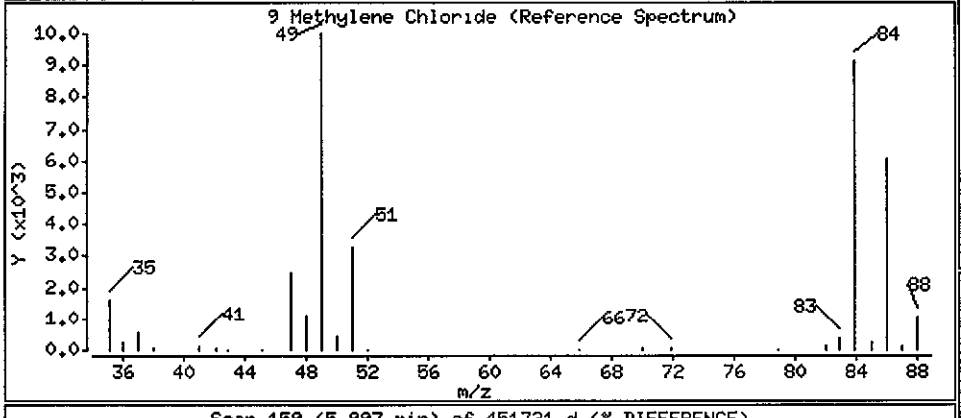
9 Methylene Chloride Concentration: 0.57 ppbv

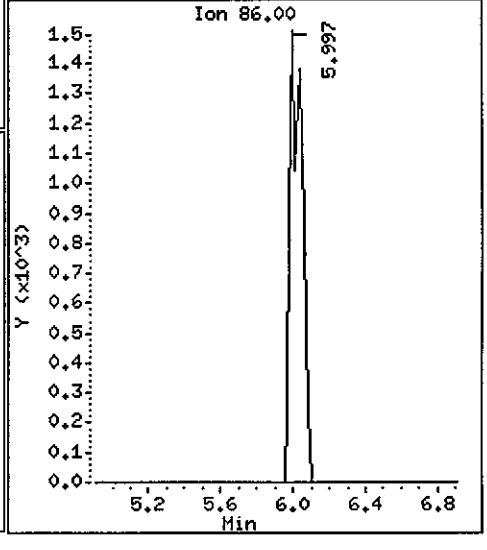


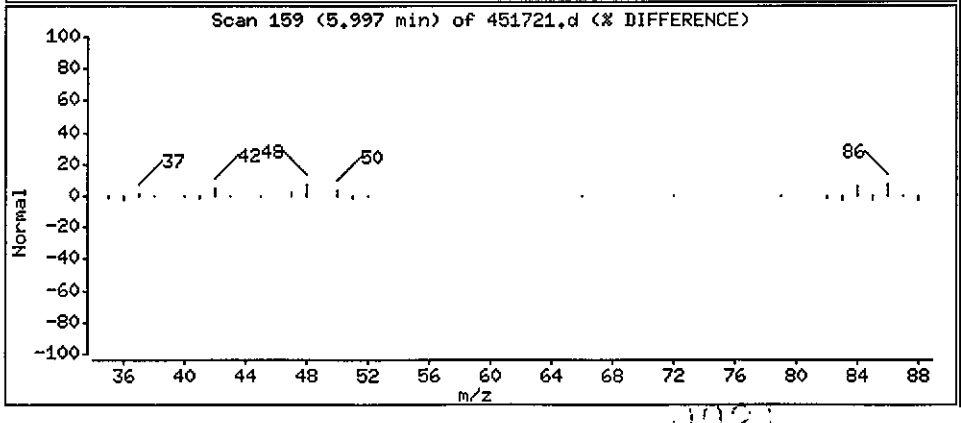












Data File: /chem/W.i/Wsvr.p/wckto14.b/451721.d

Date : 08-MAY-2001 20:07

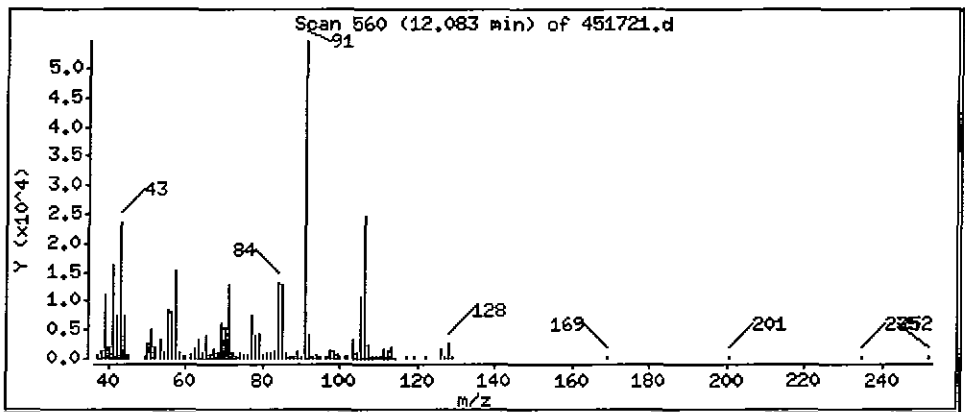
Client ID: 029SVEEA04260111 Instrument: W.i

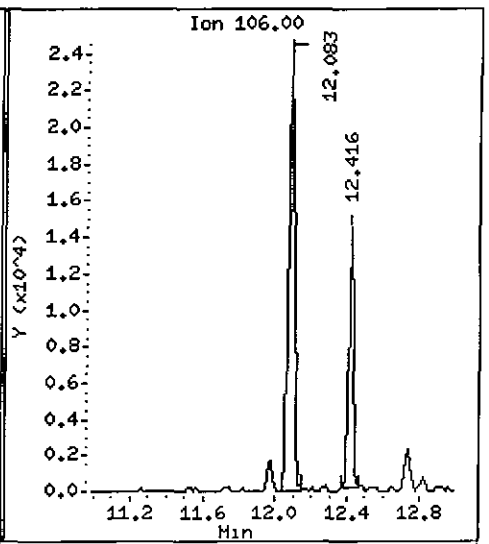
Sample Info: 451721;029SVEEA04260111;82724;0508C2

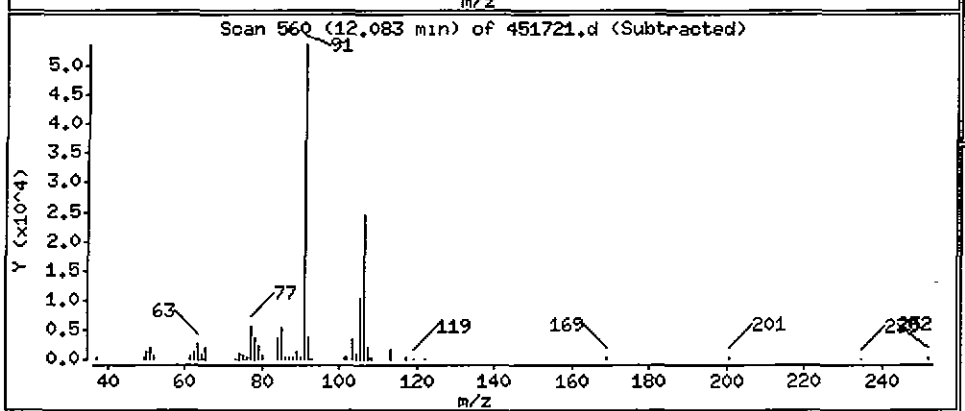
Purge Volume: 200.0 Operator: GMH

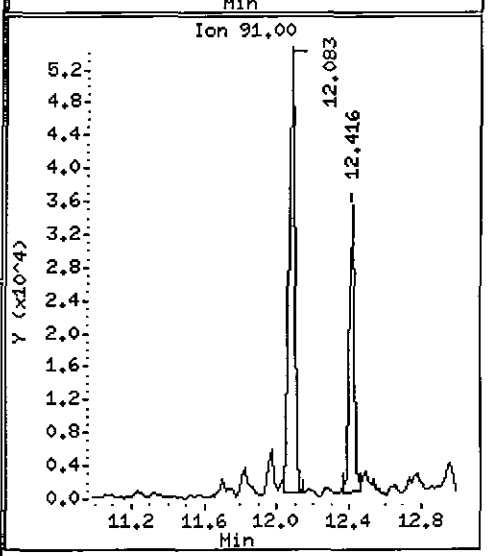
Column phase: DB-1 Column diameter: 0.35

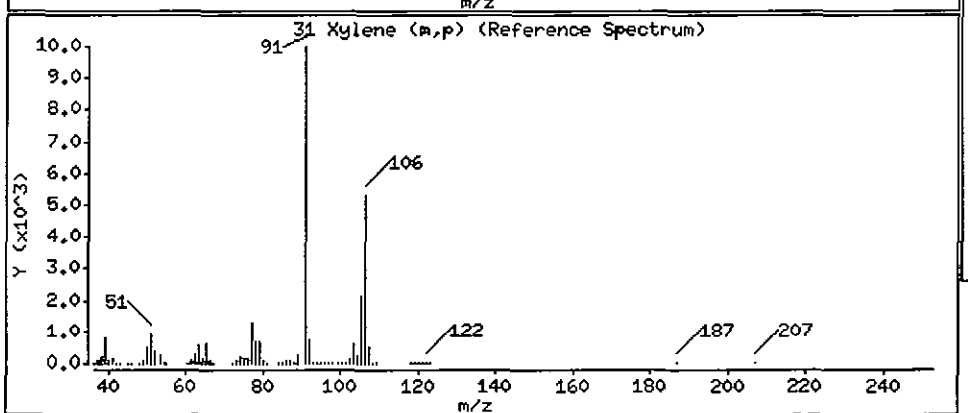
31 Xylene (m,p) Concentration: 1.3 ppbv

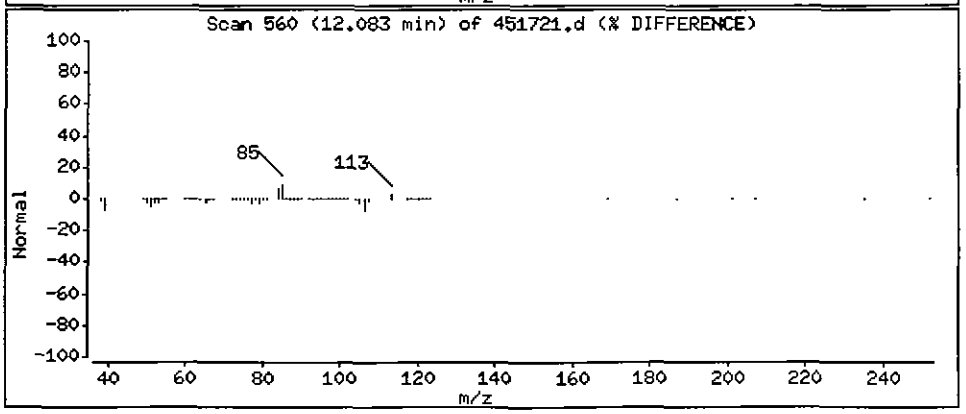












Data File: /chem/W.i/Wsvr.p/wckto14.b/451721.d

Date : 08-MAY-2001 20:07

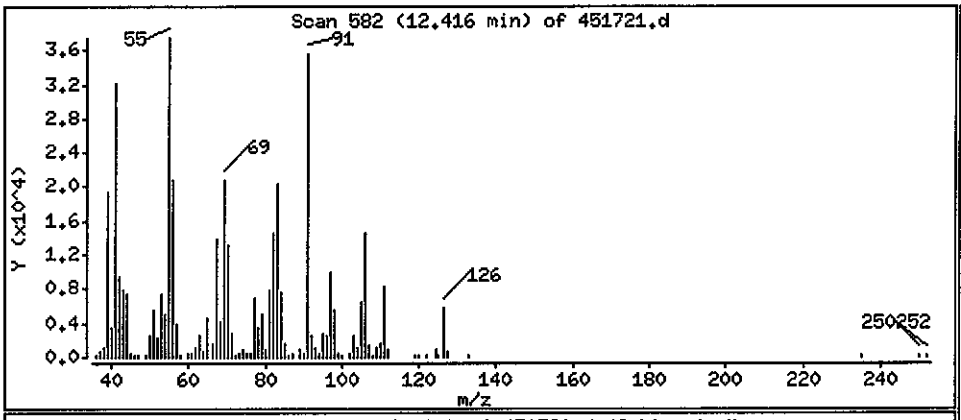
Client ID: 029SVEEA04260111 Instrument: W.i

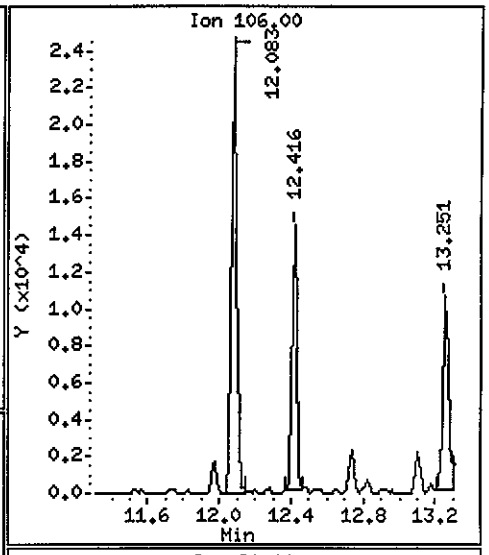
Sample Info: 451721;029SVEEA04260111;82724;0508C2

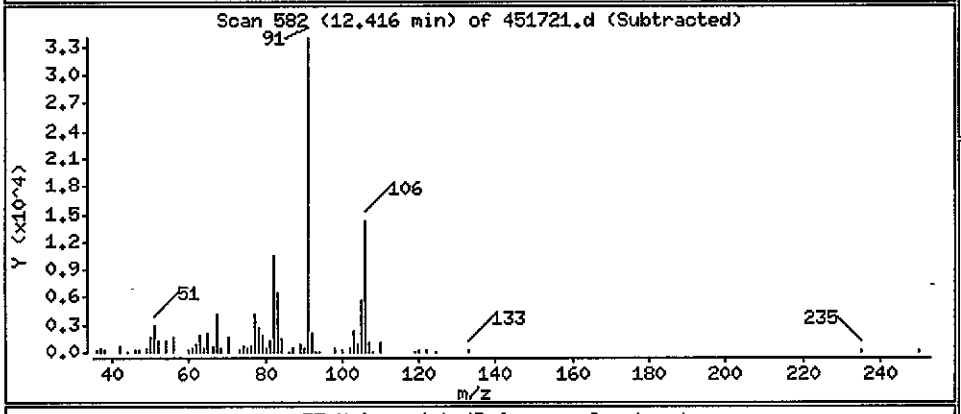
Purge Volume: 200.0 Operator: GHM

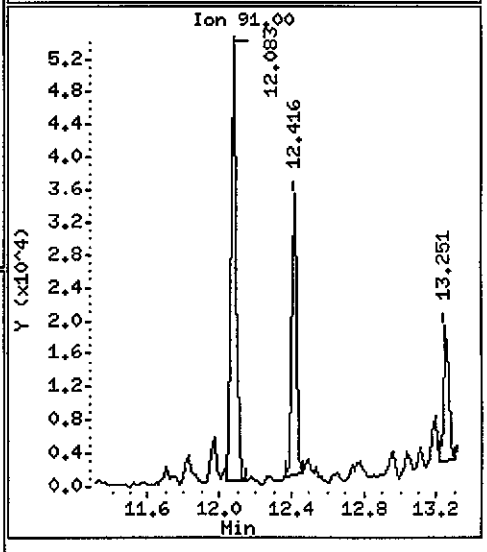
Column phase: DB-1 Column diameter: 0.35

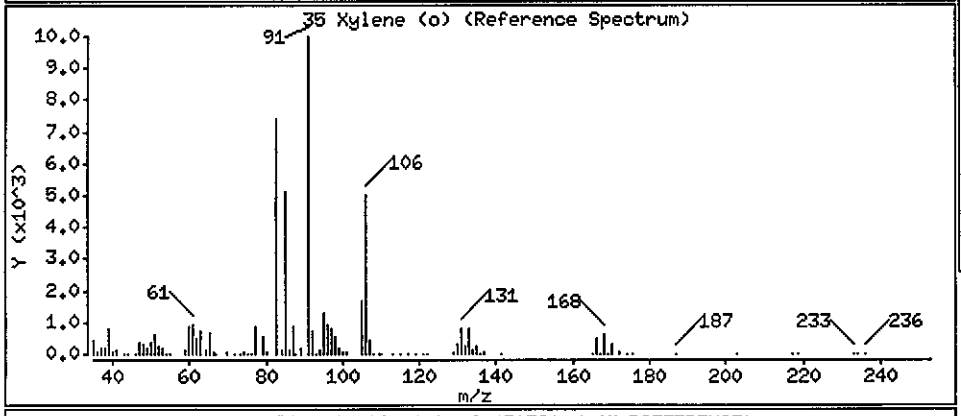
35 Xylene (o) Concentration: 0.69 ppbv

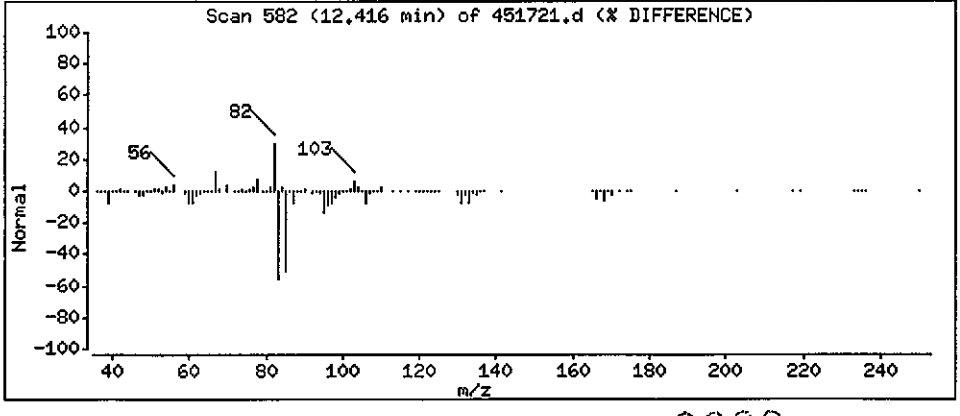












Data File: /chem/W.i/Wsvr.p/wckto14.b/451721.d

Date : 08-MAY-2001 20:07

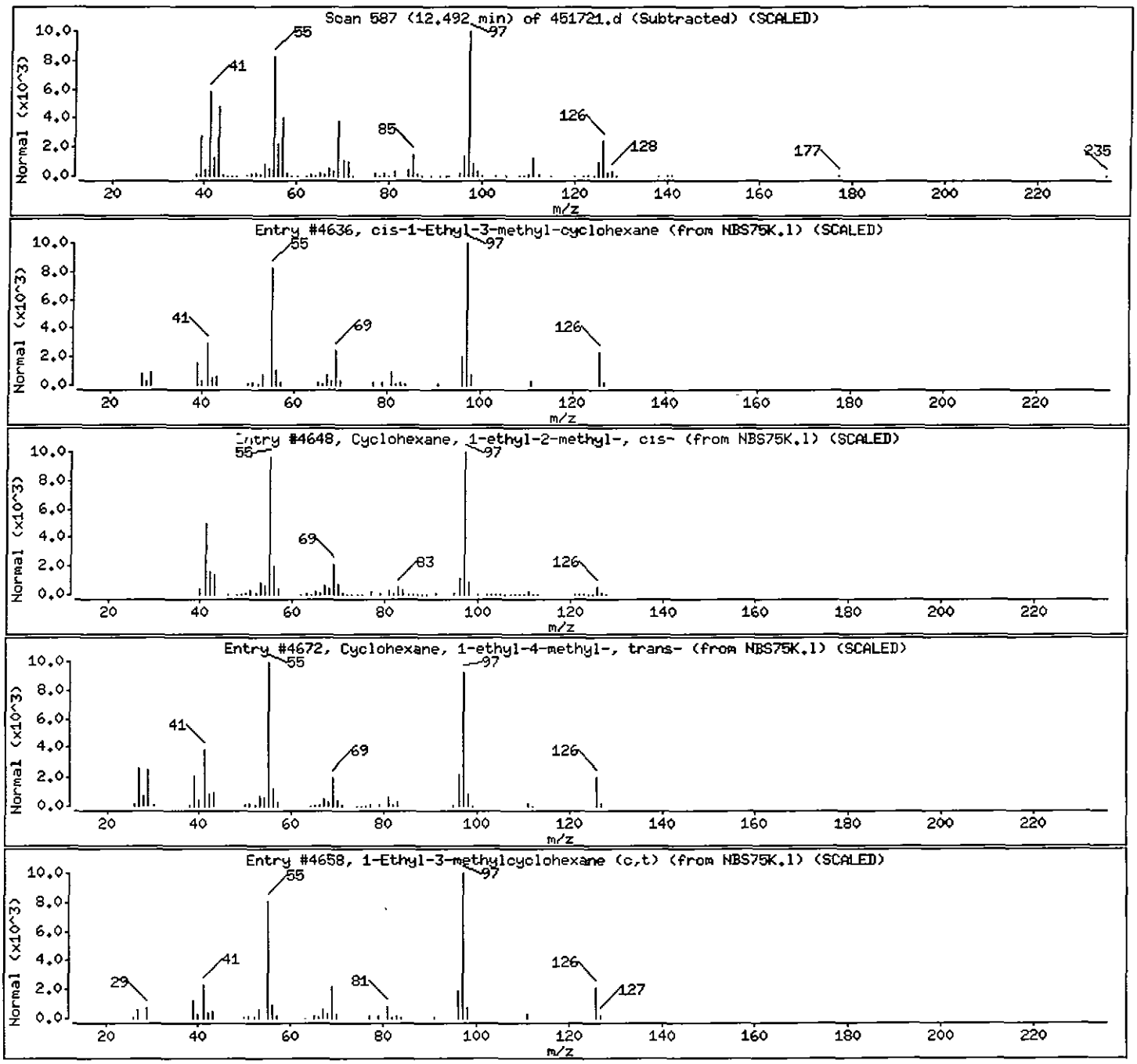
Client ID: 029SVEEA04260111 Instrument: W.i

Sample Info: 451721;029SVEEA04260111;82724;0508C2

Purge Volume: 200.0 Operator: GMH

Column phase: DB-1 Column diameter: 0.35

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown alkylcyclohexane						
cis-1-Ethyl-3-methyl-cyclohexane	19489-10-2	NBS75K.l	4636	64	C9H18	126
Cyclohexane, 1-ethyl-2-methyl-, cis-	4923-77-7	NBS75K.l	4648	59	C9H18	126
Cyclohexane, 1-ethyl-4-methyl-, trans-	6236-88-0	NBS75K.l	4672	58	C9H18	126
1-Ethyl-3-methylcyclohexane (c,t)	3728-55-0	NBS75K.l	4658	53	C9H18	126



Data File: /chem/W.i/Wsvr.p/wckto14.b/451721.d

Date : 08-MAY-2001 20:07

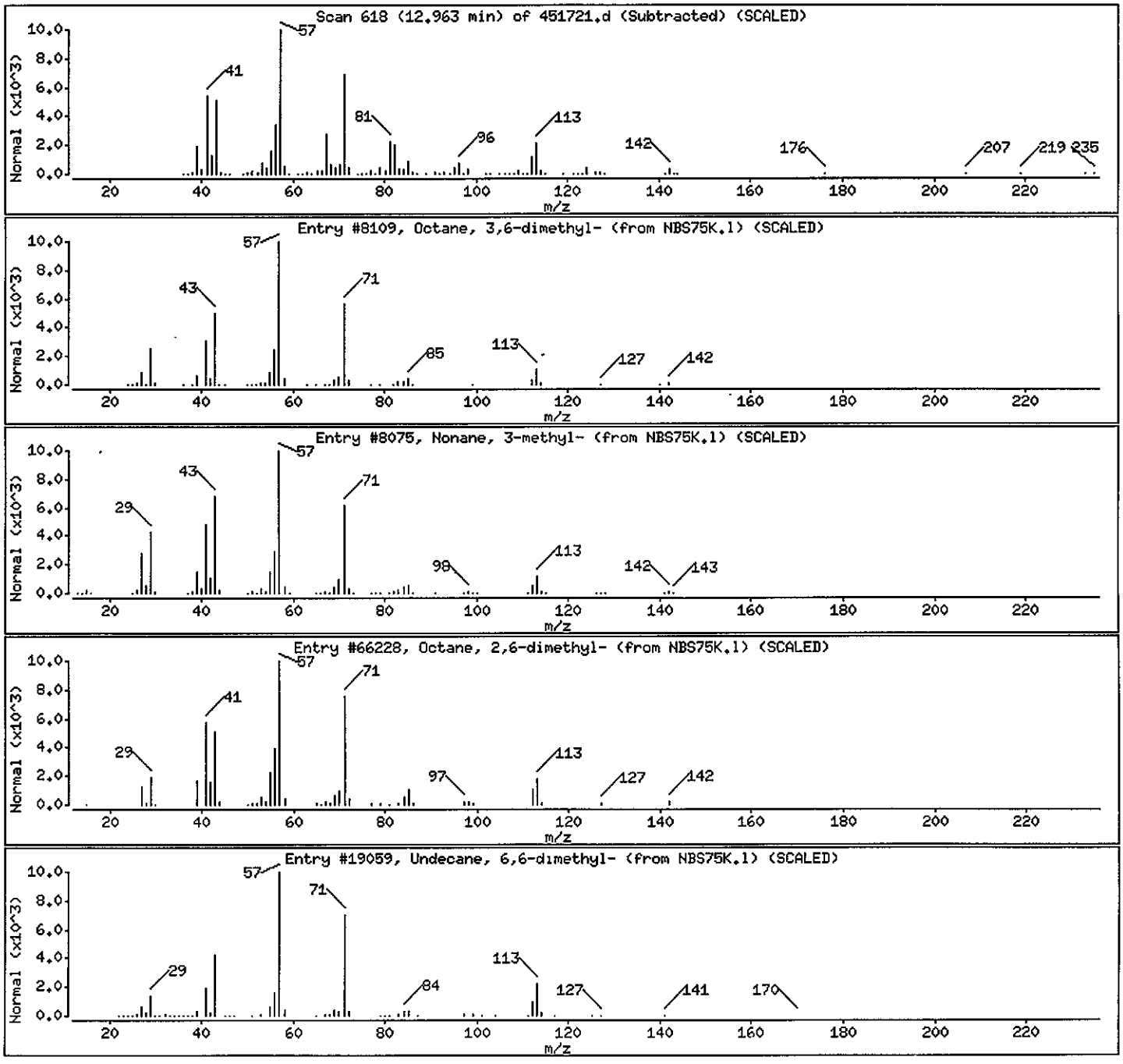
Client ID: 029SVEEA04260111 Instrument: W.i

Sample Info: 451721;029SVEEA04260111;82724;0508C2

Purge Volume: 200.0 Operator: GMM

Column phase: DB-1 Column diameter: 0.35

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown aliphatic compound						
Octane, 3,6-dimethyl-	15869-94-0	NBS75K.l	8109	64	C10H22	142
Nonane, 3-methyl-	5911-04-6	NBS75K.l	8075	58	C10H22	142
Octane, 2,6-dimethyl-	2051-30-1	NBS75K.l	66228	53	C10H22	142
Undecane, 6,6-dimethyl-	17312-76-4	NBS75K.l	19059	47	C13H28	184



Data File: /chem/W.i/Wsvr.p/wckto14.b/451721.d

Date : 08-MAY-2001 20:07

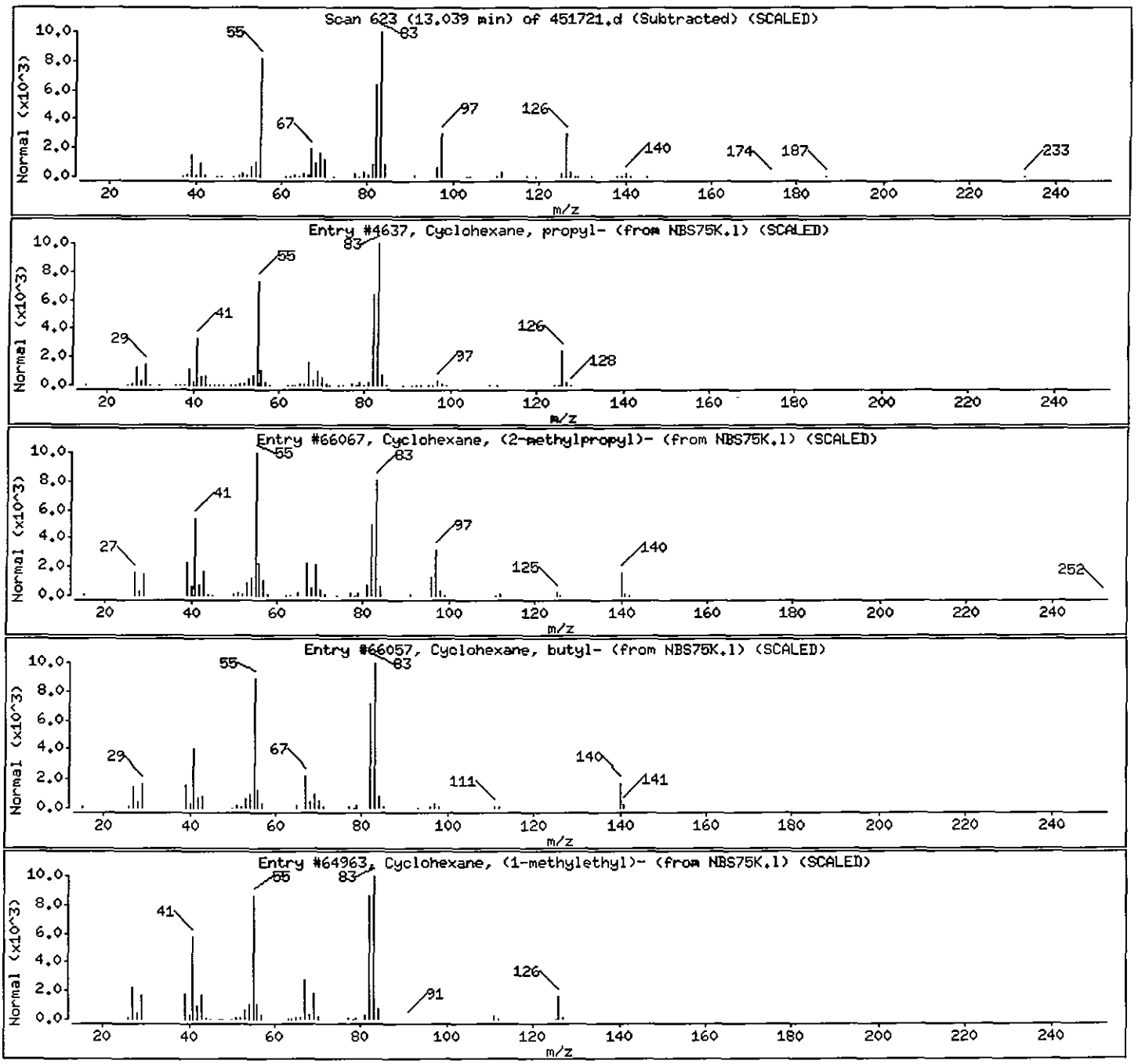
Client ID: 029SVEEA04260111 Instrument: W.i

Sample Info: 451721;029SVEEA04260111;82724;0508C2

Purge Volume: 200.0 Operator: GMM

Column phase: DB-1 Column diameter: 0.35

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown alkylcyclohexane						
Cyclohexane, propyl-	1678-92-8	NBS75K.l	4637	83	C9H18	126
Cyclohexane, (2-methylpropyl)-	1678-98-4	NBS75K.l	66067	81	C10H20	140
Cyclohexane, butyl-	1678-93-9	NBS75K.l	66057	64	C10H20	140
Cyclohexane, (1-methylethyl)-	696-29-7	NBS75K.l	64963	64	C9H18	126



Data File: /chem/W.i/Wsvr.p/wckto14.b/451721.d

Date : 08-MAY-2001 20:07

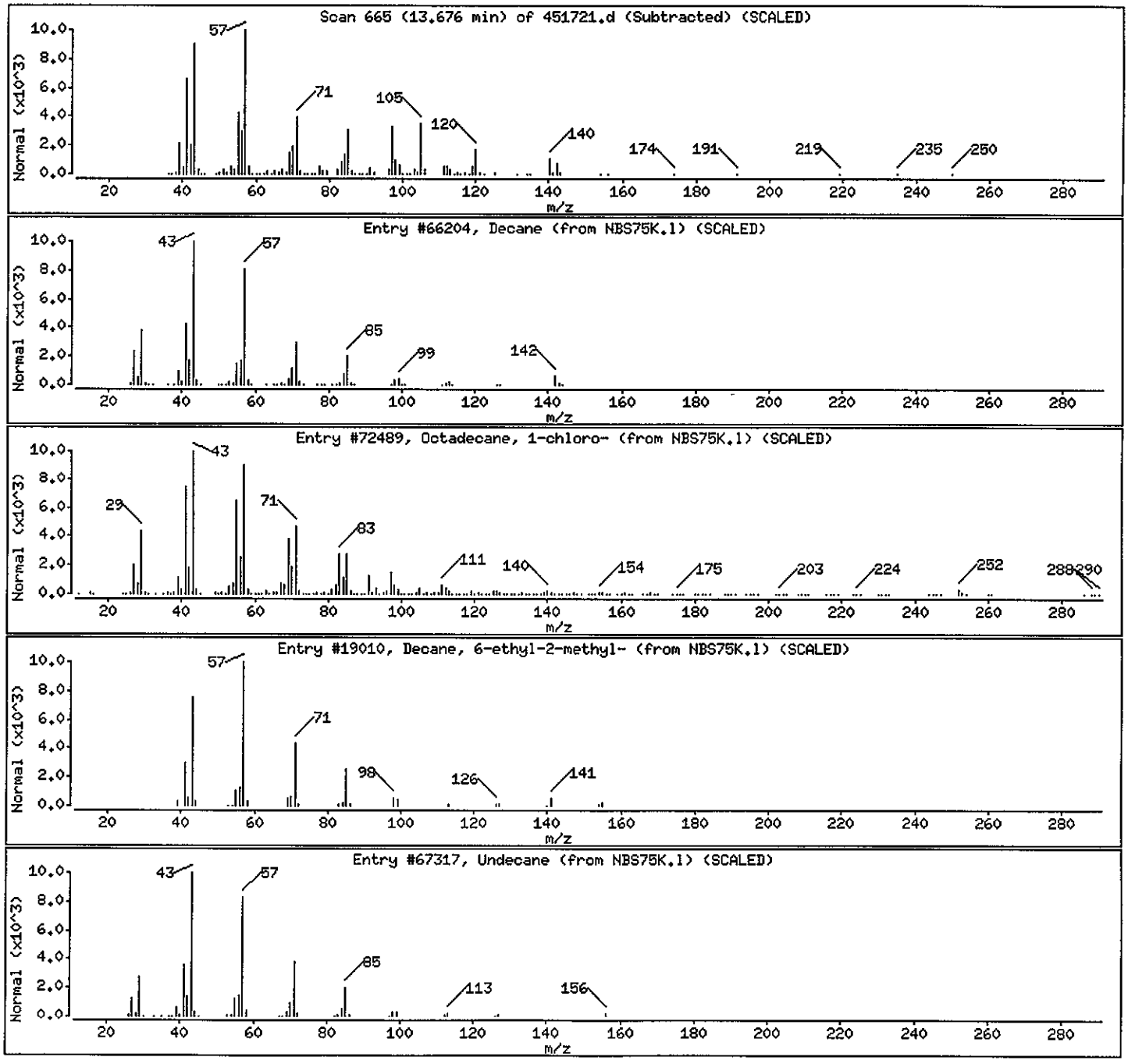
Client ID: 029SVEEA04260111 Instrument: W.i

Sample Info: 451721;029SVEEA04260111;82724;0508C2

Purge Volume: 200.0 Operator: GMM

Column phase: DB-1 Column diameter: 0.35

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown aliphatic compound						
Decane	124-18-5	NBS75K.l	66204	60	C10H22	142
Octadecane, 1-chloro-	3386-33-2	NBS75K.l	72489	58	C18H37Cl	288
Decane, 6-ethyl-2-methyl-	62108-21-8	NBS75K.l	19010	43	C13H28	184
Undecane	1120-21-4	NBS75K.l	67317	43	C11H24	156



Data File: /chem/W.i/Wsvr.p/wckto14.b/451721.d

Date : 08-MAY-2001 20:07

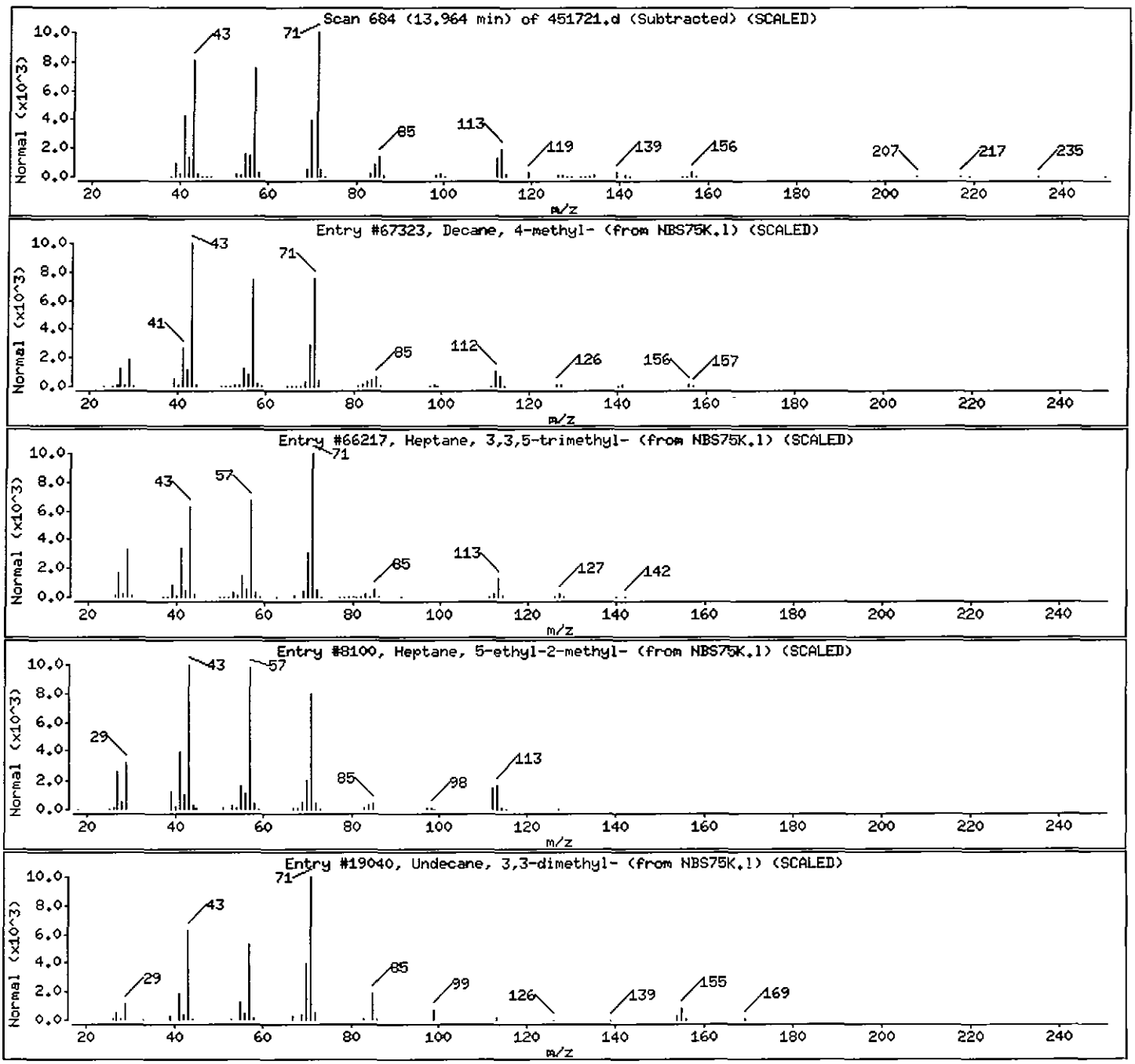
Client ID: 029SVEEA04260111 Instrument: W.i

Sample Info: 451721;029SVEEA04260111;82724;0508C2

Purge Volume: 200.0 Operator: CMM

Column phase: DB-1 Column diameter: 0.35

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown aliphatic compound						
Decane, 4-methyl-	2847-72-5	NBS75K.l	67323	80	C11H24	156
Heptane, 3,3,5-trimethyl-	7154-80-5	NBS75K.l	66217	78	C10H22	142
Heptane, 5-ethyl-2-methyl-	13475-78-0	NBS75K.l	8100	64	C10H22	142
Undecane, 3,3-dimethyl-	17312-65-1	NBS75K.l	19040	64	C13H28	184



Data File: /chem/W.i/Wsvr.p/wckto14.b/451721.d

Date : 08-MAY-2001 20:07

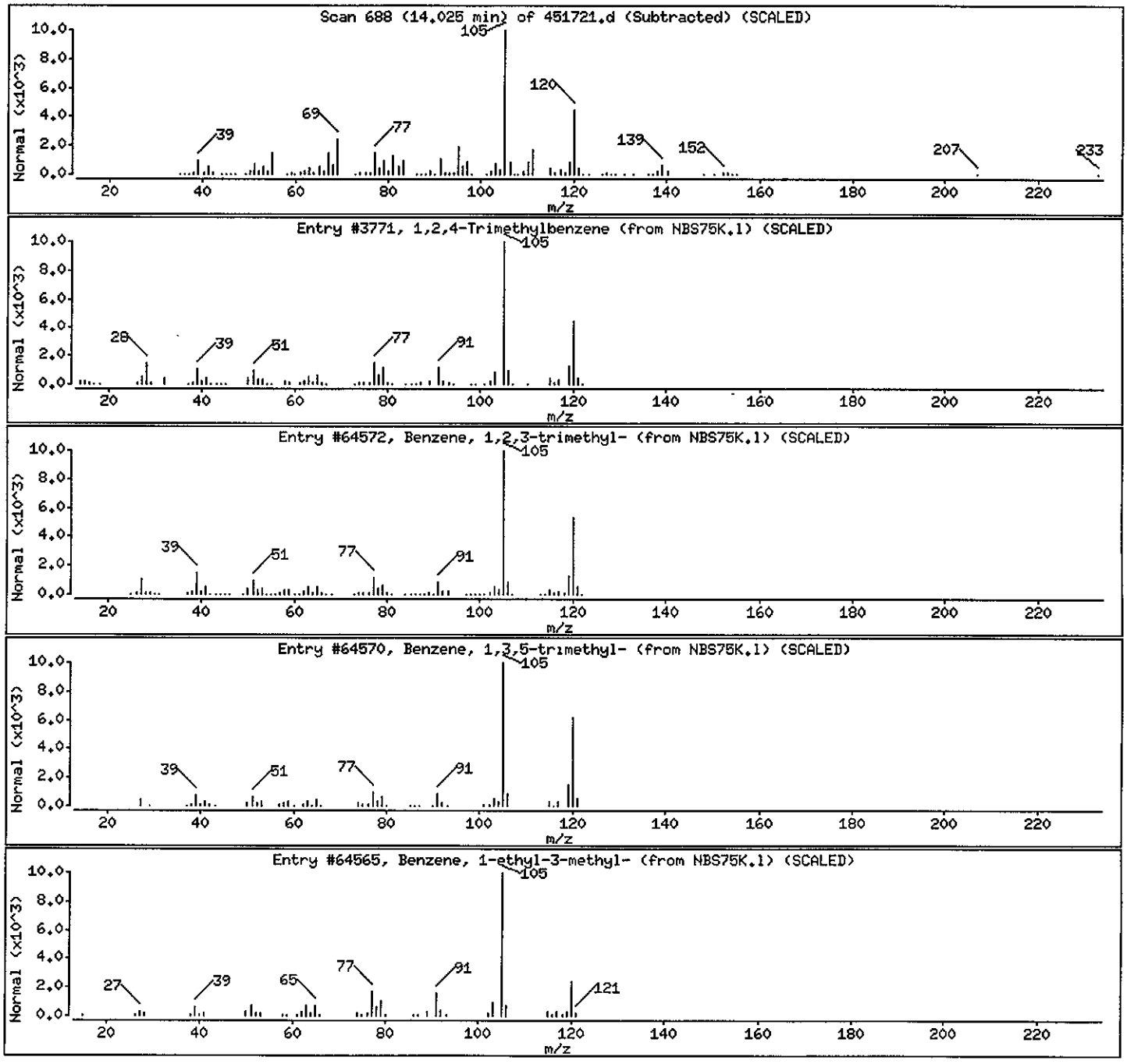
Client ID: 029SVEEA04260111 Instrument: W.i

Sample Info: 451721;029SVEEA04260111;82724;0508C2

Purge Volume: 200.0 Operator: GMM

Column phase: DB-1 Column diameter: 0.35

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown C3-alkylbenzene						
1,2,4-Trimethylbenzene	95-36-3	NBS75K.l	3771	92	C9H12	120
Benzene, 1,2,3-trimethyl-	526-73-8	NBS75K.l	64572	92	C9H12	120
Benzene, 1,3,5-trimethyl-	108-67-8	NBS75K.l	64570	91	C9H12	120
Benzene, 1-ethyl-3-methyl-	620-14-4	NBS75K.l	64565	83	C9H12	120



Data File: /chem/W.i/Wsvr.p/wckto14.b/451721.d

Date : 08-MAY-2001 20:07

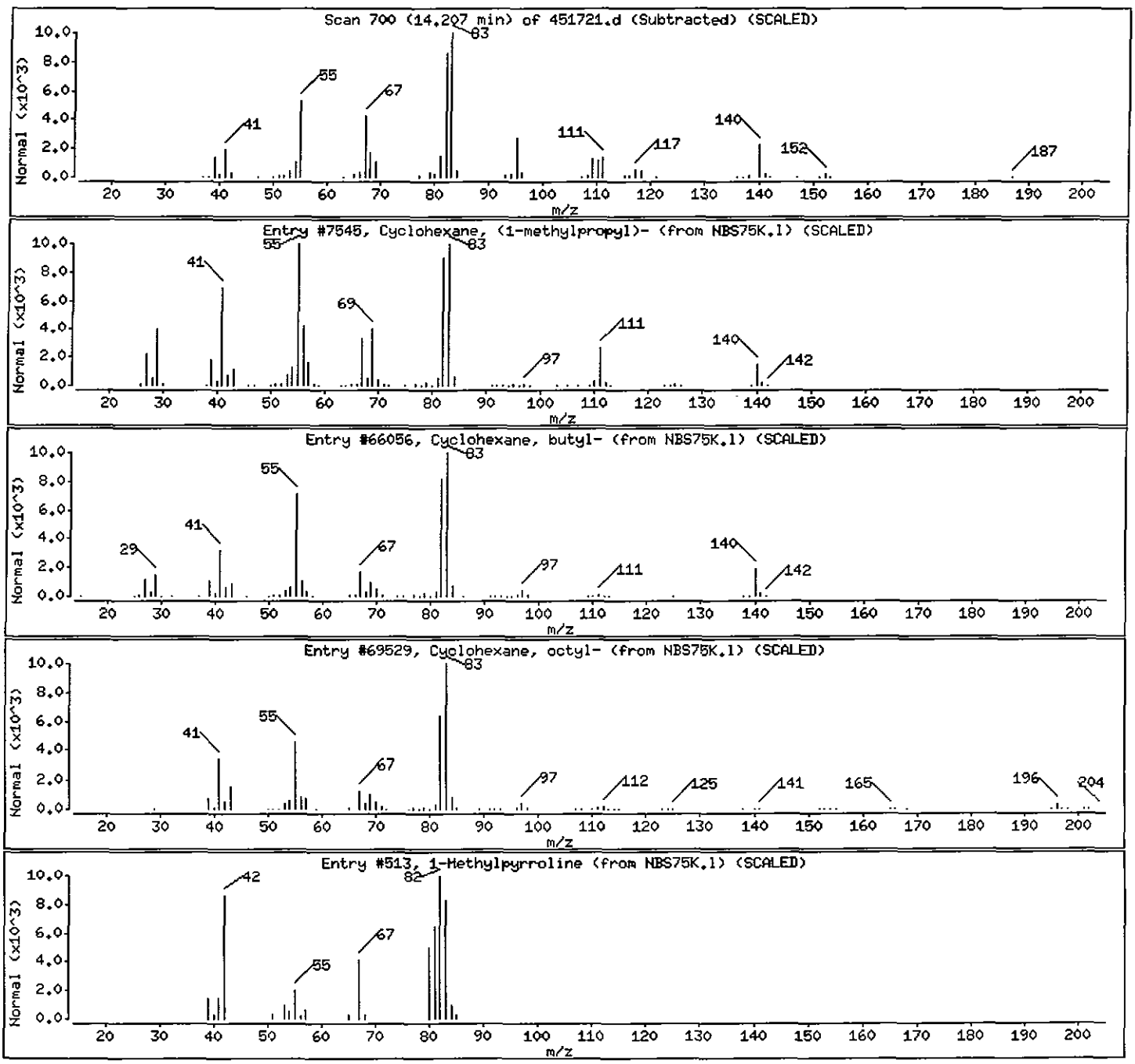
Client ID: 029SVEEA04260111 Instrument: W.i

Sample Info: 451721;029SVEEA04260111;82724;0508C2

Purge Volume: 200.0 Operator: GMM

Column phase: DB-1 Column diameter: 0.35

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown alkylcyclohexane						
Cyclohexane, (1-methylpropyl)-	7058-01-7	NBS75K.l	7545	53	C10H20	140
Cyclohexane, butyl-	1678-93-9	NBS75K.l	66056	52	C10H20	140
Cyclohexane, octyl-	1795-15-9	NBS75K.l	69529	38	C14H28	196
1-Methylpyrroline	0-00-0	NBS75K.l	513	36	C5H9N	83



Data File: /chem/W.i/Wsvr.p/wckto14.b/451721.d

Date : 08-MAY-2001 20:07

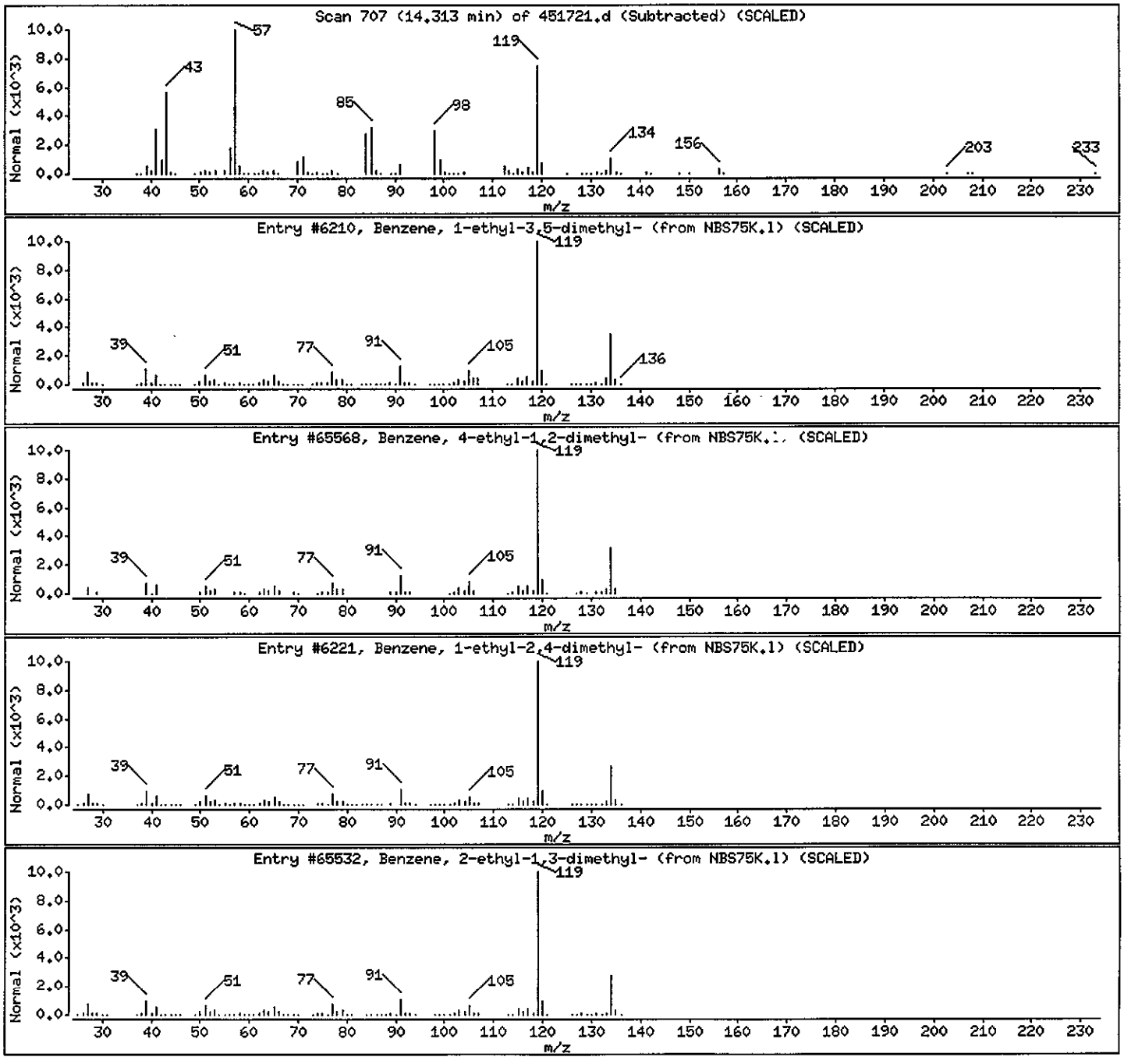
Client ID: 029SVEEA04260111 Instrument: W.i

Sample Info: 451721;029SVEEA04260111;82724;0508C2

Purge Volume: 200.0 Operator: GMM

Column phase: DB-1 Column diameter: 0.35

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown C4-alkylbenzene						
Benzene, 1-ethyl-3,5-dimethyl-	934-74-7	NBS75K.l	6210	45	C10H14	134
Benzene, 4-ethyl-1,2-dimethyl-	934-80-5	NBS75K.l	65568	43	C10H14	134
Benzene, 1-ethyl-2,4-dimethyl-	874-41-9	NBS75K.l	6221	43	C10H14	134
Benzene, 2-ethyl-1,3-dimethyl-	2870-04-4	NBS75K.l	65532	43	C10H14	134



Data File: /Chem/W.i/Wsvr.p/wckto14.b/451721.d

Date : 08-MAY-2001 20:07

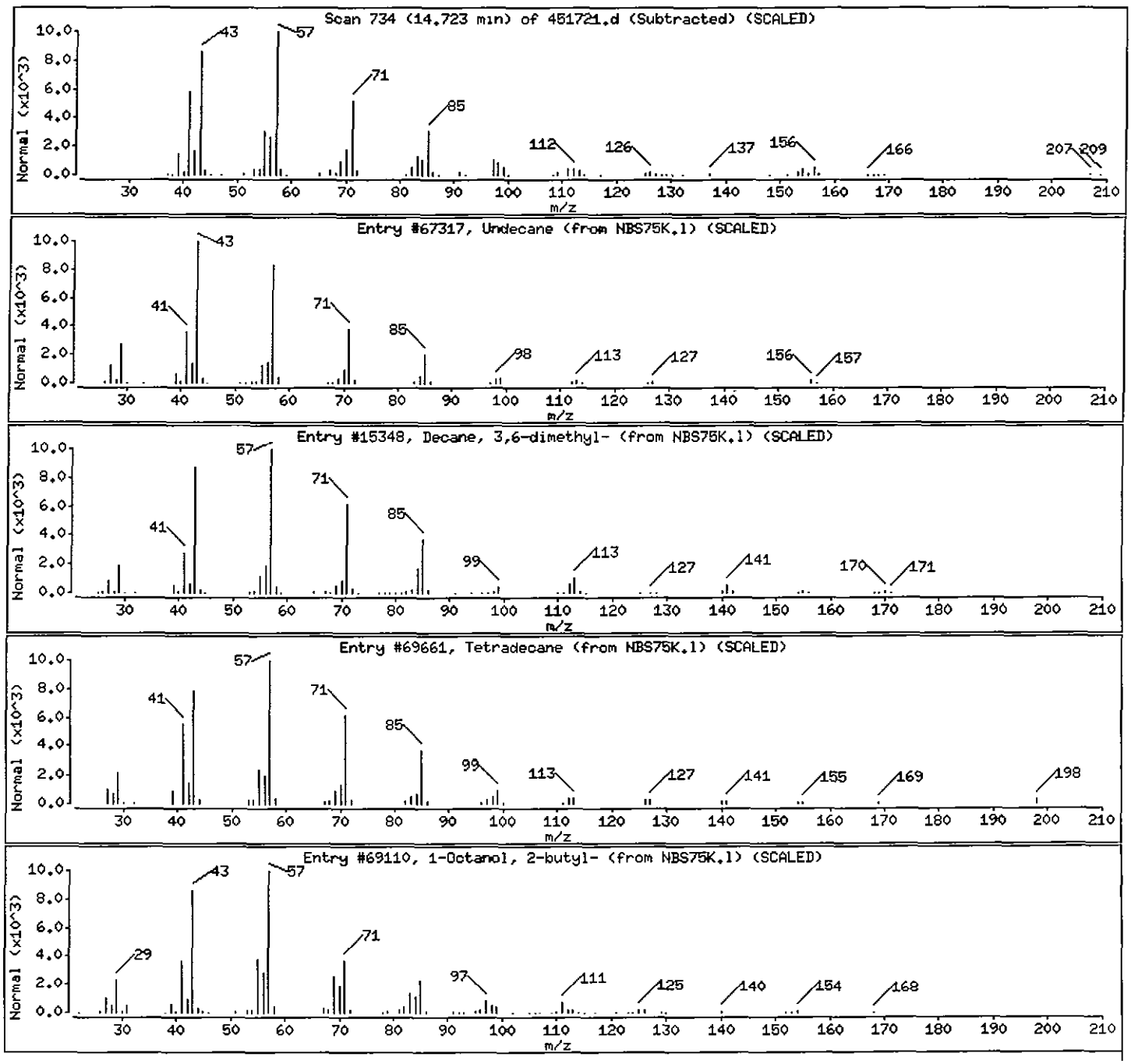
Client ID: 029SVEEA04260111 Instrument: W.i

Sample Info: 451721;029SVEEA04260111;82724;0508C2

Purge Volume: 200.0 Operator: GMH

Column phase: DB-1 Column diameter: 0.35

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown aliphatic compound						
Undecane	1120-21-4	NBS75K.l	67317	81	C11H24	156
Decane, 3,6-dimethyl-	17312-53-7	NBS75K.l	15348	59	C12H26	170
Tetradecane	629-59-4	NBS75K.l	69661	59	C14H30	198
1-Octanol, 2-butyl-	3913-02-8	NBS75K.l	69110	58	C12H26O	186



Data File: /chem/W.i/Wsvr.p/wckto14.b/451721.d

Date : 08-MAY-2001 20:07

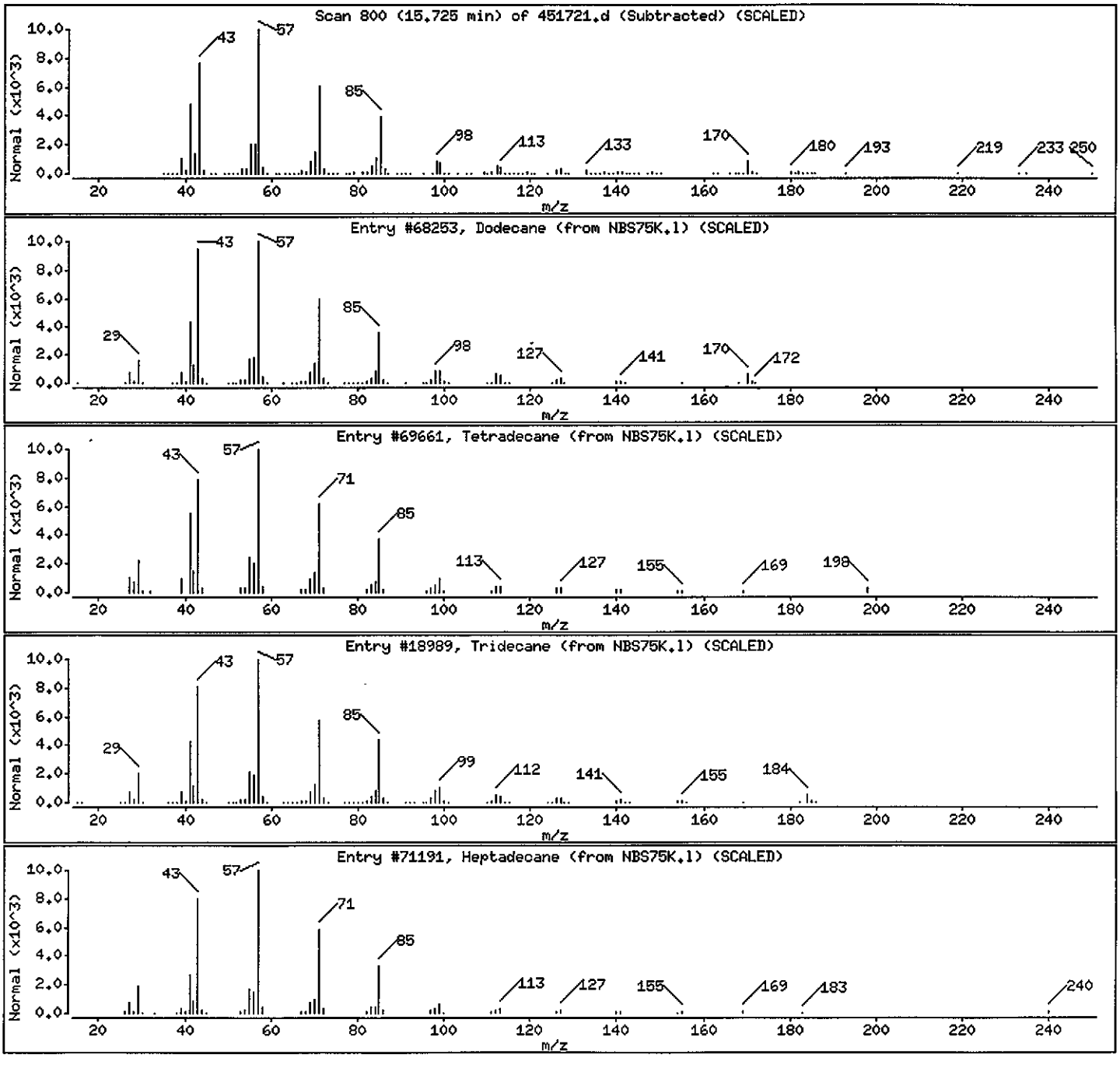
Client ID: 029SVEEA04260111 Instrument: W.i

Sample Info: 451721;029SVEEA04260111;82724;0508C2

Purge Volume: 200.0 Operator: CHM

Column phase: DB-1 Column diameter: 0.35

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown aliphatic compound						
Dodecane	112-40-3	NBS75K.l	68253	96	C12H26	170
Tetradecane	629-59-4	NBS75K.l	69661	91	C14H30	198
Tridecane	629-50-5	NBS75K.l	18989	91	C13H28	184
Heptadecane	629-78-7	NBS75K.l	71191	86	C17H36	240



SEVERN TRENT SERVICES

Severn Trent Laboratories, Inc.

METHOD TO-14A
VOLATILE ORGANIC ANALYSIS

STANDARDS

6A

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 82724

Instrument ID: W Calibration Date(s): 05/08/01 05/08/01

Heated Purge: (Y/N) N Calibration Time(s): 0856 1118

GC Column: DB-1 ID: 0.35 (mm)

LAB FILE ID: RRF0.5=CK0005 RRF5 =CK005
RRF10 =CK010 RRF20 =CK020 RRF40 =CK040

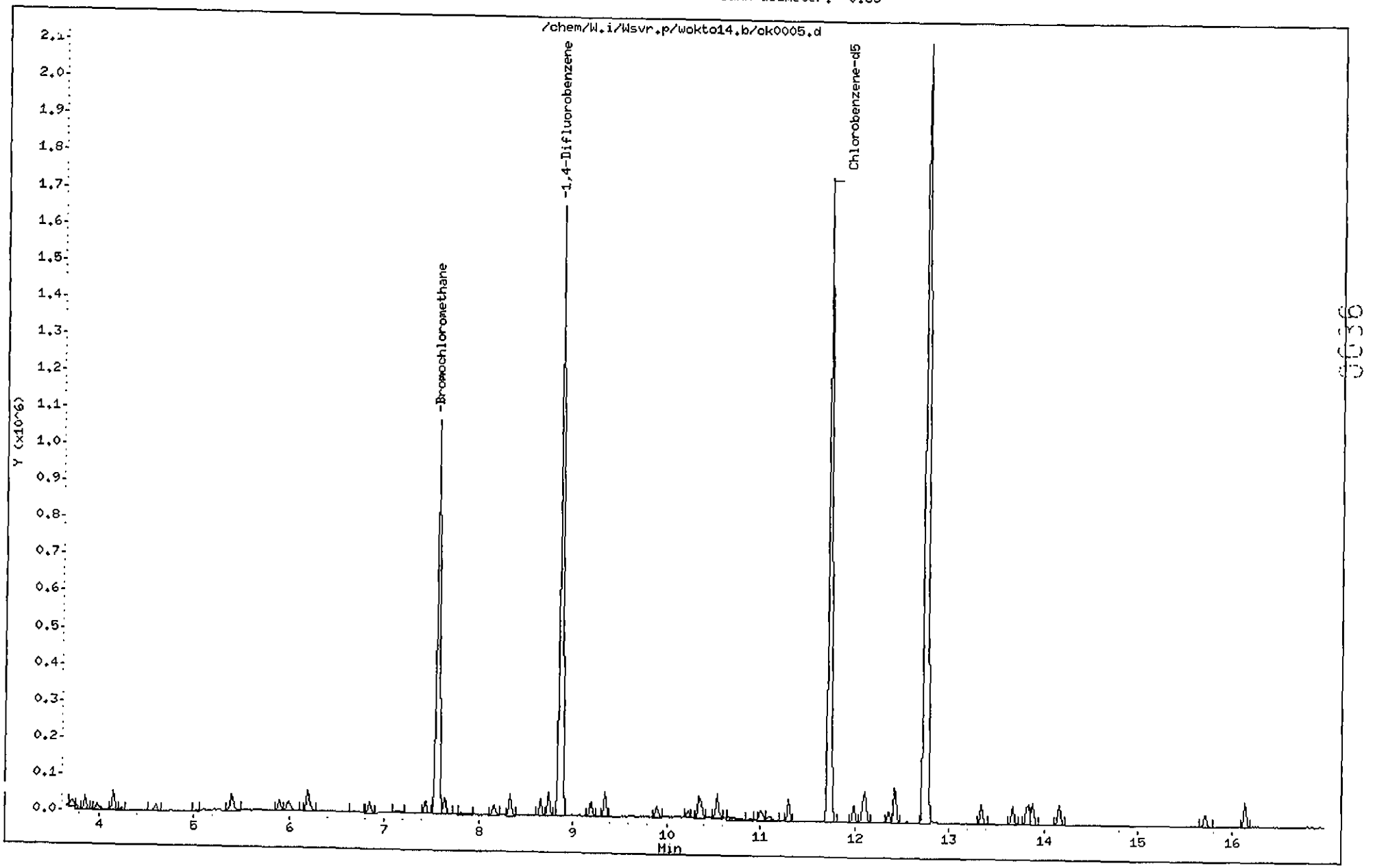
COMPOUND		RRF0.5	RRF5	RRF10	RRF20	RRF40	$\overline{RRF}$	% RSD	
Chloromethane	*	0.487	0.526	0.500	0.378	0.316	0.441	20.4	*
Vinyl Chloride		0.490	0.521	0.545	0.412	0.356	0.465	16.9	
Bromomethane		0.710	0.733	0.668	0.562	0.506	0.636	15.4	
Chloroethane		0.357	0.334	0.306	0.256	0.241	0.299	16.6	
Trichlorofluoromethane		2.798	2.964	2.621	2.425	2.219	2.605	11.3	
Methylene Chloride		1.251	0.989	0.854	0.777	0.718	0.918	23.1	
1,1-Dichloroethane	*	1.607	1.703	1.482	1.370	1.285	1.489	11.4	*
cis-1,2-Dichloroethene		1.259	1.334	1.163	1.063	1.006	1.165	11.6	
Chloroform		2.387	2.472	2.193	2.052	1.952	2.211	9.9	
1,1,1-Trichloroethane		2.328	2.633	2.257	2.179	2.087	2.297	9.1	
Carbon Tetrachloride		0.544	0.601	0.531	0.485	0.468	0.526	10.0	
Benzene		0.604	0.617	0.542	0.488	0.479	0.546	11.7	
1,2-Dichloroethane		1.600	1.821	1.582	1.535	1.478	1.603	8.2	
Trichloroethene		0.304	0.342	0.301	0.271	0.248	0.293	12.2	
1,2-Dichloropropane		0.201	0.208	0.195	0.166	0.164	0.187	10.9	
cis-1,3-Dichloropropene		0.293	0.300	0.284	0.255	0.272	0.281	6.3	
Toluene		0.540	0.606	0.415	0.316	0.301	0.436	30.9	
trans-1,3-Dichloropropene		0.201	0.198	0.191	0.176	0.209	0.195	6.4	
1,1,2-Trichloroethane		0.264	0.248	0.238	0.194	0.188	0.226	14.9	
Tetrachloroethene		0.312	0.350	0.362	0.329	0.322	0.335	6.2	
Chlorobenzene	*	0.618	0.624	0.558	0.507	0.494	0.560	10.8	*
Ethylbenzene		0.779	1.098	0.930	0.839	0.782	0.886	15.1	
Xylene (total)		0.291	0.417	0.399	0.282	0.354	0.349	17.5	
Styrene		0.342	0.529	0.528	0.387	0.500	0.457	19.0	
Xylene (m,p)		0.296	0.401	0.376	0.353	0.357	0.357	10.9	
Xylene (o)		0.291	0.417	0.399	0.282	0.354	0.349	17.5	
1,1,2,2-Tetrachloroethane		0.651	0.733	0.585	0.421	0.471	0.572	22.3	
1,3-Dichlorobenzene		0.532	0.669	0.409	0.466	0.539	0.523	18.6	
1,4-Dichlorobenzene		0.682	0.655	0.430	0.541	0.564	0.574	17.5	
1,2-Dichlorobenzene		0.541	0.586	0.368	0.428	0.478	0.480	18.1	

* Compounds with required minimum RRF and maximim %RSD values.
All other compounds must meet a minimim RRF of 0.010.

Data File: /chem/W.1/Wsvr.p/wckto14.b/ck0005.d
Date : 08-MAY-2001 08:56
Client ID: ASTD0005
Sample Info: ASTD0005;ASTD0005
Purge Volume: 200.0
Column phase: DB-1

Instrument: W.1

Operator: GMM
Column diameter: 0.35



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AIR TOXICS QUANTITATION REPORT

Data file : /chem/W.i/Wsvr.p/wckto14.b/ck0005.d
Lab Smp Id: ASTD0005 Client Smp ID: ASTD0005
Inj Date : 08-MAY-2001 08:56
Operator : GMM Inst ID: W.i
Smp Info : ASTD0005;ASTD0005
Misc Info :
Comment :
Method : /chem/W.i/Wsvr.p/wckto14.b/bto14a.m
Meth Date : 10-May-2001 11:08 mim Quant Type: ISTD
Cal Date : 08-MAY-2001 08:56 Cal File: ck0005.d
Als bottle: 2 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50
Processing Host: chemsvr4

Concentration Formula: Amt * DF * X* Uf/Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
X	200.00000	method volume factor
Uf	1.00000	ng unit correction factor
Vo	200.00000	Sample Volume purged (mL)

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	AMOUNTS ON-COL (ppbv)
	1 Dichlorodifluoromethane	85	3.853	3 912	(0.510)	38605	0.50000	0.50
	2 Chloromethane	50	4.012	4.056	(0.531)	7346	0.50000	0.50
	3 Dichlorotetrafluoroethane	85	4.142	4.157	(0.548)	33536	0.50000	0.50
	4 Vinyl Chloride	62	4.243	4.258	(0.561)	7400	0.50000	0.50
	5 Bromomethane	94	4.603	4.604	(0.609)	10712	0.50000	0.50
	6 Chloroethane	64	4.762	4.748	(0.630)	5389	0.50000	0.50
	7 Trichlorofluoromethane	101	5 391	5.346	(0.713)	42230	0.50000	0.50
	8 1,1-Dichloroethene	96	5.891	5.831	(0.779)	11366	0.50000	0.50
	9 Methylene Chloride	49	5.998	5.907	(0.793)	18879	0.50000	0.50
	10 Freon TF	101	6.195	6.104	(0.819)	29902	0.50000	0.50
	11 1,1-Dichloroethane	63	6.848	6.742	(0.906)	24255	0.50000	0.50
	12 cis-1,2-Dichloroethene	61	7.439	7.319	(0.984)	18999	0.50000	0.50
*	13 Bromochloromethane	128	7 561	7.440	(1.000)	301890	10.0000	
	14 Chloroform	83	7.637	7 516	(1.010)	36036	0.50000	0.50

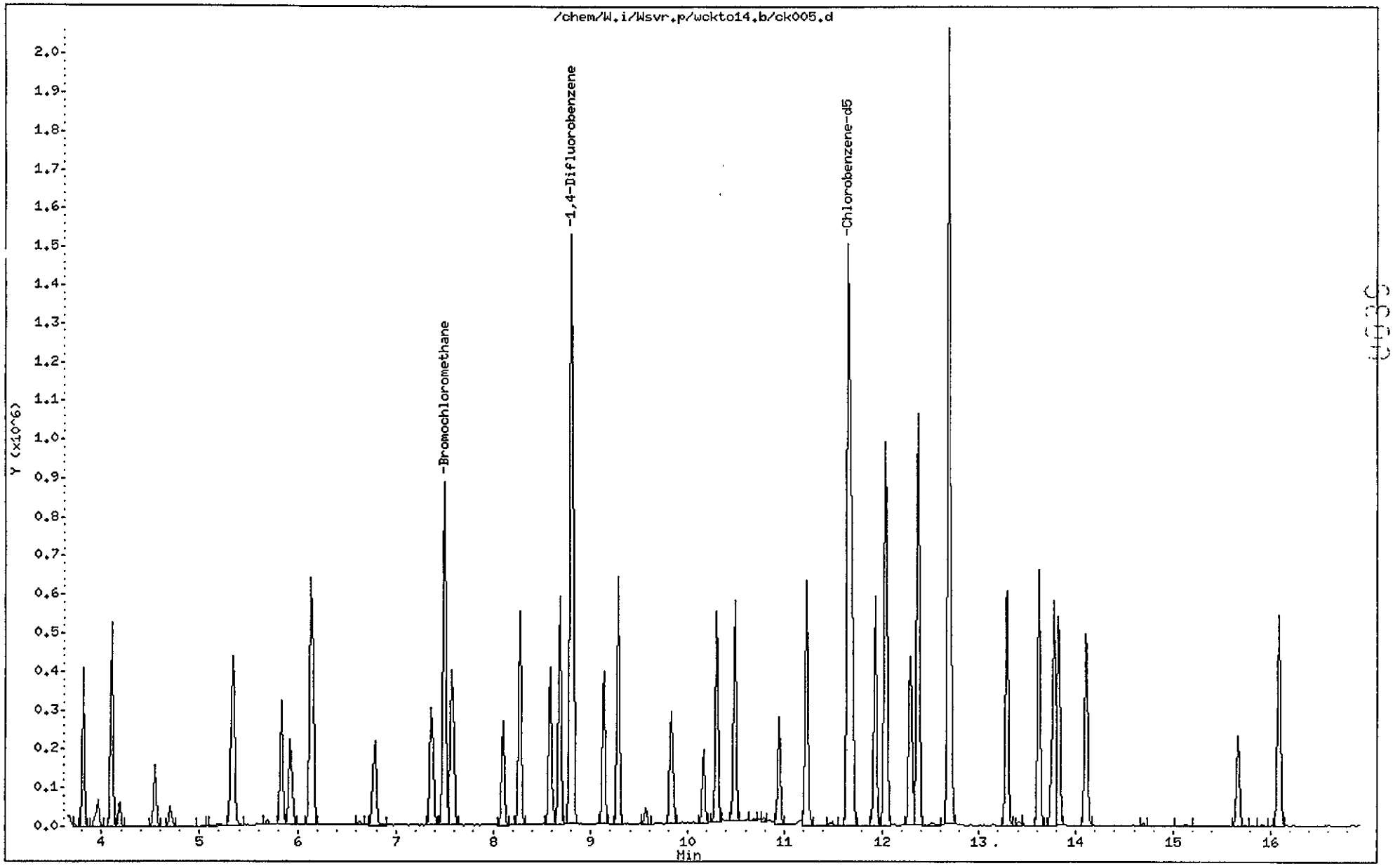
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	ON-COL (ppbv)
	15 1,2-Dichloroethane	62	8.168	8.032	(1.080)	24156	0.50000	0.50
	16 1,1,1-Trichloroethane	97	8.335	8.214	(1.102)	35140	0.50000	0.50
	17 Benzene	78	8.653	8.533	(0.976)	39653	0.50000	0.50
	18 Carbon Tetrachloride	117	8.744	8.639	(0.986)	35742	0.50000	0.50
*	19 1,4-Difluorobenzene	114	8.866	8.745	(1.000)	1313785	10.0000	
	20 1,2-Dichloropropane	63	9.200	9.079	(1.038)	13211	0.50000	0.50
	21 Trichloroethene	95	9.336	9.231	(1.053)	19946	0.50000	0.50
	22 cis-1,3-Dichloropropene	75	9.898	9.777	(1.116)	19226	0.50000	0.50
	23 trans-1,3-Dichloropropene	75	10.232	10.111	(1.154)	13235	0.50000	0.50
	24 1,1,2-Trichloroethane	83	10.353	10.247	(1.168)	17379	0.50000	0 50
	25 Toluene	92	10.550	10.445	(0.900)	28189	0.50000	0.50
	26 1,2-Dibromoethane	107	11.006	10.900	(0.939)	18377	0.50000	0.50
	27 Tetrachloroethene	166	11.294	11.188	(0.964)	16317	0.50000	0.50
*	28 Chlorobenzene-d5	117	11.719	11.613	(1.000)	1044893	10.0000	
	29 Chlorobenzene	112	11.749	11.644	(1.003)	32274	0.50000	0.50(Q)
	30 Ethylbenzene	91	11.992	11.871	(1.023)	40680	0.50000	0.50
	31 Xylene (m,p)	106	12.098	11.993	(1.032)	30925	1.00000	1.0(Q)
	32 Styrene	104	12.356	12.235	(1.054)	17897	0.50000	0.50
M	33 Xylene (total)	106				46154	0.50000	1.5
	34 1,1,2,2-Tetrachloroethane	83	12.417	12.311	(1.060)	34029	0.50000	0.50
	35 Xylene (o)	106	12.432	12.311	(1.061)	15229	0.50000	0 50(Q)
	36 1,3,5-Trimethylbenzene	105	13.343	13.252	(1.139)	33808	0.50000	0.50
	37 1,2,4-Trimethylbenzene	105	13.677	13 586	(1.167)	35590	0 50000	0.50
	38 1,3-Dichlorobenzene	146	13.828	13.738	(1.180)	27797	0.50000	0.50(H)
	39 1,4-Dichlorobenzene	146	13.874	13.799	(1.184)	35644	0.50000	0.50
	40 1,2-Dichlorobenzene	146	14.162	14.087	(1 208)	28257	0.50000	0 50
	41 1,2,4-Trichlorobenzene	180	15.725	15.650	(1.342)	14844	0.50000	0.50
	42 Hexachlorobutadiene	225	16.150	16.075	(1.378)	13628	0.50000	0.50

QC Flag Legend

Q - Qualifier signal failed the ratio test.
H - Operator selected an alternate compound hit.

Data File: /chem/W.i/Wsvr.p/wckto14.b/ck005.d
Date : 08-MAY-2001 09:31
Client ID: ASTD005
Sample Info: ASTD005;ASTD005
Purge Volume: 200.0
Column phase: DB-1

Instrument: W.i
Operator: GMM
Column diameter: 0.35



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AIR TOXICS QUANTITATION REPORT

Data file : /chem/W.i/Wsvr.p/wckto14.b/ck005.d
Lab Smp Id: ASTD005 Client Smp ID: ASTD005
Inj Date : 08-MAY-2001 09:31
Operator : GMM Inst ID: W.i
Smp Info : ASTD005;ASTD005
Misc Info :
Comment :
Method : /chem/W.i/Wsvr.p/wckto14.b/bto14a.m
Meth Date : 10-May-2001 11:08 mim Quant Type: ISTD
Cal Date : 08-MAY-2001 09:31 Cal File: ck005.d
Als bottle: 3 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50
Processing Host: chemsvr4

Concentration Formula: Amt * DF * X* Uf/Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
X	200.00000	method volume factor
Uf	1.00000	ng unit correction factor
Vo	200.00000	Sample Volume purged (mL)

Cpnd Variable Local Compound Variable

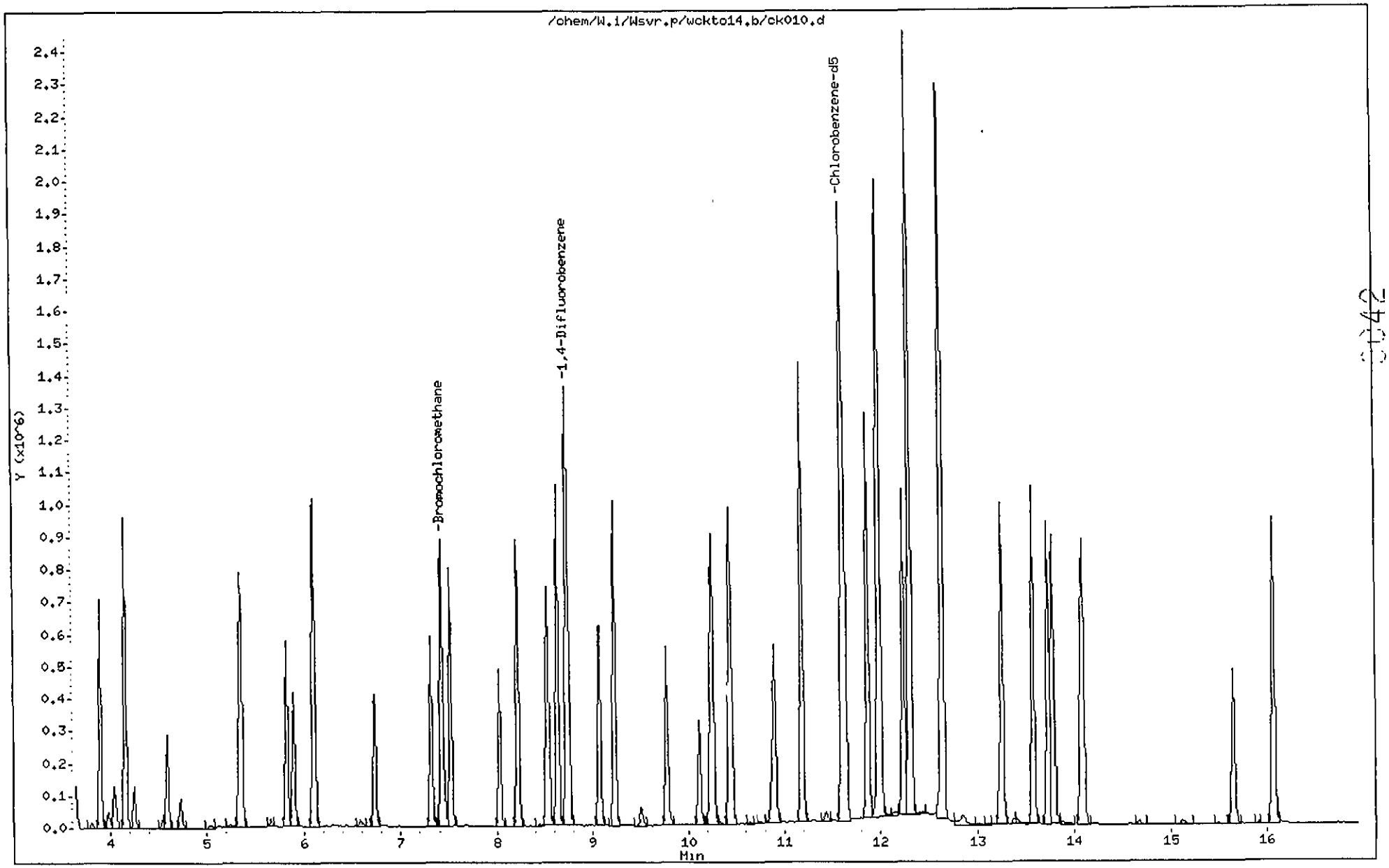
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	AMOUNTS ON-COL (ppbv)
1	Dichlorodifluoromethane	85	3.813	3.912	(0.508)	338700	5.00000	5.0
2	Chloromethane	50	3.972	4.056	(0.530)	69169	5.00000	5.2
3	Dichlorotetrafluoroethane	85	4.101	4.157	0.547)	306680	5.00000	5.1
4	Vinyl Chloride	62	4.188	4.258	(0.558)	68496	5.00000	5.2
5	Bromomethane	94	4.545	4.604	0.606)	96408	5.00000	5.1
6	Chloroethane	64	4.707	4.748	(0.628)	43846	5.00000	4.8
7	Trichlorofluoromethane	101	5.329	5.346	(0.711	389626	5.00000	5.1
8	1,1-Dichloroethene	96	5.830	5.831	(0.777)	110003	5.00000	5.3
9	Methylene Chloride	49	5.921	5.907	(0.790)	130013	5.00000	4.4
10	Freon TF	101	6.134	6.104	(0.818)	289248	5.00000	5.3
11	1,1-Dichloroethane	63	6.786	6.742	(0.905.	223840	5.00000	5.1
12	cis-1,2-Dichloroethene	61	7.363	7.319	(0.982/	175396	5.00000	5.1
* 13	Bromochloromethane	128	7.500	7.440	(1.000/	262928	10.0000	
14	Chloroform	83	7.575	7.516	(1.010)	325026	5.00000	5.1

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	AMOUNTS ON-COL (ppbv)
	15 1,2-Dichloroethane	62	8.107	8.032	(1.081)	239417	5.00000	5.3
	16 1,1,1-Trichloroethane	97	8.273	8.214	(1.103)	346183	5.00000	5.3
	17 Benzene	78	8.592	8.533	(0.976)	366696	5.00000	5.0
	18 Carbon Tetrachloride	117	8.683	8.639	(0.986)	357125	5.00000	5.2
*	19 1,4-Difluorobenzene	114	8.805	8.745	(1.000)	1188181	10.0000	
	20 1,2-Dichloropropane	63	9.138	9.079	(1.038)	123353	5.00000	5.1
	21 Trichloroethene	95	9.275	9.231	(1.053)	203401	5.00000	5.3
	22 cis-1,3-Dichloropropene	75	9.837	9.777	(1.117)	178410	5.00000	5.1
	23 trans-1,3-Dichloropropene	75	10.170	10.111	(1.155)	117463	5.00000	5.0
	24 1,1,2-Trichloroethane	83	10.292	10.247	(1.169)	147148	5.00000	4.8
	25 Toluene	92	10.489	10.445	(0.900)	277067	5.00000	5.3
	26 1,2-Dibromoethane	107	10.944	10.900	(0.939)	196713	5.00000	5.5
	27 Tetrachloroethene	166	11.233	11.188	(0.964)	160402	5.00000	5.3
*	28 Chlorobenzene-d5	117	11.658	11.613	(1.000)	915038	10.0000	
	29 Chlorobenzene	112	11.688	11.644	(1.003)	285271	5.00000	5.0
	30 Ethylbenzene	91	11.931	11.871	(1.023)	502562	5.00000	5.8
	31 Xylene (m,p)	106	12.037	11.993	(1.033)	367103	10.0000	12
	32 Styrene	104	12.295	12.235	(1.055)	242230	5.00000	6.1
M	33 Xylene (total)	106				557812	5.00000	17
	34 1,1,2,2-Tetrachloroethane	83	12.356	12.311	(1.060)	335214	5.00000	5.3
	35 Xylene (o)	106	12.371	12.311	(1.061)	190709	5.00000	5.9
	36 1,3,5-Trimethylbenzene	105	13.297	13.252	(1.141)	425122	5.00000	5.9
	37 1,2,4-Trimethylbenzene	105	13.615	13.586	(1.168)	422468	5.00000	5.8
	38 1,3-Dichlorobenzene	146	13.767	13.738	(1.181)	306293	5.00000	5.6
	39 1,4-Dichlorobenzene	146	13.828	13.799	(1.186)	299894	5.00000	4.9
	40 1,2-Dichlorobenzene	146	14.116	14.087	(1.211)	268038	5.00000	5.2
	41 1,2,4-Trichlorobenzene	180	15.664	15.650	(1.344)	86769	5.00000	4.0
	42 Hexachlorobutadiene	225	16.089	16.075	(1.380)	107155	5.00000	4.7

Data File: /chem/W.i/Wsvr.p/wckto14.b/ck010.d
Date : 08-MAY-2001 10:08
Client ID: ASTD010
Sample Info: ASTD010;ASTD010
Purge Volume: 200.0
Column phase: DB-1

Instrument: W.i

Operator: GMM
Column diameter: 0.35



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AIR TOXICS QUANTITATION REPORT

Data file : /chem/W.i/Wsvr.p/wckto14.b/ck010.d
Lab Smp Id: ASTD010 Client Smp ID: ASTD010
Inj Date : 08-MAY-2001 10:08
Operator : GMM Inst ID: W.i
Smp Info : ASTD010;ASTD010
Misc Info :
Comment :
Method : /chem/W.i/Wsvr.p/wckto14.b/bto14a.m
Meth Date : 10-May-2001 11:09 mim Quant Type: ISTD
Cal Date : 08-MAY-2001 10:08 Cal File: ck010.d
Als bottle: 4 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50
Processing Host: chemsvr4

Concentration Formula: Amt * DF * X* Uf/Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
X	200.00000	method volume factor
Uf	1.00000	ng unit correction factor
Vo	200.00000	Sample Volume purged (mL)

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	ON-COL (ppbv)
	1 Dichlorodifluoromethane	85	3.912	3.912	(0.526)	608594	10.0000	9.6
	2 Chloromethane	50	4.056	4.056	(0.545)	126793	10.0000	9.9
	3 Dichlorotetrafluoroethane	85	4.157	4.157	(0.559)	552941	10.0000	9.7
	4 Vinyl Chloride	62	4.258	4.258	(0.572)	138117	10.0000	10
	5 Bromomethane	94	4.604	4.604	(0.619)	169310	10.0000	9.5
	6 Chloroethane	64	4.748	4.748	(0.638)	77672	10.0000	9.2
	7 Trichlorofluoromethane	101	5.346	5.346	(0.718)	664302	10.0000	9.4
	8 1,1-Dichloroethene	96	5.831	5.831	(0.784)	187861	10.0000	9.5
	9 Methylene Chloride	49	5.907	5.907	(0.794)	216594	10.0000	8.3
	10 Freon TF	101	6.104	6.104	(0.820)	485446	10.0000	9.4
	11 1,1-Dichloroethane	63	6.742	6.742	(0 906)	375671	10.0000	9.3
	12 cis-1,2-Dichloroethene	61	7.319	7.319	(0.984)	294879	10.0000	9.3
*	13 Bromochloromethane	128	7.440	7.440	(1.000)	253477	10.0000	
	14 Chloroform	83	7.516	7.516	(1.010)	555856	10.0000	9.3

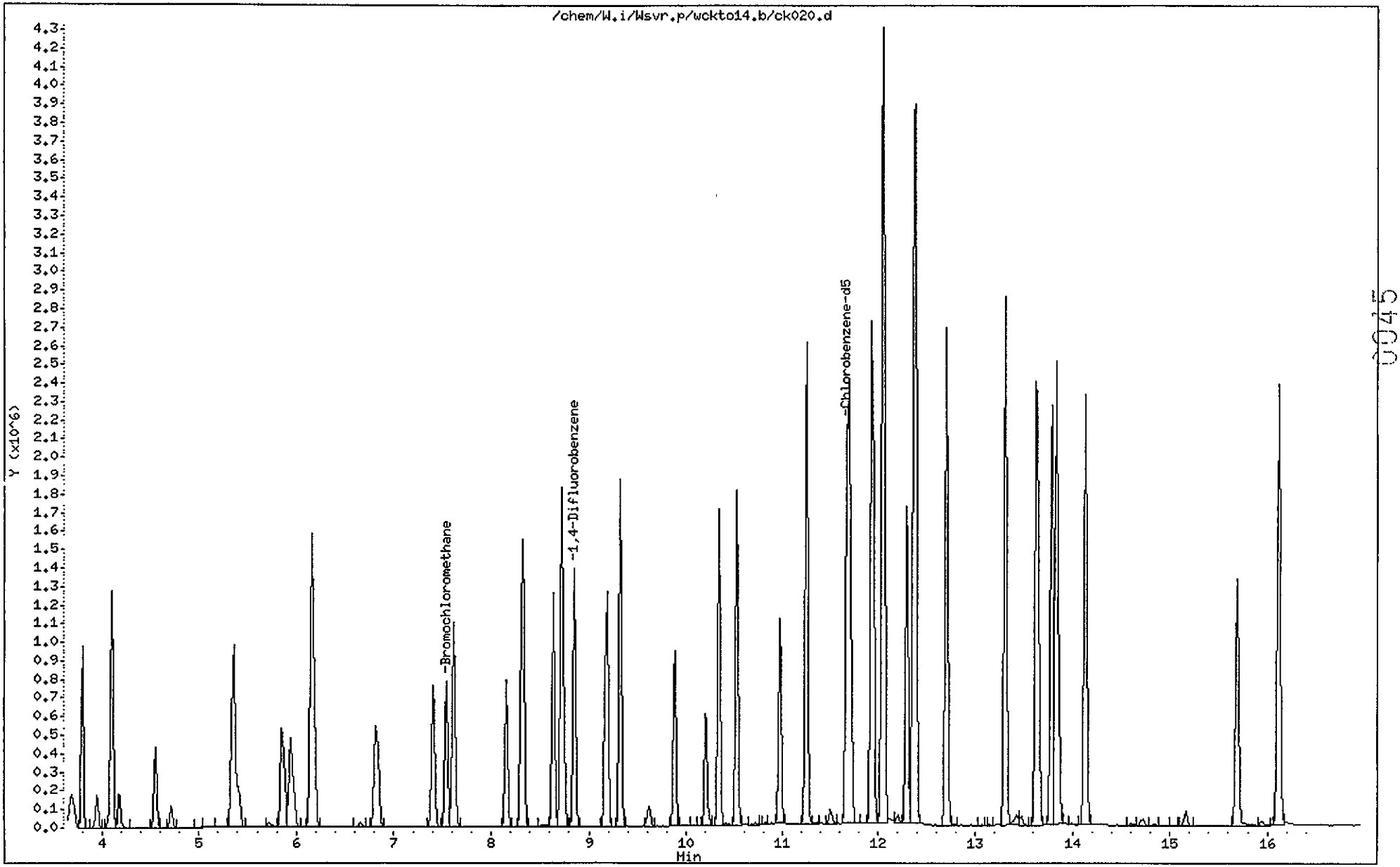
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	ON-COL (ppbv)
	15 1,2-Dichloroethane	62	8.032	8 032	(1.080)	400915	10.0000	9.5
	16 1,1,1-Trichloroethane	97	8.214	8 214	(1.104)	572119	10.0000	9.4
	17 Benzene	78	8.533	8.533	(0.976)	611130	10.0000	9.2
	18 Carbon Tetrachloride	117	8 639	8 639	(0.988)	598982	10.0000	9.5
*	19 1,4-Difluorobenzene	114	8.745	8.745	(1.000)	1127680	10.0000	
	20 1,2-Dichloropropane	63	9.079	9 079	(1.038)	219872	10.0000	9.7
	21 Trichloroethene	95	9.231	9.231	(1.056)	339819	10.0000	9.5
	22 cis-1,3-Dichloropropene	75	9.777	9.777	(1.118)	319952	10.0000	9.7
	23 trans-1,3-Dichloropropene	75	10.111	10.111	(1.156)	215834	10.0000	9.7
	24 1,1,2-Trichloroethane	83	10.247	10.247	(1.172)	268336	10.0000	9.5
	25 Toluene	92	10.445	10.445	(0.899)	493757	10.0000	8.0
	26 1,2-Dibromoethane	107	10.900	10.900	(0.939)	464741	10.0000	10
	27 Tetrachloroethene	166	11.188	11.188	(0.963)	431256	10.0000	11
*	28 Chlorobenzene-d5	117	11.613	11.613	(1.000)	1190052	10.0000	
	29 Chlorobenzene	112	11.644	11.644	(1.003)	663521	10.0000	9.3
	30 Ethylbenzene	91	11.871	11.871	(1.022)	1106458	10.0000	9.9
	31 Xylene (m,p)	106	11.993	11.993	(1.033)	893957	20.0000	21
	32 Styrene	104	12.235	12 235	(1.054)	628124	10.0000	11
M	33 Xylene (total)	106				1368469	10.0000	31
	34 1,1,2,2-Tetrachloroethane	83	12.311	12.311	(1.060)	696359	10.0000	8.9
	35 Xylene (o)	106	12.311	12.311	(1.060)	474512	10.0000	11
	36 1,3,5-Trimethylbenzene	105	13.252	13.252	(1.141)	641472	10.0000	7.6
	37 1,2,4-Trimethylbenzene	105	13.586	13.586	(1.170)	664728	10.0000	7.7
	38 1,3-Dichlorobenzene	146	13.738	13.738	(1.183)	486369	10.0000	7.6
	39 1,4-Dichlorobenzene	146	13.799	13.799	(1.188)	511266	10.0000	7.3(H)
	40 1,2-Dichlorobenzene	146	14.087	14.087	(1.213)	437619	10.0000	7.4
	41 1,2,4-Trichlorobenzene	180	15 650	15.650	(1.348)	172849	10.0000	7.0
	42 Hexachlorobutadiene	225	16.075	16.075	(1.384)	179123	10.0000	7 0

QC Flag Legend

H - Operator selected an alternate compound hit.

Data File: /chem/W.i/Wsvr.p/wckto14.b/ck020.d
Date : 08-MAY-2001 10:43
Client ID: ASTD020
Sample Info: ASTD020;ASTD020
Purge Volume: 200.0
Column phase: DB-1

Instrument: W.i
Operator: GHM
Column diameter: 0.35



0015

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AIR TOXICS QUANTITATION REPORT

Data file : /chem/W.i/Wsvr.p/wckto14.b/ck020.d
Lab Smp Id: ASTD020 Client Smp ID: ASTD020
Inj Date : 08-MAY-2001 10:43
Operator : GMM Inst ID: W.i
Smp Info : ASTD020;ASTD020
Misc Info :
Comment :
Method : /chem/W.i/Wsvr.p/wckto14.b/bto14a.m
Meth Date : 10-May-2001 11:09 mim Quant Type: ISTD
Cal Date : 08-MAY-2001 10:43 Cal File: ck020.d
Als bottle: 5 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50
Processing Host: chemsvr4

Concentration Formula: Amt * DF * X* Uf/Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
X	200.00000	method volume factor
Uf	1.00000	ng unit correction factor
Vo	200.00000	Sample Volume purged (mL)

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	AMOUNTS ON-COL (ppbv)
1	Dichlorodifluoromethane	85	3.809	3.912	(0.505)	905500	20.0000	16(H)
2	Chloromethane	50	3.953	4.056	(0.524)	180264	20.0000	16
3	Dichlorotetrafluoroethane	85	4.097	4.157	(0.543)	833495	20.0000	16
4	Vinyl Chloride	62	4.169	4.258	(0.553)	196744	20.0000	17
5	Bromomethane	94	4.559	4.604	0.604)	268291	20.0000	17
6	Chloroethane	64	4.717	4.748	(0.625)	122256	20.0000	16(M)
7	Trichlorofluoromethane	101	5.359	5.346	(0.710)	1157578	20.0000	16
8	1,1-Dichloroethene	96	5.860	5.831	(0.777)	324079	20.0000	18
9	Methylene Chloride	49	5.951	5.907	(0.789)	371056	20.0000	16
10	Freon TF	101	6.164	6.104	(0.817)	840878	20.0000	18
11	1,1-Dichloroethane	63	6.816	6.742	(0.903)	653798	20.0000	18
12	cis-1,2-Dichloroethene	61	7.408	7.319	(0.982	507421	20.0000	18
* 13	Bromochloromethane	128	7.545	7.440	1.000)	238632	10.0000	
14	Chloroform	83	7.621	7.516	1.010)	979458	20.0000	18

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	ON-COL (ppbv)
15	1,2-Dichloroethane	62	8.152	8.032	(1.080)	732539	20.0000	19
16	1,1,1-Trichloroethane	97	8.319	8.214	(1.103)	1039811	20.0000	18
17	Benzene	78	8.637	8.533	(0.976)	1090159	20.0000	17
18	Carbon Tetrachloride	117	8.728	8.639	(0.986)	1084340	20.0000	18
* 19	1,4-Difluorobenzene	114	8.850	8.745	(1.000)	1117780	10.0000	
20	1,2-Dichloropropane	63	9.184	9.079	(1.038)	371954	20.0000	17
21	Trichloroethene	95	9.320	9.231	(1.053)	605112	20.0000	18
22	cis-1,3-Dichloropropene	75	9.882	9.777	(1.117)	570850	20.0000	18
23	trans-1,3-Dichloropropene	75	10.216	10.111	(1.154)	393686	20.0000	18
24	1,1,2-Trichloroethane	83	10.337	10.247	(1.168)	433180	20.0000	16
25	Toluene	92	10.519	10.445	(0.901)	843207	20.0000	13
26	1,2-Dibromoethane	107	10.974	10.900	(0.940)	823420	20.0000	17
27	Tetrachloroethene	166	11.263	11.188	(0.965)	876163	20.0000	19
* 28	Chlorobenzene-d5	117	11.672	11.613	(1.000)	1332826	10.0000	
29	Chlorobenzene	112	11.703	11.644	(1.003)	1352112	20.0000	18
30	Ethylbenzene	91	11.930	11.871	(1.022)	2236433	20.0000	18
31	Xylene (m,p)	106	12.052	11.993	(1.032)	1882655	40.0000	40
32	Styrene	104	12.310	12.235	(1.055)	1032323	20.0000	17
M 33	Xylene (total)	106				2633170	20.0000	57
34	1,1,2,2-Tetrachloroethane	83	12.371	12.311	(1.060)	1123053	20.0000	14
35	Xylene (o)	106	12.386	12.311	(1.061)	750515	20.0000	16(Q)
36	1,3,5-Trimethylbenzene	105	13.311	13.252	(1.140)	1810852	20.0000	19
37	1,2,4-Trimethylbenzene	105	13.645	13.586	(1.169)	1827326	20.0000	19
38	1,3-Dichlorobenzene	146	13.797	13.738	(1.182)	1243362	20.0000	18
39	1,4-Dichlorobenzene	146	13.843	13.799	(1.186)	1442222	20.0000	19
40	1,2-Dichlorobenzene	146	14.131	14.087	(1.211)	1140365	20.0000	18
41	1,2,4-Trichlorobenzene	180	15.694	15.650	(1.345)	515585	20.0000	19
42	Hexachlorobutadiene	225	16.119	16.075	(1.381)	502227	20.0000	18

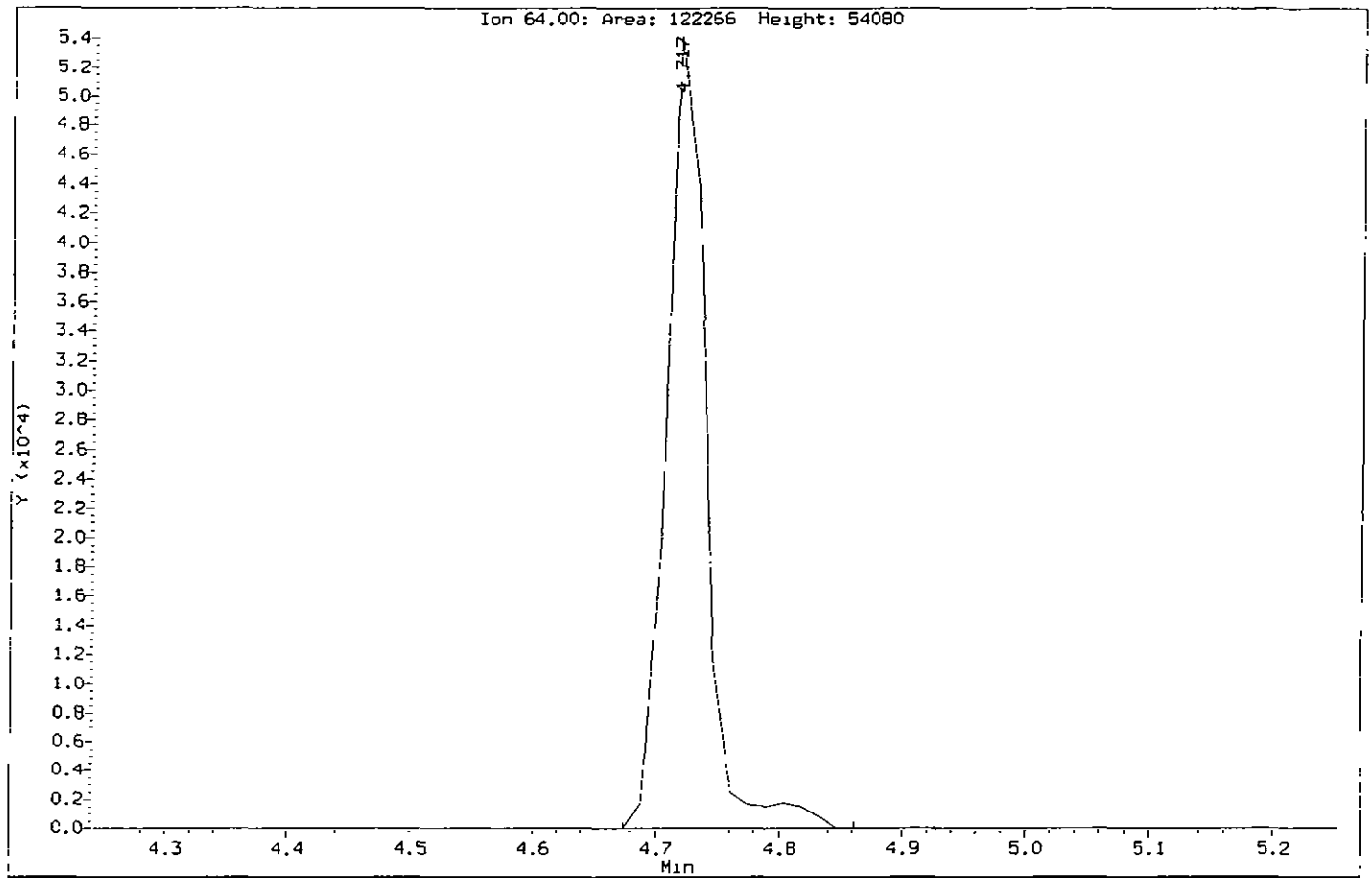
QC Flag Legend

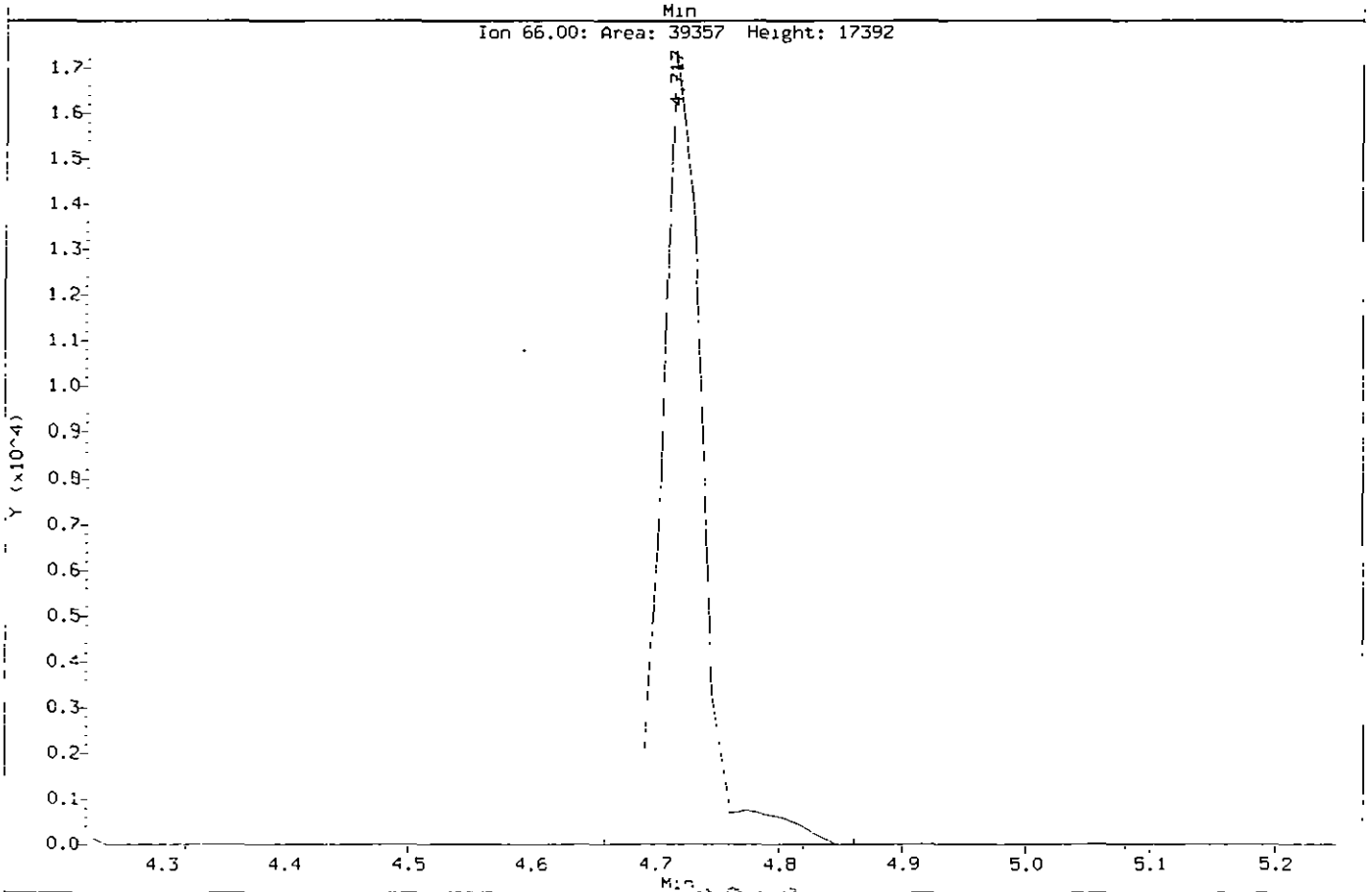
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Mine 05/11/01

Data File: /chem/W.i/Wsvr.p/wckto14.b/ck020.d
Injection Date: 08-MAY-2001 10:43
Instrument: W.i
Client Sample ID: ASTD020

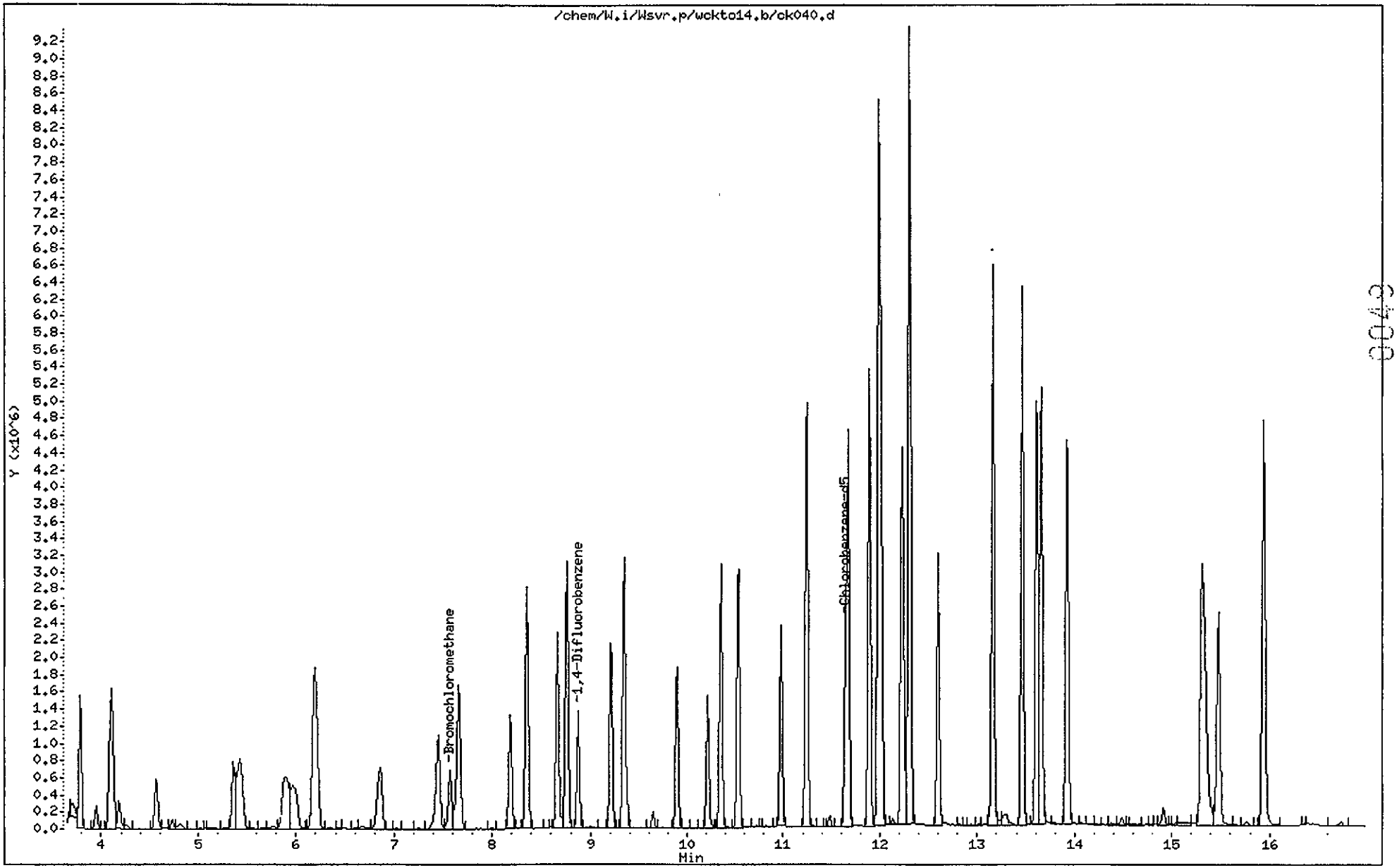
Compound: Chloroethane
CAS Number: 75-00-3





Data File: /chem/W.i/Wsvr.p/wckto14.b/ck040.d
Date : 08-MAY-2001 11:18
Client ID: ASTD040
Sample Info: ASTD040;ASTD040
Purge Volume: 200.0
Column phase: DB-1

Instrument: W.i
Operator: GMM
Column diameter: 0.35



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AIR TOXICS QUANTITATION REPORT

Data file : /chem/W.i/Wsvr.p/wckto14.b/ck040.d
Lab Smp Id: ASTD040 Client Smp ID: ASTD040
Inj Date : 08-MAY-2001 11:18
Operator : GMM Inst ID: W.i
Smp Info : ASTD040;ASTD040
Misc Info :
Comment :
Method : /chem/W.i/Wsvr.p/wckto14.b/bto14a.m
Meth Date : 10-May-2001 11:09 mim Quant Type: ISTD
Cal Date : 08-MAY-2001 11:18 Cal File: ck040.d
Als bottle: 6 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50
Processing Host: chemsvr4

Concentration Formula: Amt * DF * X* Uf/Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
X	200.00000	method volume factor
Uf	1.00000	ng unit correction factor
Vo	200.00000	Sample Volume purged (mL)

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	ON-COL (ppbv)
1	Dichlorodifluoromethane	85	3.782	3.912	(0.499)	1525809	38.0000	30(H)
2	Chloromethane	50	3.955	4.056	(0.522)	290196	40.0000	29
3	Dichlorotetrafluoroethane	85	4.114	4.157	(0.543)	1310092	40.0000	29
4	Vinyl Chloride	62	4.171	4.258	(0.551)	326999	40.0000	31
5	Bromomethane	94	4.561	4.604	(0.602)	464555	40.0000	32(M)
6	Chloroethane	64	4.734	4.748	(0.625)	221143	40.0000	32(M)
7	Trichlorofluoromethane	101	5.421	5.346	0.716)	2038266	40.0000	34(M)
8	1,1-Dichloroethene	96	5.892	5.931	0.778)	569781	40.0000	34
9	Methylene Chloride	49	5.968	5.907	(0.788)	659962	40.0000	31
10	Freon TF	101	6.195	6.104	(0.818)	1488976	40.0000	34
11	1,1-Dichloroethane	63	6.863	6.742	(0.906)	1180279	40.0000	34
12	cis-1,2-Dichloroethene	61	7.455	7.319	(0.984)	923603	40.0000	34
* 13	Bromochloromethane	128	7.576	7.440	(1.000)	229601	10.0000	
14	Chloroform	83	7.652	7.516	(1.010)	1792422	40.0000	35

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	ON-COL (ppbv)
15	1,2-Dichloroethane	62	8.183	8.032	(1.080)	1357104	40.0000	37
16	1,1,1-Trichloroethane	97	8.350	8.214	(1.102)	1916665	40.0000	36
17	Benzene	78	8.669	8.533	(0.976)	2058128	40.0000	35
18	Carbon Tetrachloride	117	8.760	8.639	(0.986)	2012640	40.0000	36
* 19	1,4-Difluorobenzene	114	8.881	8.745	(1.000)	1074757	10.0000	
20	1,2-Dichloropropane	63	9.200	9.079	(1.036)	704396	40.0000	35
21	Trichloroethene	95	9.352	9.231	(1.053)	1067792	40.0000	34
22	cis-1,3-Dichloropropene	75	9.898	9.777	(1.114)	1168959	40.0000	39
23	trans-1,3-Dichloropropene	75	10.217	10.111	(1.150)	898663	40.0000	43(A)
24	1,1,2-Trichloroethane	83	10.353	10.247	(1.166)	808932	40.0000	33
25	Toluene	92	10.535	10.445	(0.905)	1667363	40.0000	28
26	1,2-Dibromoethane	107	10.976	10.900	(0.943)	1610935	40.0000	33
27	Tetrachloroethene	166	11.249	11.188	(0.966)	1784901	40.0000	38
* 28	Chlorobenzene-d5	117	11.643	11.613	(1.000)	1384425	10.0000	
29	Chlorobenzene	112	11.674	11.644	(1.003)	2733705	40.0000	35
30	Ethylbenzene	91	11.886	11.871	(1.021)	4332816	40.0000	35
31	Xylene (m,p)	106	11.992	11.993	(1.030)	3955922	80.0000	80(AQ)
32	Styrene	104	12.235	12.235	(1.051)	2769930	40.0000	44(A)
M 33	Xylene (total)	106				5918545	40.0000	120(A)
34	1,1,2,2-Tetrachloroethane	83	12.296	12.311	(1.056)	2607667	40.0000	33
35	Xylene (o)	106	12.311	12.311	(1.057)	1962623	40.0000	41(AQ)
36	1,3,5-Trimethylbenzene	105	13.161	13.252	(1.130)	3807912	40.0000	39
37	1,2,4-Trimethylbenzene	105	13.464	13.586	(1.156)	3800795	40.0000	39
38	1,3-Dichlorobenzene	146	13.616	13.738	(1.169)	2983249	40.0000	41(AH)
39	1,4-Dichlorobenzene	146	13.662	13.799	(1.173)	3121031	40.0000	39(H)
40	1,2-Dichlorobenzene	146	13.935	14.087	(1.197)	2646692	40.0000	40
41	1,2,4-Trichlorobenzene	180	15.483	15.650	(1.330)	941082	40.0000	34
42	Hexachlorobutadiene	225	15.953	16.075	(1.370)	1041145	40.0000	37

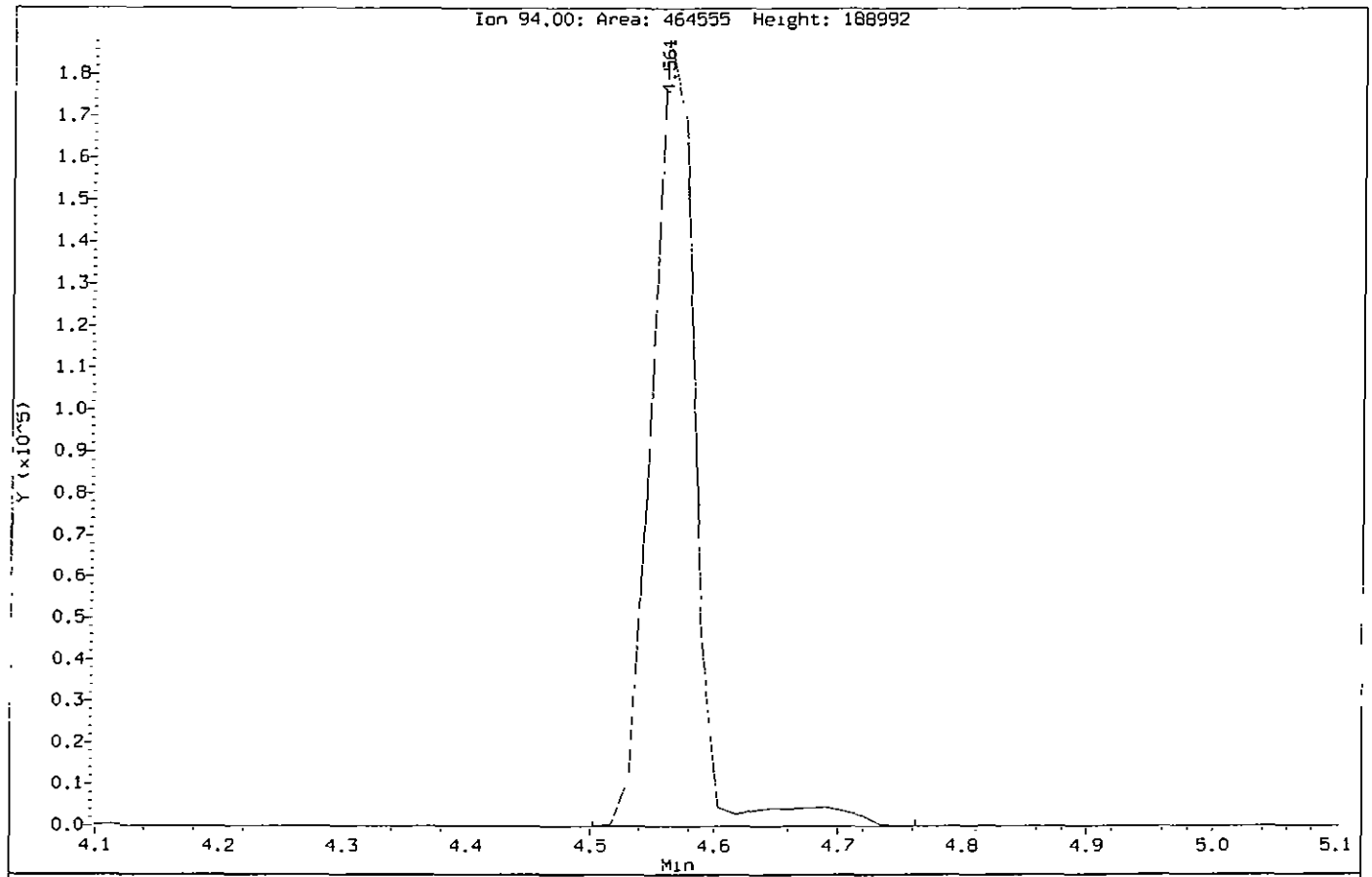
QC Flag Legend

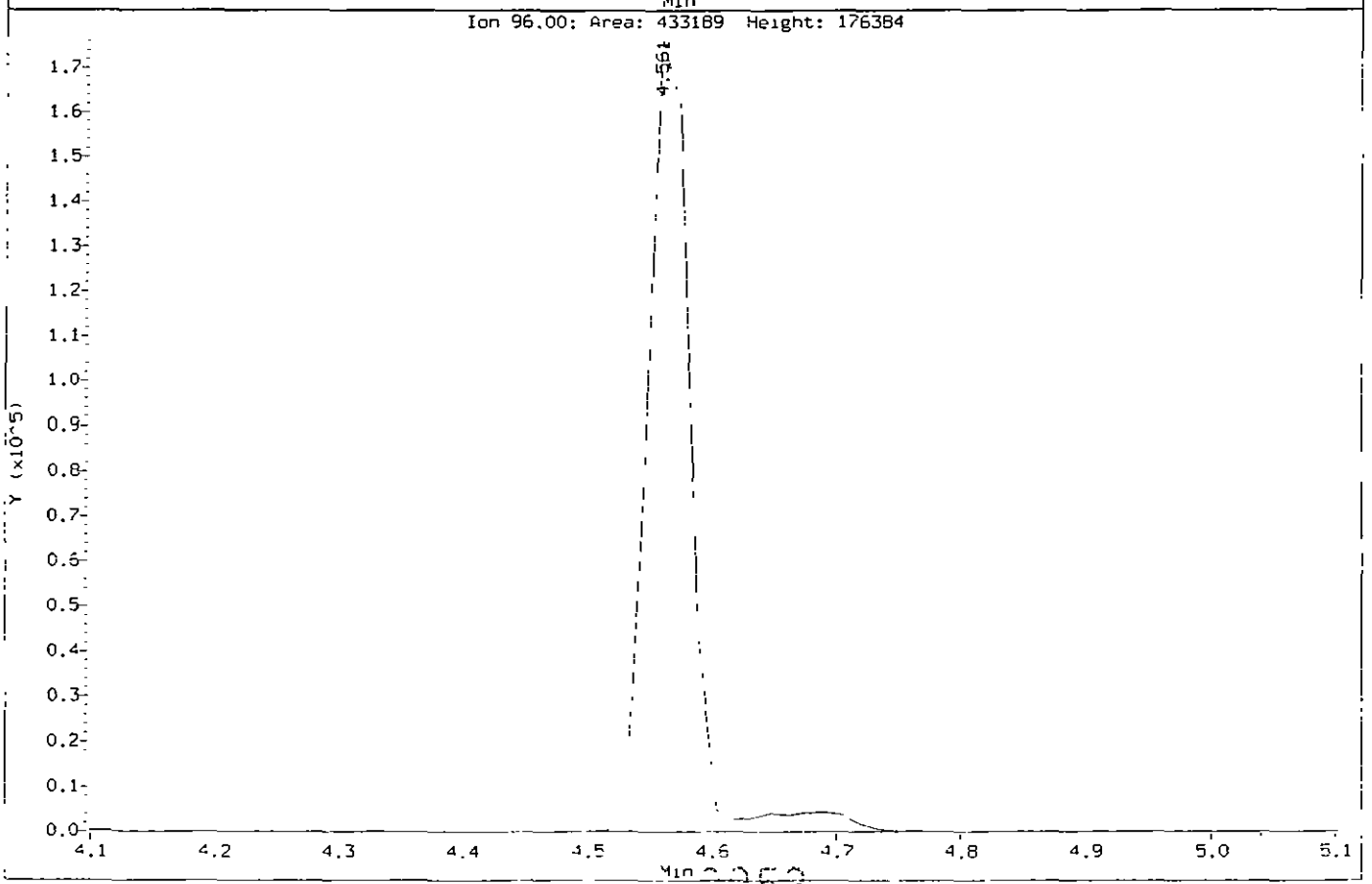
A - Target compound detected but, quantitated amount exceeded maximum amount.
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

5/16/01

Data File: /chem/W.1/Wsvr.p/wckto14.b/ck040.d
Injection Date: 08-MAY-2001 11:18
Instrument: W.1
Client Sample ID: ASTD040

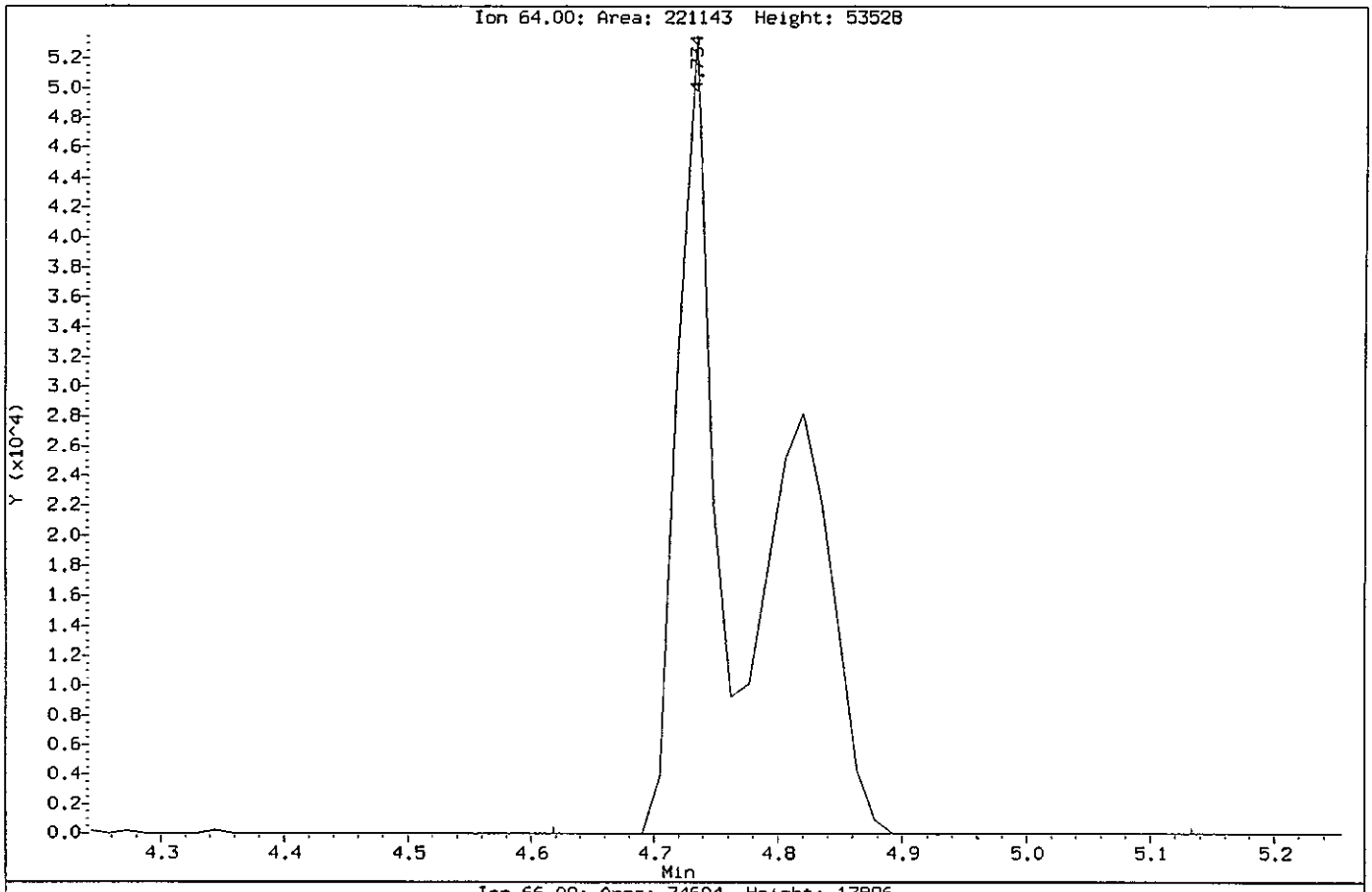
Compound: Bromomethane
CAS Number: 74-83-9

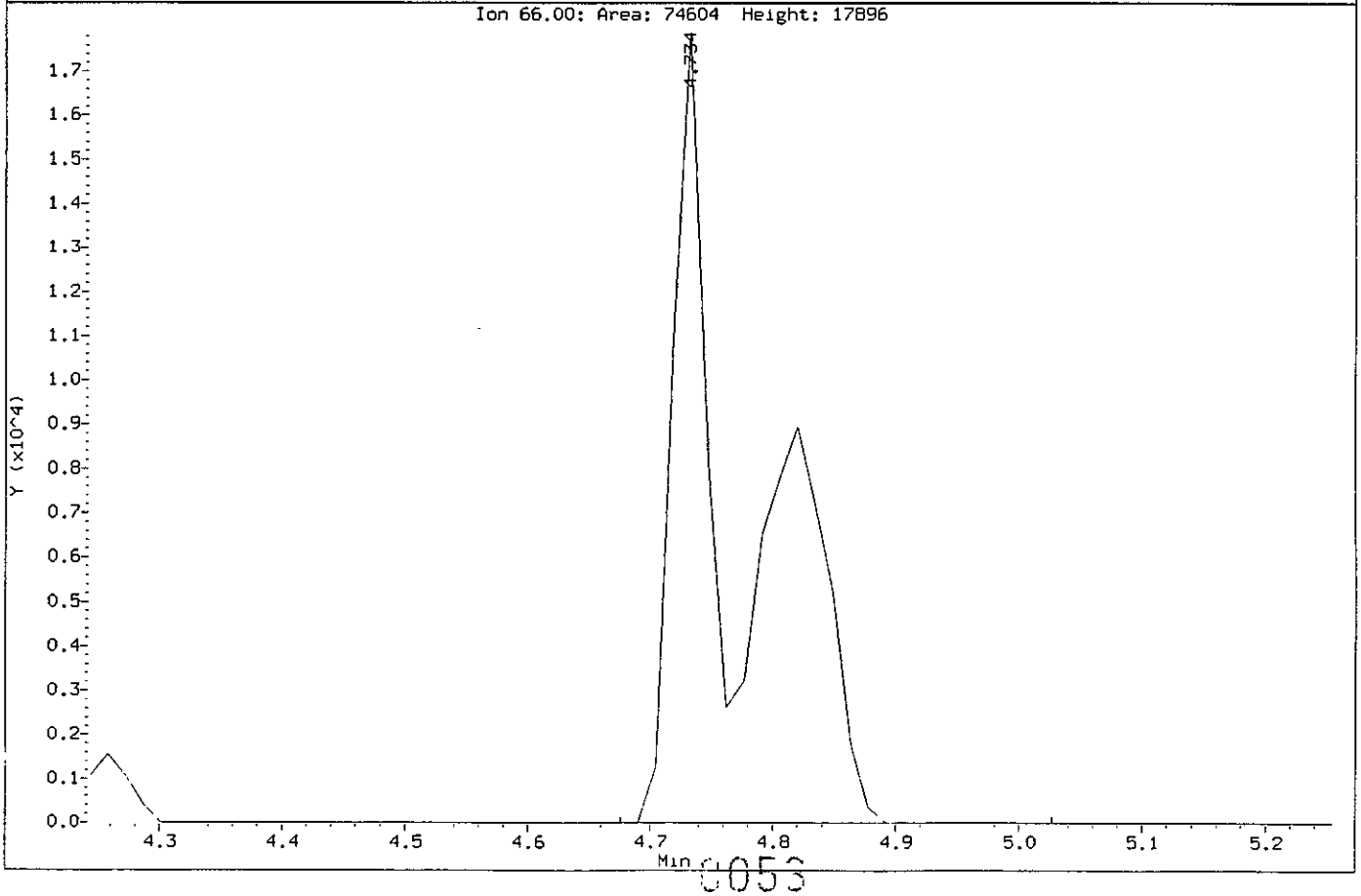




Data File: /chem/W.i/Wsvr.p/wckto14.b/ck040.d
Injection Date: 08-MAY-2001 11:18
Instrument: W.i
Client Sample ID: ASTD040

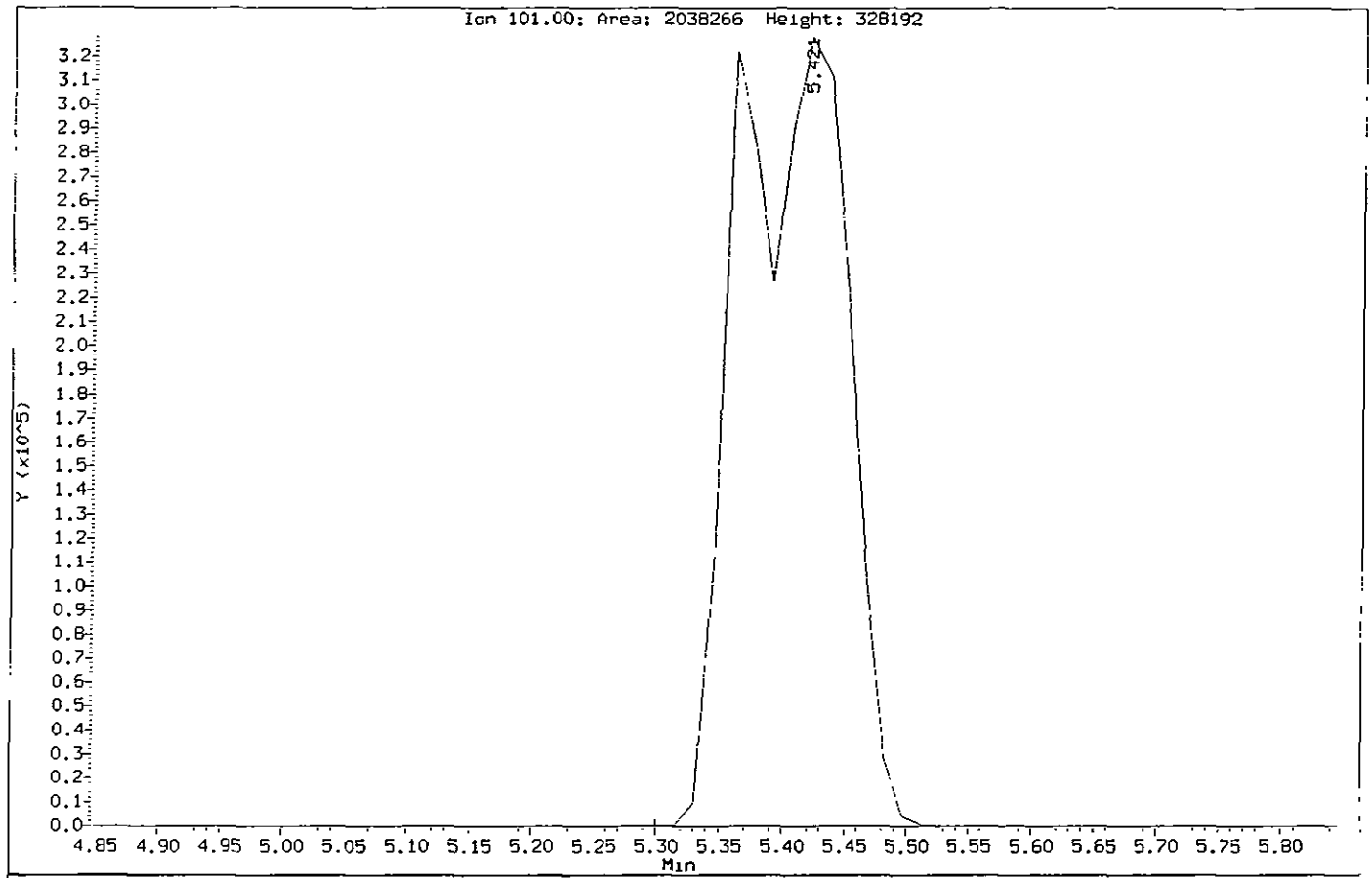
Compound: Chloroethane
CAS Number: 75-00-3

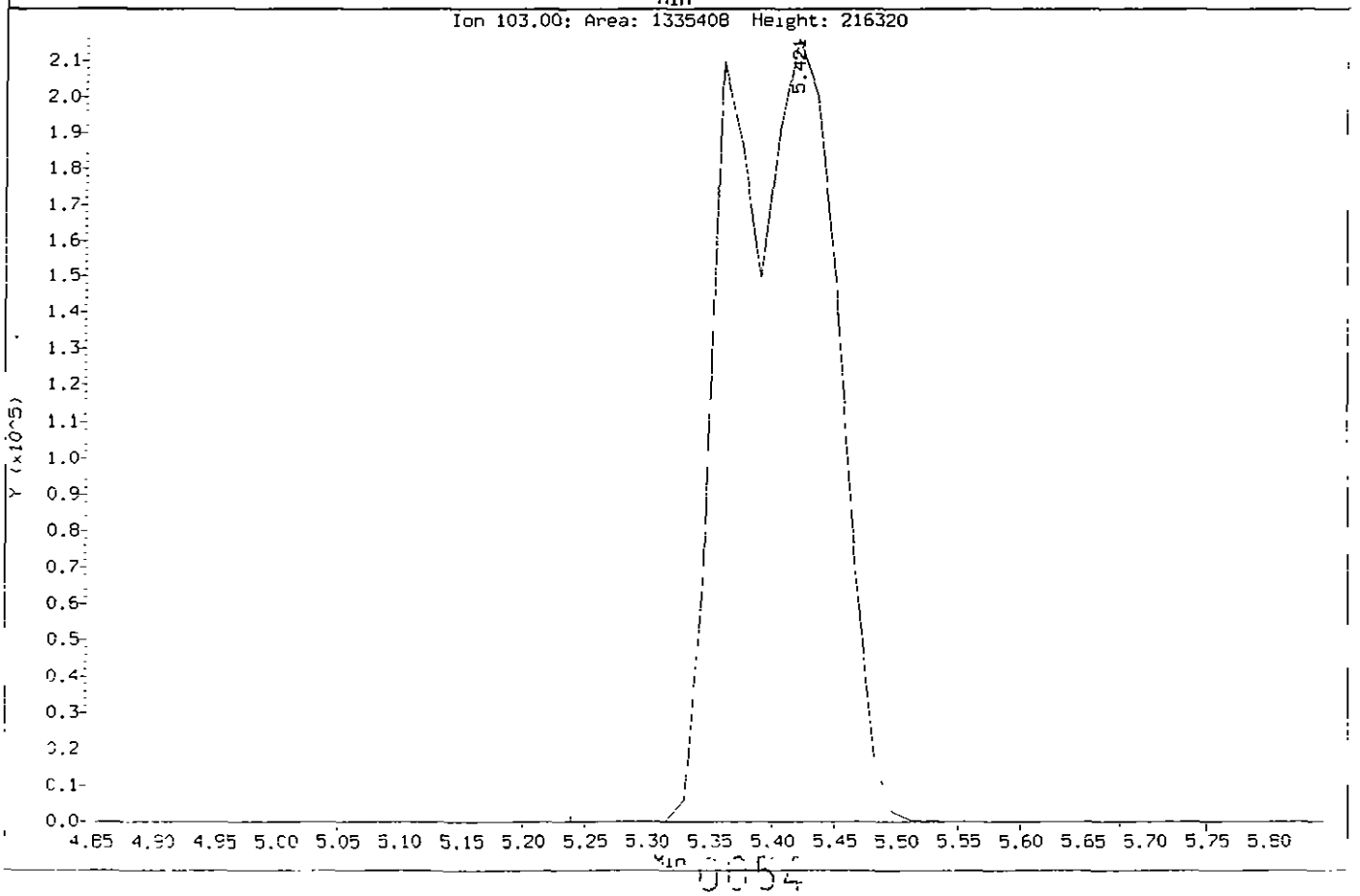




Data File: /chem/W.i/Wsvr.p/wckto14.b/ck040.d
Injection Date: 08-MAY-2001 11:18
Instrument: W.i
Client Sample ID: ASTD040

Compound: Trichlorofluoromethane
CAS Number: 75-69-4





STL Burlington

INITIAL CALIBRATION DATA

Start Cal Date : 08-MAY-2001 08:56
End Cal Date : 08-MAY-2001 11:18
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/W.i/Wsvr.p/wckto14.b/bto14a.m
Cal Date : 10-May-2001 11:09 mim
Curve Type : Average

Calibration File Names:
Level 1: /chem/W.i/Wsvr.p/wckto14.b/ck0005.d
Level 2: /chem/W.i/Wsvr.p/wckto14.b/ck005.d
Level 3: /chem/W.i/Wsvr.p/wckto14.b/ck010.d
Level 4: /chem/W.i/Wsvr.p/wckto14.b/ck020.d
Level 5: /chem/W.i/Wsvr.p/wckto14.b/ck040.d

Compound	0.50000 Level 1	5.000 Level 2	10.000 Level 3	20.000 Level 4	40.000 Level 5	RRF	% RSD	
1 Dichlorodifluoromethane	2.55755	2.57637	2.40098	1.89727	1.74881	2.23620	17.299	
2 Chloromethane	0.48667	0.52614	0.50022	0.37770	0.31598	0.44134	20.417	
3 Dichlorotetrafluoroethane	2.22174	2.33281	2.18142	1.74640	1.42649	1.98177	19.287	
4 Vinyl Chloride	0.49024	0.52102	0.54489	0.41223	0.35605	0.46489	16.942	
5 Bromomethane	0.70966	0.73334	0.66795	0.56214	0.50583	0.63579	15.395	
6 Chloroethane	0.35702	0.33352	0.30643	0.25618	0.24079	0.29879	16.595	
7 Trichlorofluoromethane	2.79771	2.96375	2.62076	2.42545	2.21936	2.60540	11.305	
8 1,1-Dichloroethene	0.75299	0.83675	0.74114	0.67904	0.62040	0.72606	11.227	
9 Methylene Chloride	1.25072	0.98896	0.85449	0.77746	0.71860	0.91805	23.061	
10 Freon TF	1.98099	2.20021	1.91515	1.76187	1.62126	1.89590	11.604	
11 1,1-Dichloroethane	1.60688	1.70267	1.48207	1.36989	1.28514	1.48933	11.402	
12 cis-1,2-Dichloroethene	1.25867	1.33418	1.16334	1.06319	1.00566	1.16501	11.608	
14 Chloroform	2.38736	2.47236	2.19292	2.05230	1.95167	2.21132	9.912	
15 1,2-Dichloroethane	1.60032	1.82116	1.58166	1.53487	1.47768	1.60314	8.157	
16 1,1,1-Trichloroethane	2.32800	2.63329	2.25708	2.17869	2.08695	2.29680	9.075	
17 Benzene	0.60365	0.61724	0.54194	0.48764	0.47874	0.54584	11.710	
18 Carbon Tetrachloride	0.54411	0.60113	0.53116	0.48504	0.46816	0.52592	9.981	
20 1,2-Dichloropropane	0.20111	0.20763	0.19498	0.16638	0.16385	0.18679	10.871	
21 Trichloroethene	0.30364	0.34237	0.30134	0.27068	0.24838	0.29328	12.186	
22 cis-1,3-Dichloropropene	0.29268	0.30031	0.28373	0.25535	0.27191	0.28080	6.313	
23 trans-1,3-Dichloropropene	0.20148	0.19772	0.19140	0.17610	0.20904	0.19515	6.362	
24 1,1,2-Trichloroethane	0.26456	0.24769	0.23795	0.19377	0.18817	0.22643	14.927	
25 Toluene	0.53956	0.60559	0.41490	0.31632	0.30109	0.43549	30.903	<-
26 1,2-Dibromoethane	0.35175	0.42996	0.39052	0.30890	0.29090	0.35441	16.161	
27 Tetrachloroethene	0.31232	0.35059	0.36238	0.32869	0.32232	0.33526	6.163	
29 Chlorobenzene	0.61775	0.62352	0.55756	0.50724	0.49365	0.55994	10.775	

STL Burlington

INITIAL CALIBRATION DATA

Start Cal Date : 08-MAY-2001 08:56
End Cal Date : 08-MAY-2001 11:18
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/W.i/Wsvr.p/wckto14.b/bto14a.m
Cal Date : 10-May-2001 11:09 mim
Curve Type : Average

	Compound	0.50000 Level 1	5.000 Level 2	10.000 Level 3	20.000 Level 4	40.000 Level 5	RRF	% RSD
	30 Ethylbenzene	0.77864	1.09845	0.92976	0.83898	0.78242	0.88565	15.097
	31 Xylene (m,p)	0.29596	0.40119	0.37560	0.35313	0.35718	0.35661	10.895
	32 Styrene	0.34256	0.52944	0.52781	0.38727	0.50020	0.45746	18.958
M	33 Xylene (total)	0.29149	0.41683	0.39873	0.28155	0.35441	0.34860	17.543
	34 1,1,2,2-Tetrachloroethane	0.65134	0.73268	0.58515	0.42131	0.47089	0.57227	22.312
	35 Xylene (o)	0.29149	0.41683	0.39873	0.28155	0.35441	0.34860	17.543
	36 1,3,5-Trimethylbenzene	0.64711	0.92919	0.53903	0.67933	0.68763	0.69646	20.527
	37 1,2,4-Trimethylbenzene	0.68122	0.92339	0.55857	0.68551	0.68635	0.70701	18.765
	38 1,3-Dichlorobenzene	0.53205	0.66947	0.40870	0.46644	0.53872	0.52307	18.645
	39 1,4-Dichlorobenzene	0.68225	0.65548	0.42962	0.54104	0.56360	0.57440	17.496
	40 1,2-Dichlorobenzene	0.54086	0.58585	0.36773	0.42780	0.47794	0.48004	18.113
	41 1,2,4-Trichlorobenzene	0.28412	0.18965	0.14524	0.19342	0.16994	0.19648	26.772
	42 Hexachlorobutadiene	0.26085	0.23421	0.15052	0.18841	0.18801	0.20440	21.189

FORM 7
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 82724

Instrument ID: W Calibration Date: 05/08/01 Time: 1008

Lab File ID: CK010 Init. Calib. Date(s): 05/08/01 05/08/01

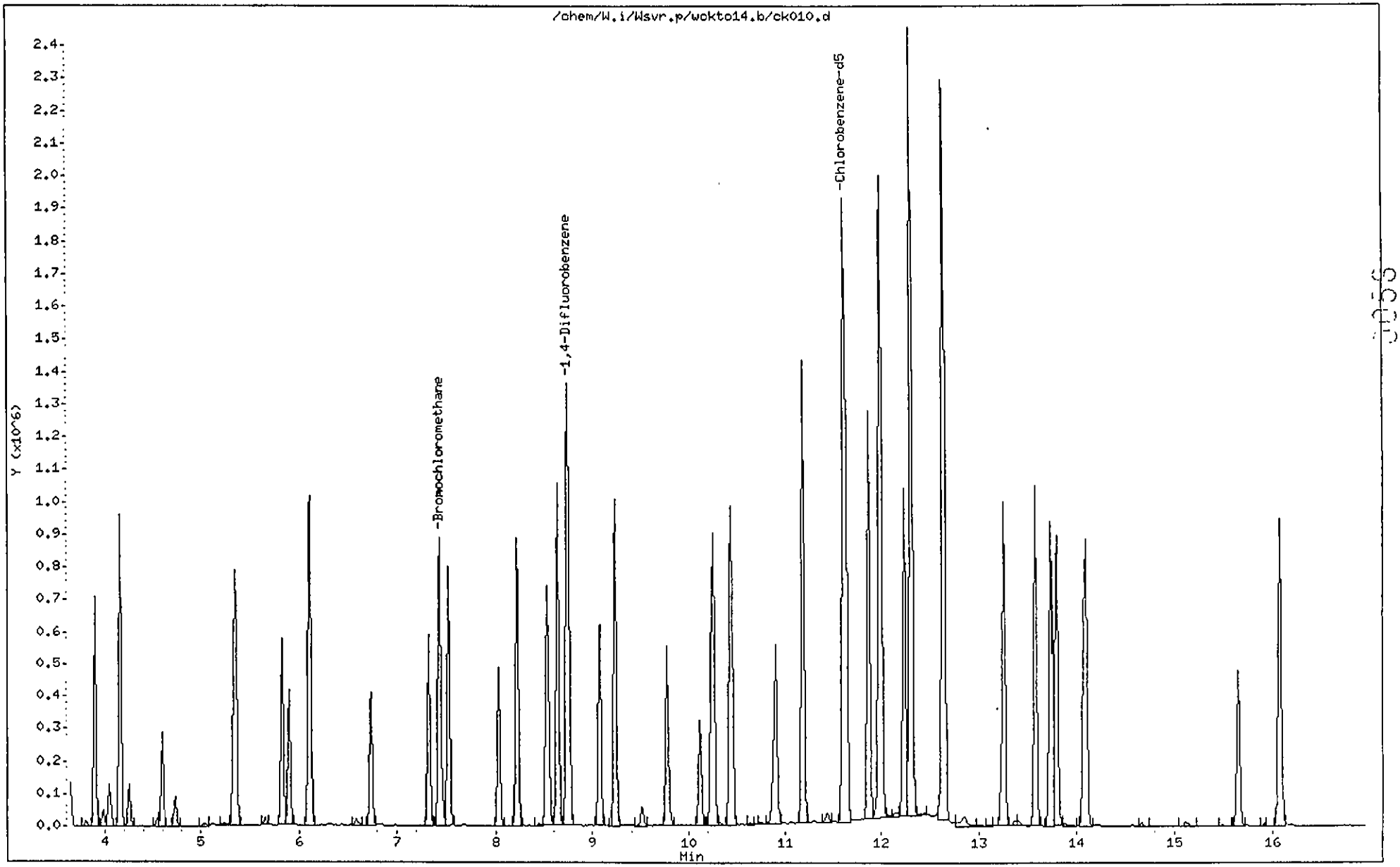
Heated Purge: (Y/N) N Init. Calib. Times: 0856 1118

GC Column: DB-1 ID: 0.35 (mm)

COMPOUND	$\overline{RRF}$	RRF10	MIN RRF	%D	MAX %D
Chloromethane	0.441	0.500	0.1	13.4	30.0
Vinyl Chloride	0.465	0.545	0.01	17.2	30.0
Bromomethane	0.636	0.668	0.01	5.0	30.0
Chloroethane	0.299	0.306	0.01	2.3	30.0
Trichlorofluoromethane	2.605	2.621	0.01	0.6	30.0
Methylene Chloride	0.918	0.854	0.01	7.0	30.0
1,1-Dichloroethane	1.489	1.482	0.1	0.5	30.0
cis-1,2-Dichloroethene	1.165	1.163	0.01	0.2	30.0
Chloroform	2.211	2.193	0.01	0.8	30.0
1,1,1-Trichloroethane	2.297	2.257	0.01	1.7	30.0
Carbon Tetrachloride	0.526	0.531	0.01	1.0	30.0
Benzene	0.546	0.542	0.01	0.7	30.0
1,2-Dichloroethane	1.603	1.582	0.01	1.3	30.0
Trichloroethene	0.293	0.301	0.01	2.7	30.0
1,2-Dichloropropane	0.187	0.195	0.01	4.3	30.0
cis-1,3-Dichloropropene	0.281	0.284	0.01	1.1	30.0
Toluene	0.436	0.415	0.01	4.8	30.0
trans-1,3-Dichloropropene	0.195	0.191	0.01	2.0	30.0
1,1,2-Trichloroethane	0.226	0.238	0.01	5.3	30.0
Tetrachloroethene	0.335	0.362	0.01	8.0	30.0
Chlorobenzene	0.560	0.558	0.3	0.4	30.0
Ethylbenzene	0.886	0.930	0.01	5.0	30.0
Xylene (total)	0.349	0.399	0.01	14.3	30.0
Styrene	0.457	0.528	0.01	15.5	30.0
Xylene (m,p)	0.357	0.376	0.01	5.3	30.0
Xylene (o)	0.349	0.399	0.01	14.3	30.0
1,1,2,2-Tetrachloroethane	0.572	0.585	0.01	2.3	30.0
1,3-Dichlorobenzene	0.523	0.409	0.01	21.8	30.0
1,4-Dichlorobenzene	0.574	0.430	0.01	25.1	30.0
1,2-Dichlorobenzene	0.480	0.368	0.01	23.3	30.0

Data File: /chem/W.i/Wsvr.p/wokto14.b/ck010.d
Date : 08-MAY-2001 10:08
Client ID: ASTD010
Sample Info: ASTD010;ASTD010
Purge Volume: 200.0
Column phase: DB-1

Instrument: W.i
Operator: GMM
Column diameter: 0.35



STL Burlington

AIR TOXICS QUANTITATION REPORT

Data file : /chem/W.i/Wsvr.p/wckto14.b/ck010.d
Lab Smp Id: ASTD010 Client Smp ID: ASTD010
Inj Date : 08-MAY-2001 10:08
Operator : GMM Inst ID: W.i
Smp Info : ASTD010;ASTD010
Misc Info :
Comment :
Method : /chem/W.i/Wsvr.p/wckto14.b/bto14a.m
Meth Date : 10-May-2001 11:09 mim Quant Type: ISTD
Cal Date : 08-MAY-2001 10:08 Cal File: ck010.d
Als bottle: 4 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50
Processing Host: chemsvr4

Concentration Formula: Amt * DF * X* Uf/Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
X	200.00000	method volume factor
Uf	1.00000	ng unit correction factor
Vo	200.00000	Sample Volume purged (mL)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	AMOUNTS ON-COL (ppbv)
1 Dichlorodifluoromethane	85	3.912	3.912	(0.526)	608594	10.0000	9.6
2 Chloromethane	50	4.056	4.056	(0.545)	126793	10.0000	9.9
3 Dichlorotetrafluoroethane	85	4.157	4.157	(0.559)	552941	10.0000	9.7
4 Vinyl Chloride	62	4.258	4.258	(0.572)	138117	10.0000	10
5 Bromomethane	94	4.604	4.604	(0.619)	169310	10.0000	9.5
6 Chloroethane	64	4.748	4.748	(0.638)	77672	10.0000	9.2
7 Trichlorofluoromethane	101	5.346	5.346	(0.718)	664302	10.0000	9 4
8 1,1-Dichloroethene	96	5.831	5.831	(0.784)	187861	10.0000	9.5
9 Methylene Chloride	49	5.907	5.907	(0.794)	216594	10.0000	8.3
10 Freon TF	101	6 104	6 104	(0.820)	485446	10.0000	9.4
11 1,1-Dichloroethane	63	6.742	6.742	(0.906)	375671	10.0000	9.3
12 cis-1,2-Dichloroethene	61	7.319	7.319	(0.984)	294879	10.0000	9.3
* 13 Bromochloromethane	128	7.440	7.440	(1.000)	253477	10.0000	
14 Chloroform	83	7.516	7.516	(1.010)	555856	10.0000	9.3

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	AMOUNTS ON-COL (ppbv)
	15 1,2-Dichloroethane	62	8.032	8.032	(1.080)	400915	10.0000	9.5
	16 1,1,1-Trichloroethane	97	8.214	8.214	(1.104)	572119	10.0000	9.4
	17 Benzene	78	8.533	8.533	(0.976)	611130	10.0000	9.2
	18 Carbon Tetrachloride	117	8.639	8.639	(0.988)	598982	10.0000	9.5
*	19 1,4-Difluorobenzene	114	8.745	8.745	(1.000)	1127680	10.0000	
	20 1,2-Dichloropropane	63	9 079	9.079	(1.038)	219872	10.0000	9.7
	21 Trichloroethene	95	9 231	9.231	(1.056)	339819	10.0000	9.5
	22 cis-1,3-Dichloropropene	75	9.777	9.777	(1.118)	319952	10.0000	9.7
	23 trans-1,3-Dichloropropene	75	10.111	10.111	(1.156)	215834	10.0000	9.7
	24 1,1,2-Trichloroethane	83	10.247	10.247	(1.172)	268336	10.0000	9.5
	25 Toluene	92	10.445	10.445	(0.899)	493757	10.0000	8.0
	26 1,2-Dibromoethane	107	10.900	10.900	(0.939)	464741	10.0000	10
	27 Tetrachloroethene	166	11.188	11.188	(0.963)	431256	10.0000	11
*	28 Chlorobenzene-d5	117	11.613	11.613	(1.000)	1190052	10.0000	
	29 Chlorobenzene	112	11.644	11.644	(1.003)	663521	10.0000	9.3
	30 Ethylbenzene	91	11 871	11.871	(1.022)	1106458	10.0000	9.9
	31 Xylene (m,p)	106	11.993	11.993	(1.033)	893957	20.0000	21
	32 Styrene	104	12 235	12 235	(1.054)	628124	10.0000	11
M	33 Xylene (total)	106				1368469	10 0000	31
	34 1,1,2,2-Tetrachloroethane	83	12.311	12.311	(1.060)	696359	10.0000	8.9
	35 Xylene (o)	106	12.311	12.311	(1.060)	474512	10.0000	11
	36 1,3,5-Trimethylbenzene	105	13.252	13.252	(1.141)	641472	10.0000	7.6
	37 1,2,4-Trimethylbenzene	105	13.586	13.586	(1.170)	664728	10.0000	7.7
	38 1,3-Dichlorobenzene	146	13 738	13.738	(1.183)	486369	10.0000	7.6
	39 1,4-Dichlorobenzene	146	13.799	13.799	(1.188)	511266	10.0000	7.3(H)
	40 1,2-Dichlorobenzene	146	14.087	14.087	(1.213)	437619	10.0000	7.4
	41 1,2,4-Trichlorobenzene	180	15 650	15 650	(1.348)	172849	10.0000	7.0
	42 Hexachlorobutadiene	225	16 075	16.075	(1.384)	179123	10.0000	7.0

QC Flag Legend

H - Operator selected an alternate compound hit.

SEVERN TRENT SERVICES

Severn Trent Laboratories, Inc.

METHOD TO-14A
VOLATILE ORGANIC ANALYSIS

RAW QC DATA

Data File: /chem/W.i/Wsvr.p/wckto14.b/ck001p.d

Date : 08-MAY-2001 08:32

Client ID: WBFB001

Instrument: W.i

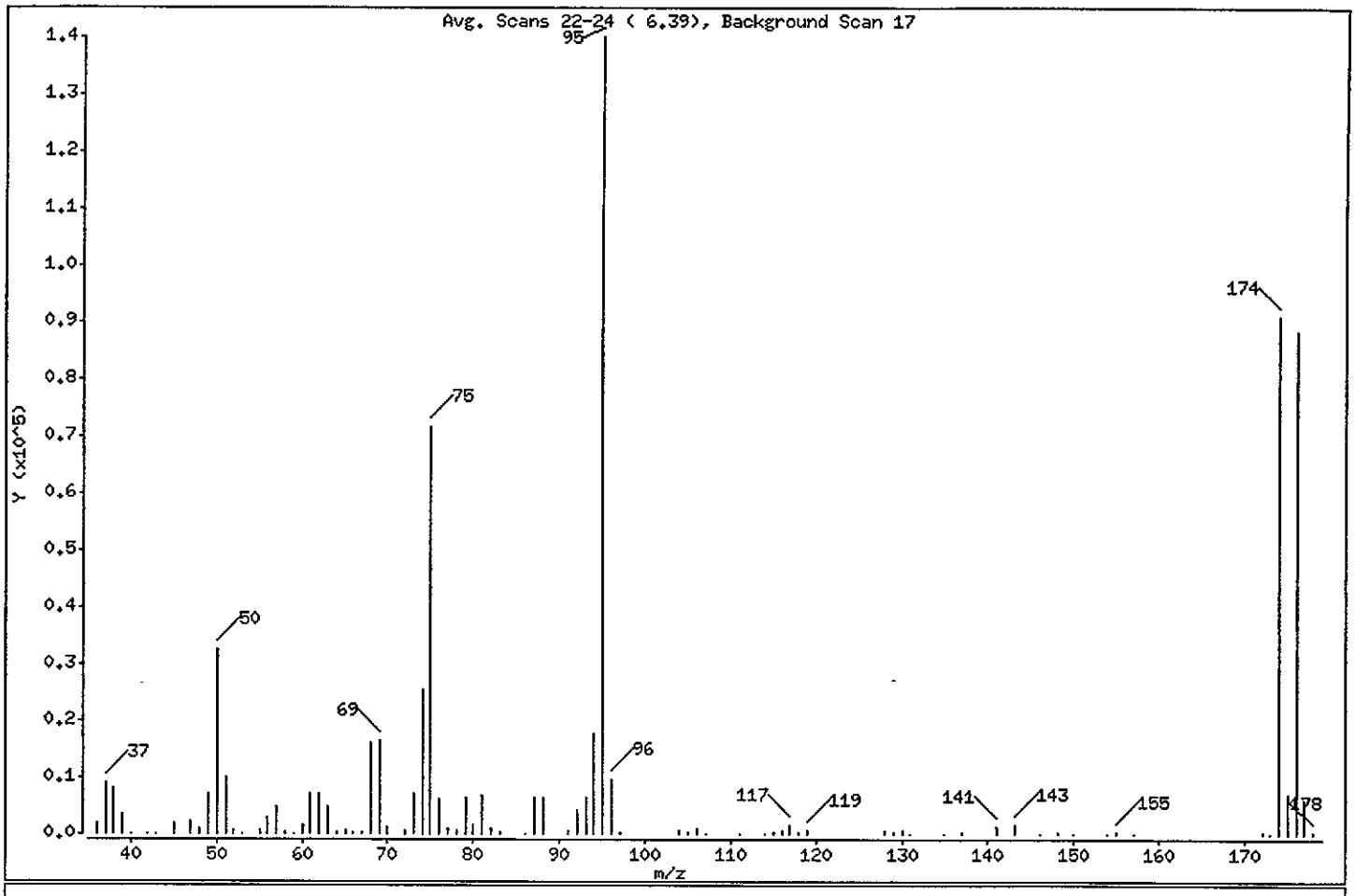
Sample Info: WBFB001

Operator: GMM

Column phase: DB-1

Column diameter: 0.32

\$ 1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	8.00 - 40.00% of mass 95	23.34
75	30.00 - 66.00% of mass 95	51.10
96	5.00 - 9.00% of mass 95	6.94
173	Less than 2.00% of mass 174	0.11 (0.18)
174	50.00 - 120.00% of mass 95	64.95
175	4.00 - 9.00% of mass 174	4.97 (7.66)
176	93.00 - 101.00% of mass 174	63.03 (97.04)
177	5.00 - 9.00% of mass 176	4.46 (7.08)

Data File: /chem/W.i/Wsvr.p/wckto14.b/ck001p.d

Date : 08-MAY-2001 08:32

Client ID: WBFB001 Instrument: W.i

Sample Info: WBFB001

Operator: CHM

Column phase: DB-1 Column diameter: 0.32

Data File: ck001p.d

Spectrum: Avg. Scans 22-24 (6.39), Background Scan 17

Location of Maximum: 95.00

Number of points: 87

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	1808	62.00	7254	87.00	6575	130.00	600
37.00	9004	63.00	4970	88.00	6535	131.00	106
38.00	8120	64.00	484	91.00	758	135.00	147
39.00	3462	65.00	523	92.00	4108	137.00	232
40.00	51	66.00	164	93.00	6464	141.00	1386
42.00	68	67.00	460	94.00	17664	142.00	99
43.00	73	68.00	16052	95.00	140096	143.00	1565
45.00	1788	69.00	16512	96.00	9726	145.00	111
47.00	2110	70.00	1202	97.00	303	146.00	131
48.00	1063	72.00	760	104.00	621	148.00	260
49.00	7242	73.00	7070	105.00	272	150.00	131
50.00	32688	74.00	25640	106.00	821	154.00	52
51.00	10061	75.00	71592	107.00	72	155.00	263
52.00	589	76.00	6233	111.00	124	157.00	138
53.00	142	77.00	1060	114.00	52	172.00	436
55.00	519	78.00	550	115.00	226	173.00	161
56.00	2775	79.00	6487	116.00	504	174.00	91000
57.00	4800	80.00	1667	117.00	1687	175.00	6967
58.00	267	81.00	6839	118.00	436	176.00	88304
59.00	55	82.00	927	119.00	773	177.00	6248
60.00	1608	83.00	253	128.00	514	178.00	184
61.00	6952	86.00	132	129.00	302		

Data File: /chem/W.i/Wsvr.p/wckto14.b/ck001p.d

Date : 08-MAY-2001 08:32

Client ID: WBFB001

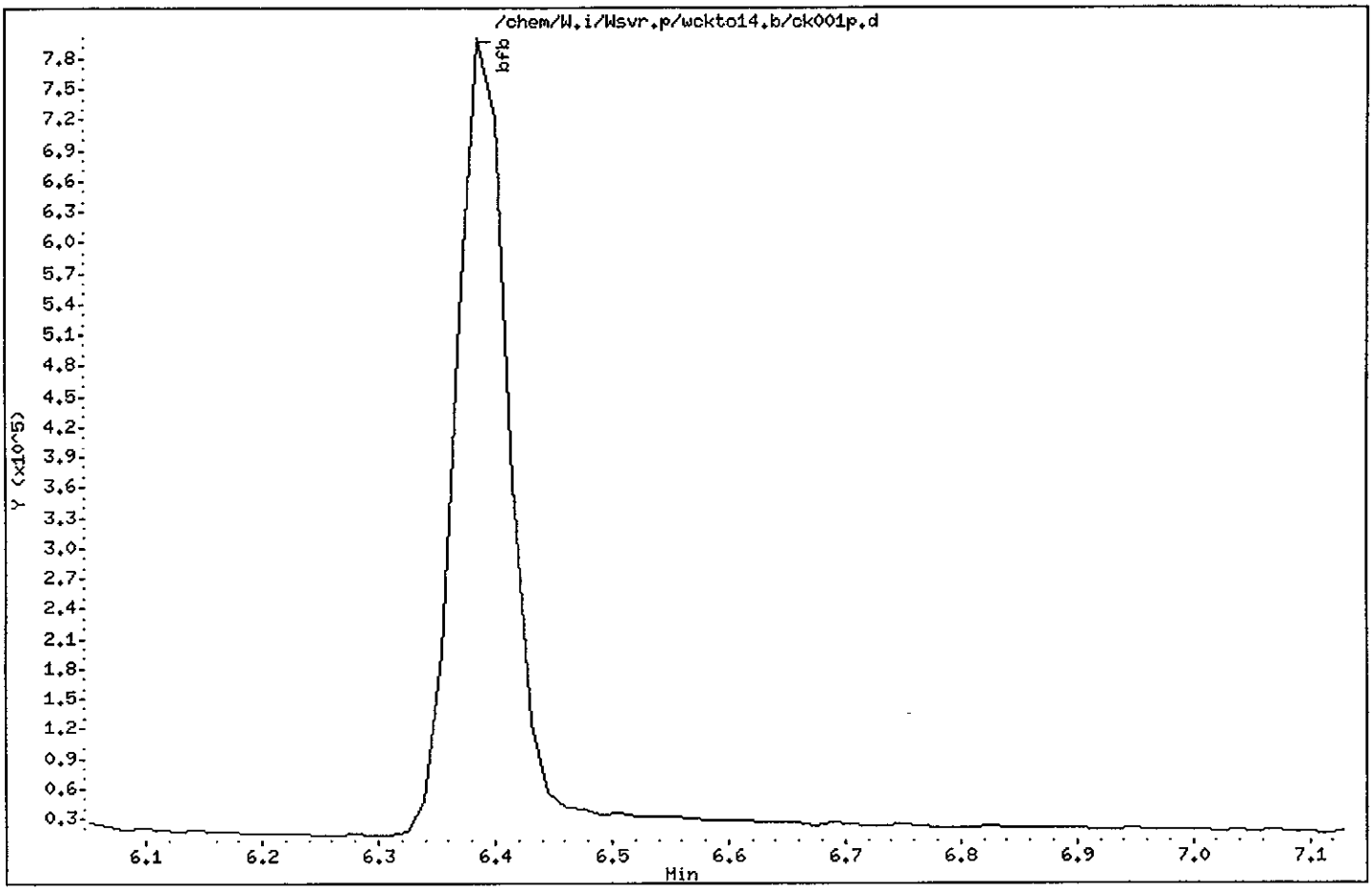
Instrument: W.i

Sample Info: WBFB001

Operator: GHM

Column phase: DB-1

Column diameter: 0.32



FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ABLKC2

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 82724

Matrix: (soil/water) AIR Lab Sample ID: ABLKC2

Sample wt/vol: 200(g/mL) ML Lab File ID: CKB001

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

% Moisture: not dec. _____ Date Analyzed: 05/08/01

GC Column: DB-1 ID: 0.35 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) PPBV	Q
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl Chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-09-2	Methylene Chloride	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
56-23-5	Carbon Tetrachloride	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-88-3	Toluene	0.50	U
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
1330-20-7	Xylene (total)	0.50	U
100-42-5	Styrene	0.50	U
1330-20-7	Xylene (m,p)	0.50	U
95-47-6	Xylene (o)	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

ABLKC2

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 82724

Matrix: (soil/water) AIR Lab Sample ID: ABLKC2

Sample wt/vol: 0.0 (g/mL) ML Lab File ID: CKB001

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

% Moisture: not dec. _____ Date Analyzed: 05/08/01

GC Column: DB-1 ID: 0.35 (mm) Dilution Factor: 1.0

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

Number TICs found: 0

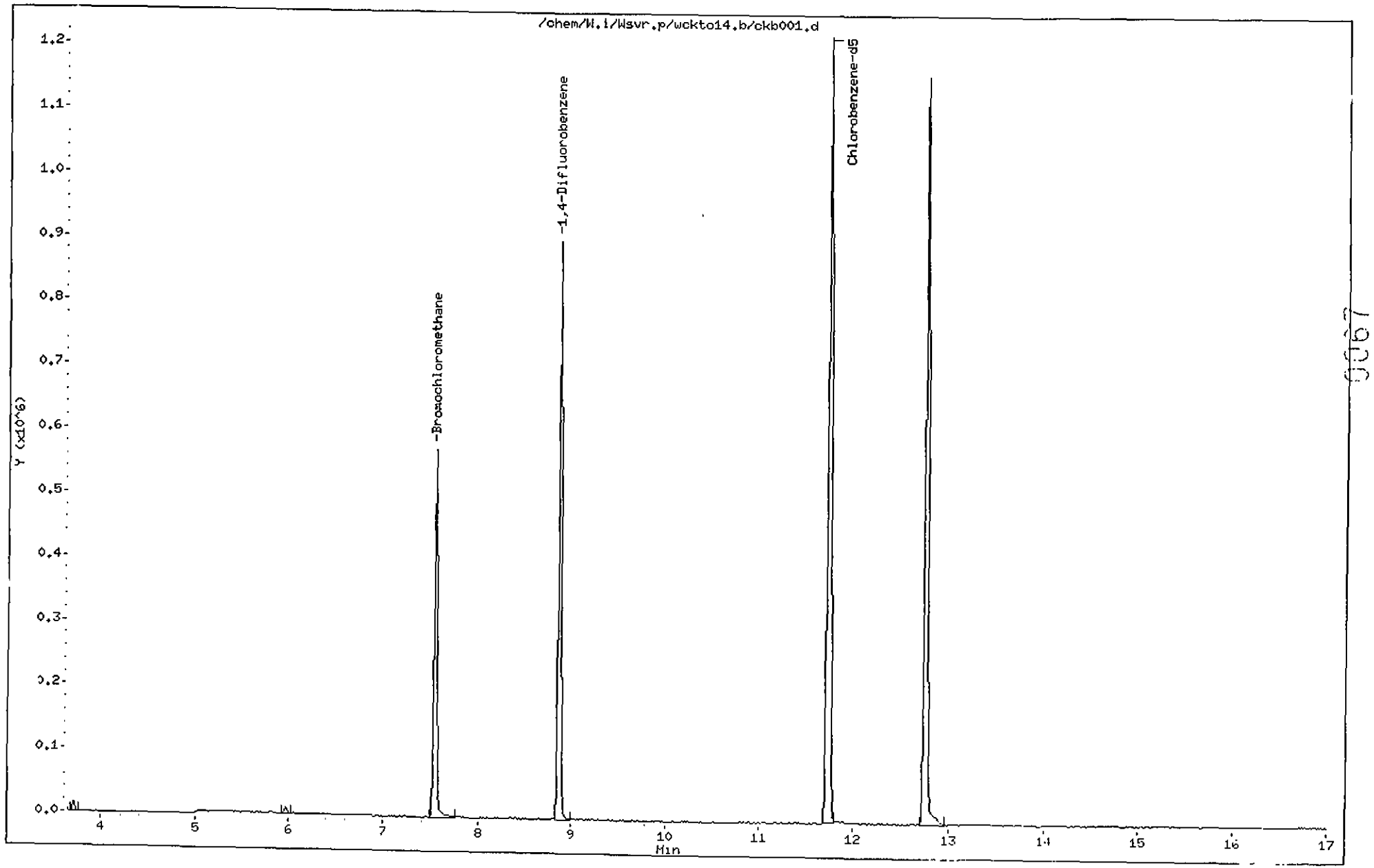
CONCENTRATION UNITS:
(ug/L or ug/Kg) ppbv

	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.					

Data File: /chem/W.1/Wsvr.p/wckto14.b/ckb001.d
Date : 08-MAY-2001 14:40
Client ID: ABLKC2
Sample Info: ABLKC2;ABLKC2;;0508C2
Purge Volume: 200.0
Column phase: DB-1

Instrument: W.1

Operator: GMH
Column diameter: 0.35



STL Burlington

AIR TOXICS QUANTITATION REPORT

Data file : /chem/W.i/Wsvr.p/wckto14.b/ckb001.d
Lab Smp Id: ABLKC2 Client Smp ID: ABLKC2
Inj Date : 08-MAY-2001 14:40
Operator : GMM Inst ID: W.i
Smp Info : ABLKC2;ABLKC2;;0508C2
Misc Info :
Comment :
Method : /chem/W.i/Wsvr.p/wckto14.b/bto14a.m
Meth Date : 14-May-2001 14:27 mim Quant Type: ISTD
Cal Date : 08-MAY-2001 11:18 Cal File: ck040.d
Als bottle: 2 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ACCANA2.sub
Target Version: 3.50
Processing Host: chemsvr4

Concentration Formula: Amt * DF * X* Uf/Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
X	200.00000	method volume factor
Uf	1.00000	ng unit correction factor
Vo	200.00000	Sample Volume purged (mL)

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	FINAL (ppbv)	
2	Chloromethane	50	Compound Not Detected.						
4	Vinyl Chloride	62	Compound Not Detected.						
5	Bromomethane	94	Compound Not Detected.						
6	Chloroethane	64	Compound Not Detected.						
7	Trichlorofluoromethane	101	Compound Not Detected.						
9	Methylene Chloride	49	Compound Not Detected.						
11	1,1-Dichloroethane	63	Compound Not Detected.						
12	cis-1,2-Dichloroethene	61	Compound Not Detected.						
* 13	Bromochloromethane	128	7.545	7.440	(1.000)	151662	10.0000		(Q)
14	Chloroform	83	Compound Not Detected.						
15	1,2-Dichloroethane	62	Compound Not Detected.						
16	1,1,1-Trichloroethane	97	Compound Not Detected.						
17	Benzene	78	Compound Not Detected.						
18	Carbon Tetrachloride	117	Compound Not Detected.						

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)
*	19 1,4-Difluorobenzene	114	8.866	8.745	(1.000)	696953	10.0000	
	20 1,2-Dichloropropane	63	Compound Not Detected.					
	21 Trichloroethene	95	Compound Not Detected.					
	22 cis-1,3-Dichloropropene	75	Compound Not Detected.					
	23 trans-1,3-Dichloropropene	75	Compound Not Detected.					
	24 1,1,2-Trichloroethane	83	Compound Not Detected.					
	25 Toluene	92	Compound Not Detected.					
	27 Tetrachloroethene	166	Compound Not Detected.					
*	28 Chlorobenzene-d5	117	11.734	11.613	(1.000)	687088	10.0000	
	29 Chlorobenzene	112	Compound Not Detected.					
	30 Ethylbenzene	91	Compound Not Detected.					
	31 Xylene (m,p)	106	Compound Not Detected.					
	32 Styrene	104	Compound Not Detected.					
M	33 Xylene (total)	106	Compound Not Detected.					
	34 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					
	35 Xylene (o)	106	Compound Not Detected.					
	38 1,3-Dichlorobenzene	146	Compound Not Detected.					
	39 1,4-Dichlorobenzene	146	Compound Not Detected.					
	40 1,2-Dichlorobenzene	146	Compound Not Detected.					

QC Flag Legend

Q - Qualifier signal failed the ratio test.

STL Burlington

AIR TOXICS QUANTITATION REPORT

Data file : /chem/W.i/Wsvr.p/wckto14.b/ckb001.d
Lab Smp Id: ABLKC2 Client Smp ID: ABLKC2
Inj Date : 08-MAY-2001 14:40
Operator : GMM Inst ID: W.i
Smp Info : ABLKC2;ABLKC2;;0508C2
Misc Info :
Comment :
Method : /chem/W.i/Wsvr.p/wckto14.b/bto14a.m
Meth Date : 14-May-2001 14:27 mim Quant Type: ISTD
Cal Date : 08-MAY-2001 11:18 Cal File: ck040.d
Als bottle: 2 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ACCANA2.sub
Target Version: 3.50
Processing Host: chemsvr4

- NO TENTATIVELY IDENTIFIED COMPOUNDS -

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

C2_ICVLCS

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 82724

Matrix: (soil/water) AIR Lab Sample ID: C2_ICVLCS

Sample wt/vol: 200(g/mL) ML Lab File ID: CK010Q

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

% Moisture: not dec. _____ Date Analyzed: 05/08/01

GC Column: DB-1 ID: 0.35 (mm) Dilution Factor: 1.0

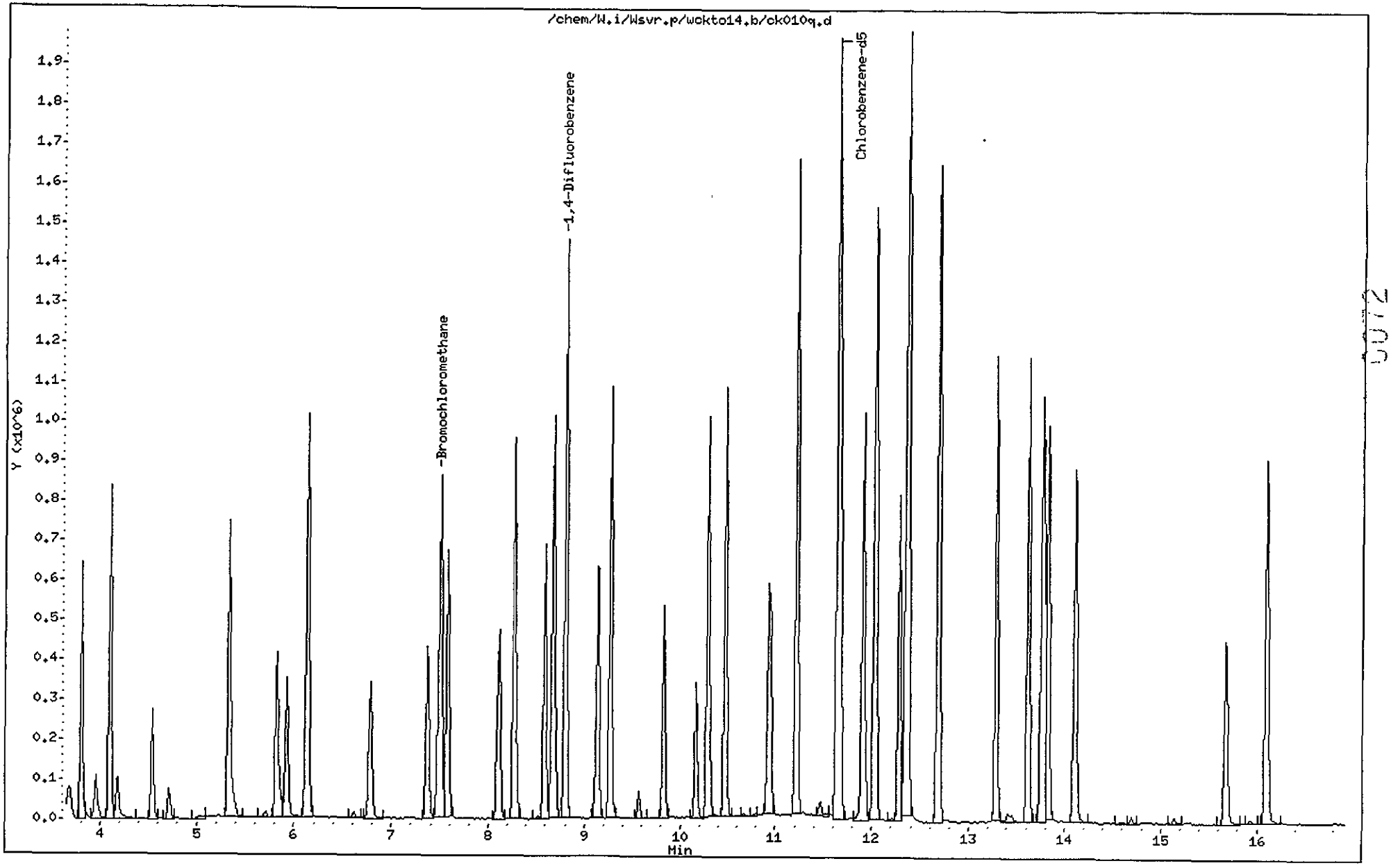
Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) PPBV	Q
74-87-3	Chloromethane	9.8	
75-01-4	Vinyl Chloride	9.4	
74-83-9	Bromomethane	9.7	
75-00-3	Chloroethane	10	
75-69-4	Trichlorofluoromethane	10	
75-09-2	Methylene Chloride	9.1	
75-34-3	1,1-Dichloroethane	9.9	
156-59-2	cis-1,2-Dichloroethene	9.7	
67-66-3	Chloroform	10	
71-55-6	1,1,1-Trichloroethane	10	
56-23-5	Carbon Tetrachloride	10	
71-43-2	Benzene	9.8	
107-06-2	1,2-Dichloroethane	10	
79-01-6	Trichloroethene	10	
78-87-5	1,2-Dichloropropane	9.8	
10061-01-5	cis-1,3-Dichloropropene	9.2	
108-88-3	Toluene	10	
10061-02-6	trans-1,3-Dichloropropene	8.9	
79-00-5	1,1,2-Trichloroethane	9.8	
127-18-4	Tetrachloroethene	14	
108-90-7	Chlorobenzene	8.3	
100-41-4	Ethylbenzene	8.3	
1330-20-7	Xylene (total)	23	
100-42-5	Styrene	8.6	
1330-20-7	Xylene (m,p)	15	
95-47-6	Xylene (o)	8.0	
79-34-5	1,1,2,2-Tetrachloroethane	9.0	
541-73-1	1,3-Dichlorobenzene	9.7	
106-46-7	1,4-Dichlorobenzene	8.5	
95-50-1	1,2-Dichlorobenzene	9.1	

Data File: /chem/W.i/Wsvr.p/wckto14.b/ck010q.d
Date : 08-MAY-2001 12:59
Client ID: C2_ICVLCS
Sample Info: C2_ICV
Purge Volume: 200.0
Column phase: DB-1

Instrument: W.i

Operator: GMM
Column diameter: 0.35



STL Burlington

AIR TOXICS QUANTITATION REPORT

Data file : /chem/W.i/Wsvr.p/wckto14.b/ck010q.d
Lab Smp Id: C2_ICVLCS Client Smp ID: C2_ICVLCS
Inj Date : 08-MAY-2001 12:59
Operator : GMM Inst ID: W.i
Smp Info : C2_ICV
Misc Info :
Comment :
Method : /chem/W.i/Wsvr.p/wckto14.b/bto14a.m
Meth Date : 10-May-2001 11:09 mim Quant Type: ISTD
Cal Date : 08-MAY-2001 11:18 Cal File: ck040.d
Als bottle: 1 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50
Processing Host: chemsvr4

Concentration Formula: Amt * DF * X* Uf/Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
X	200.00000	method volume factor
Uf	1.00000	ng unit correction factor
Vo	200.00000	Sample Volume purged (mL)

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)
1	Dichlorodifluoromethane	85	3.810	3.912	(0.508)	557468	9.73785	9.7 (M)
2	Chloromethane	50	3.969	4.056	(0.529)	111303	9.85111	9.8
3	Dichlorotetrafluoroethane	85	4.098	4.157	(0.546)	506451	9.98245	10
4	Vinyl Chloride	62	4.185	4.258	(0.558)	112180	9.42583	9.4
5	Bromomethane	94	4.545	4.604	(0.606)	157840	9.69750	9.7
6	Chloroethane	64	4.704	4.748	(0.627)	78656	10.2831	10 (M)
7	Trichlorofluoromethane	101	5.330	5.346	(0.711)	690652	10.2048	10
8	1,1-Dichloroethene	96	5.831	5.831	(0.777)	190563	10.2522	10
9	Methylene Chloride	49	5.922	5.907	(0.790)	213696	9.09253	9.1
10	Freon TF	101	6.134	6.104	(0.818)	489793	10.0914	10
11	1,1-Dichloroethane	63	6.787	6.742	(0.905)	379261	9.94719	9.9
12	cis-1,2-Dichloroethene	61	7.363	7.319	(0.982)	289159	9.69531	9.7
* 13	Bromochloromethane	128	7.500	7.440	(1.000)	256004	10.0000	
14	Chloroform	83	7.576	7.516	(1.010)	568140	10.0359	10

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)
	15 1,2-Dichloroethane	62	8.107	8.032	(1.081)	422472	10.2939	10
	16 1,1,1-Trichloroethane	97	8.274	8.214	(1.103)	599128	10.1894	10
	17 Benzene	78	8.593	8.533	(0.976)	615197	9.76252	9.8
	18 Carbon Tetrachloride	117	8.684	8.639	(0.986)	624872	10.2917	10
*	19 1,4-Difluorobenzene	114	8.805	8.745	(1.000)	1154478	10.0000	
	20 1,2-Dichloropropane	63	9.139	9.079	(1.038)	212444	9.85151	9.8
	21 Trichloroethene	95	9.275	9.231	(1.053)	339856	10.0374	10
	22 cis-1,3-Dichloropropene	75	9.822	9.777	(1.115)	297345	9.17244	9.2
	23 trans-1,3-Dichloropropene	75	10.156	10.111	(1.153)	200409	8.89549	8.9
	24 1,1,2-Trichloroethane	83	10.292	10.247	(1.169)	256222	9.80170	9.8
	25 Toluene	92	10.474	10.445	(0.900)	483201	9.97750	10
	26 1,2-Dibromoethane	107	10.930	10.900	(0.939)	454906	11.5424	12
	27 Tetrachloroethene	166	11.218	11.188	(0.964)	509089	13.6548	14(R)
*	28 Chlorobenzene-d5	117	11.643	11.613	(1.000)	1112053	10.0000	
	29 Chlorobenzene	112	11.673	11.644	(1.003)	518341	8.32429	8.3
	30 Ethylbenzene	91	11.916	11.871	(1.023)	813790	8.26274	8.3
	31 Xylene (m,p)	106	12.037	11.993	(1.034)	598376	15.0887	15
	32 Styrene	104	12.280	12.235	(1.055)	436419	8.57885	8.6
M	33 Xylene (total)	106				910716	23.4923	23
	34 1,1,2,2-Tetrachloroethane	83	12.356	12.311	(1.061)	571701	8.98339	9.0
	35 Xylene (o)	106	12.356	12.311	(1.061)	312340	8.05693	8.0(Q)
	36 1,3,5-Trimethylbenzene	105	13 282	13.252	(1 141)	743008	9.59341	9.6
	37 1,2,4-Trimethylbenzene	105	13 616	13.586	(1.169)	753106	9.57871	9.6
	38 1,3-Dichlorobenzene	146	13.767	13.738	(1.182)	566691	9.74222	9.7
	39 1,4-Dichlorobenzene	146	13.828	13.799	(1.188)	545752	8.54394	8.5
	40 1,2-Dichlorobenzene	146	14 116	14.087	(1.212)	485184	9.08881	9.1
	41 1,2,4-Trichlorobenzene	180	15.680	15 650	(1 347)	191057	8.74436	8.7
	42 Hexachlorobutadiene	225	16.104	16 075	(1.383)	193367	8.50705	8.5

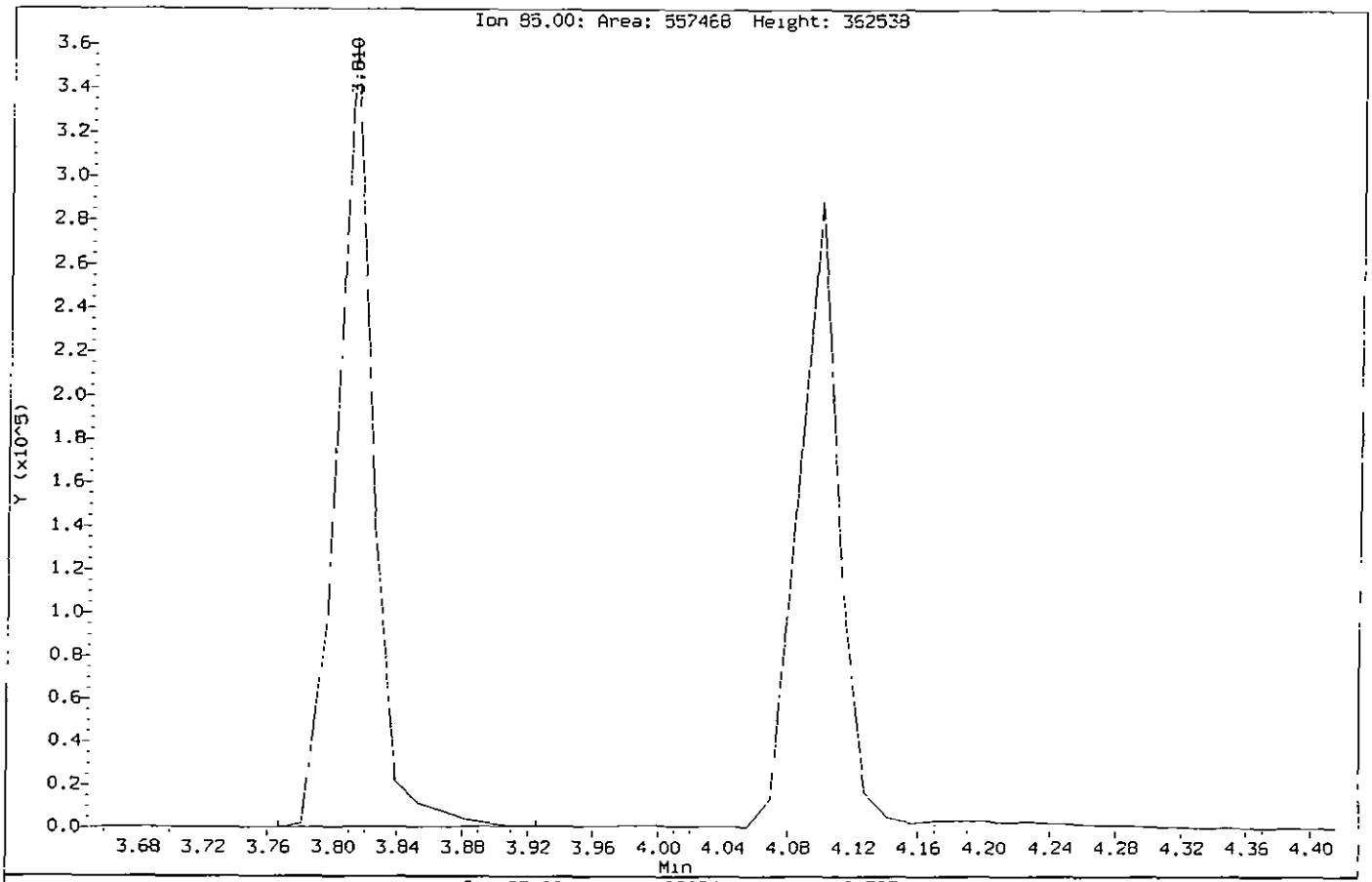
QC Flag Legend

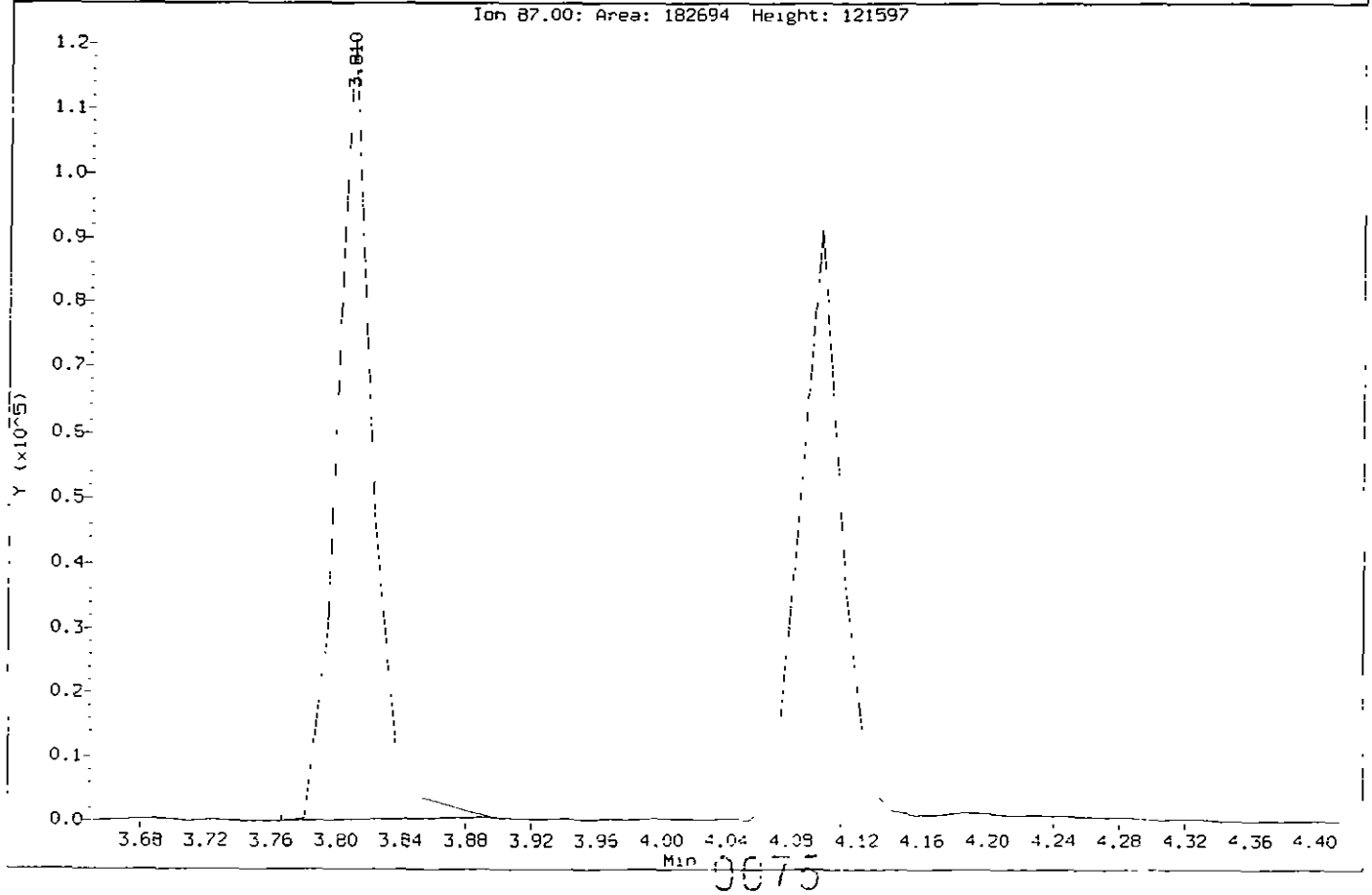
Q - Qualifier signal failed the ratio test.
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.

5/10/01

Data File: /chem/W.1/Wsvr.p/wckto14.b/ck010q.d
Injection Date: 08-MAY-2001 12:59
Instrument: W.1
Client Sample ID: C2_ICVLCS

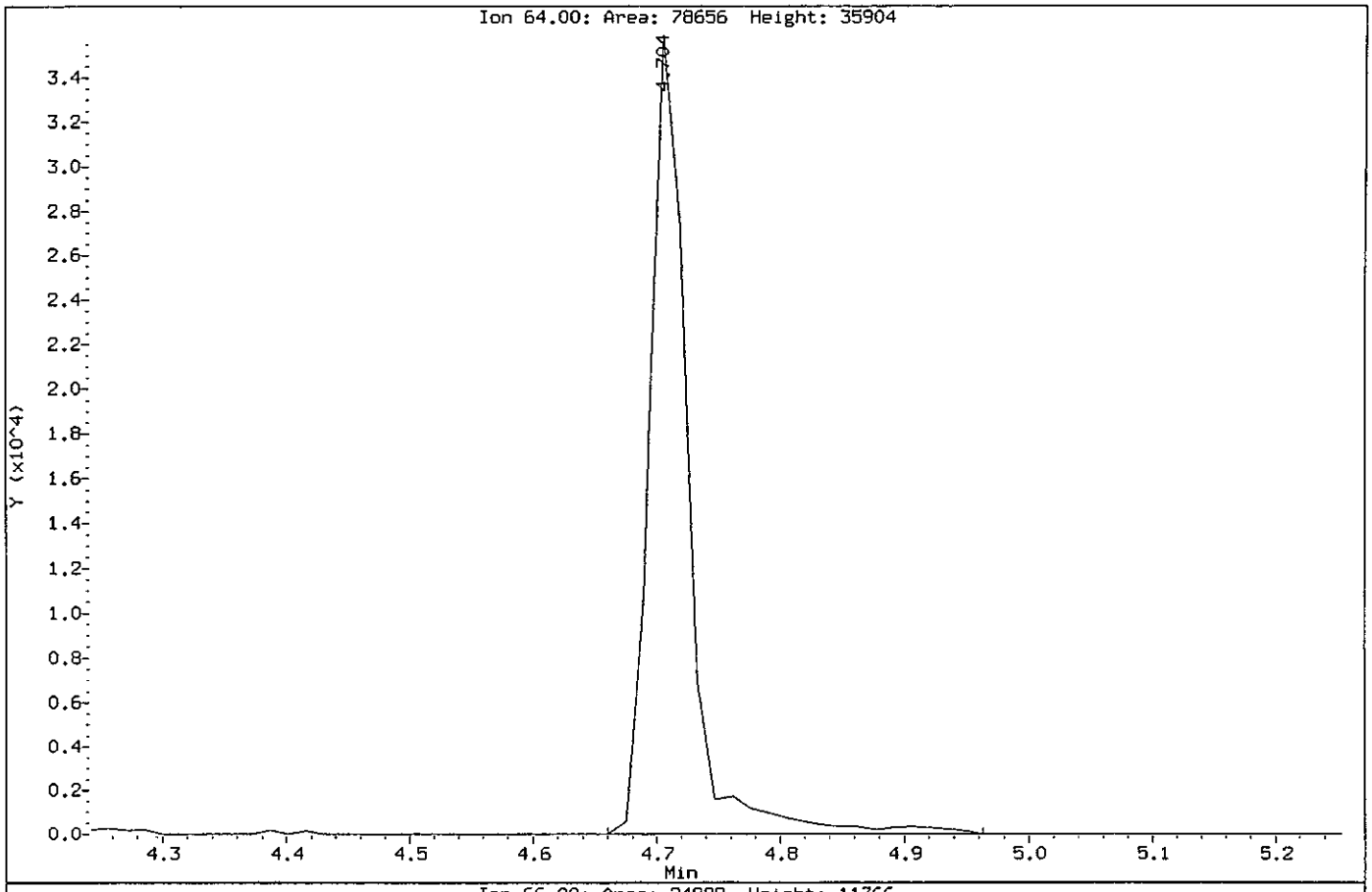
Compound: Dichlorodifluoromethane
CAS Number: 75-71-8

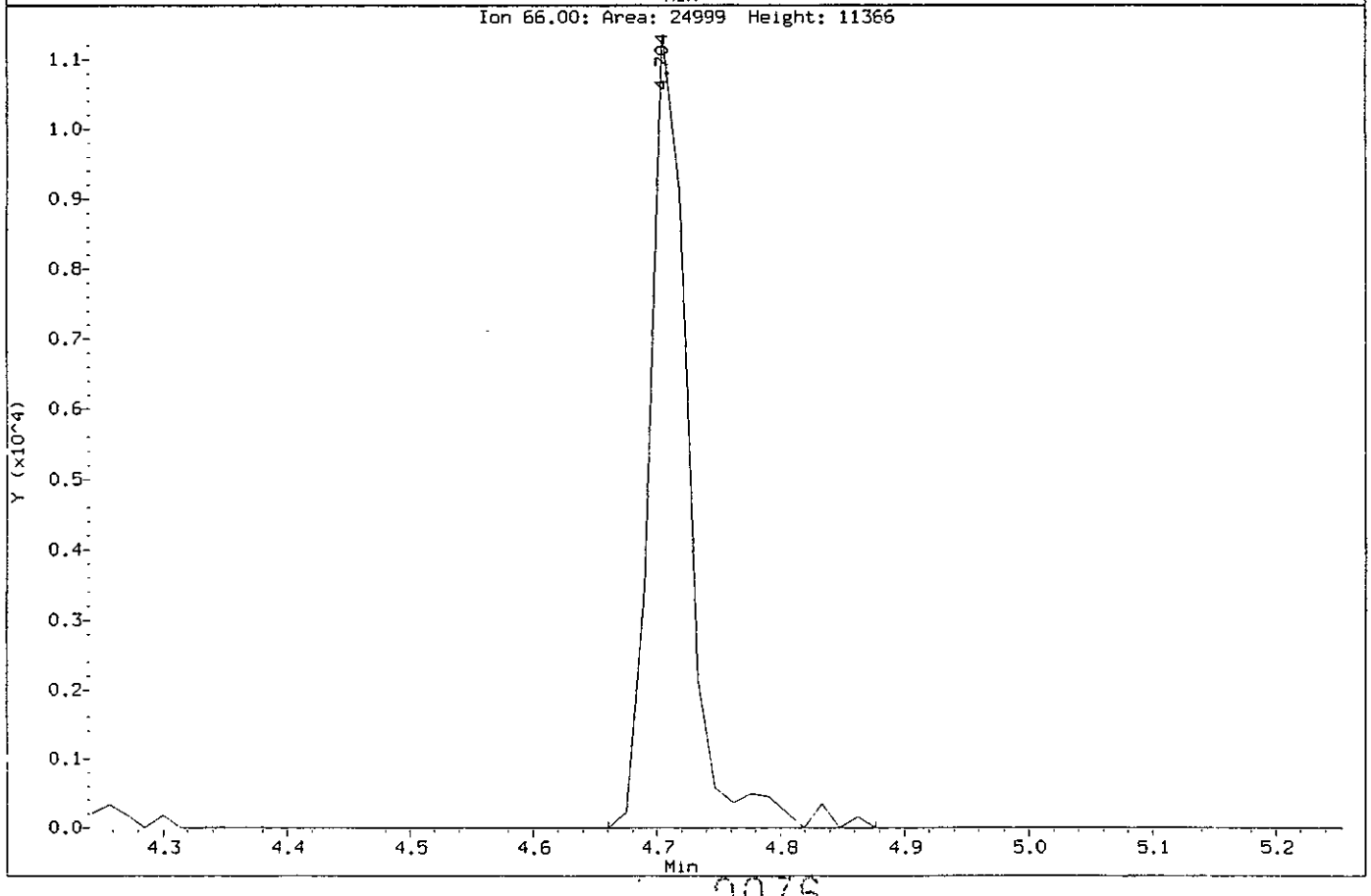




Data File: /chem/W.i/Wsvr.p/wckto14.b/ck010q.d
Injection Date: 08-MAY-2001 12:59
Instrument: W.i
Client Sample ID: C2_ICVLCS

Compound: Chloroethane
CAS Number: 75-00-3





STL Burlington

RECOVERY REPORT

Client Name: Client SDG:
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: C2_ICVLCS Client Smp ID: C2_ICVLCS
Level: LOW Operator: GMM
Data Type: MS DATA SampleType: LCS
SpikeList File: all.spk Quant Type: ISTD
Sublist File: all.sub
Method File: /chem/W.i/Wsvr.p/wckto14.b/bto14a.m
Misc Info:

SPIKE COMPOUND	CONC ADDED ppbv	CONC RECOVERED ppbv	% RECOVERED	LIMITS
1 Dichlorodifluorome	10	9.7	97.38	70-130
2 Chloromethane	10	9.8	98.51	70-130
3 Dichlorotetrafluor	10	10	99.82	70-130
4 Vinyl Chloride	10	9.4	94.26	70-130
5 Bromomethane	10	9.7	96.98	70-130
6 Chloroethane	10	10	102.83	70-130
7 Trichlorofluoromet	10	10	102.05	70-130
8 1,1-Dichloroethene	10	10	102.52	70-130
9 Methylene Chloride	10	9.1	90.93	70-130
10 Freon TF	10	10	100.91	70-130
11 1,1-Dichloroethane	10	9.9	99.47	70-130
12 cis-1,2-Dichloroet	10	9.7	96.95	70-130
14 Chloroform	10	10	100.36	70-130
15 1,2-Dichloroethane	10	10	102.94	70-130
16 1,1,1-Trichloroeth	10	10	101.89	70-130
17 Benzene	10	9.8	97.63	70-130
18 Carbon Tetrachlori	10	10	102.92	70-130
20 1,2-Dichloropropan	10	9.8	98.52	70-130
21 Trichloroethene	10	10	100.37	70-130
22 cis-1,3-Dichloropr	10	9.2	91.72	70-130
23 trans-1,3-Dichloro	10	8.9	88.95	70-130
24 1,1,2-Trichloroeth	10	9.8	98.02	70-130
25 Toluene	10	10	99.77	70-130
26 1,2-Dibromoethane	10	12	115.42	70-130
27 Tetrachloroethene	10	14	136.55*	70-130
29 Chlorobenzene	10	8.3	83.24	70-130
30 Ethylbenzene	10	8.3	82.63	70-130
31 Xylene (m,p)	20	15	75.44	70-130
32 Styrene	10	8.6	85.79	70-130
34 1,1,2,2-Tetrachlor	10	9.0	89.83	70-130
35 Xylene (o)	10	8.0	80.57	70-130
36 1,3,5-Trimethylben	10	9.6	95.93	70-130
37 1,2,4-Trimethylben	10	9.6	95.79	70-130

SPIKE COMPOUND	CONC ADDED ppbv	CONC RECOVERED ppbv	% RECOVERED	LIMITS
38 1,3-Dichlorobenzen	10	9.7	97.42	70-130
39 1,4-Dichlorobenzen	10	8.5	85.44	70-130
40 1,2-Dichlorobenzen	10	9.1	90.89	70-130
41 1,2,4-Trichloroben	10	8.7	87.44	70-130
42 Hexachlorobutadien	10	8.5	85.07	70-130

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

C2_ICVLCSD

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 82724

Matrix: (soil/water) AIR Lab Sample ID: C2_ICVLCSD

Sample wt/vol: 200(g/mL) ML Lab File ID: CK010QD

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

% Moisture: not dec. _____ Date Analyzed: 05/08/01

GC Column: DB-1 ID: 0.35 (mm) Dilution Factor: 1.0

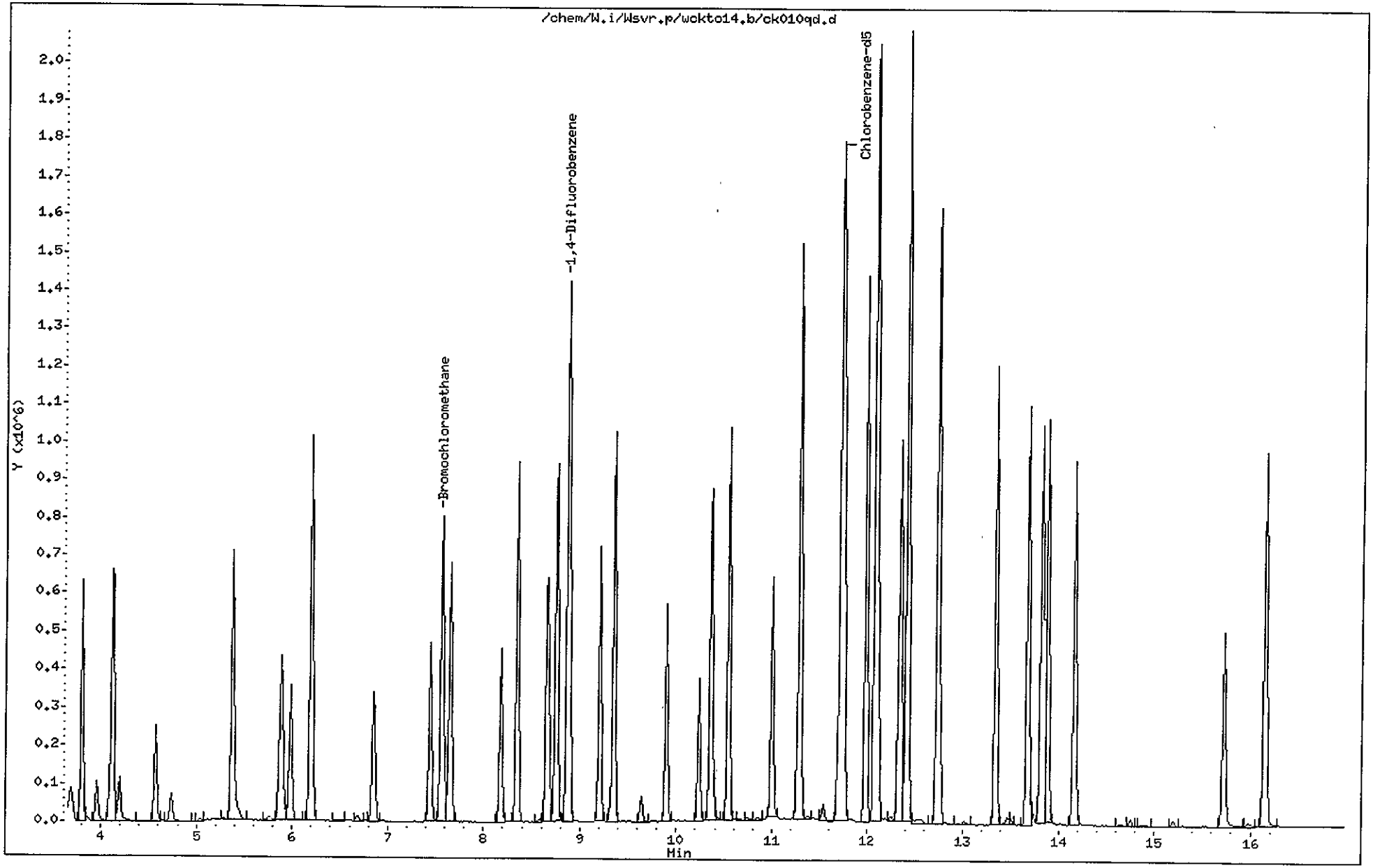
Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) PPBV	Q
74-87-3	Chloromethane	9.6	
75-01-4	Vinyl Chloride	9.1	
74-83-9	Bromomethane	9.6	
75-00-3	Chloroethane	9.3	
75-69-4	Trichlorofluoromethane	10	
75-09-2	Methylene Chloride	9.0	
75-34-3	1,1-Dichloroethane	9.6	
156-59-2	cis-1,2-Dichloroethene	9.9	
67-66-3	Chloroform	10	
71-55-6	1,1,1-Trichloroethane	10	
56-23-5	Carbon Tetrachloride	10	
71-43-2	Benzene	9.9	
107-06-2	1,2-Dichloroethane	10	
79-01-6	Trichloroethene	10	
78-87-5	1,2-Dichloropropane	9.9	
10061-01-5	cis-1,3-Dichloropropene	9.3	
108-88-3	Toluene	9.9	
10061-02-6	trans-1,3-Dichloropropene	8.9	
79-00-5	1,1,2-Trichloroethane	9.8	
127-18-4	Tetrachloroethene	14	
108-90-7	Chlorobenzene	10	
100-41-4	Ethylbenzene	12	
1330-20-7	Xylene (total)	30	
100-42-5	Styrene	10	
1330-20-7	Xylene (m,p)	21	
95-47-6	Xylene (o)	8.6	
79-34-5	1,1,2,2-Tetrachloroethane	9.7	
541-73-1	1,3-Dichlorobenzene	10	
106-46-7	1,4-Dichlorobenzene	8.3	
95-50-1	1,2-Dichlorobenzene	9.2	

Data File: /chem/W.i/Wsvr.p/wckto14.b/ck010qd.d
Date : 08-MAY-2001 13:34
Client ID: C2_ICVLCSD
Sample Info: C2_LCSD;C2_LCSD
Purge Volume: 200.0
Column phase: DB-1

Instrument: W.i

Operator: GMM
Column diameter: 0.35



0800

STL Burlington

AIR TOXICS QUANTITATION REPORT

Data file : /chem/W.i/Wsvr.p/wckto14.b/ck010qd.d
Lab Smp Id: C2_ICVLCSD Client Smp ID: C2_ICVLCSD
Inj Date : 08-MAY-2001 13:34
Operator : GMM Inst ID: W.i
Smp Info : C2_LCSD;C2_LCSD
Misc Info :
Comment :
Method : /chem/W.i/Wsvr.p/wckto14.b/bto14a.m
Meth Date : 14-May-2001 14:27 mim Quant Type: ISTD
Cal Date : 08-MAY-2001 11:18 Cal File: ck040.d
Als bottle: 1 QC Sample: LCSD
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ACCANA2.sub
Target Version: 3.50
Processing Host: chemsvr4

Concentration Formula: Amt * DF * X* Uf/Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
X	200.00000	method volume factor
Uf	1.00000	ng unit correction factor
Vo	200.00000	Sample Volume purged (mL)

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	FINAL (ppbv)
2	Chloromethane	50	3.960	4.056	(0.523)	108709	9.63553	9.6
4	Vinyl Chloride	62	4.191	4.258	(0.553)	108614	9.13948	9.1
5	Bromomethane	94	4.566	4.604	(0.603)	155988	9.59766	9.6(M)
6	Chloroethane	64	4.739	4.748	(0.625)	70738	9.26138	9.3(M)
7	Trichlorofluoromethane	101	5.376	5.346	(0.710)	667539	10.0227	10
9	Methylene Chloride	49	5.983	5.907	(0.790)	210215	8.95743	9.0
11	1,1-Dichloroethane	63	6.848	6.742	(0.904)	365634	9.60374	9.6
12	cis-1,2-Dichloroethene	61	7.440	7.319	(0.982)	295111	9.90928	9.9
* 13	Bromochloromethane	128	7.576	7.440	(1.000)	255632	10.0000	
14	Chloroform	83	7.652	7.516	(1.010)	570448	10.0913	10
15	1,2-Dichloroethane	62	8.183	8.032	(1.080)	416984	10.1750	10
16	1,1,1-Trichloroethane	97	8.350	8.214	(1.102)	596513	10.1597	10
17	Benzene	78	8.669	8.533	(0.976)	621528	9.91800	9.9
18	Carbon Tetrachloride	117	8.760	8.639	(0.986)	623887	10.3327	10

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	FINAL (ppbv)
*	19 1,4-Difluorobenzene	114	8.882	8.745	(1.000)	1148074	10.0000	
	20 1,2-Dichloropropane	63	9.200	9.079	(1.036)	211544	9.86450	9.9
	21 Trichloroethene	95	9.352	9.231	(1.053)	340688	10.1181	10
	22 cis-1,3-Dichloropropene	75	9.898	9.777	(1.114)	299379	9.28670	9.3
	23 trans-1,3-Dichloropropene	75	10.232	10.111	(1.152)	200089	8.93082	8.9
	24 1,1,2-Trichloroethane	83	10.369	10.247	(1.167)	255268	9.81967	9.8
	25 Toluene	92	10.551	10.445	(0.900)	478924	9.92775	9.9
	27 Tetrachloroethene	166	11.294	11.188	(0.964)	503260	13.5511	14(R)
*	28 Chlorobenzene-d5	117	11.719	11.613	(1.000)	1107733	10.0000	
	29 Chlorobenzene	112	11.750	11.644	(1.003)	654353	10.5496	10
	30 Ethylbenzene	91	11.977	11.871	(1.022)	1138320	11.6029	12
	31 Xylene (m,p)	106	12.099	11.993	(1.032)	835028	21.1383	21
	32 Styrene	104	12.342	12.235	(1.053)	532778	10.5139	10
M	33 Xylene (total)	106				1166017	30.1952	30
	34 1,1,2,2-Tetrachloroethane	83	12.417	12.311	(1.060)	614624	9.69552	9.7
	35 Xylene (o)	106	12.417	12.311	(1.060)	330989	8.57129	8.6(Q)
	38 1,3-Dichlorobenzene	146	13.829	13.738	(1.180)	598549	10.3300	10(H)
	39 1,4-Dichlorobenzene	146	13.874	13.799	(1.184)	529789	8.32638	8.3
	40 1,2-Dichlorobenzene	146	14.163	14.087	(1.208)	487969	9.17663	9.2

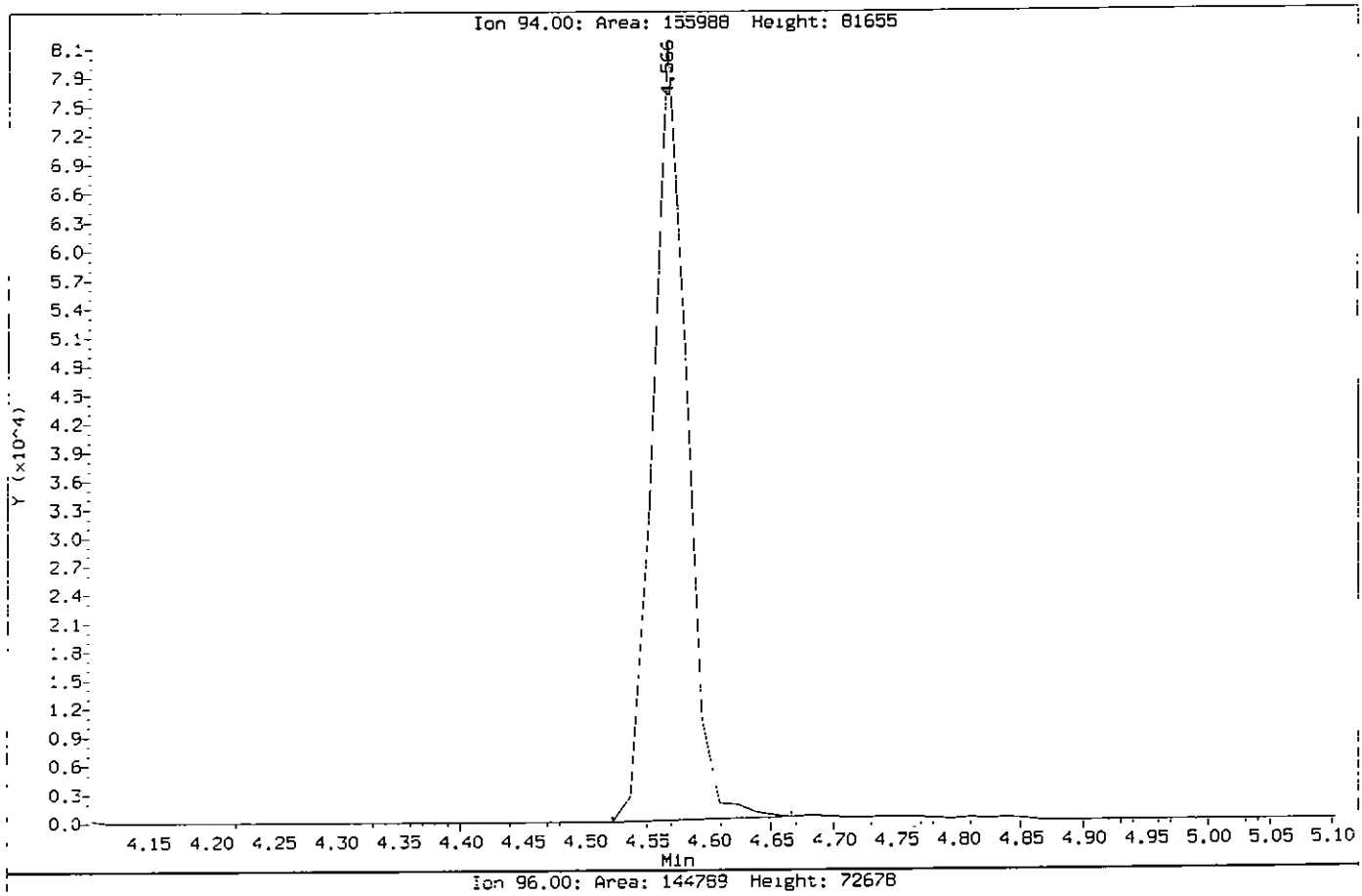
QC Flag Legend

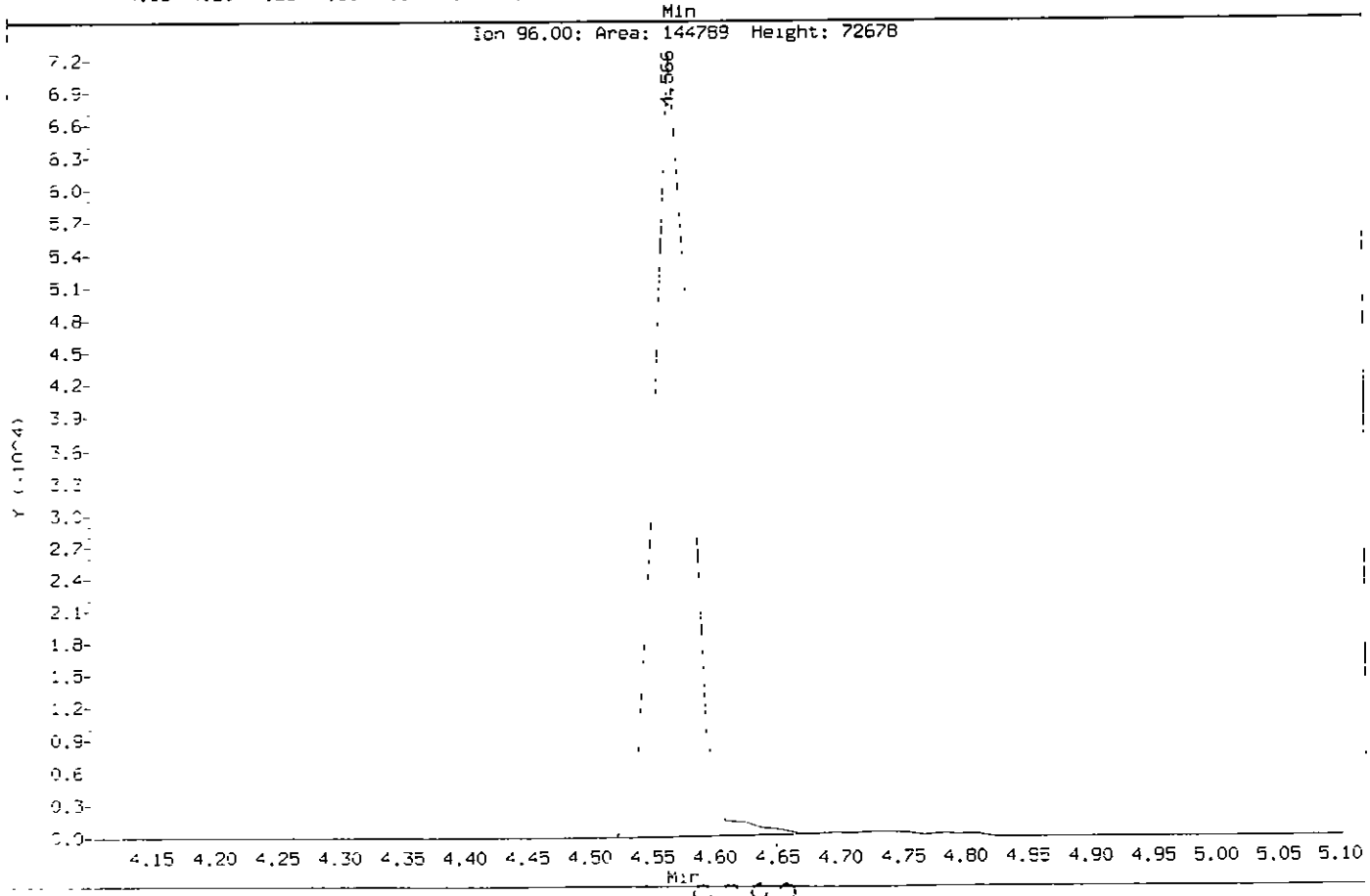
Q - Qualifier signal failed the ratio test.
R - Spike/Surrogate failed recovery limits.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

MLM 05/14/01

Data File: /chem/W.1/Wsvr.b/wckto14.b/ck010qd.d
Injection Date: 08-MAY-2001 13:34
Instrument: W.1
Client Sample ID: C2_ICVLCSD

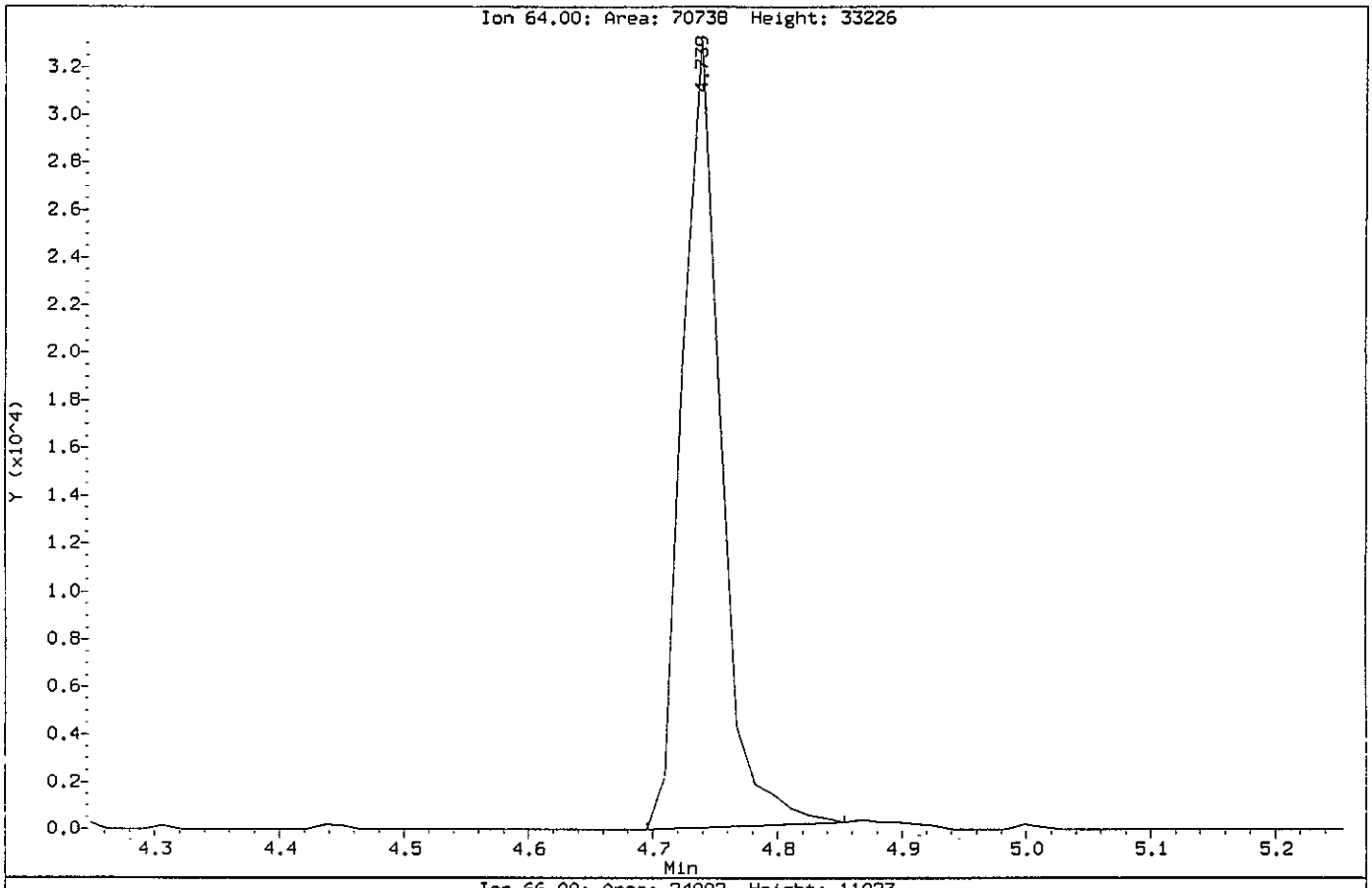
Compound: Bromomethane
CAS Number: 74-83-9

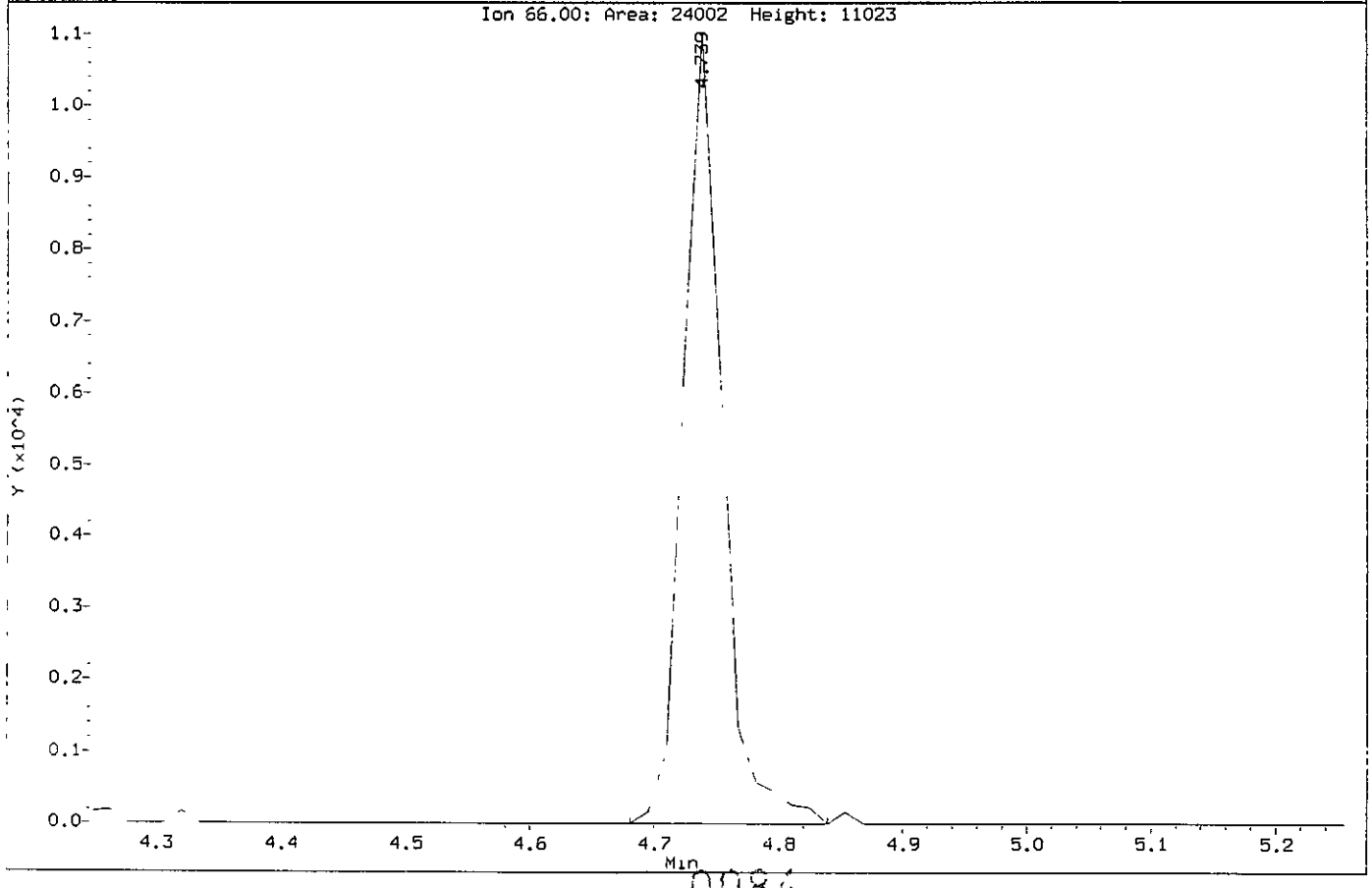




Data File: /chem/W.i/Wsvr.p/wckto14.b/ck010qd.d
Injection Date: 08-MAY-2001 13:34
Instrument: W.i
Client Sample ID: C2_ICVLCSD

Compound: Chloroethane
CAS Number: 75-00-3





STL Burlington

RECOVERY REPORT

Client Name:
Sample Matrix: GAS
Lab Smp Id: C2_ICVLCSD
Level: LOW
Data Type: MS DATA
SpikeList File: ACCANA2.spk
Sublist File: ACCANA2.sub
Method File: /chem/W.i/Wsvr.p/wckto14.b/bto14a.m
Misc Info:

Client SDG:
Fraction: VOA
Client Smp ID: C2_ICVLCSD
Operator: GMM
SampleType: LCSD
Quant Type: ISTD

SPIKE COMPOUND	CONC ADDED ppbv	CONC RECOVERED ppbv	% RECOVERED	LIMITS
2 Chloromethane	10	9.6	96.36	70-130
4 Vinyl Chloride	10	9.1	91.39	70-130
5 Bromomethane	10	9.6	95.98	70-130
6 Chloroethane	10	9.3	92.61	70-130
7 Trichlorofluoromet	10	10	100.23	70-130
9 Methylene Chloride	10	9.0	89.57	70-130
11 1,1-Dichloroethane	10	9.6	96.04	70-130
12 cis-1,2-Dichloroet	10	9.9	99.09	70-130
14 Chloroform	10	10	100.91	70-130
15 1,2-Dichloroethane	10	10	101.75	70-130
16 1,1,1-Trichloroeth	10	10	101.60	70-130
17 Benzene	10	9.9	99.18	70-130
18 Carbon Tetrachlori	10	10	103.33	70-130
20 1,2-Dichloropropan	10	9.9	98.64	70-130
21 Trichloroethene	10	10	101.18	70-130
22 cis-1,3-Dichloropr	10	9.3	92.87	70-130
23 trans-1,3-Dichloro	10	8.9	89.31	70-130
24 1,1,2-Trichloroeth	10	9.8	98.20	70-130
25 Toluene	10	9.9	99.28	70-130
27 Tetrachloroethene	10	14	135.51*	70-130
29 Chlorobenzene	10	10	105.50	70-130
30 Ethylbenzene	10	12	116.03	70-130
31 Xylene (m,p)	20	21	105.69	70-130
32 Styrene	10	10	105.14	70-130
34 1,1,2,2-Tetrachlor	10	9.7	96.96	70-130
35 Xylene (o)	10	8.6	85.71	70-130
38 1,3-Dichlorobenzen	10	10	103.30	70-130
39 1,4-Dichlorobenzen	10	8.3	83.26	70-130
40 1,2-Dichlorobenzen	10	9.2	91.77	70-130

SEVERN
TRENT
SERVICES

Severn Trent Laboratories, Inc.

SAMPLE PREPARATION

Severn Trent Laboratories VT
Instrument Run Log
Instrument [illegible]

Batch: [illegible]
Opened: 5 / [illegible] / [illegible] Time: [illegible]
Closed: 5 / [illegible] / [illegible] Time: [illegible]

ETR # | SDG #

Tune ✓
ISTD Tag # [illegible]

Temp [illegible] °C B.P. [illegible] Hg

INJ TIME	LAB ID	CAN ID #	CLIENT ID	ETR #	INLET #	SAMPLE VOLUME (mL)	DILUTION FACTOR	ISTD RECOVERY	CONC	ANALYST	COMMENTS
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]			[illegible]	
[illegible]	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]					[illegible]
[illegible]	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]					[illegible]
1008	[illegible]					[illegible]					
[illegible]	[illegible]		[illegible]			[illegible]					
[illegible]	[illegible]		[illegible]			[illegible]					
[illegible]	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]					[illegible]
[illegible]	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]		✓			
1440	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]					
1518	452170	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		✓			[illegible]
1554	452171	[illegible]	[illegible]		[illegible]			✓			[illegible]
1632	452172	[illegible]	[illegible]		4			✓			[illegible]
1707	452173	[illegible]	[illegible]		5			✓	✓		[illegible]
1744	[illegible]	[illegible]	[illegible]	[illegible]	6			✓	✓		[illegible]
1821	[illegible]	[illegible]	[illegible]		7			✓	✓		[illegible]
1856	[illegible]	[illegible]	[illegible]		8			✓	✓		[illegible]
1932	[illegible]	[illegible]	[illegible]		9			✓			[illegible]
2007	[illegible]	[illegible]	[illegible]	[illegible]	11			✓	✓		[illegible]
2042	[illegible]	[illegible]	[illegible]	[illegible]	12			✓			[illegible]
0713	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]	[illegible]	✓			[illegible]

0087

SEVERN
TRENT
SERVICES

Severn Trent Laboratories, Inc.

SAMPLE HANDLING

FedEx Express USA Airbill

FedEx Tracking Number 828023556285

Form I.D. No. 0200

1 From

Date 4. 2 [redacted]

Sender's Name Daily Dunkop Phone 904 777-4312

Company CCI/J.A. Jones

Address 6219 Authority Avenue Dept./Floor/Suite/Room

City Jacksonville State FL ZIP 32221

2 Your Internal Billing Reference [illegible]

3 To

Recipient's Name [illegible] Phone 802 655-[illegible]

Company [illegible]

Address 20X South Park Drive

To "HOLD" at FedEx location, print FedEx address. We cannot deliver to P.O. boxes or P.O. ZIP codes

Suite 1 Dept./Floor/Suite/Room

City Lebanon State VT ZIP 05446

8280 2355 6285

4a Express Package Service — *Packages up to 150 lbs.* Delivery commitment may be later in some areas

- FedEx Priority Overnight — Next business morning
- FedEx Standard Overnight — Next business afternoon
- FedEx First Overnight — Earliest next business morning delivery to select locations
- ✓ FedEx 2Day — Second business day
- FedEx Express Saver — Third business day
- NEW FedEx Extra Hours — Later drop off with next business afternoon delivery for select locations

FedEx Envelope rate not available. Minimum charge: One pound rate

4b Express Freight Service — *Packages over 150 lbs.* Delivery commitment may be later in some areas

- FedEx 1Day Freight* — Next business day
- FedEx 2Day Freight — Second business day
- FedEx 3Day Freight — Third business day

* Call for Confirmation

5 Packaging — * Declared value limit $500

- FedEx Envelope*
- FedEx Pak* — Includes FedEx Small Pak, FedEx Large Pak, and FedEx Sturdy Pak
- ✓ Other Pkg — Includes FedEx Box, FedEx Tube, and customer pkg

6 Special Handling — Include FedEx address in Section 3

- SATURDAY Delivery — Available only for FedEx Priority Overnight and FedEx 2Day to select ZIP codes
- SUNDAY Delivery — Available only for FedEx Priority Overnight to select ZIP codes
- HOLD Weekday at FedEx Location — Not available with FedEx First Overnight
- HOLD Saturday at FedEx Location — Available only for FedEx Priority Overnight and FedEx 2Day to select locations

Does this shipment contain dangerous goods? One box must be checked

- ✓ No
- Yes — As per attached Shipper's Declaration
- Dry Ice — Dry Ice, 9, UN 1845 x kg
- Cargo Aircraft Only

Dangerous Goods (incl. Dry Ice) cannot be shipped in FedEx packaging or with FedEx Extra Hours service.

7 Payment *Bill to:* Enter FedEx Acct. No. or Credit Card No. below. Obtain Recip. Acct. No.

- ✓ Sender — Acct. No. in Section 1 will be billed
- Recipient
- Third Party
- Credit Card
- Cash/Check

[redacted] [redacted]

Total Packages	Total Weight	Total Declared Value†	Total Charges
1	3	$ 00	Credit Card Auth.

†Our liability is limited to $100 unless you declare a higher value. See back for details.

8 Release Signature — Sign to authorize delivery without obtaining signature

[signature] 4-30-01 0930

By signing you authorize us to deliver this shipment without obtaining a signature and agree to indemnify and hold us harmless from any resulting claims.

Questions? Visit our Web site at fedex.com

or call 1-800-Go FedEx (800)463-3339

Rev. Date 12/00 • Part #155915 • © 1994-2000 FedEx • PRINTED IN U.S.A. GBFE 3/01

404

0089

SEVERN TRENT LABORATORIES LOG-IN SHEET - Form DC-1

Lab Name: Severn Trent Laboratories - VT

Received By (Print Name): Frank Bessette

Log-in Date: 5-1-01

Received By (Signature):

Case Number: 20031

Sample Delivery Group No: 82724

ETR Number: 82724

REMARKS:

1. **Custody Seal** ~~Present~~/~~Absent~~* ~~Intact~~/~~Broken~~
2. **Custody Seal Nos.:**
3. **Chain-of-Custody Records** ~~Present~~/~~Absent~~*
4. **Sample Information Sheets** ~~Present~~/~~Absent~~*
5. **Airbill** ~~Airbill~~/~~Sticker~~ ~~Present~~/~~Absent~~*
6. **Airbill No.:** 782023556285
7. **Sample Tags** ~~Present~~/~~Absent~~* **Sample Tag Numbers** ~~Listed~~/~~Not Listed~~ on Chain-of-Custody
8. **Sample Condition:** ~~Intact~~/~~Broken~~* ~~Leaking~~
9. **Does information on the custody records, sample information sheets, sample tags and labels agree?** ~~Yes~~/~~No~~*
10. **Date Received at Lab:** 4-30-01
11. **Time Received:** 0930
12. **Cooler Temperature:** N/A

Sample Transfer

Fraction: All

Area #: Level 4

By: FAB

On: 4-30-01

CORRESPONDING			
CLIENT SAMPLE #	SAMPLE TAG #	ASSIGNED LAB #	REMARKS: CONDITION OF SAMPLE SHIPMENT, ETC.
029SVE2RCH20111	NA	451721	Were air bubbles present in any VOA vials? NA
			Samples recd intact in a box with unbroken custody seals present.
			For sample transcription, removed dashes.

4/30-01

* Contact Project Director

Reviewed by: 5/3/01

Date

Logbook No.:

Logbook Page No.:

** COOLER RECEIPT CHECKLIST **

WERE CUSTODY SEALS PRESENT ON THE COOLERS?

(YES) NO

IF SO, WERE THERE CUSTODY SEAL NUMBERS?

YES (NO)

LIST THE CUSTODY SEAL NUMBERS. / /

WHAT TYPE OF COOLING WAS UTILIZED?

ICE MELTED ICE PACKS (NONE)

COOLER TEMPERATURE (degrees c): Box

DATE AND TIME COOLER RECEIVED: 4-30-01 0930

DO SAMPLES APPEAR TO BE INTACT: (YES) NO

DO ANY SAMPLES HAVE SHORT HOLDING TIMES?
(less than seven days)

WET CHEM	**YES**	(NO)
EXTRACTABLES	**YES**	(NO)
UNPRES VOA	**YES**	(NO)

RADIATION SCREEN RESULTS <0.05 MR/HR (YES) NO

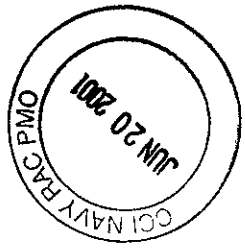
SEVERN TRENT SERVICES

Severn Trent Laboratories, Inc.

SAMPLE DATA SUMMARY PACKAGE

SDG NO: 83075

AAL# 28087



SEVERN TRENT SERVICES

STL Burlington
208 South Park Drive
Suite 1
Colchester, VT 05446

Tel: 802 655 1203
Fax: 802 655 1248
www.stl-inc.com

June 5, 2001

Ms. Bonnie Hogue
Accura Analytical Laboratories
6017 Financial Drive
Norcross, GA 30071

Re: Laboratory Project No. 20031
Case: 20031; SDG: 83075

Dear Ms. Hogue:

Enclosed are the analytical results of samples received intact by Severn Trent Laboratories on May 23, 2001. Laboratory numbers have been assigned and designated as follows:

Lab ID	Client Sample ID	Sample Date	Sample Matrix
	Received: 05/23/01 ETR No: 83075		
454594	029SVEEA05210112	05/21/01	Air

Method TO-14A Modified-Volatile Organics;
Please note that due to a limitation of characters inherent in the reporting software, some characters of the client identification above were truncated.

The volatile organic analyses of the blank spike sample E7_LCS and duplicate sample exhibited percent recoveries of the target compounds Chloromethane and Toluene that were below the control criteria. These exceedences are identified on the associated Form IIIs.

Please note that client specific matrix spike/matrix spike duplicate samples were not performed, nor requested with this sample delivery group.

If there are any questions regarding this submittal, please contact Ron Pentkowski at (802) 655-1203.

This report shall not be reproduced, except in full, without the written approval of the laboratory. This report is sequentially numbered starting with page 0001 and ending with page 110.

SEVERN TRENT SERVICES

STL Burlington

I certify that this package is in compliance with the NELAC requirements, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Director or his designee, as verified by the following signature.

Sincerely,

Christopher A. Ouellette
Laboratory Director

RAP/kag
Enclosure

Severn Trent Laboratories, Inc.

SAMPLE DATA SUMMARY PACKAGE

FOR TO-14A

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

ACCANA SAMPLE NO.

EA05210112

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 83075

Matrix: (soil/water) AIR Lab Sample ID: 454594

Sample wt/vol: 200(g/mL) ML Lab File ID: 454594I2

Level: (low/med) LOW Date Received: 05/23/01

% Moisture: not dec. _____ Date Analyzed: 05/29/01

GC Column: DB-1 ID: 0.35 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) PPBV	Q
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl Chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-09-2	Methylene Chloride	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	1.1	
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
56-23-5	Carbon Tetrachloride	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	2.8	
78-87-5	1,2-Dichloropropane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-88-3	Toluene	0.51	
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	1.2	
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
1330-20-7	Xylene (m,p)	1.8	
100-42-5	Styrene	0.50	U
95-47-6	Xylene (o)	1.3	
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

ACCANA SAMPLE NO.

EA05210112

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 83075

Matrix: (soil/water) AIR Lab Sample ID: 454594

Sample wt/vol: 200(g/mL) ML Lab File ID: 454594I2

Level: (low/med) LOW Date Received: 05/23/01

% Moisture: not dec. _____ Date Analyzed: 05/29/01

GC Column: DB-1 ID: 0.35 (mm) Dilution Factor: 1.0

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

Number TICs found: 10

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

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		UNKNOWN ALCOHOL	17.54	29	J
2.		UNKNOWN	17.72	50	J
3.		UNKNOWN AROMATIC COMPOUND	18.38	25	J
4.		UNKNOWN	18.51	48	J
5.		UNKNOWN AROMATIC COMPOUND	18.98	43	J
6.		UNKNOWN	19.15	52	J
7.		UNKNOWN	19.55	27	J
8.		UNKNOWN	19.64	28	J
9.		UNKNOWN	19.70	70	J
10.		UNKNOWN	19.96	26	J
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
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29.					
30.					

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ABLKE7

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 83075

Matrix: (soil/water) AIR Lab Sample ID: ABLKE7

Sample wt/vol: 200(g/mL) ML Lab File ID: CXB001J

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

% Moisture: not dec. _____ Date Analyzed: 05/29/01

GC Column: DB-1 ID: 0.35 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) PPBV	Q
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl Chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-09-2	Methylene Chloride	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
56-23-5	Carbon Tetrachloride	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-88-3	Toluene	0.50	U
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
1330-20-7	Xylene (m,p)	0.50	U
100-42-5	Styrene	0.50	U
95-47-6	Xylene (o)	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

ABLKE7

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 83075

Matrix: (soil/water) AIR Lab Sample ID: ABLKE7

Sample wt/vol: 200(g/mL) ML Lab File ID: CXB001J

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

% Moisture: not dec. _____ Date Analyzed: 05/29/01

GC Column: DB-1 ID: 0.35 (mm) Dilution Factor: 1.0

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

Number TICs found: 1

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

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	127-19-5	ACETAMIDE, N,N-DIMETHYL-	16.84	1.2	NJ
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
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FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

E7_LCS

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 83075

Matrix: (soil/water) AIR Lab Sample ID: E7_LCS

Sample wt/vol: 200(g/mL) ML Lab File ID: CX010JQ

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

% Moisture: not dec. _____ Date Analyzed: 05/29/01

GC Column: DB-1 ID: 0.35 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) PPBV	Q
74-87-3	Chloromethane	6.5	
75-01-4	Vinyl Chloride	7.3	
74-83-9	Bromomethane	8.8	
75-00-3	Chloroethane	8.5	
75-69-4	Trichlorofluoromethane	9.2	
75-09-2	Methylene Chloride	8.1	
75-34-3	1,1-Dichloroethane	8.1	
156-59-2	cis-1,2-Dichloroethene	8.7	
67-66-3	Chloroform	8.8	
71-55-6	1,1,1-Trichloroethane	9.6	
56-23-5	Carbon Tetrachloride	13	
71-43-2	Benzene	9.6	
107-06-2	1,2-Dichloroethane	8.9	
79-01-6	Trichloroethene	11	
78-87-5	1,2-Dichloropropane	10	
10061-01-5	cis-1,3-Dichloropropene	13	
108-88-3	Toluene	14	
10061-02-6	trans-1,3-Dichloropropene	12	
79-00-5	1,1,2-Trichloroethane	12	
127-18-4	Tetrachloroethene	8.4	
108-90-7	Chlorobenzene	8.3	
100-41-4	Ethylbenzene	9.4	
1330-20-7	Xylene (m,p)	16	
100-42-5	Styrene	7.6	
95-47-6	Xylene (o)	9.2	
79-34-5	1,1,2,2-Tetrachloroethane	9.5	
541-73-1	1,3-Dichlorobenzene	11	
106-46-7	1,4-Dichlorobenzene	11	
95-50-1	1,2-Dichlorobenzene	11	

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

E7_LCSD

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 83075

Matrix: (soil/water) AIR Lab Sample ID: E7_LCSD

Sample wt/vol: 200(g/mL) ML Lab File ID: CX010JQD

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

% Moisture: not dec. _____ Date Analyzed: 05/29/01

GC Column: DB-1 ID: 0.35 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) PPBV	Q
74-87-3	Chloromethane	6.6	
75-01-4	Vinyl Chloride	8.4	
74-83-9	Bromomethane	10	
75-00-3	Chloroethane	9.2	
75-69-4	Trichlorofluoromethane	10	
75-09-2	Methylene Chloride	8.8	
75-34-3	1,1-Dichloroethane	8.6	
156-59-2	cis-1,2-Dichloroethene	9.7	
67-66-3	Chloroform	9.9	
71-55-6	1,1,1-Trichloroethane	8.4	
56-23-5	Carbon Tetrachloride	13	
71-43-2	Benzene	8.5	
107-06-2	1,2-Dichloroethane	8.2	
79-01-6	Trichloroethene	10	
78-87-5	1,2-Dichloropropane	9.4	
10061-01-5	cis-1,3-Dichloropropene	12	
108-88-3	Toluene	15	
10061-02-6	trans-1,3-Dichloropropene	10	
79-00-5	1,1,2-Trichloroethane	13	
127-18-4	Tetrachloroethene	8.3	
108-90-7	Chlorobenzene	8.4	
100-41-4	Ethylbenzene	9.2	
1330-20-7	Xylene (m,p)	14	
100-42-5	Styrene	8.1	
95-47-6	Xylene (o)	9.0	
79-34-5	1,1,2,2-Tetrachloroethane	9.2	
541-73-1	1,3-Dichlorobenzene	11	
106-46-7	1,4-Dichlorobenzene	11	
95-50-1	1,2-Dichlorobenzene	11	

FORM 3
AIR VOLATILE LAB CONTROL SAMPLE

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 83075

Matrix Spike - Sample No.: E7_LCS

COMPOUND	SPIKE ADDED (ppbv)	SAMPLE CONCENTRATION (ug/L)	LCS CONCENTRATION (ppbv)	LCS % REC #	QC. LIMITS REC.
Chloromethane	10		6.5	65*	70-130
Vinyl Chloride	10		7.3	73	70-130
Bromomethane	10		8.8	88	70-130
Chloroethane	10		8.5	85	70-130
Trichlorofluoromethane	10		9.2	92	70-130
Methylene Chloride	10		8.1	81	70-130
1,1-Dichloroethane	10		8.1	81	70-130
cis-1,2-Dichloroethene	10		8.7	87	70-130
Chloroform	10		8.8	88	70-130
1,1,1-Trichloroethane	10		9.6	96	70-130
Carbon Tetrachloride	10		13	130	70-130
Benzene	10		9.6	96	70-130
1,2-Dichloroethane	10		8.9	89	70-130
Trichloroethene	10		11	110	70-130
1,2-Dichloropropane	10		10	100	70-130
cis-1,3-Dichloropropene	10		13	130	70-130
Toluene	10		14	140*	70-130
trans-1,3-Dichloroprope	10		12	120	70-130
1,1,2-Trichloroethane	10		12	120	70-130
Tetrachloroethene	10		8.4	84	70-130
Chlorobenzene	10		8.3	83	70-130
Ethylbenzene	10		9.4	94	70-130
Xylene (m,p)	20		16	80	70-130
Styrene	10		7.6	76	70-130
Xylene (o)	10		9.2	92	70-130
1,1,2,2-Tetrachloroetha	10		9.5	95	70-130
1,3-Dichlorobenzene	10		11	110	70-130
1,4-Dichlorobenzene	10		11	110	70-130

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

* Values outside of QC limits

COMMENTS: _____

FORM 3
AIR VOLATILE LAB CONTROL SAMPLE

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 83075

Matrix Spike - Sample No.: E7_LCS

COMPOUND	SPIKE ADDED (ppbv)	SAMPLE CONCENTRATION (ug/L)	LCS CONCENTRATION (ppbv)	LCS % REC #	QC. LIMITS REC.
1,2-Dichlorobenzene	10		11	110	70-130

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

* Values outside of QC limits

COMMENTS: _____

FORM 3
AIR VOLATILE LAB CONTROL SAMPLE

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 83075

Matrix Spike - Sample No.: E7_LCS

COMPOUND	SPIKE ADDED (ppbv)	LCSD CONCENTRATION (ppbv)	LCSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Chloromethane	10	6.6	66*	2	40	70-130
Vinyl Chloride	10	8.4	84	14	40	70-130
Bromomethane	10	10	100	13	40	70-130
Chloroethane	10	9.2	92	8	40	70-130
Trichlorofluoromethane	10	10	100	8	40	70-130
Methylene Chloride	10	8.8	88	8	40	70-130
1,1-Dichloroethane	10	8.6	86	6	40	70-130
cis-1,2-Dichloroethene	10	9.7	97	11	40	70-130
Chloroform	10	9.9	99	12	40	70-130
1,1,1-Trichloroethane	10	8.4	84	13	40	70-130
Carbon Tetrachloride	10	13	130	0	40	70-130
Benzene	10	8.5	85	12	40	70-130
1,2-Dichloroethane	10	8.2	82	8	40	70-130
Trichloroethene	10	10	100	10	40	70-130
1,2-Dichloropropane	10	9.4	94	6	40	70-130
cis-1,3-Dichloropropene	10	12	120	8	40	70-130
Toluene	10	15	150*	7	40	70-130
trans-1,3-Dichloroprope	10	10	100	18	40	70-130
1,1,2-Trichloroethane	10	13	130	8	40	70-130
Tetrachloroethene	10	8.3	83	1	40	70-130
Chlorobenzene	10	8.4	84	1	40	70-130
Ethylbenzene	10	9.2	92	2	40	70-130
Xylene (m,p)	20	14	70	13	40	70-130
Styrene	10	8.1	81	6	40	70-130
Xylene (o)	10	9.0	90	2	40	70-130
1,1,2,2-Tetrachloroetha	10	9.2	92	3	40	70-130
1,3-Dichlorobenzene	10	11	110	0	40	70-130
1,4-Dichlorobenzene	10	11	110	0	40	70-130

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

* Values outside of QC limits

COMMENTS: _____

FORM 3
AIR VOLATILE LAB CONTROL SAMPLE

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 83075

Matrix Spike - Sample No.: E7_LCS

COMPOUND	SPIKE ADDED (ppbv)	LCSD CONCENTRATION (ppbv)	LCSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
1,2-Dichlorobenzene	10	11	110	0	40	70-130

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

* Values outside of QC limits

RPD: 0 out of 29 outside limits
Spike Recovery: 4 out of 58 outside limits

COMMENTS: _____

FORM 4
VOLATILE METHOD BLANK SUMMARY

CLIENT SAMPLE NO.

ABLKE7

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 83075

Lab File ID: CXB001J Lab Sample ID: ABLKE7

Date Analyzed: 05/29/01 Time Analyzed: 1705

GC Column: DB-1 ID: 0.35 (mm) Heated Purge: (Y/N) N

Instrument ID: X

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

	SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	E7_LCS	E7_LCS	CX010JQ	1525
02	E7_LCSD	E7_LCSD	CX010JQD	1558
03	EA05210112	454594	454594I2	1935
04				
05				
06				
07				
08				
09				
10				
11				
12				
13				
14				
15				
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COMMENTS:

FORM 5
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 83075

Lab File ID: CX001P BFB Injection Date: 05/09/01

Instrument ID: X BFB Injection Time: 0947

GC Column: DB-1 ID: 0.32 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	15.4
75	30.0 - 66.0% of mass 95	48.1
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	5.6
173	Less than 2.0% of mass 174	0.7 (0.8)1
174	50.0 - 120.0% of mass 95	92.8
175	4.0 - 9.0% of mass 174	6.7 (7.2)1
176	93.0 - 101.0% of mass 174	91.6 (98.7)1
177	5.0 - 9.0% of mass 176	5.9 (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:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	ASTD010	ASTD010	CX010	05/09/01	1129
02	ASTD005	ASTD005	CX005	05/09/01	1204
03	ASTD0005	ASTD0005	CX0005	05/09/01	1313
04	ASTD040	ASTD040	CX040I2	05/09/01	1353
05	ASTD020	ASTD020	CX020I2	05/09/01	1441
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
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20					
21					
22					

FORM 5
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 83075

Lab File ID: CX011P BFB Injection Date: 05/29/01

Instrument ID: X BFB Injection Time: 1306

GC Column: DB-1 ID: 0.32 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	15.8
75	30.0 - 66.0% of mass 95	50.2
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.1
173	Less than 2.0% of mass 174	0.8 (0.7)1
174	50.0 - 120.0% of mass 95	105.1
175	4.0 - 9.0% of mass 174	7.2 (6.8)1
176	93.0 - 101.0% of mass 174	101.0 (96.1)1
177	5.0 - 9.0% of mass 176	6.7 (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	CCV	CCV	CX010J	05/29/01	1435
02	E7_LCS	E7_LCS	CX010JQ	05/29/01	1525
03	E7_LCSD	E7_LCSD	CX010JQD	05/29/01	1558
04	ABLKE7	ABLKE7	CXB001J	05/29/01	1705
05	EA05210112	454594	454594I2	05/29/01	1935
06					
07					
08					
09					
10					
11					
12					
13					
14					
15					
16					
17					
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19					
20					
21					
22					

6A
VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 83075

Instrument ID: X Calibration Date(s): 05/09/01 05/09/01

Heated Purge: (Y/N) N Calibration Time(s): 1129 1441

GC Column: DB-1 ID: 0.35 (mm)

LAB FILE ID: RRF0.5=CX0005 RRF5 =CX005
RRF10 =CX010 RRF20 =CX020I2 RRF40 =CX040I2

COMPOUND		RRF0.5	RRF5	RRF10	RRF20	RRF40	$\overline{RRF}$	% RSD
Chloromethane		0.527	0.449	0.456	0.352	0.386	0.434	15.6
Vinyl Chloride		0.480	0.508	0.510	0.355	0.427	0.456	14.4
Bromomethane		0.723	0.694	0.694	0.432	0.612	0.631	18.8
Chloroethane		0.289	0.289	0.263	0.188	0.229	0.252	17.2
Trichlorofluoromethane		3.367	3.330	2.849	2.383	2.572	2.900	15.2
Methylene Chloride		0.881	0.778	0.668	0.643	0.642	0.722	14.5
1,1-Dichloroethane	*	1.517	1.261	1.164	1.085	1.115	1.228	14.2*
cis-1,2-Dichloroethene		1.030	0.920	0.845	0.793	0.860	0.890	10.2
Chloroform		2.325	2.095	1.850	1.681	1.762	1.943	13.6
1,1,1-Trichloroethane		0.906	0.744	0.473	0.457	0.496	0.615	32.6
Carbon Tetrachloride		0.227	0.296	0.204	0.175	0.218	0.224	20.0
Benzene		0.429	0.440	0.450	0.416	0.450	0.437	3.4
1,2-Dichloroethane		0.550	0.487	0.278	0.256	0.279	0.370	37.2
Trichloroethene		0.246	0.313	0.205	0.222	0.244	0.246	16.7
1,2-Dichloropropane		0.125	0.170	0.135	0.124	0.145	0.140	13.5
cis-1,3-Dichloropropene		0.134	0.170	0.127	0.159	0.212	0.160	21.1
Toluene		0.222	0.340	0.340	0.336	0.337	0.315	16.6
trans-1,3-Dichloropropene		0.117	0.121	0.097	0.132	0.194	0.132	27.7
1,1,2-Trichloroethane		0.262	0.239	0.235	0.191	0.182	0.222	15.3
Tetrachloroethene		0.294	0.423	0.407	0.426	0.440	0.398	14.9
Chlorobenzene	*	0.625	0.604	0.572	0.525	0.537	0.573	7.5*
Ethylbenzene		0.644	1.435	1.044	0.861	0.892	0.975	30.2
Xylene (m,p)		0.477	0.454	0.357	0.317	0.324	0.386	19.4
Styrene		0.434	0.532	0.579	0.377	0.441	0.473	17.3
Xylene (o)		0.386	0.427	0.447	0.214	0.326	0.360	26.0
1,1,2,2-Tetrachloroethane		0.801	0.815	0.860	0.434	0.541	0.690	27.5
1,3-Dichlorobenzene		0.723	0.900	0.881	0.566	0.697	0.753	18.4
1,4-Dichlorobenzene		0.547	0.840	0.815	0.543	0.670	0.683	20.7
1,2-Dichlorobenzene		0.567	0.819	0.796	0.513	0.639	0.667	20.4

* Compounds with required minimum RRF and maximim %RSD values.
All other compounds must meet a minimim RRF of 0.010.

FORM 7
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 83075

Instrument ID: X Calibration Date: 05/29/01 Time: 1435

Lab File ID: CX010J Init. Calib. Date(s): 05/09/01 05/09/01

Heated Purge: (Y/N) N Init. Calib. Times: 1129 1441

GC Column: DB-1 ID: 0.35 (mm)

COMPOUND	$\overline{RRF}$	RRF10	MIN RRF	%D	MAX %D	
Chloromethane	0.434	0.259	0.01	40.3	30.0	<-
Vinyl Chloride	0.456	0.359	0.01	21.3	30.0	
Bromomethane	0.631	0.646	0.01	2.4	30.0	
Chloroethane	0.252	0.188	0.01	25.4	30.0	
Trichlorofluoromethane	2.900	2.685	0.01	7.4	30.0	
Methylene Chloride	0.722	0.596	0.01	17.4	30.0	
1,1-Dichloroethane	1.228	1.024	0.1	16.6	30.0	
cis-1,2-Dichloroethene	0.890	0.795	0.01	10.7	30.0	
Chloroform	1.943	1.785	0.01	8.1	30.0	
1,1,1-Trichloroethane	0.615	0.536	0.01	12.8	30.0	
Carbon Tetrachloride	0.224	0.259	0.01	15.6	30.0	
Benzene	0.437	0.391	0.01	10.5	30.0	
1,2-Dichloroethane	0.370	0.319	0.01	13.8	30.0	
Trichloroethene	0.246	0.261	0.01	6.1	30.0	
1,2-Dichloropropane	0.140	0.130	0.01	7.1	30.0	
cis-1,3-Dichloropropene	0.160	0.199	0.01	24.4	30.0	
Toluene	0.315	0.429	0.01	36.2	30.0	<-
trans-1,3-Dichloropropene	0.132	0.148	0.01	12.1	30.0	
1,1,2-Trichloroethane	0.222	0.259	0.01	16.7	30.0	
Tetrachloroethene	0.398	0.515	0.01	29.4	30.0	
Chlorobenzene	0.573	0.456	0.3	20.4	30.0	
Ethylbenzene	0.975	0.829	0.01	15.0	30.0	
Xylene (m,p)	0.386	0.277	0.01	28.2	30.0	
Styrene	0.473	0.335	0.01	29.2	30.0	
Xylene (o)	0.360	0.284	0.01	21.1	30.0	
1,1,2,2-Tetrachloroethane	0.690	0.565	0.01	18.1	30.0	
1,3-Dichlorobenzene	0.753	0.672	0.01	10.8	30.0	
1,4-Dichlorobenzene	0.683	0.666	0.01	2.5	30.0	
1,2-Dichlorobenzene	0.667	0.600	0.01	10.0	30.0	

FORM 8
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 83075

Lab File ID (Standard): CX010J Date Analyzed: 05/29/01

Instrument ID: X Time Analyzed: 1435

GC Column: DB-1 ID: 0.35 (mm) Heated Purge: (Y/N) N

		IS1 (BCM) AREA #	RT #	IS2 (CBZ) AREA #	RT #	IS3 (DFB) AREA #	RT #
	12 HOUR STD	224501	8.68	547056	15.25	815946	10.59
	UPPER LIMIT	538802	9.01	1312934	15.58	1958270	10.92
	LOWER LIMIT	89800	8.35	218822	14.92	326378	10.26
	CLIENT SAMPLE NO.						
01	E7_LCS	244237	8.48	502849	15.22	834410	10.47
02	E7_LCSD	231297	8.38	514902	15.18	925065	10.36
03	ABLKE7	193236	8.36	790401	15.16	847556	10.35
04	EA05210112	199405	8.74	967040	15.25	716453	10.62
05							
06							
07							
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12							
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22							

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

AREA UPPER LIMIT = +140% of internal standard area
AREA LOWER LIMIT = - 60% of internal standard area
RT UPPER LIMIT = + 0.33 minutes of internal standard RT
RT LOWER LIMIT = - 0.33 minutes of internal standard RT

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

83075

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NARRATIVE

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SEVERN TRENT SERVICES

STL Burlington
208 South Park Drive
Suite 1
Colchester, VT 05446

Tel: 802 655 1203
Fax: 802 655 1248
www.stl-inc com

June 5, 2001

Ms. Bonnie Hogue
Accura Analytical Laboratories
6017 Financial Drive
Norcross, GA 30071

Re: Laboratory Project No. 20031
Case: 20031; SDG: 83075

Dear Ms. Hogue:

Enclosed are the analytical results of samples received intact by Severn Trent Laboratories on May 23, 2001. Laboratory numbers have been assigned and designated as follows:

Lab ID	Client Sample ID	Sample Date	Sample Matrix
	Received: 05/23/01 ETR No: 83075		
454594	029SVEEA05210112	05/21/01	Air

Method TO-14A Modified-Volatile Organics;
Please note that due to a limitation of characters inherent in the reporting software, some characters of the client identification above were truncated.

The volatile organic analyses of the blank spike sample E7_LCS and duplicate sample exhibited percent recoveries of the target compounds Chloromethane and Toluene that were below the control criteria. These exceedences are identified on the associated Form IIIs.

Please note that client specific matrix spike/matrix spike duplicate samples were not performed, nor requested with this sample delivery group.

If there are any questions regarding this submittal, please contact Ron Pentkowski at (802) 655-1203.

This report shall not be reproduced, except in full, without the written approval of the laboratory. This report is sequentially numbered starting with page 0001 and ending with page 110.

SEVERN TRENT SERVICES

STL Burlington

I certify that this package is in compliance with the NELAC requirements, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on diskette has been authorized by the Laboratory Director or his designee, as verified by the following signature.

Sincerely,

Christopher A. Ouellette
Laboratory Director

RAP/kag
Enclosure

SEVERN TRENT SERVICES

STL Burlington

The following Qualifiers may be used when reporting any Organic parameters analyzed by Gas Chromatography/mass Spectometry (GCMS). Any additional qualifiers used in the reports will be described in the case narrative. These flags are based on the EPA Contract Laboratory Program statement of work.

GC/MS Qualifiers

A- The reported Tentatively Identified Compound (TIC) is a suspected Aldol-condensation product.

B- The reported analyte was detected in the associated method blank as well as the sample.

D - This flag identifies all compounds identified in an analysis at a secondary dilution factor. This flag alerts data users that any discrepancies between the concentrations reported for the dilutions may be due to dilution of the sample or extract. It additionally indicates that spike recoveries may have been diluted below quantifiable levels.

E- Compound quantitation is above the instrument's calibration range for this analysis.

J - Indicates an estimated value. This flag is used when the result is less than the reporting limit, but > ½ reporting limit.

U- Indicates compound was analyzed for but not detected above the reporting limit.

X,Y,Z - Laboratory defined flags. These flags must be fully described, and such description attached to the Sample Data Summary Package and the case Narrative. Begin by using "X" and go on to "Y" as necessary. These flags may also be used to combine several flags, as needed.

		Ron Pentkowski	Accura Analytical Laboratory	601 / Financial Drive Norcross, GA 30071 (770) 449-8800 Fax:(770) 449-5477
PROJECT PHASE/SITE/TASK	CTO OR DO NUMBER	LAB PO NUMBER	FAX AND MAIL REPORTS/EDD TO RECIPIENT 2 (Name and Company)	RECIPIENT 2 (Address, Tel No , and Fax No)
103rd Street Monthly Air Sample	0029	1760	Jennifer Zimmerman / J.A Jones Env. Services	6219 Authority Ave. Building 1 Jacksonville, FL 32215 (904) 7774812 FAX: (904) 7774262
PROJECT CONTACT	PROJECT TEL NO AND FAX NO	LAB TEL NO AND FAX NO	FAX AND MAIL REPORTS/EDD TO RECIPIENT 3 (Name and Company)	RECIPIENT 3 (Address, Tel No , and Fax No)
Bill Canelos	Ph:(904)777-4812 Fax:(904) 777-4262	Ph:(802) 655-1203	Jeff Wilmoth / CH2M Hill Constuctors, Inc.	115 Perimeter Center Place, N.E. Suite 700 Atlanta, GA 30346 (770)604-9182 Ext.561 FAX:604-9282

ITEM	SAMPLE IDENTIFIER	SAMPLE DESCRIPTION/LOCATION	MATRIX (see codes on back)	DATE COLLECTED	TIME COLLECTED	DATA PKG LEVEL (see codes on back)	TAT (calendar days)	ANALYSES REQUIRED (Include Method Numbers) Volatiles by 18 / TO 14										SAMPLE TYPE (see codes on back)	COMMENTS/ SCREENING READINGS	LAB ID
1	029-SVE-E-A-0521-01-12	SVE Effluent	A	05/21/01	9:40	III/B	7	1										Grab	Summa Canister	
2																				
3																				
4																				
5																				
6																				
7																				
8																				
9																				
10																				

SAMPLER(S) AND COMPANY (please print)	COURIER AND SHIPPING NUMBER	SAMPLES TEMPERATURE AND CONDITION UPON RECEIPT
Randy Dumaop / Scott Sloan J.A. Jones Environmental Services	Federal Express TRK# 790056117579.	

RELINQUISHED BY	DATE	TIME	RECEIVED BY	DATE	TIME
Printed Name and Signature			Printed Name and Signature		
R.Dumaop Printed Name and Signature	5/21/01	15:00	Federal Express Printed Name and Signature	5/21/01	15:00
			(Illegible) Printed Name and Signature	05-23-01	0930
Printed Name and Signature					

Distribution [ ] Original - Laboratory (To be returned with Analytical Report), [ ] Copy 1 - Project File, [ ] Copy 2 - PMO

Form CC1001, Rev 02/00

SEVERN TRENT SERVICES

Severn Trent Laboratories, Inc.

METHOD TO-14A
VOLATILE ORGANIC ANALYSIS

QC SUMMARY

FORM 3
AIR VOLATILE LAB CONTROL SAMPLE

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 83075

Matrix Spike - Sample No.: E7_LCS

COMPOUND	SPIKE ADDED (ppbv)	SAMPLE CONCENTRATION (ug/L)	LCS CONCENTRATION (ppbv)	LCS % REC #	QC. LIMITS REC.
Chloromethane	10		6.5	65*	70-130
Vinyl Chloride	10		7.3	73	70-130
Bromomethane	10		8.8	88	70-130
Chloroethane	10		8.5	85	70-130
Trichlorofluoromethane	10		9.2	92	70-130
Methylene Chloride	10		8.1	81	70-130
1,1-Dichloroethane	10		8.1	81	70-130
cis-1,2-Dichloroethene	10		8.7	87	70-130
Chloroform	10		8.8	88	70-130
1,1,1-Trichloroethane	10		9.6	96	70-130
Carbon Tetrachloride	10		13	130	70-130
Benzene	10		9.6	96	70-130
1,2-Dichloroethane	10		8.9	89	70-130
Trichloroethene	10		11	110	70-130
1,2-Dichloropropane	10		10	100	70-130
cis-1,3-Dichloropropene	10		13	130	70-130
Toluene	10		14	140*	70-130
trans-1,3-Dichloroprope	10		12	120	70-130
1,1,2-Trichloroethane	10		12	120	70-130
Tetrachloroethene	10		8.4	84	70-130
Chlorobenzene	10		8.3	83	70-130
Ethylbenzene	10		9.4	94	70-130
Xylene (m,p)	20		16	80	70-130
Styrene	10		7.6	76	70-130
Xylene (o)	10		9.2	92	70-130
1,1,2,2-Tetrachloroetha	10		9.5	95	70-130
1,3-Dichlorobenzene	10		11	110	70-130
1,4-Dichlorobenzene	10		11	110	70-130

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

* Values outside of QC limits

COMMENTS: _____

FORM 3
AIR VOLATILE LAB CONTROL SAMPLE

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 83075

Matrix Spike - Sample No.: E7_LCS

COMPOUND	SPIKE ADDED (ppbv)	SAMPLE CONCENTRATION (ug/L)	LCS CONCENTRATION (ppbv)	LCS % REC #	QC. LIMITS REC.
1,2-Dichlorobenzene	10		11	110	70-130

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

* Values outside of QC limits

COMMENTS: _____

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FORM 3
AIR VOLATILE LAB CONTROL SAMPLE

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 83075

Matrix Spike - Sample No.: E7_LCS

COMPOUND	SPIKE ADDED (ppbv)	LCSD CONCENTRATION (ppbv)	LCSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Chloromethane	10	6.6	66*	2	40	70-130
Vinyl Chloride	10	8.4	84	14	40	70-130
Bromomethane	10	10	100	13	40	70-130
Chloroethane	10	9.2	92	8	40	70-130
Trichlorofluoromethane	10	10	100	8	40	70-130
Methylene Chloride	10	8.8	88	8	40	70-130
1,1-Dichloroethane	10	8.6	86	6	40	70-130
cis-1,2-Dichloroethene	10	9.7	97	11	40	70-130
Chloroform	10	9.9	99	12	40	70-130
1,1,1-Trichloroethane	10	8.4	84	13	40	70-130
Carbon Tetrachloride	10	13	130	0	40	70-130
Benzene	10	8.5	85	12	40	70-130
1,2-Dichloroethane	10	8.2	82	8	40	70-130
Trichloroethene	10	10	100	10	40	70-130
1,2-Dichloropropane	10	9.4	94	6	40	70-130
cis-1,3-Dichloropropene	10	12	120	8	40	70-130
Toluene	10	15	150*	7	40	70-130
trans-1,3-Dichloroprope	10	10	100	18	40	70-130
1,1,2-Trichloroethane	10	13	130	8	40	70-130
Tetrachloroethene	10	8.3	83	1	40	70-130
Chlorobenzene	10	8.4	84	1	40	70-130
Ethylbenzene	10	9.2	92	2	40	70-130
Xylene (m,p)	20	14	70	13	40	70-130
Styrene	10	8.1	81	6	40	70-130
Xylene (o)	10	9.0	90	2	40	70-130
1,1,2,2-Tetrachloroetha	10	9.2	92	3	40	70-130
1,3-Dichlorobenzene	10	11	110	0	40	70-130
1,4-Dichlorobenzene	10	11	110	0	40	70-130

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

* Values outside of QC limits

COMMENTS: _____

FORM 3
AIR VOLATILE LAB CONTROL SAMPLE

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 83075

Matrix Spike - Sample No.: E7_LCS

COMPOUND	SPIKE ADDED (ppbv)	LCSD CONCENTRATION (ppbv)	LCSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
1,2-Dichlorobenzene	10	11	110	0	40	70-130

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

* Values outside of QC limits

RPD: 0 out of 29 outside limits
Spike Recovery: 4 out of 58 outside limits

COMMENTS: _____

FORM 4
VOLATILE METHOD BLANK SUMMARY

CLIENT SAMPLE NO.

ABLKE7

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 83075

Lab File ID: CXB001J Lab Sample ID: ABLKE7

Date Analyzed: 05/29/01 Time Analyzed: 1705

GC Column: DB-1 ID: 0.35 (mm) Heated Purge: (Y/N) N

Instrument ID: X

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

	SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	E7_LCS	E7_LCS	CX010JQ	1525
02	E7_LCSD	E7_LCSD	CX010JQD	1558
03	EA05210112	454594	454594I2	1935
04				
05				
06				
07				
08				
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29				
30				

COMMENTS:

FORM 5
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 83075

Lab File ID: CX001P BFB Injection Date: 05/09/01

Instrument ID: X BFB Injection Time: 0947

GC Column: DB-1 ID: 0.32 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	15.4
75	30.0 - 66.0% of mass 95	48.1
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	5.6
173	Less than 2.0% of mass 174	0.7 (0.8)1
174	50.0 - 120.0% of mass 95	92.8
175	4.0 - 9.0% of mass 174	6.7 (7.2)1
176	93.0 - 101.0% of mass 174	91.6 (98.7)1
177	5.0 - 9.0% of mass 176	5.9 (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:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	ASTD010	ASTD010	CX010	05/09/01	1129
02	ASTD005	ASTD005	CX005	05/09/01	1204
03	ASTD0005	ASTD0005	CX0005	05/09/01	1313
04	ASTD040	ASTD040	CX040I2	05/09/01	1353
05	ASTD020	ASTD020	CX020I2	05/09/01	1441
06					
07					
08					
09					
10					
11					
12					
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15					
16					
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FORM 5
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 83075

Lab File ID: CX011P BFB Injection Date: 05/29/01

Instrument ID: X BFB Injection Time: 1306

GC Column: DB-1 ID: 0.32 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	8.0 - 40.0% of mass 95	15.8
75	30.0 - 66.0% of mass 95	50.2
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.1
173	Less than 2.0% of mass 174	0.8 (0.7)1
174	50.0 - 120.0% of mass 95	105.1
175	4.0 - 9.0% of mass 174	7.2 (6.8)1
176	93.0 - 101.0% of mass 174	101.0 (96.1)1
177	5.0 - 9.0% of mass 176	6.7 (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	CCV	CCV	CX010J	05/29/01	1435
02	E7_LCS	E7_LCS	CX010JQ	05/29/01	1525
03	E7_LCSD	E7_LCSD	CX010JQD	05/29/01	1558
04	ABLKE7	ABLKE7	CXB001J	05/29/01	1705
05	EA05210112	454594	454594I2	05/29/01	1935
06					
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08					
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FORM 8
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 83075

Lab File ID (Standard): CX010J Date Analyzed: 05/29/01

Instrument ID: X Time Analyzed: 1435

GC Column: DB-1 ID: 0.35 (mm) Heated Purge: (Y/N) N

		IS1 (BCM) AREA #	RT #	IS2 (CBZ) AREA #	RT #	IS3 (DFB) AREA #	RT #
	12 HOUR STD	224501	8.68	547056	15.25	815946	10.59
	UPPER LIMIT	538802	9.01	1312934	15.58	1958270	10.92
	LOWER LIMIT	89800	8.35	218822	14.92	326378	10.26
	CLIENT SAMPLE NO.						
01	E7_LCS	244237	8.48	502849	15.22	834410	10.47
02	E7_LCSD	231297	8.38	514902	15.18	925065	10.36
03	ABLKE7	193236	8.36	790401	15.16	847556	10.35
04	EA05210112	199405	8.74	967040	15.25	716453	10.62
05							
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21							
22							

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

AREA UPPER LIMIT = +140% of internal standard area
AREA LOWER LIMIT = - 60% of internal standard area
RT UPPER LIMIT = + 0.33 minutes of internal standard RT
RT LOWER LIMIT = - 0.33 minutes of internal standard RT

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

SEVERN TRENT SERVICES

Severn Trent Laboratories, Inc.

METHOD TO-14A
VOLATILE ORGANIC ANALYSIS

SUPPORTIVE DOCUMENTATION

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

ACCANA SAMPLE NO.

EA05210112

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 83075

Matrix: (soil/water) AIR Lab Sample ID: 454594

Sample wt/vol: 200(g/mL) ML Lab File ID: 45459412

Level: (low/med) LOW Date Received: 05/23/01

% Moisture: not dec. _____ Date Analyzed: 05/29/01

GC Column: DB-1 ID: 0.35 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) PPBV	Q
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl Chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-09-2	Methylene Chloride	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	1.1	
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
56-23-5	Carbon Tetrachloride	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	2.8	
78-87-5	1,2-Dichloropropane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-88-3	Toluene	0.51	
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	1.2	
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
1330-20-7	Xylene (m,p)	1.8	
100-42-5	Styrene	0.50	U
95-47-6	Xylene (o)	1.3	
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

ACCANA SAMPLE NO.

EA05210112

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 83075

Matrix: (soil/water) AIR Lab Sample ID: 454594

Sample wt/vol: 200(g/mL) ML Lab File ID: 454594I2

Level: (low/med) LOW Date Received: 05/23/01

% Moisture: not dec. _____ Date Analyzed: 05/29/01

GC Column: DB-1 ID: 0.35 (mm) Dilution Factor: 1.0

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

Number TICs found: 10

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

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		UNKNOWN ALCOHOL	17.54	29	J
2.		UNKNOWN	17.72	50	J
3.		UNKNOWN AROMATIC COMPOUND	18.38	25	J
4.		UNKNOWN	18.51	48	J
5.		UNKNOWN AROMATIC COMPOUND	18.98	43	J
6.		UNKNOWN	19.15	52	J
7.		UNKNOWN	19.55	27	J
8.		UNKNOWN	19.64	28	J
9.		UNKNOWN	19.70	70	J
10.		UNKNOWN	19.96	26	J
11.					
12.					
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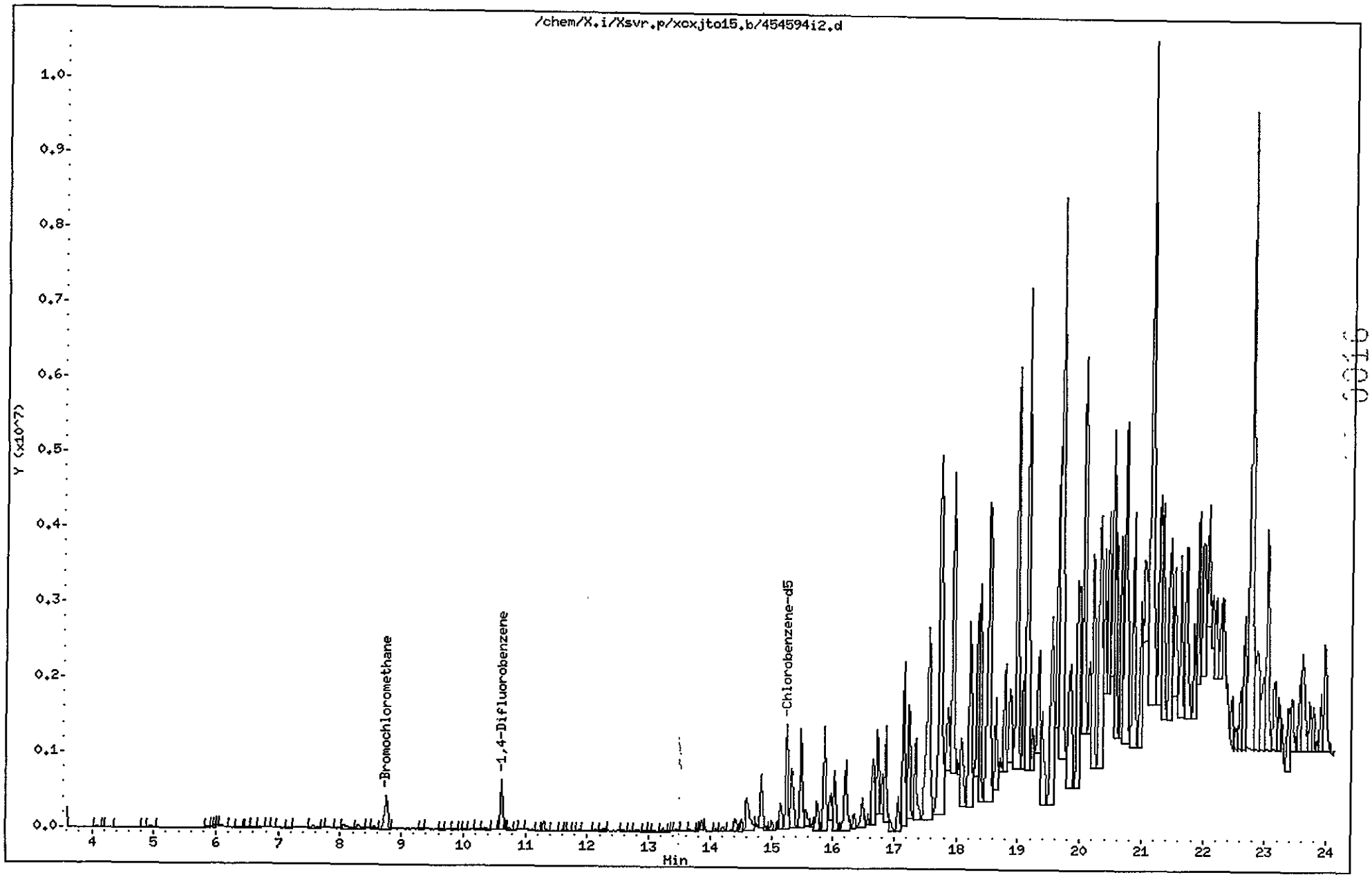
Data File: /chem/X.i/Xsvr.p/xcxjto15.b/454594i2.d
Date : 29-MAY-2001 19:35
Client ID: EA05210112
Sample Info: 454594;EA05210112;83075;0529E7
Purge Volume: 200.0
Column phase: DB-1

Instrument: X.i

Operator: GMH
Column diameter: 0.35



STL Burlington

AIR TOXICS QUANTITATION REPORT

Data file : /chem/X.i/Xsvr.p/xcxjto15.b/45459412.d
Lab Smp Id: 454594 Client Smp ID: EA05210112
Inj Date : 29-MAY-2001 19:35
Operator : GMM Inst ID: X.i
Smp Info : 454594;EA05210112;83075;0529E7
Misc Info : 200mL
Comment :
Method : /chem/X.i/Xsvr.p/xcxjto15.b/ato15.m
Meth Date : 04-Jun-2001 15:35 dmg Quant Type: ISTD
Cal Date : 09-MAY-2001 14:41 Cal File: cx020i2.d
Als bottle: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ACCANA2.sub
Target Version: 3.50
Processing Host: chemsvr4

Concentration Formula: Amt * DF * X* Uf/Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
X	200.00000	method volume factor
Uf	1.00000	ng unit correction factor
Vo	200.00000	Sample Volume purged (mL)

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv,	FINAL (ppbv)
2	Chloromethane	50	Compound Not Detected.					
4	Vinyl Chloride	62	Compound Not Detected.					
6	Bromomethane	94	Compound Not Detected.					
7	Chloroethane	64	Compound Not Detected.					
10	Trichlorofluoromethane	101	Compound Not Detected.					
13	Methylene Chloride	49	Compound Not Detected.					
18	1,1-Dichloroethane	63	Compound Not Detected.					
21	cis-1,2-Dichloroethene	61	8.543	8.088	(0.977)	19647	1.10751	1.1(QH)
* 22	Bromochloromethane	128	8.740	8.255	(1.000)	199405	10.0000	
24	Chloroform	83	Compound Not Detected.					
26	1,2-Dichloroethane	62	Compound Not Detected.					
27	1,1,1-Trichloroethane	97	Compound Not Detected.					
28	Benzene	78	Compound Not Detected.					
29	Carbon Tetrachloride	117	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	FINAL (ppbv)
* 31	1,4-Difluorobenzene	114	10.622	10.258	(1.000)	716453	10.0000	
32	1,2-Dichloropropane	63	Compound Not Detected.					
34	Trichloroethene	95	11.290	10.987	(1.063)	49218	2.79079	2.8
38	cis-1,3-Dichloropropene	75	Compound Not Detected.					
40	trans-1,3-Dichloropropene	75	Compound Not Detected.					
41	1,1,2-Trichloroethane	83	Compound Not Detected.					
42	Toluene	92	13.232	13.020	(0.868)	15463	0.50729	0.51
46	Tetrachloroethene	166	14.507	14.340	(0.951)	45306	1.17728	1.2
* 47	Chlorobenzene-d5	117	15.251	15.099	(1.000)	967040	10.0000	
48	Chlorobenzene	112	Compound Not Detected.					
49	Ethylbenzene	91	Compound Not Detected.					
50	Xylene (m,p)	106	15.964	15.828	(1.047)	68802	1.84356	1.8
52	Styrene	104	Compound Not Detected.					
53	1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					
54	Xylene (o)	106	16.571	16.435	(1.087)	45850	1.31614	1.3
59	1,3-Dichlorobenzene	146	Compound Not Detected.					
60	1,4-Dichlorobenzene	146	Compound Not Detected.					
61	1,2-Dichlorobenzene	146	Compound Not Detected.					

QC Flag Legend

Q - Qualifier signal failed the ratio test.
H - Operator selected an alternate compound hit.

Data File: /chem/X.i/Xsvr.p/xcxjto15.b/454594i2.d

Date : 29-MAY-2001 19:35

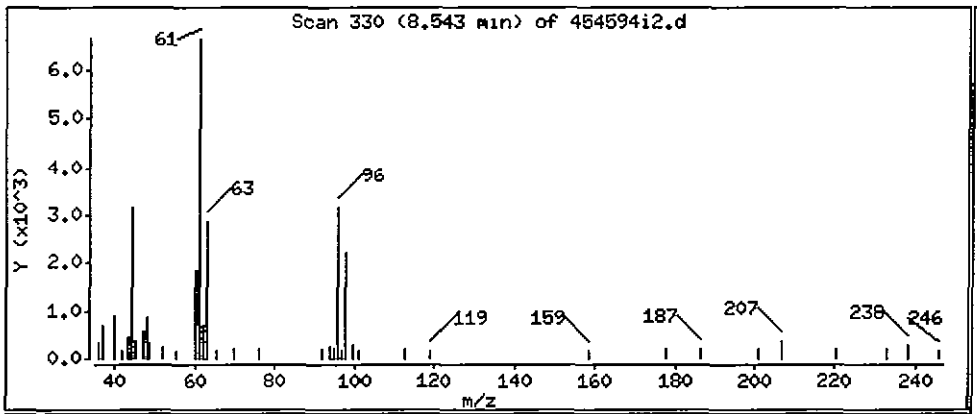
Client ID: EA05210112 Instrument: X.i

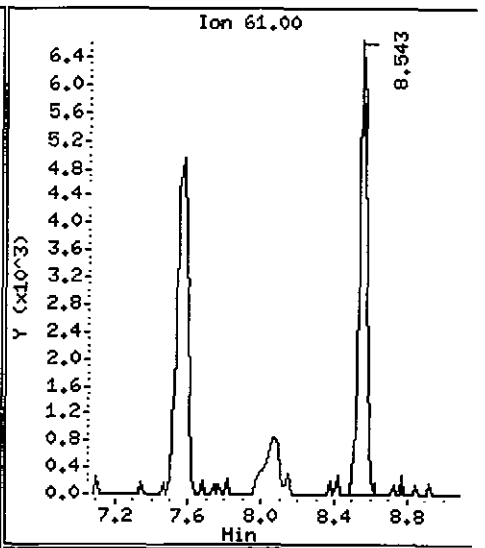
Sample Info: 454594;EA05210112;83075;0529E7

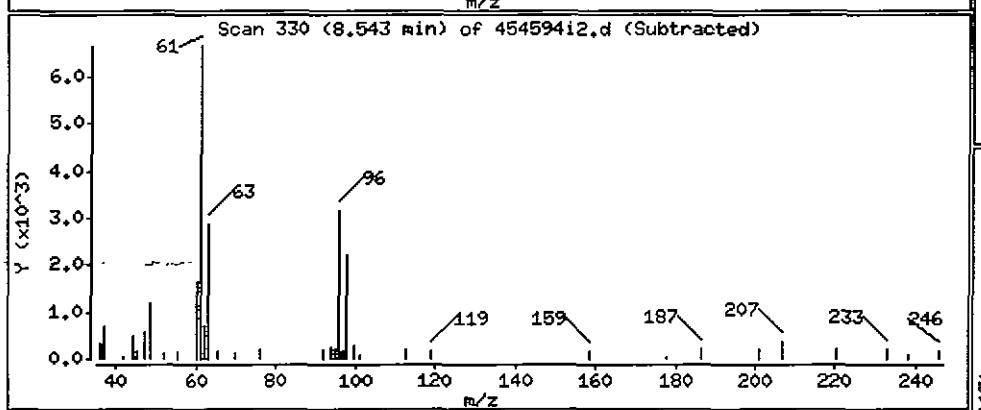
Purge Volume: 200.0 Operator: GHM

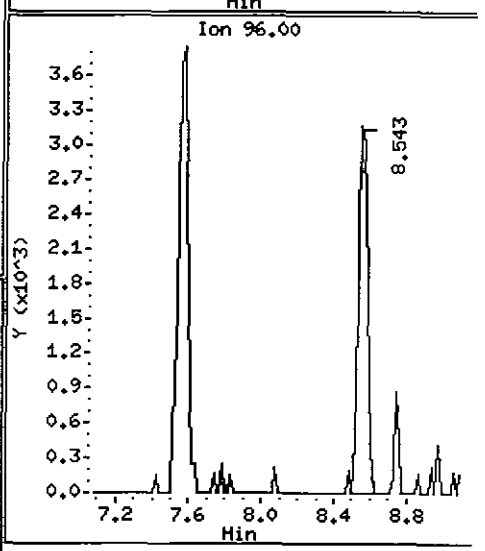
Column phase: DB-1 Column diameter: 0.35

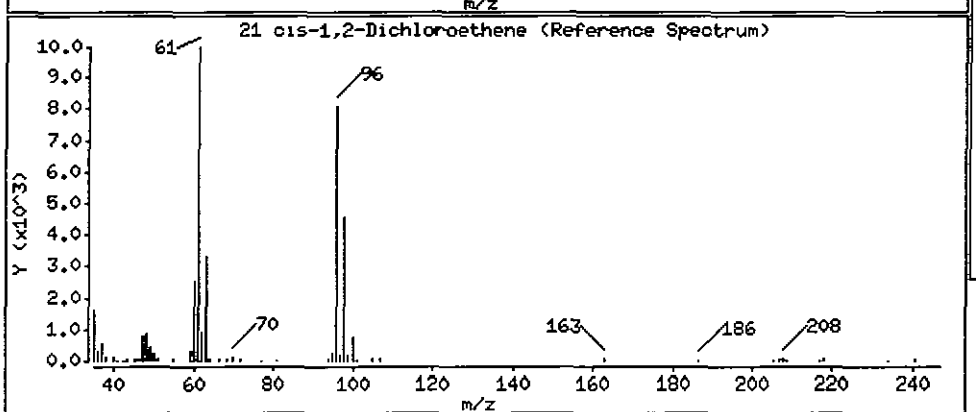
21 cis-1,2-Dichloroethene Concentration: 1.1 ppbv

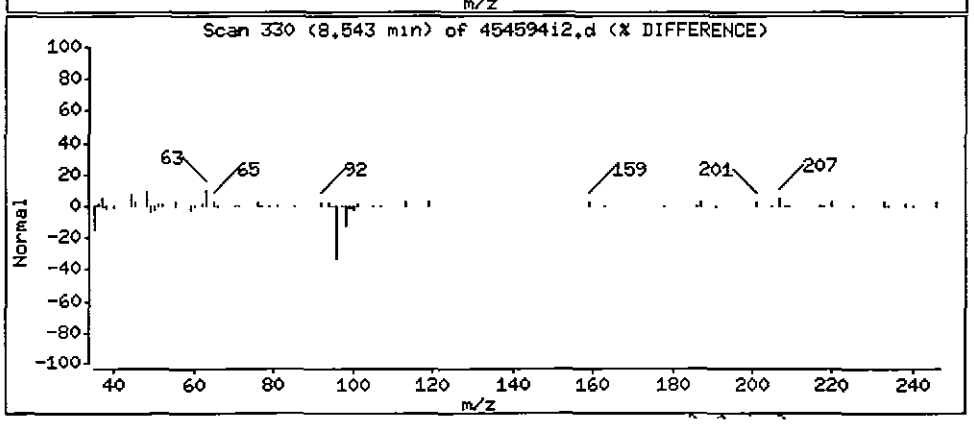












0010

Data File: /chem/X.i/Xsvr.p/xcxjto15.b/45459412.d

Date : 29-MAY-2001 19:35

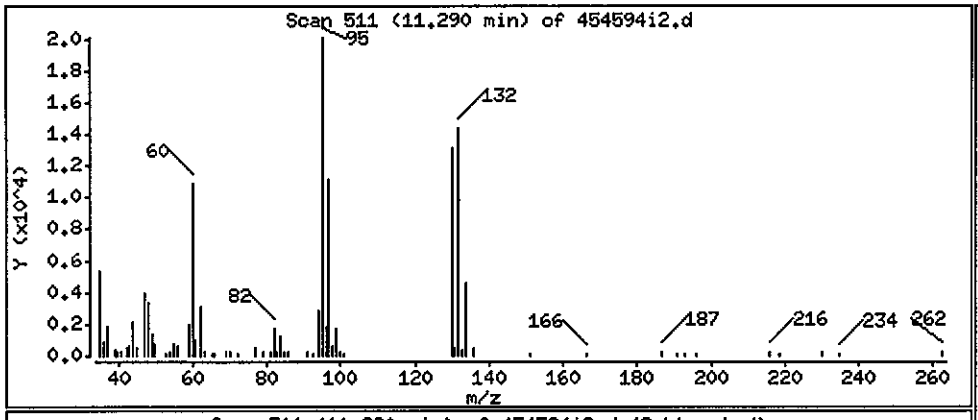
Client ID: EA05210112 Instrument: X.i

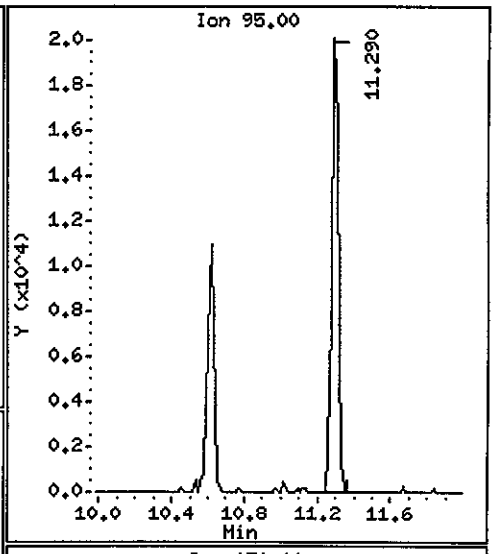
Sample Info: 454594;EA05210112;83075;0529E7

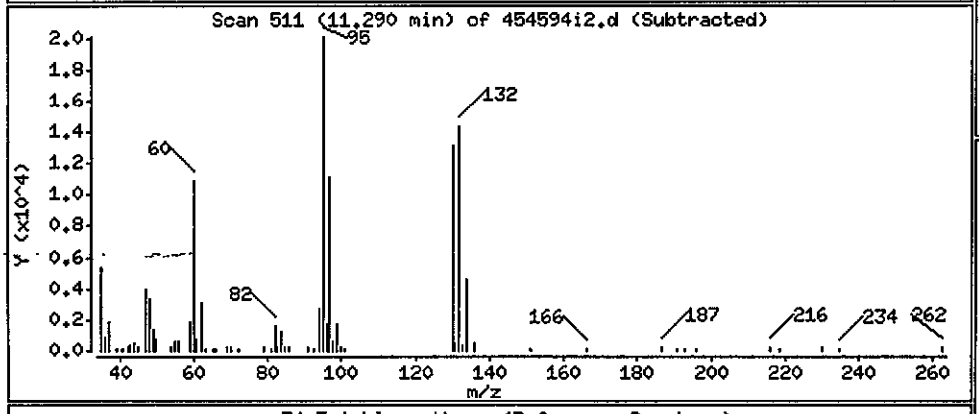
Purge Volume: 200.0 Operator: GMM

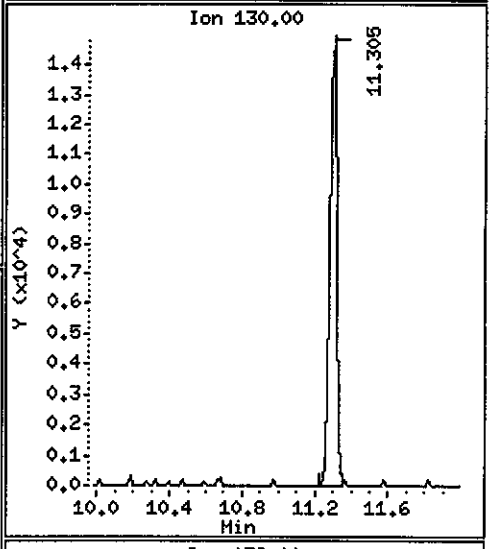
Column phase: DB-1 Column diameter: 0.35

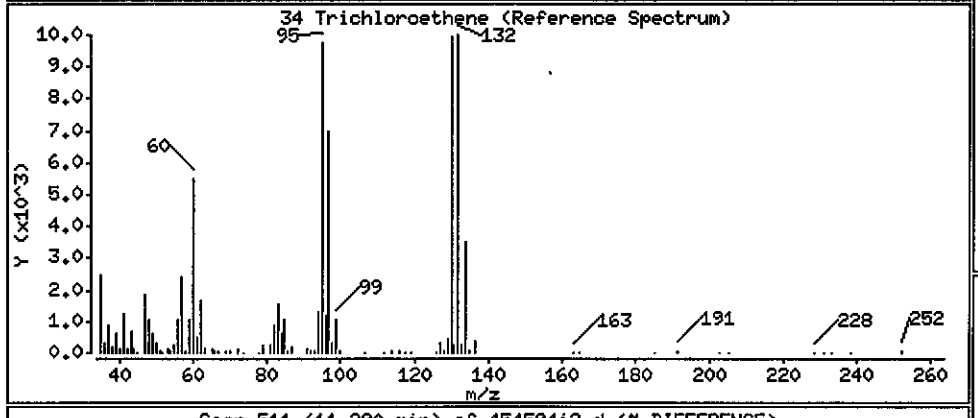
34 Trichloroethene Concentration: 2.8 ppbv

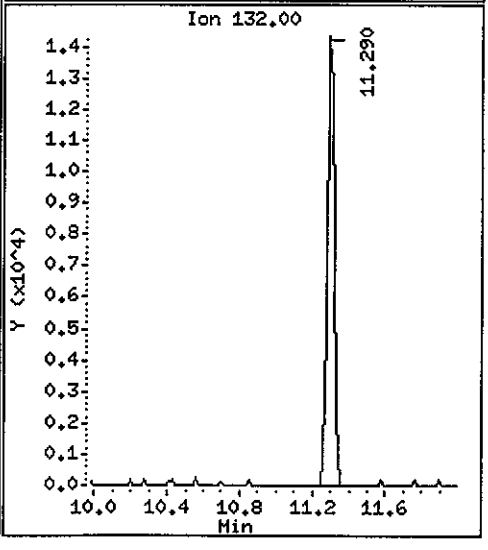


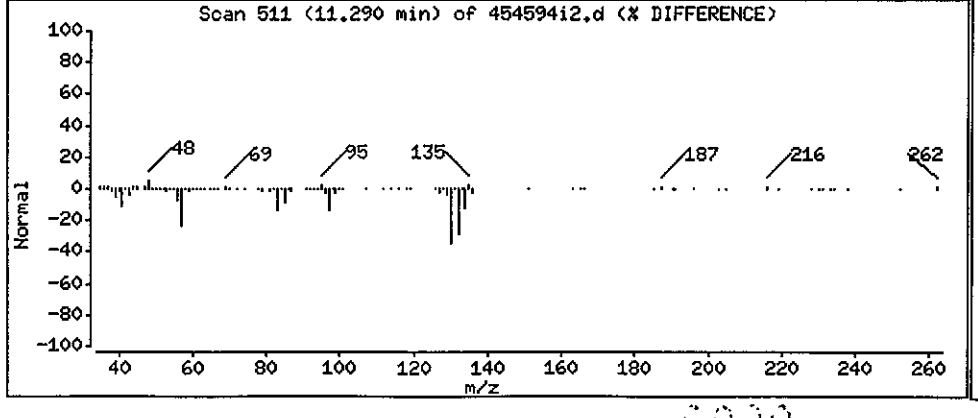












0020

Data File: /chem/X.i/Xsvr.p/xcxjto15.b/454594i2.d

Date : 29-MAY-2001 19:35

Client ID: EA05210112

Instrument: X.i

Sample Info: 454594;EA05210112;83075;0529E7

Purge Volume: 200.0

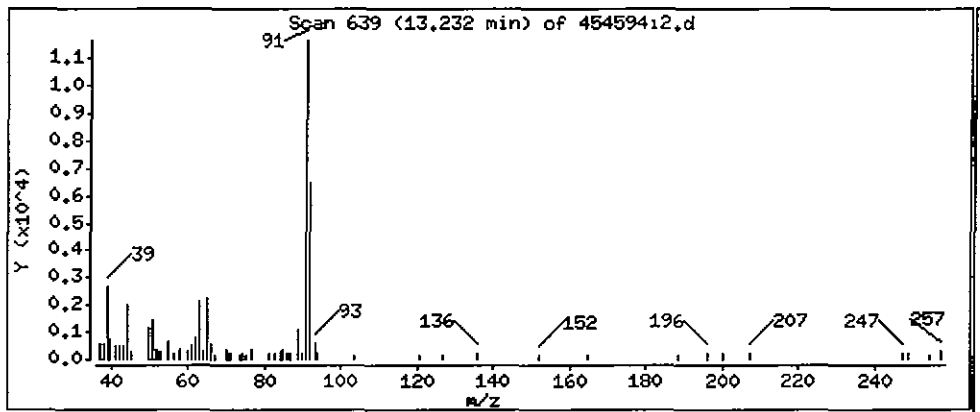
Operator: GHH

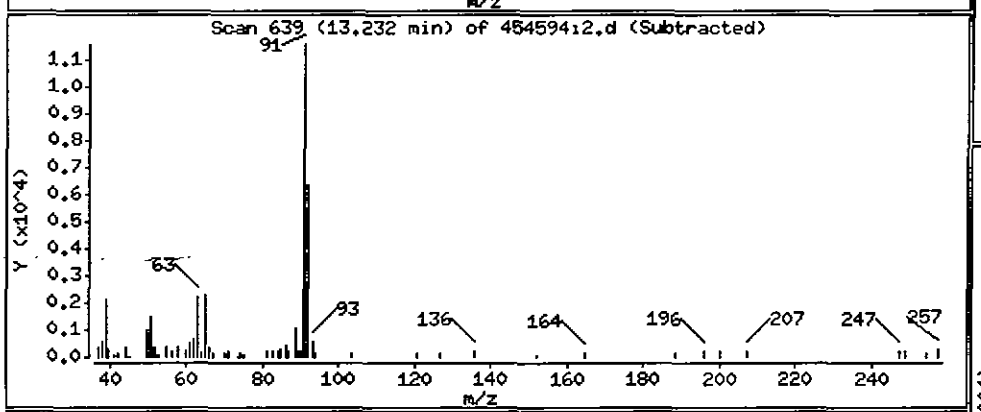
Column phase: DB-1

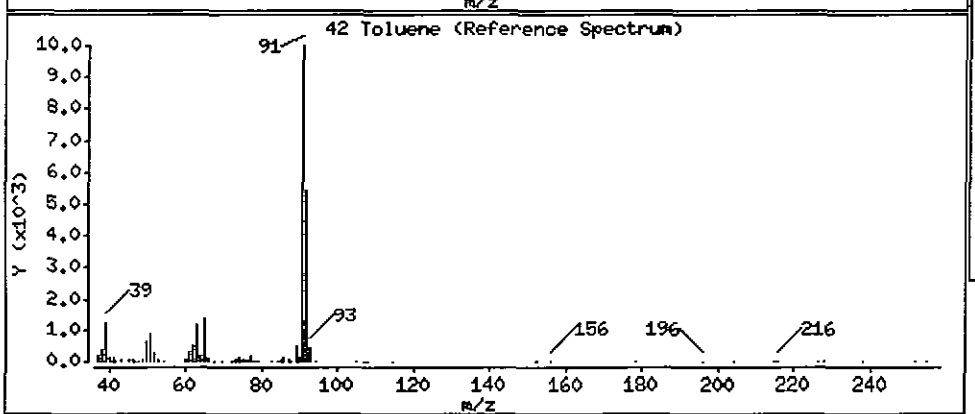
Column diameter: 0.35

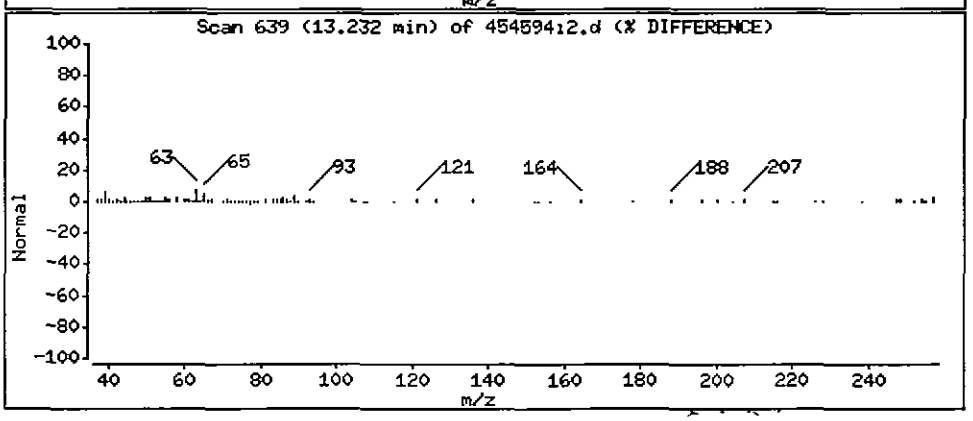
42 Toluene

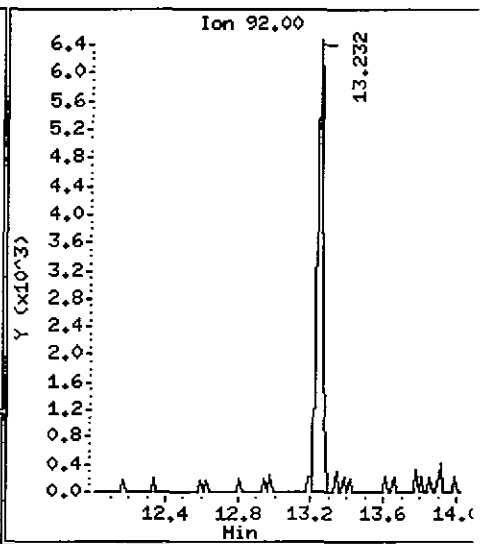
Concentration: 0.51 ppbv

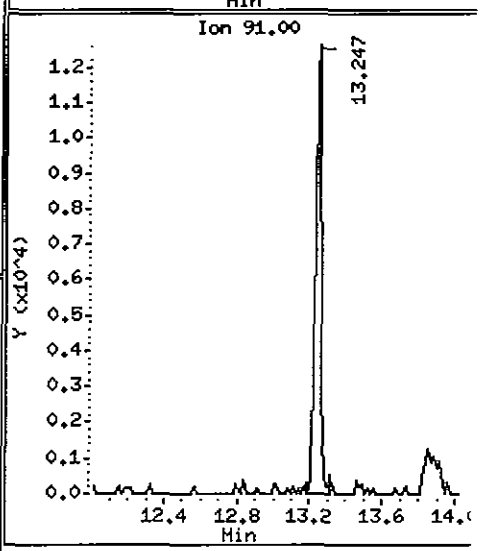












Data File: /chem/X.i/Xsvr.p/xcxjto15.b/45459412.d

Date : 29-MAY-2001 19:35

Client ID: EA05210112

Instrument: X.i

Sample Info: 454594;EA05210112;83075;0529E7

Purge Volume: 200.0

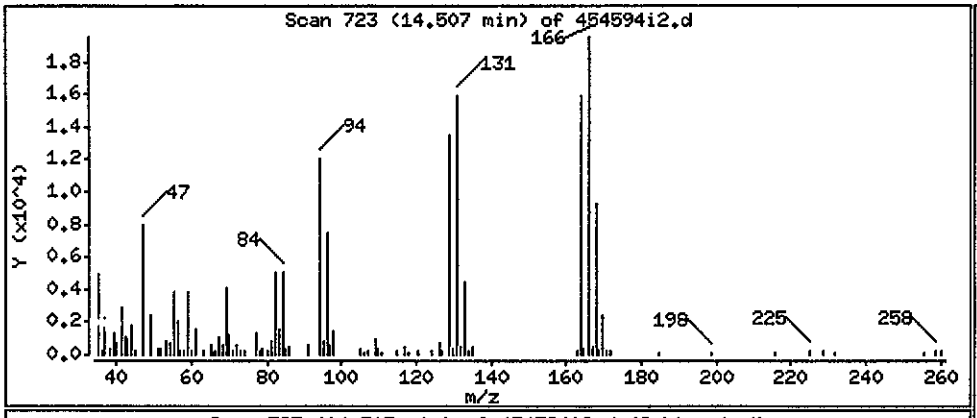
Operator: GHM

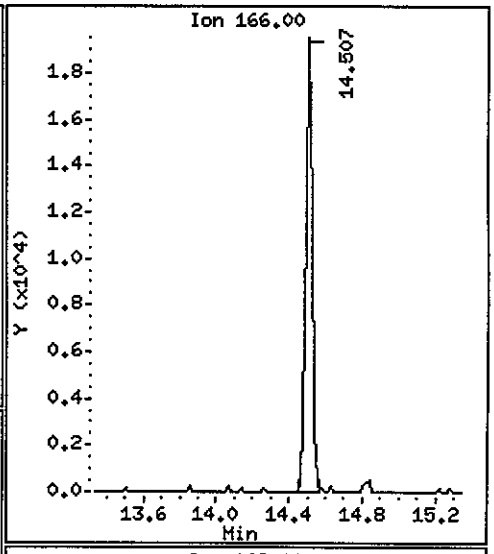
Column phase: DB-1

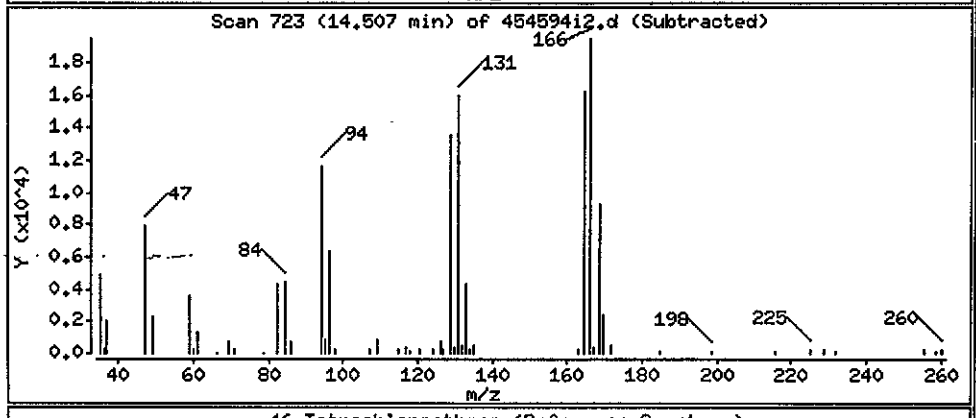
Column diameter: 0.35

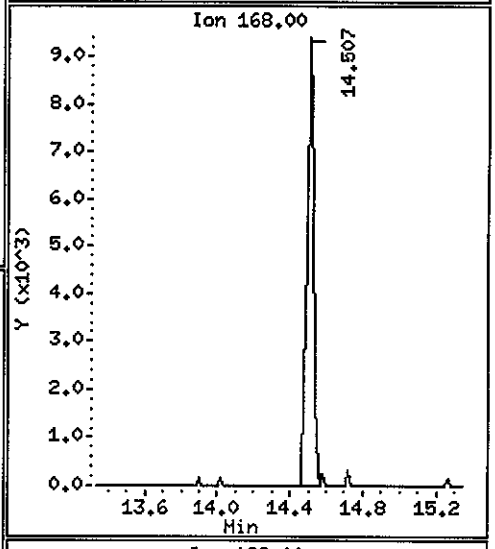
46 Tetrachloroethene

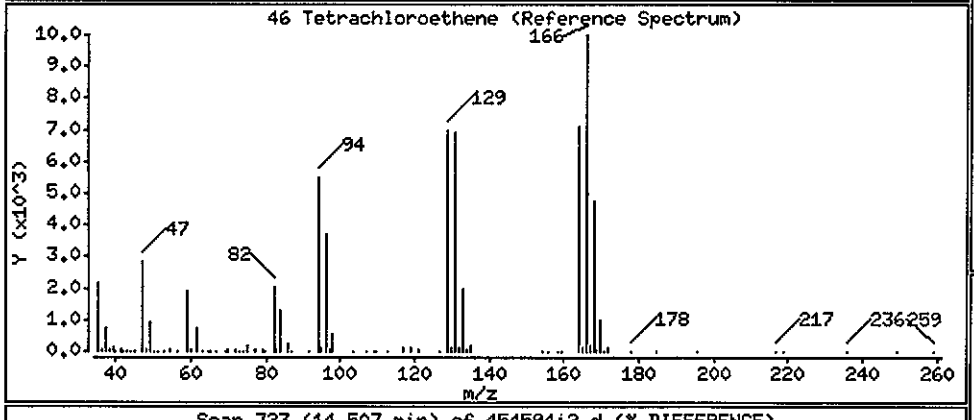
Concentration: 1.2 ppbv

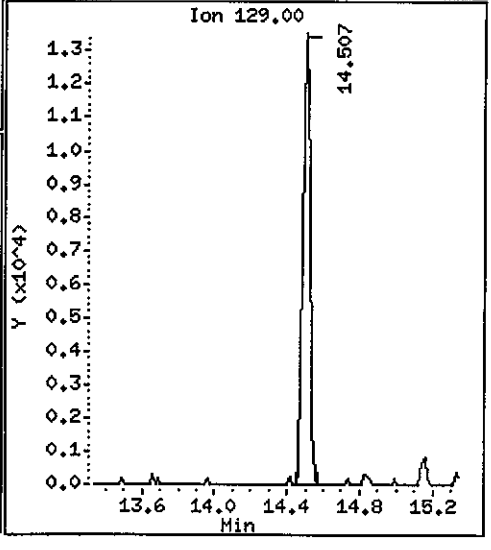


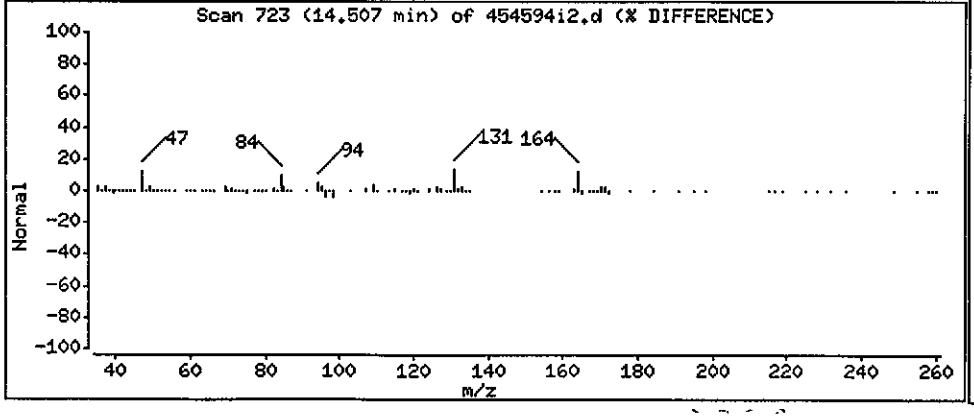












Data File: /chem/X.i/Xsvr.p/xcxjto15.b/454594i2.d

Date : 29-MAY-2001 19:35

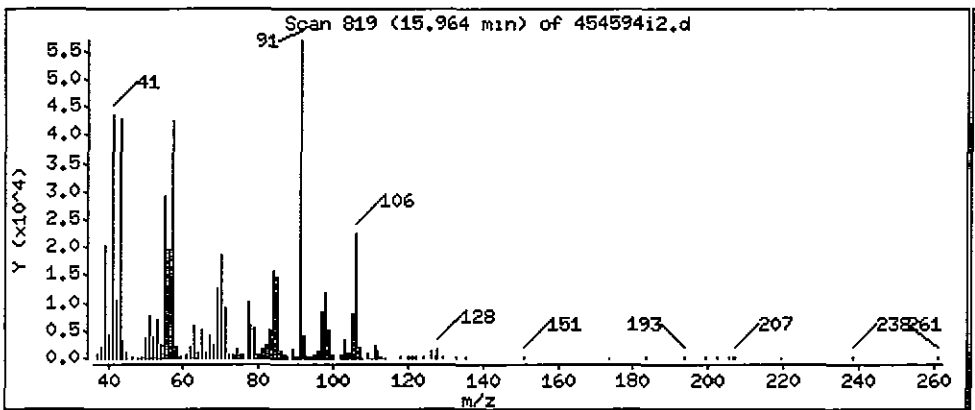
Client ID: EA05210112 Instrument: X.i

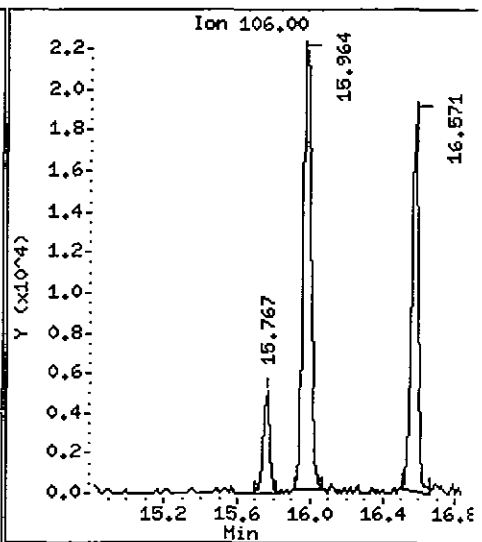
Sample Info: 454594;EA05210112;83075;0529E7

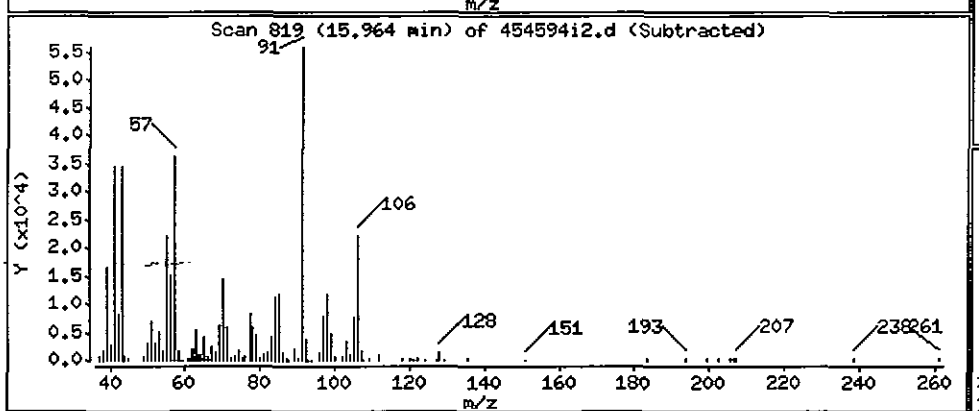
Purge Volume: 200.0 Operator: GMH

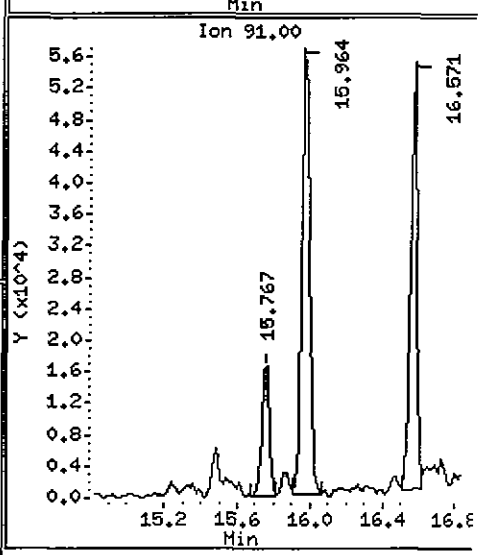
Column phase: DB-1 Column diameter: 0.35

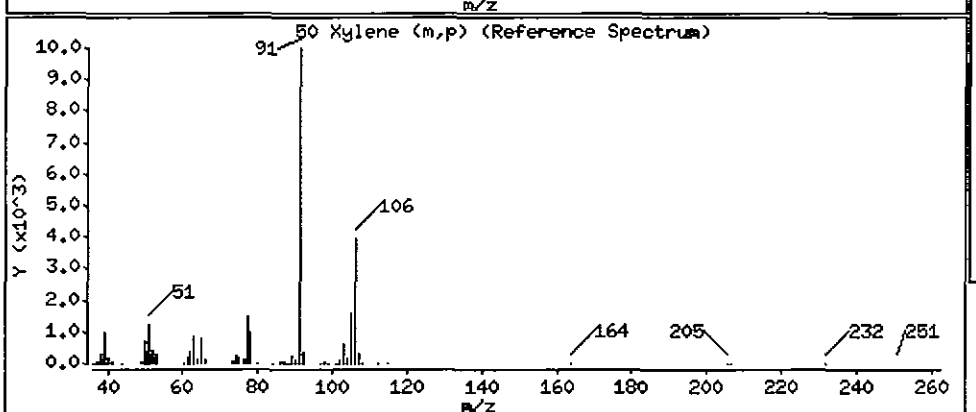
50 Xylene (m,p) Concentration: 1.8 ppbv

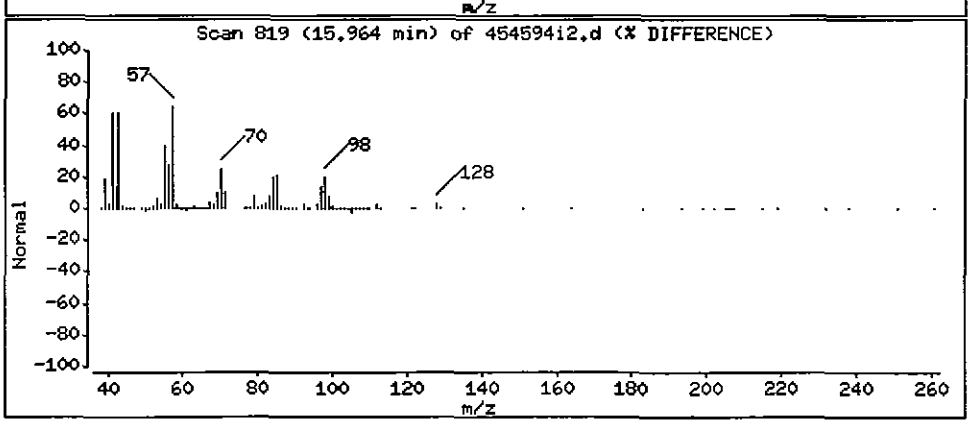












Data File: /chem/X.i/Xsvr.p/xcxjto15.b/45459412.d

Date : 29-MAY-2001 19:35

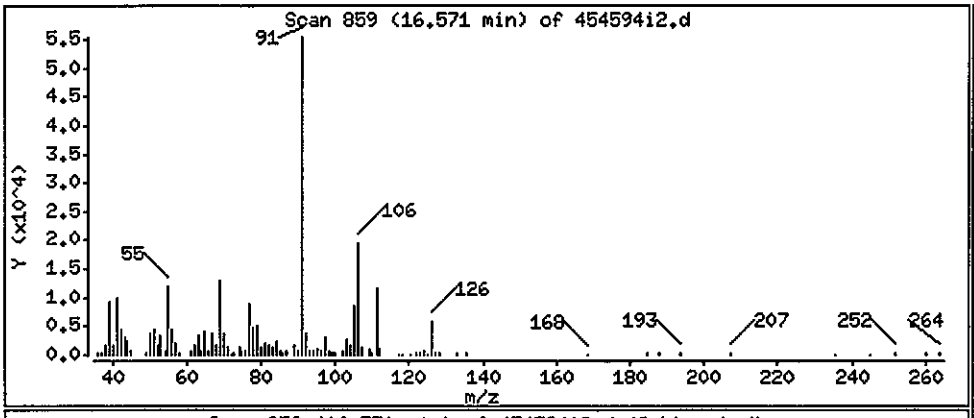
Client ID: EA05210112 Instrument: X.i

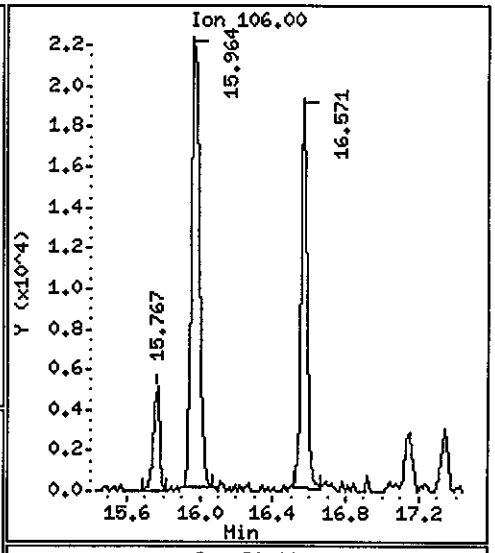
Sample Info: 454594;EA05210112;83075;0529E7

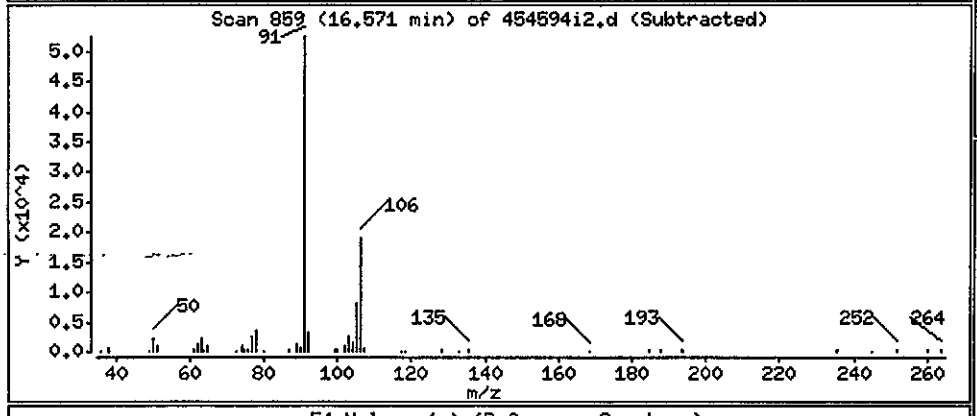
Purge Volume: 200.0 Operator: GMH

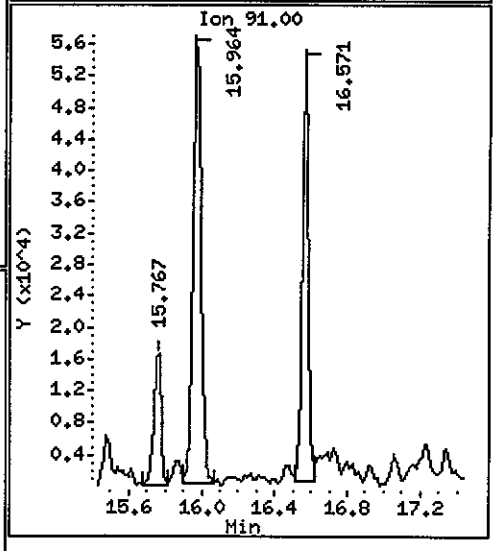
Column phase: DB-1 Column diameter: 0.35

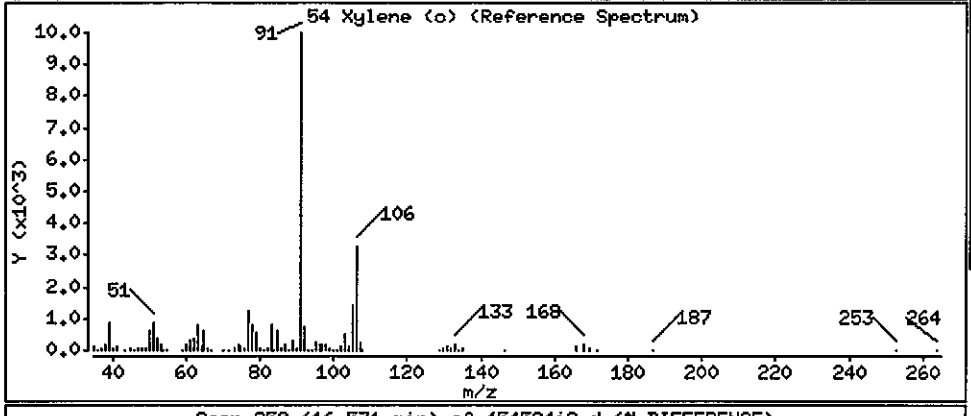
54 Xylene (o) Concentration: 1.3 ppbv

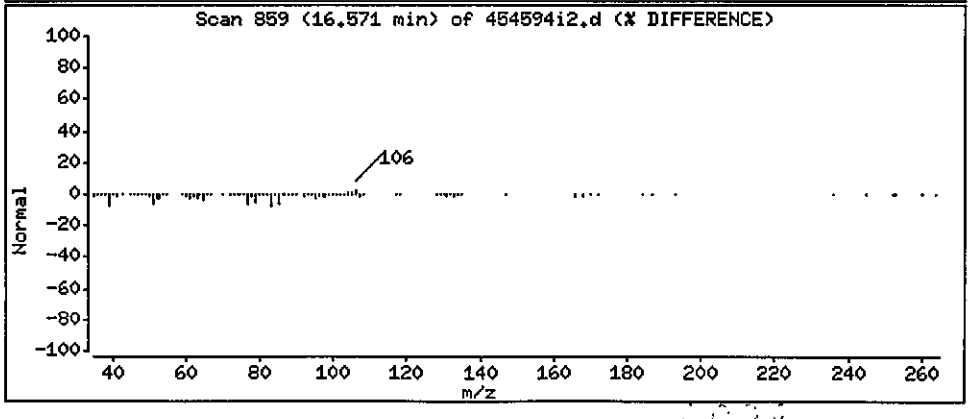












0024

Data File: /chem/X.i/Xsvr.p/xcxjto15.b/454594i2.d

Date : 29-MAY-2001 19:35

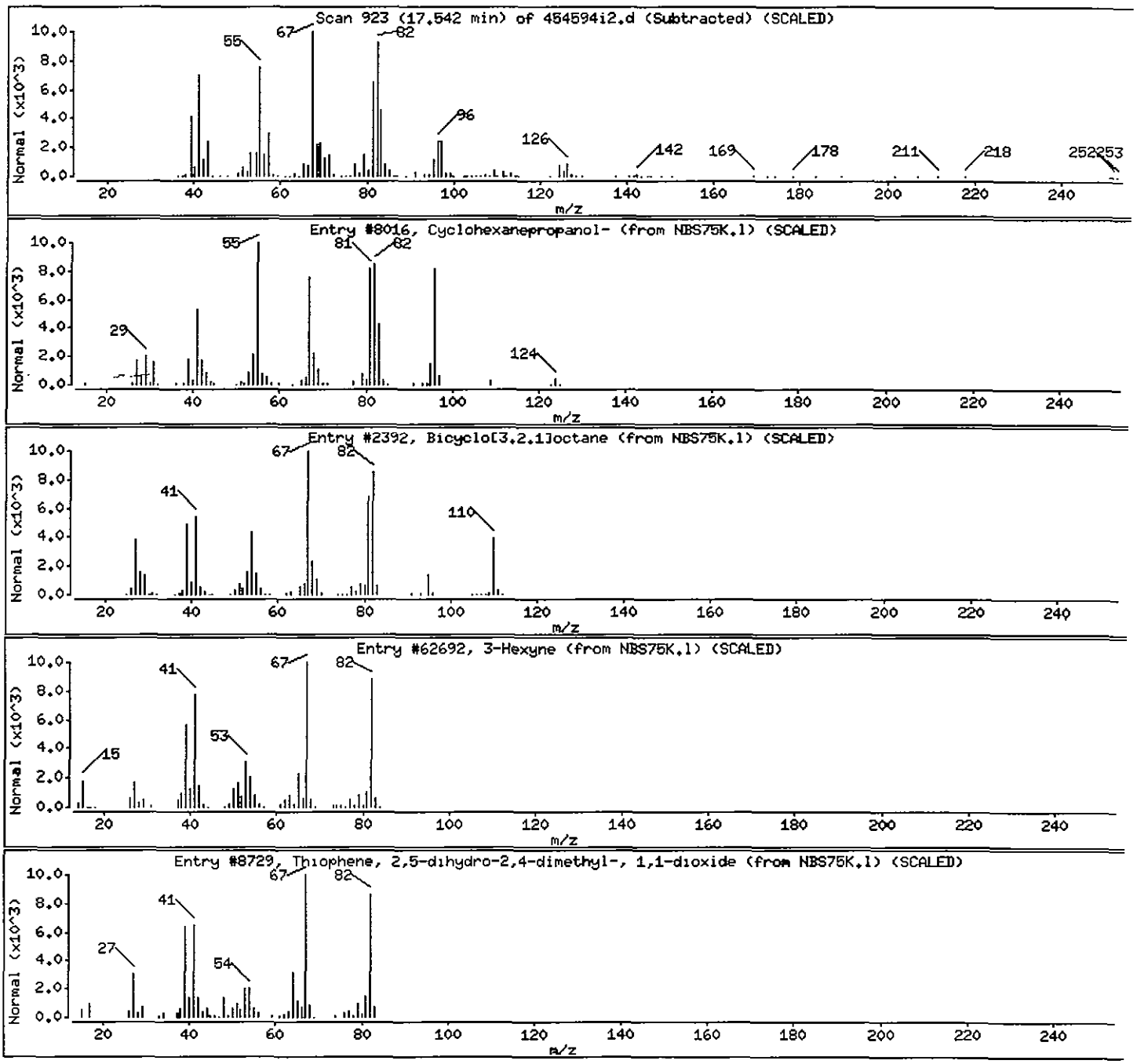
Client ID: EA05210112 Instrument: X.i

Sample Info: 454594;EA05210112;83075;0529E7

Purge Volume: 200.0 Operator: GMH

Column phase: DB-1 Column diameter: 0.35

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown alcohol						
Cyclohexanepropanol-	1124-63-6	NBS75K.l	8016	64	C9H18O	142
Bicyclo[3.2.1]octane	6221-55-2	NBS75K.l	2392	50	C8H14	110
3-Hexyne	928-49-4	NBS75K.l	62692	47	C6H10	82
Thiophene, 2,5-dihydro-2,4-dimethyl-, 1,	10033-92-8	NBS75K.l	8729	38	C6H10O2S	146



Data File: /chem/X.i/Xsvr.p/xcxjto15.b/454594i2.d

Date : 29-MAY-2001 19:35

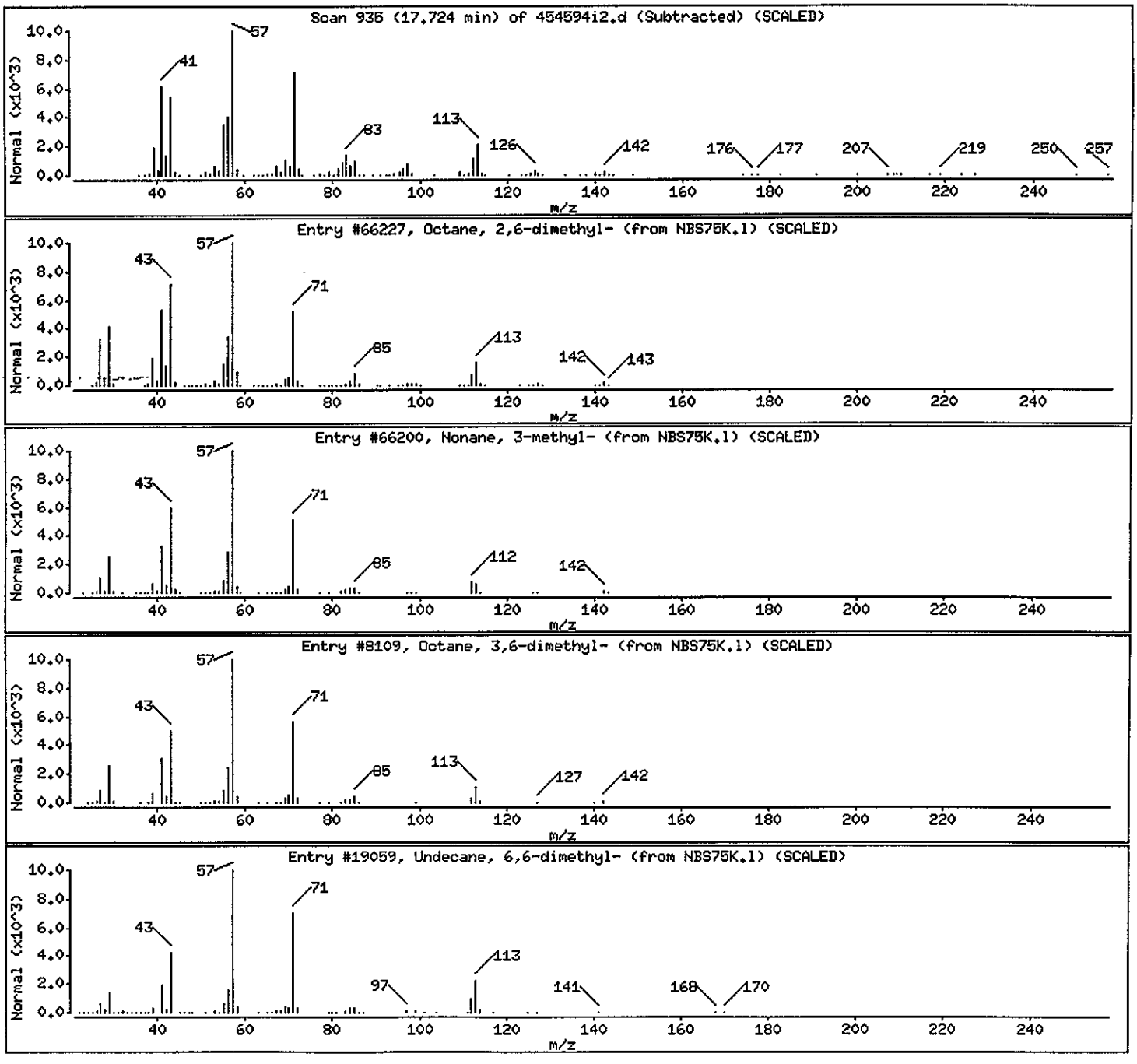
Client ID: EA05210112 Instrument: X.i

Sample Info: 454594;EA05210112;83075;0529E7

Purge Volume: 200.0 Operator: GMM

Column phase: DB-1 Column diameter: 0.35

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Octane, 2,6-dimethyl-	2051-30-1	NBS75K.l	66227	90	C10H22	142
Nonane, 3-methyl-	5911-04-6	NBS75K.l	66200	83	C10H22	142
Octane, 3,6-dimethyl-	15869-94-0	NBS75K.l	8109	50	C10H22	142
Undecane, 6,6-dimethyl-	17312-76-4	NBS75K.l	19059	50	C13H28	184



Data File: /chem/X.i/Xsvr.p/xcxjto15.b/45459412.d

Date : 29-MAY-2001 19:35

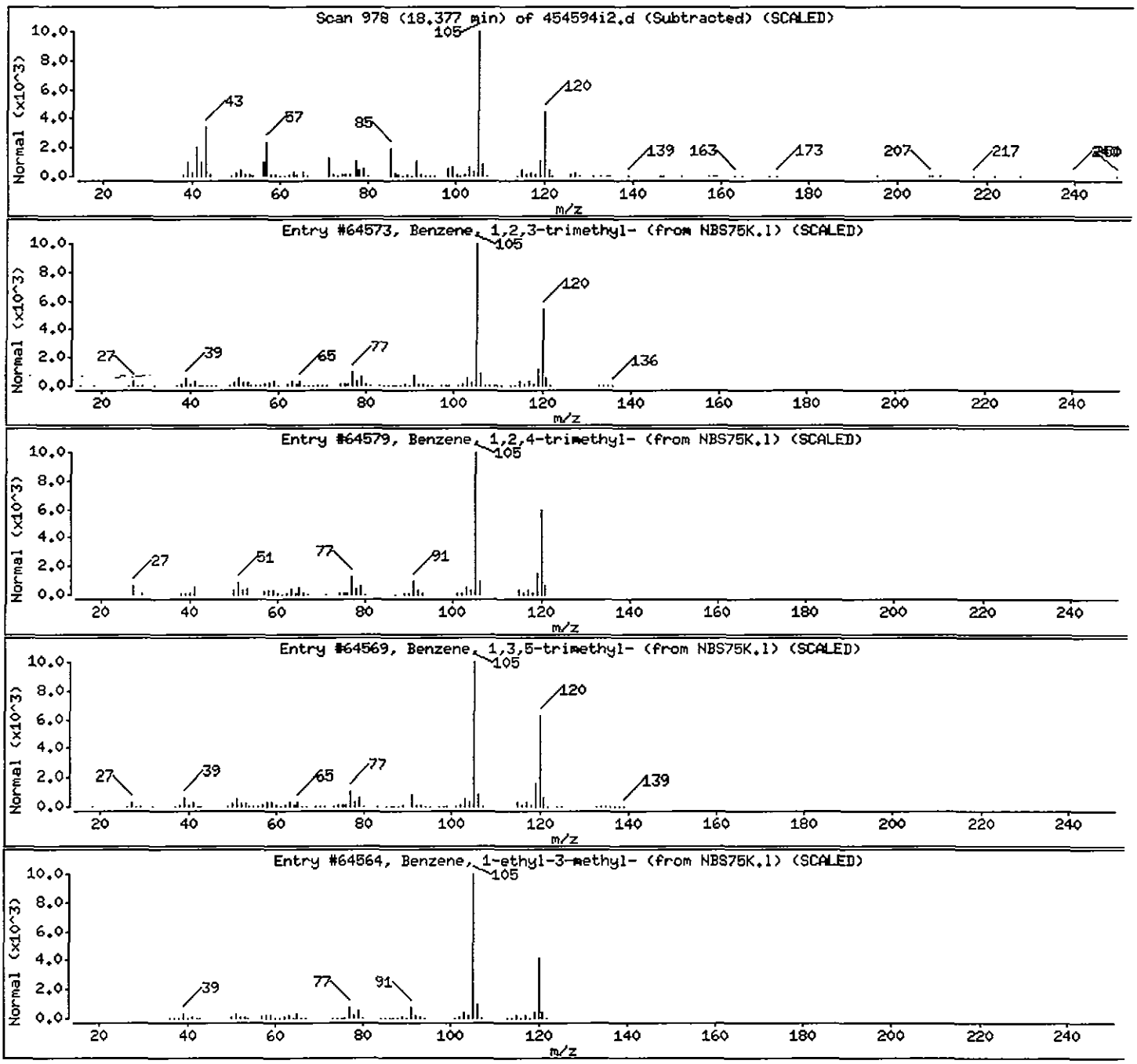
Client ID: EA05210112 Instrument: X.i

Sample Info: 454594;EA05210112;83075;0529E7

Purge Volume: 200.0 Operator: GHH

Column phase: DB-1 Column diameter: 0.35

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown aromatic compound						
Benzene, 1,2,3-trimethyl-	526-73-8	NBS75K.l	64573	93	C9H12	120
Benzene, 1,2,4-trimethyl-	95-63-6	NBS75K.l	64579	90	C9H12	120
Benzene, 1,3,5-trimethyl-	108-67-8	NBS75K.l	64569	81	C9H12	120
Benzene, 1-ethyl-3-methyl-	620-14-4	NBS75K.l	64564	76	C9H12	120



Data File: /chem/X.i/Xsvr.p/xcxjto15.b/454594i2.d

Date : 29-MAY-2001 19:35

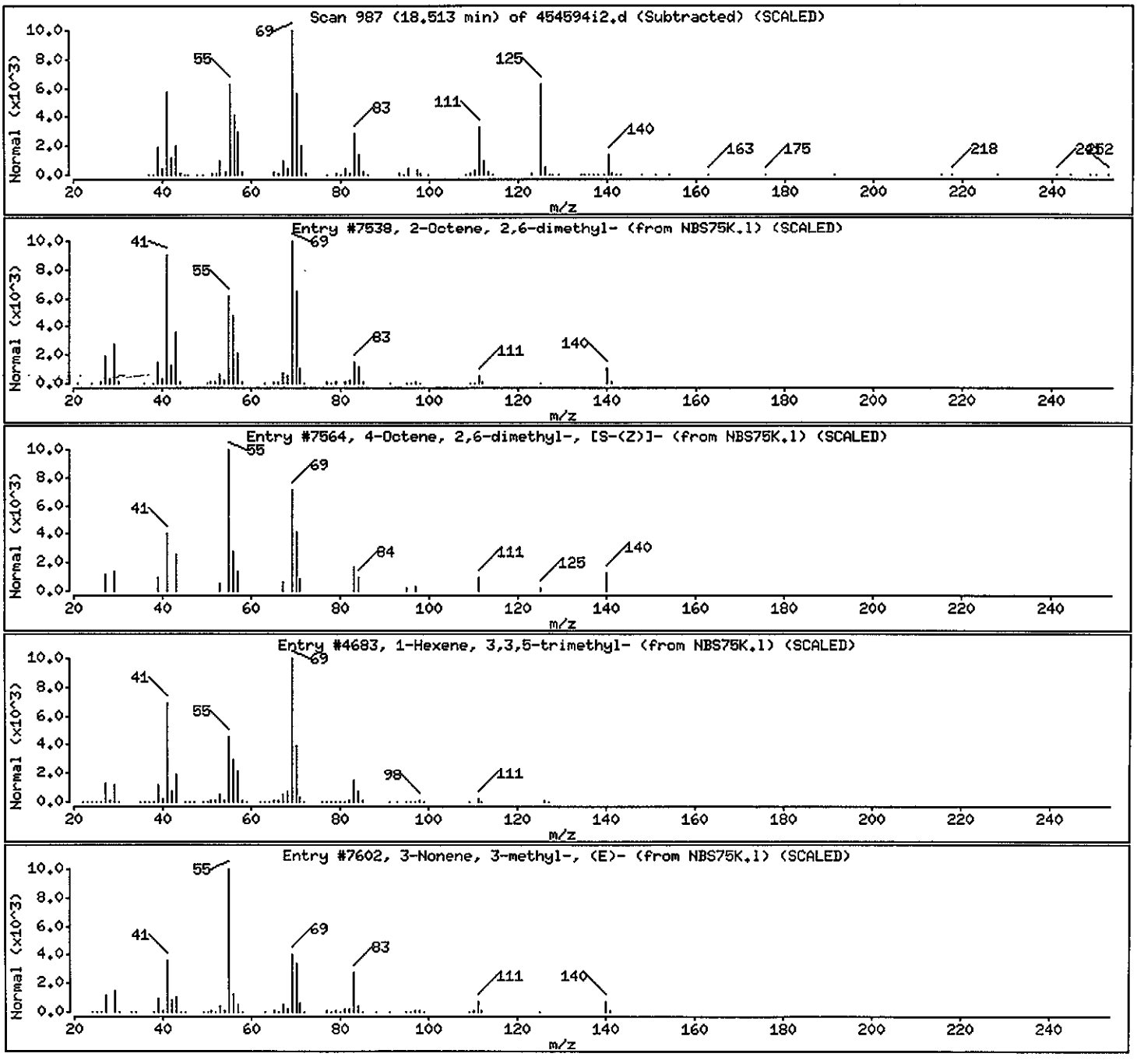
Client ID: EA05210112 Instrument: X.i

Sample Info: 454594;EA05210112;83075;0529E7

Purge Volume: 200.0 Operator: GMM

Column phase: DB-1 Column diameter: 0.35

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
2-Octene, 2,6-dimethyl-	4057-42-5	NBS75K.l	7538	70	C10H20	140
4-Octene, 2,6-dimethyl-, [S-(Z)]-	62960-77-4	NBS75K.l	7564	58	C10H20	140
1-Hexene, 3,3,5-trimethyl-	13427-43-5	NBS75K.l	4683	47	C9H18	126
3-Nonene, 3-methyl-, (E)-	69405-42-1	NBS75K.l	7602	47	C10H20	140



Data File: /chem/X.i/Xsvr.p/xcxjto15.b/45459412.d

Date : 29-MAY-2001 19:35

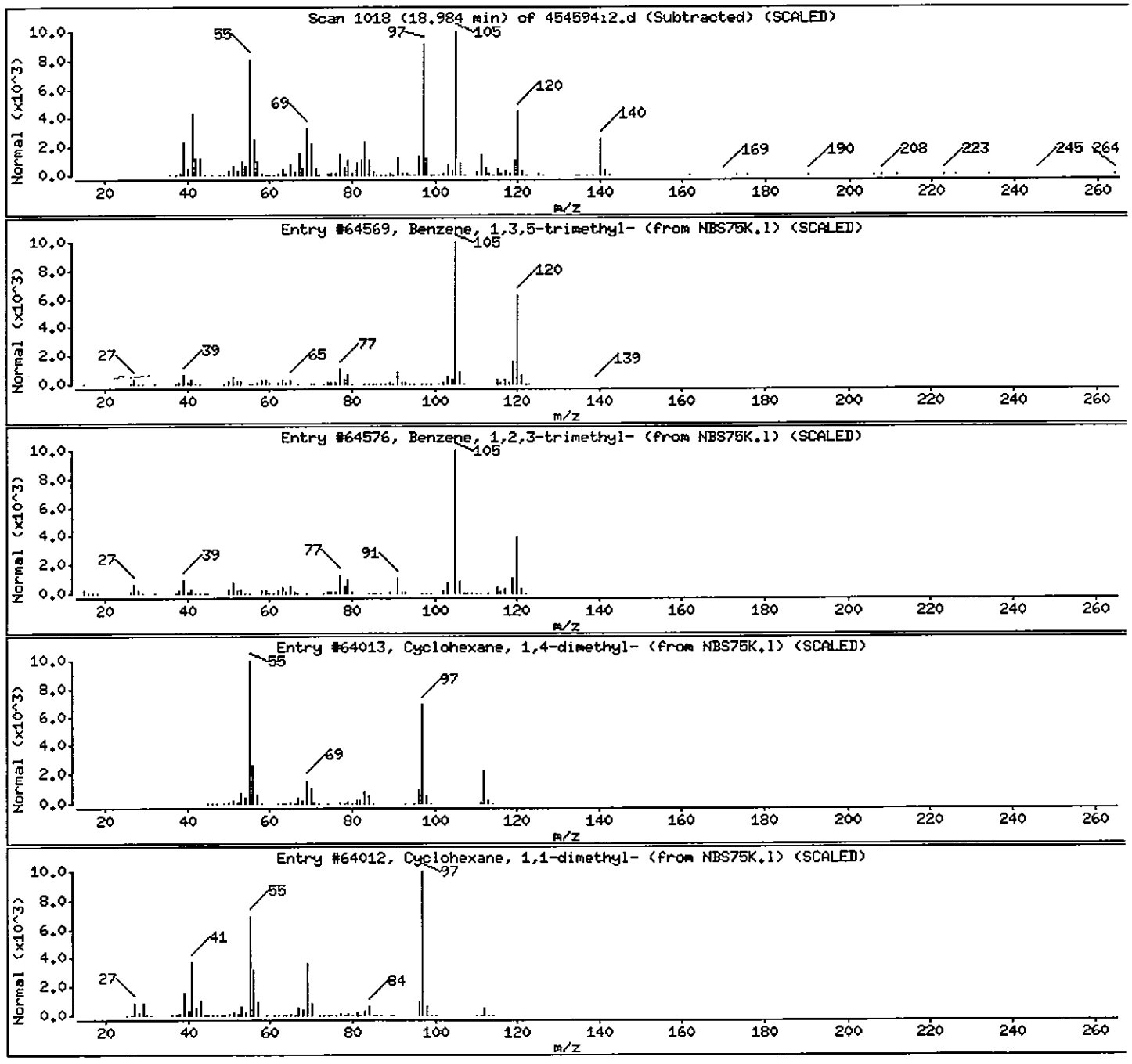
Client ID: EA05210112 Instrument: X.i

Sample Info: 454594;EA05210112;83075;0529E7

Purge Volume: 200.0 Operator: GMH

Column phase: DB-1 Column diameter: 0.35

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown aromatic compound						
Benzene, 1,3,5-trimethyl-	108-67-8	NBS75K.1	64569	60	C9H12	120
Benzene, 1,2,3-trimethyl-	526-73-8	NBS75K.1	64576	60	C9H12	120
Cyclohexane, 1,4-dimethyl-	589-90-2	NBS75K.1	64013	50	C8H16	112
Cyclohexane, 1,1-dimethyl-	590-66-9	NBS75K.1	64012	46	C8H16	112



Data File: /chem/X.i/Xsvr.p/xcxjto15.b/454594i2.d

Date : 29-MAY-2001 19:35

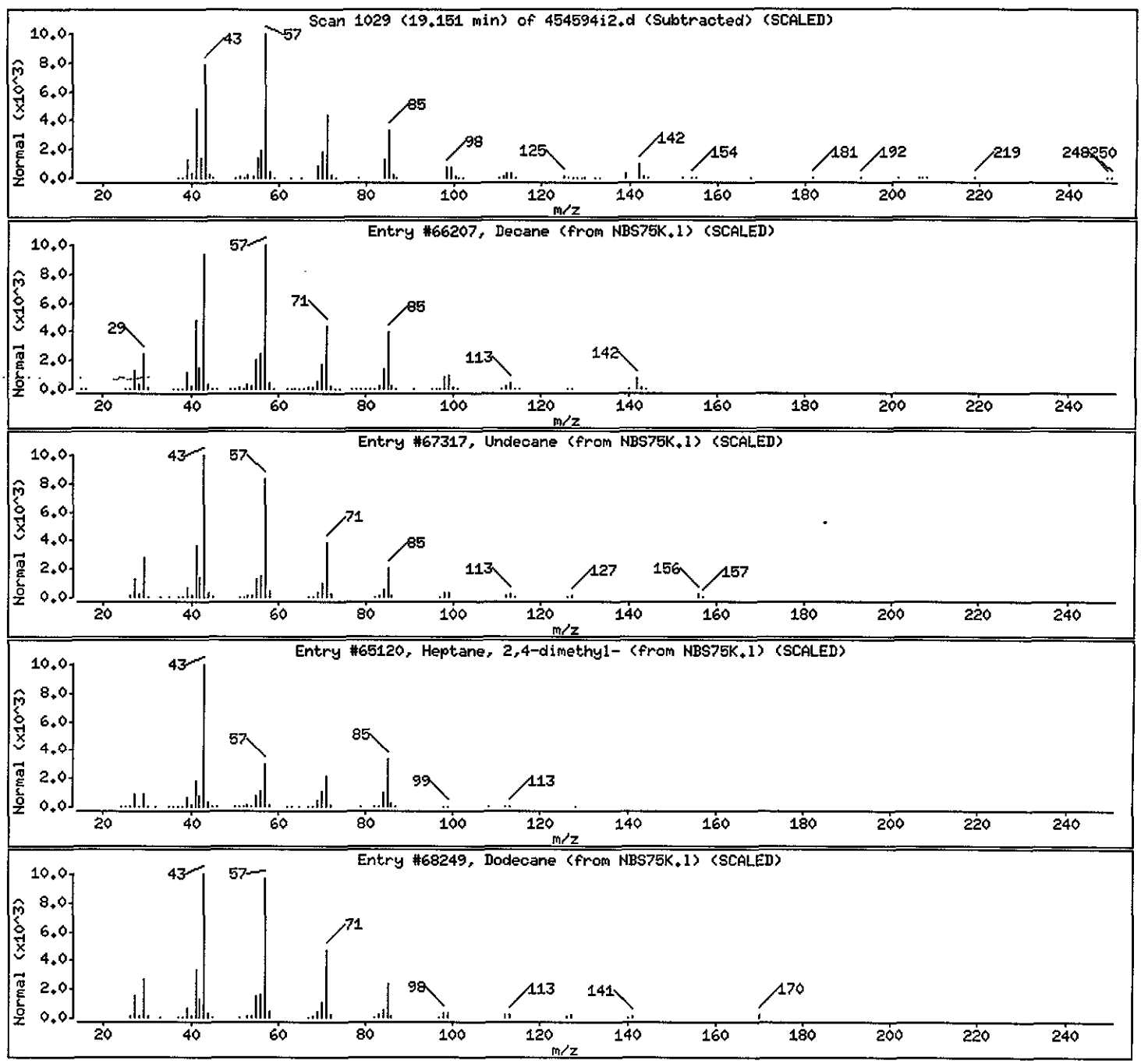
Client ID: EA05210112 Instrument: X.i

Sample Info: 454594;EA05210112;83075;0529E7

Purge Volume: 200.0 Operator: GMM

Column phase: DB-1 Column diameter: 0.35

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Decane	124-18-5	NBS75K.l	66207	96	C10H22	142
Undecane	1120-21-4	NBS75K.l	67317	78	C11H24	156
Heptane, 2,4-dimethyl-	2213-23-2	NBS75K.l	65120	76	C9H20	128
Dodecane	112-40-3	NBS75K.l	68249	72	C12H26	170



Data File: /chem/X.i/Xsvr.p/xcxjto15.b/454594i2.d

Date : 29-MAY-2001 19:35

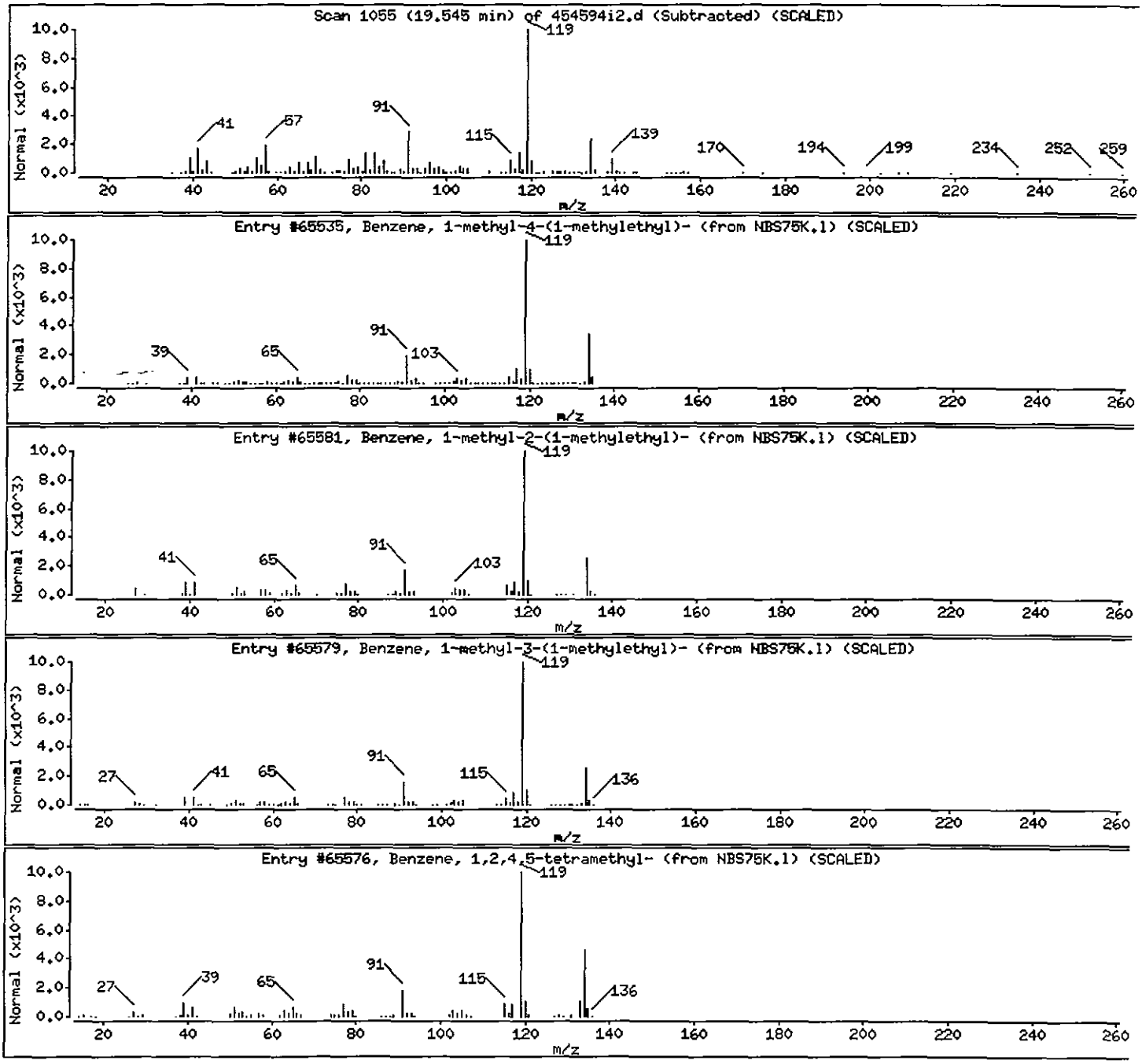
Client ID: EA05210112 Instrument: X.i

Sample Info: 454594;EA05210112;83075;0529E7

Purge Volume: 200.0 Operator: GHH

Column phase: DB-1 Column diameter: 0.35

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Benzene, 1-methyl-4-(1-methylethyl)-	99-87-6	NBS75K.1	65535	94	C10H14	134
Benzene, 1-methyl-2-(1-methylethyl)-	527-84-4	NBS75K.1	65581	93	C10H14	134
Benzene, 1-methyl-3-(1-methylethyl)-	535-77-3	NBS75K.1	65579	81	C10H14	134
Benzene, 1,2,4,5-tetramethyl-	95-93-2	NBS75K.1	65576	81	C10H14	134



Data File: /chem/X.i/Xsvr.p/xcxjto15.b/45459412.d

Date : 29-MAY-2001 19:35

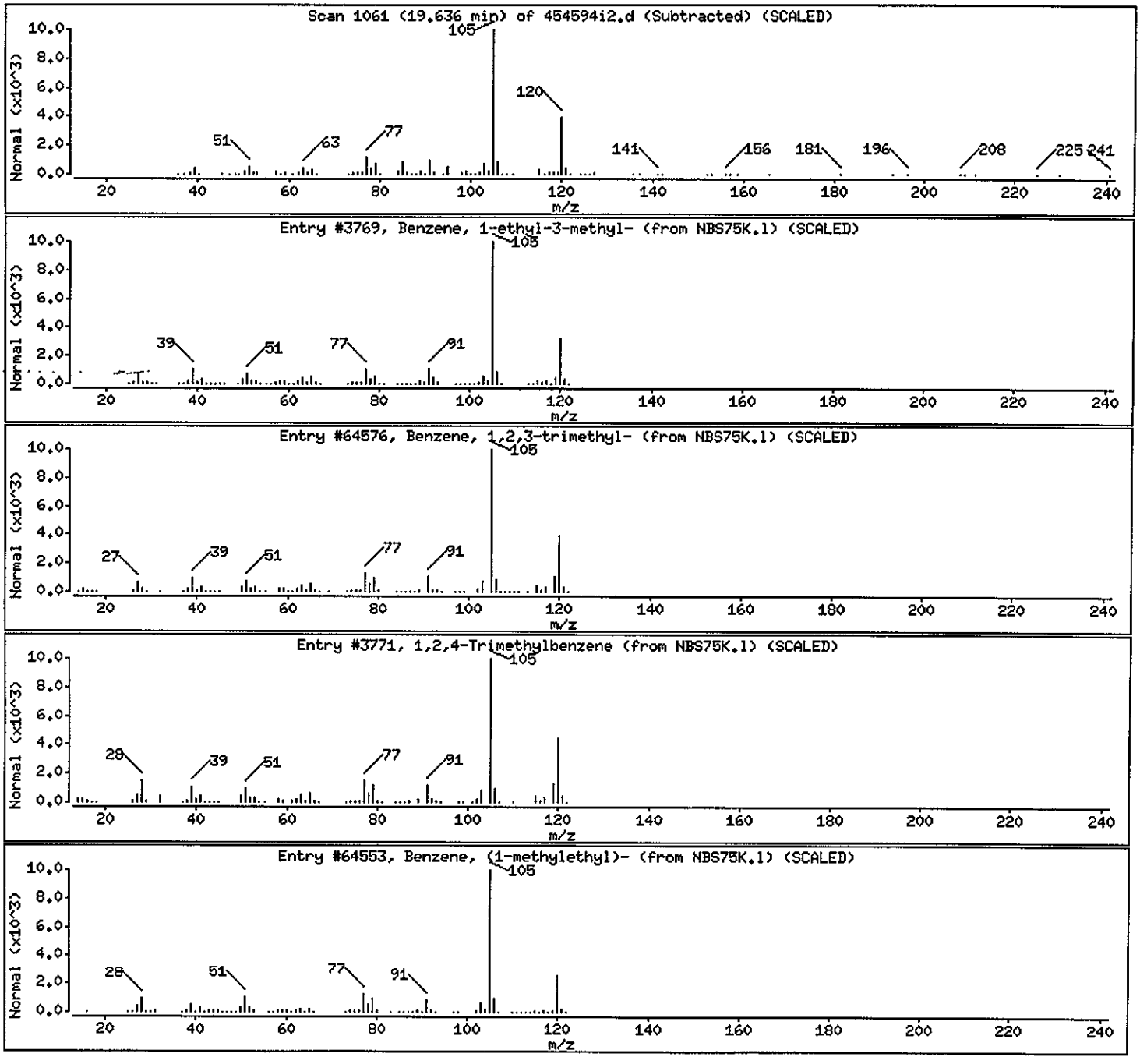
Client ID: EA05210112 Instrument: X.i

Sample Info: 454594;EA05210112;83075;0529E7

Purge Volume: 200.0 Operator: GMM

Column phase: DB-1 Column diameter: 0.35

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Benzene, 1-ethyl-3-methyl-	620-14-4	NBS75K.l	3769	87	C9H12	120
Benzene, 1,2,3-trimethyl-	526-73-8	NBS75K.l	64576	87	C9H12	120
1,2,4-Trimethylbenzene	95-36-3	NBS75K.l	3771	87	C9H12	120
Benzene, (1-methylethyl)-	98-82-8	NBS75K.l	64553	87	C9H12	120



Data File: /chem/X.i/Xsvr.p/xcxjto15.b/45459412.d

Date : 29-MAY-2001 19:35

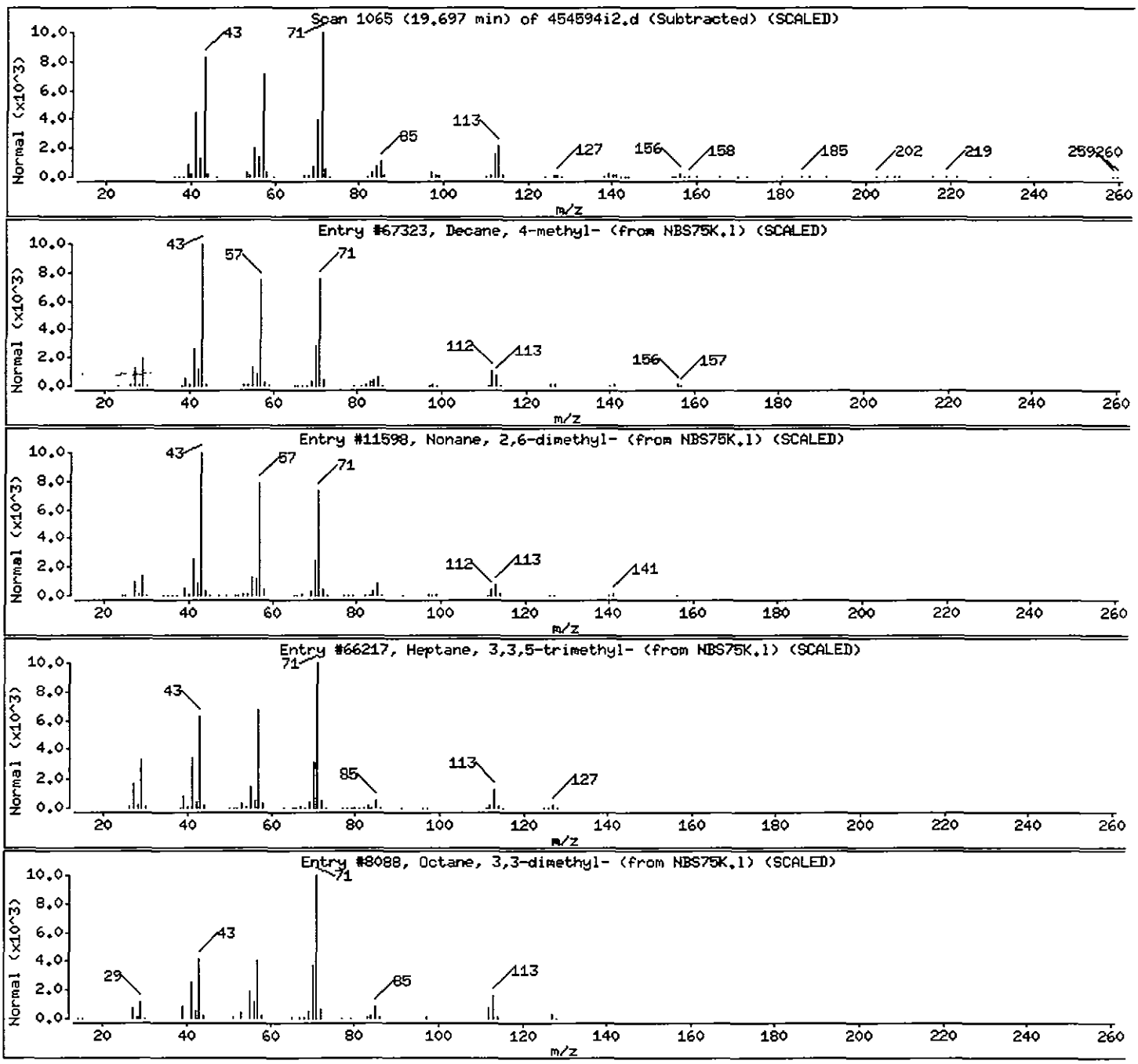
Client ID: EA05210112 Instrument: X.i

Sample Info: 454594;EA05210112;83075;0529E7

Purge Volume: 200.0 Operator: GHH

Column phase: DB-1 Column diameter: 0.35

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Decane, 4-methyl-	2847-72-5	NBS75K.l	67323	91	C11H24	156
Nonane, 2,6-dimethyl-	17302-28-2	NBS75K.l	11598	90	C11H24	156
Heptane, 3,3,5-trimethyl-	7154-80-5	NBS75K.l	66217	78	C10H22	142
Octane, 3,3-dimethyl-	4110-44-5	NBS75K.l	8088	72	C10H22	142



Data File: /chem/X.i/Xsvr.p/xcxjto15.b/454594i2.d

Date : 29-MAY-2001 19:35

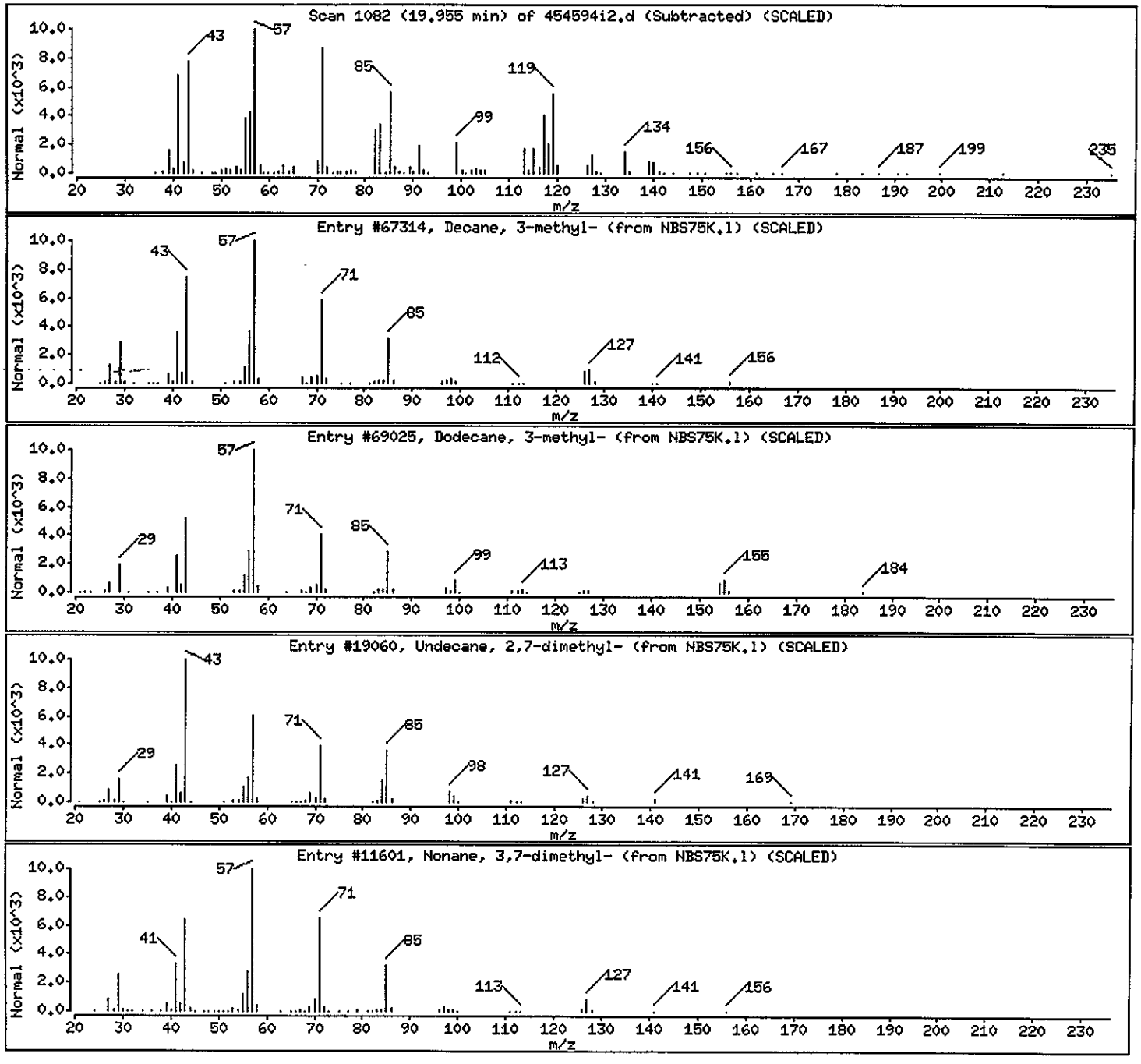
Client ID: EA05210112 Instrument: X.i

Sample Info: 454594;EA05210112;83075;0529E7

Purge Volume: 200.0 Operator: GMM

Column phase: DB-1 Column diameter: 0.35

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown						
Decane, 3-methyl-	13151-34-3	NBS75K.l	67314	49	C11H24	156
Dodecane, 3-methyl-	17312-57-1	NBS75K.l	69025	38	C13H28	184
Undecane, 2,7-dimethyl-	17301-24-5	NBS75K.l	19060	35	C13H28	184
Nonane, 3,7-dimethyl-	17302-32-8	NBS75K.l	11601	27	C11H24	156



SEVERN TRENT SERVICES

Severn Trent Laboratories, Inc.

METHOD TO-14A
VOLATILE ORGANIC ANALYSIS

STANDARDS

6A

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 83075

Instrument ID: X Calibration Date(s): 05/09/01 05/09/01

Heated Purge: (Y/N) N Calibration Time(s): 1129 1441

GC Column: DB-1 ID: 0.35 (mm)

LAB FILE ID: RRF0.5=CX0005 RRF5 =CX005
RRF10 =CX010 RRF20 =CX020I2 RRF40 =CX040I2

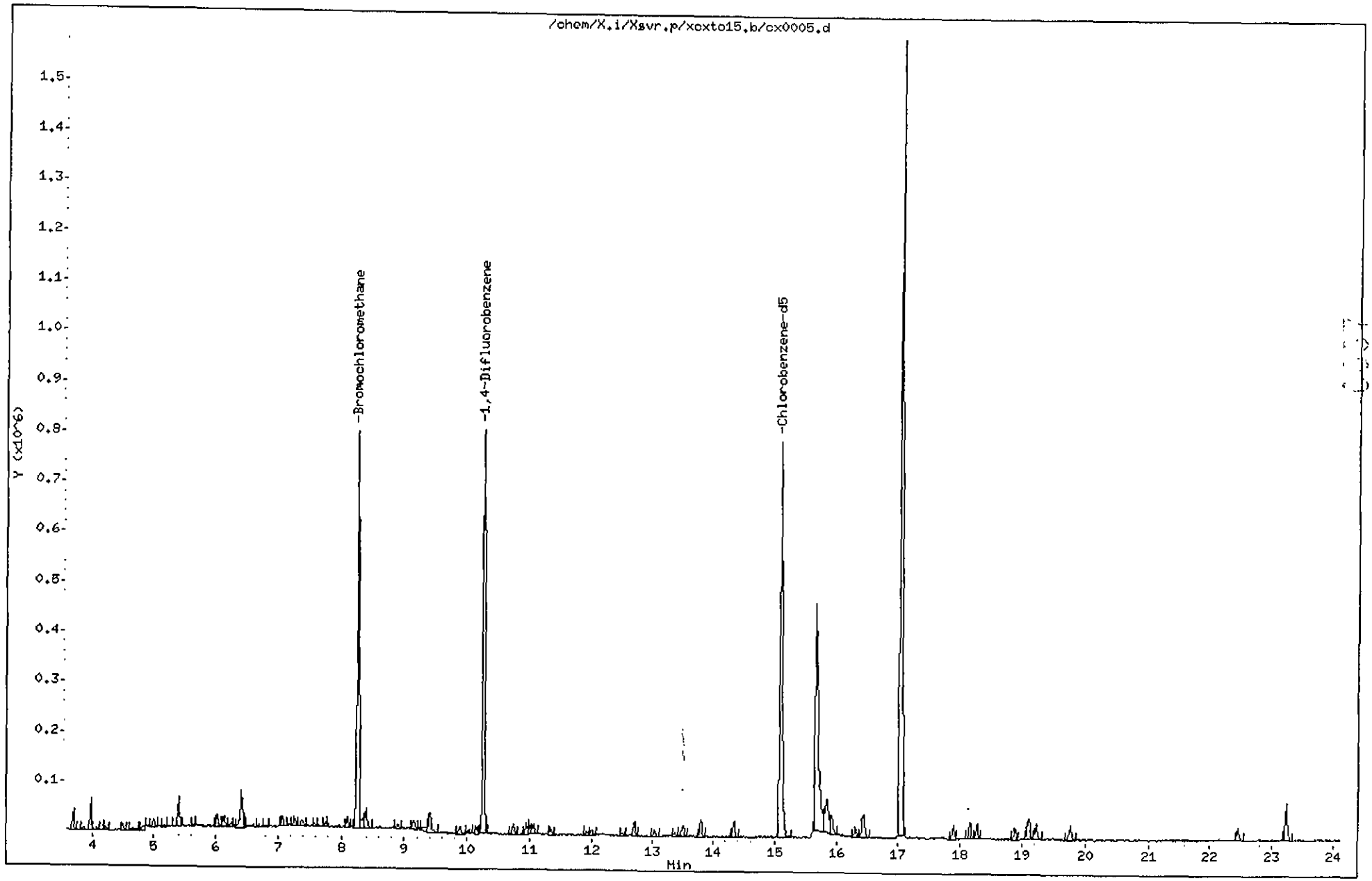
COMPOUND		RRF0.5	RRF5	RRF10	RRF20	RRF40	$\overline{RRF}$	% RSD
Chloromethane		0.527	0.449	0.456	0.352	0.386	0.434	15.6
Vinyl Chloride		0.480	0.508	0.510	0.355	0.427	0.456	14.4
Bromomethane		0.723	0.694	0.694	0.432	0.612	0.631	18.8
Chloroethane		0.289	0.289	0.263	0.188	0.229	0.252	17.2
Trichlorofluoromethane		3.367	3.330	2.849	2.383	2.572	2.900	15.2
Methylene Chloride		0.881	0.778	0.668	0.643	0.642	0.722	14.5
1,1-Dichloroethane	*	1.517	1.261	1.164	1.085	1.115	1.228	14.2*
cis-1,2-Dichloroethene		1.030	0.920	0.845	0.793	0.860	0.890	10.2
Chloroform		2.325	2.095	1.850	1.681	1.762	1.943	13.6
1,1,1-Trichloroethane		0.906	0.744	0.473	0.457	0.496	0.615	32.6
Carbon Tetrachloride		0.227	0.296	0.204	0.175	0.218	0.224	20.0
Benzene		0.429	0.440	0.450	0.416	0.450	0.437	3.4
1,2-Dichloroethane		0.550	0.487	0.278	0.256	0.279	0.370	37.2
Trichloroethene		0.246	0.313	0.205	0.222	0.244	0.246	16.7
1,2-Dichloropropane		0.125	0.170	0.135	0.124	0.145	0.140	13.5
cis-1,3-Dichloropropene		0.134	0.170	0.127	0.159	0.212	0.160	21.1
Toluene		0.222	0.340	0.340	0.336	0.337	0.315	16.6
trans-1,3-Dichloropropene		0.117	0.121	0.097	0.132	0.194	0.132	27.7
1,1,2-Trichloroethane		0.262	0.239	0.235	0.191	0.182	0.222	15.3
Tetrachloroethene		0.294	0.423	0.407	0.426	0.440	0.398	14.9
Chlorobenzene	*	0.625	0.604	0.572	0.525	0.537	0.573	7.5*
Ethylbenzene		0.644	1.435	1.044	0.861	0.892	0.975	30.2
Xylene (m,p)		0.477	0.454	0.357	0.317	0.324	0.386	19.4
Styrene		0.434	0.532	0.579	0.377	0.441	0.473	17.3
Xylene (o)		0.386	0.427	0.447	0.214	0.326	0.360	26.0
1,1,2,2-Tetrachloroethane		0.801	0.815	0.860	0.434	0.541	0.690	27.5
1,3-Dichlorobenzene		0.723	0.900	0.881	0.566	0.697	0.753	18.4
1,4-Dichlorobenzene		0.547	0.840	0.815	0.543	0.670	0.683	20.7
1,2-Dichlorobenzene		0.567	0.819	0.796	0.513	0.639	0.667	20.4

* Compounds with required minimum RRF and maximim %RSD values.
All other compounds must meet a minimim RRF of 0.010.

Data File: /chem/X.i/Xsvr.p/xoxto15.b/cx0005.d
Date : 09-MAY-2001 13:13
Client ID: ASTD0005
Sample Info: ASTD0005;ASTD0005
Purge Volume: 200.0
Column phase: DB-1

Instrument: X.i

Operator: GMM
Column diameter: 0.35



STL Burlington

AIR TOXICS QUANTITATION REPORT

Data file : /chem/X.i/Xsvr.p/xcxto15.b/cx0005.d
Lab Smp Id: ASTD0005 Client Smp ID: ASTD0005
Inj Date : 09-MAY-2001 13:13
Operator : GMM Inst ID: X.i
Smp Info : ASTD0005;ASTD0005
Misc Info :
Comment :
Method : /chem/X.i/Xsvr.p/xcxto15.b/ato15.m
Meth Date : 15-May-2001 15:12 mim Quant Type: ISTD
Cal Date : 09-MAY-2001 13:13 Cal File: cx0005.d
Als bottle: 2 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50
Processing Host: chemsvr4

Concentration Formula: Amt * DF * X* Uf/Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
X	200.00000	method volume factor
Uf	1.00000	ng unit correction factor
Vo	200.00000	Sample Volume purged (mL)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	AMOUNTS ON-COL (ppbv)
1 Dichlorodifluoromethane	85	3.696	3.682	(0.448)	39857	0.50000	0.56
2 Chloromethane	50	3.854	3.840	(0.467)	6394	0.50000	0.61
3 Dichlorotetrafluoroethane	85	3.984	3.970	(0.483)	33741	0.50000	0.57
4 Vinyl Chloride	62	4.085	4.071	(0.495)	5828	0.50000	0.53(M)
5 1,3-Butadiene	54	4.215	4.215	(0.511)	4068	0.50000	0.57
6 Bromomethane	94	4.488	4.474	(0.544)	8773	0.50000	0.57
7 Chloroethane	64	4.647	4.647	(0.563)	3509	0.50000	0.57(M)
8 Bromoethene	106	4.992	4.992	(0.605)	9098	0.50000	0.50
9 Acetone	43	5.402	5.311	(0.654)	14394	0.50000	0.64(M)
10 Trichlorofluoromethane	101	5.402	5.402	(0.654)	40871	0.50000	0.58
11 Isopropyl Alcohol	45	5.660	5.615	(0.686)	7659	0.50000	0.50(QM)
12 1,1-Dichloroethene	96	6.024	6.024	(0.730)	9327	0.50000	0.57
13 Methylene Chloride	49	6.146	6.146	(0.744)	10692	0.50000	0.61
14 3-Chloropropene	41	6.252	6.267	(0.757)	4687	0.50000	0.50

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	AMOUNTS ON-COL (ppbv)
15	Carbon Disulfide	76	6.404	6.404	(0.776)	22221	0.50000	0.51
16	Freon TF	101	6.419	6.419	(0.778)	26610	0.50000	0.60
17	trans-1,2-Dichloroethene	61	7.056	7.056	(0.855)	11404	0.50000	0.50
18	1,1-Dichloroethane	63	7.269	7.269	(0.880)	18420	0.50000	0.62
19	Methyl tert-Butyl Ether	73	7.375	7.360	(0.893)	11739	0.50000	0.50
20	Methyl Ethyl Ketone	43	7.739	7.709	(0.937)	11611	0.50000	0.48(aM)
21	cis-1,2-Dichloroethene	61	8.088	8.088	(0.980)	12498	0.50000	0.58
* 22	Bromochloromethane	128	8.255	8.255	(1.000)	242777	10.0000	
23	n-Hexane	57	8.331	8.331	(1.009)	9789	0.50000	0.59
24	Chloroform	83	8.392	8.392	(1.017)	28228	0.50000	0.60
25	Tetrahydrofuran	42	8.892	8.832	(0.867)	5283	0.50000	0.65(M)
26	1,2-Dichloroethane	62	9.150	9.150	(0.892)	16948	0.50000	0.74
27	1,1,1-Trichloroethane	97	9.408	9.408	(0.917)	27902	0.50000	0.74
28	Benzene	78	9.879	9.879	(0.963)	13208	0.50000	0.49(a)
29	Carbon Tetrachloride	117	10.031	10.031	(0.978)	7002	0.50000	0.51(Q)
30	Cyclohexane	56	10.167	10.167	(0.991)	4033	0.50000	0.39(a)
* 31	1,4-Difluorobenzene	114	10.258	10.258	(1.000)	615924	10.0000	
32	1,2-Dichloropropane	63	10.744	10.744	(1.047)	3841	0.50000	0.44(aQM)
33	Bromodichloromethane	83	10.941	10.941	(1.067)	15800	0.50000	0.55
34	Trichloroethene	95	10.987	10.987	(1.071)	7572	0.50000	0.50(Q)
35	1,4-Dioxane	88	11.093	11.017	(1.081)	2339	0.50000	0.44(aM)
36	2,2,4-Trimethylpentane	57	11.063	11.063	(1.078)	14631	0.50000	0.42(a)
37	n-Heptane	43	11.336	11.336	(1.105)	5490	0.50000	0.50(Q)
38	cis-1,3-Dichloropropene	75	11.928	11.928	(1.163)	4134	0.50000	0.42(a)
39	Methyl Isobutyl Ketone	43	12.003	11.988	(1.170)	8077	0.50000	0.45(a)
40	trans-1,3-Dichloropropene	75	12.504	12.504	(1.219)	3615	0.50000	0.44(a)
41	1,1,2-Trichloroethane	83	12.702	12.702	(0.841)	6841	0.50000	0.59
42	Toluene	92	13.035	13.020	(0.863)	5788	0.50000	0.35(a)
43	Methyl Butyl Ketone	43	13.354	13.324	(0.884)	7643	0.50000	0.41(a)
44	Dibromochloromethane	129	13.491	13.491	(0.893)	12555	0.50000	0.41(a)
45	1,2-Dibromoethane	107	13.779	13.779	(0.913)	25614	0.50000	0.49(a)
46	Tetrachloroethene	166	14.340	14.340	(0.950)	7671	0.50000	0.37(aQ)
* 47	Chlorobenzene-d5	117	15.099	15.099	(1.000)	522312	10.0000	
48	Chlorobenzene	112	15.145	15.145	(1.003)	16331	0.50000	0.55
49	Ethylbenzene	91	15.630	15.615	(1.035)	16806	0.50000	0.33(a)
50	Xylene (m,p)	106	15.843	15.828	(1.049)	24922	1.00000	1.2
51	Bromoform	173	15.919	15.919	(1.054)	19195	0.50000	0.56
52	Styrene	104	16.298	16.298	(1.079)	11322	0.50000	0.46(a)
53	1,1,2,2-Tetrachloroethane	83	16.404	16.404	(1.086)	20925	0.50000	0.58
54	Xylene (o)	106	16.435	16.435	(1.088)	10092	0.50000	0.54(Q)
55	2-Chlorotoluene	91	17.892	17.876	(1.185)	19872	0.50000	0.44(a)
56	4-Ethyltoluene	105	18.165	18.150	(1.203)	24769	0.50000	0.44(a)
57	1,3,5-Trimethylbenzene	105	18.271	18.271	(1.210)	21214	0.50000	0.40(a)
58	1,2,4-Trimethylbenzene	105	18.893	18.893	(1.251)	18289	0.50000	0.34(a)
59	1,3-Dichlorobenzene	146	19.106	19.106	(1.265)	18873	0.50000	0.48(a)
60	1,4-Dichlorobenzene	146	19.227	19.212	(1.273)	14281	0.50000	0.40(a)
61	1,2-Dichlorobenzene	146	19.758	19.758	(1.309)	14814	0.50000	0.42(a)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	ON-COL (ppbv)
62 1,2,4-Trichlorobenzene	180	22.444	22.444	(1.486)	8981	0.50000	0.41(a)
63 Hexachlorobutadiene	225	23.233	23.233	(1.539)	18745	0.50000	0.52

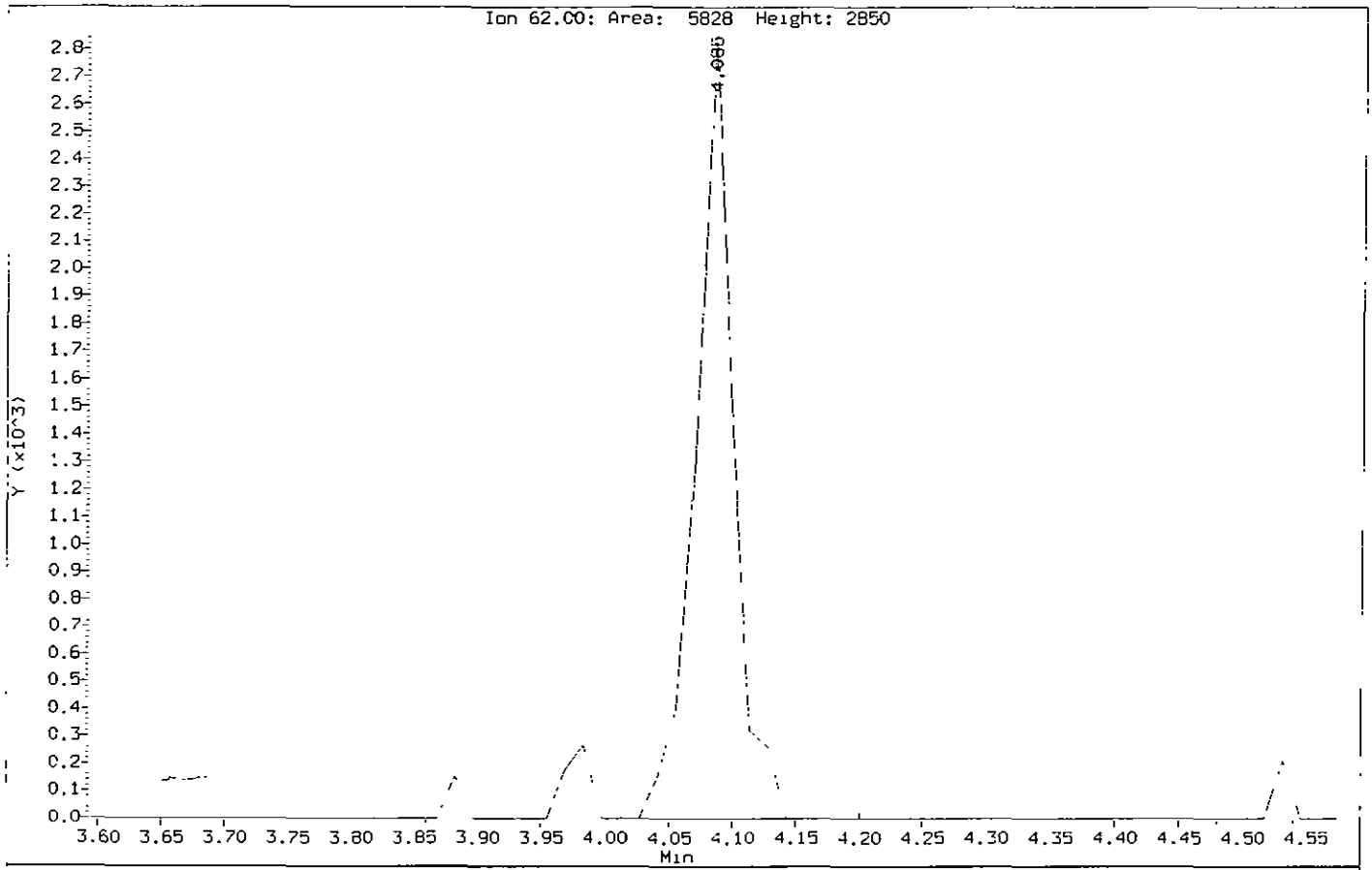
QC Flag Legend

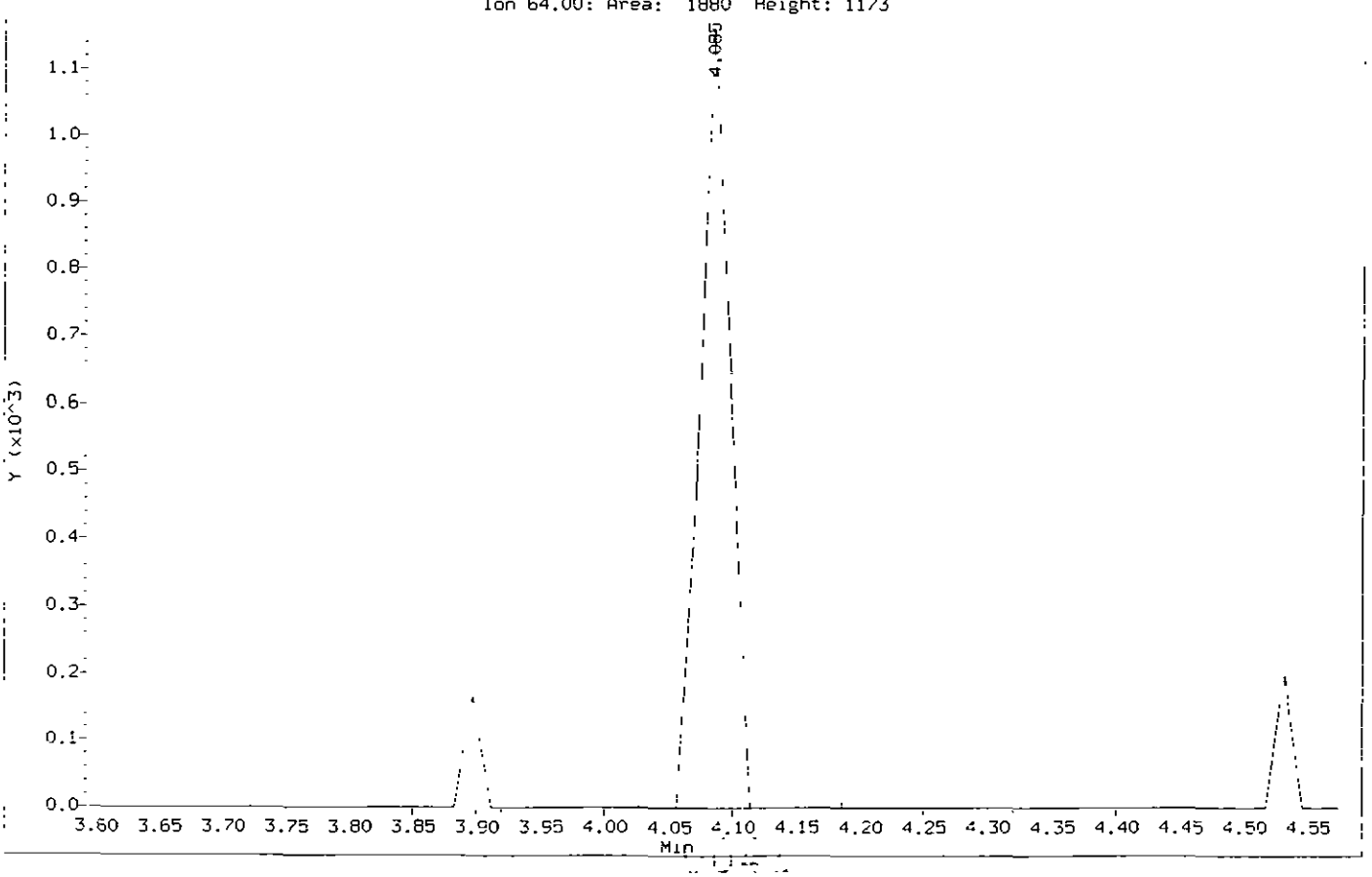
a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

5/15/01

Data File: /chem/X.i/Xsvr.p/xcxto15.b/cx0005.d
Injection Date: 09-MAY-2001 13:13
Instrument: X.i
Client Sample ID: ASTD0005

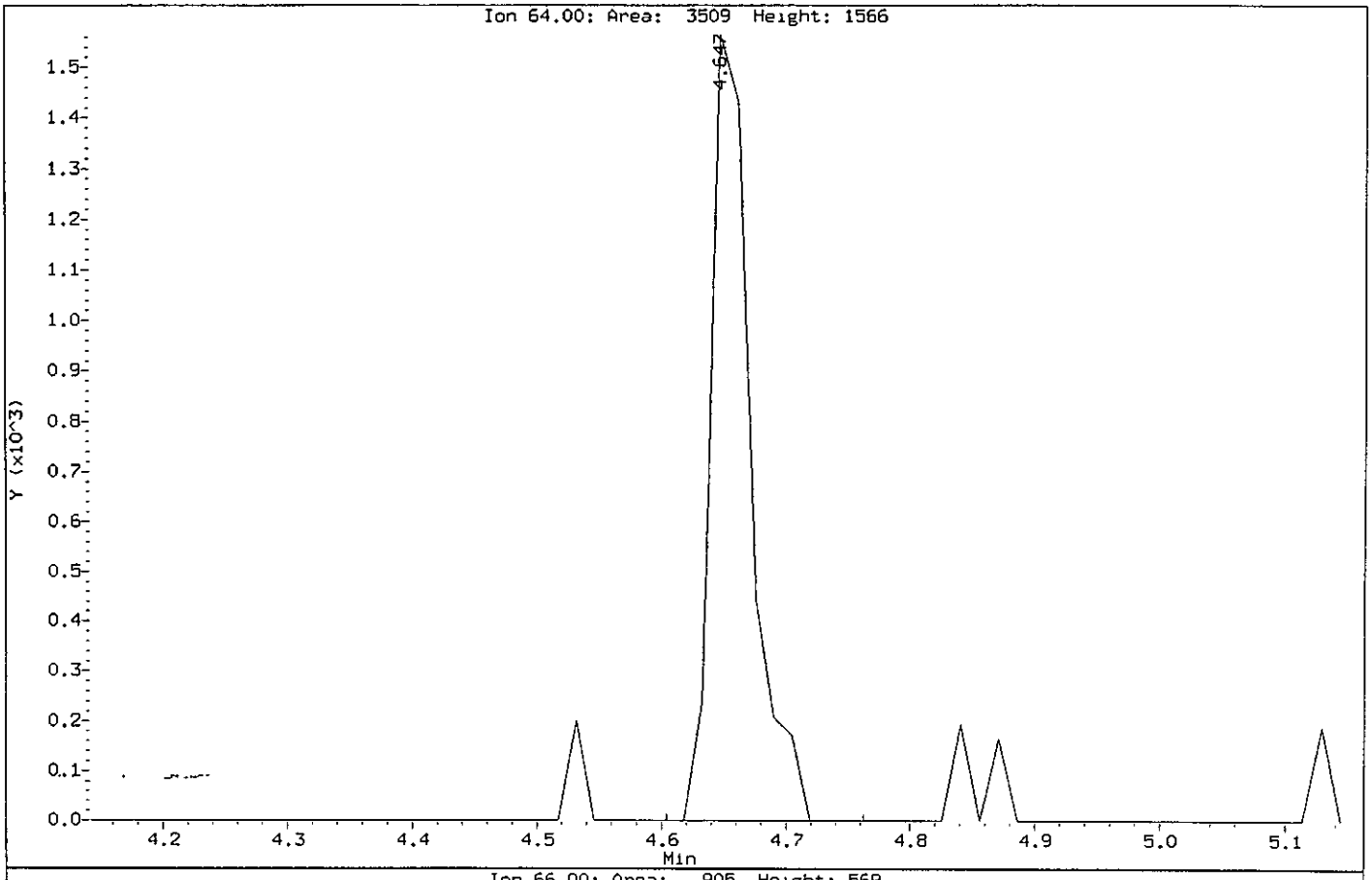
Compound: Vinyl Chloride
CAS Number: 75-01-4

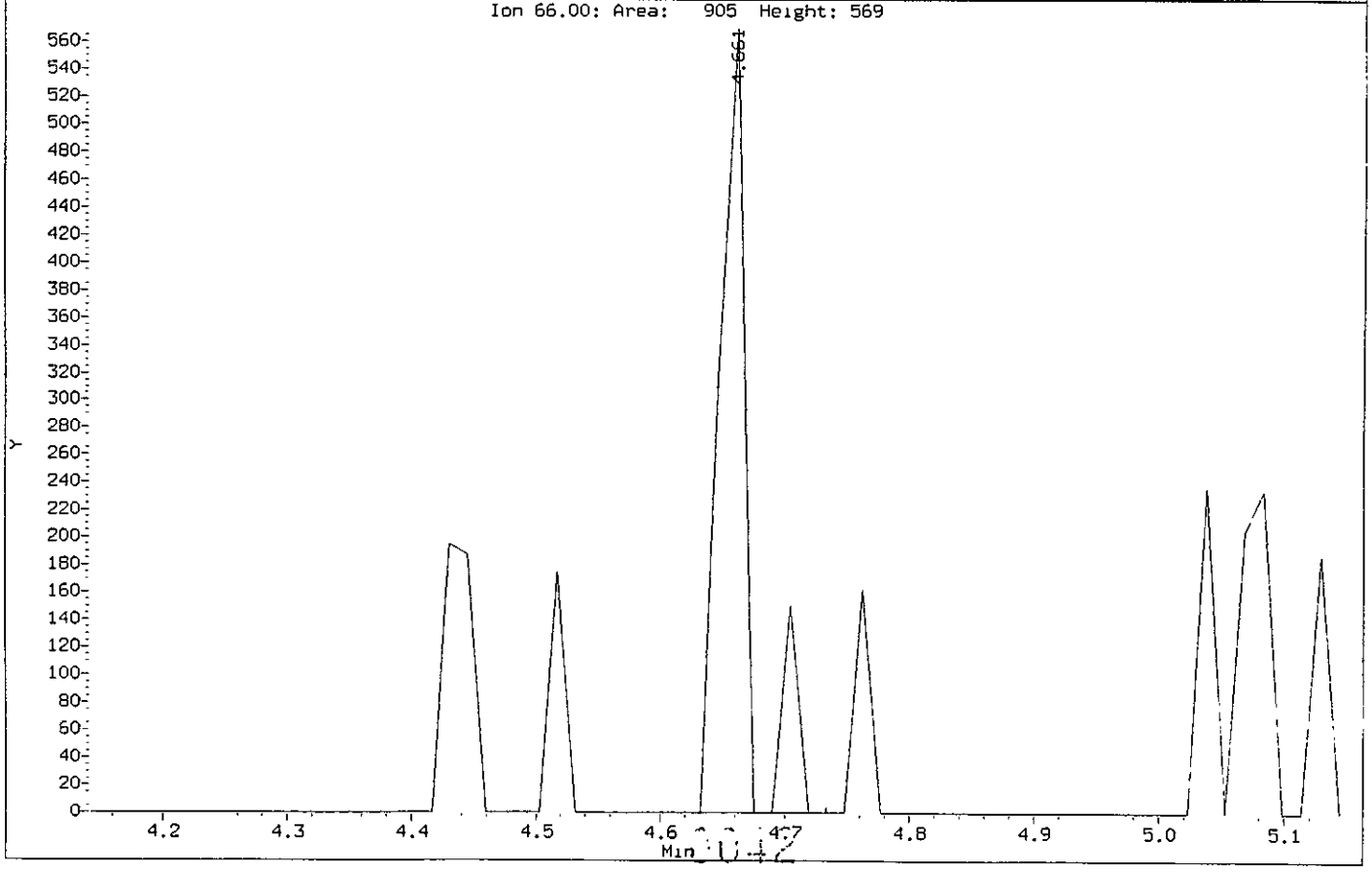




Data File: /chem/X.i/Xsvr.p/xcxto15.b/cx0005.d
Injection Date: 09-MAY-2001 13:13
Instrument: X.i
Client Sample ID: ASTD0005

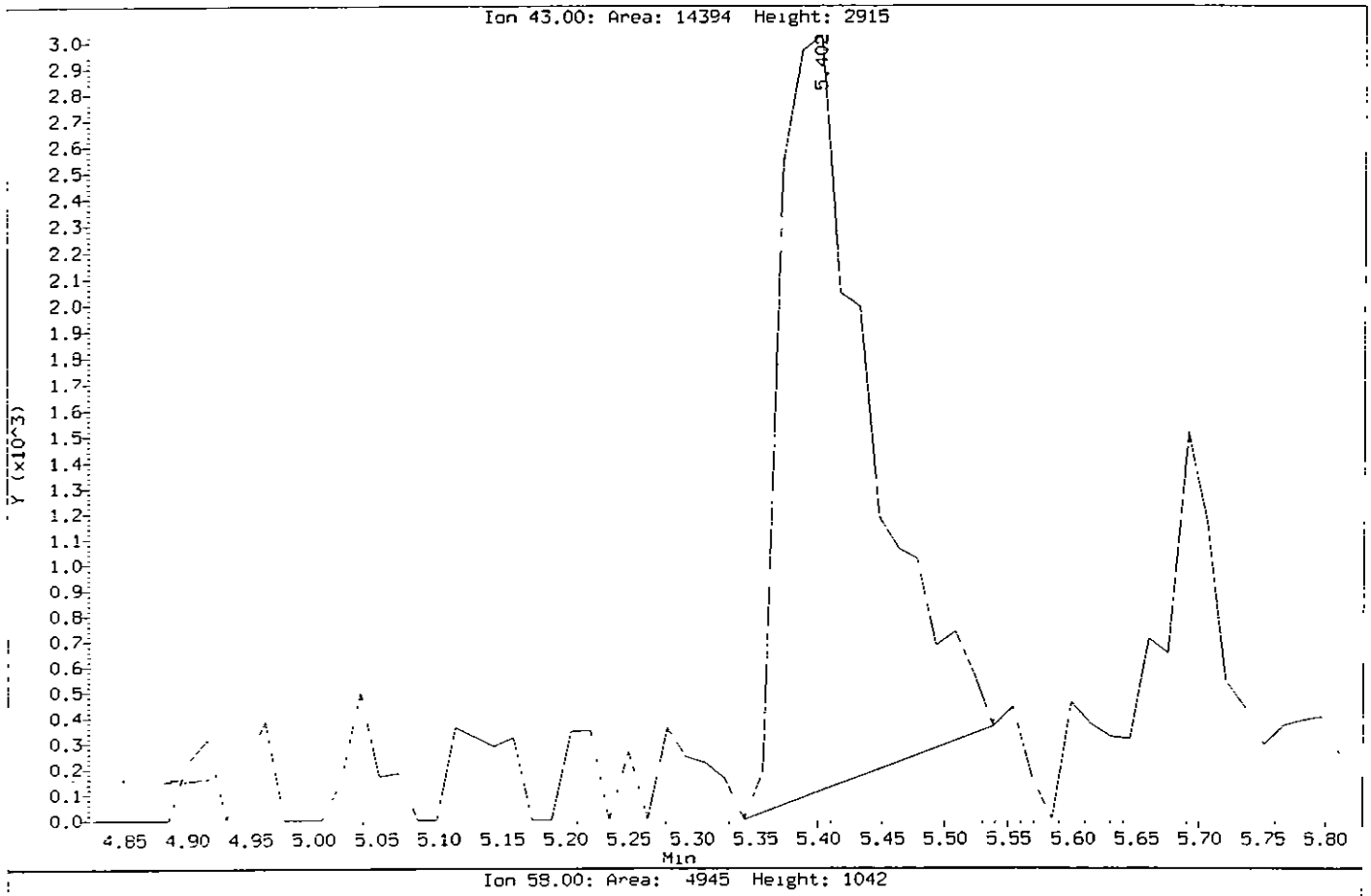
Compound: Chloroethane
CAS Number: 75-00-3

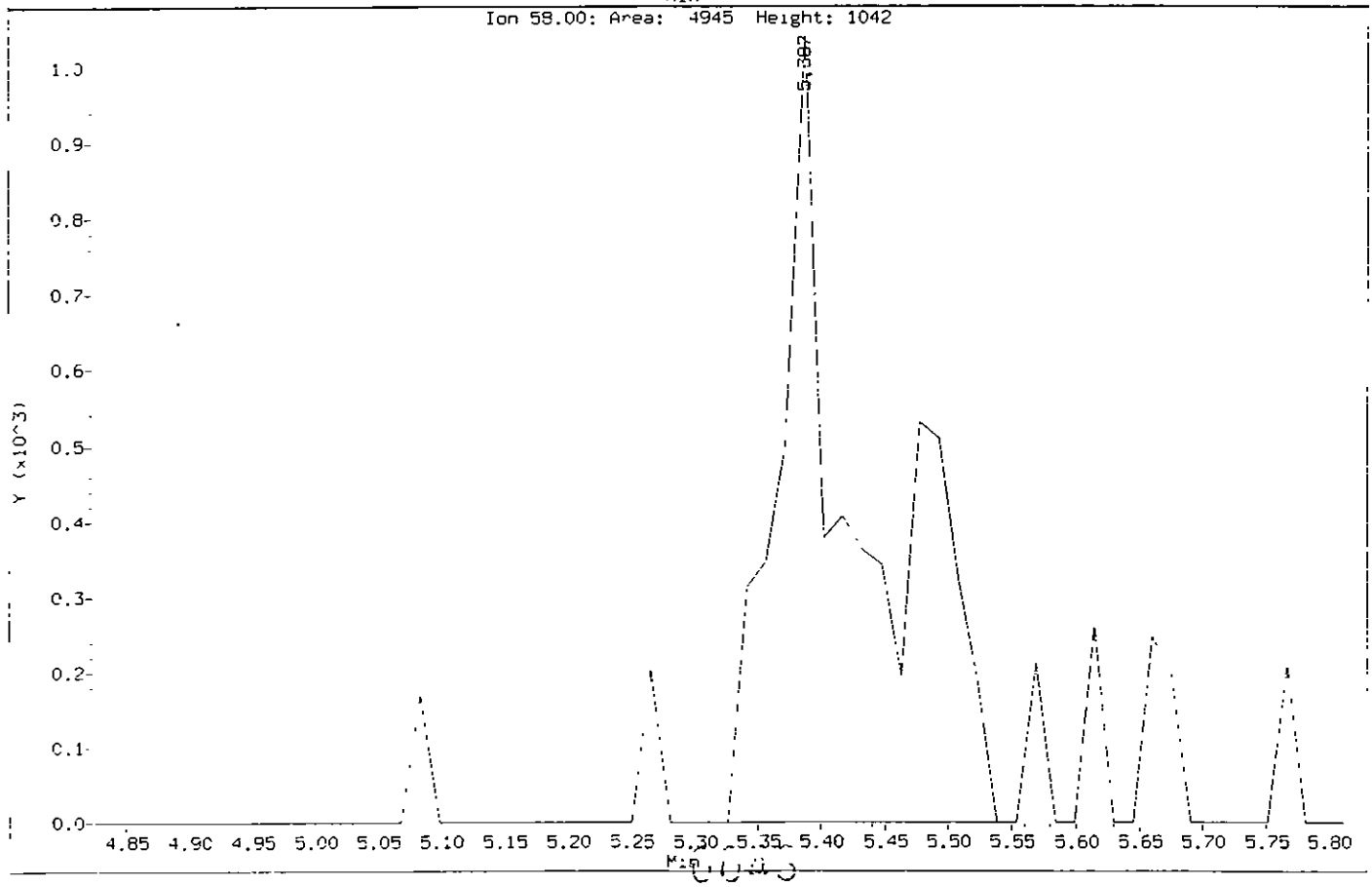




Data File: /chem/X.1/Xsvr.p/xcxto15.b/cx0005.d
Injection Date: 09-MAY-2001 13:13
Instrument: X.1
Client Sample ID: ASTD0005

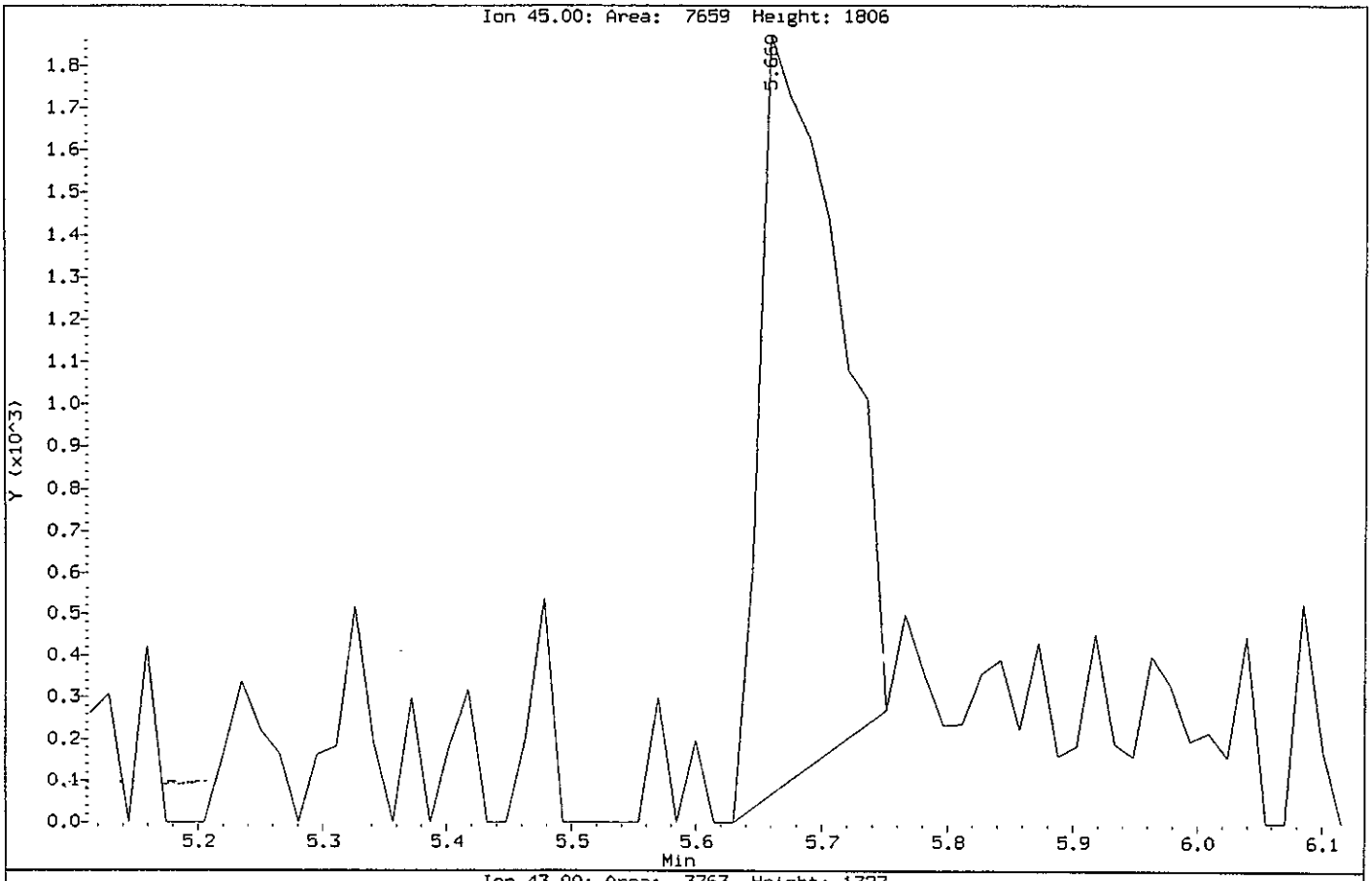
Compound: Acetone
CAS Number: 67-64-1

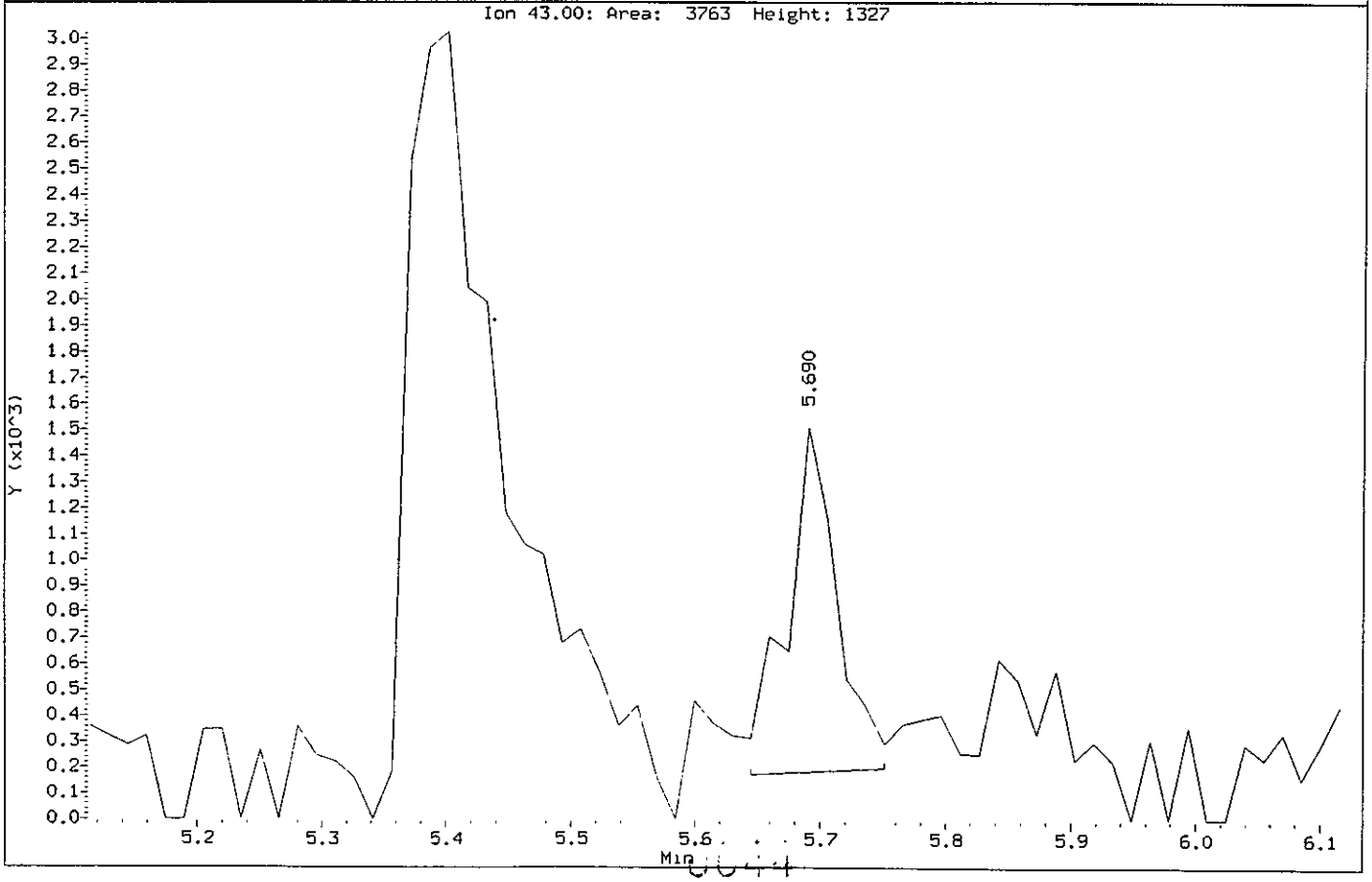




Data File: /chem/X.i/Xsvr.p/xcxto15.b/cx0005.d
Injection Date: 09-MAY-2001 13:13
Instrument: X.i
Client Sample ID: ASTD0005

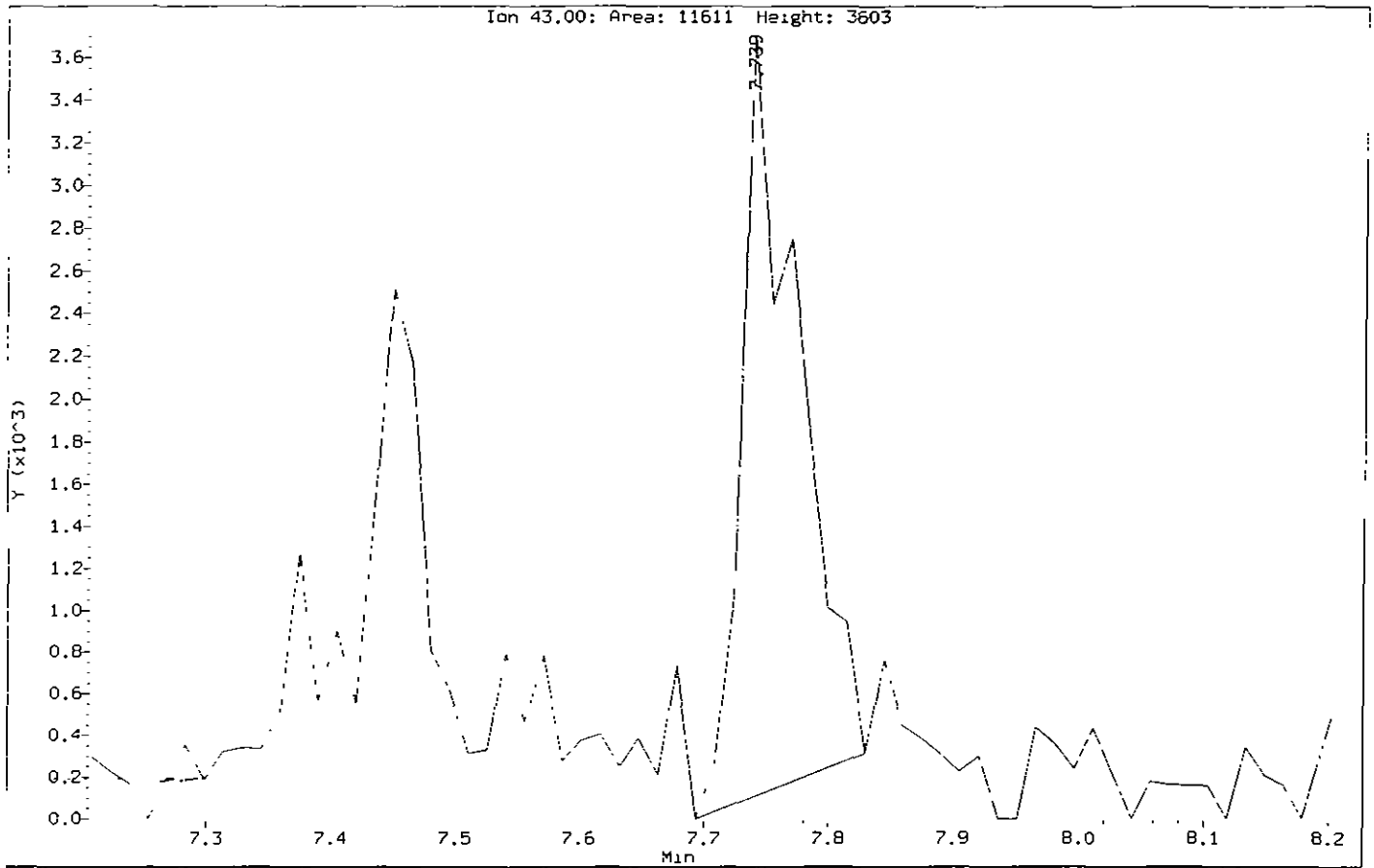
Compound: Isopropyl Alcohol
CAS Number: 67-63-0

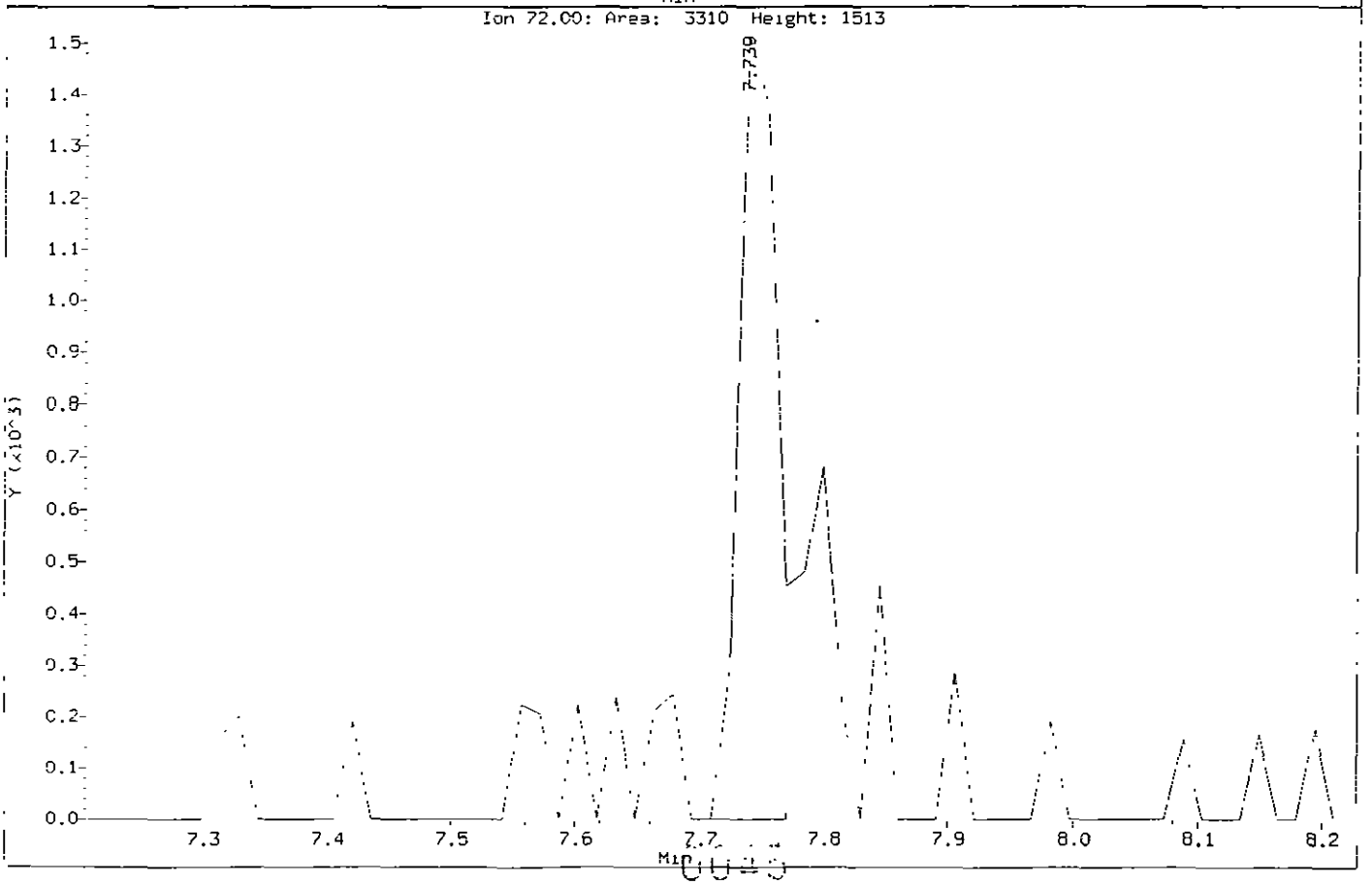




Data File: /chem/X.1/Xsvr.p/xcxto15.b/cx0005.d
Injection Date: 09-MAY-2001 13:13
Instrument: X.1
Client Sample ID: ASTD0005

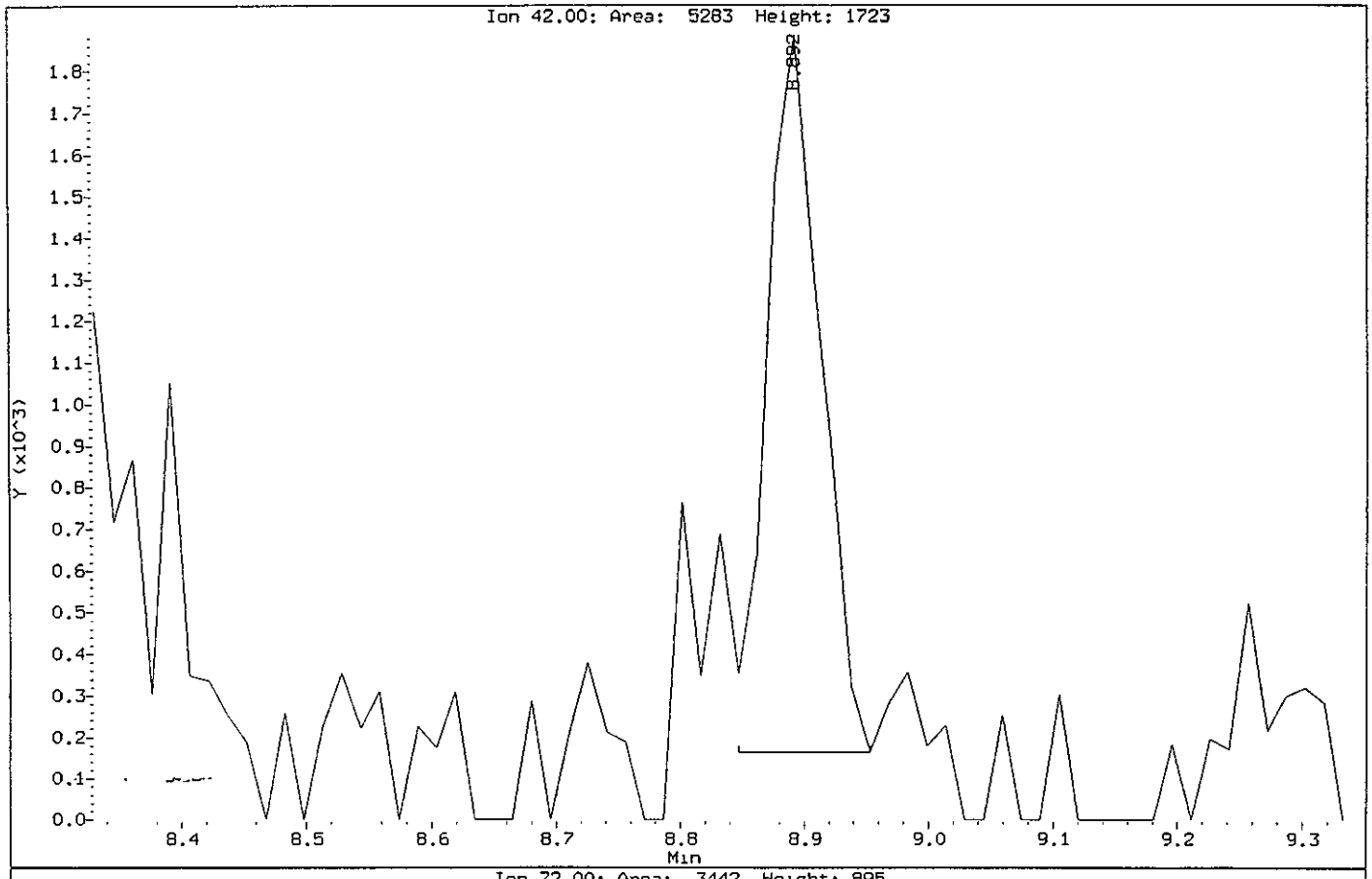
Compound: Methyl Ethyl Ketone
CAS Number: 78-93-3

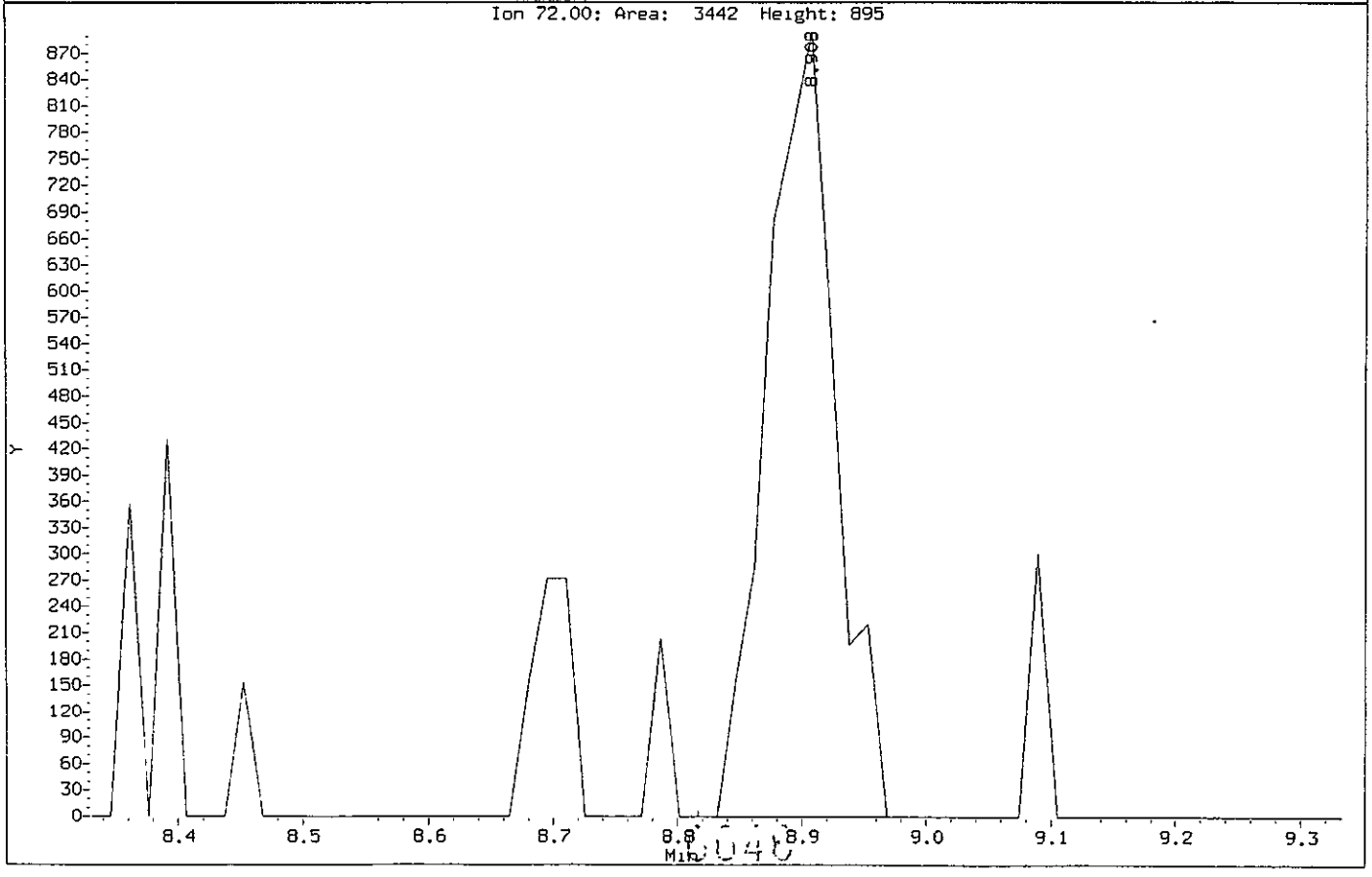




Data File: /chem/X.i/Xsvr.p/xcxto15.b/cx0005.d
Injection Date: 09-MAY-2001 13:13
Instrument: X.i
Client Sample ID: ASTD0005

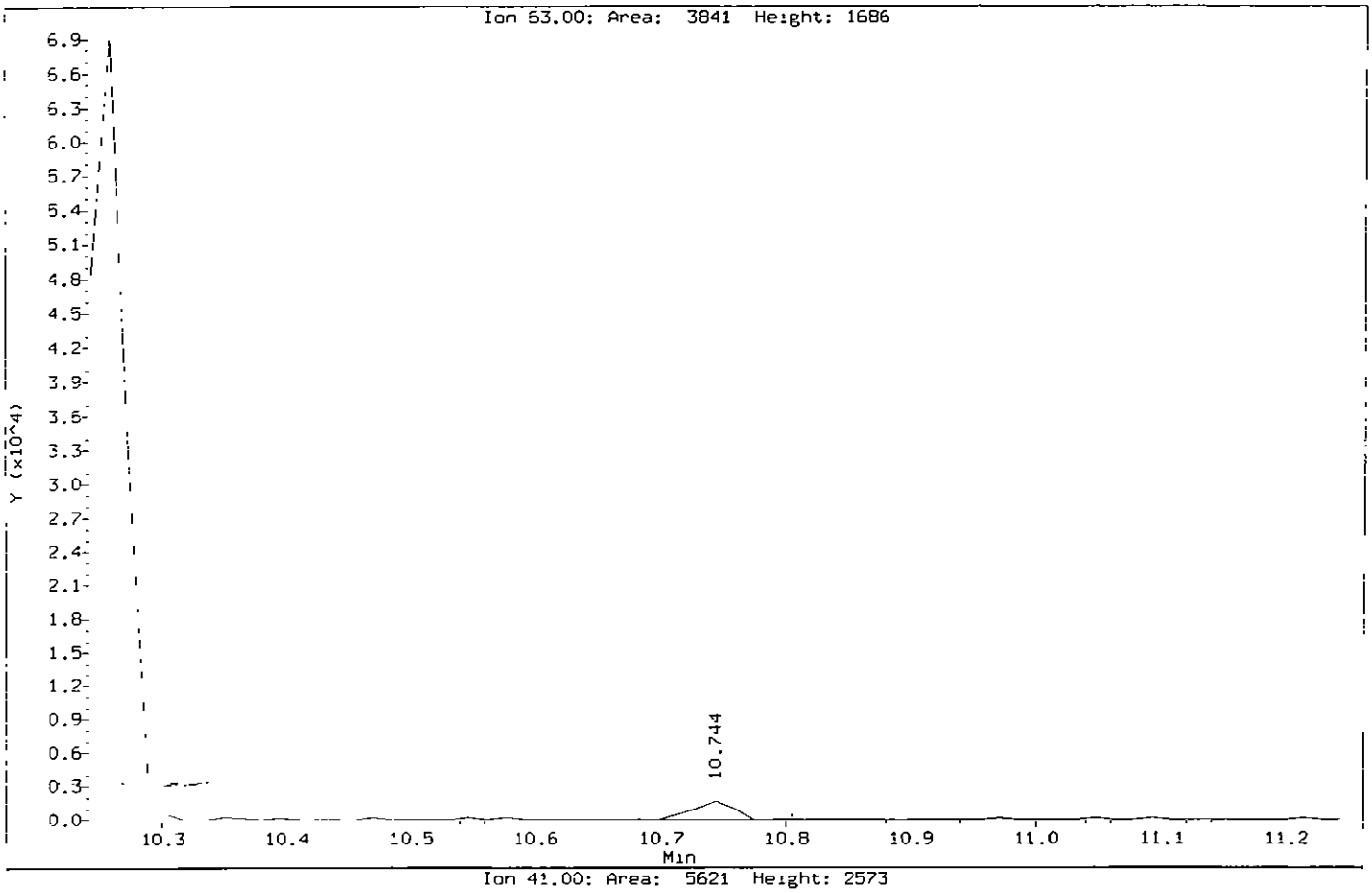
Compound: Tetrahydrofuran
CAS Number: 109-99-9

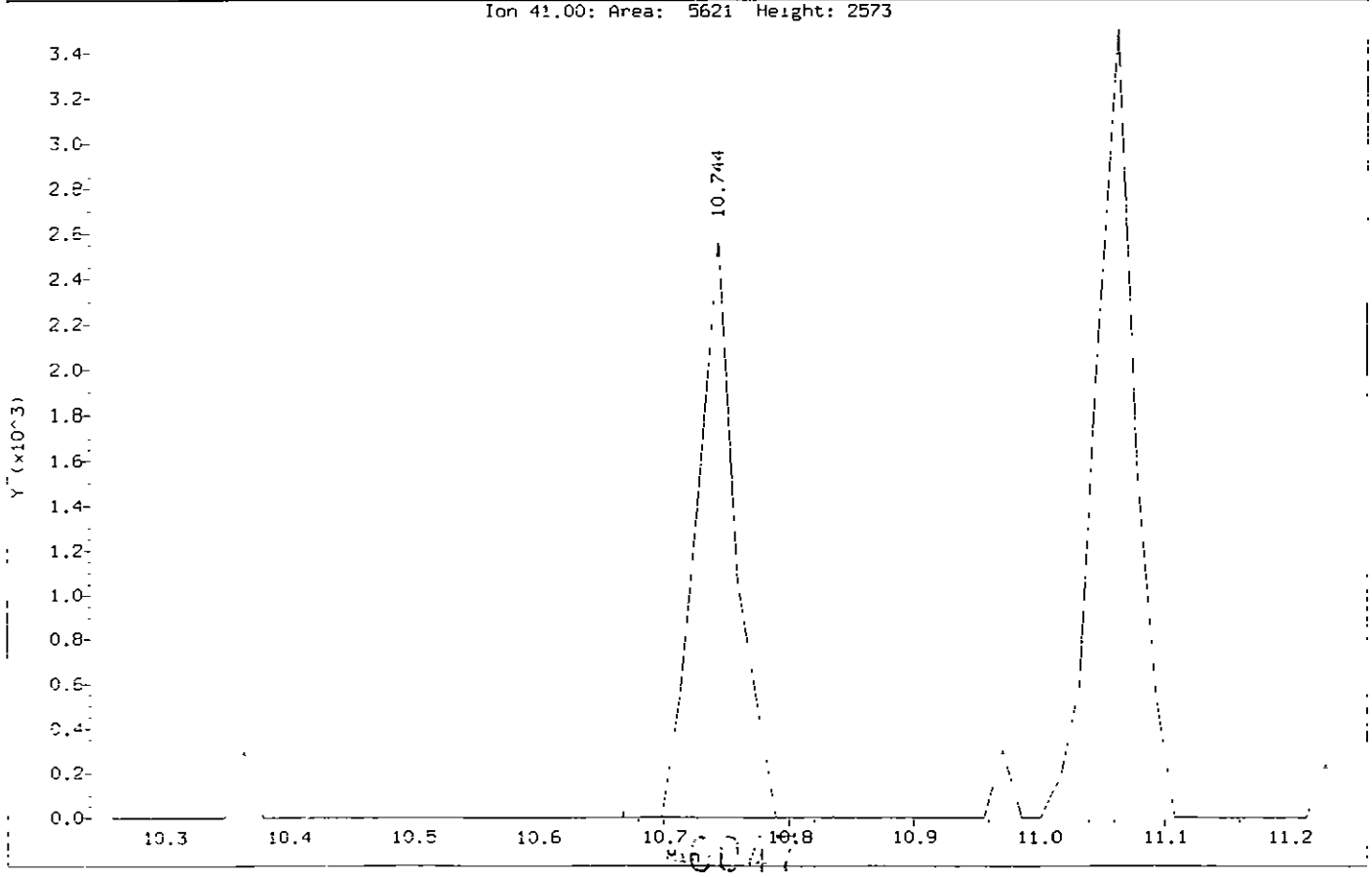




Data File: /chem/X.1/Xsvr.p/xcxtoi5.b/cx0005.d
Injection Date: 09-MAY-2001 13:13
Instrument: X.1
Client Sample ID: ASTD0005

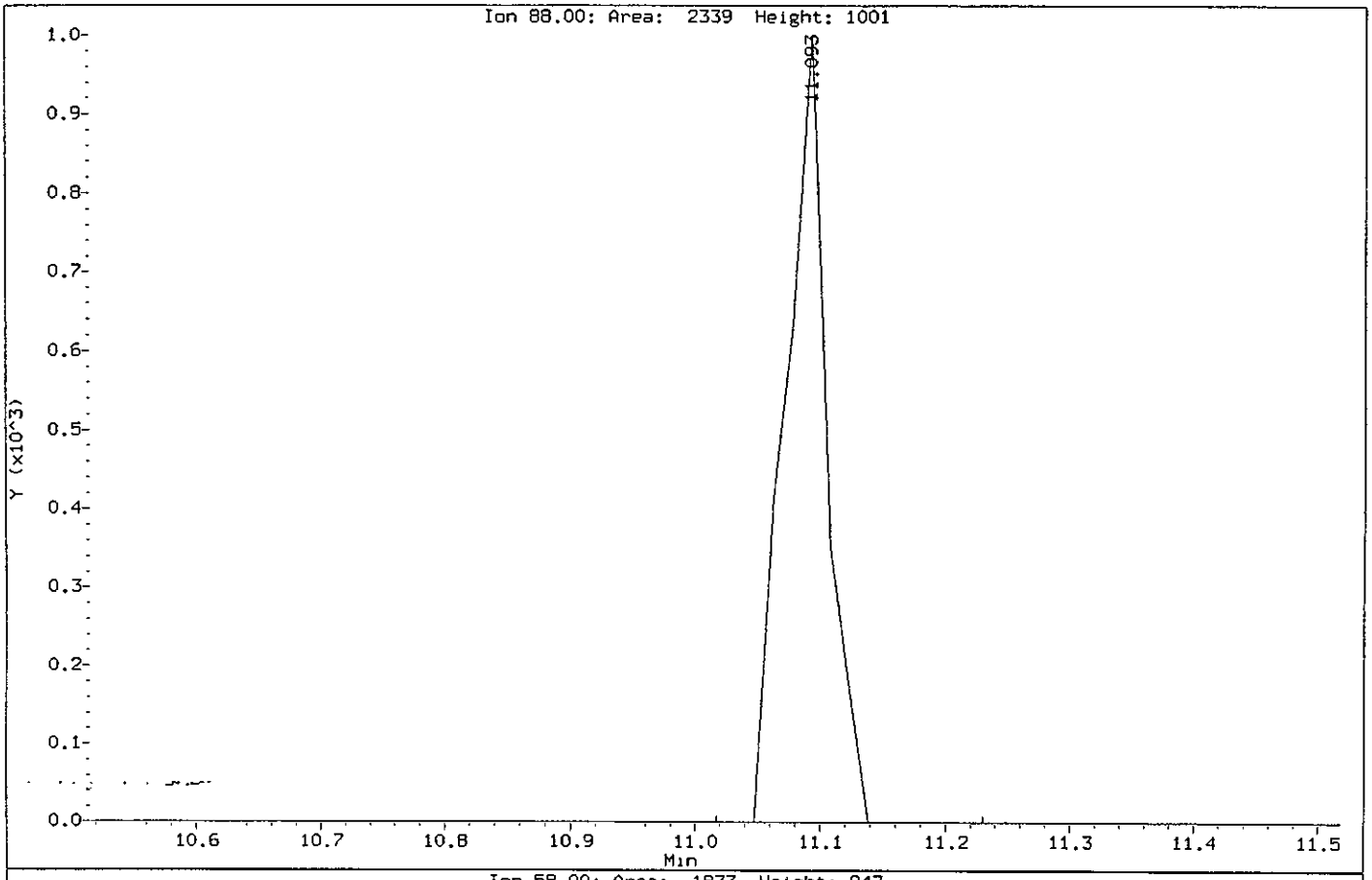
Compound: 1,2-Dichloropropane
CAS Number: 78-87-5

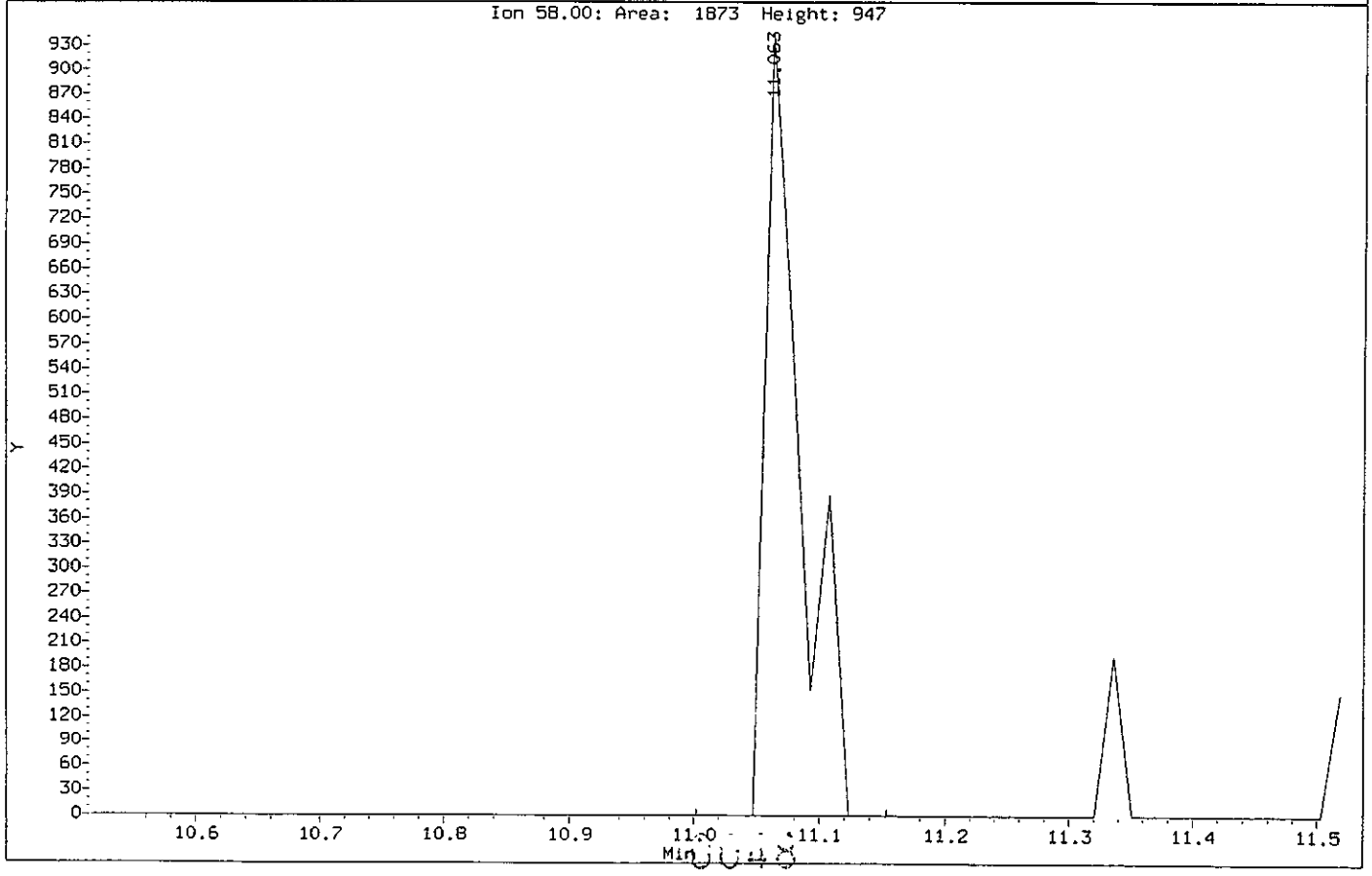




Data File: /chem/X.i/Xsvr.p/xcxto15.b/cx0005.d
Injection Date: 09-MAY-2001 13:13
Instrument: X.i
Client Sample ID: ASTD0005

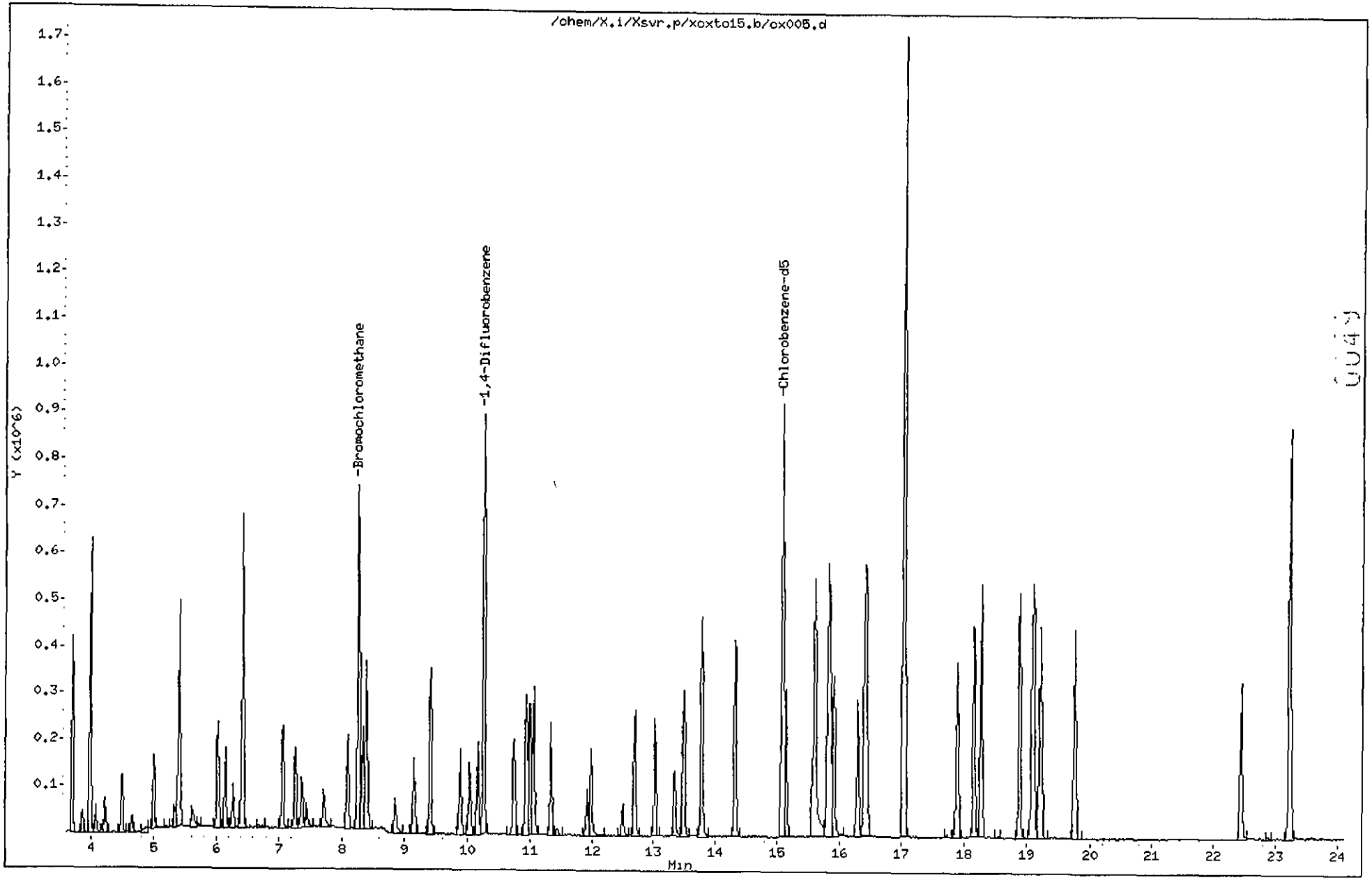
Compound: 1,4-Dioxane
CAS Number: 123-91-1





Data File: /chem/X.i/Xsvr.p/xcxto15.b/cx005.d
Date : 09-MAY-2001 12:04
Client ID: ASTD005
Sample Info: ASTD005;ASTD005
Purge Volume: 200.0
Column phase: DB-1

Instrument: X.1
Operator: GMM
Column diameter: 0.35



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AIR TOXICS QUANTITATION REPORT

Data file : /chem/X.i/Xsvr.p/xcxto15.b/cx005.d
Lab Smp Id: ASTD005 Client Smp ID: ASTD005
Inj Date : 09-MAY-2001 12:04
Operator : GMM Inst ID: X.i
Smp Info : ASTD005;ASTD005
Misc Info :
Comment :
Method : /chem/X.i/Xsvr.p/xcxto15.b/ato15.m
Meth Date : 15-May-2001 14:45 mim Quant Type: ISTD
Cal Date : 09-MAY-2001 12:04 Cal File: cx005.d
Als bottle: 3 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50
Processing Host: chemsvr4

Concentration Formula: Amt * DF * X* Uf/Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
X	200.00000	method volume factor
Uf	1.00000	ng unit correction factor
Vo	200.00000	Sample Volume purged (mL)

Cpnd Variable Local Compound Variable

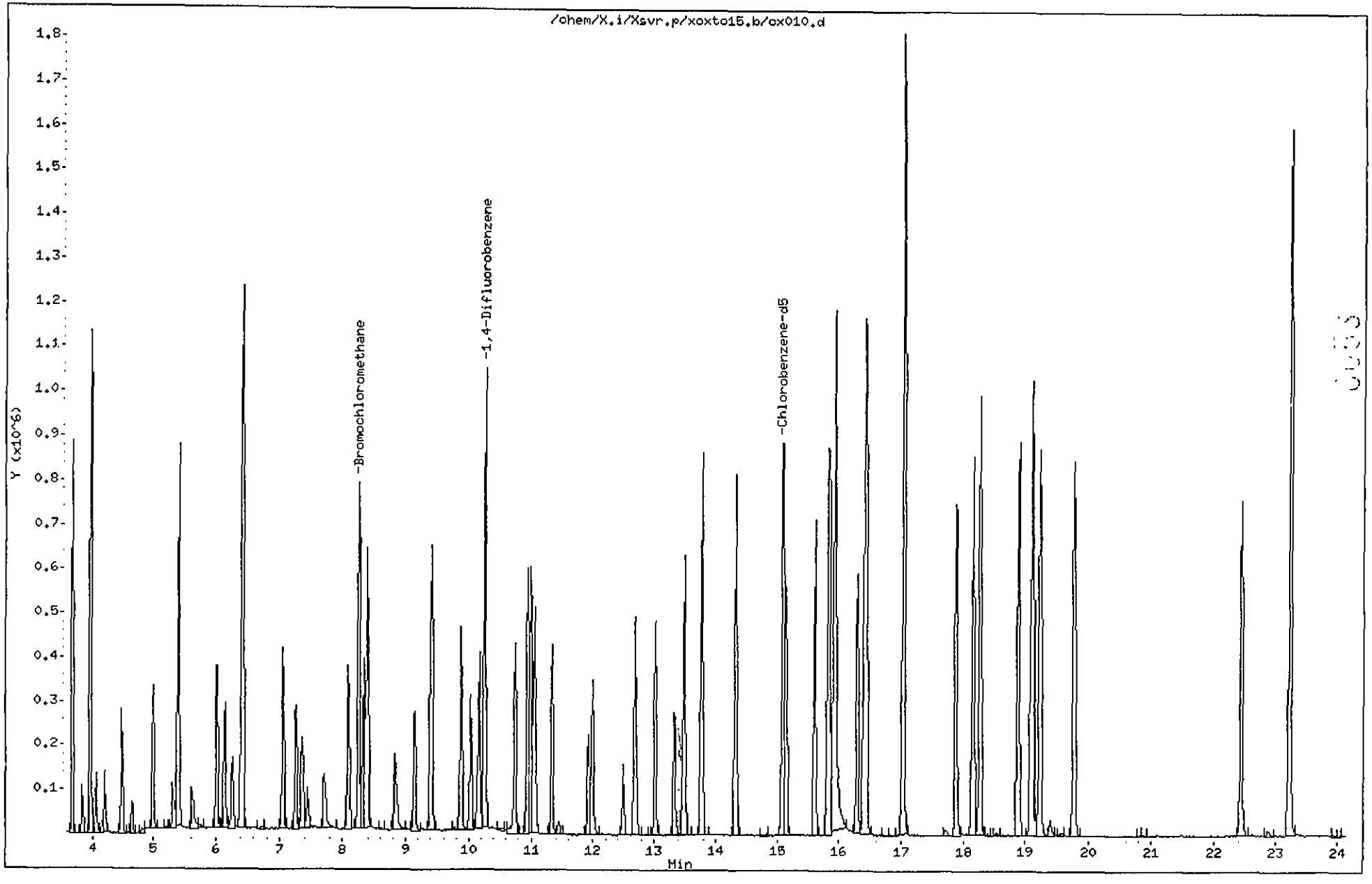
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	ON-COL (ppbv)
1 Dichlorodifluoromethane	85	3.684	3.682	(0.446)	423936	5.00000	5.2
2 Chloromethane	50	3.856	3.840	(0.467)	56811	5.00000	5.0
3 Dichlorotetrafluoroethane	85	3.986	3.970	(0.483)	348290	5.00000	5.1
4 Vinyl Chloride	62	4.073	4.071	(0.493)	64387	5 00000	5.0
5 1,3-Butadiene	54	4.217	4.215	(0.511)	41512	5.00000	5.1
6 Bromomethane	94	4.491	4.474	(0.544)	87866	5.00000	5.0
7 Chloroethane	64	4.664	4.647	(0.565)	36582	5.00000	5.2
8 Bromoethene	106	4.994	4.992	(0 605)	107097	5.00000	5.2
9 Acetone	43	5.328	5.311	(0.645)	115847	5.00000	5.2
10 Trichlorofluoromethane	101	5.403	5.402	(0.654)	421647	5.00000	5.4
11 Isopropyl Alcohol	45	5.616	5.615	(0.680)	84496	5.00000	5.2
12 1,1-Dichloroethene	96	6.026	6.024	(0.730)	89923	5.00000	5.2
13 Methylene Chloride	49	6.147	6.146	(0.744)	98563	5.00000	5.4
14 3-Chloropropene	41	6.268	6.267	(0.759)	49907	5.00000	5.2

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	AMOUNTS ON-COL (ppbv)
	15 Carbon Disulfide	76	6.405	6.404	(0.776)	242736	5.00000	5.2
	16 Freon TF	101	6.420	6.419	(0.778)	247372	5.00000	5.3
	17 trans-1,2-Dichloroethene	61	7.058	7.056	(0.855)	131584	5.00000	5.4
	18 1,1-Dichloroethane	63	7.270	7.269	(0.881)	159677	5.00000	5.2
	19 Methyl tert-Butyl Ether	73	7.361	7.360	(0.892)	120022	5.00000	5.2
	20 Methyl Ethyl Ketone	43	7.710	7.709	(0.934)	134538	5.00000	5.2
	21 cis-1,2-Dichloroethene	61	8.089	8.088	(0.980)	116529	5.00000	5.2
*	22 Bromochloromethane	128	8.256	8.255	(1.000)	253226	10.0000	
	23 n-Hexane	57	8.332	8.331	(1.009)	91494	5.00000	5.3
	24 Chloroform	83	8.393	8.392	(1.017)	265303	5.00000	5.3
	25 Tetrahydrofuran	42	8.848	8.832	(0.862)	52396	5.00000	5.7
	26 1,2-Dichloroethane	62	9.152	9.150	(0.892)	172004	5.00000	6.4
	27 1,1,1-Trichloroethane	97	9.410	9.408	(0.917)	262615	5.00000	6.1
	28 Benzene	78	9.880	9.879	(0.963)	155403	5.00000	4.9
	29 Carbon Tetrachloride	117	10.032	10.031	(0.978)	104467	5.00000	5.9
	30 Cyclohexane	56	10.169	10.167	(0.991)	68156	5.00000	5.4
*	31 1,4-Difluorobenzene	114	10.260	10.258	(1.000)	705826	10.0000	
	32 1,2-Dichloropropane	63	10.745	10.744	(1.047)	59977	5.00000	5.6
	33 Bromodichloromethane	83	10.942	10.941	(1.067)	209198	5.00000	5.9
	34 Trichloroethene	95	10.988	10.987	(1.071)	110566	5.00000	6.0
	35 1,4-Dioxane	88	11.034	11.017	(1.075)	37936	5.00000	6.2
	36 2,2,4-Trimethylpentane	57	11.064	11.063	(1.078)	266426	5.00000	6.1
	37 n-Heptane	43	11.337	11.336	(1.105)	82137	5.00000	6.2
	38 cis-1,3-Dichloropropene	75	11.929	11.928	(1.163)	60156	5.00000	5.7
	39 Methyl Isobutyl Ketone	43	11.990	11.988	(1.169)	139559	5.00000	5.9
	40 trans-1,3 Dichloropropene	75	12.506	12.504	(1.219)	42584	5.00000	5.5
	41 1,1,2-Trichloroethane	83	12.703	12.702	(0.841)	75246	5.00000	5.0
	42 Toluene	92	13.022	13.020	(0.862)	107315	5.00000	5.0
	43 Methyl Butyl Ketone	43	13.340	13.324	(0.883)	135489	5.00000	5.1
	44 Dibromochloromethane	129	13.492	13.491	(0.893)	202975	5.00000	4.9
	45 1,2-Dibromoethane	107	13.780	13.779	(0.913)	360410	5.00000	5.1
	46 Tetrachloroethene	166	14.342	14.340	(0.950)	133229	5.00000	5.1
*	47 Chlorobenzene-d5	117	15.101	15.099	(1.000)	630355	10.0000	
	48 Chlorobenzene	112	15.146	15.145	(1.003)	190296	5.00000	5.1
	49 Ethylbenzene	91	15.617	15.615	(1.034)	452291	5.00000	5.8
	50 Xylene m,p,	106	15.844	15.828	(1.049)	286501	10.0000	11
	51 Bromoform	173	15.920	15.919	(1.054)	210886	5.00000	5.2
	52 Styrene	104	16.299	16.298	(1.079)	167759	5.00000	4.8
	53 1,1,2,2-Tetrachloroethane	83	16.406	16.404	(1.086)	256878	5.00000	4.9
	54 Xylene o	106	16.436	16.435	(1.088)	134561	5.00000	4.9
	55 2-Chlorotoluene	91	17.878	17.876	(1.184)	340514	5.00000	4.9
	56 4-Ethyltoluene	105	18.166	18.150	(1.203)	431104	5.00000	5.0
	57 1,3,5-Trimethylbenzene	105	18.272	18.271	(1.210)	428795	5.00000	5.1
	58 1,2,4-Trimethylbenzene	105	18.894	18.893	(1.251)	427734	5.00000	5.1
	59 1,3-Dichlorobenzene	146	19.122	19.106	(1.266)	283634	5.00000	5.0
	60 1,4-Dichlorobenzene	146	19.228	19.212	(1.273)	264775	5.00000	5.1
	61 1,2-Dichlorobenzene	146	19.759	19.758	(1.309)	258097	5.00000	5.1

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	AMOUNTS ON-COL (ppbv)
62 1,2,4-Trichlorobenzene	180	22.445	22.444	(1.486)	136944	5.00000	4.6
63 Hexachlorobutadiene	225	23.235	23.233	(1.539)	253795	5.00000	5.1

Data File: /chem/X.i/Xsvr.p/xoxto15.b/ox010.d
Date : 09-MAY-2001 11:29
Client ID: ASTD010
Sample Info: ASTD010;ASTD010
Purge Volume: 200.0
Column phase: DB-1

Instrument: X.i
Operator: CMM
Column diameter: 0.35



STL Burlington

AIR TOXICS QUANTITATION REPORT

Data file : /chem/X.i/Xsvr.p/xcxto15.b/cx010.d
Lab Smp Id: ASTD010 Client Smp ID: ASTD010
Inj Date : 09-MAY-2001 11:29
Operator : GMM Inst ID: X.i
Smp Info : ASTD010;ASTD010
Misc Info :
Comment :
Method : /chem/X.i/Xsvr.p/xcxto15.b/ato15.m
Meth Date : 15-May-2001 14:45 mim Quant Type: ISTD
Cal Date : 09-MAY-2001 11:29 Cal File: cx010.d
Als bottle: 4 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50
Processing Host: chemsvr4

Concentration Formula: Amt * DF * X* Uf/Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
X	200.00000	method volume factor
Uf	1.00000	ng unit correction factor
Vo	200.00000	Sample Volume purged (mL)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	AMOUNTS ON-COL (ppbv)
1 Dichlorodifluoromethane	85	3.682	3.682	(0.446)	784288	10.0000	10
2 Chloromethane	50	3.840	3.840	(0.465)	118007	10.0000	10
3 Dichlorotetrafluoroethane	85	3.970	3.970	(0.481)	686816	10.0000	10
4 Vinyl Chloride	62	4.071	4.071	(0.493)	131986	10.0000	10
5 1,3-Butadiene	54	4.215	4.215	(0.511)	82498	10.0000	10
6 Bromomethane	94	4.474	4.474	(0.542)	179660	10.0000	10
7 Chloroethane	64	4.647	4.647	(0.563)	67993	10.0000	10
8 Bromoethene	106	4.992	4.992	(0.605)	204629	10.0000	10
9 Acetone	43	5.311	5.311	(0.643)	220004	10.0000	10
10 Trichlorofluoromethane	101	5.402	5.402	(0.654)	737522	10.0000	10
11 Isopropyl Alcohol	45	5.615	5.615	(0.680)	157291	10.0000	10
12 1,1-Dichloroethene	96	6.024	6.024	(0.730)	171252	10.0000	10
13 Methylene Chloride	49	6.146	6.146	(0.744)	172842	10.0000	10
14 3-Chloropropene	41	6.267	6.267	(0.759)	94635	10.0000	10

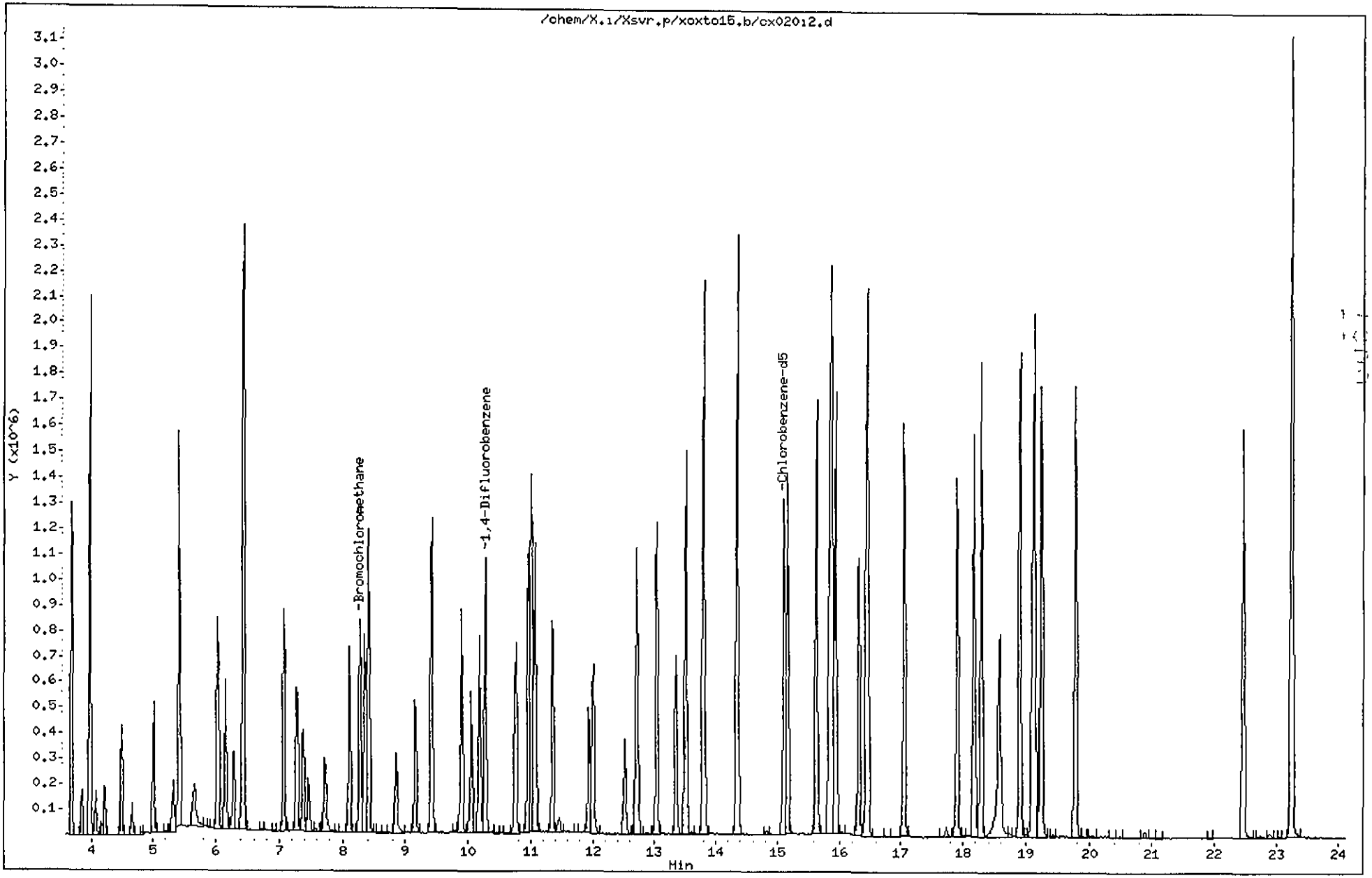
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	ON-COL (ppbv)
	15 Carbon Disulfide	76	6.404	6.404	(0.776)	463081	10.0000	10
	16 Freon TF	101	6.419	6.419	(0.778)	448479	10.0000	10
	17 trans-1,2-Dichloroethene	61	7.056	7.056	(0.855)	233442	10.0000	10
	18 1,1-Dichloroethane	63	7.269	7.269	(0.880)	301393	10.0000	10
	19 Methyl tert-Butyl Ether	73	7.360	7.360	(0.892)	222995	10.0000	10
	20 Methyl Ethyl Ketone	43	7.709	7.709	(0.934)	248232	10.0000	10
	21 cis-1,2-Dichloroethene	61	8.088	8.088	(0.980)	218880	10.0000	10
*	22 Bromochloromethane	128	8.255	8.255	(1.000)	258881	10.0000	
	23 n-Hexane	57	8.331	8.331	(1.009)	164315	10.0000	10
	24 Chloroform	83	8.392	8.392	(1.017)	478957	10.0000	10
	25 Tetrahydrofuran	42	8.832	8.832	(0.861)	120384	10.0000	10
	26 1,2-Dichloroethane	62	9.150	9.150	(0.892)	295602	10.0000	10
	27 1,1,1-Trichloroethane	97	9.408	9.408	(0.917)	502218	10.0000	10
	28 Benzene	78	9.879	9.879	(0.963)	477647	10.0000	10
	29 Carbon Tetrachloride	117	10.031	10.031	(0.978)	216831	10.0000	10
	30 Cyclohexane	56	10.167	10.167	(0.991)	175095	10.0000	10
*	31 1,4-Difluorobenzene	114	10.258	10.258	(1.000)	1061362	10.0000	
	32 1,2-Dichloropropane	63	10.744	10.744	(1.047)	143389	10.0000	10
	33 Bromodichloromethane	83	10.941	10.941	(1.067)	441125	10.0000	10
	34 Trichloroethene	95	10.987	10.987	(1.071)	217887	10.0000	10
	35 1,4-Dioxane	88	11.017	11.017	(1.074)	69727	10.0000	10
	36 2,2,4-Trimethylpentane	57	11.063	11.063	(1.078)	518401	10.0000	10
	37 n-Heptane	43	11.336	11.336	(1.105)	154099	10.0000	10
	38 cis-1,3-Dichloropropene	75	11.928	11.928	(1.163)	134386	10.0000	10
	39 Methyl Isobutyl Ketone	43	11.988	11.988	(1.169)	287110	10.0000	10
	40 trans-1,3-Dichloropropene	75	12.504	12.504	(1.219)	103084	10.0000	10
	41 1,1,2-Trichloroethane	83	12.702	12.702	(0.841)	145465	10.0000	10
	42 Toluene	92	13.020	13.020	(0.862)	210565	10.0000	10
	43 Methyl Butyl Ketone	43	13.324	13.324	(0.882)	257767	10.0000	10
	44 Dibromochloromethane	129	13.491	13.491	(0.893)	414374	10.0000	10
	45 1,2-Dibromoethane	107	13.779	13.779	(0.913)	668694	10.0000	10
	46 Tetrachloroethene	166	14.340	14.340	(0.950)	251876	10.0000	10
*	47 Chlorobenzene-d5	117	15.099	15.099	(1.000)	618836	10.0000	
	48 Chlorobenzene	112	15.145	15.145	(1.003)	353765	10.0000	10
	49 Ethylbenzene	91	15.615	15.615	(1.034)	646356	10.0000	10
	50 Xylene m,p	106	15.828	15.828	(1.048)	441611	20.0000	20
	51 Bromoform	173	15.919	15.919	(1.054)	388143	10.0000	10
	52 Styrene	104	16.298	16.298	(1.079)	358195	10.0000	10
	53 1,1,2,2-Tetrachloroethane	83	16.404	16.404	(1.086)	532137	10.0000	10
	54 Xylene o	106	16.435	16.435	(1.088)	276593	10.0000	10
	55 2-Chlorotoluene	91	17.876	17.876	(1.184)	690128	10.0000	10
	56 4-Ethyltoluene	105	18.150	18.150	(1.202)	829642	10.0000	10
	57 1,3,5-Trimethylbenzene	105	18.271	18.271	(1.210)	800343	10.0000	10
	58 1,2,4-Trimethylbenzene	105	18.893	18.893	(1.251)	801634	10.0000	10
	59 1,3-Dichlorobenzene	146	19.106	19.106	(1.265)	545274	10.0000	10
	60 1,4-Dichlorobenzene	146	19.212	19.212	(1.272)	504124	10.0000	10
	61 1,2-Dichlorobenzene	146	19.758	19.758	(1.309)	492470	10.0000	10

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	ON-COL (ppbv)
62 1,2,4-Trichlorobenzene	180	22.444	22.444	(1.486)	318681	10.0000	10
63 Hexachlorobutadiene	225	23.233	23.233	(1.539)	483908	10.0000	10

Data File: /chem/X.i/Xsvr.p/xcxto15.b/cx020i2.d
Date : 09-MAY-2001 14:41
Client ID: ASTD020
Sample Info: ASTD020;ASTD020
Purge Volume: 200.0
Column phase: DB-1

Instrument: X.i

Operator: GMM
Column diameter: 0.35



STL Burlington

AIR TOXICS QUANTITATION REPORT

Data file : /chem/X.i/Xsvr.p/xcxto15.b/cx020i2.d
Lab Smp Id: ASTD020 Client Smp ID: ASTD020
Inj Date : 09-MAY-2001 14:41
Operator : GMM Inst ID: X.i
Smp Info : ASTD020;ASTD020
Misc Info :
Comment :
Method : /chem/X.i/Xsvr.p/xcxto15.b/ato15.m
Meth Date : 15-May-2001 14:45 mim Quant Type: ISTD
Cal Date : 09-MAY-2001 14:41 Cal File: cx020i2.d
Als bottle: 5 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50
Processing Host: chemsvr4

Concentration Formula: Amt * DF * X* Uf/Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
X	200.00000	method volume factor
Uf	1.00000	ng unit correction factor
Vo	200.00000	Sample Volume purged (mL)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	AMOUNTS ON-COL (ppbv)
1 Dichlorodifluoromethane	85	3.682	3.682	(0.445)	1336540	20.0000	16
2 Chloromethane	50	3.855	3.840	(0.466)	197039	20.0000	16
3 Dichlorotetrafluoroethane	85	3 984	3.970	(0.482)	1070136	20.0000	16
4 Vinyl Chloride	62	4 071	4.071	(0.492)	199089	20.0000	16
5 1,3-Butadiene	54	4.215	4.215	(0.510)	126644	20.0000	15
6 Bromomethane	94	4 489	4.474	(0 543)	242033	20 0000	14
7 Chloroethane	64	4.662	4.647	(0 564)	105154	20.0000	15
8 Bromoethene	106	5.008	4.992	(0.606)	332457	20.0000	16
9 Acetone	43	5.312	5 311	(0.642)	457746	20.0000	18
10 Trichlorofluoromethane	101	5.418	5.402	(0.655)	1335322	20.0000	16
11 Isopropyl Alcohol	45	5.645	5.615	(0.683)	342123	20.0000	19
12 1,1-Dichloroethene	96	6.025	6 024	(0.728)	332285	20.0000	18
13 Methylene Chloride	49	6.146	6 146	(0.743)	360223	20.0000	18
14 3-Chloropropene	41	6.268	6.267	(0.758)	204908	20.0000	19

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	ON-COL (ppbv)
	15 Carbon Disulfide	76	6.419	6 404	(0.776)	935546	20.0000	19
	16 Freon TF	101	6.435	6 419	(0.778)	908984	20.0000	18
	17 trans-1,2-Dichloroethene	61	7.072	7.056	(0.855)	483746	20.0000	18
	18 1,1-Dichloroethane	63	7 269	7.269	(0.879)	607980	20.0000	18
	19 Methyl tert-Butyl Ether	73	7 375	7.360	(0.892)	488874	20.0000	18
	20 Methyl Ethyl Ketone	43	7.709	7.709	(0.932)	542842	20.0000	19
	21 cis-1,2-Dichloroethene	61	8.104	8.088	(0.980)	444328	20.0000	18
*	22 Bromochloromethane	128	8 271	8 255	(1.000)	280121	10.0000	
	23 n-Hexane	57	8.347	8.331	(1.009)	337570	20.0000	18
	24 Chloroform	83	8 407	8.392	(1.016)	941803	20.0000	17
	25 Tetrahydrofuran	42	8 847	8.832	(0.861)	240075	20.0000	16
	26 1,2-Dichloroethane	62	9.151	9.150	(0.891)	568822	20.0000	14
	27 1,1,1-Trichloroethane	97	9.424	9 408	(0.917)	1016062	20.0000	15
	28 Benzene	78	9.895	9.879	(0.963)	924500	20.0000	19
	29 Carbon Tetrachloride	117	10.046	10.031	(0.978)	388039	20.0000	16
	30 Cyclohexane	56	10.183	10.167	0.991)	365244	20.0000	20
*	31 1,4-Difluorobenzene	114	10.274	10.258	(1.000)	1111140	10.0000	
	32 1,2-Dichloropropane	63	10 760	10.744	(1.047)	276807	20.0000	18
	33 Bromodichloromethane	83	10.957	10 941	(1.066)	833699	20.0000	16
	34 Trichloroethene	95	11.002	10 987	(1.071)	493330	20.0000	18(Q)
	35 1,4-Dioxane	88	11.033	11.017	(1.074)	187543	20.0000	19
	36 2,2,4-Trimethylpentane	57	11.063	11.063	(1 077)	1177887	20.0000	19
	37 n-Heptane	43	11.336	11.326	(1 103)	361250	20.0000	18
	38 cis-1,3-Dichloropropene	75	11.928	11.928	1.161)	353279	20.0000	20
	39 Methyl Isobutyl Ketone	43	12 004	11.988	1.168)	555272	20.0000	17
	40 trans-1,3-Dichloropropene	75	12.520	12 504	1.219)	294601	20.0000	20
	41 1,1,2-Trichloroethane	83	12 702	12 702	0.841	383797	20.0000	17
	42 Toluene	92	13.036	13 020	0.863	676073	20.0000	21
	43 Methyl Butyl Ketone	43	13.339	13.324	(0 883)	641745	20.0000	18
	44 Dibromochloromethane	129	13.596	13 491	0 894)	1101038	20 0000	18
	45 1,2-Dibromoethane	107	13.795	13 779	0 914)	1800890	20.0000	18
	46 Tetrachloroethene	166	14.341	14.340	0.950)	856866	20.0000	21
*	47 Chlorobenzene-d5	117	15.100	15.099	1 000)	1004599	10.0000	
	48 Chlorobenzene	112	15.160	15.145	1 004)	1054116	20.0000	18
	49 Ethylbenzene	91	15 631	15.615	1.035)	1730773	20.0000	18
	50 Xylene (m,p	106	15.843	15.828	1.049)	1275501	40.0000	33(Q)
	51 Bromoform	173	15 934	15.919	1.055)	1150672	20 0000	18
	52 Styrene	104	16 314	16.298	(1.080)	756793	20 0000	16
	53 1,1,2,2-Tetrachloroethane	83	16 420	16 404	1.087)	872434	20 0000	12
	54 Xylene (o)	106	16 450	16 435	(1.089)	430956	20.0000	12
	55 2-Chlorotoluene	91	17 892	17.876	1 185)	1181761	20.0000	14
	56 4-Ethyltoluene	105	18 165	18 150	(1.203)	1464456	20.0000	14
	57 1,3,5-Trimethylbenzene	105	18.287	18 271	(1 211)	1468569	20.0000	14
	58 1,2,4-Trimethylbenzene	105	18 909	18 893	(1 252)	1772175	20.0000	17
	59 1,3-Dichlorobenzene	146	19 121	19.106	(1 266)	1137063	20.0000	15
	60 1,4-Dichlorobenzene	146	19 227	19 212	1 273)	1091148	20.0000	16
	61 1,2-Dichlorobenzene	146	19 774	19 758	(1 310)	1030260	20.0000	15

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	AMOUNTS ON-COL (ppbv)
62 1,2,4-Trichlorobenzene	180	22 460	22.444	(1.487)	715639	20.0000	17
63 Hexachlorobutadiene	225	23.249	23.233	(1.540)	984716	20.0000	14

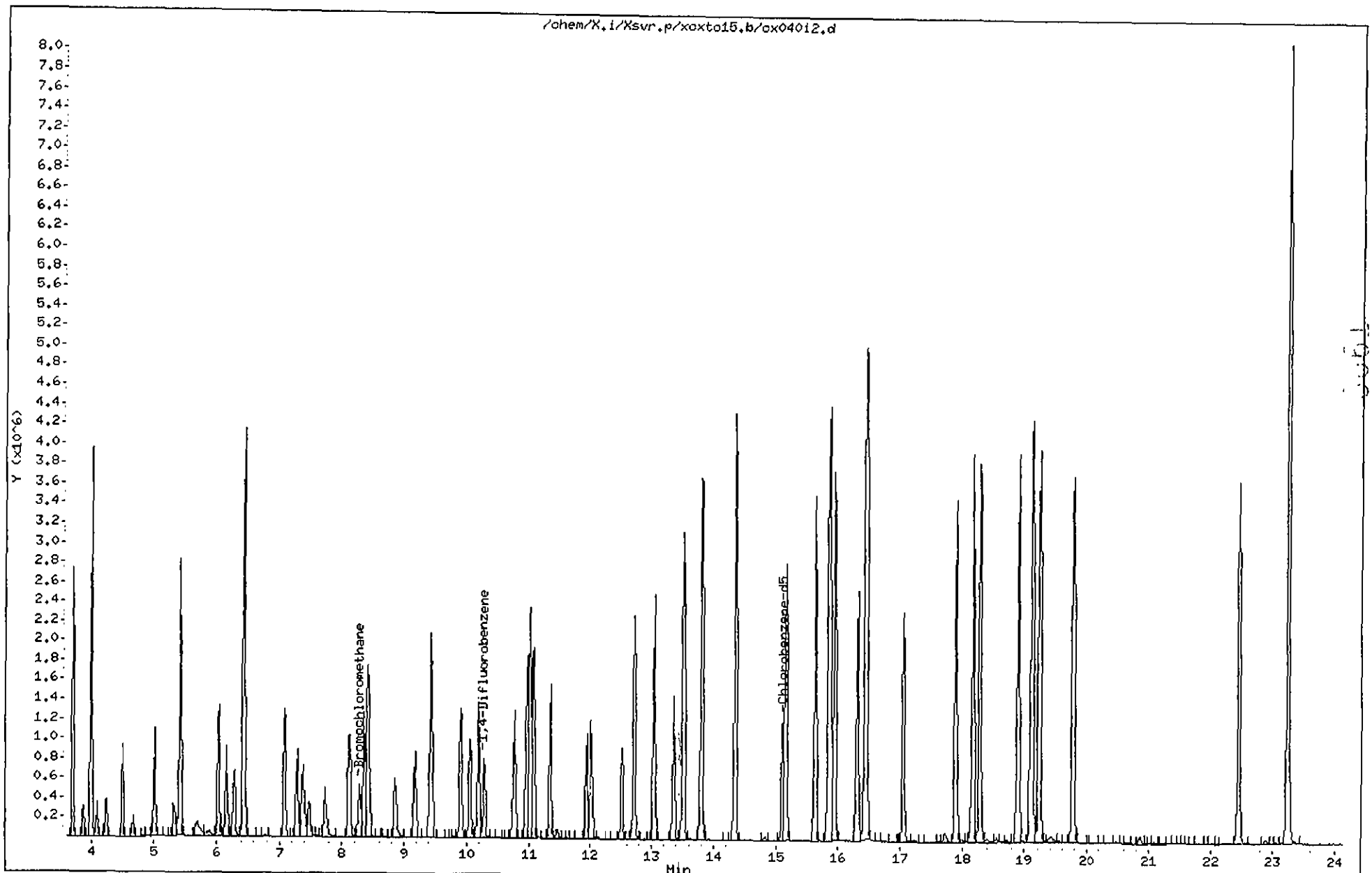
QC Flag Legend

Q - Qualifier signal failed the ratio test.

Data File: /chem/X.i/Xsvr.p/xcxto15.b/cx040i2.d
Date : 09-MAY-2001 13:53
Client ID: ASTD040
Sample Info: ASTD040;ASTD040
Purge Volume: 200.0
Column phase: DB-1

Instrument: X.i

Operator: GMH
Column diameter: 0.35



STL Burlington

AIR TOXICS QUANTITATION REPORT

Data file : /chem/X.i/Xsvr.p/xcxto15.b/cx040i2.d
Lab Smp Id: ASTD040 Client Smp ID: ASTD040
Inj Date : 09-MAY-2001 13:53
Operator : GMM Inst ID: X.i
Smp Info : ASTD040;ASTD040
Misc Info :
Comment :
Method : /chem/X.i/Xsvr.p/xcxto15.b/ato15.m
Meth Date : 15-May-2001 14:45 mim Quant Type: ISTD
Cal Date : 09-MAY-2001 13:53 Cal File: cx040i2.d
Als bottle: 6 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50
Processing Host: chemsvr4

Concentration Formula: Amt * DF * X* Uf/Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
X	200.00000	method volume factor
Uf	1.00000	ng unit correction factor
Vo	200.00000	Sample Volume purged (mL)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	AMOUNTS ON-COL (ppbv)
1 Dichlorodifluoromethane	85	3.683	3.682	(0.444)	2436941	40.0000	34
2 Chloromethane	50	3 856	3 840	(0 465)	361283	40.0000	34
3 Dichlorotetrafluoroethane	85	3.985	3.970	(0.481)	2035839	40.0000	34
4 Vinyl Chloride	62	4.072	4.071	(0.491)	399722	40.0000	35
5 1,3-Butadiene	54	4.230	4.215	(0.511)	251633	40.0000	34
6 Bromomethane	94	4.490	4.474	(0.542)	573111	40.0000	36
7 Chloroethane	64	4 677	4.647	(0.565)	214674	40.0000	34
8 Bromoethene	106	5.007	4.992	(0.604)	689349	40.0000	38
9 Acetone	43	5 311	5.311	(0.641)	808283	40.0000	36
10 Trichlorofluoromethane	101	5.417	5.402	(0.654)	2407698	40.0000	34
11 Isopropyl Alcohol	45	5 690	5.615	(0.687)	601169	40.0000	40(AMH)
12 1,1-Dichloroethene	96	6.039	6.024	(0 729)	572258	40.0000	36
13 Methylene Chloride	49	6.161	6.146	(0.744)	601452	40.0000	35
14 3-Chloropropene	41	6.282	6.267	(0.758)	402513	40.0000	44(A)

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	AMOUNTS ON-COL (ppbv)
	15 Carbon Disulfide	76	6.419	6.404	(0.775)	1574191	40.0000	37
	16 Freon TF	101	6.434	6.419	(0.777)	1523057	40.0000	35
	17 trans-1,2-Dichloroethene	61	7.071	7.056	(0.853)	950759	40.0000	38
	18 1,1-Dichloroethane	63	7.284	7.269	(0.879)	1044187	40.0000	35
	19 Methyl tert-Butyl Ether	73	7.375	7.360	(0.890)	1102038	40.0000	48(A)
	20 Methyl Ethyl Ketone	43	7.724	7.709	(0.932)	992072	40.0000	42(A)
	21 cis-1,2-Dichloroethene	61	8.103	8.088	(0.978)	804779	40.0000	38
*	22 Bromochloromethane	128	8.285	8.255	(1.000)	234037	10.0000	
	23 n-Hexane	57	8.346	8.331	(1.007)	622075	40.0000	38
	24 Chloroform	83	8.422	8.392	(1.016)	1649493	40.0000	35
	25 Tetrahydrofuran	42	8.847	8.832	(0.861)	454317	40.0000	35
	26 1,2-Dichloroethane	62	9.165	9.150	(0.892)	1045380	40.0000	28
	27 1,1,1-Trichloroethane	97	9.423	9.408	(0.917)	1857093	40.0000	30
	28 Benzene	78	9.894	9.879	(0.963)	1687547	40.0000	41(A)
	29 Carbon Tetrachloride	117	10.046	10.031	(0.978)	817099	40.0000	37
	30 Cyclohexane	56	10.182	10.167	(0.991)	694140	40.0000	44(A)
*	31 1,4-Difluorobenzene	114	10.273	10.258	(1.000)	936299	10.0000	
	32 1,2-Dichloropropane	63	10.759	10.744	(1.047)	542689	40.0000	40(A)
	33 Bromodichloromethane	83	10.956	10.941	(1.066)	1580866	40.0000	35
	34 Trichloroethene	95	11.002	10.987	(1.071)	915041	40.0000	39(Q)
	35 1,4-Dioxane	88	11.032	11.017	(1.074)	372457	40.0000	46(A)
	36 2,2,4-Trimethylpentane	57	11.078	11.063	(1.078)	2149706	40.0000	40(A)
	37 n-Heptane	43	11.351	11.336	(1.105)	659688	40.0000	38
	38 cis-1,3-Dichloropropene	75	11.943	11.928	(1.162)	793671	40.0000	53(A)
	39 Methyl Isobutyl Ketone	43	12.003	11.988	(1.168)	1040225	40.0000	37
	40 trans-1,3-Dichloropropene	75	12.519	12.504	(1.219)	725114	40.0000	58(A)
	41 1,1,2-Trichloroethane	83	12.716	12.702	(0.841)	733834	40.0000	32
	42 Toluene	92	13.035	13.020	(0.862)	1359324	40.0000	44(A)
	43 Methyl Butyl Ketone	43	13.354	13.324	(0.884)	1375707	40.0000	37
	44 Dibromochloromethane	129	13.506	13.491	(0.894)	2450055	40.0000	49(A)
	45 1,2-Dibromoethane	107	13.794	13.779	(0.913)	3557768	40.0000	34
	46 Tetrachloroethene	166	14.340	14.340	(0.949)	1773215	40.0000	45(A)
*	47 Chlorobenzene-d5	117	15.114	15.099	(1.000)	1007907	10.0000	
	48 Chlorobenzene	112	15.160	15.145	(1.003)	2164870	40.0000	37
	49 Ethylbenzene	91	15.630	15.615	(1.034)	3594410	40.0000	36
	50 Xylene (m,p	106	15.858	15.828	(1.049)	2610282	80.0000	64(Q)
	51 Bromoform	173	15.934	15.919	(1.054)	2679166	40.0000	39
	52 Styrene	104	16.313	16.298	(1.079)	1777752	40.0000	36
	53 1,1,2,2-Tetrachloroethane	83	16.434	16.404	(1.087)	2182010	40.0000	29
	54 Xylene (o)	106	16.450	16.435	(1.088)	1315858	40.0000	33(Q)
	55 2-Chlorotoluene	91	17.891	17.876	(1.184)	2987589	40.0000	32
	56 4-Ethyltoluene	105	18.164	18.150	(1.202)	3770193	40.0000	32
	57 1,3,5-Trimethylbenzene	105	18.271	18.271	(1.209)	3597257	40.0000	33
	58 1,2,4-Trimethylbenzene	105	18.893	18.893	(1.250)	3487321	40.0000	33
	59 1,3-Dichlorobenzene	146	19.120	19.106	(1.265)	2811046	40.0000	35
	60 1,4-Dichlorobenzene	146	19.227	19.212	(1.272)	2701482	40.0000	37
	61 1,2-Dichlorobenzene	146	19.773	19.758	(1.308)	2575246	40.0000	36

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	ON-COL (ppbv)
62 1,2,4-Trichlorobenzene	180	22.444	22.444	(1.485)	1724887	40.0000	40
63 Hexachlorobutadiene	225	23.233	23.233	(1.537)	2570188	40.0000	35

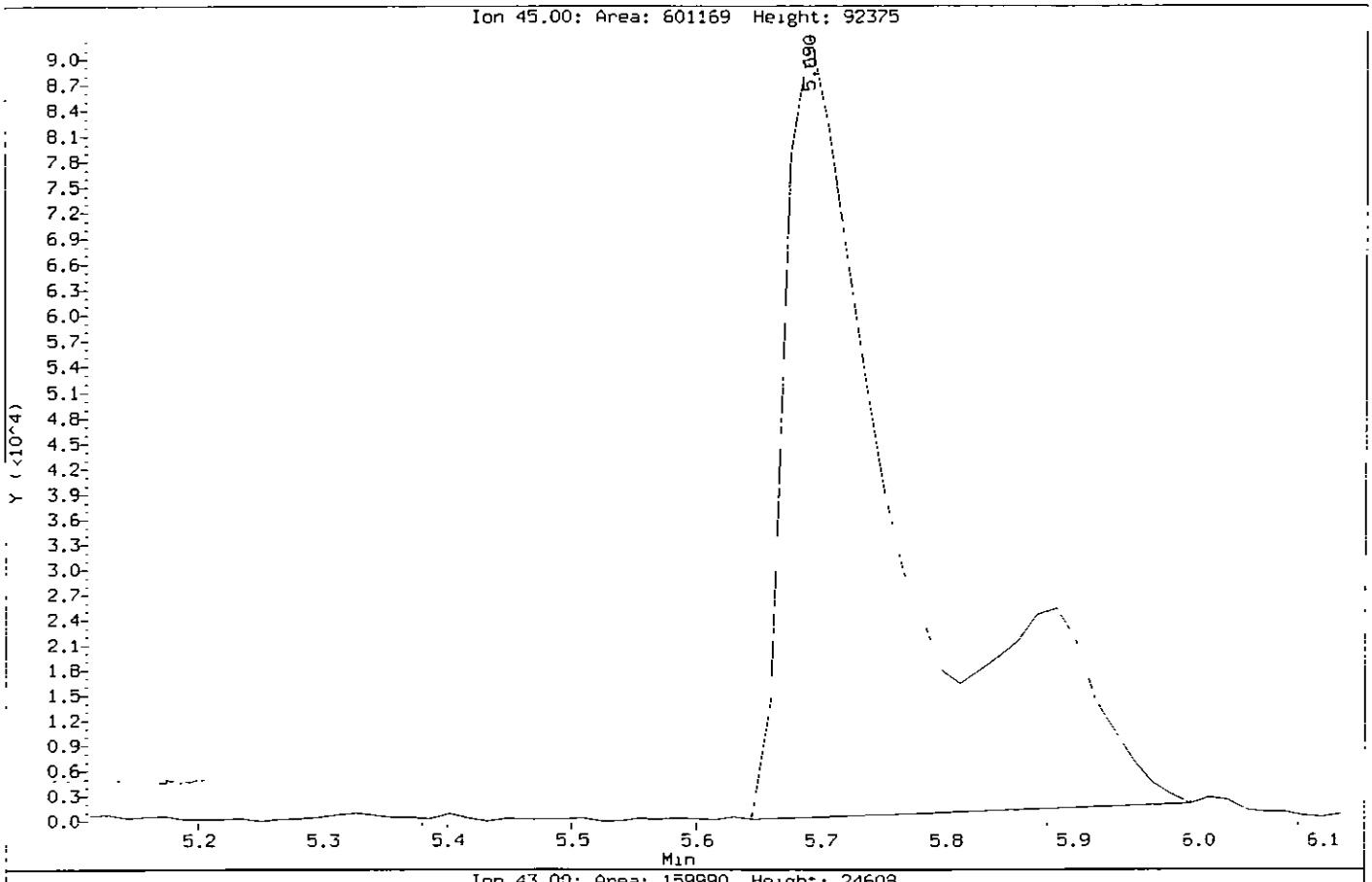
QC Flag Legend

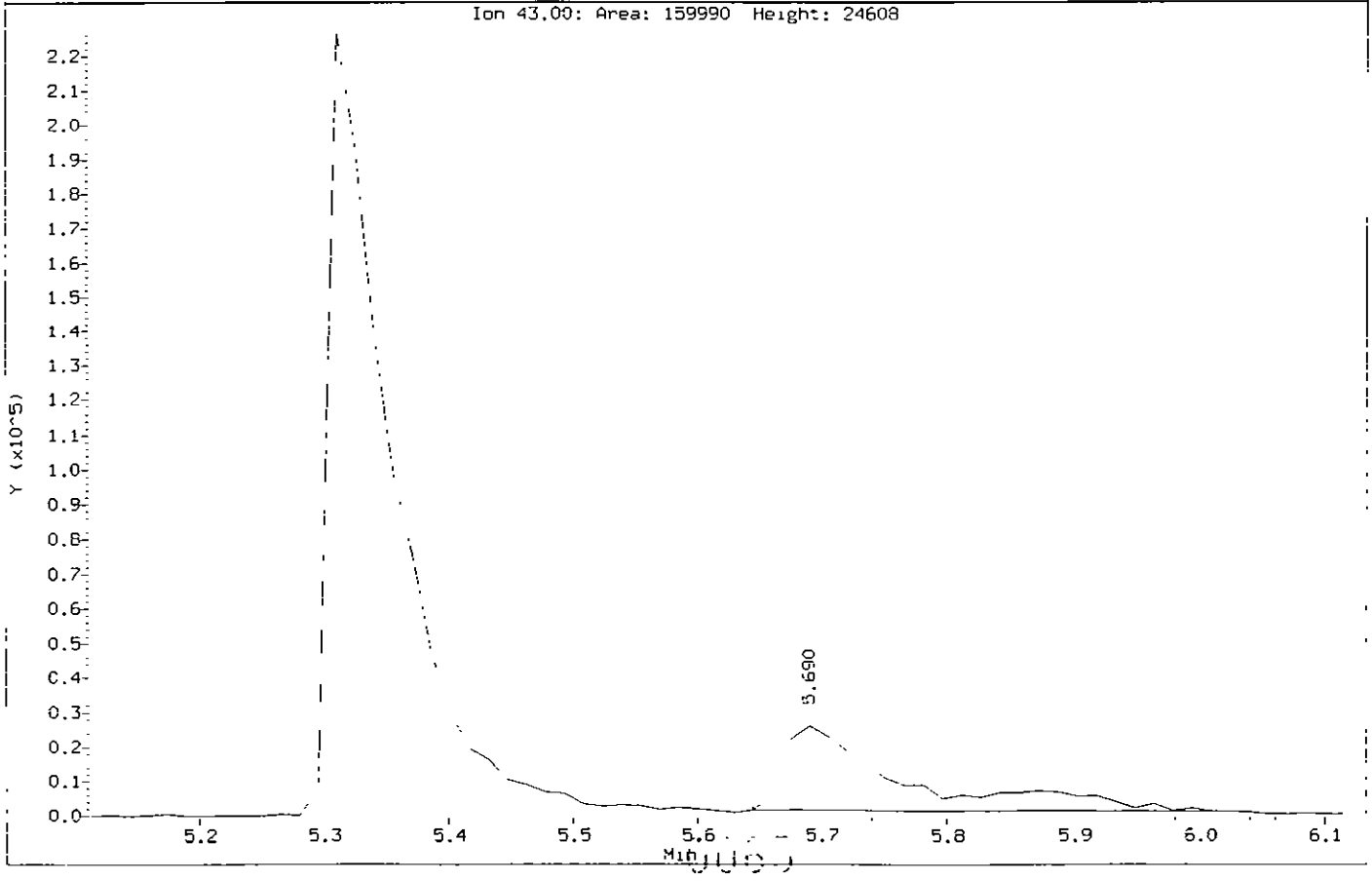
A - Target compound detected but, quantitated amount exceeded maximum amount.
Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

DMB 5/15/01
5/15/01

Data File: /chem/X.1/Xsvr.p/xcxto15.b/cx040i2.d
Injection Date: 09-MAY-2001 13:53
Instrument: X.1
Client Sample ID: ASTD040

Compound: Isopropyl Alcohol
CAS Number: 67-63-0





STL Burlington

INITIAL CALIBRATION DATA

Start Cal Date : 09-MAY-2001 11:29
End Cal Date : 09-MAY-2001 14:41
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/X.i/Xsvr.p/xcxto15.b/ato15.m
Cal Date : 15-May-2001 14:45 mim
Curve Type : Average

Calibration File Names:
Level 1: /chem/X.i/Xsvr.p/xcxto15.b/cx0005.d
Level 2: /chem/X.i/Xsvr.p/xcxto15.b/cx005.d
Level 3: /chem/X.i/Xsvr.p/xcxto15.b/cx010.d
Level 4: /chem/X.i/Xsvr.p/xcxto15.b/cx020i2.d
Level 5: /chem/X.i/Xsvr.p/xcxto15.b/cx040i2.d

	0.50000	5.000	10.000	20.000	40.000	___	
Compound	Level 1	Level 2	Level 3	Level 4	Level 5	RRF	% RSD
1 Dichlorodifluoromethane	3.28342	3 34828	3.02953	2.38565	2.60316	2.93001	14.409
2 Chloromethane	0.52674	0.44870	0.45583	0.35170	0.38593	0.43378	15.626
3 Dichlorotetrafluoroethane	2.77959	2.75082	2.65302	1.91013	2.17470	2.45365	15 883
4 Vinyl Chloride	0.48011	0.50853	0.50983	0.35536	0.42699	0.45617	14 379
5 1,3-Butadiene	0.33512	0.32787	0 31867	0 22605	0.26880	0 29530	15.784
6 Bromomethane	0.72272	0.69397	0.69399	0 43202	0.61220	0.63098	18.801
7 Chloroethane	0.28907	0.28893	0.26264	0.18769	0.22932	0.25153	17.215
8 Bromoethene	0.74949	0.84586	0.79044	0.59342	0.73637	0.74312	12.640
9 Acetone	1.18578	0.91497	0.84983	0.81705	0.86341	0.92621	16.123
10 Trichlorofluoromethane	3.36696	3.33020	2 84888	2.38347	2.57192	2.90029	15.227
11 Isopropyl Alcohol	0.63095	0.66736	0.60758	0.61067	0.64217	0.63175	3.882
12 1,1-Dichloroethene	0.76836	0.71022	0.66151	0.59311	0.61129	0.66890	10 759
13 Methylene Chloride	0.88081	0.77846	0.66765	0 64298	0.64248	0.72247	14.505
14 3-Chloropropene	0.38612	0.39417	0.36555	0.36575	0.42997	0.38831	6.815
15 Carbon Disulfide	1.83057	1.91715	1.78878	1.66990	1.68156	1.77759	5 848
16 Freon TF	2.19214	1.95376	1.73238	1.62248	1.62694	1 82554	13.423
17 trans-1,2-Dichloroethene	0.93946	1.03926	0.90173	0.86346	0.90879	0.93054	7.149
18 1,1-Dichloroethane	1.51744	1.26114	1 16421	1.08521	1 11541	1.22868	14 214
19 Methyl tert-Butyl Ether	0.96706	0.94794	0.86138	0.87261	1.17720	0.96524	13.166
20 Methyl Ethyl Ketone	0.95652	1.06259	0.95887	0.96894	1.05974	1.00133	5.476
21 cis-1,2-Dichloroethene	1.02959	0.92036	0.84548	0.79310	0.85967	0.88964	10 163
23 n-Hexane	0.80642	0.72263	0.63471	0.60254	0.66450	0 68616	11.727
24 Chloroform	2.32543	2.09539	1.85010	1.68106	1.76200	1.94280	13.605
25 Tetrahydrofuran	0.17155	0.14847	0.11342	0.10803	0.12131	0.13256	20.199
26 1,2-Dichloroethane	0.55033	0.48738	0.27851	0.25596	0.27913	0.37026	37.210 <
27 1,1,1-Trichloroethane	0.90602	0.74414	0 47318	0.45722	0.49586	0.61528	32.563 <-

STL Burlington

INITIAL CALIBRATION DATA

Start Cal Date : 09-MAY-2001 11:29
End Cal Date : 09-MAY-2001 14:41
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/X.i/Xsvr.p/xcxto15.b/ato15.m
Cal Date : 15-May-2001 14:45 mim
Curve Type : Average

Compound	0.50000 Level 1	5.000 Level 2	10.000 Level 3	20.000 Level 4	40 000 Level 5	RRF	% RSD
28 Benzene	0.42888	0 44034	0.45003	0.41601	0.45059	0.43717	3.377
29 Carbon Tetrachloride	0.22737	0.29601	0 20430	0.17461	0 21817	0.22409	20.030
30 Cyclohexane	0 13096	0.19312	0.16497	0.16436	0.18534	0.16775	14.376
32 1,2-Dichloropropane	0.12472	0.16995	0.13510	0.12456	0.14490	0.13985	13.457
33 Bromodichloromethane	0 51305	0.59277	0.41562	0.37515	0.42211	0.46374	18.977
34 Trichloroethene	0 24587	0.31330	0 20529	0.22199	0.24432	0.24616	16.707
35 1,4-Dioxane	0.07595	0.10749	0 06570	0.08439	0 09945	0.08660	19 639
36 2,2,4-Trimethylpentane	0.47509	0.75493	0.48843	0.53004	0 57399	0.56450	20 066
37 n-Heptane	0.17827	0 23274	0.14519	0.16256	0.17614	0.17898	18.341
39 cis-1,3-Dichloropropene	0 13424	0 17046	0.12662	0.15897	0 21192	0.16044	21.098
39 Methyl Isobutyl Ketone	0.26227	0 39545	0.27051	0.24987	0.27775	0.29117	20.334
40 trans-1,3-Dichloropropene	0.11738	0 12066	0 09712	0.13257	0 19361	0.13227	27 661
41 1,1,2-Trichloroethane	0 26195	0 23874	0.23506	0.19102	0 18202	0 22176	15 300
42 Toluene	0.22163	0.34049	0.34026	0.33649	0 33717	0.31521	16.606
43 Methyl Butyl Ketone	0 29266	0.42988	0.41654	0.31940	0 34123	0.35994	16.793
44 Dibromochloromethane	0 48075	0.64400	0 66960	0.54800	0.60771	0.59001	12 926
45 1,2-Dibromoethane	0.98079	1.14351	1.08057	0.89632	0.88246	0.99673	11 435
46 Tetrachloroethene	0.29373	0.42271	0 40702	0.42647	0.43983	0.39795	14 932
48 Chlorobenzene	0.62534	0.60377	0 57166	0.52465	0.53697	0.57248	7.474
49 Ethylbenzene	0.64352	1.43504	1.04447	0.86142	0 89155	0.97520	30.167
50 Xylene (m,p	0.47715	0 45451	0.35681	0 31742	0 32373	0.38592	19.406
51 Bromoform	0.73500	0 66910	0.62721	0 57270	0 66454	0.65371	9.123
52 Styrene	0.43353	0 53227	0.57882	0.37666	0 44095	0.47245	17.252
53 1,1,2,2-Tetrachloroethane	0.80125	0 81503	0.85990	0.43422	0 54122	0.69032	27.526
54 Xylene (o)	0.38644	0 42694	0.44696	0.21449	0.32638	0.36024	25.982
55 2-Chlorotoluene	0.76092	1.08039	1.11520	0.58818	0.74104	0.85715	26.828
56 4-Ethyltoluene	0.94844	1 36781	1.34065	0.72888	0.93515	1 06419	26.206
57 1,3,5-Trimethylbenzene	0 81231	1.36049	1.29330	0.73092	0.89226	1.01786	28.373
58 1,2,4-Trimethylbenzene	0 70031	1 35712	1.29539	0.88203	0.86499	1.01997	28.363
59 1,3-Dichlorobenzene	0.72267	0.89992	0.88113	0.56593	0.69725	0.75338	18.419
60 1,4-Dichlorobenzene	0 54684	0 84008	0.81463	0.54308	0.67007	0.68294	20.745
61 1,2-Dichlorobenzene	0.56725	0.81889	0.79580	0.51277	0.63876	0.66669	20.428
62 1,2,4-Trichlorobenzene	0.34389	0.43450	0.51497	0.35618	0.42784	0.41548	16 611

Rounds to 30% okay Per Sep Dm 5/15

STL Burlington

INITIAL CALIBRATION DATA

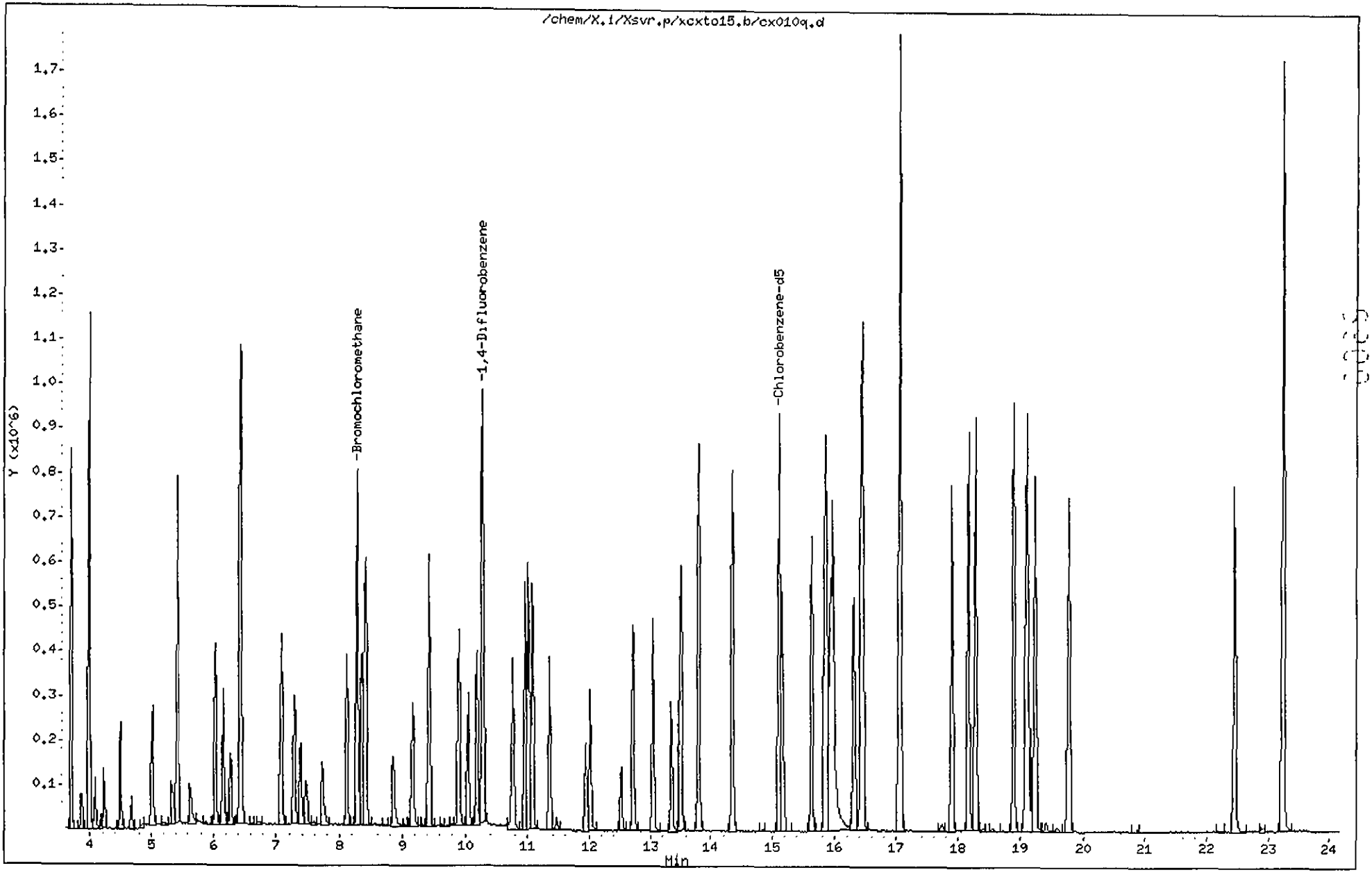
Start Cal Date : 09-MAY-2001 11:29
End Cal Date : 09-MAY-2001 14:41
Quant Method : ISTD
Origin : Disabled
Target Version : 3.50
Integrator : HP RTE
Method file : /chem/X.i/Xsvr.p/xcxto15.b/ato15.m
Cal Date : 15-May-2001 14:45 mim
Curve Type : Average

Compound	0.50000 Level 1	5.000 Level 2	10.000 Level 3	20.000 Level 4	40.000 Level 5	___ RRF	% RSD
63 Hexachlorobutadiene	0.71777	0.80524	0.78196	0.49010	0.63751	0.68652	18.592

Data File: /chem/X.i/Xsvr.p/xcxto15.b/cx010q.d
Date : 09-MAY-2001 15:16
Client ID: C5_ICVLCS
Sample Info: C5_ICV
Purge Volume: 200.0
Column phase: DB-1

Instrument: X.i

Operator: GMM
Column diameter: 0.35



STL Burlington

AIR TOXICS QUANTITATION REPORT

Data file : /chem/X.i/Xsvr.p/xcxto15.b/cx010q.d
Lab Smp Id: C5_ICVLCS Client Smp ID: C5_ICVLCS
Inj Date : 09-MAY-2001 15:16
Operator : GMM Inst ID: X.i
Smp Info : C5_ICV
Misc Info :
Comment :
Method : /chem/X.i/Xsvr.p/xcxto15.b/ato15.m
Meth Date : 15-May-2001 14:45 mim Quant Type: ISTD
Cal Date : 09-MAY-2001 14:41 Cal File: cx020i2.d
Als bottle: 4 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50
Processing Host: chemsvr4

Concentration Formula: Amt * DF * X* Uf/Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
X	200.00000	method volume factor
Uf	1.00000	ng unit correction factor
Vo	200.00000	Sample Volume purged (mL)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	FINAL (ppbv)
1 Dichlorodifluoromethane	85	3.684	3.682	(0.445)	765786	10.4030	10
2 Chloromethane	50	3.857	3 840	(0.466)	108140	9.92282	9.9
3 Dichlorotetrafluoroethane	85	3.987	3.970	(0.482)	631304	10.2410	10
4 Vinyl Chloride	62	4.074	4.071	(0.492)	123691	10.7928	11
5 1,3-Butadiene	54	4.218	4.215	(0.510)	70961	9.56472	9.6
6 Bromomethane	94	4.492	4.474	(0.543)	156354	9.86307	9.9
7 Chloroethane	64	4.665	4.647	(0.564)	57742	9.13734	9.1
8 Bromoethene	106	5.009	4.992	(0.606)	196176	10.5077	10
9 Acetone	43	5.313	5.311	(0.642)	220930	9.49433	9.5
10 Trichlorofluoromethane	101	5.419	5.402	(0.655)	724645	9.94494	9.9
11 Isopropyl Alcohol	45	5.616	5.615	(0.679)	161988	10.2061	10
12 1,1-Dichloroethene	96	6.026	6.024	(0.728)	163286	9.71645	9 7
13 Methylene Chloride	49	6.147	6.146	(0.743)	170761	9.40772	9.4
14 3-Chloropropene	41	6.269	6.267	(0.758)	93044	9.53733	9.5

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	FINAL (ppbv
	15 Carbon Disulfide	76	6.421	6.404	(0.776)	446332	9.99411	10
	16 Freon TF	101	6 436	6.419	(0.778)	431049	9.39839	9 4
	17 trans-1,2-Dichloroethene	61	7.073	7.056	(0.855)	234941	10.0494	10
	18 1,1-Dichloroethane	63	7.271	7.269	(0.879)	282408	9.14861	9.1
	19 Methyl tert-Butyl Ether	73	7.377	7.360	(0.892)	217507	8.96925	9 0
	20 Methyl Ethyl Ketone	43	7.711	7.709	(0.932)	243005	9.65953	9 6
	21 cis-1,2-Dichloroethene	61	8.105	8.088	(0.980)	212831	9.52223	9.5
*	22 Bromochloromethane	128	8.272	8.255	(1.000)	251236	10.0000	
	23 n-Hexane	57	8.348	8.331	(1.009)	167398	9.71051	9.7
	24 Chloroform	83	8.409	8.392	(1.016)	464884	9.52435	9.5
	25 Tetrahydrofuran	42	8.849	8.832	(0.861)	108079	8 01809	8.0
	26 1,2-Dichloroethane	62	9.152	9.150	(0.891)	268327	7.12658	7 1
	27 1,1,1-Trichloroethane	97	9.425	9.408	(0.917)	480486	7.67949	7.7
	28 Benzene	78	9.896	9.879	(0.963)	449076	10.1017	10
	29 Carbon Tetrachloride	117	10.048	10.031	(0.978)	212574	9.32847	9.3
	30 Cyclohexane	56	10.184	10.167	(0.991)	171059	10.0279	10
*	31 1,4-Difluorobenzene	114	10.275	10.258	(1.000)	1016889	10.0000	
	32 1,2-Dichloropropane	63	10.761	10.744	(1.047)	147582	10.3779	10
	33 Bromodichloromethane	83	10.958	10.941	(1.066)	424104	8.99338	9.0
	34 Trichloroethene	95	11.004	10.987	(1.071)	203346	8.12368	8.1
	35 1,4-Dioxane	88	11.034	11.017	(1.074)	68231	7.74833	7.7
	36 2,2,4-Trimethylpentane	57	11.064	11.063	(1.077)	504125	8.78221	8 8
	37 n-Heptane	43	11.353	11.336	(1.105)	155612	8.54998	8.5
	38 cis-1,3-Dichloropropene	75	11.945	11.928	(1.162)	128219	7.85900	7.8
	39 Methyl Isobutyl Ketone	43	12.005	11.988	(1.168)	265952	8 98222	9 0
	40 trans-1,3-Dichloropropene	75	12.521	12.504	(1.219)	98709	7 33872	7 3
	41 1,1,2-Trichloroethane	83	12.703	12.702	(0.841)	140800	10.4791	10
	42 Toluene	92	13.037	13.020	(0.863)	212616	11.1327	11
	43 Methyl Butyl Ketone	43	13 341	13 324	(0 883)	253593	11.6280	12
	44 Dibromochloromethane	129	13.508	13.491	(0.894)	396420	11.0891	11
	45 1,2-Dibromoethane	107	13 796	13.779	(0.914)	657346	10.8847	11
	46 Tetrachloroethene	166	14 342	14.340	(0.950)	247618	10.2696	10
*	47 Chlorobenzene-d5	117	15.101	15.099	(1.000)	605896	10 0000	
	48 Chlorobenzene	112	15 162	15.145	(1.004)	335313	9.66705	9.7
	49 Ethylbenzene	91	15 632	15.615	(1.035)	595127	10.0720	10
	50 Xylene m,p)	106	15 860	15.828	(1.050)	415916	17.7873	18
	51 Bromoform	173	15 936	15.919	(1.055)	352833	8 90810	8.9
	52 Styrene	104	16.315	16.298	(1.080)	330569	11.5481	12
	53 1,1,2,2-Tetrachloroethane	83	16 421	16.404	(1.087)	507656	12.1372	12
	54 Xylene (o	106	16.452	16.435	(1.089)	277651	12.7206	13
	55 2-Chlorotoluene	91	17.893	17.876	(1.185)	627967	12 0916	12
	56 4-Ethyltoluene	105	18.166	18.150	(1.203)	793178	12.3014	12
	57 1,3,5-Trimethylbenzene	105	18.273	18.271	(1.210)	792456	12.8496	13
	58 1,2,4-Trimethylbenzene	105	18.895	18 893	(1.251)	781497	12.6457	13
	59 1,3-Dichlorobenzene	146	19.123	19.106	(1.266)	513487	11.2491	11
	60 1,4-Dichlorobenzene	146	19.229	19 212	(1.273)	486524	11.7577	12
	61 1,2-Dichlorobenzene	146	19 775	19 758	(1 310)	462981	11.4614	11

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)
62 1,2,4-Trichlorobenzene	180	22.446	22.444	(1.486)	329526	13.0902	13(R)
63 Hexachlorobutadiene	225	23.235	23.233	(1.539)	488844	11.7522	12

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

STL Burlington

RECOVERY REPORT

Client Name:
Sample Matrix: GAS
Lab Smp Id: C5_ICVLCS
Level: LOW
Data Type: MS DATA
SpikeList File: all.spk
Sublist File: all.sub
Method File: /chem/X.i/Xsvr.p/xcxto15.b/ato15.m
Misc Info:

Client SDG:
Fraction: VOA
Client Smp ID: C5_ICVLCS
Operator: GMM
SampleType: LCS
Quant Type: ISTD

SPIKE COMPOUND	CONC ADDED ppbv	CONC RECOVERED ppbv	% RECOVERED	LIMITS
1 Dichlorodifluorome	10	10	104.03	70-130
2 Chloromethane	10	9.9	99.23	70-130
3 Dichlorotetrafluor	10	10	102.41	70-130
4 Vinyl Chloride	10	11	107.93	70-130
5 1,3-Butadiene	10	9.6	95.65	70-130
6 Bromomethane	10	9.9	98.63	70-130
7 Chloroethane	10	9.1	91.37	70-130
8 Bromoethene	10	10	105.08	70-130
9 Acetone	10	9.5	94.94	70-130
10 Trichlorofluoromet	10	9.9	99.45	70-130
11 Isopropyl Alcohol	10	10	102.06	70-130
12 1,1-Dichloroethene	10	9.7	97.16	70-130
13 Methylene Chloride	10	9.4	94.08	70-130
14 3-Chloropropene	10	9.5	95.37	70-130
15 Carbon Disulfide	10	10	99.94	70-130
16 Freon TF	10	9.4	93.98	70-130
17 trans-1,2-Dichloro	10	10	100.49	70-130
18 1,1-Dichloroethane	10	9.1	91.49	70-130
19 Methyl tert-Butyl	10	9.0	89.69	70-130
20 Methyl Ethyl Keton	10	9.6	96.60	70-130
21 cis-1,2-Dichloroet	10	9.5	95.22	70-130
23 n-Hexane	10	9.7	97.11	70-130
24 Chloroform	10	9.5	95.24	70-130
25 Tetrahydrofuran	10	8.0	80.18	70-130
26 1,2-Dichloroethane	10	7.1	71.27	70-130
27 1,1,1-Trichloroeth	10	7.7	76.79	70-130
28 Benzene	10	10	101.02	70-130
29 Carbon Tetrachlori	10	9.3	93.28	70-130
30 Cyclohexane	10	10	100.28	70-130
32 1,2-Dichloropropan	10	10	103.78	70-130
33 Bromodichlorometha	10	9.0	89.93	70-130
34 Trichloroethene	10	8.1	81.24	70-130
35 1,4-Dioxane	10	7.7	77.48	70-130

SPIKE COMPOUND	CONC ADDED ppbv	CONC RECOVERED ppbv	% RECOVERED	LIMITS
36 2,2,4-Trimethylpen	10	8.8	87.82	70-130
37 n-Heptane	10	8.5	85.50	70-130
38 cis-1,3-Dichloropr	10	7.8	78.59	70-130
40 trans-1,3-Dichloro	10	7.3	73.39	70-130
39 Methyl Isobutyl Ke	10	9.0	89.82	70-130
41 1,1,2-Trichloroeth	10	10	104.79	70-130
42 Toluene	10	11	111.33	70-130
43 Methyl Butyl Keton	10	12	116.28	70-130
44 Dibromochlorometha	10	11	110.89	70-130
45 1,2-Dibromoethane	10	11	108.85	70-130
46 Tetrachloroethene	10	10	102.70	70-130
48 Chlorobenzene	10	9.7	96.67	70-130
49 Ethylbenzene	10	10	100.72	70-130
50 Xylene (m,p)	20	18	88.94	70-130
51 Bromoform	10	8.9	89.08	70-130
52 Styrene	10	12	115.48	70-130
53 1,1,2,2-Tetrachlor	10	12	121.37	70-130
54 Xylene (o)	10	13	127.21	70-130
55 2-Chlorotoluene	10	12	120.92	70-130
56 4-Ethyltoluene	10	12	123.01	70-130
57 1,3,5-Trimethylben	10	13	128.50	70-130
58 1,2,4-Trimethylben	10	13	126.46	70-130
59 1,3-Dichlorobenzen	10	11	112.49	70-130
60 1,4-Dichlorobenzen	10	12	117.58	70-130
61 1,2-Dichlorobenzen	10	11	114.61	70-130
62 1,2,4-Trichloroben	10	13	130.90*	70-130
63 Hexachlorobutadien	10	12	117.52	70-130

FORM 7
VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 83075

Instrument ID: X Calibration Date: 05/29/01 Time: 1435

Lab File ID: CX010J Init. Calib. Date(s): 05/09/01 05/09/01

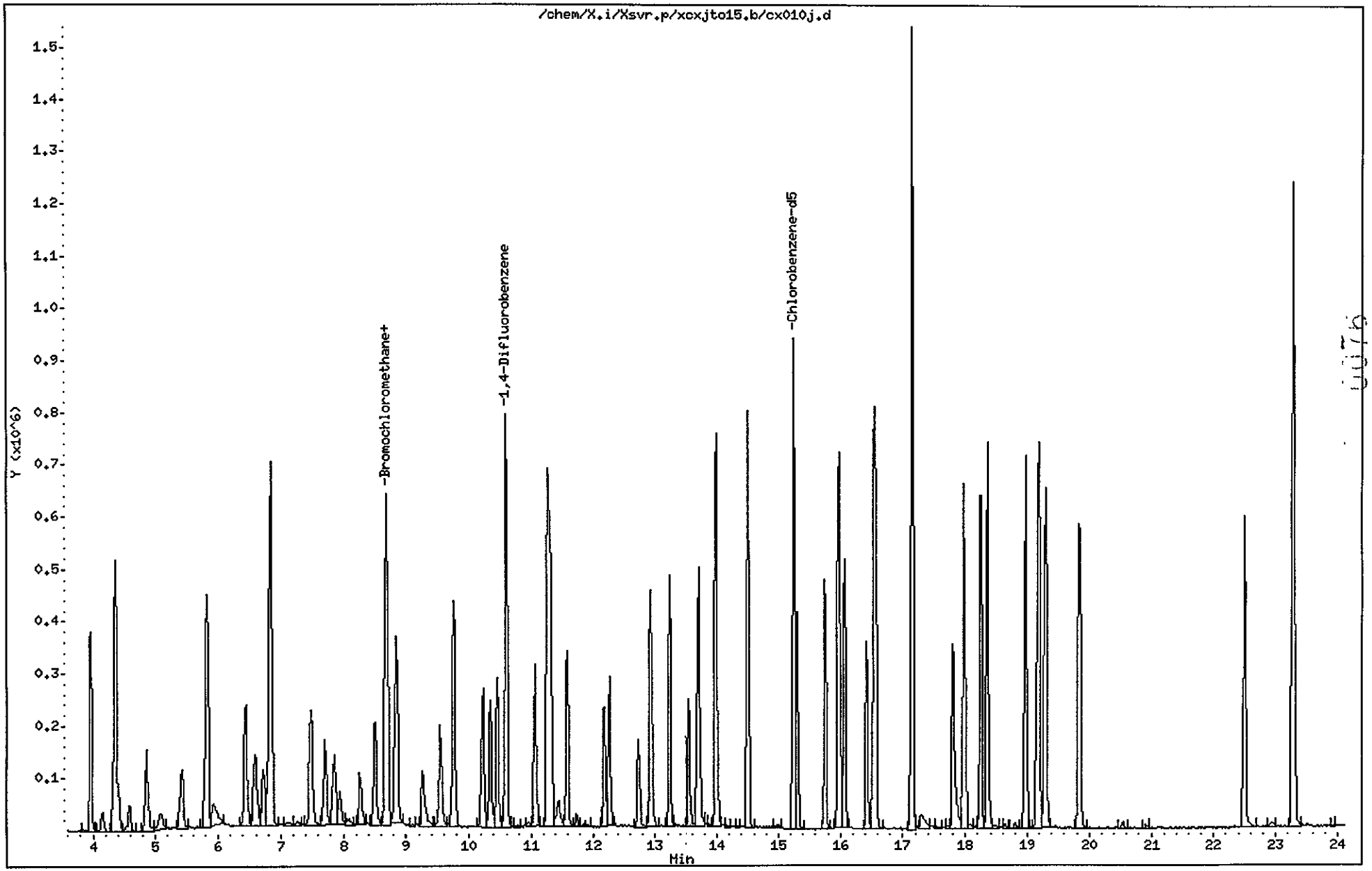
Heated Purge: (Y/N) N Init. Calib. Times: 1129 1441

GC Column: DB-1 ID: 0.35 (mm)

COMPOUND	$\overline{RRF}$	RRF10	MIN RRF	%D	MAX %D	
Chloromethane	0.434	0.259	0.01	40.3	30.0	<-
Vinyl Chloride	0.456	0.359	0.01	21.3	30.0	
Bromomethane	0.631	0.646	0.01	2.4	30.0	
Chloroethane	0.252	0.188	0.01	25.4	30.0	
Trichlorofluoromethane	2.900	2.685	0.01	7.4	30.0	
Methylene Chloride	0.722	0.596	0.01	17.4	30.0	
1,1-Dichloroethane	1.228	1.024	0.1	16.6	30.0	
cis-1,2-Dichloroethene	0.890	0.795	0.01	10.7	30.0	
Chloroform	1.943	1.785	0.01	8.1	30.0	
1,1,1-Trichloroethane	0.615	0.536	0.01	12.8	30.0	
Carbon Tetrachloride	0.224	0.259	0.01	15.6	30.0	
Benzene	0.437	0.391	0.01	10.5	30.0	
1,2-Dichloroethane	0.370	0.319	0.01	13.8	30.0	
Trichloroethene	0.246	0.261	0.01	6.1	30.0	
1,2-Dichloropropane	0.140	0.130	0.01	7.1	30.0	
cis-1,3-Dichloropropene	0.160	0.199	0.01	24.4	30.0	
Toluene	0.315	0.429	0.01	36.2	30.0	<-
trans-1,3-Dichloropropene	0.132	0.148	0.01	12.1	30.0	
1,1,2-Trichloroethane	0.222	0.259	0.01	16.7	30.0	
Tetrachloroethene	0.398	0.515	0.01	29.4	30.0	
Chlorobenzene	0.573	0.456	0.3	20.4	30.0	
Ethylbenzene	0.975	0.829	0.01	15.0	30.0	
Xylene (m,p)	0.386	0.277	0.01	28.2	30.0	
Styrene	0.473	0.335	0.01	29.2	30.0	
Xylene (o)	0.360	0.284	0.01	21.1	30.0	
1,1,2,2-Tetrachloroethane	0.690	0.565	0.01	18.1	30.0	
1,3-Dichlorobenzene	0.753	0.672	0.01	10.8	30.0	
1,4-Dichlorobenzene	0.683	0.666	0.01	2.5	30.0	
1,2-Dichlorobenzene	0.667	0.600	0.01	10.0	30.0	

Data File: /chem/X.i/Xsvr.p/xcxjto15.b/cx010j.d
Date : 29-MAY-2001 14:35
Client ID: CCV
Sample Info: CCV
Purge Volume: 200.0
Column phase: DB-1

Instrument: X.i
Operator: GMM
Column diameter: 0.35



STL Burlington

AIR TOXICS QUANTITATION REPORT

Data file : /chem/X.i/Xsvr.p/xcxjto15.b/cx010j.d
Lab Smp Id: CCV Client Smp ID: CCV
Inj Date : 29-MAY-2001 14:35
Operator : GMM Inst ID: X.i
Smp Info : CCV
Misc Info :
Comment :
Method : /chem/X.i/Xsvr.p/xcxjto15.b/ato15.m
Meth Date : 04-Jun-2001 15:35 dmg Quant Type: ISTD
Cal Date : 09-MAY-2001 14:41 Cal File: cx020i2.d
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ACCANA2.sub
Target Version: 3.50
Processing Host: chemsvr4

Concentration Formula: Amt * DF * X* Uf/Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
X	200.00000	method volume factor
Uf	1.00000	ng unit correction factor
Vo	200.00000	Sample Volume purged (mL)

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	AMOUNTS ON-COL (ppbv)
2	Chloromethane	50	3.970	3.840	(0.457)	58059	10.0000	6.0
4	Vinyl Chloride	62	4.417	4.071	(0.509)	80603	10.0000	7.9
6	Bromomethane	94	4.856	4.474	(0.559)	144950	10.0000	10
7	Chloroethane	64	5.083	4.647	(0.586)	42329	10.0000	7.5
10	Trichlorofluoromethane	101	5.827	5.402	(0.671)	602730	10.0000	9.2
13	Methylene Chloride	49	6.586	6.146	(0.759)	133910	10.0000	8.2
18	1,1-Dichloroethane	63	7.709	7.269	(0.888)	229955	10.0000	8.3
21	cis-1,2-Dichloroethene	61	8.513	8.088	(0.981)	178456	10.0000	8.9
* 22	Bromochloromethane	128	8.680	8.255	(1.000)	224501	10.0000	
24	Chloroform	83	8.832	8.392	(1.017)	400816	10.0000	9.2
26	1,2-Dichloroethane	62	9.545	9.150	(0.901)	260669	10.0000	8.6
27	1,1,1-Trichloroethane	97	9.757	9.408	(0.921)	437324	10.0000	8.7
28	Benzene	78	10.228	9.879	(0.966)	318954	10.0000	8.9
29	Carbon Tetrachloride	117	10.349	10.031	(0.977)	211052	10.0000	12

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppbv)	AMOUNTS ON-COL (ppbv)
*	31 1,4-Difluorobenzene	114	10.592	10.258	(1.000)	815946	10.0000	
	32 1,2-Dichloropropane	63	11.063	10.744	(1.044)	106319	10.0000	9.3
	34 Trichloroethene	95	11.290	10.987	(1.066)	213247	10.0000	11
	38 cis-1,3-Dichloropropene	75	12.185	11.928	(1.150)	162082	10.0000	12
	40 trans-1,3-Dichloropropene	75	12.732	12.504	(1.202)	120911	10.0000	11
	41 1,1,2-Trichloroethane	83	12.929	12.702	(0.848)	141584	10.0000	12
	42 Toluene	92	13.233	13.020	(0.868)	234777	10.0000	14
	46 Tetrachloroethene	166	14.507	14.340	(0.951)	281947	10.0000	13
*	47 Chlorobenzene-d5	117	15.251	15.099	(1.000)	547056	10.0000	
	48 Chlorobenzene	112	15.296	15.145	(1.003)	249385	10.0000	8.0
	49 Ethylbenzene	91	15.752	15.615	(1.033)	453744	10.0000	8.5
	50 Xylene (m,p)	106	15.979	15.828	(1.048)	302846	20.0000	14(Q)
	52 Styrene	104	16.419	16.298	(1.077)	183526	10.0000	7.1
	53 1,1,2,2-Tetrachloroethane	83	16.541	16.404	(1.085)	309273	10.0000	8.2
	54 Xylene (o)	106	16.571	16.435	(1.087)	155229	10.0000	7.9
	59 1,3-Dichlorobenzene	146	19.197	19.106	(1.259)	367647	10.0000	8.9(H)
	60 1,4-Dichlorobenzene	146	19.303	19.212	(1.266)	364506	10.0000	9.8
	61 1,2-Dichlorobenzene	146	19.849	19.758	(1.302)	328537	10.0000	9.0

QC Flag Legend

Q - Qualifier signal failed the ratio test.
H - Operator selected an alternate compound hit.

STL Burlington

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: X.i
Lab File ID: cx010j.d
Analysis Type: AIR
Lab Sample ID: CCV
Method: /chem/X.i/Xsvr.p/xcxjto15.b/ato15.m

Injection Date: 29-MAY-2001 14:35
Init. Cal. Date(s): 09-MAY-2001 09-MAY-2001
Init. Cal. Times: 11:29 14:41
Quant Type: ISTD

			MIN		MAX	
COMPOUND	RRF / AMOUNT	RF10	RRF	%D / %DRIFT	%D / %DRIFT	CURVE TYPE
2 Chlorometnane	0.43378	0.25861	0.010	40.38140	30.00000	Averaged <-
4 Vinyl Chloride	0.45617	0.35903	0.010	21.29348	30.00000	Averaged
6 Bromomethane	0.63098	0.64565	0.010	-2.32571	30.00000	Averaged
7 Chloroethane	0.25153	0.18855	0.010	25.04004	30.00000	Averaged
10 Trichlorofluoromethane	2.90029	2.68475	0.010	7.43146	30.00000	Averaged
13 Methylene Chloride	0.72247	0.59648	0.010	17.43947	30.00000	Averaged
18 1,1-Dichloroethane	1.22868	1.02429	0.100	16.63483	30.00000	Averaged
21 cis-1,2-Dichloroethene	0.88964	0.79490	0.010	10.64914	30.00000	Averaged
24 Chloroform	1.94280	1.78536	0.010	8.10338	30.00000	Averaged
26 1,2-Dichloroethane	0.37026	0.31947	0.010	13.71837	30.00000	Averaged
27 1,1,1-Trichloroethane	0.61528	0.53597	0.010	12.89020	30.00000	Averaged
28 Benzene	0.43717	0.39090	0.010	10.58435	30.00000	Averaged
29 Carbon Tetrachloride	0.22409	0.25866	0.010	-15.42550	30.00000	Averaged
32 1,2-Dichloropropane	0.13985	0.13030	0.010	6.82543	30.00000	Averaged
34 Trichloroethene	0.24616	0.26135	0.010	-6.17257	30.00000	Averaged
38 cis-1,3-Dichloropropene	0.16044	0.19864	0.010	-23.81173	30.00000	Averaged
40 trans-1,3-Dichloropropene	0.13227	0.14819	0.010	-12.03192	30.00000	Averaged
41 1,1,2-Trichloroethane	0 22176	0.25881	0.010	-16.70825	30.00000	Averaged
42 Toluene	0.31521	0.42916	0.010	-36.15326	30.00000	Averaged <-
46 Tetrachloroethene	0.39795	0.51539	0.010	-29.51070	30.00000	Averaged
48 Chlorobenzene	0.57248	0.45587	0.300	20.36939	30.00000	Averaged
49 Ethylbenzene	0.97520	0.82943	0.010	14.94796	30.00000	Averaged
50 Xylene (m,p)	0.38592	0.27680	0.010	28.27643	30.00000	Averaged
52 Styrene	0.47245	0.33548	0.010	28.99122	30.00000	Averaged
53 1,1,2,2-Tetrachloroethane	0.69032	0.56534	0.010	18.10490	30.00000	Averaged
54 Xylene (o)	0.36024	0.28375	0.010	21.23235	30.00000	Averaged
59 1,3-Dichlorobenzene	0.75338	0.67205	0.010	10.79572	30.00000	Averaged
60 1,4-Dichlorobenzene	0.68294	0.66630	0.010	2.43587	30.00000	Averaged
61 1,2-Dichlorobenzene	0.66669	0.60055	0.010	9.92062	30.00000	Averaged

SEVERN TRENT SERVICES

Severn Trent Laboratories, Inc.

METHOD TO-14A
VOLATILE ORGANIC ANALYSIS

RAW QC DATA

Data File: /chem/X.i/Xsvr.p/xcxto15.b/cx001p.d

Date : 09-MAY-2001 09:47

Client ID: XBFB001

Instrument: X.i

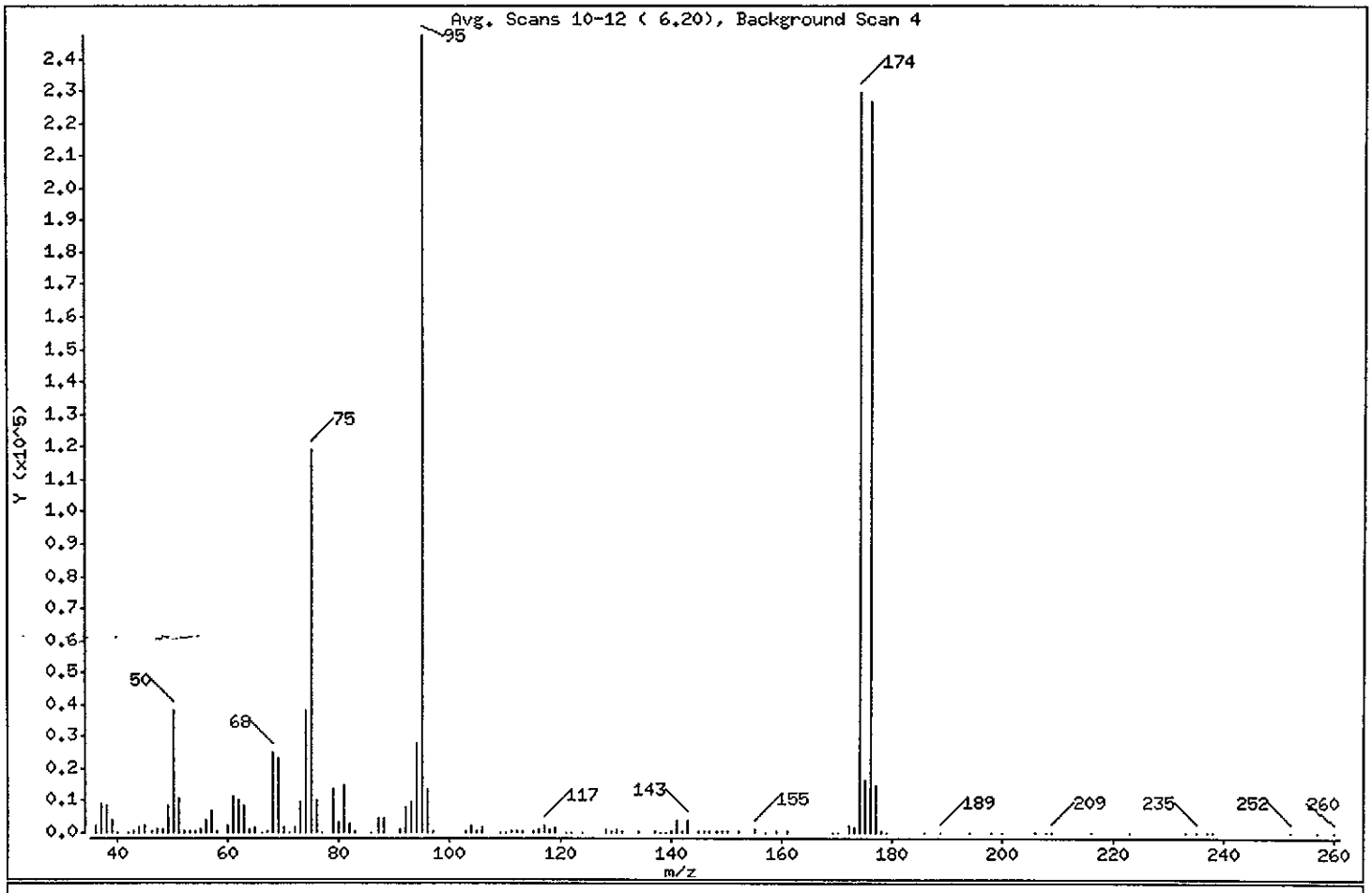
Sample Info: XBFB001

Operator: GMM

Column phase: DB-1

Column diameter: 0.32

$ 1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	8.00 - 40.00% of mass 95	15.39
75	30.00 - 66.00% of mass 95	48.14
96	5.00 - 9.00% of mass 95	5.56
173	Less than 2.00% of mass 174	0.70 (0.76)
174	50.00 - 120.00% of mass 95	92.84
175	4.00 - 9.00% of mass 174	6.66 (7.17)
176	93.00 - 101.00% of mass 174	91.62 (98.68)
177	5.00 - 9.00% of mass 176	5.92 (6.47)

Data File: /chem/X.i/Xsvr.p/xcxto15.b/cx001p.d

Date : 09-MAY-2001 09:47

Client ID: XBFB001 Instrument: X.i

Sample Info: XBFB001

Operator: GMM

Column phase: DB-1 Column diameter: 0.32

Data File: cx001p.d

Spectrum: Avg. Scans 10-12 (6.20), Background Scan 4

Location of Maximum: 95.00

Number of points: 133

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	2038	72.00	1475	118.00	1074	157.00	272
37.00	9375	73.00	9838	119.00	1575	159.00	440
38.00	8517	74.00	38336	121.00	67	161.00	461
39.00	3813	75.00	118992	122.00	121	169.00	66
40.00	262	76.00	10030	123.00	153	170.00	135
42.00	111	77.00	271	124.00	172	172.00	2264
43.00	605	79.00	13505	126.00	262	173.00	1738
44.00	1876	80.00	3594	127.00	52	174.00	229504
45.00	2235	81.00	14885	128.00	1308	175.00	16464
46.00	436	82.00	3086	129.00	687	176.00	226432
47.00	1267	83.00	352	130.00	964	177.00	14644
48.00	923	86.00	143	131.00	577	178.00	570
49.00	8337	87.00	4354	132.00	81	179.00	51
50.00	38032	88.00	4284	134.00	536	186.00	68
51.00	11026	91.00	941	135.00	227	187.00	61
52.00	642	92.00	7705	136.00	267	189.00	87
53.00	306	93.00	9807	137.00	376	194.00	69
54.00	316	94.00	27776	138.00	114	198.00	55
55.00	1145	95.00	247168	139.00	108	200.00	53
56.00	4267	96.00	13750	140.00	298	206.00	54
57.00	6696	97.00	603	141.00	3887	208.00	36
58.00	574	98.00	65	142.00	310	209.00	124
60.00	2019	103.00	402	143.00	4143	216.00	65
61.00	11173	104.00	2112	144.00	259	223.00	57
62.00	10388	105.00	597	145.00	621	233.00	62
63.00	8315	106.00	1925	146.00	534	235.00	216
64.00	1147	109.00	208	147.00	331	237.00	84
65.00	1706	110.00	276	148.00	690	238.00	58
66.00	269	111.00	433	149.00	371	252.00	107
67.00	603	112.00	554	150.00	297	257.00	60
68.00	25256	113.00	350	152.00	290	260.00	110
69.00	23336	115.00	526	153.00	84		
70.00	1944	116.00	1268	154.00	272		
71.00	225	117.00	2457	155.00	864		

Data File: /chem/X.i/Xsvr.p/xcxto15.b/cx001p.d

Date : 09-MAY-2001 09:47

Client ID: XBFB001

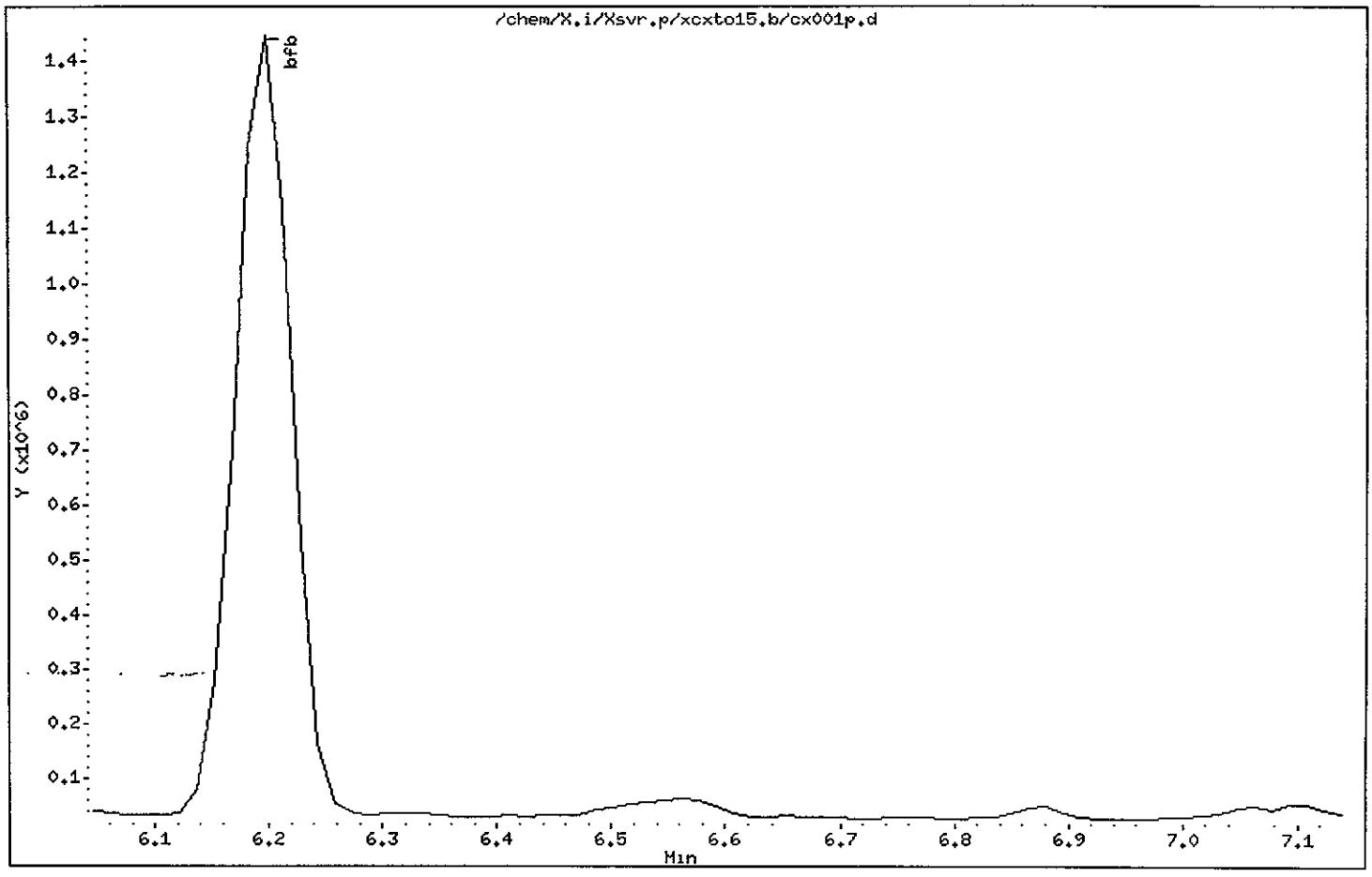
Instrument: X.i

Sample Info: XBFB001

Operator: GMH

Column phase: DB-1

Column diameter: 0.32



Data File: /chem/X.i/Xsvr.p/xcxjto15.b/cx011p.d

Date : 29-MAY-2001 13:06

Client ID: XBFB011

Instrument: X.i

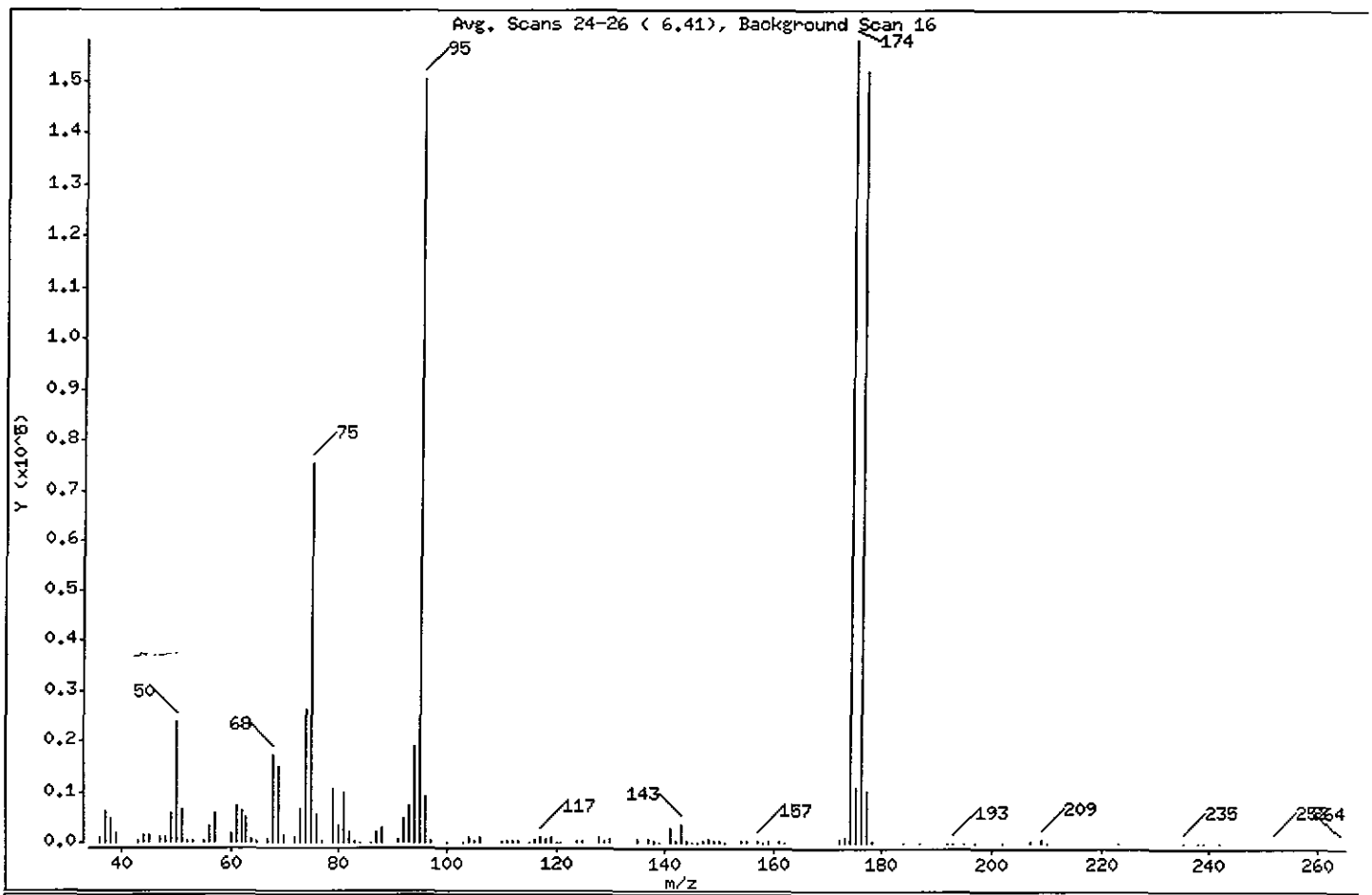
Sample Info: XBFB011

Operator: GMM

Column phase: DB-1

Column diameter: 0.32

$ 1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	8.00 - 40.00% of mass 95	15.81
75	30.00 - 66.00% of mass 95	50.21
96	5.00 - 9.00% of mass 95	6.07
173	Less than 2.00% of mass 174	0.79 (0.75)
174	50.00 - 120.00% of mass 95	105.10
175	4.00 - 9.00% of mass 174	7.16 (6.81)
176	93.00 - 101.00% of mass 174	100.96 (96.07)
177	5.00 - 9.00% of mass 176	6.71 (6.65)

Data File: /chem/X.i/Xsvr.p/xcxjto15.b/cx011p.d

Date : 29-MAY-2001 13:06

Client ID: XBFB011 Instrument: X.i

Sample Info: XBFB011

Operator: GMM

Column phase: DB-1 Column diameter: 0.32

Data File: cx011p.d
Spectrum: Avg. Scans 24-26 (6.41), Background Scan 16
Location of Maximum: 174.00
Number of points: 143

m/z	Y	m/z	Y	m/z	Y	m/z	Y
35.00	78	75.00	75408	123.00	50	169.00	52
36.00	1122	76.00	5282	124.00	218	172.00	823
37.00	6120	77.00	486	125.00	183	173.00	1181
38.00	4694	79.00	10597	127.00	161	174.00	157824
39.00	1939	80.00	3173	128.00	1110	175.00	10757
42.00	164	81.00	9934	129.00	387	176.00	151616
43.00	513	82.00	2360	130.00	852	177.00	10079
44.00	1307	83.00	395	131.00	181	178.00	275
45.00	1455	84.00	84	132.00	115	181.00	96
46.00	74	86.00	51	135.00	603	182.00	77
47.00	947	87.00	2297	136.00	88	184.00	77
48.00	1100	88.00	2789	137.00	594	185.00	98
49.00	5642	91.00	720	138.00	189	187.00	54
50.00	23744	92.00	4900	139.00	165	192.00	69
51.00	6428	93.00	7280	141.00	2997	193.00	160
52.00	377	94.00	18912	142.00	473	195.00	50
53.00	183	95.00	150144	143.00	3544	197.00	72
54.00	110	96.00	9120	144.00	265	202.00	83
55.00	402	97.00	207	145.00	179	207.00	313
56.00	3306	100.00	160	146.00	179	209.00	683
57.00	5652	103.00	180	147.00	315	210.00	155
58.00	89	104.00	1133	148.00	618	220.00	64
59.00	15	105.00	442	149.00	235	223.00	92
60.00	1808	106.00	1129	150.00	247	227.00	52
61.00	7267	110.00	383	151.00	105	231.00	73
62.00	6089	111.00	418	152.00	62	235.00	86
63.00	5152	112.00	438	153.00	58	238.00	52
64.00	659	113.00	338	154.00	253	239.00	54
65.00	485	115.00	157	155.00	352	242.00	58
67.00	733	116.00	800	157.00	418	248.00	55
68.00	16984	117.00	1131	158.00	149	250.00	55
69.00	15075	118.00	843	159.00	388	251.00	65
70.00	1374	119.00	1002	161.00	405	252.00	90
72.00	1171	120.00	100	162.00	148	253.00	79
73.00	6405	121.00	69	163.00	71	264.00	77

Date : 29-MAY-2001 13:06

Client ID: XBFB011 Instrument: X.i

Sample Info: XBFB011

Operator: GMH

Column phase: DB-1 Column diameter: 0.32

Data File: cx011p.d

Spectrum: Avg. Scans 24-26 (6.41), Background Scan 16

Location of Maximum: 174.00

Number of points: 143

m/z	Y	m/z	Y	m/z	Y	m/z	Y
74.00	26048	122.00	119	165.00	61		

Data File: /chem/X.i/Xsvr.p/xcxjto15.b/cx011p.d

Date : 29-MAY-2001 13:06

Client ID: XBFB011

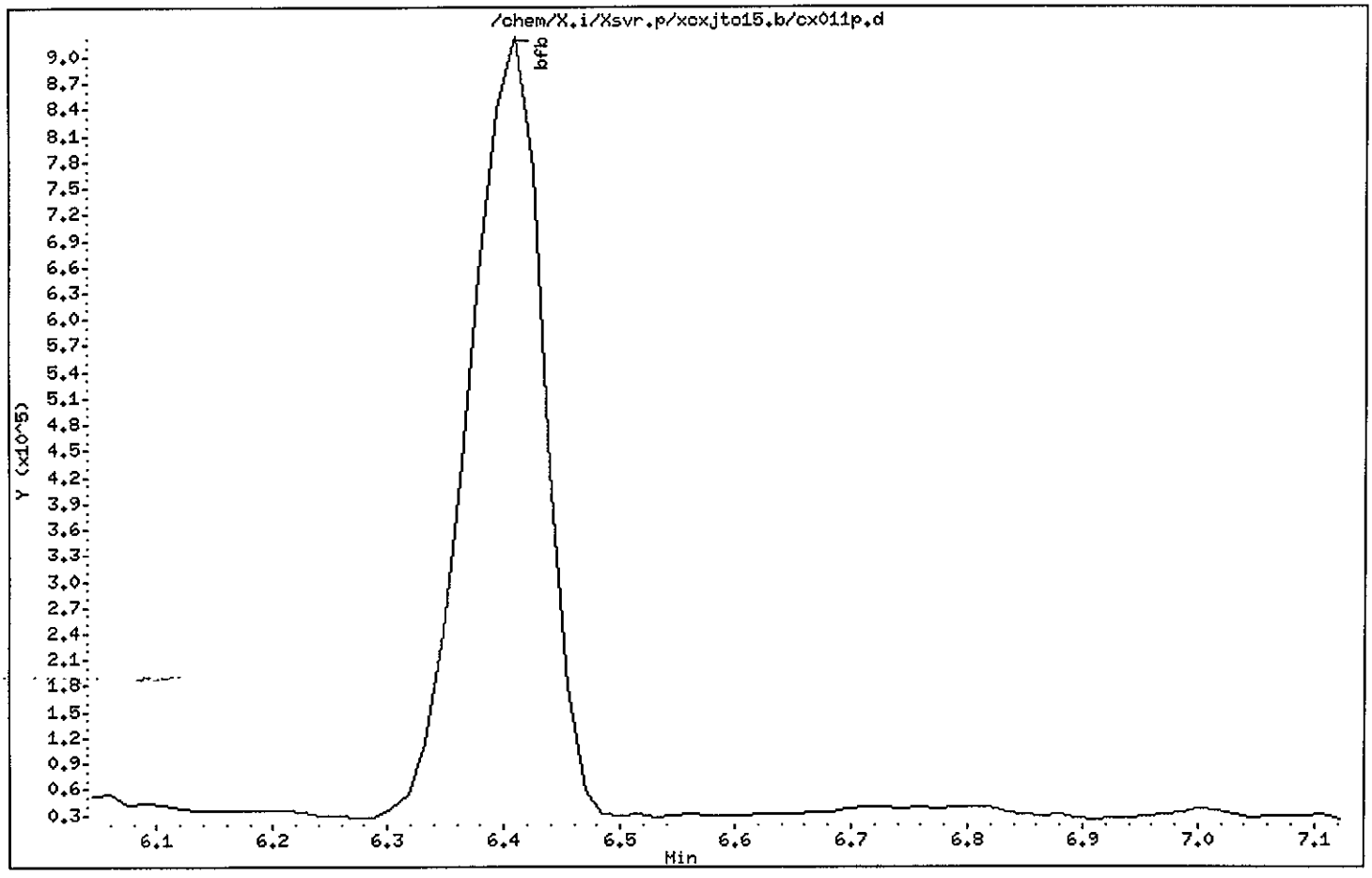
Instrument: X.i

Sample Info: XBFB011

Operator: GMH

Column phase: DB-1

Column diameter: 0.32



FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

ABLKE7

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 83075

Matrix: (soil/water) AIR Lab Sample ID: ABLKE7

Sample wt/vol: 200(g/mL) ML Lab File ID: CXB001J

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

% Moisture: not dec. _____ Date Analyzed: 05/29/01

GC Column: DB-1 ID: 0.35 (mm) Dilution Factor: 1.0

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

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) PPBV	Q
74-87-3	Chloromethane	0.50	U
75-01-4	Vinyl Chloride	0.50	U
74-83-9	Bromomethane	0.50	U
75-00-3	Chloroethane	0.50	U
75-69-4	Trichlorofluoromethane	0.50	U
75-09-2	Methylene Chloride	0.50	U
75-34-3	1,1-Dichloroethane	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.50	U
67-66-3	Chloroform	0.50	U
71-55-6	1,1,1-Trichloroethane	0.50	U
56-23-5	Carbon Tetrachloride	0.50	U
71-43-2	Benzene	0.50	U
107-06-2	1,2-Dichloroethane	0.50	U
79-01-6	Trichloroethene	0.50	U
78-87-5	1,2-Dichloropropane	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.50	U
108-88-3	Toluene	0.50	U
10061-02-6	trans-1,3-Dichloropropene	0.50	U
79-00-5	1,1,2-Trichloroethane	0.50	U
127-18-4	Tetrachloroethene	0.50	U
108-90-7	Chlorobenzene	0.50	U
100-41-4	Ethylbenzene	0.50	U
1330-20-7	Xylene (m,p)	0.50	U
100-42-5	Styrene	0.50	U
95-47-6	Xylene (o)	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1	1,3-Dichlorobenzene	0.50	U
106-46-7	1,4-Dichlorobenzene	0.50	U
95-50-1	1,2-Dichlorobenzene	0.50	U

0050

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT SAMPLE NO.

ABLKE7

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 83075

Matrix: (soil/water) AIR Lab Sample ID: ABLKE7

Sample wt/vol: 200(g/mL) ML Lab File ID: CXB001J

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

% Moisture: not dec. _____ Date Analyzed: 05/29/01

GC Column: DB-1 ID: 0.35 (mm) Dilution Factor: 1.0

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

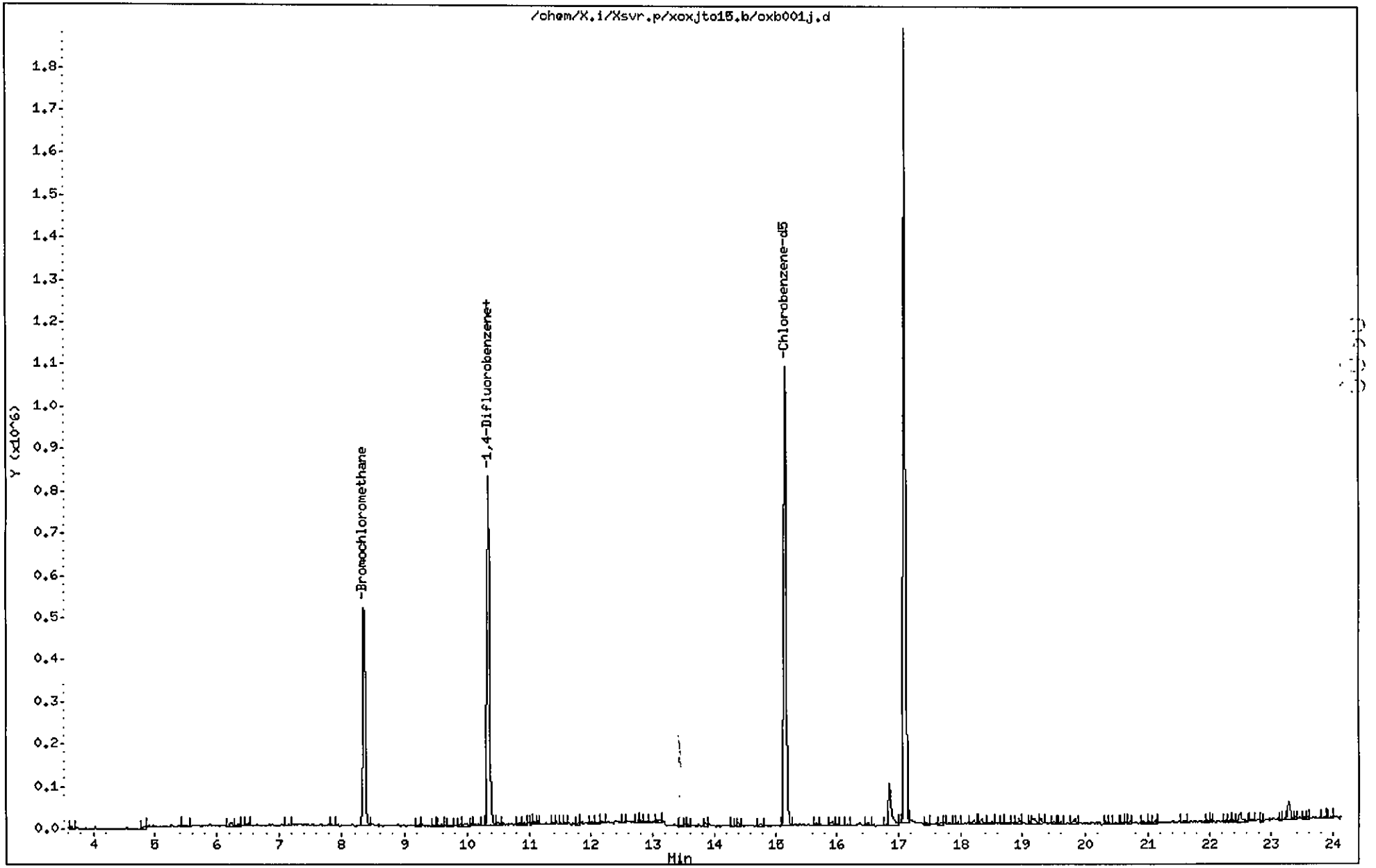
Number TICs found: 1

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

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	127-19-5	ACETAMIDE, N,N-DIMETHYL-	16.84	1.2	NJ
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.					

Data File: /chem/X.i/Xsvr.p/xcxjto15.b/cxb001j.d
Date : 29-MAY-2001 17:05
Client ID: ABLKE7
Sample Info: ABLKE7;ABLKE7;;0529E7
Purge Volume: 200.0
Column phase: DB-1

Instrument: X.i
Operator: GMM
Column diameter: 0.35



STL Burlington

AIR TOXICS QUANTITATION REPORT

Data file : /chem/X.i/Xsvr.p/xcxjto15.b/cxb001j.d
Lab Smp Id: ABLKE7 Client Smp ID: ABLKE7
Inj Date : 29-MAY-2001 17:05
Operator : GMM Inst ID: X.i
Smp Info : ABLKE7;ABLKE7;;0529E7
Misc Info :
Comment :
Method : /chem/X.i/Xsvr.p/xcxjto15.b/ato15.m
Meth Date : 04-Jun-2001 15:35 dmg Quant Type: ISTD
Cal Date : 09-MAY-2001 14:41 Cal File: cx020i2.d
Als bottle: 3 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ACCANA2.sub
Target Version: 3.50
Processing Host: chemsvr4

Concentration Formula: Amt * DF * X* Uf/Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
X	200.00000	method volume factor
Uf	1.00000	ng unit correction factor
Vo	200.00000	Sample Volume purged (mL)

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)
2	Chloromethane	50	Compound Not Detected.					
4	Vinyl Chloride	62	Compound Not Detected.					
6	Bromomethane	94	Compound Not Detected.					
7	Chloroethane	64	Compound Not Detected.					
10	Trichlorofluoromethane	101	Compound Not Detected.					
13	Methylene Chloride	49	Compound Not Detected.					
18	1,1-Dichloroethane	63	Compound Not Detected.					
21	cis-1,2-Dichloroethene	61	Compound Not Detected.					
* 22	Bromochloromethane	128	8.362	8.255	(1.000)	193236	10.0000	
24	Chloroform	83	Compound Not Detected.					
26	1,2-Dichloroethane	62	Compound Not Detected.					
27	1,1,1-Trichloroethane	97	Compound Not Detected.					
28	Benzene	78	Compound Not Detected.					
29	Carbon Tetrachloride	117	Compound Not Detected.					

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)
* 31 1,4-Difluorobenzene	114	10.350	10.258	(1.000)	847556	10.0000	
32 1,2-Dichloropropane	63	Compound Not Detected.					
34 Trichloroethene	95	Compound Not Detected.					
38 cis-1,3-Dichloropropene	75	Compound Not Detected.					
40 trans-1,3-Dichloropropene	75	Compound Not Detected.					
41 1,1,2-Trichloroethane	83	Compound Not Detected.					
42 Toluene	92	Compound Not Detected.					
46 Tetrachloroethene	166	Compound Not Detected.					
* 47 Chlorobenzene-d5	117	15.161	15.099	(1.000)	790401	10.0000	
48 Chlorobenzene	112	Compound Not Detected.					
49 Ethylbenzene	91	Compound Not Detected.					
50 Xylene (m,p)	106	Compound Not Detected.					
52 Styrene	104	Compound Not Detected.					
53 1,1,2,2-Tetrachloroethane	83	Compound Not Detected.					
54 Xylene (o)	106	Compound Not Detected.					
59 1,3-Dichlorobenzene	146	Compound Not Detected.					
60 1,4-Dichlorobenzene	146	Compound Not Detected.					
61 1,2-Dichlorobenzene	146	Compound Not Detected.					

Data File: /chem/X.i/Xsvr.p/xcxjto15.b/cxb001j.d

Date : 29-MAY-2001 17:05

Client ID: ABLKE7

Instrument: X.i

Sample Info: ABLKE7;ABLKE7;;0529E7

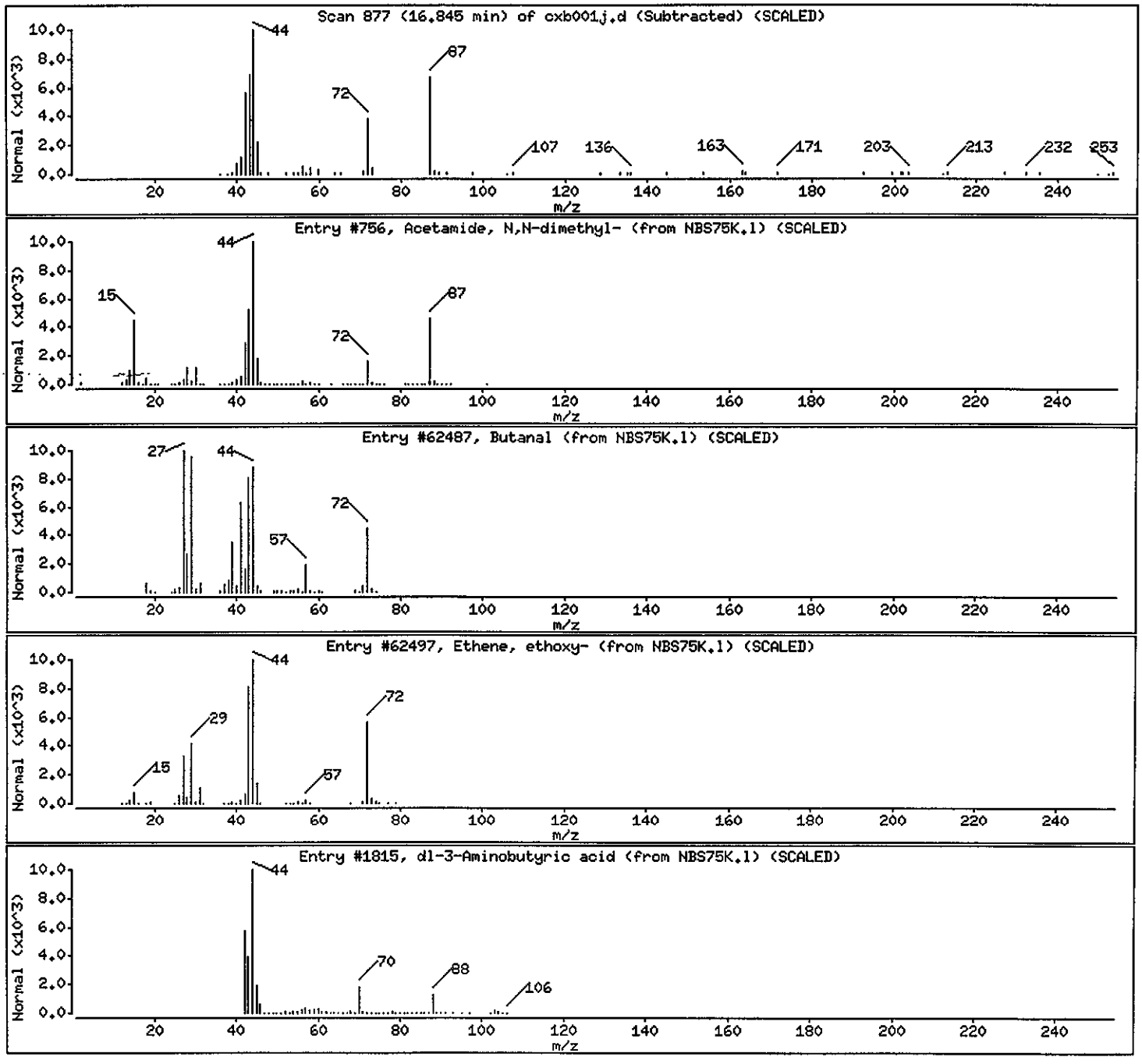
Purge Volume: 200.0

Operator: GMM

Column phase: DB-1

Column diameter: 0.35

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Acetamide, N,N-dimethyl-	127-19-5	NBS75K.l	756	53	C4H9NO	87
Butanal	123-72-8	NBS75K.l	62487	49	C4H8O	72
Ethene, ethoxy-	109-92-2	NBS75K.l	62497	47	C4H8O	72
dl-3-Aminobutyric acid	2835-82-7	NBS75K.l	1815	28	C4H9NO2	103



FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

E7_LCS

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 83075

Matrix: (soil/water) AIR Lab Sample ID: E7_LCS

Sample wt/vol: 200(g/mL) ML Lab File ID: CX010JQ

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

% Moisture: not dec. _____ Date Analyzed: 05/29/01

GC Column: DB-1 ID: 0.35 (mm) Dilution Factor: 1.0

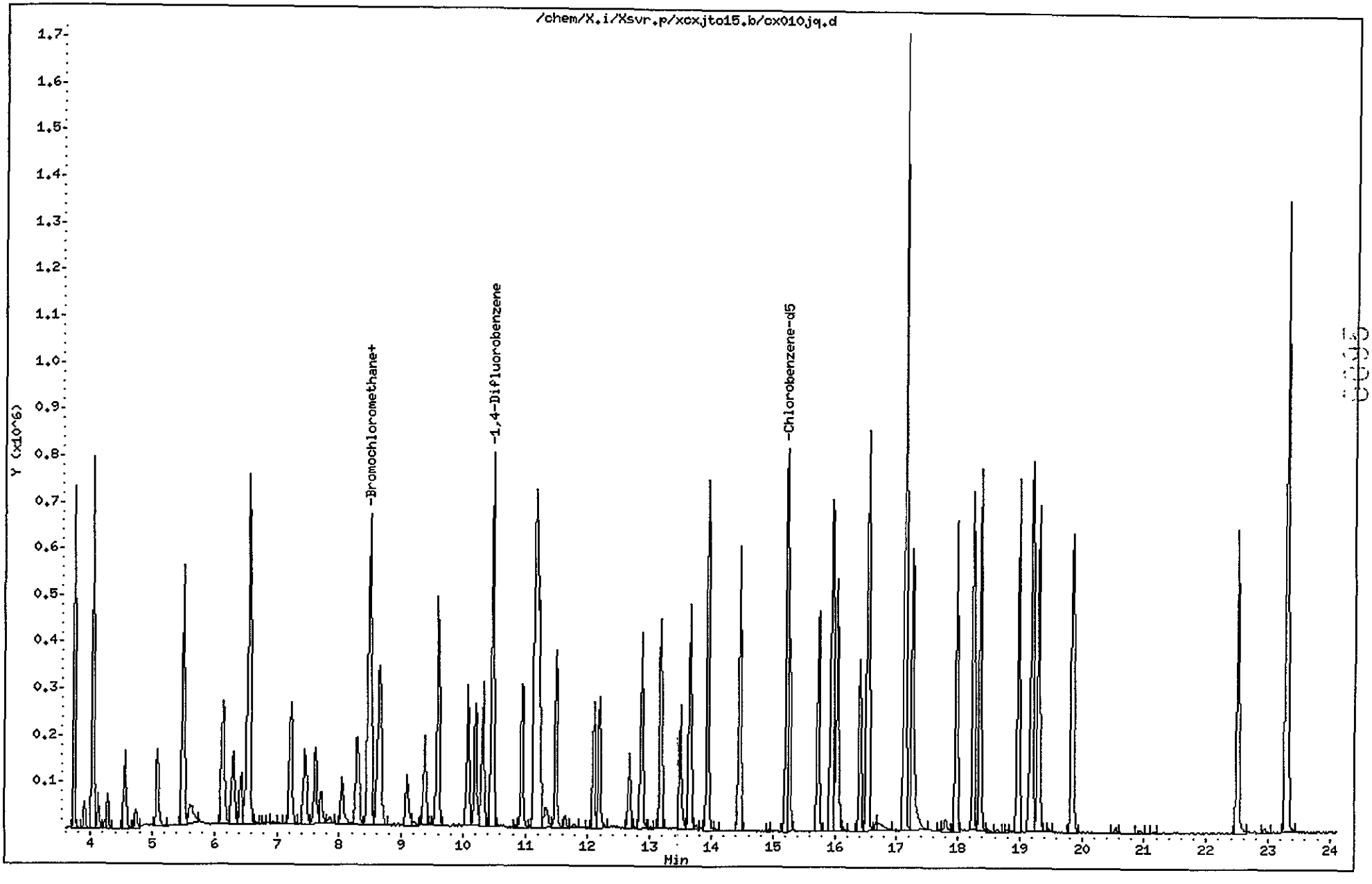
Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) PPBV	Q
74-87-3	Chloromethane	6.5	
75-01-4	Vinyl Chloride	7.3	
74-83-9	Bromomethane	8.8	
75-00-3	Chloroethane	8.5	
75-69-4	Trichlorofluoromethane	9.2	
75-09-2	Methylene Chloride	8.1	
75-34-3	1,1-Dichloroethane	8.1	
156-59-2	cis-1,2-Dichloroethene	8.7	
67-66-3	Chloroform	8.8	
71-55-6	1,1,1-Trichloroethane	9.6	
56-23-5	Carbon Tetrachloride	13	
71-43-2	Benzene	9.6	
107-06-2	1,2-Dichloroethane	8.9	
79-01-6	Trichloroethene	11	
78-87-5	1,2-Dichloropropane	10	
10061-01-5	cis-1,3-Dichloropropene	13	
108-88-3	Toluene	14	
10061-02-6	trans-1,3-Dichloropropene	12	
79-00-5	1,1,2-Trichloroethane	12	
127-18-4	Tetrachloroethene	8.4	
108-90-7	Chlorobenzene	8.3	
100-41-4	Ethylbenzene	9.4	
1330-20-7	Xylene (m,p)	16	
100-42-5	Styrene	7.6	
95-47-6	Xylene (o)	9.2	
79-34-5	1,1,2,2-Tetrachloroethane	9.5	
541-73-1	1,3-Dichlorobenzene	11	
106-46-7	1,4-Dichlorobenzene	11	
95-50-1	1,2-Dichlorobenzene	11	

Data File: /chem/X.i/Xsvr.p/xcxjto15.b/cx010jq.d
Date : 29-MAY-2001 15:25
Client ID: E7_LCS
Sample Info: E7_LCS;E7_LCS
Purge Volume: 200.0
Column phase: DB-1

Instrument: X.i

Operator: GMM
Column diameter: 0.35



STL Burlington

AIR TOXICS QUANTITATION REPORT

Data file : /chem/X.i/Xsvr.p/xcxjto15.b/cx010jq.d
Lab Smp Id: E7_LCS Client Smp ID: E7_LCS
Inj Date : 29-MAY-2001 15:25
Operator : GMM Inst ID: X.i
Smp Info : E7_LCS;E7_LCS
Misc Info :
Comment :
Method : /chem/X.i/Xsvr.p/xcxjto15.b/ato15.m
Meth Date : 04-Jun-2001 15:35 dmg Quant Type: ISTD
Cal Date : 09-MAY-2001 14:41 Cal File: cx020i2.d
Als bottle: 1 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ACCANA2.sub
Target Version: 3.50
Processing Host: chemsvr4

Concentration Formula: Amt * DF * X* Uf/Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
X	200.00000	method volume factor
Uf	1.00000	ng unit correction factor
Vo	200.00000	Sample Volume purged (mL)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	FINAL (ppbv)
2 Chloromethane	50	3.903	3.840	(0.460)	68773	6.49138	6.5(R)
4 Vinyl Chloride	62	4.133	4.071	(0.487)	81558	7.32037	7.3
6 Bromomethane	94	4.551	4.474	(0.536)	135308	8.78005	8.8
7 Chloroethane	64	4.739	4.647	(0.559)	52396	8.52896	8.5
10 Trichlorofluoromethane	101	5.494	5.402	(0.648)	655674	9.25626	9.2
13 Methylene Chloride	49	6.298	6.146	(0.742)	142977	8.10275	8.1
18 1,1-Dichloroethane	63	7.451	7.269	(0.878)	243253	8.10600	8.1
21 cis-1,2-Dichloroethene	61	8.286	8.088	(0.977)	188832	8.69060	8.7
* 22 Bromochloromethane	128	8.483	8.255	(1.000)	244237	10.0000	
24 Chloroform	83	8.635	8.392	(1.018)	419090	8.83219	8.8
26 1,2-Dichloroethane	62	9.379	9.150	(0.896)	273904	8.86562	8.9
27 1,1,1-Trichloroethane	97	9.591	9.408	(0.916)	491292	9.56941	9.6
28 Benzene	78	10.077	9.879	(0.962)	351423	9.63380	9.6
29 Carbon Tetrachloride	117	10.198	10.031	(0.974)	239780	12.8235	13

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	FINAL (ppbv)
* 31 1,4-Difluorobenzene	114	10.471	10.258	(1.000)	834410	10.0000	
32 1,2-Dichloropropane	63	10.942	10.744	(1.045)	117458	10.0659	10
34 Trichloroethene	95	11.169	10.987	(1.067)	233728	11.3795	11
38 cis-1,3-Dichloropropene	75	12.095	11.928	(1.155)	174052	13.0013	13(R)
40 trans-1,3-Dichloropropene	75	12.657	12.504	(1.209)	126976	11.5048	12
41 1,1,2-Trichloroethane	83	12.854	12.702	(0.844)	137402	12.3218	12
42 Toluene	92	13.173	13.020	(0.865)	222677	14.0489	14(R)
46 Tetrachloroethene	166	14.463	14.340	(0.950)	168647	8.42774	8.4
* 47 Chlorobenzene-d5	117	15.221	15.099	(1.000)	502849	10.0000	
48 Chlorobenzene	112	15.267	15.145	(1.003)	240102	8.34065	8.3
49 Ethylbenzene	91	15.737	15.615	(1.034)	462732	9.43621	9.4
50 Xylene (m,p)	106	15.965	15.828	(1.049)	305358	15.7352	16(Q)
52 Styrene	104	16.405	16.298	(1.078)	181265	7.62997	7.6
53 1,1,2,2-Tetrachloroethane	83	16.526	16.404	(1.086)	328876	9.47419	9.5
54 Xylene (o)	106	16.542	16.435	(1.087)	167277	9.23433	9.2
59 1,3-Dichlorobenzene	146	19.197	19.106	(1.261)	405776	10.7111	11(H)
60 1,4-Dichlorobenzene	146	19.303	19.212	(1.268)	379335	11.0459	11
61 1,2-Dichlorobenzene	146	19.850	19.758	(1.304)	355563	10.6060	11

QC Flag Legend

Q - Qualifier signal failed the ratio test.
R - Spike/Surrogate failed recovery limits.
H - Operator selected an alternate compound hit.

STL Burlington

RECOVERY REPORT

Client Name: Client SDG:
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: E7_LCS Client Smp ID: E7_LCS
Level: LOW Operator: GMM
Data Type: MS DATA SampleType: LCS
SpikeList File: ACCANA2.spk Quant Type: ISTD
Sublist File: ACCANA2.sub
Method File: /chem/X.i/Xsvr.p/xcxjto15.b/ato15.m
Misc Info:

SPIKE COMPOUND	CONC ADDED ppbv	CONC RECOVERED ppbv	% RECOVERED	LIMIT
2 Chloromethane	10	6.5	64.91*	70-13
4 Vinyl Chloride	10	7.3	73.20	70-13
6 Bromomethane	10	8.8	87.80	70-13
7 Chloroethane	10	8.5	85.29	70-13
10 Trichlorofluoromet	10	9.2	92.56	70-13
13 Methylene Chloride	10	8.1	81.03	70-13
18 1,1-Dichloroethane	10	8.1	81.06	70-13
21 cis-1,2-Dichloroet	10	8.7	86.91	70-13
24 Chloroform	10	8.8	88.32	70-13
26 1,2-Dichloroethane	10	8.9	88.66	70-13
27 1,1,1-Trichloroeth	10	9.6	95.69	70-13
28 Benzene	10	9.6	96.34	70-13
29 Carbon Tetrachlori	10	13	128.24	70-13
32 1,2-Dichloropropan	10	10	100.66	70-13
34 Trichloroethene	10	11	113.79	70-13
38 cis-1,3-Dichloropr	10	13	130.01*	70-13
40 trans-1,3-Dichloro	10	12	115.05	70-13
41 1,1,2-Trichloroeth	10	12	123.22	70-13
42 Toluene	10	14	140.49*	70-13
46 Tetrachloroethene	10	8.4	84.28	70-13
48 Chlorobenzene	10	8.3	83.41	70-13
49 Ethylbenzene	10	9.4	94.36	70-13
50 Xylene (m,p)	20	16	78.68	70-13
52 Styrene	10	7.6	76.30	70-13
53 1,1,2,2-Tetrachlor	10	9.5	94.74	70-13
54 Xylene (o)	10	9.2	92.34	70-13
59 1,3-Dichlorobenzen	10	11	107.11	70-13
60 1,4-Dichlorobenzen	10	11	110.46	70-13
61 1,2-Dichlorobenzen	10	11	106.06	70-13

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

E7_LCSD

Lab Name: STL BURLINGTON Contract: 20031

Lab Code: STLVT Case No.: 20031 SAS No.: SDG No.: 83075

Matrix: (soil/water) AIR Lab Sample ID: E7_LCSD

Sample wt/vol: 200(g/mL) ML Lab File ID: CX010JQD

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

% Moisture: not dec. _____ Date Analyzed: 05/29/01

GC Column: DB-1 ID: 0.35 (mm) Dilution Factor: 1.0

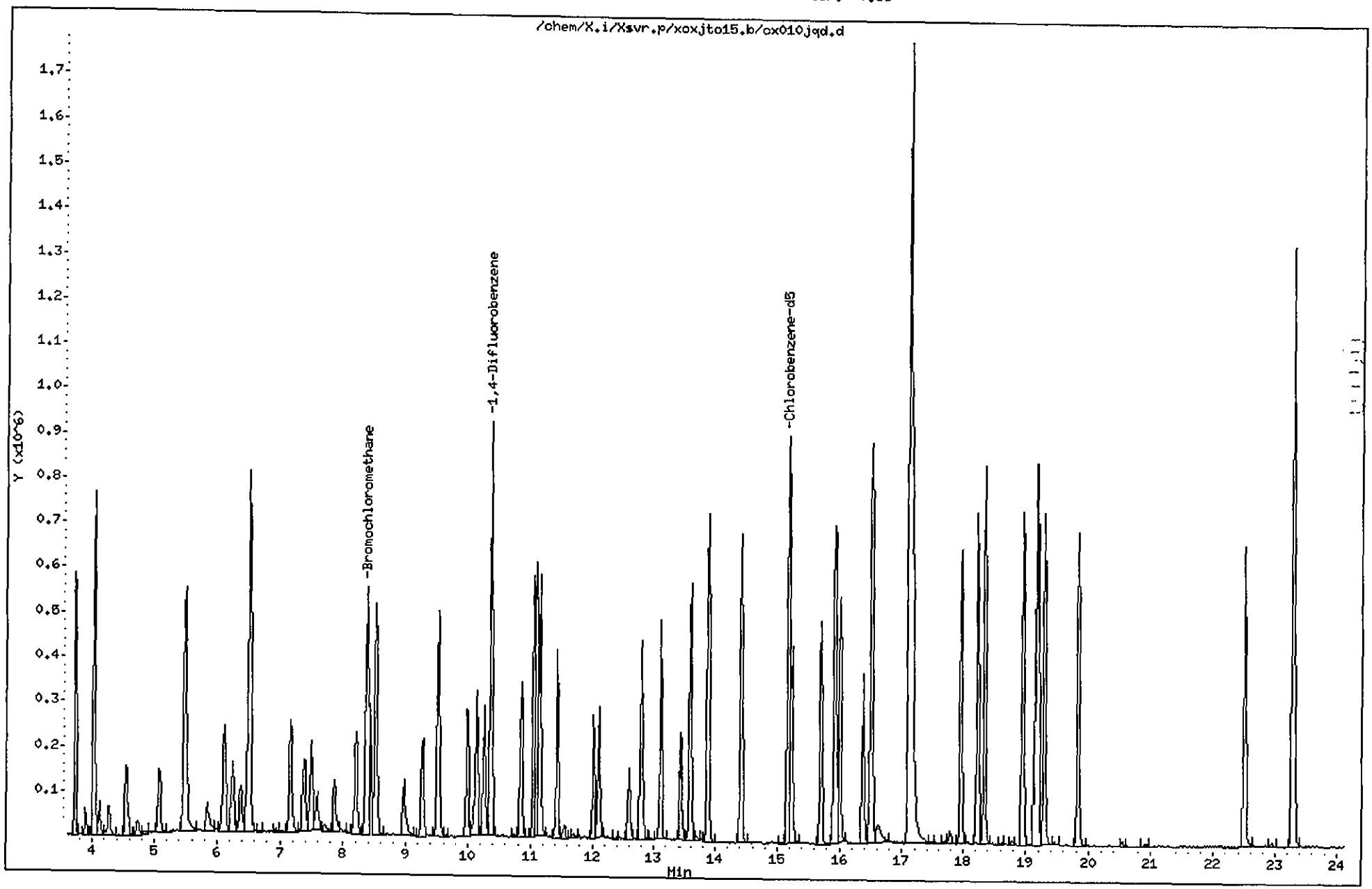
Soil Extract Volume:_____(uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) PPBV	Q
74-87-3	Chloromethane	6.6	
75-01-4	Vinyl Chloride	8.4	
74-83-9	Bromomethane	10	
75-00-3	Chloroethane	9.2	
75-69-4	Trichlorofluoromethane	10	
75-09-2	Methylene Chloride	8.8	
75-34-3	1,1-Dichloroethane	8.6	
156-59-2	cis-1,2-Dichloroethene	9.7	
67-66-3	Chloroform	9.9	
71-55-6	1,1,1-Trichloroethane	8.4	
56-23-5	Carbon Tetrachloride	13	
71-43-2	Benzene	8.5	
107-06-2	1,2-Dichloroethane	8.2	
79-01-6	Trichloroethene	10	
78-87-5	1,2-Dichloropropane	9.4	
10061-01-5	cis-1,3-Dichloropropene	12	
108-88-3	Toluene	15	
10061-02-6	trans-1,3-Dichloropropene	10	
79-00-5	1,1,2-Trichloroethane	13	
127-18-4	Tetrachloroethene	8.3	
108-90-7	Chlorobenzene	8.4	
100-41-4	Ethylbenzene	9.2	
1330-20-7	Xylene (m,p)	14	
100-42-5	Styrene	8.1	
95-47-6	Xylene (o)	9.0	
79-34-5	1,1,2,2-Tetrachloroethane	9.2	
541-73-1	1,3-Dichlorobenzene	11	
106-46-7	1,4-Dichlorobenzene	11	
95-50-1	1,2-Dichlorobenzene	11	

Data File: /chem/X.i/Xsvr.p/xoxjto15.b/ox010jqd.d
Date : 29-MAY-2001 15:58
Client ID: E7_LCSD
Sample Info: E7_LCSD;E7_LCSD
Purge Volume: 200.0
Column phase: DB-1

Instrument: X.i

Operator: GMM
Column diameter: 0.35



STL Burlington

AIR TOXICS QUANTITATION REPORT

Data file : /chem/X.i/Xsvr.p/xcxjto15.b/cx010jqd.d
Lab Smp Id: E7_LCSD Client Smp ID: E7_LCSD
Inj Date : 29-MAY-2001 15:58
Operator : GMM Inst ID: X.i
Smp Info : E7_LCSD;E7_LCSD
Misc Info :
Comment :
Method : /chem/X.i/Xsvr.p/xcxjto15.b/ato15.m
Meth Date : 04-Jun-2001 15:35 dmg Quant Type: ISTD
Cal Date : 09-MAY-2001 14:41 Cal File: cx020i2.d
Als bottle: 1 QC Sample: LCSD
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ACCANA2.sub
Target Version: 3.50
Processing Host: chemsvr4

Concentration Formula: Amt * DF * X* Uf/Vo) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
X	200.00000	method volume factor
Uf	1.00000	ng unit correction factor
Vo	200.00000	Sample Volume purged (mL)

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	FINAL (ppbv)
2	Chloromethane	50	3.888	3.840	(0.464)	66378	6.61583	6.6(R)
4	Vinyl Chloride	62	4.119	4.071	(0.492)	88983	8.43364	8.4
6	Bromomethane	94	4.537	4.474	(0.542)	151216	10.3613	10
7	Chloroethane	64	4.739	4.647	(0.566)	53261	9.15480	9.2
10	Trichlorofluoromethane	101	5.494	5.402	(0.656)	684479	10.2035	10
13	Methylene Chloride	49	6.237	6.146	(0.745)	146780	8.78364	8.8
18	1,1-Dichloroethane	63	7.375	7.269	(0.880)	244124	8.59015	8.6
21	cis-1,2-Dichloroethene	61	8.210	8.088	(0.980)	199015	9.67167	9.7
* 22	Bromochloromethane	128	8.377	8.255	(1.000)	231297	10.0000	
24	Chloroform	83	8.513	8.392	(1.016)	444491	9.89158	9.9
26	1,2-Dichloroethane	62	9.272	9.150	(0.895)	281842	8.22856	8.2
27	1,1,1-Trichloroethane	97	9.515	9.408	(0.918)	479583	8.42591	8.4
28	Benzene	78	10.001	9.879	(0.965)	344568	8.52020	8.5
29	Carbon Tetrachloride	117	10.137	10.031	(0.978)	279660	13.4906	13(R)

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppbv)	CONCENTRATIONS FINAL (ppbv)
* 31 1,4-Difluorobenzene	114	10.365	10.258	(1.000)	925065	10.0000	
32 1,2-Dichloropropane	63	10.850	10.744	(1.047)	121990	9.42974	9.4
34 Trichloroethene	95	11.093	10.987	(1.070)	232022	10.1894	10
38 cis-1,3-Dichloropropene	75	12.019	11.928	(1.160)	179766	12.1122	12
40 trans-1,3-Dichloropropene	75	12.611	12.504	(1.217)	128279	10.4838	10
41 1,1,2-Trichloroethane	83	12.793	12.702	(0.843)	147257	12.8965	13
42 Toluene	92	13.112	13.020	(0.864)	244494	15.0643	15(R)
46 Tetrachloroethene	166	14.417	14.340	(0.950)	170349	8.31352	8.3
* 47 Chlorobenzene-d5	117	15.175	15.099	(1.000)	514902	10.0000	
48 Chlorobenzene	112	15.236	15.145	(1.004)	247789	8.40619	8.4
49 Ethylbenzene	91	15.707	15.615	(1.035)	459458	9.15012	9.2
50 Xylene (m,p)	106	15.934	15.828	(1.050)	289580	14.5729	14(Q)
52 Styrene	104	16.374	16.298	(1.079)	196678	8.08495	8.1
53 1,1,2,2-Tetrachloroethane	83	16.496	16.404	(1.087)	327448	9.21224	9.2
54 Xylene (o)	106	16.526	16.435	(1.089)	167758	9.04410	9.0(Q)
59 1,3-Dichlorobenzene	146	19.182	19.106	(1.264)	414972	10.6975	11
60 1,4-Dichlorobenzene	146	19.288	19.212	(1.271)	399101	11.3495	11
61 1,2-Dichlorobenzene	146	19.834	19.758	(1.307)	372945	10.8641	11

QC Flag Legend

Q - Qualifier signal failed the ratio test.
R - Spike/Surrogate failed recovery limits.

STL Burlington

RECOVERY REPORT

Client Name: Client SDG:
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: E7_LCSD Client Smp ID: E7_LCSD
Level: LOW Operator: GMM
Data Type: MS DATA SampleType: LCSD
SpikeList File: ACCANA2.spk Quant Type: ISTD
Sublist File: ACCANA2.sub
Method File: /chem/X.i/Xsvr.p/xcxjto15.b/ato15.m
Misc Info:

SPIKE	COMPOUND	CONC ADDED ppbv	CONC RECOVERED ppbv	% RECOVERED	LIMITS
2	Chloromethane	10	6.6	66.16*	70-130
4	Vinyl Chloride	10	8.4	84.34	70-130
6	Bromomethane	10	10	103.61	70-130
7	Chloroethane	10	9.2	91.55	70-130
10	Trichlorofluoromet	10	10	102.03	70-130
13	Methylene Chloride	10	8.8	87.84	70-130
18	1,1-Dichloroethane	10	8.6	85.90	70-130
21	cis-1,2-Dichloroet	10	9.7	96.72	70-130
24	Chloroform	10	9.9	98.92	70-130
26	1,2-Dichloroethane	10	8.2	82.29	70-130
27	1,1,1-Trichloroeth	10	8.4	84.26	70-130
28	Benzene	10	8.5	85.20	70-130
29	Carbon Tetrachlori	10	13	134.91*	70-130
32	1,2-Dichloropropan	10	9.4	94.30	70-130
34	Trichloroethene	10	10	101.89	70-130
38	cis-1,3-Dichloropr	10	12	121.12	70-130
40	trans-1,3-Dichloro	10	10	104.84	70-130
41	1,1,2-Trichloroeth	10	13	128.96	70-130
42	Toluene	10	15	150.64*	70-130
46	Tetrachloroethene	10	8.3	83.14	70-130
48	Chlorobenzene	10	8.4	84.06	70-130
49	Ethylbenzene	10	9.2	91.50	70-130
50	Xylene (m,p)	20	14	72.86	70-130
52	Styrene	10	8.1	80.85	70-130
53	1,1,2,2-Tetrachlor	10	9.2	92.12	70-130
54	Xylene (o)	10	9.0	90.44	70-130
59	1,3-Dichlorobenzen	10	11	106.97	70-130
60	1,4-Dichlorobenzen	10	11	113.49	70-130
61	1,2-Dichlorobenzen	10	11	108.64	70-130

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Severn Trent Laboratories, Inc.

SAMPLE PREPARATION

Severn Trent Laboratories-VT
Instrument Run Log
Instrument X

Batch: [illegible]
Opened: [illegible] Time: [illegible]
Closed: [illegible] Time: [illegible]

ETR # [illegible]
SDG # [illegible]

Tune [illegible]
ISTD Tag # [illegible]

Temp [illegible] °C B P [illegible] "Hg

INJ TIME	LAB ID	CAN ID #	CLIENT ID	ETR #	INLET #	SAMPLE VOLUME (mL)	DILUTION FACTOR	ISTD RECOVERY	CONC	ANALYST	COMMENTS
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	
[illegible]	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]		[illegible]	[illegible]		[illegible]
[illegible]	[illegible]		[illegible]			[illegible]		[illegible]	[illegible]		
[illegible]	[illegible]		[illegible]			[illegible]		[illegible]	[illegible]		
[illegible]	[illegible]		[illegible]			[illegible]		[illegible]	[illegible]		
[illegible]	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]		[illegible]	[illegible]		[illegible]
[illegible]	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]		[illegible]	[illegible]		
[illegible]	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]		[illegible]	[illegible]		
[illegible]	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]		[illegible]	[illegible]		[illegible]
[illegible]	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]		[illegible]	[illegible]		
[illegible]	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]		[illegible]	[illegible]		
[illegible]	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]		[illegible]	[illegible]		
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		
[illegible]	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]
[illegible]	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		
[illegible]	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]
[illegible]	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		
[illegible]	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]
[illegible]	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]
[illegible]	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]

Severn Trent Laboratories-VT
Instrument Run Log
Instrument X

Batch: xexjtois
Opened: 5 / 24 / 01 **Time:** 13.0
Closed: 5 / 31 / 01 **Time:** 1306

ETR #	SDG #
23637	[illegible]
23150	[illegible]
23679	[illegible]

Tune ✓
ISTD Tag # CX-2466

Temp 19.5 °C B P . 29.72 "Hg

INJ TIME	LAB ID	CAN ID #	CLIENT ID	ETR #	INLET #	SAMPLE VOLUME (mL)	DILUTION FACTOR	ISTD RECOVERY	CONC.	ANALYST	COMMENTS
1300	Cx0116p	n/a	XBFBLK	n/a	n/a	n/a	n/a	n/a	✓	Gmm	
1435	Cx0109j	6241	ASTDL1C		15	50		✓	✓		ATCM [illegible]
1525	Cx010jq	6208	E7 LCS		16	2.0		✓	✓		AT CM 29 [illegible]
1552	Cx010jqd	6208	E7-LCSD		16			✓	✓		
1709	Cx0001j	n/a	ABLKE7		2			✓	✓		
1732	4542753B	6054	-10L EA-	83151	12	22	3.7 29	✓	✓		C
1813	45427703	6062	-10U 3EA-		4	50	2.0 11.8	✓	✓		C
1849	45427[illegible]2	6124	-10L EA		9	2.0	1 1	✓	✓		C
1934	45459[illegible]2	6052	-LLA	83115	11	↓	↓	✓	✓		C
2046	45[illegible]5	Bag	SVE OUT 17L	83150	5	2.0	10	✓	↑		
0922	45508[illegible]		SVE-1-17L		6	100	1.0, 2.0 2690	✓	↑		
0952	45508[illegible]2		SVEOUT-17L		5	10	2.0	✓	✓		C
1026	45508[illegible]2		SVE 1 17L		6	10	1.0, 2.0 26900	✓	✓		C

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SAMPLE HANDLING

PLEASE FOLD THIS SHIPPING DOCUMENT IN HALF AND PLACE IT IN A WAYBILL POUCH AFFIXED TO YOUR SHIPMENT SO THAT THE BAR-CODE PORTION OF THE LABEL CAN BE READ AND SCANNED.
***WARNING: USE ONLY THE PRINTED ORIGINAL LABEL FOR SHIPPING. USING A PHOTOCOPY OF THIS LABEL FOR SHIPPING PURPOSES IS FRAUDULENT AND COULD RESULT IN ADDITIONAL BILLING CHARGES, ALONG WITH THE CANCELLATION OF YOUR FEDEX ACCOUNT NUMBER.

FROM: Randy Dumaop (904)777-4812
J.A. Jones Environmental Servic
6219 Authority Ave

Jacksonville, FL 32221

SHIPPER'S FEDEX ACCOUNT NUMBER

FedEx
Federal Express

TO: Ron Pentkowski (802)655-1203
Severn Trent Laboratories
208 South Park Drive
Suite 1

Colchester, VT 05446-

SHIP DATE: 21MAY01
MAN-WGT: 8 LBS

REF: 154282.99.22.01.01/30857

DELIVERY ADDRESS BARCODE (FEDEX-EDR)

CAD # 4653313 ** 2DAY **

WED
AA

Glen Corcoran
5-23-01
0930

TRK # 7900 5611 7579 FORM 0201

Deliver By:
BTV 23MAY01

05446-VT-US

KF BTVA

0200

SEVERN TRENT LABORATORIES LOG-IN SHEET - Form DC-1

Lab Name Severn Trent Laboratories - VT Page 1 of 1

Received By (Print Name) Glen Corcoran Log-in Date: 5.23.01

Received By (Signature) Glen Corcoran

Case Number: 20020

Sample Delivery Group No 83075

ETR Number 83075

REMARKS

1. **Custody Seal** (Present) ~~Absent*~~ (Intact) ~~Broken~~
2. **Custody Seal Nos.:** NA
3. **Chain-of-Custody Records** (Present) ~~Absent*~~
4. **Sample Information Sheets** ~~Present~~ (Absent*)
5. **Airbill** (Airbill) ~~Sticker~~ (Present) ~~Absent*~~
6. **Airbill No.:** 7900 5081 7579
7. **Sample Tags** ~~Present~~ (Absent*) **Sample Tag Numbers** ~~Listed~~ (Not Listed) ~~on Chain-of-Custody~~
8. **Sample Condition:** (Intact) ~~Broken*~~ ~~Leaking*~~
9. **Does information on the custody records, sample information sheets, sample tags and labels agree?** (Yes) ~~No*~~
10. **Date Received at Lab:** 05.23.01
11. **Time Received:** 0930
12. **Cooler Temperature:** NA

Sample Transfer

Fraction All

Area # Level 4

By G. Corcoran

On 5.23.01

CORRESPONDING			
CLIENT SAMPLE #	SAMPLE TAG #	ASSIGNED LAB #	REMARKS. CONDITION OF SAMPLE SHIPMENT, ETC
525-SLE-EA-052101-2	NA	454594	Were air bubbles present in any VOA vials?
			Samples received intact with custody seals in place
			GJC 5.23.01

* Contact Project Director

Reviewed by [illegible] 5/24/01 Logbook No

Date Logbook Page No

0103

** COOLER RECEIPT CHECKLIST **

WERE CUSTODY SEALS PRESENT ON THE COOLERS?

(YES) NO

IF SO, WERE THERE CUSTODY SEAL NUMBERS?

YES (NO)

LIST THE CUSTODY SEAL NUMBERS. ~ ~

WHAT TYPE OF COOLING WAS UTILIZED?

ICE MELTED ICE PACKS (NONE)

COOLER TEMPERATURE (degrees c): Amr

DATE AND TIME COOLER RECEIVED: 5-23-01 0930

DO SAMPLES APPEAR TO BE INTACT: (YES) NO

DO ANY SAMPLES HAVE SHORT HOLDING TIMES?
(less than seven days)

WET CHEM YES (NO)

EXTRACTABLES YES (NO)

UNPRES VOA YES (NO)

RADIATION SCREEN RESULTS <0.05 MR/HR (YES) NO

Appendix C

Laboratory Analytical Reports for Groundwater Samples

RCVD 4/10/2000

ACCURA ANALYTICAL LABORATORY, INC.

6017 Financial Drive, Norcross, Georgia, 30071, Phone (770) 449-8800

CASE NARRATIVE for Project Number: 23975
Client Project: 103 RD ST. BASELINE G.W. Sampling / 083 CTO 029

The following items were noted concerning this project:

1. The samples were received at 2°C.

2. The following samples required dilution due to high analyte concentration, resulting in elevated detection limits:
   VOC SW-846-8260B
   029-SMW04-Q1-00
   029-SMW11-Q1-00

3. The following surrogate was outside the method specified limits due to matrix interference:
   VOC SW-846-8260B
   Bromofluorobenzene 029-SMW05-Q1-00

4. For the following samples, C(39) surrogate was outside the method specified limits but within the established in-house limits:
   FL-PRO
   Method Blank
   Laboratory Control Sample (LCS)

5. For the following samples, o-Terphenyl and C(39) surrogates were outside the method specified limits but within the established in-house limits:
   FL-PRO

029-SMW02-Q1-00	029-SMW08-Q1-00
029-SMW04-Q1-00	029-SMW09-Q1-00
029-SMW05-Q1-00	029-DMW01-Q1-00
029-SMW07-Q1-00	029-DUP01-Q1-00

6. For the following samples, o-Terphenyl surrogate was outside the method specified limits but within the established in-house limits:
   FL-PRO
   029-SMW01-Q1-00
   029-SMW03-Q1-00
   029-SMW10-Q1-00
   029-SMW11-Q1-00
   029-SMW12-Q1-00

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7. The following analysis was performed by a subcontract laboratory:
   PAH SW-846-8310

8. The following samples required dilution due to high analyte concentration and/or the nature of the matrix, resulting in elevated detection limits:
   PAH SW-846-8310
   029-SMW04-Q1-00
   029-SMW11-Q1-00

9. The J flags noted for the VOC and FL-PRO analyses indicate estimated values in which the compounds are present at concentrations that are less than the quantitation limit, but above the method detection limit. These results should be considered estimated.

10. The B flags noted for the VOC and FL-PRO analyses indicate that the analyte was detected in the method blank at a concentration above the MDL, and the samples had concentrations that were less than ten times the reported hit in the method blank. These results should be considered estimated.

11. The matrix spike and/or matrix spike duplicate recoveries were outside the project specific acceptance limits for the following analytes due to matrix interference:
   PAH SW-846-8310

Acenaphthene	(MSD)
Dibenzo (a,h) anthracene	(MS/MSD)

12. The LCS recovery for the FL-PRO analysis was outside the project specific limits, but within the established in-house limits; therefore the data satisfies the method requirement.

Quality Assurance

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ACCURA ANALYTICAL LABORATORY, INC.

6017 Financial Drive, Norcross, Georgia 30017, Phone (770)449-8800, FAX (770)449-5477
FL Certification # E87429 NC Certification # 483 SC Certification # 98015 USACE-MRD Approved

LABORATORY REPORT

Accura Sample ID #: AB89497 **Accura Project #: 23975**

Client: CH2M HILL - CCI Date Sampled: 03/20/2000
Client Contact: SAM ROSS Date Received: 03/21/2000
Client Project Number: 083 CTO 029 Date Reported: 04/07/2000
Client Project Name: 103 RD ST. BASELINE G.W. SAMPLING Sample Matrix: WATER
Client Sample ID: 029-SMW01-Q1-00

ANALYSIS: Metals - Lead Method Ref: 3010A/6010B
Date Ext/Dig/Prep: 03/23/2000 Date Analyzed: 03/29/2000 Result Units: mg/L

Analyte Name	Analytical Results	Reported Detection Limits
Lead	0.068	0.010

ANALYSIS: PAH's by HPLC Method Ref: 8310
Date Ext/Dig/Prep: 03/24/2000 Date Analyzed: 03/26/2000 Result Units: ug/L

Analyte Name	Analytical Results	Reported Detection Limits
Acenaphthene	<RDL	1.0
Acenaphthylene	<RDL	2.1
Anthracene	<RDL	0.7
Benzo(a)anthracene	<RDL	0.1
Benzo(a)pyrene	<RDL	0.1
Benzo(b)fluoranthene	<RDL	0.2
Benzo(g,h,i)perylene	<RDL	0.8
Benzo(k)fluoranthene	<RDL	0.2
Chrysene	<RDL	0.2
Dibenzo(a,h)anthracene	<RDL	0.3
Fluoranthene	<RDL	0.2
Fluorene	<RDL	0.2
Indeno(1,2,3-cd)pyrene	<RDL	0.4
Naphthalene	<RDL	1.0
Phenanthrene	<RDL	0.7
Pyrene	<RDL	0.3

ANALYSIS: Petroleum Range Organics (PRO) Method Ref: FL-PRO
Date Ext/Dig/Prep: 03/26/2000 Date Analyzed: 03/31/2000 Result Units: mg/L

Analyte Name	Analytical Results	Reported Detection Limits
Petroleum Range Organics (PRO)	0.42JB	1.0

ANALYSIS: VOC's Navy Method Ref: 8260B

Date Ext/Dig/Prep: 03/23/2000 Date Analyzed: 03/23/2000 Result Units: ug/L

Analyte Name	Analytical Results	Reported Detection Limits
1,1,1,2-Tetrachloroethane	<RDL	2.5
1,1,1-Trichloroethane	<RDL	4
1,1,2,2-Tetrachloroethane	<RDL	2
1,1,2-Trichloroethane	<RDL	5
1,1-Dichloroethane	<RDL	2
1,1-Dichloroethene	<RDL	6
1,2,3-Trichlorobenzene	2.9	1.5
1,2,3-Trichloropropane	<RDL	16
1,2,4-Trichlorobenzene	2.4	2
1,2,4-Trimethylbenzene	<RDL	6.5
1,2-Dibromo-3-chloropropane	1.4J	13
1,2-Dichlorobenzene	<RDL	1.5
1,2-Dichloroethane	<RDL	3
1,2-Dichloropropane	<RDL	2
1,2-Ethylene Dibromide	<RDL	3
1,3,5-Trimethylbenzene	<RDL	2.5
1,3-Dichlorobenzene	<RDL	6
1,3-Dichloropropane	<RDL	2
1,4-Dichlorobenzene	<RDL	1.5
2,2-Dichloropropane	<RDL	17.5
2-Chlorotoluene	<RDL	2
4-Chlorotoluene	<RDL	3
Benzene	<RDL	2
Bromobenzene	<RDL	1.5
Bromochloromethane	<RDL	2
Bromodichloromethane	<RDL	4
Bromoform	<RDL	6
Bromomethane	<RDL	5.5
Carbon tetrachloride	<RDL	10.5
Chlorobenzene	<RDL	2
Chloroethane	<RDL	5
Chloroform	<RDL	1.5
Chloromethane	1.1J	6.5
cis-1,2-Dichloroethene	<RDL	6
cis-1,3-Dichloropropene	<RDL	5
Dibromochloromethane	<RDL	2.5
Dibromomethane	<RDL	12
Dichlorodifluoromethane	<RDL	5
Ethylbenzene	<RDL	3
Hexachlorobutadiene	1.3J	5.5
Isopropylbenzene	<RDL	2.5
Methylene chloride	2.0B	1.5
n-Butylbenzene	<RDL	5.5
n-Propylbenzene	<RDL	2
Naphthalene	3.5	2
p-Isopropyltoluene	<RDL	6

Sec-Butylbenzene	<RDL	6.5
Styrene	<RDL	2
Tert-Butylbenzene	<RDL	7
Tetrachloroethylene	<RDL	7
Toluene	1.1J	5.5
Total Xylenes	<RDL	5
trans-1,2-Dichloroethene	<RDL	3
trans-1,3-Dichloropropene	<RDL	5
Trichloroethylene	<RDL	5
Trichlorofluoromethane	<RDL	4
Vinyl chloride	<RDL	5.5

ANALYSIS: X_PAH QC Surrogates (Liquid) Method Ref: 8310

Date Ext/Dig/Prep: 03/24/2000 Date Analyzed: 03/26/2000 Result Units: %

Analyte Name	Analytical Results	Reported Detection Limits
p-terphenyl d14	64	

ANALYSIS: X_PRO QC Surrogates (Water) Method Ref: FL-PRO

Date Ext/Dig/Prep: 03/26/2000 Date Analyzed: 03/31/2000 Result Units: %

Analyte Name	Analytical Results	Reported Detection Limits
C(39)	50	
o-Terphenyl	45	

ANALYSIS: X_VOC QC Surrogates (Waters) Method Ref: 8260B

Date Ext/Dig/Prep: 03/23/2000 Date Analyzed: 03/23/2000 Result Units: %

Analyte Name	Analytical Results	Reported Detection Limits
1,2-Dichloroethane-d4	103	
4-Bromofluorobenzene	105	
Toluene-d8	96	

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LABORATORY REPORT

Accura Sample ID #: AB89498 **Accura Project #: 23975**

Client: CH2M HILL - CCI Date Sampled: 03/20/2000

Client Contact: SAM ROSS Date Received: 03/21/2000

Client Project Number: 083 CTO 029 Date Reported: 04/07/2000

Client Project Name: 103 RD ST. BASELINE G.W. SAMPLING Sample Matrix: WATER

Client Sample ID: 029-SMW02-Q1-00

ANALYSIS: Metals - Lead Method Ref: 3010A/6010B

Date Ext/Dig/Prep: 03/23/2000 Date Analyzed: 03/29/2000 Result Units: mg/L

Analyte Name	Analytical Results	Reported Detection Limits
Lead	0.036	0.010

ANALYSIS: PAH's by HPLC Method Ref: 8310

Date Ext/Dig/Prep: 03/24/2000 Date Analyzed: 03/26/2000 Result Units: ug/L

Analyte Name	Analytical Results	Reported Detection Limits
Acenaphthene	<RDL	1.0
Acenaphthylene	<RDL	2.1
Anthracene	<RDL	0.7
Benzo(a)anthracene	<RDL	0.1
Benzo(a)pyrene	<RDL	0.1
Benzo(b)fluoranthene	<RDL	0.2
Benzo(g,h,i)perylene	<RDL	0.8
Benzo(k)fluoranthene	<RDL	0.2
Chrysene	<RDL	0.2
Dibenzo(a,h)anthracene	<RDL	0.3
Fluoranthene	<RDL	0.2
Fluorene	<RDL	0.2
Indeno(1,2,3-cd)pyrene	<RDL	0.4
Naphthalene	<RDL	1.0
Phenanthrene	<RDL	0.7
Pyrene	<RDL	0.3

ANALYSIS: Petroleum Range Organics (PRO) Method Ref: FL-PRO

Date Ext/Dig/Prep: 03/26/2000 Date Analyzed: 03/31/2000 Result Units: mg/L

Analyte Name	Analytical Results	Reported Detection Limits
Petroleum Range Organics (PRO)	0.33JB	1.0

ANALYSIS: VOC's Navy Method Ref: 8260B

Date Ext/Dig/Prep: 03/23/2000 Date Analyzed: 03/23/2000 Result Units: ug/L

Analyte Name	Analytical Results	Reported Detection Limits
1,1,1,2-Tetrachloroethane	<RDL	2.5
1,1,1-Trichloroethane	<RDL	4
1,1,2,2-Tetrachloroethane	<RDL	2
1,1,2-Trichloroethane	<RDL	5
1,1-Dichloroethane	<RDL	2
1,1-Dichloroethene	<RDL	6
1,2,3-Trichlorobenzene	1.1J	1.5
1,2,3-Trichloropropane	<RDL	16
1,2,4-Trichlorobenzene	1.7J	2
1,2,4-Trimethylbenzene	1.9J	6.5
1,2-Dibromo-3-chloropropane	<RDL	13
1,2-Dichlorobenzene	<RDL	1.5
1,2-Dichloroethane	<RDL	3
1,2-Dichloropropane	<RDL	2
1,2-Ethylene Dibromide	<RDL	3
1,3,5-Trimethylbenzene	<RDL	2.5
1,3-Dichlorobenzene	<RDL	6
1,3-Dichloropropane	<RDL	2
1,4-Dichlorobenzene	<RDL	1.5
2,2-Dichloropropane	<RDL	17.5
2-Chlorotoluene	<RDL	2
4-Chlorotoluene	<RDL	3
Benzene	<RDL	2
Bromobenzene	<RDL	1.5
Bromochloromethane	<RDL	2
Bromodichloromethane	<RDL	4
Bromoform	<RDL	6
Bromomethane	<RDL	5.5
Carbon tetrachloride	<RDL	10.5
Chlorobenzene	<RDL	2
Chloroethane	<RDL	5
Chloroform	<RDL	1.5
Chloromethane	<RDL	6.5
cis-1,2-Dichloroethene	<RDL	6
cis-1,3-Dichloropropene	<RDL	5
Dibromochloromethane	<RDL	2.5
Dibromomethane	<RDL	12
Dichlorodifluoromethane	<RDL	5
Ethylbenzene	<RDL	3
Hexachlorobutadiene	<RDL	5.5
Isopropylbenzene	<RDL	2.5
Methylene chloride	<RDL	1.5
n-Butylbenzene	<RDL	5.5
n-Propylbenzene	<RDL	2
Naphthalene	3.7	2
p-Isopropyltoluene	5.2J	6

Sec-Butylbenzene	<RDL	6.5
Styrene	<RDL	2
Tert-Butylbenzene	<RDL	7
Tetrachloroethylene	<RDL	7
Toluene	<RDL	5.5
Total Xylenes	<RDL	5
trans-1,2-Dichloroethene	<RDL	3
trans-1,3-Dichloropropene	<RDL	5
Trichloroethylene	<RDL	5
Trichlorofluoromethane	<RDL	4
Vinyl chloride	<RDL	5.5

ANALYSIS: X PAH QC Surrogates (Liquid) Method Ref: 8310

Date Ext/Dig/Prep: 03/24/2000 Date Analyzed: 03/26/2000 Result Units: %

Analyte Name	Analytical Results	Reported Detection Limits
p-terphenyl d14	50	

ANALYSIS: X PRO QC Surrogates (Water) Method Ref: FL-PRO

Date Ext/Dig/Prep: 03/26/2000 Date Analyzed: 03/31/2000 Result Units: %

Analyte Name	Analytical Results	Reported Detection Limits
C(39)	31	
o-Terphenyl	42	

ANALYSIS: X VOC QC Surrogates (Waters) Method Ref: 8260B

Date Ext/Dig/Prep: 03/23/2000 Date Analyzed: 03/23/2000 Result Units: %

Analyte Name	Analytical Results	Reported Detection Limits
1,2-Dichloroethane-d4	106	
4-Bromofluorobenzene	102	
Toluene-d8	99	

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LABORATORY REPORT

Accura Sample ID #: AB89499 **Accura Project #: 23975**

Client: CH2M HILL - CCI Date Sampled: 03/20/2000

Client Contact: SAM ROSS Date Received: 03/21/2000

Client Project Number: 083 CTO 029 Date Reported: 04/07/2000

Client Project Name: 103 RD ST. BASELINE G.W. SAMPLING Sample Matrix: WATER

Client Sample ID: 029-SMW03-Q1-00

ANALYSIS: Metals - Lead Method Ref: 3010A/6010B

Date Ext/Dig/Prep: 03/23/2000 Date Analyzed: 03/29/2000 Result Units: mg/L

Analyte Name	Analytical Results	Reported Detection Limits
Lead	0.057	0.010

ANALYSIS: PAH's by HPLC Method Ref: 8310

Date Ext/Dig/Prep: 03/24/2000 Date Analyzed: 03/26/2000 Result Units: ug/L

Analyte Name	Analytical Results	Reported Detection Limits
Acenaphthene	<RDL	1.0
Acenaphthylene	<RDL	2.1
Anthracene	<RDL	0.7
Benzo(a)anthracene	<RDL	0.1
Benzo(a)pyrene	<RDL	0.1
Benzo(b)fluoranthene	<RDL	0.2
Benzo(g,h,i)perylene	<RDL	0.8
Benzo(k)fluoranthene	<RDL	0.2
Chrysene	<RDL	0.2
Dibenzo(a,h)anthracene	<RDL	0.3
Fluoranthene	<RDL	0.2
Fluorene	<RDL	0.2
Indeno(1,2,3-cd)pyrene	<RDL	0.4
Naphthalene	3.7	1.0
Phenanthrene	<RDL	0.7
Pyrene	<RDL	0.3

ANALYSIS: Petroleum Range Organics (PRO) Method Ref: FL-PRO

Date Ext/Dig/Prep: 03/26/2000 Date Analyzed: 03/31/2000 Result Units: mg/L

Analyte Name	Analytical Results	Reported Detection Limits
Petroleum Range Organics (PRO)	1.5B	1.0

ANALYSIS: VOC's Navy Method Ref: 8260B

Date Ext/Dig/Prep: 03/23/2000 Date Analyzed: 03/23/2000 Result Units: ug/L

Analyte Name	Analytical Results	Reported Detection Limits
1,1,1,2-Tetrachloroethane	<RDL	2.5
1,1,1-Trichloroethane	<RDL	4
1,1,2,2-Tetrachloroethane	<RDL	2
1,1,2-Trichloroethane	<RDL	5
1,1-Dichloroethane	<RDL	2
1,1-Dichloroethene	<RDL	6
1,2,3-Trichlorobenzene	<RDL	1.5
1,2,3-Trichloropropane	<RDL	16
1,2,4-Trichlorobenzene	<RDL	2
1,2,4-Trimethylbenzene	52	6.5
1,2-Dibromo-3-chloropropane	<RDL	13
1,2-Dichlorobenzene	<RDL	1.5
1,2-Dichloroethane	<RDL	3
1,2-Dichloropropane	<RDL	2
1,2-Ethylene Dibromide	<RDL	3
1,3,5-Trimethylbenzene	20	2.5
1,3-Dichlorobenzene	<RDL	6
1,3-Dichloropropane	<RDL	2
1,4-Dichlorobenzene	<RDL	1.5
2,2-Dichloropropane	<RDL	17.5
2-Chlorotoluene	<RDL	2
4-Chlorotoluene	<RDL	3
Benzene	<RDL	2
Bromobenzene	<RDL	1.5
Bromochloromethane	<RDL	2
Bromodichloromethane	<RDL	4
Bromoform	<RDL	6
Bromomethane	<RDL	5.5
Carbon tetrachloride	<RDL	10.5
Chlorobenzene	<RDL	2
Chloroethane	<RDL	5
Chloroform	<RDL	1.5
Chloromethane	<RDL	6.5
cis-1,2-Dichloroethene	<RDL	6
cis-1,3-Dichloropropene	<RDL	5
Dibromochloromethane	<RDL	2.5
Dibromomethane	<RDL	12
Dichlorodifluoromethane	<RDL	5
Ethylbenzene	3.7	3
Hexachlorobutadiene	<RDL	5.5
Isopropylbenzene	4.6	2.5
Methylene chloride	<RDL	1.5
n-Butylbenzene	<RDL	5.5
n-Propylbenzene	4.2	2
Naphthalene	17	2
p-Isopropyltoluene	12	6

Sec-Butylbenzene	2.2J	6.5
Styrene	<RDL	2
Tert-Butylbenzene	<RDL	7
Tetrachloroethylene	<RDL	7
Toluene	1.4J	5.5
Total Xylenes	<RDL	5
trans-1,2-Dichloroethene	<RDL	3
trans-1,3-Dichloropropene	<RDL	5
Trichloroethylene	<RDL	5
Trichlorofluoromethane	<RDL	4
Vinyl chloride	<RDL	5.5

ANALYSIS: X PAH QC Surrogates (Liquid) Method Ref: 8310

Date Ext/Dig/Prep: 03/24/2000 Date Analyzed: 03/26/2000 Result Units: %

Analyte Name	Analytical Results	Reported Detection Limits
p-terphenyl d14	46	

ANALYSIS: X PRO QC Surrogates (Water) Method Ref: FL-PRO

Date Ext/Dig/Prep: 03/26/2000 Date Analyzed: 03/31/2000 Result Units: %

Analyte Name	Analytical Results	Reported Detection Limits
C(39)	54	
o-Terphenyl	29	

ANALYSIS: X VOC QC Surrogates (Waters) Method Ref: 8260B

Date Ext/Dig/Prep: 03/23/2000 Date Analyzed: 03/23/2000 Result Units: %

Analyte Name	Analytical Results	Reported Detection Limits
1,2-Dichloroethane-d4	108	
4-Bromofluorobenzene	105	
Toluene-d8	102	

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LABORATORY REPORT

Accura Sample ID #: AB89500 **Accura Project #: 23975**

Client: CH2M HILL - CCI Date Sampled: 03/20/2000

Client Contact: SAM ROSS Date Received: 03/21/2000

Client Project Number: 083 CTO 029 Date Reported: 04/07/2000

Client Project Name: 103 RD ST. BASELINE G.W. SAMPLING Sample Matrix: WATER

Client Sample ID: 029-SMW04-Q1-00

ANALYSIS: Metals - Lead Method Ref: 3010A/6010B

Date Ext/Dig/Prep: 03/23/2000 Date Analyzed: 03/29/2000 Result Units: mg/L

Analyte Name	Analytical Results	Reported Detection Limits
Lead	<RDL	0.010

ANALYSIS: PAH's by HPLC Method Ref: 8310

Date Ext/Dig/Prep: 03/24/2000 Date Analyzed: 03/26/2000 Result Units: ug/L

Analyte Name	Analytical Results	Reported Detection Limits
Acenaphthene	<RDL	5.2
Acenaphthylene	<RDL	10.3
Anthracene	<RDL	0.7
Benzo(a)anthracene	<RDL	0.1
Benzo(a)pyrene	<RDL	0.1
Benzo(b)fluoranthene	<RDL	0.2
Benzo(g,h,i)perylene	<RDL	0.8
Benzo(k)fluoranthene	<RDL	0.2
Chrysene	<RDL	0.2
Dibenzo(a,h)anthracene	<RDL	0.3
Fluoranthene	<RDL	0.2
Fluorene	<RDL	1.1
Indeno(1,2,3-cd)pyrene	<RDL	0.4
Naphthalene	58.2	5.2
Phenanthrene	<RDL	3.3
Pyrene	<RDL	0.3

ANALYSIS: Petroleum Range Organics (PRO) Method Ref: FL-PRO

Date Ext/Dig/Prep: 03/26/2000 Date Analyzed: 03/31/2000 Result Units: mg/L

Analyte Name	Analytical Results	Reported Detection Limits
Petroleum Range Organics (PRO)	8.6	1.0

ANALYSIS: VOC's Navy Method Ref: 8260B

Date Ext/Dig/Prep: 03/23/2000 Date Analyzed: 03/23/2000 Result Units: ug/L

Analyte Name	Analytical Results	Reported Detection Limits
1,1,1,2-Tetrachloroethane	<RDL	2.5
1,1,1-Trichloroethane	<RDL	4
1,1,2,2-Tetrachloroethane	<RDL	2
1,1,2-Trichloroethane	<RDL	5
1,1-Dichloroethane	<RDL	2
1,1-Dichloroethene	<RDL	6
1,2,3-Trichlorobenzene	<RDL	1.5
1,2,3-Trichloropropane	<RDL	16
1,2,4-Trichlorobenzene	<RDL	2
1,2,4-Trimethylbenzene	410	65
1,2-Dibromo-3-chloropropane	<RDL	13
1,2-Dichlorobenzene	<RDL	1.5
1,2-Dichloroethane	<RDL	3
1,2-Dichloropropane	<RDL	2
1,2-Ethylene Dibromide	<RDL	3
1,3,5-Trimethylbenzene	130	2.5
1,3-Dichlorobenzene	<RDL	6
1,3-Dichloropropane	<RDL	2
1,4-Dichlorobenzene	<RDL	1.5
2,2-Dichloropropane	<RDL	17.5
2-Chlorotoluene	<RDL	2
4-Chlorotoluene	<RDL	3
Benzene	2.8	2
Bromobenzene	<RDL	1.5
Bromochloromethane	<RDL	2
Bromodichloromethane	<RDL	4
Bromoform	<RDL	6
Bromomethane	<RDL	5.5
Carbon tetrachloride	<RDL	10.5
Chlorobenzene	<RDL	2
Chloroethane	<RDL	5
Chloroform	<RDL	1.5
Chloromethane	<RDL	6.5
cis-1,2-Dichloroethene	<RDL	6
cis-1,3-Dichloropropene	<RDL	5
Dibromochloromethane	<RDL	2.5
Dibromomethane	<RDL	12
Dichlorodifluoromethane	<RDL	5
Ethylbenzene	87	3
Hexachlorobutadiene	<RDL	5.5
Isopropylbenzene	43	2.5
Methylene chloride	<RDL	1.5
n-Butylbenzene	<RDL	5.5
n-Propylbenzene	54	2
Naphthalene	210	2
p-Isopropyltoluene	89	6

Sec-Butylbenzene	40	6.5
Styrene	<RDL	2
Tert-Butylbenzene	<RDL	7
Tetrachloroethylene	<RDL	7
Toluene	<RDL	5.5
Total Xylenes	280	5
trans-1,2-Dichloroethene	<RDL	3
trans-1,3-Dichloropropene	<RDL	5
Trichloroethylene	<RDL	5
Trichlorofluoromethane	<RDL	4
Vinyl chloride	<RDL	5.5

ANALYSIS: X PAH QC Surrogates (Liquid) Method Ref: 8310

Date Ext/Dig/Prep: 03/24/2000 Date Analyzed: 03/26/2000 Result Units: %

Analyte Name	Analytical Results	Reported Detection Limits
p-terphenyl d14	38	

ANALYSIS: X PRO QC Surrogates (Water) Method Ref: FL-PRO

Date Ext/Dig/Prep: 03/26/2000 Date Analyzed: 03/31/2000 Result Units: %

Analyte Name	Analytical Results	Reported Detection Limits
C(39)	38	
o-Terphenyl	35	

ANALYSIS: X VOC QC Surrogates (Waters) Method Ref: 8260B

Date Ext/Dig/Prep: 03/23/2000 Date Analyzed: 03/23/2000 Result Units: %

Analyte Name	Analytical Results	Reported Detection Limits
1,2-Dichloroethane-d4	112	
4-Bromofluorobenzene	107	
Toluene-d8	101	

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LABORATORY REPORT

Accura Sample ID #: AB89501 **Accura Project #: 23975**

Client: CH2M HILL - CCI Date Sampled: 03/20/2000

Client Contact: SAM ROSS Date Received: 03/21/2000

Client Project Number: 083 CTO 029 Date Reported: 04/07/2000

Client Project Name: 103 RD ST. BASELINE G.W. SAMPLING Sample Matrix: WATER

Client Sample ID: 029-SMW05-Q1-00

ANALYSIS: Metals - Lead Method Ref: 3010A/6010B

Date Ext/Dig/Prep: 03/23/2000 Date Analyzed: 03/29/2000 Result Units: mg/L

Analyte Name	Analytical Results	Reported Detection Limits
Lead	0.025	0.010

ANALYSIS: PAH's by HPLC Method Ref: 8310

Date Ext/Dig/Prep: 03/24/2000 Date Analyzed: 03/26/2000 Result Units: ug/L

Analyte Name	Analytical Results	Reported Detection Limits
Acenaphthene	<RDL	1.0
Acenaphthylene	<RDL	2.1
Anthracene	<RDL	0.7
Benzo(a)anthracene	<RDL	0.1
Benzo(a)pyrene	<RDL	0.1
Benzo(b)fluoranthene	<RDL	0.2
Benzo(g,h,i)perylene	<RDL	0.8
Benzo(k)fluoranthene	<RDL	0.2
Chrysene	<RDL	0.2
Dibenzo(a,h)anthracene	<RDL	0.3
Fluoranthene	<RDL	0.2
Fluorene	<RDL	0.2
Indeno(1,2,3-cd)pyrene	<RDL	0.4
Naphthalene	<RDL	1.0
Phenanthrene	<RDL	0.7
Pyrene	<RDL	0.3

ANALYSIS: Petroleum Range Organics (PRO) Method Ref: FL-PRO

Date Ext/Dig/Prep: 03/26/2000 Date Analyzed: 03/31/2000 Result Units: mg/L

Analyte Name	Analytical Results	Reported Detection Limits
Petroleum Range Organics (PRO)	11	5.0

ANALYSIS: VOC's Navy Method Ref: 8260B

Date Ext/Dig/Prep: 03/23/2000 Date Analyzed: 03/23/2000 Result Units: ug/L

Analyte Name	Analytical Results	Reported Detection Limits
1,1,1,2-Tetrachloroethane	<RDL	2.5
1,1,1-Trichloroethane	<RDL	4
1,1,2,2-Tetrachloroethane	<RDL	2
1,1,2-Trichloroethane	<RDL	5
1,1-Dichloroethane	<RDL	2
1,1-Dichloroethene	<RDL	6
1,2,3-Trichlorobenzene	<RDL	1.5
1,2,3-Trichloropropane	<RDL	16
1,2,4-Trichlorobenzene	5.5	2
1,2,4-Trimethylbenzene	<RDL	6.5
1,2-Dibromo-3-chloropropane	<RDL	13
1,2-Dichlorobenzene	<RDL	1.5
1,2-Dichloroethane	<RDL	3
1,2-Dichloropropane	<RDL	2
1,2-Ethylene Dibromide	<RDL	3
1,3,5-Trimethylbenzene	<RDL	2.5
1,3-Dichlorobenzene	<RDL	6
1,3-Dichloropropane	<RDL	2
1,4-Dichlorobenzene	<RDL	1.5
2,2-Dichloropropane	<RDL	17.5
2-Chlorotoluene	<RDL	2
4-Chlorotoluene	<RDL	3
Benzene	<RDL	2
Bromobenzene	<RDL	1.5
Bromochloromethane	<RDL	2
Bromodichloromethane	<RDL	4
Bromoform	<RDL	6
Bromomethane	<RDL	5.5
Carbon tetrachloride	<RDL	10.5
Chlorobenzene	<RDL	2
Chloroethane	<RDL	5
Chloroform	<RDL	1.5
Chloromethane	<RDL	6.5
cis-1,2-Dichloroethene	<RDL	6
cis-1,3-Dichloropropene	<RDL	5
Dibromochloromethane	<RDL	2.5
Dibromomethane	<RDL	12
Dichlorodifluoromethane	<RDL	5
Ethylbenzene	<RDL	3
Hexachlorobutadiene	<RDL	5.5
Isopropylbenzene	<RDL	2.5
Methylene chloride	<RDL	1.5
n-Butylbenzene	<RDL	5.5
n-Propylbenzene	<RDL	2
Naphthalene	9.8	2
p-Isopropyltoluene	<RDL	6

Sec-Butylbenzene	2.1J	6.5
Styrene	<RDL	2
Tert-Butylbenzene	<RDL	7
Tetrachloroethylene	<RDL	7
Toluene	<RDL	5.5
Total Xylenes	<RDL	5
trans-1,2-Dichloroethene	<RDL	3
trans-1,3-Dichloropropene	<RDL	5
Trichloroethylene	<RDL	5
Trichlorofluoromethane	<RDL	4
Vinyl chloride	<RDL	5.5

ANALYSIS: X PAH QC Surrogates (Liquid) Method Ref: 8310

Date Ext/Dig/Prep: 03/24/2000 Date Analyzed: 03/26/2000 Result Units: %

Analyte Name	Analytical Results	Reported Detection Limits
p-terphenyl d14	46	

ANALYSIS: X PRO QC Surrogates (Water) Method Ref: FL-PRO

Date Ext/Dig/Prep: 03/26/2000 Date Analyzed: 03/31/2000 Result Units: %

Analyte Name	Analytical Results	Reported Detection Limits
C(39)	37	
o-Terphenyl	44	

ANALYSIS: X VOC QC Surrogates (Waters) Method Ref: 8260B

Date Ext/Dig/Prep: 03/23/2000 Date Analyzed: 03/23/2000 Result Units: %

Analyte Name	Analytical Results	Reported Detection Limits
1,2-Dichloroethane-d4	100	
4-Bromofluorobenzene	121	
Toluene-d8	98	

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LABORATORY REPORT

Accura Sample ID #: AB89502 **Accura Project #: 23975**

Client: CH2M HILL - CCI Date Sampled: 03/20/2000

Client Contact: SAM ROSS Date Received: 03/21/2000

Client Project Number: 083 CTO 029 Date Reported: 04/07/2000

Client Project Name: 103 RD ST. BASELINE G.W. SAMPLING Sample Matrix: WATER

Client Sample ID: 029-SMW06-Q1-00

ANALYSIS: Metals - Lead Method Ref: 3010A/6010B

Date Ext/Dig/Prep: 03/23/2000 Date Analyzed: 03/29/2000 Result Units: mg/L

Analyte Name	Analytical Results	Reported Detection Limits
Lead	0.033	0.010

ANALYSIS: PAH's by HPLC Method Ref: 8310

Date Ext/Dig/Prep: 03/24/2000 Date Analyzed: 03/26/2000 Result Units: ug/L

Analyte Name	Analytical Results	Reported Detection Limits
Acenaphthene	<RDL	1.0
Acenaphthylene	<RDL	2.1
Anthracene	<RDL	0.7
Benzo(a)anthracene	<RDL	0.1
Benzo(a)pyrene	<RDL	0.1
Benzo(b)fluoranthene	<RDL	0.2
Benzo(g,h,i)perylene	<RDL	0.8
Benzo(k)fluoranthene	<RDL	0.2
Chrysene	<RDL	0.2
Dibenzo(a,h)anthracene	<RDL	0.3
Fluoranthene	<RDL	0.2
Fluorene	<RDL	0.2
Indeno(1,2,3-cd)pyrene	<RDL	0.4
Naphthalene	8.9	1.0
Phenanthrene	<RDL	0.7
Pyrene	<RDL	0.3

ANALYSIS: Petroleum Range Organics (PRO) Method Ref: FL-PRO

Date Ext/Dig/Prep: 03/26/2000 Date Analyzed: 03/31/2000 Result Units: mg/L

Analyte Name	Analytical Results	Reported Detection Limits
Petroleum Range Organics (PRO)	0.66JB	1.0

ANALYSIS: VOC's Navy Method Ref: 8260B

Date Ext/Dig/Prep: 03/23/2000 Date Analyzed: 03/23/2000 Result Units: ug/L

Analyte Name	Analytical Results	Reported Detection Limits
1,1,1,2-Tetrachloroethane	<RDL	2.5
1,1,1-Trichloroethane	<RDL	4
1,1,2,2-Tetrachloroethane	<RDL	2
1,1,2-Trichloroethane	<RDL	5
1,1-Dichloroethane	<RDL	2
1,1-Dichloroethene	<RDL	6
1,2,3-Trichlorobenzene	<RDL	1.5
1,2,3-Trichloropropane	<RDL	16
1,2,4-Trichlorobenzene	<RDL	2
1,2,4-Trimethylbenzene	55	6.5
1,2-Dibromo-3-chloropropane	<RDL	13
1,2-Dichlorobenzene	<RDL	1.5
1,2-Dichloroethane	<RDL	3
1,2-Dichloropropane	<RDL	2
1,2-Ethylene Dibromide	<RDL	3
1,3,5-Trimethylbenzene	16	2.5
1,3-Dichlorobenzene	<RDL	6
1,3-Dichloropropane	<RDL	2
1,4-Dichlorobenzene	<RDL	1.5
2,2-Dichloropropane	<RDL	17.5
2-Chlorotoluene	<RDL	2
4-Chlorotoluene	<RDL	3
Benzene	<RDL	2
Bromobenzene	<RDL	1.5
Bromochloromethane	<RDL	2
Bromodichloromethane	<RDL	4
Bromoform	<RDL	6
Bromomethane	<RDL	5.5
Carbon tetrachloride	<RDL	10.5
Chlorobenzene	<RDL	2
Chloroethane	<RDL	5
Chloroform	<RDL	1.5
Chloromethane	<RDL	6.5
cis-1,2-Dichloroethene	<RDL	6
cis-1,3-Dichloropropene	<RDL	5
Dibromochloromethane	<RDL	2.5
Dibromomethane	<RDL	12
Dichlorodifluoromethane	<RDL	5
Ethylbenzene	17	3
Hexachlorobutadiene	<RDL	5.5
Isopropylbenzene	8.7	2.5
Methylene chloride	1.6B	1.5
n-Butylbenzene	<RDL	5.5
n-Propylbenzene	8.9	2
Naphthalene	22	2
p-Isopropyltoluene	2.2J	6

Sec-Butylbenzene	3.4J	6.5
Styrene	<RDL	2
Tert-Butylbenzene	<RDL	7
Tetrachloroethylene	<RDL	7
Toluene	<RDL	5.5
Total Xylenes	24	5
trans-1,2-Dichloroethene	<RDL	3
trans-1,3-Dichloropropene	<RDL	5
Trichloroethylene	<RDL	5
Trichlorofluoromethane	<RDL	4
Vinyl chloride	<RDL	5.5

ANALYSIS: X PAH QC Surrogates (Liquid) Method Ref: 8310

Date Ext/Dig/Prep: 03/24/2000 Date Analyzed: 03/26/2000 Result Units: %

Analyte Name	Analytical Results	Reported Detection Limits
p-terphenyl d14	66	

ANALYSIS: X PRO QC Surrogates (Water) Method Ref: FL-PRO

Date Ext/Dig/Prep: 03/26/2000 Date Analyzed: 03/31/2000 Result Units: %

Analyte Name	Analytical Results	Reported Detection Limits
C(39)	46	
o-Terphenyl	50	

ANALYSIS: X VOC QC Surrogates (Waters) Method Ref: 8260B

Date Ext/Dig/Prep: 03/23/2000 Date Analyzed: 03/23/2000 Result Units: %

Analyte Name	Analytical Results	Reported Detection Limits
1,2-Dichloroethane-d4	102	
4-Bromofluorobenzene	103	
Toluene-d8	97	

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LABORATORY REPORT

Accura Sample ID #: AB89503 **Accura Project #: 23975**

Client: CH2M HILL - CCI

Client Contact: SAM ROSS

Client Project Number: 083 CTO 029

Client Project Name: 103 RD ST. BASELINE G.W. SAMPLING

Client Sample ID: 029-SMW07-Q1-00

Date Sampled: 03/20/2000

Date Received: 03/21/2000

Date Reported: 04/07/2000

Sample Matrix: WATER

ANALYSIS: Metals - Lead Method Ref: 3010A/6010B

Date Ext/Dig/Prep: 03/23/2000 Date Analyzed: 03/29/2000 Result Units: mg/L

Analyte Name	Analytical Results	Reported Detection Limits
Lead	0.013	0.010

ANALYSIS: PAH's by HPLC Method Ref: 8310

Date Ext/Dig/Prep: 03/24/2000 Date Analyzed: 03/26/2000 Result Units: ug/L

Analyte Name	Analytical Results	Reported Detection Limits
Acenaphthene	<RDL	1.0
Acenaphthylene	<RDL	2.1
Anthracene	<RDL	0.7
Benzo(a)anthracene	<RDL	0.1
Benzo(a)pyrene	<RDL	0.1
Benzo(b)fluoranthene	<RDL	0.2
Benzo(g,h,i)perylene	<RDL	0.8
Benzo(k)fluoranthene	<RDL	0.2
Chrysene	<RDL	0.2
Dibenzo(a,h)anthracene	<RDL	0.3
Fluoranthene	<RDL	0.2
Fluorene	<RDL	0.2
Indeno(1,2,3-cd)pyrene	<RDL	0.4
Naphthalene	<RDL	1.0
Phenanthrene	<RDL	0.7
Pyrene	<RDL	0.3

ANALYSIS: Petroleum Range Organics (PRO) Method Ref: FL-PRO

Date Ext/Dig/Prep: 03/26/2000 Date Analyzed: 03/31/2000 Result Units: mg/L

Analyte Name	Analytical Results	Reported Detection Limits
Petroleum Range Organics (PRO)	0.72JB	1.0

ANALYSIS: VOC's Navy Method Ref: 8260B

Date Ext/Dig/Prep: 03/23/2000 Date Analyzed: 03/23/2000 Result Units: ug/L

Analyte Name	Analytical Results	Reported Detection Limits
1,1,1,2-Tetrachloroethane	<RDL	2.5
1,1,1-Trichloroethane	<RDL	4
1,1,2,2-Tetrachloroethane	<RDL	2
1,1,2-Trichloroethane	<RDL	5
1,1-Dichloroethane	<RDL	2
1,1-Dichloroethene	<RDL	6
1,2,3-Trichlorobenzene	<RDL	1.5
1,2,3-Trichloropropane	<RDL	16
1,2,4-Trichlorobenzene	<RDL	2
1,2,4-Trimethylbenzene	<RDL	6.5
1,2-Dibromo-3-chloropropane	<RDL	13
1,2-Dichlorobenzene	<RDL	1.5
1,2-Dichloroethane	<RDL	3
1,2-Dichloropropane	<RDL	2
1,2-Ethylene Dibromide	<RDL	3
1,3,5-Trimethylbenzene	<RDL	2.5
1,3-Dichlorobenzene	<RDL	6
1,3-Dichloropropane	<RDL	2
1,4-Dichlorobenzene	<RDL	1.5
2,2-Dichloropropane	<RDL	17.5
2-Chlorotoluene	<RDL	2
4-Chlorotoluene	<RDL	3
Benzene	<RDL	2
Bromobenzene	<RDL	1.5
Bromochloromethane	<RDL	2
Bromodichloromethane	<RDL	4
Bromoform	<RDL	6
Bromomethane	<RDL	5.5
Carbon tetrachloride	<RDL	10.5
Chlorobenzene	<RDL	2
Chloroethane	<RDL	5
Chloroform	<RDL	1.5
Chloromethane	<RDL	6.5
cis-1,2-Dichloroethene	<RDL	6
cis-1,3-Dichloropropene	<RDL	5
Dibromochloromethane	<RDL	2.5
Dibromomethane	<RDL	12
Dichlorodifluoromethane	<RDL	5
Ethylbenzene	<RDL	3
Hexachlorobutadiene	<RDL	5.5
Isopropylbenzene	<RDL	2.5
Methylene chloride	1.6B	1.5
n-Butylbenzene	<RDL	5.5
n-Propylbenzene	<RDL	2
Naphthalene	<RDL	2
p-Isopropyltoluene	<RDL	6

Sec-Butylbenzene	<RDL	6.5
Styrene	<RDL	2
Tert-Butylbenzene	<RDL	7
Tetrachloroethylene	<RDL	7
Toluene	<RDL	5.5
Total Xylenes	2.2J	5
trans-1,2-Dichloroethene	<RDL	3
trans-1,3-Dichloropropene	<RDL	5
Trichloroethylene	<RDL	5
Trichlorofluoromethane	<RDL	4
Vinyl chloride	<RDL	5.5

ANALYSIS: X PAH QC Surrogates (Liquid) Method Ref: 8310

Date Ext/Dig/Prep: 03/24/2000 Date Analyzed: 03/26/2000 Result Units: %

Analyte Name	Analytical Results	Reported Detection Limits
p-terphenyl d14	36	

ANALYSIS: X PRO QC Surrogates (Water) Method Ref: FL-PRO

Date Ext/Dig/Prep: 03/26/2000 Date Analyzed: 03/31/2000 Result Units: %

Analyte Name	Analytical Results	Reported Detection Limits
C(39)	34	
o-Terphenyl	60	

ANALYSIS: X VOC QC Surrogates (Waters) Method Ref: 8260B

Date Ext/Dig/Prep: 03/23/2000 Date Analyzed: 03/23/2000 Result Units: %

Analyte Name	Analytical Results	Reported Detection Limits
1,2-Dichloroethane-d4	98	
4-Bromofluorobenzene	103	
Toluene-d8	95	

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LABORATORY REPORT

Accura Sample ID #: AB89504 **Accura Project #: 23975**

Client: CH2M HILL - CCI Date Sampled: 03/20/2000

Client Contact: SAM ROSS Date Received: 03/21/2000

Client Project Number: 083 CTO 029 Date Reported: 04/07/2000

Client Project Name: 103 RD ST. BASELINE G.W. SAMPLING Sample Matrix: WATER

Client Sample ID: 029-SMW08-Q1-00

ANALYSIS: Metals - Lead Method Ref: 3010A/6010B

Date Ext/Dig/Prep: 03/23/2000 Date Analyzed: 03/29/2000 Result Units: mg/L

Analyte Name	Analytical Results	Reported Detection Limits
Lead	0.042	0.010

ANALYSIS: PAH's by HPLC Method Ref: 8310

Date Ext/Dig/Prep: 03/24/2000 Date Analyzed: 03/26/2000 Result Units: ug/L

Analyte Name	Analytical Results	Reported Detection Limits
Acenaphthene	<RDL	1.0
Acenaphthylene	<RDL	2.1
Anthracene	<RDL	0.7
Benzo(a)anthracene	<RDL	0.1
Benzo(a)pyrene	<RDL	0.1
Benzo(b)fluoranthene	<RDL	0.2
Benzo(g,h,i)perylene	<RDL	0.8
Benzo(k)fluoranthene	<RDL	0.2
Chrysene	<RDL	0.2
Dibenzo(a,h)anthracene	<RDL	0.3
Fluoranthene	<RDL	0.2
Fluorene	<RDL	0.2
Indeno(1,2,3-cd)pyrene	<RDL	0.4
Naphthalene	<RDL	1.0
Phenanthrene	<RDL	0.7
Pyrene	<RDL	0.3

ANALYSIS: Petroleum Range Organics (PRO) Method Ref: FL-PRO

Date Ext/Dig/Prep: 03/26/2000 Date Analyzed: 03/31/2000 Result Units: mg/L

Analyte Name	Analytical Results	Reported Detection Limits
Petroleum Range Organics (PRO)	0.54JB	1.0

ANALYSIS: VOC's Navy Method Ref: 8260B

Date Ext/Dig/Prep: 03/23/2000 Date Analyzed: 03/23/2000 Result Units: ug/L

Analyte Name	Analytical Results	Reported Detection Limits
1,1,1,2-Tetrachloroethane	<RDL	2.5
1,1,1-Trichloroethane	<RDL	4
1,1,2,2-Tetrachloroethane	<RDL	2
1,1,2-Trichloroethane	<RDL	5
1,1-Dichloroethane	<RDL	2
1,1-Dichloroethene	<RDL	6
1,2,3-Trichlorobenzene	<RDL	1.5
1,2,3-Trichloropropane	<RDL	16
1,2,4-Trichlorobenzene	<RDL	2
1,2,4-Trimethylbenzene	<RDL	6.5
1,2-Dibromo-3-chloropropane	<RDL	13
1,2-Dichlorobenzene	<RDL	1.5
1,2-Dichloroethane	<RDL	3
1,2-Dichloropropane	<RDL	2
1,2-Ethylene Dibromide	<RDL	3
1,3,5-Trimethylbenzene	<RDL	2.5
1,3-Dichlorobenzene	<RDL	6
1,3-Dichloropropane	<RDL	2
1,4-Dichlorobenzene	<RDL	1.5
2,2-Dichloropropane	<RDL	17.5
2-Chlorotoluene	<RDL	2
4-Chlorotoluene	<RDL	3
Benzene	<RDL	2
Bromobenzene	<RDL	1.5
Bromochloromethane	<RDL	2
Bromodichloromethane	<RDL	4
Bromoform	<RDL	6
Bromomethane	<RDL	5.5
Carbon tetrachloride	<RDL	10.5
Chlorobenzene	<RDL	2
Chloroethane	<RDL	5
Chloroform	<RDL	1.5
Chloromethane	<RDL	6.5
cis-1,2-Dichloroethene	<RDL	6
cis-1,3-Dichloropropene	<RDL	5
Dibromochloromethane	<RDL	2.5
Dibromomethane	<RDL	12
Dichlorodifluoromethane	<RDL	5
Ethylbenzene	<RDL	3
Hexachlorobutadiene	<RDL	5.5
Isopropylbenzene	<RDL	2.5
Methylene chloride	<RDL	1.5
n-Butylbenzene	<RDL	5.5
n-Propylbenzene	<RDL	2
Naphthalene	<RDL	2
p-Isopropyltoluene	<RDL	6

Sec-Butylbenzene	<RDL	6.5
Styrene	<RDL	2
Tert-Butylbenzene	<RDL	7
Tetrachloroethylene	<RDL	7
Toluene	<RDL	5.5
Total Xylenes	2.3J	5
trans-1,2-Dichloroethene	<RDL	3
trans-1,3-Dichloropropene	<RDL	5
Trichloroethylene	<RDL	5
Trichlorofluoromethane	<RDL	4
Vinyl chloride	<RDL	5.5

ANALYSIS: X PAH QC Surrogates (Liquid) Method Ref: 8310

Date Ext/Dig/Prep: 03/24/2000 Date Analyzed: 03/26/2000 Result Units: %

Analyte Name	Analytical Results	Reported Detection Limits
p-terphenyl d14	38	

ANALYSIS: X PRO QC Surrogates (Water) Method Ref: FL-PRO

Date Ext/Dig/Prep: 03/26/2000 Date Analyzed: 03/31/2000 Result Units: %

Analyte Name	Analytical Results	Reported Detection Limits
C(39)	30	
o-Terphenyl	43	

ANALYSIS: X VOC QC Surrogates (Waters) Method Ref: 8260B

Date Ext/Dig/Prep: 03/23/2000 Date Analyzed: 03/23/2000 Result Units: %

Analyte Name	Analytical Results	Reported Detection Limits
1,2-Dichloroethane-d4	96	
4-Bromofluorobenzene	98	
Toluene-d8	92	

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LABORATORY REPORT

Accura Sample ID #: AB89505 **Accura Project #: 23975**

Client: CH2M HILL - CCI Date Sampled: 03/20/2000

Client Contact: SAM ROSS Date Received: 03/21/2000

Client Project Number: 083 CTO 029 Date Reported: 04/07/2000

Client Project Name: 103 RD ST. BASELINE G.W. SAMPLING Sample Matrix: WATER

Client Sample ID: 029-SMW09-Q1-00

ANALYSIS: Metals - Lead Method Ref: 3010A/6010B

Date Ext/Dig/Prep: 03/23/2000 Date Analyzed: 03/29/2000 Result Units: mg/L

Analyte Name	Analytical Results	Reported Detection Limits
Lead	0.024	0.010

ANALYSIS: PAH's by HPLC Method Ref: 8310

Date Ext/Dig/Prep: 03/24/2000 Date Analyzed: 03/26/2000 Result Units: ug/L

Analyte Name	Analytical Results	Reported Detection Limits
Acenaphthene	<RDL	1.0
Acenaphthylene	<RDL	2.1
Anthracene	<RDL	0.7
Benzo(a)anthracene	<RDL	0.1
Benzo(a)pyrene	<RDL	0.1
Benzo(b)fluoranthene	<RDL	0.2
Benzo(g,h,i)perylene	<RDL	0.8
Benzo(k)fluoranthene	<RDL	0.2
Chrysene	<RDL	0.2
Dibenzo(a,h)anthracene	<RDL	0.3
Fluoranthene	<RDL	0.2
Fluorene	<RDL	0.2
Indeno(1,2,3-cd)pyrene	<RDL	0.4
Naphthalene	<RDL	1.0
Phenanthrene	<RDL	0.7
Pyrene	<RDL	0.3

ANALYSIS: Petroleum Range Organics (PRO) Method Ref: FL-PRO

Date Ext/Dig/Prep: 03/26/2000 Date Analyzed: 03/31/2000 Result Units: mg/L

Analyte Name	Analytical Results	Reported Detection Limits
Petroleum Range Organics (PRO)	0.70JB	1.0

ANALYSIS: VOC's Navy Method Ref: 8260B

Date Ext/Dig/Prep: 03/23/2000 Date Analyzed: 03/23/2000 Result Units: ug/L

Analyte Name	Analytical Results	Reported Detection Limits
1,1,1,2-Tetrachloroethane	<RDL	2.5
1,1,1-Trichloroethane	<RDL	4
1,1,2,2-Tetrachloroethane	<RDL	2
1,1,2-Trichloroethane	<RDL	5
1,1-Dichloroethane	<RDL	2
1,1-Dichloroethene	<RDL	6
1,2,3-Trichlorobenzene	<RDL	1.5
1,2,3-Trichloropropane	<RDL	16
1,2,4-Trichlorobenzene	<RDL	2
1,2,4-Trimethylbenzene	<RDL	6.5
1,2-Dibromo-3-chloropropane	<RDL	13
1,2-Dichlorobenzene	<RDL	1.5
1,2-Dichloroethane	<RDL	3
1,2-Dichloropropane	<RDL	2
1,2-Ethylene Dibromide	<RDL	3
1,3,5-Trimethylbenzene	<RDL	2.5
1,3-Dichlorobenzene	<RDL	6
1,3-Dichloropropane	<RDL	2
1,4-Dichlorobenzene	<RDL	1.5
2,2-Dichloropropane	<RDL	17.5
2-Chlorotoluene	<RDL	2
4-Chlorotoluene	<RDL	3
Benzene	<RDL	2
Bromobenzene	<RDL	1.5
Bromochloromethane	<RDL	2
Bromodichloromethane	<RDL	4
Bromoform	<RDL	6
Bromomethane	<RDL	5.5
Carbon tetrachloride	<RDL	10.5
Chlorobenzene	<RDL	2
Chloroethane	<RDL	5
Chloroform	<RDL	1.5
Chloromethane	<RDL	6.5
cis-1,2-Dichloroethene	<RDL	6
cis-1,3-Dichloropropene	<RDL	5
Dibromochloromethane	<RDL	2.5
Dibromomethane	<RDL	12
Dichlorodifluoromethane	<RDL	5
Ethylbenzene	<RDL	3
Hexachlorobutadiene	<RDL	5.5
Isopropylbenzene	<RDL	2.5
Methylene chloride	1.2JB	1.5
n-Butylbenzene	<RDL	5.5
n-Propylbenzene	<RDL	2
Naphthalene	<RDL	2
p-Isopropyltoluene	<RDL	6

Sec-Butylbenzene	<RDL	6.5
Styrene	<RDL	2
Tert-Butylbenzene	<RDL	7
Tetrachloroethylene	<RDL	7
Toluene	<RDL	5.5
Total Xylenes	1.1J	5
trans-1,2-Dichloroethene	<RDL	3
trans-1,3-Dichloropropene	<RDL	5
Trichloroethylene	<RDL	5
Trichlorofluoromethane	<RDL	4
Vinyl chloride	<RDL	5.5

ANALYSIS: X PAH QC Surrogates (Liquid) Method Ref: 8310

Date Ext/Dig/Prep: 03/24/2000 Date Analyzed: 03/26/2000 Result Units: %

Analyte Name	Analytical Results	Reported Detection Limits
p-terphenyl d14	60	

ANALYSIS: X PRO QC Surrogates (Water) Method Ref: FL-PRO

Date Ext/Dig/Prep: 03/26/2000 Date Analyzed: 03/31/2000 Result Units: %

Analyte Name	Analytical Results	Reported Detection Limits
C(39)	25	
o-Terphenyl	55	

ANALYSIS: X VOC QC Surrogates (Waters) Method Ref: 8260B

Date Ext/Dig/Prep: 03/23/2000 Date Analyzed: 03/23/2000 Result Units: %

Analyte Name	Analytical Results	Reported Detection Limits
1,2-Dichloroethane-d4	97	
4-Bromofluorobenzene	98	
Toluene-d8	96	

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LABORATORY REPORT

Accura Sample ID #: AB89506 **Accura Project #: 23975**

Client: CH2M HILL - CCI Date Sampled: 03/20/2000

Client Contact: SAM ROSS Date Received: 03/21/2000

Client Project Number: 083 CTO 029 Date Reported: 04/07/2000

Client Project Name: 103 RD ST. BASELINE G.W. SAMPLING Sample Matrix: WATER

Client Sample ID: 029-SMW10-Q1-00

ANALYSIS: Metals - Lead Method Ref: 3010A/6010B

Date Ext/Dig/Prep: 03/23/2000 Date Analyzed: 03/29/2000 Result Units: mg/L

Analyte Name	Analytical Results	Reported Detection Limits
Lead	0.052	0.010

ANALYSIS: PAH's by HPLC Method Ref: 8310

Date Ext/Dig/Prep: 03/24/2000 Date Analyzed: 03/26/2000 Result Units: ug/L

Analyte Name	Analytical Results	Reported Detection Limits
Acenaphthene	<RDL	1.0
Acenaphthylene	<RDL	2.1
Anthracene	<RDL	0.7
Benzo(a)anthracene	<RDL	0.1
Benzo(a)pyrene	<RDL	0.1
Benzo(b)fluoranthene	<RDL	0.2
Benzo(g,h,i)perylene	<RDL	0.8
Benzo(k)fluoranthene	<RDL	0.2
Chrysene	<RDL	0.2
Dibenzo(a,h)anthracene	<RDL	0.3
Fluoranthene	<RDL	0.2
Fluorene	<RDL	0.2
Indeno(1,2,3-cd)pyrene	<RDL	0.4
Naphthalene	<RDL	1.0
Phenanthrene	<RDL	0.7
Pyrene	<RDL	0.3

ANALYSIS: Petroleum Range Organics (PRO) Method Ref: FL-PRO

Date Ext/Dig/Prep: 03/26/2000 Date Analyzed: 03/31/2000 Result Units: mg/L

Analyte Name	Analytical Results	Reported Detection Limits
Petroleum Range Organics (PRO)	0.43JB	1.0

ANALYSIS: VOC's Navy Method Ref: 8260B

Date Ext/Dig/Prep: 03/23/2000 Date Analyzed: 03/23/2000 Result Units: ug/L

Analyte Name	Analytical Results	Reported Detection Limits
1,1,1,2-Tetrachloroethane	<RDL	2.5
1,1,1-Trichloroethane	<RDL	4
1,1,2,2-Tetrachloroethane	<RDL	2
1,1,2-Trichloroethane	<RDL	5
1,1-Dichloroethane	<RDL	2
1,1-Dichloroethene	<RDL	6
1,2,3-Trichlorobenzene	<RDL	1.5
1,2,3-Trichloropropane	<RDL	16
1,2,4-Trichlorobenzene	<RDL	2
1,2,4-Trimethylbenzene	<RDL	6.5
1,2-Dibromo-3-chloropropane	<RDL	13
1,2-Dichlorobenzene	<RDL	1.5
1,2-Dichloroethane	<RDL	3
1,2-Dichloropropane	<RDL	2
1,2-Ethylene Dibromide	<RDL	3
1,3,5-Trimethylbenzene	<RDL	2.5
1,3-Dichlorobenzene	<RDL	6
1,3-Dichloropropane	<RDL	2
1,4-Dichlorobenzene	<RDL	1.5
2,2-Dichloropropane	<RDL	17.5
2-Chlorotoluene	<RDL	2
4-Chlorotoluene	<RDL	3
Benzene	<RDL	2
Bromobenzene	<RDL	1.5
Bromochloromethane	<RDL	2
Bromodichloromethane	<RDL	4
Bromoform	<RDL	6
Bromomethane	<RDL	5.5
Carbon tetrachloride	<RDL	10.5
Chlorobenzene	<RDL	2
Chloroethane	<RDL	5
Chloroform	<RDL	1.5
Chloromethane	<RDL	6.5
cis-1,2-Dichloroethene	<RDL	6
cis-1,3-Dichloropropene	<RDL	5
Dibromochloromethane	<RDL	2.5
Dibromomethane	<RDL	12
Dichlorodifluoromethane	<RDL	5
Ethylbenzene	<RDL	3
Hexachlorobutadiene	<RDL	5.5
Isopropylbenzene	<RDL	2.5
Methylene chloride	<RDL	1.5
n-Butylbenzene	<RDL	5.5
n-Propylbenzene	<RDL	2
Naphthalene	<RDL	2
p-Isopropyltoluene	<RDL	6

Sec-Butylbenzene	<RDL	6.5
Styrene	<RDL	2
Tert-Butylbenzene	<RDL	7
Tetrachloroethylene	<RDL	7
Toluene	<RDL	5.5
Total Xylenes	2.7J	5
trans-1,2-Dichloroethene	<RDL	3
trans-1,3-Dichloropropene	<RDL	5
Trichloroethylene	<RDL	5
Trichlorofluoromethane	<RDL	4
Vinyl chloride	<RDL	5.5

ANALYSIS: X PAH QC Surrogates (Liquid) Method Ref: 8310

Date Ext/Dig/Prep: 03/24/2000 Date Analyzed: 03/26/2000 Result Units: %

Analyte Name	Analytical Results	Reported Detection Limits
p-terphenyl d14	42	

ANALYSIS: X PRO QC Surrogates (Water) Method Ref: FL-PRO

Date Ext/Dig/Prep: 03/26/2000 Date Analyzed: 03/31/2000 Result Units: %

Analyte Name	Analytical Results	Reported Detection Limits
C(39)	70	
o-Terphenyl	51	

ANALYSIS: X VOC QC Surrogates (Waters) Method Ref: 8260B

Date Ext/Dig/Prep: 03/23/2000 Date Analyzed: 03/23/2000 Result Units: %

Analyte Name	Analytical Results	Reported Detection Limits
1,2-Dichloroethane-d4	99	
4-Bromofluorobenzene	98	
Toluene-d8	95	

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LABORATORY REPORT

Accura Sample ID #: AB89507 **Accura Project #: 23975**

Client: CH2M HILL - CCI Date Sampled: 03/20/2000

Client Contact: SAM ROSS Date Received: 03/21/2000

Client Project Number: 083 CTO 029 Date Reported: 04/07/2000

Client Project Name: 103 RD ST. BASELINE G.W. SAMPLING Sample Matrix: WATER

Client Sample ID: 029-SMW11-Q1-00

ANALYSIS: Metals - Lead Method Ref: 3010A/6010B

Date Ext/Dig/Prep: 03/23/2000 Date Analyzed: 03/29/2000 Result Units: mg/L

Analyte Name	Analytical Results	Reported Detection Limits
Lead	0.054	0.010

ANALYSIS: PAH's by HPLC Method Ref: 8310

Date Ext/Dig/Prep: 03/24/2000 Date Analyzed: 03/26/2000 Result Units: ug/L

Analyte Name	Analytical Results	Reported Detection Limits
Acenaphthene	<RDL	1.0
Acenaphthylene	<RDL	2.1
Anthracene	<RDL	0.7
Benzo(a)anthracene	<RDL	0.1
Benzo(a)pyrene	<RDL	0.1
Benzo(b)fluoranthene	<RDL	0.2
Benzo(g,h,i)perylene	<RDL	0.8
Benzo(k)fluoranthene	<RDL	0.2
Chrysene	<RDL	0.2
Dibenzo(a,h)anthracene	<RDL	0.3
Fluoranthene	<RDL	0.2
Fluorene	<RDL	0.2
Indeno(1,2,3-cd)pyrene	<RDL	0.4
Naphthalene	20.6	5.1
Phenanthrene	<RDL	0.7
Pyrene	<RDL	0.3

ANALYSIS: Petroleum Range Organics (PRO) Method Ref: FL-PRO

Date Ext/Dig/Prep: 03/26/2000 Date Analyzed: 03/31/2000 Result Units: mg/L

Analyte Name	Analytical Results	Reported Detection Limits
Petroleum Range Organics (PRO)	3.6B	1.0

ANALYSIS: VOC's Navy Method Ref: 8260B

Date Ext/Dig/Prep: 03/23/2000 Date Analyzed: 03/23/2000 Result Units: ug/L

Analyte Name	Analytical Results	Reported Detection Limits
1,1,1,2-Tetrachloroethane	<RDL	2.5
1,1,1-Trichloroethane	<RDL	4
1,1,2,2-Tetrachloroethane	<RDL	2
1,1,2-Trichloroethane	<RDL	5
1,1-Dichloroethane	<RDL	2
1,1-Dichloroethene	<RDL	6
1,2,3-Trichlorobenzene	<RDL	1.5
1,2,3-Trichloropropane	<RDL	16
1,2,4-Trichlorobenzene	<RDL	2
1,2,4-Trimethylbenzene	250	65
1,2-Dibromo-3-chloropropane	<RDL	13
1,2-Dichlorobenzene	<RDL	1.5
1,2-Dichloroethane	<RDL	3
1,2-Dichloropropane	<RDL	2
1,2-Ethylene Dibromide	<RDL	3
1,3,5-Trimethylbenzene	52	2.5
1,3-Dichlorobenzene	<RDL	6
1,3-Dichloropropane	<RDL	2
1,4-Dichlorobenzene	<RDL	1.5
2,2-Dichloropropane	<RDL	17.5
2-Chlorotoluene	<RDL	2
4-Chlorotoluene	<RDL	3
Benzene	1.9J	2
Bromobenzene	<RDL	1.5
Bromochloromethane	<RDL	2
Bromodichloromethane	<RDL	4
Bromoform	<RDL	6
Bromomethane	<RDL	5.5
Carbon tetrachloride	<RDL	10.5
Chlorobenzene	<RDL	2
Chloroethane	<RDL	5
Chloroform	<RDL	1.5
Chloromethane	<RDL	6.5
cis-1,2-Dichloroethene	<RDL	6
cis-1,3-Dichloropropene	<RDL	5
Dibromochloromethane	<RDL	2.5
Dibromomethane	<RDL	12
Dichlorodifluoromethane	<RDL	5
Ethylbenzene	51	3
Hexachlorobutadiene	<RDL	5.5
Isopropylbenzene	26	2.5
Methylene chloride	<RDL	1.5
n-Butylbenzene	<RDL	5.5
n-Propylbenzene	28	2
Naphthalene	96	2
p-Isopropyltoluene	24	6

Sec-Butylbenzene	17	6.5
Styrene	<RDL	2
Tert-Butylbenzene	<RDL	7
Tetrachloroethylene	<RDL	7
Toluene	3.8J	5.5
Total Xylenes	220	5
trans-1,2-Dichloroethene	<RDL	3
trans-1,3-Dichloropropene	<RDL	5
Trichloroethylene	<RDL	5
Trichlorofluoromethane	<RDL	4
Vinyl chloride	<RDL	5.5

ANALYSIS: X PAH QC Surrogates (Liquid) Method Ref: 8310

Date Ext/Dig/Prep: 03/24/2000 Date Analyzed: 03/26/2000 Result Units: %

Analyte Name	Analytical Results	Reported Detection Limits
p-terphenyl d14	30	

ANALYSIS: X PRO QC Surrogates (Water) Method Ref: FL-PRO

Date Ext/Dig/Prep: 03/26/2000 Date Analyzed: 03/31/2000 Result Units: %

Analyte Name	Analytical Results	Reported Detection Limits
C(39)	49	
o-Terphenyl	43	

ANALYSIS: X VOC QC Surrogates (Waters) Method Ref: 8260B

Date Ext/Dig/Prep: 03/23/2000 Date Analyzed: 03/23/2000 Result Units: %

Analyte Name	Analytical Results	Reported Detection Limits
1,2-Dichloroethane-d4	99	
4-Bromofluorobenzene	103	
Toluene-d8	98	

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LABORATORY REPORT

Accura Sample ID #: AB89508 **Accura Project #: 23975**

Client: CH2M HILL - CCI Date Sampled: 03/20/2000

Client Contact: SAM ROSS Date Received: 03/21/2000

Client Project Number: 083 CTO 029 Date Reported: 04/07/2000

Client Project Name: 103 RD ST. BASELINE G.W. SAMPLING Sample Matrix: WATER

Client Sample ID: 029-SMW12-Q1-00

ANALYSIS: Metals - Lead Method Ref: 3010A/6010B

Date Ext/Dig/Prep: 03/23/2000 Date Analyzed: 03/29/2000 Result Units: mg/L

Analyte Name	Analytical Results	Reported Detection Limits
Lead	0.074	0.010

ANALYSIS: PAH's by HPLC Method Ref: 8310

Date Ext/Dig/Prep: 03/24/2000 Date Analyzed: 03/26/2000 Result Units: ug/L

Analyte Name	Analytical Results	Reported Detection Limits
Acenaphthene	<RDL	1.0
Acenaphthylene	<RDL	2.1
Anthracene	<RDL	0.7
Benzo(a)anthracene	<RDL	0.1
Benzo(a)pyrene	<RDL	0.1
Benzo(b)fluoranthene	<RDL	0.2
Benzo(g,h,i)perylene	<RDL	0.8
Benzo(k)fluoranthene	<RDL	0.2
Chrysene	<RDL	0.2
Dibenzo(a,h)anthracene	<RDL	0.3
Fluoranthene	<RDL	0.2
Fluorene	<RDL	0.2
Indeno(1,2,3-cd)pyrene	<RDL	0.4
Naphthalene	<RDL	1.0
Phenanthrene	<RDL	0.7
Pyrene	<RDL	0.3

ANALYSIS: Petroleum Range Organics (PRO) Method Ref: FL-PRO

Date Ext/Dig/Prep: 03/26/2000 Date Analyzed: 03/31/2000 Result Units: mg/L

Analyte Name	Analytical Results	Reported Detection Limits
Petroleum Range Organics (PRO)	0.70JB	1.0

ANALYSIS: VOC's Navy Method Ref: 8260B

Date Ext/Dig/Prep: 03/23/2000 Date Analyzed: 03/23/2000 Result Units: ug/L

Analyte Name	Analytical Results	Reported Detection Limits
1,1,1,2-Tetrachloroethane	<RDL	2.5
1,1,1-Trichloroethane	<RDL	4
1,1,2,2-Tetrachloroethane	<RDL	2
1,1,2-Trichloroethane	<RDL	5
1,1-Dichloroethane	<RDL	2
1,1-Dichloroethene	<RDL	6
1,2,3-Trichlorobenzene	<RDL	1.5
1,2,3-Trichloropropane	<RDL	16
1,2,4-Trichlorobenzene	<RDL	2
1,2,4-Trimethylbenzene	4.0J	6.5
1,2-Dibromo-3-chloropropane	<RDL	13
1,2-Dichlorobenzene	<RDL	1.5
1,2-Dichloroethane	<RDL	3
1,2-Dichloropropane	<RDL	2
1,2-Ethylene Dibromide	<RDL	3
1,3,5-Trimethylbenzene	1.4J	2.5
1,3-Dichlorobenzene	<RDL	6
1,3-Dichloropropane	<RDL	2
1,4-Dichlorobenzene	<RDL	1.5
2,2-Dichloropropane	<RDL	17.5
2-Chlorotoluene	<RDL	2
4-Chlorotoluene	<RDL	3
Benzene	<RDL	2
Bromobenzene	<RDL	1.5
Bromochloromethane	<RDL	2
Bromodichloromethane	<RDL	4
Bromoform	<RDL	6
Bromomethane	<RDL	5.5
Carbon tetrachloride	<RDL	10.5
Chlorobenzene	<RDL	2
Chloroethane	<RDL	5
Chloroform	<RDL	1.5
Chloromethane	<RDL	6.5
cis-1,2-Dichloroethene	<RDL	6
cis-1,3-Dichloropropene	<RDL	5
Dibromochloromethane	<RDL	2.5
Dibromomethane	<RDL	12
Dichlorodifluoromethane	<RDL	5
Ethylbenzene	<RDL	3
Hexachlorobutadiene	<RDL	5.5
Isopropylbenzene	<RDL	2.5
Methylene chloride	3.7B	1.5
n-Butylbenzene	<RDL	5.5
n-Propylbenzene	<RDL	2
Naphthalene	6.3	2
p-Isopropyltoluene	<RDL	6

Sec-Butylbenzene	<RDL	6.5
Styrene	<RDL	2
Tert-Butylbenzene	<RDL	7
Tetrachloroethylene	<RDL	7
Toluene	<RDL	5.5
Total Xylenes	2.3J	5
trans-1,2-Dichloroethene	<RDL	3
trans-1,3-Dichloropropene	<RDL	5
Trichloroethylene	<RDL	5
Trichlorofluoromethane	<RDL	4
Vinyl chloride	<RDL	5.5

ANALYSIS: X PAH QC Surrogates (Liquid) Method Ref: 8310

Date Ext/Dig/Prep: 03/24/2000 Date Analyzed: 03/26/2000 Result Units: %

Analyte Name	Analytical Results	Reported Detection Limits
p-terphenyl d14	42	

ANALYSIS: X PRO QC Surrogates (Water) Method Ref: FL-PRO

Date Ext/Dig/Prep: 03/26/2000 Date Analyzed: 03/31/2000 Result Units: %

Analyte Name	Analytical Results	Reported Detection Limits
C(39)	51	
o-Terphenyl	43	

ANALYSIS: X VOC QC Surrogates (Waters) Method Ref: 8260B

Date Ext/Dig/Prep: 03/23/2000 Date Analyzed: 03/23/2000 Result Units: %

Analyte Name	Analytical Results	Reported Detection Limits
1,2-Dichloroethane-d4	106	
4-Bromofluorobenzene	105	
Toluene-d8	97	

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LABORATORY REPORT

Accura Sample ID #: AB89509 **Accura Project #: 23975**

Client: CH2M HILL - CCI Date Sampled: 03/20/2000

Client Contact: SAM ROSS Date Received: 03/21/2000

Client Project Number: 083 CTO 029 Date Reported: 04/07/2000

Client Project Name: 103 RD ST. BASELINE G.W. SAMPLING Sample Matrix: WATER

Client Sample ID: 029-DMW01-Q1-00

ANALYSIS: Metals - Lead Method Ref: 3010A/6010B

Date Ext/Dig/Prep: 03/23/2000 Date Analyzed: 03/29/2000 Result Units: mg/L

Analyte Name	Analytical Results	Reported Detection Limits
Lead	<RDL	0.010

ANALYSIS: PAH's by HPLC Method Ref: 8310

Date Ext/Dig/Prep: 03/24/2000 Date Analyzed: 03/26/2000 Result Units: ug/L

Analyte Name	Analytical Results	Reported Detection Limits
Acenaphthene	<RDL	1.0
Acenaphthylene	<RDL	2.1
Anthracene	<RDL	0.7
Benzo(a)anthracene	<RDL	0.1
Benzo(a)pyrene	<RDL	0.1
Benzo(b)fluoranthene	<RDL	0.2
Benzo(g,h,i)perylene	<RDL	0.8
Benzo(k)fluoranthene	<RDL	0.2
Chrysene	<RDL	0.2
Dibenzo(a,h)anthracene	<RDL	0.3
Fluoranthene	<RDL	0.2
Fluorene	<RDL	0.2
Indeno(1,2,3-cd)pyrene	<RDL	0.4
Naphthalene	<RDL	1.0
Phenanthrene	<RDL	0.7
Pyrene	<RDL	0.3

ANALYSIS: Petroleum Range Organics (PRO) Method Ref: FL-PRO

Date Ext/Dig/Prep: 03/26/2000 Date Analyzed: 03/31/2000 Result Units: mg/L

Analyte Name	Analytical Results	Reported Detection Limits
Petroleum Range Organics (PRO)	0.48JB	1.0

ANALYSIS: VOC's Navy Method Ref: 8260B

Date Ext/Dig/Prep: 03/23/2000 Date Analyzed: 03/23/2000 Result Units: ug/L

Analyte Name	Analytical Results	Reported Detection Limits
1,1,1,2-Tetrachloroethane	<RDL	2.5
1,1,1-Trichloroethane	<RDL	4
1,1,2,2-Tetrachloroethane	<RDL	2
1,1,2-Trichloroethane	<RDL	5
1,1-Dichloroethane	<RDL	2
1,1-Dichloroethene	<RDL	6
1,2,3-Trichlorobenzene	<RDL	1.5
1,2,3-Trichloropropane	<RDL	16
1,2,4-Trichlorobenzene	<RDL	2
1,2,4-Trimethylbenzene	<RDL	6.5
1,2-Dibromo-3-chloropropane	<RDL	13
1,2-Dichlorobenzene	<RDL	1.5
1,2-Dichloroethane	<RDL	3
1,2-Dichloropropane	<RDL	2
1,2-Ethylene Dibromide	<RDL	3
1,3,5-Trimethylbenzene	<RDL	2.5
1,3-Dichlorobenzene	<RDL	6
1,3-Dichloropropane	<RDL	2
1,4-Dichlorobenzene	<RDL	1.5
2,2-Dichloropropane	<RDL	17.5
2-Chlorotoluene	<RDL	2
4-Chlorotoluene	<RDL	3
Benzene	<RDL	2
Bromobenzene	<RDL	1.5
Bromochloromethane	<RDL	2
Bromodichloromethane	<RDL	4
Bromoform	<RDL	6
Bromomethane	<RDL	5.5
Carbon tetrachloride	<RDL	10.5
Chlorobenzene	<RDL	2
Chloroethane	<RDL	5
Chloroform	<RDL	1.5
Chloromethane	<RDL	6.5
cis-1,2-Dichloroethene	<RDL	6
cis-1,3-Dichloropropene	<RDL	5
Dibromochloromethane	<RDL	2.5
Dibromomethane	<RDL	12
Dichlorodifluoromethane	<RDL	5
Ethylbenzene	<RDL	3
Hexachlorobutadiene	<RDL	5.5
Isopropylbenzene	<RDL	2.5
Methylene chloride	<RDL	1.5
n-Butylbenzene	<RDL	5.5
n-Propylbenzene	<RDL	2
Naphthalene	<RDL	2
p-Isopropyltoluene	<RDL	6

Sec-Butylbenzene	<RDL	6.5
Styrene	<RDL	2
Tert-Butylbenzene	<RDL	7
Tetrachloroethylene	<RDL	7
Toluene	<RDL	5.5
Total Xylenes	1.8J	5
trans-1,2-Dichloroethene	<RDL	3
trans-1,3-Dichloropropene	<RDL	5
Trichloroethylene	<RDL	5
Trichlorofluoromethane	<RDL	4
Vinyl chloride	<RDL	5.5

ANALYSIS: X PAH QC Surrogates (Liquid) Method Ref: 8310

Date Ext/Dig/Prep: 03/24/2000 Date Analyzed: 03/26/2000 Result Units: %

Analyte Name	Analytical Results	Reported Detection Limits
p-terphenyl d14	38	

ANALYSIS: X PRO QC Surrogates (Water) Method Ref: FL-PRO

Date Ext/Dig/Prep: 03/26/2000 Date Analyzed: 03/31/2000 Result Units: %

Analyte Name	Analytical Results	Reported Detection Limits
C(39)	18	
o-Terphenyl	55	

ANALYSIS: X VOC QC Surrogates (Waters) Method Ref: 8260B

Date Ext/Dig/Prep: 03/23/2000 Date Analyzed: 03/23/2000 Result Units: %

Analyte Name	Analytical Results	Reported Detection Limits
1,2-Dichloroethane-d4	105	
4-Bromofluorobenzene	102	
Toluene-d8	96	

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LABORATORY REPORT

Accura Sample ID #: AB89510 **Accura Project #: 23975**

Client: CH2M HILL - CCI Date Sampled: 03/20/2000

Client Contact: SAM ROSS Date Received: 03/21/2000

Client Project Number: 083 CTO 029 Date Reported: 04/07/2000

Client Project Name: 103 RD ST. BASELINE G.W. SAMPLING Sample Matrix: WATER

Client Sample ID: 029-DUP01-Q1-00

ANALYSIS: Metals - Lead Method Ref: 3010A/6010B

Date Ext/Dig/Prep: 03/23/2000 Date Analyzed: 03/29/2000 Result Units: mg/L

Analyte Name	Analytical Results	Reported Detection Limits
Lead	0.032	0.010

ANALYSIS: PAH's by HPLC Method Ref: 8310

Date Ext/Dig/Prep: 03/24/2000 Date Analyzed: 03/26/2000 Result Units: ug/L

Analyte Name	Analytical Results	Reported Detection Limits
Acenaphthene	<RDL	1.0
Acenaphthylene	<RDL	2.1
Anthracene	<RDL	0.7
Benzo(a)anthracene	<RDL	0.1
Benzo(a)pyrene	<RDL	0.1
Benzo(b)fluoranthene	<RDL	0.2
Benzo(g,h,i)perylene	<RDL	0.8
Benzo(k)fluoranthene	<RDL	0.2
Chrysene	<RDL	0.2
Dibenzo(a,h)anthracene	<RDL	0.3
Fluoranthene	<RDL	0.2
Fluorene	<RDL	0.2
Indeno(1,2,3-cd)pyrene	<RDL	0.4
Naphthalene	<RDL	1.0
Phenanthrene	<RDL	0.7
Pyrene	<RDL	0.3

ANALYSIS: Petroleum Range Organics (PRO) Method Ref: FL-PRO

Date Ext/Dig/Prep: 03/26/2000 Date Analyzed: 03/31/2000 Result Units: mg/L

Analyte Name	Analytical Results	Reported Detection Limits
Petroleum Range Organics (PRO)	15	5.0

ANALYSIS: VOC's Navy Method Ref: 8260B

Date Ext/Dig/Prep: 03/23/2000 Date Analyzed: 03/23/2000 Result Units: ug/L

Analyte Name	Analytical Results	Reported Detection Limits
1,1,1,2-Tetrachloroethane	<RDL	2.5
1,1,1-Trichloroethane	<RDL	4
1,1,2,2-Tetrachloroethane	<RDL	2
1,1,2-Trichloroethane	<RDL	5
1,1-Dichloroethane	<RDL	2
1,1-Dichloroethene	<RDL	6
1,2,3-Trichlorobenzene	<RDL	1.5
1,2,3-Trichloropropane	<RDL	16
1,2,4-Trichlorobenzene	<RDL	2
1,2,4-Trimethylbenzene	<RDL	6.5
1,2-Dibromo-3-chloropropane	<RDL	13
1,2-Dichlorobenzene	<RDL	1.5
1,2-Dichloroethane	<RDL	3
1,2-Dichloropropane	<RDL	2
1,2-Ethylene Dibromide	<RDL	3
1,3,5-Trimethylbenzene	<RDL	2.5
1,3-Dichlorobenzene	<RDL	6
1,3-Dichloropropane	<RDL	2
1,4-Dichlorobenzene	<RDL	1.5
2,2-Dichloropropane	<RDL	17.5
2-Chlorotoluene	<RDL	2
4-Chlorotoluene	<RDL	3
Benzene	<RDL	2
Bromobenzene	<RDL	1.5
Bromochloromethane	<RDL	2
Bromodichloromethane	<RDL	4
Bromoform	<RDL	6
Bromomethane	<RDL	5.5
Carbon tetrachloride	<RDL	10.5
Chlorobenzene	<RDL	2
Chloroethane	<RDL	5
Chloroform	<RDL	1.5
Chloromethane	<RDL	6.5
cis-1,2-Dichloroethene	<RDL	6
cis-1,3-Dichloropropene	<RDL	5
Dibromochloromethane	<RDL	2.5
Dibromomethane	<RDL	12
Dichlorodifluoromethane	<RDL	5
Ethylbenzene	<RDL	3
Hexachlorobutadiene	<RDL	5.5
Isopropylbenzene	<RDL	2.5
Methylene chloride	<RDL	1.5
n-Butylbenzene	<RDL	5.5
n-Propylbenzene	<RDL	2
Naphthalene	6.2	2
p-Isopropyltoluene	<RDL	6

Sec-Butylbenzene	1.6J	6.5
Styrene	<RDL	2
Tert-Butylbenzene	<RDL	7
Tetrachloroethylene	<RDL	7
Toluene	<RDL	5.5
Total Xylenes	1.9J	5
trans-1,2-Dichloroethene	<RDL	3
trans-1,3-Dichloropropene	<RDL	5
Trichloroethylene	<RDL	5
Trichlorofluoromethane	<RDL	4
Vinyl chloride	<RDL	5.5

ANALYSIS: X PAH QC Surrogates (Liquid) Method Ref: 8310

Date Ext/Dig/Prep: 03/24/2000 Date Analyzed: 03/26/2000 Result Units: %

Analyte Name	Analytical Results	Reported Detection Limits
p-terphenyl d14	76	

ANALYSIS: X PRO QC Surrogates (Water) Method Ref: FL-PRO

Date Ext/Dig/Prep: 03/26/2000 Date Analyzed: 03/31/2000 Result Units: %

Analyte Name	Analytical Results	Reported Detection Limits
C(39)	30	
o-Terphenyl	39	

ANALYSIS: X VOC QC Surrogates (Waters) Method Ref: 8260B

Date Ext/Dig/Prep: 03/23/2000 Date Analyzed: 03/23/2000 Result Units: %

Analyte Name	Analytical Results	Reported Detection Limits
1,2-Dichloroethane-d4	103	
4-Bromofluorobenzene	110	
Toluene-d8	94	

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LABORATORY REPORT

Accura Sample ID #: AB89511 **Accura Project #: 23975**

Client: CH2M HILL - CCI Date Sampled: 03/20/2000

Client Contact: SAM ROSS Date Received: 03/21/2000

Client Project Number: 083 CTO 029 Date Reported: 04/07/2000

Client Project Name: 103 RD ST. BASELINE G.W. SAMPLING Sample Matrix: WATER

Client Sample ID: 029-DUP02-Q1-00

ANALYSIS: Metals - Lead Method Ref: 3010A/6010B

Date Ext/Dig/Prep: 03/23/2000 Date Analyzed: 03/30/2000 Result Units: mg/L

Analyte Name	Analytical Results	Reported Detection Limits
Lead	<RDL	0.010

ANALYSIS: PAH's by HPLC Method Ref: 8310

Date Ext/Dig/Prep: 03/24/2000 Date Analyzed: 03/26/2000 Result Units: ug/L

Analyte Name	Analytical Results	Reported Detection Limits
Acenaphthene	<RDL	1.0
Acenaphthylene	<RDL	2.1
Anthracene	<RDL	0.7
Benzo(a)anthracene	<RDL	0.1
Benzo(a)pyrene	<RDL	0.1
Benzo(b)fluoranthene	<RDL	0.2
Benzo(g,h,i)perylene	<RDL	0.8
Benzo(k)fluoranthene	<RDL	0.2
Chrysene	<RDL	0.2
Dibenzo(a,h)anthracene	<RDL	0.3
Fluoranthene	<RDL	0.2
Fluorene	<RDL	0.2
Indeno(1,2,3-cd)pyrene	<RDL	0.4
Naphthalene	<RDL	1.0
Phenanthrene	<RDL	0.7
Pyrene	<RDL	0.3

ANALYSIS: Petroleum Range Organics (PRO) Method Ref: FL-PRO

Date Ext/Dig/Prep: 03/26/2000 Date Analyzed: 03/31/2000 Result Units: mg/L

Analyte Name	Analytical Results	Reported Detection Limits
Petroleum Range Organics (PRO)	0.46JB	1.0

ANALYSIS: VOC's Navy Method Ref: 8260B

Date Ext/Dig/Prep: 03/23/2000 Date Analyzed: 03/23/2000 Result Units: ug/L

Analyte Name	Analytical Results	Reported Detection Limits
1,1,1,2-Tetrachloroethane	<RDL	2.5
1,1,1-Trichloroethane	<RDL	4
1,1,2,2-Tetrachloroethane	<RDL	2
1,1,2-Trichloroethane	<RDL	5
1,1-Dichloroethane	<RDL	2
1,1-Dichloroethene	<RDL	6
1,2,3-Trichlorobenzene	<RDL	1.5
1,2,3-Trichloropropane	<RDL	16
1,2,4-Trichlorobenzene	<RDL	2
1,2,4-Trimethylbenzene	<RDL	6.5
1,2-Dibromo-3-chloropropane	<RDL	13
1,2-Dichlorobenzene	<RDL	1.5
1,2-Dichloroethane	<RDL	3
1,2-Dichloropropane	<RDL	2
1,2-Ethylene Dibromide	<RDL	3
1,3,5-Trimethylbenzene	<RDL	2.5
1,3-Dichlorobenzene	<RDL	6
1,3-Dichloropropane	<RDL	2
1,4-Dichlorobenzene	<RDL	1.5
2,2-Dichloropropane	<RDL	17.5
2-Chlorotoluene	<RDL	2
4-Chlorotoluene	<RDL	3
Benzene	<RDL	2
Bromobenzene	<RDL	1.5
Bromochloromethane	<RDL	2
Bromodichloromethane	<RDL	4
Bromoform	<RDL	6
Bromomethane	<RDL	5.5
Carbon tetrachloride	<RDL	10.5
Chlorobenzene	<RDL	2
Chloroethane	<RDL	5
Chloroform	<RDL	1.5
Chloromethane	<RDL	6.5
cis-1,2-Dichloroethene	<RDL	6
cis-1,3-Dichloropropene	<RDL	5
Dibromochloromethane	<RDL	2.5
Dibromomethane	<RDL	12
Dichlorodifluoromethane	<RDL	5
Ethylbenzene	<RDL	3
Hexachlorobutadiene	<RDL	5.5
Isopropylbenzene	<RDL	2.5
Methylene chloride	<RDL	1.5
n-Butylbenzene	<RDL	5.5
n-Propylbenzene	<RDL	2
Naphthalene	<RDL	2
p-Isopropyltoluene	<RDL	6

Sec-Butylbenzene	1.0J	6.5
Styrene	<RDL	2
Tert-Butylbenzene	<RDL	7
Tetrachloroethylene	<RDL	7
Toluene	<RDL	5.5
Total Xylenes	1.8J	5
trans-1,2-Dichloroethene	<RDL	3
trans-1,3-Dichloropropene	<RDL	5
Trichloroethylene	<RDL	5
Trichlorofluoromethane	<RDL	4
Vinyl chloride	<RDL	5.5

ANALYSIS: X_PAH QC Surrogates (Liquid) Method Ref: 8310

Date Ext/Dig/Prep: 03/24/2000 Date Analyzed: 03/26/2000 Result Units: %

Analyte Name	Analytical Results	Reported Detection Limits
p-terphenyl d14	54	

ANALYSIS: X_PRO QC Surrogates (Water) Method Ref: FL-PRO

Date Ext/Dig/Prep: 03/26/2000 Date Analyzed: 03/31/2000 Result Units: %

Analyte Name	Analytical Results	Reported Detection Limits
C(39)	16	
o-Terphenyl	50	

ANALYSIS: X_VOC QC Surrogates (Waters) Method Ref: 8260B

Date Ext/Dig/Prep: 03/23/2000 Date Analyzed: 03/23/2000 Result Units: %

Analyte Name	Analytical Results	Reported Detection Limits
1,2-Dichloroethane-d4	105	
4-Bromofluorobenzene	104	
Toluene-d8	96	

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LABORATORY REPORT

Accura Sample ID #: AB89512 **Accura Project #: 23975**

Client: CH2M HILL - CCI Date Sampled: 03/20/2000

Client Contact: SAM ROSS Date Received: 03/21/2000

Client Project Number: 083 CTO 029 Date Reported: 04/07/2000

Client Project Name: 103 RD ST. BASELINE G.W. SAMPLING Sample Matrix: WATER

Client Sample ID: 029-EQ01-Q1-00

ANALYSIS: VOC's Navy Method Ref: 8260B

Date Ext/Dig/Prep: 03/24/2000 Date Analyzed: 03/24/2000 Result Units: ug/L

Analyte Name	Analytical Results	Reported Detection Limits
1,1,1,2-Tetrachloroethane	<RDL	2.5
1,1,1-Trichloroethane	<RDL	4
1,1,2,2-Tetrachloroethane	<RDL	2
1,1,2-Trichloroethane	<RDL	5
1,1-Dichloroethane	<RDL	2
1,1-Dichloroethene	<RDL	6
1,2,3-Trichlorobenzene	1.4J	1.5
1,2,3-Trichloropropane	<RDL	16
1,2,4-Trichlorobenzene	<RDL	2
1,2,4-Trimethylbenzene	<RDL	6.5
1,2-Dibromo-3-chloropropane	<RDL	13
1,2-Dichlorobenzene	<RDL	1.5
1,2-Dichloroethane	<RDL	3
1,2-Dichloropropane	<RDL	2
1,2-Ethylene Dibromide	<RDL	3
1,3,5-Trimethylbenzene	<RDL	2.5
1,3-Dichlorobenzene	<RDL	6
1,3-Dichloropropane	<RDL	2
1,4-Dichlorobenzene	<RDL	1.5
2,2-Dichloropropane	<RDL	17.5
2-Chlorotoluene	<RDL	2
4-Chlorotoluene	<RDL	3
Benzene	<RDL	2
Bromobenzene	<RDL	1.5
Bromochloromethane	<RDL	2
Bromodichloromethane	<RDL	4
Bromoform	<RDL	6
Bromomethane	<RDL	5.5
Carbon tetrachloride	<RDL	10.5
Chlorobenzene	<RDL	2
Chloroethane	<RDL	5
Chloroform	<RDL	1.5

Chloromethane	<RDL	6.5
cis-1,2-Dichloroethene	<RDL	6
cis-1,3-Dichloropropene	<RDL	5
Dibromochloromethane	<RDL	2.5
Dibromomethane	<RDL	12
Dichlorodifluoromethane	<RDL	5
Ethylbenzene	<RDL	3
Hexachlorobutadiene	1.1J	5.5
Isopropylbenzene	<RDL	2.5
Methylene chloride	<RDL	1.5
n-Butylbenzene	<RDL	5.5
n-Propylbenzene	<RDL	2
Naphthalene	<RDL	2
p-Isopropyltoluene	<RDL	6
Sec-Butylbenzene	<RDL	6.5
Styrene	<RDL	2
Tert-Butylbenzene	<RDL	7
Tetrachloroethylene	<RDL	7
Toluene	1.4J	5.5
Total Xylenes	2.1J	5
trans-1,2-Dichloroethene	<RDL	3
trans-1,3-Dichloropropene	<RDL	5
Trichloroethylene	<RDL	5
Trichlorofluoromethane	<RDL	4
Vinyl chloride	<RDL	5.5

ANALYSIS: X VOC QC Surrogates (Waters) Method Ref: 8260B

Date Ext/Dig/Prep: 03/24/2000 Date Analyzed: 03/24/2000 Result Units: %

Analyte Name	Analytical Results	Reported Detection Limits
1,2-Dichloroethane-d4	102	
4-Bromofluorobenzene	99	
Toluene-d8	98	

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LABORATORY REPORT

Accura Sample ID #: AB89513 **Accura Project #: 23975**

Client: CH2M HILL - CCI Date Sampled: 03/20/2000

Client Contact: SAM ROSS Date Received: 03/21/2000

Client Project Number: 083 CTO 029 Date Reported: 04/07/2000

Client Project Name: 103 RD ST. BASELINE G.W. SAMPLING Sample Matrix: WATER

Client Sample ID: 029-EQ02-Q1-00

ANALYSIS: VOC's Navy Method Ref: 8260B

Date Ext/Dig/Prep: 03/24/2000 Date Analyzed: 03/24/2000 Result Units: ug/L

Analyte Name	Analytical Results	Reported Detection Limits
1,1,1,2-Tetrachloroethane	<RDL	2.5
1,1,1-Trichloroethane	<RDL	4
1,1,2,2-Tetrachloroethane	<RDL	2
1,1,2-Trichloroethane	<RDL	5
1,1-Dichloroethane	<RDL	2
1,1-Dichloroethene	<RDL	6
1,2,3-Trichlorobenzene	<RDL	1.5
1,2,3-Trichloropropane	<RDL	16
1,2,4-Trichlorobenzene	<RDL	2
1,2,4-Trimethylbenzene	<RDL	6.5
1,2-Dibromo-3-chloropropane	<RDL	13
1,2-Dichlorobenzene	<RDL	1.5
1,2-Dichloroethane	<RDL	3
1,2-Dichloropropane	<RDL	2
1,2-Ethylene Dibromide	<RDL	3
1,3,5-Trimethylbenzene	<RDL	2.5
1,3-Dichlorobenzene	<RDL	6
1,3-Dichloropropane	<RDL	2
1,4-Dichlorobenzene	<RDL	1.5
2,2-Dichloropropane	<RDL	17.5
2-Chlorotoluene	<RDL	2
4-Chlorotoluene	<RDL	3
Benzene	<RDL	2
Bromobenzene	<RDL	1.5
Bromochloromethane	<RDL	2
Bromodichloromethane	<RDL	4
Bromoform	<RDL	6
Bromomethane	<RDL	5.5
Carbon tetrachloride	<RDL	10.5
Chlorobenzene	<RDL	2
Chloroethane	<RDL	5
Chloroform	<RDL	1.5

Chloromethane	<RDL	6.5
cis-1,2-Dichloroethene	<RDL	6
cis-1,3-Dichloropropene	<RDL	5
Dibromochloromethane	<RDL	2.5
Dibromomethane	<RDL	12
Dichlorodifluoromethane	<RDL	5
Ethylbenzene	<RDL	3
Hexachlorobutadiene	<RDL	5.5
Isopropylbenzene	<RDL	2.5
Methylene chloride	<RDL	1.5
n-Butylbenzene	<RDL	5.5
n-Propylbenzene	<RDL	2
Naphthalene	<RDL	2
p-Isopropyltoluene	<RDL	6
Sec-Butylbenzene	<RDL	6.5
Styrene	<RDL	2
Tert-Butylbenzene	<RDL	7
Tetrachloroethylene	<RDL	7
Toluene	1.6J	5.5
Total Xylenes	1.7J	5
trans-1,2-Dichloroethene	<RDL	3
trans-1,3-Dichloropropene	<RDL	5
Trichloroethylene	<RDL	5
Trichlorofluoromethane	<RDL	4
Vinyl chloride	<RDL	5.5

ANALYSIS: X VOC QC Surrogates (Waters) Method Ref: 8260B

Date Ext/Dig/Prep: 03/24/2000 Date Analyzed: 03/24/2000 Result Units: %

Analyte Name	Analytical Results	Reported Detection Limits
1,2-Dichloroethane-d4	104	
4-Bromofluorobenzene	100	
Toluene-d8	97	

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LABORATORY REPORT

Accura Sample ID #: AB89514 **Accura Project #: 23975**

Client: CH2M HILL - CCI Date Sampled: 03/20/2000

Client Contact: SAM ROSS Date Received: 03/21/2000

Client Project Number: 083 CTO 029 Date Reported: 04/07/2000

Client Project Name: 103 RD ST. BASELINE G.W. SAMPLING Sample Matrix: WATER

Client Sample ID: TRIP BLANK

ANALYSIS: VOC's Navy Method Ref: 8260B

Date Ext/Dig/Prep: 03/27/2000 Date Analyzed: 03/27/2000 Result Units: ug/L

Analyte Name	Analytical Results	Reported Detection Limits
1,1,1,2-Tetrachloroethane	<RDL	2.5
1,1,1-Trichloroethane	<RDL	4
1,1,2,2-Tetrachloroethane	<RDL	2
1,1,2-Trichloroethane	<RDL	5
1,1-Dichloroethane	<RDL	2
1,1-Dichloroethene	<RDL	6
1,2,3-Trichlorobenzene	<RDL	1.5
1,2,3-Trichloropropane	<RDL	16
1,2,4-Trichlorobenzene	<RDL	2
1,2,4-Trimethylbenzene	<RDL	6.5
1,2-Dibromo-3-chloropropane	<RDL	13
1,2-Dichlorobenzene	<RDL	1.5
1,2-Dichloroethane	<RDL	3
1,2-Dichloropropane	<RDL	2
1,2-Ethylene Dibromide	<RDL	3
1,3,5-Trimethylbenzene	<RDL	2.5
1,3-Dichlorobenzene	<RDL	6
1,3-Dichloropropane	<RDL	2
1,4-Dichlorobenzene	<RDL	1.5
2,2-Dichloropropane	<RDL	17.5
2-Chlorotoluene	<RDL	2
4-Chlorotoluene	<RDL	3
Benzene	<RDL	2
Bromobenzene	<RDL	1.5
Bromochloromethane	<RDL	2
Bromodichloromethane	<RDL	4
Bromoform	<RDL	6
Bromomethane	<RDL	5.5
Carbon tetrachloride	<RDL	10.5
Chlorobenzene	<RDL	2
Chloroethane	<RDL	5
Chloroform	<RDL	1.5

Chloromethane	<RDL	6.5
cis-1,2-Dichloroethene	<RDL	6
cis-1,3-Dichloropropene	<RDL	5
Dibromochloromethane	<RDL	2.5
Dibromomethane	<RDL	12
Dichlorodifluoromethane	<RDL	5
Ethylbenzene	<RDL	3
Hexachlorobutadiene	<RDL	5.5
Isopropylbenzene	<RDL	2.5
Methylene chloride	4.3B	1.5
n-Butylbenzene	<RDL	5.5
n-Propylbenzene	<RDL	2
Naphthalene	<RDL	2
p-Isopropyltoluene	<RDL	6
Sec-Butylbenzene	<RDL	6.5
Styrene	<RDL	2
Tert-Butylbenzene	<RDL	7
Tetrachloroethylene	<RDL	7
Toluene	1.1J	5.5
Total Xylenes	<RDL	5
trans-1,2-Dichloroethene	<RDL	3
trans-1,3-Dichloropropene	<RDL	5
Trichloroethylene	<RDL	5
Trichlorofluoromethane	<RDL	4
Vinyl chloride	<RDL	5.5

ANALYSIS: X VOC QC Surrogates (Waters) Method Ref: 8260B

Date Ext/Dig/Prep: 03/27/2000 Date Analyzed: 03/27/2000 Result Units: %

Analyte Name	Analytical Results	Reported Detection Limits
1,2-Dichloroethane-d4	95	
4-Bromofluorobenzene	98	
Toluene-d8	94	

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LABORATORY REPORT

Accura Sample ID #: AB89525 **Accura Project #: 23975**

Client: CH2M HILL - CCI Date Sampled: 03/21/2000

Client Contact: SAM ROSS Date Received: 03/21/2000

Client Project Number: 083 CTO 029 Date Reported: 04/07/2000

Client Project Name: 103RD ST. BASELINE G.W. SAMPLING Sample Matrix: WATER

Client Sample ID: METHOD BLANK

ANALYSIS: Metals - Lead Method Ref: 3010A/6010B

Date Ext/Dig/Prep: 03/23/2000 Date Analyzed: 03/29/2000 Result Units: mg/L

Analyte Name	Analytical Results	Reported Detection Limits
Lead	<RDL	0.010

ANALYSIS: PAH's by HPLC Method Ref: 8310

Date Ext/Dig/Prep: 03/24/2000 Date Analyzed: 03/26/2000 Result Units: ug/L

Analyte Name	Analytical Results	Reported Detection Limits
Acenaphthene	<RDL	1.0
Acenaphthylene	<RDL	2.1
Anthracene	<RDL	0.7
Benzo(a)anthracene	<RDL	0.1
Benzo(a)pyrene	<RDL	0.1
Benzo(b)fluoranthene	<RDL	0.2
Benzo(g,h,i)perylene	<RDL	0.8
Benzo(k)fluoranthene	<RDL	0.2
Chrysene	<RDL	0.2
Dibenzo(a,h)anthracene	<RDL	0.3
Fluoranthene	<RDL	0.2
Fluorene	<RDL	0.2
Indeno(1,2,3-cd)pyrene	<RDL	0.4
Naphthalene	<RDL	1.0
Phenanthrene	<RDL	0.7
Pyrene	<RDL	0.3

ANALYSIS: Petroleum Range Organics (PRO) Method Ref: FL-PRO

Date Ext/Dig/Prep: 03/26/2000 Date Analyzed: 03/30/2000 Result Units: mg/L

Analyte Name	Analytical Results	Reported Detection Limits
Petroleum Range Organics (PRO)	0.52J	1.0

ANALYSIS: VOC's Navy Method Ref: 8260B

Date Ext/Dig/Prep: 03/23/2000 Date Analyzed: 03/23/2000 Result Units: ug/L

Analyte Name	Analytical Results	Reported Detection Limits
1,1,1,2-Tetrachloroethane	<RDL	2.5
1,1,1-Trichloroethane	<RDL	4
1,1,2,2-Tetrachloroethane	<RDL	2
1,1,2-Trichloroethane	<RDL	5
1,1-Dichloroethane	<RDL	2
1,1-Dichloroethene	<RDL	6
1,2,3-Trichlorobenzene	<RDL	1.5
1,2,3-Trichloropropane	<RDL	16
1,2,4-Trichlorobenzene	<RDL	2
1,2,4-Trimethylbenzene	<RDL	6.5
1,2-Dibromo-3-chloropropane	<RDL	13
1,2-Dichlorobenzene	<RDL	1.5
1,2-Dichloroethane	<RDL	3
1,2-Dichloropropane	<RDL	2
1,2-Ethylene Dibromide	<RDL	3
1,3,5-Trimethylbenzene	<RDL	2.5
1,3-Dichlorobenzene	<RDL	6
1,3-Dichloropropane	<RDL	2
1,4-Dichlorobenzene	<RDL	1.5
2,2-Dichloropropane	<RDL	17.5
2-Chlorotoluene	<RDL	2
4-Chlorotoluene	<RDL	3
Benzene	<RDL	2
Bromobenzene	<RDL	1.5
Bromochloromethane	<RDL	2
Bromodichloromethane	<RDL	4
Bromoform	<RDL	6
Bromomethane	<RDL	5.5
Carbon tetrachloride	<RDL	10.5
Chlorobenzene	<RDL	2
Chloroethane	<RDL	5
Chloroform	<RDL	1.5
Chloromethane	<RDL	6.5
cis-1,2-Dichloroethene	<RDL	6
cis-1,3-Dichloropropene	<RDL	5
Dibromochloromethane	<RDL	2.5
Dibromomethane	<RDL	12
Dichlorodifluoromethane	<RDL	5
Ethylbenzene	<RDL	3
Hexachlorobutadiene	<RDL	5.5
Isopropylbenzene	<RDL	2.5
Methylene chloride	2.3	1.5
n-Butylbenzene	<RDL	5.5
n-Propylbenzene	<RDL	2
Naphthalene	<RDL	2
p-Isopropyltoluene	<RDL	6

Client Sample ID: METHOD BLANK AALSample ID #: AB89525 Accura Project #: 23975

Sec-Butylbenzene	<RDL	6.5
Styrene	<RDL	2
Tert-Butylbenzene	<RDL	7
Tetrachloroethylene	<RDL	7
Toluene	<RDL	5.5
Total Xylenes	<RDL	5
trans-1,2-Dichloroethene	<RDL	3
trans-1,3-Dichloropropene	<RDL	5
Trichloroethylene	<RDL	5
Trichlorofluoromethane	<RDL	4
Vinyl chloride	<RDL	5.5

ANALYSIS: X PRO QC Surrogates (Water) Method Ref: FL-PRO

Date Ext/Dig/Prep: 03/26/2000 Date Analyzed: 03/30/2000 Result Units: %

Analyte Name	Analytical Results	Reported Detection Limits
C(39)	23	
o-Terphenyl	88	

ANALYSIS: X VOC QC Surrogates (Waters) Method Ref: 8260B

Date Ext/Dig/Prep: 03/23/2000 Date Analyzed: 03/23/2000 Result Units: %

Analyte Name	Analytical Results	Reported Detection Limits
1,2-Dichloroethane-d4	96	
4-Bromofluorobenzene	96	
Toluene-d8	101	

Accura Analytical Laboratory, Inc.

25209

ACCURA ANALYTICAL LABORATORY, INC.

Environmental Analytical Services

6017 Financial Drive, Norcross, GA 30071
Phone # (770) 449-8800 Fax # (770) 449-5477

CHAIN OF CUSTODY

Company Name: CCI / J.A. JONES ENV. SERVICES
Billing address:
Address: Bldg 1 6219 Authority Ave. Jacksonville, FL 32215
Client P.O. #
Report Sent to: (Client Contact): Sam Ross
Contact Phone # 904 7774812 Fax # 904 7774262
Project Name: 103 RD ST. BASELINE G.W. Sampling
Project Number: 083 CT0029

For Laboratory Use Only

Custody Seal: Y N
Page 1 OF 2
QC Level: N 1 2 3 4
Init/Temp: 2°C/[illegible]
Sample Condition:
AAL Lab Project # 23975

Samplers: (signature): R. [illegible]
Samplers: (printed): R. Dumaop

Sample ID #	Sample Date / Time	Comp	Grab	Matrix	Preserved	Sample Location:	No. of Containers	ANALYSIS: METHOD 8021 B	METHOD 8310	METHOD 239.2/6010	FL-PRO						Remarks	Accura Sample ID No. AB
029-SMW01-Q1-00	3-20-00 13:31		X	W	X	CEF-103-SMW-01	5	X	X	X	X							89497
029-SMW02-Q1-00	3-20-00 16:05		X	W	X	CEF-103-SMW-02	5	X	X	X	X							89498
029-SMW03-Q1-00	3-20-00 14:10		X	W	X	CEF-103-SMW-03	5	X	X	X	X							89499
029-SMW04-Q1-00	3-20-00 15:05		X	W	X	CEF-103-SMW-04	5	X	X	X	X							89500
029-SMW05-Q1-00	3-20-00 14:25		X	W	X	CEF-103-SMW-05	5	X	X	X	X							89501
029-SMW06-Q1-00	3-20-00 16:55		X	W	X	CEF-103-SMW-06	5	X	X	X	X							89502
029-SMW07-Q1-00	3-20-00 16:35		X	W	X	CEF-103-SMW-07	5	X	X	X	X							89503
029-SMW08-Q1-00	3-20-00 16:20		X	W	X	CEF-103-SMW-08	5	X	X	X	X							89504
029-SMW09-Q1-00	3-20-00 17:05		X	W	X	CEF-103-SMW-09	5	X	X	X	X							89505
029-SMW10-Q1-00	3-20-00 16:45		X	W	X	CEF-103-SMW-10	5	X	X	X	X							89506

Relinquished By:	Date / Time	Received By:	Date / Time	Special Requirements Or Remarks:
R. [illegible]	3/20/00 / 1740	Fedex		
Relinquished By:	**Date / Time**	**Received By:**	**Date / Time**	**Turnaround Time Requested:**
Fedex		[illegible]	3/21/00 09:35	

Matrix Guide: (S = Soil) (W = Water) (L = Liquid) (C = Cartridge) (SL = Sludge) (A = Air Sample) (F = Foods) (M = Miscellaneous)

COC97-2 XLS

ACCURA ANALYTICAL LABORATORY, INC. - STANDARD TERMS AND CONDITIONS

1.0 General

1.1) Accura Analytical Labs, Inc. "AAL" is the laboratory being contracted. The ' Client " is our valued Client. Our agreement with the Client is made up of these Standard Terms, any written proposal or confirmation letter, and our pricing documents.

2.0 AAL General Responsibilities

2.1) AAL agrees to provide the Client professional environmental services. AAL will provide written reports containing analytical results produced in conformance with agreed upon testing criteria In performing our services, AAL will use that degree of care and skill ordinarily exercised under similar circumstances by reputable members of our profession

2.2) Tests and observations will be conducted in accordance with appropriate test procedures and laboratory protocols. If the Client specifies tests that vary from AAL's standard or recommended procedures, the Client agrees to hold AAL harmless from all claims, damages, and expenses arising from Client's direction.

2.3) AAL will not release information regarding our services for the Client or any information that AAI received from the Client unless authorized in writing, except for information that is in the public domain and except as we are required by law AAL agrees to comply with more restrictive confidentiality requirements, if requested in writing

3.0 Clients General Responsibilities

3.1) Likewise, the Client will not use AAL's name and/or data in any manner which might cause harm to the company's reputation and/or business. Under no circumstances is the name of AAL, to be published, either alone or in association will that of any other party, without prior written approval from AAL

3 2) The Client will assign a representative(s) who has authority to transmit instructions, receive information, make decisions relative to AAL's work.

3.3) The Client will provide warnings on all samples that are suspected of containing chemical or radioactive hazards This information shall be given to AAL in writing as a part of the order prior to shipment of the samples Copies shall also accompany the samples

4.0 Delivery and Acceptance of Samples

4.1) Until AAL accepts delivery of samples by notation on a chain-of -custody document or otherwise in writing accepts the Client's samples. AAL is not responsible for damage or loss to samples.

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4.3) Samples remain the property of the Client at all times. Samples will be properly disposed by AAL 90 days after the sampling date, unless prior written arrangement has been made with AAL to return the materials to the Client at the Client's expense. All samples classified as mixed wastes will be returned to the Client.

5.0 Changes to Orders

5 1) Only designated representatives for each order are authorized to act regarding changes to an order AAL will only accept changes to an order from the Client's designated representative(s)

5.2) AAL will notify the Client of any activity that AAL regards as a change to the terms and conditions of an order Depending upon the nature of the change, AAL may request a revised Client Confirmation Letter or contract amendment.

5.3) The Client will respond to this notification and any request for a revised Client Confirmation Letter or contract amendment within reasonable time to allow analyses to be completed within the holding time

5.4) Orders may be terminated in writing by either party AAL shall be compensated for expenses incurred and for services that are already in process and cannot be reasonable avoided

6 0 Compensation

6.1) AAL pricing is predicated upon the Client's acceptance of the conditions and allocations of risks and responsibilities described in this Agreement. The Client agrees to pay for services as presented in AAL s proposal or Client confirmation letter and accepted by the Client, or according to AAL's current pricing if there is no other written pricing agreement

6 2) The Client agrees to pay invoices within 30 days Past due amounts are subject to a late payment penalty of one and one-half (1.5%) percent per month, but not to exceed the maximum rate allowed by law .Attorneys' fees and other costs incurred in the collecting past due amounts shall be paid by the Client.

6 3) The Client's obligation to pay for the services contracted is in no way dependent or conditioned upon the Client's ability to obtain financing, approval of governmental or regulatory agencies, or upon the Client's successful completion of the project

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7.0 Miscellaneous Provisions

7.1) AAL may subcontract laboratory procedures as AAL deems necessary to meet AAL obligations to Client.

7 2) Neither Client nor AAL shall have any liability for nonperformance caused in whole or in part by causes beyond our reasonable control. Such causes include but are not limited to Acts of God, civil unrest and war, labor unrest and strikes, acts of authorities

7.3) If any of the provisions of this Agreement are held to be invalid or unenforceable in any respect, the remaining terms shall be in full effect and shall be construed as if the invalid or unenforceable matters were never included in it. No waiver of any default shall be a waiver of any future default.

7.4) Due to limited space on this chain of custody document, complete terms and conditions are available upon request. Contact the laboratory for a complete copy.

25213

ACCURA ANALYTICAL LABORATORY, INC.

Environmental Analytical Services

6017 Financial Drive, Norcross, GA 30071
Phone # (770) 449-8800 Fax # (770) 449-5477

CHAIN OF CUSTODY

Company Name: CCI / J.A. JONES ENV. SERVICES
Billing address: 115 Perimeter Center Place NE Suite 70 Atlanta GA 30346
Address: Bldg 1 6219 Authority Ave Jax, FL 32215
Client P.O. #
Report Sent to: (Client Contact): Sam Ross
Contact Phone # 904 7774812 Fax # 904 7774262
Project Name: 103RD ST BASELINE GW Sampling
Project Number: 083 CTO 029

For Laboratory Use Only

Custody Seal: Y N
Page 2 OF 2
QC Level: N 1 2 3 4
Init/Temp: (LD)/2°C
Sample Condition:
AAL Lab Project # 23975

Samplers: (signature): R. Dumarp
Samplers: (printed): R. Dumarp

Sample ID #	Sample Date / Time	Comp	Grab	Matrix	Preserved	Sample Location:	No. of Containers	ANALYSIS: METHOD 8021 B	METHOD 8310	METHOD 239.2/6020	FL-PRO						Remarks	Accura Sample ID No. AB
029-SMW11-Q1-00	3-20-00 15:55		X	W	X	CEF-103-SMW-11	3/21/00 5	X	X	X	X							89507
029-SMW12-Q1-00	3-20-00 13:45		X	W	X	CEF-103-SMW-12	5 3/21/00	X	X	X	X							89508
~~029-SMW~~																		
029-DMW01-Q1-00	3-20-00 14:45		X	W	X	CEF-103-DMW-01		X	X	X	X							89509
029-Dup01-Q1-00	3-20-00 14:30		X	W	X		5	X	X	X	X							89510
029-Dup02-Q1-00	3-20-00 14:55		X	W	X		5	X	X	X	X							89511
029-EQ01-Q1-00	3-20-00 13:25		X	W	X		2	X										89512
029-EQ02-Q1-00	3-20-00 17:20		X	W	X		2	X										89513
Trip Blank																		89514

Relinquished By:	Date / Time	Received By:	Date / Time	Special Requirements Or Remarks:
R. Dumarp	3/20/00 / 1740	Fedex		
Relinquished By: Fedex	Date / Time	Received By: Lovely Scott	Date / Time 3/21/00 09:35	Turnaround Time Requested:

Matrix Guide: (S = Soil) (W = Water) (L = Liquid) (C = Cartridge) (SL = Sludge) (A = Air Sample) (F = Foods) (M = Miscellaneous)

COC97-2 XLS

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PROJECT QUALITY CONTROL RESULTS
Project 23975

		Project Control Rec				Accuracy Limits		Project Control		Precision Limits		Project Control Recoveries		Accuracy Limits		Project Control		Precision Limits	
		MS	MSD	MS	MS	MS/MSD Recoveries		MS/MSD % Deviation		MS/MSD Deviation		LCS	LCS	LCS Recoveries		Field Dup % Deviation		Field Dup Deviation	
Method No[1]	Analyte / Component	Water		Soil[2]		Water	Soil[2]	Water	Soil[2]	Water	Soil[2]	Water	Soil[2]	Water	Soil[2]	Water	Soil[2]	Water	Soil[2]
	VOLATILES BY GC/MS					%	%			%	%			%	%			%	%
8260B	1 1,1,2-Tetrachloroethane	99	99			60-140	20-150	0%	#DIV/0!	<30	<50	104		62-108	62-108			<50	<75
8260B	1 1,1-Trichloroethane	96	96			60-140	20-150	0%	#DIV/0!	<30	<50	96		65-135	65-135			<50	<75
8260B	1,1,2,2-Tetrachloroethane	109	112			60-140	20-150	3%	#DIV/0!	<30	<50	95		64-135	64-135			<50	<75
8260B	1,1,2-Trichloroethane	103	103			60-140	20-150	0%	#DIV/0!	<30	<50	100		65-135	65-135			<50	<75
8260B	1,1-Dichloroethane	107	106			60-140	20-150	1%	#DIV/0!	<30	<50	101		62-135	62-135			<50	<75
8260B	1,1-Dichloroethene	102	99			60-140	20-150	3%	#DIV/0!	<30	<50	101		65-135	65-135			<50	<75
8260B	1,2,3-Trichlorobenzene	104	106			60-140	20-150	2%	#DIV/0!	<30	<50	94		65-147	65-147			<50	<75
8260B	1,2,3-Trichloropropane	112	118			60-140	20-150	5%	#DIV/0!	<30	<50	93		65-135	65-135			<50	<75
8260B	1,2,4-Trichlorobenzene	102	105			60-140	20-150	3%	#DIV/0!	<30	<50	95		65-145	65-145			<50	<75
8260B	1,2,4-Trimethylbenzene	104	105			60-140	20-150	1%	#DIV/0!	<30	<50	98		65-135	65-135			<50	<75
8260B	1,2-Dichloroethane	115	113			60-140	20-150	2%	#DIV/0!	<30	<50	101		58-137	58-137			<50	<75
8260B	1,2-Dichlorobenzene	104	104			60-140	20-150	0%	#DIV/0!	<30	<50	102		65-135	65-135			<50	<75
8260B	1 2-Dibromo-3-chloropropane	121	126			60-140	20-150	4%	#DIV/0!	<30	<50	93		49-135	49-135			<50	<75
8260B	1 2-Dichloropropane	108	106			60-140	20-150	2%	#DIV/0!	<30	<50	102		60-135	60-135			<50	<75
8260B	1 2-Ethylene Dibromide	103	104			60-140	20-150	1%	#DIV/0!	<30	<50	101		65-135	65-135			<50	<75
8260B	1,3,5-Trimethylbenzene	105	105			60-140	20-150	0%	#DIV/0!	<30	<50	98		62-135	62-135			<50	<75
8260B	1,3-Dichlorobenzene	101	102			60-140	20-150	1%	#DIV/0!	<30	<50	99		65-135	65-135			<50	<75
8260B	1 3-Dichloropropane	107	108			60-140	20-150	1%	#DIV/0!	<30	<50	102		65-135	65-135			<50	<75
8260B	1 4-Dichlorobenzene	99	101			60-140	20-150	2%	#DIV/0!	30	50	98		65-135	65-135			<50	<75
8260B	2 2-Dichloropropane	90	88			60-140	20-150	2%	#DIV/0!	30	<50	88		65-135	65-135			<50	<75
8260B	2-Chlorotoluene	102	103			60-140	20-150	1%	#DIV/0!	<30	50	96		63-135	63-135			<50	<75
8260B	4-Chlorotoluene	106	107			60-140	20-150	1%	#DIV/0!	<30	<50	98		64-135	64-135			<50	<75
8260B	Benzene	102	102			60-140	20-150	0%	#DIV/0!	<30	<50	99		65-135	65-135			<50	<75
8260B	Bromobenzene	101	102			60-140	20-150	1%	#DIV/0!	<30	<50	98		65-135	65-135			<50	<75
8260B	Bromochloromethane	105	104			60-140	20-150	1%	#DIV/0!	<30	<50	101		63-135	63-135			<50	<75
8260B	Bromodichloromethane	91	93			60-140	20-150	2%	#DIV/0!	<30	<50	98		65-135	65-135			<50	<75
8260B	Bromoform	108	110			60-140	20-150	2%	#DIV/0!	<30	<50	113		65-135	65-135			<50	<75
8260B	Bromomethane	63	79			60-140	20-150	23%	#DIV/0!	<30	<50	87		62-135	62-135			<50	<75
8260B	Carbon Tetrachloride	68	69			60-140	20-150	1%	#DIV/0!	<30	<50	76		52-135	52-135			<50	<75
8260B	Chlorobenzene	97	96			60-140	20-150	1%	#DIV/0!	<30	<50	102		65-135	65-135			<50	<75
8260B	Chloroethane	92	89			60-140	20-150	3%	#DIV/0!	<30	<50	102		55-135	55-135			<50	<75
8260B	Chloroform	110	108			60-140	20-150	2%	#DIV/0!	<30	<50	103		64-135	64-135			<50	<75
8260B	Chloromethane	74	78			60-140	20-150	5%	#DIV/0!	<30	<50	90		65-135	65-135			<50	<75
8260B	Cis-1,2-Dichloroethene	102	100			60-140	20-150	2%	#DIV/0!	<30	<50	99		65-135	65-135			<50	<75
8260B	Cis-1,3-Dichloropropene	98	96			60-140	20-150	2%	#DIV/0!	<30	<50	107		64-135	64-135			<50	<75
8260B	Dibromochloromethane	100	102			60-140	20-150	2%	#DIV/0!	<30	<50	103		63-135	63-135			<50	<75
8260B	Dibromomethane	118	114			60-140	20-150	3%	#DIV/0!	<30	<50	104		59-137	59-137			<50	<75
8260B	Dichlorodifluoromethane	85	80			60-140	20-150	6%	#DIV/0!	<30	<50	79		65-135	65-135			<50	<75
8260B	Ethylbenzene	104	103			60-140	20-150	1%	#DIV/0!	<30	<50	103		65-135	65-135			<50	<75
8260B	Hexachlorobutadiene	100	101			60-140	20-150	1%	#DIV/0!	<30	<50	99		65-135	65-135			<50	<75
8260B	Isopropylbenzene	104	105			60-140	20-150	1%	#DIV/0!	<30	<50	98		65-135	65-135			<50	<75
8260B	total-Xylene	102	101			60-140	20-150	1%	#DIV/0!	<30	<50	103		65-135	65-135			<50	<75
8260B	Methylene Chloride	103	102			60-140	20-150	1%	#DIV/0!	<30	<50	102		65-135	65-135			<50	<75
8260B	n-Butylbenzene	109	109			60-140	20-150	0%	#DIV/0!	<30	<50	101		65-135	65-135			<50	<75
8260B	n-Propylbenzene	109	109			60-140	20-150	0%	#DIV/0!	<30	<50	99		65-135	65-135			<50	<75

Notes
1) SW-846 Methods unless otherwise noted
2) Includes sediments waste solids

NS - Not Specified
NA - Not Applicable

PROJECT QUALITY CONTROL RESULTS
Project 23975

8260B	Naphthalene	114	125			60-140	20-150	9%	#DIV/0!	<30	<50	93		65-135	65-135			<50	<75
8260B	p-Isopropyltoluene	100	103			60-140	20-150	3%	#DIV/0!	<30	<50	100		65-135	65-135			<50	<75
8260B	Sec-Butylbenzene	103	104			60-140	20-150	1%	#DIV/0!	<30	<50	99		65-135	65-135			<50	<75
8260B	Styrene	101	100			60-140	20-150	1%	#DIV/0!	<30	<50	103		65-135	65-135			<50	<75
8260B	Trichloroethylene	102	101			60-140	20-150	1%	#DIV/0!	<30	<50	98		61-135	61-135			<50	<75
8260B	Tert-Butylbenzene	102	103			60-140	20-150	1%	#DIV/0!	<30	<50	101		65-135	65-135			<50	<75
8260B	Tetrachloroethylene	96	94			60-140	20-150	2%	#DIV/0!	<30	<50	103		61-135	61-135			<50	<75
8260B	Toluene	103	102			60-140	20-150	1%	#DIV/0!	<30	<50	102		64-135	64-135			<50	<75
8260B	Trans-1,2-Dichloroethene	102	99			60-140	20-150	3%	#DIV/0!	<30	<50	101		65-135	65-135			<50	<75
8260B	Trans-1,3-Dichloropropene	104	104			60-140	20-150	0%	#DIV/0!	<30	<50	103		56-135	56-135			<50	<75
8260B	Trichlorofluoromethane	106	101			60-140	20-150	5%	#DIV/0!	<30	<50	100		57-135	57-135			<50	<75
8260B	Vinyl Chloride	101	97			60-140	20-150	4%	#DIV/0!	<30	<50	97		36-144	36-144			<50	<75
8260B	Toluene-d8 (surr)	98	98			75-125	65-135	0%	#DIV/0!	NA	NA	99		NA	NA			NA	NA
8260B	4-Bromofluorobenzene (surr)	105	105			75-1225	65-135	0%	#DIV/0!	NA	NA	96		NA	NA			NA	NA
8260B	1,2-Dichloroethane-d4 (surr)	109	108			62-139	52-149	1%	#DIV/0!	NA	NA	103		NA	NA			NA	NA
	SEMI-VOLATILES BY GC/MS					%	%			%	%			%	%			%	%
8270C	Acenaphthylene	88	74			60-140	20-150	17%	#DIV/0!	<30	<50	70		47-125	37-135			<50	<75
8270C	Acenaphthene	67	56			60-140	20-150	18%	#DIV/0!	<30	<50	56		49-124	39-135			<50	<75
8270C	Anthracene	77	66			60-140	20-150	15%	#DIV/0!	<30	<50	65		45-165	35-175			<50	<75
8270C	Benzo (a) anthracene	94	86			60-140	20-150	9%	#DIV/0!	<30	<50	86		51-133	41-143			<50	<75
8270C	Benzo (a) pyrene	88	76			60-140	20-150	15%	#DIV/0!	<30	<50	78		41-125	31-135			<50	<75
8270C	Benzo (b) fluoranthene	91	81			60-140	20-150	12%	#DIV/0!	<30	<50	83		37-125	27-135			<50	<75
8270C	Benzo (g,h,i) perylene	80	61			60-140	20-150	27%	#DIV/0!	<30	<50	62		34-149	25-159			<50	<75
8270C	Chrysene	85	77			60-140	20-150	10%	#DIV/0!	<30	<50	78		55-133	45-143			<50	<75
8270C	Dibenzo (a,h) anthracene	57	46			60-140	20-150	21%	#DIV/0!	<30	<50	44		50-125	40-135			<50	<75
8270C	Fluoranthene	95	90			60-140	20-150	5%	#DIV/0!	<30	<50	87		47-125	37-135			<50	<75
8270C	Fluorene	76	69			60-140	20-150	10%	#DIV/0!	<30	<50	69		48-139	38-149			<50	<75
8270C	Indeno (1,2,3-c,d) pyrene	93	76			60-140	20-150	20%	#DIV/0!	<30	<50	79		27-160	25-170			<50	<75
8270C	Naphthalene	73	65			60-140	20-150	12%	#DIV/0!	<30	<50	61		50-125	40-135			<50	<75
8270C	Phenanthrene	83	72			60-140	20-150	14%	#DIV/0!	<30	<50	72		54-125	44-135			<50	<75
8270C	Pyrene	95	89			60-140	20-150	7%	#DIV/0!	<30	<50	86		47-136	37-146			<50	<75
8270C	Benzo (k) fluoranthene	90	78			60-140	20-150	14%	#DIV/0!	<30	<50	80		37-123	37-123			<50	<75
	METALS BY ICP					%	%			%	%			%	%			%	%
6010B	Lead	108	111			50-150	30-170	3%	#DIV/0!	<30	<50	107%		79-116	79-116			<50	<75
	PETROLEUM HYDROCARBONS					%	%			%	%			%	%			%	%
FL-PRO	TPH					50-150	30-170	#DIV/0!	#DIV/0!	<30	<50	71		75-125	70-130			<50	<75

Notes
1) SW-846 Methods unless otherwise noted
2) Includes sediments, waste, solids

NS - Not Specified
NA - Not Applicable

ACCURA ANALYTICAL LABORATORIES

EXTRACTION LOG

FL-PRO

ANALYSIS: (DRO) / PAH

DATE/TIME: 3/26/00 | 8:00 a.m.

MATRIX: WATER

ANALYST: DL

EXT. METHOD: (3510) / 3520

INSTRUMENT: GC-FID / GC-MSD

AAL I.D.	SAMPLE VOLUME	pH	SURR 1.0ML	SPIKE 1.0 ML	FINAL VOLUME	COMMENTS
Blank	1 L		DK		1.0 mL	
LCS	↓		↓	OK	↓	
89497						
89498						
89499						
89500						
89501						
89502						
89503						
89504						
89505						
89506						
89507						
89508						
89509						
89510						
89511	↓		↓		↓	
						3/27/00 DL 10:15 a.m.

START TIME: 9:30 a.m. STOP TIME: 10:30 a.m. SOLVENT ID #: EX 00016 DL

SURROGATE I.D.: FL00E029 / FL00E022 CONC.: 50 ppm / 150 ppm INITAL: DL

SPIKE I.D.: FL00E028 CONC.: 250 ppm INITIAL: DL

SPIKE I.D.: - CONC.: - INITIAL: -

EXTRACT STORAGE: REFRIG.# 5, BOX #: D-145 RapidVap TEMP.: 45°C

Sequence Date: 3-28-00
Analyst Initials: MT
Run Method: PRO0112
Quant Method: ↓

Initial Calibration
Compound: PRO
Date: 1-12-00

Vial Position	AAL Sample I.D. #	Extraction Date	Matrix	Dilution Factor	OTP/C(35) Recovery	PRO Spike Recovery	AAL Std. I.D. #	Comments
1	Solvent Blank	NA	CH_2Cl_2	1X	NA	NA		
2	4250 PHS PRO CCV	↓	Std.		101/94	128	005V049	Failed RR whole sequence
3	PROW Blank 0326	3-26-00	W		88/23	NA		
4	PROW LCS 0326				85/8.8	85		
5	89497				46/50	NA		
6	89498				42/31			
7	89499				29/53			
8	89500				36/36			
9	89501				44/40			RR 5X
10	89502				49/43			
11	89503				61/34			
12	89504				42/31			
13	Solvent Blank	NA	CH_2Cl_2		NA			
14	4250 PHS PRO CCV	↓	Std.		94/86	112	005V049	
15	89505	3-26-00	W		48/23	NA		
16	89506				48/66			
17	89507				42/49			
18	89508				40/49			
19	89509				53/19			
20	89510				43/40			RR 5X
21	89511				50/17			
3	PROW Blank 0326				84/22			
4	PROW LCS 0326				84/8.7	72		
5	89497	↓	↓	↓	44/50	NA		CCV failed

Initials / Date: MT 3-30-00

Sequence Date: See pg 053
Analyst Initials:
Run Method:
Quant Method:

Initial Calibration
Compound: See pg 053
Date:

Vial Position	AAL Sample I.D. #	Extraction Date	Matrix	Dilution Factor	OTP/(LCS) Recovery	PRO Spike Recovery	AAL Std. I.D. #		Comments
22	Solvent Blank	NA	$MeCl_2$	1X	NA	NA			
23	4250 PHS PRO CCV	↓	Std.		106/99	128	05V049	Fail	RR
6	89498	3-26-00	W		41/31	NA			
7	89499				28/54				
8	89500				34/37				
9	89501 5X			5X	43/37				100µl → 500µl $MeCl_2$
10	89502			1X	50/46				
11	89503				61/35				
12	89504				42/32				
24	89510 5X			5X	41/32				100µl → 500µl $MeCl_2$
25	Solvent Blank	NA	$MeCl_2$	1X	NA				
23	4250 PHS PRO CCV	↓	Std.	↓	113/105	125	05V049	Fail	RR

MT 3-30-00

Initials / Date: MT 3-30-00

Environmental Analytical Services

Sequence Date: 3-30 00
Analyst Initials: MT
Run Method: PRO112
Quant Method: ↓

Initial Calibration
Compound: PRC
Date: 1-12-00

Vial Position	AAL Sample I.D. #	Extraction Date	Matrix	Dilution Factor	OTP/C(39) Recovery	DRO Spike Recovery	AAL Std. I.D. #	Comments
1	Solvent Blank	NA	$MeCl_2$	1X	NA	NA		
2	4250 PHS PRO ccv	↓	Std.	↓	93 / 86	111	005V049	
3	PROW Blank 0326	3-26-00	W		88 / 23	NA		> ½ RDL
4	PROW LCS 0326				85 / 8.7	71		
5	89497				45 / 50	NA		
6	89498				42 / 31			
7	89499				29 / 54			
8	89500			↓	35 / 38			
9	89501 5X			5X	44 / 37			100µl → 500µl $MeCl_2$
10	89502			1X	50 / 46			
11	89503				60 / 34			
12	89504	↓	↓		43 / 30			
13	Solvent Blank	NA	$MeCl_2$		NA	↓		
14	4250 PHS PRO ccv	↓	Std.		91 / 85	104	005V049	
15	89505	3-26-00	W		55 / 25	NA		
16	89506				51 / 70			
17	89507				43 / 49			
18	89508				43 / 51			
19	89509			↓	55 / 18			
20	89510 5X			5X	39 / 30			100µl → 500µl $MeCl_2$
21	89511	↓	↓	1X	50 / 16			
22	Solvent Blank	NA	$MeCl_2$	↓	NA	↓		
23	4250 PHS PRO ccv	↓	Std.	↓	94 / 89	110		
				MT 3-31-00				

Initials / Date: MT 3-31-00

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\033000\03300032.D Vial: 23
Acq On : 31 Mar 2000 8:21 pm Operator: MT
Sample : 4250 PHS PRO CCV Inst : DUAL FID
Misc : Multiplr: 1.00
IntFile : PRO0914.e
Quant Time: Apr 2 14:48 2000 Quant Results File: PRO0112.RES

Quant Method : C:\HPCHEM\1\METHODS\PRO0112.M (Chemstation Integrator)
Title : FL PRO
Last Update : Thu Mar 09 14:46:05 2000
Response via : Initial Calibration
DataAcq Meth : PRO0112.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) SC o-Terphenyl	23.34	1957969	46.919 ug/mlm
Spiked Amount 50.000	Recovery =		93.84% 94 MT
3) SC C(39)	35.27	5103150	132.807 ug/mlm
Spiked Amount 150.000	Recovery =		88.54% NT
Target Compounds			
1) HM Petoleum Range Organics	2.15	207491023	4676.178 ug/ml

110% MT

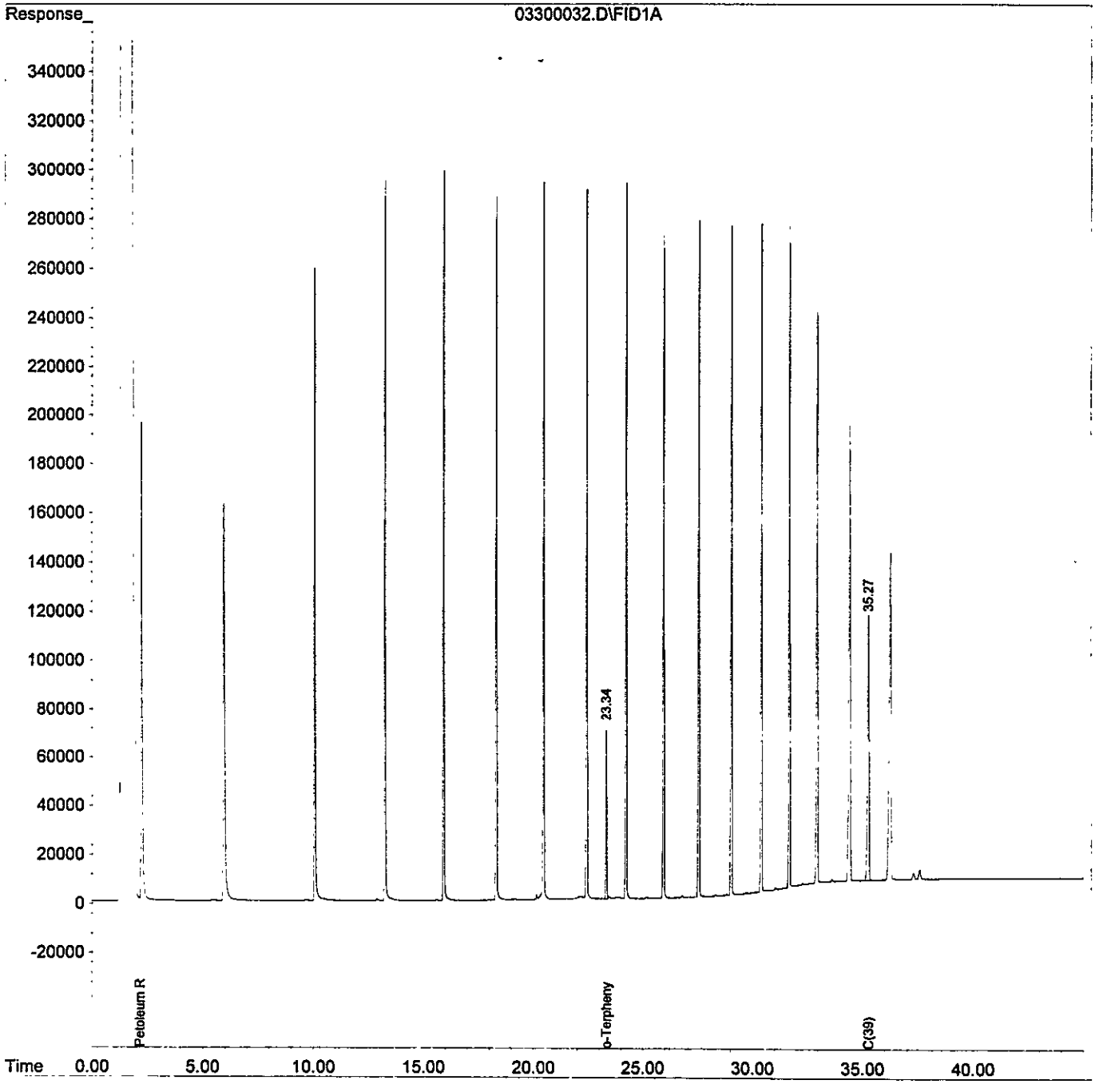
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\1\DATA\033000\03300032.D Vial: 23
Acq On : 31 Mar 2000 8:21 pm Operator: MT
Sample : 4250 PHS PRO CCV Inst : DUAL FID
Misc : Multiplr: 1.00
IntFile : PRO0914.e
Quant Time: Apr 2 14:48 2000 Quant Results File: PRO0112.RES

Quant Method : C:\HPCHEM\1\METHODS\PRO0112.M (Chemstation Integrator)
Title : FL PRO
Last Update : Thu Mar 09 14:46:05 2000
Response via : Multiple Level Calibration
DataAcq Meth : PRO0112.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\033000\03300023.D Vial: 14
Acq On : 31 Mar 2000 10:47 am Operator: MT
Sample : 4250 PHS PRO CCV Inst : DUAL FID
Misc : Multiplr: 1.00
IntFile : PRO0914.e
Quant Time: Mar 31 11:39 2000 Quant Results File: PRO0112.RES

Quant Method : C:\HPCHEM\1\METHODS\PRO0112.M (Chemstation Integrator)
Title : FL PRO
Last Update : Thu Mar 09 14:46:05 2000
Response via : Initial Calibration
DataAcq Meth : PRO0112.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) SC o-Terphenyl	23.34	1889540	45.279 ug/mlm
Spiked Amount 50.000	Recovery =		90.56% ✓MT
3) SC C(39)	35.27	4890918	127.284 ug/mlm
Spiked Amount 150.000	Recovery =		84.86% ✓MT
Target Compounds			
1) HM Petoleum Range Organics	2.15	198107278	4422.609 ug/ml

104% ✓ MT

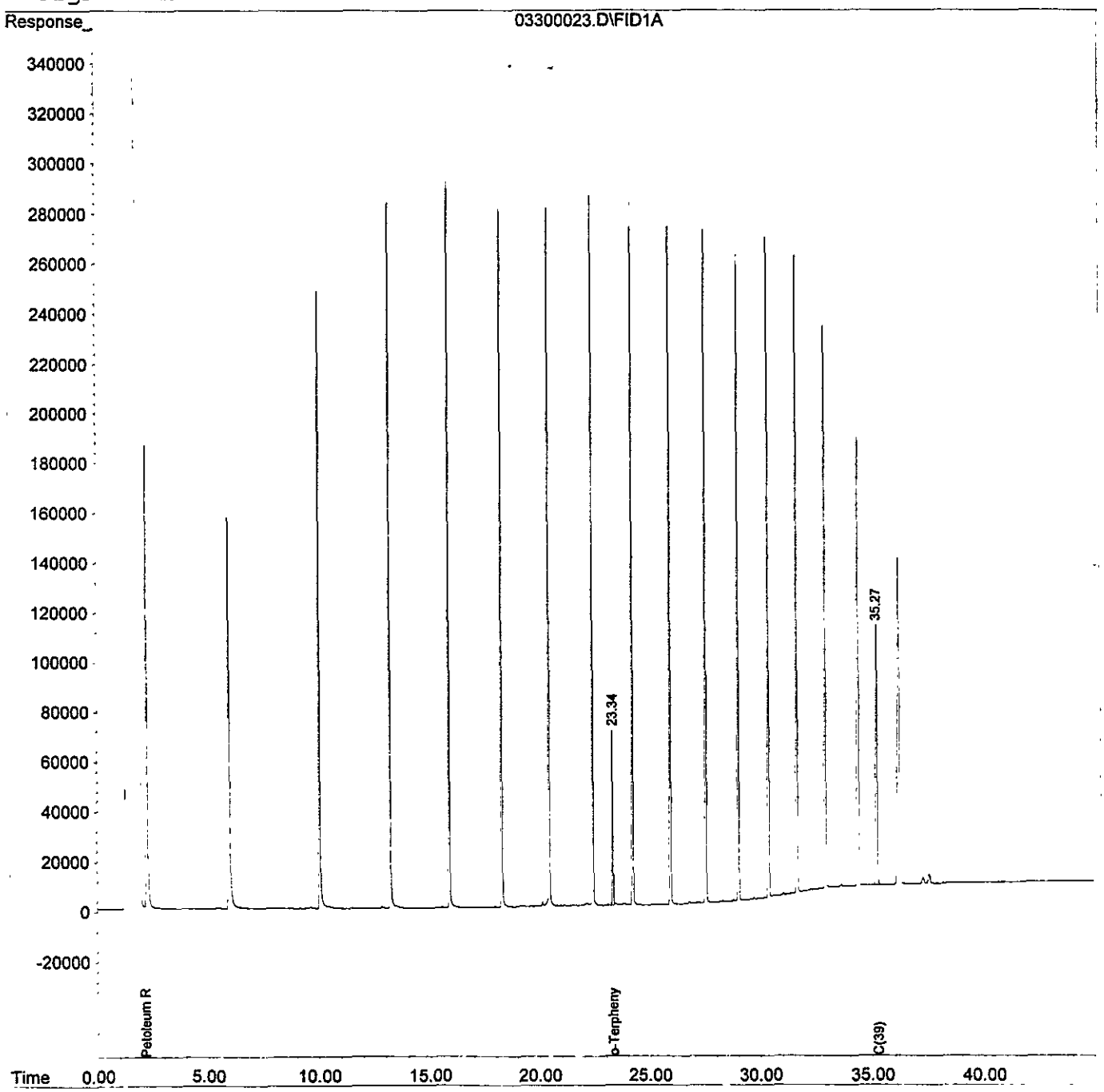
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\1\DATA\033000\03300023.D Vial: 14
Acq On : 31 Mar 2000 10:47 am Operator: MT
Sample : 4250 PHS PRO CCV Inst : DUAL FID
Misc : Multiplr: 1.00
IntFile : PRO0914.e
Quant Time: Mar 31 11:39 2000 Quant Results File: PRO0112.RES

Quant Method : C:\HPCHEM\1\METHODS\PRO0112.M (Chemstation Integrator)
Title : FL PRO
Last Update : Thu Mar 09 14:46:05 2000
Response via : Multiple Level Calibration
DataAcq Meth : PRO0112.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\033000\03300011.D Vial: 2
Acq On : 30 Mar 2000 10:09 pm Operator: MT
Sample : 4250 PHS PRO CCV Inst : DUAL FID
Misc : Multiplr: 1.00
IntFile : PRO0914.e
Quant Time: Mar 31 9:19 2000 Quant Results File: PRO0112.RES

Quant Method : C:\HPCHEM\1\METHODS\PRO0112.M (Chemstation Integrator)
Title : FL PRO
Last Update : Thu Mar 09 14:46:05 2000
Response via : Initial Calibration
DataAcq Meth : PRO0112.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) SC o-Terphenyl	23.35	1932905	46.318 ug/mlm
Spiked Amount 50.000		Recovery =	92.64% ✓MT
3) SC C(39)	35.29	4980449	129.614 ug/mlm
Spiked Amount 150.000		Recovery =	86.41% ✓MT
Target Compounds			
1) HM Petoleum Range Organics	2.15	208845782	4712.787 ug/ml

111% ✓
MT

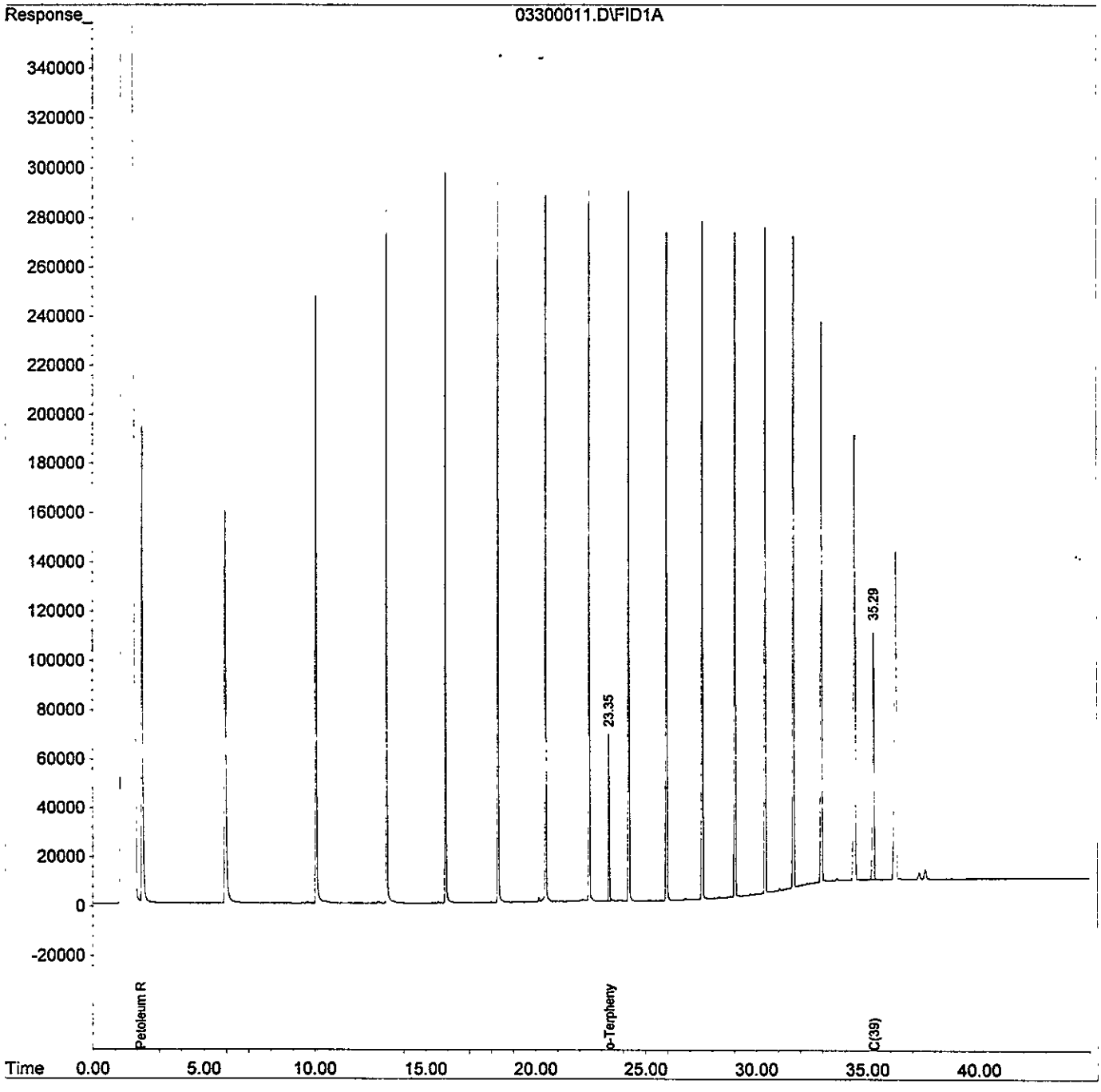
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\1\DATA\033000\03300011.D Vial: 2
Acq On : 30 Mar 2000 10:09 pm Operator: MT
Sample : 4250 PHS PRO CCV Inst : DUAL FID
Misc : Multiplr: 1.00
IntFile : PRO0914.e
Quant Time: Mar 31 9:19 2000 Quant Results File: PRO0112.RES

Quant Method : C:\HPCHEM\1\METHODS\PRO0112.M (Chemstation Integrator)
Title : FL PRO
Last Update : Thu Mar 09 14:46:05 2000
Response via : Multiple Level Calibration
DataAcq Meth : PRO0112.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\032800\03280046.D Vial: 23
Acq On : 30 Mar 2000 7:29 am Operator: MT
Sample : 4250 PHS PRO CCV Inst : DUAL FID
Misc : Multiplr: 1.00
IntFile : PRO0914.e
Quant Time: Mar 30 10:52 2000 Quant Results File: PRO0112.RES

Quant Method : C:\HPCHEM\1\METHODS\PRO0112.M (Chemstation Integrator)
Title : FL PRO
Last Update : Thu Mar 09 14:46:05 2000
Response via : Initial Calibration
DataAcq Meth : PRO0112.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) SC o-Terphenyl	23.35	2365445	56.683 ug/mlm
Spiked Amount 50.000	Recovery = 113.37%		
3) SC C(39)	35.30	6039363	157.172 ug/mlm
Spiked Amount 150.000	Recovery = 104.78%		
Target Compounds			
1) HM Petoleum Range Organics	2.15	230440904	5296.335 ug/ml

125% x
MT

NA
Sequence

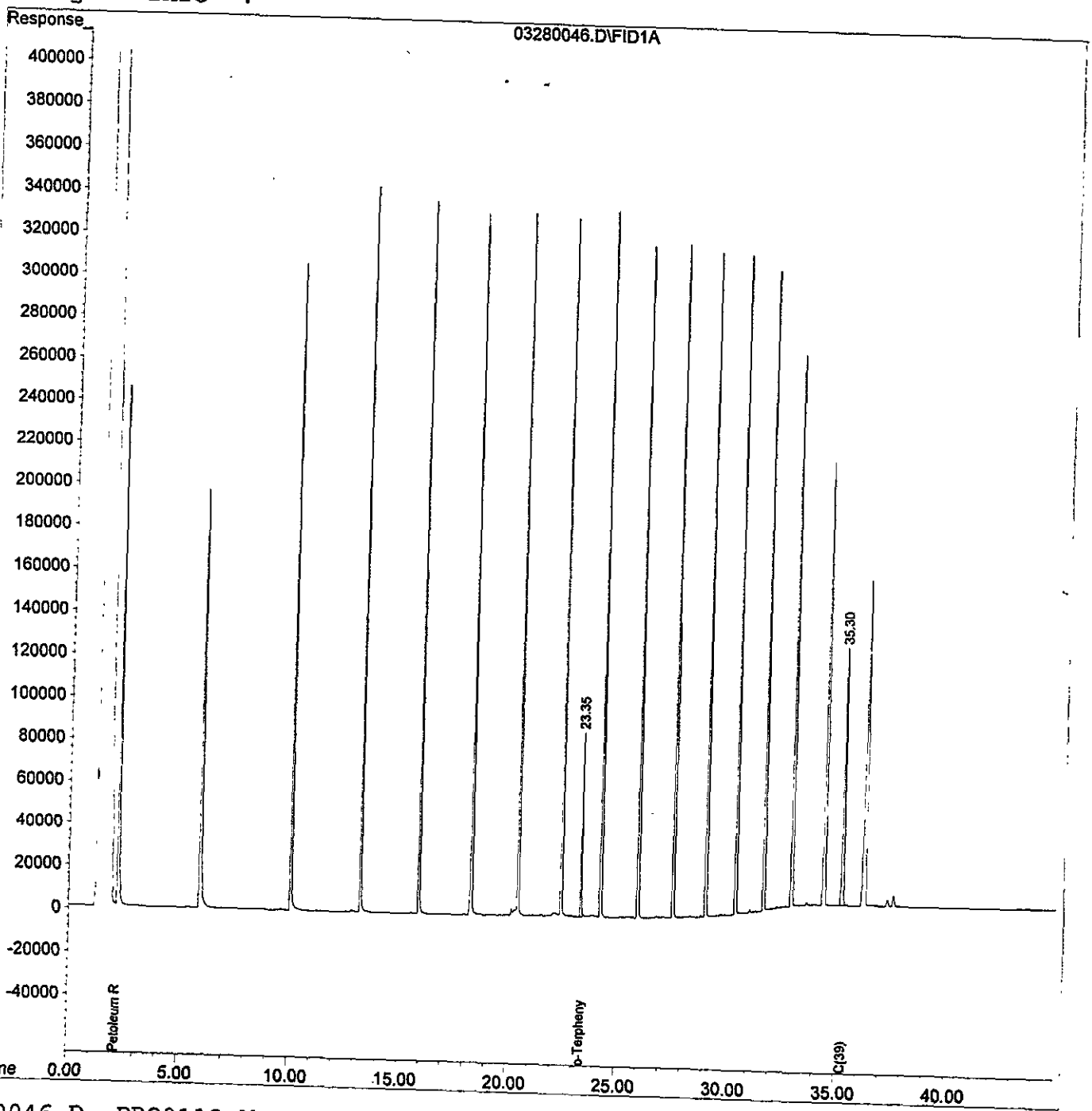
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\1\DATA\032800\03280046.D Vial: 23
Acq On : 30 Mar 2000 7:29 am Operator: MT
Sample : 4250 PHS PRO CCV Inst : DUAL FID
Misc : Multiplr: 1.00
IntFile : PRO0914.e
Quant Time: Mar 30 10:52 2000 Quant Results File: PRO0112.RES

Quant Method : C:\HPCHEM\1\METHODS\PRO0112.M (Chemstation Integrator)
Title : FL PRO
Last Update : Thu Mar 09 14:46:05 2000
Response via : Multiple Level Calibration
DataAcq Meth : PRO0112.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\032800\03280036.D Vial: 23
Acq On : 29 Mar 2000 10:33 pm Operator: MT
Sample : 4250 PHS PRO CCV Inst : DUAL FID
Misc : Multiplr: 1.00
IntFile : PRO0914.e
Quant Time: Mar 30 10:46 2000 Quant Results File: PRO0112.RES

Quant Method : C:\HPCHEM\1\METHODS\PRO0112.M (Chemstation Integrator)
Title : FL PRO
Last Update : Thu Mar 09 14:46:05 2000
Response via : Initial Calibration
DataAcq Meth : PRO0112.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) SC o-Terphenyl	23.36	2204802	52.834 ug/mlm
Spiked Amount 50.000	Recovery = 105.67%		
3) SC C(39)	35.31	5705189	148.475 ug/mlm
Spiked Amount 150.000	Recovery = 98.98%		
Target Compounds			
1) HM Petoleum Range Organics	2.15	235025182	5420.213 ug/ml

128% X
MT

RR
Request

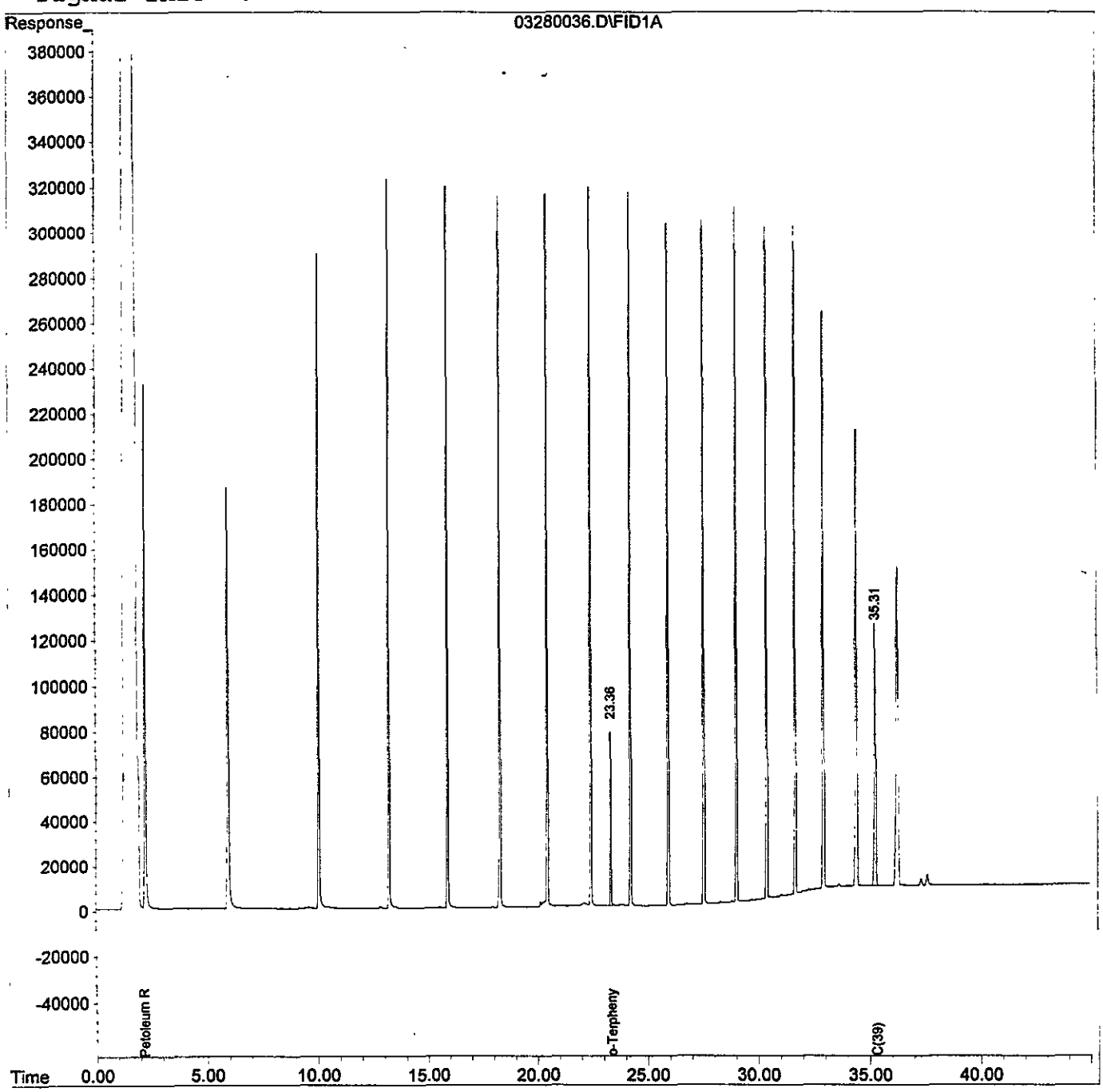
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\1\DATA\032800\03280036.D Vial: 23
Acq On : 29 Mar 2000 10:33 pm Operator: MT
Sample : 4250 PHS PRO CCV Inst : DUAL FID
Misc : Multiplr: 1.00
IntFile : PRO0914.e
Quant Time: Mar 30 10:46 2000 Quant Results File: PRO0112.RES

Quant Method : C:\HPCHEM\1\METHODS\PRO0112.M (Chemstation Integrator)
Title : FL PRO
Last Update : Thu Mar 09 14:46:05 2000
Response via : Multiple Level Calibration
DataAcq Meth : PRO0112.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\032800\03280024.D Vial: 14
Acq On : 29 Mar 2000 11:02 am Operator: MT
Sample : 4250 PHS PRO CCV Inst : : DUAL FID
Misc : Multiplr: 1.00
IntFile : PRO0914.e
Quant Time: Mar 29 11:49 2000 Quant Results File: PRO0112.RES

Quant Method : C:\HPCHEM\1\METHODS\PRO0112.M (Chemstation Integrator)
Title : FL PRO
Last Update : Thu Mar 09 14:46:05 2000
Response via : Initial Calibration
DataAcq Meth : PRO0112.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) SC o-Terphenyl	23.37	1968579	47.173 ug/mlm
Spiked Amount 50.000	Recovery =		94.35% ✓ MT
3) SC C(39)	35.31	4976559	129.513 ug/mlm
Spiked Amount 150.000	Recovery =		86.34% ✓ MT
Target Compounds			
1) HM Petoleum Range Organics	2.15	211376369	4781.169 ug/ml

112% ✓
MT

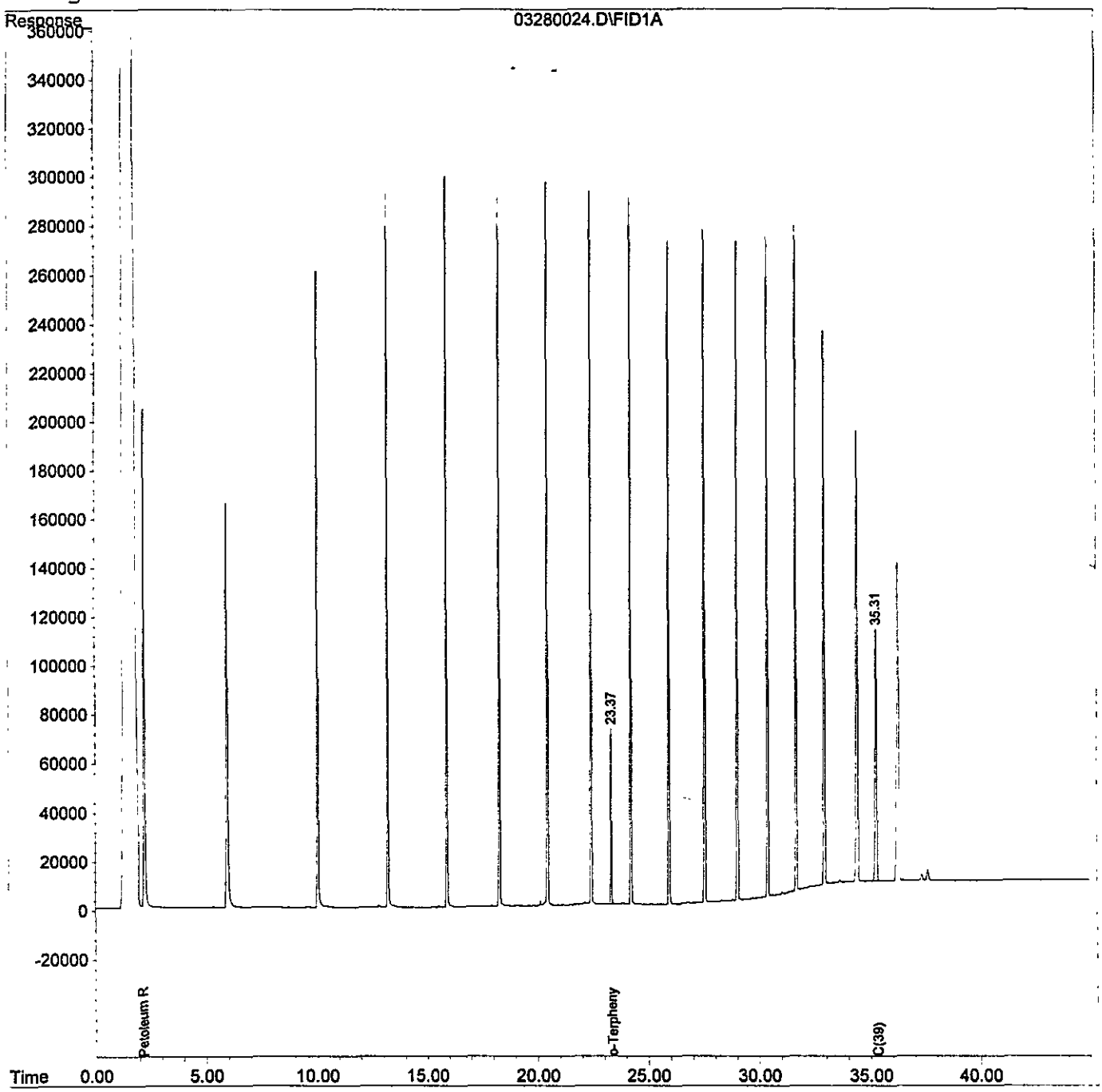
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\1\DATA\032800\03280024.D Vial: 14
Acq On : 29 Mar 2000 11:02 am Operator: MT
Sample : 4250 PHS PRO CCV Inst : DUAL FID
Misc : Multiplr: 1.00
IntFile : PRO0914.e
Quant Time: Mar 29 11:49 2000 Quant Results File: PRO0112.RES

Quant Method : C:\HPCHEM\1\METHODS\PRO0112.M (Chemstation Integrator)
Title : FL PRO
Last Update : Thu Mar 09 14:46:05 2000
Response via : Multiple Level Calibration
DataAcq Meth : PRO0112.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\032800\03280012.D Vial: 2
Acq On : 29 Mar 2000 12:17 am Operator: MT
Sample : 4250 PHS PRO CCV Inst : DUAL FID
Misc : Multiplr: 1.00
IntFile : PRO0914.e
Quant Time: Mar 29 10:58 2000 Quant Results File: PRO0112.RES

Quant Method : C:\HPCHEM\1\METHODS\PRO0112.M (Chemstation Integrator)
Title : FL PRO
Last Update : Thu Mar 09 14:46:05 2000
Response via : Initial Calibration
DataAcq Meth : PRO0112.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) SC o-Terphenyl	23.39	2113988	50.657 ug/mlm
Spiked Amount 50.000	Recovery =		101.31% ✓MT
3) SC C(39)	35.36	5411447	140.831 ug/mlm
Spiked Amount 150.000	Recovery =		93.89% ✓MT
Target Compounds			
1) HM Petoleum Range Organics	2.15	236326839	5455.386 ug/ml

1288 X
MT

Fail

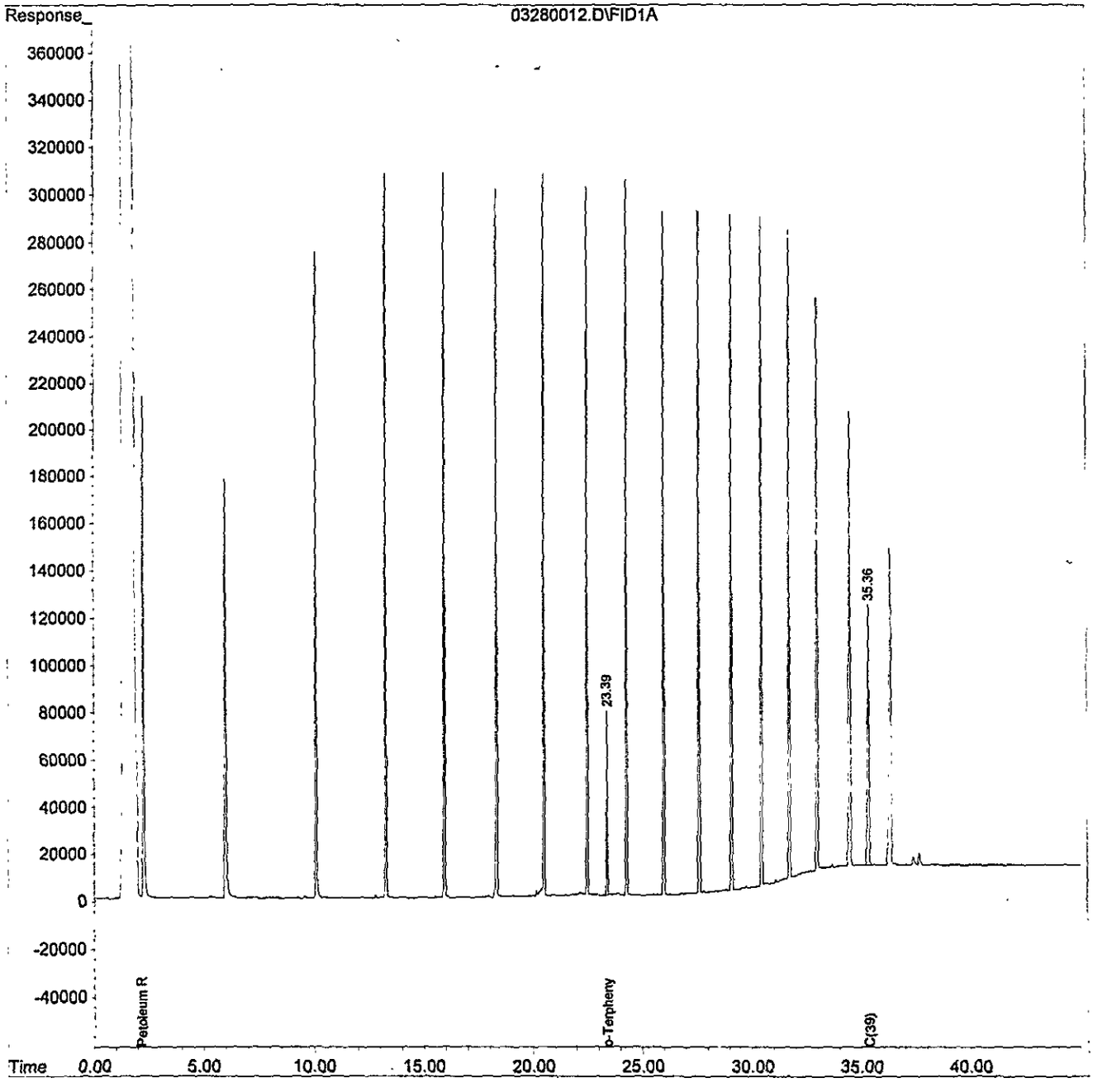
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\1\DATA\032800\03280012.D Vial: 2
Acq On : 29 Mar 2000 12:17 am Operator: MT
Sample : 4250 PHS PRO CCV Inst : DUAL FID
Misc : Multiplr: 1.00
IntFile : PRO0914.e
Quant Time: Mar 29 10:58 2000 Quant Results File: PRO0112.RES

Quant Method : C:\HPCHEM\1\METHODS\PRO0112.M (Chemstation Integrator)
Title : FL PRO
Last Update : Thu Mar 09 14:46:05 2000
Response via : Multiple Level Calibration
DataAcq Meth : PRO0112.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\033000\03300014.D Vial: 5
Acq On : 31 Mar 2000 12:50 am Operator: MT
Sample : AB89497 Inst : DUAL FID
Misc : 23975 1000ml Multiplr: 1.00
IntFile : PRO0914.e
Quant Time: Mar 31 11:28 2000 Quant Results File: PRO0112.RES

Quant Method : C:\HPCHEM\1\METHODS\PRO0112.M (Chemstation Integrator)
Title : FL PRO
Last Update : Thu Mar 09 14:46:05 2000
Response via : Initial Calibration
DataAcq Meth : PRO0112.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) SC o-Terphenyl	23.35	941979	22.573 ug/mlm
Spiked Amount 50.000	Recovery =		45.15% ✗ MT
3) SC C(39)	35.26	2886348	75.116 ug/mlm
Spiked Amount 150.000	Recovery =		50.08% ✓ MT
Target Compounds			
1) HM Petoleum Range Organics	2.15	49831286	415.861 ug/ml /1000ml = 0.42 J ppm

MT

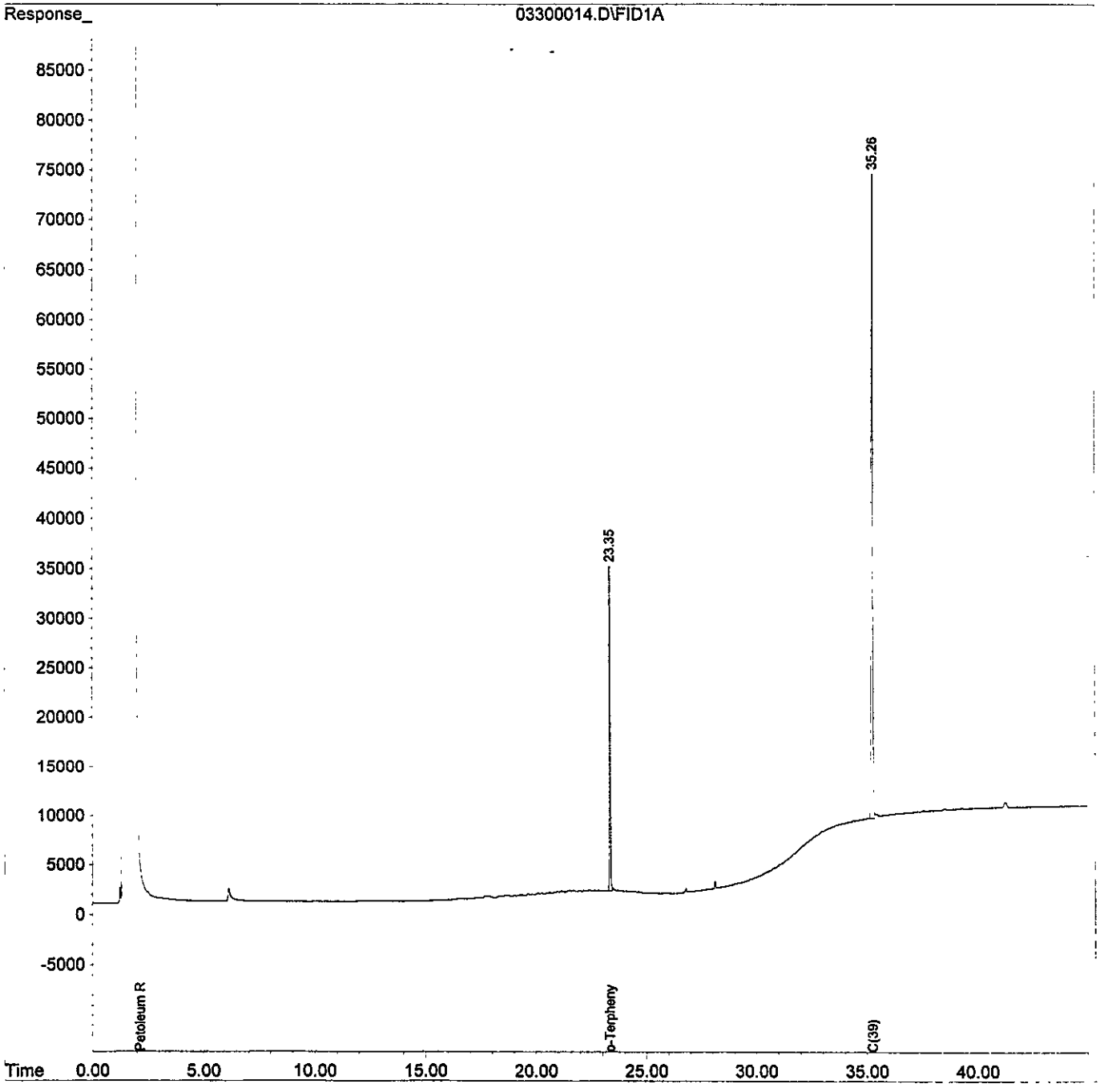
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\1\DATA\033000\03300014.D Vial: 5
Acq On : 31 Mar 2000 12:50 am Operator: MT
Sample : AB89497 Inst : DUAL FID
Misc : 23975 1000ml Multiplr: 1.00
IntFile : PRO0914.e
Quant Time: Mar 31 11:28 2000 Quant Results File: PRO0112.RES

Quant Method : C:\HPCHEM\1\METHODS\PRO0112.M (Chemstation Integrator)
Title : FL PRO
Last Update : Thu Mar 09 14:46:05 2000
Response via : Multiple Level Calibration
DataAcq Meth : PRO0112.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\033000\03300015.D Vial: 6
Acq On : 31 Mar 2000 1:44 am Operator: MT
Sample : AB89498 Inst : DUAL FID
Misc : 23975 1000ml Multiplr: 1.00
IntFile : PRO0914.e
Quant Time: Mar 31 11:28 2000 Quant Results File: PRO0112.RES

Quant Method : C:\HPCHEM\1\METHODS\PRO0112.M (Chemstation Integrator)
Title : FL PRO
Last Update : Thu Mar 09 14:46:05 2000
Response via : Initial Calibration
DataAcq Meth : PRO0112.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) SC o-Terphenyl	23.35	881469	21.123 ug/mlm
Spiked Amount 50.000	Recovery =		42.25% x MT
3) SC C(39)	35.24	1777076	46.248 ug/mlm
Spiked Amount 150.000	Recovery =		30.83% x MT
Target Compounds			
1) HM Petoleum Range Organics	2.15	46646999	329.814 ug/ml / 1000ml = 0.33 J ppm MT

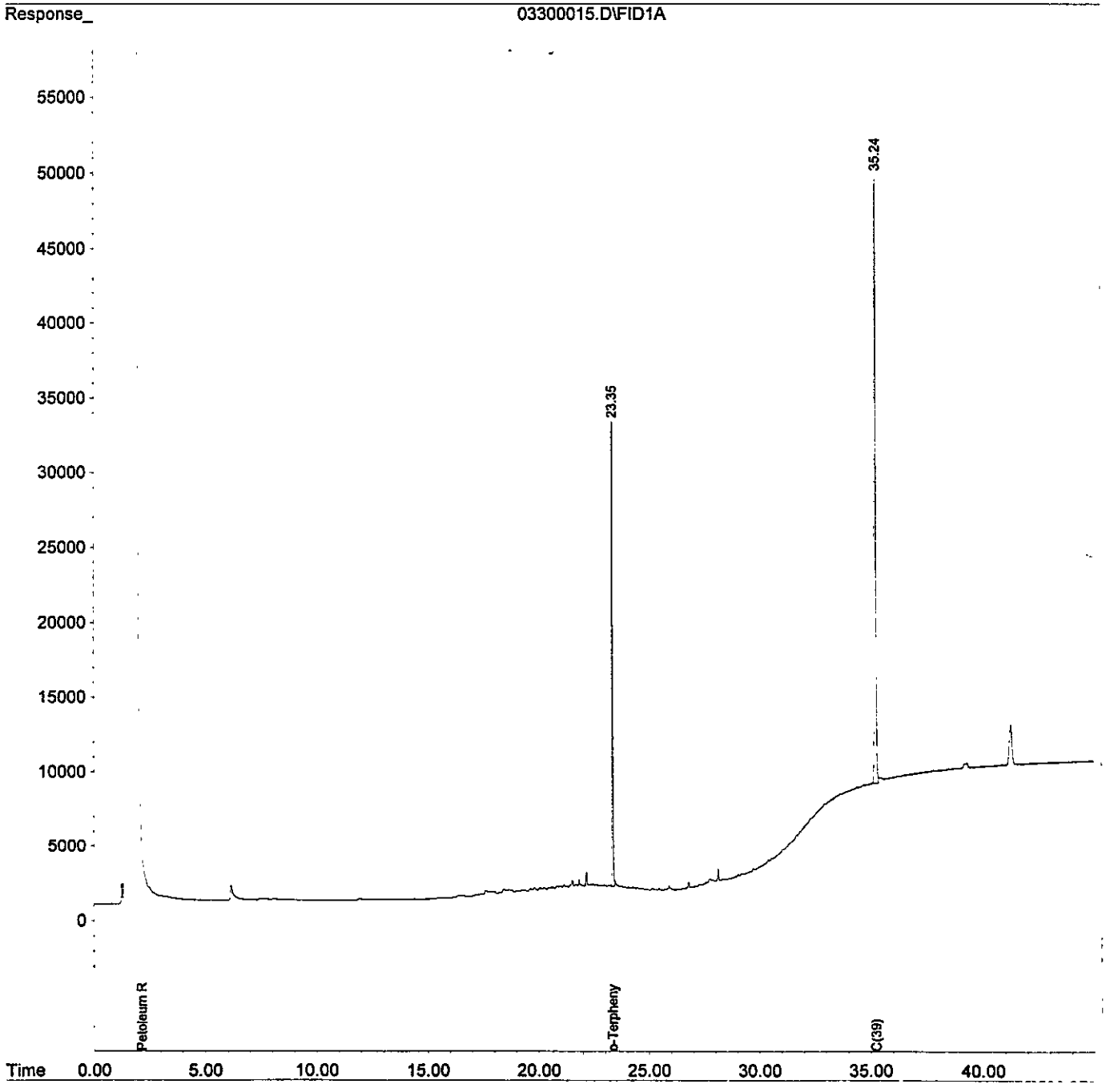
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\1\DATA\033000\03300015.D Vial: 6
Acq On : 31 Mar 2000 1:44 am Operator: MT
Sample : AB89498 Inst : DUAL FID
Misc : 23975 1000ml Multiplr: 1.00
IntFile : PRO0914.e
Quant Time: Mar 31 11:28 2000 Quant Results File: PRO0112.RES

Quant Method : C:\HPCHEM\1\METHODS\PRO0112.M (Chemstation Integrator)
Title : FL PRO
Last Update : Thu Mar 09 14:46:05 2000
Response via : Multiple Level Calibration
DataAcq Meth : PRO0112.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\033000\03300016.D Vial: 7
Acq On : 31 Mar 2000 2:37 am Operator: MT
Sample : AB89499 Inst : DUAL FID
Misc : 23975 1000ml Multiplr: 1.00
IntFile : PRO0914.e
Quant Time: Mar 31 11:29 2000 Quant Results File: PRO0112.RES

Quant Method : C:\HPCHEM\1\METHODS\PRO0112.M (Chemstation Integrator)
Title : FL PRO
Last Update : Thu Mar 09 14:46:05 2000
Response via : Initial Calibration
DataAcq Meth : PRO0112.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) SC o-Terphenyl	23.35	604372	14.483 ug/mlm
Spiked Amount 50.000	Recovery =		28.97% NT
3) SC C(39)	35.26	3117044	81.120 ug/mlm
Spiked Amount 150.000	Recovery =		54.08% NT
Target Compounds			
1) HM Petoleum Range Organics	2.15	89515789	1488.225 ug/ml /1000ml = 1.5 ppm NT

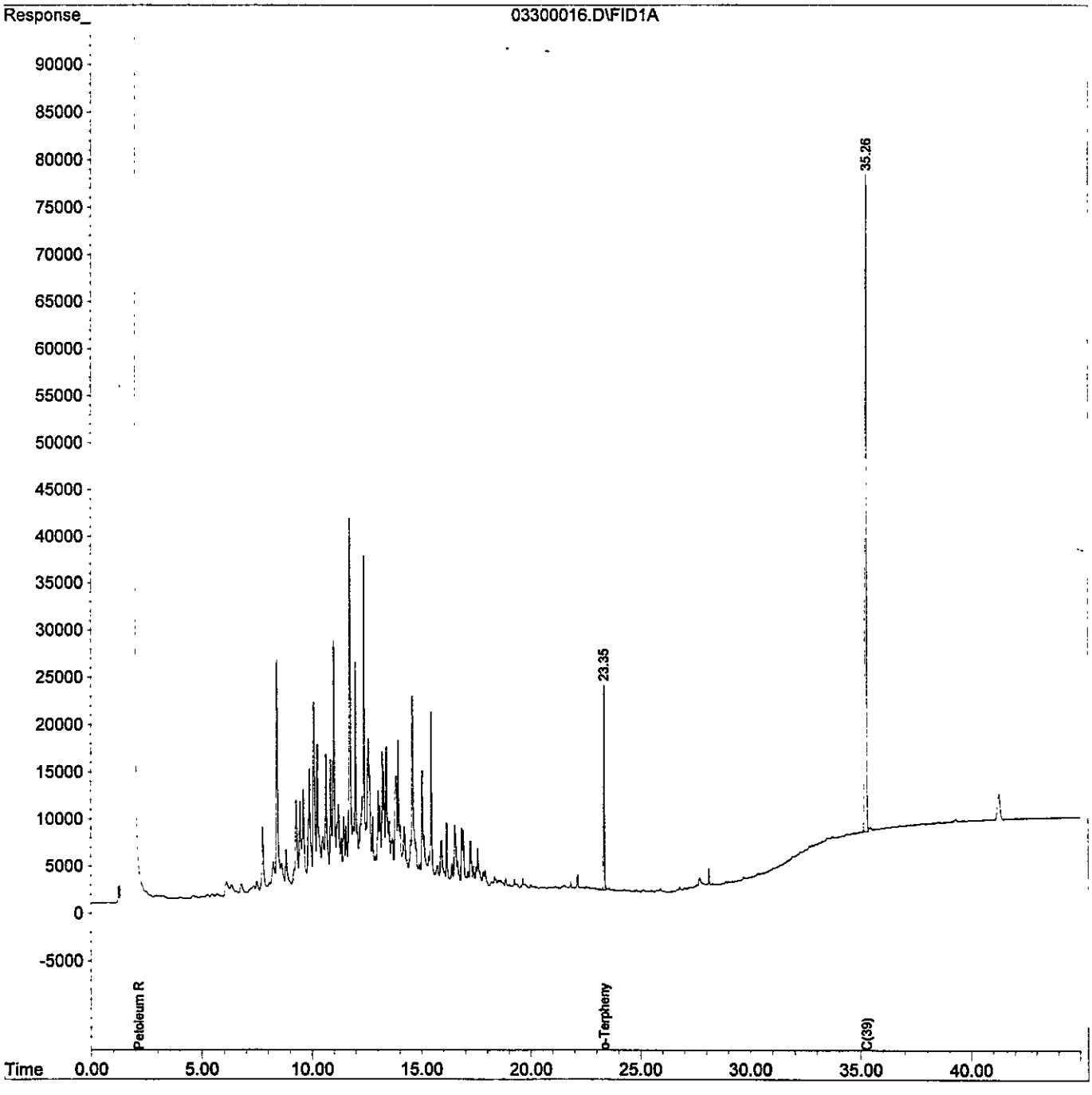
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\1\DATA\033000\03300016.D Vial: 7
Acq On : 31 Mar 2000 2:37 am Operator: MT
Sample : AB89499 Inst : DUAL FID
Misc : 23975 1000ml Multiplr: 1.00
IntFile : PRO0914.e
Quant Time: Mar 31 11:29 2000 Quant Results File: PRO0112.RES

Quant Method : C:\HPCHEM\1\METHODS\PRO0112.M (Chemstation Integrator)
Title : FL PRO
Last Update : Thu Mar 09 14:46:05 2000
Response via : Multiple Level Calibration
DataAcq Meth : PRO0112.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\033000\03300017.D Vial: 8
Acq On : 31 Mar 2000 3:31 am Operator: MT
Sample : AB89500 Inst : DUAL FID
Misc : 23975 1000ml Multiplr: 1.00
IntFile : PRO0914.e
Quant Time: Mar 31 11:30 2000 Quant Results File: PRO0112.RES

Quant Method : C:\HPCHEM\1\METHODS\PRO0112.M (Chemstation Integrator)
Title : FL PRO
Last Update : Thu Mar 09 14:46:05 2000
Response via : Initial Calibration
DataAcq Meth : PRO0112.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) SC o-Terphenyl	23.34	722355	17.310 ug/mlm
Spiked Amount 50.000	Recovery =		34.62% x MT
3) SC C(39)	35.25	2167287	56.403 ug/mlm
Spiked Amount 150.000	Recovery =		37.60% x MT
Target Compounds			
1) HM Petoleum Range Organics	2.15	351045714	8555.346 ug/ml /1000ml = 8.6ppm MT

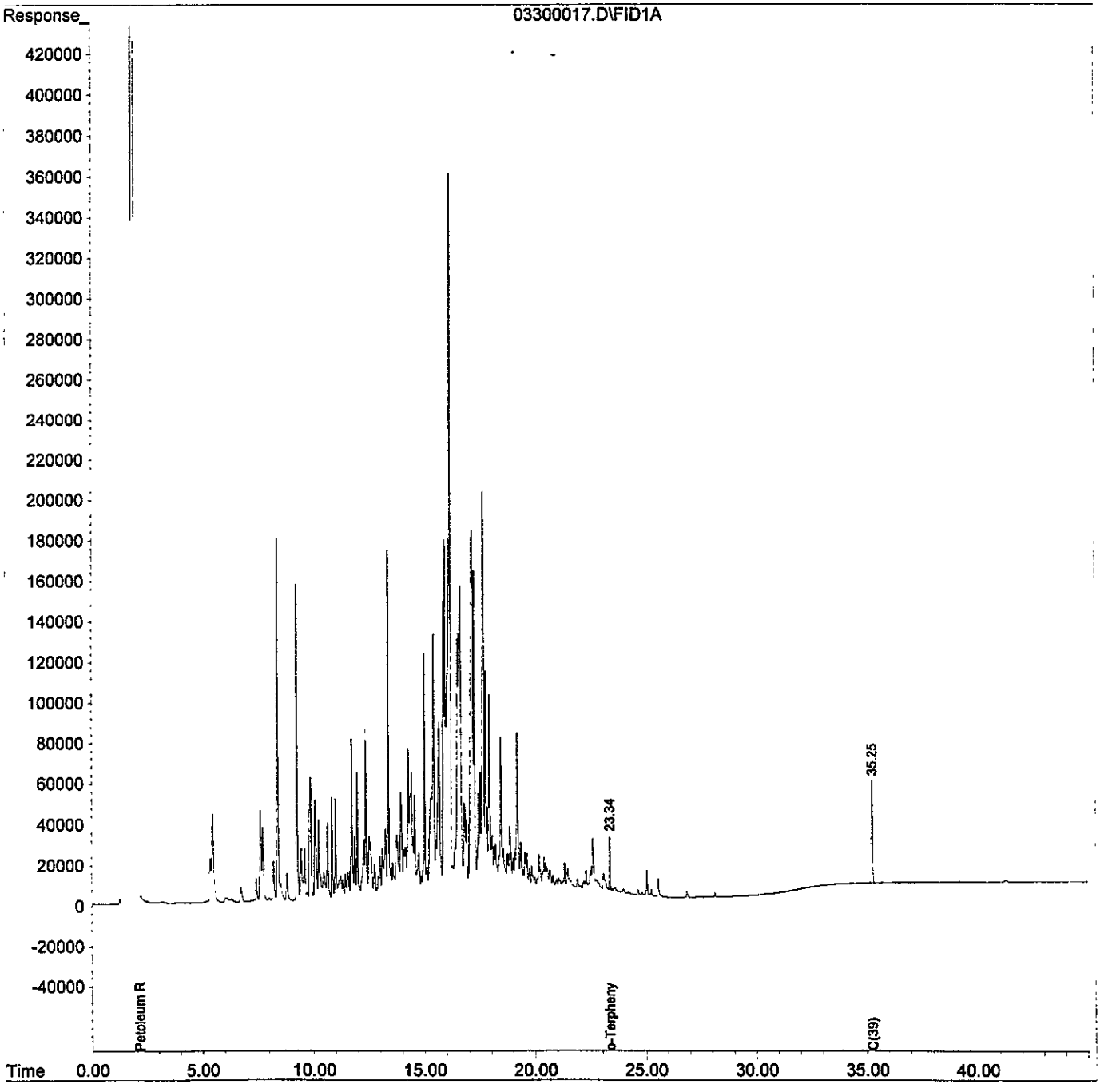
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\1\DATA\033000\03300017.D Vial: 8
Acq On : 31 Mar 2000 3:31 am Operator: MT
Sample : AB89500 Inst : DUAL FID
Misc : 23975 1000ml Multiplr: 1.00
IntFile : PRO0914.e
Quant Time: Mar 31 11:30 2000 Quant Results File: PRO0112.RES

Quant Method : C:\HPCHEM\1\METHODS\PRO0112.M (Chemstation Integrator)
Title : FL PRO
Last Update : Thu Mar 09 14:46:05 2000
Response via : Multiple Level Calibration
DataAcq Meth : PRO0112.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\033000\03300018.D Vial: 9
Acq On : 31 Mar 2000 4:24 am Operator: MT
Sample : AB89501 5X Inst : DUAL FID
Misc : 23975 1000ml Multiplr: 1.00
IntFile : PRO0914.e
Quant Time: Mar 31 11:40 2000 Quant Results File: PRO0112.RES

Quant Method : C:\HPCHEM\1\METHODS\PRO0112.M (Chemstation Integrator)
Title : FL PRO
Last Update : Thu Mar 09 14:46:05 2000
Response via : Initial Calibration
DataAcq Meth : PRO0112.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) SC o-Terphenyl	23.35	183050	4.386 ug/mlm
Spiked Amount 50.000	Recovery =		8.77% x5 = 44 x MT
3) SC C(39)	35.23	429921	11.189 ug/mlm
Spiked Amount 150.000	Recovery =		7.46% x5 = 37 x MT
Target Compounds			
1) HM Petoleum Range Organics	2.15	115716919	2196.238 ug/ml /1000ml =

2.196 x 5 =

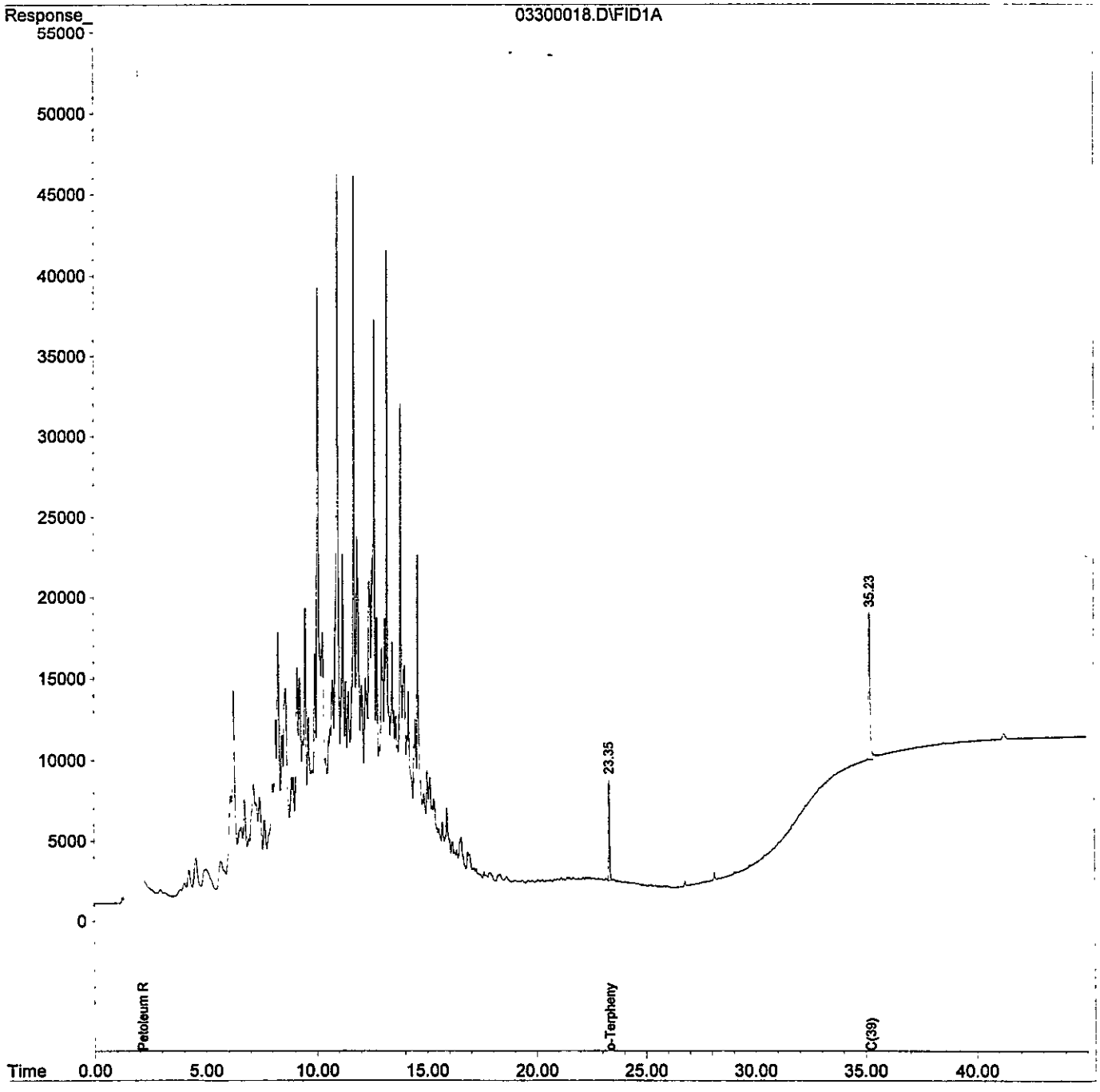
11 ppm
MT

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

Data File : C:\HPCHEM\1\DATA\033000\03300018.D Vial: 9
Acq On : 31 Mar 2000 4:24 am Operator: MT
Sample : AB89501 5X Inst : DUAL FID
Misc : 23975 1000ml Multiplr: 1.00
IntFile : PRO0914.e
Quant Time: Mar 31 11:40 2000 Quant Results File: PRO0112.RES

Quant Method : C:\HPCHEM\1\METHODS\PRO0112.M (Chemstation Integrator)
Title : FL PRO
Last Update : Thu Mar 09 14:46:05 2000
Response via : Multiple Level Calibration
DataAcq Meth : PRO0112.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\033000\03300019.D Vial: 10
Acq On : 31 Mar 2000 5:18 am Operator: MT
Sample : AB89502 Inst : DUAL FID
Misc : 23975 1000ml Multiplr: 1.00
IntFile : PRO0914.e
Quant Time: Mar 31 11:41 2000 Quant Results File: PRO0112.RES

Quant Method : C:\HPCHEM\1\METHODS\PRO0112.M (Chemstation Integrator)
Title : FL PRO
Last Update : Thu Mar 09 14:46:05 2000
Response via : Initial Calibration
DataAcq Meth : PRO0112.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) SC o-Terphenyl	23.35	1036118	24.828 ug/mlm
Spiked Amount 50.000	Recovery =		49.66% x MT
3) SC C(39)	35.25	2630878	68.468 ug/mlm
Spiked Amount 150.000	Recovery =		45.65% √ MT
Target Compounds			
1) HM Petoleum Range Organics	2.15	58893289	660.736 ug/ml /1000ml =

0.66J ppm
MT

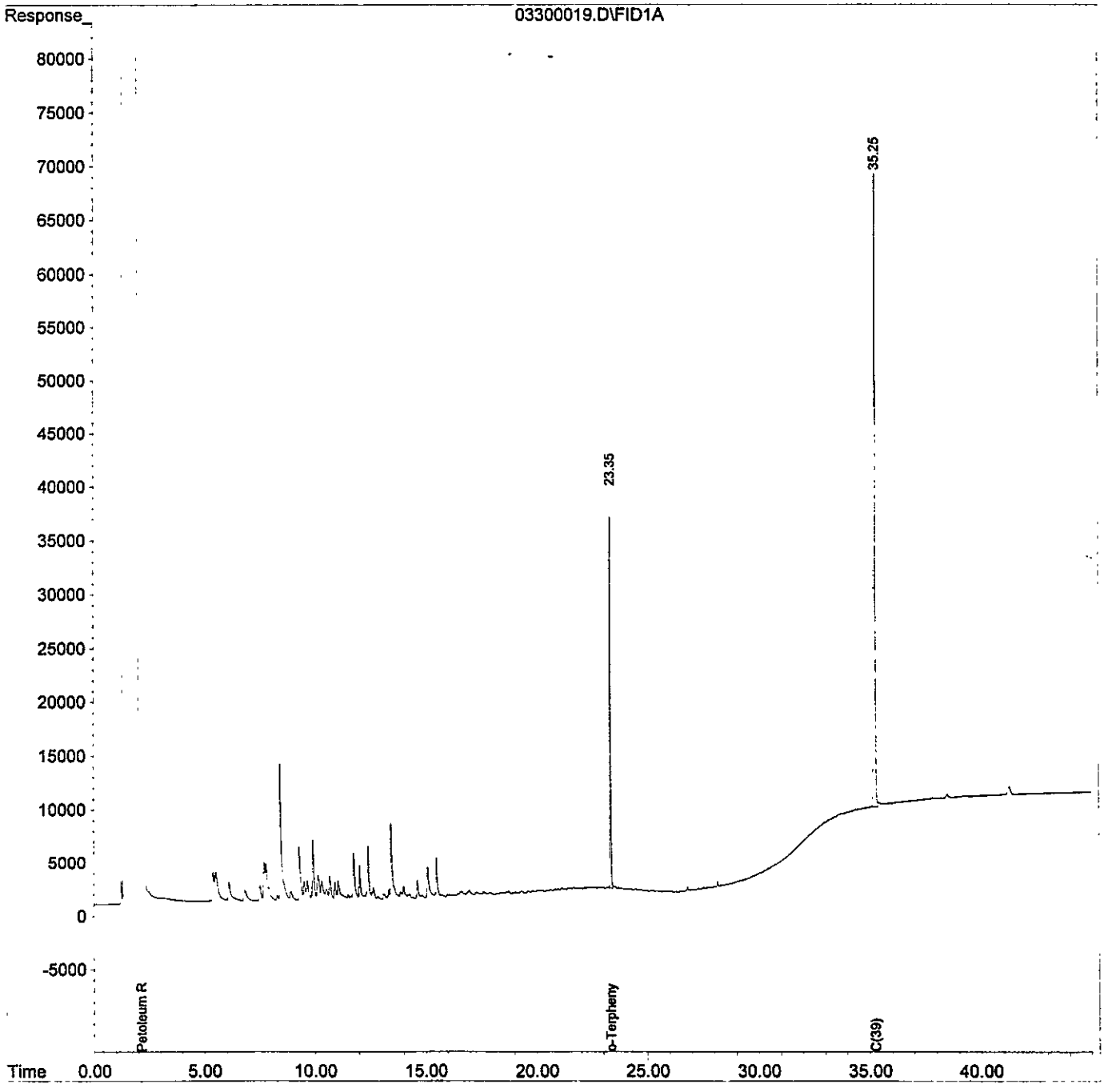
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\1\DATA\033000\03300019.D Vial: 10
Acq On : 31 Mar 2000 5:18 am Operator: MT
Sample : AB89502 Inst : DUAL FID
Misc : 23975 1000ml Multiplr: 1.00
IntFile : PRO0914.e
Quant Time: Mar 31 11:41 2000 Quant Results File: PRO0112.RES

Quant Method : C:\HPCHEM\1\METHODS\PRO0112.M (Chemstation Integrator)
Title : FL PRO
Last Update : Thu Mar 09 14:46:05 2000
Response via : Multiple Level Calibration
DataAcq Meth : PRO0112.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\033000\03300020.D Vial: 11
Acq On : 31 Mar 2000 6:12 am Operator: MT
Sample : AB89503 Inst : DUAL FID
Misc : 23975 1000ml Multiplr: 1.00
IntFile : PRO0914.e
Quant Time: Mar 31 11:42 2000 Quant Results File: PRO0112.RES

Quant Method : C:\HPCHEM\1\METHODS\PRO0112.M (Chemstation Integrator)
Title : FL PRO
Last Update : Thu Mar 09 14:46:05 2000
Response via : Initial Calibration
DataAcq Meth : PRO0112.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) SC o-Terphenyl	23.34	1260555	30.207 ug/mlm
Spiked Amount 50.000	Recovery =		60.41% x MT
3) SC C(39)	35.24	1969037	51.243 ug/mlm
Spiked Amount 150.000	Recovery =		34.16% x MT
Target Compounds			
1) HM Petoleum Range Organics	2.15	60923529	715.598 ug/ml / 1000ml = 0.715 ppm MT

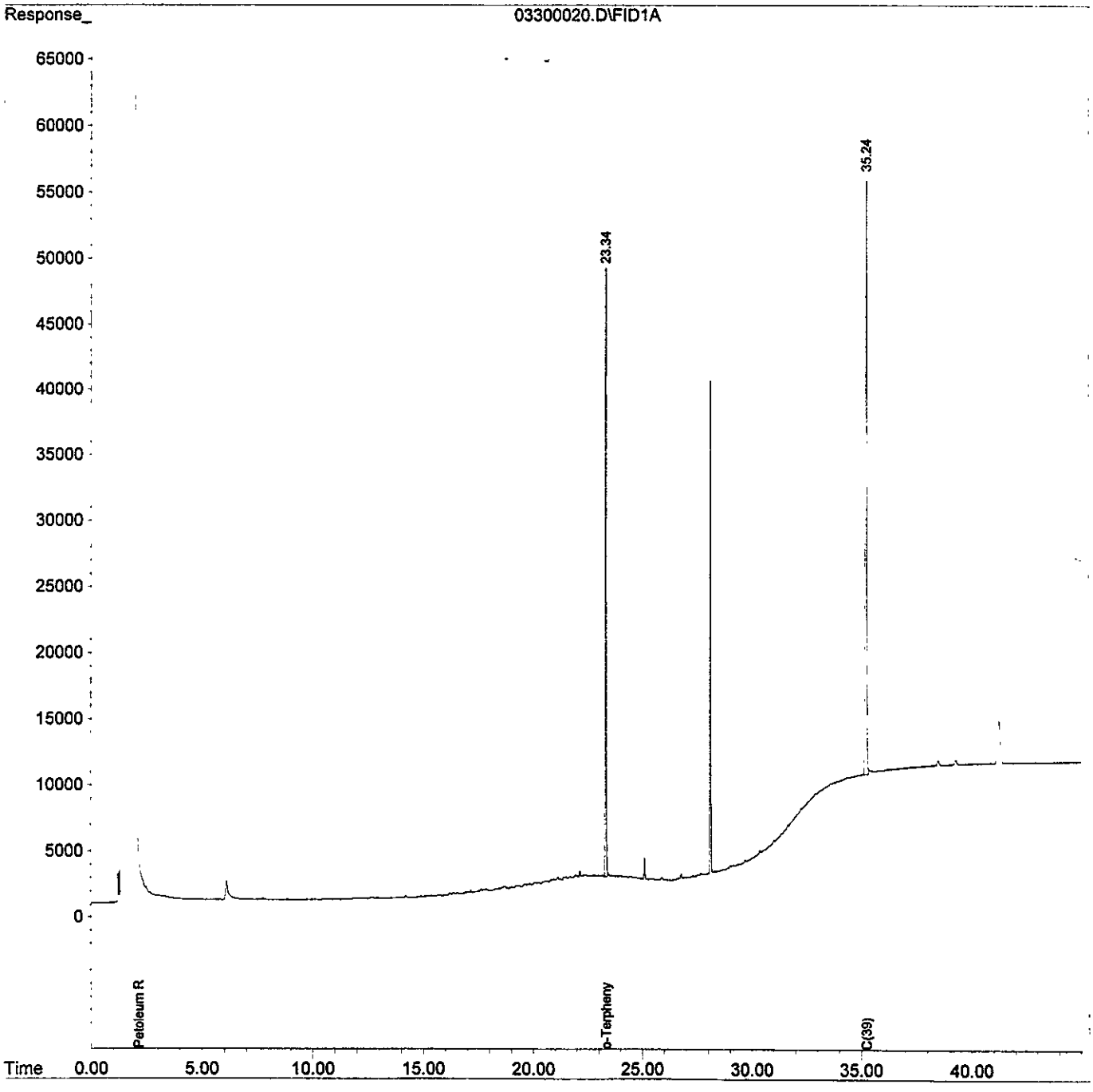
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\1\DATA\033000\03300020.D Vial: 11
Acq On : 31 Mar 2000 6:12 am Operator: MT
Sample : AB89503 Inst : DUAL FID
Misc : 23975 1000ml Multiplr: 1.00
IntFile : PRO0914.e
Quant Time: Mar 31 11:42 2000 Quant Results File: PRO0112.RES

Quant Method : C:\HPCHEM\1\METHODS\PRO0112.M (Chemstation Integrator)
Title : FL PRO
Last Update : Thu Mar 09 14:46:05 2000
Response via : Multiple Level Calibration
DataAcq Meth : PRO0112.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\033000\03300021.D Vial: 12
Acq On : 31 Mar 2000 7:05 am Operator: MT
Sample : AB89504 Inst : DUAL FID
Misc : 23975 1000ml Multiplr: 1.00
IntFile : PRO0914.e
Quant Time: Mar 31 11:43 2000 Quant Results File: PRO0112.RES

Quant Method : C:\HPCHEM\1\METHODS\PRO0112.M (Chemstation Integrator)
Title : FL PRO
Last Update : Thu Mar 09 14:46:05 2000
Response via : Initial Calibration
DataAcq Meth : PRO0112.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) SC o-Terpheny1	23.35	888273	21.286 ug/mlm
Spiked Amount 50.000	Recovery =		42.57% X MT
3) SC C(39)	35.24	1750527	45.557 ug/mlm
Spiked Amount 150.000	Recovery =		30.37% X MT
Target Compounds			
1) HM Petoleum Range Organics	2.15	54364901	538.369 ug/ml /1000ml =

0.54 ppm MT

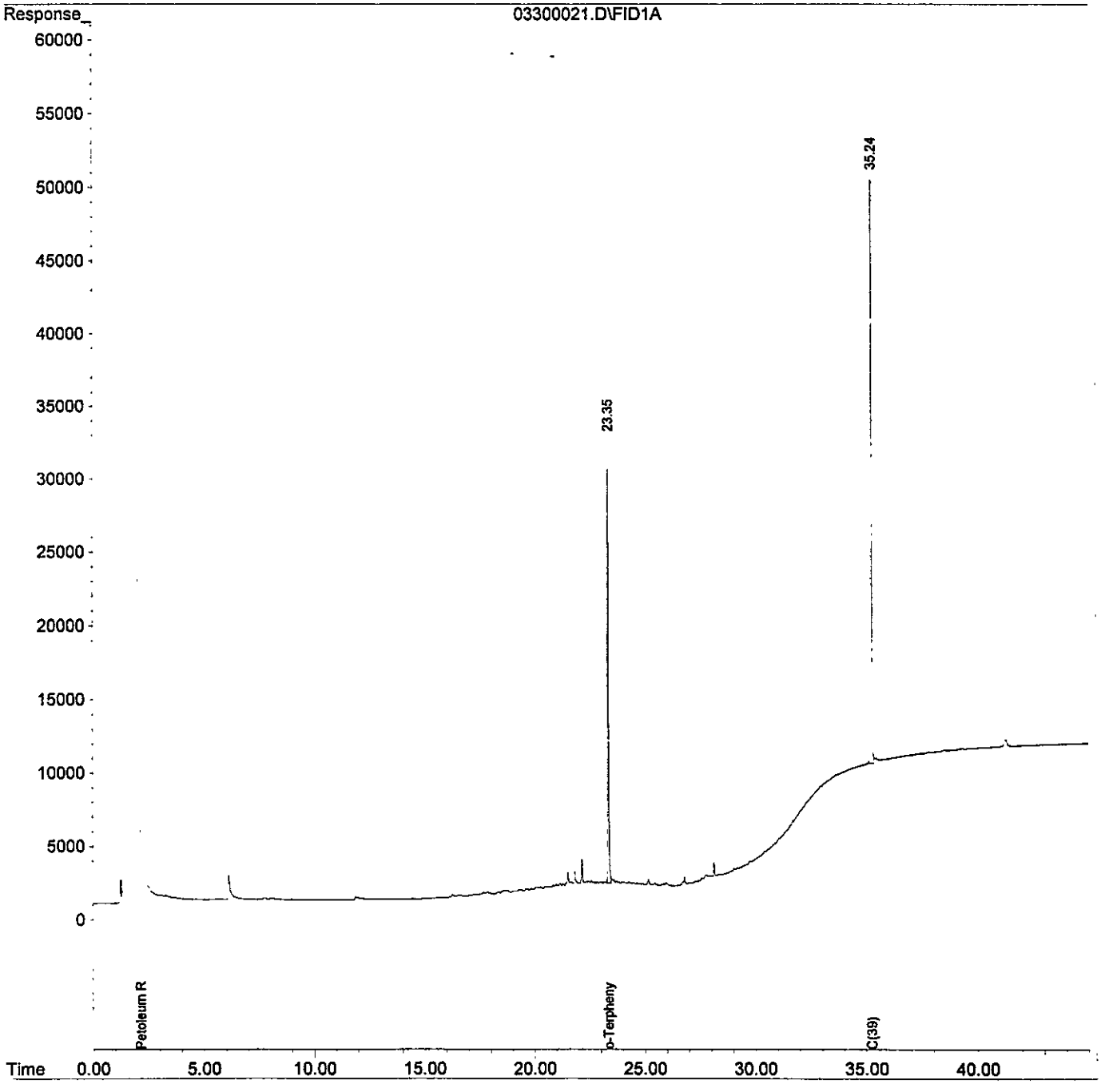
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\1\DATA\033000\03300021.D Vial: 12
Acq On : 31 Mar 2000 7:05 am Operator: MT
Sample : AB89504 Inst : DUAL FID
Misc : 23975 1000ml Multiplr: 1.00
IntFile : PRO0914.e
Quant Time: Mar 31 11:43 2000 Quant Results File: PRO0112.RES

Quant Method : C:\HPCHEM\1\METHODS\PRO0112.M (Chemstation Integrator)
Title : FL PRO
Last Update : Thu Mar 09 14:46:05 2000
Response via : Multiple Level Calibration
DataAcq Meth : PRO0112.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\033000\03300024.D Vial: 15
Acq On : 31 Mar 2000 11:48 am Operator: MT
Sample : AB89505 Inst : DUAL FID
Misc : 23975 1000ml Multiplr: 1.00
IntFile : PRO0914.e
Quant Time: Mar 31 12:35 2000 Quant Results File: PRO0112.RES

Quant Method : C:\HPCHEM\1\METHODS\PRO0112.M (Chemstation Integrator)
Title : FL PRO
Last Update : Thu Mar 09 14:46:05 2000
Response via : Initial Calibration
DataAcq Meth : PRO0112.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) SC o-Terphenyl	23.34	1143867	27.410 ug/mlm
Spiked Amount 50.000	Recovery =		54.82% XMT
3) SC C(39)	35.22f	1445883	37.629 ug/mlm
Spiked Amount 150.000	Recovery =		25.09% X MT
Target Compounds			
1) HM Petoleum Range Organics	2.15	60383510	701.006 ug/ml/1000ml = 0.705 ppm MT

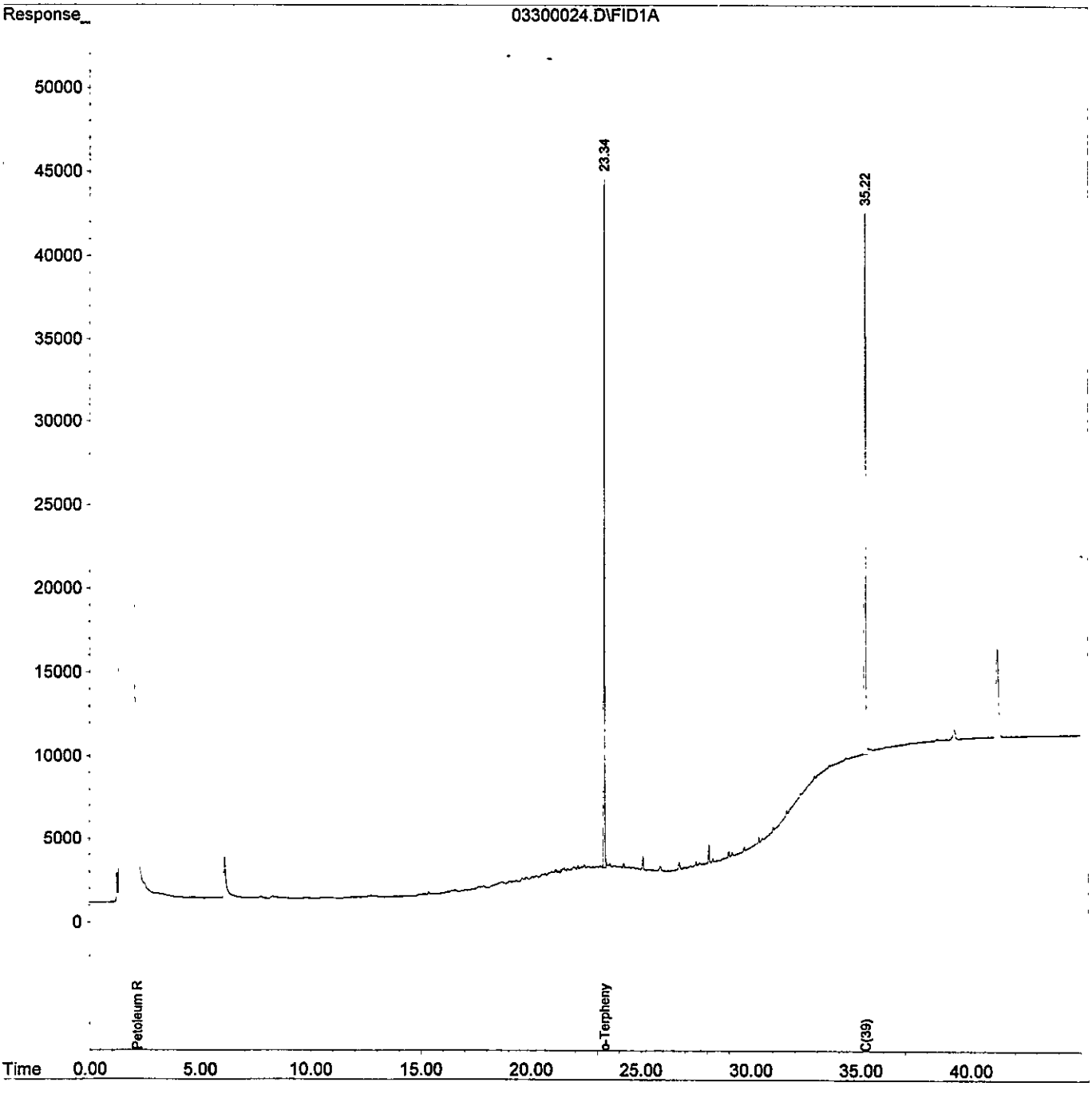
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\1\DATA\033000\03300024.D Vial: 15
Acq On : 31 Mar 2000 11:48 am Operator: MT
Sample : AB89505 Inst : DUAL FID
Misc : 23975 1000ml Multiplr: 1.00
IntFile : PRO0914.e
Quant Time: Mar 31 12:35 2000 Quant Results File: PRO0112.RES

Quant Method : C:\HPCHEM\1\METHODS\PRO0112.M (Chemstation Integrator)
Title : FL PRO
Last Update : Thu Mar 09 14:46:05 2000
Response via : Multiple Level Calibration
DataAcq Meth : PRO0112.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\033000\03300025.D Vial: 16
Acq On : 31 Mar 2000 12:42 pm Operator: MT
Sample : AB89506 Inst : DUAL FID
Misc : 23975 1000ml Multiplr: 1.00
IntFile : PRO0914.e
Quant Time: Mar 31 14:17 2000 Quant Results File: PRO0112.RES

Quant Method : C:\HPCHEM\1\METHODS\PRO0112.M (Chemstation Integrator)
Title : FL PRO
Last Update : Thu Mar 09 14:46:05 2000
Response via : Initial Calibration
DataAcq Meth : PRO0112.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) SC o-Terphenyl	23.33	1055789	25.300 ug/mlm
Spiked Amount 50.000	Recovery =		50.60% x MT
3) SC C(39)	35.24	4032466	104.943 ug/mlm
Spiked Amount 150.000	Recovery =		69.96% ✓ MT
Target Compounds			
1) HM Petoleum Range Organics	2.15	50411829	431.549 ug/ml /1000ml =

0.435 ppm
MT

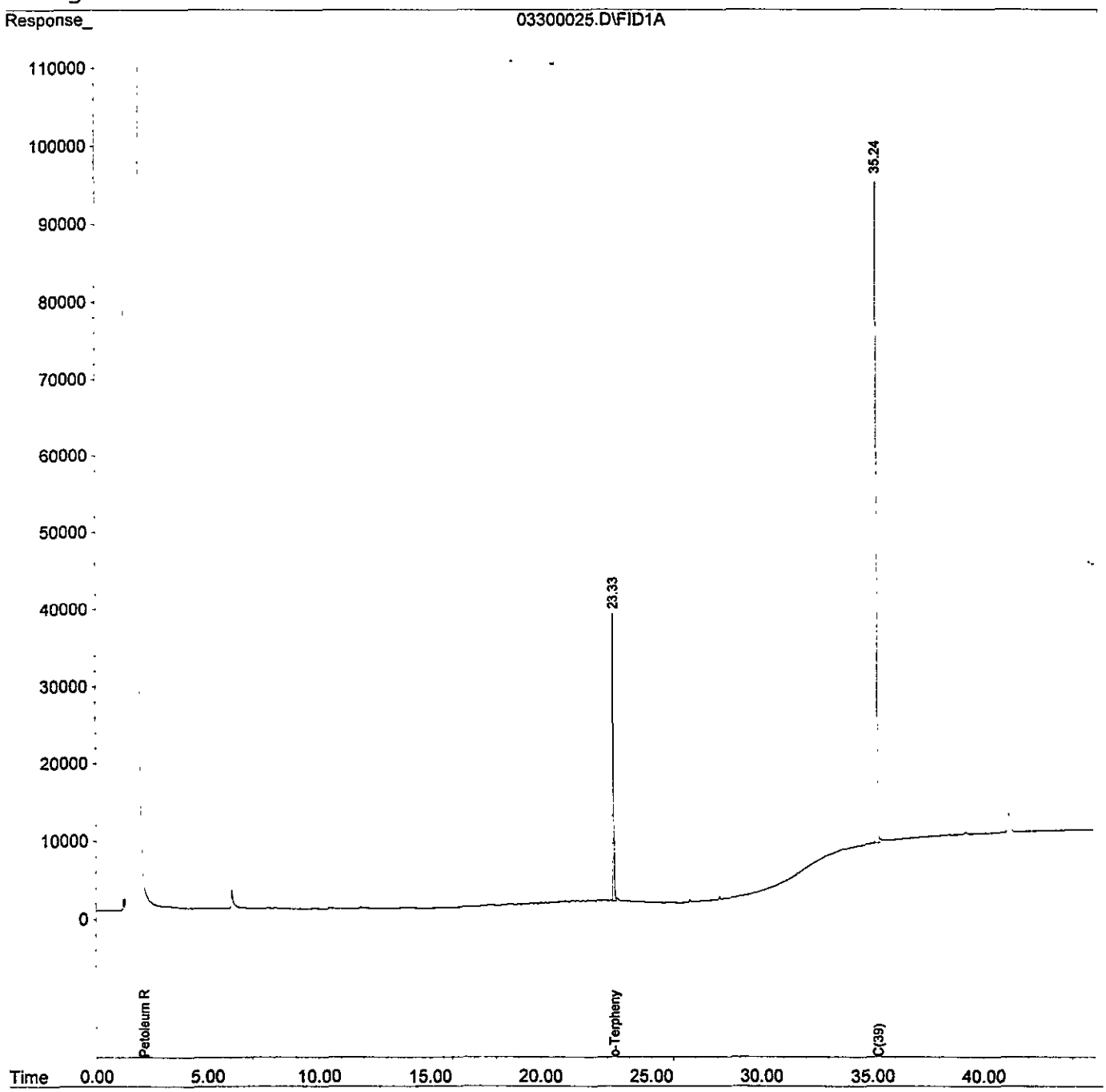
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\1\DATA\033000\03300025.D Vial: 16
Acq On : 31 Mar 2000 12:42 pm Operator: MT
Sample : AB89506 Inst : DUAL FID
Misc : 23975 1000ml Multiplr: 1.00
IntFile : PRO0914.e
Quant Time: Mar 31 14:17 2000 Quant Results File: PRO0112.RES

Quant Method : C:\HPCHEM\1\METHODS\PRO0112.M (Chemstation Integrator)
Title : FL PRO
Last Update : Thu Mar 09 14:46:05 2000
Response via : Multiple Level Calibration
DataAcq Meth : PRO0112.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\033000\03300026.D Vial: 17
Acq On : 31 Mar 2000 1:46 pm Operator: MT
Sample : AB89507 Inst : DUAL FID
Misc : 23975 1000ml Multiplr: 1.00
IntFile : PRO0914.e
Quant Time: Mar 31 16:30 2000 Quant Results File: PRO0112.RES

Quant Method : C:\HPCHEM\1\METHODS\PRO0112.M (Chemstation Integrator)
Title : FL PRO
Last Update : Thu Mar 09 14:46:05 2000
Response via : Initial Calibration
DataAcq Meth : PRO0112.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) SC o-Terphenyl	23.33	896552	21.484 ug/mlm
Spiked Amount 50.000	Recovery =		42.97% ✓ MT
3) SC C(39)	35.23	2818307	73.345 ug/mlm
Spiked Amount 150.000	Recovery =		48.90% ✓ MT
Target Compounds			
1) HM Petoleum Range Organics	2.15	168019455	3609.569 ug/ml /1000ml =

3.6 ppm
MT

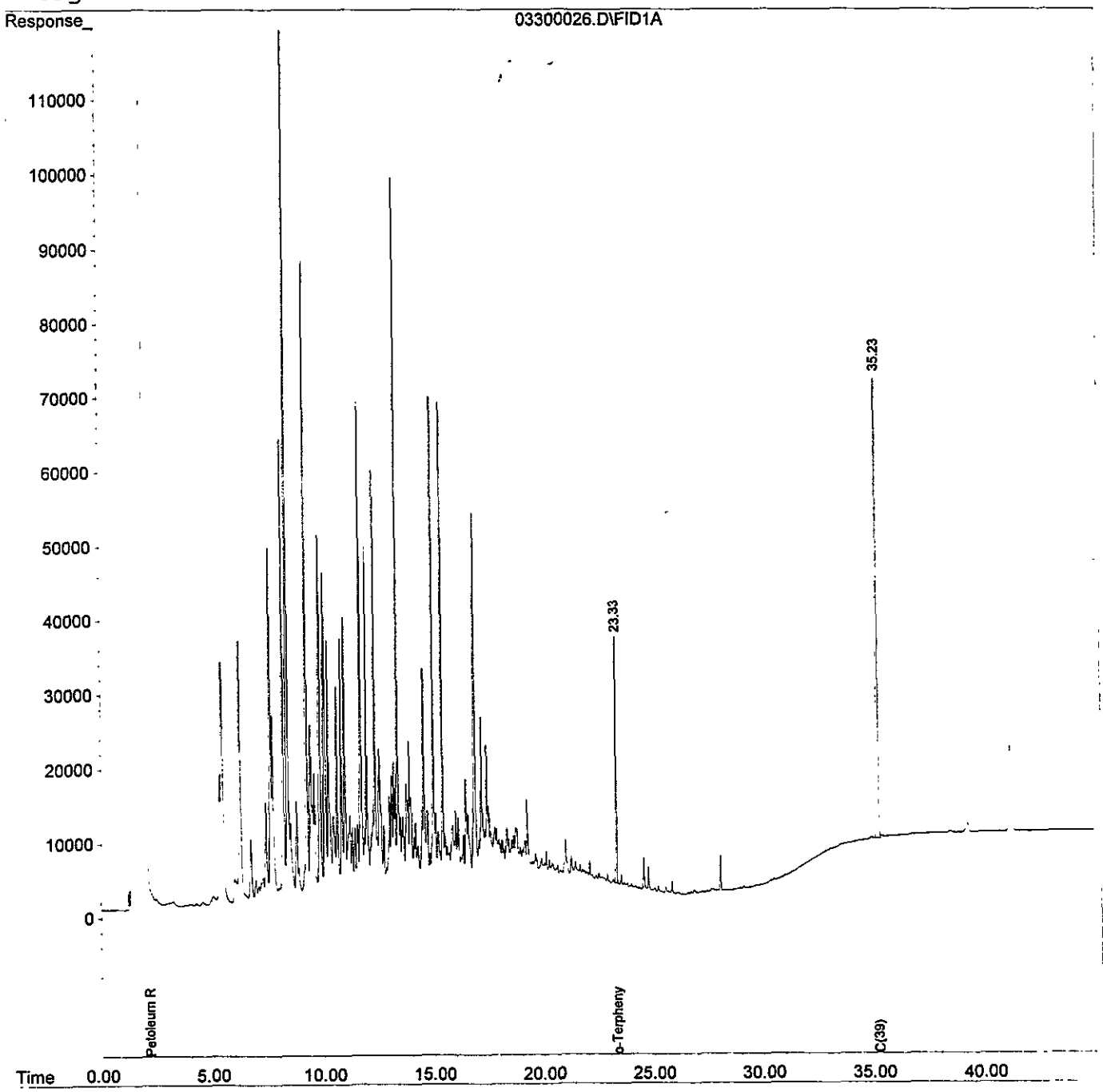
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\1\DATA\033000\03300026.D Vial: 17
Acq On : 31 Mar 2000 1:46 pm Operator: MT
Sample : AB89507 Inst : DUAL FID
Misc : 23975 1000ml Multiplr: 1.00
IntFile : PRO0914.e
Quant Time: Mar 31 16:30 2000 Quant Results File: PRO0112.RES

Quant Method : C:\HPCHEM\1\METHODS\PRO0112.M (Chemstation Integrator)
Title : FL PRO
Last Update : Thu Mar 09 14:46:05 2000
Response via : Multiple Level Calibration
DataAcq Meth : PRO0112.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\033000\03300027.D Vial: 18
Acq On : 31 Mar 2000 2:48 pm Operator: MT
Sample : AB89508 Inst : DUAL FID
Misc : 23975 1000ml Multiplr: 1.00
IntFile : PRO0914.e
Quant Time: Mar 31 16:30 2000 Quant Results File: PRO0112.RES

Quant Method : C:\HPCHEM\1\METHODS\PRO0112.M (Chemstation Integrator)
Title : FL PRO
Last Update : Thu Mar 09 14:46:05 2000
Response via : Initial Calibration
DataAcq Meth : PRO0112.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) SC o-Terphenyl	23.33	896496	21.483 ug/mlm
Spiked Amount 50.000	Recovery =		42.97% ✗ MT
3) SC C(39)	35.23	2951521	76.812 ug/mlm
Spiked Amount 150.000	Recovery =		51.21% ✓ MT
Target Compounds			
1) HM Petoleum Range Organics	2.15	60476636	703.522 ug/ml / 1000 ml = 0.703 ppm MT

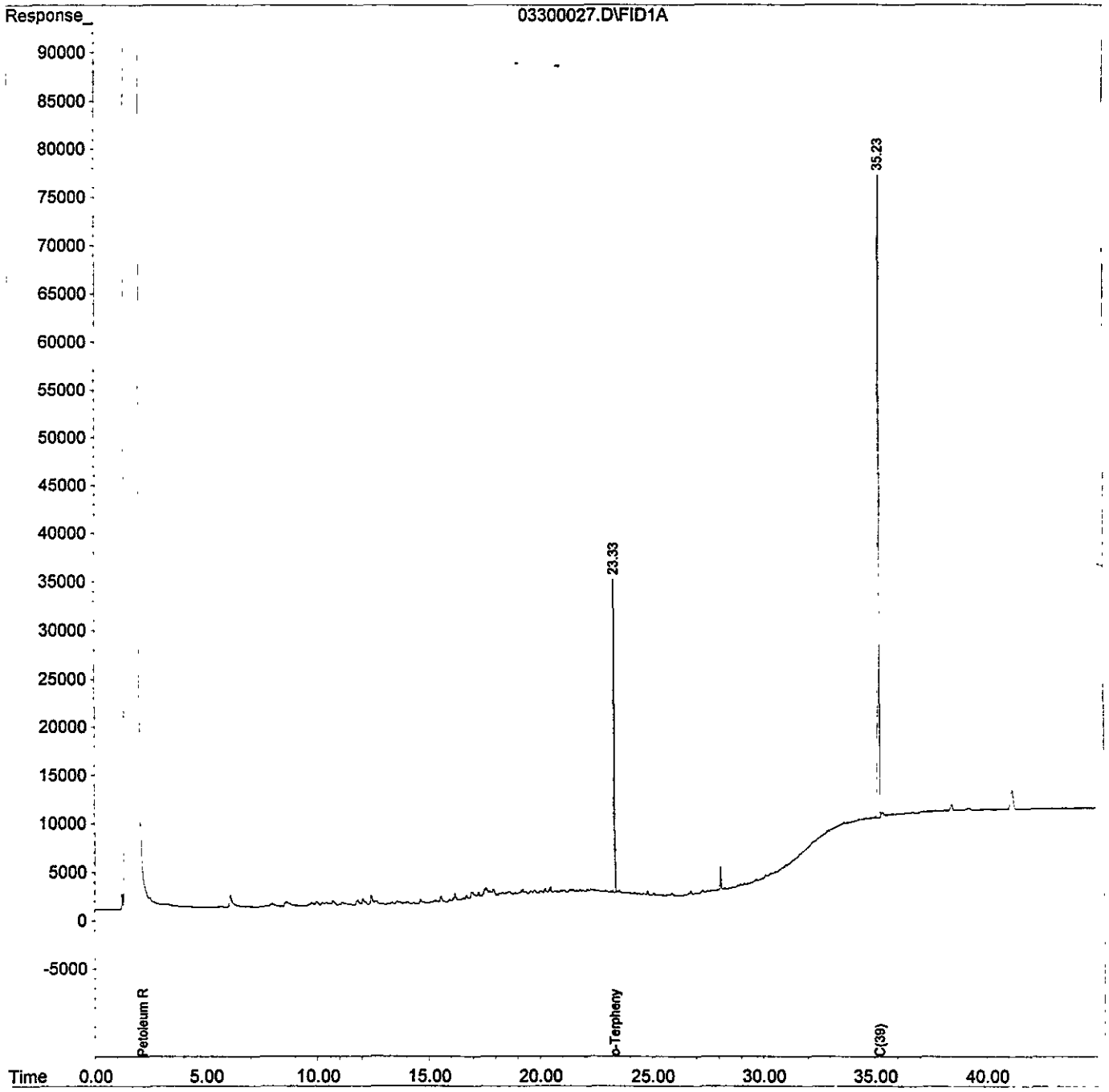
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\1\DATA\033000\03300027.D Vial: 18
Acq On : 31 Mar 2000 2:48 pm Operator: MT
Sample : AB89508 Inst : DUAL FID
Misc : 23975 1000ml Multiplr: 1.00
IntFile : PRO0914.e
Quant Time: Mar 31 16:30 2000 Quant Results File: PRO0112.RES

Quant Method : C:\HPCHEM\1\METHODS\PRO0112.M (Chemstation Integrator)
Title : FL PRO
Last Update : Thu Mar 09 14:46:05 2000
Response via : Multiple Level Calibration
DataAcq Meth : PRO0112.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\033000\03300028.D Vial: 19
Acq On : 31 Mar 2000 3:42 pm Operator: MT
Sample : AB89509 Inst : DUAL FID
Misc : 23975 1000ml Multiplr: 1.00
IntFile : PRO0914.e
Quant Time: Mar 31 16:31 2000 Quant Results File: PRO0112.RES

Quant Method : C:\HPCHEM\1\METHODS\PRO0112.M (Chemstation Integrator)
Title : FL PRO
Last Update : Thu Mar 09 14:46:05 2000
Response via : Initial Calibration
DataAcq Meth : PRO0112.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) SC o-Terphenyl	23.33	1148637	27.525 ug/mlm
Spiked Amount 50.000	Recovery =		55.05% x MT
3) SC C(39)	35.19f	1058973	27.559 ug/mlm
Spiked Amount 150.000	Recovery =		18.37% x MT
Target Compounds			
1) HM Petoleum Range Organics	2.15	52386251	484.902 ug/ml /1000ml =

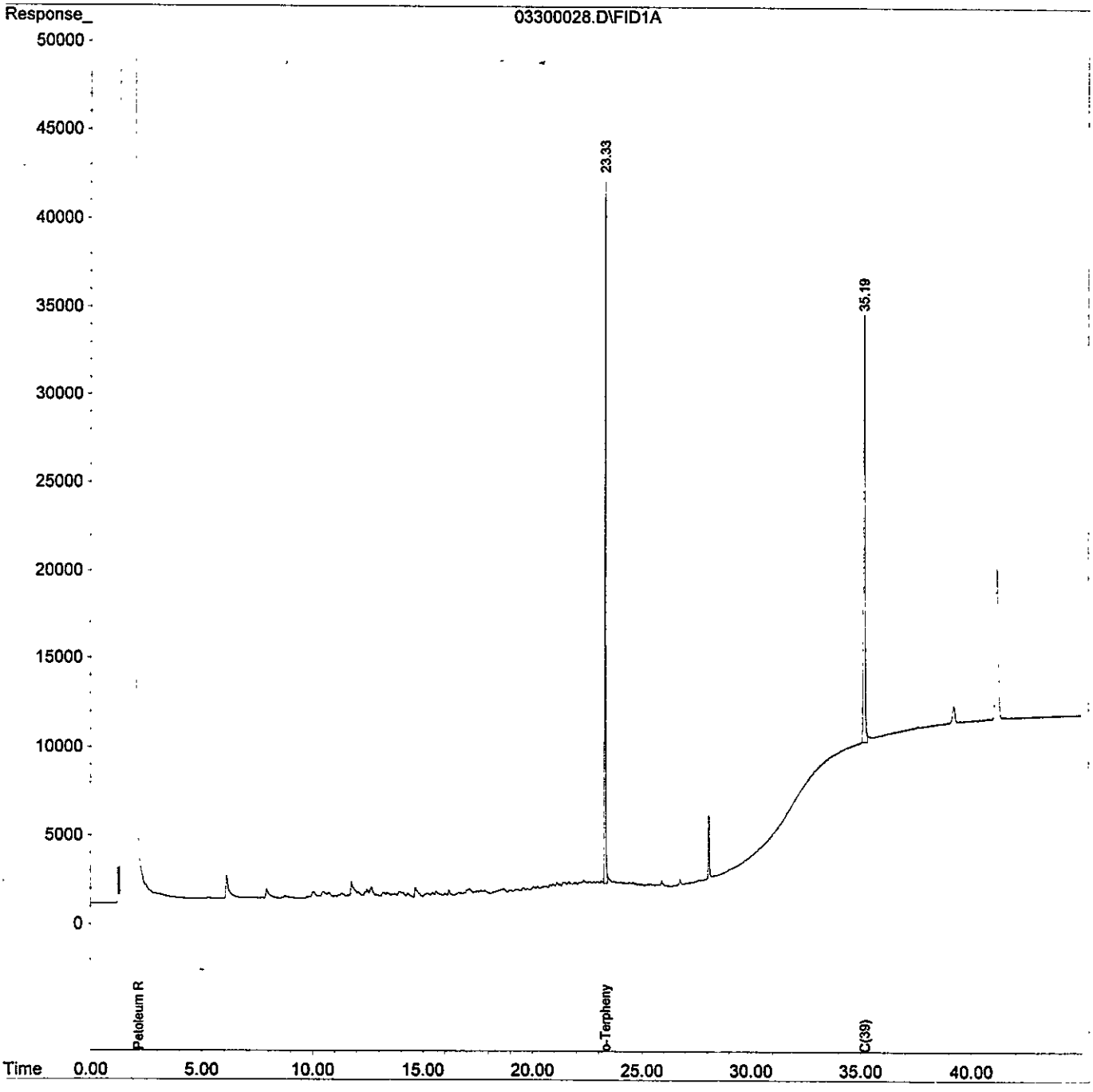
0.485 ppm
MT

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

Data File : C:\HPCHEM\1\DATA\033000\03300028.D Vial: 19
Acq On : 31 Mar 2000 3:42 pm Operator: MT
Sample : AB89509 Inst : DUAL FID
Misc : 23975 1000ml Multiplr: 1.00
IntFile : PRO0914.e
Quant Time: Mar 31 16:31 2000 Quant Results File: PRO0112.RES

Quant Method : C:\HPCHEM\1\METHODS\PRO0112.M (Chemstation Integrator)
Title : FL PRO
Last Update : Thu Mar 09 14:46:05 2000
Response via : Multiple Level Calibration
DataAcq Meth : PRO0112.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\033000\03300029.D Vial: 20
Acq On : 31 Mar 2000 4:36 pm Operator: MT
Sample : AB89510 5X Inst : DUAL FID
Misc : 23975 1000ml Multiplr: 1.00
IntFile : PRO0914.e
Quant Time: Mar 31 17:31 2000 Quant Results File: PRO0112.RES

Quant Method : C:\HPCHEM\1\METHODS\PRO0112.M (Chemstation Integrator)
Title : FL PRO
Last Update : Thu Mar 09 14:46:05 2000
Response via : Initial Calibration
DataAcq Meth : PRO0112.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) SC o-Terphenyl	23.33	160809	3.853 ug/mlm
Spiked Amount 50.000	Recovery =		7.71% x5 = 39 x MT
3) SC C(39)	35.19f	347433	9.042 ug/mlm
Spiked Amount 150.000	Recovery =		6.03% x5 = 30 x MT
Target Compounds			
1) HM Petoleum Range Organics	2.15	145538812	3002.092 ug/ml/1000 ml =

3.002 x 5 =

15 ppm
MT

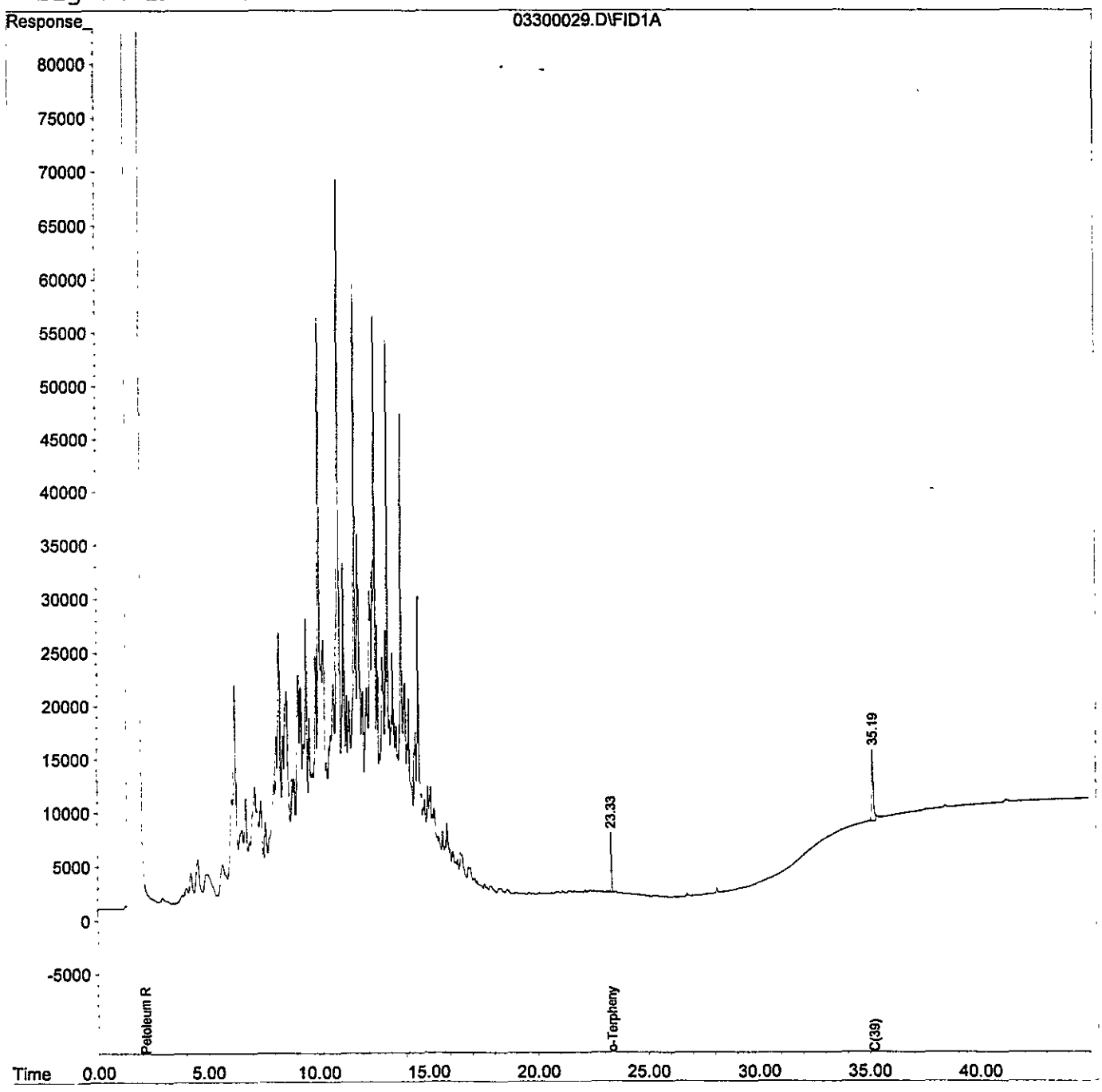
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\1\DATA\033000\03300029.D Vial: 20
Acq On : 31 Mar 2000 4:36 pm Operator: MT
Sample : AB89510 5X Inst : DUAL FID
Misc : 23975 1000ml Multiplr: 1.00
IntFile : PRO0914.e
Quant Time: Mar 31 17:31 2000 Quant Results File: PRO0112.RES

Quant Method : C:\HPCHEM\1\METHODS\PRO0112.M (Chemstation Integrator)
Title : FL PRO
Last Update : Thu Mar 09 14:46:05 2000
Response via : Multiple Level Calibration
DataAcq Meth : PRO0112.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\033000\03300030.D Vial: 21
Acq On : 31 Mar 2000 5:30 pm Operator: MT
Sample : AB89511 Inst : DUAL FID
Misc : 23975 1000ml Multiplr: 1.00
IntFile : PRO0914.e
Quant Time: Mar 31 18:21 2000 Quant Results File: PRO0112.RES

Quant Method : C:\HPCHEM\1\METHODS\PRO0112.M (Chemstation Integrator)
Title : FL PRO
Last Update : Thu Mar 09 14:46:05 2000
Response via : Initial Calibration
DataAcq Meth : PRO0112.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) SC o-Terphenyl	23.33	1051891	25.206 ug/mlm
Spiked Amount 50.000	Recovery =		50.41% x MT
3) SC C(39)	35.19f	899422	23.407 ug/mlm
Spiked Amount 150.000	Recovery =		15.60% x MT
Target Compounds			
1) HM Petoleum Range Organics	2.15	52633388	491.580 ug/ml / 1000ml =

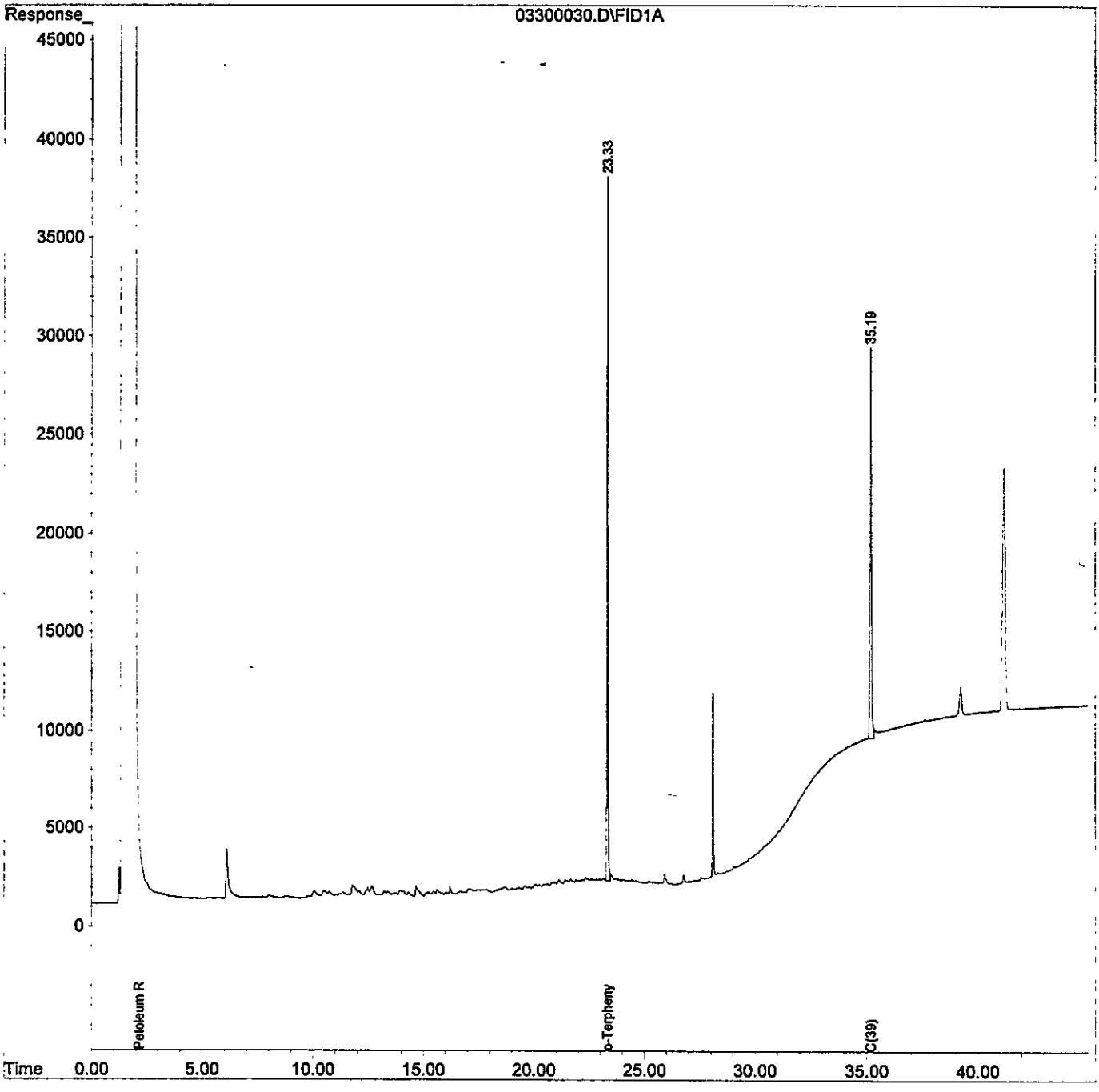
0.491 ppm
MT

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

Data File : C:\HPCHEM\1\DATA\033000\03300030.D Vial: 21
Acq On : 31 Mar 2000 5:30 pm Operator: MT
Sample : AB89511 Inst : DUAL FID
Misc : 23975 1000ml Multiplr: 1.00
IntFile : PRO0914.e
Quant Time: Mar 31 18:21 2000 Quant Results File: PRO0112.RES

Quant Method : C:\HPCHEM\1\METHODS\PRO0112.M (Chemstation Integrator)
Title : FL PRO
Last Update : Thu Mar 09 14:46:05 2000
Response via : Multiple Level Calibration
DataAcq Meth : PRO0112.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\033000\03300012.D Vial: 3
Acq On : 30 Mar 2000 11:03 pm Operator: MT
Sample : PROW BLANK 0326 Inst : DUAL FID
Misc : Multiplr: 1.00
IntFile : PRO0914.e
Quant Time: Mar 31 9:20 2000 Quant Results File: PRO0112.RES

Quant Method : C:\HPCHEM\1\METHODS\PRO0112.M (Chemstation Integrator)
Title : FL PRO
Last Update : Thu Mar 09 14:46:05 2000
Response via : Initial Calibration
DataAcq Meth : PRO0112.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) SC o-Terphenyl	23.35	1844322	44.195 ug/mlm
Spiked Amount 50.000	Recovery =		88.39% MT
3) SC C(39)	35.24	1309786	34.087 ug/mlm
Spiked Amount 150.000	Recovery =		22.72% x MT
Target Compounds			
1) HM Petoleum Range Organics	2.15	53654296	519.167 ug/ml /1000ml =

0.52 J ppm =

> 1/2 RDL

MT

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

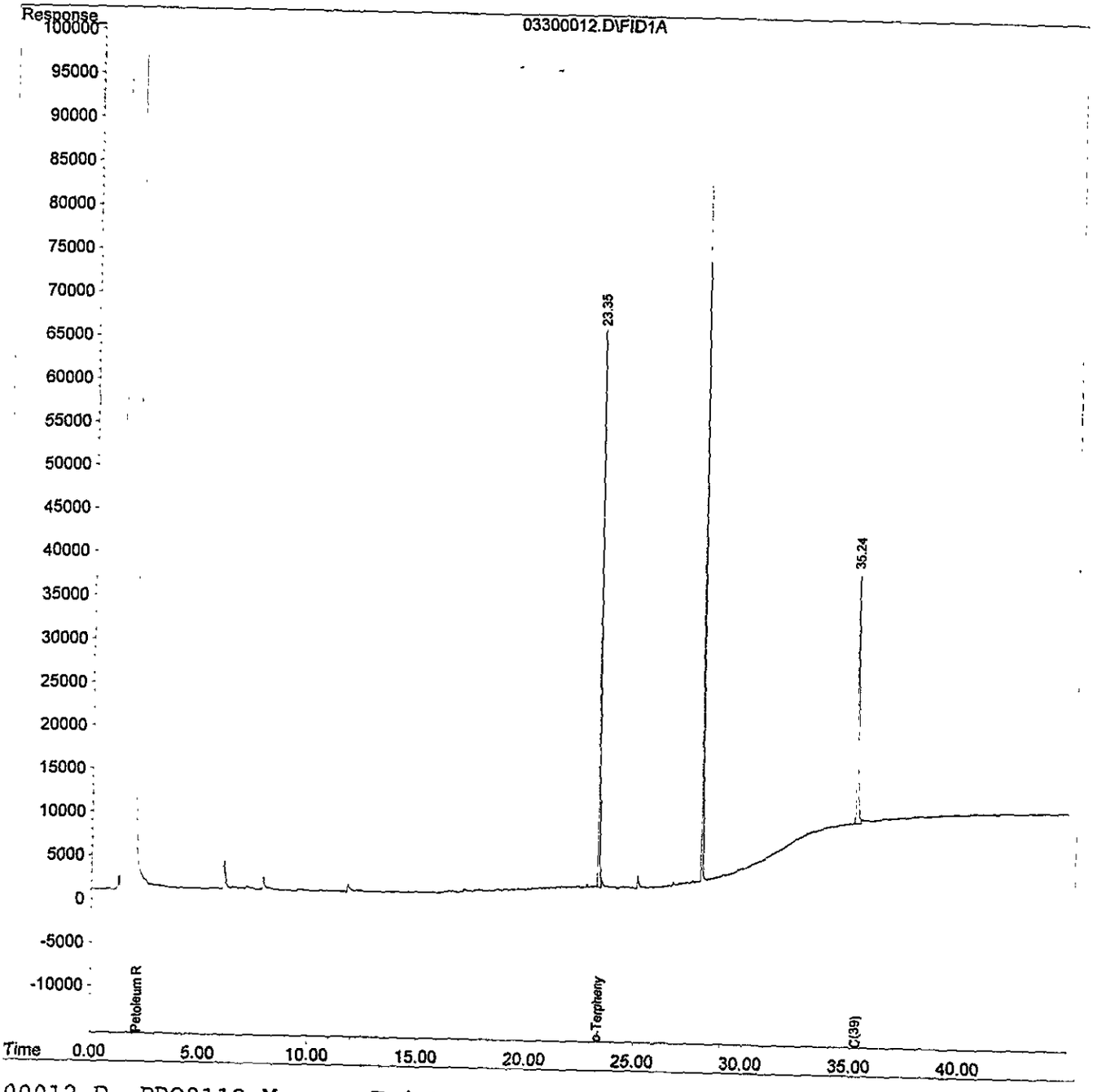
Quantitation Report

Data File : C:\HPCHEM\1\DATA\033000\03300012.D
Acq On : 30 Mar 2000 11:03 pm
Sample : PROW BLANK 0326
Misc :
IntFile : PRO0914.e
Quant Time: Mar 31 9:20 2000 Quant Results File: PRO0112.RES

Vial: 3
Operator: MT
Inst : DUAL FID
Multiplr: 1.00

Quant Method : C:\HPCHEM\1\METHODS\PRO0112.M (Chemstation Integrator)
Title : FL PRO
Last Update : Thu Mar 09 14:46:05 2000
Response via : Multiple Level Calibration
DataAcq Meth : PRO0112.M

Volume Inj. :
Signal Phase :
Signal Info :



Accura Analytical Laboratory, Inc.

LCS Report

Sample ID:	PROW LCS 0326	**Date Acquired:**	3/30/00
Operator:	MT	**Instrument ID:**	DUAL FID #1, FRONT C
Data File:	03300013	**AS POS.#**	4
Method:	FLPRO	**Matrix:**	WATER

Compound	Expected Rec. (ppm)	Actual Rec. (ppm)	Percent Recovery	Recovery Limits (%)	Pass/ Fail
PRO	4.25	3.013	71 %	55 - 118	Pass

Surrogates	Expected Rec. (ppm)	Actual Rec. (ppm)	Percent Recovery	Recovery Limits (%)	Pass/ Fail
ortho-terphenyl	50	42.54	85%	82 - 142	Pass
C(39)	150	13.12	9%	42 - 193	Fail

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\033000\03300013.D Vial: 4
Acq On : 30 Mar 2000 11:56 pm Operator: MT
Sample : PROW LCS 0326 Inst : DUAL FID
Misc : Multiplr: 1.00
IntFile : PRO0914.e
Quant Time: Mar 31 9:20 2000 Quant Results File: PRO0112.RES

Quant Method : C:\HPCHEM\1\METHODS\PRO0112.M (Chemstation Integrator)
Title : FL PRO
Last Update : Thu Mar 09 14:46:05 2000
Response via : Initial Calibration
DataAcq Meth : PRO0112.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) SC o-Terphenyl	23.35	1775430	42.544 ug/mlm
Spiked Amount 50.000	Recovery =		85.09% ✓MT
3) SC C(39)	35.23	503983	13.116 ug/mlm
Spiked Amount 150.000	Recovery =		8.74% x MT
Target Compounds			
1) HM Petoleum Range Organics	2.15	145924757	3012.521 ug/ml /1000ml =

3.013 /4.25 x 100% =

71% ✓
MT

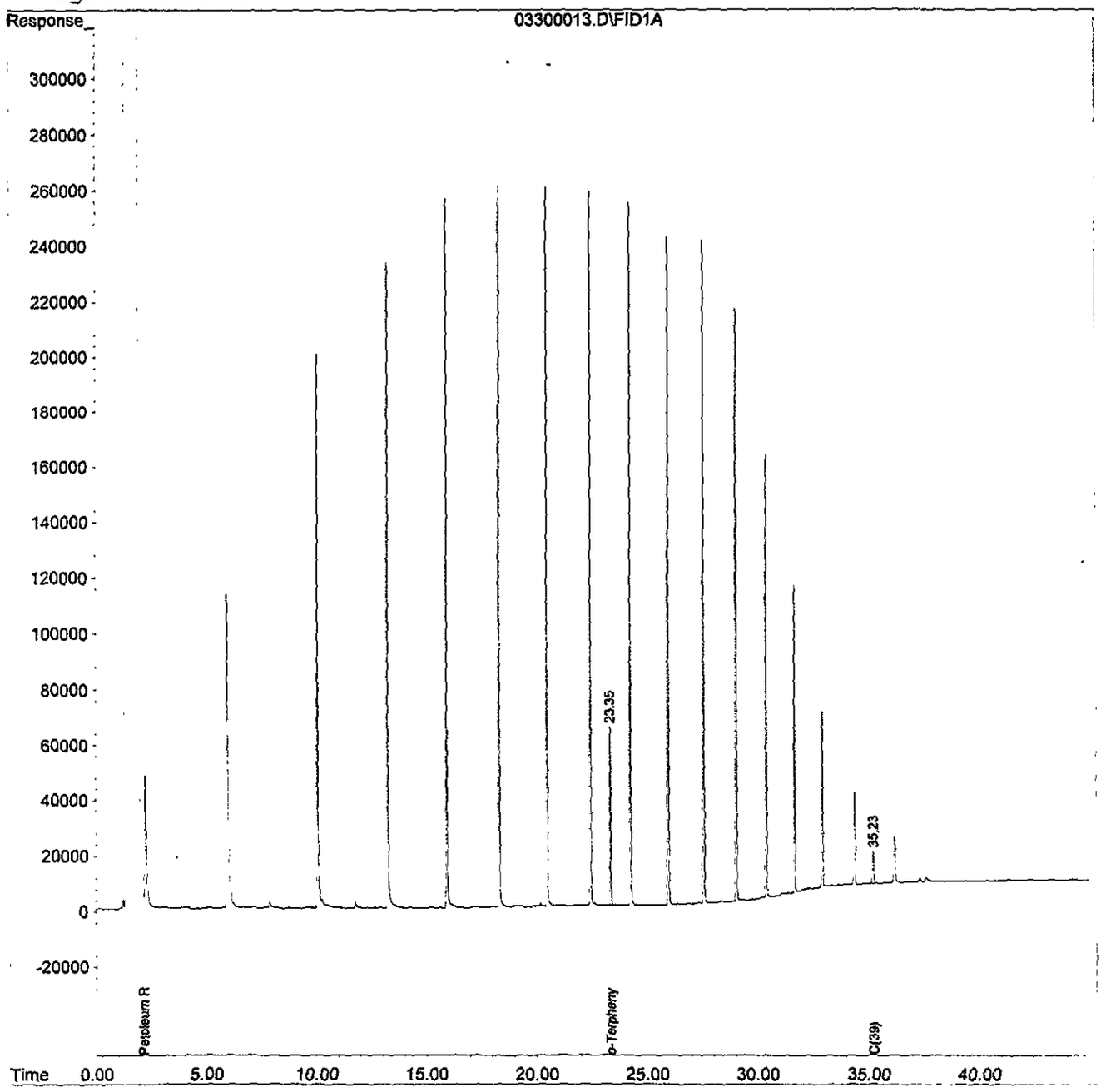
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\1\DATA\033000\03300013.D Vial: 4
Acq On : 30 Mar 2000 11:56 pm Operator: MT
Sample : PROW LCS 0326 Inst : DUAL FID
Misc : Multiplr: 1.00
IntFile : PRO0914.e
Quant Time: Mar 31 9:20 2000 Quant Results File: PRO0112.RES

Quant Method : C:\HPCHEM\1\METHODS\PRO0112.M (Chemstation Integrator)
Title : FL PRO
Last Update : Thu Mar 09 14:46:05 2000
Response via : Multiple Level Calibration
DataAcq Meth : PRO0112.M

Volume Inj. :
Signal Phase :
Signal Info :



ACCURA ANALYTICAL LABORATORY, INC.

Environmental Analytical Services

Standard Name: FLPRO Cal Std.
Lab Standard ID# ~~995~~ 005V001 - 005V005
MT 1-10-00
Prepared By: MT

Date Made: 1-10-00
Expire Date: 1-10-00
Matrix: $MeCl_2$

Standard	Lot\Lab ID#	Conc.	Amount Used	Final Conc.	
Florida TRPH Std.	EX - ~~9206~~ 111 MT 1-10-00	500 ppm	100µl	850 PHs	(50 ppm)
↓	↓	↓	300µl	2550	(150 ↓)
			500µl	4250	(250)
			700µl	5950	(350)
↓	↓	↓	1000µl	8500 ↓	(500 ↓)
OTP	EX 99102-10	10,000 ppm	5µl add to 1mL Std	50ppm	
C(39)	98A362	3000 ppm	50µl ↓	150ppm	
$MeCl_2$	EX 99136	—		—	
All Stds. brought to final vol of 1mL in $MeCl_2$. MT 1-10-00					

Standard Name: FLPRO ICVS
Lab Standard ID# 005V006
Prepared By: MT

Date Made: 1-18-00
Expire Date: 1-18-00
Matrix: $MeCl_2$

Standard	Lot\Lab ID#	Conc.	Amount Used.	Final Conc.	
Florida TPRH Std.	500A029	500 ppm	500µl	4250 PHs	(250 ppm)
$MeCl_2$	EX00005	—	~~9500µl~~ MT 1-18-00 ~~500~~ 1445µl	—	
OTP	EX 99102-10	10,000 ppm	MT 1-18-00 5µl	50ppm	
C39	98A362	3000 ppm	50µl	150 ppm	
	MT 1-18-00				

STPRLGFR.XLS

ACCURA ANALYTICAL LABORATORY, INC.

Environmental Analytical Services

Standard Name: FL PRO CCV
Lab Standard ID#: COSV049

Date Made: 3-28-00
Expire Date: 4-04-00
Matrix: MeCl2

Prepared By: MT

Standard	Lot\Lab ID#	Conc.	Amount Used.	Final Conc.
Florida TRPH Std.	S00A032-2	500 ppm	500µl	4250 ppm
OTP	EX9902-10	10,000 ↓	5 ↓	50 ↓
C(39)	98A362	300 ↓	50 ↓	150 ↓
MeCl2	EX000	—	445 ↓	—
	MT 3-28-00			

Standard Name: Ethylene glycol mono ethyl ether Int.
Lab Standard ID#: COSV050

Date Made: 3-29-00
Expire Date: ~~MT 3-29-00~~ 4-05-00
Matrix: H2O

Prepared By: MT

Standard	Lot\Lab ID#	Conc.	Amount Used.	Final Conc.
2-Ethoxyethanol	98-A258	Neat	10µl	1000 ppm
H2O	—	—	9990 ↓	—
	MT 3-29-00			

STPRLGFR.XLS

SVO GC CALIBRATION CHECKLIST
FL-PRO

DATE / INSTRUMENT: 1-19-00 / Inst #1	METHOD: FL-PRO
MATRIX: Water/Soil	

Are all standards within expiration dates for both stock and serial standards?	(Y)	N	NA
Is the Initial Calibration compliant with the method specifications?	(Y)	N	NA
Were daily retention time windows updated?	(Y)	N	NA
Is the runlog completely filled out (including review signature/date)?	(Y)	N	NA
Are all mistakes single lined, initialled, and dated?	(Y)	N	NA

Analyst: MT	Reviewer:
Date: 1-19-00 Time: 15:00	Date: 01/21/00 Time: 3:20 PM

Sequence Date: 1-11-00
Analyst Initials: MT
Run Method: ELPRO
Quant Method: PRO0112

Initial Calibration Compound: PRO
Date: 01-12-00

Vial Position	AAL Sample I.D. #	Extraction Date	Matrix	Dilution Factor	OTP/C(39) Recovery	PRO ~~DRO~~ Spike Recovery	AAL Std. I.D. #	Comments
1	Solvent Blank	NA	$MeCl_2$	1X	NA	NA		
2	850 PHS PRO Std	↓	Std	↓	↓	↓	005V001	
3	2550	↓	↓	↓	↓	↓	005V002	
4	4250	↓	↓	↓	↓	↓	005V003	
5	5950	↓	↓	↓	↓	↓	005V004	
6	8500	↓	↓	↓	↓	↓	005V005	
7	Solvent Blank	↓	$MeCl_2$	↓	↓	↓		
8	PROW Blank 1221	12-21-99	W	↓	80/25	↓		
9	PROW LCS 1221	↓	↓	↓	81/13	MT ~~140~~ 9356		
10	PROW LCSD 1221	↓	↓	↓	82/9	MT ~~88~~ 53		
11	83218	↓	↓	↓	14/31	NA		
7	Solvent Blank	NA	$MeCl_2$	↓	NA	↓		
4	4250 PHS PRO CCV	↓	Std	↓	104/107	98	005V003	
				MT	1-12-00			

Initials / Date: MT 1-12-00

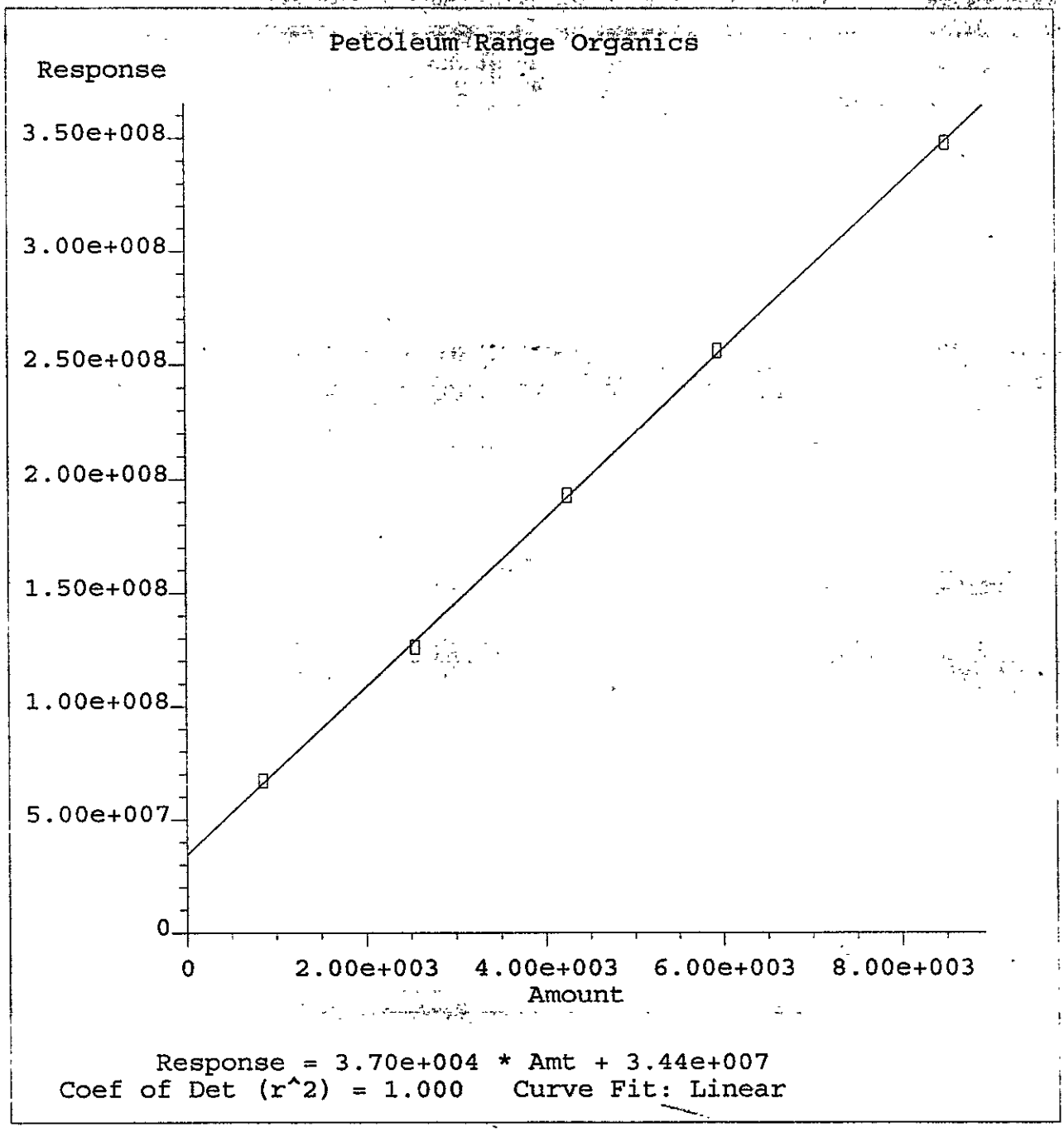
Sequence Date: 1-18-00
Analyst Initials: MT
Run Method: FLPRO
Quant Method: PRO0112

Initial Calibration Compound: PRO
Date: 1-12-00

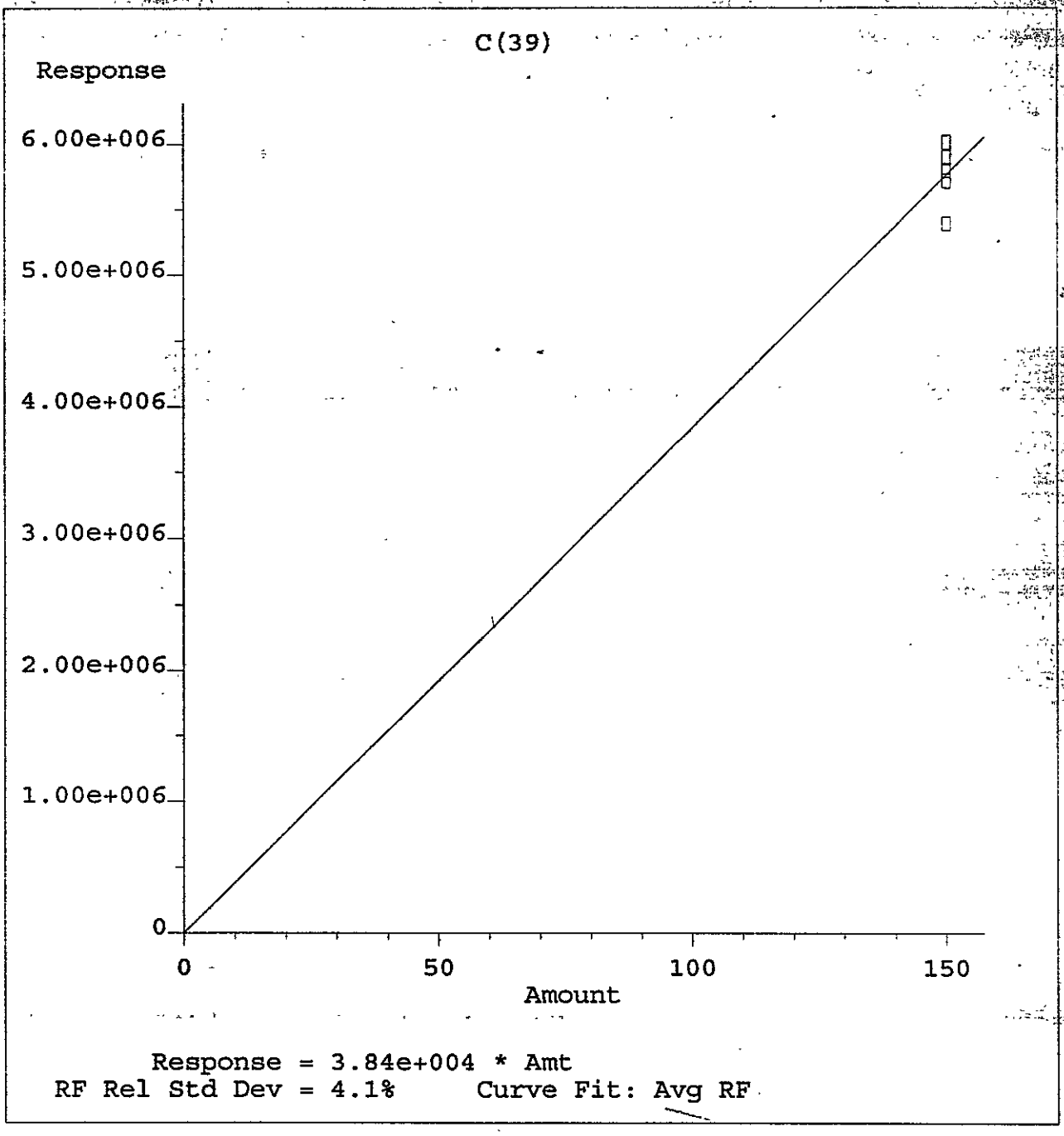
Vial Position	AAL Sample I.D. #	Extraction Date	Matrix	Dilution Factor	OTP/C(39) Recovery	PRO ~~DRO~~ Spike Recovery	AAL Std. I.D. #	Comments
1	Solvent Blank	NA	$MeCl_2$	1X	NA	NA		
2	4250 PHS PRO CCV	↓	Std.	↓	102/104	110	005V006	
3	PRO 5 Blank 0113	1-13-00	S	↓	98/34 x	NA		$< \frac{1}{2}$ RDL
4	PRO5 LCS 0113	↓	↓	↓	104/20 x	82 ✓		
5	84319 MS 10X	↓	↓	10X	108/23 x	25 x		
6	84319 MSD 10X	↓	↓	↓	108/57 x	15 x		
7	84319 10X	↓	↓	↓	118/65 ✓	NA		
8	84320	↓	↓	1X	88/35 x	↓		
9	84321	↓	↓	↓	93/29 x	↓		
10	Solvent Blank	NA	$MeCl_2$	↓	NA	↓		
11	4250 PHS PRO CCV	↓	Std.	↓	106/102	112	005V006	

MT 1-19-00

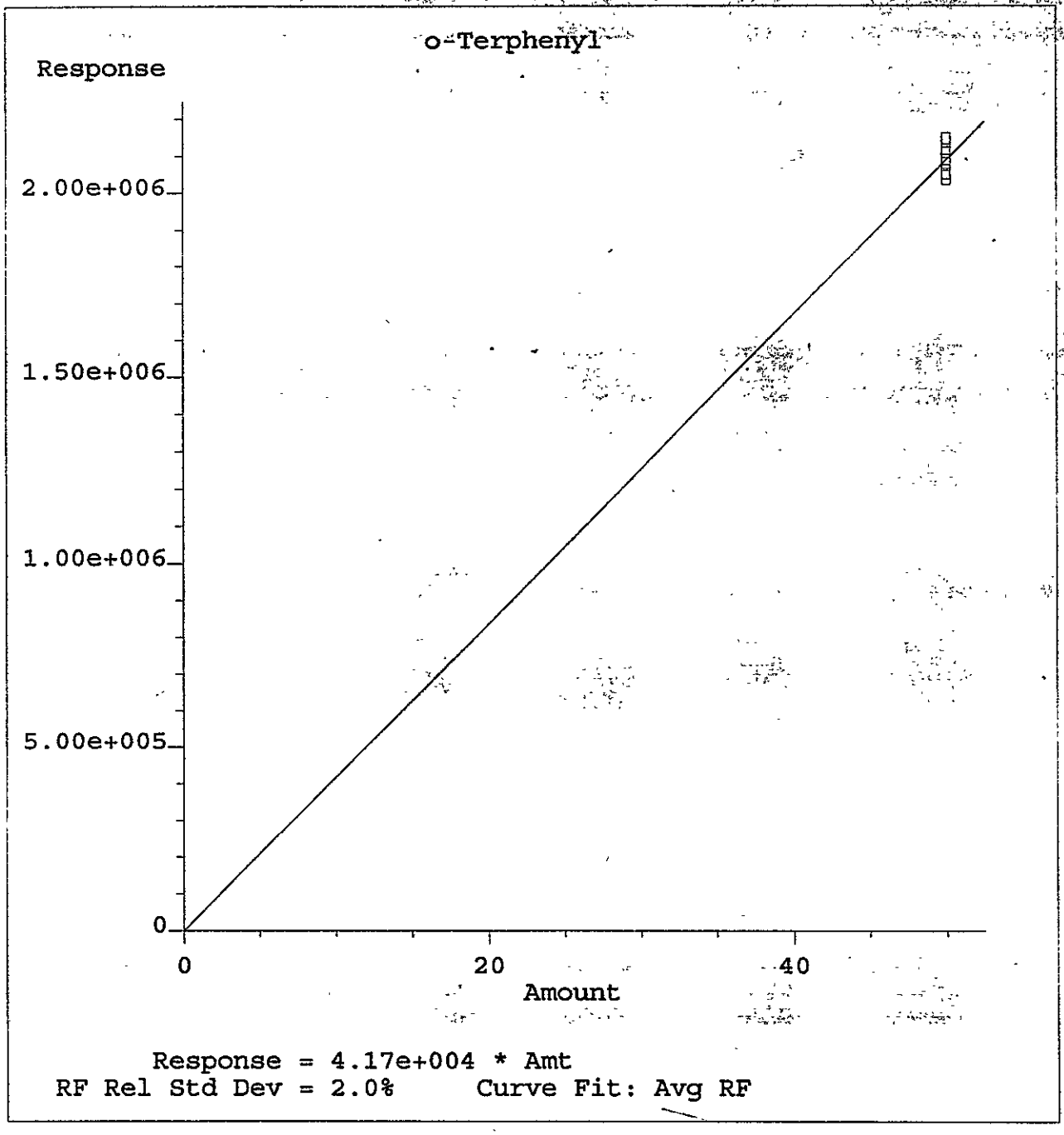
Initials / Date: MT 1-19-00



Method Name: C:\HPCHEM\1\METHODS\PRO0112A.M
Calibration Table Last Updated: Wed Jan 12 11:34:45 2000



Method Name: C:\HPCHEM\1\METHODS\PRO0112.M
Calibration Table Last Updated: Tue Feb 15 18:30:58 2000



Method Name: C:\HPCHEM\1\METHODS\PRO0112.M
Calibration Table Last Updated: Tue Feb 15 18:30:58 2000

Response Factor Report DUAL FID

Method : C:\HPCHEM\1\METHODS\PRO0112.M (Chemstation Integrator)
Title : FL PRO
Last Update : Tue Feb 15 18:30:58 2000

Calibration Files
1 =01110002.D 2 =01110003.D 3 =01110004.D
4 =01110005.D 5 =01110006.D

		Compound	1	2	3	4	5	Avg		%RSD
1)	HM	Petoleum Range Organi	7.877	4.945	4.535	4.304	4.096	5.151	E4	30.20
2)	S	o-Terphenyl	4.224	4.110	4.284	4.166	4.080	4.173	E4	1.99
3)	S	C(39)	3.812	3.865	4.008	3.932	3.595	3.843	E4	4.08

(#) = Out of Range

DATA ANALYSIS PARAMETERS

Method Name: C:\HPCHEM\1\METHODS\PRO0112.M

Percent Report Settings

Sort By: Signal

Output Destination
    Screen: No
    Printer: Yes
    File: No

Integration Events: AutoIntegrate

Generate Report During Run Method: No

Signal Correlation Window: 0.020

Quantitative Report Settings

Report Type: Summary

Output Destination
    Screen: No
    Printer: Yes
    File: No

Generate Report During Run Method: Yes

FL PRO
Calibration Last Updated: Wed Jan 19 16:55:15 2000

Reference Window: 2.00 Minutes
Non-Reference Window: 1.00 Minutes
Correlation Window: 0.10 minutes
Default Multiplier: 1.00
Default Sample Concentration: 0.00

Compound Information

---

1) Petoleum Range Organics ( )
Ret. Time 2.24 min., Extract & Integrate from 2.24 to 38.98 min.

Lvl ID Conc (ug/ml) Response

1	850.000	66955603
2	2550.000	126103266
3	4250.000	192733054
4	5950.000	256078876
5	8500.000	348182889

Curve Fit: Linear

---

2) o-Terphenyl ( )

Ret. Time 23.51 min., Extract & Integrate from 23.39 to 23.63 min.

Lvl	ID	Conc (ug/ml)	Response
1		50.000	2112126
2		50.000	2055198
3		50.000	2142241
4		50.000	2083238
5		50.000	2039982

Curve Fit: Avg. RF

---

3) C(39) ( )

Ret. Time 35.42 min., Extract & Integrate from 35.24 to 35.60 min.

Lvl	ID	Conc (ug/ml)	Response
1		150.000	5718717
2		150.000	5797301
3		150.000	6012531
4		150.000	5897793
5		150.000	5392550

Curve Fit: Avg. RF

END OF DATA ANALYSIS PARAMETERS

Mon Feb 14 17:55:42 2000

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\011100\01110002.D Vial: 2
Acq On : 11 Jan 2000 8:32 pm Operator: MT
Sample : 850 PHS PRO STD Inst : DUAL FID
Misc : Multipir: 1.00
IntFile : PRO0914.e
Quant Time: Jan 12 11:26 2000 Quant Results File: PRO0112.RES

Quant Method : C:\HPCHEM\1\METHODS\PRO0112.M (Chemstation Integrator)
Title : FL PRO
Last Update : Wed Jan 12 11:25:38 2000
Response via : Initial Calibration
DataAcq Meth : FLPRO.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc	Units
System Monitoring Compounds				
2) S o-Terphenyl	23.51	2112126	NoCal	ug/mlm
Spiked Amount 50.000	Recovery = 0.00%			
3) S C(39)	35.42	5718717	NoCal	ug/mlm
Spiked Amount 150.000	Recovery = 0.00%			
Target Compounds				
1) HM Petoleum Range Organics	2.24	66955603	N.D.	ug/ml

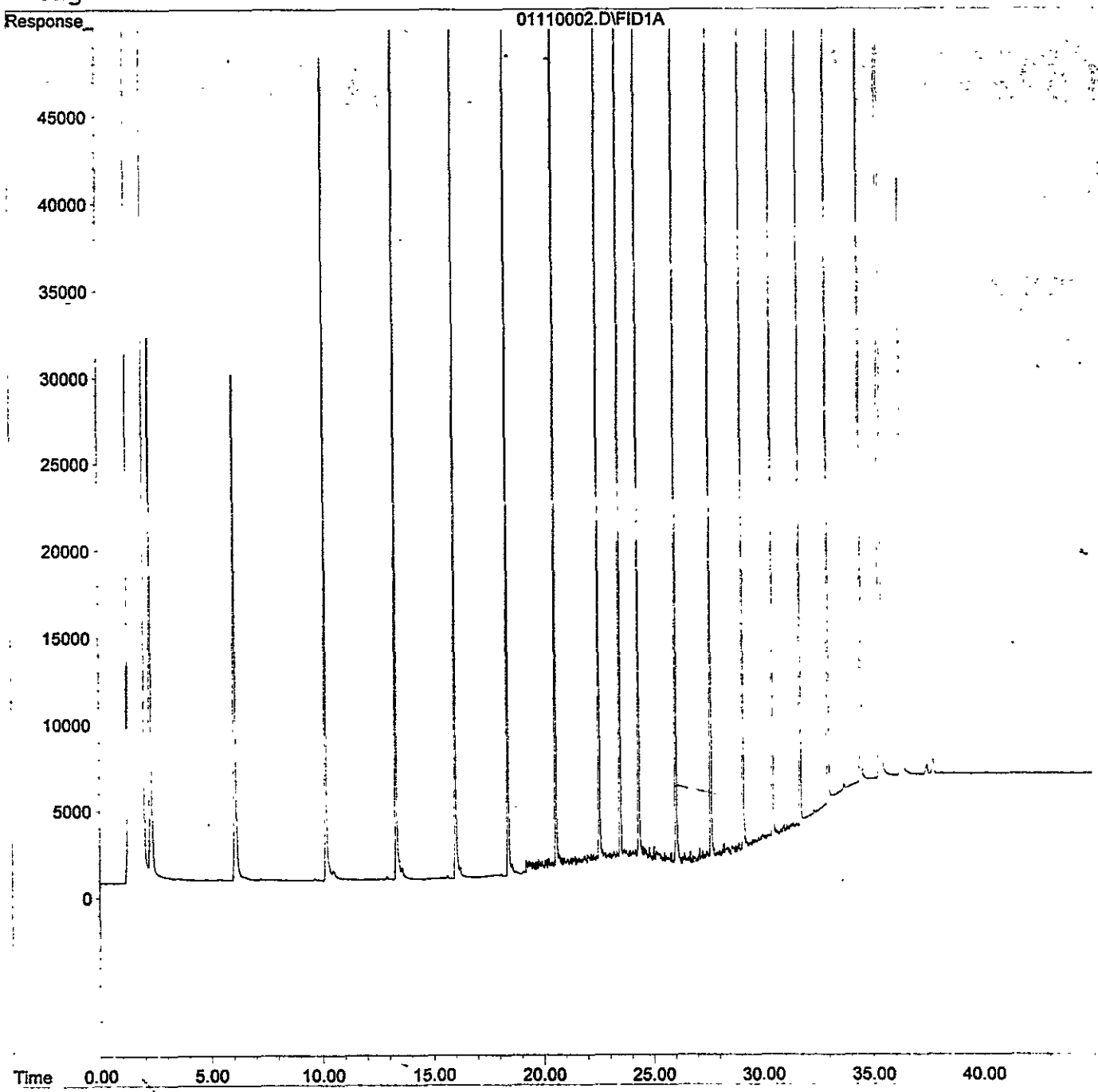
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\1\DATA\011100\01110002.D Vial: 2
Acq On : 11 Jan 2000 8:32 pm Operator: MT
Sample : 850 PHS PRO STD Inst : DUAL FID
Misc : Multiplr: 1.00
IntFile : PRO0914.e
Quant Time: Jan 12 11:26 2000 Quant Results File: PRO0112.RES

Quant Method : C:\HPCHEM\1\METHODS\PRO0112.M (Chemstation Integrator)
Title : FL PRO
Last Update : Wed Jan 12 11:25:38 2000
Response via : Multiple Level Calibration
DataAcq Meth : FLPRO.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\011100\01110003.D Vial: 3
Acq On : 11 Jan 2000 9:26 pm Operator: MT
Sample : 2550 PHS PRO STD Inst : DUAL FID
Misc : Multiplr: 1.00
IntFile : PRO0914.e
Quant Time: Jan 12 11:27 2000 Quant Results File: PRO0112.RES

Quant Method : C:\HPCHEM\1\METHODS\PRO0112.M (Chemstation Integrator)
Title : FL PRO
Last Update : Wed Jan 12 11:25:38 2000
Response via : Initial Calibration
DataAcq Meth : FLPRO.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc	Units
System Monitoring Compounds				
2) S o-Terphenyl	23.51	2055198	48.652	ug/mlm
Spiked Amount 50.000	Recovery = 97.30%			
3) S C(39)	35.42	5797301	152.061	ug/mlm
Spiked Amount 150.000	Recovery = 101.37%			
Target Compounds				
1) HM Petoleum Range Organics	2.24	126103266	N.D.	ug/ml

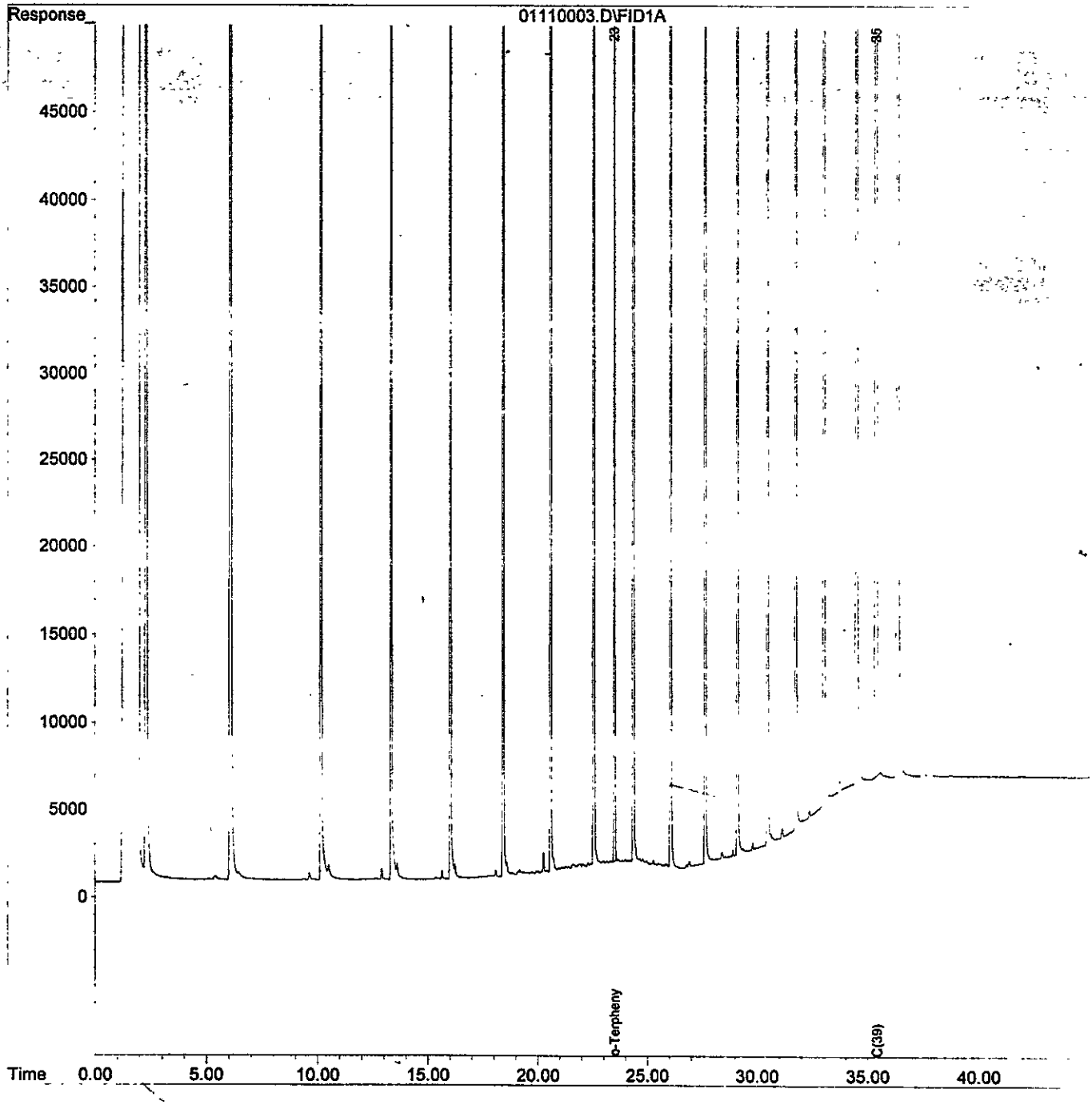
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\1\DATA\011100\01110003.D Vial: 3
Acq On : 11 Jan 2000 9:26 pm Operator: MT
Sample : 2550 PHS PRO STD Inst : DUAL FID
Misc : Multiplr: 1.00
IntFile : PRO0914.e
Quant Time: Jan 12 11:27 2000 Quant Results File: PRO0112.RES

Quant Method : C:\HPCHEM\1\METHODS\PRO0112.M (Chemstation Integrator)
Title : FL PRO
Last Update : Wed Jan 12 11:25:38 2000
Response via : Multiple Level Calibration
DataAcq Meth : FLPRO.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\011100\01110004.D Vial: 4
Acq On : 11 Jan 2000 10:20 pm Operator: MT
Sample : 4250 PHS PRO STD Inst : DUAL FID
Misc : Multiplr: 1.00
IntFile : PRO0914.e
Quant Time: Jan 12 11:28 2000 Quant Results File: PRO0112.RES

Quant Method : C:\HPCHEM\1\METHODS\PRO0112.M (Chemstation Integrator)
Title : FL PRO
Last Update : Wed Jan 12 11:25:38 2000
Response via : Initial Calibration
DataAcq Meth : FLPRO.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc	Units
System Monitoring Compounds				
2) S o-Terphenyl	23.51	2142241	NoCal	ug/mlm
Spiked Amount 50.000	Recovery = 0.00%			
3) S C(39)	35.42	6012531	NoCal	ug/mlm
Spiked Amount 150.000	Recovery = 0.00%			
Target Compounds				
1) HM Petoleum Range Organics	2.24	192733054	N.D.	ug/ml

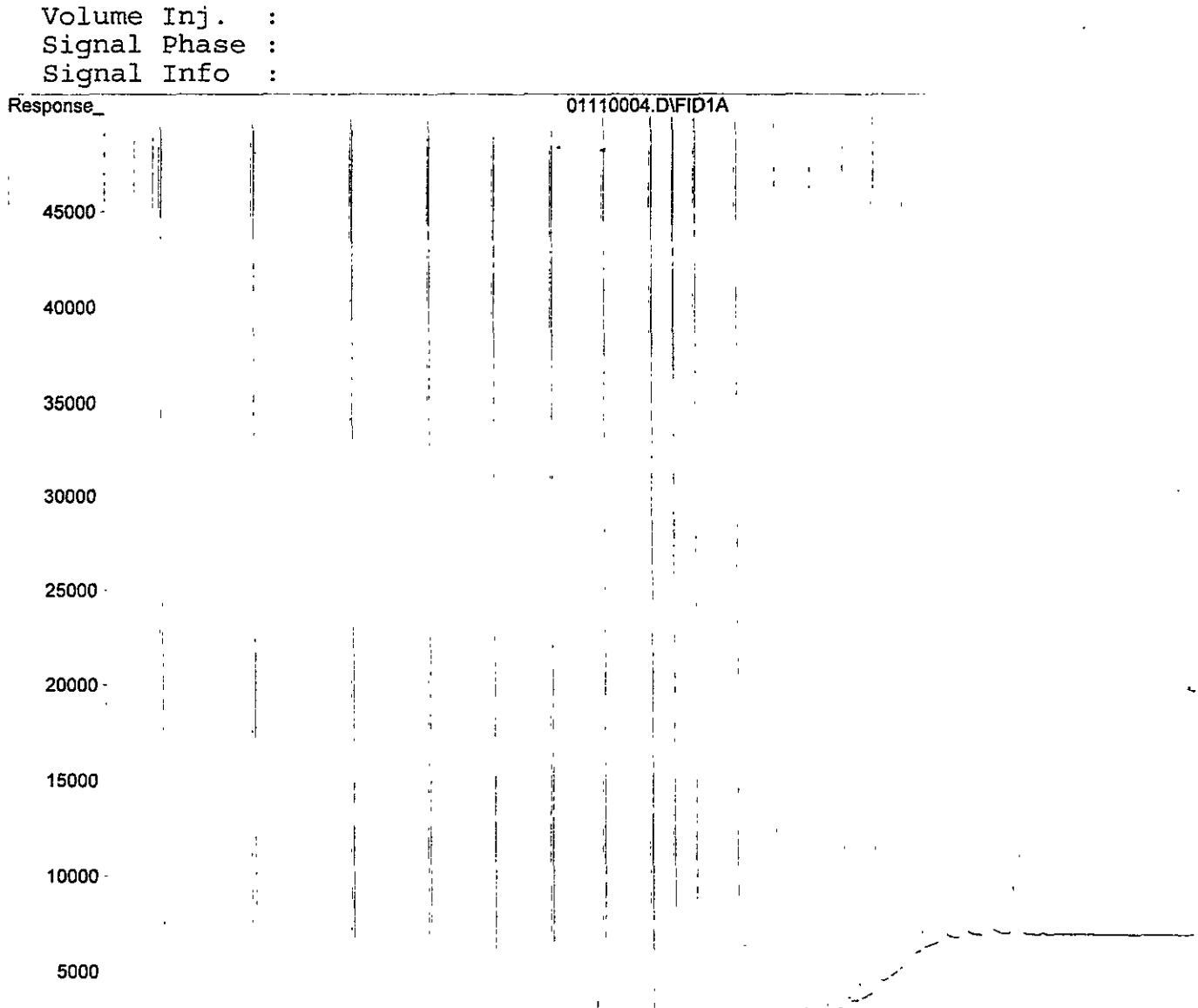
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\1\DATA\011100\01110004.D Vial: 4
Acq On : 11 Jan 2000 10:20 pm Operator: MT
Sample : 4250 PHS PRO STD Inst : DUAL FID
Misc : Multiplr: 1.00
IntFile : PRO0914.e
Quant Time: Jan 12 11:28 2000 Quant Results File: PRO0112.RES

Quant Method : C:\HPCHEM\1\METHODS\PRO0112.M (Chemstation Integrator)
Title : FL PRO
Last Update : Wed Jan 12 11:25:38 2000
Response via : Multiple Level Calibration
DataAcq Meth : FLPRO.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\011100\01110005.D Vial: 5
Acq On : 11 Jan 2000 11:14 pm Operator: MT
Sample : 5950 PHS PRO STD Inst : DUAL FID
Misc : Multiplr: 1.00
IntFile : PRO0914.e
Quant Time: Jan 12 11:29 2000 Quant Results File: PRO0112.RES

Quant Method : C:\HPCHEM\1\METHODS\PRO0112.M (Chemstation Integrator)
Title : FL PRO
Last Update : Wed Jan 12 11:25:38 2000
Response via : Initial Calibration
DataAcq Meth : FLPRO.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc	Units
System Monitoring Compounds				
2) S o-Terphenyl	23.51	2083238	NoCal	ug/mlm
Spiked Amount 50.000	Recovery = 0.00%			
3) S C(39)	35.42	5897793	NoCal	ug/mlm
Spiked Amount 150.000	Recovery = 0.00%			
Target Compounds				
1) HM Petoleum Range Organics	2.24	256078876	N.D.	ug/ml

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

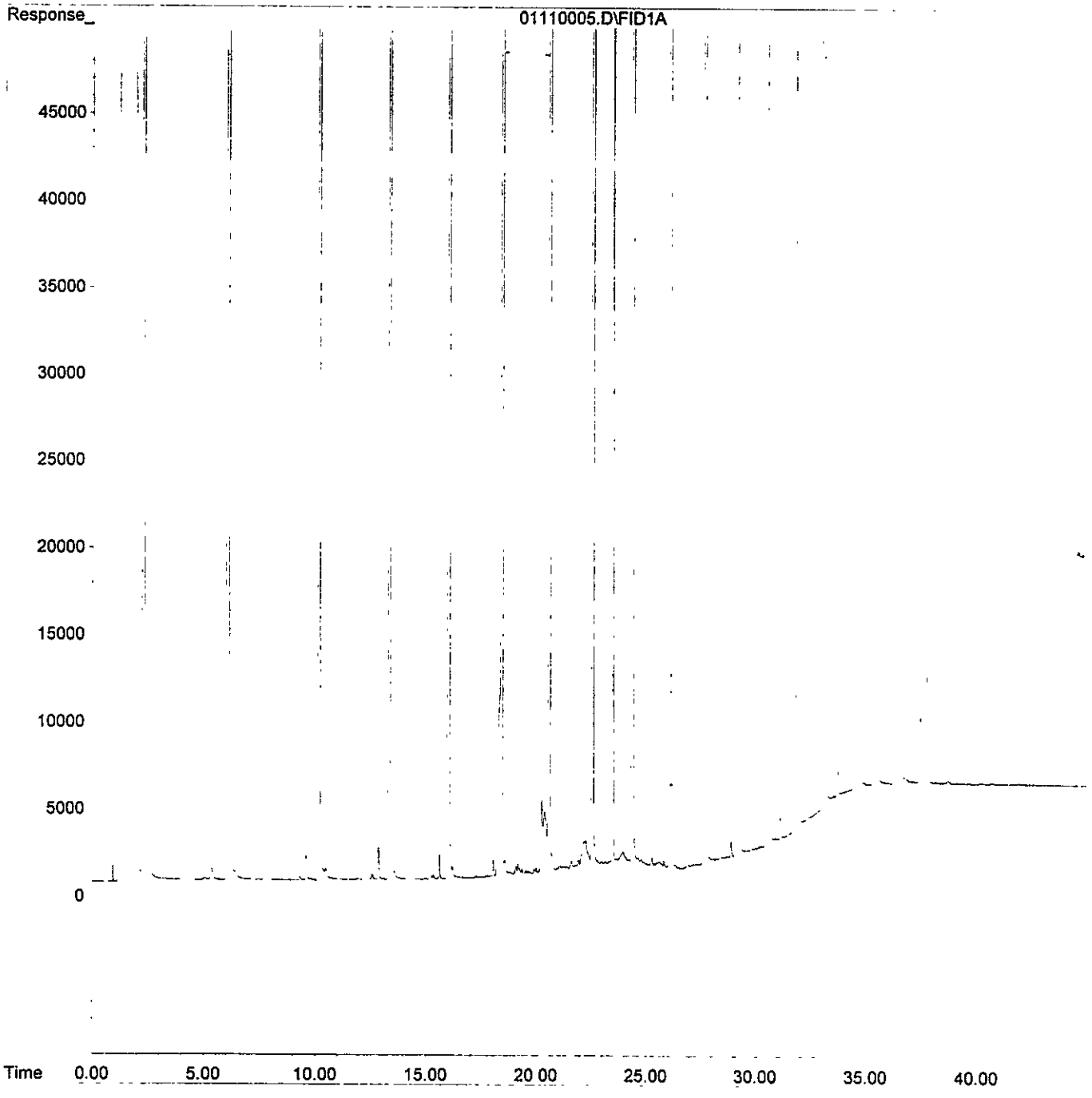
Quantitation Report

Data File : C:\HPCHEM\1\DATA\011100\01110005.D
Acq On : 11 Jan 2000 11:14 pm
Sample : 5950 PHS PRO STD
Misc :
IntFile : PRO0914.e
Quant Time: Jan 12 11:29 2000 Quant Results File: PRO0112.RES

Vial: 5
Operator: MT
Inst : DUAL FID
Multiplr: 1.00

Quant Method : C:\HPCHEM\1\METHODS\PRO0112.M (Chemstation Integrator)
Title : FL PRO
Last Update : Wed Jan 12 11:25:38 2000
Response via : Multiple Level Calibration
DataAcq Meth : FLPRO.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\011100\01110006.D Vial: 6
Acq On : 12 Jan 2000 12:07 am Operator: MT
Sample : 8500 PHS PRO STD Inst : DUAL FID
Misc : Multiplr: 1.00
IntFile : PRO0914.e
Quant Time: Jan 12 11:30 2000 Quant Results File: PRO0112.RES

Quant Method : C:\HPCHEM\1\METHODS\PRO0112.M (Chemstation Integrator)
Title : FL PRO
Last Update : Wed Jan 12 11:25:38 2000
Response via : Initial Calibration
DataAcq Meth : FLPRO.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc	Units
System Monitoring Compounds				
2) S o-Terphenyl	23.51	2039982	NoCal	ug/mlm
Spiked Amount 50.000	Recovery = 0.00%			
3) S C(39)	35.42	5392550	NoCal	ug/mlm
Spiked Amount 150.000	Recovery = 0.00%			
Target Compounds				
1) HM Petoleum Range Organics	2.24	348182889	N.D.	ug/ml

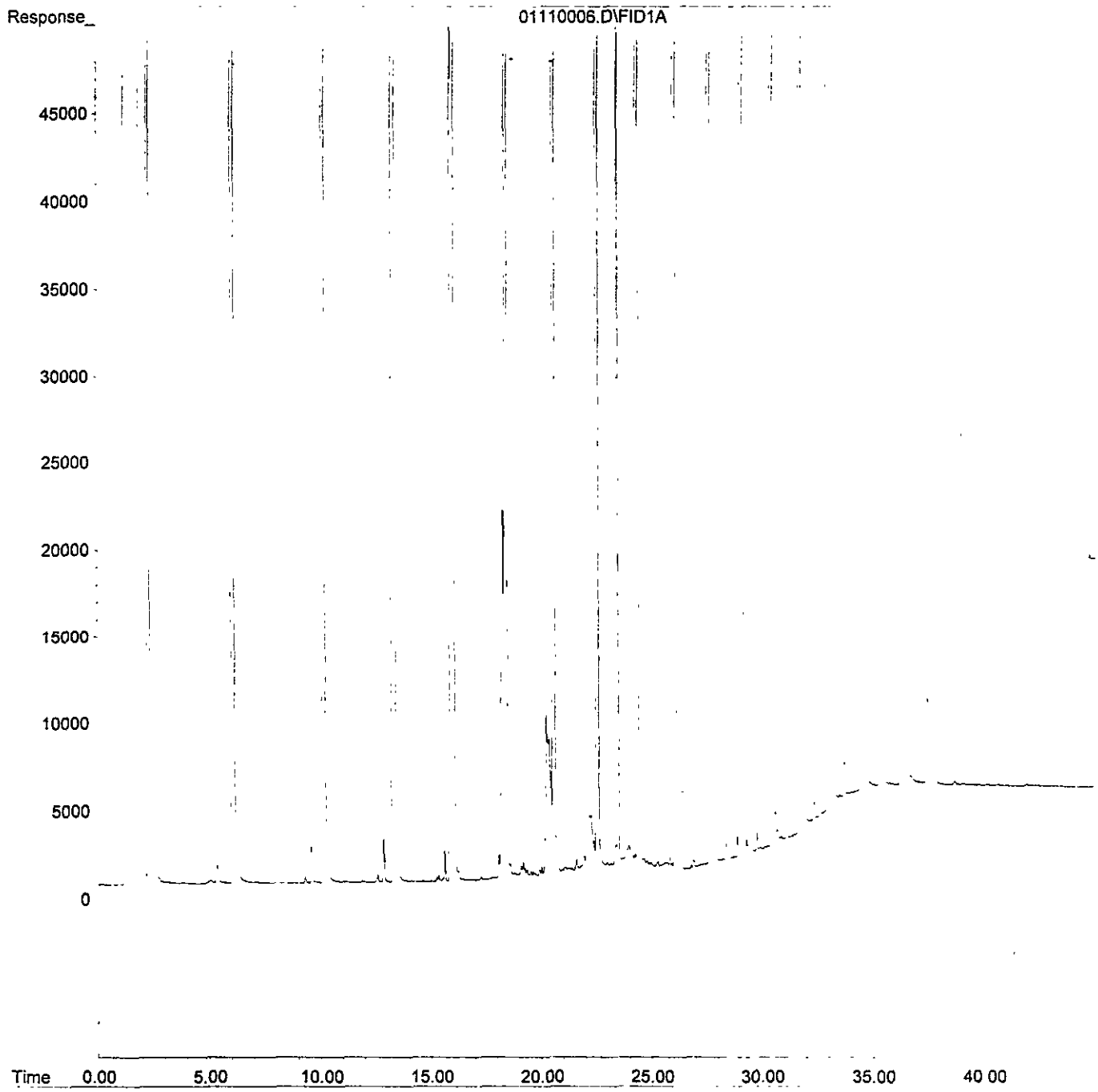
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\1\DATA\011100\01110006.D Vial: 6
Acq On : 12 Jan 2000 12:07 am Operator: MT
Sample : 8500 PHS PRO STD Inst : DUAL FID
Misc : Multiplr: 1.00
IntFile : PRO0914.e
Quant Time: Jan 12 11:30 2000 Quant Results File: PRO0112.RES

Quant Method : C:\HPCHEM\1\METHODS\PRO0112.M (Chemstation Integrator)
Title : FL PRO
Last Update : Wed Jan 12 11:25:38 2000
Response via : Multiple Level Calibration
DataAcq Meth : FLPRO.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\011800\01180002.D Vial: 2
Acq On : 18 Jan 2000 10:28 pm Operator: MT
Sample : 4250 PHS PRO ICVS Inst : DUAL FID
Misc : Multiplr: 1.00
IntFile : PRO0914.e
Quant Time: Jan 19 16:59 2000 Quant Results File: PRO0112A.RES

Quant Method : C:\HPCHEM\1\METHODS\PRO0112A.M (Chemstation Integrator)
Title : FL PRO
Last Update : Wed Jan 19 16:55:15 2000
Response via : Initial Calibration
DataAcq Meth : FLPRO.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) S o-Terphenyl	23.51	2139266	51.263 ug/mlm
Spiked Amount 50.000	Recovery =		102.53% MT
3) S C(39)	35.46	5994978	156.017 ug/mlm
Spiked Amount 150.000	Recovery =		104.01% MT
Target Compounds			
1) HM Petoleum Range Organics	2.24	207204097	4668.425 ug/ml

116% ✓
MT

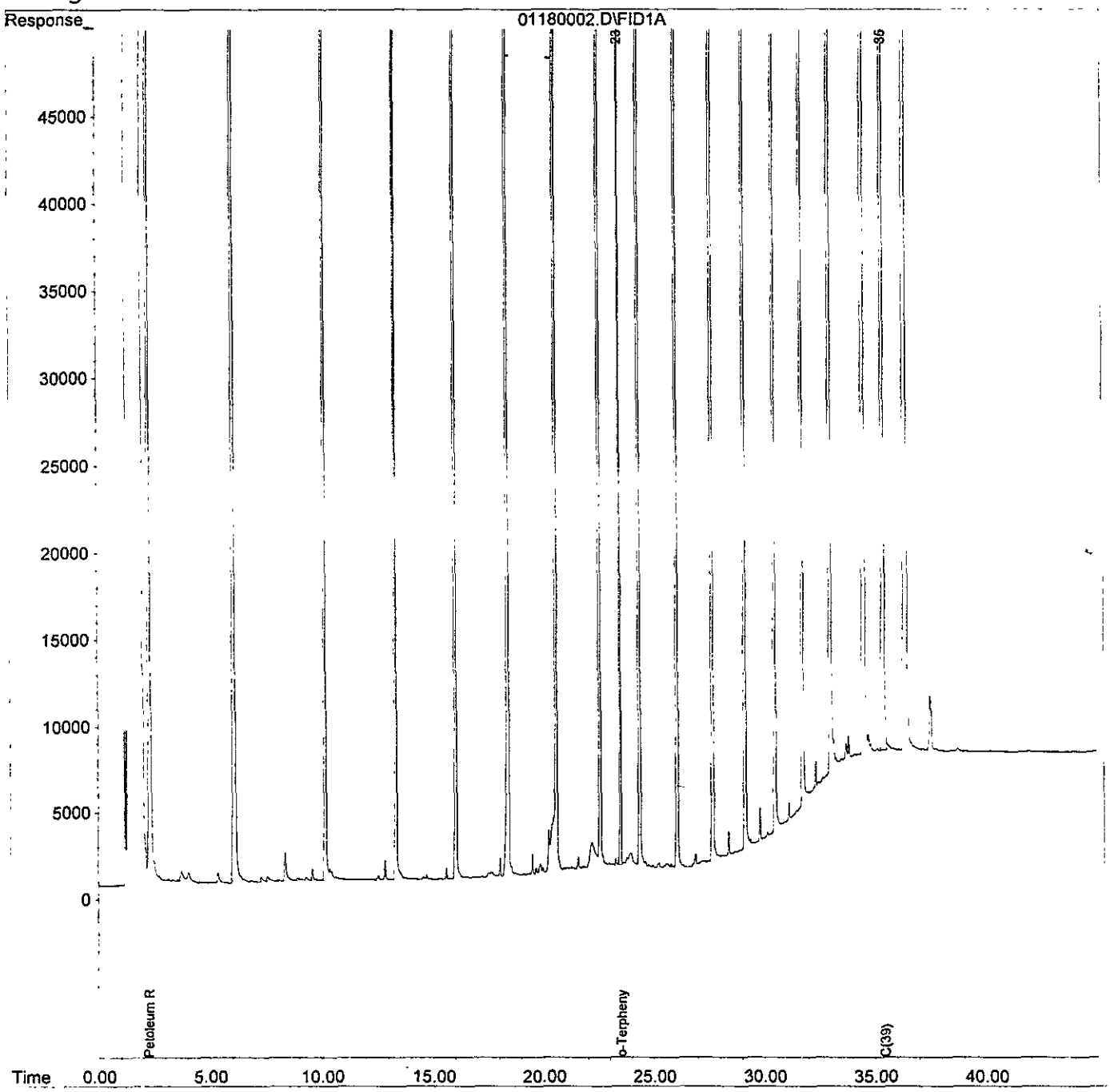
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\1\DATA\011800\01180002.D Vial: 2
Acq On : 18 Jan 2000 10:28 pm Operator: MT
Sample : 4250 PHS PRO ICVS Inst : DUAL FID
Misc : Multiplr: 1.00
IntFile : PRO0914.e
Quant Time: Jan 19 16:59 2000 Quant Results File: PRO0112A.RES

Quant Method : C:\HPCHEM\1\METHODS\PRO0112A.M (Chemstation Integrator)
Title : FL PRO
Last Update : Wed Jan 19 16:55:15 2000
Response via : Multiple Level Calibration
DataAcq Meth : FLPRO.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\012100\01210003.D Vial: 3
Acq On : 21 Jan 2000 2:23 pm Operator: MT
Sample : 4250 PHS PRO CCV Inst : DUAL FID
Misc : Multiplr: 1.00
IntFile : PRO0914.e
Quant Time: Jan 21 15:12 2000 Quant Results File: PRO0112.RES

Quant Method : C:\HPCHEM\1\METHODS\PRO0112.M (Chemstation Integrator)
Title : FL PRO
Last Update : Wed Jan 19 16:55:15 2000
Response via : Initial Calibration
DataAcq Meth : PRO0112.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) S o-Terphenyl	23.48	1843407	44.173 ug/mlm
Spiked Amount 50.000		Recovery =	88.35% ✓MT
3) S C(39)	35.40	5288241	137.624 ug/mlm
Spiked Amount 150.000		Recovery =	91.75% ✓MT
Target Compounds			
1) HM Petoleum Range Organics	2.24	175863829	3821.541 ug/ml

90% ✓
MT

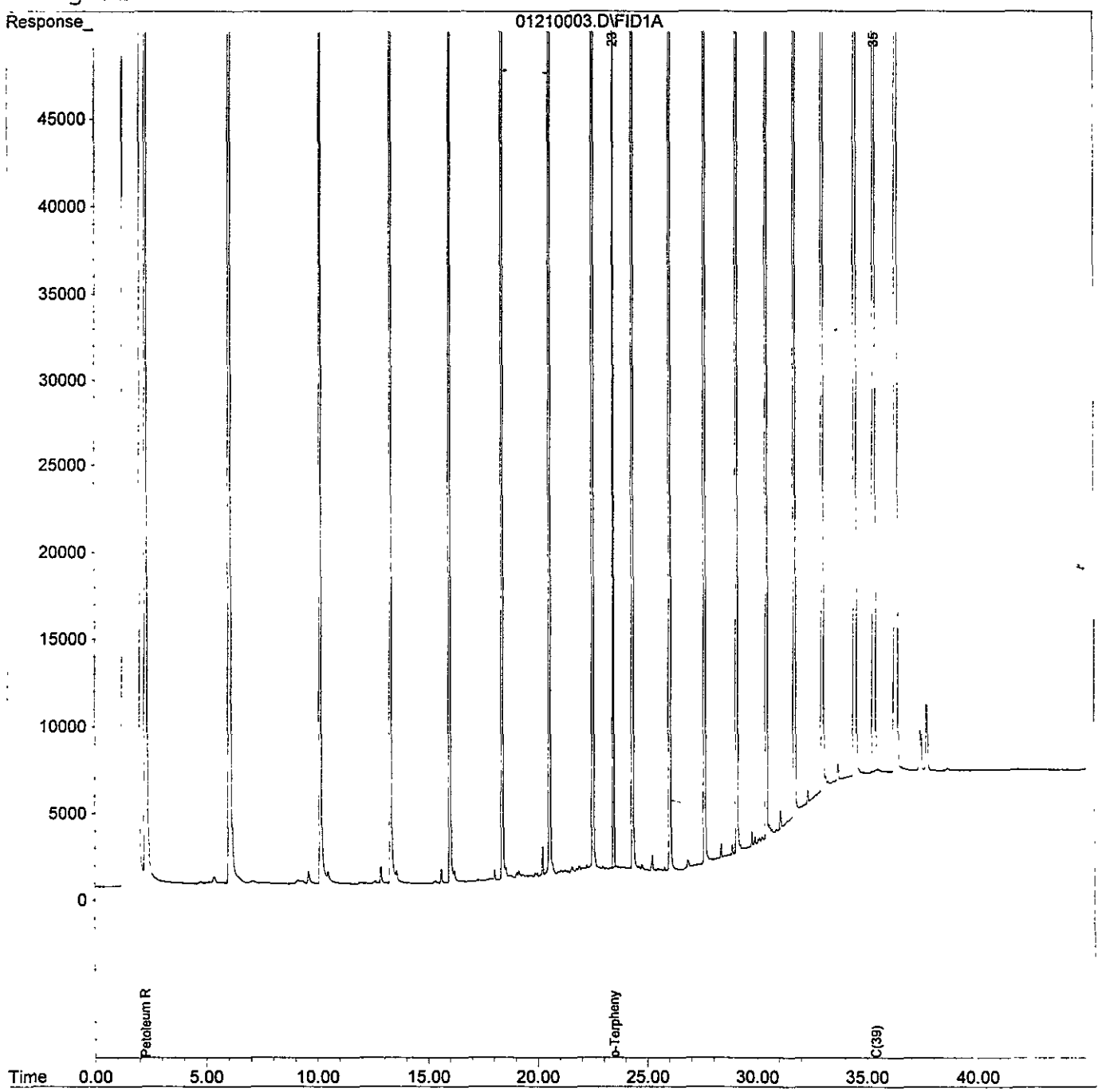
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\1\DATA\012100\01210003.D Vial: 3
Acq On : 21 Jan 2000 2:23 pm Operator: MT
Sample : 4250 PHS PRO CCV Inst : DUAL FID
Misc : Multiplr: 1.00
IntFile : PRO0914.e
Quant Time: Jan 21 15:12 2000 Quant Results File: PRO0112.RES

Quant Method : C:\HPCHEM\1\METHODS\PRO0112.M (Chemstation Integrator)
Title : FL PRO
Last Update : Wed Jan 19 16:55:15 2000
Response via : Multiple Level Calibration
DataAcq Meth : PRO0112.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\012100\01210002.D Vial: 2
Acq On : 21 Jan 2000 11:12 am Operator: MT
Sample : 4250 PHS PRO ICVS Inst : DUAL FID
Misc : Multiplr: 1.00
IntFile : PRO0914.e
Quant Time: Jan 21 13:16 2000 Quant Results File: PRO0112.RES

Quant Method : C:\HPCHEM\1\METHODS\PRO0112.M (Chemstation Integrator)
Title : FL PRO
Last Update : Wed Jan 19 16:55:15 2000
Response via : Initial Calibration
DataAcq Meth : PRO0112.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) S o-Terphenyl	23.48	2192534	52.540 ug/mlm
Spiked Amount 50.000		Recovery =	105.08% ✓MT
3) S C(39)	35.41	5852896	152.319 ug/mlm
Spiked Amount 150.000		Recovery =	101.55% ✓MT
Target Compounds			
1) HM Petoleum Range Organics	2.24	203131792	4558.382 ug/ml

107% /
MT

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

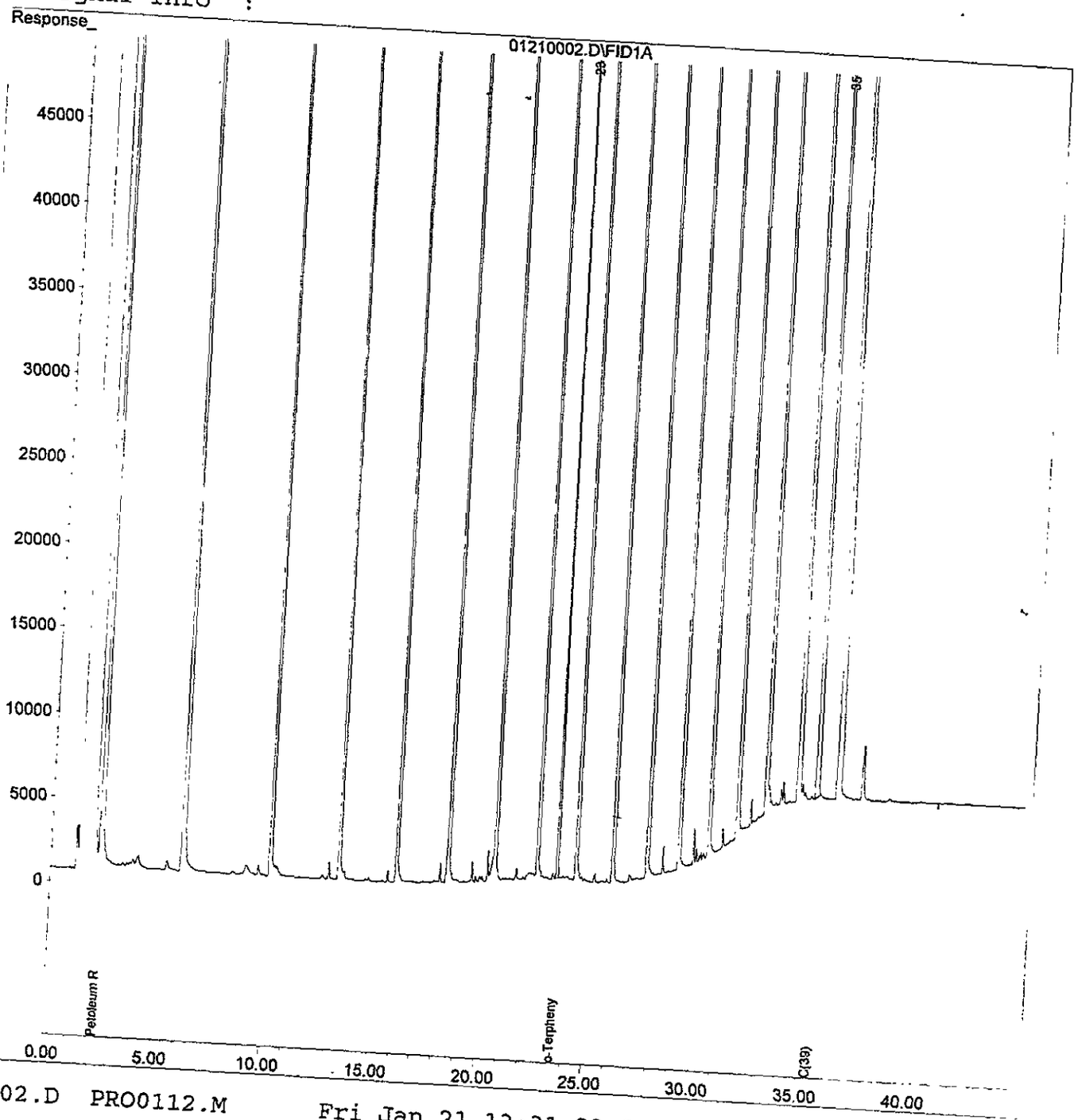
Quantitation Report

Data File : C:\HPCHEM\1\DATA\012100\01210002.D
Acq On : 21 Jan 2000 11:12 am
Sample : 4250 PHS PRO ICVS
Misc :
IntFile : PRO0914.e
Quant Time: Jan 21 13:16 2000 Quant Results File: PRO0112.RES

Vial: 2
Operator: MT
Inst : DUAL FID
Multiplr: 1.00

Quant Method : C:\HPCHEM\1\METHODS\PRO0112.M (Chemstation Integrator)
Title : FL PRO
Last Update : Wed Jan 19 16:55:15 2000
Response via : Multiple Level Calibration
DataAcq Meth : PRO0112.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\032800\03280013.D Vial: 3
Acq On : 29 Mar 2000 1:11 am Operator: MT
Sample : PROW BLANK 0326 Inst : DUAL FID
Misc : Multiplr: 1.00
IntFile : PRO0914.e
Quant Time: Mar 29 10:03 2000 Quant Results File: PRO0112.RES

Quant Method : C:\HPCHEM\1\METHODS\PRO0112.M (Chemstation Integrator)
Title : FL PRO
Last Update : Thu Mar 09 14:46:05 2000
Response via : Initial Calibration
DataAcq Meth : PRO0112.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) SC o-Terphenyl	23.38	1832972	43.923 ug/mlm
Spiked Amount 50.000	Recovery =		87.85% ✓MT
3) SC C(39)	35.29	1299707	33.824 ug/mlm
Spiked Amount 150.000	Recovery =		22.55% X MT
Target Compounds			
1) HM Petoleum Range Organics	2.15	76664824	1140.963 ug/ml /1000ml =

1.1 ppm
MT

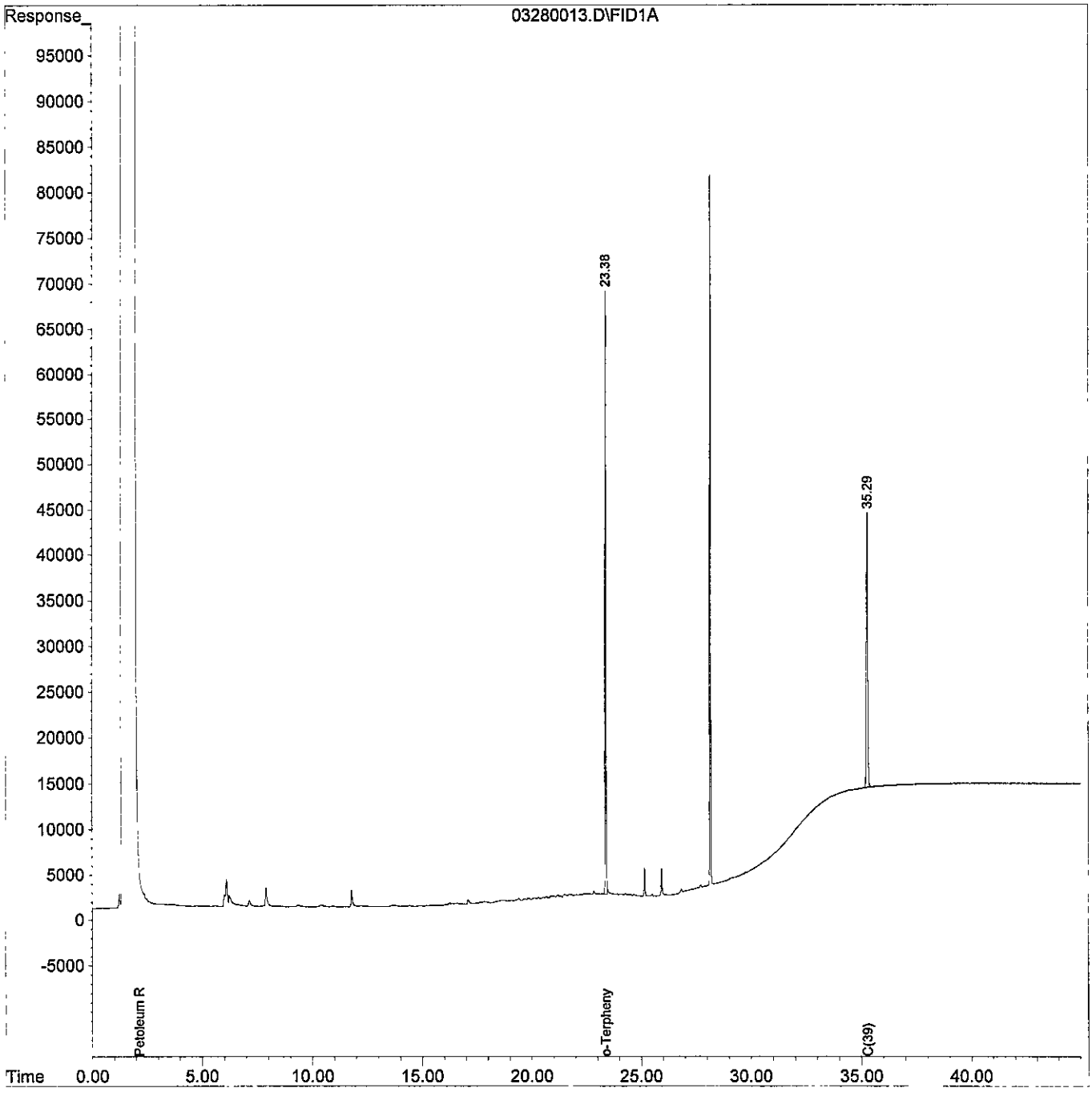
RR
CCV failed

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

Data File : C:\HPCHEM\1\DATA\032800\03280013.D Vial: 3
Acq On : 29 Mar 2000 1:11 am Operator: MT
Sample : PROW BLANK 0326 Inst : DUAL FID
Misc : Multiplr: 1.00
IntFile : PRO0914.e
Quant Time: Mar 29 10:03 2000 Quant Results File: PRO0112.RES

Quant Method : C:\HPCHEM\1\METHODS\PRO0112.M (Chemstation Integrator)
Title : FL PRO
Last Update : Thu Mar 09 14:46:05 2000
Response via : Multiple Level Calibration
DataAcq Meth : PRO0112.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\032800\03280032.D Vial: 3
Acq On : 29 Mar 2000 6:58 pm Operator: MT
Sample : PROW BLANK 0326 Inst : DUAL FID
Misc : Multiplr: 1.00
IntFile : PRO0914.e
Quant Time: Mar 30 10:41 2000 Quant Results File: PRO0112.RES

Quant Method : C:\HPCHEM\1\METHODS\PRO0112.M (Chemstation Integrator)
Title : FL PRO
Last Update : Thu Mar 09 14:46:05 2000
Response via : Initial Calibration
DataAcq Meth : PRO0112.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) SC o-Terphenyl	23.36	1756786	42.098 ug/mlm
Spiked Amount 50.000	Recovery =		84.20% MT
3) SC C(39)	35.25	1247034	32.454 ug/mlm
Spiked Amount 150.000	Recovery =		21.64% MT
Target Compounds			
1) HM Petoleum Range Organics	2.15	58718294	656.008 ug/ml

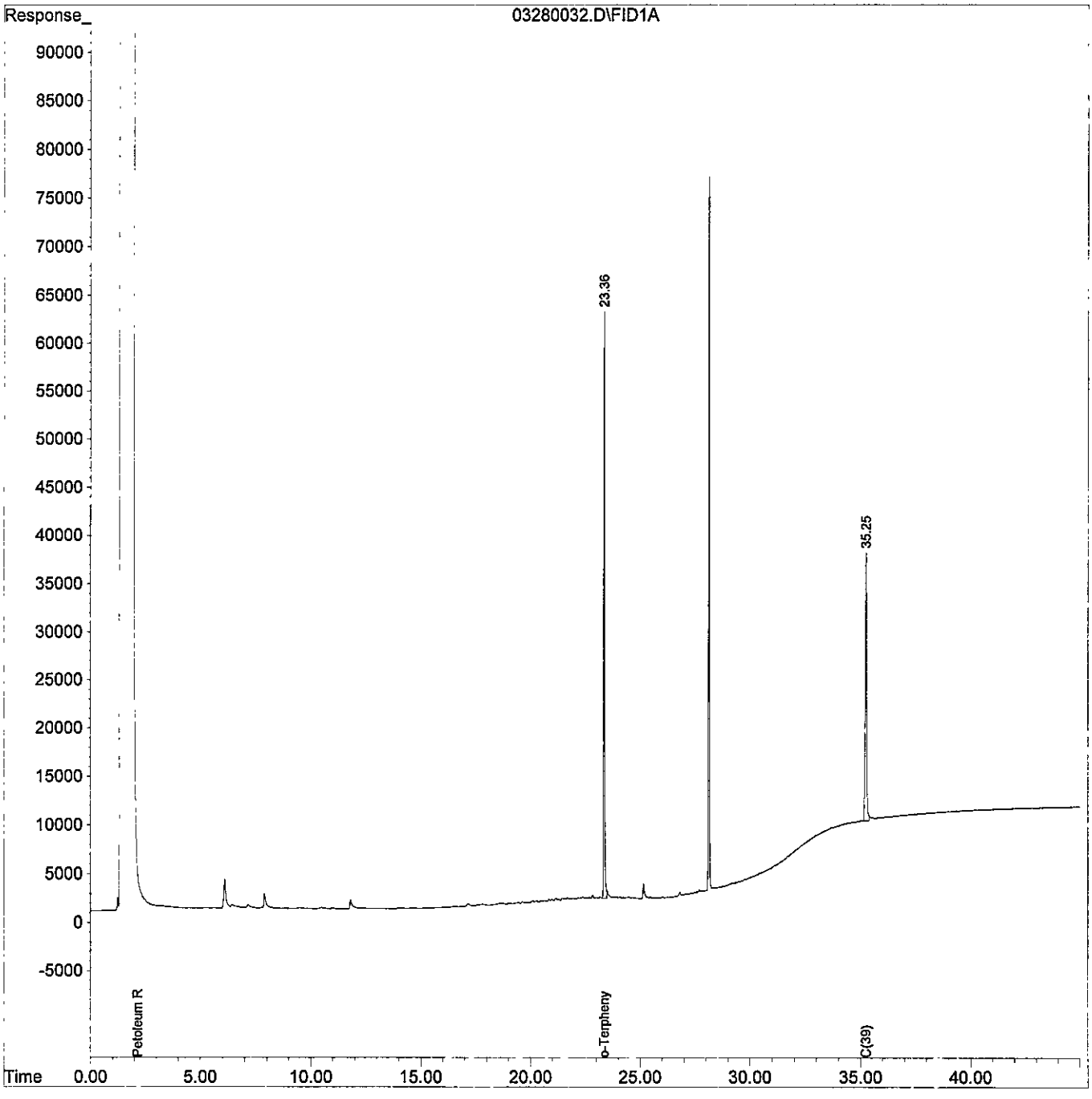
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\1\DATA\032800\03280032.D Vial: 3
Acq On : 29 Mar 2000 6:58 pm Operator: MT
Sample : PROW BLANK 0326 Inst : DUAL FID
Misc : Multiplr: 1.00
IntFile : PRO0914.e
Quant Time: Mar 30 10:41 2000 Quant Results File: PRO0112.RES

Quant Method : C:\HPCHEM\1\METHODS\PRO0112.M (Chemstation Integrator)
Title : FL PRO
Last Update : Thu Mar 09 14:46:05 2000
Response via : Multiple Level Calibration
DataAcq Meth : PRO0112.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\032800\03280014.D Vial: 4
Acq On : 29 Mar 2000 2:05 am Operator: MT
Sample : PROW LCS 0326 Inst : DUAL FID
Misc : Multiplr: 1.00
IntFile : PRO0914.e
Quant Time: Mar 29 10:04 2000 Quant Results File: PRO0112.RES

Quant Method : C:\HPCHEM\1\METHODS\PRO0112.M (Chemstation Integrator)
Title : FL PRO
Last Update : Thu Mar 09 14:46:05 2000
Response via : Initial Calibration
DataAcq Meth : PRO0112.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) SC o-Terphenyl	23.38	1774417	42.520 ug/mlm
Spiked Amount 50.000	Recovery =		85.04% ✓MT
3) SC C(39)	35.27	507150	13.198 ug/mlm
Spiked Amount 150.000	Recovery =		8.80% x MT
Target Compounds			
1) HM Petoleum Range Organics	2.15	168212013	3614.772 ug/ml / 1000ml =

3.615/4.25 x 100% =

85% /
MT

RR CCV failed

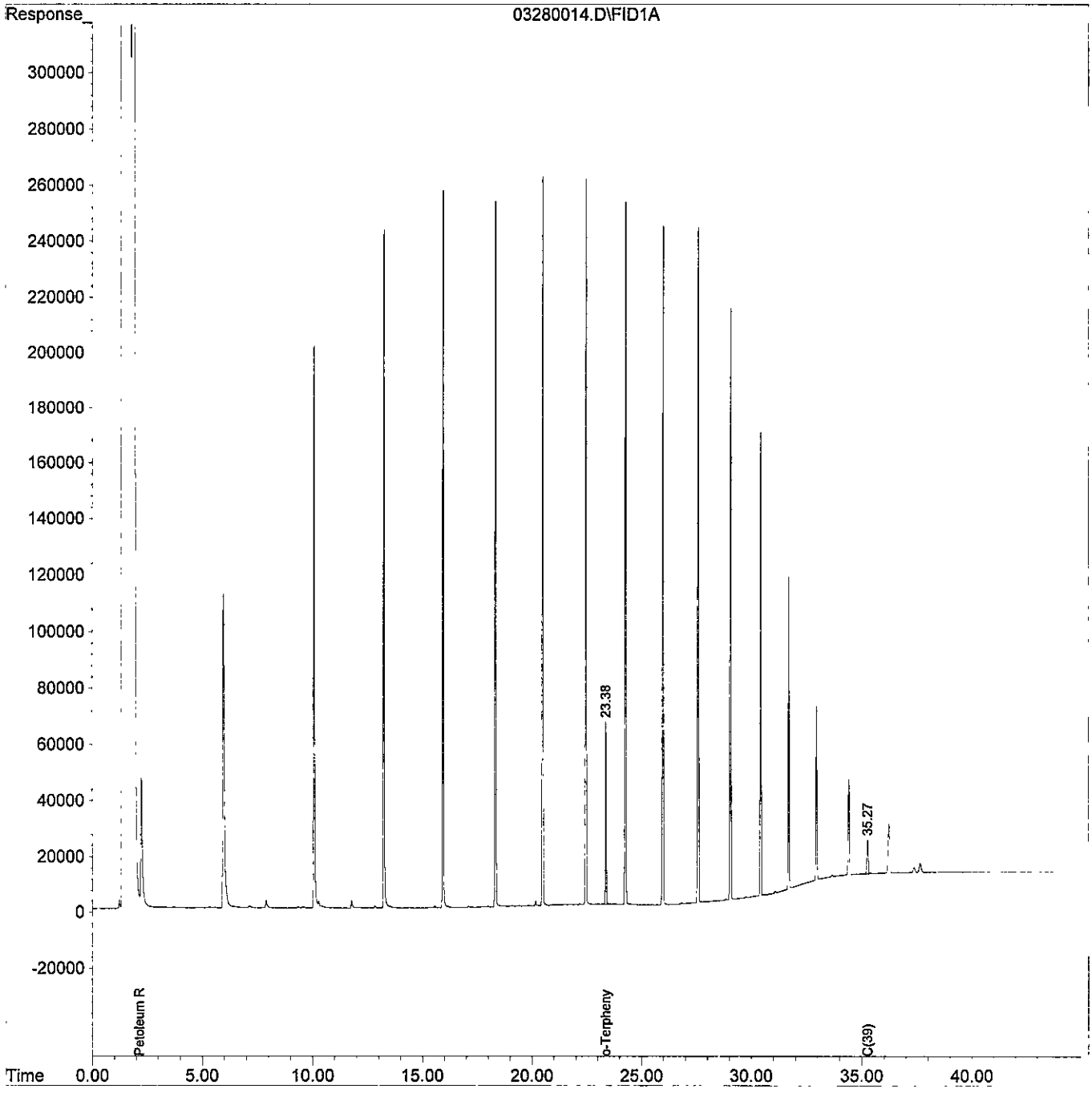
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\1\DATA\032800\03280014.D Vial: 4
Acq On : 29 Mar 2000 2:05 am Operator: MT
Sample : PROW LCS 0326 Inst : DUAL FID
Misc : Multiplr: 1.00
IntFile : PRO0914.e
Quant Time: Mar 29 10:04 2000 Quant Results File: PRO0112.RES

Quant Method : C:\HPCHEM\1\METHODS\PRO0112.M (Chemstation Integrator)
Title : FL PRO
Last Update : Thu Mar 09 14:46:05 2000
Response via : Multiple Level Calibration
DataAcq Meth : PRO0112.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\032800\03280033.D Vial: 4
Acq On : 29 Mar 2000 7:52 pm Operator: MT
Sample : PROW LCS 0326 Inst : DUAL FID
Misc : Multiplr: 1.00
IntFile : PRO0914.e
Quant Time: Mar 30 10:42 2000 Quant Results File: PRO0112.RES

Quant Method : C:\HPCHEM\1\METHODS\PRO0112.M (Chemstation Integrator)
Title : FL PRO
Last Update : Thu Mar 09 14:46:05 2000
Response via : Initial Calibration
DataAcq Meth : PRO0112.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) SC o-Terphenyl	23.36	1753564	42.021 ug/mlm
Spiked Amount 50.000	Recovery =		84.04% ✓MT
3) SC C(39)	35.24	502884	13.087 ug/mlm
Spiked Amount 150.000	Recovery =		8.72% ✓MT
Target Compounds			
1) HM Petoleum Range Organics	2.15	147880735	3065.376 ug/ml /1000ml =

3.065 / 4.25 x 100% =

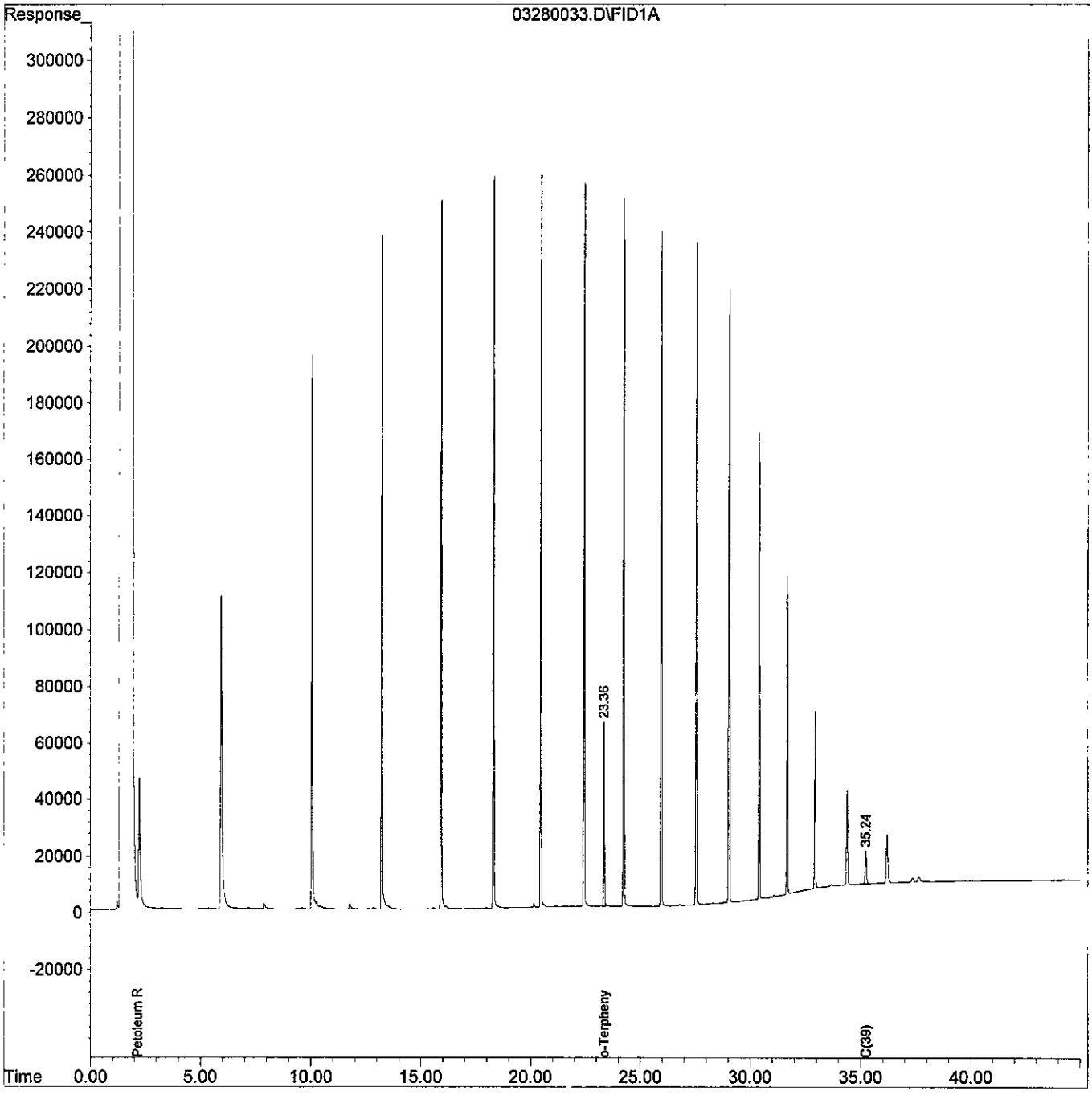
72% ✓
MT

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

Data File : C:\HPCHEM\1\DATA\032800\03280033.D Vial: 4
Acq On : 29 Mar 2000 7:52 pm Operator: MT
Sample : PROW LCS 0326 Inst : DUAL FID
Misc : Multiplr: 1.00
IntFile : PRO0914.e
Quant Time: Mar 30 10:42 2000 Quant Results File: PRO0112.RES

Quant Method : C:\HPCHEM\1\METHODS\PRO0112.M (Chemstation Integrator)
Title : FL PRO
Last Update : Thu Mar 09 14:46:05 2000
Response via : Multiple Level Calibration
DataAcq Meth : PRO0112.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\032800\03280015.D Vial: 5
Acq On : 29 Mar 2000 2:59 am Operator: MT
Sample : AB89497 Inst : DUAL FID
Misc : 23975 1000ml Multiplr: 1.00
IntFile : PRO0914.e
Quant Time: Mar 29 10:05 2000 Quant Results File: PRO0112.RES

Quant Method : C:\HPCHEM\1\METHODS\PRO0112.M (Chemstation Integrator)
Title : FL PRO
Last Update : Thu Mar 09 14:46:05 2000
Response via : Initial Calibration
DataAcq Meth : PRO0112.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) SC o-Terphenyl	23.37	955400	22.894 ug/mlm
Spiked Amount 50.000	Recovery =		45.79% x MT
3) SC C(39)	35.30	2900615	75.487 ug/mlm
Spiked Amount 150.000	Recovery =		50.32% ✓ MT
Target Compounds			
1) HM Petoleum Range Organics	2.15	70833719	983.393 ug/ml =

<DL
MT

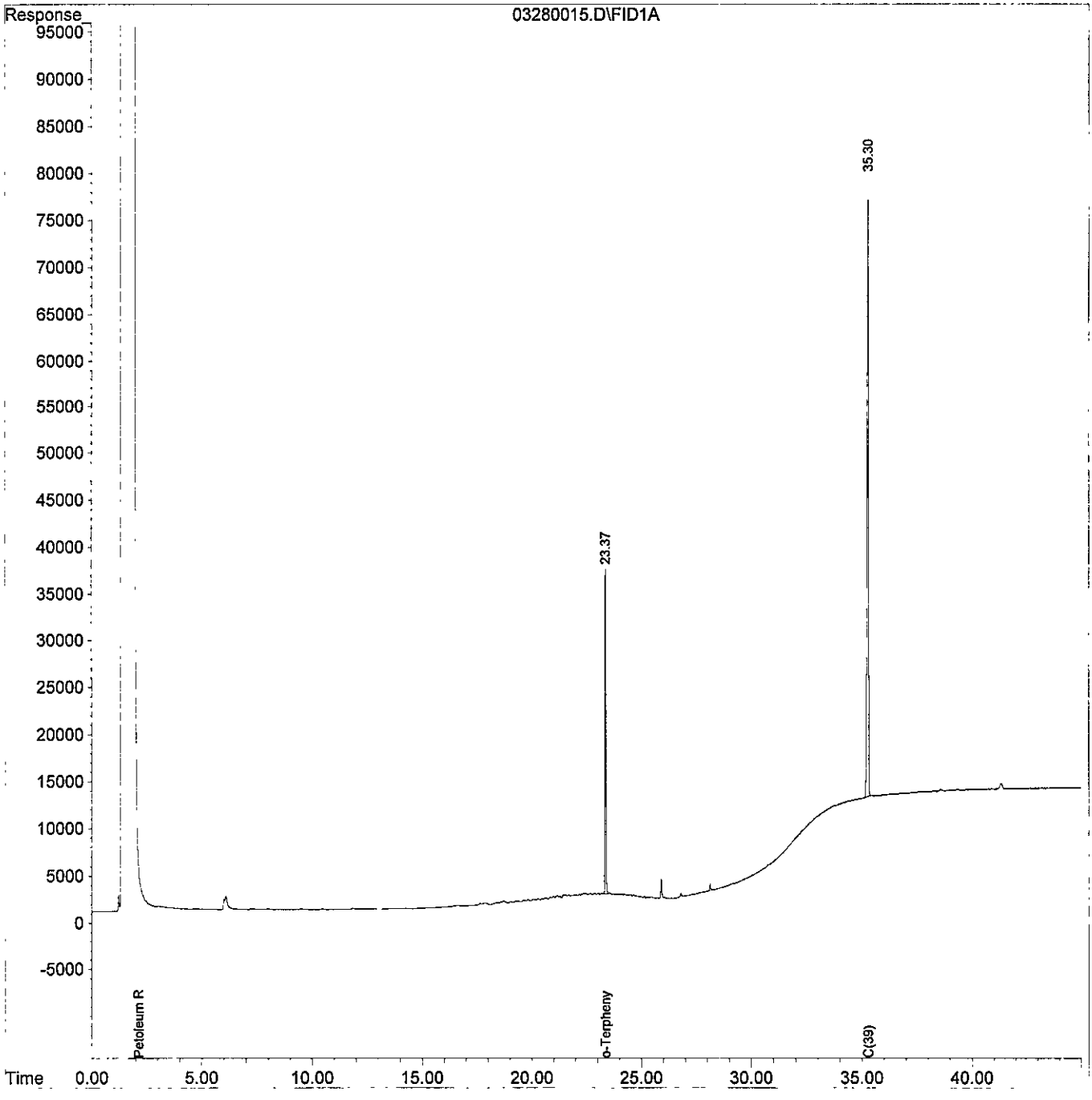
RC
CCV failed

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

Data File : C:\HPCHEM\1\DATA\032800\03280015.D Vial: 5
Acq On : 29 Mar 2000 2:59 am Operator: MT
Sample : AB89497 Inst : DUAL FID
Misc : 23975 1000ml Multiplr: 1.00
IntFile : PRO0914.e
Quant Time: Mar 29 10:05 2000 Quant Results File: PRO0112.RES

Quant Method : C:\HPCHEM\1\METHODS\PRO0112.M (Chemstation Integrator)
Title : FL PRO
Last Update : Thu Mar 09 14:46:05 2000
Response via : Multiple Level Calibration
DataAcq Meth : PRO0112.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\032800\03280034.D Vial: 5
Acq On : 29 Mar 2000 8:45 pm Operator: MT
Sample : AB89497 Inst : DUAL FID
Misc : 23975 1000ml Multiplr: 1.00
IntFile : PRO0914.e
Quant Time: Mar 30 10:43 2000 Quant Results File: PRO0112.RES

Quant Method : C:\HPCHEM\1\METHODS\PRO0112.M (Chemstation Integrator)
Title : FL PRO
Last Update : Thu Mar 09 14:46:05 2000
Response via : Initial Calibration
DataAcq Meth : PRO0112.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) SC o-Terphenyl	23.36	921144	22.073 ug/mlm
Spiked Amount 50.000	Recovery =		44.15% ✗ NT
3) SC C(39)	35.27	2881507	74.990 ug/mlm
Spiked Amount 150.000	Recovery =		49.99% ✓ NT
Target Compounds			
1) HM Petoleum Range Organics	2.15	50536518	434.918 ug/ml =

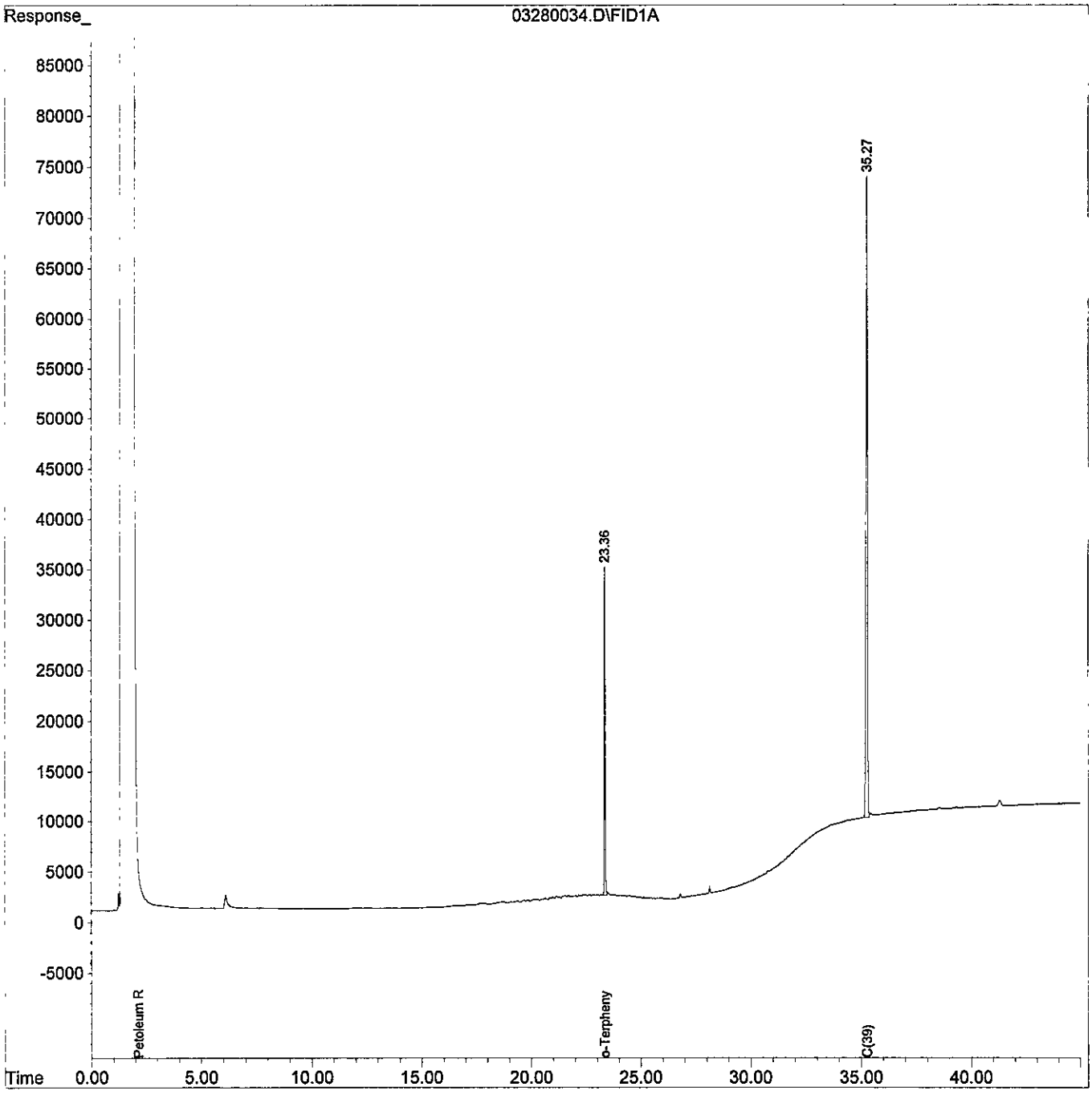
<DL

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

Data File : C:\HPCHEM\1\DATA\032800\03280034.D Vial: 5
Acq On : 29 Mar 2000 8:45 pm Operator: MT
Sample : AB89497 Inst : DUAL FID
Misc : 23975 1000ml Multiplr: 1.00
IntFile : PRO0914.e
Quant Time: Mar 30 10:43 2000 Quant Results File: PRO0112.RES

Quant Method : C:\HPCHEM\1\METHODS\PRO0112.M (Chemstation Integrator)
Title : FL PRO
Last Update : Thu Mar 09 14:46:05 2000
Response via : Multiple Level Calibration
DataAcq Meth : PRO0112.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\032800\03280016.D Vial: 6
Acq On : 29 Mar 2000 3:52 am Operator: MT
Sample : AB89498 Inst : DUAL FID
Misc : 23975 1000ml Multiplr: 1.00
IntFile : PRO0914.e
Quant Time: Mar 29 10:05 2000 Quant Results File: PRO0112.RES

Quant Method : C:\HPCHEM\1\METHODS\PRO0112.M (Chemstation Integrator)
Title : FL PRO
Last Update : Thu Mar 09 14:46:05 2000
Response via : Initial Calibration
DataAcq Meth : PRO0112.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) SC o-Terphenyl	23.37	868701	20.817 ug/mlm
Spiked Amount 50.000	Recovery =		41.63% x MT
3) SC C(39)	35.28	1813473	47.195 ug/mlm
Spiked Amount 150.000	Recovery =		31.46% x MT
Target Compounds			
1) HM Petoleum Range Organics	2.15	61847596	740.568 ug/ml =

<DL
MT

RR
CCV failed

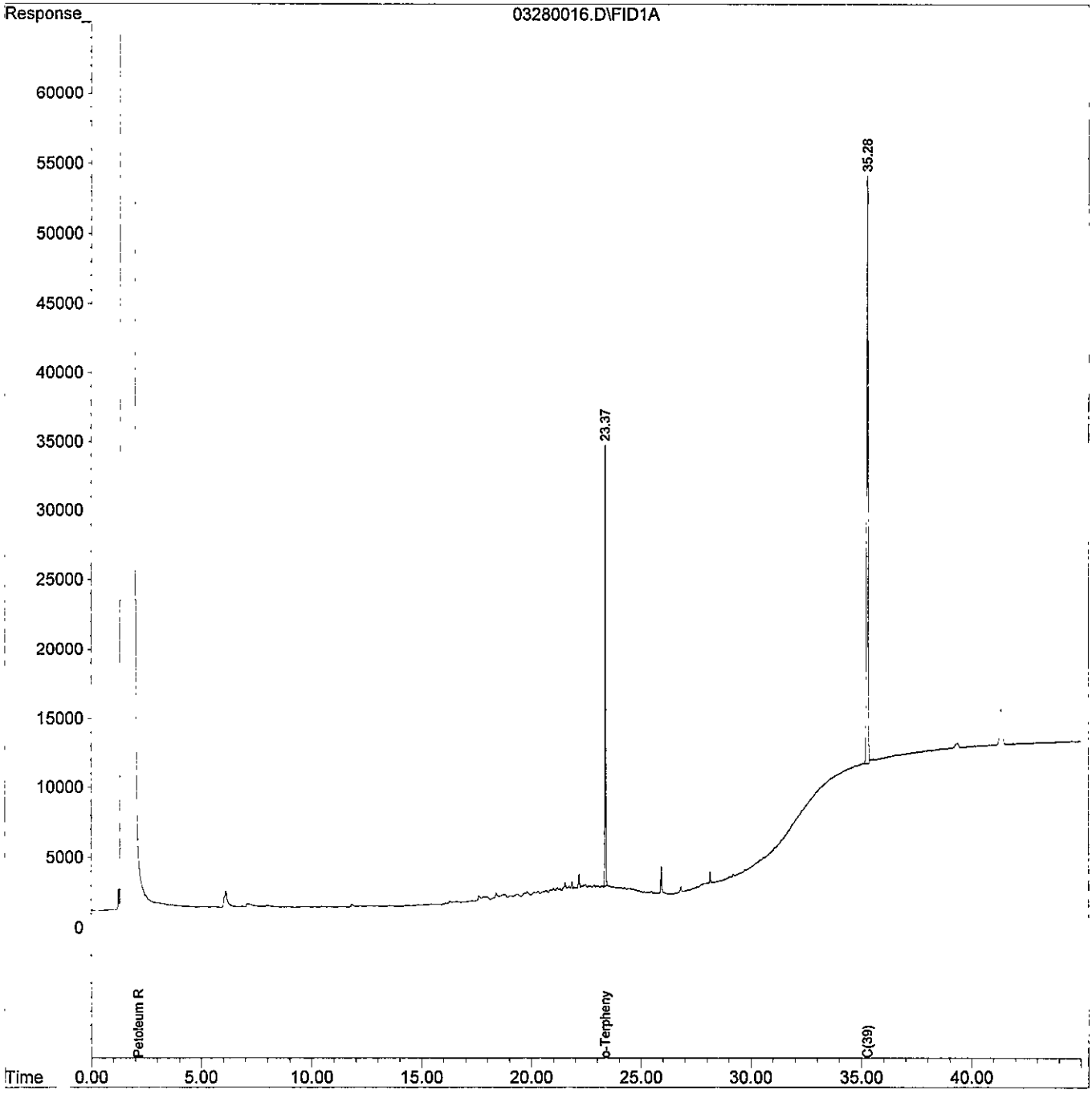
(f)=RT Delta > 1/2 Window (m)=manual int.
03280016.D PRO0112.M Wed Mar 29 10:47:54 2000 Page 1

Quantitation Report

Data File : C:\HPCHEM\1\DATA\032800\03280016.D Vial: 6
Acq On : 29 Mar 2000 3:52 am Operator: MT
Sample : AB89498 Inst : DUAL FID
Misc : 23975 1000ml Multiplr: 1.00
IntFile : PRO0914.e
Quant Time: Mar 29 10:05 2000 Quant Results File: PRO0112.RES

Quant Method : C:\HPCHEM\1\METHODS\PRO0112.M (Chemstation Integrator)
Title : FL PRO
Last Update : Thu Mar 09 14:46:05 2000
Response via : Multiple Level Calibration
DataAcq Meth : PRO0112.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\032800\03280037.D Vial: 6
Acq On : 29 Mar 2000 11:26 pm Operator: MT
Sample : AB89498 Inst : DUAL FID
Misc : 23975 1000ml Multiplr: 1.00
IntFile : PRO0914.e
Quant Time: Mar 30 10:47 2000 Quant Results File: PRO0112.RES

Quant Method : C:\HPCHEM\1\METHODS\PRO0112.M (Chemstation Integrator)
Title : FL PRO
Last Update : Thu Mar 09 14:46:05 2000
Response via : Initial Calibration
DataAcq Meth : PRO0112.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) SC o-Terphenyl	23.36	858403	20.570 ug/mlm
Spiked Amount 50.000	Recovery =		41.14% x MT
3) SC C(39)	35.26	1758046	45.752 ug/mlm
Spiked Amount 150.000	Recovery =		30.50% x MT
Target Compounds			
1) HM Petoleum Range Organics	2.15	42220378	210.197 ug/ml ≤

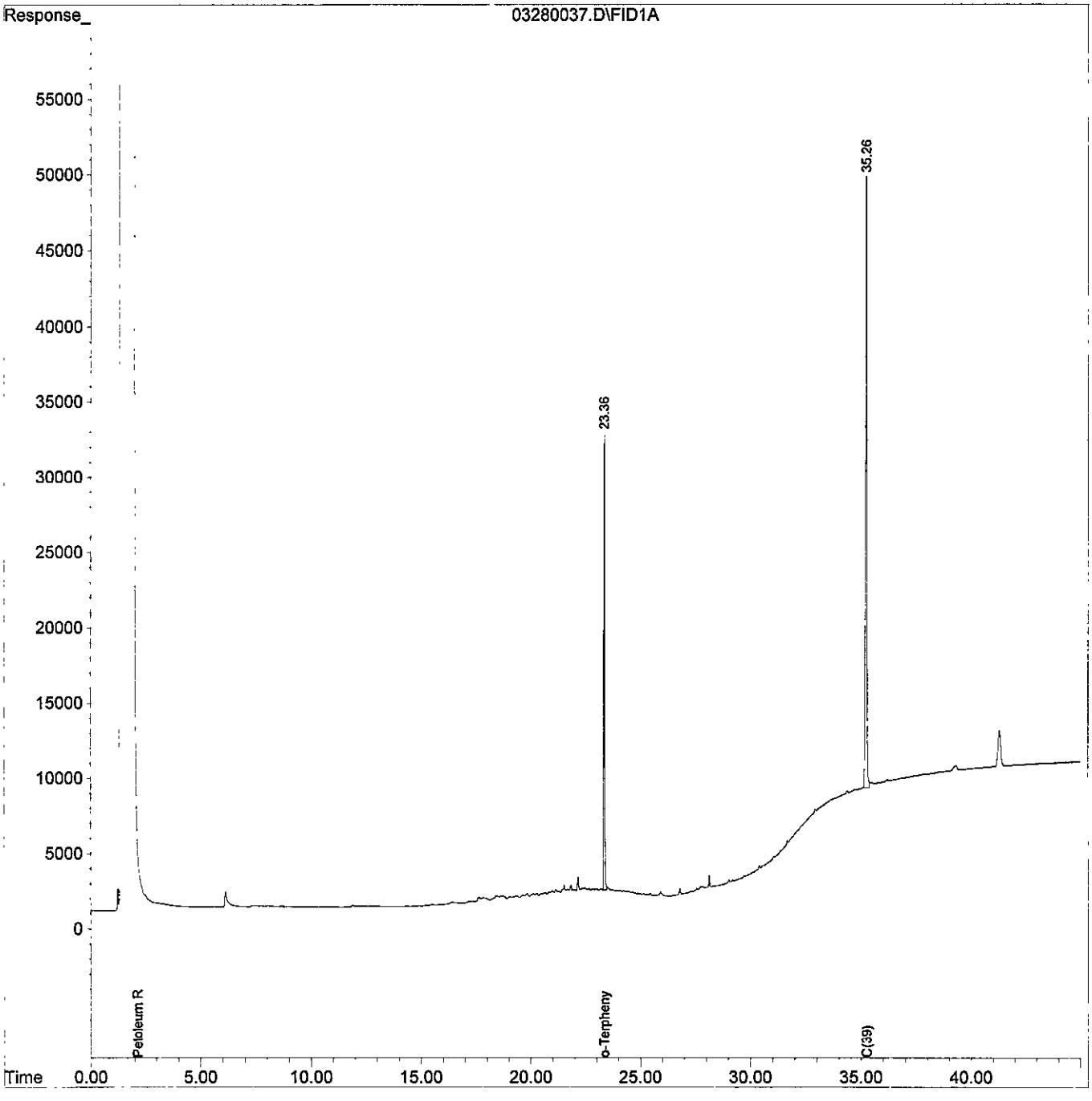
<DL
MT

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

Data File : C:\HPCHEM\1\DATA\032800\03280037.D Vial: 6
Acq On : 29 Mar 2000 11:26 pm Operator: MT
Sample : AB89498 Inst : DUAL FID
Misc : 23975 1000ml Multiplr: 1.00
IntFile : PRO0914.e
Quant Time: Mar 30 10:47 2000 Quant Results File: PRO0112.RES

Quant Method : C:\HPCHEM\1\METHODS\PRO0112.M (Chemstation Integrator)
Title : FL PRO
Last Update : Thu Mar 09 14:46:05 2000
Response via : Multiple Level Calibration
DataAcq Meth : PRO0112.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\032800\03280017.D Vial: 7
Acq On : 29 Mar 2000 4:46 am Operator: MT
Sample : AB89499 Inst : DUAL FID
Misc : 23975 1000ml Multiplr: 1.00
IntFile : PRO0914.e
Quant Time: Mar 29 10:06 2000 Quant Results File: PRO0112.RES

Quant Method : C:\HPCHEM\1\METHODS\PRO0112.M (Chemstation Integrator)
Title : FL PRO
Last Update : Thu Mar 09 14:46:05 2000
Response via : Initial Calibration
DataAcq Meth : PRO0112.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) SC o-Terphenyl	23.37	599362	14.362 ug/mlm
Spiked Amount 50.000	Recovery =		28.72% ✗ MT
3) SC C(39)	35.29	3080803	80.177 ug/mlm
Spiked Amount 150.000	Recovery =		53.45% ✓ MT
Target Compounds			
1) HM Petoleum Range Organics	2.15	101661474	1816.428 ug/ml /1000ml =

1.8 ppm
MT

RR
CCV failed

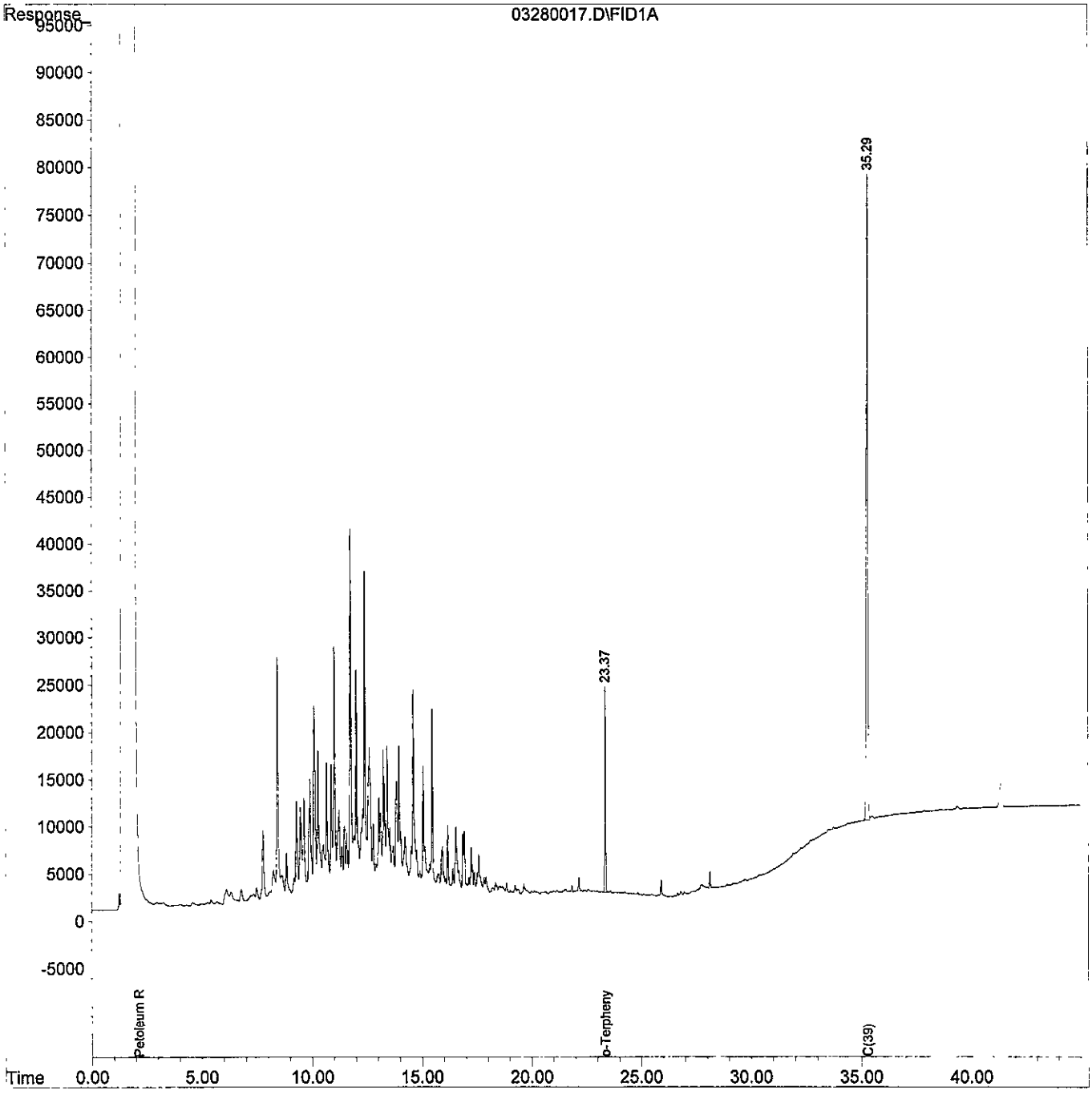
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\1\DATA\032800\03280017.D Vial: 7
Acq On : 29 Mar 2000 4:46 am Operator: MT
Sample : AB89499 Inst : DUAL FID
Misc : 23975 1000ml Multiplr: 1.00
IntFile : PRO0914.e
Quant Time: Mar 29 10:06 2000 Quant Results File: PRO0112.RES

Quant Method : C:\HPCHEM\1\METHODS\PRO0112.M (Chemstation Integrator)
Title : FL PRO
Last Update : Thu Mar 09 14:46:05 2000
Response via : Multiple Level Calibration
DataAcq Meth : PRO0112.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\032800\03280038.D Vial: 7
Acq On : 30 Mar 2000 12:20 am Operator: MT
Sample : AB89499 Inst : DUAL FID
Misc : 23975 1000ml Multiplr: 1.00
IntFile : PRO0914.e
Quant Time: Mar 30 10:48 2000 Quant Results File: PRO0112.RES

Quant Method : C:\HPCHEM\1\METHODS\PRO0112.M (Chemstation Integrator)
Title : FL PRO
Last Update : Thu Mar 09 14:46:05 2000
Response via : Initial Calibration
DataAcq Meth : PRO0112.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) SC o-Terphenyl	23.36	585424	14.028 ug/mlm
Spiked Amount 50.000	Recovery =		28.06% ✓ MT
3) SC C(39)	35.27	3111905	80.986 ug/mlm
Spiked Amount 150.000	Recovery =		53.99% ✓ MT
Target Compounds			
1) HM Petoleum Range Organics	2.15	82036995	1286.131 ug/ml / 1000 ml = 1.3 ppm MT

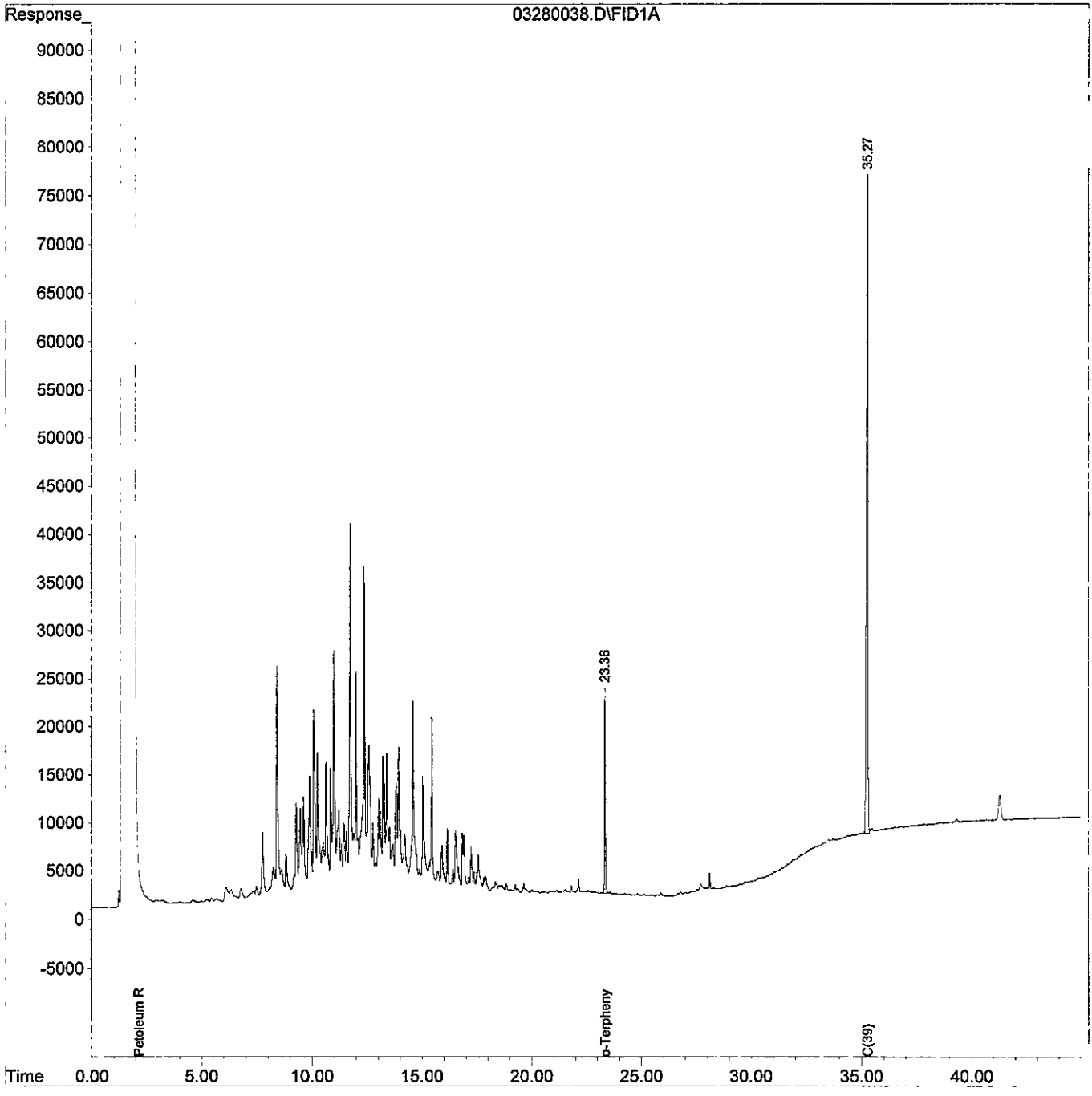
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\1\DATA\032800\03280038.D Vial: 7
Acq On : 30 Mar 2000 12:20 am Operator: MT
Sample : AB89499 Inst : DUAL FID
Misc : 23975 1000ml Multiplr: 1.00
IntFile : PRO0914.e
Quant Time: Mar 30 10:48 2000 Quant Results File: PRO0112.RES

Quant Method : C:\HPCHEM\1\METHODS\PRO0112.M (Chemstation Integrator)
Title : FL PRO
Last Update : Thu Mar 09 14:46:05 2000
Response via : Multiple Level Calibration
DataAcq Meth : PRO0112.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\032800\03280018.D Vial: 8
Acq On : 29 Mar 2000 5:40 am Operator: MT
Sample : AB89500 Inst : DUAL FID
Misc : 23975 1000ml Multiplr: 1.00
IntFile : PRO0914.e
Quant Time: Mar 29 10:06 2000 Quant Results File: PRO0112.RES

Quant Method : C:\HPCHEM\1\METHODS\PRO0112.M (Chemstation Integrator)
Title : FL PRO
Last Update : Thu Mar 09 14:46:05 2000
Response via : Initial Calibration
DataAcq Meth : PRO0112.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) SC o-Terphenyl	23.37	744041	17.829 ug/mlm
Spiked Amount 50.000	Recovery =		35.66% x MT
3) SC C(39)	35.28	2087794	54.334 ug/mlm
Spiked Amount 150.000	Recovery =		36.22% x MT
Target Compounds			
1) HM Petoleum Range Organics	2.15	350183396	8532.044 ug/ml / 1000ml =

8.5 ppm
MT

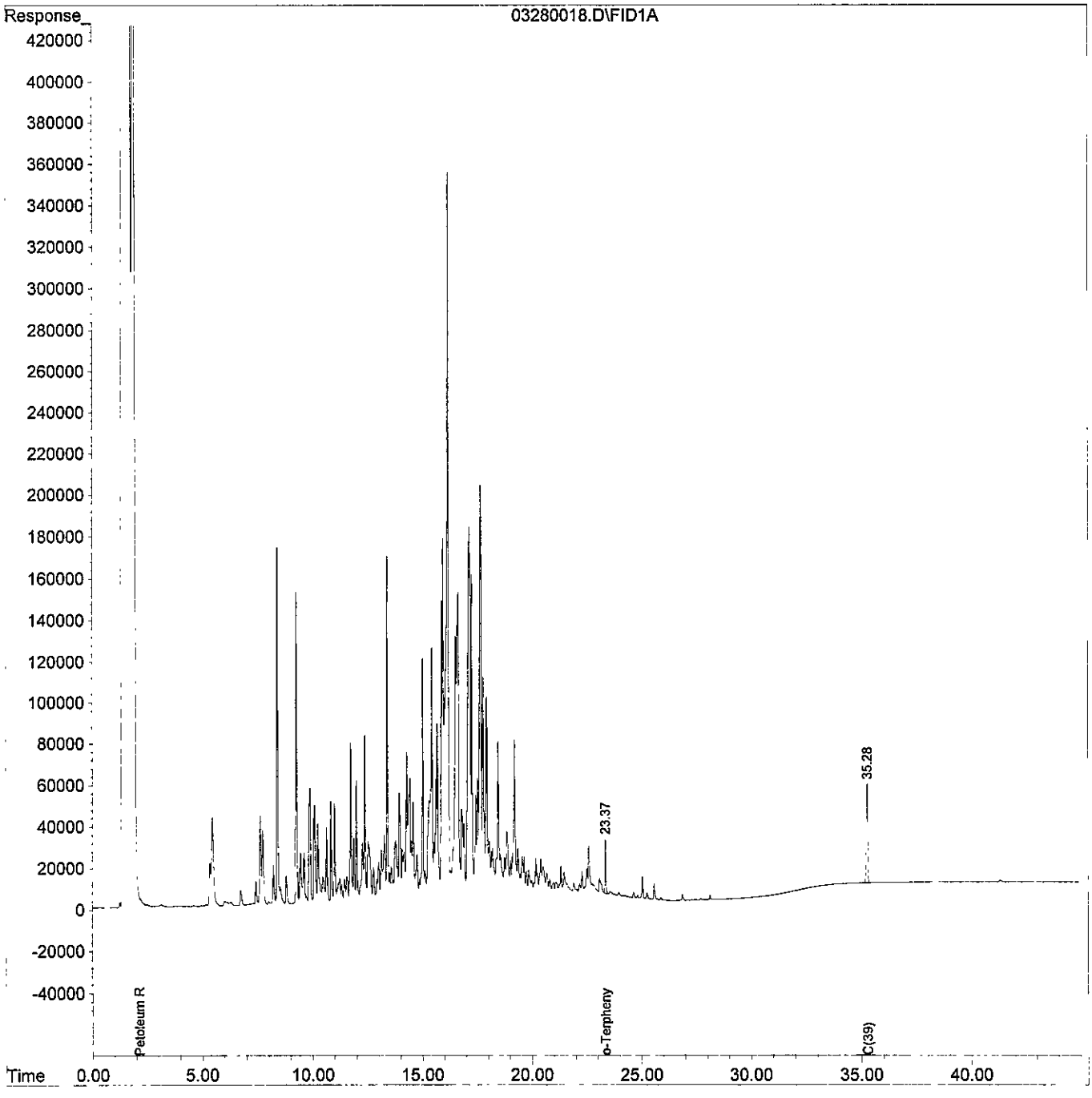
RR CCV failed

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

Data File : C:\HPCHEM\1\DATA\032800\03280018.D Vial: 8
Acq On : 29 Mar 2000 5:40 am Operator: MT
Sample : AB89500 Inst : DUAL FID
Misc : 23975 1000ml Multiplr: 1.00
IntFile : PRO0914.e
Quant Time: Mar 29 10:06 2000 Quant Results File: PRO0112.RES

Quant Method : C:\HPCHEM\1\METHODS\PRO0112.M (Chemstation Integrator)
Title : FL PRO
Last Update : Thu Mar 09 14:46:05 2000
Response via : Multiple Level Calibration
DataAcq Meth : PRO0112.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\032800\03280039.D Vial: 8
Acq On : 30 Mar 2000 1:14 am Operator: MT
Sample : AB89500 Inst : DUAL FID
Misc : 23975 1000ml Multiplr: 1.00
IntFile : PRO0914.e
Quant Time: Mar 30 10:48 2000 Quant Results File: PRO0112.RES

Quant Method : C:\HPCHEM\1\METHODS\PRO0112.M (Chemstation Integrator)
Title : FL PRO
Last Update : Thu Mar 09 14:46:05 2000
Response via : Initial Calibration
DataAcq Meth : PRO0112.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) SC o-Terphenyl	23.35	713868	17.106 ug/mlm
Spiked Amount 50.000	Recovery =		34.21% x MT
3) SC C(39)	35.25	2140689	55.711 ug/mlm
Spiked Amount 150.000	Recovery =		37.14% x MT
Target Compounds			
1) HM Petoleum Range Organics	2.15	342570039	8326.315 ug/ml / 1000ml =

8.3 ppm
MT

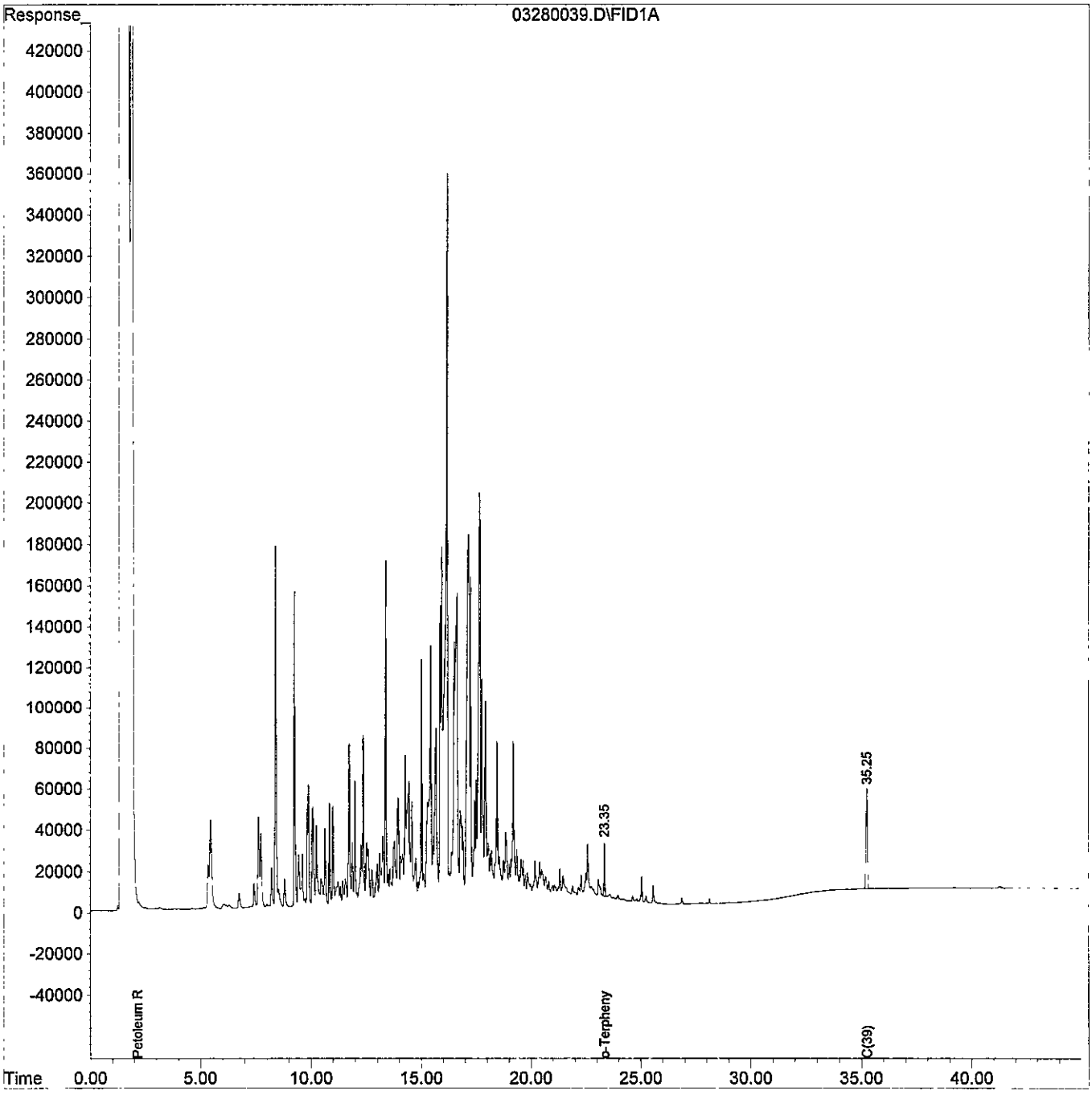
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\1\DATA\032800\03280039.D Vial: 8
Acq On : 30 Mar 2000 1:14 am Operator: MT
Sample : AB89500 Inst : DUAL FID
Misc : 23975 1000ml Multiplr: 1.00
IntFile : PRO0914.e
Quant Time: Mar 30 10:48 2000 Quant Results File: PRO0112.RES

Quant Method : C:\HPCHEM\1\METHODS\PRO0112.M (Chemstation Integrator)
Title : FL PRO
Last Update : Thu Mar 09 14:46:05 2000
Response via : Multiple Level Calibration
DataAcq Meth : PRO0112.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\032800\03280019.D Vial: 9
Acq On : 29 Mar 2000 6:34 am Operator: MT
Sample : AB89501 Inst : DUAL FID
Misc : 23975 1000ml Multiplr: 1.00
IntFile : PRO0914.e
Quant Time: Mar 29 10:07 2000 Quant Results File: PRO0112.RES

Quant Method : C:\HPCHEM\1\METHODS\PRO0112.M (Chemstation Integrator)
Title : FL PRO
Last Update : Thu Mar 09 14:46:05 2000
Response via : Initial Calibration
DataAcq Meth : PRO0112.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) SC o-Terphenyl	23.37	914186	21.907 ug/mlm
Spiked Amount 50.000	Recovery =		43.81% X MT
3) SC C(39)	35.28	2289766	59.590 ug/mlm
Spiked Amount 150.000	Recovery =		39.73% x MT
Target Compounds			
1) HM Petoleum Range Organics	2.15	405669867	10031.413 ug/ml

over cal

RR CCV failed

RR 5X

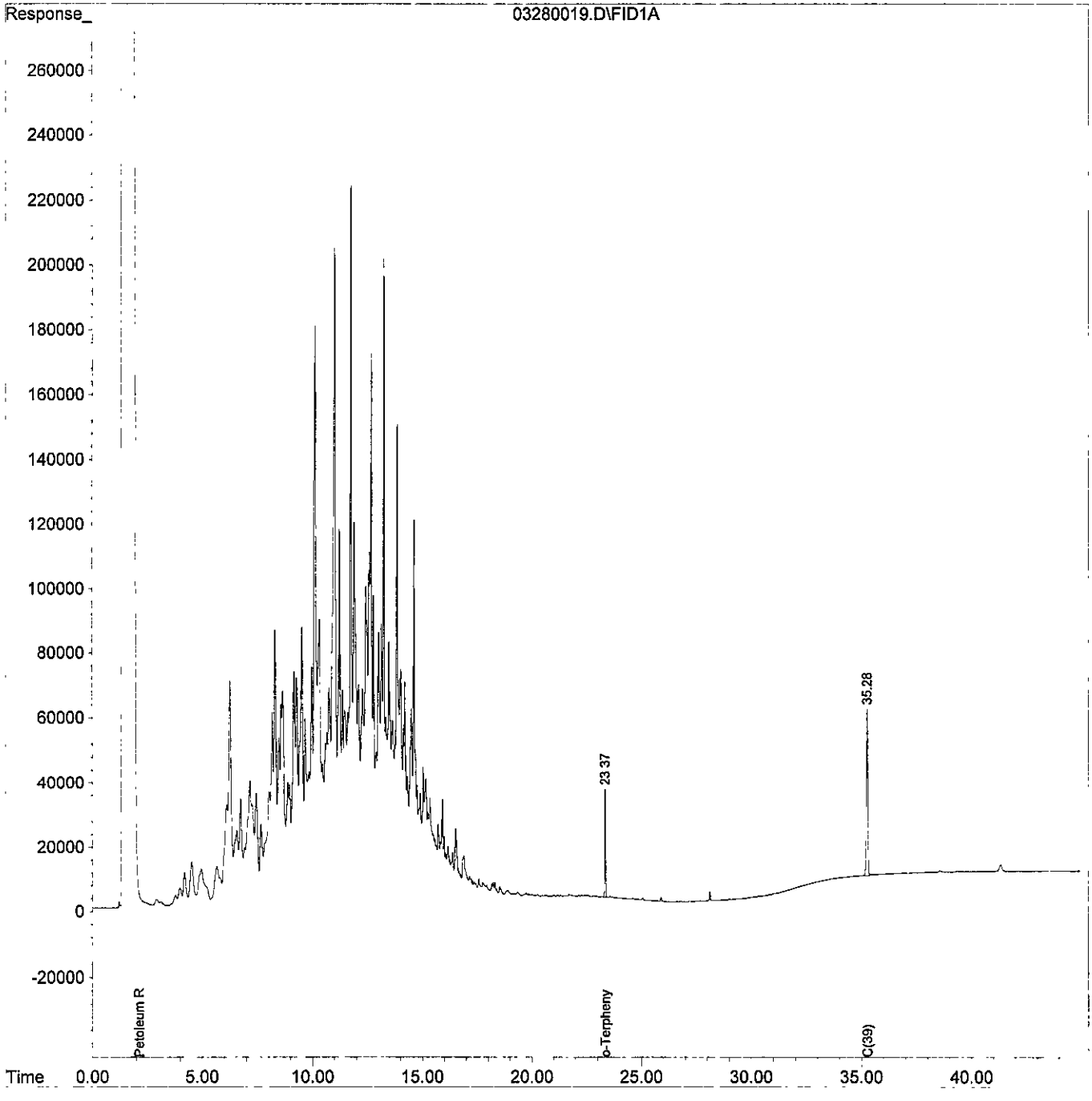
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\1\DATA\032800\03280019.D Vial: 9
Acq On : 29 Mar 2000 6:34 am Operator: MT
Sample : AB89501 Inst : DUAL FID
Misc : 23975 1000ml Multiplr: 1.00
IntFile : PRO0914.e
Quant Time: Mar 29 10:07 2000 Quant Results File: PRO0112.RES

Quant Method : C:\HPCHEM\1\METHODS\PRO0112.M (Chemstation Integrator)
Title : FL PRO
Last Update : Thu Mar 09 14:46:05 2000
Response via : Multiple Level Calibration
DataAcq Meth : PRO0112.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\032800\03280040.D Vial: 9
Acq On : 30 Mar 2000 2:07 am Operator: MT
Sample : AB89501 5X Inst : DUAL FID
Misc : 23975 1000ml Multiplr: 1.00
IntFile : PRO0914.e
Quant Time: Mar 30 10:49 2000 Quant Results File: PRO0112.RES

Quant Method : C:\HPCHEM\1\METHODS\PRO0112.M (Chemstation Integrator)
Title : FL PRO
Last Update : Thu Mar 09 14:46:05 2000
Response via : Initial Calibration
DataAcq Meth : PRO0112.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) SC o-Terphenyl	23.36	179379	4.298 ug/mlm
Spiked Amount 50.000	Recovery =		8.60% x5 = 43 x MT
3) SC C(39)	35.23	427511	11.126 ug/mlm
Spiked Amount 150.000	Recovery =		7.42% x5 = 37 x MT
Target Compounds			
1) HM Petoleum Range Organics	2.15	111057538	2070.331 ug/ml /1000ml =

2.070 x 5 =

10 ppm

MT

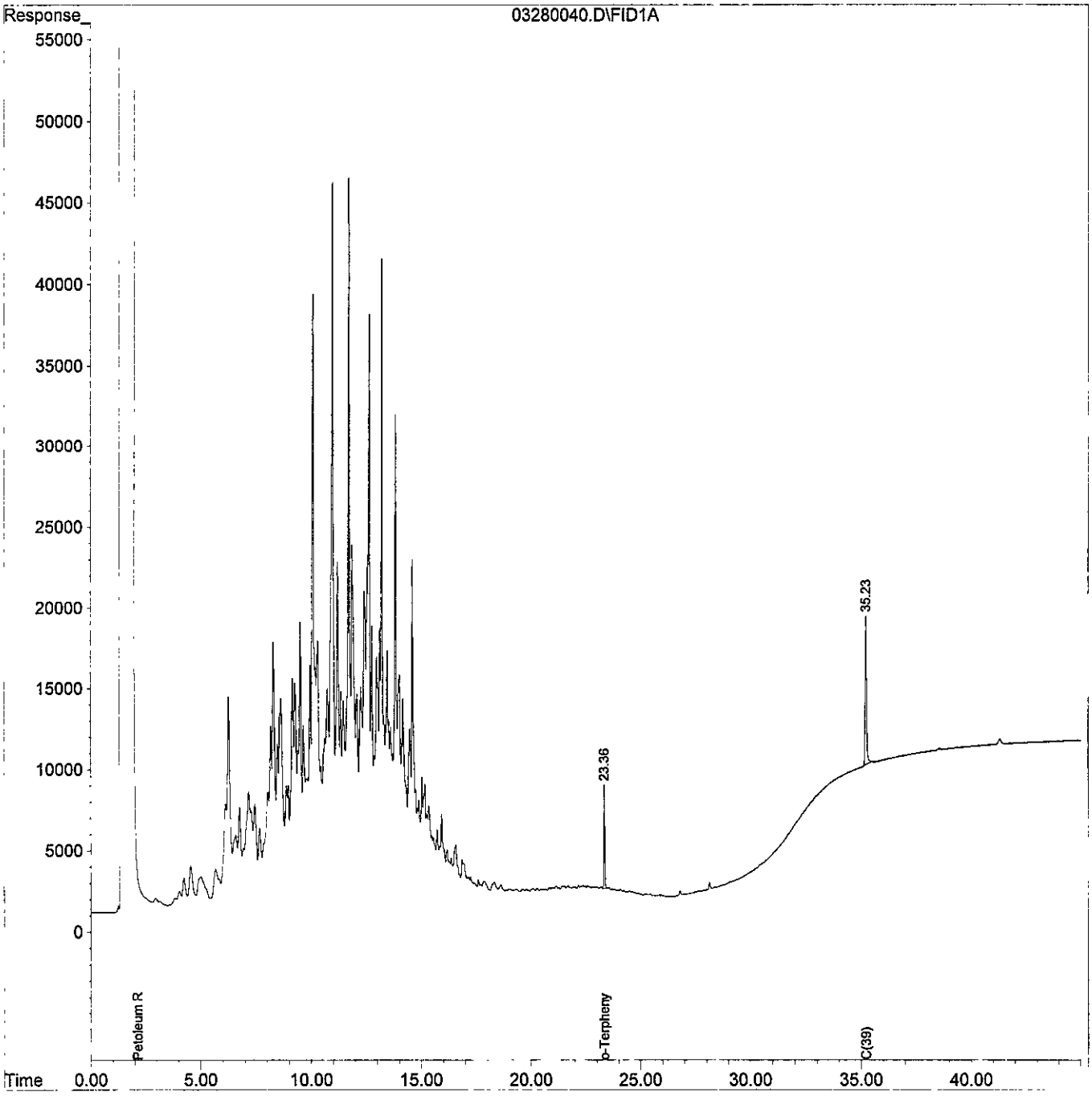
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\1\DATA\032800\03280040.D Vial: 9
Acq On : 30 Mar 2000 2:07 am Operator: MT
Sample : AB89501 5X Inst : DUAL FID
Misc : 23975 1000ml Multiplr: 1.00
IntFile : PRO0914.e
Quant Time: Mar 30 10:49 2000 Quant Results File: PRO0112.RES

Quant Method : C:\HPCHEM\1\METHODS\PRO0112.M (Chemstation Integrator)
Title : FL PRO
Last Update : Thu Mar 09 14:46:05 2000
Response via : Multiple Level Calibration
DataAcq Meth : PRO0112.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\032800\03280020.D Vial: 10
Acq On : 29 Mar 2000 7:27 am Operator: MT
Sample : AB89502 Inst : DUAL FID
Misc : 23975 1000ml Multiplr: 1.00
IntFile : PRO0914.e
Quant Time: Mar 29 10:07 2000 Quant Results File: PRO0112.RES

Quant Method : C:\HPCHEM\1\METHODS\PRO0112.M (Chemstation Integrator)
Title : FL PRO
Last Update : Thu Mar 09 14:46:05 2000
Response via : Initial Calibration
DataAcq Meth : PRO0112.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) SC o-Terphenyl	23.37	1018073	24.396 ug/mlm
Spiked Amount 50.000	Recovery =		48.79% x MT
3) SC C(39)	35.28	2466059	64.178 ug/mlm
Spiked Amount 150.000	Recovery =		42.79% ✓MT
Target Compounds			
1) HM Petoleum Range Organics	2.15	66711838	872.011 ug/ml =

<DL
MT

RR CCV
failed

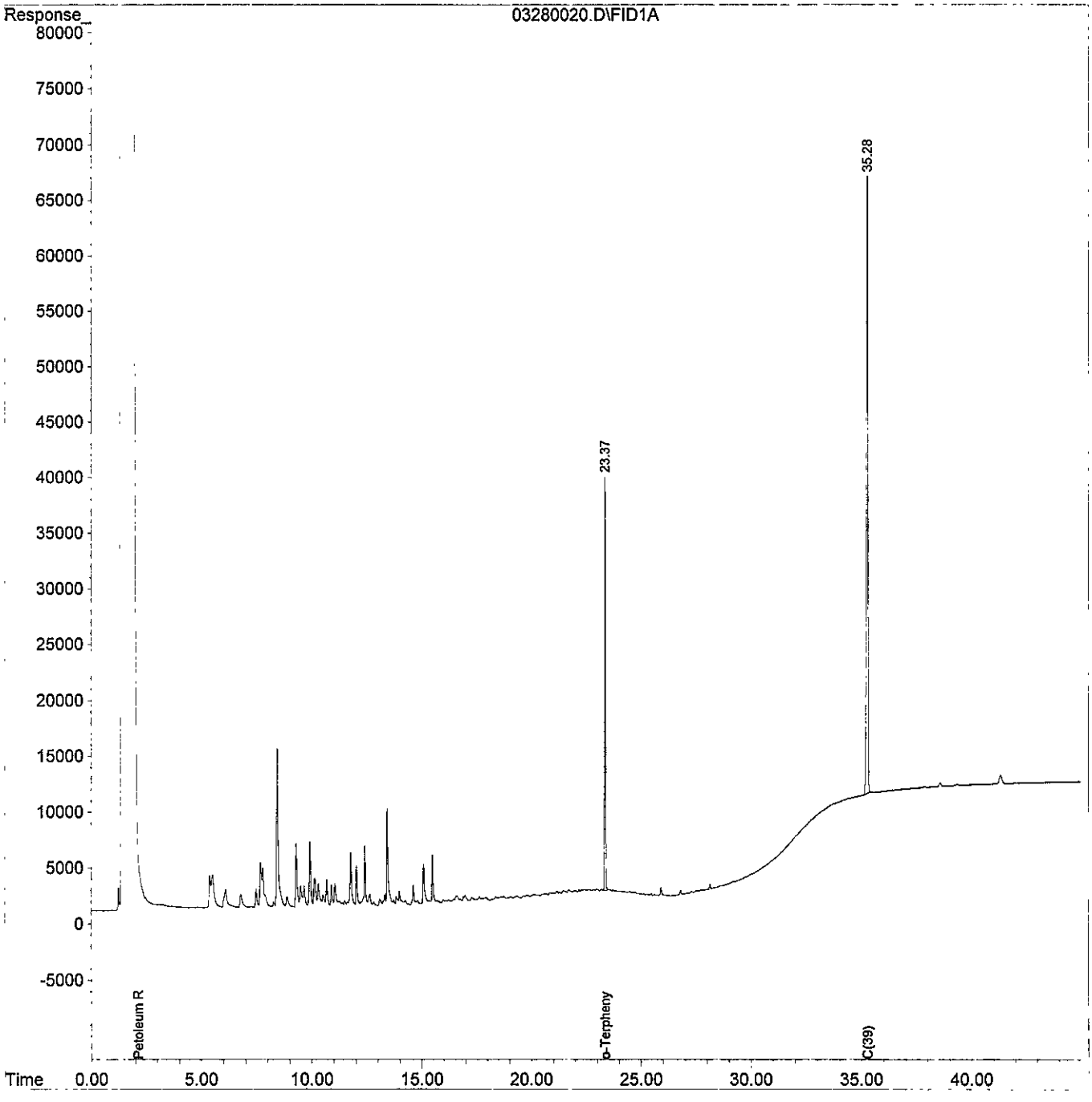
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\1\DATA\032800\03280020.D Vial: 10
Acq On : 29 Mar 2000 7:27 am Operator: MT
Sample : AB89502 Inst : DUAL FID
Misc : 23975 1000ml Multiplr: 1.00
IntFile : PRO0914.e
Quant Time: Mar 29 10:07 2000 Quant Results File: PRO0112.RES

Quant Method : C:\HPCHEM\1\METHODS\PRO0112.M (Chemstation Integrator)
Title : FL PRO
Last Update : Thu Mar 09 14:46:05 2000
Response via : Multiple Level Calibration
DataAcq Meth : PRO0112.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\032800\03280041.D Vial: 10
Acq On : 30 Mar 2000 3:01 am Operator: MT
Sample : AB89502 Inst : DUAL FID
Misc : 23975 1000ml Multiplr: 1.00
IntFile : PRO0914.e
Quant Time: Mar 30 10:50 2000 Quant Results File: PRO0112.RES

Quant Method : C:\HPCHEM\1\METHODS\PRO0112.M (Chemstation Integrator)
Title : FL PRO
Last Update : Thu Mar 09 14:46:05 2000
Response via : Initial Calibration
DataAcq Meth : PRO0112.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) SC o-Terphenyl	23.35	1037497	24.861 ug/mlm
Spiked Amount 50.000	Recovery =		49.72% x MT
3) SC C(39)	35.26	2645121	68.838 ug/mlm
Spiked Amount 150.000	Recovery =		45.89% ✓MT
Target Compounds			
1) HM Petoleum Range Organics	2.15	54968400	554.677 ug/ml ≤ <DL MT

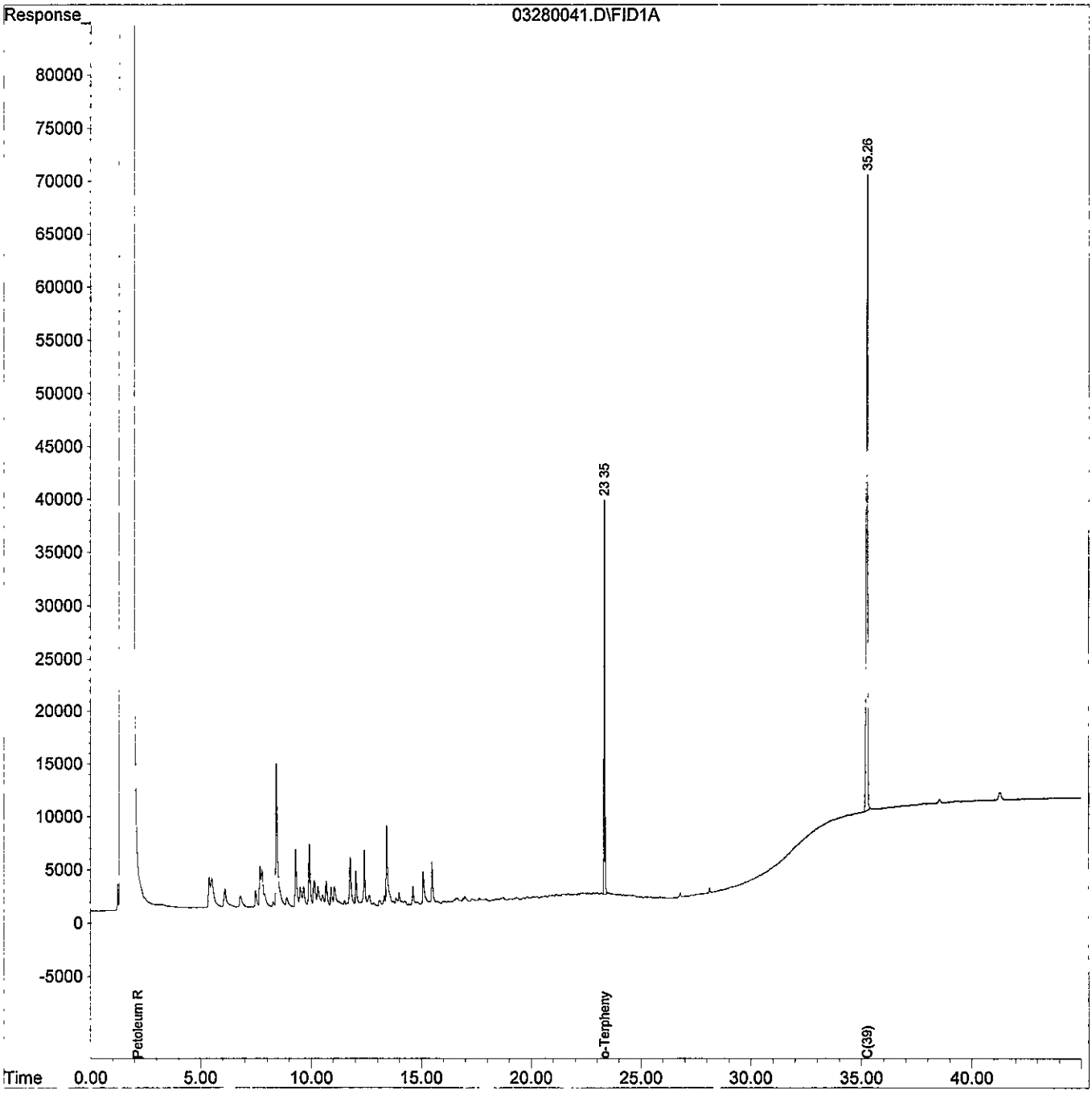
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\1\DATA\032800\03280041.D Vial: 10
Acq On : 30 Mar 2000 3:01 am Operator: MT
Sample : AB89502 Inst : DUAL FID
Misc : 23975 1000ml Multiplr: 1.00
IntFile : PRO0914.e
Quant Time: Mar 30 10:50 2000 Quant Results File: PRO0112.RES

Quant Method : C:\HPCHEM\1\METHODS\PRO0112.M (Chemstation Integrator)
Title : FL PRO
Last Update : Thu Mar 09 14:46:05 2000
Response via : Multiple Level Calibration
DataAcq Meth : PRO0112.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\032800\03280021.D Vial: 11
Acq On : 29 Mar 2000 8:21 am Operator: MT
Sample : AB89503 Inst : DUAL FID
Misc : 23975 1000ml Multiplr: 1.00
IntFile : PRO0914.e
Quant Time: Mar 29 10:08 2000 Quant Results File: PRO0112.RES

Quant Method : C:\HPCHEM\1\METHODS\PRO0112.M (Chemstation Integrator)
Title : FL PRO
Last Update : Thu Mar 09 14:46:05 2000
Response via : Initial Calibration
DataAcq Meth : PRO0112.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) SC o-Terphenyl	23.36	1269954	30.432 ug/mlm
Spiked Amount 50.000	Recovery =		60.86% x MT
3) SC C(39)	35.27	1984971	51.658 ug/mlm
Spiked Amount 150.000	Recovery =		34.44% x MT
Target Compounds			
1) HM Petoleum Range Organics	2.15	67563519	895.025 ug/ml =

<DL
MT

RR

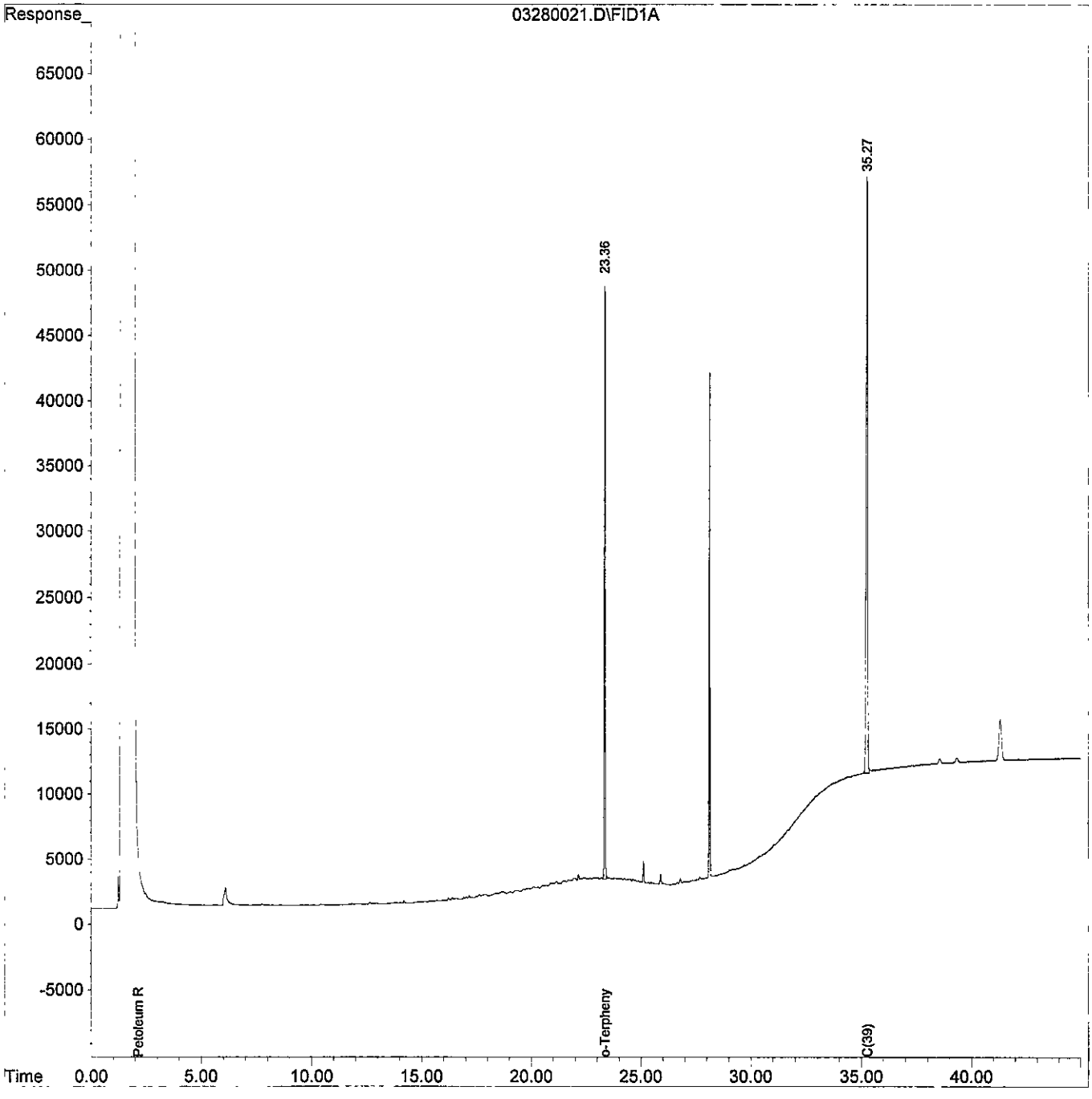
CCV failed

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

Data File : C:\HPCHEM\1\DATA\032800\03280021.D Vial: 11
Acq On : 29 Mar 2000 8:21 am Operator: MT
Sample : AB89503 Inst : DUAL FID
Misc : 23975 1000ml Multiplr: 1.00
IntFile : PRO0914.e
Quant Time: Mar 29 10:08 2000 Quant Results File: PRO0112.RES

Quant Method : C:\HPCHEM\1\METHODS\PRO0112.M (Chemstation Integrator)
Title : FL PRO
Last Update : Thu Mar 09 14:46:05 2000
Response via : Multiple Level Calibration
DataAcq Meth : PRO0112.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\032800\03280042.D Vial: 11
Acq On : 30 Mar 2000 3:55 am Operator: MT
Sample : AB89503 Inst : DUAL FID
Misc : 23975 1000ml Multiplr: 1.00
IntFile : PRO0914.e
Quant Time: Mar 30 10:50 2000 Quant Results File: PRO0112.RES

Quant Method : C:\HPCHEM\1\METHODS\PRO0112.M (Chemstation Integrator)
Title : FL PRO
Last Update : Thu Mar 09 14:46:05 2000
Response via : Initial Calibration
DataAcq Meth : PRO0112.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) SC o-Terphenyl	23.35	1263721	30.282 ug/mlm
Spiked Amount 50.000	Recovery =		60.56% x MT
3) SC C(39)	35.25	2031874	52.879 ug/mlm
Spiked Amount 150.000	Recovery =		35.25% x MT
Target Compounds			
1) HM Petoleum Range Organics	2.15	55808932	577.390 ug/ml <

<DL
MT

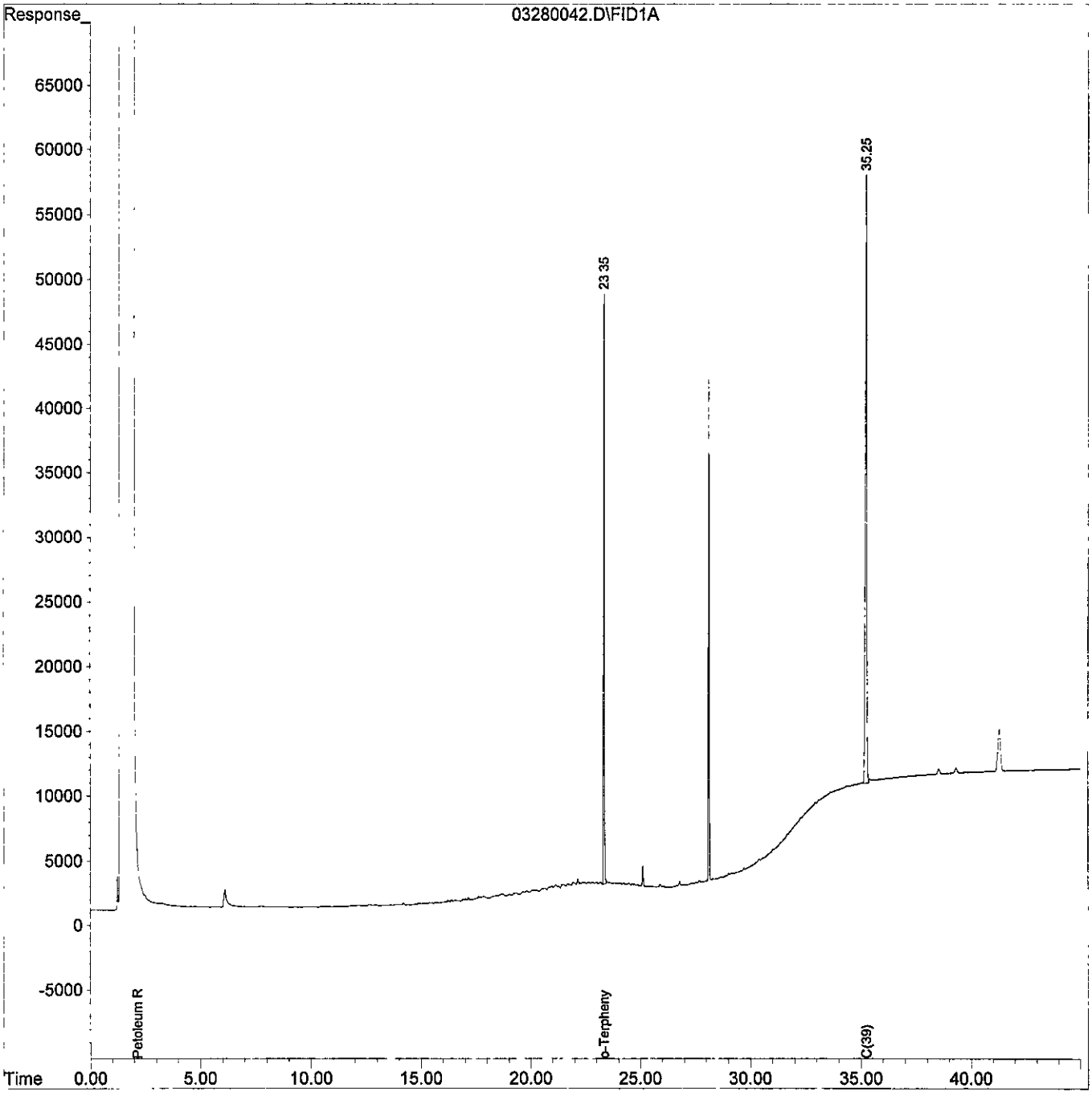
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\1\DATA\032800\03280042.D Vial: 11
Acq On : 30 Mar 2000 3:55 am Operator: MT
Sample : AB89503 Inst : DUAL FID
Misc : 23975 1000ml Multiplr: 1.00
IntFile : PRO0914.e
Quant Time: Mar 30 10:50 2000 Quant Results File: PRO0112.RES

Quant Method : C:\HPCHEM\1\METHODS\PRO0112.M (Chemstation Integrator)
Title : FL PRO
Last Update : Thu Mar 09 14:46:05 2000
Response via : Multiple Level Calibration
DataAcq Meth : PRO0112.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\032800\03280022.D Vial: 12
Acq On : 29 Mar 2000 9:15 am Operator: MT
Sample : AB89504 Inst : DUAL FID
Misc : 23975 1000ml Multiplr: 1.00
IntFile : PRO0914.e
Quant Time: Mar 29 10:09 2000 Quant Results File: PRO0112.RES

Quant Method : C:\HPCHEM\1\METHODS\PRO0112.M (Chemstation Integrator)
Title : FL PRO
Last Update : Thu Mar 09 14:46:05 2000
Response via : Initial Calibration
DataAcq Meth : PRO0112.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) SC o-Terphenyl	23.37	876247	20.997 ug/mlm
Spiked Amount 50.000	Recovery =		41.99% x MT
3) SC C(39)	35.27	1786094	46.482 ug/mlm
Spiked Amount 150.000	Recovery =		30.99% x MT
Target Compounds			
1) HM Petoleum Range Organics	2.15	59869161	687.107 ug/ml =

<DL
MT

NR
CCV failed

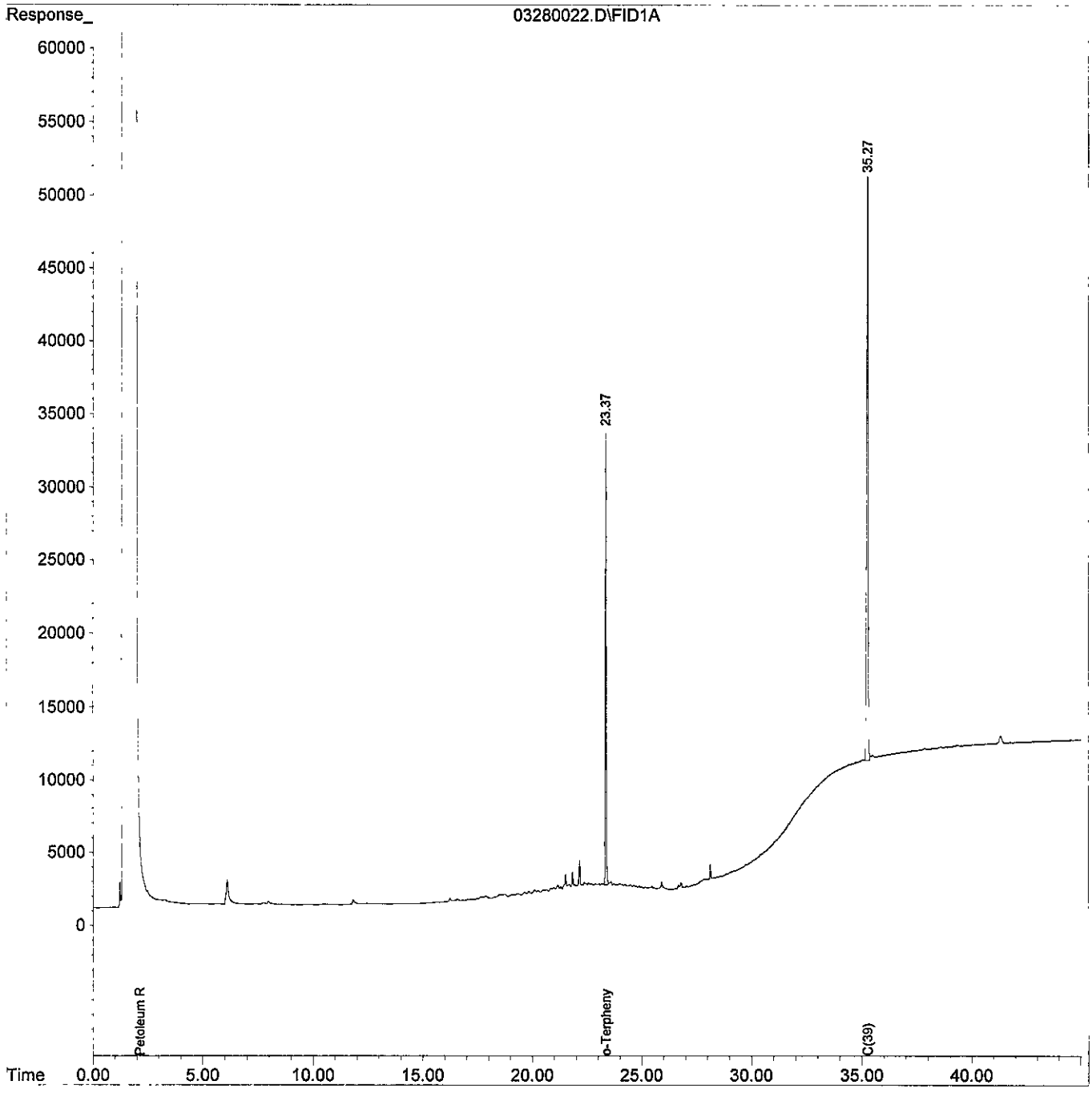
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\1\DATA\032800\03280022.D Vial: 12
Acq On : 29 Mar 2000 9:15 am Operator: MT
Sample : AB89504 Inst : DUAL FID
Misc : 23975 1000ml Multiplr: 1.00
IntFile : PRO0914.e
Quant Time: Mar 29 10:09 2000 Quant Results File: PRO0112.RES

Quant Method : C:\HPCHEM\1\METHODS\PRO0112.M (Chemstation Integrator)
Title : FL PRO
Last Update : Thu Mar 09 14:46:05 2000
Response via : Multiple Level Calibration
DataAcq Meth : PRO0112.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\032800\03280043.D Vial: 12
Acq On : 30 Mar 2000 4:48 am Operator: MT
Sample : AB89504 Inst : DUAL FID
Misc : 23975 1000ml Multiplr: 1.00
IntFile : PRO0914.e
Quant Time: Mar 30 10:51 2000 Quant Results File: PRO0112.RES

Quant Method : C:\HPCHEM\1\METHODS\PRO0112.M (Chemstation Integrator)
Title : FL PRO
Last Update : Thu Mar 09 14:46:05 2000
Response via : Initial Calibration
DataAcq Meth : PRO0112.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) SC o-Terphenyl	23.35	884387	21.192 ug/mlm
Spiked Amount 50.000	Recovery =		42.38% x MT
3) SC C(39)	35.25	1820770	47.385 ug/mlm
Spiked Amount 150.000	Recovery =		31.59% x MT
Target Compounds			
1) HM Petoleum Range Organics	2.15	49487570	406.573 ug/ml

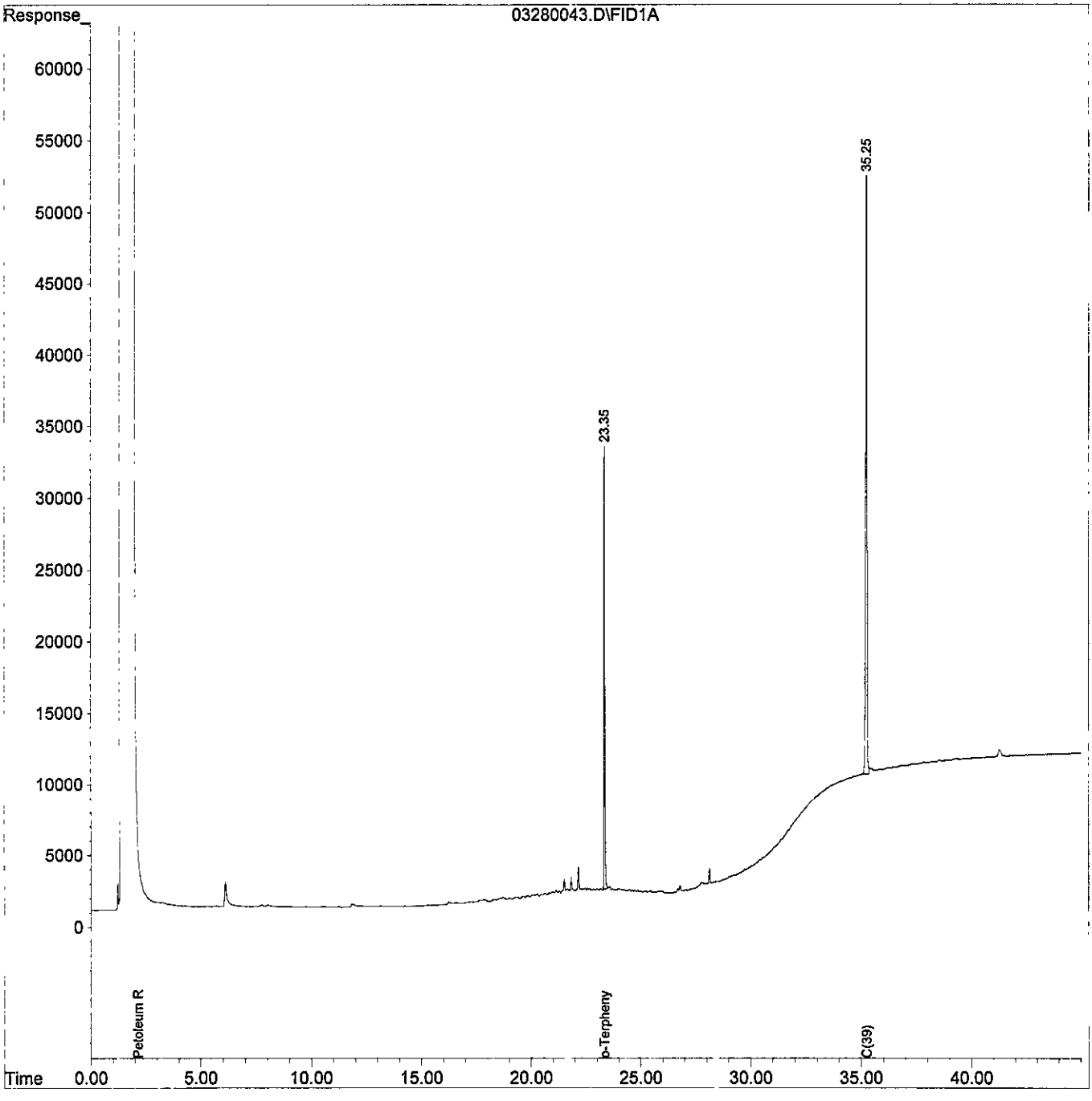
<DL
MT

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

Data File : C:\HPCHEM\1\DATA\032800\03280043.D Vial: 12
Acq On : 30 Mar 2000 4:48 am Operator: MT
Sample : AB89504 Inst : DUAL FID
Misc : 23975 1000ml Multiplr: 1.00
IntFile : PRO0914.e
Quant Time: Mar 30 10:51 2000 Quant Results File: PRO0112.RES

Quant Method : C:\HPCHEM\1\METHODS\PRO0112.M (Chemstation Integrator)
Title : FL PRO
Last Update : Thu Mar 09 14:46:05 2000
Response via : Multiple Level Calibration
DataAcq Meth : PRO0112.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\032800\03280025.D Vial: 15
Acq On : 29 Mar 2000 12:42 pm Operator: MT
Sample : AB89505 Inst : DUAL FID
Misc : 23975 1000ml Multiplr: 1.00
IntFile : PRO0914.e
Quant Time: Mar 29 15:23 2000 Quant Results File: PRO0112.RES

Quant Method : C:\HPCHEM\1\METHODS\PRO0112.M (Chemstation Integrator)
Title : FL PRO
Last Update : Thu Mar 09 14:46:05 2000
Response via : Initial Calibration
DataAcq Meth : PRO0112.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) SC o-Terphenyl	23.36	1001137	23.990 ug/mlm
Spiked Amount 50.000	Recovery =		47.98% X MT
3) SC C(39)	35.26	1305197	33.967 ug/mlm
Spiked Amount 150.000	Recovery =		22.64% X MT
Target Compounds			
1) HM Petoleum Range Organics	2.15	55248982	562.259 ug/ml ≈

<DL
MT

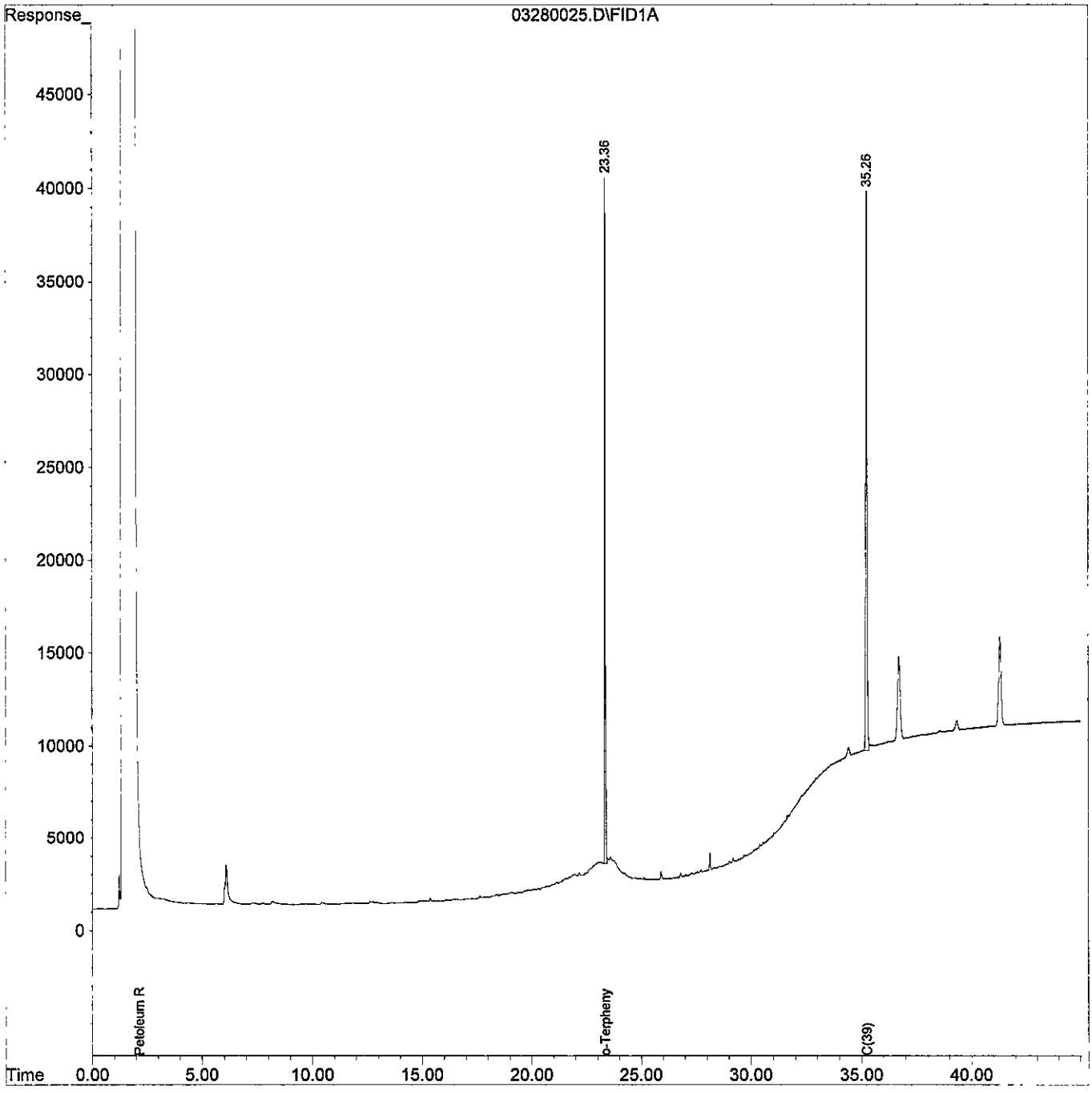
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\1\DATA\032800\03280025.D Vial: 15
Acq On : 29 Mar 2000 12:42 pm Operator: MT
Sample : AB89505 Inst : DUAL FID
Misc : 23975 1000ml Multiplr: 1.00
IntFile : PRO0914.e
Quant Time: Mar 29 15:23 2000 Quant Results File: PRO0112.RES

Quant Method : C:\HPCHEM\1\METHODS\PRO0112.M (Chemstation Integrator)
Title : FL PRO
Last Update : Thu Mar 09 14:46:05 2000
Response via : Multiple Level Calibration
DataAcq Meth : PRO0112.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\032800\03280026.D Vial: 16
Acq On : 29 Mar 2000 1:36 pm Operator: MT
Sample : AB89506 Inst : DUAL FID
Misc : 23975 1000ml Multiplr: 1.00
IntFile : PRO0914.e
Quant Time: Mar 29 15:23 2000 Quant Results File: PRO0112.RES

Quant Method : C:\HPCHEM\1\METHODS\PRO0112.M (Chemstation Integrator)
Title : FL PRO
Last Update : Thu Mar 09 14:46:05 2000
Response via : Initial Calibration
DataAcq Meth : PRO0112.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) SC o-Terphenyl	23.36	1002015	24.011 ug/mlm
Spiked Amount 50.000	Recovery =		48.02% ✓MT
3) SC C(39)	35.29	3794738	98.757 ug/mlm
Spiked Amount 150.000	Recovery =		65.84% ✓MT
Target Compounds			
1) HM Petoleum Range Organics	2.15	47571175	354.788 ug/ml =

<DL
MT

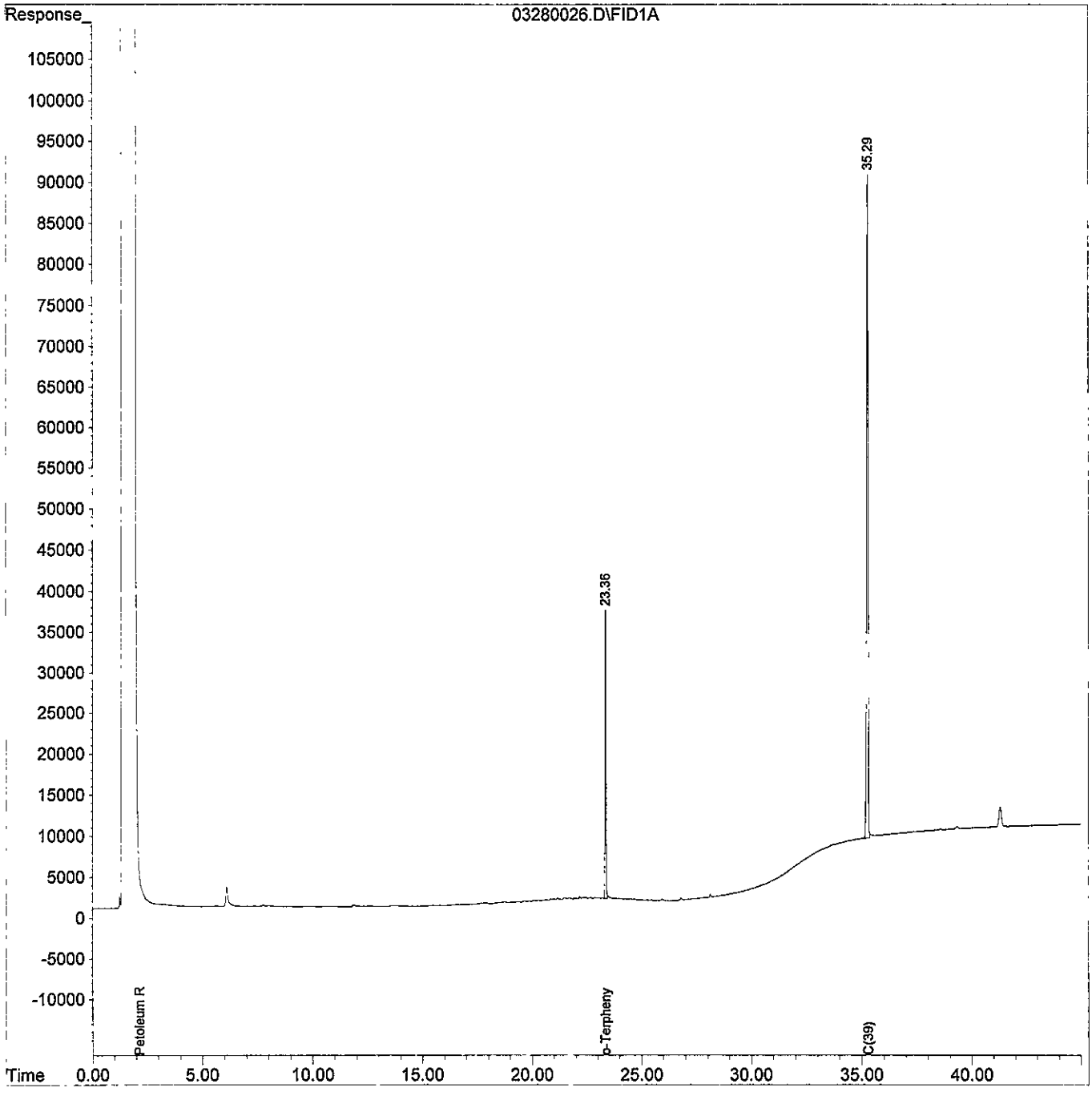
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\1\DATA\032800\03280026.D Vial: 16
Acq On : 29 Mar 2000 1:36 pm Operator: MT
Sample : AB89506 Inst : DUAL FID
Misc : 23975 1000ml Multiplr: 1.00
IntFile : PRO0914.e
Quant Time: Mar 29 15:23 2000 Quant Results File: PRO0112.RES

Quant Method : C:\HPCHEM\1\METHODS\PRO0112.M (Chemstation Integrator)
Title : FL PRO
Last Update : Thu Mar 09 14:46:05 2000
Response via : Multiple Level Calibration
DataAcq Meth : PRO0112.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\032800\03280027.D Vial: 17
Acq On : 29 Mar 2000 2:30 pm Operator: MT
Sample : AB89507 Inst : DUAL FID
Misc : 23975 1000ml Multiplr: 1.00
IntFile : PRO0914.e
Quant Time: Mar 29 15:24 2000 Quant Results File: PRO0112.RES

Quant Method : C:\HPCHEM\1\METHODS\PRO0112.M (Chemstation Integrator)
Title : FL PRO
Last Update : Thu Mar 09 14:46:05 2000
Response via : Initial Calibration
DataAcq Meth : PRO0112.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) SC o-Terphenyl	23.36	885621	21.222 ug/mlm
Spiked Amount 50.000	Recovery =		42.44% ✗ MT
3) SC C(39)	35.27	2819217	73.369 ug/mlm
Spiked Amount 150.000	Recovery =		48.91% ✓ MT
Target Compounds			
1) HM Petoleum Range Organics	2.15	163248417	3480.645 ug/ml / 1000ml =

3.5 ppm
MT

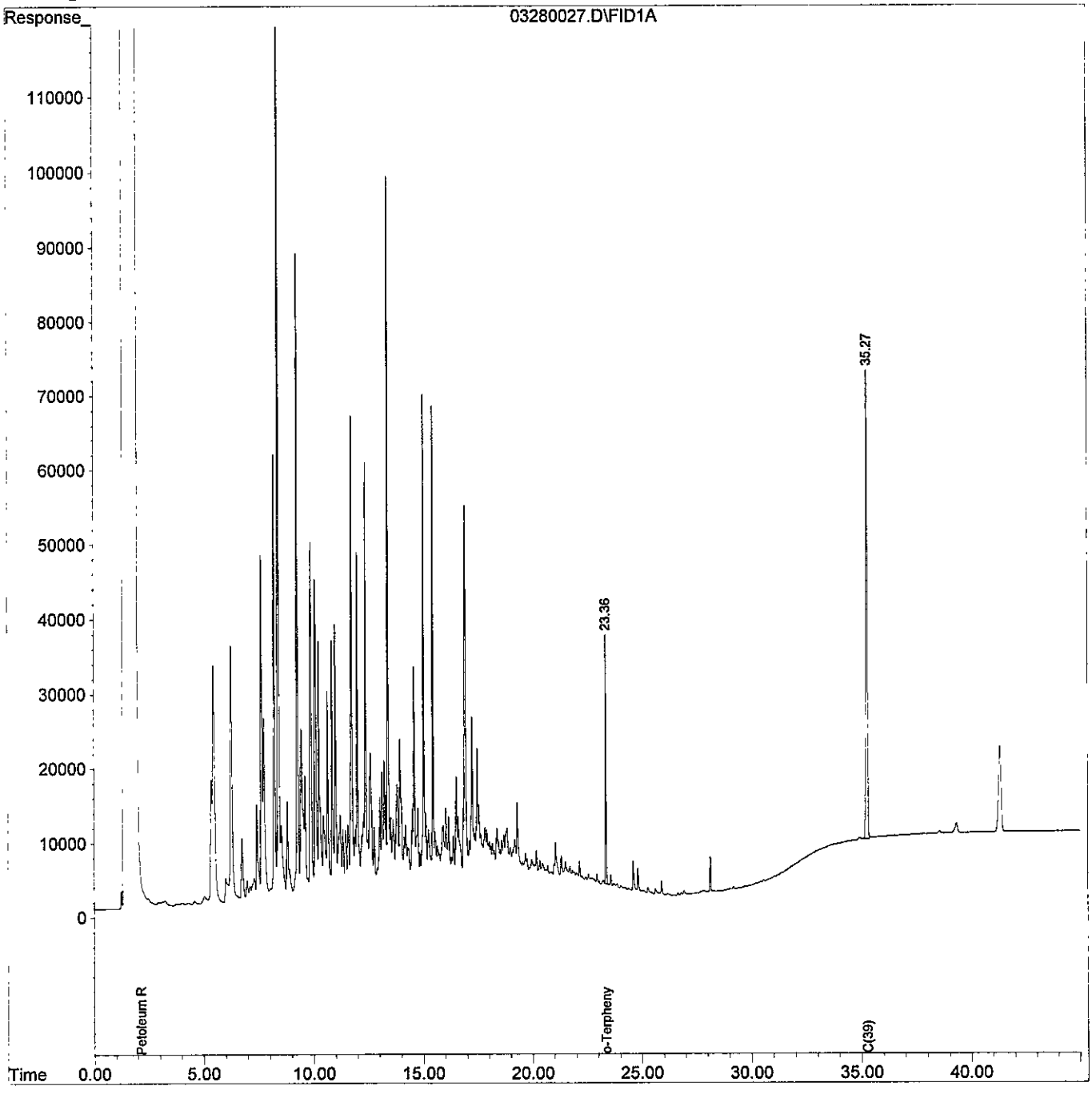
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\1\DATA\032800\03280027.D Vial: 17
Acq On : 29 Mar 2000 2:30 pm Operator: MT
Sample : AB89507 Inst : DUAL FID
Misc : 23975 1000ml Multiplr: 1.00
IntFile : PRO0914.e
Quant Time: Mar 29 15:24 2000 Quant Results File: PRO0112.RES

Quant Method : C:\HPCHEM\1\METHODS\PRO0112.M (Chemstation Integrator)
Title : FL PRO
Last Update : Thu Mar 09 14:46:05 2000
Response via : Multiple Level Calibration
DataAcq Meth : PRO0112.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\032800\03280028.D Vial: 18
Acq On : 29 Mar 2000 3:23 pm Operator: MT
Sample : AB89508 Inst : DUAL FID
Misc : 23975 1000ml Multiplr: 1.00
IntFile : PRO0914.e
Quant Time: Mar 29 16:19 2000 Quant Results File: PRO0112.RES

Quant Method : C:\HPCHEM\1\METHODS\PRO0112.M (Chemstation Integrator)
Title : FL PRO
Last Update : Thu Mar 09 14:46:05 2000
Response via : Initial Calibration
DataAcq Meth : PRO0112.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) SC o-Terphenyl	23.36	839471	20.116 ug/mlm
Spiked Amount 50.000	Recovery =		40.23% x MT
3) SC C(39)	35.27	2816481	73.298 ug/mlm
Spiked Amount 150.000	Recovery =		48.87% ✓MT
Target Compounds			
1) HM Petoleum Range Organics	2.15	63179122	776.549 ug/ml =

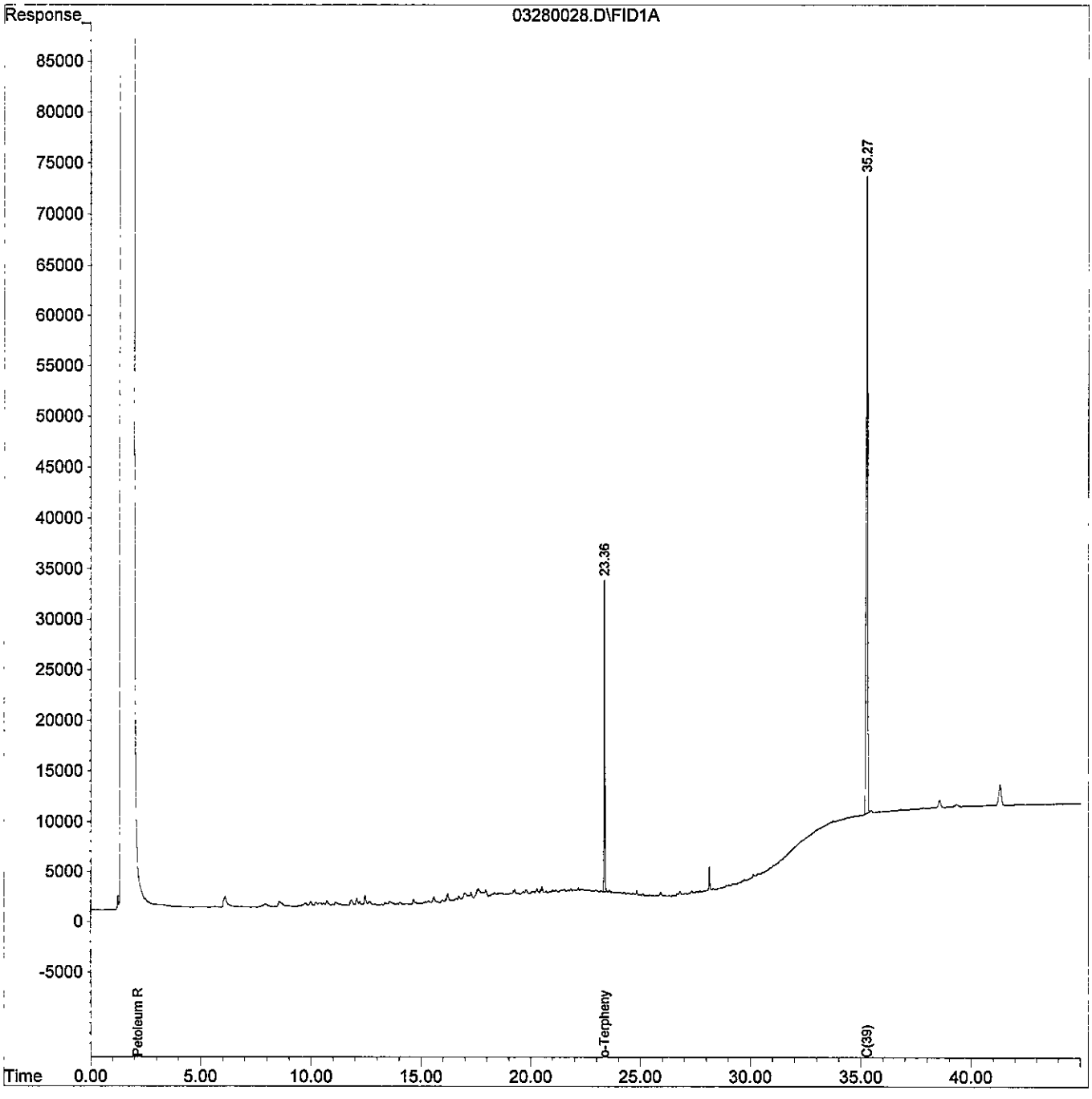
<DL
MT

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

Data File : C:\HPCHEM\1\DATA\032800\03280028.D Vial: 18
Acq On : 29 Mar 2000 3:23 pm Operator: MT
Sample : AB89508 Inst : DUAL FID
Misc : 23975 1000ml Multiplr: 1.00
IntFile : PRO0914.e
Quant Time: Mar 29 16:19 2000 Quant Results File: PRO0112.RES

Quant Method : C:\HPCHEM\1\METHODS\PRO0112.M (Chemstation Integrator)
Title : FL PRO
Last Update : Thu Mar 09 14:46:05 2000
Response via : Multiple Level Calibration
DataAcq Meth : PRO0112.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\032800\03280029.D Vial: 19
Acq On : 29 Mar 2000 4:17 pm Operator: MT
Sample : AB89509 Inst : DUAL FID
Misc : 23975 1000ml Multiplr: 1.00
IntFile : PRO0914.e
Quant Time: Mar 29 17:46 2000 Quant Results File: PRO0112.RES

Quant Method : C:\HPCHEM\1\METHODS\PRO0112.M (Chemstation Integrator)
Title : FL PRO
Last Update : Thu Mar 09 14:46:05 2000
Response via : Initial Calibration
DataAcq Meth : PRO0112.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) SC o-Terphenyl	23.36	1097858	26.308 ug/mlm
Spiked Amount 50.000	Recovery =		52.62% X MT
3) SC C(39)	35.25	1079093	28.083 ug/mlm
Spiked Amount 150.000	Recovery =		18.72% X MT
Target Compounds			
1) HM Petoleum Range Organics	2.15	55195809	560.822 ug/ml =

<DL
MT

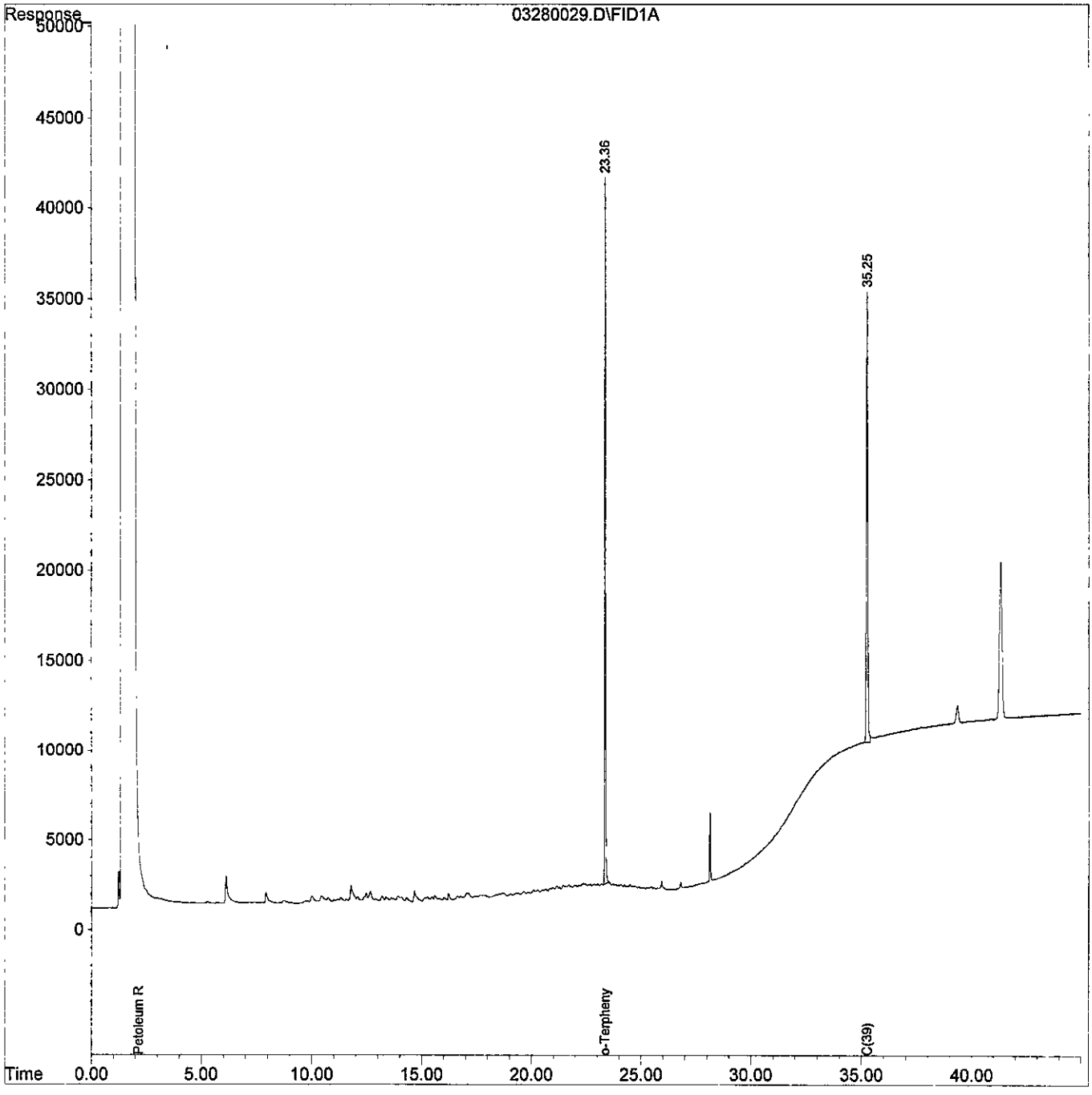
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\1\DATA\032800\03280029.D Vial: 19
Acq On : 29 Mar 2000 4:17 pm Operator: MT
Sample : AB89509 Inst : DUAL FID
Misc : 23975 1000ml Multiplr: 1.00
IntFile : PRO0914.e
Quant Time: Mar 29 17:46 2000 Quant Results File: PRO0112.RES

Quant Method : C:\HPCHEM\1\METHODS\PRO0112.M (Chemstation Integrator)
Title : FL PRO
Last Update : Thu Mar 09 14:46:05 2000
Response via : Multiple Level Calibration
DataAcq Meth : PRO0112.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\032800\03280030.D Vial: 20
Acq On : 29 Mar 2000 5:11 pm Operator: MT
Sample : AB89510 Inst : DUAL FID
Misc : 23975 1000ml Multiplr: 1.00
IntFile : PRO0914.e
Quant Time: Mar 29 18:01 2000 Quant Results File: PRO0112.RES

Quant Method : C:\HPCHEM\1\METHODS\PRO0112.M (Chemstation Integrator)
Title : FL PRO
Last Update : Thu Mar 09 14:46:05 2000
Response via : Initial Calibration
DataAcq Meth : PRO0112.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) SC o-Terphenyl	23.36	887106	21.258 ug/mlm
Spiked Amount 50.000	Recovery =		42.52% x MT
3) SC C(39)	35.26	2281442	59.374 ug/mlm
Spiked Amount 150.000	Recovery =		39.58% x MT
Target Compounds			
1) HM Petoleum Range Organics	2.15	586258945	14911.332 ug/ml

over cal

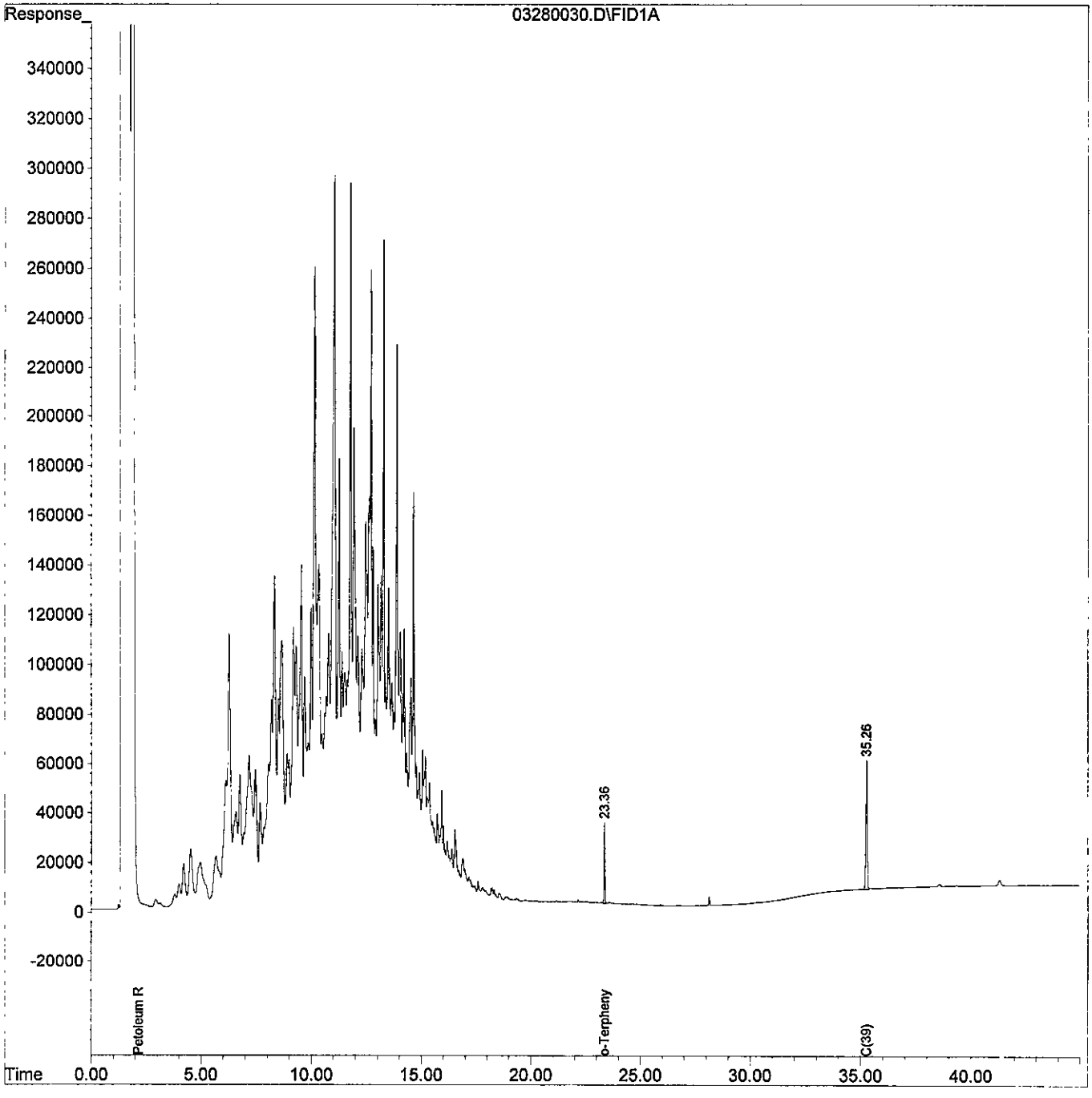
RR 5X

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

Data File : C:\HPCHEM\1\DATA\032800\03280030.D Vial: 20
Acq On : 29 Mar 2000 5:11 pm Operator: MT
Sample : AB89510 Inst : DUAL FID
Misc : 23975 1000ml Multiplr: 1.00
IntFile : PRO0914.e
Quant Time: Mar 29 18:01 2000 Quant Results File: PRO0112.RES

Quant Method : C:\HPCHEM\1\METHODS\PRO0112.M (Chemstation Integrator)
Title : FL PRO
Last Update : Thu Mar 09 14:46:05 2000
Response via : Multiple Level Calibration
DataAcq Meth : PRO0112.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\032800\03280044.D Vial: 24
Acq On : 30 Mar 2000 5:42 am Operator: MT
Sample : AB89510 5X Inst : DUAL FID
Misc : 23975 1000ml Multiplr: 1.00
IntFile : PRO0914.e
Quant Time: Mar 30 10:51 2000 Quant Results File: PRO0112.RES

Quant Method : C:\HPCHEM\1\METHODS\PRO0112.M (Chemstation Integrator)
Title : FL PRO
Last Update : Thu Mar 09 14:46:05 2000
Response via : Initial Calibration
DataAcq Meth : PRO0112.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) SC o-Terphenyl	23.36	172959	4.145 ug/mlm
Spiked Amount 50.000	Recovery =		8.29% x5= 41 x MT
3) SC C(39)	35.23	372217	9.687 ug/mlm
Spiked Amount 150.000	Recovery =		6.46%x5 = 32 x MT
Target Compounds			
1) HM Petoleum Range Organics	2.15	143790696	2954.854 ug/ml /1000ml =

2.955 x 5 =

15ppm
MT

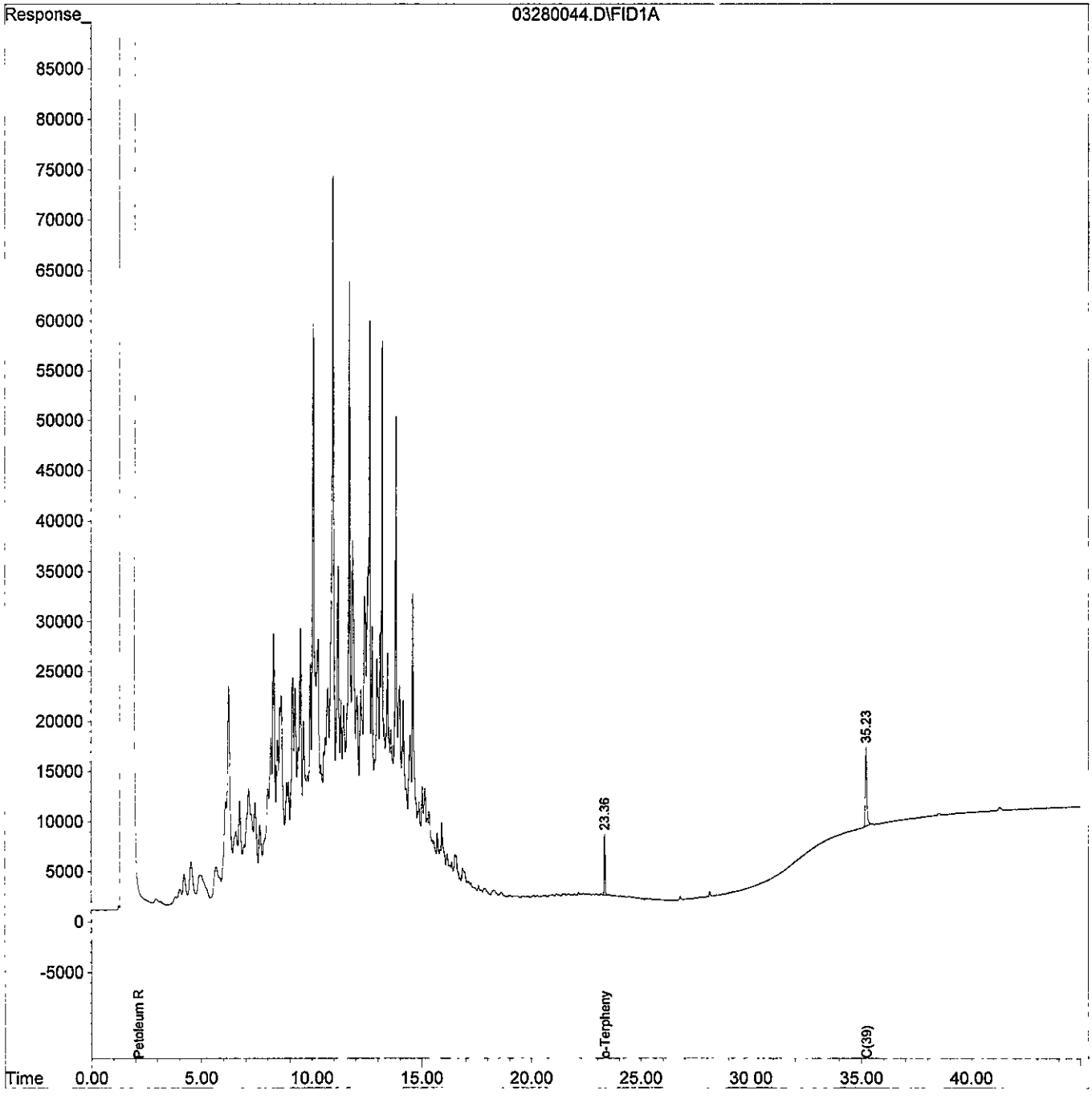
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\1\DATA\032800\03280044.D Vial: 24
Acq On : 30 Mar 2000 5:42 am Operator: MT
Sample : AB89510 5X Inst : DUAL FID
Misc : 23975 1000ml Multiplr: 1.00
IntFile : PRO0914.e
Quant Time: Mar 30 10:51 2000 Quant Results File: PRO0112.RES

Quant Method : C:\HPCHEM\1\METHODS\PRO0112.M (Chemstation Integrator)
Title : FL PRO
Last Update : Thu Mar 09 14:46:05 2000
Response via : Multiple Level Calibration
DataAcq Meth : PRO0112.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\032800\03280031.D Vial: 21
Acq On : 29 Mar 2000 6:04 pm Operator: MT
Sample : AB89511 Inst : DUAL FID
Misc : 23975 1000ml Multiplr: 1.00
IntFile : PRO0914.e
Quant Time: Mar 30 10:40 2000 Quant Results File: PRO0112.RES

Quant Method : C:\HPCHEM\1\METHODS\PRO0112.M (Chemstation Integrator)
Title : FL PRO
Last Update : Thu Mar 09 14:46:05 2000
Response via : Initial Calibration
DataAcq Meth : PRO0112.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) SC o-Terphenyl	23.36	1046938	25.088 ug/mlm
Spiked Amount 50.000	Recovery =		50.18% x MT
3) SC C(39)	35.24	957911	24.929 ug/mlm
Spiked Amount 150.000	Recovery =		16.62% x MT
Target Compounds			
1) HM Petoleum Range Organics	2.15	54874259	552.133 ug/ml <

<DL
MT

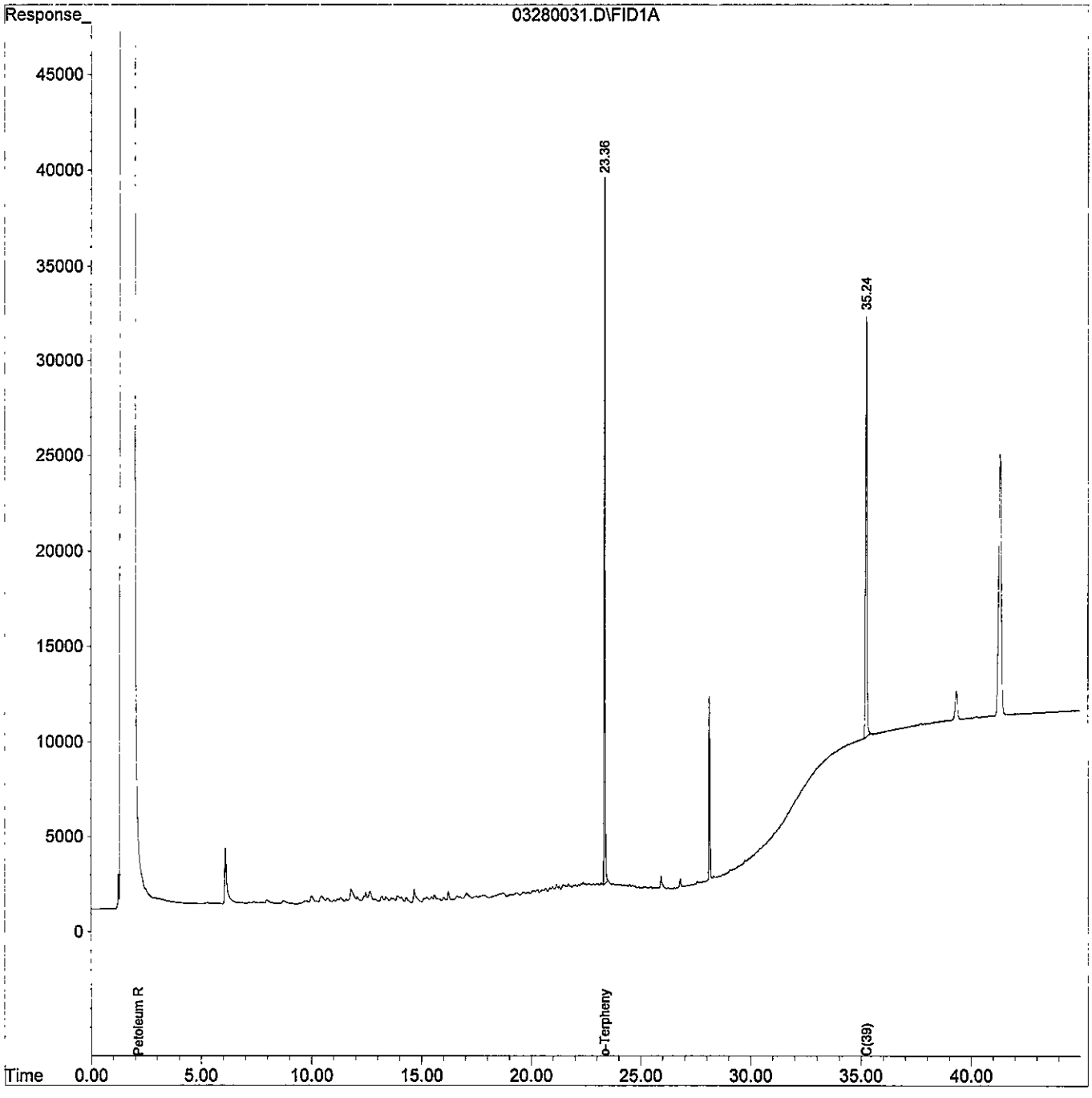
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\1\DATA\032800\03280031.D Vial: 21
Acq On : 29 Mar 2000 6:04 pm Operator: MT
Sample : AB89511 Inst : DUAL FID
Misc : 23975 1000ml Multiplr: 1.00
IntFile : PRO0914.e
Quant Time: Mar 30 10:40 2000 Quant Results File: PRO0112.RES

Quant Method : C:\HPCHEM\1\METHODS\PRO0112.M (Chemstation Integrator)
Title : FL PRO
Last Update : Thu Mar 09 14:46:05 2000
Response via : Multiple Level Calibration
DataAcq Meth : PRO0112.M

Volume Inj. :
Signal Phase :
Signal Info :



TEST AMERICA INC.
SPECIALIZED ASSAYS ENVIRONMENTAL
2960 Foster Creighton Drive
Nashville, Tennessee 37204

ANALYTICAL REPORT

** Original report and a copy of the chain of custody will follow by mail.

ACCURA ANALYTICAL 2656

6017 FINANCIAL DR.
NORCROSS, GA 30071

Lab Number: 00-A38718

Sample ID: AB89497

Date Collected: 3/20/00

Project: 23975

Time Collected: 13:31

Project Name:

Date Received: 3/23/00

Sampler:

Time Received: 9:00

State Certification: 387

Sample Type: Water

Site I.D.:

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Date	Time	Analyst	Method	Batch
ORGANIC PARAMETERS										
Naphthalene	ND	ug/l	1.0	1.0	1	3/26/00	22:03	Henderson	8310	7429
Acenapthene	ND	ug/l	1.0	1.0	1	3/26/00	22:03	Henderson	8310	7429
Anthracene	ND	ug/l	0.7	0.7	1	3/26/00	22:03	Henderson	8310	7429
Fluoranthene	ND	ug/l	0.2	0.2	1	3/26/00	22:03	Henderson	8310	7429
Fluorene	ND	ug/l	0.2	0.2	1	3/26/00	22:03	Henderson	8310	7429
Pyrene	ND	ug/l	0.3	0.3	1	3/26/00	22:03	Henderson	8310	7429
Benzo(a)anthracene	ND	ug/l	0.1	0.1	1	3/26/00	22:03	Henderson	8310	7429
Benzo(a)pyrene	ND	ug/l	0.1	0.1	1	3/26/00	22:03	Henderson	8310	7429
Benzo(b)fluoranthene	ND	ug/l	0.2	0.2	1	3/26/00	22:03	Henderson	8310	7429
Benzo(k)fluoranthene	ND	ug/l	0.2	0.2	1	3/26/00	22:03	Henderson	8310	7429
Chrysene	ND	ug/l	0.2	0.2	1	3/26/00	22:03	Henderson	8310	7429
Dibenzo(a,h)anthracene	ND	ug/l	0.3	0.3	1	3/26/00	22:03	Henderson	8310	7429
Indeno(1,2,3-cd)pyrene	ND	ug/l	0.4	0.4	1	3/26/00	22:03	Henderson	8310	7429
Acenaphthylene	ND	ug/l	2.1	2.0	1	3/26/00	22:03	Henderson	8310	7429
Benzo(g,h,i)perylene	ND	ug/l	0.8	0.8	1	3/26/00	22:03	Henderson	8310	7429
Phenanthrene	ND	ug/l	0.7	0.6	1	3/26/00	22:03	Henderson	8310	7429

ND = Not detected at the report limit.

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Analyst	Method
PAH's	970. ml	1.00 ml	3/24/00	D.Yeager	3510

ST AMERICA INC.
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ANALYTICAL REPORT

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ACCURA ANALYTICAL 2656

6017 FINANCIAL DR.
NORCROSS, GA 30071

Lab Number: 00-A38718

Sample ID: AB89497

Date Collected: 3/20/00

Project: 23975

Time Collected: 13:31

Project Name:

Date Received: 3/23/00

Sampler:

Time Received: 9:00

State Certification: 387

Sample Type: Water

Site I.D.:

Surrogate	% Recovery	Target Range
PAH Surr., p-terphenyl d14	64.	20. - 140.

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Report Approved By: _____ Report Date: 3/29/00

Theodore J. Duello, Ph.D., Technical Serv.
Michael H. Dunn, M.S., Technical Director
Johnny A. Mitchell, Dir. Technical Serv.
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Laboratory Certification Number: 387

TEST AMERICA INC.
SPECIALIZED ASSAYS ENVIRONMENTAL
2960 Foster Creighton Drive
Nashville, Tennessee 37204

ANALYTICAL REPORT

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ACCURA ANALYTICAL 2656

6017 FINANCIAL DR.
NORCROSS, GA 30071

Lab Number: 00-A38719

Sample ID: AB89498

Date Collected: 3/20/00

Project: 23975

Time Collected: 16:05

Project Name:

Date Received: 3/23/00

Sampler:

Time Received: 9:00

State Certification: 387

Sample Type: Water

Site I.D.:

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Date	Time	Analyst	Method	Batch
ORGANIC PARAMETERS										
Naphthalene	ND	ug/l	1.0	1.0	1	3/26/00	22:03	Henderson	8310	7429
Acenapthene	ND	ug/l	1.0	1.0	1	3/26/00	22:03	Henderson	8310	7429
Anthracene	ND	ug/l	0.7	0.7	1	3/26/00	22:03	Henderson	8310	7429
Fluoranthene	ND	ug/l	0.2	0.2	1	3/26/00	22:03	Henderson	8310	7429
Fluorene	ND	ug/l	0.2	0.2	1	3/26/00	22:03	Henderson	8310	7429
Pyrene	ND	ug/l	0.3	0.3	1	3/26/00	22:03	Henderson	8310	7429
Benzo(a)anthracene	ND	ug/l	0.1	0.1	1	3/26/00	22:03	Henderson	8310	7429
Benzo(a)pyrene	ND	ug/l	0.1	0.1	1	3/26/00	22:03	Henderson	8310	7429
Benzo(b)fluoranthene	ND	ug/l	0.2	0.2	1	3/26/00	22:03	Henderson	8310	7429
Benzo(k)fluoranthene	ND	ug/l	0.2	0.2	1	3/26/00	22:03	Henderson	8310	7429
Chrysene	ND	ug/l	0.2	0.2	1	3/26/00	22:03	Henderson	8310	7429
Dibenzo(a,h)anthracene	ND	ug/l	0.3	0.3	1	3/26/00	22:03	Henderson	8310	7429
Indeno(1,2,3-cd)pyrene	ND	ug/l	0.4	0.4	1	3/26/00	22:03	Henderson	8310	7429
Acenaphthylene	ND	ug/l	2.1	2.0	1	3/26/00	22:03	Henderson	8310	7429
Benzo(g,h,i)perylene	ND	ug/l	0.8	0.8	1	3/26/00	22:03	Henderson	8310	7429
Phenanthrene	ND	ug/l	0.7	0.6	1	3/26/00	22:03	Henderson	8310	7429

ND - Not detected at the report limit.

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Analyst	Method
PAH's	970. ml	1.00 ml	3/24/00	D.Yeager	3510

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ANALYTICAL REPORT

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ACCURA ANALYTICAL 2656

6017 FINANCIAL DR.
NORCROSS, GA 30071

Lab Number: 00-A38719

Sample ID: A869498

Date Collected: 3/20/00

Project: 23975

Time Collected: 16:05

Project Name:

Date Received: 3/23/00

Sampler:

Time Received: 9:00

State Certification: 387

Sample Type: Water

Site I.D.:

Surrogate	% Recovery	Target Range
PAH Surr., p-terphenyl d14	50.	20. - 140.

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Report Approved By: _____ Report Date: 3/29/00

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Kelly S. Ruppel, Technical Serv.
Pamela A. Langford, Technical Serv.

Laboratory Certification Number: 387

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ANALYTICAL REPORT

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ACCURA ANALYTICAL 2656

6017 FINANCIAL DR.
NORCROSS, GA 30071

Lab Number: 00-A38720

Sample ID: AB89499

Date Collected: 3/20/00

Project: 23975

Time Collected: 14:10

Project Name:

Date Received: 3/23/00

Sampler:

Time Received: 9:00

State Certification: 387

Sample Type: Water

Site I.D.:

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Date	Time	Analyst	Method	Batch
ORGANIC PARAMETERS										
Naphthalene	3.7	ug/l	1.0	1.0	1	3/26/00	22:03	Henderson	8310	7429
Acenapthene	ND	ug/l	1.0	1.0	1	3/26/00	22:03	Henderson	8310	7429
Anthracene	ND	ug/l	0.7	0.7	1	3/26/00	22:03	Henderson	8310	7429
Fluoranthene	ND	ug/l	0.2	0.2	1	3/26/00	22:03	Henderson	8310	7429
Fluorene	ND	ug/l	0.2	0.2	1	3/26/00	22:03	Henderson	8310	7429
Pyrene	ND	ug/l	0.3	0.3	1	3/26/00	22:03	Henderson	8310	7429
Benzo(a)anthracene	ND	ug/l	0.1	0.1	1	3/26/00	22:03	Henderson	8310	7429
Benzo(a)pyrene	ND	ug/l	0.1	0.1	1	3/26/00	22:03	Henderson	8310	7429
Benzo(b)fluoranthene	ND	ug/l	0.2	0.2	1	3/26/00	22:03	Henderson	8310	7429
Benzo(k)fluoranthene	ND	ug/l	0.2	0.2	1	3/26/00	22:03	Henderson	8310	7429
Chrysene	ND	ug/l	0.2	0.2	1	3/26/00	22:03	Henderson	8310	7429
Dibenzo(a,h)anthracene	ND	ug/l	0.3	0.3	1	3/26/00	22:03	Henderson	8310	7429
Indeno(1,2,3-cd)pyrene	ND	ug/l	0.4	0.4	1	3/26/00	22:03	Henderson	8310	7429
Acenaphthylene	ND	ug/l	2.1	2.0	1	3/26/00	22:03	Henderson	8310	7429
Benzo(g,h,i)perylene	ND	ug/l	0.8	0.8	1	3/26/00	22:03	Henderson	8310	7429
Phenanthrene	ND	ug/l	0.7	0.6	1	3/26/00	22:03	Henderson	8310	7429

ND = Not detected at the report limit.

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Analyst	Method
PAH's	970. ml	1.00 ml	3/24/00	D.Yeager	3510

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ANALYTICAL REPORT

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ACCURA ANALYTICAL 2656

6017 FINANCIAL DR.
NORCROSS, GA 30071

Lab Number: 00-A38720

Sample ID: AB69499

Date Collected: 3/20/00

Project: 23975

Time Collected: 14:10

Project Name:

Date Received: 3/23/00

Sampler:

Time Received: 9:00

State Certification: 387

Sample Type: Water

Site I.D.:

Surrogate	% Recovery	Target Range
PAH Surr., p-terphenyl d14	46.	20. - 140.

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Report Approved By: _____ Report Date: 3/29/00

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Pamela A. Langford, Technical Serv.

Laboratory Certification Number: 387

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SPECIALIZED ASSAYS ENVIRONMENTAL
2960 Foster Creighton Drive
Nashville, Tennessee 37204

ANALYTICAL REPORT

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ACCURA ANALYTICAL 2656

6017 FINANCIAL DR.
NORCROSS, GA 30071

Lab Number: 00-A38721

Sample ID: AB89500

Date Collected: 3/20/00

Project: 23975

Time Collected: 15:05

Project Name:

Date Received: 3/23/00

Sampler:

Time Received: 9:00

State Certification: 387

Sample Type: Water

Site I.D.:

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Date	Time	Analyst	Method	Batch
ORGANIC PARAMETERS										
Naphthalene	58.2	ug/l	5.2	1.0	5	3/26/00	22:03	Henderson	8310	7429
Acenapthene	ND	ug/l	5.2	1.0	5	3/26/00	22:03	Henderson	8310	7429
Anthracene	ND	ug/l	0.7	0.7	1	3/26/00	22:03	Henderson	8310	7429
Fluoranthene	ND	ug/l	0.2	0.2	1	3/26/00	22:03	Henderson	8310	7429
Fluorene	ND	ug/l	1.1	0.2	5	3/26/00	22:03	Henderson	8310	7429
Pyrene	ND	ug/l	0.3	0.3	1	3/26/00	22:03	Henderson	8310	7429
Benzo(a)anthracene	ND	ug/l	0.1	0.1	1	3/26/00	22:03	Henderson	8310	7429
Benzo(a)pyrene	ND	ug/l	0.1	0.1	1	3/26/00	22:03	Henderson	8310	7429
Benzo(b)fluoranthene	ND	ug/l	0.2	0.2	1	3/26/00	22:03	Henderson	8310	7429
Benzo(k)fluoranthene	ND	ug/l	0.2	0.2	1	3/26/00	22:03	Henderson	8310	7429
Chrysene	ND	ug/l	0.2	0.2	1	3/26/00	22:03	Henderson	8310	7429
Dibenzo(a,h)anthracene	ND	ug/l	0.3	0.3	1	3/26/00	22:03	Henderson	8310	7429
Indeno(1,2,3-cd)pyrene	ND	ug/l	0.4	0.4	1	3/26/00	22:03	Henderson	8310	7429
Acenaphthylene	ND	ug/l	10.3	2.0	5	3/26/00	22:03	Henderson	8310	7429
Benzo(g,h,i)perylene	ND	ug/l	0.8	0.8	1	3/26/00	22:03	Henderson	8310	7429
Phenanthrene	ND	ug/l	3.3	0.6	5	3/26/00	22:03	Henderson	8310	7429

ND - Not detected at the report limit.

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Analyst	Method
PAH's	970. ml	1.00 ml	3/24/00	D.Yeager	3510

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ANALYTICAL REPORT

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ACCURA ANALYTICAL 2656

6017 FINANCIAL DR.
NORCROSS, GA 30071

Lab Number: 00-A38721

Sample ID: AB69500

Date Collected: 3/20/00

Project: 23975

Time Collected: 15:05

Project Name:

Date Received: 3/23/00

Sampler:

Time Received: 9:00

State Certification: 387

Sample Type: Water

Site I.D.:

Surrogate	% Recovery	Target Range
PAH Surr., p-terphenyl d14	38.	20. - 140.

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Report Approved By: _____ Report Date: 3/29/00

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Paul E. Lane, Jr., Lab Director
Glenn L. Norton, Technical Serv.
Kelly S. Ruppel, Technical Serv.
Pamela A. Langford, Technical Serv.

Laboratory Certification Number: 387

'EST AMERICA INC.
;PECIALIZED ASSAYS ENVIRONMENTAL
:960 Foster Creighton Drive
lashville, Tennessee 37204

ANALYTICAL REPORT

** Original report and a copy of the chain of custody will follow by mail.

ACCURA ANALYTICAL 2656

6017 FINANCIAL DR.
NORCROSS, GA 30071

Lab Number: 00-A38722

Sample ID: AB89501

Date Collected: 3/20/00

Project: 23975

Time Collected: 14:25

Project Name:

Date Received: 3/23/00

Sampler:

Time Received: 9:00

State Certification: 387

Sample Type: Water

Site I.D.:

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Date	Time	Analyst	Method	Batch
ORGANIC PARAMETERS										
Naphthalene	ND	ug/l	1.0	1.0	1	3/26/00	22:03	Henderson	8310	7429
Acenapthene	ND	ug/l	1.0	1.0	1	3/26/00	22:03	Henderson	8310	7429
Anthracene	ND	ug/l	0.7	0.7	1	3/26/00	22:03	Henderson	8310	7429
Fluoranthene	ND	ug/l	0.2	0.2	1	3/26/00	22:03	Henderson	8310	7429
Fluorene	ND	ug/l	0.2	0.2	1	3/26/00	22:03	Henderson	8310	7429
Pyrene	ND	ug/l	0.3	0.3	1	3/26/00	22:03	Henderson	8310	7429
Benzo(a)anthracene	ND	ug/l	0.1	0.1	1	3/26/00	22:03	Henderson	8310	7429
Benzo(a)pyrene	ND	ug/l	0.1	0.1	1	3/26/00	22:03	Henderson	8310	7429
Benzo(b)fluoranthene	ND	ug/l	0.2	0.2	1	3/26/00	22:03	Henderson	8310	7429
Benzo(k)fluoranthene	ND	ug/l	0.2	0.2	1	3/26/00	22:03	Henderson	8310	7429
Chrysene	ND	ug/l	0.2	0.2	1	3/26/00	22:03	Henderson	8310	7429
Dibenzo(a,h)anthracene	ND	ug/l	0.3	0.3	1	3/26/00	22:03	Henderson	8310	7429
Indeno(1,2,3-cd)pyrene	ND	ug/l	0.4	0.4	1	3/26/00	22:03	Henderson	8310	7429
Acenaphthylene	ND	ug/l	2.1	2.0	1	3/26/00	22:03	Henderson	8310	7429
Benzo(g,h,i)perylene	ND	ug/l	0.8	0.8	1	3/26/00	22:03	Henderson	8310	7429
Phenanthrene	ND	ug/l	0.7	0.6	1	3/26/00	22:03	Henderson	8310	7429

ND = Not detected at the report limit.

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Analyst	Method
PAH's	970. ml	1.00 ml	3/24/00	D.Yeager	3510

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ANALYTICAL REPORT

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ACCURA ANALYTICAL 2656

6017 FINANCIAL DR.
NORCROSS, GA 30071

Lab Number: 00-A38722

Sample ID: AB89501

Date Collected: 3/20/00

Project: 23975

Time Collected: 14:25

Project Name:

Date Received: 3/23/00

Sampler:

Time Received: 9:00

State Certification: 387

Sample Type: Water

Site I.D.:

Surrogate	% Recovery	Target Range
P&H Surr., p-terphenyl d14	46.	20. - 140.

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Report Approved By: _____ Report Date: 3/29/00

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Laboratory Certification Number: 387

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ANALYTICAL REPORT

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ACCURA ANALYTICAL 2656

6017 FINANCIAL DR.
NORCROSS, GA 30071

Lab Number: 00-A38723

Sample ID: AB89502

Date Collected: 3/20/00

Project: 23975

Time Collected: 16:55

Project Name:

Date Received: 3/23/00

Sampler:

Time Received: 9:00

State Certification: 387

Sample Type: Water

Site I.D.:

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Date	Time	Analyst	Method	Batch
ORGANIC PARAMETERS										
Naphthalene	8.9	ug/l	1.0	1.0	1	3/26/00	22:03	Henderson	8310	7429
Acenapthene	ND	ug/l	1.0	1.0	1	3/26/00	22:03	Henderson	8310	7429
Anthracene	ND	ug/l	0.7	0.7	1	3/26/00	22:03	Henderson	8310	7429
Fluoranthene	ND	ug/l	0.2	0.2	1	3/26/00	22:03	Henderson	8310	7429
Fluorene	ND	ug/l	0.2	0.2	1	3/26/00	22:03	Henderson	8310	7429
Pyrene	ND	ug/l	0.3	0.3	1	3/26/00	22:03	Henderson	8310	7429
Benzo(a)anthracene	ND	ug/l	0.1	0.1	1	3/26/00	22:03	Henderson	8310	7429
Benzo(a)pyrene	ND	ug/l	0.1	0.1	1	3/26/00	22:03	Henderson	8310	7429
Benzo(b)fluoranthene	ND	ug/l	0.2	0.2	1	3/26/00	22:03	Henderson	8310	7429
Benzo(k)fluoranthene	ND	ug/l	0.2	0.2	1	3/26/00	22:03	Henderson	8310	7429
Chrysene	ND	ug/l	0.2	0.2	1	3/26/00	22:03	Henderson	8310	7429
Dibenzo(a,h)anthracene	ND	ug/l	0.3	0.3	1	3/26/00	22:03	Henderson	8310	7429
Indeno(1,2,3-cd)pyrene	ND	ug/l	0.4	0.4	1	3/26/00	22:03	Henderson	8310	7429
Acenaphthylene	ND	ug/l	2.1	2.0	1	3/26/00	22:03	Henderson	8310	7429
Benzo(g,h,i)perylene	ND	ug/l	0.8	0.8	1	3/26/00	22:03	Henderson	8310	7429
Phenanthrene	ND	ug/l	0.7	0.6	1	3/26/00	22:03	Henderson	8310	7429

ND = Not detected at the report limit.

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Analyst	Method
PAH's	970. ml	1.00 ml	3/24/00	D.Yeager	3510

ST AMERICA INC.
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60 Foster Creighton Drive
Shville, Tennessee 37204

ANALYTICAL REPORT

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ACCURA ANALYTICAL 2656

6017 FINANCIAL DR.
NORCROSS, GA 30071

Lab Number: 00-A38723

Sample ID: AB69502

Date Collected: 3/20/00

Project: 23975

Time Collected: 16:55

Project Name:

Date Received: 3/23/00

Sampler:

Time Received: 9:00

State Certification: 387

Sample Type: Water

Site I.D.:

Surrogate	% Recovery	Target Range
PAH Surr., p-terphenyl d14	66.	20. - 140.

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Report Approved By: _____ Report Date: 3/29/00

Theodore J. Duello, Ph.D., Technical Serv.
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Eric S. Smith, Assistant Technical Director
Gail A Lage, Technical Serv.
Paul E. Lane, Jr., Lab Director
Glenn L. Norton, Technical Serv.
Kelly S. Ruppel, Technical Serv.
Pamela A. Langford, Technical Serv.

Laboratory Certification Number: 387

TEST AMERICA INC.
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2960 Foster Creighton Drive
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ANALYTICAL REPORT

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ACCURA ANALYTICAL 2656

6017 FINANCIAL DR.
NORCROSS, GA 30071

Lab Number: 00-A38724

Sample ID: AB89503

Date Collected: 3/20/00

Project: 23975

Time Collected: 16:35

Project Name:

Date Received: 3/23/00

Sampler:

Time Received: 9:00

State Certification: 387

Sample Type: Water

Site I.D.:

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Date	Time	Analyst	Method	Batch
ORGANIC PARAMETERS										
Naphthalene	ND	ug/l	1.0	1.0	1	3/26/00	22:03	Henderson	8310	7429
Acenapthene	ND	ug/l	1.0	1.0	1	3/26/00	22:03	Henderson	8310	7429
Anthracene	ND	ug/l	0.7	0.7	1	3/26/00	22:03	Henderson	8310	7429
Fluoranthene	ND	ug/l	0.2	0.2	1	3/26/00	22:03	Henderson	8310	7429
Fluorene	ND	ug/l	0.2	0.2	1	3/26/00	22:03	Henderson	8310	7429
Pyrene	ND	ug/l	0.3	0.3	1	3/26/00	22:03	Henderson	8310	7429
Benzo(a)anthracene	ND	ug/l	0.1	0.1	1	3/26/00	22:03	Henderson	8310	7429
Benzo(a)pyrene	ND	ug/l	0.1	0.1	1	3/26/00	22:03	Henderson	8310	7429
Benzo(b)fluoranthene	ND	ug/l	0.2	0.2	1	3/26/00	22:03	Henderson	8310	7429
Benzo(k)fluoranthene	ND	ug/l	0.2	0.2	1	3/26/00	22:03	Henderson	8310	7429
Chrysene	ND	ug/l	0.2	0.2	1	3/26/00	22:03	Henderson	8310	7429
Dibenzo(a,h)anthracene	ND	ug/l	0.3	0.3	1	3/26/00	22:03	Henderson	8310	7429
Indeno(1,2,3-cd)pyrene	ND	ug/l	0.4	0.4	1	3/26/00	22:03	Henderson	8310	7429
Acenaphthylene	ND	ug/l	2.0	2.0	1	3/26/00	22:03	Henderson	8310	7429
Benzo(g,h,i)perylene	ND	ug/l	0.8	0.8	1	3/26/00	22:03	Henderson	8310	7429
Phenanthrene	ND	ug/l	0.7	0.6	1	3/26/00	22:03	Henderson	8310	7429

ND = Not detected at the report limit.

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Analyst	Method
PAH's	980. ml	1.00 ml	3/24/00	D.Yeager	3510

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60 Foster Creighton Drive
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ANALYTICAL REPORT

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ACCURA ANALYTICAL 2656

6017 FINANCIAL DR.
NORCROSS, GA 30071

Lab Number: 00-A38724

Sample ID: A889503

Date Collected: 3/20/00

Project: 23975

Time Collected: 16:35

Project Name:

Date Received: 3/23/00

Sampler:

Time Received: 9:00

State Certification: 387

Sample Type: Water

Site I.D.:

Surrogate	% Recovery	Target Range
PAH Surr., p-terphenyl d14	36.	20. - 140.

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Pamela A. Langford, Technical Serv.

Laboratory Certification Number: 387

EST AMERICA INC.
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ashville. Tennessee 37204

ANALYTICAL REPORT

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ACCURA ANALYTICAL 2656

6017 FINANCIAL DR.
NORCROSS, GA 30071

Lab Number: 00-A38725

Sample ID: AB89504

Date Collected: 3/20/00

Project: 23975

Time Collected: 16:20

Project Name:

Date Received: 3/23/00

Sampler:

Time Received: 9:00

State Certification: 387

Sample Type: Water

Site I.D.:

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Date	Time	Analyst	Method	Batch
ORGANIC PARAMETERS										
Naphthalene	ND	ug/l	1.0	1.0	1	3/26/00	22:03	Henderson	8310	7429
Acenapthene	ND	ug/l	1.0	1.0	1	3/26/00	22:03	Henderson	8310	7429
Anthracene	ND	ug/l	0.7	0.7	1	3/26/00	22:03	Henderson	8310	7429
Fluoranthene	ND	ug/l	0.2	0.2	1	3/26/00	22:03	Henderson	8310	7429
Fluorene	ND	ug/l	0.2	0.2	1	3/26/00	22:03	Henderson	8310	7429
Pyrene	ND	ug/l	0.3	0.3	1	3/26/00	22:03	Henderson	8310	7429
Benzo(a)anthracene	ND	ug/l	0.1	0.1	1	3/26/00	22:03	Henderson	8310	7429
Benzo(a)pyrene	ND	ug/l	0.1	0.1	1	3/26/00	22:03	Henderson	8310	7429
Benzo(b)fluoranthene	ND	ug/l	0.2	0.2	1	3/26/00	22:03	Henderson	8310	7429
Benzo(k)fluoranthene	ND	ug/l	0.2	0.2	1	3/26/00	22:03	Henderson	8310	7429
Chrysene	ND	ug/l	0.2	0.2	1	3/26/00	22:03	Henderson	8310	7429
Dibenzo(a,h)anthracene	ND	ug/l	0.3	0.3	1	3/26/00	22:03	Henderson	8310	7429
Indeno(1,2,3-cd)pyrene	ND	ug/l	0.4	0.4	1	3/26/00	22:03	Henderson	8310	7429
Acenaphthylene	ND	ug/l	2.0	2.0	1	3/26/00	22:03	Henderson	8310	7429
Benzo(g,h,i)perylene	ND	ug/l	0.8	0.8	1	3/26/00	22:03	Henderson	8310	7429
Phenanthrene	ND	ug/l	0.7	0.6	1	3/26/00	22:03	Henderson	8310	7429

ND = Not detected at the report limit.

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Analyst	Method
PAH's	980. ml	1.00 ml	3/24/00	D.Yeager	3510

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ANALYTICAL REPORT

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ACCURA ANALYTICAL 2656

6017 FINANCIAL DR.
NORCROSS, GA 30071

Lab Number: 00-A38725

Sample ID: AB89504

Date Collected: 3/20/00

Project: 23975

Time Collected: 16:20

Project Name:

Date Received: 3/23/00

Sampler:

Time Received: 9:00

State Certification: 387

Sample Type: Water

Site I.D.:

Surrogate	% Recovery	Target Range
PAH Surr., p-terphenyl d14	38.	20. - 140.

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Report Approved By: _____ Report Date: 3/29/00

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Pamela A. Langford, Technical Serv.

Laboratory Certification Number: 387

EST AMERICA INC.
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960 Foster Creighton Drive
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ANALYTICAL REPORT

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ACCURA ANALYTICAL 2656

6017 FINANCIAL DR.
NORCROSS, GA 30071

Lab Number: 00-A38726

Sample ID: AB89505

Date Collected: 3/20/00

Project: 23975

Time Collected: 17:05

Project Name:

Date Received: 3/23/00

Sampler:

Time Received: 9:00

State Certification: 387

Sample Type: Water

Site I.D.:

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Date	Time	Analyst	Method	Batch
ORGANIC PARAMETERS										
Naphthalene	ND	ug/l	1.0	1.0	1	3/26/00	22:03	Henderson	8310	7429
Acenapthene	ND	ug/l	1.0	1.0	1	3/26/00	22:03	Henderson	8310	7429
Anthracene	ND	ug/l	0.7	0.7	1	3/26/00	22:03	Henderson	8310	7429
Fluoranthene	ND	ug/l	0.2	0.2	1	3/26/00	22:03	Henderson	8310	7429
Fluorene	ND	ug/l	0.2	0.2	1	3/26/00	22:03	Henderson	8310	7429
Pyrene	ND	ug/l	0.3	0.3	1	3/26/00	22:03	Henderson	8310	7429
Benzo(a)anthracene	ND	ug/l	0.1	0.1	1	3/26/00	22:03	Henderson	8310	7429
Benzo(a)pyrene	ND	ug/l	0.1	0.1	1	3/26/00	22:03	Henderson	8310	7429
Benzo(b)fluoranthene	ND	ug/l	0.2	0.2	1	3/26/00	22:03	Henderson	8310	7429
Benzo(k)fluoranthene	ND	ug/l	0.2	0.2	1	3/26/00	22:03	Henderson	8310	7429
Chrysene	ND	ug/l	0.2	0.2	1	3/26/00	22:03	Henderson	8310	7429
Dibenzo(a,h)anthracene	ND	ug/l	0.3	0.3	1	3/26/00	22:03	Henderson	8310	7429
Indeno(1,2,3-cd)pyrene	ND	ug/l	0.4	0.4	1	3/26/00	22:03	Henderson	8310	7429
Acenaphthylene	ND	ug/l	2.0	2.0	1	3/26/00	22:03	Henderson	8310	7429
Benzo(g,h,i)perylene	ND	ug/l	0.8	0.8	1	3/26/00	22:03	Henderson	8310	7429
Phenanthrene	ND	ug/l	0.7	0.6	1	3/26/00	22:03	Henderson	8310	7429

ND - Not detected at the report limit.

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Analyst	Method
PAH's	980. ml	1.00 ml	3/24/00	D.Yeager	3510

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ANALYTICAL REPORT

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ACCURA ANALYTICAL 2656

6017 FINANCIAL DR.
NORCROSS, GA 30071

Lab Number: 00-A38726

Sample ID: A889505

Date Collected: 3/20/00

Project: 23975

Time Collected: 17:05

Project Name:

Date Received: 3/23/00

Sampler:

Time Received: 9:00

State Certification: 387

Sample Type: Water

Site I.D.:

Surrogate	% Recovery	Target Range
PAH Surr., p-terphenyl d14	60.	20. - 140.

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Report Approved By: _____ Report Date: 3/29/00

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Eric S. Smith, Assistant Technical Director
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Paul E. Lane, Jr., Lab Director
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Kelly S. Ruppel, Technical Serv.
Pamela A. Langford, Technical Serv.

Laboratory Certification Number: 387

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ANALYTICAL REPORT

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ACCURA ANALYTICAL 2656

6017 FINANCIAL DR.
NORCROSS, GA 30071

Lab Number: 00-A38727

Sample ID: AB89506

Date Collected: 3/20/00

Project: 23975

Time Collected: 16:45

Project Name:

Date Received: 3/23/00

Sampler:

Time Received: 9:00

State Certification: 387

Sample Type: Water

Site I.D.:

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Date	Time	Analyst	Method	Batch
ORGANIC PARAMETERS										
Naphthalene	ND	ug/l	1.0	1.0	1	3/26/00	22:03	Henderson	8310	7429
Acenapthene	ND	ug/l	1.0	1.0	1	3/26/00	22:03	Henderson	8310	7429
Anthracene	ND	ug/l	0.7	0.7	1	3/26/00	22:03	Henderson	8310	7429
Fluoranthene	ND	ug/l	0.2	0.2	1	3/26/00	22:03	Henderson	8310	7429
Fluorene	ND	ug/l	0.2	0.2	1	3/26/00	22:03	Henderson	8310	7429
Pyrene	ND	ug/l	0.3	0.3	1	3/26/00	22:03	Henderson	8310	7429
Benzo(a)anthracene	ND	ug/l	0.1	0.1	1	3/26/00	22:03	Henderson	8310	7429
Benzo(a)pyrene	ND	ug/l	0.1	0.1	1	3/26/00	22:03	Henderson	8310	7429
Benzo(b)fluoranthene	ND	ug/l	0.2	0.2	1	3/26/00	22:03	Henderson	8310	7429
Benzo(k)fluoranthene	ND	ug/l	0.2	0.2	1	3/26/00	22:03	Henderson	8310	7429
Chrysene	ND	ug/l	0.2	0.2	1	3/26/00	22:03	Henderson	8310	7429
Dibenzo(a,h)anthracene	ND	ug/l	0.3	0.3	1	3/26/00	22:03	Henderson	8310	7429
Indeno(1,2,3-cd)pyrene	ND	ug/l	0.4	0.4	1	3/26/00	22:03	Henderson	8310	7429
Acenaphthylene	ND	ug/l	2.0	2.0	1	3/26/00	22:03	Henderson	8310	7429
Benzo(g,h,i)perylene	ND	ug/l	0.8	0.8	1	3/26/00	22:03	Henderson	8310	7429
Phenanthrene	ND	ug/l	0.7	0.6	1	3/26/00	22:03	Henderson	8310	7429

ND = Not detected at the report limit

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Analyst	Method
PAH's	980. ml	1.00 ml	3/24/00	D.Yeager	3510

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ANALYTICAL REPORT

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ACCURA ANALYTICAL 2656

6017 FINANCIAL DR.
NORCROSS, GA 30071

Lab Number: 00-A38727

Sample ID: AB89506

Date Collected: 3/20/00

Project: 23975

Time Collected: 16:45

Project Name:

Date Received: 3/23/00

Sampler:

Time Received: 9:00

State Certification: 387

Sample Type: Water

Site I.D.:

Surrogate	% Recovery	Target Range
PAH Surr., p-terphenyl d14	42.	20. - 140.

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Report Approved By: _____ Report Date: 3/29/00

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Pamela A. Langford, Technical Serv.

Laboratory Certification Number: 387

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ANALYTICAL REPORT

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ACCURA ANALYTICAL 2656

6017 FINANCIAL DR.
NORCROSS, GA 30071

Lab Number: 00-A38728

Sample ID: AB89507

Date Collected: 3/20/00

Project: 23975

Time Collected: 15:55

Project Name:

Date Received: 3/23/00

Sampler:

Time Received: 9:00

State Certification: 387

Sample Type: Water

Site I.D.:

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Date	Time	Analyst	Method	Batch
ORGANIC PARAMETERS										
Naphthalene	20.6	ug/l	5.1	1.0	5	3/26/00	22:03	Henderson	8310	7429
Acenapthene	ND	ug/l	1.0	1.0	1	3/26/00	22:03	Henderson	8310	7429
Anthracene	ND	ug/l	0.7	0.7	1	3/26/00	22:03	Henderson	8310	7429
Fluoranthene	ND	ug/l	0.2	0.2	1	3/26/00	22:03	Henderson	8310	7429
Fluorene	ND	ug/l	0.2	0.2	1	3/26/00	22:03	Henderson	8310	7429
Pyrene	ND	ug/l	0.3	0.3	1	3/26/00	22:03	Henderson	8310	7429
Benzo(a)anthracene	ND	ug/l	0.1	0.1	1	3/26/00	22:03	Henderson	8310	7429
Benzo(a)pyrene	ND	ug/l	0.1	0.1	1	3/26/00	22:03	Henderson	8310	7429
Benzo(b)fluoranthene	ND	ug/l	0.2	0.2	1	3/26/00	22:03	Henderson	8310	7429
Benzo(k)fluoranthene	ND	ug/l	0.2	0.2	1	3/26/00	22:03	Henderson	8310	7429
Chrysene	ND	ug/l	0.2	0.2	1	3/26/00	22:03	Henderson	8310	7429
Dibenzo(a,h)anthracene	ND	ug/l	0.3	0.3	1	3/26/00	22:03	Henderson	8310	7429
Indeno(1,2,3-cd)pyrene	ND	ug/l	0.4	0.4	1	3/26/00	22:03	Henderson	8310	7429
Acenaphthylene	ND	ug/l	2.0	2.0	1	3/26/00	22:03	Henderson	8310	7429
Benzo(g,h,i)perylene	ND	ug/l	0.8	0.8	1	3/26/00	22:03	Henderson	8310	7429
Phenanthrene	ND	ug/l	0.7	0.6	1	3/26/00	22:03	Henderson	8310	7429

ND - Not detected at the report limit.

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Analyst	Method
PAH's	980. ml	1.00 ml	3/24/00	D.Yeager	3510

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ANALYTICAL REPORT

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ACCURA ANALYTICAL 2656

6017 FINANCIAL DR.
NORCROSS, GA 30071

Lab Number: OO A38728

Sample ID: AB89507

Date Collected: 3/20/00

Project: 23975

Time Collected: 15:55

Project Name:

Date Received: 3/23/00

Sampler:

Time Received: 9:00

State Certification: 387

Sample Type: Water

Site I.D.:

Surrogate	% Recovery	Target Range
PAH Surr., p-terphenyl d14	30.	20. - 140.

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Kelly S. Ruppel, Technical Serv.
Pamela A. Langford, Technical Serv.

Laboratory Certification Number: 387

'EST AMERICA INC.
'PECIALIZED ASSAYS ENVIRONMENTAL
:960 Foster Creighton Drive
lashville, Tennessee 37204

ANALYTICAL REPORT

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ACCURA ANALYTICAL 2656

6017 FINANCIAL DR.
NORCROSS, GA 30071

Lab Number: 00-A38729

Sample ID: AB89508

Date Collected: 3/20/00

Project: 23975

Time Collected: 13:45

Project Name:

Date Received: 3/23/00

Sampler:

Time Received: 9:00

State Certification: 387

Sample Type: Water

Site I.D.:

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Date	Time	Analyst	Method	Batch
ORGANIC PARAMETERS										
Naphthalene	ND	ug/l	1.0	1.0	1	3/26/00	22:03	Henderson	8310	7429
Acenapthene	ND	ug/l	1.0	1.0	1	3/26/00	22:03	Henderson	8310	7429
Anthracene	ND	ug/l	0.7	0.7	1	3/26/00	22:03	Henderson	8310	7429
Fluoranthene	ND	ug/l	0.2	0.2	1	3/26/00	22:03	Henderson	8310	7429
Fluorene	ND	ug/l	0.2	0.2	1	3/26/00	22:03	Henderson	8310	7429
Pyrene	ND	ug/l	0.3	0.3	1	3/26/00	22:03	Henderson	8310	7429
Benzo(a)anthracene	ND	ug/l	0.1	0.1	1	3/26/00	22:03	Henderson	8310	7429
Benzo(a)pyrene	ND	ug/l	0.1	0.1	1	3/26/00	22:03	Henderson	8310	7429
Benzo(b)fluoranthene	ND	ug/l	0.2	0.2	1	3/26/00	22:03	Henderson	8310	7429
Benzo(k)fluoranthene	ND	ug/l	0.2	0.2	1	3/26/00	22:03	Henderson	8310	7429
Chrysene	ND	ug/l	0.2	0.2	1	3/26/00	22:03	Henderson	8310	7429
Dibenzo(a,h)anthracene	ND	ug/l	0.3	0.3	1	3/26/00	22:03	Henderson	8310	7429
Indeno(1,2,3-cd)pyrene	ND	ug/l	0.4	0.4	1	3/26/00	22:03	Henderson	8310	7429
Acenaphthylene	ND	ug/l	2.0	2.0	1	3/26/00	22:03	Henderson	8310	7429
Benzo(g,h,i)perylene	ND	ug/l	0.8	0.8	1	3/26/00	22:03	Henderson	8310	7429
Phenanthrene	ND	ug/l	0.7	0.6	1	3/26/00	22:03	Henderson	8310	7429

ND = Not detected at the report limit.

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Analyst	Method
PAH's	980. ml	1.00 ml	3/24/00	D.Yeager	3510

ST AMERICA INC.
ECIALIZED ASSAYS ENVIRONMENTAL
60 Foster Creighton Drive
shville, Tennessee 37204

ANALYTICAL REPORT

Original report and a copy of the chain of custody will follow by mail.

ACCURA ANALYTICAL 2656

6017 FINANCIAL DR.
NORCROSS, GA 30071

Lab Number: 00-A38729

Sample ID: AB59508

Date Collected: 3/20/00

Project: 23975

Time Collected: 13:45

Project Name:

Date Received: 3/23/00

Sampler:

Time Received: 9:00

State Certification: 387

Sample Type: Water

Site I.D.:

Surrogate	% Recovery	Target Range
PAH Surr., p-terphenyl d14	42.	20. - 140.

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Report Approved By: _____ Report Date: 3/29/00

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Eric S. Smith, Assistant Technical Director
Gail A Lage, Technical Serv.
Paul E. Lane, Jr., Lab Director
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Kelly S. Ruppel, Technical Serv.
Pamela A. Langford, Technical Serv.

Laboratory Certification Number: 387

EST AMERICA INC.
PECIALIZED ASSAYS ENVIRONMENTAL
960 Foster Creighton Drive
lashville, Tennessee 37204

ANALYTICAL REPORT

* Original report and a copy of the chain of custody will follow by mail.

ACCURA ANALYTICAL 2656

6017 FINANCIAL DR.
NORCROSS, GA 30071

Lab Number: OO-A38730

Sample ID: AB89509

Date Collected: 3/20/00

Project: 23975

Time Collected: 14:45

Project Name:

Date Received: 3/23/00

Sampler:

Time Received: 9:00

State Certification: 387

Sample Type: Water

Site I.D.:

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Date	Time	Analyst	Method	Batch
ORGANIC PARAMETERS										
Naphthalene	ND	ug/l	1.0	1.0	1	3/26/00	22:03	Henderson	8310	7429
Acenapthene	ND	ug/l	1.0	1.0	1	3/26/00	22:03	Henderson	8310	7429
Anthracene	ND	ug/l	0.7	0.7	1	3/26/00	22:03	Henderson	8310	7429
Fluoranthene	ND	ug/l	0.2	0.2	1	3/26/00	22:03	Henderson	8310	7429
Fluorene	ND	ug/l	0.2	0.2	1	3/26/00	22:03	Henderson	8310	7429
Pyrene	ND	ug/l	0.3	0.3	1	3/26/00	22:03	Henderson	8310	7429
Benzo(a)anthracene	ND	ug/l	0.1	0.1	1	3/26/00	22:03	Henderson	8310	7429
Benzo(a)pyrene	ND	ug/l	0.1	0.1	1	3/26/00	22:03	Henderson	8310	7429
Benzo(b)fluoranthene	ND	ug/l	0.2	0.2	1	3/26/00	22:03	Henderson	8310	7429
Benzo(k)fluoranthene	ND	ug/l	0.2	0.2	1	3/26/00	22:03	Henderson	8310	7429
Chrysene	ND	ug/l	0.2	0.2	1	3/26/00	22:03	Henderson	8310	7429
Dibenzo(a,h)anthracene	ND	ug/l	0.3	0.3	1	3/26/00	22:03	Henderson	8310	7429
Indeno(1,2,3-cd)pyrene	ND	ug/l	0.4	0.4	1	3/26/00	22:03	Henderson	8310	7429
Acenaphthylene	ND	ug/l	2.0	2.0	1	3/26/00	22:03	Henderson	8310	7429
Benzo(g,h,i)perylene	ND	ug/l	0.8	0.8	1	3/26/00	22:03	Henderson	8310	7429
Phenanthrene	ND	ug/l	0.7	0.6	1	3/26/00	22:03	Henderson	8310	7429

ND = Not detected at the report limit.

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Analyst	Method
PAH's	980. ml	1.00 ml	3/24/00	D.Yeager	3510

ST AMERICA INC.
ECIALIZED ASSAYS ENVIRONMENTAL
60 Foster Creighton Drive
shville, Tennessee 37204

ANALYTICAL REPORT

Original report and a copy of the chain of custody will follow by mail.

ACCURA ANALYTICAL 2656

6017 FINANCIAL DR.
NORCROSS, GA 30071

Lab Number: 00-A38730

Sample ID: AB89509

Date Collected: 3/20/00

Project: 23975

Time Collected: 14:45

Project Name:

Date Received: 3/23/00

Sampler:

Time Received: 9:00

State Certification: 387

Sample Type: Water

Site I.D.:

Surrogate	% Recovery	Target Range
PAH Surr., p-terphenyl d14	38.	20. - 140.

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Report Approved By: _____ Report Date: 3/29/00

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shville, Tennessee 37204

ANALYTICAL REPORT

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ACCURA ANALYTICAL 2656

6017 FINANCIAL DR.
NORCROSS, GA 30071

Lab Number: 00-A38730

Sample ID: AB89509

Date Collected: 3/20/00

Project: 23975

Time Collected: 14:45

Project Name:

Date Received: 3/23/00

Sampler:

Time Received: 9:00

State Certification: 387

Sample Type: Water

Site I.D.:

Surrogate	% Recovery	Target Range
PAH Surr., p-terphenyl d14	38.	20. - 140.

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Report Approved By: _____ Report Date: 3/29/00

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Pamela A. Langford, Technical Serv.

Laboratory Certification Number: 387

EST AMERICA INC.
PECIALIZED ASSAYS ENVIRONMENTAL
960 Foster Creighton Drive
ashville, Tennessee 37204

ANALYTICAL REPORT

* Original report and a copy of the chain of custody will follow by mail.

ACCURA ANALYTICAL 2656

6017 FINANCIAL DR.
NORCROSS, GA 30071

Lab Number: 00-A38731

Sample ID: AB89510

Date Collected: 3/20/00

Project: 23975

Time Collected: 14:30

Project Name:

Date Received: 3/23/00

Sampler:

Time Received: 9:00

State Certification: 387

Sample Type: Water

Site I.D.:

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Date	Time	Analyst	Method	Batch
ORGANIC PARAMETERS										
Naphthalene	ND	ug/l	1.0	1.0	1	3/26/00	22:03	Henderson	8310	7429
Acenapthene	ND	ug/l	1.0	1.0	1	3/26/00	22:03	Henderson	8310	7429
Anthracene	ND	ug/l	0.7	0.7	1	3/26/00	22:03	Henderson	8310	7429
Fluoranthene	ND	ug/l	0.2	0.2	1	3/26/00	22:03	Henderson	8310	7429
Fluorene	ND	ug/l	0.2	0.2	1	3/26/00	22:03	Henderson	8310	7429
Pyrene	ND	ug/l	0.3	0.3	1	3/26/00	22:03	Henderson	8310	7429
Benzo(a)anthracene	ND	ug/l	0.1	0.1	1	3/26/00	22:03	Henderson	8310	7429
Benzo(a)pyrene	ND	ug/l	0.1	0.1	1	3/26/00	22:03	Henderson	8310	7429
Benzo(b)fluoranthene	ND	ug/l	0.2	0.2	1	3/26/00	22:03	Henderson	8310	7429
Benzo(k)fluoranthene	ND	ug/l	0.2	0.2	1	3/26/00	22:03	Henderson	8310	7429
Chrysene	ND	ug/l	0.2	0.2	1	3/26/00	22:03	Henderson	8310	7429
Dibenzo(a,h)anthracene	ND	ug/l	0.3	0.3	1	3/26/00	22:03	Henderson	8310	7429
Indeno(1,2,3-cd)pyrene	ND	ug/l	0.4	0.4	1	3/26/00	22:03	Henderson	8310	7429
Acenaphthylene	ND	ug/l	2.0	2.0	1	3/26/00	22:03	Henderson	8310	7429
Benzo(g,h,i)perylene	ND	ug/l	0.8	0.8	1	3/26/00	22:03	Henderson	8310	7429
Phenanthrene	ND	ug/l	0.7	0.6	1	3/26/00	22:03	Henderson	8310	7429

ND = Not detected at the report limit.

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Analyst	Method
PAH's	980. ml	1.00 ml	3/24/00	D.Yeager	3510

ST AMERICA INC.
ECIALIZED ASSAYS ENVIRONMENTAL
60 Foster Creighton Drive
ahville, Tennessee 37204

ANALYTICAL REPORT

Original report and a copy of the chain of custody will follow by mail.

ACCURA ANALYTICAL 2656

6017 FINANCIAL DR.
NORCROSS, GA 30071

Lab Number: 00-A36731

Sample ID: AB89510

Date Collected: 3/20/00

Project: 23975

Time Collected: 14:30

Project Name:

Date Received: 3/23/00

Sampler:

Time Received: 9:00

State Certification: 387

Sample Type: Water

Site I.D.:

Surrogate	% Recovery	Target Range
PAH Surr., p-terphenyl d14	76.	20. - 140.

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Report Approved By: _____ Report Date: 3/29/00

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Kelly S. Ruppel, Technical Serv.
Pamela A. Langford, Technical Serv.

Laboratory Certification Number: 387

EST AMERICA INC.
PECIALIZED ASSAYS ENVIRONMENTAL
960 Foster Creighton Drive
ashville, Tennessee 37204

ANALYTICAL REPORT

* Original report and a copy of the chain of custody will follow by mail.

ACCURA ANALYTICAL 2656

6017 FINANCIAL DR.
NORCROSS, GA 30071

Lab Number: 00-A38732

Sample ID: AB89511

Date Collected: 3/20/00

Project: 23975

Time Collected: 14:55

Project Name:

Date Received: 3/23/00

Sampler:

Time Received: 9:00

State Certification: 387

Sample Type: Water

Site I.D.:

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Date	Time	Analyst	Method	Batch
ORGANIC PARAMETERS										
Naphthalene	ND	ug/l	1.0	1.0	1	3/26/00	22:03	Henderson	8310	7429
Acenapthene	ND	ug/l	1.0	1.0	1	3/26/00	22:03	Henderson	8310	7429
Anthracene	ND	ug/l	0.7	0.7	1	3/26/00	22:03	Henderson	8310	7429
Fluoranthene	ND	ug/l	0.2	0.2	1	3/26/00	22:03	Henderson	8310	7429
Fluorene	ND	ug/l	0.2	0.2	1	3/26/00	22:03	Henderson	8310	7429
Pyrene	ND	ug/l	0.3	0.3	1	3/26/00	22:03	Henderson	8310	7429
Benzo(a)anthracene	ND	ug/l	0.1	0.1	1	3/26/00	22:03	Henderson	8310	7429
Benzo(a)pyrene	ND	ug/l	0.1	0.1	1	3/26/00	22:03	Henderson	8310	7429
Benzo(b)fluoranthene	ND	ug/l	0.2	0.2	1	3/26/00	22:03	Henderson	8310	7429
Benzo(k)fluoranthene	ND	ug/l	0.2	0.2	1	3/26/00	22:03	Henderson	8310	7429
Chrysene	ND	ug/l	0.2	0.2	1	3/26/00	22:03	Henderson	8310	7429
Dibenzo(a,h)anthracene	ND	ug/l	0.3	0.3	1	3/26/00	22:03	Henderson	8310	7429
Indeno(1,2,3-cd)pyrene	ND	ug/l	0.4	0.4	1	3/26/00	22:03	Henderson	8310	7429
Acenaphthylene	ND	ug/l	2.1	2.0	1	3/26/00	22:03	Henderson	8310	7429
Benzo(g,h,i)perylene	ND	ug/l	0.8	0.8	1	3/26/00	22:03	Henderson	8310	7429
Phenanthrene	ND	ug/l	0.7	0.6	1	3/26/00	22:03	Henderson	8310	7429

ND = Not detected at the report limit.

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Analyst	Method
PAH's	970. ml	1.00 ml	3/24/00	D.Yeager	3510

ST AMERICA INC.
ECIALIZED ASSAYS ENVIRONMENTAL
60 Foster Creighton Drive
shville, Tennessee 37204

ANALYTICAL REPORT

Original report and a copy of the chain of custody will follow by mail.

ACCURA ANALYTICAL 2656

6017 FINANCIAL DR.
NORCROSS, GA 30071

Lab Number: 00-A38732

Sample ID: AB69511

Date Collected: 3/20/00

Project: 23975

Time Collected: 14:55

Project Name:

Date Received: 3/23/00

Sampler:

Time Received: 9:00

State Certification: 387

Sample Type: Water

Site I.D.:

Surrogate	% Recovery	Target Range
P&H Surr., p-terphenyl d14	54.	20. - 140.

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Report Approved By: _____ Report Date: 3/29/00

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Kelly S. Ruppel, Technical Serv.
Pamela A. Langford, Technical Serv.

Laboratory Certification Number: 387

PROJECT QUALITY CONTROL DATA

Matrix Spike Recovery

Analyte	units	Orig. Val.	MS Val	Spike Conc	Recovery	Target Range	Q.C. Batch
Naphthalene	mg/l	< 0.00100	0.00730	0.0100	73	55. - 115.	7429
Acenapthene	mg/l	< 0.00100	0.00670	0.0100	67	41. - 108.	7429
Anthracene	mg/l	< 0.00066	0.00770	0.0100	77	25. - 119.	7429
Fluoranthene	mg/l	< 0.00021	0.00950	0.0100	95	42. - 120.	7429
Fluorene	mg/l	< 0.00021	0.00760	0.0100	76	48. - 118.	7429
Pyrene	mg/l	< 0.00027	0.00950	0.0100	95	51. - 114.	7429
Benzo(a)anthracene	mg/l	< 0.00013	0.00940	0.0100	94	47. - 111.	7429
Benzo(a)pyrene	mg/l	< 0.00010	0.00880	0.0100	88	51. - 109.	7429
Benzo(b)fluoranthene	mg/l	< 0.00018	0.00910	0.0100	91	62. - 115.	7429
Benzo(k)fluoranthene	mg/l	< 0.00017	0.00900	0.0100	90	62. - 110.	7429
Chrysene	mg/l	< 0.00015	0.00850	0.0100	85	58. - 109.	7429
Dibenzo(a,h)anthracene	mg/l	< 0.00030	0.00570	0.0100	57#	59. - 122.	7429
Indeno(1,2,3-cd)pyrene	mg/l	< 0.00043	0.00930	0.0100	93	56. - 114.	7429
Acenaphthylene	mg/l	< 0.00200	0.00880	0.0100	88	30. - 128.	7429
Benzo(g,h,i)perylene	mg/l	< 0.00076	0.00800	0.0100	80	56. - 115.	7429
Phenanthrene	mg/l	< 0.00064	0.00830	0.0100	83	47. - 123.	7429

Matrix Spike Duplicate

Analyte	units	Orig. Val.	Duplicate	RPD	Limit	Q.C. Batch
Naphthalene	mg/l	0.00730	0.00650	11.59	23.	7429
Acenapthene	mg/l	0.00670	0.00560	17.89	23.	7429
Anthracene	mg/l	0.00770	0.00660	15.38	27.	7429
Fluoranthene	mg/l	0.00950	0.00900	5.41	18.	7429
Fluorene	mg/l	0.00760	0.00690	9.66	27.	7429
Pyrene	mg/l	0.00950	0.00890	6.52	18.	7429
Benzo(a)anthracene	mg/l	0.00940	0.00860	8.89	21.	7429
Benzo(a)pyrene	mg/l	0.00880	0.00760	14.63	26.	7429
Benzo(b)fluoranthene	mg/l	0.00910	0.00810	11.63	23.	7429
Benzo(k)fluoranthene	mg/l	0.00900	0.00780	14.29	19.	7429
Chrysene	mg/l	0.00850	0.00770	9.88	17.	7429
Dibenzo(a,h)anthracene	mg/l	0.00570	0.00460	21.36	28.	7429
Indeno(1,2,3-cd)pyrene	mg/l	0.00930	0.00760	20.12	28.	7429
Acenaphthylene	mg/l	0.00880	0.00740	17.28	27.	7429
Benzo(g,h,i)perylene	mg/l	0.00800	0.00610	26.95	31.	7429
Phenanthrene	mg/l	0.00830	0.00720	14.19	18.	7429

PROJECT QUALITY CONTROL DATA

Laboratory Control Data

Analyte	units	Known Val.	Analyzed Val	% Recovery	Target Range	Q.C. Batch
Naphthalene	mg/l	0.0100	0.00610	61	20 - 151	7429
Acenapthene	mg/l	0.0100	0.00560	56	18 - 134	7429
Anthracene	mg/l	0.0100	0.00650	65	38 - 97	7429
Fluoranthene	mg/l	0.0100	0.00870	87	40 - 143	7429
Fluorene	mg/l	0.0100	0.00690	69	33 - 105	7429
Pyrene	mg/l	0.0100	0.00860	86	33 - 129	7429
Benzo(a)anthracene	mg/l	0.0100	0.00860	86	47 - 113	7429
Benzo(a)pyrene	mg/l	0.0100	0.00780	78	34 - 119	7429
Benzo(b)fluoranthene	mg/l	0.0100	0.00830	83	47 - 113	7429
Benzo(k)fluoranthene	mg/l	0.0100	0.00800	80	48 - 118	7429
Chrysene	mg/l	0.0100	0.00780	78	45 - 115	7429
Dibenzo(a,h)anthracene	mg/l	0.0100	0.00440	44	42 - 113	7429
Indeno(1,2,3-cd)pyrene	mg/l	0.0100	0.00790	79	38 - 114	7429
Acenaphthylene	mg/l	0.0100	0.00700	70	20 - 140	7429
Benzo(g,h,i)perylene	mg/l	0.0100	0.00620	62	42 - 130	7429
Phenanthrene	mg/l	0.0100	0.00720	72	37 - 105	7429

Blank Data

Analyte	Blank Value	Units	Q.C. Batch
Naphthalene	< 0.00100	mg/l	7429
Acenapthene	< 0.00100	mg/l	7429
Anthracene	< 0.00066	mg/l	7429
Fluoranthene	< 0.00021	mg/l	7429
Fluorene	< 0.00021	mg/l	7429
Pyrene	< 0.00027	mg/l	7429
Benzo(a)anthracene	< 0.00013	mg/l	7429
Benzo(a)pyrene	< 0.00010	mg/l	7429
Benzo(b)fluoranthene	< 0.00018	mg/l	7429
Benzo(k)fluoranthene	< 0.00017	mg/l	7429
Chrysene	< 0.00015	mg/l	7429
Dibenzo(a,h)anthracene	< 0.00030	mg/l	7429
Indeno(1,2,3-cd)pyrene	< 0.00043	mg/l	7429
Acenaphthylene	< 0.00200	mg/l	7429
Benzo(g,h,i)perylene	< 0.00076	mg/l	7429
Phenanthrene	< 0.00064	mg/l	7429

End of Report for Project 184940

23975 - CCI - Pb - Due 3/31
23980 - GA Env. Pb - Due 3/28
23987 - EIC - RCRA ↓ ↓

#3 (TRACE)

ACCURA ANALYTICAL LABORATORY, INC.

Environmental Analytical Services

Metals Digestion Log for Waters

Date: 0323.00
Analyst: RL
Time Started: 09:50
Time Ended: 1500
Matrix: [redacted]

BATCH #: 032300A
HNO_3 Acid Lot #: M99176
1:1 HCL Acid Lot #: 29J
Digestion Method: 3010A
Hot Plate Temp: 95

QCS 19 Lot #: M.99164 Amount: 0.5
QCS 7 Lot #: M.99165 Amount: 0.5
ICV Sn Lot #: M.99188 Amount: 0.1
Sample Vials Lot #: 0995

AAL #	Sample Volume (mL)	Conc. HNO_3	1:1 HCL	Final Volume	Dilution	Spikes Added QCS 19	QCS 7	ICV Sn	Comments
Blank	50	1.5+1.5	5.0	50.0	1:1				
LCS						✓	✓	✓	
LCSD						✓	✓	✓	
[redacted]									
[redacted]									
[redacted]									
[redacted]									
[redacted]									
[redacted]									
[redacted]									
[redacted]									
[redacted]									
[redacted]									
[redacted]									
[redacted]						✓	✓	✓	
[redacted]						✓	✓	✓	
[redacted]									
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[redacted]									
[redacted]						✓	✓	✓	
[redacted]						✓	✓	✓	

23975

RCRA

RL 3.23.00

0097

Reviewed By: ______________ 3010wdig Page # ______________

Adv Partial 23989 - DUE 4/4 · Appdx I - RCRA
Adv - 24003 - DUE 4/6 Appdx I
GEC 24008 - DUE 3/31 RCRA (89711, 712)

ACCURA ANALYTICAL LABORATORY, INC.

Environmental Analytical Services

Metals Digestion Log for Waters

Date: 03.27.00
Analyst: RL
Time Started: 07:25
Time Ended: 1400
Matrix: Water

BATCH #: 032700A
HNO_3 Acid Lot #: M-99170
1:1 HCL Acid Lot #: 29J
Digestion Method: 3010A
Hot Plate Temp: 95°

QCS 19 Lot #: M-99164 Amount: 0.5
QCS 7 Lot #: M-99165 Amount: 0.5
ICV Sn Lot #: M-99128 Amount: 0.1
Sample Vials Lot #: 0095

AAL #	Sample Volume (mL)	Conc. HNO_3	1:1 HCL	Final Volume	Dilution	Spikes Added QCS 19	Spikes Added QCS 7	Spikes Added ICV Sn	Comments
Blank	50.0	1.5+1.5	5.0	50.0	1:1				
LCS						✓	✓	✓	
LCSD						✓	✓	✓	
89596	23989 Appdx II								
89598									
89599									
89692	24003 Appdx I								
89693									
89694									
89695									
89629									
89629D									
89629MS						✓	✓	✓	
89629MSD						✓	✓	✓	
89696									
89697									
89698									
89699									
89700									
[redacted]	[redacted]								
89711D									
89711MS						✓	✓	✓	
89711MSD						✓	✓	✓	
89600									

23989 Appdx I

RL 3.27.00

Reviewed By: _____ 3010w.dig Page = 0159

#	Sample Name	File	Method	Date	Time	OpID	Type	Mode
1	STD1-Blank	MAR1800	WATERS	03/29/00	19:53		X	IR
2	STD8	MAR1800	WATERS	03/29/00	19:59		X	IR
3	STD3	MAR1800	WATERS	03/29/00	20:03		X	IR
4	STD4	MAR1800	WATERS	03/29/00	20:08		X	IR
5	STD2	MAR1800	WATERS	03/29/00	20:13		X	IR
6	icv 1	MAR1800	WATERS	03/29/00	20:20		Q	CONC
7	icv 2	MAR1800	WATERS	03/29/00	20:26		Q	CONC
8	icb	MAR1800	WATERS	03/29/00	20:33		B	CONC
9	ss i	MAR1800	WATERS	03/29/00	20:39		Q	CONC
10	ss i low	MAR1800	WATERS	03/29/00	20:46		Q	CONC
11	ics a	MAR1800	WATERS	03/29/00	20:52		Q	CONC
12	ics ab	MAR1800	WATERS	03/29/00	20:58		Q	CONC
13	prep blk0950	MAR1800	WATERS	03/29/00	21:06		S	CONC
14	lcs 032300a	MAR1800	WATERS	03/29/00	21:12		S	CONC
15	lcsd 032300a	MAR1800	WATERS	03/29/00	21:18		S	CONC
16	89497	MAR1800	WATERS	03/29/00	21:24		S	CONC
17	89498	MAR1800	WATERS	03/29/00	21:30		S	CONC
18	89499	MAR1800	WATERS	03/29/00	21:36		S	CONC
19	89500	MAR1800	WATERS	03/29/00	21:43		S	CONC
20	89501	MAR1800	WATERS	03/29/00	21:49		S	CONC
21	89502	MAR1800	WATERS	03/29/00	21:55		S	CONC
22	89503	MAR1800	WATERS	03/29/00	22:01		S	CONC
23	icv 1	MAR1800	WATERS	03/29/00	22:07		Q	CONC
24	icv 2	MAR1800	WATERS	03/29/00	22:14		Q	CONC
25	icb	MAR1800	WATERS	03/29/00	22:20		B	CONC
26	89504	MAR1800	WATERS	03/29/00	22:27		S	CONC
27	89505	MAR1800	WATERS	03/29/00	22:33		S	CONC
28	89506	MAR1800	WATERS	03/29/00	22:39		S	CONC
29	89506d	MAR1800	WATERS	03/29/00	22:45		S	CONC
30	89506ms	MAR1800	WATERS	03/29/00	22:51		S	CONC
31	89506msd	MAR1800	WATERS	03/29/00	22:57		S	CONC
32	89507	MAR1800	WATERS	03/29/00	23:04		S	CONC
33	89508	MAR1800	WATERS	03/29/00	23:10		S	CONC
34	89509	MAR1800	WATERS	03/29/00	23:16		S	CONC
35	89510	MAR1800	WATERS	03/29/00	23:22		S	CONC
36	icv 1	MAR1800	WATERS	03/29/00	23:28		Q	CONC
37	icv 2	MAR1800	WATERS	03/29/00	23:45		Q	CONC
38	icb	MAR1800	WATERS	03/29/00	23:56		B	CONC
39	89511	MAR1800	WATERS	03/30/00	00:02		S	CONC
40	89530	MAR1800	WATERS	03/30/00	00:08		S	CONC
41	89531	MAR1800	WATERS	03/30/00	00:15		S	CONC
42	89581	MAR1800	WATERS	03/30/00	00:22		S	CONC
43	89582	MAR1800	WATERS	03/30/00	00:28		S	CONC
44	89582d	MAR1800	WATERS	03/30/00	00:34		S	CONC
45	89582ms	MAR1800	WATERS	03/30/00	00:40		S	CONC
46	89582msd	MAR1800	WATERS	03/30/00	00:46		S	CONC
47	89497 1:4sd	MAR1800	WATERS	03/30/00	00:54		S	CONC
48	89497 1:1msa	MAR1800	WATERS	03/30/00	01:00		S	CONC
49	icv 1	MAR1800	WATERS	03/30/00	01:06		Q	CONC
50	icv 2	MAR1800	WATERS	03/30/00	01:13		Q	CONC
51	icb	MAR1800	WATERS	03/30/00	01:20		B	CONC
52	ss i	MAR1800	WATERS	03/30/00	01:26		Q	CONC
53	ss i low	MAR1800	WATERS	03/30/00	01:32		Q	CONC

#	Sample Name	File	Method	Date	Time	OpID	Type	Mode
54	ics a	MAR1800	WATERS	03/30/00	01:39		Q	CONC
55	ics ab	MAR1800	WATERS	03/30/00	01:45		Q	CONC

#	Element	STD'lank	STD8	STD3	STD4	STD2	icv 1
1	Ag3280	.00028	1.04967				Q.2302
2	As1890	.00509			.62717		Q.1819
3	Ba4934	.00015				1.9627	.2044
4	Cd2265	-.00049				1.97689	.2023
5	Cr2677	.00044			.76108		.2003
6	Pb2203						.1998
7	Se1960						.1993

#	Element	icv 2	icb	ss i	ss i low	ics a	ics ab
1	Ag3280	1.046	-.0006	Q.0001	-.0006	-.0020	.3172
2	As1890	.9832	L-.0149	Q.0246	Q-.0053	Q-.0223	1.042
3	Ba4934	1.006	.0002	.0413	.0115	.0010	.3202
4	Cd2265	1.006	.0003	.0011	.0005	-.0018	.3143
5	Cr2677	.9962	-.0004	Q.0029	Q.0006	-.0003	.3117
6	Pb2203	.9893	.0001	.0084	Q.0038	.0043	1.071
7	Se1960	.9822	.0021	.0428	Q.0155	-.0026	.5347

#	Element	pre'0950	lcs'300a	lcs'300a	89497	89498	89499
1	Ag3280	-.0001	1.064	1.062	-.0013	-.0014	-.0023
2	As1890	-.0128	1.088	1.081	-.0115	-.0135	-.0112
3	Ba4934	.0000	1.078	1.083	.2146	.2211	.1437
4	Cd2265	.0002	1.080	1.088	-.0008	-.0004	-.0023
5	Cr2677	-.0003	1.061	1.070	.0490	.0524	.0427
6	Pb2203	-.0001	1.074	1.081	.0685	.0362	.0570
7	Se1960	-.0032	1.055	1.062	-.0020	.0001	.0021

#	Element	89500	89501	89502	89503	icv 1	icv 2
1	Ag3280	-.0017	-.0017	-.0018	-.0019	Q.2318	1.049
2	As1890	-.0177	.0138	-.0172	-.0099	.1902	1.012
3	Ba4934	.3836	.0997	.2786	.1347	.2044	1.001
4	Cd2265	-.0015	-.0011	-.0006	-.0032	.2072	1.018
5	Cr2677	.0084	.0370	.0383	.0253	.2050	1.006
6	Pb2203	.0098	.0254	.0325	.0125	.2085	1.018
7	Se1960	-.0028	-.0031	-.0015	-.0016	.2081	1.028

#	Element	icb	89504	89505	89506	89506d	89506ms
1	Ag3280	-.0010	-.0055	-.0122	-.0012	-.0012	1.054
2	As1890	L-.0115	-.0158	-.0138	-.0171	-.0140	1.015
3	Ba4934	.0002	.5327	.9781	.1668	.1681	1.225
4	Cd2265	.0005	-.0089	-.0194	-.0002	.0001	1.019
5	Cr2677	-.0009	.0746	.0489	.0287	.0290	1.045
6	Pb2203	-.0012	.0421	.0236	.0517	.0488	1.083
7	Se1960	.0002	-.0085	-.0182	.0014	.0035	.9800

#	Element	89506msd	89507	89508	89509	89510	icv 1
1	Ag3280	1.049	-.0026	-.0025	-.0018	-.0024	Q.2306
2	As1890	1.037	-.0150	-.0111	-.0172	.0217	Q.1867
3	Ba4934	1.220	.5522	.2094	.1479	.1048	.2031
4	Cd2265	1.041	-.0025	-.0007	.0001	-.0026	.2066
5	Cr2677	1.068	.0710	.1051	.0074	.0469	.2035
6	Pb2203	1.107	.0542	.0744	.0041	.0320	.2102
7	Se1960	1.001	-.0017	.0034	.0013	-.0018	.2107

#	Element	icv 2	icb	89511	89530	89531	89581
1	Ag3280	1.047	.0037	-.0007	.0345	.1899	-.0016
2	As1890	1.005	L-.0216	-.0162	.0296	.3576	-.0138
3	Ba4934	.9936	.0010	.1496	.4911	.5821	.0134
4	Cd2265	1.015	.0003	-.0004	.0215	.0975	.0004
5	Cr2677	1.001	.0018	.0101	.0631	7.947	.1565
6	Pb2203	1.023	L-.0058	.0022	3.264	46.65	.0123
7	Se1960	1.017	.0040	-.0021	.0281	.0073	.0045

#	Element	89582	89582d	89582ms	89582msd	894':4sd	894'1msa
1	Ag3280	-.0013	-.0013	1.065	1.075	-.0064	.2240
2	As1890	-.0126	-.0118	1.091	1.102	-.1001	.1622
3	Ba4934	.0105	.0105	1.094	1.101	.2182	.4159
4	Cd2265	.0003	.0001	1.073	1.079	.0036	.1923
5	Cr2677	.1696	.1919	1.219	1.231	.0452	.2405
6	Pb2203	.0031	,0046	1.102	1.108	.0785	.2789
7	Se1960	.0039	-.0022	1.074	1.080	.0357	.1962

#	Element	icv 1	icv 2	icb	ss i	ss i low	ics a
1	Ag3280	Q.2324	1.051	-.0013	Q-.0001	-.0010	-.0019
2	As1890	.1913	1.009	L-.0125	Q.0253	Q-.0045	Q-.0194
3	Ba4934	.2041	.9979	.0002	.0410	.0115	.0011
4	Cd2265	.2058	1.018	.0008	Q.0015	.0011	-.0017
5	Cr2677	.2040	1.005	-.0005	.0032	Q.0005	.0000
6	Pb2203	.2090	1.030	.0014	.0094	.0024	.0024
7	Se1960	Q.2167	1.027	H.0054	Q.0481	Q.0120	-.0018

#	Element	ics ab
1	Ag3280	.3188
2	As1890	1.062
3	Ba4934	.3184
4	Cd2265	.3135
5	Cr2677	.3134
6	Pb2203	1.102
7	Se1960	.5605

SDev	.0018	.0040	.007	.0010	.0019
%RSD	1.607	3.776	.6360	.3292	.6124
#1	Q.1106	Q.1105	1.066	.3118	.3119
#2	Q.1094	Q.1039	1.071	.3117	.3082
#3	Q.1129	Q.1033	1.079	.3100	.3097
Errors	QC Fail	QC Fail	QC Pass	QC Pass	QC Pass
Value	1.000	1.000	1.000	.3000	.3000
Range	20.00	20.00	20.00	20.00	20.00

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	36439	--	--	--	--	--	--
SDev	271.3540	--	--	--	--	--	--
%RSD	.7446802	--	--	--	--	--	--
#1	36308	--	--	--	--	--	--
#2	36751	--	--	--	--	--	--
#3	36258	--	--	--	--	--	--

VOA GC/MS CALIBRATION CHECKLIST
SW-846-8260B

DATE / INSTRUMENT: INSTA	METHOD: 8260B
MATRIX: WATER	

Are all standards within expiration dates for both stock and serial standards? Y N NA

Are Tuning results compliant with method? Y N NA

Are all Initial Calibration RSDs compliant for CCCs and non-CCC compounds? Y N NA

If RSDs are non-compliant, was initial calibration curve constructed using one of the alternative methods from method 8000B? (List analytes below) Y N NA

Is the runlog completely filled out (including review signature/date)? Y N NA

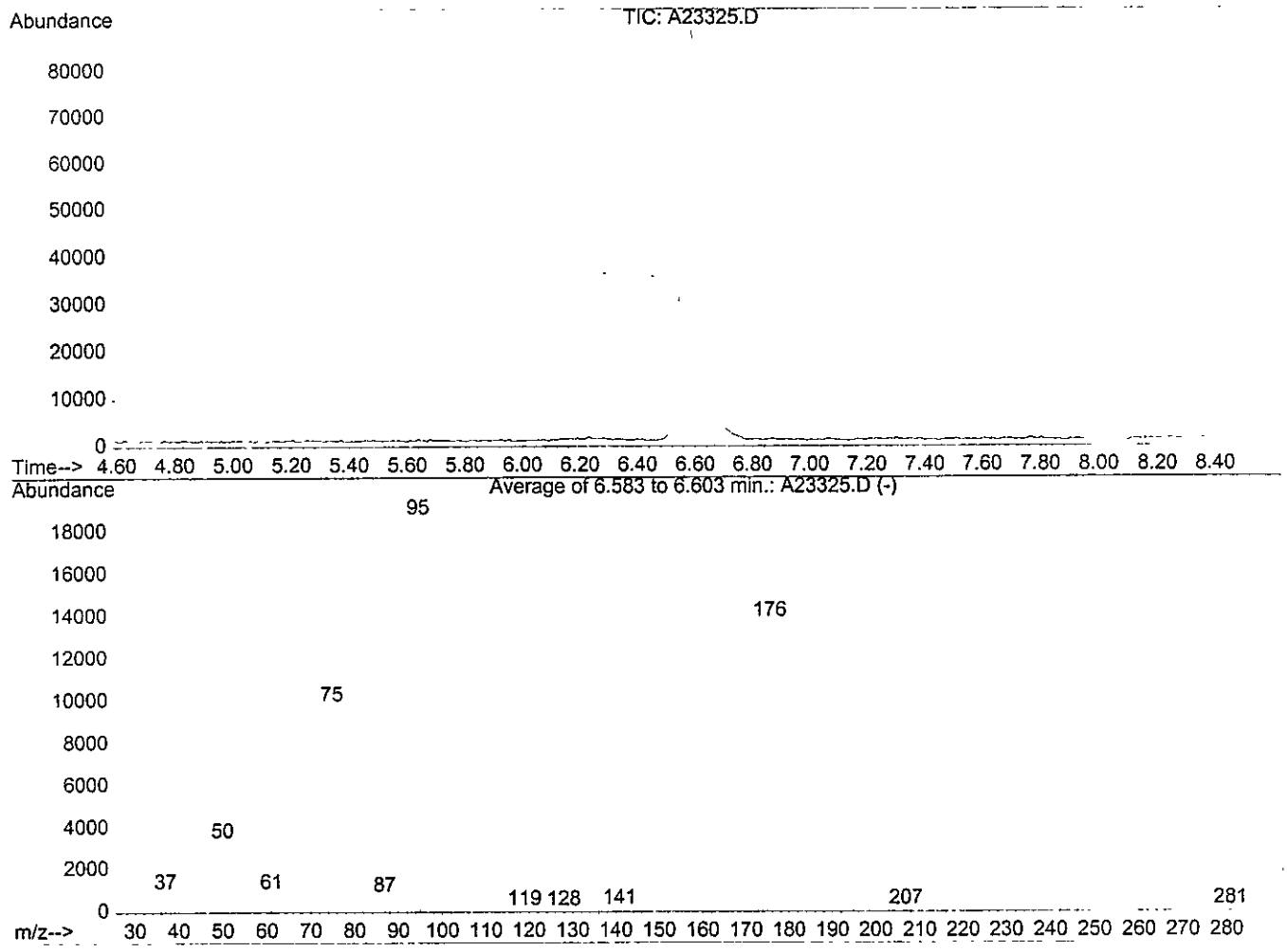
Are all mistakes single lined, initialled, and dated? Y N NA

Analyst: Thomas A. Dated	Reviewer: [illegible]
Date: 3/9/2000 Time: 9:44	Date: 3/13/00 Time: 11:15

BFB

Data File : C:\HPCHEM\1\DATA\030800\A23325.D
Acq On : 8 Mar 2000 6:49 pm
Sample : BFB 50ng (V99050)
Misc : QC
MS Integration Params: rteint.p
Method : C:\HPCHEM\1\METHODS\BFB01.M (RTE Integrator)
Title :

Vial: 1
Operator: KJ,TAG
Inst : GC/MS Ins
Multiplr: 1.00



AutoFind: Scans 261, 262, 263; Background Corrected with Scan 249

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	17.8	3313	PASS
75	95	30	60	52.5	9769	PASS
95	95	100	100	100.0	18621	PASS
96	95	5	9	7.3	1366	PASS
173	174	0.00	2	0.9	118	PASS
174	95	50	100	73.7	13727	PASS
175	174	5	9	7.4	1019	PASS
176	174	95	101	100.0	13728	PASS
177	176	5	9	7.0	960	PASS

A23325.D BFB01.M Wed Mar 08 18:58:43 2000 BONEHEAD

Response Factor Report GC/MS Ins

Method : C:\HPCHEM\1\DATA\030800\030800W.M (RTE Integrator)
Title : 8260 CALIBRATION FOR WATER 2/24/2000
Last Update : Wed Mar 08 23:00:18 2000
Response via : Initial Calibration

Calibration Files
2 =A23329.D 5 =A23328.D 20 =A23327.D
50 =A23326.D 100 =A23330.D 200 =A23331.D

		Compound	2	5	20	50	100	200	Avg	%RSD
1)	I	Pentafluorobenzene	ISTD							
2)	T	Dichlorodifluoromet		0.337	0.347	0.321	0.340	0.308	0.331	4.75
3)	TP	Chloromethane		0.222	0.208	0.175	0.207	0.203	0.203	8.63
4)	TC	Vinyl Chloride	0.194	0.221	0.228	0.213	0.227	0.206	0.215	6.21
5)	T	Bromomethane		0.220	0.172	0.150	0.132	0.128	0.160	23.35
6)	T	Chloroethane		0.129	0.139	0.119	0.077	0.068	0.106	30.05
7)	T	Trichlorofluorometh		0.687	0.719	0.669	0.716	0.492	0.657	14.37
8)	T	Acrolein		0.014	0.017	0.009	0.016	0.013	0.014	21.61
9)	T	Acrylonitrile		0.050	0.055	0.045	0.052	0.047	0.050	7.93
10)	TMC	1,1-Dichloroethene		0.286	0.298	0.270	0.290	0.269	0.282	4.46
11)	T	Acetone		0.020	0.022	0.027	0.018	0.016	0.021	20.00
12)		Iodomethane		0.417	0.478	0.505	0.485	0.396	0.456	10.37
13)		Allylchloride		0.128	0.135	0.126	0.125	0.120	0.127	4.11
14)		Carbon Disulfide		0.631	0.672	0.612	0.646	0.602	0.632	4.41
15)		Acetonitrile		0.047	0.049	0.045	0.048	0.043	0.046	5.07
16)		Methylene Chloride		0.276	0.282	0.264	0.279	0.268	0.274	2.84
17)		trans-1,2-Dichloroe		0.309	0.320	0.300	0.309	0.289	0.305	3.73
18)		MethylTertButylEthe		0.712	0.761	0.651	0.717	0.654	0.699	6.63
19)	P	1,1-Dichloroethane		0.518	0.547	0.507	0.547	0.517	0.527	3.53
20)		Vinyl Acetate		0.142	0.154	0.144	0.168	0.160	0.154	7.06
21)		2,2-Dichloropropane		0.483	0.520	0.496	0.438	0.424	0.472	8.52
22)		cis-1,2-Dichloroeth		0.339	0.351	0.330	0.335	0.320	0.335	3.41
23)		2-Butanone		0.019	0.027	0.029	0.026	0.025	0.025	15.81
24)		Propionitrile		0.020	0.021	0.016	0.020	0.019	0.019	9.94
25)		Methacrylonitrile		0.112	0.117	0.094	0.103	0.092	0.104	10.57
26)		Bromochloromethane		0.203	0.210	0.197	0.206	0.194	0.202	3.38
27)	C	Chloroform		0.683	0.721	0.674	0.692	0.663	0.687	3.20
28)		1,1,1-Trichloroetha		0.635	0.702	0.661	0.670	0.644	0.662	3.98
29)		Carbon Tetrachlorid		0.508	0.595	0.594	0.572	0.503	0.554	8.25
30)		1,4-Dioxane		0.003	0.002	0.002	0.003	0.002	0.002	16.69
31)		1,1-Dichloropropene		0.504	0.522	0.490	0.500	0.479	0.499	3.21
32)	S	1,2-Dichloroethane-		0.416	0.441	0.384	0.405	0.365	0.402	7.30
33)	M	Benzene		0.837	0.905	0.834	0.872	0.826	0.855	3.91
34)		Isobutyl alcohol		0.008	0.007	0.005	0.007	0.007	0.007	15.79
35)		1,2-Dichloroethane		0.441	0.455	0.414	0.429	0.389	0.426	6.02
36)	M	Trichloroethene		0.508	0.517	0.464	0.470	0.439	0.480	6.73
37)	C	1,2-Dichloropropane		0.329	0.356	0.336	0.362	0.333	0.343	4.35
38)		Dibromomethane		0.276	0.276	0.255	0.257	0.199	0.253	12.53
39)		Methylmethacrylate		0.197	0.200	0.176	0.197	0.156	0.185	10.17
40)		Bromodichloromethan		0.643	0.717	0.674	0.658	0.516	0.641	11.78
41)		2-Nitropropane		0.165	0.179	0.176	0.176	0.142	0.168	9.11
42)		2-Chloroethyl-vinyl		0.006	0.032	0.034	0.045	0.043	0.032	48.29

(#) = Out of Range

Response Factor Report GC/MS Ins

Method : C:\HPCHEM\1\DATA\030800\030800W.M (RTE Integrator)
Title : 8260 CALIBRATION FOR WATER 2/24/2000
Last Update : Wed Mar 08 23:00:18 2000
Response via : Initial Calibration

Calibration Files
2 =A23329.D 5 =A23328.D 20 =A23327.D
50 =A23326.D 100 =A23330.D 200 =A23331.D

		Compound	2	5	20	50	100	200	Avg	%RSD
43)		cis-1,3-Dichloropro	0.457	0.520	0.493	0.504	0.418		0.478	8.55
44)		4-Methyl-2-Pentanon	0.042	0.048	0.042	0.047	0.039		0.044	9.22
45)	I	Chlorobenzene-d5	ISTD							
46)	S	Toluene-d8	1.201	1.267	1.157	1.142	1.061		1.165	6.54
47)	MC	Toluene	0.700	0.752	0.708	0.709	0.668		0.707	4.25
48)		trans-1,3-Dichlorop	0.477	0.523	0.508	0.515	0.509		0.506	3.47
49)		Ethylmethacrylate	0.471	0.504	0.452	0.491	0.465		0.477	4.37
50)		1,1,2-Trichloroetha	0.326	0.342	0.310	0.320	0.301		0.320	4.89
51)		Tetrachloroethene	0.523	0.565	0.537	0.504	0.465		0.519	7.18
52)		1,3-Dichloropropane	0.591	0.604	0.555	0.567	0.532		0.570	5.09
53)		2-Hexanone	0.193	0.207	0.208	0.202	0.190		0.200	4.22
54)		Dibromochloromethan	0.627	0.692	0.650	0.654	0.636		0.652	3.85
55)		1,2-Dibromoethane	0.503	0.557	0.515	0.519	0.491		0.517	4.75
56)	MP	Chlorobenzene	0.965	1.003	0.961	0.936	0.880		0.949	4.80
57)		1,1,1,2-Tetrachloro	0.521	0.552	0.546	0.527	0.498		0.529	4.10
58)	C	Ethylbenzene	1.517	1.562	1.497	1.470	1.369		1.483	4.85
59)	G	total-Xylene	0.544	0.572	0.557	0.537	0.495		0.541	5.33
60)		Styrene	0.924	0.990	0.953	0.917	0.849		0.927	5.62
61)	I	1,4-Dichlorobenzene-d	ISTD							
62)	P	Bromoform	0.689	0.784	0.744	0.761	0.759		0.747	4.76
63)		Isopropylbenzene	2.492	2.609	2.508	2.441	2.426		2.495	2.89
64)		1,4-dichloro-2-Bute	0.103	0.123	0.099	0.123	0.155		0.121	18.50
65)	S	Bromofluorobenzene	1.305	1.336	1.213	1.232	1.217		1.260	4.47
66)		Bromobenzene	0.872	0.894	0.833	0.846	0.824		0.854	3.36
67)	P	1,1,2,2-Tetrachloro	0.908	0.895	0.788	0.830	0.795		0.843	6.59
68)		1,2,3-Trichloroprop	0.777	0.780	0.688	0.743	0.751		0.748	4.95
69)		n-Propylbenzene	2.746	3.078	2.886	2.891	2.948		2.910	4.12
70)		2-Chlorotoluene	1.863	1.776	1.731	1.771	1.697		1.768	3.52
71)		4-Chlorotoluene	2.379	2.423	2.338	2.285	2.264		2.338	2.80
72)		1,3,5-Trimethylbenz	2.277	2.290	2.199	2.152	2.077		2.199	4.04
73)		Pentachloroethane	0.456	0.543	0.565	0.579	0.588		0.546	9.78
74)		tert-Butylbenzene	2.632	2.784	2.668	2.588	2.502		2.635	3.94
75)		1,2,4-Trimethylbenz	2.307	2.390	2.252	2.176	2.115		2.248	4.79
76)		sec-Butylbenzene	3.062	3.124	3.020	2.922	2.891		3.004	3.22
77)		1,3-Dichlorobenzene	1.442	1.488	1.409	1.366	1.331		1.407	4.39
78)		Isopropyltoluene	2.615	2.638	2.531	2.428	2.310		2.504	5.45
79)		1,4-Dichlorobenzene	1.619	1.574	1.479	1.432	1.320		1.485	7.97
80)		1,2-Dichlorobenzene	1.174	1.444	1.315	1.283	1.217		1.287	8.08
81)		n-Butylbenzene	2.128	2.576	2.414	2.418	2.361		2.379	6.80
82)		1,2-Dibromo-3-chlor	0.229	0.249	0.203	0.233	0.236		0.230	7.40
83)		1,2,4-trichlorobenz	1.209	1.331	1.174	1.198	1.182		1.219	5.26

(#) = Out of Range

Method : C:\HPCHEM\1\DATA\030800\030800W.M (RTE Integrator)
Title : 8260 CALIBRATION FOR WATER 2/24/2000
Last Update : Wed Mar 08 23:00:18 2000
Response via : Initial Calibration

Calibration Files
2 =A23329.D 5 =A23328.D 20 =A23327.D
50 =A23326.D 100 =A23330.D 200 =A23331.D

	Compound	2	5	20	50	100	200	Avg	%RSD
84)	Hexachlorobutadiene		0.910	1.095	1.008	0.969	0.914	0.979	7.82
85)	Naphthalene		2.249	2.055	1.500	1.580	1.565	1.790	18.92
86)	1,2,3-Trichlorobenz		1.159	1.230	1.022	1.053	1.045	1.102	8.07

(#) = Out of Range

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\030800\A23326.D Vial: 1
Acq On : 8 Mar 2000 7:07 pm Operator: KJ,TAG
Sample : ICAL 50ppb (V00018,V00002) Inst : GC/MS Ins
Misc : QC Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Mar 8 19:32 2000 Quant Results File: 030800W.RES

Quant Method : C:\HPCHEM\1\DATA\030800\030800W.M (RTE Integrator)
Title : 8260 CALIBRATION FOR WATER 2/24/2000
Last Update : Mon Feb 28 12:17:07 2000
Response via : Initial Calibration
DataAcq Meth : 030800W

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Pentafluorobenzene	7.04	168	566550	50.00	ug\L		0.00
45) Chlorobenzene-d5	13.49	117	479363	50.00	ug\L		0.00
61) 1,4-Dichlorobenzene-d4	17.73	152	318824	50.00	ug\L		0.02
System Monitoring Compounds							
32) 1,2-Dichloroethane-d4	7.48	65	217297	39.64	ug\L		-0.01
Spiked Amount 50.000	Range 80 - 120		Recovery = 79.28%#				
46) Toluene-d8	10.93	98	554582	50.26	ug\L		0.00
Spiked Amount 50.000	Range 87 - 104		Recovery = 100.52%				
65) Bromofluorobenzene	15.63	95	386587	42.30	ug\L		0.00
Spiked Amount 50.000	Range 84 - 110		Recovery = 84.60%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.72	85	182093	65.82	ug\L		99
3) Chloromethane	1.89	50	98895	76.70	ug\L		99
4) Vinyl Chloride	2.00	62	120882	64.17	ug\L		100
5) Bromomethane	2.30	94	85008	37.78	ug\L		97
6) Chloroethane	2.41	64	67606	61.33	ug\L		99
7) Trichlorofluoromethane	2.69	101	379273	43.59	ug\L	#	100
8) Acrolein	3.15	56	10547	58.41	ug\L	#	48
9) Acrylonitrile	4.22	53	51029	93.55	ug\L		98
10) 1,1-Dichloroethene	3.26	96	152831	48.68	ug\L		97
11) Acetone	3.32	58	15264	79.54	ug\L		94
12) Iodomethane	3.45	142	286309	40.94	ug\L		99
13) Allylchloride	3.70	76	71544	50.32	ug\L		95
14) Carbon Disulfide	3.51	76	346664	44.64	ug\L		100
15) Acetonitrile	3.70	41	252689	524.56	ug\L		96
16) Methylene Chloride	3.87	84	149380	44.28	ug\L		98
17) trans-1,2-Dichloroethene	4.27	96	170061	48.78	ug\L		98
18) MethylTertButylEther	4.30	73	369054	41.10	ug\L		96
19) 1,1-Dichloroethane	4.93	63	287302	49.66	ug\L		98
20) Vinyl Acetate	5.09	43	81433	38.57	ug\L		100
21) 2,2-Dichloropropane	5.97	77	280800	38.83	ug\L		99
22) cis-1,2-Dichloroethene	5.98	96	186761	50.68	ug\L		99
23) 2-Butanone	6.05	72	9733	34.91	ug\L	#	48
24) Propionitrile	6.16	54	89895	470.10	ug\L	#	95
25) Methacrylonitrile	6.44	41	530441	465.08	ug\L		96
26) Bromochloromethane	6.43	128	111476	51.42	ug\L	#	82
27) Chloroform	6.61	83	382100	46.15	ug\L		100
28) 1,1,1-Trichloroethane	6.89	97	374528	42.51	ug\L		97

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

Data File : C:\HPCHEM\1\DATA\030800\A23326.D Vial: 1
Acq On : 8 Mar 2000 7:07 pm Operator: KJ,TAG
Sample : ICAL 50ppb (V00018,V00002) Inst : GC/MS Ins
Misc : QC Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Mar 8 19:32 2000 Quant Results File: 030800W.RES

Quant Method : C:\HPCHEM\1\DATA\030800\030800W.M (RTE Integrator)
Title : 8260 CALIBRATION FOR WATER 2/24/2000
Last Update : Mon Feb 28 12:17:07 2000
Response via : Initial Calibration
DataAcq Meth : 030800W

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
29)	Carbon Tetrachloride	7.18	117	336460	42.92	ug\L		100
30)	1,4-Dioxane	9.47	88	19754	757.21	ug\L		95
31)	1,1-Dichloropropene	7.20	75	277716	48.63	ug\L		99
33)	Benzene	7.57	78	472404	52.51	ug\L		100
34)	Isobutyl alcohol	7.64	43	57201	717.26	ug\L		94
35)	1,2-Dichloroethane	7.62	62	234707	42.17	ug\L		96
36)	Trichloroethene	8.76	95	263128	47.58	ug\L		94
37)	1,2-Dichloropropane	9.13	63	190401	54.87	ug\L		99
38)	Dibromomethane	9.36	93	144383	43.60	ug\L	#	85
39)	Methylmethacrylate	9.46	69	99986	44.70	ug\L		98
40)	Bromodichloromethane	9.68	83	381694	43.94	ug\L		98
41)	2-Nitropropane	12.30	43	99837	50.60	ug\L		100
42)	2-Chloroethyl-vinyl ether	10.27	63	19404	18.85	ug\L		95
43)	cis-1,3-Dichloropropene	10.48	75	279481	48.17	ug\L		96
44)	4-Methyl-2-Pentanone	10.80	85	23823	39.12	ug\L	#	76
47)	Toluene	11.06	92	339351	50.12	ug\L		100
48)	trans-1,3-Dichloropropene	11.49	75	243407	44.63	ug\L		99
49)	Ethylmethacrylate	11.73	69	216612	43.83	ug\L	#	95
50)	1,1,2-Trichloroethane	11.80	83	148443	48.27	ug\L		99
51)	Tetrachloroethene	12.01	164	257617	53.83	ug\L		97
52)	1,3-Dichloropropane	12.08	76	265817	47.72	ug\L		100
53)	2-Hexanone	12.30	43	99837	51.01	ug\L		97
54)	Dibromochloromethane	12.49	129	311368	44.62	ug\L		99
55)	1,2-Dibromoethane	12.64	107	246835	47.57	ug\L	#	100
56)	Chlorobenzene	13.54	112	460574	51.99	ug\L		99
57)	1,1,1,2-Tetrachloroethane	13.70	131	261960	48.72	ug\L		96
58)	Ethylbenzene	13.77	91	717654	48.57	ug\L		100
59)	total-Xylene	13.99	106	800832m	153.59	ug\L		
60)	Styrene	14.72	104	456684	50.72	ug\L		88
62)	Bromoform	15.02	173	237112	45.02	ug\L	#	98
63)	Isopropylbenzene	15.38	105	799526	49.09	ug\L		99
64)	1,4-dichloro-2-Butene	15.51	75	31503	32.58	ug\L	#	59
66)	Bromobenzene	15.87	156	265722	50.41	ug\L		81
67)	1,1,2,2-Tetrachloroethane	15.96	83	251217	45.22	ug\L	#	99
68)	1,2,3-Trichloropropane	16.00	75	219463	41.23	ug\L	#	100
69)	n-Propylbenzene	16.12	91	920281	47.78	ug\L		95
70)	2-Chlorotoluene	16.24	91	551958	39.92	ug\L		99
71)	4-Chlorotoluene	16.45	91	745356	46.94	ug\L		99
72)	1,3,5-Trimethylbenzene	16.47	105	701232	47.59	ug\L		98
73)	Pentachloroethane	17.06	167	180159	46.43	ug\L		97

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

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\030800\A23326.D Vial: 1
Acq On : 8 Mar 2000 7:07 pm Operator: KJ,TAG
Sample : ICAL 50ppb (V00018,V00002) Inst : GC/MS Ins
Misc : QC Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Mar 8 19:32 2000 Quant Results File: 030800W.RES

Quant Method : C:\HPCHEM\1\DATA\030800\030800W.M (RTE Integrator)
Title : 8260 CALIBRATION FOR WATER 2/24/2000
Last Update : Mon Feb 28 12:17:07 2000
Response via : Initial Calibration
DataAcq Meth : 030800W

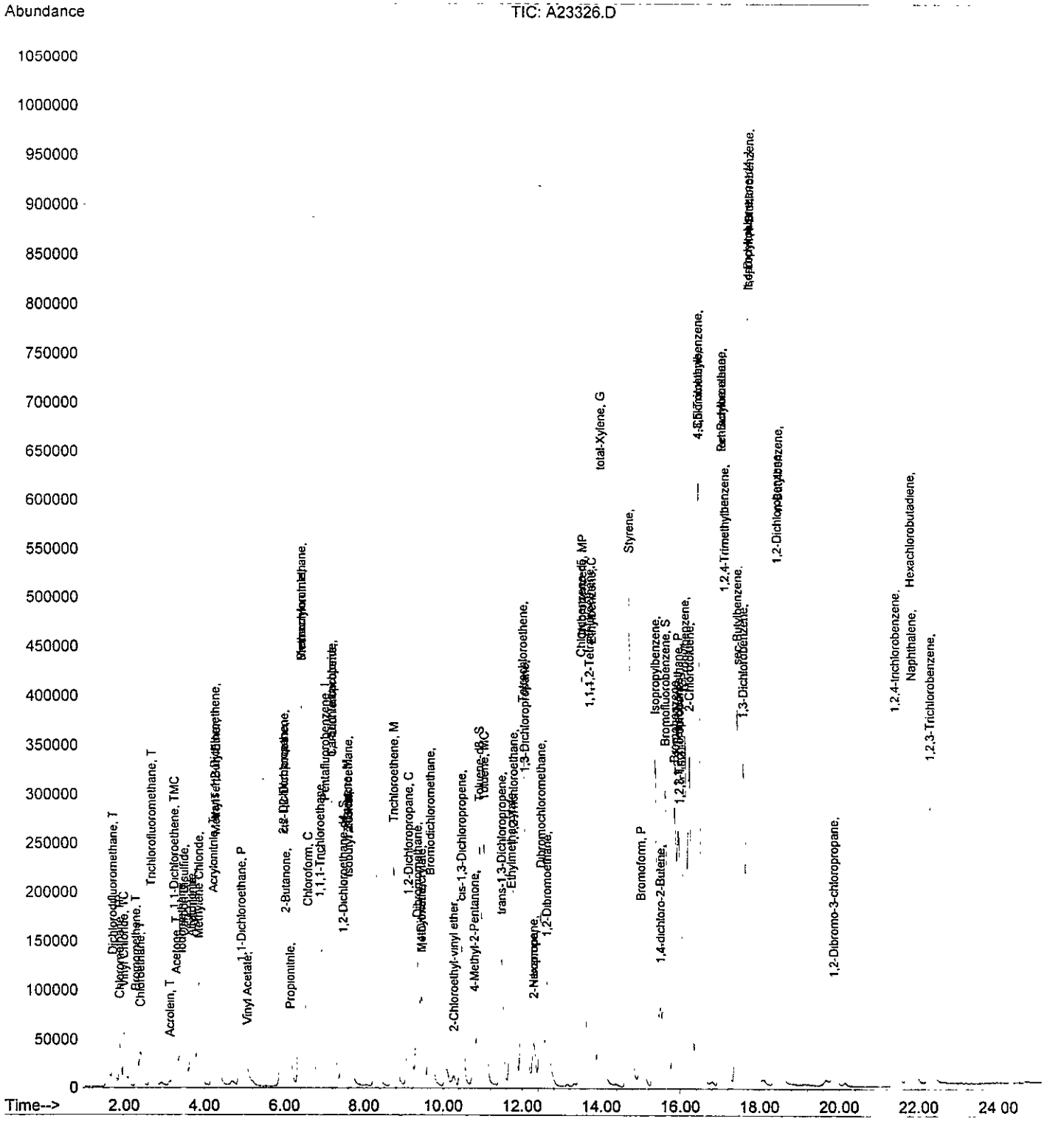
Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
74) tert-Butylbenzene	17.05	119	850546	48.47	ug\L	100
75) 1,2,4-Trimethylbenzene	17.14	105	717932	47.60	ug\L	98
76) sec-Butylbenzene	17.45	105	962918	49.15	ug\L	96
77) 1,3-Dichlorobenzene	17.61	146	449268	50.64	ug\L	100
78) Isopropyltoluene	17.74	119	807017	48.85	ug\L	98
79) 1,4-Dichlorobenzene	17.78	146	471628	50.30	ug\L	98
80) 1,2-Dichlorobenzene	18.44	146	419322	51.32	ug\L	99
81) n-Butylbenzene	18.49	91	769557	47.34	ug\L	94
82) 1,2-Dibromo-3-chloropropan	19.88	75	64584	32.61	ug\L	92
83) 1,2,4-trichlorobenzene	21.41	180	374379	44.87	ug\L	100
84) Hexachlorobutadiene	21.77	225	321239	47.81	ug\L	100
85) Naphthalene	21.83	128	478248	41.71	ug\L	100
86) 1,2,3-Trichlorobenzene	22.29	180	325916	41.39	ug\L	98

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

Quantitation Report

Data File : C:\HPCHEM\1\DATA\030800\A23326.D Vial: 1
Acq On : 8 Mar 2000 7:07 pm Operator: KJ,TAG
Sample : ICAL 50ppb (V00018,V00002) Inst : GC/MS Ins
Misc : QC Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Mar 8 19:32 2000 Quant Results File: 030800W.RES

Method : C:\HPCHEM\1\DATA\030800\030800W.M (RTE Integrator)
Title : 8260 CALIBRATION FOR WATER 2/24/2000
Last Update : Fri Feb 25 01:01:24 2000
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\030800\A23327.D Vial: 2
Acq On : 8 Mar 2000 7:39 pm Operator: KJ,TAG
Sample : ICAL 20ppb (V00018,V00002) Inst : GC/MS Ins
Misc : QC Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Mar 8 20:04 2000 Quant Results File: 030800W.RES

Quant Method : C:\HPCHEM\1\DATA\030800\030800W.M (RTE Integrator)
Title : 8260 CALIBRATION FOR WATER 2/24/2000
Last Update : Mon Feb 28 12:17:07 2000
Response via : Initial Calibration
DataAcq Meth : 030800W

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Pentafluorobenzene	7.03	168	554444	50.00	ug\L		0.00
45) Chlorobenzene-d5	13.49	117	478259	50.00	ug\L		0.00
61) 1,4-Dichlorobenzene-d4	17.73	152	318501	50.00	ug\L		0.02
System Monitoring Compounds							
32) 1,2-Dichloroethane-d4	7.47	65	97911	18.25	ug\L		-0.02
Spiked Amount 50.000	Range 80 - 120		Recovery = 36.50%#				
46) Toluene-d8	10.93	98	242425	20.49	ug\L		0.00
Spiked Amount 50.000	Range 87 - 104		Recovery = 40.98%#				
65) Bromofluorobenzene	15.62	95	170204	18.64	ug\L		0.00
Spiked Amount 50.000	Range 84 - 110		Recovery = 37.28%#				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.72	85	76994	28.44	ug\L		99
3) Chloromethane	1.89	50	46230	36.64	ug\L		99
4) Vinyl Chloride	2.00	62	50548	27.42	ug\L		96
5) Bromomethane	2.31	94	38168	10.31	ug\L		99
6) Chloroethane	2.41	64	30750	28.50	ug\L		99
7) Trichlorofluoromethane	2.69	101	159478	6.76	ug\L	#	100
8) Acrolein	3.14	56	7608	43.03	ug\L	#	47
9) Acrylonitrile	4.22	53	24376	45.67	ug\L	#	87
10) 1,1-Dichloroethene	3.26	96	66008	21.49	ug\L		97
11) Acetone	3.31	58	4976	17.94	ug\L		95
12) Iodomethane	3.44	142	106038	11.46	ug\L		99
13) Allylchloride	3.70	76	29860	21.46	ug\L	#	93
14) Carbon Disulfide	3.50	76	149051	19.61	ug\L		100
15) Acetonitrile	3.70	41	108447	230.04	ug\L		94
16) Methylene Chloride	3.86	84	62644	14.35	ug\L		99
17) trans-1,2-Dichloroethene	4.26	96	70892	20.78	ug\L		96
18) MethylTertButylEther	4.27	73	168691	19.19	ug\L		95
19) 1,1-Dichloroethane	4.93	63	121222	21.41	ug\L		99
20) Vinyl Acetate	5.08	43	34096	16.50	ug\L	#	86
21) 2,2-Dichloropropane	5.96	77	115319	16.29	ug\L		99
22) cis-1,2-Dichloroethene	5.99	96	77863	21.59	ug\L		99
23) 2-Butanone	6.05	72	6063	22.22	ug\L	#	75
24) Propionitrile	6.14	54	45760	244.52	ug\L	#	95
25) Methacrylonitrile	6.42	41	259740	232.71	ug\L		97
26) Bromochloromethane	6.41	128	46658	21.99	ug\L		84
27) Chloroform	6.60	83	159989	19.75	ug\L		99
28) 1,1,1-Trichloroethane	6.88	97	155770	18.07	ug\L	#	56

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

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\030800\A23327.D Vial: 2
Acq On : 8 Mar 2000 7:39 pm Operator: KJ,TAG
Sample : ICAL 20ppb (V00018,V00002) Inst : GC/MS Ins
Misc : QC Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Mar 8 20:04 2000 Quant Results File: 030800W.RES

Quant Method : C:\HPCHEM\1\DATA\030800\030800W.M (RTE Integrator)
Title : 8260 CALIBRATION FOR WATER 2/24/2000
Last Update : Mon Feb 28 12:17:07 2000
Response via : Initial Calibration
DataAcq Meth : 030800W

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
29)	Carbon Tetrachloride	7.20	117	131897	17.19	ug\L		98
30)	1,4-Dioxane	9.45	88	10540	472.82	ug\L	#	62
31)	1,1-Dichloropropene	7.19	75	115776	20.72	ug\L		97
33)	Benzene	7.56	78	200805	22.81	ug\L		100
34)	Isobutyl alcohol	7.65	43	29784	381.63	ug\L	#	16
35)	1,2-Dichloroethane	7.61	62	100872	18.52	ug\L	#	93
36)	Trichloroethene	8.76	95	114573	21.17	ug\L		95
37)	1,2-Dichloropropane	9.13	63	78928	23.24	ug\L		100
38)	Dibromomethane	9.36	93	61148	18.87	ug\L	#	87
39)	Methylmethacrylate	9.47	69	44427	20.29	ug\L		94
40)	Bromodichloromethane	9.68	83	159021	18.71	ug\L	#	96
41)	2-Nitropropane	12.30	43	39652	20.54	ug\L	#	91
42)	2-Chloroethyl-vinyl ether	10.27	63	7140	7.11	ug\L	#	82
43)	cis-1,3-Dichloropropene	10.48	75	115319	20.31	ug\L		97
44)	4-Methyl-2-Pentanone	10.81	85	10695	17.95	ug\L	#	88
47)	Toluene	11.05	92	143833	21.29	ug\L		99
48)	trans-1,3-Dichloropropene	11.48	75	99960	18.37	ug\L		98
49)	Ethylmethacrylate	11.74	69	96448	19.56	ug\L	#	97
50)	1,1,2-Trichloroethane	11.80	83	65430	21.33	ug\L		99
51)	Tetrachloroethene	12.02	164	108011	22.62	ug\L		98
52)	1,3-Dichloropropane	12.07	76	115614	20.80	ug\L		99
53)	2-Hexanone	12.30	43	39652	20.31	ug\L		97
54)	Dibromochloromethane	12.49	129	132440	19.02	ug\L		96
55)	1,2-Dibromoethane	12.63	107	106463	20.56	ug\L		99
56)	Chlorobenzene	13.54	112	191952	21.72	ug\L		97
57)	1,1,1,2-Tetrachloroethane	13.72	131	105565	19.68	ug\L		96
58)	Ethylbenzene	13.76	91	298816	20.27	ug\L		100
59)	total-Xylene	13.99	106	328426m	63.13	ug\L		
60)	Styrene	14.72	104	189425	21.09	ug\L		88
62)	Bromoform	15.01	173	99863	18.98	ug\L		99
63)	Isopropylbenzene	15.38	105	332391	20.43	ug\L		99
64)	1,4-dichloro-2-Butene	15.52	75	15617	16.17	ug\L	#	87
66)	Bromobenzene	15.86	156	113903	21.63	ug\L		82
67)	1,1,2,2-Tetrachloroethane	15.95	83	113985	20.54	ug\L	#	99
68)	1,2,3-Trichloropropane	16.00	75	99426	18.70	ug\L	#	100
69)	n-Propylbenzene	16.14	91	392156	20.38	ug\L		97
70)	2-Chlorotoluene	16.23	91	226235	16.38	ug\L		99
71)	4-Chlorotoluene	16.44	91	308751	19.46	ug\L		99
72)	1,3,5-Trimethylbenzene	16.47	105	291778	19.82	ug\L		98
73)	Pentachloroethane	17.05	167	69223	17.86	ug\L		97

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

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\030800\A23327.D Vial: 2
Acq On : 8 Mar 2000 7:39 pm Operator: KJ,TAG
Sample : ICAL 20ppb (V00018,V00002) Inst : GC/MS Ins
Misc : QC Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Mar 8 20:04 2000 Quant Results File: 030800W.RES

Quant Method : C:\HPCHEM\1\DATA\030800\030800W.M (RTE Integrator)
Title : 8260 CALIBRATION FOR WATER 2/24/2000
Last Update : Mon Feb 28 12:17:07 2000
Response via : Initial Calibration
DataAcq Meth : 030800W

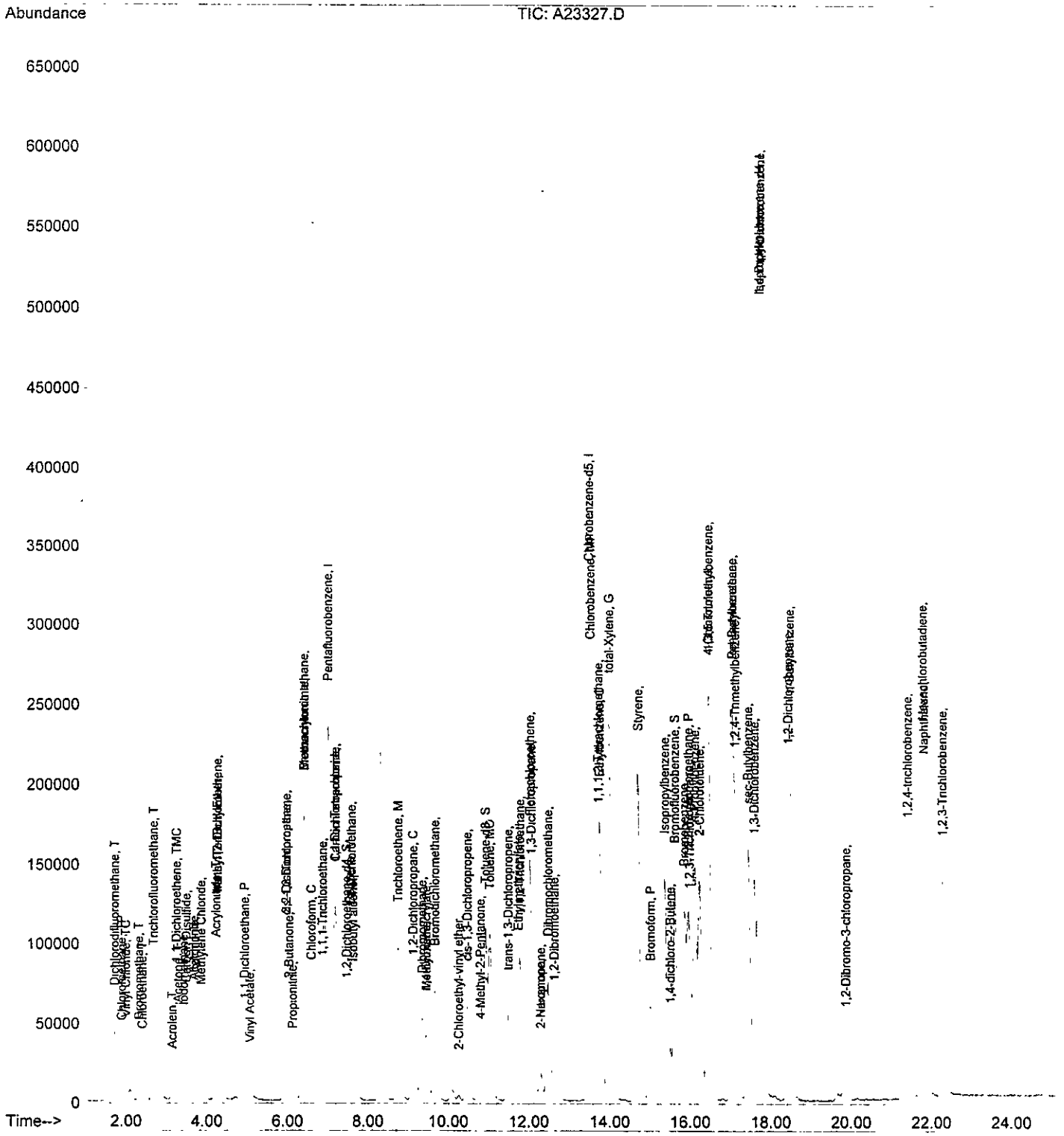
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
74)	tert-Butylbenzene	17.04	119	354695	20.23	ug\L	100
75)	1,2,4-Trimethylbenzene	17.13	105	304427	20.21	ug\L	98
76)	sec-Butylbenzene	17.45	105	398011	20.34	ug\L	96
77)	1,3-Dichlorobenzene	17.60	146	189568	21.39	ug\L	99
78)	Isopropyltoluene	17.74	119	336092	20.36	ug\L	99
79)	1,4-Dichlorobenzene	17.77	146	200585	21.42	ug\L	96
80)	1,2-Dichlorobenzene	18.43	146	183996	22.54	ug\L	100
81)	n-Butylbenzene	18.49	91	328188	20.21	ug\L	95
82)	1,2-Dibromo-3-chloropropan	19.87	75	31720	16.03	ug\L	96
83)	1,2,4-trichlorobenzene	21.40	180	169579	20.34	ug\L	100
84)	Hexachlorobutadiene	21.77	225	139560	20.79	ug\L	100
85)	Naphthalene	21.82	128	261750	21.14	ug\L	100
86)	1,2,3-Trichlorobenzene	22.28	180	156758	19.93	ug\L	99

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

Quantitation Report

Data File : C:\HPCHEM\1\DATA\030800\A23327.D Vial: 2
Acq On : 8 Mar 2000 7:39 pm Operator: KJ,TAG
Sample : ICAL 20ppb (V00018,V00002) Inst : GC/MS Ins
Misc : QC Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Mar 8 20:04 2000 Quant Results File: 030800W.RES

Method : C:\HPCHEM\1\DATA\030800\030800W.M (RTE Integrator)
Title : 8260 CALIBRATION FOR WATER 2/24/2000
Last Update : Fri Feb 25 01:01:24 2000
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\030800\A23328.D Vial: 3
Acq On : 8 Mar 2000 8:10 pm Operator: KJ,TAG
Sample : ICAL 5ppb (V00018,V00002) Inst : GC/MS Ins
Misc : QC Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Mar 8 20:36 2000 Quant Results File: 030800W.RES

Quant Method : C:\HPCHEM\1\DATA\030800\030800W.M (RTE Integrator)
Title : 8260 CALIBRATION FOR WATER 2/24/2000
Last Update : Mon Feb 28 12:17:07 2000
Response via : Initial Calibration
DataAcq Meth : 030800W

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Pentafluorobenzene	7.02	168	547555	50.00	ug\L		0.00
45) Chlorobenzene-d5	13.48	117	468525	50.00	ug\L		0.00
61) 1,4-Dichlorobenzene-d4	17.73	152	314043	50.00	ug\L		0.02
System Monitoring Compounds							
32) 1,2-Dichloroethane-d4	7.46	65	22778	4.30	ug\L		-0.03
Spiked Amount 50.000	Range 80 - 120		Recovery = 8.60%#				
46) Toluene-d8	10.94	98	56274	2.77	ug\L		0.01
Spiked Amount 50.000	Range 87 - 104		Recovery = 5.54%#				
65) Bromofluorobenzene	15.63	95	40982	4.55	ug\L		0.00
Spiked Amount 50.000	Range 84 - 110		Recovery = 9.10%#				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.73	85	18477	6.91	ug\L		94
3) Chloromethane	1.90	50	12177	9.77	ug\L		97
4) Vinyl Chloride	2.00	62	12123	6.66	ug\L		94
5) Bromomethane	2.32	94	12034	-5.54	ug\L		98
6) Chloroethane	2.42	64	7063	6.63	ug\L		98
7) Trichlorofluoromethane	2.68	101	37610	-14.36	ug\L	#	100
8) Acrolein	3.14	56	1551	8.80	ug\L	#	31
9) Acrylonitrile	4.23	53	5422	10.29	ug\L	#	85
10) 1,1-Dichloroethene	3.25	96	15650	5.16	ug\L		96
11) Acetone	3.33	58	1094	-5.97	ug\L	#	54
12) Iodomethane	3.43	142	22810	-2.57	ug\L		94
13) Allylchloride	3.71	76	6987	5.08	ug\L		95
14) Carbon Disulfide	3.51	76	34543	4.60	ug\L		99
15) Acetonitrile	3.70	41	25709	55.22	ug\L	#	92
16) Methylene Chloride	3.86	84	15119	-2.61	ug\L		99
17) trans-1,2-Dichloroethene	4.27	96	16939	5.03	ug\L		98
18) MethylTertButylEther	4.29	73	38978	4.49	ug\L	#	72
19) 1,1-Dichloroethane	4.92	63	28343	5.07	ug\L	#	53
20) Vinyl Acetate	5.06	43	7796	3.82	ug\L	#	82
21) 2,2-Dichloropropane	5.97	77	26457	3.79	ug\L		93
22) cis-1,2-Dichloroethene	6.00	96	18563	5.21	ug\L		97
23) 2-Butanone	6.08	72	476	1.77	ug\L	#	48
24) Propionitrile	6.14	54	4851	26.25	ug\L	#	89
25) Methacrylonitrile	6.41	41	61470	55.76	ug\L	#	32
26) Bromochloromethane	6.41	128	11117	5.31	ug\L		87
27) Chloroform	6.61	83	37405	4.67	ug\L		99
28) 1,1,1-Trichloroethane	6.89	97	34758	4.08	ug\L	#	23

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

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\030800\A23328.D Vial: 3
Acq On : 8 Mar 2000 8:10 pm Operator: KJ,TAG
Sample : ICAL 5ppb (V00018,V00002) Inst : GC/MS Ins
Misc : QC Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Mar 8 20:36 2000 Quant Results File: 030800W.RES

Quant Method : C:\HPCHEM\1\DATA\030800\030800W.M (RTE Integrator)
Title : 8260 CALIBRATION FOR WATER 2/24/2000
Last Update : Mon Feb 28 12:17:07 2000
Response via : Initial Calibration
DataAcq Meth : 030800W

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
29)	Carbon Tetrachloride	7.18	117	27801	3.67	ug\L		93
30)	1,4-Dioxane	9.47	88	2968	229.09	ug\L	#	23
31)	1,1-Dichloropropene	7.20	75	27606	5.00	ug\L		99
33)	Benzene	7.56	78	45810	5.27	ug\L		100
34)	Isobutyl alcohol	7.63	43	8750	113.53	ug\L	#	72
35)	1,2-Dichloroethane	7.60	62	24172	4.49	ug\L	#	93
36)	Trichloroethene	8.75	95	27806	5.20	ug\L		95
37)	1,2-Dichloropropane	9.14	63	18000	5.37	ug\L	#	95
38)	Dibromomethane	9.34	93	15130	4.73	ug\L		90
39)	Methylmethacrylate	9.46	69	10805	5.00	ug\L	#	91
40)	Bromodichloromethane	9.67	83	35228	4.20	ug\L		98
41)	2-Nitropropane	12.29	43	9031	4.74	ug\L		94
43)	cis-1,3-Dichloropropene	10.47	75	25037	4.47	ug\L		95
44)	4-Methyl-2-Pentanone	10.80	85	2301	3.91	ug\L	#	82
47)	Toluene	11.05	92	32820	4.96	ug\L		98
48)	trans-1,3-Dichloropropene	11.49	75	22335	4.19	ug\L		98
49)	Ethylmethacrylate	11.72	69	22085	4.57	ug\L	#	100
50)	1,1,2-Trichloroethane	11.78	83	15266	5.08	ug\L		98
51)	Tetrachloroethene	12.02	164	24513	5.24	ug\L		98
52)	1,3-Dichloropropane	12.08	76	27704	5.09	ug\L		98
53)	2-Hexanone	12.29	43	9031	4.72	ug\L	#	47
54)	Dibromochloromethane	12.47	129	29381	4.31	ug\L		94
55)	1,2-Dibromoethane	12.63	107	23588	4.65	ug\L	#	96
56)	Chlorobenzene	13.54	112	45225	5.22	ug\L		91
57)	1,1,1,2-Tetrachloroethane	13.70	131	24432	4.65	ug\L		97
58)	Ethylbenzene	13.77	91	71063	4.92	ug\L		97
59)	total-Xylene	13.99	106	76403m	14.99	ug\L		
60)	Styrene	14.72	104	43295	4.92	ug\L	#	81
62)	Bromoform	15.02	173	21643	4.17	ug\L		98
63)	Isopropylbenzene	15.37	105	78249	4.88	ug\L		99
64)	1,4-dichloro-2-Butene	15.53	75	3238	3.40	ug\L	#	74
66)	Bromobenzene	15.87	156	27379	5.27	ug\L		82
67)	1,1,2,2-Tetrachloroethane	15.94	83	28512	5.21	ug\L		98
68)	1,2,3-Trichloropropane	15.98	75	24401	4.65	ug\L	#	100
69)	n-Propylbenzene	16.12	91	86234	4.54	ug\L		94
70)	2-Chlorotoluene	16.24	91	58504	4.30	ug\L		99
71)	4-Chlorotoluene	16.44	91	74718	4.78	ug\L		99
72)	1,3,5-Trimethylbenzene	16.46	105	71496	4.93	ug\L		96
73)	Pentachloroethane	17.04	167	14308	3.74	ug\L	#	91
74)	tert-Butylbenzene	17.04	119	82661	4.78	ug\L		99

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

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\030800\A23328.D Vial: 3
Acq On : 8 Mar 2000 8:10 pm Operator: KJ,TAG
Sample : ICAL 5ppb (V00018,V00002) Inst : GC/MS Ins
Misc : QC Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Mar 8 20:36 2000 Quant Results File: 030800W.RES

Quant Method : C:\HPCHEM\1\DATA\030800\030800W.M (RTE Integrator)
Title : 8260 CALIBRATION FOR WATER 2/24/2000
Last Update : Mon Feb 28 12:17:07 2000
Response via : Initial Calibration
DataAcq Meth : 030800W

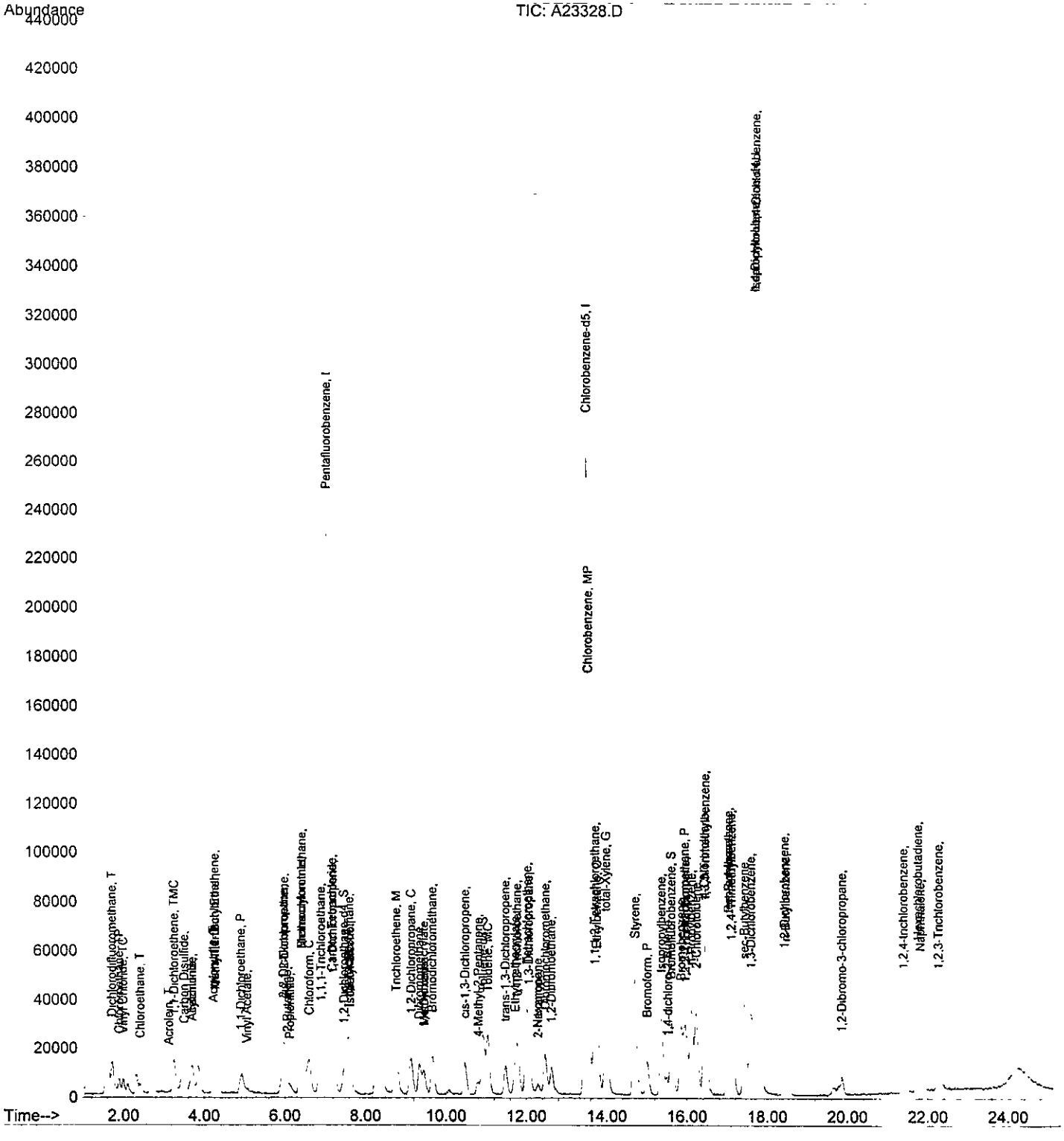
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
75)	1,2,4-Trimethylbenzene	17.12	105	72465	4.88	ug\L	97
76)	sec-Butylbenzene	17.44	105	96174	4.98	ug\L	98
77)	1,3-Dichlorobenzene	17.60	146	45292	5.18	ug\L	97
78)	Isopropyltoluene	17.72	119	82116	5.05	ug\L	100
79)	1,4-Dichlorobenzene	17.75	146	50847	5.51	ug\L	94
80)	1,2-Dichlorobenzene	18.43	146	36860	4.58	ug\L	99
81)	n-Butylbenzene	18.48	91	66829	4.17	ug\L	96
82)	1,2-Dibromo-3-chloropropan	19.87	75	7198	3.69	ug\L	97
83)	1,2,4-trichlorobenzene	21.40	180	37975	4.62	ug\L	100
84)	Hexachlorobutadiene	21.76	225	28580	4.32	ug\L	100
85)	Naphthalene	21.84	128	70621	3.03	ug\L	100
86)	1,2,3-Trichlorobenzene	22.28	180	36385	4.69	ug\L	99

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

Quantitation Report

Data File : C:\HPCHEM\1\DATA\030800\A23328.D Vial: 3
Acq On : 8 Mar 2000 8:10 pm Operator: KJ,TAG
Sample : ICAL 5ppb (V00018,V00002) Inst : GC/MS Ins
Misc : QC Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Mar 8 20:36 2000 Quant Results File: 030800W.RES

Method : C:\HPCHEM\1\DATA\030800\030800W.M (RTE Integrator)
Title : 8260 CALIBRATION FOR WATER 2/24/2000
Last Update : Fri Feb 25 01:01:24 2000
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\030800\A23329.D
Acq On : 8 Mar 2000 8:43 pm
Sample : ICAL 2ppb (V00018,V00002)
Misc : QC
MS Integration Params: rteint.p
Quant Time: Mar 8 21:08 2000

Vial: 4
Operator: KJ,TAG
Inst : GC/MS Ins
Multiplr: 1.00
Quant Results File: 030800W.RES

Quant Method : C:\HPCHEM\1\DATA\030800\030800W.M (RTE Integrator)
Title : 8260 CALIBRATION FOR WATER 2/24/2000
Last Update : Mon Feb 28 12:17:07 2000
Response via : Initial Calibration
DataAcq Meth : 030800W

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Pentafluorobenzene	7.02	168	549073	50.00	ug\L		-0.01
45) Chlorobenzene-d5	13.49	117	466784	50.00	ug\L		0.00
61) 1,4-Dichlorobenzene-d4	17.73	152	310306	50.00	ug\L		0.02
System Monitoring Compounds							
32) 1,2-Dichloroethane-d4	7.48	65	6220	1.17	ug\L		-0.01
Spiked Amount 50.000	Range 80 - 120		Recovery =	2.34%#			
46) Toluene-d8	10.93	98	28289	0.05	ug\L		0.00
Spiked Amount 50.000	Range 87 - 104		Recovery =	0.10%#			
65) Bromofluorobenzene	15.61	95	20501	2.31	ug\L		-0.01
Spiked Amount 50.000	Range 84 - 110		Recovery =	4.62%#			
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.72	85	6693	2.50	ug\L		93
3) Chloromethane	1.90	50	5617	4.49	ug\L		88
4) Vinyl Chloride	2.01	62	4259	2.33	ug\L		95
5) Bromomethane	2.32	94	5441	-9.62	ug\L		100
6) Chloroethane	2.42	64	2611	2.44	ug\L	#	83
7) Trichlorofluoromethane	2.68	101	13470	-18.61	ug\L	#	100
8) Acrolein	3.14	56	302	1.63	ug\L	#	1
9) Acrylonitrile	4.23	53	1874	3.55	ug\L	#	69
10) 1,1-Dichloroethene	3.25	96	5342	1.76	ug\L		94
11) Acetone	3.32	58	221	-11.44	ug\L	#	1
12) Iodomethane	3.47	142	7248	-5.24	ug\L	#	63
13) Allylchloride	3.71	76	2468	1.79	ug\L		92
14) Carbon Disulfide	3.51	76	10463	1.39	ug\L		98
15) Acetonitrile	3.69	41	9489	20.33	ug\L		100
16) Methylene Chloride	3.86	84	3072	-6.98	ug\L	#	8
17) trans-1,2-Dichloroethene	4.27	96	6063	1.79	ug\L		94
18) MethylTertButylEther	4.30	73	14002	1.61	ug\L		93
19) 1,1-Dichloroethane	4.93	63	9985	1.78	ug\L	#	77
20) Vinyl Acetate	5.04	43	2756	1.35	ug\L	#	69
21) 2,2-Dichloropropane	5.96	77	9868	1.41	ug\L	#	88
22) cis-1,2-Dichloroethene	5.99	96	6222	1.74	ug\L	#	85
24) Propionitrile	6.14	54	3753	20.25	ug\L	#	66
25) Methacrylonitrile	6.42	41	21359	19.32	ug\L	#	88
26) Bromochloromethane	6.43	128	3721	1.77	ug\L	#	1
27) Chloroform	6.59	83	12896	1.61	ug\L		98
28) 1,1,1-Trichloroethane	6.88	97	12944	1.52	ug\L	#	39
29) Carbon Tetrachloride	7.17	117	8619	1.13	ug\L	#	76

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

Data File : C:\HPCHEM\1\DATA\030800\A23329.D Vial: 4
Acq On : 8 Mar 2000 8:43 pm Operator: KJ,TAG
Sample : ICAL 2ppb (V00018,V00002) Inst : GC/MS Ins
Misc : QC Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Mar 8 21:08 2000 Quant Results File: 030800W.RES

Quant Method : C:\HPCHEM\1\DATA\030800\030800W.M (RTE Integrator)
Title : 8260 CALIBRATION FOR WATER 2/24/2000
Last Update : Mon Feb 28 12:17:07 2000
Response via : Initial Calibration
DataAcq Meth : 030800W

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
30) 1,4-Dioxane	9.45	88	546	149.72 ug\L #	55
31) 1,1-Dichloropropene	7.19	75	7322	1.32 ug\L #	63
33) Benzene	7.55	78	17679	2.03 ug\L	100
34) Isobutyl alcohol	7.66	43	2615	33.83 ug\L #	50
35) 1,2-Dichloroethane	7.60	62	8447	1.57 ug\L #	82
36) Trichloroethene	8.76	95	9825	1.83 ug\L #	82
37) 1,2-Dichloropropane	9.13	63	7111	2.11 ug\L #	84
38) Dibromomethane	9.35	93	5025	1.57 ug\L #	84
39) Methylmethacrylate	9.47	69	3322	1.53 ug\L #	31
40) Bromodichloromethane	9.67	83	12401	1.47 ug\L	95
41) 2-Nitropropane	12.33	43	2601	1.36 ug\L #	57
43) cis-1,3-Dichloropropene	10.49	75	9181	1.63 ug\L #	76
47) Toluene	11.05	92	12344	1.87 ug\L	99
48) trans-1,3-Dichloropropene	11.48	75	7322	1.38 ug\L	96
49) Ethylmethacrylate	11.72	69	7286	1.51 ug\L #	94
50) 1,1,2-Trichloroethane	11.81	83	5499	1.84 ug\L	97
51) Tetrachloroethene	12.00	164	8350	1.79 ug\L #	54
52) 1,3-Dichloropropane	12.07	76	9492	1.75 ug\L	96
53) 2-Hexanone	12.33	43	2601	1.36 ug\L #	39
54) Dibromochloromethane	12.49	129	9873	1.45 ug\L	95
55) 1,2-Dibromoethane	12.63	107	8293	1.64 ug\L #	6
56) Chlorobenzene	13.53	112	15861	1.84 ug\L #	75
57) 1,1,1,2-Tetrachloroethane	13.71	131	7917	1.51 ug\L #	86
58) Ethylbenzene	13.77	91	25324	1.76 ug\L	97
59) total-Xylene	13.99	106	27644m	5.44 ug\L	
60) Styrene	14.73	104	14479	1.65 ug\L #	78
62) Bromoform	15.01	173	7152	1.40 ug\L #	94
63) Isopropylbenzene	15.38	105	26432	1.67 ug\L	97
66) Bromobenzene	15.86	156	9351	1.82 ug\L #	69
67) 1,1,2,2-Tetrachloroethane	15.95	83	9381	1.73 ug\L #	25
69) n-Propylbenzene	16.12	91	28193	1.50 ug\L	92
70) 2-Chlorotoluene	16.23	91	16891	1.26 ug\L #	87
71) 4-Chlorotoluene	16.44	91	26779	1.73 ug\L #	86
72) 1,3,5-Trimethylbenzene	16.47	105	23850	1.66 ug\L	97
73) Pentachloroethane	17.05	167	4281	1.13 ug\L #	83
74) tert-Butylbenzene	17.04	119	28977	1.70 ug\L	98
75) 1,2,4-Trimethylbenzene	17.14	105	25664	1.75 ug\L	96
76) sec-Butylbenzene	17.45	105	33511	1.76 ug\L	98
77) 1,3-Dichlorobenzene	17.59	146	16629	1.93 ug\L	96
78) Isopropyltoluene	17.74	119	29610	1.84 ug\L	98

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

Data File : C:\HPCHEM\1\DATA\030800\A23329.D Vial: 4
Acq On : 8 Mar 2000 8:43 pm Operator: KJ,TAG
Sample : ICAL 2ppb (V00018,V00002) Inst : GC/MS Ins
Misc : QC Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Mar 8 21:08 2000 Quant Results File: 030800W.RES

Quant Method : C:\HPCHEM\1\DATA\030800\030800W.M (RTE Integrator)
Title : 8260 CALIBRATION FOR WATER 2/24/2000
Last Update : Mon Feb 28 12:17:07 2000
Response via : Initial Calibration
DataAcq Meth : 030800W

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
79)	1,4-Dichlorobenzene	17.59	146	16629	1.82	ug\L	97
80)	1,2-Dichlorobenzene	18.43	146	16288	2.05	ug\L	95
81)	n-Butylbenzene	18.50	91	27997	1.77	ug\L	96
83)	1,2,4-trichlorobenzene	21.40	180	15962	1.97	ug\L	100
84)	Hexachlorobutadiene	21.75	225	12396	1.90	ug\L	100
86)	1,2,3-Trichlorobenzene	22.30	180	16401	2.14	ug\L	97

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

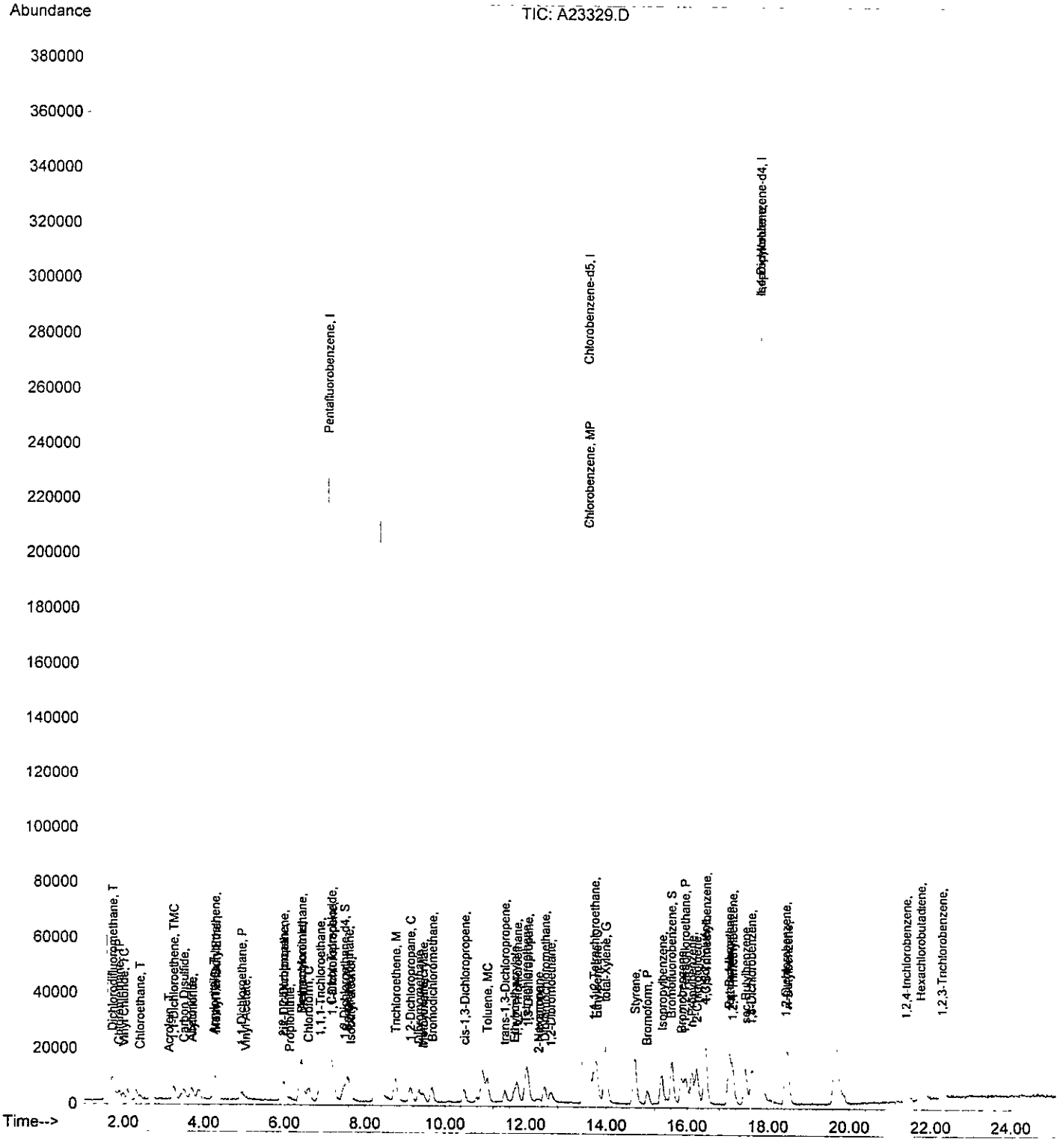
Quantitation Report

Data File : C:\HPCHEM\1\DATA\030800\A23329.D
Acq On : 8 Mar 2000 8:43 pm
Sample : ICAL 2ppb (V00018,V00002)
Misc : QC
MS Integration Params: rteint.p
Quant Time: Mar 8 21:08 2000

Vial: 4
Operator: KJ,TAG
Inst : GC/MS Ins
Multiplr: 1.00

Quant Results File: 030800W.RES

Method : C:\HPCHEM\1\DATA\030800\030800W.M (RTE Integrator)
Title : 8260 CALIBRATION FOR WATER 2/24/2000
Last Update : Fri Feb 25 01:01:24 2000
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\030800\A23330.D Vial: 5
Acq On : 8 Mar 2000 9:14 pm Operator: KJ,TAG
Sample : ICAL 100ppb (V00018,V00002) Inst : GC/MS Ins
Misc : QC Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Mar 8 21:40 2000 Quant Results File: 030800W.RES

Quant Method : C:\HPCHEM\1\DATA\030800\030800W.M (RTE Integrator)
Title : 8260 CALIBRATION FOR WATER 2/24/2000
Last Update : Mon Feb 28 12:17:07 2000
Response via : Initial Calibration
DataAcq Meth : 030800W

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Pentafluorobenzene	7.03	168	447598	50.00	ug\L		0.00
45) Chlorobenzene-d5	13.50	117	388766	50.00	ug\L		0.02
61) 1,4-Dichlorobenzene-d4	17.73	152	255523	50.00	ug\L		0.02
System Monitoring Compounds							
32) 1,2-Dichloroethane-d4	7.47	65	362107	83.60	ug\L		-0.02
Spiked Amount 50.000	Range 80 - 120		Recovery = 167.20%#				
46) Toluene-d8	10.93	98	887678	101.85	ug\L		0.00
Spiked Amount 50.000	Range 87 - 104		Recovery = 203.70%#				
65) Bromofluorobenzene	15.63	95	629382	85.94	ug\L		0.00
Spiked Amount 50.000	Range 84 - 110		Recovery = 171.88%#				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.72	85	304280	139.21	ug\L		99
3) Chloromethane	1.89	50	184957	181.56	ug\L		99
4) Vinyl Chloride	2.00	62	203538	136.76	ug\L		99
5) Bromomethane	2.29	94	118588	76.65	ug\L		98
6) Chloroethane	2.39	64	69064	79.30	ug\L		97
7) Trichlorofluoromethane	2.66	101	640629	117.07	ug\L	#	100
8) Acrolein	3.15	56	28035	196.78	ug\L	#	49
9) Acrylonitrile	4.21	53	92612	214.91	ug\L		97
10) 1,1-Dichloroethene	3.24	96	259613	104.68	ug\L		95
11) Acetone	3.34	58	16218	111.39	ug\L		100
12) Iodomethane	3.43	142	434107	84.53	ug\L		99
13) Allylchloride	3.69	76	111477	99.25	ug\L		90
14) Carbon Disulfide	3.49	76	578149	94.24	ug\L		100
15) Acetonitrile	3.68	41	427553	1123.43	ug\L		95
16) Methylene Chloride	3.86	84	250039	102.86	ug\L		98
17) trans-1,2-Dichloroethene	4.25	96	276569	100.42	ug\L		95
18) MethylTertButylEther	4.29	73	641426	90.41	ug\L		96
19) 1,1-Dichloroethane	4.93	63	490109	107.23	ug\L		98
20) Vinyl Acetate	5.06	43	150237	90.08	ug\L		99
21) 2,2-Dichloropropane	5.96	77	391715	68.56	ug\L		99
22) cis-1,2-Dichloroethene	5.98	96	300299	103.15	ug\L		97
23) 2-Butanone	6.09	72	23215	105.38	ug\L	#	48
24) Propionitrile	6.15	54	177869	1177.34	ug\L	#	95
25) Methacrylonitrile	6.45	41	925394	1026.98	ug\L		96
26) Bromochloromethane	6.41	128	184763	107.87	ug\L		85
27) Chloroform	6.60	83	619538	94.72	ug\L		100
28) 1,1,1-Trichloroethane	6.89	97	600205	86.22	ug\L		94

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

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\030800\A23330.D Vial: 5
Acq On : 8 Mar 2000 9:14 pm Operator: KJ,TAG
Sample : ICAL 100ppb (V00018,V00002) Inst : GC/MS Ins
Misc : QC Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Mar 8 21:40 2000 Quant Results File: 030800W.RES

Quant Method : C:\HPCHEM\1\DATA\030800\030800W.M (RTE Integrator)
Title : 8260 CALIBRATION FOR WATER 2/24/2000
Last Update : Mon Feb 28 12:17:07 2000
Response via : Initial Calibration
DataAcq Meth : 030800W

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
29)	Carbon Tetrachloride	7.18	117	512436	82.74	ug\L		100
30)	1,4-Dioxane	9.47	88	46448	1992.97	ug\L		93
31)	1,1-Dichloropropene	7.19	75	447607	99.22	ug\L		99
33)	Benzene	7.56	78	780253	109.78	ug\L		100
34)	Isobutyl alcohol	7.69	43	125432	1990.82	ug\L		95
35)	1,2-Dichloroethane	7.62	62	384465	87.44	ug\L	#	94
36)	Trichloroethene	8.75	95	421109	96.38	ug\L		97
37)	1,2-Dichloropropane	9.14	63	324214	118.26	ug\L		99
38)	Dibromomethane	9.35	93	229923	87.88	ug\L	#	89
39)	Methylmethacrylate	9.46	69	176015	99.59	ug\L		96
40)	Bromodichloromethane	9.67	83	588605	85.77	ug\L		98
41)	2-Nitropropane	12.32	43	157250	100.89	ug\L		99
42)	2-Chloroethyl-vinyl ether	10.25	63	40311	49.52	ug\L	#	94
43)	cis-1,3-Dichloropropene	10.48	75	450871	98.36	ug\L		94
44)	4-Methyl-2-Pentanone	10.80	85	42468	88.27	ug\L	#	89
47)	Toluene	11.04	92	550992	100.35	ug\L		99
48)	trans-1,3-Dichloropropene	11.48	75	400774	90.62	ug\L		97
49)	Ethylmethacrylate	11.73	69	381660	95.23	ug\L	#	98
50)	1,1,2-Trichloroethane	11.80	83	248615	99.69	ug\L		99
51)	Tetrachloroethene	12.01	164	391843	100.95	ug\L		99
52)	1,3-Dichloropropane	12.08	76	440771	97.57	ug\L		99
53)	2-Hexanone	12.32	43	157250	99.06	ug\L		97
54)	Dibromochloromethane	12.49	129	508690	89.88	ug\L		99
55)	1,2-Dibromoethane	12.63	107	403335	95.84	ug\L	#	99
56)	Chlorobenzene	13.54	112	727635	101.27	ug\L		97
57)	1,1,1,2-Tetrachloroethane	13.71	131	409834	93.98	ug\L		95
58)	Ethylbenzene	13.77	91	1143109	95.39	ug\L		99
59)	total-Xylene	13.99	106	1253309m	296.39	ug\L		
60)	Styrene	14.73	104	713366	97.70	ug\L	#	84
62)	Bromoform	15.03	173	388960	92.15	ug\L		98
63)	Isopropylbenzene	15.38	105	1247455	95.57	ug\L		98
64)	1,4-dichloro-2-Butene	15.52	75	62894	81.16	ug\L	#	76
66)	Bromobenzene	15.87	156	432327	102.34	ug\L		84
67)	1,1,2,2-Tetrachloroethane	15.96	83	424063	95.23	ug\L	#	99
68)	1,2,3-Trichloropropane	16.00	75	379825	89.03	ug\L	#	100
69)	n-Propylbenzene	16.12	91	1477375	95.70	ug\L		97
70)	2-Chlorotoluene	16.23	91	905304	81.70	ug\L		99
71)	4-Chlorotoluene	16.45	91	1167944	91.77	ug\L		99
72)	1,3,5-Trimethylbenzene	16.46	105	1099670	93.13	ug\L		96
73)	Pentachloroethane	17.07	167	296054	95.21	ug\L		98

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

Data File : C:\HPCHEM\1\DATA\030800\A23330.D Vial: 5
Acq On : 8 Mar 2000 9:14 pm Operator: KJ,TAG
Sample : ICAL 100ppb (V00018,V00002) Inst : GC/MS Ins
Misc : QC Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Mar 8 21:40 2000 Quant Results File: 030800W.RES

Quant Method : C:\HPCHEM\1\DATA\030800\030800W.M (RTE Integrator)
Title : 8260 CALIBRATION FOR WATER 2/24/2000
Last Update : Mon Feb 28 12:17:07 2000
Response via : Initial Calibration
DataAcq Meth : 030800W

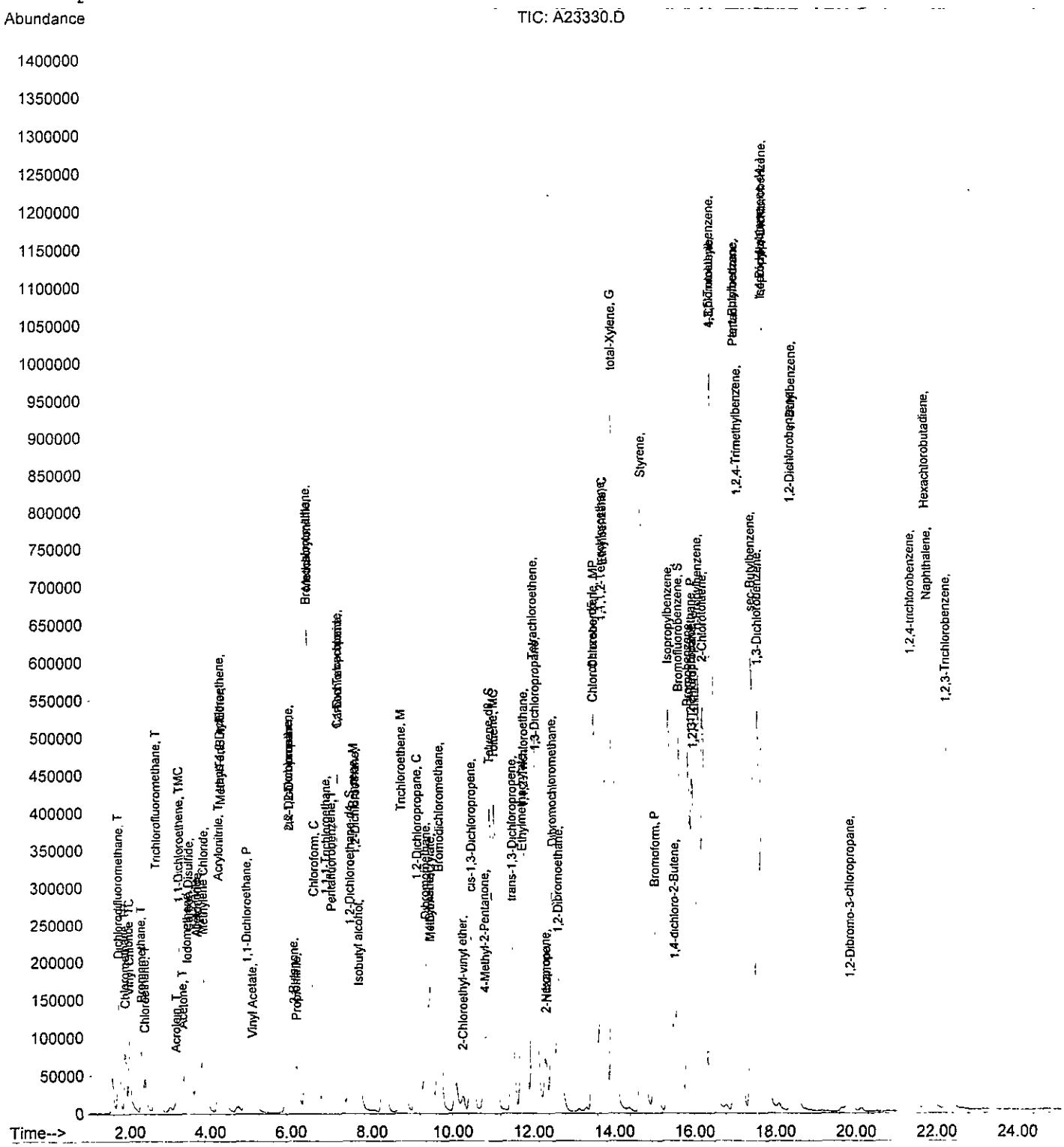
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
74)	tert-Butylbenzene	17.05	119	1322761	94.06	ug\L	99
75)	1,2,4-Trimethylbenzene	17.13	105	1112019	92.00	ug\L	97
76)	sec-Butylbenzene	17.44	105	1493496	95.13	ug\L	96
77)	1,3-Dichlorobenzene	17.60	146	698318	98.20	ug\L	99
78)	Isopropyltoluene	17.73	119	1240776	93.71	ug\L	99
79)	1,4-Dichlorobenzene	17.78	146	731586	97.36	ug\L	98
80)	1,2-Dichlorobenzene	18.43	146	655525	100.10	ug\L	99
81)	n-Butylbenzene	18.49	91	1235580	94.84	ug\L	96
82)	1,2-Dibromo-3-chloropropan	19.87	75	119073	75.01	ug\L	96
83)	1,2,4-trichlorobenzene	21.40	180	612324	91.56	ug\L	100
84)	Hexachlorobutadiene	21.76	225	495030	91.93	ug\L	100
85)	Naphthalene	21.82	128	807683	92.09	ug\L	100
86)	1,2,3-Trichlorobenzene	22.28	180	538381	85.30	ug\L	98

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

Quantitation Report

Data File : C:\HPCHEM\1\DATA\030800\A23330.D Vial: 5
Acq On : 8 Mar 2000 9:14 pm Operator: KJ,TAG
Sample : ICAL 100ppb (V00018,V00002) Inst : GC/MS Ins
Misc : QC Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Mar 8 21:40 2000 Quant Results File: 030800W.RES

Method : C:\HPCHEM\1\DATA\030800\030800W.M (RTE Integrator)
Title : 8260 CALIBRATION FOR WATER 2/24/2000
Last Update : Fri Feb 25 01:01:24 2000
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\030800\A23331.D Vial: 6
Acq On : 8 Mar 2000 9:46 pm Operator: KJ,TAG
Sample : ICAL 200ppb (V00018,V00002) Inst : GC/MS Ins
Misc : QC Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Mar 8 22:11 2000 Quant Results File: 030800W.RES

Quant Method : C:\HPCHEM\1\DATA\030800\030800W.M (RTE Integrator)
Title : 8260 CALIBRATION FOR WATER 2/24/2000
Last Update : Mon Feb 28 12:17:07 2000
Response via : Initial Calibration
DataAcq Meth : 030800W

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Pentafluorobenzene	7.03	168	568167	50.00	ug\L		0.00
45) Chlorobenzene-d5	13.51	117	425019	50.00	ug\L		0.03
61) 1,4-Dichlorobenzene-d4	17.76	152	263181	50.00	ug\L		0.05
System Monitoring Compounds							
32) 1,2-Dichloroethane-d4	7.48	65	830286	151.02	ug\L		0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 302.04%#				
46) Toluene-d8	10.95	98	1803107	191.58	ug\L		0.02
Spiked Amount 50.000	Range 87 - 104		Recovery = 383.16%#				
65) Bromofluorobenzene	15.67	95	1281209	169.85	ug\L		0.04
Spiked Amount 50.000	Range 84 - 110		Recovery = 339.70%#				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.72	85	700825	252.59	ug\L		99
3) Chloromethane	1.90	50	460629	356.22	ug\L		100
4) Vinyl Chloride	1.99	62	467788	247.61	ug\L		99
5) Bromomethane	2.30	94	290408	159.93	ug\L		99
6) Chloroethane	2.39	64	153483	138.84	ug\L		99
7) Trichlorofluoromethane	2.65	101	1117721	168.77	ug\L	#	100
8) Acrolein	3.15	56	58684	324.56	ug\L	#	56
9) Acrylonitrile	4.25	53	212670	388.79	ug\L		96
10) 1,1-Dichloroethene	3.23	96	611868	194.36	ug\L		96
11) Acetone	3.35	58	36962	210.19	ug\L		89
12) Iodomethane	3.41	142	899344	142.05	ug\L		99
13) Allylchloride	3.69	76	273671	191.94	ug\L		97
14) Carbon Disulfide	3.49	76	1367791	175.65	ug\L		99
15) Acetonitrile	3.70	41	981102	2030.87	ug\L		96
16) Methylene Chloride	3.85	84	610066	205.18	ug\L		99
17) trans-1,2-Dichloroethene	4.26	96	657426	188.05	ug\L		95
18) MethylTertButylEther	4.31	73	1485585	164.96	ug\L		96
19) 1,1-Dichloroethane	4.93	63	1175264	202.57	ug\L		98
20) Vinyl Acetate	5.07	43	364229	172.04	ug\L		99
21) 2,2-Dichloropropane	5.97	77	963846	132.90	ug\L		99
22) cis-1,2-Dichloroethene	5.99	96	727644	196.91	ug\L		99
23) 2-Butanone	6.11	72	56951	203.66	ug\L	#	99
24) Propionitrile	6.21	54	421692	2198.92	ug\L	#	98
25) Methacrylonitrile	6.46	41	2101134	1836.97	ug\L		95
26) Bromochloromethane	6.42	128	440279	202.50	ug\L	#	83
27) Chloroform	6.61	83	1507724	181.59	ug\L		99
28) 1,1,1-Trichloroethane	6.89	97	1462563	165.52	ug\L	#	74

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

Data File : C:\HPCHEM\1\DATA\030800\A23331.D Vial: 6
Acq On : 8 Mar 2000 9:46 pm Operator: KJ,TAG
Sample : ICAL 200ppb (V00018,V00002) Inst : GC/MS Ins
Misc : QC Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Mar 8 22:11 2000 Quant Results File: 030800W.RES

Quant Method : C:\HPCHEM\1\DATA\030800\030800W.M (RTE Integrator)
Title : 8260 CALIBRATION FOR WATER 2/24/2000
Last Update : Mon Feb 28 12:17:07 2000
Response via : Initial Calibration
DataAcq Meth : 030800W

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
29)	Carbon Tetrachloride	7.19	117	1142201	145.30	ug\L		98
30)	1,4-Dioxane	9.53	88	97175	3199.25	ug\L	#	72
31)	1,1-Dichloropropene	7.21	75	1089215	190.20	ug\L		100
33)	Benzene	7.56	78	1876369	207.98	ug\L		100
34)	Isobutyl alcohol	7.79	43	311503	3894.92	ug\L		97
35)	1,2-Dichloroethane	7.62	62	882938	158.19	ug\L		95
36)	Trichloroethene	8.76	95	996791	179.72	ug\L		96
37)	1,2-Dichloropropane	9.15	63	756227	217.31	ug\L		99
38)	Dibromomethane	9.36	93	452009	136.10	ug\L	#	89
39)	Methylmethacrylate	9.49	69	354993	158.24	ug\L		94
40)	Bromodichloromethane	9.69	83	1171853	134.53	ug\L		99
41)	2-Nitropropane	12.36	43	322506	163.00	ug\L		99
42)	2-Chloroethyl-vinyl ether	10.29	63	97487	94.31	ug\L		95
43)	cis-1,3-Dichloropropene	10.49	75	949933	163.26	ug\L		95
44)	4-Methyl-2-Pentanone	10.86	85	87965	144.03	ug\L	#	82
47)	Toluene	11.07	92	1135005	189.07	ug\L		100
48)	trans-1,3-Dichloropropene	11.51	75	865905	179.08	ug\L		98
49)	Ethylmethacrylate	11.75	69	790414	180.40	ug\L	#	97
50)	1,1,2-Trichloroethane	11.82	83	512059	187.81	ug\L		99
51)	Tetrachloroethene	12.03	164	790891	186.38	ug\L		100
52)	1,3-Dichloropropane	12.10	76	903710	182.99	ug\L		99
53)	2-Hexanone	12.36	43	322506	185.84	ug\L		98
54)	Dibromochloromethane	12.51	129	1080579	174.63	ug\L		98
55)	1,2-Dibromoethane	12.65	107	835108	181.50	ug\L	#	99
56)	Chlorobenzene	13.56	112	1495918	190.44	ug\L		97
57)	1,1,1,2-Tetrachloroethane	13.74	131	845831	177.42	ug\L		95
58)	Ethylbenzene	13.80	91	2327743	177.67	ug\L		98
59)	total-Xylene	14.02	106	2527071m	546.64	ug\L		
60)	Styrene	14.75	104	1443289	180.81	ug\L	#	82
62)	Bromoform	15.07	173	799049	183.80	ug\L		98
63)	Isopropylbenzene	15.40	105	2554082	189.98	ug\L		99
64)	1,4-dichloro-2-Butene	15.56	75	163424	204.75	ug\L	#	99
66)	Bromobenzene	15.89	156	867846	199.46	ug\L		86
67)	1,1,2,2-Tetrachloroethane	15.99	83	837336	182.57	ug\L	#	99
68)	1,2,3-Trichloropropane	16.04	75	790309	179.85	ug\L	#	100
69)	n-Propylbenzene	16.16	91	3103143	195.16	ug\L		100
70)	2-Chlorotoluene	16.28	91	1786087	156.50	ug\L		99
71)	4-Chlorotoluene	16.48	91	2383752	181.84	ug\L		99
72)	1,3,5-Trimethylbenzene	16.50	105	2186119	179.75	ug\L		95
73)	Pentachloroethane	17.08	167	619043	193.28	ug\L		98

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

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\030800\A23331.D Vial: 6
Acq On : 8 Mar 2000 9:46 pm Operator: KJ,TAG
Sample : ICAL 200ppb (V00018,V00002) Inst : GC/MS Ins
Misc : QC Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Mar 8 22:11 2000 Quant Results File: 030800W.RES

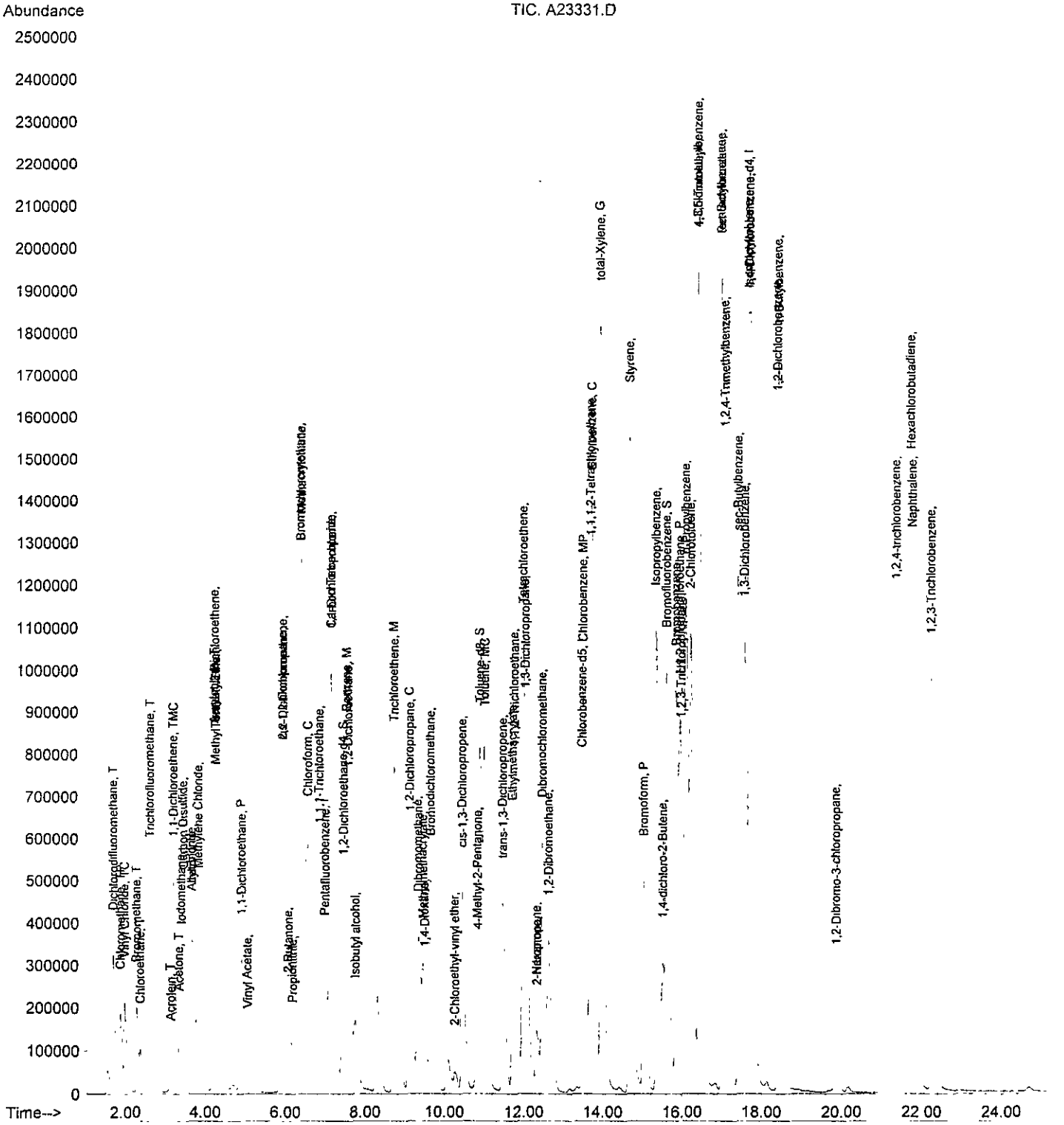
Quant Method : C:\HPCHEM\1\DATA\030800\030800W.M (RTE Integrator)
Title : 8260 CALIBRATION FOR WATER 2/24/2000
Last Update : Mon Feb 28 12:17:07 2000
Response via : Initial Calibration
DataAcq Meth : 030800W

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
74)	tert-Butylbenzene	17.07	119	2634184	181.86	ug\L	99
75)	1,2,4-Trimethylbenzene	17.17	105	2226888	178.87	ug\L	96
76)	sec-Butylbenzene	17.48	105	3043385	188.20	ug\L	96
77)	1,3-Dichlorobenzene	17.64	146	1400980	191.29	ug\L	98
78)	Isopropyltoluene	17.75	119	2431592	178.30	ug\L	99
79)	1,4-Dichlorobenzene	17.80	146	1389883	179.58	ug\L	97
80)	1,2-Dichlorobenzene	18.46	146	1281249	189.96	ug\L	98
81)	n-Butylbenzene	18.51	91	2485359	185.22	ug\L	98
82)	1,2-Dibromo-3-chloropropan	19.90	75	248578	152.04	ug\L	98
83)	1,2,4-trichlorobenzene	21.42	180	1244604	180.69	ug\L	100
84)	Hexachlorobutadiene	21.79	225	962092	173.47	ug\L	100
85)	Naphthalene	21.85	128	1647878	186.14	ug\L	100
86)	1,2,3-Trichlorobenzene	22.30	180	1100111	169.23	ug\L	99

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

Data File : C:\HPCHEM\1\DATA\030800\A23331.D Vial: 6
Acq On : 8 Mar 2000 9:46 pm Operator: KJ,TAG
Sample : ICAL 200ppb (V00018,V00002) Inst : GC/MS Ins
Misc : QC Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Mar 8 22:11 2000 Quant Results File: 030800W.RES

Method : C:\HPCHEM\1\DATA\030800\030800W.M (RTE Integrator)
Title : 8260 CALIBRATION FOR WATER 2/24/2000
Last Update : Fri Feb 25 01:01:24 2000
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\030800\A23333.D Vial: 7
Acq On : 8 Mar 2000 10:56 pm Operator: KJ,TAG
Sample : ICV 50ppb (V00019,V00002) Inst : GC/MS Ins
Misc : QC Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Mar 8 23:23 2000 Quant Results File: 030800W.RES

Quant Method : C:\HPCHEM\1\DATA\030800\030800W.M (RTE Integrator)
Title : 8260 CALIBRATION FOR WATER 2/24/2000
Last Update : Wed Mar 08 23:04:31 2000
Response via : Initial Calibration
DataAcq Meth : 030800W

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Pentafluorobenzene	7.05	168	601200	50.00	ug\L		0.01
45) Chlorobenzene-d5	13.49	117	511191	50.00	ug\L		0.00
61) 1,4-Dichlorobenzene-d4	17.73	152	292661	50.00	ug\L		0.00
System Monitoring Compounds							
32) 1,2-Dichloroethane-d4	7.48	65	237289	49.07	ug\L		0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 98.14%				
46) Toluene-d8	10.93	98	601254	50.46	ug\L		0.00
Spiked Amount 50.000	Range 87 - 104		Recovery = 100.92%				
65) Bromofluorobenzene	15.63	95	360654	48.89	ug\L		0.00
Spiked Amount 50.000	Range 84 - 110		Recovery = 97.78%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.72	85	228621	57.47	ug\L		97
3) Chloromethane	1.89	50	101157	41.46	ug\L		99
4) Vinyl Chloride	2.00	62	141018	54.56	ug\L		99
5) Bromomethane	2.30	94	109826	66.64	ug\L		98
6) Chloroethane	2.41	64	48392	41.11	ug\L		98
7) Trichlorofluoromethane	2.68	101	412486	52.25	ug\L	#	100
8) Acrolein	3.15	56	16521	101.62	ug\L		96
9) Acrylonitrile	4.24	53	66429	111.38	ug\L		98
10) 1,1-Dichloroethene	3.26	96	173297	51.02	ug\L		99
11) Acetone	3.33	58	16427	73.34	ug\L		97
12) Iodomethane	3.45	142	309059	56.35	ug\L		98
13) Allylchloride	3.71	76	73736	48.40	ug\L		86
14) Carbon Disulfide	3.50	76	369593	48.60	ug\L		99
15) Acetonitrile	3.69	41	288347	518.21	ug\L		97
16) Methylene Chloride	3.86	84	167823	50.94	ug\L		100
17) trans-1,2-Dichloroethene	4.27	96	194530	52.96	ug\L		99
18) MethylTertButylEther	4.30	73	451484	53.73	ug\L		100
19) 1,1-Dichloroethane	4.95	63	324893	51.25	ug\L		99
20) Vinyl Acetate	5.08	43	104653	56.67	ug\L		100
21) 2,2-Dichloropropane	5.97	77	306140	53.93	ug\L		100
22) cis-1,2-Dichloroethene	5.99	96	208610	51.78	ug\L		99
23) 2-Butanone	6.06	72	18909	60.30	ug\L	#	22
24) Propionitrile	6.16	54	128039	561.56	ug\L	#	99
25) Methacrylonitrile	6.44	41	676013	541.81	ug\L		99
26) Bromochloromethane	6.43	128	125989	51.86	ug\L		100
27) Chloroform	6.61	83	414745	50.22	ug\L		100
28) 1,1,1-Trichloroethane	6.90	97	415802	52.20	ug\L		98

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

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\030800\A23333.D Vial: 7
Acq On : 8 Mar 2000 10:56 pm Operator: KJ,TAG
Sample : ICV 50ppb (V00019,V00002) Inst : GC/MS Ins
Misc : QC Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Mar 8 23:23 2000 Quant Results File: 030800W.RES

Quant Method : C:\HPCHEM\1\DATA\030800\030800W.M (RTE Integrator)
Title : 8260 CALIBRATION FOR WATER 2/24/2000
Last Update : Wed Mar 08 23:04:31 2000
Response via : Initial Calibration
DataAcq Meth : 030800W

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
29)	Carbon Tetrachloride	7.19	117	382549	57.40	ug\L		98
30)	1,4-Dioxane	9.47	88	35771	1332.48	ug\L		96
31)	1,1-Dichloropropene	7.20	75	314840	52.46	ug\L		98
33)	Benzene	7.58	78	522020	50.80	ug\L		100
34)	Isobutyl alcohol	7.68	43	96470	1216.76	ug\L		98
35)	1,2-Dichloroethane	7.62	62	256116	50.04	ug\L		100
36)	Trichloroethene	8.77	95	288206	49.98	ug\L		99
37)	1,2-Dichloropropane	9.14	63	216431	52.46	ug\L		100
38)	Dibromomethane	9.36	93	157850	51.99	ug\L		96
39)	Methylmethacrylate	9.47	69	127576	57.23	ug\L		97
40)	Bromodichloromethane	9.68	83	420873	54.57	ug\L		99
41)	2-Nitropropane	12.31	43	118466	58.82	ug\L		100
42)	2-Chloroethyl-vinyl ether	10.27	63	23451	49.33	ug\L		97
43)	cis-1,3-Dichloropropene	10.49	75	315615	54.86	ug\L		99
44)	4-Methyl-2-Pentanone	10.80	85	31111	59.22	ug\L	#	96
47)	Toluene	11.06	92	372248	51.48	ug\L		100
48)	trans-1,3-Dichloropropene	11.49	75	284405	54.94	ug\L		97
49)	Ethylmethacrylate	11.73	69	270292	55.47	ug\L	#	99
50)	1,1,2-Trichloroethane	11.80	83	174764	53.47	ug\L		99
51)	Tetrachloroethene	12.01	164	272384	51.35	ug\L		98
52)	1,3-Dichloropropane	12.08	76	308450	52.95	ug\L		99
53)	2-Hexanone	12.31	43	118466	57.92	ug\L		98
54)	Dibromochloromethane	12.49	129	362000	54.33	ug\L		99
55)	1,2-Dibromoethane	12.64	107	293446	55.52	ug\L		99
56)	Chlorobenzene	13.55	112	507303	52.28	ug\L		98
57)	1,1,1,2-Tetrachloroethane	13.72	131	286373	52.96	ug\L		99
58)	Ethylbenzene	13.77	91	778295	51.33	ug\L		99
59)	total-Xylene	13.99	106	864443m	156.26	ug\L		
60)	Styrene	14.73	104	490785	51.80	ug\L		98
62)	Bromoform	15.02	173	274368	62.72	ug\L		100
63)	Isopropylbenzene	15.38	105	855577	58.58	ug\L		99
64)	1,4-dichloro-2-Butene	15.53	75	48429	62.40	ug\L	#	79
66)	Bromobenzene	15.86	156	247341	49.49	ug\L		96
67)	1,1,2,2-Tetrachloroethane	15.95	83	266259	53.95	ug\L		100
68)	1,2,3-Trichloropropane	16.00	75	238989	54.59	ug\L	#	100
69)	n-Propylbenzene	16.13	91	874996	51.37	ug\L		98
70)	2-Chlorotoluene	16.24	91	513653	49.65	ug\L		99
71)	4-Chlorotoluene	16.45	91	695433	50.82	ug\L		99
72)	1,3,5-Trimethylbenzene	16.47	105	634146	49.27	ug\L		99
73)	Pentachloroethane	17.05	167	173890	54.38	ug\L		99

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

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\030800\A23333.D Vial: 7
Acq On : 8 Mar 2000 10:56 pm Operator: KJ,TAG
Sample : ICV 50ppb (V00019,V00002) Inst : GC/MS Ins
Misc : QC Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Mar 8 23:23 2000 Quant Results File: 030800W.RES

Quant Method : C:\HPCHEM\1\DATA\030800\030800W.M (RTE Integrator)
Title : 8260 CALIBRATION FOR WATER 2/24/2000
Last Update : Wed Mar 08 23:04:31 2000
Response via : Initial Calibration
DataAcq Meth : 030800W

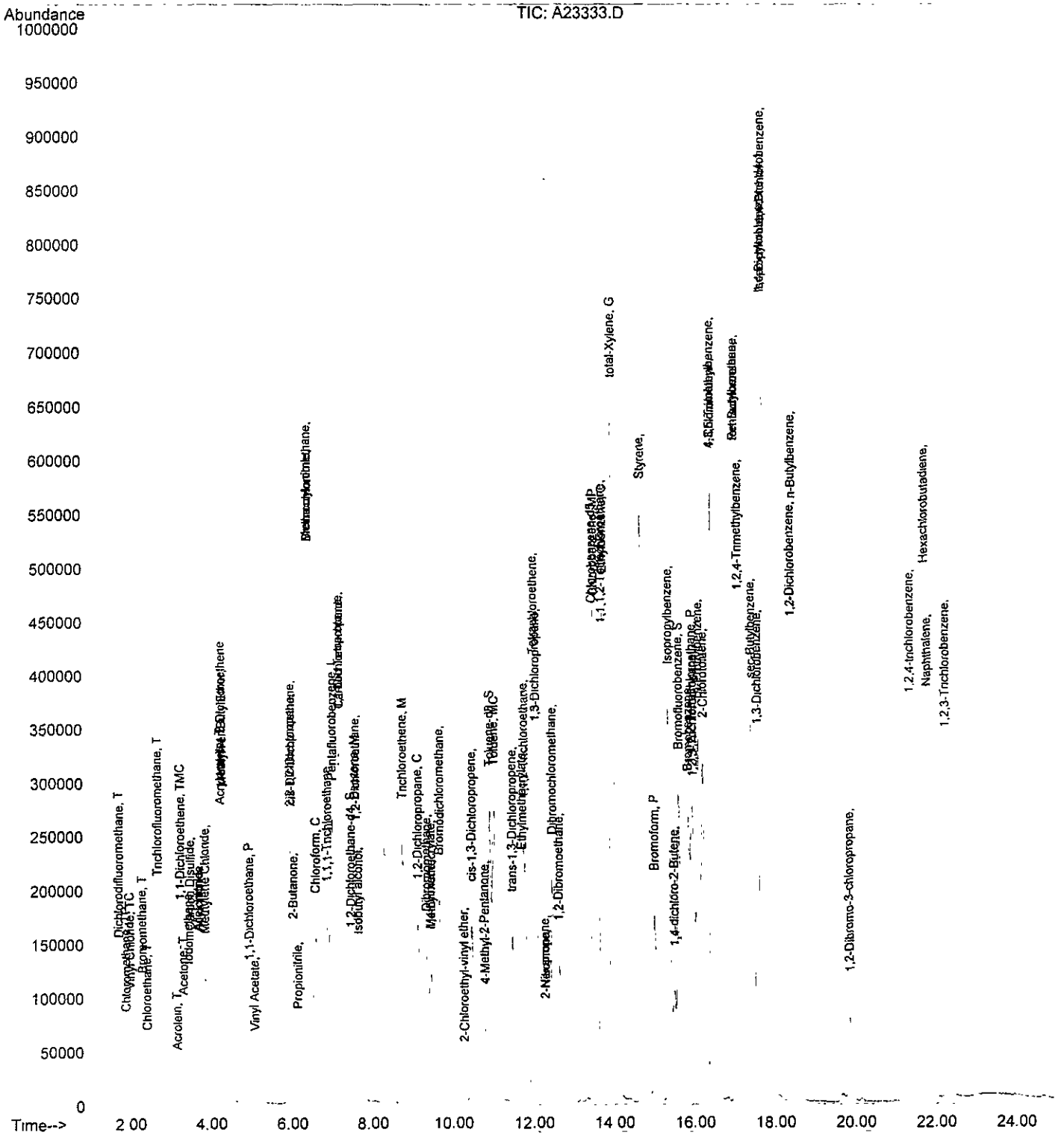
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
74)	tert-Butylbenzene	17.05	119	780859	50.63	ug\L	100
75)	1,2,4-Trimethylbenzene	17.13	105	646799	49.16	ug\L	99
76)	sec-Butylbenzene	17.44	105	873425	49.67	ug\L	100
77)	1,3-Dichlorobenzene	17.60	146	416204	50.53	ug\L	99
78)	Isopropyltoluene	17.73	119	726280	49.55	ug\L	99
79)	1,4-Dichlorobenzene	17.77	146	431402	49.63	ug\L	99
80)	1,2-Dichlorobenzene	18.42	146	390527	51.86	ug\L	98
81)	n-Butylbenzene	18.48	91	726641	52.18	ug\L	98
82)	1,2-Dibromo-3-chloropropan	19.87	75	78363	58.21	ug\L	97
83)	1,2,4-trichlorobenzene	21.40	180	378675	53.07	ug\L	100
84)	Hexachlorobutadiene	21.76	225	305850	53.37	ug\L	100
85)	Naphthalene	21.83	128	568761	60.37	ug\L	100
86)	1,2,3-Trichlorobenzene	22.28	180	350382	54.32	ug\L	99

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

Quantitation Report

Data File : C:\HPCHEM\1\DATA\030800\A23333.D Vial: 7
Acq On : 8 Mar 2000 10:56 pm Operator: KJ,TAG
Sample : ICV 50ppb (V00019,V00002) Inst : GC/MS Ins
Misc : QC Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Mar 8 23:23 2000 Quant Results File: 030800W.RES

Method : C:\HPCHEM\1\DATA\030800\030800W.M (RTE Integrator)
Title : 8260 CALIBRATION FOR WATER 2/24/2000
Last Update : Wed Mar 08 23:04:31 2000
Response via : Initial Calibration



Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\030800\A23333.D Vial: 7
Acq On : 8 Mar 2000 10:56 pm Operator: KJ,TAG
Sample : ICV 50ppb (V00019,V00002) Inst : GC/MS Ins
Misc : QC Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\HPCHEM\1\DATA\030800\030800W.M (RTE Integrator)
Title : 8260 CALIBRATION FOR WATER 2/24/2000
Last Update : Wed Mar 08 23:00:18 2000
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	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Pentafluorobenzene	1.000	1.000	0.0	106	0.01
2	T	Dichlorodifluoromethane	0.331	0.380	-14.8	126	0.00
3	TP	Chloromethane	0.203	0.168	17.2	102	0.00
4	TC	Vinyl Chloride	0.215	0.235	-9.3	117	0.00
5	T	Bromomethane	0.160	0.183	-14.4	129	0.00
6	T	Chloroethane	0.106	0.080	24.5	72	0.00
7	T	Trichlorofluoromethane	0.657	0.686	-4.4	109	0.00
8	T	Acrolein	0.014	0.014	0.0	157#	0.00
9	T	Acrylonitrile	0.050	0.055	-10.0	130	0.02
10	TMC	1,1-Dichloroethene	0.282	0.288	-2.1	113	0.00
11	T	Acetone	0.021	0.027	-28.6#	108	0.01
12		Iodomethane	0.456	0.514	-12.7	108	0.00
13		Allylchloride	0.127	0.123	3.1	103	0.01
14		Carbon Disulfide	0.632	0.615	2.7	107	0.00
15		Acetonitrile	0.046	0.048	-4.3	114	0.00
16		Methylene Chloride	0.274	0.279	-1.8	112	0.00
17		trans-1,2-Dichloroethene	0.305	0.324	-6.2	114	0.00
18		MethylTertButylEther	0.699	0.751	-7.4	122	0.00
19	P	1,1-Dichloroethane	0.527	0.540	-2.5	113	0.02
20		Vinyl Acetate	0.154	0.174	-13.0	129	0.00
21		2,2-Dichloropropane	0.472	0.509	-7.8	109	0.00
22		cis-1,2-Dichloroethene	0.335	0.347	-3.6	112	0.01
23		2-Butanone	0.025	0.031	-24.0	115	0.01
24		Propionitrile	0.019	0.021	-10.5	142	0.00
25		Methacrylonitrile	0.104	0.112	-7.7	127	0.00
26		Bromochloromethane	0.202	0.210	-4.0	113	0.00
27	C	Chloroform	0.687	0.690	-0.4	109	0.00
28		1,1,1-Trichloroethane	0.662	0.692	-4.5	111	0.01
29		Carbon Tetrachloride	0.554	0.636	-14.8	114	0.01
30		1,4-Dioxane	0.002	0.003	-50.0#	181#	0.00
31		1,1-Dichloropropene	0.499	0.524	-5.0	113	0.00
32	S	1,2-Dichloroethane-d4	0.402	0.395	1.7	109	0.00
33	M	Benzene	0.855	0.868	-1.5	111	0.01
34		Isobutyl alcohol	0.007	0.008	-14.3	169#	0.04
35		1,2-Dichloroethane	0.426	0.426	0.0	109	0.00
36	M	Trichloroethene	0.480	0.479	0.2	110	0.01
37	C	1,2-Dichloropropane	0.343	0.360	-5.0	114	0.01
38		Dibromomethane	0.253	0.263	-4.0	109	0.00
39		Methylmethacrylate	0.185	0.212	-14.6	128	0.01
40		Bromodichloromethane	0.641	0.700	-9.2	110	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\030800\A23333.D Vial: 7
Acq On : 8 Mar 2000 10:56 pm Operator: KJ,TAG
Sample : ICV 50ppb (V00019,V00002) Inst : GC/MS Ins
Misc : QC Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\HPCHEM\1\DATA\030800\030800W.M (RTE Integrator)
Title : 8260 CALIBRATION FOR WATER 2/24/2000
Last Update : Wed Mar 08 23:00:18 2000
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	AvgRF	CCRF	%Dev	Area%	Dev(min)
41		2-Nitropropane	0.168	0.197	-17.3	119	0.01
42		2-Chloroethyl-vinyl ether	0.032	0.039	-21.9	121	0.00
43		cis-1,3-Dichloropropene	0.478	0.525	-9.8	113	0.01
44		4-Methyl-2-Pentanone	0.044	0.052	-18.2	131	0.00
45	I	Chlorobenzene-d5	1.000	1.000	0.0	107	0.00
46	S	Toluene-d8	1.165	1.176	-0.9	108	0.00
47	MC	Toluene	0.707	0.728	-3.0	110	0.00
48		trans-1,3-Dichloropropene	0.506	0.556	-9.9	117	0.00
49		Ethylmethacrylate	0.477	0.529	-10.9	125	0.00
50		1,1,2-Trichloroethane	0.320	0.342	-6.9	118	0.00
51		Tetrachloroethene	0.519	0.533	-2.7	106	0.00
52		1,3-Dichloropropane	0.570	0.603	-5.8	116	0.00
53		2-Hexanone	0.200	0.232	-16.0	119	0.01
54		Dibromochloromethane	0.652	0.708	-8.6	116	0.00
55		1,2-Dibromoethane	0.517	0.574	-11.0	119	0.00
56	MP	Chlorobenzene	0.949	0.992	-4.5	110	0.01
57		1,1,1,2-Tetrachloroethane	0.529	0.560	-5.9	109	0.01
58	C	Ethylbenzene	1.483	1.523	-2.7	108	0.00
59	G	total-Xylene	0.541	0.564	-4.3	108	0.00
60		Styrene	0.927	0.960	-3.6	107	0.01
61	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	92	0.00
62	P	Bromoform	0.747	0.937	-25.4#	116	0.00
63		Isopropylbenzene	2.495	2.923	-17.2	107	0.00
64		1,4-dichloro-2-Butene	0.121	0.165	-36.4#	154#	0.01
65	S	Bromofluorobenzene	1.260	1.232	2.2	93	0.00
66		Bromobenzene	0.854	0.845	1.1	93	0.00
67	P	1,1,2,2-Tetrachloroethane	0.843	0.910	-7.9	106	0.00
68		1,2,3-Trichloropropane	0.748	0.817	-9.2	109	0.00
69		n-Propylbenzene	2.910	2.990	-2.7	95	0.00
70		2-Chlorotoluene	1.768	1.755	0.7	93	0.00
71		4-Chlorotoluene	2.338	2.376	-1.6	93	0.00
72		1,3,5-Trimethylbenzene	2.199	2.167	1.5	90	0.00
73		Pentachloroethane	0.546	0.594	-8.8	97	0.00
74		tert-Butylbenzene	2.635	2.668	-1.3	92	0.00
75		1,2,4-Trimethylbenzene	2.248	2.210	1.7	90	0.00
76		sec-Butylbenzene	3.004	2.984	0.7	91	0.00
77		1,3-Dichlorobenzene	1.407	1.422	-1.1	93	0.00
78		Isopropyltoluene	2.504	2.482	0.9	90	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\030800\A23333.D Vial: 7
Acq On : 8 Mar 2000 10:56 pm Operator: KJ,TAG
Sample : ICV 50ppb (V00019,V00002) Inst : GC/MS Ins
Misc : QC Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\HPCHEM\1\DATA\030800\030800W.M (RTE Integrator)
Title : 8260 CALIBRATION FOR WATER 2/24/2000
Last Update : Wed Mar 08 23:00:18 2000
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	AvgRF	CCRF	%Dev	Area%	Dev(min)
79	1,4-Dichlorobenzene	1.485	1.474	0.7	91	0.00
80	1,2-Dichlorobenzene	1.287	1.334	-3.7	93	-0.02
81	n-Butylbenzene	2.379	2.483	-4.4	94	0.00
82	1,2-Dibromo-3-chloropropane	0.230	0.268	-16.5	121	0.00
83	1,2,4-trichlorobenzene	1.219	1.294	-6.2	101	0.00
84	Hexachlorobutadiene	0.979	1.045	-6.7	95	0.00
85	Naphthalene	1.790	1.943	-8.5	119	0.00
86	1,2,3-Trichlorobenzene	1.102	1.197	-8.6	108	0.00

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\030800\A23334.D Vial: 8
Acq On : 8 Mar 2000 11:31 pm Operator: KJ,TAG
Sample : WATER BLANK 5ml DF=1 Inst : GC/MS Ins
Misc : QC Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Mar 8 23:58 2000 Quant Results File: 030800W.RES

Quant Method : C:\HPCHEM\1\DATA\030800\030800W.M (RTE Integrator)
Title : 8260 CALIBRATION FOR WATER 2/24/2000
Last Update : Wed Mar 08 23:04:31 2000
Response via : Initial Calibration
DataAcq Meth : 030800W

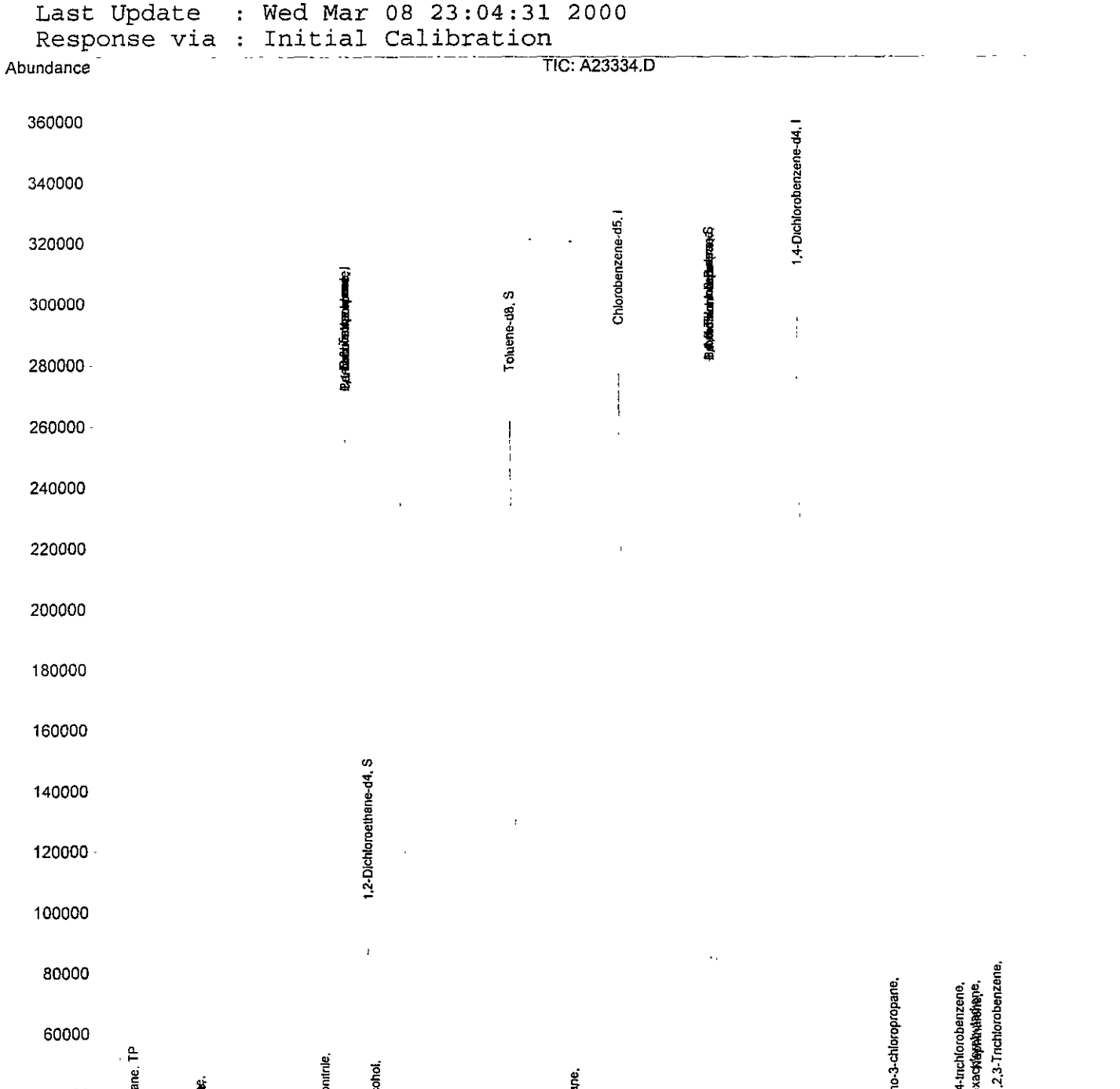
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.03	168	618096	50.00	ug\L	0.00
45) Chlorobenzene-d5	13.49	117	525063	50.00	ug\L	0.00
61) 1,4-Dichlorobenzene-d4	17.72	152	295972	50.00	ug\L	0.00
System Monitoring Compounds						
32) 1,2-Dichloroethane-d4	7.48	65	228579	45.98	ug\L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 91.96%			
46) Toluene-d8	10.93	98	593536	48.49	ug\L	0.00
Spiked Amount 50.000	Range 87 - 104		Recovery = 96.98%			
65) Bromofluorobenzene	15.63	95	416342	55.80	ug\L	0.00
Spiked Amount 50.000	Range 84 - 110		Recovery = 111.60%#			
Target Compounds						Qvalue
3) Chloromethane	1.89	50	2602	1.04	ug\L #	82
5) Bromomethane	2.67	94	161	-6.99	ug\L	91
8) Acrolein	3.12	56	210	-1.47	ug\L #	17
11) Acetone	3.33	58	1254	-7.80	ug\L	95
12) Iodomethane	3.46	142	6005	1.06	ug\L #	40
13) Allylchloride	3.50	76	2308	1.47	ug\L #	1
15) Acetonitrile	3.70	41	1339	2.34	ug\L #	52
24) Propionitrile	6.18	54	1218	5.20	ug\L #	54
25) Methacrylonitrile	6.44	41	4636	3.61	ug\L #	38
29) Carbon Tetrachloride	7.03	117	65584	9.57	ug\L #	5
30) 1,4-Dioxane	9.45	88	207	-21.30	ug\L #	20
31) 1,1-Dichloropropene	7.03	75	51564	8.36	ug\L #	49
34) Isobutyl alcohol	7.64	43	1246	76.81	ug\L #	58
41) 2-Nitropropane	12.30	43	2677	1.29	ug\L #	86
53) 2-Hexanone	12.30	43	2677	1.27	ug\L #	54
64) 1,4-dichloro-2-Butene	15.63	75	220447	246.88	ug\L #	1
68) 1,2,3-Trichloropropane	15.63	75	216317	48.86	ug\L #	100
82) 1,2-Dibromo-3-chloropropan	19.85	75	2903	2.13	ug\L	85
83) 1,2,4-trichlorobenzene	21.39	180	18454	2.56	ug\L	100
84) Hexachlorobutadiene	21.75	225	5849	1.01	ug\L	100
85) Naphthalene	21.81	128	64767	4.33	ug\L	100
86) 1,2,3-Trichlorobenzene	22.28	180	21230	3.25	ug\L	97

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

Quantitation Report

Data File : C:\HPCHEM\1\DATA\030800\A23334.D Vial: 8
Acq On : 8 Mar 2000 11:31 pm Operator: KJ,TAG
Sample : WATER BLANK 5ml DF=1 Inst : GC/MS Ins
Misc : QC Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Mar 8 23:58 2000 Quant Results File: 030800W.RES

Method : C:\HPCHEM\1\DATA\030800\030800W.M (RTE Integrator)
Title : 8260 CALIBRATION FOR WATER 2/24/2000
Last Update : Wed Mar 08 23:04:31 2000
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\030800\A23335.D Vial: 9
Acq On : 9 Mar 2000 12:05 am Operator: KJ,TAG
Sample : WATER BLANK 5ml DF=1 Inst : GC/MS Ins
Misc : QC Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Mar 9 0:30 2000 Quant Results File: 030800W.RES

Quant Method : C:\HPCHEM\1\DATA\030800\030800W.M (RTE Integrator)
Title : 8260 CALIBRATION FOR WATER 2/24/2000
Last Update : Wed Mar 08 23:04:31 2000
Response via : Initial Calibration
DataAcq Meth : 030800W

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.02	168	601128	50.00	ug\L	-0.02
45) Chlorobenzene-d5	13.50	117	508676	50.00	ug\L	0.01
61) 1,4-Dichlorobenzene-d4	17.73	152	334715	50.00	ug\L	0.00
System Monitoring Compounds						
32) 1,2-Dichloroethane-d4	7.47	65	226936	46.93	ug\L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 93.86%			
46) Toluene-d8	10.93	98	586624	49.47	ug\L	0.00
Spiked Amount 50.000	Range 87 - 104		Recovery = 98.94%			
65) Bromofluorobenzene	15.63	95	410111	48.61	ug\L	0.00
Spiked Amount 50.000	Range 84 - 110		Recovery = 97.22%			
Target Compounds						Qvalue
5) Bromomethane	2.43	94	774	-6.58	ug\L	100
12) Iodomethane	3.49	142	9478	1.73	ug\L #	56
29) Carbon Tetrachloride	7.04	117	64884	9.74	ug\L #	4
31) 1,1-Dichloropropene	7.04	75	50572	8.43	ug\L #	50
36) Trichloroethene	8.32	95	17807	3.09	ug\L #	3
64) 1,4-dichloro-2-Butene	15.63	75	219678	218.69	ug\L #	1
68) 1,2,3-Trichloropropane	15.63	75	219681	43.88	ug\L #	100
85) Naphthalene	21.81	128	16525	-1.18	ug\L	100

DMC

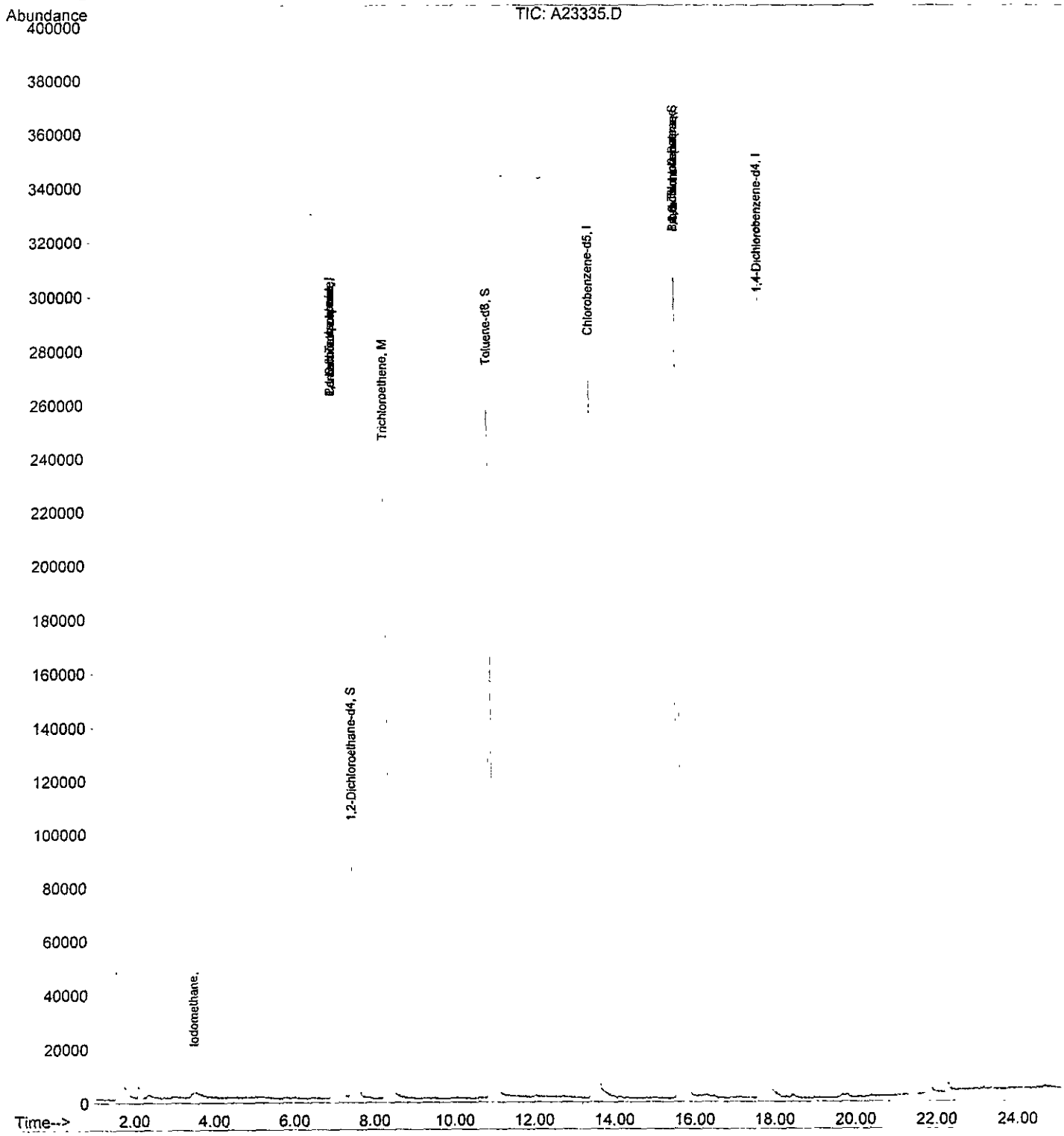
3/9/2000

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

Quantitation Report

Data File : C:\HPCHEM\1\DATA\030800\A23335.D Vial: 9
Acq On : 9 Mar 2000 12:05 am Operator: KJ,TAG
Sample : WATER BLANK 5ml DF=1 Inst : GC/MS Ins
Misc : QC Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Mar 9 0:30 2000 Quant Results File: 030800W.RES

Method : C:\HPCHEM\1\DATA\030800\030800W.M (RTE Integrator)
Title : 8260 CALIBRATION FOR WATER 2/24/2000
Last Update : Wed Mar 08 23:04:31 2000
Response via : Initial Calibration



VOA GC/MS CALIBRATION CHECKLIST
SW-846-8260B

DATE / INSTRUMENT: INST C	METHOD: 8260B
MATRIX: WATER	

Are all standards within expiration dates for both stock and serial standards? Y N NA

Are Tuning results compliant with method? Y N NA

Are all Initial Calibration RSDs compliant for CCCs and non-CCC compounds? Y N NA

If RSDs are non-compliant, was initial calibration curve constructed using one of the alternative methods from method 8000B? (List analytes below) Y N NA

Is the runlog completely filled out (including review signature/date)? Y N NA

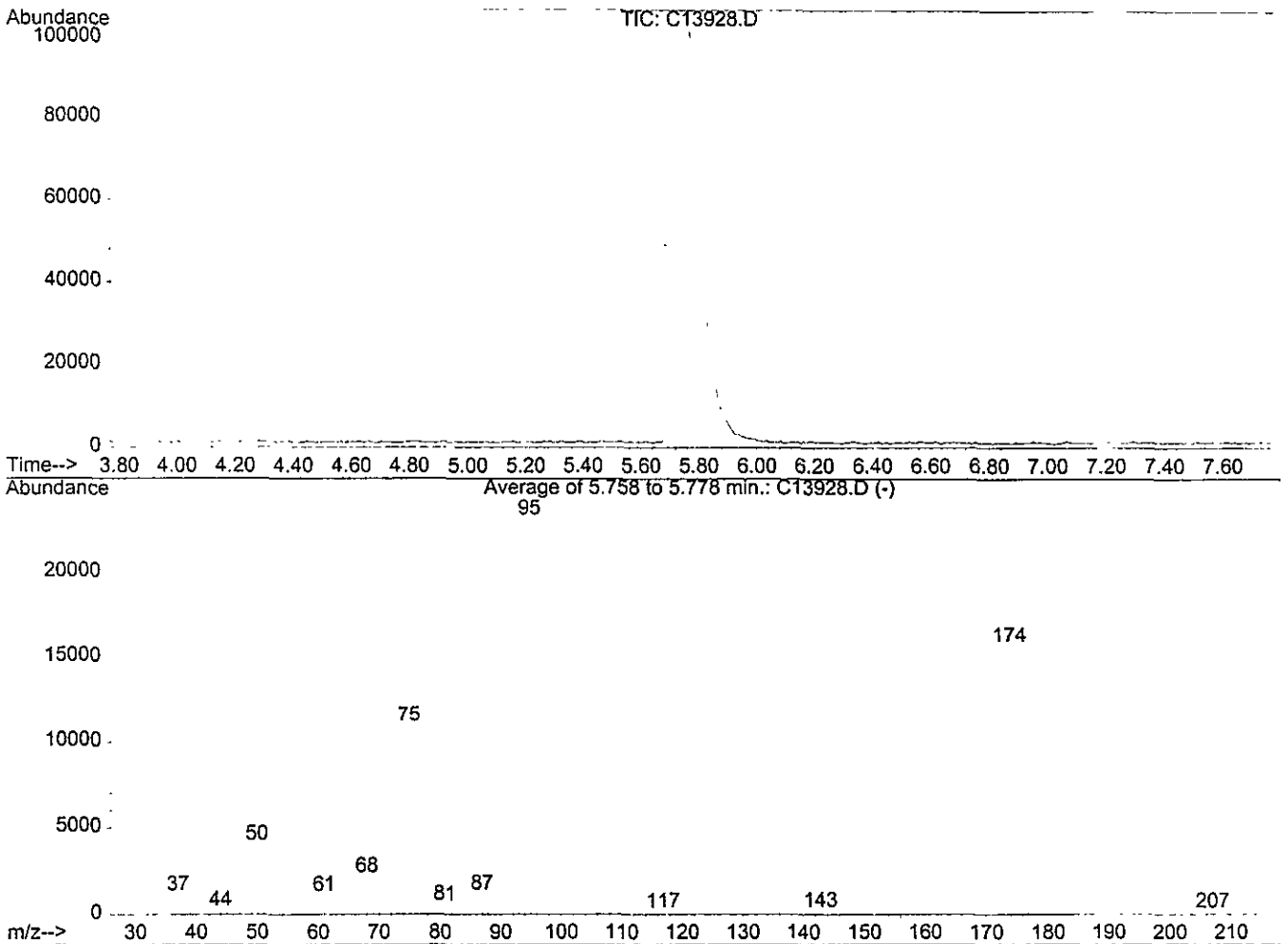
Are all mistakes single lined, initialled, and dated? Y N NA

Analyst: Thomas A Gatti	Reviewer: KT
Date: 3/13/2000 Time: 12:02	Date: 3/13/00 Time: 13:09

BFB

Data File : C:\HPCHEM\1\DATA\031200\C13928.D
Acq On : 12 Mar 2000 11:56 am
Sample : BFB 50ng V99050
Misc : QC
MS Integration Params: rteint.p
Method : C:\HPCHEM\1\METHODS\BFB01.M (RTE Integrator)
Title :

Vial: 1
Operator: KJ/TAG
Inst : VOC MS #3
Multiplr: 1.00



AutoFind: Scans 460, 461, 462; Background Corrected with Scan 449

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	17.0	3929	PASS
75	95	30	60	47.1	10894	PASS
95	95	100	100	100.0	23139	PASS
96	95	5	9	6.5	1500	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	67.5	15630	PASS
175	174	5	9	7.0	1095	PASS
176	174	95	101	97.3	15209	PASS
177	176	5	9	6.1	926	PASS

C13928.D BFB01.M Sun Mar 12 12:09:22 2000 RPT

Response Factor Report VOC MS #3

Method : C:\HPCHEM\1\DATA\031200\031200W.M (RTE Integrator)
Title : 8260 CALIBRATION FOR WATER 3/12/2000
Last Update : Mon Mar 13 09:56:43 2000
Response via : Initial Calibration

Calibration Files
2 =C13932.D 5 =C13931.D 20 =C13930.D
50 =C13929.D 100 =C13933.D 200 =C13934.D

		Compound	2	5	20	50	100	200	Avg	%RSD
1)	I	Pentafluorobenzene	----------	ISTD	----------					
2)	T	Dichlorodifluoromet		0.375	0.433	0.409	0.432	0.403	0.410	5.78
3)	TP	Chloromethane		0.216	0.228	0.223	0.247	0.236	0.230	5.09
4)	TC	Vinyl Chloride	0.347	0.289	0.340	0.312	0.343	0.319	0.325	6.93
5)	T	Bromomethane		0.267	0.270	0.289	0.299	0.248	0.275	7.29
6)	T	Chloroethane		0.176	0.203	0.161	0.167	0.148	0.171	12.04
7)	T	Trichlorofluorometh		0.567	0.677	0.637	0.661	0.467	0.602	14.35
8)	T	Acrolein		0.015	0.016	0.016	0.018	0.019	0.017	8.06
9)	T	Acrylonitrile		0.041	0.047	0.047	0.055	0.050	0.048	10.01
10)	TMC	1,1-Dichloroethene		0.335	0.374	0.349	0.372	0.347	0.355	4.82
11)	T	Acetone		0.037	0.036	0.033	0.021	0.020	0.029	28.90
12)		Iodomethane		0.430	0.687	0.649	0.576	0.610	0.591	16.75
13)		Allylchloride		0.142	0.211	0.191	0.200	0.196	0.188	14.20
14)		Carbon Disulfide		0.892	0.957	0.944	0.962	0.909	0.933	3.31
15)		Acetonitrile		0.041	0.053	0.050	0.058	0.054	0.051	12.76
16)		Methylene Chloride		0.332	0.364	0.362	0.381	0.356	0.359	4.99
17)		trans-1,2-Dichloroe		0.346	0.419	0.394	0.414	0.401	0.395	7.33
18)		MethylTertButylEthe		0.428	0.581	0.541	0.509	0.292	0.470	24.32
19)	P	1,1-Dichloroethane		0.549	0.648	0.602	0.678	0.657	0.627	8.20
20)		Vinyl Acetate		0.177	0.180	0.174	0.187	0.180	0.180	2.60
21)		2,2-Dichloropropane		0.137	0.420	0.410	0.468	0.449	0.377	36.13
22)		cis-1,2-Dichloroeth		0.361	0.425	0.409	0.441	0.433	0.414	7.71
23)		2-Butanone		0.019	0.028	0.028	0.025	0.024	0.025	15.05
24)		Propionitrile		0.015	0.016	0.016	0.019	0.018	0.017	9.41
25)		Methacrylonitrile		0.086	0.092	0.090	0.104	0.097	0.094	7.39
26)		Bromochloromethane		0.197	0.231	0.223	0.241	0.234	0.225	7.59
27)	C	Chloroform		0.648	0.755	0.724	0.781	0.755	0.733	7.04
28)		1,1,1-Trichloroetha		0.492	0.623	0.606	0.655	0.634	0.602	10.63
29)		Carbon Tetrachlorid		0.450	0.551	0.545	0.578	0.552	0.535	9.18
30)		1,4-Dioxane		0.001	0.002	0.002	0.003	0.003	0.002	29.84
31)		1,1-Dichloropropene		0.532	0.623	0.651	0.666	0.627	0.620	8.44
32)	S	1,2-Dichloroethane-		0.378	0.351	0.344	0.368	0.355	0.359	3.81
33)	M	Benzene		0.985	1.149	1.075	1.192	1.144	1.109	7.29
34)		Isobutyl alcohol		0.007	0.006	0.005	0.007	0.006	0.006	10.71
35)		1,2-Dichloroethane		0.339	0.386	0.375	0.423	0.400	0.385	8.13
36)	M	Trichloroethene		0.446	0.508	0.480	0.531	0.512	0.496	6.67
37)	C	1,2-Dichloropropane		0.358	0.414	0.390	0.460	0.452	0.415	10.24
38)		Dibromomethane		0.262	0.297	0.292	0.328	0.309	0.298	8.10
39)		Methylmethacrylate		0.141	0.166	0.162	0.199	0.200	0.174	14.60
40)		Bromodichloromethan		0.558	0.666	0.691	0.767	0.749	0.686	12.05
41)		2-Nitropropane		0.040	0.042	0.042	0.059	0.059	0.049	20.14
42)		2-Chloroethyl-vinyl		0.001	0.003	0.014	0.004	0.018	0.008	91.59

(#) = Out of Range

Response Factor Report VOC MS #3

Method : C:\HPCHEM\1\DATA\031200\031200W.M (RTE Integrator)
Title : 8260 CALIBRATION FOR WATER 3/12/2000
Last Update : Mon Mar 13 09:56:43 2000
Response via : Initial Calibration

Calibration Files
2 =C13932.D 5 =C13931.D 20 =C13930.D
50 =C13929.D 100 =C13933.D 200 =C13934.D

		Compound	2	5	20	50	100	200	Avg	%RSD
43)		cis-1,3-Dichloropro	0.394	0.527	0.531	0.617	0.609	0.536		16.72
44)		4-Methyl-2-Pentanon	0.027	0.032	0.034	0.040	0.039	0.034		15.23
45)	I	Chlorobenzene-d5	ISTD							
46)	S	Toluene-d8	1.275	1.240	1.163	1.224	1.293	1.239		4.08
47)	MC	Toluene	0.666	0.815	0.762	0.831	0.853	0.785		9.55
48)		trans-1,3-Dichlorop	0.276	0.407	0.412	0.466	0.482	0.409		19.79
49)		Ethylmethacrylate	0.287	0.360	0.366	0.434	0.453	0.380		17.47
50)		1,1,2-Trichloroetha	0.254	0.306	0.297	0.334	0.340	0.306		11.18
51)		Tetrachloroethene	0.353	0.432	0.421	0.434	0.437	0.415		8.55
52)		1,3-Dichloropropane	0.461	0.556	0.536	0.594	0.601	0.550		10.19
53)		2-Hexanone	0.105	0.130	0.136	0.135	0.144	0.130		11.51
54)		Dibromochloromethan	0.395	0.509	0.515	0.554	0.565	0.508		13.25
55)		1,2-Dibromoethane	0.359	0.428	0.427	0.473	0.472	0.432		10.73
56)	MP	Chlorobenzene	0.834	1.005	0.958	1.011	0.999	0.961		7.70
57)		1,1,1,2-Tetrachloro	0.331	0.446	0.440	0.465	0.463	0.429		12.95
58)	C	Ethylbenzene	1.268	1.543	1.481	1.593	1.539	1.485		8.57
59)	G	total-Xylene	0.719	0.915	0.883	0.935	0.924	0.875		10.20
60)		Styrene	0.720	0.957	0.954	1.032	0.998	0.932		13.20
61)	I	1,2-Dichlorobenzene-d	ISTD							
62)	P	Bromoform	0.402	0.507	0.517	0.596	0.623	0.529		16.41
63)		Isopropylbenzene	2.314	2.875	2.703	3.068	3.121	2.816		11.57
64)		1,4-dichloro-2-Bute	0.084	0.138	0.139	0.167	0.171	0.140		24.93
65)	S	Bromofluorobenzene	1.339	1.254	1.128	1.253	1.285	1.252		6.18
66)		Bromobenzene	0.651	0.788	0.739	0.827	0.833	0.768		9.82
67)	P	1,1,2,2-Tetrachloro	0.738	0.824	0.794	0.927	0.927	0.842		9.95
68)		1,2,3-Trichloroprop	0.513	0.712	0.709	0.844	0.848	0.725		18.85
69)		n-Propylbenzene	2.802	3.494	3.063	3.550	3.453	3.272		9.94
70)		2-Chlorotoluene	1.658	1.870	1.878	2.045	2.131	1.917		9.51
71)		4-Chlorotoluene	2.170	2.674	2.464	2.742	2.692	2.548		9.30
72)		1,3,5-Trimethylbenz	1.942	2.330	2.137	2.409	2.457	2.255		9.47
73)		Pentachloroethane	0.345	0.499	0.493	0.544	0.554	0.487		17.22
74)		tert-Butylbenzene	2.365	2.975	2.817	3.096	3.117	2.874		10.73
75)		1,2,4-Trimethylbenz	1.948	2.355	2.175	2.429	2.400	2.261		8.89
76)		sec-Butylbenzene	2.950	3.697	3.444	3.790	3.812	3.539		10.17
77)		1,3-Dichlorobenzene	1.201	1.418	1.280	1.428	1.391	1.343		7.37
78)		Isopropyltoluene	2.326	2.842	2.642	2.905	2.938	2.731		9.29
79)		1,4-Dichlorobenzene	1.492	1.690	1.572	1.648	1.677	1.616		5.14
80)		1,2-Dichlorobenzene	1.182	1.345	1.249	1.341	1.334	1.290		5.62
81)		n-Butylbenzene	2.263	2.880	2.687	2.969	2.978	2.755		10.86
82)		1,2-Dibromo-3-chlor	0.135	0.140	0.142	0.162	0.167	0.149		9.60
83)		1,2,4-trichlorobenz	0.963	1.018	0.915	0.977	0.972	0.969		3.81

(#) = Out of Range

Response Factor Report VOC MS #3

Method : C:\HPCHEM\1\DATA\031200\031200W.M (RTE Integrator)
Title : 8260 CALIBRATION FOR WATER 3/12/2000
Last Update : Mon Mar 13 09:56:43 2000
Response via : Initial Calibration

Calibration Files
2 =C13932.D 5 =C13931.D 20 =C13930.D
50 =C13929.D 100 =C13933.D 200 =C13934.D

		Compound	2	5	20	50	100	200	Avg	%RSD
84)		Hexachlorobutadiene	0.635	0.710	0.624	0.659	0.661	0.658		5.08
85)	T	Naphthalene	1.702	1.409	1.260	1.454	1.502	1.465		10.94
86)		1,2,3-Trichlorobenz	0.945	0.836	0.755	0.796	0.784	0.823		9.01

(#) = Out of Range

2)	T	Dichlorodifluoromet	0.375	0.433	0.409	0.432	0.403	0.41	5.78
3)	TP	Chloromethane	0.216	0.228	0.223	0.247	0.236	0.23	5.09
4)	TC	Vinyl Chloride 0.34	0.289	0.34	0.312	0.343	0.319	0.325	6.93
5)	T	Bromomethane	0.267	0.27	0.289	0.299	0.248	0.275	7.29
6)	T	Chloroethane	0.176	0.203	0.161	0.167	0.148	0.171	12.04
7)	T	Trichlorofluorometh	0.567	0.677	0.637	0.661	0.467	0.602	14.35
8)	T	Acrolein	0.015	0.016	0.016	0.018	0.019	0.017	8.06
9)	T	Acrylonitrile	0.041	0.047	0.047	0.055	0.05	0.048	10.01
10)	TMC	1,1-Dichloroethene	0.335	0.374	0.349	0.372	0.347	0.355	4.82
11)	T	Acetone	0.037	0.036	0.033	0.021	0.02	0.029	28.9
12)		Iodomethane	0.43	0.687	0.649	0.576	0.61	0.591	16.75
13)		Allylchloride	0.142	0.211	0.191	0.2	0.196	0.188	14.2
14)		Carbon Disulfide	0.892	0.957	0.944	0.962	0.909	0.933	3.31
15)		Acetonitrile	0.041	0.053	0.05	0.058	0.054	0.051	12.76
16)		Methylene Chloride	0.332	0.364	0.362	0.381	0.356	0.359	4.99
17)		trans-1,2-Dichloroe	0.346	0.419	0.394	0.414	0.401	0.395	7.33
18)		MethylTertButylEthe	0.428	0.581	0.541	0.509	0.292	0.47	24.32
19)	P	1,1-Dichloroethane	0.549	0.648	0.602	0.678	0.657	0.627	8.2
20)		Vinyl Acetate	0.177	0.18	0.174	0.187	0.18	0.18	2.6
21)		2,2-Dichloropropane	0.137	0.42	0.41	0.468	0.449	0.377	36.13
22)		cis-1,2-Dichloroeth	0.361	0.425	0.409	0.441	0.433	0.414	7.71
23)		2-Butanone	0.019	0.028	0.028	0.025	0.024	0.025	15.05
24)		Propionitrile	0.015	0.016	0.016	0.019	0.018	0.017	9.41
25)		Methacrylonitrile	0.086	0.092	0.09	0.104	0.097	0.094	7.39
26)		Bromochloromethane	0.197	0.231	0.223	0.241	0.234	0.225	7.59
27)	C	Chloroform	0.648	0.755	0.724	0.781	0.755	0.733	7.04
28)		1,1,1-Trichloroetha	0.492	0.623	0.606	0.655	0.634	0.602	10.63
29)		Carbon Tetrachlorid	0.45	0.551	0.545	0.578	0.552	0.535	9.18
30)		1,4-Dioxane	0.001	0.002	0.002	0.003	0.003	0.002	29.84
31)		1,1-Dichloropropene	0.532	0.623	0.651	0.666	0.627	0.62	8.44
32)	S	1,2-Dichloroethane-	0.378	0.351	0.344	0.368	0.355	0.359	3.81
33)	M	Benzene	0.985	1.149	1.075	1.192	1.144	1.109	7.29
34)		Isobutyl alcohol	0.007	0.006	0.005	0.007	0.006	0.006	10.71
35)		1,2-Dichloroethane	0.339	0.386	0.375	0.423	0.4	0.385	8.13
36)	M	Trichloroethene	0.446	0.508	0.48	0.531	0.512	0.496	6.67
37)	C	1,2-Dichloropropane	0.358	0.414	0.39	0.46	0.452	0.415	10.24
38)		Dibromomethane	0.262	0.297	0.292	0.328	0.309	0.298	8.1
39)		Methylmethacrylate	0.141	0.166	0.162	0.199	0.2	0.174	14.6
40)		Bromodichloromethan	0.558	0.666	0.691	0.767	0.749	0.686	12.05
41)		2-Nitropropane	0.04	0.042	0.042	0.059	0.059	0.049	20.14
42)		2-Chloroethyl-vinyl	0.001	0.003	0.014	0.004	0.018	0.008	91.59
43)		cis-1,3-Dichloropro	0.394	0.527	0.531	0.617	0.609	0.536	16.72
44)		4-Methyl-2-Pentanon	0.027	0.032	0.034	0.04	0.039	0.034	15.23
46)	S	Toluene-d8	1.275	1.24	1.163	1.224	1.293	1.239	4.08
47)	MC	Toluene	0.666	0.815	0.762	0.831	0.853	0.785	9.55
48)		trans-1,3-Dichlorop	0.276	0.407	0.412	0.466	0.482	0.409	19.79
49)		Ethylmethacrylate	0.287	0.36	0.366	0.434	0.453	0.38	17.47
50)		1,1,2-Trichloroetha	0.254	0.306	0.297	0.334	0.34	0.306	11.18
51)		Tetrachloroethene	0.353	0.432	0.421	0.434	0.437	0.415	8.55

52)		1,3-Dichloropropane	0.461	0.556	0.536	0.594	0.601	0.55	10.19
53)		2-Hexanone	0.105	0.13	0.136	0.135	0.144	0.13	11.51
54)		Dibromochloromethan	0.395	0.509	0.515	0.554	0.565	0.508	13.25
55)		1,2-Dibromoethane	0 359	0.428	0.427	0.473	0.472	0.432	10.73
56)	MP	Chlorobenzene	0.834	1.005	0.958	1.011	0.999	0.961	7.7
57)		1,1,1,2-Tetrachloro	0.331	0.446	0.44	0.465	0.463	0.429	12.95
58)	C	Ethylbenzene	1.268	1.543	1.481	1.593	1.539	1.485	8.57
59)	G	total-Xylene	0.719	0.915	0.883	0.935	0.924	0.875	10.2
60)		Styrene	0.72	0.957	0.954	1.032	0.998	0.932	13.2
62)	P	Bromoform	0.402	0.507	0.517	0.596	0.623	0.529	16.41
63)		Isopropylbenzene	2.314	2.875	2.703	3.068	3.121	2.816	11.57
64)		1,4-dichloro-2-Bute	0.084	0.138	0.139	0.167	0.171	0.14	24.93
65)	S	Bromofluorobenzene	1.339	1.254	1.128	1.253	1.285	1.252	6.18
66)		Bromobenzene	0.651	0.788	0.739	0.827	0.833	0.768	9.82
67)	P	1,1,2,2-Tetrachloro	0.738	0.824	0.794	0.927	0.927	0.842	9.95
68)		1,2,3-Trichloroprop	0.513	0.712	0.709	0.844	0.848	0.725	18.85
69)		n-Propylbenzene	2.802	3.494	3.063	3.55	3.453	3.272	9.94
70)		2-Chlorotoluene	1.658	1.87	1.878	2.045	2.131	1.917	9.51
71)		4-Chlorotoluene	2.17	2.674	2.464	2.742	2.692	2.548	9.3
72)		1,3,5-Trimethylbenz	1.942	2.33	2.137	2.409	2.457	2.255	9.47
73)		Pentachloroethane	0.345	0.499	0.493	0.544	0.554	0.487	17.22
74)		tert-Butylbenzene	2.365	2.975	2.817	3.096	3.117	2.874	10.73
75)		1,2,4-Trimethylbenz	1.948	2.355	2.175	2.429	2.4	2.261	8.89
76)		sec-Butylbenzene	2.95	3.697	3.444	3.79	3.812	3.539	10.17
77)		1,3-Dichlorobenzene	1.201	1.418	1.28	1.428	1.391	1.343	7.37
78)		Isopropyltoluene	2.326	2.842	2.642	2.905	2.938	2.731	9.29
79)		1,4-Dichlorobenzene	1.492	1.69	1.572	1.648	1.677	1.616	5.14
80)		1,2-Dichlorobenzene	1.182	1.345	1.249	1.341	1.334	1.29	5.62
81)		n-Butylbenzene	2.263	2.88	2.687	2.969	2.978	2.755	10.86
82)		1,2-Dibromo-3-chlor	0.135	0.14	0.142	0.162	0.167	0.149	9.6
83)		1,2,4-trichlorobenz	0.963	1.018	0.915	0.977	0.972	0.969	3.81
84)		Hexachlorobutadiene	0.635	0.71	0.624	0.659	0.661	0.658	5.08
85)	T	Naphthalene	1.702	1.409	1.26	1.454	1.502	1.465	10.94
86)		1,2,3-Trichlorobenz	0.945	0.836	0.755	0.796	0.784	0.823	9.01

12.0482

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\031200\C13929.D Vial: 1
Acq On : 12 Mar 2000 1:07 pm Operator: KJ/TAG
Sample : ICAL 50ppb (V00019,V00002) Inst : VOC MS #3
Misc : QC Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Mar 13 9:44 2000 Quant Results File: 031200W.RES

Quant Method : C:\HPCHEM\1\DATA\031200\031200W.M (RTE Integrator)
Title : 8260 CALIBRATION FOR WATER 3/12/2000
Last Update : Mon Mar 13 09:24:50 2000
Response via : Initial Calibration
DataAcq Meth : 031200W

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Pentafluorobenzene	6.22	168	730168	50.00	ug\L		0.00
45) Chlorobenzene-d5	12.59	117	712889	50.00	ug\L		0.00
61) 1,2-Dichlorobenzene-d4	16.73	152	431600	50.00	ug\L		0.00
System Monitoring Compounds							
32) 1,2-Dichloroethane-d4	6.71	65	251005	47.86	ug\L		0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 95.72%				
46) Toluene-d8	10.06	98	828993	46.93	ug\L		0.00
Spiked Amount 50.000	Range 87 - 104		Recovery = 93.86%				
65) Bromofluorobenzene	14.69	95	486857	45.06	ug\L		0.00
Spiked Amount 50.000	Range 84 - 110		Recovery = 90.12%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.49	85	298358	49.80	ug\L		100
3) Chloromethane	1.69	50	163116	48.56	ug\L		100
4) Vinyl Chloride	1.72	62	227817	48.01	ug\L		100
5) Bromomethane	1.99	94	210784	52.55	ug\L		100
6) Chloroethane	2.07	64	117528	49.05	ug\L		100
7) Trichlorofluoromethane	2.27	101	464797	52.89	ug\L	#	100
8) Acrolein	2.70	56	23536	92.36	ug\L		100
9) Acrylonitrile	3.66	53	68556	97.56	ug\L		100
10) 1,1-Dichloroethene	2.76	96	254791	49.08	ug\L		100
11) Acetone	2.87	58	23974	56.14	ug\L		100
12) Iodomethane	2.94	142	474152	53.33	ug\L		100
13) Allylchloride	3.15	76	139243	51.02	ug\L		100
14) Carbon Disulfide	2.99	76	689309	50.61	ug\L		100
15) Acetonitrile	3.15	41	368195	491.18	ug\L	#	100
16) Methylene Chloride	3.32	84	264358	50.43	ug\L		100
17) trans-1,2-Dichloroethene	3.63	96	287900	49.92	ug\L		100
18) MethylTertButylEther	3.63	73	395045	64.63	ug\L		100
19) 1,1-Dichloroethane	4.22	63	439861	48.04	ug\L		100
20) Vinyl Acetate	4.33	43	127398	48.57	ug\L		100
21) 2,2-Dichloropropane	5.16	77	299431	49.74	ug\L		100
22) cis-1,2-Dichloroethene	5.22	96	298313	49.38	ug\L		100
23) 2-Butanone	5.30	72	20418	56.23	ug\L		100
24) Propionitrile	5.46	54	120041	484.01	ug\L		100
25) Methacrylonitrile	5.70	41	654437	478.20	ug\L		100
26) Bromochloromethane	5.66	128	162850	49.49	ug\L		100
27) Chloroform	5.84	83	528976	49.44	ug\L		100
28) 1,1,1-Trichloroethane	6.06	97	442679	50.37	ug\L		100

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

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\031200\C13929.D Vial: 1
Acq On : 12 Mar 2000 1:07 pm Operator: KJ/TAG
Sample : ICAL 50ppb (V00019,V00002) Inst : VOC MS #3
Misc : QC Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Mar 13 9:44 2000 Quant Results File: 031200W.RES

Quant Method : C:\HPCHEM\1\DATA\031200\031200W.M (RTE Integrator)
Title : 8260 CALIBRATION FOR WATER 3/12/2000
Last Update : Mon Mar 13 09:24:50 2000
Response via : Initial Calibration
DataAcq Meth : 031200W

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
29)	Carbon Tetrachloride	6.33	119	398185m	33.45	ug\L		
30)	1,4-Dioxane	8.67	88	32554	1042.14	ug\L	#	100
31)	1,1-Dichloropropene	6.36	75	475669	52.54	ug\L		100
33)	Benzene	6.73	78	784812	48.46	ug\L		100
34)	Isobutyl alcohol	6.93	43	79256	898.03	ug\L		100
35)	1,2-Dichloroethane	6.84	62	273720	48.74	ug\L		100
36)	Trichloroethene	7.91	95	350455	48.43	ug\L		100
37)	1,2-Dichloropropane	8.34	63	284959	47.05	ug\L		100
38)	Dibromomethane	8.57	93	212966	48.99	ug\L		100
39)	Methylmethacrylate	8.65	69	118233	46.64	ug\L		100
40)	Bromodichloromethane	8.89	83	504809	50.36	ug\L		100
41)	2-Nitropropane	9.33	43	30571	41.27	ug\L		100
42)	2-Chloroethyl-vinyl ether	9.40	63	9863	59.57	ug\L	#	100
43)	cis-1,3-Dichloropropene	9.66	75	387373	49.51	ug\L		100
44)	4-Methyl-2-Pentanone	9.99	85	24649	49.17	ug\L	#	100
47)	Toluene	10.17	92	543059	48.50	ug\L		100
48)	trans-1,3-Dichloropropene	10.69	75	293728	50.42	ug\L		100
49)	Ethylmethacrylate	10.88	69	260587	48.11	ug\L		100
50)	1,1,2-Trichloroethane	10.99	83	211918	48.54	ug\L		100
51)	Tetrachloroethene	11.10	164	300339	50.72	ug\L		100
52)	1,3-Dichloropropane	11.25	76	382242	48.78	ug\L		100
53)	2-Hexanone	11.47	43	96730	52.22	ug\L		100
54)	Dibromochloromethane	11.65	129	366849	50.68	ug\L		100
55)	1,2-Dibromoethane	11.78	107	304214	49.42	ug\L		100
56)	Chlorobenzene	12.63	112	682714	49.81	ug\L		100
57)	1,1,1,2-Tetrachloroethane	12.83	131	313831	51.30	ug\L		100
58)	Ethylbenzene	12.85	91	1055471	49.86	ug\L		100
59)	total-Xylene	13.06	106	1259612m	100.93	ug\L		
60)	Styrene	13.81	104	680394	51.18	ug\L		100
62)	Bromoform	14.14	173	223233	48.89	ug\L		100
63)	Isopropylbenzene	14.42	105	1166673	47.99	ug\L		100
64)	1,4-dichloro-2-Butene	14.63	53	59844	44.86	ug\L	#	59
66)	Bromobenzene	14.92	156	319019	48.15	ug\L		100
67)	1,1,2,2-Tetrachloroethane	15.08	83	342571	47.14	ug\L		100
68)	1,2,3-Trichloropropane	15.11	75	306173	48.91	ug\L	#	100
69)	n-Propylbenzene	15.16	91	1322152	46.81	ug\L		100
70)	2-Chlorotoluene	15.27	91	810706	49.00	ug\L		100
71)	4-Chlorotoluene	15.47	91	1063413	48.34	ug\L		100
72)	1,3,5-Trimethylbenzene	15.48	105	922304	47.38	ug\L		100
73)	Pentachloroethane	16.09	167	212823	50.63	ug\L		100

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

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\031200\C13929.D Vial: 1
Acq On : 12 Mar 2000 1:07 pm Operator: KJ/TAG
Sample : ICAL 50ppb (V00019,V00002) Inst : VOC MS #3
Misc : QC Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Mar 13 9:44 2000 Quant Results File: 031200W.RES

Quant Method : C:\HPCHEM\1\DATA\031200\031200W.M (RTE Integrator)
Title : 8260 CALIBRATION FOR WATER 3/12/2000
Last Update : Mon Mar 13 09:24:50 2000
Response via : Initial Calibration
DataAcq Meth : 031200W

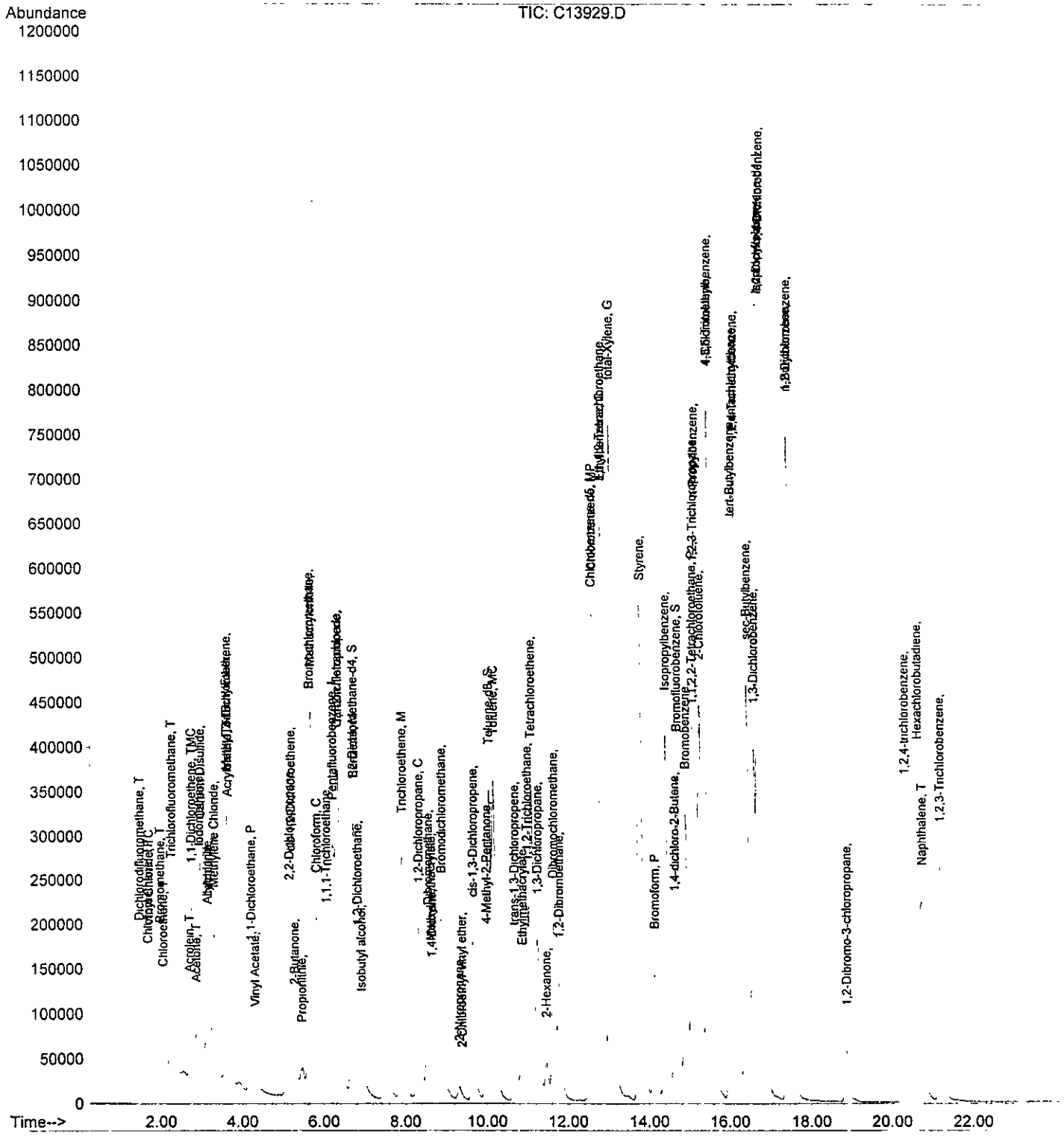
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
74)	tert-Butylbenzene	16.04	119	1215658	49.00	ug\L	100
75)	1,2,4-Trimethylbenzene	16.13	105	938901	48.10	ug\L	100
76)	sec-Butylbenzene	16.43	105	1486238	48.66	ug\L	100
77)	1,3-Dichlorobenzene	16.61	146	552473	47.64	ug\L	100
78)	Isopropyltoluene	16.71	119	1140466	48.39	ug\L	100
79)	1,4-Dichlorobenzene	16.77	146	678590	48.65	ug\L	100
80)	1,2-Dichlorobenzene	17.42	146	539082	48.40	ug\L	100
81)	n-Butylbenzene	17.44	91	1159646	48.76	ug\L	100
82)	1,2-Dibromo-3-chloropropan	18.88	75	61354	47.62	ug\L	100
83)	1,2,4-trichlorobenzene	20.31	180	394937	47.21	ug\L	100
84)	Hexachlorobutadiene	20.63	225	269132	47.41	ug\L	100
85)	Naphthalene	20.75	128	543684	42.98	ug\L	100
86)	1,2,3-Trichlorobenzene	21.18	180	325659	45.84	ug\L	100

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

Quantitation Report

Data File : C:\HPCHEM\1\DATA\031200\C13929.D Vial: 1
Acq On : 12 Mar 2000 1:07 pm Operator: KJ/TAG
Sample : ICAL 50ppb (V00019,V00002) Inst : VOC MS #3
Misc : QC Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Mar 13 9:44 2000 Quant Results File: 031200W.RES

Method : C:\HPCHEM\1\DATA\031200\031200W.M (RTE Integrator)
Title : 8260 CALIBRATION FOR WATER 3/12/2000
Last Update : Mon Mar 13 09:56:43 2000
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\031200\C13930.D Vial: 2
Acq On : 12 Mar 2000 2:17 pm Operator: KJ/TAG
Sample : ICAL 20ppb (V00019,V00002) Inst : VOC MS #3
Misc : QC Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Mar 13 9:44 2000 Quant Results File: 031200W.RES

Quant Method : C:\HPCHEM\1\DATA\031200\031200W.M (RTE Integrator)
Title : 8260 CALIBRATION FOR WATER 3/12/2000
Last Update : Mon Mar 13 09:24:50 2000
Response via : Initial Calibration
DataAcq Meth : 031200W

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	6.22	168	729047	50.00	ug\L	0.00
45) Chlorobenzene-d5	12.59	117	687678	50.00	ug\L	0.00
61) 1,2-Dichlorobenzene-d4	16.75	152	400807	50.00	ug\L	0.01
System Monitoring Compounds						
32) 1,2-Dichloroethane-d4	6.70	65	102455	19.56	ug\L	-0.02
Spiked Amount 50.000	Range 80 - 120		Recovery = 39.12%#			
46) Toluene-d8	10.06	98	341112	20.02	ug\L	0.00
Spiked Amount 50.000	Range 87 - 104		Recovery = 40.04%#			
65) Bromofluorobenzene	14.70	95	201029	20.04	ug\L	0.00
Spiked Amount 50.000	Range 84 - 110		Recovery = 40.08%#			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.48	85	126239	21.10	ug\L	99
3) Chloromethane	1.77	50	66580	19.85	ug\L	100
4) Vinyl Chloride	1.71	62	99232	20.94	ug\L	98
5) Bromomethane	1.97	94	78840	19.68	ug\L	99
6) Chloroethane	2.05	64	59145	21.76	ug\L	98
7) Trichlorofluoromethane	2.27	101	197390	22.49	ug\L #	100
8) Acrolein	2.68	56	9466	41.04	ug\L	98
9) Acrylonitrile	3.63	53	27510	39.21	ug\L	93
10) 1,1-Dichloroethene	2.75	96	109187	21.07	ug\L	98
11) Acetone	2.84	58	10459	24.53	ug\L	96
12) Iodomethane	2.92	142	200446	22.33	ug\L	96
13) Allylchloride	3.14	76	61646	22.62	ug\L	94
14) Carbon Disulfide	2.97	76	279122	20.53	ug\L	98
15) Acetonitrile	3.15	41	156006	208.43	ug\L #	99
16) Methylene Chloride	3.30	84	106091	20.27	ug\L	100
17) trans-1,2-Dichloroethene	3.61	96	122236	21.23	ug\L	99
18) MethylTertButylEther	3.60	73	169449	10.80	ug\L	99
19) 1,1-Dichloroethane	4.21	63	189056	20.68	ug\L	100
20) Vinyl Acetate	4.31	43	52536	20.06	ug\L	99
21) 2,2-Dichloropropane	5.13	77	122406m	23.89	ug\L	
22) cis-1,2-Dichloroethene	5.19	96	123877	20.54	ug\L	98
23) 2-Butanone	5.29	72	8104	20.36	ug\L	90
24) Propionitrile	5.46	54	46221	186.65	ug\L #	96
25) Methacrylonitrile	5.69	41	267287	195.61	ug\L	99
26) Bromochloromethane	5.64	128	67349	20.50	ug\L	98
27) Chloroform	5.83	83	220210	20.61	ug\L	99
28) 1,1,1-Trichloroethane	6.06	97	181612	20.69	ug\L #	85

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

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\031200\C13930.D Vial: 2
Acq On : 12 Mar 2000 2:17 pm Operator: KJ/TAG
Sample : ICAL 20ppb (V00019,V00002) Inst : VOC MS #3
Misc : QC Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Mar 13 9:44 2000 Quant Results File: 031200W.RES

Quant Method : C:\HPCHEM\1\DATA\031200\031200W.M (RTE Integrator)
Title : 8260 CALIBRATION FOR WATER 3/12/2000
Last Update : Mon Mar 13 09:24:50 2000
Response via : Initial Calibration
DataAcq Meth : 031200W

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
29)	Carbon Tetrachloride	6.32	119	160804m	13.53	ug\L		
30)	1,4-Dioxane	8.65	88	12152	389.62	ug\L	#	98
31)	1,1-Dichloropropene	6.35	75	181760	20.11	ug\L		94
33)	Benzene	6.73	78	334999	20.72	ug\L		100
34)	Isobutyl alcohol	6.93	43	33402	364.16	ug\L		94
35)	1,2-Dichloroethane	6.84	62	112505	20.06	ug\L		99
36)	Trichloroethene	7.90	95	148149	20.50	ug\L		98
37)	1,2-Dichloropropane	8.32	63	120737	19.96	ug\L		100
38)	Dibromomethane	8.55	93	86643	19.96	ug\L		99
39)	Methylmethacrylate	8.64	69	48414	19.13	ug\L		99
40)	Bromodichloromethane	8.88	83	194184	19.40	ug\L		99
41)	2-Nitropropane	9.32	43	12318	20.97	ug\L		93
42)	2-Chloroethyl-vinyl ether	9.41	63	906	24.78	ug\L	#	100
43)	cis-1,3-Dichloropropene	9.66	75	153801	19.69	ug\L		99
44)	4-Methyl-2-Pentanone	10.00	85	9324	18.63	ug\L	#	94
47)	Toluene	10.17	92	224141	20.75	ug\L		99
48)	trans-1,3-Dichloropropene	10.69	75	111938	19.92	ug\L		98
49)	Ethylmethacrylate	10.87	69	98969	18.94	ug\L	#	95
50)	1,1,2-Trichloroethane	11.00	83	84079	19.96	ug\L		98
51)	Tetrachloroethene	11.11	164	118904	20.82	ug\L		98
52)	1,3-Dichloropropane	11.25	76	152971	20.24	ug\L		100
53)	2-Hexanone	11.48	43	35880	20.08	ug\L		98
54)	Dibromochloromethane	11.66	129	140112	20.07	ug\L		98
55)	1,2-Dibromoethane	11.80	107	117781	19.84	ug\L		100
56)	Chlorobenzene	12.64	112	276364	20.90	ug\L		98
57)	1,1,1,2-Tetrachloroethane	12.82	131	122733	20.80	ug\L		98
58)	Ethylbenzene	12.85	91	424410	20.78	ug\L		100
59)	total-Xylene	13.06	106	503509m	41.82	ug\L		
60)	Styrene	13.80	104	263197	20.53	ug\L		99
62)	Bromoform	14.14	173	81283	19.17	ug\L	#	97
63)	Isopropylbenzene	14.42	105	460944	20.42	ug\L		99
64)	1,4-dichloro-2-Butene	14.64	53	22062	20.96	ug\L	#	55
66)	Bromobenzene	14.92	156	126352	20.54	ug\L		97
67)	1,1,2,2-Tetrachloroethane	15.08	83	132068	19.57	ug\L		100
68)	1,2,3-Trichloropropane	15.11	75	114098	19.63	ug\L	#	100
69)	n-Propylbenzene	15.16	91	560165	21.35	ug\L		97
70)	2-Chlorotoluene	15.28	91	299854	19.52	ug\L		95
71)	4-Chlorotoluene	15.48	91	428704	20.99	ug\L		99
72)	1,3,5-Trimethylbenzene	15.49	105	373548	20.67	ug\L		98
73)	Pentachloroethane	16.10	167	79932	20.48	ug\L		98

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

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\031200\C13930.D Vial: 2
Acq On : 12 Mar 2000 2:17 pm Operator: KJ/TAG
Sample : ICAL 20ppb (V00019,V00002) Inst : VOC MS #3
Misc : QC Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Mar 13 9:44 2000 Quant Results File: 031200W.RES

Quant Method : C:\HPCHEM\1\DATA\031200\031200W.M (RTE Integrator)
Title : 8260 CALIBRATION FOR WATER 3/12/2000
Last Update : Mon Mar 13 09:24:50 2000
Response via : Initial Calibration
DataAcq Meth : 031200W

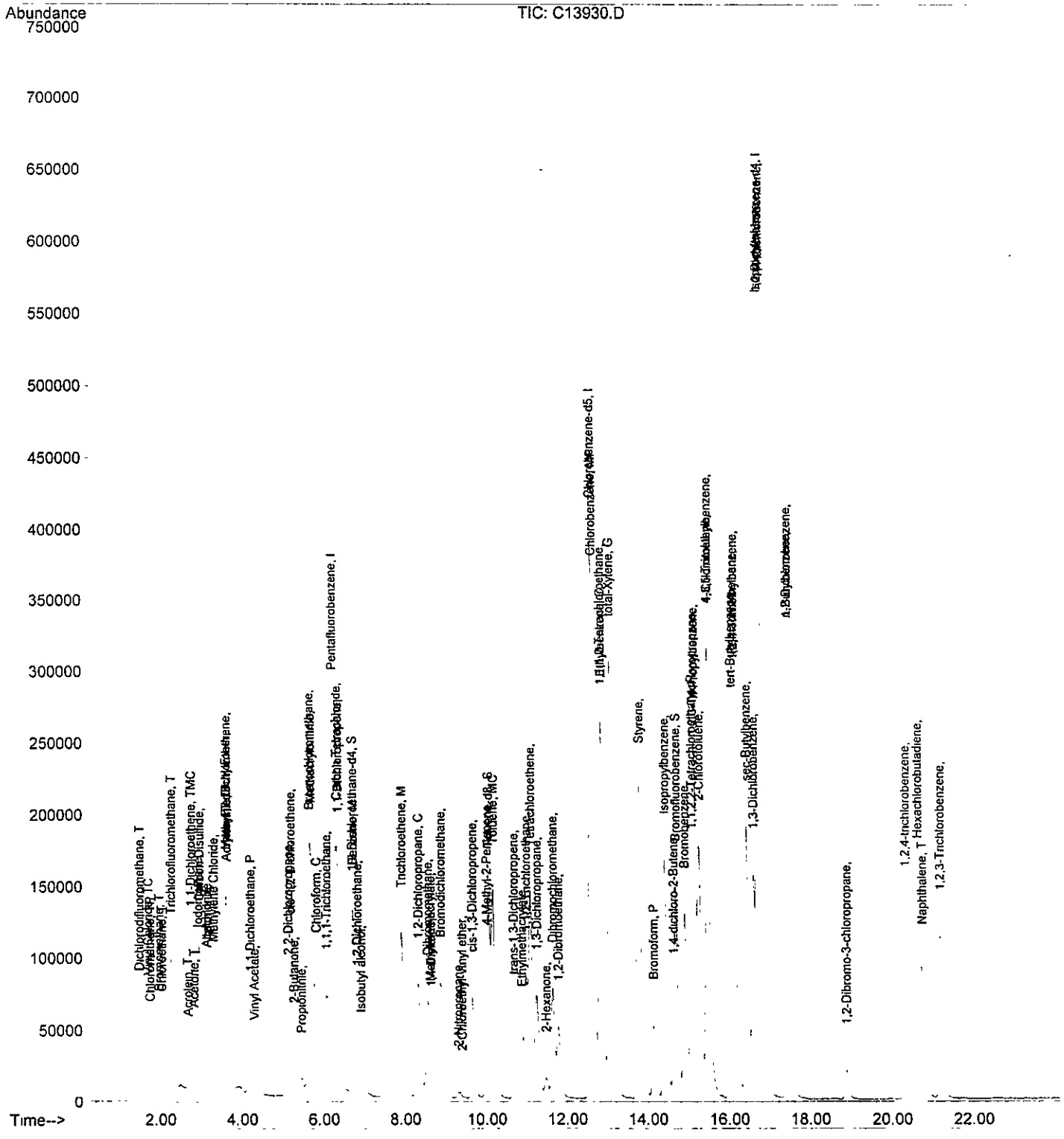
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
74)	tert-Butylbenzene	16.06	119	477026	20.71	ug\L	99
75)	1,2,4-Trimethylbenzene	16.14	105	377568	20.83	ug\L	98
76)	sec-Butylbenzene	16.43	105	592769	20.90	ug\L	100
77)	1,3-Dichlorobenzene	16.62	146	227290	21.11	ug\L	98
78)	Isopropyltoluene	16.72	119	455601	20.81	ug\L	100
79)	1,4-Dichlorobenzene	16.78	146	270938	20.92	ug\L	98
80)	1,2-Dichlorobenzene	17.44	146	215676	20.85	ug\L	100
81)	n-Butylbenzene	17.45	91	461711	20.90	ug\L	99
82)	1,2-Dibromo-3-chloropropan	18.89	75	22471	18.78	ug\L	99
83)	1,2,4-trichlorobenzene	20.33	180	163261	21.01	ug\L	100
84)	Hexachlorobutadiene	20.64	225	113855	21.60	ug\L	100
85)	Naphthalene	20.75	128	225841	19.23	ug\L	100
86)	1,2,3-Trichlorobenzene	21.19	180	133957	20.31	ug\L	98

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

Quantitation Report

Data File : C:\HPCHEM\1\DATA\031200\C13930.D Vial: 2
Acq On : 12 Mar 2000 2:17 pm Operator: KJ/TAG
Sample : ICAL 20ppb (V00019,V00002) Inst : VOC MS #3
Misc : QC Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Mar 13 9:44 2000 Quant Results File: 031200W.RES

Method : C:\HPCHEM\1\DATA\031200\031200W.M (RTE Integrator)
Title : 8260 CALIBRATION FOR WATER 3/12/2000
Last Update : Mon Mar 13 09:56:43 2000
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\031200\C13931.D Vial: 3
Acq On : 12 Mar 2000 2:48 pm Operator: KJ/TAG
Sample : ICAL 5ppb (V00019,V00002) Inst : VOC MS #3
Misc : QC Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Mar 13 9:54 2000 Quant Results File: 031200W.RES

Quant Method : C:\HPCHEM\1\DATA\031200\031200W.M (RTE Integrator)
Title : 8260 CALIBRATION FOR WATER 3/12/2000
Last Update : Mon Mar 13 09:24:50 2000
Response via : Initial Calibration
DataAcq Meth : 031200W

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Pentafluorobenzene	6.21	168	681452	50.00	ug\L		0.00
45) Chlorobenzene-d5	12.59	117	674093	50.00	ug\L		0.00
61) 1,2-Dichlorobenzene-d4	16.74	152	389124	50.00	ug\L		0.00
System Monitoring Compounds							
32) 1,2-Dichloroethane-d4	6.70	65	25775	5.27	ug\L		-0.02
Spiked Amount 50.000	Range 80 - 120		Recovery = 10.54%#				
46) Toluene-d8	10.06	98	85924	5.14	ug\L		0.00
Spiked Amount 50.000	Range 87 - 104		Recovery = 10.28%#				
65) Bromofluorobenzene	14.70	95	52085	5.35	ug\L		0.00
Spiked Amount 50.000	Range 84 - 110		Recovery = 10.70%#				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.48	85	25573	4.57	ug\L		98
3) Chloromethane	1.65	50	14726	4.70	ug\L		96
4) Vinyl Chloride	1.71	62	19691	4.45	ug\L		98
5) Bromomethane	1.98	94	18218	4.87	ug\L		98
7) Trichlorofluoromethane	2.27	101	38667	4.71	ug\L	#	100
8) Acrolein	2.70	56	2108	14.67	ug\L		92
9) Acrylonitrile	3.65	53	5654	8.62	ug\L	#	90
10) 1,1-Dichloroethene	2.76	96	22844	4.72	ug\L		99
11) Acetone	2.83	58	2535	6.36	ug\L		90
12) Iodomethane	2.93	142	29320m	3.12	ug\L		
13) Allylchloride	3.15	76	9700m	3.81	ug\L		
14) Carbon Disulfide	2.98	76	60767	4.78	ug\L	#	95
15) Acetonitrile	3.15	41	27737	39.65	ug\L	#	97
16) Methylene Chloride	3.31	84	22598	4.62	ug\L		98
17) trans-1,2-Dichloroethene	3.61	96	23597	4.38	ug\L		96
18) MethylTertButylEther	3.62	73	29163	-22.27	ug\L		96
19) 1,1-Dichloroethane	4.22	63	37442	4.38	ug\L		98
20) Vinyl Acetate	4.33	43	12049	4.92	ug\L	#	81
21) 2,2-Dichloropropane	5.14	77	9319m	7.43	ug\L		
22) cis-1,2-Dichloroethene	5.20	96	24591	4.36	ug\L		96
24) Propionitrile	5.46	54	10475	45.25	ug\L	#	78
25) Methacrylonitrile	5.68	41	58803	46.04	ug\L		97
26) Bromochloromethane	5.65	128	13431	4.37	ug\L		95
27) Chloroform	5.83	83	44141	4.42	ug\L		99
28) 1,1,1-Trichloroethane	6.05	97	33513	4.09	ug\L	#	54
29) Carbon Tetrachloride	6.32	119	30695	2.76	ug\L	#	7
30) 1,4-Dioxane	8.66	88	1498	51.38	ug\L	#	63

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

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\031200\C13931.D Vial: 3
Acq On : 12 Mar 2000 2:48 pm Operator: KJ/TAG
Sample : ICAL 5ppb (V00019,V00002) Inst : VOC MS #3
Misc : QC Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Mar 13 9:54 2000 Quant Results File: 031200W.RES

Quant Method : C:\HPCHEM\1\DATA\031200\031200W.M (RTE Integrator)
Title : 8260 CALIBRATION FOR WATER 3/12/2000
Last Update : Mon Mar 13 09:24:50 2000
Response via : Initial Calibration
DataAcq Meth : 031200W

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
31)	1,1-Dichloropropene	6.33	75	36251	4.29	ug\L		93
33)	Benzene	6.72	78	67135	4.44	ug\L		100
34)	Isobutyl alcohol	6.91	43	9485	92.70	ug\L	#	73
35)	1,2-Dichloroethane	6.83	62	23106	4.41	ug\L	#	80
36)	Trichloroethene	7.89	95	30410	4.50	ug\L	#	3
37)	1,2-Dichloropropane	8.33	63	24396	4.32	ug\L	#	96
38)	Dibromomethane	8.56	93	17886	4.41	ug\L		93
39)	Methylmethacrylate	8.65	69	9623	4.07	ug\L	#	75
40)	Bromodichloromethane	8.87	83	38046	4.07	ug\L		100
41)	2-Nitropropane	9.33	43	2757m	10.52	ug\L		
42)	2-Chloroethyl-vinyl ether	9.38	63	83	21.60	ug\L	#	100
43)	cis-1,3-Dichloropropene	9.65	75	26879	3.68	ug\L		98
44)	4-Methyl-2-Pentanone	10.00	85	1851m	3.96	ug\L		
47)	Toluene	10.16	92	44875	4.24	ug\L		100
48)	trans-1,3-Dichloropropene	10.69	75	18624	3.38	ug\L		92
49)	Ethylmethacrylate	10.88	69	19329	3.77	ug\L	#	88
50)	1,1,2-Trichloroethane	10.99	83	17140	4.15	ug\L		99
51)	Tetrachloroethene	11.10	164	23773	4.25	ug\L		97
52)	1,3-Dichloropropane	11.25	76	31109	4.20	ug\L		99
53)	2-Hexanone	11.48	43	7050	4.02	ug\L	#	87
54)	Dibromochloromethane	11.66	129	26650	3.89	ug\L		98
55)	1,2-Dibromoethane	11.79	107	24210	4.16	ug\L	#	99
56)	Chlorobenzene	12.63	112	56231	4.34	ug\L	#	89
57)	1,1,1,2-Tetrachloroethane	12.84	131	22342	3.86	ug\L	#	88
58)	Ethylbenzene	12.84	91	85502	4.27	ug\L		96
59)	total-Xylene	13.07	106	96972m	8.22	ug\L		
60)	Styrene	13.82	104	48528	3.86	ug\L		99
62)	Bromoform	14.14	173	15636	3.80	ug\L	#	96
63)	Isopropylbenzene	14.42	105	90041	4.11	ug\L		98
64)	1,4-dichloro-2-Butene	14.64	53	3267	7.62	ug\L	#	49
66)	Bromobenzene	14.91	156	25313	4.24	ug\L	#	91
67)	1,1,2,2-Tetrachloroethane	15.09	83	28702	4.38	ug\L		96
68)	1,2,3-Trichloropropane	15.11	75	19950	3.54	ug\L	#	100
69)	n-Propylbenzene	15.16	91	109037	4.28	ug\L		98
70)	2-Chlorotoluene	15.27	91	64527	4.33	ug\L		98
71)	4-Chlorotoluene	15.48	91	84421	4.26	ug\L		99
72)	1,3,5-Trimethylbenzene	15.48	105	75558	4.31	ug\L		95
73)	Pentachloroethane	16.07	167	13419	3.54	ug\L	#	94
74)	tert-Butylbenzene	16.04	119	92039	4.11	ug\L		100
75)	1,2,4-Trimethylbenzene	16.13	105	75796	4.31	ug\L		96

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

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\031200\C13931.D Vial: 3
Acq On : 12 Mar 2000 2:48 pm Operator: KJ/TAG
Sample : ICAL 5ppb (V00019,V00002) Inst : VOC MS #3
Misc : QC Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Mar 13 9:54 2000 Quant Results File: 031200W.RES

Quant Method : C:\HPCHEM\1\DATA\031200\031200W.M (RTE Integrator)
Title : 8260 CALIBRATION FOR WATER 3/12/2000
Last Update : Mon Mar 13 09:24:50 2000
Response via : Initial Calibration
DataAcq Meth : 031200W

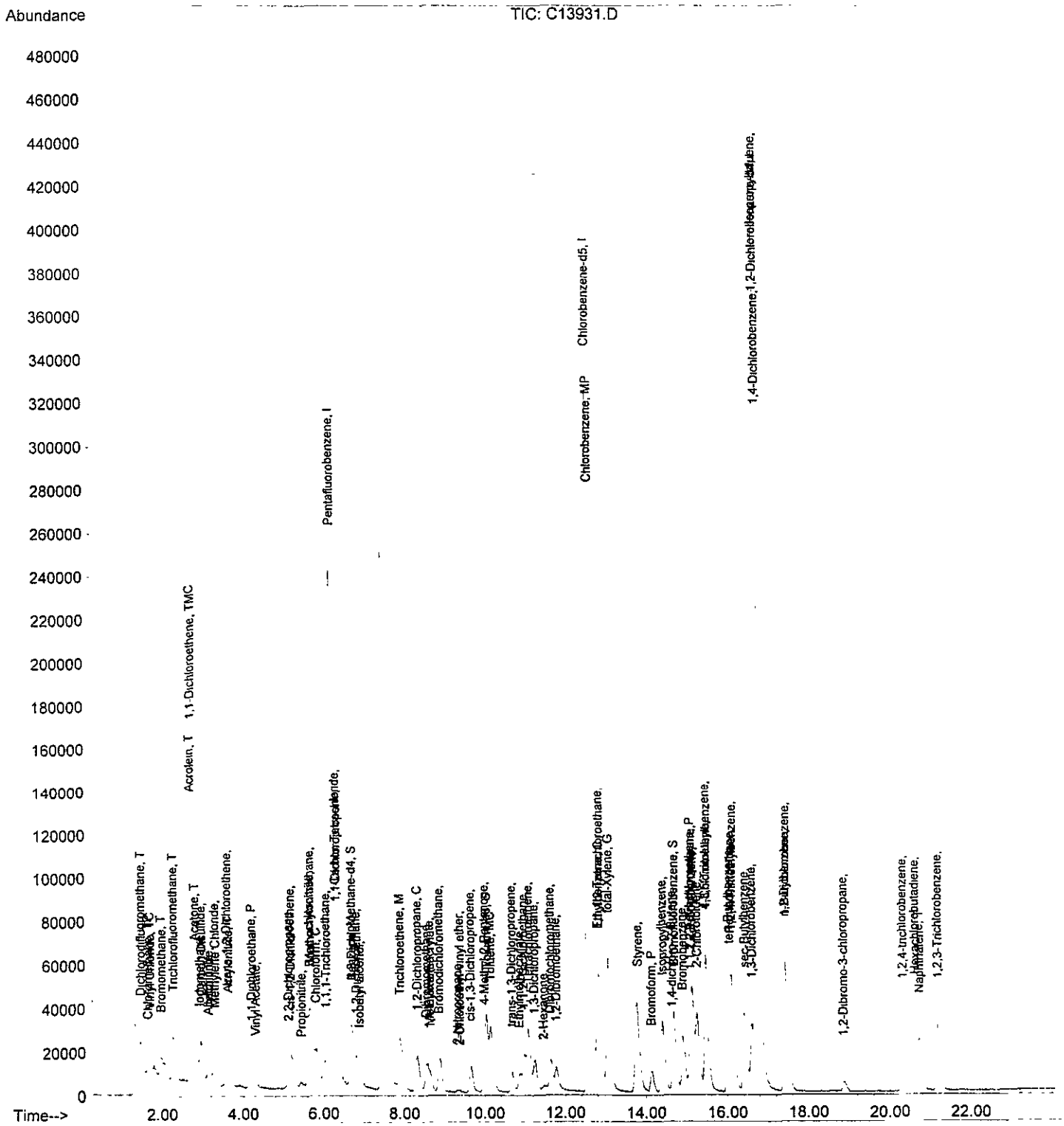
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
76)	sec-Butylbenzene	16.43	105	114796	4.17	ug\L		97
77)	1,3-Dichlorobenzene	16.61	146	46727	4.47	ug\L		98
78)	Isopropyltoluene	16.71	119	90491	4.26	ug\L		100
79)	1,4-Dichlorobenzene	16.78	146	58052	4.62	ug\L		94
80)	1,2-Dichlorobenzene	17.43	146	45983	4.58	ug\L		99
81)	n-Butylbenzene	17.45	91	88050	4.11	ug\L		97
82)	1,2-Dibromo-3-chloropropan	18.87	75	5246	4.52	ug\L	#	56
83)	1,2,4-trichlorobenzene	20.31	180	37487	4.97	ug\L		100
84)	Hexachlorobutadiene	20.63	225	24698	4.83	ug\L		100
85)	Naphthalene	20.75	128	66211	5.81	ug\L		100
86)	1,2,3-Trichlorobenzene	21.19	180	36770	5.74	ug\L		97

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

Quantitation Report

Data File : C:\HPCHEM\1\DATA\031200\C13931.D Vial: 3
Acq On : 12 Mar 2000 2:48 pm Operator: KJ/TAG
Sample : ICAL 5ppb (V00019,V00002) Inst : VOC MS #3
Misc : QC Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Mar 13 9:54 2000 Quant Results File: 031200W.RES

Method : C:\HPCHEM\1\DATA\031200\031200W.M (RTE Integrator)
Title : 8260 CALIBRATION FOR WATER 3/12/2000
Last Update : Mon Mar 13 09:56:43 2000
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\031200\C13932.D Vial: 4
Acq On : 12 Mar 2000 3:17 pm Operator: KJ/TAG
Sample : ICAL 2ppb (V00019,V00002) Inst : VOC MS #3
Misc : QC Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Mar 13 9:04 2000 Quant Results File: 031200W.RES

Quant Method : c:\hpchem\1\data\031200\031200W.M (RTE Integrator)
Title : 8260 CALIBRATION FOR WATER 9/3/98
Last Update : Sun Mar 12 13:25:44 2000
Response via : Initial Calibration
DataAcq Meth : 031200W

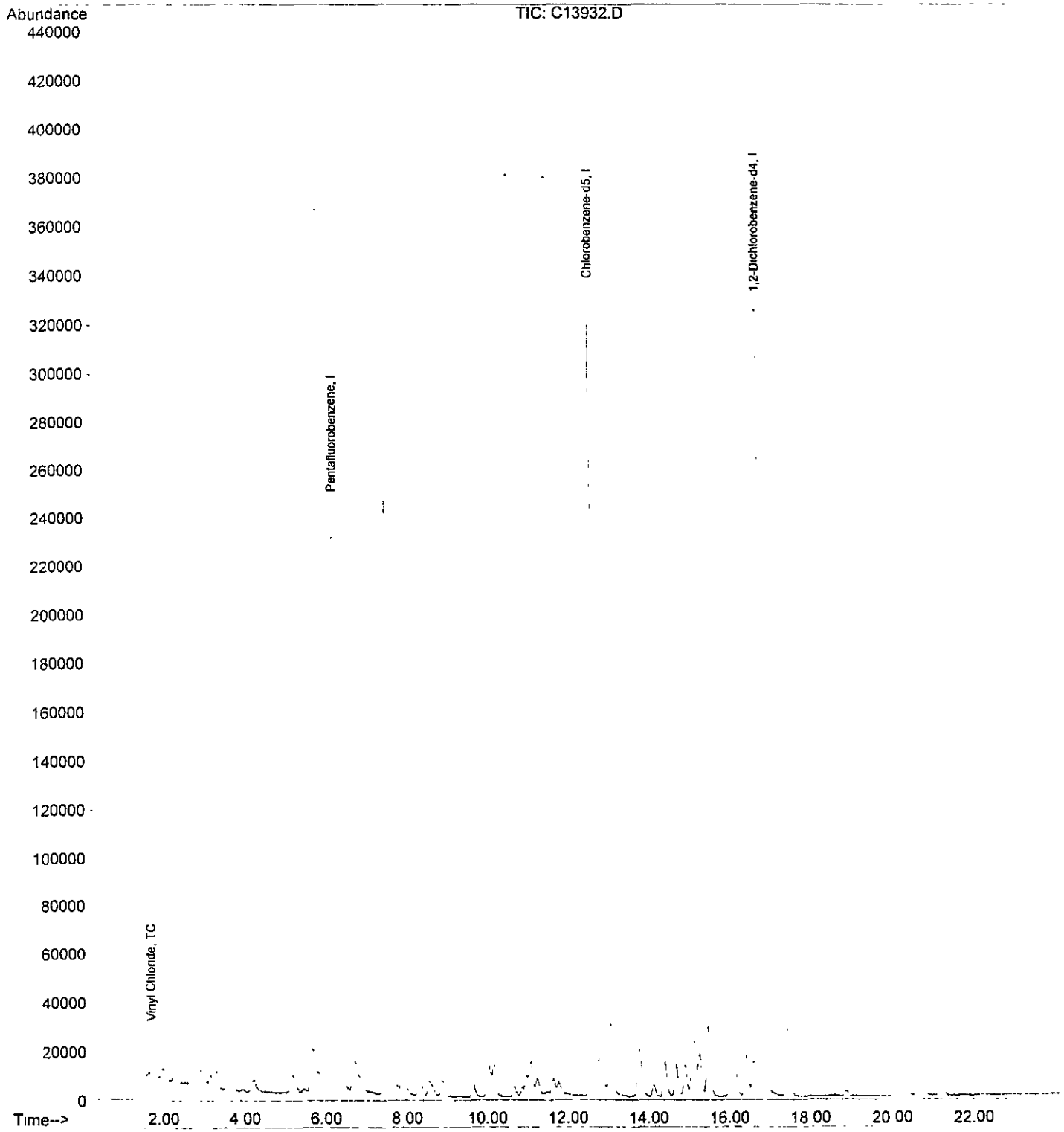
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	6.21	168	655653	50.00	ug\L	0.00
45) Chlorobenzene-d5	12.60	117	689484	50.00	ug\L	0.01
61) 1,2-Dichlorobenzene-d4	16.74	152	369147	50.00	ug\L	0.00
System Monitoring Compounds						
32) 1,2-Dichloroethane-d4	0.00	65	0d	0.00	ug\L	
Spiked Amount 50.000	Range 80 - 120		Recovery =	0.00%#		
46) Toluene-d8	0.00	98	0d	0.00	ug\L	
Spiked Amount 50.000	Range 87 - 104		Recovery =	0.00%#		
65) Bromofluorobenzene	0.00	95	0d	0.00	ug\L	
Spiked Amount 50.000	Range 84 - 110		Recovery =	0.00%#		
Target Compounds						Qvalue
4) Vinyl Chloride	1.72	62	9088	2.87	ug\L	# 100

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

Quantitation Report

Data File : C:\HPCHEM\1\DATA\031200\C13932.D Vial: 4
Acq On : 12 Mar 2000 3:17 pm Operator: KJ/TAG
Sample : ICAL 2ppb (V00019,V00002) Inst : VOC MS #3
Misc : QC Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Mar 13 9:04 2000 Quant Results File: 031200W.RES

Method : C:\HPCHEM\1\DATA\031200\031200W.M (RTE Integrator)
Title : 8260 CALIBRATION FOR WATER 3/12/2000
Last Update : Mon Mar 13 09:56:43 2000
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\031200\C13933.D Vial: 5
Acq On : 12 Mar 2000 3:50 pm Operator: KJ/TAG
Sample : ICAL 100ppb (V00019,V00002) Inst : VOC MS #3
Misc : QC Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Mar 13 9:45 2000 Quant Results File: 031200W.RES

Quant Method : C:\HPCHEM\1\DATA\031200\031200W.M (RTE Integrator)
Title : 8260 CALIBRATION FOR WATER 3/12/2000
Last Update : Mon Mar 13 09:24:50 2000
Response via : Initial Calibration
DataAcq Meth : 031200W

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Pentafluorobenzene	6.20	168	662817	50.00	ug\L		-0.02
45) Chlorobenzene-d5	12.59	117	681032	50.00	ug\L		0.00
61) 1,2-Dichlorobenzene-d4	16.73	152	390403	50.00	ug\L		0.00
System Monitoring Compounds							
32) 1,2-Dichloroethane-d4	6.69	65	487186	102.32	ug\L		-0.02
Spiked Amount 50.000	Range 80 - 120		Recovery = 204.64%#				
46) Toluene-d8	10.05	98	1667577	98.81	ug\L		-0.01
Spiked Amount 50.000	Range 87 - 104		Recovery = 197.62%#				
65) Bromofluorobenzene	14.70	95	978228	100.10	ug\L		0.00
Spiked Amount 50.000	Range 84 - 110		Recovery = 200.20%#				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.49	85	572198	105.21	ug\L		99
3) Chloromethane	1.68	50	326890	107.20	ug\L		98
4) Vinyl Chloride	1.71	62	454882	105.60	ug\L		100
5) Bromomethane	1.98	94	396820	108.98	ug\L		99
6) Chloroethane	2.05	64	220796	107.89	ug\L		96
7) Trichlorofluoromethane	2.24	101	876850	109.91	ug\L	#	100
8) Acrolein	2.70	56	48245	200.49	ug\L		98
9) Acrylonitrile	3.64	53	144517	226.55	ug\L		99
10) 1,1-Dichloroethene	2.75	96	493473	104.72	ug\L		95
11) Acetone	2.88	58	27246	70.29	ug\L		89
12) Iodomethane	2.92	142	763259	94.91	ug\L		100
13) Allylchloride	3.14	76	265327	107.11	ug\L		87
14) Carbon Disulfide	2.97	76	1274708	103.10	ug\L		100
15) Acetonitrile	3.15	41	771117	1133.21	ug\L	#	100
16) Methylene Chloride	3.31	84	505328	106.19	ug\L		99
17) trans-1,2-Dichloroethene	3.61	96	548648	104.80	ug\L		96
18) MethylTertButylEther	3.62	73	674594	147.79	ug\L		98
19) 1,1-Dichloroethane	4.20	63	899132	108.17	ug\L		99
20) Vinyl Acetate	4.32	43	247756	104.05	ug\L		100
21) 2,2-Dichloropropane	5.13	77	620531	105.89	ug\L		100
22) cis-1,2-Dichloroethene	5.20	96	584463	106.58	ug\L		95
23) 2-Butanone	5.30	72	32646	101.56	ug\L		99
24) Propionitrile	5.47	54	254393	1129.94	ug\L		99
25) Methacrylonitrile	5.69	41	1378025	1109.24	ug\L		99
26) Bromochloromethane	5.64	128	319971	107.13	ug\L		95
27) Chloroform	5.82	83	1035509	106.61	ug\L		99
28) 1,1,1-Trichloroethane	6.05	97	867834	108.77	ug\L		96

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

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\031200\C13933.D Vial: 5
Acq On : 12 Mar 2000 3:50 pm Operator: KJ/TAG
Sample : ICAL 100ppb (V00019,V00002) Inst : VOC MS #3
Misc : QC Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Mar 13 9:45 2000 Quant Results File: 031200W.RES

Quant Method : C:\HPCHEM\1\DATA\031200\031200W.M (RTE Integrator)
Title : 8260 CALIBRATION FOR WATER 3/12/2000
Last Update : Mon Mar 13 09:24:50 2000
Response via : Initial Calibration
DataAcq Meth : 031200W

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
29)	Carbon Tetrachloride	6.32	119	766270m	70.91	ug\L		
30)	1,4-Dioxane	8.65	88	73364	2587.22	ug\L	#	97
31)	1,1-Dichloropropene	6.35	75	883524	107.51	ug\L		97
33)	Benzene	6.71	78	1579808	107.47	ug\L		100
34)	Isobutyl alcohol	6.94	43	175812	2231.70	ug\L		98
35)	1,2-Dichloroethane	6.83	62	561390	110.11	ug\L		98
36)	Trichloroethene	7.91	95	704129	107.19	ug\L		96
37)	1,2-Dichloropropane	8.31	63	609589	110.87	ug\L		98
38)	Dibromomethane	8.55	93	434845	110.20	ug\L		96
39)	Methylmethacrylate	8.63	69	263948	114.71	ug\L		95
40)	Bromodichloromethane	8.87	83	1017265	111.79	ug\L		100
41)	2-Nitropropane	9.34	43	78808	103.89	ug\L		90
42)	2-Chloroethyl-vinyl ether	9.39	63	5475	44.68	ug\L	#	100
43)	cis-1,3-Dichloropropene	9.65	75	818357	115.22	ug\L		99
44)	4-Methyl-2-Pentanone	10.00	85	53200	116.90	ug\L	#	98
47)	Toluene	10.16	92	1132352	105.85	ug\L		100
48)	trans-1,3-Dichloropropene	10.68	75	634824	114.07	ug\L		99
49)	Ethylmethacrylate	10.87	69	590938	114.21	ug\L		97
50)	1,1,2-Trichloroethane	10.99	83	454468	108.96	ug\L		99
51)	Tetrachloroethene	11.10	164	590461	104.38	ug\L		98
52)	1,3-Dichloropropane	11.25	76	808470	107.99	ug\L		100
53)	2-Hexanone	11.47	43	184059	104.01	ug\L		97
54)	Dibromochloromethane	11.64	129	754587	109.13	ug\L		99
55)	1,2-Dibromoethane	11.78	107	643788	109.48	ug\L		100
56)	Chlorobenzene	12.64	112	1377224	105.19	ug\L		99
57)	1,1,1,2-Tetrachloroethane	12.83	131	633150	108.35	ug\L		99
58)	Ethylbenzene	12.85	91	2169270	107.27	ug\L		99
59)	total-Xylene	13.06	106	2546141m	213.56	ug\L		
60)	Styrene	13.80	104	1406106	110.72	ug\L		99
62)	Bromoform	14.14	173	465061	112.60	ug\L	#	99
63)	Isopropylbenzene	14.41	105	2395487	108.94	ug\L		99
64)	1,4-dichloro-2-Butene	14.63	53	130638	100.88	ug\L	#	59
66)	Bromobenzene	14.92	156	645451	107.70	ug\L		96
67)	1,1,2,2-Tetrachloroethane	15.08	83	723675	110.09	ug\L		96
68)	1,2,3-Trichloropropane	15.11	75	659096	116.41	ug\L	#	100
69)	n-Propylbenzene	15.15	91	2771687	108.48	ug\L		99
70)	2-Chlorotoluene	15.27	91	1596970	106.71	ug\L		98
71)	4-Chlorotoluene	15.48	91	2141107	107.61	ug\L		100
72)	1,3,5-Trimethylbenzene	15.49	105	1880889	106.83	ug\L		97
73)	Pentachloroethane	16.09	167	424811	111.73	ug\L		99

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

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\031200\C13933.D Vial: 5
Acq On : 12 Mar 2000 3:50 pm Operator: KJ/TAG
Sample : ICAL 100ppb (V00019,V00002) Inst : VOC MS #3
Misc : QC Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Mar 13 9:45 2000 Quant Results File: 031200W.RES

Quant Method : C:\HPCHEM\1\DATA\031200\031200W.M (RTE Integrator)
Title : 8260 CALIBRATION FOR WATER 3/12/2000
Last Update : Mon Mar 13 09:24:50 2000
Response via : Initial Calibration
DataAcq Meth : 031200W

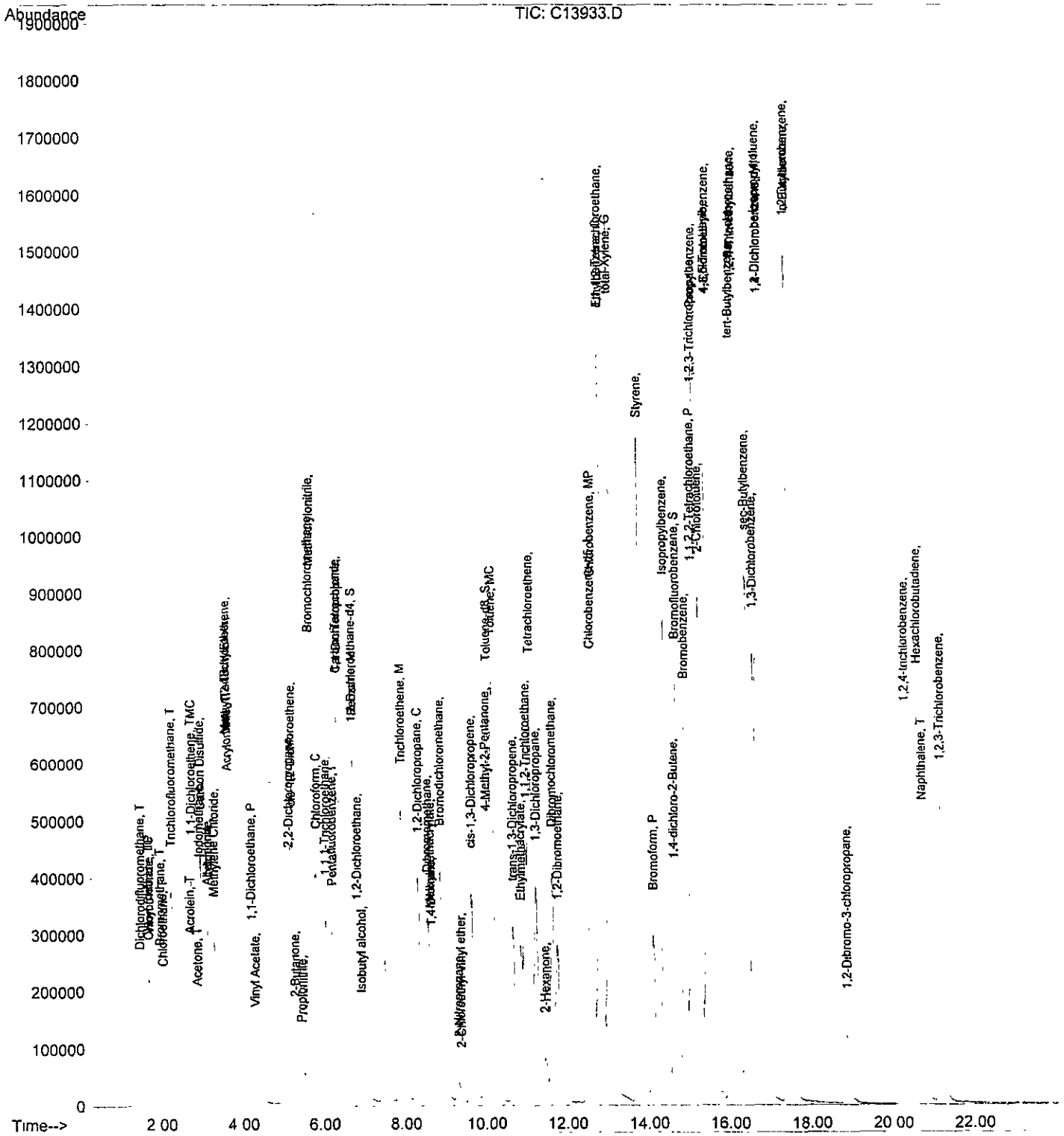
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
74)	tert-Butylbenzene	16.05	119	2417284	107.72	ug\L	99
75)	1,2,4-Trimethylbenzene	16.14	105	1896425	107.40	ug\L	98
76)	sec-Butylbenzene	16.43	105	2959335	107.11	ug\L	100
77)	1,3-Dichlorobenzene	16.60	146	1114907	106.28	ug\L	98
78)	Isopropyltoluene	16.71	119	2268242	106.39	ug\L	100
79)	1,4-Dichlorobenzene	16.77	146	1287099	102.01	ug\L	98
80)	1,2-Dichlorobenzene	17.42	146	1047077	103.94	ug\L	99
81)	n-Butylbenzene	17.45	91	2318527	107.77	ug\L	99
82)	1,2-Dibromo-3-chloropropan	18.87	75	126592	108.63	ug\L	97
83)	1,2,4-trichlorobenzene	20.32	180	762824	100.81	ug\L	100
84)	Hexachlorobutadiene	20.63	225	514239	100.14	ug\L	100
85)	Naphthalene	20.75	128	1135350	99.23	ug\L	100
86)	1,2,3-Trichlorobenzene	21.19	180	621438	96.71	ug\L	98

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

Quantitation Report

Data File : C:\HPCHEM\1\DATA\031200\C13933.D Vial: 5
Acq On : 12 Mar 2000 3:50 pm Operator: KJ/TAG
Sample : ICAL 100ppb (V00019,V00002) Inst : VOC MS #3
Misc : QC Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Mar 13 9:45 2000 Quant Results File: 031200W.RES

Method : C:\HPCHEM\1\DATA\031200\031200W.M (RTE Integrator)
Title : 8260 CALIBRATION FOR WATER 3/12/2000
Last Update : Mon Mar 13 09:56:43 2000
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\031200\C13934.D Vial: 6
Acq On : 12 Mar 2000 4:19 pm Operator: KJ/TAG
Sample : ICAL 200ppb (V00019,V00002) Inst : VOC MS #3
Misc : QC Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Mar 13 9:30 2000 Quant Results File: 031200W.RES

Quant Method : C:\HPCHEM\1\DATA\031200\031200W.M (RTE Integrator)
Title : 8260 CALIBRATION FOR WATER 3/12/2000
Last Update : Mon Mar 13 09:24:50 2000
Response via : Initial Calibration
DataAcq Meth : 031200W

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Pentafluorobenzene	6.19	168	695393	50.00	ug\L		-0.03
45) Chlorobenzene-d5	12.59	117	674129	50.00	ug\L		0.00
61) 1,2-Dichlorobenzene-d4	16.74	152	369724	50.00	ug\L		0.00
System Monitoring Compounds							
32) 1,2-Dichloroethane-d4	6.70	65	987434	197.67	ug\L		-0.02
Spiked Amount 50.000	Range 80 - 120		Recovery = 395.34%#				
46) Toluene-d8	10.05	98	3486760	208.73	ug\L		0.00
Spiked Amount 50.000	Range 87 - 104		Recovery = 417.46%#				
65) Bromofluorobenzene	14.70	95	1900209	205.31	ug\L		0.00
Spiked Amount 50.000	Range 84 - 110		Recovery = 410.62%#				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.48	85	1120771	196.42	ug\L		100
3) Chloromethane	1.68	50	655824	204.99	ug\L		98
4) Vinyl Chloride	1.72	62	886789	196.22	ug\L		100
5) Bromomethane	1.98	94	689084	180.37	ug\L		96
6) Chloroethane	2.05	64	411418	196.24	ug\L		100
7) Trichlorofluoromethane	2.25	101	1298225	155.11	ug\L	#	100
8) Acrolein	2.71	56	103029	401.45	ug\L		99
9) Acrylonitrile	3.66	53	280895	419.72	ug\L		97
10) 1,1-Dichloroethene	2.74	96	963873	194.96	ug\L		95
11) Acetone	2.88	58	54937	135.09	ug\L		86
12) Iodomethane	2.93	142	1696149	201.53	ug\L		100
13) Allylchloride	3.14	76	545745	209.98	ug\L		95
14) Carbon Disulfide	2.97	76	2527759	194.88	ug\L		100
15) Acetonitrile	3.15	41	1498275	2098.67	ug\L	#	100
16) Methylene Chloride	3.31	84	990779	198.45	ug\L		99
17) trans-1,2-Dichloroethene	3.61	96	1115318	203.06	ug\L		96
18) MethylTertButylEther	3.62	73	812458	174.05	ug\L		98
19) 1,1-Dichloroethane	4.20	63	1826613	209.46	ug\L		99
20) Vinyl Acetate	4.31	43	499984	200.15	ug\L		99
21) 2,2-Dichloropropane	5.14	77	1248486	197.59	ug\L		100
22) cis-1,2-Dichloroethene	5.20	96	1205212	209.48	ug\L		97
23) 2-Butanone	5.31	72	65679	197.78	ug\L		99
24) Propionitrile	5.49	54	502499	2127.40	ug\L	#	94
25) Methacrylonitrile	5.70	41	2699423	2071.11	ug\L		99
26) Bromochloromethane	5.65	128	651142	207.80	ug\L		96
27) Chloroform	5.83	83	2100107	206.09	ug\L		100
28) 1,1,1-Trichloroethane	6.04	97	1763210	210.64	ug\L		92

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

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\031200\C13934.D Vial: 6
Acq On : 12 Mar 2000 4:19 pm Operator: KJ/TAG
Sample : ICAL 200ppb (V00019,V00002) Inst : VOC MS #3
Misc : QC Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Mar 13 9:30 2000 Quant Results File: 031200W.RES

Quant Method : C:\HPCHEM\1\DATA\031200\031200W.M (RTE Integrator)
Title : 8260 CALIBRATION FOR WATER 3/12/2000
Last Update : Mon Mar 13 09:24:50 2000
Response via : Initial Calibration
DataAcq Meth : 031200W

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
29)	Carbon Tetrachloride	6.31	119	1536047	135.49	ug\L	#	76
30)	1,4-Dioxane	8.68	88	139988	4705.50	ug\L	#	98
31)	1,1-Dichloropropene	6.34	75	1742675	202.12	ug\L		96
33)	Benzene	6.72	78	3182034	206.33	ug\L		100
34)	Isobutyl alcohol	6.95	43	321862	3913.41	ug\L		98
35)	1,2-Dichloroethane	6.84	62	1111927	207.88	ug\L		98
36)	Trichloroethene	7.90	95	1424795	206.74	ug\L		95
37)	1,2-Dichloropropane	8.32	63	1256369	217.80	ug\L		98
38)	Dibromomethane	8.56	93	859550	207.63	ug\L		97
39)	Methylmethacrylate	8.64	69	555192	229.99	ug\L		95
40)	Bromodichloromethane	8.89	83	2084421	218.33	ug\L		99
41)	2-Nitropropane	9.32	43	164940	200.05	ug\L		87
42)	2-Chloroethyl-vinyl ether	9.36	63	49801	224.37	ug\L	#	100
43)	cis-1,3-Dichloropropene	9.66	75	1694307	227.38	ug\L		99
44)	4-Methyl-2-Pentanone	10.00	85	107436	225.02	ug\L	#	93
47)	Toluene	10.16	92	2301085	217.30	ug\L		99
48)	trans-1,3-Dichloropropene	10.68	75	1298435	235.71	ug\L		99
49)	Ethylmethacrylate	10.88	69	1222699	238.73	ug\L	#	95
50)	1,1,2-Trichloroethane	11.00	83	917456	222.22	ug\L		98
51)	Tetrachloroethene	11.11	164	1178022	210.38	ug\L		97
52)	1,3-Dichloropropane	11.25	76	1619955	218.61	ug\L		100
53)	2-Hexanone	11.47	43	387690	221.32	ug\L		97
54)	Dibromochloromethane	11.65	129	1523678	222.61	ug\L		99
55)	1,2-Dibromoethane	11.79	107	1272371	218.60	ug\L		99
56)	Chlorobenzene	12.63	112	2692918	207.78	ug\L		100
57)	1,1,1,2-Tetrachloroethane	12.82	131	1247168	215.60	ug\L		100
58)	Ethylbenzene	12.85	91	4149562	207.30	ug\L		100
59)	total-Xylene	13.06	106	4982623m	422.21	ug\L		
60)	Styrene	13.80	104	2691891	214.14	ug\L		99
62)	Bromoform	14.14	173	921778	235.65	ug\L	#	98
63)	Isopropylbenzene	14.42	105	4616129	221.66	ug\L		99
64)	1,4-dichloro-2-Butene	14.64	53	252780	200.68	ug\L	#	59
66)	Bromobenzene	14.91	156	1232375	217.14	ug\L		99
67)	1,1,2,2-Tetrachloroethane	15.09	83	1371529	220.32	ug\L		96
68)	1,2,3-Trichloropropane	15.11	75	1253793	233.83	ug\L	#	100
69)	n-Propylbenzene	15.15	91	5106242	211.02	ug\L		99
70)	2-Chlorotoluene	15.27	91	3151775	222.38	ug\L		100
71)	4-Chlorotoluene	15.48	91	3981528	211.29	ug\L		99
72)	1,3,5-Trimethylbenzene	15.49	105	3633986	217.94	ug\L		97
73)	Pentachloroethane	16.10	167	819443	227.58	ug\L		99

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

Data File : C:\HPCHEM\1\DATA\031200\C13934.D Vial: 6
Acq On : 12 Mar 2000 4:19 pm Operator: KJ/TAG
Sample : ICAL 200ppb (V00019,V00002) Inst : VOC MS #3
Misc : QC Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Mar 13 9:30 2000 Quant Results File: 031200W.RES

Quant Method : C:\HPCHEM\1\DATA\031200\031200W.M (RTE Integrator)
Title : 8260 CALIBRATION FOR WATER 3/12/2000
Last Update : Mon Mar 13 09:24:50 2000
Response via : Initial Calibration
DataAcq Meth : 031200W

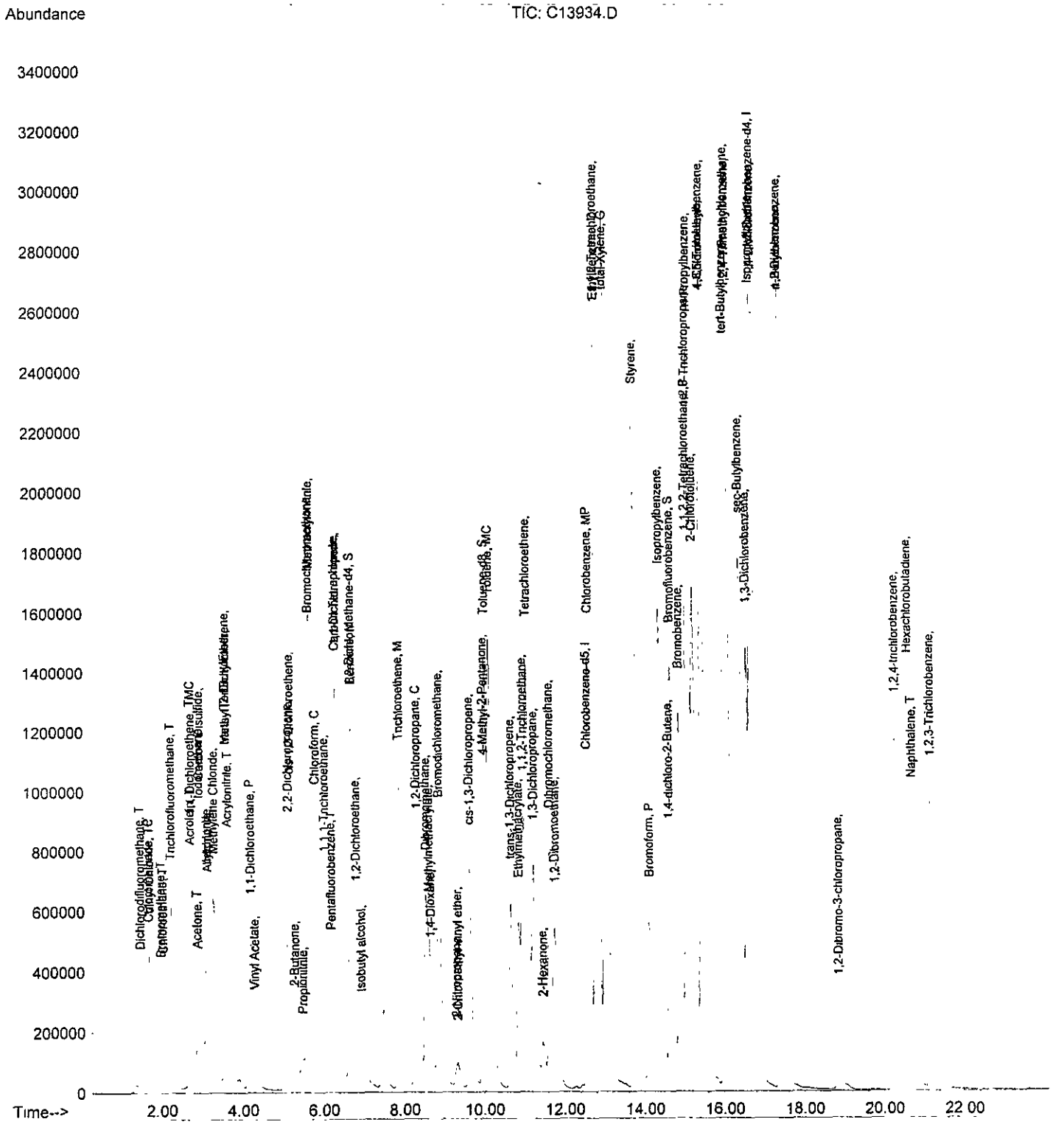
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
74)	tert-Butylbenzene	16.06	119	4609396	216.90	ug\L	99
75)	1,2,4-Trimethylbenzene	16.15	105	3549203	212.25	ug\L	99
76)	sec-Butylbenzene	16.43	105	5636944	215.43	ug\L	99
77)	1,3-Dichlorobenzene	16.61	146	2056902	207.05	ug\L	98
78)	Isopropyltoluene	16.72	119	4344823	215.19	ug\L	100
79)	1,4-Dichlorobenzene	16.78	146	2480049	207.56	ug\L	99
80)	1,2-Dichlorobenzene	17.43	146	1973020	206.80	ug\L	99
81)	n-Butylbenzene	17.45	91	4404155	216.16	ug\L	99
82)	1,2-Dibromo-3-chloropropan	18.88	75	246926	223.75	ug\L	98
83)	1,2,4-trichlorobenzene	20.32	180	1437642	200.61	ug\L	100
84)	Hexachlorobutadiene	20.63	225	978082	201.12	ug\L	100
85)	Naphthalene	20.74	128	2222000	205.08	ug\L	100
86)	1,2,3-Trichlorobenzene	21.18	180	1159474	190.53	ug\L	99

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

Quantitation Report

Data File : C:\HPCHEM\1\DATA\031200\C13934.D Vial: 6
Acq On : 12 Mar 2000 4:19 pm Operator: KJ/TAG
Sample : ICAL 200ppb (V00019,V00002) Inst : VOC MS #3
Misc : QC Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Mar 13 9:30 2000 Quant Results File: 031200W.RES

Method : C:\HPCHEM\1\DATA\031200\031200W.M (RTE Integrator)
Title : 8260 CALIBRATION FOR WATER 3/12/2000
Last Update : Mon Mar 13 09:56:43 2000
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\031200\C13935.D Vial: 7
Acq On : 12 Mar 2000 4:52 pm Operator: KJ/TAG
Sample : ICV 50ppb (V00018,V00002) Inst : VOC MS #3
Misc : QC Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Mar 13 10:19 2000 Quant Results File: 031200W.RES

Quant Method : C:\HPCHEM\1\DATA\031200\031200W.M (RTE Integrator)
Title : 8260 CALIBRATION FOR WATER 3/12/2000
Last Update : Mon Mar 13 10:07:55 2000
Response via : Initial Calibration
DataAcq Meth : 031200W

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Pentafluorobenzene	6.18	168	730602	50.00	ug\L		-0.02
45) Chlorobenzene-d5	12.58	117	704205	50.00	ug\L		0.00
61) 1,2-Dichlorobenzene-d4	16.74	152	396250	50.00	ug\L		0.00
System Monitoring Compounds							
32) 1,2-Dichloroethane-d4	6.68	65	257781	49.12	ug\L		-0.02
Spiked Amount 50.000	Range 80 - 120		Recovery = 98.24%				
46) Toluene-d8	10.05	98	872189	49.98	ug\L		0.00
Spiked Amount 50.000	Range 87 - 104		Recovery = 99.96%				
65) Bromofluorobenzene	14.69	95	504760	50.89	ug\L		0.00
Spiked Amount 50.000	Range 84 - 110		Recovery = 101.78%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.48	85	234871	39.18	ug\L		98
3) Chloromethane	1.66	50	181769	54.08	ug\L		98
4) Vinyl Chloride	1.71	62	221896	46.73	ug\L		99
5) Bromomethane	1.97	94	216785	54.01	ug\L		99
6) Chloroethane	2.05	64	104781	41.95	ug\L		97
7) Trichlorofluoromethane	2.26	101	465065	52.89	ug\L	#	100
8) Acrolein	2.69	56	21006	85.03	ug\L		97
9) Acrylonitrile	3.64	53	69931	99.46	ug\L		96
10) 1,1-Dichloroethene	2.75	96	257900	49.65	ug\L		97
11) Acetone	2.85	58	14867	36.97	ug\L		92
12) Iodomethane	2.92	142	418009	46.87	ug\L		98
13) Allylchloride	3.14	76	137793	50.12	ug\L		96
14) Carbon Disulfide	2.97	76	664568	48.77	ug\L		100
15) Acetonitrile	3.15	41	387656	516.83	ug\L	#	100
16) Methylene Chloride	3.30	84	257946	49.18	ug\L		99
17) trans-1,2-Dichloroethene	3.60	96	280431	48.60	ug\L		100
18) MethylTertButylEther	3.60	73	315984	45.70	ug\L		100
19) 1,1-Dichloroethane	4.20	63	450510	49.17	ug\L		100
20) Vinyl Acetate	4.30	43	134046	51.07	ug\L		98
21) 2,2-Dichloropropane	5.13	77	255352	40.63	ug\L		99
22) cis-1,2-Dichloroethene	5.18	96	300872	49.77	ug\L		98
23) 2-Butanone	5.28	72	16218	43.48	ug\L		97
24) Propionitrile	5.44	54	128357	517.23	ug\L	#	89
25) Methacrylonitrile	5.66	41	707258	516.49	ug\L		100
26) Bromochloromethane	5.63	128	163478	49.66	ug\L		100
27) Chloroform	5.81	83	533970	49.87	ug\L		99
28) 1,1,1-Trichloroethane	6.02	97	436326	49.61	ug\L	#	23

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

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\031200\C13935.D Vial: 7
Acq On : 12 Mar 2000 4:52 pm Operator: KJ/TAG
Sample : ICV 50ppb (V00018,V00002) Inst : VOC MS #3
Misc : QC Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Mar 13 10:19 2000 Quant Results File: 031200W.RES

Quant Method : C:\HPCHEM\1\DATA\031200\031200W.M (RTE Integrator)
Title : 8260 CALIBRATION FOR WATER 3/12/2000
Last Update : Mon Mar 13 10:07:55 2000
Response via : Initial Calibration
DataAcq Meth : 031200W

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
29)	Carbon Tetrachloride	6.30	119	378143	48.33	ug\L	#	1
30)	1,4-Dioxane	8.65	88	34808	971.24	ug\L	#	95
31)	1,1-Dichloropropene	6.33	75	485429	53.59	ug\L		96
33)	Benzene	6.71	78	832841	51.40	ug\L		100
34)	Isobutyl alcohol	6.91	43	90536	1014.72	ug\L		97
35)	1,2-Dichloroethane	6.82	62	284783	50.68	ug\L		99
36)	Trichloroethene	7.89	95	353380	48.81	ug\L		99
37)	1,2-Dichloropropane	8.30	63	315664	52.09	ug\L		100
38)	Dibromomethane	8.54	93	219299	50.42	ug\L		99
39)	Methylmethacrylate	8.63	69	137708	54.30	ug\L		96
40)	Bromodichloromethane	8.87	83	504215	50.27	ug\L		99
41)	2-Nitropropane	9.33	43	34268	44.88	ug\L		97
42)	2-Chloroethyl-vinyl ether	9.36	63	7178	49.12	ug\L	#	51
43)	cis-1,3-Dichloropropene	9.64	75	405509	47.98	ug\L		99
44)	4-Methyl-2-Pentanone	9.98	85	27507	50.74	ug\L	#	99
47)	Toluene	10.16	92	582507	52.66	ug\L		100
48)	trans-1,3-Dichloropropene	10.68	75	303753	48.37	ug\L		99
49)	Ethylmethacrylate	10.88	69	305120	52.22	ug\L		98
50)	1,1,2-Trichloroethane	10.99	83	231453	53.67	ug\L		97
51)	Tetrachloroethene	11.09	164	294573	50.36	ug\L		99
52)	1,3-Dichloropropane	11.25	76	405170	52.34	ug\L		99
53)	2-Hexanone	11.47	43	90612	49.52	ug\L		98
54)	Dibromochloromethane	11.65	129	364004	50.91	ug\L		99
55)	1,2-Dibromoethane	11.77	107	316634	52.08	ug\L		99
56)	Chlorobenzene	12.63	112	687467	50.78	ug\L		99
57)	1,1,1,2-Tetrachloroethane	12.81	131	310622	51.40	ug\L		99
58)	Ethylbenzene	12.84	91	1106056	52.90	ug\L		100
59)	total-Xylene	13.06	106	1275315m	103.45	ug\L		
60)	Styrene	13.80	104	704307	53.64	ug\L		100
62)	Bromoform	14.14	173	223819	53.39	ug\L		99
63)	Isopropylbenzene	14.42	105	1196179	53.59	ug\L		100
64)	1,4-dichloro-2-Butene	14.63	53	60871	49.14	ug\L	#	99
66)	Bromobenzene	14.91	156	329410	54.15	ug\L		99
67)	1,1,2,2-Tetrachloroethane	15.08	83	357569	53.59	ug\L		96
68)	1,2,3-Trichloropropane	15.10	75	315860	50.27	ug\L	#	27
69)	n-Propylbenzene	15.15	91	1302468	50.22	ug\L		97
70)	2-Chlorotoluene	15.27	91	879429	57.90	ug\L		95
71)	4-Chlorotoluene	15.47	91	1069529	52.96	ug\L		100
72)	1,3,5-Trimethylbenzene	15.47	105	972088	54.40	ug\L		99
73)	Pentachloroethane	16.08	167	214633	51.44	ug\L		99

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

Data File : C:\HPCHEM\1\DATA\031200\C13935.D Vial: 7
Acq On : 12 Mar 2000 4:52 pm Operator: KJ/TAG
Sample : ICV 50ppb (V00018,V00002) Inst : VOC MS #3
Misc : QC Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Mar 13 10:19 2000 Quant Results File: 031200W.RES

Quant Method : C:\HPCHEM\1\DATA\031200\031200W.M (RTE Integrator)
Title : 8260 CALIBRATION FOR WATER 3/12/2000
Last Update : Mon Mar 13 10:07:55 2000
Response via : Initial Calibration
DataAcq Meth : 031200W

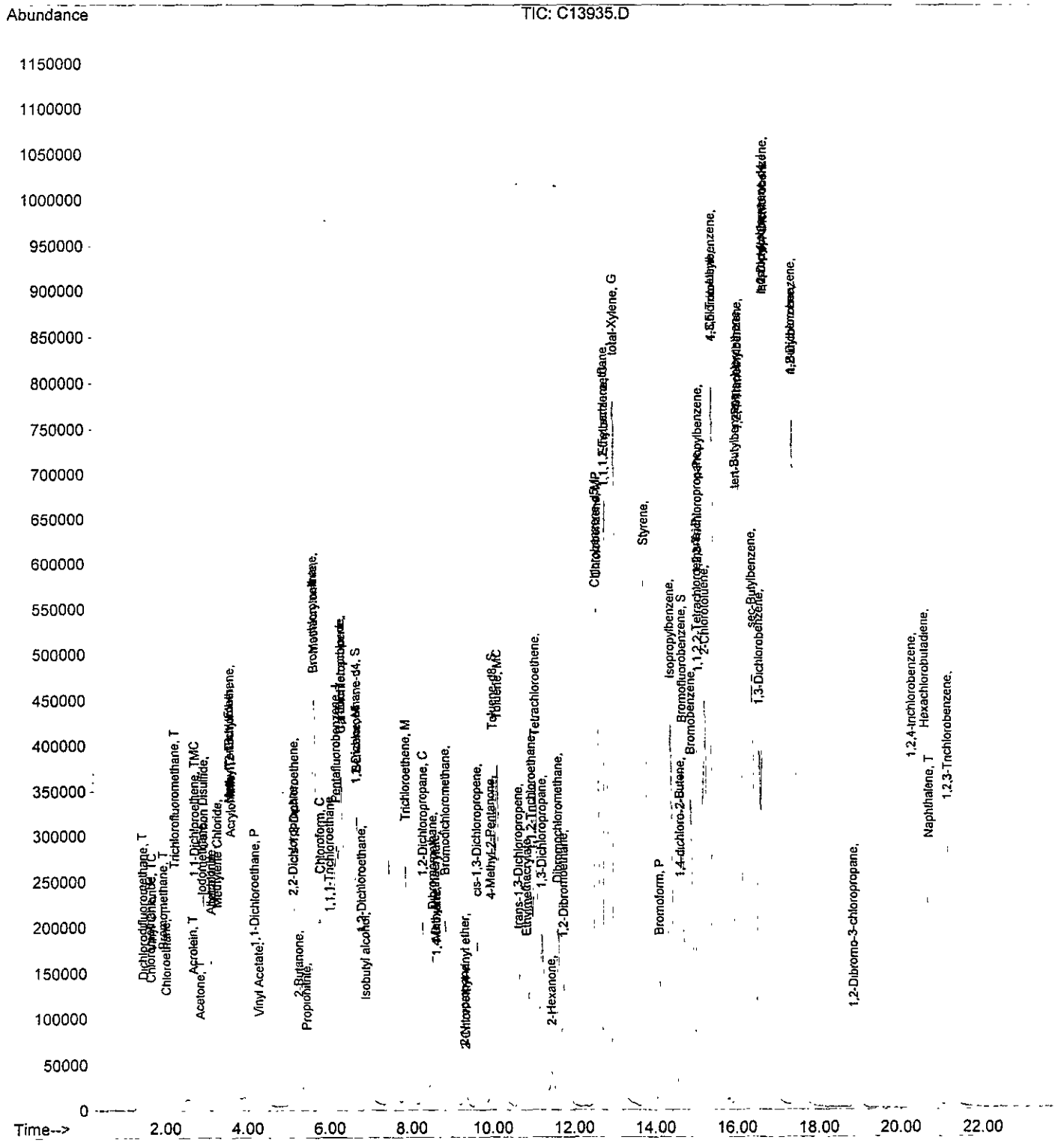
Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
74) tert-Butylbenzene	16.04	119	1224083	53.74	ug\L	100
75) 1,2,4-Trimethylbenzene	16.13	105	965057	53.85	ug\L	100
76) sec-Butylbenzene	16.43	105	1481318	52.82	ug\L	99
77) 1,3-Dichlorobenzene	16.60	146	557633	52.37	ug\L	98
78) Isopropyltoluene	16.72	119	1152125	53.24	ug\L	100
79) 1,4-Dichlorobenzene	16.77	146	657154	51.32	ug\L	99
80) 1,2-Dichlorobenzene	17.43	146	533155	52.14	ug\L	99
81) n-Butylbenzene	17.45	91	1190301	54.51	ug\L	100
82) 1,2-Dibromo-3-chloropropan	18.88	75	62399	52.76	ug\L	98
83) 1,2,4-trichlorobenzene	20.32	180	411204	53.54	ug\L	100
84) Hexachlorobutadiene	20.63	225	275027	52.77	ug\L	100
85) Naphthalene	20.74	128	639284	55.05	ug\L	100
86) 1,2,3-Trichlorobenzene	21.18	180	343925	52.73	ug\L	99

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

Quantitation Report

Data File : C:\HPCHEM\1\DATA\031200\C13935.D Vial: 7
Acq On : 12 Mar 2000 4:52 pm Operator: KJ/TAG
Sample : ICV 50ppb (V00018,V00002) Inst : VOC MS #3
Misc : QC Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Mar 13 10:19 2000 Quant Results File: 031200W.RES

Method : C:\HPCHEM\1\DATA\031200\031200W.M (RTE Integrator)
Title : 8260 CALIBRATION FOR WATER 3/12/2000
Last Update : Mon Mar 13 10:07:55 2000
Response via : Initial Calibration



Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\031200\C13935.D Vial: 7
Acq On : 12 Mar 2000 4:52 pm Operator: KJ/TAG
Sample : ICV 50ppb (V00018,V00002) Inst : VOC MS #3
Misc : QC Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\HPCHEM\1\DATA\031200\031200W.M (RTE Integrator)
Title : 8260 CALIBRATION FOR WATER 3/12/2000
Last Update : Mon Mar 13 10:07:55 2000
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Pentafluorobenzene	1.000	1.000	0.0	100	-0.02
2	T	Dichlorodifluoromethane	0.410	0.321	21.7#	79	0.00
3	TP	Chloromethane	0.230	0.249	-8.3	111	-0.03
4	TC	Vinyl Chloride	0.325	0.304	6.5	97	0.00
5	T	Bromomethane	0.275	0.297	-8.0	103	0.00
6	T	Chloroethane	0.171	0.143	16.4	89	0.00
7	T	Trichlorofluoromethane	0.602	0.637	-5.8	100	0.01
8	T	Acrolein	0.017	0.014	17.6	89	0.00
9	T	Acrylonitrile	0.048	0.048	0.0	102	0.00
10	TMC	1,1-Dichloroethene	0.355	0.353	0.6	101	0.00
11	T	Acetone	0.029	0.020	31.0#	62	-0.03
12		Iodomethane	0.591	0.572	3.2	88	0.00
13		Allylchloride	0.188	0.189	-0.5	99	0.00
14		Carbon Disulfide	0.933	0.910	2.5	96	0.00
15		Acetonitrile	0.051	0.053	-3.9	105	0.00
16		Methylene Chloride	0.359	0.353	1.7	98	0.00
17		trans-1,2-Dichloroethene	0.395	0.384	2.8	97	0.00
18		MethylTertButylEther	0.470	0.432	8.1	80	-0.02
19	P	1,1-Dichloroethane	0.627	0.617	1.6	102	0.00
20		Vinyl Acetate	0.180	0.183	-1.7	105	-0.02
21		2,2-Dichloropropane	0.377	0.350	7.2	85	0.00
22		cis-1,2-Dichloroethene	0.414	0.412	0.5	101	-0.03
23		2-Butanone	0.025	0.022	12.0	79	-0.03
24		Propionitrile	0.017	0.018	-5.9	107	-0.03
25		Methacrylonitrile	0.094	0.097	-3.2	108	-0.03
26		Bromochloromethane	0.225	0.224	0.4	100	0.00
27	C	Chloroform	0.733	0.731	0.3	101	-0.02
28		1,1,1-Trichloroethane	0.602	0.597	0.8	99	-0.04
29		Carbon Tetrachloride	0.535	0.518	3.2	95	-0.02
30		1,4-Dioxane	0.002	0.002	0.0	107	0.00
31		1,1-Dichloropropene	0.620	0.664	-7.1	102	-0.02
32	S	1,2-Dichloroethane-d4	0.359	0.353	1.7	103	-0.02
33	M	Benzene	1.109	1.140	-2.8	106	0.00
34		Isobutyl alcohol	0.006	0.006	0.0	114	-0.03
35		1,2-Dichloroethane	0.385	0.390	-1.3	104	0.00
36	M	Trichloroethene	0.496	0.484	2.4	101	-0.02
37	C	1,2-Dichloropropane	0.415	0.432	-4.1	111	0.00
38		Dibromomethane	0.298	0.300	-0.7	103	0.00
39		Methylmethacrylate	0.174	0.188	-8.0	116	0.00
40		Bromodichloromethane	0.686	0.690	-0.6	100	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\031200\C13935.D Vial: 7
Acq On : 12 Mar 2000 4:52 pm Operator: KJ/TAG
Sample : ICV 50ppb (V00018,V00002) Inst : VOC MS #3
Misc : QC Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\HPCHEM\1\DATA\031200\031200W.M (RTE Integrator)
Title : 8260 CALIBRATION FOR WATER 3/12/2000
Last Update : Mon Mar 13 10:07:55 2000
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
41		2-Nitropropane	0.049	0.047	4.1	112	0.00
42		2-Chloroethyl-vinyl ether	0.008	0.010	-25.0#	73	-0.04
43		cis-1,3-Dichloropropene	0.536	0.555	-3.5	105	0.00
44		4-Methyl-2-Pentanone	0.034	0.038	-11.8	112	-0.02
45	I	Chlorobenzene-d5	1.000	1.000	0.0	99	0.00
46	S	Toluene-d8	1.239	1.239	0.0	105	0.00
47	MC	Toluene	0.785	0.827	-5.4	107	0.00
48		trans-1,3-Dichloropropene	0.409	0.431	-5.4	103	0.00
49		Ethylmethacrylate	0.380	0.433	-13.9	117	0.00
50		1,1,2-Trichloroethane	0.306	0.329	-7.5	109	0.00
51		Tetrachloroethene	0.415	0.418	-0.7	98	0.00
52		1,3-Dichloropropane	0.550	0.575	-4.5	106	0.00
53		2-Hexanone	0.130	0.129	0.8	94	0.00
54		Dibromochloromethane	0.508	0.517	-1.8	99	0.00
55		1,2-Dibromoethane	0.432	0.450	-4.2	104	0.00
56	MP	Chlorobenzene	0.961	0.976	-1.6	101	0.00
57		1,1,1,2-Tetrachloroethane	0.429	0.441	-2.8	99	-0.02
58	C	Ethylbenzene	1.485	1.571	-5.8	105	0.00
59	G	total-Xylene	0.875	0.905	-3.4	101	0.00
60		Styrene	0.932	1.000	-7.3	104	0.00
61	I	1,2-Dichlorobenzene-d4	1.000	1.000	0.0	92	0.00
62	P	Bromoform	0.529	0.565	-6.8	100	0.00
63		Isopropylbenzene	2.816	3.019	-7.2	103	0.00
64		1,4-dichloro-2-Butene	0.140	0.154	-10.0	102	0.00
65	S	Bromofluorobenzene	1.252	1.274	-1.8	104	0.00
66		Bromobenzene	0.768	0.831	-8.2	103	0.00
67	P	1,1,2,2-Tetrachloroethane	0.842	0.902	-7.1	104	0.00
68		1,2,3-Trichloropropane	0.725	0.797	-9.9	103	-0.02
69		n-Propylbenzene	3.272	3.287	-0.5	99	0.00
70		2-Chlorotoluene	1.917	2.219	-15.8	108	0.00
71		4-Chlorotoluene	2.548	2.699	-5.9	101	0.00
72		1,3,5-Trimethylbenzene	2.255	2.453	-8.8	105	-0.02
73		Pentachloroethane	0.487	0.542	-11.3	101	0.00
74		tert-Butylbenzene	2.874	3.089	-7.5	101	0.00
75		1,2,4-Trimethylbenzene	2.261	2.435	-7.7	103	0.00
76		sec-Butylbenzene	3.539	3.738	-5.6	100	0.00
77		1,3-Dichlorobenzene	1.343	1.407	-4.8	101	0.00
78		Isopropyltoluene	2.731	2.908	-6.5	101	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\031200\C13935.D Vial: 7
Acq On : 12 Mar 2000 4:52 pm Operator: KJ/TAG
Sample : ICV 50ppb (V00018,V00002) Inst : VOC MS #3
Misc : QC Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\HPCHEM\1\DATA\031200\031200W.M (RTE Integrator)
Title : 8260 CALIBRATION FOR WATER 3/12/2000
Last Update : Mon Mar 13 10:07:55 2000
Response via : Multiple Level Calibration

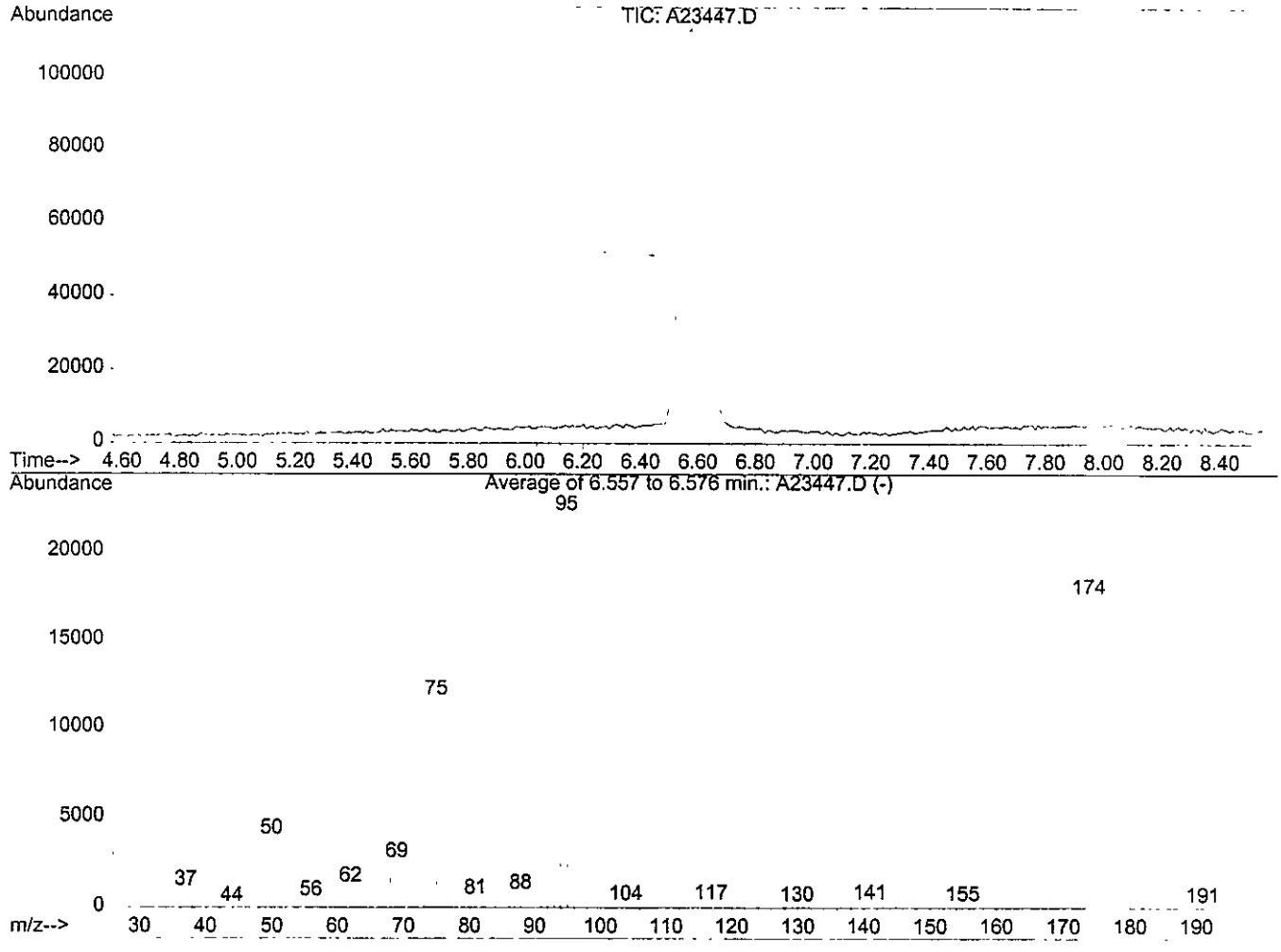
Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
79		1,4-Dichlorobenzene	1.616	1.658	-2.6	97	0.00
80		1,2-Dichlorobenzene	1.290	1.346	-4.3	99	0.00
81		n-Butylbenzene	2.755	3.004	-9.0	103	0.00
82		1,2-Dibromo-3-chloropropane	0.149	0.157	-5.4	102	0.00
83		1,2,4-trichlorobenzene	0.969	1.038	-7.1	104	0.00
84		Hexachlorobutadiene	0.658	0.694	-5.5	102	0.00
85	T	Naphthalene	1.465	1.613	-10.1	118	0.00
86		1,2,3-Trichlorobenzene	0.823	0.868	-5.5	106	0.00

BFB

Data File : C:\HPCHEM\1\DATA\032300\A23447.D
Acq On : 23 Mar 2000 8:11 am
Sample : BFB 50ng (V99050)
Misc : QC
MS Integration Params: rteint.p
Method : c:\hpchem\1\methods\BFB01.M (RTE Integrator)
Title :

Vial: 1
Operator: KJ,TAG
Inst : GC/MS Ins
Multiplr: 1.00



AutoFind: Scans 258, 259, 260; Background Corrected with Scan 247

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	17.1	3763	PASS
75	95	30	60	52.2	11525	PASS
95	95	100	100	100.0	22069	PASS
96	95	5	9	7.4	1633	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	78.7	17364	PASS
175	174	5	9	7.3	1260	PASS
176	174	95	101	96.6	16776	PASS
177	176	5	9	7.1	1198	PASS

A23447.D BFB01.M Thu Mar 23 08:21:21 2000 BONEHEAD

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\032300\A23448.D Vial: 1
Acq On : 23 Mar 2000 8:25 am Operator: KJ,TAG
Sample : CCV 50ppb (V00018,V00020) Inst : GC/MS Ins
Misc : QC Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\HPCHEM\1\DATA\032300\032300W.M (RTE Integrator)
Title : 8260 CALIBRATION FOR WATER 2/24/2000
Last Update : Wed Mar 08 23:04:31 2000
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	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Pentafluorobenzene	1.000	1.000	0.0	118	-0.02
2	T	Dichlorodifluoromethane	0.331	0.265	19.9	97	0.00
3	TP	Chloromethane	0.203	0.157	22.7	106	0.00
4	TC	Vinyl Chloride	0.215	0.198	7.9	110	0.00
5	T	Bromomethane	0.160	0.159	0.6	125	0.00
6	T	Chloroethane	0.106	0.106	0.0	105	-0.01
7	T	Trichlorofluoromethane	0.657	0.661	-0.6	117	-0.01
8	T	Acrolein	0.014	0.012	14.3	152#	-0.02
9	T	Acrylonitrile	0.050	0.041	18.0	107	-0.02
10	TMC	1,1-Dichloroethene	0.282	0.272	3.5	119	-0.01
11	T	Acetone	0.021	0.017	19.0	75	0.00
12		Iodomethane	0.456	0.665	-45.8#	155#	-0.03
13		Allylchloride	0.127	0.134	-5.5	126	-0.02
14		Carbon Disulfide	0.632	0.675	-6.8	130	-0.02
15		Acetonitrile	0.046	0.045	2.2	120	-0.01
16		Methylene Chloride	0.274	0.269	1.8	121	-0.01
17		trans-1,2-Dichloroethene	0.305	0.295	3.3	116	-0.02
18		MethylTertButylEther	0.699	0.631	9.7	115	-0.02
19	P	1,1-Dichloroethane	0.527	0.511	3.0	119	-0.02
20		Vinyl Acetate	0.154	0.232	-50.6#	191#	-0.03
21		2,2-Dichloropropane	0.472	0.439	7.0	105	-0.03
22		cis-1,2-Dichloroethene	0.335	0.319	4.8	114	-0.01
23		2-Butanone	0.025	0.021	16.0	87	0.00
24		Propionitrile	0.019	0.015	21.1	111	-0.02
25		Methacrylonitrile	0.104	0.084	19.2	107	-0.02
26		Bromochloromethane	0.202	0.198	2.0	119	-0.02
27	C	Chloroform	0.687	0.670	2.5	117	-0.02
28		1,1,1-Trichloroethane	0.662	0.627	5.3	112	-0.02
29		Carbon Tetrachloride	0.554	0.454	18.1	90	0.00
30		1,4-Dioxane	0.002	0.002	0.0	113	-0.02
31		1,1-Dichloropropene	0.499	0.475	4.8	114	-0.02
32	S	1,2-Dichloroethane-d4	0.402	0.395	1.7	122	-0.02
33	M	Benzene	0.855	0.796	6.9	113	-0.01
34		Isobutyl alcohol	0.007	0.005	28.6#	113	0.00
35		1,2-Dichloroethane	0.426	0.404	5.2	115	-0.02
36	M	Trichloroethene	0.480	0.445	7.3	113	0.00
37	C	1,2-Dichloropropane	0.343	0.325	5.2	114	0.00
38		Dibromomethane	0.253	0.256	-1.2	119	-0.02
39		Methylmethacrylate	0.185	0.164	11.4	110	-0.01
40		Bromodichloromethane	0.641	0.606	5.5	106	-0.02

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\032300\A23448.D Vial: 1
Acq On : 23 Mar 2000 8:25 am Operator: KJ,TAG
Sample : CCV 50ppb (V00018,V00020) Inst : GC/MS Ins
Misc : QC Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\HPCHEM\1\DATA\032300\032300W.M (RTE Integrator)
Title : 8260 CALIBRATION FOR WATER 2/24/2000
Last Update : Wed Mar 08 23:04:31 2000
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	AvgRF	CCRF	%Dev	Area%	Dev(min)
41		2-Nitropropane	0.168	0.130	22.6	87	0.00
42		2-Chloroethyl-vinyl ether	0.032	0.052	-62.5#	180#	-0.01
43		cis-1,3-Dichloropropene	0.478	0.485	-1.5	116	-0.01
44		4-Methyl-2-Pentanone	0.044	0.039	11.4	109	-0.01
45	I	Chlorobenzene-d5	1.000	1.000	0.0	116	0.00
46	S	Toluene-d8	1.165	1.176	-0.9	118	-0.01
47	MC	Toluene	0.707	0.696	1.6	114	-0.02
48		trans-1,3-Dichloropropene	0.506	0.504	0.4	115	-0.01
49		Ethylmethacrylate	0.477	0.437	8.4	113	-0.01
50		1,1,2-Trichloroethane	0.320	0.298	6.9	112	-0.01
51		Tetrachloroethene	0.519	0.540	-4.0	117	0.00
52		1,3-Dichloropropane	0.570	0.544	4.6	114	-0.01
53		2-Hexanone	0.200	0.157	21.5	87	0.00
54		Dibromochloromethane	0.652	0.632	3.1	113	-0.01
55		1,2-Dibromoethane	0.517	0.490	5.2	111	-0.01
56	MP	Chlorobenzene	0.949	0.958	-0.9	116	0.00
57		1,1,1,2-Tetrachloroethane	0.529	0.546	-3.2	116	0.00
58	C	Ethylbenzene	1.483	1.481	0.1	115	-0.01
59	G	total-Xylene	0.541	0.562	-3.9	117	0.00
60		Styrene	0.927	0.959	-3.5	117	0.00
61	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	122	-0.01
62	P	Bromoform	0.747	0.714	4.4	117	0.00
63		Isopropylbenzene	2.495	2.454	1.6	119	-0.01
64		1,4-dichloro-2-Butene	0.121	0.154	-27.3#	189#	0.00
65	S	Bromofluorobenzene	1.260	1.204	4.4	121	0.00
66		Bromobenzene	0.854	0.830	2.8	121	-0.01
67	P	1,1,2,2-Tetrachloroethane	0.843	0.715	15.2	110	-0.01
68		1,2,3-Trichloropropane	0.748	0.623	16.7	110	-0.01
69		n-Propylbenzene	2.910	2.786	4.3	117	0.00
70		2-Chlorotoluene	1.768	1.718	2.8	121	-0.01
71		4-Chlorotoluene	2.338	2.238	4.3	116	-0.01
72		1,3,5-Trimethylbenzene	2.199	2.151	2.2	119	-0.01
73		Pentachloroethane	0.546	0.579	-6.0	124	-0.01
74		tert-Butylbenzene	2.635	2.638	-0.1	120	-0.01
75		1,2,4-Trimethylbenzene	2.248	2.222	1.2	120	-0.02
76		sec-Butylbenzene	3.004	2.975	1.0	120	-0.01
77		1,3-Dichlorobenzene	1.407	1.410	-0.2	122	-0.02
78		Isopropyltoluene	2.504	2.516	-0.5	121	-0.01

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\032300\A23448.D Vial: 1
Acq On : 23 Mar 2000 8:25 am Operator: KJ,TAG
Sample : CCV 50ppb (V00018,V00020) Inst : GC/MS Ins
Misc : QC Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\HPCHEM\1\DATA\032300\032300W.M (RTE Integrator)
Title : 8260 CALIBRATION FOR WATER 2/24/2000
Last Update : Wed Mar 08 23:04:31 2000
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	AvgRF	CCRF	%Dev	Area%	Dev(min)
79	1,4-Dichlorobenzene	1.485	1.493	-0.5	123	-0.02
80	1,2-Dichlorobenzene	1.287	1.317	-2.3	122	-0.01
81	n-Butylbenzene	2.379	2.408	-1.2	121	-0.02
82	1,2-Dibromo-3-chloropropane	0.230	0.186	19.1	111	-0.03
83	1,2,4-trichlorobenzene	1.219	1.138	6.6	118	-0.02
84	Hexachlorobutadiene	0.979	0.853	12.9	103	-0.03
85	Naphthalene	1.790	1.214	32.2#	98	-0.02
86	1,2,3-Trichlorobenzene	1.102	0.872	20.9	104	-0.03

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\032300\A23448.D
Acq On : 23 Mar 2000 8:25 am
Sample : CCV 50ppb (V00018,V00020)
Misc : QC
MS Integration Params: rteint.p
Quant Time: Mar 23 8:51 2000

Vial: 1
Operator: KJ,TAG
Inst : GC/MS Ins
Multiplr: 1.00

Quant Results File: 032300W.RES

Quant Method : C:\HPCHEM\1\DATA\032300\032300W.M (RTE Integrator)
Title : 8260 CALIBRATION FOR WATER 2/24/2000
Last Update : Mon Mar 13 09:17:29 2000
Response via : Initial Calibration
DataAcq Meth : 032300W

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Pentafluorobenzene	7.01	168	669456	50.00	ug\L		-0.02
45) Chlorobenzene-d5	13.48	117	557702	50.00	ug\L		0.00
61) 1,4-Dichlorobenzene-d4	17.71	152	387432	50.00	ug\L		-0.01
System Monitoring Compounds							
32) 1,2-Dichloroethane-d4	7.45	65	264180	49.06	ug\L		-0.02
Spiked Amount 50.000	Range 80 - 120		Recovery = 98.12%				
46) Toluene-d8	10.92	98	655723	50.44	ug\L		-0.01
Spiked Amount 50.000	Range 87 - 104		Recovery = 100.88%				
65) Bromofluorobenzene	15.63	95	466388	47.75	ug\L		0.00
Spiked Amount 50.000	Range 84 - 110		Recovery = 95.50%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.72	85	177451	40.06	ug\L		100
3) Chloromethane	1.89	50	105034	38.66	ug\L		99
4) Vinyl Chloride	1.99	62	132567	46.06	ug\L		99
5) Bromomethane	2.30	94	106664	57.22	ug\L		97
6) Chloroethane	2.40	64	70963	61.73	ug\L		99
7) Trichlorofluoromethane	2.67	101	442277	50.31	ug\L	#	100
8) Acrolein	3.13	56	16029	88.18	ug\L		100
9) Acrylonitrile	4.20	53	54447	81.98	ug\L		96
10) 1,1-Dichloroethene	3.24	96	181790	48.06	ug\L		99
11) Acetone	3.31	58	11477	40.68	ug\L		92
12) Iodomethane	3.41	142	444893	72.85	ug\L		97
13) Allylchloride	3.68	76	90028	53.07	ug\L		94
14) Carbon Disulfide	3.49	76	452175	53.39	ug\L		99
15) Acetonitrile	3.69	41	302451	488.14	ug\L		98
16) Methylene Chloride	3.85	84	180286	49.14	ug\L		98
17) trans-1,2-Dichloroethene	4.25	96	197640	48.32	ug\L		98
18) MethylTertButylEther	4.28	73	422573	45.16	ug\L		100
19) 1,1-Dichloroethane	4.91	63	342332	48.50	ug\L		99
20) Vinyl Acetate	5.05	43	155293	75.52	ug\L		96
21) 2,2-Dichloropropane	5.94	77	293699	46.46	ug\L		100
22) cis-1,2-Dichloroethene	5.97	96	213702	47.63	ug\L		99
23) 2-Butanone	6.05	72	14280	40.00	ug\L	#	17
24) Propionitrile	6.14	54	99865	393.34	ug\L	#	99
25) Methacrylonitrile	6.41	41	565523	407.04	ug\L		98
26) Bromochloromethane	6.40	128	132700	49.05	ug\L		98
27) Chloroform	6.59	83	448572	48.77	ug\L		99
28) 1,1,1-Trichloroethane	6.86	97	420013	47.35	ug\L		93

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

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\032300\A23448.D Vial: 1
Acq On : 23 Mar 2000 8:25 am Operator: KJ,TAG
Sample : CCV 50ppb (V00018,V00020) Inst : GC/MS Ins
Misc : QC Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Mar 23 8:51 2000 Quant Results File: 032300W.RES

Quant Method : C:\HPCHEM\1\DATA\032300\032300W.M (RTE Integrator)
Title : 8260 CALIBRATION FOR WATER 2/24/2000
Last Update : Mon Mar 13 09:17:29 2000
Response via : Initial Calibration
DataAcq Meth : 032300W

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
29)	Carbon Tetrachloride	7.18	117	303838	40.94	ug\L		97
30)	1,4-Dioxane	9.44	88	22276	732.42	ug\L	#	93
31)	1,1-Dichloropropene	7.18	75	317881	47.57	ug\L		98
33)	Benzene	7.55	78	532886	46.57	ug\L		100
34)	Isobutyl alcohol	7.63	43	64907	759.85	ug\L		99
35)	1,2-Dichloroethane	7.59	62	270300	47.42	ug\L		100
36)	Trichloroethene	8.75	95	297860	46.39	ug\L		99
37)	1,2-Dichloropropane	9.14	63	217380	47.32	ug\L		99
38)	Dibromomethane	9.33	93	171340	50.68	ug\L		98
39)	Methylmethacrylate	9.44	69	109808	44.24	ug\L		99
40)	Bromodichloromethane	9.66	83	405861	47.26	ug\L		98
41)	2-Nitropropane	12.29	43	87311	38.93	ug\L		97
42)	2-Chloroethyl-vinyl ether	10.26	63	35002	64.23	ug\L		96
43)	cis-1,3-Dichloropropene	10.46	75	324409	50.64	ug\L		98
44)	4-Methyl-2-Pentanone	10.79	85	26024	44.49	ug\L	#	95
47)	Toluene	11.03	92	388403	49.23	ug\L		100
48)	trans-1,3-Dichloropropene	11.48	75	280809	49.72	ug\L		98
49)	Ethylmethacrylate	11.71	69	243884	45.87	ug\L	#	99
50)	1,1,2-Trichloroethane	11.78	83	166201	46.61	ug\L		99
51)	Tetrachloroethene	12.01	164	301324	52.06	ug\L		99
52)	1,3-Dichloropropane	12.07	76	303364	47.74	ug\L		100
53)	2-Hexanone	12.29	43	87311	39.13	ug\L		99
54)	Dibromochloromethane	12.47	129	352582	48.50	ug\L		99
55)	1,2-Dibromoethane	12.63	107	273331	47.40	ug\L		100
56)	Chlorobenzene	13.53	112	534253	50.47	ug\L		100
57)	1,1,1,2-Tetrachloroethane	13.70	131	304336	51.59	ug\L		100
58)	Ethylbenzene	13.76	91	826138	49.94	ug\L		99
59)	total-Xylene	13.99	106	939816m	155.72	ug\L		
60)	Styrene	14.71	104	534597	51.72	ug\L		100
62)	Bromoform	15.02	173	276535	47.75	ug\L		100
63)	Isopropylbenzene	15.36	105	950725	49.17	ug\L		98
64)	1,4-dichloro-2-Butene	15.51	53	59641	58.73	ug\L	#	24
66)	Bromobenzene	15.86	156	321681	48.62	ug\L		94
67)	1,1,2,2-Tetrachloroethane	15.94	83	277188	42.43	ug\L		99
68)	1,2,3-Trichloropropane	15.98	75	241187	41.62	ug\L	#	100
69)	n-Propylbenzene	16.12	91	1079437	47.87	ug\L		100
70)	2-Chlorotoluene	16.23	91	665714	48.60	ug\L		98
71)	4-Chlorotoluene	16.44	91	867209	47.87	ug\L		99
72)	1,3,5-Trimethylbenzene	16.46	105	833337	48.91	ug\L		99
73)	Pentachloroethane	17.05	167	224293	52.99	ug\L		98

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

Data File : C:\HPCHEM\1\DATA\032300\A23448.D Vial: 1
Acq On : 23 Mar 2000 8:25 am Operator: KJ,TAG
Sample : CCV 50ppb (V00018,V00020) Inst : GC/MS Ins
Misc : QC Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Mar 23 8:51 2000 Quant Results File: 032300W.RES

Quant Method : C:\HPCHEM\1\DATA\032300\032300W.M (RTE Integrator)
Title : 8260 CALIBRATION FOR WATER 2/24/2000
Last Update : Mon Mar 13 09:17:29 2000
Response via : Initial Calibration
DataAcq Meth : 032300W

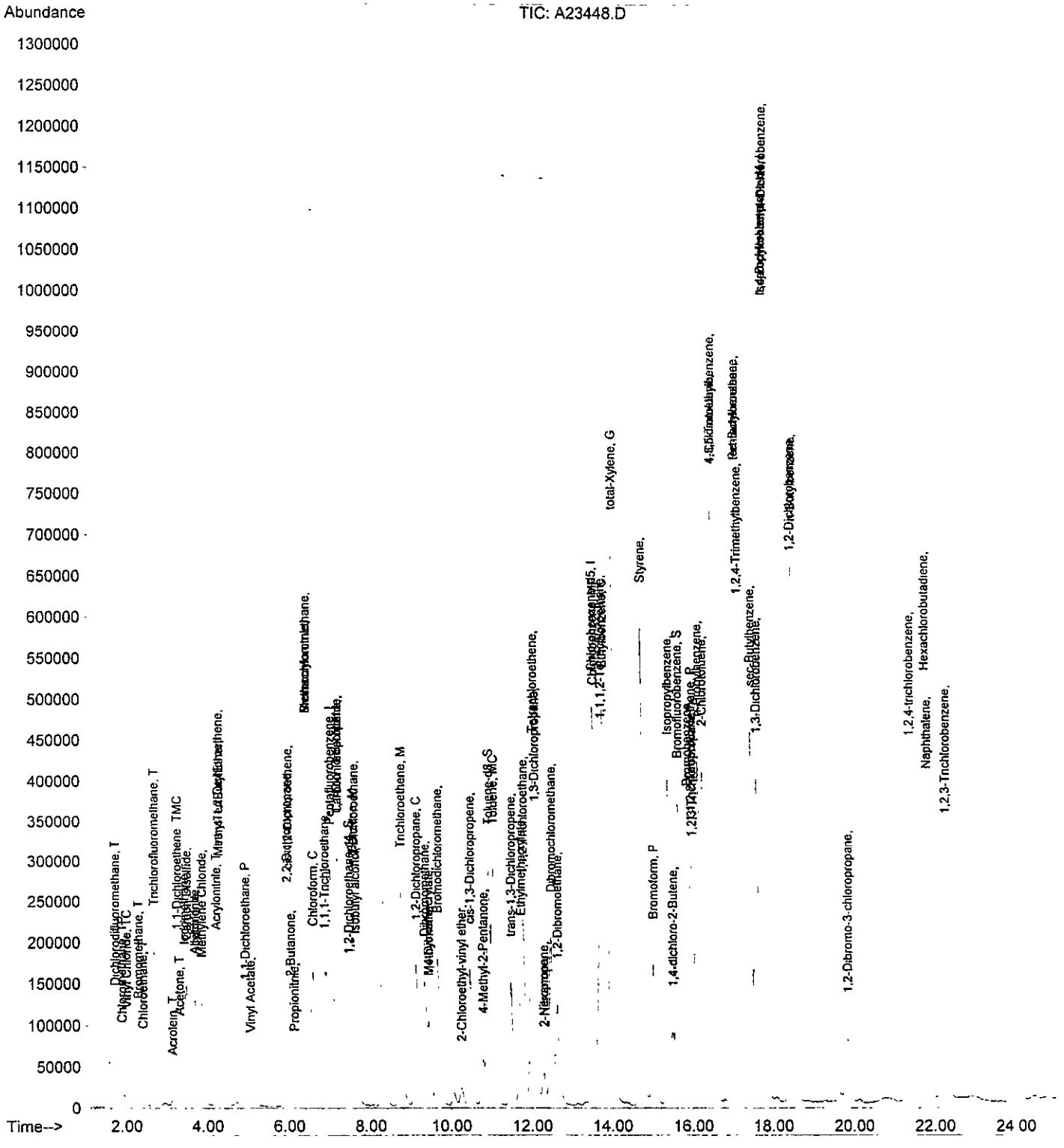
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
74)	tert-Butylbenzene	17.04	119	1022229	50.07	ug\L	100
75)	1,2,4-Trimethylbenzene	17.11	105	860976	49.43	ug\L	100
76)	sec-Butylbenzene	17.44	105	1152680	49.52	ug\L	100
77)	1,3-Dichlorobenzene	17.59	146	546302	50.10	ug\L	100
78)	Isopropyltoluene	17.72	119	974591	50.22	ug\L	99
79)	1,4-Dichlorobenzene	17.75	146	578355	50.26	ug\L	98
80)	1,2-Dichlorobenzene	18.42	146	510389	51.20	ug\L	99
81)	n-Butylbenzene	18.46	91	933105	50.61	ug\L	100
82)	1,2-Dibromo-3-chloropropan	19.85	75	71995	40.40	ug\L	96
83)	1,2,4-trichlorobenzene	21.38	180	440843	46.67	ug\L	100
84)	Hexachlorobutadiene	21.74	225	330612	43.58	ug\L	100
85)	Naphthalene	21.81	128	470167	36.65	ug\L	100
86)	1,2,3-Trichlorobenzene	22.26	180	337986	39.58	ug\L	99

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

Quantitation Report

Data File : C:\HPCHEM\1\DATA\032300\A23448.D Vial: 1
Acq On : 23 Mar 2000 8:25 am Operator: KJ,TAG
Sample : CCV 50ppb (V00018,V00020) Inst : GC/MS Ins
Misc : QC Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Mar 23 8:51 2000 Quant Results File: 032300W.RES

Method : C:\HPCHEM\1\DATA\032300\032300W.M (RTE Integrator)
Title : 8260 CALIBRATION FOR WATER 2/24/2000
Last Update : Wed Mar 08 23:04:31 2000
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\032300\A23449.D Vial: 2
Acq On : 23 Mar 2000 9:04 am Operator: KJ,TAG
Sample : WATER BLANK 5ml DF=1 Inst : GC/MS Ins
Misc : QC Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Mar 23 9:29 2000 Quant Results File: 032300W.RES

Quant Method : C:\HPCHEM\1\DATA\032300\032300W.M (RTE Integrator)
Title : 8260 CALIBRATION FOR WATER 2/24/2000
Last Update : Mon Mar 13 09:17:29 2000
Response via : Initial Calibration
DataAcq Meth : 032300W

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.02	168	714043	50.00	ug\L	-0.01
45) Chlorobenzene-d5	13.47	117	608707	50.00	ug\L	-0.01
61) 1,4-Dichlorobenzene-d4	17.71	152	346093	50.00	ug\L	-0.01
System Monitoring Compounds						
32) 1,2-Dichloroethane-d4	7.47	65	273825	47.68	ug\L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 95.36%			
46) Toluene-d8	10.92	98	708412	49.93	ug\L	-0.01
Spiked Amount 50.000	Range 87 - 104		Recovery = 99.86%			
65) Bromofluorobenzene	15.62	95	419381	48.07	ug\L	-0.01
Spiked Amount 50.000	Range 84 - 110		Recovery = 96.14%			
Target Compounds						Qvalue
5) Bromomethane	2.40	94	349	-6.90	ug\L	93
11) Acetone	3.32	58	848	-10.50	ug\L	70
16) Methylene Chloride	3.86	84	6731	1.72	ug\L	96
29) Carbon Tetrachloride	7.02	117	75115	9.49	ug\L #	7
31) 1,1-Dichloropropene	7.00	75	57766	8.10	ug\L #	49
34) Isobutyl alcohol	7.63	43	61	62.92	ug\L #	14
68) 1,2,3-Trichloropropane	15.61	75	214622	41.46	ug\L #	100
82) 1,2-Dibromo-3-chloropropan	19.87	75	1666	1.05	ug\L #	73
83) 1,2,4-trichlorobenzene	21.39	180	17785	2.11	ug\L	100
84) Hexachlorobutadiene	21.75	225	8173	1.21	ug\L	100
86) 1,2,3-Trichlorobenzene	22.26	180	20266	2.66	ug\L	98

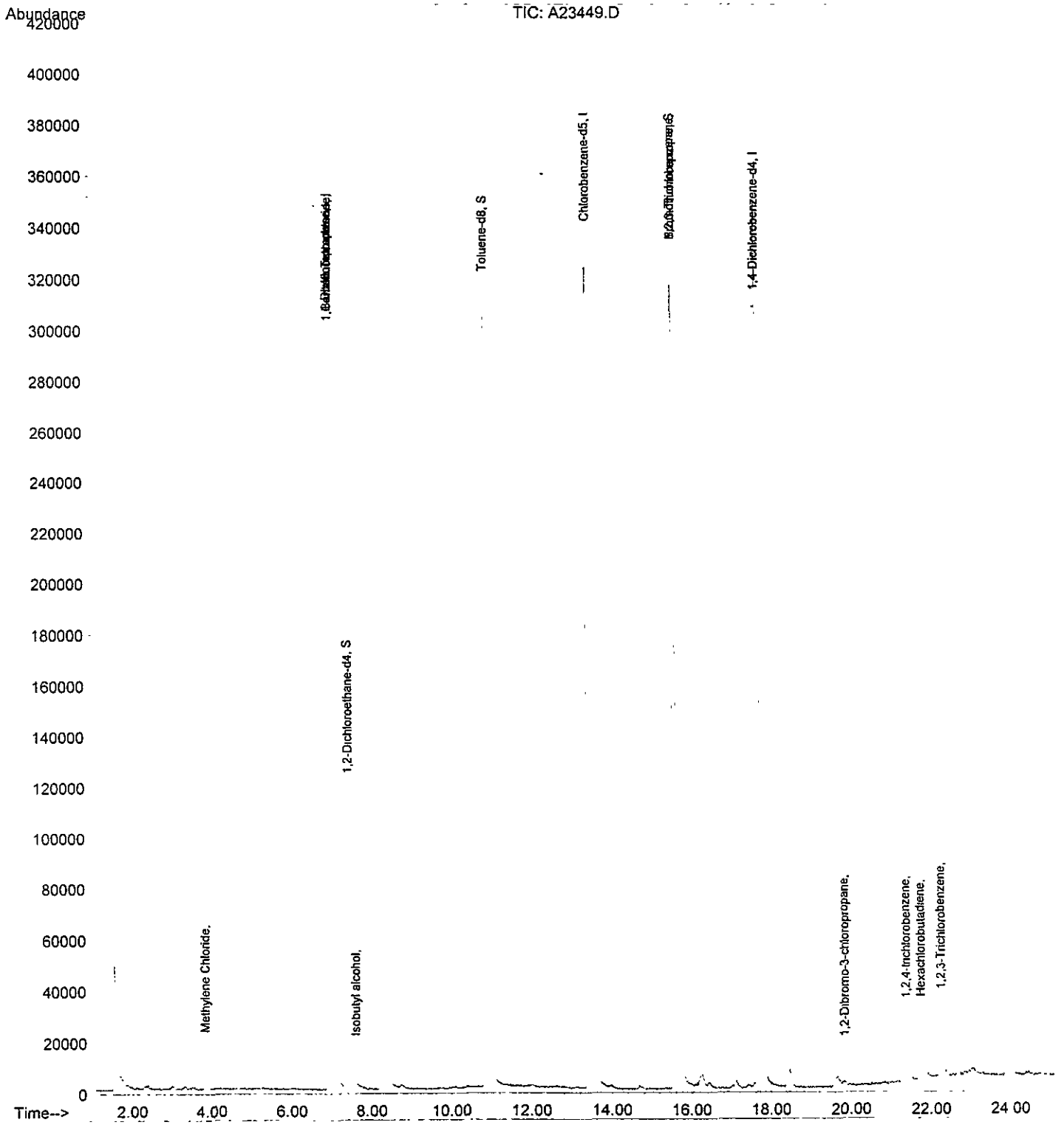
KG 3/13/00

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

Quantitation Report

Data File : C:\HPCHEM\1\DATA\032300\A23449.D Vial: 2
Acq On : 23 Mar 2000 9:04 am Operator: KJ,TAG
Sample : WATER BLANK 5ml DF=1 Inst : GC/MS Ins
Misc : QC Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Mar 23 9:29 2000 Quant Results File: 032300W.RES

Method : C:\HPCHEM\1\DATA\032300\032300W.M (RTE Integrator)
Title : 8260 CALIBRATION FOR WATER 2/24/2000
Last Update : Wed Mar 08 23:04:31 2000
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\032300\A23450.D Vial: 2
Acq On : 23 Mar 2000 9:45 am Operator: KJ,TAG
Sample : WATER BLANK 5ml DF=1 Inst : GC/MS Ins
Misc : QC Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Mar 23 10:11 2000 Quant Results File: 032300W.RES

Quant Method : C:\HPCHEM\1\DATA\032300\032300W.M (RTE Integrator)
Title : 8260 CALIBRATION FOR WATER 2/24/2000
Last Update : Mon Mar 13 09:17:29 2000
Response via : Initial Calibration
DataAcq Meth : 032300W

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.02	168	687457	50.00	ug\L	-0.01
45) Chlorobenzene-d5	13.47	117	582991	50.00	ug\L	-0.01
61) 1,4-Dichlorobenzene-d4	17.71	152	390925	50.00	ug\L	-0.01
System Monitoring Compounds						
32) 1,2-Dichloroethane-d4	7.46	65	264578	47.85	ug\L	-0.01
Spiked Amount 50.000	Range 80 - 120		Recovery = 95.70%			
46) Toluene-d8	10.93	98	688809	50.69	ug\L	0.00
Spiked Amount 50.000	Range 87 - 104		Recovery = 101.38%			
65) Bromofluorobenzene	15.62	95	474913	48.19	ug\L	-0.01
Spiked Amount 50.000	Range 84 - 110		Recovery = 96.38%			
Target Compounds						Qvalue
5) Bromomethane	2.35	94	486	-6.81	ug\L	92
11) Acetone	3.29	58	82	-13.93	ug\L #	1
16) Methylene Chloride	3.85	84	8586	2.28	ug\L	97
29) Carbon Tetrachloride	7.01	117	72969	9.58	ug\L #	2
31) 1,1-Dichloropropene	7.02	75	55973	8.16	ug\L #	42
36) Trichloroethene	8.30	95	17319	2.63	ug\L #	3
68) 1,2,3-Trichloropropane	15.62	75	247391	42.30	ug\L #	100
85) Naphthalene	21.81	128	5463	-2.33	ug\L	100

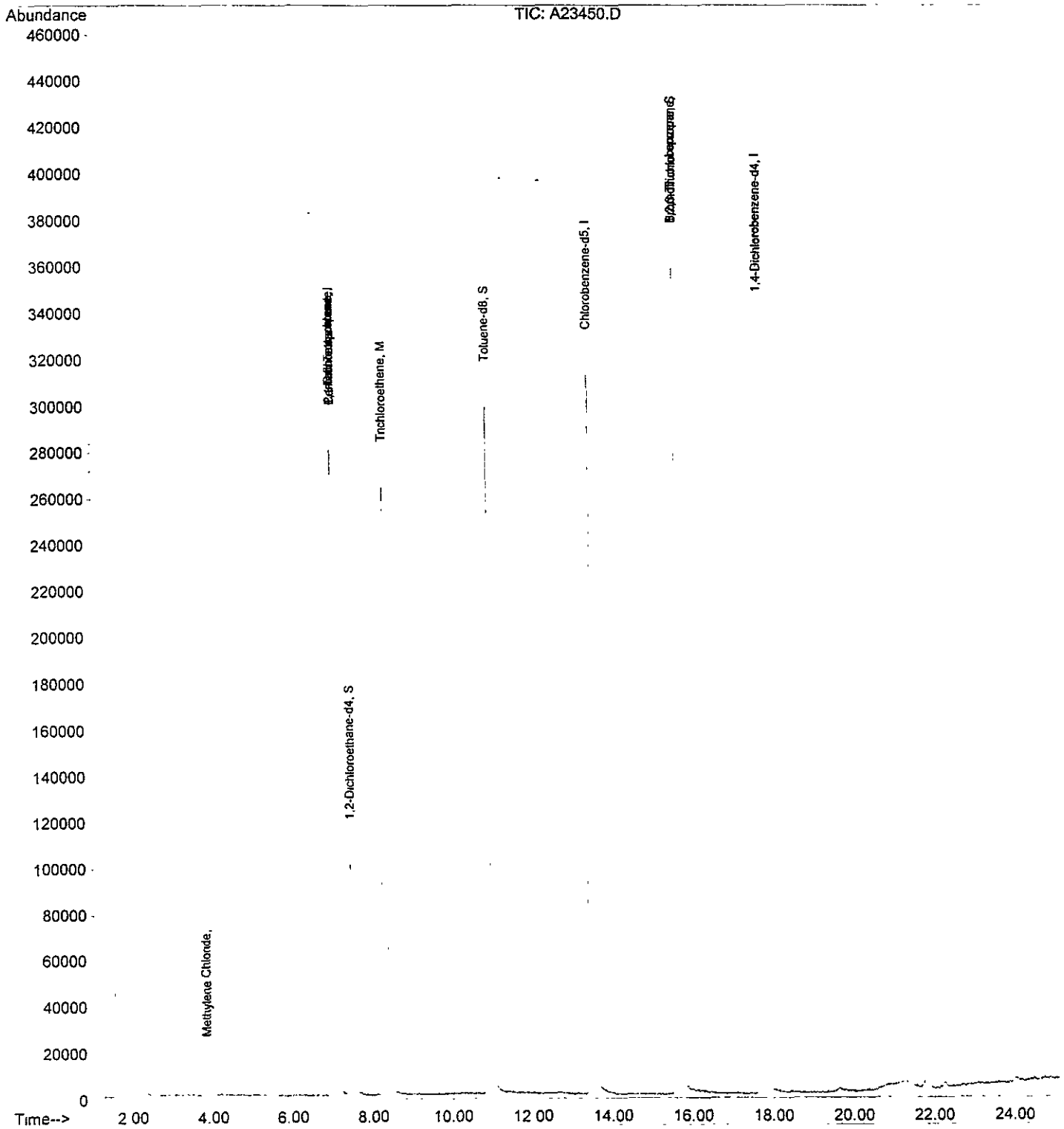
KJ 3/23/00

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

Quantitation Report

Data File : C:\HPCHEM\1\DATA\032300\A23450.D Vial: 2
Acq On : 23 Mar 2000 9:45 am Operator: KJ,TAG
Sample : WATER BLANK 5ml DF=1 Inst : GC/MS Ins
Misc : QC Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Mar 23 10:11 2000 Quant Results File: 032300W.RES

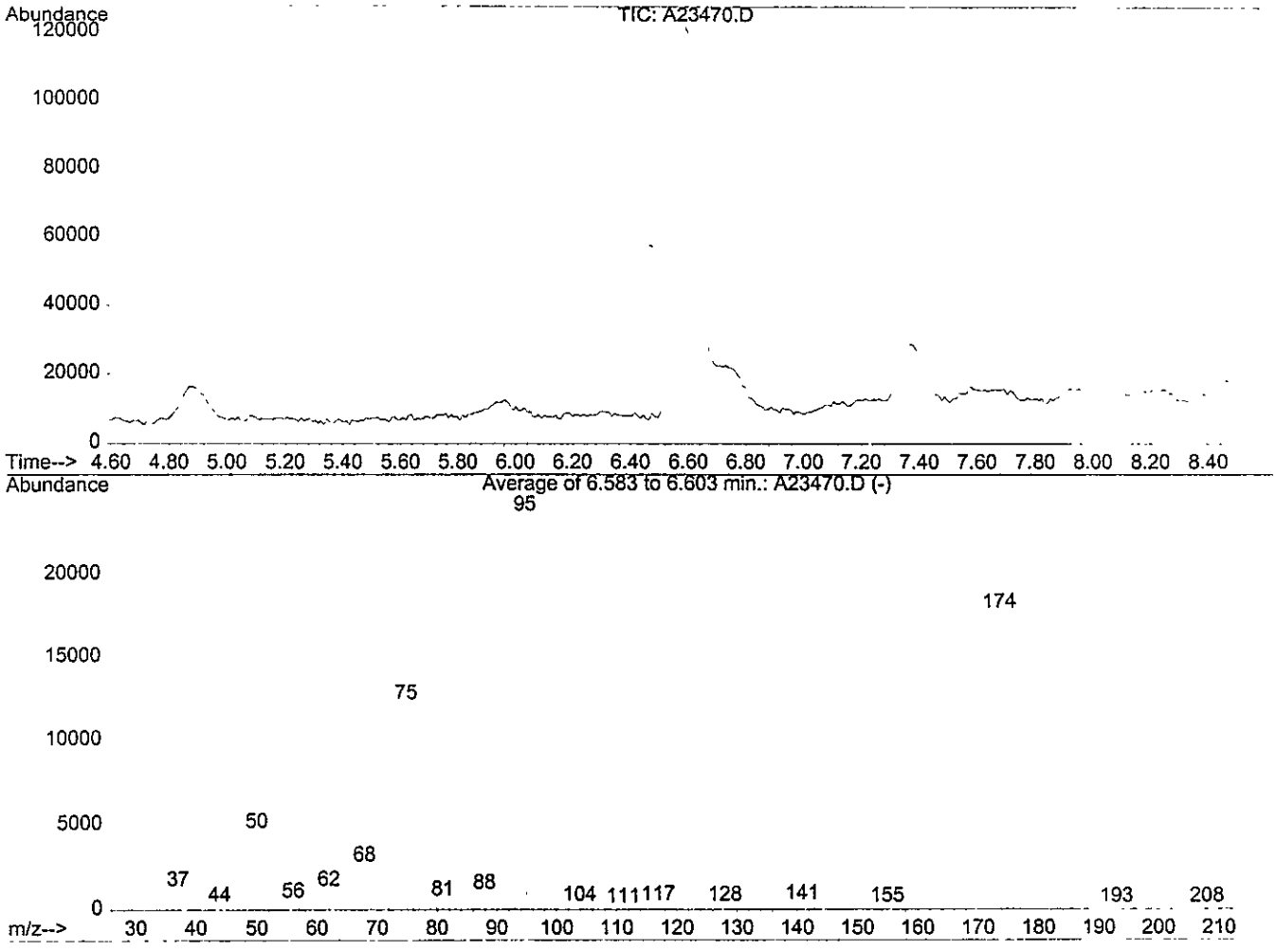
Method : C:\HPCHEM\1\DATA\032300\032300W.M (RTE Integrator)
Title : 8260 CALIBRATION FOR WATER 2/24/2000
Last Update : Wed Mar 08 23:04:31 2000
Response via : Initial Calibration



BFB

Data File : C:\HPCHEM\1\DATA\032400\A23470.D
Acq On : 24 Mar 2000 10:10 am
Sample : BFB 50ng (V99050)
Misc : QC
MS Integration Params: rteint.p
Method : C:\HPCHEM\1\METHODS\BFB01.M (RTE Integrator)
Title :

Vial: 1
Operator: KJ,TAG
Inst : GC/MS Ins
Multiplr: 1.00



AutoFind: Scans 261, 262, 263; Background Corrected with Scan 250

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	19.0	4470	PASS
75	95	30	60	51.4	12095	PASS
95	95	100	100	100.0	23521	PASS
96	95	5	9	6.7	1578	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	75.0	17645	PASS
175	174	5	9	8.1	1421	PASS
176	174	95	101	98.7	17411	PASS
177	176	5	9	6.6	1154	PASS

A23470.D BFB01.M Fri Mar 24 10:20:00 2000 BONEHEAD

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\032400\A23472.D Vial: 1
Acq On : 24 Mar 2000 11:33 am Operator: KJ,TAG
Sample : CCV 50ppb (V00018,V00020) Inst : GC/MS Ins
Misc : QC Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\HPCHEM\1\DATA\032400\032400W.M (RTE Integrator)
Title : 8260 CALIBRATION FOR WATER 2/24/2000
Last Update : Wed Mar 08 23:04:31 2000
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	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Pentafluorobenzene	1.000	1.000	0.0	125	0.00
2	T	Dichlorodifluoromethane	0.331	0.264	20.2	103	0.00
3	TP	Chloromethane	0.203	0.167	17.7	120	0.01
4	TC	Vinyl Chloride	0.215	0.208	3.3	122	0.00
5	T	Bromomethane	0.160	0.168	-5.0	140	0.00
6	T	Chloroethane	0.106	0.143	-34.9#	150#	0.00
7	T	Trichlorofluoromethane	0.657	0.678	-3.2	127	0.00
8	T	Acrolein	0.014	0.017	-21.4	223#	0.00
9	T	Acrylonitrile	0.050	0.057	-14.0	159#	0.02
10	TMC	1,1-Dichloroethene	0.282	0.287	-1.8	133	0.00
11	T	Acetone	0.021	0.022	-4.8	104	0.02
12		Iodomethane	0.456	0.432	5.3	107	-0.02
13		Allylchloride	0.127	0.133	-4.7	132	0.01
14		Carbon Disulfide	0.632	0.683	-8.1	140	0.00
15		Acetonitrile	0.046	0.049	-6.5	137	0.00
16		Methylene Chloride	0.274	0.515	-88.0#	245#	0.00
17		trans-1,2-Dichloroethene	0.305	0.317	-3.9	132	0.00
18		MethylTertButylEther	0.699	0.761	-8.9	146	0.00
19	P	1,1-Dichloroethane	0.527	0.544	-3.2	134	0.01
20		Vinyl Acetate	0.154	0.294	-90.9#	256#	0.00
21		2,2-Dichloropropane	0.472	0.504	-6.8	127	0.01
22		cis-1,2-Dichloroethene	0.335	0.344	-2.7	131	0.02
23		2-Butanone	0.025	0.030	-20.0	129	0.03
24		Propionitrile	0.019	0.022	-15.8	176#	0.00
25		Methacrylonitrile	0.104	0.111	-6.7	149	0.00
26		Bromochloromethane	0.202	0.217	-7.4	138	0.00
27	C	Chloroform	0.687	0.717	-4.4	133	0.00
28		1,1,1-Trichloroethane	0.662	0.668	-0.9	126	0.01
29		Carbon Tetrachloride	0.554	0.423	23.6	89	0.01
30		1,4-Dioxane	0.002	0.003	-50.0#	198#	0.01
31		1,1-Dichloropropene	0.499	0.509	-2.0	130	0.00
32	S	1,2-Dichloroethane-d4	0.402	0.421	-4.7	137	0.00
33	M	Benzene	0.855	0.875	-2.3	131	0.00
34		Isobutyl alcohol	0.007	0.008	-14.3	199#	0.01
35		1,2-Dichloroethane	0.426	0.455	-6.8	137	0.00
36	M	Trichloroethene	0.480	0.465	3.1	125	0.01
37	C	1,2-Dichloropropane	0.343	0.344	-0.3	128	0.01
38		Dibromomethane	0.253	0.257	-1.6	126	0.00
39		Methylmethacrylate	0.185	0.218	-17.8	154#	0.02
40		Bromodichloromethane	0.641	0.626	2.3	116	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\032400\A23472.D Vial: 1
Acq On : 24 Mar 2000 11:33 am Operator: KJ,TAG
Sample : CCV 50ppb (V00018,V00020) Inst : GC/MS Ins
Misc : QC Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\HPCHEM\1\DATA\032400\032400W.M (RTE Integrator)
Title : 8260 CALIBRATION FOR WATER 2/24/2000
Last Update : Wed Mar 08 23:04:31 2000
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	AvgRF	CCRF	%Dev	Area%	Dev(min)
41		2-Nitropropane	0.168	0.148	11.9	105	0.00
42		2-Chloroethyl-vinyl ether	0.032	0.072	-125.0#	263#	0.00
43		cis-1,3-Dichloropropene	0.478	0.391	18.2	99	0.00
44		4-Methyl-2-Pentanone	0.044	0.052	-18.2	156#	0.00
45	I	Chlorobenzene-d5	1.000	1.000	0.0	105	0.00
46	S	Toluene-d8	1.165	1.353	-16.1	123	0.00
47	MC	Toluene	0.707	0.844	-19.4	126	0.00
48		trans-1,3-Dichloropropene	0.506	0.497	1.8	103	0.00
49		Ethylmethacrylate	0.477	0.542	-13.6	126	0.00
50		1,1,2-Trichloroethane	0.320	0.330	-3.1	112	0.00
51		Tetrachloroethene	0.519	0.509	1.9	100	0.01
52		1,3-Dichloropropane	0.570	0.575	-0.9	109	0.00
53		2-Hexanone	0.200	0.208	-4.0	105	0.00
54		Dibromochloromethane	0.652	0.619	5.1	100	0.00
55		1,2-Dibromoethane	0.517	0.537	-3.9	110	0.00
56	MP	Chlorobenzene	0.949	0.954	-0.5	105	0.00
57		1,1,1,2-Tetrachloroethane	0.529	0.550	-4.0	106	0.01
58	C	Ethylbenzene	1.483	1.544	-4.1	109	0.00
59	G	total-Xylene	0.541	0.555	-2.6	105	0.00
60		Styrene	0.927	0.963	-3.9	107	0.00
61	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	108	0.00
62	P	Bromoform	0.747	0.797	-6.7	116	0.00
63		Isopropylbenzene	2.495	2.493	0.1	108	0.00
64		1,4-dichloro-2-Butene	0.121	0.215	-77.7#	236#	0.00
65	S	Bromofluorobenzene	1.260	1.245	1.2	111	0.00
66		Bromobenzene	0.854	0.859	-0.6	112	0.00
67	P	1,1,2,2-Tetrachloroethane	0.843	0.906	-7.5	125	0.00
68		1,2,3-Trichloropropane	0.748	0.837	-11.9	132	0.00
69		n-Propylbenzene	2.910	3.077	-5.7	116	0.00
70		2-Chlorotoluene	1.768	1.726	2.4	108	0.00
71		4-Chlorotoluene	2.338	2.409	-3.0	112	0.00
72		1,3,5-Trimethylbenzene	2.199	2.239	-1.8	110	0.00
73		Pentachloroethane	0.546	0.602	-10.3	115	0.00
74		tert-Butylbenzene	2.635	2.701	-2.5	110	0.00
75		1,2,4-Trimethylbenzene	2.248	2.283	-1.6	110	0.00
76		sec-Butylbenzene	3.004	3.046	-1.4	109	0.00
77		1,3-Dichlorobenzene	1.407	1.427	-1.4	110	-0.02
78		Isopropyltoluene	2.504	2.530	-1.0	108	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\032400\A23472.D Vial: 1
Acq On : 24 Mar 2000 11:33 am Operator: KJ,TAG
Sample : CCV 50ppb (V00018,V00020) Inst : GC/MS Ins
Misc : QC Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\HPCHEM\1\DATA\032400\032400W.M (RTE Integrator)
Title : 8260 CALIBRATION FOR WATER 2/24/2000
Last Update : Wed Mar 08 23:04:31 2000
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	AvgRF	CCRF	%Dev	Area%	Dev(min)
79	1,4-Dichlorobenzene	1.485	1.455	2.0	107	-0.02
80	1,2-Dichlorobenzene	1.287	1.340	-4.1	110	0.00
81	n-Butylbenzene	2.379	2.607	-9.6	117	0.00
82	1,2-Dibromo-3-chloropropane	0.230	0.277	-20.4	148	-0.02
83	1,2,4-trichlorobenzene	1.219	1.327	-8.9	122	-0.03
84	Hexachlorobutadiene	0.979	1.053	-7.6	113	-0.02
85	Naphthalene	1.790	1.971	-10.1	142	-0.02
86	1,2,3-Trichlorobenzene	1.102	1.228	-11.4	130	-0.02

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\032400\A23472.D Vial: 1
Acq On : 24 Mar 2000 11:33 am Operator: KJ,TAG
Sample : CCV 50ppb (V00018,V00020) Inst : GC/MS Ins
Misc : QC Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Mar 24 11:59 2000 Quant Results File: 032400W.RES

Quant Method : C:\HPCHEM\1\DATA\032400\032400W.M (RTE Integrator)
Title : 8260 CALIBRATION FOR WATER 2/24/2000
Last Update : Mon Mar 13 09:17:29 2000
Response via : Initial Calibration
DataAcq Meth : 032400W

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Pentafluorobenzene	7.04	168	708666	50.00	ug\L		0.00
45) Chlorobenzene-d5	13.49	117	504863	50.00	ug\L		0.00
61) 1,4-Dichlorobenzene-d4	17.72	152	345474	50.00	ug\L		0.00
System Monitoring Compounds							
32) 1,2-Dichloroethane-d4	7.48	65	298697	52.40	ug\L		0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 104.80%				
46) Toluene-d8	10.93	98	682830	58.02	ug\L		0.00
Spiked Amount 50.000	Range 87 - 104		Recovery = 116.04%#				
65) Bromofluorobenzene	15.64	95	430124	49.39	ug\L		0.00
Spiked Amount 50.000	Range 84 - 110		Recovery = 98.78%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.73	85	187392	39.96	ug\L		99
3) Chloromethane	1.90	50	118605	41.24	ug\L		100
4) Vinyl Chloride	2.00	62	147610	48.45	ug\L		99
5) Bromomethane	2.31	94	118740	60.54	ug\L		98
6) Chloroethane	2.41	64	101452	91.76	ug\L	#	82
7) Trichlorofluoromethane	2.68	101	480294	51.61	ug\L	#	100
8) Acrolein	3.14	56	23498	123.18	ug\L		93
9) Acrylonitrile	4.24	53	81216	115.52	ug\L		96
10) 1,1-Dichloroethene	3.26	96	203085	50.72	ug\L		98
11) Acetone	3.34	58	15831	57.35	ug\L		98
12) Iodomethane	3.43	142	306178	47.36	ug\L		96
13) Allylchloride	3.71	76	94239	52.48	ug\L		96
14) Carbon Disulfide	3.51	76	483779	53.97	ug\L		100
15) Acetonitrile	3.70	41	345464	526.71	ug\L		97
16) Methylene Chloride	3.87	84	365259	94.05	ug\L		98
17) trans-1,2-Dichloroethene	4.27	96	224854	51.93	ug\L		99
18) MethylTertButylEther	4.30	73	539087	54.43	ug\L		99
19) 1,1-Dichloroethane	4.94	63	385433	51.58	ug\L		100
20) Vinyl Acetate	5.08	43	208069	95.58	ug\L		96
21) 2,2-Dichloropropane	5.99	77	357259	53.39	ug\L		98
22) cis-1,2-Dichloroethene	6.01	96	243857	51.35	ug\L		98
23) 2-Butanone	6.08	72	21283	57.45	ug\L	#	7
24) Propionitrile	6.15	54	157965	587.75	ug\L	#	99
25) Methacrylonitrile	6.44	41	789533	536.84	ug\L		98
26) Bromochloromethane	6.42	128	153477	53.59	ug\L		99
27) Chloroform	6.61	83	508114	52.19	ug\L		99
28) 1,1,1-Trichloroethane	6.90	97	473545	50.44	ug\L		94

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

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\032400\A23472.D Vial: 1
Acq On : 24 Mar 2000 11:33 am Operator: KJ,TAG
Sample : CCV 50ppb (V00018,V00020) Inst : GC/MS Ins
Misc : QC Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Mar 24 11:59 2000 Quant Results File: 032400W.RES

Quant Method : C:\HPCHEM\1\DATA\032400\032400W.M (RTE Integrator)
Title : 8260 CALIBRATION FOR WATER 2/24/2000
Last Update : Mon Mar 13 09:17:29 2000
Response via : Initial Calibration
DataAcq Meth : 032400W

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
29)	Carbon Tetrachloride	7.20	117	299517	38.13	ug\L		97
30)	1,4-Dioxane	9.48	88	39049	1231.87	ug\L		97
31)	1,1-Dichloropropene	7.21	75	360417	50.95	ug\L		99
33)	Benzene	7.56	78	620155	51.20	ug\L		100
34)	Isobutyl alcohol	7.65	43	113989	1219.55	ug\L		97
35)	1,2-Dichloroethane	7.62	62	322583	53.46	ug\L		99
36)	Trichloroethene	8.77	95	329454	48.47	ug\L		98
37)	1,2-Dichloropropane	9.14	63	243661	50.10	ug\L		98
38)	Dibromomethane	9.36	93	182149	50.89	ug\L		97
39)	Methylmethacrylate	9.48	69	154471	58.79	ug\L	#	42
40)	Bromodichloromethane	9.67	83	443470	48.78	ug\L	#	97
41)	2-Nitropropane	12.30	43	105110	44.27	ug\L		98
42)	2-Chloroethyl-vinyl ether	10.26	63	51074	86.44	ug\L		95
43)	cis-1,3-Dichloropropene	10.48	75	277304	40.89	ug\L		98
44)	4-Methyl-2-Pentanone	10.80	85	37094	59.91	ug\L	#	91
47)	Toluene	11.05	92	425918	59.64	ug\L		99
48)	trans-1,3-Dichloropropene	11.49	75	250869	49.07	ug\L		99
49)	Ethylmethacrylate	11.72	69	273411	56.81	ug\L	#	98
50)	1,1,2-Trichloroethane	11.80	83	166707	51.64	ug\L		99
51)	Tetrachloroethene	12.03	164	256892	49.03	ug\L		98
52)	1,3-Dichloropropane	12.07	76	290457	50.49	ug\L		99
53)	2-Hexanone	12.30	43	105110	52.04	ug\L		94
54)	Dibromochloromethane	12.48	129	312656	47.51	ug\L		100
55)	1,2-Dibromoethane	12.64	107	271254	51.96	ug\L		100
56)	Chlorobenzene	13.54	112	481659	50.26	ug\L		96
57)	1,1,1,2-Tetrachloroethane	13.72	131	277892	52.04	ug\L		99
58)	Ethylbenzene	13.77	91	779604	52.06	ug\L		99
59)	total-Xylene	13.99	106	840525m	153.84	ug\L		
60)	Styrene	14.72	104	486409	51.98	ug\L		95
62)	Bromoform	15.03	173	275281	53.31	ug\L		99
63)	Isopropylbenzene	15.38	105	861191	49.95	ug\L		99
64)	1,4-dichloro-2-Butene	15.51	53	74233	78.13	ug\L	#	22
66)	Bromobenzene	15.87	156	296768	50.30	ug\L		95
67)	1,1,2,2-Tetrachloroethane	15.96	83	313010	53.73	ug\L		100
68)	1,2,3-Trichloropropane	15.99	75	289089	55.94	ug\L	#	100
69)	n-Propylbenzene	16.13	91	1063019	52.87	ug\L		95
70)	2-Chlorotoluene	16.24	91	596341	48.83	ug\L		100
71)	4-Chlorotoluene	16.44	91	832326	51.52	ug\L		99
72)	1,3,5-Trimethylbenzene	16.47	105	773401	50.90	ug\L		98
73)	Pentachloroethane	17.05	167	208080	55.13	ug\L		99

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

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\032400\A23472.D Vial: 1
Acq On : 24 Mar 2000 11:33 am Operator: KJ,TAG
Sample : CCV 50ppb (V00018,V00020) Inst : GC/MS Ins
Misc : QC Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Mar 24 11:59 2000 Quant Results File: 032400W.RES

Quant Method : C:\HPCHEM\1\DATA\032400\032400W.M (RTE Integrator)
Title : 8260 CALIBRATION FOR WATER 2/24/2000
Last Update : Mon Mar 13 09:17:29 2000
Response via : Initial Calibration
DataAcq Meth : 032400W

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
74)	tert-Butylbenzene	17.04	119	933098	51.25	ug\L	99
75)	1,2,4-Trimethylbenzene	17.13	105	788682	50.78	ug\L	98
76)	sec-Butylbenzene	17.45	105	1052391	50.70	ug\L	99
77)	1,3-Dichlorobenzene	17.59	146	492930	50.69	ug\L	99
78)	Isopropyltoluene	17.73	119	873958	50.51	ug\L	98
79)	1,4-Dichlorobenzene	17.76	146	502556	48.98	ug\L	98
80)	1,2-Dichlorobenzene	18.43	146	462916	52.07	ug\L	99
81)	n-Butylbenzene	18.48	91	900660	54.79	ug\L	96
82)	1,2-Dibromo-3-chloropropan	19.87	75	95865	60.33	ug\L	97
83)	1,2,4-trichlorobenzene	21.38	180	458582	54.45	ug\L	100
84)	Hexachlorobutadiene	21.75	225	363613	53.75	ug\L	100
85)	Naphthalene	21.81	128	680796	61.25	ug\L	100
86)	1,2,3-Trichlorobenzene	22.28	180	424343	55.73	ug\L	98

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

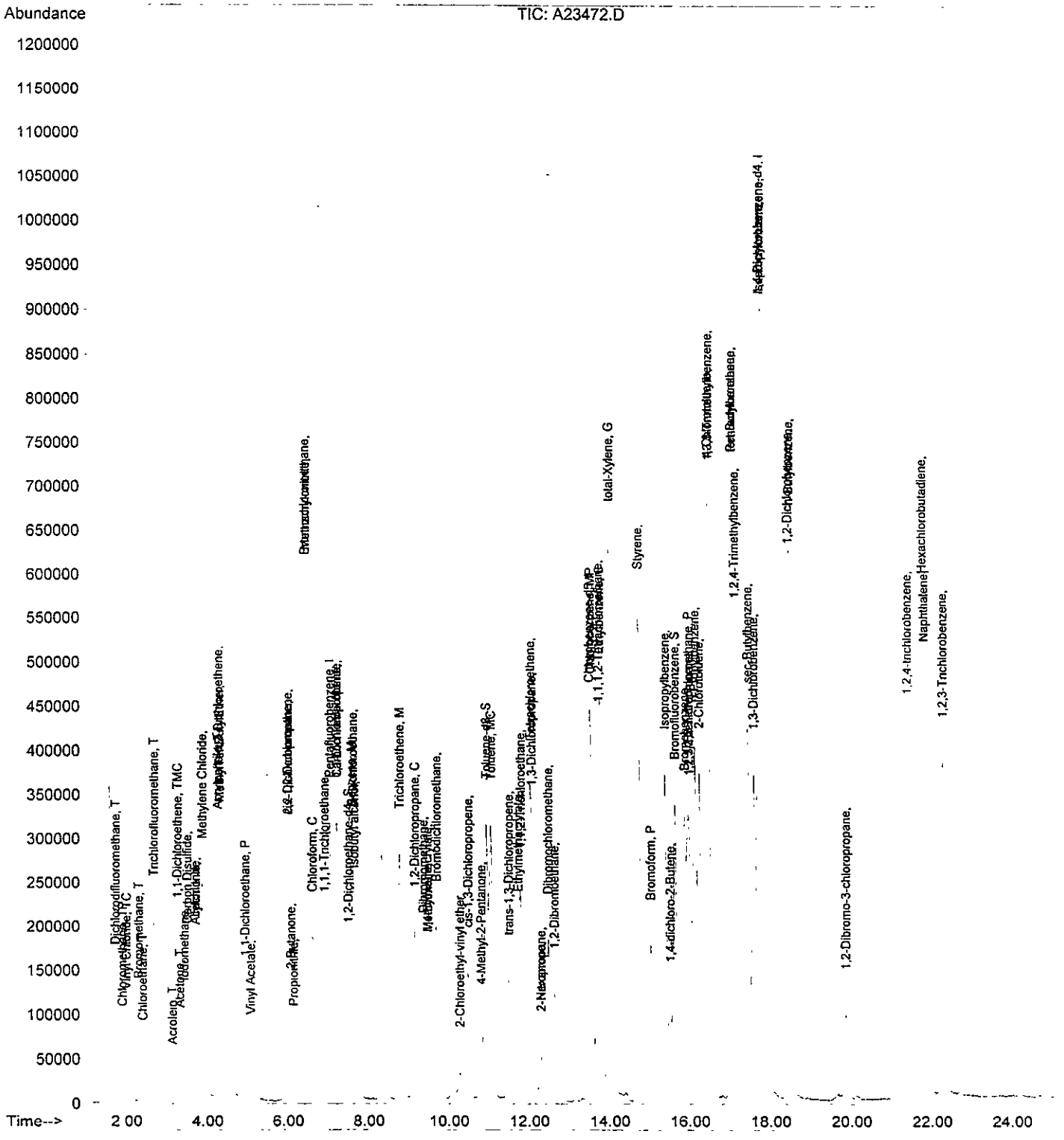
Quantitation Report

Data File : C:\HPCHEM\1\DATA\032400\A23472.D
Acq On : 24 Mar 2000 11:33 am
Sample : CCV 50ppb (V00018,V00020)
Misc : QC
MS Integration Params: rteint.p
Quant Time: Mar 24 11:59 2000

Vial: 1
Operator: KJ,TAG
Inst : GC/MS Ins
Multiplr: 1.00

Quant Results File: 032400W.RES

Method : C:\HPCHEM\1\DATA\032400\032400W.M (RTE Integrator)
Title : 8260 CALIBRATION FOR WATER 2/24/2000
Last Update : Wed Mar 08 23:04:31 2000
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\032400\A23473.D Vial: 2
Acq On : 24 Mar 2000 12:29 pm Operator: KJ,TAG
Sample : WATER BLANK 5ml DF=1 Inst : GC/MS Ins
Misc : QC Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Mar 24 12:54 2000 Quant Results File: 032400W.RES

Quant Method : C:\HPCHEM\1\DATA\032400\032400W.M (RTE Integrator)
Title : 8260 CALIBRATION FOR WATER 2/24/2000
Last Update : Mon Mar 13 09:17:29 2000
Response via : Initial Calibration
DataAcq Meth : 032400W

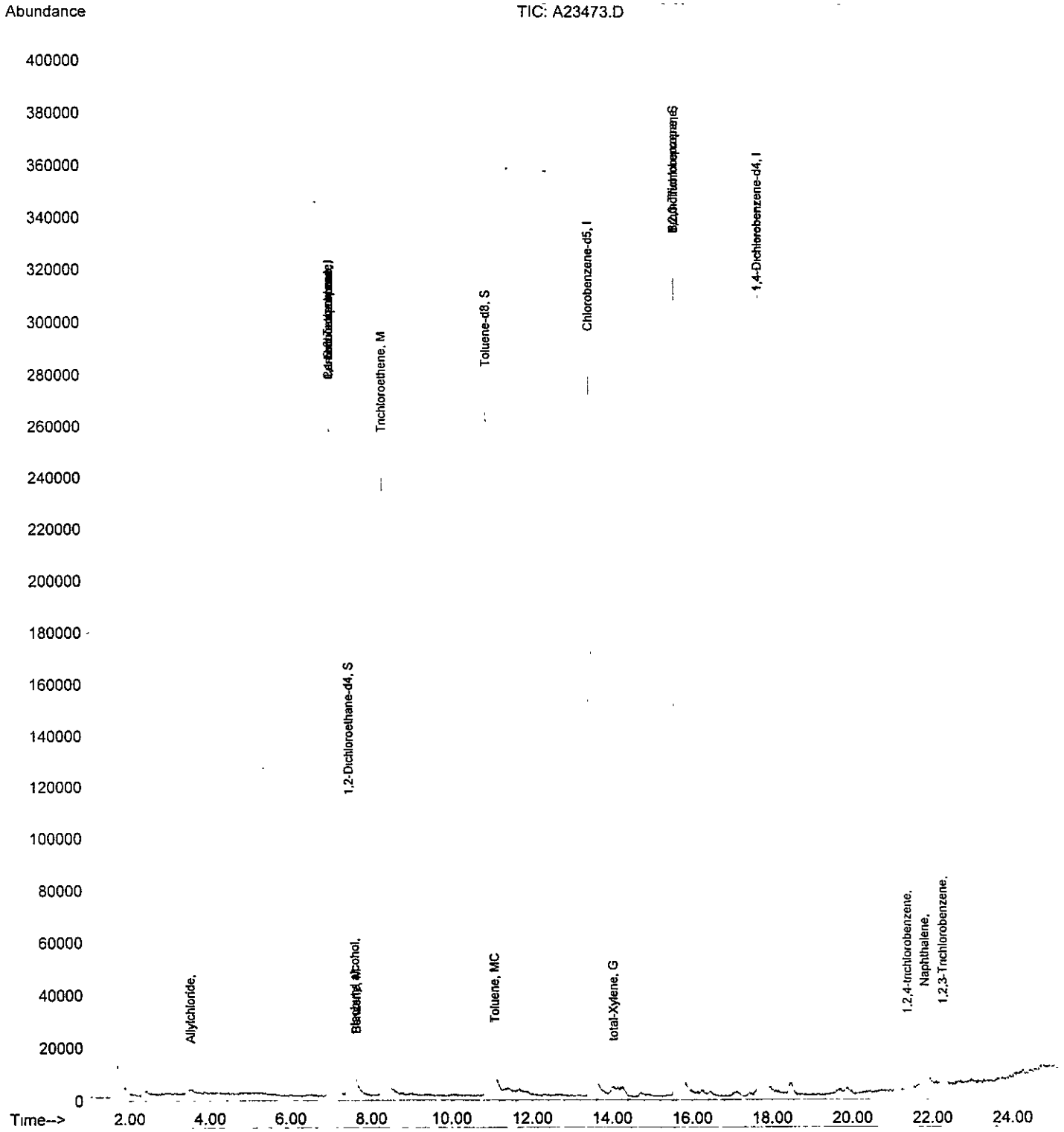
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.02	168	628465	50.00	ug\L	-0.01
45) Chlorobenzene-d5	13.50	117	517907	50.00	ug\L	0.00
61) 1,4-Dichlorobenzene-d4	17.73	152	340638	50.00	ug\L	0.00
System Monitoring Compounds						
32) 1,2-Dichloroethane-d4	7.48	65	249852	49.43	ug\L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 98.86%			
46) Toluene-d8	10.94	98	592757	49.10	ug\L	0.00
Spiked Amount 50.000	Range 87 - 104		Recovery = 98.20%			
65) Bromofluorobenzene	15.63	95	427428	49.78	ug\L	0.00
Spiked Amount 50.000	Range 84 - 110		Recovery = 99.56%			
Target Compounds						Qvalue
5) Bromomethane	2.31	94	1528	-6.12	ug\L #	1
6) Chloroethane	2.42	64	744	-22.98	ug\L #	40
11) Acetone	3.32	58	70	-13.96	ug\L #	1
13) Allylchloride	3.51	76	2444	1.53	ug\L #	1
29) Carbon Tetrachloride	7.03	117	64944	9.32	ug\L #	7
30) 1,4-Dioxane	9.48	88	61	-26.74	ug\L #	20
31) 1,1-Dichloropropene	7.03	75	52310	8.34	ug\L #	49
33) Benzene	7.63	78	16657	1.55	ug\L	100
34) Isobutyl alcohol	7.62	43	218	64.80	ug\L #	44
36) Trichloroethene	8.33	95	18749	3.11	ug\L #	3
47) Toluene	11.10	92	11094	1.51	ug\L	95
59) total-Xylene	14.05	106	13200m	2.36	ug\L #	
68) 1,2,3-Trichloropropane	15.63	75	224984	44.15	ug\L #	100
83) 1,2,4-trichlorobenzene	21.39	180	14016	1.69	ug\L	100
85) Naphthalene	21.83	128	52810	2.26	ug\L	100
86) 1,2,3-Trichlorobenzene	22.28	180	16125	2.15	ug\L	97

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

Quantitation Report

Data File : C:\HPCHEM\1\DATA\032400\A23473.D Vial: 2
Acq On : 24 Mar 2000 12:29 pm Operator: KJ,TAG
Sample : WATER BLANK 5ml DF=1 Inst : GC/MS Ins
Misc : QC Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Mar 24 12:54 2000 Quant Results File: 032400W.RES

Method : C:\HPCHEM\1\DATA\032400\032400W.M (RTE Integrator)
Title : 8260 CALIBRATION FOR WATER 2/24/2000
Last Update : Wed Mar 08 23:04:31 2000
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\032400\A23474.D Vial: 2
Acq On : 24 Mar 2000 1:02 pm Operator: KJ,TAG
Sample : WATER BLANK 5ml DF=1 Inst : GC/MS Ins
Misc : QC Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Mar 24 13:27 2000 Quant Results File: 032400W.RES

Quant Method : C:\HPCHEM\1\DATA\032400\032400W.M (RTE Integrator)
Title : 8260 CALIBRATION FOR WATER 2/24/2000
Last Update : Mon Mar 13 09:17:29 2000
Response via : Initial Calibration
DataAcq Meth : 032400W

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.01	168	623394	50.00	ug\L	-0.03
45) Chlorobenzene-d5	13.48	117	535701	50.00	ug\L	0.00
61) 1,4-Dichlorobenzene-d4	17.72	152	348567	50.00	ug\L	0.00
System Monitoring Compounds						
32) 1,2-Dichloroethane-d4	7.46	65	249962	49.85	ug\L	-0.02
Spiked Amount 50.000	Range 80 - 120		Recovery = 99.70%			
46) Toluene-d8	10.92	98	601481	48.17	ug\L	0.00
Spiked Amount 50.000	Range 87 - 104		Recovery = 96.34%			
65) Bromofluorobenzene	15.62	95	434739	49.48	ug\L	0.00
Spiked Amount 50.000	Range 84 - 110		Recovery = 98.96%			
Target Compounds						Qvalue
5) Bromomethane	2.32	94	2081	~~-5.75 ug\L~~		94
6) Chloroethane	2.47	64	60	~~-23.86 ug\L~~	#	40
11) Acetone	3.33	58	71	~~-13.95 ug\L~~	#	1
12) Iodomethane	3.44	142	7837	~~1.38 ug\L~~	#	41
29) Carbon Tetrachloride	7.02	117	65459	~~9.47 ug\L~~	#	5
31) 1,1-Dichloropropene	7.00	75	53567	~~8.61 ug\L~~	#	46
34) Isobutyl alcohol	7.65	43	60	~~63.00 ug\L~~	#	51
36) Trichloroethene	8.31	95	16873	~~2.82 ug\L~~	#	3
59) total-Xylene	14.28	106	7210m	~~1.24 ug\L~~	#	
68) 1,2,3-Trichloropropane	15.62	75	226710	~~43.48 ug\L~~	#	100
85) Naphthalene	21.81	128	12080	~~-1.65 ug\L~~		100

3/24/00

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

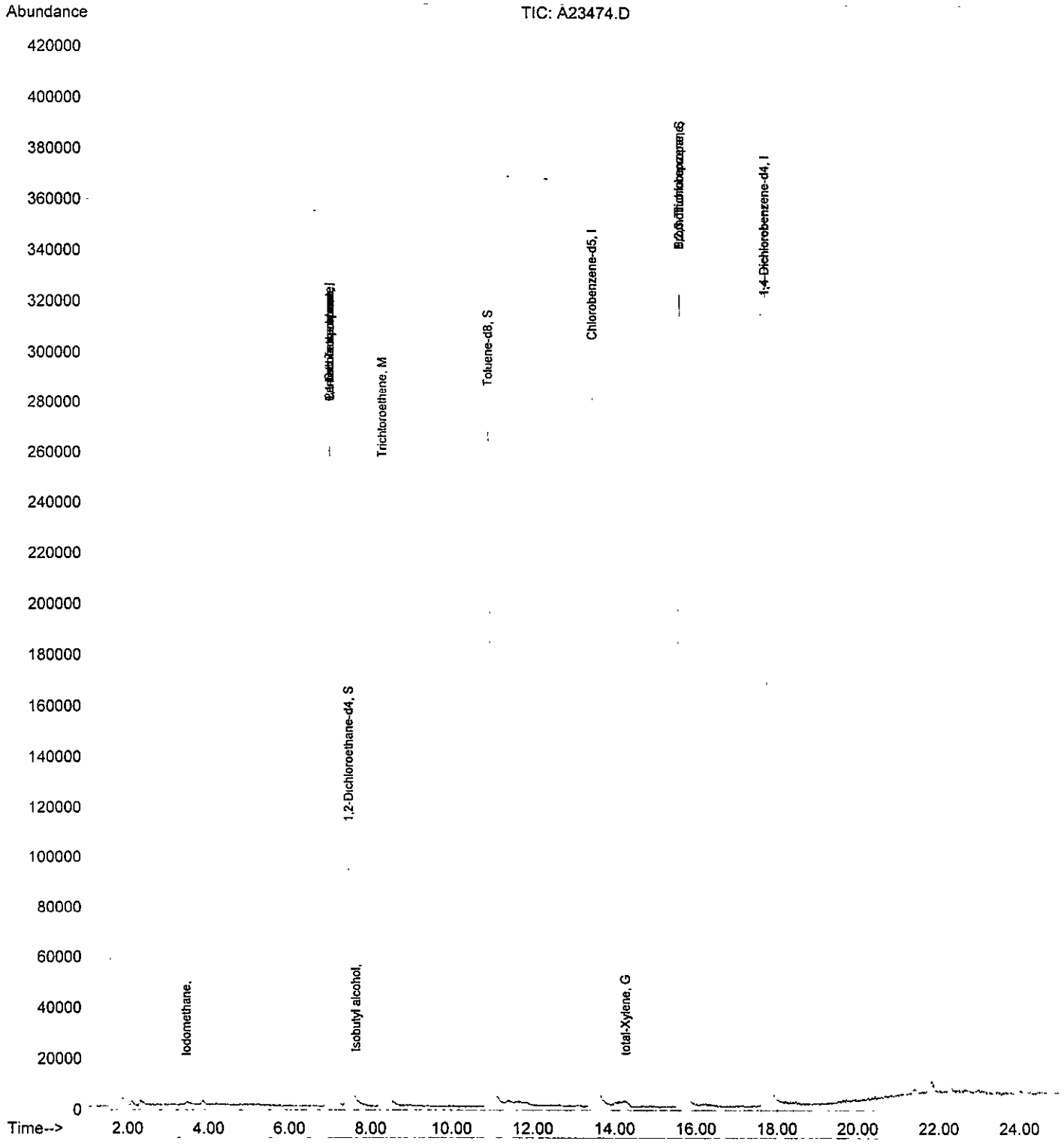
Quantitation Report

Data File : C:\HPCHEM\1\DATA\032400\A23474.D
Acq On : 24 Mar 2000 1:02 pm
Sample : WATER BLANK 5ml DF=1
Misc : QC
MS Integration Params: rteint.p
Quant Time: Mar 24 13:27 2000

Vial: 2
Operator: KJ,TAG
Inst : GC/MS Ins
Multiplr: 1.00

Quant Results File: 032400W.RES

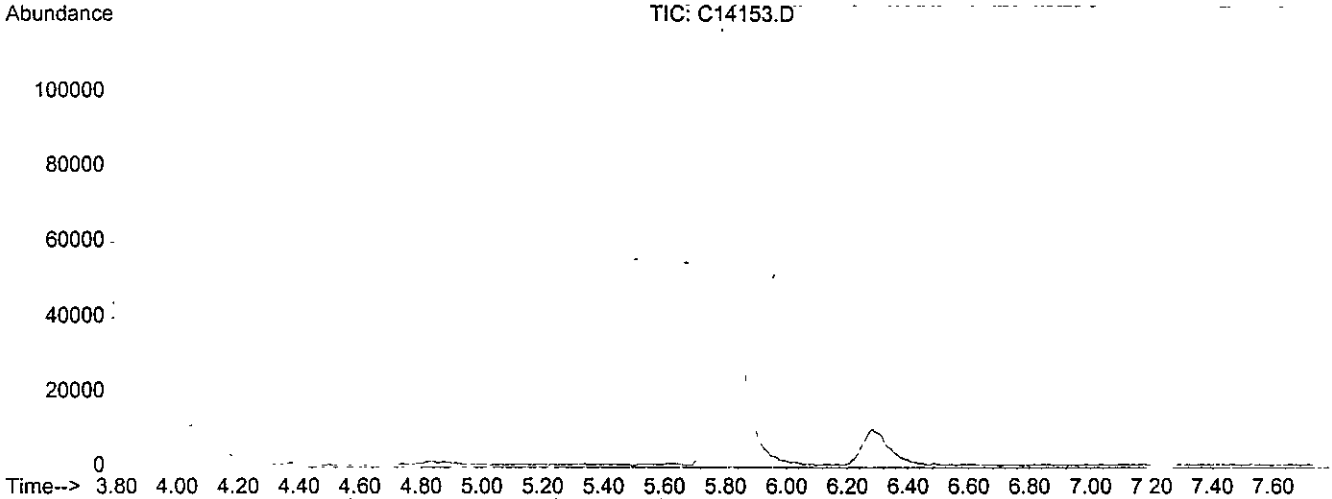
Method : C:\HPCHEM\1\DATA\032400\032400W.M (RTE Integrator)
Title : 8260 CALIBRATION FOR WATER 2/24/2000
Last Update : Wed Mar 08 23:04:31 2000
Response via : Initial Calibration

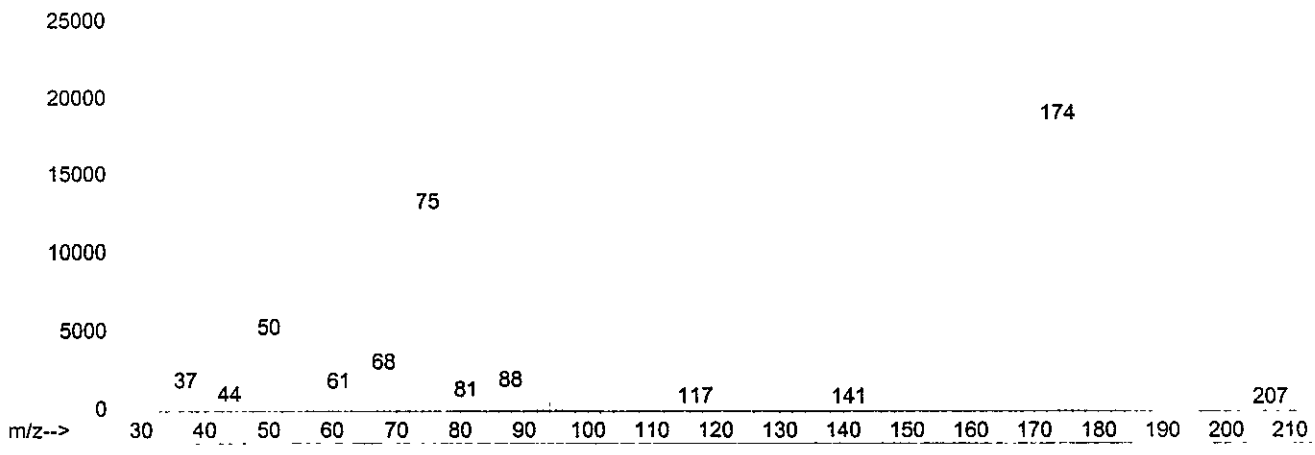


BFB

Data File : C:\HPCHEM\1\DATA\032700\C14153.D
Acq On : 27 Mar 2000 10:29 am
Sample : BFB 50ng V99050
Misc : QC
MS Integration Params: rteint.p
Method : c:\hpchem\1\methods\BFB01.M (RTE Integrator)
Title :

Vial: 1
Operator: KJ/TAG
Inst : VOC MS #3
Multiplr: 1.00





AutoFind: Scans 463, 464, 465; Background Corrected with Scan 452

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	16.9	4513	PASS
75	95	30	60	46.9	12545	PASS
95	95	100	100	100.0	26765	PASS
96	95	5	9	6.6	1771	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	68.7	18381	PASS
175	174	5	9	7.2	1327	PASS
176	174	95	101	97.5	17920	PASS
177	176	5	9	6.2	1108	PASS

C14153.D BFB01.M Mon Mar 27 10:42:35 2000 RPT

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\032700\C14154.D Vial: 1
Acq On : 27 Mar 2000 10:47 am Operator: KJ/TAG
Sample : CCV 50ppb (V00019,V00020) Inst : VOC MS #3
Misc : QC Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\HPCHEM\1\DATA\032700\032700W.M (RTE Integrator)
Title : 8260 CALIBRATION FOR WATER 3/12/2000
Last Update : Mon Mar 13 10:07:55 2000
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Pentafluorobenzene	1.000	1.000	0.0	114	0.00
2	T	Dichlorodifluoromethane	0.410	0.364	11.2	102	0.00
3	TP	Chloromethane	0.230	0.210	8.7	107	0.01
4	TC	Vinyl Chloride	0.325	0.298	8.3	109	0.01
5	T	Bromomethane	0.275	0.251	8.7	99	0.00
6	T	Chloroethane	0.171	0.148	13.5	105	0.00
7	T	Trichlorofluoromethane	0.602	0.629	-4.5	113	0.01
8	T	Acrolein	0.017	0.015	11.8	107	0.00
9	T	Acrylonitrile	0.048	0.050	-4.2	120	0.00
10	TMC	1,1-Dichloroethene	0.355	0.335	5.6	109	0.00
11	T	Acetone	0.029	0.022	24.1#	76	-0.02
12		Iodomethane	0.591	0.651	-10.2	114	0.00
13		Allylchloride	0.188	0.177	5.9	106	0.00
14		Carbon Disulfide	0.933	0.792	15.1	96	0.00
15		Acetonitrile	0.051	0.051	0.0	114	0.00
16		Methylene Chloride	0.359	0.365	-1.7	115	0.00
17		trans-1,2-Dichloroethene	0.395	0.369	6.6	107	0.00
18		MethylTertButylEther	0.470	0.396	15.7	84	0.00
19	P	1,1-Dichloroethane	0.627	0.570	9.1	108	0.00
20		Vinyl Acetate	0.180	0.240	-33.3#	157#	0.00
21		2,2-Dichloropropane	0.377	0.309	18.0	86	0.00
22		cis-1,2-Dichloroethene	0.414	0.382	7.7	107	-0.02
23		2-Butanone	0.025	0.021	16.0	86	0.01
24		Propionitrile	0.017	0.018	-5.9	123	0.00
25		Methacrylonitrile	0.094	0.093	1.1	118	0.00
26		Bromochloromethane	0.225	0.222	1.3	114	0.00
27	C	Chloroform	0.733	0.688	6.1	108	0.00
28		1,1,1-Trichloroethane	0.602	0.566	6.0	106	-0.03
29		Carbon Tetrachloride	0.535	0.472	11.8	99	-0.02
30		1,4-Dioxane	0.002	0.002	0.0	124	0.00
31		1,1-Dichloropropene	0.620	0.614	1.0	107	-0.02
32	S	1,2-Dichloroethane-d4	0.359	0.346	3.6	115	0.00
33	M	Benzene	1.109	1.016	8.4	108	0.00
34		Isobutyl alcohol	0.006	0.006	0.0	133	0.00
35		1,2-Dichloroethane	0.385	0.370	3.9	112	0.00
36	M	Trichloroethene	0.496	0.446	10.1	106	-0.02
37	C	1,2-Dichloropropane	0.415	0.389	6.3	114	0.00
38		Dibromomethane	0.298	0.286	4.0	112	0.00
39		Methylmethacrylate	0.174	0.178	-2.3	126	0.00
40		Bromodichloromethane	0.686	0.641	6.6	106	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\032700\C14154.D Vial: 1
Acq On : 27 Mar 2000 10:47 am Operator: KJ/TAG
Sample : CCV 50ppb (V00019,V00020) Inst : VOC MS #3
Misc : QC Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\HPCHEM\1\DATA\032700\032700W.M (RTE Integrator)
Title : 8260 CALIBRATION FOR WATER 3/12/2000
Last Update : Mon Mar 13 10:07:55 2000
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
41		2-Nitropropane	0.049	0.034	30.6#	93	0.00
42		2-Chloroethyl-vinyl ether	0.008	0.004	50.0#	33#	0.01
43		cis-1,3-Dichloropropene	0.536	0.501	6.5	108	0.00
44		4-Methyl-2-Pentanone	0.034	0.036	-5.9	122	0.00
45	I	Chlorobenzene-d5	1.000	1.000	0.0	106	0.03
46	S	Toluene-d8	1.239	1.219	1.6	111	0.00
47	MC	Toluene	0.785	0.795	-1.3	111	0.00
48		trans-1,3-Dichloropropene	0.409	0.427	-4.4	110	0.00
49		Ethylmethacrylate	0.380	0.429	-12.9	125	0.00
50		1,1,2-Trichloroethane	0.306	0.329	-7.5	117	0.00
51		Tetrachloroethene	0.415	0.443	-6.7	112	0.00
52		1,3-Dichloropropane	0.550	0.569	-3.5	113	0.00
53		2-Hexanone	0.130	0.128	1.5	100	0.01
54		Dibromochloromethane	0.508	0.500	1.6	103	0.01
55		1,2-Dibromoethane	0.432	0.448	-3.7	111	0.02
56	MP	Chlorobenzene	0.961	0.978	-1.8	108	0.03
57		1,1,1,2-Tetrachloroethane	0.429	0.448	-4.4	108	0.02
58	C	Ethylbenzene	1.485	1.530	-3.0	110	0.03
59	G	total-Xylene	0.875	0.905	-3.4	109	0.03
60		Styrene	0.932	0.990	-6.2	110	0.02
61	I	1,2-Dichlorobenzene-d4	1.000	1.000	0.0	104	0.02
62	P	Bromoform	0.529	0.562	-6.2	112	0.03
63		Isopropylbenzene	2.816	2.890	-2.6	111	0.02
64		1,4-dichloro-2-Butene	0.140	0.154	-10.0	115	0.03
65	S	Bromofluorobenzene	1.252	1.217	2.8	112	0.02
66		Bromobenzene	0.768	0.803	-4.6	113	0.02
67	P	1,1,2,2-Tetrachloroethane	0.842	0.910	-8.1	119	0.01
68		1,2,3-Trichloropropane	0.725	0.808	-11.4	118	0.01
69		n-Propylbenzene	3.272	3.425	-4.7	116	0.02
70		2-Chlorotoluene	1.917	1.905	0.6	105	0.02
71		4-Chlorotoluene	2.548	2.571	-0.9	108	0.01
72		1,3,5-Trimethylbenzene	2.255	2.298	-1.9	111	0.01
73		Pentachloroethane	0.487	0.497	-2.1	104	0.01
74		tert-Butylbenzene	2.874	2.936	-2.2	108	0.00
75		1,2,4-Trimethylbenzene	2.261	2.305	-1.9	110	0.01
76		sec-Butylbenzene	3.539	3.584	-1.3	108	0.01
77		1,3-Dichlorobenzene	1.343	1.397	-4.0	113	0.02
78		Isopropyltoluene	2.731	2.794	-2.3	110	0.01

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\032700\C14154.D Vial: 1
Acq On : 27 Mar 2000 10:47 am Operator: KJ/TAG
Sample : CCV 50ppb (V00019,V00020) Inst : VOC MS #3
Misc : QC Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\HPCHEM\1\DATA\032700\032700W.M (RTE Integrator)
Title : 8260 CALIBRATION FOR WATER 3/12/2000
Last Update : Mon Mar 13 10:07:55 2000
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
79		1,4-Dichlorobenzene	1.616	1.630	-0.9	107	0.01
80		1,2-Dichlorobenzene	1.290	1.338	-3.7	111	0.01
81		n-Butylbenzene	2.755	2.817	-2.3	109	0.01
82		1,2-Dibromo-3-chloropropane	0.149	0.158	-6.0	115	0.02
83		1,2,4-trichlorobenzene	0.969	1.030	-6.3	117	0.00
84		Hexachlorobutadiene	0.658	0.716	-8.8	119	0.01
85	T	Naphthalene	1.465	1.430	2.4	118	0.00
86		1,2,3-Trichlorobenzene	0.823	0.872	-6.0	120	0.00

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\032700\C14154.D Vial: 1
Acq On : 27 Mar 2000 10:47 am Operator: KJ/TAG
Sample : CCV 50ppb (V00019,V00020) Inst : VOC MS #3
Misc : QC Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Mar 27 11:11 2000 Quant Results File: 032700W.RES

Quant Method : C:\HPCHEM\1\DATA\032700\032700W.M (RTE Integrator)
Title : 8260 CALIBRATION FOR WATER 3/12/2000
Last Update : Mon Mar 13 10:07:55 2000
Response via : Initial Calibration
DataAcq Meth : 032700W

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Pentafluorobenzene	6.20	168	832824	50.00	ug\L		0.00
45) Chlorobenzene-d5	12.62	117	755957	50.00	ug\L		0.03
61) 1,2-Dichlorobenzene-d4	16.76	152	446953	50.00	ug\L		0.02
System Monitoring Compounds							
32) 1,2-Dichloroethane-d4	6.69	65	287862	48.12	ug\L		0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 96.24%				
46) Toluene-d8	10.04	98	921151	49.17	ug\L		0.00
Spiked Amount 50.000	Range 87 - 104		Recovery = 98.34%				
65) Bromofluorobenzene	14.72	95	543802	48.60	ug\L		0.02
Spiked Amount 50.000	Range 84 - 110		Recovery = 97.20%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.49	85	303406	44.40	ug\L		98
3) Chloromethane	1.70	50	175095	45.70	ug\L		98
4) Vinyl Chloride	1.73	62	248511	45.91	ug\L		99
5) Bromomethane	1.98	94	208913	45.66	ug\L		98
6) Chloroethane	2.04	64	123221	43.28	ug\L		97
7) Trichlorofluoromethane	2.26	101	523813	52.26	ug\L	#	100
8) Acrolein	2.69	56	25174	89.40	ug\L		99
9) Acrylonitrile	3.65	53	82457	102.88	ug\L		97
10) 1,1-Dichloroethene	2.75	96	278647	47.06	ug\L		99
11) Acetone	2.85	58	18322	41.50	ug\L		94
12) Iodomethane	2.93	142	541865	53.38	ug\L		98
13) Allylchloride	3.15	76	147612	47.10	ug\L		96
14) Carbon Disulfide	2.98	76	659410	42.45	ug\L		100
15) Acetonitrile	3.16	41	421325	492.77	ug\L	#	97
16) Methylene Chloride	3.30	84	304171	50.87	ug\L		99
17) trans-1,2-Dichloroethene	3.61	96	307263	46.71	ug\L		97
18) MethylTertButylEther	3.62	73	330023	39.38	ug\L		99
19) 1,1-Dichloroethane	4.20	63	475104	45.49	ug\L		100
20) Vinyl Acetate	4.31	43	200030	66.86	ug\L		99
21) 2,2-Dichloropropane	5.14	77	257327	36.21	ug\L		100
22) cis-1,2-Dichloroethene	5.19	96	318447	46.22	ug\L		95
23) 2-Butanone	5.32	72	17563	41.11	ug\L	#	1
24) Propionitrile	5.47	54	148191	523.86	ug\L	#	83
25) Methacrylonitrile	5.68	41	774605	496.24	ug\L		99
26) Bromochloromethane	5.64	128	184863	49.26	ug\L		96
27) Chloroform	5.82	83	572625	46.92	ug\L		100
28) 1,1,1-Trichloroethane	6.03	97	470969	46.98	ug\L		95

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

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\032700\C14154.D Vial: 1
Acq On : 27 Mar 2000 10:47 am Operator: KJ/TAG
Sample : CCV 50ppb (V00019,V00020) Inst : VOC MS #3
Misc : QC Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Mar 27 11:11 2000 Quant Results File: 032700W.RES

Quant Method : C:\HPCHEM\1\DATA\032700\032700W.M (RTE Integrator)
Title : 8260 CALIBRATION FOR WATER 3/12/2000
Last Update : Mon Mar 13 10:07:55 2000
Response via : Initial Calibration
DataAcq Meth : 032700W

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
29)	Carbon Tetrachloride	6.30	119	393480	44.12	ug\L	#	1
30)	1,4-Dioxane	8.66	88	40359	986.99	ug\L	#	95
31)	1,1-Dichloropropene	6.33	75	510958	49.48	ug\L		96
33)	Benzene	6.71	78	846033	45.81	ug\L		100
34)	Isobutyl alcohol	6.94	43	105688	1039.15	ug\L		97
35)	1,2-Dichloroethane	6.82	62	307874	48.06	ug\L		98
36)	Trichloroethene	7.89	95	371650	45.03	ug\L		97
37)	1,2-Dichloropropane	8.31	63	324230	46.93	ug\L		100
38)	Dibromomethane	8.55	93	238539	48.11	ug\L		97
39)	Methylmethacrylate	8.63	69	148449	51.35	ug\L		98
40)	Bromodichloromethane	8.88	83	534119	46.71	ug\L		99
41)	2-Nitropropane	9.33	43	28396	34.42	ug\L		87
42)	2-Chloroethyl-vinyl ether	9.41	63	3262	32.36	ug\L	#	32
43)	cis-1,3-Dichloropropene	9.65	75	417650	43.66	ug\L		100
44)	4-Methyl-2-Pentanone	10.00	85	30075	48.79	ug\L	#	98
47)	Toluene	10.17	92	600771	50.59	ug\L		99
48)	trans-1,3-Dichloropropene	10.68	75	322559	47.90	ug\L		99
49)	Ethylmethacrylate	10.88	69	324592	51.80	ug\L	#	93
50)	1,1,2-Trichloroethane	10.99	83	248376	53.65	ug\L		99
51)	Tetrachloroethene	11.09	164	335143	53.37	ug\L		98
52)	1,3-Dichloropropane	11.24	76	430290	51.78	ug\L		100
53)	2-Hexanone	11.48	43	96467	49.11	ug\L		98
54)	Dibromochloromethane	11.66	129	377858	49.23	ug\L		99
55)	1,2-Dibromoethane	11.80	107	339046	51.94	ug\L		100
56)	Chlorobenzene	12.67	112	739650	50.89	ug\L		100
57)	1,1,1,2-Tetrachloroethane	12.85	131	338658	52.21	ug\L		99
58)	Ethylbenzene	12.88	91	1156404	51.52	ug\L		100
59)	total-Xylene	13.10	106	1368018m	103.37	ug\L		
60)	Styrene	13.83	104	748504	53.10	ug\L		100
62)	Bromoform	14.17	173	251046	53.09	ug\L		99
63)	Isopropylbenzene	14.44	105	1291693	51.31	ug\L		99
64)	1,4-dichloro-2-Butene	14.66	53	68662	49.14	ug\L	#	97
66)	Bromobenzene	14.94	156	359031	52.33	ug\L		95
67)	1,1,2,2-Tetrachloroethane	15.10	83	406566	54.03	ug\L		100
68)	1,2,3-Trichloropropane	15.13	75	361052	50.89	ug\L	#	27
69)	n-Propylbenzene	15.18	91	1531017	52.34	ug\L		99
70)	2-Chlorotoluene	15.30	91	851625	49.71	ug\L		98
71)	4-Chlorotoluene	15.49	91	1149169	50.45	ug\L		100
72)	1,3,5-Trimethylbenzene	15.50	105	1027123	50.96	ug\L		99
73)	Pentachloroethane	16.10	167	222223	47.48	ug\L		98

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

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\032700\C14154.D Vial: 1
Acq On : 27 Mar 2000 10:47 am Operator: KJ/TAG
Sample : CCV 50ppb (V00019,V00020) Inst : VOC MS #3
Misc : QC Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Mar 27 11:11 2000 Quant Results File: 032700W.RES

Quant Method : C:\HPCHEM\1\DATA\032700\032700W.M (RTE Integrator)
Title : 8260 CALIBRATION FOR WATER 3/12/2000
Last Update : Mon Mar 13 10:07:55 2000
Response via : Initial Calibration
DataAcq Meth : 032700W

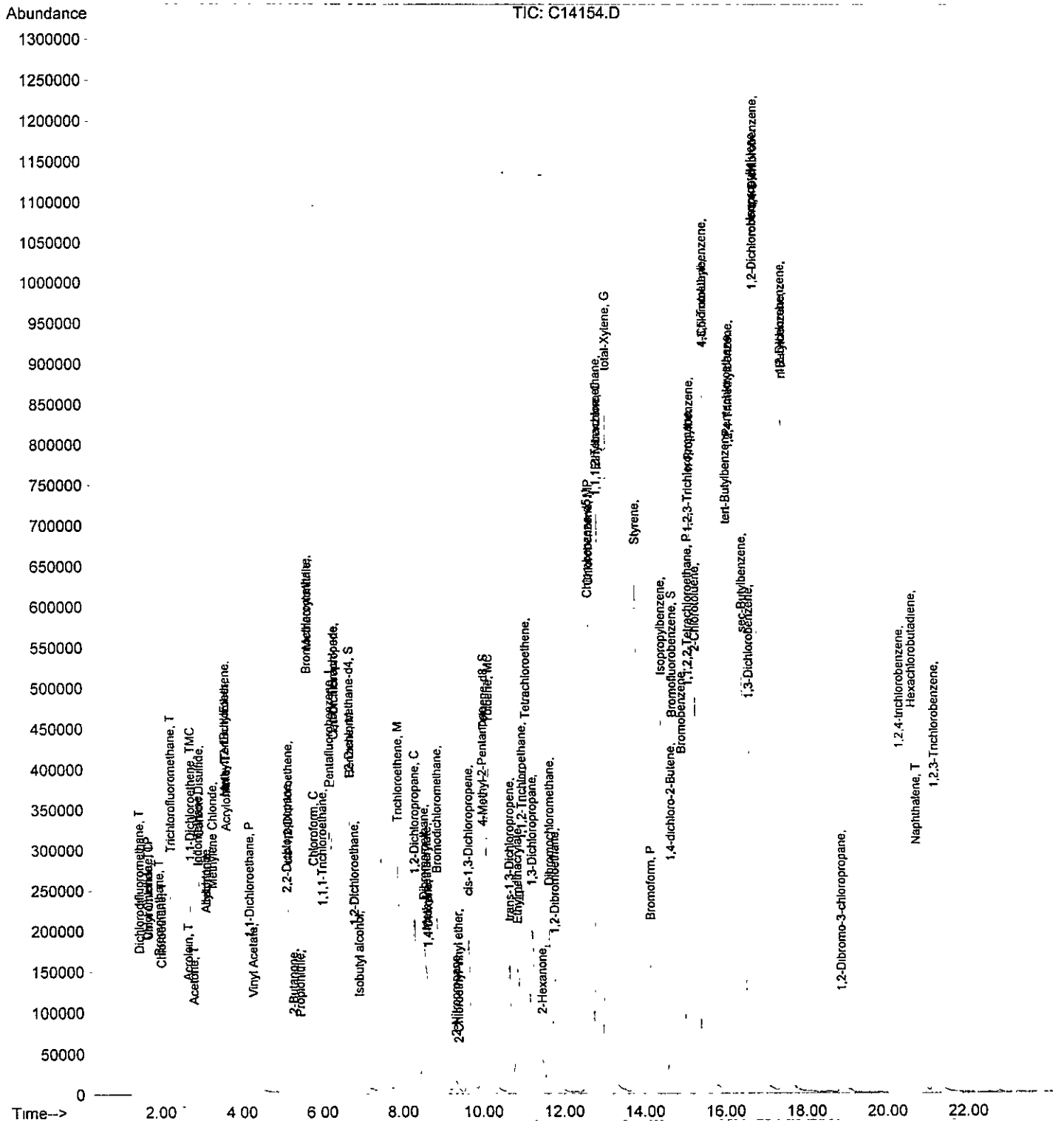
Compound	R.T.	QIon	Response	Conc Unit	Qvalue
74) tert-Butylbenzene	16.06	119	1312063	51.07 ug\L	99
75) 1,2,4-Trimethylbenzene	16.15	105	1030446	50.97 ug\L	100
76) sec-Butylbenzene	16.44	105	1602084	50.65 ug\L	99
77) 1,3-Dichlorobenzene	16.63	146	624179	51.97 ug\L	98
78) Isopropyltoluene	16.73	119	1248979	51.17 ug\L	100
79) 1,4-Dichlorobenzene	16.78	146	728502	50.43 ug\L	98
80) 1,2-Dichlorobenzene	17.44	146	598206	51.87 ug\L	100
81) n-Butylbenzene	17.47	91	1259162	51.12 ug\L	99
82) 1,2-Dibromo-3-chloropropan	18.90	75	70396	52.77 ug\L	99
83) 1,2,4-trichlorobenzene	20.33	180	460367	53.14 ug\L	100
84) Hexachlorobutadiene	20.64	225	319819	54.40 ug\L	100
85) Naphthalene	20.75	128	639144	48.80 ug\L	100
86) 1,2,3-Trichlorobenzene	21.19	180	389660	52.97 ug\L	100

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

Quantitation Report

Data File : C:\HPCHEM\1\DATA\032700\C14154.D Vial: 1
Acq On : 27 Mar 2000 10:47 am Operator: KJ/TAG
Sample : CCV 50ppb (V00019,V00020) Inst : VOC MS #3
Misc : QC Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Mar 27 11:11 2000 Quant Results File: 032700W.RES

Method : C:\HPCHEM\1\DATA\032700\032700W.M (RTE Integrator)
Title : 8260 CALIBRATION FOR WATER 3/12/2000
Last Update : Mon Mar 13 10:07:55 2000
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\032700\C14155.D Vial: 2
Acq On : 27 Mar 2000 11:20 am Operator: KJ/TAG
Sample : WATER BLANK 5mL DF=1 Inst : VOC MS #3
Misc : QC Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Mar 27 11:45 2000 Quant Results File: 032700W.RES

Quant Method : C:\HPCHEM\1\DATA\032700\032700W.M (RTE Integrator)
Title : 8260 CALIBRATION FOR WATER 3/12/2000
Last Update : Mon Mar 13 10:07:55 2000
Response via : Initial Calibration
DataAcq Meth : 032700W

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Pentafluorobenzene	6.19	168	845579 ✓	50.00 ug\L	0.00
45) Chlorobenzene-d5	12.60	117	783071 ✓	50.00 ug\L	0.00
61) 1,2-Dichlorobenzene-d4	16.74	152	430205 ✓	50.00 ug\L	0.00
System Monitoring Compounds					
32) 1,2-Dichloroethane-d4	6.69	65	269014	44.29 ug\L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 88.58% ✓		
46) Toluene-d8	10.05	98	935740	48.22 ug\L	0.00
Spiked Amount 50.000	Range 87 - 104		Recovery = 96.44% ✓		
65) Bromofluorobenzene	14.70	95	533372	49.53 ug\L	0.00
Spiked Amount 50.000	Range 84 - 110		Recovery = 99.06% ✓		
Target Compounds					Qvalue
21) 2,2-Dichloropropane	5.14	77	166	~~2.53 ug\L~~ #	51
30) 1,4-Dioxane	8.66	88	64	~~54.83 ug\L~~ #	24
31) 1,1-Dichloropropene	6.19	75	67682	~~6.46 ug\L~~ #	51
36) Trichloroethene	7.49	95	23449	~~2.80 ug\L~~ #	5
49) Ethylmethacrylate	10.86	69	133	~~5.39 ug\L~~ #	76
68) 1,2,3-Trichloropropane	14.70	75	242107	~~36.73 ug\L~~ #	29
85) Naphthalene	20.74	128	27469	~~2.18 ug\L~~	100
86) 1,2,3-Trichlorobenzene	21.18	180	7692	~~1.09 ug\L~~	92

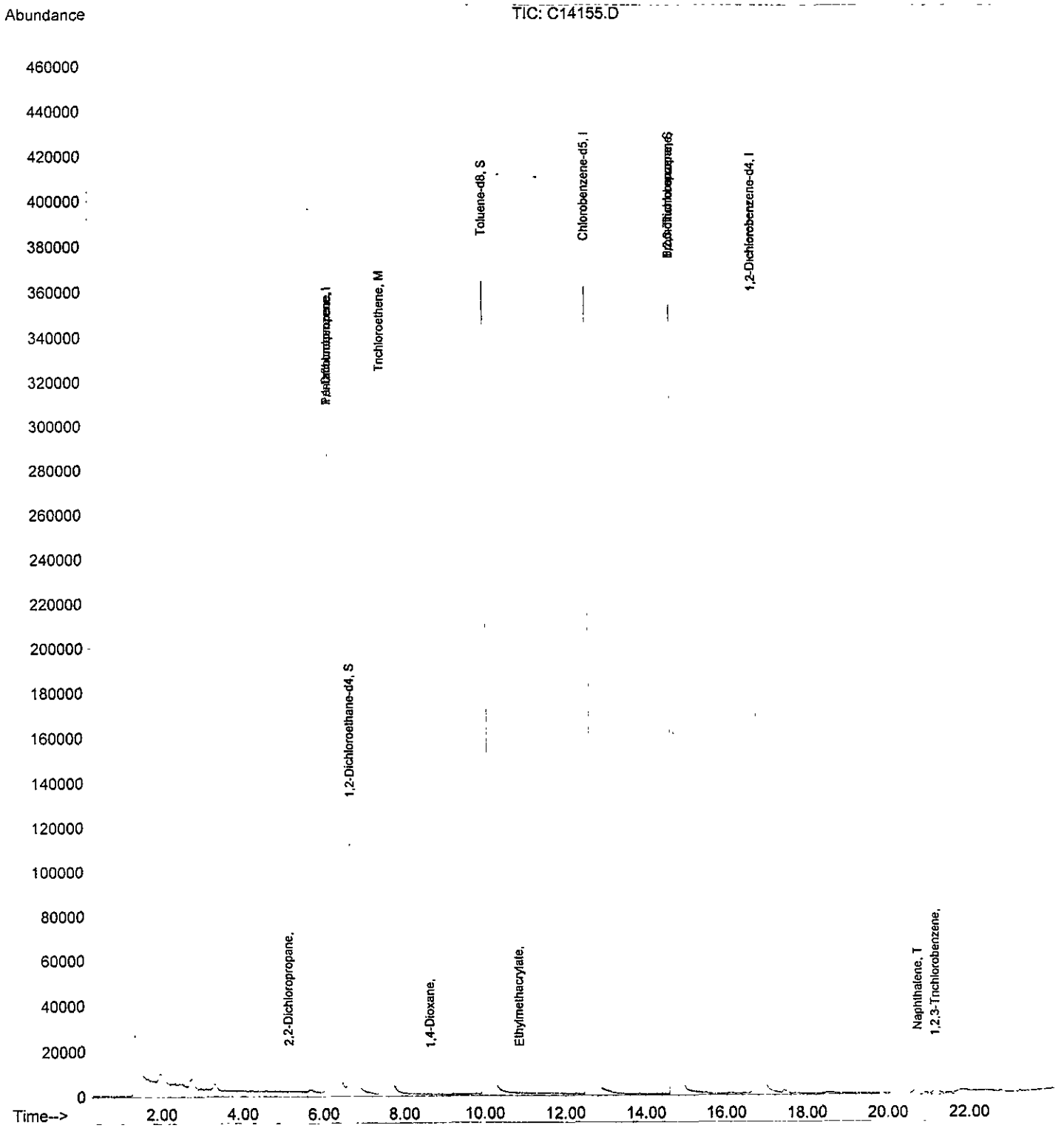
KJ 3/27/00

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

Quantitation Report

Data File : C:\HPCHEM\1\DATA\032700\C14155.D Vial: 2
Acq On : 27 Mar 2000 11:20 am Operator: KJ/TAG
Sample : WATER BLANK 5mL DF=1 Inst : VOC MS #3
Misc : QC Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Mar 27 11:45 2000 Quant Results File: 032700W.RES

Method : C:\HPCHEM\1\DATA\032700\032700W.M (RTE Integrator)
Title : 8260 CALIBRATION FOR WATER 3/12/2000
Last Update : Mon Mar 13 10:07:55 2000
Response via : Initial Calibration



VOA GC/MS QC CHECKLIST
SW-846-8260B

BATCH #: A032100W	METHOD: 8260B
MATRIX: WATER	

Are BS/BSD/MS/MSD recoveries within recovery ranges?	(Y)	N	NA
Is/Are blank result(s) less than 1/2 RDL for analytes of interest?	(Y)	N	NA
Are all surrogate recoveries within recovery ranges?	(Y)	N	NA
Are all Internal Standard areas w/in -50% to +100% of that in the CCV?	(Y)	N	NA
Are all Internal Standard retention times w/in 30 seconds of that in the CCV?	(Y)	N	NA
Are all MS/MSD compounds below the high standard?	(Y)	N	NA
Were sample analyses performed within holding times?	(Y)	N	NA
Were analyses performed such that carryover was not a problem?	(Y)	N	NA
Is the run log completely filled out (including review signature/date)?	(Y)	N	NA
Are all mistakes single lined out, initialled, & dated?	(Y)	N	NA

Analyst: KP	Reviewer:
Date: 3/25/00 Time: 12.15	Date: Time:

VOA GC/MS QC CHECKLIST
SW-846-8260B

BATCH #: A032100W	METHOD: 8260B
MATRIX: WATER	

Are BS/BSD/MS/MSD recoveries within recovery ranges?	(Y)	N	NA
Is/Are blank result(s) less than 1.2 RDL for analytes of interest?	(Y)	N	NA
Are all surrogate recoveries within recovery ranges?	(Y)	N	NA
Are all Internal Standard areas w/in -50% to +100% of that in the CCV?	(Y)	N	NA
Are all Internal Standard retention times w/in 30 seconds of that in the CCV?	(Y)	N	NA
Are all MS/MSD compounds below the high standard?	(Y)	N	NA
Were sample analyses performed within holding times?	(Y)	N	NA
Were analyses performed such that carryover was not a problem?	(Y)	N	NA
Is the run log completely filled out (including review signature/date)?	(Y)	N	NA
Are all mistakes single lined out, initialled, & dated?	(Y)	N	NA

Analyst: KF	Reviewer: Thomas A. Gatski
Date: 3/25/00 Time: 12.15	Date: 3/28/2000 Time: 17:06

Spike Recovery and RPD Summary Report - WATER

Method : C:\HPCHEM\1\DATA\032300\032300W.M (RTE Integrator)
Title : 8260 CALIBRATION FOR WATER 2/24/2000
Last Update : Wed Mar 08 23:04:31 2000
Response via : Initial Calibration

Non-Spiked Sample: A23453.D

	Spike Sample	Spike Duplicate Sample
File ID :	A23466.D	A23467.D
Sample :	AB89497ms 5ml DF=1	AB89497msd 5ml DF=1
Acq Time:	23 Mar 2000 6:31 pm	23 Mar 2000 7:03 pm

Compound	Sample Conc	Spike Added	Spike Res	Dup Res	Spike %Rec	Dup %Rec	RPD	QC Limits RPD	QC Limits % Rec
1,1-Dichloroethene	0.0	50	51	50	102	99	3	20	88-118
Benzene	0.0	50	51	51	102	102	0	20	83-121
Trichloroethene	0.0	50	51	50	102	101	2	20	68-109
Toluene	1.0	50	51	51	101	100	1	20	85-109
Chlorobenzene	0.0	50	49	48	97	96	1	20	82-110

- Fails Limit Check

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\032300\A23466.D Vial: 3
Acq On : 23 Mar 2000 6:31 pm Operator: KJ,TAG
Sample : AB89497ms 5ml DF=1 Inst : GC/MS Ins
Misc : 23975/A032100W Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Mar 23 18:56 2000 Quant Results File: 032300W.RES

Quant Method : C:\HPCHEM\1\DATA\032300\032300W.M (RTE Integrator)
Title : 8260 CALIBRATION FOR WATER 2/24/2000
Last Update : Mon Mar 13 09:17:29 2000
Response via : Initial Calibration
DataAcq Meth : 032300W

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.01	168	573534	50.00	ug\L	-0.03
45) Chlorobenzene-d5	13.49	117	498100	50.00	ug\L	0.00
61) 1,4-Dichlorobenzene-d4	17.72	152	320244	50.00	ug\L	0.00
System Monitoring Compounds						
32) 1,2-Dichloroethane-d4	7.46	65	251566	54.53	ug\L	-0.02
Spiked Amount 50.000	Range 80 - 120		Recovery = 109.06%			
46) Toluene-d8	10.92	98	568443	48.96	ug\L	0.00
Spiked Amount 50.000	Range 87 - 104		Recovery = 97.92%			
65) Bromofluorobenzene	15.62	95	423313	52.44	ug\L	0.00
Spiked Amount 50.000	Range 84 - 110		Recovery = 104.88%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.73	85	162005	42.69	ug\L	99
3) Chloromethane	1.90	50	86234	37.04	ug\L	96
4) Vinyl Chloride	2.00	62	123926	50.26	ug\L	98
5) Bromomethane	2.30	94	54919	31.55	ug\L	99
6) Chloroethane	2.39	64	49755	46.17	ug\L	99
7) Trichlorofluoromethane	2.66	101	399195	53.00	ug\L #	100
8) Acrolein	3.14	56	18913	122.49	ug\L	96
9) Acrylonitrile	4.21	53	65487	115.09	ug\L	99
10) 1,1-Dichloroethene	3.24	96	165934	51.21	ug\L	94
11) Acetone	3.33	58	13858	63.20	ug\L	94
12) Iodomethane	3.43	142	340328	65.04	ug\L	100
13) Allylchloride	3.70	76	75699	52.09	ug\L	90
14) Carbon Disulfide	3.50	76	493186	67.98	ug\L	100
15) Acetonitrile	3.69	41	285760	538.33	ug\L	99
16) Methylene Chloride	3.86	84	162252	51.62	ug\L	98
17) trans-1,2-Dichloroethene	4.26	96	178121	50.83	ug\L	95
18) MethylTertButylEther	4.28	73	404835	50.50	ug\L	99
19) 1,1-Dichloroethane	4.92	63	322306	53.30	ug\L	99
20) Vinyl Acetate	5.07	43	165353	93.86	ug\L	99
21) 2,2-Dichloropropane	5.96	77	243544	44.97	ug\L	98
22) cis-1,2-Dichloroethene	5.97	96	196340	51.08	ug\L	97
23) 2-Butanone	6.07	72	17551	58.59	ug\L #	20
24) Propionitrile	6.15	54	127007	583.90	ug\L #	98
25) Methacrylonitrile	6.42	41	647647	544.12	ug\L	98
26) Bromochloromethane	6.41	128	121947	52.61	ug\L	96
27) Chloroform	6.59	83	432867	54.94	ug\L	100
28) 1,1,1-Trichloroethane	6.88	97	363017	47.77	ug\L #	89

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

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\032300\A23466.D Vial: 3
Acq On : 23 Mar 2000 6:31 pm Operator: KJ,TAG
Sample : AB89497ms 5ml DF=1 Inst : GC/MS Ins
Misc : 23975/A032100W Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Mar 23 18:56 2000 Quant Results File: 032300W.RES

Quant Method : C:\HPCHEM\1\DATA\032300\032300W.M (RTE Integrator)
Title : 8260 CALIBRATION FOR WATER 2/24/2000
Last Update : Mon Mar 13 09:17:29 2000
Response via : Initial Calibration
DataAcq Meth : 032300W

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
29)	Carbon Tetrachloride	7.18	117	217495	34.21	ug\L		100
30)	1,4-Dioxane	9.45	88	35454	1385.51	ug\L	#	92
31)	1,1-Dichloropropene	7.18	75	299393	52.29	ug\L		98
33)	Benzene	7.55	78	498817	50.88	ug\L		100
34)	Isobutyl alcohol	7.65	43	96100	1267.81	ug\L		97
35)	1,2-Dichloroethane	7.60	62	281832	57.72	ug\L		96
36)	Trichloroethene	8.75	95	281929	51.25	ug\L		94
37)	1,2-Dichloropropane	9.14	63	211736	53.80	ug\L		99
38)	Dibromomethane	9.34	93	170878	58.99	ug\L		96
39)	Methylmethacrylate	9.46	69	125025	58.79	ug\L		99
40)	Bromodichloromethane	9.67	83	336152	45.69	ug\L		98
41)	2-Nitropropane	12.30	43	108825	56.64	ug\L		98
42)	2-Chloroethyl-vinyl ether	10.20	63	3446	12.28	ug\L	#	44
43)	cis-1,3-Dichloropropene	10.48	75	268449	48.92	ug\L		99
44)	4-Methyl-2-Pentanone	10.80	85	29881	59.63	ug\L	#	94
47)	Toluene	11.04	92	362599	51.46	ug\L		97
48)	trans-1,3-Dichloropropene	11.48	75	262028	51.95	ug\L		98
49)	Ethylmethacrylate	11.72	69	269852	56.83	ug\L	#	99
50)	1,1,2-Trichloroethane	11.79	83	164748	51.73	ug\L		99
51)	Tetrachloroethene	12.00	164	249326	48.23	ug\L		97
52)	1,3-Dichloropropane	12.07	76	304616	53.67	ug\L		99
53)	2-Hexanone	12.30	43	108825	54.61	ug\L		99
54)	Dibromochloromethane	12.48	129	324451	49.97	ug\L		98
55)	1,2-Dibromoethane	12.63	107	264804	51.42	ug\L		98
56)	Chlorobenzene	13.54	112	458597	48.51	ug\L		94
57)	1,1,1,2-Tetrachloroethane	13.72	131	261441	49.62	ug\L		99
58)	Ethylbenzene	13.78	91	769984	52.12	ug\L		98
59)	total-Xylene	13.99	106	824378m	152.93	ug\L		
60)	Styrene	14.72	104	464010	50.26	ug\L		95
62)	Bromoform	15.02	173	257450	53.78	ug\L		100
63)	Isopropylbenzene	15.38	105	831238	52.01	ug\L		96
64)	1,4-dichloro-2-Butene	15.51	53	64805	74.14	ug\L	#	17
66)	Bromobenzene	15.86	156	276924	50.63	ug\L		91
67)	1,1,2,2-Tetrachloroethane	15.95	83	294586	54.55	ug\L		100
68)	1,2,3-Trichloropropane	15.99	75	267721	55.89	ug\L	#	100
69)	n-Propylbenzene	16.13	91	1018890	54.67	ug\L		95
70)	2-Chlorotoluene	16.23	91	578028	51.06	ug\L		98
71)	4-Chlorotoluene	16.44	91	796289	53.17	ug\L		98
72)	1,3,5-Trimethylbenzene	16.46	105	737104	52.34	ug\L		97
73)	Pentachloroethane	17.05	167	192096	54.90	ug\L		98

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

Data File : C:\HPCHEM\1\DATA\032300\A23466.D
Acq On : 23 Mar 2000 6:31 pm
Sample : AB89497ms 5ml DF=1
Misc : 23975/A032100W
MS Integration Params: rteint.p
Quant Time: Mar 23 18:56 2000

Vial: 3
Operator: KJ,TAG
Inst : GC/MS Ins
Multiplr: 1.00

Quant Results File: 032300W.RES

Quant Method : C:\HPCHEM\1\DATA\032300\032300W.M (RTE Integrator)
Title : 8260 CALIBRATION FOR WATER 2/24/2000
Last Update : Mon Mar 13 09:17:29 2000
Response via : Initial Calibration
DataAcq Meth : 032300W

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
74)	tert-Butylbenzene	17.04	119	864061	51.20	ug\L	98
75)	1,2,4-Trimethylbenzene	17.13	105	745863	51.80	ug\L	97
76)	sec-Butylbenzene	17.44	105	992202	51.57	ug\L	98
77)	1,3-Dichlorobenzene	17.60	146	455571	50.54	ug\L	98
78)	Isopropyltoluene	17.73	119	805624	50.23	ug\L	98
79)	1,4-Dichlorobenzene	17.77	146	471215	49.55	ug\L	99
80)	1,2-Dichlorobenzene	18.43	146	428635	52.02	ug\L	98
81)	n-Butylbenzene	18.48	91	829198	54.41	ug\L	95
82)	1,2-Dibromo-3-chloropropan	19.86	75	88893	60.35	ug\L	92
83)	1,2,4-trichlorobenzene	21.39	180	397280	50.88	ug\L	100
84)	Hexachlorobutadiene	21.75	225	313834	50.04	ug\L	100
85)	Naphthalene	21.82	128	589927	57.07	ug\L	100
86)	1,2,3-Trichlorobenzene	22.28	180	368484	52.21	ug\L	98

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

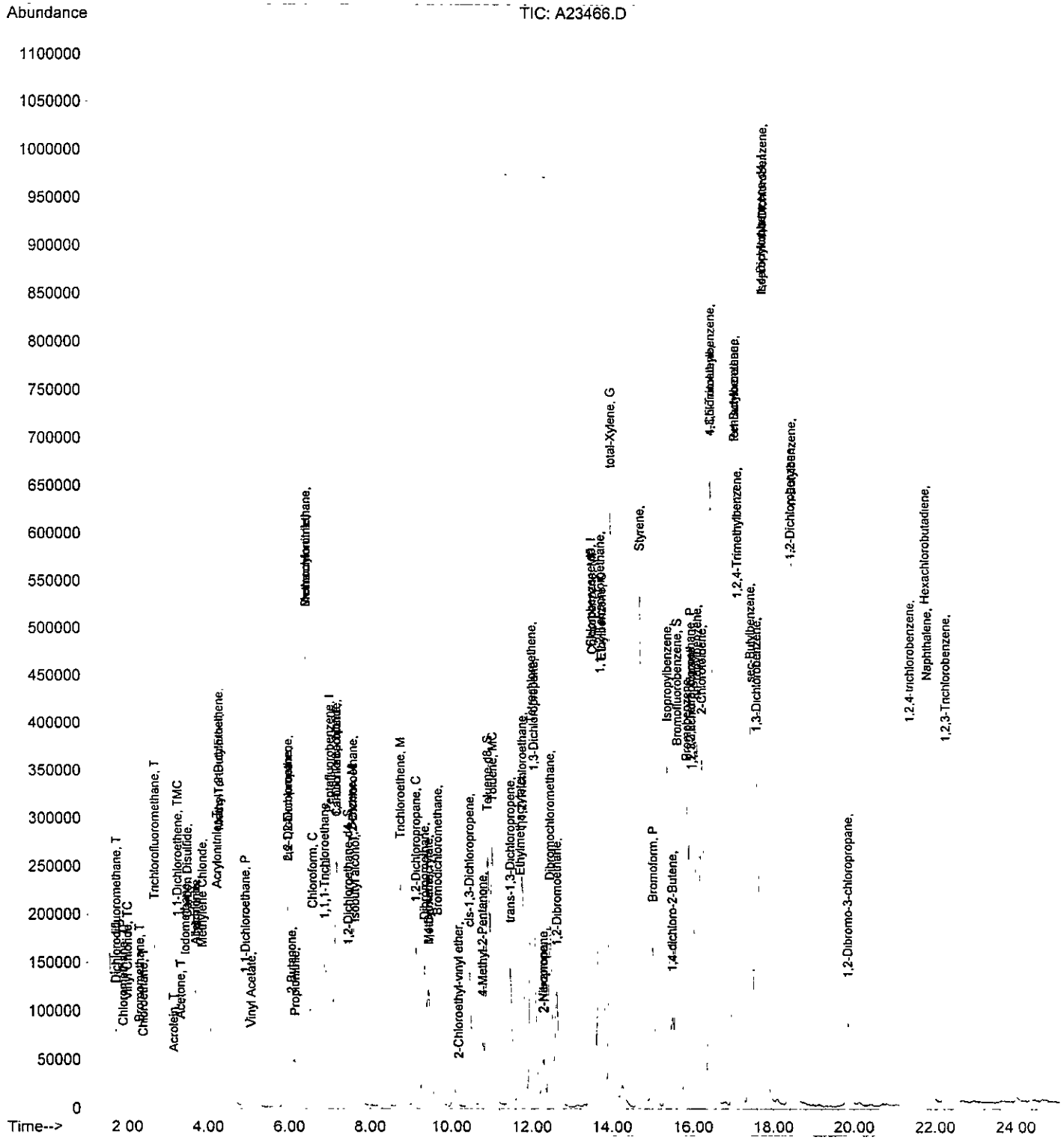
Quantitation Report

Data File : C:\HPCHEM\1\DATA\032300\A23466.D
Acq On : 23 Mar 2000 6:31 pm
Sample : AB89497ms 5ml DF=1
Misc : 23975/A032100W
MS Integration Params: rteint.p
Quant Time: Mar 23 18:56 2000

Vial: 3
Operator: KJ,TAG
Inst : GC/MS Ins
Multiplr: 1.00

Quant Results File: 032300W.RES

Method : C:\HPCHEM\1\DATA\032300\032300W.M (RTE Integrator)
Title : 8260 CALIBRATION FOR WATER 2/24/2000
Last Update : Wed Mar 08 23:04:31 2000
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\032300\A23467.D Vial: 4
Acq On : 23 Mar 2000 7:03 pm Operator: KJ,TAG
Sample : AB89497msd 5ml DF=1 Inst : GC/MS Ins
Misc : 23975/A032100W Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Mar 23 19:28 2000 Quant Results File: 032300W.RES

Quant Method : C:\HPCHEM\1\DATA\032300\032300W.M (RTE Integrator)
Title : 8260 CALIBRATION FOR WATER 2/24/2000
Last Update : Mon Mar 13 09:17:29 2000
Response via : Initial Calibration
DataAcq Meth : 032300W

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Pentafluorobenzene	7.01	168	588861	50.00	ug\L		-0.03
45) Chlorobenzene-d5	13.49	117	506916	50.00	ug\L		0.00
61) 1,4-Dichlorobenzene-d4	17.73	152	322535	50.00	ug\L		0.00
System Monitoring Compounds							
32) 1,2-Dichloroethane-d4	7.46	65	256420	54.14	ug\L		-0.02
Spiked Amount 50.000	Range 80 - 120		Recovery = 108.28%				
46) Toluene-d8	10.93	98	578571	48.96	ug\L		0.00
Spiked Amount 50.000	Range 87 - 104		Recovery = 97.92%				
65) Bromofluorobenzene	15.63	95	428877	52.75	ug\L		0.00
Spiked Amount 50.000	Range 84 - 110		Recovery = 105.50%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.72	85	154992	39.78	ug\L		97
3) Chloromethane	1.90	50	92848	38.85	ug\L		98
4) Vinyl Chloride	2.00	62	122257	48.29	ug\L		99
5) Bromomethane	2.29	94	68027	39.53	ug\L		95
6) Chloroethane	2.39	64	49694	44.26	ug\L		100
7) Trichlorofluoromethane	2.67	101	390539	50.51	ug\L	#	100
8) Acrolein	3.13	56	18840	118.76	ug\L		95
9) Acrylonitrile	4.22	53	66691	114.16	ug\L		99
10) 1,1-Dichloroethene	3.25	96	165447	49.73	ug\L		94
11) Acetone	3.34	58	14618	65.32	ug\L		98
12) Iodomethane	3.42	142	336983	62.73	ug\L		98
13) Allylchloride	3.69	76	73378	49.18	ug\L		86
14) Carbon Disulfide	3.49	76	499075	67.00	ug\L		100
15) Acetonitrile	3.69	41	285510	523.86	ug\L		98
16) Methylene Chloride	3.86	84	164955	51.12	ug\L		99
17) trans-1,2-Dichloroethene	4.25	96	177989	49.47	ug\L		95
18) MethylTertButylEther	4.28	73	417654	50.75	ug\L		99
19) 1,1-Dichloroethane	4.91	63	330238	53.19	ug\L		98
20) Vinyl Acetate	5.06	43	169881	93.92	ug\L		99
21) 2,2-Dichloropropane	5.94	77	245912	44.23	ug\L	#	53
22) cis-1,2-Dichloroethene	5.98	96	197822	50.13	ug\L		96
23) 2-Butanone	6.06	72	17465	56.70	ug\L	#	22
24) Propionitrile	6.14	54	133931	599.71	ug\L	#	88
25) Methacrylonitrile	6.41	41	677596	554.46	ug\L		99
26) Bromochloromethane	6.41	128	124297	52.23	ug\L		95
27) Chloroform	6.59	83	435779	53.87	ug\L		100
28) 1,1,1-Trichloroethane	6.88	97	376102	48.21	ug\L	#	54

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

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\032300\A23467.D Vial: 4
Acq On : 23 Mar 2000 7:03 pm Operator: KJ,TAG
Sample : AB89497msd 5ml DF=1 Inst : GC/MS Ins
Misc : 23975/A032100W Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Mar 23 19:28 2000 Quant Results File: 032300W.RES

Quant Method : C:\HPCHEM\1\DATA\032300\032300W.M (RTE Integrator)
Title : 8260 CALIBRATION FOR WATER 2/24/2000
Last Update : Mon Mar 13 09:17:29 2000
Response via : Initial Calibration
DataAcq Meth : 032300W

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
29)	Carbon Tetrachloride	7.17	117	226185	34.65	ug\L		99
30)	1,4-Dioxane	9.46	88	37179	1415.72	ug\L		96
31)	1,1-Dichloropropene	7.19	75	303288	51.59	ug\L		99
33)	Benzene	7.55	78	511469	50.82	ug\L		100
34)	Isobutyl alcohol	7.65	43	101016	1296.49	ug\L		97
35)	1,2-Dichloroethane	7.60	62	283230	56.49	ug\L		96
36)	Trichloroethene	8.76	95	284754	50.42	ug\L		93
37)	1,2-Dichloropropane	9.13	63	214355	53.04	ug\L		100
38)	Dibromomethane	9.35	93	169316	56.93	ug\L		95
39)	Methylmethacrylate	9.45	69	131680	60.31	ug\L		97
40)	Bromodichloromethane	9.67	83	350855	46.44	ug\L		99
41)	2-Nitropropane	12.30	43	115052	58.32	ug\L		96
42)	2-Chloroethyl-vinyl ether	10.18	63	5098	15.26	ug\L	#	58
43)	cis-1,3-Dichloropropene	10.47	75	269211	47.78	ug\L		98
44)	4-Methyl-2-Pentanone	10.79	85	31311	60.85	ug\L	#	94
47)	Toluene	11.04	92	366589	51.12	ug\L		96
48)	trans-1,3-Dichloropropene	11.48	75	268197	52.24	ug\L		99
49)	Ethylmethacrylate	11.73	69	282749	58.51	ug\L	#	99
50)	1,1,2-Trichloroethane	11.79	83	167645	51.72	ug\L		99
51)	Tetrachloroethene	12.01	164	247772	47.10	ug\L		97
52)	1,3-Dichloropropane	12.07	76	312485	54.10	ug\L		99
53)	2-Hexanone	12.30	43	115052	56.73	ug\L		99
54)	Dibromochloromethane	12.47	129	337812	51.12	ug\L		100
55)	1,2-Dibromoethane	12.62	107	273749	52.23	ug\L		99
56)	Chlorobenzene	13.54	112	464238	48.25	ug\L		94
57)	1,1,1,2-Tetrachloroethane	13.70	131	264528	49.33	ug\L		98
58)	Ethylbenzene	13.76	91	772962	51.41	ug\L		99
59)	total-Xylene	13.99	106	831897m	151.64	ug\L		
60)	Styrene	14.73	104	468346	49.85	ug\L		94
62)	Bromoform	15.02	173	264228	54.81	ug\L		99
63)	Isopropylbenzene	15.38	105	841744	52.30	ug\L		98
64)	1,4-dichloro-2-Butene	15.52	53	68601	77.43	ug\L	#	15
66)	Bromobenzene	15.86	156	281304	51.07	ug\L		89
67)	1,1,2,2-Tetrachloroethane	15.95	83	303496	55.80	ug\L		99
68)	1,2,3-Trichloropropane	15.99	75	284741	59.02	ug\L	#	100
69)	n-Propylbenzene	16.12	91	1020789	54.38	ug\L		96
70)	2-Chlorotoluene	16.24	91	589699	51.72	ug\L		97
71)	4-Chlorotoluene	16.45	91	806663	53.48	ug\L		98
72)	1,3,5-Trimethylbenzene	16.46	105	745156	52.53	ug\L		97
73)	Pentachloroethane	17.05	167	194379	55.16	ug\L		99

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

Data File : C:\HPCHEM\1\DATA\032300\A23467.D
Acq On : 23 Mar 2000 7:03 pm
Sample : AB89497msd 5ml DF=1
Misc : 23975/A032100W
MS Integration Params: rteint.p
Quant Time: Mar 23 19:28 2000

Vial: 4
Operator: KJ,TAG
Inst : GC/MS Ins
Multiplr: 1.00

Quant Results File: 032300W.RES

Quant Method : C:\HPCHEM\1\DATA\032300\032300W.M (RTE Integrator)
Title : 8260 CALIBRATION FOR WATER 2/24/2000
Last Update : Mon Mar 13 09:17:29 2000
Response via : Initial Calibration
DataAcq Meth : 032300W

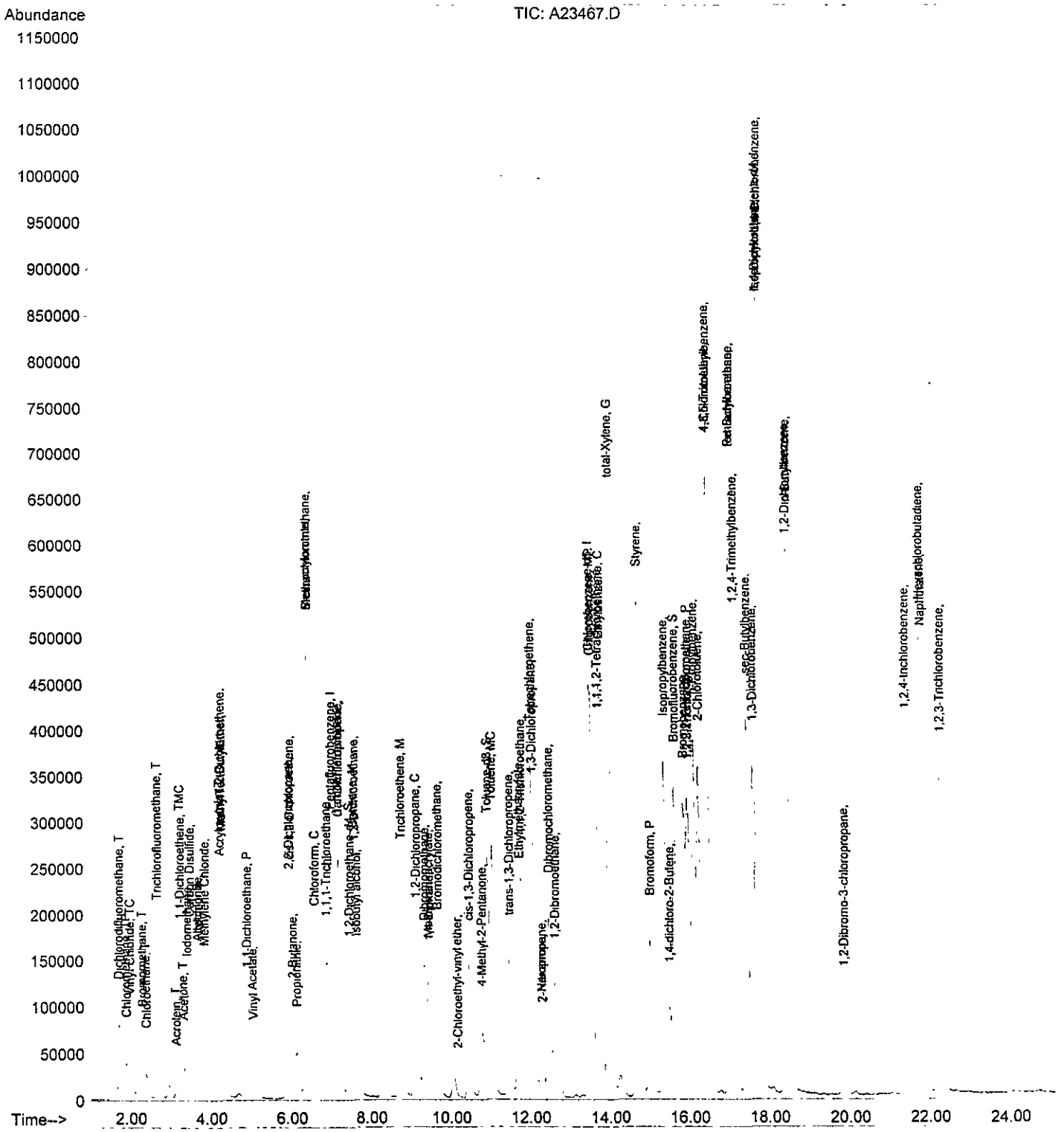
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
74)	tert-Butylbenzene	17.04	119	873794	51.41	ug\L	98
75)	1,2,4-Trimethylbenzene	17.14	105	762234	52.56	ug\L	97
76)	sec-Butylbenzene	17.44	105	1010221	52.13	ug\L	97
77)	1,3-Dichlorobenzene	17.60	146	461425	50.83	ug\L	98
78)	Isopropyltoluene	17.73	119	831317	51.46	ug\L	98
79)	1,4-Dichlorobenzene	17.77	146	484377	50.57	ug\L	99
80)	1,2-Dichlorobenzene	18.44	146	432348	52.09	ug\L	98
81)	n-Butylbenzene	18.48	91	834470	54.37	ug\L	95
82)	1,2-Dibromo-3-chloropropan	19.86	75	93636	63.12	ug\L	92
83)	1,2,4-trichlorobenzene	21.40	180	411482	52.33	ug\L	100
84)	Hexachlorobutadiene	21.75	225	320034	50.67	ug\L	100
85)	Naphthalene	21.81	128	648890	62.59	ug\L	100
86)	1,2,3-Trichlorobenzene	22.28	180	378227	53.21	ug\L	99

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

Quantitation Report

Data File : C:\HPCHEM\1\DATA\032300\A23467.D Vial: 4
Acq On : 23 Mar 2000 7:03 pm Operator: KJ,TAG
Sample : AB89497msd 5ml DF=1 Inst : GC/MS Ins
Misc : 23975/A032100W Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Mar 23 19:28 2000 Quant Results File: 032300W.RES

Method : C:\HPCHEM\1\DATA\032300\032300W.M (RTE Integrator)
Title : 8260 CALIBRATION FOR WATER 2/24/2000
Last Update : Wed Mar 08 23:04:31 2000
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\032300\A23451.D Vial: 3
Acq On : 23 Mar 2000 10:30 am Operator: KJ,TAG
Sample : WATER BLANK SPIKE 5ml DF=1 Inst : GC/MS Ins
Misc : QC Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Mar 23 10:55 2000 Quant Results File: 032300W.RES

Quant Method : C:\HPCHEM\1\DATA\032300\032300W.M (RTE Integrator)
Title : 8260 CALIBRATION FOR WATER 2/24/2000
Last Update : Mon Mar 13 09:17:29 2000
Response via : Initial Calibration
DataAcq Meth : 032300W

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Pentafluorobenzene	7.03	168	671488	50.00	ug\L		0.00
45) Chlorobenzene-d5	13.48	117	584092	50.00	ug\L		0.00
61) 1,4-Dichlorobenzene-d4	17.71	152	335950	50.00	ug\L		-0.01
System Monitoring Compounds							
32) 1,2-Dichloroethane-d4	7.46	65	278999	51.66	ug\L		-0.01
Spiked Amount 50.000	Range 80 - 120		Recovery = 103.32%				
46) Toluene-d8	10.93	98	677274	49.74	ug\L		0.00
Spiked Amount 50.000	Range 87 - 104		Recovery = 99.48%				
65) Bromofluorobenzene	15.62	95	407151	48.08	ug\L		-0.01
Spiked Amount 50.000	Range 84 - 110		Recovery = 96.16%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.72	85	175601	39.52	ug\L		99
3) Chloromethane	1.90	50	122092	44.80	ug\L		100
4) Vinyl Chloride	2.01	62	140009	48.50	ug\L		100
5) Bromomethane	2.30	94	84093	43.45	ug\L		96
6) Chloroethane	2.41	64	62431	51.20	ug\L		97
7) Trichlorofluoromethane	2.67	101	441635	50.09	ug\L	#	100
8) Acrolein	3.14	56	16263	89.23	ug\L		96
9) Acrylonitrile	4.22	53	64276	96.49	ug\L		99
10) 1,1-Dichloroethene	3.25	96	191218	50.40	ug\L		99
11) Acetone	3.32	58	11546	40.85	ug\L		91
12) Iodomethane	3.42	142	358720	58.56	ug\L		98
13) Allylchloride	3.71	76	83018	48.79	ug\L		91
14) Carbon Disulfide	3.50	76	447300	52.66	ug\L		100
15) Acetonitrile	3.70	41	311214	500.76	ug\L		99
16) Methylene Chloride	3.86	84	187918	51.07	ug\L		98
17) trans-1,2-Dichloroethene	4.26	96	206232	50.27	ug\L		99
18) MethylTertButylEther	4.29	73	457299	48.73	ug\L		99
19) 1,1-Dichloroethane	4.94	63	358375	50.62	ug\L		99
20) Vinyl Acetate	5.06	43	177256	85.94	ug\L		99
21) 2,2-Dichloropropane	5.96	77	278540	43.93	ug\L		99
22) cis-1,2-Dichloroethene	5.99	96	222733	49.50	ug\L		99
23) 2-Butanone	6.06	72	15739	44.23	ug\L	#	15
24) Propionitrile	6.15	54	115046	451.76	ug\L	#	99
25) Methacrylonitrile	6.42	41	656772	471.29	ug\L		99
26) Bromochloromethane	6.42	128	137439	50.65	ug\L		99
27) Chloroform	6.61	83	476270	51.63	ug\L		99
28) 1,1,1-Trichloroethane	6.89	97	428468	48.16	ug\L		95

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

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\032300\A23451.D Vial: 3
Acq On : 23 Mar 2000 10:30 am Operator: KJ,TAG
Sample : WATER BLANK SPIKE 5ml DF=1 Inst : GC/MS Ins
Misc : QC Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Mar 23 10:55 2000 Quant Results File: 032300W.RES

Quant Method : C:\HPCHEM\1\DATA\032300\032300W.M (RTE Integrator)
Title : 8260 CALIBRATION FOR WATER 2/24/2000
Last Update : Mon Mar 13 09:17:29 2000
Response via : Initial Calibration
DataAcq Meth : 032300W

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
29)	Carbon Tetrachloride	7.19	117	282801	37.99	ug\L		100
30)	1,4-Dioxane	9.47	88	33604	1116.13	ug\L		98
31)	1,1-Dichloropropene	7.20	75	343610	51.26	ug\L		98
33)	Benzene	7.55	78	566566	49.36	ug\L		100
34)	Isobutyl alcohol	7.66	43	85763	981.20	ug\L		97
35)	1,2-Dichloroethane	7.60	62	289519	50.64	ug\L		100
36)	Trichloroethene	8.75	95	314336	48.81	ug\L		98
37)	1,2-Dichloropropane	9.13	63	233969	50.77	ug\L		99
38)	Dibromomethane	9.34	93	176515	52.05	ug\L		100
39)	Methylmethacrylate	9.46	69	127875	51.36	ug\L		99
40)	Bromodichloromethane	9.67	83	420792	48.85	ug\L		99
41)	2-Nitropropane	12.29	43	102480	45.56	ug\L		98
42)	2-Chloroethyl-vinyl ether	10.18	63	8523	19.79	ug\L	#	74
43)	cis-1,3-Dichloropropene	10.47	75	342654	53.33	ug\L		99
44)	4-Methyl-2-Pentanone	10.79	85	28870	49.21	ug\L	#	90
47)	Toluene	11.04	92	420326	50.87	ug\L		100
48)	trans-1,3-Dichloropropene	11.48	75	305939	51.72	ug\L		98
49)	Ethylmethacrylate	11.71	69	279801	50.25	ug\L	#	99
50)	1,1,2-Trichloroethane	11.78	83	186239	49.87	ug\L		98
51)	Tetrachloroethene	12.01	164	310891	51.29	ug\L		99
52)	1,3-Dichloropropane	12.07	76	338198	50.82	ug\L		100
53)	2-Hexanone	12.29	43	102480	43.85	ug\L		98
54)	Dibromochloromethane	12.47	129	390210	51.25	ug\L		99
55)	1,2-Dibromoethane	12.62	107	305933	50.66	ug\L		100
56)	Chlorobenzene	13.52	112	565904	51.04	ug\L		99
57)	1,1,1,2-Tetrachloroethane	13.70	131	320517	51.88	ug\L		99
58)	Ethylbenzene	13.76	91	889057	51.32	ug\L		99
59)	total-Xylene	13.98	106	975645m	154.35	ug\L		
60)	Styrene	14.71	104	555257	51.29	ug\L		98
62)	Bromoform	15.01	173	282569	56.27	ug\L		99
63)	Isopropylbenzene	15.36	105	822530	49.06	ug\L		100
64)	1,4-dichloro-2-Butene	15.50	53	59983	66.56	ug\L	#	19
66)	Bromobenzene	15.86	156	282370	49.21	ug\L		99
67)	1,1,2,2-Tetrachloroethane	15.93	83	268509	47.40	ug\L		100
68)	1,2,3-Trichloropropane	15.98	75	233671	46.50	ug\L	#	100
69)	n-Propylbenzene	16.11	91	971119	49.67	ug\L		98
70)	2-Chlorotoluene	16.23	91	572390	48.19	ug\L		99
71)	4-Chlorotoluene	16.43	91	767107	48.83	ug\L		99
72)	1,3,5-Trimethylbenzene	16.46	105	723396	48.96	ug\L		100
73)	Pentachloroethane	17.04	167	191375	52.14	ug\L		99

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

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\032300\A23451.D Vial: 3
Acq On : 23 Mar 2000 10:30 am Operator: KJ,TAG
Sample : WATER BLANK SPIKE 5ml DF=1 Inst : GC/MS Ins
Misc : QC Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Mar 23 10:55 2000 Quant Results File: 032300W.RES

Quant Method : C:\HPCHEM\1\DATA\032300\032300W.M (RTE Integrator)
Title : 8260 CALIBRATION FOR WATER 2/24/2000
Last Update : Mon Mar 13 09:17:29 2000
Response via : Initial Calibration
DataAcq Meth : 032300W

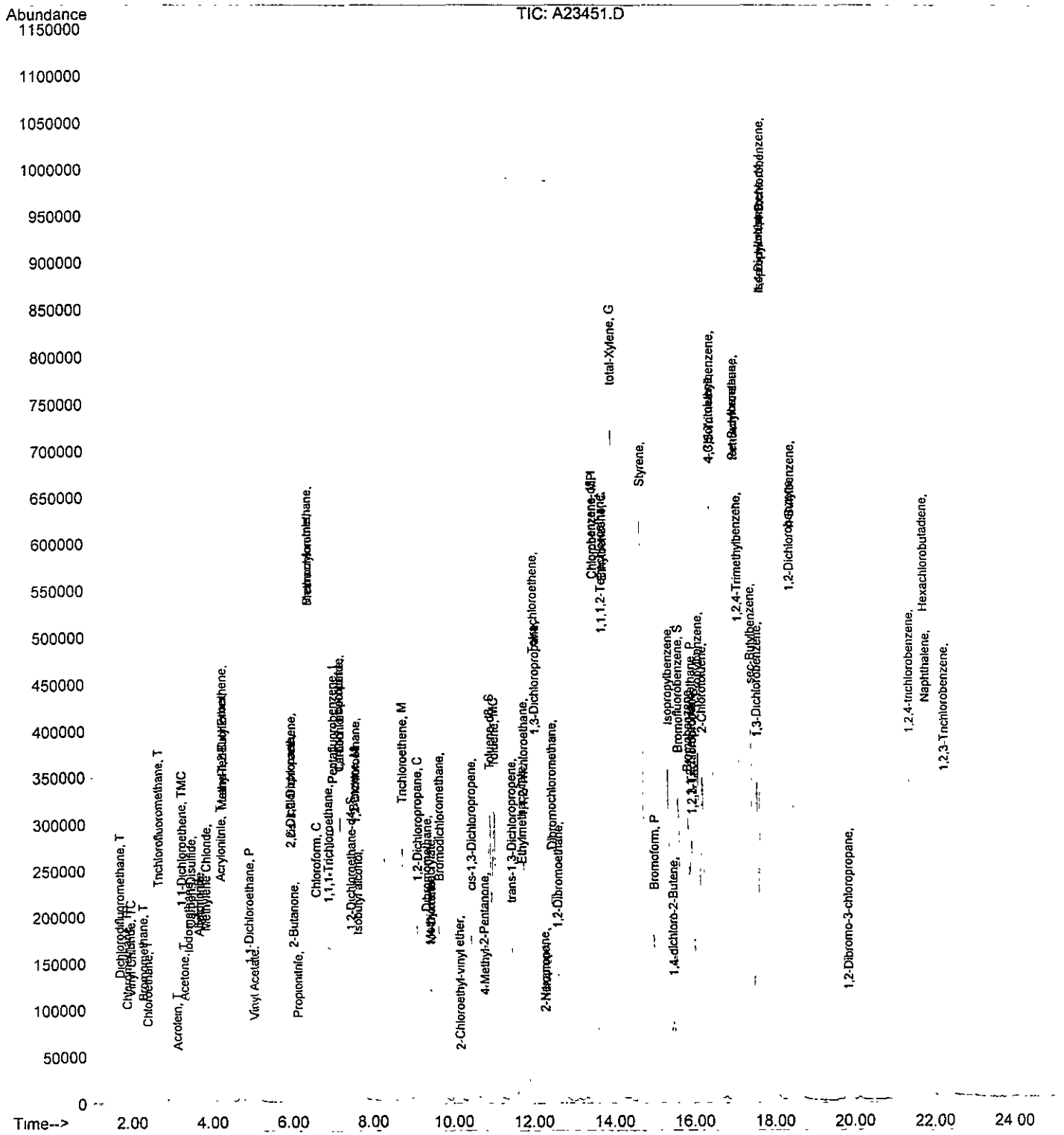
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
74)	tert-Butylbenzene	17.03	119	890776	50.31	ug\L	99
75)	1,2,4-Trimethylbenzene	17.12	105	741932	49.12	ug\L	100
76)	sec-Butylbenzene	17.43	105	996346	49.36	ug\L	100
77)	1,3-Dichlorobenzene	17.59	146	469415	49.64	ug\L	99
78)	Isopropyltoluene	17.71	119	840405	49.94	ug\L	99
79)	1,4-Dichlorobenzene	17.75	146	486666	48.78	ug\L	99
80)	1,2-Dichlorobenzene	18.41	146	438902	50.77	ug\L	100
81)	n-Butylbenzene	18.46	91	806072	50.42	ug\L	99
82)	1,2-Dibromo-3-chloropropan	19.86	75	71481	46.26	ug\L	98
83)	1,2,4-trichlorobenzene	21.37	180	389754	47.59	ug\L	100
84)	Hexachlorobutadiene	21.75	225	325823	49.53	ug\L	100
85)	Naphthalene	21.81	128	507064	46.26	ug\L	100
86)	1,2,3-Trichlorobenzene	22.27	180	348047	47.01	ug\L	99

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

Quantitation Report

Data File : C:\HPCHEM\1\DATA\032300\A23451.D Vial: 3
Acq On : 23 Mar 2000 10:30 am Operator: KJ,TAG
Sample : WATER BLANK SPIKE 5ml DF=1 Inst : GC/MS Ins
Misc : QC Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Mar 23 10:55 2000 Quant Results File: 032300W.RES

Method : C:\HPCHEM\1\DATA\032300\032300W.M (RTE Integrator)
Title : 8260 CALIBRATION FOR WATER 2/24/2000
Last Update : Wed Mar 08 23:04:31 2000
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\032300\A23452.D Vial: 4
Acq On : 23 Mar 2000 11:02 am Operator: KJ,TAG
Sample : WATER BLANK SPIKE DUP. 5ml DF=1 Inst : GC/MS Ins
Misc : QC Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Mar 23 11:27 2000 Quant Results File: 032300W.RES

Quant Method : C:\HPCHEM\1\DATA\032300\032300W.M (RTE Integrator)
Title : 8260 CALIBRATION FOR WATER 2/24/2000
Last Update : Mon Mar 13 09:17:29 2000
Response via : Initial Calibration
DataAcq Meth : 032300W

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.00	168	609668	50.00	ug\L	-0.03
45) Chlorobenzene-d5	13.47	117	503729	50.00	ug\L	-0.01
61) 1,4-Dichlorobenzene-d4	17.70	152	338884	50.00	ug\L	-0.02
System Monitoring Compounds						
32) 1,2-Dichloroethane-d4	7.45	65	232700	47.45	ug\L	-0.02
Spiked Amount 50.000	Range 80 - 120		Recovery = 94.90%			
46) Toluene-d8	10.92	98	574295	48.91	ug\L	-0.01
Spiked Amount 50.000	Range 87 - 104		Recovery = 97.82%			
65) Bromofluorobenzene	15.62	95	430537	50.40	ug\L	-0.01
Spiked Amount 50.000	Range 84 - 110		Recovery = 100.80%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.72	85	174618	43.28	ug\L	99
3) Chloromethane	1.89	50	136163	55.03	ug\L	99
4) Vinyl Chloride	2.00	62	144275	55.04	ug\L	98
5) Bromomethane	2.30	94	85267	49.36	ug\L	96
6) Chloroethane	2.40	64	60254	55.93	ug\L	99
7) Trichlorofluoromethane	2.67	101	443080	55.35	ug\L #	100
8) Acrolein	3.14	56	19239	117.10	ug\L	95
9) Acrylonitrile	4.21	53	65057	107.56	ug\L	97
10) 1,1-Dichloroethene	3.23	96	194265	56.40	ug\L	99
11) Acetone	3.32	58	12707	52.55	ug\L	96
12) Iodomethane	3.41	142	309360	55.62	ug\L	99
13) Allylchloride	3.68	76	81525	52.77	ug\L	92
14) Carbon Disulfide	3.49	76	452755	58.71	ug\L	100
15) Acetonitrile	3.68	41	304264	539.22	ug\L	98
16) Methylene Chloride	3.85	84	196566	58.84	ug\L	99
17) trans-1,2-Dichloroethene	4.25	96	209546	56.26	ug\L	99
18) MethylTertButylEther	4.28	73	470019	55.16	ug\L	100
19) 1,1-Dichloroethane	4.91	63	367533	57.18	ug\L	99
20) Vinyl Acetate	5.04	43	183048	97.74	ug\L #	69
21) 2,2-Dichloropropane	5.96	77	268639	46.67	ug\L	99
22) cis-1,2-Dichloroethene	5.97	96	233205	57.08	ug\L	100
23) 2-Butanone	6.04	72	16043	50.00	ug\L #	20
24) Propionitrile	6.14	54	122760	530.93	ug\L #	100
25) Methacrylonitrile	6.41	41	696589	550.55	ug\L	99
26) Bromochloromethane	6.40	128	139527	56.63	ug\L	97
27) Chloroform	6.59	83	487629	58.22	ug\L	99
28) 1,1,1-Trichloroethane	6.86	97	427124	52.88	ug\L #	24

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

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\032300\A23452.D Vial: 4
Acq On : 23 Mar 2000 11:02 am Operator: KJ,TAG
Sample : WATER BLANK SPIKE DUP. 5ml DF=1 Inst : GC/MS Ins
Misc : QC Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Mar 23 11:27 2000 Quant Results File: 032300W.RES

Quant Method : C:\HPCHEM\1\DATA\032300\032300W.M (RTE Integrator)
Title : 8260 CALIBRATION FOR WATER 2/24/2000
Last Update : Mon Mar 13 09:17:29 2000
Response via : Initial Calibration
DataAcq Meth : 032300W

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
29)	Carbon Tetrachloride	7.18	117	204607	30.27	ug\L		100
30)	1,4-Dioxane	9.44	88	28054	1023.94	ug\L		94
31)	1,1-Dichloropropene	7.18	75	283934	46.65	ug\L		99
33)	Benzene	7.54	78	485508	46.59	ug\L		100
34)	Isobutyl alcohol	7.65	43	75758	956.31	ug\L		98
35)	1,2-Dichloroethane	7.59	62	244248	47.05	ug\L		99
36)	Trichloroethene	8.74	95	276126	47.22	ug\L		98
37)	1,2-Dichloropropane	9.13	63	208831	49.91	ug\L		100
38)	Dibromomethane	9.33	93	141094	45.82	ug\L		96
39)	Methylmethacrylate	9.44	69	110505	48.88	ug\L		97
40)	Bromodichloromethane	9.66	83	339273	43.38	ug\L		99
41)	2-Nitropropane	12.28	43	92628	45.35	ug\L		99
42)	2-Chloroethyl-vinyl ether	10.19	63	10543	24.95	ug\L	#	74
43)	cis-1,3-Dichloropropene	10.45	75	289285	49.59	ug\L		98
44)	4-Methyl-2-Pentanone	10.78	85	25371	47.63	ug\L	#	88
47)	Toluene	11.04	92	358973	50.38	ug\L		99
48)	trans-1,3-Dichloropropene	11.47	75	256137	50.21	ug\L		98
49)	Ethylmethacrylate	11.71	69	252268	52.53	ug\L	#	100
50)	1,1,2-Trichloroethane	11.78	83	164505	51.08	ug\L		100
51)	Tetrachloroethene	11.99	164	255856	48.94	ug\L		97
52)	1,3-Dichloropropane	12.06	76	292655	50.99	ug\L		100
53)	2-Hexanone	12.28	43	92628	45.96	ug\L		99
54)	Dibromochloromethane	12.45	129	329677	50.21	ug\L		100
55)	1,2-Dibromoethane	12.62	107	261116	50.14	ug\L		99
56)	Chlorobenzene	13.52	112	485239	50.75	ug\L		97
57)	1,1,1,2-Tetrachloroethane	13.69	131	267478	50.20	ug\L		100
58)	Ethylbenzene	13.75	91	766483	51.30	ug\L		99
59)	total-Xylene	13.98	106	826628m	151.64	ug\L		
60)	Styrene	14.70	104	471831	50.54	ug\L		95
62)	Bromoform	15.01	173	241487	47.67	ug\L		99
63)	Isopropylbenzene	15.36	105	848205	50.16	ug\L		97
64)	1,4-dichloro-2-Butene	15.49	53	60277	66.35	ug\L	#	21
66)	Bromobenzene	15.85	156	288248	49.80	ug\L		95
67)	1,1,2,2-Tetrachloroethane	15.93	83	279110	48.84	ug\L		100
68)	1,2,3-Trichloropropane	15.98	75	250353	49.39	ug\L	#	100
69)	n-Propylbenzene	16.11	91	979388	49.66	ug\L		98
70)	2-Chlorotoluene	16.22	91	637572	53.22	ug\L		96
71)	4-Chlorotoluene	16.44	91	808474	51.02	ug\L		99
72)	1,3,5-Trimethylbenzene	16.46	105	749641	50.30	ug\L		98
73)	Pentachloroethane	17.04	167	191318	51.67	ug\L		98

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

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\032300\A23452.D Vial: 4
Acq On : 23 Mar 2000 11:02 am Operator: KJ,TAG
Sample : WATER BLANK SPIKE DUP. 5ml DF=1 Inst : GC/MS Ins
Misc : QC Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Mar 23 11:27 2000 Quant Results File: 032300W.RES

Quant Method : C:\HPCHEM\1\DATA\032300\032300W.M (RTE Integrator)
Title : 8260 CALIBRATION FOR WATER 2/24/2000
Last Update : Mon Mar 13 09:17:29 2000
Response via : Initial Calibration
DataAcq Meth : 032300W

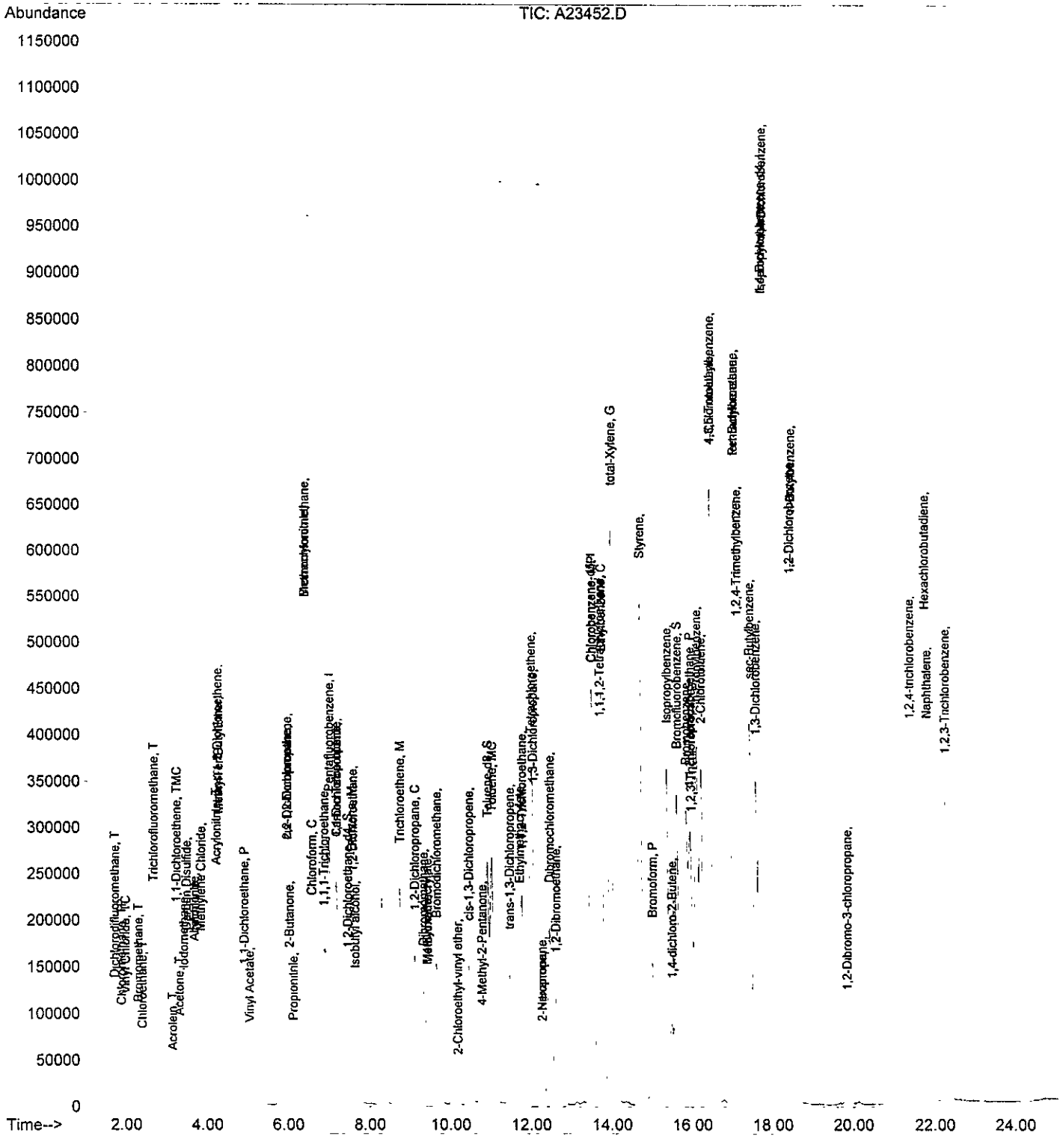
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
74)	tert-Butylbenzene	17.03	119	897283	50.24	ug\L	98
75)	1,2,4-Trimethylbenzene	17.12	105	766668	50.32	ug\L	98
76)	sec-Butylbenzene	17.43	105	1014269	49.82	ug\L	98
77)	1,3-Dichlorobenzene	17.58	146	468434	49.11	ug\L	99
78)	Isopropyltoluene	17.71	119	827079	48.73	ug\L	99
79)	1,4-Dichlorobenzene	17.75	146	481500	47.84	ug\L	98
80)	1,2-Dichlorobenzene	18.41	146	444520	50.98	ug\L	100
81)	n-Butylbenzene	18.46	91	854721	53.00	ug\L	95
82)	1,2-Dibromo-3-chloropropan	19.85	75	78505	50.37	ug\L	93
83)	1,2,4-trichlorobenzene	21.38	180	413262	50.02	ug\L	100
84)	Hexachlorobutadiene	21.75	225	327546	49.36	ug\L	100
85)	Naphthalene	21.82	128	563393	51.24	ug\L	100
86)	1,2,3-Trichlorobenzene	22.26	180	367946	49.27	ug\L	98

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

Quantitation Report

Data File : C:\HPCHEM\1\DATA\032300\A23452.D Vial: 4
Acq On : 23 Mar 2000 11:02 am Operator: KJ,TAG
Sample : WATER BLANK SPIKE DUP. 5ml DF=1 Inst : GC/MS Ins
Misc : QC Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Mar 23 11:27 2000 Quant Results File: 032300W.RES

Method : C:\HPCHEM\1\DATA\032300\032300W.M (RTE Integrator)
Title : 8260 CALIBRATION FOR WATER 2/24/2000
Last Update : Wed Mar 08 23:04:31 2000
Response via : Initial Calibration



ACCURA ANALYTICAL LABORATORY, INC.

Environmental Analytical Services

Standard Name: BFB TUNE STD.
Lab Standard ID# V99050
Prepared By: KS

Date Made: 12/28/99
Expire Date: 07/01/2000
Matrix: MeOH

Standard	[illegible]	[illegible]	[illegible]	[illegible]
p-Bromofluorobenzene	V99-A011	25,000 ug/mL	1 uL	25 ppm
CH_3OH	V99-A013	100%	999 uL	—

KS 12/28/99

Standard Name: 8260 - CCS - A
Lab Standard ID# V99051
Prepared By: TAG

Date Made: 1/3/2000
Expire Date: 5/1/2000
Matrix: MeOH

Standard	[illegible]	[illegible]	[illegible]	[illegible]
M-502-10X	V99-A008	2000 ug/ml	25 ul	50 ug/ml
M-8240C-R3-10X	V99-A004	VARIOUS	↓	VARIOUS
S-078-10X	V00-A001	2000 ug/ml	↓	50 ug/ml
2-NITROPROPANE	95-A501	↓	↓	↓
APP9-007-10X	V00-A002	1000 ug/ml	100 ul	100 ug/ml
APP9-008-10X	V99-A017	↓	↓	↓
CH_3OH	V99-A013	100%	700 ul	—

TAG 1/3/2000

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ACCURA ANALYTICAL LABORATORY, INC.

Environmental Analytical Services

TAG 1/19/2000

Standard Name: 8260-5S
Lab Standard ID# V00004
Prepared By: TAG

Date Made: 01/19/2000
Expire Date: 11/1/2000
Matrix: CH_3OH

CLP-PS-10X	V99-A030	4500ug/ml	20ul	50ug/ml
CH_3OH	V99-A013	100%	980ul	—

TAG 1/19/2000

Standard Name: CLP-CCS
Lab Standard ID# V00005
Prepared By: TAG

Date Made: 1/24/2000
Expire Date: 1/31/2000
Matrix: CH_3OH

TCL VOLATILES mix1	V99-A019	2000ug/ml	25ul	50ug/ml
TCL VOLATILES mix2	V99-A020	↓	↓	↓
TCL VOLATILES mix3	V99-A021			
TCL VOLATILES mix4	V99-A022			
TCL VOLATILES mix5	V99-A023			
EPA CLP SOW OLM4 VOLATILES	V99-A025	↓	↓	
CARBON DISULFIDE	V99-A024	5000ug/ml	10ul	↓
CH_3OH	V99-A013	100%	840ul	—

TAG 1/24/2000

ACCURA ANALYTICAL LABORATORY, INC.

Environmental Analytical Services

Standard Name: 8260 - CCS-A
Lab Standard ID# V00010
Prepared By: TMG

Date Made: 1/28/2000
Expire Date: 5/1/2000
Matrix: CH_3OH

M-8502 -10X	V99-A008	2000 ug/ml	25 ul	50 ug/ml
M-8240C - R3-10X	V99-A004	VARIOUS	↓	VARIOUS
S-078-10X	V00-A001	2000 ug/ml		50 ug/ml
2-NITROPROPANE	95-A501	↓	↓	↓
APP9-007-10X	V00-A002	1000 ug/ml	100 ul	100 ug/ml
APP9-008-10X	V99-A017	↓	↓	↓
CH_3OH	V99-A029	100%	700 ul	—

TMG
1/28/2000

Standard Name: 8260-IS
Lab Standard ID# V00011
Prepared By: TMG

Date Made: 1/28/2000
Expire Date: 10/26/2000
Matrix: CH_3OH

8260 INTERNAL STD	V99-A002	2500 ug/ml	20 ul	50 ug/ml
CH_3OH	V99-A029	100%	80 ul	—

TMG
1/28/2000

ACCURA ANALYTICAL LABORATORY, INC.

Environmental Analytical Services

Standard Name: 8260-CCS-A
Lab Standard ID# V00018
Prepared By: MG

Date Made: 2/25/2000
Expire Date: 5/1/2000
Matrix: CH_3OH

M-502-10X	V99-A008	2000 ug/ml	25ul	50ug/ml
M-8240C-R3-10X	V00-A006	VARIOUS	↓	↓
S-078-10X	V00-A001	2000 ug/ml	↓	↓
2-Nitropropane	V00-A007	↓	↓	↓
APP9-007-10X	V00-A002	1000 ug/ml	100ul	100 ug/ml
APP9-008-10X	V99-A005	↓	↓	↓
CH_3OH	V99-AC29	100%	700ul	—

MC
2/25/2000

Standard Name: 8260-CCS-B
Lab Standard ID# V00019
Prepared By: MG

Date Made: 3/7/2000
Expire Date: 5/1/2000
Matrix: CH_3OH

M-502-10X	V99-A007	2000 ug/ml	25ul	50 ug/ml
M-8240C-R3-10X	V00-A006	VARIOUS	VARIOUS	↓
S-078-10X	V00-A001	2000 ug/ml	25ul	↓
2-Nitropropane	V00-A007	↓	↓	↓
App9-007-10X	V00-A002	1000 ug/ml	100ul	100 ug/ml
App9-008-10X	V99-A005	↓	↓	↓
CH_3OH	V99-AC29	100%	700ul	—

MG
3/7/2000

ACCURA ANALYTICAL LABORATORY, INC.

Environmental Analytical Services

Standard Name: 8260-AOO
Lab Standard ID# V00020
Prepared By: TAG

Date Made: 3/20/2000
Expire Date: 6/3/2000
Matrix: CH3OH

Standard				
M-8260-AOO-10X	VOO-AOO3	2000ug/ml	25ml	50ug/ml
CH3OH	V99-AO29	100%	975ml	—

JAG
3/20/2000

Standard Name: _____
Lab Standard ID# _____
Prepared By: _____

Date Made: _____
Expire Date: _____
Matrix: _____

Standard				

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GC/MS VOLATILE INSTRUMENT RUNLOG

Inst #1

Date: 3/23/00
Analyst(s): WS
Calib. File: [illegible]
Quant ID File: [illegible]

BFB Standard Lot #: V99050
Surrogate Standard Lot #: V00004
Internal Standard lot #: [illegible]
Calib.Standard Lot #: [illegible]

GC Conditions
BFB: 80°C-10°C/10min-155°C
Samples: 40°C(4m)-8°C/min-180°C(2m)

	CCV IS RT	CV IS Areas
#1	[illegible]	69456
#2	[illegible]	557702
#3	[illegible]	357432

Surrogate Limits

DCE	TOL-d	BFB
[illegible]	[illegible]	[illegible]

MS Conditions
EM: 1506
Tune File: BFB01.m
Scan File: 1.00min

File Name	Project ID	Lab Sample ID	Matrix	Volume	DF	ALS	pH	-Cl	IS	SS	Comments
A 23447	GC	BFB-50ng	CH_3OH	2ml	–	–	–	–	–	–	8:11 a.m.
A 23448		CCV-50ccb	W	5mL	1x	1	–	–	✓	✓	
A 23449		WATER BLANK				2	–	–	✓	✓	RI
A 23450		WATER BLANK				2	–	–	✓	✓	
A 23451		WATER BLANK SPIKE				3	–	–	✓	✓	
A 23452		WATER BLANK SPIKE DUP.				4	–	–	✓	✓	
A 23453	23975	AB89497				5	-2.0	X	✓	✓	
A 23454		AB89498				6		X	✓	✓	~~RI~~ WS 3/23/00
A 23455		AB89499				7		X	✓	✓	
A 23456		AB89500				8		X	✓	✓	NDIL
A 23457		AB89501				10 ~~9~~	-5.0	X	✓	1H	MI WS 3/23/00
A 23458		AB89502				11	-2.0	X	✓	✓	
A 23459		AB89503				12		X	✓	✓	
A 23460		AB89504				13		X	✓	✓	
A 23461		AB89505				14		X	✓	✓	
A 23462		AB89506				15		X	✓	✓	
A 23463		AB89507				16		X	✓	✓	NDIL
A 23464	23975	AB89508	W	5mL	1x	1	-2.0	X	✓	✓	
A 23465		AB89509				2		X	✓	✓	
A 23466		AB89497ms				3		X	✓	✓	
A 23467		AB89497msd				4		X	✓	✓	
A 23468		AB89510				5		X	✓	✓	
A 23469		AB89511				6		X	✓	✓	8:06 a.m. ✓
A											
A											
A											

Note NDIL=Need Dilution NRI=Needs Reinjection MI=Matrix Interferences NC=Needs Concentrated

WS 3/24/00

Sign/Date: WS 3/24/00

GC/MS VOLATILE INSTRUMENT RUNLOG

Inst #1

Date: 3/24/00
Analyst(s): ✓
Calib. File: 0308000.m
Quant ID File: 0324000.m

BFB Standard Lot #: V99050
Surrogate Standard Lot #: V00004
Internal Standard lot #: V00011
Calib.Standard Lot #: V00015, V00020

GC Conditions
BFB: 80°C-10°C/10min-155°C
Samples: 40°C(4m)-8°C/min-180°C(2m)

	CCV IS RT	CV IS Areas
#1	704	708666
#2	1349	504863
#3	1772	345474

Surrogate Limits

DCE	TOL-d	BFB
80-120	87-104	84-110

MS Conditions
EM: 1506
Tune File: BFB01.m
Scan File: 1.00min

File Name	Project ID	Lab Sample ID	Matrix	Volume	DF	ALS	pH	-Cl	IS	SS	Comments
A 23470	GC	BFB-50ng	CH_3OH	2uL	—	—	—	—	—	—	10:10 a.m.
A 23471	↓	CCV-50ppb	W	5mL	1x	1	—	—	✓	✓	RI
A 23472	↓	CCV-50ppb	↓	↓	↓	2	—	—	✓	✓	
A 23473	↓	WATER BLANK	↓	↓	↓	2	—	—	✓	✓	RI
A 23474	↓	WATER BLANK	↓	↓	↓	2	—	—	✓	✓	
A 23475	↓	WATER BLANK SPIKE	↓	↓	↓	3	—	—	✓	✓	
A 23476	23975	AB89512	↓	↓	↓	4	2.0	X	✓	✓	
A 23477	↓	AB89512ms	↓	↓	↓	5	↓	X	✓	✓	
A 23478	↓	AB89512msd	↓	↓	↓	6	↓	X	✓	✓	
A 23479	↓	AB89513	↓	↓	↓	7	↓	X	✓	✓	
A 23480	↓	AB89514	↓	↓	↓	8	↓	X	✓	✓	RI
A 23481	↓	AB89500	↓	0.5mL	10x	10	↓	X	✓	✓	
A 23482	↓	AB89507	↓	↓		11	↓	X	✓	✓	
A 23483	24009	AB89716	↓	5mL	1x	12	↓	X	✓	✓	6.01 p.m. ✓
A											
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A											

Note: NDIL=Need Dilution NRI=Needs Reinjection MI=Matrix Interferences NC=Needs Concentrated

JCO 3/27/00

Sign/Date: JW 3/27/00

Accura Analytical Laboratory
GC/MS VOLATILE INSTRUMENT C RUNLOG

Date: [illegible]
Analyst(s): [illegible]
Calib. File [illegible]
ant ID File: [illegible]

BFB Standard Lot #: [illegible]
Surrogate Standard Lot #: [illegible]
Internal Standard lot #: [illegible]
Calib.Standard Lot #: [illegible]

GC Conditions
BFB: 80°C-10°C/10min-155°C
Samples: 40°C(4m)-8°C/min-180°C(2m)

CCV IS RT	CV IS Areas
[illegible]	[illegible]
[illegible]	[illegible]
[illegible]	[illegible]

Surrogate Limits

DCE	TOL-d8	BFB
[illegible]	57-104	54-110

MS Conditions
EM: 1647
Tune File: BFBC1.m
Scan File: 1.00min

File Name	Project ID	Lab Sam. ID	Client Sam. ID	Matrix	Volume	DF	ALS #	pH	-Cl	IS	SS	Comments
C [illegible]	[illegible]	BFB-50ng	—	[illegible]	2uL	—	—	—	—	—	—	[illegible]
C [illegible]	↓	[illegible]	—	W	5mL	1x	1	—	—	✓	✓	
C [illegible]	↓	WATER BLANK	—	↓	↓	↓	2	—	—	✓	✓	
C 14156	↓	WATER BLANK SPIKE	—	↓	↓	↓	3	—	—	✓	✓	
C 14157	[illegible]	AB89514	—	↓	↓	↓	4	2.0	X	✓	✓	
C 14158	[illegible]	AB89692	—	↓	↓	↓	5	↓	X	✓	✓	
C 14159	↓	AB89693	—	↓	↓	↓	6	↓	X	✓	✓	
C 14160	↓	AB89693ms	—	↓	↓	↓	7	↓	X	✓	✓	
C 14161	↓	AB89693msd	—	↓	↓	↓	8	↓	X	✓	✓	
C 14162	↓	AB89694	—	↓	↓	↓	9	↓	X	✓	✓	
C 14163	↓	AB89695	—	↓	↓	↓	10	↓	X	✓	✓	
C 14164	↓	AB89696	—	↓	↓	↓	11	↓	X	✓	✓	
C 14165	↓	AB89697	—	↓	↓	↓	12	↓	X	✓	✓	RI
C 14166	↓	AB89698	—	↓	↓	↓	14	↓	X	✓	✓	
C 14167	24007	AB89706	—	↓	↓	↓	15	↓	X	✓	✓	NDIL
C 14168	↓	AB89707	—	↓	↓	↓	16	↓	X	✓	✓	NDIL
C 14169	24007	AB89708	—	W	5mL	1x	1	2.0	X	✓	✓	
C 14170	↓	AB89709	—	↓	↓	↓	2	↓	X	✓	✓	
C 14171	24008	AB89711	—	↓	↓	↓	3	↓	X	✓	✓	
C 14172	↓	AB89712	—	↓	↓	↓	4	↓	X	✓	✓	
C 14173	24003	AB89697	—	↓	↓	↓	5	↓	X	✓	✓	
C 14174	24010	AB89746	—	↓	↓	↓	6	↓	X	✓	✓	RI
C												
C												
C												
C												

Note: NDIL=Need Dilution NRI=Needs Reinjection MI=Matrix Interferences NC=Needs Concentrated

WG 3/28/00

Sign/Date: WG 3/28/00

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\032300\A23453.D
Acq On : 23 Mar 2000 11:34 am
Sample : AB89497 5ml DF=1
Misc : 23975/A032100W
MS Integration Params: rteint.p
Quant Time: Mar 23 13:00 2000

Vial: 5
Operator: KJ,TAG
Inst : GC/MS Ins
Multiplr: 1.00

Quant Results File: 032300W.RES

Quant Method : C:\HPCHEM\1\DATA\032300\032300W.M (RTE Integrator)
Title : 8260 CALIBRATION FOR WATER 2/24/2000
Last Update : Mon Mar 13 09:17:29 2000
Response via : Initial Calibration
DataAcq Meth : 032300W

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.01	168	563753	50.00	ug\L	-0.03
45) Chlorobenzene-d5	13.48	117	532850	50.00	ug\L	0.00
61) 1,4-Dichlorobenzene-d4	17.71	152	336084	50.00	ug\L	-0.02
System Monitoring Compounds						
32) 1,2-Dichloroethane-d4	7.46	65	234027	51.61	ug\L	-0.02
Spiked Amount 50.000	Range 80 - 120		Recovery = 103.22%			
46) Toluene-d8	10.91	98	594405	47.86	ug\L	-0.02
Spiked Amount 50.000	Range 87 - 104		Recovery = 95.72%			
65) Bromofluorobenzene	15.62	95	444677	52.49	ug\L	0.00
Spiked Amount 50.000	Range 84 - 110		Recovery = 104.98%			
Target Compounds						Qvalue
3) Chloromethane	1.89	50	2422	1.06	ug\L #	59
5) Bromomethane	2.43	94	464	-6.77	ug\L	88
9) Acrylonitrile	4.19	53	588	~~1.05~~	ug\L #	69
11) Acetone	3.34	58	3981	8.34	ug\L not on list	91
13) Allylchloride	3.50	76	105817	~~74.08~~	ug\L #	1
14) Carbon Disulfide	3.50	76	105817	14.84	ug\L not on list	98
15) Acetonitrile	3.66	41	1815	~~3.48~~	ug\L #	19
16) Methylene Chloride	3.86	84	6238	2.02	ug\L #	63
23) 2-Butanone	6.05	72	450	~~1.16~~	ug\L #	1
24) Propionitrile	6.16	54	1698	~~7.94~~	ug\L #	64
25) Methacrylonitrile	6.42	41	14638	12.51	ug\L # not on list	89
29) Carbon Tetrachloride	7.01	117	60378	~~9.66~~	ug\L #	4
30) 1,4-Dioxane	9.49	88	314	~~-16.22~~	ug\L #	44
31) 1,1-Dichloropropene	7.00	75	48228	~~8.57~~	ug\L #	48
34) Isobutyl alcohol	7.67	43	2878	~~99.03~~	ug\L #	24
39) Methylmethacrylate	9.46	69	2326	1.11	ug\L # not on list	78
47) Toluene	11.05	92	7879	1.05	ug\L	99
64) 1,4-dichloro-2-Butene	15.51	53	157	~~9.86~~	ug\L #	1
67) 1,1,2,2-Tetrachloroethane	15.94	83	5686	~~1.00~~	ug\L #	95
68) 1,2,3-Trichloropropane	15.62	75	233011	~~46.35~~	ug\L #	100
82) 1,2-Dibromo-3-chloropropan	19.86	75	2180	1.41	ug\L #	66
83) 1,2,4-trichlorobenzene	21.40	180	19433	2.37	ug\L	100
84) Hexachlorobutadiene	21.76	225	8325	1.26	ug\L	100
85) Naphthalene	21.82	128	64497	3.45	ug\L	100
86) 1,2,3-Trichlorobenzene	22.26	180	21375	2.89	ug\L	99

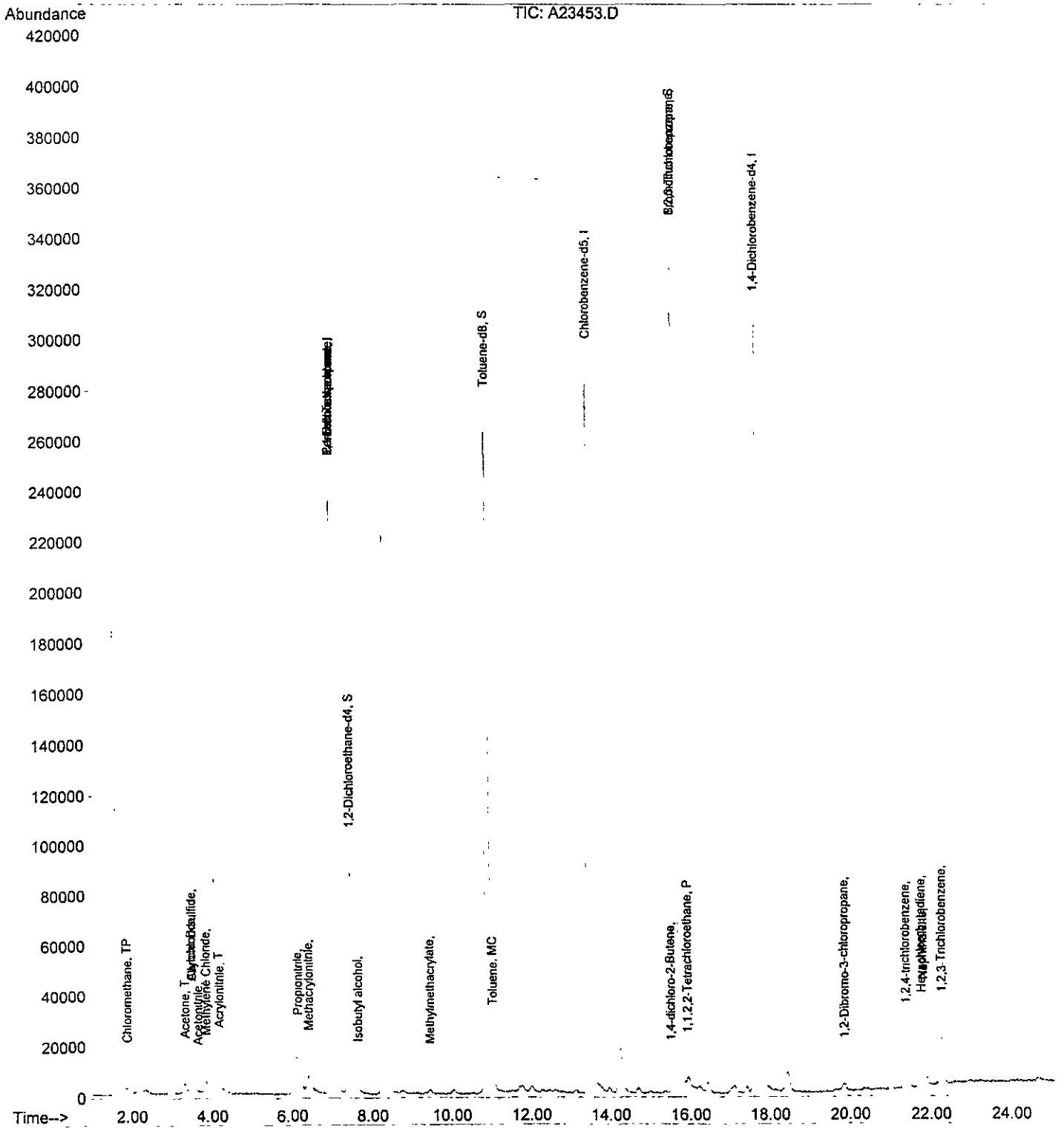
KJ 3/23/00

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

Quantitation Report

Data File : C:\HPCHEM\1\DATA\032300\A23453.D Vial: 5
Acq On : 23 Mar 2000 11:34 am Operator: KJ,TAG
Sample : AB89497 5ml DF=1 Inst : GC/MS Ins
Misc : 23975/A032100W Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Mar 23 13:00 2000 Quant Results File: 032300W.RES

Method : C:\HPCHEM\1\DATA\032300\032300W.M (RTE Integrator)
Title : 8260 CALIBRATION FOR WATER 2/24/2000
Last Update : Wed Mar 08 23:04:31 2000
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\032300\A23454.D Vial: 6
Acq On : 23 Mar 2000 12:07 pm Operator: KJ,TAG
Sample : AB89498 5ml DF=1 Inst : GC/MS Ins
Misc : 23975/A032100W Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Mar 23 12:32 2000 Quant Results File: 032300W.RES

Quant Method : C:\HPCHEM\1\DATA\032300\032300W.M (RTE Integrator)
Title : 8260 CALIBRATION FOR WATER 2/24/2000
Last Update : Mon Mar 13 09:17:29 2000
Response via : Initial Calibration
DataAcq Meth : 032300W

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Pentafluorobenzene	7.01	168	574237	50.00 ug\L	-0.03
45) Chlorobenzene-d5	13.48	117	535512	50.00 ug\L	-0.01
61) 1,4-Dichlorobenzene-d4	17.72	152	346158	50.00 ug\L	-0.01
System Monitoring Compounds					
32) 1,2-Dichloroethane-d4	7.46	65	244296	52.89 ug\L	-0.02
Spiked Amount 50.000	Range 80 - 120		Recovery = 105.78%		
46) Toluene-d8	10.92	98	616156	49.36 ug\L	0.00
Spiked Amount 50.000	Range 87 - 104		Recovery = 98.72%		
65) Bromofluorobenzene	15.62	95	446911	51.22 ug\L	-0.01
Spiked Amount 50.000	Range 84 - 110		Recovery = 102.44%		
Target Compounds					Qvalue
5) Bromomethane	2.33	94	1713	~~-5.89 ug\L~~	95
6) Chloroethane	2.41	64	552	~~-23.16 ug\L~~ #	40 not on list
11) Acetone	3.32	58	181433	999.27 ug\L	~~possible 99~~
12) Iodomethane	3.47	142	5259	~~1.00 ug\L~~ #	49
13) Allylchloride	3.49	76	83609	~~57.46 ug\L~~ #	1
14) Carbon Disulfide	3.49	76	83609	11.51 ug\L	not on 99 list
15) Acetonitrile	3.54	41	50835	~~95.65 ug\L~~ #	63
23) 2-Butanone	6.04	72	427	~~-1.27 ug\L~~ #	56
29) Carbon Tetrachloride	7.01	117	59589	~~9.36 ug\L~~ #	5
30) 1,4-Dioxane	9.41	88	80	~~-25.78 ug\L~~ #	17
31) 1,1-Dichloropropene	7.00	75	48406	~~8.44 ug\L~~ #	47
34) Isobutyl alcohol	7.62	43	29027	425.98 ug\L #	not on 73 list
36) Trichloroethene	8.30	95	15080	~~2.74 ug\L~~ #	3
68) 1,2,3-Trichloropropane	15.61	75	237109	~~45.79 ug\L~~ #	100
75) 1,2,4-Trimethylbenzene	17.12	105	30248	1.94 ug\L #	83
78) Isopropyltoluene	17.73	119	90798	5.24 ug\L	98
83) 1,2,4-trichlorobenzene	21.39	180	14290	1.69 ug\L	100
85) Naphthalene	21.82	128	69307	3.72 ug\L	100
86) 1,2,3-Trichlorobenzene	22.27	180	7974	1.05 ug\L #	81

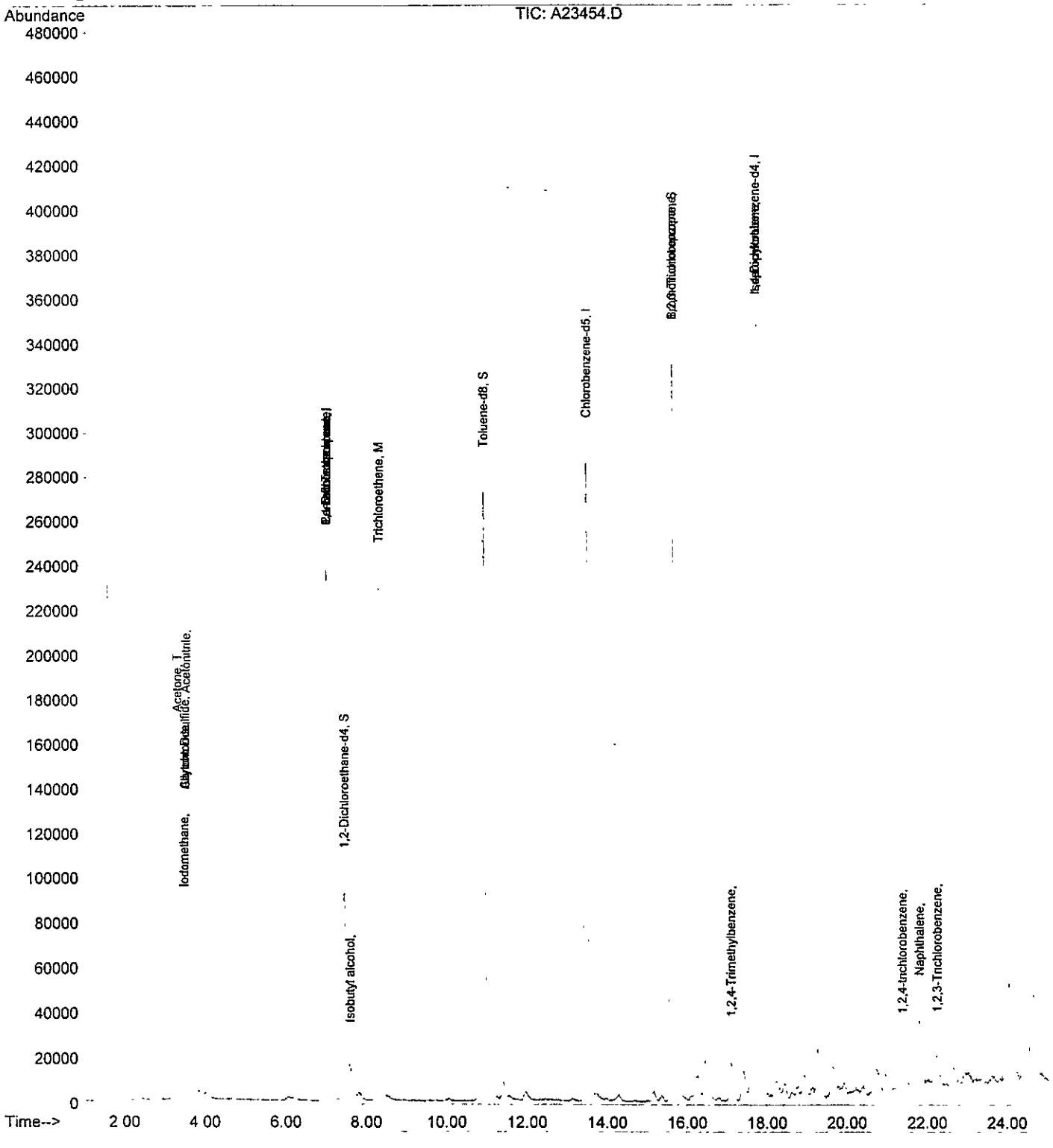
MS 3/23/00

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

Quantitation Report

Data File : C:\HPCHEM\1\DATA\032300\A23454.D Vial: 6
Acq On : 23 Mar 2000 12:07 pm Operator: KJ,TAG
Sample : AB89498 5ml DF=1 Inst : GC/MS Ins
Misc : 23975/A032100W Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Mar 23 12:32 2000 Quant Results File: 032300W.RES

Method : C:\HPCHEM\1\DATA\032300\032300W.M (RTE Integrator)
Title : 8260 CALIBRATION FOR WATER 2/24/2000
Last Update : Wed Mar 08 23:04:31 2000
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\032300\A23455.D
Acq On : 23 Mar 2000 12:39 pm
Sample : AB89499 5ml DF=1
Misc : 23975/A032100W
MS Integration Params: rteint.p
Quant Time: Mar 23 13:04 2000

Vial: 7
Operator: KJ,TAG
Inst : GC/MS Ins
Multiplr: 1.00

Quant Results File: 032300W.RES

Quant Method : C:\HPCHEM\1\DATA\032300\032300W.M (RTE Integrator)
Title : 8260 CALIBRATION FOR WATER 2/24/2000
Last Update : Mon Mar 13 09:17:29 2000
Response via : Initial Calibration
DataAcq Meth : 032300W

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Pentafluorobenzene	7.01	168	521346	50.00 ug\L	-0.03
45) Chlorobenzene-d5	13.48	117	470112	50.00 ug\L	0.00
61) 1,4-Dichlorobenzene-d4	17.71	152	307576	50.00 ug\L	-0.02
System Monitoring Compounds					
32) 1,2-Dichloroethane-d4	7.45	65	227343	54.21 ug\L	-0.03
Spiked Amount 50.000	Range 80 - 120		Recovery = 108.42%		
46) Toluene-d8	10.91	98	558771	50.99 ug\L	-0.02
Spiked Amount 50.000	Range 87 - 104		Recovery = 101.98%		
65) Bromofluorobenzene	15.63	95	406000	52.36 ug\L	0.00
Spiked Amount 50.000	Range 84 - 110		Recovery = 104.72%		
Target Compounds					Qvalue
3) Chloromethane	1.95	50	7414	~~3.50 ug\L~~ #	42
5) Bromomethane	2.54	94	144	~~-6.99 ug\L~~	95
6) Chloroethane	2.66	64	7143	~~-12.86 ug\L~~ #	51
11) Acetone	3.33	58	5582	20.04 ug\L not on list	95
13) Allylchloride	3.65	76	15438	~~11.69 ug\L~~ #	1
14) Carbon Disulfide	3.51	76	152295	23.09 ug\L not on list	99
29) Carbon Tetrachloride	7.00	117	54287	~~9.39 ug\L~~ #	7
31) 1,1-Dichloropropene	7.01	75	45350	~~8.71 ug\L~~ #	48
34) Isobutyl alcohol	7.65	43	241	~~65.63 ug\L~~ #	28
36) Trichloroethene	8.32	95	13875	~~2.77 ug\L~~ #	3
47) Toluene	11.05	92	9516	1.43 ug\L	97
58) Ethylbenzene	13.76	91	51028	3.66 ug\L	98
63) Isopropylbenzene	15.37	105	70146	4.57 ug\L	96
64) 1,4-dichloro-2-Butene	15.48	53	265	~~9.98 ug\L~~ #	1
67) 1,1,2,2-Tetrachloroethane	15.91	83	9549	~~1.84 ug\L~~ #	32
68) 1,2,3-Trichloropropane	15.63	75	217104	~~47.19 ug\L~~ #	100
69) n-Propylbenzene	16.12	91	74883	4.18 ug\L	94
70) 2-Chlorotoluene	16.12	91	74883	~~6.89 ug\L~~ #	50
71) 4-Chlorotoluene	16.44	91	34119	~~2.37 ug\L~~ #	48
72) 1,3,5-Trimethylbenzene	16.46	105	270993	20.03 ug\L	97
74) tert-Butylbenzene	17.12	119	85570	~~5.28 ug\L~~ #	53
75) 1,2,4-Trimethylbenzene	17.12	105	724733	52.41 ug\L #	85
76) sec-Butylbenzene	17.44	105	40371	2.18 ug\L	95
78) Isopropyltoluene	17.72	119	183585	11.92 ug\L	97
81) n-Butylbenzene	18.45	91	93357	~~6.38 ug\L~~ #	1
85) Naphthalene	21.82	128	186378	16.91 ug\L	100

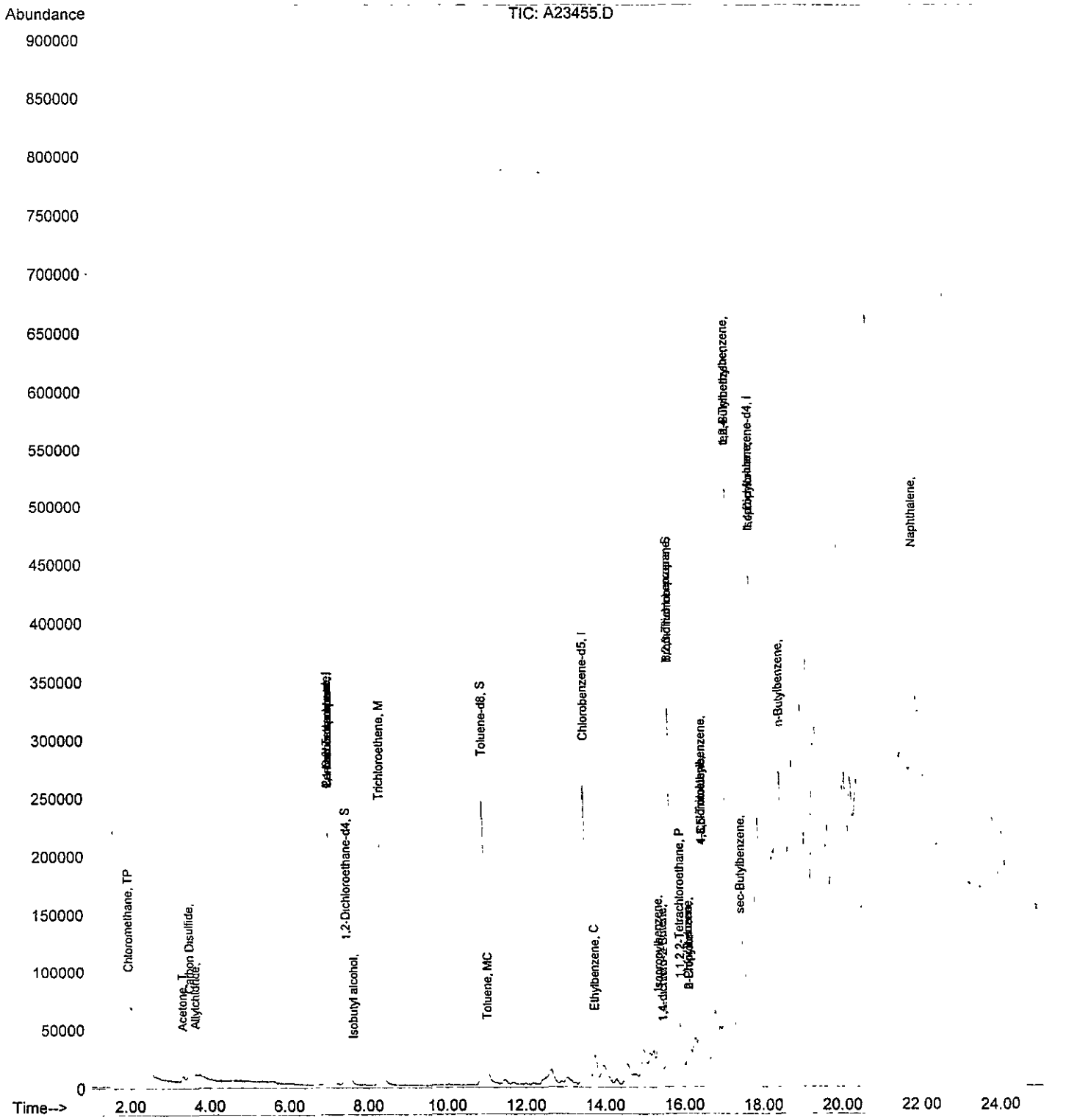
MT 3/23/00

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

Quantitation Report

Data File : C:\HPCHEM\1\DATA\032300\A23455.D Vial: 7
Acq On : 23 Mar 2000 12:39 pm Operator: KJ,TAG
Sample : AB89499 5ml DF=1 Inst : GC/MS Ins
Misc : 23975/A032100W Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Mar 23 13:04 2000 Quant Results File: 032300W.RES

Method : C:\HPCHEM\1\DATA\032300\032300W.M (RTE Integrator)
Title : 8260 CALIBRATION FOR WATER 2/24/2000
Last Update : Wed Mar 08 23:04:31 2000
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\032300\A23456.D
Acq On : 23 Mar 2000 1:11 pm
Sample : AB89500 5ml DF=1
Misc : 23975/A032100W
MS Integration Params: rteint.p
Quant Time: Mar 23 13:36 2000

Vial: 8
Operator: KJ,TAG
Inst : GC/MS Ins
Multiplr: 1.00

Quant Results File: 032300W.RES

Quant Method : C:\HPCHEM\1\DATA\032300\032300W.M (RTE Integrator)
Title : 8260 CALIBRATION FOR WATER 2/24/2000
Last Update : Mon Mar 13 09:17:29 2000
Response via : Initial Calibration
DataAcq Meth : 032300W

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Pentafluorobenzene	7.01	168	539132	50.00	ug\L		-0.03
45) Chlorobenzene-d5	13.48	117	494217	50.00	ug\L		0.00
61) 1,4-Dichlorobenzene-d4	17.73	152	292888	50.00	ug\L		0.00
System Monitoring Compounds							
32) 1,2-Dichloroethane-d4	7.45	65	242180	55.85	ug\L		-0.03
Spiked Amount 50.000	Range 80 - 120		Recovery = 111.70%				
46) Toluene-d8	10.92	98	580094	50.35	ug\L		0.00
Spiked Amount 50.000	Range 87 - 104		Recovery = 100.70%				
65) Bromofluorobenzene	15.62	95	396786	53.74	ug\L		0.00
Spiked Amount 50.000	Range 84 - 110		Recovery = 107.48%				
Target Compounds							Qvalue
5) Bromomethane	2.31	94	293	-6.88	ug\L	#	1
6) Chloroethane	2.41	64	2153	-20.71	ug\L	#	40
11) Acetone	3.31	58	895	-8.99	ug\L	#	1
13) Allylchloride	3.50	76	110081	80.58	ug\L	#	1
14) Carbon Disulfide	3.50	76	110081	16.14	ug\L		100
18) MethylTertButylEther	4.27	73	15060	2.00	ug\L	#	82
23) 2-Butanone	6.03	72	63	-2.53	ug\L	#	1
29) Carbon Tetrachloride	7.00	117	56625	9.47	ug\L	#	4
31) 1,1-Dichloropropene	7.00	75	46556	8.65	ug\L	#	45
33) Benzene	7.54	78	25888	2.81	ug\L		100
34) Isobutyl alcohol	7.83	43	10739	205.61	ug\L	#	36
36) Trichloroethene	8.31	95	13901	2.69	ug\L	#	3
41) 2-Nitropropane	12.20	43	65157	36.08	ug\L	#	35
44) 4-Methyl-2-Pentanone	10.55	85	10682	22.68	ug\L	#	1
53) 2-Hexanone	12.20	43	65157	32.95	ug\L	#	26
58) Ethylbenzene	13.76	91	1269171	86.58	ug\L		99
59) total-Xylene	13.98	106	1496220	279.75	ug\L		95
63) Isopropylbenzene	15.37	105	629864	43.09	ug\L		98
64) 1,4-dichloro-2-Butene	15.56	53	2264	12.17	ug\L	#	1
67) 1,1,2,2-Tetrachloroethane	15.91	83	131245	26.57	ug\L	#	57
68) 1,2,3-Trichloropropane	16.32	75	45963	10.49	ug\L	#	100
69) n-Propylbenzene	16.13	91	926033	54.33	ug\L		95
70) 2-Chlorotoluene	16.31	91	385095	37.19	ug\L	#	32
71) 4-Chlorotoluene	16.46	91	210765	15.39	ug\L	#	45
72) 1,3,5-Trimethylbenzene	16.47	105	1702535	132.18	ug\L		99
74) tert-Butylbenzene	17.14	119	683695	44.30	ug\L	#	53
75) 1,2,4-Trimethylbenzene	17.14	105	5866500	445.50	ug\L	#	85

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

Data File : C:\HPCHEM\1\DATA\032300\A23456.D
Acq On : 23 Mar 2000 1:11 pm
Sample : AB89500 5ml DF=1
Misc : 23975/A032100W
MS Integration Params: rteint.p
Quant Time: Mar 23 13:36 2000

Vial: 8
Operator: KJ,TAG
Inst : GC/MS Ins
Multiplr: 1.00

Quant Results File: 032300W.RES

Quant Method : C:\HPCHEM\1\DATA\032300\032300W.M (RTE Integrator)
Title : 8260 CALIBRATION FOR WATER 2/24/2000
Last Update : Mon Mar 13 09:17:29 2000
Response via : Initial Calibration
DataAcq Meth : 032300W

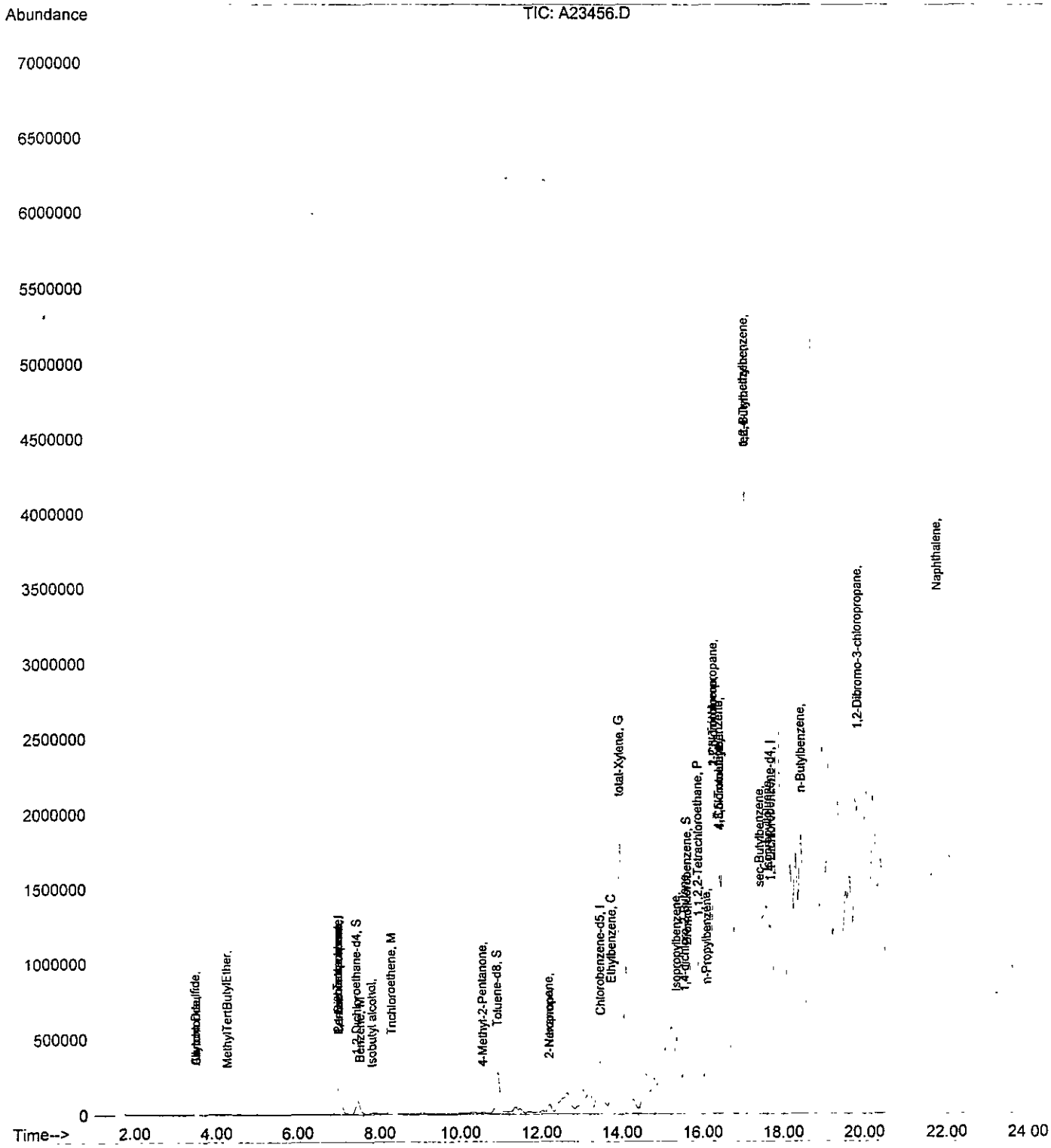
Compound	R.T.	QIon	Response	Conc Unit	Qvalue
76) sec-Butylbenzene	17.44	105	709738	40.33 ug\L	93
78) Isopropyltoluene	17.66	119	1302299	88.77 ug\L	99
81) n-Butylbenzene	18.48	91	889661	63.83 ug\L #	5
82) 1,2-Dibromo-3-chloropropan	19.88	75	4413	3.28 ug\L #	9
85) Naphthalene	21.83	128	1946836	213.20 ug\L	100

MS 3/24/00

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

Data File : C:\HPCHEM\1\DATA\032300\A23456.D Vial: 8
Acq On : 23 Mar 2000 1:11 pm Operator: KJ,TAG
Sample : AB89500 5ml DF=1 Inst : GC/MS Ins
Misc : 23975/A032100W Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Mar 23 13:36 2000 Quant Results File: 032300W.RES

Method : C:\HPCHEM\1\DATA\032300\032300W.M (RTE Integrator)
Title : 8260 CALIBRATION FOR WATER 2/24/2000
Last Update : Wed Mar 08 23:04:31 2000
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\032400\A23481.D Vial: 10
Acq On : 24 Mar 2000 4:57 pm Operator: KJ,TAG
Sample : AB89500 0.5ml DF=10 Inst : GC/MS Ins
Misc : 23975/A032300W Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Mar 24 17:22 2000 Quant Results File: 032400W.RES

Quant Method : C:\HPCHEM\1\DATA\032400\032400W.M (RTE Integrator)
Title : 8260 CALIBRATION FOR WATER 2/24/2000
Last Update : Mon Mar 13 09:17:29 2000
Response via : Initial Calibration
DataAcq Meth : 032400W

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.01	168	572241	50.00	ug\L	-0.03
45) Chlorobenzene-d5	13.49	117	509035	50.00	ug\L	0.00
61) 1,4-Dichlorobenzene-d4	17.72	152	319091	50.00	ug\L	0.00
System Monitoring Compounds						
32) 1,2-Dichloroethane-d4	7.46	65	251598	54.66	ug\L	-0.02
Spiked Amount 50.000	Range 80 - 120		Recovery = 109.32%			
46) Toluene-d8	10.93	98	596283	50.25	ug\L	0.00
Spiked Amount 50.000	Range 87 - 104		Recovery = 100.50%			
65) Bromofluorobenzene	15.63	95	419345	52.13	ug\L	0.00
Spiked Amount 50.000	Range 84 - 110		Recovery = 104.26%			
Target Compounds						Qvalue
5) Bromomethane	2.31	94	2609	-5.26	ug\L	85
11) Acetone	3.31	58	240	-12.97	ug\L #	1
13) Allylchloride	3.49	76	5287	3.65	ug\L #	1
15) Acetonitrile	3.83	41	650	1.23	ug\L #	34
16) Methylene Chloride	3.85	84	13409	4.28	ug\L	97
29) Carbon Tetrachloride	7.01	117	61389	9.68	ug\L #	6
30) 1,4-Dioxane	9.01	88	60	-26.57	ug\L #	1
31) 1,1-Dichloropropene	7.01	75	50631	8.86	ug\L #	49
34) Isobutyl alcohol	7.65	43	60	63.06	ug\L #	49
36) Trichloroethene	8.32	95	16274	2.97	ug\L #	3
41) 2-Nitropropane	12.21	43	2786	1.45	ug\L	93
58) Ethylbenzene	13.77	91	128694	8.52	ug\L	98
59) total-Xylene	13.99	106	155520	28.23	ug\L	98
63) Isopropylbenzene	15.38	105	56489	3.55	ug\L	97
64) 1,4-dichloro-2-Butene	15.49	53	91	9.80	ug\L #	1
67) 1,1,2,2-Tetrachloroethane	15.92	83	10567	1.96	ug\L #	31
68) 1,2,3-Trichloropropane	15.64	75	224962	47.13	ug\L #	100
69) n-Propylbenzene	16.13	91	81696	4.40	ug\L	91
70) 2-Chlorotoluene	16.31	91	36563	3.24	ug\L #	33
71) 4-Chlorotoluene	16.46	91	18965	1.27	ug\L #	46
72) 1,3,5-Trimethylbenzene	16.45	105	158905	11.32	ug\L	98
74) tert-Butylbenzene	17.14	119	69998	4.16	ug\L #	53
75) 1,2,4-Trimethylbenzene	17.13	105	594192	41.42	ug\L #	85
76) sec-Butylbenzene	17.44	105	43341	2.26	ug\L	91
81) n-Butylbenzene	18.46	91	48227	3.18	ug\L #	1
85) Naphthalene	21.81	128	217191	19.34	ug\L	100

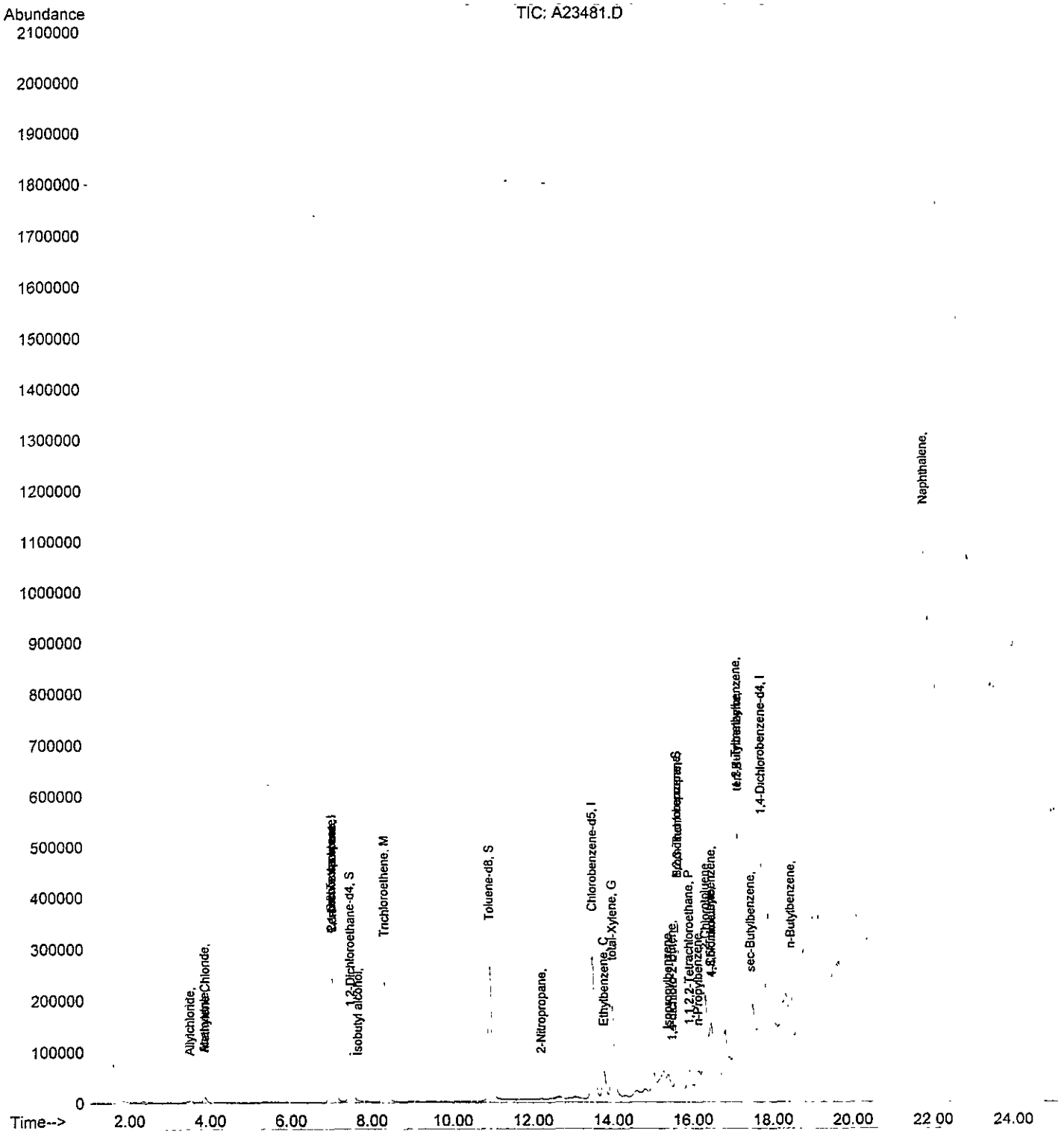
MS 5/27/00

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

Quantitation Report

Data File : C:\HPCHEM\1\DATA\032400\A23481.D Vial: 10
Acq On : 24 Mar 2000 4:57 pm Operator: KJ,TAG
Sample : AB89500 0.5ml DF=10 Inst : GC/MS Ins
Misc : 23975/A032300W Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Mar 24 17:22 2000 Quant Results File: 032400W.RES

Method : C:\HPCHEM\1\DATA\032400\032400W.M (RTE Integrator)
Title : 8260 CALIBRATION FOR WATER 2/24/2000
Last Update : Wed Mar 08 23:04:31 2000
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\032300\A23457.D Vial: 10
Acq On : 23 Mar 2000 1:43 pm Operator: KJ,TAG
Sample : AB89501 5ml DF=1 Inst : GC/MS Ins
Misc : 23975/A032100W Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Mar 23 14:08 2000 Quant Results File: 032300W.RES

Quant Method : C:\HPCHEM\1\DATA\032300\032300W.M (RTE Integrator)
Title : 8260 CALIBRATION FOR WATER 2/24/2000
Last Update : Mon Mar 13 09:17:29 2000
Response via : Initial Calibration
DataAcq Meth : 032300W

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Pentafluorobenzene	7.01	168	627086	50.00 ug\L	-0.03
45) Chlorobenzene-d5	13.49	117	535805	50.00 ug\L	0.00
61) 1,4-Dichlorobenzene-d4	17.74	152	287587	50.00 ug\L	0.00
System Monitoring Compounds					
32) 1,2-Dichloroethane-d4	7.46	65	252812	50.12 ug\L	-0.02
Spiked Amount 50.000	Range 80 - 120		Recovery = 100.24%		
46) Toluene-d8	10.92	98	614044	49.16 ug\L	0.00
Spiked Amount 50.000	Range 87 - 104		Recovery = 98.32%		
65) Bromofluorobenzene	15.63	95	440166	60.72 ug\L	0.00
Spiked Amount 50.000	Range 84 - 110		Recovery = 121.44%#		
Target Compounds					Qvalue
5) Bromomethane	2.32	94	1141	-6.36 ug\L #	65
6) Chloroethane	2.44	64	317	-23.53 ug\L #	40
11) Acetone	3.33	58	1923	-4.48 ug\L	81
13) Allylchloride	3.50	76	12027	7.57 ug\L #	1
14) Carbon Disulfide	3.50	76	12027	1.52 ug\L #	85
23) 2-Butanone	6.08	72	128	-2.35 ug\L #	72
29) Carbon Tetrachloride	7.01	117	66507	9.57 ug\L #	7
31) 1,1-Dichloropropene	7.01	75	55132	8.81 ug\L #	49
36) Trichloroethene	8.30	95	17117	2.85 ug\L #	3
41) 2-Nitropropane	12.02	43	23071	10.98 ug\L	100
53) 2-Hexanone	12.20	43	86824	40.50 ug\L #	25
63) Isopropylbenzene	15.38	105	15766	1.10 ug\L #	63
64) 1,4-dichloro-2-Butene	15.47	53	11924	22.91 ug\L #	1
67) 1,1,2,2-Tetrachloroethane	15.91	83	397279	81.92 ug\L #	30
68) 1,2,3-Trichloropropane	15.62	75	228256	53.06 ug\L #	100
75) 1,2,4-Trimethylbenzene	17.15	105	25877	2.00 ug\L #	58
76) sec-Butylbenzene	17.46	105	36638	2.12 ug\L	97
78) Isopropyltoluene	17.66	119	26180	1.82 ug\L #	69
81) n-Butylbenzene	18.45	91	46525	3.40 ug\L #	87
83) 1,2,4-trichlorobenzene	21.37	180	38525	5.49 ug\L	100
85) Naphthalene	21.85	128	111405	9.81 ug\L	100

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

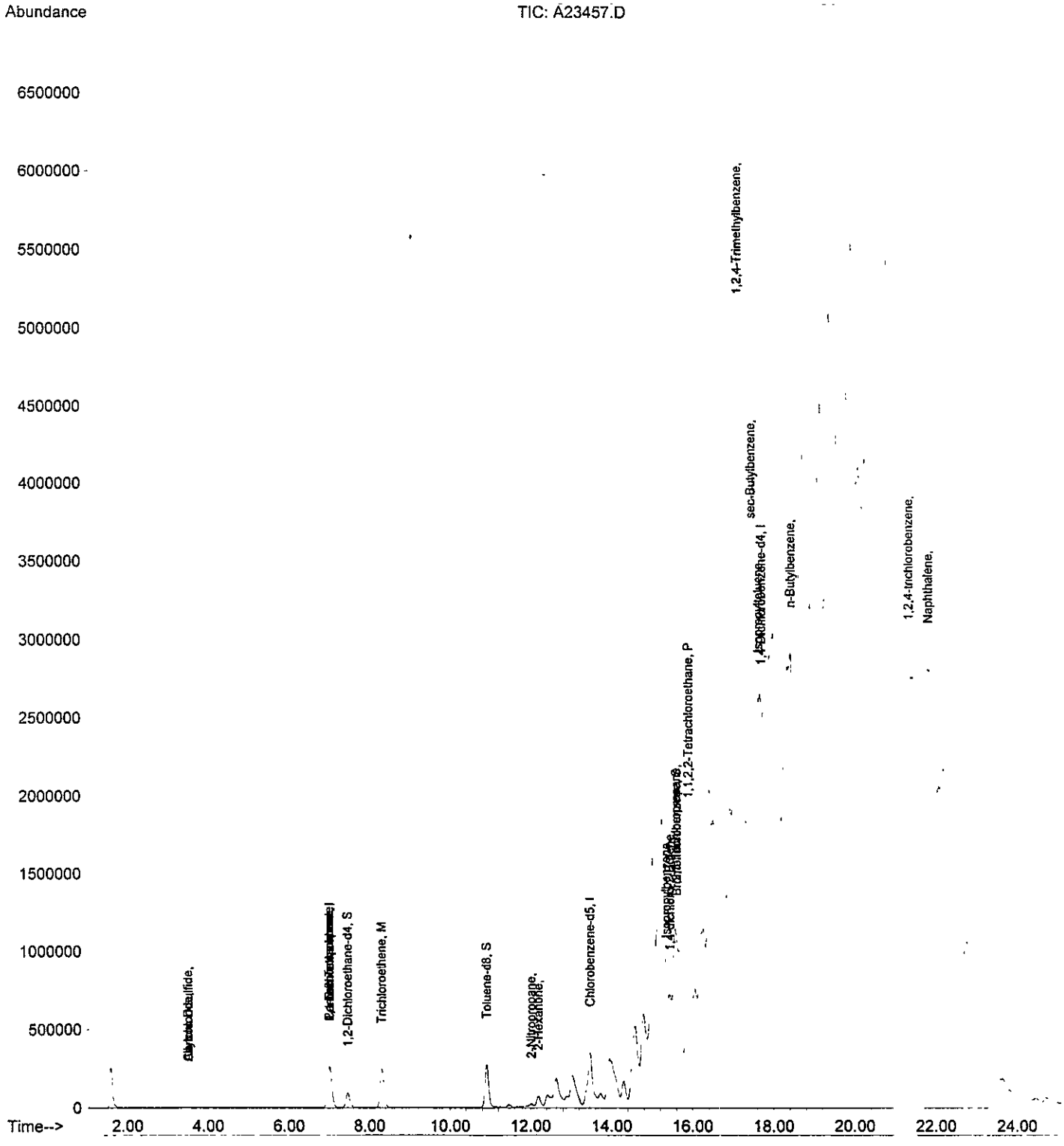
Quantitation Report

Data File : C:\HPCHEM\1\DATA\032300\A23457.D
Acq On : 23 Mar 2000 1:43 pm
Sample : AB89501 5ml DF=1
Misc : 23975/A032100W
MS Integration Params: rteint.p
Quant Time: Mar 23 14:08 2000

Vial: 10
Operator: KJ,TAG
Inst : GC/MS Ins
Multiplr: 1.00

Quant Results File: 032300W.RES

Method : C:\HPCHEM\1\DATA\032300\032300W.M (RTE Integrator)
Title : 8260 CALIBRATION FOR WATER 2/24/2000
Last Update : Wed Mar 08 23:04:31 2000
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\032300\A23458.D Vial: 11
Acq On : 23 Mar 2000 2:15 pm Operator: KJ,TAG
Sample : AB89502 5ml DF=1 Inst : GC/MS Ins
Misc : 23975/A032100W Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Mar 23 14:40 2000 Quant Results File: 032300W.RES

Quant Method : C:\HPCHEM\1\DATA\032300\032300W.M (RTE Integrator)
Title : 8260 CALIBRATION FOR WATER 2/24/2000
Last Update : Mon Mar 13 09:17:29 2000
Response via : Initial Calibration
DataAcq Meth : 032300W

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Pentafluorobenzene	7.01	168	632038	50.00	ug\L		-0.03
45) Chlorobenzene-d5	13.48	117	565102	50.00	ug\L		-0.01
61) 1,4-Dichlorobenzene-d4	17.72	152	360986	50.00	ug\L		-0.01
System Monitoring Compounds							
32) 1,2-Dichloroethane-d4	7.46	65	258789	50.91	ug\L		-0.02
Spiked Amount 50.000	Range 80 - 120		Recovery = 101.82%				
46) Toluene-d8	10.91	98	641284	48.68	ug\L		-0.02
Spiked Amount 50.000	Range 87 - 104		Recovery = 97.36%				
65) Bromofluorobenzene	15.62	95	467321	51.35	ug\L		-0.01
Spiked Amount 50.000	Range 84 - 110		Recovery = 102.70%				
Target Compounds							Qvalue
5) Bromomethane	2.49	94	69	-7.05	ug\L		99
6) Chloroethane	2.43	64	433	-23.38	ug\L	#	40
11) Acetone	3.32	58	690	-10.81	ug\L	#	1
13) Allylchloride	3.51	76	100235	62.59	ug\L	#	1
14) Carbon Disulfide	3.51	76	100235	12.54	ug\L	not on list	99
16) Methylene Chloride	3.86	84	5441	1.57	ug\L		98
29) Carbon Tetrachloride	7.01	117	67825	9.68	ug\L	#	7
31) 1,1-Dichloropropene	7.02	75	56277	8.92	ug\L	#	46
34) Isobutyl alcohol	7.69	43	60	62.99	ug\L	#	14
36) Trichloroethene	8.29	95	17275	2.85	ug\L	#	3
58) Ethylbenzene	13.76	91	283405	16.91	ug\L		98
59) total-Xylene	13.97	106	145832	23.85	ug\L		99
63) Isopropylbenzene	15.37	105	157405	8.74	ug\L		98
64) 1,4-dichloro-2-Butene	15.51	53	76	9.77	ug\L	#	1
68) 1,2,3-Trichloropropane	15.62	75	245752	45.51	ug\L	#	100
69) n-Propylbenzene	16.12	91	186583	8.88	ug\L		93
70) 2-Chlorotoluene	16.30	91	30846	2.42	ug\L	#	32
71) 4-Chlorotoluene	16.45	91	28414	1.68	ug\L	#	48
72) 1,3,5-Trimethylbenzene	16.45	105	247291	15.58	ug\L		95
74) tert-Butylbenzene	17.13	119	104616	5.50	ug\L	#	53
75) 1,2,4-Trimethylbenzene	17.12	105	897090	55.27	ug\L	#	85
76) sec-Butylbenzene	17.44	105	73198	3.38	ug\L		95
78) Isopropyltoluene	17.69	119	39342	2.18	ug\L		90
81) n-Butylbenzene	18.46	91	59906	3.49	ug\L	#	1
85) Naphthalene	21.81	128	274791	21.95	ug\L		100

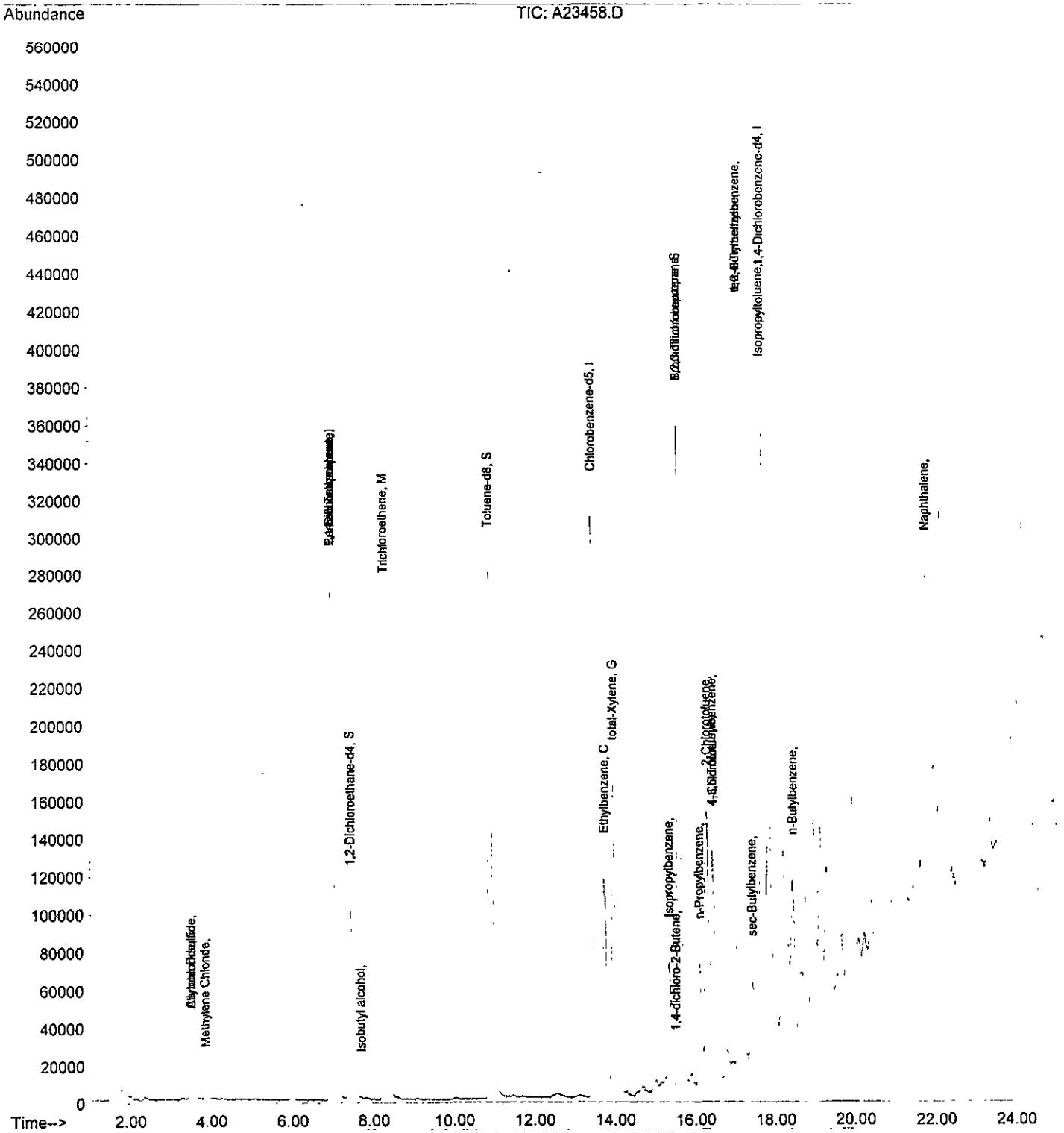
ws 3/24/00

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

Quantitation Report

Data File : C:\HPCHEM\1\DATA\032300\A23458.D Vial: 11
Acq On : 23 Mar 2000 2:15 pm Operator: KJ,TAG
Sample : AB89502 5ml DF=1 Inst : GC/MS Ins
Misc : 23975/A032100W Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Mar 23 14:40 2000 Quant Results File: 032300W.RES

Method : C:\HPCHEM\1\DATA\032300\032300W.M (RTE Integrator)
Title : 8260 CALIBRATION FOR WATER 2/24/2000
Last Update : Wed Mar 08 23:04:31 2000
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\032300\A23459.D Vial: 12
Acq On : 23 Mar 2000 2:47 pm Operator: KJ,TAG
Sample : AB89503 5ml DF=1 Inst : GC/MS Ins
Misc : 23975/A032100W Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Mar 23 15:12 2000 Quant Results File: 032300W.RES

Quant Method : C:\HPCHEM\1\DATA\032300\032300W.M (RTE Integrator)
Title : 8260 CALIBRATION FOR WATER 2/24/2000
Last Update : Mon Mar 13 09:17:29 2000
Response via : Initial Calibration
DataAcq Meth : 032300W

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Pentafluorobenzene	7.02	168	648604	50.00 ug\L	-0.02
45) Chlorobenzene-d5	13.48	117	587106	50.00 ug\L	0.00
61) 1,4-Dichlorobenzene-d4	17.72	152	368016	50.00 ug\L	0.00
System Monitoring Compounds					
32) 1,2-Dichloroethane-d4	7.45	65	255215	48.92 ug\L	-0.03
Spiked Amount 50.000	Range 80 - 120		Recovery = 97.84%		
46) Toluene-d8	10.92	98	650836	47.56 ug\L	0.00
Spiked Amount 50.000	Range 87 - 104		Recovery = 95.12%		
65) Bromofluorobenzene	15.63	95	478627	51.59 ug\L	0.00
Spiked Amount 50.000	Range 84 - 110		Recovery = 103.18%		
Target Compounds					Qvalue
5) Bromomethane	2.33	94	1447	-6.20 ug\L	89
6) Chloroethane	2.41	64	331	-23.52 ug\L #	40
11) Acetone	3.31	58	875	-9.98 ug\L #	4
13) Allylchloride	3.51	76	81693	49.71 ug\L #	1
14) Carbon Disulfide	3.51	76	81693	9.96 ug\L	not on list 98
16) Methylene Chloride	3.86	84	5836	1.64 ug\L	98
29) Carbon Tetrachloride	7.03	117	67519	9.39 ug\L #	2
31) 1,1-Dichloropropene	7.01	75	54543	8.42 ug\L #	46
34) Isobutyl alcohol	7.77	43	145	63.91 ug\L #	14
36) Trichloroethene	8.32	95	17628	2.83 ug\L #	3
59) total-Xylene	14.00	106	14033m	2.21 ug\L #	
64) 1,4-dichloro-2-Butene	15.50	53	248	9.92 ug\L #	1
68) 1,2,3-Trichloropropane	15.63	75	248554	45.15 ug\L #	100

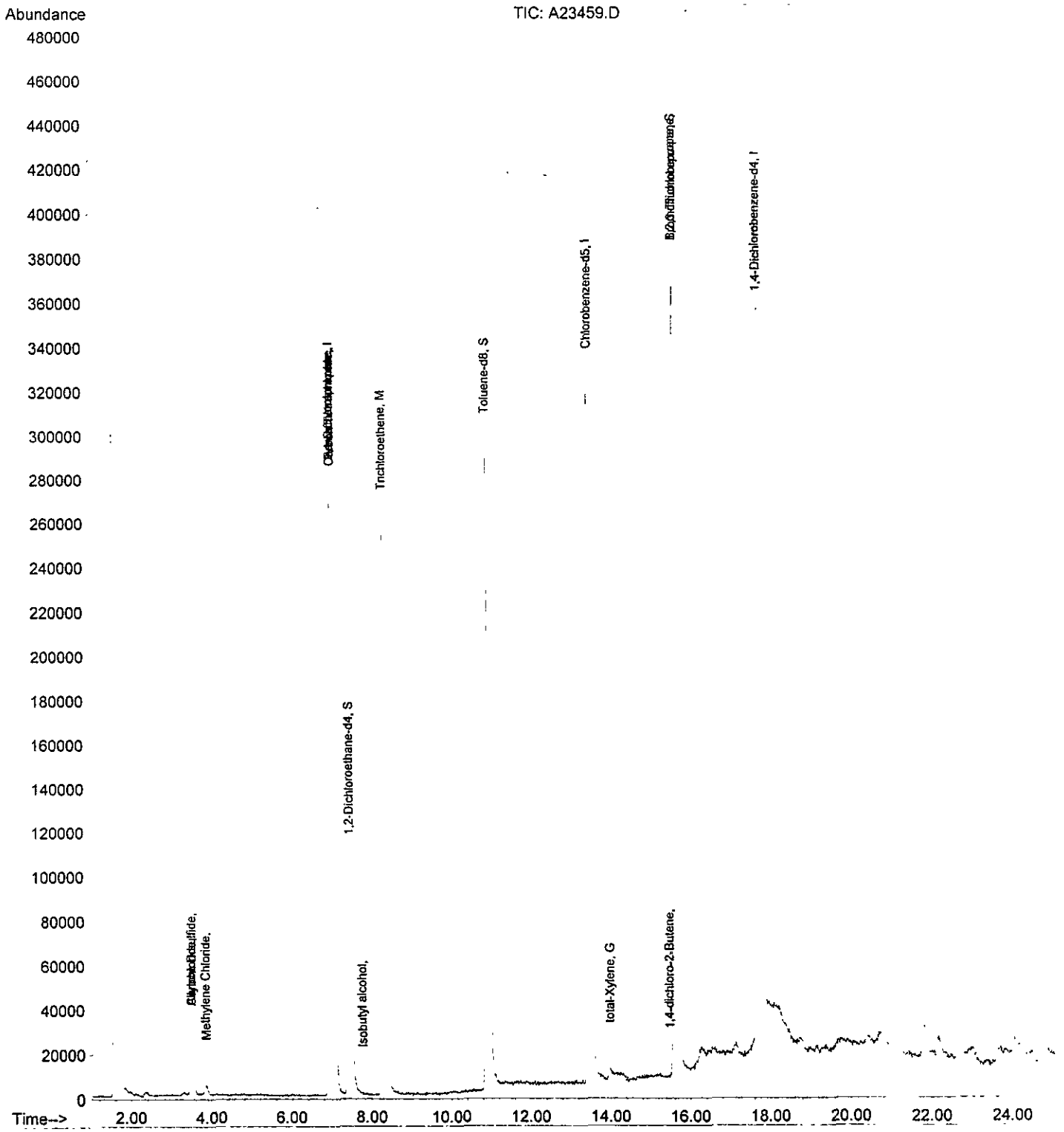
MS 3/24/00

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

Quantitation Report

Data File : C:\HPCHEM\1\DATA\032300\A23459.D Vial: 12
Acq On : 23 Mar 2000 2:47 pm Operator: KJ,TAG
Sample : AB89503 5ml DF=1 Inst : GC/MS Ins
Misc : 23975/A032100W Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Mar 23 15:12 2000 Quant Results File: 032300W.RES

Method : C:\HPCHEM\1\DATA\032300\032300W.M (RTE Integrator)
Title : 8260 CALIBRATION FOR WATER 2/24/2000
Last Update : Wed Mar 08 23:04:31 2000
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\032300\A23460.D Vial: 13
Acq On : 23 Mar 2000 3:19 pm Operator: KJ,TAG
Sample : AB89504 5ml DF=1 Inst : GC/MS Ins
Misc : 23975/A032100W Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Mar 23 15:44 2000 Quant Results File: 032300W.RES

Quant Method : C:\HPCHEM\1\DATA\032300\032300W.M (RTE Integrator)
Title : 8260 CALIBRATION FOR WATER 2/24/2000
Last Update : Mon Mar 13 09:17:29 2000
Response via : Initial Calibration
DataAcq Meth : 032300W

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Pentafluorobenzene	7.02	168	648868 ✓	50.00 ug\L	-0.02
45) Chlorobenzene-d5	13.48	117	580484 ✓	50.00 ug\L	0.00
61) 1,4-Dichlorobenzene-d4	17.72	152	383674 ✓	50.00 ug\L	0.00
System Monitoring Compounds					
32) 1,2-Dichloroethane-d4	7.46	65	250486	47.99 ug\L	-0.02
Spiked Amount 50.000	Range 80 - 120		Recovery = 95.98% ✓		
46) Toluene-d8	10.92	98	624103	46.12 ug\L	0.00 ✓
Spiked Amount 50.000	Range 87 - 104		Recovery = 92.24%		
65) Bromofluorobenzene	15.62	95	474675	49.08 ug\L	0.00 ✓
Spiked Amount 50.000	Range 84 - 110		Recovery = 98.16%		
Target Compounds					Qvalue
5) Bromomethane	2.34	94	810	~~-6.59 ug\L~~	88
6) Chloroethane	2.37	64	89	~~-23.82 ug\L~~ #	40
13) Allylchloride	3.52	76	4873	~~2.96 ug\L~~ #	1
23) 2-Butanone	6.06	72	230	~~-2.05 ug\L~~ #	1
29) Carbon Tetrachloride	7.02	117	65061	~~9.05 ug\L~~ #	7
31) 1,1-Dichloropropene	7.03	75	52418	~~8.09 ug\L~~ #	42
34) Isobutyl alcohol	7.82	43	63	~~63.00 ug\L~~ #	14
36) Trichloroethene	8.31	95	18016	~~2.89 ug\L~~ #	3
59) total-Xylene	13.98	106	14665m	2.33 ug\L	
68) 1,2,3-Trichloropropane	15.62	75	246471	~~42.94 ug\L~~ #	100
85) Naphthalene	21.83	128	8946	~~-2.02 ug\L~~	100

KJ 3/24/00

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

Quantitation Report

Data File : C:\HPCHEM\1\DATA\032300\A23460.D Vial: 13
Acq On : 23 Mar 2000 3:19 pm Operator: KJ,TAG
Sample : AB89504 5ml DF=1 Inst : GC/MS Ins
Misc : 23975/A032100W Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Mar 23 15:44 2000 Quant Results File: 032300W.RES

Method : C:\HPCHEM\1\DATA\032300\032300W.M (RTE Integrator)
Title : 8260 CALIBRATION FOR WATER 2/24/2000
Last Update : Wed Mar 08 23:04:31 2000
Response via : Initial Calibration

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\032300\A23461.D
Acq On : 23 Mar 2000 3:51 pm
Sample : AB89505 5ml DF=1
Misc : 23975/A032100W
MS Integration Params: rteint.p
Quant Time: Mar 23 16:16 2000

Vial: 14
Operator: KJ,TAG
Inst : GC/MS Ins
Multiplr: 1.00

Quant Results File: 032300W.RES

Quant Method : C:\HPCHEM\1\DATA\032300\032300W.M (RTE Integrator)
Title : 8260 CALIBRATION FOR WATER 2/24/2000
Last Update : Mon Mar 13 09:17:29 2000
Response via : Initial Calibration
DataAcq Meth : 032300W

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Pentafluorobenzene	7.03	168	625414 ✓	50.00 ug\L	0.00
45) Chlorobenzene-d5	13.49	117	535962 ✓	50.00 ug\L	0.00
61) 1,4-Dichlorobenzene-d4	17.72	152	358703 ✓	50.00 ug\L	0.00
System Monitoring Compounds					
32) 1,2-Dichloroethane-d4	7.47	65	244883	48.68 ug\L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 97.36%		
46) Toluene-d8	10.92	98	598261	47.89 ug\L	0.00
Spiked Amount 50.000	Range 87 - 104		Recovery = 95.78%		
65) Bromofluorobenzene	15.62	95	444755	49.19 ug\L	0.00
Spiked Amount 50.000	Range 84 - 110		Recovery = 98.38%		
Target Compounds					Qvalue
5) Bromomethane	2.32	94	840	-6.56 ug\L	87
6) Chloroethane	2.40	64	68	-23.85 ug\L #	40
11) Acetone	3.33	58	1257	-7.87 ug\L	77
13) Allylchloride	3.49	76	8236	5.20 ug\L #	1
14) Carbon Disulfide	3.49	76	8236	1.04 ug\L #	not on 73 list
16) Methylene Chloride	3.86	84	4243	1.24 ug\L #	63
29) Carbon Tetrachloride	7.02	117	64888	9.36 ug\L #	7
31) 1,1-Dichloropropene	7.02	75	51528	8.25 ug\L #	42
36) Trichloroethene	8.31	95	17358	2.89 ug\L #	3
59) total-Xylene	13.99	106	6391m	1.10 ug\L #	
68) 1,2,3-Trichloropropane	15.63	75	232795	43.38 ug\L #	100
85) Naphthalene	21.85	128	5023	-2.33 ug\L	100

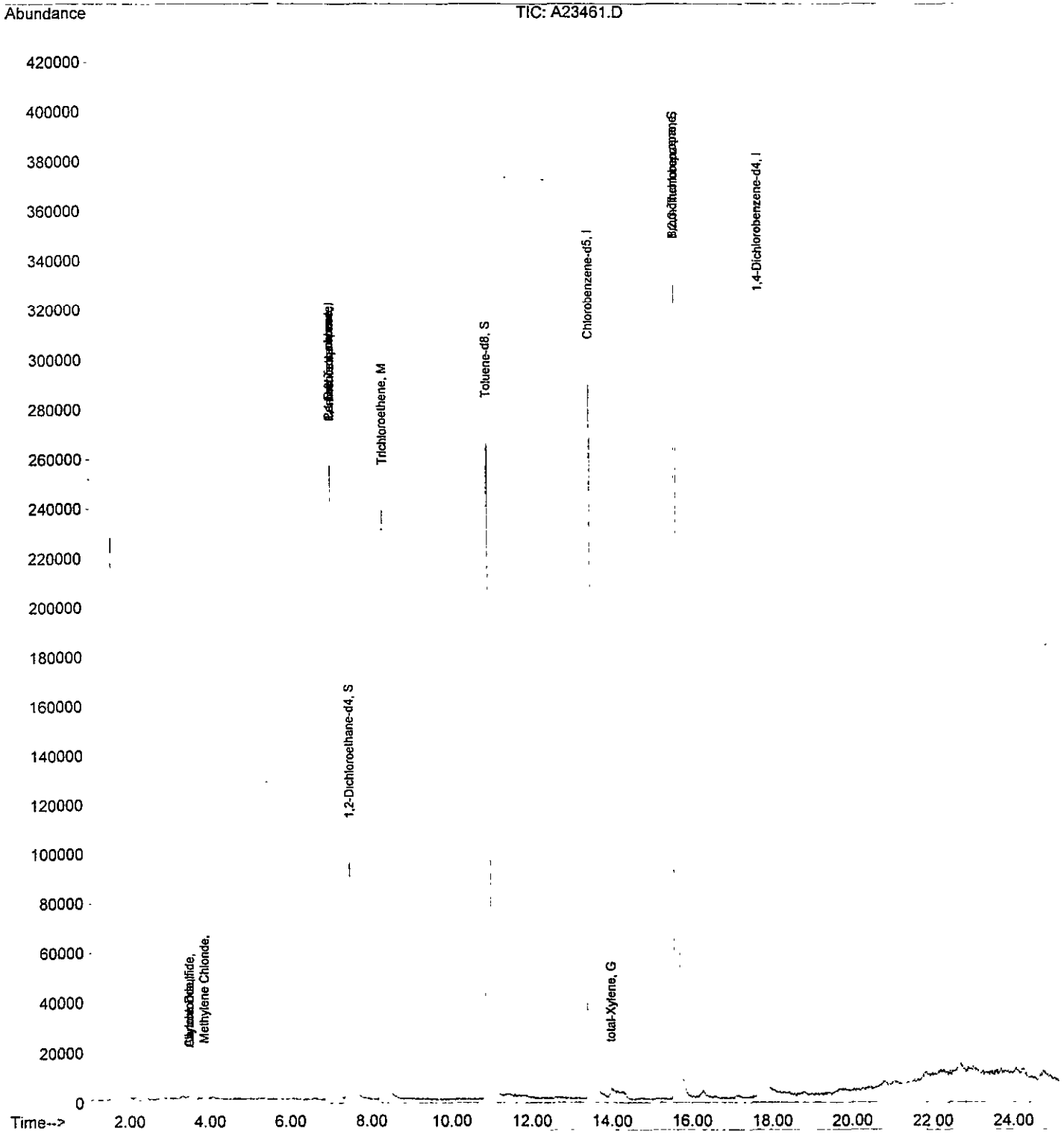
MS 3/24/00

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

Quantitation Report

Data File : C:\HPCHEM\1\DATA\032300\A23461.D Vial: 14
Acq On : 23 Mar 2000 3:51 pm Operator: KJ,TAG
Sample : AB89505 5ml DF=1 Inst : GC/MS Ins
Misc : 23975/A032100W Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Mar 23 16:16 2000 Quant Results File: 032300W.RES

Method : C:\HPCHEM\1\DATA\032300\032300W.M (RTE Integrator)
Title : 8260 CALIBRATION FOR WATER 2/24/2000
Last Update : Wed Mar 08 23:04:31 2000
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\032300\A23462.D Vial: 15
Acq On : 23 Mar 2000 4:23 pm Operator: KJ,TAG
Sample : AB89506 5ml DF=1 Inst : GC/MS Ins
Misc : 23975/A032100W Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Mar 23 16:48 2000 Quant Results File: 032300W.RES

Quant Method : C:\HPCHEM\1\DATA\032300\032300W.M (RTE Integrator)
Title : 8260 CALIBRATION FOR WATER 2/24/2000
Last Update : Mon Mar 13 09:17:29 2000
Response via : Initial Calibration
DataAcq Meth : 032300W

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Pentafluorobenzene	7.01	168	613669	50.00 ug\L	-0.02
45) Chlorobenzene-d5	13.49	117	529597	50.00 ug\L	0.00
61) 1,4-Dichlorobenzene-d4	17.72	152	345895	50.00 ug\L	0.00
System Monitoring Compounds					
32) 1,2-Dichloroethane-d4	7.47	65	244893	49.61 ug\L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery =	99.22%	
46) Toluene-d8	10.93	98	589354	47.74 ug\L	0.00
Spiked Amount 50.000	Range 87 - 104		Recovery =	95.48%	
65) Bromofluorobenzene	15.63	95	429117	49.21 ug\L	0.00
Spiked Amount 50.000	Range 84 - 110		Recovery =	98.42%	
Target Compounds					Qvalue
5) Bromomethane	2.54	94	60	-~~7.06 ug~~\L	93
6) Chloroethane	2.40	64	552	-~~23.21 ug~~\L #	40
11) Acetone	3.31	58	583	-~~11.27 ug~~\L #	1
13) Allylchloride	3.51	76	34393	~~22.12 ug\L~~ #	1
14) Carbon Disulfide	3.51	76	34393	4.43 ug\L not on list	98
29) Carbon Tetrachloride	7.02	117	64372	~~9.46 ug~~\L #	7
31) 1,1-Dichloropropene	7.01	75	51464	~~8.40 ug~~\L #	44
36) Trichloroethene	8.33	95	14315	~~2.43 ug~~\L #	3
59) total-Xylene	13.99	106	15237m	2.66 ug\L #	
68) 1,2,3-Trichloropropane	15.62	75	226706	~~43.81 ug\L~~ #	100
85) Naphthalene	21.83	128	7504	-~~2.08 ug~~\L	100

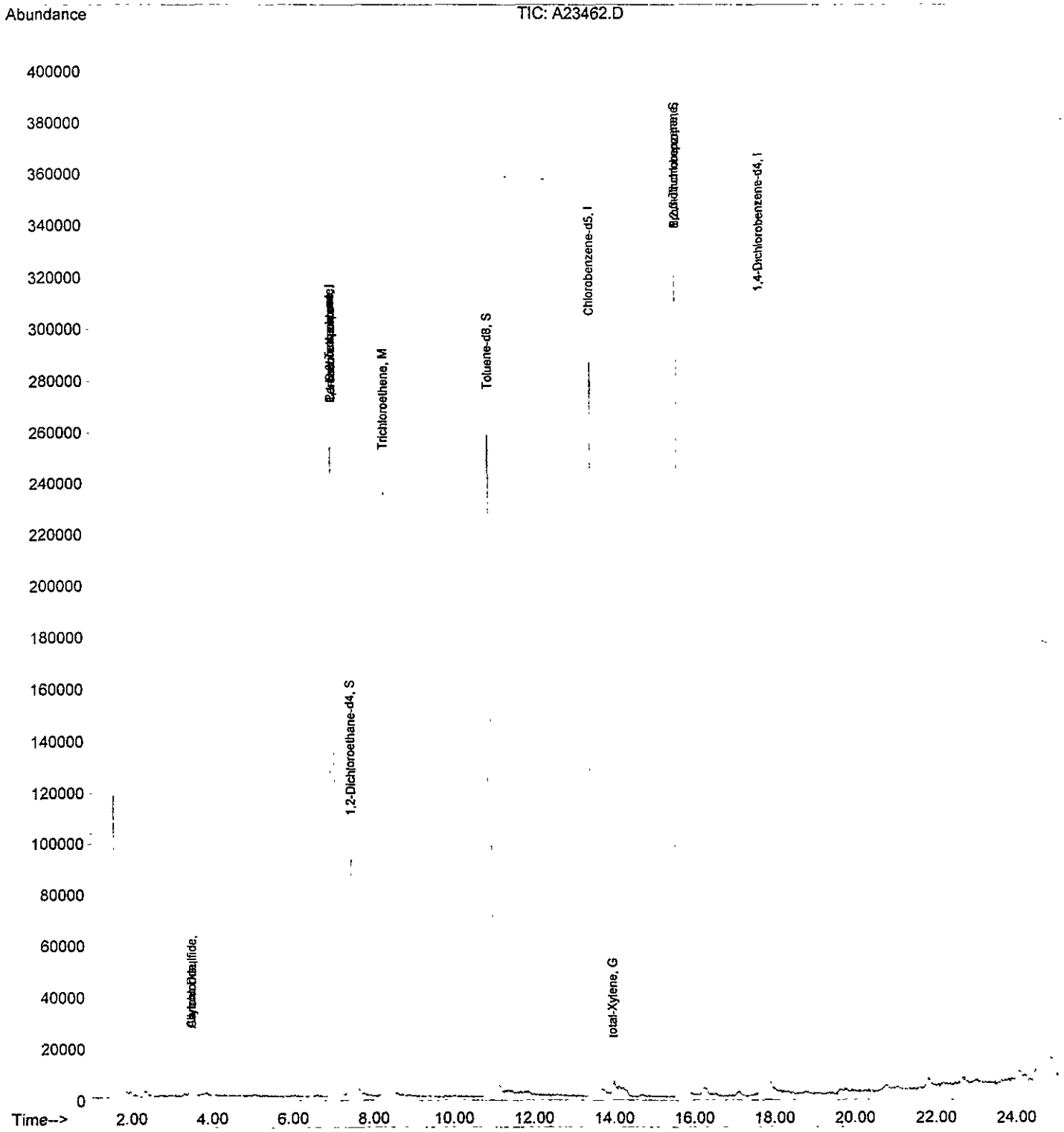
MS 3/24/00

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

Quantitation Report

Data File : C:\HPCHEM\1\DATA\032300\A23462.D Vial: 15
Acq On : 23 Mar 2000 4:23 pm Operator: KJ,TAG
Sample : AB89506 5ml DF=1 Inst : GC/MS Ins
Misc : 23975/A032100W Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Mar 23 16:48 2000 Quant Results File: 032300W.RES

Method : C:\HPCHEM\1\DATA\032300\032300W.M (RTE Integrator)
Title : 8260 CALIBRATION FOR WATER 2/24/2000
Last Update : Wed Mar 08 23:04:31 2000
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\032300\A23463.D Vial: 16
Acq On : 23 Mar 2000 4:55 pm Operator: KJ,TAG
Sample : AB89507 5ml DF=1 Inst : GC/MS Ins
Misc : 23975/A032100W Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Mar 23 17:20 2000 Quant Results File: 032300W.RES

Quant Method : C:\HPCHEM\1\DATA\032300\032300W.M (RTE Integrator)
Title : 8260 CALIBRATION FOR WATER 2/24/2000
Last Update : Mon Mar 13 09:17:29 2000
Response via : Initial Calibration
DataAcq Meth : 032300W

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Pentafluorobenzene	7.01	168	613878	50.00 ug\L	-0.03
45) Chlorobenzene-d5	13.48	117	524157	50.00 ug\L	0.00
61) 1,4-Dichlorobenzene-d4	17.73	152	340860	50.00 ug\L	0.00
System Monitoring Compounds					
32) 1,2-Dichloroethane-d4	7.46	65	245026	49.62 ug\L	-0.02
Spiked Amount 50.000	Range 80 - 120		Recovery = 99.24%		
46) Toluene-d8	10.92	98	595914	48.77 ug\L	0.00
Spiked Amount 50.000	Range 87 - 104		Recovery = 97.54%		
65) Bromofluorobenzene	15.63	95	440509	51.27 ug\L	0.00
Spiked Amount 50.000	Range 84 - 110		Recovery = 102.54%		
Target Compounds					Qvalue
5) Bromomethane	2.32	94	1381	-6.19 ug\L	90
11) Acetone	3.31	58	467	-11.87 ug\L #	1
13) Allylchloride	3.50	76	10022	6.44 ug\L #	1
14) Carbon Disulfide	3.50	76	10022	1.29 ug\L #	92
29) Carbon Tetrachloride	7.01	117	64262	9.44 ug\L #	5
31) 1,1-Dichloropropene	7.02	75	54711	8.93 ug\L #	48
33) Benzene	7.54	78	19639	1.87 ug\L	100
34) Isobutyl alcohol	7.82	43	2128	87.24 ug\L #	31
36) Trichloroethene	8.31	95	16124	2.74 ug\L #	3
47) Toluene	11.05	92	27880	3.76 ug\L	98
58) Ethylbenzene	13.77	91	798000	51.33 ug\L	98
59) total-Xylene	13.98	106	1243675m	219.25 ug\L	
60) Styrene	14.70	104	29573	3.04 ug\L #	1
63) Isopropylbenzene	15.38	105	438286	25.77 ug\L	99
64) 1,4-dichloro-2-Butene	15.52	53	270	9.96 ug\L #	1
68) 1,2,3-Trichloropropane	16.32	75	20032	3.93 ug\L #	100
69) n-Propylbenzene	16.13	91	549421	27.70 ug\L	95
70) 2-Chlorotoluene	16.30	91	162805	13.51 ug\L #	35
71) 4-Chlorotoluene	16.45	91	86287	5.41 ug\L #	45
72) 1,3,5-Trimethylbenzene	16.45	105	777320	51.85 ug\L	94
74) tert-Butylbenzene	17.14	119	393299	21.90 ug\L #	53
75) 1,2,4-Trimethylbenzene	17.13	105	3447132	224.93 ug\L #m	85
76) sec-Butylbenzene	17.45	105	340435	16.62 ug\L	95
78) Isopropyltoluene	17.66	119	417368	24.45 ug\L	99
81) n-Butylbenzene	18.48	91	293638	18.10 ug\L #	5
85) Naphthalene	21.82	128	1041149	96.47 ug\L	100

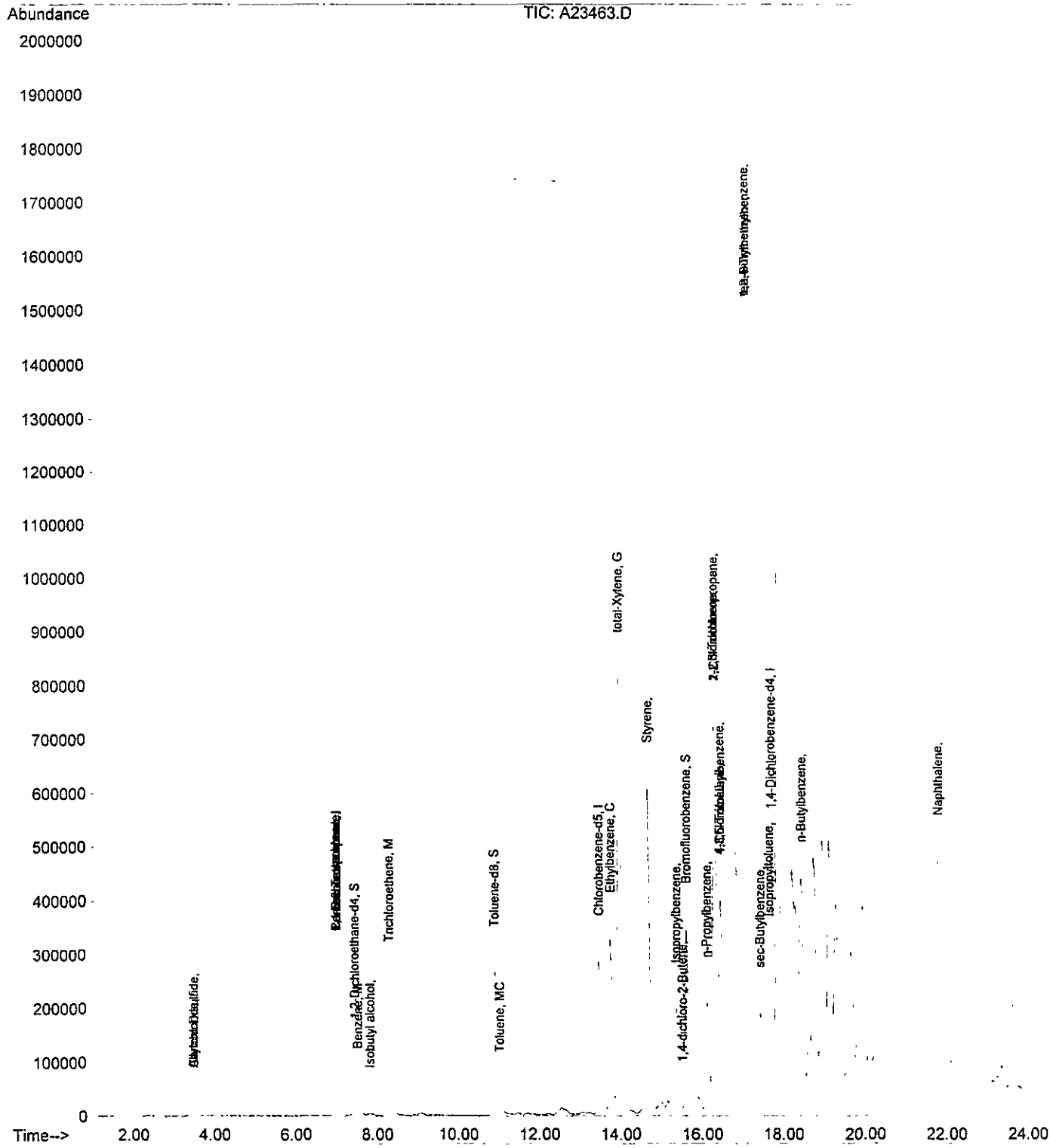
KJ 3/21/00

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

Quantitation Report

Data File : C:\HPCHEM\1\DATA\032300\A23463.D Vial: 16
Acq On : 23 Mar 2000 4:55 pm Operator: KJ,TAG
Sample : AB89507 5ml DF=1 Inst : GC/MS Ins
Misc : 23975/A032100W Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Mar 23 17:20 2000 Quant Results File: 032300W.RES

Method : C:\HPCHEM\1\DATA\032300\032300W.M (RTE Integrator)
Title : 8260 CALIBRATION FOR WATER 2/24/2000
Last Update : Wed Mar 08 23:04:31 2000
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\032400\A23482.D
Acq On : 24 Mar 2000 5:29 pm
Sample : AB89507 0.5ml DF=10
Misc : 23975/A032300W
MS Integration Params: rteint.p
Quant Time: Mar 24 17:54 2000

Vial: 11
Operator: KJ,TAG
Inst : GC/MS Ins
Multiplr: 1.00

Quant Results File: 032400W.RES

Quant Method : C:\HPCHEM\1\DATA\032400\032400W.M (RTE Integrator)
Title : 8260 CALIBRATION FOR WATER 2/24/2000
Last Update : Mon Mar 13 09:17:29 2000
Response via : Initial Calibration
DataAcq Meth : 032400W

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.02	168	581899	50.00	ug\L	-0.02
45) Chlorobenzene-d5	13.48	117	528525	50.00	ug\L	0.00
61) 1,4-Dichlorobenzene-d4	17.73	152	335090	50.00	ug\L	0.00
System Monitoring Compounds						
32) 1,2-Dichloroethane-d4	7.47	65	252040	53.85	ug\L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 107.70%			
46) Toluene-d8	10.92	98	605869	49.18	ug\L	0.00
Spiked Amount 50.000	Range 87 - 104		Recovery = 98.36%			
65) Bromofluorobenzene	15.62	95	451041	53.40	ug\L	0.00
Spiked Amount 50.000	Range 84 - 110		Recovery = 106.80%			
Target Compounds						Qvalue
5) Bromomethane	2.31	94	2128	-5.62	ug\L #	72
11) Acetone	3.36	58	61	-13.98	ug\L #	1
13) Allylchloride	3.51	76	6847	4.64	ug\L #	1
16) Methylene Chloride	3.86	84	16521	5.18	ug\L	95
29) Carbon Tetrachloride	7.02	117	62134	9.63	ug\L #	2
31) 1,1-Dichloropropene	7.01	75	49990	8.61	ug\L #	51
34) Isobutyl alcohol	7.64	43	225	65.09	ug\L #	14
42) 2-Chloroethyl-vinyl ether	10.36	63	63	5.66	ug\L #	1
58) Ethylbenzene	13.75	91	83338	5.32	ug\L	99
59) total-Xylene	13.99	106	130850m	22.88	ug\L	
63) Isopropylbenzene	15.37	105	46430	2.78	ug\L	97
64) 1,4-dichloro-2-Butene	15.52	53	448	10.13	ug\L #	1
68) 1,2,3-Trichloropropane	15.63	75	236986	47.28	ug\L #	100
69) n-Propylbenzene	16.12	91	62284	3.19	ug\L	91
70) 2-Chlorotoluene	16.29	91	16039	1.35	ug\L #	49
72) 1,3,5-Trimethylbenzene	16.46	105	83658	5.68	ug\L	95
74) tert-Butylbenzene	17.12	119	50788	2.88	ug\L #	53
75) 1,2,4-Trimethylbenzene	17.13	105	378733	25.14	ug\L #	85
76) sec-Butylbenzene	17.43	105	34002	1.69	ug\L	91
78) Isopropyltoluene	17.66	119	41403	2.47	ug\L	96
81) n-Butylbenzene	18.46	91	32094	2.01	ug\L #	18
85) Naphthalene	21.82	128	146695	11.44	ug\L	100

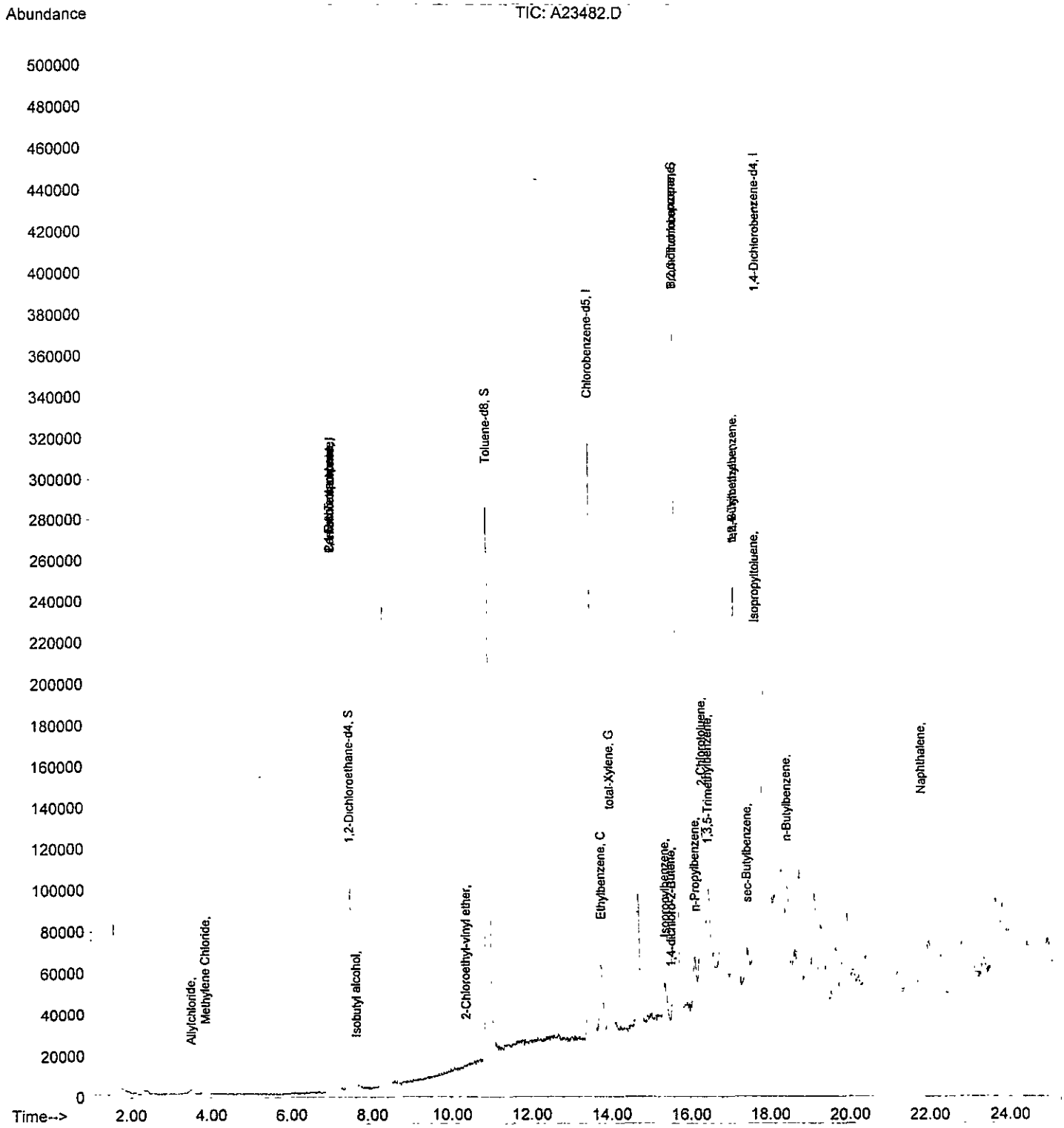
3/27/00

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

Quantitation Report

Data File : C:\HPCHEM\1\DATA\032400\A23482.D Vial: 11
Acq On : 24 Mar 2000 5:29 pm Operator: KJ,TAG
Sample : AB89507 0.5ml DF=10 Inst : GC/MS Ins
Misc : 23975/A032300W Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Mar 24 17:54 2000 Quant Results File: 032400W.RES

Method : C:\HPCHEM\1\DATA\032400\032400W.M (RTE Integrator)
Title : 8260 CALIBRATION FOR WATER 2/24/2000
Last Update : Wed Mar 08 23:04:31 2000
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\032300\A23464.D Vial: 1
Acq On : 23 Mar 2000 5:27 pm Operator: KJ,TAG
Sample : AB89508 5ml DF=1 Inst : GC/MS Ins
Misc : 23975/A032100W Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Mar 23 17:52 2000 Quant Results File: 032300W.RES

Quant Method : C:\HPCHEM\1\DATA\032300\032300W.M (RTE Integrator)
Title : 8260 CALIBRATION FOR WATER 2/24/2000
Last Update : Mon Mar 13 09:17:29 2000
Response via : Initial Calibration
DataAcq Meth : 032300W

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Pentafluorobenzene	7.02	168	599092 ✓	50.00 ug\L	-0.02
45) Chlorobenzene-d5	13.49	117	538866 ✓	50.00 ug\L	0.00
61) 1,4-Dichlorobenzene-d4	17.73	152	340568 ✓	50.00 ug\L	0.00
System Monitoring Compounds					
32) 1,2-Dichloroethane-d4	7.46	65	255393	53.00 ug\L	-0.02
Spiked Amount 50.000	Range 80 - 120		Recovery = 106.00% ✓		
46) Toluene-d8	10.92	98	609251	48.50 ug\L	0.00
Spiked Amount 50.000	Range 87 - 104		Recovery = 97.00% ✓		
65) Bromofluorobenzene	15.62	95	449676	52.38 ug\L	0.00 ✓
Spiked Amount 50.000	Range 84 - 110		Recovery = 104.76%		
Target Compounds					Qvalue
5) Bromomethane	2.32	94	653	~~-6.66 ug~~\L	90
6) Chloroethane	2.41	64	62	~~-23.85 ug~~\L #	40
9) Acrylonitrile	4.07	53	1007	~~1.69 ug~~\L #	18
11) Acetone	3.34	58	2246	~~-2.29 ug~~\L	80
13) Allylchloride	3.50	76	145540	~~95.87 ug~~\L #	1
14) Carbon Disulfide	3.50	76	145540	19.20 ug\L not on list	100
16) Methylene Chloride	3.86	84	12234	3.73 ug\L	96
23) 2-Butanone	6.05	72	125	~~-2.35 ug~~\L #	22
29) Carbon Tetrachloride	7.02	117	65660	~~9.89 ug~~\L #	5
30) 1,4-Dioxane	9.08	88	64	~~-26.52 ug~~\L #	20
31) 1,1-Dichloropropene	7.01	75	53656	~~8.97 ug~~\L #	48
34) Isobutyl alcohol	7.22	43	80	~~63.27 ug~~\L #	14
36) Trichloroethene	8.31	95	17259	~~3.00 ug~~\L #	3
59) total-Xylene	14.00	106	13359m	2.29 ug\L #	
64) 1,4-dichloro-2-Butene	15.97	53	64	~~9.77 ug~~\L #	1
68) 1,2,3-Trichloropropane	15.63	75	235756	~~46.28 ug~~\L #	100
72) 1,3,5-Trimethylbenzene	16.46	105	21556	1.44 ug\L	96
75) 1,2,4-Trimethylbenzene	17.14	105	60407	3.95 ug\L #	85
85) Naphthalene	21.83	128	94804	6.26 ug\L	100

WS 3/24/00

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

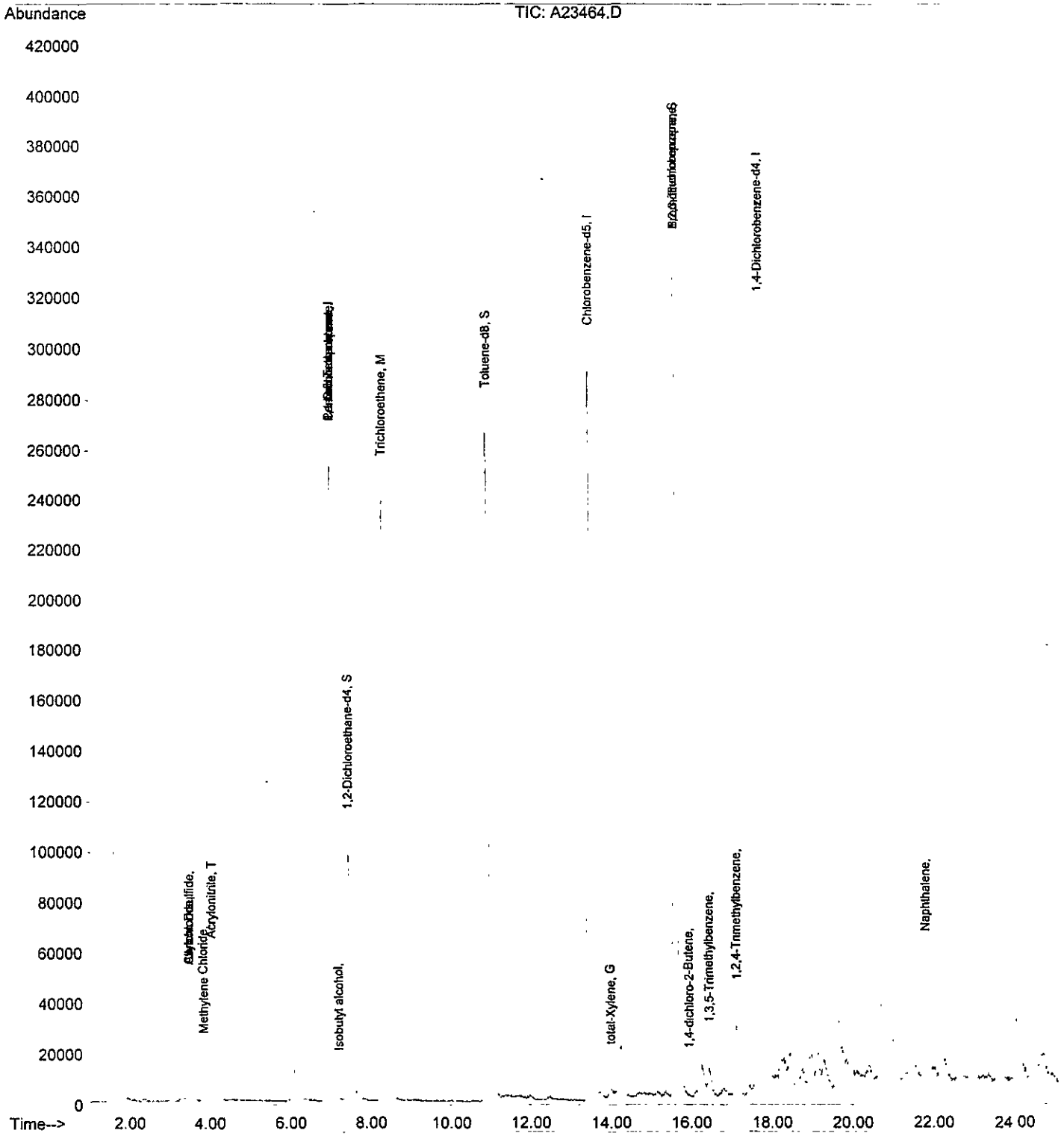
Quantitation Report

Data File : C:\HPCHEM\1\DATA\032300\A23464.D
Acq On : 23 Mar 2000 5:27 pm
Sample : AB89508 5ml DF=1
Misc : 23975/A032100W
MS Integration Params: rteint.p
Quant Time: Mar 23 17:52 2000

Vial: 1
Operator: KJ,TAG
Inst : GC/MS Ins
Multiplr: 1.00

Quant Results File: 032300W.RES

Method : C:\HPCHEM\1\DATA\032300\032300W.M (RTE Integrator)
Title : 8260 CALIBRATION FOR WATER 2/24/2000
Last Update : Wed Mar 08 23:04:31 2000
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\032300\A23465.D
Acq On : 23 Mar 2000 5:59 pm
Sample : AB89509 5ml DF=1
Misc : 23975/A032100W
MS Integration Params: rteint.p
Quant Time: Mar 23 18:24 2000

Vial: 2
Operator: KJ,TAG
Inst : GC/MS Ins
Multiplr: 1.00
Quant Results File: 032300W.RES

Quant Method : C:\HPCHEM\1\DATA\032300\032300W.M (RTE Integrator)
Title : 8260 CALIBRATION FOR WATER 2/24/2000
Last Update : Mon Mar 13 09:17:29 2000
Response via : Initial Calibration
DataAcq Meth : 032300W

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Pentafluorobenzene	7.03	168	581297	50.00 ug\L	-0.01
45) Chlorobenzene-d5	13.49	117	508508	50.00 ug\L	0.00
61) 1,4-Dichlorobenzene-d4	17.73	152	327673	50.00 ug\L	0.00
System Monitoring Compounds					
32) 1,2-Dichloroethane-d4	7.46	65	245771	52.56 ug\L	-0.02
Spiked Amount 50.000	Range 80 - 120		Recovery = 105.12%		
46) Toluene-d8	10.93	98	571545	48.22 ug\L	0.00
Spiked Amount 50.000	Range 87 - 104		Recovery = 96.44%		
65) Bromofluorobenzene	15.63	95	419228	50.75 ug\L	0.00
Spiked Amount 50.000	Range 84 - 110		Recovery = 101.50%		
Target Compounds					Qvalue
5) Bromomethane	2.31	94	463	-6.78 ug\L #	69
11) Acetone	3.35	58	87	-13.83 ug\L #	1
13) Allylchloride	3.51	76	394576	267.88 ug\L #	1
14) Carbon Disulfide	3.51	76	394576	53.66 ug\L	not on 99 list
29) Carbon Tetrachloride	7.03	117	61093	9.48 ug\L #	5
31) 1,1-Dichloropropene	7.03	75	49167	8.47 ug\L #	49
36) Trichloroethene	8.32	95	16627	2.98 ug\L #	3
59) total-Xylene	14.27	106	9823m	1.79 ug\L #	
64) 1,4-dichloro-2-Butene	15.17	53	76	9.78 ug\L #	1
68) 1,2,3-Trichloropropane	15.62	75	223562	45.61 ug\L #	100
85) Naphthalene	21.82	128	17643	-1.03 ug\L	100

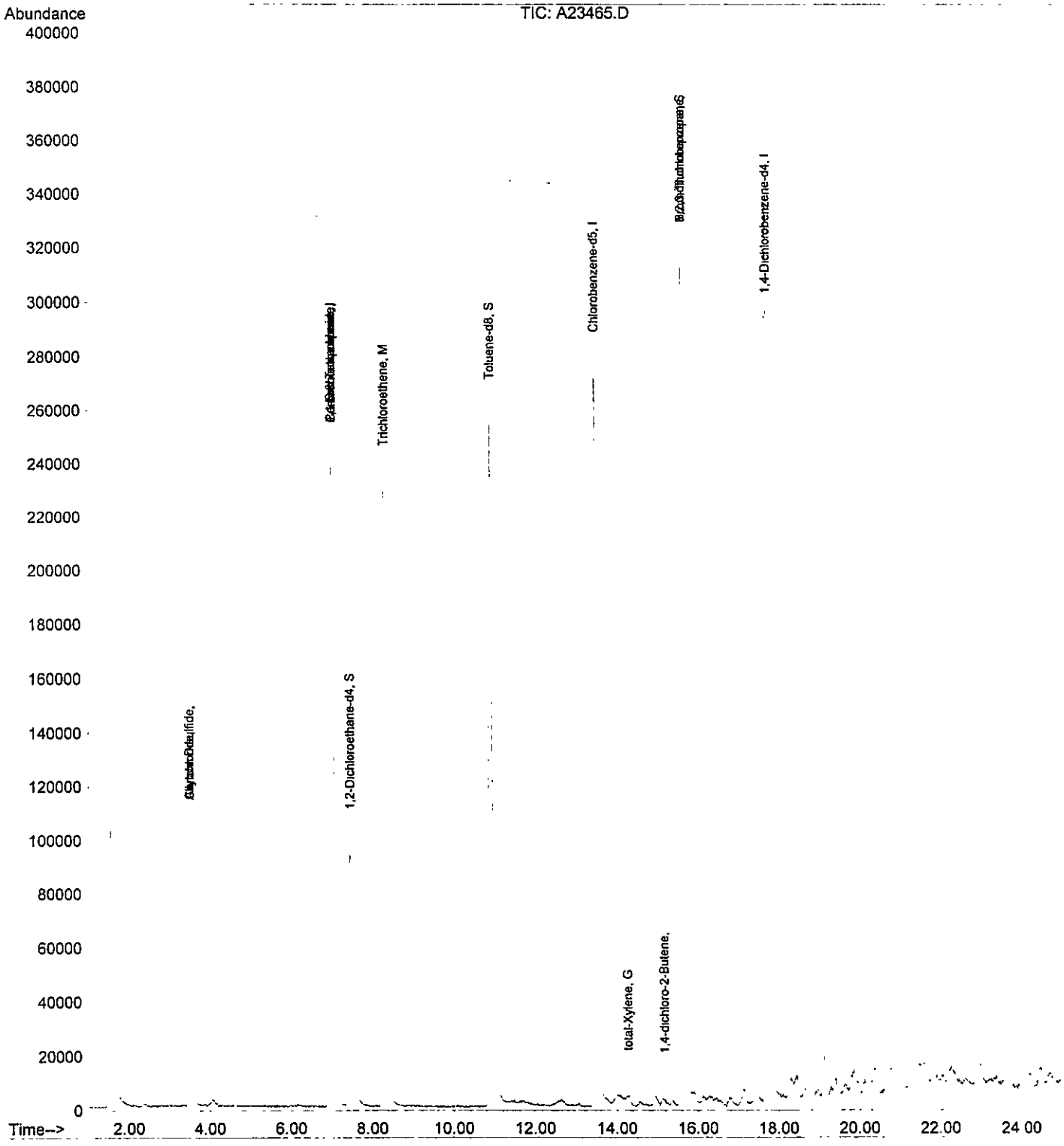
KJ 3/24/00

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

Quantitation Report

Data File : C:\HPCHEM\1\DATA\032300\A23465.D Vial: 2
Acq On : 23 Mar 2000 5:59 pm Operator: KJ,TAG
Sample : AB89509 5ml DF=1 Inst : GC/MS Ins
Misc : 23975/A032100W Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Mar 23 18:24 2000 Quant Results File: 032300W.RES

Method : C:\HPCHEM\1\DATA\032300\032300W.M (RTE Integrator)
Title : 8260 CALIBRATION FOR WATER 2/24/2000
Last Update : Wed Mar 08 23:04:31 2000
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\032300\A23468.D
Acq On : 23 Mar 2000 7:34 pm
Sample : AB89510 5ml DF=1
Misc : 23975/A032100W
MS Integration Params: rteint.p
Quant Time: Mar 23 20:00 2000

Vial: 5
Operator: KJ,TAG
Inst : GC/MS Ins
Multiplr: 1.00
Quant Results File: 032300W.RES

Quant Method : C:\HPCHEM\1\DATA\032300\032300W.M (RTE Integrator)
Title : 8260 CALIBRATION FOR WATER 2/24/2000
Last Update : Mon Mar 13 09:17:29 2000
Response via : Initial Calibration
DataAcq Meth : 032300W

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.01	168	589340	50.00	ug\L	-0.03
45) Chlorobenzene-d5	13.48	117	528468	50.00	ug\L	0.00
61) 1,4-Dichlorobenzene-d4	17.72	152	310115	50.00	ug\L	0.00
System Monitoring Compounds						
32) 1,2-Dichloroethane-d4	7.46	65	244919	51.67	ug\L	-0.02
Spiked Amount 50.000	Range 80 - 120		Recovery = 103.34%			
46) Toluene-d8	10.91	98	581857	47.23	ug\L	-0.02
Spiked Amount 50.000	Range 87 - 104		Recovery = 94.46%			
65) Bromofluorobenzene	15.62	95	429849	54.99	ug\L	0.00
Spiked Amount 50.000	Range 84 - 110		Recovery = 109.98%			
Target Compounds						Qvalue
5) Bromomethane	2.32	94	3433	-4.75	ug\L	96
6) Chloroethane	2.17	64	3056	-19.75	ug\L	90
11) Acetone	3.34	58	1437	-6.49	ug\L #	1
12) Iodomethane	3.47	142	7824	1.46	ug\L #	42
13) Allylchloride	3.70	76	2577	1.73	ug\L #	1
14) Carbon Disulfide	3.51	76	85506	11.47	ug\L	not on list 100
24) Propionitrile	6.18	54	2056	9.20	ug\L #	54
25) Methacrylonitrile	6.43	41	17802	14.56	ug\L #	60
29) Carbon Tetrachloride	7.01	117	62526	9.57	ug\L #	2
30) 1,4-Dioxane	9.45	88	418	-12.74	ug\L #	20
31) 1,1-Dichloropropene	7.01	75	52033	8.84	ug\L #	49
34) Isobutyl alcohol	7.63	43	1794	84.21	ug\L #	82
41) 2-Nitropropane	12.21	43	16881	8.55	ug\L #	61
42) 2-Chloroethyl-vinyl ether	10.16	63	66	5.66	ug\L #	44
49) Ethylmethacrylate	11.73	69	5711	1.13	ug\L #	not on list 86
53) 2-Hexanone	12.21	43	16881	7.98	ug\L #	21
59) total-Xylene	14.01	106	11022m	1.93	ug\L #	
63) Isopropylbenzene	15.37	105	17574	1.14	ug\L #	90
64) 1,4-dichloro-2-Butene	15.55	53	3094	12.88	ug\L #	1
67) 1,1,2,2-Tetrachloroethane	15.90	83	91450	17.49	ug\L #	31
68) 1,2,3-Trichloropropane	15.62	75	223390	48.15	ug\L #	100
76) sec-Butylbenzene	17.45	105	29182	1.57	ug\L	96
81) n-Butylbenzene	18.48	91	25855	1.75	ug\L #	69
82) 1,2-Dibromo-3-chloropropan	19.87	75	6175	4.33	ug\L #	31
83) 1,2,4-trichlorobenzene	21.39	180	21611	2.86	ug\L	100
84) Hexachlorobutadiene	21.75	225	8769	1.44	ug\L	100
85) Naphthalene	21.83	128	85807	6.21	ug\L	100

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

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\032300\A23468.D
Acq On : 23 Mar 2000 7:34 pm
Sample : AB89510 5ml DF=1
Misc : 23975/A032100W
MS Integration Params: rteint.p
Quant Time: Mar 23 20:00 2000

Vial: 5
Operator: KJ,TAG
Inst : GC/MS Ins
Multiplr: 1.00

Quant Results File: 032300W.RES

Quant Method : C:\HPCHEM\1\DATA\032300\032300W.M (RTE Integrator)
Title : 8260 CALIBRATION FOR WATER 2/24/2000
Last Update : Mon Mar 13 09:17:29 2000
Response via : Initial Calibration
DataAcq Meth : 032300W

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
86) 1,2,3-Trichlorobenzene	22.27	180	34323	~~5.02 ug\L~~ #	3

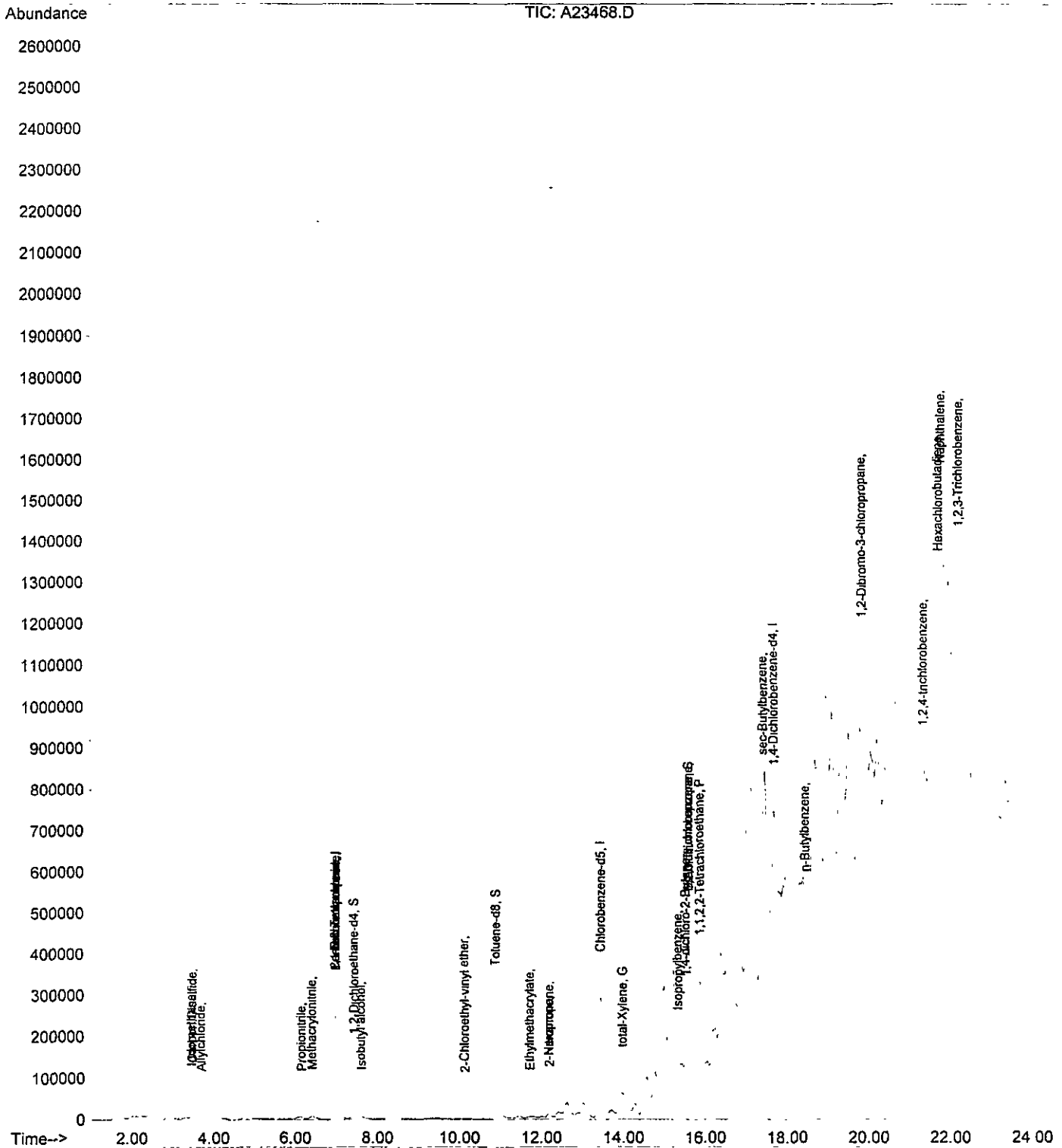
MS 3/27/00

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

Quantitation Report

Data File : C:\HPCHEM\1\DATA\032300\A23468.D Vial: 5
Acq On : 23 Mar 2000 7:34 pm Operator: KJ,TAG
Sample : AB89510 5ml DF=1 Inst : GC/MS Ins
Misc : 23975/A032100W Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Mar 23 20:00 2000 Quant Results File: 032300W.RES

Method : C:\HPCHEM\1\DATA\032300\032300W.M (RTE Integrator)
Title : 8260 CALIBRATION FOR WATER 2/24/2000
Last Update : Wed Mar 08 23:04:31 2000
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\032300\A23469.D Vial: 6
Acq On : 23 Mar 2000 8:06 pm Operator: KJ,TAG
Sample : AB89511 5ml DF=1 Inst : GC/MS Ins
Misc : 23975/A032100W Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Mar 23 20:32 2000 Quant Results File: 032300W.RES

Quant Method : C:\HPCHEM\1\DATA\032300\032300W.M (RTE Integrator)
Title : 8260 CALIBRATION FOR WATER 2/24/2000
Last Update : Mon Mar 13 09:17:29 2000
Response via : Initial Calibration
DataAcq Meth : 032300W

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.01	168	601103 ✓	50.00	ug\L	-0.03
45) Chlorobenzene-d5	13.48	117	540875 ✓	50.00	ug\L	-0.01
61) 1,4-Dichlorobenzene-d4	17.73	152	338902 ✓	50.00	ug\L	0.00
System Monitoring Compounds						
32) 1,2-Dichloroethane-d4	7.46	65	252617	52.25	ug\L	-0.02
Spiked Amount 50.000	Range 80 - 120		Recovery = 104.50% ✓			
46) Toluene-d8	10.92	98	604868	47.98	ug\L	0.00
Spiked Amount 50.000	Range 87 - 104		Recovery = 95.96% ✓			
65) Bromofluorobenzene	15.62	95	443731	51.94	ug\L	-0.01
Spiked Amount 50.000	Range 84 - 110		Recovery = 103.88% ✓			
Target Compounds						Qvalue
5) Bromomethane	2.30	94	2164	~~-5.64 ug\L~~	#	57
6) Chloroethane	2.40	64	570	~~-23.17 ug\L~~	#	40
11) Acetone	3.32	58	28064	135.46 ug\L	not on list	93
13) Allylchloride	3.50	76	133942	~~87.94 ug\L~~	#	1
14) Carbon Disulfide	3.50	76	133942	17.61 ug\L		99
29) Carbon Tetrachloride	7.02	117	65467	~~9.82 ug\L~~	#	7
31) 1,1-Dichloropropene	7.02	75	52739	8.79 ug\L	#	42
34) Isobutyl alcohol	7.65	43	5226	~~124.85 ug\L~~	#	36
36) Trichloroethene	8.30	95	15218	~~2.64 ug\L~~	#	3
42) 2-Chloroethyl-vinyl ether	10.47	63	69	~~5.67 ug\L~~	#	44
59) total-Xylene	14.29	106	10567m	1.81 ug\L	#	
64) 1,4-dichloro-2-Butene	15.49	53	222	~~9.92 ug\L~~	#	1
68) 1,2,3-Trichloropropane	15.62	75	235429	~~46.44 ug\L~~	#	100
76) sec-Butylbenzene	17.42	105	20641	1.01 ug\L		91

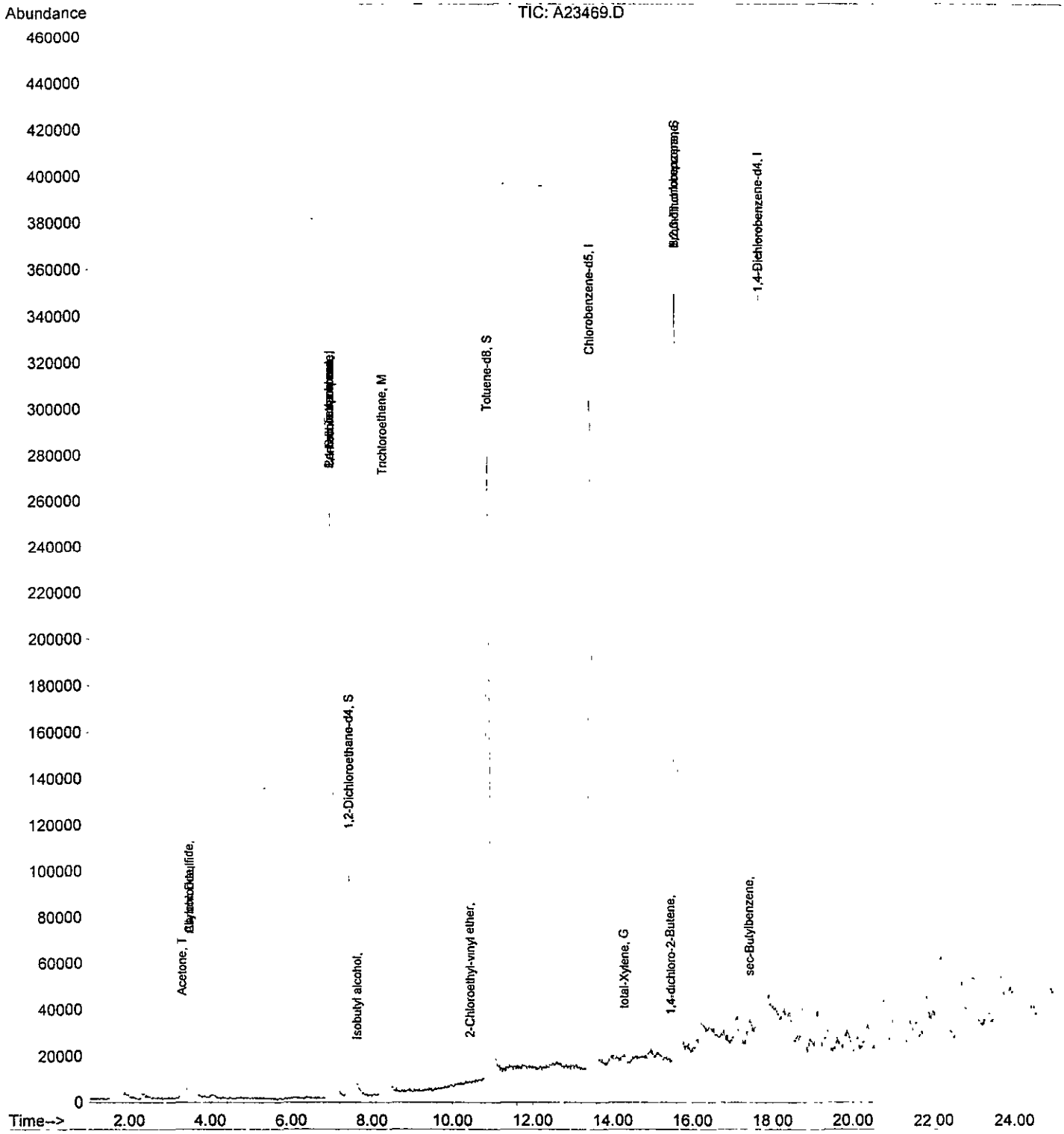
KJ 3/24/00

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

Quantitation Report

Data File : C:\HPCHEM\1\DATA\032300\A23469.D Vial: 6
Acq On : 23 Mar 2000 8:06 pm Operator: KJ,TAG
Sample : AB89511 5ml DF=1 Inst : GC/MS Ins
Misc : 23975/A032100W Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Mar 23 20:32 2000 Quant Results File: 032300W.RES

Method : C:\HPCHEM\1\DATA\032300\032300W.M (RTE Integrator)
Title : 8260 CALIBRATION FOR WATER 2/24/2000
Last Update : Wed Mar 08 23:04:31 2000
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\032400\A23476.D Vial: 4
Acq On : 24 Mar 2000 2:17 pm Operator: KJ,TAG
Sample : AB89512 5ml DF=1 Inst : GC/MS Ins
Misc : 23975/A032300W Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Mar 28 12:09 2000 Quant Results File: 032400W.RES

Quant Method : C:\HPCHEM\1\DATA\032400\032400W.M (RTE Integrator)
Title : 8260 CALIBRATION FOR WATER 2/24/2000
Last Update : Mon Mar 13 09:17:29 2000
Response via : Initial Calibration
DataAcq Meth : 032400W

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Pentafluorobenzene	7.03	168	598769	50.00 ug\L	0.00
45) Chlorobenzene-d5	13.49	117	516634	50.00 ug\L	0.00
61) 1,4-Dichlorobenzene-d4	17.72	152	340538	50.00 ug\L	0.00
System Monitoring Compounds					
32) 1,2-Dichloroethane-d4	7.46	65	246540	51.19 ug\L	-0.02
Spiked Amount 50.000	Range 80 - 120		Recovery = 102.38%		
46) Toluene-d8	10.92	98	589116	48.92 ug\L	0.00
Spiked Amount 50.000	Range 87 - 104		Recovery = 97.84%		
65) Bromofluorobenzene	15.62	95	426047	49.63 ug\L	0.00
Spiked Amount 50.000	Range 84 - 110		Recovery = 99.26%		
Target Compounds					Qvalue
5) Bromomethane	2.35	94	2687	-5.29 ug\L #	28
6) Chloroethane	2.36	64	66	-23.85 ug\L #	40
11) Acetone	3.31	58	653	-10.81 ug\L #	1
13) Allylchloride	3.51	76	41624	27.43 ug\L #	1
14) Carbon Disulfide	3.51	76	41624	5.50 ug\L not on list	99
15) Acetonitrile	3.68	41	2072	3.74 ug\L #	57
23) 2-Butanone	6.04	72	405	-1.41 ug\L #	1
24) Propionitrile	6.16	54	2328	10.25 ug\L #	66
25) Methacrylonitrile	6.43	41	13793	11.10 ug\L not on list	98
29) Carbon Tetrachloride	7.03	117	63613	9.58 ug\L #	6
30) 1,4-Dioxane	9.45	88	620	-5.27 ug\L #	74
31) 1,1-Dichloropropene	7.04	75	52559	8.79 ug\L #	49
34) Isobutyl alcohol	7.64	43	3477	104.08 ug\L #	89
41) 2-Nitropropane	12.31	43	3578	1.78 ug\L #	62
47) Toluene	11.06	92	10551	1.44 ug\L	90
53) 2-Hexanone	12.31	43	3578	1.73 ug\L #	86
59) total-Xylene	14.00	106	11770m	2.11 ug\L	
68) 1,2,3-Trichloropropane	15.62	75	223749	43.92 ug\L #	100
84) Hexachlorobutadiene	21.75	225	7269	1.09 ug\L	100
86) 1,2,3-Trichlorobenzene	22.27	180	10815	1.44 ug\L	97

MS 3/27/00

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

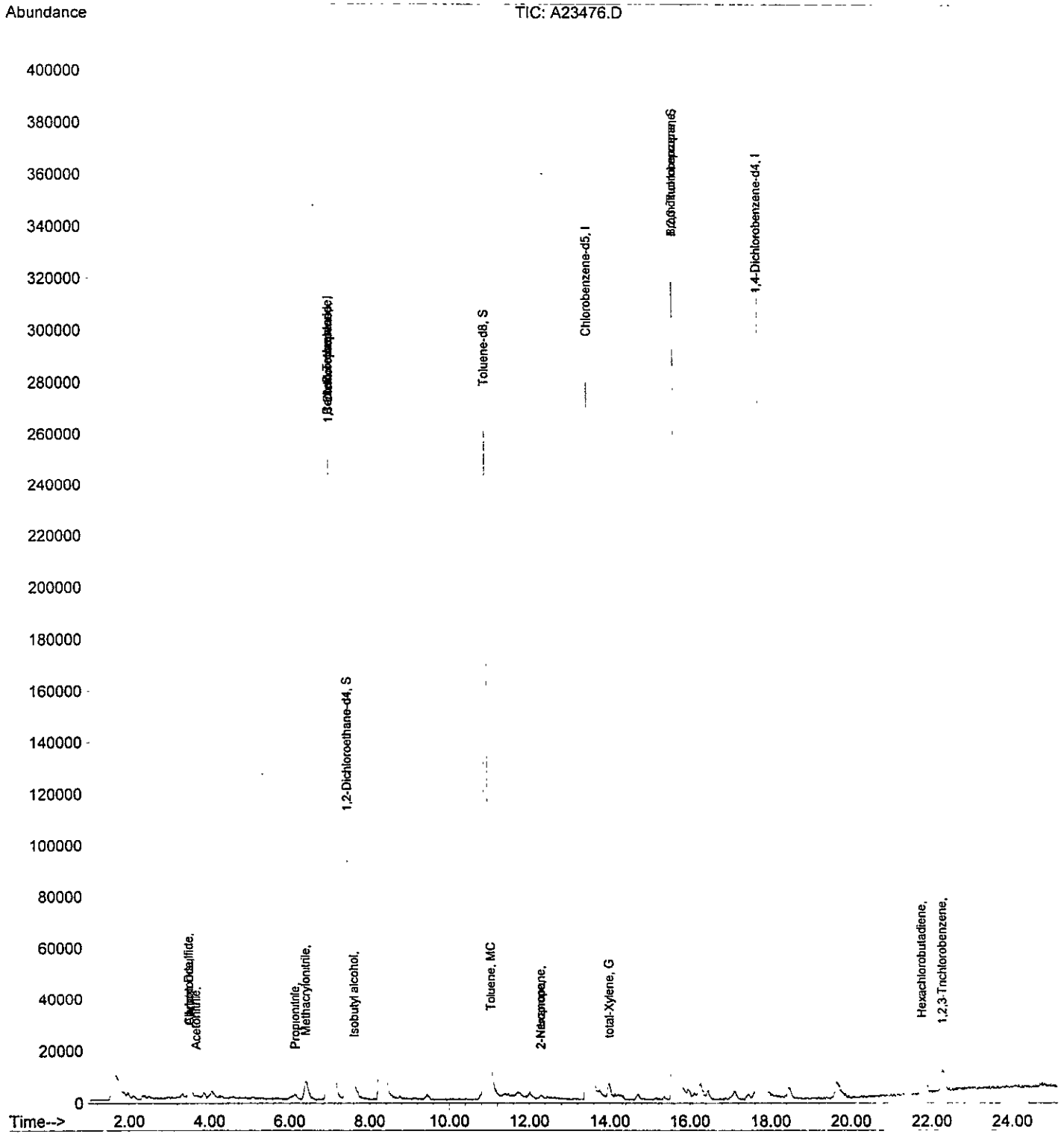
Quantitation Report

Data File : C:\HPCHEM\1\DATA\032400\A23476.D
Acq On : 24 Mar 2000 2:17 pm
Sample : AB89512 5ml DF=1
Misc : 23975/A032300W
MS Integration Params: rteint.p
Quant Time: Mar 28 12:09 2000

Vial: 4
Operator: KJ,TAG
Inst : GC/MS Ins
Multiplr: 1.00

Quant Results File: 032400W.RES

Method : C:\HPCHEM\1\DATA\032400\032400W.M (RTE Integrator)
Title : 8260 CALIBRATION FOR WATER 2/24/2000
Last Update : Wed Mar 08 23:04:31 2000
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\032400\A23479.D Vial: 7
Acq On : 24 Mar 2000 3:53 pm Operator: KJ,TAG
Sample : AB89513 5ml DF=1 Inst : GC/MS Ins
Misc : 23975/A032300W Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Mar 24 16:19 2000 Quant Results File: 032400W.RES

Quant Method : C:\HPCHEM\1\DATA\032400\032400W.M (RTE Integrator)
Title : 8260 CALIBRATION FOR WATER 2/24/2000
Last Update : Mon Mar 13 09:17:29 2000
Response via : Initial Calibration
DataAcq Meth : 032400W

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Pentafluorobenzene	7.02	168	555940	50.00 ug\L	-0.01
45) Chlorobenzene-d5	13.48	117	492158	50.00 ug\L	0.00
61) 1,4-Dichlorobenzene-d4	17.72	152	327769	50.00 ug\L	0.00
System Monitoring Compounds					
32) 1,2-Dichloroethane-d4	7.47	65	233480	52.21 ug\L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 104.42%		
46) Toluene-d8	10.92	98	556579	48.52 ug\L	-0.01
Spiked Amount 50.000	Range 87 - 104		Recovery = 97.04%		
65) Bromofluorobenzene	15.63	95	413228	50.01 ug\L	0.00
Spiked Amount 50.000	Range 84 - 110		Recovery = 100.02%		
Target Compounds					Qvalue
5) Bromomethane	2.30	94	630	-6.64 ug\L #	3
6) Chloroethane	2.42	64	152	-23.71 ug\L #	40
11) Acetone	3.34	58	1452	-5.93 ug\L	94
13) Allylchloride	3.52	76	32264	22.90 ug\L #	1
14) Carbon Disulfide	3.52	76	32264	4.59 ug\L #	not on 85 list
23) 2-Butanone	6.09	72	71	-2.51 ug\L #	1
29) Carbon Tetrachloride	7.01	117	58755	9.53 ug\L #	7
31) 1,1-Dichloropropene	7.01	75	47602	8.58 ug\L #	49
34) Isobutyl alcohol	7.78	43	59	63.07 ug\L #	14
36) Trichloroethene	8.31	95	15432	2.89 ug\L #	3
47) Toluene	11.04	92	10825	1.55 ug\L	89
59) total-Xylene	14.00	106	8989m	1.69 ug\L #	
68) 1,2,3-Trichloropropane	15.63	75	216204	44.10 ug\L #	100
85) Naphthalene	21.84	128	12314	-1.56 ug\L	100

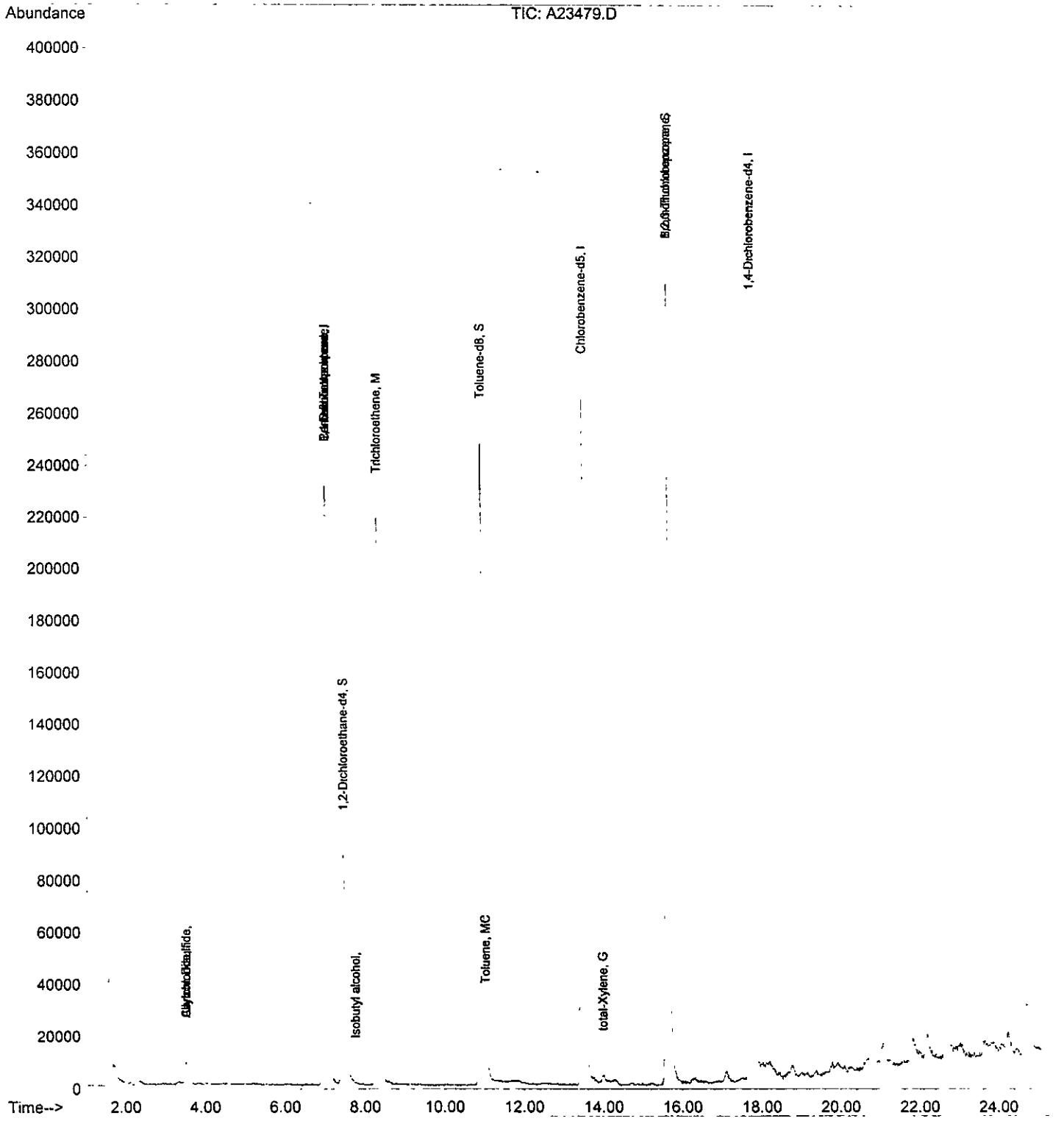
KS 3/27/00

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

Quantitation Report

Data File : C:\HPCHEM\1\DATA\032400\A23479.D Vial: 7
Acq On : 24 Mar 2000 3:53 pm Operator: KJ,TAG
Sample : AB89513 5ml DF=1 Inst : GC/MS Ins
Misc : 23975/A032300W Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Mar 24 16:19 2000 Quant Results File: 032400W.RES

Method : C:\HPCHEM\1\DATA\032400\032400W.M (RTE Integrator)
Title : 8260 CALIBRATION FOR WATER 2/24/2000
Last Update : Wed Mar 08 23:04:31 2000
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\032700\C14157.D Vial: 4
Acq On : 27 Mar 2000 12:22 pm Operator: KJ/TAG
Sample : AB89514 5mL DF=1 Inst : VOC MS #3
Misc : 23975/C032300W Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Mar 27 12:46 2000 Quant Results File: 032700W.RES

Quant Method : C:\HPCHEM\1\DATA\032700\032700W.M (RTE Integrator)
Title : 8260 CALIBRATION FOR WATER 3/12/2000
Last Update : Mon Mar 13 10:07:55 2000
Response via : Initial Calibration
DataAcq Meth : 032700W

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	6.21	168	668017	50.00	ug\L	0.01
45) Chlorobenzene-d5	12.60	117	653497	50.00	ug\L	0.01
61) 1,2-Dichlorobenzene-d4	16.75	152	377126	50.00	ug\L	0.01
System Monitoring Compounds						
32) 1,2-Dichloroethane-d4	6.71	65	228727	47.67	ug\L	0.01
Spiked Amount 50.000	Range 80 - 120		Recovery = 95.34%			
46) Toluene-d8	10.06	98	761997	47.06	ug\L	0.01
Spiked Amount 50.000	Range 87 - 104		Recovery = 94.12%			
65) Bromofluorobenzene	14.70	95	464828	49.24	ug\L	0.00
Spiked Amount 50.000	Range 84 - 110		Recovery = 98.48%			
Target Compounds						Qvalue
11) Acetone	2.87	58	400	-17.26	ug\L #	1
16) Methylene Chloride	3.30	84	20656	4.31	ug\L J	97
21) 2,2-Dichloropropane	5.11	77	331	2.56	ug\L #	51
31) 1,1-Dichloropropene	6.21	75	54979	6.64	ug\L #	50
36) Trichloroethene	7.52	95	17814	2.69	ug\L #	5
47) Toluene	10.18	92	11047	1.08	ug\L J	99
68) 1,2,3-Trichloropropane	14.70	75	210087	36.40	ug\L #	29

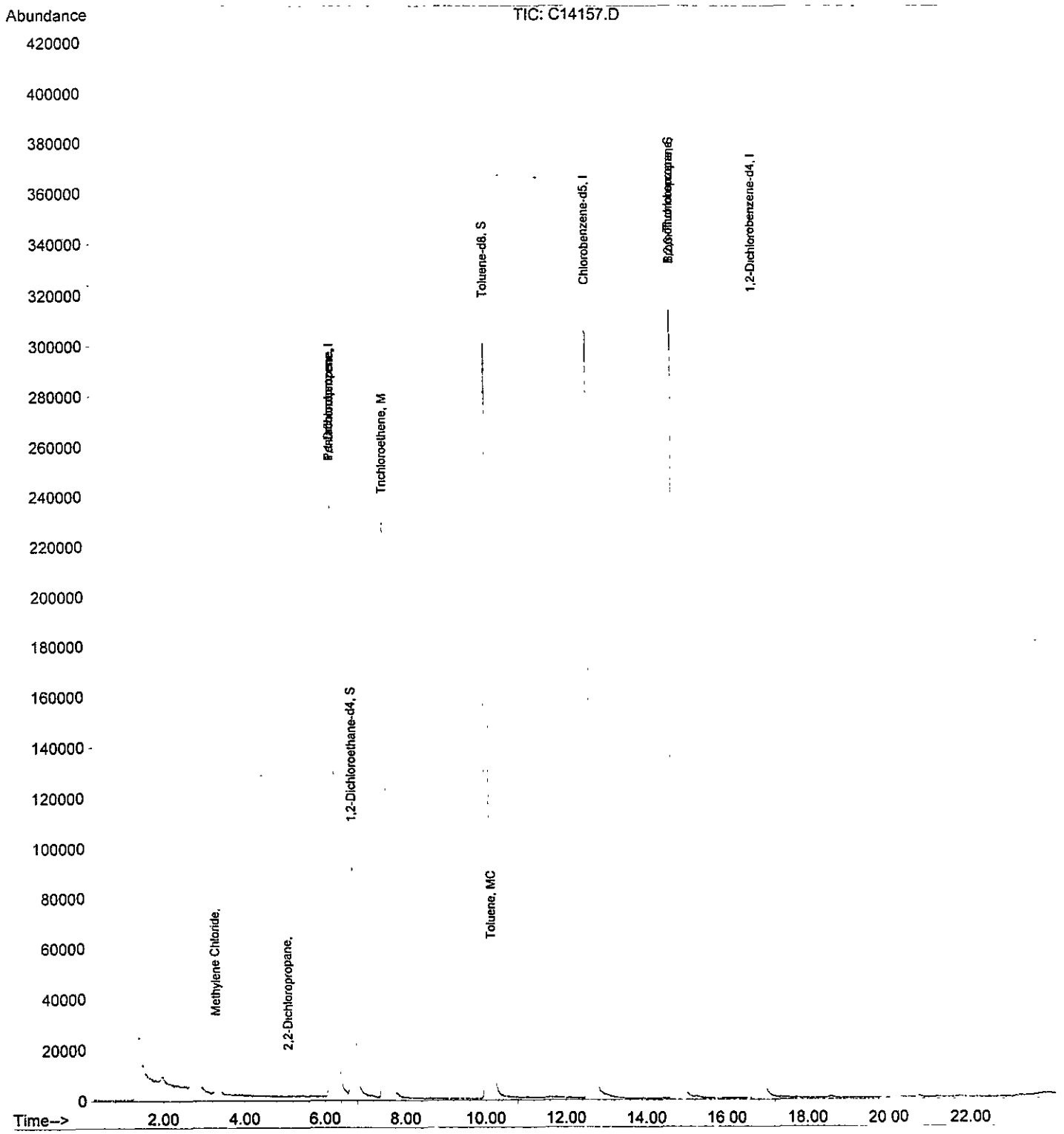
MG 3/27/00

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

Quantitation Report

Data File : C:\HPCHEM\1\DATA\032700\C14157.D Vial: 4
Acq On : 27 Mar 2000 12:22 pm Operator: KJ/TAG
Sample : AB89514 5mL DF=1 Inst : VOC MS #3
Misc : 23975/C032300W Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Mar 27 12:46 2000 Quant Results File: 032700W.RES

Method : C:\HPCHEM\1\DATA\032700\032700W.M (RTE Integrator)
Title : 8260 CALIBRATION FOR WATER 3/12/2000
Last Update : Mon Mar 13 10:07:55 2000
Response via : Initial Calibration



Quantitation Report (Not Reviewed) FILE ONLY

Data File : C:\HPCHEM\1\DATA\032400\A23480.D
Acq On : 24 Mar 2000 4:25 pm
Sample : AB89514 5ml DF=1
Misc : 23975/A032300W
MS Integration Params: rteint.p
Quant Time: Mar 24 16:51 2000

Vial: 8
Operator: KJ,TAG
Inst : GC/MS Ins
Multiplr: 1.00
Quant Results File: 032400W.RES

Quant Method : C:\HPCHEM\1\DATA\032400\032400W.M (RTE Integrator)
Title : 8260 CALIBRATION FOR WATER 2/24/2000
Last Update : Mon Mar 13 09:17:29 2000
Response via : Initial Calibration
DataAcq Meth : 032400W

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Pentafluorobenzene	7.02	168	599262 ✓	50.00 ug\L	-0.02
45) Chlorobenzene-d5	13.49	117	521482 ✓	50.00 ug\L	0.00
61) 1,4-Dichlorobenzene-d4	17.73	152	333269	50.00 ug\L	0.00
System Monitoring Compounds					
32) 1,2-Dichloroethane-d4	7.47	65	252241	52.33 ug\L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 104.66% ✓		
46) Toluene-d8	10.92	98	595168	48.96 ug\L	0.00
Spiked Amount 50.000	Range 87 - 104		Recovery = 97.92%		
65) Bromofluorobenzene	15.64	95	433788	51.63 ug\L	0.00
Spiked Amount 50.000	Range 84 - 110		Recovery = 103.26%		
Target Compounds					Qvalue
5) Bromomethane	2.33	94	1416	~~-6.14 ug\L~~	81
11) Acetone	3.33	58	938	~~-9.29 ug\L~~ #	1
13) Allylchloride	3.51	76	5237	~~3.45 ug\L~~ #	1
23) 2-Butanone	6.08	72	84	~~-2.48 ug\L~~ #	1
29) Carbon Tetrachloride	7.02	117	62919	~~9.47 ug\L~~ #	7
31) 1,1-Dichloropropene	7.02	75	51770	~~8.65 ug\L~~ #	49
34) Isobutyl alcohol	7.91	43	66	~~63.10 ug\L~~ #	31
36) Trichloroethene	8.33	95	17657	~~3.07 ug\L~~ #	3
47) Toluene	11.04	92	12077	1.64 ug\L	98
59) total-Xylene	13.98	106	17235m	3.05 ug\L	
64) 1,4-dichloro-2-Butene	15.52	53	253	~~9.95 ug\L~~ #	1
67) 1,1,2,2-Tetrachloroethane	15.91	83	5917	~~1.05 ug\L~~ #	33
68) 1,2,3-Trichloropropane	15.64	75	232822	~~46.70 ug\L~~ #	100
72) 1,3,5-Trimethylbenzene	16.46	105	16971	1.16 ug\L	95
75) 1,2,4-Trimethylbenzene	17.13	105	69052	4.61 ug\L #	82
85) Naphthalene	21.82	128	277247	24.25 ug\L	100

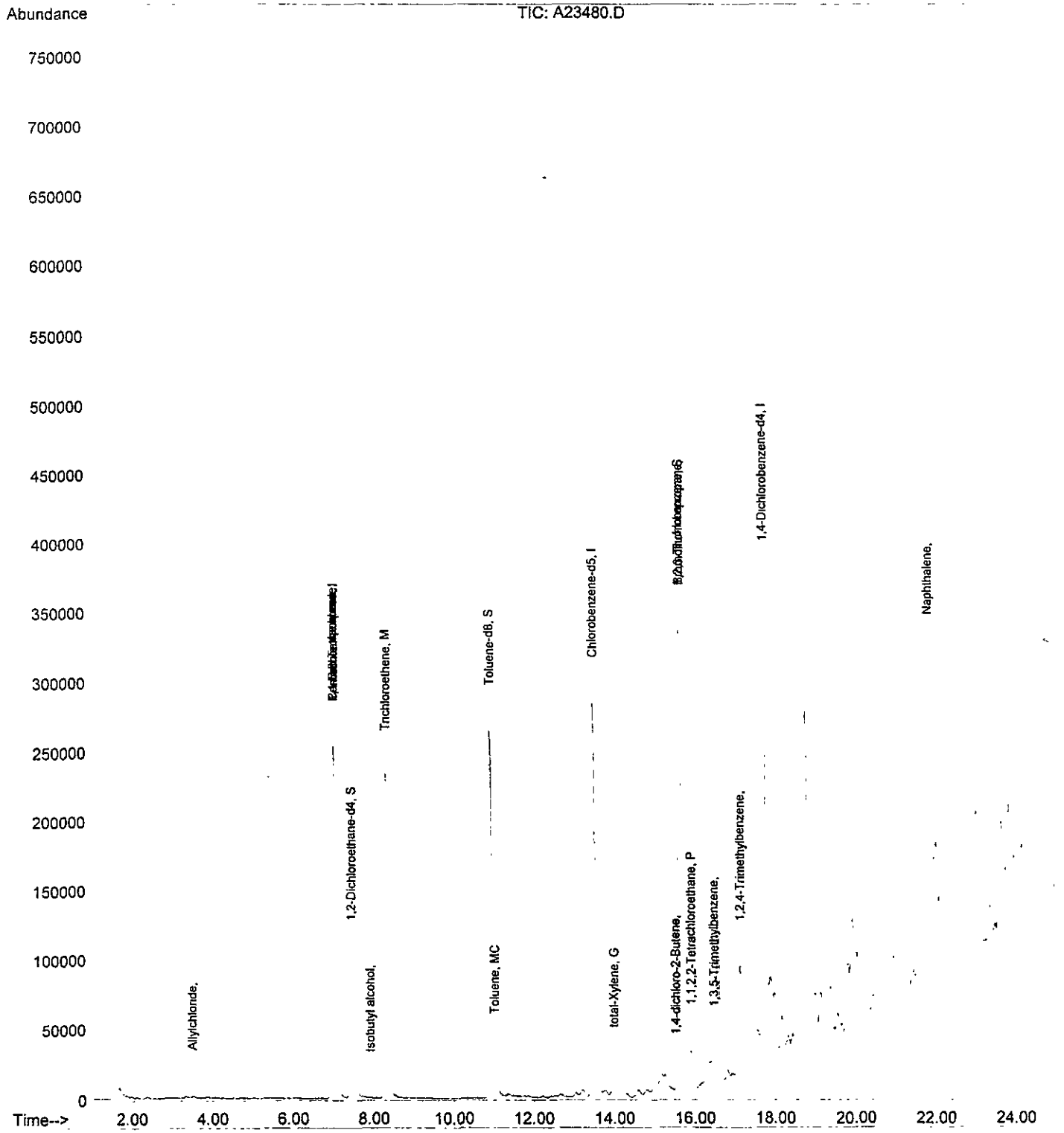
MS 3/27/00

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

Quantitation Report

Data File : C:\HPCHEM\1\DATA\032400\A23480.D Vial: 8
Acq On : 24 Mar 2000 4:25 pm Operator: KJ,TAG
Sample : AB89514 5ml DF=1 Inst : GC/MS Ins
Misc : 23975/A032300W Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Mar 24 16:51 2000 Quant Results File: 032400W.RES

Method : C:\HPCHEM\1\DATA\032400\032400W.M (RTE Integrator)
Title : 8260 CALIBRATION FOR WATER 2/24/2000
Last Update : Wed Mar 08 23:04:31 2000
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\032300\A23450.D
Acq On : 23 Mar 2000 9:45 am
Sample : WATER BLANK 5ml DF=1
Misc : QC
MS Integration Params: rteint.p
Quant Time: Mar 23 10:11 2000

Vial: 2
Operator: KJ,TAG
Inst : GC/MS Ins
Multiplr: 1.00
Quant Results File: 032300W.RES

Quant Method : C:\HPCHEM\1\DATA\032300\032300W.M (RTE Integrator)
Title : 8260 CALIBRATION FOR WATER 2/24/2000
Last Update : Mon Mar 13 09:17:29 2000
Response via : Initial Calibration
DataAcq Meth : 032300W

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Pentafluorobenzene	7.02	168	687457	50.00 ug\L	-0.01
45) Chlorobenzene-d5	13.47	117	582991	50.00 ug\L	-0.01
61) 1,4-Dichlorobenzene-d4	17.71	152	390925	50.00 ug\L	-0.01
System Monitoring Compounds					
32) 1,2-Dichloroethane-d4	7.46	65	264578	47.85 ug\L	-0.01
Spiked Amount 50.000	Range 80 - 120		Recovery = 95.70%		
46) Toluene-d8	10.93	98	688809	50.69 ug\L	0.00
Spiked Amount 50.000	Range 87 - 104		Recovery = 101.38%		
65) Bromofluorobenzene	15.62	95	474913	48.19 ug\L	-0.01
Spiked Amount 50.000	Range 84 - 110		Recovery = 96.38%		

Target Compounds					Qvalue
5) Bromomethane	2.35	94	486	~~-6.81 ug\L~~	92
11) Acetone	3.29	58	82	~~-13.93 ug\L~~ #	1
16) Methylene Chloride	3.85	84	8586	~~2.28 ug\L~~	97 2.3
29) Carbon Tetrachloride	7.01	117	72969	~~9.58 ug\L~~ #	2
31) 1,1-Dichloropropene	7.02	75	55973	~~8.16 ug\L~~ #	42
36) Trichloroethene	8.30	95	17319	~~2.63 ug\L~~ #	3
68) 1,2,3-Trichloropropane	15.62	75	247391	~~42.30 ug\L~~ #	100
85) Naphthalene	21.81	128	5463	~~-2.33 ug\L~~	100

3/23/00

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

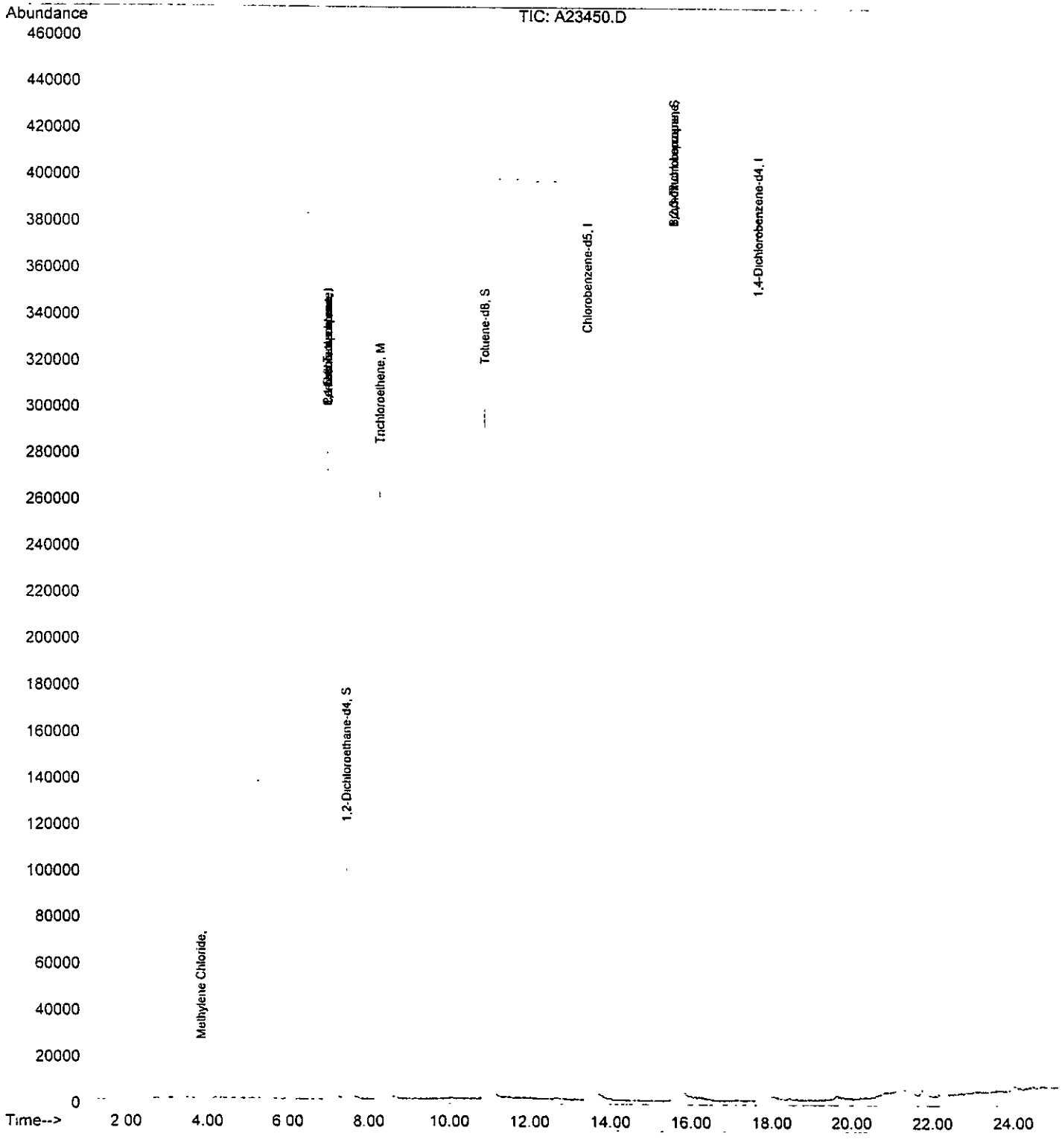
Quantitation Report

Data File : C:\HPCHEM\1\DATA\032300\A23450.D
Acq On : 23 Mar 2000 9:45 am
Sample : WATER BLANK 5ml DF=1
Misc : QC
MS Integration Params: rteint.p
Quant Time: Mar 23 10:11 2000

Vial: 2
Operator: KJ,TAG
Inst : GC/MS Ins
Multiplr: 1.00

Quant Results File: 032300W.RES

Method : C:\HPCHEM\1\DATA\032300\032300W.M (RTE Integrator)
Title : 8260 CALIBRATION FOR WATER 2/24/2000
Last Update : Wed Mar 08 23:04:31 2000
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\032400\A23474.D
Acq On : 24 Mar 2000 1:02 pm
Sample : WATER BLANK 5ml DF=1
Misc : QC
MS Integration Params: rteint.p
Quant Time: Mar 24 13:27 2000

Vial: 2
Operator: KJ,TAG
Inst : GC/MS Ins
Multiplr: 1.00

Quant Results File: 032400W.RES

Quant Method : C:\HPCHEM\1\DATA\032400\032400W.M (RTE Integrator)
Title : 8260 CALIBRATION FOR WATER 2/24/2000
Last Update : Mon Mar 13 09:17:29 2000
Response via : Initial Calibration
DataAcq Meth : 032400W

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.01	168	623394	50.00	ug\L	-0.03
45) Chlorobenzene-d5	13.48	117	535701	50.00	ug\L	0.00
61) 1,4-Dichlorobenzene-d4	17.72	152	348567	50.00	ug\L	0.00
System Monitoring Compounds						
32) 1,2-Dichloroethane-d4	7.46	65	249962	49.85	ug\L	-0.02
Spiked Amount 50.000	Range 80 - 120		Recovery = 99.70%			
46) Toluene-d8	10.92	98	601481	48.17	ug\L	0.00
Spiked Amount 50.000	Range 87 - 104		Recovery = 96.34%			
65) Bromofluorobenzene	15.62	95	434739	49.48	ug\L	0.00
Spiked Amount 50.000	Range 84 - 110		Recovery = 98.96%			
Target Compounds						Qvalue
5) Bromomethane	2.32	94	2081	-5.75	ug\L	94
6) Chloroethane	2.47	64	60	-23.86	ug\L #	40
11) Acetone	3.33	58	71	-13.95	ug\L #	1
12) Iodomethane	3.44	142	7837	1.38	ug\L #	41
29) Carbon Tetrachloride	7.02	117	65459	9.47	ug\L #	5
31) 1,1-Dichloropropene	7.00	75	53567	8.61	ug\L #	46
34) Isobutyl alcohol	7.65	43	60	63.00	ug\L #	51
36) Trichloroethene	8.31	95	16873	2.82	ug\L #	3
59) total-Xylene	14.28	106	7210m	1.24	ug\L #	
68) 1,2,3-Trichloropropane	15.62	75	226710	43.48	ug\L #	100
85) Naphthalene	21.81	128	12080	-1.65	ug\L	100

KB 3/24/00

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

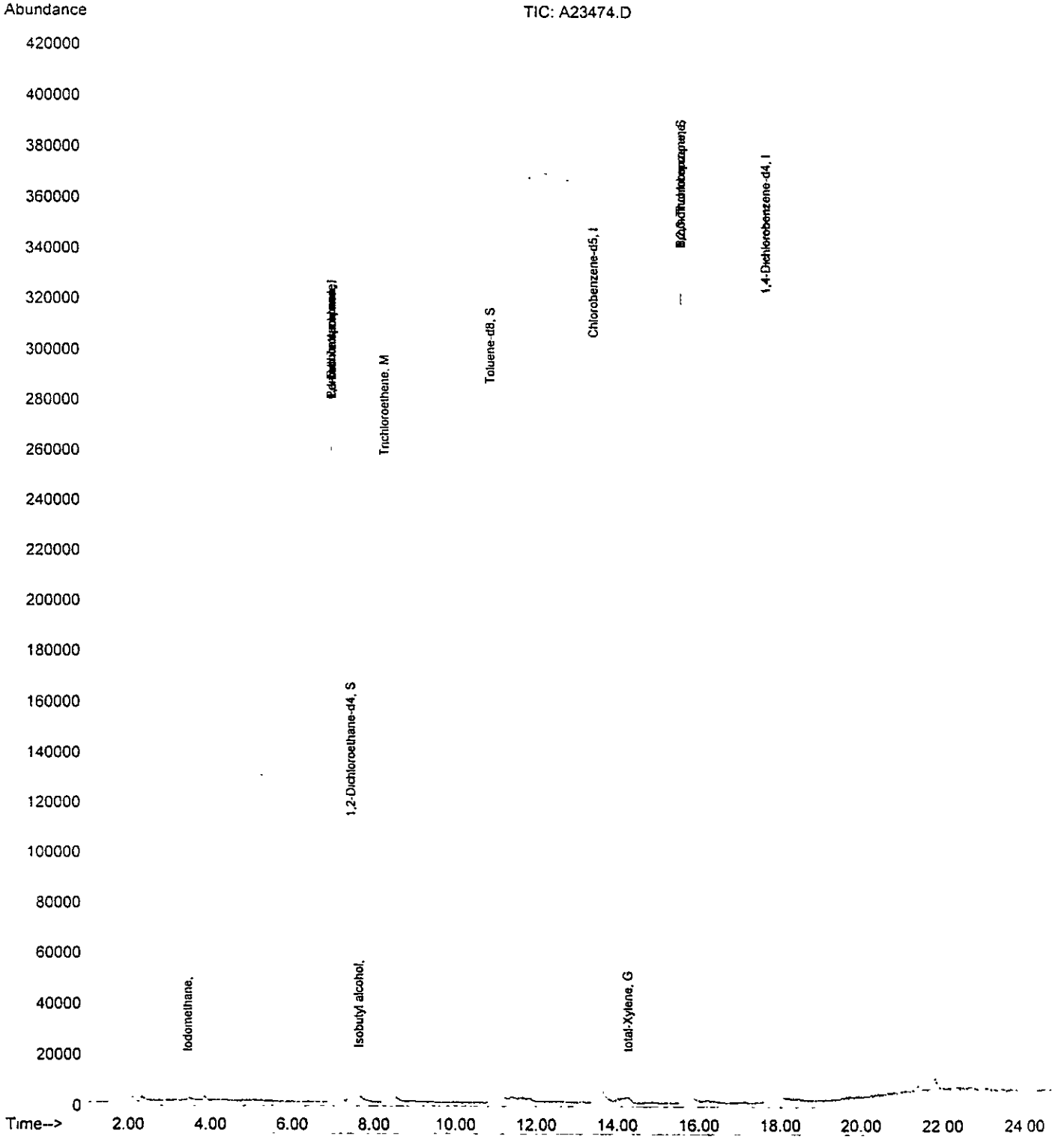
Quantitation Report

Data File : C:\HPCHEM\1\DATA\032400\A23474.D
Acq On : 24 Mar 2000 1:02 pm
Sample : WATER BLANK 5ml DF=1
Misc : QC
MS Integration Params: rteint.p
Quant Time: Mar 24 13:27 2000

Vial: 2
Operator: KJ,TAG
Inst : GC/MS Ins
Multiplr: 1.00

Quant Results File: 032400W.RES

Method : C:\HPCHEM\1\DATA\032400\032400W.M (RTE Integrator)
Title : 8260 CALIBRATION FOR WATER 2/24/2000
Last Update : Wed Mar 08 23:04:31 2000
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\032700\C14155.D Vial: 2
Acq On : 27 Mar 2000 11:20 am Operator: KJ/TAG
Sample : WATER BLANK 5mL DF=1 Inst : VOC MS #3
Misc : QC Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Mar 27 11:45 2000 Quant Results File: 032700W.RES

Quant Method : C:\HPCHEM\1\DATA\032700\032700W.M (RTE Integrator,
Title : 8260 CALIBRATION FOR WATER 3/12/2000
Last Update : Mon Mar 13 10:07:55 2000
Response via : Initial Calibration
DataAcq Meth : 032700W

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	6.19	168	845579 ✓	50.00	ug\L	0.00
45) Chlorobenzene-d5	12.60	117	783071 ✓	50.00	ug\L	0.00
61) 1,2-Dichlorobenzene-d4	16:74	152	430205 ✓	50.00	ug\L	0.00
System Monitoring Compounds						
32) 1,2-Dichloroethane-d4	6.69	65	269014	44.29	ug\L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery = 88.58% ✓			
46) Toluene-d8	10.05	98	935740	48.22	ug\L	0.00
Spiked Amount 50.000	Range 87 - 104		Recovery = 96.44% ✓			
65) Bromofluorobenzene	14.70	95	533372	49.53	ug\L	0.00
Spiked Amount 50.000	Range 84 - 110		Recovery = 99.06% ✓			

Target Compounds					Qvalue
21) 2,2-Dichloropropane	5.14	77	166	~~2.53 ug\L~~ #	51
30) 1,4-Dioxane	8.66	88	64	~~54.83 ug\L~~ #	24
31) 1,1-Dichloropropene	6.19	75	67682	~~6.46 ug\L~~ #	51
36) Trichloroethene	7.49	95	23449	~~2.80 ug\L~~ #	5
49) Ethylmethacrylate	10.86	69	133	~~5.39 ug\L~~ #	76
68) 1,2,3-Trichloropropane	14.70	75	242107	~~36.73 ug\L~~ #	29
85) Naphthalene	20.74	128	27469	~~2.18 ug\L~~	100
86) 1,2,3-Trichlorobenzene	21.18	180	7692	~~1.09 ug\L~~	92

KW 3/27/00

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

Quantitation Report

Data File : C:\HPCHEM\1\DATA\032700\C14155.D
Acq On : [illegible] 11:20 am
Sample : WATER BLANK 5mL DF=1
Misc : OC
MS Integration Params: rteint.p
Quant Time: Mar 27 11:45 2000

Method : C:\HPCHEM\1\DATA\032700\032700W.M (RTE Integrator)
Title : 8260 CALIBRATION FOR WATER 3/12/2000
Last Update : Mon Mar 13 10:07:55 2000
Response via : Initial Calibration

TIC: C14155.D

Abundance

460000
440000
420000
400000
380000
360000
340000
320000
300000
280000
260000
240000
220000
200000
180000
160000
140000
120000
100000
80000
60000
40000
20000
0

2,2-Dichloropropane,
1,2-Dichloroethane-d4, S
Trichloroethene, M
1,4-Dioxane,
Toluene-d8, S
Ethylmethacrylate,
Chlorobenzene-d5, I
1,2-Dichlorobenzene-d4, I
Naphthalene, T
1,2,3-Trichlorobenzene,

Time-->
2.00 4.00 6.00 8.00 10.00 12.00 14.00 16.00 18.00 20.00 22.00

SPECIALIZED ASSAYS INC. • 2960 Foster Creighton Dr. • P.O. Box 40566 • Nashville, Tennessee 37204-0566
615-726-0177 • 1-800-765-0980 • Fax 615-726-3404

CCI NAVY RAC PMO
MAY 8 2000

CASE NARRATIVE
April 19, 2000

Client: **Accura Analytical 2656**
6017 Financial Drive
Norcross, GA 30071

Client Project: 23975

Matrix: WATER

Laboratory Project: 184949

Number Samples: 15

Date Received: 3/23/00

Date Collected: 3/20/00

Sample Receipt Notes: Samples were properly preserved and received on 3/23/00. Analyses were extracted and performed within method required holding times following Test Methods for Evaluating Solid Waste, Physical/Chemical Methods (SW-846). Package was completed as a 'Level IV'.

QC Notes:

Polyaromatic Hydrocarbons (PAH's) SW 8310- BATCH 7429

Fifteen water samples (SAI #'s 00-A38718-32) were extracted and analyzed for PAH's by Method SW846 8310. The extracted method blank was non-detect for target compounds. One surrogate was added during the extraction procedure- p-Terphenyl-d14. All surrogate % recoveries (Form 2A) were acceptable. Reagent water was analyzed as the matrix spike/matrix spike duplicate. All QC results were acceptable Blank and initial/continuing calibration data are available in the raw data section. Raw data is unavailable for the initial PAH curve from 1-25-00 due to inability to 'retrieve from archive; however, a summary form is provided for the initial curve for both the UV and Flourescence channels. All initial and continuing calibration requirements were met. A run log and extraction data are available at the end of the raw data section.

As you review this data package, please call me if you require any additional information at # 1-800-765-0980 (ext. 265).

Thank you.

Sincerely,

Kelly S. Ruppel

Kelly S. Ruppel
Technical Services
Test America, Inc.

184949

ACCURA ANALYTICAL LABORATORY, INC.

Environmental Analytical Services

Results Due 3/29

SUBCONTRACTOR CHAIN OF CUSTODY

SUBCONTRACTED TO: Specialized Assay

Subcontracted by: ACCURA ANALYTICAL LABORATORY, INC

Address: 6017 Financial Drive, Norcross, GA 30071

Accura Lab Contact Name: Jeff Wilmoth

Contact Phone # (770) 449 - 8800,

Fax Number: (770) 449 - 5477

AAL PROJECT # 23975

For Laboratory Use Only

Custody Seal: Y N Page ____ OF ____

QC Level: N 1 2 3 4 Init/Temp: ____

Entered into LIMS: ____ LAB Project # ____

Sample Condition: ____

AAL #	Sample Date / Time	Comp	Grab	Matrix	Preserved	Station Location:	No. of Containers	ADH (8310)	Remarks	LAB #
* AB 89497	3-20-00 / 17:31			W			1	X	38718	
AB 89498	16:05						1	X	19	
# AB 89499	14:10						1	X	20	
AB 89500	15:05						1	X	21	
AB 89501	14:25						1	X	22	
AB 89502	16:55						1	X	23	
AB 89503	16:35						1	X	24	
AB 89504	16:20						1	X	25	
AB 89505	17:05						1	X	26	
AB 89506	16:45						1	X	38727	

Relinquished By:	Date / Time	Received By:	Date / Time	Special Requirements Or Remarks:
Mike Patton	3/22/00	M Eller	3/22/00	PLEASE FAX RESULTS!!
Relinquished By:	Date / Time	Received By:	Date / Time	Turnaround Time Requested:
			3.23.00 0900	1 week

002

184949 ACCURA ANALYTICAL LABORATORY, INC.

Environmental Analytical Services

Results Due 3/29

SUBCONTRACTOR CHAIN OF CUSTODY

SUBCONTRACTED TO: Specialized Assay

Subcontracted by: ACCURA ANALYTICAL LABORATORY, INC

Address: 6017 Financial Drive, Norcross, GA 30071

Accura Lab Contact Name: Jeff Wilmoth

Contact Phone # (770) 449 - 8800,

Fax Number: (770) 449 - 5477

AAL PROJECT # 23975

For Laboratory Use Only

Custody Seal: Y N Page ____ OF ____

QC Level: N 1 2 3 4 Init/Temp: ____

Entered into LIMS: ____ LAB Project # ____

Sample Condition: ____

AAL #	Sample Date / Time	Comp	Grab	Matrix	Preserved	Station Location:	No. of Containers	PAH (8310)	Remarks	LAB #
AB 89507	3-20-00 / 15:55			W			1	X	38728	
AB 89508	13:45						1	X	29	
AB 89509	14:45						1	X	30	
AB 89510	14:30						1	X	31	
AB 89511	14:55						1	X	38732	
AB										
AB										
AB										
AB										
AB										

Relinquished By:	Date / Time	Received By:	Date / Time	Special Requirements Or Remarks:
Mike Patton	3/22/00	M Eller	3/22/00	PLEASE FAX RESULTS!!
Relinquished By:	Date / Time	Received By:	Date / Time	Turnaround Time Requested:
		C. Wilmoth	3/23/00 0900	1 week

003

COOLER RECEIPT FORM

Client: Accura Analytical Labs **BC#** 184949

Cooler Received On: 3.23.00 **And Opened On:** 3.23.00 **By:** Chris Wilmoth

Chris Wilmoth
(Signature)

1. Temperature of Cooler when opened 4 Degrees Celsius
2. Were custody seals on outside of cooler and intact?.....YES (NO)
   a. If yes,how many,what kind and where:_____
   b. Were the signature and date correct?.....YES (NO)
3. Were custody seals on containers and intact?.....YES NO
4. Were custody papers inside cooler?.....(YES) NO
5. Were custody papers properly filled out (ink,signed,etc)?.....(YES) NO
6. Did you sign the custody papers in the appropriate place?.....(YES) NO
7. What kind of packing material used? (Bubblewrap) Peanuts Vermiculite Other None
8. Was sufficient ice used (if appropriate)?.....(YES) NO
9. Did all bottles arrive in good condition(unbroken)?.....(YES) NO
10. Were all bottle labels complete (#,date,signed,pres,etc)?.....(YES) NO
11. Did all bottle labels and tags agree with custody papers?.....(YES) NO
12. Were correct bottles used for the analysis requested?.....(YES) NO
13. If present, were VOA vials checked for absence of air bubbles and noted if found?.....YES NO
14. Was sufficient amount of sample sent in each bottle?.....(YES) NO
15. Were correct preservatives used?.....YES NO
16. Corrective action taken, if necessary:
    a. Name of person contacted:_____
    b. Date:_____

POLYAROMATIC HYDROCARBONS (PAH's)
SW846 8310

SUMMARY DATA

SPECIALIZED ASSAYS, INC
2960 FOSTER CREIGHTON DRIVE
NASHVILLE, TN 37204
1-800-765-0980

1C

8310 PAH ANALYSIS DATA SHEET

SAMPLE NO. 006

WBLK01

Lab Name: Specialized Assays Contract:

SDG #: 184949 Location: Group:

Matrix: (soil/water) water Lab Sample ID: 7358 WBB

Sample wt/vol: 1000.0 (g/mL) mL Lab File ID: 0326lc3.013

Level: (low/med) low Date Analyzed: 3/26

% Moisture: 0 Date Received: 3/23/00

HPLC Column: Vydac C18 D: 4.60 (mm) Dilution Factor: 1

Extract Volume: 1000 (uL) Injection Volume: 5.0 (uL)

Extraction Date: 03/24/00

Concentration Units:

CAS No.	Compound		ug/L	ug/L	Q
	Napthalene		1.000		U
	1-Methyl-naphthalene				~~U~~
	2-Methyl-naphthalene				~~U~~
	Acenapthylene		2.000		U
	Acenapthene		1.000		U
	Flourene		0.210		U
	Phenanthrene		0.640		U
	Anthracene		0.660		U
	Flouranthene		0.210		U
	Pyrene		0.270		U
	Benzo(a)anthracene		0.130		U
	Chrysene		0.150		U
	Benzo(b)flouranthene		0.180		U
	Benzo(k)flouranthene		0.170		U
	Benzo(a)pyrene		0.100		U
	Dibenz(ah)anthracene		0.300		U
	Benzo(ghi)Perylene		0.760		U
	Indeno(123cd)pyrene		0.430		U

NR NR 4-19-00 lqc

SPECIALIZED ASSAYS, INC.
2960 Foster Creighton Dr.
P.O. Box 40566
Nashville, TN 37204-0566
Phone 1-615-726-0177

Sample Identification

AB89497

Matrix: Water
pH.
Units. ug/l
Dilution Factor: 1
Analysis Method: SW831C
Delivery Group 184949
Instrument.
Vol Extracted. 970 ml
Extract Vol 1 00 ml

Lab Sample ID: 00-A38718
Date Sampled:: 3/20/00
Date Received: 3/23/00
Analysis Date: 3/26/00
Analysis Time: 22:03
Sample QC Group: 7429

Extraction Date: 3/24/00

FORM I-

CAS NUMBER	ANALYTE	CONCENTRATION	FLAG
91-20-3	Naphthalene	1.03	U
83-32-9	Acenapthene	1.03	U
120-12-7	Anthracene	0.68	U
206-44-0	Fluoranthene	0.22	U
7782-41-4	Fluorene	0.22	U
129-00-0	Pyrene	0.28	U
56-55-3	Benzo(a)anthracene	0.13	U
50-32-8	Benzo(a)pyrene	0.1	U
205-99-2	Benzo(b)fluoranthene	0.19	U
207-08-9	Benzo(k)fluoranthene	0.18	U
218-01-9	Chrysene	0.15	U
53-70-3	Dibenzo(a,h)anthracene	0 31	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.44	U
208-96-8	Acenaphthylene	2.06	U
191-24-2	Benzo(g,h,i)perylene	0 78	U
85-01-8	Phenanthrene	0.66	U

SPECIALIZED ASSAYS, INC.
2960 Foster Creighton Dr.
P.O. Box 40566
Nashville, TN 37204-0566
Phone 1-615-726-0177

Sample Identification

AB89498

Matrix: Water
pH.
Units ug/l
Dilution Factor: 1.
Analysis Method: SW8310
Delivery Group: 184949
Instrument:
Vol Extracted: 970 ml
Extract Vol 1 00 ml

Lab Sample ID: 00-A38719
Date Sampled:: 3/20/00
Date Received: 3/23/00
Analysis Date: 3/26/00
Analysis Time: 22:03
Sample QC Group: 7429

Extraction Date: 3/24/00

FORM I

CAS NUMBER	ANALYTE	CONCENTRATION	FLAG
91-20-3	Naphthalene	1.03	U
83-32-9	Acenaphthene	1.03	U
120-12-7	Anthracene	0.68	U
206-44-0	Fluoranthene	0.22	U
7782-41-4	Fluorene	0.22	U
129-00-0	Pyrene	0.28	U
56-55-3	Benzo(a)anthracene	0.13	U
50-32-8	Benzo(a)pyrene	0.1	U
205-99-2	Benzo(b)fluoranthene	0.19	U
207-08-9	Benzo(k)fluoranthene	0.18	U
218-01-9	Chrysene	0.15	U
53-70-3	Dibenzo(a,h)anthracene	0.31	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.44	U
208-96-8	Acenaphthylene	2.06	U
191-24-2	Benzo(g,h,i)perylene	0.78	U
85-01-8	Phenanthrene	0.66	U

SPECIALIZED ASSAYS, INC.
2960 Foster Creighton Dr.
P.O. Box 40566
Nashville, TN 37204-0566
Phone 1-615-726-0177

Sample Identification

AB89499

Matrix: Water
pH:
Units: ug/l
Dilution Factor: 1
Analysis Method: SW8310
Delivery Group: 184949
Instrument:
Vol Extracted 970. ml
Extract Vol. 1.00 ml

Lab Sample ID: 00-A38720
Date Sampled:: 3/20/00
Date Received: 3/23/00
Analysis Date: 3/26/00
Analysis Time: 22:03
Sample QC Group: 7429

Extraction Date: 3/24/00

FORM I

CAS NUMBER	ANALYTE	CONCENTRATION	FLAG
91-20-3	Naphthalene	3.68	
83-32-9	Acenapthene	1.03	U
120-12-7	Anthracene	0.68	U
206-44-0	Fluoranthene	0.22	U
7782-41-4	Fluorene	0.22	U
129-00-0	Pyrene	0.28	U
56-55-3	Benzo(a)anthracene	0.13	U
50-32-8	Benzo(a)pyrene	0.1	U
205-99-2	Benzo(b)fluoranthene	0.19	U
207-08-9	Benzo(k)fluoranthene	0.18	U
218-01-9	Chrysene	0.15	U
53-70-3	Dibenzo(a,h)anthracene	0.31	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.44	U
208-96-8	Acenaphthylene	2.06	U
191-24-2	Benzo(g,h,i)perylene	0.78	U
85-01-8	Phenanthrene	0.66	U

SPECIALIZED ASSAYS, INC.
2960 Foster Creighton Dr.
P.O. Box 40566
Nashville, TN 37204-0566
Phone 1-615-726-0177

Sample Identification

AB89500

Matrix: Water
pH:
Units: ug/l
Dilution Factor: 5.
Analysis Method: SW8310
Delivery Group: 184949
Instrument:
Vol Extracted: 970. ml
Extract Vol: 1.00 ml

Lab Sample ID: 00-A38721
Date Sampled:: 3/20/00
Date Received: 3/23/00
Analysis Date: 3/26/00
Analysis Time: 22:03
Sample QC Group: 7429

Extraction Date: 3/24/00

FORM I

CAS NUMBER	ANALYTE	CONCENTRATION	FLAG
91-20-3	Naphthalene	58.2	
83-32-9	Acenapthene	1.03	U
120-12-7	Anthracene	0.68	U
206-44-0	Fluoranthene	0.22	U
7782-41-4	Fluorene	0.22	U
129-00-0	Pyrene	0.28	U
56-55-3	Benzo(a)anthracene	0.13	U
50-32-8	Benzo(a)pyrene	0.1	U
205-99-2	Benzo(b)fluoranthene	0.19	U
207-08-9	Benzo(k)fluoranthene	0.18	U
218-01-9	Chrysene	0.15	U
53-70-3	Dibenzo(a,h)anthracene	0.31	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.44	U
208-96-8	Acenaphthylene	2.06	U
191-24-2	Benzo(g,h,i)perylene	0.78	U
85-01-8	Phenanthrene	0.66	U

SPECIALIZED ASSAYS, INC.
2960 Foster Creighton Dr.
P.O. Box 40566
Nashville, TN 37204-0566
Phone 1-615-726-0177

Sample Identification

AB89501

Matrix: Water
pH:
Units: ug/l
Dilution Factor: 1.
Analysis Method SW8310
Delivery Group. 184949
Instrument:
Vol Extracted 970. ml
Extract Vol. 1.00 ml

Lab Sample ID: 00-A38722
Date Sampled:: 3/20/00
Date Received: 3/23/00
Analysis Date: 3/26/00
Analysis Time: 22:03
Sample QC Group: 7429

Extraction Date: 3/24/00

FORM I

CAS NUMBER	ANALYTE	CONCENTRATION	FLAG
91-20-3	Naphthalene	1.03	U
83-32-9	Acenapthene	1.03	U
120-12-7	Anthracene	0.68	U
206-44-0	Fluoranthene	0.22	U
7782-41-4	Fluorene	0.22	U
129-00-0	Pyrene	0.28	U
56-55-3	Benzo(a)anthracene	0.13	U
50-32-8	Benzo(a)pyrene	0.1	U
205-99-2	Benzo(b)fluoranthene	0.19	U
207-08-9	Benzo(k)fluoranthene	0.18	U
218-01-9	Chrysene	0.15	U
53-70-3	Dibenzo(a,h)anthracene	0.31	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.44	U
208-96-8	Acenaphthylene	2.06	U
191-24-2	Benzo(g,h,i)perylene	0.78	U
85-01-8	Phenanthrene	0.66	U

SPECIALIZED ASSAYS, INC.
2960 Foster Creighton Dr.
P.O. Box 40566
Nashville, TN 37204-0566
Phone 1-615-726-0177

Sample Identification

AB89502

Matrix: Water
pH:
Units: ug/l
Dilution Factor: 1.
Analysis Method: SW8310
Delivery Group: 184949
Instrument:
Vol Extracted 970. ml
Extract Vol: 1.00 ml

Lab Sample ID: 00-A38723
Date Sampled:: 3/20/00
Date Received: 3/23/00
Analysis Date: 3/26/00
Analysis Time: 22:03
Sample QC Group: 7429

Extraction Date: 3/24/00

FORM I

CAS NUMBER	ANALYTE	CONCENTRATION	FLAG
91-20-3	Naphthalene	8.88	
83-32-9	Acenapthene	1.03	U
120-12-7	Anthracene	0.68	U
206-44-0	Fluoranthene	0.22	U
7782-41-4	Fluorene	0.22	U
129-00-0	Pyrene	0.28	U
56-55-3	Benzo(a)anthracene	0.13	U
50-32-8	Benzo(a)pyrene	0.1	U
205-99-2	Benzo(b)fluoranthene	0.19	U
207-08-9	Benzo(k)fluoranthene	0.18	U
218-01-9	Chrysene	0.15	U
53-70-3	Dibenzo(a,h)anthracene	0.31	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.44	U
208-96-8	Acenaphthylene	2.06	U
191-24-2	Benzo(g,h,i)perylene	0.78	U
85-01-8	Phenanthrene	0.66	U

SPECIALIZED ASSAYS, INC.
2960 Foster Creighton Dr.
P.O. Box 40566
Nashville, TN 37204-0566
Phone 1-615-726-0177

Sample Identification

AB89503

Matrix: Water
pH:
Units: ug/l
Dilution Factor: 1.
Analysis Method: SW8310
Delivery Group. 184949
Instrument.
Vol Extracted 980. ml
Extract Vol 1.00 ml

Lab Sample ID: 00-A38724
Date Sampled:: 3/20/00
Date Received: 3/23/00
Analysis Date: 3/26/00
Analysis Time: 22:03
Sample GC Group: 7429

Extraction Date: 3/24/00

FORM I

CAS NUMBER	ANALYTE	CONCENTRATION	FLAG
91-20-3	Naphthalene	1.02	U
83-32-9	Acenapthene	1.02	U
120-12-7	Anthracene	0.67	U
206-44-0	Fluoranthene	0.21	U
7782-41-4	Fluorene	0.21	U
129-00-0	Pyrene	0.28	U
56-55-3	Benzo(a)anthracene	0.13	U
50-32-8	Benzo(a)pyrene	0.1	U
205-99-2	Benzo(b)fluoranthene	0.18	U
207-08-9	Benzo(k)fluoranthene	0.17	U
218-01-9	Chrysene	0.15	U
53-70-3	Dibenzo(a,h)anthracene	0.31	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.44	U
208-96-8	Acenaphthylene	2.04	U
191-24-2	Benzo(g,h,i)perylene	0.78	U
85-01-8	Phenanthrene	0.65	U

SPECIALIZED ASSAYS, INC.
2960 Foster Creighton Dr.
P.O. Box 40566
Nashville, TN 37204-0566
Phone 1-615-726-0177

Sample Identification

AB89504

Matrix: Water
pH.
Units: ug/l
Dilution Factor: 1.
Analysis Method: SW8310
Delivery Group: 184949
Instrument:
Vol Extracted 980. ml
Extract Vol 1.00 ml

Lab Sample ID: 00-A38725
Date Sampled:: 3/20/00
Date Received: 3/23/00
Analysis Date: 3/26/00
Analysis Time: 22:03
Sample QC Group: 7429

Extraction Date: 3/24/00

FORM I

CAS NUMBER	ANALYTE	CONCENTRATION	FLAG
91-20-3	Naphthalene	1.02	U
83-32-9	Acenapthene	1.02	U
120-12-7	Anthracene	0.67	U
206-44-0	Fluoranthene	0.21	U
7782-41-4	Fluorene	0.21	U
129-00-0	Pyrene	0.28	U
56-55-3	Benzo(a)anthracene	0.13	U
50-32-8	Benzo(a)pyrene	0.1	U
205-99-2	Benzo(b)fluoranthene	0.18	U
207-08-9	Benzo(k)fluoranthene	0.17	U
218-01-9	Chrysene	0.15	U
53-70-3	Dibenzo(a,h)anthracene	0.31	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.44	U
208-96-8	Acenaphthylene	2.04	U
191-24-2	Benzo(g,h,i)perylene	0.78	U
85-01-8	Phenanthrene	0.65	U

SPECIALIZED ASSAYS, INC.
2960 Foster Creighton Dr.
P.O. Box 40566
Nashville, TN 37204-0566
Phone 1-615-726-0177

Sample Identification

AB89505

Matrix: Water
pH.
Units: ug/l
Dilution Factor. 1.
Analysis Method: SW8310
Delivery Group: 184949
Instrument
Vol Extracted: 980. ml
Extract Vol 1 00 ml

Lab Sample ID: 00-A38726
Date Sampled:: 3/20/00
Date Received: 3/23/00
Analysis Date: 3/26/00
Analysis Time: 22:03
Sample QC Group: 7429

Extraction Date: 3/24/00

FORM I

CAS NUMBER	ANALYTE	CONCENTRATION	FLAG
91-20-3	Naphthalene	1.02	U
83-32-9	Acenapthene	1.02	U
120-12-7	Anthracene	0.67	U
206-44-0	Fluoranthene	0.21	U
7782-41-4	Fluorene	0.21	U
129-00-0	Pyrene	0.28	U
56-55-3	Benzo(a)anthracene	0.13	U
50-32-8	Benzo(a)pyrene	0.1	U
205-99-2	Benzo(b)fluoranthene	0.18	U
207-08-9	Benzo(k)fluoranthene	0.17	U
218-01-9	Chrysene	0.15	U
53-70-3	Dibenzo(a,h)anthracene	0.31	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.44	U
208-96-8	Acenaphthylene	2.04	U
191-24-2	Benzo(g,h,i)perylene	0.78	U
85-01-8	Phenanthrene	0.65	U

SPECIALIZED ASSAYS, INC.
2960 Foster Creighton Dr.
P.O. Box 40566
Nashville, TN 37204-0566
Phone 1-615-726-0177

Sample Identification

AB89506

Matrix: Water
pH:
Units: ug/l
Dilution Factor: 1.
Analysis Method: SW8310
Delivery Group: 184949
Instrument:
Vol Extracted: 980. ml
Extract Vol: 1.00 ml

Lab Sample ID: 00-A38727
Date Sampled:: 3/20/00
Date Received: 3/23/00
Analysis Date: 3/26/00
Analysis Time: 22:03
Sample QC Group: 7429

Extraction Date: 3/24/00

FORM I -

CAS NUMBER	ANALYTE	CONCENTRATION	FLAG
91-20-3	Naphthalene	1.02	U
83-32-9	Acenapthene	1.02	U
120-12-7	Anthracene	0.67	U
206-44-0	Fluoranthene	0.21	U
7782-41-4	Fluorene	0.21	U
129-00-0	Pyrene	0.28	U
56-55-3	Benzo(a)anthracene	0.13	U
50-32-8	Benzo(a)pyrene	0.1	U
205-99-2	Benzo(b)fluoranthene	0.18	U
207-08-9	Benzo(k)fluoranthene	0.17	U
218-01-9	Chrysene	0.15	U
53-70-3	Dibenzo(a,h)anthracene	0.31	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.44	U
208-96-8	Acenaphthylene	2.04	U
191-24-2	Benzo(g,h,i)perylene	0.78	U
85-01-8	Phenanthrene	0.65	U

SPECIALIZED ASSAYS, INC.
2960 Foster Creighton Dr.
P.O. Box 40566
Nashville, TN 37204-0566
Phone 1-615-726-0177

Sample Identification

AB89507

Matrix: Water
pH.
Units: ug/l
Dilution Factor: 5
Analysis Method: SW8310
Delivery Group. 184947
Instrument:
Vol Extracted 980 ml
Extract Vol 1.00 ml

Lab Sample ID: 00-A38728
Date Sampled:: 3/20/00
Date Received: 3/23/00
Analysis Date: 3/26/00
Analysis Time: 22:03
Sample QC Group: 7429

Extraction Date: 3/24/00

FORM I

CAS NUMBER	ANALYTE	CONCENTRATION	FLAG
91-20-3	Naphthalene	20.6	
83-32-9	Acenapthene	1.02	U
120-12-7	Anthracene	0.67	U
206-44-0	Fluoranthene	0.21	U
7782-41-4	Fluorene	0.21	U
129-00-0	Pyrene	0.28	U
56-55-3	Benzo(a)anthracene	0.13	U
50-32-8	Benzo(a)pyrene	0.1	U
205-99-2	Benzo(b)fluoranthene	0.18	U
207-08-9	Benzo(k)fluoranthene	0.17	U
218-01-9	Chrysene	0.15	U
53-70-3	Dibenzo(a,h)anthracene	0.31	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.44	U
208-96-8	Acenaphthylene	2.04	U
191-24-2	Benzo(g,h,i)perylene	0.78	U
85-01-8	Phenanthrene	0.65	U

SPECIALIZED ASSAYS, INC.
2960 Foster Creighton Dr.
P.O. Box 40566
Nashville, TN 37204-0566
Phone 1-615-726-0177

Sample Identification

AB89508

Matrix: Water
pH:
Units: ug/l
Dilution Factor: 1.
Analysis Method: SW8310
Delivery Group: 184949
Instrument:
Vol Extracted: 980 ml
Extract Vol: 1.00 ml

Lab Sample ID: 00-A38729
Date Sampled:: 3/20/00
Date Received: 3/23/00
Analysis Date: 3/26/00
Analysis Time: 22:03
Sample QC Group: 7429

Extraction Date: 3/24/00

FORM I

CAS NUMBER	ANALYTE	CONCENTRATION	FLAG
91-20-3	Naphthalene	1.02	U
83-32-9	Acenapthene	1.02	U
120-12-7	Anthracene	0.67	U
206-44-0	Fluoranthene	0.21	U
7782-41-4	Fluorene	0.21	U
129-00-0	Pyrene	0.28	U
56-55-3	Benzo(a)anthracene	0.13	U
50-32-8	Benzo(a)pyrene	0.1	U
205-99-2	Benzo(b)fluoranthene	0.18	U
207-08-9	Benzo(k)fluoranthene	0.17	U
218-01-9	Chrysene	0.15	U
53-70-3	Dibenzo(a,h)anthracene	0.31	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.44	U
208-96-8	Acenaphthylene	2.04	U
191-24-2	Benzo(g,h,i)perylene	0.78	U
85-01-8	Phenanthrene	0.65	U

SPECIALIZED ASSAYS, INC.
2960 Foster Creighton Dr.
P.O. Box 40566
Nashville, TN 37204-0566
Phone 1-615-726-0177

Sample Identification

AB89509

Matrix: Water
pH:
Units: ug/l
Dilution Factor: 1.
Analysis Method: SW8310
Delivery Group: 184949
Instrument:
Vol Extracted: 980. ml
Extract Vol: 1.00 ml

Lab Sample ID: 00-A38730
Date Sampled:: 3/20/00
Date Received: 3/23/00
Analysis Date: 3/26/00
Analysis Time: 22:03
Sample QC Group: 7429

Extraction Date: 3/24/00

FORM I

CAS NUMBER	ANALYTE	CONCENTRATION	FLAG
91-20-3	Naphthalene	1.02	U
83-32-9	Acenapthene	1.02	U
120-12-7	Anthracene	0.67	U
206-44-0	Fluoranthene	0.21	U
7782-41-4	Fluorene	0.21	U
129-00-0	Pyrene	0.28	U
56-55-3	Benzo(a)anthracene	0.13	U
50-32-8	Benzo(a)pyrene	0.1	U
205-99-2	Benzo(b)fluoranthene	0.18	U
207-08-9	Benzo(k)fluoranthene	0.17	U
218-01-9	Chrysene	0.15	U
53-70-3	Dibenzo(a,h)anthracene	0.31	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.44	U
208-96-8	Acenaphthylene	2.04	U
191-24-2	Benzo(g,h,i)perylene	0.78	U
85-01-8	Phenanthrene	0.65	U

SPECIALIZED ASSAYS, INC.
2960 Foster Creighton Dr.
P.O. Box 40566
Nashville, TN 37204-0566
Phone 1-615-726-0177

Sample Identification

AB89510

Matrix: Water
pH:
Units: ug/l
Dilution Factor: 1.
Analysis Method: SW8310
Delivery Group: 184949
Instrument:
Vol Extracted 980. ml
Extract Vol: 1.00 ml

Lab Sample ID: 00-A38731
Date Sampled:: 3/20/00
Date Received: 3/23/00
Analysis Date: 3/26/00
Analysis Time: 22:03
Sample QC Group: 7429

Extraction Date: 3/24/00

FORM I-

CAS NUMBER	ANALYTE	CONCENTRATION	FLAG
91-20-3	Naphthalene	1.02	U
83-32-9	Acenapthene	1.02	U
120-12-7	Anthracene	0.67	U
206-44-0	Fluoranthene	0.21	U
7782-41-4	Fluorene	0.21	U
129-00-0	Pyrene	0.28	U
56-55-3	Benzo(a)anthracene	0.13	U
50-32-8	Benzo(a)pyrene	0.1	U
205-99-2	Benzo(b)fluoranthene	0.18	U
207-08-9	Benzo(k)fluoranthene	0.17	U
218-01-9	Chrysene	0.15	U
53-70-3	Dibenzo(a,h)anthracene	0.31	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.44	U
208-96-8	Acenaphthylene	2.04	U
191-24-2	Benzo(g,h,i)perylene	0.78	U
85-01-8	Phenanthrene	0.65	U

SPECIALIZED ASSAYS, INC.
2960 Foster Creighton Dr.
P.O. Box 40566
Nashville, TN 37204-0566
Phone 1-615-726-0177

Sample Identification

AB89511

Matrix: Water
pH:
Units. ug/l
Dilution Factor 1.
Analysis Method SW8310
Delivery Group 184949
Instrument
Vol Extracted: 970. ml
Extract Vol 1 00 ml

Lab Sample ID: 00-A38732
Date Sampled:: 3/20/00
Date Received: 3/23/00
Analysis Date: 3/26/00
Analysis Time: 22:03
Sample QC Group: 7429

Extraction Date. 3/24/00

FORM I

CAS NUMBER	ANALYTE	CONCENTRATION	FLAG
91-20-3	Naphthalene	1.03	U
83-32-9	Acenapthene	1.03	U
120-12-7	Anthracene	0.68	U
206-44-0	Fluoranthene	0.22	U
7782-41-4	Fluorene	0.22	U
129-00-0	Pyrene	0.28	U
56-55-3	Benzo(a)anthracene	0.13	U
50-32-8	Benzo(a)pyrene	0.1	U
205-99-2	Benzo(b)fluoranthene	0.19	U
207-08-9	Benzo(k)fluoranthene	0.18	U
218-01-9	Chrysene	0.15	U
53-70-3	Dibenzo(a,h)anthracene	0.31	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.44	U
208-96-8	Acenaphthylene	2.06	U
191-24-2	Benzo(g,h,i)perylene	0.78	U
85-01-8	Phenanthrene	0.66	U

2A

8310 PAH SURROGATE RECOVERY SUMMARY

Lab Name: Specialized Assays Contract: _____

SDG # 184949 Location: _____

Site: _____ Group: _____

	SAMPLE NO.		% Recovery	#	TOT OUT
01	WBLKO1		102		0
02	AB89497		64		0
03	AB89498		50		0
04	AB89499		46		0
05	AB89500		38		0
06	AB89501		46		0
07	AB89502		66		0
08	AB89503		36		0
09	AB89504		38		0
10	AB89505		60		0
11	AB89506		42		0
12	AB89507		30		0
13	AB89508		42		0
14	AB89509		38		0
15	AB89510		76		0
16	AB89511		54		0
17	BLANK MS		116		0
18	BLANK MSD		114		0
19	CONTROL W		112		0
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					

4-19-00 kr

QC LIMITS: 22-141

(+): Surrogate not determined due to interference.

Surrogate used: p-Terphenyl-d14

* Values outside of contract required QC limits

D System Monitoring Compound diluted out

8310 PAH MATRIX SPIKE/SPIKE DUPLICATE SUMMARY

Lab Name : Specialized Assays Contract : _____

SDG # 184949 Location : _____

Matrix Spike No.: BLANK MS Site _____

Group _____

COMPOUND	Spike Added (ug/L)	Sample Concentration (ug/L)	MS Concentration (ug/L)	MS % REC
Napthalene	1.0	0	0.73	73.0
1-Methyl-naphthalene	1.0	0		
2-Methyl-naphthalene	1.0	0		
Acenapthylene	1.0	0	0.88	88.0
Acenapthene	1.0	0	0.67	67.0
Flourene	1.0	0	0.76	76.0
Phenanthrene	1.0	0	0.83	83.0
Anthracene	1.0	0	0.77	77.0
Flouranthene	1.0	0	0.95	95.0
Pyrene	1.0	0	0.95	95.0
Benzo(a)anthracene	1.0	0	0.94	94.0
Chrysene	1.0	0	0.85	85.0
Benzo(b)flouranthene	1.0	0	0.91	91.0
Benzo(k)flouranthene	1.0	0	0.9	90.0
Benzo(a)pyrene	1.0	0	0.88	88.0
Dibenz(ah)anthracene	1.0	0	0.57	57.0
Benzo(ghi)Perylene	1.0	0	0.8	80.0
Indeno(123cd)pyrene	1.0	0	0.93	93.0

NR 4-19-00 KC

COMPOUND	Spike Added (ug/L)	MSD Conc. (ug/L)	MSD % REC.	% RPD	QC Limits RPD	QC Limits %REC
Napthalene	1.0	0.65	65.0	11.59	15	21-122
1-Methyl-naphthalene	1.0					
2-Methyl-naphthalene	1.0					
Acenapthylene	1.0	0.74	74 0	17 28	30	47-125
Acenapthene	1.0	0.56	56 0	17.89	27	42-118
Flourene	1.0	0.69	69.0	9.66	24	57-114
Phenanthrene	1.0	0.72	72.0	14.19	19	51-125
Anthracene	1.0	0.66	66.0	15.38	19	25-112
Flouranthene	1.0	0.9	90.0	5.41	19	63-126
Pyrene	1.0	0.89	89.0	6.52	20	60-127
Benzo(a)anthracene	1.0	0.86	86.0	8.89	16	62-112
Chrysene	1.0	0.77	77 0	9.88	17	56-125
Benzo(b)flouranthene	1.0	0 81	81 0	11.63	16	58-128
Benzo(k)flouranthene	1.0	0.78	78 0	14.29	20	57-128
Benzo(a)pyrene	1.0	0 76	76 0	14 63	17	51-119
Dibenz(ah)anthracene	1.0	0 46	46 0	21.36	25	57-133
Benzo(ghi)Perylene	1.0	0.61	61 0	26.95	28	60-128
Indeno(123cd)pyrene	1.0	0.76	76.0	20.12	22	59-127

NR 4-19-00 KC

4C

8310 PAH,S METHOD BLANK SUMMARY

SAMPLE NO.

XBLK01

Lab Name: Specialized Assays

Lab Sample ID: 7358 WBB

SDG # 184949

Lab File ID: 0326lc3.013

Group:

Date Analyzed: 3/26

Contract:

Time Analyzed: 20:18

Instrument ID: HPLC 3

HPLC Column: VYDAC C-18

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

	CLIENT ID	LAB ID	LAB FILE ID	DATE	TIME ANALYZED
01	AB89497	38718	0326lc3.017	3/26/00	22:03
02	AB89498	38719	0326lc3.018	3/26/00	22:29
03	AB89499	38720	0326lc3 019	3/26/00	22:55
04	AB89500	38721	0326lc3 020	3/26/00	23:21
05	AB89500	38721X5	0326lc3 036	3/27/00	11:01
06	AB89501	38722	0326lc3.021	3/26/00	23:48
07	AB89502	38723	0326lc3 022	3/27/00	0:14
08	AB89503	38724	0326lc3.024	3/27/00	1:06
09	AB89504	38725	0326lc3 025	3/27/00	1:33
10	AB89505	38726	0326lc3.026	3/27/00	1:59
11	AB89506	38727	0326lc3.027	3/27/00	2:25
12	AB89507	38728	0326lc3.028	3/27/00	2:51
13	AB89507	38728X5	0326lc3.037	3/27/00	11:27
14	AB89508	38729	0326lc3.029	3/27/00	3:18
15	AB89509	38730	0326lc3.030	3/27/00	3:44
16	AB89510	38731	0326lc3.031	3/27/00	4:10
17	AB89511	38732	0326lc3 032	3/27/00	4:36
18	BLANK MS	7359 WSB	0326lc3 014	3/26/00	20:44
19	BLANK MSD	7360 WSB	0326lc3 015	3/26/00	21:10
20	CONTROL W	7444 LCS	0326lc3 016	3/26/00	21:37
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					

COMMENTS:

8310 PAH LABORATORY CONTROL SPIKE SUMMARY

Lab Name : Specialized Assays

Contract :

SDG # 184949

Location :

Lab Control Spike No.: CONTROL W

Site :

Group :

COMPOUND	Spike Added (ug/L)		Sample Concentration (ug/L)		LCS Concentration (ug/L)	LCS %REC.	QC Limits
Napthalene	1.0		0		0.61	61.00	20-151
1-Methyl-naphthalene	1.0		0				
2-Methyl-naphthalene	1.0		0				
Acenapthylene	1.0		0		0.70	70.00	20-140
Acenapthene	1.0		0		0.56	56.00	18-134
Flourene	1.0		0		0.69	69.00	33-105
Phenanthrene	1.0		0		0.72	72.00	37-105
Anthracene	1.0		0		0.65	65.00	40-143
Flouranthene	1.0		0		0.87	87.00	33-129
Pyrene	1.0		0		0.86	86.00	47-113
Benzo(a)anthracene	1.0		0		0.86	86.00	47-113
Chrysene	1.0		0		0.78	78.00	45-115
Benzo(b)flouranthene	1.0		0		0.83	83.00	47-113
Benzo(k)flouranthene	1.0		0		0.80	80.00	48-118
Benzo(a)pyrene	1.0		0		0.78	78.00	34-119
Dibenz(ah)anthracene	1.0		0		0.44	44.00	42-113
Benzo(ghi)Perylene	1.0		0		0.62	62.00	42-130
Indeno(123cd)pyrene	1.0		0		0.79	79.00	38-114

NR
4-19-00
JAR

POLYAROMATIC HYDROCARBONS (PAH's)
SW846 8310

RAW DATA

SPECIALIZED ASSAYS, INC
2960 FOSTER CREIGHTON DRIVE
NASHVILLE, TN 37204
1-800-765-0980

SPECIALIZED ASSAYS, INC.
2960 Foster Creighton Dr.
P.O. Box 40566
Nashville, TN 37204-0566
Phone 1-615-726-0177

Sample Identification

AB89497

Matrix: Water
pH:
Units: ug/l
Dilution Factor: 1.
Analysis Method: SW8310
Delivery Group: 184949
Instrument:
Vol Extracted: 970. ml
Extract Vol: 1.00 ml

Lab Sample ID: 00-A38718
Date Sampled:: 3/20/00
Date Received: 3/23/00
Analysis Date: 3/26/00
Analysis Time: 22:03
Sample QC Group: 7429

Extraction Date: 3/24/00

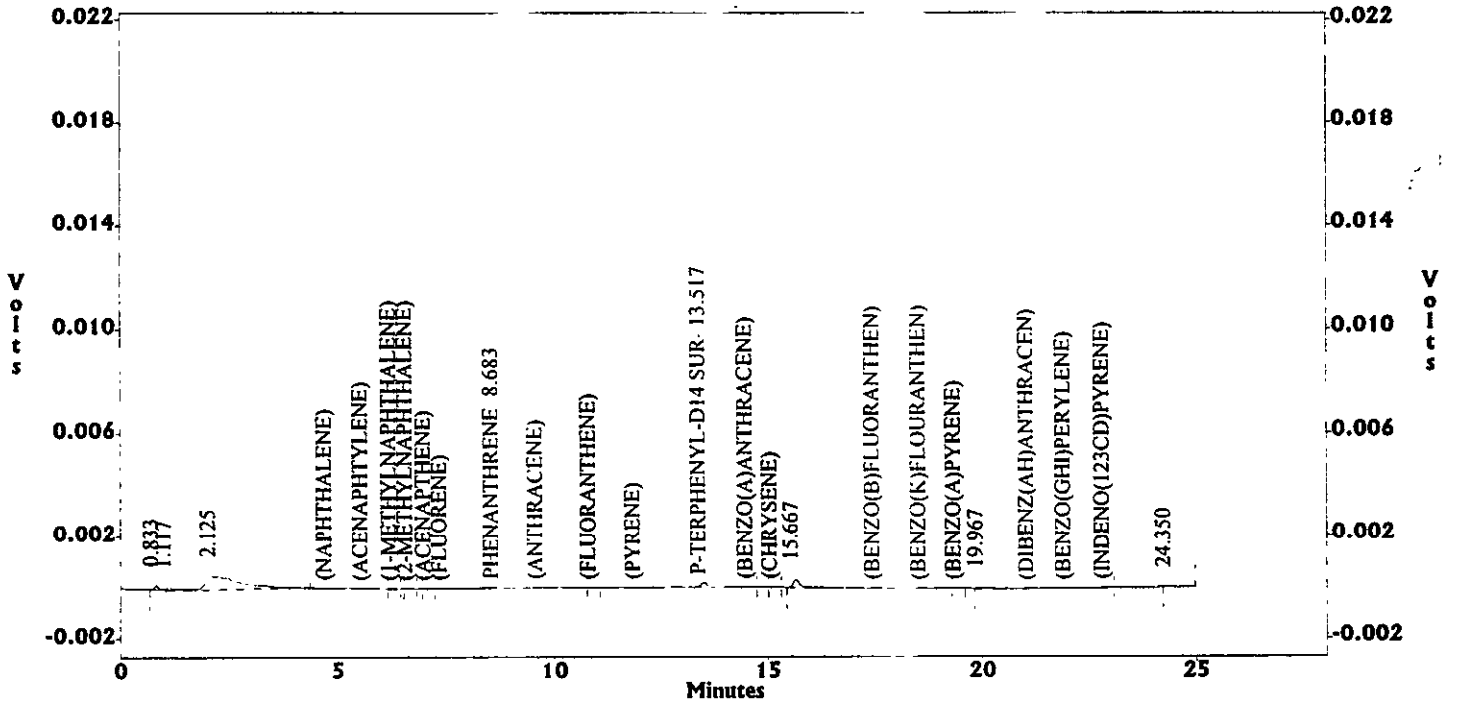
FORM I

CAS NUMBER	ANALYTE	CONCENTRATION	FLAG
91-20-3	Naphthalene	1.03	U
83-32-9	Acenapthene	1.03	U
120-12-7	Anthracene	0.68	U
206-44-0	Fluoranthene	0.22	U
7782-41-4	Fluorene	0.22	U
129-00-0	Pyrene	0.28	U
56-55-3	Benzo(a)anthracene	0.13	U
50-32-8	Benzo(a)pyrene	0.1	U
205-99-2	Benzo(b)fluoranthene	0.19	U
207-08-9	Benzo(k)fluoranthene	0.18	U
218-01-9	Chrysene	0.15	U
53-70-3	Dibenzo(a,h)anthracene	0.31	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.44	U
208-96-8	Acenaphthylene	2.06	U
191-24-2	Benzo(g,h,i)perylene	0.78	U
85-01-8	Phenanthrene	0.66	U

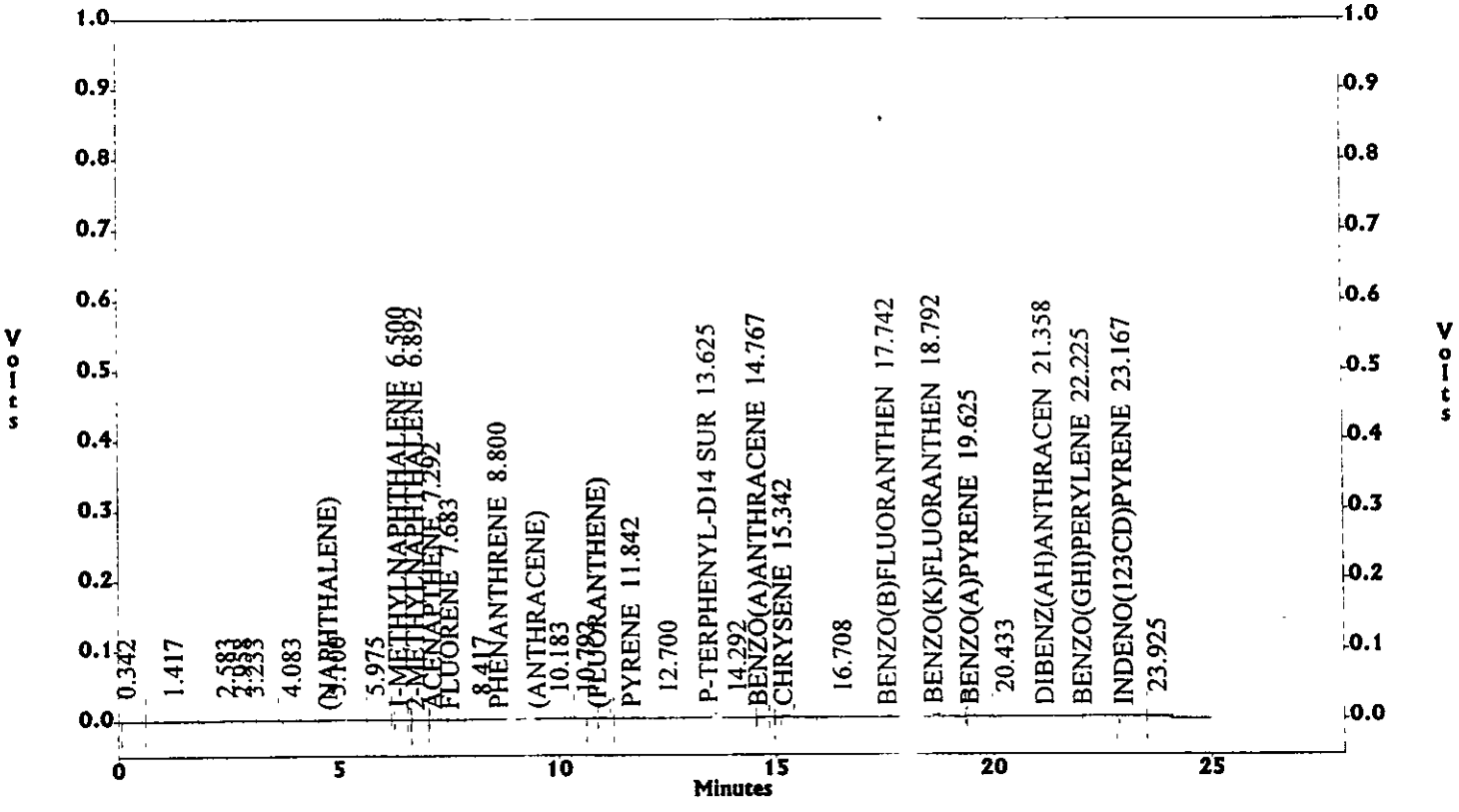
HPLC 1

File : c:\ezchromb\chrom\0326lc3.017
Method : c:\ezchromb\methods\lc1\8310a.met
Sample ID : 38718
Acquired : Mar 26, 2000 22:03:18
Printed : Mar 27, 2000 09:51:39
User : System

c:\ezchromb\chrom\0326lc3.017 -- Channel A



c:\ezchromb\chrom\0326lc3.017 -- Channel B



HPLC 1

File : c:\ezchromb\chrom\0326lc3.017
Method : c:\ezchromb\methods\lc1\8310a.met
Sample ID : 38718
Acquired : Mar 26, 2000 22:03:18
Printed : Mar 27, 2000 09:51:40
User : System

Channel A Results

Peak Name	Time	Area	Conc.
NAPHTHALENE	4.81	0	0.00
ACENAPHTYLENE	5.63	0	0.00
1-METHYLNAPHT	6.30	0	0.00
2-METHYLNAPHT	6.68	0	0.00
ACENAPTHENE	7.10	0	0.00
FLUORENE	7.47	0	0.00
PHENANTHRENE	8.68	348	0.00
ANTHRACENE	9.69	0	0.00
FLUORANTHENE	10.93	0	0.00
PYRENE	11.98	0	0.00
P-TERPHENYL-D	13.52	1508	0.30
BENZO(A)ANTHR	14.61	0	0.00
CHRYSENE	15.18	0	0.00
BENZO(B)FLUOR	17.58	0	0.00
BENZO(K)FLOUR	18.65	0	0.00
BENZO(A)PYREN	19.45	0	0.00
DIBENZ(AH)ANT	21.17	0	0.00
BENZO(GHI)PER	22.03	0	0.00
INDENO(123CD)	22.94	0	0.00

Channel B Results

Name	Time	Area	Conc.
NAPHTHALENE	4.92	0	0.00
1-METHYLNAPHT	6.50	6340	0.00
2-METHYLNAPHT	6.89	5531	0.00
ACENAPTHENE	7.29	4284	0.00
FLUORENE	7.68	3524	0.00
PHENANTHRENE	8.80	6415	0.00
ANTHRACENE	9.66	0	0.00
FLUORANTHENE	11.05	0	0.00
PYRENE	11.84	18067	0.01
P-TERPHENYL-D	13.63	73053	0.32
BENZO(A)ANTHR	14.77	4780	0.00
CHRYSENE	15.34	20697	0.00
BENZO(B)FLUOR	17.74	8235	0.00
BENZO(K)FLUOR	18.79	35906	0.00
BENZO(A)PYREN	19.63	17913	0.00
DIBENZ(AH)ANT	21.36	5256	0.00
BENZO(GHI)PER	22.23	4226	0.00
INDENO(123CD)	23.17	3193	0.00

SPECIALIZED ASSAYS, INC.
2960 Foster Creighton Dr.
P.O. Box 40566
Nashville, TN 37204-0566
Phone 1-615-726-0177

Sample Identification

AB89498

Matrix: Water
pH:
Units: ug/l
Dilution Factor: 1.
Analysis Method: SW8310
Delivery Group: 184949
Instrument:
Vol Extracted: 970. ml
Extract Vol: 1.00 ml

Lab Sample ID: 00-A38719
Date Sampled:: 3/20/00
Date Received: 3/23/00
Analysis Date: 3/26/00
Analysis Time: 22:03
Sample QC Group: 7429

Extraction Date: 3/24/00

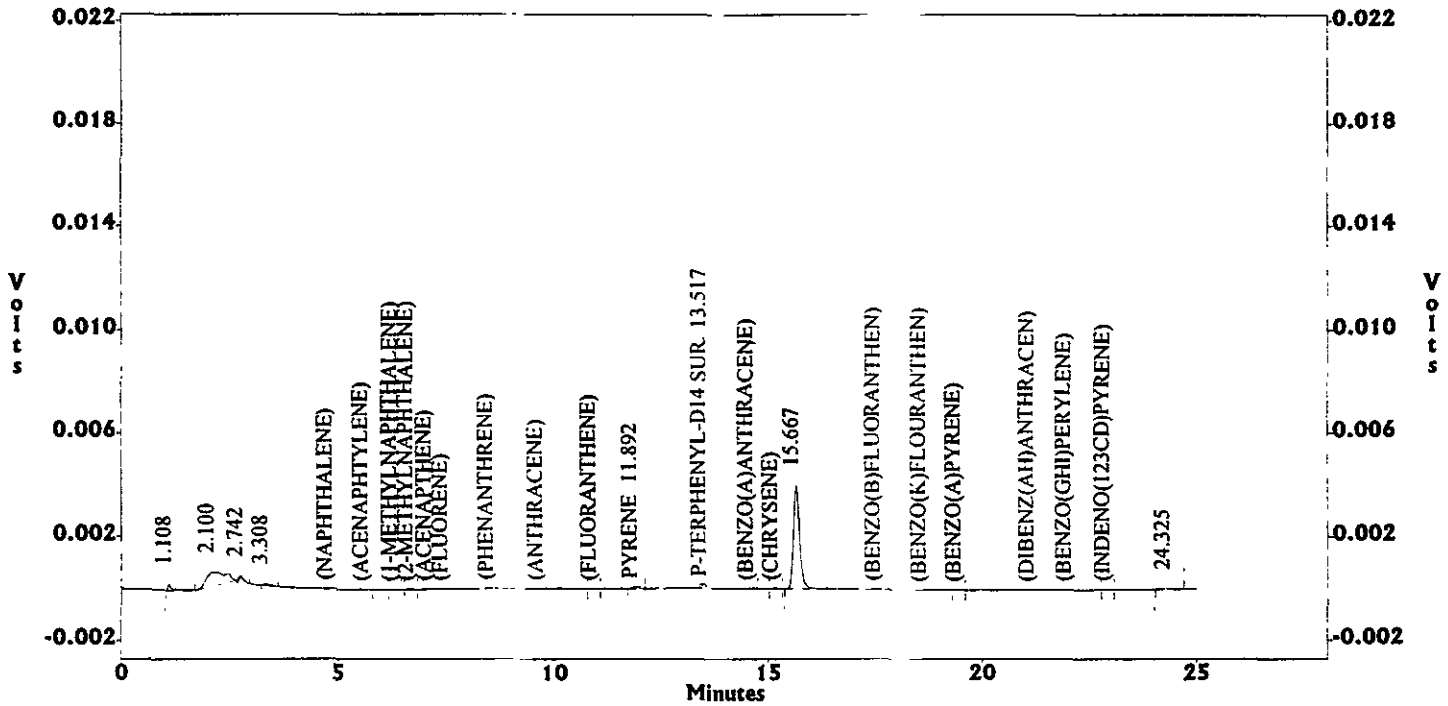
FORM I

CAS NUMBER	ANALYTE	CONCENTRATION	FLAG
91-20-3	Naphthalene	1.03	U
83-32-9	Acenapthene	1.03	U
120-12-7	Anthracene	0.68	U
206-44-0	Fluoranthene	0.22	U
7782-41-4	Fluorene	0.22	U
129-00-0	Pyrene	0.28	U
56-55-3	Benzo(a)anthracene	0.13	U
50-32-8	Benzo(a)pyrene	0.1	U
205-99-2	Benzo(b)fluoranthene	0.19	U
207-08-9	Benzo(k)fluoranthene	0.18	U
218-01-9	Chrysene	0.15	U
53-70-3	Dibenzo(a,h)anthracene	0.31	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.44	U
208-96-8	Acenaphthylene	2.06	U
191-24-2	Benzo(g,h,i)perylene	0.78	U
85-01-8	Phenanthrene	0.66	U

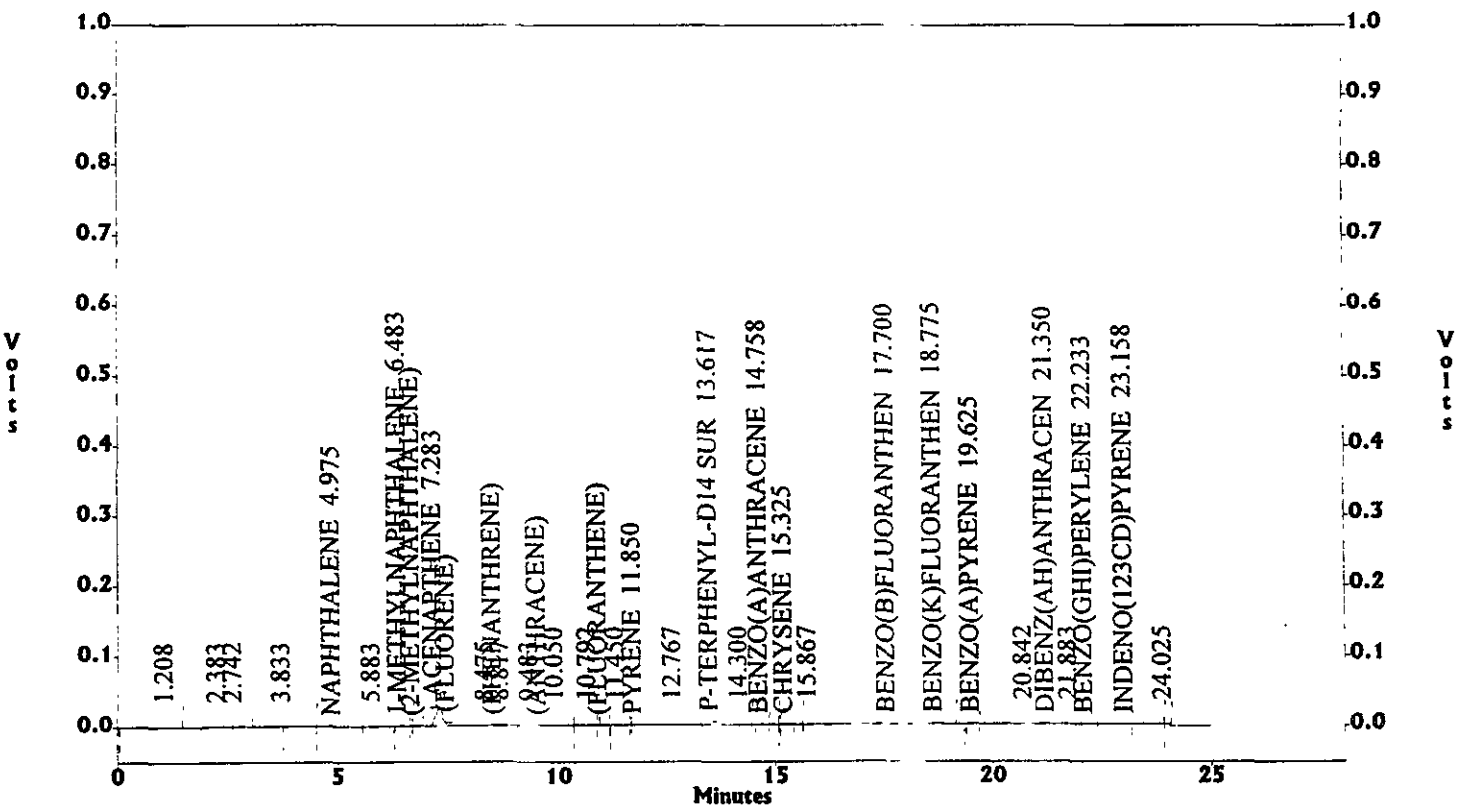
HPLC 1

File : c:\ezchromb\chrom\0326lc3.018
Method : c:\ezchromb\methods\lc1\8310a.met
Sample ID : 38719
Acquired : Mar 26, 2000 22:29:32
Printed : Mar 27, 2000 09:51:41
User : System

c:\ezchromb\chrom\0326lc3.018 -- Channel A



c:\ezchromb\chrom\0326lc3.018 -- Channel B



HPLC 1

File : c:\ezchromb\chrom\0326lc3.018
Method : c:\ezchromb\methods\lc1\8310a.met
Sample ID : 38719
Acquired : Mar 26, 2000 22:29:32
Printed : Mar 27, 2000 09:51:41
User : System

Channel A Results

Peak Name	Time	Area	Conc.
NAPHTHALENE	4.81	0	0.00
ACENAPHTYLENE	5.63	0	0.00
1-METHYLNAPHT	6.30	0	0.00
2-METHYLNAPHT	6.68	0	0.00
ACENAPTHENE	7.10	0	0.00
FLUORENE	7.47	0	0.00
PHENANTHRENE	8.54	0	0.00
ANTHRACENE	9.69	0	0.00
FLUORANTHENE	10.93	0	0.00
PYRENE	11.89	567	0.11
P-TERPHENYL-D	13.52	1204	0.24
BENZO(A)ANTHR	14.61	0	0.00
CHRYSENE	15.18	0	0.00
BENZO(B)FLUOR	17.58	0	0.00
BENZO(K)FLOUR	18.65	0	0.00
BENZO(A)PYREN	19.45	0	0.00
DIBENZ(AH)ANT	21.17	0	0.00
BENZO(GHI)PER	22.03	0	0.00
INDENO(123CD)	22.94	0	0.00

Channel B Results

Name	Time	Area	Conc.
NAPHTHALENE	4.97	14526	0.00
1-METHYLNAPHT	6.48	6914	0.00
2-METHYLNAPHT	6.78	0	0.00
ACENAPTHENE	7.28	296935	0.22
FLUORENE	7.57	0	0.00
PHENANTHRENE	8.65	0	0.00
ANTHRACENE	9.66	0	0.00
FLUORANTHENE	11.05	0	0.00
PYRENE	11.85	9476	0.00
P-TERPHENYL-D	13.62	58593	0.25
BENZO(A)ANTHR	14.76	9772	0.00
CHRYSENE	15.32	13125	0.00
BENZO(B)FLUOR	17.70	5454	0.00
BENZO(K)FLUOR	18.77	18218	0.00
BENZO(A)PYREN	19.63	8701	0.00
DIBENZ(AH)ANT	21.35	2722	0.00
BENZO(GHI)PER	22.23	2810	0.00
INDENO(123CD)	23.16	10118	0.03

SPECIALIZED ASSAYS, INC.
2960 Foster Creighton Dr.
P.O. Box 40566
Nashville, TN 37204-0566
Phone 1-615-726-0177

Sample Identification

AB89499

Matrix: Water
pH:
Units: ug/l
Dilution Factor: 1.
Analysis Method: SW8310
Delivery Group: 184949
Instrument:
Vol Extracted: 970. ml
Extract Vol: 1.00 ml

Lab Sample ID: 00-A38720
Date Sampled:: 3/20/00
Date Received: 3/23/00
Analysis Date: 3/26/00
Analysis Time: 22:03
Sample QC Group: 7429

Extraction Date: 3/24/00

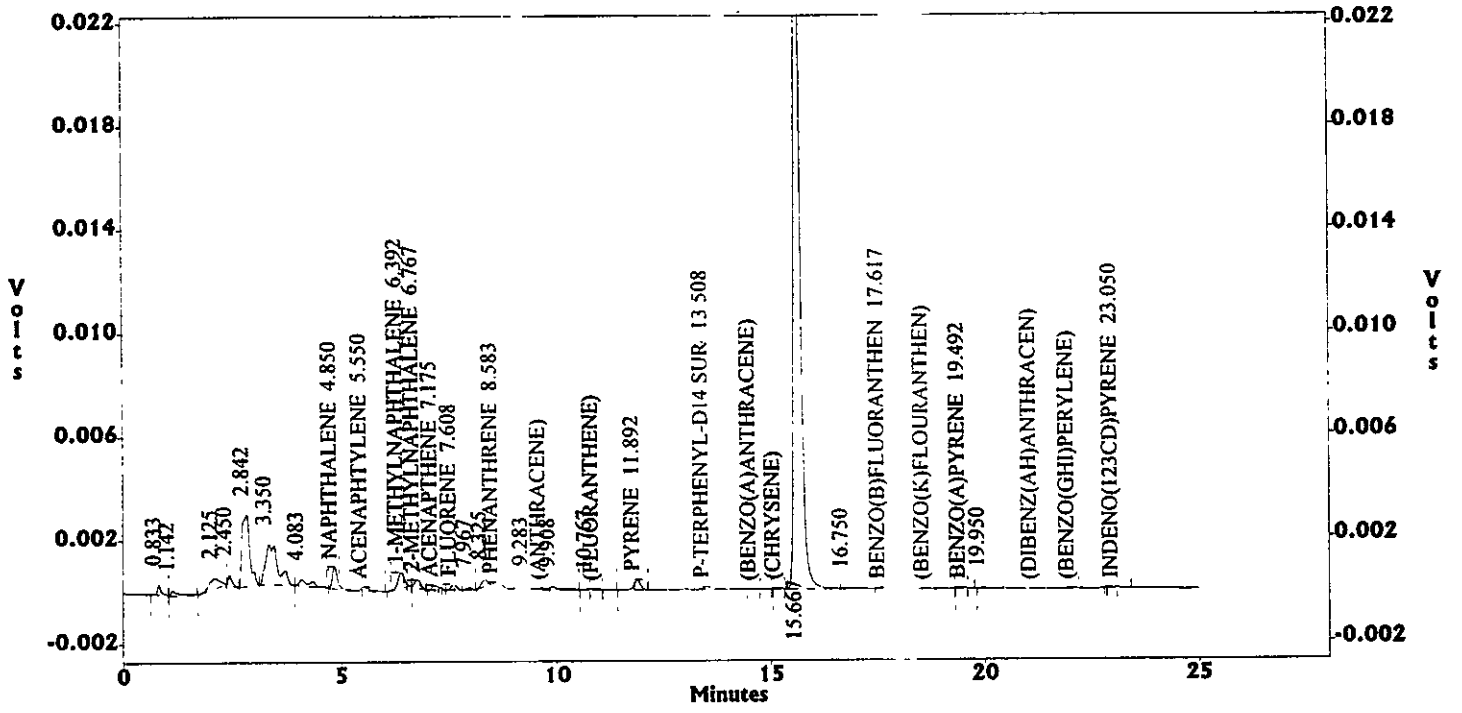
FORM I

CAS NUMBER	ANALYTE	CONCENTRATION	FLAG
91-20-3	Naphthalene	3.68	
83-32-9	Acenapthene	1.03	U
120-12-7	Anthracene	0.68	U
206-44-0	Fluoranthene	0.22	U
7782-41-4	Fluorene	0.22	U
129-00-0	Pyrene	0.28	U
56-55-3	Benzo(a)anthracene	0.13	U
50-32-8	Benzo(a)pyrene	0.1	U
205-99-2	Benzo(b)fluoranthene	0.19	U
207-08-9	Benzo(k)fluoranthene	0.18	U
218-01-9	Chrysene	0.15	U
53-70-3	Dibenzo(a,h)anthracene	0.31	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.44	U
208-96-8	Acenaphthylene	2.06	U
191-24-2	Benzo(g,h,i)perylene	0.78	U
85-01-8	Phenanthrene	0.66	U

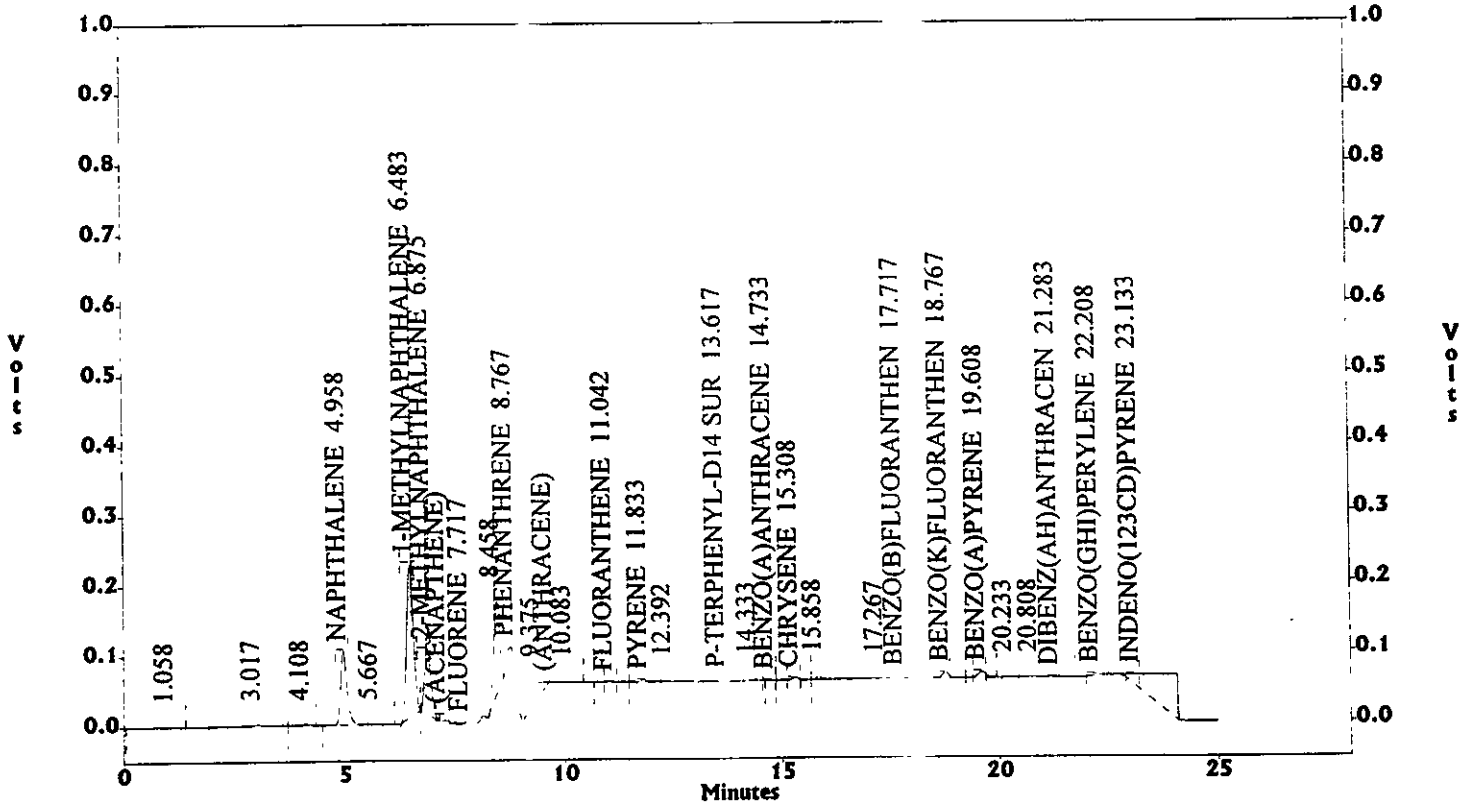
HPLC 1

File : c:\ezchromb\chrom\0326lc3.019
Method : c:\ezchromb\methods\lc1\8310a.met
Sample ID : 38720
Acquired : Mar 26, 2000 22:55:46
Printed : Mar 27, 2000 09:51:43
User : System

c:\ezchromb\chrom\0326lc3.019 -- Channel A



c:\ezchromb\chrom\0326lc3.019 -- Channel B



HPLC 1

File : c:\ezchromb\chrom\0326lc3.019
Method : c:\ezchromb\methods\lc1\8310a.met
Sample ID : 38720
Acquired : Mar 26, 2000 22:55:46
Printed : Mar 27, 2000 09:51:43
User : System

hannel A Results

Peak Name	Time	Area	Conc.
NAPHTHALENE	4.85	6949	3.57
ACENAPHTYLENE	5.55	2392	1.71
1-METHYLNAPHT	6.39	6266	6.34
2-METHYLNAPHT	6.77	2562	1.60
ACENAPTHENE	7.18	2272	3.67 NC
FLUORENE	7.61	2095	0.14
PHENANTHRENE	8.58	2011	0.00
ANTHRACENE	9.69	0	0.00
FLUORANTHENE	10.93	0	0.00
PYRENE	11.89	4126	0.84 RT-off
P-TERPHENYL-D	13.51	964	0.19
BENZO(A)ANTHR	14.61	0	0.00
CHRYSENE	15.18	0	0.00
BENZO(B)FLUOR	17.62	439	0.01
BENZO(K)FLOUR	18.65	0	0.00
BENZO(A)PYREN	19.49	481	0.01
DIBENZ(AH)ANT	21.17	0	0.00
BENZO(GHI)PER	22.03	0	0.00
INDENO(123CD)	23.05	497	0.02

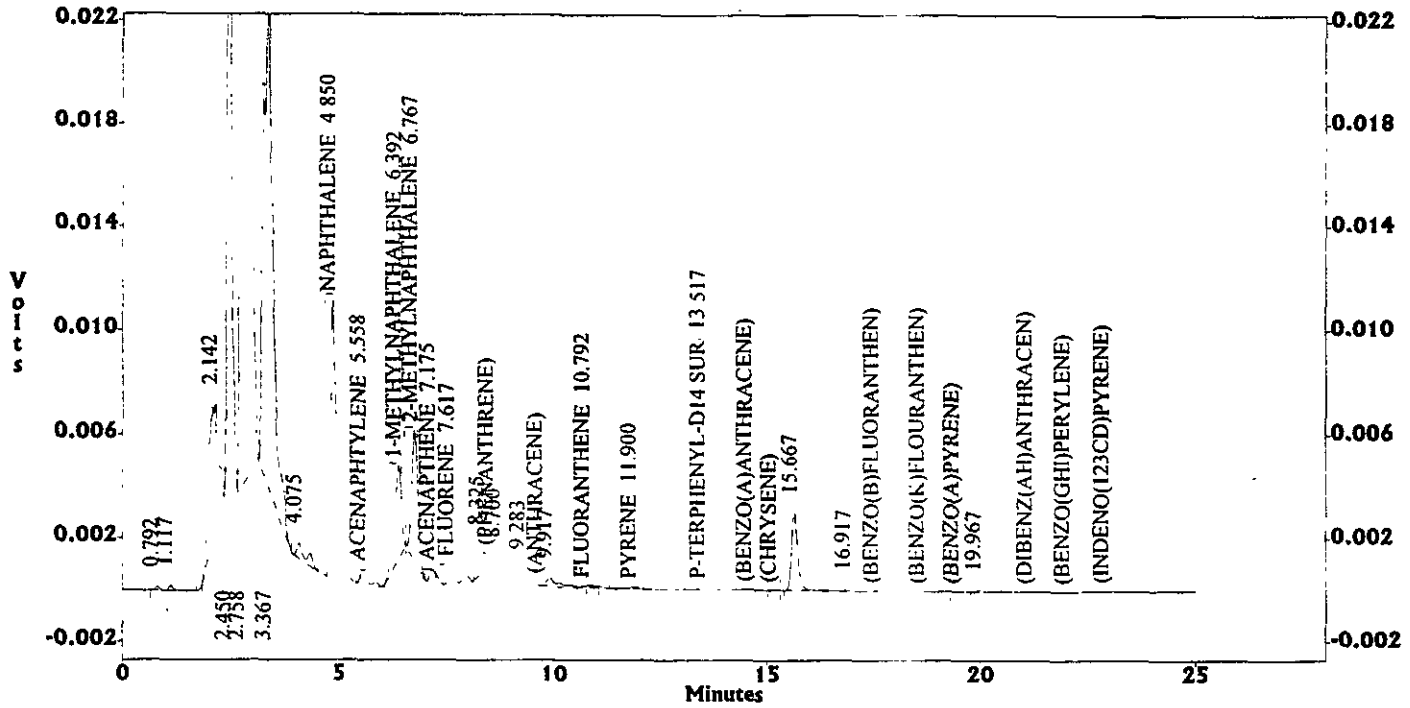
Channel B Results

Name	Time	Area	Conc.
NAPHTHALENE	4.96	1053476	3.38
1-METHYLNAPHT	6.48	2289313	5.10
2-METHYLNAPHT	6.88	966722	2.02
ACENAPTHENE	7.20	0	0.00
FLUORENE	7.72	30025	0.03
PHENANTHRENE	8.77	816737	3.33 split / NC
ANTHRACENE	9.66	0	0.00
FLUORANTHENE	11.04	9914	0.03
PYRENE	11.83	33140	0.03
P-TERPHENYL-D	13.62	53314	0.23
BENZO(A)ANTHR	14.73	6700	0.00
CHRYSENE	15.31	49831	0.00
BENZO(B)FLUOR	17.72	30070	0.01
BENZO(K)FLUOR	18.77	98831	0.00
BENZO(A)PYREN	19.61	98756	0.02
DIBENZ(AH)ANT	21.28	11766	0.00
BENZO(GHI)PER	22.21	33521	0.01
INDENO(123CD)	23.13	2494193	9.41 not real

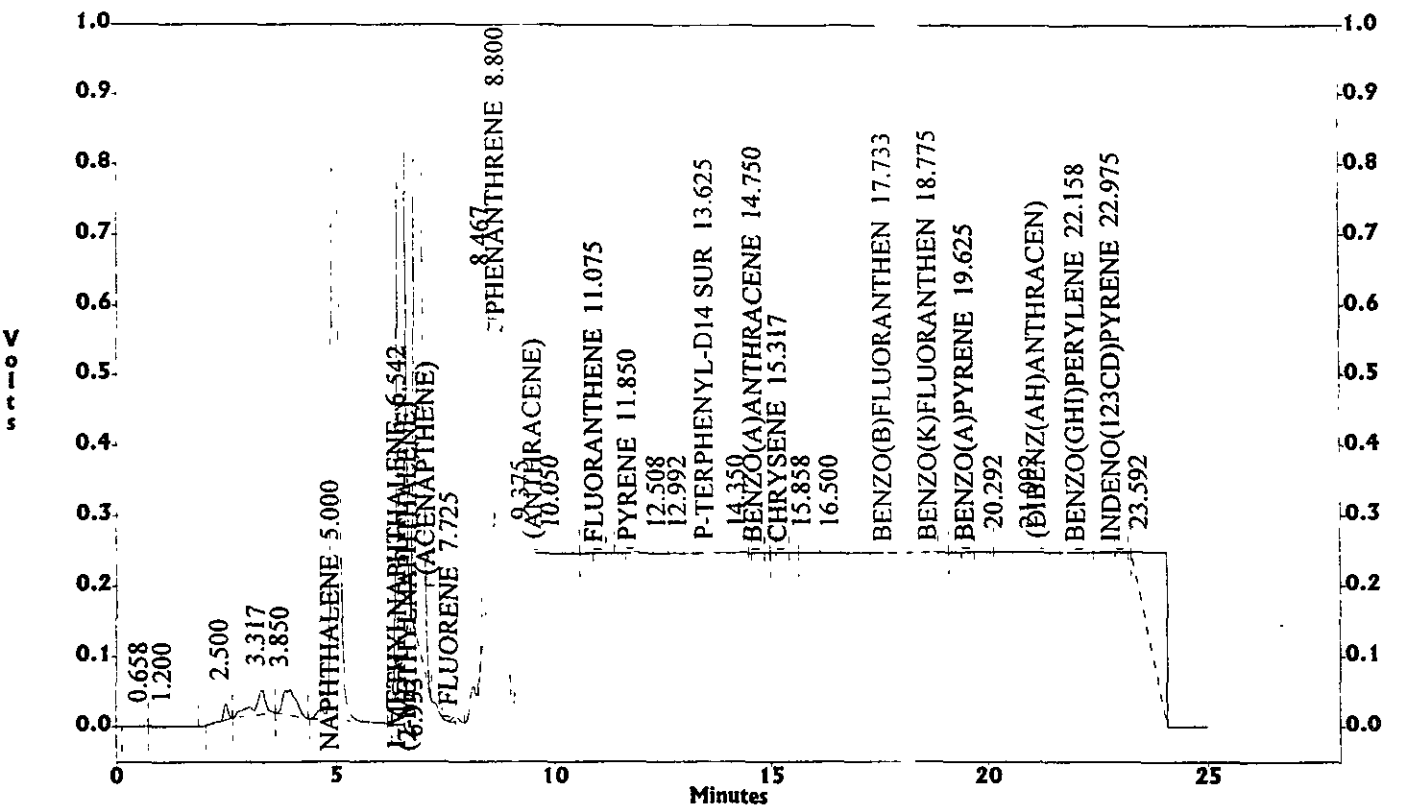
HPLC 1

File : c:\ezchromb\chrom\0326lc3.020
Method : c:\ezchromb\methods\lc1\8310a.met
Sample ID : 38721
Acquired : Mar 26, 2000 23:21:59
Printed : Mar 27, 2000 09:51:45
User : System

c:\ezchromb\chrom\0326lc3.020 -- Channel A



c:\ezchromb\chrom\0326lc3.020 -- Channel B



SPECIALIZED ASSAYS, INC.
2960 Foster Creighton Dr.
P.O. Box 40566
Nashville, TN 37204-0566
Phone 1-615-726-0177

Sample Identification

AB89500

Matrix: Water
pH:
Units: ug/l
Dilution Factor: 5.
Analysis Method: SW8310
Delivery Group: 184949
Instrument:
Vol Extracted: 970. ml
Extract Vol: 1.00 ml

Lab Sample ID: 00-A38721
Date Sampled:: 3/20/00
Date Received: 3/23/00
Analysis Date: 3/26/00
Analysis Time: 22:03
Sample QC Group: 7429

Extraction Date: 3/24/00

FORM I

CAS NUMBER	ANALYTE	CONCENTRATION	FLAG
91-20-3	Naphthalene	58.2	
83-32-9	Acenapthene	1.03	U
120-12-7	Anthracene	0.68	U
206-44-0	Fluoranthene	0.22	U
7782-41-4	Fluorene	0.22	U
129-00-0	Pyrene	0.28	U
56-55-3	Benzo(a)anthracene	0.13	U
50-32-8	Benzo(a)pyrene	0.1	U
205-99-2	Benzo(b)fluoranthene	0.19	U
207-08-9	Benzo(k)fluoranthene	0.18	U
218-01-9	Chrysene	0.15	U
53-70-3	Dibenzo(a,h)anthracene	0.31	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.44	U
208-96-8	Acenaphthylene	2.06	U
191-24-2	Benzo(g,h,i)perylene	0.78	U
85-01-8	Phenanthrene	0.66	U

HPLC 1

File : c:\ezchromb\chrom\0326lc3.020
Method : c:\ezchromb\methods\lc1\8310a.met
Sample ID : 38721
Acquired : Mar 26, 2000 23:21:59
Printed : Mar 27, 2000 09:51:45
User : System

Channel A Results

Peak Name	Time	Area	Conc.
NAPHTHALENE	4.85	95133	50.95
ACENAPHTYLENE	5.56	6330	4.71
1-METHYLNAPHT	6.39	35814	36.18
2-METHYLNAPHT	6.77	48125	32.21
ACENAPTHENE	7.18	5706	9.30
FLUORENE	7.62	6533	0.68
PHENANTHRENE	8.54	0	0.00
ANTHRACENE	9.69	0	0.00
FLUORANTHENE	10.79	2312	0.36 RT=AC
PYRENE	11.90	1240	0.25 RT=AC
P-TERPHENYL-D	13.52	935	0.19
BENZO(A)ANTHR	14.61	0	0.00
CHRYSENE	15.18	0	0.00
BENZO(B)FLUOR	17.58	0	0.00
BENZO(K)FLOUR	18.65	0	0.00
BENZO(A)PYREN	19.45	0	0.00
DIBENZ(AH)ANT	21.17	0	0.00
BENZO(GHI)PER	22.03	0	0.00
INDENO(123CD)	22.94	0	0.00

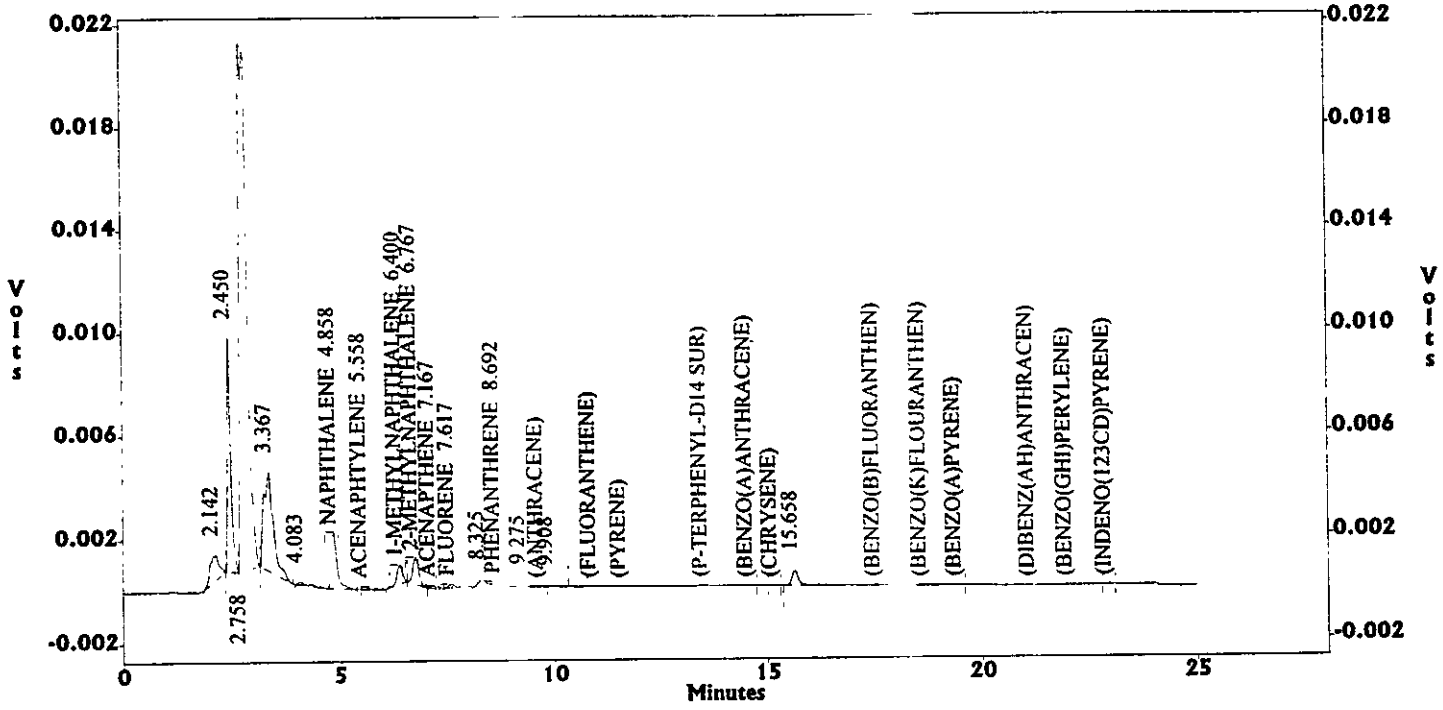
Channel B Results

Name	Time	Area	Conc.
NAPHTHALENE	5.00	12658962	41.63
1-METHYLNAPHT	6.54	12096950	27.02
2-METHYLNAPHT	6.78	0	0.00
ACENAPTHENE	7.20	0	0.00
FLUORENE	7.72	85526	0.19
PHENANTHRENE	8.80	4673767	19.47
ANTHRACENE	9.66	0	0.00
FLUORANTHENE	11.07	21780	0.09
PYRENE	11.85	30260	0.03
P-TERPHENYL-D	13.63	38298	0.16
BENZO(A)ANTHR	14.75	4163	0.00
CHRYSENE	15.32	13617	0.00
BENZO(B)FLUOR	17.73	7272	0.00
BENZO(K)FLUOR	18.77	14079	0.00
BENZO(A)PYREN	19.63	38365	0.00
DIBENZ(AH)ANT	21.27	0	0.00
BENZO(GHI)PER	22.16	5409	0.00
INDENO(123CD)	22.98	3662	0.00

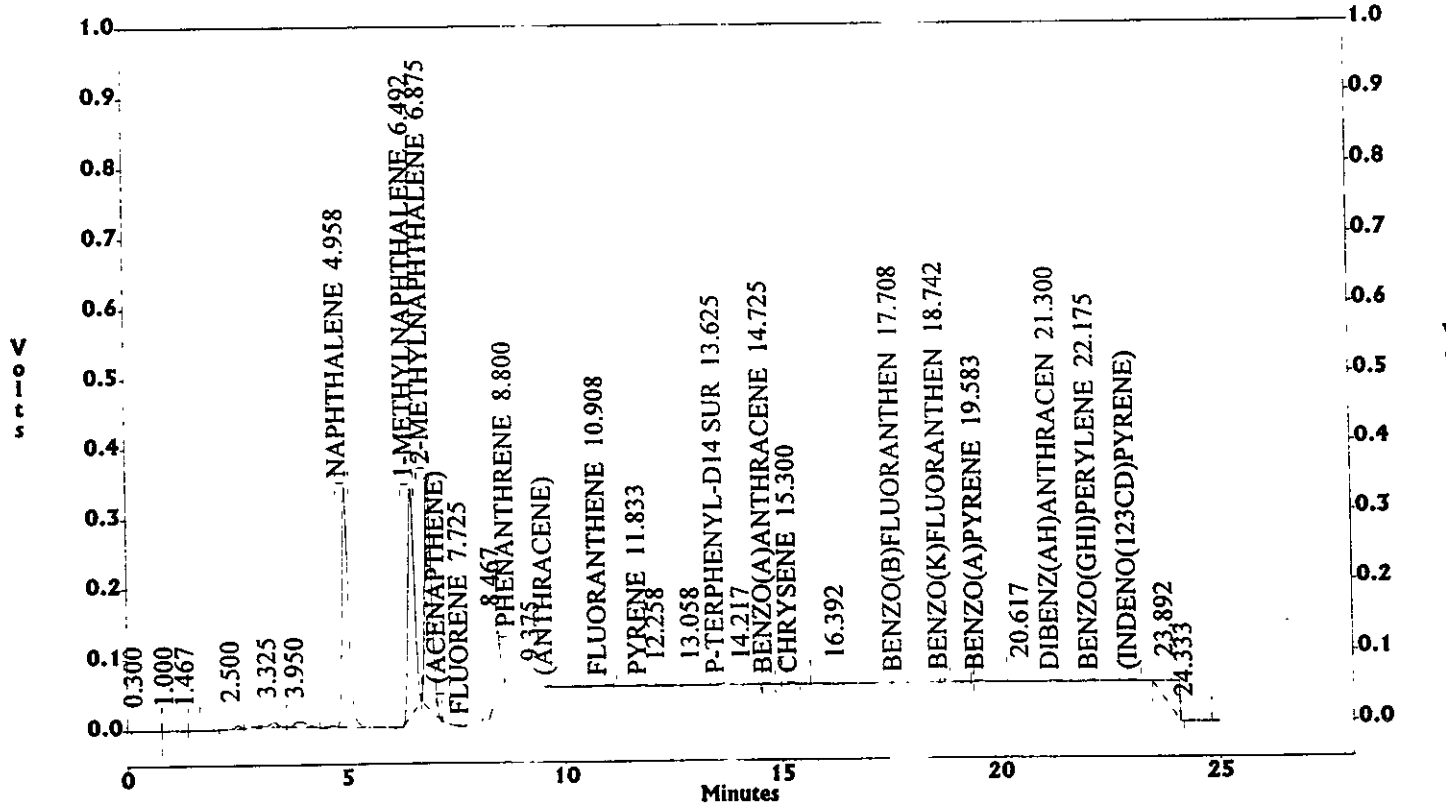
HPLC 1

File : c:\ezchromb\chrom\0326lc3.036
Method : c:\ezchromb\methods\lc1\8310a.met
Sample ID : 38721x5(100ul+400ul
Acquired : Mar 27, 2000 11:01:08
Printed : Mar 27, 2000 14:23:13
User : System

c:\ezchromb\chrom\0326lc3.036 -- Channel A



c:\ezchromb\chrom\0326lc3.036 -- Channel B



HPLC 1

File : c:\ezchromb\chrom\0326lc3.036
Method : c:\ezchromb\methods\lc1\8310a.met
Sample ID : 38721x5(100ul+400ul
Acquired : Mar 27, 2000 11:01:08
Printed : Mar 27, 2000 14:23:13
User : System

Channel A Results

Peak Name	Time	Area	Conc.
NAPHTHALENE	4.86	19141	10.12
ACENAPHTYLENE	5.56	1307	0.89
1-METHYLNAPHT	6.40	7054	7.14
2-METHYLNAPHT	6.77	9669	6.38
ACENAPTHENE	7.17	1152	1.83 NC
FLUORENE	7.62	1385	0.06
PHENANTHRENE	8.69	1589	0.00
ANTHRACENE	9.69	0	0.00
FLUORANTHENE	10.93	0	0.00
PYRENE	11.63	0	0.00
P-TERPHENYL-D	13.55	0	0.00
BENZO(A)ANTHR	14.61	0	0.00
CHRYSENE	15.18	0	0.00
BENZO(B)FLUOR	17.58	0	0.00
BENZO(K)FLOUR	18.65	0	0.00
BENZO(A)PYREN	19.45	0	0.00
DIBENZ(AH)ANT	21.17	0	0.00
BENZO(GHI)PER	22.03	0	0.00
INDENO(123CD)	22.94	0	0.00

Channel B Results

Name	Time	Area	Conc.
NAPHTHALENE	4.96	3443788	11.26
1-METHYLNAPHT	6.49	3309179	7.38
2-METHYLNAPHT	6.88	3494750	7.53
ACENAPTHENE	7.20	0	0.00
FLUORENE	7.72	19503	0.00
PHENANTHRENE	8.80	1023643	4.20 split (NC
ANTHRACENE	9.66	0	0.00
FLUORANTHENE	10.91	22363	0.10
PYRENE	11.83	14493	0.01
P-TERPHENYL-D	13.63	18221	0.07
BENZO(A)ANTHR	14.73	6399	0.00
CHRYSENE	15.30	18490	0.00
BENZO(B)FLUOR	17.71	5002	0.00
BENZO(K)FLUOR	18.74	30148	0.00
BENZO(A)PYREN	19.58	17320	0.00
DIBENZ(AH)ANT	21.30	8300	0.00
BENZO(GHI)PER	22.17	7480	0.00
INDENO(123CD)	23.06	0	0.00

SPECIALIZED ASSAYS, INC.
2960 Foster Creighton Dr.
P.O. Box 40566
Nashville, TN 37204-0566
Phone 1-615-726-0177

Sample Identification

AB89501

Matrix: Water
pH:
Units: ug/l
Dilution Factor: 1.
Analysis Method: SW8310
Delivery Group: 184949
Instrument:
Vol Extracted: 970. ml
Extract Vol: 1.00 ml

Lab Sample ID: 00-A38722
Date Sampled:: 3/20/00
Date Received: 3/23/00
Analysis Date: 3/26/00
Analysis Time: 22:03
Sample QC Group: 7429

Extraction Date: 3/24/00

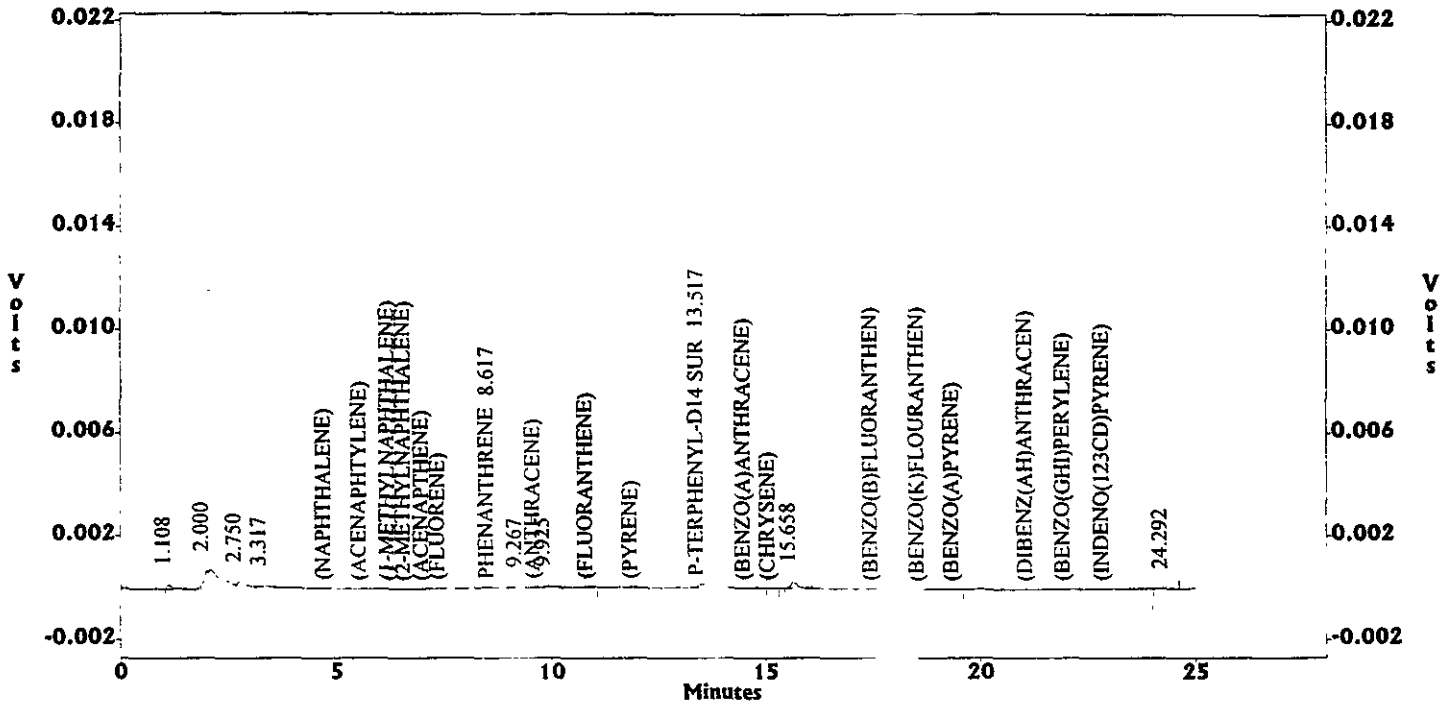
FORM I

CAS NUMBER	ANALYTE	CONCENTRATION	FLAG
91-20-3	Naphthalene	1.03	U
83-32-9	Acenapthene	1.03	U
120-12-7	Anthracene	0.68	U
206-44-0	Fluoranthene	0.22	U
7782-41-4	Fluorene	0.22	U
129-00-0	Pyrene	0.28	U
56-55-3	Benzo(a)anthracene	0.13	U
50-32-8	Benzo(a)pyrene	0.1	U
205-99-2	Benzo(b)fluoranthene	0.19	U
207-08-9	Benzo(k)fluoranthene	0.18	U
218-01-9	Chrysene	0.15	U
53-70-3	Dibenzo(a,h)anthracene	0.31	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.44	U
208-96-8	Acenaphthylene	2.06	U
191-24-2	Benzo(g,h,i)perylene	0.78	U
85-01-8	Phenanthrene	0.66	U

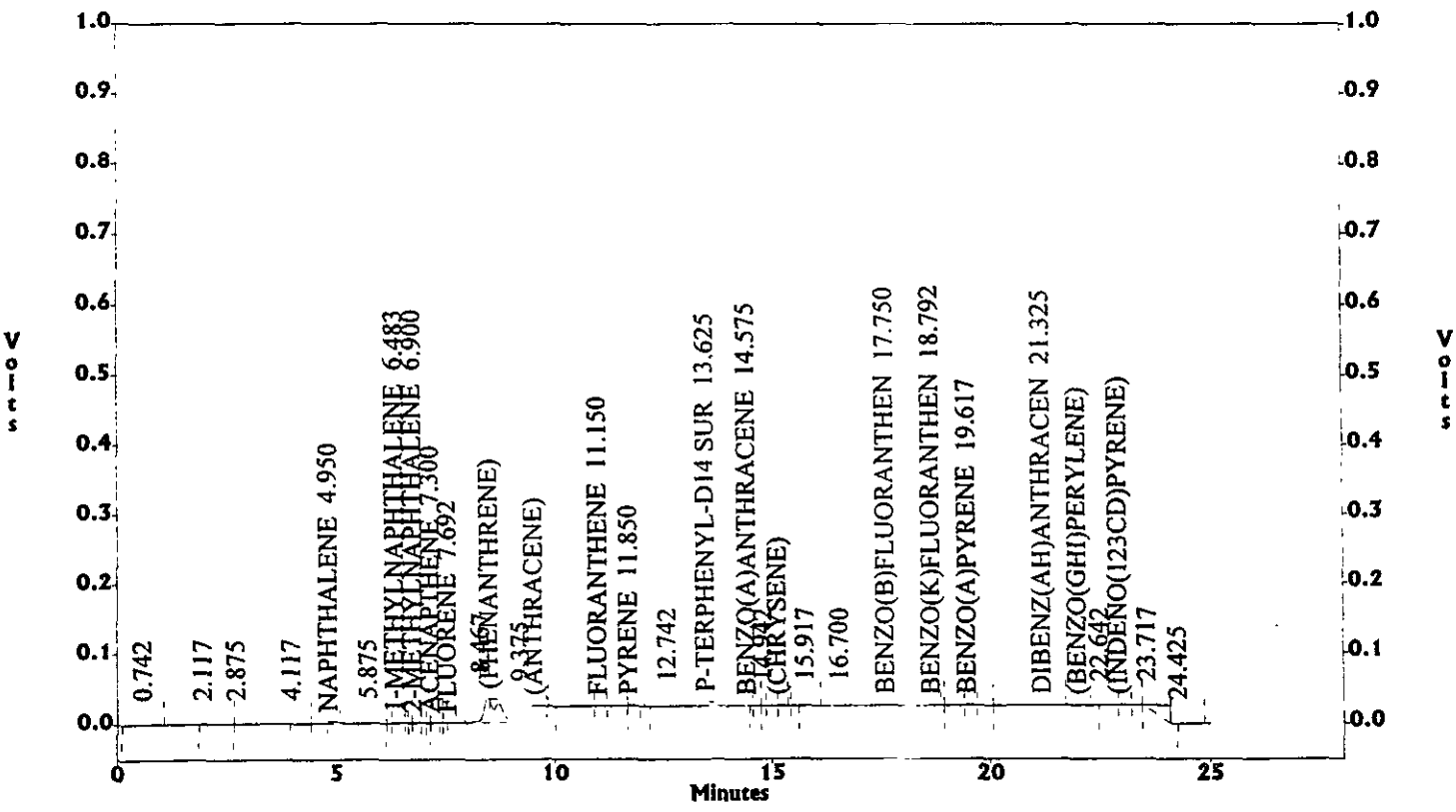
HPLC 1

File : c:\ezchromb\chrom\0326lc3.021
Method : c:\ezchromb\methods\lc1\8310a.met
Sample ID : 38722
Acquired : Mar 26, 2000 23:48:13
Printed : Mar 27, 2000 09:51:48
User : System

c:\ezchromb\chrom\0326lc3.021 -- Channel A



c:\ezchromb\chrom\0326lc3.021 -- Channel B



HPLC 1

File : c:\ezchromb\chrom\03261c3.021
Method : c:\ezchromb\methods\lc1\8310a.met
Sample ID : 38722
Acquired : Mar 26, 2000 23:48:13
Printed : Mar 27, 2000 09:51:48
User : System

Channel A Results

Peak Name	Time	Area	Conc.
NAPHTHALENE	4.81	0	0.00
ACENAPHTYLENE	5.63	0	0.00
1-METHYLNAPHT	6.30	0	0.00
2-METHYLNAPHT	6.68	0	0.00
ACENAPTHENE	7.10	0	0.00
FLUORENE	7.47	0	0.00
PHENANTHRENE	8.62	1788	0.00
ANTHRACENE	9.69	0	0.00
FLUORANTHENE	10.93	0	0.00
PYRENE	11.98	0	0.00
P-TERPHENYL-D	13.52	1169	0.23
BENZO(A)ANTHR	14.61	0	0.00
CHRYSENE	15.18	0	0.00
BENZO(B)FLUOR	17.58	0	0.00
BENZO(K)FLOUR	18.65	0	0.00
BENZO(A)PYREN	19.45	0	0.00
DIBENZ(AH)ANT	21.17	0	0.00
BENZO(GHI)PER	22.03	0	0.00
INDENO(123CD)	22.94	0	0.00

Channel B Results

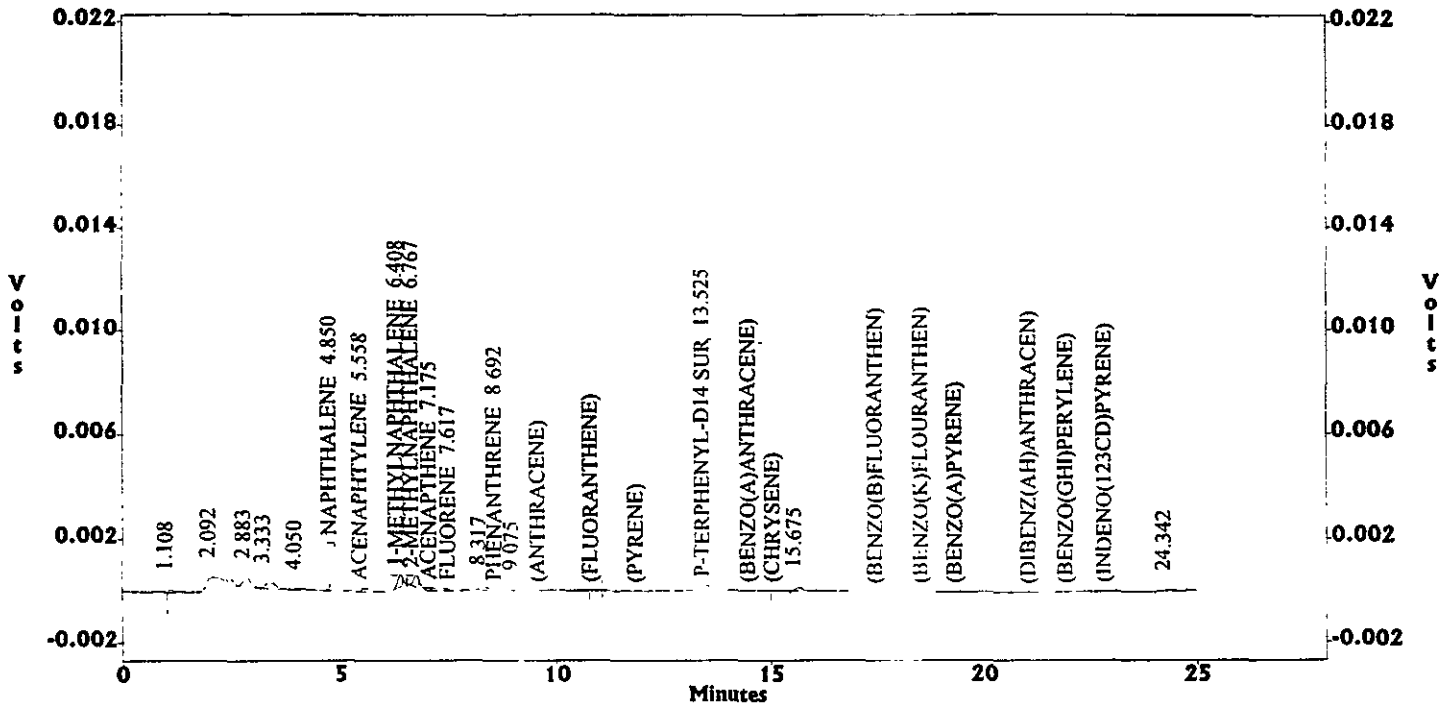
Name	Time	Area	Conc.
NAPHTHALENE	4.95	40286	0.04
1-METHYLNAPHT	6.48	19349	0.02
2-METHYLNAPHT	6.90	13999	0.00
ACENAPTHENE	7.30	2604	0.00
FLUORENE	7.69	2445	0.00
PHENANTHRENE	8.65	0	0.00
ANTHRACENE	9.66	0	0.00
FLUORANTHENE	11.15	19232	0.08
PYRENE	11.85	6563	0.00
P-TERPHENYL-D	13.63	48425	0.21
BENZO(A)ANTHR	14.57	2188	0.00
CHRYSENE	15.27	0	0.00
BENZO(B)FLUOR	17.75	5492	0.00
BENZO(K)FLUOR	18.79	3690	0.00
BENZO(A)PYREN	19.62	7464	0.00
DIBENZ(AH)ANT	21.33	9557	0.00
BENZO(GHI)PER	22.13	0	0.00
INDENO(123CD)	23.06	0	0.00

041

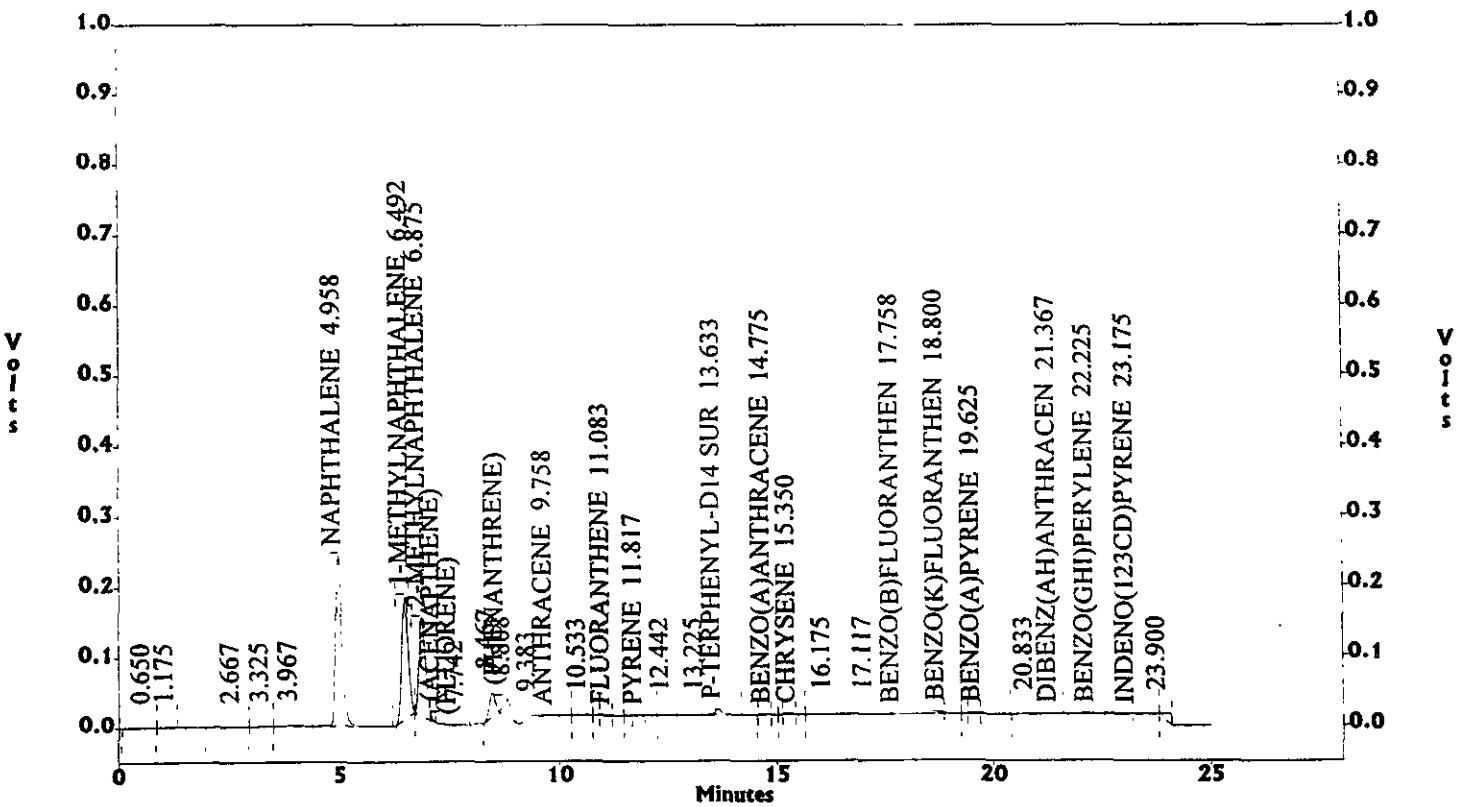
HPLC 1

File : c:\ezchromb\chrom\0326lc3.022
Method : c:\ezchromb\methods\lc1\8310a.met
Sample ID : 38723
Acquired : Mar 27, 2000 00:14:26
Printed : Mar 27, 2000 09:51:50
User : System

c:\ezchromb\chrom\0326lc3.022 -- Channel A



c:\ezchromb\chrom\0326lc3.022 -- Channel B



HPLC 1

File : c:\ezchromb\chrom\0326lc3.022
Method : c:\ezchromb\methods\lc1\8310a.met
Sample ID : 38723
Acquired : Mar 27, 2000 00:14:26
Printed : Mar 27, 2000 09:51:50
User : System

Channel A Results

Peak Name	Time	Area	Conc.
NAPHTHALENE	4.85	16343	8.61
ACENAPHTYLENE	5.56	1367	0.93
1-METHYLNAPHT	6.41	4060	4.11
2-METHYLNAPHT	6.77	4444	2.87
ACENAPTHENE	7.18	1225	1.95
FLUORENE	7.62	765	0.00
PHENANTHRENE	8.69	750	0.00
ANTHRACENE	9.69	0	0.00
FLUORANTHENE	10.93	0	0.00
PYRENE	11.98	0	0.00
P-TERPHENYL-D	13.52	1651	0.33
BENZO(A)ANTHR	14.61	0	0.00
CHRYSENE	15.18	0	0.00
BENZO(B)FLUOR	17.58	0	0.00
BENZO(K)FLOUR	18.65	0	0.00
BENZO(A)PYREN	19.45	0	0.00
DIBENZ(AH)ANT	21.17	0	0.00
BENZO(GHI)PER	22.03	0	0.00
INDENO(123CD)	22.94	0	0.00

Channel B Results

Name	Time	Area	Conc.
NAPHTHALENE	4.96	2432801	7.93
1-METHYLNAPHT	6.49	1806901	4.02
2-METHYLNAPHT	6.88	1457191	3.09
ACENAPTHENE	7.20	0	0.00
FLUORENE	7.57	0	0.00
PHENANTHRENE	8.65	0	0.00
ANTHRACENE	9.76	3746	0.00
FLUORANTHENE	11.08	6143	0.00
PYRENE	11.82	10565	0.00
P-TERPHENYL-D	13.63	73410	0.32
BENZO(A)ANTHR	14.77	8537	0.00
CHRYSENE	15.35	21718	0.00
BENZO(B)FLUOR	17.76	5185	0.00
BENZO(K)FLUOR	18.80	40977	0.00
BENZO(A)PYREN	19.63	14314	0.00
DIBENZ(AH)ANT	21.37	5701	0.00
BENZO(GHI)PER	22.23	6540	0.00
INDENO(123CD)	23.17	5997	0.01

SPECIALIZED ASSAYS, INC.
2960 Foster Creighton Dr.
P.O. Box 40566
Nashville, TN 37204-0566
Phone 1-615-726-0177

Sample Identification

AB89502

Matrix: Water
pH:
Units: ug/l
Dilution Factor: 1.
Analysis Method: SW8310
Delivery Group: 184949
Instrument:
Vol Extracted: 970. ml
Extract Vol: 1.00 ml

Lab Sample ID: 00-A38723
Date Sampled:: 3/20/00
Date Received: 3/23/00
Analysis Date: 3/26/00
Analysis Time: 22:03
Sample QC Group: 7429

Extraction Date: 3/24/00

FORM I

CAS NUMBER	ANALYTE	CONCENTRATION	FLAG
91-20-3	Naphthalene	8.88	
83-32-9	Acenapthene	1.03	U
120-12-7	Anthracene	0.68	U
206-44-0	Fluoranthene	0.22	U
7782-41-4	Fluorene	0.22	U
129-00-0	Pyrene	0.28	U
56-55-3	Benzo(a)anthracene	0.13	U
50-32-8	Benzo(a)pyrene	0.1	U
205-99-2	Benzo(b)fluoranthene	0.19	U
207-08-9	Benzo(k)fluoranthene	0.18	U
218-01-9	Chrysene	0.15	U
53-70-3	Dibenzo(a,h)anthracene	0.31	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.44	U
208-96-8	Acenaphthylene	2.06	U
191-24-2	Benzo(g,h,i)perylene	0.78	U
85-01-8	Phenanthrene	0.66	U

SPECIALIZED ASSAYS, INC.
2960 Foster Creighton Dr.
P.O. Box 40566
Nashville, TN 37204-0566
Phone 1-615-726-0177

Sample Identification

AB89503

Matrix: Water
pH:
Units: ug/l
Dilution Factor: 1.
Analysis Method: SW8310
Delivery Group: 184949
Instrument:
Vol Extracted: 980. ml
Extract Vol: 1.00 ml

Lab Sample ID: 00-A38724
Date Sampled:: 3/20/00
Date Received: 3/23/00
Analysis Date: 3/26/00
Analysis Time: 22:03
Sample QC Group: 7429

Extraction Date: 3/24/00

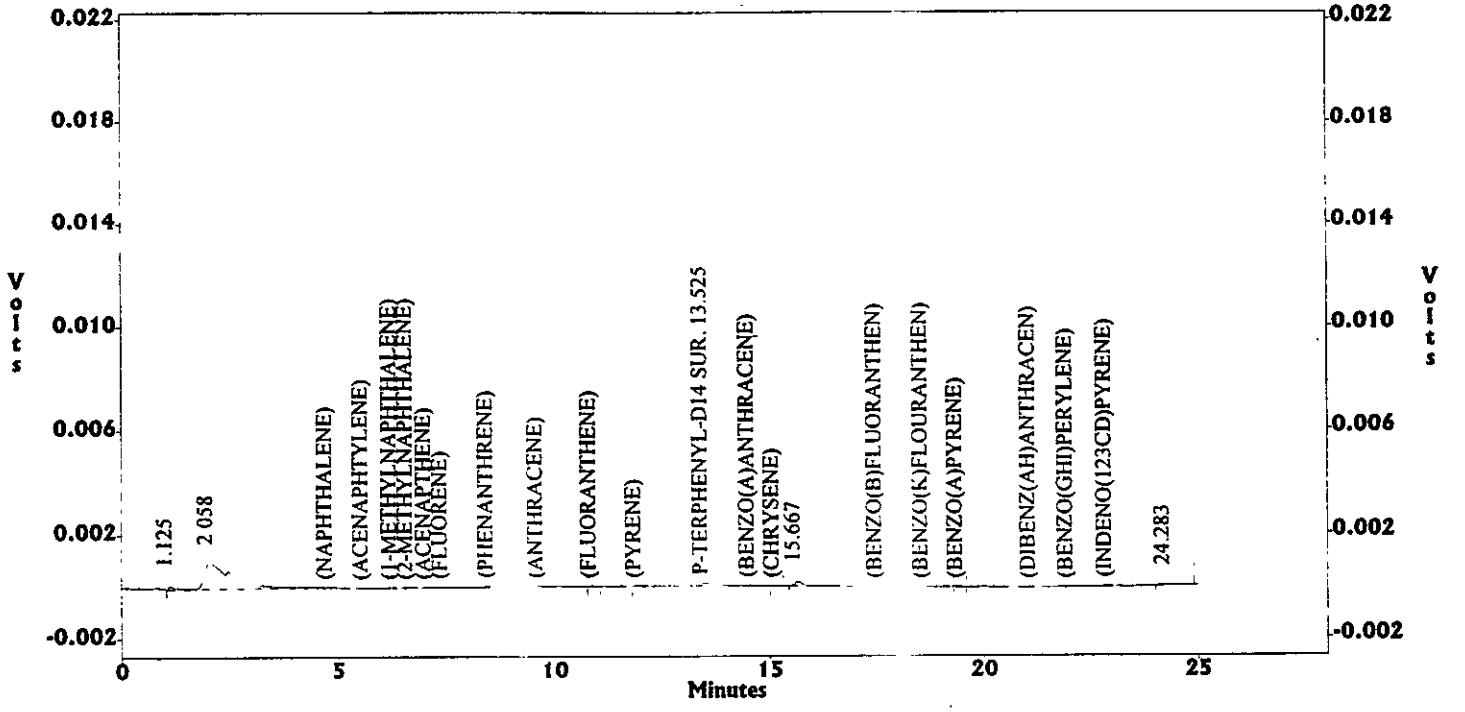
FORM I

CAS NUMBER	ANALYTE	CONCENTRATION	FLAG
91-20-3	Naphthalene	1.02	U
83-32-9	Acenapthene	1.02	U
120-12-7	Anthracene	0.67	U
206-44-0	Fluoranthene	0.21	U
7782-41-4	Fluorene	0.21	U
129-00-0	Pyrene	0.28	U
56-55-3	Benzo(a)anthracene	0.13	U
50-32-8	Benzo(a)pyrene	0.1	U
205-99-2	Benzo(b)fluoranthene	0.18	U
207-08-9	Benzo(k)fluoranthene	0.17	U
218-01-9	Chrysene	0.15	U
53-70-3	Dibenzo(a,h)anthracene	0.31	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.44	U
208-96-8	Acenaphthylene	2.04	U
191-24-2	Benzo(g,h,i)perylene	0.78	U
85-01-8	Phenanthrene	0.65	U

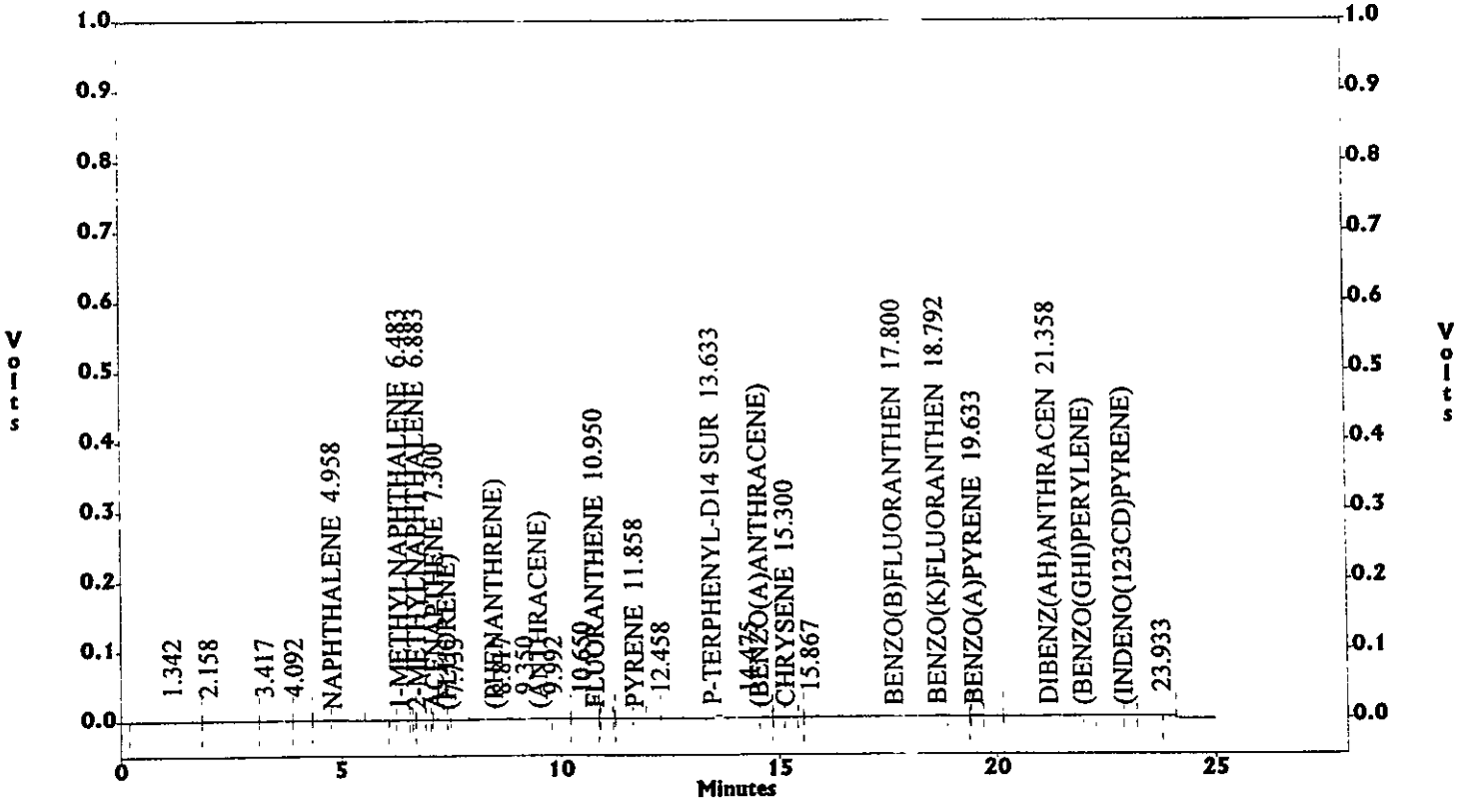
HPLC 1 ###

File : c:\ezchromb\chrom\0326lc3.024
Method : c:\ezchromb\methods\lc1\8310a.met
Sample ID : 38724
Acquired : Mar 27, 2000 01:06:53
Printed : Mar 27, 2000 09:51:53
User : System

c:\ezchromb\chrom\0326lc3.024 -- Channel A



c:\ezchromb\chrom\0326lc3.024 -- Channel B



HPLC 1

File : c:\ezchromb\chrom\0326lc3.024
Method : c:\ezchromb\methods\lc1\8310a.met
Sample ID : 38724
Acquired : Mar 27, 2000 01:06:53
Printed : Mar 27, 2000 09:51:53
User : System

Channel A Results

Peak Name	Time	Area	Conc.
NAPHTHALENE	4.81	0	0.00
ACENAPHTYLENE	5.63	0	0.00
1-METHYLNAPHT	6.30	0	0.00
2-METHYLNAPHT	6.68	0	0.00
ACENAPTHENE	7.10	0	0.00
FLUORENE	7.47	0	0.00
PHENANTHRENE	8.54	0	0.00
ANTHRACENE	9.69	0	0.00
FLUORANTHENE	10.93	0	0.00
PYRENE	11.98	0	0.00
P-TERPHENYL-D	13.52	897	0.18
BENZO(A)ANTHR	14.61	0	0.00
CHRYSENE	15.18	0	0.00
BENZO(B)FLUOR	17.58	0	0.00
BENZO(K)FLOUR	18.65	0	0.00
BENZO(A)PYREN	19.45	0	0.00
DIBENZ(AH)ANT	21.17	0	0.00
BENZO(GHI)PER	22.03	0	0.00
INDENO(123CD)	22.94	0	0.00

Channel B Results

Name	Time	Area	Conc.
NAPHTHALENE	4.96	17330	0.00
1-METHYLNAPHT	6.48	9330	0.00
2-METHYLNAPHT	6.88	6476	0.00
ACENAPTHENE	7.30	8368	0.00
FLUORENE	7.57	0	0.00
PHENANTHRENE	8.65	0	0.00
ANTHRACENE	9.66	0	0.00
FLUORANTHENE	10.95	2720	0.00
PYRENE	11.86	11452	0.00
P-TERPHENYL-D	13.63	40175	0.17
BENZO(A)ANTHR	14.71	0	0.00
CHRYSENE	15.30	12582	0.00
BENZO(B)FLUOR	17.80	2675	0.00
BENZO(K)FLUOR	18.79	17092	0.00
BENZO(A)PYREN	19.63	7694	0.00
DIBENZ(AH)ANT	21.36	8577	0.00
BENZO(GHI)PER	22.13	0	0.00
INDENO(123CD)	23.06	0	0.00

SPECIALIZED ASSAYS, INC.
2960 Foster Creighton Dr.
P.O. Box 40566
Nashville, TN 37204-0566
Phone 1-615-726-0177

Sample Identification

AB89504

Matrix: Water
pH:
Units: ug/l
Dilution Factor: 1.
Analysis Method: SW8310
Delivery Group: 184949
Instrument:
Vol Extracted: 980. ml
Extract Vol: 1.00 ml

Lab Sample ID: 00-A38725
Date Sampled:: 3/20/00
Date Received: 3/23/00
Analysis Date: 3/26/00
Analysis Time: 22:03
Sample QC Group: 7429

Extraction Date: 3/24/00

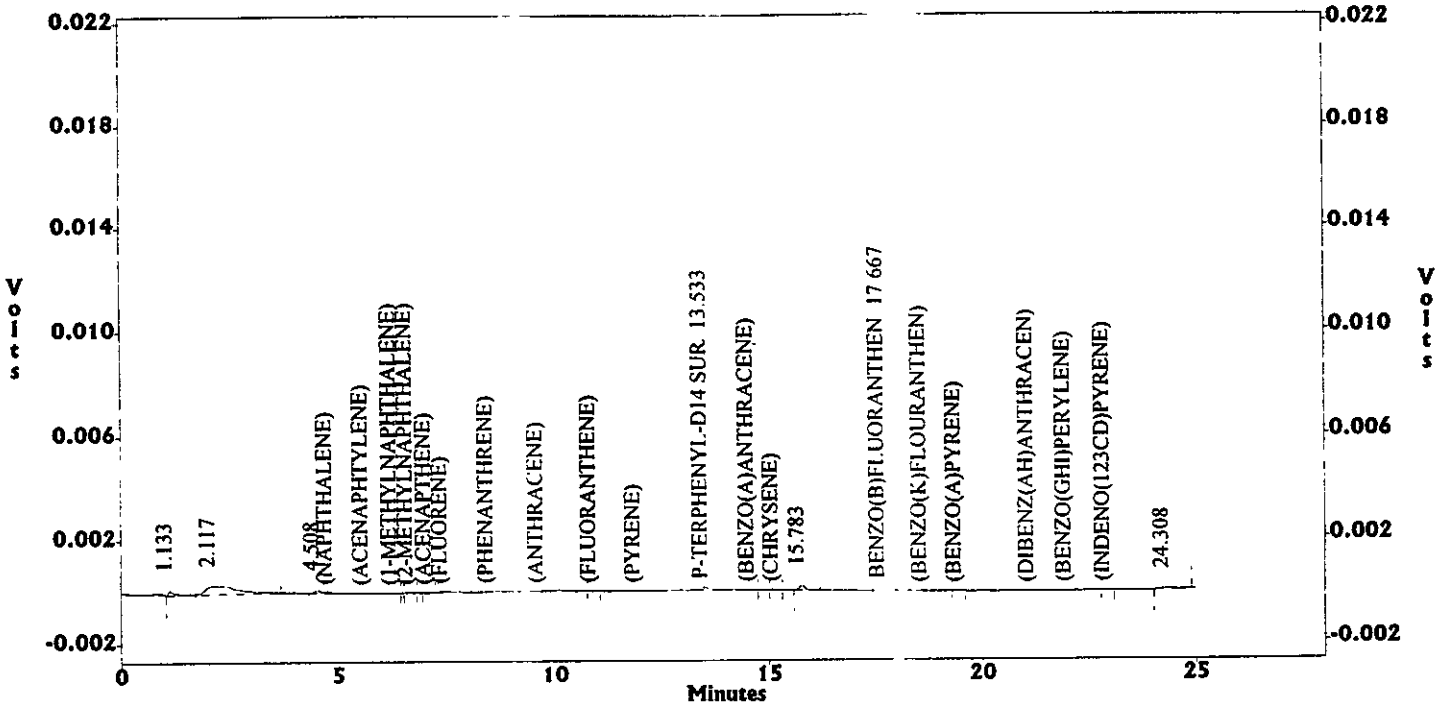
FORM I

CAS NUMBER	ANALYTE	CONCENTRATION	FLAG
91-20-3	Naphthalene	1.02	U
83-32-9	Acenapthene	1.02	U
120-12-7	Anthracene	0.67	U
206-44-0	Fluoranthene	0.21	U
7782-41-4	Fluorene	0.21	U
129-00-0	Pyrene	0.28	U
56-55-3	Benzo(a)anthracene	0.13	U
50-32-8	Benzo(a)pyrene	0.1	U
205-99-2	Benzo(b)fluoranthene	0.18	U
207-08-9	Benzo(k)fluoranthene	0.17	U
218-01-9	Chrysene	0.15	U
53-70-3	Dibenzo(a,h)anthracene	0.31	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.44	U
208-96-8	Acenaphthylene	2.04	U
191-24-2	Benzo(g,h,i)perylene	0.78	U
85-01-8	Phenanthrene	0.65	U

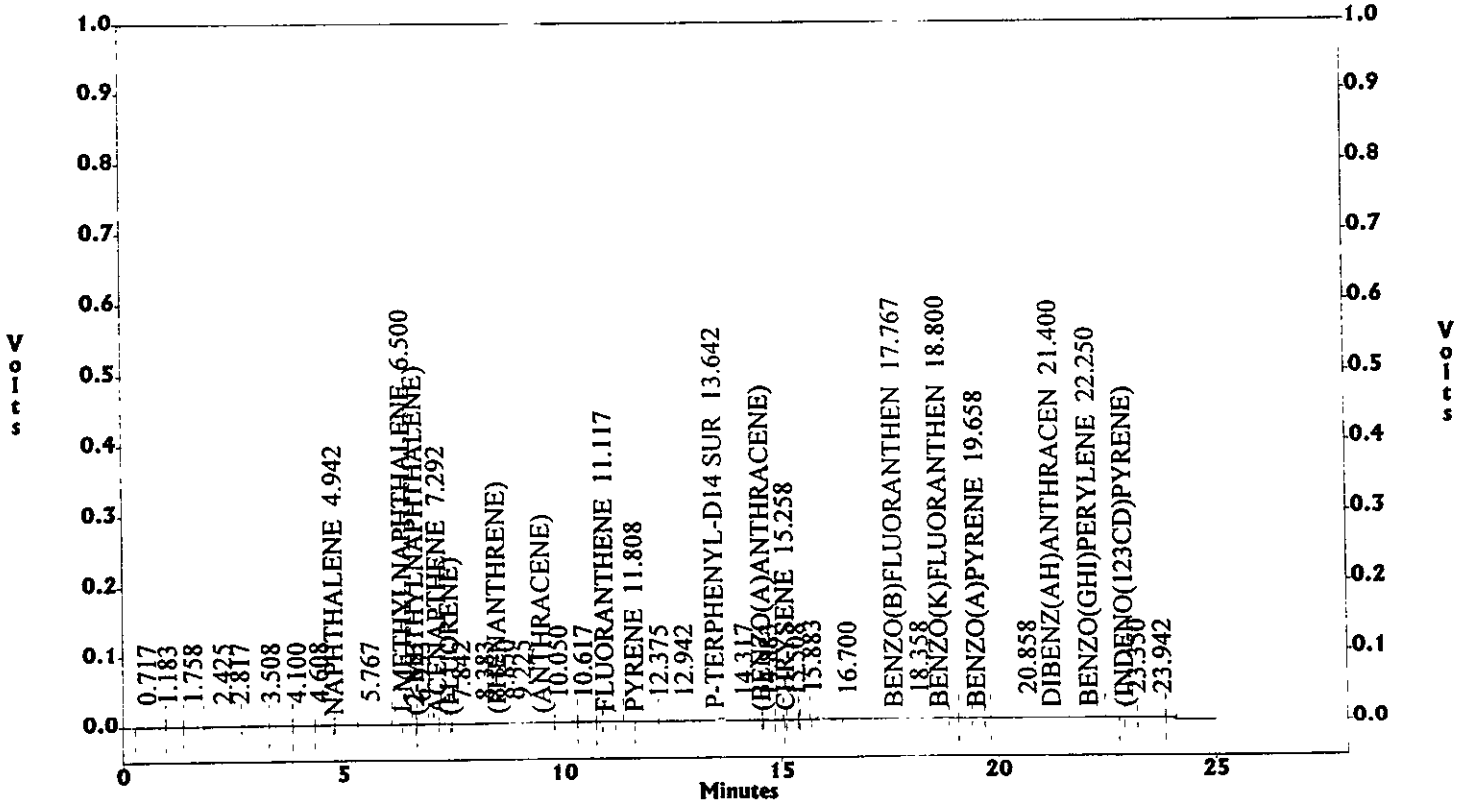
HPLC 1

File : c:\ezchromb\chrom\0326lc3.025
Method : c:\ezchromb\methods\lc1\8310a.met
Sample ID : 38725
Acquired : Mar 27, 2000 01:33:06
Printed : Mar 27, 2000 09:51:55
User : System

c:\ezchromb\chrom\0326lc3.025 -- Channel A



c:\ezchromb\chrom\0326lc3.025 -- Channel B



HPLC 1

File : c:\ezchromb\chrom\0326lc3.025
Method : c:\ezchromb\methods\lc1\8310a.met
Sample ID : 38725
Acquired : Mar 27, 2000 01:33:06
Printed : Mar 27, 2000 09:51:55
User : System

Channel A Results

Peak Name	Time	Area	Conc.
NAPHTHALENE	4.81	0	0.00
ACENAPHTYLENE	5.63	0	0.00
1-METHYLNAPHT	6.30	0	0.00
2-METHYLNAPHT	6.68	0	0.00
ACENAPTHENE	7.10	0	0.00
FLUORENE	7.47	0	0.00
PHENANTHRENE	8.54	0	0.00
ANTHRACENE	9.69	0	0.00
FLUORANTHENE	10.93	0	0.00
PYRENE	11.98	0	0.00
P-TERPHENYL-D	13.53	928	0.19
BENZO(A)ANTHR	14.61	0	0.00
CHRYSENE	15.18	0	0.00
BENZO(B)FLUOR	17.67	1381	0.07
BENZO(K)FLOUR	18.65	0	0.00
BENZO(A)PYREN	19.45	0	0.00
DIBENZ(AH)ANT	21.17	0	0.00
BENZO(GHI)PER	22.03	0	0.00
INDENO(123CD)	22.94	0	0.00

Channel B Results

Name	Time	Area	Conc.
NAPHTHALENE	4.94	8902	0.00
1-METHYLNAPHT	6.50	3826	0.00
2-METHYLNAPHT	6.78	0	0.00
ACENAPTHENE	7.29	5376	0.00
FLUORENE	7.57	0	0.00
PHENANTHRENE	8.65	0	0.00
ANTHRACENE	9.66	0	0.00
FLUORANTHENE	11.12	7590	0.01
PYRENE	11.81	7326	0.00
P-TERPHENYL-D	13.64	38011	0.16
BENZO(A)ANTHR	14.71	0	0.00
CHRYSENE	15.26	4068	0.00
BENZO(B)FLUOR	17.77	14703	0.00
BENZO(K)FLUOR	18.80	9891	0.00
BENZO(A)PYREN	19.66	7109	0.00
DIBENZ(AH)ANT	21.40	2379	0.00
BENZO(GHI)PER	22.25	5761	0.00
INDENO(123CD)	23.06	0	0.00

SPECIALIZED ASSAYS, INC.
2960 Foster Creighton Dr.
P.O. Box 40566
Nashville, TN 37204-0566
Phone 1-615-726-0177

Sample Identification

AB89505

Matrix: Water
pH:
Units: ug/l
Dilution Factor: 1.
Analysis Method: SW8310
Delivery Group: 184949
Instrument:
Vol Extracted: 980. ml
Extract Vol: 1.00 ml

Lab Sample ID: 00-A38726
Date Sampled:: 3/20/00
Date Received: 3/23/00
Analysis Date: 3/26/00
Analysis Time: 22:03
Sample QC Group: 7429

Extraction Date: 3/24/00

FORM I

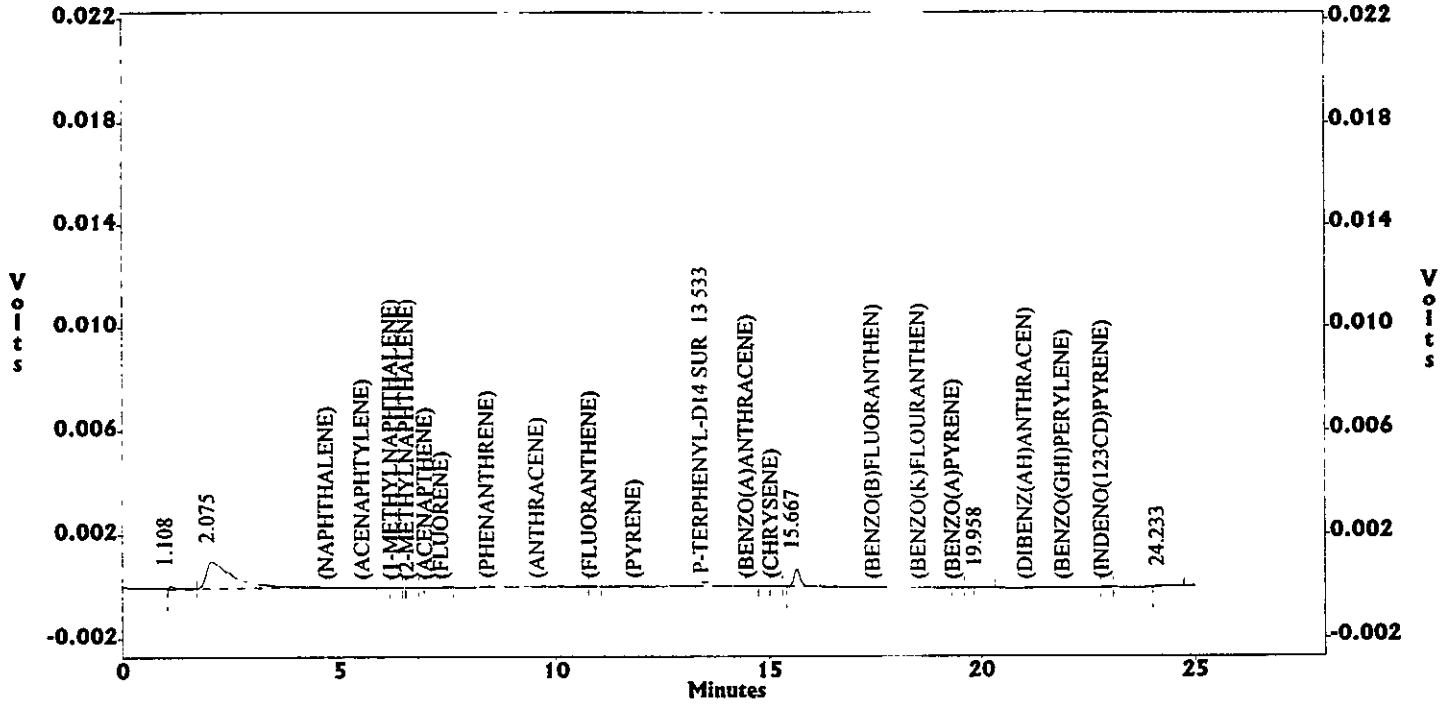
CAS NUMBER	ANALYTE	CONCENTRATION	FLAG
91-20-3	Naphthalene	1.02	U
83-32-9	Acenapthene	1.02	U
120-12-7	Anthracene	0.67	U
206-44-0	Fluoranthene	0.21	U
7782-41-4	Fluorene	0.21	U
129-00-0	Pyrene	0.28	U
56-55-3	Benzo(a)anthracene	0.13	U
50-32-8	Benzo(a)pyrene	0.1	U
205-99-2	Benzo(b)fluoranthene	0.18	U
207-08-9	Benzo(k)fluoranthene	0.17	U
218-01-9	Chrysene	0.15	U
53-70-3	Dibenzo(a,h)anthracene	0.31	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.44	U
208-96-8	Acenaphthylene	2.04	U
191-24-2	Benzo(g,h,i)perylene	0.78	U
85-01-8	Phenanthrene	0.65	U

047

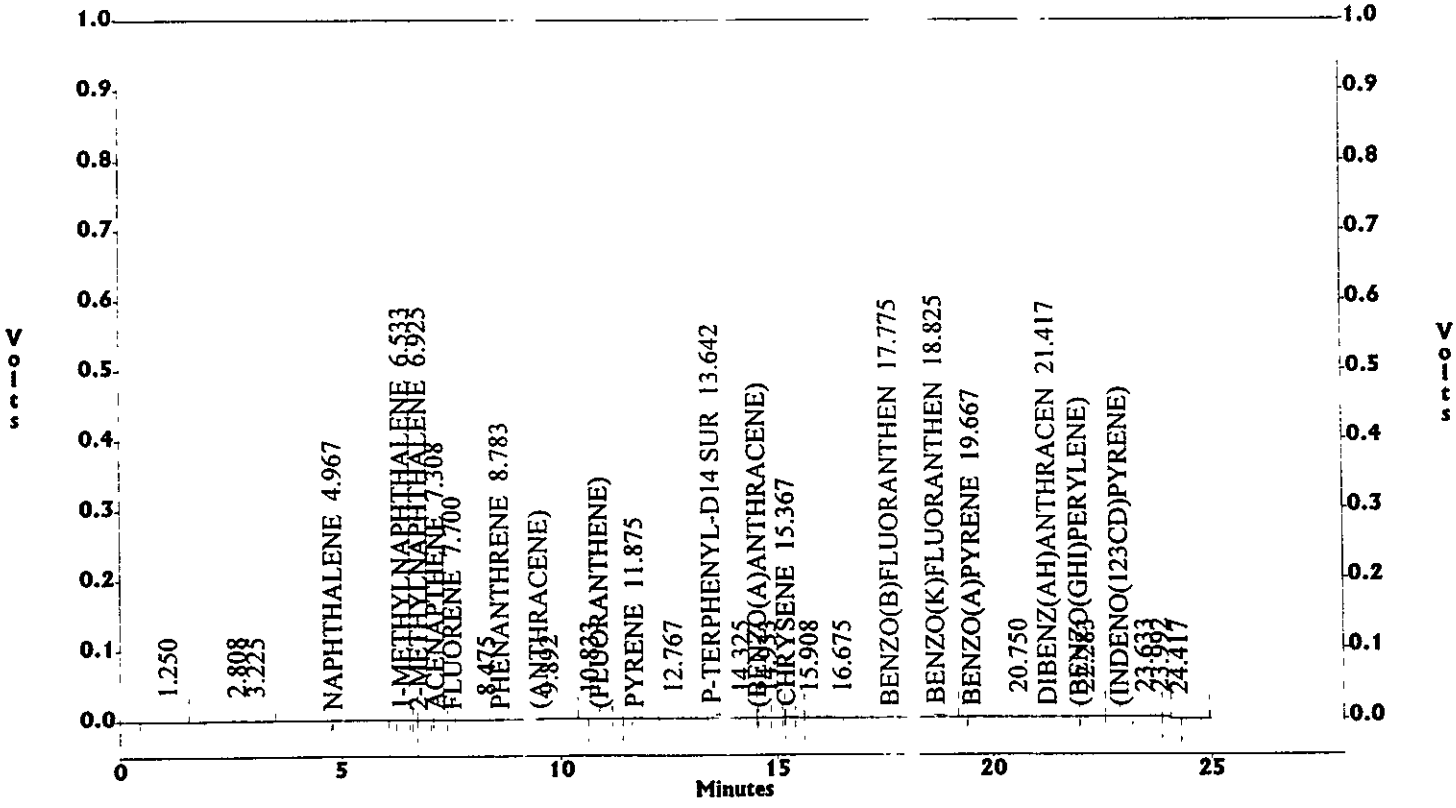
HPLC 1

File : c:\ezchromb\chrom\0326lc3.026
Method : c:\ezchromb\methods\lc1\8310a.met
Sample ID : 38726
Acquired : Mar 27, 2000 01:59:23
Printed : Mar 27, 2000 09:51:56
User : System

c:\ezchromb\chrom\0326lc3.026 -- Channel A



c:\ezchromb\chrom\0326lc3.026 -- Channel B



HPLC 1

File : c:\ezchromb\chrom\0326lc3.026
Method : c:\ezchromb\methods\lc1\8310a.met
Sample ID : 38726
Acquired : Mar 27, 2000 01:59:23
Printed : Mar 27, 2000 09:51:56
User : System

Channel A Results

Peak Name	Time	Area	Conc.
NAPHTHALENE	4.81	0	0.00
ACENAPHTYLENE	5.63	0	0.00
1-METHYLNAPHT	6.30	0	0.00
2-METHYLNAPHT	6.68	0	0.00
ACENAPTHENE	7.10	0	0.00
FLUORENE	7.47	0	0.00
PHENANTHRENE	8.54	0	0.00
ANTHRACENE	9.69	0	0.00
FLUORANTHENE	10.93	0	0.00
PYRENE	11.98	0	0.00
P-TERPHENYL-D	13.53	1513	0.30
BENZO(A)ANTHR	14.61	0	0.00
CHRYSENE	15.18	0	0.00
BENZO(B)FLUOR	17.58	0	0.00
BENZO(K)FLOUR	18.65	0	0.00
BENZO(A)PYREN	19.45	0	0.00
DIBENZ(AH)ANT	21.17	0	0.00
BENZO(GHI)PER	22.03	0	0.00
INDENO(123CD)	22.94	0	0.00

Channel B Results

Name	Time	Area	Conc.
NAPHTHALENE	4.97	4805	0.00
1-METHYLNAPHT	6.53	4936	0.00
2-METHYLNAPHT	6.93	3605	0.00
ACENAPTHENE	7.31	4345	0.00
FLUORENE	7.70	2571	0.00
PHENANTHRENE	8.78	3791	0.00
ANTHRACENE	9.66	0	0.00
FLUORANTHENE	11.05	0	0.00
PYRENE	11.88	9323	0.00
P-TERPHENYL-D	13.64	62904	0.27
BENZO(A)ANTHR	14.71	0	0.00
CHRYSENE	15.37	18058	0.00
BENZO(B)FLUOR	17.77	6736	0.00
BENZO(K)FLUOR	18.83	36451	0.00
BENZO(A)PYREN	19.67	4511	0.00
DIBENZ(AH)ANT	21.42	9787	0.00
BENZO(GHI)PER	22.13	0	0.00
INDENO(123CD)	23.06	0	0.00

SPECIALIZED ASSAYS, INC.
2960 Foster Creighton Dr.
P.O. Box 40566
Nashville, TN 37204-0566
Phone 1-615-726-0177

Sample Identification

AB89506

Matrix: Water
pH:
Units: ug/l
Dilution Factor: 1.
Analysis Method: SW8310
Delivery Group: 184949
Instrument:
Vol Extracted: 980. ml
Extract Vol: 1.00 ml

Lab Sample ID: 00-A38727
Date Sampled:: 3/20/00
Date Received: 3/23/00
Analysis Date: 3/26/00
Analysis Time: 22:03
Sample QC Group: 7429

Extraction Date: 3/24/00

FORM I

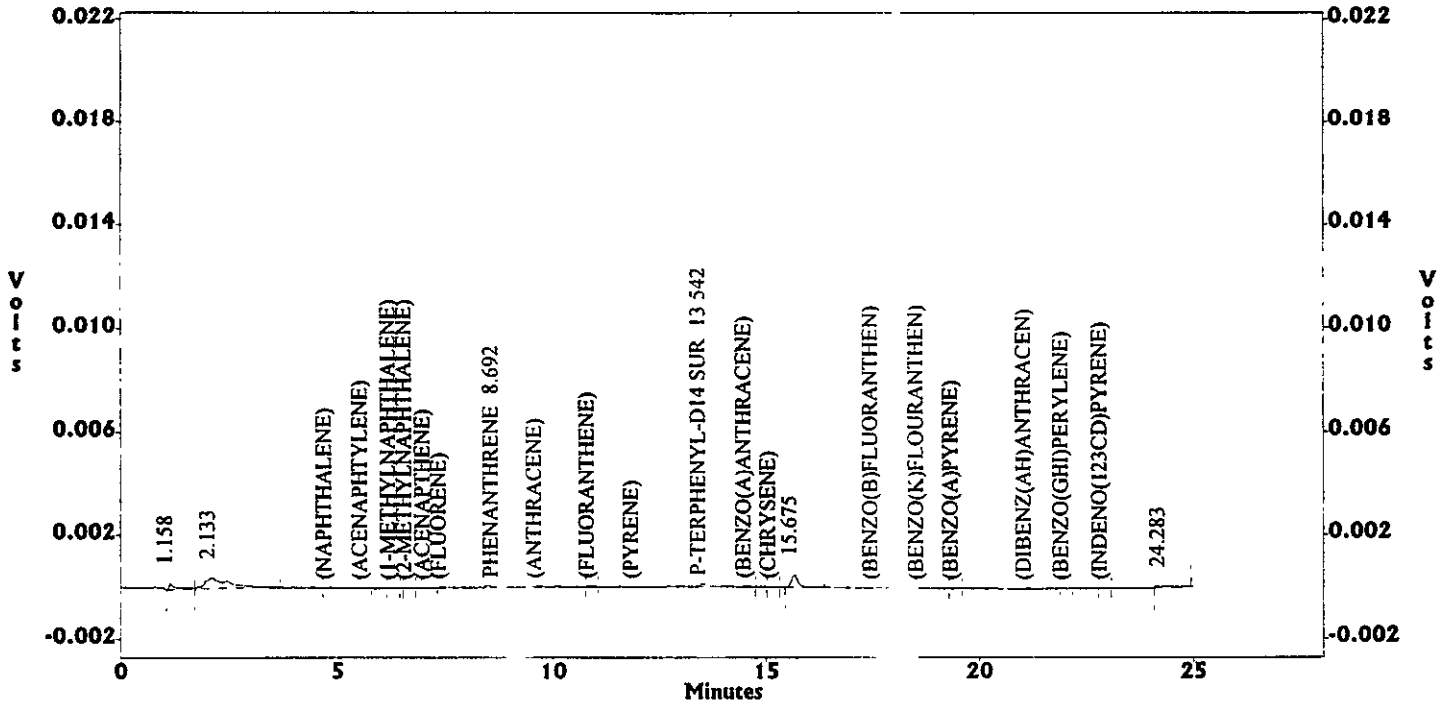
CAS NUMBER	ANALYTE	CONCENTRATION	FLAG
91-20-3	Naphthalene	1.02	U
83-32-9	Acenapthene	1.02	U
120-12-7	Anthracene	0.67	U
206-44-0	Fluoranthene	0.21	U
7782-41-4	Fluorene	0.21	U
129-00-0	Pyrene	0.28	U
56-55-3	Benzo(a)anthracene	0.13	U
50-32-8	Benzo(a)pyrene	0.1	U
205-99-2	Benzo(b)fluoranthene	0.18	U
207-08-9	Benzo(k)fluoranthene	0.17	U
218-01-9	Chrysene	0.15	U
53-70-3	Dibenzo(a,h)anthracene	0.31	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.44	U
208-96-8	Acenaphthylene	2.04	U
191-24-2	Benzo(g,h,i)perylene	0.78	U
85-01-8	Phenanthrene	0.65	U

049

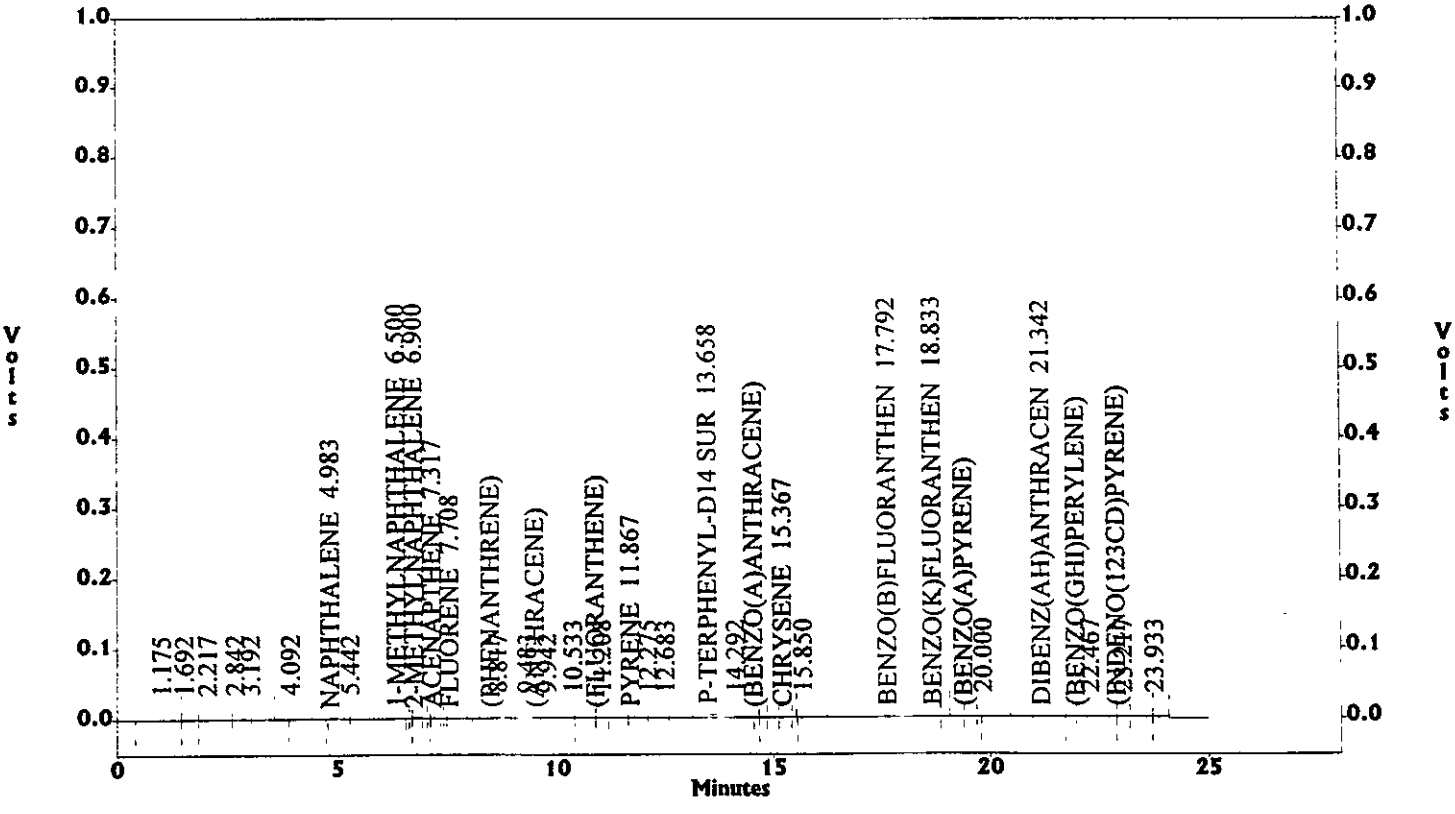
HPLC 1

File : c:\ezchromb\chrom\0326lc3.027
Method : c:\ezchromb\methods\lc1\8310a.met
Sample ID : 38727
Acquired : Mar 27, 2000 02:25:37
Printed : Mar 27, 2000 09:51:57
User : System

c:\ezchromb\chrom\0326lc3.027 -- Channel A



c:\ezchromb\chrom\0326lc3.027 -- Channel B



HPLC 1

File : c:\ezchromb\chrom\0326lc3.027
Method : c:\ezchromb\methods\lc1\8310a.met
Sample ID : 38727
Acquired : Mar 27, 2000 02:25:37
Printed : Mar 27, 2000 09:51:57
User : System

Channel A Results

Peak Name	Time	Area	Conc.
NAPHTHALENE	4.81	0	0.00
ACENAPHTYLENE	5.63	0	0.00
1-METHYLNAPHT	6.30	0	0.00
2-METHYLNAPHT	6.68	0	0.00
ACENAPTHENE	7.10	0	0.00
FLUORENE	7.47	0	0.00
PHENANTHRENE	8.69	608	0.00
ANTHRACENE	9.69	0	0.00
FLUORANTHENE	10.93	0	0.00
PYRENE	11.98	0	0.00
P-TERPHENYL-D	13.54	949	0.19
BENZO(A)ANTHR	14.61	0	0.00
CHRYSENE	15.18	0	0.00
BENZO(B)FLUOR	17.58	0	0.00
BENZO(K)FLOUR	18.65	0	0.00
BENZO(A)PYREN	19.45	0	0.00
DIBENZ(AH)ANT	21.17	0	0.00
BENZO(GHI)PER	22.03	0	0.00
INDENO(123CD)	22.94	0	0.00

Channel B Results

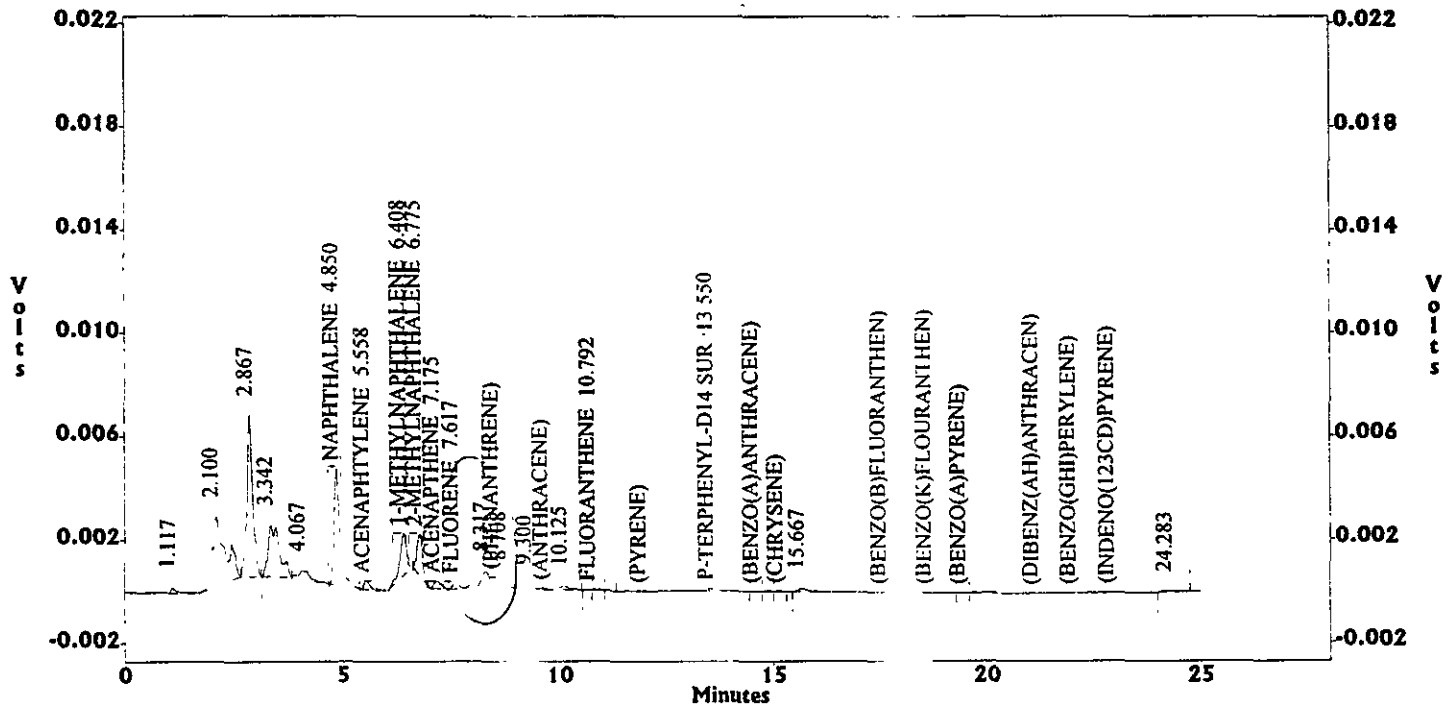
Name	Time	Area	Conc.
NAPHTHALENE	4.98	13087	0.00
1-METHYLNAPHT	6.50	15028	0.01
2-METHYLNAPHT	6.90	15476	0.00
ACENAPTHENE	7.32	6737	0.00
FLUORENE	7.71	4653	0.00
PHENANTHRENE	8.65	0	0.00
ANTHRACENE	9.66	0	0.00
FLUORANTHENE	11.05	0	0.00
PYRENE	11.87	8137	0.00
P-TERPHENYL-D	13.66	48889	0.21
BENZO(A)ANTHR	14.71	0	0.00
CHRYSENE	15.37	15094	0.00
BENZO(B)FLUOR	17.79	3949	0.00
BENZO(K)FLUOR	18.83	4357	0.00
BENZO(A)PYREN	19.55	0	0.00
DIBENZ(AH)ANT	21.34	3429	0.00
BENZO(GHI)PER	22.13	0	0.00
INDENO(123CD)	23.06	0	0.00

051

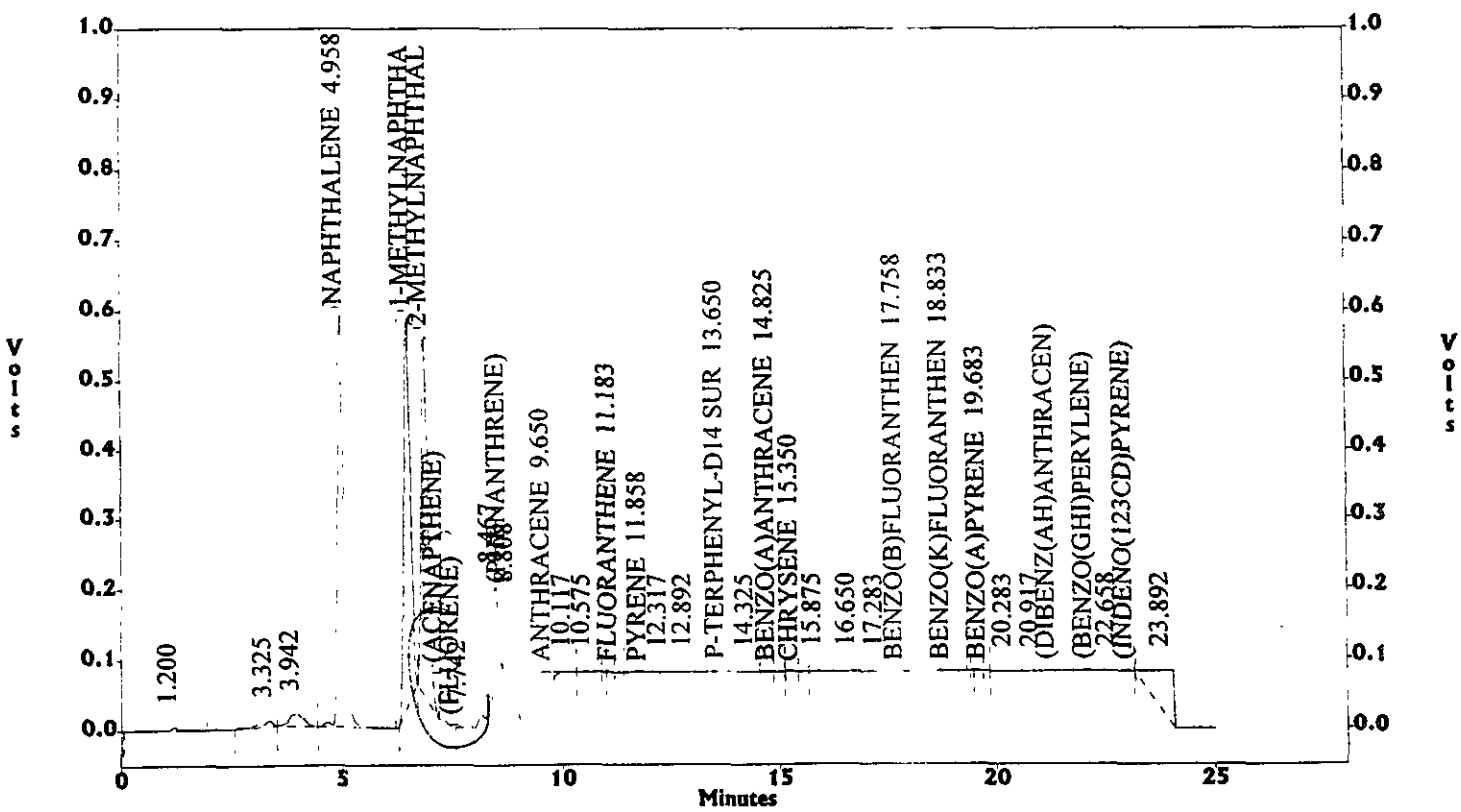
HPLC 1

File : c:\ezchromb\chrom\0326lc3.028
Method : c:\ezchromb\methods\lc1\8310a.met
Sample ID : 38728
Acquired : Mar 27, 2000 02:51:51
Printed : Mar 27, 2000 09:51:59
User : System

c:\ezchromb\chrom\0326lc3.028 -- Channel A



c:\ezchromb\chrom\0326lc3.028 -- Channel B



SPECIALIZED ASSAYS, INC.
2960 Foster Creighton Dr.
P.O. Box 40566
Nashville, TN 37204-0566
Phone 1-615-726-0177

Sample Identification

AB89507

Matrix: Water
pH:
Units: ug/l
Dilution Factor: 5.
Analysis Method: SW8310
Delivery Group: 184949
Instrument:
Vol Extracted: 980. ml
Extract Vol: 1.00 ml

Lab Sample ID: 00-A38728
Date Sampled:: 3/20/00
Date Received: 3/23/00
Analysis Date: 3/26/00
Analysis Time: 22:03
Sample QC Group: 7429

Extraction Date: 3/24/00

FORM I

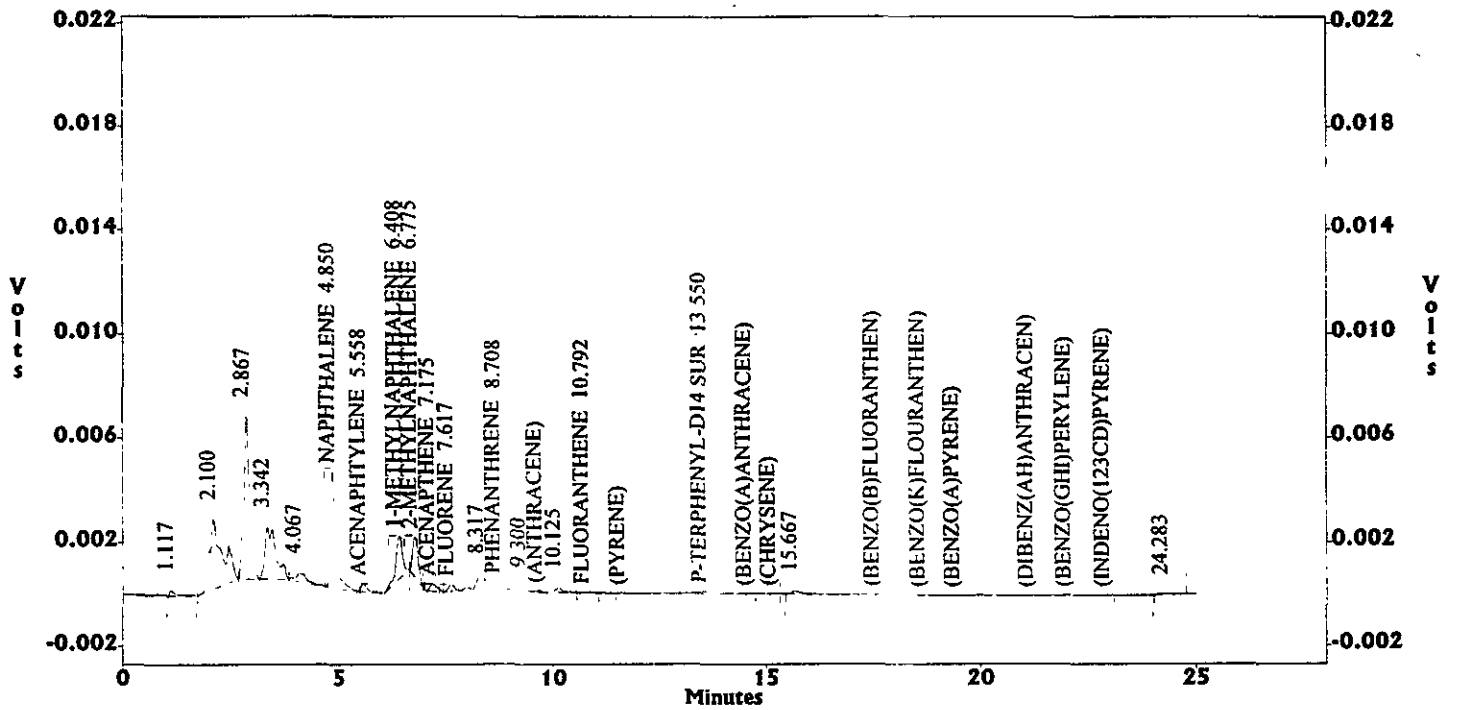
CAS NUMBER	ANALYTE	CONCENTRATION	FLAG
91-20-3	Naphthalene	20.6	
83-32-9	Acenapthene	1.02	U
120-12-7	Anthracene	0.67	U
206-44-0	Fluoranthene	0.21	U
7782-41-4	Fluorene	0.21	U
129-00-0	Pyrene	0.28	U
56-55-3	Benzo(a)anthracene	0.13	U
50-32-8	Benzo(a)pyrene	0.1	U
205-99-2	Benzo(b)fluoranthene	0.18	U
207-08-9	Benzo(k)fluoranthene	0.17	U
218-01-9	Chrysene	0.15	U
53-70-3	Dibenzo(a,h)anthracene	0.31	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.44	U
208-96-8	Acenaphthylene	2.04	U
191-24-2	Benzo(g,h,i)perylene	0.78	U
85-01-8	Phenanthrene	0.65	U

053

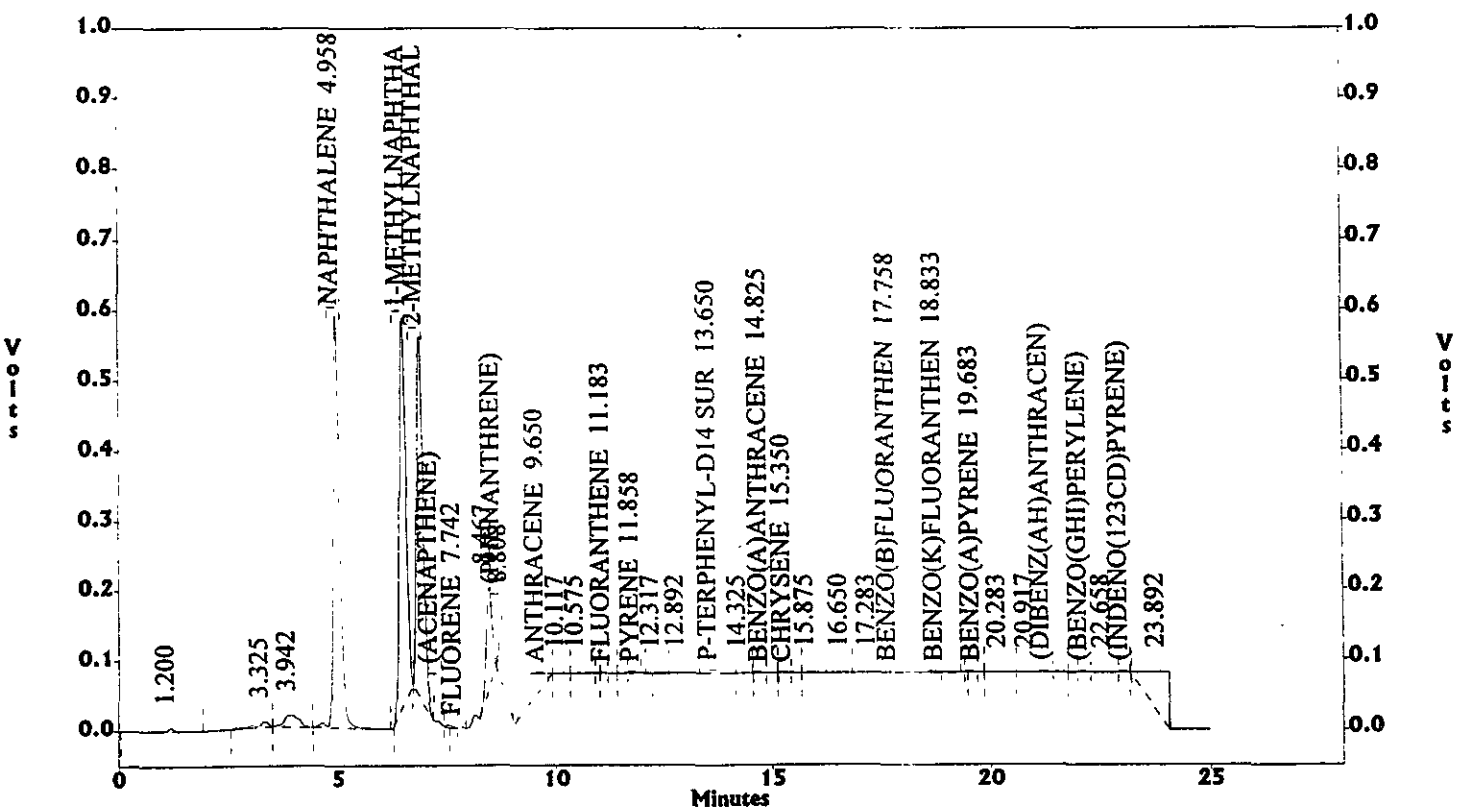
HPLC 1

File : c:\ezchromb\chrom\0326lc3.028
Method : c:\ezchromb\methods\lc1\8310a.met
Sample ID : 38728
Acquired : Mar 27, 2000 02:51:51
Printed : Mar 29, 2000 13:40:23
User : System

c:\ezchromb\chrom\0326lc3.028 -- Channel A



c:\ezchromb\chrom\0326lc3.028 -- Channel B



HPLC 1

File : c:\ezchromb\chrom\0326lc3.028
Method : c:\ezchromb\methods\lc1\8310a.met
Sample ID : 38728
Acquired : Mar 27, 2000 02:51:51
Printed : Mar 29, 2000 13:40:23
User : System

Channel A Results

Peak Name	Time	Area	Conc.
NAPHTHALENE	4.85	41029	21.88
ACENAPHTYLENE	5.56	3348	2.44 not real
1-METHYLNAPHT	6.41	17875	18.06
2-METHYLNAPHT	6.78	13927	9.24
ACENAPTHENE	7.18	3294	5.35
FLUORENE	7.62	2590	0.20 LC
PHENANTHRENE	8.71	2728	0.01
ANTHRACENE	9.69	0	0.00
FLUORANTHENE	10.79	753	0.10
PYRENE	11.63	0	0.00
P-TERPHENYL-D	13.55	742	0.15
BENZO(A)ANTHR	14.61	0	0.00
CHRYSENE	15.18	0	0.00
BENZO(B)FLUOR	17.58	0	0.00
BENZO(K)FLOUR	18.65	0	0.00
BENZO(A)PYREN	19.45	0	0.00
DIBENZ(AH)ANT	21.17	0	0.00
BENZO(GHI)PER	22.03	0	0.00
INDENO(123CD)	22.94	0	0.00

Channel B Results

Name	Time	Area	Conc.
NAPHTHALENE	4.96	5972051	19.59
1-METHYLNAPHT	6.49	5747410	12.83
2-METHYLNAPHT	6.88	5390012	11.66
ACENAPTHENE	7.20	0	0.00
FLUORENE	7.74	39378	0.05
PHENANTHRENE	8.65	0	0.00
ANTHRACENE	9.65	1021229	10.91 not real
FLUORANTHENE	11.18	2671	0.00
PYRENE	11.86	11253	0.00
P-TERPHENYL-D	13.65	33570	0.14
BENZO(A)ANTHR	14.82	4580	0.00
CHRYSENE	15.35	6619	0.00
BENZO(B)FLUOR	17.76	2735	0.00
BENZO(K)FLUOR	18.83	6445	0.00
BENZO(A)PYREN	19.68	3858	0.00
DIBENZ(AH)ANT	21.27	0	0.00
BENZO(GHI)PER	22.13	0	0.00
INDENO(123CD)	23.06	0	0.00

HPLC 1

File : c:\ezchromb\chrom\0326lc3.028
Method : c:\ezchromb\methods\lc1\8310a.met
Sample ID : 38728
Acquired : Mar 27, 2000 02:51:51
Printed : Mar 27, 2000 09:51:59
User : System

Channel A Results

Peak Name	Time	Area	Conc.
NAPHTHALENE	4.85	41029	21.88
ACENAPHTYLENE	5.56	3348	2.44 not real
1-METHYLNAPHT	6.41	17875	18.06
2-METHYLNAPHT	6.78	13927	9.24
ACENAPTHENE	7.18	3294	5.35 NC
FLUORENE	7.62	2590	0.20
PHENANTHRENE	8.54	0	0.00
ANTHRACENE	9.69	0	0.00
FLUORANTHENE	10.79	753	0.10
PYRENE	11.98	0	0.00
P-TERPHENYL-D	13.55	742	0.15
BENZO(A)ANTHR	14.61	0	0.00
CHRYSENE	15.18	0	0.00
BENZO(B)FLUOR	17.58	0	0.00
BENZO(K)FLOUR	18.65	0	0.00
BENZO(A)PYREN	19.45	0	0.00
DIBENZ(AH)ANT	21.17	0	0.00
BENZO(GHI)PER	22.03	0	0.00
INDENO(123CD)	22.94	0	0.00

Channel B Results

Name	Time	Area	Conc.
NAPHTHALENE	4.96	5972051	19.59
1-METHYLNAPHT	6.49	5747410	12.83
2-METHYLNAPHT	6.88	5390012	11.66
ACENAPTHENE	7.20	0	0.00
FLUORENE	7.57	0	0.00
PHENANTHRENE	8.65	0	0.00
ANTHRACENE	9.65	1021229	10.91 not real
FLUORANTHENE	11.18	2671	0.00
PYRENE	11.86	11253	0.00
P-TERPHENYL-D	13.65	33570	0.14
BENZO(A)ANTHR	14.82	4580	0.00
CHRYSENE	15.35	6619	0.00
BENZO(B)FLUOR	17.76	2735	0.00
BENZO(K)FLUOR	18.83	6445	0.00
BENZO(A)PYREN	19.68	3858	0.00
DIBENZ(AH)ANT	21.27	0	0.00
BENZO(GHI)PER	22.13	0	0.00
INDENO(123CD)	23.06	0	0.00

SPECIALIZED ASSAYS, INC.
2960 Foster Creighton Dr.
P.O. Box 40566
Nashville, TN 37204-0566
Phone 1-615-726-0177

Sample Identification

AB89508

Matrix: Water
pH:
Units: ug/l
Dilution Factor: 1.
Analysis Method: SW8310
Delivery Group: 184949
Instrument:
Vol Extracted: 980. ml
Extract Vol: 1.00 ml

Lab Sample ID: 00-A38729
Date Sampled:: 3/20/00
Date Received: 3/23/00
Analysis Date: 3/26/00
Analysis Time: 22:03
Sample QC Group: 7429

Extraction Date: 3/24/00

FORM I

CAS NUMBER	ANALYTE	CONCENTRATION	FLAG
91-20-3	Naphthalene	1.02	U
83-32-9	Acenapthene	1.02	U
120-12-7	Anthracene	0.67	U
206-44-0	Fluoranthene	0.21	U
7782-41-4	Fluorene	0.21	U
129-00-0	Pyrene	0.28	U
56-55-3	Benzo(a)anthracene	0.13	U
50-32-8	Benzo(a)pyrene	0.1	U
205-99-2	Benzo(b)fluoranthene	0.18	U
207-08-9	Benzo(k)fluoranthene	0.17	U
218-01-9	Chrysene	0.15	U
53-70-3	Dibenzo(a,h)anthracene	0.31	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.44	U
208-96-8	Acenaphthylene	2.04	U
191-24-2	Benzo(g,h,i)perylene	0.78	U
85-01-8	Phenanthrene	0.65	U

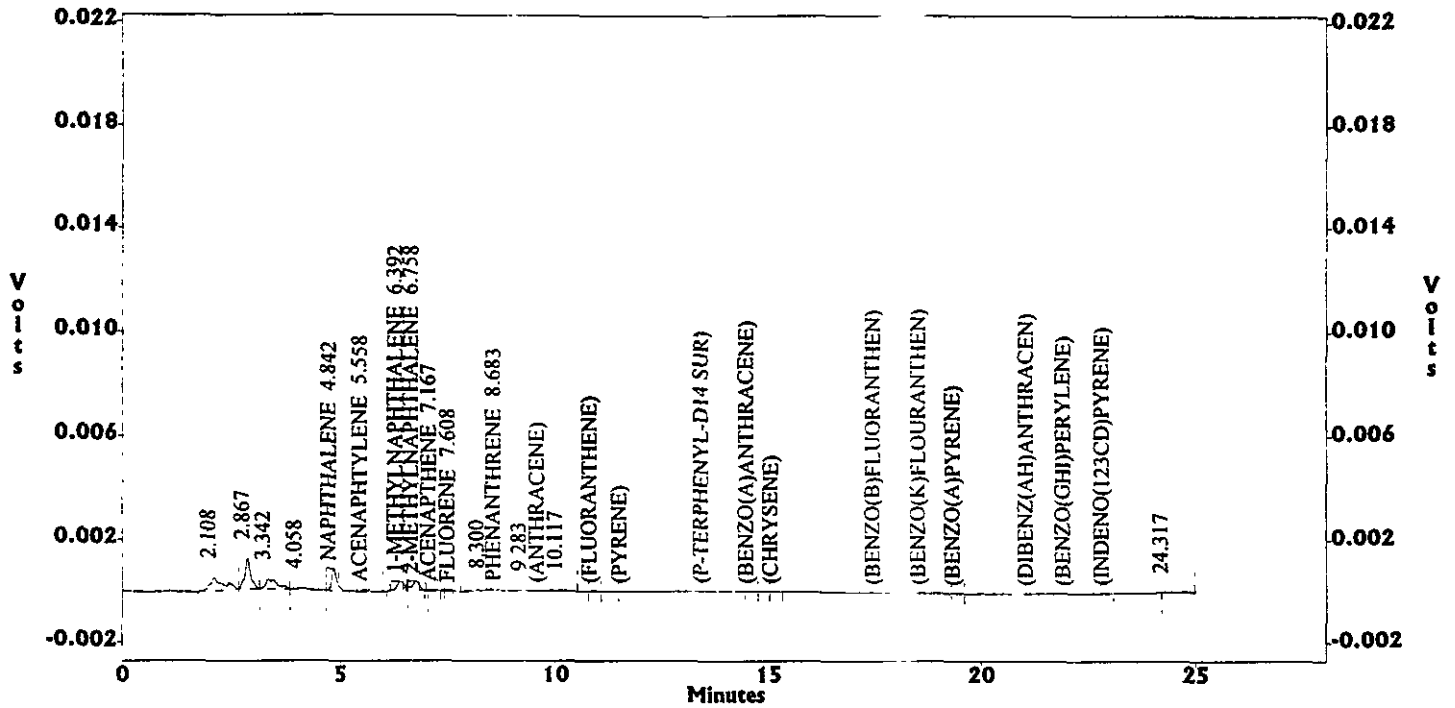
COPY 1

HPLC 1

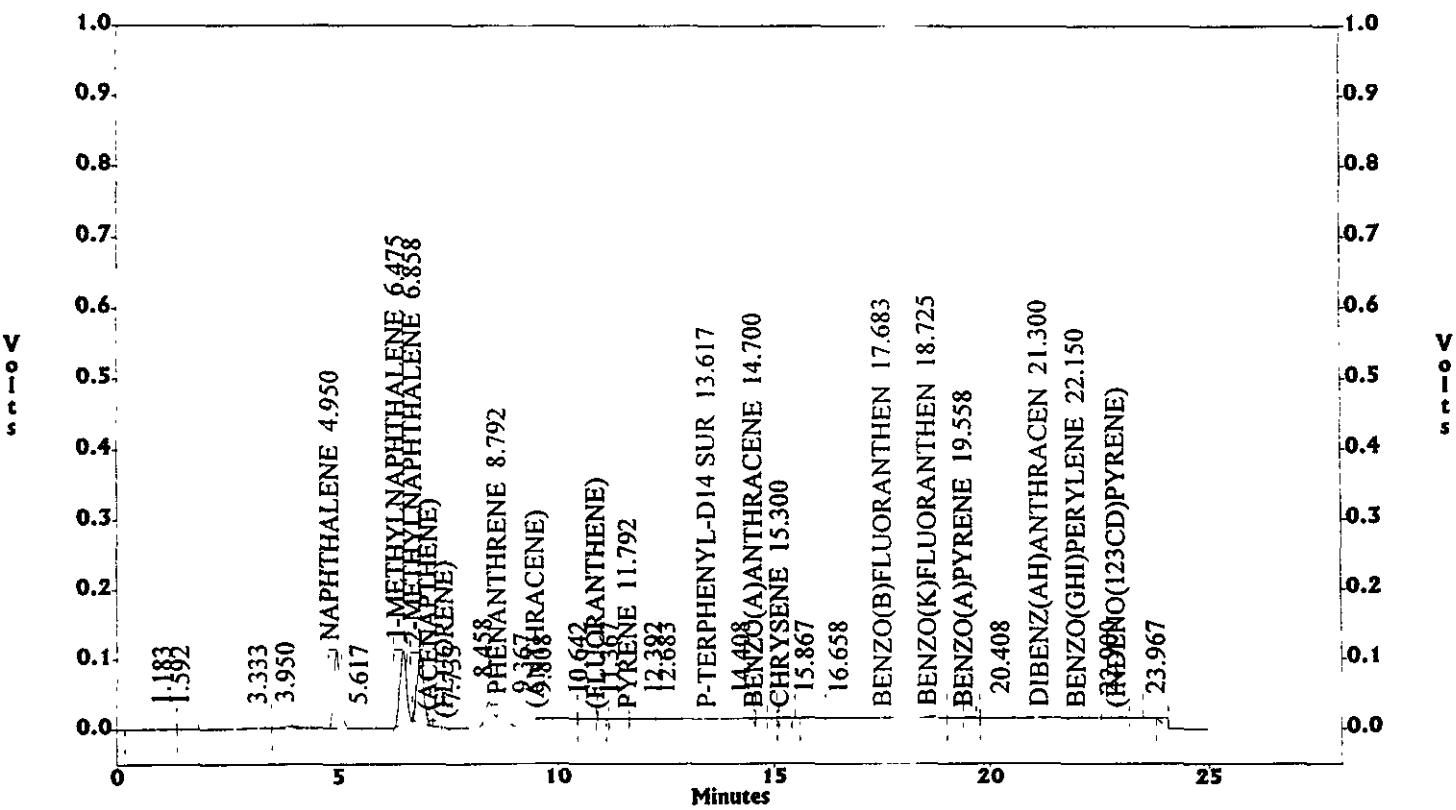
054

File : c:\ezchromb\chrom\0326lc3.037
Method : c:\ezchromb\methods\lc1\8310a.met
Sample ID : 38728x5(100ul+400ul
Acquired : Mar 27, 2000 11:27:21
Printed : Mar 27, 2000 14:23:16
User : System

c:\ezchromb\chrom\0326lc3.037 -- Channel A



c:\ezchromb\chrom\0326lc3.037 -- Channel B



HPLC 1

File : c:\ezchromb\chrom\0326lc3.037
Method : c:\ezchromb\methods\lc1\8310a.met
Sample ID : 38728x5(100ul+400ul
Acquired : Mar 27, 2000 11:27:21
Printed : Mar 27, 2000 14:23:17
User : System

Channel A Results

Peak Name	Time	Area	Conc.
NAPHTHALENE	4.84	7825	4.04
ACENAPHTYLENE	5.56	692	0.42
1-METHYLNAPHT	6.39	2988	3.03
2-METHYLNAPHT	6.76	2988	1.89
ACENAPTHENE	7.17	603	0.93
FLUORENE	7.61	550	0.00
PHENANTHRENE	8.68	614	0.00
ANTHRACENE	9.69	0	0.00
FLUORANTHENE	10.93	0	0.00
PYRENE	11.63	0	0.00
P-TERPHENYL-D	13.55	0	0.00
BENZO(A)ANTHR	14.61	0	0.00
CHRYSENE	15.18	0	0.00
BENZO(B)FLUOR	17.58	0	0.00
BENZO(K)FLOUR	18.65	0	0.00
BENZO(A)PYREN	19.45	0	0.00
DIBENZ(AH)ANT	21.17	0	0.00
BENZO(GHI)PER	22.03	0	0.00
INDENO(123CD)	22.94	0	0.00

Channel B Results

Name	Time	Area	Conc.
NAPHTHALENE	4.95	1115917	3.59
1-METHYLNAPHT	6.47	1077167	2.39
2-METHYLNAPHT	6.86	1010376	2.11
ACENAPTHENE	7.20	0	0.00
FLUORENE	7.57	0	0.00
PHENANTHRENE	8.79	264685	1.02
ANTHRACENE	9.66	0	0.00
FLUORANTHENE	11.05	0	0.00
PYRENE	11.79	4821	0.00
P-TERPHENYL-D	13.62	22308	0.09
BENZO(A)ANTHR	14.70	5932	0.00
CHRYSENE	15.30	8046	0.00
BENZO(B)FLUOR	17.68	5467	0.00
BENZO(K)FLUOR	18.73	16104	0.00
BENZO(A)PYREN	19.56	8196	0.00
DIBENZ(AH)ANT	21.30	4737	0.00
BENZO(GHI)PER	22.15	3441	0.00
INDENO(123CD)	23.06	0	0.00

SPECIALIZED ASSAYS, INC.
2960 Foster Creighton Dr.
P.O. Box 40566
Nashville, TN 37204-0566
Phone 1-615-726-0177

Sample Identification

AB89509

Matrix: Water
pH:
Units: ug/l
Dilution Factor: 1.
Analysis Method: SW8310
Delivery Group: 184949
Instrument:
Vol Extracted: 980. ml
Extract Vol: 1.00 ml

Lab Sample ID: 00-A38730
Date Sampled:: 3/20/00
Date Received: 3/23/00
Analysis Date: 3/26/00
Analysis Time: 22:03
Sample QC Group: 7429

Extraction Date: 3/24/00

FORM I

CAS NUMBER	ANALYTE	CONCENTRATION	FLAG
91-20-3	Naphthalene	1.02	U
83-32-9	Acenapthene	1.02	U
120-12-7	Anthracene	0.67	U
206-44-0	Fluoranthene	0.21	U
7782-41-4	Fluorene	0.21	U
129-00-0	Pyrene	0.28	U
56-55-3	Benzo(a)anthracene	0.13	U
50-32-8	Benzo(a)pyrene	0.1	U
205-99-2	Benzo(b)fluoranthene	0.18	U
207-08-9	Benzo(k)fluoranthene	0.17	U
218-01-9	Chrysene	0.15	U
53-70-3	Dibenzo(a,h)anthracene	0.31	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.44	U
208-96-8	Acenaphthylene	2.04	U
191-24-2	Benzo(g,h,i)perylene	0.78	U
85-01-8	Phenanthrene	0.65	U

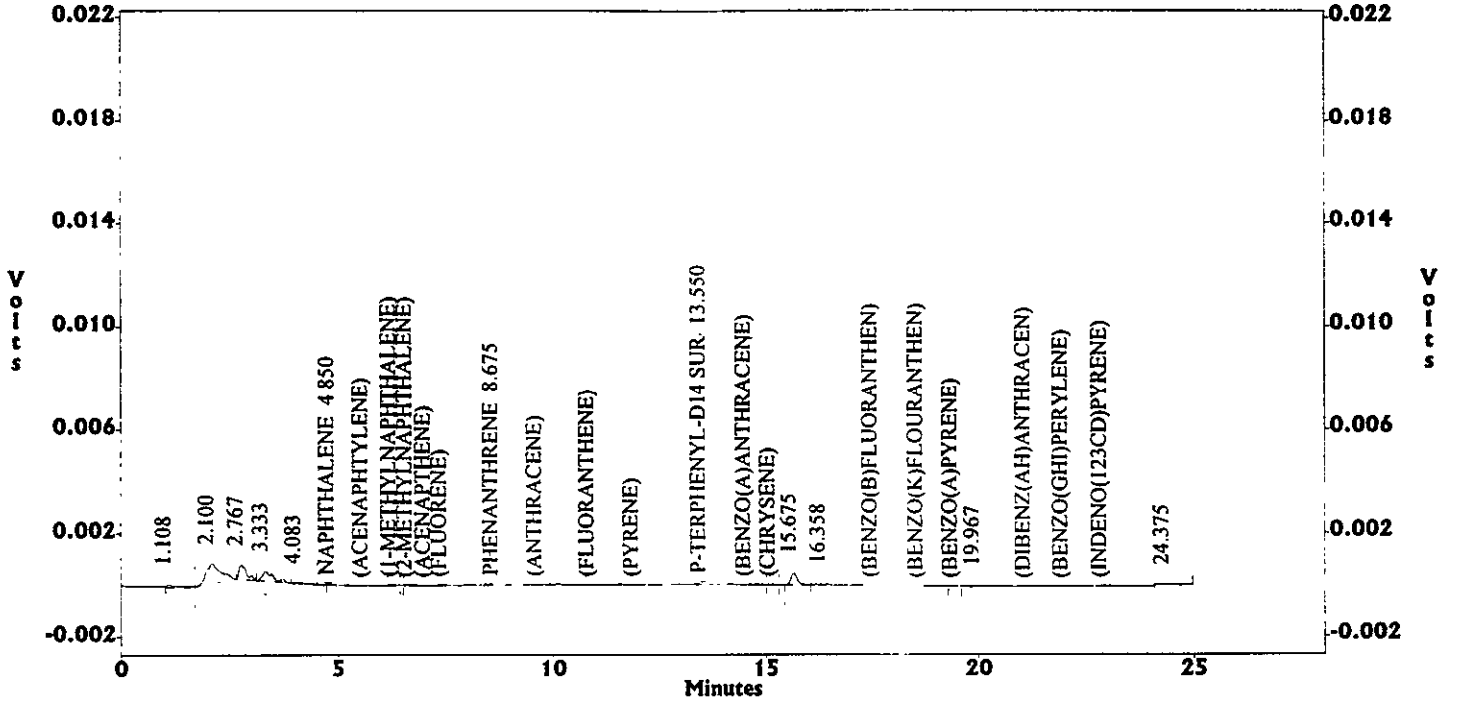
COPY 1

055

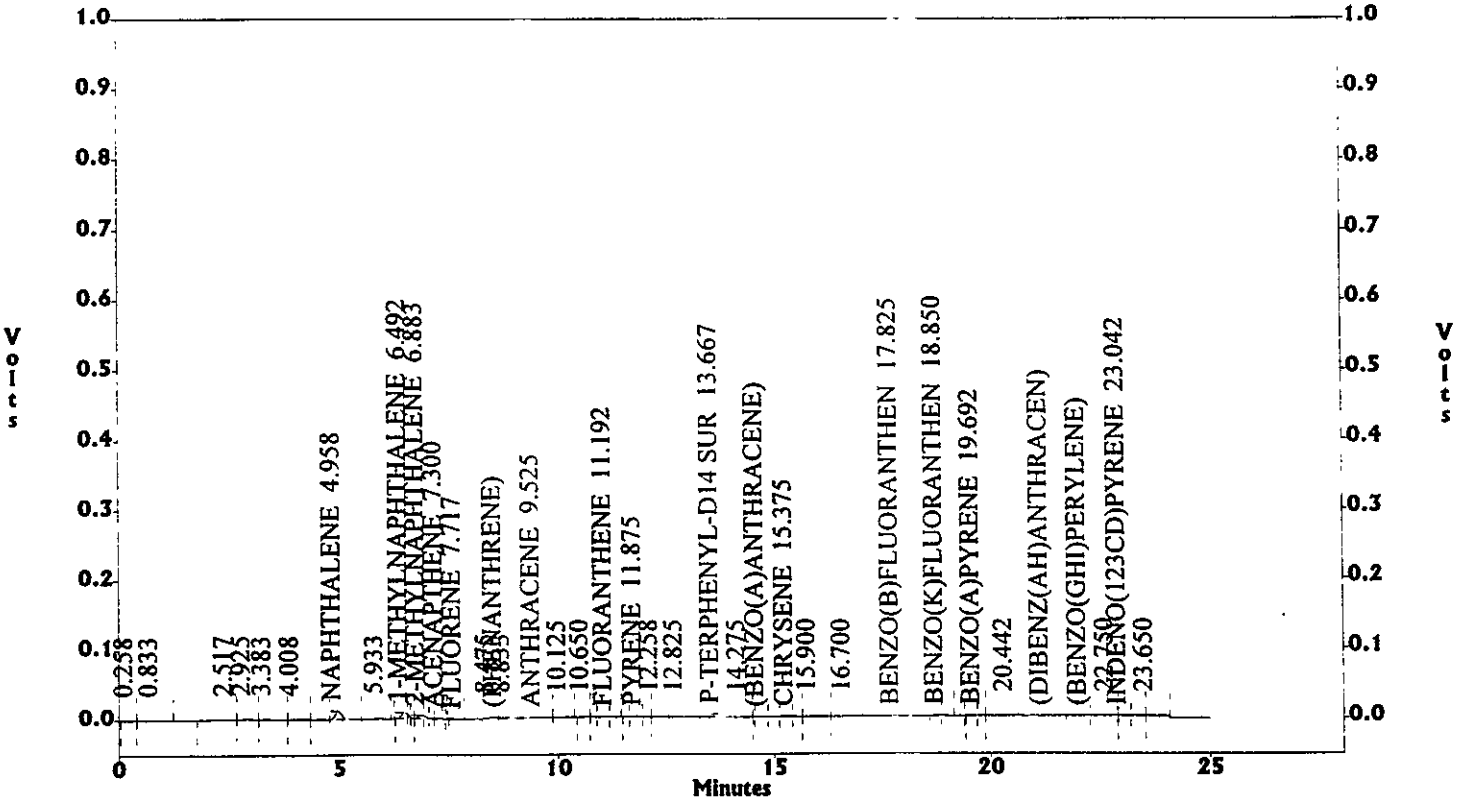
HPLC 1

File : c:\ezchromb\chrom\0326lc3.029
Method : c:\ezchromb\methods\lc1\8310a.met
Sample ID : 38729
Acquired : Mar 27, 2000 03:18:04
Printed : Mar 27, 2000 09:52:00
User : System

c:\ezchromb\chrom\0326lc3.029 -- Channel A



c:\ezchromb\chrom\0326lc3.029 -- Channel B



HPLC 1

File : c:\ezchromb\chrom\0326lc3.029
Method : c:\ezchromb\methods\lc1\8310a.met
Sample ID : 38729
Acquired : Mar 27, 2000 03:18:04
Printed : Mar 27, 2000 09:52:00
User : System

Channel A Results

Peak Name	Time	Area	Conc.
NAPHTHALENE	4.85	806	0.26
ACENAPHTYLENE	5.63	0	0.00
1-METHYLNAPHT	6.30	0	0.00
2-METHYLNAPHT	6.68	0	0.00
ACENAPTHENE	7.10	0	0.00
FLUORENE	7.47	0	0.00
PHENANTHRENE	8.68	637	0.00
ANTHRACENE	9.69	0	0.00
FLUORANTHENE	10.93	0	0.00
PYRENE	11.98	0	0.00
P-TERPHENYL-D	13.55	1053	0.21
BENZO(A)ANTHR	14.61	0	0.00
CHRYSENE	15.18	0	0.00
BENZO(B)FLUOR	17.58	0	0.00
BENZO(K)FLOUR	18.65	0	0.00
BENZO(A)PYREN	19.45	0	0.00
DIBENZ(AH)ANT	21.17	0	0.00
BENZO(GHI)PER	22.03	0	0.00
INDENO(123CD)	22.94	0	0.00

Channel B Results

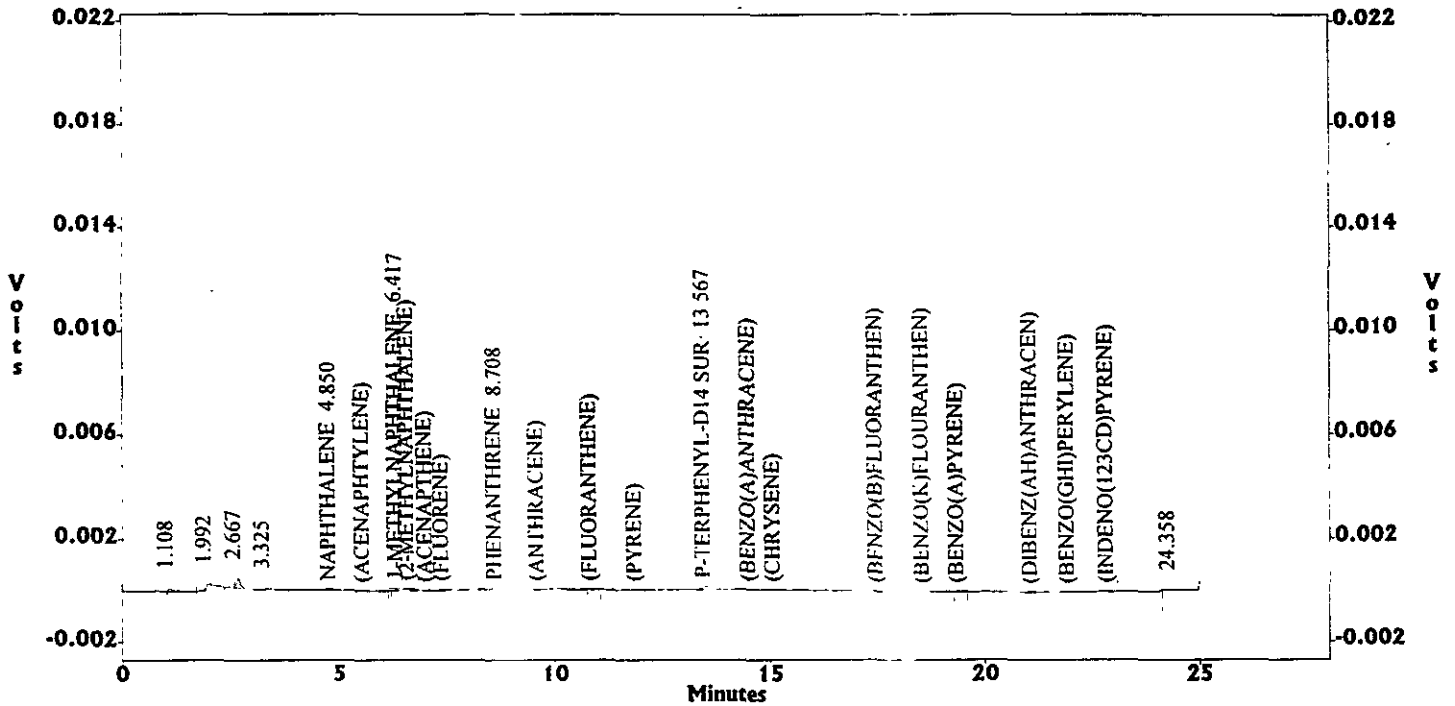
Name	Time	Area	Conc.
NAPHTHALENE	4.96	124192	0.32
1-METHYLNAPHT	6.49	97249	0.20
2-METHYLNAPHT	6.88	52261	0.03
ACENAPTHENE	7.30	6423	0.00
FLUORENE	7.72	2298	0.00
PHENANTHRENE	8.65	0	0.00
ANTHRACENE	9.52	19549	0.01
FLUORANTHENE	11.19	7378	0.01
PYRENE	11.88	10757	0.00
P-TERPHENYL-D	13.67	49345	0.21
BENZO(A)ANTHR	14.71	0	0.00
CHRYSENE	15.38	16571	0.00
BENZO(B)FLUOR	17.83	5318	0.00
BENZO(K)FLUOR	18.85	8565	0.00
BENZO(A)PYREN	19.69	5023	0.00
DIBENZ(AH)ANT	21.27	0	0.00
BENZO(GHI)PER	22.13	0	0.00
INDENO(123CD)	23.04	2434	0.00

056

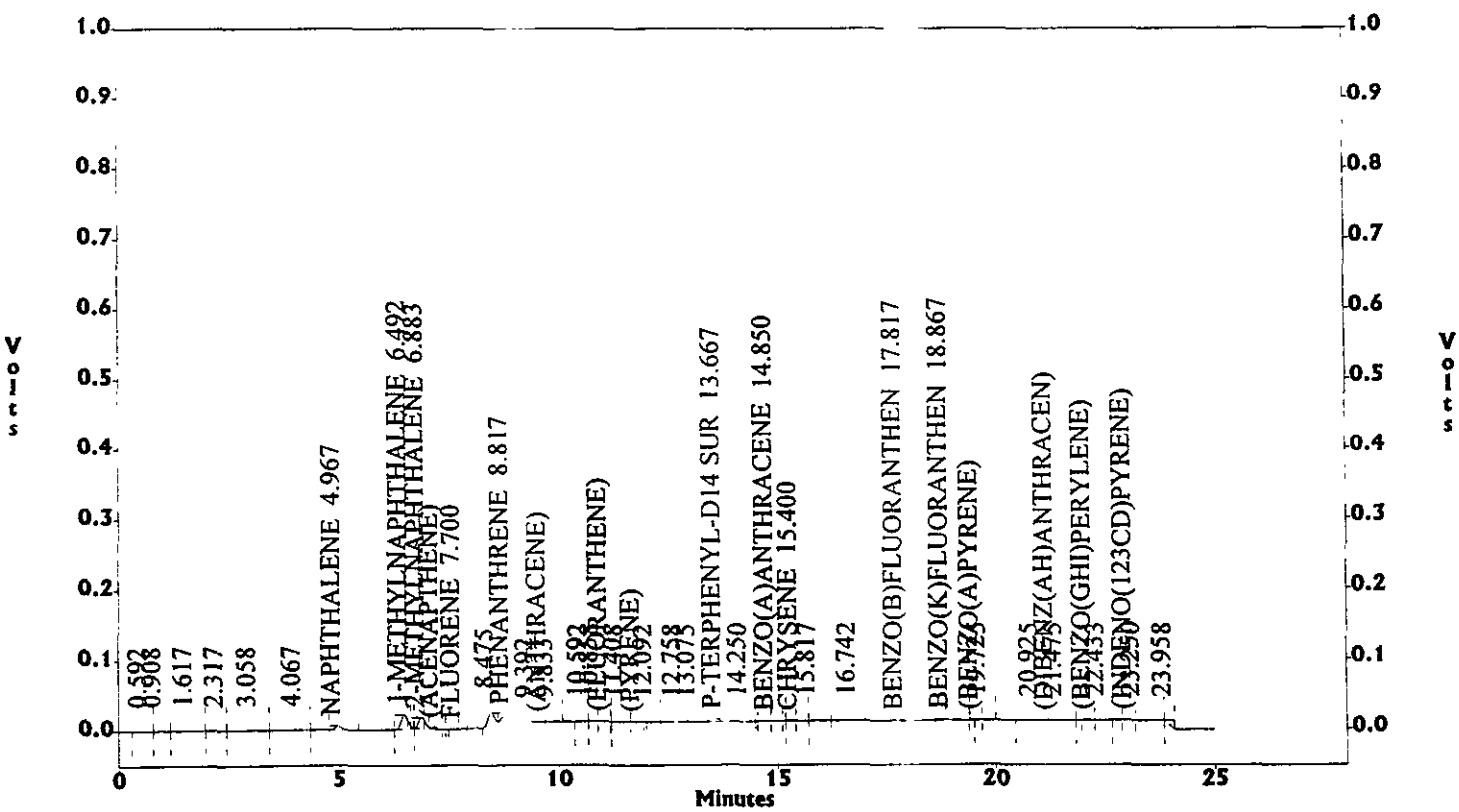
HPLC 1

File : c:\ezchromb\chrom\0326lc3.030
Method : c:\ezchromb\methods\lcl\8310a.met
Sample ID : 38730
Acquired : Mar 27, 2000 03:44:17
Printed : Mar 27, 2000 09:52:01
User : System

c:\ezchromb\chrom\0326lc3.030 -- Channel A



c:\ezchromb\chrom\0326lc3.030 -- Channel B



HPLC 1

File : c:\ezchromb\chrom\0326lc3.030
Method : c:\ezchromb\methods\lc1\8310a.met
Sample ID : 38730
Acquired : Mar 27, 2000 03:44:17
Printed : Mar 27, 2000 09:52:02
User : System

Channel A Results

Peak Name	Time	Area	Conc.
NAPHTHALENE	4.85	1263	0.51
ACENAPHTYLENE	5.63	0	0.00
1-METHYLNAPHT	6.42	2372	2.41
2-METHYLNAPHT	6.68	0	0.00
ACENAPTHENE	7.10	0	0.00
FLUORENE	7.47	0	0.00
PHENANTHRENE	8.71	1956	0.00
ANTHRACENE	9.69	0	0.00
FLUORANTHENE	10.93	0	0.00
PYRENE	11.98	0	0.00
P-TERPHENYL-D	13.57	957	0.19
BENZO(A)ANTHR	14.61	0	0.00
CHRYSENE	15.18	0	0.00
BENZO(B)FLUOR	17.58	0	0.00
BENZO(K)FLOUR	18.65	0	0.00
BENZO(A)PYREN	19.45	0	0.00
DIBENZ(AH)ANT	21.17	0	0.00
BENZO(GHI)PER	22.03	0	0.00
INDENO(123CD)	22.94	0	0.00

Channel B Results

Name	Time	Area	Conc.
NAPHTHALENE	4.97	66373	0.13
1-METHYLNAPHT	6.49	210715	0.45
2-METHYLNAPHT	6.88	165795	0.27
ACENAPTHENE	7.20	0	0.00
FLUORENE	7.70	6283	0.00
PHENANTHRENE	8.82	167399	0.62
ANTHRACENE	9.66	0	0.00
FLUORANTHENE	11.05	0	0.00
PYRENE	11.81	0	0.00
P-TERPHENYL-D	13.67	36644	0.16
BENZO(A)ANTHR	14.85	11777	0.00
CHRYSENE	15.40	9518	0.00
BENZO(B)FLUOR	17.82	6030	0.00
BENZO(K)FLUOR	18.87	21666	0.00
BENZO(A)PYREN	19.55	0	0.00
DIBENZ(AH)ANT	21.27	0	0.00
BENZO(GHI)PER	22.13	0	0.00
INDENO(123CD)	23.06	0	0.00

SPECIALIZED ASSAYS, INC.
2960 Foster Creighton Dr.
P.O. Box 40566
Nashville, TN 37204-0566
Phone 1-615-726-0177

Sample Identification

AB89510

Matrix: Water
pH:
Units: ug/l
Dilution Factor: 1.
Analysis Method: SW831C
Delivery Group: 184949
Instrument:
Vol Extracted: 980. ml
Extract Vol: 1.00 ml

Lab Sample ID: 00-A38731
Date Sampled:: 3/20/00
Date Received: 3/23/00
Analysis Date: 3/26/00
Analysis Time: 22:03
Sample QC Group: 7429

Extraction Date: 3/24/00

FORM I

CAS NUMBER	ANALYTE	CONCENTRATION	FLAG
91-20-3	Naphthalene	1.02	U
83-32-9	Acenapthene	1.02	U
120-12-7	Anthracene	0.67	U
206-44-0	Fluoranthene	0.21	U
7782-41-4	Fluorene	0.21	U
129-00-0	Pyrene	0.28	U
56-55-3	Benzo(a)anthracene	0.13	U
50-32-8	Benzo(a)pyrene	0.1	U
205-99-2	Benzo(b)fluoranthene	0.18	U
207-08-9	Benzo(k)fluoranthene	0.17	U
218-01-9	Chrysene	0.15	U
53-70-3	Dibenzo(a,h)anthracene	0.31	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.44	U
208-96-8	Acenaphthylene	2.04	U
191-24-2	Benzo(g,h,i)perylene	0.78	U
85-01-8	Phenanthrene	0.65	U

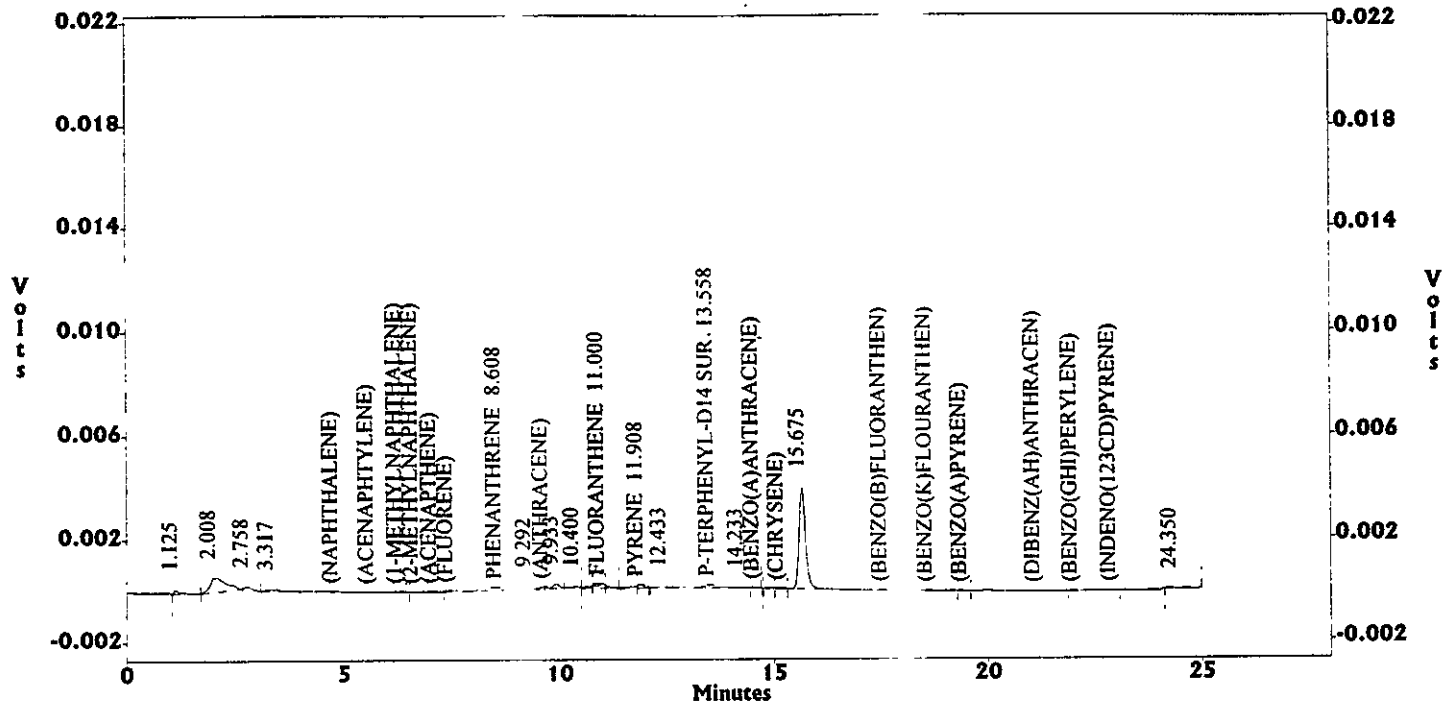
COPY 1

057

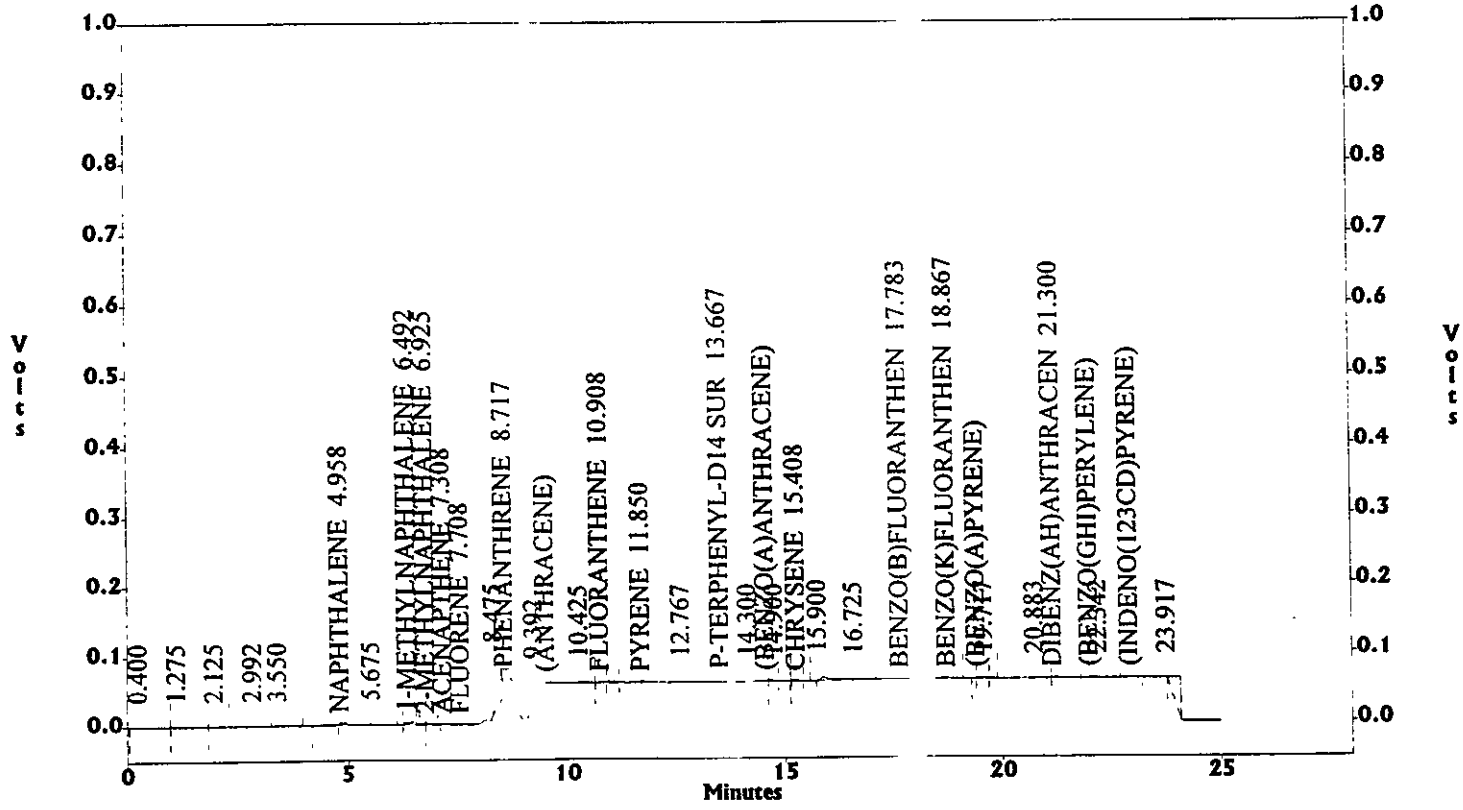
HPLC 1

File : c:\ezchromb\chrom\0326lc3.031
Method : c:\ezchromb\methods\lc1\8310a.met
Sample ID : 38731
Acquired : Mar 27, 2000 04:10:30
Printed : Mar 27, 2000 09:52:03
User : System

c:\ezchromb\chrom\0326lc3.031 -- Channel A



c:\ezchromb\chrom\0326lc3.031 -- Channel B



HPLC 1

File : c:\ezchromb\chrom\0326lc3.031
Method : c:\ezchromb\methods\lc1\8310a.met
Sample ID : 38731
Acquired : Mar 27, 2000 04:10:30
Printed : Mar 27, 2000 09:52:03
User : System

Channel A Results

Peak Name	Time	Area	Conc.	
NAPHTHALENE	4.81	0	0.00	
ACENAPHTYLENE	5.63	0	0.00	
1-METHYLNAPHT	6.30	0	0.00	
2-METHYLNAPHT	6.68	0	0.00	
ACENAPTHENE	7.10	0	0.00	
FLUORENE	7.47	0	0.00	
PHENANTHRENE	8.61	4331	0.07	
ANTHRACENE	9.69	0	0.00	
FLUORANTHENE	11.00	3150	0.50	not a good peak
PYRENE	11.91	1940	0.39	not a good peak
P-TERPHENYL-D	13.56	1912	0.38	
BENZO(A)ANTHR	14.61	0	0.00	
CHRYSENE	15.18	0	0.00	
BENZO(B)FLUOR	17.58	0	0.00	
BENZO(K)FLOUR	18.65	0	0.00	
BENZO(A)PYREN	19.45	0	0.00	
DIBENZ(AH)ANT	21.17	0	0.00	
BENZO(GHI)PER	22.03	0	0.00	
INDENO(123CD)	22.94	0	0.00	

Channel B Results

Name	Time	Area	Conc.	
NAPHTHALENE	4.96	34990	0.02	
1-METHYLNAPHT	6.49	38380	0.06	
2-METHYLNAPHT	6.93	10794	0.00	
ACENAPTHENE	7.31	3673	0.00	
FLUORENE	7.71	4281	0.00	
PHENANTHRENE	8.72	377010	1.49	NC
ANTHRACENE	9.66	0	0.00	
FLUORANTHENE	10.91	23773	0.11	
PYRENE	11.85	3850	0.00	
P-TERPHENYL-D	13.67	41565	0.18	
BENZO(A)ANTHR	14.71	0	0.00	
CHRYSENE	15.41	5123	0.00	
BENZO(B)FLUOR	17.78	6686	0.00	
BENZO(K)FLUOR	18.87	6067	0.00	
BENZO(A)PYREN	19.55	0	0.00	
DIBENZ(AH)ANT	21.30	2844	0.00	
BENZO(GHI)PER	22.13	0	0.00	
INDENO(123CD)	23.06	0	0.00	

SPECIALIZED ASSAYS, INC.
2960 Foster Creighton Dr.
P.O. Box 40566
Nashville, TN 37204-0566
Phone 1-615-726-0177

Sample Identification

AB89511

Matrix: Water
pH:
Units: ug/l
Dilution Factor: 1.
Analysis Method: SW8310
Delivery Group: 184949
Instrument:
Vol Extracted: 970. ml
Extract Vol: 1.00 ml

Lab Sample ID: 00-A38732
Date Sampled:: 3/20/00
Date Received: 3/23/00
Analysis Date: 3/26/00
Analysis Time: 22:03
Sample QC Group: 7429

Extraction Date: 3/24/00

FORM I

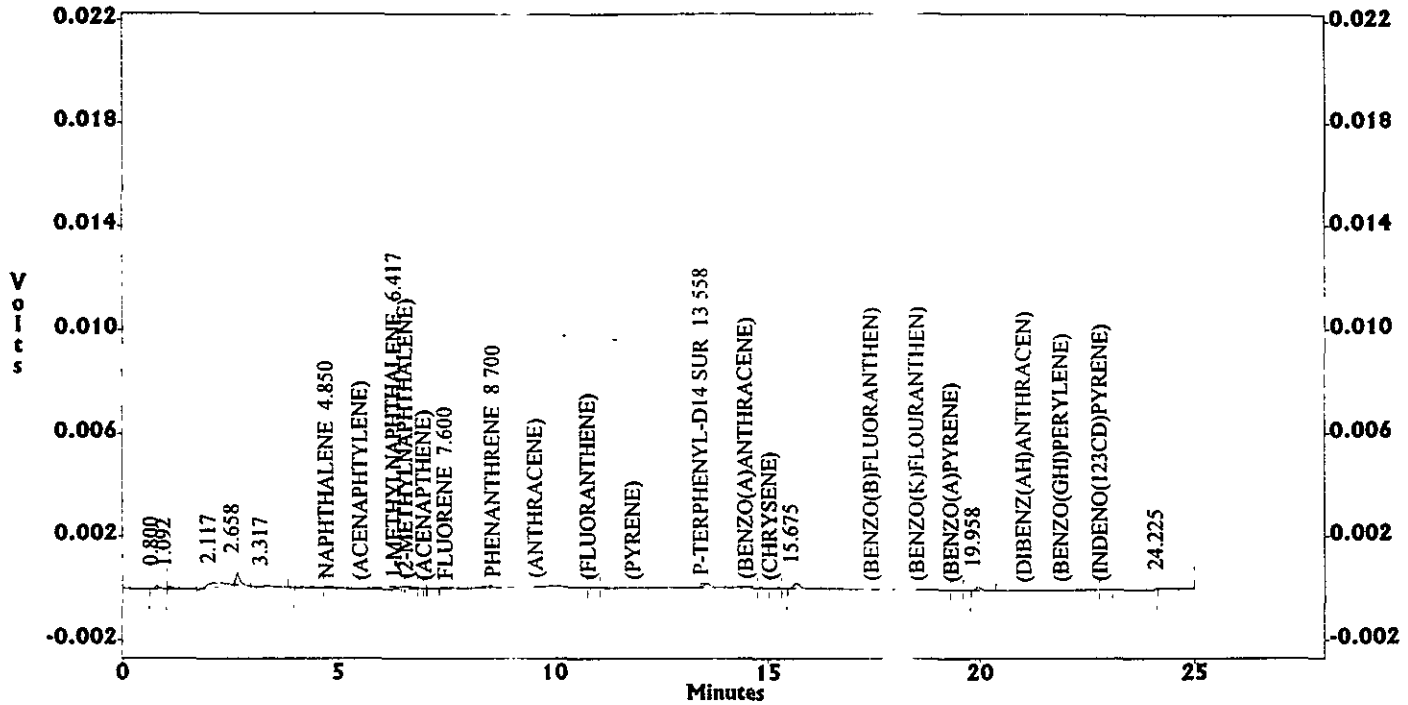
CAS NUMBER	ANALYTE	CONCENTRATION	FLAG
91-20-3	Naphthalene	1.03	U
83-32-9	Acenapthene	1.03	U
120-12-7	Anthracene	0.68	U
206-44-0	Fluoranthene	0.22	U
7782-41-4	Fluorene	0.22	U
129-00-0	Pyrene	0.28	U
56-55-3	Benzo(a)anthracene	0.13	U
50-32-8	Benzo(a)pyrene	0.1	U
205-99-2	Benzo(b)fluoranthene	0.19	U
207-08-9	Benzo(k)fluoranthene	0.18	U
218-01-9	Chrysene	0.15	U
53-70-3	Dibenzo(a,h)anthracene	0.31	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.44	U
208-96-8	Acenaphthylene	2.06	U
191-24-2	Benzo(g,h,i)perylene	0.78	U
85-01-8	Phenanthrene	0.66	U

COPY 1

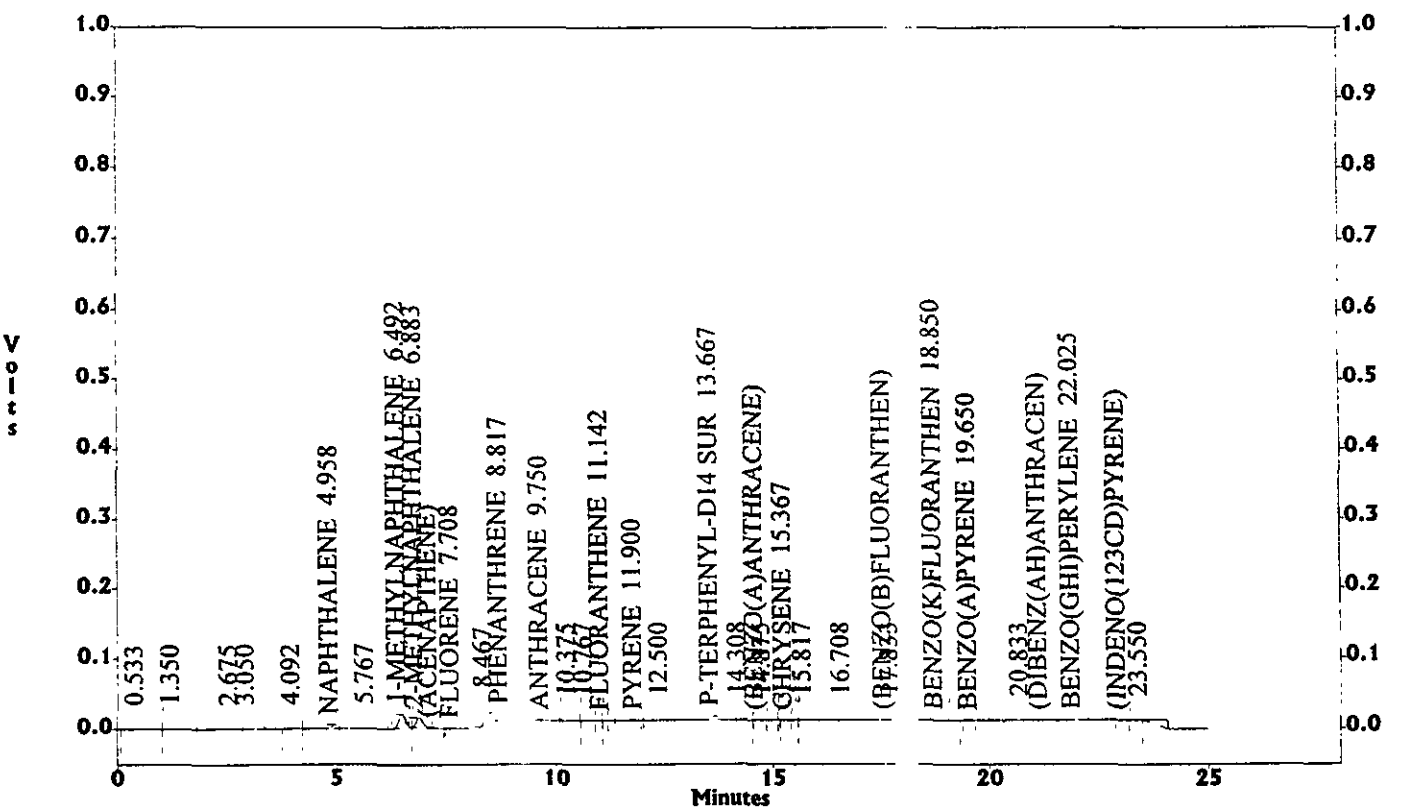
HPLC 1

File : c:\ezchromb\chrom\0326lc3.032
Method : c:\ezchromb\methods\lc1\8310a.met
Sample ID : 38732
Acquired : Mar 27, 2000 04:36:44
Printed : Mar 27, 2000 09:52:04
User : System

c:\ezchromb\chrom\0326lc3.032 -- Channel A



c:\ezchromb\chrom\0326lc3.032 -- Channel B



HPLC 1

File : c:\ezchromb\chrom\0326lc3.032
Method : c:\ezchromb\methods\lc1\8310a.met
Sample ID : 38732
Acquired : Mar 27, 2000 04:36:44
Printed : Mar 27, 2000 09:52:05
User : System

Channel A Results

Peak Name	Time	Area	Conc.
NAPHTHALENE	4.85	945	0.34
ACENAPHTYLENE	5.63	0	0.00
1-METHYLNAPHT	6.42	2436	2.47
2-METHYLNAPHT	6.68	0	0.00
ACENAPTHENE	7.10	0	0.00
FLUORENE	7.60	372	0.00
PHENANTHRENE	8.70	1604	0.00
ANTHRACENE	9.69	0	0.00
FLUORANTHENE	10.93	0	0.00
PYRENE	11.98	0	0.00
P-TERPHENYL-D	13.56	1378	0.27
BENZO(A)ANTHR	14.61	0	0.00
CHRYSENE	15.18	0	0.00
BENZO(B)FLUOR	17.58	0	0.00
BENZO(K)FLOUR	18.65	0	0.00
BENZO(A)PYREN	19.45	0	0.00
DIBENZ(AH)ANT	21.17	0	0.00
BENZO(GHI)PER	22.03	0	0.00
INDENO(123CD)	22.94	0	0.00

Channel B Results

Name	Time	Area	Conc.
NAPHTHALENE	4.96	58435	0.10
1-METHYLNAPHT	6.49	210868	0.45
2-METHYLNAPHT	6.88	158669	0.26
ACENAPTHENE	7.20	0	0.00
FLUORENE	7.71	5795	0.00
PHENANTHRENE	8.82	163544	0.60
ANTHRACENE	9.75	181629	1.78
FLUORANTHENE	11.14	2478	0.00
PYRENE	11.90	8101	0.00
P-TERPHENYL-D	13.67	59505	0.26
BENZO(A)ANTHR	14.71	0	0.00
CHRYSENE	15.37	3031	0.00
BENZO(B)FLUOR	17.67	0	0.00
BENZO(K)FLUOR	18.85	5784	0.00
BENZO(A)PYREN	19.65	4901	0.00
DIBENZ(AH)ANT	21.27	0	0.00
BENZO(GHI)PER	22.02	2078	0.00
INDENO(123CD)	23.06	0	0.00

6C

8310 PAH INITIAL CALIBRATION
UV

Lab Name : Specialized Assays

Contract : _____

SDG # 184949

Site : _____

Insturment ID: HPLC 3

Location : _____

Calibration Date : 01/25/00

Group : _____

Lab File:

UV CHANNEL

RRF1 =	0125lc3.018	0125lc3.031
RRF2 =	0125lc3.025	0125lc3.032
RRF3 =	0125lc3.026	0125lc3.033
RRF4=	0125lc3.027	0125lc3.034
RRF5=	0125lc3.028	0125lc3.035
RRF6=	0125lc3.029	0125lc3.036

COMPOUND	RRF1 .5/.05/.025	RRF2 1/.1/.05	RRF3 2/.2/.1	RRF4 5/ 5/.25	RRF5 10/1 0/ 5	RRF6 20/2/1	RRF7		$\overline{RRF}$	CORR. COEFF.
Napthalene	2248	2127	1828	1981	1954	1858			2.03E+03	7.9
Acenapthylene	1580	1514	1271	1372	1338	1319			1.42E+03	8.6
1-Methyl-naphthalene	984	909	918	1054	973	979			9.68E+02	5.4
2-Methyl-naphthalene	1578	1510	2323	1621	1490	1495			1.70E+03	19.0
Acenapthene	730	667	577	624	616	610			6.43E+02	8.4
Flourene	9652	9295	7948	8548	8577	8246			8.80E+03	7.3
Phenanthrene	29830	29654	25511	27302	27048	26358			2.79E+04	6.3
Anthracene	71580	70878	60893	64733	63377	60418			6.63E+04	7.3
Flouranthene	6860	7700	6640	6326	6377	6122			6.78E+03	8.3
Pyrene	6820	5460	3935	4970	4997	4895			5.24E+03	18.1
Benzo(a)anthracene	18920	16390	13350	13238	13091	12813			1.50E+04	16.5
Chrysene	26900	22310	18255	18216	17956	17577			2.07E+04	17.9
Benzo(b)flouranthene	22820	18350	15055	14978	14828	14488			1.72E+04	19.1
Benzo(k)flouranthene	18040	17680	13800	12796	12538	12595			1.50E+04	17.3
Benzo(a)pyrene	19980	16940	13265	13106	13043	12679			1.53E+04	19.5
Dibenz(ah)anthracene	3380	2480	2895	3092	3075	2954			2.98E+03	9.9
Benzo(ghi)Perylene	6880	5260	5350	5550	5374	5182			5.68E+03	11.3
Indeno(123cd)pyrene	21420	20860	16900	16188	16080	16239			1.83E+04	13.6

AVERAGE 12.47

6C

8310 PAH INITIAL CALIBRATION
UV

Lab Name : Specialized Assays

Contract : _____

SDG # 184949

Site : _____

Insturment ID: HPLC 3

Location : _____

Calibration Date : 01/25/00

Group : _____

FLOURECENSE CHANNEL

Lab File:

RRF1 =	0125lc3.018	0125lc3.031
RRF2 =	0125lc3.025	0125lc3.032
RRF3 =	0125lc3.026	0125lc3.033
RRF4=	0125lc3.027	0125lc3.034
RRF5=	0125lc3.028	0125lc3.035
RRF6=	0125lc3.029	0125lc3.036

COMPOUND	RRF1 5/.05/.025	RRF2 1/ 1/ 05	RRF3 2/.2/.1	RRF4 5/.5/.25	RRF5 10/1.0/ 5	RRF6 20/2/1	RRF7		RRF	CORR. COEFF.
Napthalene	397380	348665	292367	320443	313631	302297			3.34E+05	11.5
1-Methyl-naphthalene	469938	421954	418152	479960	444390	447120			4.47E+05	5.6
2-Methyl-naphthalene	483980	445461	721408	494308	458685	460368			5.21E+05	20.1
Acenapthene	1294734	1169592	1007195	1083448	1060808	720641			1.12E+06	17.2
Flourene	393304	372319	321618	346882	340456	335435			3.55E+05	7.4
Phenanthrene	298086	273896	234348	247734	245214	238795			2.60E+05	9.5
Anthracene	121924	110756	95449	97078	95327	92440			1.04E+05	11.2
Flouranthene	233780	265500	194925	184254	181322	172727			2.12E+05	17.2
Pyrene	1028200	827730	720310	731300	718613	698094			8.05E+05	15.7
Benzo(a)anthracene	2887100	2430980	2020215	2055798	2037184	1987997			2.29E+06	15.7
Chrysene	5128760	4435840	3620045	3669964	3634539	3533848			4.10E+06	15.7
Benzo(b)flouranthene	1495560	1316490	1087175	1108358	1096528	1066105			1.22E+06	14.2
Benzo(k)flouranthene	1.3E+07	9954480	8307070	9872720	7804010	7592889			9.75E+06	20.0
Benzo(a)pyrene	3594100	3076710	2549485	2574636	2564274	2504248			2.87E+06	15.3
Dibenz(ah)anthracene	1399720	1311610	1038215	1020610	1008429	984455			1.16E+06	15.6
Benzo(ghi)Perylene	1763880	1377650	1133820	1128894	1130923	1051546			1.31E+06	20.6
Indeno(123cd)pyrene	313740	354440	285670	255262	237549	273049			2.89E+05	14.6

AVERAGE 14.12

7C

8310 PAH CONTINUING CALIBRATION CHECK

Lab Name:	Specialized Assays	Contract:	
SDG #	184949	Location:	
Instrument ID:	HPLC 3	Calibration Date:	1/25/00
Lab File ID:	0326lc3.012	Cont. Calib. Date:	3/26/00

UV CHANNEL

COMPOUND	known	actual		%D	MAX %D
Napthalene	1.00	0.95		5.0	15.0
1-Methyl-naphthalene	1.00				
2-Methyl-naphthalene	1.00				
Acenapthylene	1.00	0.93		7.0	15.0
Acenapthene	1.00	1.01		1.0	15.0
Flourene	1.00	0.96		4.0	15.0
Phenanthrene	1.00	0.97		3.0	15.0
Anthracene	1.00	0.92		8.0	15.0
Flouranthene	1.00	1.03		3.0	15.0
Pyrene	1.00	1.03		3.0	15.0
Benzo(a)anthracene	1.00	1.04		4.0	15.0
Chrysene	1.00	1.04		4.0	15.0
Benzo(b)flouranthene	1.00	1.03		3.0	15.0
Benzo(k)flouranthene	1.00	1.05		5.0	15.0
Benzo(a)pyrene	1.00	1.03		3.0	15.0
Dibenz(ah)anthracene	1.00	1.03		3.0	15.0
Benzo(ghi)Perylene	1.00	1.02		2.0	15.0
Indeno(123cd)pyrene	1.00	1.16		16.0	15.0

AVERAGE 4.63

7C

8310 PAH CONTINUING CALIBRATION CHECK

Lab Name:	Specialized Assays	Contract:	
SDG #	184949	Location:	
Instrument ID:	HPLC 3	Calibration Date:	1/25/00
Lab File ID:	0326lc3.012	Cont. Calib. Date:	3/26/00

FLOURECENSE CHANNEL

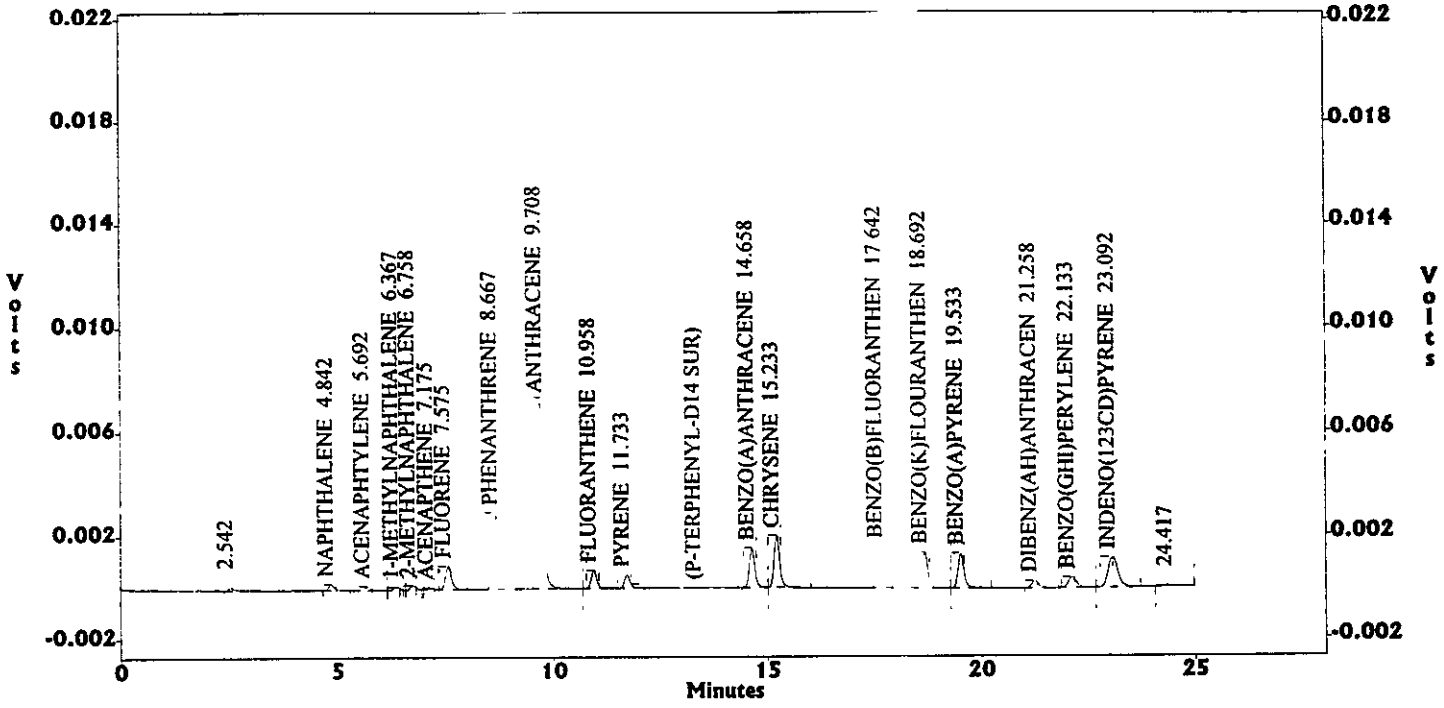
COMPOUND	known	actual		%D	MAX %D
Napthalene	1.00	0.93		7.0	15.0
1-Methyl-naphthalene	1.00				
2-Methyl-naphthalene	1.00				
Acenapthylene					
Acenapthene	1.00	0.89		11.0	15.0
Flourene	1.00	0.97		3.0	15.0
Phenanthrene	1.00	0.95		5.0	15.0
Anthracene	1.00	1.00		0.0	15.0
Flouranthene	1.00	0.94		6.0	15.0
Pyrene	1.00	0.96		4.0	15.0
Benzo(a)anthracene	1.00	0.98		2.0	15.0
Chrysene	1.00	0.96		4.0	15.0
Benzo(b)flouranthene	1.00	0.99		1.0	15.0
Benzo(k)flouranthene	1.00	0.98		2.0	15.0
Benzo(a)pyrene	1.00	0.97		3.0	15.0
Dibenz(ah)anthracene	1.00	0.97		3.0	15.0
Benzo(ghi)Perylene	1.00	1.00		0.0	15.0
Indeno(123cd)pyrene	1.00	0.93		7.0	15.0

AVERAGE 3.87

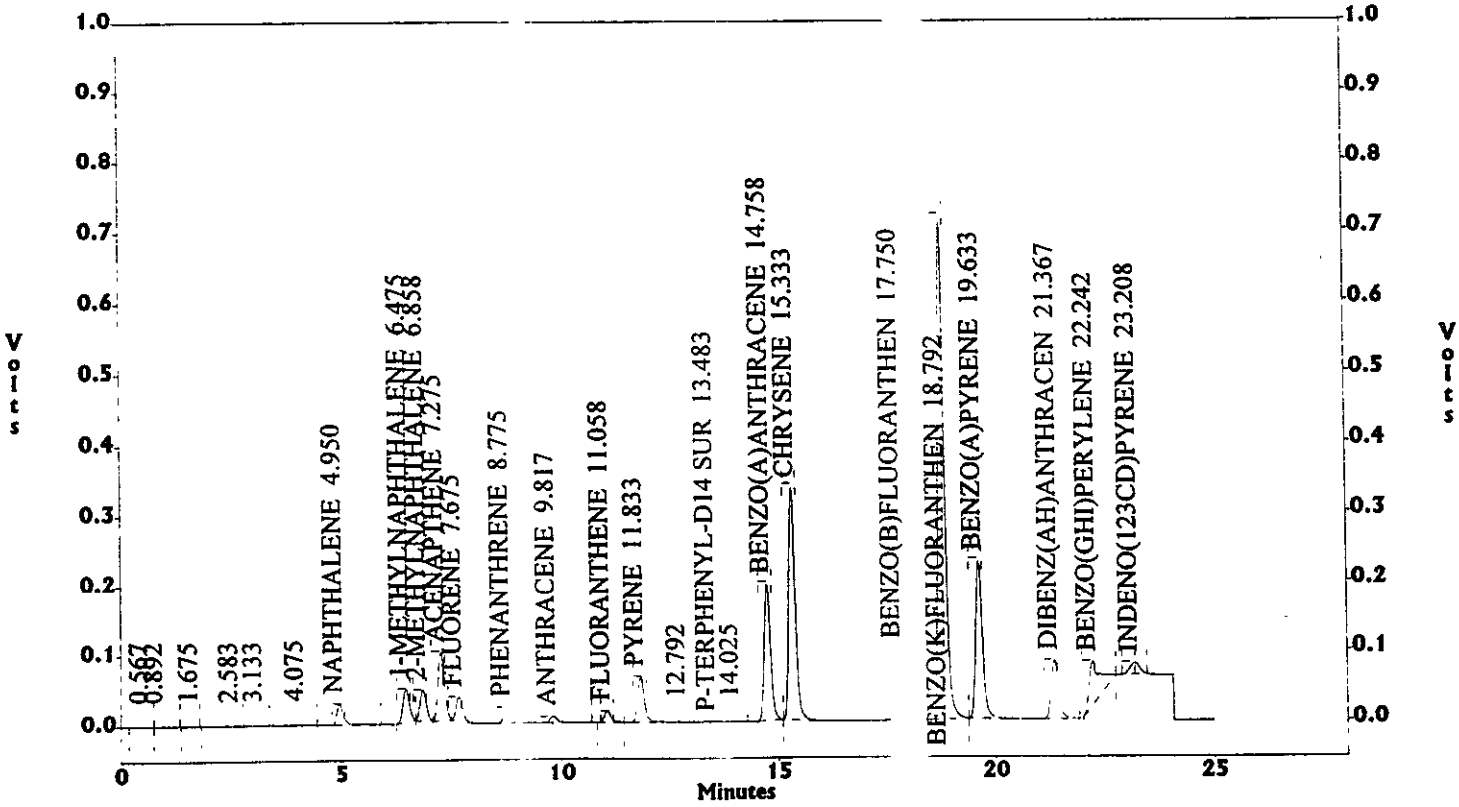
HPLC 1

File : c:\ezchromb\chrom\0326lc3.012
Method : c:\ezchromb\methods\lc1\8310doc.met
Sample ID : 1.0 pah
Acquired : Mar 26, 2000 19:52:06
Printed : Apr 14, 2000 16:38:40
User : System

c:\ezchromb\chrom\0326lc3.012 -- Channel A



c:\ezchromb\chrom\0326lc3.012 -- Channel B



HPLC 1

File : c:\ezchromb\chrom\0326lc3.012
Method : c:\ezchromb\methods\lc1\8310doc.met
Sample ID : 1.0 pah
Acquired : Mar 26, 2000 19:52:06
Printed : Apr 14, 2000 16:38:41
User : System

Channel A Results

Peak Name	Time	Area	Conc.
NAPHTHALENE	4.84	2077	0.95
ACENAPHTYLENE	5.69	1646	1.15
1-METHYLNAPHT	6.37	1157	1.18
2-METHYLNAPHT	6.76	1567	0.93
ACENAPTHENE	7.18	648	1.01
FLUORENE	7.57	8853	0.96
PHENANTHRENE	8.67	28018	0.97
ANTHRACENE	9.71	67213	0.92
FLUORANTHENE	10.96	6419	1.03
PYRENE	11.73	5044	1.03
P-TERPHENYL-D	13.40	0	0.00
BENZO(A)ANTHR	14.66	13520	1.04
CHRYSENE	15.23	18428	1.04
BENZO(B)FLUOR	17.64	15059	1.03
BENZO(K)FLOUR	18.69	13224	1.05
BENZO(A)PYREN	19.53	13313	1.03
DIBENZ(AH)ANT	21.26	3090	1.03
BENZO(GHI)PER	22.13	5391	1.02
INDENO(123CD)	23.09	18859	1.16

Channel B Results

Name	Time	Area	Conc.
NAPHTHALENE	4.95	310359	0.93
1-METHYLNAPHT	6.47	487286	1.07
2-METHYLNAPHT	6.86	433519	0.86
ACENAPTHENE	7.28	1004151	0.89
FLUORENE	7.68	345508	0.97
PHENANTHRENE	8.77	246117	0.95
ANTHRACENE	9.82	110498	1.00
FLUORANTHENE	11.06	166628	0.94
PYRENE	11.83	682439	0.96
P-TERPHENYL-D	13.48	7752	0.03
BENZO(A)ANTHR	14.76	1968994	0.98
CHRYSENE	15.33	3420490	0.96
BENZO(B)FLUOR	17.75	1067551	0.99
BENZO(K)FLUOR	18.79	7521771	0.98
BENZO(A)PYREN	19.63	2451384	0.97
DIBENZ(AH)ANT	21.37	967467	0.97
BENZO(GHI)PER	22.24	1083669	1.00
INDENO(123CD)	23.21	249795	0.93

7C

8310 PAH CONTINUING CALIBRATION CHECK

Lab Name:	Specialized Assays	Contract:	
SDG #	184949	Location:	
Instrument ID:	HPLC 3	Calibration Date:	1/25/00
Lab File ID:	0326lc3.023	Cont. Calib. Date:	3/26/00

UV CHANNEL

COMPOUND	known	actual		%D	MAX %D
Napthalene	1.00	0.97		3.0	15.0
1-Methyl-naphthalene	1.00				
2-Methyl-naphthalene	1.00				
Acenapthylene	1.00	0.93		7.0	15.0
Acenapthene	1.00	1.01		1.0	15.0
Flourene	1.00	0.94		6.0	15.0
Phenanthrene	1.00	0.96		4.0	15.0
Anthracene	1.00	0.91		9.0	15.0
Flouranthene	1.00	1.02		2.0	15.0
Pyrene	1.00	1.04		4.0	15.0
Benzo(a)anthracene	1.00	1.03		3.0	15.0
Chrysene	1.00	1.02		2.0	15.0
Benzo(b)flouranthene	1.00	1.01		1.0	15.0
Benzo(k)flouranthene	1.00	1.05		5.0	15.0
Benzo(a)pyrene	1.00	0.99		1.0	15.0
Dibenz(ah)anthracene	1.00	1.02		2.0	15.0
Benzo(ghi)Perylene	1.00	1.01		1.0	15.0
Indeno(123cd)pyrene	1.00	1.16		16.0	15.0

AVERAGE 4 19

7C

8310 PAH CONTINUING CALIBRATION CHECK

Lab Name:	Specialized Assays	Contract:	
SDG #	184949	Location:	
Instrument ID:	HPLC 3	Calibration Date:	1/25/00
Lab File ID:	0326lc3.023	Cont. Calib. Date:	3/26/00

FLOURECENSE CHANNEL

COMPOUND	known	actual		%D	MAX %D
Napthalene	1.00	0.95		5.0	15.0
1-Methyl-naphthalene	1.00				
2-Methyl-naphthalene	1.00				
Acenapthylene					
Acenapthene	1.00	0.88		12.0	15.0
Flourene	1.00	0.96		4.0	15.0
Phenanthrene	1.00	0.94		6.0	15.0
Anthracene	1.00	0.89		11.0	15.0
Flouranthene	1.00	0.96		4.0	15.0
Pyrene	1.00	0.93		7.0	15.0
Benzo(a)anthracene	1.00	0.97		3.0	15.0
Chrysene	1.00	0.95		5.0	15.0
Benzo(b)flouranthene	1.00	0.98		2.0	15.0
Benzo(k)flouranthene	1.00	0.97		3.0	15.0
Benzo(a)pyrene	1.00	0.96		4.0	15.0
Dibenz(ah)anthracene	1.00	0.96		4.0	15.0
Benzo(ghi)Perylene	1.00	0.92		8.0	15.0
Indeno(123cd)pyrene	1.00	0.88		12.0	15.0

AVERAGE 6.00

HPLC 1

File : c:\ezchromb\chrom\0326lc3.023
Method : c:\ezchromb\methods\lc1\8310doc.met
Sample ID : 1.0 pah
Acquired : Mar 27, 2000 00:40:40
Printed : Apr 14, 2000 16:38:55
User : System

Channel A Results

Peak Name	Time	Area	Conc.
NAPHTHALENE	4.85	2123	0.97
ACENAPHTYLENE	5.70	1546	1.07
1-METHYLNAPHT	6.38	1190	1.22
2-METHYLNAPHT	6.77	1560	0.93
ACENAPTHENE	7.18	652	1.01
FLUORENE	7.59	8679	0.94
PHENANTHRENE	8.68	27915	0.96
ANTHRACENE	9.73	66239	0.91
FLUORANTHENE	10.97	6361	1.02
PYRENE	11.74	5106	1.04
P-TERPHENYL-D	13.40	0	0.00
BENZO(A)ANTHR	14.66	13322	1.03
CHRYSENE	15.23	18170	1.02
BENZO(B)FLUOR	17.64	14834	1.01
BENZO(K)FLOUR	18.68	13125	1.05
BENZO(A)PYREN	19.52	12738	0.99
DIBENZ(AH)ANT	21.25	3036	1.02
BENZO(GHI)PER	22.13	5302	1.01
INDENO(123CD)	23.08	18920	1.16

Channel B Results

Name	Time	Area	Conc.
NAPHTHALENE	4.96	315396	0.95
1-METHYLNAPHT	6.49	482644	1.06
2-METHYLNAPHT	6.88	429104	0.85
ACENAPTHENE	7.29	998261	0.88
FLUORENE	7.69	343981	0.96
PHENANTHRENE	8.78	244430	0.94
ANTHRACENE	9.82	100322	0.89
FLUORANTHENE	11.07	170036	0.96
PYRENE	11.85	660650	0.93
P-TERPHENYL-D	13.52	2493	0.00
BENZO(A)ANTHR	14.77	1951223	0.97
CHRYSENE	15.33	3396965	0.95
BENZO(B)FLUOR	17.74	1056806	0.98
BENZO(K)FLUOR	18.79	7443201	0.97
BENZO(A)PYREN	19.63	2426141	0.96
DIBENZ(AH)ANT	21.36	959221	0.96
BENZO(GHI)PER	22.23	988968	0.92
INDENO(123CD)	23.20	235673	0.88

7C

8310 PAH CONTINUING CALIBRATION CHECK

Lab Name:	Specialized Assays	Contract:	
SDG #	184949	Location:	
Instrument ID:	HPLC 3	Calibration Date:	1/25/00
Lab File ID:	0326lc3.034	Cont. Calib. Date:	3/27/00

UV CHANNEL

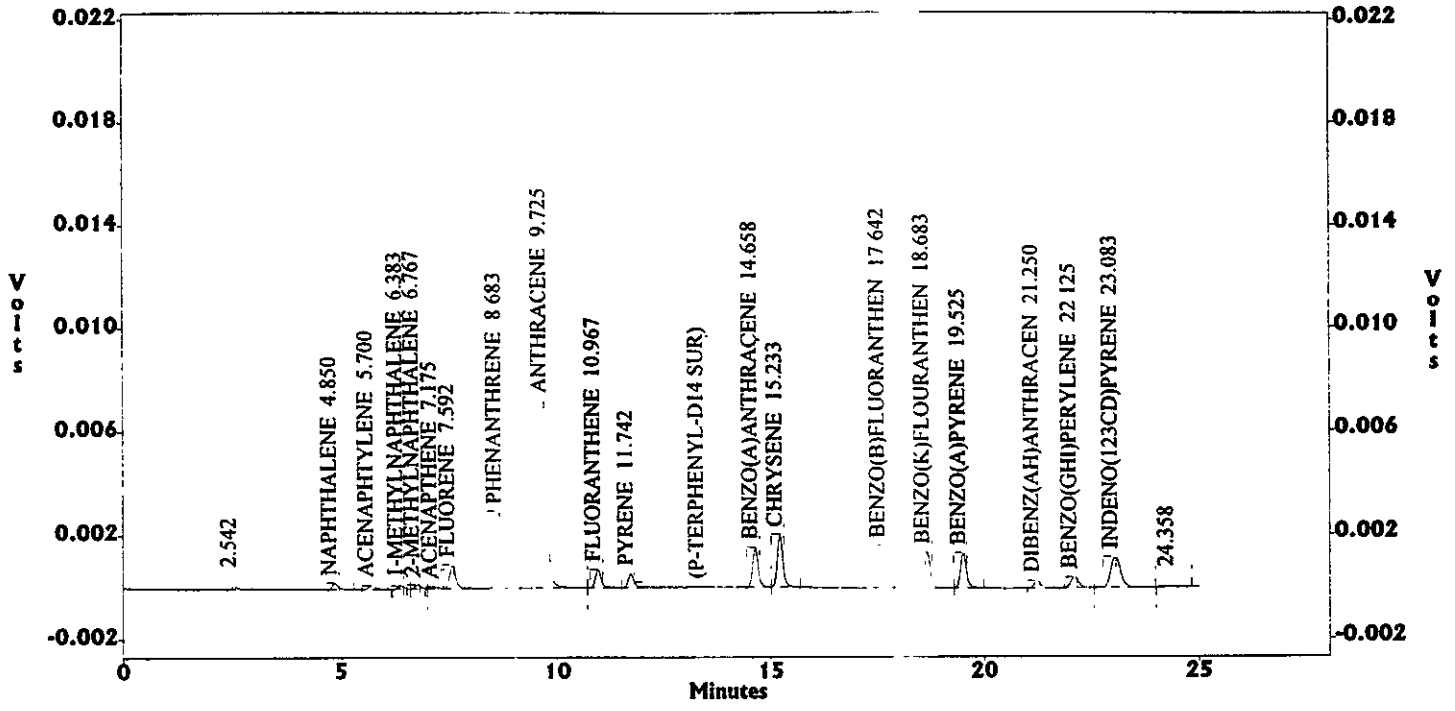
COMPOUND	known	actual		%D	MAX %D
Napthalene	1.00	0.91		9.0	15.0
1-Methyl-naphthalene	1.00				
2-Methyl-naphthalene	1.00				
Acenapthylene	1.00	1.04		4.0	15.0
Acenapthene	1.00	0.98		2.0	15.0
Flourene	1.00	0.98		2.0	15.0
Phenanthrene	1.00	0.96		4.0	15.0
Anthracene	1.00	0.91		9.0	15.0
Flouranthene	1.00	1.03		3.0	15.0
Pyrene	1.00	1.02		2.0	15.0
Benzo(a)anthracene	1.00	1.03		3.0	15.0
Chrysene	1.00	1.02		2.0	15.0
Benzo(b)flouranthene	1.00	1.00		0.0	15.0
Benzo(k)flouranthene	1.00	1.04		4.0	15.0
Benzo(a)pyrene	1.00	1.02		2.0	15.0
Dibenz(ah)anthracene	1.00	1.03		3.0	15.0
Benzo(ghi)Perylene	1.00	1.01		1.0	15.0
Indeno(123cd)pyrene	1.00	1.11		11.0	15.0

AVERAGE 3.81

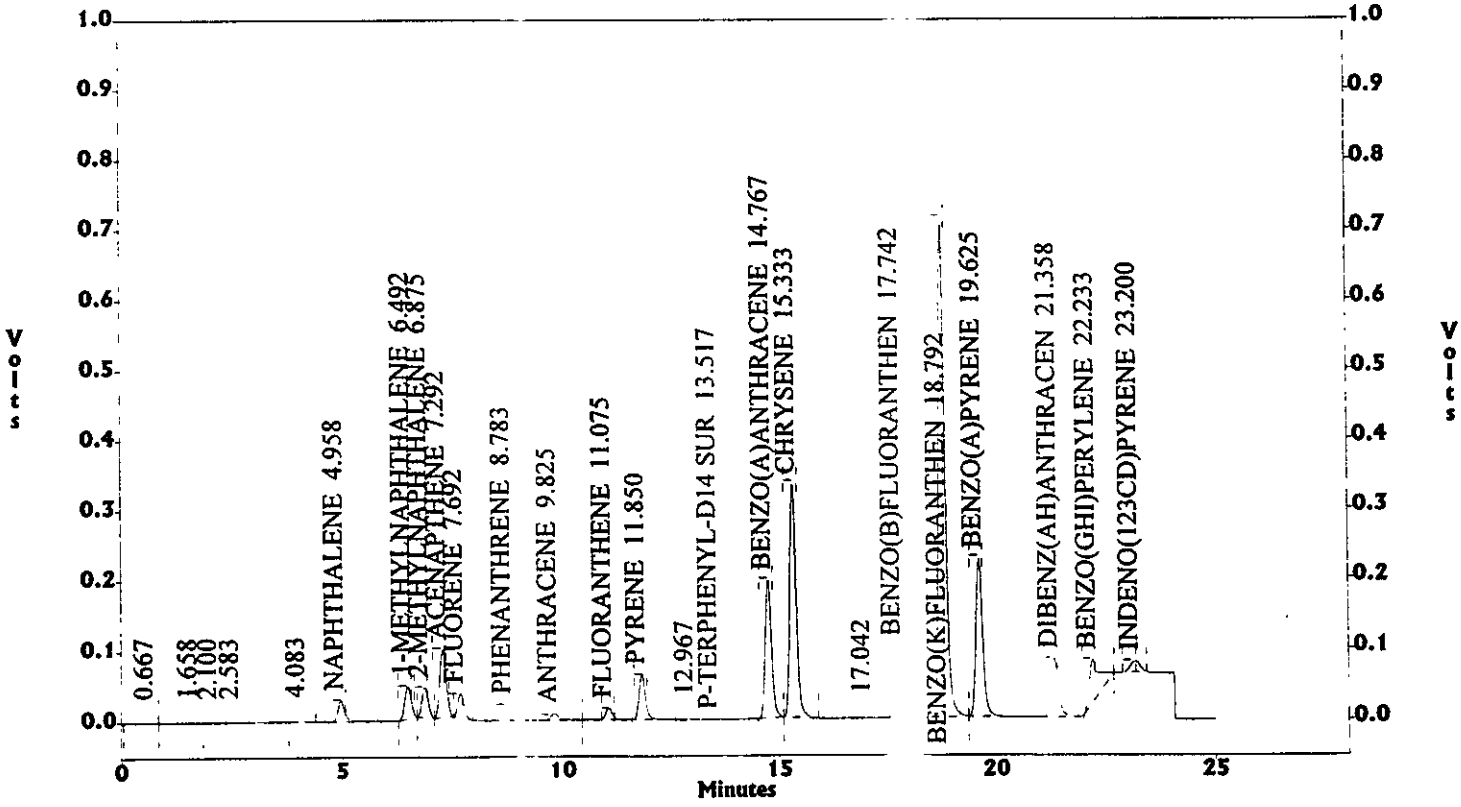
HPLC 1

File : c:\ezchromb\chrom\0326lc3.023
Method : c:\ezchromb\methods\lc1\8310doc.met
Sample ID : 1.0 pah
Acquired : Mar 27, 2000 00:40:40
Printed : Apr 14, 2000 16:38:55
User : System

c:\ezchromb\chrom\0326lc3.023 -- Channel A



c:\ezchromb\chrom\0326lc3.023 -- Channel B



7C

8310 PAH CONTINUING CALIBRATION CHECK

Lab Name:	Specialized Assays	Contract:	
SDG #	184949	Location:	
Instrument ID:	HPLC 3	Calibration Date:	1/25/00
Lab File ID:	0326lc3.034	Cont. Calib. Date:	3/27/00

FLOURECENSE CHANNEL

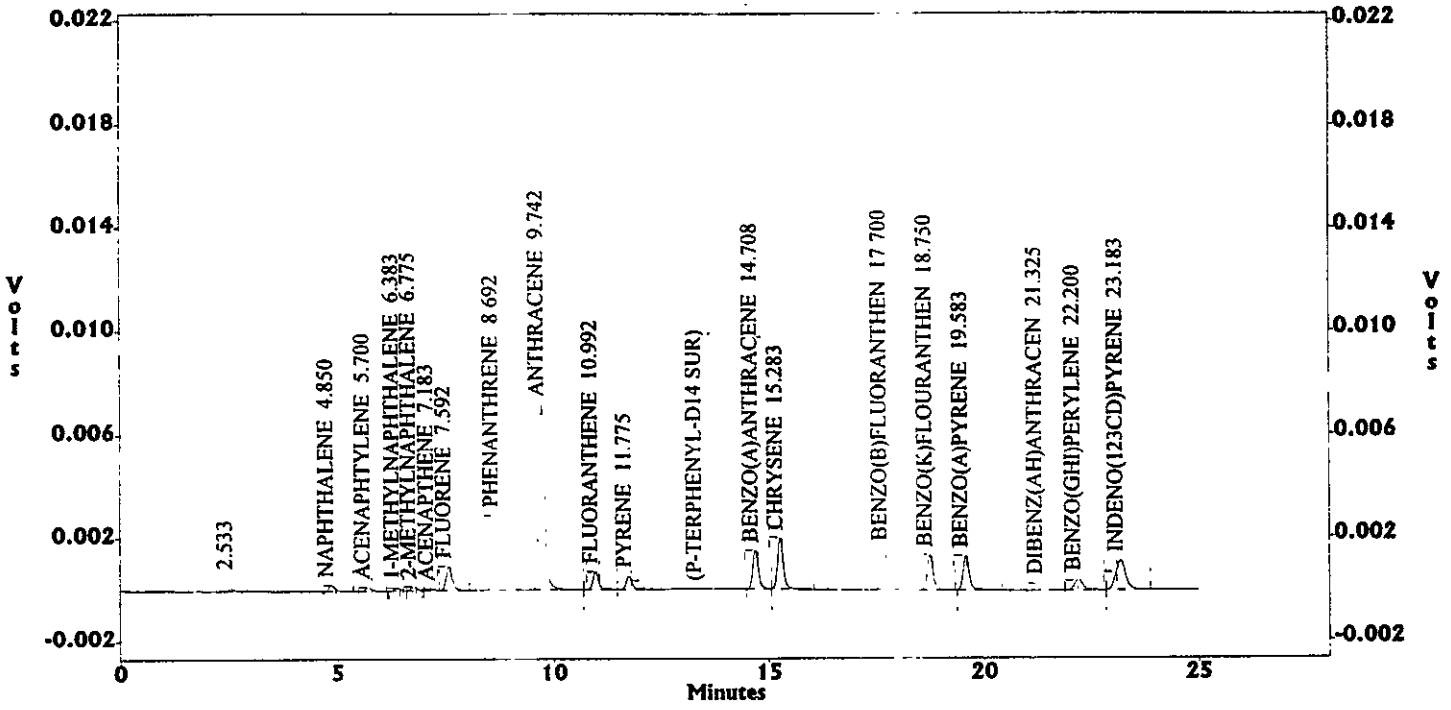
COMPOUND	known	actual		%D	MAX %D
Napthalene	1.00	0.93		7.0	15.0
1-Methyl-naphthalene	1.00				
2-Methyl-naphthalene	1.00				
Acenapthylene					
Acenapthene	1.00	0.85		15.0	15.0
Flourene	1.00	1.05		5.0	15.0
Phenanthrene	1.00	0.97		3.0	15.0
Anthracene	1.00	1.43		43.0	15.0
Flouranthene	1.00	0.92		8.0	15.0
Pyrene	1.00	0.90		10.0	15.0
Benzo(a)anthracene	1.00	0.93		7.0	15.0
Chrysene	1.00	0.95		5.0	15.0
Benzo(b)flouranthene	1.00	1.04		4.0	15.0
Benzo(k)flouranthene	1.00	0.95		5.0	15.0
Benzo(a)pyrene	1.00	1.06		6.0	15.0
Dibenz(ah)anthracene	1.00	1.02		2.0	15.0
Benzo(ghi)Perylene	1.00	1.22		22.0	15.0
Indeno(123cd)pyrene	1.00	1.02		2.0	15.0

AVERAGE 9.60

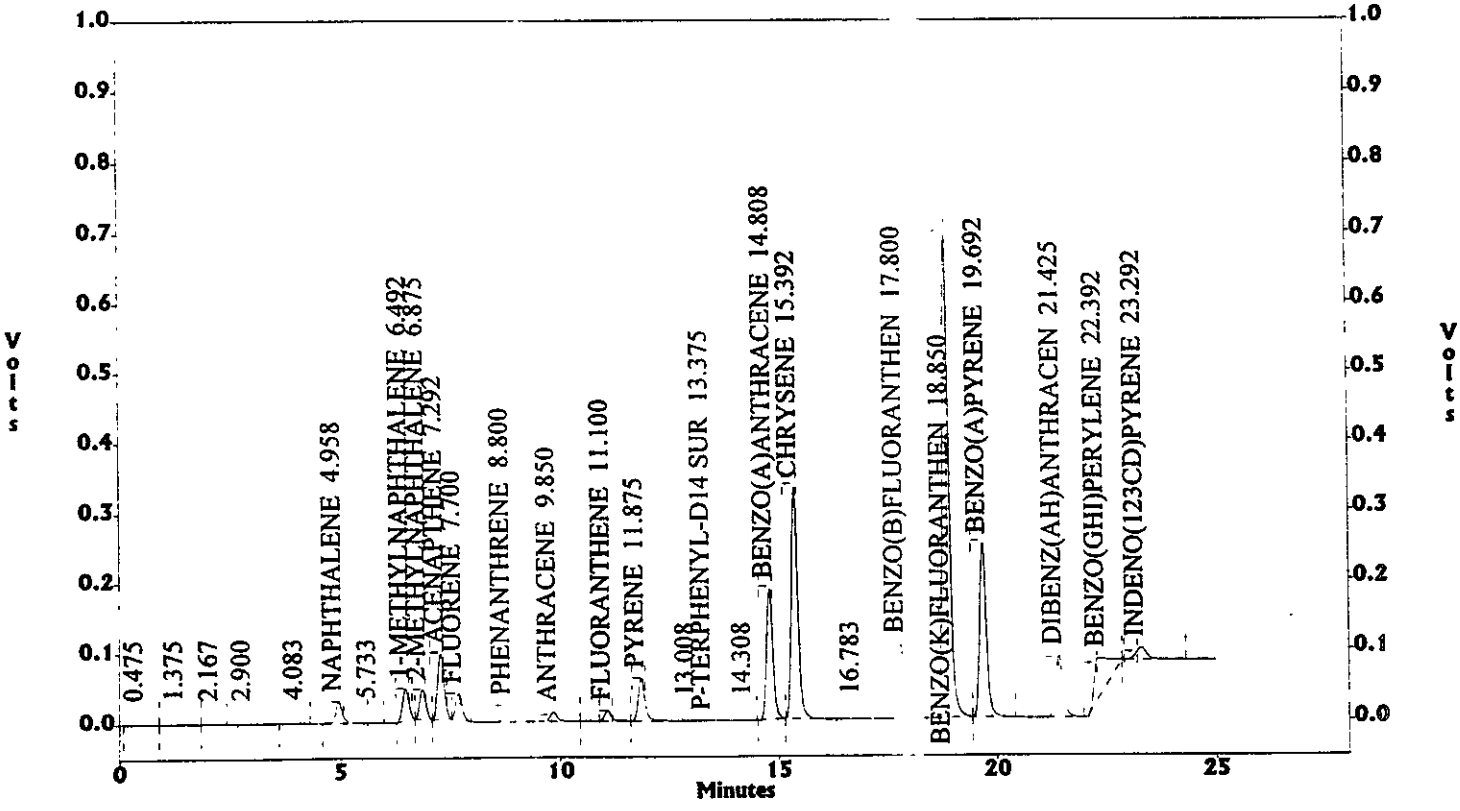
HPLC 1

File : c:\ezchromb\chrom\0326lc3.034
Method : c:\ezchromb\methods\lc1\8310doc.met
Sample ID : 1.0 pah
Acquired : Mar 27, 2000 05:29:10
Printed : Apr 14, 2000 16:39:04
User : System

c:\ezchromb\chrom\0326lc3.034 -- Channel A



c:\ezchromb\chrom\0326lc3.034 -- Channel B



HPLC 1

File : c:\ezchromb\chrom\0326lc3.034
Method : c:\ezchromb\methods\lc1\8310doc.met
Sample ID : 1.0 pah
Acquired : Mar 27, 2000 05:29:10
Printed : Apr 14, 2000 16:39:04
User : System

Channel A Results

Peak Name	Time	Area	Conc.
NAPHTHALENE	4.85	2003	0.91
ACENAPHTYLENE	5.70	1501	1.04
1-METHYLNAPHT	6.38	1106	1.13
2-METHYLNAPHT	6.78	1448	0.85
ACENAPTHENE	7.18	634	0.98
FLUORENE	7.59	9002	0.98
PHENANTHRENE	8.69	27733	0.96
ANTHRACENE	9.74	66484	0.91
FLUORANTHENE	10.99	6377	1.03
PYRENE	11.77	5016	1.02
P-TERPHENYL-D	13.40	0	0.00
BENZO(A)ANTHR	14.71	13330	1.03
CHRYSENE	15.28	18166	1.02
BENZO(B)FLUOR	17.70	14755	1.00
BENZO(K)FLOUR	18.75	13085	1.04
BENZO(A)PYREN	19.58	13135	1.02
DIBENZ(AH)ANT	21.33	3073	1.03
BENZO(GHI)PER	22.20	5324	1.01
INDENO(123CD)	23.18	18011	1.11

Channel B Results

Name	Time	Area	Conc.
NAPHTHALENE	4.96	308849	0.93
1-METHYLNAPHT	6.49	472105	1.03
2-METHYLNAPHT	6.88	426837	0.84
ACENAPTHENE	7.29	967191	0.85
FLUORENE	7.70	372591	1.05
PHENANTHRENE	8.80	251856	0.97
ANTHRACENE	9.85	149568	1.43
FLUORANTHENE	11.10	162328	0.92
PYRENE	11.88	640241	0.90
P-TERPHENYL-D	13.38	8520	0.03
BENZO(A)ANTHR	14.81	1867968	0.93
CHRYSENE	15.39	3392833	0.95
BENZO(B)FLUOR	17.80	1118852	1.04
BENZO(K)FLUOR	18.85	7300577	0.95
BENZO(A)PYREN	19.69	2671546	1.06
DIBENZ(AH)ANT	21.42	1019930	1.02
BENZO(GHI)PER	22.39	1313239	1.22
INDENO(123CD)	23.29	273028	1.02

7C

8310 PAH CONTINUING CALIBRATION CHECK

Lab Name:	Specialized Assays	Contract:	
SDG #	184949	Location:	
Instrument ID:	HPLC 3	Calibration Date:	1/25/00
Lab File ID:	0326lc3.035	Cont. Calib. Date:	3/27/00

UV CHANNEL

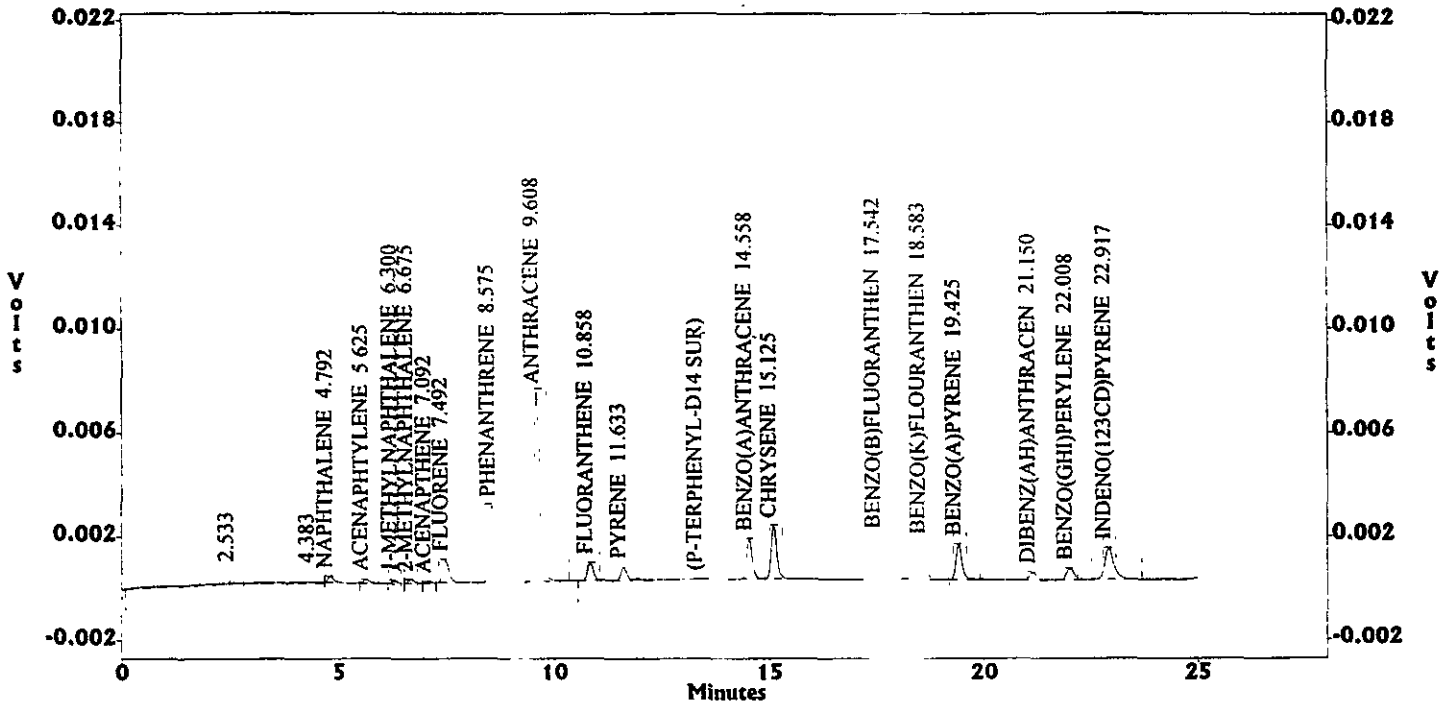
COMPOUND	known	actual		%D	MAX %D
Napthalene	1.00	0.86		14.0	15.0
1-Methyl-naphthalene	1.00				
2-Methyl-naphthalene	1.00				
Acenapthylene	1.00	0.92		8.0	15.0
Acenapthene	1.00	0.99		1.0	15.0
Flourene	1.00	0.97		3.0	15.0
Phenanthrene	1.00	0.98		2.0	15.0
Anthracene	1.00	0.93		7.0	15.0
Flouranthene	1.00	1.04		4.0	15.0
Pyrene	1.00	1.05		5.0	15.0
Benzo(a)anthracene	1.00	1.05		5.0	15.0
Chrysene	1.00	1.04		4.0	15.0
Benzo(b)flouranthene	1.00	1.03		3.0	15.0
Benzo(k)flouranthene	1.00	1.06		6.0	15.0
Benzo(a)pyrene	1.00	1.01		1.0	15.0
Dibenz(ah)anthracene	1.00	1.04		4.0	15.0
Benzo(ghi)Perylene	1.00	1.03		3.0	15.0
Indeno(123cd)pyrene	1.00	1.08		8.0	15.0

AVERAGE 4.88

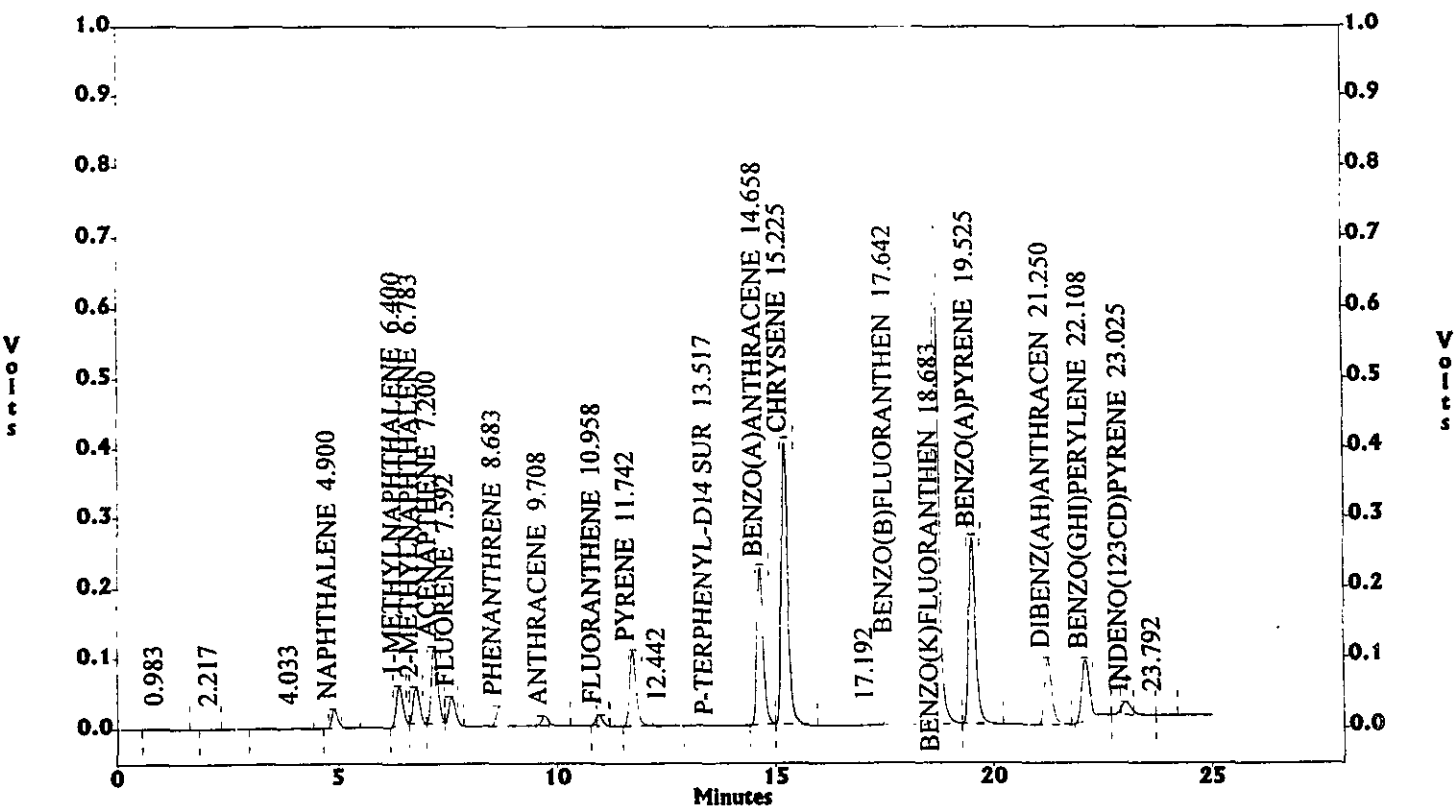
HPLC 1

File : c:\ezchromb\chrom\0326lc3.035
Method : c:\ezchromb\methods\lc1\8310doc.met
Sample ID : 1.0 pah
Acquired : Mar 27, 2000 09:56:50
Printed : Apr 18, 2000 11:35:54
User : System

c:\ezchromb\chrom\0326lc3.035 -- Channel A



c:\ezchromb\chrom\0326lc3.035 -- Channel B



7C

8310 PAH CONTINUING CALIBRATION CHECK

Lab Name:	Specialized Assays	Contract:	
SDG #	184949	Location:	
Instrument ID:	HPLC 3	Calibration Date:	1/25/00
Lab File ID:	0326lc3.035	Cont. Calib. Date:	3/27/00

FLOURECENSE CHANNEL

COMPOUND	known	actual		%D	MAX %D
Napthalene	1.00	0.79		21.0	15.0
1-Methyl-naphthalene	1.00				
2-Methyl-naphthalene	1.00				
Acenapthylene					
Acenapthene	1.00	0.98		2.0	15.0
Flourene	1.00	1.06		6.0	15.0
Phenanthrene	1.00	1.24		24.0	15.0
Anthracene	1.00	1.44		44.0	15.0
Flouranthene	1.00	0.90		10.0	15.0
Pyrene	1.00	1.56		56.0	15.0
Benzo(a)anthracene	1.00	1.12		12.0	15.0
Chrysene	1.00	1.16		16.0	15.0
Benzo(b)flouranthene	1.00	1.12		12.0	15.0
Benzo(k)flouranthene	1.00	0.98		2.0	15.0
Benzo(a)pyrene	1.00	1.13		13.0	15.0
Dibenz(ah)anthracene	1.00	1.08		8.0	15.0
Benzo(ghi)Perylene	1.00	1.05		5.0	15.0
Indeno(123cd)pyrene	1.00	1.08		8.0	15.0

AVERAGE 15.93

HPLC 1

File : c:\ezchromb\chrom\0326lc3.035
Method : c:\ezchromb\methods\lc1\8310doc.met
Sample ID : 1.0 pah
Acquired : Mar 27, 2000 09:56:50
Printed : Apr 18, 2000 11:35:54
User : System

Channel A Results

Peak Name	Time	Area	Conc.
NAPHTHALENE	4.79	1908	0.86
ACENAPHTYLENE	5.63	1351	0.92
1-METHYLNAPHT	6.30	1168	1.19
2-METHYLNAPHT	6.68	1572	0.94
ACENAPTHENE	7.09	635	0.99
FLUORENE	7.49	8886	0.97
PHENANTHRENE	8.57	28245	0.98
ANTHRACENE	9.61	67981	0.93
FLUORANTHENE	10.86	6470	1.04
PYRENE	11.63	5181	1.05
P-TERPHENYL-D	13.40	0	0.00
BENZO(A)ANTHR	14.56	13593	1.05
CHRYSENE	15.13	18518	1.04
BENZO(B)FLUOR	17.54	15093	1.03
BENZO(K)FLOUR	18.58	13347	1.06
BENZO(A)PYREN	19.42	12981	1.01
DIBENZ(AH)ANT	21.15	3101	1.04
BENZO(GHI)PER	22.01	5442	1.03
INDENO(123CD)	22.92	17558	1.08

Channel B Results

Name	Time	Area	Conc.
NAPHTHALENE	4.90	268010	0.79
1-METHYLNAPHT	6.40	569830	1.25
2-METHYLNAPHT	6.78	518974	1.04
ACENAPTHENE	7.20	1103964	0.98
FLUORENE	7.59	375706	1.06
PHENANTHRENE	8.68	315464	1.24
ANTHRACENE	9.71	150640	1.44
FLUORANTHENE	10.96	159765	0.90
PYRENE	11.74	1100624	1.56
P-TERPHENYL-D	13.52	7222	0.02
BENZO(A)ANTHR	14.66	2246530	1.12
CHRYSENE	15.23	4152820	1.16
BENZO(B)FLUOR	17.64	1204131	1.12
BENZO(K)FLUOR	18.68	7566959	0.98
BENZO(A)PYREN	19.52	2859716	1.13
DIBENZ(AH)ANT	21.25	1072987	1.08
BENZO(GHI)PER	22.11	1131922	1.05
INDENO(123CD)	23.02	288596	1.08

7C

8310 PAH CONTINUING CALIBRATION CHECK

Lab Name:	Specialized Assays	Contract:	
SDG #	184949	Location:	
Instrument ID:	HPLC 3	Calibration Date:	1/25/00
Lab File ID:	0326lc3.046	Cont. Calib. Date:	3/27/00

UV CHANNEL

COMPOUND	known	actual		%D	MAX %D
Napthalene	1.00	0.94		6.0	15.0
1-Methyl-naphthalene	1.00				
2-Methyl-naphthalene	1.00				
Acenapthylene	1.00	1.09		9.0	15.0
Acenapthene	1.00	1.04		4.0	15.0
Flourene	1.00	0.96		4.0	15.0
Phenanthrene	1.00	0.97		3.0	15.0
Anthracene	1.00	0.92		8.0	15.0
Flouranthene	1.00	1.03		3.0	15.0
Pyrene	1.00	1.05		5.0	15.0
Benzo(a)anthracene	1.00	1.04		4.0	15.0
Chrysene	1.00	1.04		4.0	15.0
Benzo(b)flouranthene	1.00	1.01		1.0	15.0
Benzo(k)flouranthene	1.00	1.05		5.0	15.0
Benzo(a)pyrene	1.00	1.01		1.0	15.0
Dibenz(ah)anthracene	1.00	1.04		4.0	15.0
Benzo(ghi)Perylene	1.00	1.03		3.0	15.0
Indeno(123cd)pyrene	1.00	1.04		4.0	15.0

AVERAGE 4.25

7C

8310 PAH CONTINUING CALIBRATION CHECK

Lab Name:	Specialized Assays	Contract:	
SDG #	184949	Location:	
Instrument ID:	HPLC 3	Calibration Date:	1/25/00
Lab File ID:	0326lc3.046	Cont. Calib. Date:	3/27/00

FLOURECENSE CHANNEL

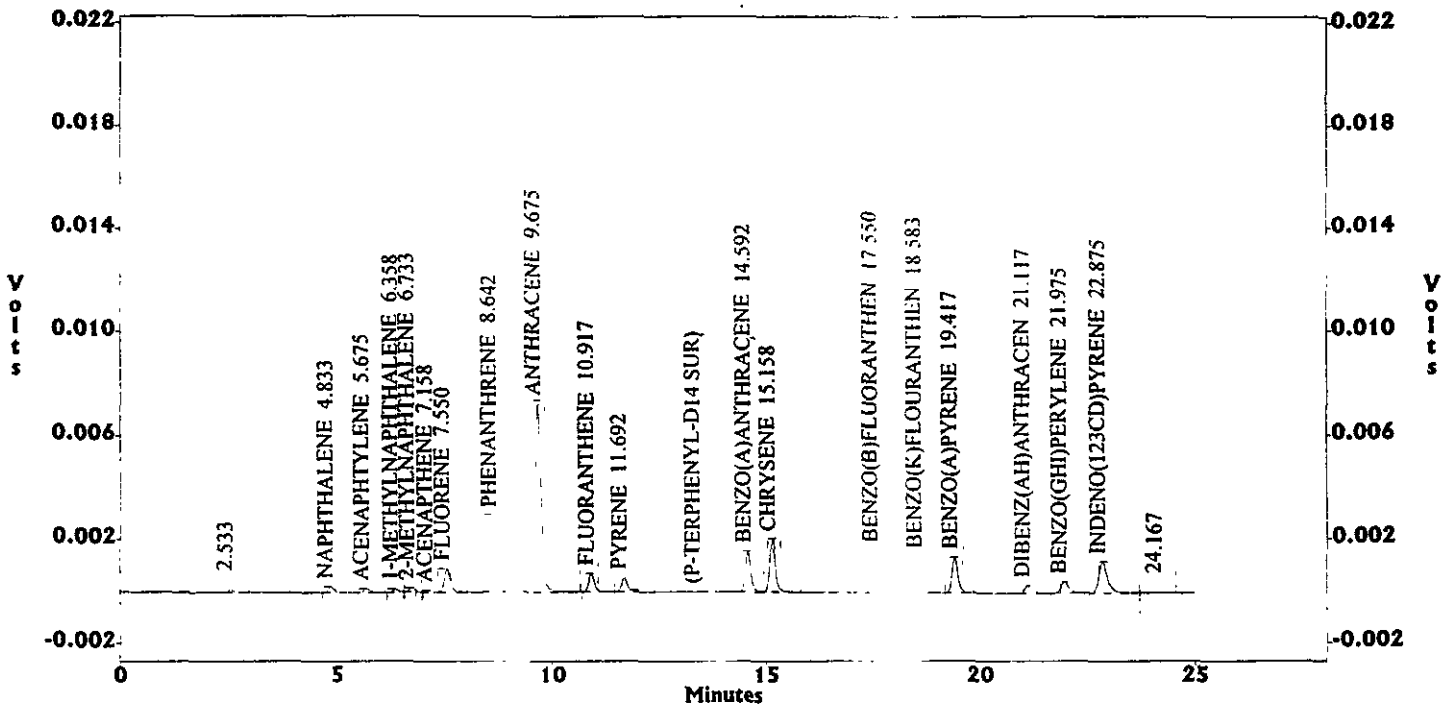
COMPOUND	known	actual		%D	MAX %D
Napthalene	1.00	0.95		5.0	15.0
1-Methyl-naphthalene	1.00				
2-Methyl-naphthalene	1.00				
Acenapthylene					
Acenapthene	1.00	0.85		15.0	15.0
Flourene	1.00	1.04		4.0	15.0
Phenanthrene	1.00	0.98		2.0	15.0
Anthracene	1.00	1.38		38.0	15.0
Flouranthene	1.00	0.89		11.0	15.0
Pyrene	1.00	0.93		7.0	15.0
Benzo(a)anthracene	1.00	0.93		7.0	15.0
Chrysene	1.00	0.95		5.0	15.0
Benzo(b)flouranthene	1.00	1.04		4.0	15.0
Benzo(k)flouranthene	1.00	0.95		5.0	15.0
Benzo(a)pyrene	1.00	1.06		6.0	15.0
Dibenz(ah)anthracene	1.00	1.04		4.0	15.0
Benzo(ghi)Perylene	1.00	1.00		0.0	15.0
Indeno(123cd)pyrene	1.00	1.03		3.0	15.0

AVERAGE 7 73

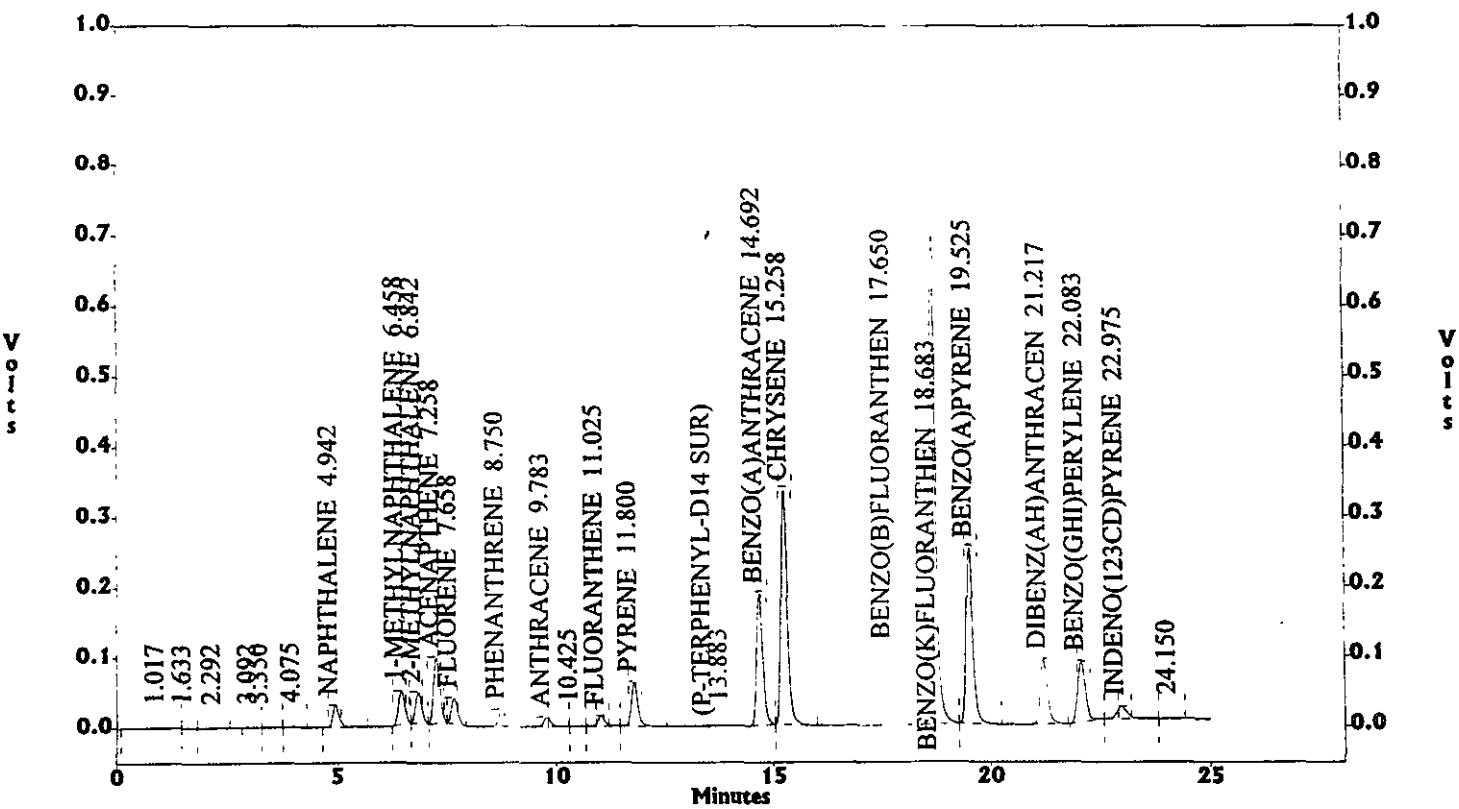
HPLC 1

File : c:\ezchromb\chrom\0326lc3.046
Method : c:\ezchromb\methods\lc1\8310doc.met
Sample ID : 1.0 pah
Acquired : Mar 27, 2000 15:23:23
Printed : Apr 18, 2000 11:38:07
User : System

c:\ezchromb\chrom\0326lc3.046 -- Channel A



c:\ezchromb\chrom\0326lc3.046 -- Channel B



1C

8310 PAH ANALYSIS DATA SHEET

SAMPLE NO.

WBLK01

Lab Name: Specialized Assays Contract: _____

SDG #: 184949 Location: _____ Group: _____

Matrix: (soil/water) water Lab Sample ID: 7358 WBB

Sample wt/vol: 1000.0 (g/mL) mL Lab File ID: 0326lc3.013

Level: (low/med) low Date Analyzed: 3/26

% Moisture: 0 Date Received: 3/23/00

HPLC Column: Vydac C18 D: 4.60 (mm) Dilution Factor: 1

Extract Volume: 1000 (uL) Injection Volume: 5.0 (uL)

Extraction Date: 03/24/00

Concentration Units:

CAS No.	Compound		ug/L	ug/L	Q
	Napthalene		1.000		U
	1-Methyl-naphthalene				~~U~~
	2-Methyl-naphthalene				~~U~~
	Acenapthylene		2.000		U
	Acenapthene		1.000		U
	Flourene		0.210		U
	Phenanthrene		0.640		U
	Anthracene		0.660		U
	Flouranthene		0.210		U
	Pyrene		0.270		U
	Benzo(a)anthracene		0.130		U
	Chrysene		0.150		U
	Benzo(b)flouranthene		0.180		U
	Benzo(k)flouranthene		0.170		U
	Benzo(a)pyrene		0.100		U
	Dibenz(ah)anthracene		0.300		U
	Benzo(ghi)Perylene		0.760		U
	Indeno(123cd)pyrene		0.430		U

NR NR 4-19-00 lgv

HPLC 1

File : c:\ezchromb\chrom\0326lc3.046
Method : c:\ezchromb\methods\lc1\8310doc.met
Sample ID : 1.0 pah
Acquired : Mar 27, 2000 15:23:23
Printed : Apr 18, 2000 11:38:08
User : System

Channel A Results

Peak Name	Time	Area	Conc.
NAPHTHALENE	4.83	2061	0.94
ACENAPHTYLENE	5.68	1576	1.09
1-METHYLNAPHT	6.36	1148	1.17
2-METHYLNAPHT	6.73	1580	0.94
ACENAPTHENE	7.16	671	1.04
FLUORENE	7.55	8815	0.96
PHENANTHRENE	8.64	27946	0.97
ANTHRACENE	9.68	67009	0.92
FLUORANTHENE	10.92	6412	1.03
PYRENE	11.69	5175	1.05
P-TERPHENYL-D	13.40	0	0.00
BENZO(A)ANTHR	14.59	13496	1.04
CHRYSENE	15.16	18419	1.04
BENZO(B)FLUOR	17.55	14872	1.01
BENZO(K)FLOUR	18.58	13137	1.05
BENZO(A)PYREN	19.42	12950	1.01
DIBENZ(AH)ANT	21.12	3106	1.04
BENZO(GHI)PER	21.98	5424	1.03
INDENO(123CD)	22.88	16934	1.04

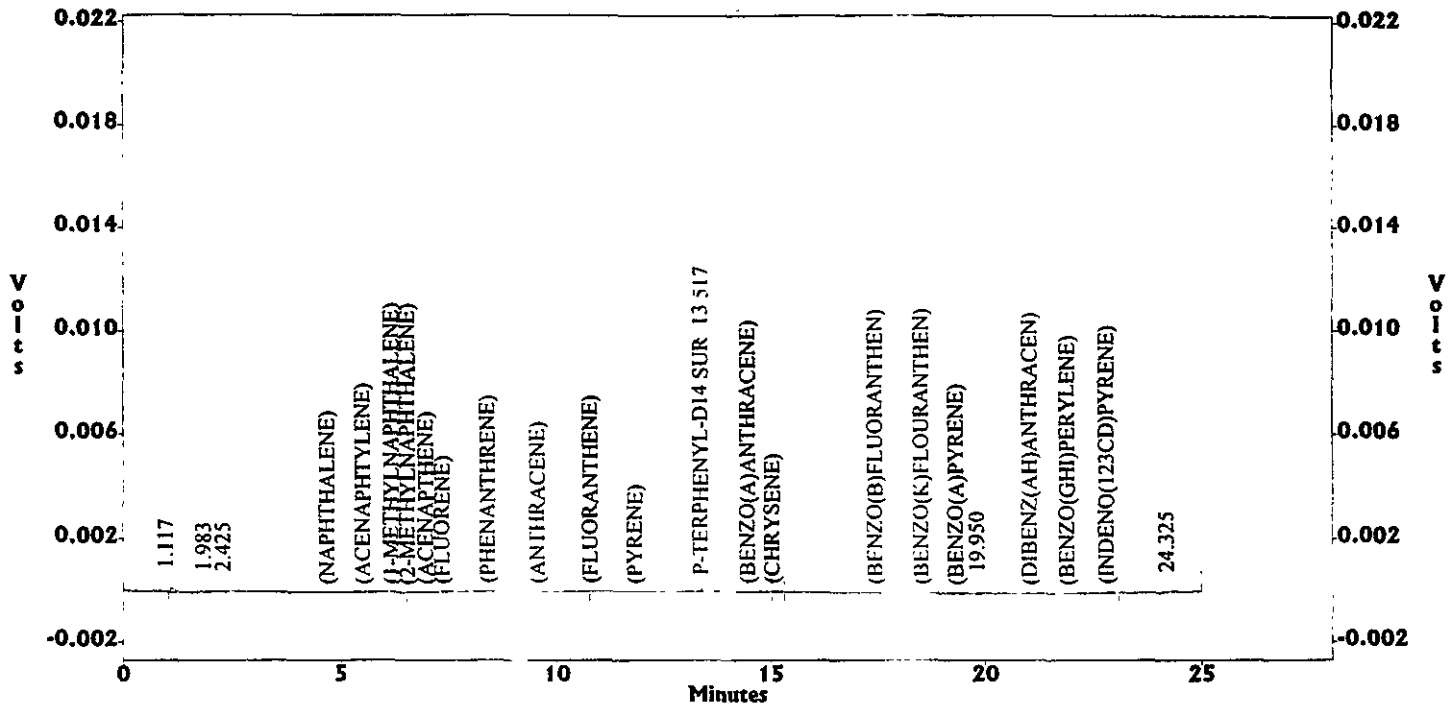
Channel B Results

Name	Time	Area	Conc.
NAPHTHALENE	4.94	314506	0.95
1-METHYLNAPHT	6.46	485379	1.06
2-METHYLNAPHT	6.84	444020	0.88
ACENAPTHENE	7.26	964482	0.85
FLUORENE	7.66	369877	1.04
PHENANTHRENE	8.75	253993	0.98
ANTHRACENE	9.78	145464	1.38
FLUORANTHENE	11.02	158317	0.89
PYRENE	11.80	656832	0.93
P-TERPHENYL-D	13.50	0	0.00
BENZO(A)ANTHR	14.69	1868847	0.93
CHRYSENE	15.26	3403931	0.95
BENZO(B)FLUOR	17.65	1117135	1.04
BENZO(K)FLUOR	18.68	7330236	0.95
BENZO(A)PYREN	19.52	2682795	1.06
DIBENZ(AH)ANT	21.22	1038899	1.04
BENZO(GHI)PER	22.08	1079342	1.00
INDENO(123CD)	22.98	276460	1.03

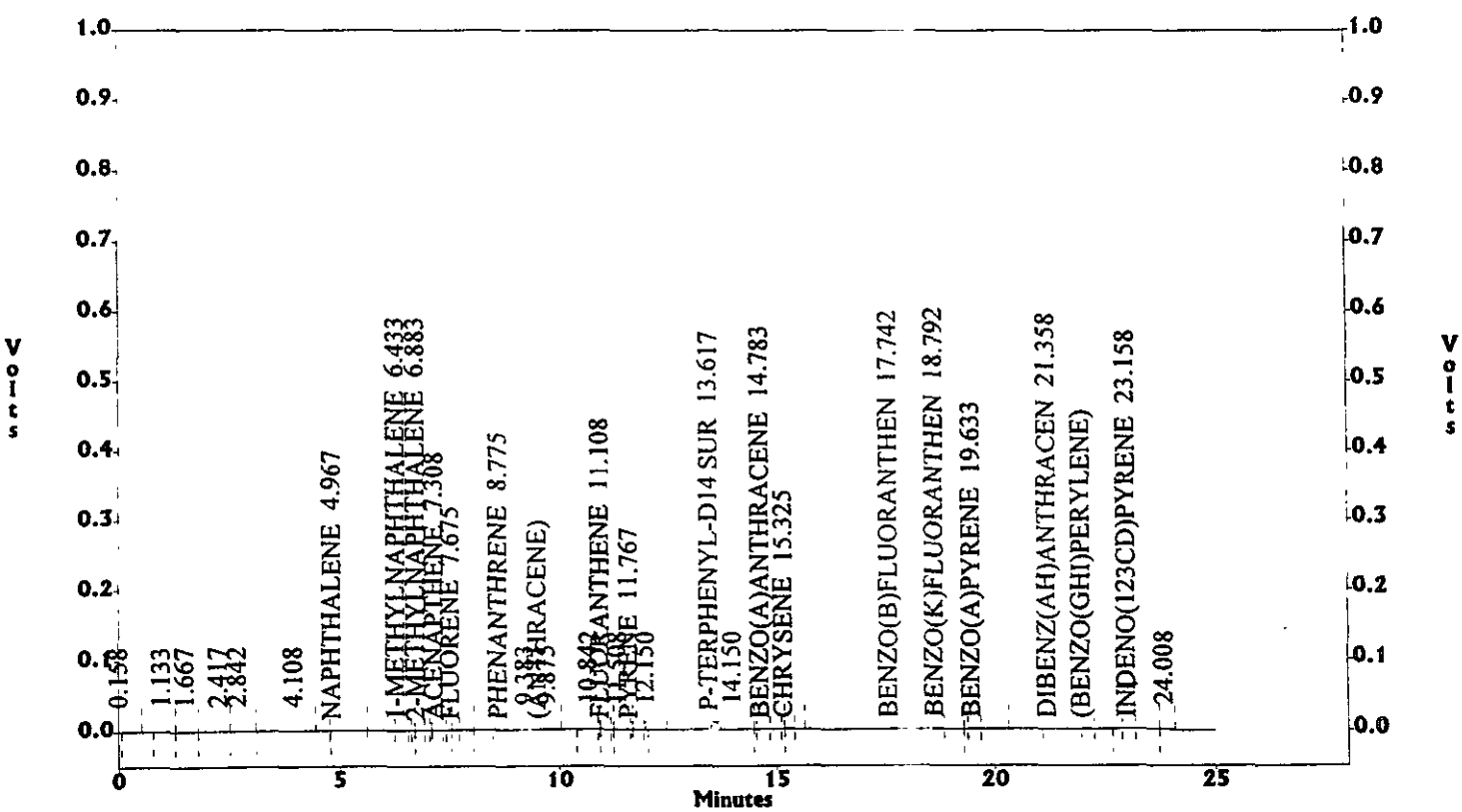
HPLC 1

File : c:\ezchromb\chrom\0326lc3.013
Method : c:\ezchromb\methods\lc1\8310a.met
Sample ID : 7358 wbb
Acquired : Mar 26, 2000 20:18:19
Printed : Mar 27, 2000 09:51:31
User : System

c:\ezchromb\chrom\0326lc3.013 -- Channel A



c:\ezchromb\chrom\0326lc3.013 -- Channel B



HPLC 1

File : c:\ezchromb\chrom\0326lc3.013
Method : c:\ezchromb\methods\lc1\8310a.met
Sample ID : 7358 wbb
Acquired : Mar 26, 2000 20:18:19
Printed : Mar 27, 2000 09:51:31
User : System

Channel A Results

Peak Name	Time	Area	Conc.
NAPHTHALENE	4.81	0	0.00
ACENAPHTYLENE	5.63	0	0.00
1-METHYLNAPHT	6.30	0	0.00
2-METHYLNAPHT	6.68	0	0.00
ACENAPTHENE	7.10	0	0.00
FLUORENE	7.47	0	0.00
PHENANTHRENE	8.54	0	0.00
ANTHRACENE	9.69	0	0.00
FLUORANTHENE	10.93	0	0.00
PYRENE	11.98	0	0.00
P-TERPHENYL-D	13.52	2586	0.51
BENZO(A)ANTHR	14.61	0	0.00
CHRYSENE	15.18	0	0.00
BENZO(B)FLUOR	17.58	0	0.00
BENZO(K)FLOUR	18.65	0	0.00
BENZO(A)PYREN	19.45	0	0.00
DIBENZ(AH)ANT	21.17	0	0.00
BENZO(GHI)PER	22.03	0	0.00
INDENO(123CD)	22.94	0	0.00

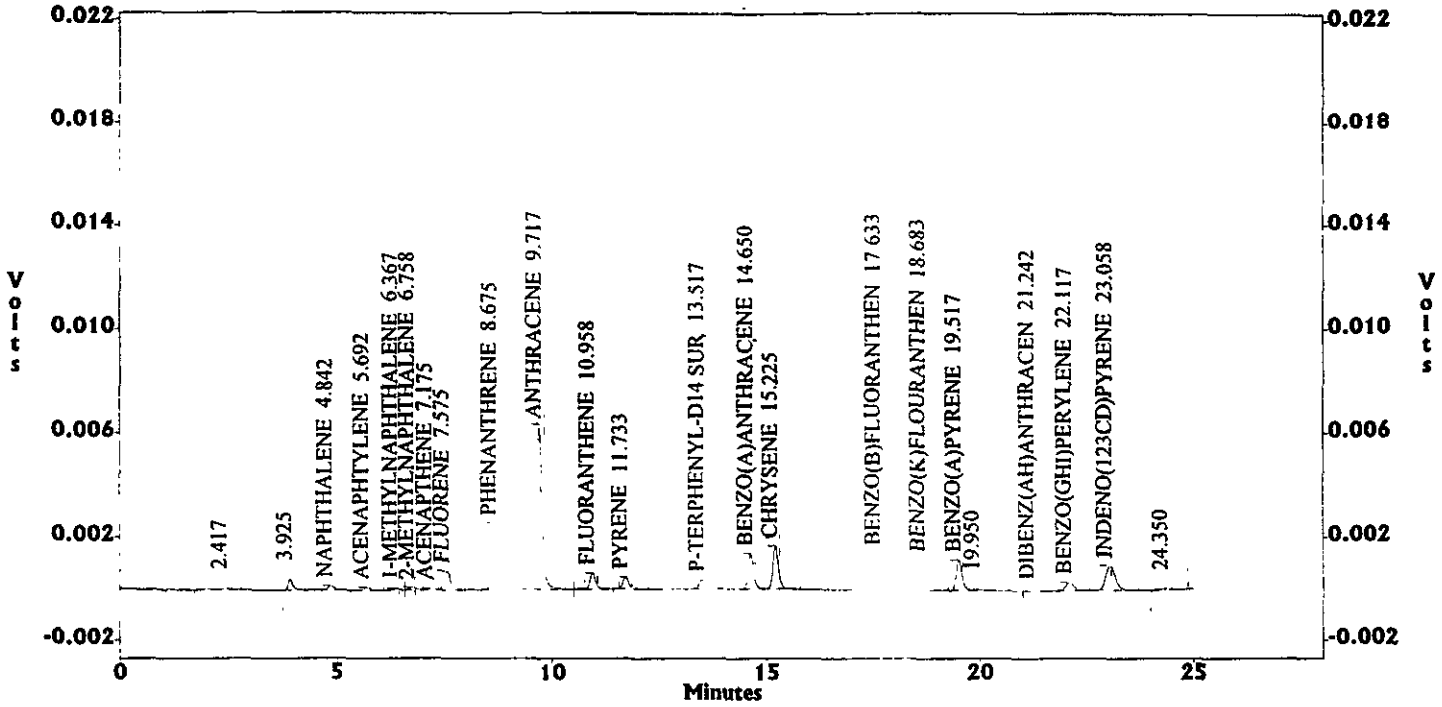
Channel B Results

Name	Time	Area	Conc.
NAPHTHALENE	4.97	11836	0.00
1-METHYLNAPHT	6.43	11163	0.00
2-METHYLNAPHT	6.88	5564	0.00
ACENAPTHENE	7.31	3635	0.00
FLUORENE	7.68	3421	0.00
PHENANTHRENE	8.77	10954	0.00
ANTHRACENE	9.66	0	0.00
FLUORANTHENE	11.11	3138	0.00
PYRENE	11.77	2582	0.00
P-TERPHENYL-D	13.62	117550	0.52
BENZO(A)ANTHR	14.78	7882	0.00
CHRYSENE	15.32	9820	0.00
BENZO(B)FLUOR	17.74	3106	0.00
BENZO(K)FLUOR	18.79	25759	0.00
BENZO(A)PYREN	19.63	11589	0.00
DIBENZ(AH)ANT	21.36	5662	0.00
BENZO(GHI)PER	22.13	0	0.00
INDENO(123CD)	23.16	6402	0.01

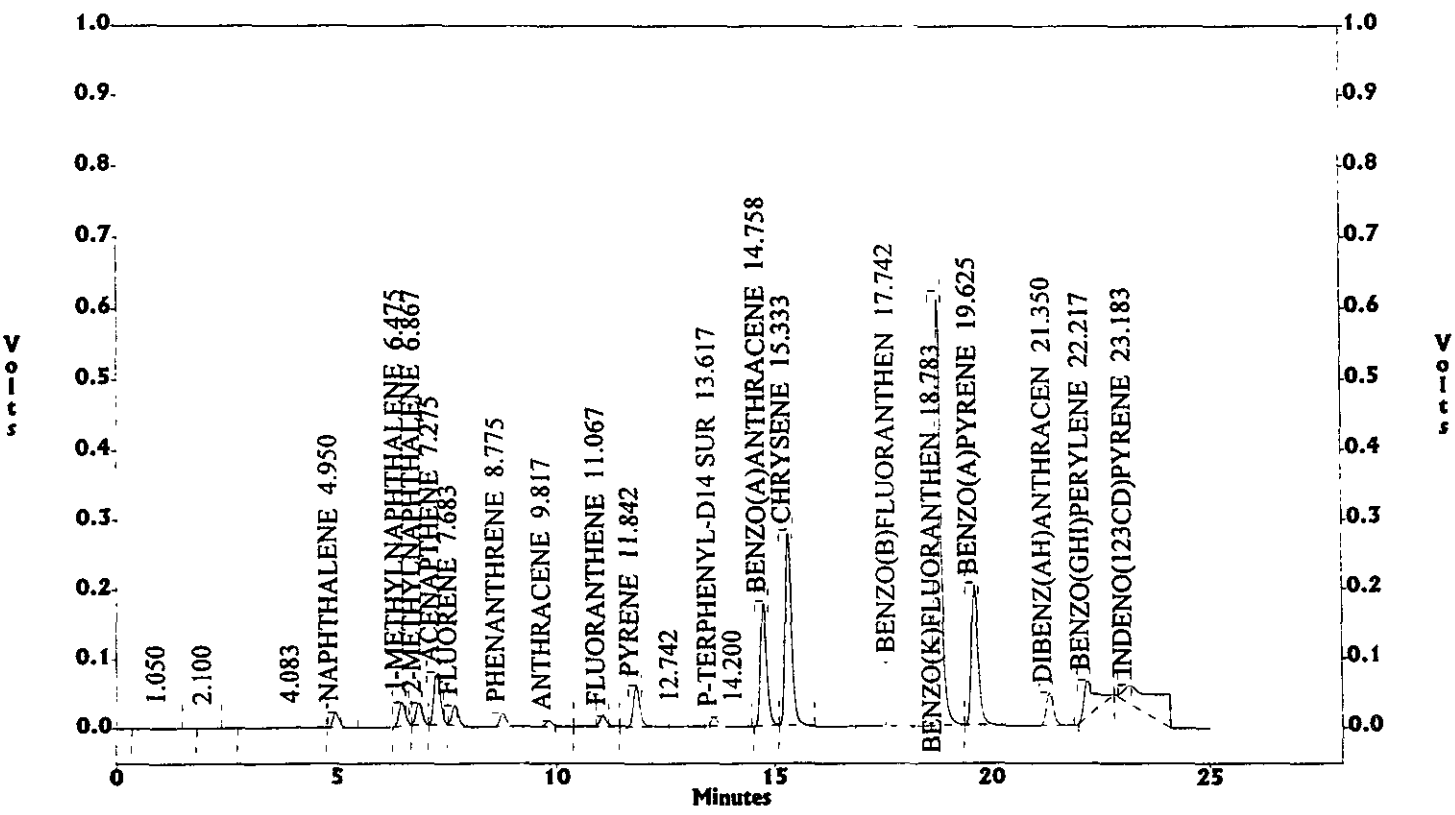
HPLC 1

File : c:\ezchromb\chrom\0326lc3.014
Method : c:\ezchromb\methods\lc1\8310a.met
Sample ID : 7359 wsb
Acquired : Mar 26, 2000 20:44:33
Printed : Mar 29, 2000 13:47:21
User : System

c:\ezchromb\chrom\0326lc3.014 -- Channel A



c:\ezchromb\chrom\0326lc3.014 -- Channel B



HPLC 1

File : c:\ezchromb\chrom\0326lc3.014
Method : c:\ezchromb\methods\lc1\8310a.met
Sample ID : 7359 wsb
Acquired : Mar 26, 2000 20:44:33
Printed : Mar 29, 2000 13:47:21
User : System

Channel A Results

Peak Name	Time	Area	Conc.
NAPHTHALENE	4.84	1668	0.73
ACENAPHTYLENE	5.69	1290	0.88
1-METHYLNAPHT	6.37	833	0.86
2-METHYLNAPHT	6.76	1115	0.63
ACENAPTHENE	7.18	491	0.75
FLUORENE	7.57	7194	0.76
PHENANTHRENE	8.68	24328	0.83
ANTHRACENE	9.72	58027	0.77
FLUORANTHENE	10.96	5907	0.95
PYRENE	11.73	4649	0.95
P-TERPHENYL-D	13.52	3108	0.61
BENZO(A)ANTHR	14.65	12165	0.94
CHRYSENE	15.23	15220	0.85
BENZO(B)FLUOR	17.63	13466	0.91
BENZO(K)FLOUR	18.68	11366	0.90
BENZO(A)PYREN	19.52	11334	0.88
DIBENZ(AH)ANT	21.24	1694	0.57
BENZO(GHI)PER	22.12	4217	0.80
INDENO(123CD)	23.06	15127	0.93

Channel B Results

Name	Time	Area	Conc.
NAPHTHALENE	4.95	209697	0.60
1-METHYLNAPHT	6.47	345855	0.75
2-METHYLNAPHT	6.87	307025	0.58
ACENAPTHENE	7.28	767576	0.67
FLUORENE	7.68	280407	0.77
PHENANTHRENE	8.77	200786	0.76
ANTHRACENE	9.82	101641	0.91
FLUORANTHENE	11.07	157230	0.89
PYRENE	11.84	607451	0.86
P-TERPHENYL-D	13.62	130932	0.58
BENZO(A)ANTHR	14.76	1757518	0.87
CHRYSENE	15.33	2828068	0.79
BENZO(B)FLUOR	17.74	943859	0.87
BENZO(K)FLUOR	18.78	6448212	0.84
BENZO(A)PYREN	19.63	2165898	0.85
DIBENZ(AH)ANT	21.35	529804	0.52
BENZO(GHI)PER	22.22	916847	0.85
INDENO(123CD)	23.18	2026709	7.65

075

1C

8310 PAH ANALYSIS DATA SHEET

SAMPLE NO.

BLANK MS

Lab Name: Specialized Assays Contract:

SDG #.: 184949 Location: Group:

Matrix: (soil/water) water Lab Sample ID: 7359 WBB

Sample wt/vol: 1000.0 (g/mL) mL Lab File ID: 0326lc3.014

Level: (low/med) low Date Analyzed: 3/26

% Moisture: 0 Date Received: 3/23/00

HPLC Column: Vydac C18 D: 4.60 (mm) Dilution Factor: 1

Extract Volume: 1000 (uL) Injection Volume: 5.0 (uL)

CAS No.	Compound	Concentration Units: ug/L	ug/L	Q
	Napthalene	0.73		
	1-Methyl-naphthalene			
	2-Methyl-naphthalene			
	Acenapthylene	0.88		
	Acenapthene	0.67		
	Flourene	0.76		
	Phenanthrene	0.83		
	Anthracene	0.77		
	Flouranthene	0.95		
	Pyrene	0.95		
	Benzo(a)anthracene	0.94		
	Chrysene	0.85		
	Benzo(b)flouranthene	0.91		
	Benzo(k)flouranthene	0.9		
	Benzo(a)pyrene	0.88		
	Dibenz(ah)anthracene	0.57		
	Benzo(ghi)Perylene	0.8		
	Indeno(123cd)pyrene	0.93		

1C

8310 PAH ANALYSIS DATA SHEET

SAMPLE NO.

BLANK MSD

Lab Name: Specialized Assays Contract:

SDG #.: 184949 Location: Group:

Matrix: (soil/water) water Lab Sample ID: 7360 WBB

Sample wt/vol: 1000.0 (g/mL) mL Lab File ID: 0326lc3.015

Level: (low/med) low Date Analyzed: 3/26

% Moisture: 0 Date Received: 3/23/00

HPLC Column: Vydac C18 D: 4.60 (mm) Dilution Factor: 1

Extract Volume: 1000 (uL) Injection Volume: 5.0 (uL)

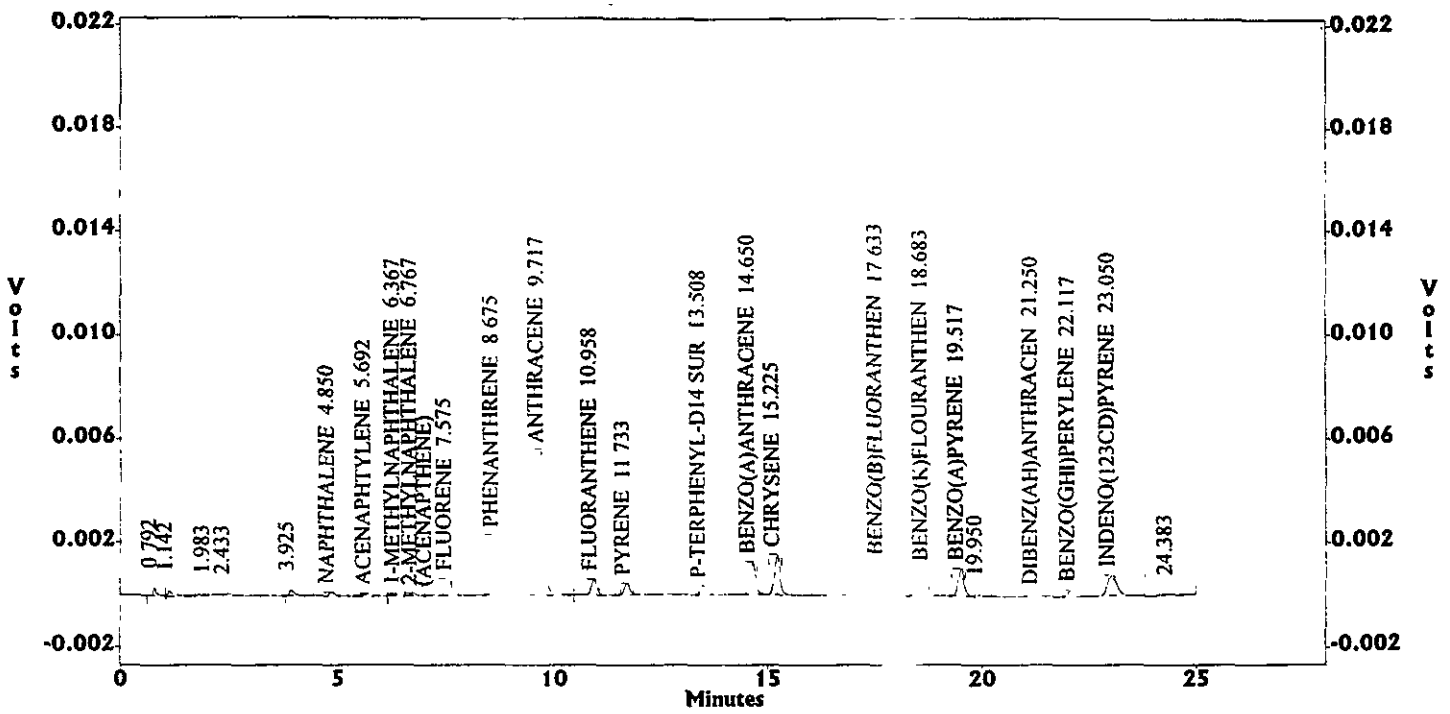
CAS No.	Compound	Concentration Units: ug/L	ug/L	Q
	Napthalene	0.65		
	1-Methyl-naphthalene			
	2-Methyl-naphthalene			
	Acenapthylene	0.74		
	Acenapthene	0.56		
	Flourene	0.69		
	Phenanthrene	0.72		
	Anthracene	0.66		
	Flouranthene	0.9		
	Pyrene	0.89		
	Benzo(a)anthracene	0.86		
	Chrysene	0.77		
	Benzo(b)flouranthene	0.81		
	Benzo(k)flouranthene	0.78		
	Benzo(a)pyrene	0.76		
	Dibenz(ah)anthracene	0.46		
	Benzo(ghi)Perylene	0.61		
	Indeno(123cd)pyrene	0.76		

078

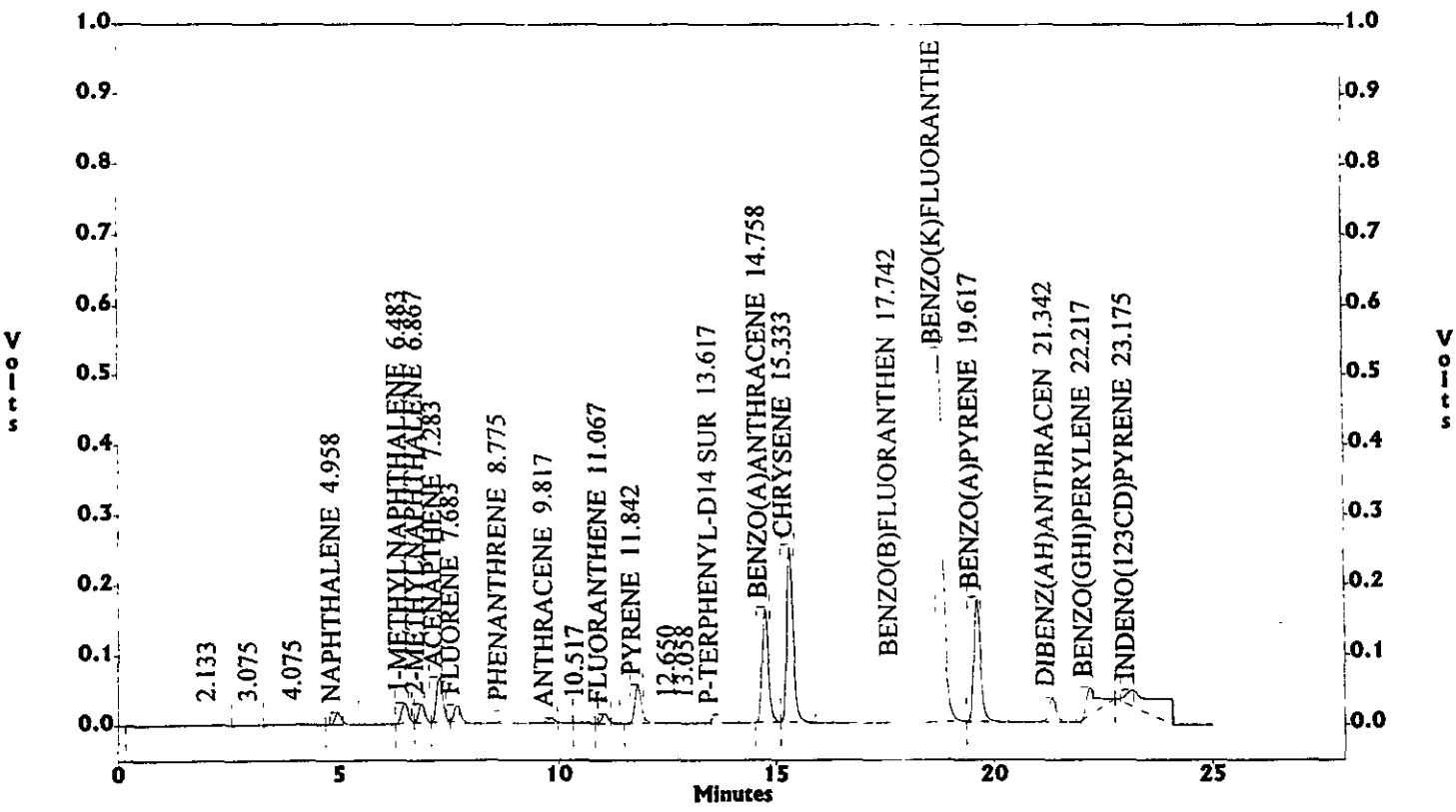
HPLC 1

File : c:\ezchromb\chrom\0326lc3.015
Method : c:\ezchromb\methods\lc1\8310a.met
Sample ID : 7360 wsb
Acquired : Mar 26, 2000 21:10:47
Printed : Mar 29, 2000 13:47:24
User : System

c:\ezchromb\chrom\0326lc3.015 -- Channel A



c:\ezchromb\chrom\0326lc3.015 -- Channel B



HPLC 1

File : c:\ezchromb\chrom\0326lc3.015
Method : c:\ezchromb\methods\lc1\8310a.met
Sample ID : 7360 wsb
Acquired : Mar 26, 2000 21:10:47
Printed : Mar 29, 2000 13:47:24
User : System

Channel A Results

Peak Name	Time	Area	Conc.
NAPHTHALENE	4.85	1530	0.65
ACENAPHTYLENE	5.69	1108	0.74
1-METHYLNAPHT	6.37	699	0.72
2-METHYLNAPHT	6.77	961	0.53
ACENAPTHENE	7.10	0	0.00
FLUORENE	7.57	6602	0.69
PHENANTHRENE	8.68	21604	0.72
ANTHRACENE	9.72	51371	0.66
FLUORANTHENE	10.96	5600	0.90
PYRENE	11.73	4379	0.89
P-TERPHENYL-D	13.51	2930	0.57
BENZO(A)ANTHR	14.65	11143	0.86
CHRYSENE	15.23	13856	0.77
BENZO(B)FLUOR	17.63	11971	0.81
BENZO(K)FLOUR	18.68	9763	0.78
BENZO(A)PYREN	19.52	9863	0.76
DIBENZ(AH)ANT	21.25	1389	0.46
BENZO(GHI)PER	22.12	3230	0.61
INDENO(123CD)	23.05	12481	0.76

Channel B Results

Name	Time	Area	Conc.
NAPHTHALENE	4.96	175278	0.49
1-METHYLNAPHT	6.48	292366	0.63
2-METHYLNAPHT	6.87	262184	0.48
ACENAPTHENE	7.28	656051	0.56
FLUORENE	7.68	244258	0.66
PHENANTHRENE	8.77	176684	0.65
ANTHRACENE	9.82	92252	0.81
FLUORANTHENE	11.07	137408	0.77
PYRENE	11.84	563651	0.79
P-TERPHENYL-D	13.62	123941	0.55
BENZO(A)ANTHR	14.76	1611515	0.80
CHRYSENE	15.33	2553093	0.71
BENZO(B)FLUOR	17.74	834595	0.77
BENZO(K)FLUOR	18.78	5534871	0.72
BENZO(A)PYREN	19.62	1878158	0.74
DIBENZ(AH)ANT	21.34	407907	0.40
BENZO(GHI)PER	22.22	664093	0.61
INDENO(123CD)	23.17	1605068	6.05

1C

8310 PAH ANALYSIS DATA SHEET

SAMPLE NO.

CONTROL W

Lab Name: Specialized Assays Contract:

SDG #.: 184949 Location: Group:

Matrix: (soil/water) water Lab Sample ID: 7444 lcs

Sample wt/vol: 1000.0 (g/mL) mL Lab File ID: 0326lc3.015

Level: (low/med) low Date Analyzed. 3/26

% Moisture: 0 Date Received 3/23/00

HPLC Column: Vydac C18 D: 4.60 (mm) Dilution Factor 1

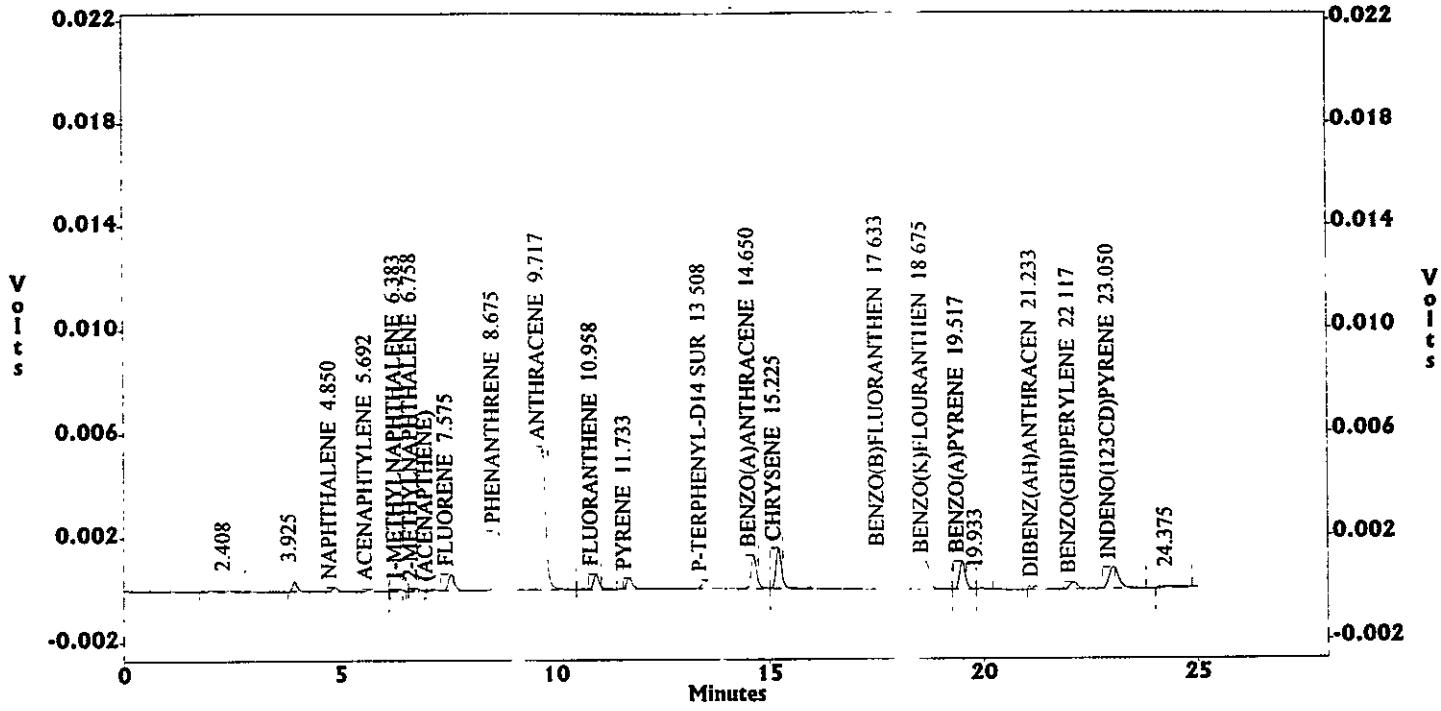
Extract Volume: 1000 (uL) Injection Volume: 5.0 (uL)

CAS No.	Compound	Concentration Units: ug/L	ug/L	Q
	Napthalene	0.61		
	1-Methyl-naphthalene			
	2-Methyl-naphthalene			
	Acenapthylene	0.70		
	Acenapthene	0.56		
	Flourene	0.69		
	Phenanthrene	0.72		
	Anthracene	0.65		
	Flouranthene	0.87		
	Pyrene	0.86		
	Benzo(a)anthracene	0.86		
	Chrysene	0.78		
	Benzo(b)flouranthene	0.83		
	Benzo(k)flouranthene	0.80		
	Benzo(a)pyrene	0.78		
	Dibenz(ah)anthracene	0.44		
	Benzo(ghi)Perylene	0.62		
	Indeno(123cd)pyrene	0.79		

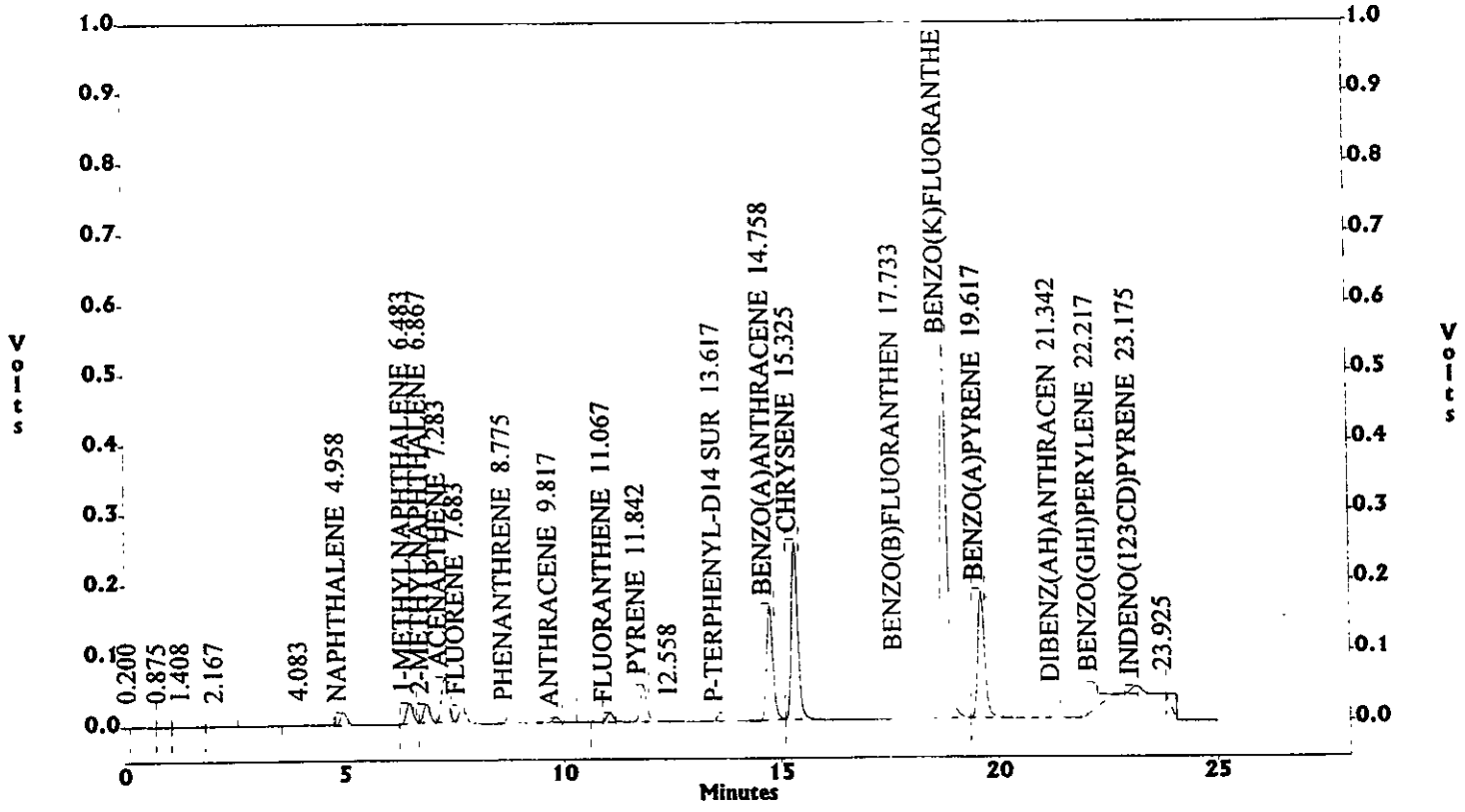
HPLC 1

File : c:\ezchromb\chrom\0326lc3.016
Method : c:\ezchromb\methods\lc1\8310a.met
Sample ID : 7444 lcs
Acquired : Mar 26, 2000 21:37:04
Printed : Mar 29, 2000 13:47:27
User : System

c:\ezchromb\chrom\0326lc3.016 -- Channel A



c:\ezchromb\chrom\0326lc3.016 -- Channel B



HPLC PAH EXTRACTIONS -- WATER

Worklist #: 5589 Date Created: 3/24/00

Analyst: C. Terry Date Extracted: 3/24/00

Position	Sample ID	Extraction	Vol Ext'd	Ext. Vol
1.	blank	C	1000	1.0
2.	00-A38718		970	
3.	00-A38719		970	
4.	00-A38720		970	
5.	00-A38721		970	
6.	00-A38722		970	
7.	00-A38723		970	
8.	00-A38724		980	

sample #	client id	file name
1.0 pah	3-s-sn-243-3	0326lc3.001
1.0 pah	3-s-sn-243-3	0326lc3.002
1.0 pah	3-s-sn-243-3	0326lc3.003
1.0 pah	3-s-sn-243-3	0326lc3.004
1.0 pah	3-s-sn-243-3	0326lc3.005
6467 wbb		0326lc3.006
6467 wbb		0326lc3.007
6468 wsb		0326lc3.008
6469 wsb		0326lc3.009
7695 lcs		0326lc3.010
34683		0326lc3.011
1.0 pah	3-s-sn-243-3	0326lc3.012
7358 wbb		0326lc3.013
7359 wsb		0326lc3.014
7360 wsb		0326lc3.015
7444 lcs		0326lc3.016
38718	AB89497	0326lc3.017
38719	AB89498	0326lc3.018
38720	AB89499	0326lc3.019
38721	AB89500	0326lc3.020
38722	AB89501	0326lc3.021
38723	AB89502	0326lc3.022
1.0 pah	3-s-sn-243-3	0326lc3.023
38724	AB89503	0326lc3.024
38725	AB89504	0326lc3.025
38726	AB89505	0326lc3.026
38727	AB89506	0326lc3.027
38728	AB89507	0326lc3.028
38729	AB89508	0326lc3.029
38730	AB89509	0326lc3.030
38731	AB89510	0326lc3.031
38732	AB89511	0326lc3.032
38973		0326lc3.033
1.0 pah	3-s-sn-243-3	0326lc3.034
1.0 pah	3-s-sn-243-3	0326lc3.035
38721x5(100ul+400ul	AB89500	0326lc3.036
38728x5(100ul+400ul	AB89507	0326lc3.037
39480x50(10ul+490ul		0326lc3.038
39482x25(20ul+480ul		0326lc3.039
39338x100(5ul+495ul		0326lc3.040
39339x100(5ul+		0326lc3.041
39340x100(5ul+495ul		0326lc3.042
39341x100(5ul+495ul		0326lc3.043
39342x100(5ul+495ul		0326lc3.044
39343x100(5ul+495ul		0326lc3.045
1.0 pah	3-s-sn-243-3	0326lc3.046

SN

HPLC PAH EXTRACTIONS -- WATER

Worklist #: 5589 Date Created: 3/24/00

Analyst: C. Terry Date Extracted:

Position	Sample ID	Extraction	Vol Ext'd	Ext. Vol
9.	00-A38725	C	980	1.0
10.	00-A38726		980	
11.	00-A38727		980	
12.	00-A38728		980	
13.	00-A38729		980	
14.	00-A38730		980	
15.	00-A38731		980	
16.	00-A38732		970	

HPLC PAH EXTRACTIONS -- WATER

Worklist #: 5589 Date Created: 3/24/00

Analyst: C. Terry Date Extracted:

Position	Sample ID	Extraction	Vol Ext'd	Ext. Vol
17.	00-A38973		960	1.0
18.	Spike	Original: 1	Spike Solution: 1000	
19.	mspkdup	Original: 18	Spike Solution: 1000	
20.	known	Laboratory Control Sample: 1000		

MPLC

METHYLENE CHLORIDE: p5 JR11-5
ACETONE:
HEXANE:
DIETHYL ETHER:
1,1,2-TRICHLOROTRIFLUOROETHANE (freon):
METHANOL:
ACETONITRILE: p4 JR66-2
SILICA GEL:
TOLUENE:
SODIUM CHLORIDE:
PENTANE:
FLORISIL:
SODIUM HYDROXIDE: p4 JR74-3
SULFURIC ACID:
SODIUM SULFATE(anhydrous): p5 CT9-2
HYDROCHLORIC ACID:
EDTA:
BORON TRIFLUORIDE/METHANOL(BF-3):
SODIUM SULFATE (aqueous):
POTASSIUM HYDROXIDE(37%):
SULFURIC ACID(25%):
HEXANE/ACETONE MIX (70:30):

SURROGATE: 4WMH182-6

SPIKE: 4WMH191-7

LCS: "

100 µL ea

Oil and Grease Water Bath Temperature:

Soxhlet Extraction Start Time:_____ **Finish Time:**_____

pH adjustment: NaOH **addition:**_____ **Sulfuric Acid addition:**_____

Secondary verification of Samples, Spike, Surrogate, LCS and extraction date by: 3/24/00

HPLC PAH EXTRACTIONS -- WATER

-klist #: 5589 Date Created: 3/24/00

alyst: D.Yeager Date Extracted: 3/24/00

sition	Sample ID	Extraction	Vol Ext'd	Ext. Vol
1.	blank	Completed	1000	1.00
2.	00-A38718	Completed	970.	1.00
3.	00-A38719	Completed	970.	1.00
4.	00-A38720	Completed	970.	1.00
5.	00-A38721	Completed	970.	1.00
6.	00-A38722	Completed	970.	1.00
7.	00-A38723	Completed	970.	1.00
8.	00-A38724	Completed	980.	1.00

HPLC PAH EXTRACTIONS -- WATER

rklist #: 5589 Date Created: 3/24/00

alyst: D.Yeager Date Extracted: 3/24/00

sition	Sample ID	Extraction	Vol Ext'd	Ext. Vol
9.	00-A38725	Completed	980.	1.00
10.	00-A38726	Completed	980.	1.00
11.	00-A38727	Completed	980.	1.00
12.	00-A38728	Completed	980.	1.00
13.	00-A38729	Completed	980.	1.00
14.	00-A38730	Completed	980.	1.00
15.	00-A38731	Completed	980.	1.00
16.	00-A38732	Completed	970.	1.00

HPLC PAH EXTRACTIONS -- WATER

-klist #: 5589 Date Created: 3/24/00

alyst: D.Yeager Date Extracted: 3/24/00

sition	Sample ID	Extraction	Vol Ext'd	Ext. Vol
17.	00-A38973	Completed	960.	1.00
18.	Spike	Original: 1	Spike Solution:_____	
		Completed	1000	1.00
19.	mspkdup	Original: 18	Spike Solution:_____	
		Completed	1000	1.00
20.	known	Laboratory Control Sample: _____		
		Completed	1000	1.00

SVO GC CALIBRATION CHECKLIST
FL-PRO

DATE / INSTRUMENT: 1-19-00 / Inst #1	METHOD: FL-PRO
MATRIX: Water/Soil	

Are all standards within expiration dates for both stock and serial standards?	(Y)	N	NA
Is the Initial Calibration compliant with the method specifications?	(Y)	N	NA
Were daily retention time windows updated?	(Y)	N	NA
Is the runlog completely filled out (including review signature/date)?	(Y)	N	NA
Are all mistakes single lined, initialled, and dated?	(Y)	N	NA

Analyst: MT	Reviewer: [signature]
Date: 1-19-00 Time: 15:00	Date: 01/24/00 Time: 3:20 PM

Sequence Date: 1-11-00
Analyst Initials: MT
Run Method: ELPRO
Quant Method: PRO0112

Initial Calibration Compound: PRO
Date: 01-12-00

Vial Position	AAL Sample I.D. #	Extraction Date	Matrix	Dilution Factor	OTP/C(39) Recovery	PRO DRO Spike Recovery	AAL Std. I.D. #	Comments
1	Solvent Blank	NA	$MeCl_2$	1X	NA	NA		
2	850 PHS PRO Std.	↓	Std	↓	↓	↓	005V001	
3	2550		↓				005V002	
4	4250						005V003	
5	5950						005V004	
6	8500		↓				005V005	
7	Solvent Blank	↓	$MeCl_2$		↓			
8	PROW Blank 1221	12-21-99	W		80/25	↓		
9	PROW LCS 1221	↓	↓		81/13	MT 1-10 9356		
10	PROW LCSD 1221				82/9	MT 1-10 53		
11	83218	↓	↓		14/31	NA		
7	Solvent Blank	NA	$MeCl_2$		NA	↓		
4	4250 PHS PRO Cal	↓	Std	↓	104/107	98	005V003	
			↓					
				MT	1-12-00			

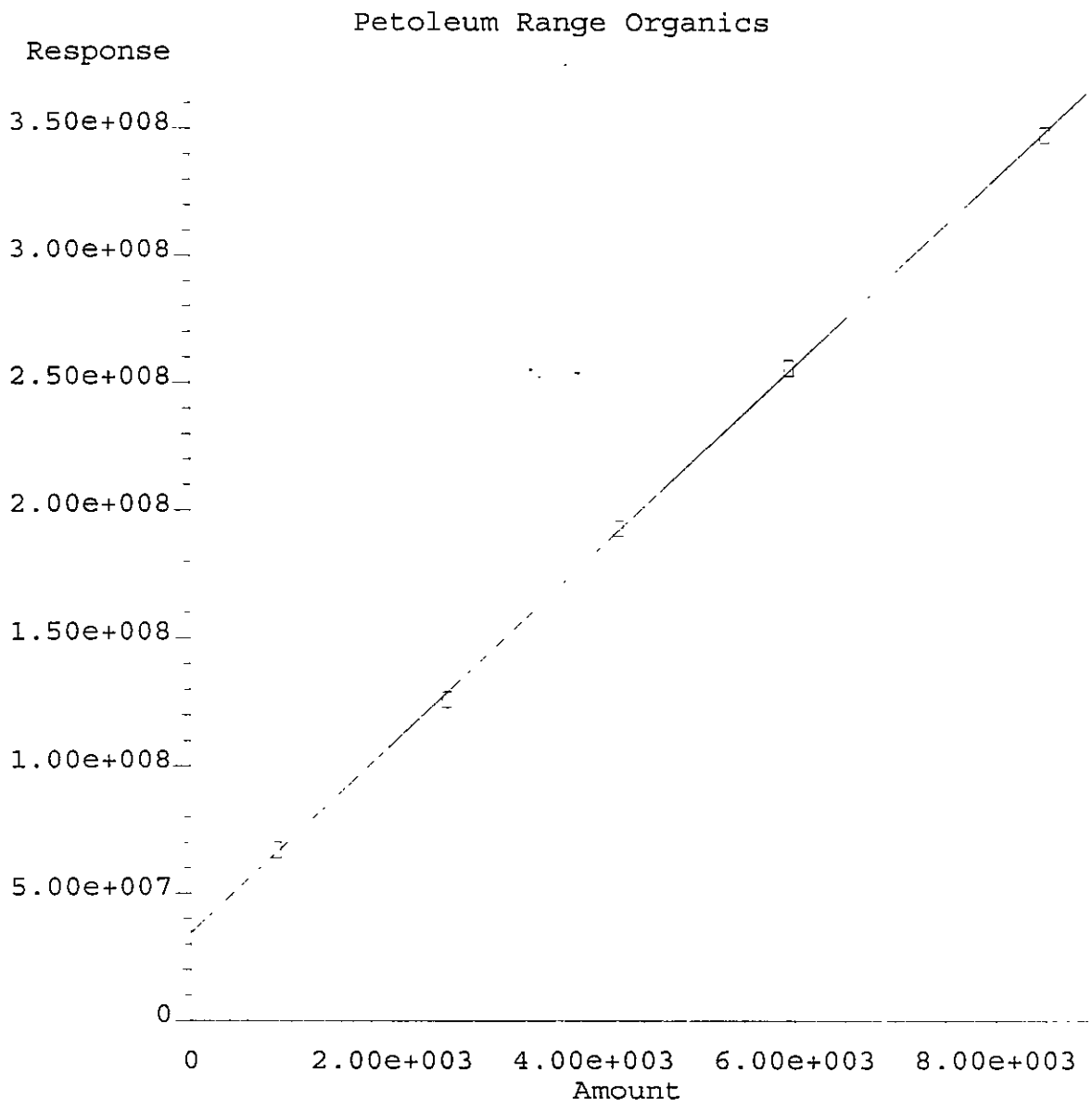
Initials / Date: MT 1-12-00

Sequence Date: 1-18-00
Analyst Initials: MT
Run Method: FLPRO
Quant Method: PRO0112

Initial Calibration Compound: PRO
Date: 1-12-00

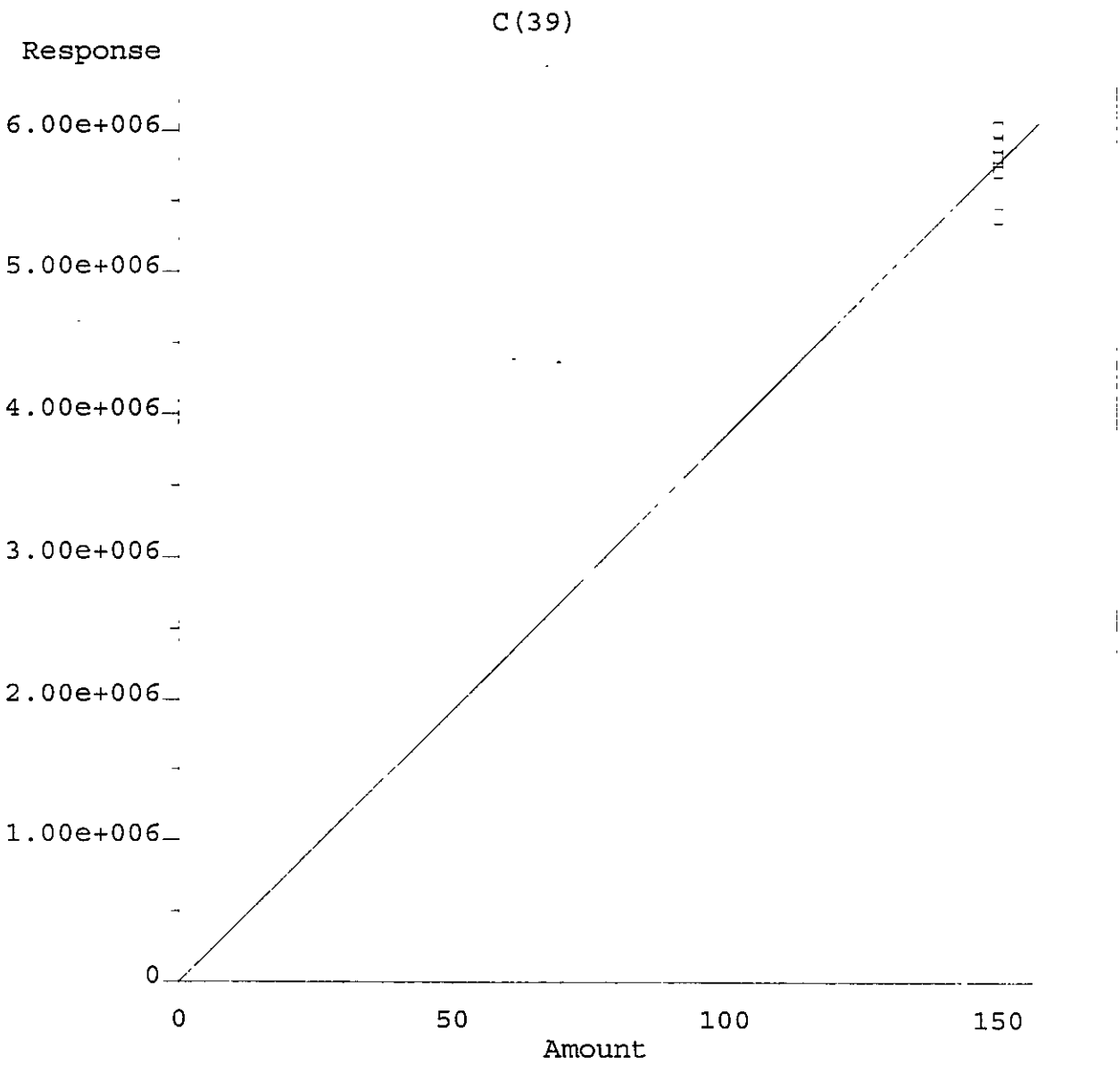
Vial Position	AAL Sample I.D. #	Extraction Date	Matrix	Dilution Factor	OTP/C(39) Recovery	~~DRO~~ PRO Spike MT 1-19-00 Recovery	AAL Std. I.D. #	Comments
1	Solvent Blank	NA	$MeCl_2$	1X	NA	NA		
2	4250 PHS PRO ICVS	↓	Std.	↓	102/104	110	005V006	
3	PROS Blank 0113	1-13-00	S		98/34 x	NA		< ½ R.L.
4	PROS LCS 0113		↓		104/20 x	82		
5	84319 MS 10X			10X	108/23 x	25 x		
6	84319 MSD 10X			↓	108/57 x	15 x		
7	84319 10X				118/65	NA		
8	84320			1X	88/35 x	↓		
9	84321	↓	↓	↓	93/29 x			
10	Solvent Blank	NA	$MeCl_2$		NA			
11	4250 PHS PRO CCV	↓	Std.	↓	106/102	112	005V006	
					MT 1-19-00			

Initials / Date: MT 1-19-00



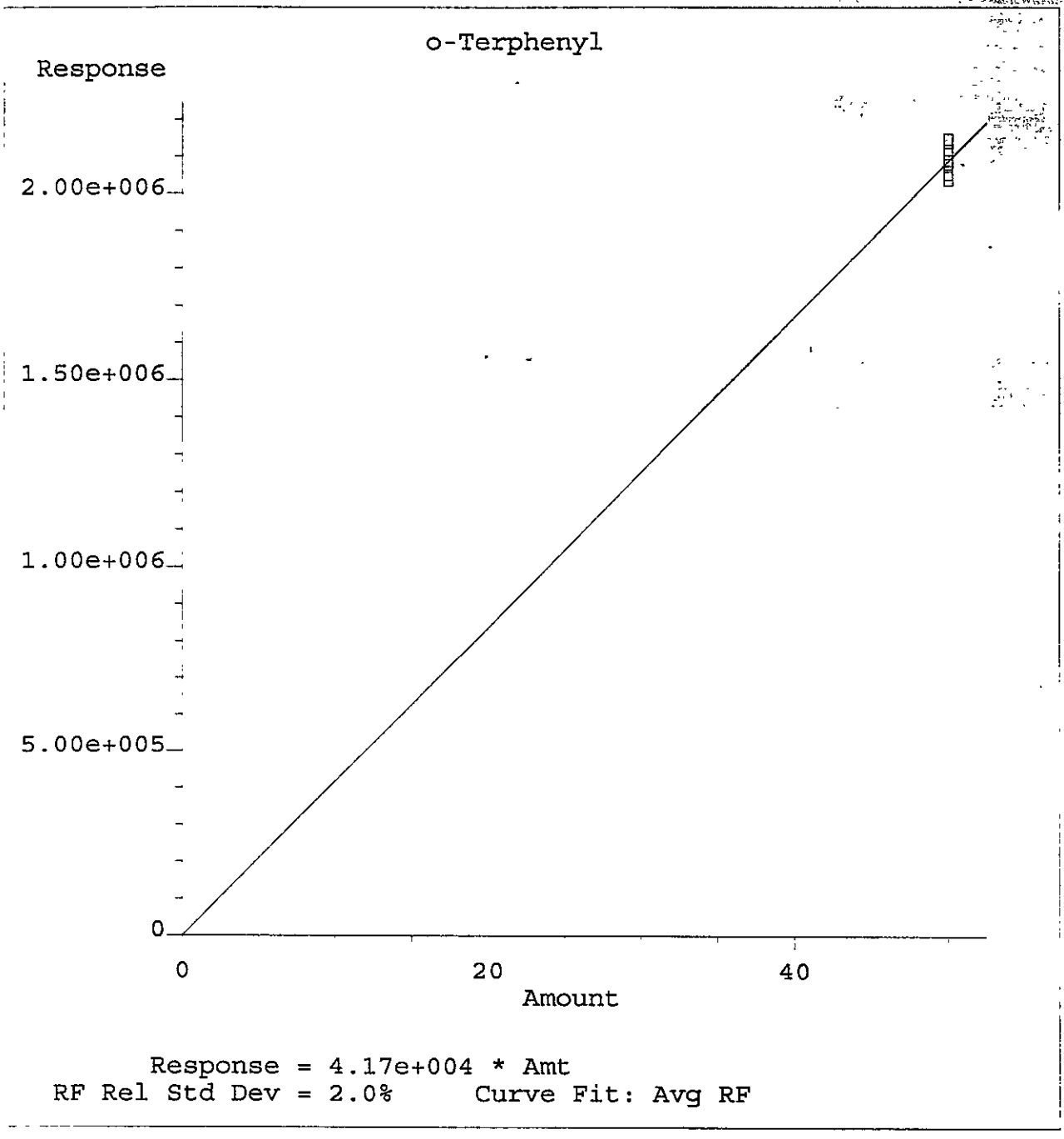
Response = 3.70e+004 * Amt + 3.44e+007
Coef of Det (r^2) = 1.000 Curve Fit: Linear

Method Name: C:\HPCHEM\1\METHODS\PRO0112A.M
Calibration Table Last Updated: Wed Jan 12 11:34:45 2000



Response = 3.84e+004 * Amt
RF Rel Std Dev = 4.1% Curve Fit: Avg RF

Method Name: C:\HPCHEM\1\METHODS\PRO0112.M
Calibration Table Last Updated: Tue Feb 15 18:30:58 2000



Method Name: C:\HPCHEM\1\METHODS\PRO0112.M
Calibration Table Last Updated: Tue Feb 15 18:30:58 2000

Response Factor Report DUAL FID

Method : C:\HPCHEM\1\METHODS\PRO0112.M (Chemstation Integrator)
Title : FL PRO
Last Update : Tue Feb 15 18:30:58 2000

Calibration Files
1 =01110002.D 2 =01110003.D 3 =01110004.D
4 =01110005.D 5 =01110006.D

	Compound	1	2	3	4	5	Avg	%RSD
1) HM	Petoleum Range Organi	7.877	4.945	4.535	4.304	4.096	5.151 E4	30.20
2) S	o-Terphenyl	4.224	4.110	4.284	4.166	4.080	4.173 E4	1.99
3) S	C(39)	3.812	3.865	4.008	3.932	3.595	3.843 E4	4.08

(#) = Out of Range

DATA ANALYSIS PARAMETERS

Method Name: C:\HPCHEM\1\METHODS\PRO0112.M

Percent Report Settings

Sort By: Signal

Output Destination
    Screen: No
    Printer: Yes
    File: No

Integration Events: AutoIntegrate

Generate Report During Run Method: No

Signal Correlation Window: 0.020

Quantitative Report Settings

Report Type: Summary

Output Destination
    Screen: No
    Printer: Yes
    File: No

Generate Report During Run Method: Yes

FL PRO
Calibration Last Updated: Wed Jan 19 16:55:15 2000

Reference Window: 2.00 Minutes
Non-Reference Window: 1.00 Minutes
Correlation Window: 0.10 minutes
Default Multiplier: 1.00
Default Sample Concentration: 0.00

Compound Information

---

1) Petoleum Range Organics ( )

Ret. Time 2.24 min., Extract & Integrate from 2.24 to 38.98 min.

Lvl	ID	Conc (ug/ml)	Response

1	850.000	66955603
2	2550.000	126103266
3	4250.000	192733054
4	5950.000	256078876
5	8500.000	348182889

Curve Fit: Linear

---

2) o-Terphenyl ( )

Ret. Time 23.51 min., Extract & Integrate from 23.39 to 23.63 min.

Lvl	ID	Conc (ug/ml)	Response
1		50.000	2112126
2		50.000	2055198
3		50.000	2142241
4		50.000	2083238
5		50.000	2039982

Curve Fit: Avg. RF

---

3) C(39) ( )

Ret. Time 35.42 min., Extract & Integrate from 35.24 to 35.60 min.

Lvl	ID	Conc (ug/ml)	Response
1		150.000	5718717
2		150.000	5797301
3		150.000	6012531
4		150.000	5897793
5		150.000	5392550

Curve Fit: Avg. RF

END OF DATA ANALYSIS PARAMETERS

Mon Feb 14 17:55:42 2000

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\011100\01110002.D Vial: 2
Acq On : 11 Jan 2000 8:32 pm Operator: MT
Sample : 850 PHS PRO STD Inst : DUAL FID
Misc : Multiplr: 1.00
IntFile : PRO0914.e
Quant Time: Jan 12 11:26 2000 Quant Results File: PRO0112.RES

Quant Method : C:\HPCHEM\1\METHODS\PRO0112.M (Chemstation Integrator)
Title : FL PRO
Last Update : Wed Jan 12 11:25:38 2000
Response via : Initial Calibration
DataAcq Meth : FLPRO.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc	Units
System Monitoring Compounds				
2) S o-Terphenyl	23.51	2112126	NoCal	ug/mlm
Spiked Amount 50.000	Recovery = 0.00%			
3) S C(39)	35.42	5718717	NoCal	ug/mlm
Spiked Amount 150.000	Recovery = 0.00%			
Target Compounds				
1) HM Petoleum Range Organics	2.24	66955603	N.D.	ug/ml

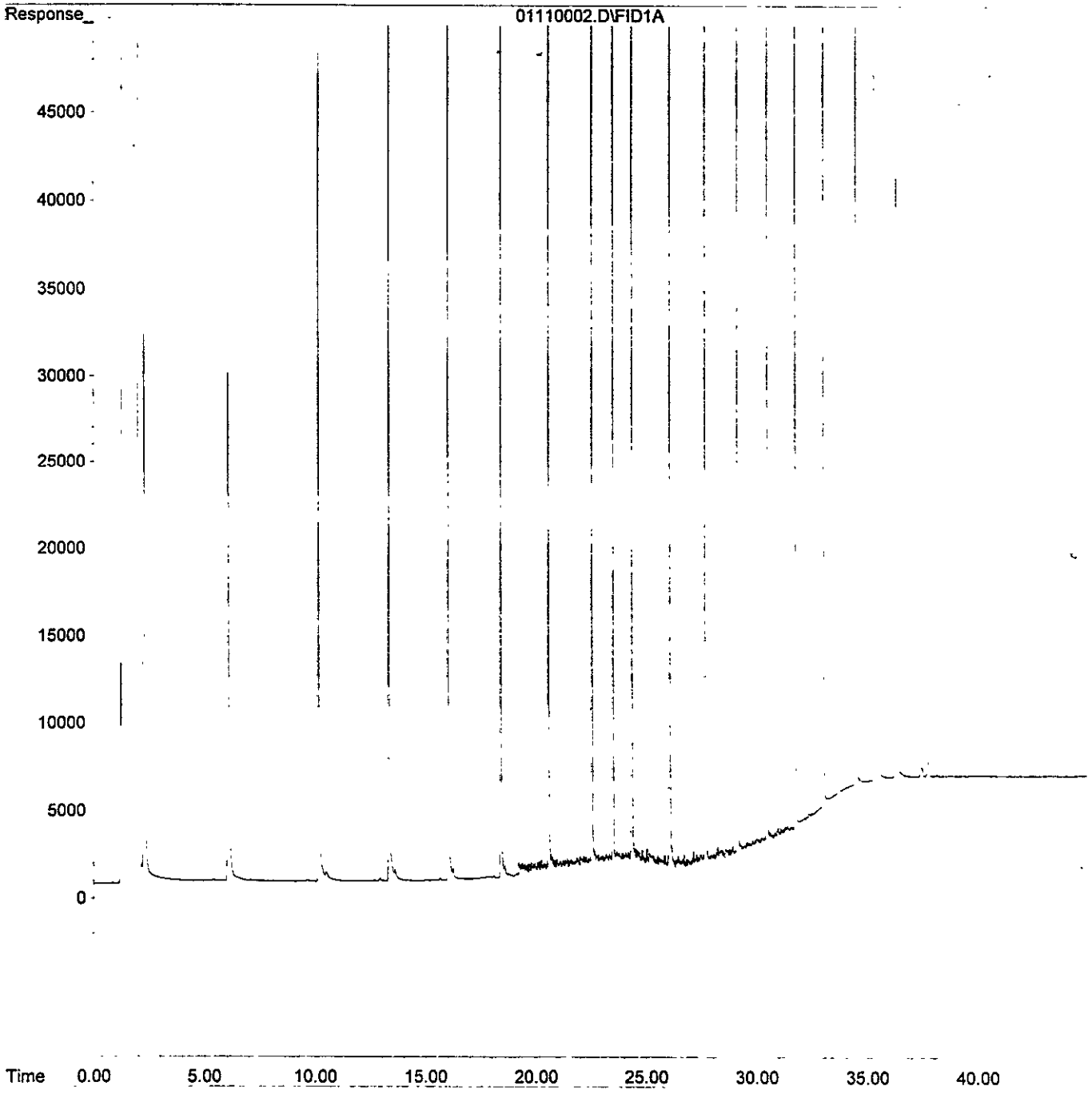
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\1\DATA\011100\01110002.D Vial: 2
Acq On : 11 Jan 2000 8:32 pm Operator: MT
Sample : 850 PHS PRO STD Inst : DUAL FID
Misc : Multiplr: 1.00
IntFile : PRO0914.e
Quant Time: Jan 12 11:26 2000 Quant Results File: PRO0112.RES

Quant Method : C:\HPCHEM\1\METHODS\PRO0112.M (Chemstation Integrator)
Title : FL PRO
Last Update : Wed Jan 12 11:25:38 2000
Response via : Multiple Level Calibration
DataAcq Meth : FLPRO.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\011100\01110003.D Vial: 3
Acq On : 11 Jan 2000 9:26 pm Operator: MT
Sample : 2550 PHS PRO STD Inst : DUAL FID
Misc : Multiplr: 1.00
IntFile : PRO0914.e
Quant Time: Jan 12 11:27 2000 Quant Results File: PRO0112.RES

Quant Method : C:\HPCHEM\1\METHODS\PRO0112.M (Chemstation Integrator)
Title : FL PRO
Last Update : Wed Jan 12 11:25:38 2000
Response via : Initial Calibration
DataAcq Meth : FLPRO.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) S o-Terphenyl	23.51	2055198	48.652 ug/mlm
Spiked Amount 50.000	Recovery = 97.30%		
3) S C(39)	35.42	5797301	152.061 ug/mlm
Spiked Amount 150.000	Recovery = 101.37%		
Target Compounds			
1) HM Petoleum Range Organics	2.24	126103266	N.D. ug/ml

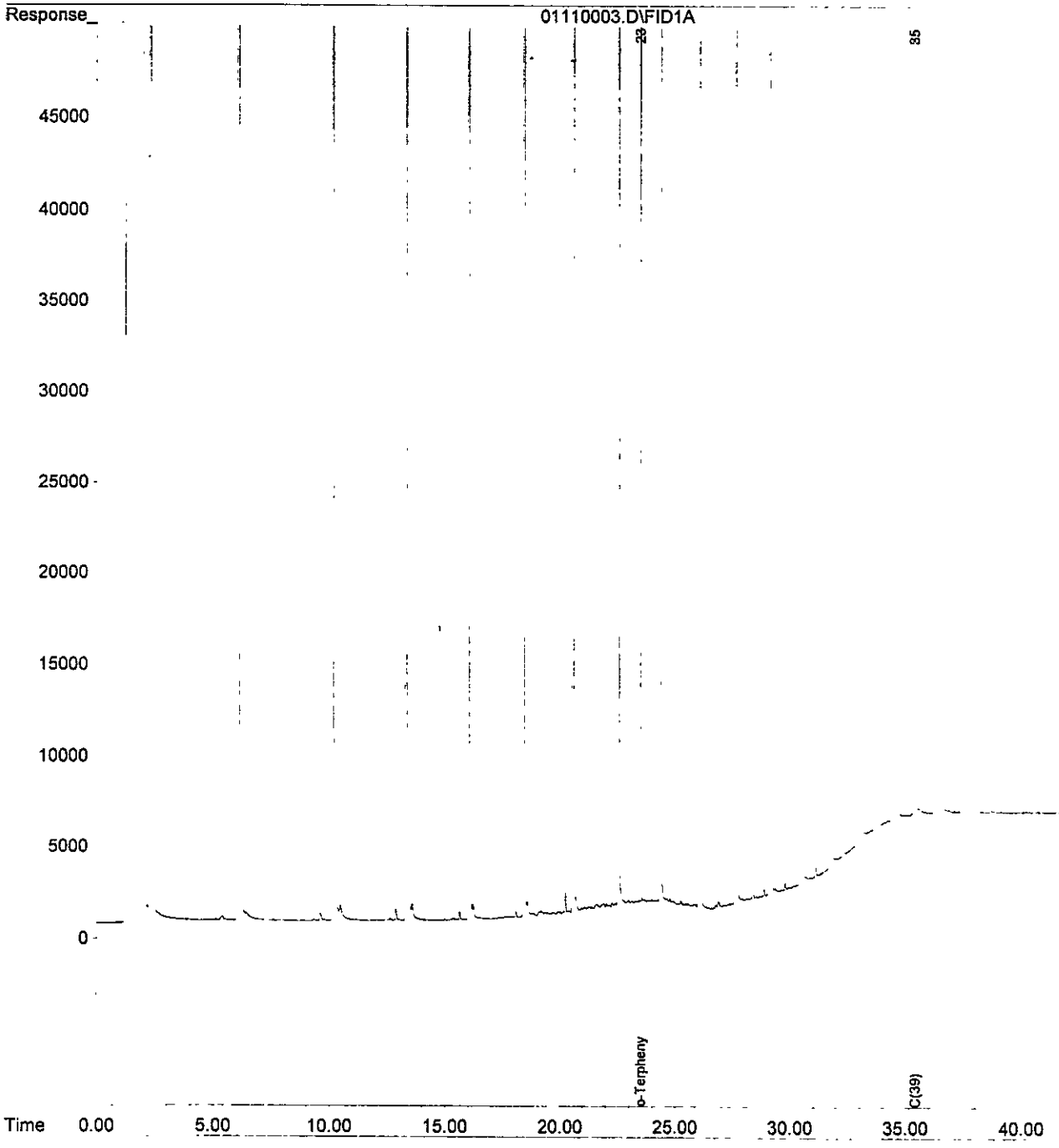
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\1\DATA\011100\01110003.D Vial: 3
Acq On : 11 Jan 2000 9:26 pm Operator: MT
Sample : 2550 PHS PRO STD Inst : DUAL FID
Misc : Multiplr: 1.00
IntFile : PRO0914.e
Quant Time: Jan 12 11:27 2000 Quant Results File: PRO0112.RES

Quant Method : C:\HPCHEM\1\METHODS\PRO0112.M (Chemstation Integrator)
Title : FL PRO
Last Update : Wed Jan 12 11:25:38 2000
Response via : Multiple Level Calibration
DataAcq Meth : FLPRO.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\011100\01110004.D Vial: 4
Acq On : 11 Jan 2000 10:20 pm Operator: MT
Sample : 4250 PHS PRO STD Inst : DUAL FID
Misc : Multiplr: 1.00
IntFile : PRO0914.e
Quant Time: Jan 12 11:28 2000 Quant Results File: PRO0112.RES

Quant Method : C:\HPCHEM\1\METHODS\PRO0112.M (Chemstation Integrator)
Title : FL PRO
Last Update : Wed Jan 12 11:25:38 2000
Response via : Initial Calibration
DataAcq Meth : FLPRO.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc	Units
System Monitoring Compounds				
2) S o-Terphenyl	23.51	2142241	NoCal	ug/mlm
Spiked Amount 50.000	Recovery = 0.00%			
3) S C(39)	35.42	6012531	NoCal	ug/mlm
Spiked Amount 150.000	Recovery = 0.00%			
Target Compounds				
1) HM Petoleum Range Organics	2.24	192733054	N.D.	ug/ml

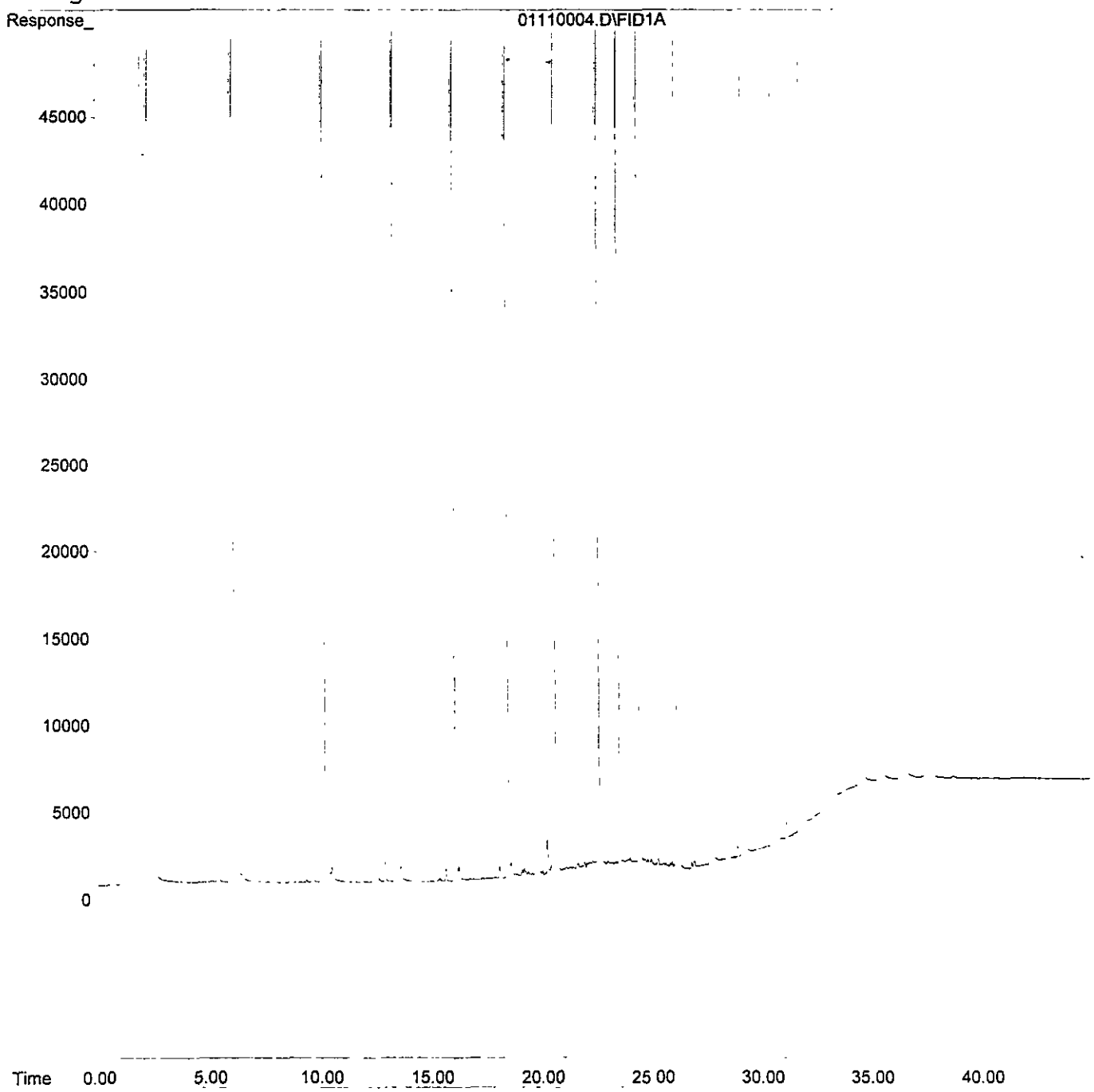
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\1\DATA\011100\01110004.D Vial: 4
Acq On : 11 Jan 2000 10:20 pm Operator: MT
Sample : 4250 PHS PRO STD Inst : DUAL FID
Misc : Multiplr: 1.00
IntFile : PRO0914.e
Quant Time: Jan 12 11:28 2000 Quant Results File: PRO0112.RES

Quant Method : C:\HPCHEM\1\METHODS\PRO0112.M (Chemstation Integrator)
Title : FL PRO
Last Update : Wed Jan 12 11:25:38 2000
Response via : Multiple Level Calibration
DataAcq Meth : FLPRO.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\011100\01110005.D Vial: 5
Acq On : 11 Jan 2000 11:14 pm Operator: MT
Sample : 5950 PHS PRO STD Inst : DUAL FID
Misc : Multiplr: 1.00
IntFile : PRO0914.e
Quant Time: Jan 12 11:29 2000 Quant Results File: PRO0112.RES

Quant Method : C:\HPCHEM\1\METHODS\PRO0112.M (Chemstation Integrator)
Title : FL PRO
Last Update : Wed Jan 12 11:25:38 2000
Response via : Initial Calibration
DataAcq Meth : FLPRO.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc	Units
System Monitoring Compounds				
2) S o-Terphenyl	23.51	2083238	NoCal	ug/mlm
Spiked Amount 50.000	Recovery = 0.00%			
3) S C(39)	35.42	5897793	NoCal	ug/mlm
Spiked Amount 150.000	Recovery = 0.00%			
Target Compounds				
1) HM Petoleum Range Organics	2.24	256078876	N.D.	ug/ml

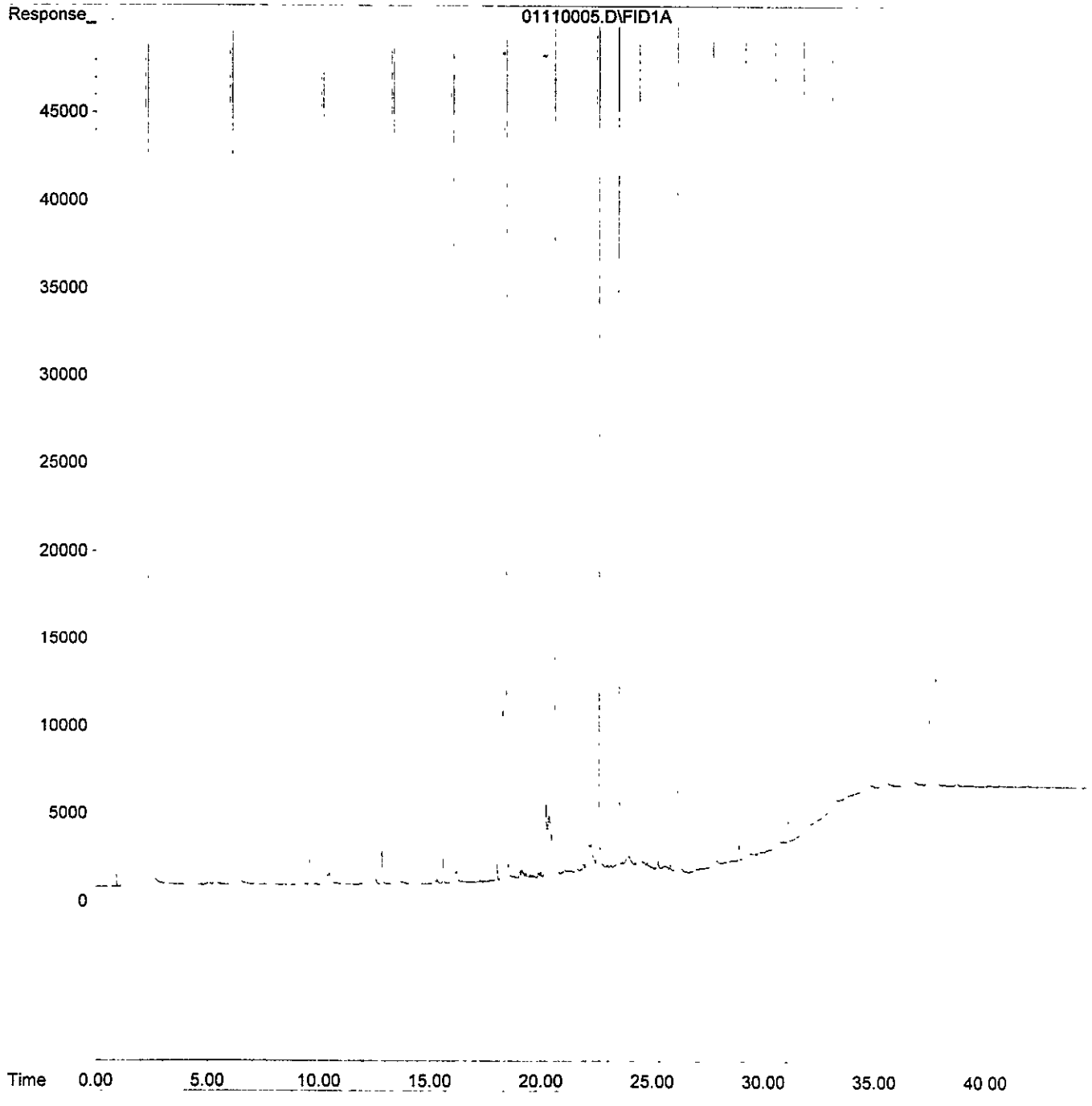
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\1\DATA\011100\01110005.D Vial: 5
Acq On : 11 Jan 2000 11:14 pm Operator: MT
Sample : 5950 PHS PRO STD Inst : DUAL FID
Misc : Multiplr: 1.00
IntFile : PRO0914.e
Quant Time: Jan 12 11:29 2000 Quant Results File: PRO0112.RES

Quant Method : C:\HPCHEM\1\METHODS\PRO0112.M (Chemstation Integrator)
Title : FL PRO
Last Update : Wed Jan 12 11:25:38 2000
Response via : Multiple Level Calibration
DataAcq Meth : FLPRO.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\011100\01110006.D Vial: 6
Acq On : 12 Jan 2000 12:07 am Operator: MT
Sample : 8500 PHS PRO STD Inst : DUAL FID
Misc : Multiplr: 1.00
IntFile : PRO0914.e
Quant Time: Jan 12 11:30 2000 Quant Results File: PRO0112.RES

Quant Method : C:\HPCHEM\1\METHODS\PRO0112.M (Chemstation Integrator)
Title : FL PRO
Last Update : Wed Jan 12 11:25:38 2000
Response via : Initial Calibration
DataAcq Meth : FLPRO.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc	Units
System Monitoring Compounds				
2) S o-Terphenyl	23.51	2039982	NoCal	ug/mlm
Spiked Amount 50.000	Recovery = 0.00%			
3) S C(39)	35.42	5392550	NoCal	ug/mlm
Spiked Amount 150.000	Recovery = 0.00%			
Target Compounds				
1) HM Petoleum Range Organics	2.24	348182889	N.D.	ug/ml

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

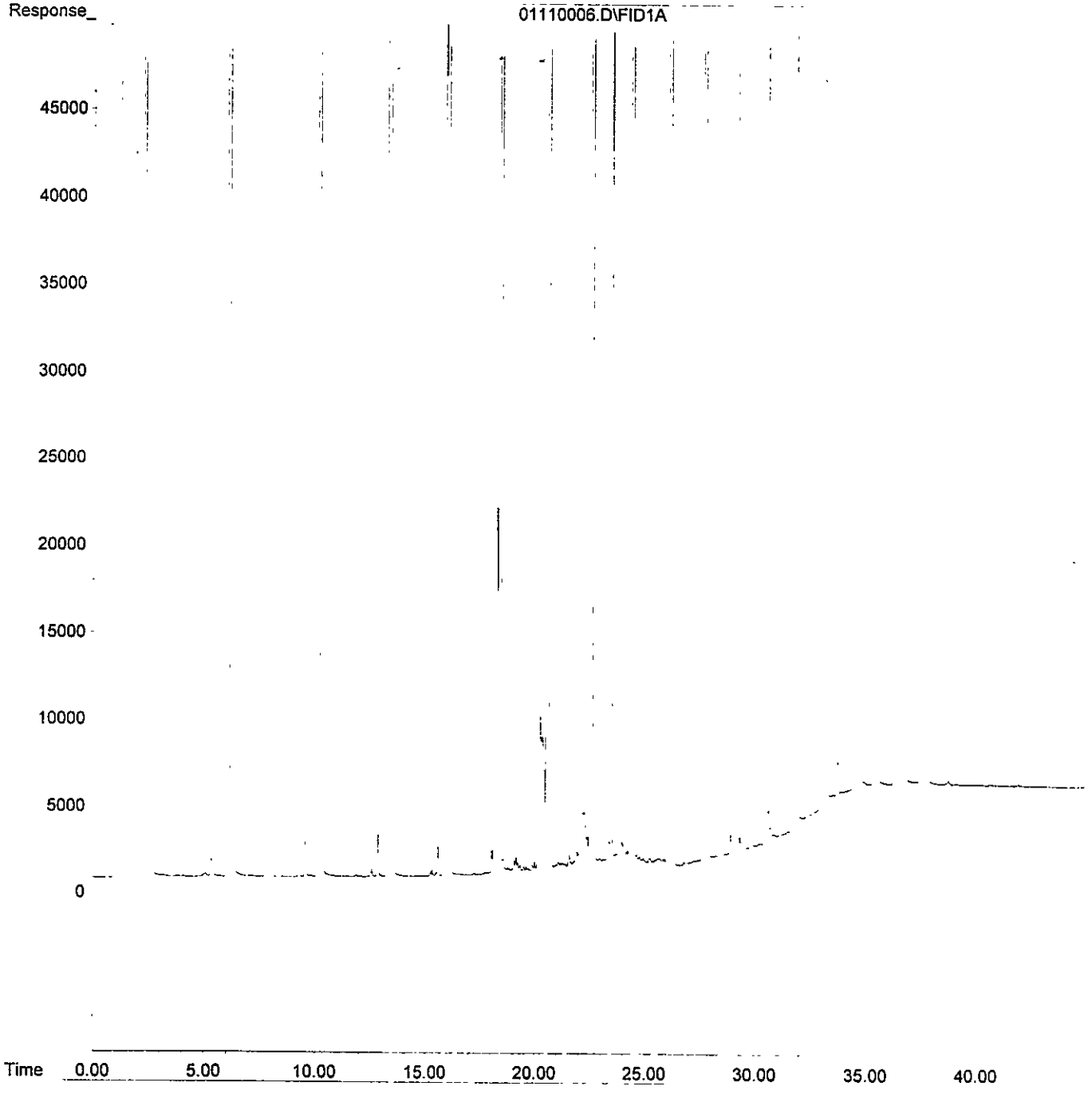
Quantitation Report

Data File : C:\HPCHEM\1\DATA\011100\01110006.D
Acq On : 12 Jan 2000 12:07 am
Sample : 8500 PHS PRO STD
Misc :
IntFile : PRO0914.e
Quant Time: Jan 12 11:30 2000 Quant Results File: PRO0112.RES

Vial: 6
Operator: MT
Inst : DUAL FID
Multiplr: 1.00

Quant Method : C:\HPCHEM\1\METHODS\PRO0112.M (Chemstation Integrator)
Title : FL PRO
Last Update : Wed Jan 12 11:25:38 2000
Response via : Multiple Level Calibration
DataAcq Meth : FLPRO.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\011800\01180002.D Vial: 2
Acq On : 18 Jan 2000 10:28 pm Operator: MT
Sample : 4250 PHS PRO ICVS Inst : DUAL FID
Misc : Multiplr: 1.00
IntFile : PRO0914.e
Quant Time: Jan 19 16:59 2000 Quant Results File: PRO0112A.RES

Quant Method : C:\HPCHEM\1\METHODS\PRO0112A.M (Chemstation Integrator)
Title : FL PRO
Last Update : Wed Jan 19 16:55:15 2000
Response via : Initial Calibration
DataAcq Meth : FLPRO.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) S o-Terphenyl	23.51	2139266	51.263 ug/mlm
Spiked Amount 50.000		Recovery =	102.53% MT
3) S C(39)	35.46	5994978	156.017 ug/mlm
Spiked Amount 150.000		Recovery =	104.01% MT
Target Compounds			
1) HM Petoleum Range Organics	2.24	207204097	4668.425 ug/ml

110% MT

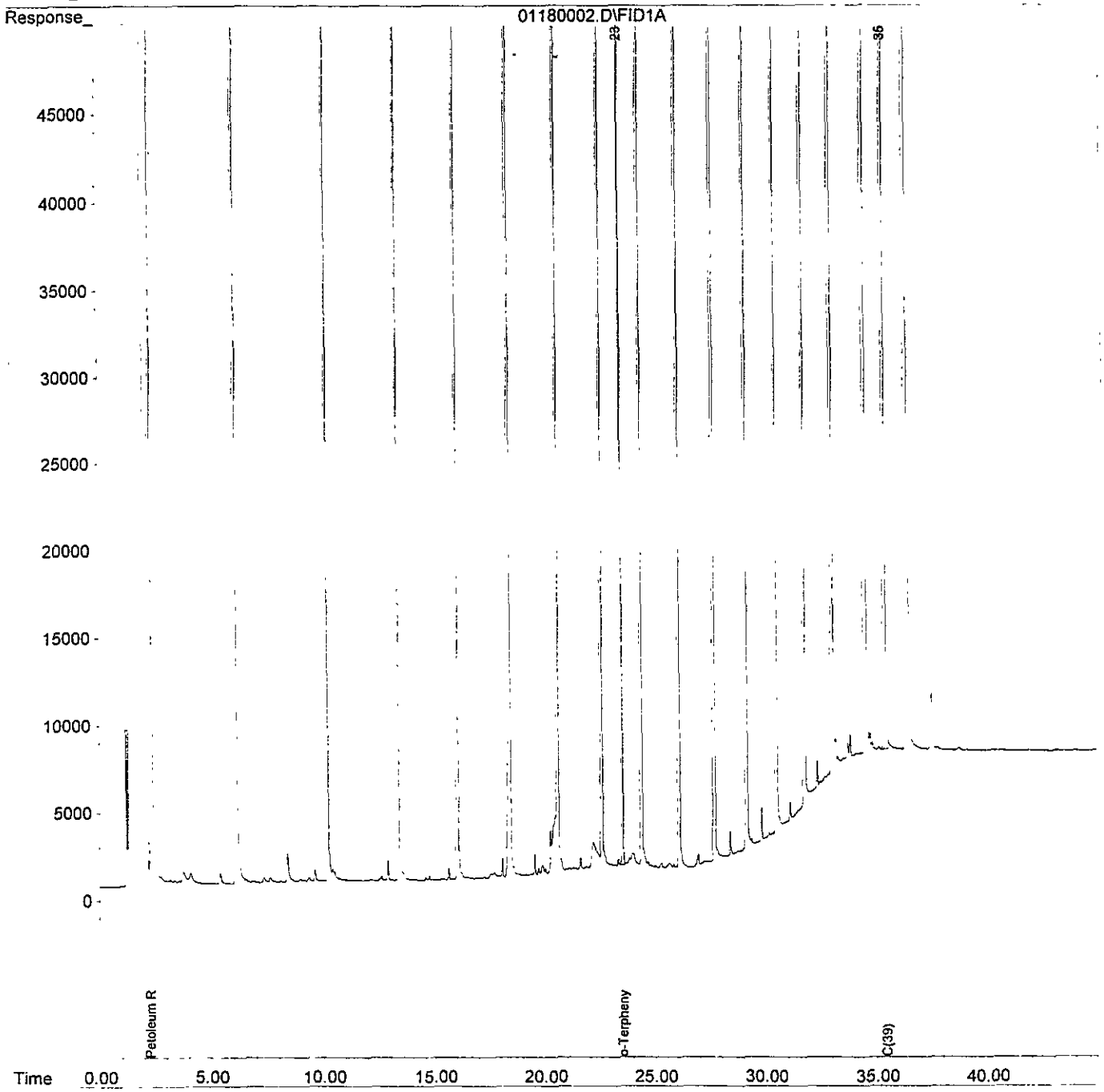
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\1\DATA\011800\01180002.D Vial: 2
Acq On : 18 Jan 2000 10:28 pm Operator: MT
Sample : 4250 PHS PRO ICVS Inst : DUAL FID
Misc : Multiplr: 1.00
IntFile : PRO0914.e
Quant Time: Jan 19 16:59 2000 Quant Results File: PRO0112A.RES

Quant Method : C:\HPCHEM\1\METHODS\PRO0112A.M (Chemstation Integrator)
Title : FL PRO
Last Update : Wed Jan 19 16:55:15 2000
Response via : Multiple Level Calibration
DataAcq Meth : FLPRO.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\012100\01210003.D Vial: 3
Acq On : 21 Jan 2000 2:23 pm Operator: MT
Sample : 4250 PHS PRO CCV Inst : DUAL FID
Misc : Multiplr: 1.00
IntFile : PRO0914.e
Quant Time: Jan 21 15:12 2000 Quant Results File: PRO0112.RES

Quant Method : C:\HPCHEM\1\METHODS\PRO0112.M (Chemstation Integrator)
Title : FL PRO
Last Update : Wed Jan 19 16:55:15 2000
Response via : Initial Calibration
DataAcq Meth : PRO0112.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) S o-Terphenyl	23.48	1843407	44.173 ug/mlm
Spiked Amount 50.000	Recovery =		88.35% ✓ MT
3) S C(39)	35.40	5288241	137.624 ug/mlm
Spiked Amount 150.000	Recovery =		91.75% ✓ MT
Target Compounds			
1) HM Petoleum Range Organics	2.24	175863829	3821.541 ug/ml

90% ✓
MT

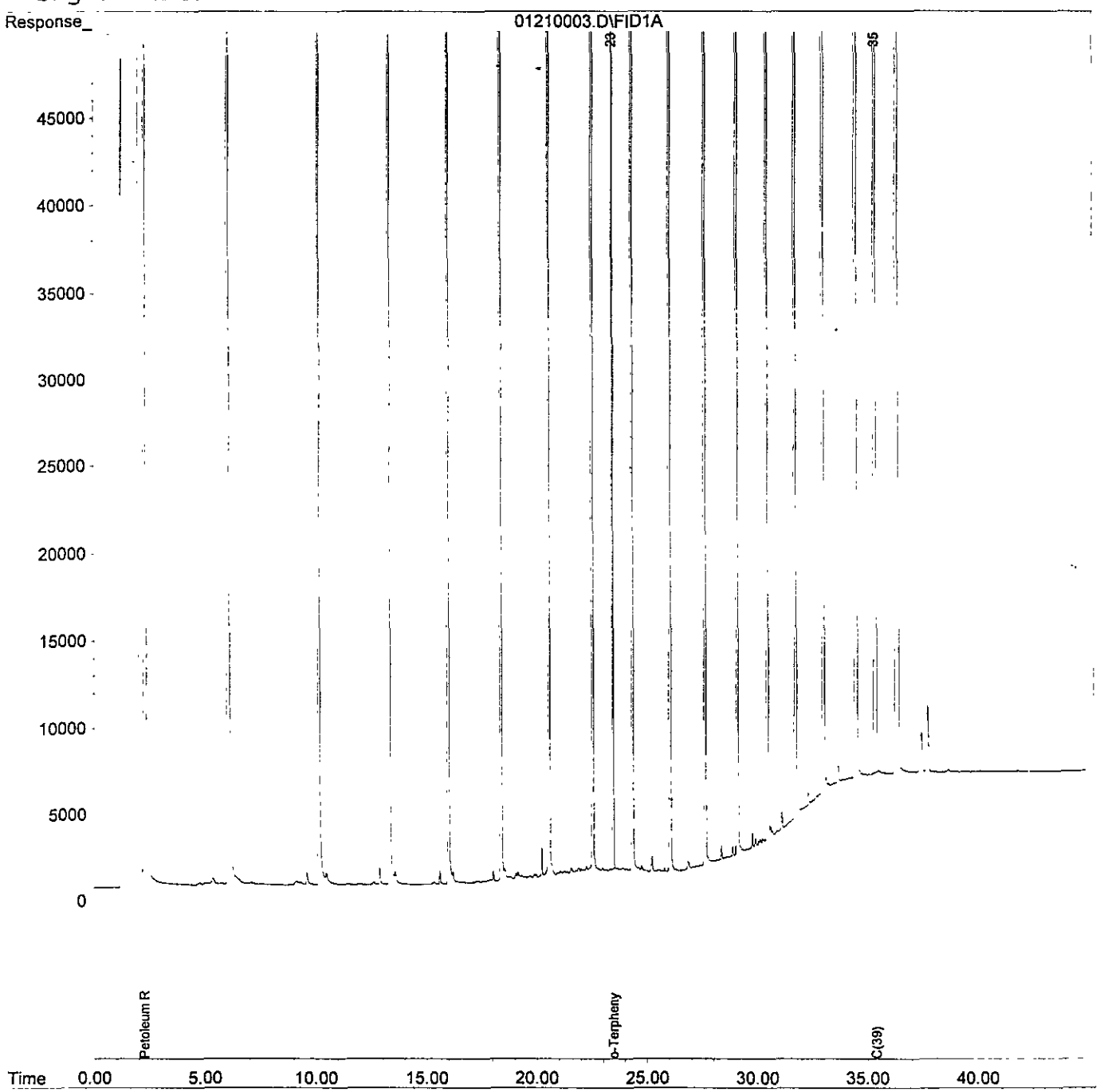
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\1\DATA\012100\01210003.D Vial: 3
Acq On : 21 Jan 2000 2:23 pm Operator: MT
Sample : 4250 PHS PRO CCV Inst : DUAL FID
Misc : Multiplr: 1.00
IntFile : PRO0914.e
Quant Time: Jan 21 15:12 2000 Quant Results File: PRO0112.RES

Quant Method : C:\HPCHEM\1\METHODS\PRO0112.M (Chemstation Integrator)
Title : FL PRO
Last Update : Wed Jan 19 16:55:15 2000
Response via : Multiple Level Calibration
DataAcq Meth : PRO0112.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\012100\01210002.D Vial: 2
Acq On : 21 Jan 2000 11:12 am Operator: MT
Sample : 4250 PHS PRO ICVS Inst : DUAL FID
Misc : Multiplr: 1.00
IntFile : PRO0914.e
Quant Time: Jan 21 13:16 2000 Quant Results File: PRO0112.RES

Quant Method : C:\HPCHEM\1\METHODS\PRO0112.M (Chemstation Integrator)
Title : FL PRO
Last Update : Wed Jan 19 16:55:15 2000
Response via : Initial Calibration
DataAcq Meth : PRO0112.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) S o-Terphenyl	23.48	2192534	52.540 ug/mlm
Spiked Amount 50.000	Recovery =		105.08% ✓MT
3) S C(39)	35.41	5852896	152.319 ug/mlm
Spiked Amount 150.000	Recovery =		101.55% ✓MT
Target Compounds			
1) HM Petoleum Range Organics	2.24	203131792	4558.382 ug/ml

107% /
MT

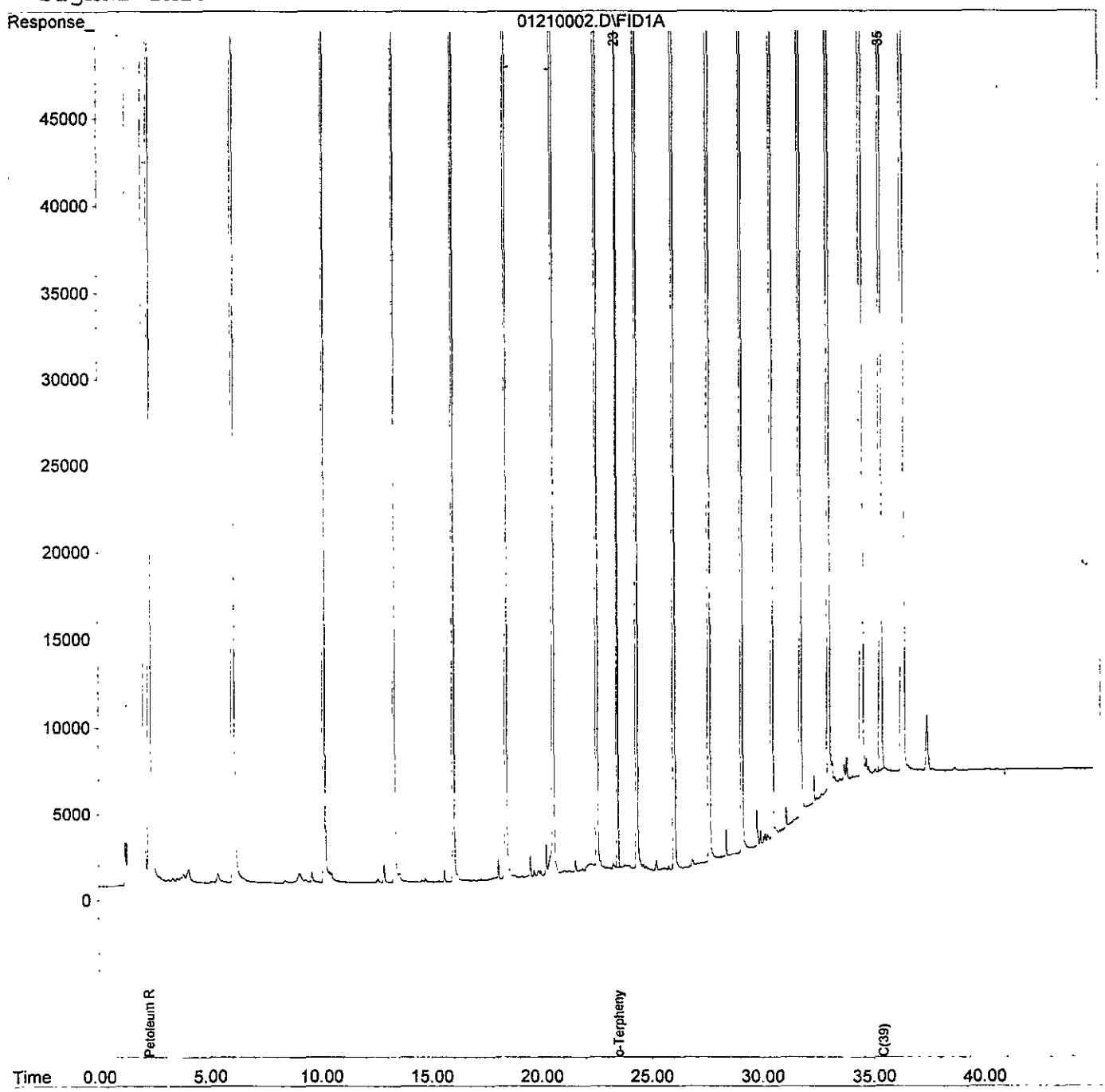
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\1\DATA\012100\01210002.D Vial: 2
Acq On : 21 Jan 2000 11:12 am Operator: MT
Sample : 4250 PHS PRO ICVS Inst : DUAL FID
Misc : Multiplr: 1.00
IntFile : PRO0914.e
Quant Time: Jan 21 13:16 2000 Quant Results File: PRO0112.RES

Quant Method : C:\HPCHEM\1\METHODS\PRO0112.M (Chemstation Integrator)
Title : FL PRO
Last Update : Wed Jan 19 16:55:15 2000
Response via : Multiple Level Calibration
DataAcq Meth : PRO0112.M

Volume Inj. :
Signal Phase :
Signal Info :



ACCURA ANALYTICAL LABORATORIES

EXTRACTION LOG

FL-PRO

ANALYSIS: (DRO) / PAH

DATE/TIME: 3/26/00 | 8:00 a.m.

MATRIX: WATER

ANALYST: DL

EXT. METHOD: 3510 / 3520

INSTRUMENT: GC-FID / GC-MSD

AAL I.D.	SAMPLE VOLUME	pH	SURR 1.0ML	SPIKE 1.0ML	FINAL VOLUME	COMMENTS
Blank	1L		DK		1.0 mL	
LCS				DK		
89497						
89498						
89499						
89500						
89501						
89502						
89503						
89504						
89505						
89506						
89507						
89508						
89509						
89510						
89511	↓		↓		↓	

3/27/00 DL 10:15 a.m.

START TIME: 9:30 a.m. STOP TIME: 10:30 a.m. SOLVENT ID #: EX00016

SURROGATE I.D.: D00E029 FL00E022 CONC.: 50 ppm 150 ppm INITAL: DL

SPIKE I.D.: FL00E028 CONC.: 250 ppm INITIAL: DL

SPIKE I.D.: - CONC.: - INITIAL: -

EXTRACT STORAGE: REFRIG.# 5, BOX #: D-145 RapidVap TEMP.: 45°C

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\033000\03300014.D Vial: 5
Acq On : 31 Mar 2000 12:50 am Operator: MT
Sample : AB89497 Inst : DUAL FID
Misc : 23975 1000ml Multiplr: 1.00
IntFile : PRO0914.e
Quant Time: Mar 31 11:28 2000 Quant Results File: PRO0112.RES

Quant Method : C:\HPCHEM\1\METHODS\PRO0112.M (Chemstation Integrator)
Title : FL PRO
Last Update : Thu Mar 09 14:46:05 2000
Response via : Initial Calibration
DataAcq Meth : PRO0112.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) SC o-Terphenyl	23.35	941979	22.573 ug/mlm
Spiked Amount 50.000	Recovery =		45.15% X MT
3) SC C(39)	35.26	2886348	75.116 ug/mlm
Spiked Amount 150.000	Recovery =		50.08% ✓ MT
Target Compounds			
1) HM Petoleum Range Organics	2.15	49831286	415.861 ug/ml /1000ml = 0.425 ppm MT

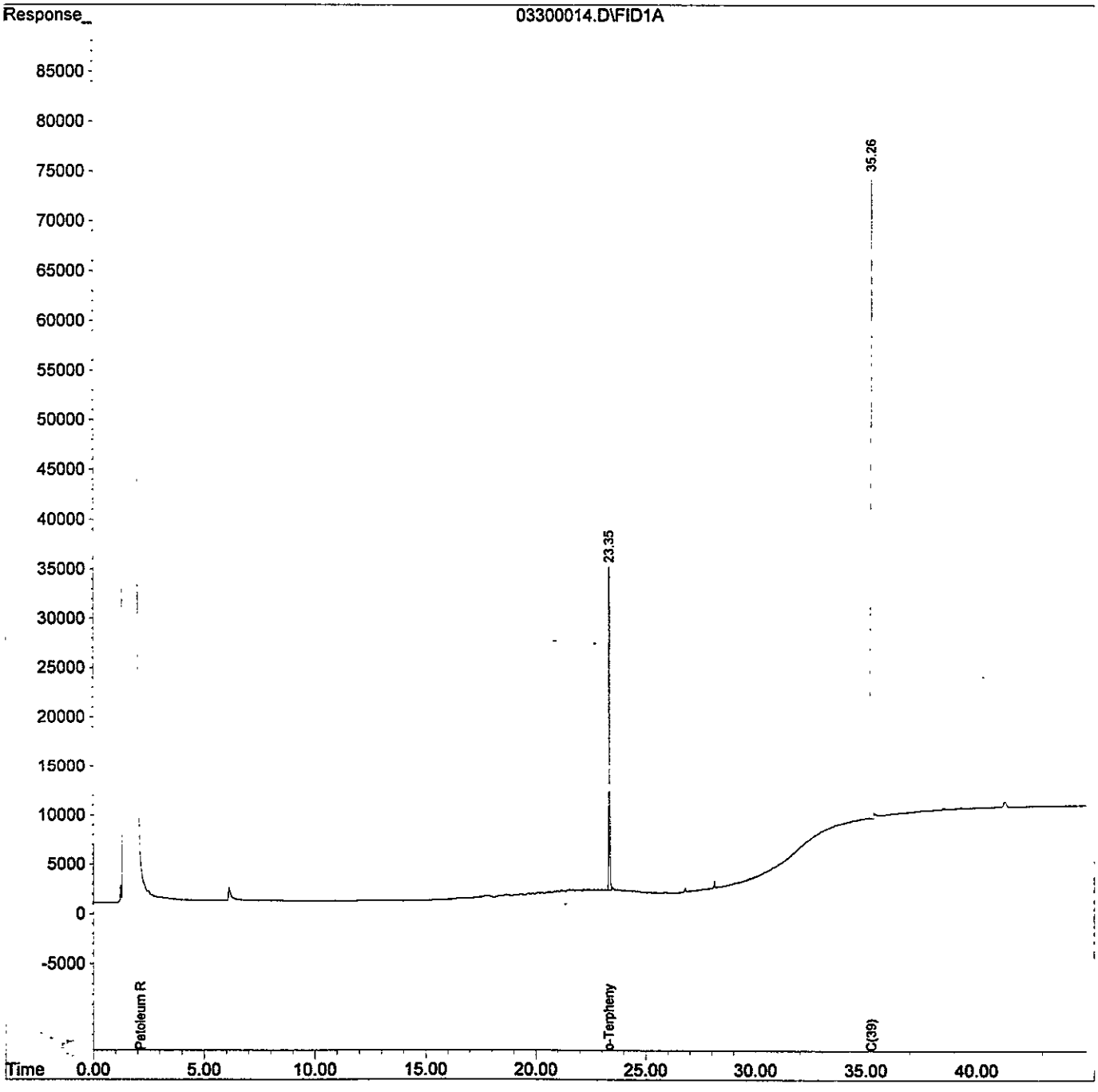
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\1\DATA\033000\03300014.D Vial: 5
Acq On : 31 Mar 2000 12:50 am Operator: MT
Sample : AB89497 Inst : DUAL FID
Misc : 23975 1000ml Multiplr: 1.00
IntFile : PRO0914.e
Quant Time: Mar 31 11:28 2000 Quant Results File: PRO0112.RES

Quant Method : C:\HPCHEM\1\METHODS\PRO0112.M (Chemstation Integrator)
Title : FL PRO
Last Update : Thu Mar 09 14:46:05 2000
Response via : Multiple Level Calibration
DataAcq Meth : PRO0112.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\033000\03300015.D Vial: 6
Acq On : 31 Mar 2000 1:44 am Operator: MT
Sample : AB89498 Inst : DUAL FID
Misc : 23975 1000ml Multiplr: 1.00
IntFile : PRO0914.e
Quant Time: Mar 31 11:28 2000 Quant Results File: PRO0112.RES

Quant Method : C:\HPCHEM\1\METHODS\PRO0112.M (Chemstation Integrator)
Title : FL PRO
Last Update : Thu Mar 09 14:46:05 2000
Response via : Initial Calibration
DataAcq Meth : PRO0112.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) SC o-Terphenyl	23.35	881469	21.123 ug/mlm
Spiked Amount 50.000	Recovery =		42.25% x MT
3) SC C(39)	35.24	1777076	46.248 ug/mlm
Spiked Amount 150.000	Recovery =		30.83% x MT
Target Compounds			
1) HM Petoleum Range Organics	2.15	46646999	329.814 ug/ml / 1000ml = 0.33J ppm MT

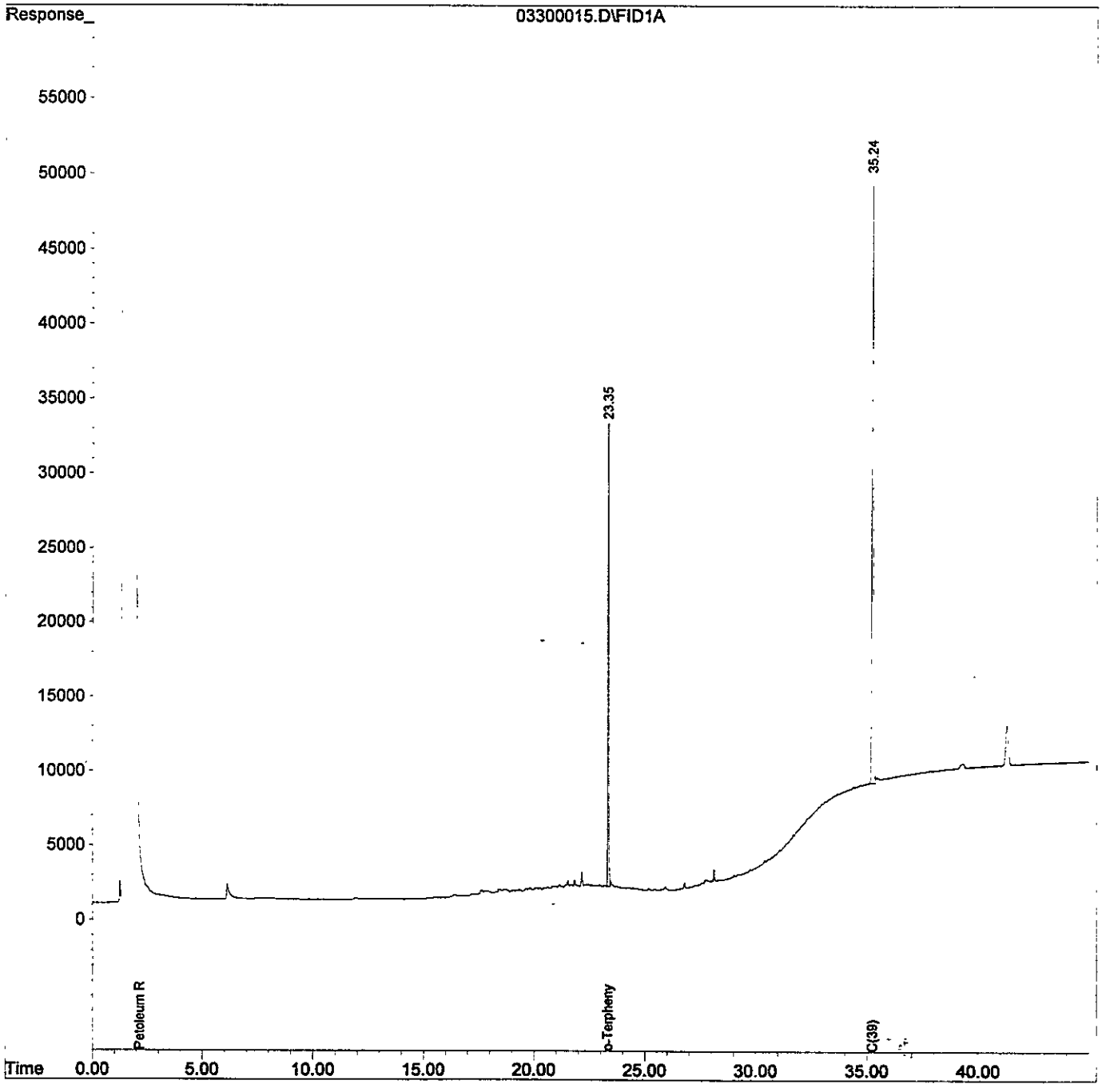
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\1\DATA\033000\03300015.D Vial: 6
Acq On : 31 Mar 2000 1:44 am Operator: MT
Sample : AB89498 Inst : DUAL FID
Misc : 23975 1000ml Multiplr: 1.00
IntFile : PRO0914.e
Quant Time: Mar 31 11:28 2000 Quant Results File: PRO0112.RES

Quant Method : C:\HPCHEM\1\METHODS\PRO0112.M (Chemstation Integrator)
Title : FL PRO
Last Update : Thu Mar 09 14:46:05 2000
Response via : Multiple Level Calibration
DataAcq Meth : PRO0112.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\033000\03300016.D Vial: 7
Acq On : 31 Mar 2000 2:37 am Operator: MT
Sample : AB89499 Inst : DUAL FID
Misc : 23975 1000ml Multiplr: 1.00
IntFile : PRO0914.e
Quant Time: Mar 31 11:29 2000 Quant Results File: PRO0112.RES

Quant Method : C:\HPCHEM\1\METHODS\PRO0112.M (Chemstation Integrator)
Title : FL PRO
Last Update : Thu Mar 09 14:46:05 2000
Response via : Initial Calibration
DataAcq Meth : PRO0112.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) SC o-Terphenyl	23.35	604372	14.483 ug/mlm
Spiked Amount 50.000	Recovery =		28.97% NT
3) SC C(39)	35.26	3117044	81.120 ug/mlm
Spiked Amount 150.000	Recovery =		54.08% NT
Target Compounds			
1) HM Petoleum Range Organics	2.15	89515789	1488.225 ug/ml /1000ml

1.5 ppm
NT

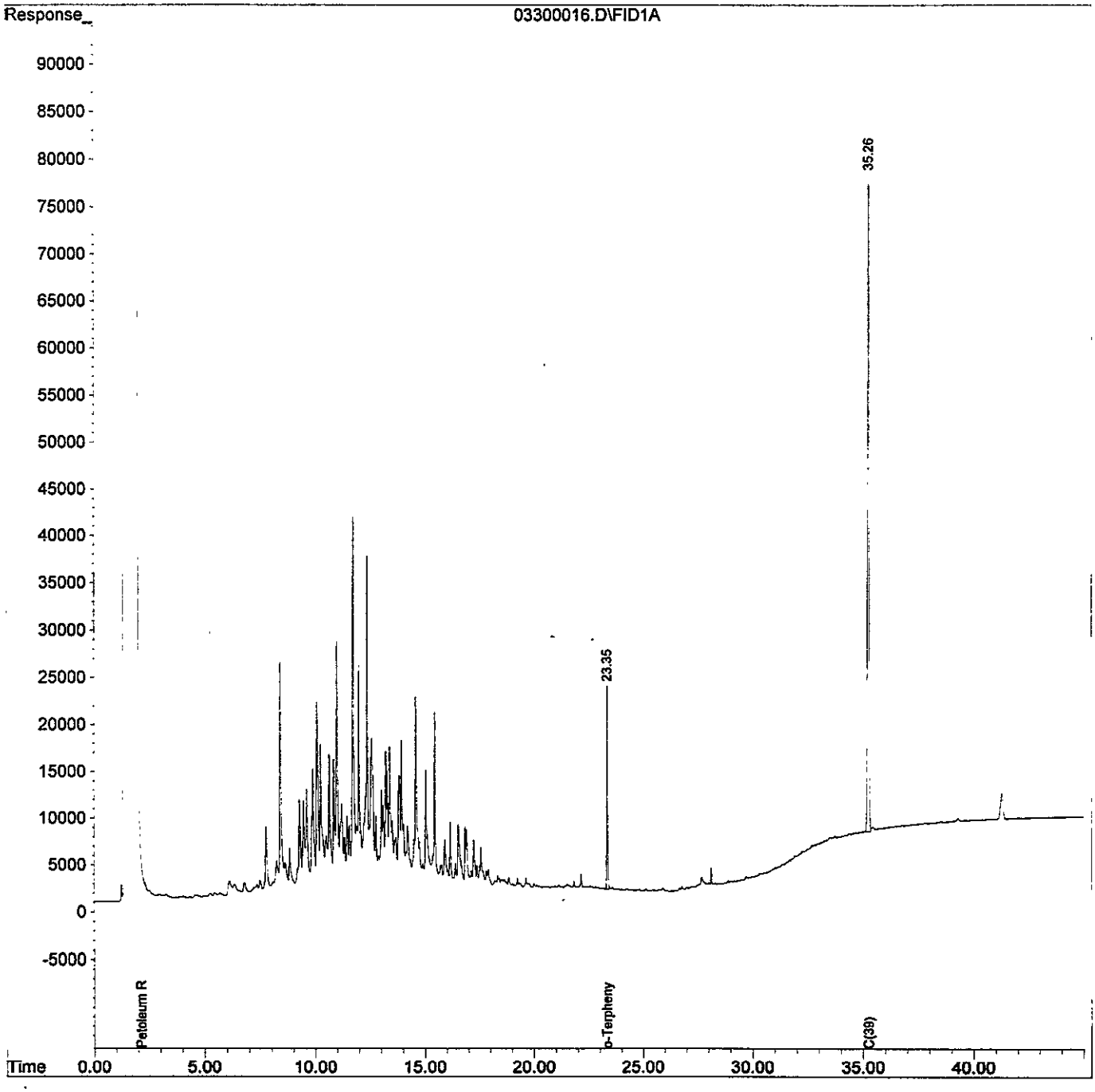
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\1\DATA\033000\03300016.D Vial: 7
Acq On : 31 Mar 2000 2:37 am Operator: MT
Sample : AB89499 Inst : DUAL FID
Misc : 23975 1000ml Multiplr: 1.00
IntFile : PRO0914.e
Quant Time: Mar 31 11:29 2000 Quant Results File: PRO0112.RES

Quant Method : C:\HPCHEM\1\METHODS\PRO0112.M (Chemstation Integrator)
Title : FL PRO
Last Update : Thu Mar 09 14:46:05 2000
Response via : Multiple Level Calibration
DataAcq Meth : PRO0112.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\033000\03300017.D Vial: 8
Acq On : 31 Mar 2000 3:31 am Operator: MT
Sample : AB89500 Inst : DUAL FID
Misc : 23975 1000ml Multiplr: 1.00
IntFile : PRO0914.e
Quant Time: Mar 31 11:30 2000 Quant Results File: PRO0112.RES

Quant Method : C:\HPCHEM\1\METHODS\PRO0112.M (Chemstation Integrator)
Title : FL PRO
Last Update : Thu Mar 09 14:46:05 2000
Response via : Initial Calibration
DataAcq Meth : PRO0112.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) SC o-Terphenyl	23.34	722355	17.310 ug/mlm
Spiked Amount 50.000	Recovery =		34.62% x MT
3) SC C(39)	35.25	2167287	56.403 ug/mlm
Spiked Amount 150.000	Recovery =		37.60% x MT
Target Compounds			
1) HM Petoleum Range Organics	2.15	351045714	8555.346 ug/ml /1000ml = 8.6ppm MT

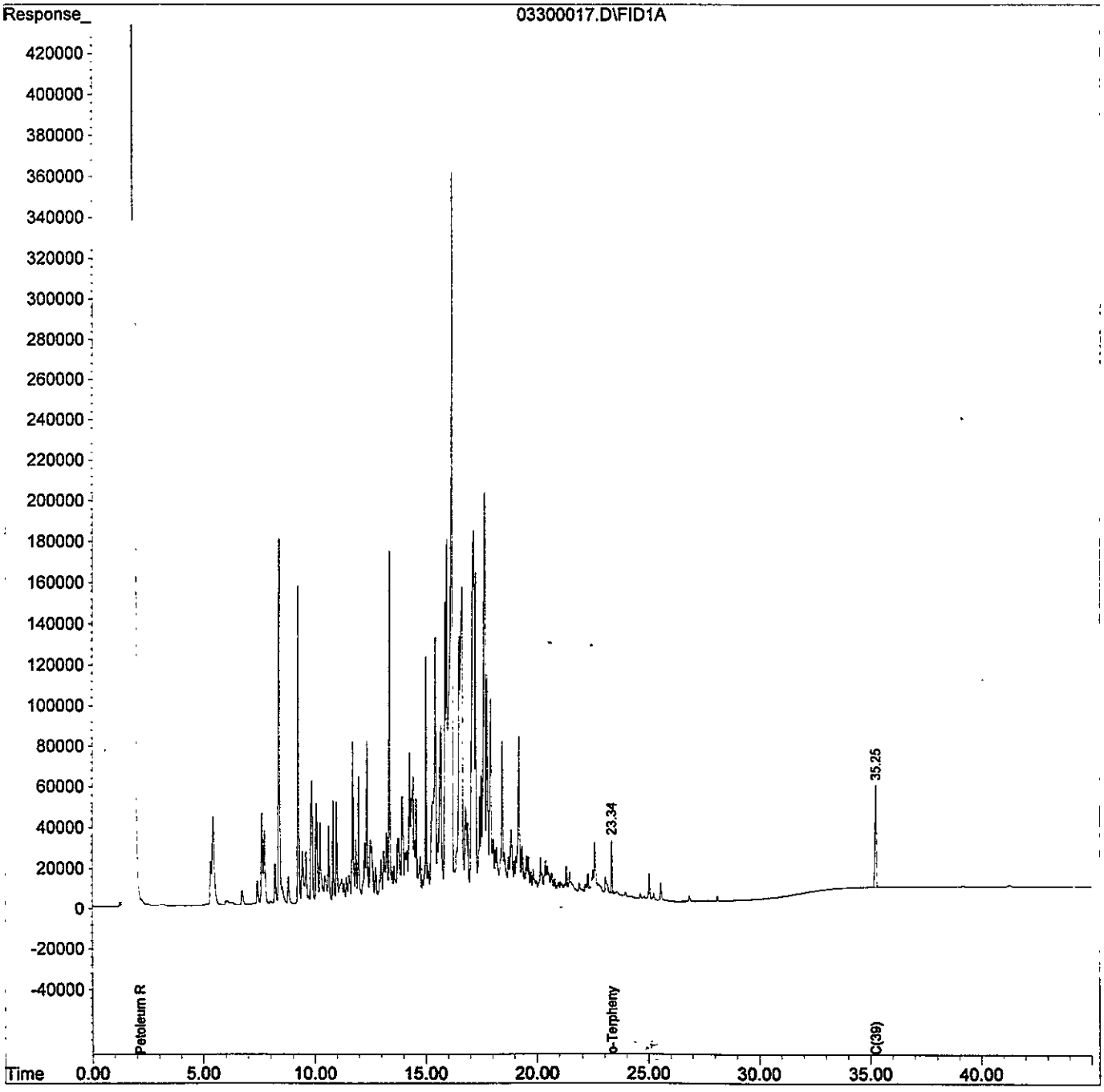
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\1\DATA\033000\03300017.D Vial: 8
Acq On : 31 Mar 2000 3:31 am Operator: MT
Sample : AB89500 Inst : DUAL FID
Misc : 23975 1000ml Multiplr: 1.00
IntFile : PRO0914.e
Quant Time: Mar 31 11:30 2000 Quant Results File: PRO0112.RES

Quant Method : C:\HPCHEM\1\METHODS\PRO0112.M (Chemstation Integrator)
Title : FL PRO
Last Update : Thu Mar 09 14:46:05 2000
Response via : Multiple Level Calibration
DataAcq Meth : PRO0112.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\033000\03300018.D Vial: 9
Acq On : 31 Mar 2000 4:24 am Operator: MT
Sample : AB89501 5X Inst : DUAL FID
Misc : 23975 1000ml Multiplr: 1.00
IntFile : PRO0914.e
Quant Time: Mar 31 11:40 2000 Quant Results File: PRO0112.RES

Quant Method : C:\HPCHEM\1\METHODS\PRO0112.M (Chemstation Integrator)
Title : FL PRO
Last Update : Thu Mar 09 14:46:05 2000
Response via : Initial Calibration
DataAcq Meth : PRO0112.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) SC o-Terphenyl	23.35	183050	4.386 ug/mlm
Spiked Amount 50.000	Recovery =		8.77% x5 = 44 x MT
3) SC C(39)	35.23	429921	11.189 ug/mlm
Spiked Amount 150.000	Recovery =		7.46% x5 = 37 x MT
Target Compounds			
1) HM Petoleum Range Organics	2.15	115716919	2196.238 ug/ml /1000ml

2.196 x 5 =

11 ppm
MT

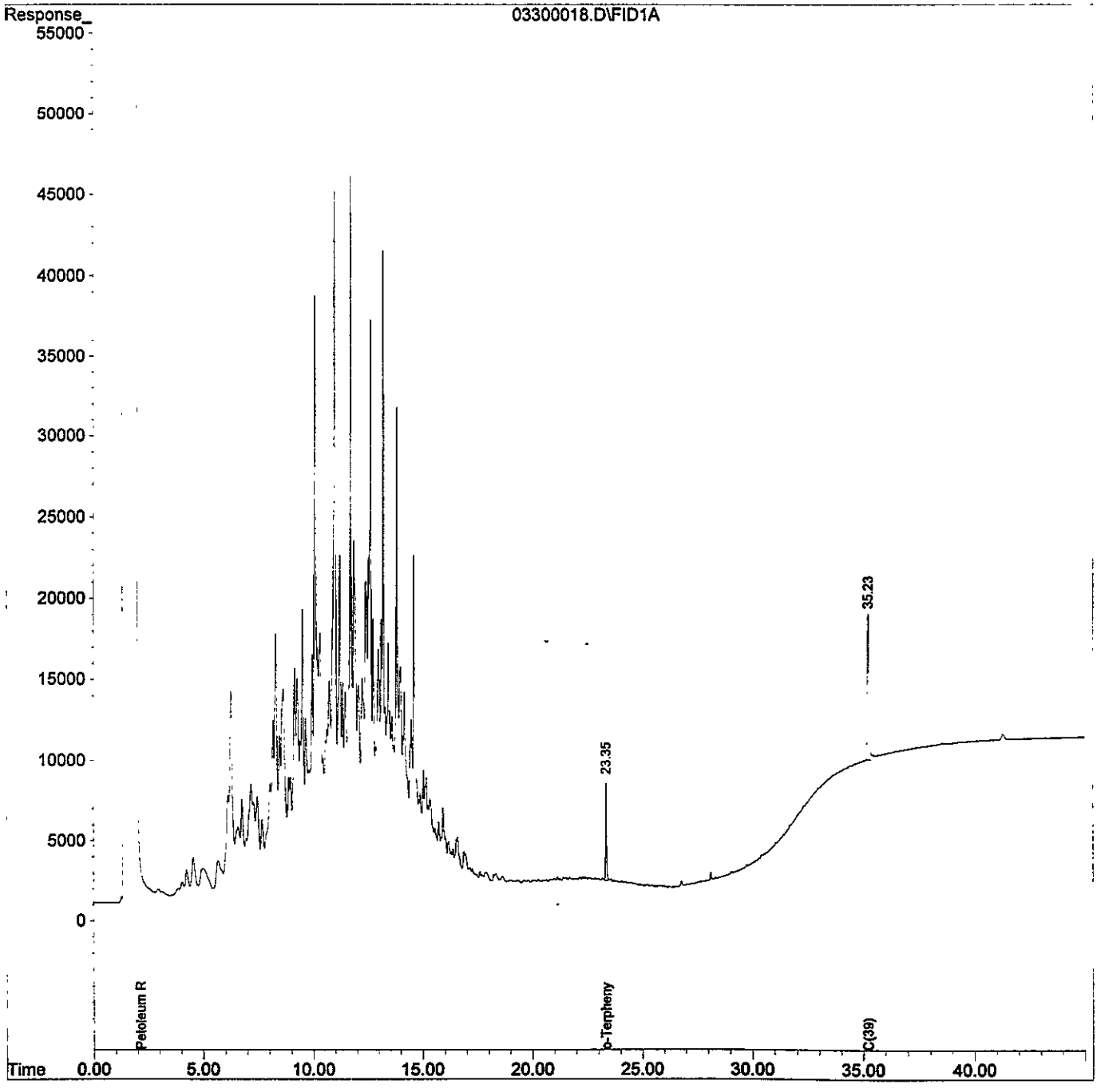
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\1\DATA\033000\03300018.D Vial: 9
Acq On : 31 Mar 2000 4:24 am Operator: MT
Sample : AB89501 5X Inst : DUAL FID
Misc : 23975 1000ml Multiplr: 1.00
IntFile : PRO0914.e
Quant Time: Mar 31 11:40 2000 Quant Results File: PRO0112.RES

Quant Method : C:\HPCHEM\1\METHODS\PRO0112.M (Chemstation Integrator)
Title : FL PRO
Last Update : Thu Mar 09 14:46:05 2000
Response via : Multiple Level Calibration
DataAcq Meth : PRO0112.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\033000\03300019.D Vial: 10
Acq On : 31 Mar 2000 5:18 am Operator: MT
Sample : AB89502 Inst : DUAL FID
Misc : 23975 1000ml Multiplr: 1.00
IntFile : PRO0914.e
Quant Time: Mar 31 11:41 2000 Quant Results File: PRO0112.RES

Quant Method : C:\HPCHEM\1\METHODS\PRO0112.M (Chemstation Integrator)
Title : FL PRO
Last Update : Thu Mar 09 14:46:05 2000
Response via : Initial Calibration
DataAcq Meth : PRO0112.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) SC o-Terphenyl	23.35	1036118	24.828 ug/mlm
Spiked Amount 50.000		Recovery =	49.66% x MT
3) SC C(39)	35.25	2630878	68.468 ug/mlm
Spiked Amount 150.000		Recovery =	45.65% √MT
Target Compounds			
1) HM Petoleum Range Organics	2.15	58893289	660.736 ug/ml /1000ml =

0.66J ppm
MT

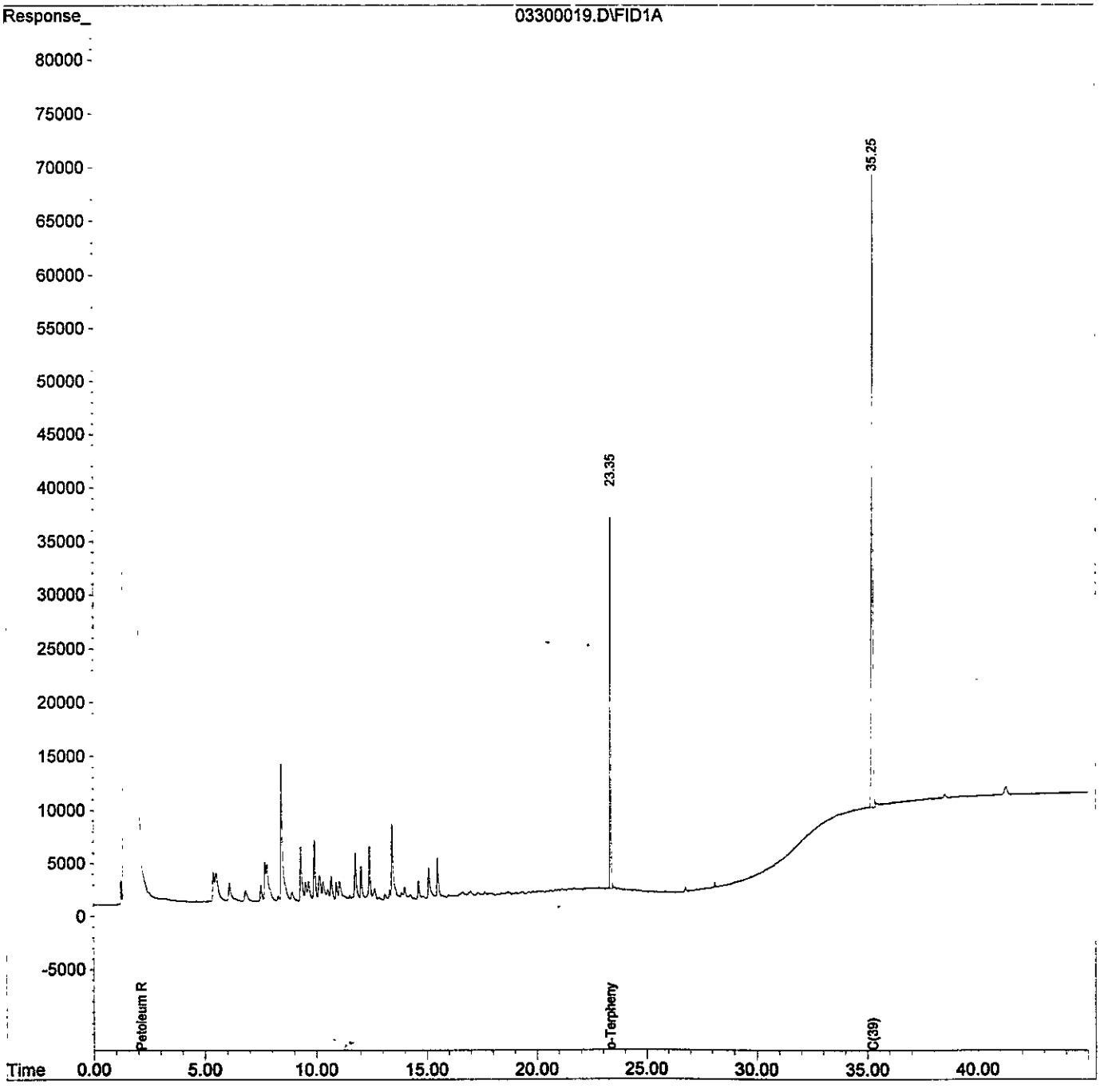
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\1\DATA\033000\03300019.D Vial: 10
Acq On : 31 Mar 2000 5:18 am Operator: MT
Sample : AB89502 Inst : DUAL FID
Misc : 23975 1000ml Multiplr: 1.00
IntFile : PRO0914.e
Quant Time: Mar 31 11:41 2000 Quant Results File: PRO0112.RES

Quant Method : C:\HPCHEM\1\METHODS\PRO0112.M (Chemstation Integrator)
Title : FL PRO
Last Update : Thu Mar 09 14:46:05 2000
Response via : Multiple Level Calibration
DataAcq Meth : PRO0112.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\033000\03300020.D Vial: 11
Acq On : 31 Mar 2000 6:12 am Operator: MT
Sample : AB89503 Inst : DUAL FID
Misc : 23975 1000ml Multiplr: 1.00
IntFile : PRO0914.e
Quant Time: Mar 31 11:42 2000 Quant Results File: PRO0112.RES

Quant Method : C:\HPCHEM\1\METHODS\PRO0112.M (Chemstation Integrator)
Title : FL PRO
Last Update : Thu Mar 09 14:46:05 2000
Response via : Initial Calibration
DataAcq Meth : PRO0112.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) SC o-Terphenyl	23.34	1260555	30.207 ug/mlm
Spiked Amount 50.000	Recovery =		60.41% x MT
3) SC C(39)	35.24	1969037	51.243 ug/mlm
Spiked Amount 150.000	Recovery =		34.16% x MT
Target Compounds			
1) HM Petoleum Range Organics	2.15	60923529	715.598 ug/ml / 1000ml =

0.715 ppm
MT

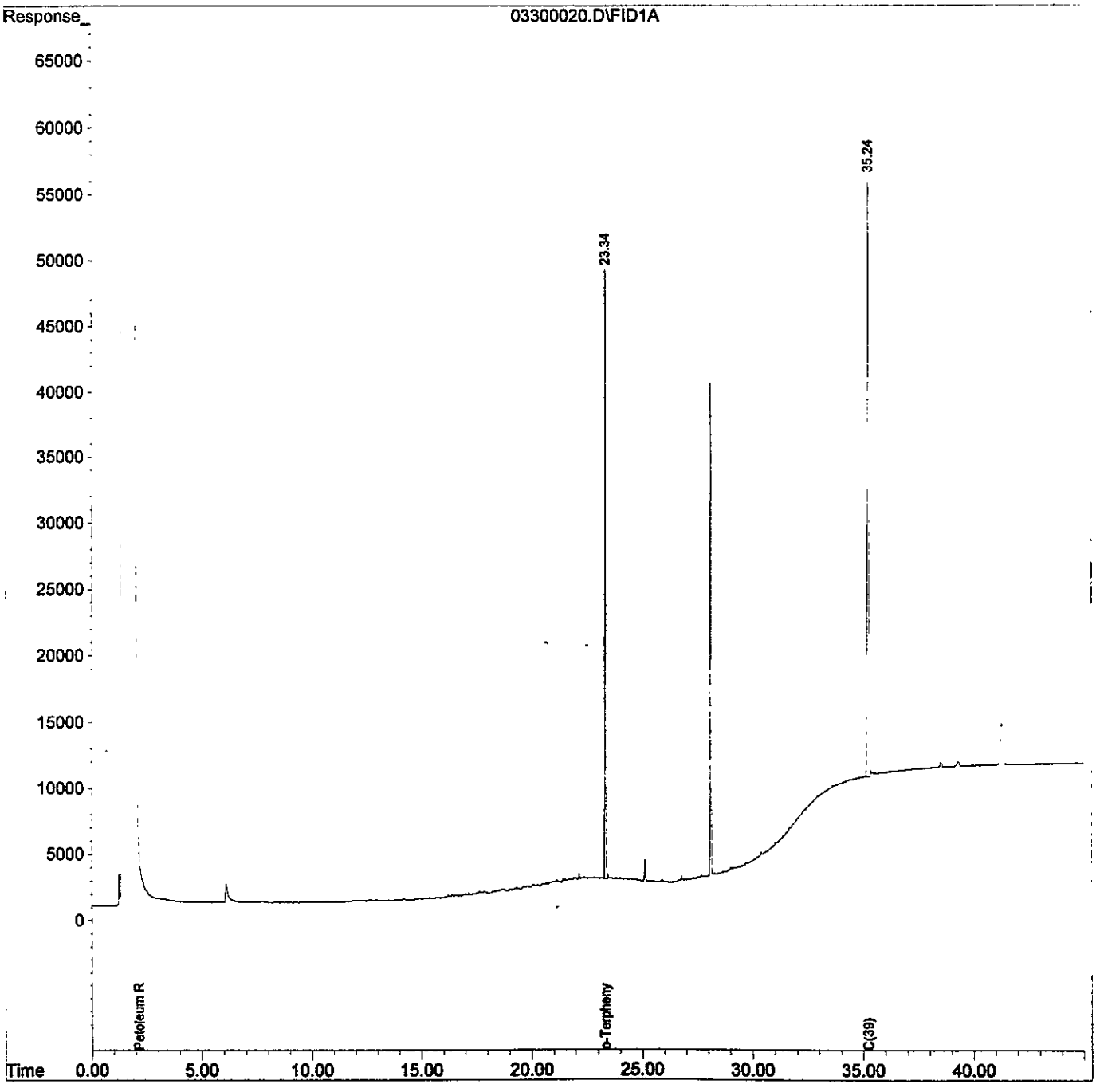
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\1\DATA\033000\03300020.D Vial: 11
Acq On : 31 Mar 2000 6:12 am Operator: MT
Sample : AB89503 Inst : DUAL FID
Misc : 23975 1000ml Multiplr: 1.00
IntFile : PRO0914.e
Quant Time: Mar 31 11:42 2000 Quant Results File: PRO0112.RES

Quant Method : C:\HPCHEM\1\METHODS\PRO0112.M (Chemstation Integrator)
Title : FL PRO
Last Update : Thu Mar 09 14:46:05 2000
Response via : Multiple Level Calibration
DataAcq Meth : PRO0112.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\033000\03300021.D Vial: 12
Acq On : 31 Mar 2000 7:05 am Operator: MT
Sample : AB89504 Inst : DUAL FID
Misc : 23975 1000ml Multiplr: 1.00
IntFile : PRO0914.e
Quant Time: Mar 31 11:43 2000 Quant Results File: PRO0112.RES

Quant Method : C:\HPCHEM\1\METHODS\PRO0112.M (Chemstation Integrator)
Title : FL PRO
Last Update : Thu Mar 09 14:46:05 2000
Response via : Initial Calibration
DataAcq Meth : PRO0112.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) SC o-Terphenyl	23.35	888273	21.286 ug/mlm
Spiked Amount 50.000	Recovery =		42.57% x MT
3) SC C(39)	35.24	1750527	45.557 ug/mlm
Spiked Amount 150.000	Recovery =		30.37% x MT
Target Compounds			
1) HM Petoleum Range Organics	2.15	54364901	538.369 ug/ml /1000ml =

0.54 ppm
MT

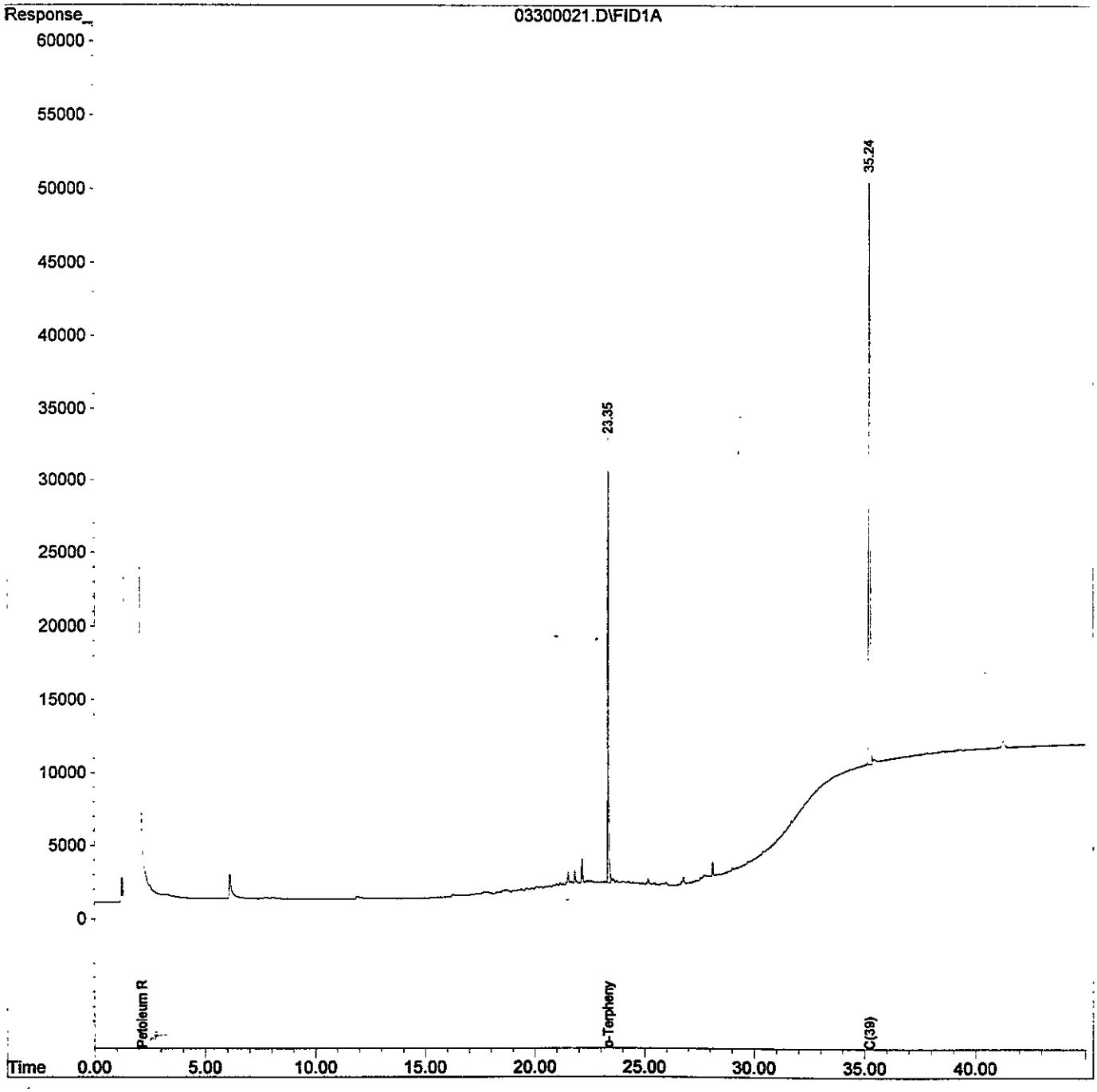
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\1\DATA\033000\03300021.D Vial: 12
Acq On : 31 Mar 2000 7:05 am Operator: MT
Sample : AB89504 Inst : DUAL FID
Misc : 23975 1000ml Multiplr: 1.00
IntFile : PRO0914.e
Quant Time: Mar 31 11:43 2000 Quant Results File: PRO0112.RES

Quant Method : C:\HPCHEM\1\METHODS\PRO0112.M (Chemstation Integrator)
Title : FL PRO
Last Update : Thu Mar 09 14:46:05 2000
Response via : Multiple Level Calibration
DataAcq Meth : PRO0112.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\033000\03300024.D Vial: 15
Acq On : 31 Mar 2000 11:48 am Operator: MT
Sample : AB89505 Inst : DUAL FID
Misc : 23975 1000ml Multiplr: 1.00
IntFile : PRO0914.e
Quant Time: Mar 31 12:35 2000 Quant Results File: PRO0112.RES

Quant Method : C:\HPCHEM\1\METHODS\PRO0112.M (Chemstation Integrator)
Title : FL PRO
Last Update : Thu Mar 09 14:46:05 2000
Response via : Initial Calibration
DataAcq Meth : PRO0112.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) SC o-Terphenyl	23.34	1143867	27.410 ug/mlm
Spiked Amount 50.000	Recovery =		54.82% ✗ MT
3) SC C(39)	35.22f	1445883	37.629 ug/mlm
Spiked Amount 150.000	Recovery =		25.09% ✗ MT
Target Compounds			
1) HM Petoleum Range Organics	2.15	60383510	701.006 ug/ml / 1000ml = 0.701 ppm MT

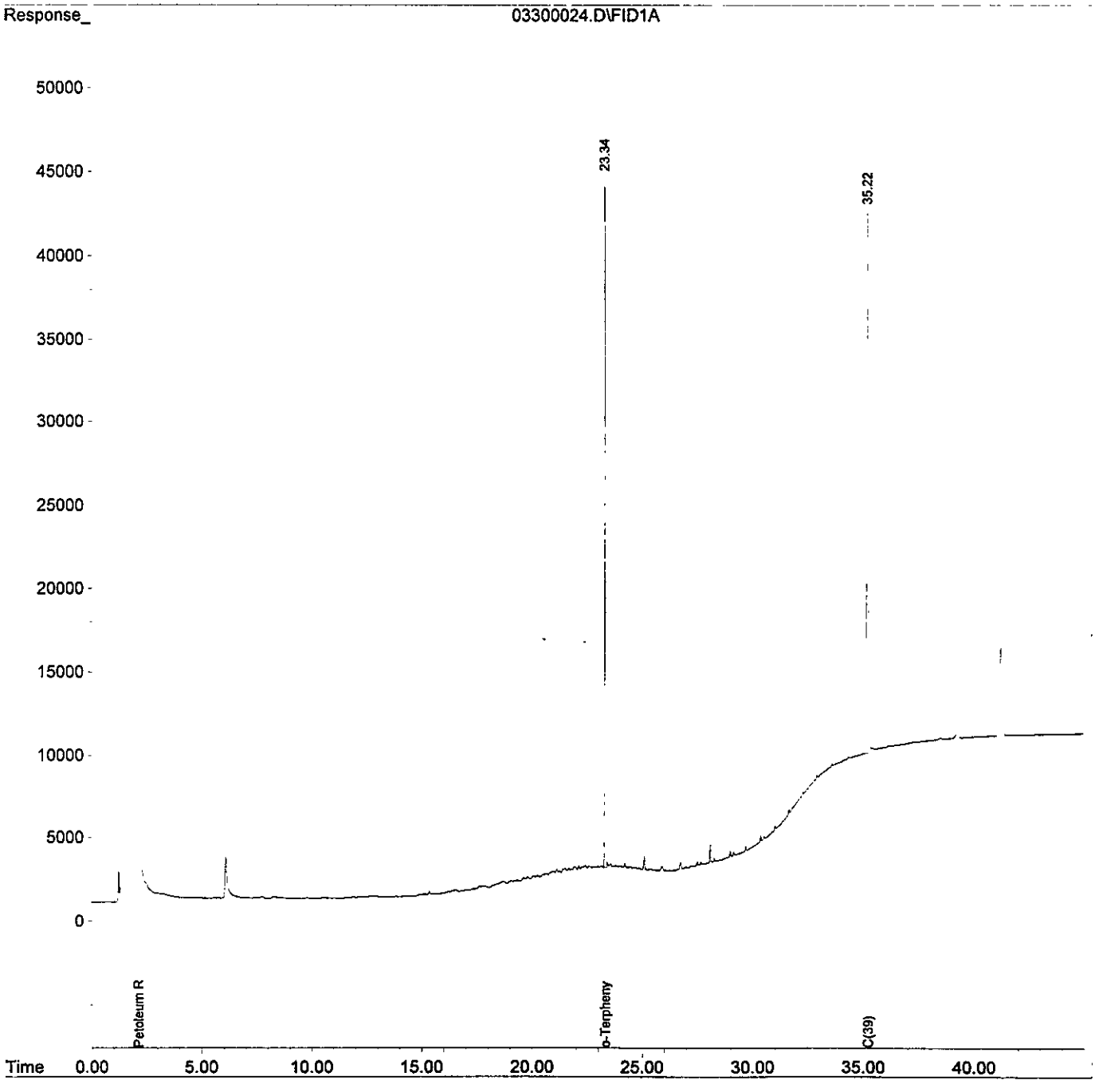
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\1\DATA\033000\03300024.D Vial: 15
Acq On : 31 Mar 2000 11:48 am Operator: MT
Sample : AB89505 Inst : DUAL FID
Misc : 23975 1000ml Multiplr: 1.00
IntFile : PRO0914.e
Quant Time: Mar 31 12:35 2000 Quant Results File: PRO0112.RES

Quant Method : C:\HPCHEM\1\METHODS\PRO0112.M (Chemstation Integrator)
Title : FL PRO
Last Update : Thu Mar 09 14:46:05 2000
Response via : Multiple Level Calibration
DataAcq Meth : PRO0112.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\033000\03300025.D Vial: 16
Acq On : 31 Mar 2000 12:42 pm Operator: MT
Sample : AB89506 Inst : DUAL FID
Misc : 23975 1000ml Multiplr: 1.00
IntFile : PRO0914.e
Quant Time: Mar 31 14:17 2000 Quant Results File: PRO0112.RES

Quant Method : C:\HPCHEM\1\METHODS\PRO0112.M (Chemstation Integrator)
Title : FL PRO
Last Update : Thu Mar 09 14:46:05 2000
Response via : Initial Calibration
DataAcq Meth : PRO0112.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) SC o-Terphenyl	23.33	1055789	25.300 ug/mlm
Spiked Amount 50.000	Recovery =		50.60% x MT
3) SC C(39)	35.24	4032466	104.943 ug/mlm
Spiked Amount 150.000	Recovery =		69.96% ✓ MT
Target Compounds			
1) HM Petoleum Range Organics	2.15	50411829	431.549 ug/ml / 1000ml =

0.43J ppm
MT

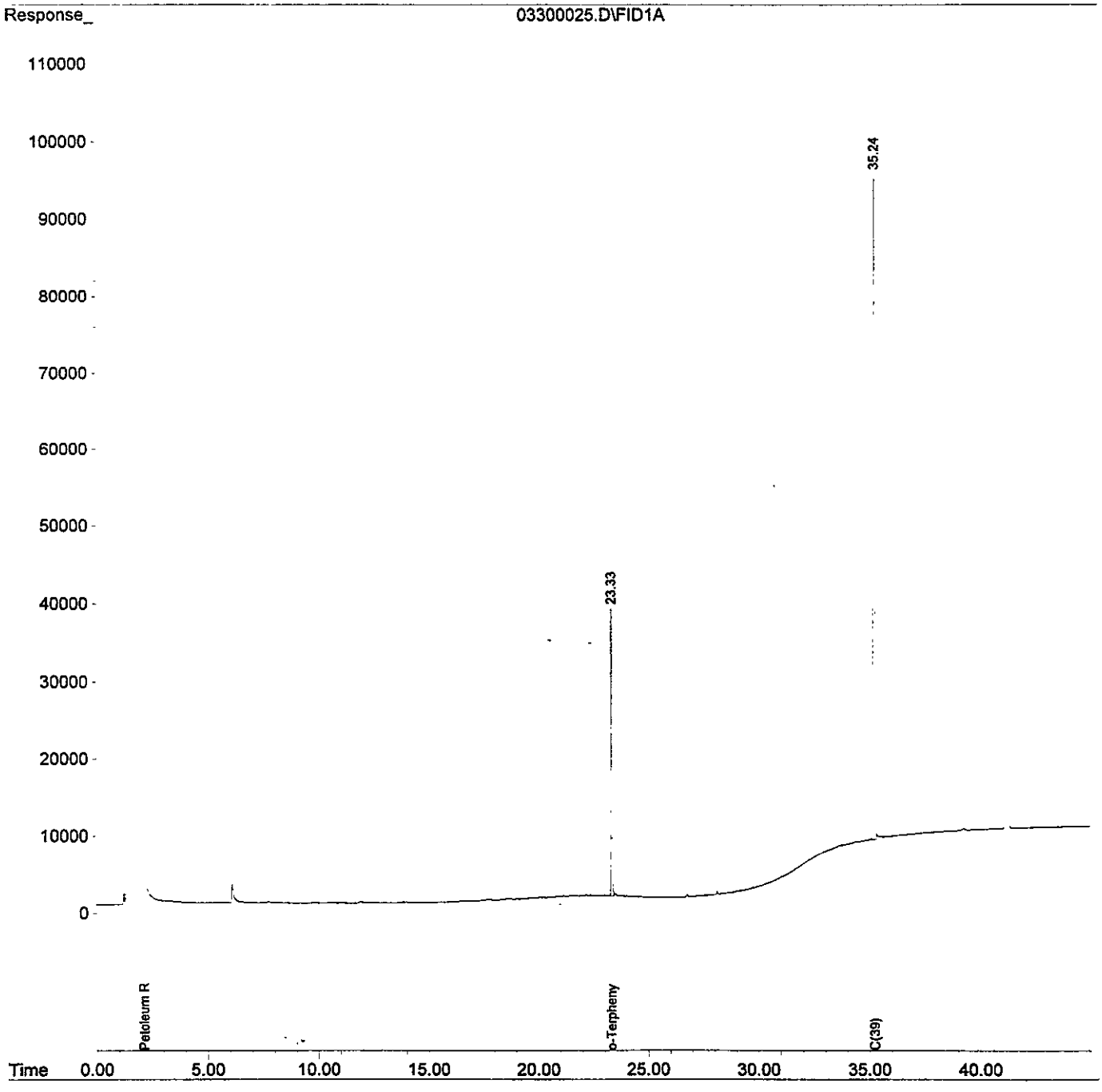
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\1\DATA\033000\03300025.D Vial: 16
Acq On : 31 Mar 2000 12:42 pm Operator: MT
Sample : AB89506 Inst : DUAL FID
Misc : 23975 1000ml Multiplr: 1.00
IntFile : PRO0914.e
Quant Time: Mar 31 14:17 2000 Quant Results File: PRO0112.RES

Quant Method : C:\HPCHEM\1\METHODS\PRO0112.M (Chemstation Integrator)
Title : FL PRO
Last Update : Thu Mar 09 14:46:05 2000
Response via : Multiple Level Calibration
DataAcq Meth : PRO0112.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\033000\03300026.D Vial: 17
Acq On : 31 Mar 2000 1:46 pm Operator: MT
Sample : AB89507 Inst : DUAL FID
Misc : 23975 1000ml Multiplr: 1.00
IntFile : PRO0914.e
Quant Time: Mar 31 16:30 2000 Quant Results File: PRO0112.RES

Quant Method : C:\HPCHEM\1\METHODS\PRO0112.M (Chemstation Integrator)
Title : FL PRO
Last Update : Thu Mar 09 14:46:05 2000
Response via : Initial Calibration
DataAcq Meth : PRO0112.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) SC o-Terphenyl	23.33	896552	21.484 ug/mlm
Spiked Amount 50.000		Recovery =	42.97% ✓ MT
3) SC C(39)	35.23	2818307	73.345 ug/mlm
Spiked Amount 150.000		Recovery =	48.90% ✓ MT
Target Compounds			
1) HM Petoleum Range Organics	2.15	168019455	3609.569 ug/ml /1000ml =

3.6 ppm
MT

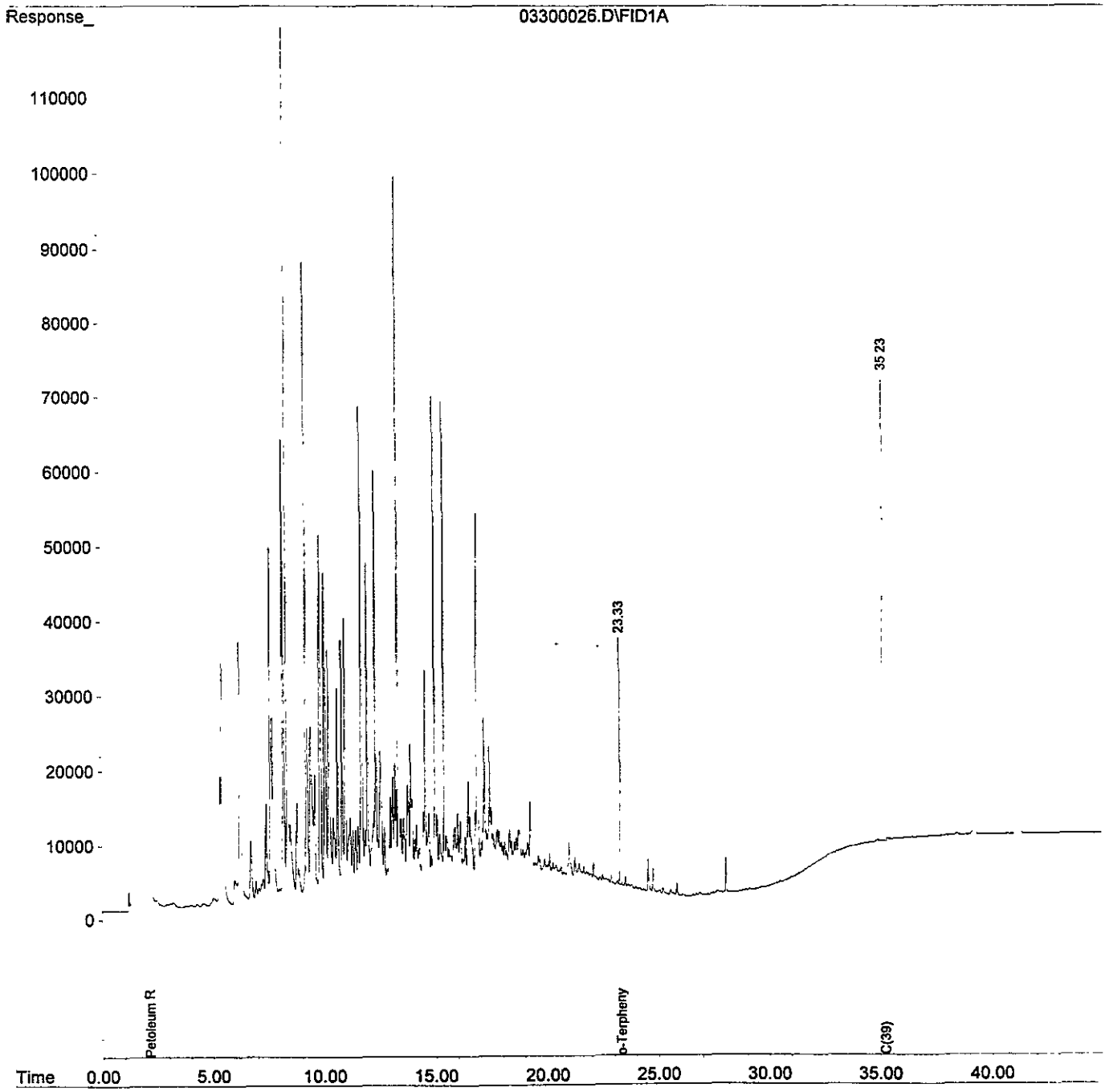
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\1\DATA\033000\03300026.D Vial: 17
Acq On : 31 Mar 2000 1:46 pm Operator: MT
Sample : AB89507 Inst : DUAL FID
Misc : 23975 1000ml Multiplr: 1.00
IntFile : PRO0914.e
Quant Time: Mar 31 16:30 2000 Quant Results File: PRO0112.RES

Quant Method : C:\HPCHEM\1\METHODS\PRO0112.M (Chemstation Integrator)
Title : FL PRO
Last Update : Thu Mar 09 14:46:05 2000
Response via : Multiple Level Calibration
DataAcq Meth : PRO0112.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\033000\03300027.D Vial: 18
Acq On : 31 Mar 2000 2:48 pm Operator: MT
Sample : AB89508 Inst : DUAL FID
Misc : 23975 1000ml Multiplr: 1.00
IntFile : PRO0914.e
Quant Time: Mar 31 16:30 2000 Quant Results File: PRO0112.RES

Quant Method : C:\HPCHEM\1\METHODS\PRO0112.M (Chemstation Integrator)
Title : FL PRO
Last Update : Thu Mar 09 14:46:05 2000
Response via : Initial Calibration
DataAcq Meth : PRO0112.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) SC o-Terphenyl	23.33	896496	21.483 ug/mlm
Spiked Amount 50.000	Recovery =		42.97% ✗ MT
3) SC C(39)	35.23	2951521	76.812 ug/mlm
Spiked Amount 150.000	Recovery =		51.21% ✓ MT
Target Compounds			
1) HM Petoleum Range Organics	2.15	60476636	703.522 ug/ml / 1000 ml

0.70 J ppm
MT

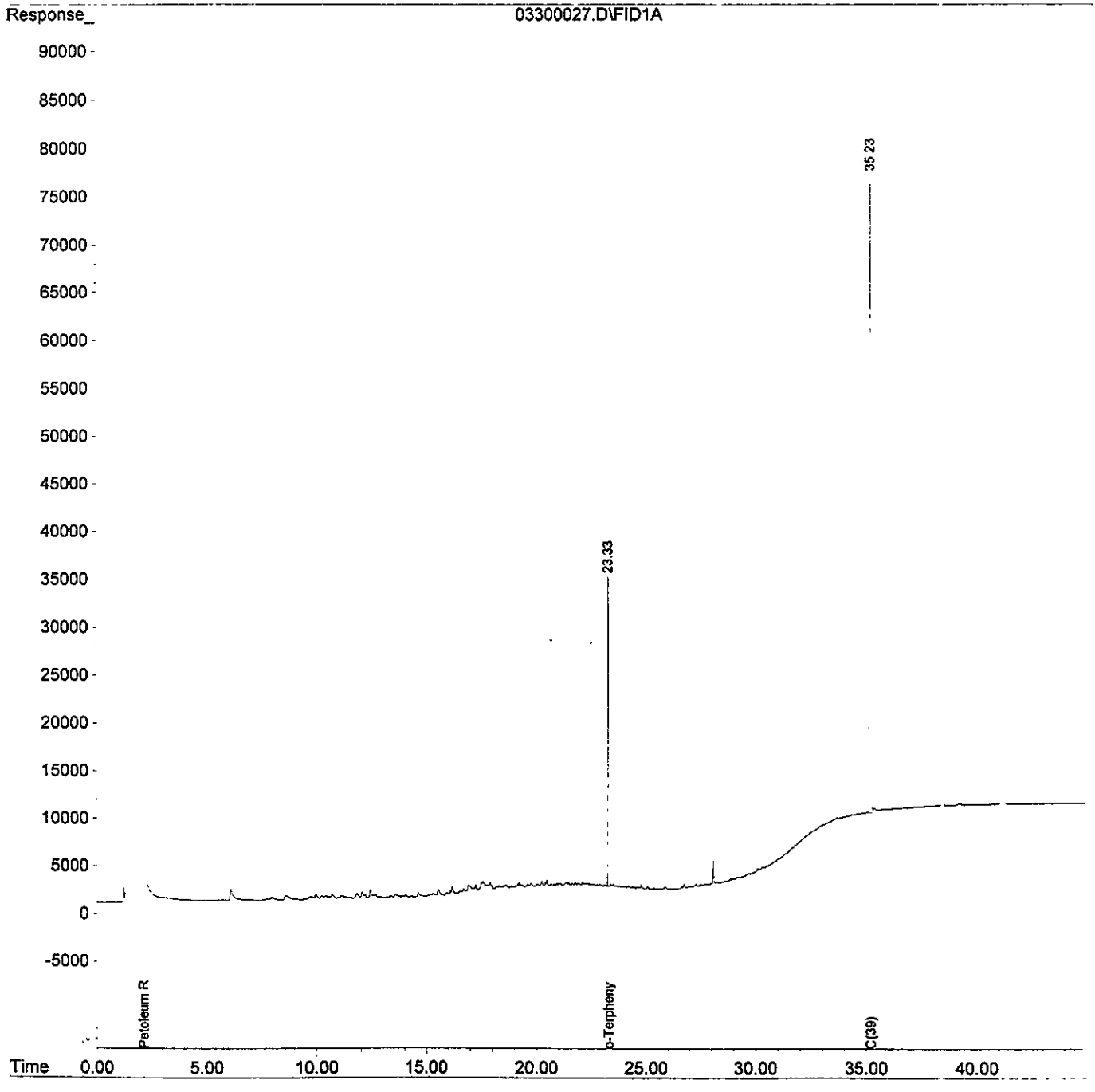
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\1\DATA\033000\03300027.D Vial: 18
Acq On : 31 Mar 2000 2:48 pm Operator: MT
Sample : AB89508 Inst : DUAL FID
Misc : 23975 1000ml Multiplr: 1.00
IntFile : PRO0914.e
Quant Time: Mar 31 16:30 2000 Quant Results File: PRO0112.RES

Quant Method : C:\HPCHEM\1\METHODS\PRO0112.M (Chemstation Integrator)
Title : FL PRO
Last Update : Thu Mar 09 14:46:05 2000
Response via : Multiple Level Calibration
DataAcq Meth : PRO0112.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\033000\03300028.D Vial: 19
Acq On : 31 Mar 2000 3:42 pm Operator: MT
Sample : AB89509 Inst : DUAL FID
Misc : 23975 1000ml Multiplr: 1.00
IntFile : PRO0914.e
Quant Time: Mar 31 16:31 2000 Quant Results File: PRO0112.RES

Quant Method : C:\HPCHEM\1\METHODS\PRO0112.M (Chemstation Integrator)
Title : FL PRO
Last Update : Thu Mar 09 14:46:05 2000
Response via : Initial Calibration
DataAcq Meth : PRO0112.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) SC o-Terphenyl	23.33	1148637	27.525 ug/mlm
Spiked Amount 50.000	Recovery =		55.05% x MT
3) SC C(39)	35.19f	1058973	27.559 ug/mlm
Spiked Amount 150.000	Recovery =		18.37% y MT
Target Compounds			
1) HM Petoleum Range Organics	2.15	52386251	484.902 ug/ml /1000ml

0.485 ppm
MT

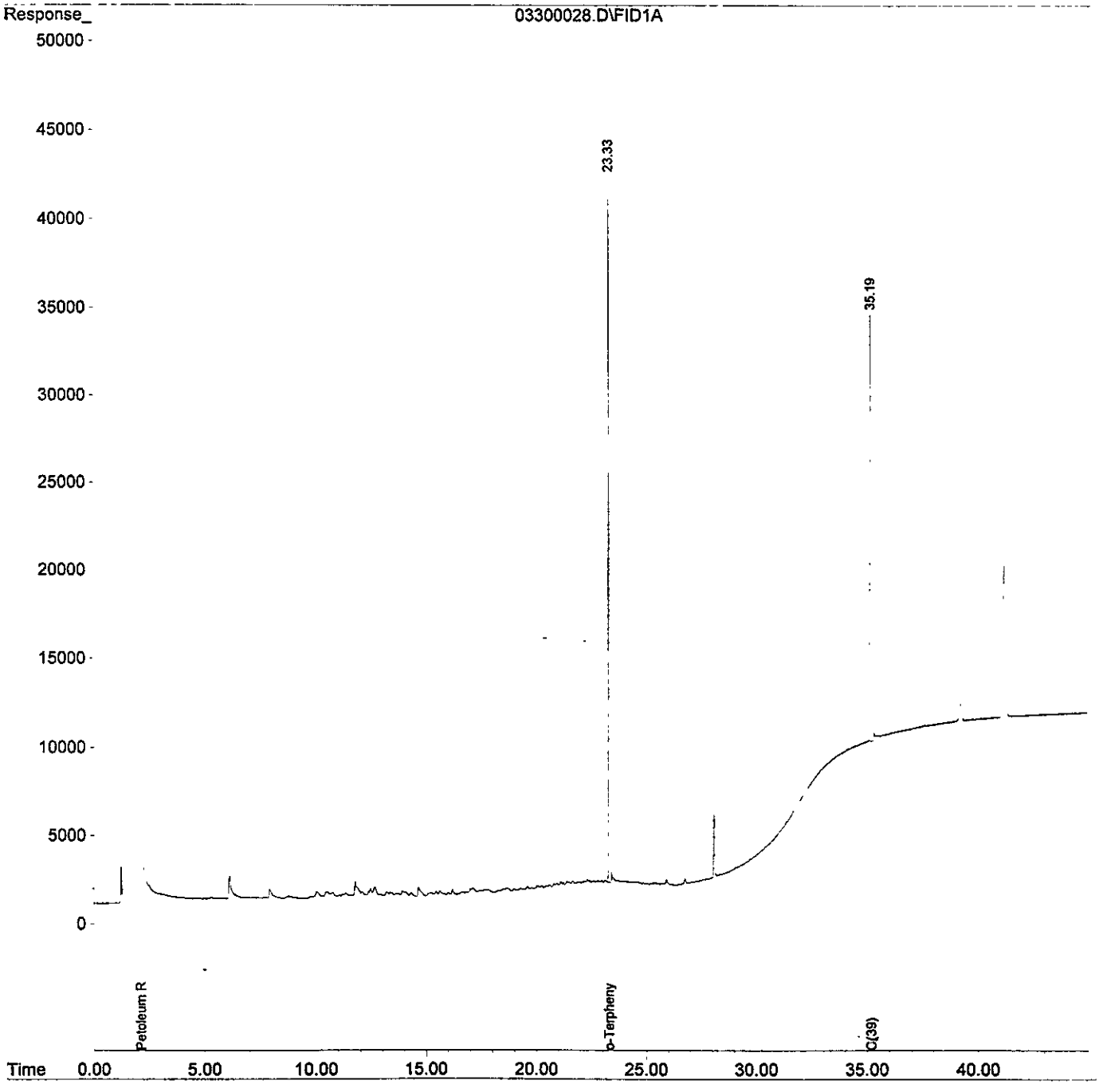
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\1\DATA\033000\03300028.D Vial: 19
Acq On : 31 Mar 2000 3:42 pm Operator: MT
Sample : AB89509 Inst : DUAL FID
Misc : 23975 1000ml Multiplr: 1.00
IntFile : PRO0914.e
Quant Time: Mar 31 16:31 2000 Quant Results File: PRO0112.RES

Quant Method : C:\HPCHEM\1\METHODS\PRO0112.M (Chemstation Integrator)
Title : FL PRO
Last Update : Thu Mar 09 14:46:05 2000
Response via : Multiple Level Calibration
DataAcq Meth : PRO0112.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\033000\03300029.D Vial: 20
Acq On : 31 Mar 2000 4:36 pm Operator: MT
Sample : AB89510 5X Inst : DUAL FID
Misc : 23975 1000ml Multiplr: 1.00
IntFile : PRO0914.e
Quant Time: Mar 31 17:31 2000 Quant Results File: PRO0112.RES

Quant Method : C:\HPCHEM\1\METHODS\PRO0112.M (Chemstation Integrator)
Title : FL PRO
Last Update : Thu Mar 09 14:46:05 2000
Response via : Initial Calibration
DataAcq Meth : PRO0112.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) SC o-Terphenyl	23.33	160809	3.853 ug/mlm
Spiked Amount 50.000	Recovery =		7.71% x5 = 39 x MT
3) SC C(39)	35.19f	347433	9.042 ug/mlm
Spiked Amount 150.000	Recovery =		6.03% x5 = 30 x MT
Target Compounds			
1) HM Petoleum Range Organics	2.15	145538812	3002.092 ug/ml/1000 ml =

3.002 x 5 =

15 ppm
MT

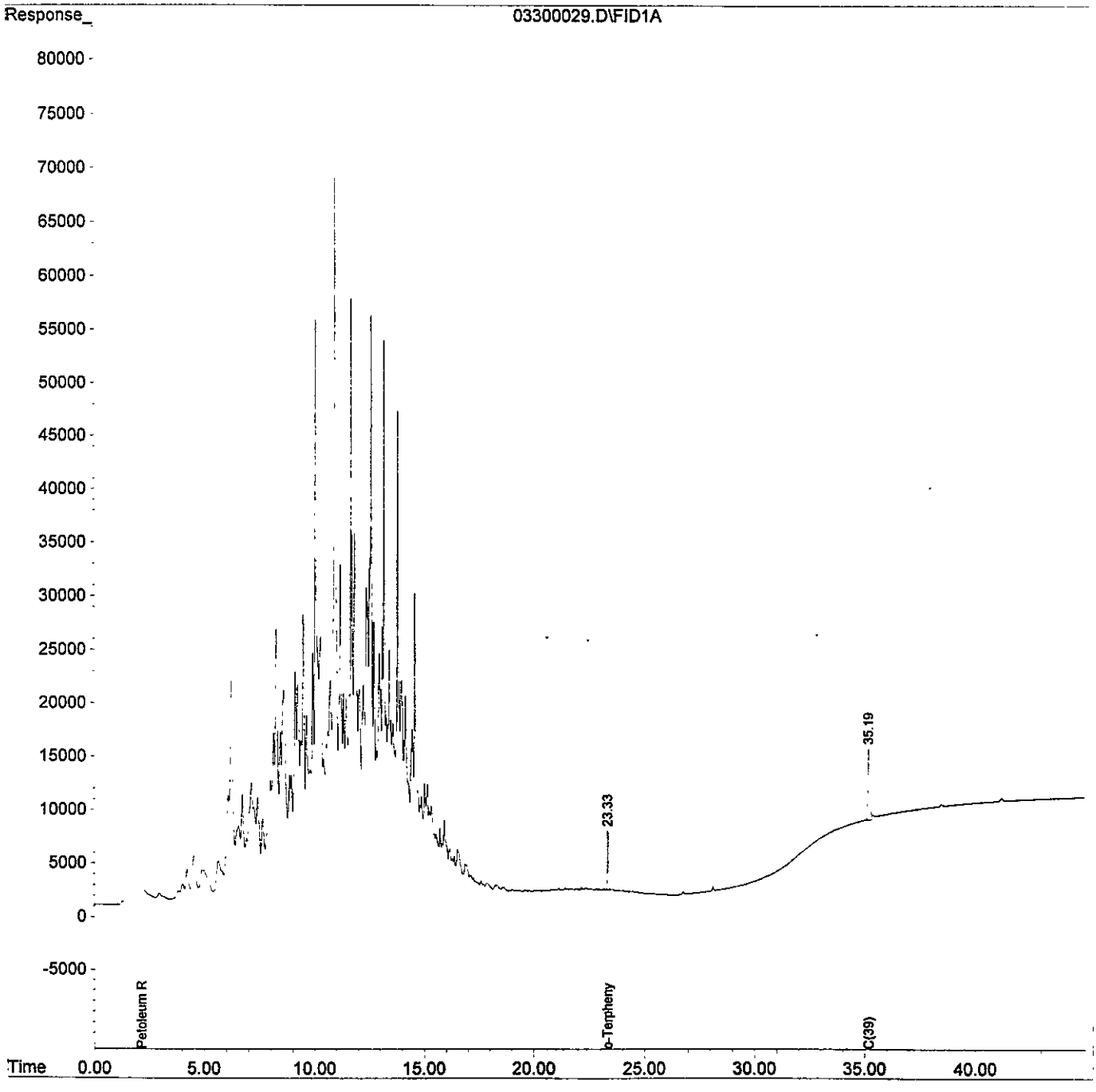
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\1\DATA\033000\03300029.D Vial: 20
Acq On : 31 Mar 2000 4:36 pm Operator: MT
Sample : AB89510 5X Inst : DUAL FID
Misc : 23975 1000ml Multiplr: 1.00
IntFile : PRO0914.e
Quant Time: Mar 31 17:31 2000 Quant Results File: PRO0112.RES

Quant Method : C:\HPCHEM\1\METHODS\PRO0112.M (Chemstation Integrator)
Title : FL PRO
Last Update : Thu Mar 09 14:46:05 2000
Response via : Multiple Level Calibration
DataAcq Meth : PRO0112.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\033000\03300030.D Vial: 21
Acq On : 31 Mar 2000 5:30 pm Operator: MT
Sample : AB89511 Inst : DUAL FID
Misc : 23975 1000ml Multiplr: 1.00
IntFile : PRO0914.e
Quant Time: Mar 31 18:21 2000 Quant Results File: PRO0112.RES

Quant Method : C:\HPCHEM\1\METHODS\PRO0112.M (Chemstation Integrator)
Title : FL PRO
Last Update : Thu Mar 09 14:46:05 2000
Response via : Initial Calibration
DataAcq Meth : PRO0112.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) SC o-Terphenyl	23.33	1051891	25.206 ug/mlm
Spiked Amount 50.000	Recovery =		50.41% X MT
3) SC C(39)	35.19f	899422	23.407 ug/mlm
Spiked Amount 150.000	Recovery =		15.60% X MT
Target Compounds			
1) HM Petoleum Range Organics	2.15	52633388	491.580 ug/ml / 1000ml =

0.49J ppm MT

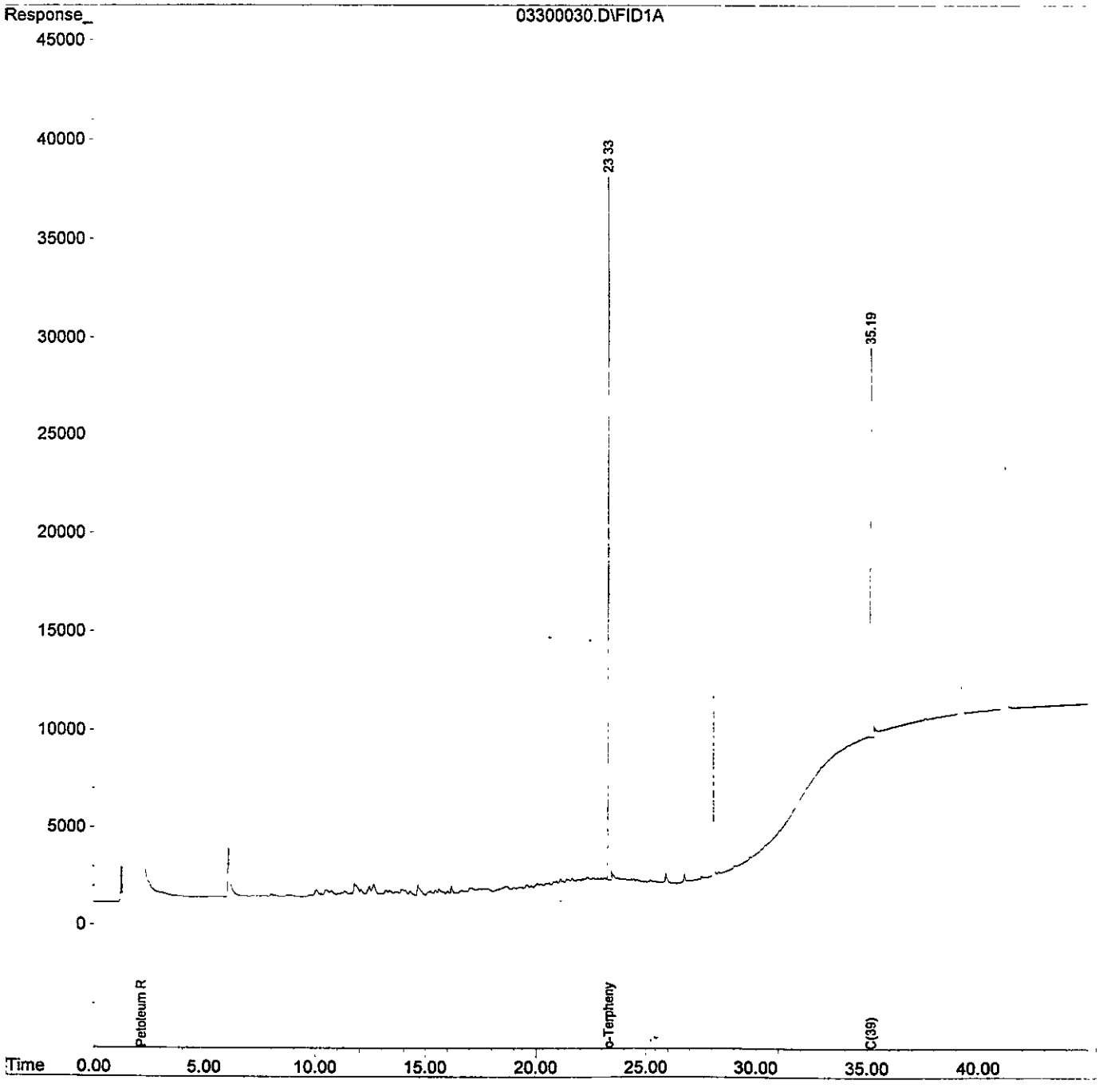
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\1\DATA\033000\03300030.D Vial: 21
Acq On : 31 Mar 2000 5:30 pm Operator: MT
Sample : AB89511 Inst : DUAL FID
Misc : 23975 1000ml Multiplr: 1.00
IntFile : PRO0914.e
Quant Time: Mar 31 18:21 2000 Quant Results File: PRO0112.RES

Quant Method : C:\HPCHEM\1\METHODS\PRO0112.M (Chemstation Integrator)
Title : FL PRO
Last Update : Thu Mar 09 14:46:05 2000
Response via : Multiple Level Calibration
DataAcq Meth : PRO0112.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\033000\03300012.D Vial: 3
Acq On : 30 Mar 2000 11:03 pm Operator: MT
Sample : PROW BLANK 0326 Inst : DUAL FID
Misc : Multiplr: 1.00
IntFile : PRO0914.e
Quant Time: Mar 31 9:20 2000 Quant Results File: PRO0112.RES

Quant Method : C:\HPCHEM\1\METHODS\PRO0112.M (Chemstation Integrator)
Title : FL PRO
Last Update : Thu Mar 09 14:46:05 2000
Response via : Initial Calibration
DataAcq Meth : PRO0112.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) SC o-Terphenyl	23.35	1844322	44.195 ug/mlm
Spiked Amount 50.000		Recovery =	88.39% MT
3) SC C(39)	35.24	1309786	34.087 ug/mlm
Spiked Amount 150.000		Recovery =	22.72% x MT
Target Compounds			
1) HM Petoleum Range Organics	2.15	53654296	519.167 ug/ml /1000ml =

0.52 J ppm =

> 1/2 RDL

MT

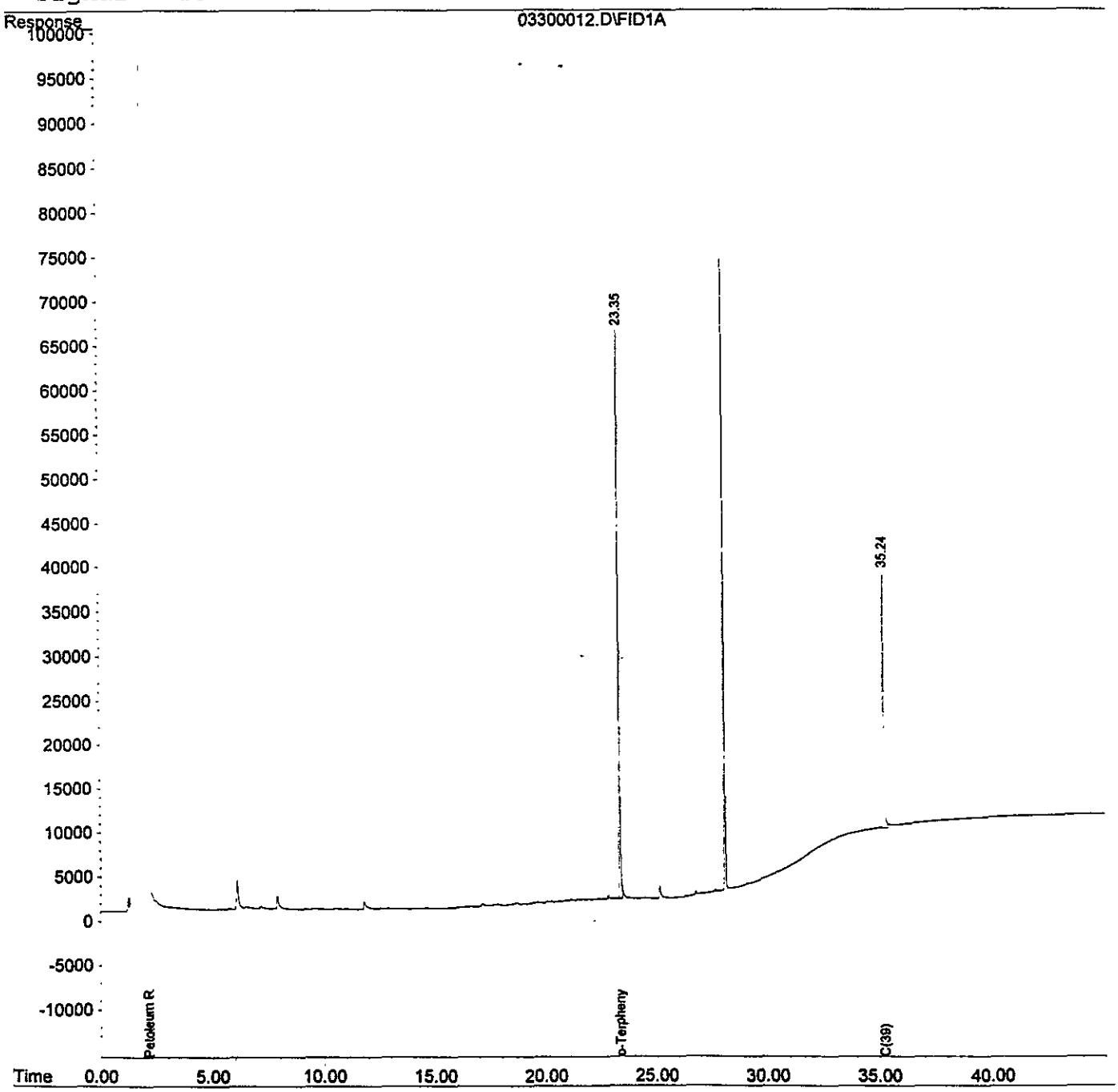
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\1\DATA\033000\03300012.D Vial: 3
Acq On : 30 Mar 2000 11:03 pm Operator: MT
Sample : PROW BLANK 0326 Inst : DUAL FID
Misc : Multiplr: 1.00
IntFile : PRO0914.e
Quant Time: Mar 31 9:20 2000 Quant Results File: PRO0112.RES

Quant Method : C:\HPCHEM\1\METHODS\PRO0112.M (Chemstation Integrator)
Title : FL PRO
Last Update : Thu Mar 09 14:46:05 2000
Response via : Multiple Level Calibration
DataAcq Meth : PRO0112.M

Volume Inj. :
Signal Phase :
Signal Info :



Accura Analytical Laboratory, Inc.

LCS Report

Sample ID:	PROW LCS 0326	**Date Acquired:**	3/30/00
Operator:	MT	**Instrument ID:**	DUAL FID #1, FRONT C
Data File:	03300013	**AS POS.#**	4
Method:	FLPRO	**Matrix:**	WATER

Compound	Expected Rec. (ppm)	Actual Rec. (ppm)	Percent Recovery	Recovery Limits (%)	Pass/ Fail
PRO	4.25	3.013	71 %	55 - 118	Pass

Surrogates	Expected Rec. (ppm)	Actual Rec. (ppm)	Percent Recovery	Recovery Limits (%)	Pass/ Fail
ortho-terphenyl	50	42.54	85%	82 - 142	Pass
C(39)	150	13.12	9%	42 - 193	Fail

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\033000\03300013.D Vial: 4
Acq On : 30 Mar 2000 11:56 pm Operator: MT
Sample : PROW LCS 0326 Inst : DUAL FID
Misc : Multiplr: 1.00
IntFile : PRO0914.e
Quant Time: Mar 31 9:20 2000 Quant Results File: PRO0112.RES

Quant Method : C:\HPCHEM\1\METHODS\PRO0112.M (Chemstation Integrator)
Title : FL PRO
Last Update : Thu Mar 09 14:46:05 2000
Response via : Initial Calibration
DataAcq Meth : PRO0112.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) SC o-Terphenyl	23.35	1775430	42.544 ug/mlm
Spiked Amount 50.000	Recovery =		85.09% ✓MT
3) SC C(39)	35.23	503983	13.116 ug/mlm
Spiked Amount 150.000	Recovery =		8.74% x MT
Target Compounds			
1) HM Petoleum Range Organics	2.15	145924757	3012.521 ug/ml /1000ml =

3.013 /4.25 x 100% =

71% ✓

MT

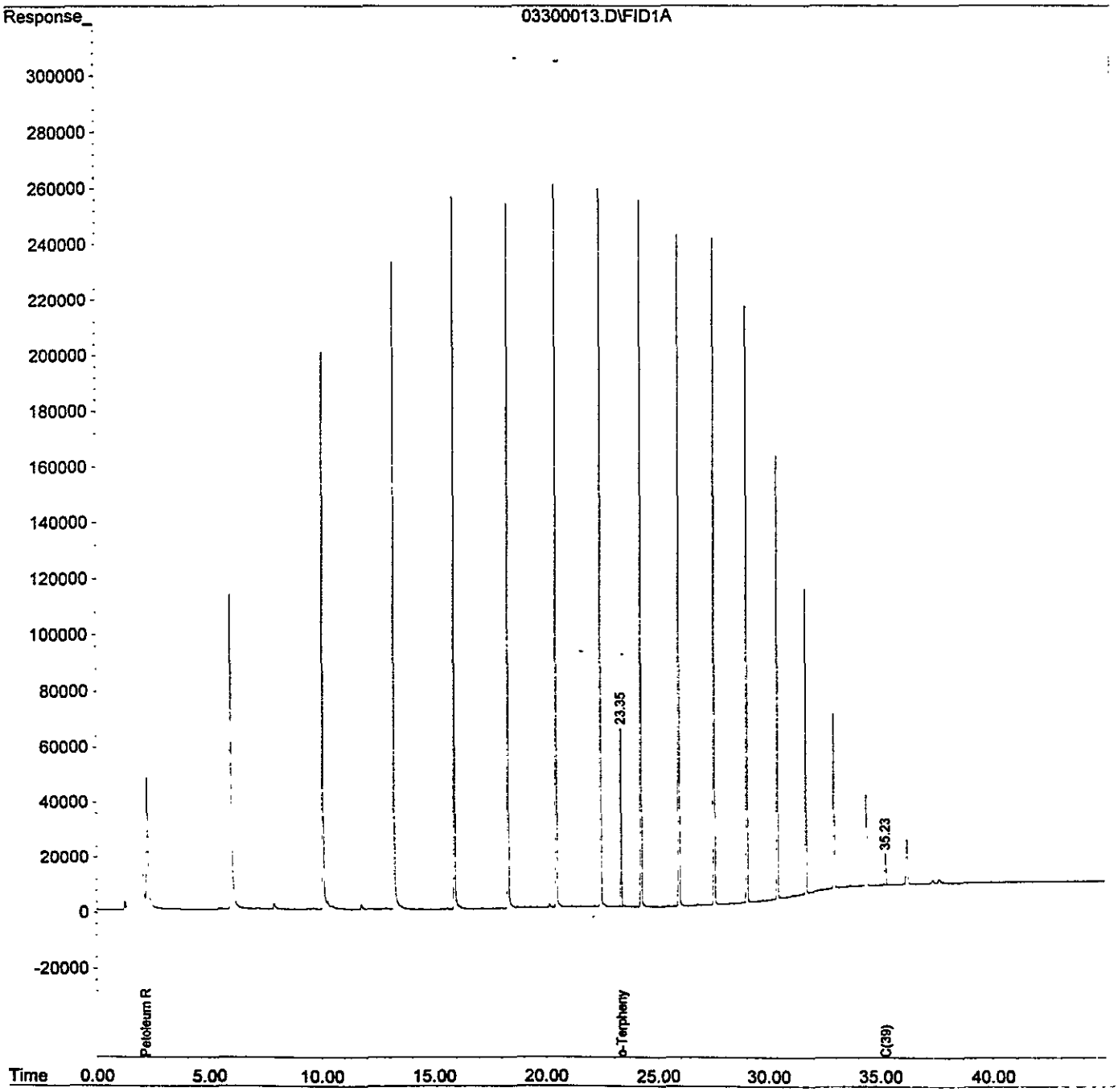
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\1\DATA\033000\03300013.D Vial: 4
Acq On : 30 Mar 2000 11:56 pm Operator: MT
Sample : PROW LCS 0326 Inst : DUAL FID
Misc : Multiplr: 1.00
IntFile : PRO0914.e
Quant Time: Mar 31 9:20 2000 Quant Results File: PRO0112.RES

Quant Method : C:\HPCHEM\1\METHODS\PRO0112.M (Chemstation Integrator)
Title : FL PRO
Last Update : Thu Mar 09 14:46:05 2000
Response via : Multiple Level Calibration
DataAcq Meth : PRO0112.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\033000\03300032.D Vial: 23
Acq On : 31 Mar 2000 8:21 pm Operator: MT
Sample : 4250 PHS PRO CCV Inst : DUAL FID
Misc : Multiplr: 1.00
IntFile : PRO0914.e
Quant Time: Apr 2 14:48 2000 Quant Results File: PRO0112.RES

Quant Method : C:\HPCHEM\1\METHODS\PRO0112.M (Chemstation Integrator)
Title : FL PRO
Last Update : Thu Mar 09 14:46:05 2000
Response via : Initial Calibration
DataAcq Meth : PRO0112.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) SC o-Terphenyl	23.34	1957969	46.919 ug/mlm
Spiked Amount 50.000	Recovery =		93.84% ✓ MT
3) SC C(39)	35.27	5103150	132.807 ug/mlm
Spiked Amount 150.000	Recovery =		88.54% ✓ MT
Target Compounds			
1) HM Petoleum Range Organics	2.15	207491023	4676.178 ug/ml

110% ✓ MT

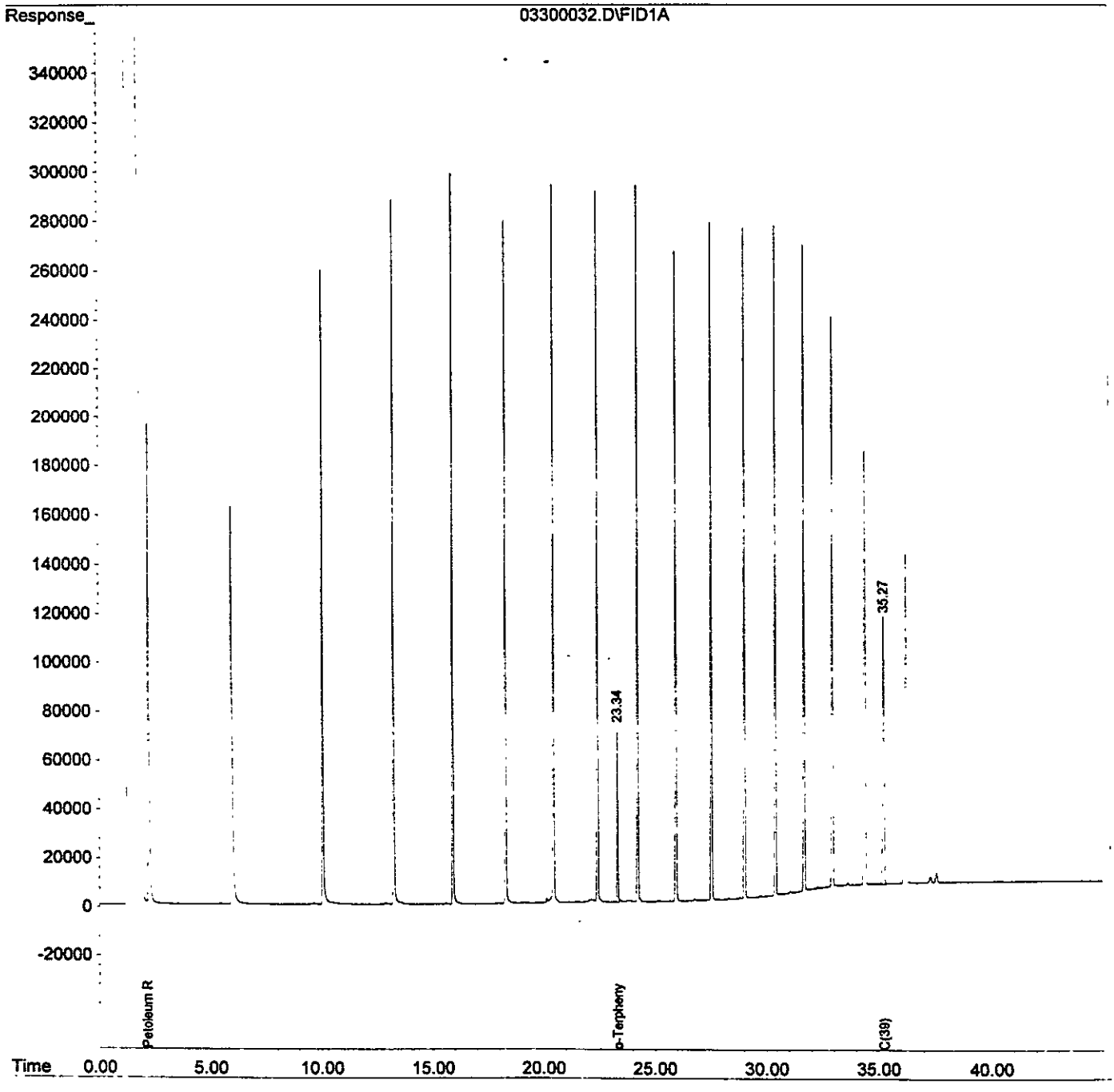
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\1\DATA\033000\03300032.D Vial: 23
Acq On : 31 Mar 2000 8:21 pm Operator: MT
Sample : 4250 PHS PRO CCV Inst : DUAL FID
Misc : Multiplr: 1.00
IntFile : PRO0914.e
Quant Time: Apr 2 14:48 2000 Quant Results File: PRO0112.RES

Quant Method : C:\HPCHEM\1\METHODS\PRO0112.M (Chemstation Integrator)
Title : FL PRO
Last Update : Thu Mar 09 14:46:05 2000
Response via : Multiple Level Calibration
DataAcq Meth : PRO0112.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\033000\03300023.D Vial: 14
Acq On : 31 Mar 2000 10:47 am Operator: MT
Sample : 4250 PHS PRO CCV Inst : DUAL FID
Misc : Multiplr: 1.00
IntFile : PRO0914.e
Quant Time: Mar 31 11:39 2000 Quant Results File: PRO0112.RES

Quant Method : C:\HPCHEM\1\METHODS\PRO0112.M (Chemstation Integrator)
Title : FL PRO
Last Update : Thu Mar 09 14:46:05 2000
Response via : Initial Calibration
DataAcq Meth : PRO0112.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) SC o-Terphenyl	23.34	1889540	45.279 ug/mlm
Spiked Amount 50.000	Recovery =		90.56% ✓MT
3) SC C(39)	35.27	4890918	127.284 ug/mlm
Spiked Amount 150.000	Recovery =		84.86% ✓MT
Target Compounds			
1) HM Petoleum Range Organics	2.15	198107278	4422.609 ug/ml

104% ✓ MT

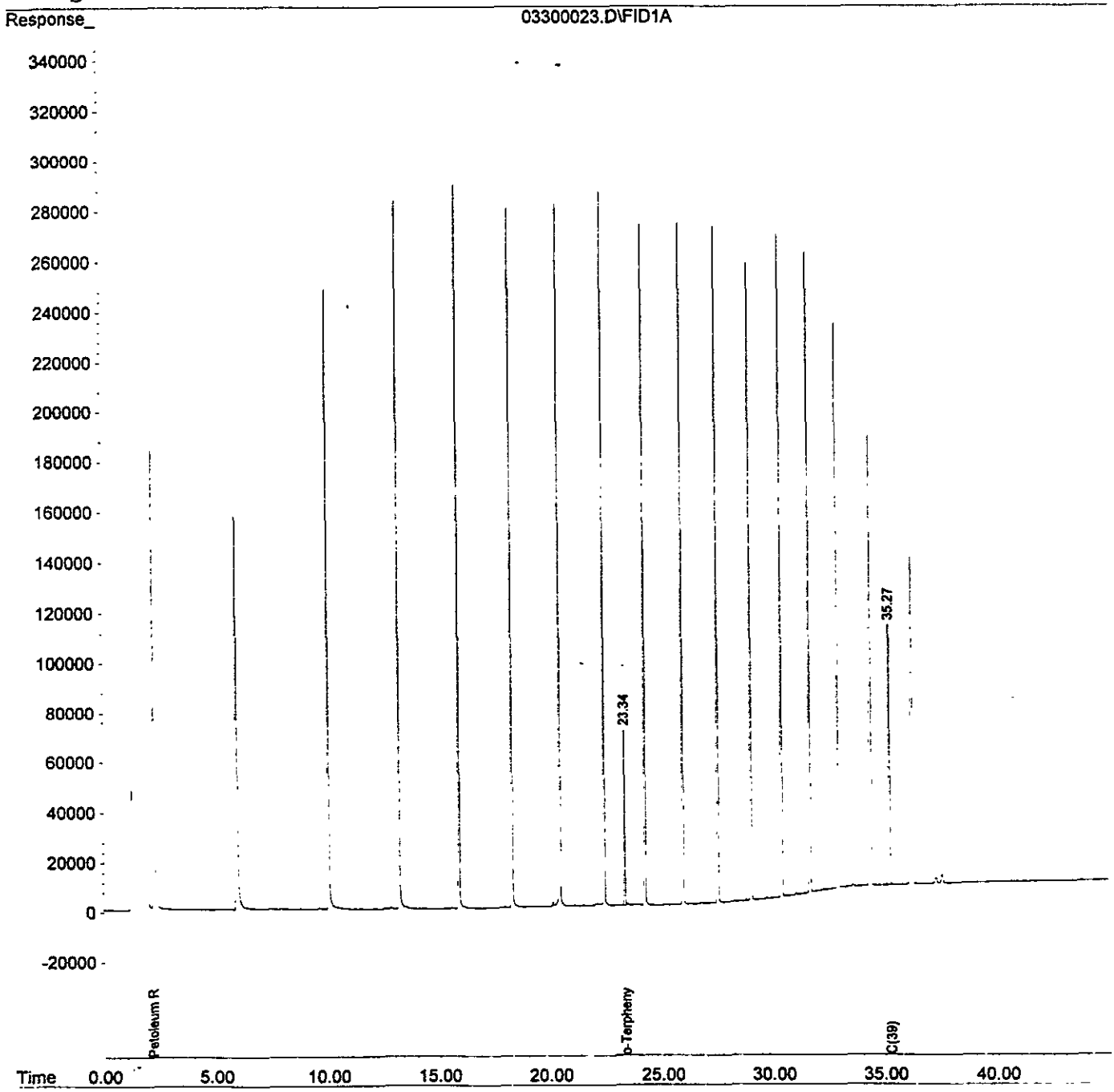
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\1\DATA\033000\03300023.D Vial: 14
Acq On : 31 Mar 2000 10:47 am Operator: MT
Sample : 4250 PHS PRO CCV Inst : DUAL FID
Misc : Multiplr: 1.00
IntFile : PRO0914.e
Quant Time: Mar 31 11:39 2000 Quant Results File: PRO0112.RES

Quant Method : C:\HPCHEM\1\METHODS\PRO0112.M (Chemstation Integrator)
Title : FL PRO
Last Update : Thu Mar 09 14:46:05 2000
Response via : Multiple Level Calibration
DataAcq Meth : PRO0112.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\033000\03300011.D Vial: 2
Acq On : 30 Mar 2000 10:09 pm Operator: MT
Sample : 4250 PHS PRO CCV Inst : DUAL FID
Misc : Multiplr: 1.00
IntFile : PRO0914.e
Quant Time: Mar 31 9:19 2000 Quant Results File: PRO0112.RES

Quant Method : C:\HPCHEM\1\METHODS\PRO0112.M (Chemstation Integrator)
Title : FL PRO
Last Update : Thu Mar 09 14:46:05 2000
Response via : Initial Calibration
DataAcq Meth : PRO0112.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) SC o-Terphenyl	23.35	1932905	46.318 ug/mlm
Spiked Amount 50.000	Recovery =		92.64% ✓MT
3) SC C(39)	35.29	4980449	129.614 ug/mlm
Spiked Amount 150.000	Recovery =		86.41% ✓MT
Target Compounds			
1) HM Petoleum Range Organics	2.15	208845782	4712.787 ug/ml

111% ✓
MT

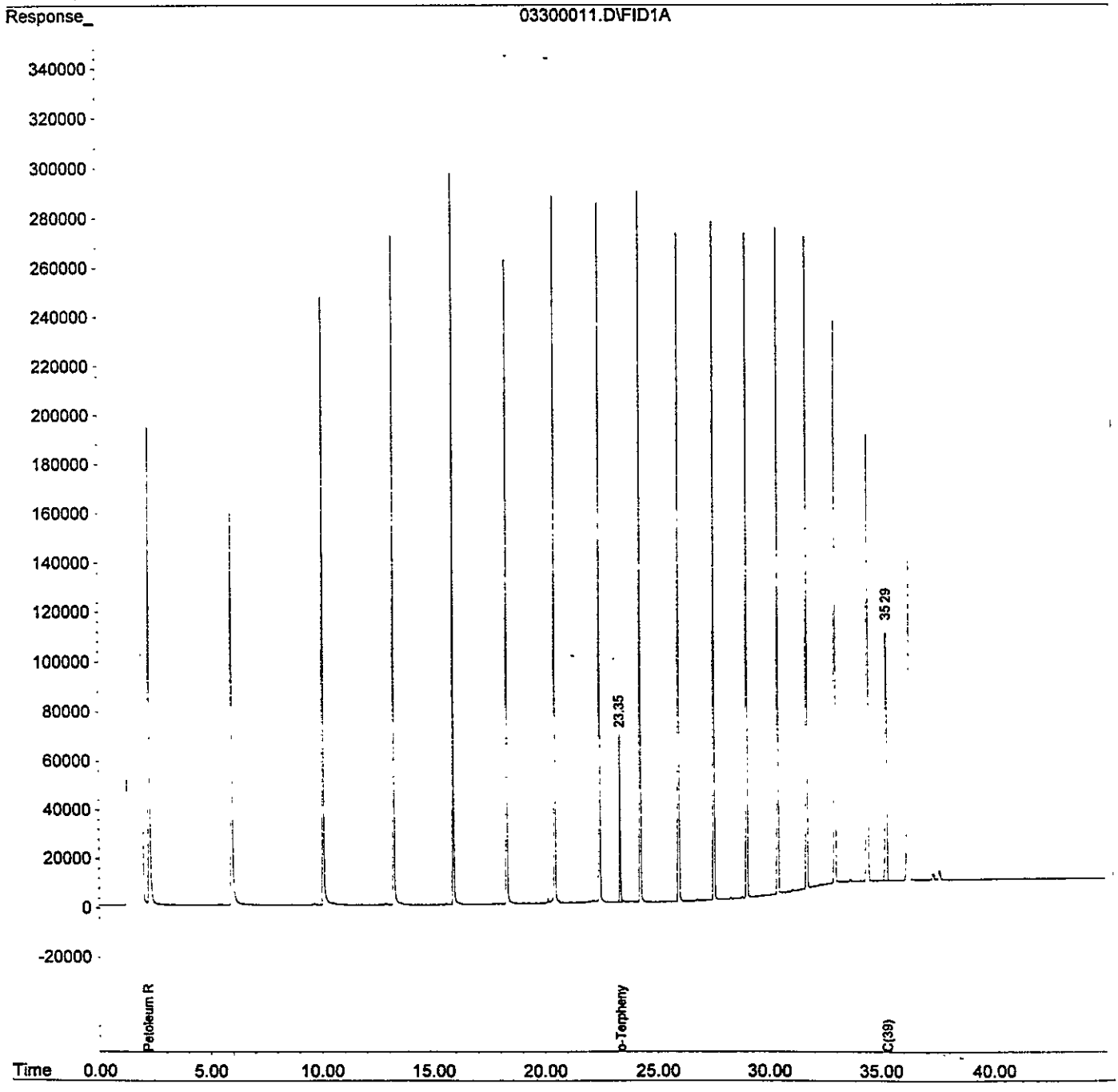
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\1\DATA\033000\03300011.D Vial: 2
Acq On : 30 Mar 2000 10:09 pm Operator: MT
Sample : 4250 PHS PRO CCV Inst : DUAL FID
Misc : Multiplr: 1.00
IntFile : PRO0914.e
Quant Time: Mar 31 9:19 2000 Quant Results File: PRO0112.RES

Quant Method : C:\HPCHEM\1\METHODS\PRO0112.M (Chemstation Integrator)
Title : FL PRO
Last Update : Thu Mar 09 14:46:05 2000
Response via : Multiple Level Calibration
DataAcq Meth : PRO0112.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\032800\03280046.D Vial: 23
Acq On : 30 Mar 2000 7:29 am Operator: MT
Sample : 4250 PHS PRO CCV Inst : DUAL FID
Misc : Multiplr: 1.00
IntFile : PRO0914.e
Quant Time: Mar 30 10:52 2000 Quant Results File: PRO0112.RES

Quant Method : C:\HPCHEM\1\METHODS\PRO0112.M (Chemstation Integrator)
Title : FL PRO
Last Update : Thu Mar 09 14:46:05 2000
Response via : Initial Calibration
DataAcq Meth : PRO0112.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) SC o-Terphenyl	23.35	2365445	56.683 ug/mlm
Spiked Amount 50.000	Recovery = 113.37%		
3) SC C(39)	35.30	6039363	157.172 ug/mlm
Spiked Amount 150.000	Recovery = 104.78%		
Target Compounds			
1) HM Petoleum Range Organics	2.15	230440904	5296.335 ug/ml

125% x
MT

NR
Sequence

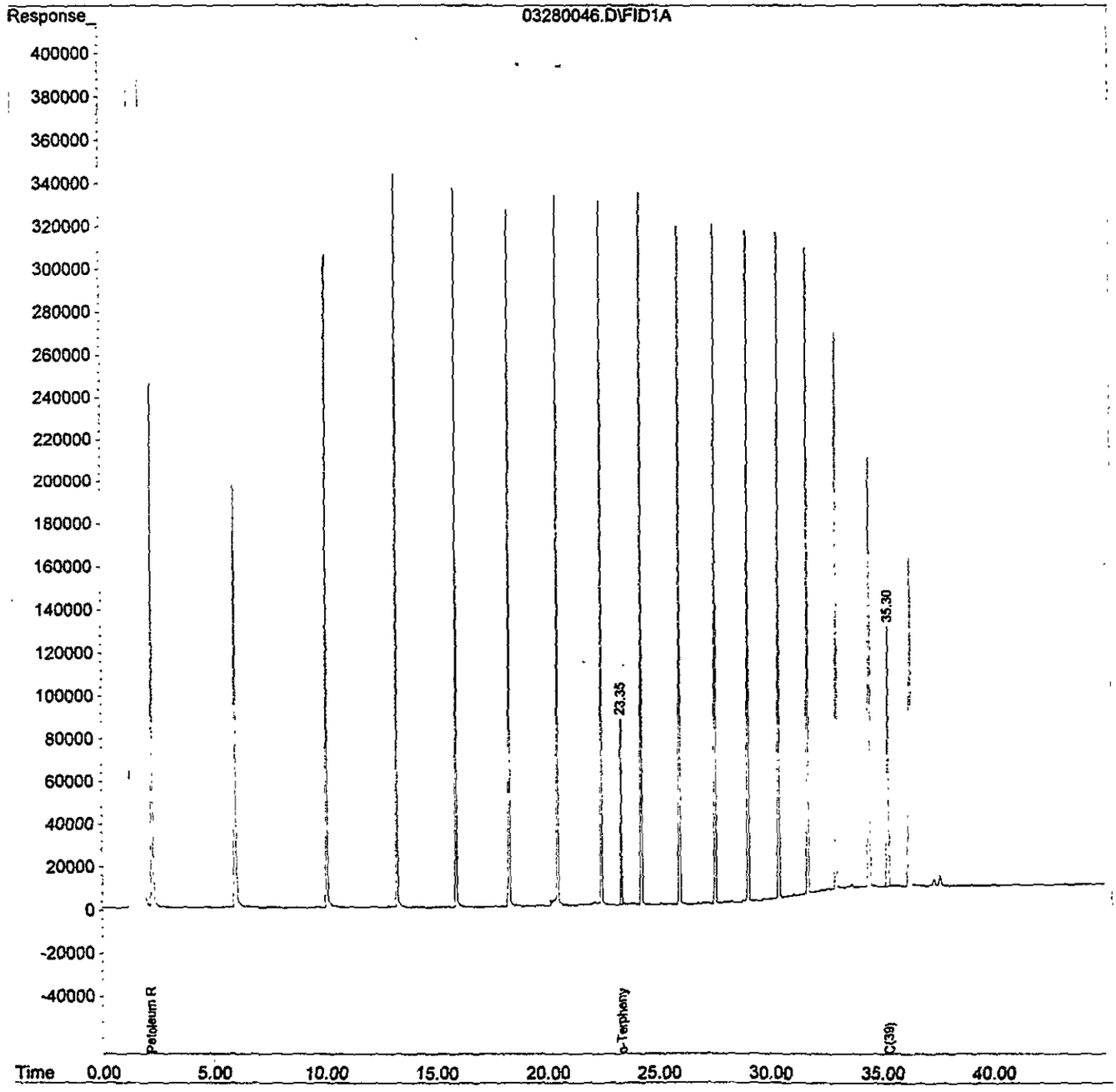
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\1\DATA\032800\03280046.D Vial: 23
Acq On : 30 Mar 2000 7:29 am Operator: MT
Sample : 4250 PHS PRO CCV Inst : DUAL FID
Misc : Multiplr: 1.00
IntFile : PRO0914.e
Quant Time: Mar 30 10:52 2000 Quant Results File: PRO0112.RES

Quant Method : C:\HPCHEM\1\METHODS\PRO0112.M (Chemstation Integrator)
Title : FL PRO
Last Update : Thu Mar 09 14:46:05 2000
Response via : Multiple Level Calibration
DataAcq Meth : PRO0112.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\032800\03280036.D Vial: 28
Acq On : 29 Mar 2000 10:33 pm Operator: MT
Sample : 4250 PHS PRO CCV Inst : DUAL FID
Misc : Multiplr: 1.00
IntFile : PRO0914.e
Quant Time: Mar 30 10:46 2000 Quant Results File: PRO0112.RES

Quant Method : C:\HPCHEM\1\METHODS\PRO0112.M (Chemstation Integrator)
Title : FL PRO
Last Update : Thu Mar 09 14:46:05 2000
Response via : Initial Calibration
DataAcq Meth : PRO0112.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) SC o-Terphenyl	23.36	2204802	52.834 ug/mlm
Spiked Amount 50.000	Recovery = 105.67%		
3) SC C(39)	35.31	5705189	148.475 ug/mlm
Spiked Amount 150.000	Recovery = 98.98%		
Target Compounds			
1) HM Petoleum Range Organics	2.15	235025182	5420.213 ug/ml

128% X
MT

NC
Sequence

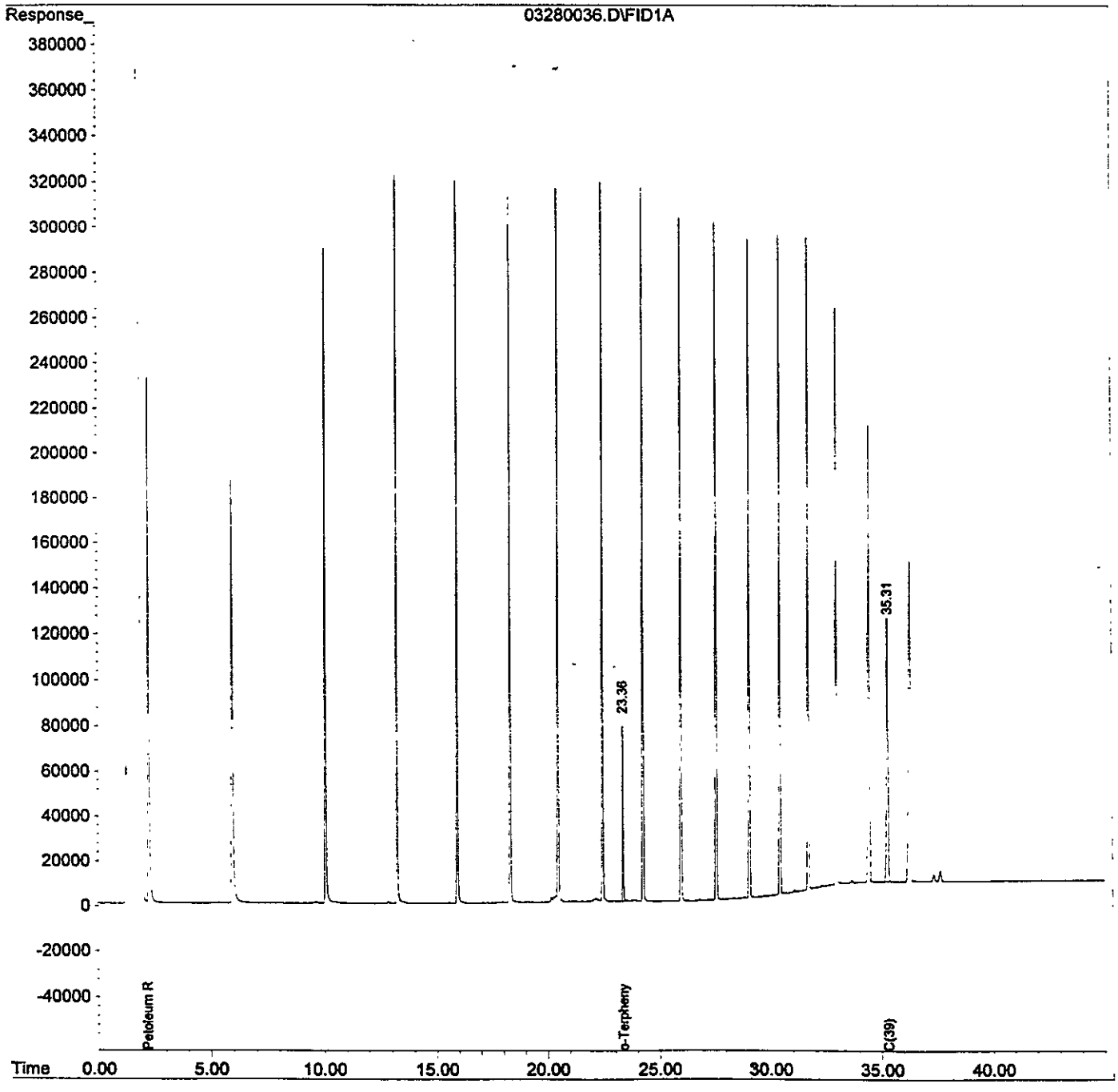
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\1\DATA\032800\03280036.D Vial: 23
Acq On : 29 Mar 2000 10:33 pm Operator: MT
Sample : 4250 PHS PRO CCV Inst : DUAL FID
Misc : Multiplr: 1.00
IntFile : PRO0914.e
Quant Time: Mar 30 10:46 2000 Quant Results File: PRO0112.RES

Quant Method : C:\HPCHEM\1\METHODS\PRO0112.M (Chemstation Integrator)
Title : FL PRO
Last Update : Thu Mar 09 14:46:05 2000
Response via : Multiple Level Calibration
DataAcq Meth : PRO0112.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File: C:\HPCHEM\1\DATA\032800\03280024.D Vial: 14
Acq On : 29 Mar 2000 11:02 am Operator: MT
Sample : 4250 PHS PRO CCV Inst : DUAL FID
Misc : Multiplr: 1.00
IntFile : PRO0914.e
Quant Time: Mar 29 11:49 2000 Quant Results File: PRO0112.RES

Quant Method : C:\HPCHEM\1\METHODS\PRO0112.M (Chemstation Integrator)
Title : FL PRO
Last Update : Thu Mar 09 14:46:05 2000
Response via : Initial Calibration
DataAcq Meth : PRO0112.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) SC o-Terphenyl	23.37	1968579	47.173 ug/mlm
Spiked Amount 50.000	Recovery =		94.35% MT
3) SC C(39)	35.31	4976559	129.513 ug/mlm
Spiked Amount 150.000	Recovery =		86.34% MT
Target Compounds			
1) HM Petoleum Range Organics	2.15	211376369	4781.169 ug/ml

112% MT

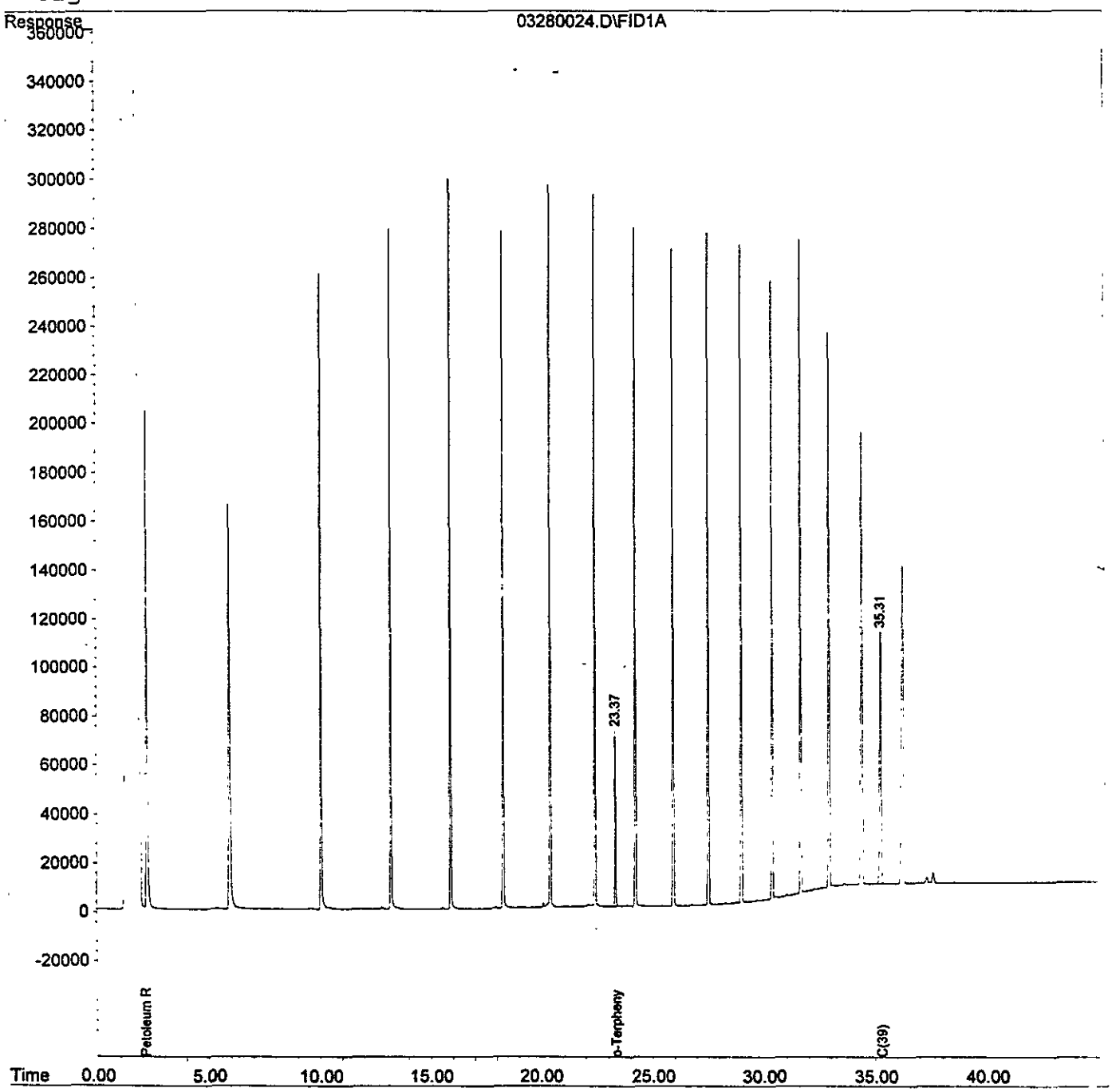
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\1\DATA\032800\03280024.D Vial: 14
Acq On : 29 Mar 2000 11:02 am Operator: MT
Sample : 4250 PHS PRO CCV Inst : DUAL FID
Misc : Multiplr: 1.00
IntFile : PRO0914.e
Quant Time: Mar 29 11:49 2000 Quant Results File: PRO0112.RES

Quant Method : C:\HPCHEM\1\METHODS\PRO0112.M (Chemstation Integrator)
Title : FL PRO
Last Update : Thu Mar 09 14:46:05 2000
Response via : Multiple Level Calibration
DataAcq Meth : PRO0112.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\032800\03280012.D Vial: 12
Acq On : 29 Mar 2000 12:17 am Operator: MT
Sample : 4250 PHS PRO CCV Inst : DUAL FID
Misc : Multiplr: 1.00
IntFile : PRO0914.e
Quant Time: Mar 29 10:58 2000 Quant Results File: PRO0112.RES

Quant Method : C:\HPCHEM\1\METHODS\PRO0112.M (Chemstation Integrator)
Title : FL PRO
Last Update : Thu Mar 09 14:46:05 2000
Response via : Initial Calibration
DataAcq Meth : PRO0112.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) SC o-Terphenyl	23.39	2113988	50.657 ug/mlm
Spiked Amount 50.000	Recovery =		101.31% ✓MT
3) SC C(39)	35.36	5411447	140.831 ug/mlm
Spiked Amount 150.000	Recovery =		93.89% ✓MT
Target Compounds			
1) HM Petoleum Range Organics	2.15	236326839	5455.386 ug/ml

1288 X
MT

Fail

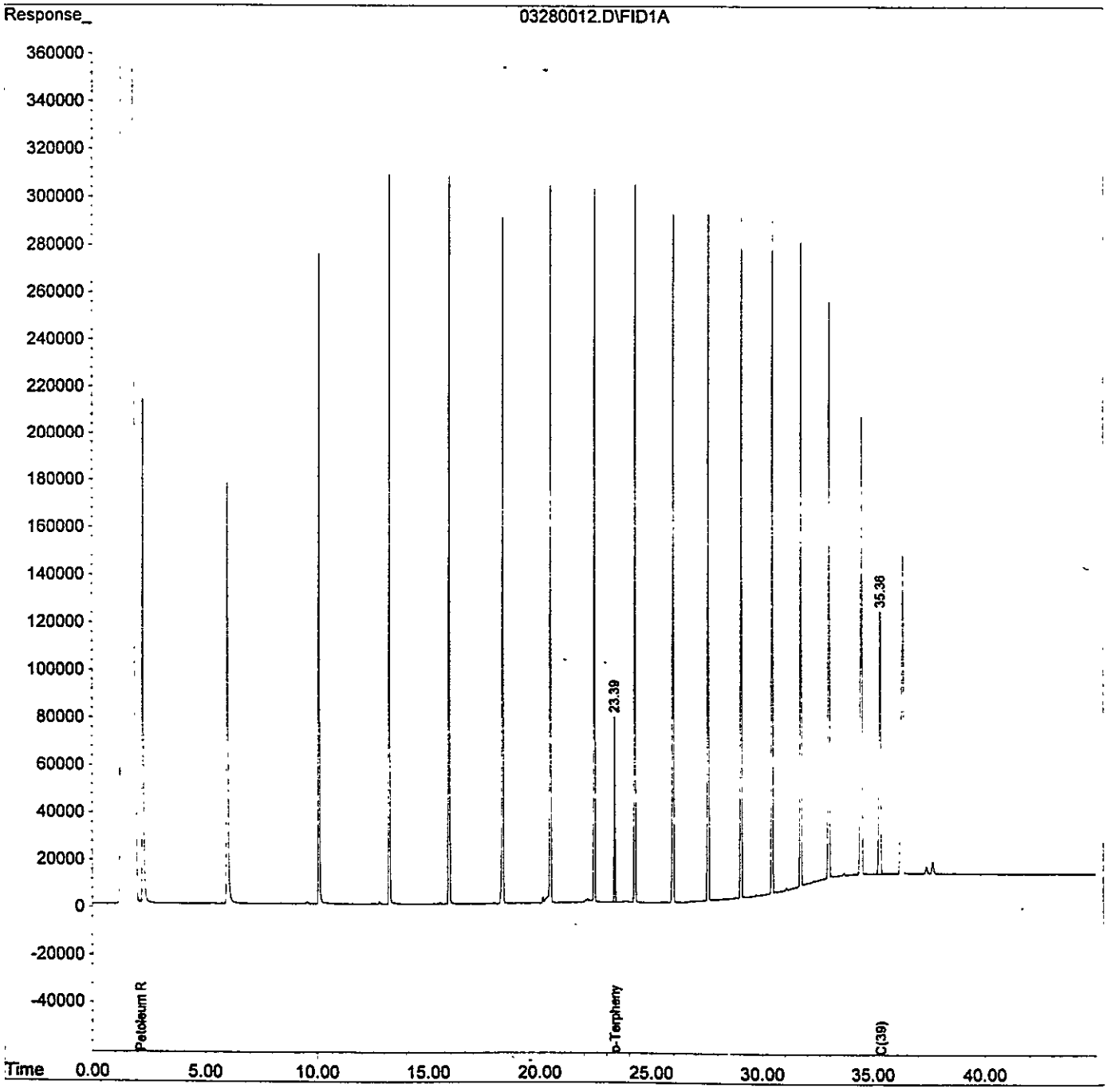
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\1\DATA\032800\03280012.D Vial: 2
Acq On : 29 Mar 2000 12:17 am Operator: MT
Sample : 4250 PHS PRO CCV Inst : DUAL FID
Misc : Multiplr: 1.00
IntFile : PRO0914.e
Quant Time: Mar 29 10:58 2000 Quant Results File: PRO0112.RES

Quant Method : C:\HPCHEM\1\METHODS\PRO0112.M (Chemstation Integrator)
Title : FL PRO
Last Update : Thu Mar 09 14:46:05 2000
Response via : Multiple Level Calibration
DataAcq Meth : PRO0112.M

Volume Inj. :
Signal Phase :
Signal Info :



ACCURA ANALYTICAL LABORATORY, INC.

Environmental Analytical Services

Standard Name: FLPRO Cal Std.
Lab Standard ID# ~~PS~~ 005V001 - 005V005
MT 1/10/00
Prepared By: MT

Date Made: 1-10-00
Expire Date: 1-10-00
Matrix: $MeCl_2$

Standard	Lot\Lab ID#	Conc.	Amount Used	Final Conc.
Florida TRPH Std.	EX-~~92096~~111 MT 1/10/00	500 ppm	100 µl	850 PHS (50 ppm)
↓	↓	↓	300 µl	2550 (150)
			500 µl	4250 (250)
			700 µl	5950 (350)
↓	↓	↓	1000 µl	8500 ↓ (500 ↓)
CTP	EX 99102-10	10,000 ppm	5 µl add to 1mL Std	50 ppm
C(39)	98A362	3000 ppm	50 µl ↓	150 ppm
$MeCl_2$	EX 99136	—		—
All Std. brought to final vol of			1mL in $MeCl_2$ MT 1/10/00	

Standard Name: FLPRO ICVS
Lab Standard ID# 005V006
Prepared By: MT

Date Made: 1-18-00
Expire Date: 1-18-00
Matrix: $MeCl_2$

Standard	Lot\Lab ID#	Conc.	Amount Used	Final Conc.
Florida TPRH Std.	500A029	500 ppm	500 µl	4250 PHS (250 ppm)
$MeCl_2$	EX00005	—	~~9500 µl~~ MT 1-18-00 ~~500 µl~~ 1445 µl	—
CTP	EX 99102-10	10,000 ppm	MT 1-18-00 5 µl	50 ppm
C39	98A362	3000 ppm	50 µl	150 ppm
	MT 1-18-00			

STPRLGFR.XLS

ACCURA ANALYTICAL LABORATORY, INC.

Environmental Analytical Services

Standard Name: FL PRO CCV
Lab Standard ID# 005V049

Date Made: 3-28-00
Expire Date: 4-04-00
Matrix: MeCl2

Prepared By: MT

Standard	Lot\Lab ID#	Conc.	Amount Used:	Final Conc.
Florida TRPH Std.	500A032-2	500 ppm	500µl	4250 ppm
OTP	EX9102-10	10,000 ↓	5 ↓	50 ↓
C(39)	98A362	300 ↓	50 ↓	150 ↓
MeCl2	EX000	—	445 ↓	—
	MT 3-28-00			

Standard Name: Ethylene glycol mono ethyl ether Int.
Lab Standard ID# 005V050

Date Made: 3-29-00
Expire Date: ~~MT 3-29-00~~ 4-05-00
Matrix: H2O

Prepared By: MT

Standard	Lot\Lab ID#	Conc.	Amount Used:	Final Conc.
2-Ethoxyethanol	98-A258	Neat	10µl	1000 ppm
H2O	—	—	9990 ↓	—
	MT 3-29-00			

ACCURA ANALYTICAL LABORATORY, INC.

Environmental Analytical Services

Standard Name: FL-PRO Surrogate Std. Date Made: 3/6/00

Lab Standard ID# FLQQE022 Expire Date: 9/6/00

Prepared By: DH Matrix: Acetone/Hexane 1:1

Standard	Lot\Lab ID#	Conc.	Amount Used:	Final Conc.
FL TRPH Surrogate Mix	EX99112-1	3000µg/mL	1250µl	150 ppm
Acetone/Hexane 1:1	EX99081/EX99065-5	—	to 25mL	

Standard Name: FL-PRO TRPH Spike Std. Date Made: 3/6/00

Lab Standard ID# FLQQED23 Expire Date: 6/6/00

Prepared By: DH Matrix: Hex/Acet 1:1

Standard	Lot\Lab ID#	Conc.	Amount Used:	Final Conc.
FL TRPH Std Mix	EX00019-7	500µg/mL	1400µl	250µg/mL
Hex/Acet 1:1	EX99081/EX99065-5	—	1400µl	

PROJECT QUALITY CONTROL RESULTS
Project 23975

		Project Control Rec				Accuracy Limits		Project Control		Precision Limits		Project Control Recoveries		Accuracy Limits		Project Control		Precision Limits	
		MS	MSD	MS	MSD	MS/MSD Recoveries		MS/MSD % Deviation		MS/MSD Deviation		LCS	LCS	LCS Recoveries		Field Dup % Deviation		Field Dup Deviation	
Method No[1]	Analyte / Component	Water		Soil[2]		Water	Soil[2]	Water	Soil[2]	Water	Soil[2]	Water	Soil[2]	Water	Soil[2]	Water	Soil[2]	Water	Soil[2]
	VOLATILES BY GC/MS					%	%			%	%			%	%			%	%
8260B	1,1,1,2-Tetrachloroethane	99	99			60-140	20-150	0%	#DIV/0!	<30	<50	104		62-108	62-108			<50	<75
8260B	1,1,1-Trichloroethane	96	96			60-140	20-150	0%	#DIV/0!	<30	<50	96		65-135	65-135			<50	<75
8260B	1,1,2,2-Tetrachloroethane	109	112			60-140	20-150	3%	#DIV/0!	<30	<50	95		64-135	64-135			<50	<75
8260B	1,1,2-Trichloroethane	103	103			60-140	20-150	0%	#DIV/0!	<30	<50	100		65-135	65-135			<50	<75
8260B	1,1-Dichloroethane	107	106			60-140	20-150	1%	#DIV/0!	<30	<50	101		62-135	62-135			<50	<75
8260B	1,1-Dichloroethene	102	99			60-140	20-150	3%	#DIV/0!	<30	<50	101		65-135	65-135			<50	<75
8260B	1,2,3-Trichlorobenzene	104	106			60-140	20-150	2%	#DIV/0!	<30	<50	94		65-147	65-147			<50	<75
8260B	1,2,3-Trichloropropane	112	118			60-140	20-150	5%	#DIV/0!	<30	<50	93		65-135	65-135			<50	<75
8260B	1,2,4-Trichlorobenzene	102	105			60-140	20-150	3%	#DIV/0!	<30	<50	95		65-145	65-145			<50	<75
8260B	1,2,4-Trimethylbenzene	104	105			60-140	20-150	1%	#DIV/0!	<30	<50	98		65-135	65-135			<50	<75
8260B	1,2-Dichloroethane	115	113			60-140	20-150	2%	#DIV/0!	<30	<50	101		58-137	58-137			<50	<75
8260B	1,2-Dichlorobenzene	104	104			60-140	20-150	0%	#DIV/0!	<30	<50	102		65-135	65-135			<50	<75
8260B	1,2-Dibromo-3-chloropropane	121	126			60-140	20-150	4%	#DIV/0!	<30	<50	93		49-135	49-135			<50	<75
8260B	1,2-Dichloropropane	108	106			60-140	20-150	2%	#DIV/0!	<30	<50	102		60-135	60-135			<50	<75
8260B	1,2-Ethylene Dibromide	103	104			60-140	20-150	1%	#DIV/0!	<30	<50	101		65-135	65-135			<50	<75
8260B	1,3,5-Trimethylbenzene	105	105			60-140	20-150	0%	#DIV/0!	<30	<50	98		62-135	62-135			<50	<75
8260B	1,3-Dichlorobenzene	101	102			60-140	20-150	1%	#DIV/0!	<30	<50	99		65-135	65-135			<50	<75
8260B	1,3-Dichloropropane	107	108			60-140	20-150	1%	#DIV/0!	<30	<50	102		65-135	65-135			<50	<75
8260B	1,4-Dichlorobenzene	99	101			60-140	20-150	2%	#DIV/0!	<30	<50	98		65-135	65-135			<50	<75
8260B	2,2-Dichloropropane	90	88			60-140	20-150	2%	#DIV/0!	<30	<50	88		65-135	65-135			<50	<75
8260B	2-Chlorotoluene	102	103			60-140	20-150	1%	#DIV/0!	<30	<50	96		63-135	63-135			<50	<75
8260B	4-Chlorotoluene	106	107			60-140	20-150	1%	#DIV/0!	<30	<50	98		64-135	64-135			<50	<75
8260B	Benzene	102	102			60-140	20-150	0%	#DIV/0!	<30	<50	99		65-135	65-135			<50	<75
8260B	Bromobenzene	101	102			60-140	20-150	1%	#DIV/0!	<30	<50	98		65-135	65-135			<50	<75
8260B	Bromochloromethane	105	104			60-140	20-150	1%	#DIV/0!	<30	<50	101		63-135	63-135			<50	<75
8260B	Bromodichloromethane	91	93			60-140	20-150	2%	#DIV/0!	<30	<50	98		65-135	65-135			<50	<75
8260B	Bromoform	108	110			60-140	20-150	2%	#DIV/0!	<30	<50	113		65-135	65-135			<50	<75
8260B	Bromomethane	63	79			60-140	20-150	23%	#DIV/0!	<30	<50	87		62-135	62-135			<50	<75
8260B	Carbon Tetrachloride	68	69			60-140	20-150	1%	#DIV/0!	<30	<50	76		52-135	52-135			<50	<75
8260B	Chlorobenzene	97	96			60-140	20-150	1%	#DIV/0!	<30	<50	102		65-135	65-135			<50	<75
8260B	Chloroethane	92	89			60-140	20-150	3%	#DIV/0!	<30	<50	102		55-135	55-135			<50	<75
8260B	Chloroform	110	108			60-140	20-150	2%	#DIV/0!	<30	<50	103		64-135	64-135			<50	<75
8260B	Chloromethane	74	78			60-140	20-150	5%	#DIV/0!	<30	<50	90		65-135	65-135			<50	<75
8260B	Cis-1,2-Dichloroethene	102	100			60-140	20-150	2%	#DIV/0!	<30	<50	99		65-135	65-135			<50	<75
8260B	Cis-1,3-Dichloropropene	98	96			60-140	20-150	2%	#DIV/0!	<30	<50	107		64-135	64-135			<50	<75
8260B	Dibromochloromethane	100	102			60-140	20-150	2%	#DIV/0!	<30	<50	103		63-135	63-135			<50	<75
8260B	Dibromomethane	118	114			60-140	20-150	3%	#DIV/0!	<30	<50	104		59-137	59-137			<50	<75
8260B	Dichlorodifluoromethane	85	80			60-140	20-150	6%	#DIV/0!	<30	<50	79		65-135	65-135			<50	<75
8260B	Ethylbenzene	104	103			60-140	20-150	1%	#DIV/0!	<30	<50	103		65-135	65-135			<50	<75
8260B	Hexachlorobutadiene	100	101			60-140	20-150	1%	#DIV/0!	<30	<50	99		65-135	65-135			<50	<75
8260B	Isopropylbenzene	104	105			60-140	20-150	1%	#DIV/0!	<30	<50	98		65-135	65-135			<50	<75
8260B	total-Xylene	102	101			60-140	20-150	1%	#DIV/0!	<30	<50	103		65-135	65-135			<50	<75
8260B	Methylene Chloride	103	102			60-140	20-150	1%	#DIV/0!	<30	<50	102		65-135	65-135			<50	<75
8260B	n-Butylbenzene	109	109			60-140	20-150	0%	#DIV/0!	<30	<50	101		65-135	65-135			<50	<75
8260B	n-Propylbenzene	109	109			60-140	20-150	0%	#DIV/0!	<30	<50	99		65-135	65-135			<50	<75
8260B	Naphthalene	114	125			60-140	20-150	9%	#DIV/0!	<30	<50	93		65-135	65-135			<50	<75
8260B	p-Isopropyltoluene	100	103			60-140	20-150	3%	#DIV/0!	<30	<50	100		65-135	65-135			<50	<75
8260B	Sec-Butylbenzene	103	104			60-140	20-150	1%	#DIV/0!	<30	<50	99		65-135	65-135			<50	<75

Notes
1) SW-846 Methods unless otherwise noted
2) Includes sediments, waste, solids

NS = Not Specified
NA = Not Applicable

PROJECT QUALITY CONTROL RESULTS
Project 23975

8260B	Styrene	101	100			60-140	20-150	1%	#DIV/0!	<30	<50	103		65-135	65-135			<50	<75
8260B	Trichloroethylene	102	101			60-140	20-150	1%	#DIV/0!	<30	<50	98		61-135	61-135			<50	<75
8260B	Tert-Butylbenzene	102	103			60-140	20-150	1%	#DIV/0!	<30	<50	101		65-135	65-135			<50	<75
8260B	Tetrachloroethylene	96	94			60-140	20-150	2%	#DIV/0!	<30	<50	103		61-135	61-135			<50	<75
8260B	Toluene	103	102			60-140	20-150	1%	#DIV/0!	<30	<50	102		64-135	64-135			<50	<75
8260B	Trans-1,2-Dichloroethene	102	99			60-140	20-150	3%	#DIV/0!	<30	<50	101		65-135	65-135			<50	<75
8260B	Trans-1,3-Dichloropropene	104	104			60-140	20-150	0%	#DIV/0!	<30	<50	103		56-135	56-135			<50	<75
8260B	Trichlorofluoromethane	106	101			60-140	20-150	5%	#DIV/0!	<30	<50	100		57-135	57-135			<50	<75
8260B	Vinyl Chloride	101	97			60-140	20-150	4%	#DIV/0!	<30	<50	97		36-144	36-144			<50	<75
8260B	Toluene-d8 (surr)	98	98			75-125	65-135	0%	#DIV/0!	NA	NA	99		NA	NA			NA	NA
8260B	4-Bromofluorobenzene (surr)	105	105			75-1225	65-135	0%	#DIV/0!	NA	NA	96		NA	NA			NA	NA
8260B	1,2-Dichloroethane-d4 (surr)	109	108			62-139	52-149	1%	#DIV/0!	NA	NA	103		NA	NA			NA	NA
	SEMI-VOLATILES BY GC/MS					%	%			%	%			%	%			%	%
8270C	Acenaphthylene	88	74			60-140	20-150	17%	#DIV/0!	<30	<50	70		47-125	37-135			<50	<75
8270C	Acenaphthene	67	56			60-140	20-150	18%	#DIV/0!	<30	<50	56		49-124	39-135			<50	<75
8270C	Anthracene	77	66			60-140	20-150	15%	#DIV/0!	<30	<50	65		45-165	35-175			<50	<75
8270C	Benzo (a) anthracene	94	86			60-140	20-150	9%	#DIV/0!	<30	<50	86		51-133	41-143			<50	<75
8270C	Benzo (a) pyrene	88	76			60-140	20-150	15%	#DIV/0!	<30	<50	78		41-125	31-135			<50	<75
8270C	Benzo (b) fluoranthene	91	81			60-140	20-150	12%	#DIV/0!	<30	<50	83		37-125	27-135			<50	<75
8270C	Benzo (g,h,i) perylene	80	61			60-140	20-150	27%	#DIV/0!	<30	<50	62		34-149	25-159			<50	<75
8270C	Chrysene	85	77			60-140	20-150	10%	#DIV/0!	<30	<50	78		55-133	45-143			<50	<75
8270C	Dibenzo (a,h) anthracene	57	46			60-140	20-150	21%	#DIV/0!	<30	<50	44		50-125	40-135			<50	<75
8270C	Fluoranthene	95	90			60-140	20-150	5%	#DIV/0!	<30	<50	87		47-125	37-135			<50	<75
8270C	Fluorene	76	69			60-140	20-150	10%	#DIV/0!	<30	<50	69		48-139	38-149			<50	<75
8270C	Indeno (1,2,3-c,d) pyrene	93	76			60-140	20-150	20%	#DIV/0!	<30	<50	79		27-160	25-170			<50	<75
8270C	Naphthalene	73	65			60-140	20-150	12%	#DIV/0!	<30	<50	61		50-125	40-135			<50	<75
8270C	Phenanthrene	83	72			60-140	20-150	14%	#DIV/0!	<30	<50	72		54-125	44-135			<50	<75
8270C	Pyrene	95	89			60-140	20-150	7%	#DIV/0!	<30	<50	86		47-136	37-146			<50	<75
8270C	Benzo (k) fluoranthene	90	78			60-140	20-150	14%	#DIV/0!	<30	<50	80		37-123	37-123			<50	<75
	METALS BY ICP					%	%			%	%			%	%			%	%
6010B	Lead	108	111			50-150	30-170	3%	#DIV/0!	<30	<50	107%		79-116	79-116			<50	<75
	PETROLEUM HYDROCARBONS					%	%			%	%			%	%			%	%
FL-PRO	TPH					50-150	30-170	#DIV/0!	#DIV/0!	<30	<50	71		75-125	70-130			<50	<75

Notes.
1) SW-846 Methods unless otherwise noted
2) Includes sediments, waste, solids

NS = Not Specified
NA = Not Applicable

ACCURA ANALYTICAL LABORATORY, INC.

Environmental Analytical Services

Metals Checklist

Project #: 23975 **Instrument Used:** Trace ICAP/ICAP/GFAA/FIMS Hg

Reviewer Questions

1. Is the ICV within ± 10% for 6010B, or 5% for 200.7? ✓
2. For Hg and GFAA, is the curve acceptable, (>0.995 correlation coefficient)? NA
3. Verified the correct dates and times are entered. ✓
4. Verified the sample results reported with the proper significant figures in the logbook and in the LIMS. ✓
5. Verified all dilution factors are taken into account for the calculation. ✓
6. Verified the RDL is correct according to dilutions and reported with the correct significant figures. ✓

Analyst Questions

7. Is the Blank <1/2 RDL? ✓ If not, has the RDL been raised or the samples reanalyzed? _____
8. Are the LCS/LCSD within limits? ✓ If not, why, or are the samples being reanalyzed? _____
9. Duplicate AAI. sample number 89506
   Is the RPD acceptable? ✓ If not, what is the reason? _____
10. MS/MSD AAI. sample number 89506
    Are the recoveries acceptable? ✓ If not, what is the reason? _____
11. Sample numbers requiring dilution? None
    Reason for dilution. _____
12. Are all special requirements on project sheet completed? NA If unable to complete, has the project manager been notified? _____
13. Any additional comments. _____

Analyst entering results in Labwonks. _____ Date: 3-30-00

Peer Reviewer: LD Date: 4/3/00

ACCURA ANALYTICAL LABORATORY, INC.

Environmental Analytical Services

Metals Digestion Log for Waters

Date: 03.23.00
Analyst: RC
Time Started: 09:50
Time Ended: 1500
Matrix: Water

BATCH #: 032300A
HNO_3 Acid Lot #: M.99176
1:1 HCL Acid Lot #: 29J
Digestion Method: 3010A
Hot Plate Temp: 95

QCS 19 Lot #: M.99124 Amount: 0.5
QCS 7 Lot #: M.99165 Amount: 0.5
ICV Sn Lot #: M.99128 Amount: 0.1
Sample Vials Lot #: D995

AAL #	Sample Volume (mL)	Conc. HNO_3	1:1 HCL	Final Volume	Dilution	Spikes Added QCS 19	Spikes Added QCS 7	Spikes Added ICV Sn	Comments
Blank	50	1.5+1.5	5.0	50.0	1:1				
LCS						✓	✓	✓	
LCSD						✓	✓	✓	
89492									
89498									
89499									
89500									
89501									
89502									
89503									
89504									
89505									
89506									
89506D									
89506MS						✓	✓	✓	
89506MSD						✓	✓	✓	
89507									
89508									
89509									
89510									
89511									
89530									
89531									
89581									
89582									
89582D1									
89582MS						✓	✓	✓	
89582MSD						✓	✓	✓	

RC 3.23.00

0197

Reviewed By: [signature] 4/20/00 3010w.dtg Page # _____

Adv Partial 23989 - DUE 4/4 - Appdx I - RCRA
Adv - 24003 - DUE 4/6 Appdx I
GEC 24008 - DUE 3/31 RCRA (89711, 712)

ACCURA ANALYTICAL LABORATORY, INC.

Environmental Analytical Services

Metals Digestion Log for Waters

Date: 03.27.00
Analyst: RL
Time Started: 0725
Time Ended: 1400
Matrix: Water

BATCH #: 032700A
HNO_3 Acid Lot #: M.99170
1:1 HCL Acid Lot #: 29J
Digestion Method: 3010A
Hot Plate Temp: 95°

QCS 19 Lot #: M.99164 Amount: 0.5
QCS 7 Lot #: M.99165 Amount: 0.5
ICV Sn Lot #: M.99128 Amount: 0.1
Sample Vials Lot #: D095

AAL #	Sample Volume (mL)	Conc. HNO_3	1:1 HCL	Final Volume	Dilution	Spikes Added QCS 19	QCS 7	ICV Sn	Comments
Blank	50.0	1.5+1.5	5.0	50.0	1.1				
LCS						✓	✓	✓	
LCSD						✓	✓	✓	
89596	23989 Appdx I								
89598									
89599									
89692	24003 Appdx I								
89693									
89694									
89695									
89629									
89629D									
89629MS						✓	✓	✓	
89629MSD						✓	✓	✓	
89696									
89697									
89698									
89699									
89700									
[redacted]	[redacted]								
89711D									
89711MS						✓	✓	✓	
89711MSD						✓	✓	✓	
89[illegible]									

23989 Appdx I

RL
3.27.00

Sample Name	File	Method	Date	Time	OpID	Type	Mode
STD1-Blank	MAR1800	WATERS	03/29/00	19:53		X	IR
STD8	MAR1800	WATERS	03/29/00	19:59		X	IR
STD3	MAR1800	WATERS	03/29/00	20:03		X	IR
STD4	MAR1800	WATERS	03/29/00	20:08		X	IR
STD2	MAR1800	WATERS	03/29/00	20:13		X	IR
icv 1	MAR1800	WATERS	03/29/00	20:20		Q	CONC
icv 2	MAR1800	WATERS	03/29/00	20:26		Q	CONC
icb	MAR1800	WATERS	03/29/00	20:33		B	CONC
ss i	MAR1800	WATERS	03/29/00	20:39		Q	CONC
ss i low	MAR1800	WATERS	03/29/00	20:46		Q	CONC
ics a	MAR1800	WATERS	03/29/00	20:52		Q	CONC
ics ab	MAR1800	WATERS	03/29/00	20:58		Q	CONC
prep blk0950	MAR1800	WATERS	03/29/00	21:06		S	CONC
lcs 032300a	MAR1800	WATERS	03/29/00	21:12		S	CONC
lcsd 032300a	MAR1800	WATERS	03/29/00	21:18		S	CONC
89497	MAR1800	WATERS	03/29/00	21:24		S	CONC
89498	MAR1800	WATERS	03/29/00	21:30		S	CONC
89499	MAR1800	WATERS	03/29/00	21:36		S	CONC
89500	MAR1800	WATERS	03/29/00	21:43		S	CONC
89501	MAR1800	WATERS	03/29/00	21:49		S	CONC
89502	MAR1800	WATERS	03/29/00	21:55		S	CONC
89503	MAR1800	WATERS	03/29/00	22:01		S	CONC
icv 1	MAR1800	WATERS	03/29/00	22:07		Q	CONC
icv 2	MAR1800	WATERS	03/29/00	22:14		Q	CONC
icb	MAR1800	WATERS	03/29/00	22:20		B	CONC
89504	MAR1800	WATERS	03/29/00	22:27		S	CONC
89505	MAR1800	WATERS	03/29/00	22:33		S	CONC
89506	MAR1800	WATERS	03/29/00	22:39		S	CONC
89506d	MAR1800	WATERS	03/29/00	22:45		S	CONC
89506ms	MAR1800	WATERS	03/29/00	22:51		S	CONC
89506msd	MAR1800	WATERS	03/29/00	22:57		S	CONC
89507	MAR1800	WATERS	03/29/00	23:04		S	CONC
89508	MAR1800	WATERS	03/29/00	23:10		S	CONC
89509	MAR1800	WATERS	03/29/00	23:16		S	CONC
89510	MAR1800	WATERS	03/29/00	23:22		S	CONC
icv 1	MAR1800	WATERS	03/29/00	23:28		Q	CONC
icv 2	MAR1800	WATERS	03/29/00	23:45		Q	CONC
icb	MAR1800	WATERS	03/29/00	23:56		B	CONC
89511	MAR1800	WATERS	03/30/00	00:02		S	CONC
89530	MAR1800	WATERS	03/30/00	00:08		S	CONC
89531	MAR1800	WATERS	03/30/00	00:15		S	CONC
89581	MAR1800	WATERS	03/30/00	00:22		S	CONC
89582	MAR1800	WATERS	03/30/00	00:28		S	CONC
89582d	MAR1800	WATERS	03/30/00	00:34		S	CONC
89582ms	MAR1800	WATERS	03/30/00	00:40		S	CONC
89582msd	MAR1800	WATERS	03/30/00	00:46		S	CONC
89497 1:4sd	MAR1800	WATERS	03/30/00	00:54		S	CONC
89497 1:1msa	MAR1800	WATERS	03/30/00	01:00		S	CONC
icv 1	MAR1800	WATERS	03/30/00	01:06		Q	CONC
icv 2	MAR1800	WATERS	03/30/00	01:13		Q	CONC
icb	MAR1800	WATERS	03/30/00	01:20		B	CONC
ss i	MAR1800	WATERS	03/30/00	01:26		Q	CONC
ss i low	MAR1800	WATERS	03/30/00	01:32		Q	CONC

Sample Name	File	Method	Date	Time	OpID	Type	Mode
ics a	MAR1800	WATERS	03/30/00	01:39		Q	CONC
ics ab	MAR1800	WATERS	03/30/00	01:45		Q	CONC

	Element	STD'lank	STD8	STD3	STD4	STD2	icv 1
1	Ag3280	.00028	1.04967				Q.2302
2	As1890	.00509			.62717		Q.1819
3	Ba4934	.00015				1.9627	.2044
4	Cd2265	-.00049				1.97689	.2023
5	Cr2677	.00044			.76108		.2003
6	Pb2203						.1998
7	Se1960						.1993

	Element	icv 2	icb	ss i	ss i low	ics a	ics ab
1	Ag3280	1.046	-.0006	Q.0001	-.0006	-.0020	.3172
2	As1890	.9832	L-.0149	Q.0246	Q-.0053	Q-.0223	1.042
3	Ba4934	1.006	.0002	.0413	.0115	.0010	.3202
4	Cd2265	1.006	.0003	.0011	.0005	-.0018	.3143
5	Cr2677	.9962	-.0004	Q.0029	Q.0006	-.0003	.3117
6	Pb2203	.9893	.0001	.0084	Q.0038	.0043	1.071
7	Se1960	.9822	.0021	.0428	Q.0155	-.0026	.5347

	Element	pre'0950	lcs'300a	lcs'300a	89497	89498	89499
1	Ag3280	-.0001	1.064	1.062	-.0013	-.0014	-.0023
2	As1890	-.0128	1.088	1.081	-.0115	-.0135	-.0112
3	Ba4934	.0000	1.078	1.083	.2146	.2211	.1437
4	Cd2265	.0002	1.080	1.088	-.0008	-.0004	-.0023
5	Cr2677	-.0003	1.061	1.070	.0490	.0524	.0427
6	Pb2203	-.0001	1.074	1.081	.0685	.0362	.0570
7	Se1960	-.0032	1.055	1.062	-.0020	.0001	.0021

	Element	89500	89501	89502	89503	icv 1	icv 2
1	Ag3280	-.0017	-.0017	-.0018	-.0019	Q.2318	1.049
2	As1890	-.0177	.0138	-.0172	-.0099	.1902	1.012
3	Ba4934	.3836	.0997	.2786	.1347	.2044	1.001
4	Cd2265	-.0015	-.0011	-.0006	-.0032	.2072	1.018
5	Cr2677	.0084	.0370	.0383	.0253	.2050	1.006
6	Pb2203	.0098	.0254	.0325	.0125	.2085	1.018
7	Se1960	-.0028	-.0031	-.0015	-.0016	.2081	1.028

	Element	icb	89504	89505	89506	89506d	89506ms
1	Ag3280	-.0010	-.0055	-.0122	-.0012	-.0012	1.054
2	As1890	L-.0115	-.0158	-.0138	-.0171	-.0140	1.015
3	Ba4934	.0002	.5327	.9781	.1668	.1681	1.225
4	Cd2265	.0005	-.0089	-.0194	-.0002	.0001	1.019
5	Cr2677	-.0009	.0746	.0489	.0287	.0290	1.045
6	Pb2203	-.0012	.0421	.0236	.0517	.0488	1.083
7	Se1960	.0002	-.0085	-.0182	.0014	.0035	.9800

Element	89506msd	89507	89508	89509	89510	icv 1
Ag3280	1.049	-.0026	-.0025	-.0018	-.0024	Q.2306
As1890	1.037	-.0150	-.0111	-.0172	.0217	Q.1867
Ba4934	1.220	.5522	.2094	.1479	.1048	.2031
Cd2265	1.041	-.0025	-.0007	.0001	-.0026	.2066
Cr2677	1.068	.0710	.1051	.0074	.0469	.2035
Pb2203	1.107	.0542	.0744	.0041	.0320	.2102
Se1960	1.001	-.0017	.0034	.0013	-.0018	.2107

Element	icv 2	icb	89511	89530	89531	89581
Ag3280	1.047	.0037	-.0007	.0345	.1899	-.0016
As1890	1.005	L-.0216	-.0162	.0296	.3576	-.0138
Ba4934	.9936	.0010	.1496	.4911	.5821	.0134
Cd2265	1.015	.0003	-.0004	.0215	.0975	.0004
Cr2677	1.001	.0018	.0101	.0631	7.947	.1565
Pb2203	1.023	L-.0058	.0022	3.264	46.65	.0123
Se1960	1.017	.0040	-.0021	.0281	.0073	.0045

Element	89582	89582d	89582ms	89582msd	894':4sd	894'1msa
Ag3280	-.0013	-.0013	1.065	1.075	-.0064	.2240
As1890	-.0126	-.0118	1.091	1.102	-.1001	.1622
Ba4934	.0105	.0105	1.094	1.101	.2182	.4159
Cd2265	.0003	.0001	1.073	1.079	.0036	.1923
Cr2677	.1696	.1919	1.219	1.231	.0452	.2405
Pb2203	.0031	.0046	1.102	1.108	.0785	.2789
Se1960	.0039	-.0022	1.074	1.080	.0357	.1962

Element	icv 1	icv 2	icb	ss i	ss i low	ics a
Ag3280	Q.2324	1.051	-.0013	Q-.0001	-.0010	-.0019
As1890	.1913	1.009	L-.0125	Q.0253	Q-.0045	Q-.0194
Ba4934	.2041	.9979	.0002	.0410	.0115	.0011
Cd2265	.2058	1.018	.0008	Q.0015	.0011	-.0017
Cr2677	.2040	1.005	-.0005	.0032	Q.0005	.0000
Pb2203	.2090	1.030	.0014	.0094	.0024	.0024
Se1960	Q.2167	1.027	H.0054	Q.0481	Q.0120	-.0018

Element	ics ab
Ag3280	.3188
As1890	1.062
Ba4934	.3184
Cd2265	.3135
Cr2677	.3134
Pb2203	1.102
Se1960	.5605

Dev	.0018	.0040	.007	.0010	.0019
RSD	1.607	3.776	.6360	.3292	.6124
1	Q.1106	Q.1105	1.066	.3118	.3119
2	Q.1094	Q.1039	1.071	.3117	.3082
3	Q.1129	Q.1033	1.079	.3100	.3097

rrors	QC Fail	QC Fail	QC Pass	QC Pass	QC Pass
alue	1.000	1.000	1.000	.3000	.3000
ange	20.00	20.00	20.00	20.00	20.00

ntStd	1	2	3	4	5	6	7
ode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
lem	Y	--	--	--	--	--	--
avlen	371.030	--	--	--	--	--	--
vge	36439	--	--	--	--	--	--
Dev	271.3540	--	--	--	--	--	--
RSD	.7446802	--	--	--	--	--	--
1	36308	--	--	--	--	--	--
2	36751	--	--	--	--	--	--
3	36258	--	--	--	--	--	--

	Sample Name	File	Method	Date	Time	OpID	Type	Mode
1	STD1-Blank	MAR1800	WATERS	03/29/00	19:53		X	IR
2	STD8	MAR1800	WATERS	03/29/00	19:59		X	IR
3	STD3	MAR1800	WATERS	03/29/00	20:03		X	IR
4	STD4	MAR1800	WATERS	03/29/00	20:08		X	IR
5	STD2	MAR1800	WATERS	03/29/00	20:13		X	IR
6	icv 1	MAR1800	WATERS	03/29/00	20:20		Q	CONC
7	icv 2	MAR1800	WATERS	03/29/00	20:26		Q	CONC
8	icb	MAR1800	WATERS	03/29/00	20:33		B	CONC
9	ss i	MAR1800	WATERS	03/29/00	20:39		Q	CONC
0	ss i low	MAR1800	WATERS	03/29/00	20:46		Q	CONC
1	ics a	MAR1800	WATERS	03/29/00	20:52		Q	CONC
2	ics ab	MAR1800	WATERS	03/29/00	20:58		Q	CONC
3	prep blk0950	MAR1800	WATERS	03/29/00	21:06		S	CONC
4	lcs 032300a	MAR1800	WATERS	03/29/00	21:12		S	CONC
5	lcsd 032300a	MAR1800	WATERS	03/29/00	21:18		S	CONC
6	89497	MAR1800	WATERS	03/29/00	21:24		S	CONC
7	89498	MAR1800	WATERS	03/29/00	21:30		S	CONC
8	89499	MAR1800	WATERS	03/29/00	21:36		S	CONC
9	89500	MAR1800	WATERS	03/29/00	21:43		S	CONC
0	89501	MAR1800	WATERS	03/29/00	21:49		S	CONC
1	89502	MAR1800	WATERS	03/29/00	21:55		S	CONC
2	89503	MAR1800	WATERS	03/29/00	22:01		S	CONC
3	icv 1	MAR1800	WATERS	03/29/00	22:07		Q	CONC
4	icv 2	MAR1800	WATERS	03/29/00	22:14		Q	CONC
5	icb	MAR1800	WATERS	03/29/00	22:20		B	CONC
6	89504	MAR1800	WATERS	03/29/00	22:27		S	CONC
7	89505	MAR1800	WATERS	03/29/00	22:33		S	CONC
8	89506	MAR1800	WATERS	03/29/00	22:39		S	CONC
9	89506d	MAR1800	WATERS	03/29/00	22:45		S	CONC
0	89506ms	MAR1800	WATERS	03/29/00	22:51		S	CONC
1	89506msd	MAR1800	WATERS	03/29/00	22:57		S	CONC
2	89507	MAR1800	WATERS	03/29/00	23:04		S	CONC
3	89508	MAR1800	WATERS	03/29/00	23:10		S	CONC
4	89509	MAR1800	WATERS	03/29/00	23:16		S	CONC
5	89510	MAR1800	WATERS	03/29/00	23:22		S	CONC
6	icv 1	MAR1800	WATERS	03/29/00	23:28		Q	CONC
7	icv 2	MAR1800	WATERS	03/29/00	23:45		Q	CONC
8	icb	MAR1800	WATERS	03/29/00	23:56		B	CONC
9	89511	MAR1800	WATERS	03/30/00	00:02		S	CONC
0	89530	MAR1800	WATERS	03/30/00	00:08		S	CONC
1	89531	MAR1800	WATERS	03/30/00	00:15		S	CONC
2	89581	MAR1800	WATERS	03/30/00	00:22		S	CONC
3	89582	MAR1800	WATERS	03/30/00	00:28		S	CONC
4	89582d	MAR1800	WATERS	03/30/00	00:34		S	CONC
5	89582ms	MAR1800	WATERS	03/30/00	00:40		S	CONC
6	89582msd	MAR1800	WATERS	03/30/00	00:46		S	CONC
7	89497 1:4sd	MAR1800	WATERS	03/30/00	00:54		S	CONC
8	89497 1:1msa	MAR1800	WATERS	03/30/00	01:00		S	CONC
9	icv 1	MAR1800	WATERS	03/30/00	01:06		Q	CONC
0	icv 2	MAR1800	WATERS	03/30/00	01:13		Q	CONC
1	icb	MAR1800	WATERS	03/30/00	01:20		B	CONC
2	ss i	MAR1800	WATERS	03/30/00	01:26		Q	CONC
3	ss i low	MAR1800	WATERS	03/30/00	01:32		Q	CONC

	Sample Name	File	Method	Date	Time	OpID	Type	Mode
4	ics a	MAR1800	WATERS	03/30/00	01:39		Q	CONC
5	ics ab	MAR1800	WATERS	03/30/00	01:45		Q	CONC

#	Element	STD'lank	STD8	STD3	STD4	STD2	icv 1
1	Ag3280	.00028	1.04967				Q.2302
2	As1890	.00509			.62717		Q.1819
3	Ba4934	.00015				1.9627	.2044
4	Cd2265	-.00049				1.97689	.2023
5	Cr2677	.00044			.76108		.2003
6	Pb2203						.1998
7	Se1960						.1993

#	Element	icv 2	icb	ss i	ss i low	ics a	ics ab
1	Ag3280	1.046	-.0006	Q.0001	-.0006	-.0020	.3172
2	As1890	.9832	L-.0149	Q.0246	Q-.0053	Q-.0223	1.042
3	Ba4934	1.006	.0002	.0413	.0115	.0010	.3202
4	Cd2265	1.006	.0003	.0011	.0005	-.0018	.3143
5	Cr2677	.9962	-.0004	Q.0029	Q.0006	-.0003	.3117
6	Pb2203	.9893	.0001	.0084	Q.0038	.0043	1.071
7	Se1960	.9822	.0021	.0428	Q.0155	-.0026	.5347

#	Element	pre'0950	lcs'300a	lcs'300a	89497	89498	89499
1	Ag3280	-.0001	1.064	1.062	-.0013	-.0014	-.0023
2	As1890	-.0128	1.088	1.081	-.0115	-.0135	-.0112
3	Ba4934	.0000	1.078	1.083	.2146	.2211	.1437
4	Cd2265	.0002	1.080	1.088	-.0008	-.0004	-.0023
5	Cr2677	-.0003	1.061	1.070	.0490	.0524	.0427
6	Pb2203	-.0001	1.074	1.081	.0685	.0362	.0570
7	Se1960	-.0032	1.055	1.062	-.0020	.0001	.0021

#	Element	89500	89501	89502	89503	icv 1	icv 2
1	Ag3280	-.0017	-.0017	-.0018	-.0019	Q.2318	1.049
2	As1890	-.0177	.0138	-.0172	-.0099	.1902	1.012
3	Ba4934	.3836	.0997	.2786	.1347	.2044	1.001
4	Cd2265	-.0015	-.0011	-.0006	-.0032	.2072	1.018
5	Cr2677	.0084	.0370	.0383	.0253	.2050	1.006
6	Pb2203	.0098	.0254	.0325	.0125	.2085	1.018
7	Se1960	-.0028	-.0031	-.0015	-.0016	.2081	1.028

#	Element	icb	89504	89505	89506	89506d	89506ms
1	Ag3280	-.0010	-.0055	-.0122	-.0012	-.0012	1.054
2	As1890	L-.0115	-.0158	-.0138	-.0171	-.0140	1.015
3	Ba4934	.0002	.5327	.9781	.1668	.1681	1.225
4	Cd2265	.0005	-.0089	-.0194	-.0002	.0001	1.019
5	Cr2677	-.0009	.0746	.0489	.0287	.0290	1.045
6	Pb2203	-.0012	.0421	.0236	.0517	.0488	1.083
7	Se1960	.0002	-.0085	-.0182	.0014	.0035	.9800

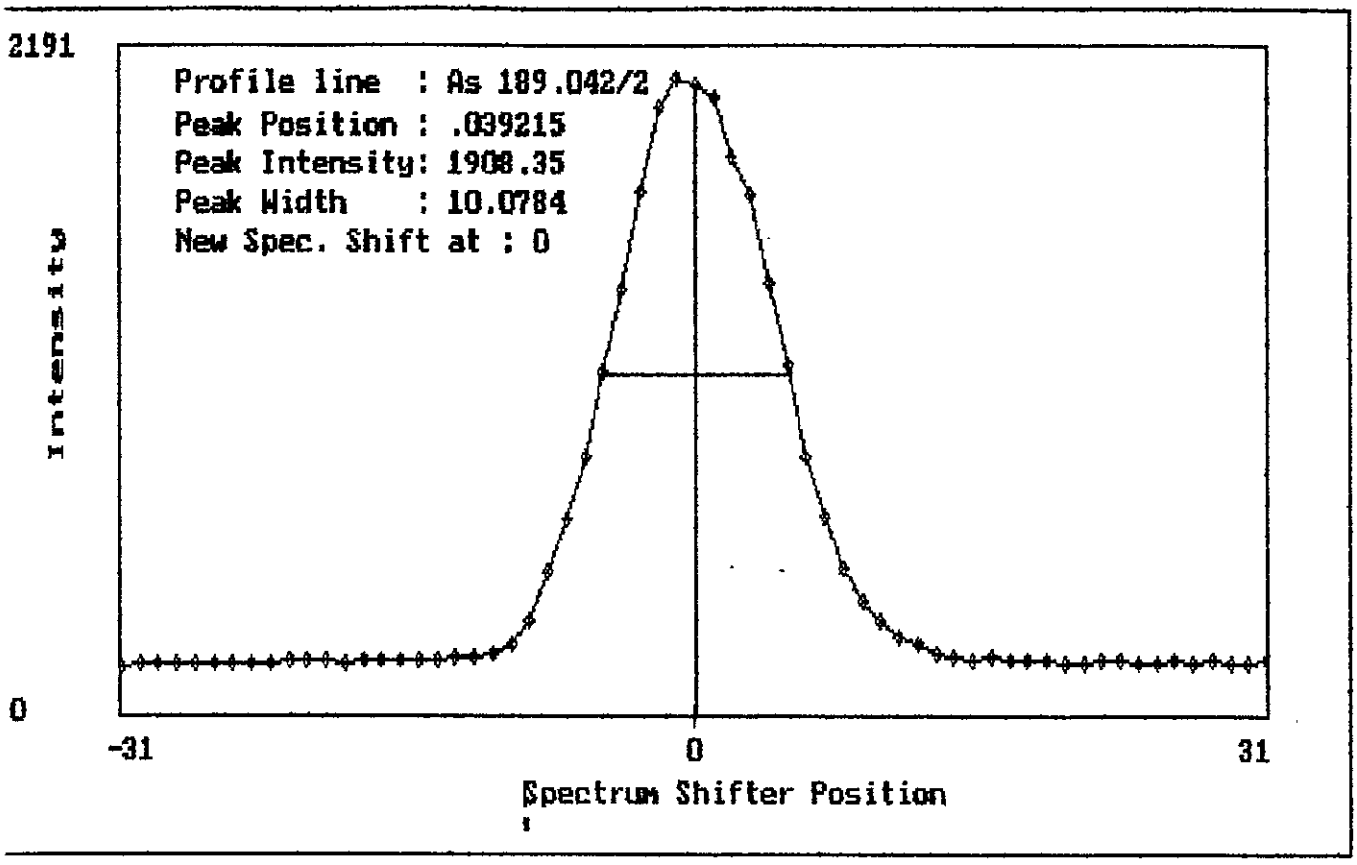
#	Element	89506msd	89507	89508	89509	89510	icv 1
1	Ag3280	1.049	-.0026	-.0025	-.0018	-.0024	Q.2306
2	As1890	1.037	-.0150	-.0111	-.0172	.0217	Q.1867
3	Ba4934	1.220	.5522	.2094	.1479	.1048	.2031
4	Cd2265	1.041	-.0025	-.0007	.0001	-.0026	.2066
5	Cr2677	1.068	.0710	.1051	.0074	.0469	.2035
6	Pb2203	1.107	.0542	.0744	.0041	.0320	.2102
7	Se1960	1.001	-.0017	.0034	.0013	-.0018	.2107

#	Element	icv 2	icb	89511	89530	89531	89581
1	Ag3280	1.047	.0037	-.0007	.0345	.1899	-.0016
2	As1890	1.005	L-.0216	-.0162	.0296	.3576	-.0138
3	Ba4934	.9936	.0010	.1496	.4911	.5821	.0134
4	Cd2265	1.015	.0003	-.0004	.0215	.0975	.0004
5	Cr2677	1.001	.0018	.0101	.0631	7.947	.1565
6	Pb2203	1.023	L-.0058	.0022	3.264	46.65	.0123
7	Se1960	1.017	.0040	-.0021	.0281	.0073	.0045

#	Element	89582	89582d	89582ms	89582msd	894':4sd	894'1msa
1	Ag3280	-.0013	-.0013	1.065	1.075	-.0064	.2240
2	As1890	-.0126	-.0118	1.091	1.102	-.1001	.1622
3	Ba4934	.0105	.0105	1.094	1.101	.2182	.4159
4	Cd2265	.0003	.0001	1.073	1.079	.0036	.1923
5	Cr2677	.1696	.1919	1.219	1.231	.0452	.2405
6	Pb2203	.0031	.0046	1.102	1.108	.0785	.2789
7	Se1960	.0039	-.0022	1.074	1.080	.0357	.1962

#	Element	icv 1	icv 2	icb	ss i	ss i low	ics a
1	Ag3280	Q.2324	1.051	-.0013	Q-.0001	-.0010	-.0019
2	As1890	.1913	1.009	L-.0125	Q.0253	Q-.0045	Q-.0194
3	Ba4934	.2041	.9979	.0002	.0410	.0115	.0011
4	Cd2265	.2058	1.018	.0008	Q.0015	.0011	-.0017
5	Cr2677	.2040	1.005	-.0005	.0032	Q.0005	.0000
6	Pb2203	.2090	1.030	.0014	.0094	.0024	.0024
7	Se1960	Q.2167	1.027	H.0054	Q.0481	Q.0120	-.0018

#	Element	ics ab
1	Ag3280	.3188
2	As1890	1.062
3	Ba4934	.3184
4	Cd2265	.3135
5	Cr2677	.3134
6	Pb2203	1.102
7	Se1960	.5605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Profile line : As 189.042/2
Peak Position : .039215
Peak Intensity: 1908.35
Peak Width : 10.0784
New Spec. Shift at : 0
Intensity
0
-31
0
31
Spectrum Shifter Position

Method: WATERS Standard: STD1-Blank
Run Time: 03/29/00 19:53:34

Elem	Ag3280	Al3082	As1890	Ba4934	Be3130	Ca3179	Cd2265
Avge	.0003	.0232	.0051	.0002	-.0034	.0013	-.0005
SDev	.0004	.0004	.0043	.0001	.0000	.0000	.0001
%RSD	143.8	1.612	84.31	52.54	.8728	3.370	26.92
#1	.0005	.0235	.0097	.0002	-.0034	.0014	-.0004
#2	.0006	.0227	.0045	.0002	-.0035	.0013	-.0006
#3	-.0002	.0233	.0011	.0001	-.0034	.0013	-.0005

Elem	Co2286	Cr2677	Cu3247	Fe2714	K_7664	Mg2790	Mn2576
Avge	-.0001	.0004	.0112	.0009	.0602	.0001	.0003
SDev	.0004	.0003	.0002	.0001	.0099	.0001	.0000
%RSD	583.9	71.58	1.491	13.57	16.47	114.3	4.537
#1	.0003	.0006	.0111	.0007	.0683	.0001	.0003
#2	-.0002	.0007	.0114	.0009	.0631	.0000	.0003
#3	-.0003	.0001	.0111	.0010	.0492	.0002	.0003

Elem	Ni2316	2203/1	2203/2	1960/1	1960/2	Sb2068	Sn1899
Avge	-.0012	.0024	-.0025	-.0101	.0020	.0004	.0000
SDev	.0004	.0121	.0029	.0038	.0032	.0001	.0006
%RSD	30.40	516.4	117.3	38.00	163.1	27.21	7586.
#1	-.0009	.0001	-.0036	-.0124	.0057	.0006	-.0004
#2	-.0016	-.0085	.0008	-.0123	-.0001	.0003	-.0002
#3	-.0012	.0155	-.0046	-.0057	.0003	.0005	.0007

Elem	Tl1908	V_2924	Zn2062
Avge	-.0015	-.0005	.0003
SDev	.0001	.0001	.0001
%RSD	6.883	22.15	48.15
#1	-.0014	-.0005	.0003
#2	-.0016	-.0004	.0004
#3	-.0016	-.0006	.0001

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	37851	--	--	--	--	--	--
SDev	134.1504	--	--	--	--	--	--
%RSD	.3544140	--	--	--	--	--	--
#1	37697	--	--	--	--	--	--
#2	37917	--	--	--	--	--	--
#3	37940	--	--	--	--	--	--

Method: WATERS Standard: STD8
Run Time: 03/29/00 19:59:43

Elem	Ag3280
Avge	1.050
SDev	.004

%RSD	.3721
#1	1.045
#2	1.050
#3	1.053

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	37500	--	--	--	--	--	--
SDev	343.2788	--	--	--	--	--	--
%RSD	.9154183	--	--	--	--	--	--
#1	37815	--	--	--	--	--	--
#2	37550	--	--	--	--	--	--
#3	37134	--	--	--	--	--	--

Method: WATERS Standard: STD3
Run Time: 03/29/00 20:03:16

Elem	Al3082	Be3130	Fe2714	Ni2316	Sb2068	Sn1899	Tl1908
Avge	.0948	3.049	.0397	.8230	.5369	.3433	.1518
SDev	.0001	.014	.0006	.0043	.0059	.0010	.0009
%RSD	.1496	.4437	1.445	.5285	1.096	.2898	.6223
#1	.0949	3.064	.0403	.8279	.5433	.3444	.1510
#2	.0946	3.046	.0392	.8218	.5355	.3429	.1528
#3	.0948	3.038	.0395	.8194	.5318	.3426	.1515

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	37066	--	--	--	--	--	--
SDev	117.5003	--	--	--	--	--	--
%RSD	.3170059	--	--	--	--	--	--
#1	36982	--	--	--	--	--	--
#2	37015	--	--	--	--	--	--
#3	37200	--	--	--	--	--	--

Method: WATERS Standard: STD4
Run Time: 03/29/00 20:08:11

Elem	As1890	Cr2677	1960/1	1960/2	V_2924
Avge	.6272	.7611	2.042	1.067	.3170
SDev	.0023	.0025	.007	.005	.0012
%RSD	.3689	.3313	.3210	.4858	.3817
#1	.6298	.7627	2.038	1.070	.3176
#2	.6263	.7624	2.050	1.071	.3178
#3	.6254	.7582	2.038	1.061	.3156

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED

Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	37259	--	--	--	--	--	--
SDev	229.2909	--	--	--	--	--	--
%RSD	.6153920	--	--	--	--	--	--
#1	37037	--	--	--	--	--	--
#2	37246	--	--	--	--	--	--
#3	37495	--	--	--	--	--	--

Method: WATERS Standard: STD2
Run Time: 03/29/00 20:13:58

Elem	Ba4934	Ca3179	Cd2265	Co2286	Cu3247	K_7664	Mg2790
Avge	1.963	.0784	1.977	1.147	.6737	.1917	.0621
SDev	.029	.0012	.029	.019	.0098	.0023	.0011
%RSD	1.470	1.563	1.447	1.630	1.461	1.222	1.748
#1	1.929	.0770	1.944	1.126	.6623	.1908	.0608
#2	1.977	.0791	1.993	1.159	.6789	.1943	.0627
#3	1.982	.0792	1.994	1.157	.6798	.1899	.0627

Elem	Mn2576	2203/1	2203/2	Zn2062
Avge	.9080	3.072	3.152	.3550
SDev	.0139	.062	.066	.0051
%RSD	1.535	2.030	2.107	1.448
#1	.8919	3.001	3.079	.3492
#2	.9162	3.121	3.209	.3589
#3	.9158	3.093	3.168	.3569

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	37415	--	--	--	--	--	--
SDev	579.7175	--	--	--	--	--	--
%RSD	1.549411	--	--	--	--	--	--
#1	38075	--	--	--	--	--	--
#2	36987	--	--	--	--	--	--
#3	37184	--	--	--	--	--	--

Method: WATERS Slope = Conc(SIR)/IR

Element	Wavelen	High std	Low std	Slope	Y-intercept	Date Standardized
Ag3280	328.068	STD8	STD1-Blank	1.90586	-.000538	03/29/00 08:13:58
Al3082	308.215	STD3	STD1-Blank	27.9398	-.646877	03/29/00 08:13:58
As1890	189.042	STD4	STD1-Blank	3.19825	-.016286	03/29/00 08:13:58
Ba4934	493.409	STD2	STD1-Blank	1.01908	-.000158	03/29/00 08:13:58
Be3130	313.042	STD3	STD1-Blank	.655109	.002250	03/29/00 08:13:58
Ca3179	317.933	STD2	STD1-Blank	25.9375	-.034036	03/29/00 08:13:58
Cd2265	226.502	STD2	STD1-Blank	1.01144	.000497	03/29/00 08:13:58
Co2286	228.616	STD2	STD1-Blank	1.74332	.000108	03/29/00 08:13:58
Cr2677	267.716	STD4	STD1-Blank	2.62936	-.001182	03/29/00 08:13:58
Cu3247	324.753	STD2	STD1-Blank	3.01908	-.033818	03/29/00 08:13:58

Element	Wavelen	High std	Low std	Slope	Y-intercept	Date Standardized
Fe2714	271.441	STD3	STD1-Blank	51.5500	-.044929	03/29/00 08:13:58
K_7664	766.491	STD2	STD1-Blank	15.2136	-.915873	03/29/00 08:13:58
Mg2790	279.078	STD2	STD1-Blank	32.2530	-.002271	03/29/00 08:13:58
Mn2576	257.610	STD2	STD1-Blank	2.20346	-.000718	03/29/00 08:13:58
Ni2316	231.604	STD3	STD1-Blank	2.42638	.003032	03/29/00 08:13:58
Pb2203	220.353	NONE	NONE	1.00000	.000000	*03/29/00 08:13:58
Se1960	196.026	NONE	NONE	1.00000	.000000	*03/29/00 08:13:58
2203/1	220.351	STD2	STD1-Blank	.651705	-.001534	03/29/00 08:13:58
2203/2	220.352	STD2	STD1-Blank	.634029	.001564	03/29/00 08:13:58
1960/1	196.021	STD4	STD1-Blank	.974757	.009843	03/29/00 08:13:58
1960/2	196.022	STD4	STD1-Blank	1.87729	-.003701	03/29/00 08:13:58
Sb2068	206.838	STD3	STD1-Blank	3.72839	-.001675	03/29/00 08:13:58
Sn1899	189.989	STD3	STD1-Blank	5.82575	-.000046	03/29/00 08:13:58
Tl1908	190.864	STD3	STD1-Blank	13.0567	.019889	03/29/00 08:13:58
V_2924	292.402	STD4	STD1-Blank	6.30068	.002996	03/29/00 08:13:58
Zn2062	206.200	STD2	STD1-Blank	5.63876	-.001639	03/29/00 08:13:58

Method: WATERS Sample Name: icv 1 Operator:
Run Time: 03/29/00 20:20:08
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1890	Ba4934	Be3130	Ca3179	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	Q.2302	Q.2303	Q.1819	.2044	.1979	Q.2161	.2023
SDev	.0006	.0169	.0020	.0007	.0009	.0015	.0004
%RSD	.2712	7.347	1.084	.3227	.4343	.6929	.1927
#1	Q.2306	Q.2494	Q.1799	.2050	.1988	Q.2177	.2028
#2	Q.2305	Q.2173	Q.1820	.2045	.1976	Q.2148	.2022
#3	Q.2295	Q.2242	Q.1838	.2037	.1972	Q.2157	.2020
Errors	QC Fail	QC Fail	QC Fail	QC Pass	QC Pass	QC Fail	QC Pass
Value	.2000	.2000	.2000	.2000	.2000	.2000	.2000
Range	5.500	5.500	5.500	5.500	5.500	5.500	5.500

Elem	Co2286	Cr2677	Cu3247	Fe2714	K_7664	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.2003	.2003	.2025	.2037	2.086	.1975	.2015
SDev	.0009	.0013	.0010	.0063	.068	.0013	.0009
%RSD	.4724	.6417	.4846	3.091	3.265	.6578	.4343
#1	.2014	.2018	.2030	.1967	Q2.163	.1990	.2025
#2	.1997	.1995	.2031	.2091	2.061	.1967	.2012
#3	.1999	.1995	.2013	.2052	2.033	.1969	.2008
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.2000	.2000	.2000	.2000	2.000	.2000	.2000
Range	5.500	5.500	5.500	5.500	5.500	5.500	5.500

Elem	Ni2316	Pb2203	Se1960	2203/1	2203/2	1960/1	1960/2
Units	ppm						
Avge	.1980	.1998	.1993	.1982	.2023	.1979	.2013
SDev	.0016	.0019	.0009	.0024	.0026	.0021	.0033
%RSD	.7868	.9657	.4300	1.183	1.289	1.044	1.623
#1	.1997	.1995	.1994	.1967	.2044	.1963	.2050
#2	.1977	.2019	.2000	.2009	.2031	.2002	.1990
#3	.1967	.1981	.1983	.1971	.1994	.1973	.1998
Errors	QC Pass	QC Pass	QC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK
Value	.2000	.2000	.2000				
Range	5.500	5.500	5.500				

Elem	Sb2068	Sn1899	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm
Avge	Q.1879	Q.1182	.2024	.1977	.2048
SDev	.0021	.0037	.0076	.0012	.0016
%RSD	1.105	3.128	3.755	.6169	.7881
#1	.1896	Q.1198	.2004	.1984	.2066
#2	Q.1856	Q.1209	.1959	.1985	.2034
#3	Q.1885	Q.1140	.2107	.1963	.2045
Errors	QC Fail	QC Fail	QC Pass	QC Pass	QC Pass

Value	.2000	.2000	.2000	.2000	.2000		
Range	5.500	5.500	5.500	5.500	5.500		
IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	37282	--	--	--	--	--	--
SDev	241.5844	--	--	--	--	--	--
%RSD	.6479920	--	--	--	--	--	--
#1	37004	--	--	--	--	--	--
#2	37441	--	--	--	--	--	--
#3	37401	--	--	--	--	--	--

Method: WATERS Sample Name: icv 2 Operator:
Run Time: 03/29/00 20:26:53
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1890	Ba4934	Be3130	Ca3179	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.046	1.029	.9832	1.006	.9811	Q1.106	1.007
SDev	.002	.006	.0064	.001	.0033	.005	.004
%RSD	.2241	.6165	.6489	.1360	.3409	.4382	.4449
#1	1.043	1.029	.9771	1.006	.9775	Q1.102	1.002
#2	1.046	1.035	.9826	1.007	.9817	Q1.105	1.006
#3	1.048	1.022	.9899	1.004	.9841	Q1.111	1.011
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Fail	QC Pass
Value	1.000	1.000	1.000	1.000	1.000	1.000	1.000
Range	5.500	5.500	5.500	5.500	5.500	5.500	5.500

Elem	Co2286	Cr2677	Cu3247	Fe2714	K_7664	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.9975	.9962	1.024	1.040	Q11.59	.9769	.9977
SDev	.0021	.0027	.002	.010	.17	.0095	.0026
%RSD	.2133	.2707	.2096	.9319	1.451	.9688	.2616
#1	.9952	.9935	1.026	1.051	Q11.60	.9671	.9951
#2	.9980	.9963	1.022	1.033	Q11.42	.9775	.9978
#3	.9993	.9989	1.023	1.035	Q11.75	.9860	1.000
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Fail	QC Pass	QC Pass
Value	1.000	1.000	1.000	1.000	10.00	1.000	1.000
Range	5.500	5.500	5.500	5.500	5.500	5.500	5.500

Elem	Ni2316	Pb2203	Se1960	2203/1	2203/2	1960/1	1960/2
Units	ppm						
Avge	.9877	.9893	.9822	.9900	.9873	.9768	.9925
SDev	.0030	.0001	.0069	.0021	.0038	.0060	.0098
%RSD	.3069	.0142	.7043	.2080	.3804	.6117	.9841
#1	.9842	.9894	.9831	.9895	.9884	.9757	.9973
#2	.9898	.9892	.9887	.9882	.9904	.9832	.9989
#3	.9890	.9895	.9749	.9923	.9831	.9714	.9813
Errors	QC Pass	QC Pass	QC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK
Value	1.000	1.000	1.000				
Range	5.500	5.500	5.500				

Elem	Sb2068	Sn1899	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm
Avge	.9548	.9643	1.006	.9794	1.020
SDev	.0044	.0051	.009	.0013	.004
%RSD	.4595	.5290	.9054	.1290	.3513
#1	.9558	.9585	1.002	.9780	1.016
#2	.9500	.9665	1.016	.9805	1.020
#3	.9587	.9679	.9991	.9796	1.023
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass

Value	1.000	1.000	1.000	1.000	1.000		
Range	5.500	5.500	5.500	5.500	5.500		
IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	37575	--	--	--	--	--	--
SDev	133.6650	--	--	--	--	--	--
%RSD	.3557254	--	--	--	--	--	--
#1	37555	--	--	--	--	--	--
#2	37453	--	--	--	--	--	--
#3	37718	--	--	--	--	--	--

Analysis Report Blank Sample 03/29/00 08:39:54 PM page 1

Method: WATERS Sample Name: icb Operator:
Run Time: 03/29/00 20:33:48
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1890	Ba4934	Be3130	Ca3179	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0006	.0295	L-.0149	.0002	.0002	-.0013	.0003
SDev	.0003	.0125	.0039	.0001	.0000	.0007	.0004
%RSD	45.43	42.22	26.48	27.25	9.661	53.92	136.9
#1	-.0004	.0169	L-.0104	.0002	.0002	-.0016	.0007
#2	-.0005	.0299	L-.0163	.0003	.0002	-.0018	-.0002
#3	-.0009	.0418	L-.0179	.0002	.0002	-.0005	.0004
Errors	LC Pass	LC Pass	LC Low	LC Pass	LC Pass	LC Pass	LC Pass
High	.0050	.0500	.0050	.0050	.0015	.0500	.0015
Low	-.0050	-.0500	-.0050	-.0050	-.0015	-.0500	-.0015

Elem	Co2286	Cr2677	Cu3247	Fe2714	K_7664	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0006	-.0004	.0008	-.0240	L-.1834	-.0078	.0003
SDev	.0011	.0001	.0005	.0086	.0910	.0025	.0002
%RSD	178.5	18.88	60.22	35.90	49.62	32.38	60.36
#1	-.0018	-.0004	.0012	-.0267	L-.1645	-.0093	.0003
#2	-.0002	-.0004	.0003	-.0310	L-.1033	-.0049	.0001
#3	.0002	-.0005	.0011	-.0144	L-.2823	-.0092	.0005
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Low	LC Pass	LC Pass
High	.0050	.0050	.0025	.0500	.1000	.0500	.0050
Low	-.0050	-.0050	-.0025	-.0500	-.1000	-.0500	-.0050

Elem	Ni2316	Pb2203	Se1960	2203/1	2203/2	1960/1	1960/2
Units	ppm						
Avge	-.0003	.0001	.0021	-.0018	.0032	.0006	.0045
SDev	.0014	.0013	.0043	.0028	.0019	.0040	.0057
%RSD	436.0	1004.	202.5	158.0	59.87	632.2	126.1
#1	-.0009	-.0007	H.0052	-.0036	.0044	.0024	.0101
#2	-.0013	.0016	-.0028	.0015	.0010	-.0039	-.0013
#3	.0013	-.0005	.0041	-.0032	.0040	.0034	.0048
Errors	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High	.0050	.0025	.0050				
Low	-.0050	-.0025	-.0050				

Elem	Sb2068	Sn1899	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm
Avge	.0010	.0016	H.0050	-.0000	-.0001
SDev	.0019	.0020	.0021	.0010	.0002
%RSD	196.6	124.9	42.77	5712.	283.9
#1	.0007	.0019	H.0053	-.0011	.0000
#2	-.0008	.0034	H.0069	.0001	.0000
#3	H.0030	-.0005	H.0027	.0010	-.0003
Errors	LC Pass	LC Pass	LC High	LC Pass	LC Pass

High	.0025	.0500	.0010	.0050	.0100		
Low	-.0025	-.0500	-.0020	-.0050	-.0100		
IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	36969	--	--	--	--	--	--
SDev	194.0825	--	--	--	--	--	--
%RSD	.5249870	--	--	--	--	--	--
#1	36751	--	--	--	--	--	--
#2	37033	--	--	--	--	--	--
#3	37123	--	--	--	--	--	--

Method: WATERS Sample Name: ss i Operator:
Run Time: 03/29/00 20:39:58
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1890	Ba4934	Be3130	Ca3179	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	Q.0001	Q.0729	Q.0246	.0413	.0010	.0235	.0011
SDev	.0000	.0121	.0010	.0005	.0001	.0020	.0004
%RSD	40.37	16.64	3.965	1.172	5.023	8.691	36.25
#1	Q.0001	Q.0702	Q.0236	.0410	.0011	.0212	Q.0013
#2	Q.0001	Q.0623	Q.0248	.0410	.0010	.0252	Q.0006
#3	Q.0000	Q.0861	Q.0255	.0418	.0010	.0240	Q.0013
Errors	QC Fail	QC Fail	QC Fail	QC Pass	QC Pass	NOCHECK	QC Pass
Value	.0010	.0400	.0400	.0400	.0010		.0010
Range	20.00	20.00	20.00	20.00	20.00		20.00

Elem	Co2286	Cr2677	Cu3247	Fe2714	K_7664	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0100	Q.0029	.0055	Q.0062	-.2003	-.0063	.0104
SDev	.0007	.0003	.0006	.0171	.0918	.0018	.0001
%RSD	7.401	12.25	11.78	276.5	45.85	28.45	1.448
#1	.0091	Q.0027	.0056	Q-.0130	-.1931	-.0084	.0103
#2	.0106	.0033	.0048	Q.0118	-.1122	-.0057	.0102
#3	.0102	Q.0026	Q.0061	.0197	-.2954	-.0049	.0105
Errors	QC Pass	QC Fail	QC Pass	QC Fail	NOCHECK	NOCHECK	QC Pass
Value	.0100	.0040	.0050	.0200			.0100
Range	20.00	20.00	20.00	20.00			20.00

Elem	Ni2316	Pb2203	Se1960	2203/1	2203/2	1960/1	1960/2
Units	ppm						
Avge	.0092	.0085	.0428	.0072	.0101	.0436	.0405
SDev	.0002	.0019	.0036	.0025	.0039	.0052	.0016
%RSD	2.086	21.93	8.333	34.31	39.11	11.93	4.016
#1	.0093	.0104	.0387	.0099	.0106	.0376	.0403
#2	.0094	Q.0067	.0445	.0068	.0059	.0468	.0391
#3	.0090	.0082	.0453	.0050	.0137	.0464	.0423

Errors	QC Pass	QC Pass	QC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK
Value	.0100	.0100	.0400				
Range	20.00	20.00	20.00				
Elem	Sb2068	Sn1899	T11908	V_2924	Zn2062		
Units	ppm	ppm	ppm	ppm	ppm		
Avge	.0092	.0024	.0438	.0097	.0109		
SDev	.0031	.0024	.0011	.0005	.0004		
%RSD	33.47	97.68	2.430	4.852	3.874		
#1	Q.0057	.0051	.0436	.0093	.0104		
#2	.0108	.0012	.0428	.0096	.0111		
#3	.0112	.0009	.0449	.0102	.0111		

Errors	QC Pass	NOCHECK	QC Pass	QC Pass	QC Pass		
Value	.0100		.0400	.0100	.0100		
Range	20.00		20.00	20.00	20.00		
IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	36962	--	--	--	--	--	--
SDev	271.2606	--	--	--	--	--	--
%RSD	.7338972	--	--	--	--	--	--
#1	37047	--	--	--	--	--	--
#2	37180	--	--	--	--	--	--
#3	36658	--	--	--	--	--	--

Method: WATERS Sample Name: ss i low Operator:
Run Time: 03/29/00 20:46:12
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1890	Ba4934	Be3130	Ca3179	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0006	.0473	Q-.0053	.0115	.0002	.0087	.0005
SDev	.0003	.0083	.0018	.0001	.0000	.0008	.0005
%RSD	61.72	17.62	34.78	.6549	15.08	9.351	96.54
#1	-.0009	.0406	Q-.0064	.0115	.0002	.0087	-.0001
#2	-.0003	.0448	Q-.0062	.0114	.0003	.0079	.0009
#3	-.0004	.0567	Q-.0032	.0116	.0003	.0095	.0007

Errors	NOCHECK	NOCHECK	QC Fail	QC Pass	NOCHECK	NOCHECK	NOCHECK
Value			.0100	.0100			
Range			20.00	20.00			
Elem	Co2286	Cr2677	Cu3247	Fe2714	K_7664	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0022	Q.0006	.0016	-.0301	-.1391	-.0084	.0029
SDev	.0005	.0003	.0005	.0077	.0642	.0031	.0000
%RSD	21.80	42.20	33.00	25.53	46.19	37.55	1.483
#1	.0028	Q.0005	.0014	-.0227	-.1869	-.0119	.0029

#2	Q.0018	Q.0004	.0012	-.0380	-.1642	-.0057	.0028
#3	.0021	.0009	.0021	-.0296	-.0661	-.0075	.0029
Errors	QC Pass	QC Fail	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC Pass
Value	.0025	.0010					.0025
Range	20.00	20.00					20.00
Elem	Ni2316	Pb2203	Se1960	2203/1	2203/2	1960/1	1960/2
Units	ppm						
Avge	.0024	Q.0038	Q.0155	.0033	.0041	.0163	.0132
SDev	.0020	.0016	.0049	.0030	.0022	.0064	.0020
%RSD	80.71	42.47	31.69	92.23	54.73	39.07	15.18
#1	Q.0017	.0020	Q.0155	.0004	.0044	.0165	.0129
#2	Q.0047	Q.0051	Q.0204	.0064	.0017	.0226	.0154
#3	Q.0009	Q.0044	.0106	.0031	.0061	.0098	.0114
Errors	QC Pass	QC Fail	QC Fail	NOCHECK	NOCHECK	NOCHECK	NOCHECK
Value	.0025	.0025	.0100				
Range	20.00	20.00	20.00				

Elem	Sb2068	Sn1899	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm
Avge	.0032	.0016	.0100	.0024	.0018
SDev	.0014	.0084	.0061	.0005	.0001
%RSD	44.53	532.6	61.71	20.26	4.540
#1	.0024	-.0081	Q.0160	.0021	.0017
#2	.0024	.0073	Q.0038	.0030	.0019
#3	.0049	.0055	.0100	.0021	.0017
Errors	NOCHECK	NOCHECK	QC Pass	QC Pass	NOCHECK
Value			.0100	.0025	
Range			20.00	20.00	

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	37027	--	--	--	--	--	--
SDev	94.51102	--	--	--	--	--	--
%RSD	.2552512	--	--	--	--	--	--
#1	37025	--	--	--	--	--	--
#2	37122	--	--	--	--	--	--
#3	36933	--	--	--	--	--	--

Method: WATERS Sample Name: ics a Operator:
Run Time: 03/29/00 20:52:27
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1890	Ba4934	Be3130	Ca3179	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0020	51.24	Q-.0223	.0010	-.0000	50.46	-.0018
SDev	.0003	.69	.0023	.0001	.0000	.58	.0002
%RSD	12.98	1.355	10.50	9.963	77.83	1.154	9.990

#1	-.0021	51.64	Q-.0249	.0011	-.0001	50.81	-.0017
#2	-.0021	51.65	Q-.0205	.0009	-.0000	50.78	-.0020
#3	-.0017	50.44	Q-.0214	.0010	-.0000	49.78	-.0018
Errors	QC Pass	QC Pass	QC Fail	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0050	50.00	.0050	.0050	.0015	50.00	.0025
Range	300.0	20.00	300.0	300.0	300.0	20.00	300.0
Elem	Co2286	Cr2677	Cu3247	Fe2714	K_7664	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0005	-.0003	.0025	50.43	Q-.1621	53.42	.0040
SDev	.0006	.0005	.0008	.70	.0586	.76	.0002
%RSD	126.5	142.3	32.14	1.384	36.12	1.427	4.718
#1	.0001	-.0008	.0033	50.85	Q-.1372	53.90	.0042
#2	-.0011	-.0002	.0027	50.82	Q-.2290	53.81	.0039
#3	-.0005	.0001	.0017	49.62	Q-.1202	52.54	.0038
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Fail	QC Pass	QC Pass
Value	.0050	.0050	.0050	50.00	.0500	50.00	.0050
Range	300.0	300.0	300.0	20.00	300.0	20.00	300.0
Elem	Ni2316	Pb2203	Se1960	2203/1	2203/2	1960/1	1960/2
Units	ppm						
Avge	-.0001	.0043	-.0026	.0057	.0007	-.0053	.0022
SDev	.0009	.0023	.0081	.0023	.0028	.0103	.0065
%RSD	732.3	54.13	308.7	39.90	377.5	193.2	298.6
#1	.0002	.0065	-.0094	.0082	.0025	-.0118	-.0053
#2	.0006	.0045	-.0047	.0053	.0022	-.0107	.0066
#3	-.0012	.0019	.0063	.0037	-.0025	.0065	.0052
Errors	QC Pass	QC Pass	QC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK
Value	.0050	.0050	.0050				
Range	300.0	300.0	300.0				
Elem	Sb2068	Sn1899	T11908	V_2924	Zn2062		
Units	ppm	ppm	ppm	ppm	ppm		
Avge	.0033	.0033	.0080	.0001	.0018		
SDev	.0028	.0032	.0042	.0004	.0003		
%RSD	84.45	99.80	52.70	332.4	17.73		
#1	.0002	.0023	.0077	-.0003	.0022		
#2	.0054	.0069	.0124	.0001	.0016		
#3	.0043	.0006	.0040	.0005	.0018		
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass		
Value	.0050	.0050	.0050	.0050	.0050		
Range	300.0	300.0	300.0	300.0	300.0		

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	37247	--	--	--	--	--	--

SDev	652.3673	--	--	--	--	--	--
%RSD	1.751462	--	--	--	--	--	--
#1	36710	--	--	--	--	--	--
#2	37058	--	--	--	--	--	--
#3	37973	--	--	--	--	--	--

Method: WATERS Sample Name: ics ab Operator:
Run Time: 03/29/00 20:58:42
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1890	Ba4934	Be3130	Ca3179	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.3172	52.72	1.042	.3202	.1040	51.73	.3143
SDev	.0013	.06	.009	.0004	.0002	.13	.0013
%RSD	.3927	.1063	.9076	.1242	.2216	.2510	.3979
#1	.3171	52.69	1.044	.3202	.1040	51.73	.3137
#2	.3159	52.69	1.031	.3197	.1038	51.60	.3134
#3	.3184	52.79	1.050	.3205	.1042	51.86	.3157
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.3000	50.00	1.000	.3000	.1000	50.00	.3000
Range	20.00	20.00	20.00	20.00	20.00	20.00	20.00

Elem	Co2286	Cr2677	Cu3247	Fe2714	K_7664	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.3155	.3117	.3302	51.73	Q29.94	54.69	.2157
SDev	.0012	.0011	.0011	.12	.19	.09	.0005
%RSD	.3686	.3466	.3248	.2235	.6199	.1696	.2365
#1	.3164	.3125	.3299	51.75	Q30.02	54.71	.2156
#2	.3142	.3105	.3294	51.61	Q29.73	54.59	.2153
#3	.3159	.3121	.3315	51.84	Q30.07	54.77	.2163
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Fail	QC Pass	QC Pass
Value	.3000	.3000	.3000	50.00	20.00	50.00	.2000
Range	20.00	20.00	20.00	20.00	20.00	20.00	20.00

Elem	Ni2316	Pb2203	Se1960	2203/1	2203/2	1960/1	1960/2
Units	ppm						
Avge	.3100	1.071	.5347	1.074	1.065	.5329	.5377
SDev	.0016	.005	.0026	.008	.001	.0063	.0057
%RSD	.5114	.4895	.4781	.7612	.0732	1.186	1.068
#1	.3094	1.066	.5352	1.065	1.065	.5361	.5328
#2	.3087	1.076	.5370	1.081	1.064	.5371	.5363
#3	.3117	1.072	.5320	1.075	1.065	.5257	.5440
Errors	QC Pass	QC Pass	QC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK
Value	.3000	1.000	.5000				
Range	20.00	20.00	20.00				

Elem	Sb2068	Sn1899	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm
Avge	Q.1091	Q.1073	1.071	.3110	.3162

SDev	.0014	.0051	.008	.0005	.0016
%RSD	1.270	4.717	.7575	.1626	.5205
#1	Q.1075	Q.1065	1.079	.3111	.3144
#2	Q.1098	Q.1027	1.063	.3105	.3168
#3	Q.1100	Q.1127	1.070	.3114	.3176
Errors	QC Fail	QC Fail	QC Pass	QC Pass	QC Pass
Value	1.000	1.000	1.000	.3000	.3000
Range	20.00	20.00	20.00	20.00	20.00

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	37185	--	--	--	--	--	--
SDev	94.62029	--	--	--	--	--	--
%RSD	.2544582	--	--	--	--	--	--
#1	37081	--	--	--	--	--	--
#2	37266	--	--	--	--	--	--
#3	37208	--	--	--	--	--	--

Method: WATERS Sample Name: prep blk0950 Operator:
Run Time: 03/29/00 21:06:06
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1890	Ba4934	Be3130	Ca3179	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0001	.0982	-.0128	.0000	-.0001	.0413	.0002
SDev	.0002	.0112	.0023	.0001	.0001	.0006	.0001
%RSD	136.1	11.38	17.74	250.8	87.05	1.505	81.49
#1	.0000	.1111	-.0107	-.0000	-.0002	.0418	.0002
#2	-.0001	.0912	-.0152	.0002	-.0001	.0415	.0000
#3	-.0003	.0923	-.0125	-.0000	-.0000	.0406	.0003

Elem	Co2286	Cr2677	Cu3247	Fe2714	K_7664	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0006	-.0003	-.0001	-.0012	-.0905	-.0029	.0004
SDev	.0009	.0003	.0009	.0017	.0920	.0036	.0002
%RSD	148.9	86.46	858.6	145.5	101.7	125.2	38.81
#1	-.0016	-.0004	.0001	-.0009	-.1462	-.0067	.0004
#2	.0001	-.0000	.0007	.0004	.0157	.0004	.0006
#3	-.0002	-.0006	-.0011	-.0030	-.1410	-.0023	.0002

Elem	Ni2316	Pb2203	Se1960	2203/1	2203/2	1960/1	1960/2
Units	ppm						
Avge	-.0003	-.0002	-.0032	-.0027	.0042	-.0052	.0000
SDev	.0007	.0027	.0023	.0038	.0027	.0055	.0042
%RSD	219.9	1700.	71.33	137.7	65.42	107.5	20920.
#1	-.0010	-.0015	-.0052	-.0058	.0063	-.0100	.0039
#2	-.0002	.0030	-.0007	.0015	.0051	.0009	-.0045
#3	.0003	-.0019	-.0038	-.0039	.0011	-.0063	.0006

Elem	Sb2068	Sn1899	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm
Avge	.0023	.0062	-.0001	-.0002	-.0007
SDev	.0013	.0039	.0080	.0005	.0003
%RSD	53.08	62.62	13200.	226.1	37.13
#1	.0034	.0028	-.0078	-.0001	-.0006
#2	.0027	.0052	-.0005	.0002	-.0010
#3	.0010	.0104	.0082	-.0008	-.0006

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	36515	--	--	--	--	--	--
SDev	302.4020	--	--	--	--	--	--
%RSD	.8281584	--	--	--	--	--	--
#1	36273	--	--	--	--	--	--
#2	36418	--	--	--	--	--	--
#3	36854	--	--	--	--	--	--

Method: WATERS Sample Name: lcs 032300a Operator:
Run Time: 03/29/00 21:12:16
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1890	Ba4934	Be3130	Ca3179	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.064	1.125	1.088	1.078	1.068	1.136	1.080
SDev	.002	.011	.001	.001	.002	.002	.002
%RSD	.1407	.9792	.1329	.0852	.1422	.2056	.1426
#1	1.064	1.117	1.089	1.079	1.067	1.139	1.082
#2	1.065	1.120	1.087	1.079	1.070	1.136	1.079
#3	1.062	1.137	1.087	1.077	1.067	1.134	1.079

Elem	Co2286	Cr2677	Cu3247	Fe2714	K_7664	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.081	1.061	1.096	1.134	11.74	1.032	1.073
SDev	.001	.001	.003	.002	.15	.006	.000
%RSD	.0491	.1239	.2395	.1684	1.305	.5421	.0117
#1	1.081	1.060	1.093	1.132	11.89	1.036	1.073
#2	1.081	1.063	1.096	1.134	11.59	1.036	1.073
#3	1.082	1.061	1.098	1.136	11.76	1.026	1.073

Elem	Ni2316	Pb2203	Se1960	2203/1	2203/2	1960/1	1960/2
Units	ppm						
Avge	1.041	1.074	1.055	1.076	1.069	1.051	1.061
SDev	.003	.003	.003	.005	.007	.005	.006
%RSD	.3117	.2450	.2829	.4407	.6103	.4762	.5977
#1	1.040	1.071	1.052	1.072	1.069	1.046	1.063
#2	1.045	1.076	1.058	1.076	1.076	1.053	1.067
#3	1.039	1.075	1.055	1.081	1.063	1.055	1.054

Elem	Sb2068	Sn1899	T11908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm
Avge	1.028	2.083	1.069	1.043	1.092
SDev	.005	.005	.009	.001	.003
%RSD	.4569	.2506	.8517	.0615	.2998
#1	1.031	2.083	1.058	1.043	1.094
#2	1.030	2.077	1.075	1.042	1.094
#3	1.022	2.088	1.072	1.042	1.088

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	36796	--	--	--	--	--	--
SDev	120.2262	--	--	--	--	--	--
%RSD	.3267400	--	--	--	--	--	--
#1	36880	--	--	--	--	--	--
#2	36658	--	--	--	--	--	--
#3	36849	--	--	--	--	--	--

Method: WATERS Sample Name: 89497 Operator:
Run Time: 03/29/00 21:24:34
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1890	Ba4934	Be3130	Ca3179	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0013	56.65	-.0115	.2146	.0032	145.2	-.0008
SDev	.0004	.16	.0020	.0009	.0001	.4	.0005
%RSD	30.71	.2857	17.12	.4279	2.160	.2820	64.86
#1	-.0008	56.73	-.0094	.2151	.0032	145.1	-.0006
#2	-.0014	56.75	-.0116	.2152	.0031	145.7	-.0004
#3	-.0016	56.46	-.0133	.2136	.0032	144.9	-.0013

Elem	Co2286	Cr2677	Cu3247	Fe2714	K_7664	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0001	.0490	.0181	13.16	8.155	10.20	.1452
SDev	.0006	.0005	.0006	.06	.103	.05	.0008
%RSD	922.2	1.058	3.332	.4400	1.260	.5331	.5151
#1	-.0006	.0490	.0184	13.14	8.136	10.22	.1450
#2	.0006	.0495	.0185	13.22	8.063	10.25	.1460
#3	-.0002	.0485	.0174	13.11	8.266	10.14	.1445

Elem	Ni2316	Pb2203	Se1960	2203/1	2203/2	1960/1	1960/2
Units	ppm						
Avge	.0136	.0685	-.0020	.0689	.0668	-.0057	.0048
SDev	.0004	.0041	.0042	.0053	.0020	.0054	.0048
%RSD	3.343	6.041	213.2	7.649	2.988	95.62	100.1
#1	.0133	.0701	.0025	.0714	.0668	.0006	.0058
#2	.0141	.0715	-.0059	.0725	.0688	-.0089	-.0004
#3	.0134	.0638	-.0026	.0629	.0648	-.0087	.0090

Elem	Sb2068	Sn1899	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm
Avge	.0010	.0011	.0096	.0803	.1255
SDev	.0012	.0022	.0023	.0007	.0008
%RSD	116.4	198.1	23.89	.8517	.6674
#1	.0005	.0033	.0071	.0805	.1253
#2	.0023	-.0011	.0101	.0809	.1264
#3	.0001	.0012	.0116	.0796	.1248

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	37944	--	--	--	--	--	--
SDev	292.0548	--	--	--	--	--	--
%RSD	.7696995	--	--	--	--	--	--
#1	37888	--	--	--	--	--	--
#2	37684	--	--	--	--	--	--
#3	38260	--	--	--	--	--	--

Method: WATERS Sample Name: 89498 Operator:
Run Time: 03/29/00 21:30:43
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1890	Ba4934	Be3130	Ca3179	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0014	83.70	-.0135	.2211	.0007	161.9	-.0004
SDev	.0008	.11	.0031	.0006	.0000	.2	.0004
%RSD	57.44	.1292	23.24	.2468	4.049	.1263	82.55
#1	-.0005	83.74	-.0150	.2217	.0007	162.0	-.0002
#2	-.0020	83.58	-.0099	.2206	.0007	162.0	-.0003
#3	-.0017	83.79	-.0155	.2210	.0007	161.6	-.0008

Elem	Co2286	Cr2677	Cu3247	Fe2714	K_7664	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0001	.0524	.0098	8.750	8.173	12.37	.3284
SDev	.0004	.0003	.0007	.016	.058	.01	.0003
%RSD	329.9	.6150	7.162	.1849	.7054	.0544	.0935
#1	.0005	.0527	.0106	8.768	8.240	12.37	.3287
#2	.0001	.0521	.0094	8.745	8.141	12.36	.3282
#3	-.0002	.0524	.0094	8.737	8.139	12.37	.3282

Elem	Ni2316	Pb2203	Se1960	2203/1	2203/2	1960/1	1960/2
Units	ppm						
Avge	.0136	.0362	.0001	.0376	.0325	-.0041	.0080
SDev	.0013	.0017	.0029	.0013	.0026	.0046	.0016
%RSD	9.809	4.709	2191.	3.337	7.994	111.6	20.41
#1	.0150	.0370	-.0007	.0382	.0338	-.0045	.0063
#2	.0135	.0342	.0034	.0361	.0295	.0007	.0082
#3	.0124	.0373	-.0023	.0384	.0343	-.0085	.0095

Elem	Sb2068	Sn1899	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm
Avge	.0009	-.0020	.0061	.0818	.0592
SDev	.0047	.0056	.0080	.0003	.0009
%RSD	533.1	278.4	131.4	.3793	1.455
#1	.0002	.0043	-.0024	.0820	.0596
#2	.0059	-.0064	.0070	.0814	.0598
#3	-.0035	-.0039	.0135	.0820	.0582

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	36457	--	--	--	--	--	--
SDev	143.8854	--	--	--	--	--	--
%RSD	.3946714	--	--	--	--	--	--
#1	36380	--	--	--	--	--	--
#2	36623	--	--	--	--	--	--
#3	36368	--	--	--	--	--	--

Method: WATERS Sample Name: 89499 Operator:
Run Time: 03/29/00 21:36:53
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1890	Ba4934	Be3130	Ca3179	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0023	23.76	-.0112	.1437	.0024	204.4	-.0023
SDev	.0003	.03	.0044	.0003	.0001	.1	.0003
%RSD	12.30	.1437	39.60	.1941	2.237	.0561	14.36
#1	-.0026	23.79	-.0061	.1440	.0023	204.3	-.0019
#2	-.0021	23.72	-.0133	.1436	.0024	204.5	-.0025
#3	-.0023	23.76	-.0141	.1435	.0024	204.5	-.0023

Elem	Co2286	Cr2677	Cu3247	Fe2714	K_7664	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0022	.0427	.0279	62.83	9.907	8.448	.3430
SDev	.0006	.0012	.0003	.02	.040	.015	.0002
%RSD	25.53	2.816	1.251	.0396	.4078	.1816	.0572
#1	.0027	.0418	.0280	62.85	9.914	8.465	.3432
#2	.0016	.0423	.0281	62.80	9.943	8.438	.3428
#3	.0021	.0441	.0275	62.84	9.863	8.440	.3429

Elem	Ni2316	Pb2203	Se1960	2203/1	2203/2	1960/1	1960/2
Units	ppm						
Avge	.0222	.0570	.0021	.0552	.0600	-.0060	.0177
SDev	.0005	.0034	.0025	.0048	.0017	.0059	.0053
%RSD	2.397	6.001	119.4	8.743	2.856	99.74	30.29
#1	.0222	.0597	.0044	.0595	.0593	.0005	.0116
#2	.0217	.0582	-.0006	.0559	.0620	-.0111	.0198
#3	.0227	.0532	.0026	.0500	.0588	-.0073	.0216

Elem	Sb2068	Sn1899	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm
Avge	.0008	.0013	.0122	.0581	.1054
SDev	.0015	.0013	.0085	.0003	.0005
%RSD	186.5	102.7	69.26	.5123	.4381
#1	.0014	.0010	.0176	.0581	.1054
#2	-.0009	.0027	.0025	.0584	.1058
#3	.0019	.0001	.0166	.0578	.1049

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	37589	--	--	--	--	--	--
SDev	179.7396	--	--	--	--	--	--
%RSD	.4781666	--	--	--	--	--	--
#1	37385	--	--	--	--	--	--
#2	37660	--	--	--	--	--	--
#3	37723	--	--	--	--	--	--

Method: WATERS Sample Name: 89500 Operator:
Run Time: 03/29/00 21:43:04
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1890	Ba4934	Be3130	Ca3179	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0017	8.809	-.0178	.3836	.0003	163.9	-.0015
SDev	.0006	.053	.0023	.0016	.0000	.5	.0002
%RSD	37.54	.6027	12.97	.4245	5.576	.3108	16.30
#1	-.0023	8.789	-.0181	.3829	.0003	163.4	-.0016
#2	-.0010	8.870	-.0153	.3855	.0002	164.5	-.0016
#3	-.0017	8.769	-.0199	.3825	.0003	163.9	-.0012

Elem	Co2286	Cr2677	Cu3247	Fe2714	K_7664	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0010	.0084	.0039	31.17	4.323	14.47	.4980
SDev	.0006	.0008	.0009	.15	.039	.12	.0023
%RSD	55.84	9.612	24.18	.4924	.8927	.8145	.4562
#1	-.0016	.0078	.0041	31.08	4.296	14.37	.4963
#2	-.0004	.0093	.0048	31.34	4.367	14.60	.5006
#3	-.0011	.0080	.0029	31.08	4.306	14.43	.4971

Elem	Ni2316	Pb2203	Se1960	2203/1	2203/2	1960/1	1960/2
Units	ppm						
Avge	.0025	.0098	-.0028	.0090	.0104	-.0059	.0028
SDev	.0014	.0010	.0024	.0027	.0043	.0036	.0020
%RSD	56.09	10.66	87.82	30.00	41.12	61.41	72.32
#1	.0032	.0104	-.0037	.0080	.0144	-.0062	.0005
#2	.0035	.0086	-.0046	.0069	.0110	-.0093	.0042
#3	.0009	.0103	-.0000	.0121	.0059	-.0021	.0036

Elem	Sb2068	Sn1899	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm
Avge	.0016	.0029	.0059	.0149	.0922
SDev	.0024	.0027	.0016	.0005	.0007
%RSD	149.0	91.98	26.49	3.269	.7352
#1	.0041	.0009	.0041	.0143	.0914
#2	.0016	.0059	.0069	.0153	.0926
#3	-.0008	.0019	.0066	.0151	.0926

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	36375	--	--	--	--	--	--
SDev	358.6266	--	--	--	--	--	--
%RSD	.9859149	--	--	--	--	--	--
#1	36659	--	--	--	--	--	--
#2	35972	--	--	--	--	--	--
#3	36494	--	--	--	--	--	--

Method: WATERS Sample Name: 89501 Operator:
Run Time: 03/29/00 21:49:16
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1890	Ba4934	Be3130	Ca3179	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0017	17.66	.0138	.0997	.0032	234.6	-.0011
SDev	.0003	.01	.0020	.0003	.0000	.6	.0001
%RSD	17.43	.0359	14.61	.3557	1.081	.2432	5.520
#1	-.0013	17.67	.0161	.0999	.0031	234.2	-.0012
#2	-.0019	17.65	.0126	.0993	.0032	234.4	-.0011
#3	-.0018	17.67	.0127	.0999	.0032	235.2	-.0011

Elem	Co2286	Cr2677	Cu3247	Fe2714	K_7664	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0012	.0370	.0078	41.87	12.69	13.33	.3301
SDev	.0006	.0004	.0003	.04	.04	.02	.0004
%RSD	46.98	1.009	4.430	.1066	.3414	.1388	.1089
#1	.0019	.0374	.0082	41.84	12.65	13.31	.3303
#2	.0009	.0370	.0079	41.85	12.68	13.34	.3297
#3	.0008	.0366	.0075	41.92	12.74	13.35	.3304

Elem	Ni2316	Pb2203	Se1960	2203/1	2203/2	1960/1	1960/2
Units	ppm						
Avge	.0097	.0254	-.0031	.0247	.0259	-.0076	.0052
SDev	.0020	.0004	.0011	.0025	.0038	.0022	.0067
%RSD	20.70	1.557	35.92	10.01	14.63	29.67	127.6
#1	.0113	.0250	-.0019	.0222	.0297	-.0076	.0087
#2	.0074	.0255	-.0032	.0248	.0259	-.0098	.0094
#3	.0104	.0257	-.0042	.0272	.0221	-.0053	-.0025

Elem	Sb2068	Sn1899	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm
Avge	-.0020	.0017	.0079	.0544	.0637
SDev	.0040	.0028	.0081	.0008	.0003
%RSD	194.9	168.7	102.9	1.533	.3952
#1	-.0002	-.0010	.0173	.0553	.0640
#2	.0007	.0013	.0027	.0537	.0635
#3	-.0066	.0046	.0037	.0543	.0636

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	38661	--	--	--	--	--	--
SDev	38.43176	--	--	--	--	--	--
%RSD	.0994070	--	--	--	--	--	--
#1	38634	--	--	--	--	--	--
#2	38644	--	--	--	--	--	--
#3	38705	--	--	--	--	--	--

Method: WATERS Sample Name: 89502 Operator:
Run Time: 03/29/00 21:55:26
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1890	Ba4934	Be3130	Ca3179	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0018	26.83	-.0172	.2786	.0031	145.0	-.0006
SDev	.0002	.04	.0018	.0004	.0000	.6	.0002
%RSD	13.23	.1482	10.45	.1335	.6508	.3823	28.60
#1	-.0020	26.83	-.0153	.2790	.0032	144.5	-.0008
#2	-.0015	26.79	-.0189	.2785	.0031	145.6	-.0004
#3	-.0018	26.87	-.0174	.2784	.0031	144.8	-.0006

Elem	Co2286	Cr2677	Cu3247	Fe2714	K_7664	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0005	.0383	.0093	15.39	4.237	9.708	.0499
SDev	.0006	.0005	.0003	.01	.091	.035	.0002
%RSD	128.9	1.396	3.795	.0812	2.143	.3563	.3434
#1	.0004	.0386	.0097	15.39	4.209	9.747	.0499
#2	.0012	.0387	.0090	15.41	4.339	9.682	.0500
#3	-.0001	.0377	.0094	15.38	4.164	9.695	.0497

Elem	Ni2316	Pb2203	Se1960	2203/1	2203/2	1960/1	1960/2
Units	ppm						
Avge	.0066	.0325	-.0015	.0305	.0358	-.0057	.0063
SDev	.0016	.0029	.0030	.0035	.0021	.0034	.0055
%RSD	24.47	8.749	202.3	11.43	5.902	60.38	88.08
#1	.0084	.0326	-.0018	.0298	.0373	-.0035	.0011
#2	.0061	.0354	.0016	.0343	.0368	-.0039	.0121
#3	.0053	.0297	-.0044	.0274	.0334	-.0096	.0056

Elem	Sb2068	Sn1899	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm
Avge	-.0016	.0041	.0001	.0471	.1339
SDev	.0050	.0058	.0050	.0006	.0008
%RSD	317.6	139.9	5588.	1.380	.5881
#1	.0030	.0060	.0055	.0478	.1341
#2	-.0007	.0088	-.0009	.0467	.1345
#3	-.0070	-.0023	-.0044	.0467	.1330

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	38050	--	--	--	--	--	--
SDev	280.2071	--	--	--	--	--	--
%RSD	.7364181	--	--	--	--	--	--
#1	37786	--	--	--	--	--	--
#2	38344	--	--	--	--	--	--
#3	38020	--	--	--	--	--	--

Method: WATERS Sample Name: 89503 Operator:
Run Time: 03/29/00 22:01:35
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1890	Ba4934	Be3130	Ca3179	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0019	12.35	-.0099	.1347	.0016	79.96	-.0032
SDev	.0009	.02	.0052	.0001	.0000	.11	.0005
%RSD	44.57	.1476	52.57	.0699	.7900	.1325	14.33
#1	-.0010	12.33	-.0044	.1347	.0016	79.89	-.0029
#2	-.0027	12.35	-.0105	.1346	.0016	80.08	-.0029
#3	-.0021	12.36	-.0147	.1348	.0016	79.90	-.0037

Elem	Co2286	Cr2677	Cu3247	Fe2714	K_7664	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0005	.0253	.0056	68.01	4.262	11.02	.9630
SDev	.0003	.0005	.0004	.09	.067	.01	.0020
%RSD	57.32	1.805	6.618	.1382	1.575	.0594	.2045
#1	.0006	.0258	.0060	67.93	4.338	11.03	.9620
#2	.0006	.0252	.0054	68.11	4.231	11.03	.9653
#3	.0002	.0249	.0053	67.99	4.215	11.02	.9618

Elem	Ni2316	Pb2203	Se1960	2203/1	2203/2	1960/1	1960/2
Units	ppm						
Avge	.0026	.0125	-.0016	.0099	.0170	-.0095	.0136
SDev	.0011	.0031	.0036	.0044	.0015	.0076	.0046
%RSD	43.05	24.56	228.0	44.54	9.085	80.73	34.03
#1	.0024	.0121	.0023	.0085	.0186	-.0010	.0083
#2	.0038	.0158	-.0048	.0148	.0169	-.0159	.0168
#3	.0015	.0097	-.0022	.0064	.0155	-.0115	.0157

Elem	Sb2068	Sn1899	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm
Avge	-.0020	.0060	.0123	.0461	.0459
SDev	.0021	.0033	.0015	.0003	.0004
%RSD	107.0	54.01	12.36	.6826	.8785
#1	-.0039	.0098	.0119	.0461	.0460
#2	.0003	.0047	.0110	.0464	.0462
#3	-.0023	.0037	.0140	.0458	.0454

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	37338	--	--	--	--	--	--
SDev	151.2757	--	--	--	--	--	--
%RSD	.4051485	--	--	--	--	--	--
#1	37435	--	--	--	--	--	--
#2	37164	--	--	--	--	--	--
#3	37416	--	--	--	--	--	--

Method: WATERS Sample Name: icv 1 Operator:
Run Time: 03/29/00 22:07:44
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1890	Ba4934	Be3130	Ca3179	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	Q.2318	Q.4600	.1902	.2044	.2050	Q.2725	.2072
SDev	.0006	.0073	.0040	.0003	.0002	.0124	.0011
%RSD	.2768	1.593	2.131	.1359	.1066	4.567	.5541
#1	Q.2315	Q.4521	Q.1858	.2044	.2050	Q.2863	.2085
#2	Q.2313	Q.4614	.1939	.2041	.2053	Q.2690	.2070
#3	Q.2325	Q.4666	.1908	.2047	.2048	Q.2622	.2062
Errors	QC Fail	QC Fail	QC Pass	QC Pass	QC Pass	QC Fail	QC Pass
Value	.2000	.2000	.2000	.2000	.2000	.2000	.2000
Range	5.500	5.500	5.500	5.500	5.500	5.500	5.500

Elem	Co2286	Cr2677	Cu3247	Fe2714	K_7664	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.2058	.2050	.2036	.2095	1.981	Q.2141	.2063
SDev	.0016	.0007	.0006	.0256	.059	.0037	.0002
%RSD	.7670	.3320	.2770	12.24	2.985	1.706	.1004
#1	.2054	.2043	.2041	Q.2343	1.963	.2103	.2062
#2	.2044	.2051	.2030	Q.2113	1.933	Q.2144	.2062
#3	.2075	.2057	.2036	Q.1831	2.047	Q.2176	.2066
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Fail	QC Pass
Value	.2000	.2000	.2000	.2000	2.000	.2000	.2000
Range	5.500	5.500	5.500	5.500	5.500	5.500	5.500

Elem	Ni2316	Pb2203	Se1960	2203/1	2203/2	1960/1	1960/2
Units	ppm						
Avge	.2026	.2085	.2081	.2068	.2113	.2076	.2086
SDev	.0016	.0005	.0034	.0005	.0006	.0046	.0021
%RSD	.7897	.2394	1.650	.2261	.2870	2.228	1.022
#1	.2026	.2084	.2043	.2067	.2109	.2022	.2078
#2	.2010	.2082	.2110	.2063	.2110	.2106	.2111
#3	.2042	.2091	.2091	.2073	.2120	.2099	.2070
Errors	QC Pass	QC Pass	QC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK
Value	.2000	.2000	.2000				
Range	5.500	5.500	5.500				

Elem	Sb2068	Sn1899	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm
Avge	.1923	Q.1153	.2099	.2021	.2093
SDev	.0025	.0027	.0100	.0003	.0003
%RSD	1.302	2.358	4.757	.1703	.1277
#1	.1933	Q.1122	Q.2209	.2023	.2096
#2	.1894	Q.1172	.2073	.2023	.2091
#3	.1941	Q.1164	.2014	.2017	.2091
Errors	QC Pass	QC Fail	QC Pass	QC Pass	QC Pass

Value	.2000	.2000	.2000	.2000	.2000		
Range	5.500	5.500	5.500	5.500	5.500		
IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	36960	--	--	--	--	--	--
SDev	52.50079	--	--	--	--	--	--
%RSD	.1420463	--	--	--	--	--	--
#1	37013	--	--	--	--	--	--
#2	36908	--	--	--	--	--	--
#3	36960	--	--	--	--	--	--

Method: WATERS Sample Name: icv 2 Operator:
Run Time: 03/29/00 22:14:21
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1890	Ba4934	Be3130	Ca3179	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.049	Q1.191	1.012	1.001	1.003	Q1.123	1.018
SDev	.000	.007	.007	.001	.001	.004	.002
%RSD	.0291	.5691	.7245	.1357	.1327	.3194	.1492
#1	1.049	Q1.184	1.004	1.003	1.001	Q1.122	1.017
#2	1.049	Q1.197	1.017	1.000	1.004	Q1.119	1.018
#3	1.049	Q1.193	1.015	1.000	1.003	Q1.126	1.020
Errors	QC Pass	QC Fail	QC Pass	QC Pass	QC Pass	QC Fail	QC Pass
Value	1.000	1.000	1.000	1.000	1.000	1.000	1.000
Range	5.500	5.500	5.500	5.500	5.500	5.500	5.500

Elem	Co2286	Cr2677	Cu3247	Fe2714	K_7664	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.012	1.006	1.032	Q1.063	Q11.25	.9848	1.011
SDev	.002	.002	.001	.021	.14	.0083	.001
%RSD	.1492	.1777	.1120	1.952	1.218	.8388	.1425
#1	1.011	1.005	1.031	1.040	Q11.29	.9816	1.009
#2	1.014	1.004	1.033	Q1.080	Q11.10	.9786	1.011
#3	1.012	1.007	1.031	Q1.069	Q11.37	.9942	1.012
Errors	QC Pass	QC Pass	QC Pass	QC Fail	QC Fail	QC Pass	QC Pass
Value	1.000	1.000	1.000	1.000	10.00	1.000	1.000
Range	5.500	5.500	5.500	5.500	5.500	5.500	5.500

Elem	Ni2316	Pb2203	Se1960	2203/1	2203/2	1960/1	1960/2
Units	ppm						
Avge	.9901	1.018	1.028	1.022	1.008	1.027	1.029
SDev	.0033	.006	.012	.008	.007	.012	.014
%RSD	.3358	.5815	1.209	.7379	.6595	1.172	1.391
#1	.9914	1.015	1.028	1.022	1.001	1.030	1.023
#2	.9863	1.025	1.040	1.030	1.013	1.038	1.045
#3	.9925	1.014	1.016	1.015	1.011	1.014	1.018
Errors	QC Pass	QC Pass	QC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK
Value	1.000	1.000	1.000				
Range	5.500	5.500	5.500				

Elem	Sb2068	Sn1899	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm
Avge	.9658	.9912	1.022	.9862	1.022
SDev	.0070	.0059	.003	.0010	.003
%RSD	.7296	.5996	.3172	.0972	.3151
#1	.9622	.9851	1.018	.9857	1.019
#2	.9613	.9915	1.022	.9856	1.022
#3	.9739	.9970	1.025	.9873	1.026
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass

Value	1.000	1.000	1.000	1.000	1.000		
Range	5.500	5.500	5.500	5.500	5.500		
IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	37600	--	--	--	--	--	--
SDev	79.85821	--	--	--	--	--	--
%RSD	.2123870	--	--	--	--	--	--
#1	37657	--	--	--	--	--	--
#2	37509	--	--	--	--	--	--
#3	37635	--	--	--	--	--	--

Method: WATERS Sample Name: icb Operator:
Run Time: 03/29/00 22:20:55
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1890	Ba4934	Be3130	Ca3179	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0010	H.1366	L-.0115	.0002	.0002	.0086	.0005
SDev	.0003	.0057	.0045	.0000	.0000	.0034	.0005
%RSD	25.03	4.180	39.18	14.40	19.22	39.61	91.79
#1	-.0013	H.1304	L-.0064	.0002	.0002	.0124	-.0000
#2	-.0009	H.1417	L-.0133	.0002	.0002	.0075	.0008
#3	-.0008	H.1375	L-.0148	.0002	.0002	.0058	.0009
Errors	LC Pass	LC High	LC Low	LC Pass	LC Pass	LC Pass	LC Pass
High	.0050	.0500	.0050	.0050	.0015	.0500	.0015
Low	-.0050	-.0500	-.0050	-.0050	-.0015	-.0500	-.0015

Elem	Co2286	Cr2677	Cu3247	Fe2714	K_7664	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0002	-.0009	-.0017	-.0100	L-.1607	-.0008	.0003
SDev	.0004	.0003	.0010	.0096	.0862	.0005	.0001
%RSD	191.5	30.80	58.69	95.50	53.62	62.54	29.56
#1	-.0003	-.0008	-.0006	-.0044	L-.2026	-.0005	.0004
#2	.0002	-.0012	-.0019	-.0211	-.0616	-.0005	.0003
#3	-.0005	-.0007	-.0025	-.0046	L-.2180	-.0014	.0002
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Low	LC Pass	LC Pass
High	.0050	.0050	.0025	.0500	.1000	.0500	.0050
Low	-.0050	-.0050	-.0025	-.0500	-.1000	-.0500	-.0050

Elem	Ni2316	Pb2203	Se1960	2203/1	2203/2	1960/1	1960/2
Units	ppm						
Avge	-.0001	-.0012	.0002	-.0030	.0018	.0002	-.0006
SDev	.0004	.0013	.0026	.0008	.0026	.0046	.0026
%RSD	660.5	114.0	1440.	24.86	149.9	1868.	435.0
#1	-.0001	-.0018	-.0005	-.0036	.0011	-.0022	.0024
#2	-.0004	-.0021	-.0020	-.0033	-.0005	-.0026	-.0016
#3	.0003	.0004	.0031	-.0022	.0046	.0055	-.0026
Errors	LC Pass	LC Pass	LC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High	.0050	.0025	.0050				
Low	-.0050	-.0025	-.0050				

Elem	Sb2068	Sn1899	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm
Avge	H.0042	.0008	H.0032	.0009	.0001
SDev	.0025	.0076	.0017	.0002	.0003
%RSD	58.90	961.2	53.02	18.77	227.8
#1	H.0067	.0074	H.0043	.0009	.0005
#2	H.0042	-.0075	H.0040	.0008	-.0001
#3	.0017	.0025	H.0012	.0011	.0000
Errors	LC High	LC Pass	LC High	LC Pass	LC Pass

High	.0025	.0500	.0010	.0050	.0100		
Low	-.0025	-.0500	-.0020	-.0050	-.0100		
IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	36923	--	--	--	--	--	--
SDev	140.0321	--	--	--	--	--	--
%RSD	.3792545	--	--	--	--	--	--
#1	36878	--	--	--	--	--	--
#2	36811	--	--	--	--	--	--
#3	37080	--	--	--	--	--	--

Method: WATERS Sample Name: 89504 Operator:
Run Time: 03/29/00 22:27:04
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1890	Ba4934	Be3130	Ca3179	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0055	54.35	-.0158	.5327	.0069	88.56	-.0089
SDev	.0005	.24	.0017	.0023	.0001	.62	.0002
%RSD	9.234	.4395	10.77	.4249	.7774	.6979	1.850
#1	-.0050	54.08	-.0158	.5301	.0069	87.85	-.0090
#2	-.0055	54.43	-.0174	.5335	.0069	88.84	-.0089
#3	-.0060	54.53	-.0140	.5344	.0069	88.98	-.0087

Elem	Co2286	Cr2677	Cu3247	Fe2714	K_7664	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0003	.0747	.0212	215.4	6.562	3.941	.1606
SDev	.0012	.0002	.0003	1.5	.052	.017	.0010
%RSD	396.5	.3066	1.267	.6910	.7901	.4301	.6389
#1	.0010	.0745	.0214	213.7	6.585	3.922	.1595
#2	-.0006	.0745	.0214	216.2	6.503	3.952	.1610
#3	-.0014	.0749	.0209	216.4	6.599	3.950	.1614

Elem	Ni2316	Pb2203	Se1960	2203/1	2203/2	1960/1	1960/2
Units	ppm						
Avge	.0085	.0421	-.0085	.0426	.0404	-.0230	.0200
SDev	.0009	.0017	.0042	.0016	.0029	.0040	.0047
%RSD	10.73	3.947	49.34	3.721	7.091	17.54	23.40
#1	.0082	.0431	-.0132	.0443	.0401	-.0275	.0146
#2	.0096	.0402	-.0053	.0411	.0377	-.0195	.0226
#3	.0078	.0431	-.0070	.0425	.0434	-.0222	.0229

Elem	Sb2068	Sn1899	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm
Avge	.0010	.0018	.0394	.1769	.0708
SDev	.0022	.0038	.0058	.0013	.0008
%RSD	219.9	210.4	14.73	.7499	1.172
#1	-.0013	.0061	.0459	.1756	.0699

#2	.0013	.0004	.0350	.1782	.0715
#3	.0031	-.0011	.0372	.1769	.0710

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	39127	--	--	--	--	--	--
SDev	80.64945	--	--	--	--	--	--
%RSD	.2061205	--	--	--	--	--	--
#1	39133	--	--	--	--	--	--
#2	39044	--	--	--	--	--	--
#3	39205	--	--	--	--	--	--

Method: WATERS Sample Name: 89505 Operator:
Run Time: 03/29/00 22:33:14
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1890	Ba4934	Be3130	Ca3179	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0122	31.11	-.0138	.9781	.0029	108.9	-.0194
SDev	.0003	.06	.0045	.0027	.0000	.1	.0007
%RSD	2.087	.1965	32.39	.2815	.3284	.0841	3.524
#1	-.0119	31.17	-.0186	.9803	.0029	109.0	-.0200
#2	-.0123	31.05	-.0131	.9750	.0029	108.9	-.0196
#3	-.0123	31.11	-.0097	.9790	.0029	108.8	-.0186

Elem	Co2286	Cr2677	Cu3247	Fe2714	K_7664	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0001	.0489	.0390	518.9	3.582	14.27	.1313
SDev	.0006	.0004	.0008	.4	.058	.03	.0003
%RSD	721.8	.9185	2.039	.0708	1.617	.2353	.2465
#1	.0005	.0493	.0388	519.4	3.632	14.30	.1317
#2	-.0006	.0484	.0399	518.7	3.595	14.24	.1311
#3	.0003	.0490	.0384	518.8	3.518	14.28	.1311

Elem	Ni2316	Pb2203	Se1960	2203/1	2203/2	1960/1	1960/2
Units	ppm						
Avge	.0051	.0236	-.0182	.0249	.0202	-.0484	.0418
SDev	.0009	.0018	.0017	.0017	.0024	.0013	.0029
%RSD	17.17	7.625	9.593	6.683	12.17	2.601	7.032
#1	.0041	.0222	-.0200	.0232	.0193	-.0498	.0390
#2	.0054	.0230	-.0179	.0250	.0183	-.0477	.0414
#3	.0057	.0256	-.0166	.0266	.0230	-.0476	.0449

Elem	Sb2068	Sn1899	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm
Avge	-.0059	.0096	.0886	.2339	1.707
SDev	.0008	.0011	.0057	.0002	.005
%RSD	13.43	11.23	6.425	.0977	.2862
#1	-.0067	.0099	.0821	.2337	1.713

#2	-.0051	.0084	.0909	.2340	1.704
#3	-.0059	.0104	.0927	.2341	1.704

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	40042	--	--	--	--	--	--
SDev	145.1907	--	--	--	--	--	--
%RSD	.3625930	--	--	--	--	--	--
#1	39906	--	--	--	--	--	--
#2	40195	--	--	--	--	--	--
#3	40026	--	--	--	--	--	--

Method: WATERS Sample Name: 89506 Operator:
Run Time: 03/29/00 22:39:23
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1890	Ba4934	Be3130	Ca3179	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0012	31.36	-.0171	.1668	.0015	30.08	-.0002
SDev	.0008	.06	.0023	.0003	.0000	.09	.0002
%RSD	66.10	.1931	13.34	.1720	2.457	.2890	99.89
#1	-.0003	31.38	-.0196	.1672	.0015	29.99	-.0001
#2	-.0014	31.29	-.0163	.1666	.0016	30.09	-.0005
#3	-.0019	31.40	-.0153	.1667	.0015	30.16	-.0001

Elem	Co2286	Cr2677	Cu3247	Fe2714	K_7664	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0002	.0287	.0983	9.605	4.225	3.334	.0569
SDev	.0006	.0007	.0002	.030	.148	.019	.0001
%RSD	259.3	2.366	.1827	.3107	3.501	.5780	.1262
#1	-.0001	.0292	.0984	9.581	4.381	3.343	.0569
#2	.0009	.0279	.0981	9.638	4.087	3.312	.0570
#3	-.0001	.0290	.0985	9.595	4.207	3.347	.0569

Elem	Ni2316	Pb2203	Se1960	2203/1	2203/2	1960/1	1960/2
Units	ppm						
Avge	.0048	.0517	.0014	.0531	.0481	.0013	.0010
SDev	.0006	.0027	.0022	.0055	.0034	.0031	.0023
%RSD	13.76	5.310	155.0	10.29	7.090	230.4	219.1
#1	.0040	.0544	.0025	.0591	.0443	.0038	-.0007
#2	.0050	.0489	.0030	.0484	.0493	.0023	.0036
#3	.0053	.0518	-.0011	.0519	.0508	-.0021	.0002

Elem	Sb2068	Sn1899	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm
Avge	.0026	-.0001	-.0086	.0492	1.298
SDev	.0024	.0014	.0061	.0006	.006
%RSD	90.40	918.9	70.88	1.203	.4418
#1	.0041	.0014	-.0019	.0486	1.291

#2	-.0001	-.0005	-.0138	.0498	1.300	
#3	.0039	-.0013	-.0100	.0491	1.302	

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	37069	--	--	--	--	--	--
SDev	78.23895	--	--	--	--	--	--
%RSD	.2110611	--	--	--	--	--	--
#1	37010	--	--	--	--	--	--
#2	37158	--	--	--	--	--	--
#3	37040	--	--	--	--	--	--

Method: WATERS Sample Name: 89506d Operator:
Run Time: 03/29/00 22:45:33
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1890	Ba4934	Be3130	Ca3179	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0012	31.68	-.0140	.1681	.0016	30.75	.0001
SDev	.0005	.06	.0024	.0003	.0000	.11	.0003
%RSD	44.45	.1991	17.34	.1492	2.260	.3617	316.1
#1	-.0006	31.61	-.0168	.1683	.0015	30.62	.0002
#2	-.0016	31.72	-.0123	.1682	.0016	30.80	-.0002
#3	-.0015	31.71	-.0129	.1678	.0016	30.81	.0003

Elem	Co2286	Cr2677	Cu3247	Fe2714	K_7664	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0002	.0290	.0976	9.725	4.225	3.396	.0583
SDev	.0008	.0004	.0005	.026	.080	.008	.0002
%RSD	370.7	1.326	.5028	.2669	1.883	.2243	.3338
#1	-.0005	.0285	.0970	9.706	4.315	3.387	.0581
#2	.0001	.0291	.0977	9.715	4.196	3.400	.0584
#3	.0011	.0293	.0980	9.755	4.164	3.401	.0584

Elem	Ni2316	Pb2203	Se1960	2203/1	2203/2	1960/1	1960/2
Units	ppm						
Avge	.0063	.0488	.0035	.0476	.0505	.0008	.0081
SDev	.0005	.0016	.0014	.0017	.0027	.0019	.0004
%RSD	7.875	3.317	39.12	3.493	5.429	222.6	5.340
#1	.0058	.0487	.0021	.0464	.0523	-.0011	.0079
#2	.0062	.0473	.0048	.0469	.0473	.0026	.0086
#3	.0068	.0505	.0035	.0495	.0518	.0011	.0078

Elem	Sb2068	Sn1899	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm
Avge	.0007	.0046	-.0029	.0499	1.333
SDev	.0028	.0010	.0021	.0003	.006
%RSD	395.4	22.17	71.62	.5451	.4872
#1	-.0007	.0036	-.0041	.0498	1.326

#2	.0040	.0056	-.0005	.0503	1.336
#3	-.0011	.0045	-.0041	.0498	1.338

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	37079	--	--	--	--	--	--
SDev	95.02280	--	--	--	--	--	--
%RSD	.2562735	--	--	--	--	--	--
#1	37032	--	--	--	--	--	--
#2	37188	--	--	--	--	--	--
#3	37016	--	--	--	--	--	--

Method: WATERS Sample Name: 89506ms Operator:
Run Time: 03/29/00 22:51:42
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1890	Ba4934	Be3130	Ca3179	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.054	68.24	1.015	1.225	1.007	30.88	1.019
SDev	.004	.23	.004	.002	.004	.17	.003
%RSD	.4210	.3358	.3932	.1521	.3709	.5371	.2975
#1	1.049	67.98	1.010	1.224	1.003	30.69	1.015
#2	1.057	68.38	1.015	1.227	1.009	30.95	1.019
#3	1.057	68.36	1.018	1.225	1.010	30.99	1.021

Elem	Co2286	Cr2677	Cu3247	Fe2714	K_7664	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.030	1.045	1.182	16.68	17.88	4.936	1.079
SDev	.003	.004	.002	.06	.12	.021	.004
%RSD	.3265	.4144	.1696	.3333	.6746	.4162	.3718
#1	1.026	1.040	1.180	16.61	17.85	4.913	1.075
#2	1.031	1.047	1.184	16.71	18.01	4.950	1.081
#3	1.032	1.048	1.183	16.71	17.78	4.946	1.082

Elem	Ni2316	Pb2203	Se1960	2203/1	2203/2	1960/1	1960/2
Units	ppm						
Avge	.9968	1.083	.9800	1.088	1.071	.9744	.9905
SDev	.0057	.006	.0061	.006	.010	.0086	.0012
%RSD	.5743	.5678	.6255	.5521	.9171	.8803	.1238
#1	.9926	1.080	.9732	1.089	1.062	.9650	.9891
#2	1.003	1.078	.9852	1.082	1.071	.9817	.9915
#3	.9946	1.090	.9816	1.094	1.081	.9766	.9908

Elem	Sb2068	Sn1899	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm
Avge	.7219	1.959	1.038	1.052	2.305
SDev	.0027	.013	.014	.004	.015
%RSD	.3671	.6464	1.354	.3447	.6516
#1	.7229	1.945	1.022	1.048	2.287

#2	.7189	1.964	1.044	1.053	2.312	
#3	.7239	1.969	1.048	1.055	2.315	

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	37231	--	--	--	--	--	--
SDev	180.0287	--	--	--	--	--	--
%RSD	.4835495	--	--	--	--	--	--
#1	37383	--	--	--	--	--	--
#2	37277	--	--	--	--	--	--
#3	37032	--	--	--	--	--	--

Method: WATERS Sample Name: 89506msd Operator:
Run Time: 03/29/00 22:57:51
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1890	Ba4934	Be3130	Ca3179	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.049	70.88	1.037	1.220	1.027	31.39	1.041
SDev	.001	.19	.005	.001	.001	.04	.003
%RSD	.1082	.2716	.4453	.0520	.1416	.1235	.3093
#1	1.047	70.66	1.042	1.221	1.026	31.36	1.040
#2	1.049	70.95	1.036	1.220	1.029	31.37	1.038
#3	1.049	71.02	1.033	1.220	1.028	31.43	1.044

Elem	Co2286	Cr2677	Cu3247	Fe2714	K_7664	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.050	1.068	1.203	17.21	17.84	5.041	1.101
SDev	.002	.001	.002	.06	.13	.013	.001
%RSD	.1589	.0794	.1742	.3324	.7438	.2655	.0846
#1	1.049	1.067	1.204	17.18	17.83	5.025	1.100
#2	1.050	1.069	1.204	17.17	17.72	5.046	1.101
#3	1.052	1.069	1.201	17.27	17.98	5.050	1.102

Elem	Ni2316	Pb2203	Se1960	2203/1	2203/2	1960/1	1960/2
Units	ppm						
Avge	1.018	1.108	1.001	1.113	1.096	.9925	1.016
SDev	.003	.003	.006	.004	.003	.0070	.004
%RSD	.2515	.2478	.6140	.3162	.2847	.7103	.4271
#1	1.017	1.105	.9958	1.109	1.095	.9869	1.013
#2	1.021	1.110	1.008	1.115	1.099	1.000	1.021
#3	1.016	1.108	.9984	1.115	1.093	.9901	1.014

Elem	Sb2068	Sn1899	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm
Avge	.7359	1.952	1.053	1.074	2.353
SDev	.0021	.005	.007	.003	.008
%RSD	.2866	.2588	.7102	.2760	.3231
#1	.7379	1.957	1.061	1.070	2.345

#2	.7361	1.947	1.047	1.075	2.354		
#3	.7337	1.952	1.050	1.076	2.360		
IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	37105	--	--	--	--	--	--
SDev	91.66425	--	--	--	--	--	--
%RSD	.2470379	--	--	--	--	--	--
#1	37207	--	--	--	--	--	--
#2	37029	--	--	--	--	--	--
#3	37080	--	--	--	--	--	--

Method: WATERS Sample Name: 89507 Operator:
Run Time: 03/29/00 23:04:00
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1890	Ba4934	Be3130	Ca3179	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0026	51.08	-.0150	.5522	.0044	184.4	-.0025
SDev	.0010	.07	.0031	.0010	.0000	.5	.0004
%RSD	36.90	.1292	20.35	.1771	.3057	.2461	14.48
#1	-.0032	51.06	-.0130	.5527	.0044	184.0	-.0027
#2	-.0032	51.15	-.0135	.5528	.0045	184.3	-.0021
#3	-.0015	51.02	-.0185	.5511	.0044	184.9	-.0028

Elem	Co2286	Cr2677	Cu3247	Fe2714	K_7664	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0002	.0710	.0074	72.32	5.192	8.674	.9614
SDev	.0006	.0008	.0004	.20	.153	.010	.0019
%RSD	286.0	1.132	5.486	.2729	2.942	.1162	.1931
#1	-.0008	.0703	.0069	72.13	5.173	8.662	.9595
#2	.0002	.0708	.0075	72.32	5.050	8.677	.9615
#3	.0000	.0718	.0077	72.52	5.354	8.682	.9632

Elem	Ni2316	Pb2203	Se1960	2203/1	2203/2	1960/1	1960/2
Units	ppm						
Avge	.0124	.0542	-.0017	.0524	.0571	-.0087	.0116
SDev	.0015	.0010	.0017	.0022	.0042	.0045	.0067
%RSD	12.23	1.824	97.42	4.247	7.414	51.45	57.34
#1	.0111	.0535	-.0003	.0500	.0596	-.0036	.0057
#2	.0119	.0554	-.0036	.0529	.0595	-.0108	.0103
#3	.0141	.0539	-.0014	.0544	.0522	-.0118	.0189

Elem	Sb2068	Sn1899	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm
Avge	-.0018	.0020	.0177	.0736	.0358
SDev	.0029	.0030	.0078	.0008	.0002
%RSD	158.8	147.9	44.24	1.118	.4754
#1	-.0040	.0054	.0255	.0729	.0358

#2	-.0030	.0011	.0098	.0732	.0357
#3	.0015	-.0004	.0178	.0745	.0360

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	37254	--	--	--	--	--	--
SDev	103.7995	--	--	--	--	--	--
%RSD	.2786289	--	--	--	--	--	--
#1	37372	--	--	--	--	--	--
#2	37211	--	--	--	--	--	--
#3	37178	--	--	--	--	--	--

Method: WATERS Sample Name: 89508 Operator:
Run Time: 03/29/00 23:10:09
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1890	Ba4934	Be3130	Ca3179	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0025	50.31	-.0111	.2094	.0103	69.71	-.0007
SDev	.0006	.12	.0029	.0002	.0000	.17	.0001
%RSD	23.20	.2410	26.16	.1122	.2995	.2407	16.75
#1	-.0032	50.26	-.0117	.2093	.0104	69.53	-.0008
#2	-.0020	50.44	-.0137	.2096	.0103	69.77	-.0008
#3	-.0023	50.21	-.0080	.2092	.0103	69.85	-.0006

Elem	Co2286	Cr2677	Cu3247	Fe2714	K_7664	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0009	.1051	.0068	25.48	5.081	6.172	.0813
SDev	.0005	.0008	.0003	.03	.059	.022	.0002
%RSD	56.96	.7920	4.808	.1090	1.156	.3545	.1928
#1	.0007	.1041	.0071	25.46	5.028	6.148	.0811
#2	.0005	.1054	.0068	25.47	5.144	6.189	.0813
#3	.0015	.1057	.0064	25.51	5.071	6.180	.0814

Elem	Ni2316	Pb2203	Se1960	2203/1	2203/2	1960/1	1960/2
Units	ppm						
Avge	.0156	.0744	.0034	.0748	.0728	-.0027	.0149
SDev	.0009	.0036	.0026	.0034	.0044	.0051	.0038
%RSD	5.815	4.818	76.45	4.584	6.070	190.5	25.54
#1	.0154	.0724	.0027	.0722	.0723	-.0058	.0192
#2	.0149	.0721	.0063	.0735	.0686	.0032	.0119
#3	.0167	.0785	.0012	.0787	.0774	-.0054	.0138

Elem	Sb2068	Sn1899	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm
Avge	.0017	.0009	.0123	.2046	.0329
SDev	.0010	.0047	.0069	.0012	.0002
%RSD	61.73	515.3	56.22	.6004	.6488
#1	.0008	.0057	.0200	.2035	.0327

#2	.0029	-.0036	.0105	.2059	.0331
#3	.0014	.0007	.0065	.2044	.0328

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	40641	--	--	--	--	--	--
SDev	75.62407	--	--	--	--	--	--
%RSD	.1860783	--	--	--	--	--	--
#1	40724	--	--	--	--	--	--
#2	40576	--	--	--	--	--	--
#3	40623	--	--	--	--	--	--

Method: WATERS Sample Name: 89509 Operator:
Run Time: 03/29/00 23:16:19
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1890	Ba4934	Be3130	Ca3179	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0018	5.834	-.0172	.1479	.0005	25.30	.0001
SDev	.0006	.024	.0038	.0003	.0000	.06	.0005
%RSD	30.86	.4190	22.24	.1836	4.180	.2253	337.1
#1	-.0022	5.862	-.0187	.1482	.0005	25.31	.0003
#2	-.0020	5.817	-.0201	.1476	.0005	25.24	-.0004
#3	-.0012	5.823	-.0129	.1480	.0006	25.36	.0006

Elem	Co2286	Cr2677	Cu3247	Fe2714	K_7664	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0005	.0074	-.0012	5.288	3.157	6.307	.0516
SDev	.0002	.0008	.0003	.014	.049	.014	.0002
%RSD	50.20	10.98	25.76	.2704	1.563	.2142	.3571
#1	-.0005	.0069	-.0011	5.285	3.134	6.310	.0516
#2	-.0007	.0070	-.0009	5.275	3.123	6.292	.0514
#3	-.0002	.0084	-.0015	5.304	3.213	6.319	.0518

Elem	Ni2316	Pb2203	Se1960	2203/1	2203/2	1960/1	1960/2
Units	ppm						
Avge	.0011	.0041	.0013	.0018	.0078	.0000	.0031
SDev	.0027	.0055	.0029	.0093	.0024	.0034	.0065
%RSD	245.8	135.3	226.9	507.2	30.58	8201.	207.6
#1	.0012	.0003	.0003	-.0050	.0102	-.0034	.0073
#2	-.0017	.0015	-.0010	-.0019	.0075	.0003	-.0044
#3	.0038	.0104	.0046	.0125	.0055	.0033	.0065

Elem	Sb2068	Sn1899	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm
Avge	.0020	-.0004	-.0023	.0117	.0356
SDev	.0017	.0007	.0084	.0002	.0004
%RSD	84.39	172.3	362.2	1.766	1.178
#1	.0009	-.0012	.0021	.0116	.0353

#2	.0012	-.0004	-.0120	.0116	.0361
#3	.0040	.0003	.0029	.0119	.0355

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	36616	--	--	--	--	--	--
SDev	132.0240	--	--	--	--	--	--
%RSD	.3605669	--	--	--	--	--	--
#1	36501	--	--	--	--	--	--
#2	36760	--	--	--	--	--	--
#3	36586	--	--	--	--	--	--

Method: WATERS Sample Name: 89510 Operator:
Run Time: 03/29/00 23:22:30
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1890	Ba4934	Be3130	Ca3179	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0024	21.21	.0217	.1048	.0035	239.4	-.0026
SDev	.0004	.07	.0047	.0003	.0000	.7	.0001
%RSD	15.53	.3490	21.77	.2600	.8862	.3040	5.624
#1	-.0021	21.14	.0162	.1050	.0035	238.6	-.0028
#2	-.0023	21.29	.0244	.1048	.0036	239.8	-.0026
#3	-.0029	21.19	.0244	.1045	.0035	239.8	-.0025

Elem	Co2286	Cr2677	Cu3247	Fe2714	K_7664	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0030	.0469	.0096	72.62	12.86	13.56	.3350
SDev	.0007	.0006	.0002	.20	.06	.03	.0008
%RSD	23.43	1.250	2.450	.2738	.4315	.1974	.2452
#1	.0028	.0476	.0095	72.40	12.89	13.53	.3345
#2	.0023	.0466	.0099	72.79	12.89	13.58	.3359
#3	.0037	.0466	.0094	72.68	12.80	13.58	.3345

Elem	Ni2316	Pb2203	Se1960	2203/1	2203/2	1960/1	1960/2
Units	ppm						
Avge	.0121	.0320	-.0018	.0318	.0316	-.0082	.0102
SDev	.0024	.0016	.0030	.0022	.0021	.0041	.0043
%RSD	19.98	5.033	163.0	6.927	6.603	50.50	42.01
#1	.0144	.0337	-.0033	.0344	.0317	-.0078	.0052
#2	.0096	.0317	.0016	.0304	.0336	-.0042	.0127
#3	.0122	.0306	-.0039	.0307	.0294	-.0124	.0126

Elem	Sb2068	Sn1899	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm
Avge	-.0065	.0051	.0094	.0570	.0617
SDev	.0012	.0008	.0016	.0010	.0003
%RSD	18.76	15.49	16.63	1.796	.5465
#1	-.0072	.0059	.0112	.0560	.0621

#2	-.0072	.0049	.0081	.0580	.0617
#3	-.0051	.0044	.0090	.0570	.0614

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	39175	--	--	--	--	--	--
SDev	162.6130	--	--	--	--	--	--
%RSD	.4150939	--	--	--	--	--	--
#1	39016	--	--	--	--	--	--
#2	39168	--	--	--	--	--	--
#3	39341	--	--	--	--	--	--

Method: WATERS Sample Name: icv 1 Operator:
Run Time: 03/29/00 23:28:40
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1890	Ba4934	Be3130	Ca3179	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	Q.2306	Q.3641	Q.1867	.2031	.2036	Q.3046	.2066
SDev	.0005	.0054	.0021	.0003	.0003	.0073	.0008
%RSD	.2004	1.495	1.103	.1744	.1741	2.409	.3971
#1	Q.2307	Q.3629	Q.1869	.2027	.2037	Q.3024	.2058
#2	Q.2310	Q.3593	Q.1886	.2033	.2039	Q.2986	.2074
#3	Q.2301	Q.3700	Q.1845	.2033	.2032	Q.3128	.2065
Errors	QC Fail	QC Fail	QC Fail	QC Pass	QC Pass	QC Fail	QC Pass
Value	.2000	.2000	.2000	.2000	.2000	.2000	.2000
Range	5.500	5.500	5.500	5.500	5.500	5.500	5.500

Elem	Co2286	Cr2677	Cu3247	Fe2714	K_7664	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.2060	.2035	.2013	Q.2181	Q1.885	.2054	.2054
SDev	.0007	.0009	.0010	.0080	.041	.0054	.0004
%RSD	.3236	.4628	.5154	3.649	2.167	2.622	.1790
#1	.2068	.2038	.2001	Q.2223	Q1.838	.1999	.2056
#2	.2059	.2043	.2019	Q.2231	1.915	.2057	.2055
#3	.2055	.2024	.2019	.2089	1.901	.2107	.2049
Errors	QC Pass	QC Pass	QC Pass	QC Fail	QC Fail	QC Pass	QC Pass
Value	.2000	.2000	.2000	.2000	2.000	.2000	.2000
Range	5.500	5.500	5.500	5.500	5.500	5.500	5.500

Elem	Ni2316	Pb2203	Se1960	2203/1	2203/2	1960/1	1960/2
Units	ppm						
Avge	.2001	.2102	.2107	.2107	.2083	.2107	.2098
SDev	.0017	.0035	.0027	.0059	.0034	.0021	.0041
%RSD	.8467	1.647	1.291	2.797	1.626	.9987	1.970
#1	.2007	.2064	Q.2138	.2039	.2105	.2130	.2146
#2	.2015	Q.2111	.2095	.2140	.2044	.2104	.2072
#3	.1982	Q.2131	.2087	.2142	.2101	.2089	.2077

Errors	QC Pass	QC Pass	QC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK
Value	.2000	.2000	.2000				
Range	5.500	5.500	5.500				
Elem	Sb2068	Sn1899	Tl1908	V_2924	Zn2062		
Units	ppm	ppm	ppm	ppm	ppm		
Avge	.1915	Q.1281	Q.2187	.2005	.2061		
SDev	.0049	.0015	.0096	.0007	.0013		
%RSD	2.561	1.184	4.397	.3656	.6065		
#1	Q.1861	Q.1284	Q.2171	.1998	.2074		
#2	.1928	Q.1294	.2100	.2012	.2062		
#3	.1956	Q.1265	Q.2290	.2005	.2049		

Errors	QC Pass	QC Fail	QC Fail	QC Pass	QC Pass		
Value	.2000	.2000	.2000	.2000	.2000		
Range	5.500	5.500	5.500	5.500	5.500		
IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	37262	--	--	--	--	--	--
SDev	58.75656	--	--	--	--	--	--
%RSD	.1576835	--	--	--	--	--	--
#1	37324	--	--	--	--	--	--
#2	37207	--	--	--	--	--	--
#3	37256	--	--	--	--	--	--

Method: WATERS Sample Name: icv 2 Operator:
Run Time: 03/29/00 23:45:46
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1890	Ba4934	Be3130	Ca3179	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.047	Q1.128	1.005	.9936	.9998	Q1.144	1.015
SDev	.002	.010	.004	.0020	.0018	.003	.001
%RSD	.2236	.8604	.4091	.1982	.1798	.2788	.1029
#1	1.049	Q1.139	1.002	.9958	1.001	Q1.147	1.016
#2	1.044	Q1.126	1.003	.9929	.9978	Q1.143	1.016
#3	1.047	Q1.119	1.010	.9921	1.000	Q1.141	1.014
Errors	QC Pass	QC Fail	QC Pass	QC Pass	QC Pass	QC Fail	QC Pass
Value	1.000	1.000	1.000	1.000	1.000	1.000	1.000
Range	5.500	5.500	5.500	5.500	5.500	5.500	5.500

Elem	Co2286	Cr2677	Cu3247	Fe2714	K_7664	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.012	1.001	1.029	Q1.090	Q11.14	.9737	1.009
SDev	.002	.000	.004	.017	.09	.0056	.001
%RSD	.1774	.0406	.3462	1.571	.7704	.5805	.1044
#1	1.011	1.001	1.032	Q1.109	Q11.05	.9790	1.009
#2	1.013	1.001	1.025	Q1.075	Q11.22	.9677	1.009
#3	1.014	1.001	1.030	Q1.088	Q11.14	.9742	1.011
Errors	QC Pass	QC Pass	QC Pass	QC Fail	QC Fail	QC Pass	QC Pass
Value	1.000	1.000	1.000	1.000	10.00	1.000	1.000
Range	5.500	5.500	5.500	5.500	5.500	5.500	5.500

Elem	Ni2316	Pb2203	Se1960	2203/1	2203/2	1960/1	1960/2
Units	ppm						
Avge	.9837	1.023	1.017	1.026	1.017	1.014	1.022
SDev	.0014	.003	.002	.003	.004	.003	.003
%RSD	.1459	.3267	.2262	.3200	.3655	.2567	.2595
#1	.9851	1.027	1.020	1.029	1.021	1.017	1.025
#2	.9837	1.022	1.015	1.026	1.014	1.012	1.021
#3	.9822	1.021	1.017	1.023	1.015	1.015	1.019
Errors	QC Pass	QC Pass	QC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK
Value	1.000	1.000	1.000				
Range	5.500	5.500	5.500				

Elem	Sb2068	Sn1899	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm
Avge	.9615	.9936	1.023	.9813	1.009
SDev	.0047	.0059	.011	.0009	.001
%RSD	.4880	.5940	1.069	.0936	.1468
#1	.9669	.9981	1.026	.9808	1.008
#2	.9586	.9958	1.011	.9807	1.009
#3	.9589	.9869	1.033	.9823	1.011
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass

Value	1.000	1.000	1.000	1.000	1.000		
Range	5.500	5.500	5.500	5.500	5.500		
IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	37163	--	--	--	--	--	--
SDev	394.7104	--	--	--	--	--	--
%RSD	1.062116	--	--	--	--	--	--
#1	36707	--	--	--	--	--	--
#2	37399	--	--	--	--	--	--
#3	37382	--	--	--	--	--	--

Method: WATERS Sample Name: icb Operator:
Run Time: 03/29/00 23:56:41
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1890	Ba4934	Be3130	Ca3179	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0037	-.0191	L-.0216	.0010	.0006	.0047	.0003
SDev	.0072	.3009	.0200	.0013	.0006	.0044	.0003
%RSD	194.8	1577.	92.95	124.8	88.06	95.11	85.06
#1	-.0003	H.1567	L-.0075	.0003	.0003	.0027	.0006
#2	-.0006	H.1526	L-.0127	.0003	.0003	.0016	.0002
#3	H.0121	L-.3665	L-.0445	.0026	.0013	.0098	.0001
Errors	LC Pass	LC Pass	LC Low	LC Pass	LC Pass	LC Pass	LC Pass
High	.0050	.0500	.0050	.0050	.0015	.0500	.0015
Low	-.0050	-.0500	-.0050	-.0050	-.0015	-.0500	-.0015

Elem	Co2286	Cr2677	Cu3247	Fe2714	K_7664	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0000	.0018	L-.0075	.0202	H1.099	.0209	.0003
SDev	.0010	.0036	.0085	.0745	2.124	.0350	.0002
%RSD	5183.	198.6	113.4	368.9	193.3	167.0	59.72
#1	.0011	-.0005	L-.0032	-.0229	-.0610	.0012	.0001
#2	-.0005	-.0000	-.0020	-.0227	L-.1924	.0003	.0005
#3	-.0007	H.0060	L-.0173	H.1062	H3.551	H.0613	.0004
Errors	LC Pass	LC Pass	LC Low	LC Pass	LC High	LC Pass	LC Pass
High	.0050	.0050	.0025	.0500	.1000	.0500	.0050
Low	-.0050	-.0050	-.0025	-.0500	-.1000	-.0500	-.0050

Elem	Ni2316	Pb2203	Se1960	2203/1	2203/2	1960/1	1960/2
Units	ppm						
Avge	.0021	L-.0058	.0040	-.0113	.0047	.0047	.0019
SDev	.0004	.0014	.0029	.0020	.0027	.0026	.0045
%RSD	18.52	25.06	73.46	17.60	58.21	54.41	239.5
#1	.0019	L-.0064	.0006	-.0133	.0067	.0019	-.0027
#2	.0019	L-.0068	H.0058	-.0114	.0016	.0053	.0063
#3	.0025	L-.0041	H.0054	-.0093	.0058	.0070	.0020
Errors	LC Pass	LC Low	LC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High	.0050	.0025	.0050				
Low	-.0050	-.0025	-.0050				

Elem	Sb2068	Sn1899	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm
Avge	L-.0032	-.0084	H.0029	.0041	-.0010
SDev	.0087	.0277	.0208	.0052	.0031
%RSD	270.4	328.3	725.0	125.5	307.0
#1	-.0003	.0066	H.0157	.0013	.0005
#2	H.0036	.0084	H.0139	.0010	.0011
#3	L-.0131	-.0404	L-.0211	H.0101	-.0046
Errors	LC Low	LC Pass	LC High	LC Pass	LC Pass

High	.0025	.0500	.0010	.0050	.0100
Low	-.0025	-.0500	-.0020	-.0050	-.0100

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	47353	--	--	--	--	--	--
SDev	17447.44	--	--	--	--	--	--
%RSD	36.84521	--	--	--	--	--	--
#1	37445	--	--	--	--	--	--
#2	37116	--	--	--	--	--	--
#3	67499	--	--	--	--	--	--

Method: WATERS Sample Name: 89511 Operator:
Run Time: 03/30/00 00:02:50
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1890	Ba4934	Be3130	Ca3179	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0007	6.882	-.0162	.1496	.0006	25.40	-.0004
SDev	.0003	.052	.0029	.0010	.0001	.07	.0006
%RSD	47.63	.7541	17.72	.6401	11.50	.2883	151.0
#1	-.0004	6.932	-.0132	.1505	.0005	25.43	-.0010
#2	-.0006	6.885	-.0190	.1498	.0006	25.45	-.0004
#3	-.0011	6.829	-.0164	.1486	.0006	25.31	.0002

Elem	Co2286	Cr2677	Cu3247	Fe2714	K_7664	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0002	.0101	.0009	6.117	3.488	6.377	.0562
SDev	.0004	.0010	.0006	.042	.105	.026	.0003
%RSD	246.8	9.685	68.25	.6830	3.016	.4152	.5857
#1	.0003	.0112	.0013	6.126	3.555	6.403	.0565
#2	-.0004	.0094	.0002	6.154	3.542	6.378	.0563
#3	-.0004	.0096	.0012	6.072	3.367	6.350	.0559

Elem	Ni2316	Pb2203	Se1960	2203/1	2203/2	1960/1	1960/2
Units	ppm						
Avge	.0031	.0022	-.0021	.0001	.0056	-.0032	-.0005
SDev	.0013	.0037	.0020	.0050	.0011	.0052	.0061
%RSD	43.14	169.6	98.59	8571.	19.02	162.1	1328.
#1	.0030	-.0003	-.0031	-.0033	.0050	-.0083	.0066
#2	.0018	.0004	.0003	-.0023	.0050	.0020	-.0039
#3	.0044	.0064	-.0033	.0058	.0068	-.0033	-.0040

Elem	Sb2068	Sn1899	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm
Avge	.0042	.0102	.0052	.0137	.0515
SDev	.0016	.0057	.0027	.0006	.0004
%RSD	38.52	55.41	51.37	4.252	.7864
#1	.0048	.0047	.0075	.0130	.0518

#2	.0053	.0100	.0023	.0140	.0511
#3	.0023	.0160	.0056	.0140	.0517

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	36359	--	--	--	--	--	--
SDev	434.9931	--	--	--	--	--	--
%RSD	1.196384	--	--	--	--	--	--
#1	35872	--	--	--	--	--	--
#2	36496	--	--	--	--	--	--
#3	36709	--	--	--	--	--	--

Method: WATERS Sample Name: 89530 Operator:
Run Time: 03/30/00 00:08:59
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1890	Ba4934	Be3130	Ca3179	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0345	3.261	.0296	.4911	.0003	26.66	.0215
SDev	.0010	.010	.0058	.0008	.0000	.04	.0004
%RSD	2.979	.3074	19.64	.1653	4.505	.1672	2.086
#1	.0333	3.260	.0271	.4916	.0003	26.61	.0216
#2	.0349	3.251	.0254	.4902	.0003	26.66	.0219
#3	.0353	3.271	.0362	.4916	.0003	26.70	.0210

Elem	Co2286	Cr2677	Cu3247	Fe2714	K_7664	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0068	.0631	1.611	37.29	26.06	3.028	.2680
SDev	.0010	.0010	.003	.08	.12	.015	.0004
%RSD	14.26	1.624	.2011	.2275	.4754	.5084	.1456
#1	.0057	.0619	1.609	37.23	26.17	3.024	.2676
#2	.0075	.0637	1.610	37.26	25.93	3.015	.2680
#3	.0073	.0637	1.615	37.39	26.08	3.045	.2684

Elem	Ni2316	Pb2203	Se1960	2203/1	2203/2	1960/1	1960/2
Units	ppm						
Avge	.0654	3.264	.0281	3.285	3.221	.0273	.0290
SDev	.0009	.001	.0030	.002	.001	.0048	.0023
%RSD	1.442	.0447	10.66	.0698	.0166	17.70	7.942
#1	.0650	3.265	.0263	3.286	3.221	.0256	.0270
#2	.0648	3.265	.0315	3.286	3.220	.0327	.0285
#3	.0665	3.262	.0264	3.282	3.221	.0235	.0315

Elem	Sb2068	Sn1899	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm
Avge	1.058	.1901	.0158	.0722	1.970
SDev	.001	.0045	.0044	.0002	.006
%RSD	.0586	2.364	28.25	.2994	.3170
#1	1.059	.1918	.0107	.0720	1.962

#2	1.058	.1850	.0177	.0724	1.974
#3	1.059	.1935	.0189	.0723	1.973

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	38288	--	--	--	--	--	--
SDev	189.2098	--	--	--	--	--	--
%RSD	.4941708	--	--	--	--	--	--
#1	38088	--	--	--	--	--	--
#2	38313	--	--	--	--	--	--
#3	38464	--	--	--	--	--	--

Method: WATERS Sample Name: 89531 Operator:
Run Time: 03/30/00 00:15:09
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1890	Ba4934	Be3130	Ca3179	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.1899	1.134	.3576	.5821	.0045	66.89	.0975
SDev	.0008	.009	.0039	.0024	.0001	.29	.0003
%RSD	.4086	.8207	1.086	.4121	2.163	.4397	.3433
#1	.1894	1.143	.3620	.5849	.0044	66.55	.0977
#2	.1895	1.133	.3564	.5805	.0045	67.04	.0977
#3	.1908	1.125	.3545	.5810	.0046	67.08	.0971

Elem	Co2286	Cr2677	Cu3247	Fe2714	K_7664	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.1102	7.947	491.3	102.9	4.946	5.396	.6807
SDev	.0011	.017	.3	.2	.138	.011	.0017
%RSD	1.029	.2192	.0582	.2122	2.780	.2023	.2534
#1	.1092	7.927	491.2	102.7	5.079	5.397	.6787
#2	.1114	7.954	491.7	103.0	4.956	5.385	.6815
#3	.1101	7.959	491.2	103.1	4.804	5.407	.6818

Elem	Ni2316	Pb2203	Se1960	2203/1	2203/2	1960/1	1960/2
Units	ppm						
Avge	9.639	46.65	.0073	46.98	46.00	.0014	.0185
SDev	.019	.12	.0042	.09	.19	.0054	.0110
%RSD	.1997	.2641	56.89	.1928	.4204	377.1	59.80
#1	9.618	46.59	.0038	46.92	45.93	.0024	.0059
#2	9.656	46.80	.0062	47.08	46.21	-.0044	.0268
#3	9.642	46.57	.0119	46.94	45.85	.0063	.0226

Elem	Sb2068	Sn1899	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm
Avge	.8482	73.94	.0142	.0281	227.7
SDev	.0051	.25	.0080	.0010	1.7
%RSD	.5995	.3448	56.42	3.405	.7366
#1	.8480	73.64	.0160	.0271	226.2

#2	.8534	74.09	.0212	.0282	229.5
#3	.8433	74.09	.0055	.0290	227.4

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	35099	--	--	--	--	--	--
SDev	266.6315	--	--	--	--	--	--
%RSD	.7596482	--	--	--	--	--	--
#1	34828	--	--	--	--	--	--
#2	35109	--	--	--	--	--	--
#3	35361	--	--	--	--	--	--

Method: WATERS Sample Name: 89581 Operator:
Run Time: 03/30/00 00:22:15
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1890	Ba4934	Be3130	Ca3179	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0016	.2951	-.0138	.0134	.0000	12.94	.0004
SDev	.0005	.0053	.0058	.0000	.0000	.02	.0003
%RSD	29.08	1.795	42.14	.0378	32.35	.1258	90.77
#1	-.0011	.2937	-.0093	.0134	.0000	12.92	.0002
#2	-.0018	.2907	-.0117	.0133	.0000	12.95	.0002
#3	-.0019	.3010	-.0204	.0134	.0001	12.94	.0007

Elem	Co2286	Cr2677	Cu3247	Fe2714	K_7664	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.2668	.1565	.1529	2.744	5.630	1.642	.1553
SDev	.0005	.0003	.0079	.015	.010	.001	.0001
%RSD	.2004	.1739	5.170	.5448	.1760	.0716	.0750
#1	.2667	.1563	.1598	2.733	5.630	1.642	.1552
#2	.2663	.1564	.1443	2.761	5.640	1.642	.1554
#3	.2674	.1568	.1545	2.739	5.620	1.644	.1552

Elem	Ni2316	Pb2203	Se1960	2203/1	2203/2	1960/1	1960/2
Units	ppm						
Avge	.1076	.0123	.0045	.0101	.0160	.0038	.0054
SDev	.0010	.0022	.0027	.0034	.0035	.0066	.0053
%RSD	.9585	18.02	59.95	34.10	21.81	175.2	98.39
#1	.1064	.0116	.0046	.0072	.0195	.0052	.0029
#2	.1083	.0148	.0018	.0139	.0158	-.0034	.0115
#3	.1081	.0105	.0072	.0091	.0126	.0096	.0018

Elem	Sb2068	Sn1899	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm
Avge	.0027	.0127	-.0025	.0018	.1487
SDev	.0020	.0036	.0017	.0003	.0034
%RSD	72.99	28.34	67.41	16.78	2.251
#1	.0026	.0140	-.0006	.0021	.1510
#2	.0008	.0087	-.0036	.0016	.1448
#3	.0048	.0155	-.0034	.0016	.1503

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	36673	--	--	--	--	--	--
SDev	147.2900	--	--	--	--	--	--
%RSD	.4016342	--	--	--	--	--	--
#1	36531	--	--	--	--	--	--
#2	36825	--	--	--	--	--	--
#3	36662	--	--	--	--	--	--

Method: WATERS Sample Name: 89582 Operator:
Run Time: 03/30/00 00:28:24
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1890	Ba4934	Be3130	Ca3179	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0013	.2702	-.0126	.0105	.0000	12.43	.0003
SDev	.0009	.0031	.0046	.0001	.0000	.05	.0002
%RSD	70.47	1.136	36.37	.7185	435.2	.3859	54.93
#1	-.0006	.2735	-.0076	.0106	-.0000	12.49	.0005
#2	-.0023	.2698	-.0136	.0104	.0000	12.41	.0004
#3	-.0009	.2674	-.0165	.0105	.0000	12.41	.0001

Elem	Co2286	Cr2677	Cu3247	Fe2714	K_7664	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.2549	.1696	.0761	2.619	5.398	1.604	.1417
SDev	.0013	.0010	.0123	.009	.052	.007	.0006
%RSD	.5012	.6105	16.22	.3529	.9654	.4173	.3913
#1	.2564	.1705	.0889	2.609	5.427	1.610	.1424
#2	.2542	.1685	.0751	2.620	5.338	1.604	.1415
#3	.2541	.1698	.0643	2.627	5.430	1.597	.1413

Elem	Ni2316	Pb2203	Se1960	2203/1	2203/2	1960/1	1960/2
Units	ppm						
Avge	.1122	.0031	.0039	.0015	.0056	.0037	.0035
SDev	.0011	.0016	.0029	.0036	.0026	.0020	.0051
%RSD	1.023	50.77	75.17	246.9	46.48	53.25	147.3
#1	.1131	.0015	.0005	-.0020	.0076	.0016	-.0024
#2	.1109	.0032	.0058	.0012	.0064	.0056	.0055
#3	.1127	.0046	.0053	.0052	.0027	.0040	.0072

Elem	Sb2068	Sn1899	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm
Avge	.0013	.0076	-.0009	.0014	.1040
SDev	.0029	.0020	.0061	.0011	.0049
%RSD	225.9	26.90	690.8	76.31	4.730
#1	.0044	.0089	-.0059	.0007	.1091
#2	.0006	.0086	-.0027	.0026	.1036
#3	-.0012	.0052	.0059	.0009	.0992

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	36304	--	--	--	--	--	--
SDev	275.9511	--	--	--	--	--	--
%RSD	.7601121	--	--	--	--	--	--
#1	36004	--	--	--	--	--	--
#2	36361	--	--	--	--	--	--
#3	36547	--	--	--	--	--	--

Method: WATERS Sample Name: 89582d Operator:
Run Time: 03/30/00 00:34:34
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1890	Ba4934	Be3130	Ca3179	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0013	.2896	-.0118	.0105	.0000	12.40	.0001
SDev	.0008	.0063	.0009	.0001	.0000	.10	.0002
%RSD	65.18	2.180	7.895	.5504	279.9	.7695	237.9
#1	-.0021	.2920	-.0122	.0105	-.0000	12.50	-.0001
#2	-.0013	.2944	-.0107	.0104	.0000	12.31	.0002
#3	-.0004	.2824	-.0124	.0105	.0000	12.38	.0002

Elem	Co2286	Cr2677	Cu3247	Fe2714	K_7664	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.2549	.1919	.0473	2.710	5.365	1.597	.1433
SDev	.0009	.0016	.0054	.021	.097	.009	.0010
%RSD	.3570	.8599	11.44	.7578	1.808	.5702	.7224
#1	.2553	.1934	.0533	2.728	5.377	1.606	.1444
#2	.2539	.1901	.0457	2.688	5.262	1.587	.1424
#3	.2556	.1922	.0429	2.714	5.455	1.598	.1432

Elem	Ni2316	Pb2203	Se1960	2203/1	2203/2	1960/1	1960/2
Units	ppm						
Avge	.1282	.0046	-.0022	.0005	.0119	-.0036	.0001
SDev	.0019	.0030	.0031	.0043	.0016	.0055	.0044
%RSD	1.500	66.13	144.9	868.4	13.31	152.2	3197.
#1	.1301	.0061	.0014	.0034	.0107	.0020	-.0004
#2	.1280	.0065	-.0037	.0024	.0137	-.0039	-.0040
#3	.1263	.0011	-.0042	-.0044	.0112	-.0090	.0048

Elem	Sb2068	Sn1899	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm
Avge	.0028	.0033	-.0015	.0021	.0930
SDev	.0011	.0020	.0058	.0005	.0026
%RSD	39.91	61.75	375.7	25.29	2.738
#1	.0019	.0025	-.0074	.0015	.0960
#2	.0025	.0055	.0041	.0023	.0919
#3	.0040	.0017	-.0013	.0026	.0913

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	36325	--	--	--	--	--	--
SDev	330.7028	--	--	--	--	--	--
%RSD	.9103916	--	--	--	--	--	--
#1	35946	--	--	--	--	--	--
#2	36477	--	--	--	--	--	--
#3	36553	--	--	--	--	--	--

Method: WATERS Sample Name: 89582ms Operator:
Run Time: 03/30/00 00:40:43
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1890	Ba4934	Be3130	Ca3179	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.065	1.349	1.091	1.094	1.068	12.73	1.073
SDev	.003	.010	.006	.002	.005	.03	.004
%RSD	.2825	.7169	.5414	.2238	.4430	.2330	.3857
#1	1.066	1.360	1.096	1.097	1.071	12.76	1.077
#2	1.067	1.345	1.084	1.093	1.071	12.75	1.075
#3	1.061	1.342	1.092	1.093	1.063	12.70	1.069

Elem	Co2286	Cr2677	Cu3247	Fe2714	K_7664	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.329	1.219	1.167	3.618	19.83	2.564	1.208
SDev	.004	.003	.008	.025	.09	.009	.003
%RSD	.2944	.2643	.6914	.6903	.4698	.3481	.2845
#1	1.332	1.221	1.176	3.647	19.94	2.562	1.211
#2	1.330	1.221	1.164	3.601	19.77	2.574	1.209
#3	1.324	1.215	1.161	3.607	19.78	2.556	1.204

Elem	Ni2316	Pb2203	Se1960	2203/1	2203/2	1960/1	1960/2
Units	ppm						
Avge	1.145	1.102	1.074	1.108	1.089	1.072	1.077
SDev	.001	.009	.007	.009	.009	.009	.004
%RSD	.0766	.8197	.6894	.8281	.8330	.8740	.3323
#1	1.144	1.108	1.073	1.113	1.096	1.071	1.076
#2	1.144	1.107	1.082	1.114	1.092	1.082	1.081
#3	1.146	1.092	1.067	1.098	1.079	1.063	1.075

Elem	Sb2068	Sn1899	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm
Avge	1.028	2.092	1.091	1.037	1.140
SDev	.005	.007	.006	.002	.004
%RSD	.4813	.3465	.5327	.1702	.3722
#1	1.032	2.097	1.084	1.038	1.140
#2	1.029	2.095	1.095	1.039	1.145
#3	1.022	2.084	1.094	1.035	1.136

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	36366	--	--	--	--	--	--
SDev	265.4638	--	--	--	--	--	--
%RSD	.7299779	--	--	--	--	--	--
#1	36135	--	--	--	--	--	--
#2	36307	--	--	--	--	--	--
#3	36656	--	--	--	--	--	--

Method: WATERS Sample Name: 89582msd Operator:
Run Time: 03/30/00 00:46:53
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1890	Ba4934	Be3130	Ca3179	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.075	1.346	1.102	1.101	1.073	13.17	1.079
SDev	.002	.003	.006	.001	.002	.02	.001
%RSD	.2093	.2564	.5174	.1077	.1431	.1423	.0992
#1	1.073	1.349	1.103	1.102	1.072	13.18	1.080
#2	1.077	1.343	1.096	1.100	1.075	13.19	1.079
#3	1.075	1.345	1.107	1.101	1.073	13.15	1.077

Elem	Co2286	Cr2677	Cu3247	Fe2714	K_7664	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.341	1.231	1.165	3.729	20.02	2.611	1.217
SDev	.004	.001	.001	.024	.03	.001	.001
%RSD	.2680	.0744	.1186	.6499	.1302	.0194	.0569
#1	1.345	1.232	1.167	3.701	20.03	2.611	1.218
#2	1.338	1.230	1.165	3.744	20.03	2.612	1.218
#3	1.340	1.232	1.164	3.742	19.99	2.611	1.217

Elem	Ni2316	Pb2203	Se1960	2203/1	2203/2	1960/1	1960/2
Units	ppm						
Avge	1.153	1.108	1.080	1.110	1.102	1.077	1.084
SDev	.003	.005	.007	.004	.008	.006	.007
%RSD	.2272	.4774	.6126	.4010	.7215	.6005	.6370
#1	1.156	1.106	1.073	1.110	1.095	1.071	1.077
#2	1.152	1.104	1.086	1.106	1.099	1.084	1.091
#3	1.151	1.114	1.079	1.115	1.111	1.077	1.083

Elem	Sb2068	Sn1899	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm
Avge	1.030	2.111	1.107	1.040	1.151
SDev	.006	.003	.006	.001	.002
%RSD	.5423	.1539	.5661	.1057	.1636
#1	1.032	2.114	1.113	1.039	1.152
#2	1.023	2.108	1.107	1.041	1.152
#3	1.034	2.111	1.101	1.039	1.149

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	36520	--	--	--	--	--	--
SDev	50.52062	--	--	--	--	--	--
%RSD	.1383356	--	--	--	--	--	--
#1	36577	--	--	--	--	--	--
#2	36504	--	--	--	--	--	--
#3	36480	--	--	--	--	--	--

Method: WATERS Sample Name: 89497 1:4sd Operator:
Run Time: 03/30/00 00:54:22
Comment:
Mode: CONC Corr. Factor: 5

Elem	Ag3280	Al3082	As1890	Ba4934	Be3130	Ca3179	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0064	54.12	-.1001	.2182	.0052	146.5	.0036
SDev	.0030	.16	.0242	.0010	.0002	.3	.0006
%RSD	47.71	.3046	24.14	.4523	4.517	.2142	15.22
#1	-.0029	54.24	-.0805	.2175	.0051	146.9	.0034
#2	-.0087	54.18	-.1272	.2178	.0051	146.5	.0043
#3	-.0074	53.93	-.0928	.2193	.0055	146.3	.0032

Elem	Co2286	Cr2677	Cu3247	Fe2714	K_7664	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0022	.0452	.0322	12.83	6.532	9.735	.1448
SDev	.0049	.0042	.0017	.05	.376	.069	.0008
%RSD	224.4	9.176	5.273	.3653	5.755	.7046	.5576
#1	.0001	.0486	.0334	12.82	6.763	9.812	.1452
#2	-.0013	.0406	.0303	12.78	6.098	9.715	.1438
#3	.0078	.0465	.0330	12.88	6.735	9.679	.1452

Elem	Ni2316	Pb2203	Se1960	2203/1	2203/2	1960/1	1960/2
Units	ppm						
Avge	.0196	.0785	.0357	.0724	.0869	.0518	.0002
SDev	.0052	.0060	.0102	.0054	.0071	.0147	.0041
%RSD	26.55	7.620	28.57	7.524	8.127	28.37	1951.
#1	.0183	.0723	.0241	.0666	.0795	.0357	-.0022
#2	.0152	.0792	.0433	.0731	.0876	.0645	-.0021
#3	.0253	.0842	.0397	.0775	.0936	.0554	.0050

Elem	Sb2068	Sn1899	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm
Avge	.0042	.0033	.0883	.0842	.1619
SDev	.0154	.0261	.0045	.0002	.0010
%RSD	365.6	783.3	5.143	.2698	.5950
#1	.0199	-.0193	.0917	.0844	.1620
#2	-.0109	-.0025	.0831	.0840	.1608
#3	.0037	.0319	.0900	.0844	.1627

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	38045	--	--	--	--	--	--
SDev	137.4421	--	--	--	--	--	--
%RSD	.3612651	--	--	--	--	--	--
#1	38121	--	--	--	--	--	--
#2	37886	--	--	--	--	--	--
#3	38127	--	--	--	--	--	--

Method: WATERS Sample Name: 89497 1:1msa Operator:
Run Time: 03/30/00 01:00:31
Comment:
Mode: CONC Corr. Factor: 2

Elem	Ag3280	Al3082	As1890	Ba4934	Be3130	Ca3179	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.2240	55.48	.1622	.4159	.1927	146.8	.1923
SDev	.0019	.36	.0032	.0009	.0007	.3	.0016
%RSD	.8326	.6518	1.998	.2147	.3550	.2028	.8598
#1	.2254	55.75	.1587	.4165	.1932	146.9	.1926
#2	.2248	55.61	.1630	.4162	.1931	147.1	.1937
#3	.2219	55.07	.1650	.4148	.1919	146.5	.1905

Elem	Co2286	Cr2677	Cu3247	Fe2714	K_7664	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.1948	.2405	.2405	13.44	10.21	10.16	.3427
SDev	.0018	.0011	.0027	.03	.04	.02	.0005
%RSD	.9247	.4487	1.113	.2392	.3432	.1746	.1426
#1	.1937	.2414	.2421	13.41	10.25	10.16	.3429
#2	.1968	.2408	.2420	13.44	10.21	10.18	.3431
#3	.1938	.2393	.2375	13.47	10.18	10.15	.3422

Elem	Ni2316	Pb2203	Se1960	2203/1	2203/2	1960/1	1960/2
Units	ppm						
Avge	.2052	.2789	.1962	.2804	.2742	.1936	.2000
SDev	.0027	.0049	.0016	.0067	.0056	.0024	.0048
%RSD	1.296	1.754	.8161	2.385	2.036	1.225	2.382
#1	.2036	.2822	.1980	.2823	.2805	.1949	.2030
#2	.2038	.2812	.1952	.2860	.2699	.1908	.2026
#3	.2083	.2733	.1953	.2730	.2722	.1950	.1945

Elem	Sb2068	Sn1899	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm
Avge	.1809	.1422	.2229	.2691	.3491
SDev	.0044	.0113	.0093	.0013	.0055
%RSD	2.435	7.930	4.190	.4638	1.565
#1	.1776	.1545	.2171	.2688	.3444
#2	.1794	.1324	.2337	.2704	.3477
#3	.1859	.1397	.2179	.2680	.3551

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	37211	--	--	--	--	--	--
SDev	205.0000	--	--	--	--	--	--
%RSD	.5509124	--	--	--	--	--	--
#1	37006	--	--	--	--	--	--
#2	37211	--	--	--	--	--	--
#3	37416	--	--	--	--	--	--

Method: WATERS Sample Name: icv 1 Operator:
Run Time: 03/30/00 01:06:41
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1890	Ba4934	Be3130	Ca3179	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	Q.2324	Q.4015	.1913	.2041	.2046	Q.2728	.2058
SDev	.0002	.0030	.0027	.0004	.0002	.0006	.0005
%RSD	.0917	.7437	1.410	.1908	.1090	.2120	.2621
#1	Q.2324	Q.3989	Q.1884	.2038	.2046	Q.2723	.2060
#2	Q.2321	Q.4008	.1919	.2039	.2044	Q.2734	.2052
#3	Q.2325	Q.4047	.1937	.2045	.2049	Q.2726	.2063
Errors	QC Fail	QC Fail	QC Pass	QC Pass	QC Pass	QC Fail	QC Pass
Value	.2000	.2000	.2000	.2000	.2000	.2000	.2000
Range	5.500	5.500	5.500	5.500	5.500	5.500	5.500

Elem	Co2286	Cr2677	Cu3247	Fe2714	K_7664	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.2061	.2040	.2065	Q.1871	1.966	.2008	.2060
SDev	.0001	.0008	.0015	.0044	.055	.0033	.0004
%RSD	.0647	.4018	.7244	2.365	2.775	1.642	.1941
#1	.2062	.2049	.2079	.1922	2.013	.2008	.2059
#2	.2060	.2033	.2049	Q.1845	1.979	.1975	.2057
#3	.2059	.2038	.2067	Q.1846	1.906	.2041	.2064
Errors	QC Pass	QC Pass	QC Pass	QC Fail	QC Pass	QC Pass	QC Pass
Value	.2000	.2000	.2000	.2000	2.000	.2000	.2000
Range	5.500	5.500	5.500	5.500	5.500	5.500	5.500

Elem	Ni2316	Pb2203	Se1960	2203/1	2203/2	1960/1	1960/2
Units	ppm						
Avge	.1997	.2090	Q.2167	.2084	.2092	.2178	.2137
SDev	.0008	.0017	.0032	.0037	.0022	.0050	.0006
%RSD	.4021	.8269	1.499	1.759	1.035	2.289	.2846
#1	.1998	.2077	Q.2186	.2058	.2106	.2211	.2131
#2	.2005	.2083	Q.2129	.2069	.2103	.2121	.2140
#3	.1989	.2109	Q.2185	.2126	.2067	.2203	.2142
Errors	QC Pass	QC Pass	QC Fail	NOCHECK	NOCHECK	NOCHECK	NOCHECK
Value	.2000	.2000	.2000				
Range	5.500	5.500	5.500				

Elem	Sb2068	Sn1899	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm
Avge	.1901	Q.1209	Q.2145	.2010	.2048
SDev	.0006	.0016	.0128	.0006	.0006
%RSD	.3187	1.309	5.959	.2917	.2949
#1	.1908	Q.1220	.2016	.2015	.2049
#2	.1896	Q.1216	Q.2272	.2003	.2042
#3	.1898	Q.1191	Q.2147	.2011	.2054
Errors	QC Pass	QC Fail	QC Fail	QC Pass	QC Pass

Value	.2000	.2000	.2000	.2000	.2000		
Range	5.500	5.500	5.500	5.500	5.500		
IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	36842	--	--	--	--	--	--
SDev	121.5168	--	--	--	--	--	--
%RSD	.3298352	--	--	--	--	--	--
#1	36844	--	--	--	--	--	--
#2	36962	--	--	--	--	--	--
#3	36719	--	--	--	--	--	--

Method: WATERS Sample Name: icv 2 Operator:
Run Time: 03/30/00 01:13:38
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1890	Ba4934	Be3130	Ca3179	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.051	Q1.159	1.009	.9979	1.003	Q1.146	1.018
SDev	.001	.012	.008	.0016	.001	.005	.001
%RSD	.1408	1.055	.7691	.1642	.0720	.3993	.0976
#1	1.052	Q1.166	1.013	.9996	1.003	Q1.141	1.018
#2	1.051	Q1.166	1.014	.9963	1.003	Q1.151	1.016
#3	1.049	Q1.145	1.000	.9977	1.002	Q1.146	1.018
Errors	QC Pass	QC Fail	QC Pass	QC Pass	QC Pass	QC Fail	QC Pass
Value	1.000	1.000	1.000	1.000	1.000	1.000	1.000
Range	5.500	5.500	5.500	5.500	5.500	5.500	5.500

Elem	Co2286	Cr2677	Cu3247	Fe2714	K_7664	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	1.017	1.005	1.031	Q1.083	Q11.28	.9749	1.014
SDev	.001	.002	.002	.027	.11	.0047	.001
%RSD	.0896	.1610	.2241	2.478	1.016	.4825	.1218
#1	1.017	1.003	1.032	Q1.057	Q11.42	.9747	1.013
#2	1.016	1.006	1.032	Q1.080	Q11.20	.9797	1.015
#3	1.017	1.006	1.028	Q1.111	Q11.24	.9703	1.014
Errors	QC Pass	QC Pass	QC Pass	QC Fail	QC Fail	QC Pass	QC Pass
Value	1.000	1.000	1.000	1.000	10.00	1.000	1.000
Range	5.500	5.500	5.500	5.500	5.500	5.500	5.500

Elem	Ni2316	Pb2203	Se1960	2203/1	2203/2	1960/1	1960/2
Units	ppm						
Avge	.9895	1.030	1.027	1.035	1.019	1.027	1.028
SDev	.0015	.001	.009	.003	.004	.010	.008
%RSD	.1511	.0911	.9090	.2556	.4158	.9994	.7489
#1	.9892	1.030	1.038	1.038	1.015	1.038	1.036
#2	.9911	1.030	1.022	1.033	1.024	1.020	1.024
#3	.9881	1.029	1.022	1.033	1.018	1.022	1.022
Errors	QC Pass	QC Pass	QC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK
Value	1.000	1.000	1.000				
Range	5.500	5.500	5.500				

Elem	Sb2068	Sn1899	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm
Avge	.9646	.9964	1.035	.9828	1.006
SDev	.0041	.0026	.005	.0022	.002
%RSD	.4222	.2558	.5209	.2252	.1745
#1	.9681	.9934	1.036	.9805	1.004
#2	.9655	.9979	1.040	.9831	1.007
#3	.9601	.9978	1.029	.9849	1.008
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass

Value	1.000	1.000	1.000	1.000	1.000		
Range	5.500	5.500	5.500	5.500	5.500		
IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	37235	--	--	--	--	--	--
SDev	167.0359	--	--	--	--	--	--
%RSD	.4485992	--	--	--	--	--	--
#1	37066	--	--	--	--	--	--
#2	37239	--	--	--	--	--	--
#3	37400	--	--	--	--	--	--

Method: WATERS Sample Name: icb Operator:
Run Time: 03/30/00 01:20:22
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1890	Ba4934	Be3130	Ca3179	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0013	H.1450	L-.0125	.0002	.0002	-.0004	.0008
SDev	.0001	.0061	.0053	.0000	.0000	.0008	.0001
%RSD	8.258	4.233	42.50	23.24	4.174	220.6	18.07
#1	-.0014	H.1501	L-.0078	.0002	.0002	.0004	.0006
#2	-.0012	H.1466	L-.0114	.0002	.0002	-.0012	.0008
#3	-.0014	H.1382	L-.0183	.0002	.0002	-.0003	.0009
Errors	LC Pass	LC High	LC Low	LC Pass	LC Pass	LC Pass	LC Pass
High	.0050	.0500	.0050	.0050	.0015	.0500	.0015
Low	-.0050	-.0500	-.0050	-.0050	-.0015	-.0500	-.0015

Elem	Co2286	Cr2677	Cu3247	Fe2714	K_7664	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0007	-.0005	.0009	-.0268	L-.1788	-.0005	.0002
SDev	.0006	.0008	.0009	.0061	.0427	.0015	.0001
%RSD	78.29	140.7	100.6	22.82	23.88	286.1	45.40
#1	.0009	-.0008	.0014	-.0296	L-.1564	-.0023	.0001
#2	.0001	.0003	-.0001	-.0310	L-.2281	.0003	.0001
#3	.0012	-.0012	.0014	-.0198	L-.1520	.0004	.0002
Errors	LC Pass	LC Pass	LC Pass	LC Pass	LC Low	LC Pass	LC Pass
High	.0050	.0050	.0025	.0500	.1000	.0500	.0050
Low	-.0050	-.0050	-.0025	-.0500	-.1000	-.0500	-.0050

Elem	Ni2316	Pb2203	Se1960	2203/1	2203/2	1960/1	1960/2
Units	ppm						
Avge	.0007	.0014	H.0054	-.0011	.0056	.0070	.0014
SDev	.0021	.0036	.0008	.0038	.0038	.0033	.0042
%RSD	300.3	253.0	14.96	345.8	67.13	46.58	298.6
#1	.0024	H.0034	H.0062	.0001	.0091	.0100	-.0022
#2	.0015	L-.0027	H.0053	-.0053	.0017	.0075	.0004
#3	-.0017	H.0035	.0046	.0019	.0060	.0035	.0060
Errors	LC Pass	LC Pass	LC High	NOCHECK	NOCHECK	NOCHECK	NOCHECK
High	.0050	.0025	.0050				
Low	-.0050	-.0025	-.0050				

Elem	Sb2068	Sn1899	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm
Avge	.0009	.0008	H.0070	.0013	.0006
SDev	.0028	.0036	.0078	.0006	.0002
%RSD	295.6	448.9	111.9	43.95	39.20
#1	-.0023	.0001	L-.0020	.0020	.0008
#2	H.0026	-.0024	H.0118	.0008	.0006
#3	.0025	.0047	H.0111	.0013	.0003
Errors	LC Pass	LC Pass	LC High	LC Pass	LC Pass

High	.0025	.0500	.0010	.0050	.0100		
Low	-.0025	-.0500	-.0020	-.0050	-.0100		
IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	36967	--	--	--	--	--	--
SDev	130.0820	--	--	--	--	--	--
%RSD	.3518901	--	--	--	--	--	--
#1	36878	--	--	--	--	--	--
#2	37116	--	--	--	--	--	--
#3	36906	--	--	--	--	--	--

Method: WATERS Sample Name: ss i Operator:
Run Time: 03/30/00 01:26:32
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1890	Ba4934	Be3130	Ca3179	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	Q-.0001	Q.2024	Q.0253	.0410	Q.0013	.0213	Q.0015
SDev	.0009	.0022	.0007	.0001	.0000	.0004	.0003
%RSD	1025.	1.065	2.902	.1543	1.688	2.135	22.74
#1	Q-.0008	Q.2007	Q.0247	.0410	Q.0013	.0216	Q.0018
#2	Q-.0004	Q.2016	Q.0250	.0409	Q.0013	.0215	.0011
#3	.0010	Q.2048	Q.0261	.0410	Q.0013	.0208	Q.0017
Errors	QC Fail	QC Fail	QC Fail	QC Pass	QC Fail	NOCHECK	QC Fail
Value	.0010	.0400	.0400	.0400	.0010		.0010
Range	20.00	20.00	20.00	20.00	20.00		20.00

Elem	Co2286	Cr2677	Cu3247	Fe2714	K_7664	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0094	.0032	.0046	Q-.0171	-.2277	-.0069	.0104
SDev	.0004	.0005	.0008	.0061	.1360	.0062	.0001
%RSD	4.800	16.52	16.15	35.59	59.75	88.60	.9427
#1	.0091	Q.0027	.0055	Q-.0240	-.3030	-.0128	.0105
#2	.0092	.0037	.0045	Q-.0143	-.3093	-.0075	.0103
#3	.0099	.0033	Q.0040	Q-.0129	-.0706	-.0005	.0104
Errors	QC Pass	QC Pass	QC Pass	QC Fail	NOCHECK	NOCHECK	QC Pass
Value	.0100	.0040	.0050	.0200			.0100
Range	20.00	20.00	20.00	20.00			20.00

Elem	Ni2316	Pb2203	Se1960	2203/1	2203/2	1960/1	1960/2
Units	ppm						
Avge	.0106	.0094	Q.0481	.0076	.0122	.0533	.0371
SDev	.0031	.0014	.0040	.0033	.0029	.0074	.0033
%RSD	28.68	15.36	8.411	43.65	24.17	13.90	8.873
#1	.0117	Q.0078	.0442	.0038	.0150	.0469	.0382
#2	Q.0072	.0106	.0478	.0093	.0125	.0516	.0397
#3	Q.0130	.0098	Q.0523	.0098	.0092	.0614	.0334

Errors	QC Pass	QC Pass	QC Fail	NOCHECK	NOCHECK	NOCHECK	NOCHECK
Value	.0100	.0100	.0400				
Range	20.00	20.00	20.00				
Elem	Sb2068	Sn1899	Tl1908	V_2924	Zn2062		
Units	ppm	ppm	ppm	ppm	ppm		
Avge	.0083	.0028	.0426	.0103	.0109		
SDev	.0025	.0040	.0067	.0003	.0003		
%RSD	29.78	141.8	15.66	2.943	2.270		
#1	.0093	-.0010	Q.0502	.0107	.0111		
#2	.0101	.0025	.0398	.0102	.0109		
#3	Q.0055	.0071	.0377	.0102	.0106		

Errors	QC Pass	NOCHECK	QC Pass	QC Pass	QC Pass		
Value	.0100		.0400	.0100	.0100		
Range	20.00		20.00	20.00	20.00		
IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	36862	--	--	--	--	--	--
SDev	42.88356	--	--	--	--	--	--
%RSD	.1163354	--	--	--	--	--	--
#1	36815	--	--	--	--	--	--
#2	36872	--	--	--	--	--	--
#3	36899	--	--	--	--	--	--

Method: WATERS Sample Name: ss i low Operator:
Run Time: 03/30/00 01:32:46
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1890	Ba4934	Be3130	Ca3179	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0010	.1615	Q-.0045	.0115	.0004	.0057	.0011
SDev	.0003	.0077	.0039	.0000	.0000	.0010	.0001
%RSD	33.31	4.774	85.66	.2552	1.455	17.42	8.247
#1	-.0012	.1622	Q-.0085	.0115	.0004	.0068	.0011
#2	-.0006	.1534	Q-.0042	.0115	.0004	.0056	.0010
#3	-.0013	.1688	Q-.0008	.0114	.0004	.0048	.0012

Errors	NOCHECK	NOCHECK	QC Fail	QC Pass	NOCHECK	NOCHECK	NOCHECK
Value			.0100	.0100			
Range			20.00	20.00			
Elem	Co2286	Cr2677	Cu3247	Fe2714	K_7664	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0028	Q.0005	.0013	-.0236	-.2001	-.0046	.0029
SDev	.0006	.0004	.0004	.0103	.0364	.0010	.0001
%RSD	22.76	84.81	32.77	43.46	18.19	22.23	2.790
#1	.0021	Q.0003	.0017	-.0156	-.2420	-.0040	.0030

#2	Q.0031	Q.0002	.0010	-.0200	-.1819	-.0040	.0028
#3	Q.0033	.0009	.0011	-.0351	-.1763	-.0058	.0029
Errors	QC Pass	QC Fail	NOCHECK	NOCHECK	NOCHECK	NOCHECK	QC Pass
Value	.0025	.0010					.0025
Range	20.00	20.00					20.00
Elem	Ni2316	Pb2203	Se1960	2203/1	2203/2	1960/1	1960/2
Units	ppm						
Avge	Q.0043	.0024	Q.0120	.0006	.0052	.0140	.0075
SDev	.0014	.0031	.0019	.0048	.0006	.0035	.0032
%RSD	31.27	125.6	15.75	741.9	11.50	25.04	42.50
#1	.0028	Q-.0008	Q.0140	-.0043	.0054	.0180	.0053
#2	Q.0046	Q.0053	.0119	.0053	.0046	.0120	.0112
#3	Q.0055	.0028	.0102	.0009	.0058	.0119	.0061
Errors	QC Fail	QC Pass	QC Fail	NOCHECK	NOCHECK	NOCHECK	NOCHECK
Value	.0025	.0025	.0100				
Range	20.00	20.00	20.00				
Elem	Sb2068	Sn1899	Tl1908	V_2924	Zn2062		
Units	ppm	ppm	ppm	ppm	ppm		
Avge	.0006	.0007	Q.0271	Q.0037	.0021		
SDev	.0026	.0074	.0004	.0004	.0009		
%RSD	449.0	1029.	1.497	11.59	44.78		
#1	.0021	-.0023	Q.0267	Q.0033	.0014		
#2	.0020	-.0047	Q.0273	Q.0037	.0032		
#3	-.0024	.0092	Q.0274	Q.0042	.0017		
Errors	NOCHECK	NOCHECK	QC Fail	QC Fail	NOCHECK		
Value			.0100	.0025			
Range			20.00	20.00			
IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	36938	--	--	--	--	--	--
SDev	277.2219	--	--	--	--	--	--
%RSD	.7505060	--	--	--	--	--	--
#1	36844	--	--	--	--	--	--
#2	37250	--	--	--	--	--	--
#3	36720	--	--	--	--	--	--

Method: WATERS Sample Name: ics a Operator:
Run Time: 03/30/00 01:39:01
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1890	Ba4934	Be3130	Ca3179	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	-.0019	50.94	Q-.0195	.0011	.0001	51.18	-.0017
SDev	.0007	.12	.0037	.0000	.0000	.07	.0003
%RSD	36.96	.2320	18.82	3.663	8.791	.1327	16.24

#1	-.0014	50.96	Q-.0237	.0011	.0001	51.26	-.0015
#2	-.0027	51.04	Q-.0172	.0011	.0001	51.15	-.0017
#3	-.0016	50.81	Q-.0175	.0011	.0001	51.13	-.0020
Errors	QC Pass	QC Pass	QC Fail	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0050	50.00	.0050	.0050	.0015	50.00	.0025
Range	300.0	20.00	300.0	300.0	300.0	20.00	300.0
Elem	Co2286	Cr2677	Cu3247	Fe2714	K_7664	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.0003	.0000	.0043	51.13	Q-.1113	53.29	.0041
SDev	.0009	.0007	.0011	.04	.1096	.07	.0001
%RSD	315.8	2476.	26.52	.0864	98.49	.1296	2.234
#1	.0004	.0006	.0055	51.16	-.0001	53.31	.0040
#2	-.0007	-.0007	.0041	51.08	Q-.2192	53.21	.0041
#3	.0012	.0002	.0033	51.15	Q-.1146	53.34	.0042
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Fail	QC Pass	QC Pass
Value	.0050	.0050	.0050	50.00	.0500	50.00	.0050
Range	300.0	300.0	300.0	20.00	300.0	20.00	300.0
Elem	Ni2316	Pb2203	Se1960	2203/1	2203/2	1960/1	1960/2
Units	ppm						
Avge	.0017	.0024	-.0018	.0040	-.0015	-.0014	-.0032
SDev	.0018	.0018	.0018	.0041	.0051	.0034	.0021
%RSD	103.6	74.07	102.2	101.9	335.2	243.8	66.03
#1	.0029	.0043	-.0034	.0086	-.0050	-.0050	-.0008
#2	-.0003	.0007	.0002	.0026	-.0038	.0019	-.0038
#3	.0025	.0022	-.0022	.0008	.0043	-.0011	-.0049
Errors	QC Pass	QC Pass	QC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK
Value	.0050	.0050	.0050				
Range	300.0	300.0	300.0				
Elem	Sb2068	Sn1899	Tl1908	V_2924	Zn2062		
Units	ppm	ppm	ppm	ppm	ppm		
Avge	-.0006	.0036	.0100	.0015	.0025		
SDev	.0040	.0044	.0019	.0002	.0004		
%RSD	632.5	121.3	19.01	12.80	16.70		
#1	.0039	.0041	.0122	.0016	.0028		
#2	-.0037	-.0010	.0085	.0013	.0026		
#3	-.0021	.0077	.0095	.0016	.0020		
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass		
Value	.0050	.0050	.0050	.0050	.0050		
Range	300.0	300.0	300.0	300.0	300.0		

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	36804	--	--	--	--	--	--

SDev	165.0525	--	--	--	--	--	--
%RSD	.4484595	--	--	--	--	--	--
#1	36614	--	--	--	--	--	--
#2	36908	--	--	--	--	--	--
#3	36891	--	--	--	--	--	--

Method: WATERS Sample Name: ics ab Operator:
Run Time: 03/30/00 01:45:16
Comment:
Mode: CONC Corr. Factor: 1

Elem	Ag3280	Al3082	As1890	Ba4934	Be3130	Ca3179	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.3188	52.58	1.062	.3184	.1051	52.17	.3135
SDev	.0011	.16	.001	.0016	.0003	.15	.0013
%RSD	.3610	.2968	.1296	.5143	.2822	.2963	.4238
#1	.3200	52.75	1.063	.3202	.1055	52.34	.3147
#2	.3184	52.53	1.061	.3173	.1049	52.11	.3121
#3	.3178	52.45	1.063	.3175	.1050	52.05	.3137
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.3000	50.00	1.000	.3000	.1000	50.00	.3000
Range	20.00	20.00	20.00	20.00	20.00	20.00	20.00

Elem	Co2286	Cr2677	Cu3247	Fe2714	K_7664	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avge	.3205	.3134	.3357	52.16	Q29.06	54.44	.2176
SDev	.0011	.0015	.0023	.21	.24	.20	.0008
%RSD	.3507	.4935	.6852	.3984	.8381	.3615	.3666
#1	.3216	.3152	.3382	52.40	Q29.11	54.66	.2185
#2	.3194	.3125	.3336	52.02	Q29.27	54.32	.2170
#3	.3206	.3126	.3353	52.05	Q28.79	54.33	.2172
Errors	QC Pass	QC Pass	QC Pass	QC Pass	QC Fail	QC Pass	QC Pass
Value	.3000	.3000	.3000	50.00	20.00	50.00	.2000
Range	20.00	20.00	20.00	20.00	20.00	20.00	20.00

Elem	Ni2316	Pb2203	Se1960	2203/1	2203/2	1960/1	1960/2
Units	ppm						
Avge	.3103	1.102	.5605	1.108	1.089	.5619	.5569
SDev	.0031	.008	.0034	.008	.008	.0025	.0059
%RSD	.9910	.7355	.5978	.7434	.7441	.4419	1.060
#1	.3122	1.105	.5574	1.112	1.091	.5606	.5504
#2	.3067	1.092	.5640	1.098	1.080	.5648	.5620
#3	.3119	1.107	.5599	1.112	1.096	.5604	.5583
Errors	QC Pass	QC Pass	QC Pass	NOCHECK	NOCHECK	NOCHECK	NOCHECK
Value	.3000	1.000	.5000				
Range	20.00	20.00	20.00				

Elem	Sb2068	Sn1899	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm
Avge	Q.1110	Q.1059	1.072	.3112	.3099

SDev	.0018	.0040	.007	.0010	.0019
%RSD	1.607	3.776	.6360	.3292	.6124
#1	Q.1106	Q.1105	1.066	.3118	.3119
#2	Q.1094	Q.1039	1.071	.3117	.3082
#3	Q.1129	Q.1033	1.079	.3100	.3097

Errors	QC Fail	QC Fail	QC Pass	QC Pass	QC Pass
Value	1.000	1.000	1.000	.3000	.3000
Range	20.00	20.00	20.00	20.00	20.00

IntStd	1	2	3	4	5	6	7
Mode	*Counts	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED	NOTUSED
Elem	Y	--	--	--	--	--	--
Wavlen	371.030	--	--	--	--	--	--
Avge	36439	--	--	--	--	--	--
SDev	271.3540	--	--	--	--	--	--
%RSD	.7446802	--	--	--	--	--	--
#1	36308	--	--	--	--	--	--
#2	36751	--	--	--	--	--	--
#3	36258	--	--	--	--	--	--

ACCURA ANALYTICAL LABORATORY, INC.
6017 Financial Drive, Norcross, Georgia, 30071, Phone (770) 449-8800

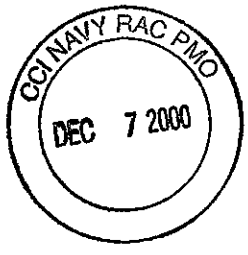
CASE NARRATIVE for Project Number: 25726
Client Project: NAS Cecil Field 103rd Street GW Sampling / 154282 / CTO - 0029
Task Order Manager: Keith Conn

The following items were noted concerning this project:

1. The following samples were received by Accura Analytical Laboratory on 09/29/00 at 0930:

Client I.D.	Laboratory I.D.
029-SMW01-Q3-00-04	AC00424
029-SMW02-Q3-00-04	AC00425
029-SMW03-Q3-00-04	AC00426
029-SMW07-Q3-00-04	AC00427
029-SMW10-Q3-00-04	AC00428
029-SMW11-Q3-00-04	AC00429
029-DUP-Q3-00-04	AC00430
029-EQB-Q3-00-04	AC00431
Trip Blank	AC00432

2. The sample cooler temperature was 2^{0}C.



3. The pH for all VOC samples was noted to be < 2 prior to analysis.

4. The following analysis was performed by a subcontract laboratory:

   PAH by HPLC-SW-846-8310

5. The J values noted for the Metal-Lead, VOC, and FL-PRO analyses indicate estimated values where the compounds are present at concentrations that are less than the quantitation limits, but above the method detection limits.

6. The "B" flags applied to the VOC and FL-PRO results indicate that the analytes were detected in the Method Blank at concentrations above the method detection limit, and the concentrations in the samples were less than ten times the concentration in the Method Blank. These results should be considered estimated due to Method Blank contamination.

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7. The following surrogates were outside the method specified limits:

FL-PRO	FL-PRO
ortho-Terphenyl	Nonatriacontane (C39)
029-SMW01-Q3-00-04	029-SMW01-Q3-00-04
029-SMW02-Q3-00-04	029-SMW02-Q3-00-04
029-SMW03-Q3-00-04	029-SMW03-Q3-00-04
029-SMW07-Q3-00-04	029-SMW07-Q3-00-04
029-SMW10-Q3-00-04	029-SMW10-Q3-00-04
029-SMW11-Q3-00-04	029-SMW11-Q3-00-04
029-DUP-Q3-00-04	029-DUP-Q3-00-04
029-EQB-Q3-00-04	029-EQB-Q3-00-04
Laboratory Control Sample	Method Blank
Laboratory Control Sample Duplicate	Laboratory Control Sample
	Laboratory Control Sample Duplicate

All recoveries were within established in-house limits; therefore the data was accepted.

8. The recoveries for the Laboratory Control Sample and Laboratory Control Sample Duplicate associated with the FL-PRO analysis were outside the client specified limits, but within established in-house limits; therefore the data was accepted.

9. The QC for the following analysis consists of Laboratory Control Sample/Laboratory Control Sample Duplicate due to limited sample volume:

   FL-PRO

   Note that the Laboratory Control Sample/Laboratory Control Sample Duplicate are reported as the Matrix Spike/Matrix Spike Duplicate on the QC table.

Quality Assurance

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PROJECT QUALITY CONTROL RESULTS
AAL PROJECT #25726

		Project Control Rec				Accuracy Limits		Project Control		Precision Limits		Project Control Recoveries		Accuracy Limits		Project Control		Precision Limits	
		MS	MSD	MS	MS	MS/MSD Recoveries		MS/MSD % Deviation		MS/MSD Deviation		LCS	LCS	LCS Recoveries		Field Dup % Deviation		Field Dup Deviation	
Method No[1]	Analyte / Component	Water		Soil[2]		Water	Soil[2]	Water	Soil[2]	Water	Soil[2]	Water	Soil[2]	Water	Soil[2]	Water	Soil[2]	Water	Soil[2]
	VOLATILES BY GC/MS					%	%			%	%			%	%			%	%
8260B	1,1,1,2-Tetrachloroethane	98	103			60-140	20-150	5%		<30	<50	102		62-108	62-108			<50	<75
8260B	1,1,1-Trichloroethane	95	98			60-140	20-150	2%		<30	<50	100		65-135	65-135			<50	<75
8260B	1,1,2,2-Tetrachloroethane	96	102			60-140	20-150	6%		<30	<50	101		64-135	64-135			<50	<75
8260B	1,1,2-Trichloroethane	95	103			60-140	20-150	8%		<30	<50	102		65-135	65-135			<50	<75
8260B	1,1-Dichloroethane	96	99			60-140	20-150	3%		<30	<50	99		62-135	62-135			<50	<75
8260B	1,1-Dichloroethene	94	97			60-140	20-150	4%		<30	<50	100		65-135	65-135			<50	<75
8260B	1,2,3-Trichlorobenzene	106	114			60-140	20-150	7%		<30	<50	105		65-147	65-147			<50	<75
8260B	1,2,3-Trichloropropane	78	101			60-140	20-150	26%		<30	<50	84		65-135	65-135			<50	<75
8260B	1,2,4-Trichlorobenzene	106	112			60-140	20-150	5%		<30	<50	105		65-145	65-145			<50	<75
8260B	1,2,4-Trimethylbenzene	103	104			60-140	20-150	0%		<30	<50	102		65-135	65-135			<50	<75
8260B	1,2-Dichloroethane	94	100			60-140	20-150	6%		<30	<50	100		58-137	58-137			<50	<75
8260B	1,2-Dichlorobenzene	103	105			60-140	20-150	2%		<30	<50	104		65-135	65-135			<50	<75
8260B	1,2-Dibromo-3-chloropropane	96	103			60-140	20-150	7%		<30	<50	99		49-135	49-135			<50	<75
8260B	1,2-Dichloropropane	99	103			60-140	20-150	4%		<30	<50	101		60-135	60-135			<50	<75
8260B	1,2-Ethylene Dibromide	94	101			60-140	20-150	7%		<30	<50	102		65-135	65-135			<50	<75
8260B	1,3,5-Trimethylbenzene	103	101			60-140	20-150	2%		<30	<50	102		62-135	62-135			<50	<75
8260B	1,3-Dichlorobenzene	103	103			60-140	20-150	0%		<30	<50	102		65-135	65-135			<50	<75
8260B	1,3-Dichloropropane	95	101			60-140	20-150	6%		<30	<50	103		65-135	65-135			<50	<75
8260B	1,4-Dichlorobenzene	101	102			60-140	20-150	1%		30	50	101		65-135	65-135			<50	<75
8260B	2,2-Dichloropropane	95	98			60-140	20-150	2%		<30	<50	92		65-135	65-135			<50	75
8260B	2-Chlorotoluene	100	93			60-140	20-150	8%		<30	50	96		63-135	63-135			<50	75
8260B	4-Chlorotoluene	104	104			60-140	20-150	0%		<30	<50	104		64-135	64-135			<50	75
8260B	Benzene	97	99			60-140	20-150	2%		<30	<50	100		65-135	65-135			<50	<75
8260B	Bromobenzene	101	102			60-140	20-150	1%		<30	<50	104		65-135	65-135			<50	<75
8260B	Bromochloromethane	94	98			60-140	20-150	4%		<30	<50	100		63-135	63-135			<50	<75
8260B	Bromodichloromethane	92	95			60-140	20-150	4%		<30	<50	98		65-135	65-135			<50	<75
8260B	Bromoform	94	99			60-140	20-150	6%		<30	<50	99		65-135	65-135			<50	<75
8260B	Bromomethane	95	95			60-140	20-150	0%		<30	<50	95		62-135	62-135			<50	<75
8260B	Carbon Tetrachloride	96	100			60-140	20-150	4%		<30	<50	94		52-135	52-135			<50	<75
8260B	Chlorobenzene	96	99			60-140	20-150	3%		<30	<50	102		65-135	65-135			<50	<75
8260B	Chloroethane	99	102			60-140	20-150	3%		<30	<50	106		55-135	55-135			<50	<75
8260B	Chloroform	97	100			60-140	20-150	3%		<30	<50	102		64-135	64-135			<50	<75
8260B	Chloromethane	86	91			60-140	20-150	6%		<30	<50	90		65-135	65-135			<50	<75
8260B	Cis-1,2-Dichloroethene	96	98			60-140	20-150	2%		<30	<50	101		65-135	65-135			<50	<75
8260B	Cis-1,3-Dichloropropene	98	103			60-140	20-150	5%		<30	<50	103		64-135	64-135			<50	<75
8260B	Dibromochloromethane	92	99			60-140	20-150	6%		<30	<50	100		63-135	63-135			<50	<75
8260B	Dibromomethane	96	101			60-140	20-150	6%		<30	<50	101		59-137	59-137			<50	<75
8260B	Dichlorodifluoromethane	85	91			60-140	20-150	6%		<30	<50	91		65-135	65-135			<50	<75
8260B	Ethylbenzene	100	101			60-140	20-150	1%		<30	<50	101		65-135	65-135			<50	<75
8260B	Hexachlorobutadiene	109	109			60-140	20-150	0%		<30	<50	105		65-135	65-135			<50	<75
8260B	Isopropylbenzene	101	101			60-140	20-150	0%		<30	<50	100		65-135	65-135			<50	<75
8260B	total-Xylene	100	100			60-140	20-150	0%		<30	<50	102		65-135	65-135			<50	<75
8260B	Methylene Chloride	92	96			60-140	20-150	4%		<30	<50	99		65-135	65-135			<50	<75
8260B	n-Butylbenzene	105	104			60-140	20-150	1%		<30	<50	102		65-135	65-135			<50	<75
8260B	n-Propylbenzene	100	107			60-140	20-150	6%		<30	<50	97		65-135	65-135			<50	<75

Notes
1) SW-846 Methods unless otherwise noted
2) Includes sediments, waste, solids

NS = Not Specified
NA = Not Applicable

PROJECT QUALITY CONTROL RESULTS
AAL PROJECT #25726

		Project Control Rec				Accuracy Limits		Project Control		Precision Limits		Project Control Recoveries		Accuracy Limits		Project Control		Precision Limits	
		MS	MSD	MS	MS	MS/MSD Recoveries		MS/MSD % Deviation		MS/MSD Deviation		LCS	LCS	LCS Recoveries		Field Dup % Deviation		Field Dup Deviation	
Method No[1]	Analyte / Component	Water		Soil[2]		Water	Soil[2]	Water	Soil[2]	Water	Soil[2]	Water	Soil[2]	Water	Soil[2]	Water	Soil[2]	Water	Soil[2]
8260B	Naphthalene	91	102			60-140	20-150	12%		<30	<50	100		65-135	65-135			<50	<75
8260B	p-Isopropyltoluene	103	103			60-140	20-150	1%		<30	<50	93		65-135	65-135			<50	<75
8260B	Sec-Butylbenzene	104	103			60-140	20-150	0%		<30	<50	103		65-135	65-135			<50	<75
8260B	Styrene	98	103			60-140	20-150	5%		<30	<50	103		65-135	65-135			<50	<75
8260B	Trichloroethylene	97	100			60-140	20-150	4%		<30	<50	99		61-135	61-135			<50	<75
8260B	Tert-Butylbenzene	104	104			60-140	20-150	0%		<30	<50	103		65-135	65-135			<50	<75
8260B	Tetrachloroethylene	94	97			60-140	20-150	3%		<30	<50	97		61-135	61-135			<50	<75
8260B	Toluene	97	98			60-140	20-150	1%		<30	<50	99		64-135	64-135			<50	<75
8260B	Trans-1,2-Dichloroethene	95	97			60-140	20-150	2%		<30	<50	99		65-135	65-135			<50	<75
8260B	Trans-1,3-Dichloropropene	92	97			60-140	20-150	5%		<30	<50	95		56-135	56-135			<50	<75
8260B	Trichlorofluoromethane	96	100			60-140	20-150	4%		<30	<50	100		57-135	57-135			<50	<75
8260B	Vinyl Chloride	93	95			60-140	20-150	3%		<30	<50	98		36-144	36-144			<50	<75
8260B	Toluene-d8 (surr)	98	102			75-125	65-135	4%		NA	NA	100		NA	NA			NA	NA
8260B	4-Bromofluorobenzene (surr)	99	101			75-125	65-135	2%		NA	NA	103		NA	NA			NA	NA
8260B	1,2-Dichloroethane-d4 (surr)	93	98			62-139	52-149	5%		NA	NA	98		NA	NA			NA	NA
	METALS BY TRACE ICP					%	%			%	%			%	%			%	%
6010B	Lead	102	101			50-150	30-170	1%	#DIV/0!	<30	<50	100		79-116	79-116			<50	<75
	PETROLEUM HYDROCARBONS					%	%			%	%			%	%			%	%
TL-PRO	TPH	64	59			75-125	30-170	8%	#DIV/0!	< 30	< 50	64		75-125	70-130			< 50	< 75

Notes
1) SW-846 Methods unless otherwise noted
2) Includes sediments waste solids

NS Not Specified
NA Not Applicable

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FL Certification # E87429 NC Certification # 483 SC Certification # 98015 USACE-MRD Approved

LABORATORY REPORT

Accura Sample ID #: AC00424 **Accura Project #: 25726**

Client: CH2M HILL - CCI Date Sampled: 09/28/2000

Client Contact: KEITH CONN Date Received: 09/29/2000

Client Project Number: 154282 / CTO - 0029 Date Reported: 10/25/2000

Client Project Name: NAS CECIL FIELD 103rd STREET GW SAMPLING Sample Matrix: WATER

Client Sample ID: 029-SMW01-Q3-00-04

ANALYSIS: Metals - Lead Method Ref: 3010A/6010B

Date Ext/Dig/Prep: 10/06/2000 Date Analyzed: 10/09/2000 Result Units: mg/L

Analyte Name	Analytical Results	Reported Detection Limits
Lead	<RDL	0.010

ANALYSIS: PAH's by HPLC Method Ref: 8310

Date Ext/Dig/Prep: 10/03/2000 Date Analyzed: 10/08/2000 Result Units: ug/L

Analyte Name	Analytical Results	Reported Detection Limits
1-Methylnapthalene	<RDL	1
2-Methylnapthalene	<RDL	1
Acenaphthene	<RDL	0.2
Acenaphthylene	<RDL	0.2
Anthracene	<RDL	0.2
Benzo(a)anthracene	<RDL	0.05
Benzo(a)pyrene	<RDL	0.1
Benzo(b)fluoranthene	<RDL	0.19
Benzo(g,h,i)perylene	<RDL	0.2
Benzo(k)fluoranthene	<RDL	0.18
Chrysene	<RDL	0.16
Dibenzo(a,h)anthracene	<RDL	0.2
Fluoranthene	<RDL	0.2
Fluorene	<RDL	0.2
Indeno(1,2,3-cd)pyrene	<RDL	0.4
Naphthalene	<RDL	1.04
Phenanthrene	<RDL	0.2
Pyrene	<RDL	0.2

ANALYSIS: Petroleum Range Organics (PRO) Method Ref: FL-PRO

Date Ext/Dig/Prep: 10/05/2000 Date Analyzed: 10/06/2000 Result Units: mg/L

Analyte Name	Analytical Results	Reported Detection Limits
Petroleum Range Organics (PRO)	0.44JB	1.0

ANALYSIS: VOC's Navy (25 ml purge) Method Ref: 8260B

Date Ext/Dig/Prep: 10/03/2000 Date Analyzed: 10/03/2000 Result Units: ug/L

Analyte Name	Analytical Results	Reported Detection Limits
1,1,1,2-Tetrachloroethane	<RDL	2.5
1,1,1-Trichloroethane	<RDL	4
1,1,2,2-Tetrachloroethane	<RDL	2
1,1,2-Trichloroethane	<RDL	5
1,1-Dichloroethane	<RDL	2
1,1-Dichloroethene	<RDL	6
1,2,3-Trichlorobenzene	<RDL	1.5
1,2,3-Trichloropropane	<RDL	16
1,2,4-Trichlorobenzene	<RDL	2
1,2,4-Trimethylbenzene	<RDL	6.5
1,2-Dibromo-3-chloropropane	<RDL	13
1,2-Dichlorobenzene	<RDL	1.5
1,2-Dichloroethane	<RDL	3
1,2-Dichloropropane	<RDL	2
1,2-Ethylene Dibromide	<RDL	3
1,3,5-Trimethylbenzene	<RDL	2.5
1,3-Dichlorobenzene	<RDL	6
1,3-Dichloropropane	<RDL	2
1,4-Dichlorobenzene	<RDL	1.5
2,2-Dichloropropane	<RDL	17.5
2-Chlorotoluene	<RDL	2
4-Chlorotoluene	<RDL	3
Benzene	<RDL	2
Bromobenzene	<RDL	1.5
Bromochloromethane	<RDL	2
Bromodichloromethane	<RDL	4
Bromoform	<RDL	6
Bromomethane	<RDL	5.5
Carbon tetrachloride	<RDL	10.5
Chlorobenzene	<RDL	2
Chloroethane	<RDL	5
Chloroform	<RDL	1.5
Chloromethane	<RDL	6.5
cis-1,2-Dichloroethene	<RDL	6
cis-1,3-Dichloropropene	<RDL	5
Dibromochloromethane	<RDL	2.5
Dibromomethane	<RDL	12
Dichlorodifluoromethane	<RDL	5
Ethylbenzene	<RDL	3
Hexachlorobutadiene	<RDL	5.5
Isopropylbenzene	<RDL	2.5
Methylene chloride	<RDL	1.5
n-Butylbenzene	<RDL	5.5
n-Propylbenzene	<RDL	2
Naphthalene	0.89 JB	2
p-Isopropyltoluene	<RDL	6

Sec-Butylbenzene	<RDL	6.5
Styrene	<RDL	2
Tert-Butylbenzene	<RDL	7
Tetrachloroethylene	<RDL	7
Toluene	<RDL	5.5
Total Xylenes	<RDL	5
trans-1,2-Dichloroethene	<RDL	3
trans-1,3-Dichloropropene	<RDL	5
Trichloroethylene	<RDL	5
Trichlorofluoromethane	<RDL	4
Vinyl chloride	<RDL	5.5

ANALYSIS: X PAH Surrogates (Liquid) Method Ref: 8310

Date Ext/Dig/Prep: 10/03/2000 Date Analyzed: 10/08/2000 Result Units: %

Analyte Name	Analytical Results	Reported Detection Limits
p-terphenyl d14 (Range 20-140)	56	

ANALYSIS: X PRO Sample Surrogates (Water) Method Ref: FL-PRO

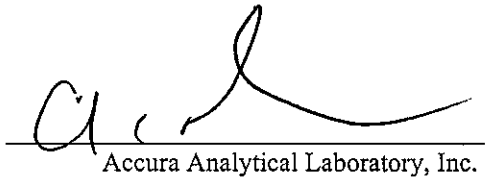
Date Ext/Dig/Prep: 10/05/2000 Date Analyzed: 10/06/2000 Result Units: %

Analyte Name	Analytical Results	Reported Detection Limits
C(39) (Range 42-193)	20	
o-Terphenyl (Range 82-142)	32	

ANALYSIS: X VOC Sample Surrogates-Waters Method Ref: 5030B/8260B

Date Ext/Dig/Prep: 10/03/2000 Date Analyzed: 10/03/2000 Result Units: %

Analyte Name	Analytical Results	Reported Detection Limits
1,2-Dichloroethane-d4 (78-128)	91	
4-Bromofluorobenzene (86-112)	99	
Toluene-d8 (84-108)	94	



Accura Analytical Laboratory, Inc.

ACCURA ANALYTICAL LABORATORY, INC.

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FL Certification # E87429 NC Certification # 483 SC Certification # 98015 USACE-MRD Approved

LABORATORY REPORT

Accura Sample ID #: AC00425 **Accura Project #: 25726**

Client: CH2M HILL - CCI Date Sampled: 09/28/2000

Client Contact: KEITH CONN Date Received: 09/29/2000

Client Project Number: 154282 / CTO - 0029 Date Reported: 10/25/2000

Client Project Name: NAS CECIL FIELD 103rd STREET GW SAMPLING Sample Matrix: WATER

Client Sample ID: 029-SMW02-Q3-00-04

ANALYSIS: Metals - Lead Method Ref: 3010A/6010B

Date Ext/Dig/Prep: 10/06/2000 Date Analyzed: 10/09/2000 Result Units: mg/L

Analyte Name	Analytical Results	Reported Detection Limits
Lead	0.032	0.010

ANALYSIS: PAH's by HPLC Method Ref: 8310

Date Ext/Dig/Prep: 10/03/2000 Date Analyzed: 10/08/2000 Result Units: ug/L

Analyte Name	Analytical Results	Reported Detection Limits
1-Methylnapthalene	<RDL	1
2-Methylnapthalene	<RDL	1
Acenaphthene	<RDL	0.2
Acenaphthylene	<RDL	0.2
Anthracene	<RDL	0.2
Benzo(a)anthracene	<RDL	0.05
Benzo(a)pyrene	<RDL	0.1
Benzo(b)fluoranthene	<RDL	0.19
Benzo(g,h,i)perylene	<RDL	0.2
Benzo(k)fluoranthene	<RDL	0.18
Chrysene	<RDL	0.16
Dibenzo(a,h)anthracene	<RDL	0.2
Fluoranthene	<RDL	0.2
Fluorene	<RDL	0.2
Indeno(1,2,3-cd)pyrene	<RDL	0.4
Naphthalene	<RDL	1.04
Phenanthrene	<RDL	0.2
Pyrene	<RDL	0.2

ANALYSIS: Petroleum Range Organics (PRO) Method Ref: FL-PRO

Date Ext/Dig/Prep: 10/05/2000 Date Analyzed: 10/06/2000 Result Units: mg/L

Analyte Name	Analytical Results	Reported Detection Limits
Petroleum Range Organics (PRO)	0.66JB	1.0

ANALYSIS: VOC's Navy (25 ml purge) Method Ref: 8260B

Date Ext/Dig/Prep: 10/03/2000 Date Analyzed: 10/03/2000 Result Units: ug/L

Analyte Name	Analytical Results	Reported Detection Limits
1,1,1,2-Tetrachloroethane	<RDL	2.5
1,1,1-Trichloroethane	<RDL	4
1,1,2,2-Tetrachloroethane	<RDL	2
1,1,2-Trichloroethane	<RDL	5
1,1-Dichloroethane	<RDL	2
1,1-Dichloroethene	<RDL	6
1,2,3-Trichlorobenzene	<RDL	1.5
1,2,3-Trichloropropane	<RDL	16
1,2,4-Trichlorobenzene	<RDL	2
1,2,4-Trimethylbenzene	<RDL	6.5
1,2-Dibromo-3-chloropropane	<RDL	13
1,2-Dichlorobenzene	<RDL	1.5
1,2-Dichloroethane	<RDL	3
1,2-Dichloropropane	<RDL	2
1,2-Ethylene Dibromide	<RDL	3
1,3,5-Trimethylbenzene	<RDL	2.5
1,3-Dichlorobenzene	<RDL	6
1,3-Dichloropropane	<RDL	2
1,4-Dichlorobenzene	<RDL	1.5
2,2-Dichloropropane	<RDL	17.5
2-Chlorotoluene	<RDL	2
4-Chlorotoluene	<RDL	3
Benzene	<RDL	2
Bromobenzene	<RDL	1.5
Bromochloromethane	<RDL	2
Bromodichloromethane	<RDL	4
Bromoform	<RDL	6
Bromomethane	<RDL	5.5
Carbon tetrachloride	<RDL	10.5
Chlorobenzene	<RDL	2
Chloroethane	<RDL	5
Chloroform	<RDL	1.5
Chloromethane	<RDL	6.5
cis-1,2-Dichloroethene	<RDL	6
cis-1,3-Dichloropropene	<RDL	5
Dibromochloromethane	<RDL	2.5
Dibromomethane	<RDL	12
Dichlorodifluoromethane	<RDL	5
Ethylbenzene	<RDL	3
Hexachlorobutadiene	<RDL	5.5
Isopropylbenzene	<RDL	2.5
Methylene chloride	<RDL	1.5
n-Butylbenzene	<RDL	5.5
n-Propylbenzene	<RDL	2
Naphthalene	0.69 JB	2
p-Isopropyltoluene	<RDL	6

Sec-Butylbenzene	<RDL	6.5
Styrene	<RDL	2
Tert-Butylbenzene	<RDL	7
Tetrachloroethylene	<RDL	7
Toluene	<RDL	5.5
Total Xylenes	<RDL	5
trans-1,2-Dichloroethene	<RDL	3
trans-1,3-Dichloropropene	<RDL	5
Trichloroethylene	<RDL	5
Trichlorofluoromethane	<RDL	4
Vinyl chloride	<RDL	5.5

ANALYSIS: X PAH Surrogates (Liquid) Method Ref: 8310

Date Ext/Dig/Prep: 10/03/2000 Date Analyzed: 10/08/2000 Result Units: %

Analyte Name	Analytical Results	Reported Detection Limits
p-terphenyl d14 (Range 20-140)	35	

ANALYSIS: X PRO Sample Surrogates (Water) Method Ref: FL-PRO

Date Ext/Dig/Prep: 10/05/2000 Date Analyzed: 10/06/2000 Result Units: %

Analyte Name	Analytical Results	Reported Detection Limits
C(39) (Range 42-193)	13	
o-Terphenyl (Range 82-142)	57	

ANALYSIS: X VOC Sample Surrogates-Waters Method Ref: 5030B/8260B

Date Ext/Dig/Prep: 10/03/2000 Date Analyzed: 10/03/2000 Result Units: %

Analyte Name	Analytical Results	Reported Detection Limits
1,2-Dichloroethane-d4 (78-128)	90	
4-Bromofluorobenzene (86-112)	98	
Toluene-d8 (84-108)	95	

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LABORATORY REPORT

Accura Sample ID #: AC00426 **Accura Project #: 25726**

Client: CH2M HILL - CCI Date Sampled: 09/28/2000

Client Contact: KEITH CONN Date Received: 09/29/2000

Client Project Number: 154282 / CTO - 0029 Date Reported: 10/25/2000

Client Project Name: NAS CECIL FIELD 103rd STREET GW SAMPLING Sample Matrix: WATER

Client Sample ID: 029-SMW03-Q3-00-04

ANALYSIS: Metals - Lead Method Ref: 3010A/6010B

Date Ext/Dig/Prep: 10/06/2000 Date Analyzed: 10/09/2000 Result Units: mg/L

Analyte Name	Analytical Results	Reported Detection Limits
Lead	0.051	0.010

ANALYSIS: PAH's by HPLC Method Ref: 8310

Date Ext/Dig/Prep: 10/03/2000 Date Analyzed: 10/08/2000 Result Units: ug/L

Analyte Name	Analytical Results	Reported Detection Limits
1-Methylnapthalene	<RDL	1
2-Methylnapthalene	<RDL	1
Acenaphthene	<RDL	0.2
Acenaphthylene	<RDL	0.2
Anthracene	<RDL	0.2
Benzo(a)anthracene	<RDL	0.05
Benzo(a)pyrene	<RDL	0.11
Benzo(b)fluoranthene	<RDL	0.19
Benzo(g,h,i)perylene	<RDL	0.2
Benzo(k)fluoranthene	<RDL	0.18
Chrysene	<RDL	0.16
Dibenzo(a,h)anthracene	<RDL	0.2
Fluoranthene	<RDL	0.2
Fluorene	<RDL	0.2
Indeno(1,2,3-cd)pyrene	<RDL	0.4
Naphthalene	<RDL	1.05
Phenanthrene	<RDL	0.2
Pyrene	<RDL	0.2

ANALYSIS: Petroleum Range Organics (PRO) Method Ref: FL-PRO

Date Ext/Dig/Prep: 10/05/2000 Date Analyzed: 10/06/2000 Result Units: mg/L

Analyte Name	Analytical Results	Reported Detection Limits
Petroleum Range Organics (PRO)	0.75JB	1.0

ANALYSIS: VOC's Navy (25 ml purge) Method Ref: 8260B

Date Ext/Dig/Prep: 10/03/2000 Date Analyzed: 10/03/2000 Result Units: ug/L

Analyte Name	Analytical Results	Reported Detection Limits
1,1,1,2-Tetrachloroethane	<RDL	2.5
1,1,1-Trichloroethane	<RDL	4
1,1,2,2-Tetrachloroethane	<RDL	2
1,1,2-Trichloroethane	<RDL	5
1,1-Dichloroethane	<RDL	2
1,1-Dichloroethene	<RDL	6
1,2,3-Trichlorobenzene	<RDL	1.5
1,2,3-Trichloropropane	<RDL	16
1,2,4-Trichlorobenzene	<RDL	2
1,2,4-Trimethylbenzene	<RDL	6.5
1,2-Dibromo-3-chloropropane	<RDL	13
1,2-Dichlorobenzene	<RDL	1.5
1,2-Dichloroethane	<RDL	3
1,2-Dichloropropane	<RDL	2
1,2-Ethylene Dibromide	<RDL	3
1,3,5-Trimethylbenzene	<RDL	2.5
1,3-Dichlorobenzene	<RDL	6
1,3-Dichloropropane	<RDL	2
1,4-Dichlorobenzene	<RDL	1.5
2,2-Dichloropropane	<RDL	17.5
2-Chlorotoluene	<RDL	2
4-Chlorotoluene	<RDL	3
Benzene	<RDL	2
Bromobenzene	<RDL	1.5
Bromochloromethane	<RDL	2
Bromodichloromethane	<RDL	4
Bromoform	<RDL	6
Bromomethane	<RDL	5.5
Carbon tetrachloride	<RDL	10.5
Chlorobenzene	<RDL	2
Chloroethane	<RDL	5
Chloroform	<RDL	1.5
Chloromethane	<RDL	6.5
cis-1,2-Dichloroethene	<RDL	6
cis-1,3-Dichloropropene	<RDL	5
Dibromochloromethane	<RDL	2.5
Dibromomethane	<RDL	12
Dichlorodifluoromethane	<RDL	5
Ethylbenzene	<RDL	3
Hexachlorobutadiene	<RDL	5.5
Isopropylbenzene	<RDL	2.5
Methylene chloride	<RDL	1.5
n-Butylbenzene	<RDL	5.5
n-Propylbenzene	<RDL	2
Naphthalene	0.89 JB	2
p-Isopropyltoluene	<RDL	6

Sec-Butylbenzene	<RDL	6.5
Styrene	<RDL	2
Tert-Butylbenzene	<RDL	7
Tetrachloroethylene	<RDL	7
Toluene	<RDL	5.5
Total Xylenes	<RDL	5
trans-1,2-Dichloroethene	<RDL	3
trans-1,3-Dichloropropene	<RDL	5
Trichloroethylene	<RDL	5
Trichlorofluoromethane	<RDL	4
Vinyl chloride	<RDL	5.5

ANALYSIS: X PAH Surrogates (Liquid) Method Ref: 8310

Date Ext/Dig/Prep: 10/03/2000 Date Analyzed: 10/08/2000 Result Units: %

Analyte Name	Analytical Results	Reported Detection Limits
p-terphenyl d14 (Range 20-140)	59	

ANALYSIS: X PRO Sample Surrogates (Water) Method Ref: FL-PRO

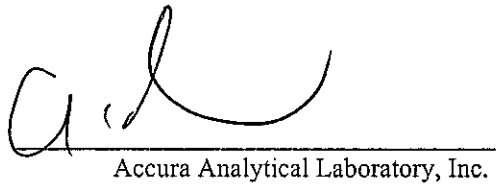
Date Ext/Dig/Prep: 10/05/2000 Date Analyzed: 10/06/2000 Result Units: %

Analyte Name	Analytical Results	Reported Detection Limits
C(39) (Range 42-193)	28	
o-Terphenyl (Range 82-142)	33	

ANALYSIS: X VOC Sample Surrogates-Waters Method Ref: 5030B/8260B

Date Ext/Dig/Prep: 10/03/2000 Date Analyzed: 10/03/2000 Result Units: %

Analyte Name	Analytical Results	Reported Detection Limits
1,2-Dichloroethane-d4 (78-128)	91	
4-Bromofluorobenzene (86-112)	96	
Toluene-d8 (84-108)	92	



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LABORATORY REPORT

Accura Sample ID #: AC00427 **Accura Project #: 25726**

Client: CH2M HILL - CCI Date Sampled: 09/28/2000

Client Contact: KEITH CONN Date Received: 09/29/2000

Client Project Number: 154282 / CTO - 0029 Date Reported: 10/25/2000

Client Project Name: NAS CECIL FIELD 103rd STREET GW SAMPLING Sample Matrix: WATER

Client Sample ID: 029-SMW07-Q3-00-04

ANALYSIS: Metals - Lead Method Ref: 3010A/6010B

Date Ext/Dig/Prep: 10/06/2000 Date Analyzed: 10/10/2000 Result Units: mg/L

Analyte Name	Analytical Results	Reported Detection Limits
Lead	0.086	0.010

ANALYSIS: PAH's by HPLC Method Ref: 8310

Date Ext/Dig/Prep: 10/03/2000 Date Analyzed: 10/08/2000 Result Units: ug/L

Analyte Name	Analytical Results	Reported Detection Limits
1-Methylnapthalene	<RDL	1
2-Methylnapthalene	<RDL	1
Acenaphthene	<RDL	0.2
Acenaphthylene	<RDL	0.2
Anthracene	<RDL	0.2
Benzo(a)anthracene	<RDL	0.05
Benzo(a)pyrene	<RDL	0.14
Benzo(b)fluoranthene	<RDL	0.2
Benzo(g,h,i)perylene	<RDL	0.2
Benzo(k)fluoranthene	<RDL	0.2
Chrysene	<RDL	0.2
Dibenzo(a,h)anthracene	<RDL	0.2
Fluoranthene	<RDL	0.2
Fluorene	<RDL	0.2
Indeno(1,2,3-cd)pyrene	<RDL	0.4
Naphthalene	<RDL	1.43
Phenanthrene	<RDL	0.2
Pyrene	<RDL	0.2

ANALYSIS: Petroleum Range Organics (PRO) Method Ref: FL-PRO

Date Ext/Dig/Prep: 10/05/2000 Date Analyzed: 10/06/2000 Result Units: mg/L

Analyte Name	Analytical Results	Reported Detection Limits
Petroleum Range Organics (PRO)	0.73JB	1.0

ANALYSIS: VOC's Navy (25 ml purge) Method Ref: 8260B

Date Ext/Dig/Prep: 10/03/2000 Date Analyzed: 10/03/2000 Result Units: ug/L

Analyte Name	Analytical Results	Reported Detection Limits
1,1,1,2-Tetrachloroethane	<RDL	2.5
1,1,1-Trichloroethane	<RDL	4
1,1,2,2-Tetrachloroethane	<RDL	2
1,1,2-Trichloroethane	<RDL	5
1,1-Dichloroethane	<RDL	2
1,1-Dichloroethene	<RDL	6
1,2,3-Trichlorobenzene	<RDL	1.5
1,2,3-Trichloropropane	<RDL	16
1,2,4-Trichlorobenzene	<RDL	2
1,2,4-Trimethylbenzene	<RDL	6.5
1,2-Dibromo-3-chloropropane	<RDL	13
1,2-Dichlorobenzene	<RDL	1.5
1,2-Dichloroethane	<RDL	3
1,2-Dichloropropane	<RDL	2
1,2-Ethylene Dibromide	<RDL	3
1,3,5-Trimethylbenzene	<RDL	2.5
1,3-Dichlorobenzene	<RDL	6
1,3-Dichloropropane	<RDL	2
1,4-Dichlorobenzene	<RDL	1.5
2,2-Dichloropropane	<RDL	17.5
2-Chlorotoluene	<RDL	2
4-Chlorotoluene	<RDL	3
Benzene	<RDL	2
Bromobenzene	<RDL	1.5
Bromochloromethane	<RDL	2
Bromodichloromethane	<RDL	4
Bromoform	<RDL	6
Bromomethane	<RDL	5.5
Carbon tetrachloride	<RDL	10.5
Chlorobenzene	<RDL	2
Chloroethane	<RDL	5
Chloroform	<RDL	1.5
Chloromethane	<RDL	6.5
cis-1,2-Dichloroethene	<RDL	6
cis-1,3-Dichloropropene	<RDL	5
Dibromochloromethane	<RDL	2.5
Dibromomethane	<RDL	12
Dichlorodifluoromethane	<RDL	5
Ethylbenzene	<RDL	3
Hexachlorobutadiene	<RDL	5.5
Isopropylbenzene	<RDL	2.5
Methylene chloride	<RDL	1.5
n-Butylbenzene	<RDL	5.5
n-Propylbenzene	<RDL	2
Naphthalene	0.72 JB	2
p-Isopropyltoluene	<RDL	6

Sec-Butylbenzene	<RDL	6.5
Styrene	<RDL	2
Tert-Butylbenzene	<RDL	7
Tetrachloroethylene	<RDL	7
Toluene	<RDL	5.5
Total Xylenes	<RDL	5
trans-1,2-Dichloroethene	<RDL	3
trans-1,3-Dichloropropene	<RDL	5
Trichloroethylene	<RDL	5
Trichlorofluoromethane	<RDL	4
Vinyl chloride	<RDL	5.5

ANALYSIS: X PAH Surrogates (Liquid) Method Ref: 8310

Date Ext/Dig/Prep: 10/03/2000 Date Analyzed: 10/08/2000 Result Units: %

Analyte Name	Analytical Results	Reported Detection Limits
p-terphenyl d14 (Range 20-140)	45	

ANALYSIS: X PRO Sample Surrogates (Water) Method Ref: FL-PRO

Date Ext/Dig/Prep: 10/05/2000 Date Analyzed: 10/06/2000 Result Units: %

Analyte Name	Analytical Results	Reported Detection Limits
C(39) (Range 42-193)	17	
o-Terphenyl (Range 82-142)	31	

ANALYSIS: X VOC Sample Surrogates-Waters Method Ref: 5030B/8260B

Date Ext/Dig/Prep: 10/03/2000 Date Analyzed: 10/03/2000 Result Units: %

Analyte Name	Analytical Results	Reported Detection Limits
1,2-Dichloroethane-d4 (78-128)	100	
4-Bromofluorobenzene (86-112)	96	
Toluene-d8 (84-108)	91	

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LABORATORY REPORT

Accura Sample ID #: AC00428 **Accura Project #: 25726**

Client: CH2M HILL - CCI Date Sampled: 09/28/2000

Client Contact: KEITH CONN Date Received: 09/29/2000

Client Project Number: 154282 / CTO - 0029 Date Reported: 10/25/2000

Client Project Name: NAS CECIL FIELD 103rd STREET GW SAMPLING Sample Matrix: WATER

Client Sample ID: 029-SMW10-Q3-00-04

ANALYSIS: Metals - Lead Method Ref: 3010A/6010B

Date Ext/Dig/Prep: 10/06/2000 Date Analyzed: 10/10/2000 Result Units: mg/L

Analyte Name	Analytical Results	Reported Detection Limits
Lead	0.24	0.010

ANALYSIS: PAH's by HPLC Method Ref: 8310

Date Ext/Dig/Prep: 10/03/2000 Date Analyzed: 10/08/2000 Result Units: ug/L

Analyte Name	Analytical Results	Reported Detection Limits
1-Methylnapthalene	<RDL	1
2-Methylnapthalene	<RDL	1
Acenaphthene	<RDL	0.2
Acenaphthylene	<RDL	0.2
Anthracene	<RDL	0.2
Benzo(a)anthracene	<RDL	0.05
Benzo(a)pyrene	<RDL	0.11
Benzo(b)fluoranthene	<RDL	0.2
Benzo(g,h,i)perylene	<RDL	0.2
Benzo(k)fluoranthene	<RDL	0.19
Chrysene	<RDL	0.17
Dibenzo(a,h)anthracene	<RDL	0.2
Fluoranthene	<RDL	0.2
Fluorene	<RDL	0.2
Indeno(1,2,3-cd)pyrene	<RDL	0.4
Naphthalene	<RDL	1.1
Phenanthrene	<RDL	0.2
Pyrene	<RDL	0.2

ANALYSIS: Petroleum Range Organics (PRO) Method Ref: FL-PRO

Date Ext/Dig/Prep: 10/05/2000 Date Analyzed: 10/07/2000 Result Units: mg/L

Analyte Name	Analytical Results	Reported Detection Limits
Petroleum Range Organics (PRO)	0.62JB	1.0

ANALYSIS: VOC's Navy (25 ml purge) Method Ref: 8260B

Date Ext/Dig/Prep: 10/03/2000 Date Analyzed: 10/03/2000 Result Units: ug/L

Analyte Name	Analytical Results	Reported Detection Limits
1,1,1,2-Tetrachloroethane	<RDL	2.5
1,1,1-Trichloroethane	<RDL	4
1,1,2,2-Tetrachloroethane	<RDL	2
1,1,2-Trichloroethane	<RDL	5
1,1-Dichloroethane	<RDL	2
1,1-Dichloroethene	<RDL	6
1,2,3-Trichlorobenzene	<RDL	1.5
1,2,3-Trichloropropane	<RDL	16
1,2,4-Trichlorobenzene	<RDL	2
1,2,4-Trimethylbenzene	<RDL	6.5
1,2-Dibromo-3-chloropropane	<RDL	13
1,2-Dichlorobenzene	<RDL	1.5
1,2-Dichloroethane	<RDL	3
1,2-Dichloropropane	<RDL	2
1,2-Ethylene Dibromide	<RDL	3
1,3,5-Trimethylbenzene	<RDL	2.5
1,3-Dichlorobenzene	<RDL	6
1,3-Dichloropropane	<RDL	2
1,4-Dichlorobenzene	<RDL	1.5
2,2-Dichloropropane	<RDL	17.5
2-Chlorotoluene	<RDL	2
4-Chlorotoluene	<RDL	3
Benzene	<RDL	2
Bromobenzene	<RDL	1.5
Bromochloromethane	<RDL	2
Bromodichloromethane	<RDL	4
Bromoform	<RDL	6
Bromomethane	<RDL	5.5
Carbon tetrachloride	<RDL	10.5
Chlorobenzene	<RDL	2
Chloroethane	<RDL	5
Chloroform	<RDL	1.5
Chloromethane	<RDL	6.5
cis-1,2-Dichloroethene	<RDL	6
cis-1,3-Dichloropropene	<RDL	5
Dibromochloromethane	<RDL	2.5
Dibromomethane	<RDL	12
Dichlorodifluoromethane	<RDL	5
Ethylbenzene	<RDL	3
Hexachlorobutadiene	<RDL	5.5
Isopropylbenzene	<RDL	2.5
Methylene chloride	<RDL	1.5
n-Butylbenzene	<RDL	5.5
n-Propylbenzene	<RDL	2
Naphthalene	0.63 JB	2
p-Isopropyltoluene	<RDL	6

Sec-Butylbenzene	<RDL	6.5
Styrene	<RDL	2
Tert-Butylbenzene	<RDL	7
Tetrachloroethylene	<RDL	7
Toluene	<RDL	5.5
Total Xylenes	<RDL	5
trans-1,2-Dichloroethene	<RDL	3
trans-1,3-Dichloropropene	<RDL	5
Trichloroethylene	<RDL	5
Trichlorofluoromethane	<RDL	4
Vinyl chloride	<RDL	5.5

ANALYSIS: X PAH Surrogates (Liquid) Method Ref: 8310

Date Ext/Dig/Prep: 10/03/2000 Date Analyzed: 10/08/2000 Result Units: %

Analyte Name	Analytical Results	Reported Detection Limits
p-terphenyl d14 (Range 20-140)	61	

ANALYSIS: X PRO Sample Surrogates (Water) Method Ref: FL-PRO

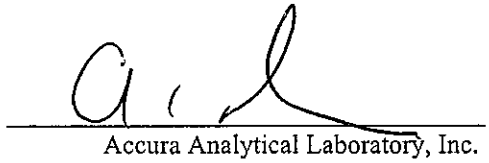
Date Ext/Dig/Prep: 10/05/2000 Date Analyzed: 10/07/2000 Result Units: %

Analyte Name	Analytical Results	Reported Detection Limits
C(39) (Range 42-193)	28	
o-Terphenyl (Range 82-142)	27	

ANALYSIS: X VOC Sample Surrogates-Waters Method Ref: 5030B/8260B

Date Ext/Dig/Prep: 10/03/2000 Date Analyzed: 10/03/2000 Result Units: %

Analyte Name	Analytical Results	Reported Detection Limits
1,2-Dichloroethane-d4 (78-128)	97	
4-Bromofluorobenzene (86-112)	99	
Toluene-d8 (84-108)	92	



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LABORATORY REPORT

Accura Sample ID #: AC00429 **Accura Project #: 25726**

Client: CH2M HILL - CCI Date Sampled: 09/28/2000

Client Contact: KEITH CONN Date Received: 09/29/2000

Client Project Number: 154282 / CTO - 0029 Date Reported: 10/25/2000

Client Project Name: NAS CECIL FIELD 103rd STREET GW SAMPLING Sample Matrix: WATER

Client Sample ID: 029-SMW11-Q3-00-04

ANALYSIS: Metals - Lead Method Ref: 3010A/6010B

Date Ext/Dig/Prep: 10/06/2000 Date Analyzed: 10/10/2000 Result Units: mg/L

Analyte Name	Analytical Results	Reported Detection Limits
Lead	0.051	0.010

ANALYSIS: PAH's by HPLC Method Ref: 8310

Date Ext/Dig/Prep: 10/03/2000 Date Analyzed: 10/08/2000 Result Units: ug/L

Analyte Name	Analytical Results	Reported Detection Limits
1-Methylnapthalene	<RDL	1
2-Methylnapthalene	<RDL	1
Acenaphthene	<RDL	0.2
Acenaphthylene	<RDL	0.2
Anthracene	<RDL	0.2
Benzo(a)anthracene	<RDL	0.05
Benzo(a)pyrene	<RDL	0.11
Benzo(b)fluoranthene	<RDL	0.19
Benzo(g,h,i)perylene	<RDL	0.2
Benzo(k)fluoranthene	<RDL	0.18
Chrysene	<RDL	0.16
Dibenzo(a,h)anthracene	<RDL	0.2
Fluoranthene	<RDL	0.2
Fluorene	<RDL	0.2
Indeno(1,2,3-cd)pyrene	<RDL	0.4
Naphthalene	2.2	1.05
Phenanthrene	<RDL	0.2
Pyrene	<RDL	0.2

ANALYSIS: Petroleum Range Organics (PRO) Method Ref: FL-PRO

Date Ext/Dig/Prep: 10/05/2000 Date Analyzed: 10/07/2000 Result Units: mg/L

Analyte Name	Analytical Results	Reported Detection Limits
Petroleum Range Organics (PRO)	7.8	1.0

ANALYSIS: VOC's Navy (25 ml purge) Method Ref: 8260B

Date Ext/Dig/Prep: 10/03/2000 Date Analyzed: 10/03/2000 Result Units: ug/L

Analyte Name	Analytical Results	Reported Detection Limits
1,1,1,2-Tetrachloroethane	<RDL	2.5
1,1,1-Trichloroethane	<RDL	4
1,1,2,2-Tetrachloroethane	<RDL	2
1,1,2-Trichloroethane	<RDL	5
1,1-Dichloroethane	<RDL	2
1,1-Dichloroethene	<RDL	6
1,2,3-Trichlorobenzene	<RDL	1.5
1,2,3-Trichloropropane	<RDL	16
1,2,4-Trichlorobenzene	<RDL	2
1,2,4-Trimethylbenzene	12	6.5
1,2-Dibromo-3-chloropropane	<RDL	13
1,2-Dichlorobenzene	<RDL	1.5
1,2-Dichloroethane	<RDL	3
1,2-Dichloropropane	<RDL	2
1,2-Ethylene Dibromide	<RDL	3
1,3,5-Trimethylbenzene	4.1	2.5
1,3-Dichlorobenzene	<RDL	6
1,3-Dichloropropane	<RDL	2
1,4-Dichlorobenzene	<RDL	1.5
2,2-Dichloropropane	<RDL	17.5
2-Chlorotoluene	<RDL	2
4-Chlorotoluene	<RDL	3
Benzene	<RDL	2
Bromobenzene	<RDL	1.5
Bromochloromethane	<RDL	2
Bromodichloromethane	<RDL	4
Bromoform	<RDL	6
Bromomethane	<RDL	5.5
Carbon tetrachloride	<RDL	10.5
Chlorobenzene	<RDL	2
Chloroethane	<RDL	5
Chloroform	<RDL	1.5
Chloromethane	<RDL	6.5
cis-1,2-Dichloroethene	<RDL	6
cis-1,3-Dichloropropene	<RDL	5
Dibromochloromethane	<RDL	2.5
Dibromomethane	<RDL	12
Dichlorodifluoromethane	<RDL	5
Ethylbenzene	2.9 J	3
Hexachlorobutadiene	<RDL	5.5
Isopropylbenzene	1.2 J	2.5
Methylene chloride	<RDL	1.5
n-Butylbenzene	<RDL	5.5
n-Propylbenzene	1.2 J	2
Naphthalene	3.7 B	2
p-Isopropyltoluene	<RDL	6

Sec-Butylbenzene	1.2 J	6.5
Styrene	<RDL	2
Tert-Butylbenzene	<RDL	7
Tetrachloroethylene	<RDL	7
Toluene	<RDL	5.5
Total Xylenes	12	5
trans-1,2-Dichloroethene	<RDL	3
trans-1,3-Dichloropropene	<RDL	5
Trichloroethylene	<RDL	5
Trichlorofluoromethane	<RDL	4
Vinyl chloride	<RDL	5.5

ANALYSIS: X PAH Surrogates (Liquid) Method Ref: 8310

Date Ext/Dig/Prep: 10/03/2000 Date Analyzed: 10/08/2000 Result Units: %

Analyte Name	Analytical Results	Reported Detection Limits
p-terphenyl d14 (Range 20-140)	56	

ANALYSIS: X PRO Sample Surrogates (Water) Method Ref: FL-PRO

Date Ext/Dig/Prep: 10/05/2000 Date Analyzed: 10/07/2000 Result Units: %

Analyte Name	Analytical Results	Reported Detection Limits
C(39) (Range 42-193)	21	
o-Terphenyl (Range 82-142)	52	

ANALYSIS: X VOC Sample Surrogates-Waters Method Ref: 5030B/8260B

Date Ext/Dig/Prep: 10/03/2000 Date Analyzed: 10/03/2000 Result Units: %

Analyte Name	Analytical Results	Reported Detection Limits
1,2-Dichloroethane-d4 (78-128)	95	
4-Bromofluorobenzene (86-112)	100	
Toluene-d8 (84-108)	94	

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LABORATORY REPORT

Accura Sample ID #: AC00430 **Accura Project #: 25726**

Client: CH2M HILL - CCI
Date Sampled: 09/28/2000

Client Contact: KEITH CONN
Date Received: 09/29/2000

Client Project Number: 154282 / CTO - 0029
Date Reported: 10/25/2000

Client Project Name: NAS CECIL FIELD 103rd STREET GW SAMPLING
Sample Matrix: WATER

Client Sample ID: 029-DUP-Q3-00-04

ANALYSIS: Metals - Lead Method Ref: 3010A/6010B

Date Ext/Dig/Prep: 10/06/2000 Date Analyzed: 10/10/2000 Result Units: mg/L

Analyte Name	Analytical Results	Reported Detection Limits
Lead	0.079	0.010

ANALYSIS: PAH's by HPLC Method Ref: 8310

Date Ext/Dig/Prep: 10/03/2000 Date Analyzed: 10/08/2000 Result Units: ug/L

Analyte Name	Analytical Results	Reported Detection Limits
1-Methylnapthalene	<RDL	1
2-Methylnapthalene	<RDL	1
Acenaphthene	<RDL	0.2
Acenaphthylene	<RDL	0.2
Anthracene	<RDL	0.2
Benzo(a)anthracene	<RDL	0.05
Benzo(a)pyrene	<RDL	0.1
Benzo(b)fluoranthene	<RDL	0.19
Benzo(g,h,i)perylene	<RDL	0.2
Benzo(k)fluoranthene	<RDL	0.18
Chrysene	<RDL	0.16
Dibenzo(a,h)anthracene	<RDL	0.2
Fluoranthene	<RDL	0.2
Fluorene	<RDL	0.2
Indeno(1,2,3-cd)pyrene	<RDL	0.4
Naphthalene	<RDL	1.04
Phenanthrene	<RDL	0.2
Pyrene	<RDL	0.2

ANALYSIS: Petroleum Range Organics (PRO) Method Ref: FL-PRO

Date Ext/Dig/Prep: 10/05/2000 Date Analyzed: 10/07/2000 Result Units: mg/L

Analyte Name	Analytical Results	Reported Detection Limits
Petroleum Range Organics (PRO)	0.49JB	1.0

ANALYSIS: VOC's Navy (25 ml purge) Method Ref: 8260B

Date Ext/Dig/Prep: 10/03/2000 Date Analyzed: 10/03/2000 Result Units: ug/L

Analyte Name	Analytical Results	Reported Detection Limits
1,1,1,2-Tetrachloroethane	<RDL	2.5
1,1,1-Trichloroethane	<RDL	4
1,1,2,2-Tetrachloroethane	<RDL	2
1,1,2-Trichloroethane	<RDL	5
1,1-Dichloroethane	<RDL	2
1,1-Dichloroethene	<RDL	6
1,2,3-Trichlorobenzene	<RDL	1.5
1,2,3-Trichloropropane	<RDL	16
1,2,4-Trichlorobenzene	<RDL	2
1,2,4-Trimethylbenzene	<RDL	6.5
1,2-Dibromo-3-chloropropane	<RDL	13
1,2-Dichlorobenzene	<RDL	1.5
1,2-Dichloroethane	<RDL	3
1,2-Dichloropropane	<RDL	2
1,2-Ethylene Dibromide	<RDL	3
1,3,5-Trimethylbenzene	<RDL	2.5
1,3-Dichlorobenzene	<RDL	6
1,3-Dichloropropane	<RDL	2
1,4-Dichlorobenzene	<RDL	1.5
2,2-Dichloropropane	<RDL	17.5
2-Chlorotoluene	<RDL	2
4-Chlorotoluene	<RDL	3
Benzene	<RDL	2
Bromobenzene	<RDL	1.5
Bromochloromethane	<RDL	2
Bromodichloromethane	<RDL	4
Bromoform	<RDL	6
Bromomethane	<RDL	5.5
Carbon tetrachloride	<RDL	10.5
Chlorobenzene	<RDL	2
Chloroethane	<RDL	5
Chloroform	<RDL	1.5
Chloromethane	<RDL	6.5
cis-1,2-Dichloroethene	<RDL	6
cis-1,3-Dichloropropene	<RDL	5
Dibromochloromethane	<RDL	2.5
Dibromomethane	<RDL	12
Dichlorodifluoromethane	<RDL	5
Ethylbenzene	<RDL	3
Hexachlorobutadiene	<RDL	5.5
Isopropylbenzene	<RDL	2.5
Methylene chloride	<RDL	1.5
n-Butylbenzene	<RDL	5.5
n-Propylbenzene	<RDL	2
Naphthalene	0.86 JB	2
p-Isopropyltoluene	<RDL	6

Sec-Butylbenzene	<RDL	6.5
Styrene	<RDL	2
Tert-Butylbenzene	<RDL	7
Tetrachloroethylene	<RDL	7
Toluene	<RDL	5.5
Total Xylenes	<RDL	5
trans-1,2-Dichloroethene	<RDL	3
trans-1,3-Dichloropropene	<RDL	5
Trichloroethylene	<RDL	5
Trichlorofluoromethane	<RDL	4
Vinyl chloride	<RDL	5.5

ANALYSIS: X PAH Surrogates (Liquid) Method Ref: 8310

Date Ext/Dig/Prep: 10/03/2000 Date Analyzed: 10/08/2000 Result Units: %

Analyte Name	Analytical Results	Reported Detection Limits
p-terphenyl d14 (Range 20-140)	47	

ANALYSIS: X PRO Sample Surrogates (Water) Method Ref: FL-PRO

Date Ext/Dig/Prep: 10/05/2000 Date Analyzed: 10/07/2000 Result Units: %

Analyte Name	Analytical Results	Reported Detection Limits
C(39) (Range 42-193)	12	
o-Terphenyl (Range 82-142)	31	

ANALYSIS: X VOC Sample Surrogates-Waters Method Ref: 5030B/8260B

Date Ext/Dig/Prep: 10/03/2000 Date Analyzed: 10/03/2000 Result Units: %

Analyte Name	Analytical Results	Reported Detection Limits
1,2-Dichloroethane-d4 (78-128)	94	
4-Bromofluorobenzene (86-112)	97	
Toluene-d8 (84-108)	92	

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LABORATORY REPORT

Accura Sample ID #: AC00431 **Accura Project #: 25726**

Client: CH2M HILL - CCI Date Sampled: 09/28/2000

Client Contact: KEITH CONN Date Received: 09/29/2000

Client Project Number: 154282 / CTO - 0029 Date Reported: 11/01/2000

Client Project Name: NAS CECIL FIELD 103rd STREET GW SAMPLING Sample Matrix: WATER

Client Sample ID: 029-EQB-Q3-00-04

ANALYSIS: Metals - Lead Method Ref: 3010A/6010B

Date Ext/Dig/Prep: 10/06/2000 Date Analyzed: 10/10/2000 Result Units: mg/L

Analyte Name	Analytical Results	Reported Detection Limits
Lead	0.0057J	0.010

ANALYSIS: PAH's by HPLC Method Ref: 8310

Date Ext/Dig/Prep: 10/03/2000 Date Analyzed: 10/08/2000 Result Units: ug/L

Analyte Name	Analytical Results	Reported Detection Limits
1-Methylnapthalene	<RDL	1
2-Methylnapthalene	<RDL	1
Acenaphthene	<RDL	0.2
Acenaphthylene	<RDL	0.4
Anthracene	<RDL	0.2
Benzo(a)anthracene	<RDL	0.05
Benzo(a)pyrene	<RDL	0.1
Benzo(b)fluoranthene	<RDL	0.18
Benzo(g,h,i)perylene	<RDL	0.2
Benzo(k)fluoranthene	<RDL	0.17
Chrysene	<RDL	0.15
Dibenzo(a,h)anthracene	<RDL	0.2
Fluoranthene	<RDL	0.2
Fluorene	<RDL	0.2
Indeno(1,2,3-cd)pyrene	<RDL	0.4
Naphthalene	<RDL	1.02
Phenanthrene	<RDL	0.2
Pyrene	<RDL	0.2

ANALYSIS: Petroleum Range Organics (PRO) Method Ref: FL-PRO

Date Ext/Dig/Prep: 10/05/2000 Date Analyzed: 10/07/2000 Result Units: mg/L

Analyte Name	Analytical Results	Reported Detection Limits
Petroleum Range Organics (PRO)	0.39JB	1.0

ANALYSIS: VOC's Navy (25 ml purge) Method Ref: 8260B

Date Ext/Dig/Prep: 10/03/2000 Date Analyzed: 10/03/2000 Result Units: ug/L

Analyte Name	Analytical Results	Reported Detection Limits
1,1,1,2-Tetrachloroethane	<RDL	2.5
1,1,1-Trichloroethane	<RDL	4
1,1,2,2-Tetrachloroethane	<RDL	2
1,1,2-Trichloroethane	<RDL	5
1,1-Dichloroethane	<RDL	2
1,1-Dichloroethene	<RDL	6
1,2,3-Trichlorobenzene	<RDL	1.5
1,2,3-Trichloropropane	<RDL	16
1,2,4-Trichlorobenzene	<RDL	2
1,2,4-Trimethylbenzene	<RDL	6.5
1,2-Dibromo-3-chloropropane	<RDL	13
1,2-Dichlorobenzene	<RDL	1.5
1,2-Dichloroethane	<RDL	3
1,2-Dichloropropane	<RDL	2
1,2-Ethylene Dibromide	<RDL	3
1,3,5-Trimethylbenzene	<RDL	2.5
1,3-Dichlorobenzene	<RDL	6
1,3-Dichloropropane	<RDL	2
1,4-Dichlorobenzene	<RDL	1.5
2,2-Dichloropropane	<RDL	17.5
2-Chlorotoluene	<RDL	2
4-Chlorotoluene	<RDL	3
Benzene	<RDL	2
Bromobenzene	<RDL	1.5
Bromochloromethane	<RDL	2
Bromodichloromethane	<RDL	4
Bromoform	<RDL	6
Bromomethane	<RDL	5.5
Carbon tetrachloride	<RDL	10.5
Chlorobenzene	<RDL	2
Chloroethane	<RDL	5
Chloroform	<RDL	1.5
Chloromethane	0.51 J	6.5
cis-1,2-Dichloroethene	<RDL	6
cis-1,3-Dichloropropene	<RDL	5
Dibromochloromethane	<RDL	2.5
Dibromomethane	<RDL	12
Dichlorodifluoromethane	<RDL	5
Ethylbenzene	<RDL	3
Hexachlorobutadiene	<RDL	5.5
Isopropylbenzene	<RDL	2.5
Methylene chloride	<RDL	1.5
n-Butylbenzene	<RDL	5.5
n-Propylbenzene	<RDL	2
Naphthalene	0.73 JB	2
p-Isopropyltoluene	<RDL	6

Sec-Butylbenzene	<RDL	6.5
Styrene	<RDL	2
Tert-Butylbenzene	<RDL	7
Tetrachloroethylene	<RDL	7
Toluene	<RDL	5.5
Total Xylenes	<RDL	5
trans-1,2-Dichloroethene	<RDL	3
trans-1,3-Dichloropropene	<RDL	5
Trichloroethylene	<RDL	5
Trichlorofluoromethane	<RDL	4
Vinyl chloride	<RDL	5.5

ANALYSIS: X_PAH Surrogates (Liquid) Method Ref: 8310

Date Ext/Dig/Prep: 10/03/2000 Date Analyzed: 10/08/2000 Result Units: %

Analyte Name	Analytical Results	Reported Detection Limits
p-terphenyl d14 (Range 20-140)	80	

ANALYSIS: X_PRO Sample Surrogates (Water) Method Ref: FL-PRO

Date Ext/Dig/Prep: 10/05/2000 Date Analyzed: 10/07/2000 Result Units: %

Analyte Name	Analytical Results	Reported Detection Limits
C(39) (Range 42-193)	18	
o-Terphenyl (Range 82-142)	77	

ANALYSIS: X_VOC Sample Surrogates-Waters Method Ref: 5030B/8260B

Date Ext/Dig/Prep: 10/03/2000 Date Analyzed: 10/03/2000 Result Units: %

Analyte Name	Analytical Results	Reported Detection Limits
1,2-Dichloroethane-d4 (78-128)	90	
4-Bromofluorobenzene (86-112)	98	
Toluene-d8 (84-108)	95	

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LABORATORY REPORT

Accura Sample ID #: AC00432 **Accura Project #: 25726**

Client: CH2M HILL - CCI Date Sampled: 09/28/2000

Client Contact: KEITH CONN Date Received: 09/29/2000

Client Project Number: 154282 / CTO - 0029 Date Reported: 10/25/2000

Client Project Name: NAS CECIL FIELD 103rd STREET GW SAMPLING Sample Matrix: WATER

Client Sample ID: TRIP BLANK

ANALYSIS: VOC's Navy (25 ml purge) Method Ref: 8260B

Date Ext/Dig/Prep: 10/03/2000 Date Analyzed: 10/03/2000 Result Units: ug/L

Analyte Name	Analytical Results	Reported Detection Limits
1,1,1,2-Tetrachloroethane	<RDL	2.5
1,1,1-Trichloroethane	<RDL	4
1,1,2,2-Tetrachloroethane	<RDL	2
1,1,2-Trichloroethane	<RDL	5
1,1-Dichloroethane	<RDL	2
1,1-Dichloroethene	<RDL	6
1,2,3-Trichlorobenzene	<RDL	1.5
1,2,3-Trichloropropane	<RDL	16
1,2,4-Trichlorobenzene	<RDL	2
1,2,4-Trimethylbenzene	<RDL	6.5
1,2-Dibromo-3-chloropropane	<RDL	13
1,2-Dichlorobenzene	<RDL	1.5
1,2-Dichloroethane	<RDL	3
1,2-Dichloropropane	<RDL	2
1,2-Ethylene Dibromide	<RDL	3
1,3,5-Trimethylbenzene	<RDL	2.5
1,3-Dichlorobenzene	<RDL	6
1,3-Dichloropropane	<RDL	2
1,4-Dichlorobenzene	<RDL	1.5
2,2-Dichloropropane	<RDL	17.5
2-Chlorotoluene	<RDL	2
4-Chlorotoluene	<RDL	3
Benzene	<RDL	2
Bromobenzene	<RDL	1.5
Bromochloromethane	<RDL	2
Bromodichloromethane	<RDL	4
Bromoform	<RDL	6
Bromomethane	<RDL	5.5
Carbon tetrachloride	<RDL	10.5
Chlorobenzene	<RDL	2
Chloroethane	<RDL	5
Chloroform	<RDL	1.5

Chloromethane	<RDL	6.5
cis-1,2-Dichloroethene	<RDL	6
cis-1,3-Dichloropropene	<RDL	5
Dibromochloromethane	<RDL	2.5
Dibromomethane	<RDL	12
Dichlorodifluoromethane	<RDL	5
Ethylbenzene	<RDL	3
Hexachlorobutadiene	<RDL	5.5
Isopropylbenzene	<RDL	2.5
Methylene chloride	<RDL	1.5
n-Butylbenzene	<RDL	5.5
n-Propylbenzene	<RDL	2
Naphthalene	0.82 JB	2
p-Isopropyltoluene	<RDL	6
Sec-Butylbenzene	<RDL	6.5
Styrene	<RDL	2
Tert-Butylbenzene	<RDL	7
Tetrachloroethylene	<RDL	7
Toluene	0.91 J	5.5
Total Xylenes	<RDL	5
trans-1,2-Dichloroethene	<RDL	3
trans-1,3-Dichloropropene	<RDL	5
Trichloroethylene	<RDL	5
Trichlorofluoromethane	<RDL	4
Vinyl chloride	<RDL	5.5

ANALYSIS: X VOC Sample Surrogates-Waters Method Ref: 5030B/8260B

Date Ext/Dig/Prep: 10/03/2000 Date Analyzed: 10/03/2000 Result Units: %

Analyte Name	Analytical Results	Reported Detection Limits
1,2-Dichloroethane-d4 (78-128)	85	
4-Bromofluorobenzene (86-112)	96	
Toluene-d8 (84-108)	92	

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LABORATORY REPORT

Accura Sample ID #: AC00433 **Accura Project #: 25726**

Client: CH2M HILL - CCI Date Sampled: 09/29/2000

Client Contact: KEITH CONN Date Received: 09/29/2000

Client Project Number: 154282 / CTO - 0029 Date Reported: 10/25/2000

Client Project Name: NAS CECIL FIELD 103rd STREET GW SAMPLING Sample Matrix: WATER

Client Sample ID: METHOD BLANK

ANALYSIS: Metals - Lead Method Ref: 3010A/6010B

Date Ext/Dig/Prep: 10/06/2000 Date Analyzed: 10/09/2000 Result Units: mg/L

Analyte Name	Analytical Results	Reported Detection Limits
Lead	<RDL	0.010

ANALYSIS: PAH's by HPLC Method Ref: 8310

Date Ext/Dig/Prep: 10/03/2000 Date Analyzed: 10/08/2000 Result Units: ug/L

Analyte Name	Analytical Results	Reported Detection Limits
1-Methylnapthalene	<RDL	1.00
2-Methylnapthalene	<RDL	1.00
Acenaphthene	<RDL	0.20
Acenaphthylene	<RDL	0.20
Anthracene	<RDL	0.20
Benzo(a)anthracene	<RDL	0.05
Benzo(a)pyrene	<RDL	0.10
Benzo(b)fluoranthene	<RDL	0.18
Benzo(g,h,i)perylene	<RDL	0.20
Benzo(k)fluoranthene	<RDL	0.17
Chrysene	<RDL	0.15
Dibenzo(a,h)anthracene	<RDL	0.20
Fluoranthene	<RDL	0.20
Fluorene	<RDL	0.20
Indeno(1,2,3-cd)pyrene	<RDL	0.40
Naphthalene	<RDL	1.00
Phenanthrene	<RDL	0.20
Pyrene	<RDL	0.20

ANALYSIS: Petroleum Range Organics (PRO) Method Ref: FL-PRO

Date Ext/Dig/Prep: 10/05/2000 Date Analyzed: 10/06/2000 Result Units: mg/L

Analyte Name	Analytical Results	Reported Detection Limits
Petroleum Range Organics (PRO)	0.49J	1.0

ANALYSIS: VOC's Navy (25 ml purge) Method Ref: 8260B

Date Ext/Dig/Prep: 10/03/2000 Date Analyzed: 10/03/2000 Result Units: ug/L

Analyte Name	Analytical Results	Reported Detection Limits
1,1,1,2-Tetrachloroethane	<RDL	2.5
1,1,1-Trichloroethane	<RDL	4
1,1,2,2-Tetrachloroethane	<RDL	2
1,1,2-Trichloroethane	<RDL	5
1,1-Dichloroethane	<RDL	2
1,1-Dichloroethene	<RDL	6
1,2,3-Trichlorobenzene	<RDL	1.5
1,2,3-Trichloropropane	<RDL	16
1,2,4-Trichlorobenzene	<RDL	2
1,2,4-Trimethylbenzene	<RDL	6.5
1,2-Dibromo-3-chloropropane	<RDL	13
1,2-Dichlorobenzene	<RDL	1.5
1,2-Dichloroethane	<RDL	3
1,2-Dichloropropane	<RDL	2
1,2-Ethylene Dibromide	<RDL	3
1,3,5-Trimethylbenzene	<RDL	2.5
1,3-Dichlorobenzene	<RDL	6
1,3-Dichloropropane	<RDL	2
1,4-Dichlorobenzene	<RDL	1.5
2,2-Dichloropropane	<RDL	17.5
2-Chlorotoluene	<RDL	2
4-Chlorotoluene	<RDL	3
Benzene	<RDL	2
Bromobenzene	<RDL	1.5
Bromochloromethane	<RDL	2
Bromodichloromethane	<RDL	4
Bromoform	<RDL	6
Bromomethane	<RDL	5.5
Carbon tetrachloride	<RDL	10.5
Chlorobenzene	<RDL	2
Chloroethane	<RDL	5
Chloroform	<RDL	1.5
Chloromethane	<RDL	6.5
cis-1,2-Dichloroethene	<RDL	6
cis-1,3-Dichloropropene	<RDL	5
Dibromochloromethane	<RDL	2.5
Dibromomethane	<RDL	12
Dichlorodifluoromethane	<RDL	5
Ethylbenzene	<RDL	3
Hexachlorobutadiene	<RDL	5.5
Isopropylbenzene	<RDL	2.5
Methylene chloride	<RDL	1.5
n-Butylbenzene	<RDL	5.5
n-Propylbenzene	<RDL	2
Naphthalene	0.81 J	2
p-Isopropyltoluene	<RDL	6

Client Sample ID: METHOD BLANK AALSample ID #: AC00433 Accura Project #: 25726

Sec-Butylbenzene	<RDL	6.5
Styrene	<RDL	2
Tert-Butylbenzene	<RDL	7
Tetrachloroethylene	<RDL	7
Toluene	<RDL	5.5
Total Xylenes	<RDL	5
trans-1,2-Dichloroethene	<RDL	3
trans-1,3-Dichloropropene	<RDL	5
Trichloroethylene	<RDL	5
Trichlorofluoromethane	<RDL	4
Vinyl chloride	<RDL	5.5

ANALYSIS: X PAH Surrogates (Liquid) Method Ref: 8310

Date Ext/Dig/Prep: 10/03/2000 Date Analyzed: 10/08/2000 Result Units: %

Analyte Name	Analytical Results	Reported Detection Limits
p-terphenyl d14 (Range 20-140)	68	

ANALYSIS: X PRO QC Surrogates (Water) Method Ref: FL-PRO

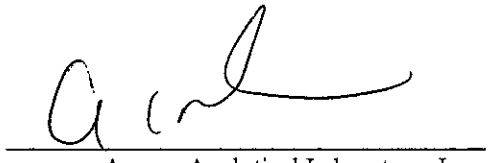
Date Ext/Dig/Prep: 10/05/2000 Date Analyzed: 10/06/2000 Result Units: %

Analyte Name	Analytical Results	Reported Detection Limits
C(39) (Range 42-193)	14	
o-Terphenyl (Range 82-142)	85	

ANALYSIS: X VOC QC Surrogates-Waters Method Ref: 5030B/8260B

Date Ext/Dig/Prep: 10/03/2000 Date Analyzed: 10/03/2000 Result Units: %

Analyte Name	Analytical Results	Reported Detection Limits
1,2-Dichloroethane-d4 (78-114)	82	
4-Bromofluorobenzene (85-111)	97	
Toluene-d8 (88-106)	96	



Accura Analytical Laboratory, Inc.

AR # # 25726, RDS/2°C

CH2M Hill Constructors, Inc.
115 Perimeter Center Place, Suite 700
Atlanta GA 30346-1278
Tel No (770) 604-9182 , Fax No (770) 604-9282

CHAIN-OF-CUSTODY RECORD

COC NUMBER: **154282-04**

PROJECT NAME	PROJECT NUMBER	LAB NAME AND CONTACT	FAX AND MAIL REPORTS/EDD TO: RECIPIENT 1 (Name and Company)	RECIPIENT 1 (Address, Tel No , and Fax No):
N.A.S. Cecil Field 103rd Street	154282	Accura Analytical Laboratory, Inc.	Keith Conn / J.A Jones Env. Services	6219 Authority Ave. Building 1 Jacksonville, FL 32222 (904) 7774812 FAX: (904) 7774262
PROJECT PHASE/SITE/TASK	CTO OR DO NUMBER	LAB PO NUMBER:	FAX AND MAIL REPORTS/EDD TO: RECIPIENT 2 (Name and Company)	RECIPIENT 2 (Address, Tel No , and Fax No):
103rd Street Quarterly GW Sampling Event	0029	1760	Jeff Wilmoth / CH2M Hill Constuctors, Inc.	115 Perimeter Center Place, N.E. Suite 700 Atlanta, GA 30346 (770)604-9182 Ext.561 FAX:604-9282
PROJECT CONTACT	PROJECT TEL NO AND FAX NO	LAB TEL NO AND FAX NO:	FAX AND MAIL REPORTS/EDD TO:: RECIPIENT 3 (Name and Company)	RECIPIENT 3 (Address, Tel No , and Fax No)
Keith Conn	Ph:(904)777-4812 Fax:(904) 777-4262	Ph: 770-449-8800 Fax: 770-449-5477		

ANALYSES REQUIRED (Include Method Numbers)

ITEM	SAMPLE IDENTIFIER	SAMPLE DESCRIPTION/LOCATION	MATRIX (see codes on back)	DATE COLLECTED	TIME COLLECTED	DATA PKG LEVEL (see codes on back)	TAT (calendar days)	Volatiles by 8021B	PAHs by 8310	Lead by 239.2	TRPH by FL-PRO							SAMPLE TYPE (see codes on back)	COMMENTS/ SCREENING READINGS	LAB ID AC
1	029-SMW01-Q3-00-04	CEF-103-SMW-01	W	09/28/00	10:05	III/C	14	4 ~~2~~	2	2	2							Grab	MS / MSD	00424
2	029-SMW02-Q3-00-04	CEF-103-SMW-02	W	09/28/00	14:05	III/C	14	2	1	1	1							Grab		00425
3	029-SMW03-Q3-00-04	CEF-103-SMW-03	W	09/28/00	10:45	III/C	14	2	1	1	1							Grab		00426
4	029-SMW07-Q3-00-04	CEF-103-SMW-07	W	09/28/00	14:40	III/C	14	2	1	1	1							Grab		00427
5	029-SMW10-Q3-00-04	CEF-103-SMW-10	W	09/28/00	15:20	III/C	14	2	1	1	1							Grab		00428
6	029-SMW11-Q3-00-04	CEF-103-SMW-11	W	09/28/00	11:40	III/C	14	2	1	1	1							Grab		00429
7	029-DUP-Q3-00-04	Duplicate	W			III/C	14	2	1	1	1							Grab		00430
8	029-EQB-Q3-00-04	Equipment Blank	W	09/28/00	12:50	III/C	14	2	1	1	1							Grab		00431
9	Temp Blank	Temp Blank	W	09/28/00		III/C	14					3						Grab	Prepared In Field	—
10	Trip Blank	Trip Blank	W	09/28/00		III/C	14					2 ~~1~~						Grab	Prepared By Lab	00432

SAMPLER(S) AND COMPANY: (please print)	COURIER AND SHIPPING NUMBER:	SAMPLES TEMPERATURE AND CONDITION UPON RECEIPT:
Randy Dumaop / Keith Conn J.A. Jones Environmental Services	Federal Express TRK # 790368578460, 791861137740, 791861137935.	2°C - GOOD

RELINQUISHED BY	DATE	TIME	RECEIVED BY	DATE	TIME
Printed Name and Signature R.Dumaop [signature]	9/28/00	17:30	Printed Name and Signature Federal Express , R.P. Sumathi →	9/28/00	17:30
Printed Name and Signature Fed Ex	9/29/00	09:30	Printed Name and Signature: R.P. Sumathi	9/29/00	9:30
Printed Name and Signature			Printed Name and Signature:		

TestAmerica
INCORPORATED

CASE NARRATIVE
October 23, 2000

Client: Accura Analytical 2656
6017 Financial Drive
Norcross, GA 30071

Client Project: N/A

Matrix: WATER

Laboratory Project: 209998

Number Samples: 8

Date Received: 9/30/00

Date Collected: 9/28/00

Sample Receipt Notes: Samples were properly preserved and received on 9/30/00 (see 'Sample Non-Conformance Form' for additional sample anomalies). One sample was submitted in duplicate. Analyses were extracted and performed within method required holding times following Test Methods for Evaluating Solid Waste, Physical/Chemical Methods (SW-846). Package was completed as a 'Level IV' with 'TETRATEC' electronic deliverables.

QC Notes:

Polyaromatic Hydrocarbons (PAH's)- SW 8310- BATCH 445

Eight water samples (TAI #'s 00-A139645-52) were extracted and analyzed for PAH's by Method SW846 8310. The extracted method blank was non-detect for target compounds No dilutions were required for the samples. One surrogate was added during the extraction procedure: p-Terphenyl-d14. All surrogate % recoveries (Form 2A) were acceptable Reagent water was analyzed as the matrix spike/matrix spike duplicate. All QC results were acceptable. Blank and initial/continuing calibration data are available in the raw data section. All initial and continuing calibration requirements were met An analysis run log and extraction data are available at the end of the raw data section

pH SW 9040- BATCH 6870

Eight water samples (TAI #'s 00-A139645-52) were analyzed for pH by Method SW846 9040. A duplicate was performed on client sample # SMW-01 (TAI # 00-A139645) yielding an acceptable RPD value. The pH meters used were calibrated to acceptable tolerances within method limits.

TestAmerica
INCORPORATED

As you review this data package, please call me if you require any additional information at # 1-800-765-0980 (ext. 1265).

Thank you.

Sincerely,

Kelly S. Comstock

Kelly S. Comstock
Technical Services
Test America, Inc.

SAMPLE NONCONFORMANCE/COC REVISION FORM

TestAmerica
Nashville Division

Cathy
Acct #: 2656

Date Received: 10/2

Company: Accura 209998

Relinquished by:	Date/Time:	Received by:	Date/Time
C.A	10/2 1111		
Relinquished by:	Date/Time:	Received by:	Date/Time:
Relinquished by:	Date/Time:	Received by:	Date/Time:

PROBLEM(S):

FOC/TOC?	METALS LIST?
TPH METHOD?	TCLP WHAT?
EDB METHOD?	HERB LIST- LONG OR SHORT?
NEED LIST OF COMPOUNDS:	8260 INSTEAD OF 8021?
TEMPERATURE UPON RECEIPT	SATURDAY DELIVERY MARKED?
ICE -- OR-- NO ICE??	FIELD TEST-- OUT OF HOLD
NO COC - PLEASE FAX	NO ANALYSIS REQUESTED
DOCUMENTATION LEVEL?	OUT OF HOLDING TIME-- TEST

Other: Please put 00a136573-76 on Acct 2656

Also add quote# 0301001021999

RESOLUTION:

CONTACTED	DATE/TIME	EMAIL	LEFT MESSAGE
Betsy Mahan	02-Oct	X	

Cathy G

Please Change Account #

SPECIALIZED ASSAYS, INC.
2960 FOSTER CRRIGHTON DRIVE
NASHVILLE, TENNESSEE

2656
8009

ACCURA ANALYTICAL LABORATORY
DAVID FULLER (EXT.204)
6017 FINANCIAL DRIVE
NORCROSS, GA 30071

****
* Tracking Number: 209998 *
****

Received Date : 9/30/00
Sampler :
Project Number: 25726/CTO 0029
Project Name :

SAMPLE RECEIPT CONFIRMATION

LAB LOG #	SAMPLE ID	PARAMETERS
00-A139645	CEF-103:SW-01	pH, Water PAH 8310
00-A139646	CEF-103:SW-02	pH, Water PAH 8310
00-A1396-7	CEF-103:SW-03	pH, Water PAH 8310
00-A139648	CEF-103:SW-07	pH, Water PAH 8310
00-A139649	CEF-103:SW-10	pH, Water PAH 8310
00-A139650	CEF-103:SW-11	pH, Water PAH 8310
00-A139651	CEF-103:029-DUP	pH, Water PAH 8310
00-A139652	CEF-103:029-EQB	pH, Water PAH 8310

Karen - Quote not on COC

***** PLEASE REFER TO THIS TRACKING NUMBER WHEN MAKING INQUIRIES ABOUT RESULTS OR SAMPLE STATUS *****

Quote.
0301 00 102199
Quote.

Thanks, Mel

PAH's SW846 8310

SUMMARY DATA

TEST AMERICA, INC.
2960 FOSTER CREIGHTON DRIVE
NASHVILLE, TN 37204
1-800-765-0980

TestAmerica
INCORPORATED

Sample Identification

BLANK

Matrix: Water
% Dry Weight:
Units: UG/L
Dilution Factor: 1
Analysis Method: SW8310
Delivery Group: 209998
Instrument:
Vol Extracted: 1000 ml
Extract Vol: 1.0 ml

Lab Sample ID: BLANK
Date Sampled: 9/28/00
Date Received: 9/30/00
Analysis Date: 10/ 8/00
Analysis Time: 8~~:51~~ 825 KC
Sample QC Group: 445

Extraction Date: 10/3/00

FORM I

CAS NUMBER	ANALYTE	CONCENTRATION		FLAG
91-20-3	Naphthalene	1.00	....	U
83-32-9	Acenaphthene	0.20	....	U
120-12-7	Anthracene	0.20	....	U
206-44-0	Fluoranthene	0.20	....	U
7782-41-4	Fluorene	0.20	....	U
129-00-0	Pyrene	0.20	....	U
56-55-3	Benzo(a)anthracene	0.05	....	U
50-32-8	Benzo(a)pyrene	0.10	....	U
205-99-2	Benzo(b)fluoranthene	0.18	....	U
207-08-9	Benzo(k)fluoranthene	0.17	....	U
218-01-9	Chrysene	0.15	....	U
53-70-3	Dibenzo(a,h)anthracene	0.20	....	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.40	....	U
208-96-8	Acenaphthylene	0.20	....	U
191-24-2	Benzo(g,h,i)perylene	0.20	....	U
85-01-8	Phenanthrene	0.20	....	U
90-12-0	1-Methylnapthalene	1.00	....	U
91-57-6	2-Methylnaphthalene	1.00	....	U

TestAmerica
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Sample Identification

CEF-103:SMW-01

Matrix: Water
pH:
Units: ug/l
Dilution Factor: 1.
Analysis Method: SW8310
Delivery Group: 209998
Instrument:
Vol Extracted: 960. ml
Extract Vol: 1.00 ml

Lab Sample ID: 00-A139645
Date Sampled:: 9/28/00
Date Received: 9/30/00
Analysis Date: 10/ 8/00
Analysis Time: 8:51
Sample QC Group: 445

Extraction Date: 10/ 3/00

FORM I

CAS NUMBER	ANALYTE	CONCENTRATION	FLAG
91-20-3	Naphthalene	1.04	U
83-32-9	Acenaphthene	0.2	U
120-12-7	Anthracene	0.2	U
206-44-0	Fluoranthene	0.2	U
7782-41-4	Fluorene	0.2	U
129-00-0	Pyrene	0.2	U
56-55-3	Benzo(a)anthracene	0.05	U
50-32-8	Benzo(a)pyrene	0.1	U
205-99-2	Benzo(b)fluoranthene	0.19	U
207-08-9	Benzo(k)fluoranthene	0.18	U
218-01-9	Chrysene	0.16	U
53-70-3	Dibenzo(a,h)anthracene	0.2	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.4	U
208-96-8	Acenaphthylene	0.2	U
191-24-2	Benzo(g,h,i)perylene	0.2	U
85-01-8	Phenanthrene	0.2	U
90-12-0	1-Methylnapthalene	1	U
91-57-6	2-Methylnaphthalene	1	U

TestAmerica
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Sample Identification

CEF-103:SMW-02

Matrix: Water
pH:
Units: ug/l
Dilution Factor: 1.
Analysis Method: SW8310
Delivery Group: 209998
Instrument:
Vol Extracted: 960. ml
Extract Vol: 1.00 ml

Lab Sample ID: 00-A139646
Date Sampled:: 9/28/00
Date Received: 9/30/00
Analysis Date: 10/ 8/00
Analysis Time: 8:51
Sample QC Group: 445

Extraction Date: 10/ 3/00

FORM I

CAS NUMBER	ANALYTE	CONCENTRATION	FLAG
91-20-3	Naphthalene	1.04	U
83-32-9	Acenaphthene	0.2	U
120-12-7	Anthracene	0.2	U
206-44-0	Fluoranthene	0.2	U
7782-41-4	Fluorene	0.2	U
129-00-0	Pyrene	0.2	U
56-55-3	Benzo(a)anthracene	0.05	U
50-32-8	Benzo(a)pyrene	0.1	U
205-99-2	Benzo(b)fluoranthene	0.19	U
207-08-9	Benzo(k)fluoranthene	0.18	U
218-01-9	Chrysene	0.16	U
53-70-3	Dibenzo(a,h)anthracene	0.2	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.4	U
208-96-8	Acenaphthylene	0.2	U
191-24-2	Benzo(g,h,i)perylene	0.2	U
85-01-8	Phenanthrene	0.2	U
90-12-0	1-Methylnapthalene	1	U
91-57-6	2-Methylnaphthalene	1	U

TestAmerica
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Sample Identification

CEF-103:SMW-03

Matrix: Water
pH:
Units: ug/l
Dilution Factor: 1.
Analysis Method: SW8310
Delivery Group: 209998
Instrument:
Vol Extracted: 950. ml
Extract Vol: 1.00 ml

Lab Sample ID: 00-A139647
Date Sampled:: 9/28/00
Date Received: 9/30/00
Analysis Date: 10/ 8/00
Analysis Time: 8:51
Sample QC Group: 445

Extraction Date: 10/ 3/00

FORM I

CAS NUMBER	ANALYTE	CONCENTRATION	FLAG
91-20-3	Naphthalene	1.05	U
83-32-9	Acenaphthene	0.2	U
120-12-7	Anthracene	0.2	U
206-44-0	Fluoranthene	0.2	U
7782-41-4	Fluorene	0.2	U
129-00-0	Pyrene	0.2	U
56-55-3	Benzo(a)anthracene	0.05	U
50-32-8	Benzo(a)pyrene	0.11	U
205-99-2	Benzo(b)fluoranthene	0.19	U
207-08-9	Benzo(k)fluoranthene	0.18	U
218-01-9	Chrysene	0.16	U
53-70-3	Dibenzo(a,h)anthracene	0.2	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.4	U
208-96-8	Acenaphthylene	0.2	U
191-24-2	Benzo(g,h,i)perylene	0.2	U
85-01-8	Phenanthrene	0.2	U
90-12-0	1-Methylnapthalene	1	U
91-57-6	2-Methylnaphthalene	1	U

TestAmerica
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Sample Identification

CEF-103:SMW-07

Matrix: Water
pH:
Units: ug/l
Dilution Factor: 1.
Analysis Method: SW8310
Delivery Group: 209998
Instrument:
Vol Extracted: 700. ml
Extract Vol: 1.00 ml

Lab Sample ID: 00-A139648
Date Sampled:: 9/28/00
Date Received: 9/30/00
Analysis Date: 10/ 8/00
Analysis Time: 8:51
Sample QC Group: 445

Extraction Date: 10/ 3/00

FORM I

CAS NUMBER	ANALYTE	CONCENTRATION	FLAG
91-20-3	Naphthalene	1.43	U
83-32-9	Acenaphthene	0.2	U
120-12-7	Anthracene	0.2	U
206-44-0	Fluoranthene	0.2	U
7782-41-4	Fluorene	0.2	U
129-00-0	Pyrene	0.2	U
56-55-3	Benzo(a)anthracene	0.05	U
50-32-8	Benzo(a)pyrene	0.14	U
205-99-2	Benzo(b)fluoranthene	0.2	U
207-08-9	Benzo(k)fluoranthene	0.2	U
218-01-9	Chrysene	0.2	U
53-70-3	Dibenzo(a,h)anthracene	0.2	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.4	U
208-96-8	Acenaphthylene	0.2	U
191-24-2	Benzo(g,h,i)perylene	0.2	U
85-01-8	Phenanthrene	0.2	U
90-12-0	1-Methylnapthalene	1	U
91-57-6	2-Methylnaphthalene	1	U

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Sample Identification

CEF-103:SMW-10

Matrix: Water
pH:
Units: ug/l
Dilution Factor: 1.
Analysis Method: SW8310
Delivery Group: 209998
Instrument:
Vol Extracted: 900. ml
Extract Vol: 1.00 ml

Lab Sample ID: 00-A139649
Date Sampled:: 9/28/00
Date Received: 9/30/00
Analysis Date: 10/ 8/00
Analysis Time: 8:51
Sample QC Group: 445

Extraction Date: 10/ 3/00

FORM I

CAS NUMBER	ANALYTE	CONCENTRATION	FLAG
91-20-3	Naphthalene	1.1	U
83-32-9	Acenaphthene	0.2	U
120-12-7	Anthracene	0.2	U
206-44-0	Fluoranthene	0.2	U
7782-41-4	Fluorene	0.2	U
129-00-0	Pyrene	0.2	U
56-55-3	Benzo(a)anthracene	0.05	U
50-32-8	Benzo(a)pyrene	0.11	U
205-99-2	Benzo(b)fluoranthene	0.2	U
207-08-9	Benzo(k)fluoranthene	0.19	U
218-01-9	Chrysene	0.17	U
53-70-3	Dibenzo(a,h)anthracene	0.2	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.4	U
208-96-8	Acenaphthylene	0.2	U
191-24-2	Benzo(g,h,i)perylene	0.2	U
85-01-8	Phenanthrene	0.2	U
90-12-0	1-Methylnapthalene	1	U
91-57-6	2-Methylnaphthalene	1	U

TestAmerica
INCORPORATED

Sample Identification

CEF-103:SMW-11

Matrix: Water
pH:
Units: ug/l
Dilution Factor: 1.
Analysis Method: SW8310
Delivery Group: 209998
Instrument:
Vol Extracted: 950. ml
Extract Vol: 1.00 ml

Lab Sample ID: 00-A139650
Date Sampled:: 9/28/00
Date Received: 9/30/00
Analysis Date: 10/ 8/00
Analysis Time: 8:51
Sample QC Group: 445

Extraction Date: 10/ 3/00

FORM I

CAS NUMBER	ANALYTE	CONCENTRATION	FLAG
91-20-3	Naphthalene	2.2	
83-32-9	Acenaphthene	0.2	U
120-12-7	Anthracene	0.2	U
206-44-0	Fluoranthene	0.2	U
7782-41-4	Fluorene	0.2	U
129-00-0	Pyrene	0.2	U
56-55-3	Benzo(a)anthracene	0.05	U
50-32-8	Benzo(a)pyrene	0.11	U
205-99-2	Benzo(b)fluoranthene	0.19	U
207-08-9	Benzo(k)fluoranthene	0.18	U
218-01-9	Chrysene	0.16	U
53-70-3	Dibenzo(a,h)anthracene	0.2	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.4	U
208-96-8	Acenaphthylene	0.2	U
191-24-2	Benzo(g,h,i)perylene	0.2	U
85-01-8	Phenanthrene	0.2	U
90-12-0	1-Methylnapthalene	1	U
91-57-6	2-Methylnaphthalene	1	U

TestAmerica
INCORPORATED

Sample Identification

CEF-103:029-DUP

Matrix: Water
pH:
Units: ug/l
Dilution Factor: 1.
Analysis Method: SW8310
Delivery Group: 209998
Instrument:
Vol Extracted: 960. ml
Extract Vol: 1.00 ml

Lab Sample ID: 00-A139651
Date Sampled:: 9/28/00
Date Received: 9/30/00
Analysis Date: 10/ 8/00
Analysis Time: 8:51
Sample QC Group: 445

Extraction Date: 10/ 3/00

FORM I

CAS NUMBER	ANALYTE	CONCENTRATION	FLAG
91-20-3	Naphthalene	1.04	U
83-32-9	Acenaphthene	0.2	U
120-12-7	Anthracene	0.2	U
206-44-0	Fluoranthene	0.2	U
7782-41-4	Fluorene	0.2	U
129-00-0	Pyrene	0.2	U
56-55-3	Benzo(a)anthracene	0.05	U
50-32-8	Benzo(a)pyrene	0.1	U
205-99-2	Benzo(b)fluoranthene	0.19	U
207-08-9	Benzo(k)fluoranthene	0.18	U
218-01-9	Chrysene	0.16	U
53-70-3	Dibenzo(a,h)anthracene	0.2	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.4	U
208-96-8	Acenaphthylene	0.2	U
191-24-2	Benzo(g,h,i)perylene	0.2	U
85-01-8	Phenanthrene	0.2	U
90-12-0	1-Methylnapthalene	1	U
91-57-6	2-Methylnaphthalene	1	U

TestAmerica
INCORPORATED

Sample Identification

CEF-103:029-EQB

Matrix: Water
pH:
Units: ug/l
Dilution Factor: 1.
Analysis Method: SW8310
Delivery Group: 209998
Instrument:
Vol Extracted: 980. ml
Extract Vol: 1.00 ml

Lab Sample ID: 00-A139652
Date Sampled:: 9/28/00
Date Received: 9/30/00
Analysis Date: 10/ 8/00
Analysis Time: 8:51
Sample QC Group: 445

Extraction Date: 10/ 3/00

FORM I

CAS NUMBER	ANALYTE	CONCENTRATION	FLAG
91-20-3	Naphthalene	1.02	U
83-32-9	Acenaphthene	0.2	U
120-12-7	Anthracene	0.2	U
206-44-0	Fluoranthene	0.2	U
7782-41-4	Fluorene	0.2	U
129-00-0	Pyrene	0.2	U
56-55-3	Benzo(a)anthracene	0.05	U
50-32-8	Benzo(a)pyrene	0.1	U
205-99-2	Benzo(b)fluoranthene	0.18	U
207-08-9	Benzo(k)fluoranthene	0.17	U
218-01-9	Chrysene	0.15	U
53-70-3	Dibenzo(a,h)anthracene	0.2	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.4	U
208-96-8	Acenaphthylene	0.4	U
191-24-2	Benzo(g,h,i)perylene	0.2	U
85-01-8	Phenanthrene	0.2	U
90-12-0	1-Methylnapthalene	1	U
91-57-6	2-Methylnaphthalene	1	U

2A

8310 PAH SURROGATE RECOVERY SUMMARY

Lab Name: Test America

SDG # 209998

	SAMPLE NO.			Surrogat % Recovery		TOT OUT
01	XBLANK W			68		0
02	CEF-103: SMW-01			56		0
03	SEF-103: SMW-02			35		0
04	SEF-103: SMW-03			59		0
05	SEF-103: SMW-07			45		0
06	SEF-103: SMW-10			61		0
07	SEF-103: SMW-11			56		0
08	SEF-103: 029-DUP			47		0
09	SEF-103: 029-EQB			80		0
10	BLANK MS			72		0
11	BLANK MSD			82		0
12	CONTROL W			87		0
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						
26						
27						
28						
29						
30						

QC LIMITS: 20-140

Surrogate used: **P-Terphenyl d-14**

(+): Surrogate not determined due to interference

*** Values outside of contract required QC limits**

D System Monitoring Compound diluted out

TestAmerica INCORPORATED

FORM 3C

SEMIVOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab: Specialized Assays, Inc. Project:

Matrix Spike Sample: Reagent water SDG: 209998

QC Group: 445

Compound	Spike Added	Sample Conc	Spike Conc	% Rec	QC Limits
Naphthalene	10	0	7	70	10 - 116
Acenaphthene	10	0	5.8	58	10 - 101
Anthracene	10	0	7.4	74	10 - 100
Fluoranthene	10	0	7.4	74	37 - 137
Fluorene	10	0	6.9	69	17 - 96
Pyrene	10	0	7	70	26 - 129
Benzo(a)anthracene	10	0	7.6	76	29 - 130
Benzo(a)pyrene	10	0	7.4	74	22 - 128
Benzo(b)fluoranthene	10	0	7.3	73	27 - 130
Benzo(k)fluoranthene	10	0	7.5	75	26 - 134
Chrysene	10	0	7.3	73	25 - 132
Dibenzo(a,h)anthracene	10	0	9	90	18 - 136
Indeno(1,2,3-cd)pyrene	10	0	7.4	74	18 - 135
Acenaphthylene	10	0	8.1	81	10 - 110
Benzo(g,h,i)perylene	10	0	7.6	76	24 - 135
Phenanthrene	10	0	7.4	74	17 - 108

Compound	Spike Added	MSD Conc	% Rec	RPD	RPD Limit	Recovery Limits

TestAmerica
FORM 3C INCORPORATED

SEMIVOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab: Specialized Assays, Inc. Project:

Naphthalene	10	7.4	74	6	70	10 - 116
Acenaphthene	10	6.6	66	13	77	10 - 101
Anthracene	10	7.8	78	5	62	10 - 100
Fluoranthene	10	7.8	78	5	64	37 - 137
Fluorene	10	7.6	76	10	61	17 - 96
Pyrene	10	7.7	77	10	62	26 - 129
Benzo(a)anthracene	10	8.2	82	8	59	29 - 130
Benzo(a)pyrene	10	8	80	8	62	22 - 128
Benzo(b)fluoranthene	10	7.9	79	8	59	27 - 130
Benzo(k)fluoranthene	10	7.9	79	5	59	26 - 134
Chrysene	10	7.9	79	8	58	25 - 132
Dibenzo(a,h)anthracene	10	8.5	85	6	64	18 - 136
Indeno(1,2,3-cd)pyrene	10	7.9	79	7	70	18 - 135
Acenaphthylene	10	8.8	88	8	91	10 - 110
Benzo(g,h,i)perylene	10	7.9	79	4	69	24 - 135
Phenanthrene	10	7.7	77	4	65	17 - 108

Concentration Units: ug/l

RPD: 0 out of 16 outside QC limits.
Spike Recoveries: 0 out of 32 outside QC limits.

TestAmerica INCORPORATED

FORM 3Ca

SEMI-VOLATILE LABORATORY CONTROL RECOVERY

Lab: Specialized Assays, Inc.

Project:
SDG: 209998

Compound	Known Value	Conc	% Rec	QC Limits
Naphthalene	10.0	8.10	81	20-151
Acenaphthene	10.0	6.40	64	18-134
Anthracene	10.0	7.80	78	38-97
Fluoranthene	10.0	8.00	80	40-143
Fluorene	10.0	7.60	76	33-105
Pyrene	10.0	7.80	78	33-129
Benzo(a)anthracene	10.0	8.20	82	47-113
Benzo(a)pyrene	10.0	8.10	81	34-119
Benzo(b)fluoranthene	10.0	8.10	81	47-113
Benzo(k)fluoranthene	10.0	8.10	81	48-118
Chrysene	10.0	7.80	78	45-115
Dibenzo(a,h)anthracene	10.0	9.40	94	42-113
Indeno(1,2,3-cd)pyrene	10.0	8.20	82	38-114
Acenaphthylene	10.0	8.80	88	20-140
Benzo(g,h,i)perylene	10.0	8.20	82	42-130
Phenanthrene	10.0	8.00	80	37-105

Concentration Units: ug/l

Recoveries: 0 out of 16 outside QC limits.

4C

SAMPLE NO.

8310 PAH,S METHOD BLANK SUMMARY

XBLANK W

Lab Name: Test America **Lab Sample ID:** 31448 wbb

SDG # 209998 **Lab File ID:** 1008lc3.002

Instrument ID: HPLC 3 **Date Analyzed:** 10/08/00

Extract Volume: 1000 ml **Time Analyzed:** 8:25

Volume Extracte 1 ml **Date Received:** 09/30/00

HPLC Column: Reverse Pahse c18 **Date Extracted:** 10/03/00

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

	CLIENT ID	LAB ID	LAB FILE ID	DATE	TIME ANALYZED
01	CEF-103: SMW-01	139645	1008lc3.003	10/8/00	8:51
02	SEF-103: SMW-02	139646	1008lc3.004	10/8/00	9:17
03	SEF-103: SMW-03	139647	1008lc3.005	10/8/00	9:43
04	SEF-103: SMW-07	139648	1008lc3.006	10/8/00	10:09
05	SEF-103: SMW-10	139649	1008lc3.007	10/8/00	10:36
06	SEF-103: SMW-11	139650	1008lc3.008	10/8/00	11:02
07	SEF-103: 029-DUP	139651	1008lc3.009	10/8/00	11:28
08	SEF-103: 029-EQB	139652	1008lc3.010	10/8/00	11:54
09	BLANK MS	31449 wsb	1008lc3.011	10/8/00	12:21
10	BLANK MSD	31550 wsb	1008lc3.013	10/8/00	13:13
11	CONTROL W	24628 lcs	1008lc3.014	10/8/00	13:39
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					

COMMENTS:

PAH's SW846 8310

RAW DATA

TEST AMERICA, INC.
2960 FOSTER CREIGHTON DRIVE
NASHVILLE, TN 37204
1-800-765-0980

TestAmerica
INCORPORATED

Sample Identification

CEF-103:SMW-01

Matrix: Water
pH:
Units: ug/l
Dilution Factor: 1.
Analysis Method: SW8310
Delivery Group: 209998
Instrument:
Vol Extracted: 960. ml
Extract Vol: 1.00 ml

Lab Sample ID: 00-A139645
Date Sampled:: 9/28/00
Date Received: 9/30/00
Analysis Date: 10/ 8/00
Analysis Time: 8:51
Sample QC Group: 445

Extraction Date: 10/ 3/00

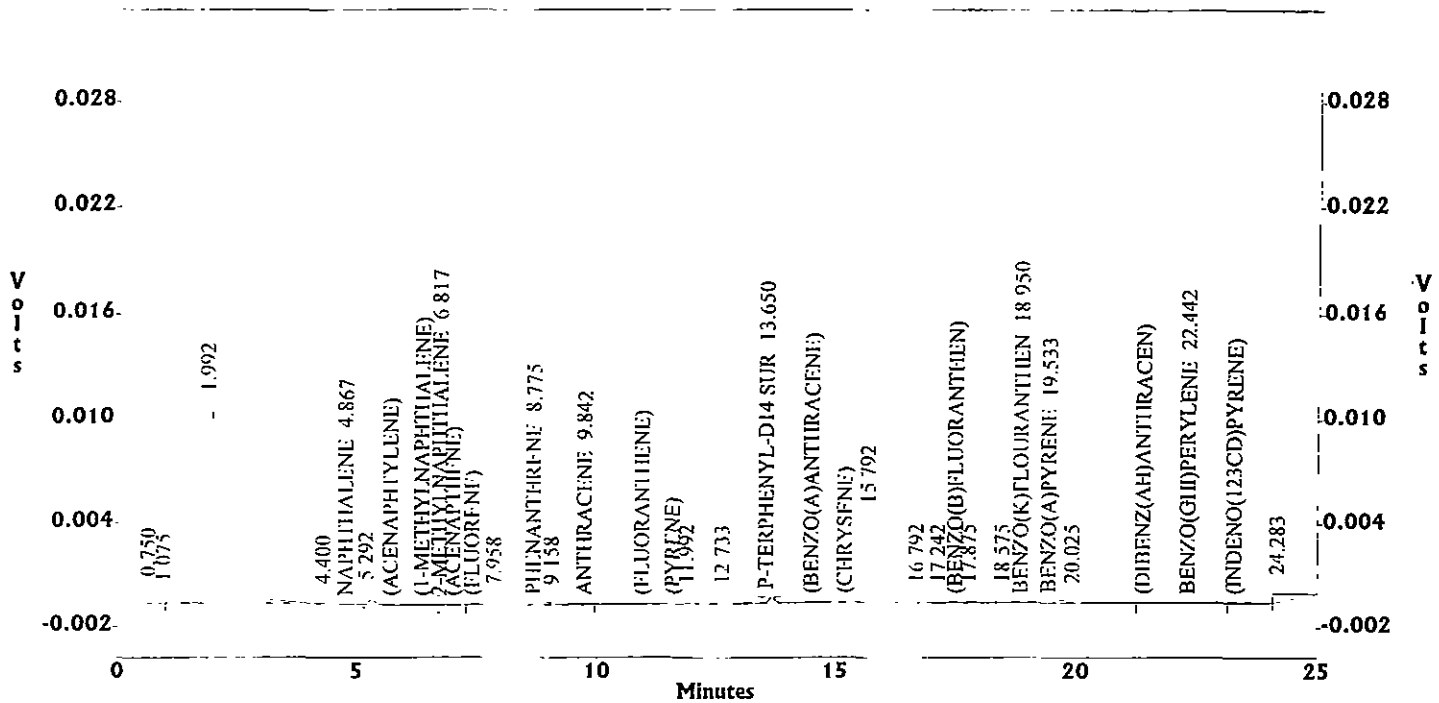
FORM I

CAS NUMBER	ANALYTE	CONCENTRATION	FLAG
91-20-3	Naphthalene	1.04	U
83-32-9	Acenaphthene	0.2	U
120-12-7	Anthracene	0.2	U
206-44-0	Fluoranthene	0.2	U
7782-41-4	Fluorene	0.2	U
129-00-0	Pyrene	0.2	U
56-55-3	Benzo(a)anthracene	0.05	U
50-32-8	Benzo(a)pyrene	0.1	U
205-99-2	Benzo(b)fluoranthene	0.19	U
207-08-9	Benzo(k)fluoranthene	0.18	U
218-01-9	Chrysene	0.16	U
53-70-3	Dibenzo(a,h)anthracene	0.2	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.4	U
208-96-8	Acenaphthylene	0.2	U
191-24-2	Benzo(g,h,i)perylene	0.2	U
85-01-8	Phenanthrene	0.2	U
90-12-0	1-Methylnapthalene	1	U
91-57-6	2-Methylnaphthalene	1	U

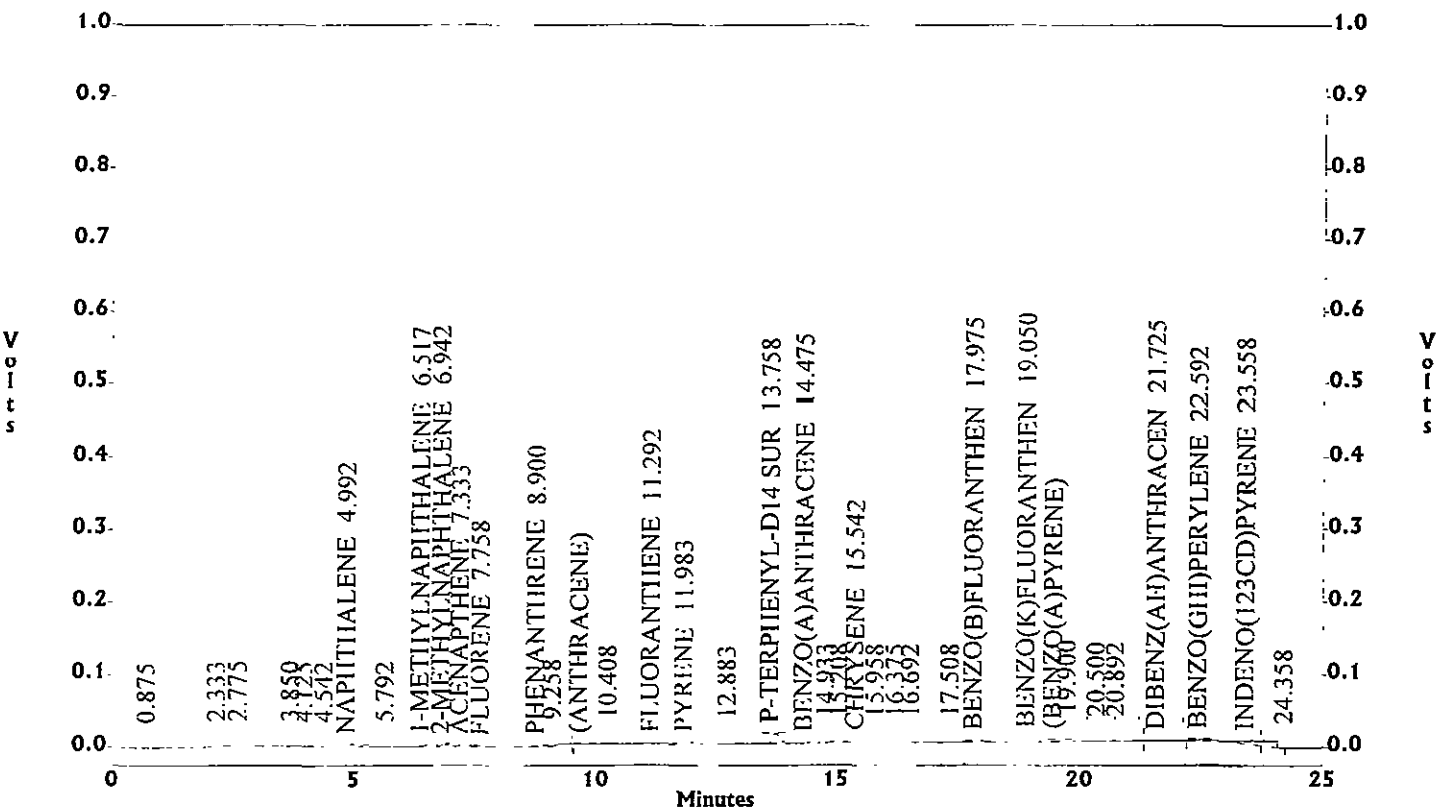
HPLC 1

File : c:\ezchromb\chrom\1008lc3.003
Method : c:\ezchromb\methods\lc1\13ph0918.met
Sample ID : 139645
Acquired : Oct 08, 2000 08:51:16
Printed : Oct 09, 2000 07:22:24
User : System

c:\ezchromb\chrom\1008lc3.003 -- Channel A



c:\ezchromb\chrom\1008lc3.003 -- Channel B



HPLC 1

File : c:\ezchromb\chrom\10081c3.003
Method : c:\ezchromb\methods\lc1\l3ph0918.met
Sample ID : 139645
Acquired : Oct 08, 2000 08:51:16
Printed : Oct 09, 2000 07:22:24
User : System

Channel A Results

Peak Name	Time	Area	Conc.	
NAPHTHALENE	4.87	209	0.00	
ACENAPHTYLENE	5.80	0	0.00	
1-METHYLNAPHT	6.45	0	0.00	
2-METHYLNAPHT	6.82	219	0.13	
ACENAPTHENE	7.10	0	0.00	
FLUORENE	7.50	0	0.00	
PHENANTHRENE	8.77	1210	0.00	
ANTHRACENE	9.84	272	0.00	
FLUORANTHENE	11.05	0	0.00	
PYRENE	11.70	0	0.00	
P-TERPHENYL-D	13.65	3150	0.56	/
BENZO(A)ANTHR	14.60	0	0.00	
CHRYSENE	15.30	0	0.00	
BENZO(B)FLUOR	17.60	0	0.00	
BENZO(K)FLOUR	18.95	112	0.03	
BENZO(A)PYREN	19.53	1203	0.11	NV
DIBENZ(AH)ANT	21.50	0	0.00	
BENZO(GHI)PER	22.44	189	0.06	
INDENO(123CD)	23.40	0	0.00	

Channel B Results

Name	Time	Area	Conc.
NAPHTHALENE	4.99	42720	0.06
1-METHYLNAPHT	6.52	14446	0.09
2-METHYLNAPHT	6.94	36562	0.19
ACENAPTHENE	7.33	12323	0.01
FLUORENE	7.76	5060	0.00
PHENANTHRENE	8.90	20483	0.00
ANTHRACENE	9.80	0	0.00
FLUORANTHENE	11.29	21896	0.00
PYRENE	11.98	29618	0.04
P-TERPHENYL-D	13.76	148203	0.56
BENZO(A)ANTHR	14.48	13039	0.01
CHRYSENE	15.54	34512	0.01
BENZO(B)FLUOR	17.98	19195	0.02
BENZO(K)FLUOR	19.05	49590	0.00
BENZO(A)PYREN	19.60	0	0.00
DIBENZ(AH)ANT	21.73	12104	0.02
BENZO(GHI)PER	22.59	32271	0.04
INDENO(123CD)	23.56	298789	0.95

TestAmerica
INCORPORATED

Sample Identification

CEF-103:SMW-02

Matrix: Water
pH:
Units: ug/l
Dilution Factor: 1.
Analysis Method: SW8310
Delivery Group: 209998
Instrument:
Vol Extracted: 960. ml
Extract Vol: 1.00 ml

Lab Sample ID: 00-A139646
Date Sampled:: 9/28/00
Date Received: 9/30/00
Analysis Date: 10/ 8/00
Analysis Time: 8:51
Sample QC Group: 445

Extraction Date: 10/ 3/00

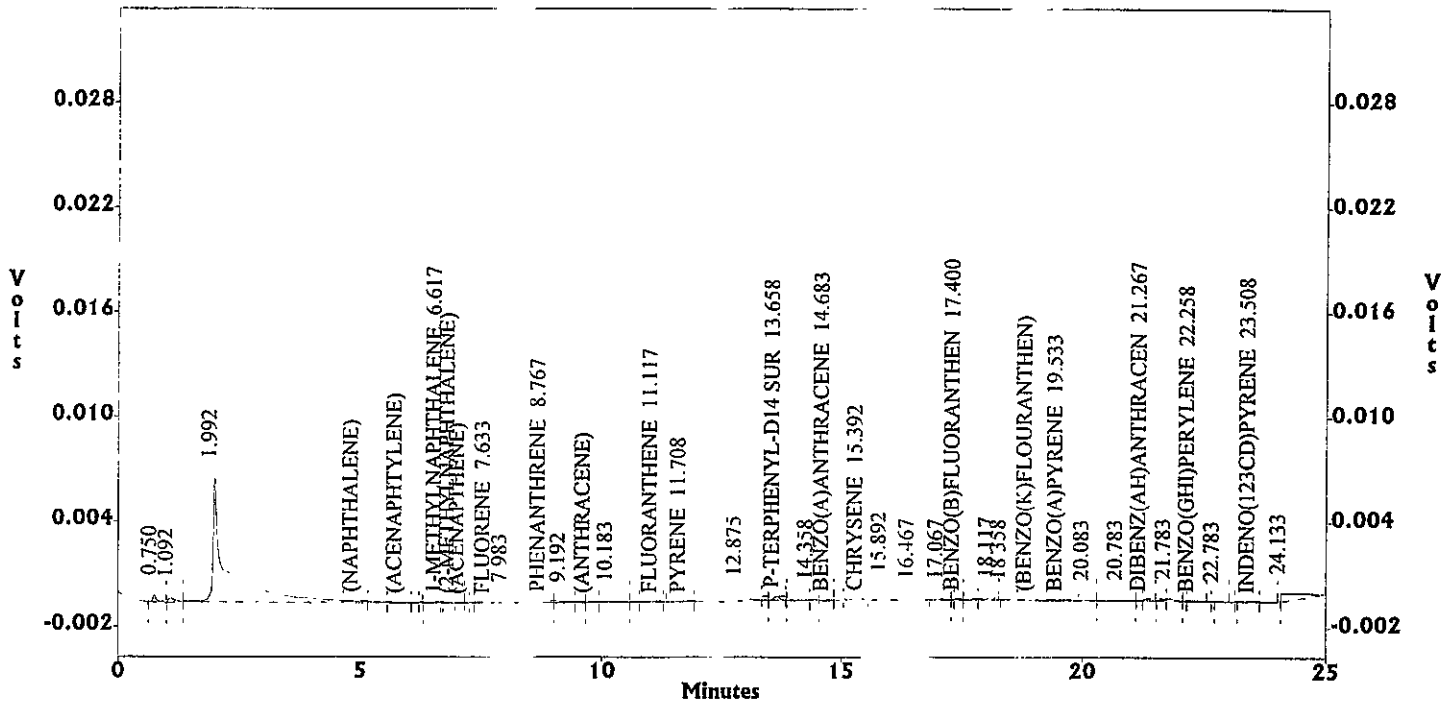
FORM I

CAS NUMBER	ANALYTE	CONCENTRATION	FLAG
91-20-3	Naphthalene	1.04	U
83-32-9	Acenaphthene	0.2	U
120-12-7	Anthracene	0.2	U
206-44-0	Fluoranthene	0.2	U
7782-41-4	Fluorene	0.2	U
129-00-0	Pyrene	0.2	U
56-55-3	Benzo(a)anthracene	0.05	U
50-32-8	Benzo(a)pyrene	0.1	U
205-99-2	Benzo(b)fluoranthene	0.19	U
207-08-9	Benzo(k)fluoranthene	0.18	U
218-01-9	Chrysene	0.16	U
53-70-3	Dibenzo(a,h)anthracene	0.2	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.4	U
208-96-8	Acenaphthylene	0.2	U
191-24-2	Benzo(g,h,i)perylene	0.2	U
85-01-8	Phenanthrene	0.2	U
90-12-0	1-Methylnapthalene	1	U
91-57-6	2-Methylnaphthalene	1	U

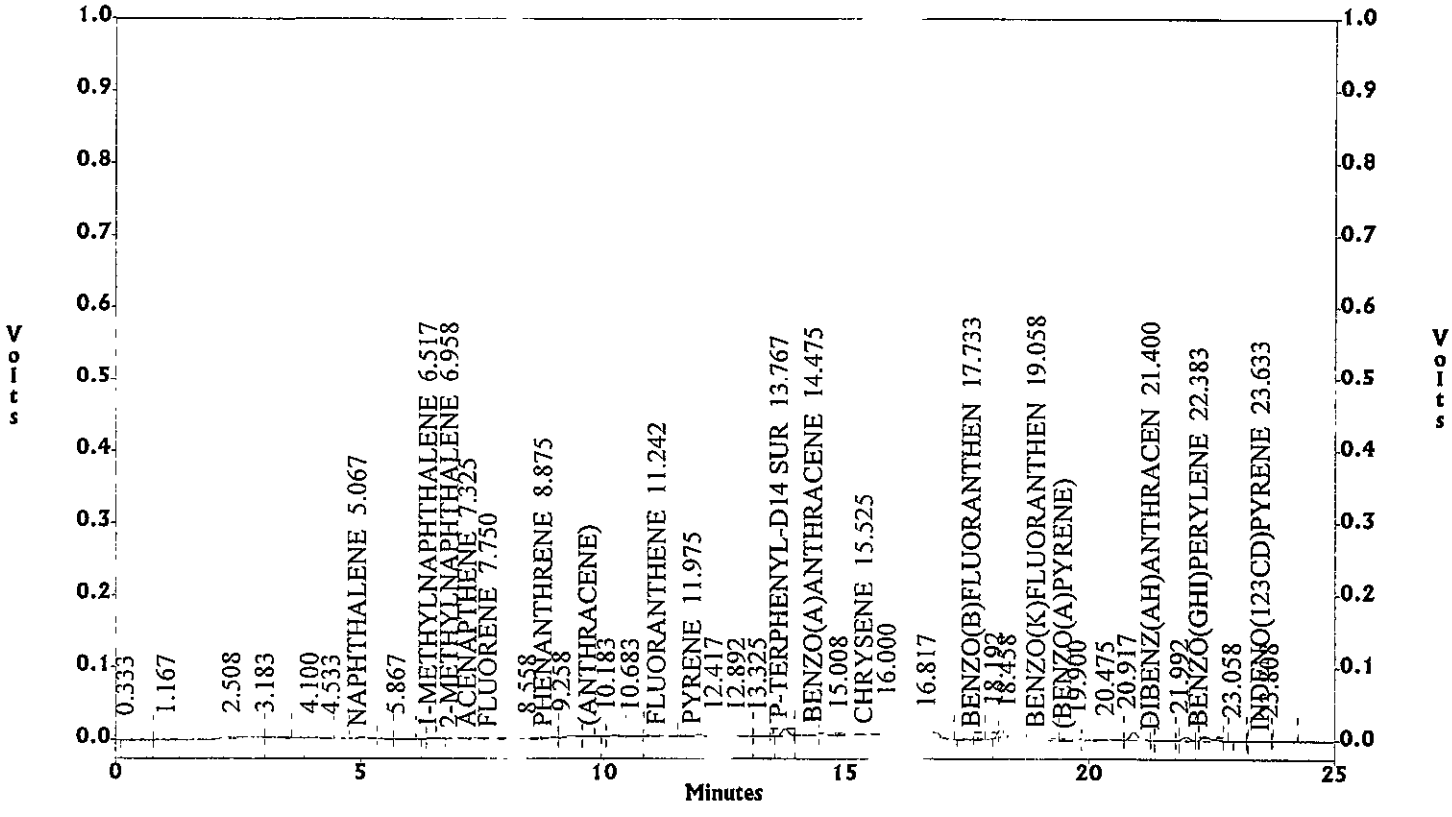
HPLC 1

File : c:\ezchromb\chrom\1008lc3.004
Method : c:\ezchromb\methods\lc1\13ph0918.met
Sample ID : 139646
Acquired : Oct 08, 2000 09:17:29
Printed : Oct 09, 2000 07:22:26
User : System

c:\ezchromb\chrom\1008lc3.004 -- Channel A



c:\ezchromb\chrom\1008lc3.004 -- Channel B



HPLC 1

File : c:\ezchromb\chrom\10081c3.004
Method : c:\ezchromb\methods\1c1\13ph0918.met
Sample ID : 139646
Acquired : Oct 08, 2000 09:17:29
Printed : Oct 09, 2000 07:22:27
User : System

Channel A Results

Peak Name	Time	Area	Conc.
NAPHTHALENE	4.90	0	0.00
ACENAPHTYLENE	5.80	0	0.00
1-METHYLNAPHT	6.62	625	0.51
2-METHYLNAPHT	6.90	0	0.00
ACENAPTHENE	7.10	0	0.00
FLUORENE	7.63	338	0.00
PHENANTHRENE	8.77	1427	0.00
ANTHRACENE	9.70	0	0.00
FLUORANTHENE	11.12	482	0.00
PYRENE	11.71	715	0.04
P-TERPHENYL-D	13.66	1970	0.35
BENZO(A)ANTHR	14.68	98	0.02
CHRYSENE	15.39	837	0.05
BENZO(B)FLUOR	17.40	204	0.03
BENZO(K)FLUOR	18.90	0	0.00
BENZO(A)PYREN	19.53	905	0.09
DIBENZ(AH)ANT	21.27	722	0.32
BENZO(GHI)PER	22.26	275	0.07
INDENO(123CD)	23.51	669	0.06

Channel B Results

Name	Time	Area	Conc.
NAPHTHALENE	5.07	40302	0.05
1-METHYLNAPHT	6.52	15596	0.09
2-METHYLNAPHT	6.96	16446	0.15
ACENAPTHENE	7.32	12926	0.01
FLUORENE	7.75	8479	0.00
PHENANTHRENE	8.88	13483	0.00
ANTHRACENE	9.80	0	0.00
FLUORANTHENE	11.24	13682	0.00
PYRENE	11.98	23677	0.03
P-TERPHENYL-D	13.77	96265	0.35
BENZO(A)ANTHR	14.48	55387	0.03
CHRYSENE	15.52	21933	0.01
BENZO(B)FLUOR	17.73	30881	0.03
BENZO(K)FLUOR	19.06	46096	0.00
BENZO(A)PYREN	19.60	0	0.00
DIBENZ(AH)ANT	21.40	8755	0.02
BENZO(GHI)PER	22.38	85421	0.08
INDENO(123CD)	23.63	1974	0.00

TestAmerica
INCORPORATED

Sample Identification

CEF-103:SMW-03

Matrix: Water
pH:
Units: ug/l
Dilution Factor: 1.
Analysis Method: SW8310
Delivery Group: 209998
Instrument:
Vol Extracted: 950. ml
Extract Vol: 1.00 ml

Lab Sample ID: 00-A139647
Date Sampled:: 9/28/00
Date Received: 9/30/00
Analysis Date: 10/ 8/00
Analysis Time: 8:51
Sample QC Group: 445

Extraction Date: 10/ 3/00

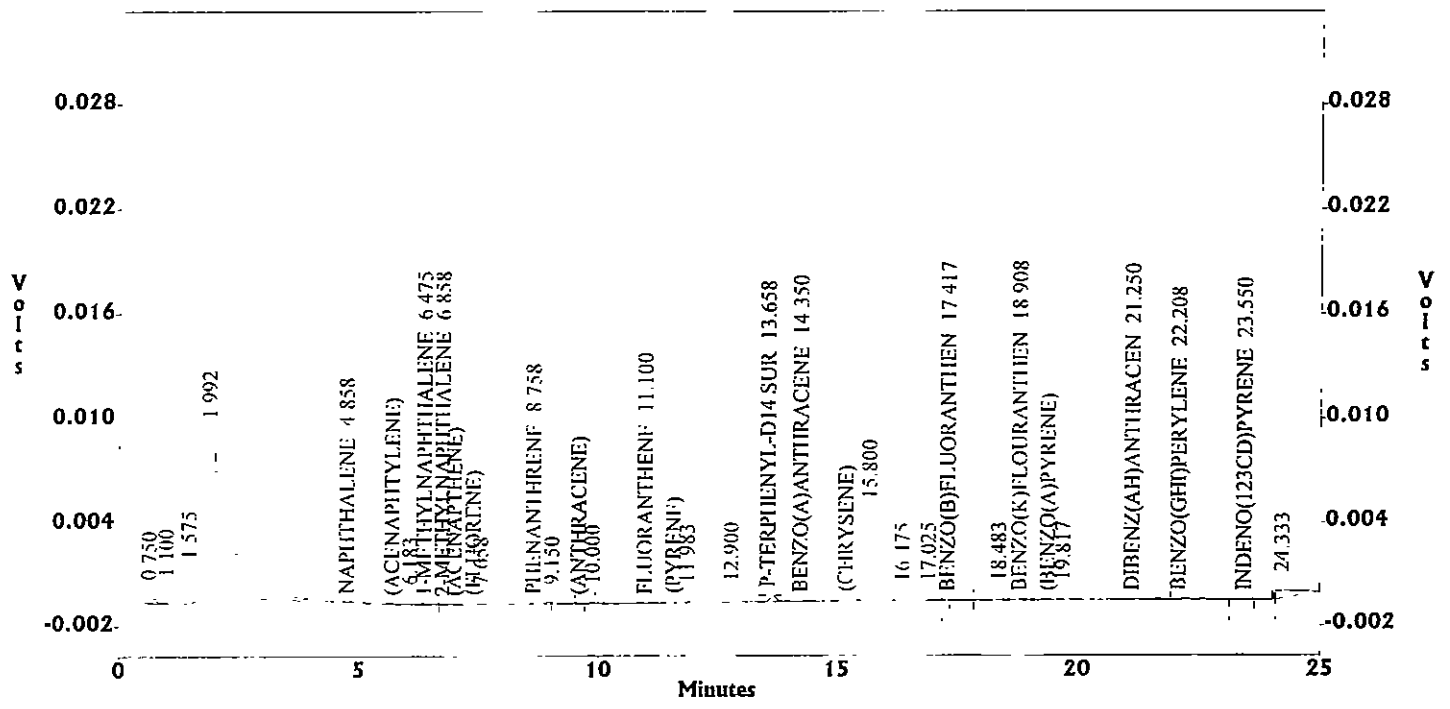
FORM I

CAS NUMBER	ANALYTE	CONCENTRATION	FLAG
91-20-3	Naphthalene	1.05	U
83-32-9	Acenaphthene	0.2	U
120-12-7	Anthracene	0.2	U
206-44-0	Fluoranthene	0.2	U
7782-41-4	Fluorene	0.2	U
129-00-0	Pyrene	0.2	U
56-55-3	Benzo(a)anthracene	0.05	U
50-32-8	Benzo(a)pyrene	0.11	U
205-99-2	Benzo(b)fluoranthene	0.19	U
207-08-9	Benzo(k)fluoranthene	0.18	U
218-01-9	Chrysene	0.16	U
53-70-3	Dibenzo(a,h)anthracene	0.2	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.4	U
208-96-8	Acenaphthylene	0.2	U
191-24-2	Benzo(g,h,i)perylene	0.2	U
85-01-8	Phenanthrene	0.2	U
90-12-0	1-Methylnapthalene	1	U
91-57-6	2-Methylnaphthalene	1	U

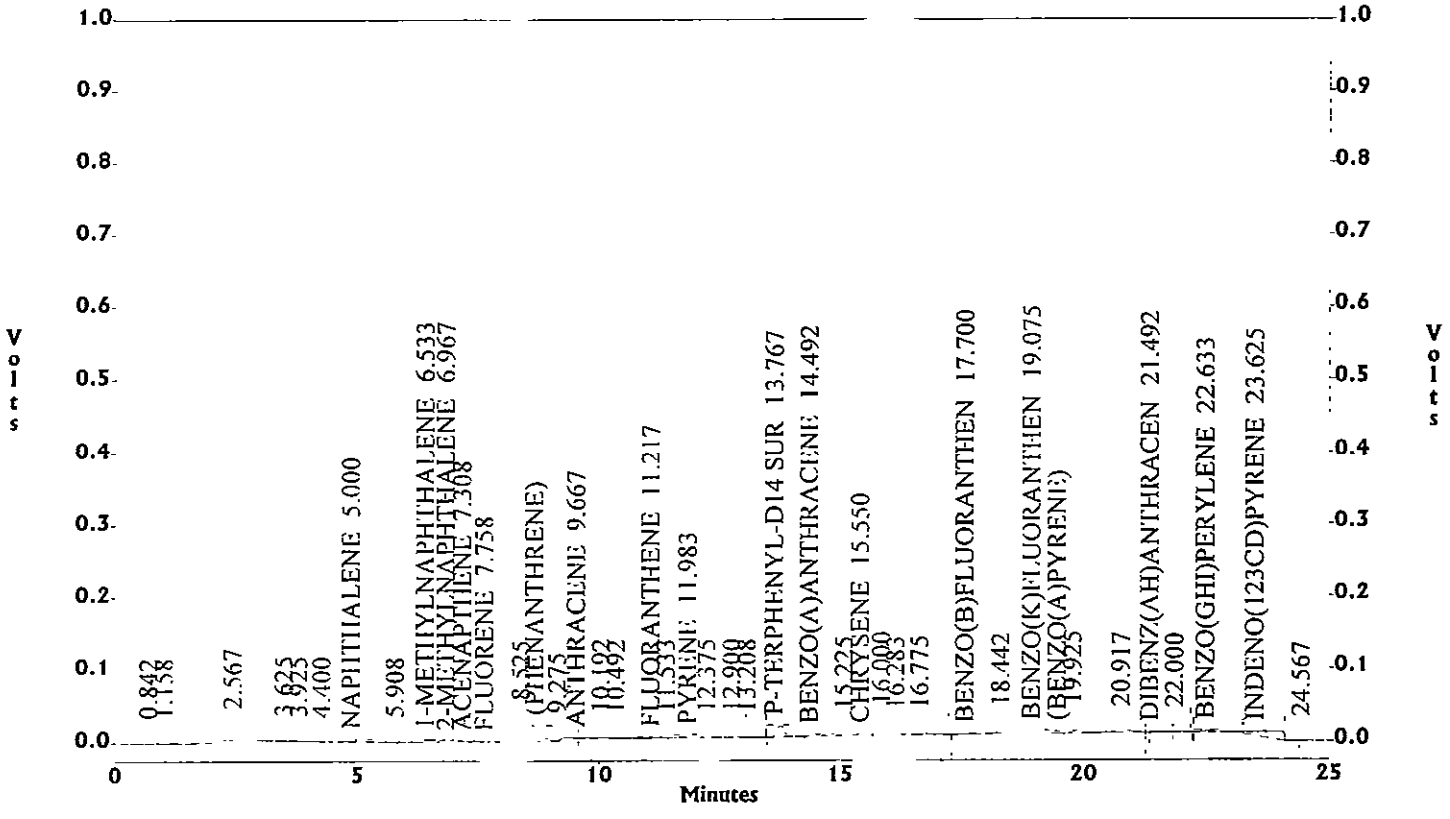
HPLC 1

File : c:\ezchromb\chrom\1008lc3.005
Method : c:\ezchromb\methods\lc1\13ph0918.met
Sample ID : 139647
Acquired : Oct 08, 2000 09:43:43
Printed : Oct 09, 2000 07:22:29
User : System

c:\ezchromb\chrom\1008lc3.005 -- Channel A



c:\ezchromb\chrom\1008lc3.005 -- Channel B



HPLC 1

File : c:\ezchromb\chrom\1008lc3.005
Method : c:\ezchromb\methods\lc1\l3ph0918.met
Sample ID : 139647
Acquired : Oct 08, 2000 09:43:43
Printed : Oct 09, 2000 07:22:29
User : System

Channel A Results

Peak Name	Time	Area	Conc.	
NAPHTHALENE	4.86	398	0.06	
ACENAPHTYLENE	5.80	0	0.00	
1-METHYLNAPHT	6.47	143	0.10	
2-METHYLNAPHT	6.86	83	0.05	
ACENAPTHENE	7.10	0	0.00	
FLUORENE	7.50	0	0.00	
PHENANTHRENE	8.76	1463	0.00	
ANTHRACENE	9.70	0	0.00	
FLUORANTHENE	11.10	345	0.00	
PYRENE	11.70	0	0.00	
P-TERPHENYL-D	13.66	3322	0.59	✓
BENZO(A)ANTHR	14.35	202	0.03	
CHRYSENE	15.30	0	0.00	
BENZO(B)FLUOR	17.42	400	0.04	
BENZO(K)FLOUR	18.91	74	0.02	
BENZO(A)PYREN	19.50	0	0.00	
DIBENZ(AH)ANT	21.25	1063	0.44	✓
BENZO(GHI)PER	22.21	915	0.18	✓
INDENO(123CD)	23.55	646	0.06	

Channel B Results

Name	Time	Area	Conc.	
NAPHTHALENE	5.00	49233	0.08	
1-METHYLNAPHT	6.53	33716	0.12	
2-METHYLNAPHT	6.97	23183	0.16	
ACENAPTHENE	7.31	10932	0.01	
FLUORENE	7.76	6819	0.00	
PHENANTHRENE	8.80	0	0.00	
ANTHRACENE	9.67	1590	0.00	
FLUORANTHENE	11.22	6362	0.00	
PYRENE	11.98	40921	0.05	
P-TERPHENYL-D	13.77	168387	0.64	
BENZO(A)ANTHR	14.49	38366	0.02	
CHRYSENE	15.55	27647	0.01	
BENZO(B)FLUOR	17.70	18894	0.02	
BENZO(K)FLUOR	19.08	47299	0.00	
BENZO(A)PYREN	19.60	0	0.00	
DIBENZ(AH)ANT	21.49	4831	0.02	
BENZO(GHI)PER	22.63	49066	0.05	
INDENO(123CD)	23.63	394686	1.25	not agood result

TestAmerica
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Sample Identification

CEF-103:SMW-07

Matrix: Water
pH:
Units: ug/l
Dilution Factor: 1.
Analysis Method: SW8310
Delivery Group: 209998
Instrument:
Vol Extracted: 700. ml
Extract Vol: 1.00 ml

Lab Sample ID: 00-A139648
Date Sampled:: 9/28/00
Date Received: 9/30/00
Analysis Date: 10/ 8/00
Analysis Time: 8:51
Sample QC Group: 445

Extraction Date: 10/ 3/00

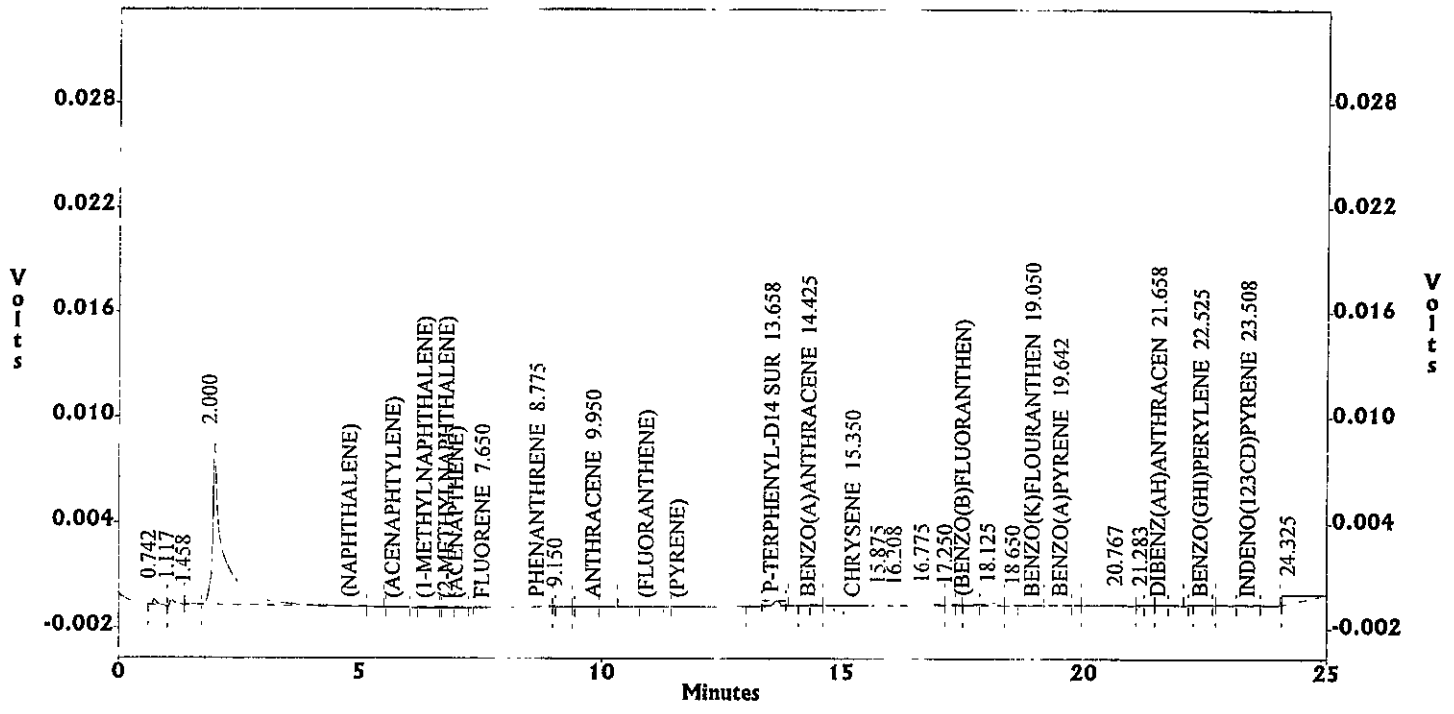
FORM I

CAS NUMBER	ANALYTE	CONCENTRATION	FLAG
91-20-3	Naphthalene	1.43	U
83-32-9	Acenaphthene	0.2	U
120-12-7	Anthracene	0.2	U
206-44-0	Fluoranthene	0.2	U
7782-41-4	Fluorene	0.2	U
129-00-0	Pyrene	0.2	U
56-55-3	Benzo(a)anthracene	0.05	U
50-32-8	Benzo(a)pyrene	0.14	U
205-99-2	Benzo(b)fluoranthene	0.2	U
207-08-9	Benzo(k)fluoranthene	0.2	U
218-01-9	Chrysene	0.2	U
53-70-3	Dibenzo(a,h)anthracene	0.2	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.4	U
208-96-8	Acenaphthylene	0.2	U
191-24-2	Benzo(g,h,i)perylene	0.2	U
85-01-8	Phenanthrene	0.2	U
90-12-0	1-Methylnapthalene	1	U
91-57-6	2-Methylnaphthalene	1	U

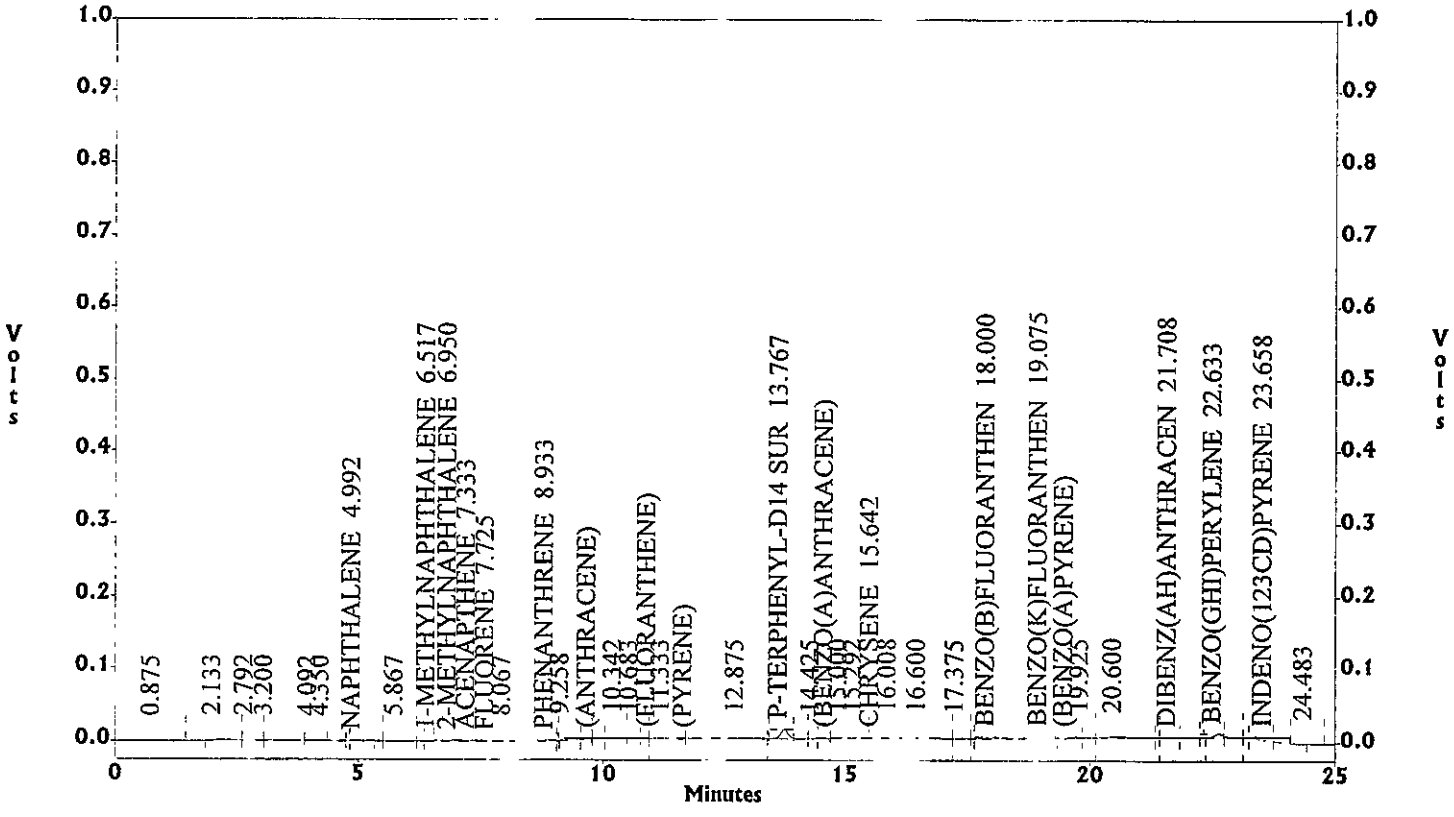
HPLC 1

File : c:\ezchromb\chrom\1008lc3.006
Method : c:\ezchromb\methods\lc1\13ph0918.met
Sample ID : 139648
Acquired : Oct 08, 2000 10:09:55
Printed : Oct 09, 2000 07:22:32
User : System

c:\ezchromb\chrom\1008lc3.006 -- Channel A



c:\ezchromb\chrom\1008lc3.006 -- Channel B



HPLC 1

File : c:\ezchromb\chrom\10081c3.006
Method : c:\ezchromb\methods\1c1\13ph0918.met
Sample ID : 139648
Acquired : Oct 08, 2000 10:09:55
Printed : Oct 09, 2000 07:22:33
User : System

Channel A Results

Peak Name	Time	Area	Conc.
NAPHTHALENE	4.90	0	0.00
ACENAPHTYLENE	5.80	0	0.00
1-METHYLNAPHT	6.45	0	0.00
2-METHYLNAPHT	6.90	0	0.00
ACENAPTHENE	7.10	0	0.00
FLUORENE	7.65	190	0.00
PHENANTHRENE	8.77	597	0.00
ANTHRACENE	9.95	442	0.00
FLUORANTHENE	11.05	0	0.00
PYRENE	11.70	0	0.00
P-TERPHENYL-D	13.66	2541	0.45
BENZO(A)ANTHR	14.43	338	0.04
CHRYSENE	15.35	561	0.04
BENZO(B)FLUOR	17.60	0	0.00
BENZO(K)FLOUR	19.05	160	0.03
BENZO(A)PYREN	19.64	309	0.05
DIBENZ(AH)ANT	21.66	123	0.10
BENZO(GHI)PER	22.52	226	0.07
INDENO(123CD	23.51	553	0.05

Channel B Results

Name	Time	Area	Conc.
NAPHTHALENE	4.99	14173	0.00
1-METHYLNAPHT	6.52	6252	0.08
2-METHYLNAPHT	6.95	15241	0.15
ACENAPTHENE	7.33	8495	0.01
FLUORENE	7.72	3319	0.00
PHENANTHRENE	8.93	16151	0.00
ANTHRACENE	9.80	0	0.00
FLUORANTHENE	11.05	0	0.00
PYRENE	11.80	0	0.00
P-TERPHENYL-D	13.77	129861	0.49
BENZO(A)ANTHR	14.70	0	0.00
CHRYSENE	15.64	7400	0.00
BENZO(B)FLUOR	18.00	36955	0.03
BENZO(K)FLUOR	19.08	25220	0.00
BENZO(A)PYREN	19.60	0	0.00
DIBENZ(AH)ANT	21.71	8991	0.02
BENZO(GHI)PER	22.63	68564	0.07
INDENO(123CD)	23.66	241774	0.77

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Sample Identification

CEF-103:SMW-10

Matrix: Water
pH:
Units: ug/l
Dilution Factor: 1.
Analysis Method: SW8310
Delivery Group: 209998
Instrument:
Vol Extracted: 900. ml
Extract Vol: 1.00 ml

Lab Sample ID: 00-A139649
Date Sampled:: 9/28/00
Date Received: 9/30/00
Analysis Date: 10/ 8/00
Analysis Time: 8:51
Sample QC Group: 445

Extraction Date: 10/ 3/00

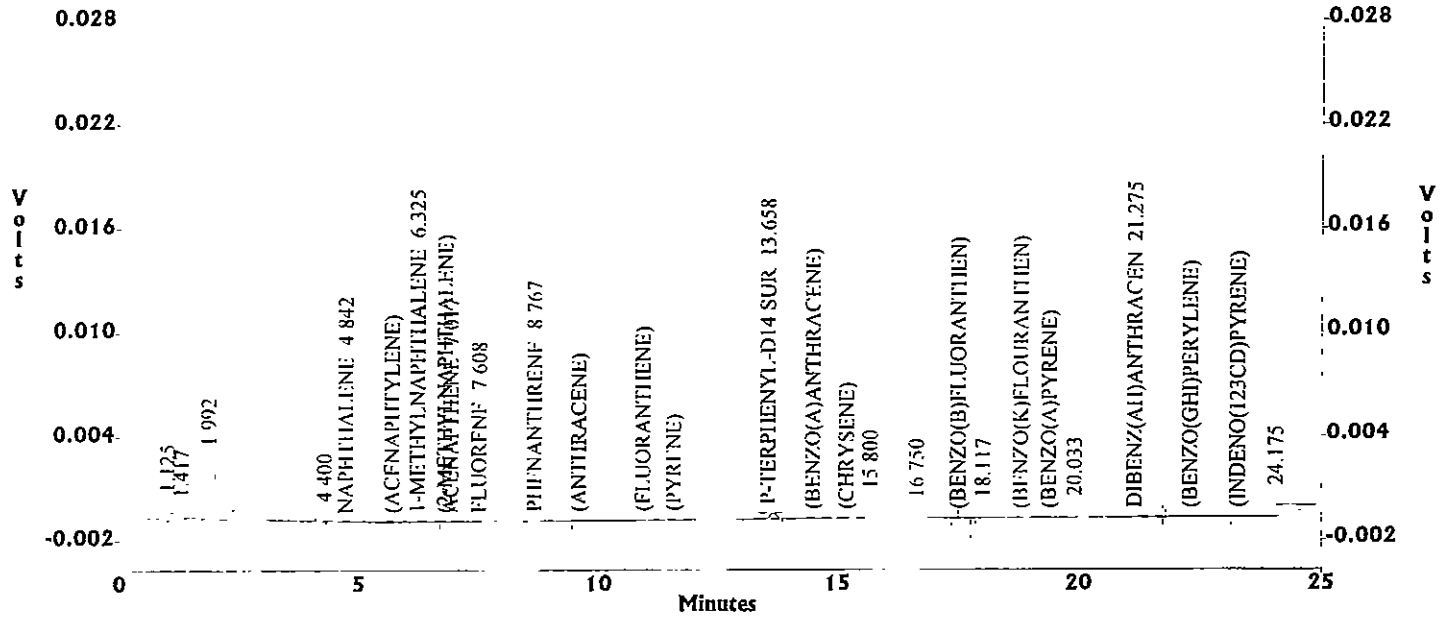
FORM I

CAS NUMBER	ANALYTE	CONCENTRATION	FLAG
91-20-3	Naphthalene	1.1	U
83-32-9	Acenaphthene	0.2	U
120-12-7	Anthracene	0.2	U
206-44-0	Fluoranthene	0.2	U
7782-41-4	Fluorene	0.2	U
129-00-0	Pyrene	0.2	U
56-55-3	Benzo(a)anthracene	0.05	U
50-32-8	Benzo(a)pyrene	0.11	U
205-99-2	Benzo(b)fluoranthene	0.2	U
207-08-9	Benzo(k)fluoranthene	0.19	U
218-01-9	Chrysene	0.17	U
53-70-3	Dibenzo(a,h)anthracene	0.2	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.4	U
208-96-8	Acenaphthylene	0.2	U
191-24-2	Benzo(g,h,i)perylene	0.2	U
85-01-8	Phenanthrene	0.2	U
90-12-0	1-Methylnapthalene	1	U
91-57-6	2-Methylnaphthalene	1	U

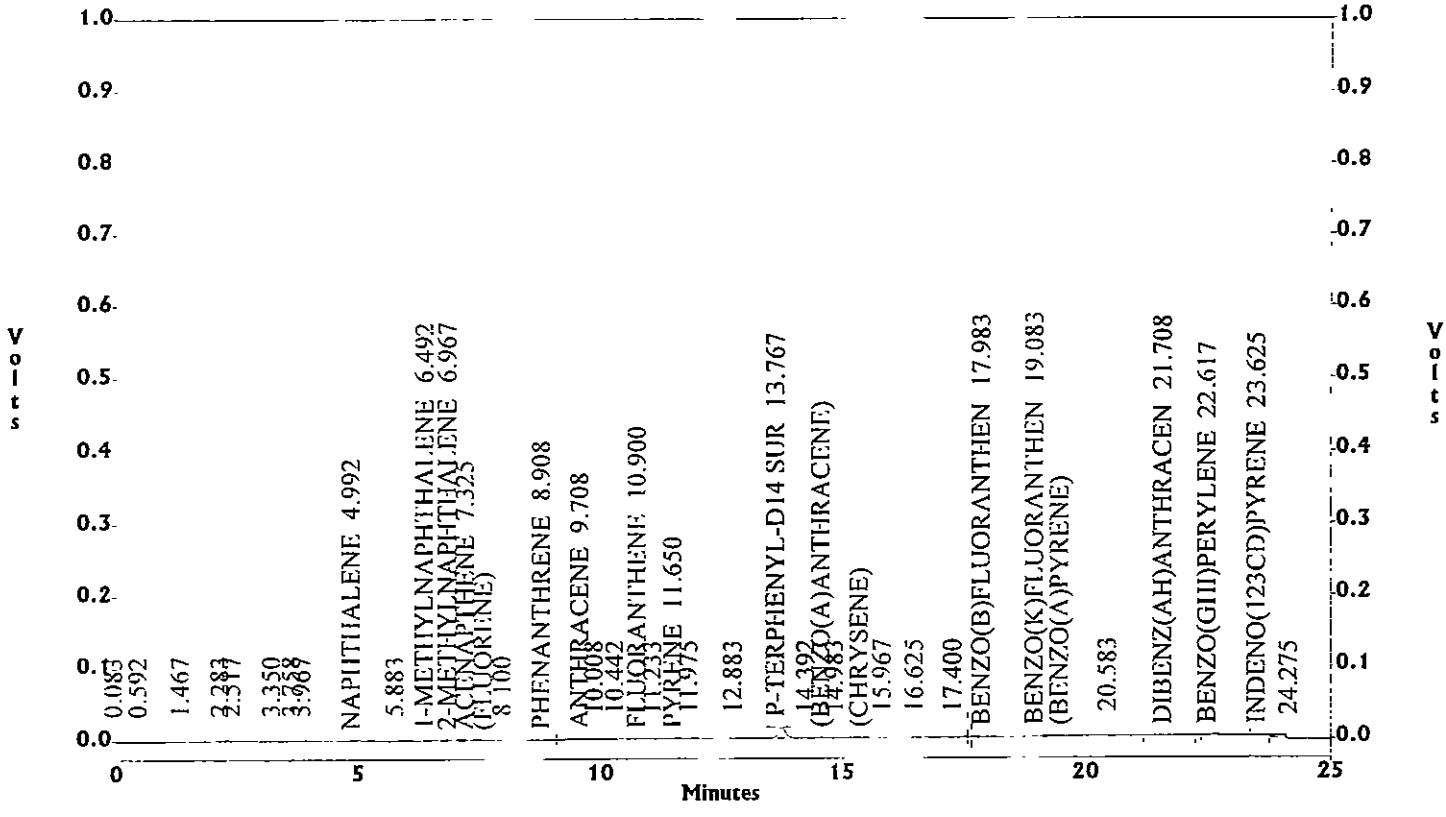
HPLC 1

File : c:\ezchromb\chrom\1008lc3.007
Method : c:\ezchromb\methods\lc1\13ph0918.met
Sample ID : 139649
Acquired : Oct 08, 2000 10:36:08
Printed : Oct 09, 2000 07:22:35
User : System

c:\ezchromb\chrom\1008lc3.007 -- Channel A



c:\ezchromb\chrom\1008lc3.007 -- Channel B



HPLC 1

File : c:\ezchromb\chrom\10081c3.007
Method : c:\ezchromb\methods\lc1\l3ph0918.met
Sample ID : 139649
Acquired : Oct 08, 2000 10:36:08
Printed : Oct 09, 2000 07:22:36
User : System

Channel A Results

Peak Name	Time	Area	Conc.
NAPHTHALENE	4.84	83	0.00
ACENAPHTYLENE	5.80	0	0.00
1-METHYLNAPHT	6.32	100	0.06
2-METHYLNAPHT	6.90	0	0.00
ACENAPTHENE	7.02	167	0.15
FLUORENE	7.61	179	0.00
PHENANTHRENE	8.77	744	0.00
ANTHRACENE	9.70	0	0.00
FLUORANTHENE	11.05	0	0.00
PYRENE	11.70	0	0.00
P-TERPHENYL-D	13.66	3423	0.61
BENZO(A)ANTHR	14.60	0	0.00
CHRYSENE	15.30	0	0.00
BENZO(B)FLUOR	17.60	0	0.00
BENZO(K)FLOUR	18.90	0	0.00
BENZO(A)PYREN	19.50	0	0.00
DIBENZ(AH)ANT	21.27	1197	0.49
BENZO(GHI)PER	22.42	0	0.00
INDENO(123CD)	23.40	0	0.00

Channel B Results

Name	Time	Area	Conc.
NAPHTHALENE	4.99	23604	0.00
1-METHYLNAPHT	6.49	11261	0.09
2-METHYLNAPHT	6.97	13287	0.15
ACENAPTHENE	7.32	9391	0.01
FLUORENE	7.70	0	0.00
PHENANTHRENE	8.91	11636	0.00
ANTHRACENE	9.71	26915	0.09
FLUORANTHENE	10.90	2326	0.00
PYRENE	11.65	1835	0.01
P-TERPHENYL-D	13.77	168581	0.64
BENZO(A)ANTHR	14.70	0	0.00
CHRYSENE	15.49	0	0.00
BENZO(B)FLUOR	17.98	6334	0.01
BENZO(K)FLUOR	19.08	8634	0.00
BENZO(A)PYREN	19.60	0	0.00
DIBENZ(AH)ANT	21.71	5540	0.02
BENZO(GHI)PER	22.62	14864	0.03
INDENO(123CD)	23.63	111790	0.35

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Sample Identification

CEF-103:SMW-11

Matrix: Water
pH:
Units: ug/l
Dilution Factor: 1.
Analysis Method: SW8310
Delivery Group: 209998
Instrument:
Vol Extracted: 950. ml
Extract Vol: 1.00 ml

Lab Sample ID: 00-A139650
Date Sampled:: 9/28/00
Date Received: 9/30/00
Analysis Date: 10/ 8/00
Analysis Time: 8:51
Sample QC Group: 445

Extraction Date: 10/ 3/00

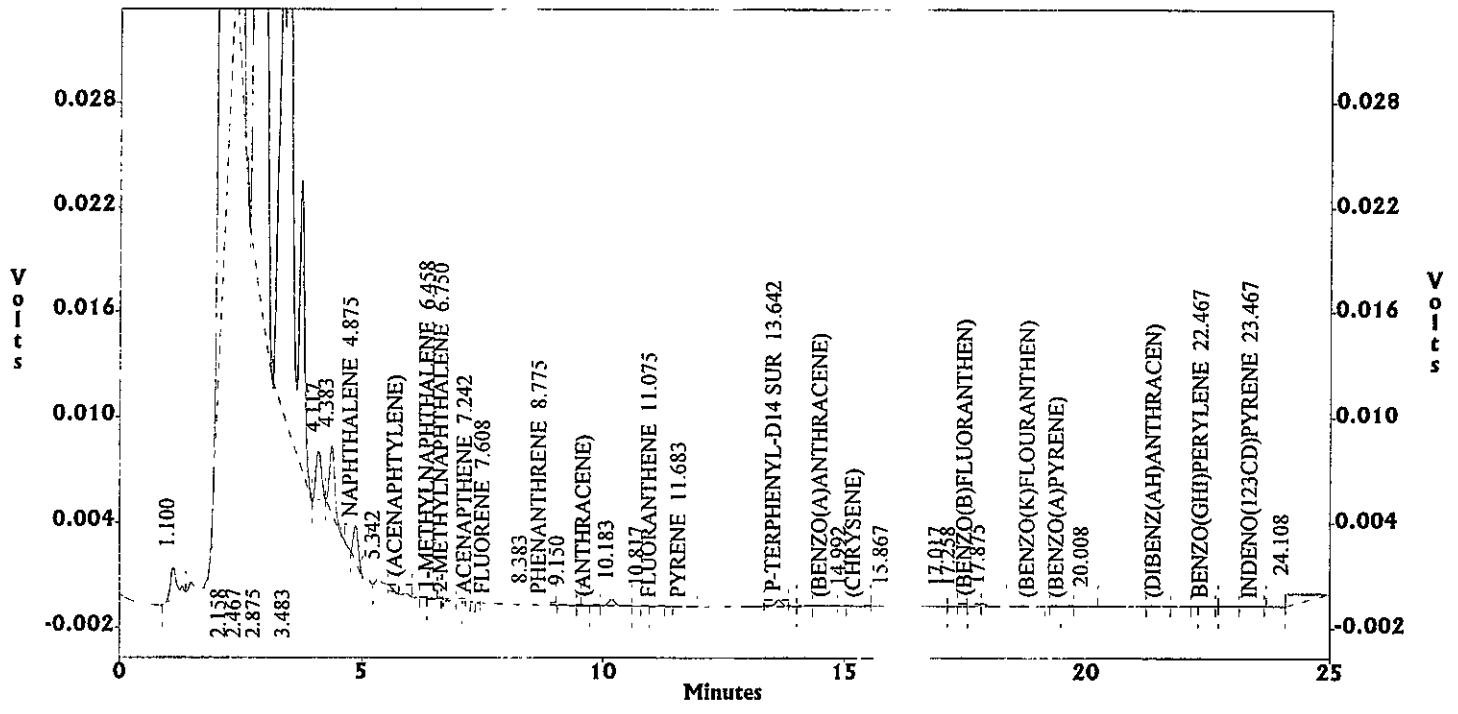
FORM I

CAS NUMBER	ANALYTE	CONCENTRATION	FLAG
91-20-3	Naphthalene	2.2	
83-32-9	Acenaphthene	0.2	U
120-12-7	Anthracene	0.2	U
206-44-0	Fluoranthene	0.2	U
7782-41-4	Fluorene	0.2	U
129-00-0	Pyrene	0.2	U
56-55-3	Benzo(a)anthracene	0.05	U
50-32-8	Benzo(a)pyrene	0.11	U
205-99-2	Benzo(b)fluoranthene	0.19	U
207-08-9	Benzo(k)fluoranthene	0.18	U
218-01-9	Chrysene	0.16	U
53-70-3	Dibenzo(a,h)anthracene	0.2	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.4	U
208-96-8	Acenaphthylene	0.2	U
191-24-2	Benzo(g,h,i)perylene	0.2	U
85-01-8	Phenanthrene	0.2	U
90-12-0	1-Methylnapthalene	1	U
91-57-6	2-Methylnaphthalene	1	U

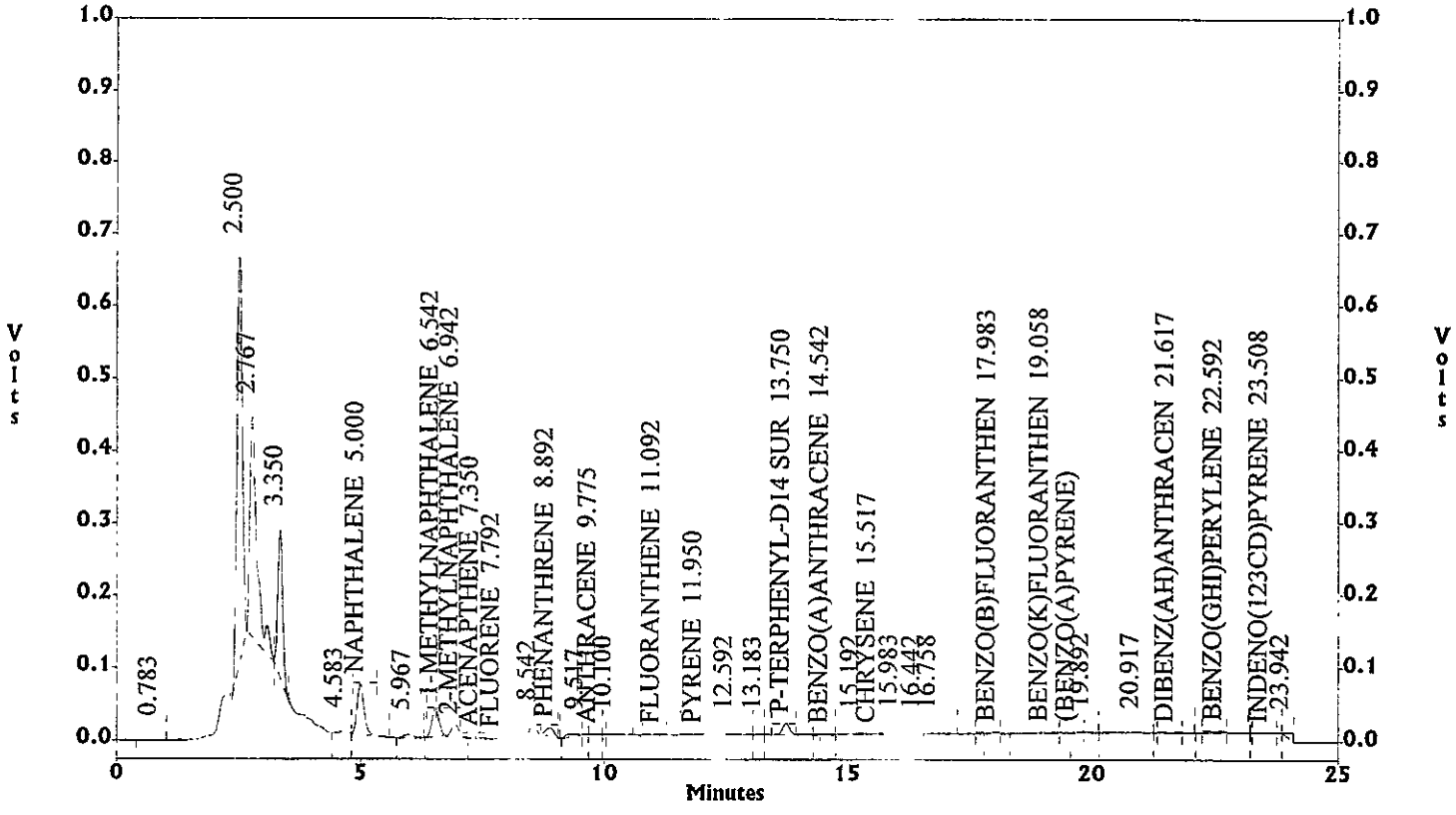
HPLC 1

File : c:\ezchromb\chrom\1008lc3.008
Method : c:\ezchromb\methods\lc1\l3ph0918.met
Sample ID : 139650
Acquired : Oct 08, 2000 11:02:20
Printed : Oct 10, 2000 07:18:24
User : System

c:\ezchromb\chrom\1008lc3.008 -- Channel A



c:\ezchromb\chrom\1008lc3.008 -- Channel B



HPLC 1

File : c:\ezchromb\chrom\1008lc3.008
Method : c:\ezchromb\methods\lc1\13ph0918.met
Sample ID : 139650
Acquired : Oct 08, 2000 11:02:20
Printed : Oct 10, 2000 07:18:25
User : System

Channel A Results

Peak Name	Time	Area	Conc.
NAPHTHALENE	4.88	14856	7.63
ACENAPHTYLENE	5.80	0	0.00
1-METHYLNAPHT	6.46	315	0.24
2-METHYLNAPHT	6.75	731	0.45
ACENAPTHENE	7.24	835	1.19 NC KC
FLUORENE	7.61	1277	0.06
PHENANTHRENE	8.77	1419	0.00
ANTHRACENE	9.70	0	0.00
FLUORANTHENE	11.07	173	0.00
PYRENE	11.68	202	0.00
P-TERPHENYL-D	13.64	3648	0.65
BENZO(A)ANTHR	14.60	0	0.00
CHRYSENE	15.30	0	0.00
BENZO(B)FLUOR	17.60	0	0.00
BENZO(K)FLOUR	18.90	0	0.00
BENZO(A)PYREN	19.50	0	0.00
DIBENZ(AH)ANT	21.50	0	0.00
BENZO(GHI)PER	22.47	131	0.05
INDENO(123CD)	23.47	190	0.03

Channel B Results

Name	Time	Area	Conc.
NAPHTHALENE	5.00	693112	2.09
1-METHYLNAPHT	6.54	420323	0.74
2-METHYLNAPHT	6.94	176677	0.42
ACENAPTHENE	7.35	24610	0.02
FLUORENE	7.79	9470	0.00
PHENANTHRENE	8.89	134690	0.39
ANTHRACENE	9.77	3120	0.00
FLUORANTHENE	11.09	9322	0.00
PYRENE	11.95	16485	0.02
P-TERPHENYL-D	13.75	146702	0.56
BENZO(A)ANTHR	14.54	11403	0.01
CHRYSENE	15.52	9397	0.00
BENZO(B)FLUOR	17.98	16354	0.02
BENZO(K)FLUOR	19.06	14437	0.00
BENZO(A)PYREN	19.60	0	0.00
DIBENZ(AH)ANT	21.62	6058	0.02
BENZO(GHI)PER	22.59	34881	0.04
INDENO(123CD)	23.51	3057	0.01

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Sample Identification

CEF-103:029-DUP

Matrix: Water
pH:
Units: ug/l
Dilution Factor: 1.
Analysis Method: SW8310
Delivery Group: 209998
Instrument:
Vol Extracted: 960. ml
Extract Vol: 1.00 ml

Lab Sample ID: 00-A139651
Date Sampled:: 9/28/00
Date Received: 9/30/00
Analysis Date: 10/ 8/00
Analysis Time: 8:51
Sample QC Group: 445

Extraction Date: 10/ 3/00

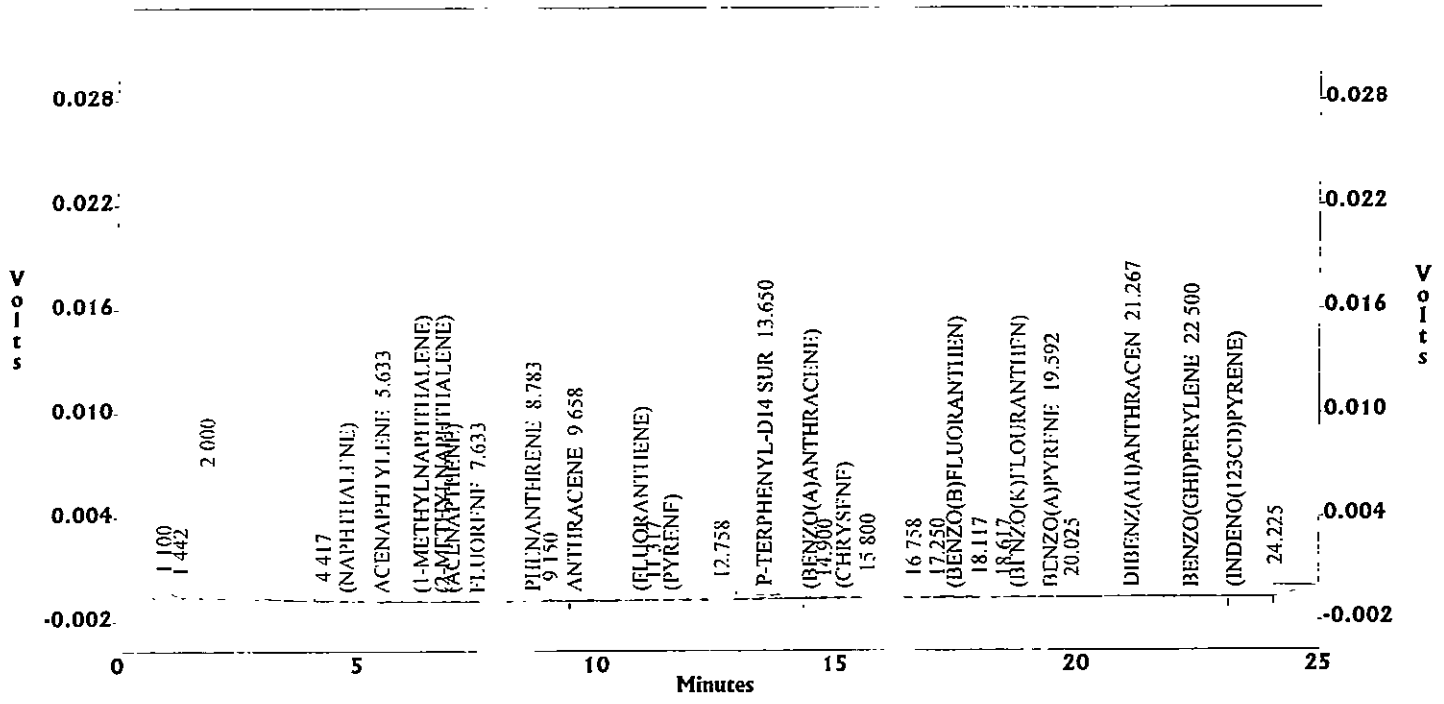
FORM I

CAS NUMBER	ANALYTE	CONCENTRATION	FLAG
91-20-3	Naphthalene	1.04	U
83-32-9	Acenaphthene	0.2	U
120-12-7	Anthracene	0.2	U
206-44-0	Fluoranthene	0.2	U
7782-41-4	Fluorene	0.2	U
129-00-0	Pyrene	0.2	U
56-55-3	Benzo(a)anthracene	0.05	U
50-32-8	Benzo(a)pyrene	0.1	U
205-99-2	Benzo(b)fluoranthene	0.19	U
207-08-9	Benzo(k)fluoranthene	0.18	U
218-01-9	Chrysene	0.16	U
53-70-3	Dibenzo(a,h)anthracene	0.2	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.4	U
208-96-8	Acenaphthylene	0.2	U
191-24-2	Benzo(g,h,i)perylene	0.2	U
85-01-8	Phenanthrene	0.2	U
90-12-0	1-Methylnapthalene	1	U
91-57-6	2-Methylnaphthalene	1	U

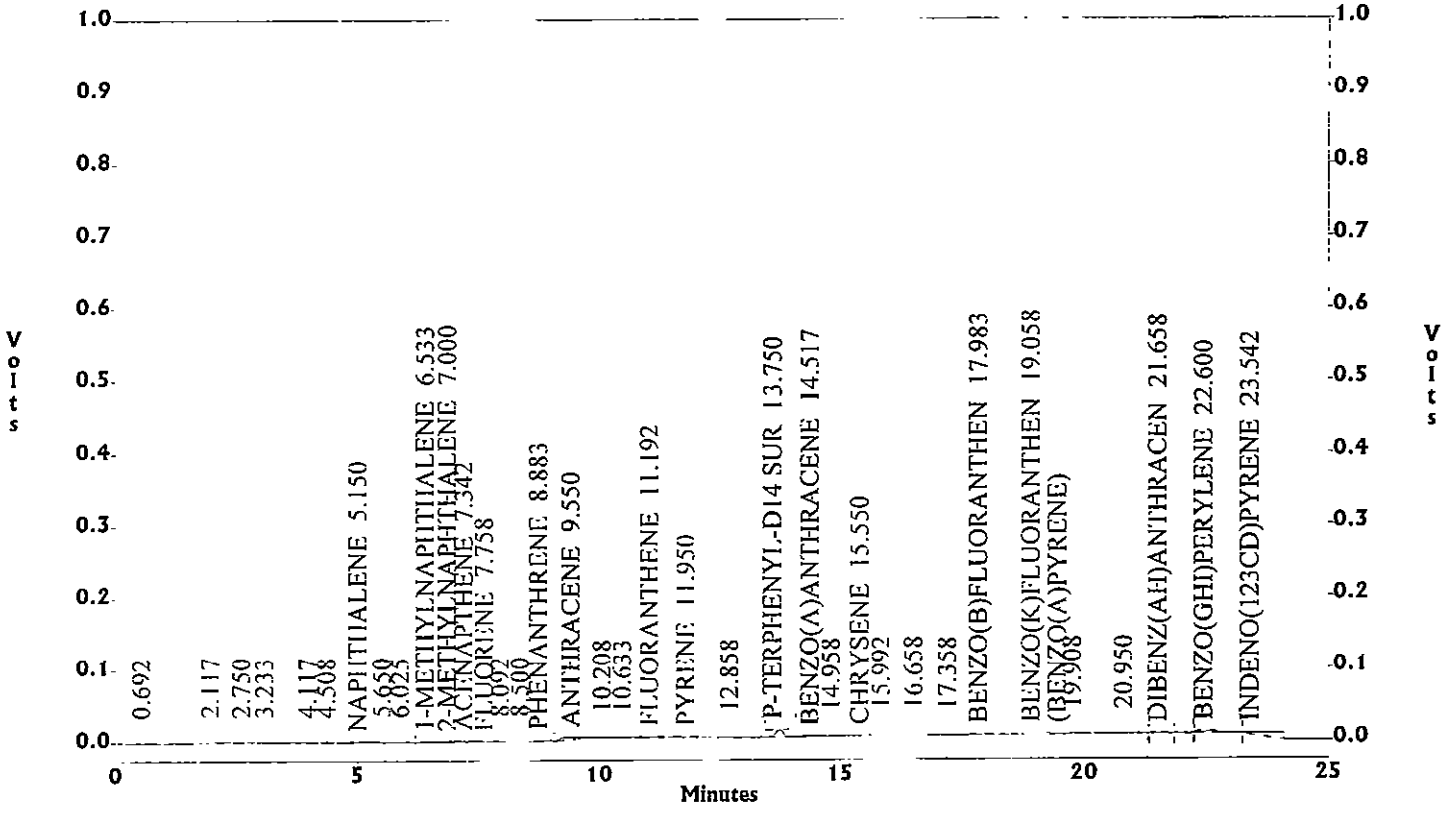
HPLC 1

File : c:\ezchromb\chrom\1008lc3.009
Method : c:\ezchromb\methods\lc1\13ph09?8.met
Sample ID : 139651
Acquired : Oct 08, 2000 11:28:33
Printed : Oct 09, 2000 07:22:39
User : System

c:\ezchromb\chrom\1008lc3.009 -- Channel A



c:\ezchromb\chrom\1008lc3.009 -- Channel B



HPLC 1

File : c:\ezchromb\chrom\10081c3.009
Method : c:\ezchromb\methods\lc1\l3ph0918.met
Sample ID : 139651
Acquired : Oct 08, 2000 11:28:33
Printed : Oct 09, 2000 07:22:40
User : System

Channel A Results

Peak Name	Time	Area	Conc.
NAPHTHALENE	4.90	0	0.00
ACENAPHTYLENE	5.63	168	0.00
1-METHYLNAPHT	6.45	0	0.00
2-METHYLNAPHT	6.90	0	0.00
ACENAPTHENE	7.10	0	0.00
FLUORENE	7.63	150	0.00
PHENANTHRENE	8.78	962	0.00
ANTHRACENE	9.66	749	0.00
FLUORANTHENE	11.05	0	0.00
PYRENE	11.70	0	0.00
P-TERPHENYL-D	13.65	2632	0.47
BENZO(A)ANTHR	14.60	0	0.00
CHRYSENE	15.30	0	0.00
BENZO(B)FLUOR	17.60	0	0.00
BENZO(K)FLOUR	18.90	0	0.00
BENZO(A)PYREN	19.59	373	0.05
DIBENZ(AH)ANT	21.27	979	0.41
BENZO(GHI)PER	22.50	220	0.06
INDENO(123CD)	23.40	0	0.00

Channel B Results

Name	Time	Area	Conc.
NAPHTHALENE	5.15	13828	0.00
1-METHYLNAPHT	6.53	7353	0.08
2-METHYLNAPHT	7.00	14807	0.15
ACENAPTHENE	7.34	12117	0.01
FLUORENE	7.76	3699	0.00
PHENANTHRENE	8.88	13256	0.00
ANTHRACENE	9.55	101748	0.73
FLUORANTHENE	11.19	17654	0.00
PYRENE	11.95	18747	0.03
P-TERPHENYL-D	13.75	104485	0.39
BENZO(A)ANTHR	14.52	4386	0.01
CHRYSENE	15.55	15848	0.01
BENZO(B)FLUOR	17.98	17221	0.02
BENZO(K)FLUOR	19.06	21786	0.00
BENZO(A)PYREN	19.60	0	0.00
DIBENZ(AH)ANT	21.66	9516	0.02
BENZO(GHI)PER	22.60	38852	0.04
INDENO(123CD)	23.54	257510	0.82

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Sample Identification

CEF-103:029-EQB

Matrix: Water
pH:
Units: ug/l
Dilution Factor: 1.
Analysis Method: SW8310
Delivery Group: 209998
Instrument:
Vol Extracted: 980. ml
Extract Vol: 1.00 ml

Lab Sample ID: 00-A139652
Date Sampled:: 9/28/00
Date Received: 9/30/00
Analysis Date: 10/ 8/00
Analysis Time: 8:51
Sample QC Group: 445

Extraction Date: 10/ 3/00

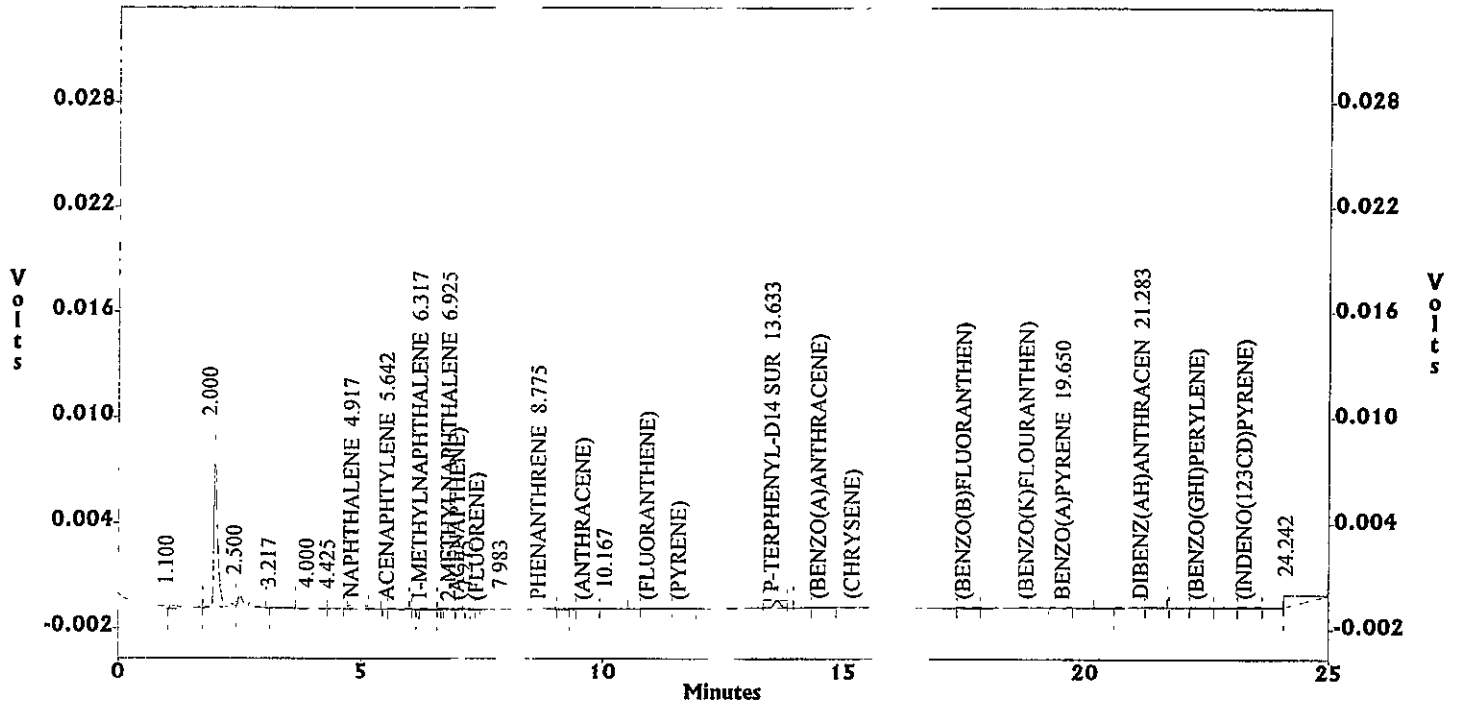
FORM I

CAS NUMBER	ANALYTE	CONCENTRATION	FLAG
91-20-3	Naphthalene	1.02	U
83-32-9	Acenaphthene	0.2	U
120-12-7	Anthracene	0.2	U
206-44-0	Fluoranthene	0.2	U
7782-41-4	Fluorene	0.2	U
129-00-0	Pyrene	0.2	U
56-55-3	Benzo(a)anthracene	0.05	U
50-32-8	Benzo(a)pyrene	0.1	U
205-99-2	Benzo(b)fluoranthene	0.18	U
207-08-9	Benzo(k)fluoranthene	0.17	U
218-01-9	Chrysene	0.15	U
53-70-3	Dibenzo(a,h)anthracene	0.2	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.4	U
208-96-8	Acenaphthylene	0.4	U
191-24-2	Benzo(g,h,i)perylene	0.2	U
85-01-8	Phenanthrene	0.2	U
90-12-0	1-Methylnapthalene	1	U
91-57-6	2-Methylnaphthalene	1	U

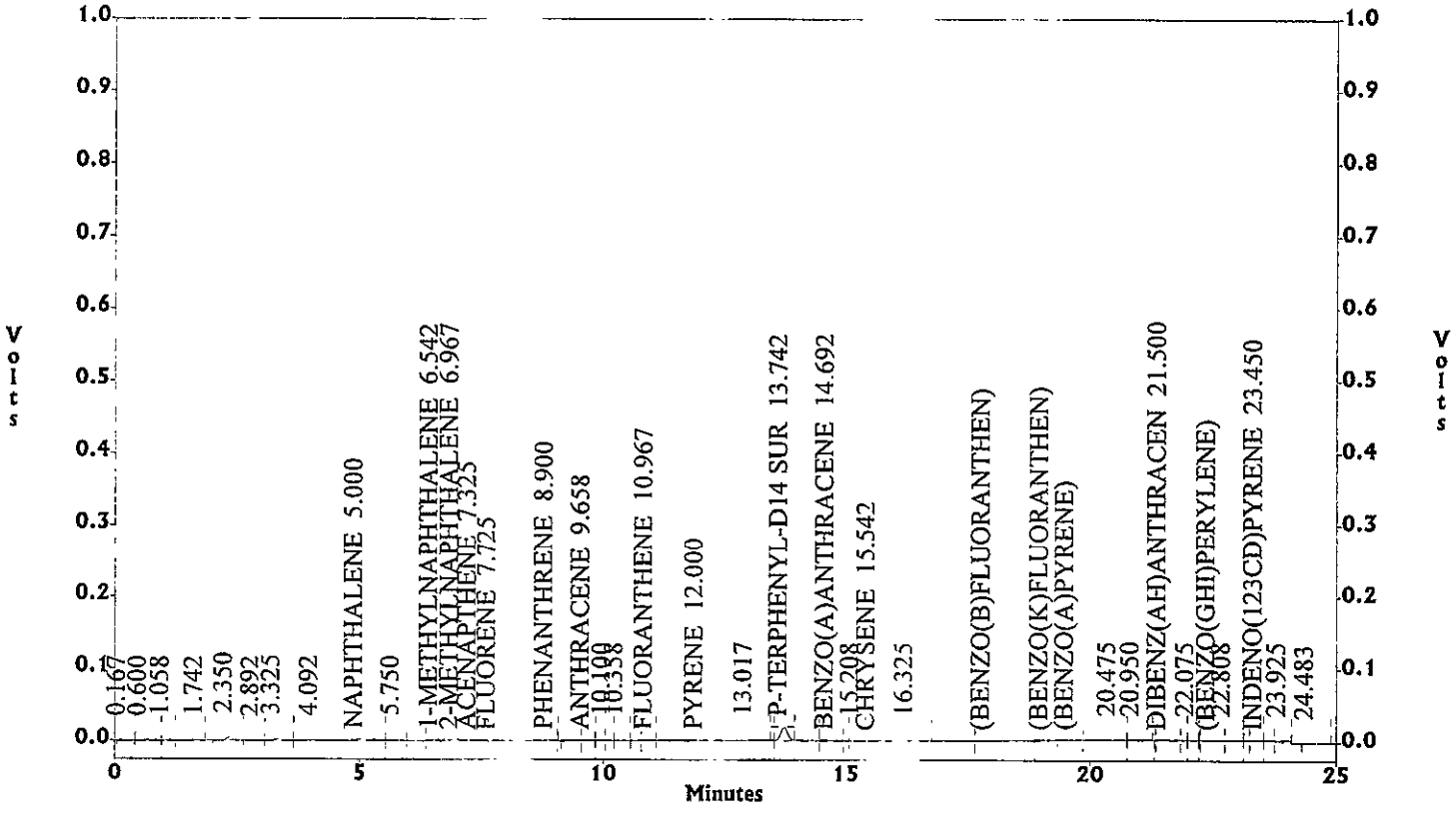
HPLC 1

File : c:\ezchromb\chrom\1008lc3.010
Method : c:\ezchromb\methods\lc1\13ph0918.met
Sample ID : 139652
Acquired : Oct 08, 2000 11:54:45
Printed : Oct 09, 2000 07:22:42
User : System

c:\ezchromb\chrom\1008lc3.010 -- Channel A



c:\ezchromb\chrom\1008lc3.010 -- Channel B



HPLC 1

File : c:\ezchromb\chrom\10081c3.010
Method : c:\ezchromb\methods\1c1\13ph0918.met
Sample ID : 139652
Acquired : Oct 08, 2000 11:54:45
Printed : Oct 09, 2000 07:22:42
User : System

Channel A Results

Peak Name	Time	Area	Conc.
NAPHTHALENE	4.92	1525	0.65
ACENAPHTYLENE	5.64	294	0.09
1-METHYLNAPHT	6.32	160	0.11
2-METHYLNAPHT	6.93	301	0.19
ACENAPTHENE	7.10	0	0.00
FLUORENE	7.50	0	0.00
PHENANTHRENE	8.77	636	0.00
ANTHRACENE	9.70	0	0.00
FLUORANTHENE	11.05	0	0.00
PYRENE	11.70	0	0.00
P-TERPHENYL-D	13.63	4451	0.80
BENZO(A)ANTHR	14.60	0	0.00
CHRYSENE	15.30	0	0.00
BENZO(B)FLUOR	17.60	0	0.00
BENZO(K)FLOUR	18.90	0	0.00
BENZO(A)PYREN	19.65	382	0.05
DIBENZ(AH)ANT	21.28	699	0.31
BENZO(GHI)PER	22.42	0	0.00
INDENO(123CD)	23.40	0	0.00

Channel B Results

Name	Time	Area	Conc.
NAPHTHALENE	5.00	32609	0.02
1-METHYLNAPHT	6.54	15735	0.09
2-METHYLNAPHT	6.97	23968	0.16
ACENAPTHENE	7.32	6522	0.00
FLUORENE	7.72	2701	0.00
PHENANTHRENE	8.90	18189	0.00
ANTHRACENE	9.66	15141	0.00
FLUORANTHENE	10.97	4780	0.00
PYRENE	12.00	29096	0.04
P-TERPHENYL-D	13.74	194674	0.75
BENZO(A)ANTHR	14.69	11867	0.01
CHRYSENE	15.54	7856	0.00
BENZO(B)FLUOR	17.90	0	0.00
BENZO(K)FLUOR	19.08	0	0.00
BENZO(A)PYREN	19.60	0	0.00
DIBENZ(AH)ANT	21.50	1797	0.01
BENZO(GHI)PER	22.50	0	0.00
INDENO(123CD)	23.45	1033	0.00

6C

8310 PAH INITIAL CALIBRATION

Lab Name : Test America **Insturment ID:** HPLC 3

SDG # 209998 **Calibration Date :** 09/18/00

UV CHANNEL

.05 ppm initial cal	RF=1	0918lc3.002	1.0 ppm 1,2 m-naph	RF=5	0918lc3.015
.1 ppm initial cal	RF=2	0918lc3.003	2.5 ppm 1,2 m-naph	RF=6	0918lc3.016
.25 ppm initial cal	RF=3	0918lc3.004	5.0 ppm 1,2 m-naph	RF=7	0918lc3.017
.5 ppm initial cal	RF=4	0918lc3.005	10.0 ppm 1,2 m-naph	RF=8	0918lc3.018
1.0 ppm initial cal	RF=5	0918lc3.006	20.0 ppm 1,2 m-naph	RF=9	0918lc3.019
2.5 ppm initial cal	RF=6	0918lc3.007			
5.0 ppm initial cal	RF=7	0918lc3.008			
10. ppm initial cal	RF=8	0918lc3.009			
20. ppm initial cal	RF=9	0918lc3.010			

COMPOUND	RF 1 0.05	RF 2 0.1	RF 3 0 25	RF 4 0.5	RF 5 1	RF 6 2.5	RF 7 5	RF 8 10	RF 9 20	RF % RSD	Average RF
Napthalene	2360	2600	2600	2162	2237	2230	2172	1.85E+03	1.92E+03	11.56	2.24E+03
Acenapthylene	1820	1970	1596	1576	1490	1484	1462	1.26E+03	1.31E+03	14.482	1.55E+03
1-Methyl-naphthalene					1116	1127	1184	1.20E+03	1 16E+03	3.56	1.16E+03
2-Methyl-naphthalene					1539	1539	1575	1.65E+03	1.59E+03	5.58	1.58E+03
Acenapthene	1060	780	992	730	703	737	685	6.26E+02	6.47E+02	19.5	7.73E+02
Flourene	8860	10190	10324	8332	8364	9120	8999	7.81E+03	8.14E+03	9.8	8.90E+03
Phenanthrene	28020	30580	31920	26538	26868	28706	28647	2.45E+04	2.55E+04	8.5	2.79E+04
Anthracene	65660	74830	76164	63878	64534	69010	68470	5.78E+04	5.87E+04	9.5	6.66E+04
Flouranthene	7440	7630	7320	6204	6253	6674	6671	5.72E+03	5.98E+03	10.2	6.65E+03
Pyrene	6820	6210	6156	4900	5060	5424	5442	4.59E+03	4.81E+03	13.7	5.49E+03
P-Terphenyl-d14 (S	4060	6700	6860	5187	5724	5248	5581			16.9	5.62E+03
Benzo(a)anthracene	14860	15790	15788	12898	13112	14117	14178	1.19E+04	1 25E+04	8.08	1.39E+04
Chrysene	19020	21400	21632	17694	17969	19271	19368	1.60E+04	1.67E+04	7.86	1.88E+04
Benzo(b)flouranthen	15000	17730	17764	14480	15025	16172	16266	1.35E+04	1.42E+04	8.21	1.56E+04
Benzo(k)flouranthen	12960	14880	15212	12716	12888	13887	14006	1.18E+04	1.23E+04	7.2	1 34E+04
Benzo(a)pyrene	11900	14800	15272	12450	12954	14021	14198	1.22E+04	1.28E+04	9.16	1.34E+04
Dibenz(ah)anthrace	2100	2640	1768	2012	2662	2673	3372			26.5	2.46E+03
Benzo(ghi)Perylene	4440	5910	6024	5262	5370	5714	5822			9.92	5.51E+03
Indeno(123cd)pyren	20940	18580	17772	15954	16088	17302	17555	1.46E+04	1.53E+04	9.5	1.71E+04

AVERAGE RF	1.20E+04
AVERAGE RF % RSD	11.037

6C

8310 PAH INITIAL CALIBRATION

Lab Name : Test America **Insturment ID:** HPLC 3

SDG # 209998 **Calibration Date** 09/18/00

FLOURECENSE CHANNEL

.05 ppm initial cal	RF=1	0918lc3.002	1.0 ppm 1,2 m-naph	RF=5	0918lc3.015
.1 ppm initial cal	RF=2	0918lc3.003	2.5 ppm 1,2 m-naph	RF=6	0918lc3.016
.25 ppm initial cal	RF=3	0918lc3.004	5.0 ppm 1,2 m-naph	RF=7	0918lc3.017
.5 ppm initial cal	RF=4	0918lc3.005	10.0 ppm 1,2 m-naph	RF=8	0918lc3.018
1.0 ppm initial cal	RF=5	0918lc3.006	20.0 ppm 1,2 m-naph	RF=9	0918lc3.019
2.5 ppm initial cal	RF=6	0918lc3.007			
5.0 ppm initial cal	RF=7	0918lc3.008			
10. ppm initial cal	RF=8	0918lc3.009			
20. ppm initial cal	RF=9	0918lc3.010			

COMPOUND	RF 1	RF 2	RF 3	RF 4	RF 5	RF 6	RF 7	RF 8	RF 9	RF %	Average RF
	0.05	0.1	0 25	0.5	1	2.5	5	10	20	RSD	
Napthalene	312100	3822680	394036	341836	346863	368536	358832	3 08E+05	3.21E+05	8.800	7 30E+05
1-Methyl-naphthalene					526299	571892	618331	6.30E+05	5.51E+05	9.300	5.79E+05
2-Methyl-naphthalene					496029	536212	555924	5.86E+05	5.26E+05	6.760	5.40E+05
Acenapthene	1129140	1334650	1353420	1E+06	1E+06	1229601	1198027	1.03E+06		7.540	1 20E+06
Flourene	404460	460640	462352	383126	383750	407832	388403	3.49E+05	3.61E+05	9.850	4 00E+05
Phenanthrene	400600	365070	389492	292112	301067	316779	313956	2.68E+05	2.78E+05	14.910	3.25E+05
Anthracene	312300	142170	168384	130630	126531	136162	134318	1.13E+05	1.16E+05	12.670	1 53E+05
Flouranthene	257120	302580	245632	194596	215244	221973	218073	1.86E+05	1.94E+05	16.400	2.26E+05
Pyrene	827040	812590	895528	733508	746625	787176	796366	6 75E+05	6.32E+05	10.470	7.67E+05
P-Terphenyl-d14	234110	293340	343213	254887	284076	251271	257337	2.50E+05	2.65E+05	4.070	2.70E+05
Benzo(a)anthrac	2511740	2835070	2932696	2E+06	2E+06	2624645	2369504			8.196	2.59E+06
Chrysene	4065040	4753480	4684264	4E+06	4E+06	4171593				9.103	4.24E+06
Benzo(b)flourant	1256300	1486020	1573048	1E+06	1E+06	1340338	1343043			9.400	1 36E+06
Benzo(k)flouranth	8916720	1E+07	1E+07	9E+06	9E+06	6217763				9.720	8 84E+06
Benzo(a)pyrene	3032440	3408630	3474764	3E+06	3E+06	3112834				8.428	3 13E+06
Dibenz(ah)anthra	1064140	1316360	1350100	1E+06	1E+06	1189548	1193476			9.226	1.19E+06
Benzo(ghi)Peryle	1339420	1450420	1489432	1E+06	1E+06	1342518	1363323			7.430	1 35E+06
Indeno(123cd)pyr	338700	358060	381036	296722	298438	316759				10.200	3 32E+05

AVERAGE RF	1.57E+06
AVERAGE RF % RSD	9.582

8310 PAH CALCULATION SHEET

Lab Name : Test America **Insturment ID:** HPLC 3

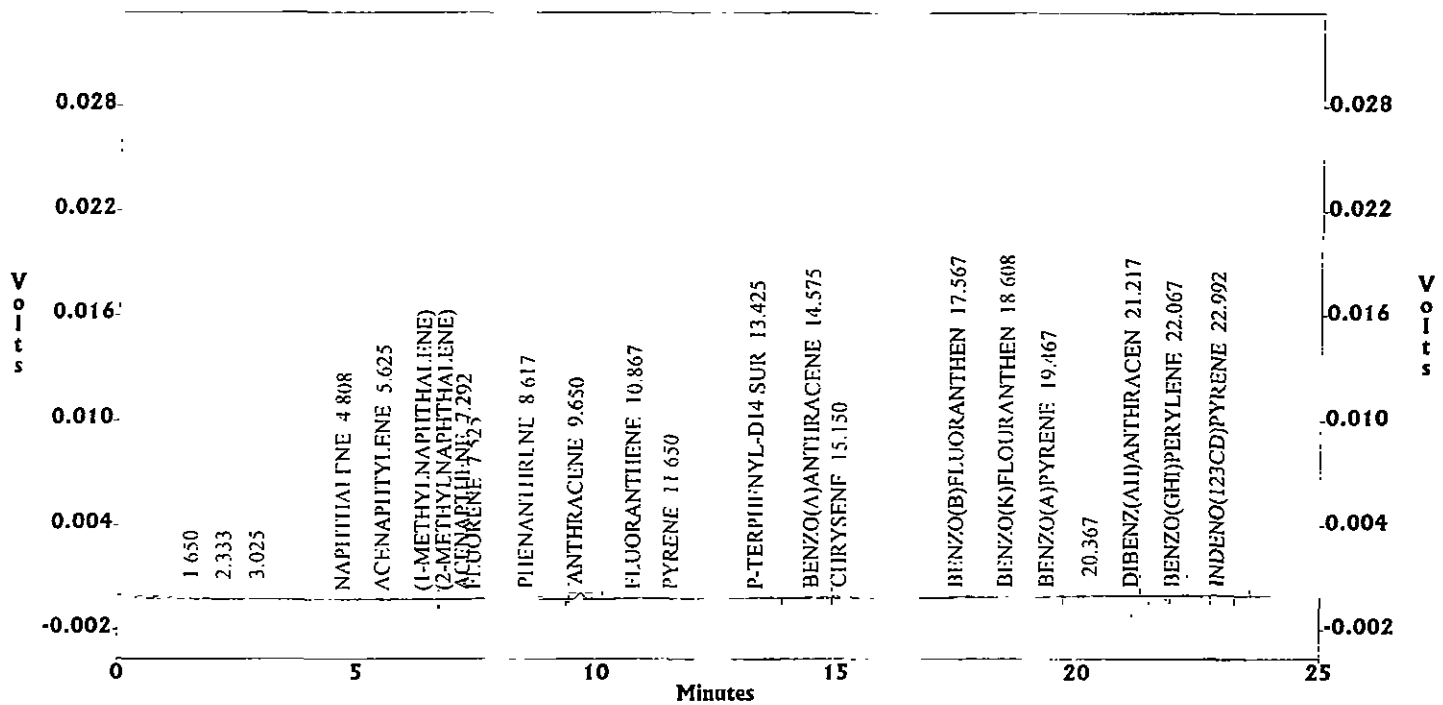
SDG # 209998 **Calibration Date :** 09/18/00

UV CHANNEL			R^2
Napthalene	Linear Fit :	Amount = 0.000524231 X Area - 0.153250	0.998
Acenapthylene	Linear Fit :	Amount = 0.000767821 X Area - 0.13684	0.998
1-Methyl-naphthalene	Linear Fit :	Amount = 0.000858905 X Area - 0.0266422	0.998
2-Methyl-naphthalene	Linear Fit :	Amount = 0.000624963 X Area - 0.00261427	0.998
Acenapthene	Linear Fit :	Amount = 0.00155944 X Area - 0.114265	0.998
Flourene	Linear Fit :	Amount = 0.000123694 X Area - 0.0933907	0.998
Phenanthrene	Linear Fit :	Amount = 3.95486e-005 X Area - 0.110489	0.998
Anthracene	Linear Fit :	Amount = 1.70264e-005 X Area - 0.113166	0.998
Flouranthene	Linear Fit :	Amount = 0.000168515 X Area - 0.0993025	0.998
Pyrene	Linear Fit :	Amount = 0.000209438 X Area - 0.112482	0.998
P-Terphenyl-d14 (Surr)	Linear Fit :	Amount = 0.000181481 X Area - 0.00955066	0.998
Benzo(a)anthracene	Linear Fit :	Amount = 7.04928e-005 X Area + 0.0134226	0.998
Chrysene	Linear Fit :	Amount = 5.16555e-005 X Area + 0.00992993	0.998
Benzo(b)flouranthene	Linear Fit :	Amount = 6.13782e-005 X Area + .0189121	0.998
Benzo(k)flouranthene	Linear Fit :	Amount = 7.13164e-005 X Area + 0.0190715	0.998
Benzo(a)pyrene	Linear Fit :	Amount = 7.02936e-005 X Area +.0621985	0.998
Dibenz(ah)anthracene	Linear Fit :	Amount = 0.000365789 X Area + 0.0552831	0.998
Benzo(ghi)Perylene	Linear Fit :	Amount = 0.000171476 X Area + 0.0270747	0.998
Indeno(123cd)pyrene	Linear Fit :	Amount = 5.69335e-005 X Area + 0.0216094	0.998
FLOURECENSE CHANNEL			
Napthalene	Linear Fit :	Amount = 3.13118e-006 X Area - 0.0782191	0.998
1-Methyl-naphthalene	Linear Fit :	Amount = 1.57624e-006 X Area + 0.114711	0.998
2-Methyl-naphthalene	Linear Fit :	Amount = 1.70013e-006 X Area + 0.123679	0.998
Acenapthene	Linear Fit :	Amount = 8.31863e-007 X Area - 0.00188157	0.998
Flourene	Linear Fit :	Amount = 2.78646e-006 X Area - 0.0834105	0.998
Phenanthrene	Linear Fit :	Amount = 3.61096e-006 X Area - 0.0919407	0.998
Anthracene	Linear Fit :	Amount = 8.66325E-006 X Area - 0.146909	0.998
Flouranthene	Linear Fit :	Amount = 5.18917e-006X Area - 0.112118	0.998
Pyrene	Linear Fit :	Amount = 1.5559e-006 X Area - 0.195071	0.998
P-Terphenyl-d14 (Surr)	Linear Fit :	Amount = 3.80453e-006 X Area + 0.0162871	0.998
Benzo(a)anthracene	Linear Fit :	Amount = 3.83865e-007 X Area + 0.00411324	0.998
Chrysene	Linear Fit :	Amount = 2.41532e-007 X Area + 0.00143638	0.998
Benzo(b)flouranthene	Linear Fit :	Amount = 7.45747e-007 X Area +0.00331653	0.998
Benzo(k)flouranthene	Linear Fit :	Amount = 1.17276e-007 X Area - 0.0194514	0.998
Benzo(a)pyrene	Linear Fit :	Amount = 3.22809e-007 X Area + 0.00938838	0.998
Dibenz(ah)anthracene	Linear Fit :	Amount = 8.37336e-007 X Area + 0.0123983	0.998
Benzo(ghi)Perylene	Linear Fit :	Amount = 7.34754e-007 X Area + 0.0150153	0.998
Indeno(123cd)pyrene	Linear Fit :	Amount = 3.18439e-006 X Area - 0.0028383	0.998

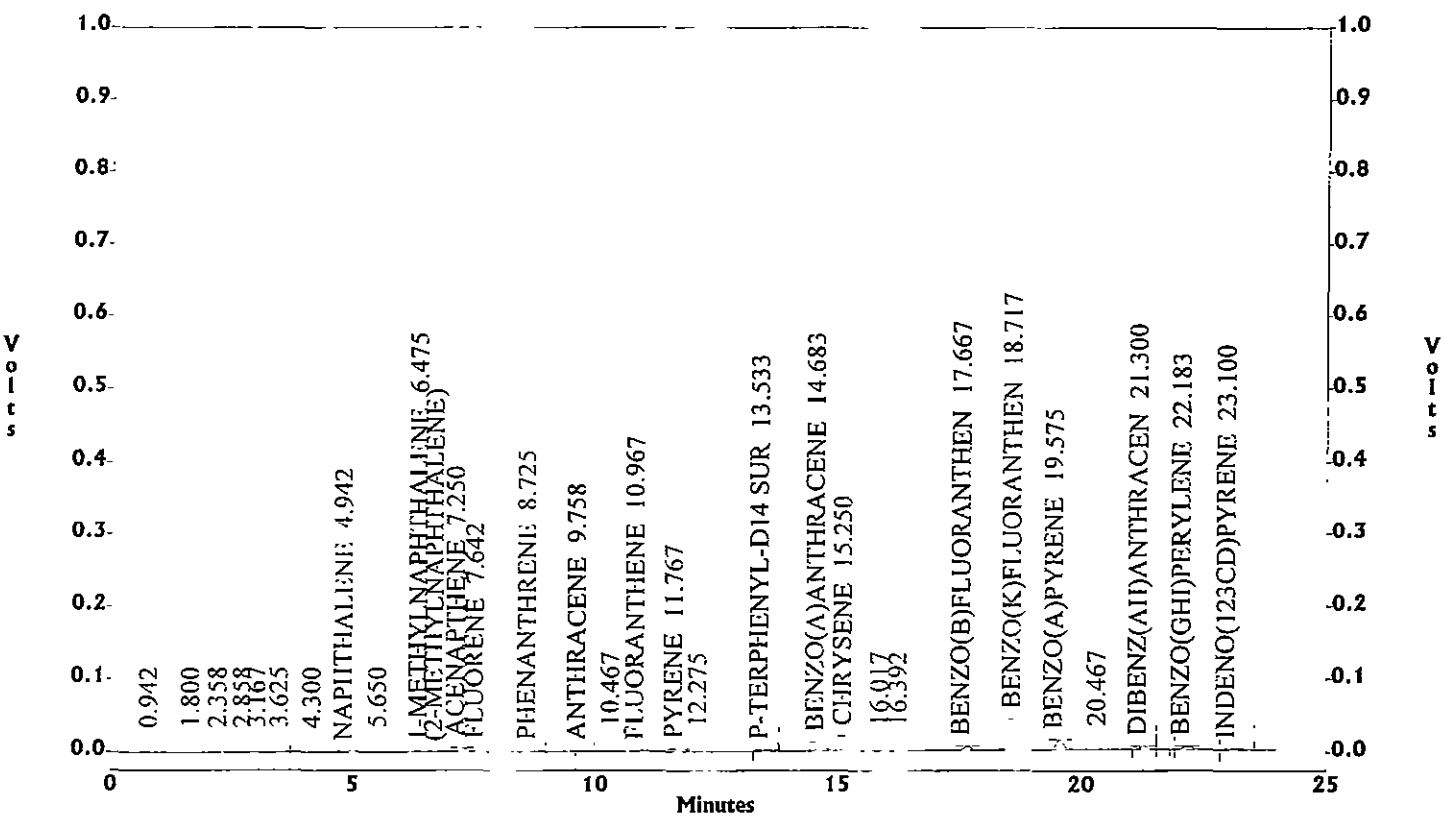
HPLC 1

File : c:\ezchromb\chrom\C9181c3.002
Method : c:\ezchromb\methods\lc1\l3ph0918.met
Sample ID : .05 ppm initial cal
Acquired : Sep 18, 2000 08:00:44
Printed : Oct 10, 2000 10:37:35
User : System

c:\ezchromb\chrom\0918lc3.002 -- Channel A



c:\ezchromb\chrom\0918lc3.002 -- Channel B



HPLC 1

File : c:\ezchromb\chrom\09181c3.002
Method : c:\ezchromb\methods\lc1\l3ph0918.met
Sample ID : .05 ppm initial cal
Acquired : Sep 18, 2000 08:00:44
Printed : Oct 10, 2000 10:37:35
User : System

Channel A Results

Peak Name	Time	Area	Conc.
NAPHTHALENE	4.81	118	0.00
ACENAPHTYLENE	5.63	91	0.00
1-METHYLNAPHT	6.45	0	0.00
2-METHYLNAPHT	6.90	0	0.00
ACENAPTHENE	7.29	53	0.00
FLUORENE	7.53	443	0.00
PHENANTHRENE	8.62	1401	0.00
ANTHRACENE	9.65	3283	0.00
FLUORANTHENE	10.87	372	0.00
PYRENE	11.65	341	0.00
P-TERPHENYL-D	13.43	406	0.06
BENZO(A)ANTHR	14.57	743	0.07
CHRYSENE	15.15	951	0.06
BENZO(B)FLUOR	17.57	750	0.06
BENZO(K)FLOUR	18.61	648	0.07
BENZO(A)PYREN	19.47	595	0.07
DIBENZ(AH)ANT	21.22	65	0.08
BENZO(GHI)PER	22.07	222	0.06
INDENO(123CD)	22.99	1047	0.08

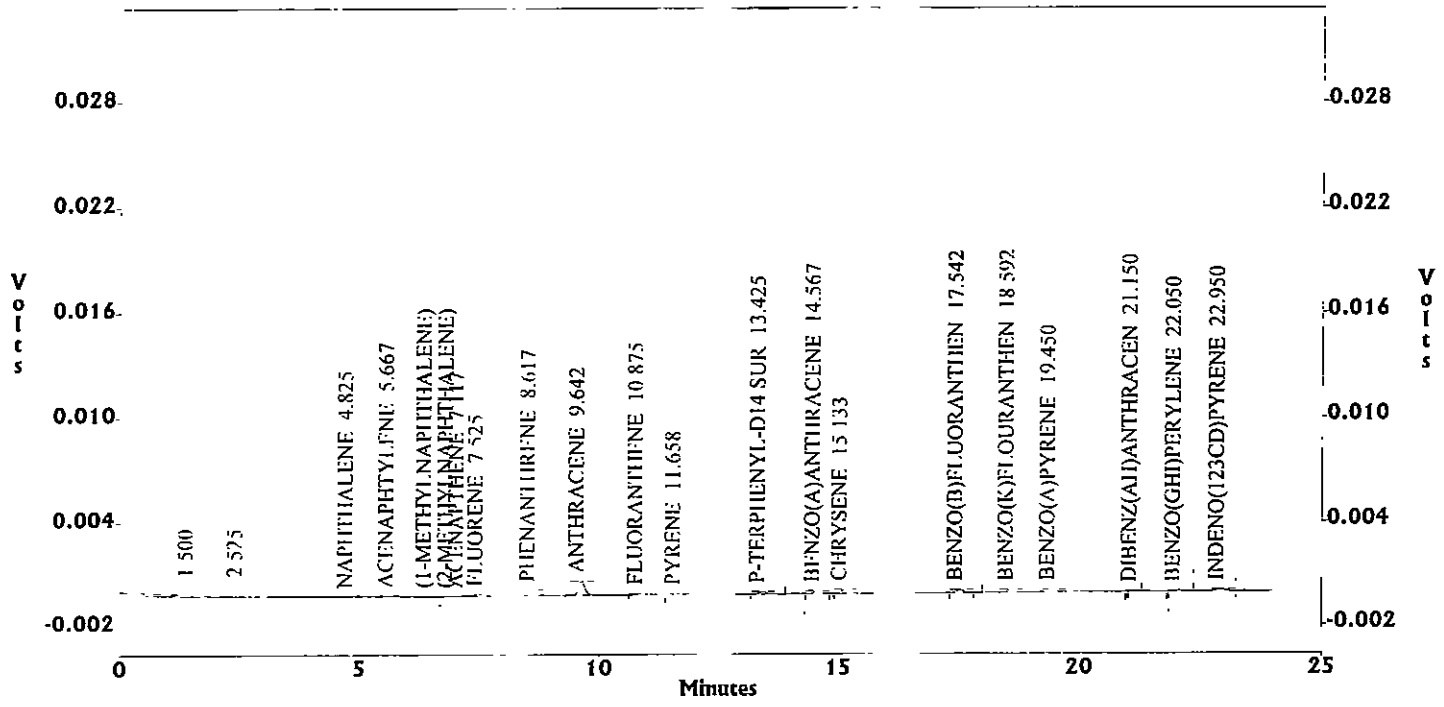
Channel B Results

Name	Time	Area	Conc.
NAPHTHALENE	4.94	15605	0.00
1-METHYLNAPHT	6.47	4495	0.08
2-METHYLNAPHT	6.80	0	0.00
ACENAPTHENE	7.25	56457	0.05
FLUORENE	7.64	20223	0.00
PHENANTHRENE	8.73	20030	0.00
ANTHRACENE	9.76	7502	0.00
FLUORANTHENE	10.97	12856	0.00
PYRENE	11.77	41352	0.00
P-TERPHENYL-D	13.53	23411	0.06
BENZO(A)ANTHR	14.68	125587	0.05
CHRYSENE	15.25	203252	0.05
BENZO(B)FLUOR	17.67	62815	0.05
BENZO(K)FLUOR	18.72	445836	0.03
BENZO(A)PYREN	19.58	151622	0.06
DIBENZ(AH)ANT	21.30	53207	0.06
BENZO(GHI)PER	22.18	66971	0.06
INDENO(123CD)	23.10	16935	0.02

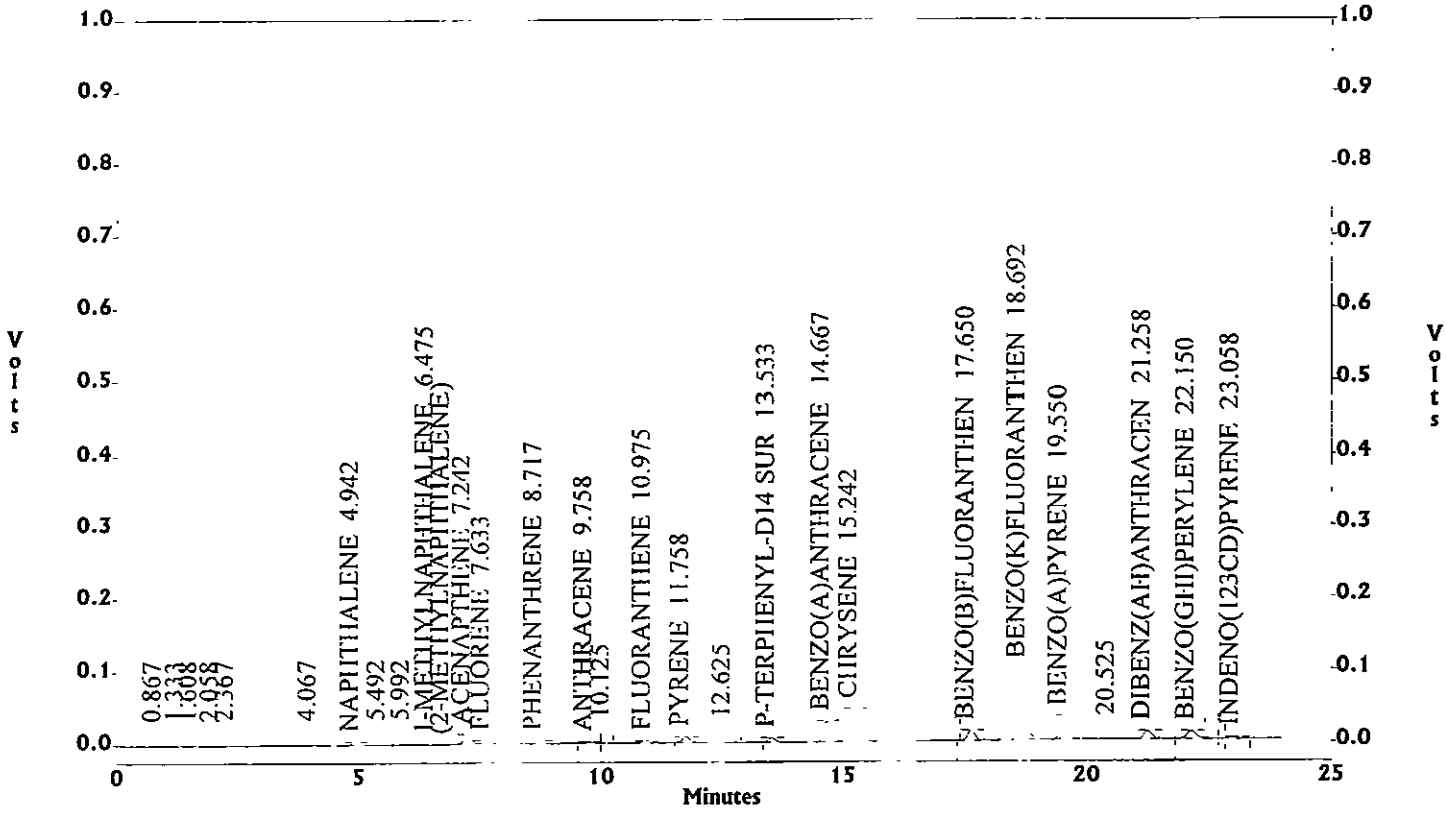
HPLC 1

File : c:\ezchromb\chrom\09181c3.003
Method : c:\ezchromb\methods\lc1\13ph0918.met
Sample ID : .1 ppm initial cal
Acquired : Sep 18, 2000 08:26:58
Printed : Oct 10, 2000 10:37:38
User : System

c:\ezchromb\chrom\0918lc3.003 -- Channel A



c:\ezchromb\chrom\0918lc3.003 -- Channel B



HPLC 1

File : c:\ezchromb\chrom\09181c3.003
Method : c:\ezchromb\methods\lc1\l3ph0918.met
Sample ID : .1 ppm initial cal
Acquired : Sep 18, 2000 08:26:58
Printed : Oct 10, 2000 10:37:38
User : System

Channel A Results

Peak Name	Time	Area	Conc.
NAPHTHALENE	4.82	260	0.00
ACENAPHTYLENE	5.67	197	0.01
1-METHYLNAPHT	6.45	0	0.00
2-METHYLNAPHT	6.90	0	0.00
ACENAPTHENE	7.12	78	0.01
FLUORENE	7.53	1019	0.03
PHENANTHRENE	8.62	3058	0.01
ANTHRACENE	9.64	7483	0.01
FLUORANTHENE	10.88	763	0.03
PYRENE	11.66	621	0.02
P-TERPHENYL-D	13.43	1340	0.23
BENZO(A)ANTHR	14.57	1579	0.12
CHRYSENE	15.13	2140	0.12
BENZO(B)FLUOR	17.54	1773	0.13
BENZO(K)FLOUR	18.59	1488	0.13
BENZO(A)PYREN	19.45	1480	0.13
DIBENZ(AH)ANT	21.15	264	0.15
BENZO(GHI)PER	22.05	591	0.13
INDENO(123CD)	22.95	1858	0.13

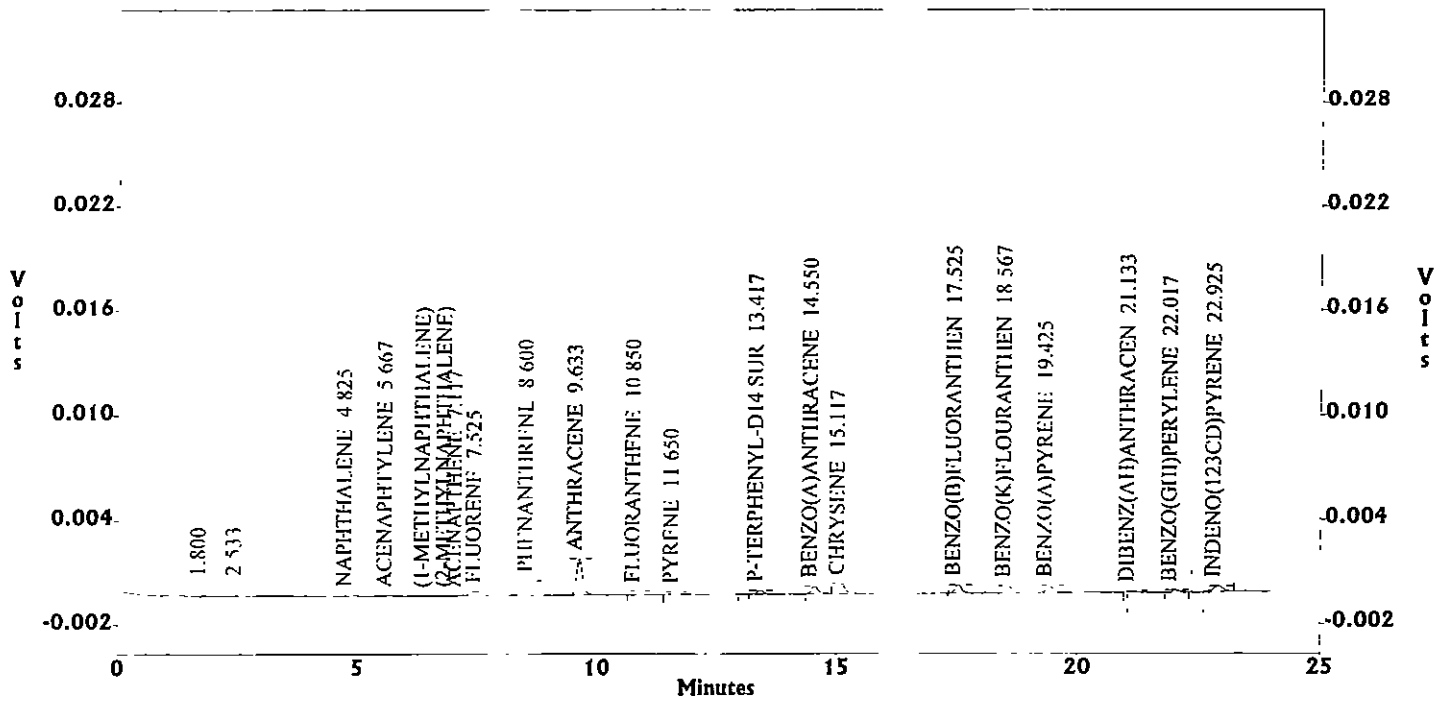
Channel B Results

Name	Time	Area	Conc.
NAPHTHALENE	4.94	38268	0.04
1-METHYLNAPHT	6.47	2352	0.07
2-METHYLNAPHT	6.80	0	0.00
ACENAPTHENE	7.24	133465	0.11
FLUORENE	7.63	46064	0.04
PHENANTHRENE	8.72	36507	0.04
ANTHRACENE	9.76	14217	0.00
FLUORANTHENE	10.98	30258	0.04
PYRENE	11.76	81259	0.00
P-TERPHENYL-D	13.53	58668	0.20
BENZO(A)ANTHR	14.67	283507	0.11
CHRYSENE	15.24	475348	0.12
BENZO(B)FLUOR	17.65	148602	0.11
BENZO(K)FLUOR	18.69	1021989	0.10
BENZO(A)PYREN	19.55	340863	0.12
DIBENZ(AH)ANT	21.26	131636	0.12
BENZO(GHI)PER	22.15	145042	0.12
INDENO(123CD)	23.06	35806	0.08

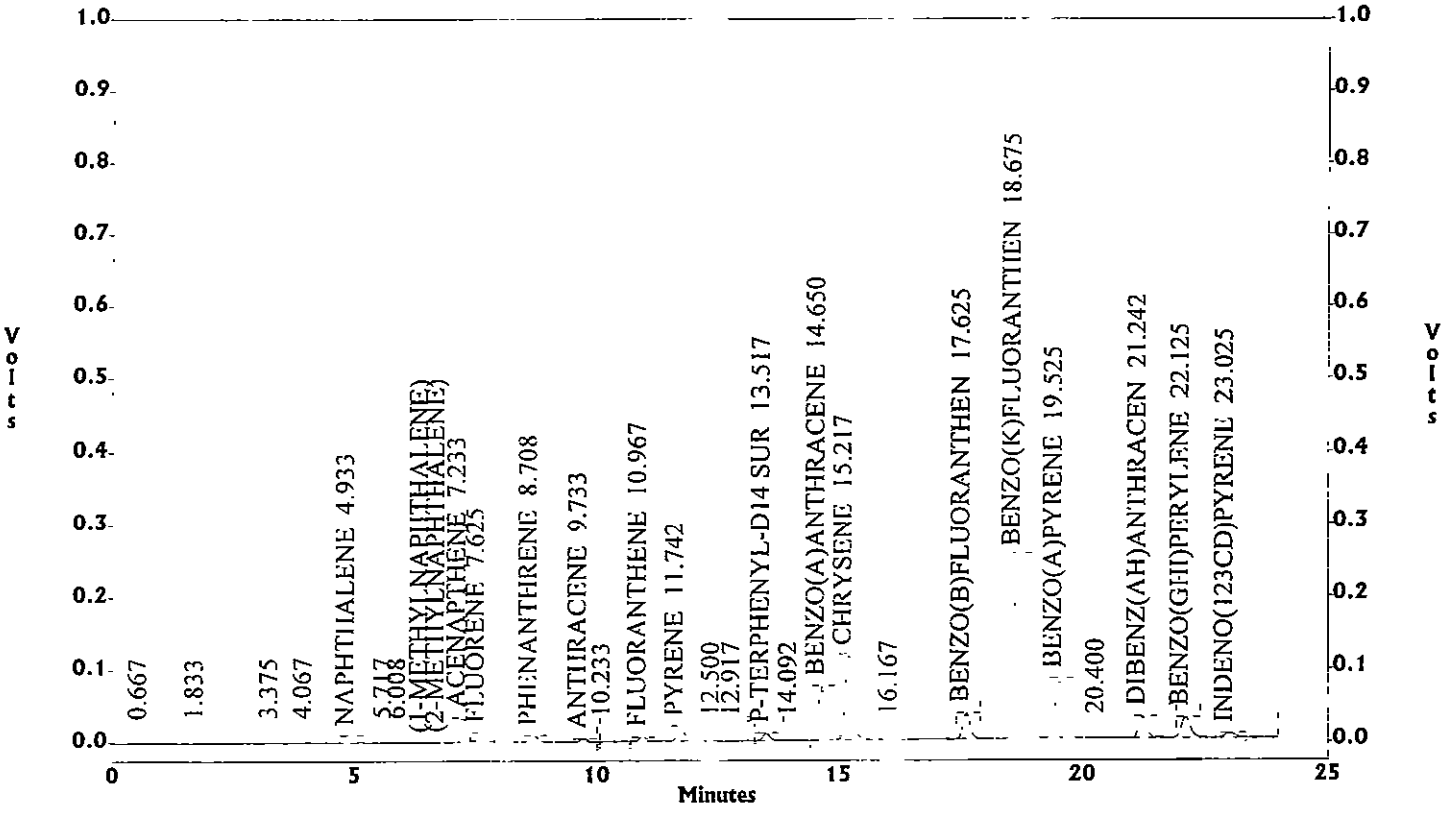
HPLC 1

File : c:\ezchromb\chrom\0918lc3.004
Method : c:\ezchromb\methods\lc1\l3ph0918.met
Sample ID : .25 ppm initial cal
Acquired : Sep 18, 2000 08:53:12
Printed : Oct 10, 2000 10:37:40
User : System

c:\ezchromb\chrom\0918lc3.004 -- Channel A



c:\ezchromb\chrom\0918lc3.004 -- Channel B



HPLC 1

File : c:\ezchromb\chrom\09181c3.004
Method : c:\ezchromb\methods\lc1\13ph0918.met
Sample ID : .25 ppm initial cal
Acquired : Sep 18, 2000 08:53:12
Printed : Oct 10, 2000 10:37:40
User : System

Channel A Results

Peak Name	Time	Area	Conc.
NAPHTHALENE	4.82	650	0.19
ACENAPHTYLENE	5.67	399	0.17
1-METHYLNAPHT	6.45	0	0.00
2-METHYLNAPHT	6.90	0	0.00
ACENAPTHENE	7.12	248	0.27
FLUORENE	7.53	2581	0.23
PHENANTHRENE	8.60	7980	0.21
ANTHRACENE	9.63	19041	0.21
FLUORANTHENE	10.85	1830	0.21
PYRENE	11.65	1539	0.21
P-TERPHENYL-D	13.42	2058	0.36
BENZO(A)ANTHR	14.55	3947	0.29
CHRYSENE	15.12	5408	0.29
BENZO(B)FLUOR	17.52	4441	0.29
BENZO(K)FLOUR	18.57	3803	0.29
BENZO(A)PYREN	19.42	3818	0.29
DIBENZ(AH)ANT	21.13	442	0.22
BENZO(GHI)PER	22.02	1506	0.28
INDENO(123CD)	22.92	4443	0.27

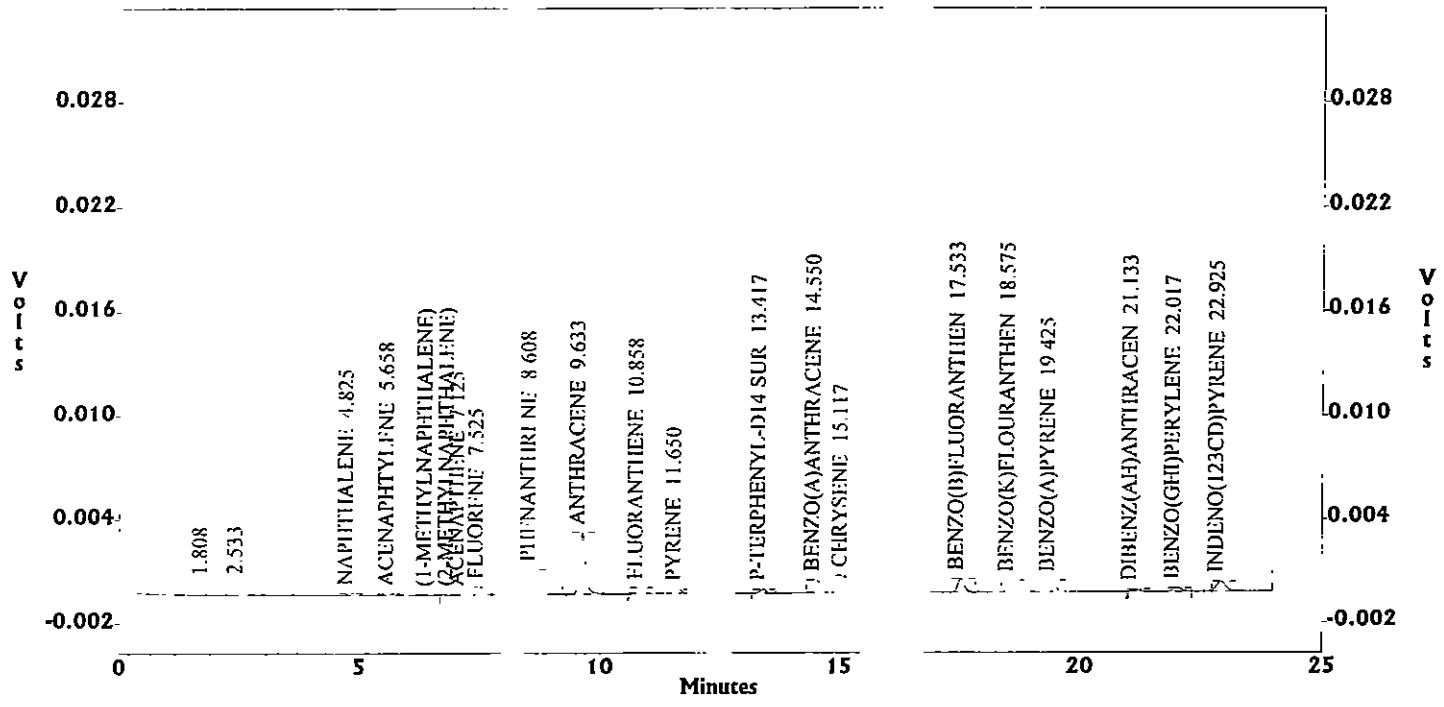
Channel B Results

Name	Time	Area	Conc.
NAPHTHALENE	4.93	98509	0.23
1-METHYLNAPHT	6.47	0	0.00
2-METHYLNAPHT	6.80	0	0.00
ACENAPTHENE	7.23	338355	0.28
FLUORENE	7.63	115588	0.24
PHENANTHRENE	8.71	97373	0.26
ANTHRACENE	9.73	42096	0.22
FLUORANTHENE	10.97	61408	0.21
PYRENE	11.74	223882	0.15
P-TERPHENYL-D	13.52	102964	0.38
BENZO(A)ANTHR	14.65	733174	0.29
CHRYSENE	15.22	1171066	0.28
BENZO(B)FLUOR	17.63	393262	0.30
BENZO(K)FLUOR	18.67	2615952	0.29
BENZO(A)PYREN	19.52	868691	0.29
DIBENZ(AH)ANT	21.24	337525	0.30
BENZO(GHI)PER	22.13	372358	0.29
INDENO(123CD)	23.02	95259	0.29

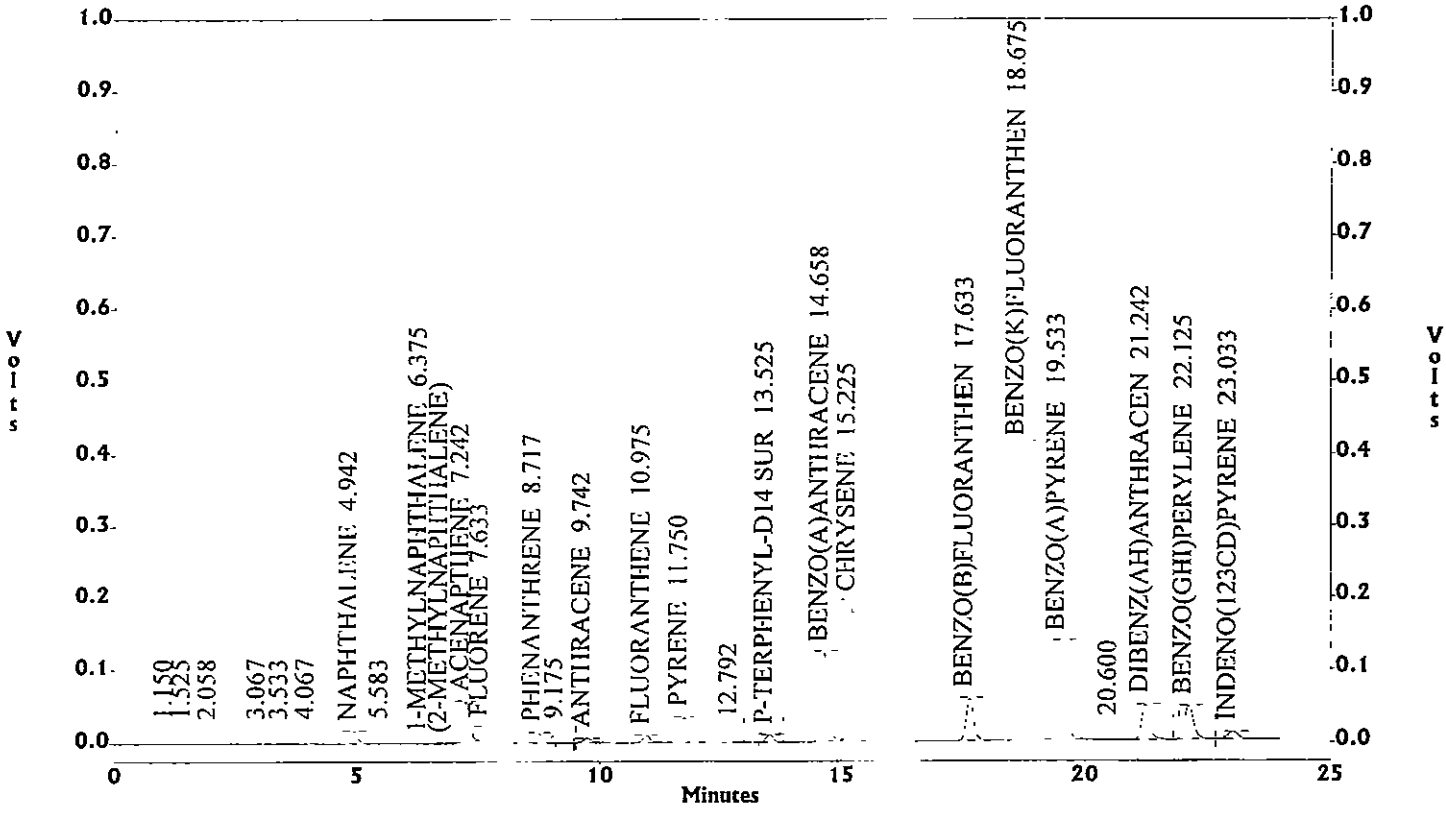
HPLC 1

File : c:\ezchromb\chrom\C9181c3.005
Method : c:\ezchromb\methods\lc1\13ph0918.met
Sample ID : .5 ppm initial cal
Acquired : Sep 18, 2000 09:19:25
Printed : Oct 10, 2000 10:37:42
User : System

c:\ezchromb\chrom\0918lc3.005 -- Channel A



c:\ezchromb\chrom\0918lc3.005 -- Channel B



HPLC 1

File : c:\ezchromb\chrom\09181c3.005
Method : c:\ezchromb\methods\lc1\l3ph0918.met
Sample ID : .5 ppm initial cal
Acquired : Sep 18, 2000 09:19:25
Printed : Oct 10, 2000 10:37:42
User : System

Channel A Results

Peak Name	Time	Area	Conc.
NAPHTHALENE	4.82	1081	0.41
ACENAPHTYLENE	5.66	788	0.47
1-METHYLNAPHT	6.45	0	0.00
2-METHYLNAPHT	6.90	0	0.00
ACENAPTHENE	7.13	365	0.45
FLUORENE	7.53	4166	0.42
PHENANTHRENE	8.61	13269	0.41
ANTHRACENE	9.63	31939	0.43
FLUORANTHENE	10.86	3102	0.42
PYRENE	11.65	2450	0.40
P-TERPHENYL-D	13.42	2075	0.37
BENZO(A)ANTHR	14.55	6449	0.47
CHRYSENE	15.12	8847	0.47
BENZO(B)FLUOR	17.53	7240	0.46
BENZO(K)FLOUR	18.58	6358	0.47
BENZO(A)PYREN	19.42	6225	0.46
DIBENZ(AH)ANT	21.13	1006	0.42
BENZO(GHI)PER	22.02	2631	0.48
INDENO(123CD)	22.92	7977	0.48

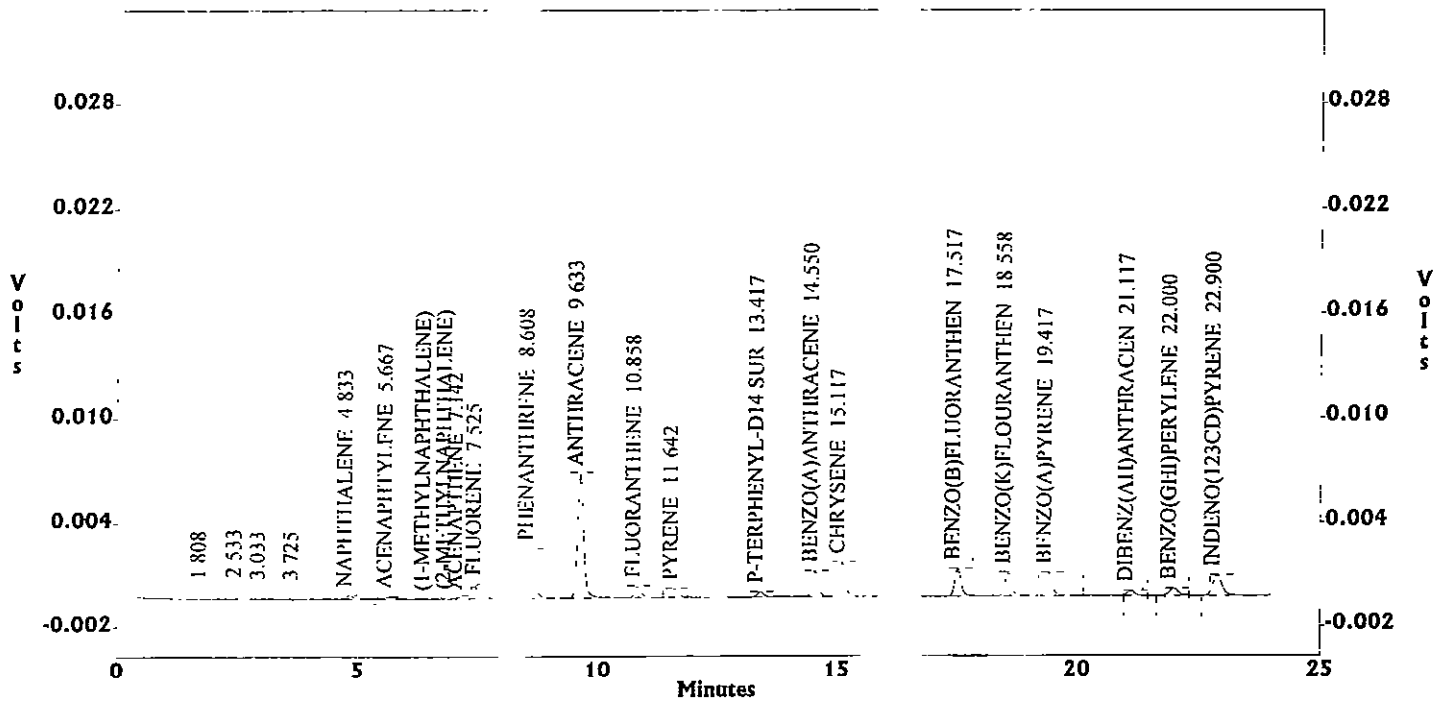
Channel B Results

Name	Time	Area	Conc.
NAPHTHALENE	4.94	170918	0.46
1-METHYLNAPHT	6.38	10568	0.09
2-METHYLNAPHT	6.80	0	0.00
ACENAPTHENE	7.24	571056	0.47
FLUORENE	7.63	191563	0.45
PHENANTHRENE	8.72	146056	0.44
ANTHRACENE	9.74	65315	0.42
FLUORANTHENE	10.98	97298	0.39
PYRENE	11.75	366754	0.38
P-TERPHENYL-D	13.52	101955	0.38
BENZO(A)ANTHR	14.66	1203039	0.47
CHRYSENE	15.23	1925263	0.47
BENZO(B)FLUOR	17.63	622581	0.47
BENZO(K)FLUOR	18.67	4259270	0.48
BENZO(A)PYREN	19.53	1419284	0.47
DIBENZ(AH)ANT	21.24	549723	0.47
BENZO(GHI)PER	22.13	607339	0.46
INDENO(123CD)	23.03	148361	0.47

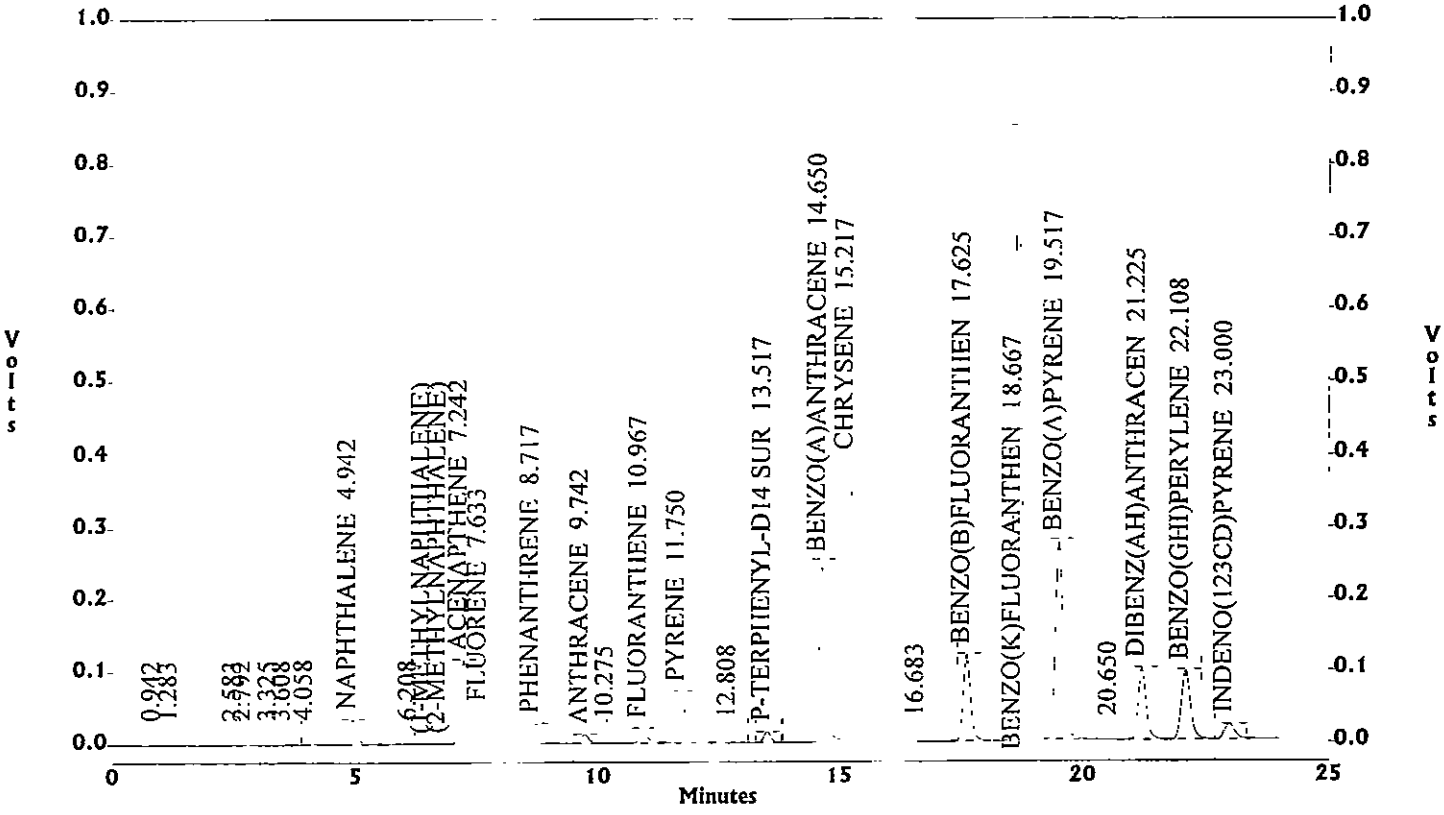
HPLC 1

File : c:\ezchromb\chrom\09181c3.006
Method : c:\ezchromb\methods\lc1\13ph0918.met
Sample ID : 1.0 ppm initial cal
Acquired : Sep 18, 2000 09:45:38
Printed : Oct 10, 2000 10:37:45
User : System

c:\ezchromb\chrom\0918lc3.006 -- Channel A



c:\ezchromb\chrom\0918lc3.006 -- Channel B



HPLC 1

File : c:\ezchromb\chrom\09181c3.006
Method : c:\ezchromb\methods\lc1\l3ph0918.met
Sample ID : 1.0 ppm initial cal
Acquired : Sep 18, 2000 09:45:38
Printed : Oct 10, 2000 10:37:45
User : System

Channel A Results

Peak Name	Time	Area	Conc.
NAPHTHALENE	4.83	2237	1.02
ACENAPHTYLENE	5.67	1490	1.01
1-METHYLNAPHT	6.45	0	0.00
2-METHYLNAPHT	6.90	0	0.00
ACENAPTHENE	7.14	703	0.98
FLUORENE	7.53	8364	0.94
PHENANTHRENE	8.61	26868	0.95
ANTHRACENE	9.63	64534	0.99
FLUORANTHENE	10.86	6253	0.95
PYRENE	11.64	5060	0.95
P-TERPHENYL-D	13.42	2862	0.51
BENZO(A)ANTHR	14.55	13112	0.94
CHRYSENE	15.12	17969	0.94
BENZO(B)FLUOR	17.52	15025	0.94
BENZO(K)FLOUR	18.56	12888	0.94
BENZO(A)PYREN	19.42	12954	0.94
DIBENZ(AH)ANT	21.12	2662	1.03
BENZO(GHI)PER	22.00	5370	0.95
INDENO(123CD)	22.90	16088	0.94

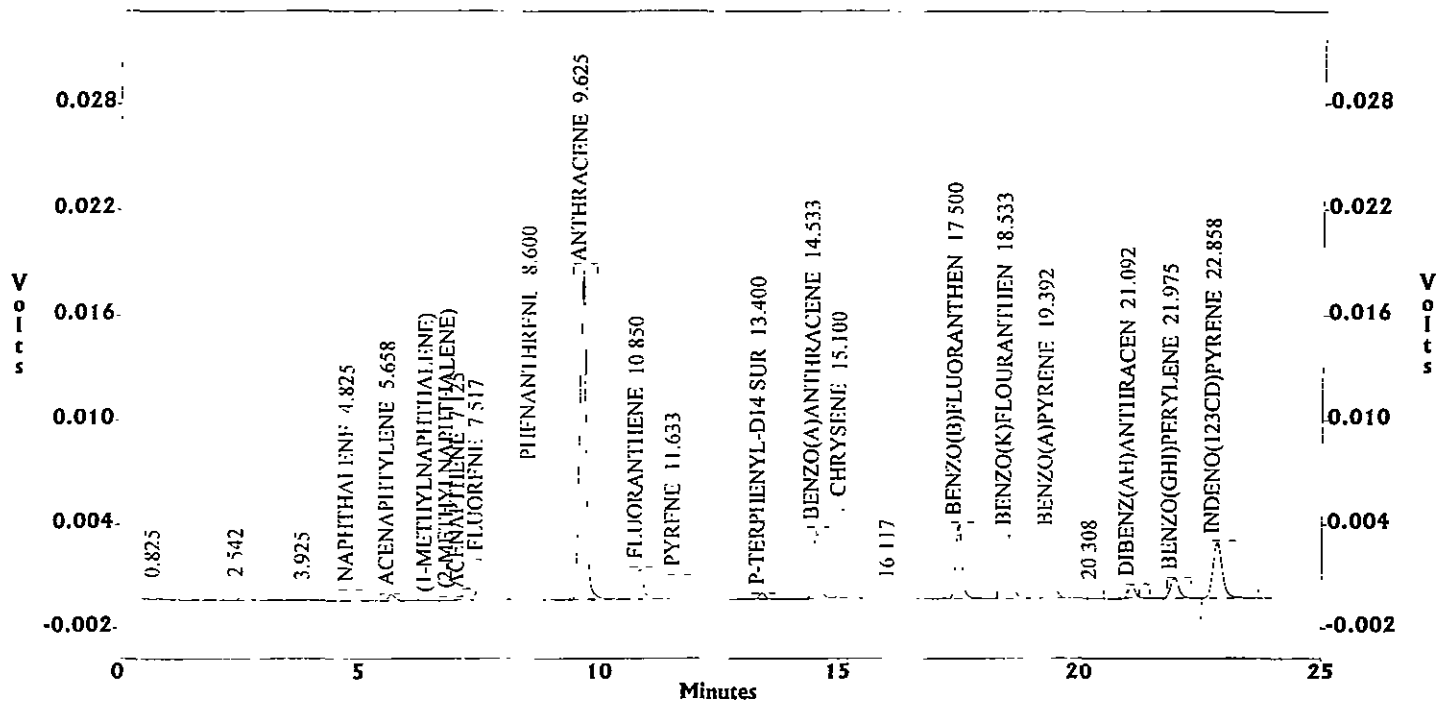
Channel B Results

Name	Time	Area	Conc.
NAPHTHALENE	4.94	346863	1.01
1-METHYLNAPHT	6.47	0	0.00
2-METHYLNAPHT	6.80	0	0.00
ACENAPTHENE	7.24	1149753	0.95
FLUORENE	7.63	383750	0.99
PHENANTHRENE	8.72	301067	1.00
ANTHRACENE	9.74	126531	0.95
FLUORANTHENE	10.97	215244	1.00
PYRENE	11.75	746625	0.97
P-TERPHENYL-D	13.52	142038	0.54
BENZO(A)ANTHR	14.65	2445898	0.94
CHRYSENE	15.22	3927627	0.95
BENZO(B)FLUOR	17.63	1247338	0.93
BENZO(K)FLUOR	18.67	8687378	1.00
BENZO(A)PYREN	19.52	2893309	0.94
DIBENZ(AH)ANT	21.23	1109093	0.94
BENZO(GHI)PER	22.11	1239495	0.93
INDENO(123CD)	23.00	298438	0.99

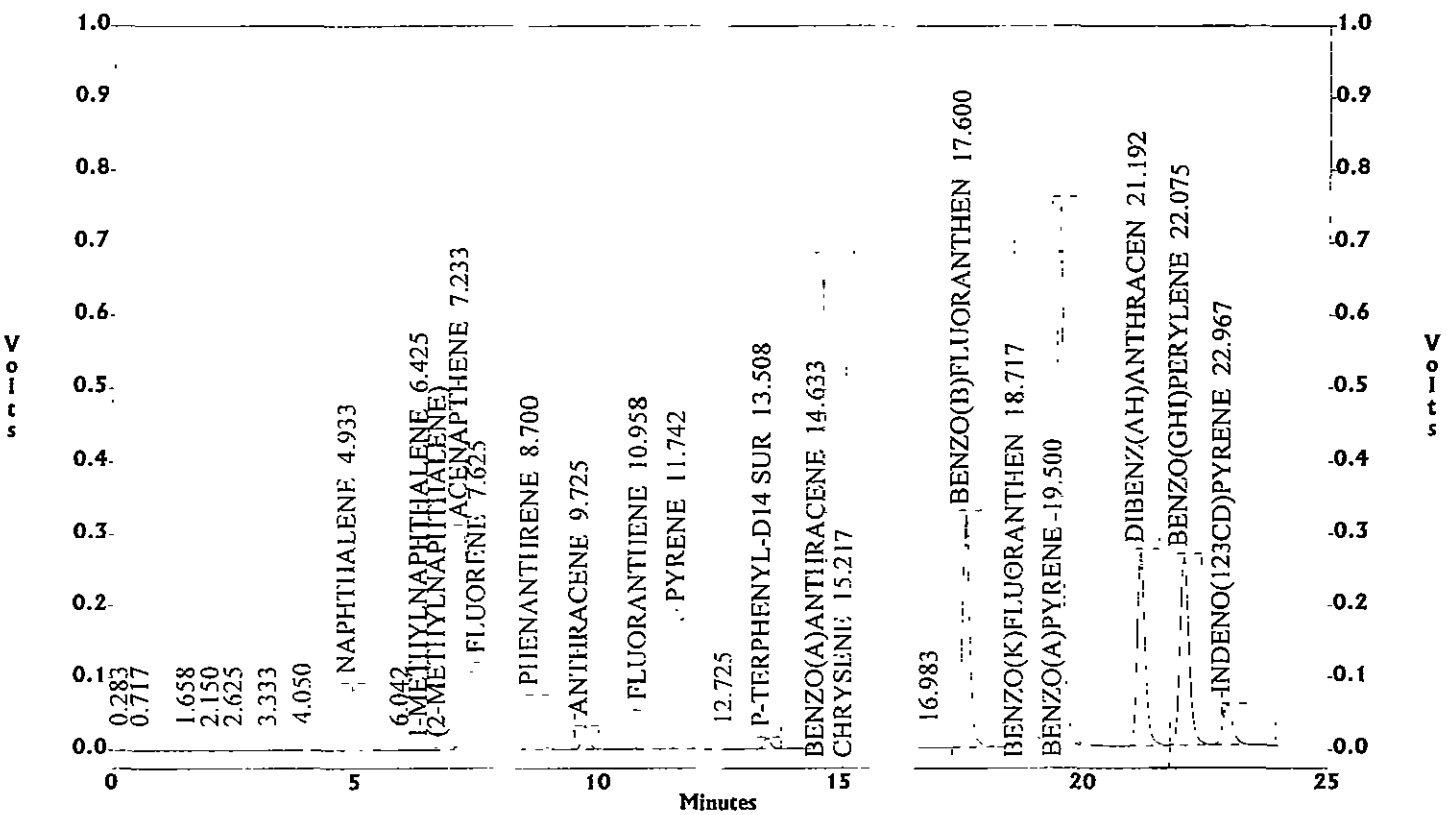
HPLC 1

File : c:\ezchromb\chrom\0918lc3.007
Method : c:\ezchromb\methods\lc1\13ph0918.met
Sample ID : 2.5 ppm initial cal
Acquired : Sep 18, 2000 10:11:52
Printed : Oct 10, 2000 10:37:48
User : System

c:\ezchromb\chrom\0918lc3.007 -- Channel A



c:\ezchromb\chrom\0918lc3.007 -- Channel B



HPLC 1

File : c:\ezchromb\chrom\0918lc3.007
Method : c:\ezchromb\methods\lc1\l3ph0918.met
Sample ID : 2.5 ppm initial cal
Acquired : Sep 18, 2000 10:11:52
Printed : Oct 10, 2000 10:37:48
User : System

Channel A Results

Peak Name	Time	Area	Conc.
NAPHTHALENE	4.82	5577	2.77
ACENAPHTYLENE	5.66	3711	2.71
1-METHYLNAPHT	6.45	0	0.00
2-METHYLNAPHT	6.90	0	0.00
ACENAPTHENE	7.13	1844	2.76
FLUORENE	7.52	22802	2.73
PHENANTHRENE	8.60	71767	2.73
ANTHRACENE	9.63	172526	2.82
FLUORANTHENE	10.85	16686	2.71
PYRENE	11.63	13561	2.73
P-TERPHENYL-D	13.40	3149	0.56
BENZO(A)ANTHR	14.53	35293	2.50
CHRYSENE	15.10	48178	2.50
BENZO(B)FLUOR	17.50	40432	2.50
BENZO(K)FLOUR	18.53	34719	2.50
BENZO(A)PYREN	19.39	35054	2.49
DIBENZ(AH)ANT	21.09	6683	2.50
BENZO(GHI)PER	21.98	14287	2.48
INDENO(123CD)	22.86	43256	2.48

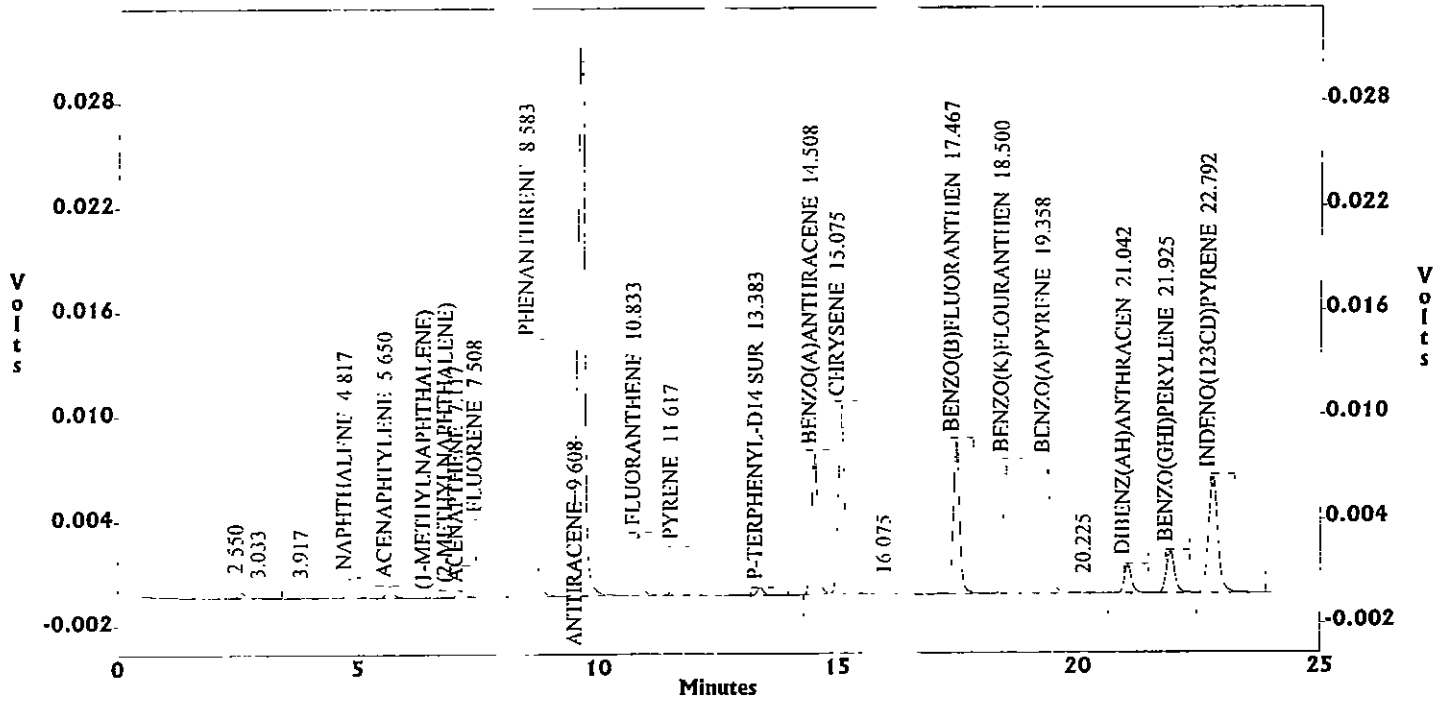
Channel B Results

Name	Time	Area	Conc.
NAPHTHALENE	4.93	921340	2.81
1-METHYLNAPHT	6.43	1267	0.07
2-METHYLNAPHT	6.80	0	0.00
ACENAPTHENE	7.23	3074004	2.56
FLUORENE	7.63	1019580	2.76
PHENANTHRENE	8.70	791949	2.77
ANTHRACENE	9.73	340406	2.80
FLUORANTHENE	10.96	554933	2.77
PYRENE	11.74	1967940	2.87
P-TERPHENYL-D	13.51	150763	0.57
BENZO(A)ANTHR	14.63	6561613	2.52
CHRYSENE	15.22	10428983	2.52
BENZO(B)FLUOR	17.60	3350845	2.50
BENZO(K)FLUOR	18.72	15544409	1.80
BENZO(A)PYREN	19.50	7782086	2.52
DIBENZ(AH)ANT	21.19	2973872	2.50
BENZO(GHI)PER	22.08	3356296	2.48
INDENO(123CD)	22.97	791898	2.70

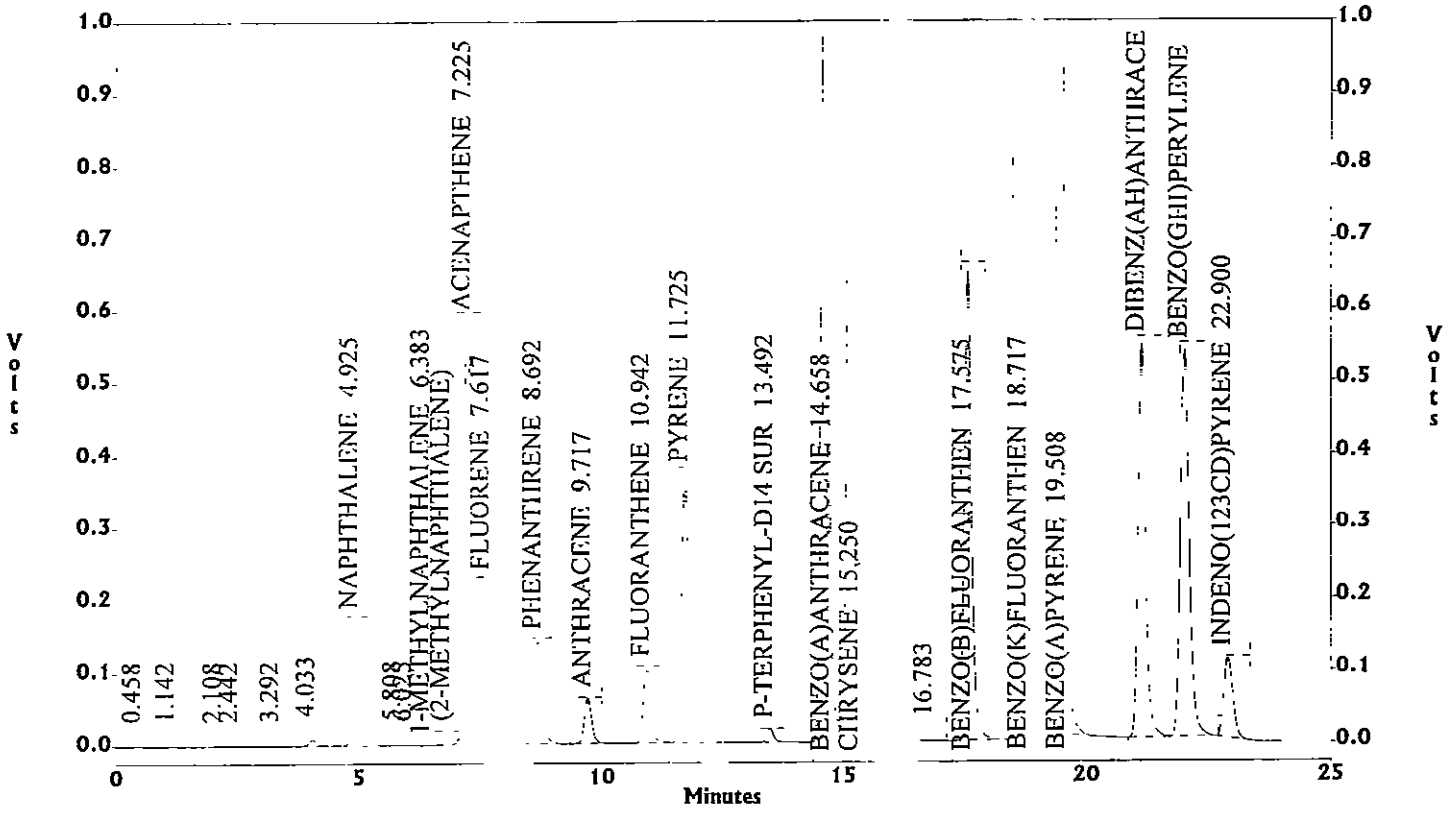
HPLC 1

File : c:\ezchromb\chrom\0918lc3.008
Method : c:\ezchromb\methods\lc1\13ph0918.met
Sample ID : 5.0 ppm initial cal
Acquired : Sep 18, 2000 10:38:05
Printed : Oct 10, 2000 10:37:51
User : System

c:\ezchromb\chrom\0918lc3.008 -- Channel A



c:\ezchromb\chrom\0918lc3.008 -- Channel B



HPLC 1

File : c:\ezchromb\chrom\0918lc3.008
Method : c:\ezchromb\methods\lc1\l3ph0918.met
Sample ID : 5.0 ppm initial cal
Acquired : Sep 18, 2000 10:38:05
Printed : Oct 10, 2000 10:37:51
User : System

Channel A Results

Peak Name	Time	Area	Conc.
NAPHTHALENE	4.82	10863	5.54
ACENAPHTYLENE	5.65	7312	5.48
1-METHYLNAPHT	6.45	0	0.00
2-METHYLNAPHT	6.90	0	0.00
ACENAPTHENE	7.12	3427	5.23
FLUORENE	7.51	44998	5.47
PHENANTHRENE	8.58	143239	5.55
ANTHRACENE	9.61	342354	5.72
FLUORANTHENE	10.83	33357	5.52
PYRENE	11.62	27214	5.59
P-TERPHENYL-D	13.38	3907	0.70
BENZO(A)ANTHR	14.51	70891	5.01
CHRYSENE	15.07	96844	5.01
BENZO(B)FLUOR	17.47	81331	5.01
BENZO(K)FLOUR	18.50	70031	5.01
BENZO(A)PYREN	19.36	70990	5.02
DIBENZ(AH)ANT	21.04	16860	6.22
BENZO(GHI)PER	21.92	29113	5.02
INDENO(123CD)	22.79	87779	5.02

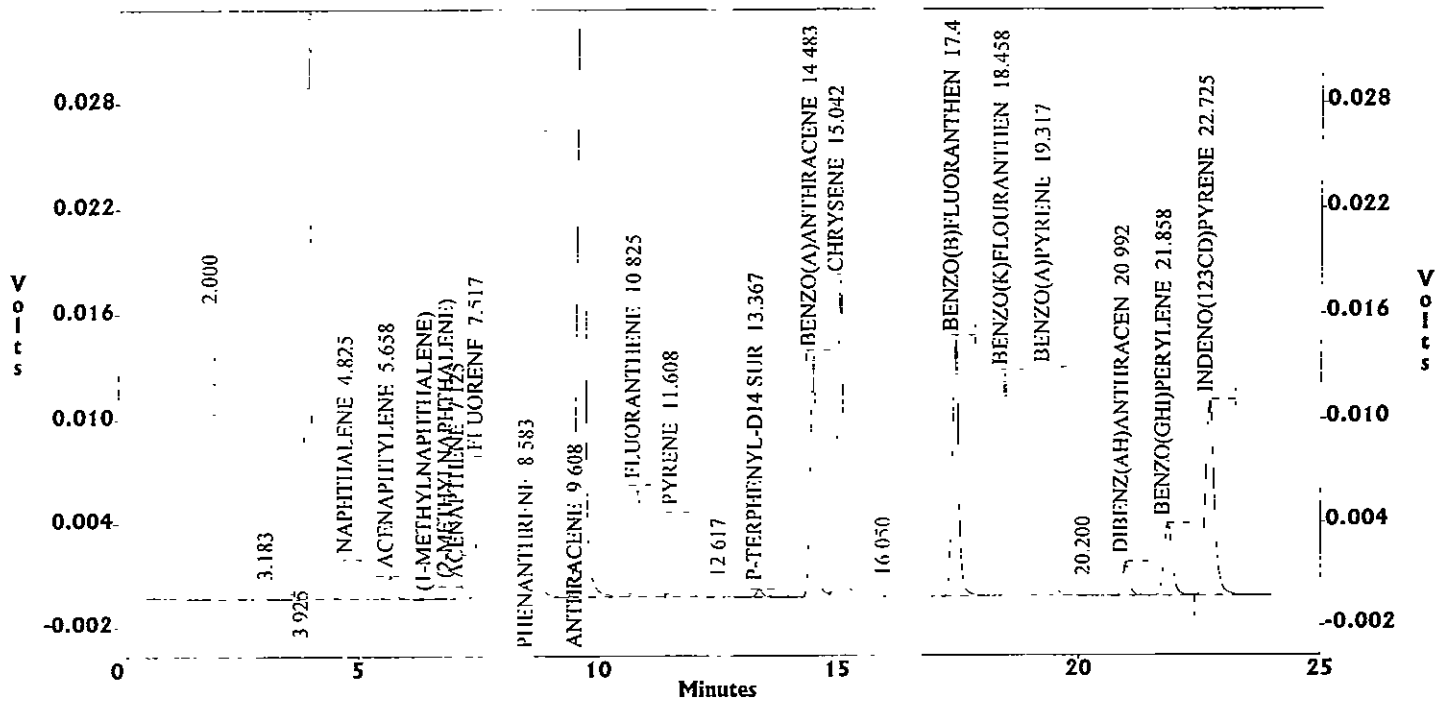
Channel B Results

Name	Time	Area	Conc.
NAPHTHALENE	4.93	1794164	5.54
1-METHYLNAPHT	6.38	3013	0.07
2-METHYLNAPHT	6.80	0	0.00
ACENAPTHENE	7.22	5990136	4.98
FLUORENE	7.62	1942017	5.33
PHENANTHRENE	8.69	1569781	5.58
ANTHRACENE	9.72	671592	5.67
FLUORANTHENE	10.94	1090369	5.55
PYRENE	11.73	3981831	6.00
P-TERPHENYL-D	13.49	180136	0.69
BENZO(A)ANTHR	14.66	11847524	4.55
CHRYSENE	15.25	14570768	3.52
BENZO(B)FLUOR	17.58	6715216	5.01
BENZO(K)FLUOR	18.72	19108376	2.22
BENZO(A)PYREN	19.51	13290050	4.30
DIBENZ(AH)ANT	21.15	5967381	5.01
BENZO(GHI)PER	22.02	6816618	5.02
INDENO(123CD)	22.90	1423805	4.89

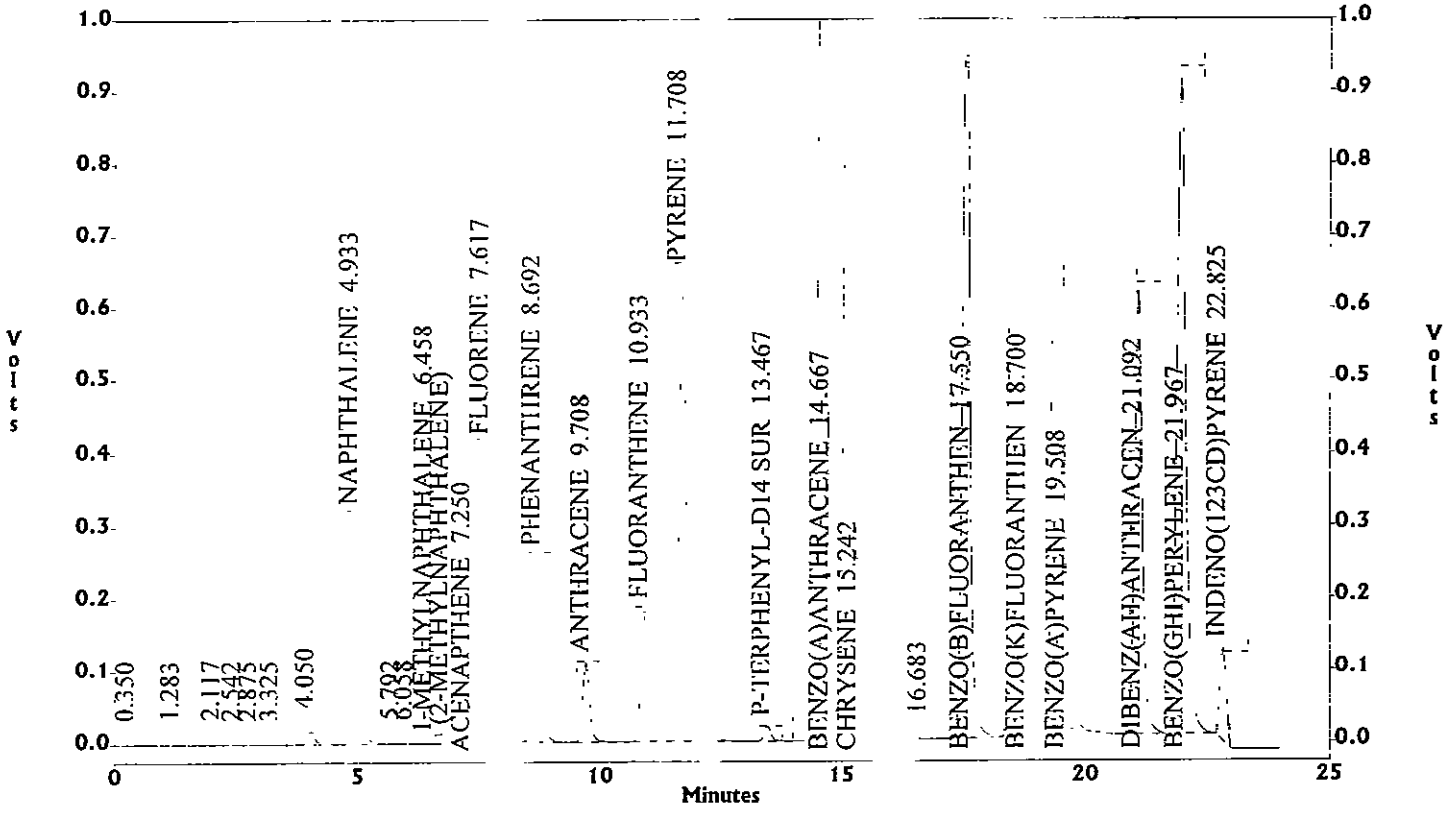
HPLC 1

File : c:\ezchromb\chrom\09181c3.009
Method : c:\ezchromb\methods\lc1\13pn0918.met
Sample ID : 10. ppm initial cal
Acquired : Sep 18, 2000 11:04:18
Printed : Oct 10, 2000 10:37:53
User : System

c:\ezchromb\chrom\09181c3.009 -- Channel A



c:\ezchromb\chrom\09181c3.009 -- Channel B



HPLC 1

File : c:\ezchromb\chrom\09181c3.009
Method : c:\ezchromb\methods\lc1\13ph0918.met
Sample ID : 10. ppm initial cal
Acquired : Sep 18, 2000 11:04:18
Printed : Oct 10, 2000 10:37:54
User : System

Channel A Results

Peak Name	Time	Area	Conc.
NAPHTHALENE	4.82	18509	9.55
ACENAPHTYLENE	5.66	12644	9.57
1-METHYLNAPHT	6.45	0	0.00
2-METHYLNAPHT	6.90	0	0.00
ACENAPTHENE	7.13	6261	9.65
FLUORENE	7.52	78083	9.57
PHENANTHRENE	8.58	244588	9.56
ANTHRACENE	9.61	577652	9.72
FLUORANTHENE	10.82	57152	9.53
PYRENE	11.61	45929	9.51
P-TERPHENYL-D	13.37	4271	0.77
BENZO(A)ANTHR	14.48	119407	8.43
CHRYSENE	15.04	159567	8.25
BENZO(B)FLUOR	17.43	135272	8.32
BENZO(K)FLOUR	18.46	118072	8.44
BENZO(A)PYREN	19.32	122079	8.61
DIBENZ(AH)ANT	20.99	19008	7.01
BENZO(GHI)PER	21.86	48807	8.40
INDENO(123CD)	22.73	146118	8.34

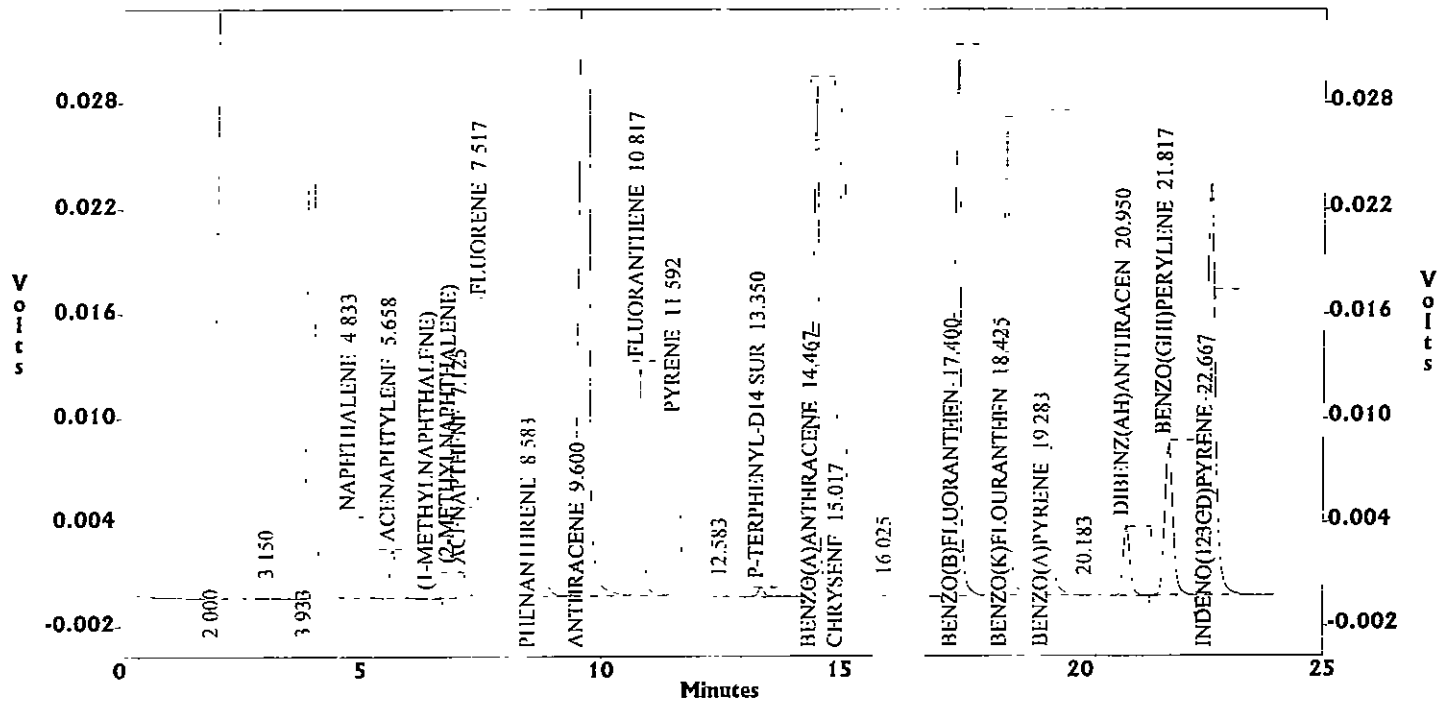
Channel B Results

Name	Time	Area	Conc.
NAPHTHALENE	4.93	3082100	9.57
1-METHYLNAPHT	6.46	2589	0.07
2-METHYLNAPHT	6.80	0	0.00
ACENAPTHENE	7.25	10331444	8.59
FLUORENE	7.62	3491030	9.64
PHENANTHRENE	8.69	2678325	9.58
ANTHRACENE	9.71	1125434	9.60
FLUORANTHENE	10.93	1857164	9.53
PYRENE	11.71	6749422	10.31
P-TERPHENYL-D	13.47	199683	0.77
BENZO(A)ANTHR	14.67	14448167	5.55
CHRYSENE	15.24	16801164	4.06
BENZO(B)FLUOR	17.55	10979599	8.19
BENZO(K)FLUOR	18.70	21788154	2.54
BENZO(A)PYREN	19.51	16216846	5.24
DIBENZ(AH)ANT	21.09	6669078	5.60
BENZO(GHI)PER	21.97	11490579	8.46
INDENO(123CD)	22.83	1195260	4.10

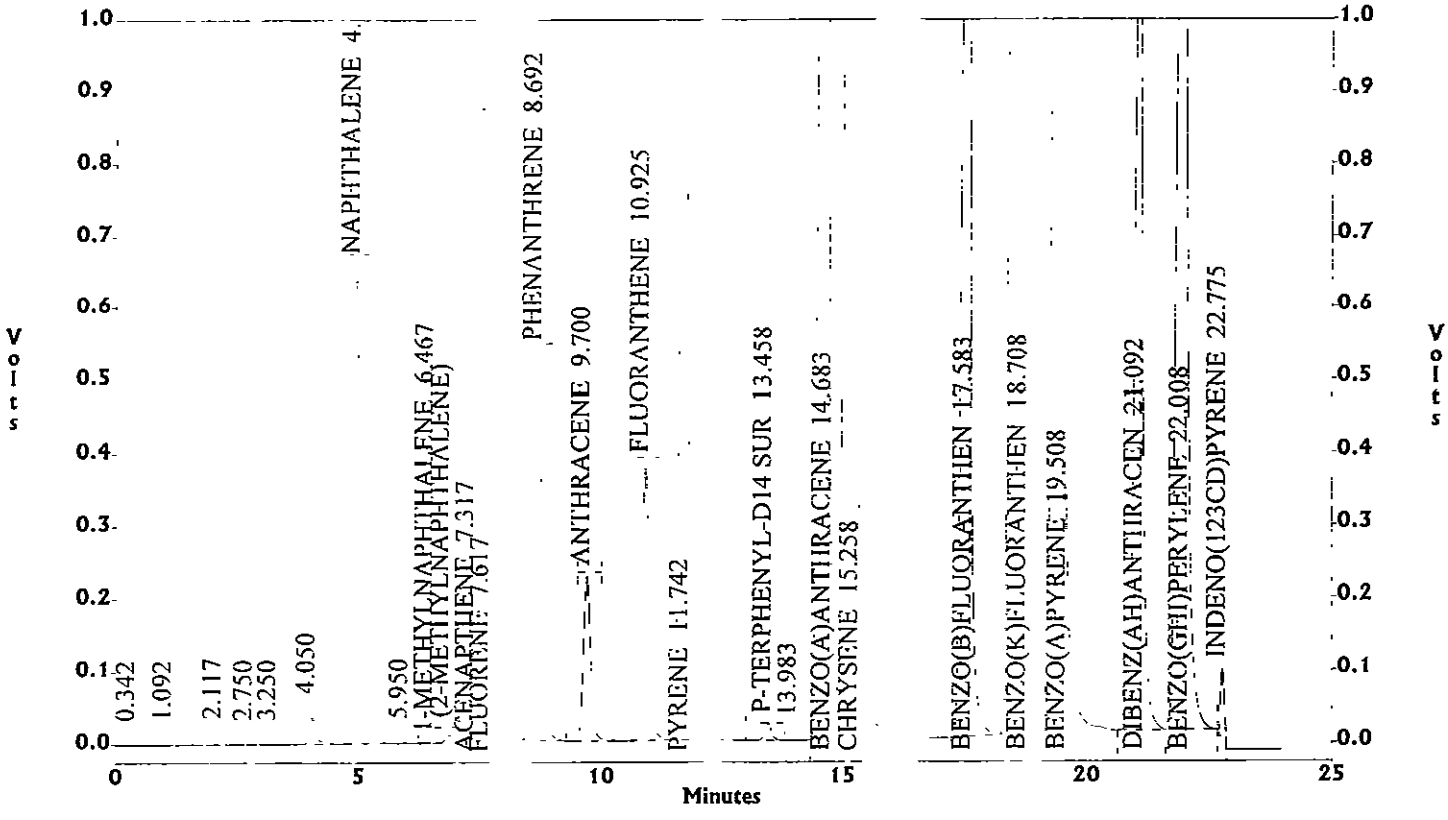
HPLC 1

File : c:\ezchromb\chrom\0918lc3.010
Method : c:\ezchromb\methods\lc1\13ph0918.met
Sample ID : 20. ppm initial cal
Acquired : Sep 18, 2000 11:30:31
Printed : Oct 10, 2000 10:37:56
User : System

c:\ezchromb\chrom\0918lc3.010 -- Channel A



c:\ezchromb\chrom\0918lc3.010 -- Channel B



HPLC 1

File : c:\ezchromb\chrom\0918lc3.010
Method : c:\ezchromb\methods\lc1\l3ph0918.met
Sample ID : 20. ppm initial cal
Acquired : Sep 18, 2000 11:30:31
Printed : Oct 10, 2000 10:37:57
User : System

Channel A Results

Peak Name	Time	Area	Conc.
NAPHTHALENE	4.83	38498	20.03
ACENAPHTYLENE	5.66	26286	20.05
1-METHYLNAPHT	6.45	0	0.00
2-METHYLNAPHT	6.90	0	0.00
ACENAPTHENE	7.13	12946	20.07
FLUORENE	7.52	162866	20.05
PHENANTHRENE	8.58	509217	20.03
ANTHRACENE	9.60	1174510	19.88
FLUORANTHENE	10.82	119595	20.05
PYRENE	11.59	96241	20.04
P-TERPHENYL-D	13.35	5085	0.91
BENZO(A)ANTHR	14.47	250120	17.65
CHRYSENE	15.02	333229	17.22
BENZO(B)FLUOR	17.40	283207	17.40
BENZO(K)FLOUR	18.42	246980	17.63
BENZO(A)PYREN	19.28	256115	18.03
DIBENZ(AH)ANT	20.95	39704	14.58
BENZO(GHI)PER	21.82	102380	17.59
INDENO(123CD)	22.67	306037	17.45

Channel B Results

Name	Time	Area	Conc.
NAPHTHALENE	4.94	6416262	20.01
1-METHYLNAPHT	6.47	5559	0.08
2-METHYLNAPHT	6.80	0	0.00
ACENAPTHENE	7.32	13896981	11.56
FLUORENE	7.62	7225546	20.05
PHENANTHRENE	8.69	5565395	20.00
ANTHRACENE	9.70	2321052	19.96
FLUORANTHENE	10.93	3883431	20.04
PYRENE	11.74	12641356	19.47
P-TERPHENYL-D	13.46	238322	0.93
BENZO(A)ANTHR	14.68	17419606	6.69
CHRYSENE	15.26	19763358	4.77
BENZO(B)FLUOR	17.58	15436468	11.52
BENZO(K)FLUOR	18.71	25652304	2.99
BENZO(A)PYREN	19.51	19686082	6.36
DIBENZ(AH)ANT	21.09	12631689	10.59
BENZO(GHI)PER	22.01	17680000	13.01
INDENO(123CD)	22.77	510971	1.73

7C

8310 PAH CONTINUING CALIBRATION CHECK

Lab Name:	Test America	**Calibration Date:**	09/18/00
SDG #	209998	**Cont. Calib. Date:**	10/8/00
Instrument ID:	HPLC 3	**Lab File ID:**	1008LC3.001

UV CHANNEL

COMPOUND	known	actual		%D	MAX %D
Napthalene	1.00	1.11		10.4	15.0
Acenapthylene	1.00	1.09		8.6	15.0
1-Methyl-naphthalene					
2-Methyl-naphthalene					
Acenapthene	1.00	0.96		4.1	15.0
Flourene	1.00	0.98		2.0	15.0
Phenanthrene	1.00	0.97		3.0	15.0
Anthracene	1.00	0.98		2.0	15.0
Flouranthene	1.00	0.97		3.0	15.0
Pyrene	1.00	0.92		8.3	15.0
Benzo(a)anthracene	1.00	0.98		2.0	15.0
Chrysene	1.00	0.92		8.3	15.0
Benzo(b)flouranthene	1.00	0.90		10.5	15.0
Benzo(k)flouranthene	1.00	0 91		9.4	15.0
Benzo(a)pyrene	1.00	0.90		10.5	15.0
Dibenz(ah)anthracene	1.00	1.27		23.8	15.0
Benzo(ghi)Perylene	1.00	0.96		4.1	15.0
Indeno(123cd)pyrene	1.00	0.92		8.3	15.0

AVERAGE: 7.41

FORM VII SV 3/90

7C

8310 PAH CONTINUING CALIBRATION CHECK

Lab Name: Test America **Calibration Date:** 09/18/00

SDG # 209998 **Cont. Calib. Date:** 10/8/00

Instrument ID: HPLC 3 **Lab File ID:** 1008LC3.001

FLOURECENCE CHANNEL

COMPOUND	known	actual		%D	MAX %D
Napthalene	1.00	1.19		17.4	15.0
1-Methyl-naphthalene					
2-Methyl-naphthalene					
Acenapthene	1.00	1.02		2.0	15.0
Flourene	1.00	0.99		1.0	15.0
Phenanthrene	1.00	1.16		14.8	15.0
Anthracene	1.00	1.02		2.0	15.0
Flouranthene	1.00	1.06		5.8	15.0
Pyrene	1.00	1.48		38.7	15.0
Benzo(a)anthracene	1.00	1.05		4.9	15.0
Chrysene	1.00	1.03		3.0	15.0
Benzo(b)flouranthene	1.00	0.93		7.3	15.0
Benzo(k)flouranthene	1.00	0.96		4.1	15.0
Benzo(a)pyrene	1.00	1.05		4.9	15.0
Dibenz(ah)anthracene	1.00	1.01		1.0	15.0
Benzo(ghi)Perylene	1.00	1.24		21.4	15.0
Indeno(123cd)pyrene	1.00	0.89		11.6	15.0

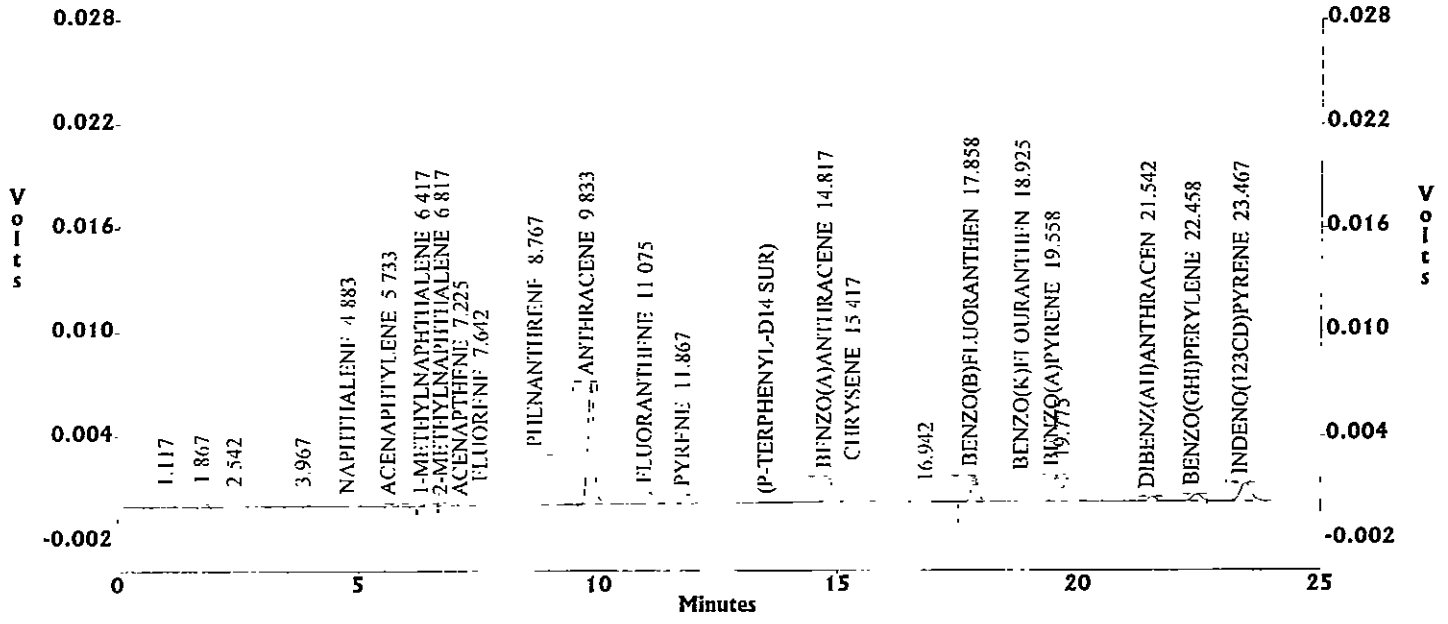
AVERAGE: 9.32

FORM VII SV 3/90

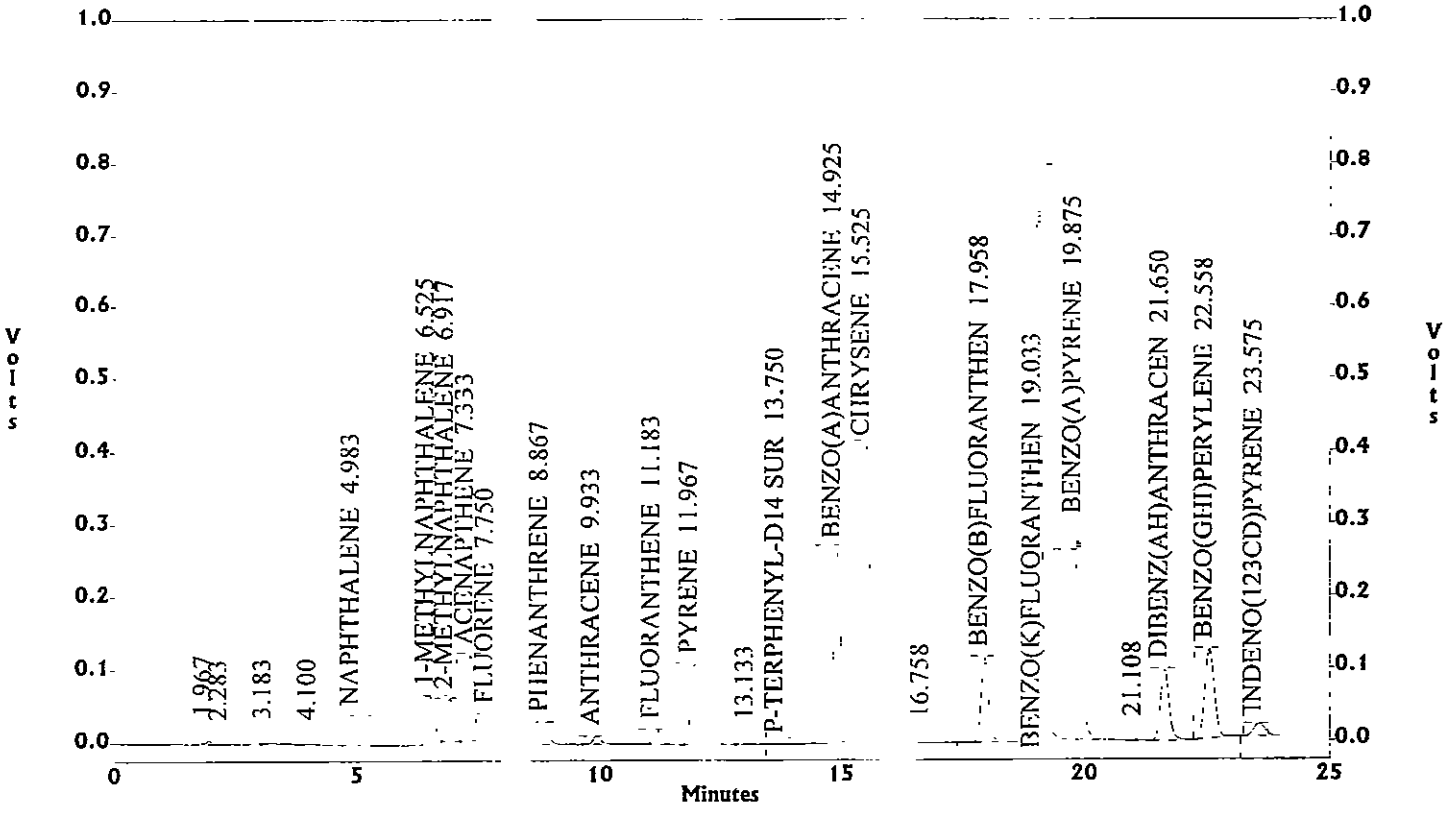
HPLC 1

File : c:\ezchromb\chrom\1008lc3.001
Method : c:\ezchromb\methods\lc1\13ph0918.met
Sample ID : 1.0ppm(5-w-sn-29-4)
Acquired : Oct 08, 2000 07:50:14
Printed : Oct 09, 2000 07:22:17
User : System

c:\ezchromb\chrom\1008lc3.001 -- Channel A



c:\ezchromb\chrom\1008lc3.001 -- Channel B



HPLC 1

File : c:\ezchromb\chrom\1008lc3.001
Method : c:\ezchromb\methods\lc1\13ph0918.met
Sample ID : 1.0ppm(5-w-sn-29-4)
Acquired : Oct 08, 2000 07:50:14
Printed : Oct 09, 2000 07:22:17
User : System

Channel A Results

Peak Name	Time	Area	Conc.
NAPHTHALENE	4.88	2407	1.11
ACENAPHTYLENE	5.73	1594	1.09
1-METHYLNAPHT	6.42	1266	1.06
2-METHYLNAPHT	6.82	1708	1.06
ACENAPTHENE	7.22	692	0.96
FLUORENE	7.64	8698	0.98
PHENANTHRENE	8.77	27236	0.97
ANTHRACENE	9.83	64292	0.98
FLUORANTHENE	11.07	6326	0.97
PYRENE	11.87	4952	0.92
P-TERPHENYL-D	13.60	0	0.00
BENZO(A)ANTHR	14.82	13716	0.98
CHRYSENE	15.42	17546	0.92
BENZO(B)FLUOR	17.86	14436	0.90
BENZO(K)FLOUR	18.92	12445	0.91
BENZO(A)PYREN	19.56	12382	0.90
DIBENZ(AH)ANT	21.54	3323	1.27
BENZO(GHI)PER	22.46	5448	0.96
INDENO(123CD)	23.47	15834	0.92

Channel B Results

Name	Time	Area	Conc.
NAPHTHALENE	4.98	403937	1.19
1-METHYLNAPHT	6.53	659351	1.12
2-METHYLNAPHT	6.92	590182	1.13
ACENAPTHENE	7.33	1232419	1.02
FLUORENE	7.75	386824	0.99
PHENANTHRENE	8.87	345427	1.16
ANTHRACENE	9.93	134351	1.02
FLUORANTHENE	11.18	226237	1.06
PYRENE	11.97	1174665	1.48
P-TERPHENYL-D	13.75	6390	0.00
BENZO(A)ANTHR	14.93	2711815	1.05
CHRYSENE	15.52	4244179	1.03
BENZO(B)FLUOR	17.96	1248821	0.93
BENZO(K)FLUOR	19.03	8378358	0.96
BENZO(A)PYREN	19.88	3222368	1.05
DIBENZ(AH)ANT	21.65	1188303	1.01
BENZO(GHI)PER	22.56	1667745	1.24
INDENO(123CD)	23.58	280167	0.89

7C

8310 PAH CONTINUING CALIBRATION CHECK

Lab Name:	Test America	**Calibration Date:**	09/18/00
SDG #	209998	**Cont. Calib. Date:**	10/8/00
Instrument ID:	HPLC 3	**Lab File ID:**	1008LC3.012

UV CHANNEL

COMPOUND	known	actual		%D	MAX %D
Napthalene	1.00	1.09		8.6	15.0
Acenapthylene	1.00	1.11		10.4	15.0
1-Methyl-naphthalene					
2-Methyl-naphthalene					
Acenapthene	1.00	0.95		5.1	15.0
Flourene	1.00	0.96		4.1	15.0
Phenanthrene	1.00	0.94		6.2	15.0
Anthracene	1.00	0.96		4.1	15.0
Flouranthene	1.00	0.95		5.1	15.0
Pyrene	1.00	0.93		7.3	15.0
Benzo(a)anthracene	1.00	0.93		7.3	15.0
Chrysene	1.00	0.90		10.5	15.0
Benzo(b)flouranthene	1.00	0.90		10.5	15.0
Benzo(k)flouranthene	1.00	0.91		9.4	15.0
Benzo(a)pyrene	1.00	0.90		10.5	15.0
Dibenz(ah)anthracene	1.00	1.19		17.4	15.0
Benzo(ghi)Perylene	1.00	0.93		7.3	15.0
Indeno(123cd)pyrene	1.00	0.92		8.3	15.0

AVERAGE: 8.26

FORM VII SV 3/90

7C

8310 PAH CONTINUING CALIBRATION CHECK

Lab Name: Test America **Calibration Date:** 09/18/00

SDG # 209998 **Cont. Calib. Date:** 10/8/00

Instrument ID: HPLC 3 **Lab File ID:** 1008LC3.012

FLOURECENCE CHANNEL

COMPOUND	known	actual		%D	MAX %D
Napthalene	1.00	1.06		5.8	15.0
1-Methyl-naphthalene					
2-Methyl-naphthalene					
Acenapthene	1.00	0.92		8.3	15.0
Flourene	1.00	0.94		6.2	15.0
Phenanthrene	1.00	0.94		6.2	15.0
Anthracene	1.00	0.97		3.0	15.0
Flouranthene	1.00	0.91		9.4	15.0
Pyrene	1.00	0.99		1.0	15.0
Benzo(a)anthracene	1.00	0.90		10.5	15.0
Chrysene	1.00	0.88		12.8	15.0
Benzo(b)flouranthene	1.00	0.85		16.2	15.0
Benzo(k)flouranthene	1.00	0.91		9.4	15.0
Benzo(a)pyrene	1.00	0.89		11.6	15.0
Dibenz(ah)anthracene	1.00	0.87		13.9	15.0
Benzo(ghi)Perylene	1.00	0.92		8.3	15.0
Indeno(123cd)pyrene	1.00	0.81		21.0	15.0

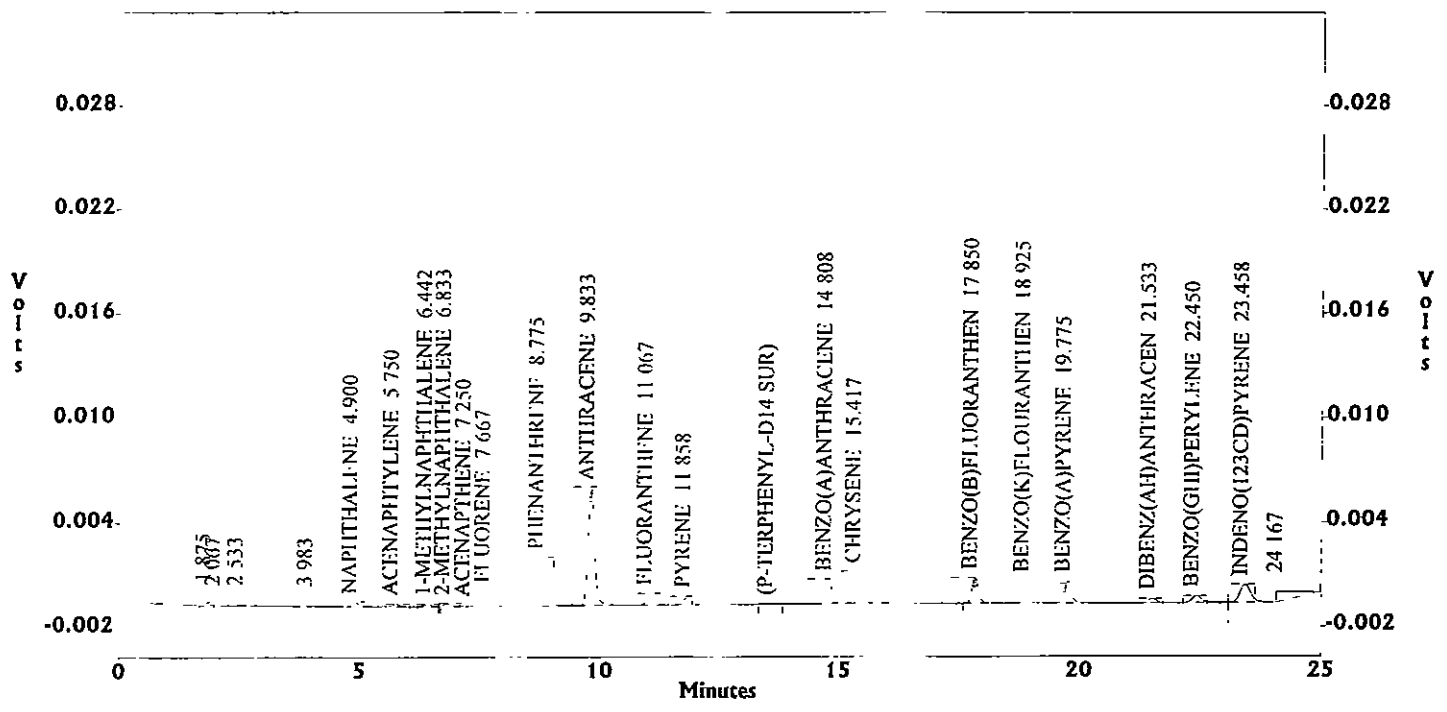
AVERAGE: 9.59

FORM VII SV 3/90

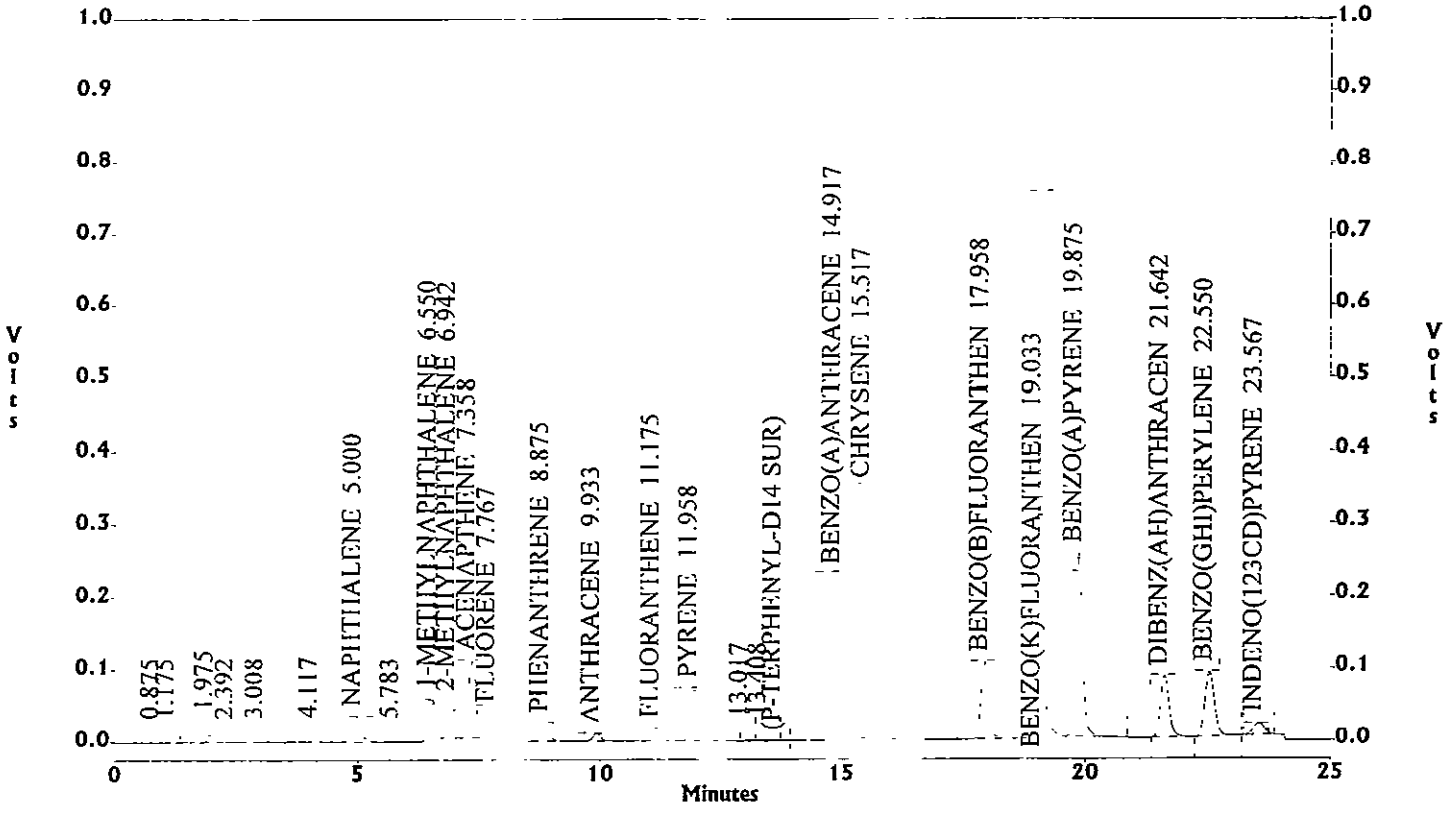
HPLC 1

File : c:\ezchromb\chrom\1008lc3.012
Method : c:\ezchromb\methods\lc1\13ph0918.met
Sample ID : 1.0ppm(5-w-sn-29-4)
Acquired : Oct 08, 2000 12:47:15
Printed : Oct 10, 2000 07:46:27
User : System

c:\ezchromb\chrom\1008lc3.012 -- Channel A



c:\ezchromb\chrom\1008lc3.012 -- Channel B



HPLC 1

File : c:\ezchromb\chrom\10081c3.012
Method : c:\ezchromb\methods\1c1\13ph0918.met
Sample ID : 1.0ppm(5-w-sn-29-4)
Acquired : Oct 08, 2000 12:47:15
Printed : Oct 10, 2000 07:46:28
User : System

Channel A Results

Peak Name	Time	Area	Conc.
NAPHTHALENE	4.90	2381	1.09
ACENAPHTYLENE	5.75	1630	1.11
1-METHYLNAPHT	6.44	1244	1.04
2-METHYLNAPHT	6.83	1669	1.04
ACENAPTHENE	7.25	684	0.95
FLUORENE	7.67	8483	0.96
PHENANTHRENE	8.77	26647	0.94
ANTHRACENE	9.83	62817	0.96
FLUORANTHENE	11.07	6204	0.95
PYRENE	11.86	4955	0.93
P-TERPHENYL-D	13.60	0	0.00
BENZO(A)ANTHR	14.81	12956	0.93
CHRYSENE	15.42	17147	0.90
BENZO(B)FLUOR	17.85	14403	0.90
BENZO(K)FLOUR	18.92	12522	0.91
BENZO(A)PYREN	19.77	12480	0.90
DIBENZ(AH)ANT	21.53	3100	1.19
BENZO(GHI)PER	22.45	5252	0.93
INDENO(123CD)	23.46	15712	0.92

Channel B Results

Name	Time	Area	Conc.
NAPHTHALENE	5.00	363721	1.06
1-METHYLNAPHT	6.55	583352	1.00
2-METHYLNAPHT	6.94	522633	1.01
ACENAPTHENE	7.36	1113630	0.92
FLUORENE	7.77	367883	0.94
PHENANTHRENE	8.88	284627	0.94
ANTHRACENE	9.93	128662	0.97
FLUORANTHENE	11.18	197636	0.91
PYRENE	11.96	784376	0.99
P-TERPHENYL-D	13.70	0	0.00
BENZO(A)ANTHR	14.92	2327153	0.90
CHRYSENE	15.52	3631369	0.88
BENZO(B)FLUOR	17.96	1138479	0.85
BENZO(K)FLUOR	19.03	7919831	0.91
BENZO(A)PYREN	19.88	2727524	0.89
DIBENZ(AH)ANT	21.64	1029517	0.87
BENZO(GHI)PER	22.55	1225117	0.92
INDENO(123CD)	23.57	254820	0.81

7C

8310 PAH CONTINUING CALIBRATION CHECK

Lab Name: Test America **Calibration Date:** 09/18/00

SDG # 209998 **Cont. Calib. Date:** 10/8/00

Instrument ID: HPLC 3 **Lab File ID:** 1008LC3.015

UV CHANNEL

COMPOUND	known	actual		%D	MAX %D
Napthalene	1.00	1.06		5.8	15.0
Acenapthylene	1.00	1.09		8.6	15.0
1-Methyl-naphthalene					
2-Methyl-naphthalene					
Acenapthene	1.00	0.87		13.9	15.0
Flourene	1.00	0.96		4.1	15.0
Phenanthrene	1.00	0.94		6.2	15.0
Anthracene	1.00	0.96		4.1	15.0
Flouranthene	1.00	0.94		6.2	15.0
Pyrene	1.00	0.91		9.4	15.0
Benzo(a)anthracene	1.00	0.92		8.3	15.0
Chrysene	1.00	0.89		11.6	15.0
Benzo(b)flouranthene	1.00	0.91		9.4	15.0
Benzo(k)flouranthene	1.00	0.91		9.4	15.0
Benzo(a)pyrene	1.00	0.90		10.5	15.0
Dibenz(ah)anthracene	1.00	1.21		19.0	15.0
Benzo(ghi)Perylene	1.00	0.92		8.3	15.0
Indeno(123cd)pyrene	1.00	0.92		8.3	15.0

AVERAGE: 8.96

FORM VII SV 3/90

7C

8310 PAH CONTINUING CALIBRATION CHECK

Lab Name:	Test America	**Calibration Date:**	09/18/00
SDG #	209998	**Cont. Calib. Date:**	10/8/00
Instrument ID:	HPLC 3	**Lab File ID:**	1008LC3.012

FLOURECENCE CHANNEL

COMPOUND	known	actual		%D	MAX %D
Napthalene	1.00	1.00		0.0	15.0
1-Methyl-naphthalene					
2-Methyl-naphthalene					
Acenapthene	1.00	0.91		9.4	15.0
Flourene	1.00	0.93		7.3	15.0
Phenanthrene	1.00	0.98		2.0	15.0
Anthracene	1.00	0.90		10.5	15.0
Flouranthene	1.00	0.89		11.6	15.0
Pyrene	1.00	0.94		6.2	15.0
Benzo(a)anthracene	1.00	0.87		13.9	15.0
Chrysene	1.00	0.86		15.1	15.0
Benzo(b)flouranthene	1.00	0.84		17.4	15.0
Benzo(k)flouranthene	1.00	0.90		10.5	15.0
Benzo(a)pyrene	1.00	0.86		15.1	15.0
Dibenz(ah)anthracene	1.00	0.86		15.1	15.0
Benzo(ghi)Perylene	1.00	0.87		13.9	15.0
Indeno(123cd)pyrene	1.00	0.83		18.6	15.0

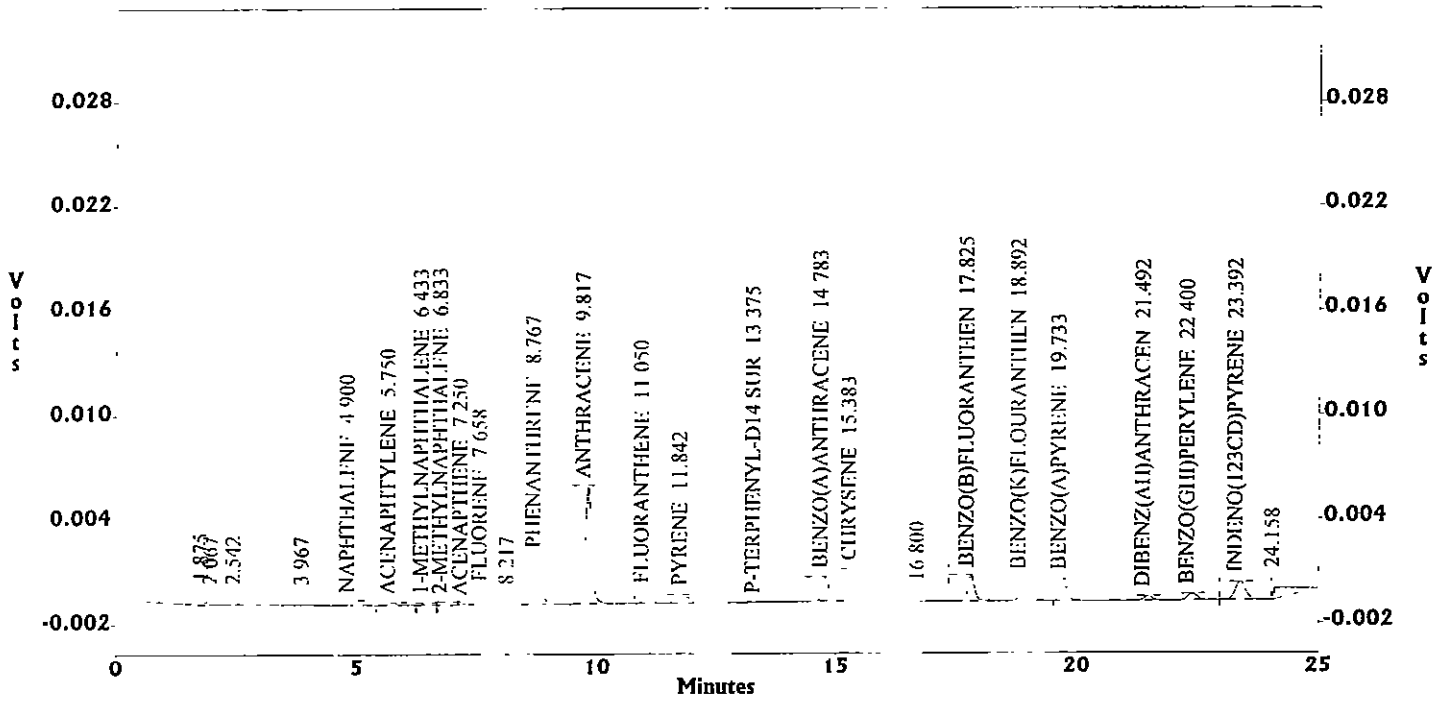
AVERAGE: 11.10

FORM VII SV 3/90

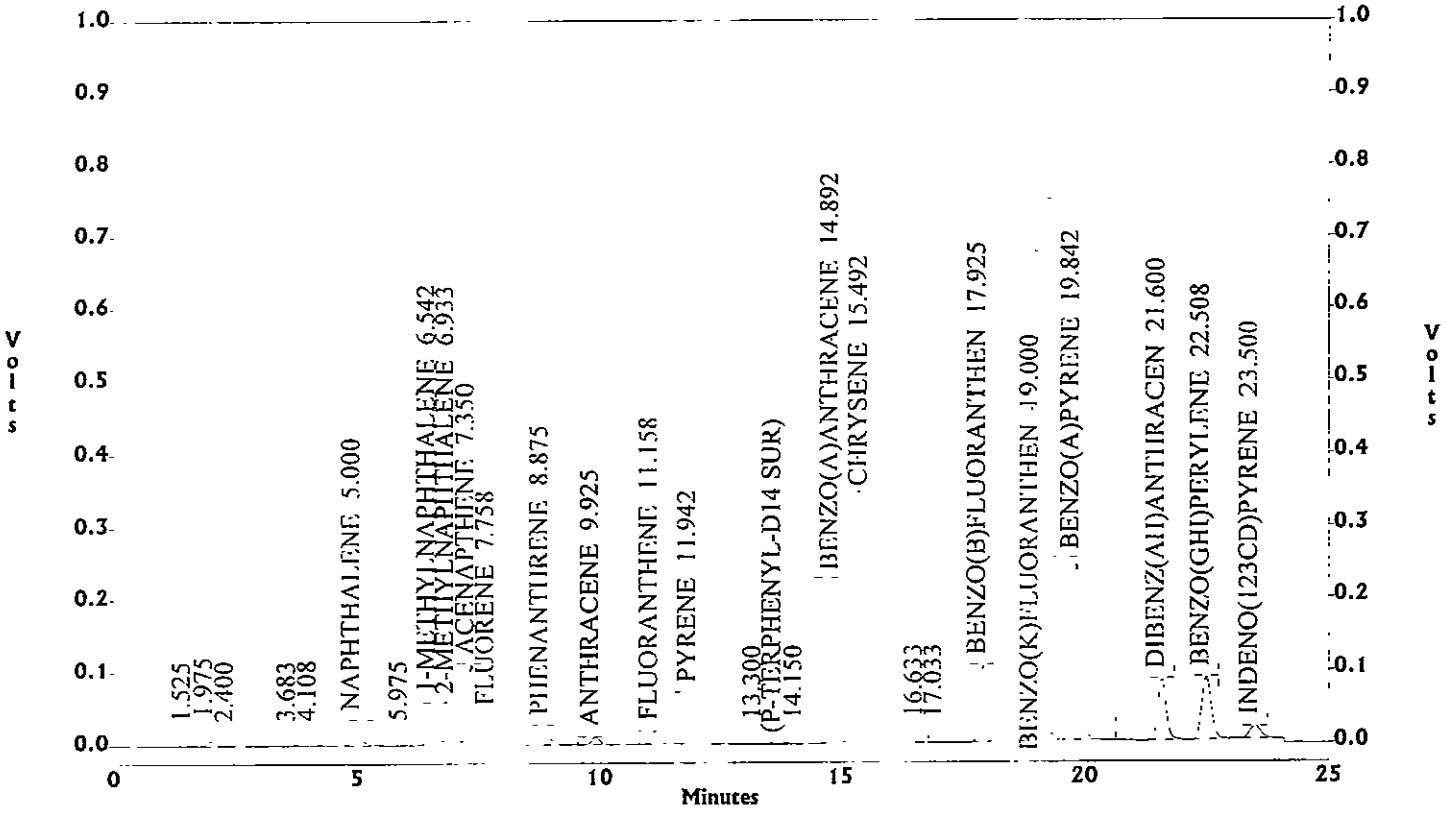
HPLC 1

File : c:\ezchromb\chrom\1008ic3.015
Method : c:\ezchromb\methods\lc1\l3ph0918.met
Sample ID : 1.Cppm(5-w-sn-29-4)
Acquired : Oct 08, 2000 14:05:56
Printed : Oct 10, 2000 07:49:02
User : System

c:\ezchromb\chrom\1008lc3.015 -- Channel A



c:\ezchromb\chrom\1008lc3.015 -- Channel B



HPLC 1

File : c:\ezchromb\chrom\10081c3.015
Method : c:\ezchromb\methods\lc1\13ph0918.met
Sample ID : 1.0ppm(5-w-sn-29-4)
Acquired : Oct 08, 2000 14:05:56
Printed : Oct 10, 2000 07:49:02
User : System

Channel A Results

Peak Name	Time	Area	Conc.
NAPHTHALENE	4.90	2317	1.06
ACENAPHTYLENE	5.75	1604	1.09
1-METHYLNAPHT	6.43	1253	1.05
2-METHYLNAPHT	6.83	1676	1.04
ACENAPTHENE	7.25	632	0.87
FLUORENE	7.66	8480	0.96
PHENANTHRENE	8.77	26642	0.94
ANTHRACENE	9.82	62756	0.96
FLUORANTHENE	11.05	6151	0.94
PYRENE	11.84	4879	0.91
P-TERPHENYL-D	13.38	501	0.08
BENZO(A)ANTHR	14.78	12812	0.92
CHRYSENE	15.38	17023	0.89
BENZO(B)FLUOR	17.83	14454	0.91
BENZO(K)FLOUR	18.89	12462	0.91
BENZO(A)PYREN	19.73	12371	0.90
DIBENZ(AH)ANT	21.49	3151	1.21
BENZO(GHI)PER	22.40	5204	0.92
INDENO(123CD)	23.39	15819	0.92

Channel B Results

Name	Time	Area	Conc.
NAPHTHALENE	5.00	345597	1.00
1-METHYLNAPHT	6.54	571244	0.98
2-METHYLNAPHT	6.93	516610	1.00
ACENAPTHENE	7.35	1092436	0.91
FLUORENE	7.76	362993	0.93
PHENANTHRENE	8.88	297258	0.98
ANTHRACENE	9.93	120295	0.90
FLUORANTHENE	11.16	193917	0.89
PYRENE	11.94	742559	0.94
P-TERPHENYL-D	13.70	0	0.00
BENZO(A)ANTHR	14.89	2267371	0.87
CHRYSENE	15.49	3537105	0.86
BENZO(B)FLUOR	17.92	1123756	0.84
BENZO(K)FLUOR	19.00	7822833	0.90
BENZO(A)PYREN	19.84	2644266	0.86
DIBENZ(AH)ANT	21.60	1007092	0.86
BENZO(GHI)PER	22.51	1168414	0.87
INDENO(123CD)	23.50	262341	0.83

TestAmerica
INCORPORATED

Sample Identification

BLANK

Matrix: Water
% Dry Weight:
Units: UG/L
Dilution Factor: 1
Analysis Method: SW8310
Delivery Group: 209998
Instrument:
Vol Extracted: 1000 ml
Extract Vol: 1.0 ml

Lab Sample ID: BLANK
Date Sampled: 9/28/00
Date Received: 9/30/00
Analysis Date: 10/ 8/00
Analysis Time: 8:~~51~~ 825 KC
Sample QC Group: 445

Extraction Date:

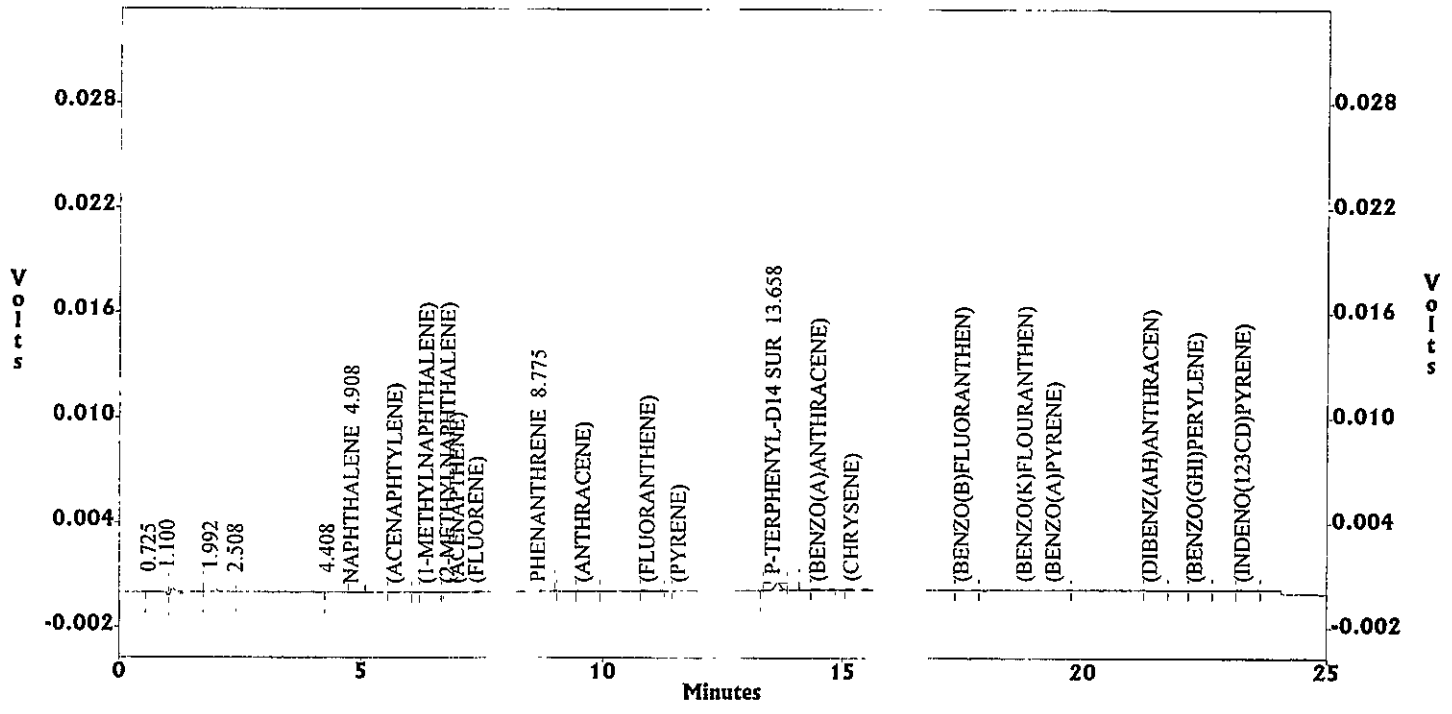
FORM I

CAS NUMBER	ANALYTE	CONCENTRATION		FLAG
91-20-3	Naphthalene	1.00	....	U
83-32-9	Acenaphthene	0.20	....	U
120-12-7	Anthracene	0.20	....	U
206-44-0	Fluoranthene	0.20	....	U
7782-41-4	Fluorene	0.20	....	U
129-00-0	Pyrene	0.20	....	U
56-55-3	Benzo(a)anthracene	0.05	....	U
50-32-8	Benzo(a)pyrene	0.10	....	U
205-99-2	Benzo(b)fluoranthene	0.18	....	U
207-08-9	Benzo(k)fluoranthene	0.17	....	U
218-01-9	Chrysene	0.15	....	U
53-70-3	Dibenzo(a,h)anthracene	0.20	....	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.40	....	U
208-96-8	Acenaphthylene	0.20	....	U
191-24-2	Benzo(g,h,i)perylene	0.20	....	U
85-01-8	Phenanthrene	0.20	....	U
90-12-0	1-Methylnapthalene	1.00	....	U
91-57-6	2-Methylnaphthalene	1.00	....	U

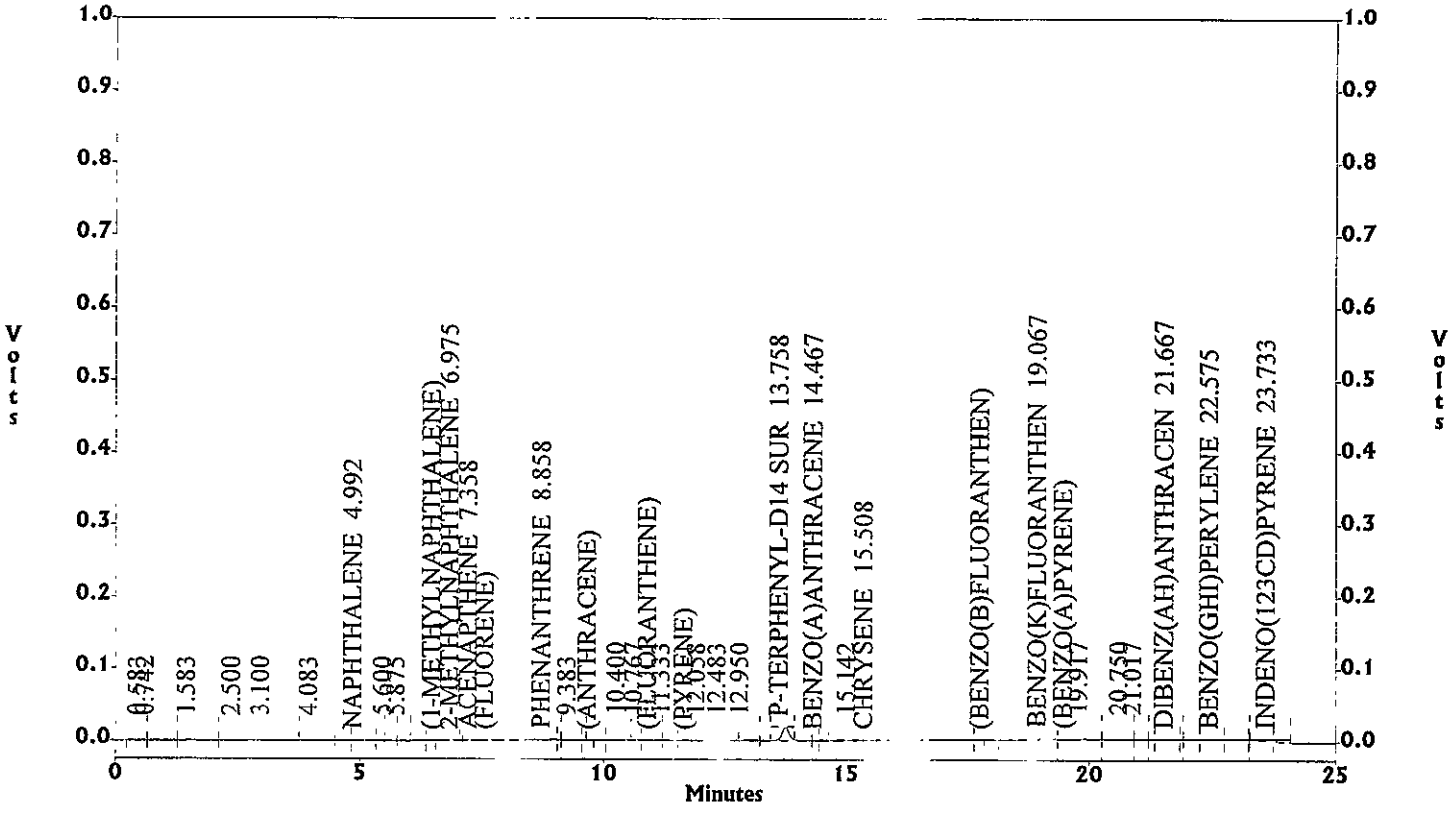
HPLC 1

File : c:\ezchromb\chrom\10081c3.002
Method : c:\ezchromb\methods\lc1\13ph0918.met
Sample ID : 31448 wbb
Acquired : Oct 08, 2000 08:25:02
Printed : Oct 09, 2000 07:22:20
User : System

c:\ezchromb\chrom\10081c3.002 -- Channel A



c:\ezchromb\chrom\10081c3.002 -- Channel B



HPLC 1

File : c:\ezchromb\chrom\10081c3.002
Method : c:\ezchromb\methods\lc1\13ph0918.met
Sample ID : 31448 wbb
Acquired : Oct 08, 2000 08:25:02
Printed : Oct 09, 2000 07:22:20
User : System

Channel A Results

Peak Name	Time	Area	Conc.
NAPHTHALENE	4.91	79	0.00
ACENAPHTYLENE	5.80	0	0.00
1-METHYLNAPHT	6.45	0	0.00
2-METHYLNAPHT	6.90	0	0.00
ACENAPTHENE	7.10	0	0.00
FLUORENE	7.50	0	0.00
PHENANTHRENE	8.77	797	0.00
ANTHRACENE	9.70	0	0.00
FLUORANTHENE	11.05	0	0.00
PYRENE	11.70	0	0.00
P-TERPHENYL-D	13.66	3803	0.68
BENZO(A)ANTHR	14.60	0	0.00
CHRYSENE	15.30	0	0.00
BENZO(B)FLUOR	17.60	0	0.00
BENZO(K)FLUOR	18.90	0	0.00
BENZO(A)PYREN	19.50	0	0.00
DIBENZ(AH)ANT	21.50	0	0.00
BENZO(GHI)PER	22.42	0	0.00
INDENO(123CD)	23.40	0	0.00

Channel B Results

Name	Time	Area	Conc.
NAPHTHALENE	4.99	21532	0.00
1-METHYLNAPHT	6.60	0	0.00
2-METHYLNAPHT	6.97	7628	0.14
ACENAPTHENE	7.36	8377	0.01
FLUORENE	7.70	0	0.00
PHENANTHRENE	8.86	20454	0.00
ANTHRACENE	9.80	0	0.00
FLUORANTHENE	11.05	0	0.00
PYRENE	11.80	0	0.00
P-TERPHENYL-D	13.76	197233	0.76
BENZO(A)ANTHR	14.47	2733	0.01
CHRYSENE	15.51	14522	0.00
BENZO(B)FLUOR	17.90	0	0.00
BENZO(K)FLUOR	19.07	29319	0.00
BENZO(A)PYREN	19.60	0	0.00
DIBENZ(AH)ANT	21.67	5026	0.02
BENZO(GHI)PER	22.58	12325	0.02
INDENO(123CD)	23.73	103697	0.33

1C SAMPLE NO.

8310 PAH ANALYSIS DATA SHEET

BLANK MS

Lab Name:	Test America	**Lab Sample ID:**	31449 wsb
SDG #:	209998	**Lab File ID:**	1008lc3.011
Matrix: (soil/water)	Water	**Date Analyzed:**	10/8/00
Extract Volume:	1000 ml	**Date Received:**	09/30/00
Volume Extracted:	1 ml	**Extraction Date:**	10/03/00
HPLC Column:	Reverse Pahse c18	**Injection Volume:**	5.0 ul

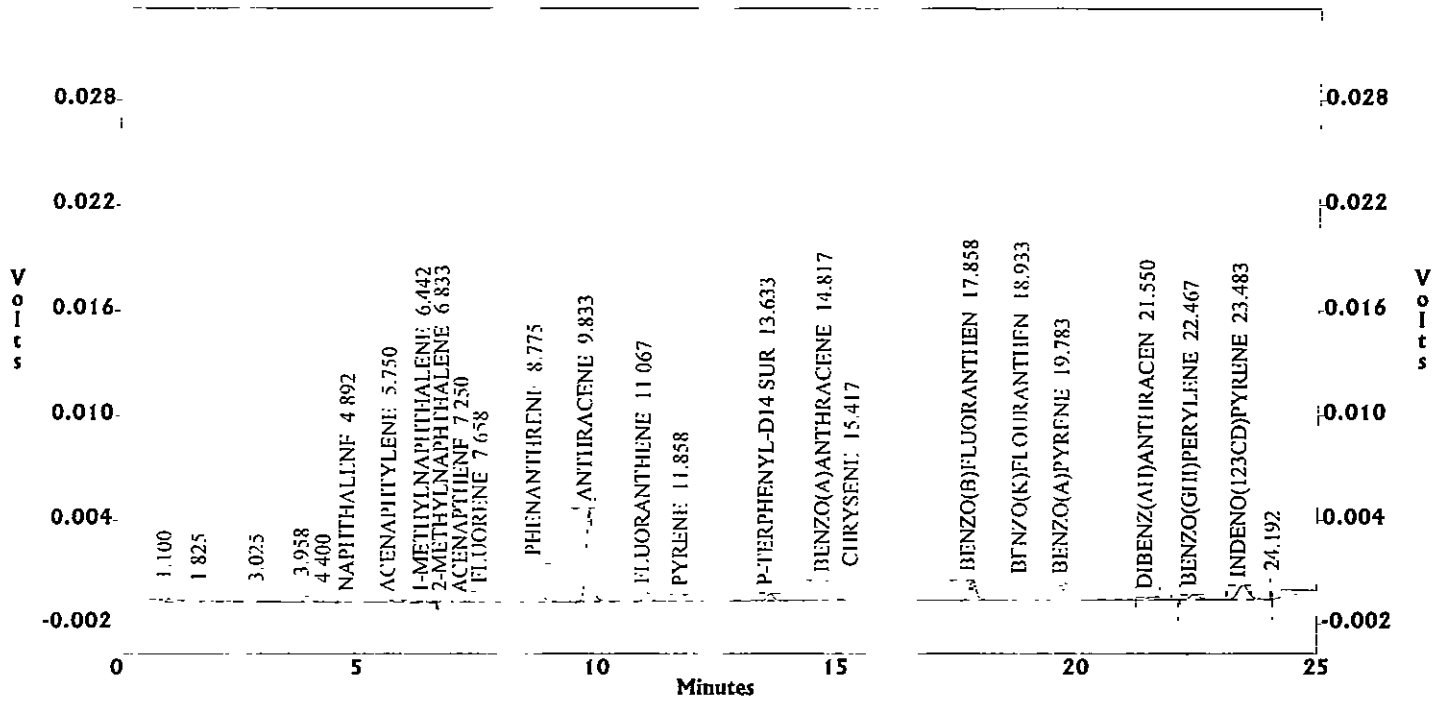
Concentration Units:

CAS No.	Compound		ug/L		Q
	Napthalene		0.70		
	Acenapthylene		0.81		
	1-Methyl-naphthalene				
	2-Methyl-naphthalene				
	Acenapthene		0.58		
	Flourene		0.69		
	Phenanthrene		0.74		
	Anthracene		0.74		
	Flouranthene		0.74		
	Pyrene		0.70		
	Benzo(a)anthracene		0.76		
	Chrysene		0.73		
	Benzo(b)flouranthene		0.73		
	Benzo(k)flouranthene		0.75		
	Benzo(a)pyrene		0.74		
	Dibenz(ah)anthracene		0.90		
	Benzo(ghi)Perylene		0.76		
	Indeno(123cd)pyrene		0.74		

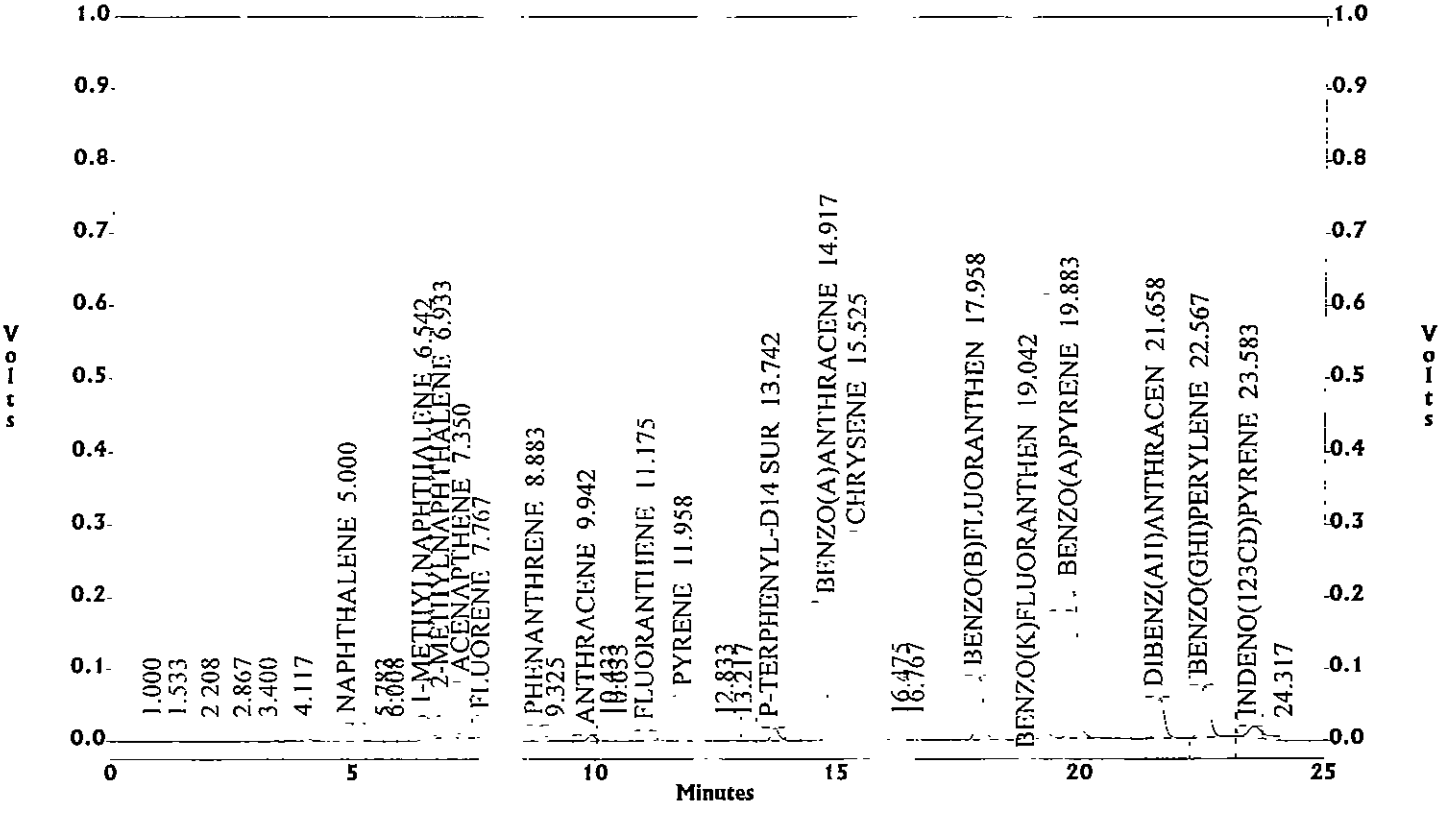
HPLC 1

File : c:\ezchromb\chrom\1008ic3.011
Method : c:\ezchromb\methods\lc1\13ph0918.met
Sample ID : 31449 wsb
Acquired : Oct 08, 2000 12:21:01
Printed : Oct 09, 2000 07:22:46
User : System

c:\ezchromb\chrom\1008ic3.011 -- Channel A



c:\ezchromb\chrom\1008ic3.011 -- Channel B



HPLC 1

File : c:\ezchromb\chrom\10081c3.011
Method : c:\ezchromb\methods\lc1\l3ph0918.met
Sample ID : 31449 wsb
Acquired : Oct 08, 2000 12:21:01
Printed : Oct 09, 2000 07:22:46
User : System

Channel A Results

Peak Name	Time	Area	Conc.
NAPHTHALENE	4.89	1635	0.70
ACENAPHTYLENE	5.75	1237	0.81
1-METHYLNAPHT	6.44	729	0.60
2-METHYLNAPHT	6.83	1798	1.12
ACENAPTHENE	7.25	445	0.58
FLUORENE	7.66	6309	0.69
PHENANTHRENE	8.77	21408	0.74
ANTHRACENE	9.83	49922	0.74
FLUORANTHENE	11.07	4954	0.74
PYRENE	11.86	3892	0.70
P-TERPHENYL-D	13.63	4039	0.72
BENZO(A)ANTHR	14.82	10628	0.76
CHRYSENE	15.42	13951	0.73
BENZO(B)FLUOR	17.86	11593	0.73
BENZO(K)FLOUR	18.93	10188	0.75
BENZO(A)PYREN	19.78	10112	0.74
DIBENZ(AH)ANT	21.55	2298	0.90
BENZO(GHI)PER	22.47	4253	0.76
INDENO(123CD)	23.48	12666	0.74

Channel B Results

Name	Time	Area	Conc.
NAPHTHALENE	5.00	255154	0.72
1-METHYLNAPHT	6.54	335111	0.60
2-METHYLNAPHT	6.93	575733	1.10
ACENAPTHENE	7.35	795526	0.66
FLUORENE	7.77	272159	0.67
PHENANTHRENE	8.88	234115	0.75
ANTHRACENE	9.94	97035	0.69
FLUORANTHENE	11.18	163965	0.74
PYRENE	11.96	652848	0.83
P-TERPHENYL-D	13.74	186488	0.72
BENZO(A)ANTHR	14.92	1925970	0.74
CHRYSENE	15.52	2971410	0.72
BENZO(B)FLUOR	17.96	936192	0.70
BENZO(K)FLUOR	19.04	6440237	0.74
BENZO(A)PYREN	19.88	2269281	0.74
DIBENZ(AH)ANT	21.66	686682	0.59
BENZO(GHI)PER	22.57	990026	0.74
INDENO(123CD)	23.58	382686	1.22

1C SAMPLE NO

8310 PAH ANALYSIS DATA SHEET

BLANK MS

Lab Name:	Test America	**Lab Sample ID:**	31550 wsb
SDG #:	209998	**Lab File ID:**	1008lc3.013
Matrix: (soil/water)	Water	**Date Analyzed:**	10/08/00
Extract Volume:	1000 ml	**Date Received:**	09/30/00
Volume Extracted:	1 ml	**Extraction Date:**	10/03/00
HPLC Column:	Reverse Pahse c18	**Injection Volume:**	5.0 ul

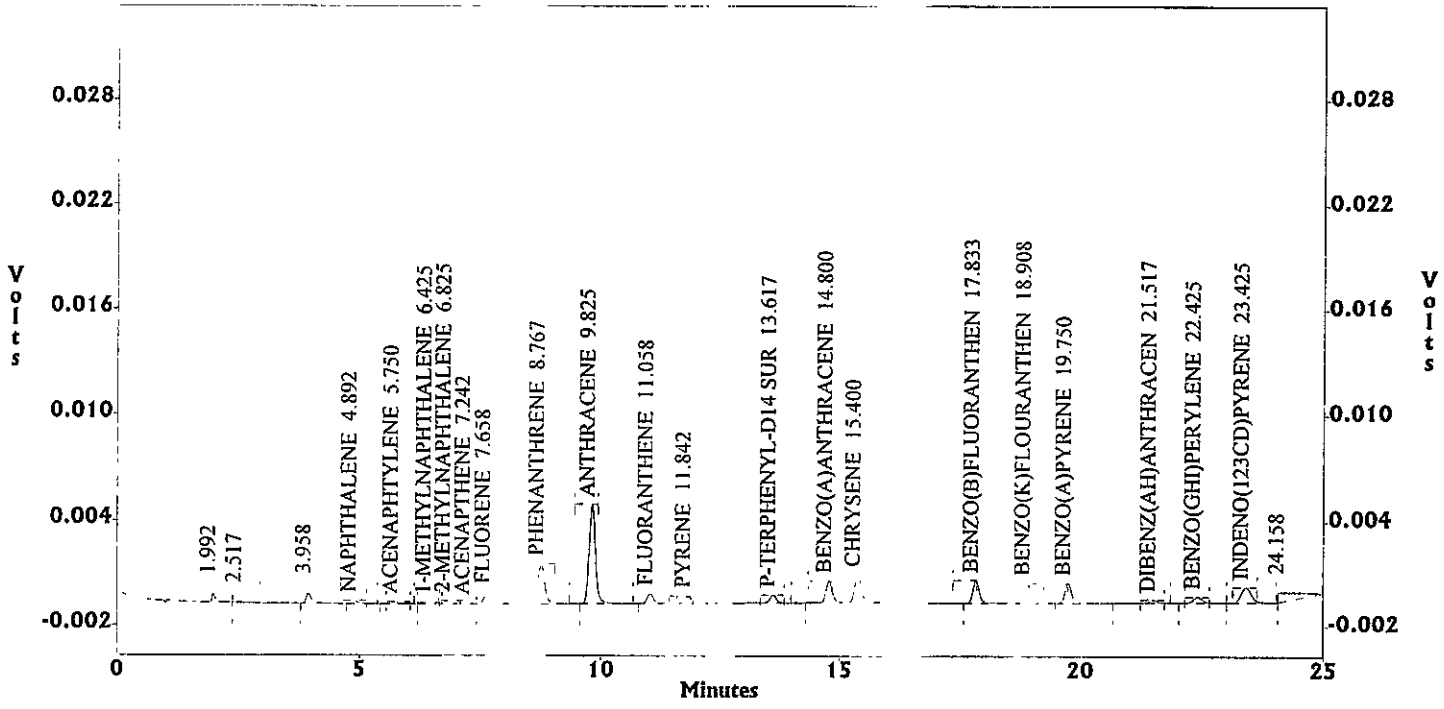
Concentration Units:

CAS No.	Compound		ug/L		Q
	Napthalene		0.74		
	Acenapthylene		0.88		
	1-Methyl-naphthalene				
	2-Methyl-naphthalene				
	Acenapthene		0.66		
	Flourene		0.76		
	Phenanthrene		0.77		
	Anthracene		0.78		
	Flouranthene		0.78		
	Pyrene		0.77		
	Benzo(a)anthracene		0.82		
	Chrysene		0.79		
	Benzo(b)flouranthene		0.79		
	Benzo(k)flouranthene		0.79		
	Benzo(a)pyrene		0.80		
	Dibenz(ah)anthracene		0.85		
	Benzo(ghi)Perylene		0.79		
	Indeno(123cd)pyrene		0.79		

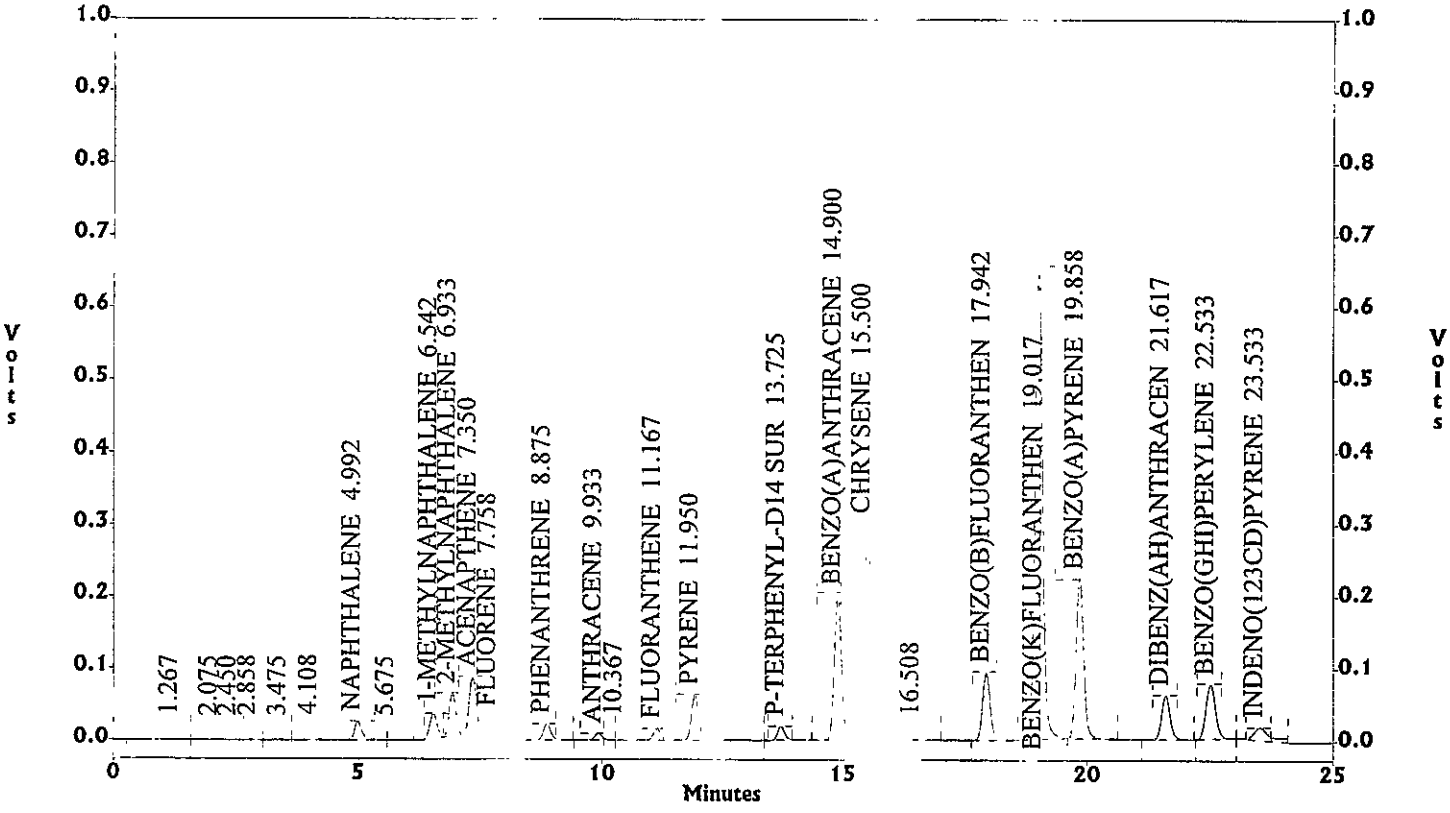
HPLC 1

File : c:\ezchromb\chrom\1008lc3.013
Method : c:\ezchromb\methods\lc1\13ph0918.met
Sample ID : 31550 wsb
Acquired : Oct 08, 2000 13:13:29
Printed : Oct 09, 2000 07:22:50
User : System

c:\ezchromb\chrom\1008lc3.013 -- Channel A



c:\ezchromb\chrom\1008lc3.013 -- Channel B



HPLC 1

File : c:\ezchromb\chrom\10081c3.013
Method : c:\ezchromb\methods\lc1\l3ph0918.met
Sample ID : 31550 wsb
Acquired : Oct 08, 2000 13:13:29
Printed : Oct 09, 2000 07:22:51
User : System

Channel A Results

Peak Name	Time	Area	Conc.
NAPHTHALENE	4.89	1702	0.74
ACENAPHTYLENE	5.75	1319	0.89
1-METHYLNAPHT	6.43	749	0.62
2-METHYLNAPHT	6.82	1921	1.20
ACENAPTHENE	7.24	496	0.66
FLUORENE	7.66	6886	0.76
PHENANTHRENE	8.77	22247	0.77
ANTHRACENE	9.82	52458	0.78
FLUORANTHENE	11.06	5221	0.78
PYRENE	11.84	4211	0.77
P-TERPHENYL-D	13.62	4558	0.82
BENZO(A)ANTHR	14.80	11416	0.82
CHRYSENE	15.40	15086	0.79
BENZO(B)FLUOR	17.83	12546	0.79
BENZO(K)FLUOR	18.91	10866	0.79
BENZO(A)PYREN	19.75	11013	0.80
DIBENZ(AH)ANT	21.52	2177	0.85
BENZO(GHI)PER	22.42	4450	0.79
INDENO(123CD)	23.42	13529	0.79

Channel B Results

Name	Time	Area	Conc.
NAPHTHALENE	4.99	258850	0.73
1-METHYLNAPHT	6.54	355038	0.63
2-METHYLNAPHT	6.93	611582	1.16
ACENAPTHENE	7.35	854519	0.71
FLUORENE	7.76	291191	0.73
PHENANTHRENE	8.88	239778	0.77
ANTHRACENE	9.93	107741	0.79
FLUORANTHENE	11.17	170927	0.77
PYRENE	11.95	691158	0.87
P-TERPHENYL-D	13.73	206797	0.80
BENZO(A)ANTHR	14.90	2028856	0.78
CHRYSENE	15.50	3116882	0.75
BENZO(B)FLUOR	17.94	985205	0.74
BENZO(K)FLUOR	19.02	6853959	0.78
BENZO(A)PYREN	19.86	2377211	0.78
DIBENZ(AH)ANT	21.62	722838	0.62
BENZO(GHI)PER	22.53	1018807	0.76
INDENO(123CD)	23.53	410132	1.30

1C SAMPLE NO

8310 PAH ANALYSIS DATA SHEET

CONTROL W

Lab Name:	Test America	**Lab Sample ID:**	24628 lcs
SDG #:	209998	**Lab File ID:**	1008lc3.014
Matrix: (soil/water)	Water	**Date Analyzed:**	10/08/00
Extract Volume:	1000 ml	**Date Received:**	09/30/00
Volume Extracted:	1 ml	**Extraction Date:**	10/03/00
HPLC Column:	Reverse Pahse c18	**Injection Volume:**	5.0 ul

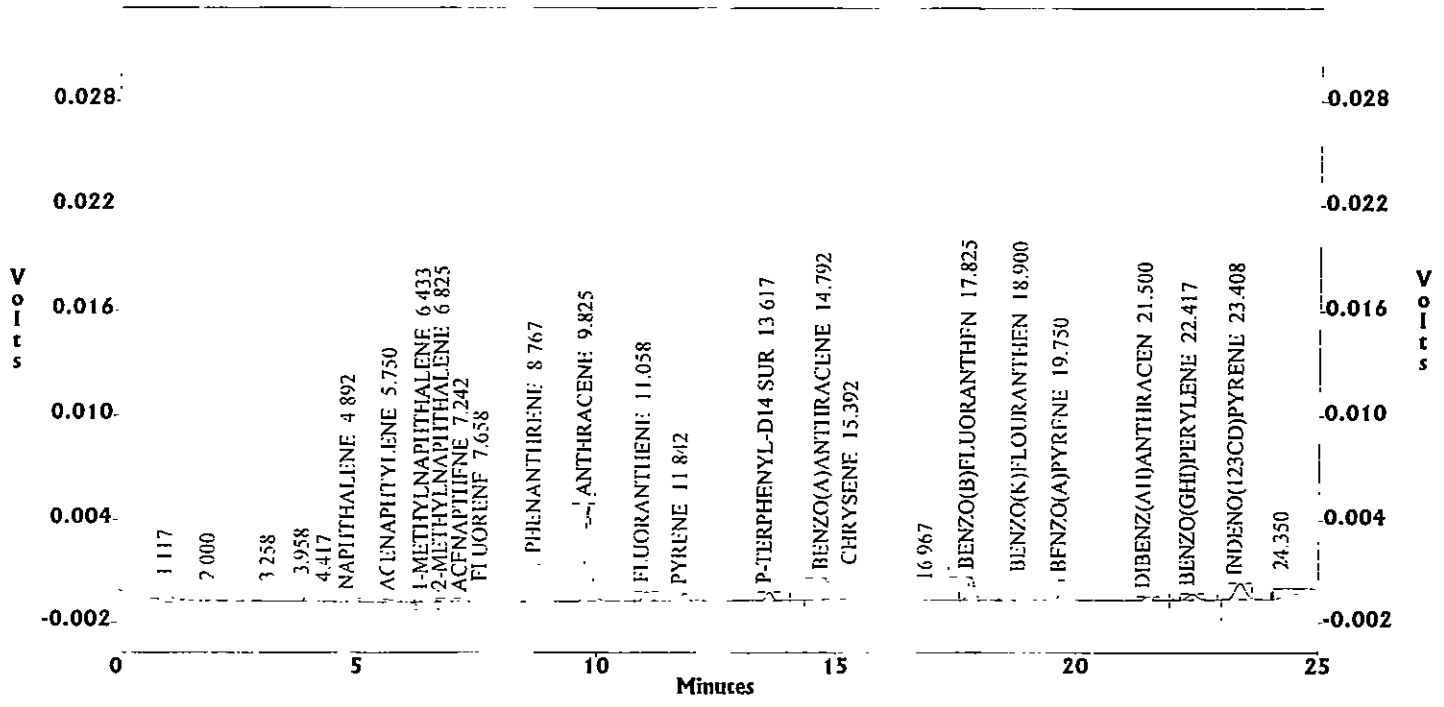
Concentration Units: ug/L

CAS No.	Compound				Q
	Napthalene		0.81		
	Acenapthylene		0.88		
	1-Methyl-naphthalene				
	2-Methyl-naphthalene				
	Acenapthene		0.64		
	Flourene		0.76		
	Phenanthrene		0.80		
	Anthracene		0.78		
	Flouranthene		0.80		
	Pyrene		0.78		
	Benzo(a)anthracene		0.82		
	Chrysene		0.78		
	Benzo(b)flouranthene		0.81		
	Benzo(k)flouranthene		0.81		
	Benzo(a)pyrene		0.85		
	Dibenz(ah)anthracene		0.94		
	Benzo(ghi)Perylene		0.82		
	Indeno(123cd)pyrene		0.82		

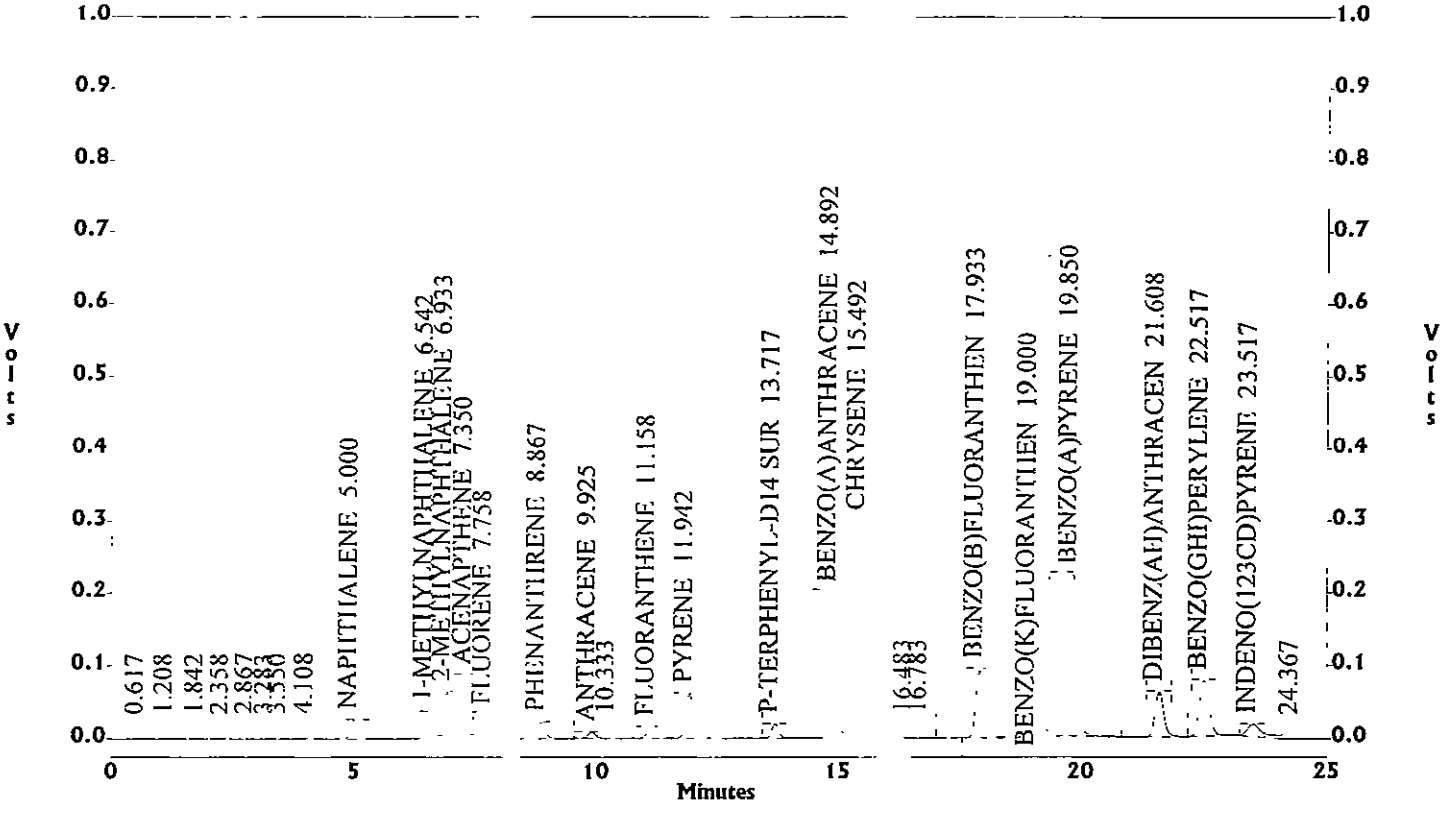
HPLC 1

File : c:\ezchromb\chrom\1008lc3.014
Method : c:\ezchromb\methods\lc1\13ph0918.met
Sample ID : 24628 lcs
Acquired : Oct 08, 2000 13:39:43
Printed : Oct 09, 2000 07:22:53
User : System

c:\ezchromb\chrom\1008lc3.014 -- Channel A



c:\ezchromb\chrom\1008lc3.014 -- Channel B



HPLC 1

File : c:\ezchromb\chrom\10081c3.014
Method : c:\ezchromb\methods\lc1\l3ph0918.met
Sample ID : 24628 lcs
Acquired : Oct 08, 2000 13:39:43
Printed : Oct 09, 2000 07:22:53
User : System

Channel A Results

Peak Name	Time	Area	Conc.
NAPHTHALENE	4.89	1829	0.81
ACENAPHTYLENE	5.75	1330	0.88
1-METHYLNAPHT	6.43	794	0.66
2-METHYLNAPHT	6.82	2001	1.25
ACENAPTHENE	7.24	486	0.64
FLUORENE	7.66	6888	0.76
PHENANTHRENE	8.77	23058	0.80
ANTHRACENE	9.82	52744	0.78
FLUORANTHENE	11.06	5338	0.80
PYRENE	11.84	4268	0.78
P-TERPHENYL-D	13.62	4845	0.87
BENZO(A)ANTHR	14.79	11458	0.82
CHRYSENE	15.39	14922	0.78
BENZO(B)FLUOR	17.83	12886	0.81
BENZO(K)FLOUR	18.90	11091	0.81
BENZO(A)PYREN	19.75	11115	0.81
DIBENZ(AH)ANT	21.50	2411	0.94
BENZO(GHI)PER	22.42	4607	0.82
INDENO(123CD)	23.41	14005	0.82

Channel B Results

Name	Time	Area	Conc.
NAPHTHALENE	5.00	269326	0.77
1-METHYLNAPHT	6.54	359756	0.64
2-METHYLNAPHT	6.93	616764	1.17
ACENAPTHENE	7.35	856687	0.71
FLUORENE	7.76	294687	0.74
PHENANTHRENE	8.87	245440	0.79
ANTHRACENE	9.93	101936	0.74
FLUORANTHENE	11.16	184883	0.85
PYRENE	11.94	658573	0.83
P-TERPHENYL-D	13.72	222013	0.86
BENZO(A)ANTHR	14.89	2025936	0.78
CHRYSENE	15.49	3113467	0.75
BENZO(B)FLUOR	17.93	996909	0.75
BENZO(K)FLUOR	19.00	6946268	0.80
BENZO(A)PYREN	19.85	2390689	0.78
DIBENZ(AH)ANT	21.61	739168	0.63
BENZO(GHI)PER	22.52	1042785	0.78
INDENO(123CD)	23.52	383514	1.22

1.0ppm(5-w-sn-29-4)	l3ph0918.met	1008lc3.001
31448 wbb	l3ph0918.met	1008lc3.002
139645 CEF-103: SMW-01	l3ph0918.met	1008lc3.003
139646 CEF-103: SMW-02	l3ph0918.met	1008lc3.004
139647 CEF-103: SMW-03	l3ph0918.met	1008lc3.005
139648 CEF-103: SMW-07	l3ph0918.met	1008lc3.006
139649 CEF-103: SMW-10	l3ph0918.met	1008lc3.007
139650 CEF-103: SMW-11	l3ph0918.met	1008lc3.008
139651 CEF-103: 029-DUP	l3ph0918.met	1008lc3.009
139652 CEF-103: 029-EQB	l3ph0918.met	1008lc3.010
31449 wsb	l3ph0918.met	1008lc3.011
1.0ppm(5-w-sn-29-4)	l3ph0918.met	1008lc3.012
31550 wsb	l3ph0918.met	1008lc3.013
24628 lcs	l3ph0918.met	1008lc3.014
1.0ppm(5-w-sn-29-4)	l3ph0918.met	1008lc3.015
14074 sbb	l3ph0918.met	1008lc3.016
14075 ssb	l3ph0918.met	1008lc3.017
14076 ssb	l3ph0918.met	1008lc3.018
28936 lcs	l3ph0918.met	1008lc3.019
142385	l3ph0918.met	1008lc3.020
142386	l3ph0918.met	1008lc3.021
142387x50(10u+490u)	l3ph0918.met	1008lc3.022
14080 sbb	l3ph0918.met	1008lc3.023
24938 lcs	l3ph0918.met	1008lc3.024
142515x100(5u+495u)	l3ph0918.met	1008lc3.025
1.0ppm(5-w-sn-29-4)	l3ph0918.met	1008lc3.026
142516	l3ph0918.met	1008lc3.027
142517	l3ph0918.met	1008lc3.028
142518	l3ph0918.met	1008lc3.029
142519	l3ph0918.met	1008lc3.030
14224 sbb	l3ph0918.met	1008lc3.031
28986 lcs	l3ph0918.met	1008lc3.032
143211	l3ph0918.met	1008lc3.033
143212	l3ph0918.met	1008lc3.034
143213	l3ph0918.met	1008lc3.035
143214	l3ph0918.met	1008lc3.036
1.0ppm(5-w-sn-29-4)	l3ph0918.met	1008lc3.037
143215	l3ph0918.met	1008lc3.038
13987 wbb	l3ph0918.met	1008lc3.039
13988 wsb	l3ph0918.met	1008lc3.040
13989 wsb	l3ph0918.met	1008lc3.041
27802 lcs	l3ph0918.met	1008lc3.042
142132	l3ph0918.met	1008lc3.043
142133	l3ph0918.met	1008lc3.044
142134	l3ph0918.met	1008lc3.045
142135	l3ph0918.met	1008lc3.046
142136	l3ph0918.met	1008lc3.047
1.0ppm(5-w-sn-29-4)	l3ph0918.met	1008lc3.048
141998	l3ph0918.met	1008lc3.049
1.0ppm(5-w-sn-29-4)	l3ph0918.met	1008lc3.050
142387x5(100u+400u)	l3ph0918.met	1008lc3.051
1.0ppm(5-w-sn-29-4)	l3ph0918.met	1008lc3.052

ACCEPTED
ACCEPTED

HPLC PAH EXTRACTIONS -- WATER

Worklist #: 6869 Date Created: 9/30/00

Analyst: M.McBride Date Extracted: 10/3/00 PA

Position	Sample ID	Extraction	Vol Ext'd	Ext. Vol
1.	blank		1000	1.0
2.	00-A139645		960	
	SW-846 DOC LEVEL IV			
3.	00-A139646		960	
	SW-846 DOC LEVEL IV			
4.	00-A139647		950	
	SW-846 DOC LEVEL IV			
5.	00-A139648		700	
	SW-846 DOC LEVEL IV			
6.	00-A139649		900	
	SW-846 DOC LEVEL IV			
7.	00-A139650		950	
	SW-846 DOC LEVEL IV			
8.	00-A139651		960	
	SW-846 DOC LEVEL IV			

HPLC PAH EXTRACTIONS -- WATER

Worklist #: 6869 Date Created: 9/30/00

Analyst: M.McBride Date Extracted:

Position	Sample ID	Extraction	Vol Ext'd	Ext. Vol
9.	CO-A129652		980	10

SW-846 DOC LEVEL IV

10.	Spike	Original: 1	Spike Solution: 1000	
11.	msdkdup	Original: 10	Spike Solution: 1000	
12.	known	Laboratory Control Sample:	1000	

METHYLENE CHLORIDE: PSRJ76-1
ACETONE:
HEXANE:
DIETHYL ETHER:
1,1,2-TRICHLOROTRIFLUOROETHANE (freon):
METHANOL:
ACETONITRILE: DCDM33-1
SILICA GEL:
TOLUENE:
SODIUM CHLORIDE:
PENTANE:
FLORISIL:
SODIUM HYDROXIDE:
SULFURIC ACID:
SODIUM SULFATE(anhydrous): DTJR73-1
HYDROCHLORIC ACID:
EDTA:
BORON TRIFLUORIDE/METHANOL(BF-3):
SODIUM SULFATE (aqueous):
POTASSIUM HYDROXIDE(37%):
SULFURIC ACID(25%):
HEXANE/ACETONE MIX (70:30):

SURROGATE: SWSN7-1 1ml TA

SPIKE: SWSN-29-4

LCS: "

Oil and Grease Water Bath Temperature:

Soxhlet Extraction Start Time:---------- Finish Time:----------

pH adjustment: NaOH addition:----------Sulfuric Acid addition:----------

Secondary verification of Samples, Spike, Surrogate, LCS and extraction date by: 10/3/00

[illegible] PAH EXTRACTIONS -- WATER

Worklist #: [illegible] Date Created: [illegible]

Analyst: D.Yeager Date Extracted: [illegible]

Position	Sample ID	Extraction	Vol Extd	Ext. Vol
1.	blank	Completed	1000	1.00
2.	00-A139645	Completed	960.	1.00

SW-846 DOD LEVEL IV
MB/PSD THIS SAMPLE

3.	00-A139646	Completed	960.	1.00

SW-846 DOD LEVEL IV

4.	00-A139647	Completed	550.	1.00

SW-846 DOD LEVEL IV

5.	00-A139648	Completed	700.	1.00

SW-846 DOD LEVEL IV

6.	00-A139649	Completed	900.	1.00

SW-846 DOD LEVEL IV

7	00-A139650	Completed	950.	1.00

SW-846 DOD LEVEL IV

8	00-A139651	Completed	960	1.00

SW-846 DOD LEVEL IV

HPLC PAH EXTRACTIONS --- WATER

Worklist #: 6969 Date Created: 9/30/00

Analyst: D.Yeager Date Extracted: 10/ 3/00

Position	Sample ID	Extraction	Vol Ext'd	Ext. Vol
9.	00-A139652	Completed	980.	1.00
SW-846 DOC LEVEL IV				
10.	Spike	Original: 1		Spike Solution:_____
		Completed	1000	1.00
11.	mspkdup	Original: 10		Spike Solution:_____
		Completed	1000	1.00
12.	known	Laboratory Control Sample: _____		
		Completed	1000	1.00

pH SW846 9040

RAW DATA

TEST AMERICA, INC.
2960 FOSTER CREIGHTON DRIVE
NASHVILLE, TN 37204
1-800-765-0980

pH

Analyst: M.McBride

Analysis Date:

Worklist No.: 6870

Date Created: 9/30/00

Pos	Sample	Date	Time		pH	Soil Type
1.	00-A139643	9/31/00	16:20	liquid	7.0	
				solid	Not Requested	

Pos	Sample	Date	Time		pH	Soil Type
2.	00-A139646	9/30/00	16:20	liquid	6.8	
				solid	Not Requested	

Pos	Sample	Date	Time		pH	Soil Type
3.	00-A139647	9/30/00	16:20	liquid	6.3	
				solid	Not Requested	

Pos	Sample	Date	Time		pH	Soil Type
4.	00-A139648	9/30/00	16:20	liquid	6.9	
				solid	Not Requested	

pH

Analyst: M.McBride

Analysis Date:

Worklist No.: 6870

Date Created: 9/30/00

Pos	Sample	Date	Time		pH	Soil Type
5.	00-A139649	9/30/00	16:25	liquid	5.2	
				solid	Not Requested	

Pos	Sample	Date	Time		pH	Soil Type
6.	00-A139650	9/30/00	16:25	liquid	6.9	
				solid	Not Requested	

Pos	Sample	Date	Time		pH	Soil Type
7.	00-A139651	9/30/00	16:30	liquid	4.6	
				solid	Not Requested	

Pos	Sample	Date	Time		pH	Soil Type
8.	00-A139652	9/30/00	16:30	liquid	6.8	
				solid	Not Requested	

pH

Analyst: M.McBride

Analysis Date:

Worklist No.: 6670

Date Created: 9/30/00

9. Duplicate Original: 1

liquid 7.0 Diff: _____

RD : _____

KB

Date: 9/30/00 Daily pH Meter Run Log - ~~Soil~~ Water

pH Meter A

Buffers	pH
4-21	4.00
7-24	7.00
10-12	10.00
ICV7-6	7.00

Run #	Sample ID	pH	Temp.
ICV	7-7	7.00	24
1	139615	6.0	24
2	139617	8.2	24
3	139619	5.4	24
4	139622	6.1	24
5	139418	~~7.4~~ 7.6	24
KB 9/30/00 Duplicate	139418	~~7.4~~ 7.6	24
6	139645	7.0	24
Duplicate	139645	7.0	24
7	139647	6.3	24
8	139649	5.2	24
9	139651	4.6	24
ICV	7-7	7.00	24

pH Meter B

Buffers	pH
4-21	4.00
7-24	7.00
10-12	10.00
ICV7-6	7.00

Run #	Sample ID	pH	Temp.
ICV	7-7	~~7~~.00	24
1	139616	5.9	24
2	139618	6.2	24
3	139621	6.0	24
Duplicate	139622	6.1	24
4	139646	6.8	24
5	139648	6.9	24
6	139650	6.9	24
7	139652	6.8	24
ICV	7-7	7.00	24

ACCURA ANALYTICAL LABORATORY, INC.
Environmental Analytical Services # 8009

FAX COC TO NORCROSS

SUBCONTRACTOR CHAIN OF CUSTODY

SUBCONTRACTED TO: Test America

Subcontracted by: ACCURA ANALYTICAL LABORATORY, INC
Address: 6017 Financial Drive, Norcross, GA 30071
Accura Lab Contact Name: David Fuller
Contact Phone # (770) 449 - 8800, ext.
Fax Number: (770) 449 - 5477

AAL PROJECT # 25726 / CTO 0029

209998

For Laboratory Use Only

Custody Seal: Y (N)
QC Level: N 1 2 3 (4)
Entered into LIMS: 9/29/0
Sample Condition: OK

Page 1 OF 1
Init/Temp: 3°C
LAB Project # 209998

AAL #	Sample Date / Time	Comp	Grab	Matrix	Preserved	CEF-103: Station Location:	No. of Containers	PAH's (8310)										Remarks	LAB #
AB	9/28/00 10:05			GW		SMW-01	2	✓								134	145	*Same Deliverable	
AB	14:05					SMW-02	1	✓									46	Requirement as	
AB	10:45					SMW-03	1	✓									47	Test America	
AB	14:40					SMW-07	1	✓									43	project #184949	
AB	15:20					SMW-10	1	✓									44	rec'd on 3/23/00.	
AB	11:40					SMW-11	1	✓									50	(Level IV)	
AB						~~029-EQB~~ 029-DUP DUP	1	✓									51		
AB	12:50					029-EQB 9/28/00	1	✓								137	152	Not enough container sent	
AB																		for MS/MSD... O.K to	
AB																		use LCS/LCSD. DJ	

Relinquished By:	Date / Time	Received By:	Date / Time	Special Requirements Or Remarks:
	9/29/00 1426		9/29 14:20	**PLEASE FAX RESULTS!!**
Relinquished By:	Date / Time	Received By:	Date / Time	Turnaround Time Requested:
	9/29 12:00			

TESTAMERICA, INC.-NASHVILLE

COOLER RECEIPT FORM

Client: Accuras Analytical Lab., Inc BC# 20998

Cooler Received On: 9/2/02 And Opened On: 9/2/02 By: Michael McBride

(Signature)

1. Temperature of Cooler when opened 3° Degrees Celsius
2. Were custody seals on outside of cooler?.....YES (NO)
   a. If yes, how many, what kind and where:_____
3. Were custody seals on containers and intact?.....(NO) YES
4. Were the seals intact, signed, and dated correctly?.....~~YES~~ NO
5. Were custody papers inside cooler?.....(YES) NO
6. Were custody papers properly filled out (ink,signed,etc)?.....(YES) NO
7. Did you sign the custody papers in the appropriate place?.....(YES) NO
8. What kind of packing material used? (Bubblewrap) Peanuts Vermiculite Other None
9. Was sufficient ice used (if appropriate)?.....(YES) NO
10. Did all bottles arrive in good condition(unbroken)?.....(YES) NO
11. Were all bottle labels complete (#,date,signed,pres,etc)?.....(YES) NO
12. Did all bottle labels and tags agree with custody papers?.....(YES) NO
13. Were correct bottles used for the analysis requested?.....(YES) NO
14. a. Were VOA vials received?.....YES (NO)
    b. Was there any observable head space present in any VOA vial?.....(NO) YES
15. Was sufficient amount of sample sent in each bottle?.....(YES) NO
16. Were correct preservatives used?.....~~YES NO~~
17. Was residual chlorine present?.....(NO) YES
17. Corrective action taken, if necessary:

    See attached for resolution

VOA GC/MS DATA CHECKLIST
SW-846-8260B

PROJECT #: 25726	METHOD: 8260B
MATRIX: water	

INITIAL ANALYST ASSESSMENT

Are all standards within expiration dates for both stock and serial standards?	(Y)	N	NA
Are Tuning results compliant with method?	(Y)	N	NA
Are all CCC drift results, or target analyte drift results acceptable for CCV?	(Y)	N	NA
Are all SPCC Response Factors acceptable for CCV?	(Y)	N	NA
Are all CCV Internal Standard areas within -50% to +100% of initial calibration midlevel standard?	(Y)	N	NA
Are all CCV Internal Standard retention times within 30 seconds of initial cal. midlevel standard?	(Y)	N	NA
Are all sample Internal Standard areas w/in -50% to −100% of that in the CCV?	(Y)	N	NA
Are all sample Internal Standard retention times w/in 30 seconds of that in the CCV?	(Y)	N	NA
Is/Are blank result(s) less than 1/2 RDL for all analytes of interest?	(Y)	N	NA
Are all spike recoveries acceptable for the Blank Spike?	(Y)	N	NA
Are all surrogate standard recoveries acceptable (Blank, Blank Spike, samples)?	(Y)	N	NA
If Internal Standard, surrogate, or LCS are unacceptable was re-injection performed to confirm?	Y	N	(NA)
Were sample analyses performed within holding times?	(Y)	N	NA
Were analyses performed such that carryover was not a problem?	(Y)	N	NA
Are quantitations based on the latest acceptable initial calibration?	(Y)	N	NA
Are all requested analytes below the upper calibration limit?	(Y)	N	NA
If interfering ions are present, was identification made by looking at characteristic ions only?	Y	N	(NA)
Were TICS required? If so, were steps in section 7.6.2 followed in 8260B?	Y	N	(NA)
Are all mistakes single lined out, initialled, & dated?	(Y)	N	NA
Are pHs recorded for all water samples?	(Y)	N	NA
Are all analytes not to be reported lined off, initialed, and dated on the raw data?	(Y)	N	NA
Was analysis completed as instructed on the Log-in Record?	(Y)	N	NA
Has all data been entered into LIMS?	(Y)	N	NA

Analyst: VR

Date: 10/16/2020 Time: 11:10

PEER REVIEW

Are Tuning results compliant with method?	(Y)	N	NA
Are all CCC drift results and SPCC Response Factors acceptable for CCV?	(Y)	N	NA
Are all CCV Internal Standard areas and retention times within method limits?	(Y)	N	NA
Are all sample Internal Standard areas and retention times within method limits?	(Y)	N	NA
Are all blank and QC results acceptable?	(Y)	N	NA
Are all surrogate standard recoveries acceptable?	(Y)	N	NA
Are quantitations based on the latest acceptable initial calibration?	(Y)	N	NA
Are all calculations correct and reported in the proper units?	(Y)	N	NA
Were sample analyses performed within holding times?	(Y)	N	NA
Is the runlog completely filled out (including review signature/date)?	(Y)	N	NA
Are pHs recorded for all water samples?	(Y)	N	NA
Are all applicable runlog sheets signed, dated, and included?	(Y)	N	NA
Was analysis completed as instructed on the Log-in Record?	(Y)	N	NA
Have all LIMS entries been checked for accuracy?	(Y)	N	NA

Reviewer: Thomas A. Tate

Date: 10/13/2020 Time: 10:30

Accura Analytical Laboratory
GC/MS VOLATILE INSTRUMENT C RUNLOG

Date: 10/3/00
Analyst(s): TAG / VR
Calib. File 10020025 M
uant ID File: 10030025 M

BFB Standard Lot #: VOCC48
Surrogate Standard Lot #: VC0052
Internal Standard lot #: VCC053
Calib.Standard Lot #: VCCC5C, VC0057

GC Conditions
BFB: 80°C-10°C/10min-155°C
Samples: 40°C(4m)-8°C/min-180°C(2m)

	CCV IS RT	CV IS Areas
#1	5.80	543739
#2	12.19	452291
#3	16.32	22366

Surrogate Limits

DCE	TOL-d8	BFB
78-128	84-109	86-112

MS Conditions
EM: 1624
Tune File: BFBC1.M
Scan Delay: 1.00 min

File Name	Project ID	Lab Sam. ID	Client Sam. ID	Matrix	Volume	DF	ALS #	pH	-CI	IS	SS	Comments
C16850	QC	BFB 50ng	—	—	2 ul	—	—	—	—	—	—	9:24
C16851	C.V	CCV 50ppb	—	W	25 ml	1	1	—	—	✓	✓	
C16852		water blank	—	W	25 ml	1	2	—	—	✓	✓	
C16853		water blank	—	W	25 ml	1	2	—	—	✓	✓	
C16854	↓	water blank SPIKE	—	W	25 ml	1	3	—	—	✓	✓	
C16855	25655	AC00001	—	W	25 ml	1	4	1	X	✓	✓	
C16856	25716	AC00434	—	W	5 ml	5	5	3	X	✓	✓	
C16857	25671	AC00078	—	W	25 ml	1	6	1	X	✓	✓	
C16858		AC00079	—	W	25 ml	1	7	1	X	✓	✓	
C16859	↓	AC00080	—	W	25 ml	1	8	1	X	✓	✓	
C16860	25726	AC00432	—	W	25 ml	1	9	1	X	✓	✓	
C16861		AC00431	—	W	25 ml	1	10	1	X	✓	✓	
C16862		AC00431MS	—	W	25 ml	1	11	1	X	✓	✓	
C16863		AC00431MSD	—	W	25 ml	1	12	1	X	✓	✓	
C16864		AC00424	—	W	25 ml	1	14	1	X	✓	✓	
C16865		AC00425	—	W	25 ml	1	15	1	X	✓	✓	
C16866		AC00426	—	W	25 ml	1	16	1	X	✓	✓	
C16867		AC00427	—	W	25 ml	1	1	1	X	✓	✓	
C16868		AC00428	—	W	25 ml	1	2	1	X	✓	✓	
C16869		AC00429	—	W	25 ml	1	3	1	X	✓	✓	
C16870	↓	AC00430	—	W	25 ml	1	4	1	X	✓	✓	20:44
C												
C												
C												
C												
C												

Note NDIL=Need Dilution NRI=Needs Reinjection MI=Matrix Interferences NC=Needs Concentrated

VR 10/4/00

Sign/Date: VR 10/4/00

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\100300\C16864.D Vial: 14
Acq On : 3 Oct 2000 17:40 Operator: TAG/VR
Sample : AC00424 25ml DF=1 Inst : VOA-C
Misc : 25726/C10020025 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 3 18:07 2000 Quant Results File: 10030025.RES

Quant Method : c:\hpchem\1\data\100300\10030025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Mon Oct 02 15:08:29 2000
Response via : Initial Calibration
DataAcq Meth : 10030025

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Pentafluorobenzene	5.85	168	572449	10.00 ug\L	0.02
45) Chlorobenzene-d5	12.22	117	495135	10.00 ug\L	0.00
61) 1,4-Dichlorobenzene-d4	16.33	152	238511	10.00 ug\L	0.00
System Monitoring Compounds					
32) 1,2-Dichloroethane-d4	6.33	65	130772	9.05 ug\L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 90.50%		
46) Toluene-d8	9.69	98	715280	9.38 ug\L	0.00
Spiked Amount 10.000	Range 87 - 104		Recovery = 93.80%		
65) Bromofluorobenzene	14.30	95	362656	9.93 ug\L	0.00
Spiked Amount 10.000	Range 84 - 110		Recovery = 99.30%		
Target Compounds					Qvalue
8) Acrolein	3.56	56	66	~~0.71 ug\L #~~	1
11) Acetone	2.67	58	751	~~2.79 ug\L #~~	1
15) Acetonitrile	3.10	41	10703	~~14.39 ug\L #~~	48
20) Vinyl Acetate	3.91	43	73	~~0.67 ug\L #~~	73
36) Trichloroethene	7.15	95	19195	~~0.60 ug\L #~~	9
64) 1,4-dichloro-2-Butene	14.31	75	184424	~~8.76 ug\L #~~	100
68) 1,2,3-Trichloropropane	14.31	75	183210	~~15.95 ug\L #~~	100
85) Naphthalene	20.26	128	5940	0.89 ug\L	100

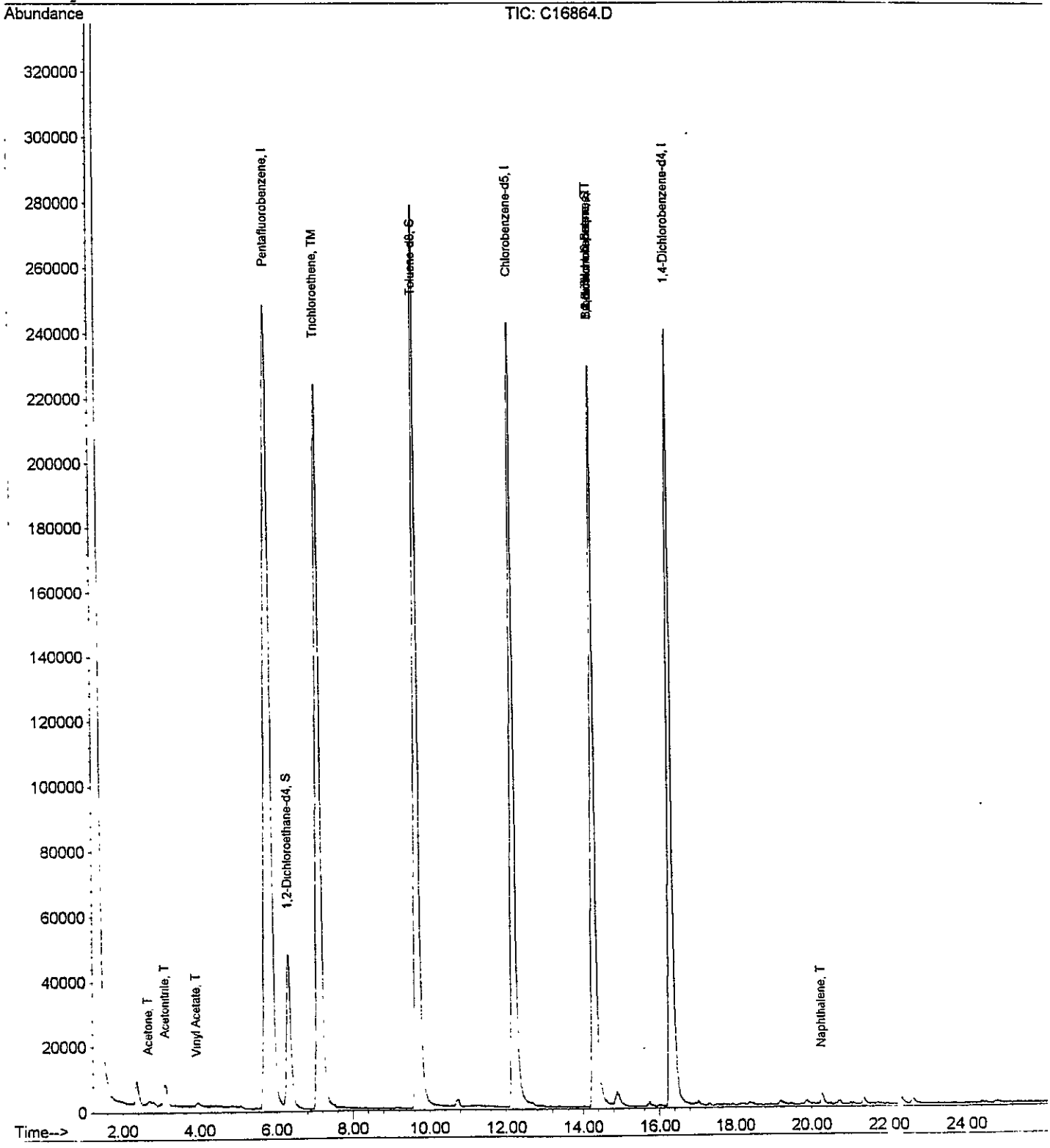
VR
10/3/00

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

Quantitation Report

Data File : C:\HPCHEM\1\DATA\100300\C16864.D Vial: 14
Acq On : 3 Oct 2000 17:40 Operator: TAG/VR
Sample : AC00424 25ml DF=1 Inst : VOA-C
Misc : 25726/C10020025 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 3 18:07 2000 Quant Results File: 10030025.RES

Method : c:\hpchem\1\data\100300\10030025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Mon Oct 02 15:08:29 2000
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\100600\10060006.D Vial: 6
Acq On : 6 Oct 2000 8:51 pm Operator:
Sample : AC00424 Inst : DRO-B
Misc : 25726 1000mL Multiplr: 1.00
IntFile : events.e
Quant Time: Oct 9 9:22 2000 Quant Results File: PRO0901.RES

Quant Method : C:\HPCHEM\2\METHODS\PRO0901.M (Chemstation Integrator)
Title : FLORIDA PRO BY GC; INST. #2
Last Update : Fri Sep 01 18:09:33 2000
Response via : Initial Calibration
DataAcq Meth : PRO0901.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) SC o-TERPHENYL	19.23	708056	16.044 ug/mlm
Spiked Amount 50.000	Recovery =		32.09% KMT
3) SC C(39)	34.67	2753641	59.080 ug/mlm
Spiked Amount 300.000	Recovery =		19.69% KMT
Target Compounds			
1) HM Florida PRO	3.70	17852630	438.171 ug/ml /1000 =

0.445 Bppm
MT

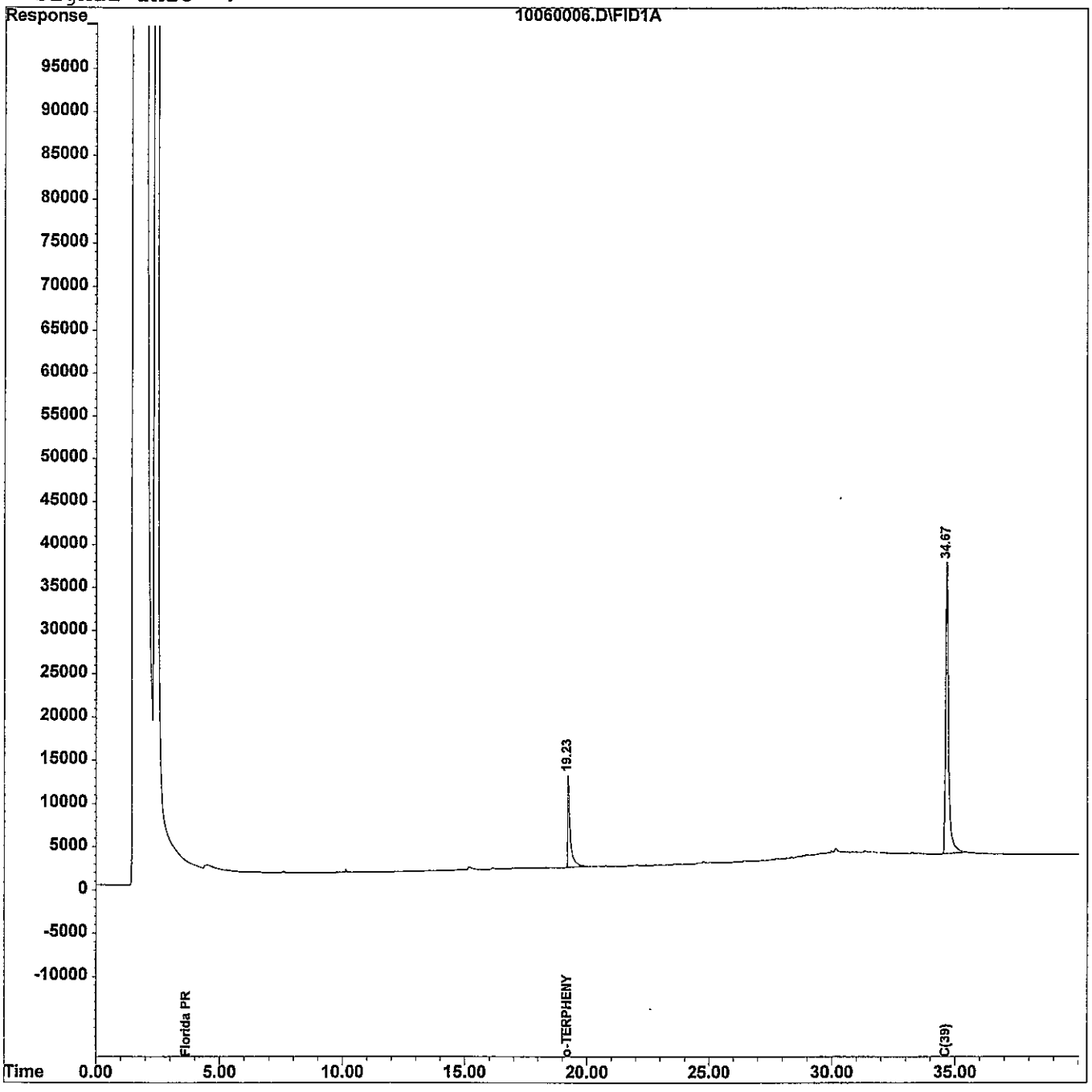
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\2\DATA\100600\10060006.D Vial: 6
Acq On : 6 Oct 2000 8:51 pm Operator:
Sample : AC00424 Inst : DRO-B
Misc : 25726 1000mL Multiplr: 1.00
IntFile : events.e
Quant Time: Oct 9 9:22 2000 Quant Results File: PRO0901.RES

Quant Method : C:\HPCHEM\2\METHODS\PRO0901.M (Chemstation Integrator)
Title : FLORIDA PRO BY GC; INST. #2
Last Update : Fri Sep 01 18:09:33 2000
Response via : Multiple Level Calibration
DataAcq Meth : PRO0901.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\100300\C16865.D Vial: 15
Acq On : 3 Oct 2000 18:11 Operator: TAG/VR
Sample : AC00425 25ml DF=1 Inst : VOA-C
Misc : 25726/C10020025 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 3 18:37 2000 Quant Results File: 10030025.RES

Quant Method : c:\hpchem\1\data\100300\10030025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Mon Oct 02 15:08:29 2000
Response via : Initial Calibration
DataAcq Meth : 10030025

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Pentafluorobenzene	5.85	168	556910	10.00 ug\L	0.02
45) Chlorobenzene-d5	12.21	117	481609	10.00 ug\L	0.00
61) 1,4-Dichlorobenzene-d4	16.32	152	234193	10.00 ug\L	0.00
System Monitoring Compounds					
32) 1,2-Dichloroethane-d4	6.32	65	126559	9.00 ug\L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 90.00%		
46) Toluene-d8	9.70	98	702542	9.47 ug\L	0.01
Spiked Amount 10.000	Range 87 - 104		Recovery = 94.70%		
65) Bromofluorobenzene	14.30	95	350531	9.78 ug\L	0.00
Spiked Amount 10.000	Range 84 - 110		Recovery = 97.80%		
Target Compounds					Qvalue
8) Acrolein	3.11	56	1362	~~3.59 ug\L #~~	1
9) Acrylonitrile	3.13	53	1167	~~1.23 ug\L #~~	1
11) Acetone	2.70	58	204	~~0.78 ug\L #~~	1
15) Acetonitrile	3.13	41	20124	~~17.56 ug\L #~~	51
16) Methylene Chloride	3.09	86	969	~~0.58 ug\L #~~	1
20) Vinyl Acetate	3.68	43	60	~~0.67 ug\L #~~	73
36) Trichloroethene	7.13	95	18576	~~0.60 ug\L #~~	9
42) 2-Chloroethyl-vinyl ether	9.05	63	61	~~2.11 ug\L #~~	47
64) 1,4-dichloro-2-Butene	14.30	75	179892	~~8.70 ug\L~~ #	100
68) 1,2,3-Trichloropropane	14.30	75	173892	~~15.42 ug\L #~~	100
85) Naphthalene	20.29	128	1495	0.69 ug\L	100

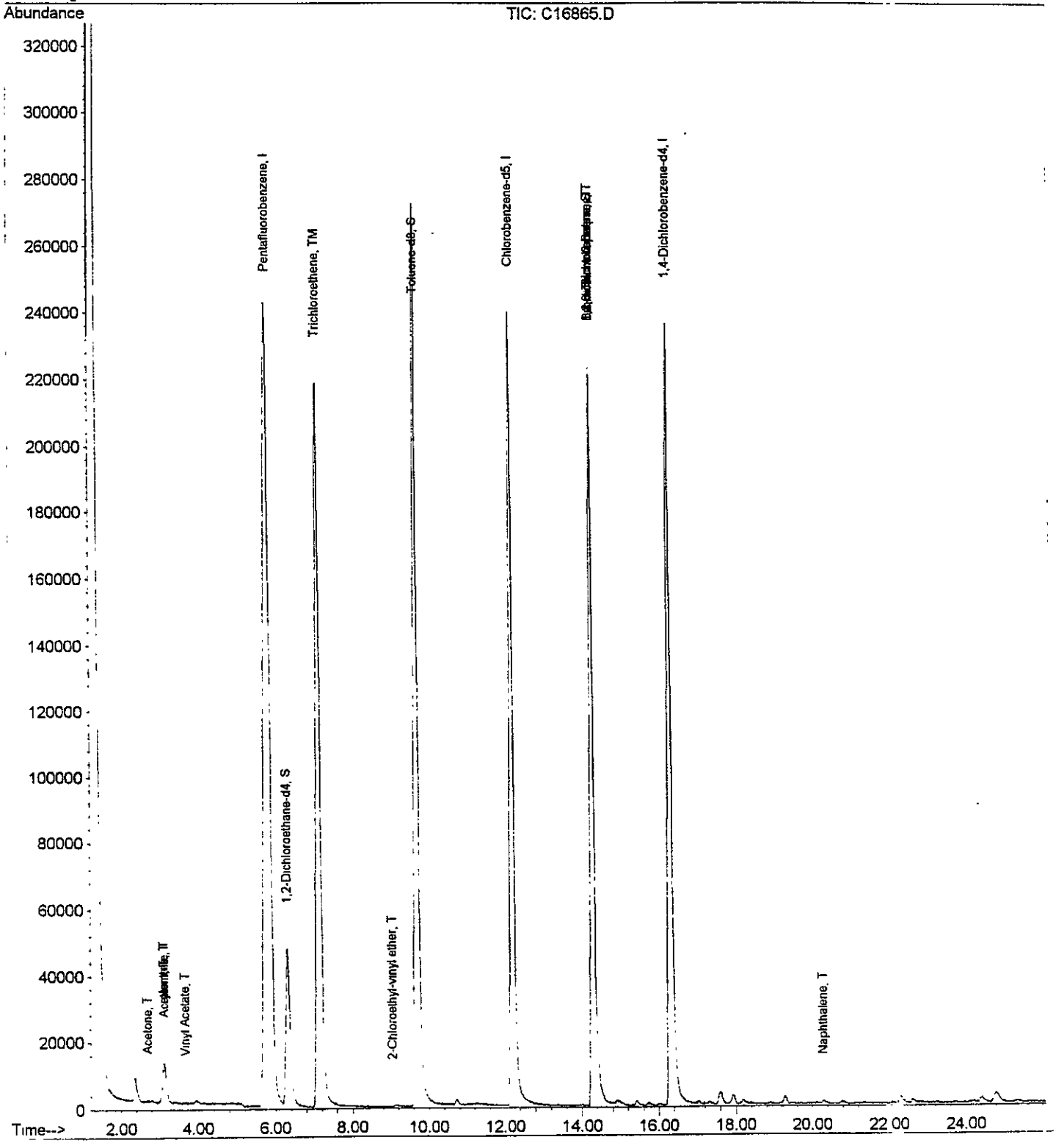
VR
10/3/00

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

Quantitation Report

Data File : C:\HPCHEM\1\DATA\100300\C16865.D Vial: 15
Acq On : 3 Oct 2000 18:11 Operator: TAG/VR
Sample : AC00425 25ml DF=1 Inst : VOA-C
Misc : 25726/C10020025 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 3 18:37 2000 Quant Results File: 10030025.RES

Method : c:\hpchem\1\data\100300\10030025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Mon Oct 02 15:08:29 2000
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\100600\10060007.D Vial: 7
Acq On : 6 Oct 2000 9:39 pm Operator:
Sample : AC00425 Inst : DRO-B
Misc : 25726 1000mL Multiplr: 1.00
IntFile : events.e
Quant Time: Oct 9 9:22 2000 Quant Results File: PRO0901.RES

Quant Method : C:\HPCHEM\2\METHODS\PRO0901.M (Chemstation Integrator)
Title : FLORIDA PRO BY GC; INST. #2
Last Update : Fri Sep 01 18:09:33 2000
Response via : Initial Calibration
DataAcq Meth : PRO0901.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) SC o-TERPHENYL	19.20	1254731	28.430 ug/mlm
Spiked Amount 50.000	Recovery =		56.86% x MT
3) SC C(39)	34.66	1751336	37.575 ug/mlm
Spiked Amount 300.000	Recovery =		12.53% x MT
Target Compounds			
1) HM Florida PRO	3.70	27083852	664.739 ug/ml /1000 =

0.66JB ppm

MT

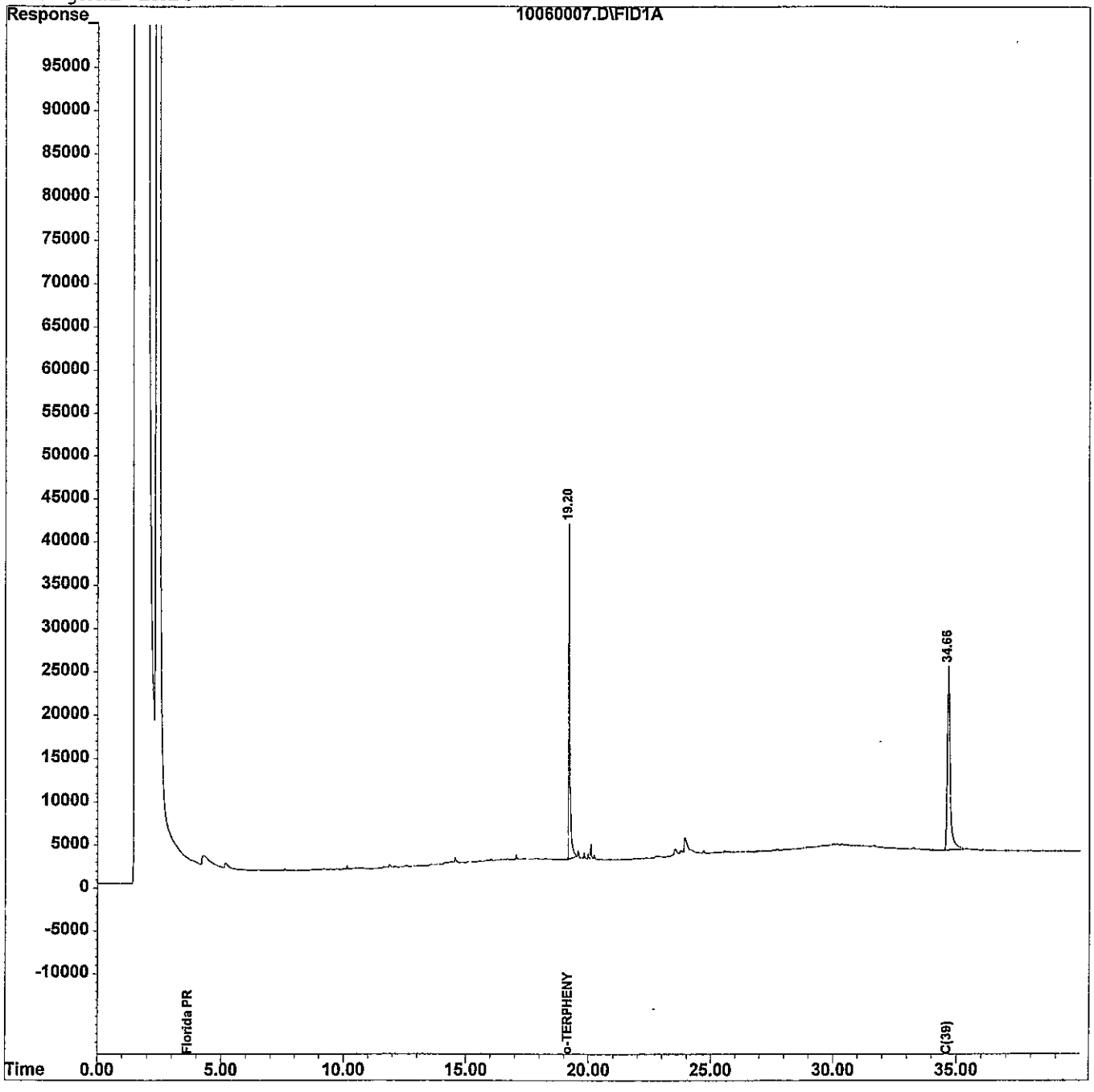
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\2\DATA\100600\10060007.D Vial: 7
Acq On : 6 Oct 2000 9:39 pm Operator:
Sample : AC00425 Inst : DRO-B
Misc : 25726 1000mL Multiplr: 1.00
IntFile : events.e
Quant Time: Oct 9 9:22 2000 Quant Results File: PRO0901.RES

Quant Method : C:\HPCHEM\2\METHODS\PRO0901.M (Chemstation Integrator)
Title : FLORIDA PRO BY GC; INST. #2
Last Update : Fri Sep 01 18:09:33 2000
Response via : Multiple Level Calibration
DataAcq Meth : PRO0901.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\100300\C16866.D Vial: 16
Acq On : 3 Oct 2000 18:41 Operator: TAG/VR
Sample : AC00426 25ml DF=1 Inst : VOA-C
Misc : 25726/C10020025 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 3 19:08 2000 Quant Results File: 10030025.RES

Quant Method : c:\hpchem\1\data\100300\10030025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Mon Oct 02 15:08:29 2000
Response via : Initial Calibration
DataAcq Meth : 10030025

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Pentafluorobenzene	5.85	168	550891	10.00 ug\L	0.03
45) Chlorobenzene-d5	12.21	117	491834	10.00 ug\L	0.00
61) 1,4-Dichlorobenzene-d4	16.32	152	236537	10.00 ug\L	0.00
System Monitoring Compounds					
32) 1,2-Dichloroethane-d4	6.34	65	127068	9.14 ug\L	0.03
Spiked Amount 10.000	Range 80 - 120		Recovery = 91.40%		
46) Toluene-d8	9.71	98	694841	9.18 ug\L	0.03
Spiked Amount 10.000	Range 87 - 104		Recovery = 91.80%		
65) Bromofluorobenzene	14.30	95	348816	9.63 ug\L	0.00
Spiked Amount 10.000	Range 84 - 110		Recovery = 96.30%		
Target Compounds					Qvalue
11) Acetone	2.68	58	982	~~3.79 ug\L~~	87
15) Acetonitrile	3.13	41	17242	~~16.68 ug\L #~~	60
16) Methylene Chloride	3.11	86	1421	~~0.53 ug\L #~~	1
20) Vinyl Acetate	3.69	43	133	~~0.67 ug\L #~~	73
36) Trichloroethene	7.15	95	18599	~~0.60 ug\L #~~	9
64) 1,4-dichloro-2-Butene	14.30	75	176424	~~8.44 ug\L #~~	100
63) 1,2,3-Trichloropropane	14.30	75	166697	~~14.64 ug\L #~~	100
85) Naphthalene	20.29	128	5712	0.89 ug\L	100

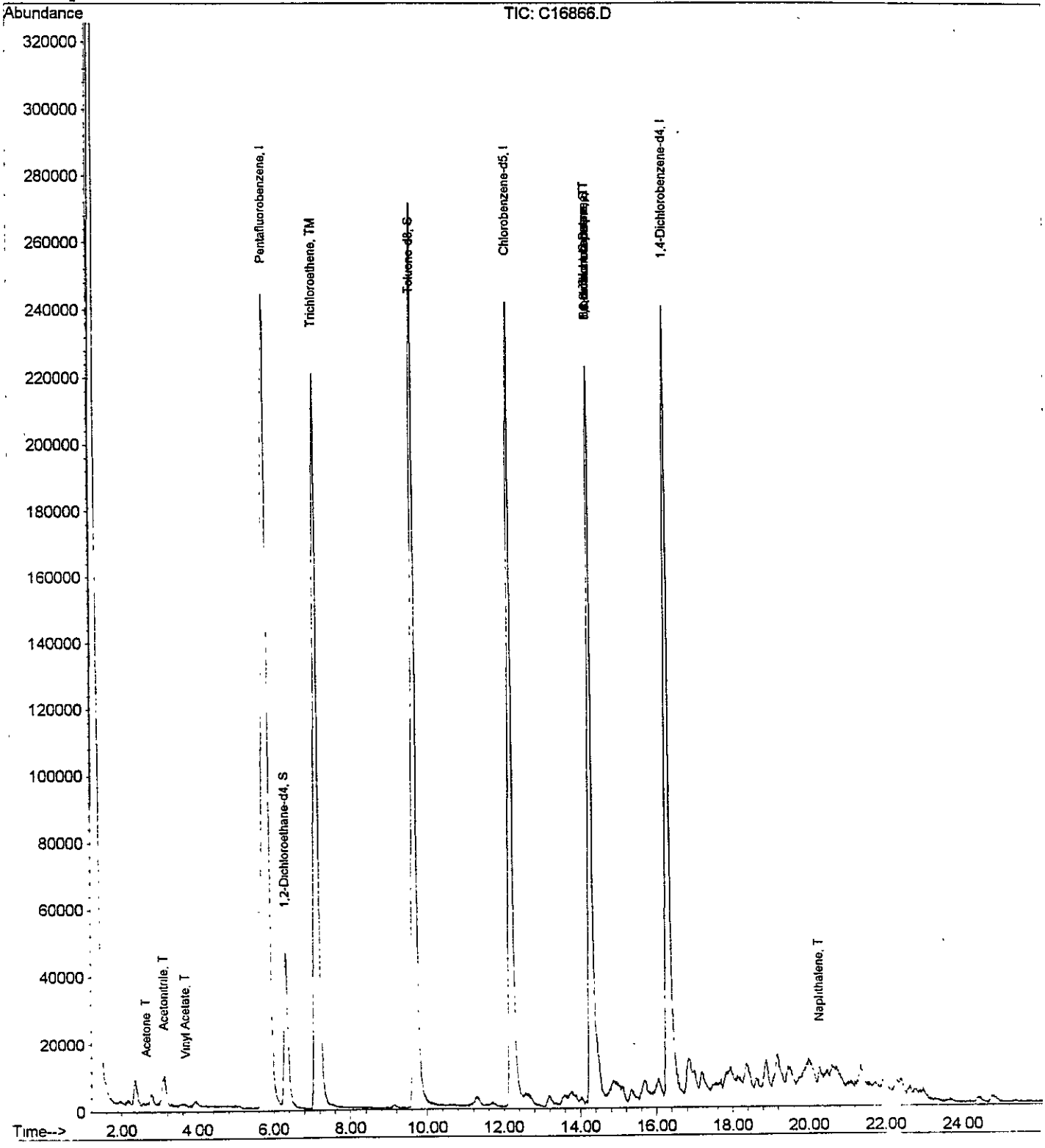
VR
10/3/00

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

Quantitation Report

Data File : C:\HPCHEM\1\DATA\100300\C16866.D Vial: 16
Acq On : 3 Oct 2000 18:41 Operator: TAG/VR
Sample : AC00426 25ml DF=1 Inst : VOA-C
Misc : 25726/C10020025 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 3 19:08 2000 Quant Results File: 10030025.RES

Method : c:\hpchem\1\data\100300\10030025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Mon Oct 02 15:08:29 2000
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\100600\10060008.D Vial: 8
Acq On : 6 Oct 2000 10:28 pm Operator:
Sample : AC00426 Inst : DRO-B
Misc : 25726 1000mL Multiplr: 1.00
IntFile : events.e
Quant Time: Oct 9 9:23 2000 Quant Results File: PRO0901.RES

Quant Method : C:\HPCHEM\2\METHODS\PRO0901.M (Chemstation Integrator)
Title : FLORIDA PRO BY GC; INST. #2
Last Update : Fri Sep 01 18:09:33 2000
Response via : Initial Calibration
DataAcq Meth : PRO0901.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) SC o-TERPHENYL	19.20	724819	16.423 ug/mlm
Spiked Amount 50.000	Recovery =		32.85% x MT
3) SC C(39)	34.69	3951579	84.782 ug/mlm
Spiked Amount 300.000	Recovery =		28.26% x MT
Target Compounds			
1) HM Florida PRO	3.70	30553836	749.906 ug/ml / 1000 =

0.7558 ppm
MT

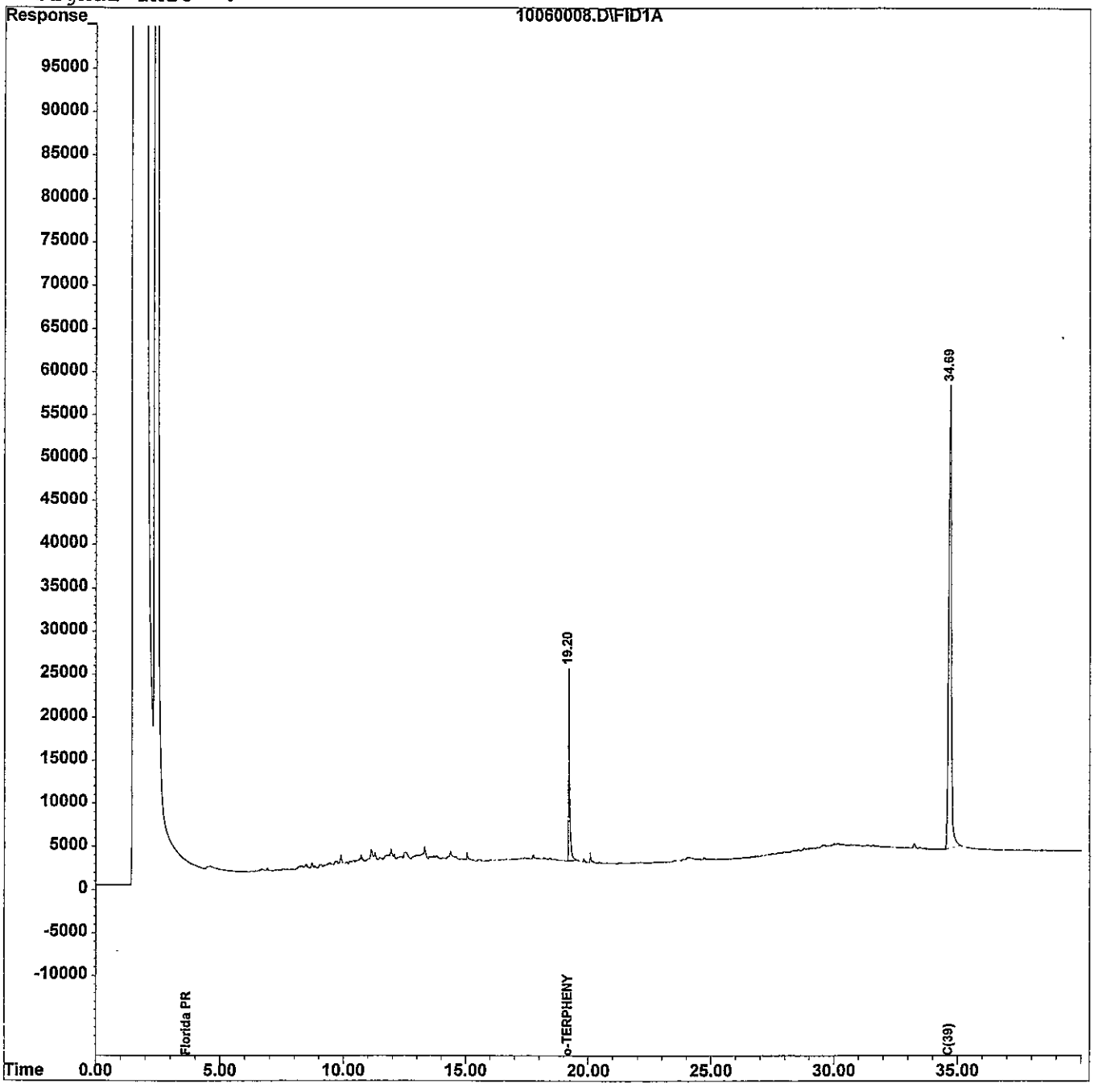
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\2\DATA\100600\10060008.D Vial: 8
Acq On : 6 Oct 2000 10:28 pm Operator:
Sample : AC00426 Inst : DRO-B
Misc : 25726 1000mL Multiplr: 1.00
IntFile : events.e
Quant Time: Oct 9 9:23 2000 Quant Results File: PRO0901.RES

Quant Method : C:\HPCHEM\2\METHODS\PRO0901.M (Chemstation Integrator)
Title : FLORIDA PRO BY GC; INST. #2
Last Update : Fri Sep 01 18:09:33 2000
Response via : Multiple Level Calibration
DataAcq Meth : PRO0901.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\100300\C16867.D Vial: 1
Acq On : 3 Oct 2000 19:12 Operator: TAG/VR
Sample : AC00427 25ml DF=1 Inst : VOA-C
Misc : 25726/C10020025 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 3 19:38 2000 Quant Results File: 10030025.RES

Quant Method : c:\hpchem\1\data\100300\10030025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Mon Oct 02 15:08:29 2000
Response via : Initial Calibration
DataAcq Meth : 10030025

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Pentafluorobenzene	5.85	168	507510	10.00 ug\L	0.02
45) Chlorobenzene-d5	12.21	117	477492	10.00 ug\L	0.00
61) 1,4-Dichlorobenzene-d4	16.32	152	234253	10.00 ug\L	0.00
System Monitoring Compounds					
32) 1,2-Dichloroethane-d4	6.34	65	127861	9.98 ug\L	0.02
Spiked Amount 10.000	Range 80 - 120		Recovery = 99.80%		
46) Toluene-d8	9.71	98	671377	9.13 ug\L	0.02
Spiked Amount 10.000	Range 87 - 104		Recovery = 91.30%		
65) Bromofluorobenzene	14.31	95	345005	9.62 ug\L	0.01
Spiked Amount 10.000	Range 84 - 110		Recovery = 96.20%		
Target Compounds					Qvalue
8) Acrolein	3.13	56	954	~~2.55 ug\L~~ #	88
11) Acetone	2.68	58	997	~~4.18 ug\L~~	76
15) Acetonitrile	3.11	41	14115	~~16.05 ug\L~~ #	61
16) Methylene Chloride	3.09	86	133	~~0.67 ug\L~~ #	1
20) Vinyl Acetate	3.66	43	59	~~0.67 ug\L~~ #	73
36) Trichloroethene	7.15	95	18857	~~0.67 ug\L~~ #	9
64) 1,4-dichloro-2-Butene	14.30	75	178097	~~8.61 ug\L~~ #	100
68) 1,2,3-Trichloropropane	14.30	75	171126	~~15.17 ug\L~~ #	100
85) Naphthalene	20.30	128	2306	0.72 ug\L	100

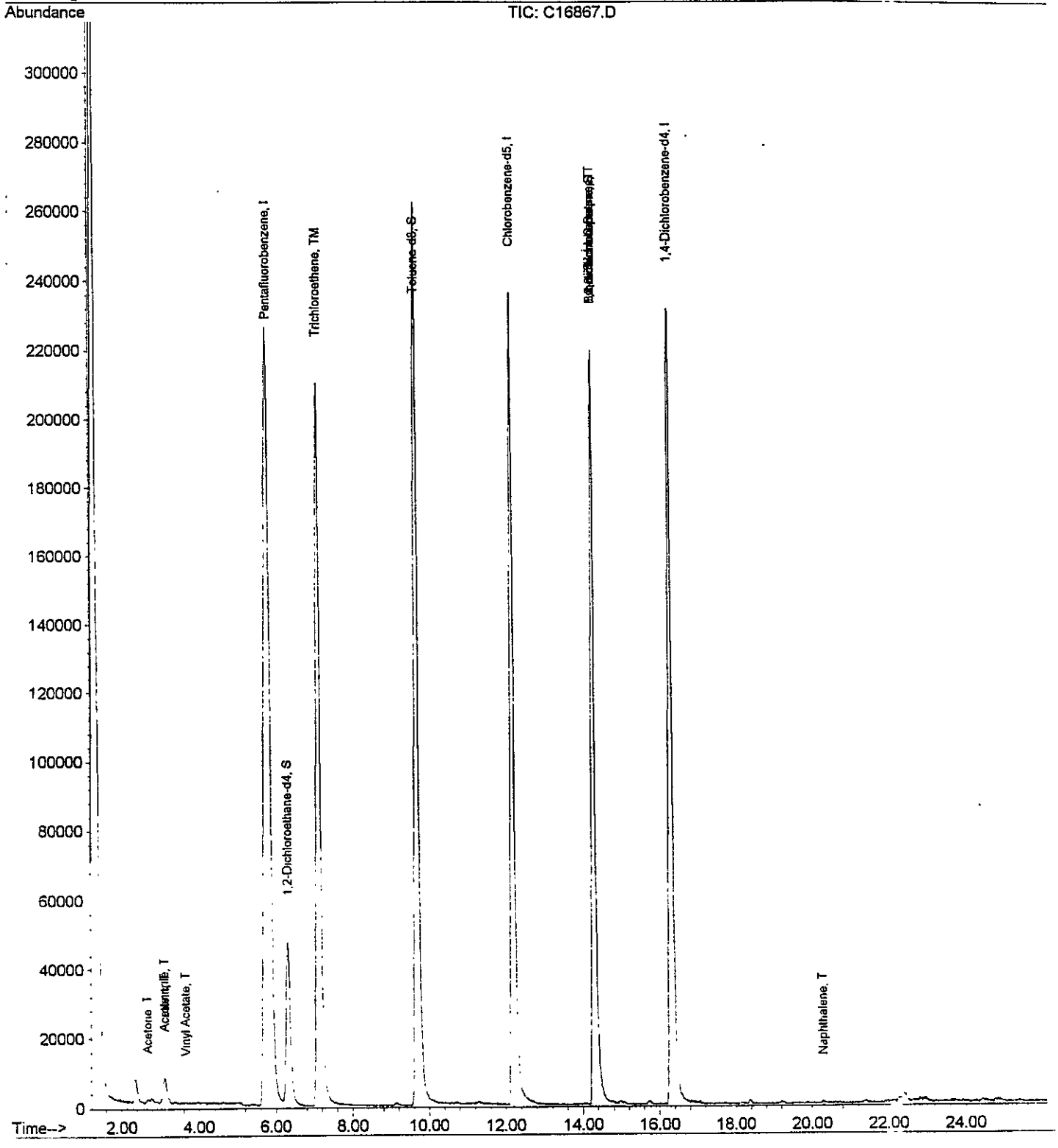
VR
10/3/00

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

Quantitation Report

Data File : C:\HPCHEM\1\DATA\100300\C16867.D Vial: 1
Acq On : 3 Oct 2000 19:12 Operator: TAG/VR
Sample : AC00427 25ml DF=1 Inst : VOA-C
Misc : 25726/C10020025 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 3 19:38 2000 Quant Results File: 10030025.RES

Method : c:\hpchem\1\data\100300\10030025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Mon Oct 02 15:08:29 2000
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\100600\10060009.D Vial: 9
Acq On : 6 Oct 2000 11:16 pm Operator:
Sample : AC00427 Inst : DRO-B
Misc : 25726 1000mL Multiplr: 1.00
IntFile : events.e
Quant Time: Oct 9 9:23 2000 Quant Results File: PRO0901.RES

Quant Method : C:\HPCHEM\2\METHODS\PRO0901.M (Chemstation Integrator)
Title : FLORIDA PRO BY GC; INST. #2
Last Update : Fri Sep 01 18:09:33 2000
Response via : Initial Calibration
DataAcq Meth : PRO0901.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) SC o-TERPHENYL	19.20	672979	15.249 ug/mlm
Spiked Amount 50.000	Recovery =		30.50% x MT
3) SC C(39)	34.68	2397923	51.448 ug/mlm
Spiked Amount 300.000	Recovery =		17.15% x MT
Target Compounds			
1) HM Florida PRO	3.70	29646479	727.636 ug/ml / 1000 =

0.73 JB ppm
MT

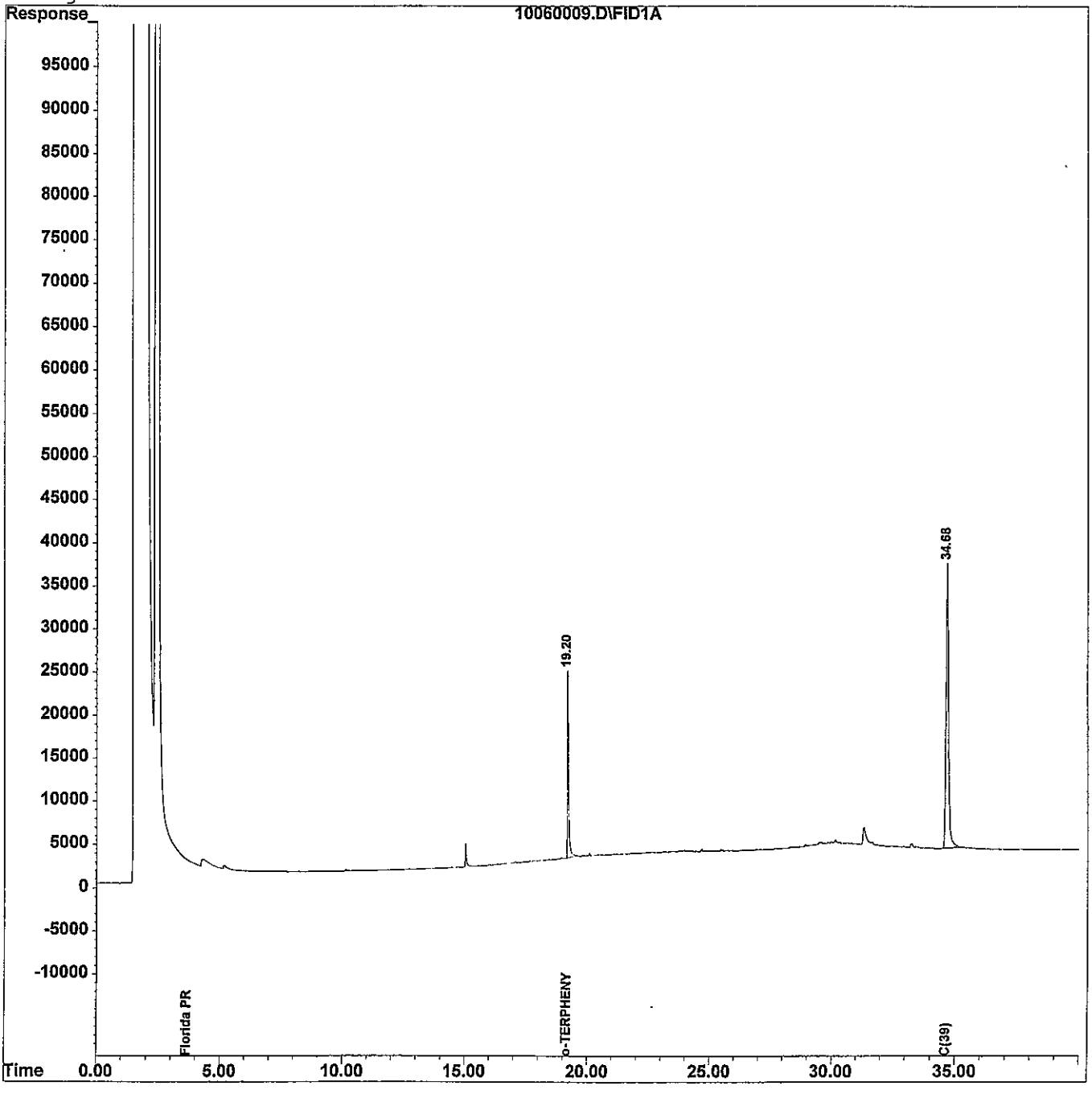
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\2\DATA\100600\10060009.D Vial: 9
Acq On : 6 Oct 2000 11:16 pm Operator:
Sample : AC00427 Inst : DRO-B
Misc : 25726 1000mL Multiplr: 1.00
IntFile : events.e
Quant Time: Oct 9 9:23 2000 Quant Results File: PRO0901.RES

Quant Method : C:\HPCHEM\2\METHODS\PRO0901.M (Chemstation Integrator)
Title : FLORIDA PRO BY GC; INST. #2
Last Update : Fri Sep 01 18:09:33 2000
Response via : Multiple Level Calibration
DataAcq Meth : PRO0901.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\100300\C16868.D Vial: 2
Acq On : 3 Oct 2000 19:43 Operator: TAG/VR
Sample : AC00428 25ml DF=1 Inst : VOA-C
Misc : 25726/C10020025 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 3 20:09 2000 Quant Results File: 10030025.RES

Quant Method : c:\hpchem\1\data\100300\10030025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Mon Oct 02 15:08:29 2000
Response via : Initial Calibration
DataAcq Meth : 10030025

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Pentafluorobenzene	5.84	168	543746	10.00 ug\L	0.01
45) Chlorobenzene-d5	12.21	117	498816	10.00 ug\L	0.00
61) 1,4-Dichlorobenzene-d4	16.33	152	240615	10.00 ug\L	0.01
System Monitoring Compounds					
32) 1,2-Dichloroethane-d4	6.33	65	133726	9.74 ug\L	0.01
Spiked Amount 10.000	Range 80 - 120		Recovery = 97.40%		
46) Toluene-d8	9.70	98	707902	9.22 ug\L	0.01
Spiked Amount 10.000	Range 87 - 104		Recovery = 92.20%		
65) Bromofluorobenzene	14.30	95	364658	9.90 ug\L	0.00
Spiked Amount 10.000	Range 84 - 110		Recovery = 99.00%		
Target Compounds					Qvalue
11) Acetone	2.67	58	186	~~0.73 ug\L #~~	1
15) Acetonitrile	3.13	41	8348	~~13.78 ug\L #~~	30
16) Methylene Chloride	3.12	86	65	~~0.68 ug\L #~~	1
20) Vinyl Acetate	3.61	43	79	~~0.67 ug\L #~~	73
36) Trichloroethene	7.13	95	19154	~~0.63 ug\L #~~	9
64) 1,4-dichloro-2-Butene	14.30	75	187838	~~8.84 ug\L #~~	100
68) 1,2,3-Trichloropropane	14.30	75	181322	~~15.65 ug\L #~~	100
85) Naphthalene	20.28	128	392	0.63 ug\L	100

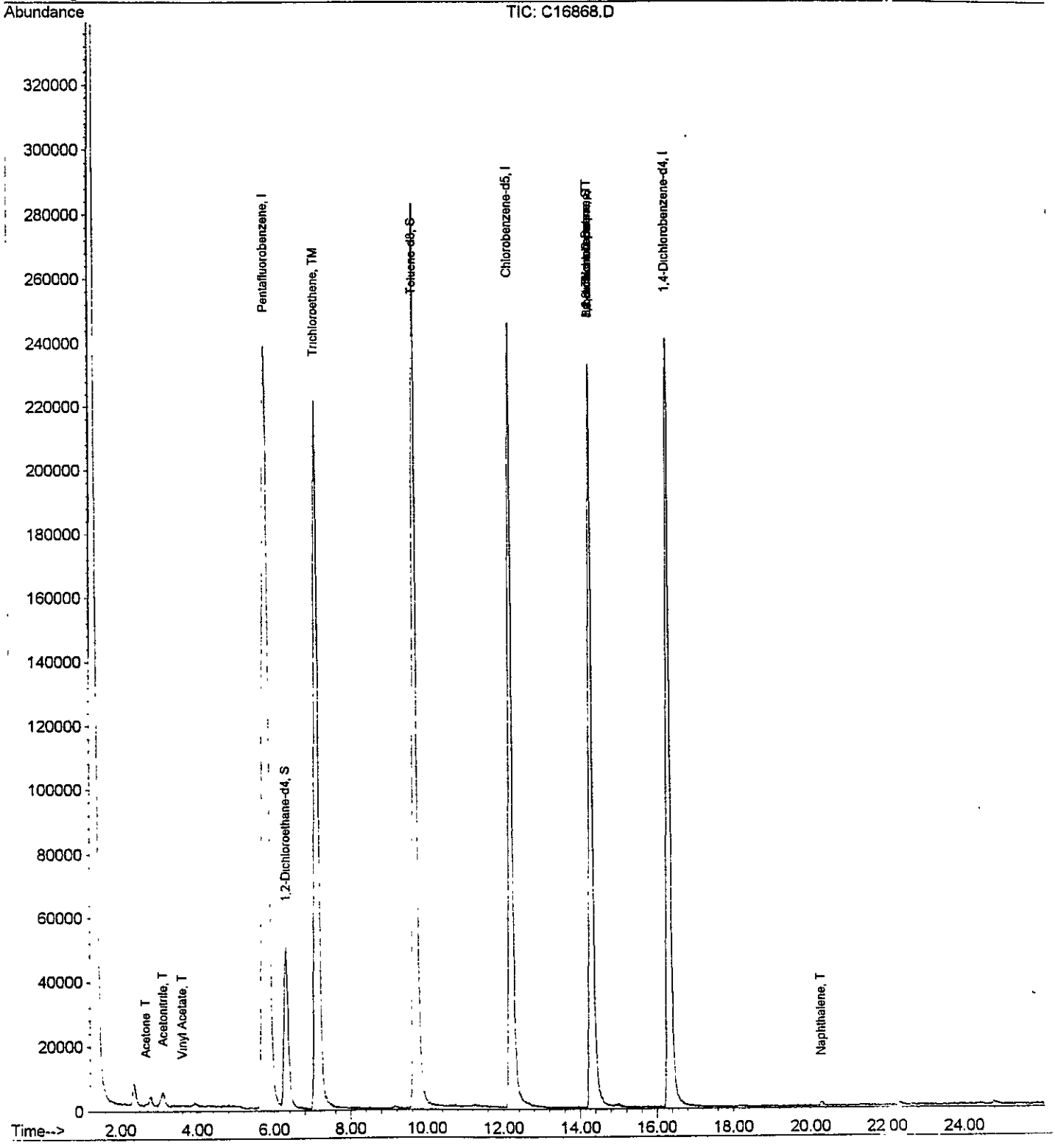
VR
10/3/00

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

Quantitation Report

Data File : C:\HPCHEM\1\DATA\100300\C16868.D Vial: 2
Acq On : 3 Oct 2000 19:43 Operator: TAG/VR
Sample : AC00428 25ml DF=1 Inst : VOA-C
Misc : 25726/C10020025 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 3 20:09 2000 Quant Results File: 10030025.RES

Method : c:\hpchem\1\data\100300\10030025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Mon Oct 02 15:08:29 2000
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\100600\10060010.D Vial: 10
Acq On : 7 Oct 2000 12:05 am Operator:
Sample : AC00428 Inst : DRO-B
Misc : 25726 1000mL Multiplr: 1.00
IntFile : events.e
Quant Time: Oct 9 9:24 2000 Quant Results File: PRO0901.RES

Quant Method : C:\HPCHEM\2\METHODS\PRO0901.M (Chemstation Integrator)
Title : FLORIDA PRO BY GC; INST. #2
Last Update : Fri Sep 01 18:09:33 2000
Response via : Initial Calibration
DataAcq Meth : PRO0901.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) SC o-TERPHENYL	19.20	592235	13.419 ug/mlm
Spiked Amount 50.000	Recovery =		26.84% x MT
3) SC C(39)	34.70	3861582	82.851 ug/mlm
Spiked Amount 300.000	Recovery =		27.62% x MT
Target Compounds			
1) HM Florida PRO	3.70	25123780	616.632 ug/ml / 1000 =

0.6275 ppm
MT

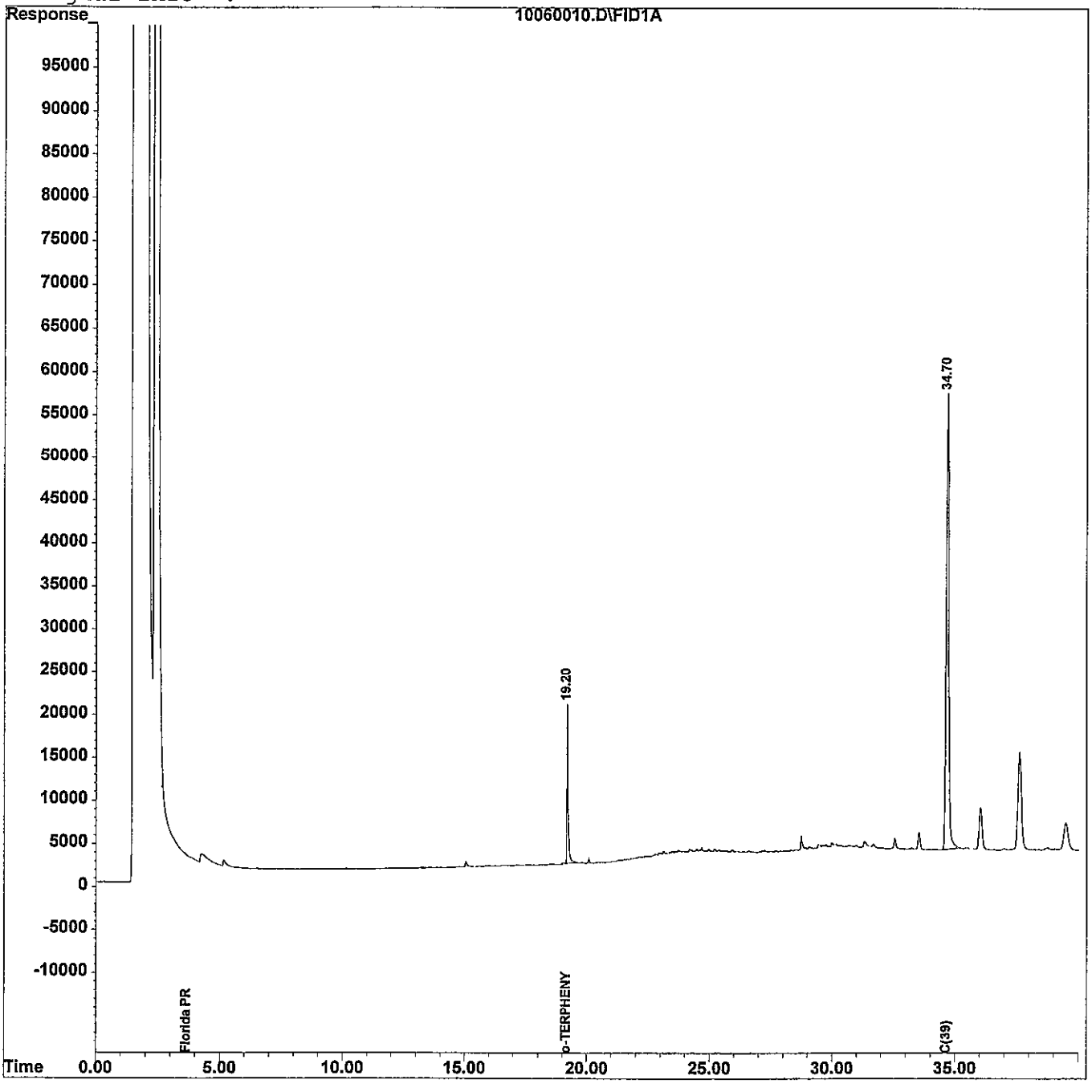
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\2\DATA\100600\10060010.D Vial: 10
Acq On : 7 Oct 2000 12:05 am Operator:
Sample : AC00428 Inst : DRO-B
Misc : 25726 1000mL Multiplr: 1.00
IntFile : events.e
Quant Time: Oct 9 9:24 2000 Quant Results File: PRO0901.RES

Quant Method : C:\HPCHEM\2\METHODS\PRO0901.M (Chemstation Integrator)
Title : FLORIDA PRO BY GC; INST. #2
Last Update : Fri Sep 01 18:09:33 2000
Response via : Multiple Level Calibration
DataAcq Meth : PRO0901.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\100300\C16869.D Vial: 3
Acq On : 3 Oct 2000 20:13 Operator: TAG/VR
Sample : AC00429 25ml DF=1 Inst : VOA-C
Misc : 25726/C10020025 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 3 20:39 2000 Quant Results File: 10030025.RES

Quant Method : c:\hpchem\1\data\100300\10030025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Mon Oct 02 15:08:29 2000
Response via : Initial Calibration
DataAcq Meth : 10030025

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Pentafluorobenzene	5.83	168	529407	10.00 ug\L	0.00
45) Chlorobenzene-d5	12.21	117	477466	10.00 ug\L	0.00
61) 1,4-Dichlorobenzene-d4	16.32	152	232500	10.00 ug\L	0.00
System Monitoring Compounds					
32) 1,2-Dichloroethane-d4	6.32	65	127228	9.52 ug\L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 95.20%		
46) Toluene-d8	9.70	98	687696	9.35 ug\L	0.01
Spiked Amount 10.000	Range 87 - 104		Recovery = 93.50%		
65) Bromofluorobenzene	14.30	95	355566	9.99 ug\L	0.00
Spiked Amount 10.000	Range 84 - 110		Recovery = 99.90%		
Target Compounds					Qvalue
8) Acrolein	3.54	56	460	~~0.68 ug\L #~~	1
9) Acrylonitrile	3.14	53	508	~~0.56 ug\L #~~	35
11) Acetone	2.68	58	2664	~~10.71 ug\L~~	97
15) Acetonitrile	3.11	41	14603	~~16.00 ug\L #~~	29
16) Methylene Chloride	3.09	86	126	~~0.67 ug\L #~~	1
20) Vinyl Acetate	3.66	43	151	~~0.67 ug\L #~~	73
23) 2-Butanone	4.91	72	852	~~1.77 ug\L #~~	1
30) 1,4-Dioxane	7.85	88	75	~~15.56 ug\L #~~	24
34) Isobutyl alcohol	6.63	43	1618	~~14.58 ug\L #~~	31
41) 2-Nitropropane	9.00	43	472	~~0.65 ug\L #~~	100
58) Ethylbenzene	12.47	91	260193	2.90 ug\L	99
59) total-Xylene	12.69	106	381951m	12.01 ug\L	
63) Isopropylbenzene	14.04	105	127384	1.24 ug\L	99
64) 1,4-dichloro-2-Butene	14.30	75	176765	~~8.61 ug\L #~~	100
68) 1,2,3-Trichloropropane	14.30	75	168365	~~15.04 ug\L #~~	100
69) n-Propylbenzene	14.76	91	148878	1.23 ug\L	93
70) 2-Chlorotoluene	14.76	91	148878	~~2.25 ug\L #~~	56
72) 1,3,5-Trimethylbenzene	15.09	105	313688	4.07 ug\L	88
74) tert-Butylbenzene	15.73	119	98122	~~1.04 ug\L #~~	56
75) 1,2,4-Trimethylbenzene	15.73	105	889699	11.81 ug\L #	84
76) sec-Butylbenzene	16.03	105	150101	1.23 ug\L	96
78) Isopropyltoluene	16.28	119	154935	~~1.67 ug\L #~~	78
81) n-Butylbenzene	17.02	91	126164	~~1.24 ug\L #~~	1
82) 1,2-Dibromo-3-chloropropan	18.45	75	710	~~0.67 ug\L #~~	16
85) Naphthalene	20.28	128	64093	3.72 ug\L	100

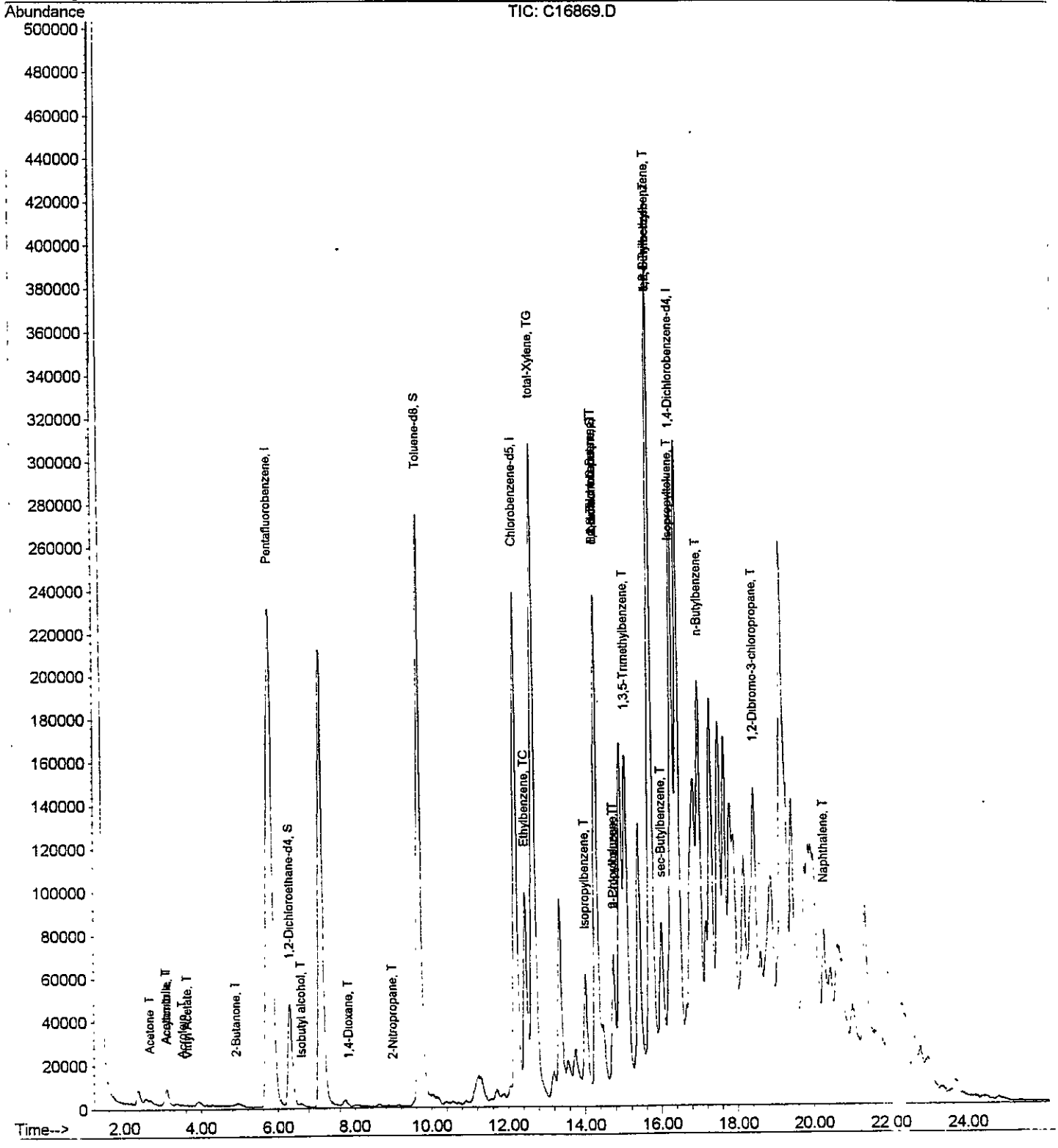
VR
10/4/00

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

Quantitation Report

Data File : C:\HPCHEM\1\DATA\100300\C16869.D Vial: 3
Acq On : 3 Oct 2000 20:13 Operator: TAG/VR
Sample : AC00429 25ml DF=1 Inst : VOA-C
Misc : 25726/C10020025 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 3 20:39 2000 Quant Results File: 10030025.RES

Method : c:\hpchem\1\data\100300\10030025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Mon Oct 02 15:08:29 2000
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\100600\10060011.D Vial: 11
Acq On : 7 Oct 2000 12:53 am Operator:
Sample : AC00429 Inst : DRO-B
Misc : 25726 1000mL Multiplr: 1.00
IntFile : events.e
Quant Time: Oct 9 9:24 2000 Quant Results File: PRO0901.RES

Quant Method : C:\HPCHEM\2\METHODS\PRO0901.M (Chemstation Integrator)
Title : FLORIDA PRO BY GC; INST. #2
Last Update : Fri Sep 01 18:09:33 2000
Response via : Initial Calibration
DataAcq Meth : PRO0901.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) SC o-TERPHENYL	19.20	1136704	25.756 ug/mlm
Spiked Amount 50.000	Recovery =		51.51% x MT
3) SC C(39)	34.68	2898468	62.188 ug/mlm
Spiked Amount 300.000	Recovery =		20.73% x MT
Target Compounds			
1) HM Florida PRO	3.70	317996666	7804.833 ug/ml / 1000 =

7.8 ppm
MT

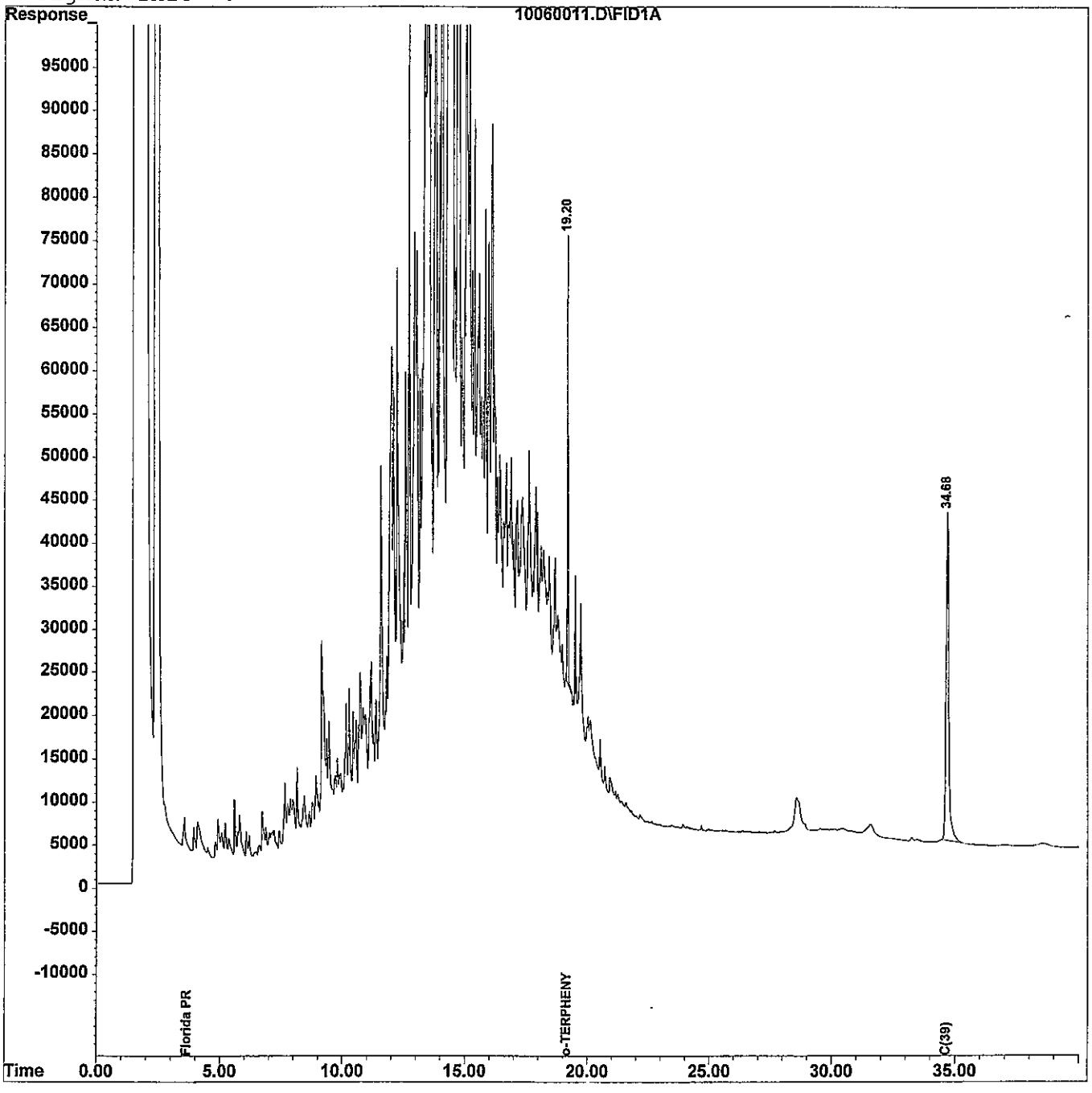
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\2\DATA\100600\10060011.D Vial: 11
Acq On : 7 Oct 2000 12:53 am Operator:
Sample : AC00429 Inst : DRO-B
Misc : 25726 1000mL Multiplr: 1.00
IntFile : events.e
Quant Time: Oct 9 9:24 2000 Quant Results File: PRO0901.RES

Quant Method : C:\HPCHEM\2\METHODS\PRO0901.M (Chemstation Integrator)
Title : FLORIDA PRO BY GC; INST. #2
Last Update : Fri Sep 01 18:09:33 2000
Response via : Multiple Level Calibration
DataAcq Meth : PRO0901.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\100300\C16870.D Vial: 4
Acq On : 3 Oct 2000 20:44 Operator: TAG/VR
Sample : AC00430 25ml DF=1 Inst : VOA-C
Misc : 25726/C10020025 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 3 21:10 2000 Quant Results File: 10030025.RES

Quant Method : c:\hpchem\1\data\100300\10030025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Mon Oct 02 15:08:29 2000
Response via : Initial Calibration
DataAcq Meth : 10030025

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Pentafluorobenzene	5.84	168	575279	10.00 ug\L	0.01
45) Chlorobenzene-d5	12.22	117	514177	10.00 ug\L	0.01
61) 1,4-Dichlorobenzene-d4	16.33	152	250747	10.00 ug\L	0.01
System Monitoring Compounds					
32) 1,2-Dichloroethane-d4	6.32	65	136771	9.42 ug\L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 94.20%		
46) Toluene-d8	9.71	98	728030	9.20 ug\L	0.02
Spiked Amount 10.000	Range 87 - 104		Recovery = 92.00%		
65) Bromofluorobenzene	14.31	95	370682	9.66 ug\L	0.01
Spiked Amount 10.000	Range 84 - 110		Recovery = 96.60%		
Target Compounds					Qvalue
8) Acrolein	3.15	56	829	~~1.74 ug\L #~~	77
9) Acrylonitrile	3.11	53	1590	~~1.62 ug\L #~~	35
11) Acetone	2.66	58	467	~~1.73 ug\L #~~	40
15) Acetonitrile	3.12	41	22604	~~18.13 ug\L #~~	60
16) Methylene Chloride	3.07	86	87	~~-0.67 ug\L #~~	1
20) Vinyl Acetate	3.61	43	60	~~0.67 ug\L #~~	73
64) 1,4-dichloro-2-Butene	14.30	75	190109	~~8.58 ug\L #~~	100
68) 1,2,3-Trichloropropane	14.30	75	181764	~~15.06 ug\L #~~	100
85) Naphthalene	20.29	128	5507	0.86 ug\L	100

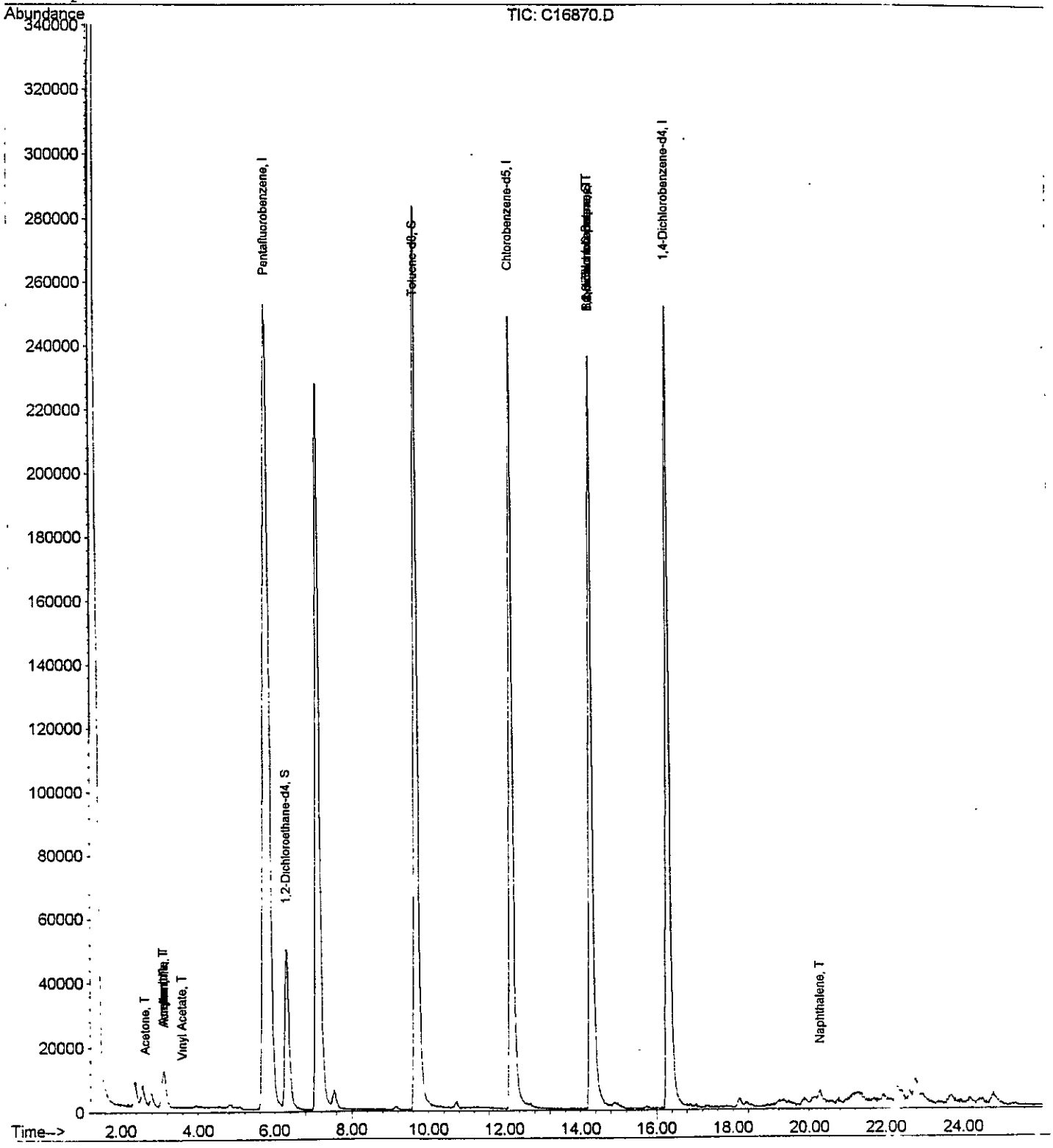
VR
10/4/00

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

Quantitation Report

Data File : C:\HPCHEM\1\DATA\100300\C16870.D Vial: 4
Acq On : 3 Oct 2000 20:44 Operator: TAG/VR
Sample : AC00430 25ml DF=1 Inst : VOA-C
Misc : 25726/C10020025 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 3 21:10 2000 Quant Results File: 10030025.RES

Method : c:\hpchem\1\data\100300\10030025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Mon Oct 02 15:08:29 2000
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\100600\10060012.D Vial: 12
Acq On : 7 Oct 2000 1:41 am Operator:
Sample : AC00430 Inst : DRO-B
Misc : 25726 1000mL Multiplr: 1.00
IntFile : events.e
Quant Time: Oct 9 9:25 2000 Quant Results File: PRO0901.RES

Quant Method : C:\HPCHEM\2\METHODS\PRO0901.M (Chemstation Integrator)
Title : FLORIDA PRO BY GC; INST. #2
Last Update : Fri Sep 01 18:09:33 2000
Response via : Initial Calibration
DataAcq Meth : PRO0901.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) SC o-TERPHENYL	19.21	682128	15.456 ug/mlm
Spiked Amount 50.000	Recovery =		30.91% x MT
3) SC C(39)	34.68	1677764	35.997 ug/mlm
Spiked Amount 300.000	Recovery =		12.00% x MT
Target Compounds			
1) HM Florida PRO	3.70	19886531	488.090 ug/ml / 1000 =

0.49JB ppm

MT

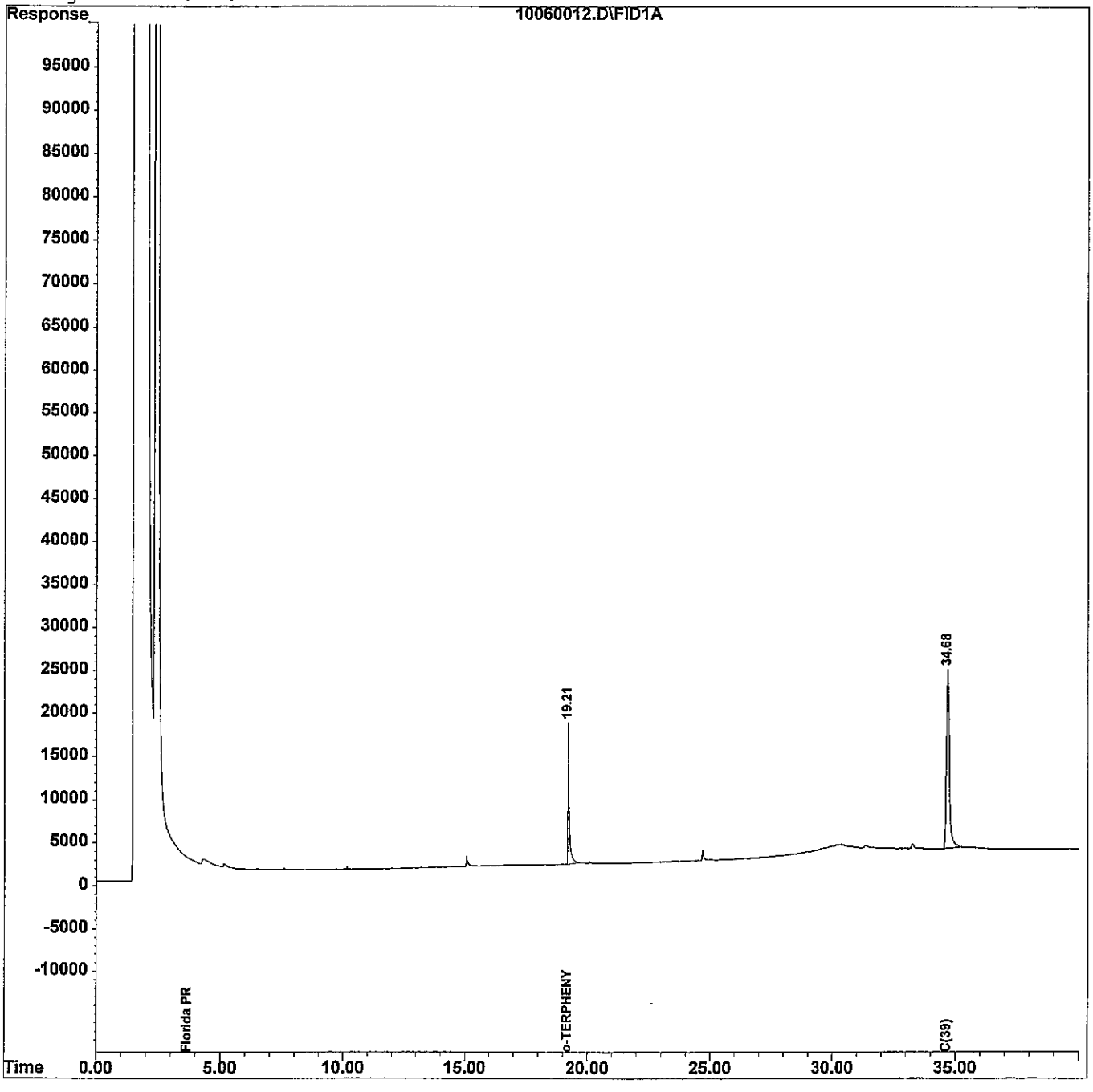
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\2\DATA\100600\10060012.D Vial: 12
Acq On : 7 Oct 2000 1:41 am Operator:
Sample : AC00430 Inst : DRO-B
Misc : 25726 1000mL Multiplr: 1.00
IntFile : events.e
Quant Time: Oct 9 9:25 2000 Quant Results File: PRO0901.RES

Quant Method : C:\HPCHEM\2\METHODS\PRO0901.M (Chemstation Integrator)
Title : FLORIDA PRO BY GC; INST. #2
Last Update : Fri Sep 01 18:09:33 2000
Response via : Multiple Level Calibration
DataAcq Meth : PRO0901.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\100300\C16861.D Vial: 10
Acq On : 3 Oct 2000 15:38 Operator: TAG/VR
Sample : AC00431 25ml DF=1 Inst : VOA-C
Misc : 25726/C10020025 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 3 16:05 2000 Quant Results File: 10030025.RES

Quant Method : c:\hpchem\1\data\100300\10030025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Mon Oct 02 15:08:29 2000
Response via : Initial Calibration
DataAcq Meth : 10030025

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Pentafluorobenzene	5.84	168	552652	10.00 ug\L	0.02
45) Chlorobenzene-d5	12.21	117	469967	10.00 ug\L	0.00
61) 1,4-Dichlorobenzene-d4	16.32	152	226263	10.00 ug\L	0.00
System Monitoring Compounds					
32) 1,2-Dichloroethane-d4	6.33	65	125057	8.96 ug\L	0.02
Spiked Amount 10.000	Range 80 - 120		Recovery = 89.60%		
46) Toluene-d8	9.69	98	688625	9.52 ug\L	0.00
Spiked Amount 10.000	Range 87 - 104		Recovery = 95.20%		
65) Bromofluorobenzene	14.30	95	338153	9.76 ug\L	0.00
Spiked Amount 10.000	Range 84 - 110		Recovery = 97.60%		
Target Compounds					Qvalue
3) Chloromethane	1.59	50	7653	0.51 ug\L	99
5) Bromomethane	1.90	94	60	176.17 ug\L #	3
8) Acrolein	3.15	56	70	0.69 ug\L #	19
15) Acetonitrile	3.12	41	7153	13.35 ug\L #	42
16) Methylene Chloride	3.09	86	759	0.60 ug\L #	2
20) Vinyl Acetate	3.64	43	194	0.68 ug\L #	73
36) Trichloroethene	7.11	95	18187	0.59 ug\L #	9
64) 1,4-dichloro-2-Butene	14.31	75	175437	3.78 ug\L #	100
66) 1,2,3-Trichloropropane	14.31	75	168198	15.44 ug\L #	100
85) Naphthalene	20.30	128	2423	0.73 ug\L	100

VR
10/12/00

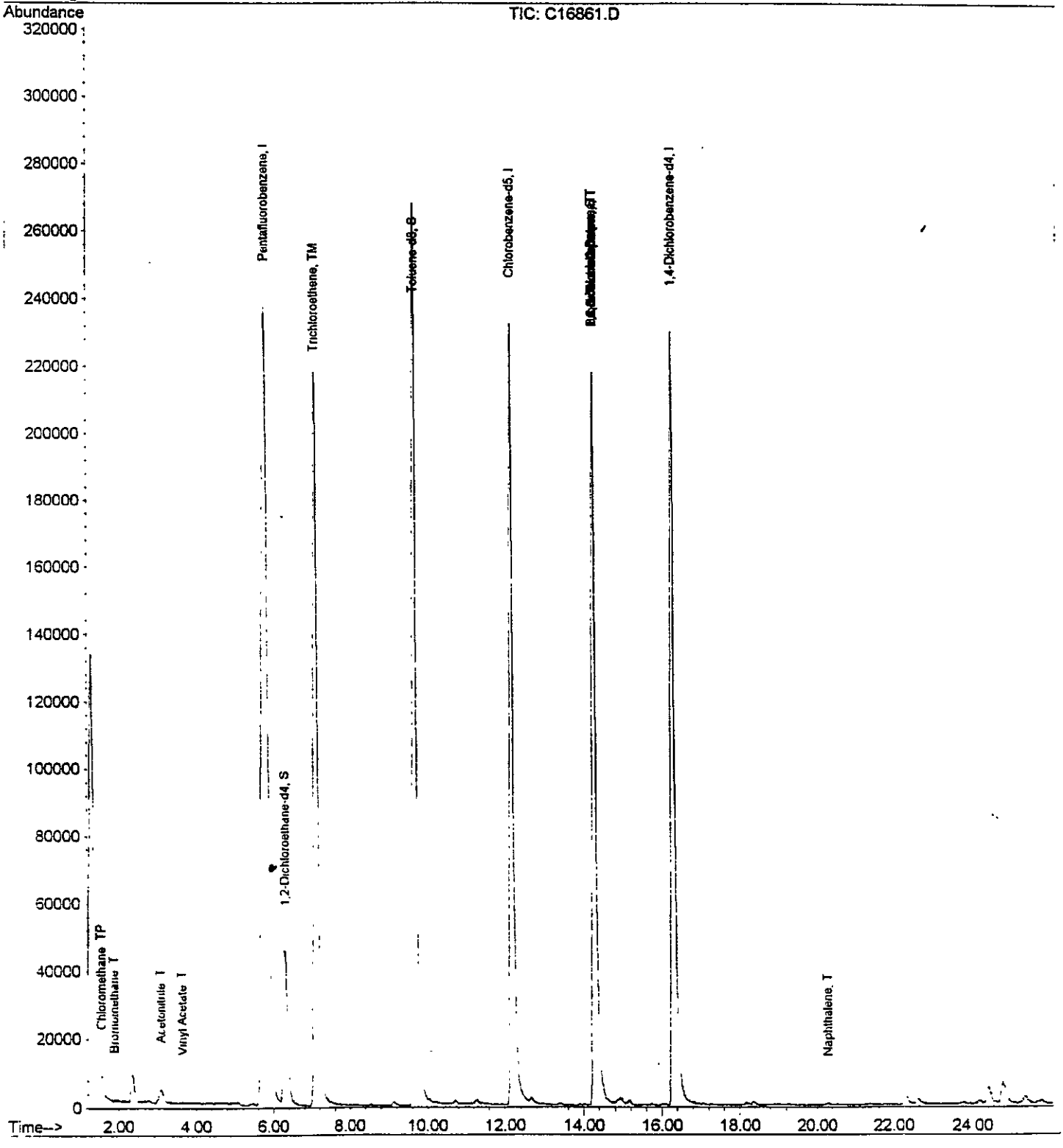
VR
10/3/00

= qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\100300\C16861.D Vial: 10
Acq On : 3 Oct 2000 15:38 Operator: TAG/VR
Sample : AC00431 25ml DF=1 Inst : VOA-C
Misc : 25726/C10020025 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 3 16:05 2000 Quant Results File: 10030025.RES

Method : c:\hpchem\1\data\100300\10030025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Mon Oct 02 15:08:29 2000
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\100600\10060015.D Vial: 15
Acq On : 7 Oct 2000 4:06 am Operator:
Sample : AC00431 Inst : DRO-B
Misc : 25726 1000mL Multiplr: 1.00
IntFile : events.e
Quant Time: Oct 9 9:26 2000 Quant Results File: PRO0901.RES

Quant Method : C:\HPCHEM\2\METHODS\PRO0901.M (Chemstation Integrator)
Title : FLORIDA PRO BY GC; INST. #2
Last Update : Fri Sep 01 18:09:33 2000
Response via : Initial Calibration
DataAcq Meth : PRO0901.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) SC o-TERPHENYL	19.20	1701080	38.544 ug/mlm
Spiked Amount 50.000	Recovery =		77.09% x MT
3) SC C(39)	34.69	2500373	53.646 ug/mlm
Spiked Amount 300.000	Recovery =		17.88% x MT
Target Compounds			
1) HM Florida PRO	3.70	15802748	387.859 ug/ml / 1000 =

0.3958 ppm
MT

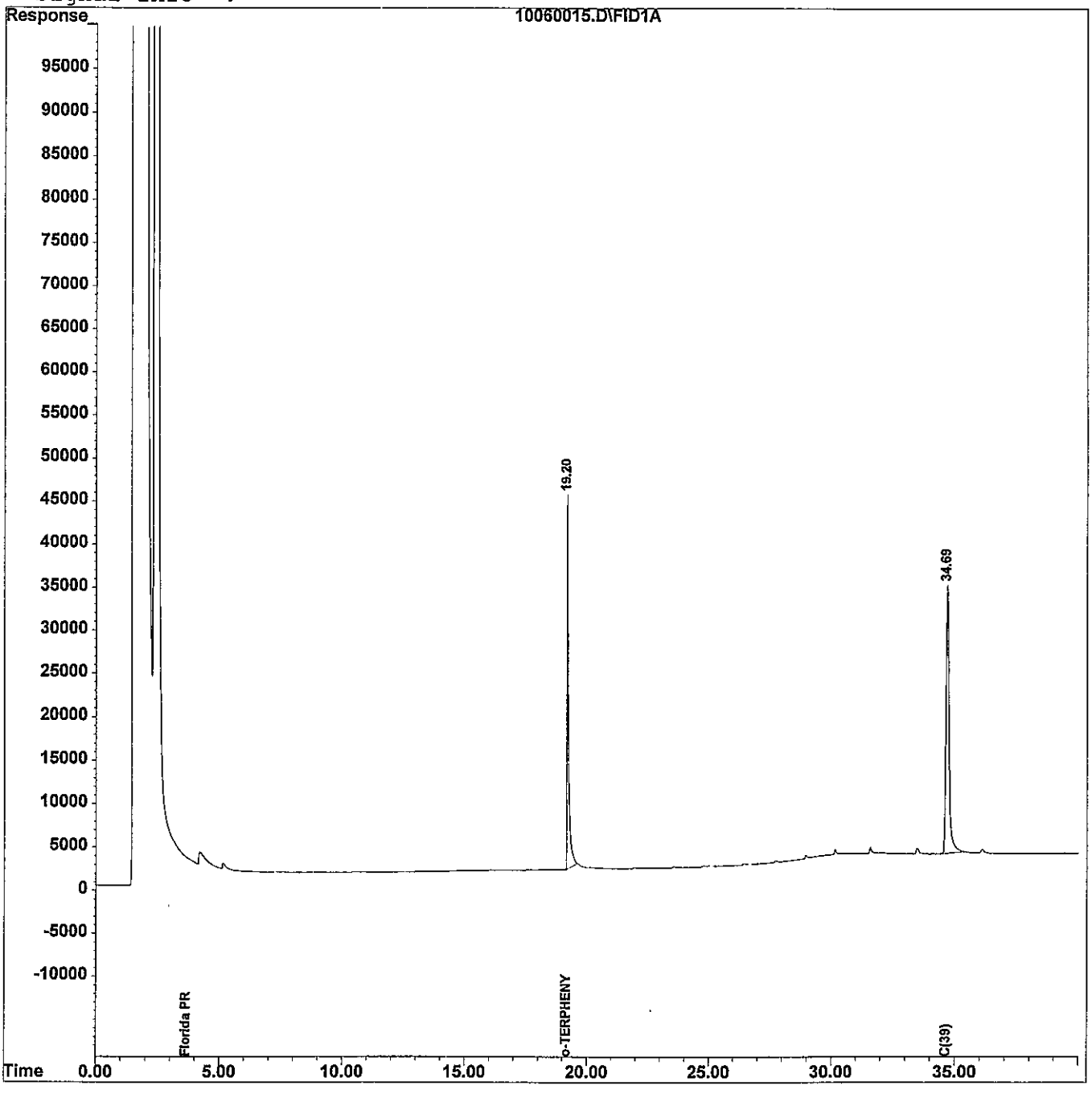
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\2\DATA\100600\10060015.D Vial: 15
Acq On : 7 Oct 2000 4:06 am Operator:
Sample : AC00431 Inst : DRO-B
Misc : 25726 1000mL Multiplr: 1.00
IntFile : events.e
Quant Time: Oct 9 9:26 2000 Quant Results File: PRO0901.RES

Quant Method : C:\HPCHEM\2\METHODS\PRO0901.M (Chemstation Integrator)
Title : FLORIDA PRO BY GC; INST. #2
Last Update : Fri Sep 01 18:09:33 2000
Response via : Multiple Level Calibration
DataAcq Meth : PRO0901.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\100300\C16860.D Vial: 9
Acq On : 3 Oct 2000 15:08 Operator: TAG/VR
Sample : AC00432 25ml DF=1 Inst : VOA-C
Misc : 25726/C10020025 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 3 15:35 2000 Quant Results File: 10030025.RES

Quant Method : c:\hpchem\1\data\100300\10030025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Mon Oct 02 15:08:29 2000
Response via : Initial Calibration
DataAcq Meth : 10030025

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Pentafluorobenzene	5.85	168	565733	10.00 ug\L	0.02
45) Chlorobenzene-d5	12.21	117	489875	10.00 ug\L	0.00
61) 1,4-Dichlorobenzene-d4	16.32	152	236131	10.00 ug\L	0.00
System Monitoring Compounds					
32) 1,2-Dichloroethane-d4	6.32	65	120951	8.47 ug\L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 84.70%		
46) Toluene-d8	9.68	98	691132	9.16 ug\L	0.00
Spiked Amount 10.000	Range 87 - 104		Recovery = 91.60%		
65) Bromofluorobenzene	14.30	95	346296	9.58 ug\L	0.00
Spiked Amount 10.000	Range 84 - 110		Recovery = 95.80%		
Target Compounds					Qvalue
4) Vinyl Chloride	2.36	62	14177	~~0.67 ug\L #~~	65
5) Bromomethane	1.89	94	223	~~176.16 ug\L #~~	65
7) Trichlorofluoromethane	2.36	101	78260	~~1.67 ug\L #~~	100
11) Acetone	2.69	58	804	~~3.02 ug\L #~~	1
15) Acetonitrile	3.11	41	13406	~~15.30 ug\L #~~	29
36) Trichloroethene	7.14	95	19205	~~0.61 ug\L #~~	9
47) Toluene	9.79	92	41291	0.91 ug\L	99
64) 1,4-dichloro-2-Butene	14.30	75	175538	~~8.41 ug\L #~~	100
68) 1,2,3-Trichloropropane	14.30	75	169759	~~14.93 ug\L #~~	100
85) Naphthalene	20.28	128	4363	0.82 ug\L	100

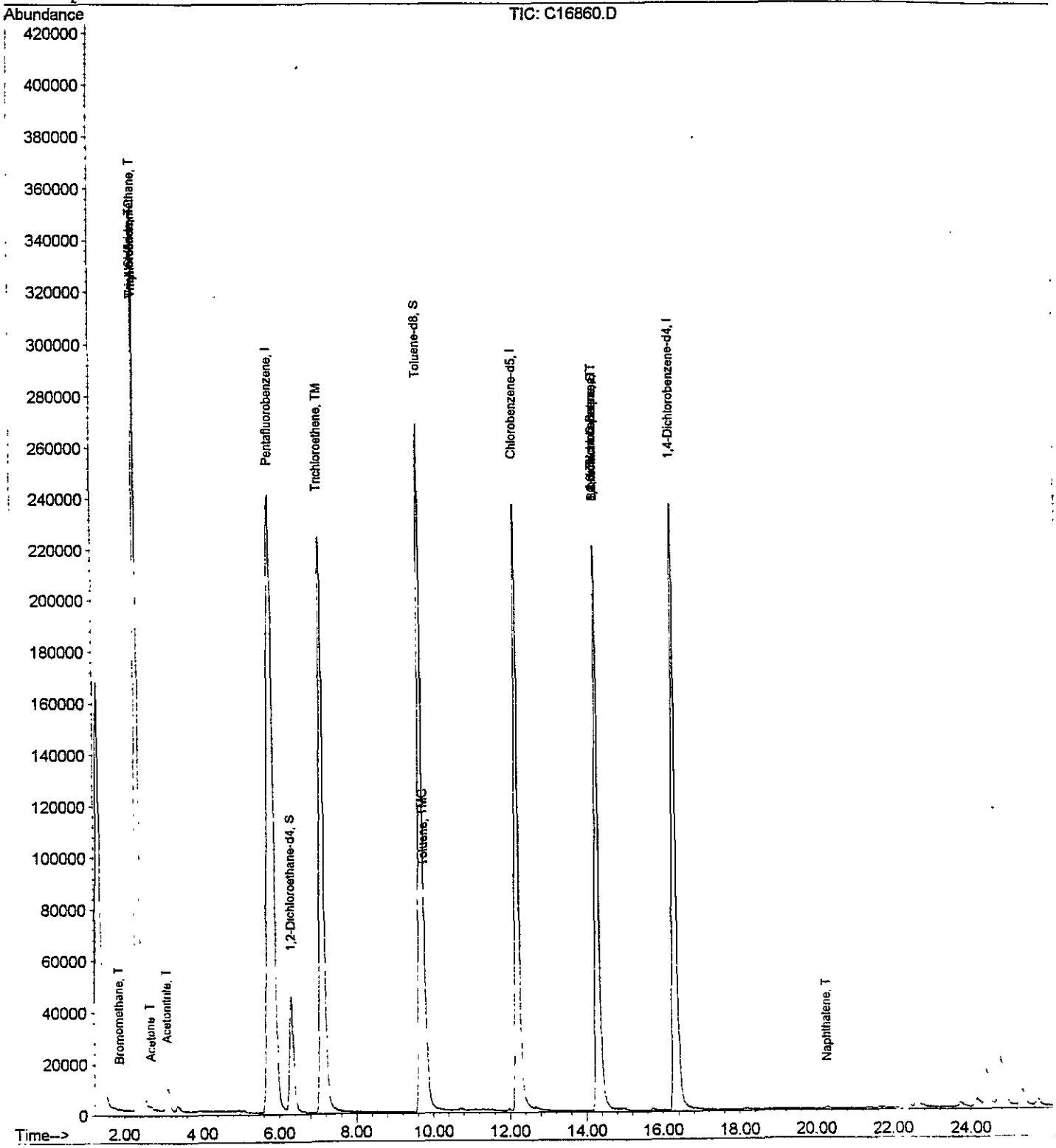
VR
10/3/00

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

Quantitation Report

Data File : C:\HPCHEM\1\DATA\100300\C16860.D Vial: 9
Acq On : 3 Oct 2000 15:08 Operator: TAG/VR
Sample : AC00432 25ml DF=1 Inst : VOA-C
Misc : 25726/C10020025 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 3 15:35 2000 Quant Results File: 10030025.RES

Method : c:\hpchem\1\data\100300\10030025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Mon Oct 02 15:08:29 2000
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\100300\C16853.D Vial: 2
Acq On : 3 Oct 2000 11:16 Operator: TAG/VR
Sample : WATER BLANK 25ml DF=1 Inst : VOA-C
Misc : QC Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 3 11:43 2000 Quant Results File: 10030025.RES

Quant Method : C:\HPCHEM\1\DATA\100300\10030025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Mon Oct 02 15:08:29 2000
Response via : Initial Calibration
DataAcq Meth : 10030025

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.82	168	572497	10.00	ug\L	0.00
45) Chlorobenzene-d5	12.20	117	456911	10.00	ug\L	0.00
61) 1,4-Dichlorobenzene-d4	16.32	152	217853	10.00	ug\L	0.00
System Monitoring Compounds						
32) 1,2-Dichloroethane-d4	6.31	65	117757	8.15	ug\L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 81.50%			
46) Toluene-d8	9.69	98	676252	9.61	ug\L	0.00
Spiked Amount 10.000	Range 87 - 104		Recovery = 96.10%			
65) Bromofluorobenzene	14.29	95	324720	9.74	ug\L	0.00
Spiked Amount 10.000	Range 84 - 110		Recovery = 97.40%			
Target Compounds						Qvalue
15) Acetonitrile	3.09	41	8065	~~13.55 ug\L #~~		~~42~~
20) Vinyl Acetate	3.64	43	768	~~0.72 ug\L #~~		~~73~~
36) Trichloroethene	7.12	95	18407	~~0.58 ug\L #~~		~~9~~
64) 1,4-dichloro-2-Butene	14.30	75	167039	~~8.68 ug\L~~ #		100
68) 1,2,3-Trichloropropane	14.30	75	159234	~~15.18 ug\L #~~		100
85) Naphthalene	20.28	128	3707	0.81 ug\L		100

< ½ RDL

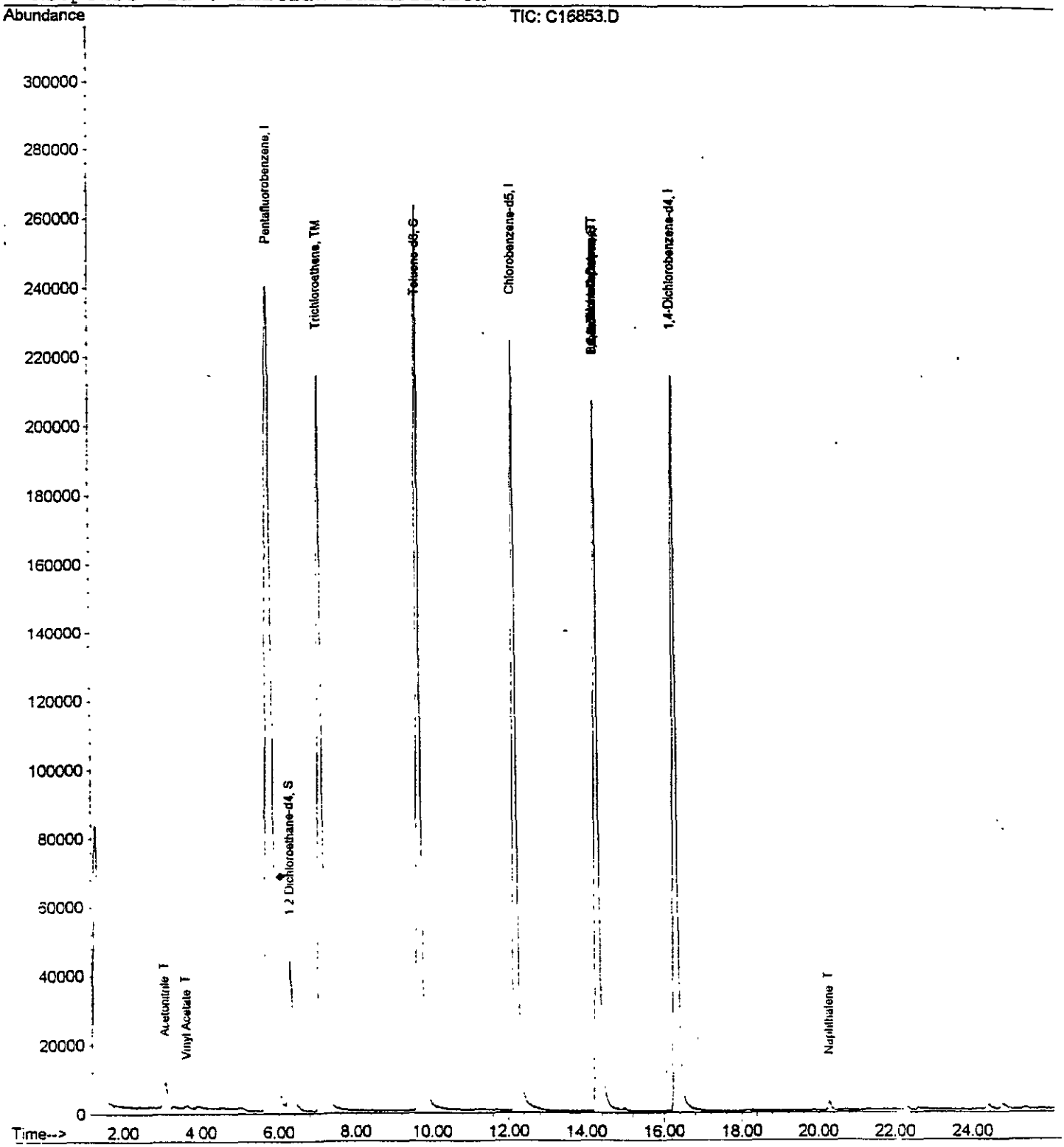
VR
10/3/00

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

Quantitation Report

Data File : C:\HPCHEM\1\DATA\100300\C16853.D Vial: 2
Acq On : 3 Oct 2000 11:16 Operator: TAG/VR
Sample : WATER BLANK 25ml DF=1 Inst : VOA-C
Misc : QC Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 3 11:43 2000 Quant Results File: 10030025.RES

Method : C:\HPCHEM\1\DATA\100300\10030025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Mon Oct 02 15:08:29 2000
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\100600\10060003.D Vial: 3
Acq On : 6 Oct 2000 6:26 pm Operator:
Sample : PROW BLANK 1005 Inst : DRO-B
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Oct 9 9:20 2000 Quant Results File: PRO0901.RES

Quant Method : C:\HPCHEM\2\METHODS\PRO0901.M (Chemstation Integrator)
Title : FLORIDA PRO BY GC; INST. #2
Last Update : Fri Sep 01 18:09:33 2000
Response via : Initial Calibration
DataAcq Meth : PRO0901.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) SC o-TERPHENYL	19.19	1880231	42.603 µg/mlm
Spiked Amount 50.000	Recovery =		85.21% ✓NT
3) SC C(39)	34.65	1969192	42.250 ug/mlm
Spiked Amount 300.000	Recovery =		14.08% x NT
Target Compounds			
1) HM Florida PRO	3.70	19883626	488.019 ug/ml / 1000 =

0.495 ppm = < ½ RDL ✓

NT

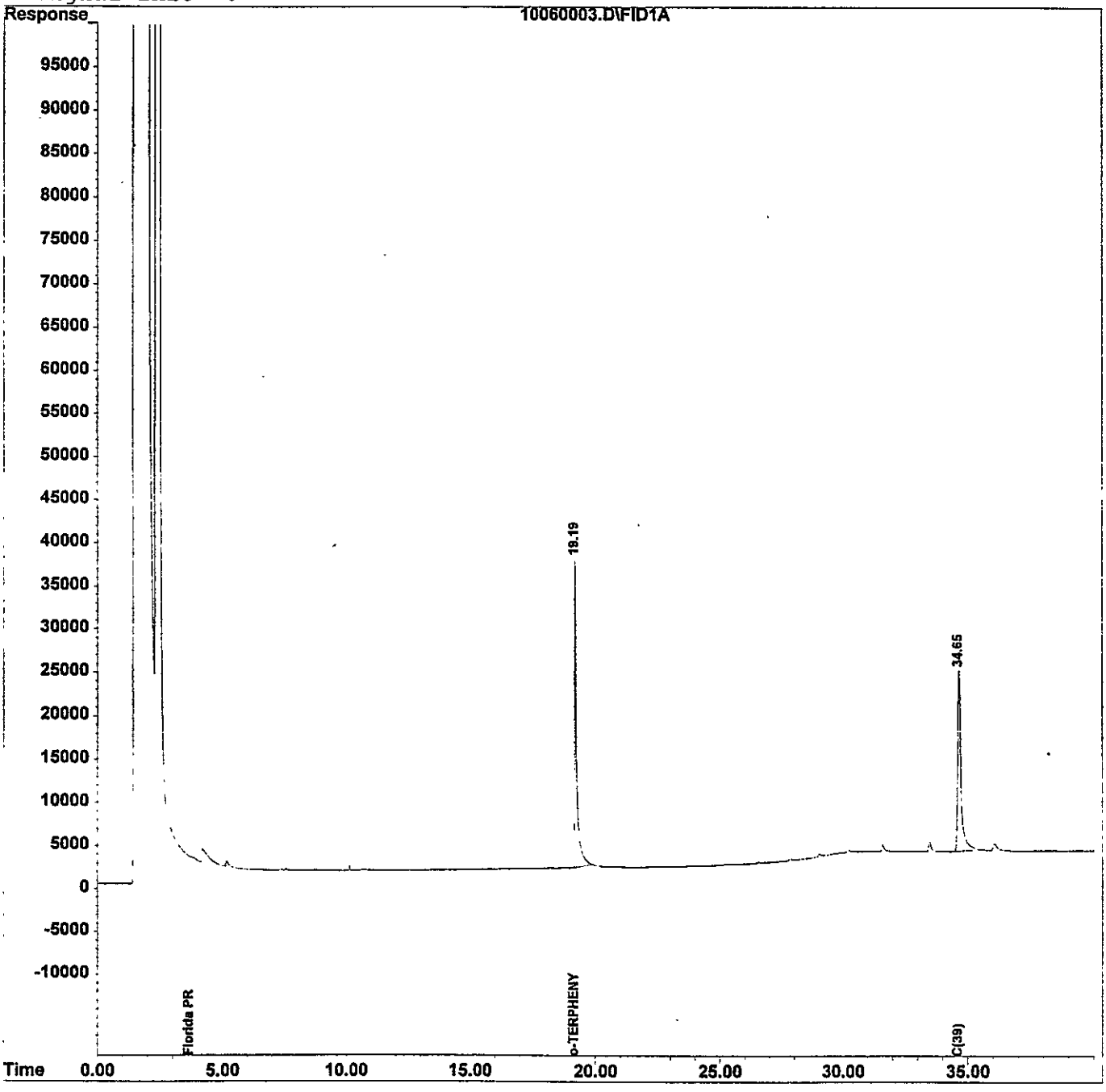
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\2\DATA\100600\10060003.D Vial: 3
Acq On : 6 Oct 2000 6:26 pm Operator:
Sample : PROW BLANK 1005 Inst : DRO-B
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Oct 9 9:20 2000 Quant Results File: PRO0901.RES

Quant Method : C:\HPCHEM\2\METHODS\PRO0901.M (Chemstation Integrator)
Title : FLORIDA PRO BY GC; INST. #2
Last Update : Fri Sep 01 18:09:33 2000
Response via : Multiple Level Calibration
DataAcq Meth : PRO0901.M

Volume Inj. :
Signal Phase :
Signal Info :



VOA GC/MS DATA CHECKLIST
SW-846-8260B

PROJECT #: 25726	METHOD: 8260B
MATRIX: water	

INITIAL ANALYST ASSESSMENT

Are all standards within expiration dates for both stock and serial standards?	(Y)	N	NA
Are Tuning results compliant with method?	(Y)	N	NA
Are all CCC drift results, or target analyte drift results acceptable for CCV?	(Y)	N	NA
Are all SPCC Response Factors acceptable for CCV?	(Y)	N	NA
Are all CCV Internal Standard areas within -50% to +100% of initial calibration midlevel standard?	(Y)	N	NA
Are all CCV Internal Standard retention times within 30 seconds of initial cal. midlevel standard?	(Y)	N	NA
Are all sample Internal Standard areas w/in -50% to +100% of that in the CCV?	(Y)	N	NA
Are all sample Internal Standard retention times w/in 30 seconds of that in the CCV?	(Y)	N	NA
Is/Are blank result(s) less than 1 2 RDL for all analytes of interest?	(Y)	N	NA
Are all spike recoveries acceptable for the Blank Spike?	(Y)	N	NA
Are all surrogate standard recoveries acceptable (Blank, Blank Spike, samples)?	(Y)	N	NA
If Internal Standard, surrogate, or LCS are unacceptable was re-injection performed to confirm?	Y	N	(NA)
Were sample analyses performed within holding times?	(Y)	N	NA
Were analyses performed such that carryover was not a problem?	(Y)	N	NA
Are quantitations based on the latest acceptable initial calibration?	(Y)	N	NA
Are all requested analytes below the upper calibration limit?	(Y)	N	NA
If interfering ions are present, was identification made by looking at characteristic ions only?	Y	N	(NA)
Were TICS required? If so, were steps in section 7.6.2 followed in 8260B?	Y	N	(NA)
Are all mistakes single lined out, initialled, & dated?	(Y)	N	NA
Are pHs recorded for all water samples?	(Y)	N	NA
Are all analytes not to be reported lined off, initialed, and dated on the raw data?	(Y)	N	NA
Was analysis completed as instructed on the Log-in Record?	(Y)	N	NA
Has all data been entered into LIMS?	(Y)	N	NA

Analyst: VR

Date: 10/10/00 Time: 11:10

PEER REVIEW

Are Tuning results compliant with method?	(Y)	N	NA
Are all CCC drift results and SPCC Response Factors acceptable for CCV?	(Y)	N	NA
Are all CCV Internal Standard areas and retention times within method limits?	(Y)	N	NA
Are all sample Internal Standard areas and retention times within method limits?	(Y)	N	NA
Are all blank and QC results acceptable?	(Y)	N	NA
Are all surrogate standard recoveries acceptable?	(Y)	N	NA
Are quantitations based on the latest acceptable initial calibration?	(Y)	N	NA
Are all calculations correct and reported in the proper units?	(Y)	N	NA
Were sample analyses performed within holding times?	(Y)	N	NA
Is the run log completely filled out (including review signature/date)?	(Y)	N	NA
Are pHs recorded for all water samples?	(Y)	N	NA
Are all applicable runlog sheets signed, dated, and included?	(Y)	N	NA
Was analysis completed as instructed on the Log-in Record?	(Y)	N	NA
Have all LIMS entries been checked for accuracy?	(Y)	N	NA

Reviewer: Thomas A. Patel

Date: 10/13/2000 Time: 10:30

Accura Analytical Laboratory
GC/MS VOLATILE INSTRUMENT C RUNLOG

Date: 10/3/00
Analyst(s): TAG / VR
Calib. File 10020025 M
uant ID File: 10030025 M

BFB Standard Lot #: VOCC48
Surrogate Standard Lot #: V00052
Internal Standard lot #: V00053
Calib.Standard Lot #: V00050, V00051

GC Conditions
BFB: 80°C-10°C/10min-155°C
Samples: 40°C(4m)-8°C/min-180°C(2m)

	CCV IS RT	CV IS Areas
#1	5.80	543739
#2	12.19	452291
#3	16.32	22366

Surrogate Limits

DCE	TOL-d8	BFB
78-128	84-109	86-112

MS Conditions
EM: 1624
Tune File: BFBC1 M
Scan Delay: 1.00 min

File Name	Project ID	Lab Sam. ID	Client Sam. ID	Matrix	Volume	DF	ALS #	pH	-Cl	IS	SS	Comments
C16850	QC	BFB 50ng	—	—	2 ul	—	—	—	—	—	—	9:24
C16851	"	CCV 50ppb	—	W	25 ml	1	1	—	—	✓	✓	
C16852		waterBlank	—	W	25 ml	1	2	—	—	✓	✓	
C16853		water Blank	—	W	25 ml	1	2	—	—	✓	✓	
C16854	↓	water Blank SPIKE	—	W	25 ml	1	3	—	—	✓	✓	
C16855	25655	AC00001	—	W	25 ml	1	4	1	X	✓	✓	
C16856	25716	AC00434	—	W	5 ml	5	5	3	X	✓	✓	
C16857	25671	AC00078	—	W	25 ml	1	6	1	X	✓	✓	
C16858		AC00079	—	W	25 ml	1	7	1	X	✓	✓	
C16859	↓	AC00080	—	W	25 ml	1	8	1	X	✓	✓	
C16860	25726	AC00432	—	W	25 ml	1	9	1	X	✓	✓	
C16861		AC00431	—	W	25 ml	1	10	1	X	✓	✓	
C16862		AC00431MS	—	W	25 ml	1	11	1	X	✓	✓	
C16863		AC00431 MSD	—	W	25 ml	1	12	1	X	✓	✓	
C16864		AC00424	—	W	25 ml	1	14	1	X	✓	✓	
C16865		AC00425	—	W	25 ml	1	15	1	X	✓	✓	
C16866		AC00426	—	W	25 ml	1	16	1	X	✓	✓	
C16867		AC00427	—	W	25 ml	1	1	1	X	✓	✓	
C16868		AC00428	—	W	25 ml	1	2	1	X	✓	✓	
C16869		AC00429	—	W	25 ml	1	3	1	X	✓	✓	
C16870	↓	AC00430	—	W	25 ml	1	4	1	X	✓	✓	20:44
C												
C												
C												
C												
C												

Note: NDIL=Need Dilution NRI=Needs Reinjection MI=Matrix Interferences NC=Needs Concentrated

VR 10/4/00

Sign/Date: VR 10/4/00

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\100300\C16864.D Vial: 14
Acq On : 3 Oct 2000 17:40 Operator: TAG/VR
Sample : AC00424 25ml DF=1 Inst : VOA-C
Misc : 25726/C10020025 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 3 18:07 2000 Quant Results File: 10030025.RES

Quant Method : c:\hpchem\1\data\100300\10030025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Mon Oct 02 15:08:29 2000
Response via : Initial Calibration
DataAcq Meth : 10030025

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Pentafluorobenzene	5.85	168	572449	10.00 ug\L	0.02
45) Chlorobenzene-d5	12.22	117	495135	10.00 ug\L	0.00
61) 1,4-Dichlorobenzene-d4	16.33	152	238511	10.00 ug\L	0.00
System Monitoring Compounds					
32) 1,2-Dichloroethane-d4	6.33	65	130772	9.05 ug\L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 90.50%		
46) Toluene-d8	9.69	98	715280	9.38 ug\L	0.00
Spiked Amount 10.000	Range 87 - 104		Recovery = 93.80%		
65) Bromofluorobenzene	14.30	95	362656	9.93 ug\L	0.00
Spiked Amount 10.000	Range 84 - 110		Recovery = 99.30%		
Target Compounds					Qvalue
8) Acrolein	3.56	56	66	~~0.71 ug\L #~~	1
11) Acetone	2.67	58	751	~~2.79 ug\L #~~	1
15) Acetonitrile	3.10	41	10703	~~14.39 ug\L #~~	48
20) Vinyl Acetate	3.91	43	73	~~0.67 ug\L #~~	73
36) Trichloroethene	7.15	95	19195	~~0.60 ug\L #~~	9
64) 1,4-dichloro-2-Butene	14.31	75	184424	~~8.76 ug\L #~~	100
68) 1,2,3-Trichloropropane	14.31	75	183210	~~15.95 ug\L #~~	100
85) Naphthalene	20.26	128	5940	0.89 ug\L	100

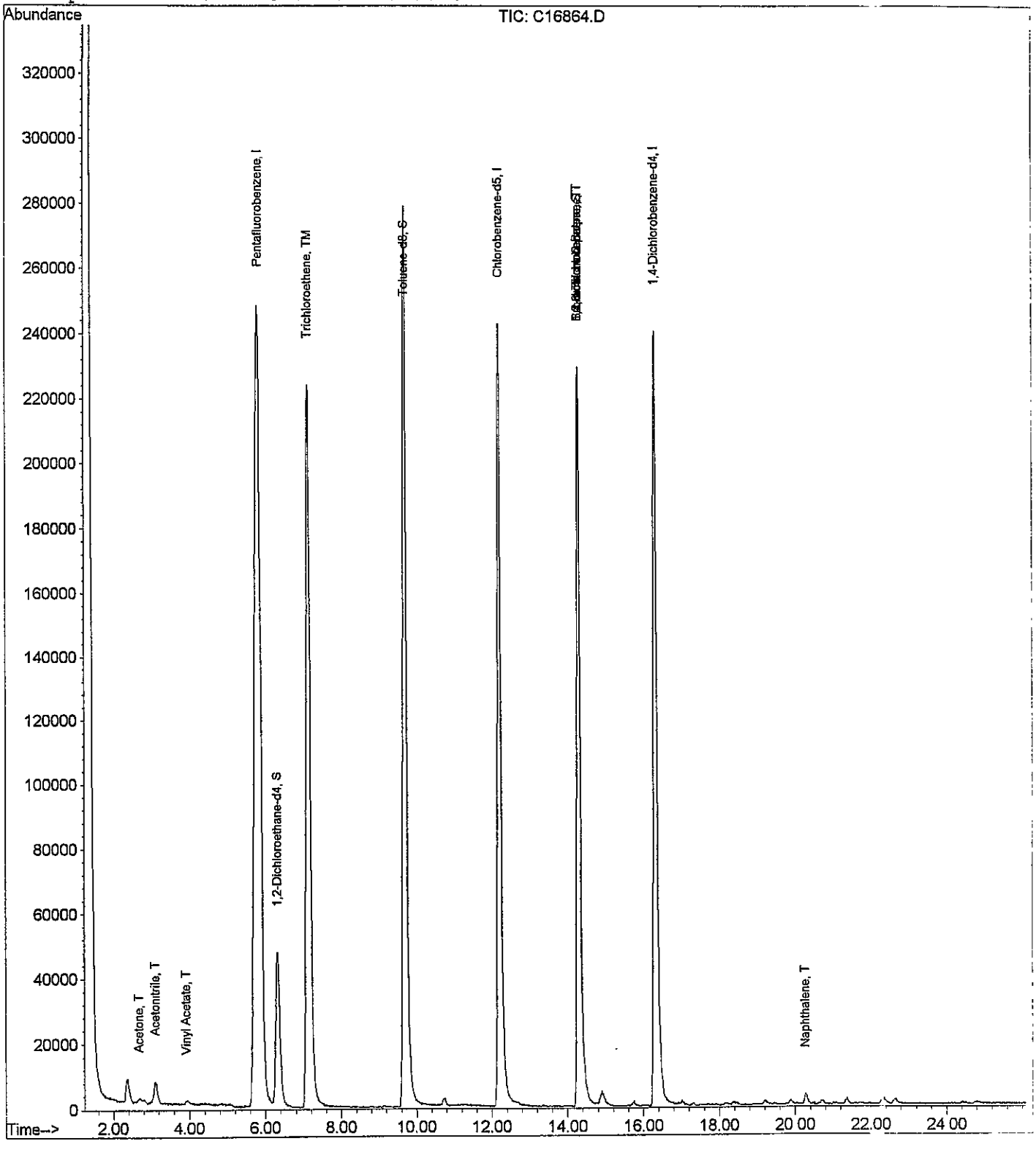
VR
10/3/00

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

Quantitation Report

Data File : C:\HPCHEM\1\DATA\100300\C16864.D Vial: 14
Acq On : 3 Oct 2000 17:40 Operator: TAG/VR
Sample : AC00424 25ml DF=1 Inst : VOA-C
Misc : 25726/C10020025 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 3 18:07 2000 Quant Results File: 10030025.RES

Method : c:\hpchem\1\data\100300\10030025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Mon Oct 02 15:08:29 2000
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\100300\C16865.D Vial: 15
Acq On : 3 Oct 2000 18:11 Operator: TAG/VR
Sample : AC00425 25ml DF=1 Inst : VOA-C
Misc : 25726/C10020025 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 3 18:37 2000 Quant Results File: 10030025.RES

Quant Method : c:\hpchem\1\data\100300\10030025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Mon Oct 02 15:08:29 2000
Response via : Initial Calibration
DataAcq Meth : 10030025

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Pentafluorobenzene	5.85	168	556910	10.00 ug\L	0.02
45) Chlorobenzene-d5	12.21	117	481609	10.00 ug\L	0.00
61) 1,4-Dichlorobenzene-d4	16.32	152	234193	10.00 ug\L	0.00
System Monitoring Compounds					
32) 1,2-Dichloroethane-d4	6.32	65	126559	9.00 ug\L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 90.00%		
46) Toluene-d8	9.70	98	702542	9.47 ug\L	0.01
Spiked Amount 10.000	Range 87 - 104		Recovery = 94.70%		
65) Bromofluorobenzene	14.30	95	350531	9.78 ug\L	0.00
Spiked Amount 10.000	Range 84 - 110		Recovery = 97.80%		
Target Compounds					Qvalue
8) Acrolein	3.11	56	1362	~~3.59 ug\L #~~	1
9) Acrylonitrile	3.13	53	1167	~~1.23 ug\L #~~	1
11) Acetone	2.70	58	204	~~0.78 ug\L #~~	1
15) Acetonitrile	3.13	41	20124	~~17.56 ug\L #~~	51
16) Methylene Chloride	3.09	86	969	~~0.58 ug\L #~~	1
20) Vinyl Acetate	3.68	43	60	~~0.67 ug\L #~~	73
36) Trichloroethene	7.13	95	18576	~~0.60 ug\L #~~	9
42) 2-Chloroethyl-vinyl ether	9.05	63	61	~~2.11 ug\L #~~	47
64) 1,4-dichloro-2-Butene	14.30	75	179892	~~8.70 ug\L~~ #	100
68) 1,2,3-Trichloropropane	14.30	75	173892	~~15.42 ug\L #~~	100
85) Naphthalene	20.29	128	1495	0.69 ug\L	100

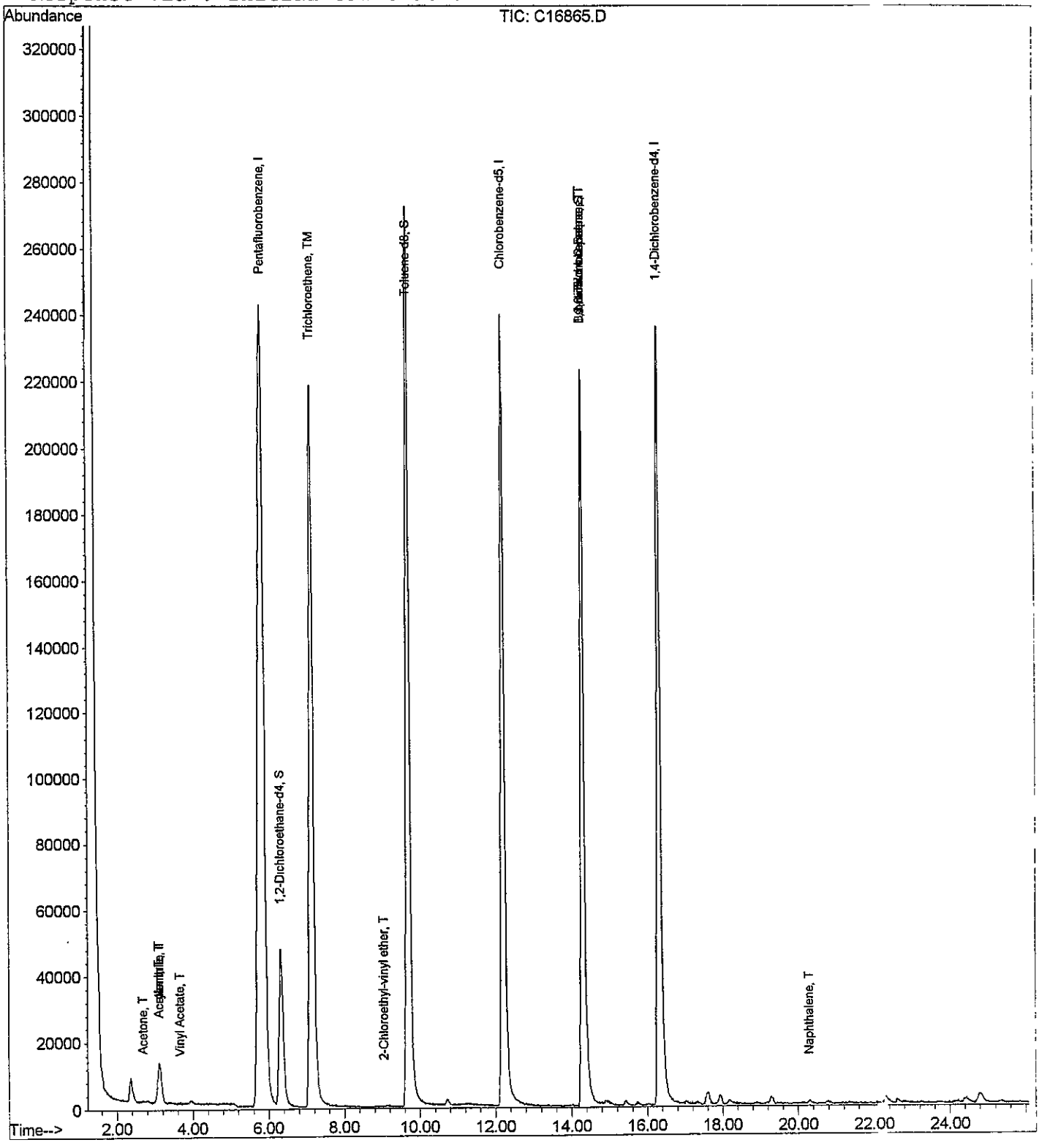
VR
10/3/00

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

Quantitation Report

Data File : C:\HPCHEM\1\DATA\100300\C16865.D Vial: 15
Acq On : 3 Oct 2000 18:11 Operator: TAG/VR
Sample : AC00425 25ml DF=1 Inst : VOA-C
Misc : 25726/C10020025 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 3 18:37 2000 Quant Results File: 10030025.RES

Method : c:\hpchem\1\data\100300\10030025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Mon Oct 02 15:08:29 2000
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\100300\C16866.D Vial: 16
Acq On : 3 Oct 2000 18:41 Operator: TAG/VR
Sample : AC00426 25ml DF=1 Inst : VOA-C
Misc : 25726/C10020025 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 3 19:08 2000 Quant Results File: 10030025.RES

Quant Method : c:\hpchem\1\data\100300\10030025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Mon Oct 02 15:08:29 2000
Response via : Initial Calibration
DataAcq Meth : 10030025

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Pentafluorobenzene	5.85	168	550891	10.00 ug\L	0.03
45) Chlorobenzene-d5	12.21	117	491834	10.00 ug\L	0.00
61) 1,4-Dichlorobenzene-d4	16.32	152	236537	10.00 ug\L	0.00
System Monitoring Compounds					
32) 1,2-Dichloroethane-d4	6.34	65	127068	9.14 ug\L	0.03
Spiked Amount 10.000	Range 80 - 120		Recovery = 91.40%		
46) Toluene-d8	9.71	98	694841	9.18 ug\L	0.03
Spiked Amount 10.000	Range 87 - 104		Recovery = 91.80%		
65) Bromofluorobenzene	14.30	95	348816	9.63 ug\L	0.00
Spiked Amount 10.000	Range 84 - 110		Recovery = 96.30%		
Target Compounds					Qvalue
11) Acetone	2.68	58	982	~~3.79 ug\L~~	87
15) Acetonitrile	3.13	41	17242	~~16.68 ug\L #~~	60
16) Methylene Chloride	3.11	86	1421	~~0.53 ug\L #~~	1
20) Vinyl Acetate	3.69	43	133	~~0.67 ug\L #~~	73
36) Trichloroethene	7.15	95	18599	~~0.60 ug\L #~~	9
64) 1,4-dichloro-2-Butene	14.30	75	176424	~~8.44 ug\L #~~	100
68) 1,2,3-Trichloropropane	14.30	75	166697	~~14.64 ug\L #~~	100
85) Naphthalene	20.29	128	5712	0.89 ug\L	100

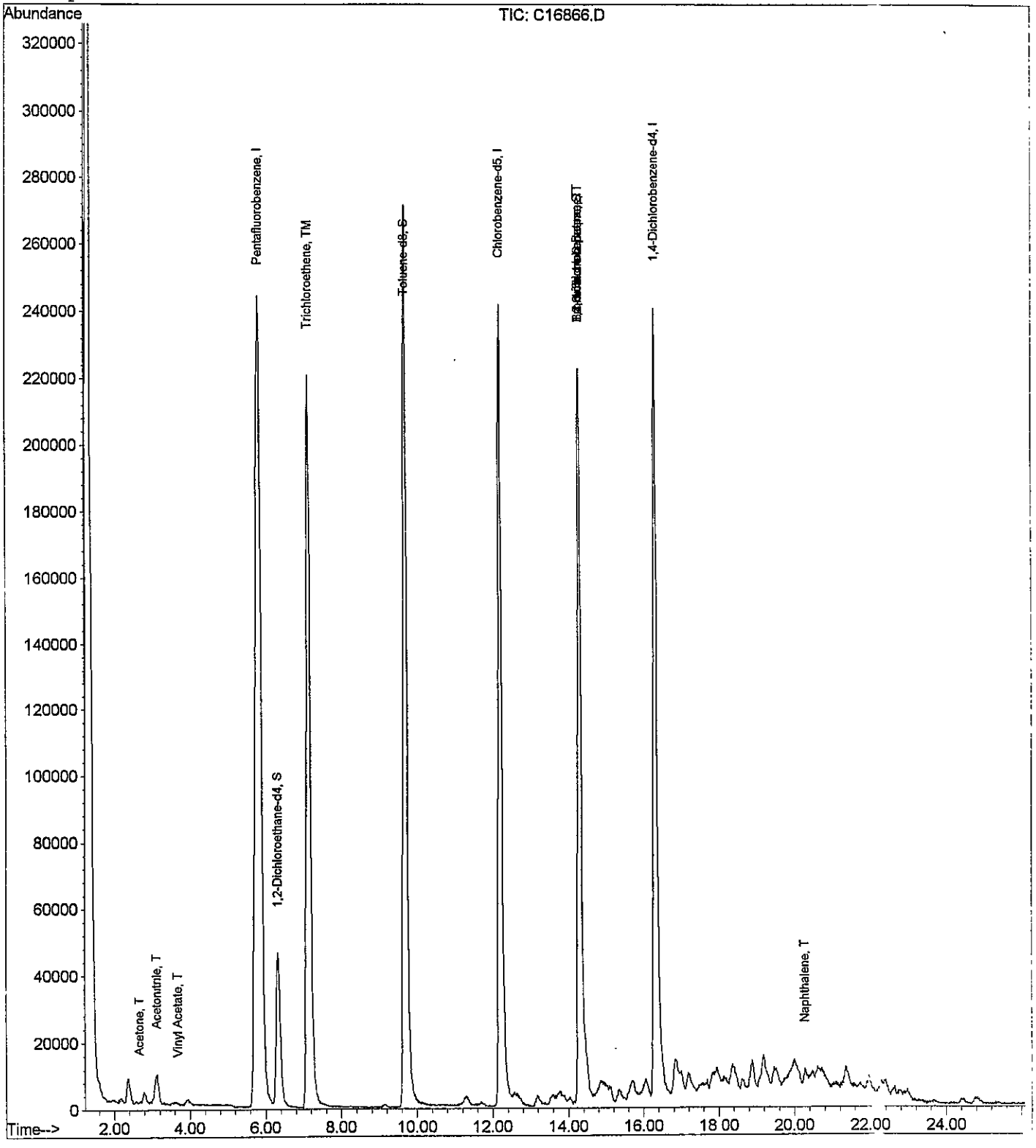
VR
10/3/00

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

Quantitation Report

Data File : C:\HPCHEM\1\DATA\100300\C16866.D Vial: 16
Acq On : 3 Oct 2000 18:41 Operator: TAG/VR
Sample : AC00426 25ml DF=1 Inst : VOA-C
Misc : 25726/C10020025 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 3 19:08 2000 Quant Results File: 10030025.RES

Method : c:\hpchem\1\data\100300\10030025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Mon Oct 02 15:08:29 2000
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\100300\C16867.D Vial: 1
Acq On : 3 Oct 2000 19:12 Operator: TAG/VR
Sample : AC00427 25ml DF=1 Inst : VOA-C
Misc : 25726/C10020025 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 3 19:38 2000 Quant Results File: 10030025.RES

Quant Method : c:\hpchem\1\data\100300\10030025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Mon Oct 02 15:08:29 2000
Response via : Initial Calibration
DataAcq Meth : 10030025

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Pentafluorobenzene	5.85	168	507510	10.00 ug\L	0.02
45) Chlorobenzene-d5	12.21	117	477492	10.00 ug\L	0.00
61) 1,4-Dichlorobenzene-d4	16.32	152	234253	10.00 ug\L	0.00
System Monitoring Compounds					
32) 1,2-Dichloroethane-d4	6.34	65	127861	9.98 ug\L	0.02
Spiked Amount 10.000	Range 80 - 120		Recovery = 99.80%		
46) Toluene-d8	9.71	98	671377	9.13 ug\L	0.02
Spiked Amount 10.000	Range 87 - 104		Recovery = 91.30%		
65) Bromofluorobenzene	14.31	95	345005	9.62 ug\L	0.01
Spiked Amount 10.000	Range 84 - 110		Recovery = 96.20%		
Target Compounds					Qvalue
8) Acrolein	3.13	56	954	~~2.55 ug\L~~ #	88
11) Acetone	2.68	58	997	~~4.18 ug\L~~	76
15) Acetonitrile	3.11	41	14115	~~16.05 ug\L~~ #	61
16) Methylene Chloride	3.09	86	133	~~0.67 ug\L~~ #	1
20) Vinyl Acetate	3.66	43	59	~~0.67 ug\L~~ #	73
36) Trichloroethene	7.15	95	18857	~~0.67 ug\L~~ #	9
64) 1,4-dichloro-2-Butene	14.30	75	178097	~~8.61 ug\L~~ #	100
68) 1,2,3-Trichloropropane	14.30	75	171126	~~15.17 ug\L~~ #	100
85) Naphthalene	20.30	128	2306	0.72 ug\L	100

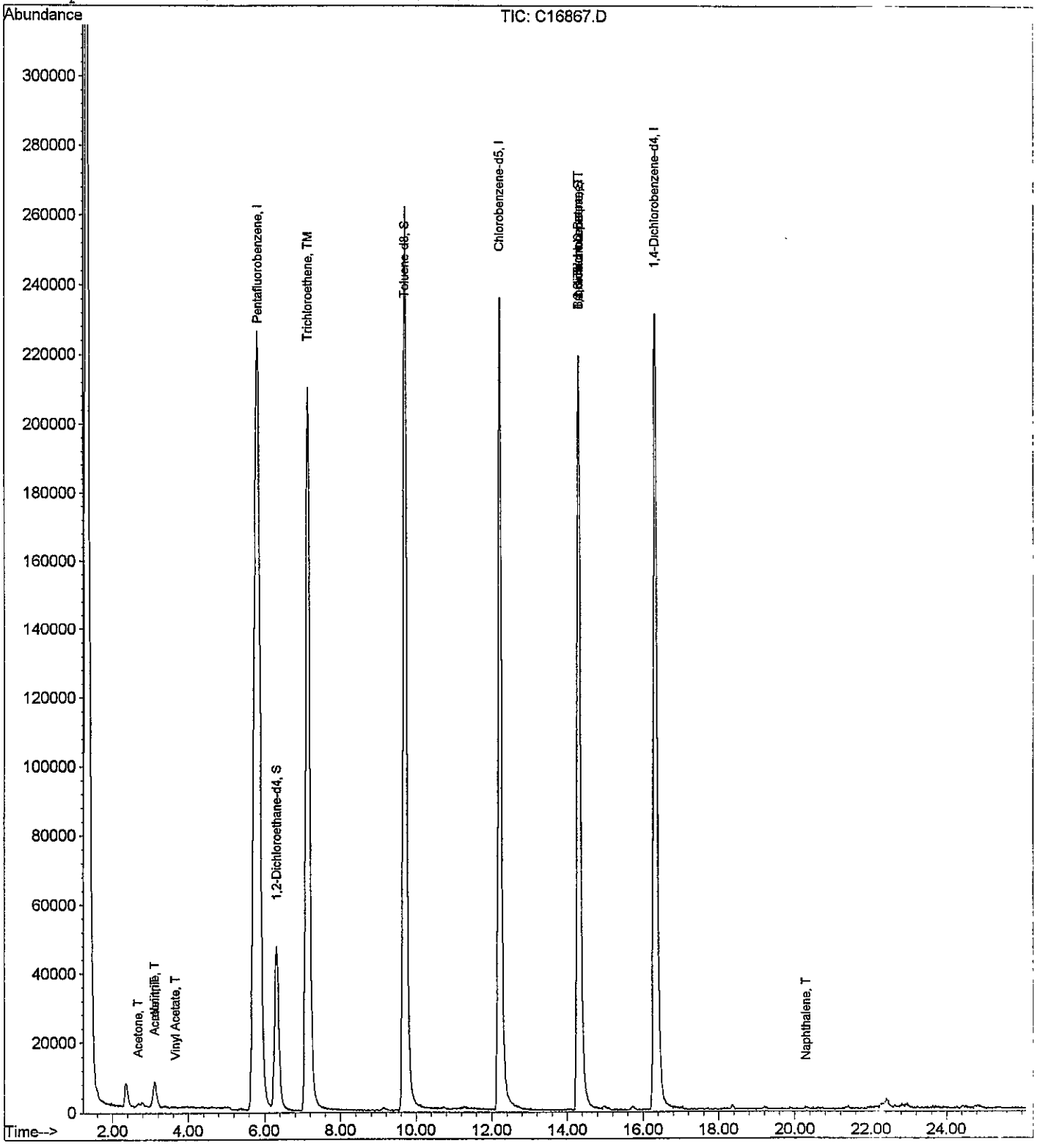
VR
10/3/00

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

Quantitation Report

Data File : C:\HPCHEM\1\DATA\100300\C16867.D Vial: 1
Acq On : 3 Oct 2000 19:12 Operator: TAG/VR
Sample : AC00427 25ml DF=1 Inst : VOA-C
Misc : 25726/C10020025 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 3 19:38 2000 Quant Results File: 10030025.RES

Method : c:\hpchem\1\data\100300\10030025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Mon Oct 02 15:08:29 2000
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\100300\C16868.D Vial: 2
Acq On : 3 Oct 2000 19:43 Operator: TAG/VR
Sample : AC00428 25ml DF=1 Inst : VOA-C
Misc : 25726/C10020025 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 3 20:09 2000 Quant Results File: 10030025.RES

Quant Method : c:\hpchem\1\data\100300\10030025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Mon Oct 02 15:08:29 2000
Response via : Initial Calibration
DataAcq Meth : 10030025

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Pentafluorobenzene	5.84	168	543746	10.00 ug\L	0.01
45) Chlorobenzene-d5	12.21	117	498816	10.00 ug\L	0.00
61) 1,4-Dichlorobenzene-d4	16.33	152	240615	10.00 ug\L	0.01
System Monitoring Compounds					
32) 1,2-Dichloroethane-d4	6.33	65	133726	9.74 ug\L	0.01
Spiked Amount 10.000	Range 80 - 120		Recovery = 97.40%		
46) Toluene-d8	9.70	98	707902	9.22 ug\L	0.01
Spiked Amount 10.000	Range 87 - 104		Recovery = 92.20%		
65) Bromofluorobenzene	14.30	95	364658	9.90 ug\L	0.00
Spiked Amount 10.000	Range 84 - 110		Recovery = 99.00%		
Target Compounds					Qvalue
11) Acetone	2.67	58	186	~~0.73 ug\L #~~	1
15) Acetonitrile	3.13	41	8348	~~13.78 ug\L #~~	30
16) Methylene Chloride	3.12	86	65	~~0.68 ug\L #~~	1
20) Vinyl Acetate	3.61	43	79	~~0.67 ug\L #~~	73
36) Trichloroethene	7.13	95	19154	0.63 ug\L #	9
64) 1,4-dichloro-2-Butene	14.30	75	187838	~~8.84 ug\L #~~	100
68) 1,2,3-Trichloropropane	14.30	75	181322	~~15.65 ug\L #~~	100
85) Naphthalene	20.28	128	392	0.63 ug\L	100

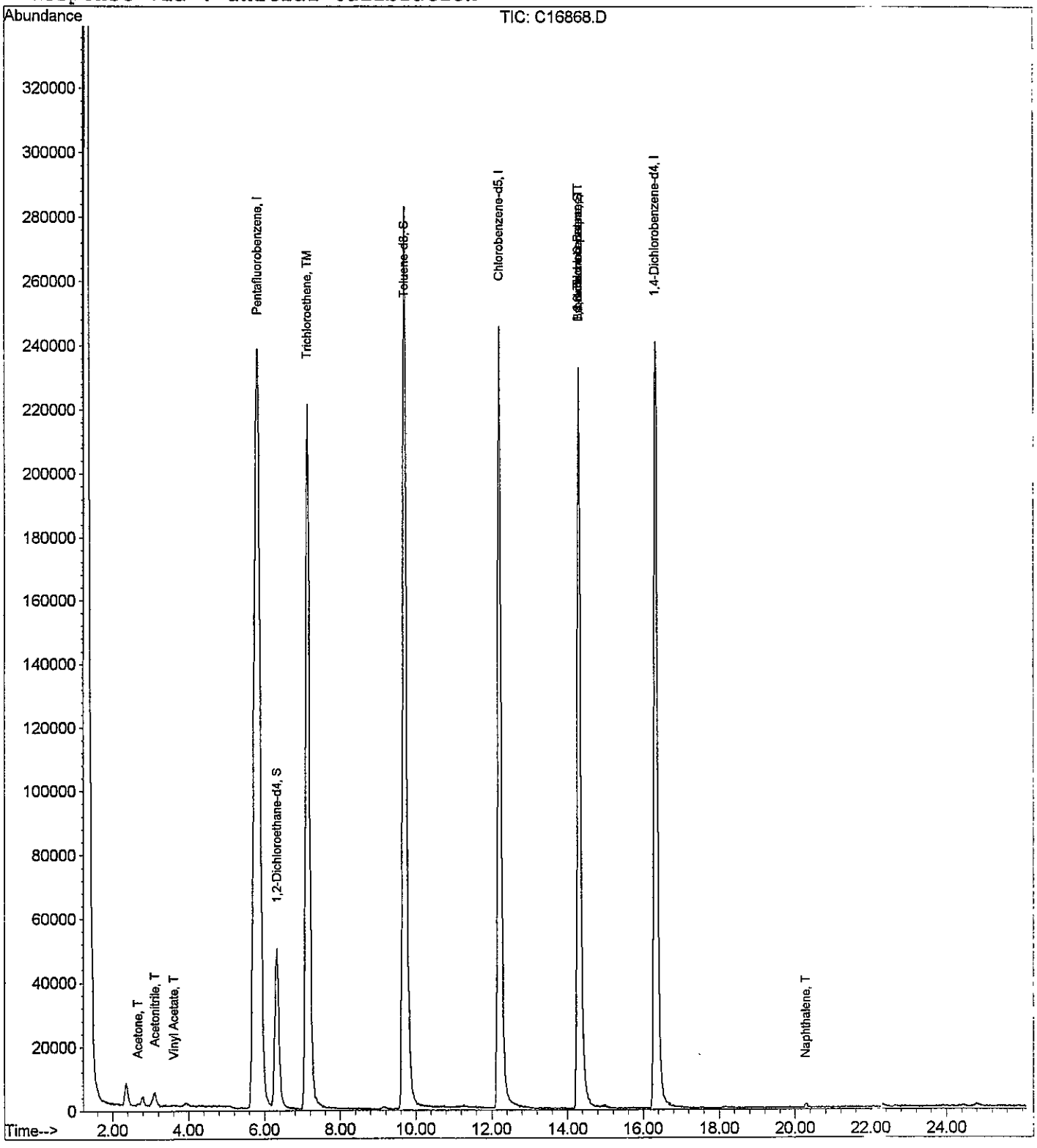
VR
10/3/00

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

Quantitation Report

Data File : C:\HPCHEM\1\DATA\100300\C16868.D Vial: 2
Acq On : 3 Oct 2000 19:43 Operator: TAG/VR
Sample : AC00428 25ml DF=1 Inst : VOA-C
Misc : 25726/C10020025 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 3 20:09 2000 Quant Results File: 10030025.RES

Method : c:\hpchem\1\data\100300\10030025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Mon Oct 02 15:08:29 2000
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\100300\C16869.D Vial: 3
Acq On : 3 Oct 2000 20:13 Operator: TAG/VR
Sample : AC00429 25ml DF=1 Inst : VOA-C
Misc : 25726/C10020025 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 3 20:39 2000 Quant Results File: 10030025.RES

Quant Method : c:\hpchem\1\data\100300\10030025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Mon Oct 02 15:08:29 2000
Response via : Initial Calibration
DataAcq Meth : 10030025

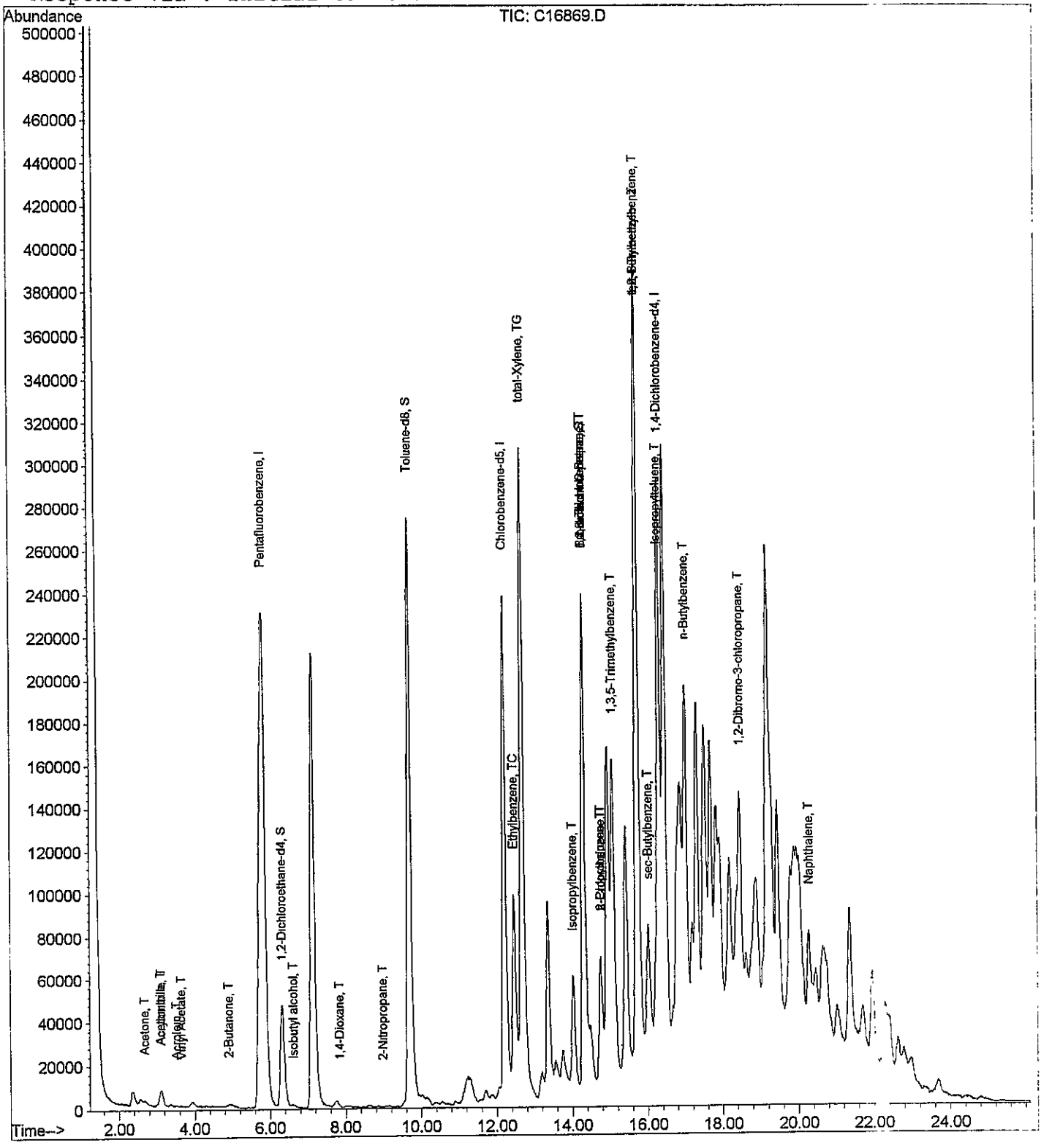
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Pentafluorobenzene	5.83	168	529407	10.00 ug\L	0.00
45) Chlorobenzene-d5	12.21	117	477466	10.00 ug\L	0.00
61) 1,4-Dichlorobenzene-d4	16.32	152	232500	10.00 ug\L	0.00
System Monitoring Compounds					
32) 1,2-Dichloroethane-d4	6.32	65	127228	9.52 ug\L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 95.20%		
46) Toluene-d8	9.70	98	687696	9.35 ug\L	0.01
Spiked Amount 10.000	Range 87 - 104		Recovery = 93.50%		
65) Bromofluorobenzene	14.30	95	355566	9.99 ug\L	0.00
Spiked Amount 10.000	Range 84 - 110		Recovery = 99.90%		
Target Compounds					Qvalue
8) Acrolein	3.54	56	460	~~0.68 ug\L #~~	1
9) Acrylonitrile	3.14	53	508	~~0.56 ug\L #~~	35
11) Acetone	2.68	58	2664	~~10.71 ug\L~~	97
15) Acetonitrile	3.11	41	14603	~~16.00 ug\L #~~	29
16) Methylene Chloride	3.09	86	126	~~0.67 ug\L #~~	1
20) Vinyl Acetate	3.66	43	151	~~0.67 ug\L #~~	73
23) 2-Butanone	4.91	72	852	~~1.77 ug\L #~~	1
30) 1,4-Dioxane	7.85	88	75	~~15.56 ug\L #~~	24
34) Isobutyl alcohol	6.63	43	1618	~~14.58 ug\L #~~	31
41) 2-Nitropropane	9.00	43	472	~~0.65 ug\L #~~	100
58) Ethylbenzene	12.47	91	260193	2.90 ug\L	99
59) total-Xylene	12.69	106	381951m	12.01 ug\L	
63) Isopropylbenzene	14.04	105	127384	1.24 ug\L	99
64) 1,4-dichloro-2-Butene	14.30	75	176765	~~8.61 ug\L #~~	100
68) 1,2,3-Trichloropropane	14.30	75	168365	~~15.04 ug\L #~~	100
69) n-Propylbenzene	14.76	91	148878	1.23 ug\L	93
70) 2-Chlorotoluene	14.76	91	148878	~~2.25 ug\L #~~	56
72) 1,3,5-Trimethylbenzene	15.09	105	313688	4.07 ug\L	88
74) tert-Butylbenzene	15.73	119	98122	~~1.04 ug\L #~~	56
75) 1,2,4-Trimethylbenzene	15.73	105	889699	11.81 ug\L #	84
76) sec-Butylbenzene	16.03	105	150101	1.23 ug\L	96
78) Isopropyltoluene	16.28	119	154935	~~1.67 ug\L #~~	78
81) n-Butylbenzene	17.02	91	126164	~~1.24 ug\L #~~	1
82) 1,2-Dibromo-3-chloropropan	18.45	75	710	~~0.67 ug\L #~~	16
85) Naphthalene	20.28	128	64093	3.72 ug\L	100

VR
10/4/00

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

Data File : C:\HPCHEM\1\DATA\100300\C16869.D Vial: 3
Acq On : 3 Oct 2000 20:13 Operator: TAG/VR
Sample : AC00429 25ml DF=1 Inst : VOA-C
Misc : 25726/C10020025 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 3 20:39 2000 Quant Results File: 10030025.RES

Method : c:\hpchem\1\data\100300\10030025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Mon Oct 02 15:08:29 2000
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\100300\C16870.D Vial: 4
Acq On : 3 Oct 2000 20:44 Operator: TAG/VR
Sample : AC00430 25ml DF=1 Inst : VOA-C
Misc : 25726/C10020025 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 3 21:10 2000 Quant Results File: 10030025.RES

Quant Method : c:\hpchem\1\data\100300\10030025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Mon Oct 02 15:08:29 2000
Response via : Initial Calibration
DataAcq Meth : 10030025

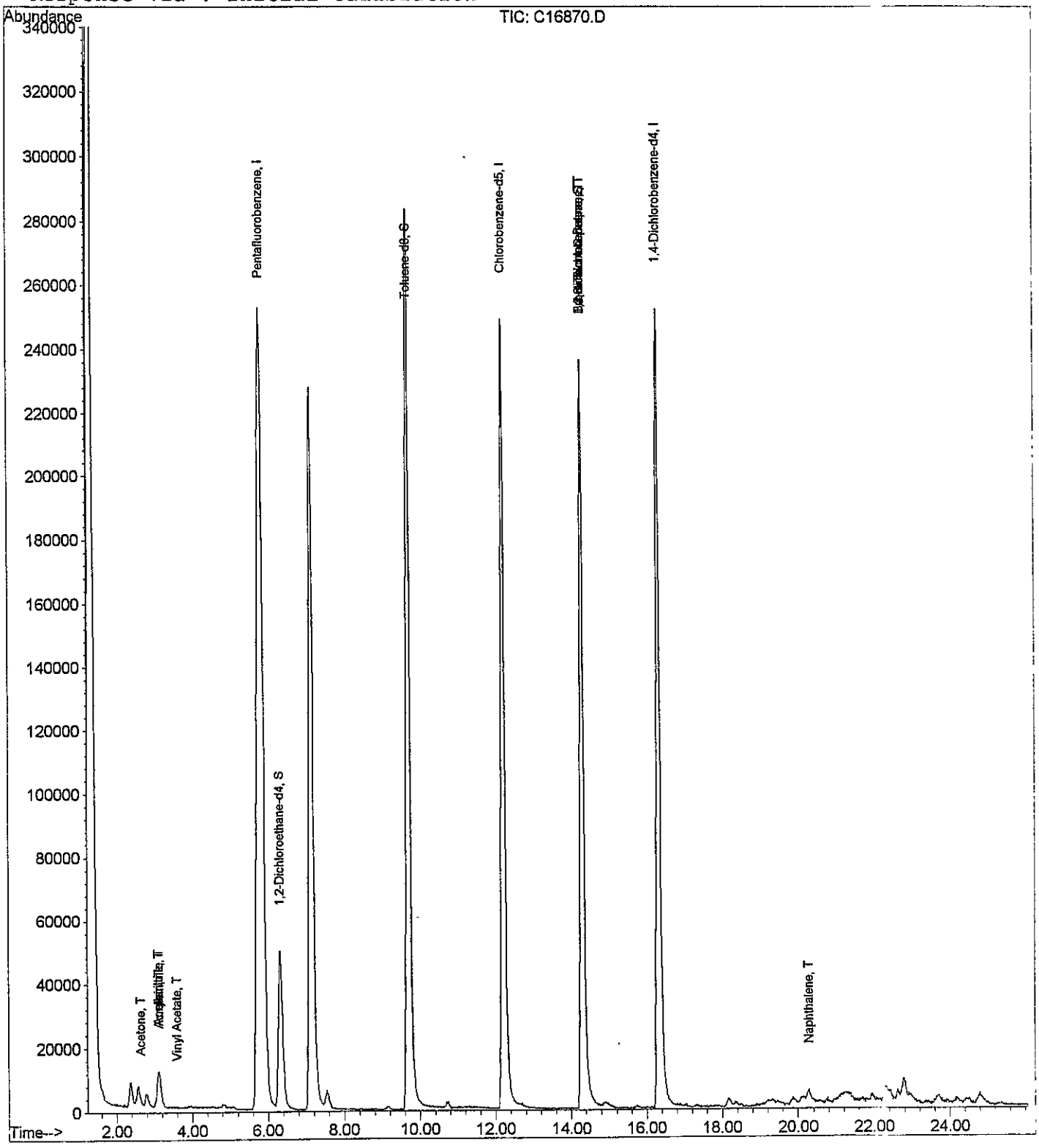
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Pentafluorobenzene	5.84	168	575279	10.00 ug\L	0.01
45) Chlorobenzene-d5	12.22	117	514177	10.00 ug\L	0.01
61) 1,4-Dichlorobenzene-d4	16.33	152	250747	10.00 ug\L	0.01
System Monitoring Compounds					
32) 1,2-Dichloroethane-d4	6.32	65	136771	9.42 ug\L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 94.20%		
46) Toluene-d8	9.71	98	728030	9.20 ug\L	0.02
Spiked Amount 10.000	Range 87 - 104		Recovery = 92.00%		
65) Bromofluorobenzene	14.31	95	370682	9.66 ug\L	0.01
Spiked Amount 10.000	Range 84 - 110		Recovery = 96.60%		
Target Compounds					Qvalue
8) Acrolein	3.15	56	829	~~1.74 ug\L #~~	77
9) Acrylonitrile	3.11	53	1590	~~1.62 ug\L #~~	35
11) Acetone	2.66	58	467	~~1.73 ug\L #~~	40
15) Acetonitrile	3.12	41	22604	~~18.13 ug\L #~~	60
16) Methylene Chloride	3.07	86	87	~~-0.67 ug\L #~~	1
20) Vinyl Acetate	3.61	43	60	~~0.67 ug\L #~~	73
64) 1,4-dichloro-2-Butene	14.30	75	190109	~~8.58 ug\L #~~	100
68) 1,2,3-Trichloropropane	14.30	75	181764	~~15.06 ug\L #~~	100
85) Naphthalene	20.29	128	5507	0.86 ug\L	100

VR
10/4/00

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

Data File : C:\HPCHEM\1\DATA\100300\C16870.D Vial: 4
Acq On : 3 Oct 2000 20:44 Operator: TAG/VR
Sample : AC00430 25ml DF=1 Inst : VOA-C
Misc : 25726/C10020025 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 3 21:10 2000 Quant Results File: 10030025.RES

Method : c:\hpchem\1\data\100300\10030025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Mon Oct 02 15:08:29 2000
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\100300\C16861.D Vial: 10
Acq On : 3 Oct 2000 15:38 Operator: TAG/VR
Sample : AC00431 25ml DF=1 Inst : VOA-C
Misc : 25726/C10020025 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 3 16:05 2000 Quant Results File: 10030025.RES

Quant Method : c:\hpchem\1\data\100300\10030025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Mon Oct 02 15:08:29 2000
Response via : Initial Calibration
DataAcq Meth : 10030025

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Pentafluorobenzene	5.84	168	552652	10.00 ug\L	0.02
45) Chlorobenzene-d5	12.21	117	469967	10.00 ug\L	0.00
61) 1,4-Dichlorobenzene-d4	16.32	152	226263	10.00 ug\L	0.00
System Monitoring Compounds					
32) 1,2-Dichloroethane-d4	6.33	65	125057	8.96 ug\L	0.02
Spiked Amount 10.000	Range 80 - 120		Recovery = 89.60%		
46) Toluene-d8	9.69	98	688625	9.52 ug\L	0.00
Spiked Amount 10.000	Range 87 - 104		Recovery = 95.20%		
65) Bromofluorobenzene	14.30	95	338153	9.76 ug\L	0.00
Spiked Amount 10.000	Range 84 - 110		Recovery = 97.60%		
Target Compounds					Qvalue
3) Chloromethane	1.59	50	7653	~~0.51 ug\L~~	99
5) Bromomethane	1.90	94	60	~~176.17 ug\L #~~	3
8) Acrolein	3.15	56	70	~~-0.69 ug\L #~~	19
15) Acetonitrile	3.12	41	7153	~~-13.35 ug\L #~~	42
16) Methylene Chloride	3.09	86	759	~~-0.60 ug\L #~~	2
20) Vinyl Acetate	3.64	43	194	~~-0.68 ug\L #~~	73
36) Trichloroethene	7.11	95	18187	~~-0.59 ug\L #~~	9
64) 1,4-dichloro-2-Butene	14.31	75	175437	~~-8.78 ug\L #~~	100
68) 1,2,3-Trichloropropane	14.31	75	168198	~~-15.44 ug\L #~~	100
85) Naphthalene	20.30	128	2423	0.73 ug\L	100

VR 10/12/00

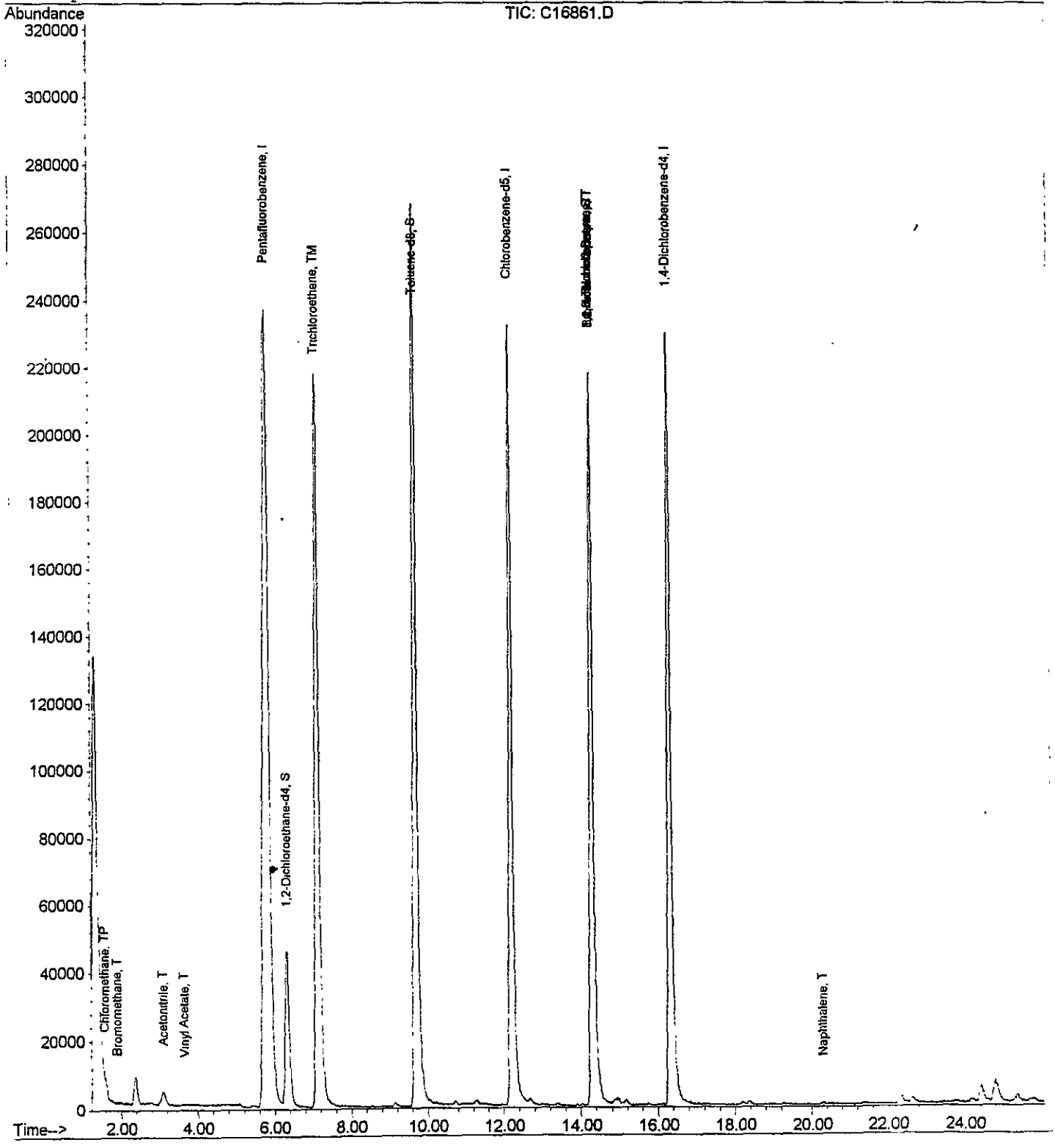
VR
10/3/00

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

Quantitation Report

Data File : C:\HPCHEM\1\DATA\100300\C16861.D Vial: 10
Acq On : 3 Oct 2000 15:38 Operator: TAG/VR
Sample : AC00431 25ml DF=1 Inst : VOA-C
Misc : 25726/C10020025 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 3 16:05 2000 Quant Results File: 10030025.RES

Method : c:\hpchem\1\data\100300\10030025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Mon Oct 02 15:08:29 2000
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\100300\C16860.D Vial: 9
Acq On : 3 Oct 2000 15:08 Operator: TAG/VR
Sample : AC00432 25ml DF=1 Inst : VOA-C
Misc : 25726/C10020025 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 3 15:35 2000 Quant Results File: 10030025.RES

Quant Method : c:\hpchem\1\data\100300\10030025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Mon Oct 02 15:08:29 2000
Response via : Initial Calibration
DataAcq Meth : 10030025

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Pentafluorobenzene	5.85	168	565733	10.00 ug\L	0.02
45) Chlorobenzene-d5	12.21	117	489875	10.00 ug\L	0.00
61) 1,4-Dichlorobenzene-d4	16.32	152	236131	10.00 ug\L	0.00
System Monitoring Compounds					
32) 1,2-Dichloroethane-d4	6.32	65	120951	8.47 ug\L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 84.70%		
46) Toluene-d8	9.68	98	691132	9.16 ug\L	0.00
Spiked Amount 10.000	Range 87 - 104		Recovery = 91.60%		
65) Bromofluorobenzene	14.30	95	346296	9.58 ug\L	0.00
Spiked Amount 10.000	Range 84 - 110		Recovery = 95.80%		
Target Compounds					Qvalue
4) Vinyl Chloride	2.36	62	14177	~~0.67 ug\L #~~	65
5) Bromomethane	1.89	94	223	~~176.16 ug\L #~~	65
7) Trichlorofluoromethane	2.36	101	78260	~~1.67 ug\L #~~	100
11) Acetone	2.69	58	804	~~3.02 ug\L #~~	1
15) Acetonitrile	3.11	41	13406	~~15.30 ug\L #~~	29
36) Trichloroethene	7.14	95	19205	~~0.61 ug\L #~~	9
47) Toluene	9.79	92	41291	0.91 ug\L	99
64) 1,4-dichloro-2-Butene	14.30	75	175538	~~8.41 ug\L #~~	100
68) 1,2,3-Trichloropropane	14.30	75	169759	~~14.93 ug\L #~~	100
85) Naphthalene	20.28	128	4363	0.82 ug\L	100

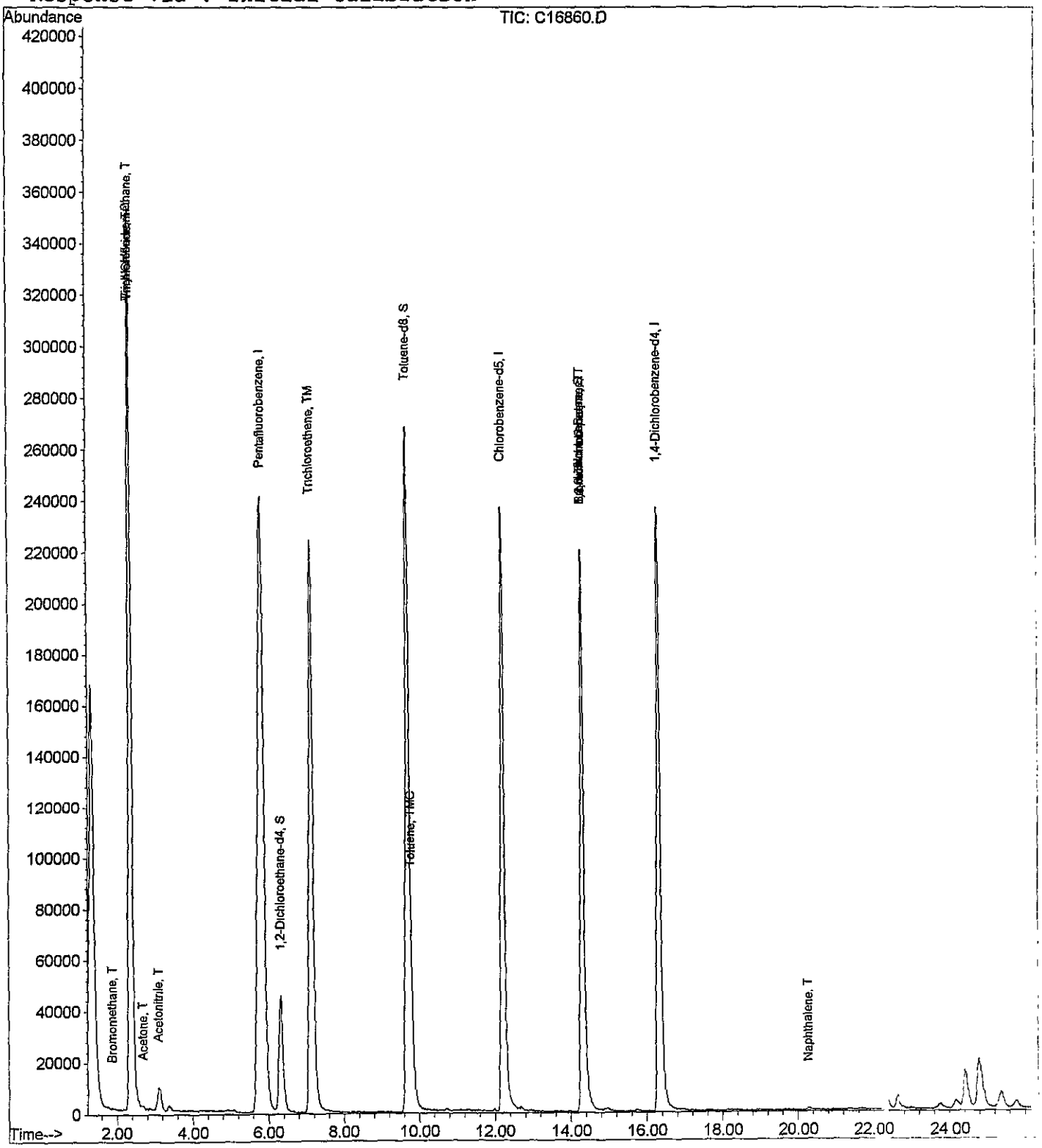
VR
10/3/00

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

Quantitation Report

Data File : C:\HPCHEM\1\DATA\100300\C16860.D Vial: 9
Acq On : 3 Oct 2000 15:08 Operator: TAG/VR
Sample : AC00432 25ml DF=1 Inst : VOA-C
Misc : 25726/C10020025 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 3 15:35 2000 Quant Results File: 10030025.RES

Method : c:\hpchem\1\data\100300\10030025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Mon Oct 02 15:08:29 2000
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\100300\C16853.D Vial: 2
Acq On : 3 Oct 2000 11:16 Operator: TAG/VR
Sample : WATER BLANK 25ml DF=1 Inst : VOA-C
Misc : QC Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 3 11:43 2000 Quant Results File: 10030025.RES

Quant Method : C:\HPCHEM\1\DATA\100300\10030025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Mon Oct 02 15:08:29 2000
Response via : Initial Calibration
DataAcq Meth : 10030025

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Pentafluorobenzene	5.82	168	572497	10.00 ug\L	0.00
45) Chlorobenzene-d5	12.20	117	456911	10.00 ug\L	0.00
61) 1,4-Dichlorobenzene-d4	16.32	152	217853	10.00 ug\L	0.00
System Monitoring Compounds					
32) 1,2-Dichloroethane-d4	6.31	65	117757	8.15 ug\L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 81.50%		
46) Toluene-d8	9.69	98	676252	9.61 ug\L	0.00
Spiked Amount 10.000	Range 87 - 104		Recovery = 96.10%		
65) Bromofluorobenzene	14.29	95	324720	9.74 ug\L	0.00
Spiked Amount 10.000	Range 84 - 110		Recovery = 97.40%		
Target Compounds					Qvalue
15) Acetonitrile	3.09	41	8065	~~13.55 ug\L #~~	~~12~~
20) Vinyl Acetate	3.64	43	768	~~0.72 ug\L #~~	73
36) Trichloroethene	7.12	95	18407	~~0.58 ug\L #~~	9
64) 1,4-dichloro-2-Butene	14.30	75	167039	~~8.68 ug\L~~ #	100
68) 1,2,3-Trichloropropane	14.30	75	159234	~~15.18 ug\L #~~	100
85) Naphthalene	20.28	128	3707	(0.81 ug\L)	100

< ½ RDL

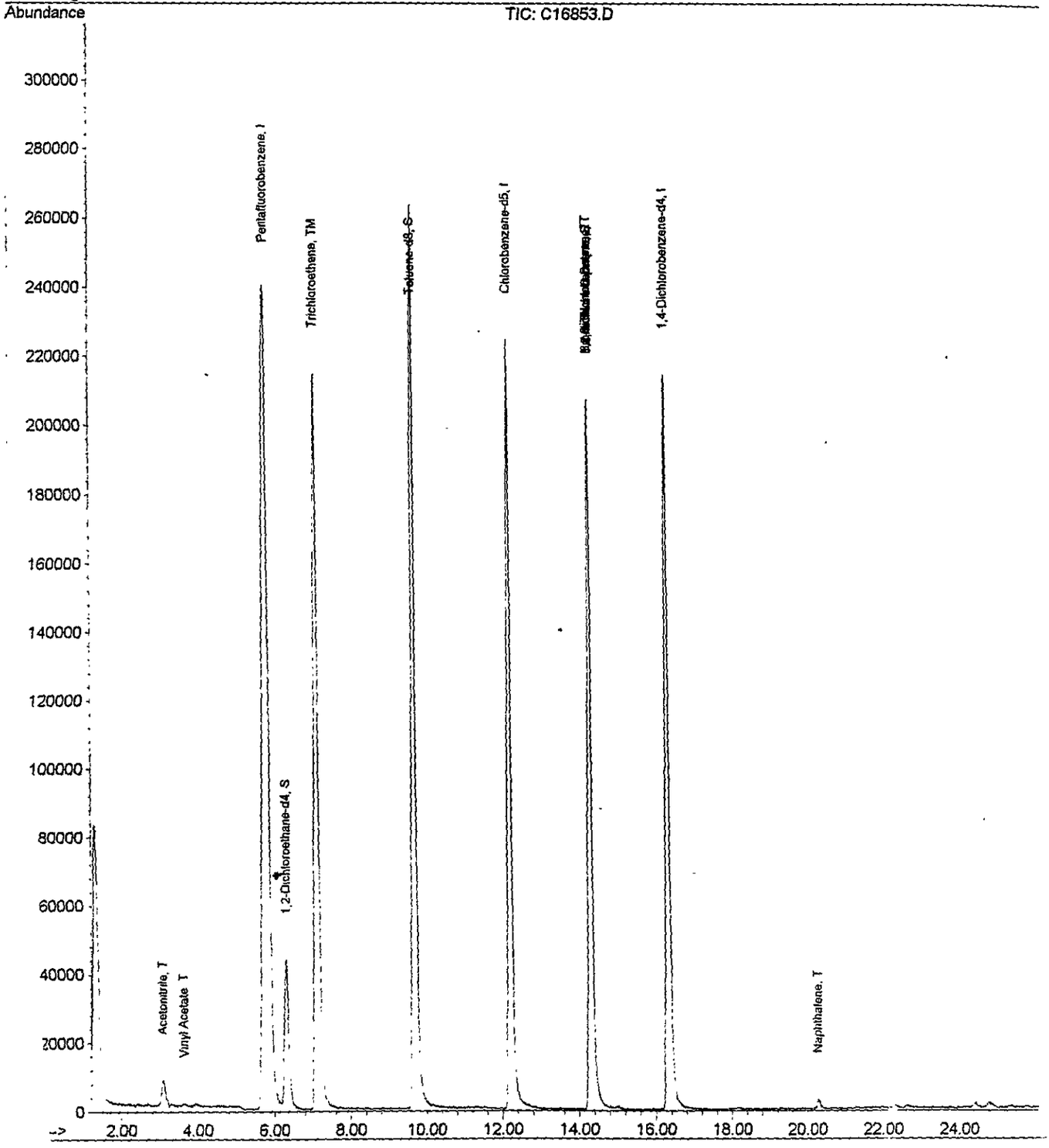
VR
10|3|00

) = qualifier out of range (m) = manual integration
6853.D 10030025.M Tue Oct 03 11:43:24 2000 RPT1

Quantitation Report

Data File : C:\HPCHEM\1\DATA\100300\C16853.D Vial: 2
Acq On : 3 Oct 2000 11:16 Operator: TAG/VR
Sample : WATER BLANK 25ml DF=1 Inst : VOA-C
Misc : QC Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 3 11:43 2000 Quant Results File: 10030025.RES

Method : C:\HPCHEM\1\DATA\100300\10030025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Mon Oct 02 15:08:29 2000
Response via : Initial Calibration



853.D 10030025.M Tue Oct 03 11:43:27 2000 RPT1

VOA GC/MS CALIBRATION CHECKLIST
SW-846-8260B

DATE / INSTRUMENT: 10/02/2000 / C	METHOD: 8260B
MATRIX: water – 25 ml	

Are all standards within expiration dates for both stock and serial standards?	(Y)	N	NA
Are Tuning results compliant with method?	(Y)	N	NA
Are all Initial Calibration RSDs compliant for CCCs and non-CCC compounds?	(Y)	N	NA
If RSDs are non-compliant, was initial calibration curve constructed using one of the alternative methods from method 8000B? (List analytes below)	(Y)	N	NA

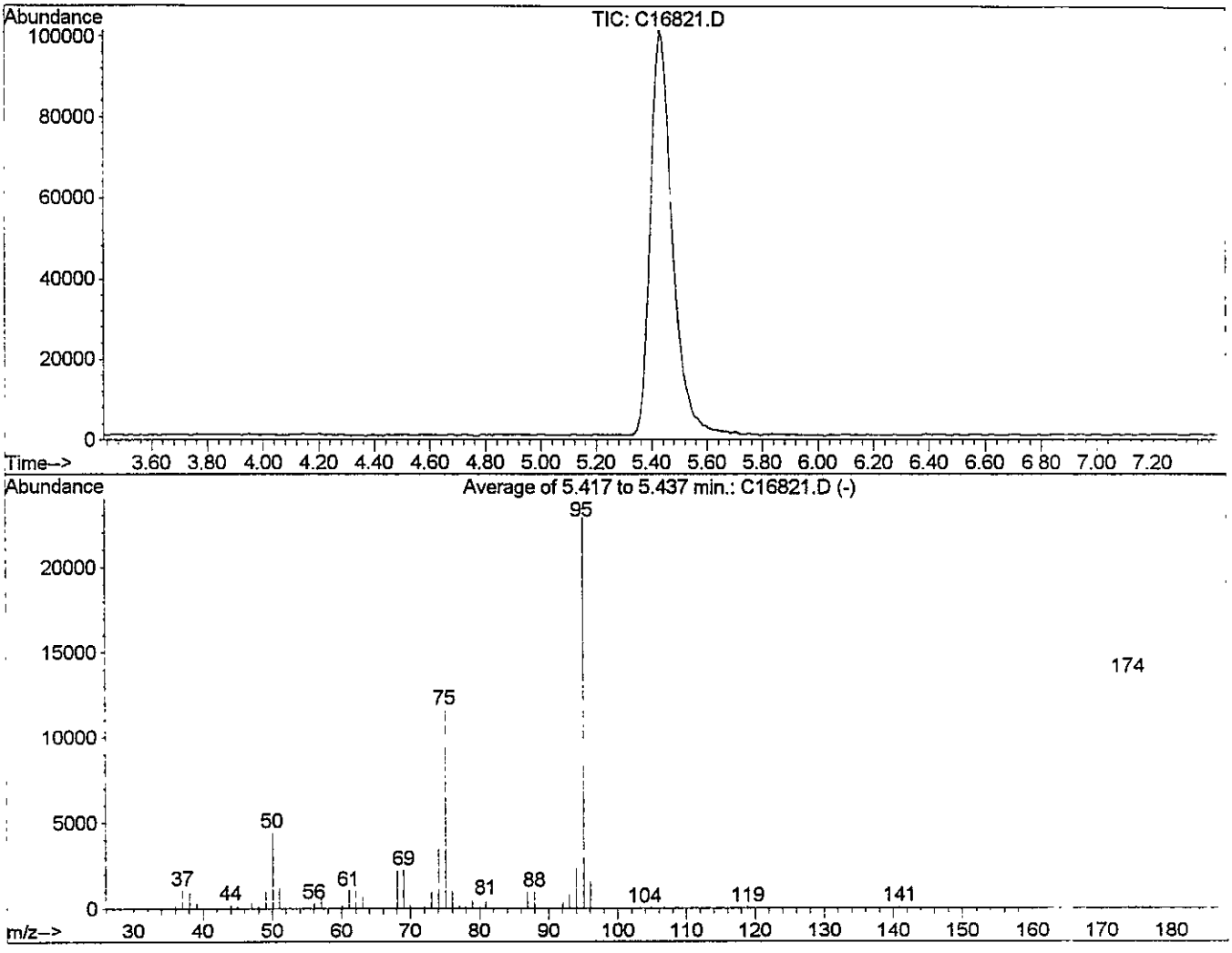
Is the runlog completely filled out (including review signature/date)?	Y	N	NA
Are all mistakes single lined, initialled, and dated?	Y	N	NA

Analyst: VR	Reviewer: Thomas A. Gatz
Date: 10/02/00 Time: 16:00	Date: 10/9/2000 Time: 8:50

BFB

Data File : C:\HPCHEM\1\DATA\100200\C16821.D
Acq On : 2 Oct 2000 8:24
Sample : BFB 50ng V00048
Misc : QC
MS Integration Params: rteint.p
Method : C:\HPCHEM\1\METHODS\BFB01.M (RTE Integrator)
Title :

Vial: 1
Operator: TAG/VR
Inst : VOA-C
Multiplr: 1.00



AutoFind: Scans 426, 427, 428; Background Corrected with Scan 415

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	19.5	4450	PASS
75	95	30	60	50.9	11627	PASS
95	95	100	100	100.0	22853	PASS
96	95	5	9	7.0	1593	PASS
173	174	0.00	2	0.3	34	PASS
174	95	50	100	59.1	13502	PASS
175	174	5	9	6.7	911	PASS
176	174	95	101	99.0	13364	PASS
177	176	5	9	6.8	903	PASS

C16821.D BFB01.M Mon Oct 02 08:37:00 2000 RPT1

Dichlorodifluoromet	0.47	0.523	0.529	0.525	0.478	0.488	0.502	5.23
Chloromethane	0.319	0.271	0.27	0.265	0.246	0.253	0.271	9.5
Vinyl Chloride	0.344	0.388	0.398	0.385	0.354	0.361	0.372	5.76
Bromomethane	0.473	0.363	0.321	0.299	0.267	0.254	0.329	24.39
Chloroethane	0.163	0.225	0.222	0.207	0.194	0.178	0.198	12.3
Trichlorofluorometh	0.676	0.898	0.893	0.876	0.812	0.827	0 83	10.04
Acrolein	0.002	0.006	0.006	0.006	0.005	0.006	0.005	28.88
Acrylonitrile	0.018	0.017	0.018	0.019	0.015	0.016	0.017	8.14
1,1-Dichloroethene	0.359	0.4	0.407	0.402	0.377	0.378	0.387	4.84
Acetone		0.005	0.005	0.005	0.004	0.005	0.005	9.73
Iodomethane	0.698	0.519	0.674	0.689	0.665	0.67	0.652	10.19
Allylchloride	0.261	0.311	0.328	0.328	0.311	0.325	0.311	8.28
Carbon Disulfide	0.678	0.949	1.023	1.005	0.961	0.972	0.931	13.65
Acetonitrile	0.013	0.01	0.057	0.056	0.051	0.053	0.04	55.31
Methylene Chloride	0.211	0.193	0.188	0.189	0.165	0.176	0.187	8.41
trans-1,2-Dichloroe	0.37	0.403	0.414	0.408	0.39	0.388	0.395	4.08
MethylTertButylEthe	0.306	0.339	0.357	0.373	0.304	0.348	0.338	8.29
1,1-Dichloroethane	0.643	0.711	0.733	0.723	0.67	0.688	0.695	4.94
Vinyl Acetate	0.126	0.192	0.197	0.208	0.192	0.217	0.189	17.12
2,2-Dichloropropane	0.443	0.619	0.658	0.658	0.67	0.671	0.62	14.35
cis-1,2-Dichloroeth	0.351	0.376	0.388	0.385	0.358	0.366	0.371	4.05
2-Butanone		0.007	0.009	0.01	0.009	0.01	0.009	13.2
Propionitrile	0.004	0.005	0.006	0.006	0.005	0.006	0.005	16.77
Methacrylonitrile	0.031	0.038	0.039	0.041	0.034	0.038	0 037	9.39
Bromochloromethane	0.117	0.134	0.139	0.14	0.123	0.133	0.131	6.91
Chloroform	0.644	0.74	0.757	0.765	0.707	0.728	0.723	6.12
1,1,1-Trichloroetha	0.623	0.718	0.739	0.749	0.727	0.731	0.715	6.47
Carbon Tetrachlorid	0.551	0.638	0.681	0.682	0.651	0.672	0.646	7.71
1,4-Dioxane	0	0.001	0.001	0.001	0.001	0.001	0.001	37.72
1,1-Dichloropropene	0.196	0.228	0.228	0.223	0.205	0.211	0.215	6.14
1,2-Dichloroethane-	0.283	0.251	0.257	0.255	0.218	0.25	0.252	8.29
Benzene	1.098	1.168	1.19	1.177	1.049	1.114	1.133	4.84
Isobutyl alcohol	0.001	0.002	0.002	0.002	0.002	0.002	0.002	17.24
1,2-Dichloroethane	0.241	0.271	0.287	0.292	0.239	0.276	0.268	8.43
Trichloroethene	0.542	0.562	0.58	0.575	0.536	0.553	0.558	3.12
1,2-Dichloropropane	0.352	0.383	0.397	0.406	0.353	0.388	0.38	5.93
Dibromomethane	0.133	0.163	0.17	0.176	0.148	0.169	0.16	10.12
Methylmethacrylate	0.056	0.069	0.076	0.083	0.065	0.076	0.071	13.56
Bromodichloromethan	0.369	0.524	0.562	0.592	0.531	0.579	0.526	15.51
2-Nitropropane	0.011	0.013	0.013	0.016	0.014	0.016	0.014	14.81
2-Chloroethyl-vinyl		0.026	0.042	0.055	0.047	0.054	0.045	26.13
cis-1,3-Dichloropro	0.308	0.394	0.428	0.454	0.408	0.452	0.407	13.33
4-Methyl-2-Pentanon	0.018	0.02	0.022	0.016	0.011	0.024	0.018	25.08
Toluene-d8	1.75	1.537	1.539	1.461	1.508	1.442	1 54	7.17
Toluene	0.883	0.954	0.943	0.931	0.956	0.885	0.925	3.56
trans-1,3-Dichlorop	0.217	0.295	0.321	0.339	0.328	0.343	0.307	15.38
Ethylmethacrylate	0.166	0.202	0.209	0.224	0.208	0.219	0.205	10
1,1,2-Trichloroetha	0.17	0.212	0.211	0.213	0.189	0.204	0.2	8.56
Tetrachloroethene	0.571	0.52	0.514	0.511	0.524	0.479	0.52	5.72
1,3-Dichloropropane	0.326	0.383	0.383	0.385	0.357	0.366	0.367	6.29
2-Hexanone	0.042	0.05	0.055	0.057	0.048	0.054	0.051	10.53

Dibromochloromethan	0.202	0.335	0.351	0.371	0.358	0.369	0.331	19.54
1,2-Dibromoethane	0.195	0.251	0.255	0.264	0.242	0.257	0.244	10.32
Chlorobenzene	0.952	1.042	1.03	1.045	1.023	0.987	1.013	3.6
1,1,1,2-Tetrachloro	0.359	0.419	0.431	0.444	0.432	0.427	0.419	7.26
Ethylbenzene	1.751	1.941	1.924	1.921	1.919	1.808	1.877	4.17
total-Xylene	0.598	0.69	0.687	0.69	0.684	0.647	0.666	5.6
Styrene	0.82	0.967	0.978	0.998	0.964	0.938	0.944	6.76
Bromoform	0.121	0.261	0.308	0.337	0.337	0.353	0.286	30.48
Isopropylbenzene	3.827	4.482	4.565	4.453	4.758	4.376	4.41	7.12
1,4-dichloro-2-Bute	1.645	0.849	0.871	0.837	0.874	0.868	0.991	32.37
Bromofluorobenzene		1.543	1.566	1.495	1.53	1.521	1.531	1.7
Bromobenzene	0.604	0.768	0.787	0.785	0.792	0.776	0.752	9.69
1,1,2,2-Tetrachloro	0.307	0.5	0.521	0.537	0.491	0.511	0.478	17.85
1,2,3-Trichloroprop	0.436	0.369	0.579	0.509	0.488	0.507	0.481	14.92
n-Propylbenzene	4.38	5.266	5.566	5.238	5.63	5.181	5.21	8.57
2-Chlorotoluene	2.448	3.237	2.825	2.917	2.879	2.74	2.841	9.02
4-Chlorotoluene	3.02	3.652	3.774	3.689	3.792	3.566	3.582	8.03
1,3,5-Trimethylbenz	2.78	3.422	3.457	3.387	3.543	3.318	3.318	8.26
Pentachloroethane	0.26	0.501	0.546	0.561	0.568	0.567	0.5	24.07
tert-Butylbenzene	3.303	4.098	4.252	4.14	4.406	4.047	4.041	9.49
1,2,4-Trimethylbenz	2.799	3.311	3.384	3.331	3.406	3.205	3.239	7
sec-Butylbenzene	4.289	5.371	5.479	5.358	5.719	5.246	5.244	9.43
1,3-Dichlorobenzene	1.324	1.566	1.53	1.549	1.598	1.527	1.516	6.43
Isopropyltoluene	3.403	3.992	4.127	4.078	4.349	3.951	3.983	7.95
1,4-Dichlorobenzene	1.483	1.733	1.783	1.712	1.705	1.648	1.677	6.23
1,2-Dichlorobenzene	1.035	1.248	1.256	1.239	1.218	1.207	1.2	6.92
n-Butylbenzene	3.659	4.432	4.589	4.481	4.691	4.318	4.362	8.42
1,2-Dibromo-3-chlor	0.055	0.073	0.081	0.092	0.082	0.086	0.078	16.28
1,2,4-trichlorobenz	0.711	0.9	0.933	0.961	0.939	0.951	0.899	10.51
Hexachlorobutadiene	0.939	1.124	1.129	1.13	1.156	1.056	1.089	7.4
Naphthalene	0.544	0.752	0.82	0.876	0.837	0.89	0.786	16.3
1,2,3-Trichlorobenz	0.509	0.653	0.684	0.703	0.669	0.682	0.65	10.96

AVERAGE REPONSE FACTOR: 11.61639

Response Factor Report VOA-C

Method : C:\HPCHEM\1\DATA\100200\10020025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Mon Oct 02 14:27:25 2000
Response via : Initial Calibration

Calibration Files
1 =C16822.D 4 =C16823.D 10 =C16824.D
20 =C16825.D 30 =C16826.D 40 =C16827.D

		Compound	1	4	10	20	30	40	Avg	%RSD
1)	I	Pentafluorobenzene	ISTD							
2)	T	Dichlorodifluoromet	0.470	0.523	0.529	0.525	0.478	0.488	0.502	5.23
3)	TP	Chloromethane	0.319	0.271	0.270	0.265	0.246	0.253	0.271	9.50
4)	TC	Vinyl Chloride	0.344	0.388	0.398	0.385	0.354	0.361	0.372	5.76
5)	T	Bromomethane	0.473	0.363	0.321	0.299	0.267	0.254	0.329	24.39
6)	T	Chloroethane	0.163	0.225	0.222	0.207	0.194	0.178	0.198	12.30
7)	T	Trichlorofluorometh	0.676	0.898	0.893	0.876	0.812	0.827	0.830	10.04
8)	T	Acrolein	0.002	0.006	0.006	0.006	0.005	0.006	0.005	28.88
9)	T	Acrylonitrile	0.018	0.017	0.018	0.019	0.015	0.016	0.017	8.14
10)	TMC	1,1-Dichloroethene	0.359	0.400	0.407	0.402	0.377	0.378	0.387	4.84
11)	T	Acetone		0.005	0.005	0.005	0.004	0.005	0.005	9.73
12)	T	Iodomethane	0.698	0.519	0.674	0.689	0.665	0.670	0.652	10.19
13)	T	Allylchloride	0.261	0.311	0.328	0.328	0.311	0.325	0.311	8.28
14)	T	Carbon Disulfide	0.678	0.949	1.023	1.005	0.961	0.972	0.931	13.65
15)	T	Acetonitrile	0.013	0.010	0.057	0.056	0.051	0.053	0.040	55.31
16)	T	Methylene Chloride	0.211	0.193	0.188	0.189	0.165	0.176	0.187	8.41
17)	T	trans-1,2-Dichloroe	0.370	0.403	0.414	0.408	0.390	0.388	0.395	4.08
18)	T	MethylTertButylEthe	0.306	0.339	0.357	0.373	0.304	0.348	0.338	8.29
19)	TP	1,1-Dichloroethane	0.643	0.711	0.733	0.723	0.670	0.688	0.695	4.94
20)	T	Vinyl Acetate	0.126	0.192	0.197	0.208	0.192	0.217	0.189	17.12
21)	T	2,2-Dichloropropane	0.443	0.619	0.658	0.658	0.670	0.671	0.620	14.35
22)	T	cis-1,2-Dichloroeth	0.351	0.376	0.388	0.385	0.358	0.366	0.371	4.05
23)	T	2-Butanone		0.007	0.009	0.010	0.009	0.010	0.009	13.20
24)	T	Propionitrile	0.004	0.005	0.006	0.006	0.005	0.006	0.005	16.77
25)	T	Methacrylonitrile	0.031	0.038	0.039	0.041	0.034	0.038	0.037	9.39
26)	T	Bromochloromethane	0.117	0.134	0.139	0.140	0.123	0.133	0.131	6.91
27)	TC	Chloroform	0.644	0.740	0.757	0.765	0.707	0.728	0.723	6.12
28)	T	1,1,1-Trichloroetha	0.623	0.718	0.739	0.749	0.727	0.731	0.715	6.47
29)	T	Carbon Tetrachlorid	0.551	0.638	0.681	0.682	0.651	0.672	0.646	7.71
30)	T	1,4-Dioxane	0.000	0.001	0.001	0.001	0.001	0.001	0.001	37.72
31)	T	1,1-Dichloropropene	0.196	0.228	0.228	0.223	0.205	0.211	0.215	6.14
32)	S	1,2-Dichloroethane-	0.283	0.251	0.257	0.255	0.218	0.250	0.252	8.29
33)	TM	Benzene	1.098	1.168	1.190	1.177	1.049	1.114	1.133	4.84
34)	T	Isobutyl alcohol	0.001	0.002	0.002	0.002	0.002	0.002	0.002	17.24
35)	T	1,2-Dichloroethane	0.241	0.271	0.287	0.292	0.239	0.276	0.268	8.43
36)	TM	Trichloroethene	0.542	0.562	0.580	0.575	0.536	0.553	0.558	3.12
37)	TC	1,2-Dichloropropane	0.352	0.383	0.397	0.406	0.353	0.388	0.380	5.93
38)	T	Dibromomethane	0.133	0.163	0.170	0.176	0.148	0.169	0.160	10.12
39)	T	Methylmethacrylate	0.056	0.069	0.076	0.083	0.065	0.076	0.071	13.56
40)	T	Bromodichloromethan	0.369	0.524	0.562	0.592	0.531	0.579	0.526	15.51
41)	T	2-Nitropropane	0.011	0.013	0.013	0.016	0.014	0.016	0.014	14.81
42)	T	2-Chloroethyl-vinyl		0.026	0.042	0.055	0.047	0.054	0.045	26.13
43)	T	cis-1,3-Dichloropro	0.308	0.394	0.428	0.454	0.408	0.452	0.407	13.33
44)	T	4-Methyl-2-Pentanon	0.018	0.020	0.022	0.016	0.011	0.024	0.018	25.08

(#) = Out of Range

Response Factor Report VOA-C

Method : C:\HPCHEM\1\DATA\100200\10020025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Mon Oct 02 14:27:25 2000
Response via : Initial Calibration

Calibration Files
1 =C16822.D 4 =C16823.D 10 =C16824.D
20 =C16825.D 30 =C16826.D 40 =C16827.D

		Compound	1	4	10	20	30	40	Avg	%RSD
45)	I	Chlorobenzene-d5	----------ISTD----------							
46)	S	Toluene-d8	1.750	1.537	1.539	1.461	1.508	1.442	1.540	7.17
47)	TMC	Toluene	0.883	0.954	0.943	0.931	0.956	0.885	0.925	3.56
48)	T	trans-1,3-Dichlorop	0.217	0.295	0.321	0.339	0.328	0.343	0.307	15.38
49)	T	Ethylmethacrylate	0.166	0.202	0.209	0.224	0.208	0.219	0.205	10.00
50)	T	1,1,2-Trichloroetha	0.170	0.212	0.211	0.213	0.189	0.204	0.200	8.56
51)	T	Tetrachloroethene	0.571	0.520	0.514	0.511	0.524	0.479	0.520	5.72
52)	T	1,3-Dichloropropane	0.326	0.383	0.383	0.385	0.357	0.366	0.367	6.29
53)	T	2-Hexanone	0.042	0.050	0.055	0.057	0.048	0.054	0.051	10.53
54)	T	Dibromochloromethan	0.202	0.335	0.351	0.371	0.358	0.369	0.331	19.54
55)	T	1,2-Dibromoethane	0.195	0.251	0.255	0.264	0.242	0.257	0.244	10.32
56)	TMP	Chlorobenzene	0.952	1.042	1.030	1.045	1.023	0.987	1.013	3.60
57)	T	1,1,1,2-Tetrachloro	0.359	0.419	0.431	0.444	0.432	0.427	0.419	7.26
58)	TC	Ethylbenzene	1.751	1.941	1.924	1.921	1.919	1.808	1.877	4.17
59)	TG	total-Xylene	0.598	0.690	0.687	0.690	0.684	0.647	0.666	5.60
60)	T	Styrene	0.820	0.967	0.978	0.998	0.964	0.938	0.944	6.76
61)	I	1,4-Dichlorobenzene-d	----------ISTD----------							
62)	TP	Bromoform	0.121	0.261	0.308	0.337	0.337	0.353	0.286	30.48
63)	T	Isopropylbenzene	3.827	4.482	4.565	4.453	4.758	4.376	4.410	7.12
64)	T	1,4-dichloro-2-Bute	1.645	0.849	0.871	0.837	0.874	0.868	0.991	32.37
65)	S	Bromofluorobenzene		1.543	1.566	1.495	1.530	1.521	1.531	1.70
66)	T	Bromobenzene	0.604	0.768	0.787	0.785	0.792	0.776	0.752	9.69
67)	TP	1,1,2,2-Tetrachloro	0.307	0.500	0.521	0.537	0.491	0.511	0.478	17.85
68)	T	1,2,3-Trichloroprop	0.436	0.369	0.579	0.509	0.488	0.507	0.481	14.92
69)	T	n-Propylbenzene	4.380	5.266	5.566	5.238	5.630	5.181	5.210	8.57
70)	T	2-Chlorotoluene	2.448	3.237	2.825	2.917	2.879	2.740	2.841	9.02
71)	T	4-Chlorotoluene	3.020	3.652	3.774	3.689	3.792	3.566	3.582	8.03
72)	T	1,3,5-Trimethylbenz	2.780	3.422	3.457	3.387	3.543	3.318	3.318	8.26
73)	T	Pentachloroethane	0.260	0.501	0.546	0.561	0.568	0.567	0.500	24.07
74)	T	tert-Butylbenzene	3.303	4.098	4.252	4.140	4.406	4.047	4.041	9.49
75)	T	1,2,4-Trimethylbenz	2.799	3.311	3.384	3.331	3.406	3.205	3.239	7.00
76)	T	sec-Butylbenzene	4.289	5.371	5.479	5.358	5.719	5.246	5.244	9.43
77)	T	1,3-Dichlorobenzene	1.324	1.566	1.530	1.549	1.598	1.527	1.516	6.43
78)	T	Isopropyltoluene	3.403	3.992	4.127	4.078	4.349	3.951	3.983	7.95
79)	T	1,4-Dichlorobenzene	1.483	1.733	1.783	1.712	1.705	1.648	1.677	6.23
80)	T	1,2-Dichlorobenzene	1.035	1.248	1.256	1.239	1.218	1.207	1.200	6.92
81)	T	n-Butylbenzene	3.659	4.432	4.589	4.481	4.691	4.318	4.362	8.42
82)	T	1,2-Dibromo-3-chlor	0.055	0.073	0.081	0.092	0.082	0.086	0.078	16.28
83)	T	1,2,4-trichlorobenz	0.711	0.900	0.933	0.961	0.939	0.951	0.899	10.51
84)	T	Hexachlorobutadiene	0.939	1.124	1.129	1.130	1.156	1.056	1.089	7.40
85)	T	Naphthalene	0.544	0.752	0.820	0.876	0.837	0.890	0.786	16.30
86)	T	1,2,3-Trichlorobenz	0.509	0.653	0.684	0.703	0.669	0.682	0.650	10.96

(#) = Out of Range

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\100200\C16822.D Vial: 1
Acq On : 2 Oct 2000 8:43 Operator: TAG/VR
Sample : ICAL 1 ppb (V00050,V00057) Inst : VOA-C
Misc : QC Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 2 14:20 2000 Quant Results File: 10020025.RES

Quant Method : C:\HPCHEM\1\DATA\100200\10020025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Mon Oct 02 09:31:07 2000
Response via : Initial Calibration
DataAcq Meth : 10020025

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Pentafluorobenzene	5.82	168	594702	10.00	ug\L		-0.04
45) Chlorobenzene-d5	12.20	117	499891	10.00	ug\L		-0.03
61) 1,4-Dichlorobenzene-d4	16.32	152	274608m	10.00	ug\L		-0.52
System Monitoring Compounds							
32) 1,2-Dichloroethane-d4	6.32	65	16856	1.24	ug\L		-0.03
Spiked Amount 10.000	Range 80 - 120		Recovery = 12.40%#				
46) Toluene-d8	9.69	98	87491	1.11	ug\L		-0.02
Spiked Amount 10.000	Range 87 - 104		Recovery = 11.10%#				
65) Bromofluorobenzene	14.30	95	91234m	2.21	ug\L		-0.02
Spiked Amount 10.000	Range 84 - 110		Recovery = 22.10%#				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.42	85	27962	0.75	ug\L		100
3) Chloromethane	1.61	50	18966	0.96	ug\L		92
4) Vinyl Chloride	1.62	62	20452	0.91	ug\L		99
5) Bromomethane	1.87	94	28103m	1.56	ug\L		
6) Chloroethane	1.95	64	9719m	0.65	ug\L		
7) Trichlorofluoromethane	2.12	101	40218	0.77	ug\L	#	100
8) Acrolein	2.50	56	285m	1.82	ug\L		
9) Acrylonitrile	3.11	53	2084m	2.02	ug\L		
10) 1,1-Dichloroethene	2.57	96	21345	0.84	ug\L		96
11) Acetone	2.71	58	547m	1.86	ug\L		
12) Iodomethane	2.80	142	41499m	1.73	ug\L		
13) Allylchloride	2.93	39	15508	0.76	ug\L	#	39
14) Carbon Disulfide	2.77	76	40321	0.89	ug\L	#	93
15) Acetonitrile	3.34	41	7780m	2.29	ug\L		
16) Methylene Chloride	3.09	86	12540m	0.84	ug\L		
17) trans-1,2-Dichloroethene	3.35	96	21990	0.86	ug\L		99
18) MethylTertButylEther	3.37	73	18214	0.91	ug\L		93
19) 1,1-Dichloroethane	3.89	63	38229	0.85	ug\L		99
20) Vinyl Acetate	3.99	43	7475m	0.83	ug\L		
21) 2,2-Dichloropropane	4.74	77	26316	0.67	ug\L	#	55
22) cis-1,2-Dichloroethene	4.82	96	20856	0.89	ug\L	#	12
23) 2-Butanone	5.21	72	0m	2.09	ug\L		
24) Propionitrile	5.13	54	2139m	6.46	ug\L		
25) Methacrylonitrile	5.31	41	18560	8.16	ug\L	#	51
26) Bromochloromethane	5.25	128	6953	0.89	ug\L	#	15
27) Chloroform	5.43	83	38281	0.88	ug\L		99
28) 1,1,1-Trichloroethane	5.65	97	37041	0.84	ug\L	#	37
29) Carbon Tetrachloride	5.93	119	32746	0.85	ug\L	#	3
30) 1,4-Dioxane	8.34	88	204m	12.23	ug\L		

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

Data File : C:\HPCHEM\1\DATA\100200\C16822.D Vial: 1
Acq On : 2 Oct 2000 8:43 Operator: TAG/VR
Sample : ICAL 1 ppb (V00050,V00057) Inst : VOA-C
Misc : QC Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 2 14:20 2000 Quant Results File: 10020025.RES

Quant Method : C:\HPCHEM\1\DATA\100200\10020025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Mon Oct 02 09:31:07 2000
Response via : Initial Calibration
DataAcq Meth : 10020025

Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
33) Benzene	6.32	78	65303	0.94	ug\L		100
34) Isobutyl alcohol	6.59	43	1759m	12.34	ug\L		
35) 1,2-Dichloroethane	6.47	62	14360m	0.93	ug\L		
36) Trichloroethene	7.54	95	32261	1.06	ug\L		97
37) 1,2-Dichloropropane	7.96	63	20957	0.92	ug\L	#	87
38) Dibromomethane	8.19	93	7915m	0.88	ug\L		
39) Methylmethacrylate	8.28	69	3314m	0.78	ug\L		
40) Bromodichloromethane	8.51	83	21915m	0.72	ug\L		
42) 2-Chloroethyl-vinyl ether	8.99	63	0m	3.77	ug\L		
43) cis-1,3-Dichloropropene	9.29	75	18291m	0.78	ug\L		
44) 4-Methyl-2-Pentanone	9.62	85	1059m	1.21	ug\L		
47) Toluene	9.79	92	44160	0.87	ug\L		98
48) trans-1,3-Dichloropropene	10.32	75	10863m	0.75	ug\L		
49) Ethylmethacrylate	10.53	69	8307	0.77	ug\L	#	89
50) 1,1,2-Trichloroethane	10.61	83	8491m	0.85	ug\L		
51) Tetrachloroethene	10.71	164	28541	1.09	ug\L		95
52) 1,3-Dichloropropane	10.89	76	16278m	0.88	ug\L		
53) 2-Hexanone	11.14	43	2123	0.77	ug\L	#	47
54) Dibromochloromethane	11.28	129	10088	0.64	ug\L		97
55) 1,2-Dibromoethane	11.40	107	9724	0.85	ug\L	#	99
56) Chlorobenzene	12.25	112	47574	0.90	ug\L		91
57) 1,1,1,2-Tetrachloroethane	12.44	131	17942	0.88	ug\L	#	61
58) Ethylbenzene	12.45	91	87547	0.85	ug\L		99
59) total-Xylene	12.67	106	89606m	2.47	ug\L		
60) Styrene	13.40	104	41002	0.81	ug\L		99
62) Bromoform	13.74	173	3323m	1.50	ug\L		
63) Isopropylbenzene	14.02	105	105098	0.77	ug\L		
64) 1,4-dichloro-2-Butene	14.29	75	45161m	1.99	ug\L		
66) Bromobenzene	14.51	156	16594	0.74	ug\L		
67) 1,1,2,2-Tetrachloroethane	14.67	83	8429m	0.61	ug\L		
68) 1,2,3-Trichloropropane	14.72	75	11985m	1.15	ug\L		
69) n-Propylbenzene	14.75	91	120268	0.74	ug\L		
70) 2-Chlorotoluene	14.85	91	67227	0.67	ug\L		
71) 4-Chlorotoluene	15.07	91	82919	0.77	ug\L		
72) 1,3,5-Trimethylbenzene	15.08	105	76332	0.72	ug\L		
74) tert-Butylbenzene	15.63	119	90695	0.73	ug\L		
75) 1,2,4-Trimethylbenzene	15.73	105	76864	0.75	ug\L		
76) sec-Butylbenzene	16.02	105	117780	0.72	ug\L		
77) 1,3-Dichlorobenzene	16.19	146	36358	0.79	ug\L		
78) Isopropyltoluene	16.30	119	93454	0.74	ug\L		
79) 1,4-Dichlorobenzene	16.35	146	40735	0.84	ug\L		
80) 1,2-Dichlorobenzene	16.99	146	28426	0.80	ug\L		

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

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\100200\C16822.D Vial: 1
Acq On : 2 Oct 2000 8:43 Operator: TAG/VR
Sample : ICAL 1 ppb (V00050,V00057) Inst : VOA-C
Misc : QC Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 2 14:20 2000 Quant Results File: 10020025.RES

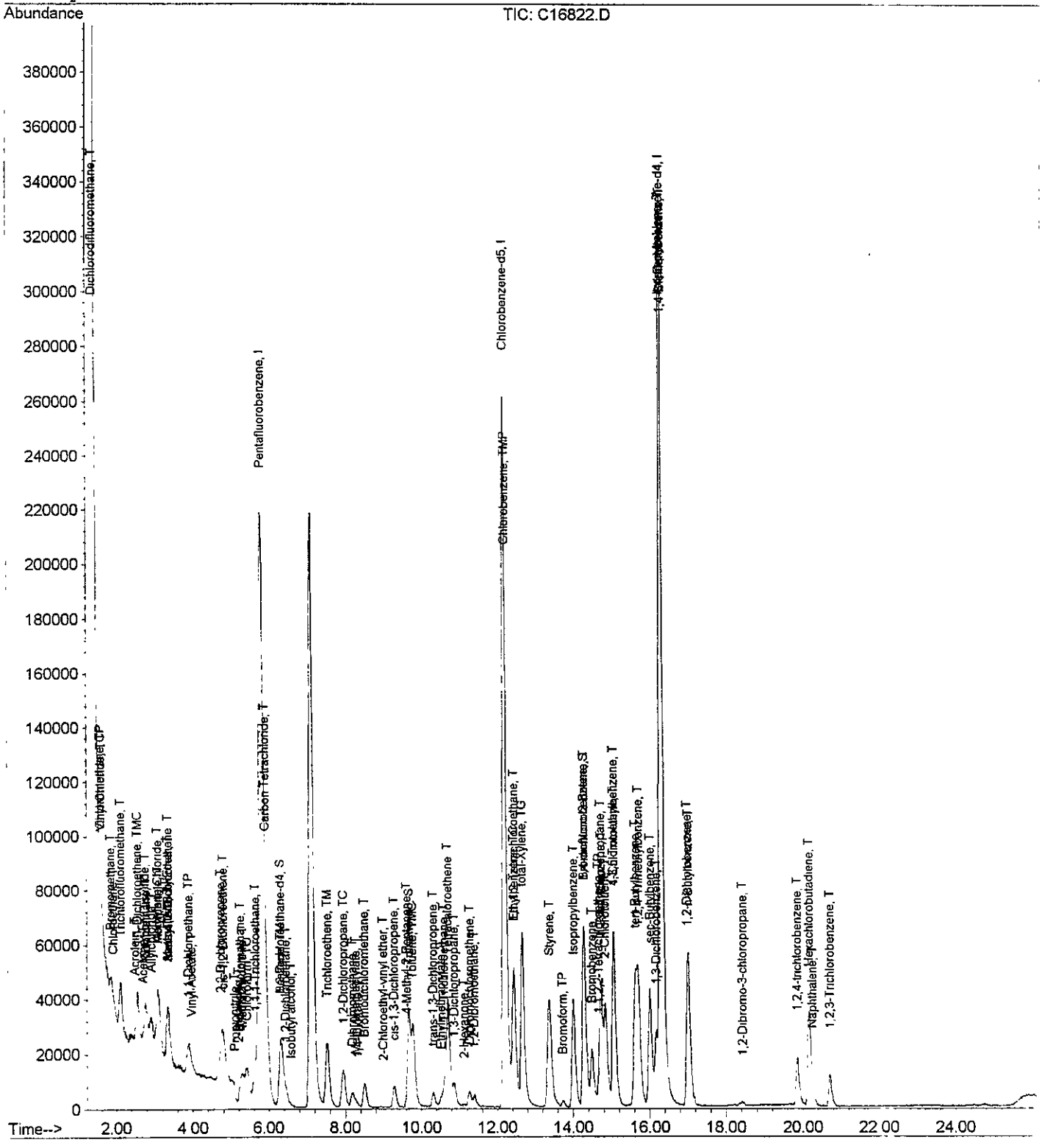
Quant Method : C:\HPCHEM\1\DATA\100200\10020025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Mon Oct 02 09:31:07 2000
Response via : Initial Calibration
DataAcq Meth : 10020025

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
81) n-Butylbenzene	17.03	91	100485	0.73	ug\L	
82) 1,2-Dibromo-3-chloropropan	18.44	75	1519m	0.73	ug\L	
83) 1,2,4-trichlorobenzene	19.87	180	19522	0.68	ug\L	
84) Hexachlorobutadiene	20.19	225	25789	0.79	ug\L	
85) Naphthalene	20.27	128	14945m	0.62	ug\L	
86) 1,2,3-Trichlorobenzene	20.72	180	13970	0.66	ug\L	

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

Data File : C:\HPCHEM\1\DATA\100200\C16822.D Vial: 1
Acq On : 2 Oct 2000 8:43 Operator: TAG/VR
Sample : ICAL 1 ppb (V00050,V00057) Inst : VOA-C
Misc : QC Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 2 14:20 2000 Quant Results File: 10020025.RES

Method : C:\HPCHEM\1\DATA\100200\10020025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Mon Oct 02 15:08:29 2000
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\100200\C16823.D Vial: 2
Acq On : 2 Oct 2000 9:14 Operator: TAG/VR
Sample : ICAL 4 ppb (V00050,V00057) Inst : VOA-C
Misc : QC Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 2 12:57 2000 Quant Results File: 10020025.RES

Quant Method : C:\HPCHEM\1\DATA\100200\10020025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Mon Oct 02 09:36:22 2000
Response via : Initial Calibration
DataAcq Meth : 10020025

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Pentafluorobenzene	5.82	168	512725	10.00	ug\L		-0.03
45) Chlorobenzene-d5	12.20	117	428861	10.00	ug\L		-0.02
61) 1,4-Dichlorobenzene-d4	16.32	152	217203	10.00	ug\L		0.00
System Monitoring Compounds							
32) 1,2-Dichloroethane-d4	6.32	65	51549	4.39	ug\L		-0.03
Spiked Amount 10.000	Range 80 - 120		Recovery = 43.90%#				
46) Toluene-d8	9.69	98	263717	3.91	ug\L		-0.02
Spiked Amount 10.000	Range 87 - 104		Recovery = 39.10%#				
65) Bromofluorobenzene	14.29	95	134033	4.10	ug\L		-0.02
Spiked Amount 10.000	Range 84 - 110		Recovery = 41.00%#				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.43	85	107160	3.32	ug\L		99
3) Chloromethane	1.58	50	55568	3.26	ug\L		97
4) Vinyl Chloride	1.63	62	79583	4.08	ug\L		99
5) Bromomethane	1.90	94	74483	4.78	ug\L		98
6) Chloroethane	1.97	64	46046	3.60	ug\L		97
7) Trichlorofluoromethane	2.13	101	184207	4.08	ug\L	#	100
8) Acrolein	2.53	56	2411	7.78	ug\L	#	62
9) Acrylonitrile	3.42	53	7065m	7.93	ug\L		
10) 1,1-Dichloroethene	2.58	96	81954	3.73	ug\L		97
11) Acetone	2.65	58	935m	3.68	ug\L		
12) Iodomethane	2.77	142	106470	4.33	ug\L		100
13) Allylchloride	2.92	39	63763	3.62	ug\L	#	45
14) Carbon Disulfide	2.78	76	194567	5.01	ug\L		99
15) Acetonitrile	3.35	41	20892m	7.14	ug\L		
16) Methylene Chloride	3.09	86	39602	3.87	ug\L	#	25
17) trans-1,2-Dichloroethene	3.37	96	82681	3.76	ug\L		96
18) MethylTertButylEther	3.35	73	69472	4.02	ug\L		97
19) 1,1-Dichloroethane	3.91	63	145722	3.74	ug\L		99
20) Vinyl Acetate	4.01	43	39355m	5.05	ug\L		
21) 2,2-Dichloropropane	4.76	77	126932	3.75	ug\L		98
22) cis-1,2-Dichloroethene	4.82	96	77059	3.83	ug\L		99
23) 2-Butanone	4.90	72	1460m	4.64	ug\L		
24) Propionitrile	5.08	54	10586m	37.07	ug\L		
25) Methacrylonitrile	5.30	41	77388	39.44	ug\L		98
26) Bromochloromethane	5.27	128	27425	4.06	ug\L		97
27) Chloroform	5.44	83	151765	4.04	ug\L		100
28) 1,1,1-Trichloroethane	5.66	97	147227	3.85	ug\L	#	39
29) Carbon Tetrachloride	5.94	119	130916	3.96	ug\L	#	33
30) 1,4-Dioxane	8.34	88	2350m	65.83	ug\L		

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

Data File : C:\HPCHEM\1\DATA\100200\C16823.D Vial: 2
Acq On : 2 Oct 2000 9:14 Operator: TAG/VR
Sample : ICAL 4 ppb (V00050,V00057) Inst : VOA-C
Misc : QC Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 2 12:57 2000 Quant Results File: 10020025.RES

Quant Method : C:\HPCHEM\1\DATA\100200\10020025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Mon Oct 02 09:36:22 2000
Response via : Initial Calibration
DataAcq Meth : 10020025

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
31)	1,1-Dichloropropene	5.96	77	46735	1.20	ug\L	#	1
33)	Benzene	6.34	78	239473	4.00	ug\L		100
34)	Isobutyl alcohol	6.61	43	8629m	70.19	ug\L		
35)	1,2-Dichloroethane	6.45	62	55536	4.17	ug\L		99
36)	Trichloroethene	7.54	95	115323	4.38	ug\L		97
37)	1,2-Dichloropropane	7.96	63	78614	4.01	ug\L	#	87
38)	Dibromomethane	8.18	93	33491	4.33	ug\L		94
39)	Methylmethacrylate	8.29	69	14148m	3.85	ug\L		
40)	Bromodichloromethane	8.51	83	107396m	4.10	ug\L		
41)	2-Nitropropane	8.98	43	2599m	2.45	ug\L		
42)	2-Chloroethyl-vinyl ether	9.12	63	5361m	25.21	ug\L		
43)	cis-1,3-Dichloropropene	9.29	75	80740	3.97	ug\L		97
44)	4-Methyl-2-Pentanone	9.65	85	4162m	5.52	ug\L		
47)	Toluene	9.80	92	163586	3.74	ug\L		98
48)	trans-1,3-Dichloropropene	10.31	75	50590m	4.08	ug\L		
49)	Ethylmethacrylate	10.53	69	34634	3.75	ug\L	#	95
50)	1,1,2-Trichloroethane	10.62	83	36411m	4.27	ug\L		
51)	Tetrachloroethene	10.72	164	89247	3.96	ug\L		98
52)	1,3-Dichloropropane	10.88	76	65729m	4.16	ug\L		
53)	2-Hexanone	11.14	43	8513	3.58	ug\L	#	85
54)	Dibromochloromethane	11.29	129	57420m	4.22	ug\L		
55)	1,2-Dibromoethane	11.39	107	42982	4.38	ug\L	#	99
56)	Chlorobenzene	12.24	112	178813	3.95	ug\L		97
57)	1,1,1,2-Tetrachloroethane	12.43	131	71949	4.10	ug\L		99
58)	Ethylbenzene	12.46	91	332986	3.78	ug\L		99
59)	total-Xylene	12.68	106	355290m	11.43	ug\L		
60)	Styrene	13.42	104	165876	3.83	ug\L		99
62)	Bromoform	13.74	173	22684m	4.35	ug\L		
63)	Isopropylbenzene	14.03	105	389383	3.61	ug\L		100
64)	1,4-dichloro-2-Butene	14.28	75	73789m	4.12	ug\L		
66)	Bromobenzene	14.51	156	66732	3.77	ug\L		87
67)	1,1,2,2-Tetrachloroethane	14.69	83	43481m	3.97	ug\L		
68)	1,2,3-Trichloropropane	14.71	75	32030	3.90	ug\L	#	100
69)	n-Propylbenzene	14.75	91	457556	3.58	ug\L		99
70)	2-Chlorotoluene	14.85	91	281195m	3.57	ug\L		
71)	4-Chlorotoluene	15.06	91	317260	3.74	ug\L		98
72)	1,3,5-Trimethylbenzene	15.09	105	297278	3.56	ug\L		89
73)	Pentachloroethane	15.67	167	43489m	3.80	ug\L		
74)	tert-Butylbenzene	15.63	119	356082	3.60	ug\L		99
75)	1,2,4-Trimethylbenzene	15.72	105	287660	3.56	ug\L		98
76)	sec-Butylbenzene	16.02	105	466672	3.59	ug\L		99
77)	1,3-Dichlorobenzene	16.19	146	136079	3.74	ug\L		99

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

Data File : C:\HPCHEM\1\DATA\100200\C16823.D Vial: 2
Acq On : 2 Oct 2000 9:14 Operator: TAG/VR
Sample : ICAL 4 ppb (V00050,V00057) Inst : VOA-C
Misc : QC Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 2 12:57 2000 Quant Results File: 10020025.RES

Quant Method : C:\HPCHEM\1\DATA\100200\10020025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Mon Oct 02 09:36:22 2000
Response via : Initial Calibration
DataAcq Meth : 10020025

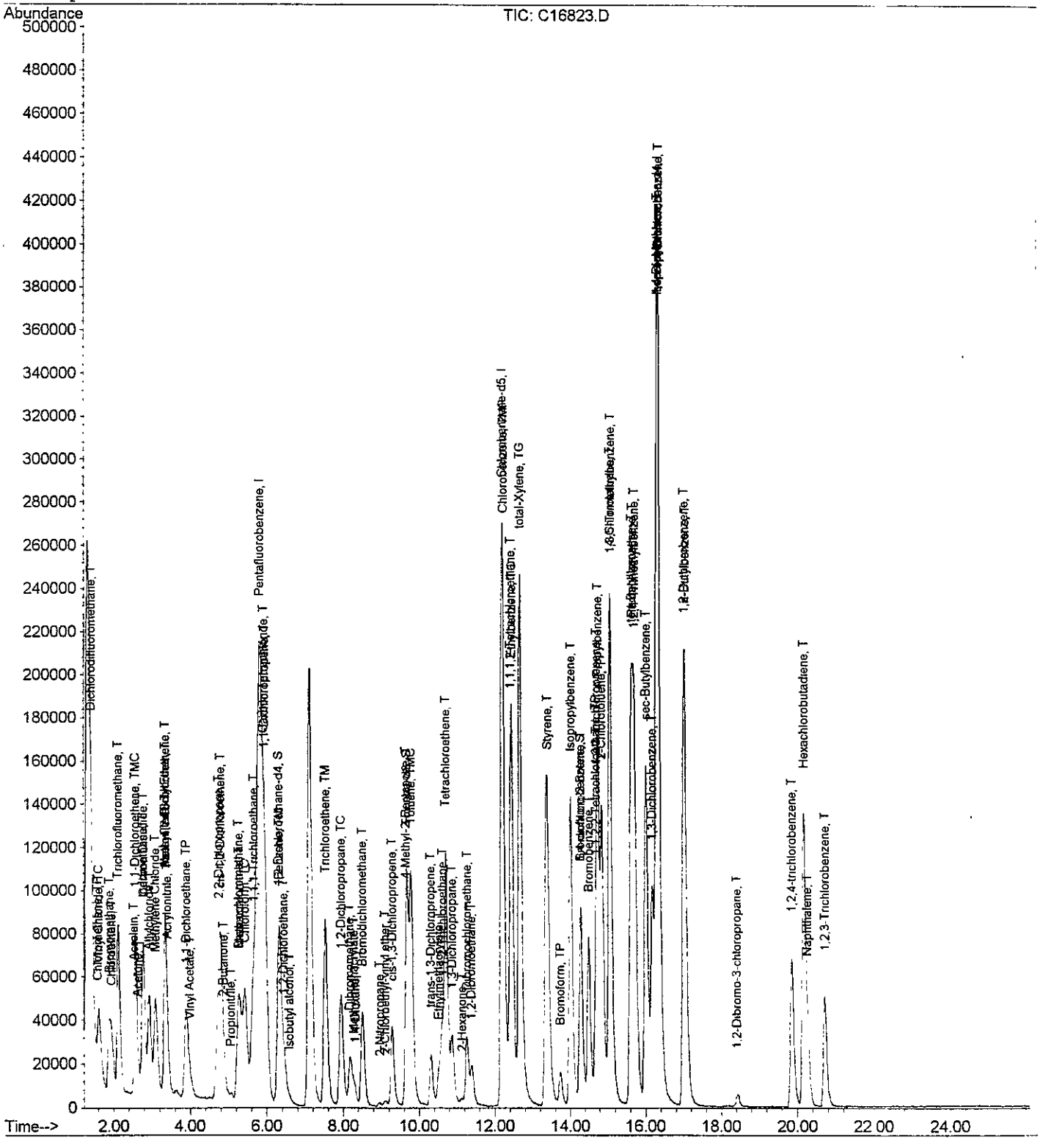
Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
78) Isopropyltoluene	16.31	119	346851	3.48	ug\L	98
79) 1,4-Dichlorobenzene	16.35	146	150546	3.93	ug\L	97
80) 1,2-Dichlorobenzene	17.01	146	108386	3.87	ug\L	98
81) n-Butylbenzene	17.04	91	385018	3.52	ug\L	99
82) 1,2-Dibromo-3-chloropropan	18.43	75	6374m	3.85	ug\L	
83) 1,2,4-trichlorobenzene	19.87	180	78169	3.46	ug\L	100
84) Hexachlorobutadiene	20.18	225	97672	3.78	ug\L	100
85) Naphthalene	20.28	128	65337m	3.42	ug\L	
86) 1,2,3-Trichlorobenzene	20.72	180	56710	3.40	ug\L	98

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

Quantitation Report

Data File : C:\HPCHEM\1\DATA\100200\C16823.D Vial: 2
Acq On : 2 Oct 2000 9:14 Operator: TAG/VR
Sample : ICAL 4 ppb (V00050,V00057) Inst : VOA-C
Misc : QC Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 2 12:57 2000 Quant Results File: 10020025.RES

Method : C:\HPCHEM\1\DATA\100200\10020025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Mon Oct 02 15:08:29 2000
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\100200\C16824.D Vial: 3
Acq On : 2 Oct 2000 9:44 Operator: TAG/VR
Sample : ICAL 10 ppb (V00050,V00057) Inst : VOA-C
Misc : QC Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 2 13:01 2000 Quant Results File: 10020025.RES

Quant Method : C:\HPCHEM\1\DATA\100200\10020025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Mon Oct 02 09:36:22 2000
Response via : Initial Calibration
DataAcq Meth : 10020025

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Pentafluorobenzene	5.84	168	503256	10.00	ug\L		-0.02
45) Chlorobenzene-d5	12.21	117	430874	10.00	ug\L		-0.02
61) 1,4-Dichlorobenzene-d4	16.32	152	213993	10.00	ug\L		0.00
System Monitoring Compounds							
32) 1,2-Dichloroethane-d4	6.33	65	129300	11.22	ug\L		-0.02
Spiked Amount 10.000	Range 80 - 120		Recovery = 112.20%				
46) Toluene-d8	9.68	98	662977	9.79	ug\L		-0.03
Spiked Amount 10.000	Range 87 - 104		Recovery = 97.90%				
65) Bromofluorobenzene	14.30	95	335012	10.41	ug\L		-0.02
Spiked Amount 10.000	Range 84 - 110		Recovery = 104.10%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.45	85	266142	8.39	ug\L		99
3) Chloromethane	1.60	50	136049	8.13	ug\L		99
4) Vinyl Chloride	1.65	62	200096	10.46	ug\L		100
5) Bromomethane	1.90	94	161455	10.56	ug\L		98
6) Chloroethane	1.98	64	111796	8.90	ug\L		98
7) Trichlorofluoromethane	2.14	101	449333	10.15	ug\L	#	100
8) Acrolein	2.51	56	6213	18.59	ug\L	#	66
9) Acrylonitrile	3.43	53	17923	20.50	ug\L		96
10) 1,1-Dichloroethene	2.57	96	204834	9.51	ug\L		98
11) Acetone	2.69	58	2602	10.43	ug\L		90
12) Iodomethane	2.76	142	339208	13.11	ug\L		99
13) Allylchloride	2.94	39	165155	9.56	ug\L	#	46
14) Carbon Disulfide	2.79	76	514615	13.49	ug\L		100
15) Acetonitrile	2.94	41	286878	99.83	ug\L		97
16) Methylene Chloride	3.09	86	94852	9.87	ug\L	#	28
17) trans-1,2-Dichloroethene	3.36	96	208214	9.65	ug\L		97
18) MethylTertButylEther	3.36	73	179858	10.59	ug\L		100
19) 1,1-Dichloroethane	3.90	63	369019	9.66	ug\L		100
20) Vinyl Acetate	4.00	43	98965	12.95	ug\L		96
21) 2,2-Dichloropropane	4.76	77	330895	9.97	ug\L		99
22) cis-1,2-Dichloroethene	4.81	96	195404	9.89	ug\L		99
23) 2-Butanone	4.91	72	4688m	10.42	ug\L		
24) Propionitrile	5.09	54	28849	102.91	ug\L	#	92
25) Methacrylonitrile	5.30	41	194214	100.84	ug\L		98
26) Bromochloromethane	5.26	128	69754	10.53	ug\L		98
27) Chloroform	5.44	83	380925	10.33	ug\L		99
28) 1,1,1-Trichloroethane	5.66	97	372048	9.91	ug\L	#	76
29) Carbon Tetrachloride	5.94	119	342817	10.57	ug\L	#	75
30) 1,4-Dioxane	8.33	88	5764	152.67	ug\L	#	44

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

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\100200\C16824.D Vial: 3
Acq On : 2 Oct 2000 9:44 Operator: TAG/VR
Sample : ICAL 10 ppb (V00050,V00057) Inst : VOA-C
Misc : QC Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 2 13:01 2000 Quant Results File: 10020025.RES

Quant Method : C:\HPCHEM\1\DATA\100200\10020025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Mon Oct 02 09:36:22 2000
Response via : Initial Calibration
DataAcq Meth : 10020025

Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
31) 1,1-Dichloropropene	5.96	77	114630	3.00	ug\L	#	1
33) Benzene	6.35	78	598795	10.19	ug\L		100
34) Isobutyl alcohol	6.59	43	22469	186.22	ug\L		97
35) 1,2-Dichloroethane	6.46	62	144247	11.03	ug\L		100
36) Trichloroethene	7.54	95	291760	11.29	ug\L		98
37) 1,2-Dichloropropane	7.97	63	199624	10.38	ug\L		99
38) Dibromomethane	8.19	93	85471	11.25	ug\L		96
39) Methylmethacrylate	8.27	69	38131	10.58	ug\L		87
40) Bromodichloromethane	8.52	83	282703	11.00	ug\L		99
41) 2-Nitropropane	8.97	43	6730	6.45	ug\L	#	100
42) 2-Chloroethyl-vinyl ether	9.10	63	21041m	89.49	ug\L		
43) cis-1,3-Dichloropropene	9.30	75	215579	10.80	ug\L		97
44) 4-Methyl-2-Pentanone	9.62	85	11125m	15.04	ug\L		
47) Toluene	9.80	92	406219	9.25	ug\L		100
48) trans-1,3-Dichloropropene	10.32	75	138462m	11.12	ug\L		
49) Ethylmethacrylate	10.52	69	89841	9.69	ug\L	#	93
50) 1,1,2-Trichloroethane	10.62	83	90808m	10.59	ug\L		
51) Tetrachloroethene	10.73	164	221543	9.78	ug\L		98
52) 1,3-Dichloropropane	10.89	76	164947	10.38	ug\L		99
53) 2-Hexanone	11.12	43	23818	9.96	ug\L		95
54) Dibromochloromethane	11.28	129	151043	11.05	ug\L		99
55) 1,2-Dibromoethane	11.40	107	109747	11.12	ug\L		99
56) Chlorobenzene	12.25	112	443603	9.75	ug\L		99
57) 1,1,1,2-Tetrachloroethane	12.44	131	185816	10.54	ug\L		98
58) Ethylbenzene	12.46	91	828946	9.35	ug\L		99
59) total-Xylene	12.68	106	887578m	28.42	ug\L		
60) Styrene	13.41	104	421476	9.68	ug\L		100
62) Bromoform	13.75	173	65925m	10.64	ug\L		
63) Isopropylbenzene	14.02	105	976909	9.19	ug\L		100
64) 1,4-dichloro-2-Butene	14.29	75	186300	10.55	ug\L	#	100
66) Bromobenzene	14.51	156	168317	9.66	ug\L		87
67) 1,1,2,2-Tetrachloroethane	14.69	83	111595	10.35	ug\L		100
68) 1,2,3-Trichloropropane	14.69	75	123997m	15.32	ug\L		
69) n-Propylbenzene	14.75	91	1191090	9.45	ug\L		98
70) 2-Chlorotoluene	14.85	91	604515	7.78	ug\L		96
71) 4-Chlorotoluene	15.07	91	807552	9.66	ug\L		97
72) 1,3,5-Trimethylbenzene	15.08	105	739797	8.99	ug\L		90
73) Pentachloroethane	15.69	167	116740	10.36	ug\L		98
74) tert-Butylbenzene	15.64	119	909806	9.34	ug\L		99
75) 1,2,4-Trimethylbenzene	15.73	105	724065	9.09	ug\L		98
76) sec-Butylbenzene	16.02	105	1172510	9.16	ug\L		100
77) 1,3-Dichlorobenzene	16.18	146	327426	9.13	ug\L		97

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

Data File : C:\HPCHEM\1\DATA\100200\C16824.D Vial: 3
Acq On : 2 Oct 2000 9:44 Operator: TAG/VR
Sample : ICAL 10 ppb (V00050,V00057) Inst : VOA-C
Misc : QC Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 2 13:01 2000 Quant Results File: 10020025.RES

Quant Method : C:\HPCHEM\1\DATA\100200\10020025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Mon Oct 02 09:36:22 2000
Response via : Initial Calibration
DataAcq Meth : 10020025

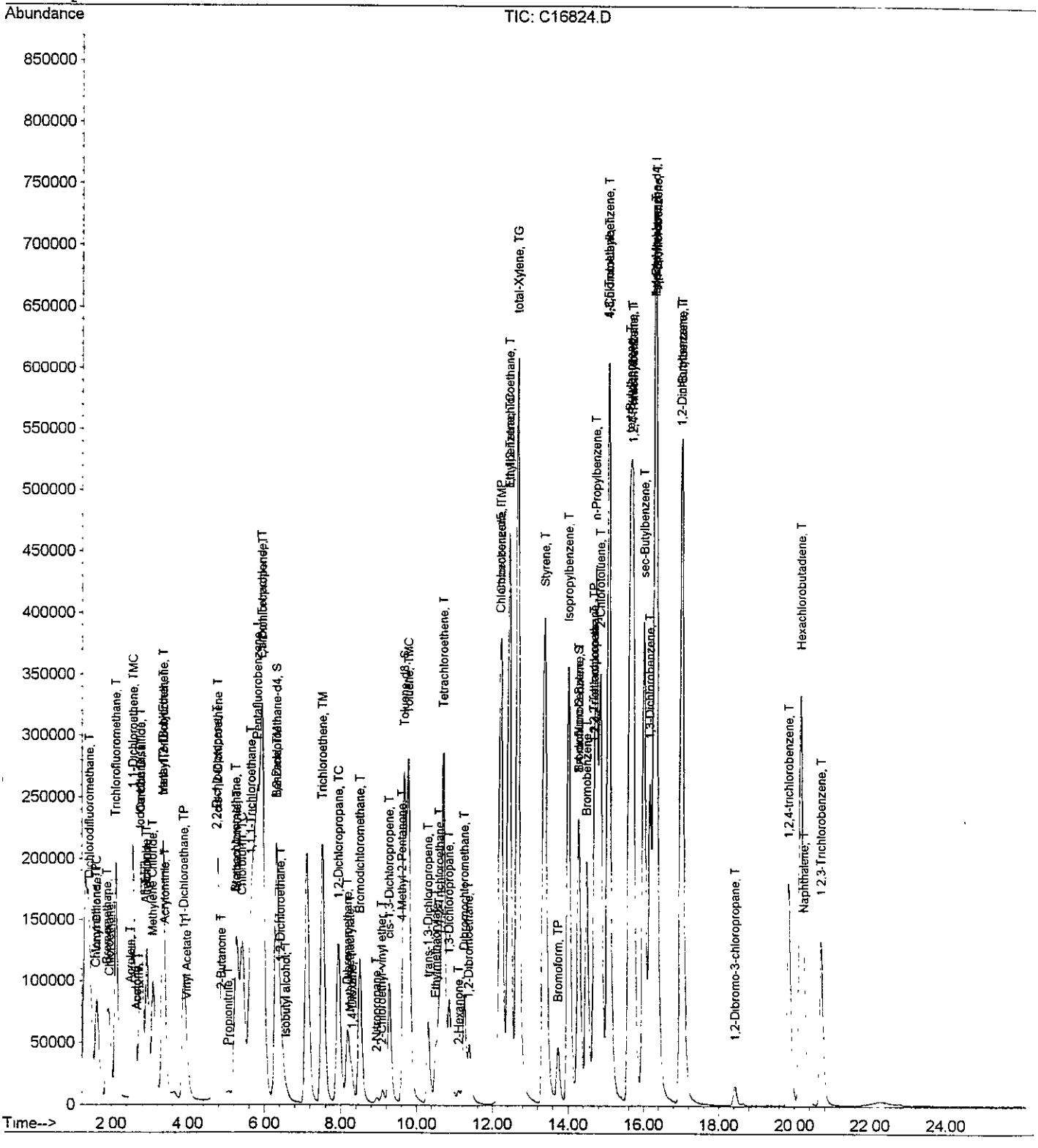
Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
78) Isopropyltoluene	16.31	119	883210	9.00	ug\L	99
79) 1,4-Dichlorobenzene	16.36	146	381484	10.12	ug\L	98
80) 1,2-Dichlorobenzene	17.00	146	268767	9.74	ug\L	99
81) n-Butylbenzene	17.03	91	982004	9.10	ug\L	99
82) 1,2-Dibromo-3-chloropropan	18.45	75	17333m	10.64	ug\L	
83) 1,2,4-trichlorobenzene	19.87	180	199559	8.97	ug\L	100
84) Hexachlorobutadiene	20.19	225	241677	9.50	ug\L	100
85) Naphthalene	20.28	128	175382	9.32	ug\L	100
86) 1,2,3-Trichlorobenzene	20.71	180	146450	8.92	ug\L	99

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

Quantitation Report

Data File : C:\HPCHEM\1\DATA\100200\C16824.D Vial: 3
Acq On : 2 Oct 2000 9:44 Operator: TAG/VR
Sample : ICAL 10 ppb (V00050,V00057) Inst : VOA-C
Misc : QC Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 2 13:01 2000 Quant Results File: 10020025.RES

Method : C:\HPCHEM\1\DATA\100200\10020025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Mon Oct 02 15:08:29 2000
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\100200\C16825.D Vial: 4
Acq On : 2 Oct 2000 10:14 Operator: TAG/VR
Sample : ICAL 20 ppb (V00050,V00057) Inst : VOA-C
Misc : QC Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 2 11:05 2000 Quant Results File: 10020025.RES

Quant Method : C:\HPCHEM\1\DATA\100200\10020025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Mon Oct 02 09:36:22 2000
Response via : Initial Calibration
DataAcq Meth : 10020025

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Pentafluorobenzene	5.83	168	495785	10.00	ug\L		-0.02
45) Chlorobenzene-d5	12.21	117	425011	10.00	ug\L		-0.01
61) 1,4-Dichlorobenzene-d4	16.32	152	214306	10.00	ug\L		0.00
System Monitoring Compounds							
32) 1,2-Dichloroethane-d4	6.32	65	252437	22.24	ug\L		-0.03
Spiked Amount 10.000	Range 80 - 120		Recovery = 222.40%#				
46) Toluene-d8	9.69	98	1242269	18.60	ug\L		-0.02
Spiked Amount 10.000	Range 87 - 104		Recovery = 186.00%#				
65) Bromofluorobenzene	14.30	95	640869	19.89	ug\L		-0.01
Spiked Amount 10.000	Range 84 - 110		Recovery = 198.90%#				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.43	85	520152	16.65	ug\L		99
3) Chloromethane	1.60	50	262838	15.95	ug\L		98
4) Vinyl Chloride	1.65	62	381759	20.26	ug\L		100
5) Bromomethane	1.91	94	296379	19.68	ug\L		99
6) Chloroethane	1.98	64	205633	16.61	ug\L		96
7) Trichlorofluoromethane	2.13	101	869109	19.93	ug\L	#	100
8) Acrolein	2.53	56	12709	37.37	ug\L	#	56
9) Acrylonitrile	3.41	53	37185	43.17	ug\L		97
10) 1,1-Dichloroethene	2.59	96	398460	18.78	ug\L		98
11) Acetone	2.68	58	5081	20.68	ug\L		95
12) Iodomethane	2.77	142	683487	26.38	ug\L		99
13) Allylchloride	2.94	39	325193	19.10	ug\L	#	46
14) Carbon Disulfide	2.79	76	996517	26.52	ug\L		100
15) Acetonitrile	2.94	41	557708	197.00	ug\L		97
16) Methylene Chloride	3.11	86	187388	20.11	ug\L	#	28
17) trans-1,2-Dichloroethene	3.37	96	404434	19.03	ug\L		97
18) MethylTertButylEther	3.37	73	370098	22.12	ug\L		100
19) 1,1-Dichloroethane	3.91	63	717251	19.06	ug\L		99
20) Vinyl Acetate	4.01	43	205851	27.34	ug\L		95
21) 2,2-Dichloropropane	4.77	77	652318	19.95	ug\L		99
22) cis-1,2-Dichloroethene	4.83	96	382210	19.64	ug\L		98
23) 2-Butanone	4.93	72	10026	20.17	ug\L	#	44
24) Propionitrile	5.09	54	58791	212.89	ug\L	#	80
25) Methacrylonitrile	5.31	41	401611	211.67	ug\L		99
26) Bromochloromethane	5.26	128	138827	21.26	ug\L		99
27) Chloroform	5.45	83	758677	20.89	ug\L		100
28) 1,1,1-Trichloroethane	5.67	97	742982	20.10	ug\L	#	83
29) Carbon Tetrachloride	5.93	119	676465	21.17	ug\L		83
30) 1,4-Dioxane	8.33	88	15395	400.40	ug\L	#	86

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

Data File : C:\HPCHEM\1\DATA\100200\C16825.D Vial: 4
Acq On : 2 Oct 2000 10:14 Operator: TAG/VR
Sample : ICAL 20 ppb (V00050,V00057) Inst : VOA-C
Misc : QC Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 2 11:05 2000 Quant Results File: 10020025.RES

Quant Method : C:\HPCHEM\1\DATA\100200\10020025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Mon Oct 02 09:36:22 2000
Response via : Initial Calibration
DataAcq Meth : 10020025

Compound	R.T.	QIon	Response	Conc Unit		Qvalue
31) 1,1-Dichloropropene	5.96	77	221106	5.87 ug\L	#	1
33) Benzene	6.34	78	1167123	20.17 ug\L		100
34) Isobutyl alcohol	6.58	43	48149	405.06 ug\L		93
35) 1,2-Dichloroethane	6.47	62	289125	22.44 ug\L		99
36) Trichloroethene	7.54	95	570084	22.39 ug\L		99
37) 1,2-Dichloropropane	7.95	63	403002	21.28 ug\L		99
38) Dibromomethane	8.20	93	174265	23.28 ug\L		95
39) Methylmethacrylate	8.29	69	81935	23.08 ug\L		87
40) Bromodichloromethane	8.51	83	587271	23.19 ug\L		99
41) 2-Nitropropane	8.97	43	15584	15.17 ug\L	#	100
42) 2-Chloroethyl-vinyl ether	9.12	63	54360	228.56 ug\L		100
43) cis-1,3-Dichloropropene	9.28	75	449795	22.87 ug\L		96
44) 4-Methyl-2-Pentanone	9.63	85	15836	21.74 ug\L	#	47
47) Toluene	9.80	92	791324	18.26 ug\L		100
48) trans-1,3-Dichloropropene	10.32	75	288061	23.46 ug\L		96
49) Ethylmethacrylate	10.53	69	190078	20.77 ug\L	#	94
50) 1,1,2-Trichloroethane	10.63	83	180632	21.35 ug\L		94
51) Tetrachloroethene	10.72	164	434732	19.46 ug\L		98
52) 1,3-Dichloropropane	10.88	76	327486	20.89 ug\L		100
53) 2-Hexanone	11.12	43	48246	20.46 ug\L	#	87
54) Dibromochloromethane	11.27	129	315675	23.42 ug\L		98
55) 1,2-Dibromoethane	11.39	107	224297	23.04 ug\L		99
56) Chlorobenzene	12.25	112	887862	19.79 ug\L		100
57) 1,1,1,2-Tetrachloroethane	12.44	131	377658	21.73 ug\L		98
58) Ethylbenzene	12.47	91	1632702	18.68 ug\L		99
59) total-Xylene	12.68	106	1758718m	57.09 ug\L		
60) Styrene	13.41	104	848122	19.74 ug\L		99
62) Bromoform	13.74	173	144587	21.96 ug\L		98
63) Isopropylbenzene	14.02	105	1908686	17.94 ug\L		99
64) 1,4-dichloro-2-Butene	14.29	75	358656	20.29 ug\L	#	100
66) Bromobenzene	14.51	156	336395	19.29 ug\L		87
67) 1,1,2,2-Tetrachloroethane	14.69	83	230227	21.32 ug\L		99
68) 1,2,3-Trichloropropane	14.71	75	218241	26.92 ug\L	#	100
69) n-Propylbenzene	14.76	91	2245154	17.79 ug\L		99
70) 2-Chlorotoluene	14.86	91	1250160	16.07 ug\L		98
71) 4-Chlorotoluene	15.07	91	1581087	18.89 ug\L		97
72) 1,3,5-Trimethylbenzene	15.08	105	1451918	17.62 ug\L		89
73) Pentachloroethane	15.67	167	240345	21.29 ug\L		97
74) tert-Butylbenzene	15.63	119	1774471	18.20 ug\L		99
75) 1,2,4-Trimethylbenzene	15.73	105	1427589	17.90 ug\L		98
76) sec-Butylbenzene	16.02	105	2296686	17.92 ug\L		100
77) 1,3-Dichlorobenzene	16.19	146	664038	18.48 ug\L		99

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

Data File : C:\HPCHEM\1\DATA\100200\C16825.D Vial: 4
Acq On : 2 Oct 2000 10:14 Operator: TAG/VR
Sample : ICAL 20 ppb (V00050,V00057) Inst : VOA-C
Misc : QC Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 2 11:05 2000 Quant Results File: 10020025.RES

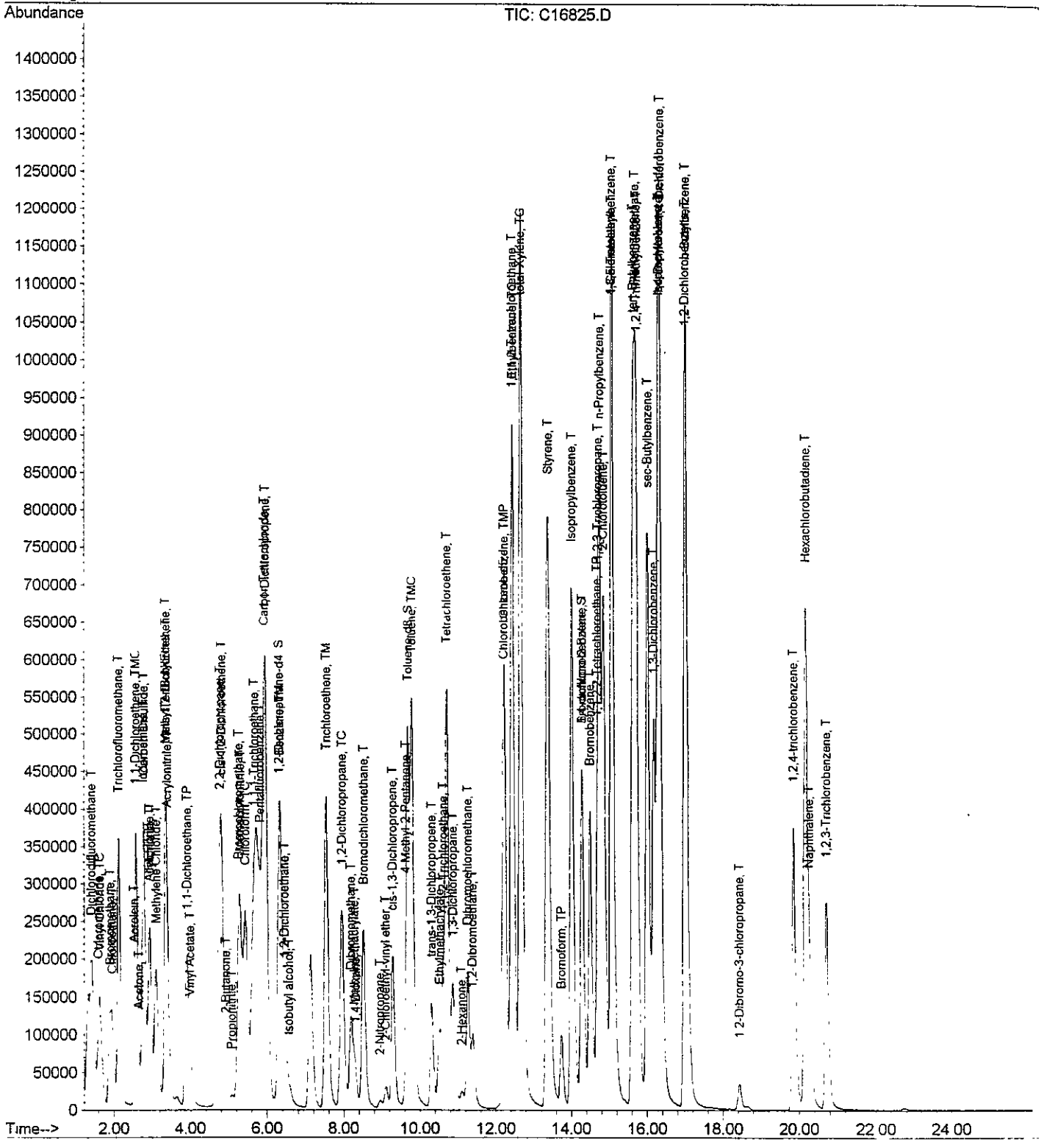
Quant Method : C:\HPCHEM\1\DATA\100200\10020025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Mon Oct 02 09:36:22 2000
Response via : Initial Calibration
DataAcq Meth : 10020025

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
78)	Isopropyltoluene	16.31	119	1747682	17.78	ug\L	100
79)	1,4-Dichlorobenzene	16.35	146	733683	19.43	ug\L	99
80)	1,2-Dichlorobenzene	17.00	146	531165	19.22	ug\L	99
81)	n-Butylbenzene	17.04	91	1920433	17.77	ug\L	99
82)	1,2-Dibromo-3-chloropropan	18.44	75	39311	24.08	ug\L	96
83)	1,2,4-trichlorobenzene	19.87	180	411896	18.48	ug\L	100
84)	Hexachlorobutadiene	20.19	225	484139	19.00	ug\L	100
85)	Naphthalene	20.28	128	375392	19.93	ug\L	100
86)	1,2,3-Trichlorobenzene	20.72	180	301408	18.32	ug\L	98

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

Data File : C:\HPCHEM\1\DATA\100200\C16825.D Vial: 4
Acq On : 2 Oct 2000 10:14 Operator: TAG/VR
Sample : ICAL 20 ppb (V00050,V00057) Inst : VOA-C
Misc : QC Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 2 11:05 2000 Quant Results File: 10020025.RES

Method : C:\HPCHEM\1\DATA\100200\10020025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Mon Oct 02 15:08:29 2000
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\100200\C16826.D Vial: 5
Acq On : 2 Oct 2000 11:45 Operator: TAG/VR
Sample : ICAL 30 ppb (V00050,V00057) Inst : VOA-C
Misc : QC Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 2 12:12 2000 Quant Results File: 10020025.RES

Quant Method : c:\hpchem\1\data\100200\10020025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Mon Oct 02 09:36:22 2000
Response via : Initial Calibration
DataAcq Meth : 10020025

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Pentafluorobenzene	5.82	168	561481	10.00	ug\L		-0.03
45) Chlorobenzene-d5	12.19	117	444506	10.00	ug\L		-0.03
61) 1,4-Dichlorobenzene-d4	16.31	152	211128	10.00	ug\L		0.00
System Monitoring Compounds							
32) 1,2-Dichloroethane-d4	6.31	65	366899	28.54	ug\L		-0.03
Spiked Amount 10.000	Range 80 - 120		Recovery = 285.40%#				
46) Toluene-d8	9.68	98	2011542	28.80	ug\L		-0.03
Spiked Amount 10.000	Range 87 - 104		Recovery = 288.00%#				
65) Bromofluorobenzene	14.29	95	968925	30.52	ug\L		-0.02
Spiked Amount 10.000	Range 84 - 110		Recovery = 305.20%#				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.43	85	804398	22.74	ug\L		99
3) Chloromethane	1.59	50	414149	22.19	ug\L		98
4) Vinyl Chloride	1.63	62	597092	27.98	ug\L		99
5) Bromomethane	1.90	94	449738	26.37	ug\L		99
6) Chloroethane	1.97	64	326197	23.26	ug\L		97
7) Trichlorofluoromethane	2.13	101	1367229	27.68	ug\L	#	100
8) Acrolein	2.51	56	15676	40.60	ug\L	#	65
9) Acrylonitrile	3.40	53	49498	50.74	ug\L		97
10) 1,1-Dichloroethene	2.58	96	634361	26.40	ug\L		99
11) Acetone	2.68	58	6855	24.64	ug\L		95
12) Iodomethane	2.75	142	1120191	37.99	ug\L		99
13) Allylchloride	2.93	39	523868	27.17	ug\L	#	45
14) Carbon Disulfide	2.78	76	1618332	38.03	ug\L		99
15) Acetonitrile	2.93	41	863689	269.39	ug\L		100
16) Methylene Chloride	3.09	86	277543	26.39	ug\L	#	27
17) trans-1,2-Dichloroethene	3.36	96	656300	27.27	ug\L		100
18) MethylTertButylEther	3.36	73	511312	26.98	ug\L		100
19) 1,1-Dichloroethane	3.90	63	1128945	26.49	ug\L		99
20) Vinyl Acetate	4.00	43	324039	38.00	ug\L	#	92
21) 2,2-Dichloropropane	4.75	77	1129300	30.50	ug\L		99
22) cis-1,2-Dichloroethene	4.81	96	603753	27.39	ug\L		100
23) 2-Butanone	4.88	72	15172	26.25	ug\L	#	1
24) Propionitrile	5.07	54	82059	262.38	ug\L	#	76
25) Methacrylonitrile	5.29	41	568585	264.62	ug\L		98
26) Bromochloromethane	5.26	128	207595	28.08	ug\L		97
27) Chloroform	5.44	83	1190628	28.94	ug\L		100
28) 1,1,1-Trichloroethane	5.66	97	1224426	29.24	ug\L	#	86
29) Carbon Tetrachloride	5.93	119	1096964	30.31	ug\L		85
30) 1,4-Dioxane	8.31	88	17795	408.50	ug\L	#	77

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

Data File : C:\HPCHEM\1\DATA\100200\C16826.D Vial: 5
Acq On : 2 Oct 2000 11:45 Operator: TAG/VR
Sample : ICAL 30 ppb (V00050,V00057) Inst : VOA-C
Misc : QC Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 2 12:12 2000 Quant Results File: 10020025.RES

Quant Method : c:\hpchem\1\data\100200\10020025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Mon Oct 02 09:36:22 2000
Response via : Initial Calibration
DataAcq Meth : 10020025

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
31)	1,1-Dichloropropene	5.97	77	345176	8.10	ug\L	#	1
33)	Benzene	6.34	78	1766520	26.95	ug\L		100
34)	Isobutyl alcohol	6.54	43	60214	447.29	ug\L	#	17
35)	1,2-Dichloroethane	6.45	62	401883	27.54	ug\L		98
36)	Trichloroethene	7.54	95	903086	31.32	ug\L		97
37)	1,2-Dichloropropane	7.95	63	594900	27.74	ug\L	#	97
38)	Dibromomethane	8.18	93	248978	29.36	ug\L		94
39)	Methylmethacrylate	8.28	69	108940	27.10	ug\L		88
40)	Bromodichloromethane	8.51	83	894269	31.18	ug\L		100
41)	2-Nitropropane	8.98	43	23337	20.06	ug\L	#	100
42)	2-Chloroethyl-vinyl ether	9.11	63	79376	293.60	ug\L		94
43)	cis-1,3-Dichloropropene	9.29	75	687922	30.89	ug\L		94
44)	4-Methyl-2-Pentanone	9.63	85	18358	22.25	ug\L	#	69
47)	Toluene	9.80	92	1274521	28.13	ug\L		99
48)	trans-1,3-Dichloropropene	10.31	75	437107	34.03	ug\L		95
49)	Ethylmethacrylate	10.52	69	277567	29.01	ug\L	#	93
50)	1,1,2-Trichloroethane	10.62	83	252372	28.53	ug\L		95
51)	Tetrachloroethene	10.72	164	698439	29.90	ug\L		96
52)	1,3-Dichloropropane	10.87	76	475664	29.02	ug\L		100
53)	2-Hexanone	11.10	43	64360	26.09	ug\L	#	86
54)	Dibromochloromethane	11.26	129	477180	33.85	ug\L		100
55)	1,2-Dibromoethane	11.39	107	322369	31.67	ug\L	#	98
56)	Chlorobenzene	12.24	112	1363767	29.07	ug\L		100
57)	1,1,1,2-Tetrachloroethane	12.43	131	575444	31.65	ug\L		97
58)	Ethylbenzene	12.47	91	2558506	27.99	ug\L		100
59)	total-Xylene	12.68	106	2735619m	84.90	ug\L		
60)	Styrene	13.40	104	1285819	28.62	ug\L		100
62)	Bromoform	13.74	173	213523	32.36	ug\L		98
63)	Isopropylbenzene	14.02	105	3013474	28.75	ug\L		99
64)	1,4-dichloro-2-Butene	14.28	75	553849	31.80	ug\L	#	100
66)	Bromobenzene	14.50	156	501727	29.20	ug\L		85
67)	1,1,2,2-Tetrachloroethane	14.68	83	310812	29.22	ug\L		99
68)	1,2,3-Trichloropropane	14.70	75	309356	38.73	ug\L	#	100
69)	n-Propylbenzene	14.76	91	3566203	28.68	ug\L		99
70)	2-Chlorotoluene	14.85	91	1823712	23.80	ug\L		97
71)	4-Chlorotoluene	15.07	91	2401627	29.12	ug\L		98
72)	1,3,5-Trimethylbenzene	15.08	105	2243948	27.65	ug\L		89
73)	Pentachloroethane	15.67	167	359533	32.33	ug\L		97
74)	tert-Butylbenzene	15.62	119	2790803	29.05	ug\L		99
75)	1,2,4-Trimethylbenzene	15.72	105	2157621	27.46	ug\L		99
76)	sec-Butylbenzene	16.02	105	3622239	28.69	ug\L		99
77)	1,3-Dichlorobenzene	16.19	146	1011985	28.59	ug\L		100

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

Data File : C:\HPCHEM\1\DATA\100200\C16826.D Vial: 5
Acq On : 2 Oct 2000 11:45 Operator: TAG/VR
Sample : ICAL 30 ppb (V00050,V00057) Inst : VOA-C
Misc : QC Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 2 12:12 2000 Quant Results File: 10020025.RES

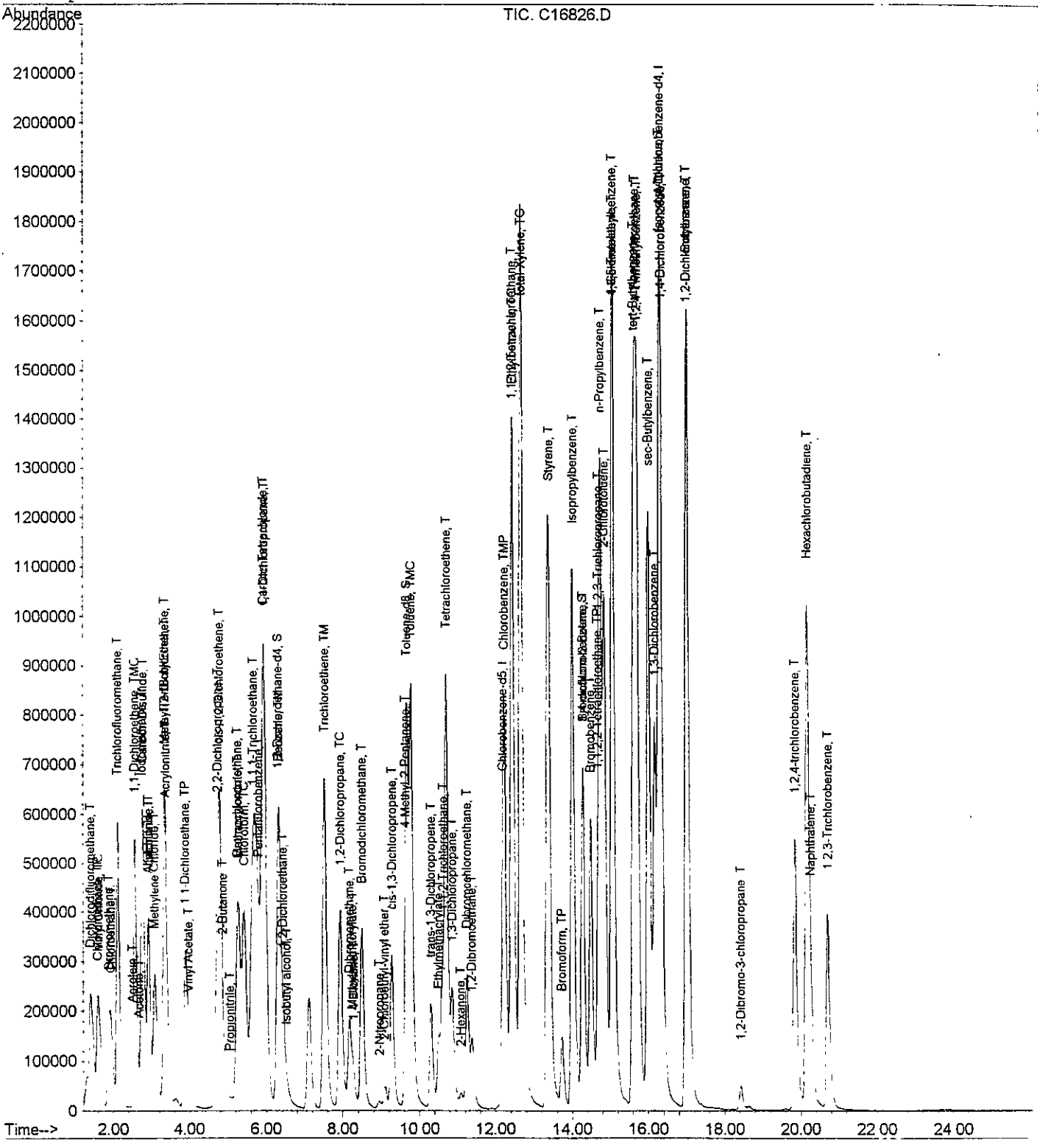
Quant Method : c:\hpchem\1\data\100200\10020025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Mon Oct 02 09:36:22 2000
Response via : Initial Calibration
DataAcq Meth : 10020025

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
78)	Isopropyltoluene	16.29	119	2754744	28.44	ug\L	100
79)	1,4-Dichlorobenzene	16.35	146	1079990	29.03	ug\L	100
80)	1,2-Dichlorobenzene	16.99	146	771469	28.33	ug\L	100
81)	n-Butylbenzene	17.02	91	2971442	27.91	ug\L	98
82)	1,2-Dibromo-3-chloropropan	18.43	75	51966	32.32	ug\L	90
83)	1,2,4-trichlorobenzene	19.86	180	594516	27.08	ug\L	100
84)	Hexachlorobutadiene	20.17	225	731890	29.16	ug\L	100
85)	Naphthalene	20.28	128	529856	28.55	ug\L	100
86)	1,2,3-Trichlorobenzene	20.71	180	423506	26.13	ug\L	97

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

Data File : C:\HPCHEM\1\DATA\100200\C16826.D Vial: 5
Acq On : 2 Oct 2000 11:45 Operator: TAG/VR
Sample : ICAL 30 ppb (V00050,V00057) Inst : VOA-C
Misc : QC Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 2 12:12 2000 Quant Results File: 10020025.RES

Method : C:\HPCHEM\1\DATA\100200\10020025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Mon Oct 02 15:08:29 2000
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\100200\C16827.D Vial: 6
Acq On : 2 Oct 2000 12:16 Operator: TAG/VR
Sample : ICAL 40 ppb (V00050,V00057) Inst : VOA-C
Misc : QC Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 2 14:27 2000 Quant Results File: 10020025.RES

Quant Method : c:\hpchem\1\data\100200\10020025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Mon Oct 02 09:36:22 2000
Response via : Initial Calibration
DataAcq Meth : 10020025

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.83	168	516197	10.00	ug\L	-0.02
45) Chlorobenzene-d5	12.20	117	446161	10.00	ug\L	-0.02
61) 1,4-Dichlorobenzene-d4	16.31	152	216316	10.00	ug\L	0.00
System Monitoring Compounds						
32) 1,2-Dichloroethane-d4	6.30	65	516956	43.74	ug\L	-0.04
Spiked Amount 10.000	Range 80 - 120		Recovery = 437.40%#			
46) Toluene-d8	9.68	98	2573594	36.70	ug\L	-0.03
Spiked Amount 10.000	Range 87 - 104		Recovery = 367.00%#			
65) Bromofluorobenzene	14.29	95	1315730	40.45	ug\L	-0.02
Spiked Amount 10.000	Range 84 - 110		Recovery = 404.50%#			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.43	85	1008435	31.00	ug\L	99
3) Chloromethane	1.59	50	521398	30.39	ug\L	98
4) Vinyl Chloride	1.64	62	745876	38.02	ug\L	99
5) Bromomethane	1.89	94	523684	33.39	ug\L	98
6) Chloroethane	1.97	64	368376	28.58	ug\L	95
7) Trichlorofluoromethane	2.13	101	1707173	37.60	ug\L #	100
8) Acrolein	2.52	56	23632	65.85	ug\L #	59
9) Acrylonitrile	3.41	53	67840	75.65	ug\L	96
10) 1,1-Dichloroethene	2.58	96	780972	35.35	ug\L	98
11) Acetone	2.68	58	9436	36.89	ug\L	95
12) Iodomethane	2.76	142	1382614	50.87	ug\L	99
13) Allylchloride	2.94	39	671599	37.89	ug\L #	43
14) Carbon Disulfide	2.78	76	2006107	51.27	ug\L	100
15) Acetonitrile	2.93	41	1099810	373.13	ug\L	99
16) Methylene Chloride	3.10	86	362691	37.64	ug\L #	28
17) trans-1,2-Dichloroethene	3.36	96	800241	36.17	ug\L	97
18) MethylTertButylEther	3.36	73	719467	41.30	ug\L	100
19) 1,1-Dichloroethane	3.91	63	1420086	36.25	ug\L	99
20) Vinyl Acetate	4.00	43	447742	57.11	ug\L	95
21) 2,2-Dichloropropane	4.76	77	1386273	40.72	ug\L	99
22) cis-1,2-Dichloroethene	4.81	96	755243	37.27	ug\L	98
23) 2-Butanone	4.90	72	20613m	37.79	ug\L	
24) Propionitrile	5.08	54	118074	410.65	ug\L #	96
25) Methacrylonitrile	5.30	41	780706	395.21	ug\L	98
26) Bromochloromethane	5.25	128	275147	40.48	ug\L	99
27) Chloroform	5.44	83	1503795	39.76	ug\L	100
28) 1,1,1-Trichloroethane	5.65	97	1510163	39.23	ug\L #	86
29) Carbon Tetrachloride	5.94	119	1387464	41.70	ug\L	87
30) 1,4-Dioxane	8.32	88	28820	713.61	ug\L #	86

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

Data File : C:\HPCHEM\1\DATA\100200\C16827.D Vial: 6
Acq On : 2 Oct 2000 12:16 Operator: TAG/VR
Sample : ICAL 40 ppb (V00050,V00057) Inst : VOA-C
Misc : QC Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 2 14:27 2000 Quant Results File: 10020025.RES

Quant Method : c:\hpchem\1\data\100200\10020025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Mon Oct 02 09:36:22 2000
Response via : Initial Calibration
DataAcq Meth : 10020025

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
31)	1,1-Dichloropropene	5.97	77	436444	11.14	ug\L	#	1
33)	Benzene	6.33	78	2300928	38.18	ug\L		100
34)	Isobutyl alcohol	6.55	43	94025	759.72	ug\L		93
35)	1,2-Dichloroethane	6.46	62	569860	42.48	ug\L		98
36)	Trichloroethene	7.54	95	1142300	43.09	ug\L		99
37)	1,2-Dichloropropane	7.95	63	801971	40.67	ug\L		98
38)	Dibromomethane	8.19	93	348897	44.76	ug\L		96
39)	Methylmethacrylate	8.28	69	156669	42.40	ug\L		89
40)	Bromodichloromethane	8.51	83	1195162	45.33	ug\L		99
41)	2-Nitropropane	8.96	43	33651	31.46	ug\L	#	100
42)	2-Chloroethyl-vinyl ether	9.11	63	111520	446.68	ug\L		95
43)	cis-1,3-Dichloropropene	9.28	75	933682	45.60	ug\L		96
44)	4-Methyl-2-Pentanone	9.62	85	48766m	64.30	ug\L		
47)	Toluene	9.81	92	1579779	34.73	ug\L		100
48)	trans-1,3-Dichloropropene	10.32	75	612742	47.53	ug\L		96
49)	Ethylmethacrylate	10.51	69	391566	40.77	ug\L	#	95
50)	1,1,2-Trichloroethane	10.61	83	364551m	41.05	ug\L		
51)	Tetrachloroethene	10.72	164	854208	36.43	ug\L		98
52)	1,3-Dichloropropane	10.88	76	653521m	39.72	ug\L		
53)	2-Hexanone	11.10	43	97060	39.20	ug\L	#	87
54)	Dibromochloromethane	11.27	129	659096	46.59	ug\L		98
55)	1,2-Dibromoethane	11.39	107	457766	44.80	ug\L		99
56)	Chlorobenzene	12.25	112	1762106	37.42	ug\L		100
57)	1,1,1,2-Tetrachloroethane	12.44	131	762685	41.79	ug\L		97
58)	Ethylbenzene	12.46	91	3225781	35.16	ug\L		100
59)	total-Xylene	12.68	106	3463412m	107.09	ug\L		
60)	Styrene	13.42	104	1674440	37.13	ug\L		99
62)	Bromoform	13.74	173	305465	44.73	ug\L	#	98
63)	Isopropylbenzene	14.02	105	3785999	35.25	ug\L		99
64)	1,4-dichloro-2-Butene	14.28	75	751080	42.09	ug\L	#	100
66)	Bromobenzene	14.51	156	671037	38.11	ug\L		86
67)	1,1,2,2-Tetrachloroethane	14.69	83	442110	40.57	ug\L		99
68)	1,2,3-Trichloropropane	14.71	75	438330	53.56	ug\L	#	100
69)	n-Propylbenzene	14.75	91	4482844	35.18	ug\L		99
70)	2-Chlorotoluene	14.86	91	2371102	30.20	ug\L		97
71)	4-Chlorotoluene	15.06	91	3085145	36.51	ug\L		98
72)	1,3,5-Trimethylbenzene	15.08	105	2870676	34.52	ug\L		88
73)	Pentachloroethane	15.68	167	490678	43.07	ug\L		96
74)	tert-Butylbenzene	15.63	119	3501870	35.58	ug\L		100
75)	1,2,4-Trimethylbenzene	15.72	105	2773155	34.45	ug\L		98
76)	sec-Butylbenzene	16.01	105	4539172	35.09	ug\L		100
77)	1,3-Dichlorobenzene	16.19	146	1320915	36.43	ug\L		100

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

Data File : C:\HPCHEM\1\DATA\100200\C16827.D Vial: 6
Acq On : 2 Oct 2000 12:16 Operator: TAG/VR
Sample : ICAL 40 ppb (V00050,V00057) Inst : VOA-C
Misc : QC Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 2 14:27 2000 Quant Results File: 10020025.RES

Quant Method : c:\hpchem\1\data\100200\10020025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Mon Oct 02 09:36:22 2000
Response via : Initial Calibration
DataAcq Meth : 10020025

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
78) Isopropyltoluene	16.30	119	3418379	34.44 ug\L	100
79) 1,4-Dichlorobenzene	16.35	146	1426041	37.41 ug\L	100
80) 1,2-Dichlorobenzene	16.99	146	1043970	37.42 ug\L	99
81) n-Butylbenzene	17.02	91	3736291	34.25 ug\L	98
82) 1,2-Dibromo-3-chloropropan	18.43	75	74267	45.08 ug\L	87
83) 1,2,4-trichlorobenzene	19.86	180	823069	36.59 ug\L	100
84) Hexachlorobutadiene	20.18	225	913598	35.53 ug\L	100
85) Naphthalene	20.28	128	769740	40.48 ug\L	100
86) 1,2,3-Trichlorobenzene	20.71	180	590293	35.55 ug\L	99

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

Data File : C:\HPCHEM\1\DATA\100200\C16827.D Vial: 6
Acq On : 2 Oct 2000 12:16 Operator: TAG/VR
Sample : ICAL 40 ppb (V00050,V00057) Inst : VOA-C
Misc : QC Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 2 14:27 2000 Quant Results File: 10020025.RES

Method : C:\HPCHEM\1\DATA\100200\10020025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Mon Oct 02 15:08:29 2000
Response via : Initial Calibration

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\100200\C16828.D Vial: 7
Acq On : 2 Oct 2000 12:46 Operator: TAG/VR
Sample : ICV 10 ppb (V00056,V00057) Inst : VOA-C
Misc : QC Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 2 13:12 2000 Quant Results File: 10020025.RES

Quant Method : c:\hpchem\1\data\100200\10020025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Mon Oct 02 09:36:22 2000
Response via : Initial Calibration
DataAcq Meth : 10020025

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Pentafluorobenzene	5.83	168	529455	10.00	ug\L		-0.03
45) Chlorobenzene-d5	12.21	117	460470	10.00	ug\L		-0.02
61) 1,4-Dichlorobenzene-d4	16.32	152	225312	10.00	ug\L		0.00
System Monitoring Compounds							
32) 1,2-Dichloroethane-d4	6.32	65	132195	10.90	ug\L		-0.03
Spiked Amount 10.000	Range 80 - 120		Recovery = 109.00%				
46) Toluene-d8	9.68	98	683480	9.44	ug\L		-0.03
Spiked Amount 10.000	Range 87 - 104		Recovery = 94.40%				
65) Bromofluorobenzene	14.30	95	348136	10.28	ug\L		-0.02
Spiked Amount 10.000	Range 84 - 110		Recovery = 102.80%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.45	85	412651	12.37	ug\L		100
3) Chloromethane	1.60	50	177812	10.10	ug\L		99
4) Vinyl Chloride	1.64	62	210917	10.48	ug\L		100
5) Bromomethane	1.91	94	186972	11.62	ug\L		98
6) Chloroethane	1.98	64	130041	9.84	ug\L		95
7) Trichlorofluoromethane	2.14	101	505642	10.86	ug\L	#	100
8) Acrolein	3.36	56	9829	27.38	ug\L		92
9) Acrylonitrile	3.41	53	18615	20.24	ug\L	#	93
10) 1,1-Dichloroethene	2.58	96	222530	9.82	ug\L		96
11) Acetone	2.66	58	2406	9.17	ug\L		74
12) Iodomethane	2.77	142	317036	11.70	ug\L		98
13) Allylchloride	2.93	39	190658	10.49	ug\L	#	44
14) Carbon Disulfide	2.79	76	504635	12.57	ug\L		100
15) Acetonitrile	2.94	41	320531	106.02	ug\L		98
16) Methylene Chloride	3.09	86	103544	10.26	ug\L	#	27
17) trans-1,2-Dichloroethene	3.36	96	234059	10.31	ug\L		96
18) MethylTertButylEther	3.37	73	198111	11.09	ug\L		99
19) 1,1-Dichloroethane	3.91	63	419941	10.45	ug\L		100
20) Vinyl Acetate	4.00	43	97423	12.11	ug\L		95
21) 2,2-Dichloropropane	4.76	77	346437	9.92	ug\L		99
22) cis-1,2-Dichloroethene	4.81	96	214453	10.32	ug\L		98
23) 2-Butanone	4.92	72	1915	5.33	ug\L	#	1
24) Propionitrile	5.09	54	30305	102.76	ug\L	#	91
25) Methacrylonitrile	5.31	41	210794	104.04	ug\L		99
26) Bromochloromethane	5.26	128	74506	10.69	ug\L		99
27) Chloroform	5.44	83	417808	10.77	ug\L		100
28) 1,1,1-Trichloroethane	5.66	97	416069	10.54	ug\L	#	79
29) Carbon Tetrachloride	5.93	119	371394	10.88	ug\L	#	75
30) 1,4-Dioxane	8.31	88	5900	148.75	ug\L	#	80

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

Data File : C:\HPCHEM\1\DATA\100200\C16828.D Vial: 7
Acq On : 2 Oct 2000 12:46 Operator: TAG/VR
Sample : ICV 10 ppb (V00056,V00057) Inst : VOA-C
Misc : QC Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 2 13:12 2000 Quant Results File: 10020025.RES

Quant Method : c:\hpchem\1\data\100200\10020025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Mon Oct 02 09:36:22 2000
Response via : Initial Calibration
DataAcq Meth : 10020025

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
31)	1,1-Dichloropropene	5.96	77	123307	3.07	ug\L	#	1
33)	Benzene	6.35	78	672502	10.88	ug\L		100
34)	Isobutyl alcohol	6.58	43	22831	179.85	ug\L		93
35)	1,2-Dichloroethane	6.46	62	152640	11.09	ug\L	#	90
36)	Trichloroethene	7.53	95	319664	11.76	ug\L		99
37)	1,2-Dichloropropane	7.96	63	219052	10.83	ug\L		99
38)	Dibromomethane	8.18	93	93342	11.67	ug\L		95
39)	Methylmethacrylate	8.29	69	40303	10.63	ug\L		92
40)	Bromodichloromethane	8.52	83	305855	11.31	ug\L		98
41)	2-Nitropropane	8.96	43	8549	7.79	ug\L	#	100
42)	2-Chloroethyl-vinyl ether	9.10	63	21143	85.64	ug\L	#	79
43)	cis-1,3-Dichloropropene	9.29	75	232924	11.09	ug\L		96
44)	4-Methyl-2-Pentanone	9.63	85	6626	8.52	ug\L	#	66
47)	Toluene	9.80	92	449966	9.59	ug\L		100
48)	trans-1,3-Dichloropropene	10.32	75	149720	11.25	ug\L		95
49)	Ethylmethacrylate	10.52	69	93941	9.48	ug\L	#	96
50)	1,1,2-Trichloroethane	10.62	83	93222	10.17	ug\L		93
51)	Tetrachloroethene	10.72	164	242322	10.01	ug\L		98
52)	1,3-Dichloropropane	10.89	76	171620	10.11	ug\L		99
53)	2-Hexanone	11.10	43	26909	10.53	ug\L	#	90
54)	Dibromochloromethane	11.27	129	163736	11.21	ug\L		99
55)	1,2-Dibromoethane	11.40	107	115781	10.98	ug\L		98
56)	Chlorobenzene	12.25	112	477754	9.83	ug\L		99
57)	1,1,1,2-Tetrachloroethane	12.44	131	196781	10.45	ug\L		99
58)	Ethylbenzene	12.46	91	912216	9.63	ug\L		99
59)	total-Xylene	12.68	106	954036m	28.58	ug\L		
60)	Styrene	13.41	104	450407	9.68	ug\L		98
62)	Bromoform	13.75	173	70669	10.81	ug\L		97
63)	Isopropylbenzene	14.02	105	1033182	9.24	ug\L		99
64)	1,4-dichloro-2-Butene	14.30	75	190698	10.26	ug\L	#	100
66)	Bromobenzene	14.49	156	178922	9.76	ug\L		89
67)	1,1,2,2-Tetrachloroethane	14.68	83	114495	10.09	ug\L		98
68)	1,2,3-Trichloropropane	14.70	75	86988	10.21	ug\L	#	100
69)	n-Propylbenzene	14.75	91	1275368	9.61	ug\L		98
70)	2-Chlorotoluene	14.85	91	638063	7.80	ug\L		96
71)	4-Chlorotoluene	15.07	91	873211	9.92	ug\L		98
72)	1,3,5-Trimethylbenzene	15.08	105	810175	9.35	ug\L		89
73)	Pentachloroethane	15.68	167	123750	10.43	ug\L		98
74)	tert-Butylbenzene	15.64	119	966341	9.43	ug\L		99
75)	1,2,4-Trimethylbenzene	15.74	105	798760	9.53	ug\L		98
76)	sec-Butylbenzene	16.01	105	1241791	9.22	ug\L		100
77)	1,3-Dichlorobenzene	16.19	146	366716	9.71	ug\L		98

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

Data File : C:\HPCHEM\1\DATA\100200\C16828.D Vial: 7
Acq On : 2 Oct 2000 12:46 Operator: TAG/VR
Sample : ICV 10 ppb (V00056,V00057) Inst : VOA-C
Misc : QC Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 2 13:12 2000 Quant Results File: 10020025.RES

Quant Method : c:\hpchem\1\data\100200\10020025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Mon Oct 02 09:36:22 2000
Response via : Initial Calibration
DataAcq Meth : 10020025

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
78) Isopropyltoluene	16.31	119	960554	9.29	ug\L	99
79) 1,4-Dichlorobenzene	16.36	146	394242	9.93	ug\L	98
80) 1,2-Dichlorobenzene	17.00	146	282147	9.71	ug\L	98
81) n-Butylbenzene	17.03	91	1055698	9.29	ug\L	99
82) 1,2-Dibromo-3-chloropropan	18.43	75	19665	11.46	ug\L	96
83) 1,2,4-trichlorobenzene	19.86	180	238294	10.17	ug\L	100
84) Hexachlorobutadiene	20.18	225	262507	9.80	ug\L	100
85) Naphthalene	20.27	128	233697	11.80	ug\L	100
86) 1,2,3-Trichlorobenzene	20.71	180	180256	10.42	ug\L	98

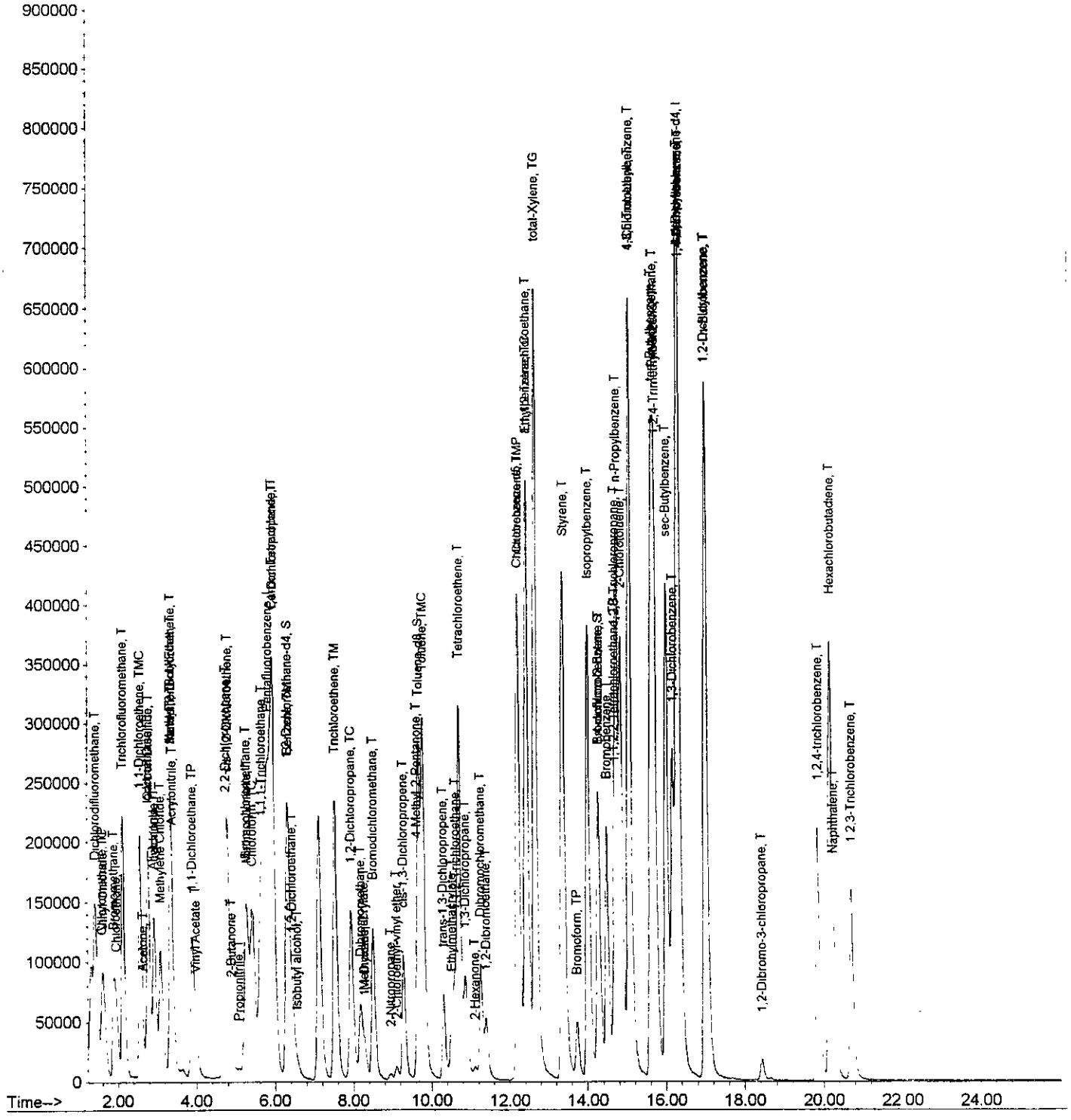
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\100200\C16828.D Vial: 7
Acq On : 2 Oct 2000 12:46 Operator: TAG/VR
Sample : ICV 10 ppb (V00056,V00057) Inst : VOA-C
Misc : QC Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 2 13:12 2000 Quant Results File: 10020025.RES

Method : C:\HPCHEM\1\DATA\100200\10020025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Mon Oct 02 15:08:29 2000
Response via : Initial Calibration

Abundance TIC C16828.D



Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\100200\C16828.D Vial: 7
Acq On : 2 Oct 2000 12:46 Operator: TAG/VR
Sample : ICV 10 ppb (V00056,V00057) Inst : VOA-C
Misc : QC Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\HPCHEM\1\DATA\100200\10020025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Mon Oct 02 15:09:13 2000
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	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Pentafluorobenzene	1.000	1.000	0.0	105	0.00
2	T	Dichlorodifluoromethane	0.502	0.779	-55.2#	155#	0.00
3	TP	Chloromethane	0.271	0.336	-24.0	131	0.00
4	TC	Vinyl Chloride	0.372	0.398	-7.0	105	0.00
5	T	Bromomethane	0.329	0.353	-7.3	116	0.00
6	T	Chloroethane	0.198	0.246	-24.2	116	0.00
7	T	Trichlorofluoromethane	0.830	0.955	-15.1	113	0.00
8	T	Acrolein	0.005	0.009	-80.0#	158#	0.00
9	T	Acrylonitrile	0.017	0.018	-5.9	104	0.00
10	TMC	1,1-Dichloroethene	0.387	0.420	-8.5	109	0.00
11	T	Acetone	0.005	0.005	0.0	92	0.00
12	T	Iodomethane	0.652	0.599	8.1	93	0.00
13	T	Allylchloride	0.311	0.360	-15.8	115	0.00
14	T	Carbon Disulfide	0.931	0.953	-2.4	98	0.00
15	T	Acetonitrile	0.040	0.061	-52.5#	112	0.00
16	T	Methylene Chloride	0.187	0.196	-4.8	109	0.00
17	T	trans-1,2-Dichloroethene	0.395	0.442	-11.9	112	0.00
18	T	MethylTertButylEther	0.338	0.374	-10.7	110	0.00
19	TP	1,1-Dichloroethane	0.695	0.793	-14.1	114	0.00
20	T	Vinyl Acetate	0.189	0.184	2.6	98	0.00
21	T	2,2-Dichloropropane	0.620	0.654	-5.5	105	0.00
22	T	cis-1,2-Dichloroethene	0.371	0.405	-9.2	110	0.00
23	T	2-Butanone	0.009	0.004	55.6#	41#	0.00
24	T	Propionitrile	0.005	0.006	-20.0	105	0.00
25	T	Methacrylonitrile	0.037	0.040	-8.1	109	0.00
26	T	Bromochloromethane	0.131	0.141	-7.6	107	0.00
27	TC	Chloroform	0.723	0.789	-9.1	110	0.00
28	T	1,1,1-Trichloroethane	0.715	0.786	-9.9	112	0.00
29	T	Carbon Tetrachloride	0.646	0.701	-8.5	108	0.00
30	T	1,4-Dioxane	0.001	0.001	0.0	102	0.00
31	T	1,1-Dichloropropene	0.215	0.233	-8.4	108	0.00
32	S	1,2-Dichloroethane-d4	0.252	0.250	0.8	102	0.00
33	TM	Benzene	1.133	1.270	-12.1	112	0.00
34	T	Isobutyl alcohol	0.002	0.002	0.0	102	0.00
35	T	1,2-Dichloroethane	0.268	0.288	-7.5	106	0.00
36	TM	Trichloroethene	0.558	0.604	-8.2	110	0.00
37	TC	1,2-Dichloropropane	0.380	0.414	-8.9	110	0.00
38	T	Dibromomethane	0.160	0.176	-10.0	109	0.00
39	T	Methylmethacrylate	0.071	0.076	-7.0	106	0.00
40	T	Bromodichloromethane	0.526	0.578	-9.9	108	0.00
41	T	2-Nitropropane	0.014	0.016	-14.3	127	0.00
42	T	2-Chloroethyl-vinyl ether	0.045	0.040	11.1	100	0.00

(#) = Out of Range

Data File : C:\HPCHEM\1\DATA\100200\C16828.D Vial: 7
Acq On : 2 Oct 2000 12:46 Operator: TAG/VR
Sample : ICV 10 ppb (V00056,V00057) Inst : VOA-C
Misc : QC Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\HPCHEM\1\DATA\100200\10020025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Mon Oct 02 15:09:13 2000
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	AvgRF	CCRF	%Dev	Area%	Dev(min)
43	T	cis-1,3-Dichloropropene	0.407	0.440	-8.1	108	0.00
44	T	4-Methyl-2-Pentanone	0.018	0.013	27.8#	60	0.00
45	I	Chlorobenzene-d5	1.000	1.000	0.0	107	0.00
46	S	Toluene-d8	1.540	1.484	3.6	103	0.00
47	TMC	Toluene	0.925	0.977	-5.6	111	0.00
48	T	trans-1,3-Dichloropropene	0.307	0.325	-5.9	108	0.00
49	T	Ethylmethacrylate	0.205	0.204	0.5	105	0.00
50	T	1,1,2-Trichloroethane	0.200	0.202	-1.0	103	0.00
51	T	Tetrachloroethene	0.520	0.526	-1.2	109	0.00
52	T	1,3-Dichloropropane	0.367	0.373	-1.6	104	0.00
53	T	2-Hexanone	0.051	0.058	-13.7	113	0.00
54	T	Dibromochloromethane	0.331	0.356	-7.6	108	0.00
55	T	1,2-Dibromoethane	0.244	0.251	-2.9	105	0.00
56	TMP	Chlorobenzene	1.013	1.038	-2.5	108	0.00
57	T	1,1,1,2-Tetrachloroethane	0.419	0.427	-1.9	106	0.00
58	TC	Ethylbenzene	1.877	1.981	-5.5	110	0.00
59	TG	total-Xylene	0.666	0.691	-3.8	107	0.00
60	T	Styrene	0.944	0.978	-3.6	107	0.00
61	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	105	0.00
62	TP	Bromoform	0.286	0.314	-9.8	107	0.00
63	T	Isopropylbenzene	4.410	4.586	-4.0	106	0.00
64	T	1,4-dichloro-2-Butene	0.991	0.846	14.6	102	0.00
65	S	Bromofluorobenzene	1.531	1.545	-0.9	104	0.00
66	T	Bromobenzene	0.752	0.794	-5.6	106	0.00
67	TP	1,1,2,2-Tetrachloroethane	0.478	0.508	-6.3	103	0.00
68	T	1,2,3-Trichloropropane	0.481	0.386	19.8	70	0.00
69	T	n-Propylbenzene	5.210	5.660	-8.6	107	0.00
70	T	2-Chlorotoluene	2.841	2.832	0.3	106	0.00
71	T	4-Chlorotoluene	3.582	3.876	-8.2	108	0.00
72	T	1,3,5-Trimethylbenzene	3.318	3.596	-8.4	110	0.00
73	T	Pentachloroethane	0.500	0.549	-9.8	106	0.00
74	T	tert-Butylbenzene	4.041	4.289	-6.1	106	0.00
75	T	1,2,4-Trimethylbenzene	3.239	3.545	-9.4	110	0.00
76	T	sec-Butylbenzene	5.244	5.511	-5.1	106	0.00
77	T	1,3-Dichlorobenzene	1.516	1.628	-7.4	112	0.00
78	T	Isopropyltoluene	3.983	4.263	-7.0	109	0.00
79	T	1,4-Dichlorobenzene	1.677	1.750	-4.4	103	0.00
80	T	1,2-Dichlorobenzene	1.200	1.252	-4.3	105	0.00
81	T	n-Butylbenzene	4.362	4.685	-7.4	108	0.00
82	T	1,2-Dibromo-3-chloropropane	0.078	0.087	-11.5	113	0.00

(#) = Out of Range

Data File : C:\HPCHEM\1\DATA\100200\C16828.D Vial: 7
Acq On : 2 Oct 2000 12:46 Operator: TAG/VR
Sample : ICV 10 ppb (V00056,V00057) Inst : VOA-C
Misc : QC Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\HPCHEM\1\DATA\100200\10020025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Mon Oct 02 15:09:13 2000
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%

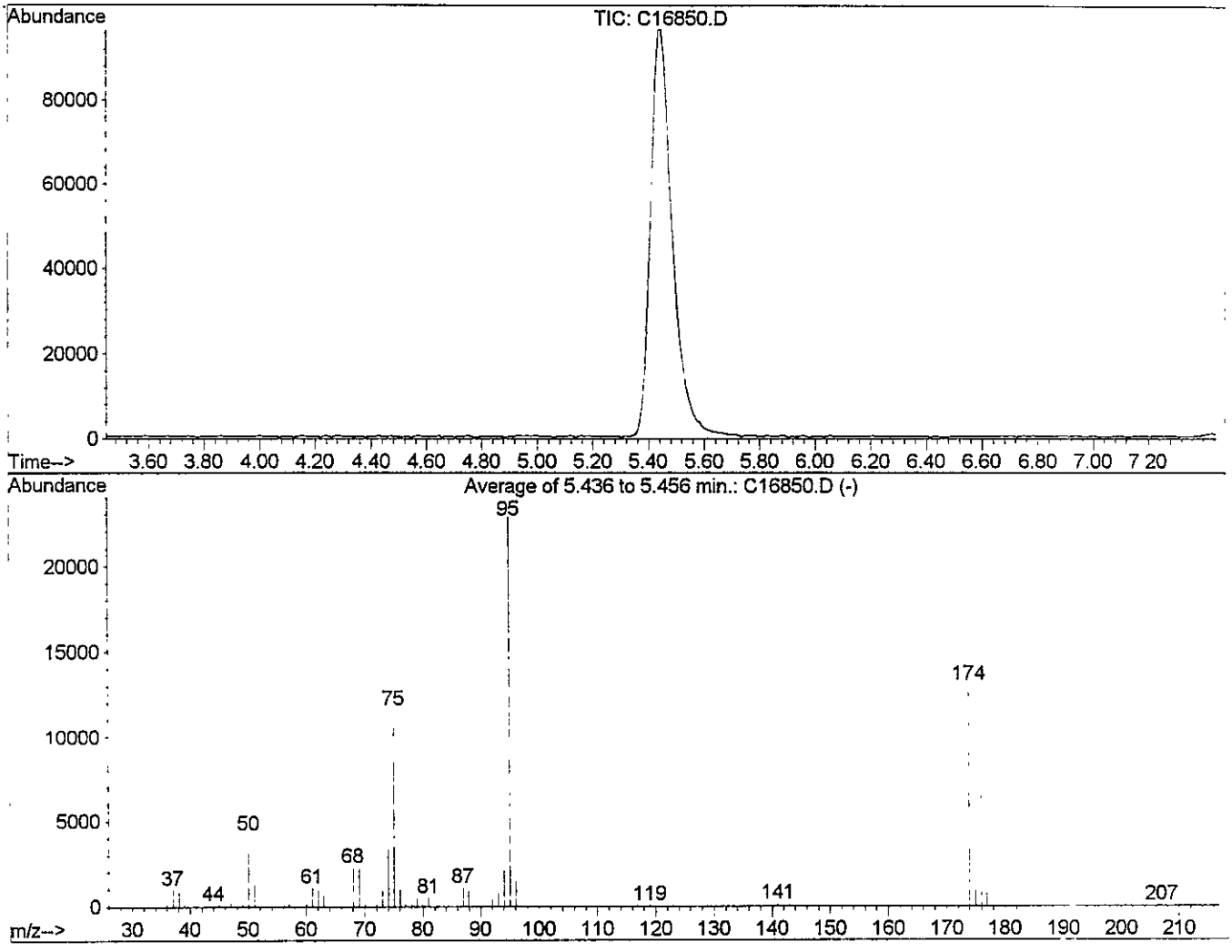
		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
83	T	1,2,4-trichlorobenzene	0.899	1.058	-17.7	119	0.00
84	T	Hexachlorobutadiene	1.089	1.165	-7.0	109	0.00
85	T	Naphthalene	0.786	1.037	-31.9#	133	0.00
86	T	1,2,3-Trichlorobenzene	0.650	0.800	-23.1	123	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

BFB

Data File : C:\HPCHEM\1\DATA\100300\C16850.D
Acq On : 3 Oct 2000 9:24
Sample : BFB 50ng V00048
Misc : QC
MS Integration Params: rteint.p
Method : c:\hpchem\1\methods\BFB01.M (RTE Integrator)
Title :

Vial: 1
Operator: TAG/VR
Inst : VOA-C
Multiplr: 1.00



AutoFind: Scans 428, 429, 430; Background Corrected with Scan 416

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	18.4	4214	PASS
75	95	30	60	50.7	11596	PASS
95	95	100	100	100.0	22893	PASS
96	95	5	9	6.4	1454	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	56.9	13019	PASS
175	174	5	9	7.0	916	PASS
176	174	95	101	98.0	12756	PASS
177	176	5	9	6.1	783	PASS

C16850.D BFB01.M Tue Oct 03 09:37:10 2000 RPT1

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\100300\C16851.D Vial: 1
Acq On : 3 Oct 2000 9:45 Operator: TAG/VR
Sample : CCV 10 ppb (V00050,V00057) Inst : VOA-C
Misc : QC Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 3 10:11 2000 Quant Results File: 10030025.RES

Quant Method : C:\HPCHEM\1\DATA\100300\10030025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Mon Oct 02 15:08:29 2000
Response via : Initial Calibration
DataAcq Meth : 10030025

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Pentafluorobenzene	5.80	168	543739	10.00	ug\L		-0.02
45) Chlorobenzene-d5	12.19	117	452291	10.00	ug\L		-0.01
61) 1,4-Dichlorobenzene-d4	16.32	152	223666	10.00	ug\L		0.00
System Monitoring Compounds							
32) 1,2-Dichloroethane-d4	6.32	65	126498	9.22	ug\L		0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 92.20%				
46) Toluene-d8	9.68	98	687582	9.87	ug\L		0.00
Spiked Amount 10.000	Range 87 - 104		Recovery = 98.70%				
65) Bromofluorobenzene	14.29	95	342113	9.99	ug\L		0.00
Spiked Amount 10.000	Range 84 - 110		Recovery = 99.90%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.41	85	246403	9.03	ug\L		99
3) Chloromethane	1.59	50	133490	9.07	ug\L		95
4) Vinyl Chloride	1.63	62	191731	9.49	ug\L		100
5) Bromomethane	1.88	94	163733	9.31	ug\L		98
6) Chloroethane	1.96	64	103568	9.61	ug\L		93
7) Trichlorofluoromethane	2.12	101	451065	9.99	ug\L	#	100
8) Acrolein	3.34	56	8668	28.48	ug\L		94
9) Acrylonitrile	3.40	53	16473	17.75	ug\L	#	95
10) 1,1-Dichloroethene	2.58	96	206648	9.82	ug\L		99
11) Acetone	2.68	58	1905	7.46	ug\L	#	24
12) Iodomethane	2.76	142	291503	8.22	ug\L		99
13) Allylchloride	2.92	39	169809	10.05	ug\L	#	28
14) Carbon Disulfide	2.79	76	519973	10.27	ug\L		100
15) Acetonitrile	2.93	41	281670	105.09	ug\L		99
16) Methylene Chloride	3.09	86	94181	9.47	ug\L	#	27
17) trans-1,2-Dichloroethene	3.36	96	215750	10.04	ug\L		99
18) MethylTertButylEther	3.35	73	172870	9.41	ug\L		100
19) 1,1-Dichloroethane	3.89	63	367704	9.74	ug\L		99
20) Vinyl Acetate	4.00	43	94588	8.85	ug\L	#	94
21) 2,2-Dichloropropane	4.74	77	327107	9.71	ug\L		99
22) cis-1,2-Dichloroethene	4.81	96	201982	10.02	ug\L		98
23) 2-Butanone	4.90	72	1897	3.83	ug\L	#	21
24) Propionitrile	5.10	54	11774	40.42	ug\L	#	57
25) Methacrylonitrile	5.29	41	186051	93.49	ug\L		99
26) Bromochloromethane	5.25	128	68878	9.67	ug\L		98
27) Chloroform	5.44	83	391685	9.96	ug\L		100
28) 1,1,1-Trichloroethane	5.65	97	387457	9.97	ug\L	#	75
29) Carbon Tetrachloride	5.92	119	345326	9.83	ug\L	#	72
30) 1,4-Dioxane	8.32	88	1024	41.62	ug\L	#	1

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

Data File : C:\HPCHEM\1\DATA\100300\C16851.D Vial: 1
Acq On : 3 Oct 2000 9:45 Operator: TAG/VR
Sample : CCV 10 ppb (V00050,V00057) Inst : VOA-C
Misc : QC Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 3 10:11 2000 Quant Results File: 10030025.RES

Quant Method : C:\HPCHEM\1\DATA\100300\10030025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Mon Oct 02 15:08:29 2000
Response via : Initial Calibration
DataAcq Meth : 10030025

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
31) 1,1-Dichloropropene	5.95	77	115062	9.84 ug\L #	1
33) Benzene	6.34	78	615745	10.00 ug\L	100
34) Isobutyl alcohol	6.56	43	19067	163.49 ug\L #	84
35) 1,2-Dichloroethane	6.45	62	137738	9.47 ug\L	98
36) Trichloroethene	7.53	95	300056	9.89 ug\L	96
37) 1,2-Dichloropropane	7.94	63	204280	9.89 ug\L #	95
38) Dibromomethane	8.17	93	83018	9.55 ug\L	94
39) Methylmethacrylate	8.27	69	36741	9.57 ug\L	88
40) Bromodichloromethane	8.52	83	276872	9.19 ug\L	98
41) 2-Nitropropane	8.97	43	6746	9.01 ug\L #	100
42) 2-Chloroethyl-vinyl ether	9.10	63	11851	6.01 ug\L #	75
43) cis-1,3-Dichloropropene	9.28	75	219906	9.93 ug\L	96
44) 4-Methyl-2-Pentanone	9.61	85	6462	6.34 ug\L #	1
47) Toluene	9.80	92	414370	9.90 ug\L	99
48) trans-1,3-Dichloropropene	10.32	75	134781	9.22 ug\L	94
49) Ethylmethacrylate	10.52	69	89714	9.69 ug\L #	94
50) 1,1,2-Trichloroethane	10.62	83	88607	9.80 ug\L	92
51) Tetrachloroethene	10.71	164	238450	10.14 ug\L	97
52) 1,3-Dichloropropane	10.86	76	161938	9.77 ug\L	99
53) 2-Hexanone	11.11	43	22849	9.88 ug\L #	89
54) Dibromochloromethane	11.27	129	141120	8.84 ug\L	100
55) 1,2-Dibromoethane	11.40	107	105583	9.58 ug\L	98
56) Chlorobenzene	12.24	112	457013	9.97 ug\L	99
57) 1,1,1,2-Tetrachloroethane	12.43	131	195415	10.32 ug\L	96
58) Ethylbenzene	12.46	91	856062	10.08 ug\L	100
59) total-Xylene	12.68	106	933283m	30.99 ug\L	
60) Styrene	13.41	104	430562	10.08 ug\L	98
62) Bromoform	13.73	173	59638	8.54 ug\L #	95
63) Isopropylbenzene	14.03	105	1012450	10.26 ug\L	99
64) 1,4-dichloro-2-Butene	14.29	75	187182	9.50 ug\L #	100
66) Bromobenzene	14.50	156	171103	10.17 ug\L	84
67) 1,1,2,2-Tetrachloroethane	14.68	83	103355	9.07 ug\L	98
68) 1,2,3-Trichloropropane	14.70	75	104939	9.74 ug\L #	100
69) n-Propylbenzene	14.75	91	1213557	10.41 ug\L	99
70) 2-Chlorotoluene	14.85	91	623705	9.82 ug\L	97
71) 4-Chlorotoluene	15.06	91	830663	10.37 ug\L	97
72) 1,3,5-Trimethylbenzene	15.07	105	768919	10.36 ug\L	89
73) Pentachloroethane	15.69	167	110430	9.10 ug\L	98
74) tert-Butylbenzene	15.64	119	931828	10.31 ug\L	98
75) 1,2,4-Trimethylbenzene	15.72	105	756355	10.44 ug\L	98
76) sec-Butylbenzene	16.02	105	1216947	10.38 ug\L	100
77) 1,3-Dichlorobenzene	16.19	146	344839	10.17 ug\L	99

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

Data File : C:\HPCHEM\1\DATA\100300\C16851.D Vial: 1
Acq On : 3 Oct 2000 9:45 Operator: TAG/VR
Sample : CCV 10 ppb (V00050,V00057) Inst : VOA-C
Misc : QC Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 3 10:11 2000 Quant Results File: 10030025.RES

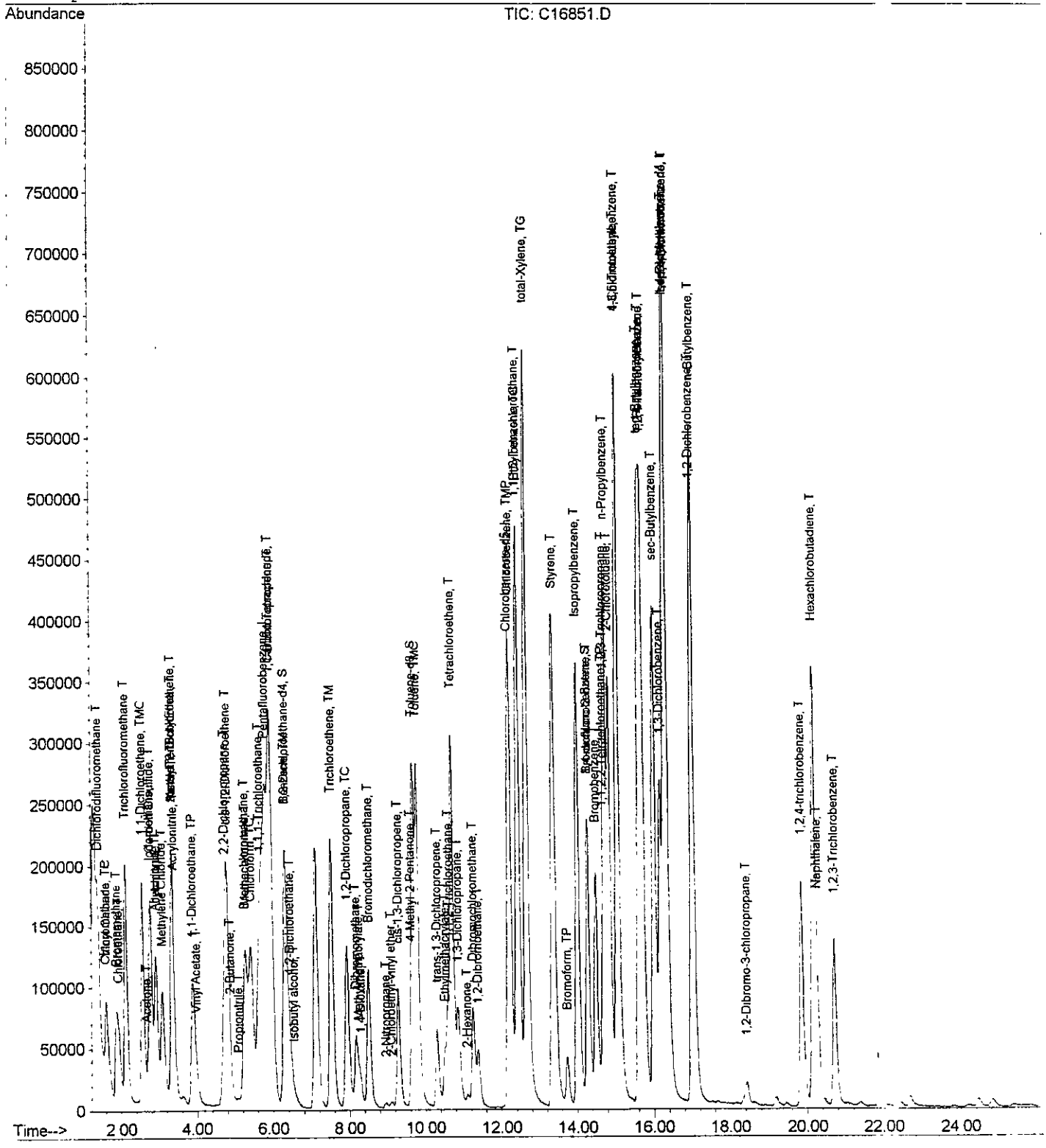
Quant Method : C:\HPCHEM\1\DATA\100300\10030025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Mon Oct 02 15:08:29 2000
Response via : Initial Calibration
DataAcq Meth : 10030025

Compound	R.T.	QIon	Response	Conc Unit		Qvalue
78) Isopropyltoluene	16.31	119	915921	10.28 ug\L		99
79) 1,4-Dichlorobenzene	16.36	146	375997	10.02 ug\L		100
80) 1,2-Dichlorobenzene	16.99	146	271032	10.09 ug\L		99
81) n-Butylbenzene	17.03	91	1010281	10.36 ug\L		98
82) 1,2-Dibromo-3-chloropropan	18.43	75	16854	9.06 ug\L	#	81
83) 1,2,4-trichlorobenzene	19.86	180	207696	10.33 ug\L		100
84) Hexachlorobutadiene	20.18	225	260998	10.72 ug\L		100
85) Naphthalene	20.28	128	220931	11.74 ug\L		100
86) 1,2,3-Trichlorobenzene	20.72	180	148479	10.21 ug\L		98

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

Data File : C:\HPCHEM\1\DATA\100300\C16851.D Vial: 1
Acq On : 3 Oct 2000 9:45 Operator: TAG/VR
Sample : CCV 10 ppb (V00050,V00057) Inst : VOA-C
Misc : QC Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 3 10:11 2000 Quant Results File: 10030025.RES

Method : C:\HPCHEM\1\DATA\100300\10030025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Mon Oct 02 15:08:29 2000
Response via : Initial Calibration



Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\100300\C16851.D Vial: 1
Acq On : 3 Oct 2000 9:45 Operator: TAG/VR
Sample : CCV 10 ppb (V00050,V00057) Inst : VOA-C
Misc : QC Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\HPCHEM\1\DATA\100300\10030025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Mon Oct 02 15:08:29 2000
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	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Pentafluorobenzene	1.000	1.000	0.0	108	-0.02
2	T	Dichlorodifluoromethane	0.502	0.453	9.8	93	-0.03
3	TP	Chloromethane	0.271	0.246	9.2	98	0.00
4	TC	Vinyl Chloride	0.372	0.353	5.1	96	-0.01
5	T	Bromomethane	0.329	0.301	8.5	101	-0.03
6	T	Chloroethane	0.198	0.190	4.0	93	-0.02
7	T	Trichlorofluoromethane	0.830	0.830	0.0	100	-0.01
8	T	Acrolein	0.005	0.008	-60.0#	140	-0.02
9	T	Acrylonitrile	0.017	0.015	11.8	92	-0.01
10	TMC	1,1-Dichloroethene	0.387	0.380	1.8	101	0.00
11	T	Acetone	0.005	0.004	20.0	73	0.02
12	T	Iodomethane	0.652	0.536	17.8	86	-0.01
13	T	Allylchloride	0.311	0.312	-0.3	103	0.00
14	T	Carbon Disulfide	0.931	0.956	-2.7	101	0.00
15	T	Acetonitrile	0.040	0.052	-30.0#	98	0.00
16	T	Methylene Chloride	0.187	0.173	7.5	99	0.00
17	T	trans-1,2-Dichloroethene	0.395	0.397	-0.5	104	0.00
18	T	MethylTertButylEther	0.338	0.318	5.9	96	-0.02
19	TP	1,1-Dichloroethane	0.695	0.676	2.7	100	-0.02
20	T	Vinyl Acetate	0.189	0.174	7.9	96	0.00
21	T	2,2-Dichloropropane	0.620	0.602	2.9	99	-0.02
22	T	cis-1,2-Dichloroethene	0.371	0.371	0.0	103	0.00
23	T	2-Butanone	0.009	0.003	66.7#	40#	-0.02
24	T	Propionitrile	0.005	0.002	60.0#	41#	0.02
25	T	Methacrylonitrile	0.037	0.034	8.1	96	-0.02
26	T	Bromochloromethane	0.131	0.127	3.1	99	-0.01
27	TC	Chloroform	0.723	0.720	0.4	103	0.00
28	T	1,1,1-Trichloroethane	0.715	0.713	0.3	104	-0.01
29	T	Carbon Tetrachloride	0.646	0.635	1.7	101	-0.01
30	T	1,4-Dioxane	0.001	0.000	100.0#	18#	0.00
31	T	1,1-Dichloropropene	0.215	0.212	1.4	100	-0.01
32	S	1,2-Dichloroethane-d4	0.252	0.233	7.5	98	0.00
33	TM	Benzene	1.133	1.132	0.1	103	-0.01
34	T	Isobutyl alcohol	0.002	0.002	0.0	85	-0.01
35	T	1,2-Dichloroethane	0.268	0.253	5.6	95	0.00
36	TM	Trichloroethene	0.558	0.552	1.1	103	0.00
37	TC	1,2-Dichloropropane	0.380	0.376	1.1	102	-0.01
38	T	Dibromomethane	0.160	0.153	4.4	97	-0.01
39	T	Methylmethacrylate	0.071	0.068	4.2	96	-0.02
40	T	Bromodichloromethane	0.526	0.509	3.2	98	0.00
41	T	2-Nitropropane	0.014	0.012	14.3	100	0.00
42	T	2-Chloroethyl-vinyl ether	0.045	0.022	51.1#	56	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\100300\C16851.D Vial: 1
Acq On : 3 Oct 2000 9:45 Operator: TAG/VR
Sample : CCV 10 ppb (V00050,V00057) Inst : VOA-C
Misc : QC Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\HPCHEM\1\DATA\100300\10030025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Mon Oct 02 15:08:29 2000
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	AvgRF	CCRF	%Dev	Area%	Dev(min)
43	T	cis-1,3-Dichloropropene	0.407	0.404	0.7	102	0.00
44	T	4-Methyl-2-Pentanone	0.018	0.012	33.3#	58	-0.02
45	I	Chlorobenzene-d5	1.000	1.000	0.0	105	-0.01
46	S	Toluene-d8	1.540	1.520	1.3	104	0.00
47	TMC	Toluene	0.925	0.916	1.0	102	0.00
48	T	trans-1,3-Dichloropropene	0.307	0.298	2.9	97	0.00
49	T	Ethylmethacrylate	0.205	0.198	3.4	100	0.00
50	T	1,1,2-Trichloroethane	0.200	0.196	2.0	98	0.00
51	T	Tetrachloroethene	0.520	0.527	-1.3	108	0.00
52	T	1,3-Dichloropropane	0.367	0.358	2.5	98	-0.02
53	T	2-Hexanone	0.051	0.051	0.0	96	0.00
54	T	Dibromochloromethane	0.331	0.312	5.7	93	0.00
55	T	1,2-Dibromoethane	0.244	0.233	4.5	96	0.00
56	TMP	Chlorobenzene	1.013	1.010	0.3	103	0.00
57	T	1,1,1,2-Tetrachloroethane	0.419	0.432	-3.1	105	-0.01
58	TC	Ethylbenzene	1.877	1.893	-0.9	103	0.00
59	TG	total-Xylene	0.666	0.688	-3.3	105	0.00
60	T	Styrene	0.944	0.952	-0.8	102	0.00
61	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	105	0.00
62	TP	Bromoform	0.286	0.267	6.6	90	-0.01
63	T	Isopropylbenzene	4.410	4.527	-2.7	104	0.00
64	T	1,4-dichloro-2-Butene	0.991	0.837	15.5	100	0.00
65	S	Bromofluorobenzene	1.531	1.530	0.1	102	0.00
66	T	Bromobenzene	0.752	0.765	-1.7	102	0.00
67	TP	1,1,2,2-Tetrachloroethane	0.478	0.462	3.3	93	0.00
68	T	1,2,3-Trichloropropane	0.481	0.469	2.5	85	0.00
69	T	n-Propylbenzene	5.210	5.426	-4.1	102	0.00
70	T	2-Chlorotoluene	2.841	2.789	1.8	103	0.00
71	T	4-Chlorotoluene	3.582	3.714	-3.7	103	0.00
72	T	1,3,5-Trimethylbenzene	3.318	3.438	-3.6	104	0.00
73	T	Pentachloroethane	0.500	0.494	1.2	95	0.00
74	T	tert-Butylbenzene	4.041	4.166	-3.1	102	0.00
75	T	1,2,4-Trimethylbenzene	3.239	3.382	-4.4	104	-0.01
76	T	sec-Butylbenzene	5.244	5.441	-3.8	104	0.00
77	T	1,3-Dichlorobenzene	1.516	1.542	-1.7	105	0.00
78	T	Isopropyltoluene	3.983	4.095	-2.8	104	0.00
79	T	1,4-Dichlorobenzene	1.677	1.681	-0.2	99	0.00
80	T	1,2-Dichlorobenzene	1.200	1.212	-1.0	101	-0.01
81	T	n-Butylbenzene	4.362	4.517	-3.6	103	0.00
82	T	1,2-Dibromo-3-chloropropane	0.078	0.075	3.8	97	0.00

(#) = Out of Range

Data File : C:\HPCHEM\1\DATA\100300\C16851.D Vial: 1
Acq On : 3 Oct 2000 9:45 Operator: TAG/VR
Sample : CCV 10 ppb (V00050,V00057) Inst : VOA-C
Misc : QC Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\HPCHEM\1\DATA\100300\10030025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Mon Oct 02 15:08:29 2000
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	AvgRF	CCRF	%Dev	Area%	Dev(min)
83	T	1,2,4-trichlorobenzene	0.899	0.929	-3.3	104	0.00
84	T	Hexachlorobutadiene	1.089	1.167	-7.2	108	0.00
85	T	Naphthalene	0.786	0.988	-25.7#	126	0.00
86	T	1,2,3-Trichlorobenzene	0.650	0.664	-2.2	101	0.02

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\100300\C16853.D Vial: 2
Acq On : 3 Oct 2000 11:16 Operator: TAG/VR
Sample : WATER BLANK 25ml DF=1 Inst : VOA-C
Misc : QC Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 3 11:43 2000 Quant Results File: 10030025.RES

Quant Method : C:\HPCHEM\1\DATA\100300\10030025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Mon Oct 02 15:08:29 2000
Response via : Initial Calibration
DataAcq Meth : 10030025

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Pentafluorobenzene	5.82	168	572497	10.00 ug\L	0.00
45) Chlorobenzene-d5	12.20	117	456911	10.00 ug\L	0.00
61) 1,4-Dichlorobenzene-d4	16.32	152	217853	10.00 ug\L	0.00
System Monitoring Compounds					
32) 1,2-Dichloroethane-d4	6.31	65	117757	8.15 ug\L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 81.50%		
46) Toluene-d8	9.69	98	676252	9.61 ug\L	0.00
Spiked Amount 10.000	Range 87 - 104		Recovery = 96.10%		
65) Bromofluorobenzene	14.29	95	324720	9.74 ug\L	0.00
Spiked Amount 10.000	Range 84 - 110		Recovery = 97.40%		
Target Compounds					Qvalue
15) Acetonitrile	3.09	41	8065	~~13.55 ug\L #~~	42
20) Vinyl Acetate	3.64	43	768	~~0.72 ug\L #~~	73
36) Trichloroethene	7.12	95	18407	~~0.58 ug\L #~~	9
64) 1,4-dichloro-2-Butene	14.30	75	167039	~~8.68 ug\L~~ #	100
68) 1,2,3-Trichloropropane	14.30	75	159234	~~15.18 ug\L #~~	100
85) Naphthalene	20.28	128	3707	0.81 ug\L	100

< ½ RDL

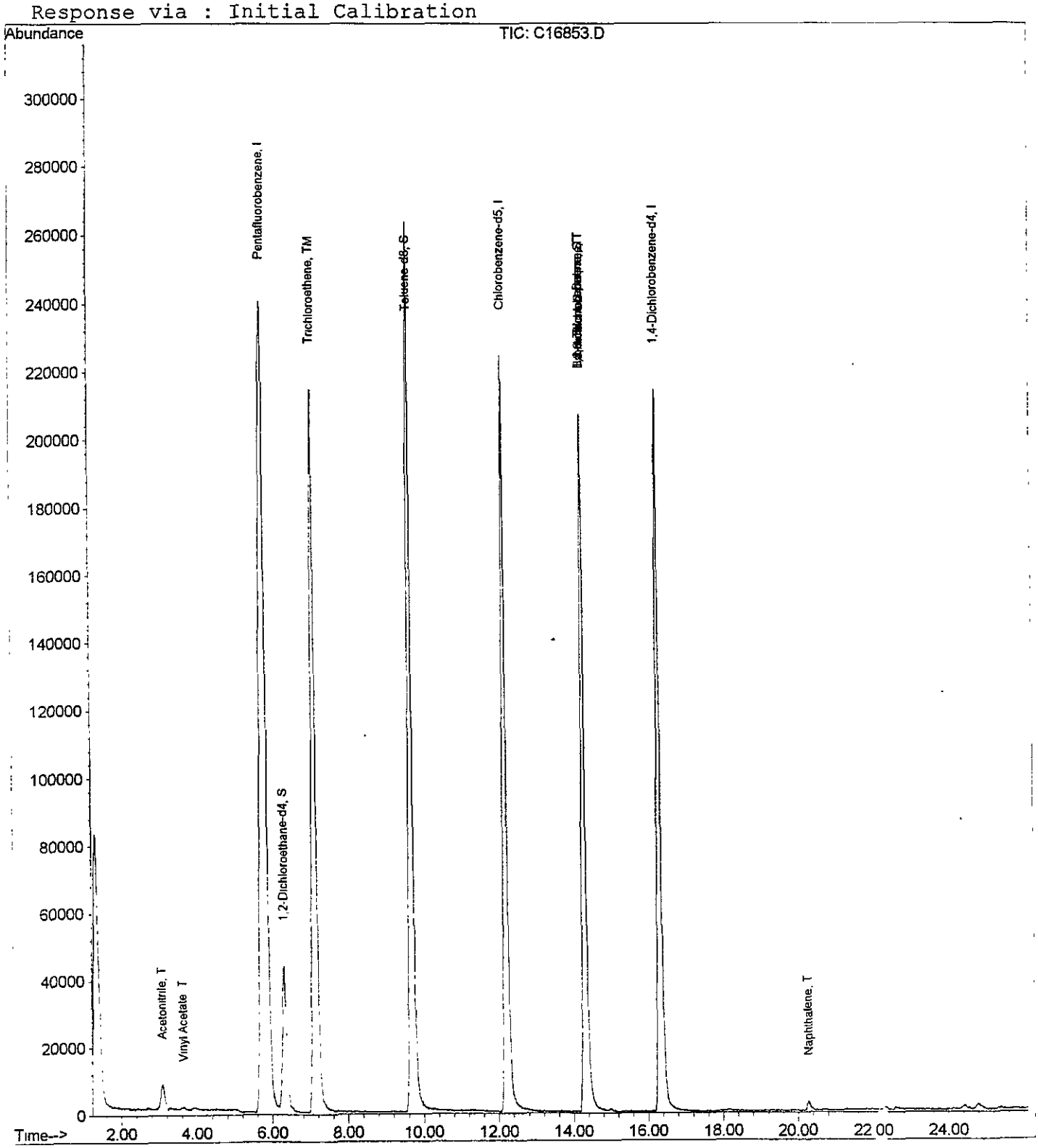
VR
10/3/00

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

Quantitation Report

Data File : C:\HPCHEM\1\DATA\100300\C16853.D Vial: 2
Acq On : 3 Oct 2000 11:16 Operator: TAG/VR
Sample : WATER BLANK 25ml DF=1 Inst : VOA-C
Misc : QC Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 3 11:43 2000 Quant Results File: 10030025.RES

Method : C:\HPCHEM\1\DATA\100300\10030025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Mon Oct 02 15:08:29 2000
Response via : Initial Calibration



VOA GC/MS QC CHECKLIST

SW-846-8260B

Project Specific Q·C

BATCH #: C100200025·M	METHOD: 8260B
MATRIX: water	

Are BS/BSD/MS/MSD recoveries within recovery ranges?	(Y)	N	NA
Is/Are blank result(s) less than 1/2 RDL for analytes of interest?	(Y)	N	NA
Are all surrogate recoveries within recovery ranges?	(Y)	N	NA
Are all Internal Standard areas w/in -50% to +100% of that in the CCV?	(Y)	N	NA
Are all Internal Standard retention times w/in 30 seconds of that in the CCV?	(Y)	N	NA
Are all MS/MSD compounds below the high standard?	(Y)	N	NA
Were sample analyses performed within holding times?	(Y)	N	NA
Were analyses performed such that carryover was not a problem?	(Y)	N	NA
Is the run log completely filled out (including review signature/date)?	(Y)	N	NA
Are all mistakes single lined out, initialled, & dated?	(Y)	N	NA

Analyst: VR		Reviewer:	
Date: 10/3/00	Time: 18:05	Date:	Time:

Spike Recovery and RPD Summary Report - WATER

Method : c:\hpchem\1\data\100300\10030025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Mon Oct 02 15:08:29 2000
Response via : Initial Calibration

Non-Spiked Sample: C16861.D

	Spike Sample	Spike Duplicate Sample
File ID :	C16862.D	C16863.D
Sample :	AC00431MS 25ml DF=1	AC00431MSD 25ml DF=1
Acq Time:	3 Oct 2000 16:09	3 Oct 2000 16:39

Compound	Sample Conc	Spike Added	Spike Res	Dup Res	Spike %Rec	Dup %Rec	RPD	QC Limits RPD	QC Limits Rec
1,1-Dichloroethene	0.0	10	9	10	94	97	4	20	88-118
Benzene	0.0	10	10	10	97	99	2	20	83-121
Trichloroethene	0.6	10	10	10	91	94	4	20	68-109
Toluene	0.1	10	10	10	97	97	1	20	85-109
Chlorobenzene	0.0	10	10	10	96	99	3	20	82-110

- Fails Limit Check

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\100300\C16862.D Vial: 11
Acq On : 3 Oct 2000 16:09 Operator: TAG/VR
Sample : AC00431MS 25ml DF=1 Inst : VOA-C
Misc : 25726/C10020025 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 3 16:35 2000 Quant Results File: 10030025.RES

Quant Method : c:\hpchem\1\data\100300\10030025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Mon Oct 02 15:08:29 2000
Response via : Initial Calibration
DataAcq Meth : 10030025

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Pentafluorobenzene	5.84	168	544379	10.00	ug\L		0.01
45) Chlorobenzene-d5	12.21	117	459074	10.00	ug\L		0.00
61) 1,4-Dichlorobenzene-d4	16.32	152	224751	10.00	ug\L		0.00
System Monitoring Compounds							
32) 1,2-Dichloroethane-d4	6.32	65	128245	9.33	ug\L		0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 93.30%				
46) Toluene-d8	9.69	98	695146	9.83	ug\L		0.01
Spiked Amount 10.000	Range 87 - 104		Recovery = 98.30%				
65) Bromofluorobenzene	14.30	95	340122	9.89	ug\L		0.00
Spiked Amount 10.000	Range 84 - 110		Recovery = 98.90%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.44	85	232648	8.51	ug\L		100
3) Chloromethane	1.59	50	133759	9.08	ug\L		99
4) Vinyl Chloride	1.64	62	187217	9.25	ug\L		100
5) Bromomethane	1.89	94	166416	9.47	ug\L		99
6) Chloroethane	1.96	64	106703	9.89	ug\L		96
7) Trichlorofluoromethane	2.14	101	435365	9.63	ug\L	#	100
8) Acrolein	3.35	56	9130	30.01	ug\L	#	92
9) Acrylonitrile	3.40	53	16913	18.20	ug\L		97
10) 1,1-Dichloroethene	2.57	96	197585	9.38	ug\L		97
11) Acetone	2.69	58	2820	11.02	ug\L		97
12) Iodomethane	2.78	142	285706	8.04	ug\L		99
13) Allylchloride	2.94	39	165530	9.79	ug\L	#	47
14) Carbon Disulfide	2.79	76	491368	9.69	ug\L		100
15) Acetonitrile	2.94	41	296552	109.94	ug\L		95
16) Methylene Chloride	3.10	86	91746	9.19	ug\L	#	25
17) trans-1,2-Dichloroethene	3.37	96	203906	9.48	ug\L		97
18) MethylTertButylEther	3.37	73	177183	9.63	ug\L		100
19) 1,1-Dichloroethane	3.91	63	361587	9.56	ug\L		99
20) Vinyl Acetate *	4.02	43	102297	9.51	ug\L		96
21) 2,2-Dichloropropane	4.76	77	321848	9.54	ug\L		99
22) cis-1,2-Dichloroethene	4.81	96	194376	9.63	ug\L		99
23) 2-Butanone	4.93	72	1939	3.91	ug\L	#	1
24) Propionitrile	5.10	54	27114	91.49	ug\L	#	96
25) Methacrylonitrile	5.31	41	188701	94.71	ug\L		98
26) Bromochloromethane	5.25	128	66666	9.35	ug\L		98
27) Chloroform	5.44	83	383030	9.73	ug\L		100
28) 1,1,1-Trichloroethane	5.67	97	371285	9.54	ug\L	#	74
29) Carbon Tetrachloride	5.95	119	336774	9.58	ug\L	#	75
30) 1,4-Dioxane	8.32	88	6754	199.09	ug\L	#	79

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

Data File : C:\HPCHEM\1\DATA\100300\C16862.D Vial: 11
Acq On : 3 Oct 2000 16:09 Operator: TAG/VR
Sample : AC00431MS 25ml DF=1 Inst : VOA-C
Misc : 25726/C10020025 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 3 16:35 2000 Quant Results File: 10030025.RES

Quant Method : c:\hpchem\1\data\100300\10030025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Mon Oct 02 15:08:29 2000
Response via : Initial Calibration
DataAcq Meth : 10030025

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
31)	1,1-Dichloropropene	5.96	77	109086	9.31	ug\L	#	1
33)	Benzene	6.34	78	597716	9.69	ug\L		100
34)	Isobutyl alcohol	6.59	43	22256	190.55	ug\L		98
35)	1,2-Dichloroethane	6.46	62	136812	9.39	ug\L	#	86
36)	Trichloroethene	7.54	95	293178	9.65	ug\L		98
37)	1,2-Dichloropropane	7.96	63	204443	9.88	ug\L		100
38)	Dibromomethane	8.20	93	83033	9.55	ug\L		95
39)	Methylmethacrylate	8.29	69	36755	9.56	ug\L		93
40)	Bromodichloromethane	8.53	83	284425	9.42	ug\L		99
41)	2-Nitropropane	8.96	43	8009	10.68	ug\L	#	100
42)	2-Chloroethyl-vinyl ether	9.11	63	122	2.13	ug\L	#	47
43)	cis-1,3-Dichloropropene	9.30	75	216763	9.78	ug\L		95
44)	4-Methyl-2-Pentanone	9.64	85	6052	5.93	ug\L	#	1
47)	Toluene	9.81	92	413877	9.74	ug\L		100
48)	trans-1,3-Dichloropropene	10.31	75	136440	9.19	ug\L		96
49)	Ethylmethacrylate	10.52	69	91135	9.70	ug\L	#	94
50)	1,1,2-Trichloroethane	10.63	83	86840	9.47	ug\L		94
51)	Tetrachloroethene	10.73	164	223315	9.36	ug\L		98
52)	1,3-Dichloropropane	10.89	76	159635	9.48	ug\L		99
53)	2-Hexanone	11.12	43	25647	10.93	ug\L	#	93
54)	Dibromochloromethane	11.27	129	149738	9.23	ug\L		99
55)	1,2-Dibromoethane	11.41	107	105225	9.41	ug\L		98
56)	Chlorobenzene	12.26	112	448121	9.64	ug\L		98
57)	1,1,1,2-Tetrachloroethane	12.44	131	188829	9.82	ug\L		98
58)	Ethylbenzene	12.46	91	858972	9.97	ug\L		100
59)	total-Xylene	12.68	106	920876m	30.13	ug\L		
60)	Styrene	13.42	104	424006	9.78	ug\L		98
62)	Bromoform	13.75	173	66519	9.36	ug\L		98
63)	Isopropylbenzene	14.03	105	1003111	10.12	ug\L		99
64)	1,4-dichloro-2-Butene	14.29	75	185486	9.36	ug\L	#	100
66)	Bromobenzene	14.52	156	170641	10.10	ug\L		85
67)	1,1,2,2-Tetrachloroethane	14.69	83	109874	9.60	ug\L		97
68)	1,2,3-Trichloropropane	14.70	75	83944	7.76	ug\L	#	100
69)	n-Propylbenzene	14.76	91	1174763	10.03	ug\L		99
70)	2-Chlorotoluene	14.87	91	637238	9.98	ug\L		98
71)	4-Chlorotoluene	15.07	91	838795	10.42	ug\L		98
72)	1,3,5-Trimethylbenzene	15.09	105	767421	10.29	ug\L		88
73)	Pentachloroethane	15.68	167	121007	9.87	ug\L		98
74)	tert-Butylbenzene	15.64	119	942670	10.38	ug\L		99
75)	1,2,4-Trimethylbenzene	15.73	105	751370	10.32	ug\L		98
76)	sec-Butylbenzene	16.02	105	1219510	10.35	ug\L		100
77)	1,3-Dichlorobenzene	16.19	146	350333	10.28	ug\L		99

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

Data File : C:\HPCHEM\1\DATA\100300\C16862.D Vial: 11
Acq On : 3 Oct 2000 16:09 Operator: TAG/VR
Sample : AC00431MS 25ml DF=1 Inst : VOA-C
Misc : 25726/C10020025 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 3 16:35 2000 Quant Results File: 10030025.RES

Quant Method : c:\hpchem\1\data\100300\10030025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Mon Oct 02 15:08:29 2000
Response via : Initial Calibration
DataAcq Meth : 10030025

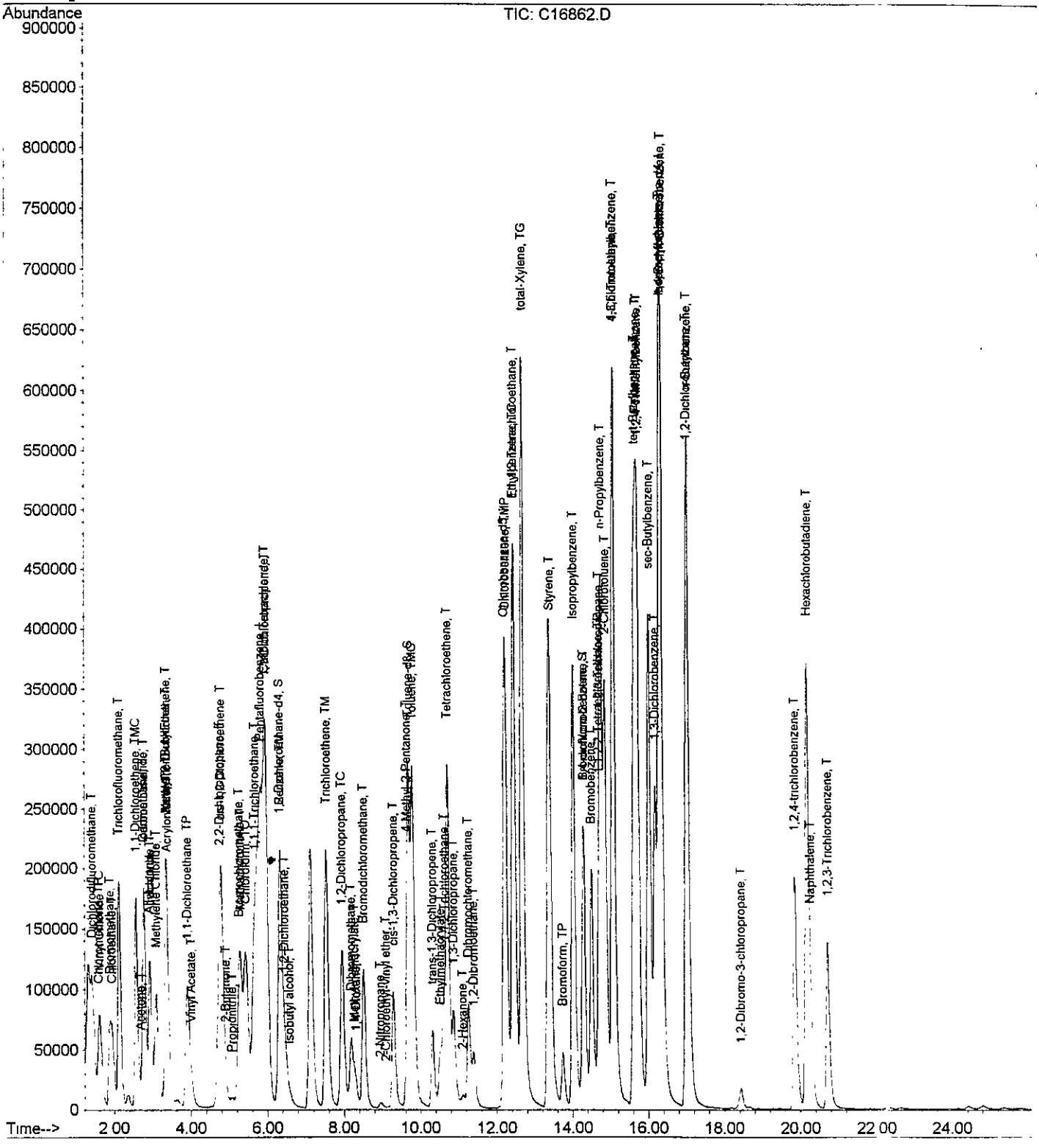
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
78)	Isopropyltoluene	16.31	119	918368	10.26	ug\L	100
79)	1,4-Dichlorobenzene	16.36	146	381512	10.12	ug\L	100
80)	1,2-Dichlorobenzene	17.00	146	277404	10.28	ug\L	99
81)	n-Butylbenzene	17.04	91	1027428	10.48	ug\L	98
82)	1,2-Dibromo-3-chloropropan	18.45	75	17959	9.58	ug\L	94
83)	1,2,4-trichlorobenzene	19.86	180	214392	10.61	ug\L	100
84)	Hexachlorobutadiene	20.19	225	265809	10.86	ug\L	100
85)	Naphthalene	20.28	128	183119	9.79	ug\L	100
86)	1,2,3-Trichlorobenzene	20.72	180	154388	10.57	ug\L	97

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

Quantitation Report

Data File : C:\HPCHEM\1\DATA\100300\C16862.D Vial: 11
Acq On : 3 Oct 2000 16:09 Operator: TAG/VR
Sample : AC00431MS 25ml DF=1 Inst : VOA-C
Misc : 25726/C10020025 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 3 16:35 2000 Quant Results File: 10030025.RES

Method : c:\hpchem\1\data\100300\10030025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Mon Oct 02 15:08:29 2000
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\100300\C16863.D Vial: 12
Acq On : 3 Oct 2000 16:39 Operator: TAG/VR
Sample : AC00431MSD 25ml DF=1 Inst : VOA-C
Misc : 25726/C10020025 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 3 17:06 2000 Quant Results File: 10030025.RES

Quant Method : c:\hpchem\1\data\100300\10030025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Mon Oct 02 15:08:29 2000
Response via : Initial Calibration
DataAcq Meth : 10030025

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Pentafluorobenzene	5.85	168	527878	10.00	ug\L		0.02
45) Chlorobenzene-d5	12.21	117	444874	10.00	ug\L		0.00
61) 1,4-Dichlorobenzene-d4	16.32	152	221335	10.00	ug\L		0.00
System Monitoring Compounds							
32) 1,2-Dichloroethane-d4	6.32	65	130731	9.81	ug\L		0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 98.10%				
46) Toluene-d8	9.70	98	698701	10.20	ug\L		0.02
Spiked Amount 10.000	Range 87 - 104		Recovery = 102.00%				
65) Bromofluorobenzene	14.30	95	341700	10.09	ug\L		0.00
Spiked Amount 10.000	Range 84 - 110		Recovery = 100.90%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.44	85	240147	9.06	ug\L		100
3) Chloromethane	1.60	50	137542	9.63	ug\L		96
4) Vinyl Chloride	1.65	62	187115	9.54	ug\L		99
5) Bromomethane	1.90	94	153106	8.92	ug\L		98
6) Chloroethane	1.98	64	107166	10.24	ug\L		96
7) Trichlorofluoromethane	2.15	101	438122	10.00	ug\L	#	100
8) Acrolein	3.36	56	9502	32.28	ug\L	#	46
9) Acrylonitrile	3.42	53	17462	19.38	ug\L		97
10) 1,1-Dichloroethene	2.58	96	198508	9.72	ug\L		98
11) Acetone	2.68	58	2736	11.03	ug\L	#	65
12) Iodomethane	2.77	142	319513	9.28	ug\L		99
13) Allylchloride	2.95	39	170653	10.41	ug\L	#	45
14) Carbon Disulfide	2.80	76	476116	9.69	ug\L		100
15) Acetonitrile	2.94	41	288626	110.31	ug\L		98
16) Methylene Chloride	3.12	86	92505	9.59	ug\L	#	24
17) trans-1,2-Dichloroethene	3.38	96	201295	9.65	ug\L		96
18) MethylTertButylEther	3.38	73	182477	10.23	ug\L		100
19) 1,1-Dichloroethane	3.91	63	361417	9.86	ug\L		99
20) Vinyl Acetate	4.01	43	104459	9.98	ug\L		97
21) 2,2-Dichloropropane	4.76	77	319225	9.76	ug\L		99
22) cis-1,2-Dichloroethene	4.82	96	192311	9.83	ug\L		98
23) 2-Butanone	4.92	72	1999	4.16	ug\L	#	1
24) Propionitrile	5.12	54	27898	97.01	ug\L	#	57
25) Methacrylonitrile	5.30	41	198067	102.52	ug\L		98
26) Bromochloromethane	5.26	128	67541	9.77	ug\L		100
27) Chloroform	5.45	83	381468	9.99	ug\L		99
28) 1,1,1-Trichloroethane	5.67	97	368494	9.77	ug\L	#	78
29) Carbon Tetrachloride	5.94	119	339976	9.97	ug\L	#	74
30) 1,4-Dioxane	8.31	88	6679	202.76	ug\L	#	65

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

Data File : C:\HPCHEM\1\DATA\100300\C16863.D Vial: 12
Acq On : 3 Oct 2000 16:39 Operator: TAG/VR
Sample : AC00431MSD 25ml DF=1 Inst : VOA-C
Misc : 25726/C10020025 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 3 17:06 2000 Quant Results File: 10030025.RES

Quant Method : c:\hpchem\1\data\100300\10030025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Mon Oct 02 15:08:29 2000
Response via : Initial Calibration
DataAcq Meth : 10030025

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
31)	1,1-Dichloropropene	5.98	77	115531	10.17	ug\L	#	1
33)	Benzene	6.35	78	591947	9.90	ug\L		100
34)	Isobutyl alcohol	6.58	43	22475	198.43	ug\L	#	73
35)	1,2-Dichloroethane	6.46	62	141444	10.02	ug\L		100
36)	Trichloroethene	7.54	95	295071	10.02	ug\L		99
37)	1,2-Dichloropropane	7.96	63	206678	10.30	ug\L	#	93
38)	Dibromomethane	8.19	93	85482	10.13	ug\L		93
39)	Methylmethacrylate	8.29	69	38241	10.26	ug\L		91
40)	Bromodichloromethane	8.52	83	287465	9.81	ug\L		98
41)	2-Nitropropane	8.97	43	8335	11.46	ug\L	#	100
42)	2-Chloroethyl-vinyl ether	9.18	63	66	2.11	ug\L	#	47
43)	cis-1,3-Dichloropropene	9.30	75	220737	10.27	ug\L		96
44)	4-Methyl-2-Pentanone	9.61	85	6487	6.56	ug\L	#	1
47)	Toluene	9.80	92	403580	9.80	ug\L		99
48)	trans-1,3-Dichloropropene	10.31	75	139237	9.65	ug\L		96
49)	Ethylmethacrylate	10.52	69	95111	10.45	ug\L	#	100
50)	1,1,2-Trichloroethane	10.62	83	91103	10.25	ug\L		92
51)	Tetrachloroethene	10.73	164	223141	9.65	ug\L		97
52)	1,3-Dichloropropane	10.90	76	164781	10.10	ug\L		99
53)	2-Hexanone	11.12	43	28099	12.35	ug\L	#	97
54)	Dibromochloromethane	11.28	129	155358	9.85	ug\L		97
55)	1,2-Dibromoethane	11.40	107	109808	10.13	ug\L		98
56)	Chlorobenzene	12.26	112	446572	9.91	ug\L		98
57)	1,1,1,2-Tetrachloroethane	12.44	131	191791	10.29	ug\L		98
58)	Ethylbenzene	12.47	91	843288	10.10	ug\L		100
59)	total-Xylene	12.68	106	892071m	30.12	ug\L		
60)	Styrene	13.42	104	432122	10.29	ug\L		100
62)	Bromoform	13.75	173	69727	9.89	ug\L		97
63)	Isopropylbenzene	14.03	105	985358	10.09	ug\L		99
64)	1,4-dichloro-2-Butene	14.30	75	190105	9.75	ug\L	#	100
66)	Bromobenzene	14.52	156	169321	10.17	ug\L		90
67)	1,1,2,2-Tetrachloroethane	14.69	83	114375	10.15	ug\L		99
68)	1,2,3-Trichloropropane	14.71	75	107137	10.05	ug\L	#	100
69)	n-Propylbenzene	14.76	91	1228646	10.65	ug\L		97
70)	2-Chlorotoluene	14.86	91	581857	9.25	ug\L		94
71)	4-Chlorotoluene	15.08	91	823601	10.39	ug\L		98
72)	1,3,5-Trimethylbenzene	15.09	105	741114	10.09	ug\L		89
73)	Pentachloroethane	15.68	167	123212	10.19	ug\L		97
74)	tert-Butylbenzene	15.64	119	931241	10.41	ug\L		99
75)	1,2,4-Trimethylbenzene	15.74	105	742151	10.35	ug\L		97
76)	sec-Butylbenzene	16.03	105	1195639	10.30	ug\L		100
77)	1,3-Dichlorobenzene	16.19	146	345800	10.31	ug\L		100

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

Data File : C:\HPCHEM\1\DATA\100300\C16863.D Vial: 12
Acq On : 3 Oct 2000 16:39 Operator: TAG/VR
Sample : AC00431MSD 25ml DF=1 Inst : VOA-C
Misc : 25726/C10020025 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 3 17:06 2000 Quant Results File: 10030025.RES

Quant Method : c:\hpchem\1\data\100300\10030025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Mon Oct 02 15:08:29 2000
Response via : Initial Calibration
DataAcq Meth : 10030025

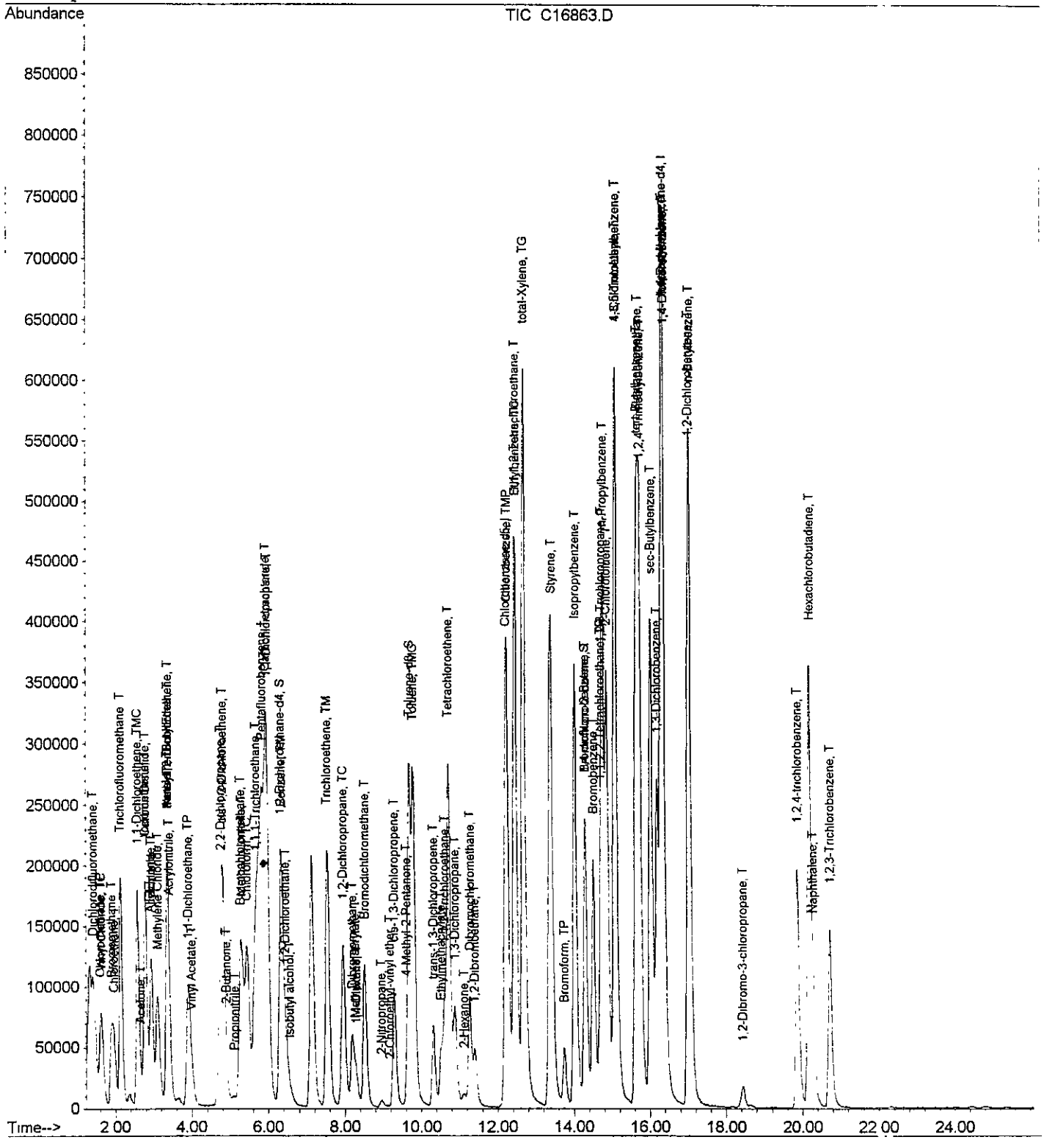
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
78)	Isopropyltoluene	16.31	119	911149	10.33	ug\L	100
79)	1,4-Dichlorobenzene	16.37	146	379184	10.21	ug\L	98
80)	1,2-Dichlorobenzene	17.00	146	278053	10.47	ug\L	98
81)	n-Butylbenzene	17.03	91	1003939	10.40	ug\L	99
82)	1,2-Dibromo-3-chloropropan	18.45	75	18968	10.26	ug\L	92
83)	1,2,4-trichlorobenzene	19.87	180	223127	11.21	ug\L	100
84)	Hexachlorobutadiene	20.19	225	261538	10.85	ug\L	100
85)	Naphthalene	20.29	128	202216	10.90	ug\L	100
86)	1,2,3-Trichlorobenzene	20.73	180	163405	11.36	ug\L	97

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

Quantitation Report

Data File : C:\HPCHEM\1\DATA\100300\C16863.D Vial: 12
Acq On : 3 Oct 2000 16:39 Operator: TAG/VR
Sample : AC00431MSD 25ml DF=1 Inst : VOA-C
Misc : 25726/C10020025 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 3 17:06 2000 Quant Results File: 10030025.RES

Method : c:\hpchem\1\data\100300\10030025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Mon Oct 02 15:08:29 2000
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\100300\C16861.D Vial: 10
Acq On : 3 Oct 2000 15:38 Operator: TAG/VR
Sample : AC00431 25ml DF=1 Inst : VOA-C
Misc : 25726/C10020025 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 3 16:05 2000 Quant Results File: 10030025.RES

Quant Method : c:\hpchem\1\data\100300\10030025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Mon Oct 02 15:08:29 2000
Response via : Initial Calibration
DataAcq Meth : 10030025

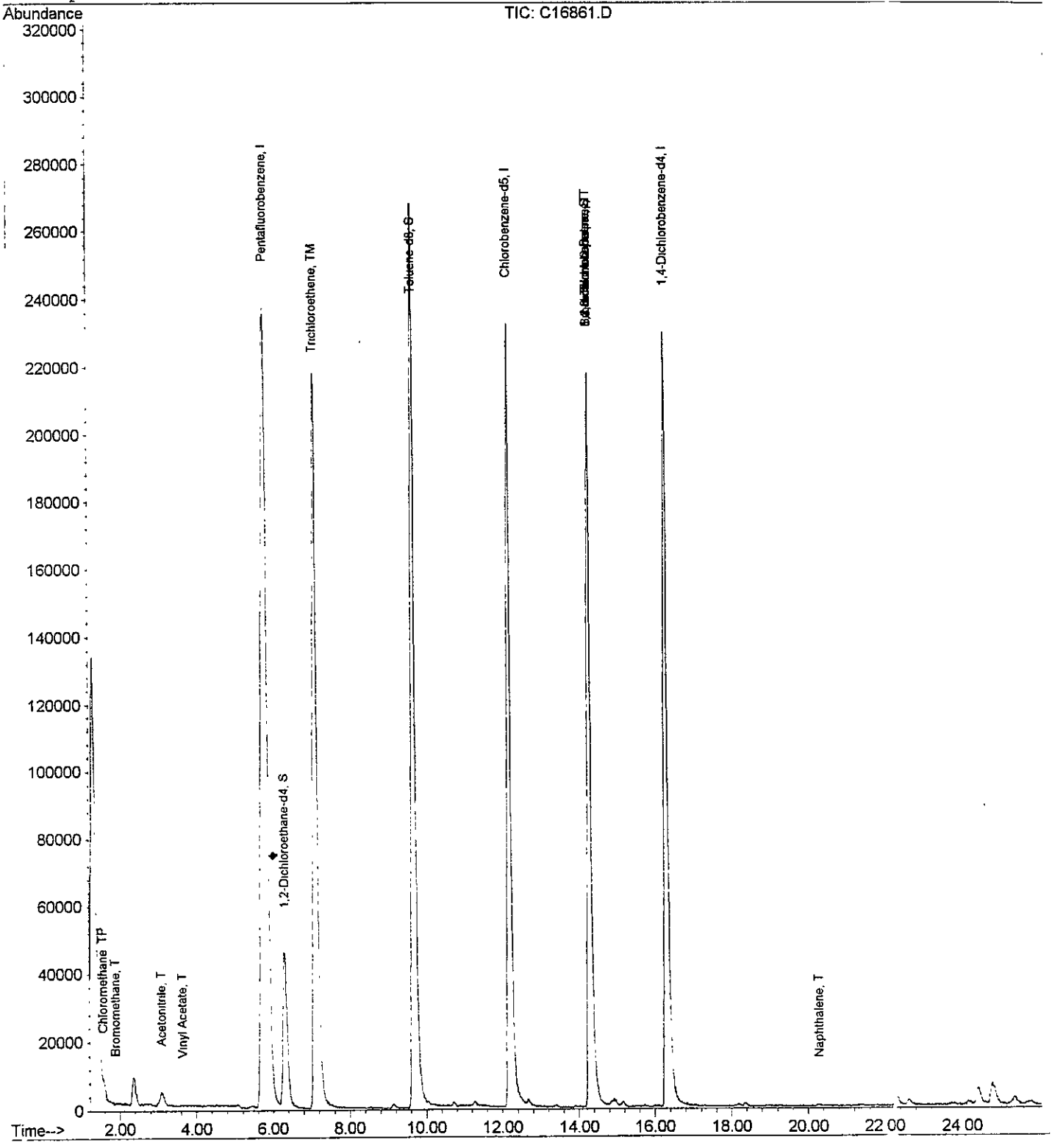
Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Pentafluorobenzene	5.84	168	552652	10.00	ug\L		0.02
45) Chlorobenzene-d5	12.21	117	469967	10.00	ug\L		0.00
61) 1,4-Dichlorobenzene-d4	16.32	152	226263	10.00	ug\L		0.00
System Monitoring Compounds							
32) 1,2-Dichloroethane-d4	6.33	65	125057	8.96	ug\L		0.02
Spiked Amount 10.000	Range 80 - 120		Recovery = 89.60%				
46) Toluene-d8	9.69	98	688625	9.52	ug\L		0.00
Spiked Amount 10.000	Range 87 - 104		Recovery = 95.20%				
65) Bromofluorobenzene	14.30	95	338153	9.76	ug\L		0.00
Spiked Amount 10.000	Range 84 - 110		Recovery = 97.60%				
Target Compounds							Qvalue
3) Chloromethane	1.59	50	7653	0.51	ug\L		99
5) Bromomethane	1.90	94	60	176.17	ug\L	#	3
8) Acrolein	3.15	56	70	-0.69	ug\L	#	19
15) Acetonitrile	3.12	41	7153	13.35	ug\L	#	42
16) Methylene Chloride	3.09	86	759	-0.60	ug\L	#	2
20) Vinyl Acetate	3.64	43	194	0.68	ug\L	#	73
36) Trichloroethene	7.11	95	18187	0.59	ug\L	#	9
64) 1,4-dichloro-2-Butene	14.31	75	175437	8.78	ug\L	#	100
68) 1,2,3-Trichloropropane	14.31	75	168198	15.44	ug\L	#	100
85) Naphthalene	20.30	128	2423	0.73	ug\L		100

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

Quantitation Report

Data File : C:\HPCHEM\1\DATA\100300\C16861.D Vial: 10
Acq On : 3 Oct 2000 15:38 Operator: TAG/VR
Sample : AC00431 25ml DF=1 Inst : VOA-C
Misc : 25726/C10020025 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 3 16:05 2000 Quant Results File: 10030025.RES

Method : c:\hpchem\1\data\100300\10030025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Mon Oct 02 15:08:29 2000
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\100300\C16854.D Vial: 3
Acq On : 3 Oct 2000 11:51 Operator: TAG/VR
Sample : WATER BLANK SPIKE 25ml DF=1 Inst : VOA-C
Misc : QC Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 3 12:18 2000 Quant Results File: 10030025.RES

Quant Method : C:\HPCHEM\1\DATA\100300\10030025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Mon Oct 02 15:08:29 2000
Response via : Initial Calibration
DataAcq Meth : 10030025

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Pentafluorobenzene	5.82	168	525990	10.00	ug\L		-0.01
45) Chlorobenzene-d5	12.20	117	443578	10.00	ug\L		-0.01
61) 1,4-Dichlorobenzene-d4	16.32	152	221632	10.00	ug\L		0.00
System Monitoring Compounds							
32) 1,2-Dichloroethane-d4	6.32	65	130323	9.82	ug\L		0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 98.20%				
46) Toluene-d8	9.69	98	680372	9.96	ug\L		0.00
Spiked Amount 10.000	Range 87 - 104		Recovery = 99.60%				
65) Bromofluorobenzene	14.30	95	348116	10.26	ug\L		0.00
Spiked Amount 10.000	Range 84 - 110		Recovery = 102.60%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.43	85	239148	9.06	ug\L		100
3) Chloromethane	1.59	50	128332	9.02	ug\L		99
4) Vinyl Chloride	1.63	62	191298	9.78	ug\L		100
5) Bromomethane	1.88	94	161422	9.51	ug\L		99
6) Chloroethane	1.97	64	110405	10.59	ug\L		96
7) Trichlorofluoromethane	2.13	101	436351	9.99	ug\L	#	100
8) Acrolein	3.36	56	9918	33.85	ug\L	#	84
9) Acrylonitrile	3.40	53	16376	18.24	ug\L	#	37
10) 1,1-Dichloroethene	2.58	96	202751	9.96	ug\L		99
11) Acetone	2.67	58	2436	9.86	ug\L		94
12) Iodomethane	2.76	142	311988	9.09	ug\L		100
13) Allylchloride	2.93	39	163053	9.98	ug\L	#	45
14) Carbon Disulfide	2.78	76	487233	9.95	ug\L		100
15) Acetonitrile	2.94	41	279628	107.56	ug\L		97
16) Methylene Chloride	3.09	86	95256	9.93	ug\L	#	25
17) trans-1,2-Dichloroethene	3.36	96	206531	9.93	ug\L		97
18) MethylTertButylEther	3.34	73	176912	9.95	ug\L		98
19) 1,1-Dichloroethane	3.90	63	363166	9.94	ug\L		99
20) Vinyl Acetate *	4.01	43	106551	10.20	ug\L		96
21) 2,2-Dichloropropane	4.75	77	300903	9.23	ug\L	#	55
22) cis-1,2-Dichloroethene	4.82	96	196622	10.08	ug\L		100
23) 2-Butanone	4.90	72	3722	7.77	ug\L	#	94
24) Propionitrile	5.10	54	15747	55.45	ug\L	#	79
25) Methacrylonitrile	5.29	41	195261	101.43	ug\L		98
26) Bromochloromethane	5.25	128	69003	10.02	ug\L		99
27) Chloroform	5.44	83	386423	10.15	ug\L		100
28) 1,1,1-Trichloroethane	5.66	97	377224	10.04	ug\L	#	73
29) Carbon Tetrachloride	5.93	119	318614	9.38	ug\L	#	72
30) 1,4-Dioxane	8.31	88	6550	199.77	ug\L	#	51

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

Data File : C:\HPCHEM\1\DATA\100300\C16854.D Vial: 3
Acq On : 3 Oct 2000 11:51 Operator: TAG/VR
Sample : WATER BLANK SPIKE 25ml DF=1 Inst : VOA-C
Misc : QC Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 3 12:18 2000 Quant Results File: 10030025.RES

Quant Method : C:\HPCHEM\1\DATA\100300\10030025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Mon Oct 02 15:08:29 2000
Response via : Initial Calibration
DataAcq Meth : 10030025

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
31)	1,1-Dichloropropene	5.96	77	108665	9.60	ug\L	#	1
33)	Benzene	6.34	78	597455	10.03	ug\L		100
34)	Isobutyl alcohol	6.58	43	23155	205.16	ug\L		94
35)	1,2-Dichloroethane	6.47	62	140680	10.00	ug\L		98
36)	Trichloroethene	7.53	95	290407	9.89	ug\L		97
37)	1,2-Dichloropropane	7.96	63	202109	10.11	ug\L	#	95
38)	Dibromomethane	8.18	93	84956	10.11	ug\L		94
39)	Methylmethacrylate	8.29	69	36672	9.87	ug\L	#	32
40)	Bromodichloromethane	8.51	83	285436	9.78	ug\L		99
41)	2-Nitropropane	8.95	43	7192	9.93	ug\L	#	100
42)	2-Chloroethyl-vinyl ether	9.12	63	16944	7.89	ug\L		98
43)	cis-1,3-Dichloropropene	9.30	75	219978	10.27	ug\L		95
44)	4-Methyl-2-Pentanone	9.64	85	6464	6.56	ug\L	#	42
47)	Toluene	9.80	92	407429	9.93	ug\L		100
48)	trans-1,3-Dichloropropene	10.31	75	135848	9.46	ug\L		97
49)	Ethylmethacrylate	10.53	69	95768	10.55	ug\L	#	95
50)	1,1,2-Trichloroethane	10.62	83	90460	10.21	ug\L		94
51)	Tetrachloroethene	10.72	164	223452	9.69	ug\L		98
52)	1,3-Dichloropropane	10.87	76	167307	10.29	ug\L		99
53)	2-Hexanone	11.11	43	24345	10.73	ug\L		93
54)	Dibromochloromethane	11.28	129	156884	9.97	ug\L		100
55)	1,2-Dibromoethane	11.40	107	110403	10.22	ug\L		99
56)	Chlorobenzene	12.25	112	459856	10.23	ug\L		99
57)	1,1,1,2-Tetrachloroethane	12.43	131	189087	10.18	ug\L		98
58)	Ethylbenzene	12.47	91	843514	10.13	ug\L		100
59)	total-Xylene	12.68	106	904101m	30.61	ug\L		
60)	Styrene	13.41	104	430600	10.28	ug\L		99
62)	Bromoform	13.74	173	69902	9.90	ug\L	#	97
63)	Isopropylbenzene	14.02	105	977755	10.00	ug\L		99
64)	1,4-dichloro-2-Butene	14.29	75	190130	9.74	ug\L	#	100
66)	Bromobenzene	14.50	156	172918	10.38	ug\L		84
67)	1,1,2,2-Tetrachloroethane	14.68	83	114134	10.11	ug\L		99
68)	1,2,3-Trichloropropane	14.70	75	89089	8.35	ug\L	#	100
69)	n-Propylbenzene	14.75	91	1115814	9.66	ug\L		99
70)	2-Chlorotoluene	14.86	91	603514	9.58	ug\L		96
71)	4-Chlorotoluene	15.08	91	821462	10.35	ug\L		98
72)	1,3,5-Trimethylbenzene	15.08	105	751612	10.22	ug\L		89
73)	Pentachloroethane	15.68	167	121265	10.03	ug\L		98
74)	tert-Butylbenzene	15.64	119	920129	10.27	ug\L		99
75)	1,2,4-Trimethylbenzene	15.73	105	728970	10.15	ug\L		99
76)	sec-Butylbenzene	16.02	105	1193129	10.27	ug\L		100
77)	1,3-Dichlorobenzene	16.19	146	343936	10.24	ug\L		99

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

Data File : C:\HPCHEM\1\DATA\100300\C16854.D
Acq On : 3 Oct 2000 11:51
Sample : WATER BLANK SPIKE 25ml DF=1
Misc : QC
MS Integration Params: rteint.p
Quant Time: Oct 3 12:18 2000

Vial: 3
Operator: TAG/VR
Inst : VOA-C
Multiplr: 1.00
Quant Results File: 10030025.RES

Quant Method : C:\HPCHEM\1\DATA\100300\10030025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Mon Oct 02 15:08:29 2000
Response via : Initial Calibration
DataAcq Meth : 10030025

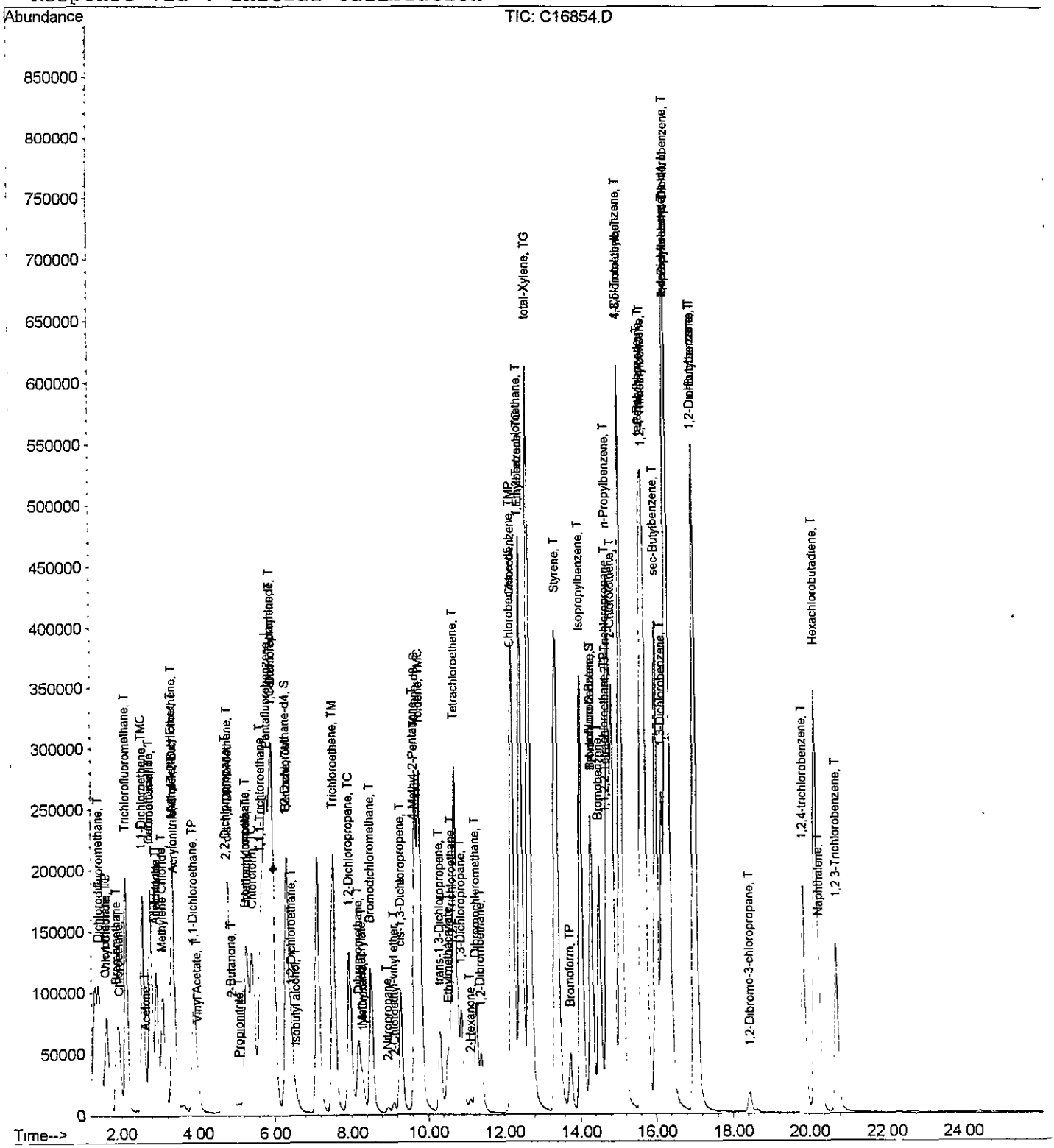
	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
78)	Isopropyltoluene	16.31	119	888949	10.07 ug\L	99
79)	1,4-Dichlorobenzene	16.35	146	376957	10.14 ug\L	99
80)	1,2-Dichlorobenzene	17.00	146	275847	10.37 ug\L	99
81)	n-Butylbenzene	17.03	91	988122	10.22 ug\L	98
82)	1,2-Dibromo-3-chloropropan	18.45	75	18216	9.85 ug\L	91
83)	1,2,4-trichlorobenzene	19.86	180	208926	10.49 ug\L	100
84)	Hexachlorobutadiene	20.17	225	252327	10.46 ug\L	100
85)	Naphthalene	20.28	128	183926	9.96 ug\L	100
86)	1,2,3-Trichlorobenzene	20.72	180	151714	10.53 ug\L	98

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

Quantitation Report

Data File : C:\HPCHEM\1\DATA\100300\C16854.D Vial: 3
Acq On : 3 Oct 2000 11:51 Operator: TAG/VR
Sample : WATER BLANK SPIKE 25ml DF=1 Inst : VOA-C
Misc : QC Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 3 12:18 2000 Quant Results File: 10030025.RES

Method : C:\HPCHEM\1\DATA\100300\10030025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Mon Oct 02 15:08:29 2000
Response via : Initial Calibration



VOA GC/MS CALIBRATION CHECKLIST
SW-846-8260B

DATE / INSTRUMENT: 10/02/2000 / C	METHOD: 8260B
MATRIX: water — 25 ml	

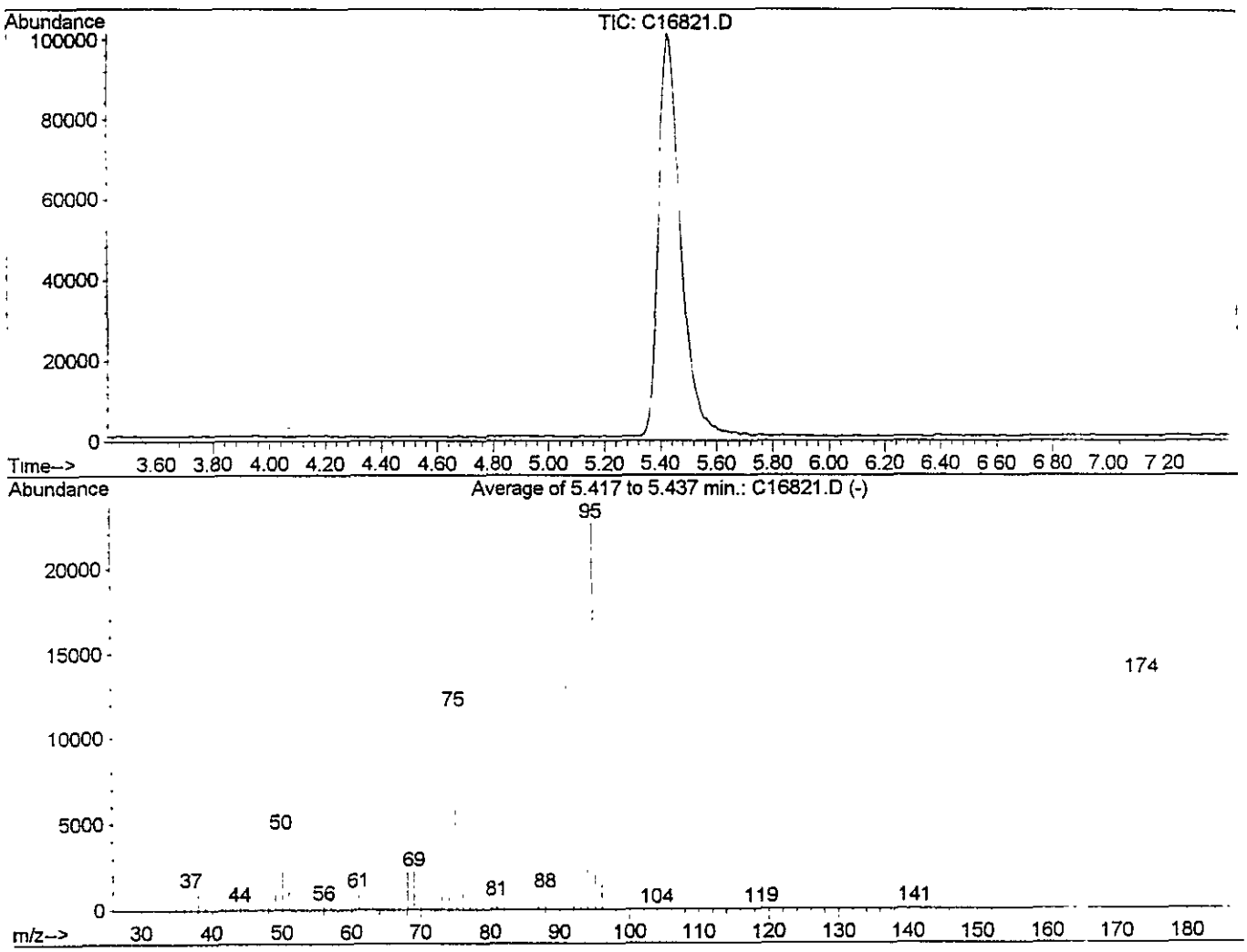
Are all standards within expiration dates for both stock and serial standards?	(Y)	N	NA
Are Tuning results compliant with method?	(Y)	N	NA
Are all Initial Calibration RSDs compliant for CCCs and non-CCC compounds?	(Y)	N	NA
If RSDs are non-compliant, was initial calibration curve constructed using one of the alternative methods from method 8000B? (List analytes below)	(Y)	N	NA

Is the runlog completely filled out (including review signature/date)?	Y	N	NA
Are all mistakes single lined, initialled, and dated?	Y	N	NA

Analyst: VR	Reviewer: Thomas G. Gale
Date: 10/02/00 Time: 16:00	Date: 10/9/2000 Time: 8:50

BFB

Data File : C:\HPCHEM\1\DATA\100200\C16821.D Vial: 1
Acq On : 2 Oct 2000 8:24 Operator: TAG/VR
Sample : BFB 50ng V00048 Inst : VOA-C
Misc : QC Multiplr: 1.00
MS Integration Params: rteint.p
Method : C:\HPCHEM\1\METHODS\BFB01.M (RTE Integrator)
Title :



AutoFind: Scans 426, 427, 428; Background Corrected with Scan 415

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	19.5	4450	PASS
75	95	30	60	50.9	11627	PASS
95	95	100	100	100.0	22853	PASS
96	95	5	9	7.0	1593	PASS
173	174	0.00	2	0.3	34	PASS
174	95	50	100	59.1	13502	PASS
175	174	5	9	6.7	911	PASS
176	174	95	101	99.0	13364	PASS
177	176	5	9	6.8	903	PASS

C16821.D BFB01.M Mon Oct 02 08:37:00 2000 RPT1

Dichlorodifluoromet	0.47	0.523	0.529	0.525	0.478	0.488	0.502	5.23
Chloromethane	0.319	0.271	0.27	0.265	0.246	0.253	0.271	9.5
Vinyl Chloride	0.344	0.388	0.398	0.385	0.354	0.361	0.372	5.76
Bromomethane	0.473	0.363	0.321	0.299	0.267	0.254	0.329	24.39
Chloroethane	0.163	0.225	0.222	0.207	0.194	0.178	0.198	12.3
Trichlorofluorometh	0.676	0.898	0.893	0.876	0.812	0.827	0.83	10.04
Acrolein	0.002	0.006	0.006	0.006	0.005	0.006	0.005	28.88
Acrylonitrile	0.018	0.017	0.018	0.019	0.015	0.016	0.017	8.14
1,1-Dichloroethene	0.359	0.4	0.407	0.402	0.377	0.378	0.387	4.84
Acetone		0.005	0.005	0.005	0.004	0.005	0.005	9.73
Iodomethane	0.698	0.519	0.674	0.689	0.665	0.67	0.652	10.19
Allylchloride	0.261	0.311	0.328	0.328	0.311	0.325	0.311	8.28
Carbon Disulfide	0.678	0.949	1.023	1.005	0.961	0.972	0.931	13.65
Acetonitrile	0.013	0.01	0.057	0.056	0.051	0.053	0.04	55.31
Methylene Chloride	0.211	0.193	0.188	0.189	0.165	0.176	0.187	8.41
trans-1,2-Dichloroe	0.37	0.403	0.414	0.408	0.39	0.388	0.395	4.08
MethylTertButylEthe	0.306	0.339	0.357	0.373	0.304	0.348	0.338	8.29
1,1-Dichloroethane	0.643	0.711	0.733	0.723	0.67	0.688	0.695	4.94
Vinyl Acetate	0.126	0.192	0.197	0.208	0.192	0.217	0.189	17.12
2,2-Dichloropropane	0.443	0.619	0.658	0.658	0.67	0.671	0.62	14.35
cis-1,2-Dichloroeth	0.351	0.376	0.388	0.385	0.358	0.366	0.371	4.05
2-Butanone		0.007	0.009	0.01	0.009	0 01	0.009	13.2
Propionitrile	0.004	0.005	0.006	0.006	0.005	0.006	0.005	16.77
Methacrylonitrile	0.031	0.038	0.039	0.041	0.034	0.038	0 037	9.39
Bromochloromethane	0.117	0.134	0 139	0.14	0.123	0.133	0.131	6.91
Chloroform	0.644	0.74	0.757	0.765	0.707	0.728	0.723	6.12
1,1,1-Trichloroetha	0.623	0.718	0.739	0.749	0.727	0.731	0.715	6.47
Carbon Tetrachlorid	0.551	0.638	0.681	0.682	0.651	0.672	0.646	7.71
1,4-Dioxane	0	0.001	0.001	0.001	0.001	0.001	0.001	37.72
1,1-Dichloropropene	0.196	0.228	0.228	0.223	0.205	0.211	0.215	6.14
1,2-Dichloroethane-	0.283	0.251	0 257	0.255	0.218	0.25	0.252	8.29
Benzene	1.098	1.168	1.19	1.177	1.049	1.114	1.133	4.84
Isobutyl alcohol	0.001	0.002	0.002	0.002	0.002	0.002	0.002	17.24
1,2-Dichloroethane	0.241	0.271	0.287	0.292	0.239	0.276	0 268	8.43
Trichloroethene	0.542	0.562	0.58	0.575	0.536	0.553	0.558	3.12
1,2-Dichloropropane	0.352	0.383	0.397	0.406	0.353	0.388	0 38	5.93
Dibromomethane	0.133	0.163	0.17	0.176	0.148	0.169	0.16	10.12
Methylmethacrylate	0.056	0.069	0.076	0.083	0.065	0.076	0.071	13.56
Bromodichloromethan	0.369	0.524	0.562	0.592	0.531	0.579	0.526	15.51
2-Nitropropane	0.011	0.013	0.013	0.016	0.014	0.016	0.014	14.81
2-Chloroethyl-vinyl		0.026	0.042	0.055	0.047	0.054	0.045	26.13
cis-1 3-Dichloropro	0.308	0 394	0 428	0.454	0.408	0.452	0.407	13.33
4-Methyl-2-Pentanon	0 018	0.02	0.022	0.016	0.011	0 024	0.018	25.08
Toluene-d8	1.75	1.537	1.539	1.461	1.508	1.442	1 54	7.17
Toluene	0.883	0.954	0.943	0.931	0.956	0.885	0.925	3.56
trans-1,3-Dichlorop	0.217	0.295	0.321	0.339	0.328	0.343	0 307	15.38
Ethylmethacrylate	0.166	0.202	0.209	0.224	0.208	0 219	0.205	10
1 1 2-Trichloroetha	0.17	0.212	0.211	0.213	0.189	0.204	0 2	8.56
Tetrachloroethene	0.571	0 52	0.514	0.511	0.524	0.479	0 52	5.72
1,3-Dichloropropane	0.326	0.383	0 383	0.385	0.357	0.366	0 367	6 29
2-Hexanone	0.042	0.05	0 055	0.057	0.048	0.054	0.051	10.53

Dibromochloromethan	0.202	0.335	0.351	0.371	0.358	0.369	0.331	19.54
1,2-Dibromoethane	0.195	0.251	0.255	0.264	0.242	0.257	0.244	10.32
Chlorobenzene	0.952	1.042	1.03	1.045	1.023	0.987	1.013	3.6
1,1,1,2-Tetrachloro	0.359	0.419	0.431	0.444	0.432	0.427	0.419	7.26
Ethylbenzene	1.751	1.941	1.924	1.921	1.919	1.808	1.877	4.17
total-Xylene	0.598	0.69	0.687	0.69	0.684	0.647	0.666	5.6
Styrene	0.82	0.967	0.978	0.998	0.964	0.938	0.944	6.76
Bromoform	0.121	0.261	0.308	0.337	0.337	0.353	0.286	30.48
Isopropylbenzene	3.827	4.482	4.565	4.453	4.758	4.376	4.41	7.12
1,4-dichloro-2-Bute	1.645	0.849	0.871	0.837	0.874	0.868	0.991	32.37
Bromofluorobenzene		1.543	1.566	1.495	1.53	1.521	1.531	1.7
Bromobenzene	0.604	0.768	0.787	0.785	0.792	0.776	0.752	9.69
1,1,2,2-Tetrachloro	0.307	0.5	0.521	0.537	0.491	0.511	0.478	17.85
1,2,3-Trichloroprop	0.436	0.369	0.579	0.509	0.488	0.507	0.481	14.92
n-Propylbenzene	4.38	5.266	5.566	5.238	5.63	5.181	5.21	8.57
2-Chlorotoluene	2.448	3.237	2.825	2.917	2.879	2.74	2.841	9.02
4-Chlorotoluene	3.02	3.652	3.774	3.689	3.792	3.566	3.582	8.03
1,3,5-Trimethylbenz	2.78	3.422	3.457	3.387	3.543	3.318	3.318	8.26
Pentachloroethane	0.26	0.501	0.546	0.561	0.568	0.567	0.5	24.07
tert-Butylbenzene	3.303	4.098	4.252	4.14	4.406	4.047	4.041	9.49
1,2,4-Trimethylbenz	2.799	3.311	3.384	3.331	3.406	3.205	3.239	7
sec-Butylbenzene	4.289	5.371	5.479	5.358	5.719	5.246	5.244	9.43
1,3-Dichlorobenzene	1.324	1.566	1.53	1.549	1.598	1.527	1.516	6.43
Isopropyltoluene	3.403	3.992	4.127	4.078	4.349	3.951	3.983	7.95
1.4-Dichlorobenzene	1.483	1.733	1.783	1.712	1.705	1.648	1.677	6.23
1,2-Dichlorobenzene	1.035	1.248	1.256	1.239	1.218	1.207	1 2	6.92
n-Butylbenzene	3.659	4.432	4.589	4.481	4.691	4.318	4.362	8.42
1,2-Dibromo-3-chlor	0.055	0.073	0.081	0.092	0.082	0.086	0.078	16.28
1,2,4-trichlorobenz	0.711	0.9	0.933	0.961	0.939	0.951	0 899	10.51
Hexachlorobutadiene	0.939	1.124	1.129	1.13	1.156	1.056	1.089	7.4
Naphthalene	0.544	0.752	0.82	0.876	0.837	0.89	0 786	16 3
1,2,3-Trichlorobenz	0.509	0.653	0.684	0.703	0.669	0.682	0 65	10.96

AVERAGE REPONSE FACTOR: 11.61639

Response Factor Report VOA-C

Method : C:\HPCHEM\1\DATA\100200\10020025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Mon Oct 02 14:27:25 2000
Response via : Initial Calibration

Calibration Files
1 =C16822.D 4 =C16823.D 10 =C16824.D
20 =C16825.D 30 =C16826.D 40 =C16827.D

		Compound	1	4	10	20	30	40	Avg	%RSD
1)	I	Pentafluorobenzene	----------	----------	ISTD	----------	----------	----------		
2)	T	Dichlorodifluoromet	0.470	0.523	0.529	0.525	0.478	0.488	0.502	5.23
3)	TP	Chloromethane	0.319	0.271	0.270	0.265	0.246	0.253	0.271	9.50
4)	TC	Vinyl Chloride	0.344	0.388	0.398	0.385	0.354	0.361	0.372	5.76
5)	T	Bromomethane	0.473	0.363	0.321	0.299	0.267	0.254	0.329	24.39
6)	T	Chloroethane	0.163	0.225	0.222	0.207	0.194	0.178	0.198	12.30
7)	T	Trichlorofluorometh	0.676	0.898	0.893	0.876	0.812	0.827	0.830	10.04
8)	T	Acrolein	0.002	0.006	0.006	0.006	0.005	0.006	0.005	28.88
9)	T	Acrylonitrile	0.018	0.017	0.018	0.019	0.015	0.016	0.017	8.14
10)	TMC	1,1-Dichloroethene	0.359	0.400	0.407	0.402	0.377	0.378	0.387	4.84
11)	T	Acetone		0.005	0.005	0.005	0.004	0.005	0.005	9.73
12)	T	Iodomethane	0.698	0.519	0.674	0.689	0.665	0.670	0.652	10.19
13)	T	Allylchloride	0.261	0.311	0.328	0.328	0.311	0.325	0.311	8.28
14)	T	Carbon Disulfide	0.678	0.949	1.023	1.005	0.961	0.972	0.931	13.65
15)	T	Acetonitrile	0.013	0.010	0.057	0.056	0.051	0.053	0.040	55.31
16)	T	Methylene Chloride	0.211	0.193	0.188	0.189	0.165	0.176	0.187	8.41
17)	T	trans-1,2-Dichloroe	0.370	0.403	0.414	0.408	0.390	0.388	0.395	4.08
18)	T	MethylTertButylEthe	0.306	0.339	0.357	0.373	0.304	0.348	0.338	8.29
19)	TP	1,1-Dichloroethane	0.643	0.711	0.733	0.723	0.670	0.688	0.695	4.94
20)	T	Vinyl Acetate	0.126	0.192	0.197	0.208	0.192	0.217	0.189	17.12
21)	T	2,2-Dichloropropane	0.443	0.619	0.658	0.658	0.670	0.671	0.620	14.35
22)	T	cis-1,2-Dichloroeth	0.351	0.376	0.388	0.385	0.358	0.366	0.371	4.05
23	T	2-Butanone		0.007	0.009	0.010	0.009	0.010	0.009	13.20
24	T	Propionitrile	0.004	0.005	0.006	0.006	0.005	0.006	0.005	16.77
25)	T	Methacrylonitrile	0.031	0.038	0.039	0.041	0.034	0.038	0.037	9.39
26)	T	Bromochloromethane	0.117	0.134	0.139	0.140	0.123	0.133	0.131	6.91
27)	TC	Chloroform	0.644	0.740	0.757	0.765	0.707	0.728	0.723	6.12
28)	T	1,1,1-Trichloroetha	0.623	0.718	0.739	0.749	0.727	0.731	0.715	6.47
29)	T	Carbon Tetrachlorid	0.551	0.638	0.681	0.682	0.651	0.672	0.646	7.71
30)	T	1,4-Dioxane	0.000	0.001	0.001	0.001	0.001	0.001	0.001	37.72
31)	T	1,1-Dichloropropene	0.196	0.228	0.228	0.223	0.205	0.211	0.215	6.14
32)	S	1,2-Dichloroethane-	0.283	0.251	0.257	0.255	0.218	0.250	0.252	8.29
33)	TM	Benzene	1.098	1.168	1.190	1.177	1.049	1.114	1.133	4.84
34)	T	Isobutyl alcohol	0.001	0.002	0.002	0.002	0.002	0.002	0.002	17.24
35)	T	1,2-Dichloroethane	0.241	0.271	0.287	0.292	0.239	0.276	0.268	8.43
36	TM	Trichloroethene	0.542	0.562	0.580	0.575	0.536	0.553	0.558	3.12
37	TC	1,2-Dichloropropane	0.352	0.383	0.397	0.406	0.353	0.388	0.380	5.93
38)	T	Dibromomethane	0.133	0.163	0.170	0.176	0.148	0.169	0.160	10.12
39)	T	Methylmethacrylate	0.056	0.069	0.076	0.083	0.065	0.076	0.071	13.56
40)	T	Bromodichloromethan	0.369	0.524	0.562	0.592	0.531	0.579	0.526	15.51
41	T	2-Nitropropane	0.011	0.013	0.013	0.016	0.014	0.016	0.014	14.81
42	T	2-Chloroethyl-vinyl		0.026	0.042	0.055	0.047	0.054	0.045	26.13
43	T	cis-1,3-Dichloropro	0.308	0.394	0.428	0.454	0.408	0.452	0.407	13.33
44)	T	4-Methyl-2-Pentanon	0.018	0.020	0.022	0.016	0.011	0.024	0.018	25.08

= Out of Range

Method : C:\HPCHEM\1\DATA\100200\10020025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Mon Oct 02 14:27:25 2000
Response via : Initial Calibration

Calibration Files
1 =C16822.D 4 =C16823.D 10 =C16824.D
20 =C16825.D 30 =C16826.D 40 =C16827.D

		Compound	1	4	10	20	30	40	Avg	%RSD
45)	I	Chlorobenzene-d5	----------ISTD----------							
46)	S	Toluene-d8	1.750	1.537	1.539	1.461	1.508	1.442	1.540	7.17
47)	TMC	Toluene	0.883	0.954	0.943	0.931	0.956	0.885	0.925	3.56
48)	T	trans-1,3-Dichlorop	0.217	0.295	0.321	0.339	0.328	0.343	0.307	15.38
49)	T	Ethylmethacrylate	0.166	0.202	0.209	0.224	0.208	0.219	0.205	10.00
50)	T	1,1,2-Trichloroetha	0.170	0.212	0.211	0.213	0.189	0.204	0.200	8.56
51)	T	Tetrachloroethene	0.571	0.520	0.514	0.511	0.524	0.479	0.520	5.72
52)	T	1,3-Dichloropropane	0.326	0.383	0.383	0.385	0.357	0.366	0.367	6.29
53)	T	2-Hexanone	0.042	0.050	0.055	0.057	0.048	0.054	0.051	10.53
54)	T	Dibromochloromethan	0.202	0.335	0.351	0.371	0.358	0.369	0.331	19.54
55)	T	1,2-Dibromoethane	0.195	0.251	0.255	0.264	0.242	0.257	0.244	10.32
56)	TMP	Chlorobenzene	0.952	1.042	1.030	1.045	1.023	0.987	1.013	3.60
57)	T	1,1,1,2-Tetrachloro	0.359	0.419	0.431	0.444	0.432	0.427	0.419	7.26
58)	TC	Ethylbenzene	1.751	1.941	1.924	1.921	1.919	1.808	1.877	4.17
59)	TG	total-Xylene	0.598	0.690	0.687	0.690	0.684	0.647	0.666	5.60
60)	T	Styrene	0.820	0.967	0.978	0.998	0.964	0.938	0.944	6.76
61)	I	1,4-Dichlorobenzene-d	----------ISTD----------							
62)	TP	Bromoform	0.121	0.261	0.308	0.337	0.337	0.353	0.286	30.48
63)	T	Isopropylbenzene	3.827	4.482	4.565	4.453	4.758	4.376	4.410	7.12
64)	T	1,4-dichloro-2-Bute	1.645	0.849	0.871	0.837	0.874	0.868	0.991	32.37
65)	S	Bromofluorobenzene		1.543	1.566	1.495	1.530	1.521	1.531	1.70
66)	T	Bromobenzene	0.604	0.768	0.787	0.785	0.792	0.776	0.752	9.69
67)	TP	1,1,2,2-Tetrachloro	0.307	0.500	0.521	0.537	0.491	0.511	0.478	17.85
68)	T	1,2,3-Trichloroprop	0.436	0.369	0.579	0.509	0.488	0.507	0.481	14.92
69)	T	n-Propylbenzene	4.380	5.266	5.566	5.238	5.630	5.181	5.210	8.57
70)	T	2-Chlorotoluene	2.448	3.237	2.825	2.917	2.879	2.740	2.841	9.02
71)	T	4-Chlorotoluene	3.020	3.652	3.774	3.689	3.792	3.566	3.582	8.03
72)	T	1,3,5-Trimethylbenz	2.780	3.422	3.457	3.387	3.543	3.318	3.318	8.26
73)	T	Pentachloroethane	0.260	0.501	0.546	0.561	0.568	0.567	0.500	24.07
74)	T	tert-Butylbenzene	3.303	4.098	4.252	4.140	4.406	4.047	4.041	9.49
75)	T	1,2,4-Trimethylbenz	2.799	3.311	3.384	3.331	3.406	3.205	3.239	7.00
76)	T	sec-Butylbenzene	4.289	5.371	5.479	5.358	5.719	5.246	5.244	9.43
77)	T	1,3-Dichlorobenzene	1.324	1.566	1.530	1.549	1.598	1.527	1.516	6.43
78)	T	Isopropyltoluene	3.403	3.992	4.127	4.078	4.349	3.951	3.983	7.95
79)	T	1,4-Dichlorobenzene	1.483	1.733	1.783	1.712	1.705	1.648	1.677	6.23
80)	T	1,2-Dichlorobenzene	1.035	1.248	1.256	1.239	1.218	1.207	1.200	6.92
81)	T	n-Butylbenzene	3.659	4.432	4.589	4.481	4.691	4.318	4.362	8.42
82)	T	1,2-Dibromo-3-chlor	0.055	0.073	0.081	0.092	0.082	0.086	0.078	16.28
83)	T	1,2,4-trichlorobenz	0.711	0.900	0.933	0.961	0.939	0.951	0.899	10.51
84)	T	Hexachlorobutadiene	0.939	1.124	1.129	1.130	1.156	1.056	1.089	7.40
85)	T	Naphthalene	0.544	0.752	0.820	0.876	0.837	0.890	0.786	16.30
86)	T	1,2,3-Trichlorobenz	0.509	0.653	0.684	0.703	0.669	0.682	0.650	10.96

= Out of Range

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\100200\C16822.D Vial: 1
Acq On : 2 Oct 2000 8:43 Operator: TAG/VR
Sample : ICAL 1 ppb (V00050,V00057) Inst : VOA-C
Misc : QC Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 2 14:20 2000 Quant Results File: 10020025.RES

Quant Method : C:\HPCHEM\1\DATA\100200\10020025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Mon Oct 02 09:31:07 2000
Response via : Initial Calibration
DataAcq Meth : 10020025

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Pentafluorobenzene	5.82	168	594702	10.00	ug\L		-0.04
45) Chlorobenzene-d5	12.20	117	499891	10.00	ug\L		-0.03
61) 1,4-Dichlorobenzene-d4	16.32	152	274608m	10.00	ug\L		-0.52
System Monitoring Compounds							
32) 1,2-Dichloroethane-d4	6.32	65	16856	1.24	ug\L		-0.03
Spiked Amount 10.000	Range 80 - 120		Recovery = 12.40%#				
46) Toluene-d8	9.69	98	87491	1.11	ug\L		-0.02
Spiked Amount 10.000	Range 87 - 104		Recovery = 11.10%#				
65) Bromofluorobenzene	14.30	95	91234m	2.21	ug\L		-0.02
Spiked Amount 10.000	Range 84 - 110		Recovery = 22.10%#				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.42	85	27962	0.75	ug\L		100
3) Chloromethane	1.61	50	18966	0.96	ug\L		92
4) Vinyl Chloride	1.62	62	20452	0.91	ug\L		99
5) Bromomethane	1.87	94	28103m	1.56	ug\L		
6) Chloroethane	1.95	64	9719m	0.65	ug\L		
7) Trichlorofluoromethane	2.12	101	40218	0.77	ug\L	#	100
8) Acrolein	2.50	56	285m	1.82	ug\L		
9) Acrylonitrile	3.11	53	2084m	2.02	ug\L		
10) 1,1-Dichloroethene	2.57	96	21345	0.84	ug\L		96
11) Acetone	2.71	58	547m	1.86	ug\L		
12) Iodomethane	2.80	142	41499m	1.73	ug\L		
13) Allylchloride	2.93	39	15508	0.76	ug\L	#	39
14) Carbon Disulfide	2.77	76	40321	0.89	ug\L	#	93
15) Acetonitrile	3.34	41	7780m	2.29	ug\L		
16) Methylene Chloride	3.09	86	12540m	0.84	ug\L		
17) trans-1,2-Dichloroethene	3.35	96	21990	0.86	ug\L		99
18) MethylTertButylEther	3.37	73	18214	0.91	ug\L		93
19) 1,1-Dichloroethane	3.89	63	38229	0.85	ug\L		99
20) Vinyl Acetate	3.99	43	7475m	0.83	ug\L		
21) 2,2-Dichloropropane	4.74	77	26316	0.67	ug\L	#	55
22) cis-1,2-Dichloroethene	4.82	96	20856	0.89	ug\L	#	11
23) 2-Butanone	5.21	72	0m	2.09	ug\L		
24) Propionitrile	5.13	54	2139m	6.46	ug\L		
25) Methacrylonitrile	5.31	41	18560	8.16	ug\L	#	51
26) Bromochloromethane	5.25	128	6953	0.89	ug\L	#	15
27) Chloroform	5.43	83	38281	0.88	ug\L		99
28) 1,1,1-Trichloroethane	5.65	97	37041	0.84	ug\L	#	37
29) Carbon Tetrachloride	5.93	119	32746	0.85	ug\L	#	3
30) 1,4-Dioxane	8.34	88	204m	12.23	ug\L		

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

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\100200\C16822.D Vial: 1
Acq On : 2 Oct 2000 8:43 Operator: TAG/VR
Sample : ICAL 1 ppb (V00050,V00057) Inst : VOA-C
Misc : QC Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 2 14:20 2000 Quant Results File: 10020025.RES

Quant Method : C:\HPCHEM\1\DATA\100200\10020025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Mon Oct 02 09:31:07 2000
Response via : Initial Calibration
DataAcq Meth : 10020025

Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
33) Benzene	6.32	78	65303	0.94	ug\L		100
34) Isobutyl alcohol	6.59	43	1759m	12.34	ug\L		
35) 1,2-Dichloroethane	6.47	62	14360m	0.93	ug\L		
36) Trichloroethene	7.54	95	32261	1.06	ug\L		97
37) 1,2-Dichloropropane	7.96	63	20957	0.92	ug\L	#	87
38) Dibromomethane	8.19	93	7915m	0.88	ug\L		
39) Methylmethacrylate	8.28	69	3314m	0.78	ug\L		
40) Bromodichloromethane	8.51	83	21915m	0.72	ug\L		
42) 2-Chloroethyl-vinyl ether	8.99	63	0m	3.77	ug\L		
43) cis-1,3-Dichloropropene	9.29	75	18291m	0.78	ug\L		
44) 4-Methyl-2-Pentanone	9.62	85	1059m	1.21	ug\L		
47) Toluene	9.79	92	44160	0.87	ug\L		98
48) trans-1,3-Dichloropropene	10.32	75	10863m	0.75	ug\L		
49) Ethylmethacrylate	10.53	69	8307	0.77	ug\L	#	89
50) 1,1,2-Trichloroethane	10.61	83	8491m	0.85	ug\L		
51) Tetrachloroethene	10.71	164	28541	1.09	ug\L		95
52) 1,3-Dichloropropane	10.89	76	16278m	0.88	ug\L		
53) 2-Hexanone	11.14	43	2123	0.77	ug\L	#	47
54) Dibromochloromethane	11.28	129	10088	0.64	ug\L		97
55) 1,2-Dibromoethane	11.40	107	9724	0.85	ug\L	#	99
56) Chlorobenzene	12.25	112	47574	0.90	ug\L		91
57) 1,1,1,2-Tetrachloroethane	12.44	131	17942	0.88	ug\L	#	61
58) Ethylbenzene	12.45	91	87547	0.85	ug\L		99
59) total-Xylene	12.67	106	89606m	2.47	ug\L		
60) Styrene	13.40	104	41002	0.81	ug\L		99
62) Bromoform	13.74	173	3323m	1.50	ug\L		
63) Isopropylbenzene	14.02	105	105098	0.77	ug\L		
64) 1,4-dichloro-2-Butene	14.29	75	45161m	1.99	ug\L		
66) Bromobenzene	14.51	156	16594	0.74	ug\L		
67) 1,1,2,2-Tetrachloroethane	14.67	83	8429m	0.61	ug\L		
68) 1,2,3-Trichloropropane	14.72	75	11985m	1.15	ug\L		
69) n-Propylbenzene	14.75	91	120268	0.74	ug\L		
70) 2-Chlorotoluene	14.85	91	67227	0.67	ug\L		
71) 4-Chlorotoluene	15.07	91	82919	0.77	ug\L		
72) 1,3,5-Trimethylbenzene	15.08	105	76332	0.72	ug\L		
74) tert-Butylbenzene	15.63	119	90695	0.73	ug\L		
75) 1,2,4-Trimethylbenzene	15.73	105	76864	0.75	ug\L		
76) sec-Butylbenzene	16.02	105	117780	0.72	ug\L		
77) 1,3-Dichlorobenzene	16.19	146	36358	0.79	ug\L		
78) Isopropyltoluene	16.30	119	93454	0.74	ug\L		
79) 1,4-Dichlorobenzene	16.35	146	40735	0.84	ug\L		
80) 1,2-Dichlorobenzene	16.99	146	28426	0.80	ug\L		

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

Data File : C:\HPCHEM\1\DATA\100200\C16822.D Vial: 1
Acq On : 2 Oct 2000 8:43 Operator: TAG/VR
Sample : ICAL 1 ppb (V00050,V00057) Inst : VOA-C
Misc : QC Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 2 14:20 2000 Quant Results File: 10020025.RES

Quant Method : C:\HPCHEM\1\DATA\100200\10020025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Mon Oct 02 09:31:07 2000
Response via : Initial Calibration
DataAcq Meth : 10020025

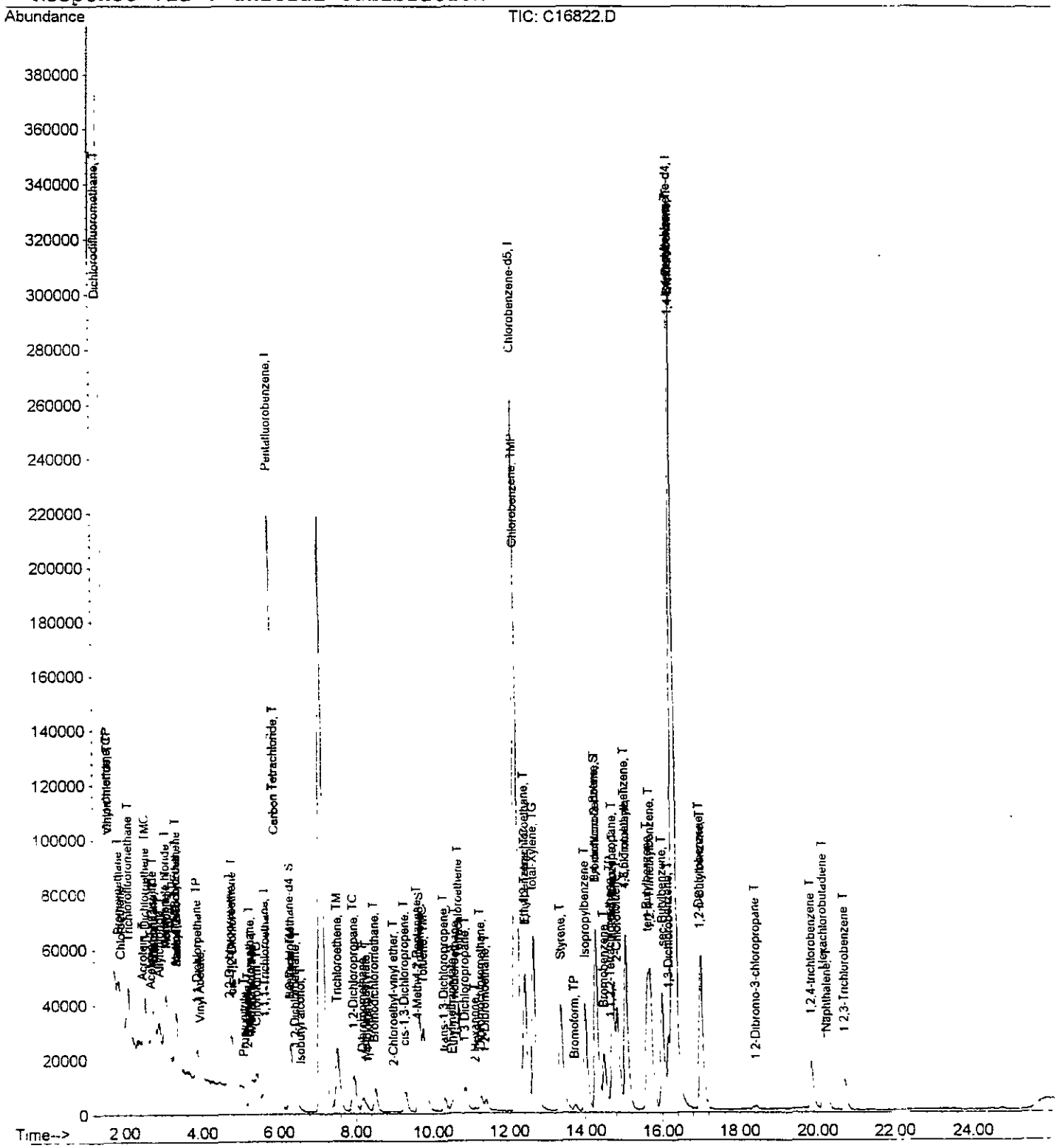
Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
81) n-Butylbenzene	17.03	91	100485	0.73	ug\L	
82) 1,2-Dibromo-3-chloropropan	18.44	75	1519m	0.73	ug\L	
83) 1,2,4-trichlorobenzene	19.87	180	19522	0.68	ug\L	
84) Hexachlorobutadiene	20.19	225	25789	0.79	ug\L	
85) Naphthalene	20.27	128	14945m	0.62	ug\L	
86) 1,2,3-Trichlorobenzene	20.72	180	13970	0.66	ug\L	

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

Quantitation Report

Data File : C:\HPCHEM\1\DATA\100200\C16822.D Vial: 1
Acq On : 2 Oct 2000 8:43 Operator: TAG/VR
Sample : ICAL 1 ppb (V00050,V00057) Inst : VOA-C
Misc : QC Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 2 14:20 2000 Quant Results File: 10020025.RES

Method : C:\HPCHEM\1\DATA\100200\10020025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Mon Oct 02 15:08:29 2000
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\100200\C16823.D Vial: 2
Acq On : 2 Oct 2000 9:14 Operator: TAG/VR
Sample : ICAL 4 ppb (V00050,V00057) Inst : VOA-C
Misc : QC Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 2 12:57 2000 Quant Results File: 10020025.RES

Quant Method : C:\HPCHEM\1\DATA\100200\10020025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Mon Oct 02 09:36:22 2000
Response via : Initial Calibration
DataAcq Meth : 10020025

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Pentafluorobenzene	5.82	168	512725	10.00	ug\L		-0.03
45) Chlorobenzene-d5	12.20	117	428861	10.00	ug\L		-0.02
61) 1,4-Dichlorobenzene-d4	16.32	152	217203	10.00	ug\L		0.00
System Monitoring Compounds							
32) 1,2-Dichloroethane-d4	6.32	65	51549	4.39	ug\L		-0.03
Spiked Amount 10.000	Range 80 - 120		Recovery = 43.90%#				
46) Toluene-d8	9.69	98	263717	3.91	ug\L		-0.02
Spiked Amount 10.000	Range 87 - 104		Recovery = 39.10%#				
65) Bromofluorobenzene	14.29	95	134033	4.10	ug\L		-0.02
Spiked Amount 10.000	Range 84 - 110		Recovery = 41.00%#				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.43	85	107160	3.32	ug\L		99
3) Chloromethane	1.58	50	55568	3.26	ug\L		97
4) Vinyl Chloride	1.63	62	79583	4.08	ug\L		99
5) Bromomethane	1.90	94	74483	4.78	ug\L		98
6) Chloroethane	1.97	64	46046	3.60	ug\L		97
7) Trichlorofluoromethane	2.13	101	184207	4.08	ug\L	#	100
8) Acrolein	2.53	56	2411	7.78	ug\L	#	60
9) Acrylonitrile	3.42	53	7065m	7.93	ug\L		
10) 1,1-Dichloroethene	2.58	96	81954	3.73	ug\L		97
11) Acetone	2.65	58	935m	3.68	ug\L		
12) Iodomethane	2.77	142	106470	4.33	ug\L		100
13) Allylchloride	2.92	39	63763	3.62	ug\L	#	45
14) Carbon Disulfide	2.78	76	194567	5.01	ug\L		99
15) Acetonitrile	3.35	41	20892m	7.14	ug\L		
16) Methylene Chloride	3.09	86	39602	3.87	ug\L	#	25
17) trans-1,2-Dichloroethene	3.37	96	82681	3.76	ug\L		96
18) MethylTertButylEther	3.35	73	69472	4.02	ug\L		97
19) 1,1-Dichloroethane	3.91	63	145722	3.74	ug\L		99
20) Vinyl Acetate	4.01	43	39355m	5.05	ug\L		
21) 2,2-Dichloropropane	4.76	77	126932	3.75	ug\L		98
22) cis-1,2-Dichloroethene	4.82	96	77059	3.83	ug\L		99
23) 2-Butanone	4.90	72	1460m	4.64	ug\L		
24) Propionitrile	5.08	54	10586m	37.07	ug\L		
25) Methacrylonitrile	5.30	41	77388	39.44	ug\L		98
26) Bromochloromethane	5.27	128	27425	4.06	ug\L		97
27) Chloroform	5.44	83	151765	4.04	ug\L		100
28) 1,1,1-Trichloroethane	5.66	97	147227	3.85	ug\L	#	39
29) Carbon Tetrachloride	5.94	119	130916	3.96	ug\L	#	33
30) 1,4-Dioxane	8.34	88	2350m	65.83	ug\L		

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

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\100200\C16823.D Vial: 2
Acq On : 2 Oct 2000 9:14 Operator: TAG/VR
Sample : ICAL 4 ppb (V00050,V00057) Inst : VOA-C
Misc : QC Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 2 12:57 2000 Quant Results File: 10020025.RES

Quant Method : C:\HPCHEM\1\DATA\100200\10020025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Mon Oct 02 09:36:22 2000
Response via : Initial Calibration
DataAcq Meth : 10020025

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
31)	1,1-Dichloropropene	5.96	77	46735	1.20	ug\L	#	1
33)	Benzene	6.34	78	239473	4.00	ug\L		100
34)	Isobutyl alcohol	6.61	43	8629m	70.19	ug\L		
35)	1,2-Dichloroethane	6.45	62	55536	4.17	ug\L		99
36)	Trichloroethene	7.54	95	115323	4.38	ug\L		97
37)	1,2-Dichloropropane	7.96	63	78614	4.01	ug\L	#	87
38)	Dibromomethane	8.18	93	33491	4.33	ug\L		94
39)	Methylmethacrylate	8.29	69	14148m	3.85	ug\L		
40)	Bromodichloromethane	8.51	83	107396m	4.10	ug\L		
41)	2-Nitropropane	8.98	43	2599m	2.45	ug\L		
42)	2-Chloroethyl-vinyl ether	9.12	63	5361m	25.21	ug\L		
43)	cis-1,3-Dichloropropene	9.29	75	80740	3.97	ug\L		97
44)	4-Methyl-2-Pentanone	9.65	85	4162m	5.52	ug\L		
47)	Toluene	9.80	92	163586	3.74	ug\L		98
48)	trans-1,3-Dichloropropene	10.31	75	50590m	4.08	ug\L		
49)	Ethylmethacrylate	10.53	69	34634	3.75	ug\L	#	95
50)	1,1,2-Trichloroethane	10.62	83	36411m	4.27	ug\L		
51)	Tetrachloroethene	10.72	164	89247	3.96	ug\L		98
52)	1,3-Dichloropropane	10.88	76	65729m	4.16	ug\L		
53)	2-Hexanone	11.14	43	8513	3.58	ug\L	#	85
54	Dibromochloromethane	11.29	129	57420m	4.22	ug\L		
55)	1,2-Dibromoethane	11.39	107	42982	4.38	ug\L	#	99
56)	Chlorobenzene	12.24	112	178813	3.95	ug\L		97
57)	1,1,1,2-Tetrachloroethane	12.43	131	71949	4.10	ug\L		99
58)	Ethylbenzene	12.46	91	332986	3.78	ug\L		99
59)	total-Xylene	12.68	106	355290m	11.43	ug\L		
60)	Styrene	13.42	104	165876	3.83	ug\L		99
62)	Bromoform	13.74	173	22684m	4.35	ug\L		
63)	Isopropylbenzene	14.03	105	389383	3.61	ug\L		100
64)	1,4-dichloro-2-Butene	14.28	75	73789m	4.12	ug\L		
66)	Bromobenzene	14.51	156	66732	3.77	ug\L		87
67)	1,1,2,2-Tetrachloroethane	14.69	83	43481m	3.97	ug\L		
68)	1,2,3-Trichloropropane	14.71	75	32030	3.90	ug\L	#	100
69)	n-Propylbenzene	14.75	91	457556	3.58	ug\L		99
70)	2-Chlorotoluene	14.85	91	281195m	3.57	ug\L		
71)	4-Chlorotoluene	15.06	91	317260	3.74	ug\L		98
72)	1,3,5-Trimethylbenzene	15.09	105	297278	3.56	ug\L		89
73)	Pentachloroethane	15.67	167	43489m	3.80	ug\L		
74)	tert-Butylbenzene	15.63	119	356082	3.60	ug\L		99
75)	1,2,4-Trimethylbenzene	15.72	105	287660	3.56	ug\L		98
76)	sec-Butylbenzene	16.02	105	466672	3.59	ug\L		99
77)	1,3-Dichlorobenzene	16.19	146	136079	3.74	ug\L		99

= qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\100200\C16823.D Vial: 2
Acq On : 2 Oct 2000 9:14 Operator: TAG/VR
Sample : ICAL 4 ppb (V00050,V00057) Inst : VOA-C
Misc : QC Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 2 12:57 2000 Quant Results File: 10020025.RES

Quant Method : C:\HPCHEM\1\DATA\100200\10020025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Mon Oct 02 09:36:22 2000
Response via : Initial Calibration
DataAcq Meth : 10020025

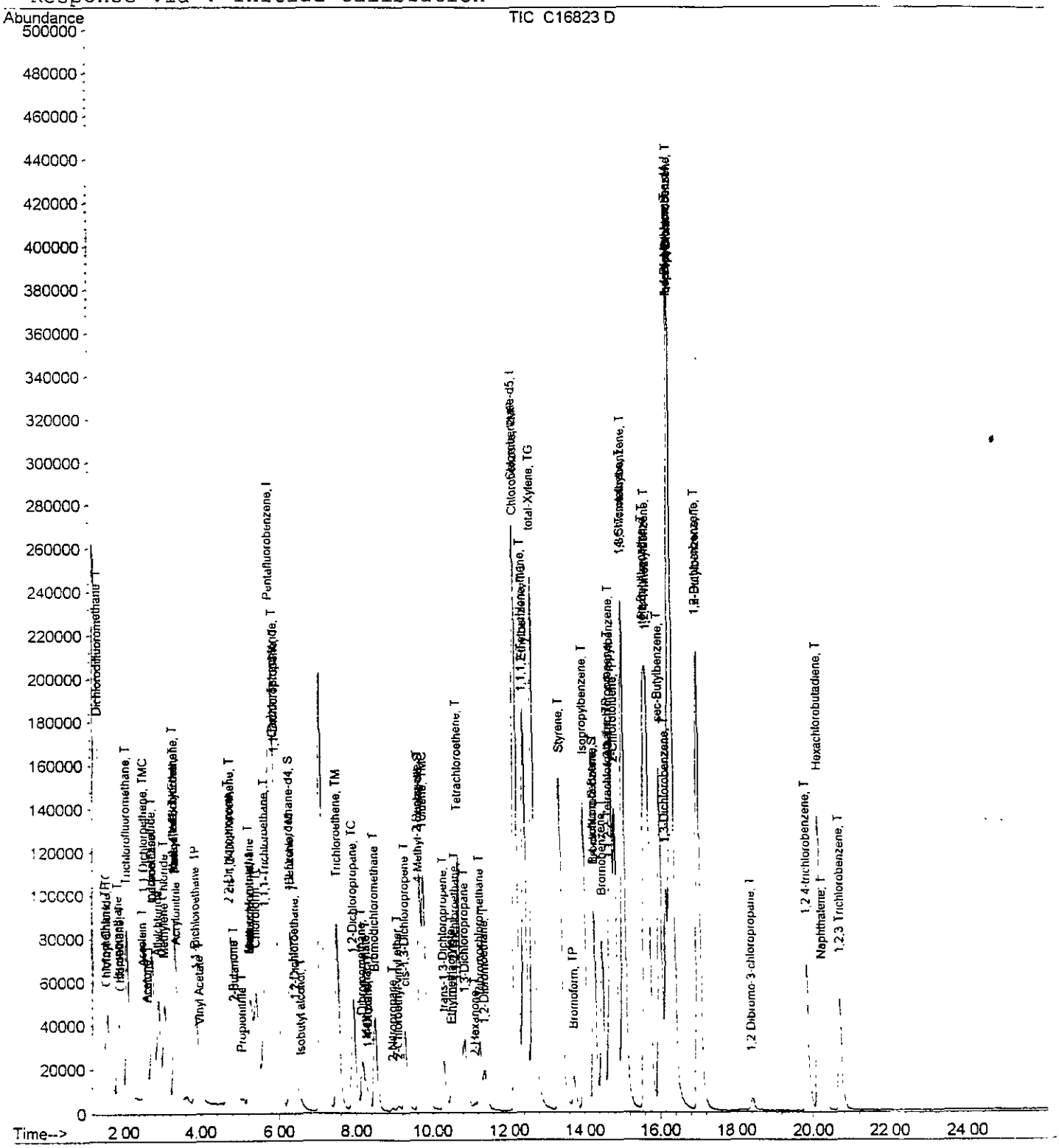
Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
78) Isopropyltoluene	16.31	119	346851	3.48	ug\L	98
79) 1,4-Dichlorobenzene	16.35	146	150546	3.93	ug\L	97
80) 1,2-Dichlorobenzene	17.01	146	108386	3.87	ug\L	98
81) n-Butylbenzene	17.04	91	385018	3.52	ug\L	99
82) 1,2-Dibromo-3-chloropropan	18.43	75	6374m	3.85	ug\L	
83) 1,2,4-trichlorobenzene	19.87	180	78169	3.46	ug\L	100
84) Hexachlorobutadiene	20.18	225	97672	3.78	ug\L	100
85) Naphthalene	20.28	128	65337m	3.42	ug\L	
86) 1,2,3-Trichlorobenzene	20.72	180	56710	3.40	ug\L	98

= qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\100200\C16823.D Vial: 2
Acq On : 2 Oct 2000 9:14 Operator: TAG/VR
Sample : ICAL 4 ppb (V00050,V00057) Inst : VOA-C
Misc : QC Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 2 12:57 2000 Quant Results File: 10020025.RES

Method : C:\HPCHEM\1\DATA\100200\10020025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Mon Oct 02 15:08:29 2000
Response via : Initial Calibration



Quantitation Report (QF Reviewed)

Data File : C:\HPCHEM\1\DATA\100200\C16824.D Vial: 3
Acq On : 2 Oct 2000 9:44 Operator: TAG/VR
Sample : ICAL 10 ppb (V00050,V00057) Inst : VOA-C
Misc : QC Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 2 13:01 2000 Quant Results File: 10020025.RES

Quant Method : C:\HPCHEM\1\DATA\100200\10020025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Mon Oct 02 09:36:22 2000
Response via : Initial Calibration
DataAcq Meth : 10020025

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Pentafluorobenzene	5.84	168	503256	10.00	ug\L		-0.02
45) Chlorobenzene-d5	12.21	117	430874	10.00	ug\L		-0.02
61) 1,4-Dichlorobenzene-d4	16.32	152	213993	10.00	ug\L		0.00
System Monitoring Compounds							
32) 1,2-Dichloroethane-d4	6.33	65	129300	11.22	ug\L		-0.02
Spiked Amount 10.000	Range 80 - 120		Recovery = 112.20%				
46) Toluene-d8	9.68	98	662977	9.79	ug\L		-0.03
Spiked Amount 10.000	Range 87 - 104		Recovery = 97.90%				
65) Bromofluorobenzene	14.30	95	335012	10.41	ug\L		-0.02
Spiked Amount 10.000	Range 84 - 110		Recovery = 104.10%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.45	85	266142	8.39	ug\L		99
3) Chloromethane	1.60	50	136049	8.13	ug\L		99
4) Vinyl Chloride	1.65	62	200096	10.46	ug\L		100
5) Bromomethane	1.90	94	161455	10.56	ug\L		98
6) Chloroethane	1.98	64	111796	8.90	ug\L		98
7) Trichlorofluoromethane	2.14	101	449333	10.15	ug\L	#	100
8) Acrolein	2.51	56	6213	18.59	ug\L	=	66
9) Acrylonitrile	3.43	53	17923	20.50	ug\L		96
10) 1,1-Dichloroethene	2.57	96	204834	9.51	ug\L		98
11) Acetone	2.69	58	2602	10.43	ug\L		90
12) Iodomethane	2.76	142	339208	13.11	ug\L		99
13) Allylchloride	2.94	39	165155	9.56	ug\L	#	46
14) Carbon Disulfide	2.79	76	514615	13.49	ug\L		100
15) Acetonitrile	2.94	41	286878	99.83	ug\L		97
16) Methylene Chloride	3.09	86	94852	9.87	ug\L	#	28
17) trans-1,2-Dichloroethene	3.36	96	208214	9.65	ug\L		97
18) MethylTertButylEther	3.36	73	179858	10.59	ug\L		100
19) 1,1-Dichloroethane	3.90	63	369019	9.66	ug\L		100
20) Vinyl Acetate	4.00	43	98965	12.95	ug\L		96
21) 2,2-Dichloropropane	4.76	77	330895	9.97	ug\L		99
22) cis-1,2-Dichloroethene	4.81	96	195404	9.89	ug\L		99
23) 2-Butanone	4.91	72	4688m	10.42	ug\L		
24) Propionitrile	5.09	54	28849	102.91	ug\L	#	92
25) Methacrylonitrile	5.30	41	194214	100.84	ug\L		98
26) Bromochloromethane	5.26	128	69754	10.53	ug\L		98
27) Chloroform	5.44	83	380925	10.33	ug\L		99
28) 1,1,1-Trichloroethane	5.66	97	372048	9.91	ug\L	#	76
29) Carbon Tetrachloride	5.94	119	342817	10.57	ug\L	=	78
30) 1,4-Dioxane	8.33	88	5764	152.67	ug\L	=	44

= qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\100200\C16824.D Vial: 3
Acq On : 2 Oct 2000 9:44 Operator: TAG/VR
Sample : ICAL 10 ppb (V00050,V00057) Inst : VOA-C
Misc : QC Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 2 13:01 2000 Quant Results File: 10020025.RES

Quant Method : C:\HPCHEM\1\DATA\100200\10020025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Mon Oct 02 09:36:22 2000
Response via : Initial Calibration
DataAcq Meth : 10020025

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
31)	1,1-Dichloropropene	5.96	77	114630	3.00	ug\L	#	1
33)	Benzene	6.35	78	598795	10.19	ug\L		100
34)	Isobutyl alcohol	6.59	43	22469	186.22	ug\L		97
35)	1,2-Dichloroethane	6.46	62	144247	11.03	ug\L		100
36)	Trichloroethene	7.54	95	291760	11.29	ug\L		98
37)	1,2-Dichloropropane	7.97	63	199624	10.38	ug\L		99
38)	Dibromomethane	8.19	93	85471	11.25	ug\L		96
39)	Methylmethacrylate	8.27	69	38131	10.58	ug\L		87
40)	Bromodichloromethane	8.52	83	282703	11.00	ug\L		99
41)	2-Nitropropane	8.97	43	6730	6.45	ug\L	#	100
42)	2-Chloroethyl-vinyl ether	9.10	63	21041m	89.49	ug\L		
43)	cis-1,3-Dichloropropene	9.30	75	215579	10.80	ug\L		97
44)	4-Methyl-2-Pentanone	9.62	85	11125m	15.04	ug\L		
47)	Toluene	9.80	92	406219	9.25	ug\L		100
48)	trans-1,3-Dichloropropene	10.32	75	138462m	11.12	ug\L		
49)	Ethylmethacrylate	10.52	69	89841	9.69	ug\L	#	93
50)	1,1,2-Trichloroethane	10.62	83	90808m	10.59	ug\L		
51)	Tetrachloroethene	10.73	164	221543	9.78	ug\L		98
52)	1,3-Dichloropropane	10.89	76	164947	10.38	ug\L		99
53)	2-Hexanone	11.12	43	23818	9.96	ug\L		95
54)	Dibromochloromethane	11.28	129	151043	11.05	ug\L		99
55)	1,2-Dibromoethane	11.40	107	109747	11.12	ug\L		99
56)	Chlorobenzene	12.25	112	443603	9.75	ug\L		99
57)	1,1,1,2-Tetrachloroethane	12.44	131	185816	10.54	ug\L		98
58)	Ethylbenzene	12.46	91	828946	9.35	ug\L		99
59)	total-Xylene	12.68	106	887578m	28.42	ug\L		
60)	Styrene	13.41	104	421476	9.68	ug\L		100
62)	Bromoform	13.75	173	65925m	10.64	ug\L		
63)	Isopropylbenzene	14.02	105	976909	9.19	ug\L		100
64)	1,4-dichloro-2-Butene	14.29	75	186300	10.55	ug\L	#	100
66)	Bromobenzene	14.51	156	168317	9.66	ug\L		87
67)	1,1,2,2-Tetrachloroethane	14.69	83	111595	10.35	ug\L		100
68)	1,2,3-Trichloropropane	14.69	75	123997m	15.32	ug\L		
69)	n-Propylbenzene	14.75	91	1191090	9.45	ug\L		98
70)	2-Chlorotoluene	14.85	91	604515	7.78	ug\L		96
71)	4-Chlorotoluene	15.07	91	807552	9.66	ug\L		97
72)	1,3,5-Trimethylbenzene	15.08	105	739797	8.99	ug\L		90
73)	Pentachloroethane	15.69	167	116740	10.36	ug\L		98
74)	tert-Butylbenzene	15.64	119	909806	9.34	ug\L		99
75)	1,2,4-Trimethylbenzene	15.73	105	724065	9.09	ug\L		98
76)	sec-Butylbenzene	16.02	105	1172510	9.16	ug\L		100
77)	1,3-Dichlorobenzene	16.18	146	327426	9.13	ug\L		97

= qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\100200\C16824.D Vial: 3
Acq On : 2 Oct 2000 9:44 Operator: TAG/VR
Sample : ICAL 10 ppb (V00050,V00057) Inst : VOA-C
Misc : QC Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 2 13:01 2000 Quant Results File: 10020025.RES

Quant Method : C:\HPCHEM\1\DATA\100200\10020025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Mon Oct 02 09:36:22 2000
Response via : Initial Calibration
DataAcq Meth : 10020025

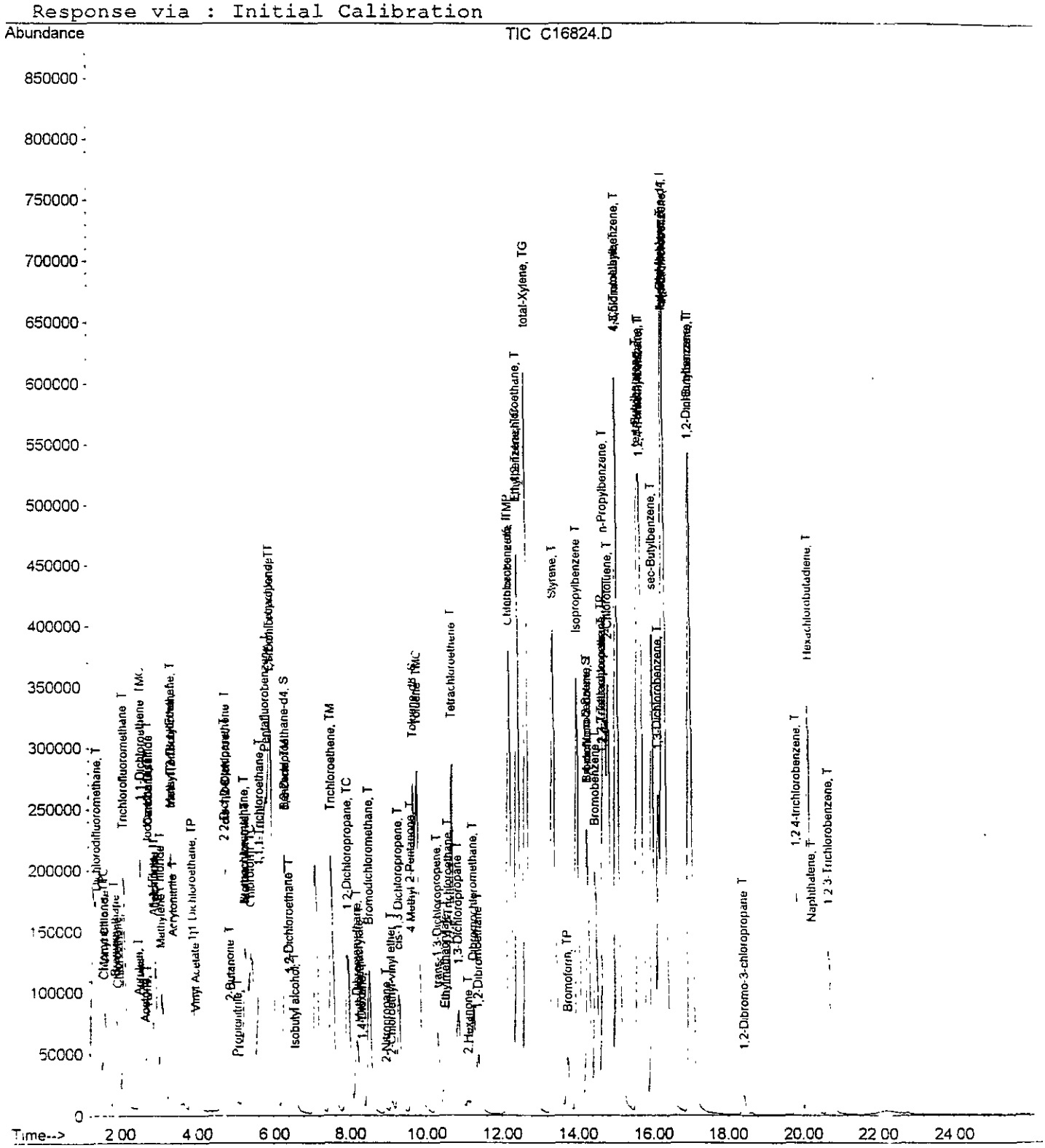
Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
78) Isopropyltoluene	16.31	119	883210	9.00	ug\L	99
79) 1,4-Dichlorobenzene	16.36	146	381484	10.12	ug\L	98
80) 1,2-Dichlorobenzene	17.00	146	268767	9.74	ug\L	99
81) n-Butylbenzene	17.03	91	982004	9.10	ug\L	99
82) 1,2-Dibromo-3-chloropropan	18.45	75	17333m	10.64	ug\L	
83) 1,2,4-trichlorobenzene	19.87	180	199559	8.97	ug\L	100
84) Hexachlorobutadiene	20.19	225	241677	9.50	ug\L	100
85) Naphthalene	20.28	128	175382	9.32	ug\L	100
86) 1,2,3-Trichlorobenzene	20.71	180	146450	8.92	ug\L	99

= qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\100200\C16824.D Vial: 3
Acq On : 2 Oct 2000 9:44 Operator: TAG/VR
Sample : ICAL 10 ppb (V00050,V00057) Inst : VOA-C
Misc : QC Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 2 13:01 2000 Quant Results File: 10020025.RES

Method : C:\HPCHEM\1\DATA\100200\10020025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Mon Oct 02 15:08:29 2000
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\100200\C16825.D Vial: 4
Acq On : 2 Oct 2000 10:14 Operator: TAG/VR
Sample : ICAL 20 ppb (V00050,V00057) Inst : VOA-C
Misc : QC Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 2 11:05 2000 Quant Results File: 10020025.RES

Quant Method : C:\HPCHEM\1\DATA\100200\10020025.M (RTE Integrator
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Mon Oct 02 09:36:22 2000
Response via : Initial Calibration
DataAcq Meth : 10020025

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Pentafluorobenzene	5.83	168	495785	10.00	ug\L		-0.02
45) Chlorobenzene-d5	12.21	117	425011	10.00	ug\L		-0.01
61) 1,4-Dichlorobenzene-d4	16.32	152	214306	10.00	ug\L		0.00
System Monitoring Compounds							
32) 1,2-Dichloroethane-d4	6.32	65	252437	22.24	ug\L		-0.03
Spiked Amount 10.000	Range 80 - 120		Recovery = 222.40%#				
46) Toluene-d8	9.69	98	1242269	18.60	ug\L		-0.02
Spiked Amount 10.000	Range 87 - 104		Recovery = 186.00%#				
65) Bromofluorobenzene	14.30	95	640869	19.89	ug\L		-0.01
Spiked Amount 10.000	Range 84 - 110		Recovery = 198.90%#				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.43	85	520152	16.65	ug\L		99
3) Chloromethane	1.60	50	262838	15.95	ug\L		98
4) Vinyl Chloride	1.65	62	381759	20.26	ug\L		100
5) Bromomethane	1.91	94	296379	19.68	ug\L		99
6) Chloroethane	1.98	64	205633	16.61	ug\L		96
7) Trichlorofluoromethane	2.13	101	869109	19.93	ug\L	#	100
8) Acrolein	2.53	56	12709	37.37	ug\L	#	86
9) Acrylonitrile	3.41	53	37185	43.17	ug\L		97
10) 1,1-Dichloroethene	2.59	96	398460	18.78	ug\L		98
11) Acetone	2.68	58	5081	20.68	ug\L		95
12) Iodomethane	2.77	142	683487	26.38	ug\L		99
13) Allylchloride	2.94	39	325193	19.10	ug\L	#	46
14) Carbon Disulfide	2.79	76	996517	26.52	ug\L		100
15) Acetonitrile	2.94	41	557708	197.00	ug\L		97
16) Methylene Chloride	3.11	86	187388	20.11	ug\L	#	28
17) trans-1,2-Dichloroethene	3.37	96	404434	19.03	ug\L		97
18) MethylTertButylEther	3.37	73	370098	22.12	ug\L		100
19) 1,1-Dichloroethane	3.91	63	717251	19.06	ug\L		99
20) Vinyl Acetate	4.01	43	205851	27.34	ug\L		95
21) 2,2-Dichloropropane	4.77	77	652318	19.95	ug\L		99
22) cis-1,2-Dichloroethene	4.83	96	382210	19.64	ug\L		98
23) 2-Butanone	4.93	72	10026	20.17	ug\L	#	44
24) Propionitrile	5.09	54	58791	212.89	ug\L	#	80
25) Methacrylonitrile	5.31	41	401611	211.67	ug\L		99
26) Bromochloromethane	5.26	128	138827	21.26	ug\L		99
27) Chloroform	5.45	83	758677	20.39	ug\L		100
28) 1,1,1-Trichloroethane	5.67	97	742982	20.10	ug\L	#	83
29) Carbon Tetrachloride	5.93	119	676465	21.17	ug\L		93
30) 1,4-Dioxane	8.33	88	15395	400.40	ug\L	#	86

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

Data File : C:\HPCHEM\1\DATA\100200\C16825.D Vial: 4
Acq On : 2 Oct 2000 10:14 Operator: TAG/VR
Sample : ICAL 20 ppb (V00050,V00057) Inst : VOA-C
Misc : QC Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 2 11:05 2000 Quant Results File: 10020025.RES

Quant Method : C:\HPCHEM\1\DATA\100200\10020025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Mon Oct 02 09:36:22 2000
Response via : Initial Calibration
DataAcq Meth : 10020025

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
31) 1,1-Dichloropropene	5.96	77	221106	5.87 ug\L #	1
33) Benzene	6.34	78	1167123	20.17 ug\L	100
34) Isobutyl alcohol	6.58	43	48149	405.06 ug\L	93
35) 1,2-Dichloroethane	6.47	62	289125	22.44 ug\L	99
36) Trichloroethene	7.54	95	570084	22.39 ug\L	99
37) 1,2-Dichloropropane	7.95	63	403002	21.28 ug\L	99
38) Dibromomethane	8.20	93	174265	23.28 ug\L	95
39) Methylmethacrylate	8.29	69	81935	23.08 ug\L	87
40) Bromodichloromethane	8.51	83	587271	23.19 ug\L	99
41) 2-Nitropropane	8.97	43	15584	15.17 ug\L #	100
42) 2-Chloroethyl-vinyl ether	9.12	63	54360	228.56 ug\L	100
43) cis-1,3-Dichloropropene	9.28	75	449795	22.87 ug\L	96
44) 4-Methyl-2-Pentanone	9.63	85	15836	21.74 ug\L #	47
47) Toluene	9.80	92	791324	18.26 ug\L	100
48) trans-1,3-Dichloropropene	10.32	75	288061	23.46 ug\L	96
49) Ethylmethacrylate	10.53	69	190078	20.77 ug\L #	94
50) 1,1,2-Trichloroethane	10.63	83	180632	21.35 ug\L	94
51) Tetrachloroethene	10.72	164	434732	19.46 ug\L	98
52) 1,3-Dichloropropane	10.88	76	327486	20.89 ug\L	100
53) 2-Hexanone	11.12	43	48246	20.46 ug\L #	87
54) Dibromochloromethane	11.27	129	315675	23.42 ug\L	98
55) 1,2-Dibromoethane	11.39	107	224297	23.04 ug\L	99
56) Chlorobenzene	12.25	112	887862	19.79 ug\L	100
57) 1,1,1,2-Tetrachloroethane	12.44	131	377658	21.73 ug\L	98
58) Ethylbenzene	12.47	91	1632702	18.68 ug\L	99
59) total-Xylene	12.68	106	1758718m	57.09 ug\L	
60) Styrene	13.41	104	848122	19.74 ug\L	99
62) Bromoform	13.74	173	144587	21.96 ug\L	98
63) Isopropylbenzene	14.02	105	1908686	17.94 ug\L	99
64) 1,4-dichloro-2-Butene	14.29	75	358656	20.29 ug\L #	100
66) Bromobenzene	14.51	156	336395	19.29 ug\L	87
67) 1,1,2,2-Tetrachloroethane	14.69	83	230227	21.32 ug\L	99
68) 1,2,3-Trichloropropane	14.71	75	218241	26.92 ug\L #	100
69) n-Propylbenzene	14.76	91	2245154	17.79 ug\L	99
70) 2-Chlorotoluene	14.86	91	1250160	16.07 ug\L	98
71) 4-Chlorotoluene	15.07	91	1581087	18.89 ug\L	97
72) 1,3,5-Trimethylbenzene	15.08	105	1451918	17.62 ug\L	89
73) Pentachloroethane	15.67	167	240345	21.29 ug\L	97
74) tert-Butylbenzene	15.63	119	1774471	18.20 ug\L	99
75) 1,2,4-Trimethylbenzene	15.73	105	1427589	17.90 ug\L	98
76) sec-Butylbenzene	16.02	105	2296686	17.92 ug\L	100
77) 1,3-Dichlorobenzene	16.19	146	664038	18.48 ug\L	99

= qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\100200\C16825.D Vial: 4
Acq On : 2 Oct 2000 10:14 Operator: TAG/VR
Sample : ICAL 20 ppb (V00050,V00057) Inst : VOA-C
Misc : QC Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 2 11:05 2000 Quant Results File: 10020025.RES

Quant Method : C:\HPCHEM\1\DATA\100200\10020025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Mon Oct 02 09:36:22 2000
Response via : Initial Calibration
DataAcq Meth : 10020025

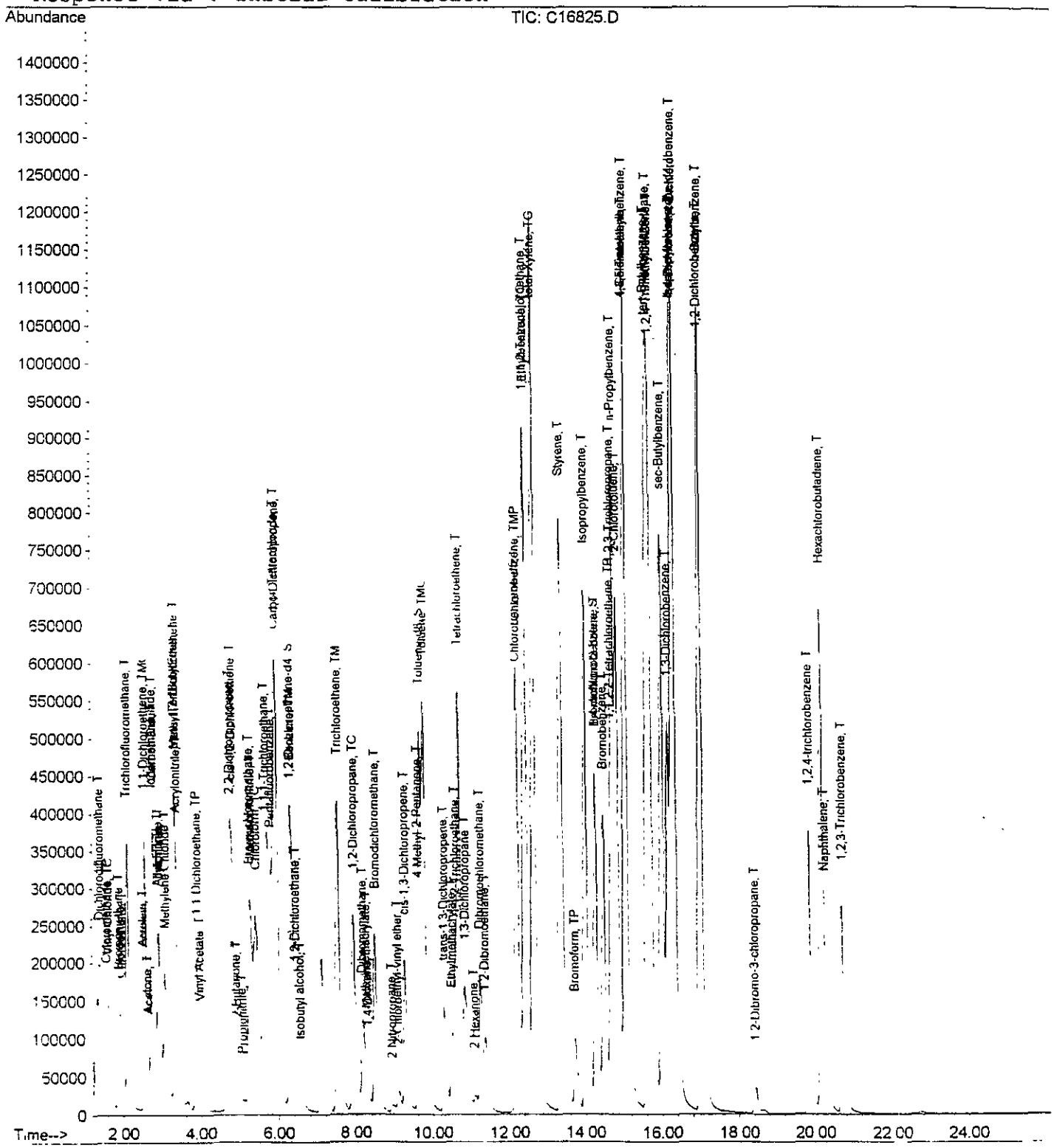
Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
78) Isopropyltoluene	16.31	119	1747682	17.78	ug\L	100
79) 1,4-Dichlorobenzene	16.35	146	733683	19.43	ug\L	99
80) 1,2-Dichlorobenzene	17.00	146	531165	19.22	ug\L	99
81) n-Butylbenzene	17.04	91	1920433	17.77	ug\L	99
82) 1,2-Dibromo-3-chloropropan	18.44	75	39311	24.08	ug\L	96
83) 1,2,4-trichlorobenzene	19.87	180	411896	18.48	ug\L	100
84) Hexachlorobutadiene	20.19	225	484139	19.00	ug\L	100
85) Naphthalene	20.28	128	375392	19.93	ug\L	100
86) 1,2,3-Trichlorobenzene	20.72	180	301408	18.32	ug\L	98

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

Quantitation Report

Data File : C:\HPCHEM\1\DATA\100200\C16825.D Vial: 4
Acq On : 2 Oct 2000 10:14 Operator: TAG/VR
Sample : ICAL 20 ppb (V00050,V00057) Inst : VOA-C
Misc : QC Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 2 11:05 2000 Quant Results File: 10020025.RES

Method : C:\HPCHEM\1\DATA\100200\10020025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Mon Oct 02 15:08:29 2000
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\100200\C16826.D Vial: 5
Acq On : 2 Oct 2000 11:45 Operator: TAG/VR
Sample : ICAL 30 ppb (V00050,V00057) Inst : VOA-C
Misc : QC Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 2 12:12 2000 Quant Results File: 10020025.RES

Quant Method : c:\hpchem\1\data\100200\10020025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Mon Oct 02 09:36:22 2000
Response via : Initial Calibration
DataAcq Meth : 10020025

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Pentafluorobenzene	5.82	168	561481	10.00	ug\L		-0.03
45) Chlorobenzene-d5	12.19	117	444506	10.00	ug\L		-0.03
61) 1,4-Dichlorobenzene-d4	16.31	152	211128	10.00	ug\L		0.00
System Monitoring Compounds							
32) 1,2-Dichloroethane-d4	6.31	65	366899	28.54	ug\L		-0.03
Spiked Amount 10.000	Range 80 - 120		Recovery = 285.40%#				
46) Toluene-d8	9.68	98	2011542	28.80	ug\L		-0.03
Spiked Amount 10.000	Range 87 - 104		Recovery = 288.00%#				
65) Bromofluorobenzene	14.29	95	968925	30.52	ug\L		-0.02
Spiked Amount 10.000	Range 84 - 110		Recovery = 305.20%#				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.43	85	804398	22.74	ug\L		99
3) Chloromethane	1.59	50	414149	22.19	ug\L		98
4) Vinyl Chloride	1.63	62	597092	27.98	ug\L		99
5) Bromomethane	1.90	94	449738	26.37	ug\L		99
6) Chloroethane	1.97	64	326197	23.26	ug\L		97
7) Trichlorofluoromethane	2.13	101	1367229	27.68	ug\L	#	100
8) Acrolein	2.51	56	15676	40.60	ug\L	#	65
9) Acrylonitrile	3.40	53	49498	50.74	ug\L		97
10) 1,1-Dichloroethene	2.58	96	634361	26.40	ug\L		99
11) Acetone	2.68	58	6855	24.64	ug\L		95
12) Iodomethane	2.75	142	1120191	37.99	ug\L		99
13) Allylchloride	2.93	39	523868	27.17	ug\L	#	45
14) Carbon Disulfide	2.78	76	1618332	38.03	ug\L		99
15) Acetonitrile	2.93	41	863689	269.39	ug\L		100
16) Methylene Chloride	3.09	86	277543	26.39	ug\L	#	27
17) trans-1,2-Dichloroethene	3.36	96	656300	27.27	ug\L		100
18) MethylTertButylEther	3.36	73	511312	26.98	ug\L		100
19) 1,1-Dichloroethane	3.90	63	1128945	26.49	ug\L		99
20) Vinyl Acetate	4.00	43	324039	38.00	ug\L	#	92
21) 2,2-Dichloropropane	4.75	77	1129300	30.50	ug\L		99
22) cis-1,2-Dichloroethene	4.81	96	603753	27.39	ug\L		100
23) 2-Butanone	4.88	72	15172	26.25	ug\L	#	1
24) Propionitrile	5.07	54	82059	262.38	ug\L	#	76
25) Methacrylonitrile	5.29	41	568585	264.62	ug\L		98
26) Bromochloromethane	5.26	128	207595	28.08	ug\L		97
27) Chloroform	5.44	83	1190628	28.94	ug\L		100
28) 1,1,1-Trichloroethane	5.66	97	1224426	29.24	ug\L	#	86
29) Carbon Tetrachloride	5.93	119	1096964	30.31	ug\L		85
30) 1,4-Dioxane	8.31	88	17795	408.50	ug\L	#	77

= qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\100200\C16826.D Vial: 5
Acq On : 2 Oct 2000 11:45 Operator: TAG/VR
Sample : ICAL 30 ppb (V00050,V00057) Inst : VOA-C
Misc : QC Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 2 12:12 2000 Quant Results File: 10020025.RES

Quant Method : c:\hpchem\1\data\100200\10020025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Mon Oct 02 09:36:22 2000
Response via : Initial Calibration
DataAcq Meth : 10020025

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
31)	1,1-Dichloropropene	5.97	77	345176	8.10	ug\L	#	1
33)	Benzene	6.34	78	1766520	26.95	ug\L		100
34)	Isobutyl alcohol	6.54	43	60214	447.29	ug\L	#	17
35)	1,2-Dichloroethane	6.45	62	401883	27.54	ug\L		98
36)	Trichloroethene	7.54	95	903086	31.32	ug\L		97
37)	1,2-Dichloropropane	7.95	63	594900	27.74	ug\L	#	97
38)	Dibromomethane	8.18	93	248978	29.36	ug\L		94
39)	Methylmethacrylate	8.28	69	108940	27.10	ug\L		88
40)	Bromodichloromethane	8.51	83	894269	31.18	ug\L		100
41)	2-Nitropropane	8.98	43	23337	20.06	ug\L	#	100
42)	2-Chloroethyl-vinyl ether	9.11	63	79376	293.60	ug\L		94
43)	cis-1,3-Dichloropropene	9.29	75	687922	30.89	ug\L		94
44)	4-Methyl-2-Pentanone	9.63	85	18358	22.25	ug\L	#	69
47)	Toluene	9.80	92	1274521	28.13	ug\L		99
48)	trans-1,3-Dichloropropene	10.31	75	437107	34.03	ug\L		95
49)	Ethylmethacrylate	10.52	69	277567	29.01	ug\L	#	93
50)	1,1,2-Trichloroethane	10.62	83	252372	28.53	ug\L		95
51)	Tetrachloroethene	10.72	164	698439	29.90	ug\L		96
52)	1,3-Dichloropropane	10.87	76	475664	29.02	ug\L		100
53)	2-Hexanone	11.10	43	64360	26.09	ug\L	#	86
54)	Dibromochloromethane	11.26	129	477180	33.85	ug\L		100
55)	1,2-Dibromoethane	11.39	107	322369	31.67	ug\L	#	98
56)	Chlorobenzene	12.24	112	1363767	29.07	ug\L		100
57)	1,1,1,2-Tetrachloroethane	12.43	131	575444	31.65	ug\L		97
58)	Ethylbenzene	12.47	91	2558506	27.99	ug\L		100
59)	total-Xylene	12.68	106	2735619m	84.90	ug\L		
60)	Styrene	13.40	104	1285819	28.62	ug\L		100
62)	Bromoform	13.74	173	213523	32.36	ug\L		98
63)	Isopropylbenzene	14.02	105	3013474	28.75	ug\L		99
64)	1,4-dichloro-2-Butene	14.28	75	553849	31.80	ug\L	#	100
66	Bromobenzene	14.50	156	501727	29.20	ug\L		85
67	1,1,2,2-Tetrachloroethane	14.68	83	310812	29.22	ug\L		99
68	1,2,3-Trichloropropane	14.70	75	309356	38.73	ug\L	=	100
69	n-Propylbenzene	14.76	91	3566203	28.68	ug\L		99
70	2-Chlorotoluene	14.85	91	1823712	23.80	ug\L		97
71	4-Chlorotoluene	15.07	91	2401627	29.12	ug\L		98
72	1,3,5-Trimethylbenzene	15.08	105	2243948	27.65	ug\L		89
73	Pentachloroethane	15.67	167	359533	32.33	ug\L		97
74	tert-Butylbenzene	15.62	119	2790803	29.05	ug\L		99
75	1,2,4-Trimethylbenzene	15.72	105	2157621	27.46	ug\L		99
76	sec-Butylbenzene	16.02	105	3622239	28.69	ug\L		99
77	1,3-Dichlorobenzene	16.19	146	1011985	28.59	ug\L		100

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

Data File : C:\HPCHEM\1\DATA\100200\C16826.D Vial: 5
Acq On : 2 Oct 2000 11:45 Operator: TAG/VR
Sample : ICAL 30 ppb (V00050,V00057) Inst : VOA-C
Misc : QC Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 2 12:12 2000 Quant Results File: 10020025.RES

Quant Method : c:\hpchem\1\data\100200\10020025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Mon Oct 02 09:36:22 2000
Response via : Initial Calibration
DataAcq Meth : 10020025

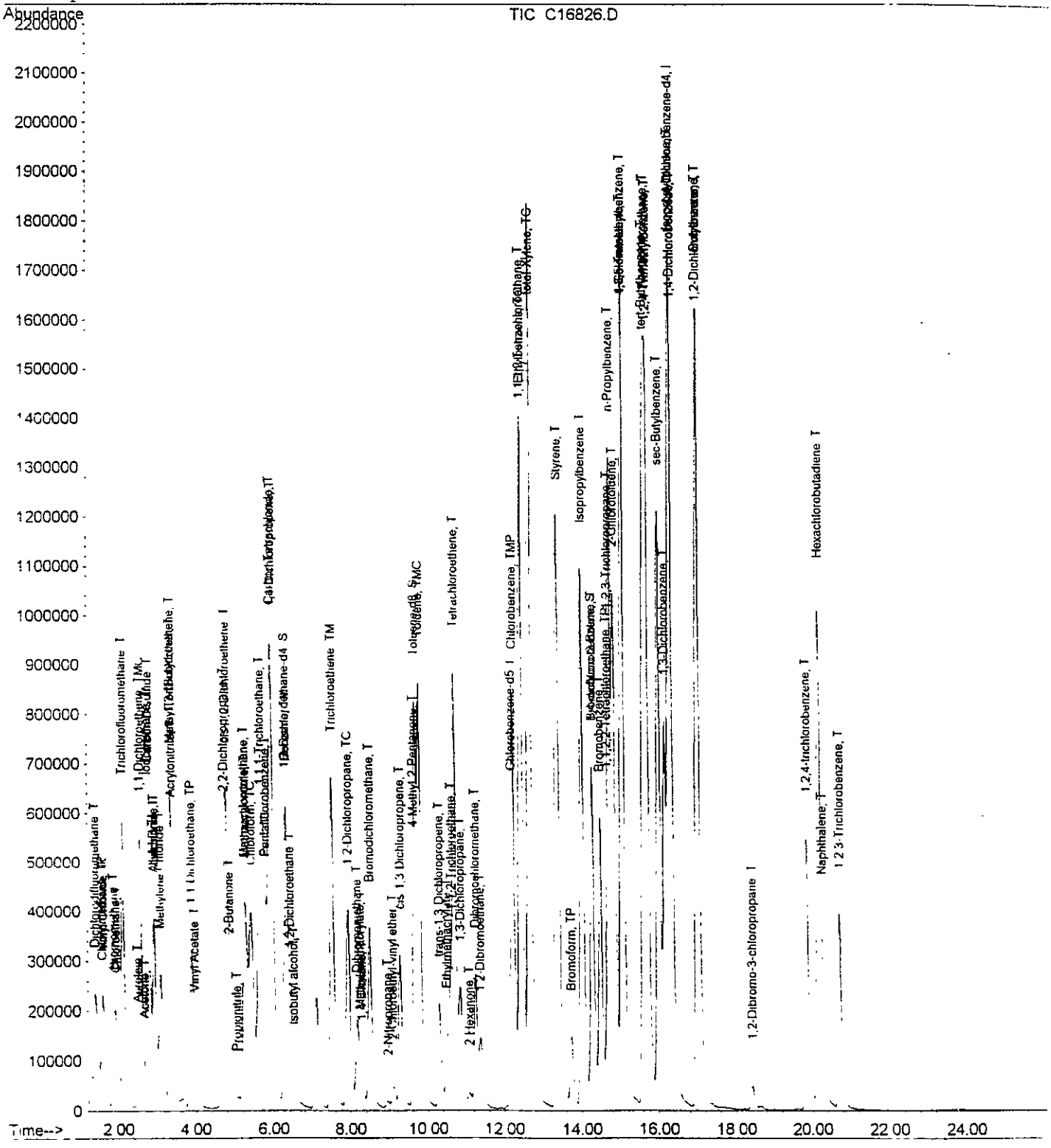
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
78)	Isopropyltoluene	16.29	119	2754744	28.44	ug\L	100
79)	1,4-Dichlorobenzene	16.35	146	1079990	29.03	ug\L	100
80)	1,2-Dichlorobenzene	16.99	146	771469	28.33	ug\L	100
81)	n-Butylbenzene	17.02	91	2971442	27.91	ug\L	98
82)	1,2-Dibromo-3-chloropropan	18.43	75	51966	32.32	ug\L	90
83)	1,2,4-trichlorobenzene	19.86	180	594516	27.08	ug\L	100
84)	Hexachlorobutadiene	20.17	225	731890	29.16	ug\L	100
85)	Naphthalene	20.28	128	529856	28.55	ug\L	100
86)	1,2,3-Trichlorobenzene	20.71	180	423506	26.13	ug\L	97

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

Quantitation Report

Data File : C:\HPCHEM\1\DATA\100200\C16826.D Vial: 5
Acq On : 2 Oct 2000 11:45 Operator: TAG/VR
Sample : ICAL 30 ppb (V00050,V00057) Inst : VOA-C
Misc : QC Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 2 12:12 2000 Quant Results File: 10020025.RES

Method : C:\HPCHEM\1\DATA\100200\10020025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Mon Oct 02 15:08:29 2000
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\100200\C16827.D Vial: 6
Acq On : 2 Oct 2000 12:16 Operator: TAG/VR
Sample : ICAL 40 ppb (V00050,V00057) Inst : VOA-C
Misc : QC Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 2 14:27 2000 Quant Results File: 10020025.RES

Quant Method : c:\hpchem\1\data\100200\10020025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Mon Oct 02 09:36:22 2000
Response via : Initial Calibration
DataAcq Meth : 10020025

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Pentafluorobenzene	5.83	168	516197	10.00	ug\L		-0.02
45) Chlorobenzene-d5	12.20	117	446161	10.00	ug\L		-0.02
61) 1,4-Dichlorobenzene-d4	16.31	152	216316	10.00	ug\L		0.00
System Monitoring Compounds							
32) 1,2-Dichloroethane-d4	6.30	65	516956	43.74	ug\L		-0.04
Spiked Amount 10.000	Range 80 - 120		Recovery = 437.40%#				
46) Toluene-d8	9.68	98	2573594	36.70	ug\L		-0.03
Spiked Amount 10.000	Range 87 - 104		Recovery = 367.00%#				
65) Bromofluorobenzene	14.29	95	1315730	40.45	ug\L		-0.02
Spiked Amount 10.000	Range 84 - 110		Recovery = 404.50%#				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.43	85	1008435	31.00	ug\L		99
3) Chloromethane	1.59	50	521398	30.39	ug\L		98
4) Vinyl Chloride	1.64	62	745876	38.02	ug\L		99
5) Bromomethane	1.89	94	523684	33.39	ug\L		98
6) Chloroethane	1.97	64	368376	28.58	ug\L		95
7) Trichlorofluoromethane	2.13	101	1707173	37.60	ug\L	#	100
8) Acrolein	2.52	56	23632	65.85	ug\L	#	59
9) Acrylonitrile	3.41	53	67840	75.65	ug\L		96
10) 1,1-Dichloroethene	2.58	96	780972	35.35	ug\L		98
11) Acetone	2.68	58	9436	36.89	ug\L		95
12) Iodomethane	2.76	142	1382614	50.87	ug\L		99
13) Allylchloride	2.94	39	671599	37.89	ug\L	#	43
14) Carbon Disulfide	2.78	76	2006107	51.27	ug\L		100
15) Acetonitrile	2.93	41	1099810	373.13	ug\L		99
16) Methylene Chloride	3.10	86	362691	37.64	ug\L	#	28
17) trans-1,2-Dichloroethene	3.36	96	800241	36.17	ug\L		97
18) MethylTertButylEther	3.36	73	719467	41.30	ug\L		100
19) 1,1-Dichloroethane	3.91	63	1420086	36.25	ug\L		99
20) Vinyl Acetate	4.00	43	447742	57.11	ug\L		95
21) 2,2-Dichloropropane	4.76	77	1386273	40.72	ug\L		99
22) cis-1,2-Dichloroethene	4.81	96	755243	37.27	ug\L		98
23) 2-Butanone	4.90	72	20613m	37.79	ug\L		
24) Propionitrile	5.08	54	118074	410.65	ug\L	#	96
25) Methacrylonitrile	5.30	41	780706	395.21	ug\L		98
26) Bromochloromethane	5.25	128	275147	40.48	ug\L		99
27) Chloroform	5.44	83	1503795	39.76	ug\L		100
28) 1,1,1-Trichloroethane	5.65	97	1510163	39.23	ug\L	#	86
29) Carbon Tetrachloride	5.94	119	1387464	41.70	ug\L		87
30) 1,4-Dioxane	8.32	88	28820	713.61	ug\L	#	86

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

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\100200\C16827.D Vial: 6
Acq On : 2 Oct 2000 12:16 Operator: TAG/VR
Sample : ICAL 40 ppb (V00050,V00057) Inst : VOA-C
Misc : QC Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 2 14:27 2000 Quant Results File: 10020025.RES

Quant Method : c:\hpchem\1\data\100200\10020025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Mon Oct 02 09:36:22 2000
Response via : Initial Calibration
DataAcq Meth : 10020025

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
31)	1,1-Dichloropropene	5.97	77	436444	11.14	ug\L	#	1
33)	Benzene	6.33	78	2300928	38.18	ug\L		100
34)	Isobutyl alcohol	6.55	43	94025	759.72	ug\L		93
35)	1,2-Dichloroethane	6.46	62	569860	42.48	ug\L		98
36)	Trichloroethene	7.54	95	1142300	43.09	ug\L		99
37)	1,2-Dichloropropane	7.95	63	801971	40.67	ug\L		98
38)	Dibromomethane	8.19	93	348897	44.76	ug\L		96
39)	Methylmethacrylate	8.28	69	156669	42.40	ug\L		89
40)	Bromodichloromethane	8.51	83	1195162	45.33	ug\L		99
41)	2-Nitropropane	8.96	43	33651	31.46	ug\L	#	100
42)	2-Chloroethyl-vinyl ether	9.11	63	111520	446.68	ug\L		95
43)	cis-1,3-Dichloropropene	9.28	75	933682	45.60	ug\L		96
44)	4-Methyl-2-Pentanone	9.62	85	48766m	64.30	ug\L		
47)	Toluene	9.81	92	1579779	34.73	ug\L		100
48	trans-1,3-Dichloropropene	10.32	75	612742	47.53	ug\L		96
49)	Ethylmethacrylate	10.51	69	391566	40.77	ug\L	#	95
50)	1,1,2-Trichloroethane	10.61	83	364551m	41.05	ug\L		
51)	Tetrachloroethene	10.72	164	854208	36.43	ug\L		98
52)	1,3-Dichloropropane	10.88	76	653521m	39.72	ug\L		
53)	2-Hexanone	11.10	43	97060	39.20	ug\L	#	97
54)	Dibromochloromethane	11.27	129	659096	46.59	ug\L		98
55)	1,2-Dibromoethane	11.39	107	457766	44.80	ug\L		99
56)	Chlorobenzene	12.25	112	1762106	37.42	ug\L		100
57)	1,1,1,2-Tetrachloroethane	12.44	131	762685	41.79	ug\L		97
58)	Ethylbenzene	12.46	91	3225781	35.16	ug\L		100
59)	total-Xylene	12.68	106	3463412m	107.09	ug\L		
60)	Styrene	13.42	104	1674440	37.13	ug\L		99
62)	Bromoform	13.74	173	305465	44.73	ug\L	#	98
63)	Isopropylbenzene	14.02	105	3785999	35.25	ug\L		99
64)	1,4-dichloro-2-Butene	14.28	75	751080	42.09	ug\L	#	100
66	Bromobenzene	14.51	156	671037	38.11	ug\L		86
67)	1,1,2,2-Tetrachloroethane	14.69	83	442110	40.57	ug\L		99
68	1,2,3-Trichloropropane	14.71	75	438330	53.56	ug\L	#	100
69	n-Propylbenzene	14.75	91	4482844	35.18	ug\L		99
70	2-Chlorotoluene	14.86	91	2371102	30.20	ug\L		97
71	4-Chlorotoluene	15.06	91	3085145	36.51	ug\L		98
72	1,3,5-Trimethylbenzene	15.08	105	2870676	34.52	ug\L		88
73	Pentachloroethane	15.68	167	490678	43.07	ug\L		96
74	tert-Butylbenzene	15.63	119	3501870	35.58	ug\L		100
75	1,2,4-Trimethylbenzene	15.72	105	2773155	34.45	ug\L		98
76	sec-Butylbenzene	16.01	105	4539172	35.09	ug\L		100
77	1,3-Dichlorobenzene	16.19	146	1320915	36.43	ug\L		100

= qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\100200\C16827.D Vial: 6
Acq On : 2 Oct 2000 12:16 Operator: TAG/VR
Sample : ICAL 40 ppb (V00050,V00057) Inst : VOA-C
Misc : QC Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 2 14:27 2000 Quant Results File: 10020025.RES

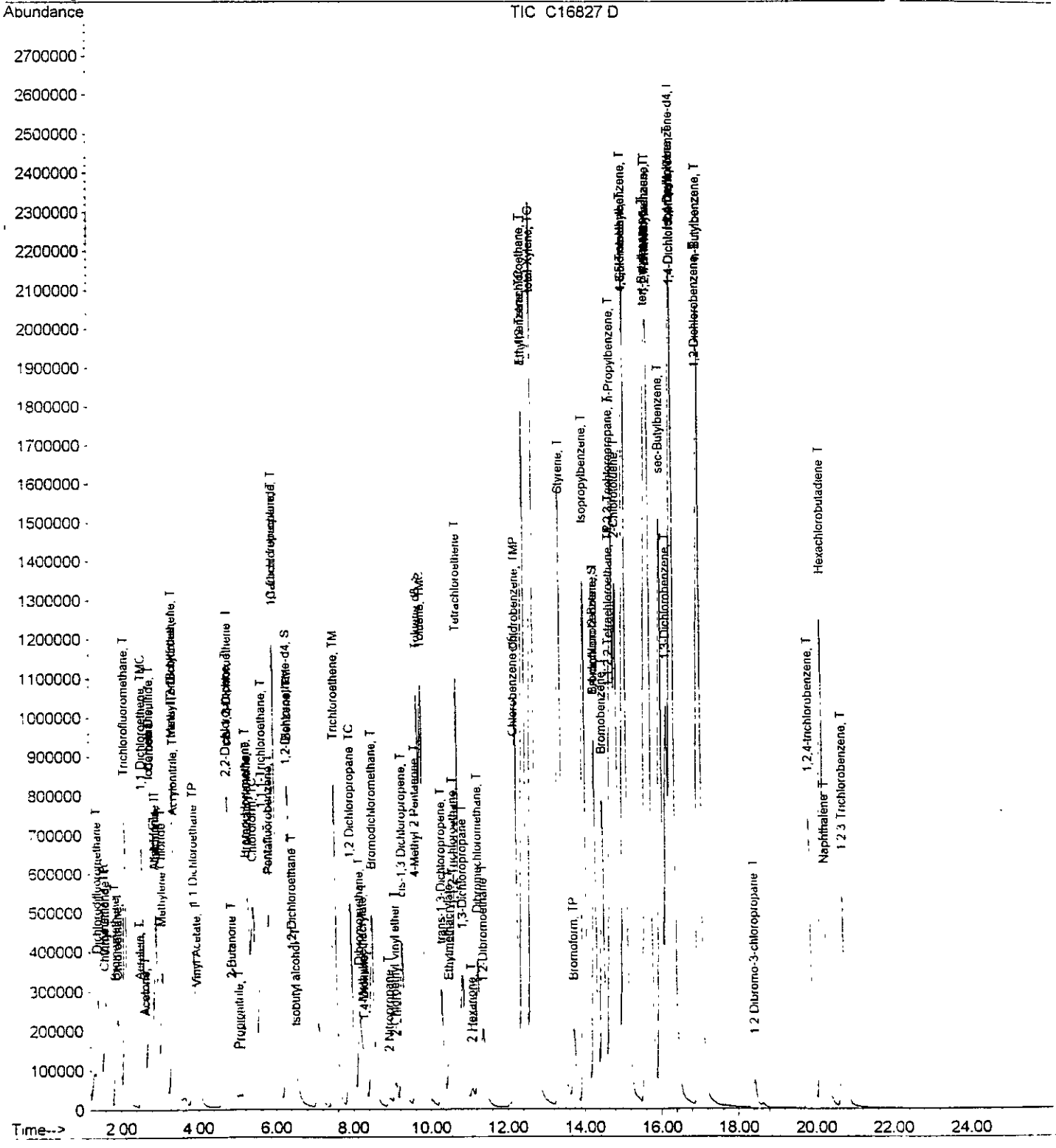
Quant Method : c:\hpchem\1\data\100200\10020025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Mon Oct 02 09:36:22 2000
Response via : Initial Calibration
DataAcq Meth : 10020025

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
78)	Isopropyltoluene	16.30	119	3418379	34.44	ug\L	100
79)	1,4-Dichlorobenzene	16.35	146	1426041	37.41	ug\L	100
80)	1,2-Dichlorobenzene	16.99	146	1043970	37.42	ug\L	99
81)	n-Butylbenzene	17.02	91	3736291	34.25	ug\L	98
82)	1,2-Dibromo-3-chloropropan	18.43	75	74267	45.08	ug\L	87
83)	1,2,4-trichlorobenzene	19.86	180	823069	36.59	ug\L	100
84)	Hexachlorobutadiene	20.18	225	913598	35.53	ug\L	100
85)	Naphthalene	20.28	128	769740	40.48	ug\L	100
86)	1,2,3-Trichlorobenzene	20.71	180	590293	35.55	ug\L	99

Quantitation Report

Data File : C:\HPCHEM\1\DATA\100200\C16827.D Vial: 6
Acq On : 2 Oct 2000 12:16 Operator: TAG/VR
Sample : ICAL 40 ppb (V00050,V00057) Inst : VOA-C
Misc : QC Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 2 14:27 2000 Quant Results File: 10020025.RES

Method : C:\HPCHEM\1\DATA\100200\10020025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Mon Oct 02 15:08:29 2000
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\100200\C16828.D Vial: 7
Acq On : 2 Oct 2000 12:46 Operator: TAG/VR
Sample : ICV 10 ppb (V00056,V00057) Inst : VOA-C
Misc : QC Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 2 13:12 2000 Quant Results File: 10020025.RES

Quant Method : c:\hpchem\1\data\100200\10020025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Mon Oct 02 09:36:22 2000
Response via : Initial Calibration
DataAcq Meth : 10020025

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Pentafluorobenzene	5.83	168	529455	10.00	ug\L		-0.03
45) Chlorobenzene-d5	12.21	117	460470	10.00	ug\L		-0.02
61) 1,4-Dichlorobenzene-d4	16.32	152	225312	10.00	ug\L		0.00
System Monitoring Compounds							
32) 1,2-Dichloroethane-d4	6.32	65	132195	10.90	ug\L		-0.03
Spiked Amount 10.000	Range 80 - 120		Recovery = 109.00%				
46) Toluene-d8	9.68	98	683480	9.44	ug\L		-0.03
Spiked Amount 10.000	Range 87 - 104		Recovery = 94.40%				
65) Bromofluorobenzene	14.30	95	348136	10.28	ug\L		-0.02
Spiked Amount 10.000	Range 84 - 110		Recovery = 102.80%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.45	85	412651	12.37	ug\L		100
3) Chloromethane	1.60	50	177812	10.10	ug\L		99
4) Vinyl Chloride	1.64	62	210917	10.48	ug\L		100
5) Bromomethane	1.91	94	186972	11.62	ug\L		98
6) Chloroethane	1.98	64	130041	9.84	ug\L		95
7) Trichlorofluoromethane	2.14	101	505642	10.86	ug\L	#	100
8) Acrolein	3.36	56	9829	27.38	ug\L		92
9) Acrylonitrile	3.41	53	18615	20.24	ug\L	#	93
10) 1,1-Dichloroethene	2.58	96	222530	9.82	ug\L		96
11) Acetone	2.66	58	2406	9.17	ug\L		74
12) Iodomethane	2.77	142	317036	11.70	ug\L		98
13) Allylchloride	2.93	39	190658	10.49	ug\L	#	44
14) Carbon Disulfide	2.79	76	504635	12.57	ug\L		100
15) Acetonitrile	2.94	41	320531	106.02	ug\L		98
16) Methylene Chloride	3.09	86	103544	10.26	ug\L	#	27
17) trans-1,2-Dichloroethene	3.36	96	234059	10.31	ug\L		96
18) MethylTertButylEther	3.37	73	198111	11.09	ug\L		99
19) 1,1-Dichloroethane	3.91	63	419941	10.45	ug\L		100
20) Vinyl Acetate	4.00	43	97423	12.11	ug\L		98
21) 2,2-Dichloropropane	4.76	77	346437	9.92	ug\L		99
22) cis-1,2-Dichloroethene	4.81	96	214453	10.32	ug\L		98
23) 2-Butanone	4.92	72	1915	5.33	ug\L	#	1
24) Propionitrile	5.09	54	30305	102.76	ug\L	#	91
25) Methacrylonitrile	5.31	41	210794	104.04	ug\L		99
26) Bromochloromethane	5.26	128	74506	10.69	ug\L		99
27) Chloroform	5.44	83	417808	10.77	ug\L		100
28) 1,1,1-Trichloroethane	5.66	97	416069	10.54	ug\L	#	79
29) Carbon Tetrachloride	5.93	119	371394	10.88	ug\L	#	75
30) 1,4-Dioxane	8.31	88	5900	148.75	ug\L	#	80

= qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\100200\C16828.D Vial: 7
Acq On : 2 Oct 2000 12:46 Operator: TAG/VR
Sample : ICV 10 ppb (V00056,V00057) Inst : VOA-C
Misc : QC Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 2 13:12 2000 Quant Results File: 10020025.RES

Quant Method : c:\hpchem\1\data\100200\10020025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Mon Oct 02 09:36:22 2000
Response via : Initial Calibration
DataAcq Meth : 10020025

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
31)	1,1-Dichloropropene	5.96	77	123307	3.07	ug\L	#	1
33)	Benzene	6.35	78	672502	10.88	ug\L		100
34)	Isobutyl alcohol	6.58	43	22831	179.85	ug\L		93
35)	1,2-Dichloroethane	6.46	62	152640	11.09	ug\L	#	90
36)	Trichloroethene	7.53	95	319664	11.76	ug\L		99
37)	1,2-Dichloropropane	7.96	63	219052	10.83	ug\L		99
38)	Dibromomethane	8.18	93	93342	11.67	ug\L		95
39)	Methylmethacrylate	8.29	69	40303	10.63	ug\L		92
40)	Bromodichloromethane	8.52	83	305855	11.31	ug\L		98
41)	2-Nitropropane	8.96	43	8549	7.79	ug\L	#	100
42)	2-Chloroethyl-vinyl ether	9.10	63	21143	85.64	ug\L	#	79
43)	cis-1,3-Dichloropropene	9.29	75	232924	11.09	ug\L		96
44)	4-Methyl-2-Pentanone	9.63	85	6626	8.52	ug\L	#	66
47)	Toluene	9.80	92	449966	9.59	ug\L		100
48)	trans-1,3-Dichloropropene	10.32	75	149720	11.25	ug\L		95
49)	Ethylmethacrylate	10.52	69	93941	9.48	ug\L	#	96
50)	1,1,2-Trichloroethane	10.62	83	93222	10.17	ug\L		93
51)	Tetrachloroethene	10.72	164	242322	10.01	ug\L		98
52)	1,3-Dichloropropane	10.89	76	171620	10.11	ug\L		99
53)	2-Hexanone	11.10	43	26909	10.53	ug\L	#	90
54)	Dibromochloromethane	11.27	129	163736	11.21	ug\L		99
55)	1,2-Dibromoethane	11.40	107	115781	10.98	ug\L		98
56)	Chlorobenzene	12.25	112	477754	9.83	ug\L		99
57)	1,1,1,2-Tetrachloroethane	12.44	131	196781	10.45	ug\L		99
58)	Ethylbenzene	12.46	91	912216	9.63	ug\L		99
59)	total-Xylene	12.68	106	954036m	28.58	ug\L		
60)	Styrene	13.41	104	450407	9.68	ug\L		98
62)	Bromoform	13.75	173	70669	10.81	ug\L		97
63)	Isopropylbenzene	14.02	105	1033182	9.24	ug\L		99
64)	1,4-dichloro-2-Butene	14.30	75	190698	10.26	ug\L	#	100
66)	Bromobenzene	14.49	156	178922	9.76	ug\L		89
67)	1,1,2,2-Tetrachloroethane	14.68	83	114495	10.09	ug\L		98
68)	1,2,3-Trichloropropane	14.70	75	86988	10.21	ug\L	#	100
69)	n-Propylbenzene	14.75	91	1275368	9.61	ug\L		98
70)	2-Chlorotoluene	14.85	91	638063	7.80	ug\L		96
71)	4-Chlorotoluene	15.07	91	873211	9.92	ug\L		98
72)	1,3,5-Trimethylbenzene	15.08	105	810175	9.35	ug\L		89
73)	Pentachloroethane	15.68	167	123750	10.43	ug\L		98
74)	tert-Butylbenzene	15.64	119	966341	9.43	ug\L		99
75)	1,2,4-Trimethylbenzene	15.74	105	798760	9.53	ug\L		98
76)	sec-Butylbenzene	16.01	105	1241791	9.22	ug\L		100
77)	1,3-Dichlorobenzene	16.19	146	366716	9.71	ug\L		98

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

Data File : C:\HPCHEM\1\DATA\100200\C16828.D Vial: 7
Acq On : 2 Oct 2000 12:46 Operator: TAG/VR
Sample : ICV 10 ppb (V00056,V00057) Inst : VOA-C
Misc : QC Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 2 13:12 2000 Quant Results File: 10020025.RES

Quant Method : c:\hpchem\1\data\100200\10020025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Mon Oct 02 09:36:22 2000
Response via : Initial Calibration
DataAcq Meth : 10020025

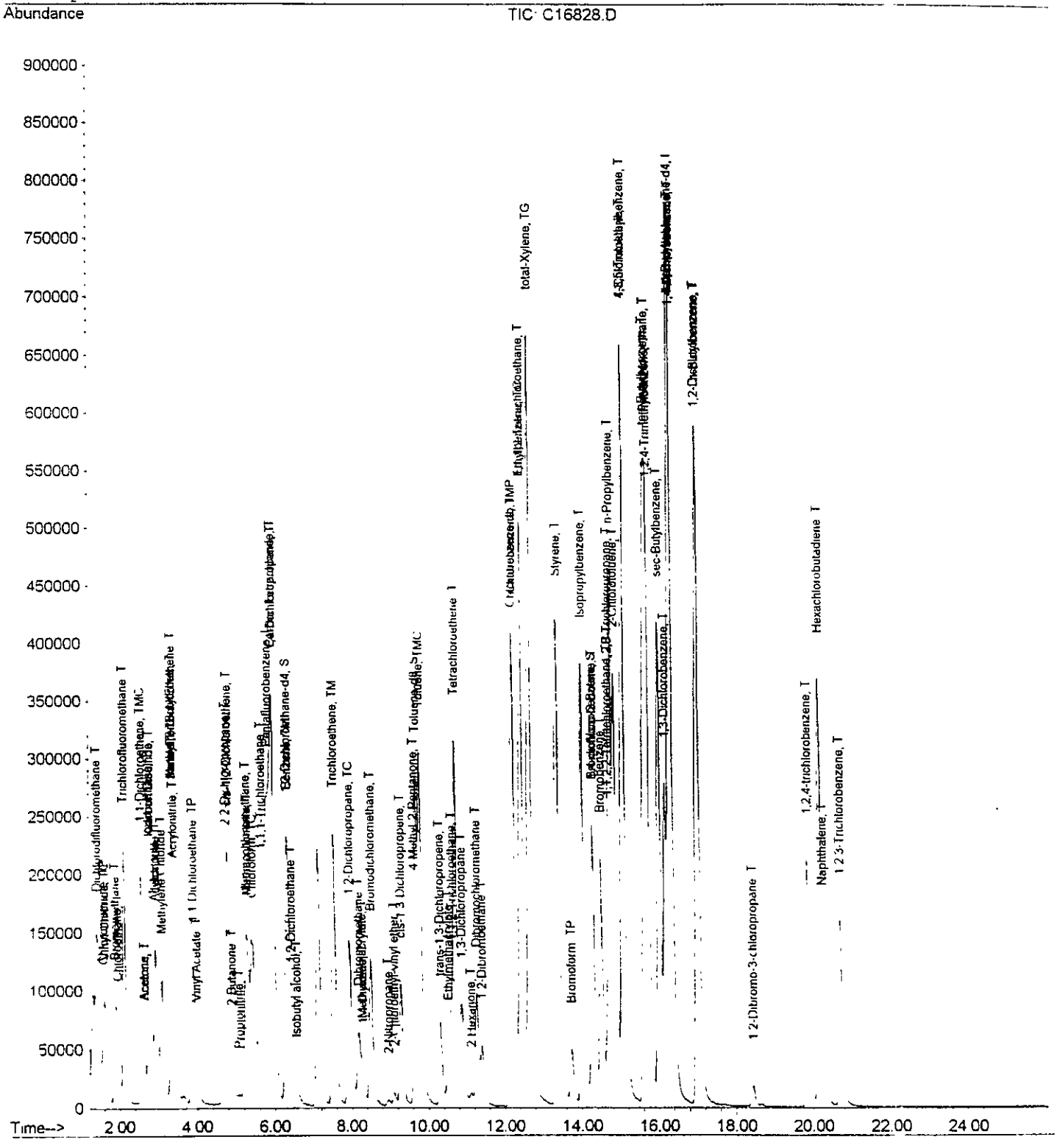
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
78)	Isopropyltoluene	16.31	119	960554	9.29	ug\L	99
79)	1,4-Dichlorobenzene	16.36	146	394242	9.93	ug\L	98
80)	1,2-Dichlorobenzene	17.00	146	282147	9.71	ug\L	98
81)	n-Butylbenzene	17.03	91	1055698	9.29	ug\L	99
82)	1,2-Dibromo-3-chloropropan	18.43	75	19665	11.46	ug\L	96
83)	1,2,4-trichlorobenzene	19.86	180	238294	10.17	ug\L	100
84)	Hexachlorobutadiene	20.18	225	262507	9.80	ug\L	100
85)	Naphthalene	20.27	128	233697	11.80	ug\L	100
86)	1,2,3-Trichlorobenzene	20.71	180	180256	10.42	ug\L	98

= qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\100200\C16828.D Vial: 7
Acq On : 2 Oct 2000 12:46 Operator: TAG/VR
Sample : ICV 10 ppb (V00056,V00057) Inst : VOA-C
Misc : QC Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 2 13:12 2000 Quant Results File: 10020025.RES

Method : C:\HPCHEM\1\DATA\100200\10020025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Mon Oct 02 15:08:29 2000
Response via : Initial Calibration



Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\100200\C16828.D
Acq On : 2 Oct 2000 12:46
Sample : ICV 10 ppb (V00056,V00057)
Misc : QC
MS Integration Params: rteint.p

Vial: 7
Operator: TAG/VR
Inst : VOA-C
Multiplr: 1.00

Method : C:\HPCHEM\1\DATA\100200\10020025.M (RTE Integrator
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Mon Oct 02 15:09:13 2000
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	AvgRF	CCRF	%Dev	Area*	Dev(min)
1	I	Pentafluorobenzene	1.000	1.000	0.0	105	0.00
2	T	Dichlorodifluoromethane	0.502	0.779	-55.2#	155#	0.00
3	TP	Chloromethane	0.271	0.336	-24.0	131	0.00
4	TC	Vinyl Chloride	0.372	0.398	-7.0	105	0.00
5	T	Bromomethane	0.329	0.353	-7.3	116	0.00
6	T	Chloroethane	0.198	0.246	-24.2	116	0.00
7	T	Trichlorofluoromethane	0.830	0.955	-15.1	113	0.00
8	T	Acrolein	0.005	0.009	-80.0#	158#	0.00
9	T	Acrylonitrile	0.017	0.018	-5.9	104	0.00
10	TMC	1,1-Dichloroethene	0.387	0.420	-8.5	109	0.00
11	T	Acetone	0.005	0.005	0.0	92	0.00
12	T	Iodomethane	0.652	0.599	8.1	93	0.00
13	T	Allylchloride	0.311	0.360	-15.8	115	0.00
14	T	Carbon Disulfide	0.931	0.953	-2.4	98	0.00
15	T	Acetonitrile	0.040	0.061	-52.5#	112	0.00
16	T	Methylene Chloride	0.187	0.196	-4.8	109	0.00
17	T	trans-1,2-Dichloroethene	0.395	0.442	-11.9	112	0.00
18	T	MethylTertButylEther	0.338	0.374	-10.7	110	0.00
19	TP	1,1-Dichloroethane	0.695	0.793	-14.1	114	0.00
20	T	Vinyl Acetate	0.189	0.184	2.6	98	0.00
21	T	2,2-Dichloropropane	0.620	0.654	-5.5	105	0.00
22	T	cis-1,2-Dichloroethene	0.371	0.405	-9.2	110	0.00
23	T	2-Butanone	0.009	0.004	55.6#	41#	0.00
24	T	Propionitrile	0.005	0.006	-20.0	105	0.00
25	T	Methacrylonitrile	0.037	0.040	-8.1	109	0.00
26	T	Bromochloromethane	0.131	0.141	-7.6	107	0.00
27	TC	Chloroform	0.723	0.789	-9.1	110	0.00
28	T	1,1,1-Trichloroethane	0.715	0.786	-9.9	112	0.00
29	T	Carbon Tetrachloride	0.646	0.701	-8.5	108	0.00
30	T	1,4-Dioxane	0.001	0.001	0.0	102	0.00
31	T	1,1-Dichloropropene	0.215	0.233	-8.4	108	0.00
32	S	1,2-Dichloroethane-d4	0.252	0.250	0.8	102	0.00
33	TM	Benzene	1.133	1.270	-12.1	112	0.00
34	T	Isobutyl alcohol	0.002	0.002	0.0	102	0.00
35	T	1,2-Dichloroethane	0.268	0.288	-7.5	106	0.00
36	TM	Trichloroethene	0.558	0.604	-8.2	110	0.00
37	TC	1,2-Dichloropropane	0.380	0.414	-8.9	110	0.00
38	T	Dibromomethane	0.160	0.176	-10.0	109	0.00
39	T	Methylmethacrylate	0.071	0.076	-7.0	106	0.00
40	T	Bromodichloromethane	0.526	0.578	-9.9	108	0.00
41	T	2-Nitropropane	0.014	0.016	-14.3	127	0.00
42	T	2-Chloroethyl-vinyl ether	0.045	0.040	11.1	100	0.00

#, = Out of Range

Data File : C:\HPCHEM\1\DATA\100200\C16828.D Vial: 7
Acq On : 2 Oct 2000 12:46 Operator: TAG/VR
Sample : ICV 10 ppb (V00056,V00057) Inst : VOA-C
Misc : QC Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\HPCHEM\1\DATA\100200\10020025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Mon Oct 02 15:09:13 2000
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	AvgRF	CCRF	%Dev	Area%	Dev(min)
3	T	cis-1,3-Dichloropropene	0.407	0.440	-8.1	108	0.00
4	T	4-Methyl-2-Pentanone	0.018	0.013	27.8#	60	0.00
5	I	Chlorobenzene-d5	1.000	1.000	0.0	107	0.00
6	S	Toluene-d8	1.540	1.484	3.6	103	0.00
7	TMC	Toluene	0.925	0.977	-5.6	111	0.00
8	T	trans-1,3-Dichloropropene	0.307	0.325	-5.9	108	0.00
9	T	Ethylmethacrylate	0.205	0.204	0.5	105	0.00
0	T	1,1,2-Trichloroethane	0.200	0.202	-1.0	103	0.00
1	T	Tetrachloroethene	0.520	0.526	-1.2	109	0.00
2	T	1,3-Dichloropropane	0.367	0.373	-1.6	104	0.00
3	T	2-Hexanone	0.051	0.058	-13.7	113	0.00
4	T	Dibromochloromethane	0.331	0.356	-7.6	108	0.00
5	T	1,2-Dibromoethane	0.244	0.251	-2.9	105	0.00
6	TMP	Chlorobenzene	1.013	1.038	-2.5	108	0.00
7	T	1,1,1,2-Tetrachloroethane	0.419	0.427	-1.9	106	0.00
8	TC	Ethylbenzene	1.877	1.981	-5.5	110	0.00
9	TG	total-Xylene	0.666	0.691	-3.8	107	0.00
0	T	Styrene	0.944	0.978	-3.6	107	0.00
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	105	0.00
2	TP	Bromoform	0.286	0.314	-9.8	107	0.00
3	T	Isopropylbenzene	4.410	4.586	-4.0	106	0.00
4	T	1,4-dichloro-2-Butene	0.991	0.846	14.6	102	0.00
5	S	Bromofluorobenzene	1.531	1.545	-0.9	104	0.00
6	T	Bromobenzene	0.752	0.794	-5.6	106	0.00
7	TP	1,1,2,2-Tetrachloroethane	0.478	0.508	-6.3	103	0.00
8	T	1,2,3-Trichloropropane	0.481	0.386	19.8	70	0.00
9	T	n-Propylbenzene	5.210	5.660	-8.6	107	0.00
0	T	2-Chlorotoluene	2.841	2.832	0.3	106	0.00
1	T	4-Chlorotoluene	3.582	3.876	-8.2	108	0.00
2	T	1,3,5-Trimethylbenzene	3.318	3.596	-8.4	110	0.00
3	T	Pentachloroethane	0.500	0.549	-9.8	106	0.00
4	T	tert-Butylbenzene	4.041	4.289	-6.1	106	0.00
5	T	1,2,4-Trimethylbenzene	3.239	3.545	-9.4	110	0.00
6	T	sec-Butylbenzene	5.244	5.511	-5.1	106	0.00
7	T	1,3-Dichlorobenzene	1.516	1.628	-7.4	112	0.00
8	T	Isopropyltoluene	3.983	4.263	-7.0	109	0.00
9	T	1,4-Dichlorobenzene	1.677	1.750	-4.4	103	0.00
0	T	1,2-Dichlorobenzene	1.200	1.252	-4.3	105	0.00
1	T	n-Butylbenzene	4.362	4.685	-7.4	108	0.00
2	T	1,2-Dibromo-3-chloropropane	0.078	0.087	-11.5	113	0.00

(#) = Out of Range

Data File : C:\HPCHEM\1\DATA\100200\C16828.D Vial: 7
Acq On : 2 Oct 2000 12:46 Operator: TAG/VR
Sample : ICV 10 ppb (V00056,V00057) Inst : VOA-C
Misc : QC Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\HPCHEM\1\DATA\100200\10020025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Mon Oct 02 15:09:13 2000
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%

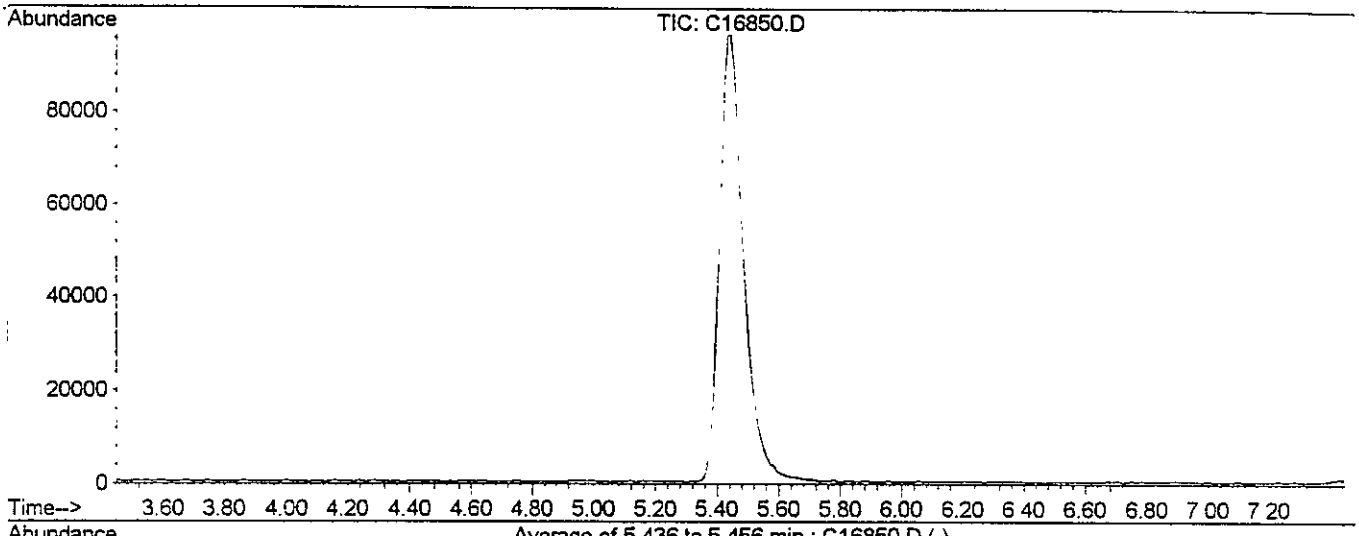
		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
33	T	1,2,4-trichlorobenzene	0.899	1.058	-17.7	119	0.00
34	T	Hexachlorobutadiene	1.089	1.165	-7.0	109	0.00
35	T	Naphthalene	0.786	1.037	-31.9#	133	0.00
36	T	1,2,3-Trichlorobenzene	0.650	0.800	-23.1	123	0.00

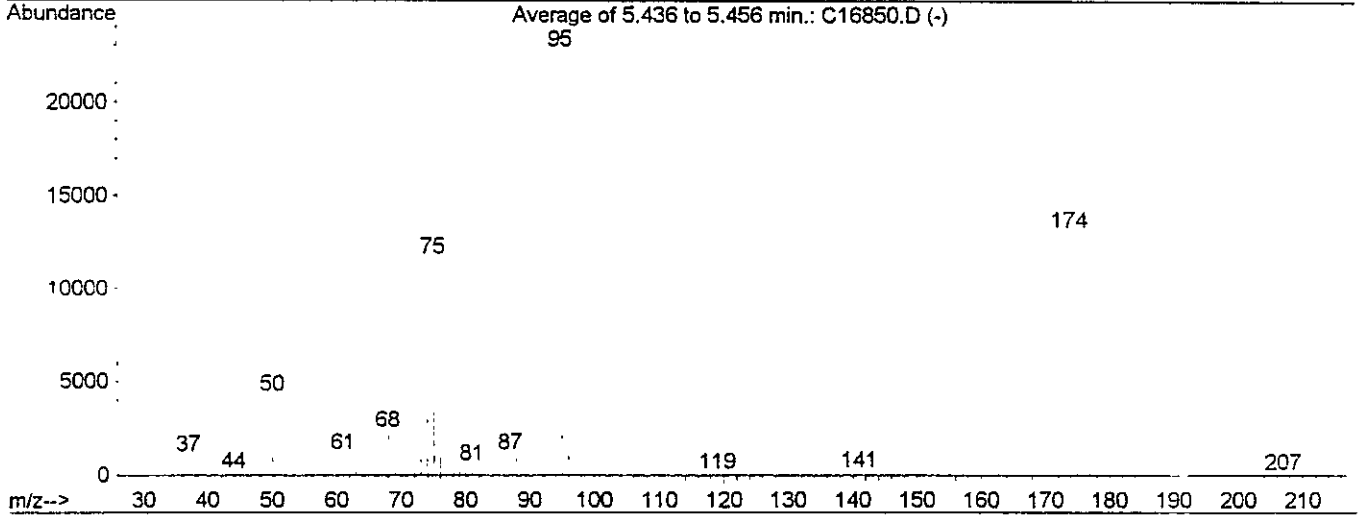
(#) = Out of Range SPCC's out = 0 CCC's out = 0

BFB

Data File : C:\HPCHEM\1\DATA\100300\C16850.D
Acq On : 3 Oct 2000 9:24
Sample : BFB 50ng V00048
Misc : QC
MS Integration Params: rteint.p
Method : c:\hpchem\1\methods\BFB01.M (RTE Integrator)
Title :

Vial: 1
Operator: TAG/VR
Inst : VOA-C
Multiplr: 1.00





AutoFind: Scans 428, 429, 430; Background Corrected with Scan 416

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	18.4	4214	PASS
75	95	30	60	50.7	11596	PASS
95	95	100	100	100.0	22893	PASS
96	95	5	9	6.4	1454	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	56.9	13019	PASS
175	174	5	9	7.0	916	PASS
176	174	95	101	98.0	12756	PASS
177	176	5	9	6.1	783	PASS

C16850.D BFB01.M Tue Oct 03 09:37:10 2000 RPT1

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\100300\C16851.D Vial: 1
Acq On : 3 Oct 2000 9:45 Operator: TAG/VR
Sample : CCV 10 ppb (V00050,V00057) Inst : VOA-C
Misc : QC Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 3 10:11 2000 Quant Results File: 10030025.RES

Quant Method : C:\HPCHEM\1\DATA\100300\10030025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Mon Oct 02 15:08:29 2000
Response via : Initial Calibration
DataAcq Meth : 10030025

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Pentafluorobenzene	5.80	168	543739	10.00	ug\L		-0.02
45) Chlorobenzene-d5	12.19	117	452291	10.00	ug\L		-0.01
61) 1,4-Dichlorobenzene-d4	16.32	152	223666	10.00	ug\L		0.00
System Monitoring Compounds							
32) 1,2-Dichloroethane-d4	6.32	65	126498	9.22	ug\L		0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 92.20%				
46) Toluene-d8	9.68	98	687582	9.87	ug\L		0.00
Spiked Amount 10.000	Range 87 - 104		Recovery = 98.70%				
65) Bromofluorobenzene	14.29	95	342113	9.99	ug\L		0.00
Spiked Amount 10.000	Range 84 - 110		Recovery = 99.90%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.41	85	246403	9.03	ug\L		99
3) Chloromethane	1.59	50	133490	9.07	ug\L		95
4) Vinyl Chloride	1.63	62	191731	9.49	ug\L		100
5) Bromomethane	1.88	94	163733	9.31	ug\L		98
6) Chloroethane	1.96	64	103568	9.61	ug\L		93
7) Trichlorofluoromethane	2.12	101	451065	9.99	ug\L	#	100
8) Acrolein	3.34	56	8668	28.48	ug\L		94
9) Acrylonitrile	3.40	53	16473	17.75	ug\L	#	95
10) 1,1-Dichloroethene	2.58	96	206648	9.82	ug\L		99
11) Acetone	2.68	58	1905	7.46	ug\L	#	24
12) Iodomethane	2.76	142	291503	8.22	ug\L		99
13) Allylchloride	2.92	39	169809	10.05	ug\L	#	28
14) Carbon Disulfide	2.79	76	519973	10.27	ug\L		100
15) Acetonitrile	2.93	41	281670	105.09	ug\L		99
16) Methylene Chloride	3.09	86	94181	9.47	ug\L	#	27
17) trans-1,2-Dichloroethene	3.36	96	215750	10.04	ug\L		99
18) MethylTertButylEther	3.35	73	172870	9.41	ug\L		100
19) 1,1-Dichloroethane	3.89	63	367704	9.74	ug\L		99
21) Vinyl Acetate	4.00	43	94588	8.85	ug\L	#	94
22) 2,2-Dichloropropane	4.74	77	327107	9.71	ug\L		99
23) cis-1,2-Dichloroethene	4.81	96	201982	10.02	ug\L		98
24) 2-Butanone	4.90	72	1897	3.83	ug\L	#	21
25) Propionitrile	5.10	54	11774	40.42	ug\L	#	57
26) Methacrylonitrile	5.29	41	186051	93.49	ug\L		99
27) Bromochloromethane	5.25	128	68878	9.67	ug\L		98
28) Chloroform	5.44	83	391685	9.96	ug\L		100
29) 1,1,1-Trichloroethane	5.65	97	387457	9.97	ug\L	#	75
30) Carbon Tetrachloride	5.92	119	345326	9.83	ug\L	#	72
31) 1,4-Dioxane	8.32	88	1024	41.62	ug\L	#	1

= qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\100300\C16851.D Vial: 1
Acq On : 3 Oct 2000 9:45 Operator: TAG/VR
Sample : CCV 10 ppb (V00050,V00057) Inst : VOA-C
Misc : QC Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 3 10:11 2000 Quant Results File: 10030025.RES

Quant Method : C:\HPCHEM\1\DATA\100300\10030025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Mon Oct 02 15:08:29 2000
Response via : Initial Calibration
DataAcq Meth : 10030025

	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
31)	1,1-Dichloropropene	5.95	77	115062	9.84 ug\L	#	1
33)	Benzene	6.34	78	615745	10.00 ug\L		100
34)	Isobutyl alcohol	6.56	43	19067	163.49 ug\L	#	84
35)	1,2-Dichloroethane	6.45	62	137738	9.47 ug\L		98
36)	Trichloroethene	7.53	95	300056	9.89 ug\L		96
37)	1,2-Dichloropropane	7.94	63	204280	9.89 ug\L	#	95
38)	Dibromomethane	8.17	93	83018	9.55 ug\L		94
39)	Methylmethacrylate	8.27	69	36741	9.57 ug\L		88
40)	Bromodichloromethane	8.52	83	276872	9.19 ug\L		98
41)	2-Nitropropane	8.97	43	6746	9.01 ug\L	#	100
42)	2-Chloroethyl-vinyl ether	9.10	63	11851	6.01 ug\L	#	75
43)	cis-1,3-Dichloropropene	9.28	75	219906	9.93 ug\L		96
44	4-Methyl-2-Pentanone	9.61	85	6462	6.34 ug\L	#	1
47	Toluene	9.80	92	414370	9.90 ug\L		99
48)	trans-1,3-Dichloropropene	10.32	75	134781	9.22 ug\L		94
49)	Ethylmethacrylate	10.52	69	89714	9.69 ug\L	#	94
50	1,1,2-Trichloroethane	10.62	83	88607	9.80 ug\L		92
51)	Tetrachloroethene	10.71	164	238450	10.14 ug\L		97
52	1,3-Dichloropropane	10.86	76	161938	9.77 ug\L		99
53	2-Hexanone	11.11	43	22849	9.88 ug\L	#	89
54	Dibromochloromethane	11.27	129	141120	8.84 ug\L		100
55	1,2-Dibromoethane	11.40	107	105583	9.58 ug\L		98
56	Chlorobenzene	12.24	112	457013	9.97 ug\L		99
57	1,1,1,2-Tetrachloroethane	12.43	131	195415	10.32 ug\L		96
58	Ethylbenzene	12.46	91	856062	10.08 ug\L		100
59)	total-Xylene	12.68	106	933283m	30.99 ug\L		
60)	Styrene	13.41	104	430562	10.08 ug\L		98
62)	Bromoform	13.73	173	59638	8.54 ug\L	#	95
63	Isopropylbenzene	14.03	105	1012450	10.26 ug\L		99
64)	1,4-dichloro-2-Butene	14.29	75	187182	9.50 ug\L	#	100
66	Bromobenzene	14.50	156	171103	10.17 ug\L		84
67	1,1,2,2-Tetrachloroethane	14.68	83	103355	9.07 ug\L		98
68	1,2,3-Trichloropropane	14.70	75	104939	9.74 ug\L	#	100
69	n-Propylbenzene	14.75	91	1213557	10.41 ug\L		99
70	2-Chlorotoluene	14.85	91	623705	9.82 ug\L		97
71)	4-Chlorotoluene	15.06	91	830663	10.37 ug\L		97
72	1,3,5-Trimethylbenzene	15.07	105	768919	10.36 ug\L		89
73	Pentachloroethane	15.69	167	110430	9.10 ug\L		98
74	tert-Butylbenzene	15.64	119	931828	10.31 ug\L		98
75	1,2,4-Trimethylbenzene	15.72	105	756355	10.44 ug\L		98
76	sec-Butylbenzene	16.02	105	1216947	10.38 ug\L		100
77	1,3-Dichlorobenzene	16.19	146	344839	10.17 ug\L		99

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

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\100300\C16851.D Vial: 1
Acq On : 3 Oct 2000 9:45 Operator: TAG/VR
Sample : CCV 10 ppb (V00050,V00057) Inst : VOA-C
Misc : QC Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 3 10:11 2000 Quant Results File: 10030025.RES

Quant Method : C:\HPCHEM\1\DATA\100300\10030025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Mon Oct 02 15:08:29 2000
Response via : Initial Calibration
DataAcq Meth : 10030025

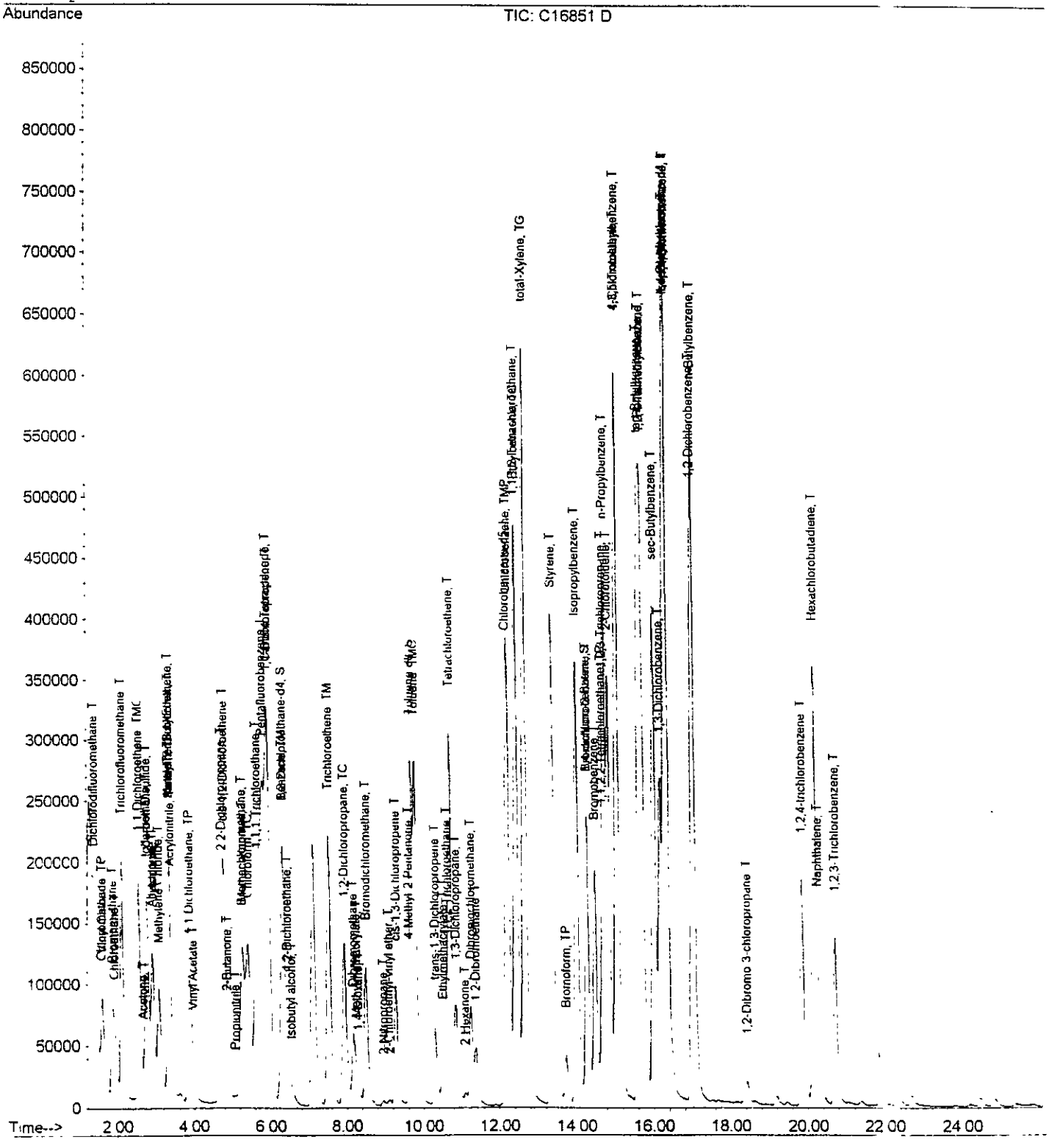
Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
78) Isopropyltoluene	16.31	119	915921	10.28	ug\L		99
79) 1,4-Dichlorobenzene	16.36	146	375997	10.02	ug\L		100
80) 1,2-Dichlorobenzene	16.99	146	271032	10.09	ug\L		99
81) n-Butylbenzene	17.03	91	1010281	10.36	ug\L		98
82) 1,2-Dibromo-3-chloropropan	18.43	75	16854	9.06	ug\L	#	81
83) 1,2,4-trichlorobenzene	19.86	180	207696	10.33	ug\L		100
84) Hexachlorobutadiene	20.18	225	260998	10.72	ug\L		100
85) Naphthalene	20.28	128	220931	11.74	ug\L		100
86) 1,2,3-Trichlorobenzene	20.72	180	148479	10.21	ug\L		98

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

Quantitation Report

Data File : C:\HPCHEM\1\DATA\100300\C16851.D Vial: 1
Acq On : 3 Oct 2000 9:45 Operator: TAG/VR
Sample : CCV 10 ppb (V00050,V00057) Inst : VOA-C
Misc : QC Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 3 10:11 2000 Quant Results File: 10030025.RES

Method : C:\HPCHEM\1\DATA\100300\10030025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Mon Oct 02 15:08:29 2000
Response via : Initial Calibration



Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\100300\C16851.D Vial: 1
Acq On : 3 Oct 2000 9:45 Operator: TAG/VR
Sample : CCV 10 ppb (V00050,V00057) Inst : VOA-C
Misc : QC Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\HPCHEM\1\DATA\100300\10030025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Mon Oct 02 15:08:29 2000
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	AvgRF	CCRF	%Dev	Area*	Dev(min)
1	I	Pentafluorobenzene	1.000	1.000	0.0	108	-0.02
2	T	Dichlorodifluoromethane	0.502	0.453	9.8	93	-0.03
3	TP	Chloromethane	0.271	0.246	9.2	98	0.00
4	TC	Vinyl Chloride	0.372	0.353	5.1	96	-0.01
5	T	Bromomethane	0.329	0.301	8.5	101	-0.03
6	T	Chloroethane	0.198	0.190	4.0	93	-0.02
7	T	Trichlorofluoromethane	0.830	0.830	0.0	100	-0.01
8	T	Acrolein	0.005	0.008	-60.0#	140	-0.02
9	T	Acrylonitrile	0.017	0.015	11.8	92	-0.01
10	TMC	1,1-Dichloroethene	0.387	0.380	1.8	101	0.00
11	T	Acetone	0.005	0.004	20.0	73	0.02
12	T	Iodomethane	0.652	0.536	17.8	86	-0.01
13	T	Allylchloride	0.311	0.312	-0.3	103	0.00
14	T	Carbon Disulfide	0.931	0.956	-2.7	101	0.00
15	T	Acetonitrile	0.040	0.052	-30.0#	98	0.00
16	T	Methylene Chloride	0.187	0.173	7.5	99	0.00
17	T	trans-1,2-Dichloroethene	0.395	0.397	-0.5	104	0.00
18	T	MethylTertButylEther	0.338	0.318	5.9	96	-0.02
19	TP	1,1-Dichloroethane	0.695	0.676	2.7	100	-0.02
20	T	Vinyl Acetate	0.189	0.174	7.9	96	0.00
21	T	2,2-Dichloropropane	0.620	0.602	2.9	99	-0.02
22	T	cis-1,2-Dichloroethene	0.371	0.371	0.0	103	0.00
23	T	2-Butanone	0.009	0.003	66.7#	40#	-0.02
24	T	Propionitrile	0.005	0.002	60.0#	41#	0.02
25	T	Methacrylonitrile	0.037	0.034	8.1	96	-0.02
26	T	Bromochloromethane	0.131	0.127	3.1	99	-0.01
27	TC	Chloroform	0.723	0.720	0.4	103	0.00
28	T	1,1,1-Trichloroethane	0.715	0.713	0.3	104	-0.01
29	T	Carbon Tetrachloride	0.646	0.635	1.7	101	-0.01
30	T	1,4-Dioxane	0.001	0.000	100.0#	18#	0.00
31	T	1,1-Dichloropropene	0.215	0.212	1.4	100	-0.01
32	S	1,2-Dichloroethane-d4	0.252	0.233	7.5	98	0.00
33	TM	Benzene	1.133	1.132	0.1	103	-0.01
34	T	Isobutyl alcohol	0.002	0.002	0.0	85	-0.01
35	T	1,2-Dichloroethane	0.268	0.253	5.6	95	0.00
36	TM	Trichloroethene	0.558	0.552	1.1	103	0.00
37	TC	1,2-Dichloropropane	0.380	0.376	1.1	102	-0.01
38	T	Dibromomethane	0.160	0.153	4.4	97	-0.01
39	T	Methylmethacrylate	0.071	0.068	4.2	96	-0.02
40	T	Bromodichloromethane	0.526	0.509	3.2	98	0.00
41	T	2-Nitropropane	0.014	0.012	14.3	100	0.00
42	T	2-Chloroethyl-vinyl ether	0.045	0.022	51.1#	56	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\100300\C16851.D Vial: 1
Acq On : 3 Oct 2000 9:45 Operator: TAG/VR
Sample : CCV 10 ppb (V00050,V00057) Inst : VOA-C
Misc : QC Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\HPCHEM\1\DATA\100300\10030025.M (RTE Integrator
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Mon Oct 02 15:08:29 2000
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	AvgRF	CCRF	%Dev	Area*	Dev(min)
3	T	cis-1,3-Dichloropropene	0.407	0.404	0.7	102	0.00
4	T	4-Methyl-2-Pentanone	0.018	0.012	33.3#	58	-0.02
5	I	Chlorobenzene-d5	1.000	1.000	0.0	105	-0.01
6	S	Toluene-d8	1.540	1.520	1.3	104	0.00
7	TMC	Toluene	0.925	0.916	1.0	102	0.00
8	T	trans-1,3-Dichloropropene	0.307	0.298	2.9	97	0.00
9	T	Ethylmethacrylate	0.205	0.198	3.4	100	0.00
0	T	1,1,2-Trichloroethane	0.200	0.196	2.0	98	0.00
1	T	Tetrachloroethene	0.520	0.527	-1.3	108	0.00
2	T	1,3-Dichloropropane	0.367	0.358	2.5	98	-0.02
3	T	2-Hexanone	0.051	0.051	0.0	96	0.00
4	T	Dibromochloromethane	0.331	0.312	5.7	93	0.00
5	T	1,2-Dibromoethane	0.244	0.233	4.5	96	0.00
6	TMP	Chlorobenzene	1.013	1.010	0.3	103	0.00
7	T	1,1,1,2-Tetrachloroethane	0.419	0.432	-3.1	105	-0.01
8	TC	Ethylbenzene	1.877	1.893	-0.9	103	0.00
9	TG	total-Xylene	0.666	0.688	-3.3	105	0.00
0	T	Styrene	0.944	0.952	-0.8	102	0.00
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	105	0.00
2	TP	Bromoform	0.286	0.267	6.6	90	-0.01
3	T	Isopropylbenzene	4.410	4.527	-2.7	104	0.00
4	T	1,4-dichloro-2-Butene	0.991	0.837	15.5	100	0.00
5	S	Bromofluorobenzene	1.531	1.530	0.1	102	0.00
6	T	Bromobenzene	0.752	0.765	-1.7	102	0.00
7	TP	1,1,2,2-Tetrachloroethane	0.478	0.462	3.3	93	0.00
8	T	1,2,3-Trichloropropane	0.481	0.469	2.5	85	0.00
9	T	n-Propylbenzene	5.210	5.426	-4.1	102	0.00
0	T	2-Chlorotoluene	2.841	2.789	1.8	103	0.00
1	T	4-Chlorotoluene	3.582	3.714	-3.7	103	0.00
2	T	1,3,5-Trimethylbenzene	3.318	3.438	-3.6	104	0.00
3	T	Pentachloroethane	0.500	0.494	1.2	95	0.00
4	T	tert-Butylbenzene	4.041	4.166	-3.1	102	0.00
5	T	1,2,4-Trimethylbenzene	3.239	3.382	-4.4	104	-0.01
6	T	sec-Butylbenzene	5.244	5.441	-3.8	104	0.00
7	T	1,3-Dichlorobenzene	1.516	1.542	-1.7	105	0.00
8	T	Isopropyltoluene	3.983	4.095	-2.8	104	0.00
9	T	1,4-Dichlorobenzene	1.677	1.681	-0.2	99	0.00
0	T	1,2-Dichlorobenzene	1.200	1.212	-1.0	101	-0.01
1	T	n-Butylbenzene	4.362	4.517	-3.6	103	0.00
2	T	1,2-Dibromo-3-chloropropane	0.078	0.075	3.8	97	0.00

#) = Out of Range

Data File : C:\HPCHEM\1\DATA\100300\C16851.D Vial: 1
Acq On : 3 Oct 2000 9:45 Operator: TAG/VR
Sample : CCV 10 ppb (V00050,V00057) Inst : VOA-C
Misc : QC Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\HPCHEM\1\DATA\100300\10030025.M (RTE Integrator
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Mon Oct 02 15:08:29 2000
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	AvgRF	CCRF	%Dev	Area%	Dev(min)
33	T	1,2,4-trichlorobenzene	0.899	0.929	-3.3	104	0.00
34	T	Hexachlorobutadiene	1.089	1.167	-7.2	108	0.00
35	T	Naphthalene	0.786	0.988	-25.7#	126	0.00
36	T	1,2,3-Trichlorobenzene	0.650	0.664	-2.2	101	0.02

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\100300\C16853.D
Acq On : 3 Oct 2000 11:16
Sample : WATER BLANK 25ml DF=1
Misc : QC
MS Integration Params: rteint.p
Quant Time: Oct 3 11:43 2000

Vial: 2
Operator: TAG/VR
Inst : VOA-C
Multiplr: 1.00

Quant Results File: 10030025.RES

Quant Method : C:\HPCHEM\1\DATA\100300\10030025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Mon Oct 02 15:08:29 2000
Response via : Initial Calibration
DataAcq Meth : 10030025

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Pentafluorobenzene	5.82	168	572497	10.00 ug\L	0.00
45) Chlorobenzene-d5	12.20	117	456911	10.00 ug\L	0.00
61) 1,4-Dichlorobenzene-d4	16.32	152	217853	10.00 ug\L	0.00
System Monitoring Compounds					
32) 1,2-Dichloroethane-d4	6.31	65	117757	8.15 ug\L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery =	81.50%	
46) Toluene-d8	9.69	98	676252	9.61 ug\L	0.00
Spiked Amount 10.000	Range 87 - 104		Recovery =	96.10%	
65) Bromofluorobenzene	14.29	95	324720	9.74 ug\L	0.00
Spiked Amount 10.000	Range 84 - 110		Recovery =	97.40%	
Target Compounds					Qvalue
15) Acetonitrile	3.09	41	8065	~~13.55 ug\L #~~	42
20) Vinyl Acetate	3.64	43	768	~~0.72 ug\L #~~	73
36) Trichloroethene	7.12	95	18407	~~0.58 ug\L #~~	9
64) 1,4-dichloro-2-Butene	14.30	75	167039	~~8.68 ug\L #~~	100
68) 1,2,3-Trichloropropane	14.30	75	159234	~~15.18 ug\L #~~	100
85) Naphthalene	20.29	128	3707	0.81 ug\L	100

< ½ RDL

VR
10/3/00

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

Quantitation Report

Data File : C:\HPCHEM\1\DATA\100300\C16853.D Vial: 2
Acq On : 3 Oct 2000 11:16 Operator: TAG/VR
Sample : WATER BLANK 25ml DF=1 Inst : VOA-C
Misc : QC Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 3 11:43 2000 Quant Results File: 10030025.RES

Method : C:\HPCHEM\1\DATA\100300\10030025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Mon Oct 02 15:08:29 2000
Response via : Initial Calibration

VOA GC/MS QC CHECKLIST
SW-846-8260B

Project Specific Q·C

BATCH #: C100200025·M	METHOD: 8260B
MATRIX: water	

Are BS/BSD/MS/MSD recoveries within recovery ranges?	(Y)	N	NA
Is/Are blank result(s) less than 1/2 RDL for analytes of interest?	(Y)	N	NA
Are all surrogate recoveries within recovery ranges?	(Y)	N	NA
Are all Internal Standard areas w/in -50% to +100% of that in the CCV?	(Y)	N	NA
Are all Internal Standard retention times w/in 30 seconds of that in the CCV?	(Y)	N	NA
Are all MS/MSD compounds below the high standard?	(Y)	N	NA
Were sample analyses performed within holding times?	(Y)	N	NA
Were analyses performed such that carryover was not a problem?	(Y)	N	NA
Is the run log completely filled out (including review signature/date)?	(Y)	N	NA
Are all mistakes single lined out, initialled, & dated?	(Y)	N	NA

Analyst: VR	Reviewer:
Date: 10/3/00 Time: 18:05	Date: Time:

Spike Recovery and RPD Summary Report - WATER

Method : c:\hpchem\1\data\100300\10030025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Mon Oct 02 15:08:29 2000
Response via : Initial Calibration

Non-Spiked Sample: C16861.D

	Spike Sample	Spike Duplicate Sample
File ID :	C16862.D	C16863.D
Sample :	AC00431MS 25ml DF=1	AC00431MSD 25ml DF=1
Acq Time:	3 Oct 2000 16:09	3 Oct 2000 16:39

Compound	Sample Conc	Spike Added	Spike Res	Dup Res	Spike %Rec	Dup %Rec	RPD	QC Limits RPD	QC Limits Rec
1,1-Dichloroethene	0.0	10	9	10	94	97	4	20	88-118
Benzene	0.0	10	10	10	97	99	2	20	83-121
Trichloroethene	0.6	10	10	10	91	94	4	20	68-109
Toluene	0.1	10	10	10	97	97	1	20	85-109
Chlorobenzene	0.0	10	10	10	96	99	3	20	82-110

- Fails Limit Check

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\100300\C16862.D Vial: 11
Acq On : 3 Oct 2000 16:09 Operator: TAG/VR
Sample : AC00431MS 25ml DF=1 Inst : VOA-C
Misc : 25726/C10020025 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 3 16:35 2000 Quant Results File: 10030025.RES

Quant Method : c:\hpchem\1\data\100300\10030025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Mon Oct 02 15:08:29 2000
Response via : Initial Calibration
DataAcq Meth : 10030025

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Pentafluorobenzene	5.84	168	544379	10.00	ug\L		0.01
45) Chlorobenzene-d5	12.21	117	459074	10.00	ug\L		0.00
61) 1,4-Dichlorobenzene-d4	16.32	152	224751	10.00	ug\L		0.00
System Monitoring Compounds							
32) 1,2-Dichloroethane-d4	6.32	65	128245	9.33	ug\L		0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 93.30%				
46) Toluene-d8	9.69	98	695146	9.83	ug\L		0.01
Spiked Amount 10.000	Range 87 - 104		Recovery = 98.30%				
65) Bromofluorobenzene	14.30	95	340122	9.89	ug\L		0.00
Spiked Amount 10.000	Range 84 - 110		Recovery = 98.90%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.44	85	232648	8.51	ug\L		100
3) Chloromethane	1.59	50	133759	9.08	ug\L		99
4) Vinyl Chloride	1.64	62	187217	9.25	ug\L		100
5) Bromomethane	1.89	94	166416	9.47	ug\L		99
6) Chloroethane	1.96	64	106703	9.89	ug\L		96
7) Trichlorofluoromethane	2.14	101	435365	9.63	ug\L	#	100
8) Acrolein	3.35	56	9130	30.01	ug\L	#	92
9) Acrylonitrile	3.40	53	16913	18.20	ug\L		97
10) 1,1-Dichloroethene	2.57	96	197585	9.38	ug\L		97
11) Acetone	2.69	58	2820	11.02	ug\L		97
12) Iodomethane	2.78	142	285706	8.04	ug\L		99
13) Allylchloride	2.94	39	165530	9.79	ug\L	#	47
14) Carbon Disulfide	2.79	76	491368	9.69	ug\L		100
15) Acetonitrile	2.94	41	296552	109.94	ug\L		95
16) Methylene Chloride	3.10	86	91746	9.19	ug\L	#	25
17) trans-1,2-Dichloroethene	3.37	96	203906	9.48	ug\L		97
18) MethylTertButylEther	3.37	73	177183	9.63	ug\L		100
19) 1,1-Dichloroethane	3.91	63	361587	9.56	ug\L		99
20) Vinyl Acetate	4.02	43	102297	9.51	ug\L		96
21) 2,2-Dichloropropane	4.76	77	321848	9.54	ug\L		99
22) cis-1,2-Dichloroethene	4.81	96	194376	9.63	ug\L		99
23) 2-Butanone	4.93	72	1939	3.91	ug\L	#	1
24) Propionitrile	5.10	54	27114	91.49	ug\L	#	96
25) Methacrylonitrile	5.31	41	188701	94.71	ug\L		98
26) Bromochloromethane	5.25	128	66666	9.35	ug\L		98
27) Chloroform	5.44	83	383030	9.73	ug\L		100
28) 1,1,1-Trichloroethane	5.67	97	371285	9.54	ug\L	#	74
29) Carbon Tetrachloride	5.95	119	336774	9.58	ug\L	#	75
30) 1,4-Dioxane	8.32	88	6754	199.09	ug\L	#	79

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

Data File : C:\HPCHEM\1\DATA\100300\C16862.D Vial: 11
Acq On : 3 Oct 2000 16:09 Operator: TAG/VR
Sample : AC00431MS 25ml DF=1 Inst : VOA-C
Misc : 25726/C10020025 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 3 16:35 2000 Quant Results File: 10030025.RES

Quant Method : c:\hpchem\1\data\100300\10030025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Mon Oct 02 15:08:29 2000
Response via : Initial Calibration
DataAcq Meth : 10030025

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
31) 1,1-Dichloropropene	5.96	77	109086	9.31 ug\L #	1
33) Benzene	6.34	78	597716	9.69 ug\L	100
34) Isobutyl alcohol	6.59	43	22256	190.55 ug\L	98
35) 1,2-Dichloroethane	6.46	62	136812	9.39 ug\L #	86
36) Trichloroethene	7.54	95	293178	9.65 ug\L	98
37) 1,2-Dichloropropane	7.96	63	204443	9.88 ug\L	100
38) Dibromomethane	8.20	93	83033	9.55 ug\L	95
39) Methylmethacrylate	8.29	69	36755	9.56 ug\L	93
40) Bromodichloromethane	8.53	83	284425	9.42 ug\L	99
41) 2-Nitropropane	8.96	43	8009	10.68 ug\L #	100
42) 2-Chloroethyl-vinyl ether	9.11	63	122	2.13 ug\L #	47
43) cis-1,3-Dichloropropene	9.30	75	216763	9.78 ug\L	95
44) 4-Methyl-2-Pentanone	9.64	85	6052	5.93 ug\L #	1
47) Toluene	9.81	92	413877	9.74 ug\L	100
48) trans-1,3-Dichloropropene	10.31	75	136440	9.19 ug\L	96
49) Ethylmethacrylate	10.52	69	91135	9.70 ug\L #	94
50) 1,1,2-Trichloroethane	10.63	83	86840	9.47 ug\L	94
51) Tetrachloroethene	10.73	164	223315	9.36 ug\L	98
52) 1,3-Dichloropropane	10.89	76	159635	9.48 ug\L	99
53) 2-Hexanone	11.12	43	25647	10.93 ug\L #	93
54) Dibromochloromethane	11.27	129	149738	9.23 ug\L	99
55) 1,2-Dibromoethane	11.41	107	105225	9.41 ug\L	98
56) Chlorobenzene	12.26	112	448121	9.64 ug\L	98
57) 1,1,1,2-Tetrachloroethane	12.44	131	188829	9.82 ug\L	98
58) Ethylbenzene	12.46	91	858972	9.97 ug\L	100
59) total-Xylene	12.68	106	920876m	30.13 ug\L	
60) Styrene	13.42	104	424006	9.78 ug\L	98
62) Bromoform	13.75	173	66519	9.36 ug\L	98
63) Isopropylbenzene	14.03	105	1003111	10.12 ug\L	99
64) 1,4-dichloro-2-Butene	14.29	75	185486	9.36 ug\L #	100
66) Bromobenzene	14.52	156	170641	10.10 ug\L	85
67) 1,1,2,2-Tetrachloroethane	14.69	83	109874	9.60 ug\L	97
68) 1,2,3-Trichloropropane	14.70	75	83944	7.76 ug\L #	100
69) n-Propylbenzene	14.76	91	1174763	10.03 ug\L	99
70) 2-Chlorotoluene	14.87	91	637238	9.98 ug\L	98
71) 4-Chlorotoluene	15.07	91	838795	10.42 ug\L	98
72) 1,3,5-Trimethylbenzene	15.09	105	767421	10.29 ug\L	98
73) Pentachloroethane	15.68	167	121007	9.87 ug\L	98
74) tert-Butylbenzene	15.64	119	942670	10.38 ug\L	99
75) 1,2,4-Trimethylbenzene	15.73	105	751370	10.32 ug\L	98
76) sec-Butylbenzene	16.02	105	1219510	10.35 ug\L	100
77) 1,3-Dichlorobenzene	16.19	146	350333	10.28 ug\L	99

= qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\100300\C16862.D Vial: 11
Acq On : 3 Oct 2000 16:09 Operator: TAG/VR
Sample : AC00431MS 25ml DF=1 Inst : VOA-C
Misc : 25726/C10020025 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 3 16:35 2000 Quant Results File: 10030025.RES

Quant Method : c:\hpchem\1\data\100300\10030025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Mon Oct 02 15:08:29 2000
Response via : Initial Calibration
DataAcq Meth : 10030025

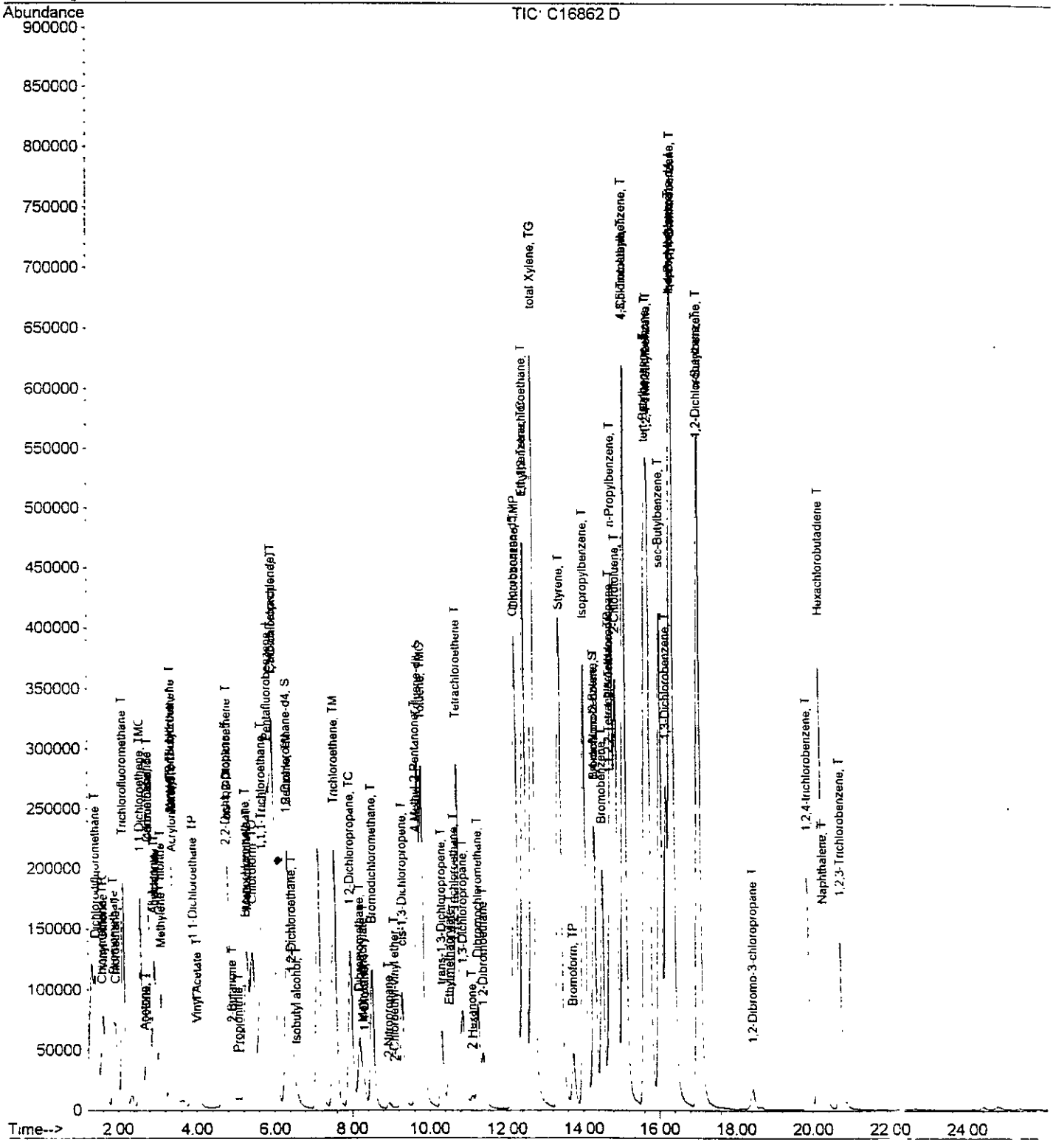
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
78)	Isopropyltoluene	16.31	119	918368	10.26	ug\L	100
79)	1,4-Dichlorobenzene	16.36	146	381512	10.12	ug\L	100
80)	1,2-Dichlorobenzene	17.00	146	277404	10.28	ug\L	99
81)	n-Butylbenzene	17.04	91	1027428	10.48	ug\L	98
82)	1,2-Dibromo-3-chloropropan	18.45	75	17959	9.58	ug\L	94
83)	1,2,4-trichlorobenzene	19.86	180	214392	10.61	ug\L	100
84)	Hexachlorobutadiene	20.19	225	265809	10.86	ug\L	100
85)	Naphthalene	20.28	128	183119	9.79	ug\L	100
86)	1,2,3-Trichlorobenzene	20.72	180	154388	10.57	ug\L	97

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

Quantitation Report

Data File : C:\HPCHEM\1\DATA\100300\C16862.D Vial: 11
Acq On : 3 Oct 2000 16:09 Operator: TAG/VR
Sample : AC00431MS 25ml DF=1 Inst : VOA-C
Misc : 25726/C10020025 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 3 16:35 2000 Quant Results File: 10030025.RES

Method : c:\hpchem\1\data\100300\10030025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Mon Oct 02 15:08:29 2000
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\100300\C16863.D Vial: 12
Acq On : 3 Oct 2000 16:39 Operator: TAG/VR
Sample : AC00431MSD 25ml DF=1 Inst : VOA-C
Misc : 25726/C10020025 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 3 17:06 2000 Quant Results File: 10030025.RES

Quant Method : c:\hpchem\1\data\100300\10030025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Mon Oct 02 15:08:29 2000
Response via : Initial Calibration
DataAcq Meth : 10030025

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Pentafluorobenzene	5.85	168	527878	10.00	ug\L		0.00
45) Chlorobenzene-d5	12.21	117	444874	10.00	ug\L		0.00
61) 1,4-Dichlorobenzene-d4	16.32	152	221335	10.00	ug\L		0.00
System Monitoring Compounds							
32) 1,2-Dichloroethane-d4	6.32	65	130731	9.81	ug\L		0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 98.10%				
46) Toluene-d8	9.70	98	698701	10.20	ug\L		0.02
Spiked Amount 10.000	Range 87 - 104		Recovery = 102.00%				
65) Bromofluorobenzene	14.30	95	341700	10.09	ug\L		0.00
Spiked Amount 10.000	Range 84 - 110		Recovery = 100.90%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.44	85	240147	9.06	ug\L		100
3) Chloromethane	1.60	50	137542	9.63	ug\L		96
4) Vinyl Chloride	1.65	62	187115	9.54	ug\L		99
5) Bromomethane	1.90	94	153106	8.92	ug\L		98
6) Chloroethane	1.98	64	107166	10.24	ug\L		96
7) Trichlorofluoromethane	2.15	101	438122	10.00	ug\L	#	100
8) Acrolein	3.36	56	9502	32.28	ug\L	#	46
9) Acrylonitrile	3.42	53	17462	19.38	ug\L		97
10) 1,1-Dichloroethene	2.58	96	198508	9.72	ug\L		98
11) Acetone	2.68	58	2736	11.03	ug\L	#	65
12) Iodomethane	2.77	142	319513	9.28	ug\L		99
13) Allylchloride	2.95	39	170653	10.41	ug\L	#	45
14) Carbon Disulfide	2.80	76	476116	9.69	ug\L		100
15) Acetonitrile	2.94	41	288626	110.31	ug\L		98
16) Methylene Chloride	3.12	86	92505	9.59	ug\L	#	24
17) trans-1,2-Dichloroethene	3.38	96	201295	9.65	ug\L		96
18) MethylTertButylEther	3.38	73	182477	10.23	ug\L		100
19) 1,1-Dichloroethane	3.91	63	361417	9.86	ug\L		99
21) Vinyl Acetate	4.01	43	104459	9.98	ug\L		97
22) 2,2-Dichloropropane	4.76	77	319225	9.76	ug\L		99
23) cis-1,2-Dichloroethene	4.82	96	192311	9.83	ug\L		98
24) 2-Butanone	4.92	72	1999	4.16	ug\L	#	1
25) Propionitrile	5.12	54	27898	97.01	ug\L	#	87
26) Methacrylonitrile	5.30	41	198067	102.52	ug\L		98
27) Bromochloromethane	5.26	128	67541	9.77	ug\L		100
28) Chloroform	5.45	83	381468	9.99	ug\L		99
29) 1,1,1-Trichloroethane	5.67	97	368494	9.77	ug\L	#	78
30) Carbon Tetrachloride	5.94	119	339976	9.97	ug\L	#	74
31) 1,4-Dioxane	8.31	88	6679	202.76	ug\L	#	65

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

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\100300\C16863.D Vial: 12
Acq On : 3 Oct 2000 16:39 Operator: TAG/VR
Sample : AC00431MSD 25ml DF=1 Inst : VOA-C
Misc : 25726/C10020025 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 3 17:06 2000 Quant Results File: 10030025.RES

Quant Method : c:\hpchem\1\data\100300\10030025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Mon Oct 02 15:08:29 2000
Response via : Initial Calibration
DataAcq Meth : 10030025

Compound	R.T.	QIon	Response	Conc Unit		Qvalue
31) 1,1-Dichloropropene	5.98	77	115531	10.17 ug\L	#	1
33) Benzene	6.35	78	591947	9.90 ug\L		100
34) Isobutyl alcohol	6.58	43	22475	198.43 ug\L	#	73
35) 1,2-Dichloroethane	6.46	62	141444	10.02 ug\L		100
36) Trichloroethene	7.54	95	295071	10.02 ug\L		99
37) 1,2-Dichloropropane	7.96	63	206678	10.30 ug\L	#	93
38) Dibromomethane	8.19	93	85482	10.13 ug\L		93
39) Methylmethacrylate	8.29	69	38241	10.26 ug\L		91
40) Bromodichloromethane	8.52	83	287465	9.81 ug\L		98
41) 2-Nitropropane	8.97	43	8335	11.46 ug\L	#	100
42) 2-Chloroethyl-vinyl ether	9.18	63	66	2.11 ug\L	#	47
43) cis-1,3-Dichloropropene	9.30	75	220737	10.27 ug\L		96
44) 4-Methyl-2-Pentanone	9.61	85	6487	6.56 ug\L	#	1
47) Toluene	9.80	92	403580	9.80 ug\L		99
48) trans-1,3-Dichloropropene	10.31	75	139237	9.65 ug\L		96
49) Ethylmethacrylate	10.52	69	95111	10.45 ug\L	#	100
50) 1,1,2-Trichloroethane	10.62	83	91103	10.25 ug\L		92
51) Tetrachloroethene	10.73	164	223141	9.65 ug\L		97
52) 1,3-Dichloropropane	10.90	76	164781	10.10 ug\L		99
53) 2-Hexanone	11.12	43	28099	12.35 ug\L	#	97
54) Dibromochloromethane	11.28	129	155358	9.85 ug\L		97
55) 1,2-Dibromoethane	11.40	107	109808	10.13 ug\L		98
56 Chlorobenzene	12.26	112	446572	9.91 ug\L		98
57) 1,1,1,2-Tetrachloroethane	12.44	131	191791	10.29 ug\L		98
58 Ethylbenzene	12.47	91	843288	10.10 ug\L		100
59 total-Xylene	12.68	106	892071m	30.12 ug\L		
60) Styrene	13.42	104	432122	10.29 ug\L		100
62) Bromoform	13.75	173	69727	9.89 ug\L		97
63) Isopropylbenzene	14.03	105	985358	10.09 ug\L		99
64) 1,4-dichloro-2-Butene	14.30	75	190105	9.75 ug\L	#	100
66 Bromobenzene	14.52	156	169321	10.17 ug\L		90
67 1,1,2,2-Tetrachloroethane	14.69	83	114375	10.15 ug\L		99
68 1,2,3-Trichloropropane	14.71	75	107137	10.05 ug\L	#	100
69 n-Propylbenzene	14.76	91	1228646	10.65 ug\L		97
70 2-Chlorotoluene	14.86	91	581857	9.25 ug\L		94
71 4-Chlorotoluene	15.08	91	823601	10.39 ug\L		98
72 1,3,5-Trimethylbenzene	15.09	105	741114	10.09 ug\L		89
73 Pentachloroethane	15.68	167	123212	10.19 ug\L		97
74 tert-Butylbenzene	15.64	119	931241	10.41 ug\L		99
75 1,2,4-Trimethylbenzene	15.74	105	742151	10.35 ug\L		97
76 sec-Butylbenzene	16.03	105	1195639	10.30 ug\L		100
77 1,3-Dichlorobenzene	16.19	146	345800	10.31 ug\L		100

= qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\100300\C16863.D Vial: 12
Acq On : 3 Oct 2000 16:39 Operator: TAG/VR
Sample : AC00431MSD 25ml DF=1 Inst : VOA-C
Misc : 25726/C10020025 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 3 17:06 2000 Quant Results File: 10030025.RES

Quant Method : c:\hpchem\1\data\100300\10030025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Mon Oct 02 15:08:29 2000
Response via : Initial Calibration
DataAcq Meth : 10030025

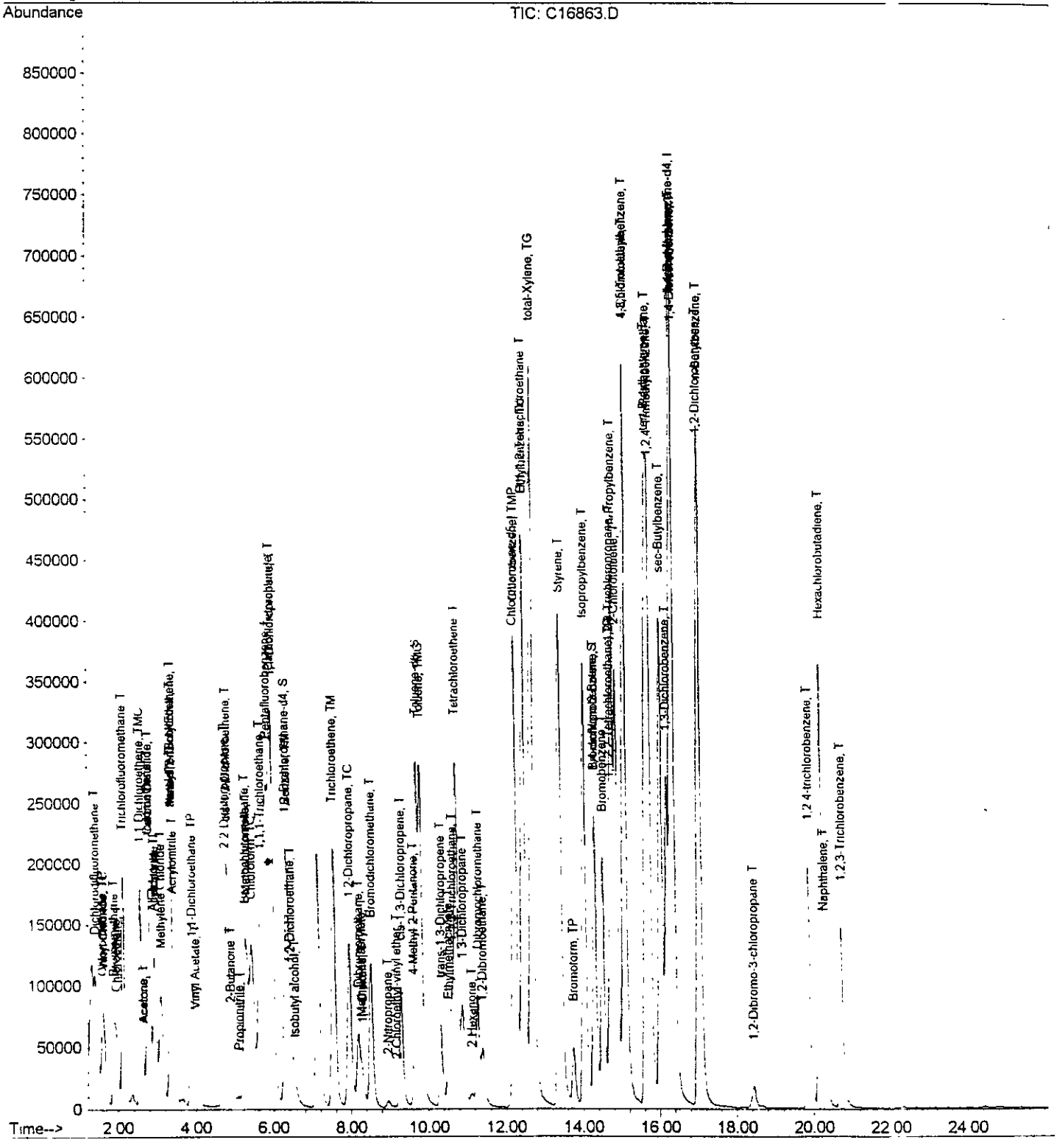
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
78)	Isopropyltoluene	16.31	119	911149	10.33	ug\L	100
79)	1,4-Dichlorobenzene	16.37	146	379184	10.21	ug\L	98
80)	1,2-Dichlorobenzene	17.00	146	278053	10.47	ug\L	98
81)	n-Butylbenzene	17.03	91	1003939	10.40	ug\L	99
82)	1,2-Dibromo-3-chloropropan	18.45	75	18968	10.26	ug\L	92
83)	1,2,4-trichlorobenzene	19.87	180	223127	11.21	ug\L	100
84)	Hexachlorobutadiene	20.19	225	261538	10.85	ug\L	100
85)	Naphthalene	20.29	128	202216	10.90	ug\L	100
86)	1,2,3-Trichlorobenzene	20.73	180	163405	11.36	ug\L	97

= qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\100300\C16863.D Vial: 12
Acq On : 3 Oct 2000 16:39 Operator: TAG/VR
Sample : AC00431MSD 25ml DF=1 Inst : VOA-C
Misc : 25726/C10020025 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 3 17:06 2000 Quant Results File: 10030025.RES

Method : c:\hpchem\1\data\100300\10030025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Mon Oct 02 15:08:29 2000
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\100300\C16861.D Vial: 10
Acq On : 3 Oct 2000 15:38 Operator: TAG/VR
Sample : AC00431 25ml DF=1 Inst : VOA-C
Misc : 25726/C10020025 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 3 16:05 2000 Quant Results File: 10030025.RES

Quant Method : c:\hpchem\1\data\100300\10030025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Mon Oct 02 15:08:29 2000
Response via : Initial Calibration
DataAcq Meth : 10030025

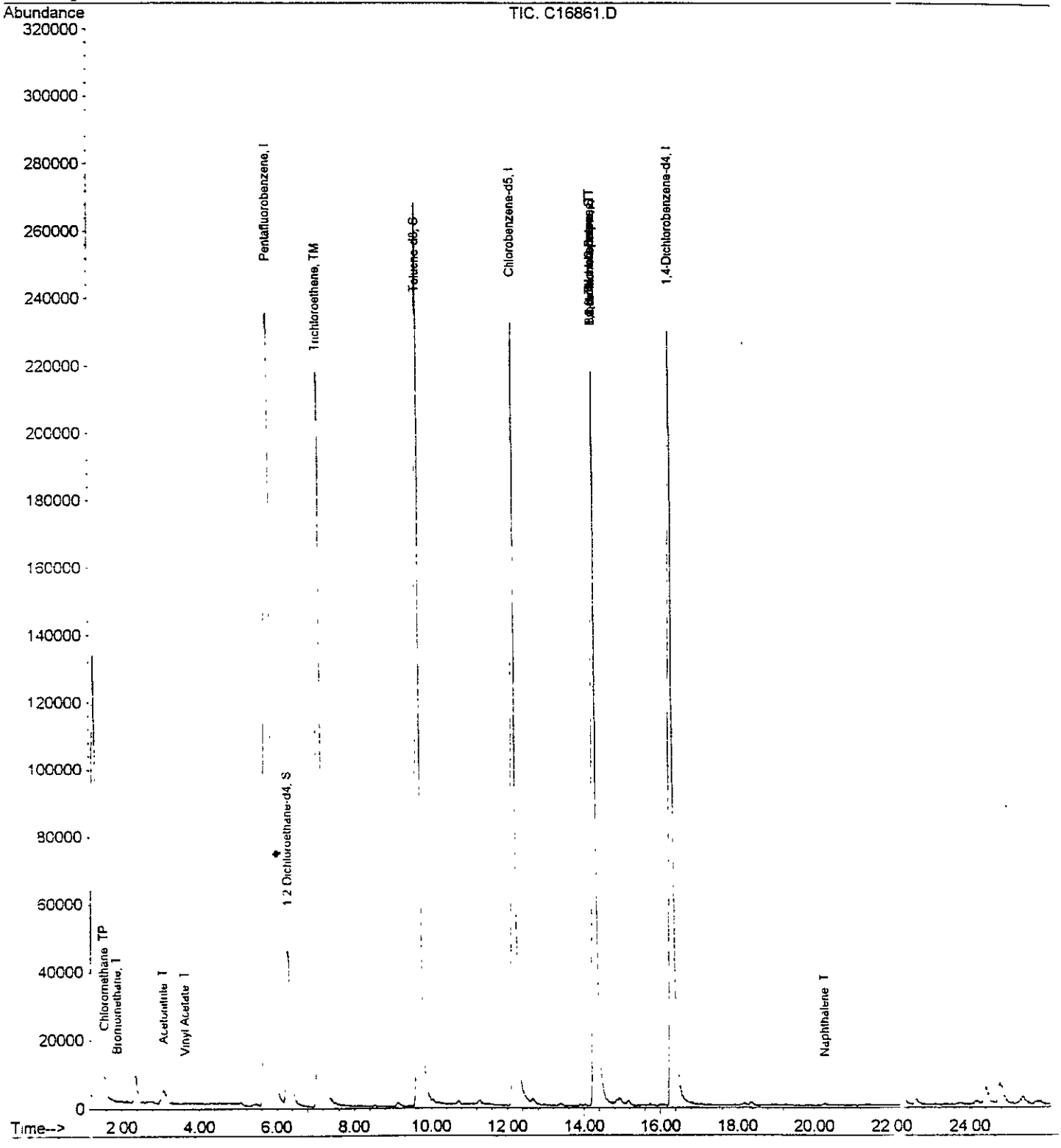
Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Pentafluorobenzene	5.84	168	552652	10.00	ug\L		0.02
45) Chlorobenzene-d5	12.21	117	469967	10.00	ug\L		0.00
61) 1,4-Dichlorobenzene-d4	16.32	152	226263	10.00	ug\L		0.00
System Monitoring Compounds							
32) 1,2-Dichloroethane-d4	6.33	65	125057	8.96	ug\L		0.02
Spiked Amount 10.000	Range 80 - 120		Recovery = 89.60%				
46) Toluene-d8	9.69	98	688625	9.52	ug\L		0.00
Spiked Amount 10.000	Range 87 - 104		Recovery = 95.20%				
65) Bromofluorobenzene	14.30	95	338153	9.76	ug\L		0.00
Spiked Amount 10.000	Range 84 - 110		Recovery = 97.60%				
Target Compounds							Qvalue
3) Chloromethane	1.59	50	7653	0.51	ug\L		99
5) Bromomethane	1.90	94	60	176.17	ug\L	#	3
8) Acrolein	3.15	56	70	-0.69	ug\L	#	19
15) Acetonitrile	3.12	41	7153	13.35	ug\L	#	42
16) Methylene Chloride	3.09	86	759	-0.60	ug\L	#	2
20) Vinyl Acetate	3.64	43	194	0.68	ug\L	#	73
36) Trichloroethene	7.11	95	18187	0.59	ug\L	#	9
64) 1,4-dichloro-2-Butene	14.31	75	175437	8.78	ug\L	#	100
68) 1,2,3-Trichloropropane	14.31	75	168198	15.44	ug\L	#	100
83) Naphthalene	20.30	128	2423	0.73	ug\L		100

= qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\100300\C16861.D Vial: 10
Acq On : 3 Oct 2000 15:38 Operator: TAG/VR
Sample : AC00431 25ml DF=1 Inst : VOA-C
Misc : 25726/C10020025 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 3 16:05 2000 Quant Results File: 10030025.RES

Method : c:\hpchem\1\data\100300\10030025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Mon Oct 02 15:08:29 2000
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\100300\C16854.D
Acq On : 3 Oct 2000 11:51
Sample : WATER BLANK SPIKE 25ml DF=1
Misc : QC
MS Integration Params: rteint.p
Quant Time: Oct 3 12:18 2000

Vial: 3
Operator: TAG/VR
Inst : VOA-C
Multiplr: 1.00

Quant Results File: 10030025.RES

Quant Method : C:\HPCHEM\1\DATA\100300\10030025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Mon Oct 02 15:08:29 2000
Response via : Initial Calibration
DataAcq Meth : 10030025

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.82	168	525990	10.00	ug\L	-0.01
45) Chlorobenzene-d5	12.20	117	443578	10.00	ug\L	-0.01
61) 1,4-Dichlorobenzene-d4	16.32	152	221632	10.00	ug\L	0.00
System Monitoring Compounds						
32) 1,2-Dichloroethane-d4	6.32	65	130323	9.82	ug\L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 98.20%			
46) Toluene-d8	9.69	98	680372	9.96	ug\L	0.00
Spiked Amount 10.000	Range 87 - 104		Recovery = 99.60%			
65) Bromofluorobenzene	14.30	95	348116	10.26	ug\L	0.00
Spiked Amount 10.000	Range 84 - 110		Recovery = 102.60%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.43	85	239148	9.06	ug\L	100
3) Chloromethane	1.59	50	128332	9.02	ug\L	99
4) Vinyl Chloride	1.63	62	191298	9.78	ug\L	100
5) Bromomethane	1.88	94	161422	9.51	ug\L	99
6) Chloroethane	1.97	64	110405	10.59	ug\L	96
7) Trichlorofluoromethane	2.13	101	436351	9.99	ug\L #	100
8 Acrolein	3.36	56	9918	33.85	ug\L #	84
9 Acrylonitrile	3.40	53	16376	18.24	ug\L #	37
10) 1,1-Dichloroethene	2.58	96	202751	9.96	ug\L	99
11) Acetone	2.67	58	2436	9.86	ug\L	94
12) Iodomethane	2.76	142	311988	9.09	ug\L	100
13) Allylchloride	2.93	39	163053	9.98	ug\L #	45
14 Carbon Disulfide	2.78	76	487233	9.95	ug\L	100
15) Acetonitrile	2.94	41	279628	107.56	ug\L	97
16) Methylene Chloride	3.09	86	95256	9.93	ug\L #	25
17) trans-1,2-Dichloroethene	3.36	96	206531	9.93	ug\L	97
18) MethylTertButylEther	3.34	73	176912	9.95	ug\L	98
19) 1,1-Dichloroethane	3.90	63	363166	9.94	ug\L	99
20) Vinyl Acetate	4.01	43	106551	10.20	ug\L	96
21 2,2-Dichloropropane	4.75	77	300903	9.23	ug\L #	55
22 cis-1,2-Dichloroethene	4.82	96	196622	10.08	ug\L	100
23 2-Butanone	4.90	72	3722	7.77	ug\L #	94
24 Propionitrile	5.10	54	15747	55.45	ug\L #	79
25 Methacrylonitrile	5.29	41	195261	101.43	ug\L	98
26 Bromochloromethane	5.25	128	69003	10.02	ug\L	99
27) Chloroform	5.44	83	386423	10.15	ug\L	100
28 1,1,1-Trichloroethane	5.66	97	377224	10.04	ug\L #	73
29 Carbon Tetrachloride	5.93	119	318614	9.38	ug\L #	72
30) 1,4-Dioxane	8.31	88	6550	199.77	ug\L #	81

= qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\100300\C16854.D Vial: 3
Acq On : 3 Oct 2000 11:51 Operator: TAG/VR
Sample : WATER BLANK SPIKE 25ml DF=1 Inst : VOA-C
Misc : QC Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 3 12:18 2000 Quant Results File: 10030025.RES

Quant Method : C:\HPCHEM\1\DATA\100300\10030025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Mon Oct 02 15:08:29 2000
Response via : Initial Calibration
DataAcq Meth : 10030025

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
31)	1,1-Dichloropropene	5.96	77	108665	9.60	ug\L	#	1
33)	Benzene	6.34	78	597455	10.03	ug\L		100
34)	Isobutyl alcohol	6.58	43	23155	205.16	ug\L		94
35)	1,2-Dichloroethane	6.47	62	140680	10.00	ug\L		98
36)	Trichloroethene	7.53	95	290407	9.89	ug\L		97
37)	1,2-Dichloropropane	7.96	63	202109	10.11	ug\L	#	95
38)	Dibromomethane	8.18	93	84956	10.11	ug\L		94
39)	Methylmethacrylate	8.29	69	36672	9.87	ug\L	#	32
40)	Bromodichloromethane	8.51	83	285436	9.78	ug\L		99
41)	2-Nitropropane	8.95	43	7192	9.93	ug\L	#	100
42)	2-Chloroethyl-vinyl ether	9.12	63	16944	7.89	ug\L		98
43)	cis-1,3-Dichloropropene	9.30	75	219978	10.27	ug\L		95
44)	4-Methyl-2-Pentanone	9.64	85	6464	6.56	ug\L	#	42
47)	Toluene	9.80	92	407429	9.93	ug\L		100
48)	trans-1,3-Dichloropropene	10.31	75	135848	9.46	ug\L		97
49)	Ethylmethacrylate	10.53	69	95768	10.55	ug\L	#	95
50)	1,1,2-Trichloroethane	10.62	83	90460	10.21	ug\L		94
51)	Tetrachloroethene	10.72	164	223452	9.69	ug\L		98
52)	1,3-Dichloropropane	10.87	76	167307	10.29	ug\L		99
53)	2-Hexanone	11.11	43	24345	10.73	ug\L		93
54	Dibromochloromethane	11.28	129	156884	9.97	ug\L		100
55)	1,2-Dibromoethane	11.40	107	110403	10.22	ug\L		99
56	Chlorobenzene	12.25	112	459856	10.23	ug\L		99
57)	1,1,1,2-Tetrachloroethane	12.43	131	189087	10.18	ug\L		98
58)	Ethylbenzene	12.47	91	843514	10.13	ug\L		100
59)	total-Xylene	12.68	106	904101m	30.61	ug\L		
60)	Styrene	13.41	104	430600	10.28	ug\L		99
62)	Bromoform	13.74	173	69902	9.90	ug\L	#	97
63)	Isopropylbenzene	14.02	105	977755	10.00	ug\L		99
64	1,4-dichloro-2-Butene	14.29	75	190130	9.74	ug\L	#	100
66	Bromobenzene	14.50	156	172918	10.36	ug\L		94
67	1,1,2,2-Tetrachloroethane	14.68	83	114134	10.11	ug\L		99
68	1,2,3-Trichloropropane	14.70	75	89089	8.35	ug\L	#	100
69	n-Propylbenzene	14.75	91	1115814	9.66	ug\L		99
70)	2-Chlorotoluene	14.86	91	603514	9.58	ug\L		96
71)	4-Chlorotoluene	15.08	91	821462	10.35	ug\L		98
72)	1,3,5-Trimethylbenzene	15.08	105	751612	10.22	ug\L		89
73	Pentachloroethane	15.68	167	121265	10.03	ug\L		98
74	tert-Butylbenzene	15.64	119	920129	10.27	ug\L		99
75	1,2,4-Trimethylbenzene	15.73	105	728970	10.15	ug\L		99
76	sec-Butylbenzene	16.02	105	1193129	10.27	ug\L		100
77	1,3-Dichlorobenzene	16.19	146	343936	10.24	ug\L		99

= qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\100300\C16854.D
Acq On : 3 Oct 2000 11:51
Sample : WATER BLANK SPIKE 25ml DF=1
Misc : QC
MS Integration Params: rteint.p
Quant Time: Oct 3 12:18 2000

Vial: 3
Operator: TAG/VR
Inst : VOA-C
Multiplr: 1.00

Quant Results File: 10030025.RES

Quant Method : C:\HPCHEM\1\DATA\100300\10030025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Mon Oct 02 15:08:29 2000
Response via : Initial Calibration
DataAcq Meth : 10030025

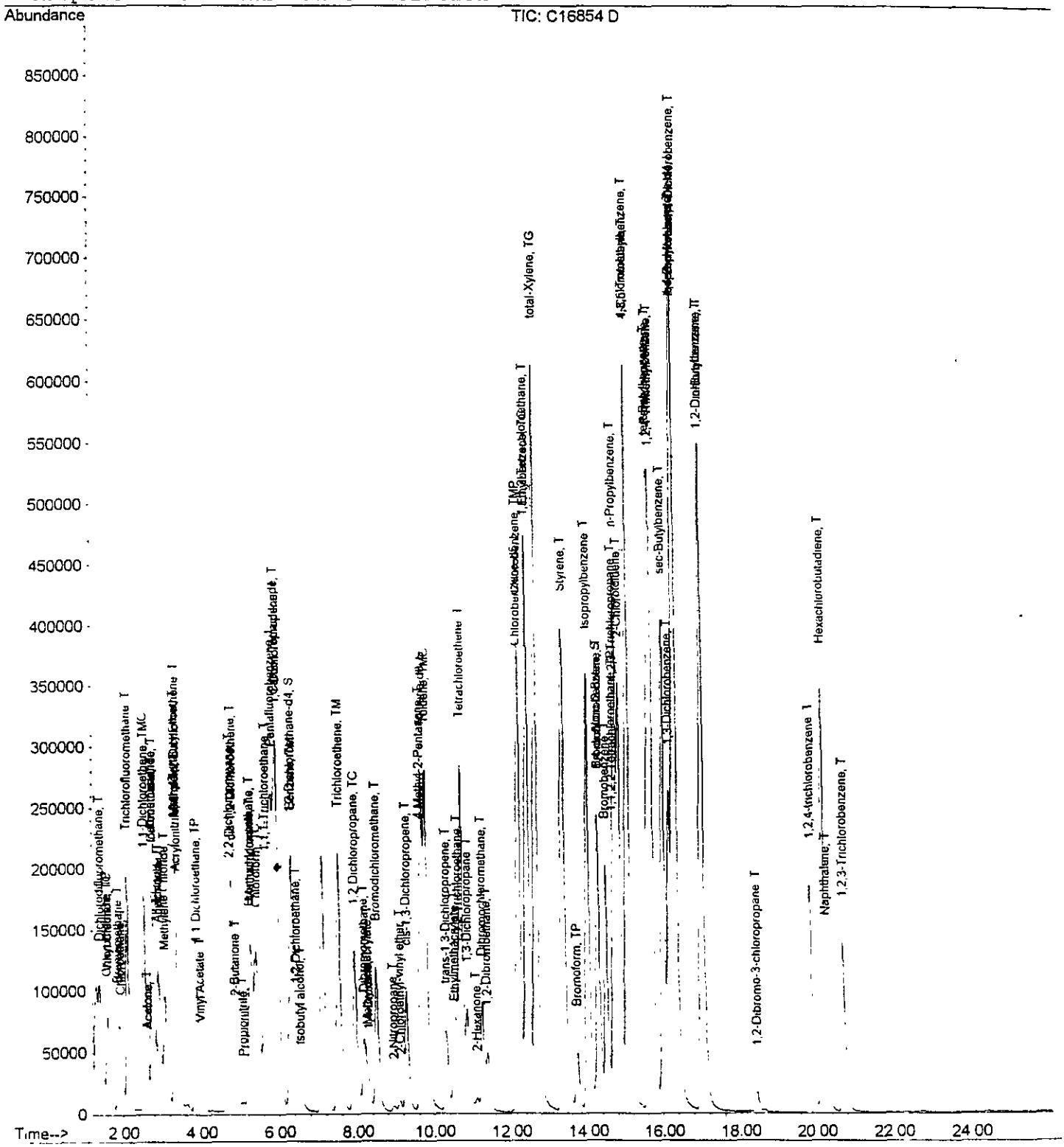
	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
78)	Isopropyltoluene	16.31	119	888949	10.07 ug\L	99
79)	1,4-Dichlorobenzene	16.35	146	376957	10.14 ug\L	99
80)	1,2-Dichlorobenzene	17.00	146	275847	10.37 ug\L	99
81)	n-Butylbenzene	17.03	91	988122	10.22 ug\L	98
82)	1,2-Dibromo-3-chloropropan	18.45	75	18216	9.85 ug\L	91
83)	1,2,4-trichlorobenzene	19.86	180	208926	10.49 ug\L	100
84)	Hexachlorobutadiene	20.17	225	252327	10.46 ug\L	100
85)	Naphthalene	20.28	128	183926	9.96 ug\L	100
86)	1,2,3-Trichlorobenzene	20.72	180	151714	10.53 ug\L	98

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

Quantitation Report

Data File : C:\HPCHEM\1\DATA\100300\C16854.D Vial: 3
Acq On : 3 Oct 2000 11:51 Operator: TAG/VR
Sample : WATER BLANK SPIKE 25ml DF=1 Inst : VOA-C
Misc : QC Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Oct 3 12:18 2000 Quant Results File: 10030025.RES

Method : C:\HPCHEM\1\DATA\100300\10030025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Mon Oct 02 15:08:29 2000
Response via : Initial Calibration



SVO GC DATA CHECKLIST
FL-PRO

PROJECT #: 25726	METHOD: FL-PRO
MATRIX: Water	

INITIAL ANALYST ASSESSMENT

Are all standards within expiration dates for both stock and serial standards?	(Y)	N	NA
Are continuing calibrations compliant with method requirements?	(Y)	N	NA
Is blank result less than 1/2 RDL for analytes of interest?	(Y)	N	NA
Are all spike recoveries acceptable for the LCS (/LCSD)?	(Y)	N	NA
Are all surrogate standard recoveries acceptable (blank, LCS, samples)?	Y	(N)	NA
If blank, LCS or surrogate results are unacceptable, was re-extraction performed to confirm?	Y	(N)	NA
Are all requested analytes below the upper calibration limit?	(Y)	N	NA
Were sample analyses performed within holding times?	(Y)	N	NA
Were analyses performed such that carryover was not a problem?	(Y)	N	NA
Are multicomponent patterns resolvable?	(Y)	N	NA
Are quantitations based on the latest acceptable initial calibration?	(Y)	N	NA
Are all mistakes single lined, initialled, and dated?	(Y)	N	NA
Are all applicable runlog and extraction sheets signed, dated, and included?	(Y)	N	NA
Are all analytes to be reported indicated as such on the raw data?	(Y)	N	NA
Was analysis completed as instructed on the Log-in Record?	(Y)	N	NA
Has all data been entered into LIMS?	(Y)	N	NA

Analyst: MT	
Date: 10-9-00	Time: 13:30

PEER REVIEW

Are continuing calibrations compliant with method requirements?	(Y)	N	NA
Are all blank and QC results acceptable?	Y	(N)	NA
Are all surrogate standard recoveries acceptable (blank, LCS, samples)?	Y	(N)	NA
Are all analyte calculations correct and reported in the proper units?	(Y)	N	NA
Were sample analyses performed within holding times?	(Y)	N	NA
Are quantitations based on the latest acceptable initial calibration?	(Y)	N	NA
Is the runlog completely filled out (including review signature/date)?	(Y)	N	NA
Was analysis completed as instructed on the Log-in Record?	(Y)	N	NA
Have all LIMS entries been checked for accuracy?	(Y)	N	NA

Reviewer: [signature]	
Date: 10/16/00	Time: 0932

ACCURA ANALYTICAL LABORATORIES

EXTRACTION LOG

ANALYSIS: DRO / PAH / (FL-PRO)

DATE/TIME: 10/5/00 9:00AM

MATRIX: WATER

ANALYST: RJ

EXT. METHOD: 3510 / (3520)

INSTRUMENT: GC-FID / GC-MSD

AAL I.D.	SAMPLE VOLUME	pH	SURR 1.0ml	SPIKE 1.0ml	FINAL VOLUME	COMMENTS
Blank	1L	<2	RJ		1.0ml	
LCS		<2		RJ		
LCS DUP		<2		↓		
00424		<2				
00425		<2				
00426		<2				
00427		<2				
00428		<2				
00429		<2				
00430		<2				
00431	↓	<2	↓		↓	

10/16/00 RJ 1:30p.m.

START TIME: 12:45p.m. **STOP TIME:** 8:00Am **SOLVENT ID #:** EX00084

SURROGATE I.D. : DOOE114 **CONC. :** 50ppm **INITAL :** RJ

SURROGATE SPIKE I.D. : FLOOE102 **CONC. :** 300ppm **INITIAL :** RJ

RJ 10/5/00

SPIKE I.D. : FLOOE084 **CONC. :** 250ppm **INITIAL :** RJ

EXTRACT STORAGE: REFRIG.# 5, **BOX # :** D-166,167 **RapidVap TEMP.:** 45°C

ACCURA ANALYTICAL LABORATORY, INC.

Environmental Analytical Services

Date Analyzed: 10-6-00
Analyst Initials: MT
Run Method: PRO0901
Quant method: ↓

	Surrogate Recovery Limits (OTP %)	C(39)
Soils	MT 10-9-00 50-150	62-109 60-118
Water	50-150	82-142 42-193

INITIAL CALIBRATION
Compound: FL PRO
Date: 9-01-06

Sequence Directory:

Vial Position	AAL #	Extraction Date	Matrix	Dilution Factor	OTP/C(39) Recovery	PRO Spike Recovery	Comments/Observations
1	Solv Blank	NA	$MeCl_2$	1X	NA	NA	
2	4250 PHS PRO ccv	↓	Std.		103 / 98	98	005V204
3	PROW Blank 100S	10-5-00	W		85 / 14	NA	<2 EDL
4	PROW LCS 100S				73 / 8.1	64	
5	PROW LCSD 100S				64 / 5.0	59	
6	00424				32 / 20	NA	
7	00425				57 / 13		
8	00426				33 / 28		
9	00427				31 / 17		
10	00428				27 / 28		
11	00429				52 / 21		
12	00430	↓	↓		31 / 12		
13	Solv Blank	NA	$MeCl_2$		NA	↓	
14	4250 PHS PRO ccv	↓	Std.		114 / 108	102	005V204
15	00431	10-5-00	W		77 / 18	NA	
13	Solv Blank	NA	$MeCl_2$		NA	↓	
14	4250 PHS PRO ccv	↓	Std.	↓	109 / 102	98	005V204
					MT 10-9-00		

DRO-REV2 XLS

Initials\Date: MT 10-9-00

Approved By\Date:

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\100600\10060017.D Vial: 14
Acq On : 7 Oct 2000 5:43 am Operator:
Sample : 4250 PHS PRO CCV Inst : DRO-B
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Oct 9 9:26 2000 Quant Results File: PRO0901.RES

Quant Method : C:\HPCHEM\2\METHODS\PRO0901.M (Chemstation Integrator)
Title : FLORIDA PRO BY GC; INST. #2
Last Update : Fri Sep 01 18:09:33 2000
Response via : Initial Calibration
DataAcq Meth : PRO0901.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) SC o-TERPHENYL	19.20	2400796	54.398 ug/mlm
Spiked Amount 50.000	Recovery =		108.80% ✓MT
3) SC C(39)	34.84	14307818	306.979 ug/mlm
Spiked Amount 300.000	Recovery =		102.33% ✓MT
Target Compounds			
1) HM Florida PRO	3.70	169394047	4157.566 ug/ml

98% ✓
MT

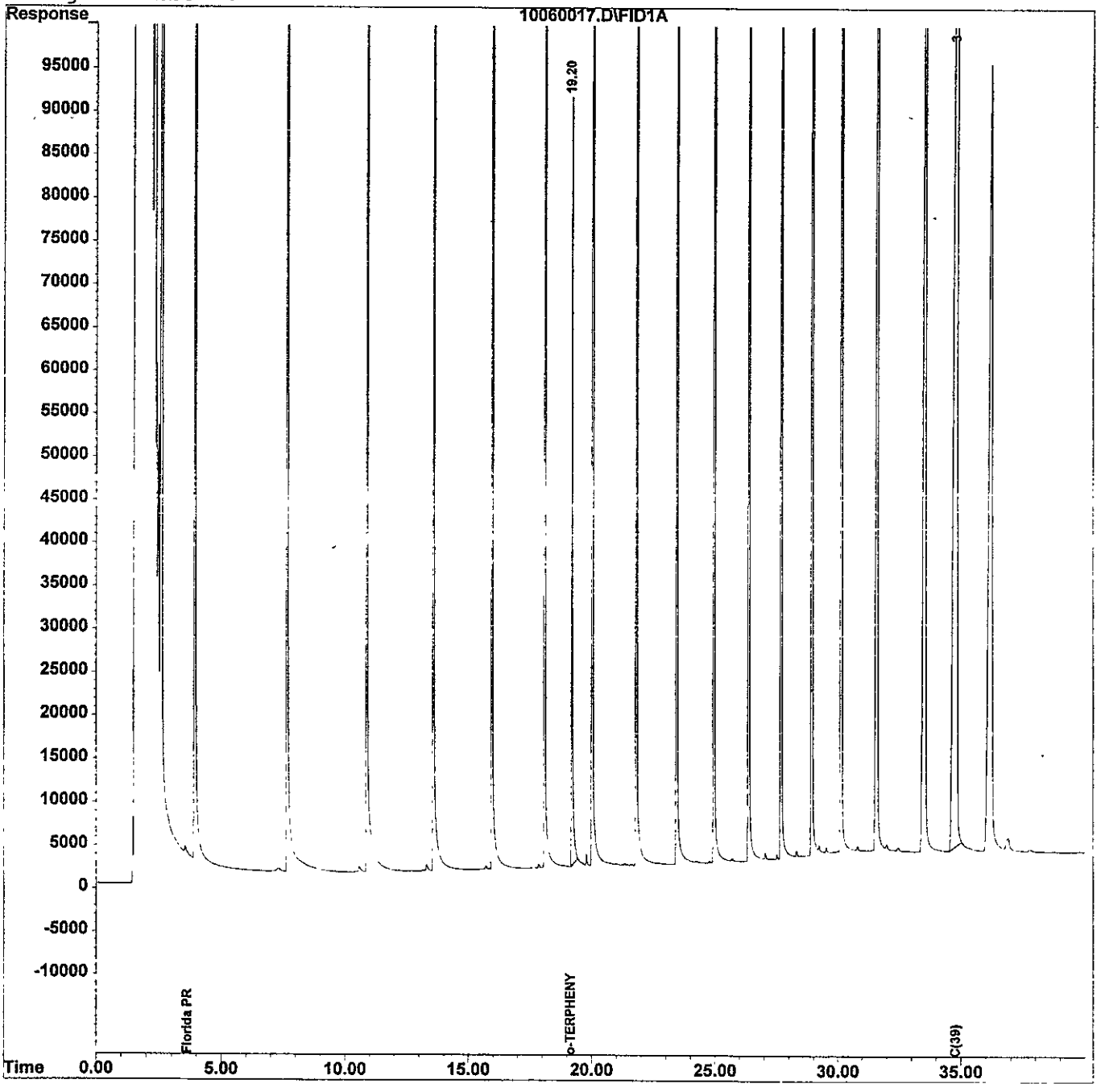
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\2\DATA\100600\10060017.D Vial: 14
Acq On : 7 Oct 2000 5:43 am Operator:
Sample : 4250 PHS PRO CCV Inst : DRO-B
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Oct 9 9:26 2000 Quant Results File: PRO0901.RES

Quant Method : C:\HPCHEM\2\METHODS\PRO0901.M (Chemstation Integrator)
Title : FLORIDA PRO BY GC; INST. #2
Last Update : Fri Sep 01 18:09:33 2000
Response via : Multiple Level Calibration
DataAcq Meth : PRO0901.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\100600\10060014.D Vial: 14
Acq On : 7 Oct 2000 3:18 am Operator:
Sample : 4250 PHS PRO CCV Inst : DRO-B
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Oct 9 9:25 2000 Quant Results File: PRO0901.RES

Quant Method : C:\HPCHEM\2\METHODS\PRO0901.M (Chemstation Integrator)
Title : FLORIDA PRO BY GC; INST. #2
Last Update : Fri Sep 01 18:09:33 2000
Response via : Initial Calibration
DataAcq Meth : PRO0901.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) SC o-TERPHENYL	19.20	2514208	56.968 ug/mlm
Spiked Amount 50.000	Recovery = 113.94% ✓MT		
3) SC C(39)	34.82	15092114	323.806 ug/mlm
Spiked Amount 300.000	Recovery = 107.94% ✓MT		
Target Compounds			
1) HM Florida PRO	3.70	176248289	4325.795 ug/ml

102% ✓
MT

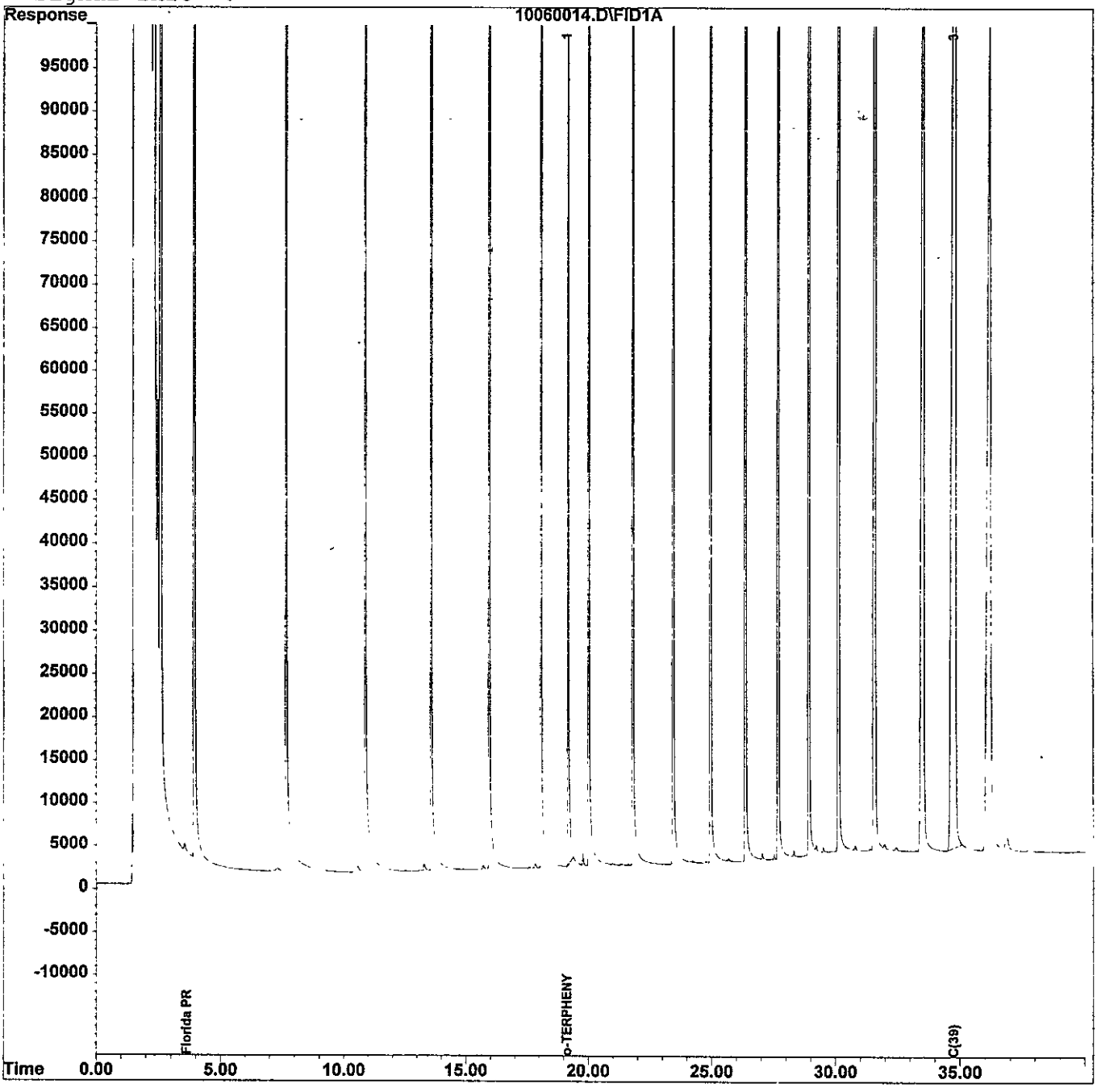
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\2\DATA\100600\10060014.D Vial: 14
Acq On : 7 Oct 2000 3:18 am Operator:
Sample : 4250 PHS PRO CCV Inst : DRO-B
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Oct 9 9:25 2000 Quant Results File: PRO0901.RES

Quant Method : C:\HPCHEM\2\METHODS\PRO0901.M (Chemstation Integrator)
Title : FLORIDA PRO BY GC; INST. #2
Last Update : Fri Sep 01 18:09:33 2000
Response via : Multiple Level Calibration
DataAcq Meth : PRO0901.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\100600\10060002.D Vial: 2
Acq On : 6 Oct 2000 5:37 pm Operator:
Sample : 4250 PHS PRO CCV Inst : DRO-B
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Oct 6 18:39 2000 Quant Results File: PRO0901.RES

Quant Method : C:\HPCHEM\2\METHODS\PRO0901.M (Chemstation Integrator)
Title : FLORIDA PRO BY GC; INST. #2
Last Update : Fri Sep 01 18:09:33 2000
Response via : Initial Calibration
DataAcq Meth : PRO0901.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) SC o-TERPHENYL	19.18	2262104	51.256 ug/mlm
Spiked Amount 50.000	Recovery =		102.51% ✓MT
3) SC C(39)	34.77	13643718	292.730 ug/mlm
Spiked Amount 300.000	Recovery =		97.58% ✓MT
Target Compounds			
1) HM Florida PRO	3.70	168921046	4145.957 ug/ml

98% ✓
MT

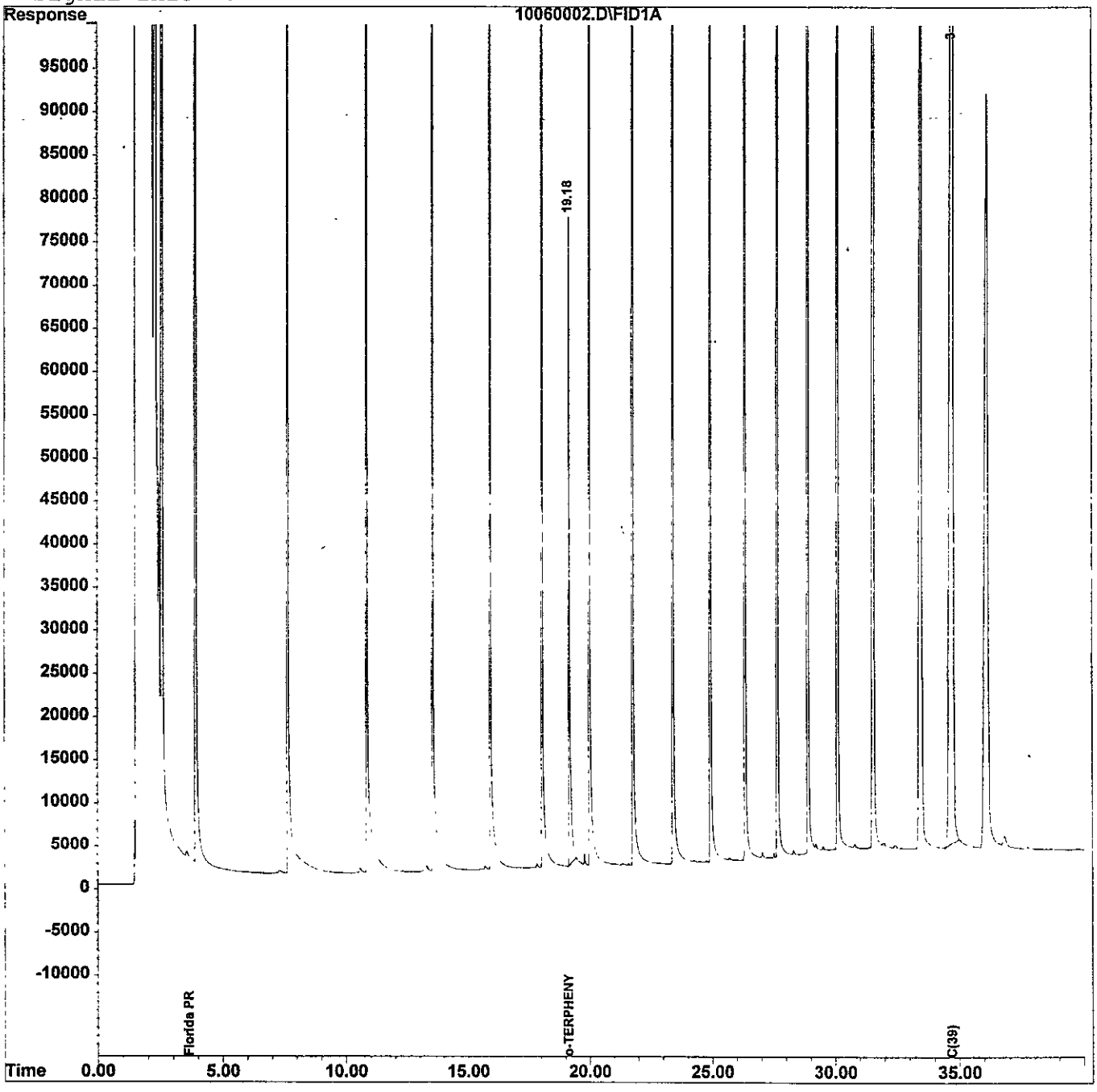
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\2\DATA\100600\10060002.D Vial: 2
Acq On : 6 Oct 2000 5:37 pm Operator:
Sample : 4250 PHS PRO CCV Inst : DRO-B
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Oct 6 18:39 2000 Quant Results File: PRO0901.RES

Quant Method : C:\HPCHEM\2\METHODS\PRO0901.M (Chemstation Integrator)
Title : FLORIDA PRO BY GC; INST. #2
Last Update : Fri Sep 01 18:09:33 2000
Response via : Multiple Level Calibration
DataAcq Meth : PRO0901.M

Volume Inj. :
Signal Phase :
Signal Info :



Accura Analytical Laboratory, Inc.

LCS/LCSD Report

Sample ID:	PROW LCS/LCSD 1005	**Date Acquired:**	10/6/00
Operator:	MT	**Instrument ID:**	DRO-A
Data File:	10060004+05	**Bottle #:**	4+5
Method:	FL-PRO	**Matrix:**	Water

Compound	Expected Rec. (ppm)	LCS Rec. (ppm)	LCS % Recovery	LCSD Rec. (ppm)	LCSD % Recovery	Recovery Limits (%)	MS Pass/ Fail	MSD Pass/ Fail	%RPD	%RPD Limit	%RPD Pass/ Fail
DRO	4.25	2.737	64%	2.493	59%	55 - 118	Pass	Pass	9%	< 25	Pass

Surrogates	Expected Rec. (ppm)	LCS Rec. (ppm)	LCS % Recovery	LCSD Rec. (ppm)	LCSD % Recovery	Recovery Limits (%)*	LCS Pass/ Fail	LCSD Pass/ Fail
O-TERPHENYL	50	36.668	73%	32.132	64%	82 - 142	Fail	Fail
C (39)	300	24.269	8%	15.072	5%	42 - 193	Fail	Fail

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\100600\10060004.D Vial: 4
Acq On : 6 Oct 2000 7:14 pm Operator:
Sample : PROW LCS 1005 Inst : DRO-B
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Oct 9 9:20 2000 Quant Results File: PRO0901.RES

Quant Method : C:\HPCHEM\2\METHODS\PRO0901.M (Chemstation Integrator)
Title : FLORIDA PRO BY GC; INST. #2
Last Update : Fri Sep 01 18:09:33 2000
Response via : Initial Calibration
DataAcq Meth : PRO0901.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) SC o-TERPHENYL	19.19	1618277	36.668 ug/mlm
Spiked Amount 50.000	Recovery =		73.34%
3) SC C(39)	34.66	1131152	24.269 ug/mlm
Spiked Amount 300.000	Recovery =		8.09%
Target Compounds			
1) HM Florida PRO	3.70	111532214	2737.420 ug/ml /1000 =

2.737 / 4.25 x 100% =

64% ✓

NT

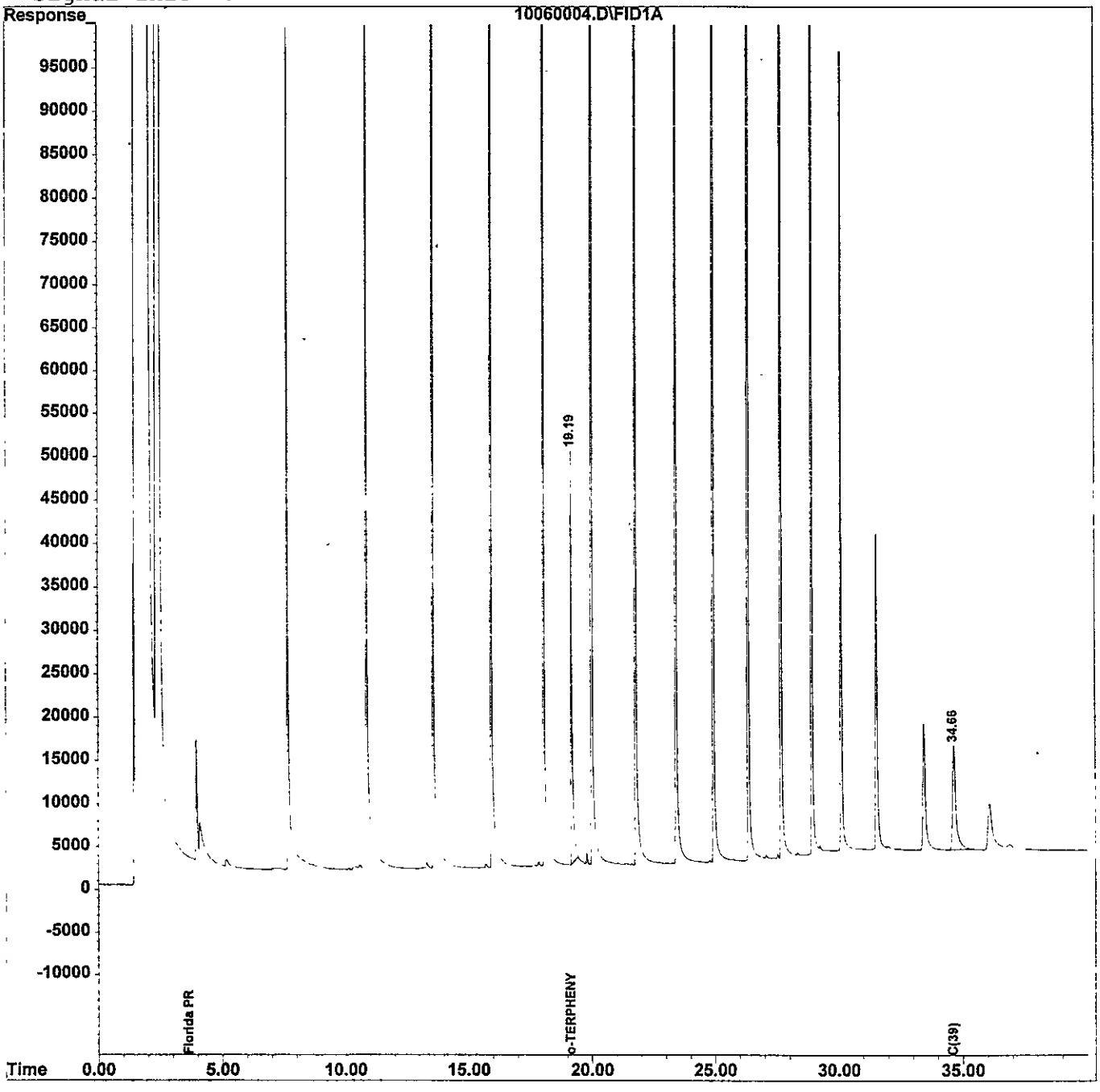
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\2\DATA\100600\10060004.D Vial: 4
Acq On : 6 Oct 2000 7:14 pm Operator:
Sample : PROW LCS 1005 Inst : DRO-B
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Oct 9 9:20 2000 Quant Results File: PRO0901.RES

Quant Method : C:\HPCHEM\2\METHODS\PRO0901.M (Chemstation Integrator)
Title : FLORIDA PRO BY GC; INST. #2
Last Update : Fri Sep 01 18:09:33 2000
Response via : Multiple Level Calibration
DataAcq Meth : PRO0901.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\100600\10060005.D Vial: 5
Acq On : 6 Oct 2000 8:03 pm Operator:
Sample : PROW LCSD 1005 Inst : DRO-B
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Oct 9 9:21 2000 Quant Results File: PRO0901.RES

Quant Method : C:\HPCHEM\2\METHODS\PRO0901.M (Chemstation Integrator)
Title : FLORIDA PRO BY GC; INST. #2
Last Update : Fri Sep 01 18:09:33 2000
Response via : Initial Calibration
DataAcq Meth : PRO0901.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) SC o-TERPHENYL	19.20	1418105	32.132 ug/mlm
Spiked Amount 50.000	Recovery =		64.26%
3) SC C(39)	34.68	702506	15.072 ug/mlm
Spiked Amount 300.000	Recovery =		5.02%
Target Compounds			
1) HM Florida PRO	3.70	101585077	2493.279 ug/ml

2.493 / 4.25 x 100% =

59%

MT

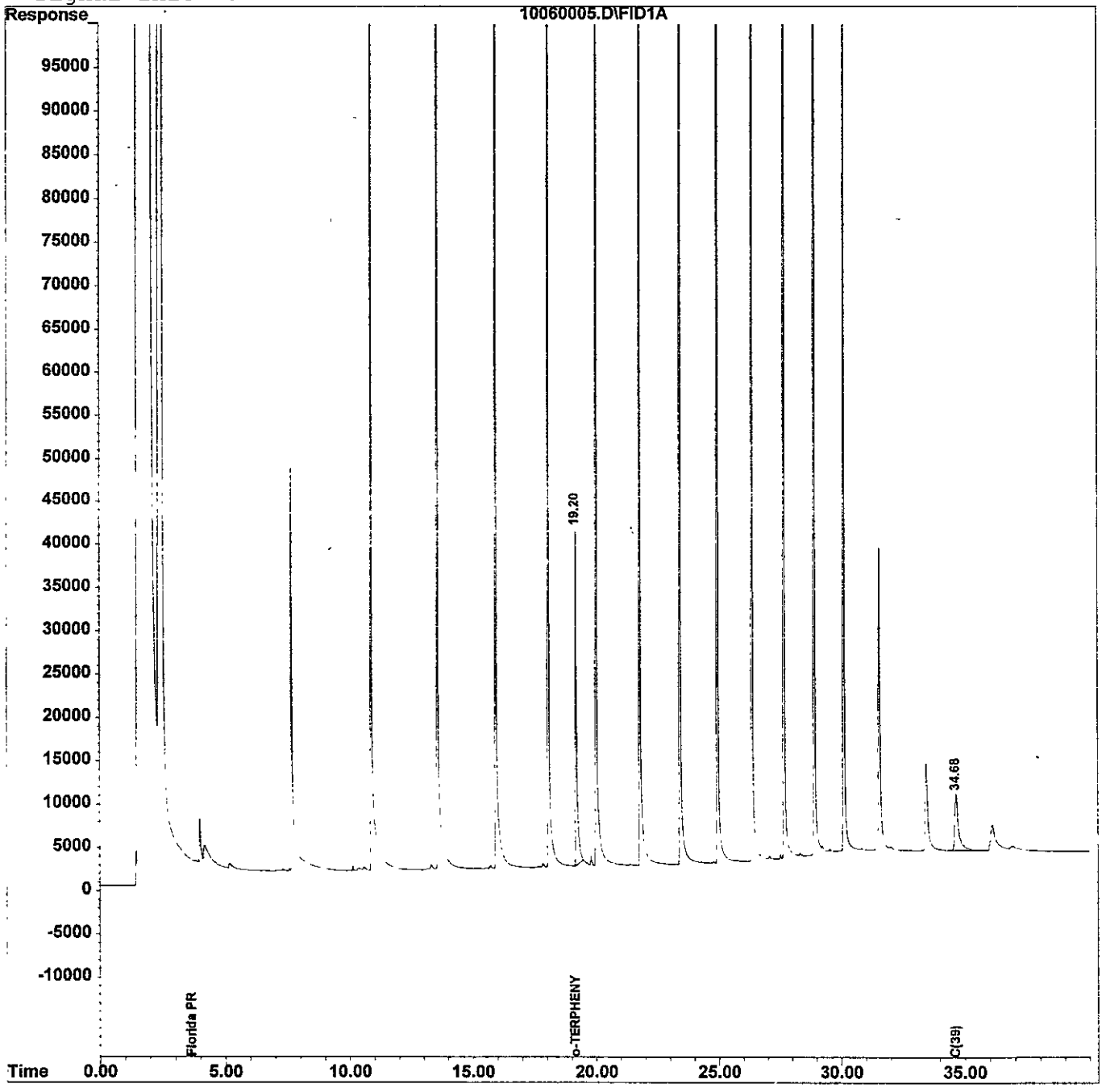
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\2\DATA\100600\10060005.D Vial: 5
Acq On : 6 Oct 2000 8:03 pm Operator:
Sample : PROW LCSD 1005 Inst : DRO-B
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Oct 9 9:21 2000 Quant Results File: PRO0901.RES

Quant Method : C:\HPCHEM\2\METHODS\PRO0901.M (Chemstation Integrator)
Title : FLORIDA PRO BY GC; INST. #2
Last Update : Fri Sep 01 18:09:33 2000
Response via : Multiple Level Calibration
DataAcq Meth : PRO0901.M

Volume Inj. :
Signal Phase :
Signal Info :



ACCURA ANALYTICAL LABORATORIES

EXTRACTION LOG

ANALYSIS: DRO / PAH / (FL-PRO)

DATE/TIME: 10/5/00 9:00AM

MATRIX: WATER

ANALYST: RJ

EXT. METHOD: 3510 / (3520)

INSTRUMENT: GC-FID / GC-MSD

AAL I.D.	SAMPLE VOLUME	pH	SURR 1.0ml	SPIKE 1.0ml	FINAL VOLUME	COMMENTS
Blank	1L	<2	RJ		1.0ml	
LCS	↓	<2	↓	RJ	↓	
LCS DUP		<2		↓		
00424		<2				
00425		<2				
00426		<2				
00427		<2				
00428		<2				
00429		<2				
00430		<2				
00431	↓	<2	↓		↓	

10/16/00 RJ 1:30p.m.

START TIME: 12:45p.m. STOP TIME: 8:00Am SOLVENT ID #: EX00084

SURROGATE I.D. : DOOE114 CONC. : 50ppm INITAL : RJ

SURROGATE SPIKE I.D. : FL00E102 CONC. : 300ppm INITIAL : RJ

RJ 10/5/00

SPIKE I.D. : FL00EC84 CONC. : 250ppm INITIAL : RJ

EXTRACT STORAGE: REFRIG.# 5, BOX # D-1166,1167 RapidVap TEMP.: 45°C

ACCURA ANALYTICAL LABORATORY, INC.

Environmental Analytical Services

Date Analyzed: 10-6-00
Analyst Initials: MT
Run Method: PRO0710.1
Quant method: ↓

	Surrogate Recovery Limits (OTP %)	(39)
Soils	MT 10-9-00 50-150 62-109	60-118
Water	50-150 82-142	42-193

INITIAL CALIBRATION
Compound: FL PRO
Date: 9-01 06

Sequence Directory:

Vial Position	AAL #	Extraction Date	Matrix	Dilution Factor	OTP (39) Recovery	DRO Spike Recovery	Comments/Observations
1	Solv Blank	NA	$MeCl_2$	1X	NA	NA	
2	4250 PHS PRO ccv	↓	Std.		103 / 98	98	005V204
3	PROW Blank 100%	10-5-00	W		85 / 14	NA	<1.RDL
4	PROW LCS 100%				73 / 8.1	64	
5	PROW LCSD 100%				64 / 5.0	59	
6	00424				32 / 20	NA	
7	00425				57 / 13		
8	00426				33 / 28		
9	00427				31 / 17		
10	00428				27 / 28		
11	00429				52 / 21		
12	00430	↓	↓		31 / 12		
13	Solv Blank	NA	$MeCl_2$		NA	↓	
14	4250 PHS PRO ccv	↓	Std.		114 / 108	102	005V204
15	00431	10-5-00	W		77 / 18	NA	
13	Solv Blank	NA	$MeCl_2$		NA	↓	
14	4250 PHS PRO ccv	↓	Std.	↓	109 / 102	98	005V204
					MT 10-9-00		

DRO-REV2.XLS

Initials\Date: MT 10-9-00

Approved By\Date:

Quantitation Report (Qt Reviewed)

Data File : C:\HPCHEM\2\DATA\100600\10060017.D Vial: 14
Acq On : 7 Oct 2000 5:43 am Operator:
Sample : 4250 PHS PRO CCV Inst : DRO-B
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Oct 9 9:26 2000 Quant Results File: PRO0901.RES

Quant Method : C:\HPCHEM\2\METHODS\PRO0901.M (Chemstation Integrator)
Title : FLORIDA PRO BY GC; INST. #2
Last Update : Fri Sep 01 18:09:33 2000
Response via : Initial Calibration
DataAcq Meth : PRO0901.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) SC o-TERPHENYL	19.20	2400796	54.398 ug/mlm
Spiked Amount 50.000	Recovery =		108.80% ✓MT
3) SC C(39)	34.84	14307818	306.979 ug/mlm
Spiked Amount 300.000	Recovery =		102.33% ✓MT
Target Compounds			
1) HM Florida PRO	3.70	169394047	4157.566 ug/ml

98% ✓
MT

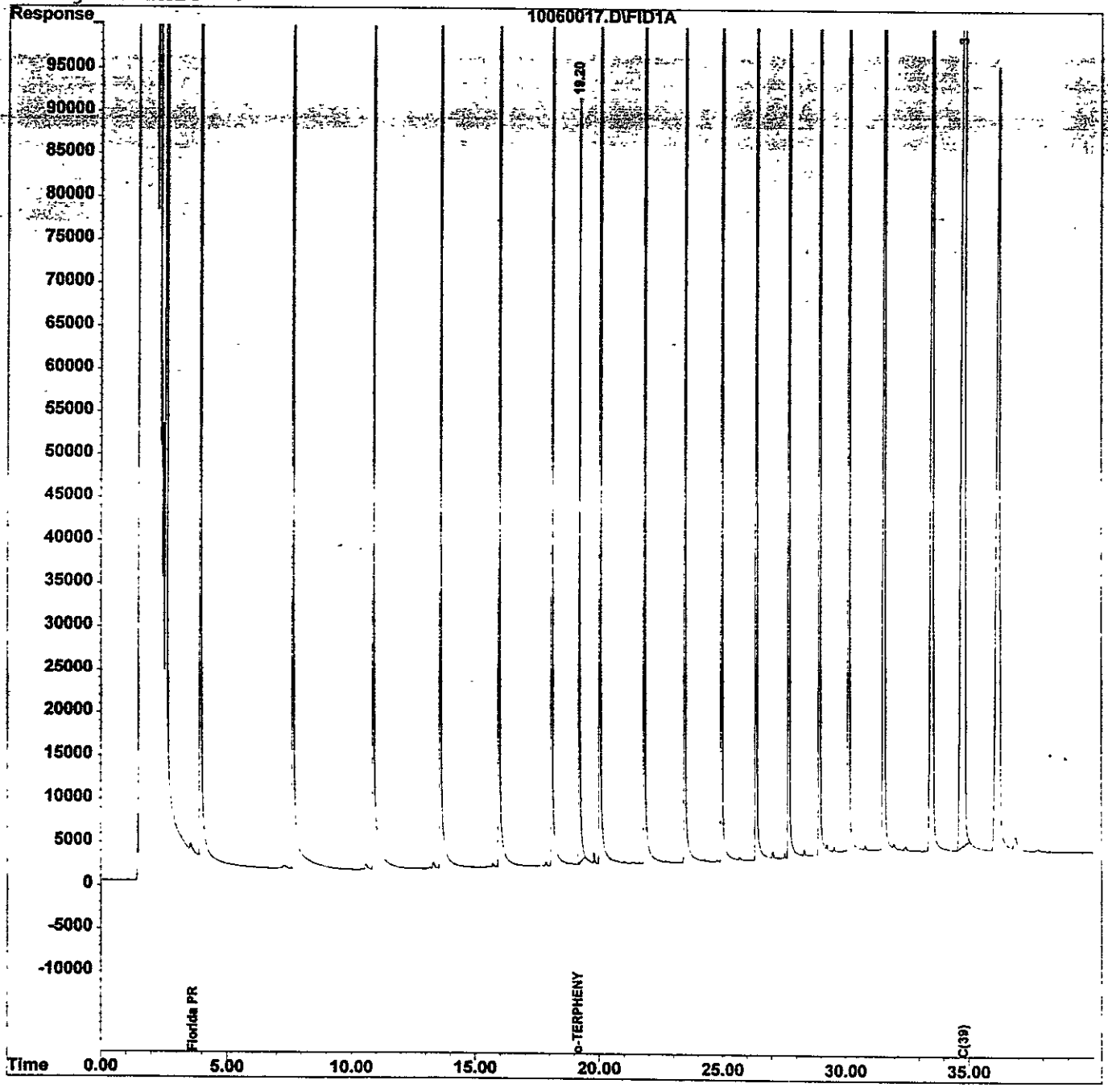
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\2\DATA\100600\10060017.D Vial: 14
Acq On : 7 Oct 2000 5:43 am Operator:
Sample : 4250 PHS PRO CCV Inst : DRO-B
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Oct 9 9:26 2000 Quant Results File: PRO0901.RES

Quant Method : C:\HPCHEM\2\METHODS\PRO0901.M (Chemstation Integrator)
Title : FLORIDA PRO BY GC; INST. #2
Last Update : Fri Sep 01 18:09:33 2000
Response via : Multiple Level Calibration
DataAcq Meth : PRO0901.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\100600\10060014.D Vial: 14
Acq On : 7 Oct 2000 3:18 am Operator:
Sample : 4250 PHS PRO CCV Inst : DRO-B
Misc : MultiplIr: 1.00
IntFile : events.e
Quant Time: Oct 9 9:25 2000 Quant Results File: PRO0901.RES

Quant Method : C:\HPCHEM\2\METHODS\PRO0901.M (Chemstation Integrator)
Title : FLORIDA PRO BY GC; INST. #2
Last Update : Fri Sep 01 18:09:33 2000
Response via : Initial Calibration
DataAcq Meth : PRO0901.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) SC o-TERPHENYL	19.20	2514208	56.968 ug/mlm
Spiked Amount 50.000	Recovery =		113.94% MT
3) SC C(39)	34.82	15092114	323.806 ug/mlm
Spiked Amount 300.000	Recovery =		107.94% MT
Target Compounds			
1) HM Florida PRO	3.70	176248289	4325.795 ug/ml

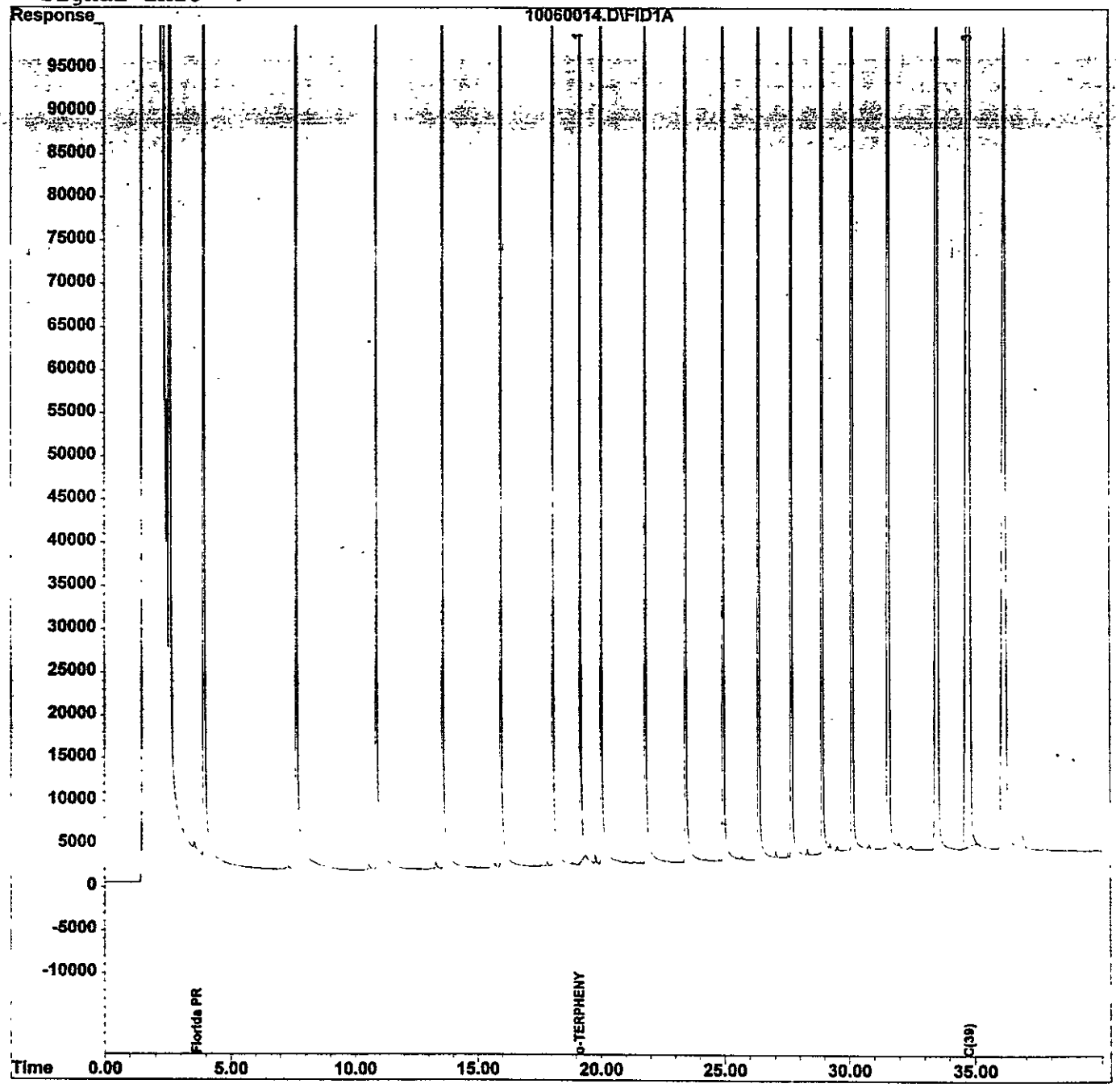
1029% MT

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

Data File : C:\HPCHEM\2\DATA\100600\10060014.D Vial: 14
Acq On : 7 Oct 2000 3:18 am Operator:
Sample : 4250 PHS PRO CCV Inst : DRO-B
Misc : MultiplIr: 1.00
IntFile : events.e
Quant Time: Oct 9 9:25 2000 Quant Results File: PRO0901.RES

Quant Method : C:\HPCHEM\2\METHODS\PRO0901.M (Chemstation Integrator)
Title : FLORIDA PRO BY GC; INST. #2
Last Update : Fri Sep 01 18:09:33 2000
Response via : Multiple Level Calibration
DataAcq Meth : PRO0901.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\100600\10060002.D Vial: 2
Acq On : 6 Oct 2000 5:37 pm Operator:
Sample : 4250 PHS PRO CCV Inst : DRO-B
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Oct 6 18:39 2000 Quant Results File: PRO0901.RES

Quant Method : C:\HPCHEM\2\METHODS\PRO0901.M (Chemstation Integrator)
Title : FLORIDA PRO BY GC; INST. #2
Last Update : Fri Sep 01 18:09:33 2000
Response via : Initial Calibration
DataAcq Meth : PRO0901.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) SC o-TERPHENYL	19.18	2262104	51.256 ug/mlm
Spiked Amount 50.000	Recovery =		102.51% ✓MT
3) SC C(39)	34.77	13643718	292.730 ug/mlm
Spiked Amount 300.000	Recovery =		97.58% ✓MT
Target Compounds			
1) HM Florida PRO	3.70	168921046	4145.957 ug/ml

98% ✓
MT

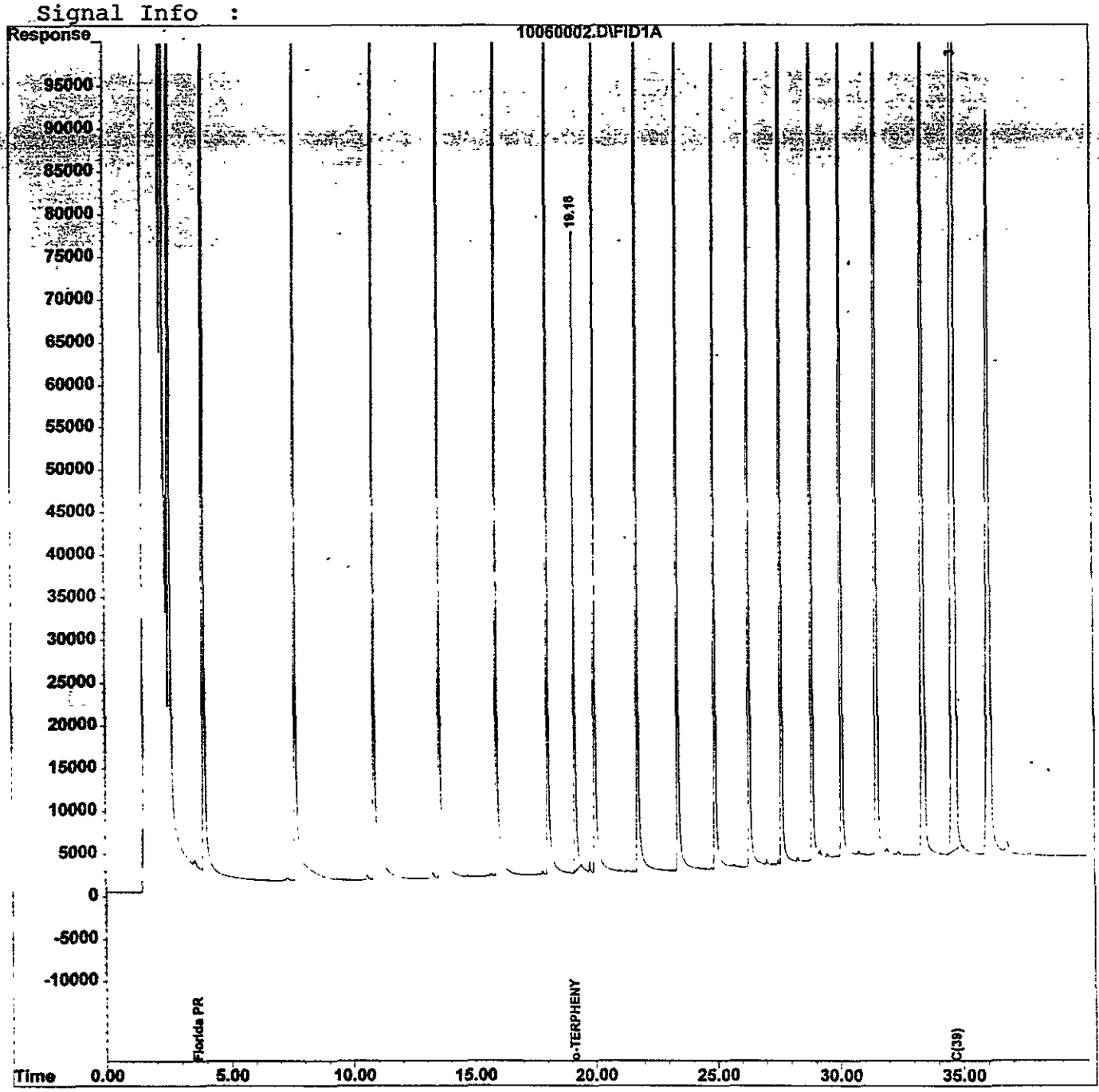
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\2\DATA\100600\10060002.D Vial: 2
Acq On : 6 Oct 2000 5:37 pm Operator:
Sample : 4250 PHS PRO CCV Inst : DRO-B
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Oct 6 18:39 2000 Quant Results File: PRO0901.RES

Quant Method : C:\HPCHEM\2\METHODS\PRO0901.M (Chemstation Integrator)
Title : FLORIDA PRO BY GC; INST. #2
Last Update : Fri Sep 01 18:09:33 2000
Response via : Multiple Level Calibration
DataAcq Meth : PRO0901.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\100600\10060006.D Vial: 6
Acq On : 6 Oct 2000 8:51 pm Operator:
Sample : AC00424 Inst : DRO-B
Misc : 25726 1000mL Multiplr: 1.00
IntFile : events.e
Quant Time: Oct 9 9:22 2000 Quant Results File: PRO0901.RES

Quant Method : C:\HPCHEM\2\METHODS\PRO0901.M (Chemstation Integrator)
Title : FLORIDA PRO BY GC; INST. #2
Last Update : Fri Sep 01 18:09:33 2000
Response via : Initial Calibration
DataAcq Meth : PRO0901.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) SC o-TERPHENYL	19.23	708056	16.044 ug/mlm
Spiked Amount 50.000	Recovery =		32.09% KMT
3) SC C(39)	34.67	2753641	59.080 ug/mlm
Spiked Amount 300.000	Recovery =		19.69% KMT
Target Compounds			
1) HM Florida PRO	3.70	17852630	438.171 ug/ml /1000 =

6.445 B ppm
MT

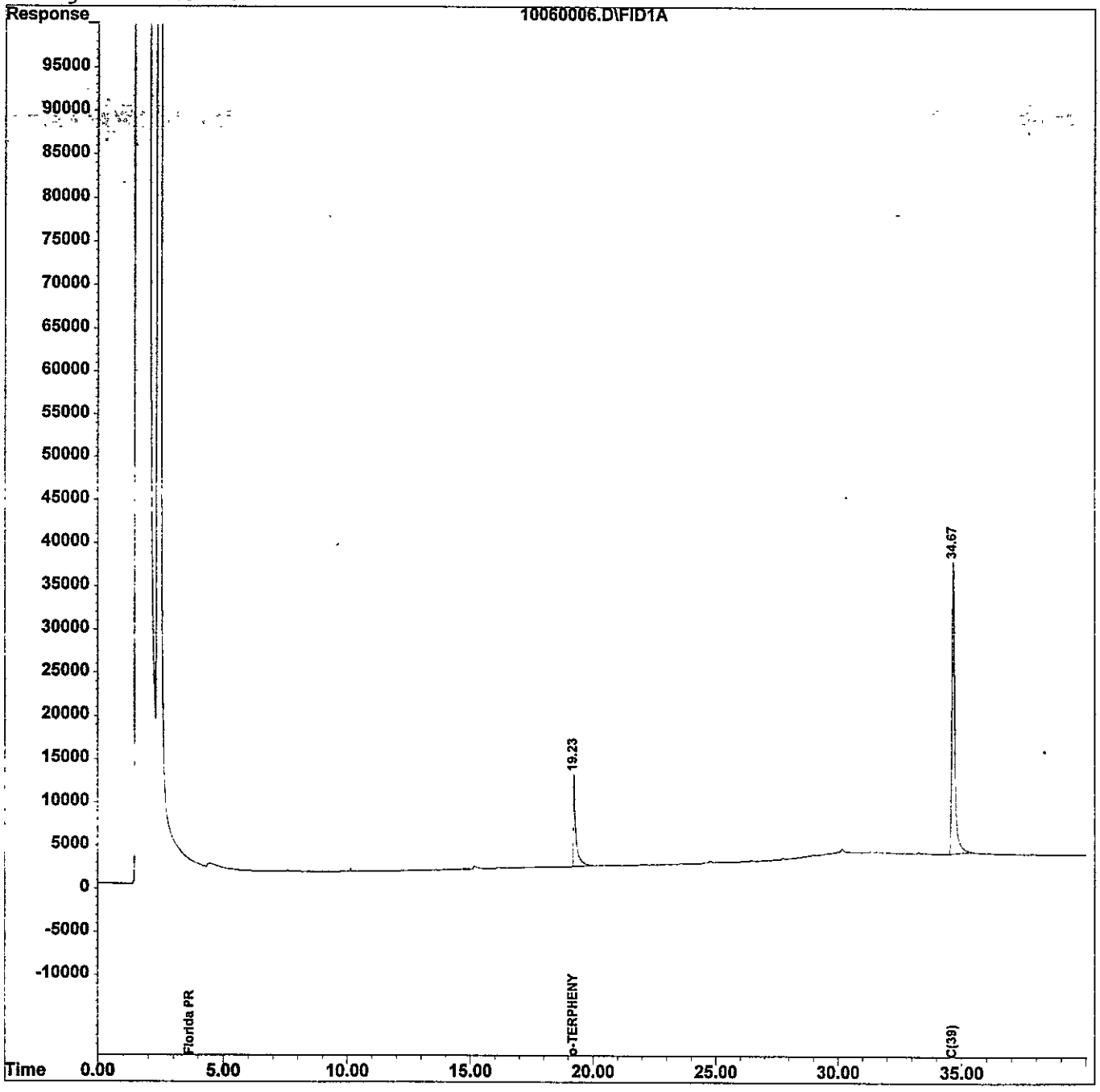
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\2\DATA\100600\10060006.D Vial: 6
Acq On : 6 Oct 2000 8:51 pm Operator:
Sample : AC00424 Inst : DRO-B
Misc : 25726 1000mL Multiplr: 1.00
IntFile : events.e
Quant Time: Oct 9 9:22 2000 Quant Results File: PRO0901.RES

Quant Method : C:\HPCHEM\2\METHODS\PRO0901.M (Chemstation Integrator)
Title : FLORIDA PRO BY GC; INST. #2
Last Update : Fri Sep 01 18:09:33 2000
Response via : Multiple Level Calibration
DataAcq Meth : PRO0901.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\100600\10060007.D Vial: 7
Acq On : 6 Oct 2000 9:39 pm Operator:
Sample : AC00425 Inst : DRO-B
Misc : 25726 1000mL Multiplr: 1.00
IntFile : events.e
Quant Time: Oct 9 9:22 2000 Quant Results File: PRO0901.RES

Quant Method : C:\HPCHEM\2\METHODS\PRO0901.M (Chemstation Integrator)
Title : FLORIDA PRO BY GC; INST. #2
Last Update : Fri Sep 01 18:09:33 2000
Response via : Initial Calibration
DataAcq Meth : PRO0901.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) SC o-TERPHENYL	19.20	1254731	28.430 ug/mlm
Spiked Amount 50.000	Recovery =		56.86% x MT
3) SC C(39)	34.66	1751336	37.575 ug/mlm
Spiked Amount 300.000	Recovery =		12.53% x MT
Target Compounds			
1) HM Florida PRO	3.70	27083852	664.739 ug/ml /1000 =

0.66JB ppm

MT

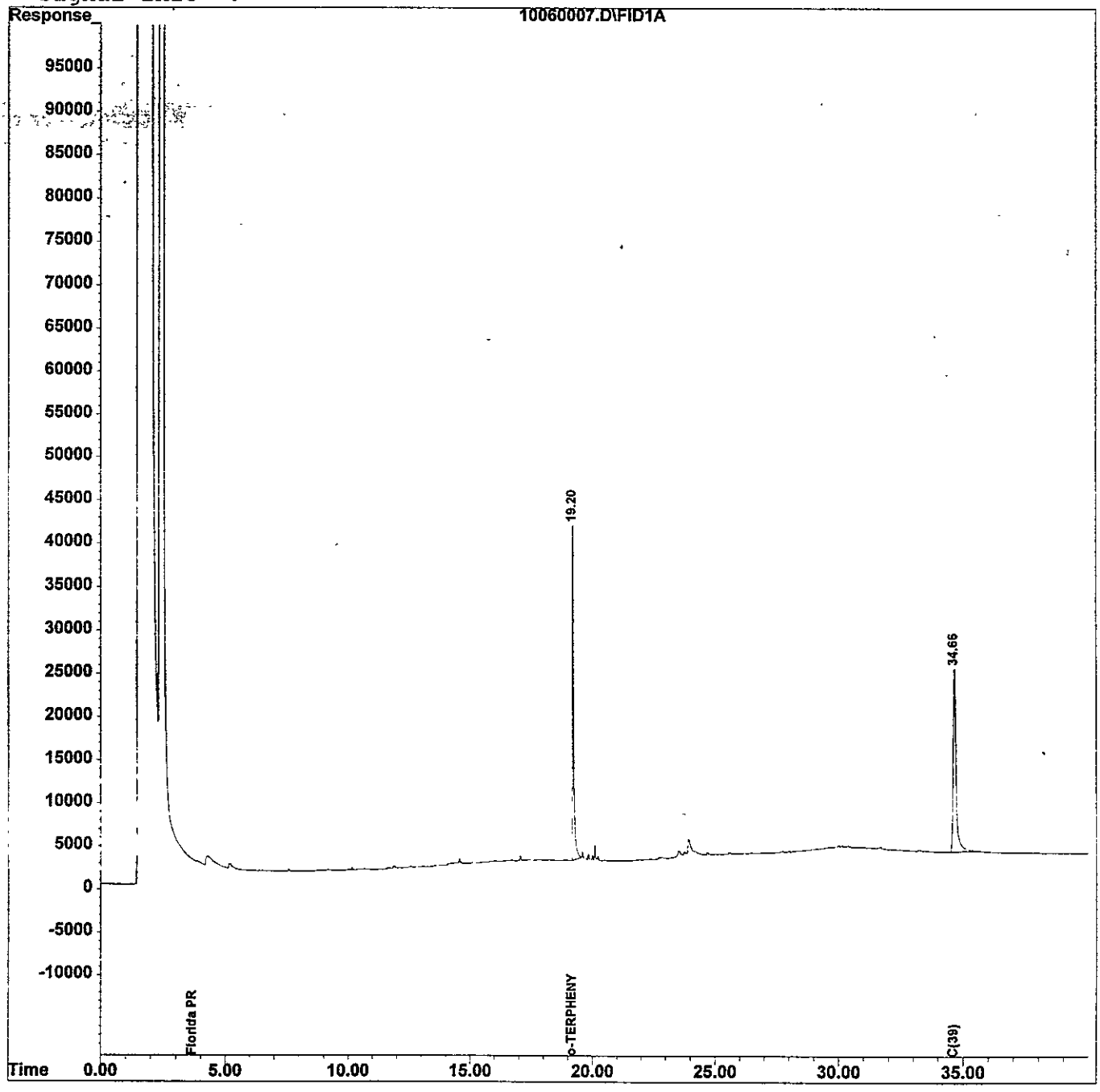
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\2\DATA\100600\10060007.D Vial: 7
Acq On : 6 Oct 2000 9:39 pm Operator:
Sample : AC00425 Inst : DRO-B
Misc : 25726 1000mL Multiplr: 1.00
IntFile : events.e
Quant Time: Oct 9 9:22 2000 Quant Results File: PRO0901.RES

Quant Method : C:\HPCHEM\2\METHODS\PRO0901.M (Chemstation Integrator)
Title : FLORIDA PRO BY GC; INST. #2
Last Update : Fri Sep 01 18:09:33 2000
Response via : Multiple Level Calibration
DataAcq Meth : PRO0901.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\100600\10060008.D Vial: 8
Acq On : 6 Oct 2000 10:28 pm Operator:
Sample : AC00426 Inst : DRO-B
Misc : 25726 1000mL Multiplr: 1.00
IntFile : events.e
Quant Time: Oct 9 9:23 2000 Quant Results File: PRO0901.RES

Quant Method : C:\HPCHEM\2\METHODS\PRO0901.M (Chemstation Integrator)
Title : FLORIDA PRO BY GC; INST. #2
Last Update : Fri Sep 01 18:09:33 2000
Response via : Initial Calibration
DataAcq Meth : PRO0901.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) SC o-TERPHENYL	19.20	724819	16.423 ug/mlm
Spiked Amount 50.000	Recovery =		32.85% x MT
3) SC C(39)	34.69	3951579	84.782 ug/mlm
Spiked Amount 300.000	Recovery =		28.26% x MT
Target Compounds			
1) HM Florida PRO	3.70	30553836	749.906 ug/ml / 1000 =

0.755 ppm

MT

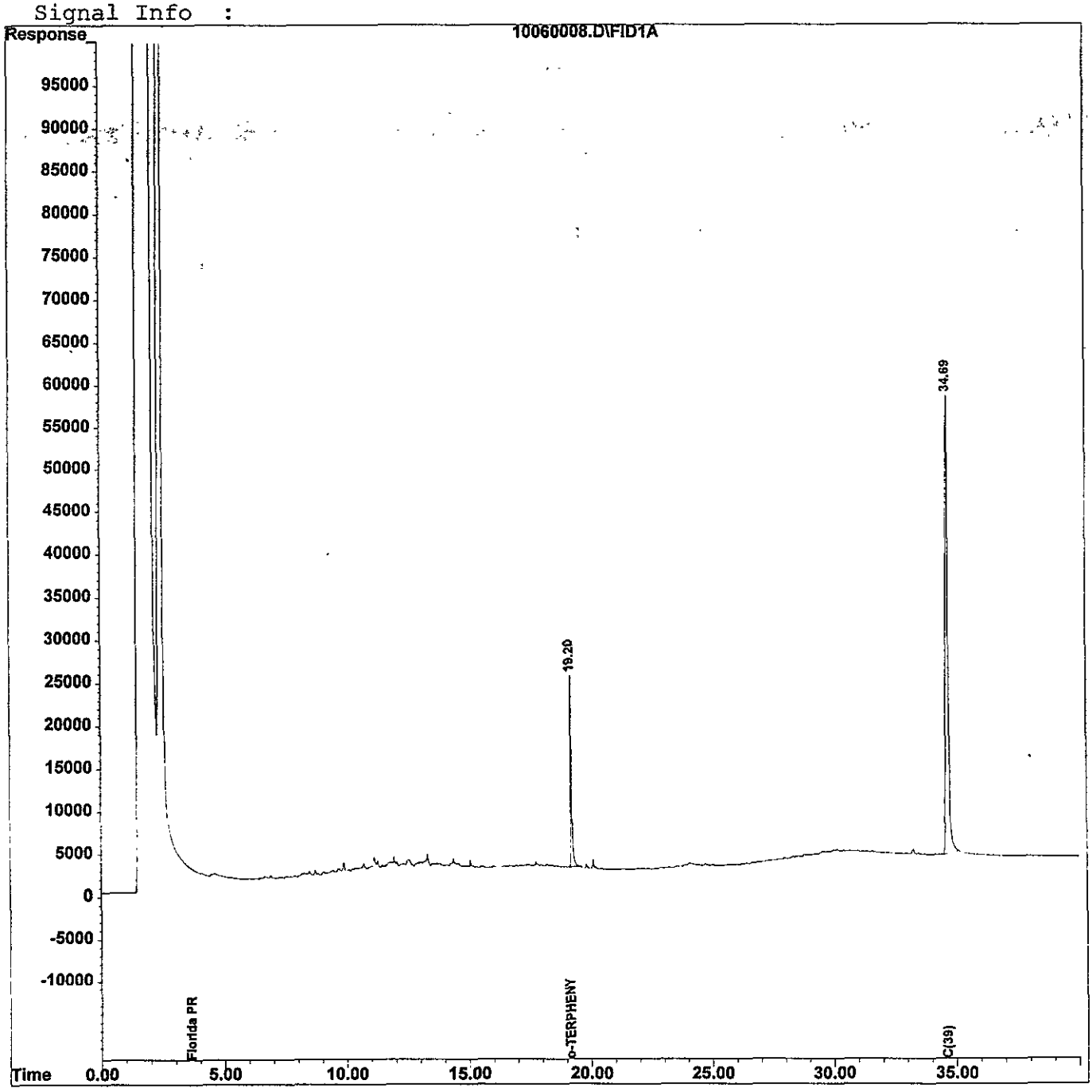
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\2\DATA\100600\10060008.D Vial: 8
Acq On : 6 Oct 2000 10:28 pm Operator:
Sample : AC00426 Inst : DRO-B
Misc : 25726 1000mL Multiplr: 1.00
IntFile : events.e
Quant Time: Oct 9 9:23 2000 Quant Results File: PRO0901.RES

Quant Method : C:\HPCHEM\2\METHODS\PRO0901.M (Chemstation Integrator)
Title : FLORIDA PRO BY GC; INST. #2
Last Update : Fri Sep 01 18:09:33 2000
Response via : Multiple Level Calibration
DataAcq Meth : PRO0901.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\100600\10060009.D Vial: 9
Acq On : 6 Oct 2000 11:16 pm Operator:
Sample : AC00427 Inst : DRO-B
Misc : 25726 1000mL Multiplr: 1.00
IntFile : events.e
Quant Time: Oct 9 9:23 2000 Quant Results File: PRO0901.RES

Quant Method : C:\HPCHEM\2\METHODS\PRO0901.M (Chemstation Integrator)
Title : FLORIDA PRO BY GC; INST. #2
Last Update : Fri Sep 01 18:09:33 2000
Response via : Initial Calibration
DataAcq Meth : PRO0901.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) SC o-TERPHENYL	19.20	672979	15.249 ug/mlm
Spiked Amount 50.000	Recovery =		30.50% x MT
3) SC C(39)	34.68	2397923	51.448 ug/mlm
Spiked Amount 300.000	Recovery =		17.15% x MT
Target Compounds			
1) HM Florida PRO	3.70	29646479	727.636 ug/ml / 1000 = 0.735 B ppm

MT

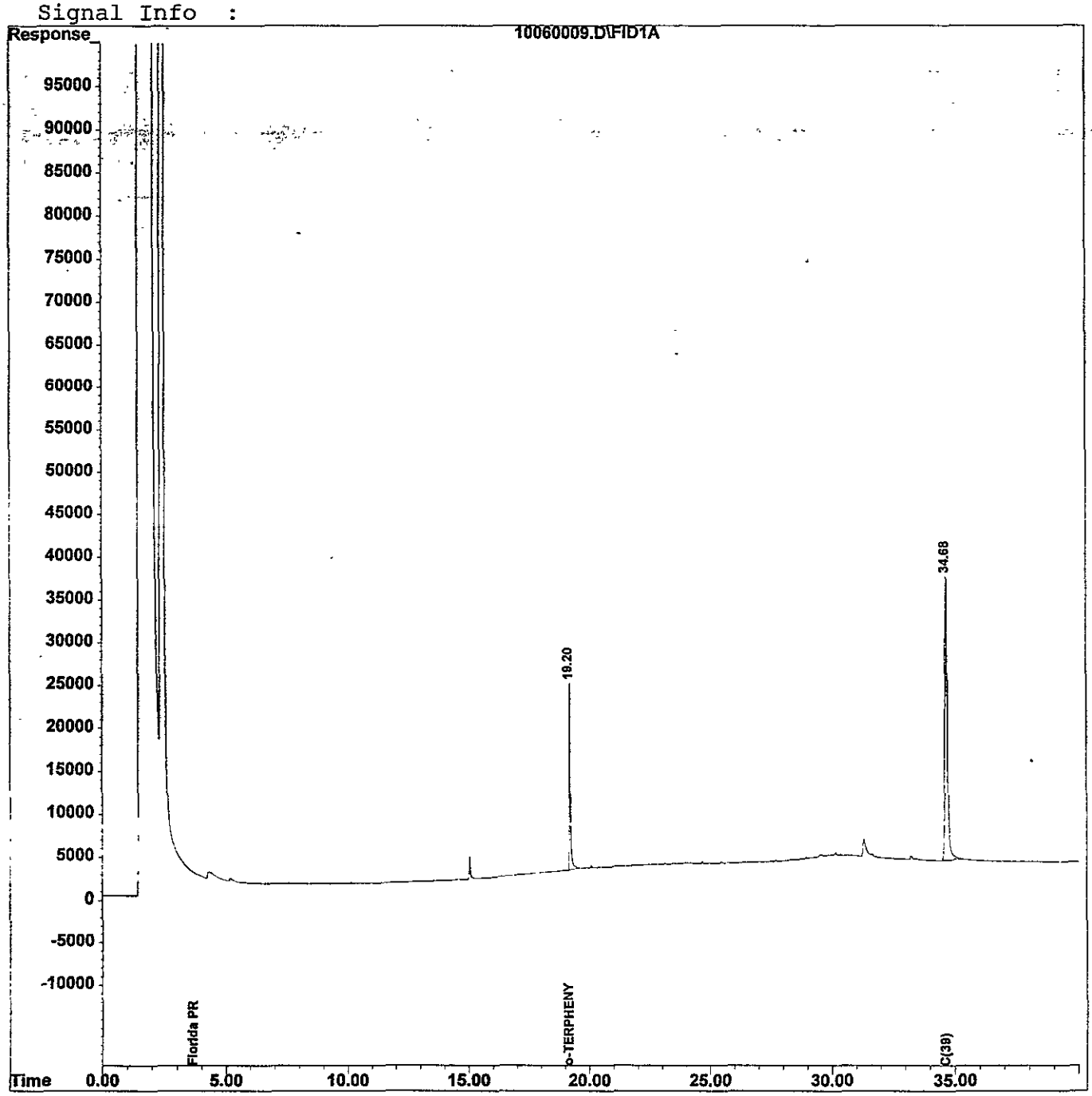
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\2\DATA\100600\10060009.D Vial: 9
Acq On : 6 Oct 2000 11:16 pm Operator:
Sample : AC00427 Inst : DRO-B
Misc : 25726 1000mL Multiplr: 1.00
IntFile : events.e
Quant Time: Oct 9 9:23 2000 Quant Results File: PRO0901.RES

Quant Method : C:\HPCHEM\2\METHODS\PRO0901.M (Chemstation Integrator)
Title : FLORIDA PRO BY GC; INST. #2
Last Update : Fri Sep 01 18:09:33 2000
Response via : Multiple Level Calibration
DataAcq Meth : PRO0901.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\100600\10060010.D Vial: 10
Acq On : 7 Oct 2000 12:05 am Operator:
Sample : AC00428 Inst : DRO-B
Misc : 25726 1000mL Multiplr: 1.00
IntFile : events.e
Quant Time: Oct 9 9:24 2000 Quant Results File: PRO0901.RES

Quant Method : C:\HPCHEM\2\METHODS\PRO0901.M (Chemstation Integrator)
Title : FLORIDA PRO BY GC; INST. #2
Last Update : Fri Sep 01 18:09:33 2000
Response via : Initial Calibration
DataAcq Meth : PRO0901.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) SC o-TERPHENYL	19.20	592235	13.419 ug/mlm
Spiked Amount 50.000	Recovery =		26.84% x MT
3) SC C(39)	34.70	3861582	82.851 ug/mlm
Spiked Amount 300.000	Recovery =		27.62% x MT
Target Compounds			
1) HM Florida PRO	3.70	25123780	616.632 ug/ml / 1000 =

0.6258 ppm
MT

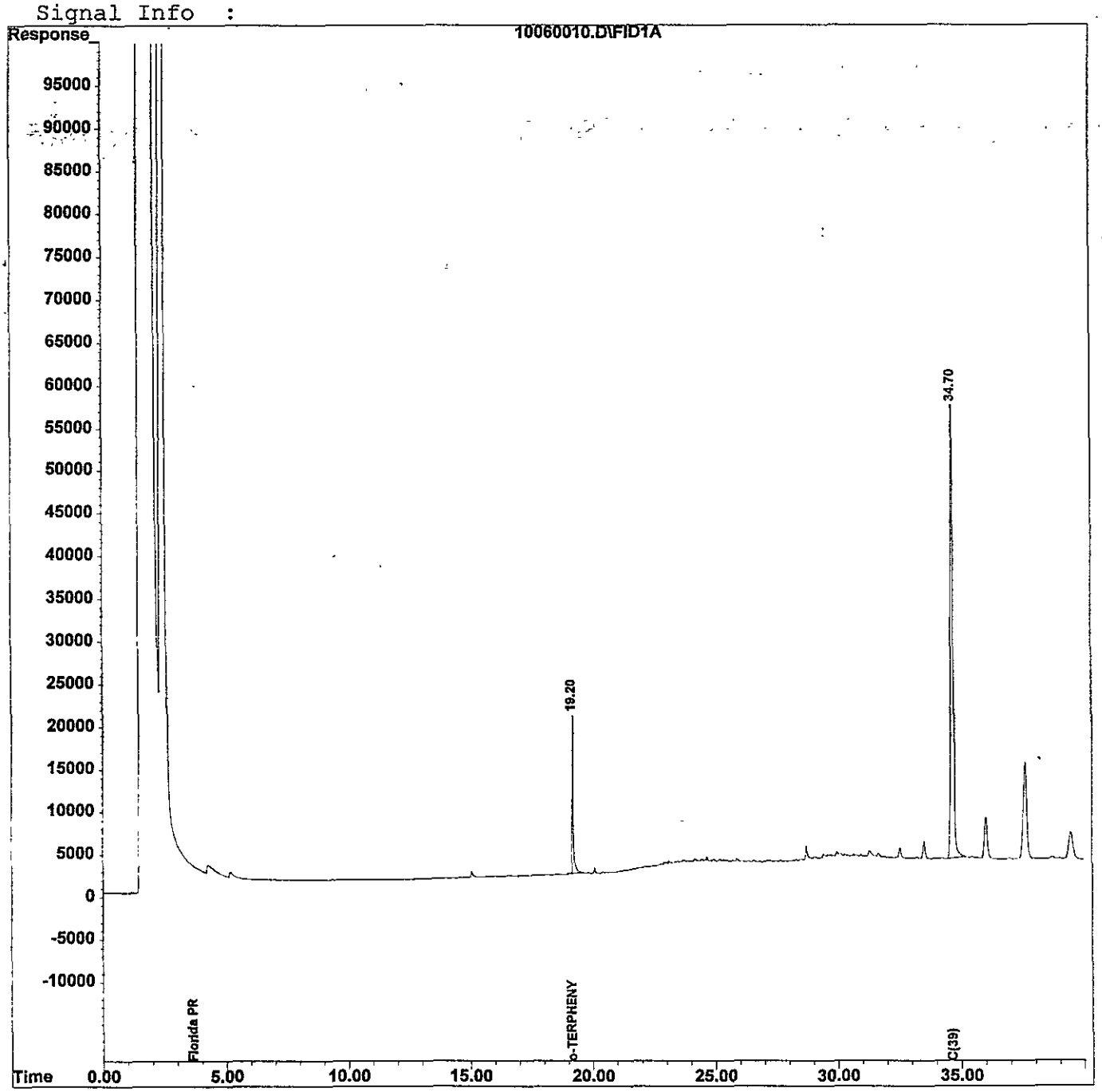
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\2\DATA\100600\10060010.D Vial: 10
Acq On : 7 Oct 2000 12:05 am Operator:
Sample : AC00428 Inst : DRO-B
Misc : 25726 1000mL Multiplr: 1.00
IntFile : events.e
Quant Time: Oct 9 9:24 2000 Quant Results File: PRO0901.RES

Quant Method : C:\HPCHEM\2\METHODS\PRO0901.M (Chemstation Integrator)
Title : FLORIDA PRO BY GC; INST. #2
Last Update : Fri Sep 01 18:09:33 2000
Response via : Multiple Level Calibration
DataAcq Meth : PRO0901.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\100600\10060011.D Vial: 11
Acq On : 7 Oct 2000 12:53 am Operator:
Sample : AC00429 Inst : DRO-B
Misc : 25726 1000mL Multiplr: 1.00
IntFile : events.e
Quant Time: Oct 9 9:24 2000 Quant Results File: PRO0901.RES

Quant Method : C:\HPCHEM\2\METHODS\PRO0901.M (Chemstation Integrator)
Title : FLORIDA PRO BY GC; INST. #2
Last Update : Fri Sep 01 18:09:33 2000
Response via : Initial Calibration
DataAcq Meth : PRO0901.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) SC o-TERPHENYL	19.20	1136704	25.756 ug/mlm
Spiked Amount 50.000		Recovery =	51.51% x MT
3) SC C(39)	34.68	2898468	62.188 ug/mlm
Spiked Amount 300.000		Recovery =	20.73% x MT
Target Compounds			
1) HM Florida PRO	3.70	317996666	7804.833 ug/ml / 1000 =

7.8 ppm
MT

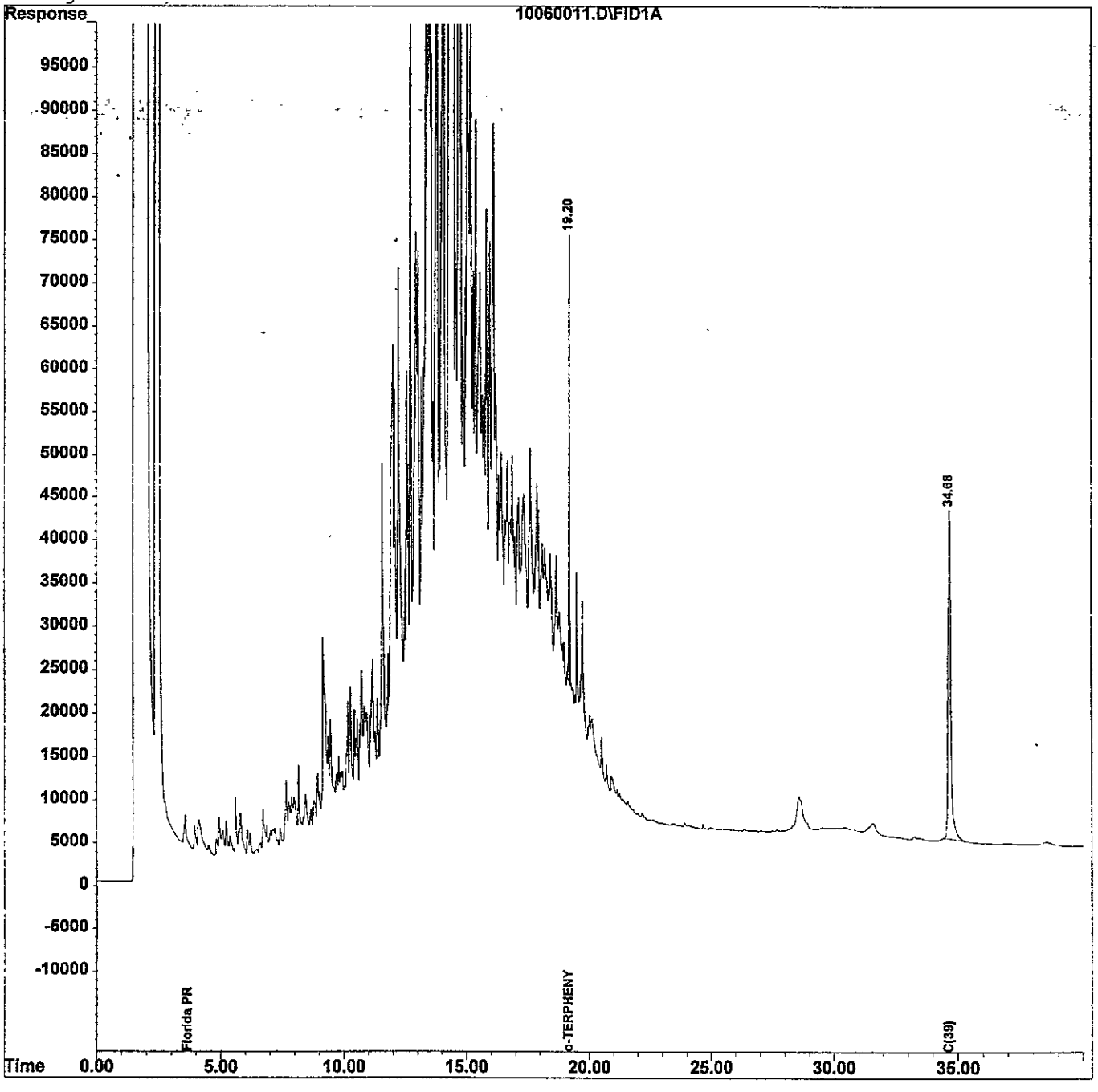
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\2\DATA\100600\10060011.D Vial: 11
Acq On : 7 Oct 2000 12:53 am Operator:
Sample : AC00429 Inst : DRO-B
Misc : 25726 1000mL Multiplr: 1.00
IntFile : events.e
Quant Time: Oct 9 9:24 2000 Quant Results File: PRO0901.RES

Quant Method : C:\HPCHEM\2\METHODS\PRO0901.M (Chemstation Integrator)
Title : FLORIDA PRO BY GC; INST. #2
Last Update : Fri Sep 01 18:09:33 2000
Response via : Multiple Level Calibration
DataAcq Meth : PRO0901.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\100600\10060012.D Vial: 12
Acq On : 7 Oct 2000 1:41 am Operator:
Sample : AC00430 Inst : DRO-B
Misc : 25726 1000mL Multiplr: 1.00
IntFile : events.e
Quant Time: Oct 9 9:25 2000 Quant Results File: PRO0901.RES

Quant Method : C:\HPCHEM\2\METHODS\PRO0901.M (Chemstation Integrator)
Title : FLORIDA PRO BY GC; INST. #2
Last Update : Fri Sep 01 18:09:33 2000
Response via : Initial Calibration
DataAcq Meth : PRO0901.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) SC o-TERPHENYL	19.21	682128	15.456 ug/mlm
Spiked Amount 50.000	Recovery =		30.91% x M_T
3) SC C(39)	34.68	1677764	35.997 ug/mlm
Spiked Amount 300.000	Recovery =		12.00% x M_T
Target Compounds			
1) HM Florida PRO	3.70	19886531	488.090 ug/ml /1000 =

0.49JB ppm

M_T

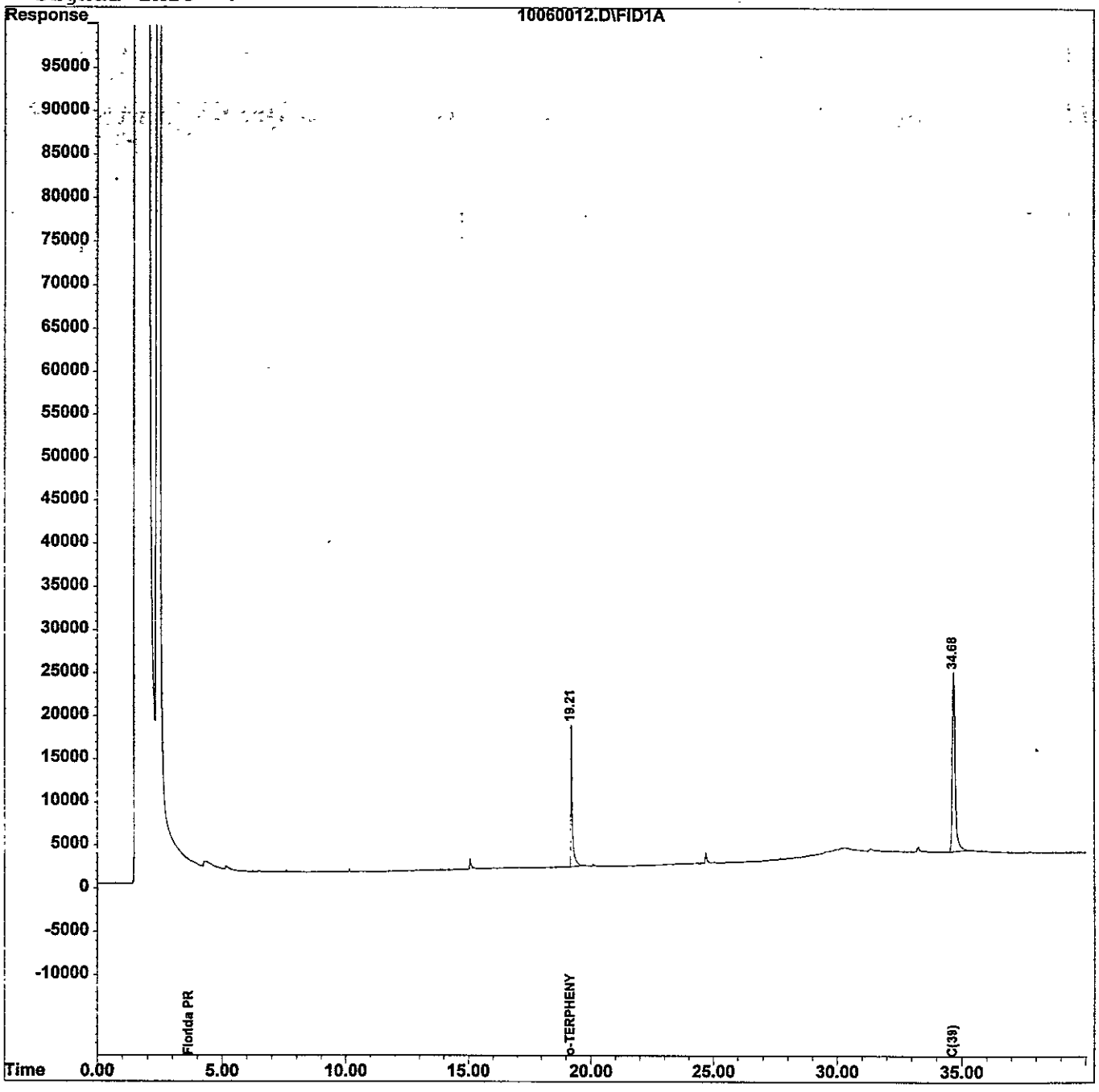
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\2\DATA\100600\10060012.D Vial: 12
Acq On : 7 Oct 2000 1:41 am Operator:
Sample : AC00430 Inst : DRO-B
Misc : 25726 1000mL Multiplr: 1.00
IntFile : events.e
Quant Time: Oct 9 9:25 2000 Quant Results File: PRO0901.RES

Quant Method : C:\HPCHEM\2\METHODS\PRO0901.M (Chemstation Integrator)
Title : FLORIDA PRO BY GC; INST. #2
Last Update : Fri Sep 01 18:09:33 2000
Response via : Multiple Level Calibration
DataAcq Meth : PRO0901.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\100600\10060015.D Vial: 15
Acq On : 7 Oct 2000 4:06 am Operator:
Sample : AC00431 Inst : DRO-B
Misc : 25726 1000mL Multiplr: 1.00
IntFile : events.e
Quant Time: Oct 9 9:26 2000 Quant Results File: PRO0901.RES

Quant Method : C:\HPCHEM\2\METHODS\PRO0901.M (Chemstation Integrator)
Title : FLORIDA PRO BY GC; INST. #2
Last Update : Fri Sep 01 18:09:33 2000
Response via : Initial Calibration
DataAcq Meth : PRO0901.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) SC o-TERPHENYL	19.20	1701080	38.544 ug/mlm
Spiked Amount 50.000	Recovery =		77.09% x MT
3) SC C(39)	34.69	2500373	53.646 ug/mlm
Spiked Amount 300.000	Recovery =		17.88% x MT
Target Compounds			
1) HM Florida PRO	3.70	15802748	387.859 ug/ml / 1000 =

0.3958 ppm

MT

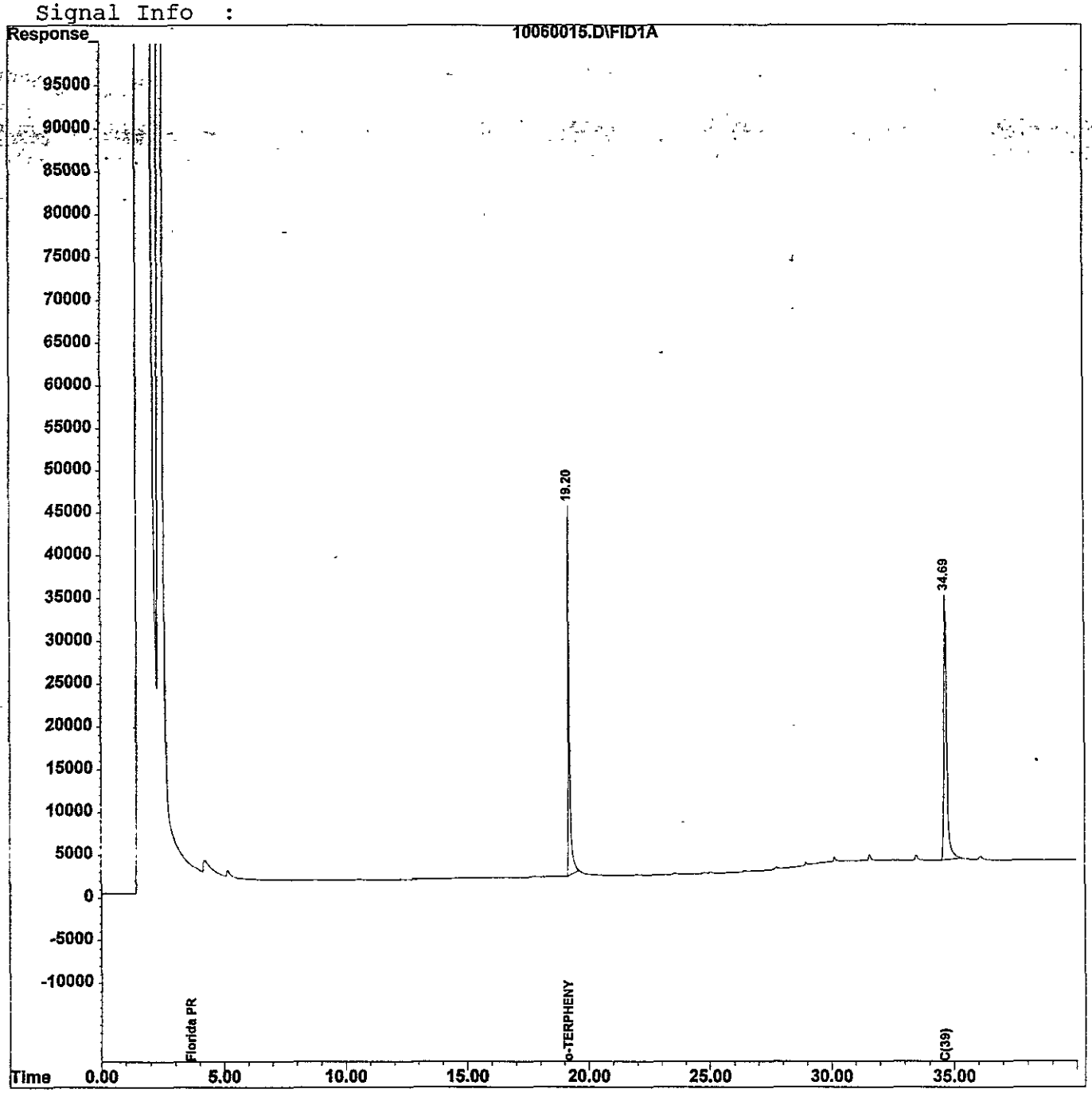
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\2\DATA\100600\10060015.D Vial: 15
Acq On : 7 Oct 2000 4:06 am Operator:
Sample : AC00431 Inst : DRO-B
Misc : 25726 1000mL Multiplr: 1.00
IntFile : events.e
Quant Time: Oct 9 9:26 2000 Quant Results File: PRO0901.RES

Quant Method : C:\HPCHEM\2\METHODS\PRO0901.M (Chemstation Integrator)
Title : FLORIDA PRO BY GC; INST. #2
Last Update : Fri Sep 01 18:09:33 2000
Response via : Multiple Level Calibration
DataAcq Meth : PRO0901.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\100600\10060003.D Vial: 3
Acq On : 6 Oct 2000 6:26 pm Operator:
Sample : PROW BLANK 1005 Inst : DRO-B
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Oct 9 9:20 2000 Quant Results File: PRO0901.RES

Quant Method : C:\HPCHEM\2\METHODS\PRO0901.M (Chemstation Integrator)
Title : FLORIDA PRO BY GC; INST. #2
Last Update : Fri Sep 01 18:09:33 2000
Response via : Initial Calibration
DataAcq Meth : PRO0901.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) SC o-TERPHENYL	19.19	1880231	42.603 ug/mlm
Spiked Amount 50.000	Recovery =		85.21% NT
3) SC C(39)	34.65	1969192	42.250 ug/mlm
Spiked Amount 300.000	Recovery =		14.08% x NT
Target Compounds			
1) HM Florida PRO	3.70	19883626	488.019 ug/ml / 1000 =

0.495 ppm = < ½ RDL ✓

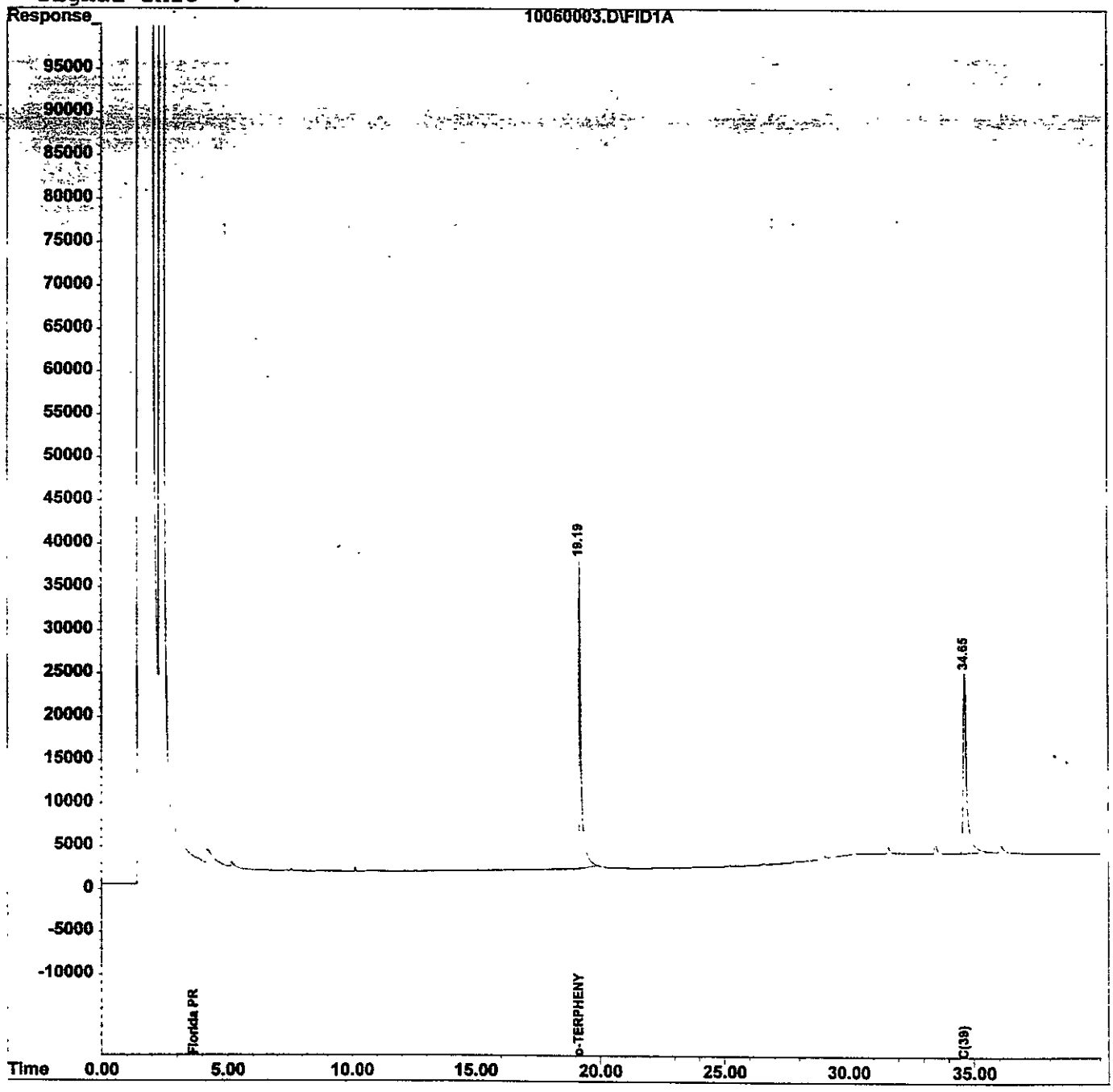
NT

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

Data File : C:\HPCHEM\2\DATA\100600\10060003.D Vial: 3
Acq On : 6 Oct 2000 6:26 pm Operator:
Sample : PROW BLANK 1005 Inst : DRO-B
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Oct 9 9:20 2000 Quant Results File: PRO0901.RES

Quant Method : C:\HPCHEM\2\METHODS\PRO0901.M (Chemstation Integrator)
Title : FLORIDA PRO BY GC; INST. #2
Last Update : Fri Sep 01 18:09:33 2000
Response via : Multiple Level Calibration
DataAcq Meth : PRO0901.M

Volume Inj. :
Signal Phase :
Signal Info :



Accura Analytical Laboratory, Inc.

LCS/LCSD Report

Sample ID: PROW LCS/LCSD 1005 **Date Acquired:** 10/6/00

Operator: MT **Instrument ID:** DRO-A

Data File: 10060004+05 **Bottle #:** 4+5

Method: FL-PRO **Matrix:** Water

Compound	Expected Rec. (ppm)	LCS Rec. (ppm)	LCS % Recovery	LCSD Rec. (ppm)	LCSD % Recovery	Recovery Limits (%)	MS Pass/ Fail	MSD Pass/ Fail	%RPD	%RPD Limit	%RPD Pass/ Fail
DRO	4.25	2.737	64%	2.493	59%	55 - 118	Pass	Pass	9%	< 25	Pass

Surrogates	Expected Rec. (ppm)	LCS Rec. (ppm)	LCS % Recovery	LCSD Rec. (ppm)	LCSD % Recovery	Recovery Limits (%)*	LCS Pass/ Fail	LCSD Pass/ Fail
O-TERPHENYL	50	36.668	73%	32.132	64%	82 - 142	Fail	Fail
C (39)	300	24.269	8%	15.072	5%	42 - 193	Fail	Fail

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\100600\10060004.D Vial: 4
Acq On : 6 Oct 2000 7:14 pm Operator:
Sample : PROW LCS 1005 Inst : DRO-B
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Oct 9 9:20 2000 Quant Results File: PRO0901.RES

Quant Method : C:\HPCHEM\2\METHODS\PRO0901.M (Chemstation Integrator)
Title : FLORIDA PRO BY GC; INST. #2
Last Update : Fri Sep 01 18:09:33 2000
Response via : Initial Calibration
DataAcq Meth : PRO0901.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) SC o-TERPHENYL	19.19	1618277	36.668 ug/mlm
Spiked Amount 50.000	Recovery =		73.34%
3) SC C(39)	34.66	1131152	24.269 ug/mlm
Spiked Amount 300.000	Recovery =		8.09%
Target Compounds			
1) HM Florida PRO	3.70	111532214	2737.420 ug/ml

2.737 / 4.25 x 100% =

64% ✓

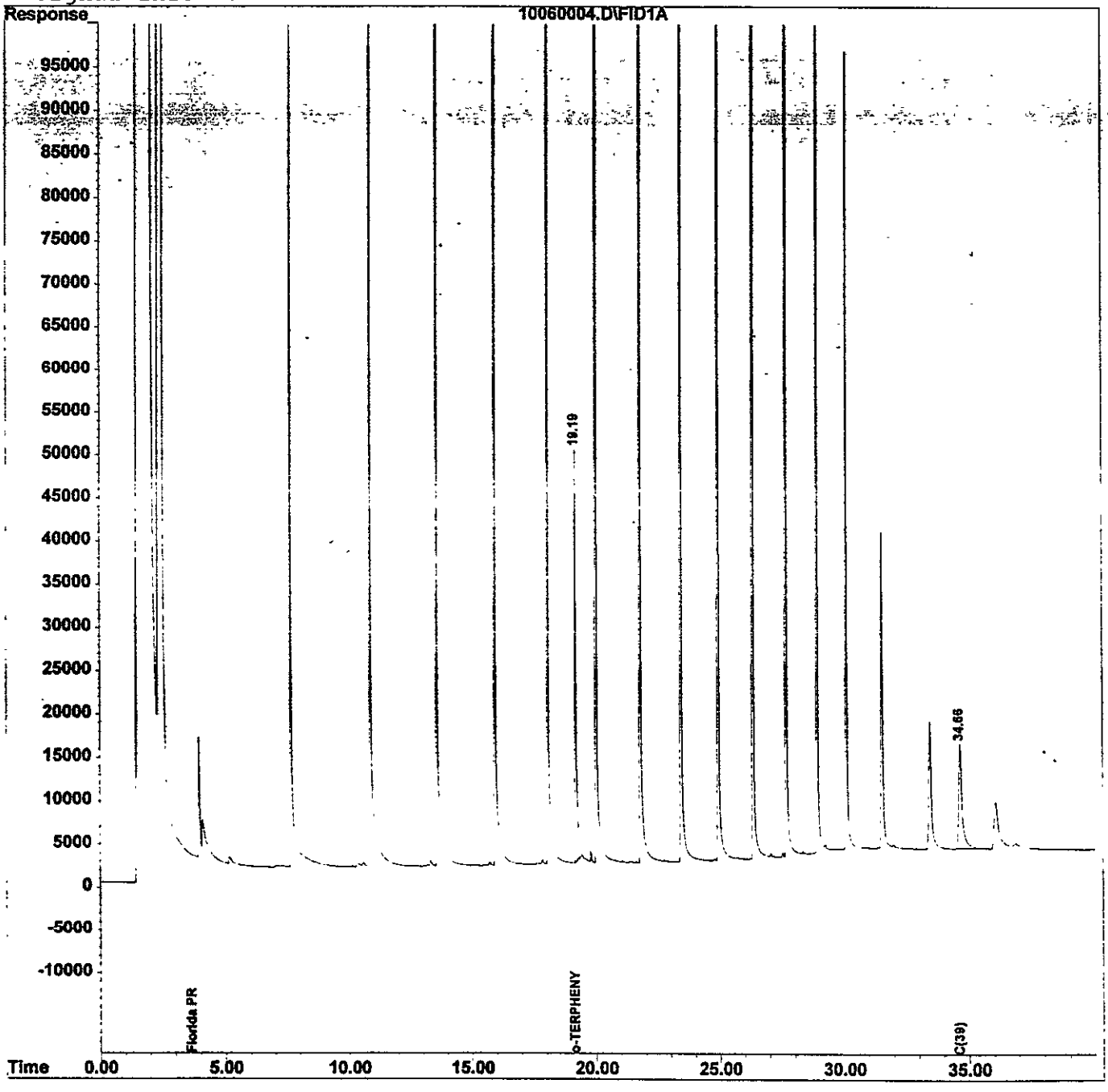
NT

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

Data File : C:\HPCHEM\2\DATA\100600\10060004.D Vial: 4
Acq On : 6 Oct 2000 7:14 pm Operator:
Sample : PROW LCS 1005 Inst : DRO-B
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Oct 9 9:20 2000 Quant Results File: PRO0901.RES

Quant Method : C:\HPCHEM\2\METHODS\PRO0901.M (Chemstation Integrator)
Title : FLORIDA PRO BY GC; INST. #2
Last Update : Fri Sep 01 18:09:33 2000
Response via : Multiple Level Calibration
DataAcq Meth : PRO0901.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\100600\10060005.D Vial: 5
Acq On : 6 Oct 2000 8:03 pm Operator:
Sample : PROW LCSD 1005 Inst : DRO-B
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Oct 9 9:21 2000 Quant Results File: PRO0901.RES

Quant Method : C:\HPCHEM\2\METHODS\PRO0901.M (Chemstation Integrator)
Title : FLORIDA PRO BY GC; INST. #2
Last Update : Fri Sep 01 18:09:33 2000
Response via : Initial Calibration
DataAcq Meth : PRO0901.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) SC o-TERPHENYL	19.20	1418105	32.132 ug/mlm
Spiked Amount 50.000	Recovery =		64.26%
3) SC C(39)	34.68	702506	15.072 ug/mlm
Spiked Amount 300.000	Recovery =		5.02%
Target Compounds			
1) HM Florida PRO	3.70	101585077	2493.279 ug/ml

2.493 / 4.25 x 100% =

59% ✓

MT

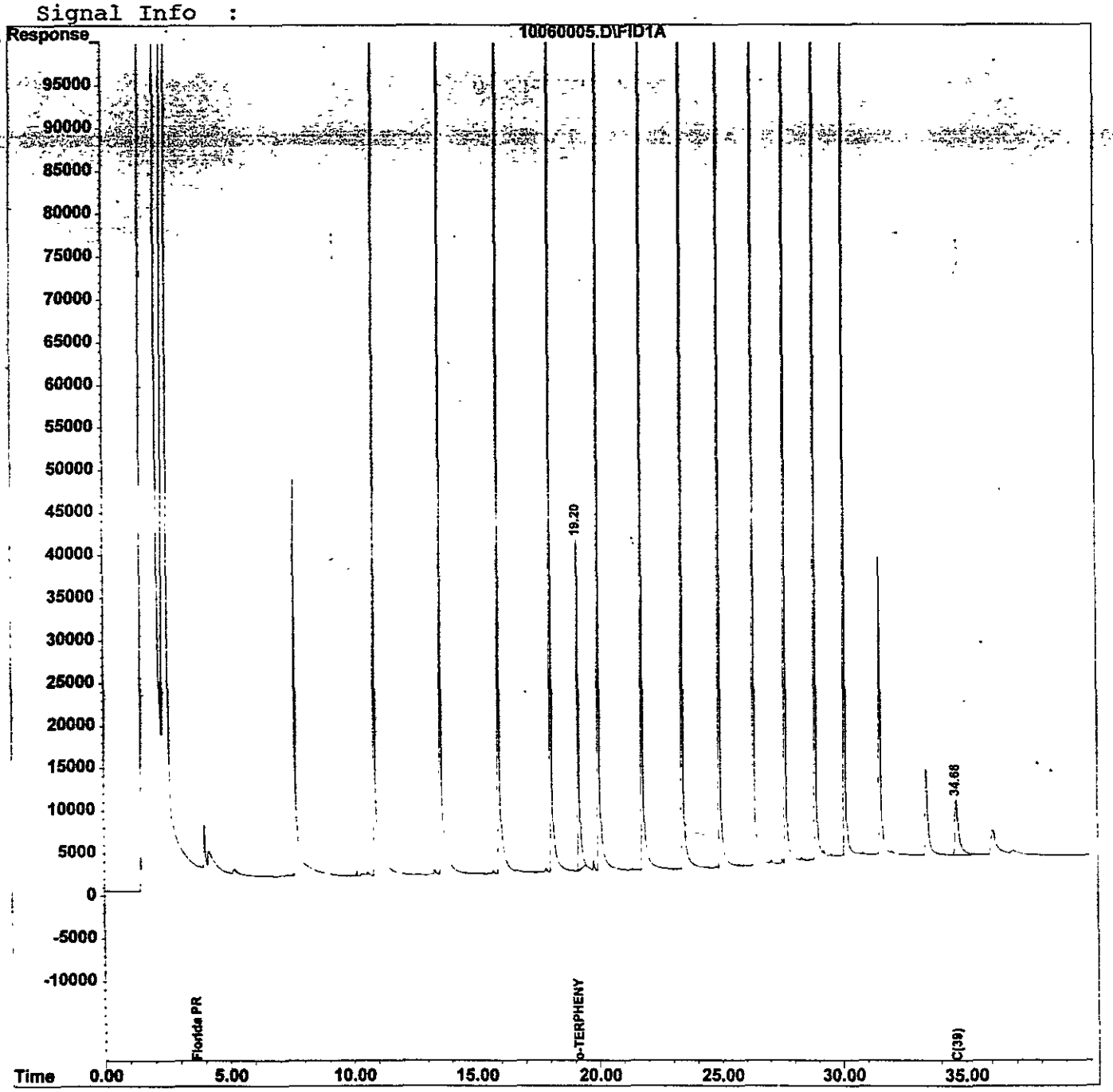
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\2\DATA\100600\10060005.D Vial: 5
Acq On : 6 Oct 2000 8:03 pm Operator:
Sample : PROW LCSD 1005 Inst : DRO-B
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Oct 9 9:21 2000 Quant Results File: PRO0901.RES

Quant Method : C:\HPCHEM\2\METHODS\PRO0901.M (Chemstation Integrator)
Title : FLORIDA PRO BY GC; INST. #2
Last Update : Fri Sep 01 18:09:33 2000
Response via : Multiple Level Calibration
DataAcq Meth : PRO0901.M

Volume Inj. :
Signal Phase :
Signal Info :



SVO GC CALIBRATION CHECKLIST
SW-846-8015B

DATE / INSTRUMENT: 6-14-00 / Inst. #2	METHOD: 8015B
MATRIX: Water/Soil	

Are all standards within expiration dates for both stock and serial standards?	(Y)	N	NA
Is the Initial Calibration compliant with the method specifications?	(Y)	N	NA
Were daily retention time windows updated?	(Y)	N	NA
Is the runlog completely filled out (including review signature/date)?	(Y)	N	NA
Are all mistakes single lined, initialled, and dated?	(Y)	N	NA

Analyst: MT		Reviewer: YGK	
Date: 6-16-00	Time: 14:30	Date: 06/16/00	Time: 16:00

ACCURA ANALYTICAL LABORATORY, INC.

Environmental Analytical Services

Date Analyzed: 6-14-00
Analyst Initials: MT
Run Method: PRO614
Quant method: ↓

	Surrogate Recovery Limits (OTP %):	C(35)
Soils	~~50-150~~ 62-109	60-118
Water	~~50-150~~ 82-142	42-93

INITIAL CALIBRATION
Compound: FL PRO
Date: 6-14-00

Sequence Directory:

Vial Position	AAL #	Extraction Date	Matrix	Dilution Factor	OTP (C(35)) Recovery	~~DRO~~ PRO Spike Recovery	Comments/Observations
1	Solvent Blank	NA	$MeCl_2$	1X	NA	NA	
2	850 PHS PRO ICAL	|	Std.	|	|	|	005V118
3	2650	|	|	|	|	|	005V119
4	4250	|	|	|	|	|	005V120
5	5950	|	|	|	|	|	005V121
6	8500 ↓	|	↓	|	|	|	005V122
7	Solvent Blank.	|	$MeCl_2$	|	|	↓	
8	4250 PHS PRO ICV	↓	Std.	↓	117 / 120	110	005V117
					MT 6-16-00		

DRO-REV2.XLS

Initials\Date: MT 6-16-00

Approved By\Date: _____

ACCURA ANALYTICAL LABORATORY, INC.

Environmental Analytical Services

Standard Name: PRO ICAL
Lab Standard ID# 005V118 - 005V122

Date Made: 6-14-00
Expire Date: 12-14-00
Matrix: $MeCl_2$

Prepared By: MT

Standard	Lot\Lab ID#	Conc.	Amount Used	Final Conc.
Florida TRPH Std	500A071-8,9	500 ppm	100 µl	850 PPM
↓	↓	↓	300 ↓	2550 ↓
			500	4250
			700	5950
↓	↓	↓	1000 ↓	8500 ↓
OTP	EX9910Z-10	10,000 ppm	5µl added to 1ml std.	50 ppm
C(39)	500A092-1	2000 ↓	5µl ↓	150 ppm
$MeCl_2$	EX00040	—	*	—
	* All stds. brought up to a final vol			
	of 1ml $MeCl_2$ MT		6-14-00	

Standard Name: _____
Lab Standard ID# _____

Date Made: _____
Expire Date: _____
Matrix: _____

Prepared By: _____

Standard	Lot\Lab ID#	Conc.	Amount Used	Final Conc.

ACCURA ANALYTICAL LABORATORY, INC.

Environmental Analytical Services

Standard Name: FL PRO CCV
Lab Standard ID#: COSV173

Date Made: 8-11-00
Expire Date: 2-11-00
Matrix: $MeCl_2$

Prepared By: MT

Standard	Lot\Lab ID#	Conc.	Amount Used	Final Conc.
FL TRPH Std.	500A116	500 ppm	1mL	4250 PHS
OTP	500AOT3-1	10,000 ↓	10µl	50 ppm
C(35)	500AOT2-4	3000 ↓	100µl	150 ↓
$MeCl_2$	EX-00064	—	~~1mL~~ 890µl	—
			M-8-9-00	
	MT 8-11-00			

Standard Name: _____
Lab Standard ID#: _____

Date Made: _____
Expire Date: _____
Matrix: _____

Prepared By: _____

Standard	Lot\Lab ID#	Conc.	Amount Used	Final Conc.

STPRLGFR.XLS

DATA ANALYSIS PARAMETERS

Method Name: C:\HPCHEM\2\METHODS\PRO0614.M

Percent Report Settings

Sort By: Signal

Output Destination
    Screen: No
    Printer: Yes
    File: No

Integration Events: AutoIntegrate

Generate Report During Run Method: No

Signal Correlation Window: 0.020

Quantitative Report Settings

Report Type: Summary

Output Destination
    Screen: No
    Printer: No
    File: No

Generate Report During Run Method: Yes

FLORIDA PRO BY GC; INST. #2
Calibration Last Updated: Thu Jun 15 10:56:30 2000

Reference Window: 2.00 Minutes
Non-Reference Window: 0.05 Minutes
Correlation Window: 0.10 minutes
Default Multiplier: 1.00
Default Sample Concentration: 0.00

Compound Information

1) Florida PRO ( )
Ret. Time 3.70 min., Extract & Integrate from 3.70 to 38.00 min.

Lvl	ID	Conc (ug/ml)	Response
-		850.000	45582976
-		2550.000	92969021
3		4250.000	155017121
4		5950.000	235503158
5		8500.000	319407422

Curve Fit: Avg. RF

) o-TERPHENYL (*)
t. Time 19.27 min., Extract & Integrate from 19.18 to 19.37 min.

l ID Conc (ug/ml) Response
50.000 2248076
50.000 2108043
50.000 2138596
50.000 2346692
50.000 2191967

rve Fit: Avg. RF

) C(39) ( )
t. Time 34.86 min., Extract & Integrate from 34.36 to 35.36 min.

l ID Conc (ug/ml) Response
150.000 5461802
150.000 5190121
150.000 5272546
150.000 5723033
150.000 5497332

rve Fit: Avg. RF

END OF DATA ANALYSIS PARAMETERS

Thu Jun 15 12:55:52 2000

DATA ANALYSIS PARAMETERS

ethod Name: C:\HPCHEM\2\METHODS\PRO0901.M

ercent Report Settings

ort By: Signal

utput Destination
Screen: No
Printer: Yes
File: No

ntegration Events: AutoIntegrate

enerate Report During Run Method: No

ignal Correlation Window: 0.020

uantitative Report Settings

eport Type: Summary

utput Destination
Screen: No
Printer: Yes
File: No

enerate Report During Run Method: Yes

LORIDA PRO BY GC; INST. #2
alibration Last Updated: Fri Sep 01 18:09:33 2000

eference Window: 2.00 Minutes
on-Reference Window: 0.05 Minutes
orrelation Window: 0.10 minutes
efault Multiplier: 1.00
efault Sample Concentration: 0.00

ompound Information

1)	Florida PRO	( )

et. Time 3.70 min., Extract & Integrate from 3.70 to 38.00 min.

l ID	Conc (ug/ml)	Response
	850.000	45582976
	2550.000	92969021
	4250.000	155017121
	5950.000	235503158
	8500.000	319407422

urve Fit: Avg. RF

---

2) o-TERPHENYL ( )
et. Time 19.21 min., Extract & Integrate from 19.11 to 19.31 min.

l ID	Conc (ug/ml)	Response
	50.000	2248076
	50.000	2108043
	50.000	2138596
	50.000	2346692
	50.000	2191967

urve Fit: Avg. RF

---

3) C(39) ( )
et. Time 34.74 min., Extract & Integrate from 34.24 to 35.24 min.

l ID	Conc (ug/ml)	Response
	300.000	13558497
	300.000	13831582
	300.000	14076608
	300.000	14130252
	300.000	14315780

urve Fit: Avg. RF

END OF DATA ANALYSIS PARAMETERS

Thu Sep 07 12:10:58 2000

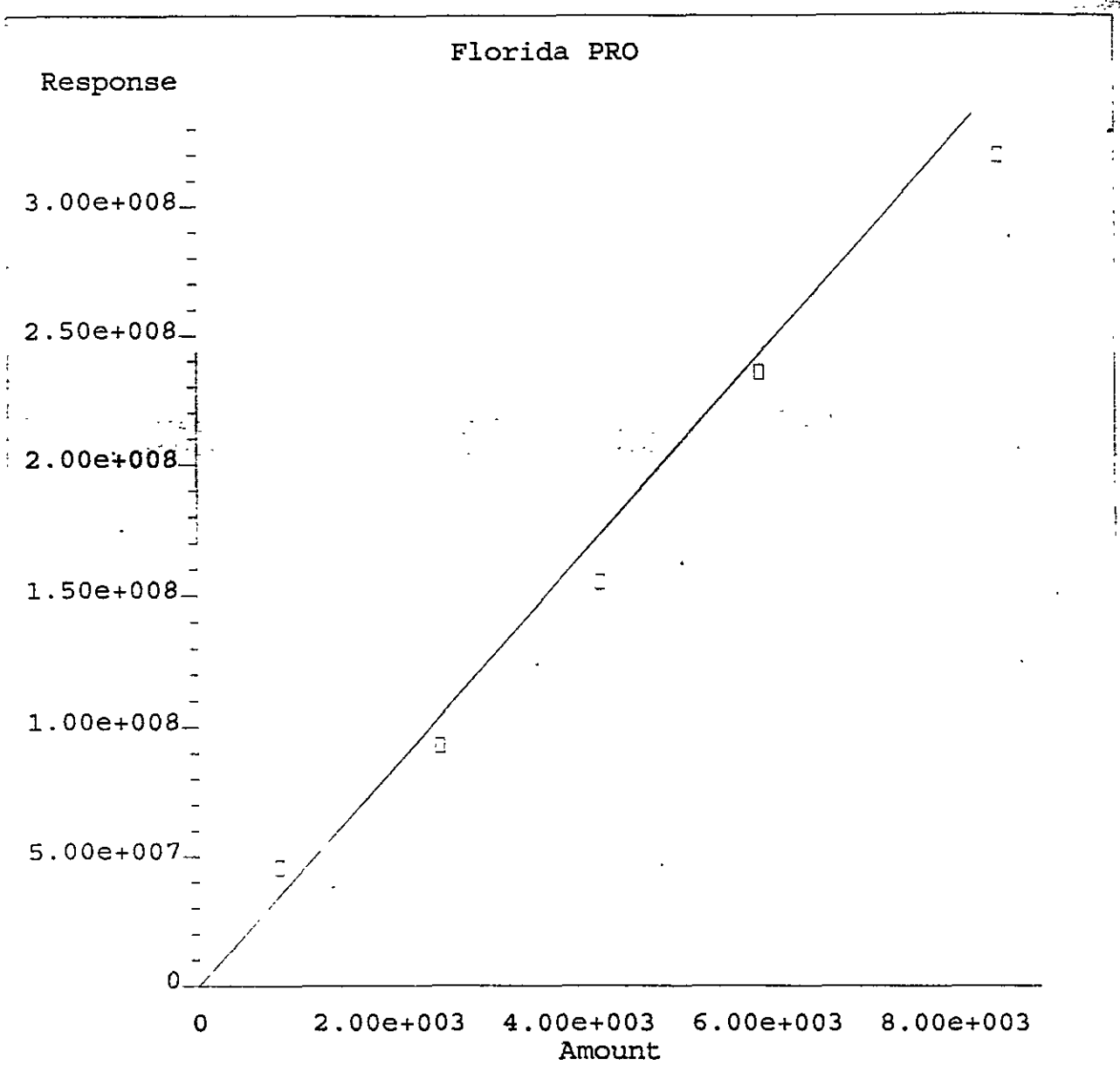
Response Factor Report NPD/FID

Method : C:\HPCHEM\2\METHODS\PRO0901.M (Chemstation Integrator)
Title : FLORIDA PRO BY GC; INST. #2
Last Update : Fri Sep 01 18:09:33 2000

Calibration Files
1 =06140002.D 2 =06140003.D 3 =06140004.D
4 =06140005.D 5 =06140006.D

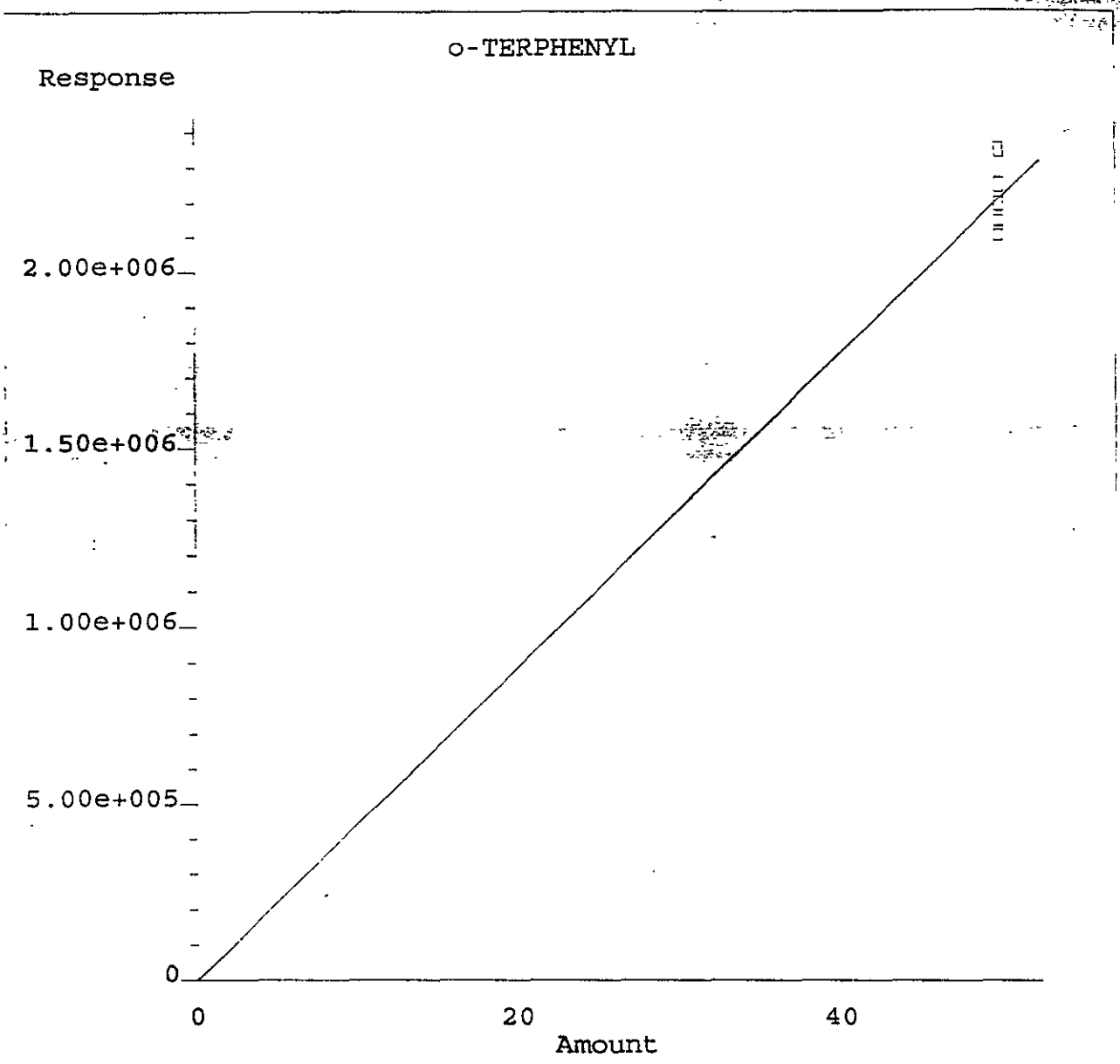
	Compound	1	2	3	4	5	Avg		%RSD
1) HM	Florida PRO	5.363	3.646	3.647	3.958	3.758	4.074	E4	17.95
2) SC	o-TERPHENYL	4.496	4.216	4.277	4.693	4.384	4.413	E4	4.29
3) SC	C(39)	4.519	4.611	4.692	4.710	4.772	4.661	E4	2.10

#) = Out of Range



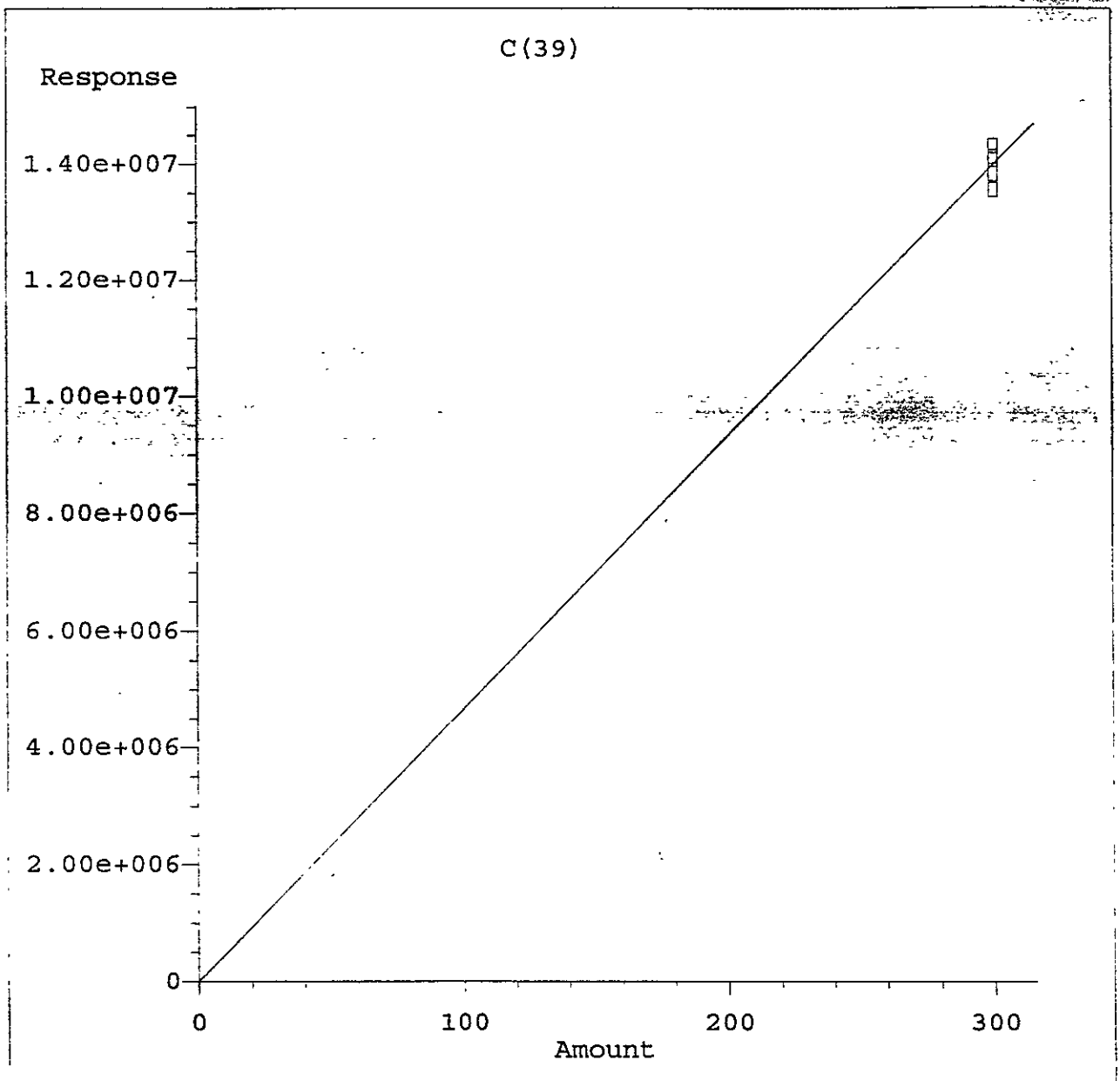
Response = 4.07e+004 * Amt
RF Rel Std Dev = 18.0% Curve Fit: Avg RF

Method Name: C:\HPCHEM\2\METHODS\PRO0614.M
Calibration Table Last Updated: Thu Jun 15 10:56:30 2000



Response = 4.41e+004 * Amt
RF Rel Std Dev = 4.3% Curve Fit: Avg RF

Method Name: C:\HPCHEM\2\METHODS\PRO0614.M
Calibration Table Last Updated: Thu Jun 15 10:56:30 2000



Response = 4.66e+004 * Amt
RF Rel Std Dev = 2.1% Curve Fit: Avg RF

Method Name: C:\HPCHEM\2\METHODS\PRO0901.M
Calibration Table Last Updated: Fri Sep 01 18:09:33 2000

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\061400\06140002.D Vial: 2
Acq On : 14 Jun 2000 6:35 pm Operator: MT
Sample : 850 PHS PRO ICAL Inst : NPD/FID
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Jun 16 14:09 2000 Quant Results File: PRO0614.RES

Quant Method : C:\HPCHEM\2\METHODS\PRO0614.M (Chemstation Integrator)
Title : FLORIDA PRO BY GC; INST. #2
Last Update : Thu Jun 15 10:56:30 2000
Response via : Initial Calibration
DataAcq Meth : PRO0614.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) SC o-TERPHENYL	19.26	2258810	51.181 ug/mlm
Spiked Amount 50.000	Recovery = 102.36%		
3) SC C(39)	34.81	5457972	150.801 ug/mlm
Spiked Amount 150.000	Recovery = 100.53%		
Target Compounds			
1) HM Florida PRO	3.70	45288026	1111.538 ug/ml

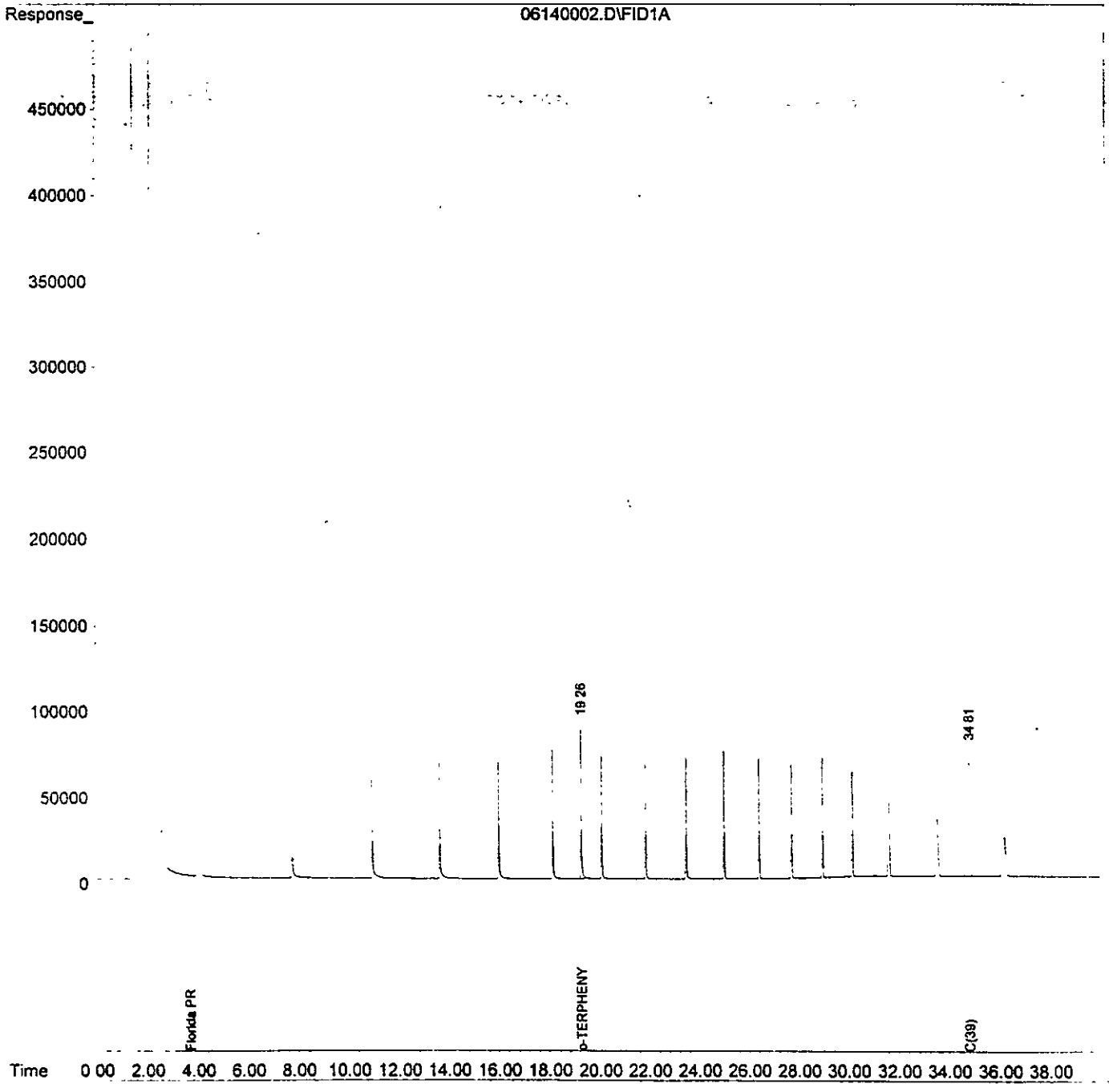
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\2\DATA\061400\06140002.D Vial: 2
Acq On : 14 Jun 2000 6:35 pm Operator: MT
Sample : 850 PHS PRO ICAL Inst : NPD/FID
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Jun 16 14:09 2000 Quant Results File: PRO0614.RES

Quant Method : C:\HPCHEM\2\METHODS\PRO0614.M (Chemstation Integrator)
Title : FLORIDA PRO BY GC; INST. #2
Last Update : Thu Jun 15 10:56:30 2000
Response via : Multiple Level Calibration
DataAcq Meth : PRO0614.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\061400\06140003.D Vial: 8
Acq On : 14 Jun 2000 7:24 pm Operator: MT
Sample : 2550 PHS PRO ICAL Inst : NPD/FID
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Jun 16 14:09 2000 Quant Results File: PRO0614.RES

Quant Method : C:\HPCHEM\2\METHODS\PRO0614.M (Chemstation Integrator)
Title : FLORIDA PRO BY GC; INST. #2
Last Update : Thu Jun 15 10:56:30 2000
Response via : Initial Calibration
DataAcq Meth : PRO0614.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) SC o-TERPHENYL	19.26	2142379	48.543 ug/mlm
Spiked Amount 50.000	Recovery = 97.09%		
3) SC C(39)	34.82	5187797	143.337 ug/mlm
Spiked Amount 150.000	Recovery = 95.56%		
Target Compounds			
1) HM Florida PRO	3.70	92930103	2280.854 ug/ml

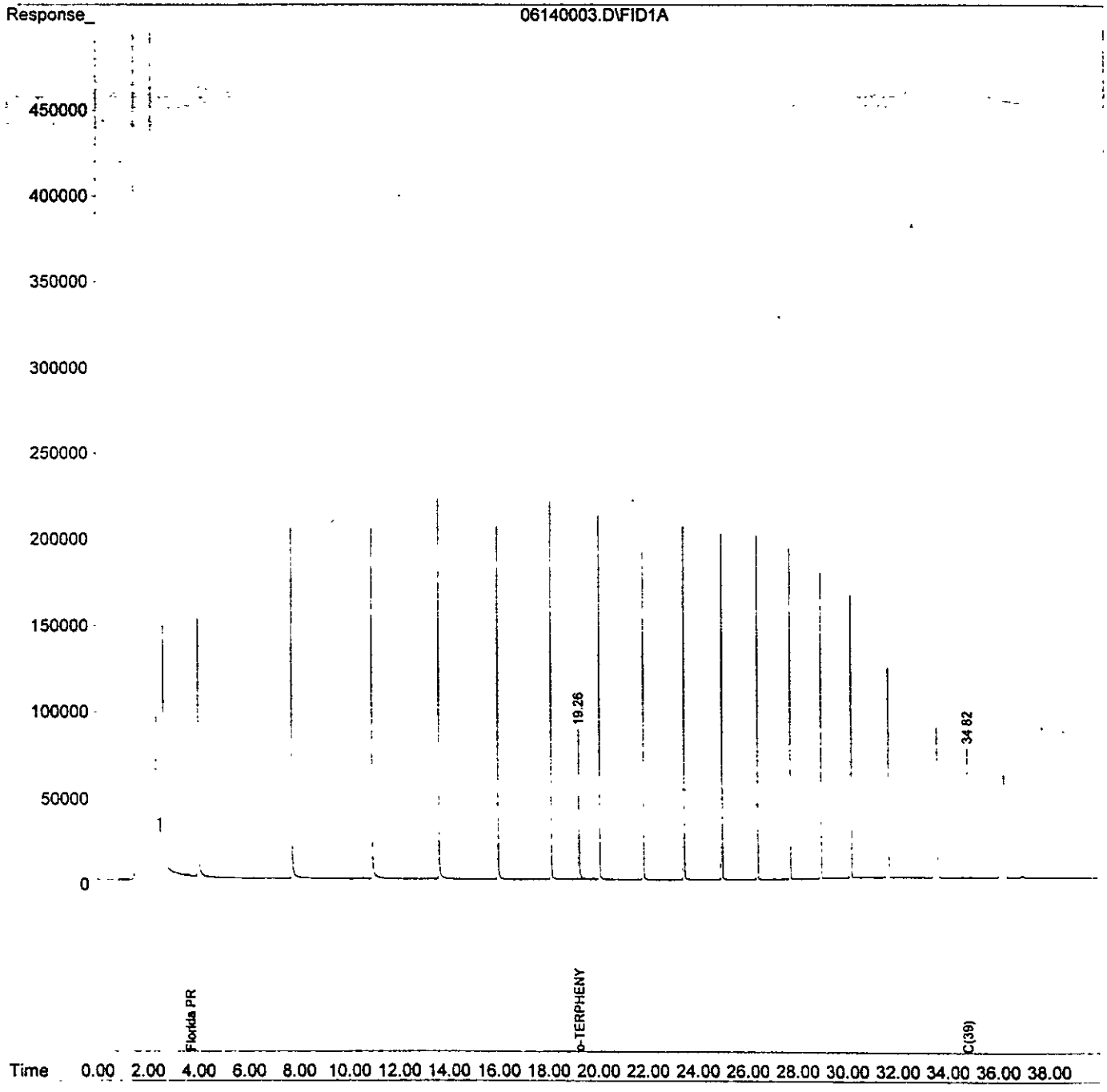
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\2\DATA\061400\06140003.D Vial: 3
Acq On : 14 Jun 2000 7:24 pm Operator: MT
Sample : 2550 PHS PRO ICAL Inst : NPD/FID
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Jun 16 14:09 2000 Quant Results File: PRO0614.RES

Quant Method : C:\HPCHEM\2\METHODS\PRO0614.M (Chemstation Integrator)
Title : FLORIDA PRO BY GC; INST. #2
Last Update : Thu Jun 15 10:56:30 2000
Response via : Multiple Level Calibration
DataAcq Meth : PRO0614.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\061400\06140004.D Vial: 4
Acq On : 14 Jun 2000 8:13 pm Operator: MT
Sample : 4250 PHS PRO ICAL Inst : NPD/FID
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Jun 16 14:10 2000 Quant Results File: PRO0614.RES

Quant Method : C:\HPCHEM\2\METHODS\PRO0614.M (Chemstation Integrator)
Title : FLORIDA PRO BY GC; INST. #2
Last Update : Thu Jun 15 10:56:30 2000
Response via : Initial Calibration
DataAcq Meth : PRO0614.M

Volume Inj. :
Signal Phase :
Signal Info :

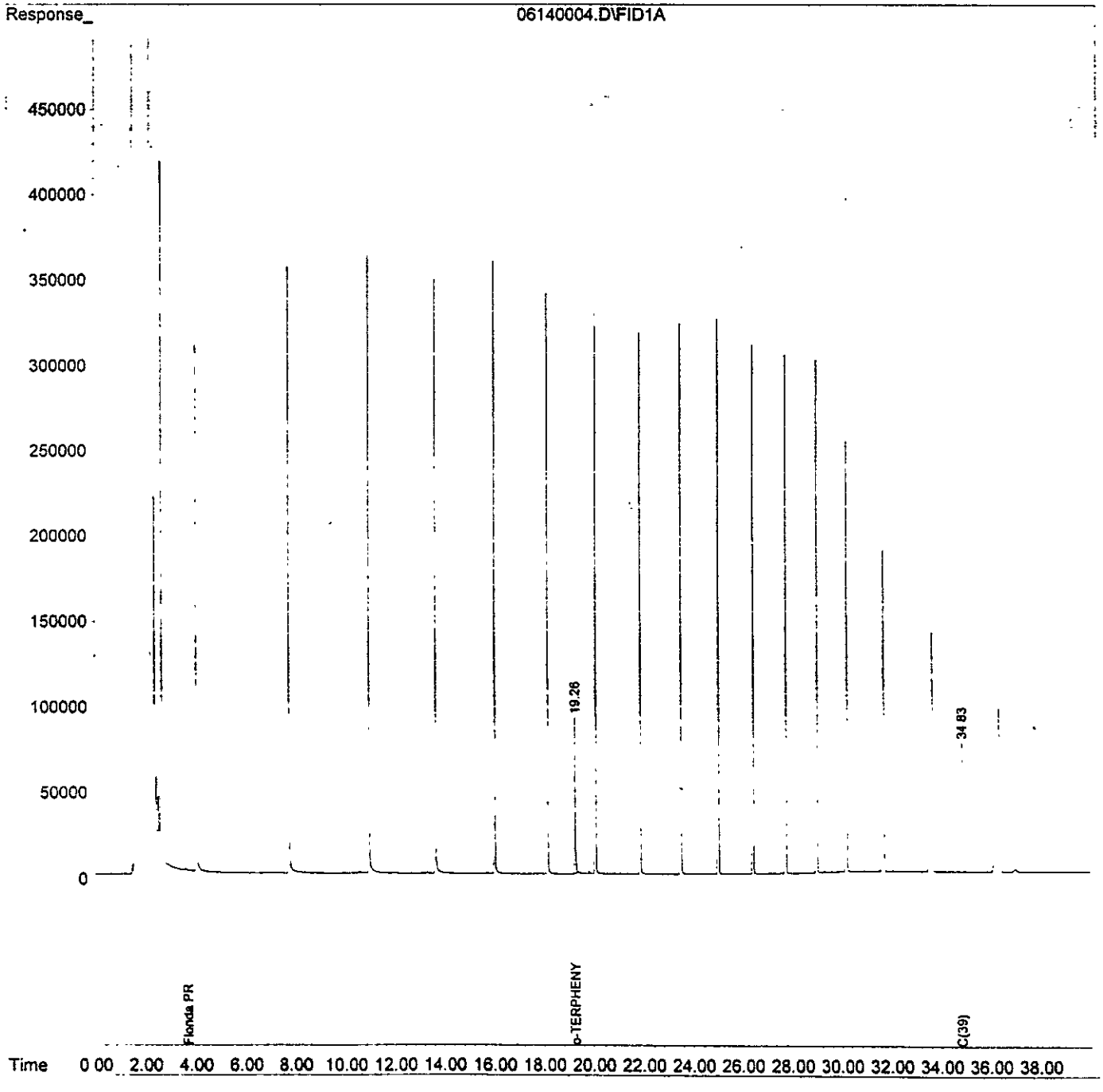
Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) SC o-TERPHENYL	19.26	2119551	48.026 ug/mlm
Spiked Amount 50.000	Recovery = 96.05%		
3) SC C(39)	34.83	5273714	145.710 ug/mlm
Spiked Amount 150.000	Recovery = 97.14%		
Target Compounds			
1) HM Florida PRO	3.70	155028094	3804.972 ug/ml

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

Data File : C:\HPCHEM\2\DATA\061400\06140004.D Vial: 4
Acq On : 14 Jun 2000 8:13 pm Operator: MT
Sample : 4250 PHS PRO ICAL Inst : NPD/FID
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Jun 16 14:10 2000 Quant Results File: PRO0614.RES

Quant Method : C:\HPCHEM\2\METHODS\PRO0614.M (Chemstation Integrator)
Title : FLORIDA PRO BY GC; INST. #2
Last Update : Thu Jun 15 10:56:30 2000
Response via : Multiple Level Calibration
DataAcq Meth : PRO0614.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\061400\06140005.D Vial: 5
Acq On : 14 Jun 2000 9:02 pm Operator: MT
Sample : 5950 PHS PRO ICAL Inst : NPD/FID
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Jun 16 14:10 2000 Quant Results File: PRO0614.RES

Quant Method : C:\HPCHEM\2\METHODS\PRO0614.M (Chemstation Integrator)
Title : FLORIDA PRO BY GC; INST. #2
Last Update : Thu Jun 15 10:56:30 2000
Response via : Initial Calibration
DataAcq Meth : PRO0614.M

Volume Inj. :
Signal Phase :
Signal Info :

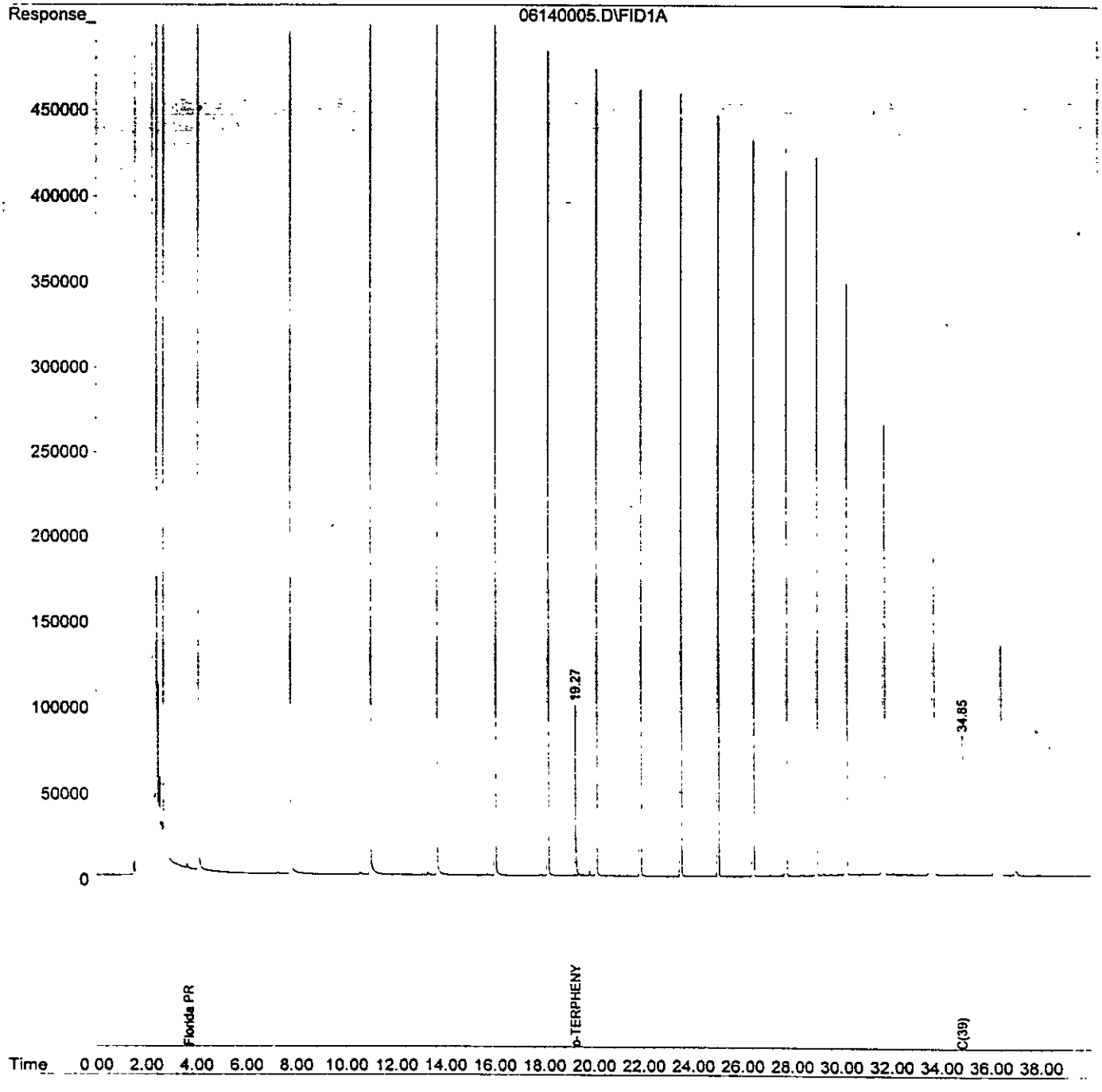
Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) SC o-TERPHENYL	19.27	2348089	53.204 ug/mlm
Spiked Amount 50.000	Recovery = 106.41%		
3) SC C(39)	34.85	5720078	158.043 ug/mlm
Spiked Amount 150.000	Recovery = 105.36%		
Target Compounds			
1) HM Florida PRO	3.70	235581043	5782.044 ug/ml

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

Data File : C:\HPCHEM\2\DATA\061400\06140005.D Vial: 5
Acq On : 14 Jun 2000 9:02 pm Operator: MT
Sample : 5950 PHS PRO ICAL Inst : NPD/EID
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Jun 16 14:10 2000 Quant Results File: PRO0614.RES

Quant Method : C:\HPCHEM\2\METHODS\PRO0614.M (Chemstation Integrator)
Title : FLORIDA PRO BY GC; INST. #2
Last Update : Thu Jun 15 10:56:30 2000
Response via : Multiple Level Calibration
DataAcq Meth : PRO0614.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\061400\06140006.D Vial: 6
Acq On : 14 Jun 2000 9:51 pm Operator: MT
Sample : 8500 PHS PRO ICAL Inst : NPD/FID
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Jun 16 14:11 2000 Quant Results File: PRO0614.RES

Quant Method : C:\HPCHEM\2\METHODS\PRO0614.M (Chemstation Integrator)
Title : FLORIDA PRO BY GC; INST. #2
Last Update : Thu Jun 15 10:56:30 2000
Response via : Initial Calibration
DataAcq Meth : PRO0614.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) SC o-TERPHENYL	19.27	2147633	48.662 ug/mlm
Spiked Amount 50.000	Recovery =		97.32%
3) SC C(39)	34.86	5495378	151.835 ug/mlm
Spiked Amount 150.000	Recovery =		101.22%
Target Compounds			
1) HM Florida PRO	3.70	311695676	7650.183 ug/ml

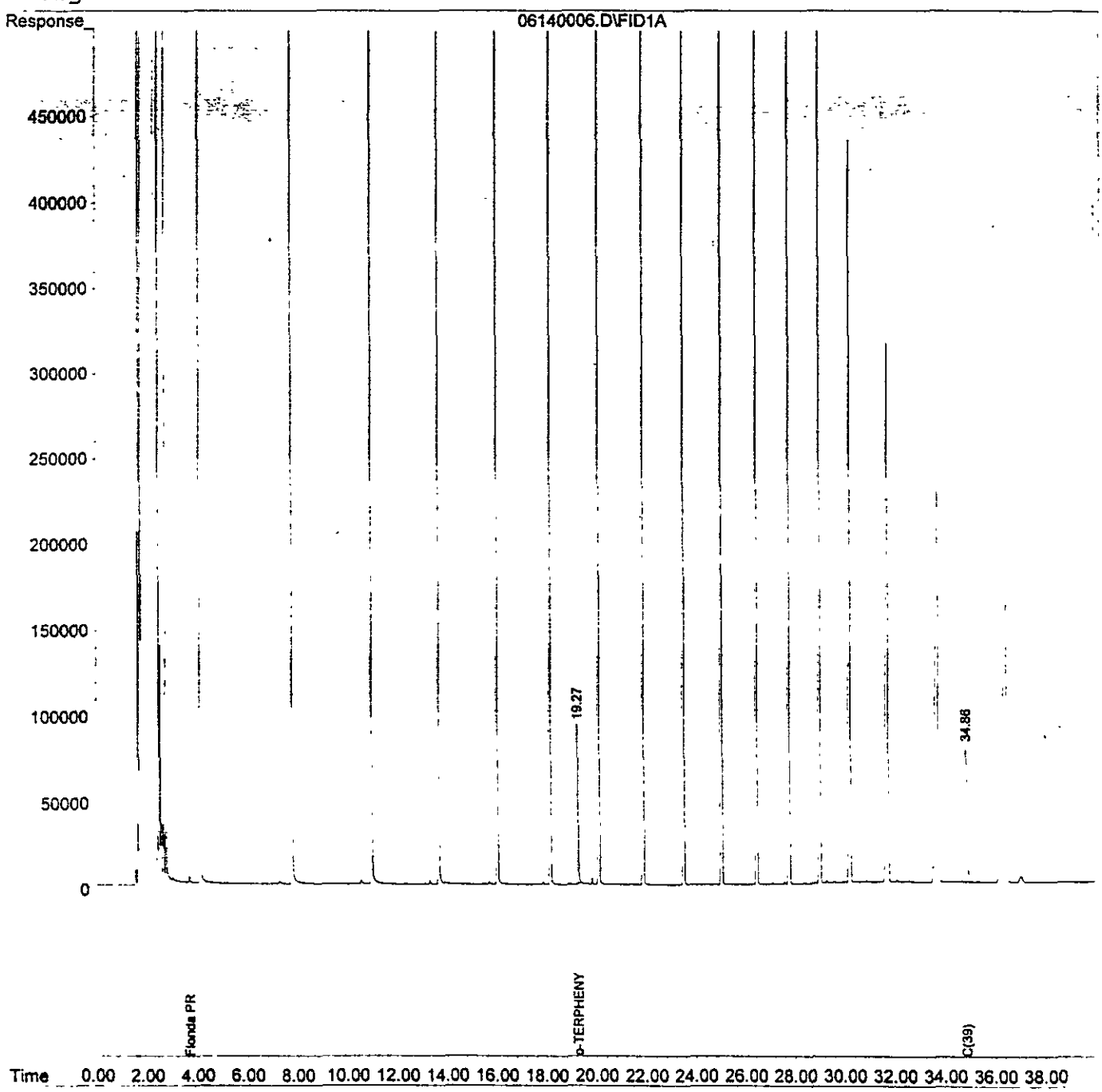
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\2\DATA\061400\06140006.D Vial: 6
Acq On : 14 Jun 2000 9:51 pm Operator: MT
Sample : 8500 PHS PRO ICAL Inst : NPD/FID
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Jun 16 14:11 2000 Quant Results File: PRO0614.RES

Quant Method : C:\HPCHEM\2\METHODS\PRO0614.M (Chemstation Integrator)
Title : FLORIDA PRO BY GC; INST. #2
Last Update : Thu Jun 15 10:56:30 2000
Response via : Multiple Level Calibration
DataAcq Meth : PRO0614.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\090100\09010002.D Vial: 2
Acq On : 1 Sep 2000 12:22 pm Operator:
Sample : C (39) 300 PPM Inst : NPD/FID
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Sep 1 13:51 2000 Quant Results File: PRO0614.RES

Quant Method : C:\HPCHEM\2\METHODS\PRO0614.M (Chemstation Integrator)
Title : FLORIDA PRO BY GC; INST. #2
Last Update : Mon Jul 17 13:42:58 2000
Response via : Initial Calibration
DataAcq Meth : PRO0614.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) SC o-TERPHENYL	0.00	0	N.D. ug/ml
Spiked Amount 50.000	Recovery	=	0.00%
3) SC C(39)	34.70	13558497	374.615 ug/mlm
Spiked Amount 150.000	Recovery	=	249.74%
Target Compounds			
1) HM Florida PRO	3.70	25281198	620.496 ug/ml

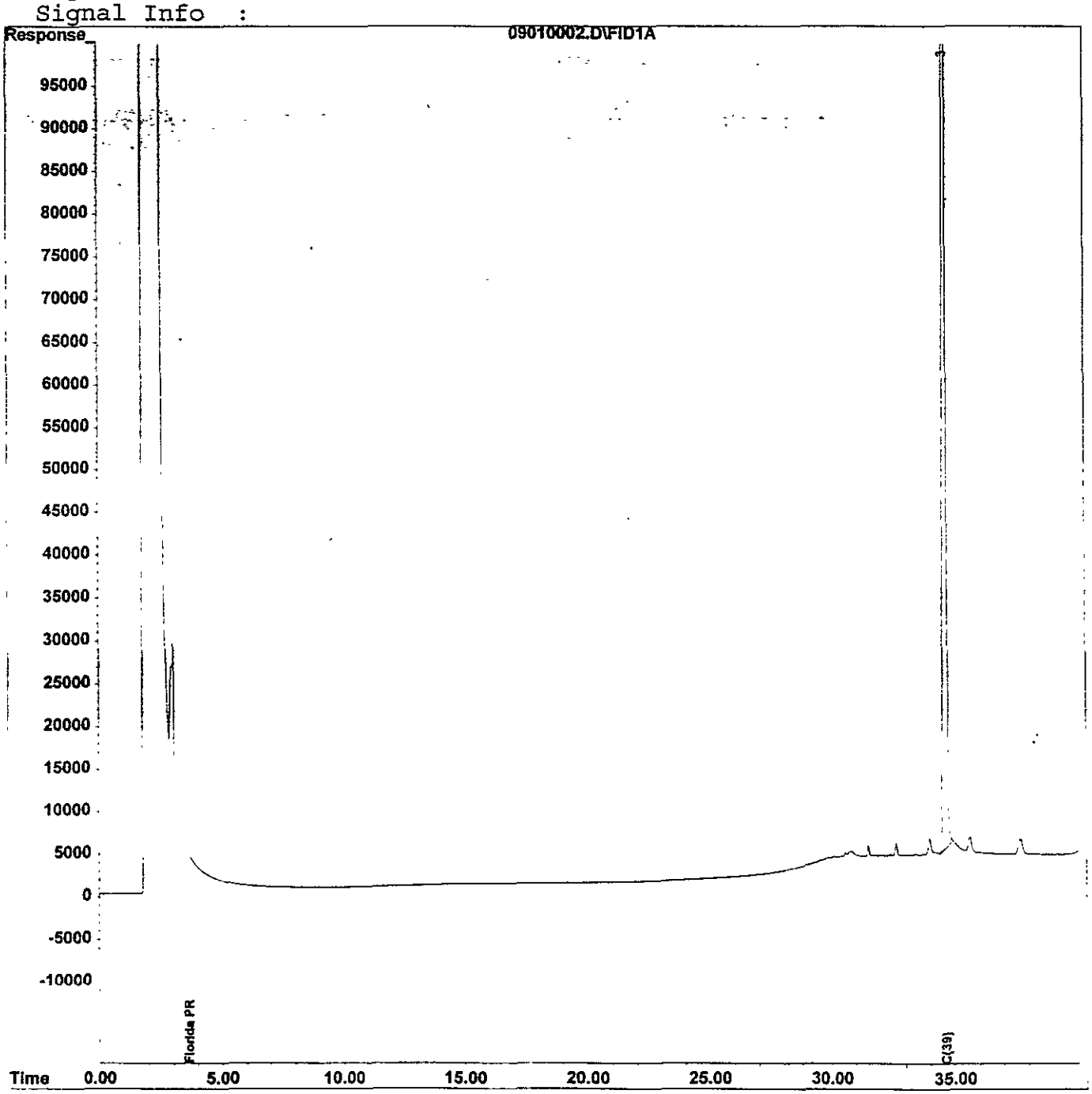
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\2\DATA\090100\09010002.D Vial: 2
Acq On : 1 Sep 2000 12:22 pm Operator:
Sample : C (39) 300 PPM Inst : NPD/FID
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Sep 1 13:51 2000 Quant Results File: PRO0614.RES

Quant Method : C:\HPCHEM\2\METHODS\PRO0614.M (Chemstation Integrator)
Title : FLORIDA PRO BY GC; INST. #2
Last Update : Mon Jul 17 13:42:58 2000
Response via : Multiple Level Calibration
DataAcq Meth : PRO0614.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\090100\09010003.D Vial: 2
Acq On : 1 Sep 2000 1:11 pm Operator:
Sample : C (39) 300 PPM Inst : NPD/FID
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Sep 1 13:52 2000 Quant Results File: PRO0614.RES

Quant Method : C:\HPCHEM\2\METHODS\PRO0614.M (Chemstation Integrator)
Title : FLORIDA PRO BY GC; INST. #2
Last Update : Mon Jul 17 13:42:58 2000
Response via : Initial Calibration
DataAcq Meth : PRO0614.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) SC o-TERPHENYL	0.00	0	N.D. ug/ml
Spiked Amount 50.000	Recovery = 0.00%		
3) SC C(39)	34.71	13831582	382.161 ug/mlm
Spiked Amount 150.000	Recovery = 254.77%		
Target Compounds			
1) HM Florida PRO	3.70	25673253	630.118 ug/ml

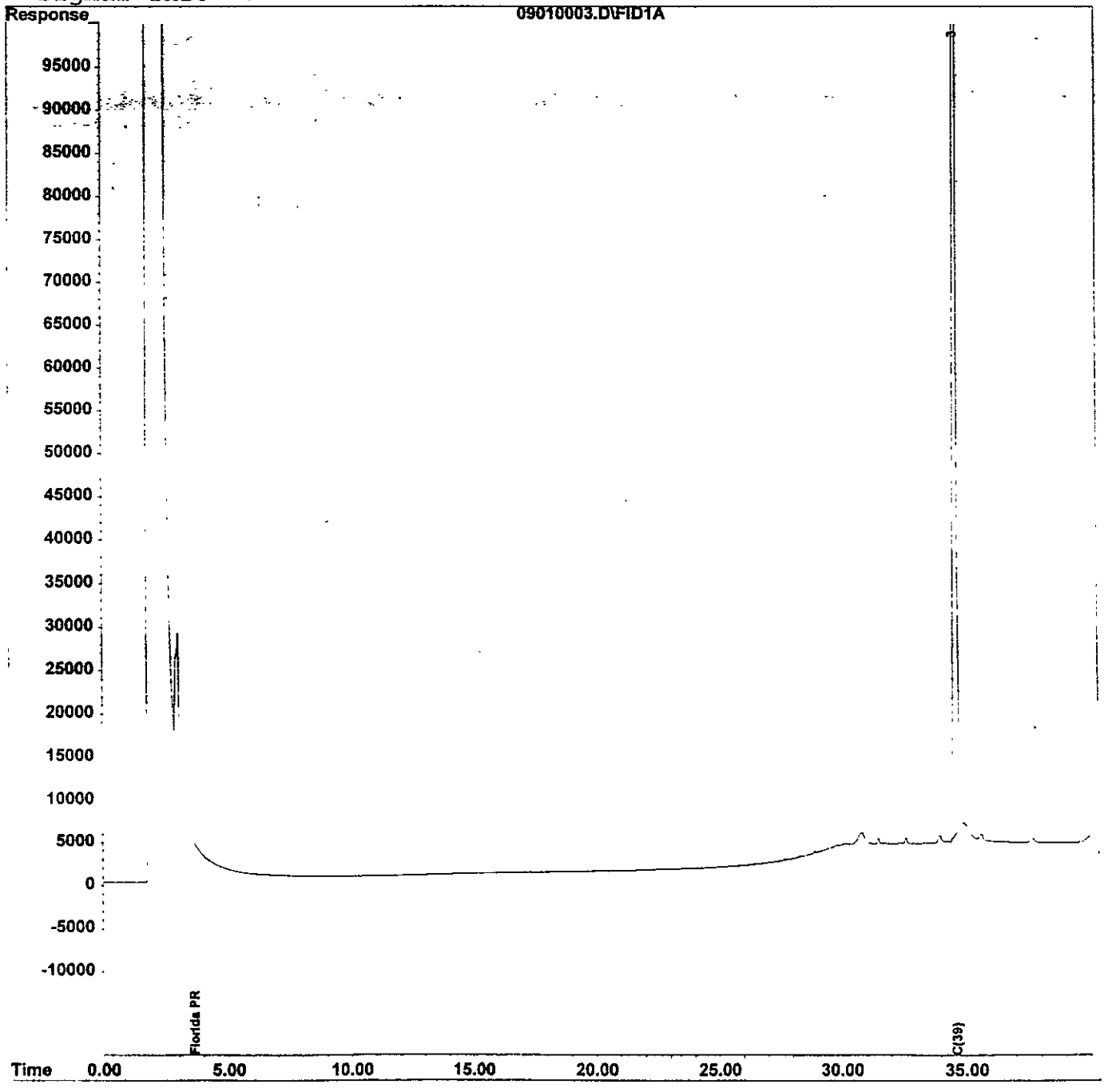
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\2\DATA\090100\09010003.D Vial: 2
Acq On : 1 Sep 2000 1:11 pm Operator:
Sample : C (39) 300 PPM Inst : NPD/FID
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Sep 1 13:52 2000 Quant Results File: PRO0614.RES

Quant Method : C:\HPCHEM\2\METHODS\PRO0614.M (Chemstation Integrator)
Title : FLORIDA PRO BY GC; INST. #2
Last Update : Mon Jul 17 13:42:58 2000
Response via : Multiple Level Calibration
DataAcq Meth : PRO0614.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\090100\09010004.D Vial: 2
Acq On : 1 Sep 2000 2:00 pm Operator:
Sample : C (39) 300 PPM Inst : NPD/FID
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Sep 1 16:33 2000 Quant Results File: PRO0614.RES

Quant Method : C:\HPCHEM\2\METHODS\PRO0614.M (Chemstation Integrator)
Title : FLORIDA PRO BY GC; INST. #2
Last Update : Mon Jul 17 13:42:58 2000
Response via : Initial Calibration
DataAcq Meth : PRO0614.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) SC o-TERPHENYL	0.00	0	N.D. ug/ml
Spiked Amount 50.000	Recovery =	0.00%	
3) SC C(39)	34.70	14076608	388.931 ug/mlm
Spiked Amount 150.000	Recovery =	259.29%	
Target Compounds			
1) HM Florida PRO	3.70	25350063	622.186 ug/ml

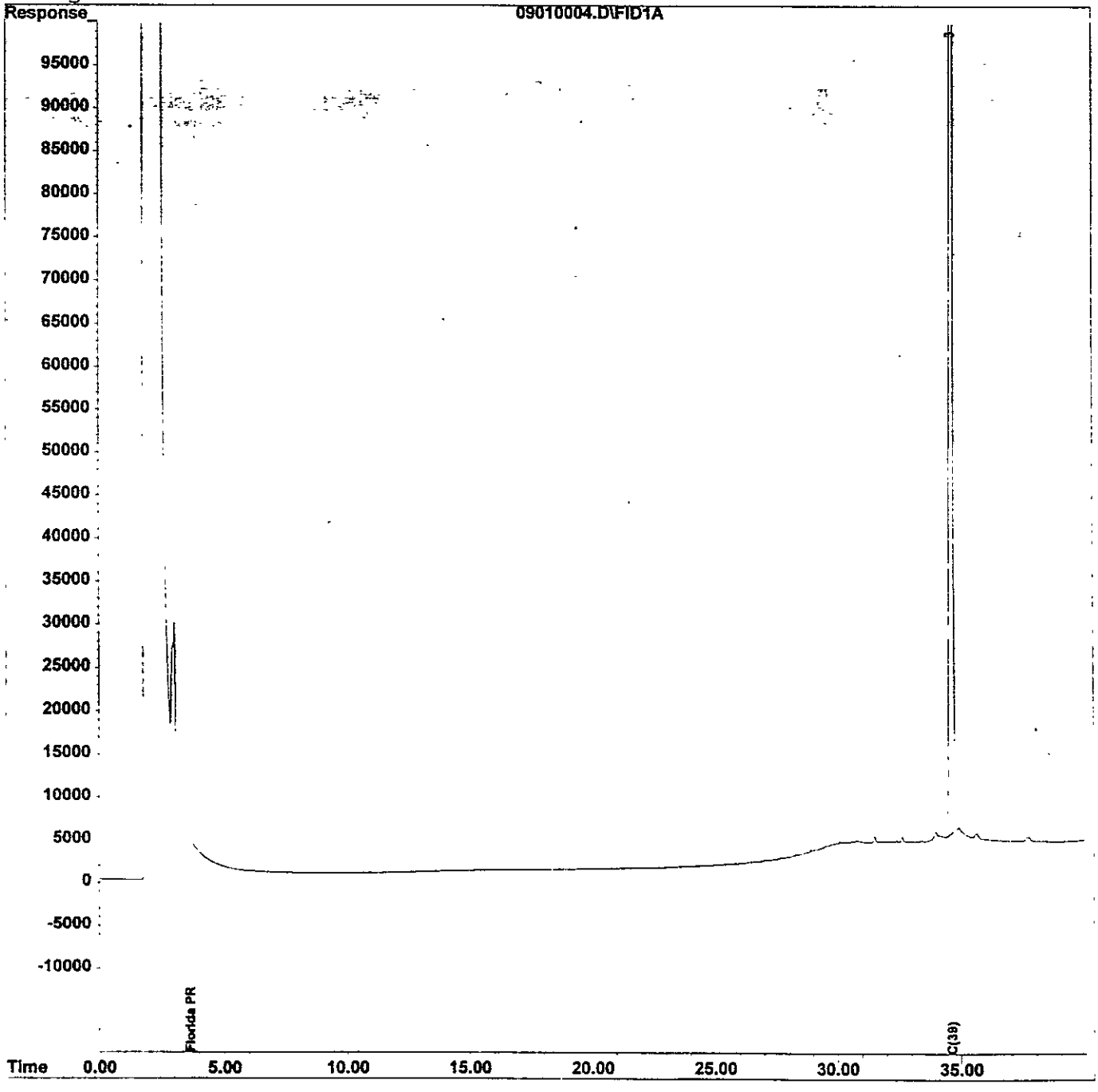
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\2\DATA\090100\09010004.D Vial: 2
Acq On : 1 Sep 2000 2:00 pm Operator:
Sample : C (39) 300 PPM Inst : NPD/FID
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Sep 1 16:33 2000 Quant Results File: PRO0614.RES

Quant Method : C:\HPCHEM\2\METHODS\PRO0614.M (Chemstation Integrator)
Title : FLORIDA PRO BY GC; INST. #2
Last Update : Mon Jul 17 13:42:58 2000
Response via : Multiple Level Calibration
DataAcq Meth : PRO0614.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\090100\09010005.D Vial: 2
Acq On : 1 Sep 2000 2:49 pm Operator:
Sample : C (39) 300 PPM Inst : NPD/FID
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Sep 1 16:34 2000 Quant Results File: PRO0614.RES

Quant Method : C:\HPCHEM\2\METHODS\PRO0614.M (Chemstation Integrator)
Title : FLORIDA PRO BY GC; INST. #2
Last Update : Mon Jul 17 13:42:58 2000
Response via : Initial Calibration
DataAcq Meth : PRO0614.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) SC o-TERPHENYL	0.00	0	N.D. ug/ml
Spiked Amount 50.000	Recovery =		0.00%
3) SC C(39)	34.70	14130252	390.413 ug/mlm
Spiked Amount 150.000	Recovery =		260.28%
Target Compounds			
1) HM Florida PRO	3.70	25477503	625.314 ug/ml

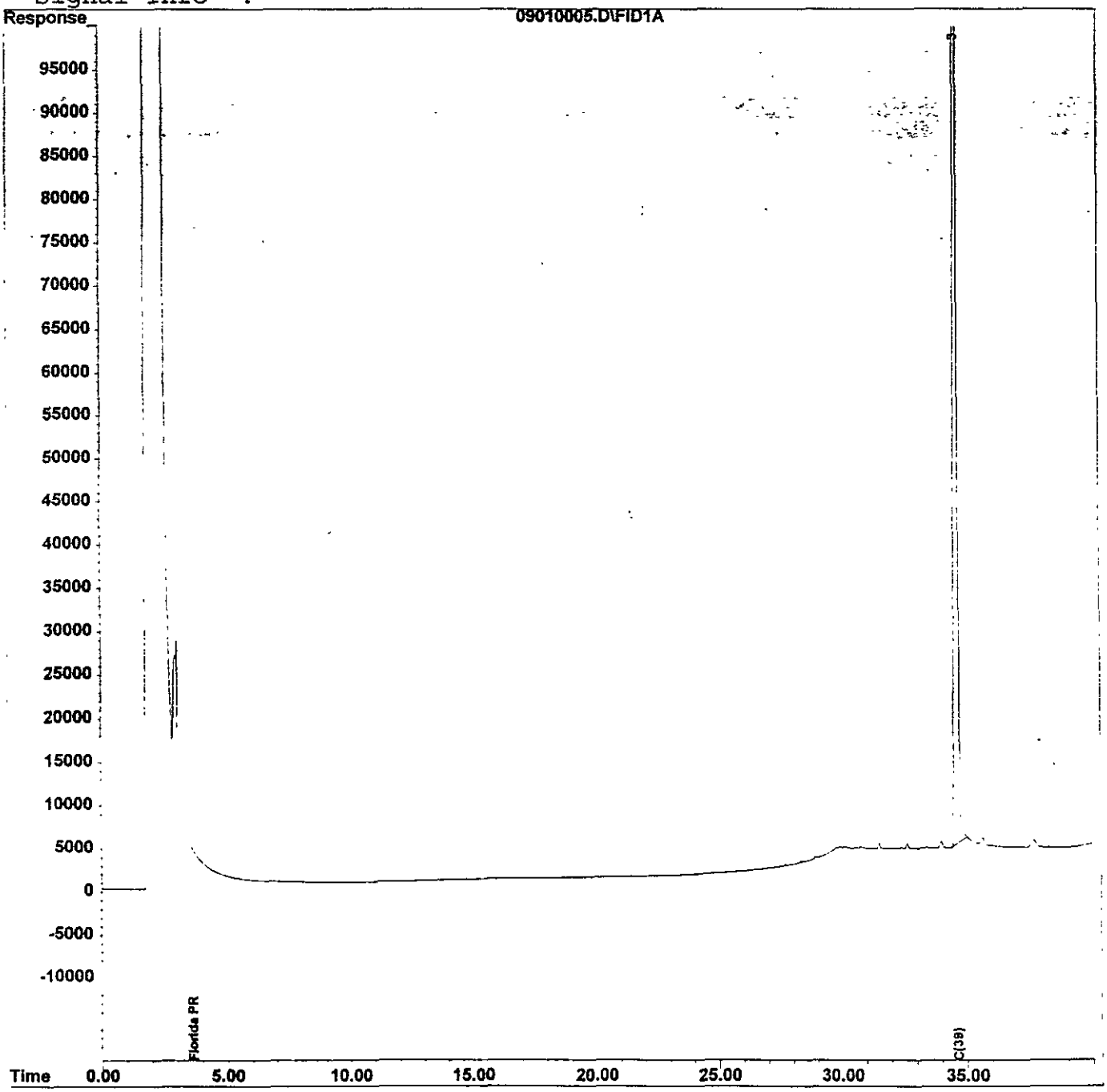
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\2\DATA\090100\09010005.D Vial: 2
Acq On : 1 Sep 2000 2:49 pm Operator:
Sample : C (39) 300 PPM Inst : NPD/FID
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Sep 1 16:34 2000 Quant Results File: PRO0614.RES

Quant Method : C:\HPCHEM\2\METHODS\PRO0614.M (Chemstation Integrator)
Title : FLORIDA PRO BY GC; INST. #2
Last Update : Mon Jul 17 13:42:58 2000
Response via : Multiple Level Calibration
DataAcq Meth : PRO0614.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\090100\09010006.D Vial: 2
Acq On : 1 Sep 2000 3:37 pm Operator:
Sample : C (39) 300 PPM Inst : NPD/FID
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Sep 1 16:34 2000 Quant Results File: PRO0614.RES

Quant Method : C:\HPCHEM\2\METHODS\PRO0614.M (Chemstation Integrator)
Title : FLORIDA PRO BY GC; INST. #2
Last Update : Mon Jul 17 13:42:58 2000
Response via : Initial Calibration
DataAcq Meth : PRO0614.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) SC o-TERPHENYL	0.00	0	N.D. ug/ml
Spiked Amount 50.000	Recovery	=	0.00%
3) SC C(39)	34.70	14315780	395.539 ug/mlm
Spiked Amount 150.000	Recovery	=	263.69%
Target Compounds			
1) HM Florida PRO	3.70	25479049	625.352 ug/ml

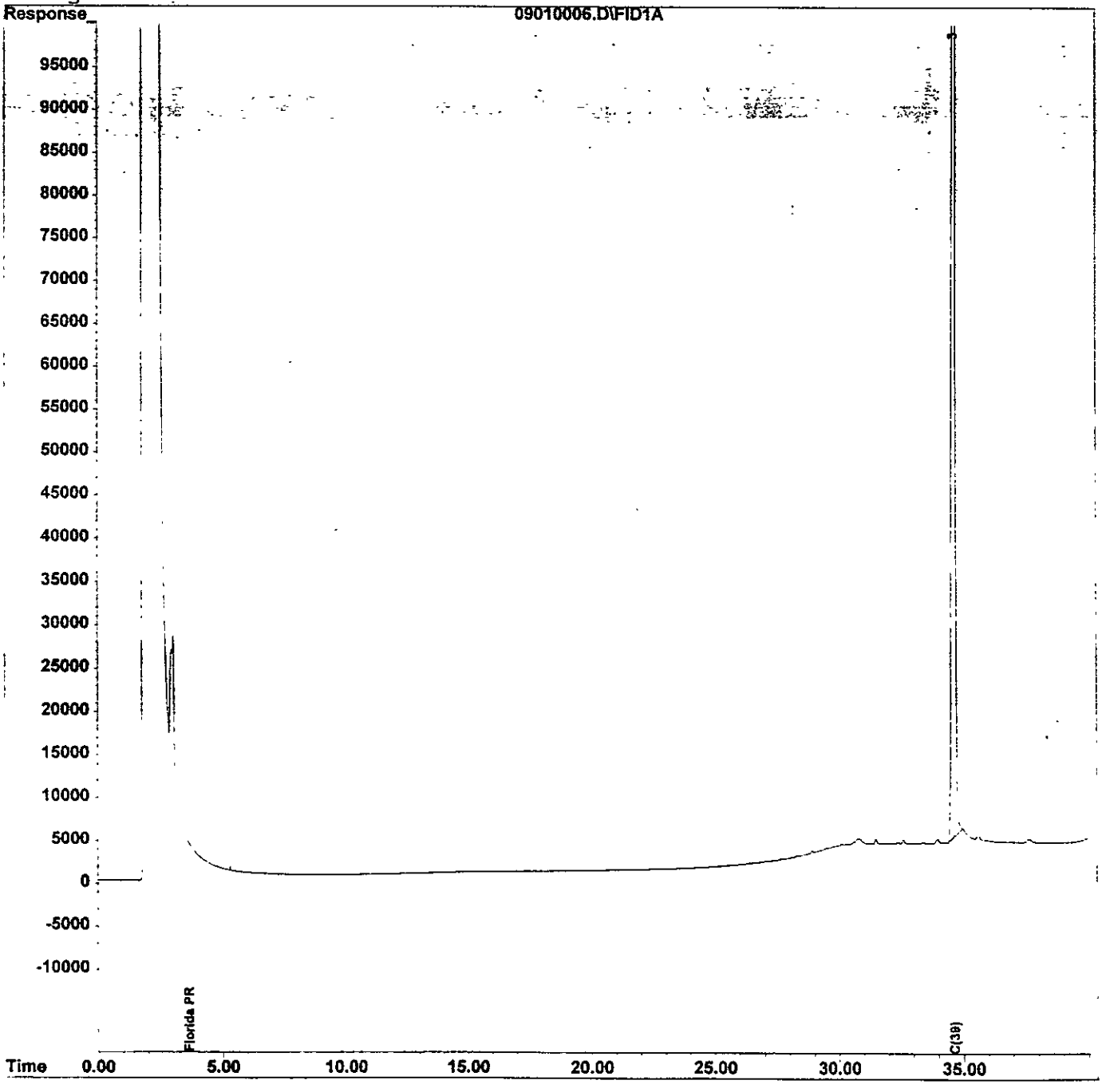
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\2\DATA\090100\09010006.D Vial: 2
Acq On : 1 Sep 2000 3:37 pm Operator:
Sample : C (39) 300 PPM Inst : NPD/FID
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Sep 1 16:34 2000 Quant Results File: PRO0614.RES

Quant Method : C:\HPCHEM\2\METHODS\PRO0614.M (Chemstation Integrator)
Title : FLORIDA PRO BY GC; INST. #2
Last Update : Mon Jul 17 13:42:58 2000
Response via : Multiple Level Calibration
DataAcq Meth : PRO0614.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\061400\06140008.D Vial: 7
Acq On : 15 Jun 2000 11:46 am Operator: MT
Sample : 4250 PHS PRO ICV Inst : NPD/FID
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Jun 15 12:44 2000 Quant Results File: PRO0614.RES

Quant Method : C:\HPCHEM\2\METHODS\PRO0614.M (Chemstation Integrator)
Title : ETHYLENE GLYCOL IN H2O
Last Update : Thu Jun 15 10:56:30 2000
Response via : Initial Calibration
DataAcq Meth : PRO0614.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) SC o-TERPHENYL	19.31	2583690	58.543 ug/mlm
Spiked Amount 50.000		Recovery =	117.09% ✓MT
3) SC C(39)	34.89	6518976	180.116 ug/mlm
Spiked Amount 150.000		Recovery =	120.08% ✓MT
Target Compounds			
1) HM Florida PRO	3.70	191143727	4691.385 ug/ml

(110%) ✓
MT

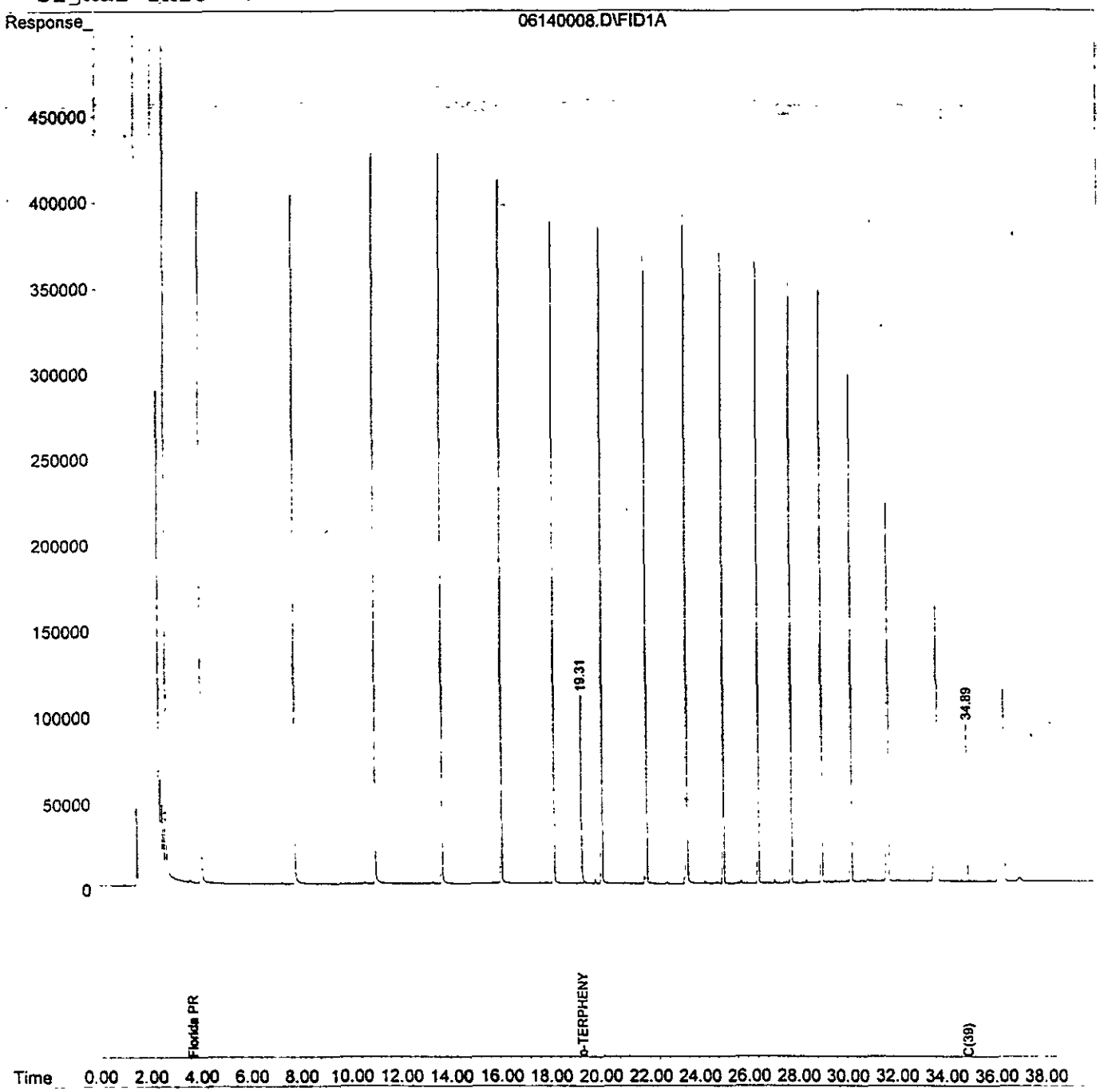
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\2\DATA\061400\06140008.D Vial: 7
Acq On : 15 Jun 2000 11:46 am Operator: MT
Sample : 4250 PHS PRO ICV Inst : NPD/FID
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Jun 15 12:44 2000 Quant Results File: PRO0614.RES

Quant Method : C:\HPCHEM\2\METHODS\PRO0614.M (Chemstation Integrator)
Title : ETHYLENE GLYCOL IN H2O
Last Update : Thu Jun 15 10:56:30 2000
Response via : Multiple Level Calibration
DataAcq Meth : PRO0614.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\090600\09060002.D Vial: 2
Acq On : 6 Sep 2000 2:58 pm Operator:
Sample : 4250 PHS PRO CCV Inst : NPB/FID
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Sep 6 16:21 2000 Quant Results File: PRO0901.RES

Quant Method : C:\HPCHEM\2\METHODS\PRO0901.M (Chemstation Integrator)
Title : FLORIDA PRO BY GC; INST. #2
Last Update : Fri Sep 01 18:09:33 2000
Response via : Initial Calibration
DataAcq Meth : PRO0901.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) SC o-TERPHENYL	19.20	2573134	58.303 ug/mlm
Spiked Amount 50.000	Recovery =		116.61% ✓MT
3) SC C(39)	34.79	11386071	244.292 ug/mlm
Spiked Amount 300.000	Recovery =		81.43% ✓MT
Target Compounds			
1) HM Florida PRO	3.70	210862125	5175.349 ug/ml

122% ✓
MT

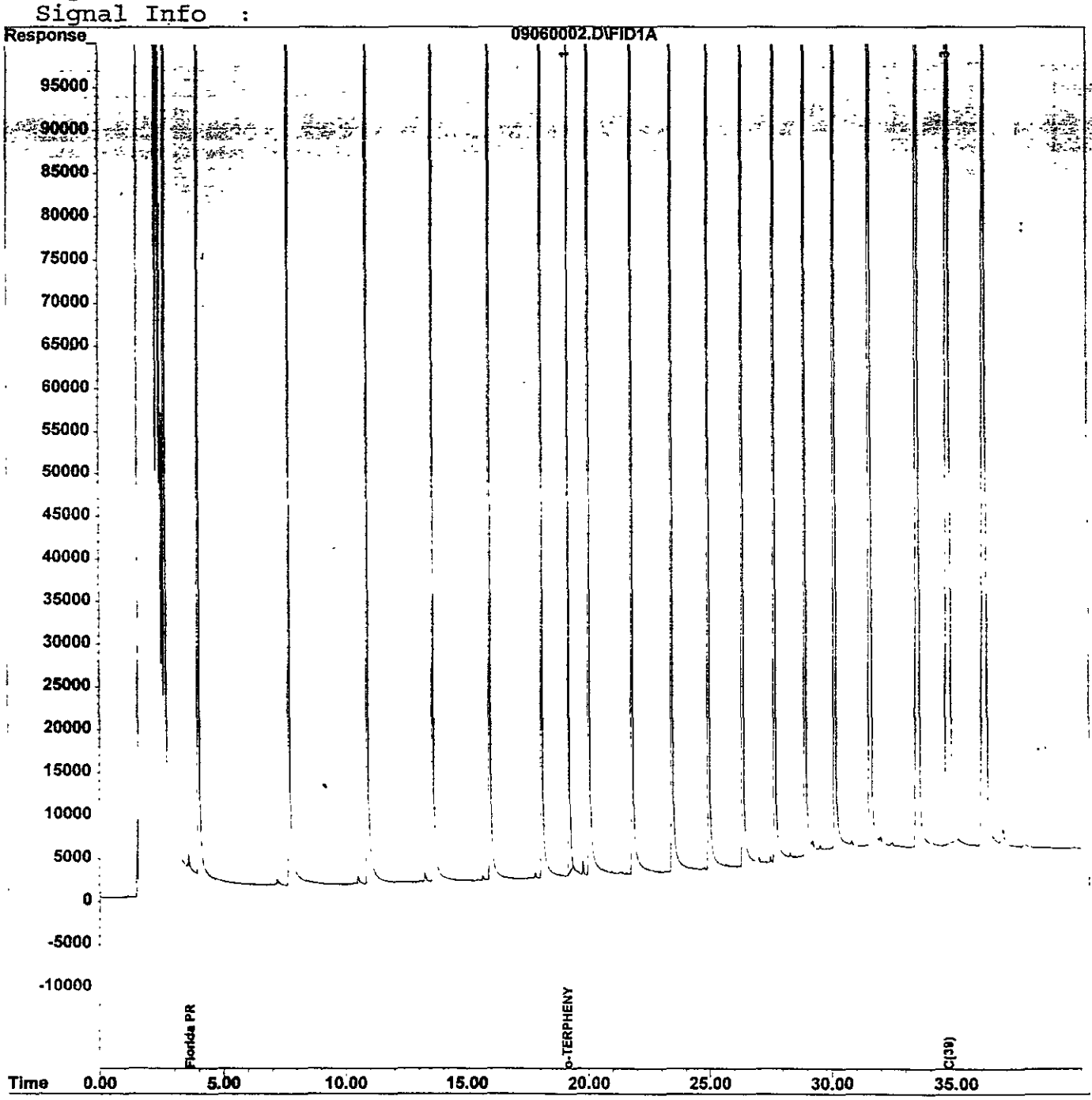
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\2\DATA\090600\09060002.D Vial: 2
Acq On : 6 Sep 2000 2:58 pm Operator :
Sample : 4250 PHS PRO CCV Inst : NPD/FID
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Sep 6 16:21 2000 Quant Results File: PRO0901.RES

Quant Method : C:\HPCHEM\2\METHODS\PRO0901.M (Chemstation Integrator)
Title : FLORIDA PRO BY GC; INST. #2
Last Update : Fri Sep 01 18:09:33 2000
Response via : Multiple Level Calibration
DataAcq Meth : PRO0901.M

Volume Inj. :
Signal Phase :
Signal Info :



ACCURA ANALYTICAL LABORATORY, INC.

Environmental Analytical Services

Metals Checklist

Project #: 25724 **Instrument Used:** Trace ICAP/ICAP/GFAA/FIMS Hg

Reviewer Questions

1. Is the ICV within ± 10% for 6010B, or 5% for 200.7? ✓
2. For Hg and GFAA, is the curve acceptable, (>0.995 correlation coefficient)? NA
3. Verified the correct dates and times are entered. ✓
4. Verified the sample results reported with the proper significant figures in the logbook and in the LIMS. ✓
5. Verified all dilution factors are taken into account for the calculation. ✓
6. Verified the RDL is correct according to dilutions and reported with the correct significant figures. ✓

Analyst Questions

7. Is the Blank <1/2 RDL? yes If not, has the RDL been raised or the samples reanalyzed? _____
8. Are the LCS/LCSD within limits? yes If not, why, or are the samples being reanalyzed? _____
9. Duplicate AAL sample number 00424
   Is the RPD acceptable? yes If not, what is the reason? _____
10. MS/MSD AAL sample number 00424
    Are the recoveries acceptable? yes If not, what is the reason? _____
11. Sample numbers requiring dilution? _____
    Reason for dilution. _____
12. Are all special requirements on project sheet completed? — If unable to complete, has the project manager been notified? _____
13. Any additional comments. _____

Analyst entering results in Labworks. MA Date: 10/16/00

Peer Reviewer: RL Date: 10/17/00

Peer review is responsible for reviewing all above questions.

ACCURA ANALYTICAL LABORATORY, INC.

Environmental Analytical Services

Metals Digestion Log for Waters

Date: 10-06-00
Analyst: RC
Time Started: 09:55
Time Ended: 14:50
Matrix: Water

BATCH #: 100600A
HNO_3 Acid Lot #: M.99222
1:1 HCL Acid Lot #: M.99218
Digestion Method: 3010A
Hot Plate Temp: 95.1°C

QCS 19 Lot #: M.99214 Amount: 0.5
QCS 7 Lot #: M.99215 Amount: 0.5
ICV Sn Lot #: M.99208 Amount: 0.1
Sample Vials Lot #: 0996

LAL #	Sample Volume (mL)	Conc. HNO_3	1:1 HCL	Final Volume	Dilution	Spikes Added: QCS 19	QCS 7	ICV Sn	Comments
Blank	50	1.5+1.5	5	50	1:1				
LCS						✓	✓	✓	
LCSD						✓	✓	✓	
00297							–		
00298									
00299									
00300									
00301									
00305									
00306									
00307									
00322									
00530									
00530	D								
00530	MS					✓	✓	✓	
00530	MSD					✓	✓	✓	
00531									
00425	4								
00426	5								
00426									
00427									
00428									
00429									
00430									
00431									
00431	D								
3043	MS					✓	✓	✓	
3043	MSD					✓	✓	✓	
24									
RC 10.6.00					RC 10.6.00				

Reviewed By: _____ 3010wdig Page # _____

ACCURA ANALYTICAL LABORATORY, INC.

Environmental Analytical Services

TRACE ICAP STANDARDS PREPARATION

Std #1	Lot #
Blank	NA

Std #8	Lot #
Ag	M99150

Std #3	Lot #
Al	M99073
Be	M99146
Fe	M99076
Ni	M99151
Sb	M99090
Sn	M99087
Tl	M99088

Std #2	Lot #
Ba	M99096
Ca	M99014
Cd	M99075
Co	M99144
Cu	M99148
K	M99152
Mg	M99018
Mn	M99077
Pb	M99089
Zn	M99083

Std #4	Lot #
As	M99074
Cr	M99149
Se	M99086
V	M99145

ICV #1& 2	Lot #
QCS 19	M99129
QCS 7	M99111
ICV Sn	M99153

SS I	Lot #
SS I	M99085

ICS A	Lot #
INFCS IV	M99084

ICS AB	Lot #
INFCS I	M99095
INFCS IV	M99084
INFCS Ag	M99094

Concentrations:
Stds 2,3,4, & 8 = 2ppm
ICV1 = 0.2ppm except K = 2ppm
ICV2= 1.0ppm except K = 20ppm
SSI = mixed, see SOP for conc.
ICS A = 50ppm for Al, Ca, Fe, & Mg
ICS AB = mixed, see SOP for conc.

Date Made	AAL Lot #	Standard #	Method	Date Expire	Analyst	Volume	Comments
		1 (Blank)	6010B/200.7				
		2	6010B/200.7				
		3	6010B/200.7				
		4	6010B/200.7				
		8	6010B/200.7				
05/8/00	T40F	ICV 1	6010B/200.7	06/8/00	RL	500mL	
05/8/00	T40G	ICV 2	6010B/200.7	06/8/00	RL	500mL	
		ICS A	6010B/200.7				
		ICS AB	6010B/200.7				
		SS I	6010B/200.7				
		SS I Low	6010B/200.7				

Standards are approximately 1% Nitric and 5% Hydrochloric Acid.

Reviewed By:_____

ACCURA ANALYTICAL LABORATORY, INC.

Environmental Analytical Services

TRACE ICAP STANDARDS PREPARATION

Std #1	Lot #
Blank	NA See pg 44

Std #8	Lot #
Ag	

Std #3	Lot #
Al	
Be	
Fe	See pg 44
Ni	
Sb	
Sn	
Tl	

Std #2	Lot #
Ba	M99091
Ca	M99143
Cd	
Co	
Cu	See pg 44
K	
Mg	
Mn	
Pb	
Zn	

Std #4	Lot #
As	
Cr	
Se	See pg 44
V	

ICV #1& 2	Lot #
QCS 19	
QCS 7	
ICV Sn	

SS I	Lot #
SS I	

ICS A	Lot #
INFCS IV	See pg 44

ICS AB	Lot #
INFCS I	
INFCS IV	M99186
INFCS Ag	See pg 44

Concentrations:
Stds 2,3,4, & 8 = 2ppm
ICV1 = 0.2ppm except K = 2ppm
ICV2= 1.0ppm except K = 20ppm
SSI = mixed, see SOP for conc.
ICS A = 50ppm for Al, Ca, Fe, & Mg
ICS AB = mixed, see SOP for conc.

Date Made	AAL Lot #	Standard #	Method	Date Expire	Analyst	Volume	Comments
12/11/00	43A	1 (Blank)	6010B/200.7	07/11/00	M.G.	500mL	
	43B	2	6010B/200.7				
	C	3	6010B/200.7			100mL	
	D	4	6010B/200.7			500mL	
	E	8	6010B/200.7			100mL	
	F	ICV 1	6010B/200.7		10	500mL	
	G	ICV 2	6010B/200.7				
	H	ICS A	6010B/200.7				
	I	ICS AB	6010B/200.7				
	J	SS I	6010B/200.7			100mL	
	K	SS I Low	6010B/200.7				

Standards are approximately 1% Nitric and 5% Hydrochloric Acid.

L SSAG

Reviewed By: _____

ACCURA ANALYTICAL LABORATORY, INC.

Environmental Analytical Services

TRACE ICAP STANDARDS PREPARATION

Std #1	Lot #
Blank	NA

Std #8	Lot #
Ag	

Std #3	Lot #
Al	
Be	
Fe	
Ni	
Sb	
Sn	
Tl	

Std #2	Lot #
Ba	
Ca	
Cd	
Co	
Cu	
K	
Mg	
Mn	
Pb	
Zn	

See PS44

Std #4	Lot #
As	
Cr	
Se	
V	

ICV #1& 2	Lot #
QCS 19	
QCS 7	
ICV Sn	

SS I	Lot #
SS I	

ICS A	Lot #
INFCS IV	

ICS AB	Lot #
INFCS I	
INFCS IV	
INFCS Ag	

Concentrations:
Stds 2,3,4, & 8 = 2ppm
ICV1 = 0.2ppm except K = 2ppm
ICV2= 1.0ppm except K = 20ppm
SSI = mixed, see SOP for conc.
ICS A = 50ppm for Al, Ca, Fe, & Mg
ICS AB = mixed, see SOP for conc.

Date Made	AAL Lot #	Standard #	Method	Date Expire	Analyst	Volume	Comments
9/14/00	T99A	1 (Blank)	6010B/200.7	10/14/00	SM.G	500mL	
	B	2	6010B/200.7				
	C	3	6010B/200.7				
	D	4	6010B/200.7				
	E	8	6010B/200.7			100mL	
	F	ICV 1	6010B/200.7				
	G	ICV 2	6010B/200.7				
	H	ICS A	6010B/200.7				
	I	ICS AB	6010B/200.7				
	J	SS I	6010B/200.7				
	K	SS I Low	6010B/200.7				

Standards are approximately 1% Nitric and 5% Hydrochloric Acid.

Reviewed By:_____

#	Sample Name	File	Method	Date	Time	OpID	Type	Mode
1	STD1-Blank	APR0900	WATERS2	10/09/00	06:28		X	IR
2	STD8	APR0900	WATERS2	10/09/00	06:38		X	IR
3	STD3	APR0900	WATERS2	10/09/00	06:45		X	IR
4	STD4	APR0900	WATERS2	10/09/00	06:54		X	IR
5	STD2	APR0900	WATERS2	10/09/00	07:00		X	IR
6	icv 1	APR0900	WATERS2	10/09/00	07:10	sch	Q	CONC
7	icv 2	APR0900	WATERS2	10/09/00	07:19	sch	Q	CONC
8	icb	APR0900	WATERS2	10/09/00	07:28	sch	B	CONC
9	ss i	APR0900	WATERS2	10/09/00	07:34	sch	Q	CONC
10	ss i low	APR0900	WATERS2	10/09/00	07:43	sch	Q	CONC
11	ics a	APR0900	WATERS2	10/09/00	07:59	sch	Q	CONC
12	ics ab	APR0900	WATERS2	10/09/00	08:05	sch	Q	CONC
13	prepblk 0955	APR0900	WATERS2	10/09/00	08:33	sch	S	CONC
14	lcs 100600a	APR0900	WATERS2	10/09/00	08:43	sch	S	CONC
15	lcsd 100600a	APR0900	WATERS2	10/09/00	08:48	sch	S	CONC
16	00297	APR0900	WATERS2	10/09/00	08:55	sch	S	CONC
17	00298	APR0900	WATERS2	10/09/00	09:05	sch	S	CONC
18	00299	APR0900	WATERS2	10/09/00	09:20	sch	S	CONC
19	00300	APR0900	WATERS2	10/09/00	09:32	sch	S	CONC
20	00301	APR0900	WATERS2	10/09/00	09:41	sch	S	CONC
21	00305	APR0900	WATERS2	10/09/00	09:59	sch	S	CONC
22	00306	APR0900	WATERS2	10/09/00	10:09	sch	S	CONC
23	icv 1	APR0900	WATERS2	10/09/00	10:24	sch	Q	CONC
24	icv 2	APR0900	WATERS2	10/09/00	10:32	sch	Q	CONC
25	icb	APR0900	WATERS2	10/09/00	10:44	sch	B	CONC
26	00307	APR0900	WATERS2	10/09/00	10:51	sch	S	CONC
27	00322	APR0900	WATERS2	10/09/00	10:58	sch	S	CONC
28	00530	APR0900	WATERS2	10/09/00	11:07	sch	S	CONC
29	00530 d	APR0900	WATERS2	10/09/00	11:15	sch	S	CONC
30	00530 ms	APR0900	WATERS2	10/09/00	11:23	sch	S	CONC
31	00530 msd	APR0900	WATERS2	10/09/00	11:30	sch	S	CONC
32	00531	APR0900	WATERS2	10/09/00	11:37	sch	S	CONC
33	00424	APR0900	WATERS2	10/09/00	11:44	sch	S	CONC
34	00425	APR0900	WATERS2	10/09/00	11:52	sch	S	CONC
35	00426	APR0900	WATERS2	10/09/00	12:02	sch	S	CONC
36	icv 1	APR0900	WATERS2	10/09/00	12:13	sch	Q	CONC
37	icv 2	APR0900	WATERS2	10/09/00	12:23	sch	Q	CONC
38	icb	APR0900	WATERS2	10/09/00	12:34	sch	B	CONC
39	ss i	APR0900	WATERS2	10/09/00	12:45	sch	Q	CONC
40	ss i low	APR0900	WATERS2	10/09/00	12:52	sch	Q	CONC
41	ics a	APR0900	WATERS2	10/09/00	13:00	sch	Q	CONC
42	ics ab	APR0900	WATERS2	10/09/00	13:09	sch	Q	CONC

#	Element	STD'lank	STD8	STD3	STD4	STD2	icv 1
1	Ag3280	-.002	1.09368				.2057
2	Al3082	.03121		.1125			Q.2589
3	As1890	-.00187			.68539		.1928
4	Ba4934	.00004				2.43886	.2006
5	Be3130	-.00652		2.80808			.2051
6	Ca3179	.00114				.06541	Q.2218
7	Cd2265	-.001				1.42889	.2006
8	Co2286	-.00098				.91171	.2003
9	Cr2677	.00015			.6447		.1992
10	Cu3247	.01976				.77447	.1953
11	Fe2714	.00145		.03503			.2046
12	K_7664	.0543				1.62145	Q1.882
13	Mg2790	-.00036				.06595	.1961
14	Mn2576	.00051				.76797	.1991
15	Ni2316	-.00232		.64537			.1975
16	2203/1	.00384				2.84076	.2027
17	2203/2	.0047				2.58914	.1985
18	1960/1	-.03199			2.53609		.1992
19	1960/2	.00857			1.09405		.2007
20	Sb2068	.00179		.64309			.2053
21	Sn1899	-.00017		.41743			.1964
22	Tl1908	-.00091		.16512			.2009
23	V_2924	-.0008			.30475		.1972
24	Zn2062	-.00022				.33904	.2006
25	Pb2203						.2018
26	Se1960						.2001

#	Element	icv 2	icb	ss i	ss i low	ics a	ics ab
1	Ag3280	1.036	.0010	Q.0014	.0011	.0007	.3282
2	Al3082	1.050	H.1075	Q.1344	.1571	49.26	49.88
3	As1890	.9898	-.0045	.0333	.0085	-.0054	1.002
4	Ba4934	.9993	.0001	.0400	.0111	.0002	.3057
5	Be3130	1.009	.0002	Q.0012	.0003	.0000	.1019
6	Ca3179	.9773	-.0043	.0464	.0289	50.24	50.59
7	Cd2265	.9835	.0010	.0011	.0006	.0028	.3064
8	Co2286	.9911	.0010	.0092	Q.0016	.0007	.3063
9	Cr2677	.9877	.0008	.0039	Q.0017	-.0006	.3034
10	Cu3247	.9868	L-.0036	Q.0010	-.0026	Q.0262	.3461
11	Fe2714	Q1.071	-.0127	Q.0531	.0077	51.53	52.04
12	K_7664	9.478	.0186	.0288	.0077	Q.2984	Q30.64
13	Mg2790	.9619	.0026	.0129	.0036	50.73	51.37
14	Mn2576	.9846	.0001	.0099	.0028	.0010	.2060
15	Ni2316	.9928	-.0003	.0094	Q.0010	.0006	.3056
16	2203/1	.9896	.0020	.0105	.0058	.0242	1.061
17	2203/2	.9852	-.0038	.0056	-.0041	-.0031	1.048
18	1960/1	.9818	-.0051	.0420	.0044	.0021	.5021
19	1960/2	.9697	-.0038	.0385	.0105	.0041	.4973
20	Sb2068	.9817	.0013	.0118	.0025	.0091	1.003
21	Sn1899	.9869	-.0018	-.0015	-.0018	.0063	1.021
22	Tl1908	1.004	L-.0039	.0331	.0116	Q.0451	1.111
23	V_2924	.9769	.0011	.0118	Q.0036	.0028	.3004

#	Element	icv 2	icb	ss i	ss i low	ics a	ics ab
24	Zn2062	.9801	.0001	.0093	.0024	.0023	.2985
25	Pb2203	.9886	.0005	.0093	.0029	.0156	1.057
26	Se1960	.9781	-.0043	.0412	Q.0069	.0029	.5006

#	Element	pre'0955 12:33	lcs'600a	lcs'600a	00297	00298	00299
1	Ag3280	.0003	1.023	1.025	.0013	.0008	.0010
2	Al3082	.2399	1.165	1.176	.4993	.7577	.5238
3	As1890	-.0093	1.010	.9990	-.0008	-.0012	-.0029
4	Ba4934	.0004	.9984	.9950	.0038	.0047	.0024
5	Be3130	.0001	1.048	1.053	.0005	.0003	.0004
6	Ca3179	.0462	1.001	.9974	2.630	7.715	2.715
7	Cd2265	.0006	.9726	.9708	.0009	-.0004	-.0003
8	Co2286	-.0000	.9953	.9975	.0021	.0013	.0042
9	Cr2677	.0004	.9859	.9883	.0026	.0013	.0018
10	Cu3247	-.0071	1.003	1.003	.0042	.0039	.0020
11	Fe2714	-.0277	1.059	1.069	.0385	.0570	.1117
12	K_7664	.1422	8.653	8.493	9.204	15.99	4.583
13	Mg2790	.0183	.9447	.9381	.0533	.0503	.0864
14	Mn2576	.0001	1.004	.9921	.0020	.0017	.0033
15	Ni2316	-.0010	.9826	.9798	.0068	.0034	.0023
16	2203/1	.0016	.9924	.9969	.0054	-.0006	-.0024
17	2203/2	.0027	1.000	1.015	-.0090	-.0045	.0007
18	1960/1	-.0034	.9759	.9697	.0093	.0061	-.0017
19	1960/2	-.0056	.9882	.9908	-.0070	-.0049	-.0010
20	Sb2068	.0026	.9623	.9633	.0048	.0042	-.0005
21	Sn1899	-.0003	2.016	2.025	-.0027	-.0007	-.0066
22	Tl1908	-.0022	1.031	1.046	-.0014	-.0044	-.0056
23	V_2924	.0016	.9724	.9743	.0037	.0032	.0028
24	Zn2062	.0287	.9871	.9917	.0129	.0093	.0268
25	Pb2203	.0024	.9955	1.003	.0011	-.0015	-.0010
26	Se1960	-.0037	.9804	.9771	.0043	.0028	-.0011

#	Element	00300	00301	00305	00306	icv 1	icv 2
1	Ag3280	.0007	.0013	.0012	.0008	.2090	1.037
2	Al3082	.5236	.6573	.6227	.6960	Q.5672	Q1.286
3	As1890	-.0052	-.0013	-.0027	-.0013	.1991	.9962
4	Ba4934	.0019	.0018	.0020	.0020	.1983	.9763
5	Be3130	.0003	.0003	.0002	.0003	Q.2141	1.045
6	Ca3179	3.034	5.459	2.459	3.037	.2107	.9620
7	Cd2265	-.0002	.0003	-.0003	-.0002	.1919	Q.9416
8	Co2286	.0009	.0016	.0022	.0026	.1982	.9748
9	Cr2677	.0020	.0012	.0005	.0016	.1944	.9625
10	Cu3247	.0030	.0034	.0019	.0015	Q.1868	.9734
11	Fe2714	.0402	.0231	.0793	.0680	.2103	1.051
12	K_7664	5.685	10.65	5.452	6.709	Q1.789	Q8.763
13	Mg2790	.0620	.0697	.0762	.0774	Q.1876	Q.9022
14	Mn2576	.0020	.0019	.0025	.0028	.1974	.9707
15	Ni2316	.0045	.0049	.0066	.0053	.1900	Q.9388
16	2203/1	-.0049	-.0009	-.0001	-.0034	.2000	.9700
17	2203/2	.0032	-.0062	-.0023	-.0015	.1922	.9879

#	Element	00300	00301	00305	00306	icv 1	icv 2
18	1960/1	.0021	.0054	-.0025	.0031	.1920	.9729
19	1960/2	-.0006	-.0029	-.0008	-.0014	.1903	.9750
20	Sb2068	.0015	.0036	.0025	-.0006	.1930	Q.9326
21	Sn1899	-.0018	-.0017	-.0046	-.0041	.1945	.9922
22	Tl1908	.0003	-.0016	-.0087	-.0043	.2014	1.046
23	V_2924	.0026	.0041	.0028	.0032	.1944	.9507
24	Zn2062	.0153	.0089	.0095	.0135	.1936	.9493
25	Pb2203	-.0018	-.0022	-.0004	-.0023	.1979	.9764
26	Se1960	.0016	.0031	-.0015	.0020	.1918	.9740

#	Element	icb	00307	00322	00530	00530 d	00530 ms
1	Ag3280	.0008	.0011	.0008	.0010	.0003	1.008
2	Al3082	H.4040	.9096	.3929	.1375	-.2119	.7347
3	As1890	L-.0051	-.0035	-.0021	-.0025	-.0040	.9484
4	Ba4934	.0000	.0020	.0126	.1332	.0978	1.040
5	Be3130	.0003	.0003	.0003	.0005	.0004	.9997
6	Ca3179	-.0163	5.518	11.29	101.6	102.2	99.26
7	Cd2265	-.0009	.0004	.0002	.0019	.0012	.8990
8	Co2286	.0013	.0045	.0011	.0023	.0014	.9530
9	Cr2677	.0002	.0026	.0005	.0601	.0278	.9509
10	Cu3247	L-.0126	.0012	.0013	.0162	.0823	1.101
11	Fe2714	-.0340	.0197	-.0355	53.57	32.55	32.42
12	K_7664	.0143	11.77	1.856	21.94	22.70	32.54
13	Mg2790	.0193	.0838	1.236	21.41	22.70	22.78
14	Mn2576	-.0001	.0031	.0033	.3396	.4802	1.406
15	Ni2316	-.0003	.0049	.0003	.0145	.0813	.9891
16	2203/1	.0056	.0046	.0057	.0083	.0171	.9877
17	2203/2	-.0034	-.0013	-.0026	-.0030	.0126	1.006
18	1960/1	-.0004	.0031	.0004	-.0049	.0072	.9301
19	1960/2	-.0053	-.0074	-.0047	-.0026	-.0026	.9423
20	Sb2068	.0010	.0013	.0049	.0023	.0036	.8824
21	Sn1899	-.0017	.0004	-.0009	.0077	-.0009	1.937
22	Tl1908	L-.0047	.0041	-.0053	.0432	.0288	1.059
23	V_2924	.0030	.0052	.0023	.0052	.0035	.9032
24	Zn2062	.0007	.0102	.0041	.1289	3.319	4.086
25	Pb2203	H.0030	.0031	.0034	.0050	.0161	.9943
26	Se1960	-.0017	-.0000	-.0009	-.0037	.0044	.9345

#	Element	005' msd	00531	00424	00425	00426	icv 1
				1544	15:52	16:02	
1	Ag3280	1.053	.0016	.0010	.0010	.0005	.2098
2	Al3082	.7476	-.2082	.3481	43.70	6.315	Q.6788
3	As1890	.9798	.0020	-.0050	.0003	.0002	.2078
4	Ba4934	1.082	.0989	.0630	.1462	.0795	.1980
5	Be3130	1.042	.0008	.0006	.0010	.0149	Q.2180
6	Ca3179	100.5	104.3	172.4	213.2	122.9	Q.3108
7	Cd2265	.9307	.0015	.0000	.0000	.0095	Q.1890
8	Co2286	.9896	.0026	.0009	.0024	.0832	.1974
9	Cr2677	.9874	.0283	.0032	.0280	.0161	.1934
10	Cu3247	1.152	.0835	.0050	.0222	.0099	Q.1868
11	Fe2714	32.83	33.09	.5729	4.286	43.82	Q.4105

#	Element	005' msd	00531	00424	00425	00426	icv 1
				15:44	15:52	16:02	
12	K_7664	33.74	22.75	13.41	6.360	6.995	Q1.700
13	Mg2790	23.07	23.04	8.042	13.45	7.907	Q.1832
14	Mn2576	1.451	.4881	.0873	.1334	.0730	.1980
15	Ni2316	1.026	.0829	.0029	.0115	.1032	Q.1822
16	2203/1	1.024	.0180	.0045	.0409	.0526	.2062
17	2203/2	1.042	.0113	-.0019	.0117	.0452	.1928
18	1960/1	.9643	.0074	.0056	.0074	.0079	.2060
19	1960/2	.9849	-.0023	-.0042	.0001	.0015	.2039
20	Sb2068	.9185	.0042	.0030	.0020	.0001	.1923
21	Sn1899	2.029	-.0030	-.0018	-.0033	-.0018	.2010
22	Tl1908	1.116	.0364	-.0017	-.0093	.0290	.2103
23	V_2924	.9373	.0049	.0087	.0418	.1165	.1931
24	Zn2062	4.154	3.369	.0106	.0453	.0615	.1991
25	Pb2203	1.031	.0163	.0028	.0316	.0506	.2023
26	Se1960	.9715	.0045	.0028	.0051	.0061	.2057

#	Element	icv 2	icb	ss i	ss i low	ics a	ics ab
1	Ag3280	1.032	.0005	Q.0017	.0017	.0014	.3223
2	Al3082	Q1.370	H.4374	Q.4989	.4604	44.87	46.28
3	As1890	.9963	-.0035	.0344	.0082	-.0073	1.004
4	Ba4934	.9625	.0001	.0382	.0102	.0002	.2950
5	Be3130	Q1.058	.0006	Q.0015	.0008	.0005	.1052
6	Ca3179	.9664	-.0152	.0315	.0164	48.29	49.38
7	Cd2265	Q.9226	-.0002	Q.0006	-.0004	.0019	.2844
8	Co2286	.9681	.0018	.0101	Q.0038	.0011	.2975
9	Cr2677	.9485	-.0007	.0045	Q.0023	.0010	.2886
10	Cu3247	.9699	L-.0176	Q-.0121	-.0169	.0125	.3311
11	Fe2714	1.020	-.0444	Q.0456	-.0046	49.36	50.67
12	K_7664	Q8.541	-.0546	.0700	.1136	Q.2468	Q28.37
13	Mg2790	Q.8824	.0023	.0115	.0073	45.78	47.11
14	Mn2576	.9658	-.0004	.0092	.0022	.0007	.1999
15	Ni2316	Q.9114	.0029	.0107	.0023	.0015	.2788
16	2203/1	.9592	.0008	.0067	.0070	.0263	1.016
17	2203/2	.9815	.0047	.0059	-.0028	-.0050	1.025
18	1960/1	.9647	.0056	.0432	.0177	.0044	.4972
19	1960/2	.9778	-.0067	.0365	.0064	-.0006	.4959
20	Sb2068	Q.9207	H.0038	.0095	.0044	.0084	.9314
21	Sn1899	.9878	L-.0056	-.0014	-.0004	-.0012	1.005
22	Tl1908	1.050	L-.0052	.0376	.0113	Q.0402	1.119
23	V_2924	Q.9418	.0038	Q.0123	Q.0057	.0040	.2883
24	Zn2062	Q.9402	-.0005	.0101	.0027	.0033	.2836
25	Pb2203	.9670	H.0025	Q.0069	Q.0042	.0163	1.019
26	Se1960	.9694	.0019	.0414	Q.0143	.0029	.4969

Analysis Report Summary 10/10/00 05:29:43 PM page 1

#	Sample Name	File	Method	Date	Time	OpID	Type	Mode
1	STD1-Blank	APR1000	WATERS2	10/10/00	08:05		X	IR
2	STD8	APR1000	WATERS2	10/10/00	08:10		X	IR
3	STD3	APR1000	WATERS2	10/10/00	08:15		X	IR
4	STD4	APR1000	WATERS2	10/10/00	08:21		X	IR
5	STD2	APR1000	WATERS2	10/10/00	08:28		X	IR
6	icv 1	APR1000	WATERS2	10/10/00	08:34	sch	Q	CONC
7	icv 2	APR1000	WATERS2	10/10/00	08:46	sch	Q	CONC
8	icb	APR1000	WATERS2	10/10/00	08:54	sch	B	CONC
9	ss i	APR1000	WATERS2	10/10/00	08:59	sch	Q	CONC
10	ss i low	APR1000	WATERS2	10/10/00	09:08	sch	Q	CONC
11	ics a	APR1000	WATERS2	10/10/00	09:19	sch	Q	CONC
12	ics ab	APR1000	WATERS2	10/10/00	09:27	sch	Q	CONC
13	00427	APR1000	WATERS2	10/10/00	09:45	sch	S	CONC
14	00428	APR1000	WATERS2	10/10/00	09:54	sch	S	CONC
15	00429	APR1000	WATERS2	10/10/00	10:04	sch	S	CONC
16	00430	APR1000	WATERS2	10/10/00	10:10	sch	S	CONC
17	00431	APR1000	WATERS2	10/10/00	10:19	sch	S	CONC
18	00424 d	APR1000	WATERS2	10/10/00	10:28	sch	S	CONC
19	00424 ms	APR1000	WATERS2	10/10/00	10:35	sch	S	CONC
20	00424 msd	APR1000	WATERS2	10/10/00	10:42	sch	S	CONC
21	00297 1:4sd	APR1000	WATERS2	10/10/00	10:51	sch	S	CONC
22	00297 1:1msa	APR1000	WATERS2	10/10/00	10:59	sch	S	CONC
23	icv 1	APR1000	WATERS2	10/10/00	11:09	sch	Q	CONC
24	icv 2	APR1000	WATERS2	10/10/00	11:17	sch	Q	CONC
25	icb	APR1000	WATERS2	10/10/00	11:32	sch	B	CONC
26	00530 diss	APR1000	WATERS2	10/10/00	11:40	sch	S	CONC
27	00531 diss	APR1000	WATERS2	10/10/00	11:47	sch	S	CONC
28	prepblk 0830	APR1000	WATERS2	10/10/00	11:55	sch	S	CONC
29	lcs 100900a	APR1000	WATERS2	10/10/00	12:07	sch	S	CONC
30	lcsd 100900a	APR1000	WATERS2	10/10/00	12:16	sch	S	CONC
31	00324	APR1000	WATERS2	10/10/00	12:25	sch	S	CONC
32	00325	APR1000	WATERS2	10/10/00	12:42	sch	S	CONC
33	00326	APR1000	WATERS2	10/10/00	12:51	sch	S	CONC
34	00327	APR1000	WATERS2	10/10/00	12:59	sch	S	CONC
35	00328	APR1000	WATERS2	10/10/00	13:13	sch	S	CONC
36	icv 1	APR1000	WATERS2	10/10/00	13:25	sch	Q	CONC
37	icv 2	APR1000	WATERS2	10/10/00	13:34	sch	Q	CONC
38	icb	APR1000	WATERS2	10/10/00	13:43	sch	B	CONC
39	00329	APR1000	WATERS2	10/10/00	13:51	sch	S	CONC
40	00330	APR1000	WATERS2	10/10/00	13:58	sch	S	CONC
41	00331	APR1000	WATERS2	10/10/00	14:06	sch	S	CONC
42	00332	APR1000	WATERS2	10/10/00	14:16	sch	S	CONC
43	00333	APR1000	WATERS2	10/10/00	14:25	sch	S	CONC
44	00334	APR1000	WATERS2	10/10/00	14:34	sch	S	CONC
45	00335	APR1000	WATERS2	10/10/00	14:42	sch	S	CONC
46	00337	APR1000	WATERS2	10/10/00	14:49	sch	S	CONC
47	00337 d	APR1000	WATERS2	10/10/00	14:56	sch	S	CONC
48	00337 ms	APR1000	WATERS2	10/10/00	15:04	sch	S	CONC
49	icv 1	APR1000	WATERS2	10/10/00	15:12	sch	Q	CONC
50	icv 2	APR1000	WATERS2	10/10/00	15:18	sch	Q	CONC
51	icb	APR1000	WATERS2	10/10/00	15:26	sch	B	CONC
52	00337 msd	APR1000	WATERS2	10/10/00	15:32	sch	S	CONC
53	00324 1:4sd	APR1000	WATERS2	10/10/00	15:40	sch	S	CONC

pros 25-26 (Pb)

#	Sample Name	File	Method	Date	Time	OpID	Type	Mode
54	00324 1:1msa	APR1000	WATERS2	10/10/00	15:49	sch	S	CONC
55	icv 1	APR1000	WATERS2	10/10/00	15:57	sch	Q	CONC
56	icv 2	APR1000	WATERS2	10/10/00	16:03	sch	Q	CONC
57	icb	APR1000	WATERS2	10/10/00	16:38	sch	B	CONC
58	ss i	APR1000	WATERS2	10/10/00	16:44	sch	Q	CONC
59	ss i low	APR1000	WATERS2	10/10/00	16:52	sch	Q	CONC
60	ics a	APR1000	WATERS2	10/10/00	16:59	sch	Q	CONC
61	ics ab	APR1000	WATERS2	10/10/00	17:07	sch	Q	CONC

#	Element	STD'lank	STD8	STD3	STD4	STD2	icv 1
1	Ag3280	-.00179	1.0263				.2054
2	Al3082	.03146		.10545			Q.2530
3	As1890	.00262			.66611		Q.1825
4	Ba4934	0				2.32279	.1989
5	Be3130	-.006		2.74843			.2049
6	Ca3179	.00109				.06341	Q.2587
7	Cd2265	-.00055				1.37827	.1968
8	Co2286	-.00035				.87939	.1973
9	Cr2677	.00002			.60829		.2009
10	Cu3247	.01766				.72953	.1963
11	Fe2714	.00092		.03218			Q.3491
12	K_7664	.04238				1.33115	1.902
13	Mg2790	-.00014				.06227	.1895
14	Mn2576	.00036				.7376	.1989
15	Ni2316	-.00283		.6113			Q.2122
16	2203/1	.00057				2.71936	.1957
17	2203/2	-.00018				2.45819	.1991
18	1960/1	-.023			2.54557		.2069
19	1960/2	.00494			1.06235		.2031
20	Sb2068	.0019		.60967			.2012
21	Sn1899	-.00057		.408			.1985
22	Tl1908	-.00081		.15796			.1985
23	V_2924	-.00078			.28591		.1991
24	Zn2062	-.00013				.33469	.2013
25	Pb2203						.1972
26	Se1960						.2060

#	Element	icv 2	icb	ss i	ss i low	ics a	ics ab
1	Ag3280	Q1.072	.0006	Q.0018	.0010	.0009	.3212
2	Al3082	Q1.128	H.0669	Q.0848	.0987	49.46	50.04
3	As1890	1.034	L-.0146	Q.0200	Q-.0098	Q-.0168	.9952
4	Ba4934	1.021	.0001	.0390	.0107	.0002	.2984
5	Be3130	Q1.060	.0001	.0012	.0002	.0000	.1013
6	Ca3179	1.024	-.0025	.0657	.0332	49.34	49.73
7	Cd2265	1.021	.0002	Q.0003	-.0000	.0033	.3023
8	Co2286	1.028	.0000	.0100	Q.0011	-.0000	.2999
9	Cr2677	1.051	.0006	Q.0613	Q.0008	.0009	.3055
10	Cu3247	1.013	-.0012	.0046	-.0003	Q.0293	.3400
11	Fe2714	Q1.201	.0210	Q.3674	.0173	52.33	52.86
12	K_7664	9.456	H.1636	.1156	.1689	Q.3459	Q30.40
13	Mg2790	.9828	-.0018	-.0086	-.0003	50.25	50.80
14	Mn2576	1.021	.0003	Q.0152	.0030	.0013	.2022
15	Ni2316	1.043	.0034	Q.0459	Q.0014	.0041	.3001
16	2203/1	1.019	.0034	.0086	.0037	.0310	1.053
17	2203/2	1.020	.0019	.0156	.0047	.0064	1.029
18	1960/1	1.031	-.0026	.0303	.0052	-.0032	.5020
19	1960/2	1.024	.0062	.0399	.0116	.0085	.5132
20	Sb2068	1.026	.0012	Q.0134	.0004	.0089	.9993
21	Sn1899	1.037	.0023	.0015	-.0012	.0041	1.009
22	Tl1908	Q1.061	L-.0097	.0420	Q.0035	Q.0468	1.084
23	V_2924	1.028	.0012	.0114	Q.0037	.0009	.3004

#	Element	icv 2	icb	ss i	ss i low	ics a	ics ab
24	Zn2062	1.030	-.0008	.0107	.0016	.0023	.2997
25	Pb2203	1.019	H.0033	.0114	Q.0045	Q.0232	1.046
26	Se1960	1.029	.0007	.0338	Q.0077	.0008	.5058

#	Element	00427	00428	00429	00430	00431	00424 d
		13:45	13:54	14:04	14:10	14:19	
1	Ag3280	-.0006	.0006	.0005	-.0001	.0009	.0001
2	Al3082	47.08	142.6	34.56	44.10	.2094	.2861
3	As1890	-.0036	.0021	-.0143	-.0083	-.0158	-.0140
4	Ba4934	.6004	.9649	.3522	.4172	.0006	.0638
5	Be3130	.0192	.0243	.0042	.0078	-.0001	.0001
6	Ca3179	72.72	86.01	197.7	51.12	.0197	174.3
7	Cd2265	.0019	.0082	.0011	.0014	-.0007	-.0002
8	Co2286	.0041	.0460	.0016	.0247	.0003	-.0005
9	Cr2677	.0715	.1477	.0501	.0511	.0016	.0020
10	Cu3247	.0235	.8503	.0369	.3182	-.0042	.0153
11	Fe2714	38.09	123.0	22.53	39.95	-.0135	.6310
12	K_7664	2.655	5.613	7.517	2.925	.4775	14.20
13	Mg2790	6.204	21.66	9.678	13.35	.0040	8.454
14	Mn2576	.3918	.2378	.2711	.1279	.0001	.0871
15	Ni2316	.0213	.1519	.0121	.0746	.0025	.0052
16	2203/1	.0925	.2654	.0537	.0875	.0041	-.0003
17	2203/2	.0706	.1854	.0431	.0595	.0076	.0028
18	1960/1	.0103	.0266	.0085	.0062	.0038	-.0031
19	1960/2	.0126	.0382	.0078	.0155	.0003	-.0022
20	Sb2068	.0073	.0224	.0041	.0053	-.0002	.0026
21	Sn1899	.0035	.0088	.0031	.0077	-.0024	.0022
22	Tl1908	.0265	.1047	.0131	.0208	-.0170	-.0066
23	V_2924	.3268	.3392	.0675	.1209	.0016	.0087
24	Zn2062	.0478	1.466	.0265	.2885	.0027	.0087
25	Pb2203	.0856	.2392	.0506	.0786	.0057 J	.0012
26	Se1960	.0111	.0300	.0084	.0094	.0030	-.0025

#	Element	00424 ms	004' msd	002':4sd	002'1msa	icv 1	icv 2
1	Ag3280	1.057	1.043	.0017	.2066	.2047	1.032
2	Al3082	2.037	2.095	1.522	1.121	Q.4544	Q1.202
3	As1890	.9786	.9748	-.0838	.1785	.1904	1.010
4	Ba4934	1.057	1.051	.0050	.2010	.1953	.9723
5	Be3130	1.031	1.018	.0010	.2149	Q.2124	1.053
6	Ca3179	177.9	176.8	2.798	2.947	Q.2525	.9769
7	Cd2265	.9506	.9342	.0024	.1941	.1919	.9563
8	Co2286	.9873	.9733	-.0057	.1996	.1959	.9848
9	Cr2677	.9925	.9781	.0030	.2050	Q.2133	.9945
10	Cu3247	1.061	1.060	-.0191	.1989	Q.1884	.9714
11	Fe2714	1.906	1.875	-.0473	.2638	Q.3956	Q1.123
12	K_7664	24.73	25.45	8.702	11.54	1.942	Q8.655
13	Mg2790	9.599	9.606	.0657	.2343	Q.1782	Q.9143
14	Mn2576	1.069	1.054	.0038	.1982	.1973	.9758
15	Ni2316	.9925	.9703	.0283	.2064	.2059	.9624
16	2203/1	1.018	1.002	-.0186	.2026	.2021	.9871
17	2203/2	1.024	1.014	-.0002	.1994	.1966	.9991

#	Element	00424 ms	004' msd	002':4sd	002'1msa	icv 1	icv 2
18	1960/1	.9852	.9876	.0073	.1921	.2009	1.002
19	1960/2	.9877	.9922	-.0156	.1997	.2045	1.007
20	Sb2068	.9404	.9277	-.0070	.2026	.1934	.9503
21	Sn1899	2.038	1.989	.0254	.2118	.2018	1.008
22	T11908	1.049	1.042	.0011	.2044	.2020	1.052
23	V_2924	.9679	.9555	.0116	.2032	.1972	.9792
24	Zn2062	.9721	.9567	.0127	.2110	.2012	.9800
25	Pb2203	1.020	1.006	-.0104	.2024	.2006	.9915
26	Se1960	.9864	.9894	.0015	.1954	.2025	1.004

MS/MSD
90 RPD
0.9990

#	Element	icb	005'diss	005'diss	pre'0830	lcs'900a	lcs'900a
1	Ag3280	.0005	.0004	.0003	.0005	1.032	1.055
2	Al3082	H.2703	.0868	.4329	.3116	1.310	1.288
3	As1890	L-.0130	-.0205	-.0147	-.0203	1.024	1.033
4	Ba4934	.0001	.1162	.0622	.0008	.9908	.9969
5	Be3130	.0001	.0001	-.0001	.0000	1.065	1.080
6	Ca3179	-.0074	96.36	96.35	.0141	.9822	1.001
7	Cd2265	-.0004	.0013	-.0012	-.0008	.9564	.9708
8	Co2286	-.0017	-.0005	-.0026	.0001	.9868	1.002
9	Cr2677	.0003	.0464	.0041	.0020	.9921	1.008
10	Cu3247	L-.0071	.0160	.0096	-.0076	1.001	1.009
11	Fe2714	.0071	45.60	.1020	-.0198	1.123	1.163
12	K_7664	H.2771	25.07	25.08	.3811	9.095	9.008
13	Mg2790	.0012	21.00	22.98	.0047	.9313	.9314
14	Mn2576	-.0001	.3110	.4010	.0001	.9825	.9944
15	Ni2316	.0020	.0181	.0643	.0055	.9636	.9759
16	2203/1	.0071	.0111	.0080	.0004	.9916	1.003
17	2203/2	-.0006	.0017	.0038	-.0005	1.004	1.020
18	1960/1	-.0072	.0100	-.0026	.0036	.9963	1.022
19	1960/2	-.0042	.0104	.0017	.0081	1.010	1.027
20	Sb2068	.0023	.0056	.0021	.0045	.9565	.9660
21	Sn1899	.0018	.0214	.0081	.0010	2.048	2.092
22	T11908	L-.0034	.0156	-.0105	-.0154	1.053	1.082
23	V_2924	.0018	.0035	.0025	.0022	.9831	.9909
24	Zn2062	.0000	.0638	.7639	.0050	.9901	1.005
25	Pb2203	H.0050	.0084	.0071	.0005	.9962	1.009
26	Se1960	L-.0058	.0105	-.0008	.0055	1.001	1.024

#	Element	00324	00325	00326	00327	00328	icv 1
1	Ag3280	.0004	.0007	.0005	.0008	.0006	.2063
2	Al3082	.7141	.4490	-.0058	.2907	.4388	Q.5275
3	As1890	-.0178	-.0220	-.0177	-.0200	-.0200	.1916
4	Ba4934	.0746	.0760	.0849	.0361	.0776	.1951
5	Be3130	.0001	.0002	.0001	.0001	.0001	Q.2163
6	Ca3179	2.834	2.616	7.937	6.132	2.895	Q.2227
7	Cd2265	-.0014	-.0002	.0023	-.0005	-.0008	.1909
8	Co2286	-.0000	.0000	.0030	.0010	.0024	.1973
9	Cr2677	.0026	.0009	.0008	.0011	.0036	.2060
10	Cu3247	-.0052	-.0075	.0011	-.0063	-.0065	Q.1882
11	Fe2714	.2857	-.0076	43.95	8.278	.0927	Q.2662

#	Element	00324	00325	00326	00327	00328	icv 1
12	K_7664	.9764	2.031	2.461	3.241	1.638	2.054
13	Mg2790	1.577	1.606	5.203	1.655	1.974	.1921
14	Mn2576	.0978	.0178	.7189	.2611	.0912	.1970
15	Ni2316	.0035	.0014	.0032	.0063	.0053	.1972
16	2203/1	.0081	-.0015	.0062	.0055	.0058	.1993
17	2203/2	-.0016	.0017	.0028	.0007	-.0007	.2074
18	1960/1	-.0078	-.0057	-.0076	-.0058	-.0017	.2070
19	1960/2	.0066	.0064	.0093	.0046	.0028	.2012
20	Sb2068	.0003	.0008	.0065	.0046	-.0008	.1957
21	Sn1899	-.0014	-.0036	.0004	.0056	-.0010	.2015
22	Tl1908	.0022	-.0041	.0316	-.0024	-.0066	.2094
23	V_2924	.0025	.0019	.0025	.0030	.0017	.1969
24	Zn2062	.0069	.0044	.0014	.0043	.0040	.2011
25	Pb2203	.0053	-.0000	.0055	.0043	.0041	.2024
26	Se1960	-.0026	-.0013	-.0016	-.0019	.0001	.2055

#	Element	icv 2	icb	00329	00330	00331	00332
1	Ag3280	1.016	.0009	.0002	-.0002	.0012	-.0000
2	Al3082	Q1.226	H.3099	.3851	.1255	1.096	.0424
3	As1890	.9861	L-.0118	-.0188	-.0247	-.0176	-.0208
4	Ba4934	.9473	.0000	.1473	.2014	.0402	.0652
5	Be3130	1.036	.0002	.0003	.0001	.0001	.0001
6	Ca3179	.9549	-.0111	22.28	18.95	1.551	2.987
7	Cd2265	Q.9273	-.0002	-.0004	.0001	-.0014	.0009
8	Co2286	.9620	-.0004	.0017	.0852	.0005	.0080
9	Cr2677	.9710	.0012	.0023	.0009	.0033	.0027
10	Cu3247	.9526	L-.0084	-.0038	-.0028	-.0065	.0028
11	Fe2714	Q1.100	-.0081	6.748	11.79	1.510	35.35
12	K_7664	Q8.210	H.1469	5.804	8.211	.7865	1.574
13	Mg2790	Q.8773	-.0014	6.152	7.257	1.289	1.945
14	Mn2576	.9533	.0000	.4189	3.446	.0097	.7509
15	Ni2316	Q.9384	.0025	.0026	.0040	.0016	.0013
16	2203/1	.9622	.0039	.0020	-.0031	.0033	.0118
17	2203/2	.9967	-.0050	.0032	.0035	.0029	.0006
18	1960/1	.9834	-.0037	-.0065	-.0149	-.0078	-.0096
19	1960/2	.9861	-.0038	-.0011	.0020	.0073	.0011
20	Sb2068	Q.9265	H.0050	.0007	-.0024	-.0006	.0033
21	Sn1899	.9821	.0022	.0006	-.0045	.0062	.0065
22	Tl1908	1.047	H.0022	.0086	-.0023	-.0087	.0227
23	V_2924	.9539	.0021	.0033	.0021	.0043	.0026
24	Zn2062	.9617	-.0009	.0022	.0053	.0028	.0045
25	Pb2203	.9741	.0014	.0028	-.0005	.0036	.0085
26	Se1960	.9847	-.0034	-.0043	-.0089	-.0024	-.0056

#	Element	00333	00334	00335	00337	00337 d	00337 ms
1	Ag3280	-.0001	.0009	-.0001	.0009	-.0005	1.031
2	Al3082	.2622	.1908	.9999	.2508	.2332	1.212
3	As1890	-.0188	-.0212	-.0225	-.0229	-.0181	1.010
4	Ba4934	.1095	.2740	.0506	.0004	.0005	.9844
5	Be3130	.0002	.0001	.0002	.0001	.0001	1.051

#	Element	00333	00334	00335	00337	00337 d	00337 ms
6	Ca3179	7.236	16.51	3.685	.0269	.0176	.9953
7	Cd2265	.0001	-.0010	-.0010	-.0017	-.0012	.9587
8	Co2286	.0033	.0004	.0109	-.0013	-.0005	.9874
9	Cr2677	.0007	.0016	.0023	.0013	.0019	.9954
10	Cu3247	-.0045	-.0055	-.0048	-.0045	-.0065	.9897
11	Fe2714	6.635	-.0108	1.894	.0152	-.0154	1.106
12	K_7664	15.18	3.541	1.840	.1736	.3084	8.915
13	Mg2790	5.604	6.490	1.564	-.0024	.0052	.9358
14	Mn2576	.1165	.0619	.1962	.0002	-.0001	.9766
15	Ni2316	-.0001	.0009	.0046	.0030	.0011	.9762
16	2203/1	-.0041	.0025	-.0028	-.0004	.0070	.9947
17	2203/2	-.0024	.0050	.0016	.0046	.0040	.9924
18	1960/1	-.0050	-.0084	-.0038	-.0052	.0003	.9992
19	1960/2	-.0036	.0045	-.0059	.0023	.0005	1.002
20	Sb2068	-.0029	.0038	.0054	.0005	.0069	.9594
21	Sn1899	-.0007	-.0002	.0005	.0038	.0029	2.046
22	Tl1908	.0050	-.0034	-.0103	-.0104	-.0081	1.046
23	V_2924	.0021	.0016	.0031	.0034	.0013	.9763
24	Zn2062	.0067	.0004	.0060	.0016	.0002	.9953
25	Pb2203	-.0031	.0038	-.0009	.0017	.0064	.9943
26	Se1960	-.0041	-.0038	-.0041	-.0023	.0008	1.000

#	Element	icv 1	icv 2	icb	003' msd	003':4sd	003'1msa
1	Ag3280	.2053	1.032	.0004	1.029	.0036	.2115
2	Al3082	Q.4470	Q1.190	H.2619	1.267	1.717	1.277
3	As1890	.1897	1.012	L-.0158	1.019	-.0974	.1758
4	Ba4934	.1952	.9690	.0001	.9788	.0691	.2768
5	Be3130	Q.2142	Q1.061	.0001	1.055	.0015	.2206
6	Ca3179	Q.2252	.9857	-.0095	1.013	2.642	3.169
7	Cd2265	.1928	.9586	-.0003	.9572	-.0022	.1982
8	Co2286	.1984	.9855	-.0002	.9865	-.0024	.2034
9	Cr2677	.2065	.9994	.0012	.9959	.0025	.2216
10	Cu3247	Q.1880	.9682	L-.0065	.9869	-.0347	.1948
11	Fe2714	Q.2745	Q1.130	-.0212	1.149	.2241	.7749
12	K_7664	1.913	Q8.430	H.2408	8.877	1.446	3.112
13	Mg2790	Q.1787	Q.9034	-.0009	.9641	1.447	1.833
14	Mn2576	.1963	.9774	.0003	.9767	.0891	.3021
15	Ni2316	.1944	.9654	.0024	.9648	.0330	.2183
16	2203/1	.2044	.9891	.0022	.9883	.0622	.1996
17	2203/2	.1983	1.013	-.0044	.9970	.0089	.2092
18	1960/1	.2024	1.007	-.0061	.9993	.0315	.1840
19	1960/2	.2007	1.008	-.0054	1.004	-.0247	.2176
20	Sb2068	.1979	.9524	.0009	.9571	-.0191	.2011
21	Sn1899	.2089	1.016	L-.0029	2.050	.0057	.2190
22	Tl1908	.2064	Q1.064	.0014	1.045	-.0049	.2243
23	V_2924	.1972	.9786	.0015	.9766	.0131	.2059
24	Zn2062	.2017	1.002	-.0003	1.001	.0049	.2188
25	Pb2203	.2028	.9976	.0004	.9916	.0465	.2038
26	Se1960	.2022	1.008	L-.0055	1.001	.0147	.1960

#	Element	icv 1	icv 2	icb	ss i	ss i low	ics a
1	Ag3280	.2034	1.025	.0005	Q.0018	.0006	.0004
2	Al3082	Q.4340	Q1.171	H.2898	Q.2939	.2697	47.79
3	As1890	.1961	1.009	L-.0171	Q.0284	Q-.0055	Q-.0194
4	Ba4934	.1936	.9635	.0001	.0391	.0107	.0002
5	Be3130	Q.2149	Q1.061	-.0000	Q.0012	.0004	.0001
6	Ca3179	Q.2245	.9761	-.0075	.0595	.0276	49.24
7	Cd2265	.1934	.9559	-.0008	Q.0004	.0004	.0023
8	Co2286	.1958	.9824	-.0014	.0113	Q.0014	-.0008
9	Cr2677	.2070	.9977	.0019	Q.0607	Q.0020	.0001
10	Cu3247	Q.1867	.9683	L-.0060	Q-.0010	-.0059	Q.0231
11	Fe2714	Q.2764	Q1.120	-.0028	Q.3765	.0202	52.10
12	K_7664	Q1.884	Q8.271	H.3176	.0345	.2417	Q.4416
13	Mg2790	.1892	Q.9086	.0021	-.0065	-.0044	48.63
14	Mn2576	.1952	.9713	.0000	Q.0153	.0028	.0013
15	Ni2316	.1998	.9600	.0013	Q.0440	Q.0037	.0023
16	2203/1	.2002	.9851	.0028	.0097	.0074	.0343
17	2203/2	.1983	1.000	.0001	.0116	.0043	.0001
18	1960/1	.2042	1.013	-.0017	.0440	.0045	.0051
19	1960/2	.2028	1.008	-.0005	.0464	.0114	.0088
20	Sb2068	.1945	.9555	H.0039	Q.0128	.0064	.0128
21	Sn1899	.2098	1.008	.0016	-.0004	-.0010	.0068
22	Tl1908	Q.2121	1.050	-.0006	.0350	Q.0039	Q.0310
23	V_2924	.1963	.9733	.0015	Q.0138	Q.0048	.0031
24	Zn2062	.2023	1.005	-.0003	.0106	.0022	.0021
25	Pb2203	.2000	.9907	.0024	.0108	Q.0068	Q.0234
26	Se1960	.2041	1.012	-.0009	.0452	Q.0072	.0065

#	Element	ics ab
1	Ag3280	.3209
2	Al3082	48.70
3	As1890	1.013
4	Ba4934	.2970
5	Be3130	.1055
6	Ca3179	49.87
7	Cd2265	.2970
8	Co2286	.3001
9	Cr2677	.3054
10	Cu3247	.3365
11	Fe2714	52.93
12	K_7664	Q27.90
13	Mg2790	49.67
14	Mn2576	.2020
15	Ni2316	.2952
16	2203/1	1.051
17	2203/2	1.034
18	1960/1	.5142
19	1960/2	.5203
20	Sb2068	.9755
21	Sn1899	1.026
22	Tl1908	1.110
23	V_2924	.3013

#	Element	ics	ab				
24	Zn2062	.3040					
25	Pb2203	1.046					
26	Se1960	.5164					

ACCURA ANALYTICAL LABORATORY, INC.
6017 Financial Drive, Norcross, Georgia, 30071, Phone (770) 449-8800

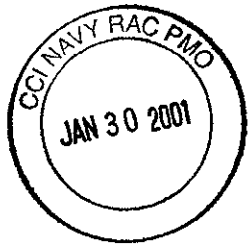
CASE NARRATIVE for Project Number: 26563
Client Project: NAS Cecil Field 103rd Street GW Sampling / 154282 / CTO - 0029

LOC - 154282 - 09

The following items were noted concerning this project:

1. The following samples were received at Accura Analytical Laboratory on 12/21/00 at 1100.

Client I.D.	Laboratory I.D.
029-SMW01-Q4-00-07	AC05535
029-SMW02-Q4-00-07	AC05536
029-SMW03-Q4-00-07	AC05537
029-SMW07-Q4-00-07	AC05538
029-SMW10-Q4-00-07	AC05539
029-SMW11-Q4-00-07	AC05540
029-DUP-Q4-00-07	AC05541
029-EQB-Q4-00-07	AC05542
Trip Blank	AC05543



2. The sample cooler temperature was noted to be 2^0C upon receipt.

3. The pH for the samples for the VOC analysis was noted at <2.0 prior to analysis.

4. The J values noted for the FL-PRO and VOC analyses indicate estimated values where the compounds are present at concentrations that are less than the quantitation limits, but above the method detection limits.

5. The B values noted for the FL-PRO and VOC analyses indicate that the compounds are present in the blank and in the samples, and the results should be considered estimated due to blank contamination.

6. The PAH by HPLC analysis was performed by a subcontract laboratory.

7. TICS were detected for the VOC analysis for sample 029-SW07-Q4-00-07.

8. The following samples required dilution due to high analyte concentration, resulting in elevated detection limits:

VOC – SW-846-8260B	FL-PRO
029-SMW11-Q4-00-07 (1,2,4-Trimethylbenzene)	029-SMW11-Q4-00-07

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9. The detection limits are elevated for the following sample due to limited sample volume:

PAH by HPLC – SW-846-8310
029-SW07-Q4-00-07

10. The following surrogates were outside the method specified limits :

FL-PRO

Nonatriacontane (C39) -	029-SWM01-Q4-00-07
	029-SWM02-Q4-00-07
	029-SWM03-Q4-00-07
	029-SWM07-Q4-00-07
	029-SMW10-Q4-00-07
	029-SMW11-Q4-00-07
	029-DUP-Q4-00-07
	029-EQB-Q4-00-07
	Method Blank
	Laboratory Control Sample
	Matrix Spike
	Matrix Spike Duplicate
o-Terphenyl -	029-SWM01-Q4-00-07
	029-SWM02-Q4-00-07
	029-SWM07-Q4-00-07
	029-SMW10-Q4-00-07
	029-SMW11-Q4-00-07
	029-DUP-Q4-00-07
	Laboratory Control Sample
	Matrix Spike
	Matrix Spike Duplicate

All recoveries were within established in-house limits; therefore the data was accepted.

11. The following surrogate was outside the subcontract laboratory's historical limits:

PAH by HPLC – SW-846-8310
p-Terphenyl d14 - 029-SMW07-Q4-00-07

12. The Laboratory Control Sample recovery was outside the project specified limit:

FL-PRO

The results for this analysis should be considered estimated.

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13. The following spike recoveries were outside the project specified limits:

VOC – SW-846-8260B

MS -	1,2,4-Trimethylbenzene	1,2-Dibromo-3-chloropropane	n-Butylbenzene
	Naphthalene		
MSD -	1,2,4-Trimethylbenzene	1,2-Dibromo-3-chloropropane	
	1,3,5-Trimethylbenzene	n-Butylbenzene	Naphthalene

FL-PRO

MS - FL-PRO

14. The following spike recoveries were outside the subcontract laboratory's historical limit:

PAH by HPLC – SW-846-8310

MS -	Naphthalene	2-Methylnaphthalene	Phenanthrene	Anthracene
	Pyrene	Benzo(b)fluoranthene		
MSD -	Naphthalene	1-Methylnaphthalene	2-Methylnaphthalene	Acenapthene
	Phenanthrene	Anthracene	Fluoranthene	Pyrene
	Benzo(a)anthracene			

15. The relative percent difference between the matrix spike and matrix spike duplicate was outside the project specified limit for the following analytes:

VOC – SW-846-8260B

1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Ethylbenzene	
Isopropylbenzene	n-Propylbenzene	p-Isopropyltoluene	sec-Butylbenzene

FL-PRO

FL-PRO

16. The relative percent difference between the matrix spike and matrix spike duplicate was outside the subcontract laboratory's historical limit for the following analytes:

PAH by HPLC – SW-846-8310

Naphthalene	1-Methylnaphthalene	2-Methylnaphthalene	Acenapthene

17. Project Specific QC is reported for all analyses.

Quality Assurance

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LABORATORY REPORT

Accura Sample ID #: AC05535 **Accura Project #: 26563**

Client: CH2M HILL - CCI Date Sampled: 12/20/00
Client Contact: DAVID GARRITY Date Received: 12/21/00
Client Project Number: 154282 / CTO - 0029 Date Reported: 1/29/01
Client Project Name: NAS CECIL FIELD 103rd STREET GW SAMPLING Sample Matrix: WATER
Client Sample ID: 029-SMW01-Q4-00-07

ANALYSIS: Metals - Lead Method Ref: 3010A/6010B
Date Ext/Dig/Prep: 12/28/00 Date Analyzed: 1/2/01 Result Units: mg/L

Analyte Name	Analytical Results	Reported Detection Limits
Lead	0.11	0.010

ANALYSIS: PAH's by HPLC Method Ref: 8310
Date Ext/Dig/Prep: 12/26/00 Date Analyzed: 1/4/01 Result Units: ug/L

Analyte Name	Analytical Results	Reported Detection Limits
1-Methylnapthalene	<RDL	1.02
2-Methylnapthalene	<RDL	1.02
Acenaphthene	<RDL	1.02
Acenaphthylene	<RDL	2.04
Anthracene	<RDL	0.67
Benzo(a)anthracene	<RDL	0.13
Benzo(a)pyrene	<RDL	0.10
Benzo(b)fluoranthene	<RDL	0.18
Benzo(g,h,i)perylene	<RDL	0.78
Benzo(k)fluoranthene	<RDL	0.17
Chrysene	<RDL	0.15
Dibenzo(a,h)anthracene	<RDL	0.31
Fluoranthene	<RDL	0.21
Fluorene	<RDL	0.51
Indeno(1,2,3-cd)pyrene	<RDL	0.44
Naphthalene	<RDL	1.02
Phenanthrene	<RDL	0.65
Pyrene	<RDL	0.28

ANALYSIS: Petroleum Range Organics (PRO) Method Ref: FL-PRO
Date Ext/Dig/Prep: 12/26/00 Date Analyzed: 1/2/01 Result Units: mg/L

Analyte Name	Analytical Results	Reported Detection Limits
Petroleum Range Organics (PRO)	0.47JB	1.0

ANALYSIS: VOC's Navy (25 ml purge) Method Ref: 8260B
Date Ext/Dig/Prep: 12/29/00 Date Analyzed: 12/29/00 Result Units: ug/L

Analyte Name	Analytical Results	Reported Detection Limits
1,1,1,2-Tetrachloroethane	<RDL	2.5
1,1,1-Trichloroethane	<RDL	4
1,1,2,2-Tetrachloroethane	<RDL	2

1,1,2-Trichloroethane	<RDL	5
1,1-Dichloroethane	<RDL	2
1,1-Dichloroethene	<RDL	6
1,2,3-Trichlorobenzene	0.91 J	1.5
1,2,3-Trichloropropane	<RDL	16
1,2,4-Trichlorobenzene	0.57 J	2
1,2,4-Trimethylbenzene	<RDL	6.5
1,2-Dibromo-3-chloropropane	<RDL	13
1,2-Dichlorobenzene	<RDL	1.5
1,2-Dichloroethane	<RDL	3
1,2-Dichloropropane	<RDL	2
1,2-Ethylene Dibromide	<RDL	3
1,3,5-Trimethylbenzene	<RDL	2.5
1,3-Dichlorobenzene	<RDL	6
1,3-Dichloropropane	<RDL	2
1,4-Dichlorobenzene	<RDL	1.5
2,2-Dichloropropane	<RDL	17.5
2-Chlorotoluene	<RDL	2
4-Chlorotoluene	<RDL	3
Benzene	<RDL	2
Bromobenzene	<RDL	1.5
Bromochloromethane	<RDL	2
Bromodichloromethane	<RDL	4
Bromoform	<RDL	6
Bromomethane	<RDL	5.5
Carbon tetrachloride	<RDL	10.5
Chlorobenzene	<RDL	2
Chloroethane	<RDL	5
Chloroform	<RDL	1.5
Chloromethane	<RDL	6.5
cis-1,2-Dichloroethene	<RDL	6
cis-1,3-Dichloropropene	<RDL	5
Dibromochloromethane	<RDL	2.5
Dibromomethane	<RDL	12
Dichlorodifluoromethane	<RDL	5
Ethylbenzene	<RDL	3
Hexachlorobutadiene	<RDL	5.5
Isopropylbenzene	<RDL	2.5
Methylene chloride	<RDL	1.5
n-Butylbenzene	<RDL	5.5
n-Propylbenzene	<RDL	2
Naphthalene	2.0 JB	2
p-Isopropyltoluene	<RDL	6
Sec-Butylbenzene	<RDL	6.5
Styrene	<RDL	2
Tert-Butylbenzene	<RDL	7
Tetrachloroethylene	<RDL	7
Toluene	<RDL	5.5
Total Xylenes	<RDL	5
trans-1,2-Dichloroethene	<RDL	3
trans-1,3-Dichloropropene	<RDL	5
Trichloroethylene	<RDL	5

Trichlorofluoromethane	<RDL	4
Vinyl chloride	<RDL	5.5

ANALYSIS: X PAH Surrogates (Liquid) Method Ref: 8310

Date Ext/Dig/Prep: 12/26/00 Date Analyzed: 1/4/01 Result Units: %

Analyte Name	Analytical Results	Reported Detection Limits
p-terphenyl d14 (Range 20-140)	30	

ANALYSIS: X PRO Sample Surrogates (Water) Method Ref: FL-PRO

Date Ext/Dig/Prep: 12/26/00 Date Analyzed: 1/2/01 Result Units: %

Analyte Name	Analytical Results	Reported Detection Limits
C(39) (Range 42-193)	15	
o-Terphenyl (Range 82-142)	59	

ANALYSIS: X VOC Sample Surrogates-Waters Method Ref: 5030B/8260B

Date Ext/Dig/Prep: 12/29/00 Date Analyzed: 12/29/00 Result Units: %

Analyte Name	Analytical Results	Reported Detection Limits
1,2-Dichloroethane-d4 (78-128)	82	
4-Bromofluorobenzene (86-112)	94	
Toluene-d8 (84-108)	92	

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LABORATORY REPORT

Accura Sample ID #: AC05536 **Accura Project #: 26563**

Client: CH2M HILL - CCI Date Sampled: 12/20/00

Client Contact: DAVID GARRITY Date Received: 12/21/00

Client Project Number: 154282 / CTO - 0029 Date Reported: 1/29/01

Client Project Name: NAS CECIL FIELD 103rd STREET GW SAMPLING Sample Matrix: WATER

Client Sample ID: 029-SMW02-Q4-00-07

ANALYSIS: Metals - Lead Method Ref: 3010A/6010B

Date Ext/Dig/Prep: 12/28/00 Date Analyzed: 1/2/01 Result Units: mg/L

Analyte Name	Analytical Results	Reported Detection Limits
Lead	0.17	0.010

ANALYSIS: PAH's by HPLC Method Ref: 8310

Date Ext/Dig/Prep: 12/26/00 Date Analyzed: 1/4/01 Result Units: ug/L

Analyte Name	Analytical Results	Reported Detection Limits
1-Methylnapthalene	<RDL	1.01
2-Methylnapthalene	<RDL	1.01
Acenaphthene	<RDL	1.01
Acenaphthylene	<RDL	2.02
Anthracene	<RDL	0.67
Benzo(a)anthracene	<RDL	0.13
Benzo(a)pyrene	<RDL	0.10
Benzo(b)fluoranthene	<RDL	0.18
Benzo(g,h,i)perylene	<RDL	0.77
Benzo(k)fluoranthene	<RDL	0.17
Chrysene	<RDL	0.15
Dibenzo(a,h)anthracene	<RDL	0.30
Fluoranthene	<RDL	0.21
Fluorene	<RDL	0.51
Indeno(1,2,3-cd)pyrene	<RDL	0.43
Naphthalene	<RDL	1.01
Phenanthrene	<RDL	0.65
Pyrene	<RDL	0.27

ANALYSIS: Petroleum Range Organics (PRO) Method Ref: FL-PRO

Date Ext/Dig/Prep: 12/26/00 Date Analyzed: 1/2/01 Result Units: mg/L

Analyte Name	Analytical Results	Reported Detection Limits
Petroleum Range Organics (PRO)	0.58JB	1.0

ANALYSIS: VOC's Navy (25 ml purge) Method Ref: 8260B

Date Ext/Dig/Prep: 12/30/00 Date Analyzed: 12/30/00 Result Units: ug/L

Analyte Name	Analytical Results	Reported Detection Limits
1,1,1,2-Tetrachloroethane	<RDL	2.5
1,1,1-Trichloroethane	<RDL	4
1,1,2,2-Tetrachloroethane	<RDL	2

1,1,2-Trichloroethane	<RDL	5
1,1-Dichloroethane	<RDL	2
1,1-Dichloroethene	<RDL	6
1,2,3-Trichlorobenzene	<RDL	1.5
1,2,3-Trichloropropane	<RDL	16
1,2,4-Trichlorobenzene	<RDL	2
1,2,4-Trimethylbenzene	0.64 J	6.5
1,2-Dibromo-3-chloropropane	<RDL	13
1,2-Dichlorobenzene	<RDL	1.5
1,2-Dichloroethane	<RDL	3
1,2-Dichloropropane	<RDL	2
1,2-Ethylene Dibromide	<RDL	3
1,3,5-Trimethylbenzene	<RDL	2.5
1,3-Dichlorobenzene	<RDL	6
1,3-Dichloropropane	<RDL	2
1,4-Dichlorobenzene	<RDL	1.5
2,2-Dichloropropane	<RDL	17.5
2-Chlorotoluene	<RDL	2
4-Chlorotoluene	<RDL	3
Benzene	<RDL	2
Bromobenzene	<RDL	1.5
Bromochloromethane	<RDL	2
Bromodichloromethane	<RDL	4
Bromoform	<RDL	6
Bromomethane	<RDL	5.5
Carbon tetrachloride	<RDL	10.5
Chlorobenzene	<RDL	2
Chloroethane	<RDL	5
Chloroform	<RDL	1.5
Chloromethane	<RDL	6.5
cis-1,2-Dichloroethene	<RDL	6
cis-1,3-Dichloropropene	<RDL	5
Dibromochloromethane	<RDL	2.5
Dibromomethane	<RDL	12
Dichlorodifluoromethane	<RDL	5
Ethylbenzene	<RDL	3
Hexachlorobutadiene	<RDL	5.5
Isopropylbenzene	<RDL	2.5
Methylene chloride	<RDL	1.5
n-Butylbenzene	<RDL	5.5
n-Propylbenzene	<RDL	2
Naphthalene	1.5 JB	2
p-Isopropyltoluene	<RDL	6
Sec-Butylbenzene	<RDL	6.5
Styrene	<RDL	2
Tert-Butylbenzene	<RDL	7
Tetrachloroethylene	<RDL	7
Toluene	<RDL	5.5
Total Xylenes	<RDL	5
trans-1,2-Dichloroethene	<RDL	3
trans-1,3-Dichloropropene	<RDL	5
Trichloroethylene	<RDL	5

Trichlorofluoromethane	<RDL	4
Vinyl chloride	<RDL	5.5

ANALYSIS: X PAH Surrogates (Liquid) Method Ref: 8310

Date Ext/Dig/Prep: 12/26/00 Date Analyzed: 1/4/01 Result Units: %

Analyte Name	Analytical Results	Reported Detection Limits
p-terphenyl d14 (Range 20-140)	33	

ANALYSIS: X PRO Sample Surrogates (Water) Method Ref: FL-PRO

Date Ext/Dig/Prep: 12/26/00 Date Analyzed: 1/2/01 Result Units: %

Analyte Name	Analytical Results	Reported Detection Limits
C(39) (Range 42-193)	6	
o-Terphenyl (Range 82-142)	61	

ANALYSIS: X VOC Sample Surrogates-Waters Method Ref: 5030B/8260B

Date Ext/Dig/Prep: 12/30/00 Date Analyzed: 12/30/00 Result Units: %

Analyte Name	Analytical Results	Reported Detection Limits
1,2-Dichloroethane-d4 (78-128)	85	
4-Bromofluorobenzene (86-112)	93	
Toluene-d8 (84-108)	96	

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LABORATORY REPORT

Accura Sample ID #: AC05537 **Accura Project #: 26563**

Client: CH2M HILL - CCI Date Sampled: 12/20/00

Client Contact: DAVID GARRITY Date Received: 12/21/00

Client Project Number: 154282 / CTO - 0029 Date Reported: 1/29/01

Client Project Name: NAS CECIL FIELD 103rd STREET GW SAMPLING Sample Matrix: WATER

Client Sample ID: 029-SMW03-Q4-00-07

ANALYSIS: Metals - Lead Method Ref: 3010A/6010B

Date Ext/Dig/Prep: 12/28/00 Date Analyzed: 1/2/01 Result Units: mg/L

Analyte Name	Analytical Results	Reported Detection Limits
Lead	<RDL	0.010

ANALYSIS: PAH's by HPLC Method Ref: 8310

Date Ext/Dig/Prep: 12/26/00 Date Analyzed: 1/4/01 Result Units: ug/L

Analyte Name	Analytical Results	Reported Detection Limits
1-Methylnapthalene	<RDL	1.02
2-Methylnapthalene	<RDL	1.02
Acenaphthene	<RDL	1.02
Acenaphthylene	<RDL	2.04
Anthracene	<RDL	0.67
Benzo(a)anthracene	<RDL	0.13
Benzo(a)pyrene	<RDL	0.10
Benzo(b)fluoranthene	<RDL	0.18
Benzo(g,h,i)perylene	<RDL	0.78
Benzo(k)fluoranthene	<RDL	0.17
Chrysene	<RDL	0.15
Dibenzo(a,h)anthracene	<RDL	0.31
Fluoranthene	<RDL	0.21
Fluorene	<RDL	0.51
Indeno(1,2,3-cd)pyrene	<RDL	0.44
Naphthalene	<RDL	1.02
Phenanthrene	<RDL	0.65
Pyrene	<RDL	0.28

ANALYSIS: Petroleum Range Organics (PRO) Method Ref: FL-PRO

Date Ext/Dig/Prep: 12/26/00 Date Analyzed: 1/3/01 Result Units: mg/L

Analyte Name	Analytical Results	Reported Detection Limits
Petroleum Range Organics (PRO)	0.44JB	1.0

ANALYSIS: VOC's Navy (25 ml purge) Method Ref: 8260B

Date Ext/Dig/Prep: 12/29/00 Date Analyzed: 12/29/00 Result Units: ug/L

Analyte Name	Analytical Results	Reported Detection Limits
1,1,1,2-Tetrachloroethane	<RDL	2.5
1,1,1-Trichloroethane	<RDL	4
1,1,2,2-Tetrachloroethane	<RDL	2

1,1,2-Trichloroethane	<RDL	5
1,1-Dichloroethane	<RDL	2
1,1-Dichloroethene	<RDL	6
1,2,3-Trichlorobenzene	<RDL	1.5
1,2,3-Trichloropropane	<RDL	16
1,2,4-Trichlorobenzene	<RDL	2
1,2,4-Trimethylbenzene	<RDL	6.5
1,2-Dibromo-3-chloropropane	<RDL	13
1,2-Dichlorobenzene	<RDL	1.5
1,2-Dichloroethane	<RDL	3
1,2-Dichloropropane	<RDL	2
1,2-Ethylene Dibromide	<RDL	3
1,3,5-Trimethylbenzene	<RDL	2.5
1,3-Dichlorobenzene	<RDL	6
1,3-Dichloropropane	<RDL	2
1,4-Dichlorobenzene	<RDL	1.5
2,2-Dichloropropane	<RDL	17.5
2-Chlorotoluene	<RDL	2
4-Chlorotoluene	<RDL	3
Benzene	<RDL	2
Bromobenzene	<RDL	1.5
Bromochloromethane	<RDL	2
Bromodichloromethane	<RDL	4
Bromoform	<RDL	6
Bromomethane	<RDL	5.5
Carbon tetrachloride	<RDL	10.5
Chlorobenzene	<RDL	2
Chloroethane	<RDL	5
Chloroform	<RDL	1.5
Chloromethane	<RDL	6.5
cis-1,2-Dichloroethene	<RDL	6
cis-1,3-Dichloropropene	<RDL	5
Dibromochloromethane	<RDL	2.5
Dibromomethane	<RDL	12
Dichlorodifluoromethane	<RDL	5
Ethylbenzene	<RDL	3
Hexachlorobutadiene	<RDL	5.5
Isopropylbenzene	<RDL	2.5
Methylene chloride	<RDL	1.5
n-Butylbenzene	<RDL	5.5
n-Propylbenzene	<RDL	2
Naphthalene	1.4 JB	2
p-Isopropyltoluene	<RDL	6
Sec-Butylbenzene	<RDL	6.5
Styrene	<RDL	2
Tert-Butylbenzene	<RDL	7
Tetrachloroethylene	<RDL	7
Toluene	<RDL	5.5
Total Xylenes	<RDL	5
trans-1,2-Dichloroethene	<RDL	3
trans-1,3-Dichloropropene	<RDL	5
Trichloroethylene	<RDL	5

Trichlorofluoromethane	<RDL	4
Vinyl chloride	<RDL	5.5

ANALYSIS: X PAH Surrogates (Liquid) Method Ref: 8310

Date Ext/Dig/Prep: 12/26/00 Date Analyzed: 1/4/01 Result Units: %

Analyte Name	Analytical Results	Reported Detection Limits
p-terphenyl d14 (Range 20-140)	53	

ANALYSIS: X PRO Sample Surrogates (Water) Method Ref: FL-PRO

Date Ext/Dig/Prep: 12/26/00 Date Analyzed: 1/3/01 Result Units: %

Analyte Name	Analytical Results	Reported Detection Limits
C(39) (Range 42-193)	10	
o-Terphenyl (Range 82-142)	89	

ANALYSIS: X VOC Sample Surrogates-Waters Method Ref: 5030B/8260B

Date Ext/Dig/Prep: 12/29/00 Date Analyzed: 12/29/00 Result Units: %

Analyte Name	Analytical Results	Reported Detection Limits
1,2-Dichloroethane-d4 (78-128)	98	
4-Bromofluorobenzene (86-112)	98	
Toluene-d8 (84-108)	92	

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LABORATORY REPORT

Accura Sample ID #: AC05538 **Accura Project #: 26563**

Client: CH2M HILL - CCI Date Sampled: 12/20/00

Client Contact: DAVID GARRITY Date Received: 12/21/00

Client Project Number: 154282 / CTO - 0029 Date Reported: 1/29/01

Client Project Name: NAS CECIL FIELD 103rd STREET GW SAMPLING Sample Matrix: WATER

Client Sample ID: 029-SMW07-Q4-00-07

ANALYSIS: Metals - Lead Method Ref: 3010A/6010B

Date Ext/Dig/Prep: 12/28/00 Date Analyzed: 1/2/01 Result Units: mg/L

Analyte Name	Analytical Results	Reported Detection Limits
Lead	0.17	0.010

ANALYSIS: PAH's by HPLC Method Ref: 8310

Date Ext/Dig/Prep: 12/26/00 Date Analyzed: 1/4/01 Result Units: ug/L

Analyte Name	Analytical Results	Reported Detection Limits
1-Methylnapthalene	<RDL	11.1
2-Methylnapthalene	<RDL	11.1
Acenaphthene	<RDL	11.1
Acenaphthylene	<RDL	22.2
Anthracene	<RDL	7.33
Benzo(a)anthracene	<RDL	1.44
Benzo(a)pyrene	<RDL	1.11
Benzo(b)fluoranthene	<RDL	2.00
Benzo(g,h,i)perylene	<RDL	8.44
Benzo(k)fluoranthene	<RDL	1.89
Chrysene	<RDL	1.67
Dibenzo(a,h)anthracene	<RDL	3.33
Fluoranthene	<RDL	2.33
Fluorene	<RDL	5.56
Indeno(1,2,3-cd)pyrene	<RDL	4.78
Naphthalene	<RDL	11.1
Phenanthrene	<RDL	7.11
Pyrene	<RDL	3.00

ANALYSIS: Petroleum Range Organics (PRO) Method Ref: FL-PRO

Date Ext/Dig/Prep: 12/26/00 Date Analyzed: 1/2/01 Result Units: mg/L

Analyte Name	Analytical Results	Reported Detection Limits
Petroleum Range Organics (PRO)	0.67JB	1.0

ANALYSIS: VOC's Navy (25 ml purge) Method Ref: 8260B

Date Ext/Dig/Prep: 12/29/00 Date Analyzed: 12/29/00 Result Units: ug/L

Analyte Name	Analytical Results	Reported Detection Limits
1,1,1,2-Tetrachloroethane	<RDL	2.5
1,1,1-Trichloroethane	<RDL	4
1,1,2,2-Tetrachloroethane	<RDL	2

1,1,2-Trichloroethane	<RDL	5
1,1-Dichloroethane	<RDL	2
1,1-Dichloroethene	<RDL	6
1,2,3-Trichlorobenzene	<RDL	1.5
1,2,3-Trichloropropane	<RDL	16
1,2,4-Trichlorobenzene	<RDL	2
1,2,4-Trimethylbenzene	<RDL	6.5
1,2-Dibromo-3-chloropropane	<RDL	13
1,2-Dichlorobenzene	<RDL	1.5
1,2-Dichloroethane	<RDL	3
1,2-Dichloropropane	<RDL	2
1,2-Ethylene Dibromide	<RDL	3
1,3,5-Trimethylbenzene	<RDL	2.5
1,3-Dichlorobenzene	<RDL	6
1,3-Dichloropropane	<RDL	2
1,4-Dichlorobenzene	<RDL	1.5
2,2-Dichloropropane	<RDL	17.5
2-Chlorotoluene	<RDL	2
4-Chlorotoluene	<RDL	3
Benzene	<RDL	2
Bromobenzene	<RDL	1.5
Bromochloromethane	<RDL	2
Bromodichloromethane	<RDL	4
Bromoform	<RDL	6
Bromomethane	<RDL	5.5
Carbon tetrachloride	<RDL	10.5
Chlorobenzene	<RDL	2
Chloroethane	<RDL	5
Chloroform	<RDL	1.5
Chloromethane	<RDL	6.5
cis-1,2-Dichloroethene	<RDL	6
cis-1,3-Dichloropropene	<RDL	5
Dibromochloromethane	<RDL	2.5
Dibromomethane	<RDL	12
Dichlorodifluoromethane	<RDL	5
Ethylbenzene	<RDL	3
Hexachlorobutadiene	<RDL	5.5
Isopropylbenzene	<RDL	2.5
Methylene chloride	<RDL	1.5
n-Butylbenzene	<RDL	5.5
n-Propylbenzene	<RDL	2
Naphthalene	1.1 JB	2
p-Isopropyltoluene	<RDL	6
Sec-Butylbenzene	<RDL	6.5
Styrene	<RDL	2
Tert-Butylbenzene	<RDL	7
Tetrachloroethylene	<RDL	7
Toluene	<RDL	5.5
Total Xylenes	<RDL	5
trans-1,2-Dichloroethene	<RDL	3
trans-1,3-Dichloropropene	<RDL	5
Trichloroethylene	<RDL	5

Trichlorofluoromethane	<RDL	4
Vinyl chloride	<RDL	5.5

ANALYSIS: X PAH Surrogates (Liquid) Method Ref: 8310

Date Ext/Dig/Prep: 12/26/00 Date Analyzed: 1/4/01 Result Units: %

Analyte Name	Analytical Results	Reported Detection Limits
p-terphenyl d14 (Range 20-140)	19	

ANALYSIS: X PRO Sample Surrogates (Water) Method Ref: FL-PRO

Date Ext/Dig/Prep: 12/26/00 Date Analyzed: 1/2/01 Result Units: %

Analyte Name	Analytical Results	Reported Detection Limits
C(39) (Range 42-193)	16	
o-Terphenyl (Range 82-142)	35	

ANALYSIS: X VOC Sample Surrogates-Waters Method Ref: 5030B/8260B

Date Ext/Dig/Prep: 12/29/00 Date Analyzed: 12/29/00 Result Units: %

Analyte Name	Analytical Results	Reported Detection Limits
1,2-Dichloroethane-d4 (78-128)	95	
4-Bromofluorobenzene (86-112)	96	
Toluene-d8 (84-108)	94	

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LABORATORY REPORT

Accura Sample ID #: AC05539 **Accura Project #: 26563**

Client: CH2M HILL - CCI Date Sampled: 12/20/00

Client Contact: DAVID GARRITY Date Received: 12/21/00

Client Project Number: 154282 / CTO - 0029 Date Reported: 1/29/01

Client Project Name: NAS CECIL FIELD 103rd STREET GW SAMPLING Sample Matrix: WATER

Client Sample ID: 029-SMW10-Q4-00-07

ANALYSIS: Metals - Lead Method Ref: 3010A/6010B

Date Ext/Dig/Prep: 12/28/00 Date Analyzed: 1/2/01 Result Units: mg/L

Analyte Name	Analytical Results	Reported Detection Limits
Lead	0.34	0.010

ANALYSIS: PAH's by HPLC Method Ref: 8310

Date Ext/Dig/Prep: 12/26/00 Date Analyzed: 1/4/01 Result Units: ug/L

Analyte Name	Analytical Results	Reported Detection Limits
1-Methylnapthalene	<RDL	1.01
2-Methylnapthalene	<RDL	1.01
Acenaphthene	<RDL	1.01
Acenaphthylene	<RDL	2.02
Anthracene	<RDL	0.67
Benzo(a)anthracene	<RDL	0.13
Benzo(a)pyrene	<RDL	0.10
Benzo(b)fluoranthene	<RDL	0.18
Benzo(g,h,i)perylene	<RDL	0.77
Benzo(k)fluoranthene	<RDL	0.17
Chrysene	<RDL	0.15
Dibenzo(a,h)anthracene	<RDL	0.30
Fluoranthene	<RDL	0.21
Fluorene	<RDL	0.51
Indeno(1,2,3-cd)pyrene	<RDL	0.43
Naphthalene	<RDL	1.01
Phenanthrene	<RDL	0.65
Pyrene	<RDL	0.27

ANALYSIS: Petroleum Range Organics (PRO) Method Ref: FL-PRO

Date Ext/Dig/Prep: 12/26/00 Date Analyzed: 1/2/01 Result Units: mg/L

Analyte Name	Analytical Results	Reported Detection Limits
Petroleum Range Organics (PRO)	0.39JB	1.0

ANALYSIS: VOC's Navy (25 ml purge) Method Ref: 8260B

Date Ext/Dig/Prep: 12/29/00 Date Analyzed: 12/29/00 Result Units: ug/L

Analyte Name	Analytical Results	Reported Detection Limits
1,1,1,2-Tetrachloroethane	<RDL	2.5
1,1,1-Trichloroethane	<RDL	4
1,1,2,2-Tetrachloroethane	<RDL	2

1,1,2-Trichloroethane	<RDL	5
1,1-Dichloroethane	<RDL	2
1,1-Dichloroethene	<RDL	6
1,2,3-Trichlorobenzene	<RDL	1.5
1,2,3-Trichloropropane	<RDL	16
1,2,4-Trichlorobenzene	<RDL	2
1,2,4-Trimethylbenzene	<RDL	6.5
1,2-Dibromo-3-chloropropane	<RDL	13
1,2-Dichlorobenzene	<RDL	1.5
1,2-Dichloroethane	<RDL	3
1,2-Dichloropropane	<RDL	2
1,2-Ethylene Dibromide	<RDL	3
1,3,5-Trimethylbenzene	<RDL	2.5
1,3-Dichlorobenzene	<RDL	6
1,3-Dichloropropane	<RDL	2
1,4-Dichlorobenzene	<RDL	1.5
2,2-Dichloropropane	<RDL	17.5
2-Chlorotoluene	<RDL	2
4-Chlorotoluene	<RDL	3
Benzene	<RDL	2
Bromobenzene	<RDL	1.5
Bromochloromethane	<RDL	2
Bromodichloromethane	<RDL	4
Bromoform	<RDL	6
Bromomethane	<RDL	5.5
Carbon tetrachloride	<RDL	10.5
Chlorobenzene	<RDL	2
Chloroethane	<RDL	5
Chloroform	<RDL	1.5
Chloromethane	<RDL	6.5
cis-1,2-Dichloroethene	<RDL	6
cis-1,3-Dichloropropene	<RDL	5
Dibromochloromethane	<RDL	2.5
Dibromomethane	<RDL	12
Dichlorodifluoromethane	<RDL	5
Ethylbenzene	<RDL	3
Hexachlorobutadiene	<RDL	5.5
Isopropylbenzene	<RDL	2.5
Methylene chloride	<RDL	1.5
n-Butylbenzene	<RDL	5.5
n-Propylbenzene	<RDL	2
Naphthalene	1.0 JB	2
p-Isopropyltoluene	<RDL	6
Sec-Butylbenzene	<RDL	6.5
Styrene	<RDL	2
Tert-Butylbenzene	<RDL	7
Tetrachloroethylene	<RDL	7
Toluene	<RDL	5.5
Total Xylenes	<RDL	5
trans-1,2-Dichloroethene	<RDL	3
trans-1,3-Dichloropropene	<RDL	5
Trichloroethylene	<RDL	5

Trichlorofluoromethane	<RDL	4
Vinyl chloride	<RDL	5.5

ANALYSIS: X PAH Surrogates (Liquid) Method Ref: 8310

Date Ext/Dig/Prep: 12/26/00 Date Analyzed: 1/4/01 Result Units: %

Analyte Name	Analytical Results	Reported Detection Limits
p-terphenyl d14 (Range 20-140)	52	

ANALYSIS: X PRO Sample Surrogates (Water) Method Ref: FL-PRO

Date Ext/Dig/Prep: 12/26/00 Date Analyzed: 1/2/01 Result Units: %

Analyte Name	Analytical Results	Reported Detection Limits
C(39) (Range 42-193)	6	
o-Terphenyl (Range 82-142)	57	

ANALYSIS: X VOC Sample Surrogates-Waters Method Ref: 5030B/8260B

Date Ext/Dig/Prep: 12/29/00 Date Analyzed: 12/29/00 Result Units: %

Analyte Name	Analytical Results	Reported Detection Limits
1,2-Dichloroethane-d4 (78-128)	87	
4-Bromofluorobenzene (86-112)	95	
Toluene-d8 (84-108)	93	

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LABORATORY REPORT

Accura Sample ID #: AC05540 **Accura Project #: 26563**

Client: CH2M HILL - CCI Date Sampled: 12/20/00

Client Contact: DAVID GARRITY Date Received: 12/21/00

Client Project Number: 154282 / CTO - 0029 Date Reported: 1/29/01

Client Project Name: NAS CECIL FIELD 103rd STREET GW SAMPLING Sample Matrix: WATER

Client Sample ID: 029-SMW11-Q4-00-07

ANALYSIS: Metals - Lead Method Ref: 3010A/6010B

Date Ext/Dig/Prep: 1/3/01 Date Analyzed: 1/4/01 Result Units: mg/L

Analyte Name	Analytical Results	Reported Detection Limits
Lead	0.14	0.010

ANALYSIS: PAH's by HPLC Method Ref: 8310

Date Ext/Dig/Prep: 12/26/00 Date Analyzed: 1/4/01 Result Units: ug/L

Analyte Name	Analytical Results	Reported Detection Limits
1-Methylnapthalene	6	1.01
2-Methylnapthalene	5	1.01
Acenaphthene	<RDL	1.01
Acenaphthylene	<RDL	2.02
Anthracene	<RDL	0.67
Benzo(a)anthracene	<RDL	0.13
Benzo(a)pyrene	<RDL	0.10
Benzo(b)fluoranthene	<RDL	0.18
Benzo(g,h,i)perylene	<RDL	0.77
Benzo(k)fluoranthene	<RDL	0.17
Chrysene	<RDL	0.15
Dibenzo(a,h)anthracene	<RDL	0.30
Fluoranthene	<RDL	0.21
Fluorene	<RDL	0.51
Indeno(1,2,3-cd)pyrene	<RDL	0.43
Naphthalene	11	1.01
Phenanthrene	<RDL	0.65
Pyrene	<RDL	0.27

ANALYSIS: Petroleum Range Organics (PRO) Method Ref: FL-PRO

Date Ext/Dig/Prep: 12/26/00 Date Analyzed: 1/3/01 Result Units: mg/L

Analyte Name	Analytical Results	Reported Detection Limits
Petroleum Range Organics (PRO)	15	5.0

ANALYSIS: VOC's Navy (25 ml purge) Method Ref: 8260B

Date Ext/Dig/Prep: 12/29/00 Date Analyzed: 12/29/00 Result Units: ug/L

Analyte Name	Analytical Results	Reported Detection Limits
1,1,1,2-Tetrachloroethane	<RDL	2.5
1,1,1-Trichloroethane	<RDL	4
1,1,2,2-Tetrachloroethane	<RDL	2

1,1,2-Trichloroethane	<RDL	5
1,1-Dichloroethane	<RDL	2
1,1-Dichloroethene	<RDL	6
1,2,3-Trichlorobenzene	1.2 J	1.5
1,2,3-Trichloropropane	<RDL	16
1,2,4-Trichlorobenzene	0.78 J	2
1,2,4-Trimethylbenzene	87	33
1,2-Dibromo-3-chloropropane	<RDL	13
1,2-Dichlorobenzene	<RDL	1.5
1,2-Dichloroethane	<RDL	3
1,2-Dichloropropane	<RDL	2
1,2-Ethylene Dibromide	<RDL	3
1,3,5-Trimethylbenzene	22	2.5
1,3-Dichlorobenzene	<RDL	6
1,3-Dichloropropane	<RDL	2
1,4-Dichlorobenzene	<RDL	1.5
2,2-Dichloropropane	<RDL	17.5
2-Chlorotoluene	<RDL	2
4-Chlorotoluene	<RDL	3
Benzene	<RDL	2
Bromobenzene	<RDL	1.5
Bromochloromethane	<RDL	2
Bromodichloromethane	<RDL	4
Bromoform	<RDL	6
Bromomethane	<RDL	5.5
Carbon tetrachloride	<RDL	10.5
Chlorobenzene	<RDL	2
Chloroethane	<RDL	5
Chloroform	<RDL	1.5
Chloromethane	<RDL	6.5
cis-1,2-Dichloroethene	<RDL	6
cis-1,3-Dichloropropene	<RDL	5
Dibromochloromethane	<RDL	2.5
Dibromomethane	<RDL	12
Dichlorodifluoromethane	<RDL	5
Ethylbenzene	20	3
Hexachlorobutadiene	<RDL	5.5
Isopropylbenzene	8.0	2.5
Methylene chloride	<RDL	1.5
n-Butylbenzene	<RDL	5.5
n-Propylbenzene	8.3	2
Naphthalene	31 B	2
p-Isopropyltoluene	9.6	6
Sec-Butylbenzene	5.9 J	6.5
Styrene	<RDL	2
Tert-Butylbenzene	<RDL	7
Tetrachloroethylene	<RDL	7
Toluene	<RDL	5.5
Total Xylenes	10	5
trans-1,2-Dichloroethene	<RDL	3
trans-1,3-Dichloropropene	<RDL	5
Trichloroethylene	<RDL	5

Trichlorofluoromethane	<RDL	4
Vinyl chloride	<RDL	5.5

ANALYSIS: X PAH Surrogates (Liquid) Method Ref: 8310

Date Ext/Dig/Prep: 12/26/00 Date Analyzed: 1/4/01 Result Units: %

Analyte Name	Analytical Results	Reported Detection Limits
p-terphenyl d14 (Range 20-140)	37	

ANALYSIS: X PRO Sample Surrogates (Water) Method Ref: FL-PRO

Date Ext/Dig/Prep: 12/26/00 Date Analyzed: 1/3/01 Result Units: %

Analyte Name	Analytical Results	Reported Detection Limits
C(39) (Range 42-193)	18	
o-Terphenyl (Range 82-142)	57	

ANALYSIS: X VOC Sample Surrogates-Waters Method Ref: 5030B/8260B

Date Ext/Dig/Prep: 12/29/00 Date Analyzed: 12/29/00 Result Units: %

Analyte Name	Analytical Results	Reported Detection Limits
1,2-Dichloroethane-d4 (78-128)	88	
4-Bromofluorobenzene (86-112)	100	
Toluene-d8 (84-108)	94	

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LABORATORY REPORT

Accura Sample ID #: AC05541 **Accura Project #: 26563**

Client: CH2M HILL - CCI Date Sampled: 12/20/00

Client Contact: DAVID GARRITY Date Received: 12/21/00

Client Project Number: 154282 / CTO - 0029 Date Reported: 1/29/01

Client Project Name: NAS CECIL FIELD 103rd STREET GW SAMPLING Sample Matrix: WATER

Client Sample ID: 029-DUP-Q4-00-07

ANALYSIS: Metals - Lead Method Ref: 3010A/6010B

Date Ext/Dig/Prep: 12/28/00 Date Analyzed: 1/2/01 Result Units: mg/L

Analyte Name	Analytical Results	Reported Detection Limits
Lead	0.19	0.010

ANALYSIS: PAH's by HPLC Method Ref: 8310

Date Ext/Dig/Prep: 12/26/00 Date Analyzed: 1/4/01 Result Units: ug/L

Analyte Name	Analytical Results	Reported Detection Limits
1-Methylnapthalene	<RDL	1.01
2-Methylnapthalene	<RDL	1.01
Acenaphthene	<RDL	1.01
Acenaphthylene	<RDL	2.02
Anthracene	<RDL	0.67
Benzo(a)anthracene	<RDL	0.13
Benzo(a)pyrene	<RDL	0.10
Benzo(b)fluoranthene	<RDL	0.18
Benzo(g,h,i)perylene	<RDL	0.77
Benzo(k)fluoranthene	<RDL	0.17
Chrysene	<RDL	0.15
Dibenzo(a,h)anthracene	<RDL	0.30
Fluoranthene	<RDL	0.21
Fluorene	<RDL	0.51
Indeno(1,2,3-cd)pyrene	<RDL	0.43
Naphthalene	<RDL	1.01
Phenanthrene	<RDL	0.65
Pyrene	<RDL	0.27

ANALYSIS: Petroleum Range Organics (PRO) Method Ref: FL-PRO

Date Ext/Dig/Prep: 12/26/00 Date Analyzed: 1/2/01 Result Units: mg/L

Analyte Name	Analytical Results	Reported Detection Limits
Petroleum Range Organics (PRO)	0.42JB	1.0

ANALYSIS: VOC's Navy (25 ml purge) Method Ref: 8260B

Date Ext/Dig/Prep: 12/29/00 Date Analyzed: 12/29/00 Result Units: ug/L

Analyte Name	Analytical Results	Reported Detection Limits
1,1,1,2-Tetrachloroethane	<RDL	2.5
1,1,1-Trichloroethane	<RDL	4
1,1,2,2-Tetrachloroethane	<RDL	2

1,1,2-Trichloroethane	<RDL	5
1,1-Dichloroethane	<RDL	2
1,1-Dichloroethene	<RDL	6
1,2,3-Trichlorobenzene	<RDL	1.5
1,2,3-Trichloropropane	<RDL	16
1,2,4-Trichlorobenzene	<RDL	2
1,2,4-Trimethylbenzene	<RDL	6.5
1,2-Dibromo-3-chloropropane	<RDL	13
1,2-Dichlorobenzene	<RDL	1.5
1,2-Dichloroethane	<RDL	3
1,2-Dichloropropane	<RDL	2
1,2-Ethylene Dibromide	<RDL	3
1,3,5-Trimethylbenzene	<RDL	2.5
1,3-Dichlorobenzene	<RDL	6
1,3-Dichloropropane	<RDL	2
1,4-Dichlorobenzene	<RDL	1.5
2,2-Dichloropropane	<RDL	17.5
2-Chlorotoluene	<RDL	2
4-Chlorotoluene	<RDL	3
Benzene	<RDL	2
Bromobenzene	<RDL	1.5
Bromochloromethane	<RDL	2
Bromodichloromethane	<RDL	4
Bromoform	<RDL	6
Bromomethane	<RDL	5.5
Carbon tetrachloride	<RDL	10.5
Chlorobenzene	<RDL	2
Chloroethane	<RDL	5
Chloroform	<RDL	1.5
Chloromethane	<RDL	6.5
cis-1,2-Dichloroethene	<RDL	6
cis-1,3-Dichloropropene	<RDL	5
Dibromochloromethane	<RDL	2.5
Dibromomethane	<RDL	12
Dichlorodifluoromethane	<RDL	5
Ethylbenzene	<RDL	3
Hexachlorobutadiene	<RDL	5.5
Isopropylbenzene	<RDL	2.5
Methylene chloride	<RDL	1.5
n-Butylbenzene	<RDL	5.5
n-Propylbenzene	<RDL	2
Naphthalene	1.0 JB	2
p-Isopropyltoluene	<RDL	6
Sec-Butylbenzene	<RDL	6.5
Styrene	<RDL	2
Tert-Butylbenzene	<RDL	7
Tetrachloroethylene	<RDL	7
Toluene	<RDL	5.5
Total Xylenes	<RDL	5
trans-1,2-Dichloroethene	<RDL	3
trans-1,3-Dichloropropene	<RDL	5
Trichloroethylene	<RDL	5

Trichlorofluoromethane	<RDL	4
Vinyl chloride	<RDL	5.5

ANALYSIS: X PAH Surrogates (Liquid) Method Ref: 8310

Date Ext/Dig/Prep: 12/26/00 Date Analyzed: 1/4/01 Result Units: %

Analyte Name	Analytical Results	Reported Detection Limits
p-terphenyl d14 (Range 20-140)	39	

ANALYSIS: X PRO Sample Surrogates (Water) Method Ref: FL-PRO

Date Ext/Dig/Prep: 12/26/00 Date Analyzed: 1/2/01 Result Units: %

Analyte Name	Analytical Results	Reported Detection Limits
C(39) (Range 42-193)	5	
o-Terphenyl (Range 82-142)	62	

ANALYSIS: X VOC Sample Surrogates-Waters Method Ref: 5030B/8260B

Date Ext/Dig/Prep: 12/29/00 Date Analyzed: 12/29/00 Result Units: %

Analyte Name	Analytical Results	Reported Detection Limits
1,2-Dichloroethane-d4 (78-128)	89	
4-Bromofluorobenzene (86-112)	94	
Toluene-d8 (84-108)	93	

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LABORATORY REPORT

Accura Sample ID #: AC05542 **Accura Project #: 26563**

Client: CH2M HILL - CCI Date Sampled: 12/20/00

Client Contact: DAVID GARRITY Date Received: 12/21/00

Client Project Number: 154282 / CTO - 0029 Date Reported: 1/29/01

Client Project Name: NAS CECIL FIELD 103rd STREET GW SAMPLING Sample Matrix: WATER

Client Sample ID: 029-EQB-Q4-00-07

ANALYSIS: Metals - Lead Method Ref: 3010A/6010B

Date Ext/Dig/Prep: 12/28/00 Date Analyzed: 1/2/01 Result Units: mg/L

Analyte Name	Analytical Results	Reported Detection Limits
Lead	<RDL	0.010

ANALYSIS: PAH's by HPLC Method Ref: 8310

Date Ext/Dig/Prep: 12/26/00 Date Analyzed: 1/4/01 Result Units: ug/L

Analyte Name	Analytical Results	Reported Detection Limits
1-Methylnapthalene	<RDL	1.01
2-Methylnapthalene	<RDL	1.01
Acenaphthene	<RDL	1.01
Acenaphthylene	<RDL	2.02
Anthracene	<RDL	0.67
Benzo(a)anthracene	<RDL	0.13
Benzo(a)pyrene	<RDL	0.10
Benzo(b)fluoranthene	<RDL	0.18
Benzo(g,h,i)perylene	<RDL	0.77
Benzo(k)fluoranthene	<RDL	0.17
Chrysene	<RDL	0.15
Dibenzo(a,h)anthracene	<RDL	0.30
Fluoranthene	<RDL	0.21
Fluorene	<RDL	0.51
Indeno(1,2,3-cd)pyrene	<RDL	0.43
Naphthalene	<RDL	1.01
Phenanthrene	<RDL	0.65
Pyrene	<RDL	0.27

ANALYSIS: Petroleum Range Organics (PRO) Method Ref: FL-PRO

Date Ext/Dig/Prep: 12/26/00 Date Analyzed: 1/3/01 Result Units: mg/L

Analyte Name	Analytical Results	Reported Detection Limits
Petroleum Range Organics (PRO)	0.38JB	1.0

ANALYSIS: VOC's Navy (25 ml purge) Method Ref: 8260B

Date Ext/Dig/Prep: 12/29/00 Date Analyzed: 12/29/00 Result Units: ug/L

Analyte Name	Analytical Results	Reported Detection Limits
1,1,1,2-Tetrachloroethane	<RDL	2.5
1,1,1-Trichloroethane	<RDL	4
1,1,2,2-Tetrachloroethane	<RDL	2

1,1,2-Trichloroethane	<RDL	5
1,1-Dichloroethane	<RDL	2
1,1-Dichloroethene	<RDL	6
1,2,3-Trichlorobenzene	<RDL	1.5
1,2,3-Trichloropropane	<RDL	16
1,2,4-Trichlorobenzene	<RDL	2
1,2,4-Trimethylbenzene	<RDL	6.5
1,2-Dibromo-3-chloropropane	<RDL	13
1,2-Dichlorobenzene	<RDL	1.5
1,2-Dichloroethane	<RDL	3
1,2-Dichloropropane	<RDL	2
1,2-Ethylene Dibromide	<RDL	3
1,3,5-Trimethylbenzene	<RDL	2.5
1,3-Dichlorobenzene	<RDL	6
1,3-Dichloropropane	<RDL	2
1,4-Dichlorobenzene	<RDL	1.5
2,2-Dichloropropane	<RDL	17.5
2-Chlorotoluene	<RDL	2
4-Chlorotoluene	<RDL	3
Benzene	<RDL	2
Bromobenzene	<RDL	1.5
Bromochloromethane	<RDL	2
Bromodichloromethane	<RDL	4
Bromoform	<RDL	6
Bromomethane	<RDL	5.5
Carbon tetrachloride	<RDL	10.5
Chlorobenzene	<RDL	2
Chloroethane	<RDL	5
Chloroform	1.1 J	1.5
Chloromethane	<RDL	6.5
cis-1,2-Dichloroethene	<RDL	6
cis-1,3-Dichloropropene	<RDL	5
Dibromochloromethane	<RDL	2.5
Dibromomethane	<RDL	12
Dichlorodifluoromethane	<RDL	5
Ethylbenzene	<RDL	3
Hexachlorobutadiene	<RDL	5.5
Isopropylbenzene	<RDL	2.5
Methylene chloride	<RDL	1.5
n-Butylbenzene	<RDL	5.5
n-Propylbenzene	<RDL	2
Naphthalene	1.0 JB	2
p-Isopropyltoluene	<RDL	6
Sec-Butylbenzene	<RDL	6.5
Styrene	<RDL	2
Tert-Butylbenzene	<RDL	7
Tetrachloroethylene	<RDL	7
Toluene	<RDL	5.5
Total Xylenes	<RDL	5
trans-1,2-Dichloroethene	<RDL	3
trans-1,3-Dichloropropene	<RDL	5
Trichloroethylene	<RDL	5

Trichlorofluoromethane	<RDL	4
Vinyl chloride	<RDL	5.5

ANALYSIS: X PAH Surrogates (Liquid) Method Ref: 8310

Date Ext/Dig/Prep: 12/26/00 Date Analyzed: 1/4/01 Result Units: %

Analyte Name	Analytical Results	Reported Detection Limits
p-terphenyl d14 (Range 20-140)	75	

ANALYSIS: X PRO Sample Surrogates (Water) Method Ref: FL-PRO

Date Ext/Dig/Prep: 12/26/00 Date Analyzed: 1/3/01 Result Units: %

Analyte Name	Analytical Results	Reported Detection Limits
C(39) (Range 42-193)	5	
o-Terphenyl (Range 82-142)	88	

ANALYSIS: X VOC Sample Surrogates-Waters Method Ref: 5030B/8260B

Date Ext/Dig/Prep: 12/29/00 Date Analyzed: 12/29/00 Result Units: %

Analyte Name	Analytical Results	Reported Detection Limits
1,2-Dichloroethane-d4 (78-128)	96	
4-Bromofluorobenzene (86-112)	93	
Toluene-d8 (84-108)	92	

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LABORATORY REPORT

Accura Sample ID #: AC05543 **Accura Project #: 26563**

Client: CH2M HILL - CCI Date Sampled: 12/20/00

Client Contact: DAVID GARRITY Date Received: 12/21/00

Client Project Number: 154282 / CTO - 0029 Date Reported: 1/29/01

Client Project Name: NAS CECIL FIELD 103rd STREET GW SAMPLING Sample Matrix: WATER

Client Sample ID: TRIP BLANK

ANALYSIS: VOC's Navy (25 ml purge) Method Ref: 8260B

Date Ext/Dig/Prep: 12/29/00 Date Analyzed: 12/29/00 Result Units: ug/L

Analyte Name	Analytical Results	Reported Detection Limits
1,1,1,2-Tetrachloroethane	<RDL	2.5
1,1,1-Trichloroethane	<RDL	4
1,1,2,2-Tetrachloroethane	<RDL	2
1,1,2-Trichloroethane	<RDL	5
1,1-Dichloroethane	<RDL	2
1,1-Dichloroethene	<RDL	6
1,2,3-Trichlorobenzene	<RDL	1.5
1,2,3-Trichloropropane	<RDL	16
1,2,4-Trichlorobenzene	<RDL	2
1,2,4-Trimethylbenzene	<RDL	6.5
1,2-Dibromo-3-chloropropane	<RDL	13
1,2-Dichlorobenzene	<RDL	1.5
1,2-Dichloroethane	<RDL	3
1,2-Dichloropropane	<RDL	2
1,2-Ethylene Dibromide	<RDL	3
1,3,5-Trimethylbenzene	<RDL	2.5
1,3-Dichlorobenzene	<RDL	6
1,3-Dichloropropane	<RDL	2
1,4-Dichlorobenzene	<RDL	1.5
2,2-Dichloropropane	<RDL	17.5
2-Chlorotoluene	<RDL	2
4-Chlorotoluene	<RDL	3
Benzene	<RDL	2
Bromobenzene	<RDL	1.5
Bromochloromethane	<RDL	2
Bromodichloromethane	<RDL	4
Bromoform	<RDL	6
Bromomethane	<RDL	5.5
Carbon tetrachloride	<RDL	10.5
Chlorobenzene	<RDL	2
Chloroethane	<RDL	5
Chloroform	<RDL	1.5
Chloromethane	<RDL	6.5
cis-1,2-Dichloroethene	<RDL	6
cis-1,3-Dichloropropene	<RDL	5

Dibromochloromethane	<RDL	2.5
Dibromomethane	<RDL	12
Dichlorodifluoromethane	<RDL	5
Ethylbenzene	<RDL	3
Hexachlorobutadiene	<RDL	5.5
Isopropylbenzene	<RDL	2.5
Methylene chloride	0.86 J	1.5
n-Butylbenzene	<RDL	5.5
n-Propylbenzene	<RDL	2
Naphthalene	0.98 JB	2
p-Isopropyltoluene	<RDL	6
Sec-Butylbenzene	<RDL	6.5
Styrene	<RDL	2
Tert-Butylbenzene	<RDL	7
Tetrachloroethylene	<RDL	7
Toluene	<RDL	5.5
Total Xylenes	<RDL	5
trans-1,2-Dichloroethene	<RDL	3
trans-1,3-Dichloropropene	<RDL	5
Trichloroethylene	<RDL	5
Trichlorofluoromethane	<RDL	4
Vinyl chloride	<RDL	5.5

ANALYSIS: X VOC Sample Surrogates-Waters Method Ref: 5030B/8260B

Date Ext/Dig/Prep: 12/29/00 Date Analyzed: 12/29/00 Result Units: %

Analyte Name	Analytical Results	Reported Detection Limits
1,2-Dichloroethane-d4 (78-128)	87	
4-Bromofluorobenzene (86-112)	95	
Toluene-d8 (84-108)	95	

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LABORATORY REPORT

Accura Sample ID #: AC05544 **Accura Project #: 26563**

Client: CH2M HILL - CCI Date Sampled: 12/21/00

Client Contact: DAVID GARRITY Date Received: 12/21/00

Client Project Number: 154282 / CTO - 0029 Date Reported: 1/29/01

Client Project Name: NAS CECIL FIELD 103rd STREET GW SAMPLING Sample Matrix: WATER

Client Sample ID: METHOD BLANK

ANALYSIS: Metals - Lead Method Ref: 3010A/6010B

Date Ext/Dig/Prep: 12/28/00 Date Analyzed: 1/2/01 Result Units: mg/L

Analyte Name	Analytical Results	Reported Detection Limits
Lead	<RDL	0.010

ANALYSIS: PAH's by HPLC Method Ref: 8310

Date Ext/Dig/Prep: 12/26/00 Date Analyzed: 1/4/01 Result Units: ug/L

Analyte Name	Analytical Results	Reported Detection Limits
1-Methylnapthalene	<RDL	1
2-Methylnapthalene	<RDL	1
Acenaphthene	<RDL	1
Acenaphthylene	<RDL	2
Anthracene	<RDL	0.66
Benzo(a)anthracene	<RDL	0.13
Benzo(a)pyrene	<RDL	0.1
Benzo(b)fluoranthene	<RDL	0.18
Benzo(g,h,i)perylene	<RDL	0.76
Benzo(k)fluoranthene	<RDL	0.17
Chrysene	<RDL	0.15
Dibenzo(a,h)anthracene	<RDL	0.3
Fluoranthene	<RDL	0.21
Fluorene	<RDL	0.5
Indeno(1,2,3-cd)pyrene	<RDL	0.43
Naphthalene	<RDL	1
Phenanthrene	<RDL	0.64
Pyrene	<RDL	0.27

ANALYSIS: Petroleum Range Organics (PRO) Method Ref: FL-PRO

Date Ext/Dig/Prep: 12/26/00 Date Analyzed: 1/4/01 Result Units: mg/L

Analyte Name	Analytical Results	Reported Detection Limits
Petroleum Range Organics (PRO)	0.38J	1.0

ANALYSIS: VOC's Navy (25 ml purge) Method Ref: 8260B

Date Ext/Dig/Prep: 12/29/00 Date Analyzed: 12/29/00 Result Units: ug/L

Analyte Name	Analytical Results	Reported Detection Limits
1,1,1,2-Tetrachloroethane	<RDL	2.5
1,1,1-Trichloroethane	<RDL	4
1,1,2,2-Tetrachloroethane	<RDL	2

1,1,2-Trichloroethane	<RDL	5
1,1-Dichloroethane	<RDL	2
1,1-Dichloroethene	<RDL	6
1,2,3-Trichlorobenzene	<RDL	1.5
1,2,3-Trichloropropane	<RDL	16
1,2,4-Trichlorobenzene	<RDL	2
1,2,4-Trimethylbenzene	<RDL	6.5
1,2-Dibromo-3-chloropropane	<RDL	13
1,2-Dichlorobenzene	<RDL	1.5
1,2-Dichloroethane	<RDL	3
1,2-Dichloropropane	<RDL	2
1,2-Ethylene Dibromide	<RDL	3
1,3,5-Trimethylbenzene	<RDL	2.5
1,3-Dichlorobenzene	<RDL	6
1,3-Dichloropropane	<RDL	2
1,4-Dichlorobenzene	<RDL	1.5
2,2-Dichloropropane	<RDL	17.5
2-Chlorotoluene	<RDL	2
4-Chlorotoluene	<RDL	3
Benzene	<RDL	2
Bromobenzene	<RDL	1.5
Bromochloromethane	<RDL	2
Bromodichloromethane	<RDL	4
Bromoform	<RDL	6
Bromomethane	<RDL	5.5
Carbon tetrachloride	<RDL	10.5
Chlorobenzene	<RDL	2
Chloroethane	<RDL	5
Chloroform	<RDL	1.5
Chloromethane	<RDL	6.5
cis-1,2-Dichloroethene	<RDL	6
cis-1,3-Dichloropropene	<RDL	5
Dibromochloromethane	<RDL	2.5
Dibromomethane	<RDL	12
Dichlorodifluoromethane	<RDL	5
Ethylbenzene	<RDL	3
Hexachlorobutadiene	<RDL	5.5
Isopropylbenzene	<RDL	2.5
Methylene chloride	<RDL	1.5
n-Butylbenzene	<RDL	5.5
n-Propylbenzene	<RDL	2
Naphthalene	1.1 J	2
p-Isopropyltoluene	<RDL	6
Sec-Butylbenzene	<RDL	6.5
Styrene	<RDL	2
Tert-Butylbenzene	<RDL	7
Tetrachloroethylene	<RDL	7
Toluene	<RDL	5.5
Total Xylenes	<RDL	5
trans-1,2-Dichloroethene	<RDL	3
trans-1,3-Dichloropropene	<RDL	5
Trichloroethylene	<RDL	5

Trichlorofluoromethane	<RDL	4
Vinyl chloride	<RDL	5.5

ANALYSIS: X PAH Surrogates (Liquid) Method Ref: 8310

Date Ext/Dig/Prep: 12/26/00 Date Analyzed: 1/4/01 Result Units: %

Analyte Name	Analytical Results	Reported Detection Limits
p-terphenyl d14 (Range 20-140)	96	

ANALYSIS: X PRO QC Surrogates (Water) Method Ref: FL-PRO

Date Ext/Dig/Prep: 12/26/00 Date Analyzed: 1/4/01 Result Units: %

Analyte Name	Analytical Results	Reported Detection Limits
C(39) (Range 42-193)	5	
o-Terphenyl (Range 82-142)	85	

ANALYSIS: X VOC QC Surrogates-Waters Method Ref: 5030B/8260B

Date Ext/Dig/Prep: 12/29/00 Date Analyzed: 12/29/00 Result Units: %

Analyte Name	Analytical Results	Reported Detection Limits
1,2-Dichloroethane-d4 (78-114)	81	
4-Bromofluorobenzene (85-111)	96	
Toluene-d8 (88-106)	99	

Accura Analytical Laboratory, Inc.

PROJECT QUALITY CONTROL RESULTS
AAL PROJECT #26563

		Project Control Rec				Accuracy Limits		Project Control		Precision Limits		Project Control Recoveries		Accuracy Limits		Project Control		Precision Limits	
		MS	MSD	MS	MSD	MS/MSD Recoveries		MS/MSD % Deviation		MS/MSD Deviation		LCS	LCS	LCS Recoveries		Field Dup % Deviation		Field Dup Deviation	
Method No[1]	Analyte / Component	Water		Soil[2]		Water	Soil[2]	Water	Soil[2]	Water	Soil[2]	Water	Soil[2]	Water	Soil[2]	Water	Soil[2]	Water	Soil[2]
	VOLATILES BY GC/MS					%	%			%	%			%	%			%	%
8260B	1,1,1,2-Tetrachloroethane	100	99			60-140	20-150	1%		<30	<50	101		62-108	62-108			<50	<75
8260B	1,1,1-Trichloroethane	97	96			60-140	20-150	1%		<30	<50	96		65-135	65-135			<50	<75
8260B	1,1,2,2-Tetrachloroethane	101	107			60-140	20-150	6%		<30	<50	102		64-135	64-135			<50	<75
8260B	1,1,2-Trichloroethane	106	109			60-140	20-150	3%		<30	<50	101		65-135	65-135			<50	<75
8260B	1,1-Dichloroethane	106	99			60-140	20-150	6%		<30	<50	102		62-135	62-135			<50	<75
8260B	1,1-Dichloroethene	98	100			60-140	20-150	2%		<30	<50	100		65-135	65-135			<50	<75
8260B	1,2,3-Trichlorobenzene	102	109			60-140	20-150	6%		<30	<50	99		65-147	65-147			<50	<75
8260B	1,2,3-Trichloropropane	104	102			60-140	20-150	2%		<30	<50	96		65-135	65-135			<50	<75
8260B	1,2,4-Trichlorobenzene	101	103			60-140	20-150	3%		<30	<50	98		65-145	65-145			<50	<75
8260B	1,2,4-Trimethylbenzene	256	-6			60-140	20-150	210%		<30	<50	99		65-135	65-135			<50	<75
8260B	1,2-Dichloroethane	100	105			60-140	20-150	5%		<30	<50	97		58-137	58-137			<50	<75
8260B	1,2-Dichlorobenzene	98	92			60-140	20-150	6%		<30	<50	99		65-135	65-135			<50	<75
8260B	1,2-Dibromo-3-chloropropane	200	176			60-140	20-150	13%		<30	<50	94		49-135	49-135			<50	<75
8260B	1,2-Dichloropropane	102	96			60-140	20-150	6%		<30	<50	96		60-135	60-135			<50	<75
8260B	1,2-Ethylene Dibromide	101	113			60-140	20-150	11%		<30	<50	102		65-135	65-135			<50	<75
8260B	1,3,5-Trimethylbenzene	134	54			60-140	20-150	85%		<30	<50	97		62-135	62-135			<50	<75
8260B	1,3-Dichlorobenzene	101	91			60-140	20-150	10%		<30	<50	96		65-135	65-135			<50	<75
8260B	1,3-Dichloropropane	100	109			60-140	20-150	8%		<30	<50	105		65-135	65-135			<50	<75
8260B	1,4-Dichlorobenzene	96	93			60-140	20-150	3%		<30	<50	99		65-135	65-135			<50	<75
8260B	2,2-Dichloropropane	87	94			60-140	20-150	8%		<30	<50	95		65-135	65-135			<50	<75
8260B	2-Chlorotoluene	119	98			60-140	20-150	19%		<30	<50	93		63-135	63-135			<50	<75
8260B	4-Chlorotoluene	123	109			60-140	20-150	13%		<30	<50	97		64-135	64-135			<50	<75
8260B	Benzene	103	97			60-140	20-150	5%		<30	<50	101		65-135	65-135			<50	<75
8260B	Bromobenzene	105	99			60-140	20-150	6%		<30	<50	103		65-135	65-135			<50	<75
8260B	Bromochloromethane	105	109			60-140	20-150	4%		<30	<50	105		63-135	63-135			<50	<75
8260B	Bromodichloromethane	101	104			60-140	20-150	3%		<30	<50	102		65-135	65-135			<50	<75
8260B	Bromoform	96	102			60-140	20-150	6%		<30	<50	97		65-135	65-135			<50	<75
8260B	Bromomethane	102	96			60-140	20-150	6%		<30	<50	99		62-135	62-135			<50	<75
8260B	Carbon Tetrachloride	95	96			60-140	20-150	1%		<30	<50	98		52-135	52-135			<50	<75
8260B	Chlorobenzene	99	94			60-140	20-150	6%		<30	<50	98		65-135	65-135			<50	<75
8260B	Chloroethane	109	103			60-140	20-150	6%		<30	<50	109		55-135	55-135			<50	<75
8260B	Chloroform	99	96			60-140	20-150	3%		<30	<50	99		64-135	64-135			<50	<75
8260B	Chloromethane	109	106			60-140	20-150	3%		<30	<50	106		65-135	65-135			<50	<75
8260B	Cis-1,2-Dichloroethene	103	99			60-140	20-150	4%		<30	<50	104		65-135	65-135			<50	<75
8260B	Cis-1,3-Dichloropropene	100	108			60-140	20-150	8%		<30	<50	101		64-135	64-135			<50	<75
8260B	Dibromochloromethane	100	114			60-140	20-150	13%		<30	<50	106		63-135	63-135			<50	<75
8260B	Dibromomethane	104	113			60-140	20-150	8%		<30	<50	101		59-137	59-137			<50	<75
8260B	Dichlorodifluoromethane	105	99			60-140	20-150	5%		<30	<50	108		65-135	65-135			<50	<75
8260B	Ethylbenzene	121	81			60-140	20-150	40%		<30	<50	102		65-135	65-135			<50	<75
8260B	Hexachlorobutadiene	98	87			60-140	20-150	12%		<30	<50	98		65-135	65-135			<50	<75
8260B	Isopropylbenzene	113	78			60-140	20-150	36%		<30	<50	95		65-135	65-135			<50	<75
8260B	total-Xylene	106	89			60-140	20-150	18%		<30	<50	100		65-135	65-135			<50	<75
8260B	Methylene Chloride	85	82			60-140	20-150	3%		<30	<50	97		65-135	65-135			<50	<75
8260B	n-Butylbenzene	178	144			60-140	20-150	21%		<30	<50	99		65-135	65-135			<50	<75
8260B	n-Propylbenzene	122	83			60-140	20-150	37%		<30	<50	101		65-135	65-135			<50	<75
8260B	Naphthalene	198	146			60-140	20-150	30%		<30	<50	80		65-135	65-135			<50	<75
8260B	p-Isopropyltoluene	116	75			60-140	20-150	43%		<30	<50	98		65-135	65-135			<50	<75
8260B	Sec-Butylbenzene	104	73			60-140	20-150	35%		<30	<50	97		65-135	65-135			<50	<75

Notes:
1) SW-846 Methods unless otherwise noted
2) Includes sediments, waste, solids

NS = Not Specified
NA = Not Applicable

PROJECT QUALITY CONTROL RESULTS
AAL PROJECT #26563

		Project Control Rec				Accuracy Limits		Project Control		Precision Limits		Project Control Recoveries		Accuracy Limits		Project Control		Precision Limits	
		MS	MSD	MS	MSD	MS/MSD Recoveries		MS/MSD % Deviation		MS/MSD Deviation		LCS	LCS	LCS Recoveries		Field Dup % Deviation		Field Dup Deviation	
Method No[1]	Analyte / Component	Water		Soil[2]		Water	Soil[2]	Water	Soil[2]	Water	Soil[2]	Water	Soil[2]	Water	Soil[2]	Water	Soil[2]	Water	Soil[2]
	VOLATILES BY GC/MS					%	%			%	%			%	%			%	%
8260B	Styrene	102	100			60-140	20-150	2%		<30	<50	102		65-135	65-135			<50	<75
8260B	Trichloroethylene	101	96			60-140	20-150	5%		<30	<50	98		61-135	61-135			<50	<75
8260B	Tert-Butylbenzene	62	66			60-140	20-150	5%		<30	<50	97		65-135	65-135			<50	<75
8260B	Tetrachloroethylene	102	92			60-140	20-150	10%		<30	<50	98		61-135	61-135			<50	<75
8260B	Toluene	103	95			60-140	20-150	8%		<30	<50	100		64-135	64-135			<50	<75
8260B	Trans-1,2-Dichloroethene	103	99			60-140	20-150	4%		<30	<50	102		65-135	65-135			<50	<75
8260B	Trans-1,3-Dichloropropene	97	111			60-140	20-150	13%		<30	<50	100		56-135	56-135			<50	<75
8260B	Trichlorofluoromethane	95	97			60-140	20-150	2%		<30	<50	97		57-135	57-135			<50	<75
8260B	Vinyl Chloride	92	93			60-140	20-150	1%		<30	<50	94		36-144	36-144			<50	<75
8260B	Toluene-d8 (surr)	102	94			75-125	65-135	8%		NA	NA	99		NA	NA			NA	NA
8260B	4-Bromofluorobenzene (surr)	101	97			75-125	65-135	4%		NA	NA	98		NA	NA			NA	NA
8260B	1,2-Dichloroethane-d4 (surr)	98	103			62-139	52-149	5%		NA	NA	96		NA	NA			NA	NA
	METALS BY ICP					%	%			%	%			%	%			%	%
6010B	Lead	96	100			50-150	30-170	4%	#DIV/0!	<30	<50	99		79-116	79-116			<50	<75
	PETROLEUM HYDROCARBONS					%	%			%	%			%	%			%	%
FL-PRO	TPH	17	54			50-150	30-170	104%	#DIV/0!	<30	<50	48		75-125	70-130			<50	<75

Notes:
1) SW-846 Methods unless otherwise noted
2) Includes sediments, waste, solids

NS = Not Specified
NA = Not Applicable

AAL #26563 ABL/2°C.

CH2M Hill Constructors, Inc.
115 Perimeter Center Place, Suite 700
Atlanta, GA 30346-1278
Tel No (770) 604-9182 ; Fax No (770) 604-9282

CHAIN-OF-CUSTODY RECORD AAL # 26563

COC NUMBER: **154282-09**

PROJECT NAME	PROJECT NUMBER	LAB NAME AND CONTACT	FAX AND MAIL REPORTS/EDD TO RECIPIENT 1 (Name and Company)	RECIPIENT 1 (Address, Tel No. , and Fax No)
N.A.S. Cecil Field 103rd Street	154282	Accura Analytical Laboratory, Inc.	Jennifer Zimmerman / J.A Jones Env. Services	6219 Authority Ave. Building 1 Jacksonville, FL 32222 (904) 7774812 FAX: (904)
PROJECT PHASE/SITE/TASK	CTO OR DO NUMBER	LAB PO NUMBER	FAX AND MAIL REPORTS/EDD TO RECIPIENT 2 (Name and Company)	RECIPIENT 2 (Address, Tel No , and Fax No)
103rd Street Quarterly GW Sampling Event	0029	1760	Jeff Wilmoth / CH2M Hill Constuctors, Inc.	115 Perimeter Center Place, N.E. Suite 700 Atlanta, GA 30346 (770)604-9182 Ext.561 FAX:604-9282
PROJECT CONTACT	PROJECT TEL NO AND FAX NO	LAB TEL NO AND FAX NO	FAX AND MAIL REPORTS/EDD TO RECIPIENT 3 (Name and Company)	RECIPIENT 3 (Address, Tel No , and Fax No)
David Garrity	Ph:(904)777-4812 Fax:(904) 777-4262	Ph: 770-449-8800 Fax: 770-449-5477		

ANALYSES REQUIRED (Include Method Numbers)

ITEM	SAMPLE IDENTIFIER	SAMPLE DESCRIPTION/LOCATION	MATRIX (see codes on back)	DATE COLLECTED	TIME COLLECTED	DATA PKG LEVEL (see codes on back)	TAT (calendar days)	Volatiles by 8021B	PAHs by 8310	Lead by 239.2	TRPH by FL-PRO						SAMPLE TYPE (see codes on back)	COMMENTS/ SCREENING READINGS	LAB ID AC
1	029-SMW01-Q4-00-07	CEF-103-SMW-01	W	12/20/00	9:30	III/C	14	2	2	1	2						Grab		05535
2	029-SMW02-Q4-00-07	CEF-103-SMW-02	W	12/20/00	12:10	III/C	14	2	2	1	2						Grab		05536
3	029-SMW03-Q4-00-07	CEF-103-SMW-03	W	12/20/00	10:40	III/C	14	2	2	1	2						Grab		05537
4	029-SMW07-Q4-00-07	CEF-103-SMW-07	W	12/20/00	14:05	III/C	14	2	2	1	2						Grab		05538
5	029-SMW10-Q4-00-07	CEF-103-SMW-10	W	12/20/00	13:25	III/C	14	2	2	1	2						Grab		05539
6	029-SMW11-Q4-00-07	CEF-103-SMW-11	W	12/20/00	11:25	III/C	14	4	4	2	4						Grab	MS / MSD	05540
7	029-DUP-Q4-00-07	Duplicate	W			III/C	14	2	2	1	2						Grab		05541
8	029-EQB-Q4-00-07	Equipment Blank	W	12/20/00	10:50	III/C	14	2	2	1	2						Grab		05542
9	Temp Blank	Temp Blank	W	12/20/00		III/C	14					4					Grab	Prepared In Field	—
10	Trip Blank	Trip Blank	W	12/20/00		III/C	14					1					Grab	Prepared By Lab	05543

SAMPLER(S) AND COMPANY (please print)	COURIER AND SHIPPING NUMBER	SAMPLES TEMPERATURE AND CONDITION UPON RECEIPT
Randy Dumaop / Scott Sloan J.A. Jones Environmental Services	Federal Express TRK # 790429118080, 791927679277, 791927680822, 792388211937.	2°C / Good

RELINQUISHED BY	DATE	TIME	RECEIVED BY	DATE	TIME
Printed Name and Signature			Printed Name and Signature		
R.Dumaop R. Dumaop	12/20/00	17:30	Federal Express	12/20/00	17:30
Printed Name and Signature			Printed Name and Signature		
FED EX.	12-21-00	1100	ARNOLD B LIGHT Arnold B Light	12-21-00	1100.
Printed Name and Signature			Printed Name and Signature		
				ABL-12-21-00	

Distribution: [ ] Original - Laboratory (To be returned with Analytical Report); [ ] Copy 1 - Project File, [ ] Copy 2 - PMO

Form CCI001, Rev 02/00

Analysis Report Summary 01/02/01 02:21:43 PM page 1

#	Sample Name	File	Method	Date	Time	OpID	Type	Mode
1	STD1-Blank	JAN0201	WATERS2	01/02/01	09:57		X	IR
2	STD8	JAN0201	WATERS2	01/02/01	10:04		X	IR
3	STD3	JAN0201	WATERS2	01/02/01	10:09		X	IR
4	STD4	JAN0201	WATERS2	01/02/01	10:13		X	IR
5	STD2	JAN0201	WATERS2	01/02/01	10:18		X	IR
6	ICV 2	JAN0201	WATERS2	01/02/01	10:23	ma	Q	CONC
7	ICV 1	JAN0201	WATERS2	01/02/01	10:29	ma	Q	CONC
8	ICB	JAN0201	WATERS2	01/02/01	10:36	ma	B	CONC
9	ICS A	JAN0201	WATERS2	01/02/01	10:42	ma	Q	CONC
10	ICS AB	JAN0201	WATERS2	01/02/01	10:49	ma	Q	CONC
11	SS I	JAN0201	WATERS2	01/02/01	10:55	ma	Q	CONC
12	SS I LOW	JAN0201	WATERS2	01/02/01	11:02	ma	Q	CONC
13	qmw1228001 0930	JAN0201	WATERS2	01/02/01	11:08	ma	S	CONC
14	qmw1228002lcs	JAN0201	WATERS2	01/02/01	11:14	ma	S	CONC
15	qmw1228003lcsd	JAN0201	WATERS2	01/02/01	11:20	ma	S	CONC
16	05526	JAN0201	WATERS2	01/02/01	11:26	ma	S	CONC
17	05527	JAN0201	WATERS2	01/02/01	11:32	ma	S	CONC
18	05535	JAN0201	WATERS2	01/02/01	11:39	ma	S	CONC
19	05536	JAN0201	WATERS2	01/02/01	11:45	ma	S	CONC
20	05537	JAN0201	WATERS2	01/02/01	11:51	ma	S	CONC
21	05538	JAN0201	WATERS2	01/02/01	11:57	ma	S	CONC
22	05539	JAN0201	WATERS2	01/02/01	12:03	ma	S	CONC
23	ICV 2	JAN0201	WATERS2	01/02/01	12:11	ma	Q	CONC
24	ICV 1	JAN0201	WATERS2	01/02/01	12:19	ma	Q	CONC
25	ICB	JAN0201	WATERS2	01/02/01	12:26	ma	B	CONC
26	05540	JAN0201	WATERS2	01/02/01	12:32	ma	S	CONC
27	05541	JAN0201	WATERS2	01/02/01	12:39	ma	S	CONC
28	05542	JAN0201	WATERS2	01/02/01	12:45	ma	S	CONC
29	05541 d	JAN0201	WATERS2	01/02/01	12:51	ma	S	CONC
30	05541 ms	JAN0201	WATERS2	01/02/01	12:57	ma	S	CONC
31	05541 msd	JAN0201	WATERS2	01/02/01	13:03	ma	S	CONC
32	05595	JAN0201	WATERS2	01/02/01	13:10	ma	S	CONC
33	05596 524	JAN0201	WATERS2	01/02/01	13:16	ma	S	CONC
34	05509 1:4sd	JAN0201	WATERS2	01/02/01	13:22	ma	S	CONC
35	05509 1:1msa	JAN0201	WATERS2	01/02/01	13:28	ma	S	CONC
36	ICV 2	JAN0201	WATERS2	01/02/01	13:36	ma	Q	CONC
37	ICV 1	JAN0201	WATERS2	01/02/01	13:43	ma	Q	CONC
38	ICB	JAN0201	WATERS2	01/02/01	13:49	ma	B	CONC
39	SS I	JAN0201	WATERS2	01/02/01	13:55	ma	Q	CONC
40	SS I LOW	JAN0201	WATERS2	01/02/01	14:02	ma	Q	CONC
41	ICS A	JAN0201	WATERS2	01/02/01	14:08	ma	Q	CONC
42	ICS AB	JAN0201	WATERS2	01/02/01	14:14	ma	Q	CONC

Proj. # 26563 (pb)

ln-a 01/2/01

#	Element	STD'lank	STD8	STD3	STD4	STD2	ICV 2
1	Ag3280	-.00109	.84003				.9903
2	Al3082	.01546		.10158			1.002
3	As1890	-.00416			.39139		1.025
4	Ba4934	0				2.48877	1.021
5	Be3130	-.0028		1.47687			1.054
6	Ca3179	.00101				.05542	1.014
7	Cd2265	-.00091				1.17634	1.004
8	Co2286	-.00132				.88485	1.016
9	Cr2677	.00034			.60194		1.019
10	Cu3247	.00866				.73383	1.012
11	Fe2714	.00056		.03194			Q1.091
12	K_7664	.01432				3.00636	Q9.123
13	Mg2790	-.00004				.05525	.9698
14	Mn2576	.00029				.74991	1.014
15	Ni2316	-.00325		.61359			.9982
16	2203/1	.00937				2.74017	1.014
17	2203/2	.00119				2.50764	.9953
18	1960/1	-.04075			1.51677		1.019
19	1960/2	.01272			.71815		1.010
20	Sb2068	.00251		.51816			.9943
21	Sn1899	-.00129		.32652			.9837
22	Tl1908	-.00143		.1624			1.017
23	V_2924	-.00002			.01421		1.009
24	Zn2062	-.0003				.15371	1.001
25	Pb2203						1.008
26	Se1960						1.016

#	Element	ICV 1	ICB	ICS A	ICS AB	SS I	SS I LOW
1	Ag3280	.1985	.0003	.0004	.3113	.0009	.0003
2	Al3082	.1987	-.0265	49.94	52.24	Q.0645	.0099
3	As1890	.2019	-.0039	-.0099	1.055	.0380	Q.0065
4	Ba4934	.2066	.0001	.0003	.3066	.0414	.0110
5	Be3130	Q.2124	.0003	.0001	.1006	.0011	.0004
6	Ca3179	.2101	.0017	48.90	50.80	.0799	.0197
7	Cd2265	.2021	.0002	.0072	.3121	Q.0012	.0002
8	Co2286	.2048	.0005	.0009	.3083	.0109	.0028
9	Cr2677	.2054	-.0001	.0003	.3059	.0040	Q.0005
10	Cu3247	.2030	-.0010	Q.0306	.3461	.0044	.0011
11	Fe2714	Q.2248	.0015	47.58	49.64	Q.0412	.0367
12	K_7664	Q1.740	-.0108	Q.2175	Q26.58	.0061	-.0045
13	Mg2790	.1930	.0004	49.22	51.12	.0144	.0073
14	Mn2576	.2048	-.0000	.0014	.2053	.0106	.0029
15	Ni2316	.2015	.0010	.0017	.3023	.0106	Q.0030
16	2203/1	.1998	-.0026	.0181	1.066	.0083	.0037
17	2203/2	.2003	.0021	.0020	1.045	.0121	.0053
18	1960/1	.2083	-.0019	.0154	.5491	.0492	.0173
19	1960/2	.2008	-.0063	-.0054	.5377	.0360	.0052
20	Sb2068	.1987	-.0007	.0046	1.052	.0084	.0020
21	Sn1899	.1990	.0039	.0049	1.033	.0025	.0022
22	Tl1908	.2058	.0026	Q.0412	1.126	.0437	.0113
23	V_2924	.2025	.0001	.0036	.3051	.0105	Q.0036

#	Element	ICV 1	ICB	ICS A	ICS AB	SS I	SS I LOW
24	Zn2062	.2025	.0001	.0037	.3040	.0113	.0027
25	Pb2203	.2002	-.0008	.0130	1.060	.0098	Q.0045
26	Se1960	.2060	-.0032	.0084	.5452	.0450	Q.0135

#	Element	qmw'0930	qmw'2lcs	qmw'lcsd	05526	05527	05535
		11.08					11.39
1	Ag3280	.0001	.9779	1.008	.0003	.0000	-.0006
2	Al3082	.0149	1.001	1.022	9.968	3.056	61.22
3	As1890	-.0088	1.002	1.032	-.0062	-.0066	.0022
4	Ba4934	.0002	1.010	1.031	.0938	.0767	.2701
5	Be3130	.0001	.9774	1.003	.0013	.0004	.0082
6	Ca3179	.0550	1.009	1.036	6.862	11.09	109.3
7	Cd2265	.0001	.9861	1.014	.0016	.0001	.0020
8	Co2286	.0005	.9955	1.024	.0148	.0009	.0034
9	Cr2677	-.0002	.9895	1.018	.0067	.0012	.0642
10	Cu3247	-.0004	.9994	1.021	.0477	.0114	.0423
11	Fe2714	.0157	1.108	1.144	15.96	3.645	16.53
12	K_7664	.0031	9.669	9.905	1.705	3.180	9.033
13	Mg2790	.0048	.9393	.9648	4.607	3.491	8.051
14	Mn2576	.0001	.9963	1.024	.2530	.0446	.1790
15	Ni2316	.0006	.9758	1.003	.0168	.0040	.0212
16	2203/1	-.0003	.9924	1.013	.0039	-.0003	.1152
17	2203/2	.0032	.9911	1.013	.0045	.0020	.1063
18	1960/1	.0002	.9789	.9913	.0020	.0031	.0189
19	1960/2	-.0022	.9878	1.004	-.0010	-.0023	.0020
20	Sb2068	.0003	.9694	.9950	.0010	.0000	.0052
21	Sn1899	.0023	1.924	1.949	.0084	.0103	.0030
22	Tl1908	.0032	.9855	1.016	.0135	.0028	.0169
23	V_2924	.0001	.9842	1.008	.0484	.0117	.0972
24	Zn2062	.0118	.9817	1.015	.0405	.0207	.0503
25	Pb2203	.0011	.9922	1.013	.0043	.0007	.1125
26	Se1960	-.0004	.9820	.9956	.0012	.0015	.0131

#	Element	05536	05537	05538	05539	ICV 2	ICV 1
		11.45	11.51	11.57	12.03		
1	Ag3280	.0001	.0000	-.0021	-.0009	1.018	.2024
2	Al3082	292.5	.7321	170.6	347.6	Q1.149	Q.3028
3	As1890	.0036	-.0032	.0231	.0195	Q1.064	.2078
4	Ba4934	.6662	.1059	.8027	1.846	1.032	.2055
5	Be3130	.0023	.0036	.0220	.0139	Q1.100	Q.2188
6	Ca3179	194.1	125.3	68.62	82.98	Q1.072	Q.2171
7	Cd2265	.0023	.0019	.0105	.0347	1.029	.2046
8	Co2286	.0049	.0426	.0128	.0284	1.037	.2061
9	Cr2677	.1582	.0033	.2634	.3054	1.037	.2054
10	Cu3247	.1202	.0152	.0768	1.305	1.025	.2012
11	Fe2714	23.93	8.448	81.52	258.4	Q1.182	Q.2541
12	K_7664	15.26	3.857	5.740	12.05	Q9.047	Q1.665
13	Mg2790	20.05	14.68	8.049	23.36	.9659	Q.1884
14	Mn2576	.2006	.1063	.4179	.2037	1.036	.2067
15	Ni2316	.0403	.0501	.0478	.0850	1.016	.2020
16	2203/1	.1932	.0080	.1803	.3710	1.032	.2016
17	2203/2	.1272	.0072	.1418	.2712	1.023	.2089

#	Element	05536	05537	05538	05539	ICV 2	ICV 1
		11.45	11.51	11.57	12.03		
18	1960/1	.0585	.0049	.0426	.0634	1.020	.2058
19	1960/2	.0413	-.0048	.0075	.0156	1.027	.2073
20	Sb2068	.0411	.0007	.0209	.0515	1.003	.1974
21	Sn1899	.0077	.0042	.0068	.0154	1.006	.1999
22	Tl1908	.0145	.0099	.0698	.2131	Q1.058	.2103
23	V_2924	.2062	.0148	.4376	.4937	1.017	.2018
24	Zn2062	.1112	.0599	.0834	.4360	1.023	.2047
25	Pb2203	.1715	.0080	.1676	.3379	1.029	.2042
26	Se1960	.0513	.0019	.0300	.0457	1.022	.2065

#	Element	ICB	05540	05541	05542	05541 d	05541 ms
			12.32	12.39	12.45		
1	Ag3280	.0002	-.0001	-.0005	.0004	-.0006	.9627
2	Al3082	.0644	146.0	208.4	.1146	248.3	332.9
3	As1890	-.0039	-.0022	.0093	-.0055	.0074	.9373
4	Ba4934	.0002	1.112	1.112	.0010	1.230	2.145
5	Be3130	.0003	.0107	.0084	.0002	.0090	.9519
6	Ca3179	-.0031	220.5	68.15	.3633	69.37	68.81
7	Cd2265	.0001	.0095	.0167	-.0002	.0184	.9355
8	Co2286	.0010	.0023	.0209	.0007	.0223	.9556
9	Cr2677	.0002	.1974	.1835	.0005	.2128	1.143
10	Cu3247	-.0025	.0836	.7790	-.0030	.8221	1.861
11	Fe2714	.0003	84.56	149.0	.0418	164.9	174.9
12	K_7664	-.0003	7.928	7.952	.0121	9.130	22.81
13	Mg2790	.0018	12.41	18.77	.0775	19.75	21.36
14	Mn2576	-.0001	.8041	.1617	.0001	.1756	1.099
15	Ni2316	.0024	.0266	.0593	.0017	.0639	.9756
16	2203/1	-.0009	.1739	.2140	.0009	.2378	1.183
17	2203/2	.0038	.1341	.1514	.0021	.1739	1.124
18	1960/1	.0040	.0326	.0475	.0016	.0434	.9218
19	1960/2	-.0035	.0101	.0035	-.0054	.0120	.9469
20	Sb2068	-.0011	.0220	.0292	.0003	.0359	.2863
21	Sn1899	.0012	.0073	.0073	.0004	.0100	1.357
22	Tl1908	.0050	.0684	.1225	.0027	.1307	1.147
23	V_2924	-.0022	.1835	.2981	.0002	.3347	1.266
24	Zn2062	.0005	.0911	.3523	.0128	.3703	1.266
25	Pb2203	.0009	.1609	.1934	.0015	.2167	1.164
26	Se1960	.0017	.0244	.0318	-.0006	.0317	.9285

95% MS/MSD RPD 2.1

#	Element	055' msd	05595	05596	055':4sd	055'1msa	ICV 2
					S26	S26	
1	Ag3280	.9496	.0001	.0005	.0025	.2028	1.026
2	Al3082	317.1	8.285	.5709	9.417	10.25	Q1.123
3	As1890	.9331	-.0043	-.0048	.0005	.2066	Q1.076
4	Ba4934	2.145	.0880	.0236	.0863	.2989	1.031
5	Be3130	.9451	.0008	.0003	.0024	.2181	Q1.119
6	Ca3179	68.33	1.030	4.772	6.610	7.281	1.045
7	Cd2265	.9222	.0011	.0001	.0031	.2010	1.025
8	Co2286	.9438	.0025	.0021	.0210	.2200	1.034
9	Cr2677	1.127	.0045	.0006	.0051	.2096	1.025
10	Cu3247	1.845	.0027	-.0018	.0216	.2479	1.036
11	Fe2714	173.1	12.23	1.382	14.64	16.53	Q1.114

#	Element	055' msd	05595	05596	055':4sd	055'1msa	ICV 2
12	K_7664	21.90	1.900	1.943	1.502	3.534	Q8.923
13	Mg2790	20.83	.9085	.8108	4.115	4.654	Q.9352
14	Mn2576	1.083	.2859	.1532	.2289	.4615	1.037
15	Ni2316	.9635	.0039	.0023	.0339	.2182	.9993
16	2203/1	1.170	.0128	.0042	-.0017	.2081	1.019
17	2203/2	1.110	.0075	.0019	.0100	.2091	1.058
18	1960/1	.9284	.0044	.0043	.0858	.2062	1.001
19	1960/2	.9182	-.0045	-.0052	-.0646	.1908	1.050
20	Sb2068	.2132	.0011	.0019	-.0100	.2030	.9897
21	Sn1899	1.317	.0033	.0007	.0127	.2149	.9961
22	Tl1908	1.137	.0150	.0026	.0457	.2291	Q1.076
23	V_2924	1.248	.0069	-.0011	.0568	.2502	1.008
24	Zn2062	1.258	.0221	.0418	.1172	.2435	1.001
25	Pb2203	1.150	.0113	.0037	.0034	.2088	1.032
26	Se1960	.9234	.0016	.0013	.0366	.2014	1.017

#	Element	ICV 1	ICB	SS I	SS I LOW	ICS A	ICS AB
1	Ag3280	.2055	.0005	Q.0015	.0007	.0004	.3202
2	Al3082	Q.3552	.1285	Q.1982	.1380	47.61	50.00
3	As1890	Q.2140	-.0059	.0415	Q.0072	-.0063	1.092
4	Ba4934	.2077	.0001	.0412	.0106	.0003	.3074
5	Be3130	Q.2243	.0003	Q.0013	.0006	.0001	.1063
6	Ca3179	.2013	-.0144	.0661	.0030	50.54	52.59
7	Cd2265	.2056	-.0001	.0011	.0001	.0046	.3126
8	Co2286	.2085	.0015	.0114	Q.0039	.0020	.3105
9	Cr2677	.2045	-.0001	.0040	.0009	.0007	.3026
10	Cu3247	.2033	-.0048	Q.0001	-.0037	Q.0256	.3486
11	Fe2714	Q.2312	-.0087	Q.0294	.0265	48.46	50.63
12	K_7664	Q1.676	-.0115	-.0275	-.0255	Q.2054	Q25.49
13	Mg2790	.1899	.0030	.0093	.0055	47.06	48.88
14	Mn2576	.2087	-.0001	.0106	.0027	.0013	.2082
15	Ni2316	.2011	.0022	Q.0130	Q.0043	.0044	.3019
16	2203/1	.2021	.0008	.0094	.0037	.0205	1.057
17	2203/2	.2117	.0013	.0111	.0035	.0025	1.094
18	1960/1	.2044	.0090	.0493	.0195	.0185	.5340
19	1960/2	.2057	-.0081	.0374	.0009	-.0107	.5427
20	Sb2068	.2003	-.0005	.0090	.0022	.0065	1.031
21	Sn1899	.1975	.0019	.0029	.0027	.0041	1.038
22	Tl1908	Q.2226	.0022	.0465	Q.0156	Q.0452	1.173
23	V_2924	.1994	.0002	.0103	Q.0036	.0024	.3048
24	Zn2062	.2029	.0010	.0120	.0040	.0040	.3024
25	Pb2203	.2055	.0012	.0102	Q.0039	.0148	1.070
26	Se1960	.2051	.0035	.0455	Q.0135	.0087	.5368

#	Sample Name	File	Method	Date	Time	OpID	Type	Mode
1	STD1-Blank	JAN0401	WATERS2	01/04/01	08:38		X	IR
2	STD8	JAN0401	WATERS2	01/04/01	08:45		X	IR
3	STD3	JAN0401	WATERS2	01/04/01	08:48		X	IR
4	STD4	JAN0401	WATERS2	01/04/01	08:52		X	IR
5	STD2	JAN0401	WATERS2	01/04/01	08:57		X	IR
6	ICV 2	JAN0401	WATERS2	01/04/01	09:01	ma	Q	CONC
7	ICV 1	JAN0401	WATERS2	01/04/01	09:09	ma	Q	CONC
8	ICB	JAN0401	WATERS2	01/04/01	09:15	ma	B	CONC
9	ICS A	JAN0401	WATERS2	01/04/01	09:33	ma	Q	CONC
10	ICS AB	JAN0401	WATERS2	01/04/01	09:39	ma	Q	CONC
11	SS I	JAN0401	WATERS2	01/04/01	09:45	ma	Q	CONC
12	SS I LOW	JAN0401	WATERS2	01/04/01	10:02	ma	Q	CONC
13	05599 TL	JAN0401	WATERS2	01/04/01	10:08	ma	S	CONC
14	05601 TL	JAN0401	WATERS2	01/04/01	10:14	ma	S	CONC
15	05619 TL	JAN0401	WATERS2	01/04/01	10:19	ma	S	CONC
16	05621 TL	JAN0401	WATERS2	01/04/01	10:25	ma	S	CONC
17	ICV 2	JAN0401	WATERS2	01/04/01	10:32	ma	Q	CONC
18	ICV 1	JAN0401	WATERS2	01/04/01	10:38	ma	Q	CONC
19	ICB (Proj. # 28563)	JAN0401	WATERS2	01/04/01	10:44	ma	B	CONC
20	QMW0103011 0810	JAN0401	WATERS2	01/04/01	10:49	ma	S	CONC
21	QMW0103012LCS (pb)	JAN0401	WATERS2	01/04/01	10:55	ma	S	CONC
22	QMW0103013LCSD	JAN0401	WATERS2	01/04/01	11:01	ma	S	CONC
23	06007	JAN0401	WATERS2	01/04/01	11:07	ma	S	CONC
24	05540	JAN0401	WATERS2	01/04/01	11:12	ma	S	CONC
25	05540 D	JAN0401	WATERS2	01/04/01	11:18	ma	S	CONC
26	05540 MS	JAN0401	WATERS2	01/04/01	11:24	ma	S	CONC
27	05540 MSD	JAN0401	WATERS2	01/04/01	11:29	ma	S	CONC
28	ICV 2	JAN0401	WATERS2	01/04/01	11:36	ma	Q	CONC
29	ICV 1	JAN0401	WATERS2	01/04/01	11:42	ma	Q	CONC
30	ICB	JAN0401	WATERS2	01/04/01	11:48	ma	B	CONC
31	QMW0102014 1240	JAN0401	WATERS2	01/04/01	11:54	ma	S	CONC
32	QMW0102015LCS	JAN0401	WATERS2	01/04/01	11:59	ma	S	CONC
33	QMW0102016LCSD	JAN0401	WATERS2	01/04/01	12:05	ma	S	CONC
34	05637	JAN0401	WATERS2	01/04/01	12:11	ma	S	CONC
35	05639	JAN0401	WATERS2	01/04/01	12:17	ma	S	CONC
36	05641	JAN0401	WATERS2	01/04/01	12:22	ma	S	CONC
37	05643	JAN0401	WATERS2	01/04/01	12:28	ma	S	CONC
38	05644	JAN0401	WATERS2	01/04/01	12:34	ma	S	CONC
39	05645	JAN0401	WATERS2	01/04/01	12:39	ma	S	CONC
40	05646	JAN0401	WATERS2	01/04/01	12:45	ma	S	CONC
41	ICV 2	JAN0401	WATERS2	01/04/01	12:52	ma	Q	CONC
42	ICV 1	JAN0401	WATERS2	01/04/01	12:58	ma	Q	CONC
43	ICB	JAN0401	WATERS2	01/04/01	13:04	ma	B	CONC
44	05647	JAN0401	WATERS2	01/04/01	13:10	ma	S	CONC
45	05647 D	JAN0401	WATERS2	01/04/01	13:16	ma	S	CONC
46	05647 MS	JAN0401	WATERS2	01/04/01	13:21	ma	S	CONC
47	ICV 1	JAN0401	WATERS2	01/04/01	13:34	ma	Q	CONC
48	ICV 2	JAN0401	WATERS2	01/04/01	13:40	ma	Q	CONC
49	ICB	JAN0401	WATERS2	01/04/01	13:46	ma	B	CONC
50	05647	JAN0401	WATERS2	01/04/01	13:52	ma	S	CONC
51	05647 D	JAN0401	WATERS2	01/04/01	13:58	ma	S	CONC
52	05647 MS	JAN0401	WATERS2	01/04/01	14:04	ma	S	CONC
53	05647 MSD	JAN0401	WATERS2	01/04/01	14:09	ma	S	CONC

#	Sample Name	File	Method	Date	Time	OpID	Type	Mode
54	05648	JAN0401	WATERS2	01/04/01	14:15	ma	S	CONC
55	05682	JAN0401	WATERS2	01/04/01	14:21	ma	S	CONC
56	05684	JAN0401	WATERS2	01/04/01	14:26	ma	S	CONC
57	05686	JAN0401	WATERS2	01/04/01	14:32	ma	S	CONC
58	05687	JAN0401	WATERS2	01/04/01	14:38	ma	S	CONC
59	05688	JAN0401	WATERS2	01/04/01	14:44	ma	S	CONC
60	ICV 2	JAN0401	WATERS2	01/04/01	14:50	ma	Q	CONC
61	ICV 1	JAN0401	WATERS2	01/04/01	14:56	ma	Q	CONC
62	ICV 2	JAN0401	WATERS2	01/04/01	15:17	ma	Q	CONC
63	ICB	JAN0401	WATERS2	01/04/01	15:24	ma	B	CONC
64	05689	JAN0401	WATERS2	01/04/01	15:30	ma	S	CONC
65	05690	JAN0401	WATERS2	01/04/01	15:36	ma	S	CONC
66	05691	JAN0401	WATERS2	01/04/01	15:42	ma	S	CONC
67	05692	JAN0401	WATERS2	01/04/01	15:47	ma	S	CONC
68	05692 D	JAN0401	WATERS2	01/04/01	15:53	ma	S	CONC
69	05692 MS	JAN0401	WATERS2	01/04/01	15:59	ma	S	CONC
70	05692 MSD	JAN0401	WATERS2	01/04/01	16:04	ma	S	CONC
71	05637 1:4SD	JAN0401	WATERS2	01/04/01	16:10	ma	S	CONC
72	05637 1:1MSA	JAN0401	WATERS2	01/04/01	16:16	ma	S	CONC
73	ICV 2	JAN0401	WATERS2	01/04/01	16:24	ma	Q	CONC
74	ICV 1	JAN0401	WATERS2	01/04/01	16:30	ma	Q	CONC
75	ICB	JAN0401	WATERS2	01/04/01	16:44	ma	B	CONC
76	SS I	JAN0401	WATERS2	01/04/01	16:50	ma	Q	CONC
77	SS I LOW	JAN0401	WATERS2	01/04/01	16:55	ma	Q	CONC
78	ICS A	JAN0401	WATERS2	01/04/01	17:01	ma	Q	CONC
79	ICS AB	JAN0401	WATERS2	01/04/01	17:07	ma	Q	CONC

#	Element	STD'lank	STD8	STD3	STD4	STD2	ICV 2
1	Ag3280	-.00113	.86453				1.008
2	Al3082	.03033		.1101			Q.8664
3	As1890	-.005			.41979		.9992
4	Ba4934	.00004				2.71178	.9930
5	Be3130	-.00294		1.54451			Q1.060
6	Ca3179	.00111				.05884	.9851
7	Cd2265	-.00095				1.22765	.9812
8	Co2286	-.00136				.93517	.9908
9	Cr2677	.00051			.63289		1.005
10	Cu3247	.00933				.79332	.9857
11	Fe2714	.00078		.0334			Q1.081
12	K_7664	.01415				2.82649	Q8.874
13	Mg2790	.00006				.05988	Q.9370
14	Mn2576	.00046				.7942	.9880
15	Ni2316	-.00339		.62654			.9954
16	2203/1	.00681				2.94645	.9786
17	2203/2	.00336				2.71087	.9753
18	1960/1	-.04216			1.6804		1.000
19	1960/2	.0116			.77759		.9950
20	Sb2068	.00245		.53857			.9892
21	Sn1899	-.00099		.34585			.9864
22	Tl1908	-.00135		.17371			1.003
23	V_2924	-.00002			.01494		.9914
24	Zn2062	-.00024				.16771	.9859
25	Pb2203						.9778
26	Se1960						.9987

#	Element	ICV 1	ICB	ICS A	ICS AB	SS I	SS I LOW
1	Ag3280	.2002	.0002	.0004	.3187	.0012	.0004
2	Al3082	Q-.0016	-.3361	56.27	58.41	Q-.2268	-.2921
3	As1890	.1928	-.0034	-.0036	1.046	.0402	Q.0066
4	Ba4934	.1996	.0002	.0003	.2991	.0403	.0105
5	Be3130	Q.2113	.0002	-.0001	.1023	.0010	.0002
6	Ca3179	.1986	-.0050	48.55	50.03	.0858	.0107
7	Cd2265	.1967	.0005	.0061	.3055	.0011	.0003
8	Co2286	.1975	.0002	.0012	.3024	.0104	.0027
9	Cr2677	.2000	-.0006	-.0008	.3032	.0035	Q.0002
10	Cu3247	.1957	-.0007	Q.0322	.3409	Q.0039	-.0001
11	Fe2714	Q.2248	-.0117	48.43	50.03	Q.0452	.0206
12	K_7664	Q1.671	.0117	Q.2206	Q25.43	.0000	.0028
13	Mg2790	Q.1838	-.0030	48.61	49.97	.0183	-.0003
14	Mn2576	.1973	-.0002	.0011	.2014	.0101	.0025
15	Ni2316	.1993	.0010	.0026	.3048	Q.0120	Q.0048
16	2203/1	.1934	-.0002	.0160	1.047	.0107	.0031
17	2203/2	.1935	.0012	.0029	1.034	.0103	.0032
18	1960/1	.2039	.0055	.0145	.5495	.0530	.0163
19	1960/2	.2037	-.0002	-.0012	.5342	.0372	.0124
20	Sb2068	.1976	.0002	.0062	1.051	.0089	.0026
21	Sn1899	.1976	.0005	-.0011	1.040	.0016	-.0028
22	Tl1908	.2006	.0013	Q.0376	1.117	.0471	.0106
23	V_2924	.1968	.0000	.0036	.3039	.0094	Q.0036

#	Element	ICV 1	ICB	ICS A	ICS AB	SS I	SS I LOW
24	Zn2062	.1964	-.0002	.0032	.3012	.0104	.0029
25	Pb2203	.1937	.0005	.0119	1.043	.0108	Q.0034
26	Se1960	.2041	.0038	.0092	.5443	.0480	Q.0152

#	Element	05599 TL	05601 TL	05619 TL	05621 TL	ICV 2	ICV 1
1	Ag3280	.0004	.0004	.0002	.0001	.9777	.1987
2	Al3082	.2364	.0170	.0900	-.0251	Q.8655	Q.0711
3	As1890	-.0052	-.0052	-.0042	-.0058	.9871	.1992
4	Ba4934	.0598	.0172	.0280	.0495	.9465	.1935
5	Be3130	.0001	.0000	.0000	.0001	1.043	Q.2126
6	Ca3179	3.877	2.040	2.834	4.318	.9556	.1911
7	Cd2265	-.0004	.0002	-.0002	-.0002	Q.9443	.1937
8	Co2286	.0013	.0001	.0006	.0006	.9580	.1956
9	Cr2677	-.0002	-.0005	-.0003	-.0007	.9665	.1967
10	Cu3247	.0273	.0109	.0054	.0059	.9452	.1895
11	Fe2714	.0087	5.586	.1169	.0106	1.045	Q.2143
12	K_7664	.5187	1.039	.7570	1.177	Q8.260	Q1.604
13	Mg2790	4.346	.8079	2.732	1.755	Q.8790	Q.1786
14	Mn2576	.0149	.0218	.0101	.0119	.9571	.1951
15	Ni2316	.0015	.0015	.0028	.0021	.9516	.1960
16	2203/1	.0024	.0030	.0025	.0019	.9479	.1909
17	2203/2	.0023	-.0004	.0020	.0000	.9613	.1948
18	1960/1	-.0011	.0055	.0025	.0085	.9563	.1998
19	1960/2	-.0017	.0025	-.0024	.0027	.9723	.1952
20	Sb2068	.0011	.0015	-.0013	-.0004	Q.9410	.1899
21	Sn1899	-.0021	.0059	-.0017	.0040	.9501	.1972
22	Tl1908	.0002	.0034	-.0011	.0011	.9801	.2013
23	V_2924	.0001	.0001	-.0011	.0001	.9491	.1936
24	Zn2062	.0177	.0422	.0171	.0114	.9487	.1925
25	Pb2203	.0026	.0021	.0026	.0015	.9526	.1924
26	Se1960	-.0011	.0047	.0011	.0068	.9618	.1985

#	Element	ICB	QMW'0810	QMW'2LCS	QMW'LCSD	06007	05540
			10.49				
1	Ag3280	.0006	.0003	1.003	1.032	.0020	-.0003
2	Al3082	-.2462	-.2609	.8871	.9892	4.390	143.2
3	As1890	-.0027	.0012	1.020	1.035	-.0036	.0018
4	Ba4934	.0003	.0001	1.002	1.040	.1568	1.023
5	Be3130	.0004	.0001	1.028	1.040	.0002	.0105
6	Ca3179	-.0100	.0197	1.015	1.036	25.33	208.4
7	Cd2265	.0002	-.0002	.9892	.9983	.0028	.0070
8	Co2286	.0010	.0005	.9985	1.013	.0044	.0012
9	Cr2677	-.0005	-.0008	1.002	1.014	.0414	.1758
10	Cu3247	-.0026	-.0029	.9984	1.042	.1328	.0868
11	Fe2714	-.0194	.0028	1.120	1.226	5.387	80.27
12	K_7664	.0047	-.0054	9.633	9.794	88.23	6.942
13	Mg2790	-.0035	.0013	.9305	.9525	2.758	11.52
14	Mn2576	-.0001	-.0002	1.007	1.018	.1130	.7592
15	Ni2316	.0024	.0021	.9905	1.004	.0138	.0246
16	2203/1	-.0012	.0013	.9814	.9958	.0800	.1520
17	2203/2	-.0005	-.0007	.9956	1.015	.0781	.1247

#	Element	ICB	QMW'0810	QMW'2LCS	QMW'LCSD	06007	05540
			8.10				11.12
18	1960/1	.0098	.0047	.9672	.9911	.0055	.0294
19	1960/2	-.0006	.0001	.9898	1.013	.0017	.0167
20	Sb2068	.0005	.0013	.9840	1.006	.0133	.0180
21	Sn1899	-.0003	-.0007	2.032	2.054	.0134	.0034
22	T11908	.0034	.0017	1.029	1.046	.0036	.0629
23	V_2924	-.0021	-.0021	.9919	1.013	.0119	.1678
24	Zn2062	.0007	.0009	.9833	.9767	2.000	.0833
25	Pb2203	-.0007	.0009	.9864	1.002	.0796	.1432
26	Se1960	.0065	.0034	.9749	.9984	.0045	.0245

#	Element	05540 D	05540 MS	055' MSD	ICV 2	ICV 1	ICB
1	Ag3280	-.0001	.9965	1.028	1.021	.1982	.0005
2	Al3082	137.0	167.3	185.9	1.005	Q.0508	-.2247
3	As1890	.0019	.9531	.9873	1.027	.1984	-.0013
4	Ba4934	.9983	1.974	2.049	.9863	.1931	.0003
5	Be3130	.0096	.9737	1.001	Q1.099	Q.2144	.0004
6	Ca3179	195.4	211.5	217.0	Q1.099	Q.2288	.0019
7	Cd2265	.0066	.9148	.9422	.9873	.1927	-.0002
8	Co2286	.0011	.9338	.9604	.9991	.1948	.0011
9	Cr2677	.1629	1.085	1.125	1.005	.1953	-.0005
10	Cu3247	.0761	1.116	1.154	.9934	.1896	-.0037
11	Fe2714	75.87	83.28	87.00	Q1.138	Q.2242	-.0133
12	K_7664	6.822	20.11	21.35	Q8.575	Q1.572	-.0219
13	Mg2790	11.13	12.67	13.31	Q.9167	Q.1778	-.0004
14	Mn2576	.7175	1.683	1.730	.9989	.1951	-.0001
15	Ni2316	.0225	.9484	.9781	.9860	.1932	.0019
16	2203/1	.1402	1.092	1.134	.9864	.1934	.0010
17	2203/2	.1189	1.093	1.122	.9947	.1933	.0004
18	1960/1	.0249	.9432	.9831	.9877	.2020	.0061
19	1960/2	.0176	.9670	.9938	1.008	.1989	-.0020
20	Sb2068	.0178	.3250	.3243	.9730	.1924	.0008
21	Sn1899	.0025	1.325	1.383	.9941	.1923	.0015
22	T11908	.0615	1.087	1.127	1.038	.2015	.0057
23	V_2924	.1563	1.089	1.125	.9890	.1936	-.0009
24	Zn2062	.0751	.9611 96	.9858 100	.9839	.1897	.0002
25	Pb2203	.1334	1.092	1.130	.9894	.1936	.0010
26	Se1960	.0219	.9504	.9858	.9947	.2012	.0036

MS/MSD RPD = 4.1

#	Element	QMW'1240	QMW'5LCS	QMW'LCSD	05637	05639	05641
1	Ag3280	.0004	.9823	.8974	.0007	.0006	.0003
2	Al3082	-.1426	.9493	.9760	-.2825	-.4874	-.4683
3	As1890	-.0014	1.043	1.031	-.0040	-.0006	-.0058
4	Ba4934	.0002	1.008	1.004	.0189	.0484	.0566
5	Be3130	.0001	1.063	1.056	.0004	.0002	.0001
6	Ca3179	.0747	1.086	1.078	7.046	72.22	48.90
7	Cd2265	-.0002	1.002	1.001	.0009	.0000	.0017
8	Co2286	.0009	1.018	1.014	.0014	.0012	.0019
9	Cr2677	-.0003	1.016	1.008	.0002	.0009	.0001
10	Cu3247	-.0021	1.021	1.017	.0009	.0065	.0087
11	Fe2714	-.0061	1.119	1.099	15.79	3.949	21.54

#	Element	QMW'1240	QMW'5LCS	QMW'LCSD	05637	05639	05641
12	K_7664	.0095	9.139	9.147	1.433	7.252	4.124
13	Mg2790	.0022	.9274	.9146	2.890	14.41	14.53
14	Mn2576	.0004	1.022	1.015	.0185	.1173	.3259
15	Ni2316	.0027	.9996	.9915	.0027	.0035	.0024
16	2203/1	.0008	.9992	.9991	.0058	.0039	.0052
17	2203/2	.0006	1.027	1.018	-.0005	-.0009	-.0000
18	1960/1	.0026	.9733	.9648	.0024	.0008	.0010
19	1960/2	.0036	1.005	.9946	-.0015	.0016	-.0013
20	Sb2068	.0017	.9861	.9809	.0014	.0014	.0029
21	Sn1899	-.0027	2.078	2.068	.0027	-.0004	.0017
22	T11908	.0038	1.050	1.052	.0174	.0041	.0189
23	V_2924	.0002	1.008	.9979	.0001	.0001	.0001
24	Zn2062	.0010	.9988	.9908	.0103	.0130	.0100
25	Pb2203	.0010	1.009	1.006	.0040	.0026	.0037
26	Se1960	.0032	.9842	.9749	.0013	.0013	.0004

#	Element	05643	05644	05645	05646	ICV 2	ICV 1
1	Ag3280	.0003	.0007	.0005	.0003	1.023	.2039
2	Al3082	-1.961	-.1319	.2307	.6121	.9788	Q.1085
3	As1890	-.0153	-.0050	-.0005	-.0006	1.033	.2064
4	Ba4934	.0244	.0004	.0230	.0283	.9702	.1958
5	Be3130	.0000	.0001	.0002	.0000	Q1.110	Q.2219
6	Ca3179	43.89	.0889	6.443	15.83	1.003	.1909
7	Cd2265	.0188	-.0001	-.0006	-.0006	.9765	.1957
8	Co2286	.0000	.0008	.0014	.0016	.9960	.2000
9	Cr2677	.0002	-.0002	.0008	.0086	.9943	.1982
10	Cu3247	.0477	-.0043	-.0021	.0003	.9894	.1934
11	Fe2714	234.2	.0589	1.360	2.264	Q1.099	Q.2232
12	K_7664	1.836	.0031	2.197	2.146	Q8.102	Q1.551
13	Mg2790	6.497	.0065	1.964	4.447	Q.8848	Q.1740
14	Mn2576	1.056	.0011	.0695	.1571	.9979	.2002
15	Ni2316	.0265	.0020	.0033	.0038	.9679	.1965
16	2203/1	.0293	.0035	.0043	.0036	.9819	.1935
17	2203/2	.0026	-.0002	.0006	-.0011	1.007	.1988
18	1960/1	-.0092	.0046	.0048	.0039	.9662	.1973
19	1960/2	-.0255	-.0029	.0004	.0014	1.002	.2014
20	Sb2068	.0061	.0018	.0005	.0019	.9558	.1947
21	Sn1899	.0024	.0000	.0058	-.0004	.9881	.1993
22	T11908	.1786	-.0001	.0037	-.0011	1.045	.2109
23	V_2924	.0035	-.0033	.0003	.0012	.9780	.1950
24	Zn2062	.0337	.0077	.0492	.0279	.9732	.1950
25	Pb2203	.0206	.0025	.0033	.0023	.9905	.1955
26	Se1960	-.0144	.0023	.0035	.0032	.9785	.1989

#	Element	ICB	05647	05647 D	05647 MS	ICV 1	ICV 2
1	Ag3280	.0004	.0007	.0004	.8685	.2008	1.015
2	Al3082	-.1389	-.2102	-.2054	.9509	Q.1692	1.003
3	As1890	-.0041	-.0029	-.0050	1.032	.2028	1.031
4	Ba4934	.0002	.0348	.0345	1.031	.2003	.9684
5	Be3130	.0003	.0001	.0000	1.071	Q.2136	Q1.102

#	Element	ICB	05647	05647 D	05647 MS	ICV 1	ICV 2
6	Ca3179	-.0165	26.76	26.70	28.82	Q.1799	.9824
7	Cd2265	-.0000	-.0001	-.0004	.9909	Q.1815	.9589
8	Co2286	.0008	.0013	.0004	1.014	Q.1832	.9791
9	Cr2677	-.0003	.0050	-.0000	.9983	.1904	.9828
10	Cu3247	-.0051	-.0010	-.0014	1.032	.2023	.9958
11	Fe2714	-.0240	2.097	2.015	3.181	Q.2514	Q1.113
12	K_7664	.0095	4.077	3.984	14.32	Q1.559	Q7.981
13	Mg2790	.0011	2.663	2.651	3.700	Q.1785	Q.8716
14	Mn2576	-.0002	.1645	.1640	1.182	.1935	.9908
15	Ni2316	.0029	.0029	.0019	.9866	.1968	.9597
16	2203/1	.0011	.0024	.0018	1.012	.1709	.9398
17	2203/2	-.0018	-.0010	.0001	1.031	.1854	.9746
18	1960/1	.0073	.0054	.0025	.9633	.2075	.9673
19	1960/2	-.0054	-.0030	-.0008	.9883	.2071	.9902
20	Sb2068	.0013	.0017	.0018	.9737	.1976	.9506
21	Sn1899	-.0007	.0000	.0003	2.078	Q.1864	.9844
22	Tl1908	.0037	.0030	.0008	1.079	.2016	1.041
23	V_2924	.0001	.0013	-.0011	.9916	.1917	.9689
24	Zn2062	.0001	.1520	.1067	1.088	Q.1778	.9610
25	Pb2203	.0004	.0015	.0015	1.019	Q.1760	.9517
26	Se1960	.0033	.0028	.0016	.9718	.2076	.9751

#	Element	ICB	05647	05647 D	05647 MS	056' MSD	05648
1	Ag3280	.0006	.0008	.0005	.9544	.8990	.0005
2	Al3082	-.0789	-.1706	-.1556	1.023	1.048	.4602
3	As1890	-.0005	-.0003	.0008	1.045	1.031	-.0058
4	Ba4934	.0003	.0347	.0347	1.060	1.059	.0499
5	Be3130	.0002	.0001	-.0000	1.067	1.036	.0005
6	Ca3179	-.0189	26.54	26.48	28.44	26.70	15.01
7	Cd2265	-.0019	-.0013	-.0014	.9848	.9571	.0008
8	Co2286	-.0025	-.0017	-.0012	1.011	.9855	.0010
9	Cr2677	-.0004	.0002	-.0002	.9926	.9601	.0046
10	Cu3247	-.0051	-.0012	-.0013	1.068	1.074	.0058
11	Fe2714	.0004	2.073	2.025	3.186	3.076	20.55
12	K_7664	.0017	4.026	3.942	14.67	14.48	4.071
13	Mg2790	-.0033	2.645	2.651	3.752	3.631	4.207
14	Mn2576	-.0001	.1634	.1634	1.181	1.145	.0838
15	Ni2316	.0055	.0054	.0043	.9833	.9623	.0044
16	2203/1	-.0061	-.0006	-.0012	.9964	.9781	.0039
17	2203/2	-.0020	-.0024	.0008	1.027	1.014	.0020
18	1960/1	.0080	.0058	.0083	.9773	.9603	.0038
19	1960/2	.0002	.0011	-.0017	1.011	1.006	-.0038
20	Sb2068	.0027	.0023	.0027	.9875	.9741	.0039
21	Sn1899	.0015	.0005	-.0008	2.079	2.045	.0016
22	Tl1908	.0021	.0014	.0001	1.100	1.092	.0193
23	V_2924	.0001	.0001	-.0011	.9970	.9742	.0036
24	Zn2062	-.0006	.1118	.1083	1.063	1.026	.0194
25	Pb2203	-.0044	-.0009	-.0003	1.007	.9901	.0035
26	Se1960	.0056	.0044	.0052	.9887	.9759	.0015

#	Element	05682	05684	05686	05687	05688	ICV 2
1	Ag3280	.0004	.0006	.0005	.0003	.0001	1.018
2	Al3082	.3661	.2836	.4442	1.436	1.579	Q1.155
3	As1890	-.0052	-.0023	-.0087	-.0023	-.0065	1.024
4	Ba4934	.1072	.1078	.0479	.0779	.0478	.9717
5	Be3130	.0001	-.0000	.0002	.0001	.0000	Q1.111
6	Ca3179	27.71	20.81	.9710	12.95	8.735	.9911
7	Cd2265	-.0008	-.0001	-.0009	-.0012	-.0013	.9676
8	Co2286	.0004	.0008	.0003	-.0006	.0002	.9893
9	Cr2677	.0001	.0004	.0023	.0021	.0015	.9846
10	Cu3247	.0004	.0029	.0043	.1311	.0344	.9957
11	Fe2714	.3831	8.042	.2605	-.0004	.7478	Q1.086
12	K_7664	11.72	34.88	.2808	1.140	1.601	Q7.829
13	Mg2790	7.679	8.618	.7263	5.132	2.234	Q.8801
14	Mn2576	.0198	.0997	.0104	.0026	.0247	.9909
15	Ni2316	.0029	.0059	.0044	.0049	.0043	.9552
16	2203/1	.0020	.0045	-.0001	.0089	.0029	.9731
17	2203/2	-.0008	-.0014	-.0003	.0083	.0006	.9986
18	1960/1	.0044	.0045	.0021	.0078	.0044	.9637
19	1960/2	-.0020	.0011	.0019	-.0023	-.0031	.9976
20	Sb2068	.0022	.0021	.0021	.0019	.0017	.9470
21	Sn1899	.0002	-.0022	-.0026	-.0003	-.0001	.9890
22	Tl1908	.0011	.0049	.0044	-.0030	.0009	1.038
23	V_2924	.0000	.0000	.0024	.0070	.0036	.9671
24	Zn2062	.0046	.1946	.0235	.0058	.0141	.9691
25	Pb2203	.0013	.0028	.0001	.0089	.0024	.9819
26	Se1960	.0025	.0036	.0022	.0046	.0021	.9752

#	Element	ICV 1	ICV 2	ICB	05689	05690	05691
1	Ag3280	.2042	1.040	.0009	-.0026	.0001	.0003
2	Al3082	Q.2572	1.035	.1230	-.9334	-.2273	.1498
3	As1890	.2030	1.049	-.0012	-.0051	-.0001	-.0026
4	Ba4934	.1949	.9947	.0004	.2169	.0158	.0428
5	Be3130	Q.2229	Q1.081	.0004	-.0001	-.0001	-.0001
6	Ca3179	Q.1873	.9965	-.0190	128.2	38.86	10.55
7	Cd2265	.1939	.9926	.0000	.0046	-.0009	-.0009
8	Co2286	.1989	1.013	.0013	.0248	.0166	-.0003
9	Cr2677	.1969	1.005	.0002	-.0005	-.0000	.0036
10	Cu3247	.1937	1.019	-.0046	.0277	.0112	-.0027
11	Fe2714	Q.2228	Q1.095	-.0274	47.13	3.550	.2465
12	K_7664	Q1.463	Q8.632	.0167	6.324	2.650	1.154
13	Mg2790	Q.1782	Q.8972	-.0001	41.49	12.82	3.937
14	Mn2576	.1988	1.015	.0000	18.94	1.921	.0116
15	Ni2316	.1938	.9784	.0029	.0140	.0076	.0054
16	2203/1	.1916	.9901	-.0000	.0067	.0007	.0006
17	2203/2	.2002	1.018	-.0013	.0004	-.0008	-.0002
18	1960/1	.1947	.9822	.0087	.0066	.0042	.0036
19	1960/2	.1946	1.026	-.0037	-.0082	.0007	.0002
20	Sb2068	.1913	.9620	.0013	.0043	.0028	.0022
21	Sn1899	.1968	1.030	-.0021	-.0024	-.0029	.0001
22	Tl1908	Q.2124	Q1.066	.0005	.0320	.0031	.0033
23	V_2924	.1951	.9916	.0013	.0016	.0034	.0012

#	Element	ICV 1	ICV 2	ICB	05689	05690	05691
24	Zn2062	.1945	.9876	.0004	.0158	.0060	.0088
25	Pb2203	.1947	.9996	-.0002	.0049	.0004	.0006
26	Se1960	.1949	.9971	.0048	.0018	.0033	.0027

#	Element	05692	05692 D	05692 MS	056' MSD	056':4SD	056'1MSA
1	Ag3280	.0004	.0004	1.094	1.079	.0044	.2099
2	Al3082	1.714	1.741	4.397	4.378	-.2819	.3271
3	As1890	-.0058	-.0030	1.082	1.059	.0089	.2047
4	Ba4934	.0342	.0322	1.076	1.060	.0197	.2198
5	Be3130	-.0001	-.0000	1.134	1.111	.0023	.2249
6	Ca3179	7.032	6.638	8.192	7.794	6.726	7.468
7	Cd2265	-.0008	-.0007	1.026	1.010	.0031	.1977
8	Co2286	.0023	.0016	1.056	1.039	.0093	.2057
9	Cr2677	.0032	.0030	1.040	1.028	-.0023	.2032
10	Cu3247	.0004	-.0004	1.088	1.071	-.0181	.2028
11	Fe2714	2.625	2.580	4.054	4.015	13.86	16.40
12	K_7664	1.173	1.092	10.79	10.54	1.584	3.251
13	Mg2790	3.939	3.733	4.936	4.747	2.546	3.098
14	Mn2576	.1503	.1419	1.205	1.183	.5059	.2239
15	Ni2316	.0048	.0044	1.016	1.003	.0286	.2010
16	2203/1	.0036	.0041	1.038	1.015	.0135	.2045
17	2203/2	-.0001	-.0001	1.074	1.051	-.0020	.2016
18	1960/1	.0041	.0032	.9881	.9592	.1034	.2025
19	1960/2	-.0001	-.0013	1.037	1.006	-.0527	.2017
20	Sb2068	.0018	.0032	1.002	.9865	-.0135	.1927
21	Sn1899	-.0023	-.0017	2.169	2.131	.0282	.2056
22	Tl1908	.0023	.0039	1.123	1.104	.0410	.2349
23	V_2924	.0083	.0070	1.039	1.023	.0008	.2040
24	Zn2062	.0316	.0068	1.031	1.005	1.772	.2116
25	Pb2203	.0026	.0030	1.050	1.027	.0096	.2040
26	Se1960	.0029	.0019	1.005	.9749	.0524	.2027

#	Element	ICV 2	ICV 1	ICB	SS I	SS I LOW	ICS A
1	Ag3280	1.031	.2014	.0008	Q.0016	.0008	.0008
2	Al3082	1.032	Q.2650	.1729	Q-.0034	-.0877	52.34
3	As1890	1.029	.2084	-.0026	.0434	.0081	-.0002
4	Ba4934	.9821	.1950	.0003	.0404	.0105	.0004
5	Be3130	Q1.071	Q.2225	.0003	.0011	.0003	.0001
6	Ca3179	.9967	Q.1841	-.0177	.0688	.0027	48.62
7	Cd2265	.9882	.1943	-.0000	.0011	-.0001	.0038
8	Co2286	1.004	.1976	.0010	.0114	Q.0037	.0019
9	Cr2677	1.002	.1960	-.0001	.0034	Q.0004	.0005
10	Cu3247	1.003	.1925	-.0045	Q-.0001	-.0038	Q.0262
11	Fe2714	Q1.085	Q.2146	-.0207	Q.0265	.0261	48.13
12	K_7664	Q8.358	Q1.447	.0129	-.0106	.0059	Q.2249
13	Mg2790	Q.8889	Q.1761	.0028	.0132	.0043	45.42
14	Mn2576	1.006	.1977	-.0001	.0102	.0024	.0012
15	Ni2316	.9714	.1937	.0039	Q.0131	Q.0064	.0046
16	2203/1	.9833	.1922	.0015	.0114	.0047	.0200
17	2203/2	1.014	.1965	.0000	.0111	.0017	.0013

#	Element	ICV 2	ICV 1	ICB	SS I	SS I LOW	ICS A
18	1960/1	.9805	.1957	.0060	.0523	.0155	.0165
19	1960/2	1.017	.1934	-.0036	.0349	.0077	-.0069
20	Sb2068	.9557	.1921	.0005	.0089	.0032	.0051
21	Sn1899	1.025	.2006	.0000	.0000	-.0024	.0027
22	Tl1908	Q1.057	.2042	.0005	.0446	Q.0122	Q.0377
23	V_2924	.9858	.1903	.0001	.0105	Q.0047	.0013
24	Zn2062	.9853	.1944	.0007	.0111	.0032	.0032
25	Pb2203	.9938	.1939	.0013	.0116	Q.0039	.0140
26	Se1960	.9927	.1952	.0030	.0467	Q.0131	.0086

#	Element	ICS AB
1	Ag3280	.3250
2	Al3082	56.28
3	As1890	1.079
4	Ba4934	.2987
5	Be3130	.1076
6	Ca3179	51.29
7	Cd2265	.3026
8	Co2286	.3062
9	Cr2677	.3009
10	Cu3247	.3460
11	Fe2714	51.18
12	K_7664	23.02
13	Mg2790	48.43
14	Mn2576	.2043
15	Ni2316	.3002
16	2203/1	1.048
17	2203/2	1.068
18	1960/1	.5347
19	1960/2	.5415
20	Sb2068	1.030
21	Sn1899	1.057
22	Tl1908	1.169
23	V_2924	.3035
24	Zn2062	.2974
25	Pb2203	1.055
26	Se1960	.5369

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\010201\01020108.D Vial: 8
Acq On : 2 Jan 2001 17:02 Operator: MT
Sample : AC05535 Inst : DRO-B
Misc : 26563 1000mL Multiplr: 1.00
IntFile : events.e
Quant Time: Jan 2 17:57 2001 Quant Results File: PRO1208.RES

Quant Method : C:\HPCHEM\2\METHODS\PRO1208.M (Chemstation Integrator)
Title : FLORIDA PRO BY GC; INST. #2
Last Update : Tue Jan 02 11:40:23 2001
Response via : Initial Calibration
DataAcq Meth : PRO1208.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) SC o-TERPHENYL	19.10	1356729	29.384 ug/mlm
Spiked Amount 50.000	Recovery =		58.77% x MT
3) SC C(39)	34.37	1922713	43.767 ug/mlm
Spiked Amount 300.000	Recovery =		14.59% x MT
Target Compounds			
1) HM Florida PRO	3.70	26529792	466.454 ug/ml / 1000 =

0.475 B ppm
MT

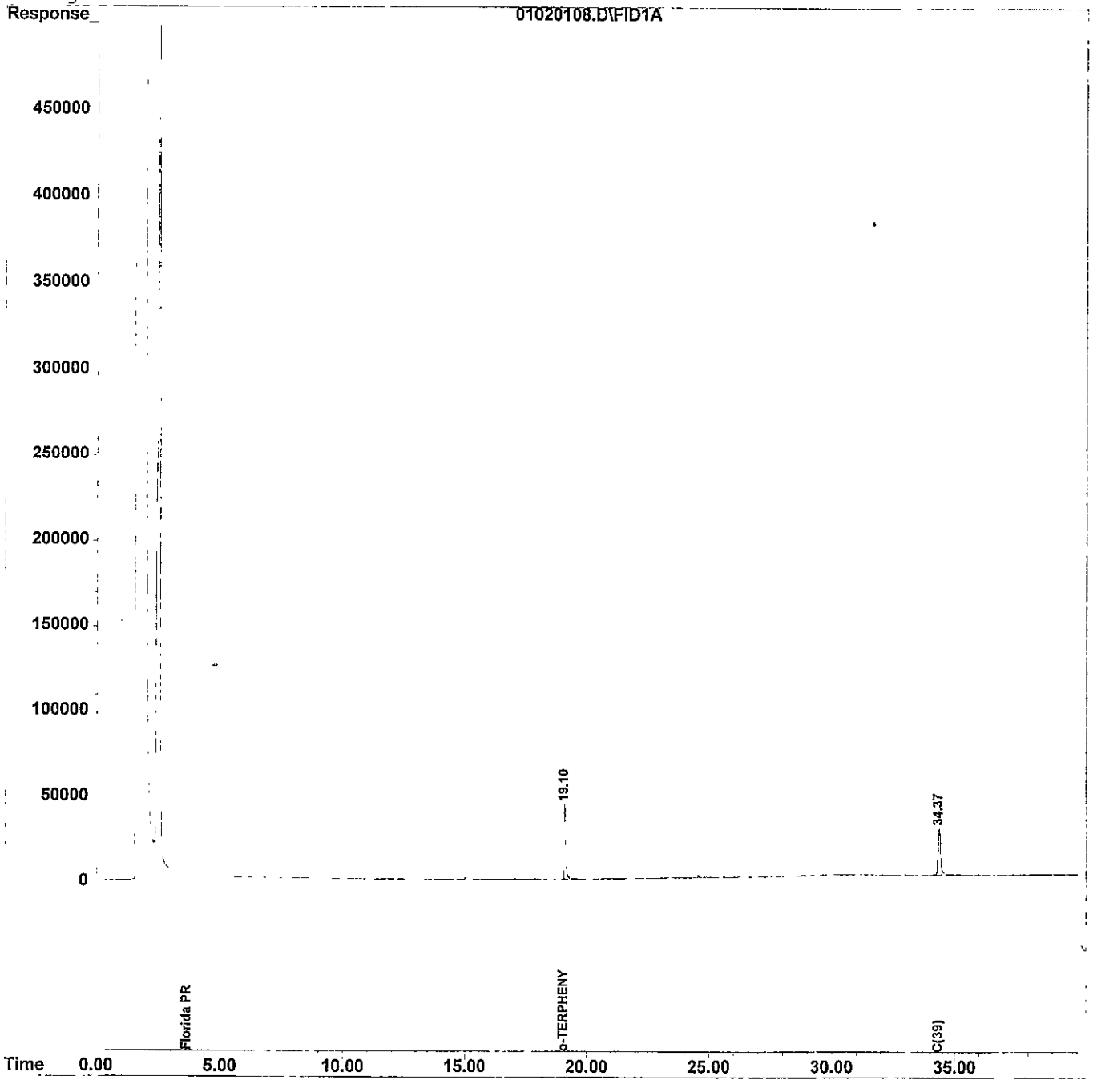
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\2\DATA\010201\01020108.D Vial: 8
Acq On : 2 Jan 2001 17:02 Operator: MT
Sample : AC05535 Inst : DRO-B
Misc : 26563 1000mL Multiplr: 1.00
IntFile : events.e
Quant Time: Jan 2 17:57 2001 Quant Results File: PRO1208.RES

Quant Method : C:\HPCHEM\2\METHODS\PRO1208.M (Chemstation Integrator)
Title : FLORIDA PRO BY GC; INST. #2
Last Update : Tue Jan 02 11:40:23 2001
Response via : Multiple Level Calibration
DataAcq Meth : PRO1208.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\122900\C18253.D Vial: 4
Acq On : 29 Dec 2000 17:19 Operator: TAG/VR
Sample : AC05535 25ml DF=1 Inst : VOA-C
Misc : 26562/C12140025 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 29 17:45 2000 Quant Results File: 12290025.RES

Quant Method : c:\hpchem\1\data\122900\12290025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Fri Dec 29 10:24:33 2000
Response via : Initial Calibration
DataAcq Meth : 12290025

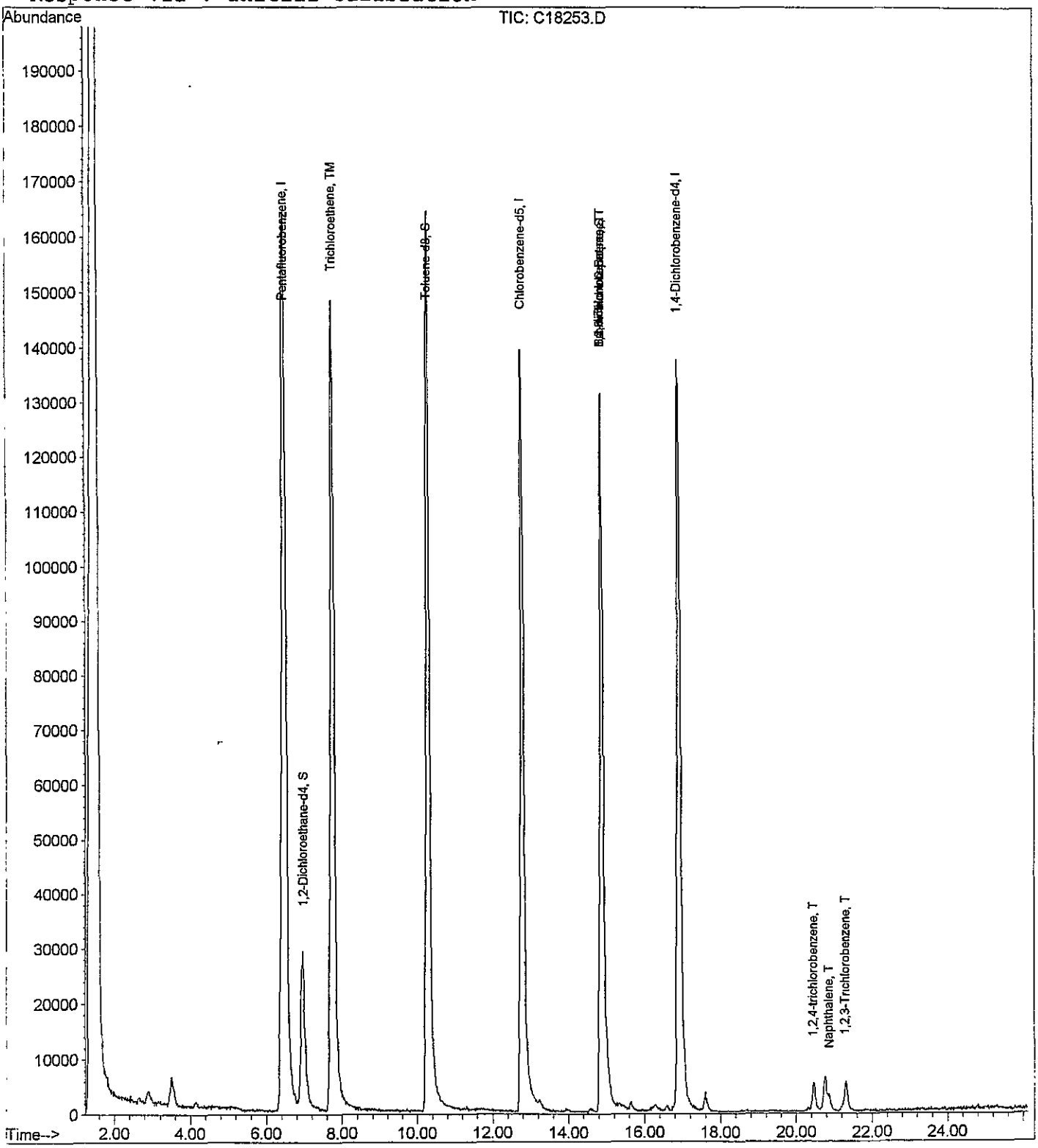
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Pentafluorobenzene	6.47	168	480379	10.00 ug\L	0.00
45) Chlorobenzene-d5	12.79	117	312091	10.00 ug\L	0.02
61) 1,4-Dichlorobenzene-d4	16.90	152	154548	10.00 ug\L	0.00
System Monitoring Compounds					
32) 1,2-Dichloroethane-d4	6.96	65	78265	8.21 ug\L	0.02
Spiked Amount 10.000	Range 80 - 120		Recovery = 82.10%		
46) Toluene-d8	10.27	98	426695	9.23 ug\L	-0.01
Spiked Amount 10.000	Range 87 - 104		Recovery = 92.30%		
65) Bromofluorobenzene	14.86	95	200310	9.35 ug\L	-0.01
Spiked Amount 10.000	Range 84 - 110		Recovery = 93.50%		
Target Compounds					Qvalue
34) Isobutyl alcohol	7.09	43	76	~~26.41 ug\L #~~	17
36) Trichloroethene	7.76	95	12547	~~0.55 ug\L #~~	9
64) 1,4-dichloro-2-Butene	14.86	75	100632	~~21.01 ug\L #~~	100
68) 1,2,3-Trichloropropane	14.86	75	100632	~~21.01 ug\L #~~	100
83) 1,2,4-trichlorobenzene	20.46	180	7925	0.57 ug\L	100
85) Naphthalene	20.88	128	11777	2.01 ug\L	100
86) 1,2,3-Trichlorobenzene	21.32	180	8839	0.91 ug\L #	87

VR
01/02/01

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

Data File : C:\HPCHEM\1\DATA\122900\C18253.D Vial: 4
Acq On : 29 Dec 2000 17:19 Operator: TAG/VR
Sample : AC05535 25ml DF=1 Inst : VOA-C
Misc : 26562/C12140025 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 29 17:45 2000 Quant Results File: 12290025.RES

Method : c:\hpchem\1\data\122900\12290025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Fri Dec 29 08:48:11 2000
Response via : Initial Calibration



1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
029-SMW01-Q4

Lab Name: Accura Analytical Lab. Contract: _____

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

Matrix: (soil/water) WATER Lab Sample ID: AC05535

Sample wt/vol: 25.0 (g/ml) ML Lab File ID: C18253.D

Level: (low/med) LOW Date Received: 12/21/00

% Moisture: not dec. _____ Date Analyzed: 12/29/00

GC Column: DB-624 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 NAME	RT	EST. CONC.	Q

LSC Area Percent Report

Data File : C:\HPCHEM\1\DATA\122900\C18253.D Vial: 4
Acq On : 29 Dec 2000 17:19 Operator: TAG/VR
Sample : AC05535 25ml DF=1 Inst : VOA-C
Misc : 26562/C12140025 Multiplr: 1.00
MS Integration Params: LSCINT.P

Method : c:\hpchem\1\data\122900\12290025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Smoothing : OFF Filtering: 5
Sampling : 1 Min Area: 1 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Signal : TIC

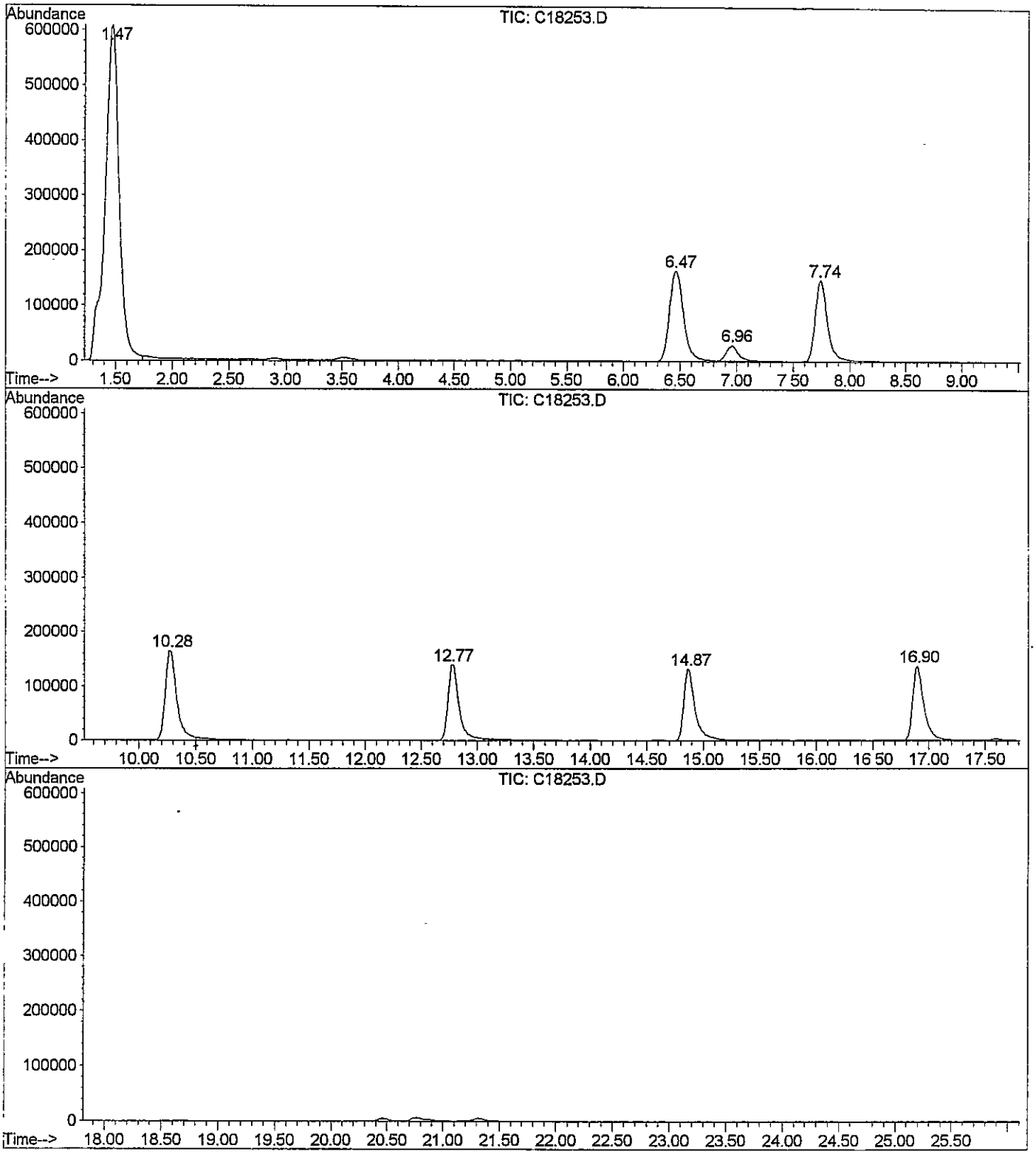
peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	peak area	peak % max.	% of total
1	1.472	3	26	53	rBV	608216	5203155	100.00%	44.119%
2	6.472	513	533	559	rBV2	164348	1416340	27.22%	12.009%
3	6.965	569	583	600	rBV4	27295	191513	3.68%	1.624%
4	7.744	645	662	689	rBV2	148003	1102567	21.19%	9.349%
5	10.278	903	919	942	rBV	164247	1128916	21.70%	9.572%
6	12.773	1161	1172	1202	rBV3	139150	935623	17.98%	7.933%
7	14.874	1371	1385	1419	rBV2	131373	891965	17.14%	7.563%
8	16.896	1575	1590	1617	rBV	136597	923455	17.75%	7.830%

Sum of corrected areas: 11793534

C18253.D 12290025.M Thu Jan 04 10:19:07 2001 RPT1

LSC Report - Integrated Chromatogram

File : C:\HPCHEM\1\DATA\122900\C18253.D
Operator : TAG/VR
Acquired : 29 Dec 2000 17:19 using AcqMethod 12290025
Instrument : VOA-C
Sample Name: AC05535 25ml DF=1
Misc Info : 26562/C12140025
Vial Number: 4
Quant File :12290025.RES (RTE Integrator)



C18253.D 12290025.M Thu Jan 04 10:19:08 2001 RPT1

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\122900\C18253.D
Acq On : 29 Dec 2000 17:19
Sample : AC05535 25ml DF=1
Misc : 26562/C12140025
MS Integration Params: LSCINT.P

Vial: 4
Operator: TAG/VR
Inst : VOA-C
Multiplr: 1.00

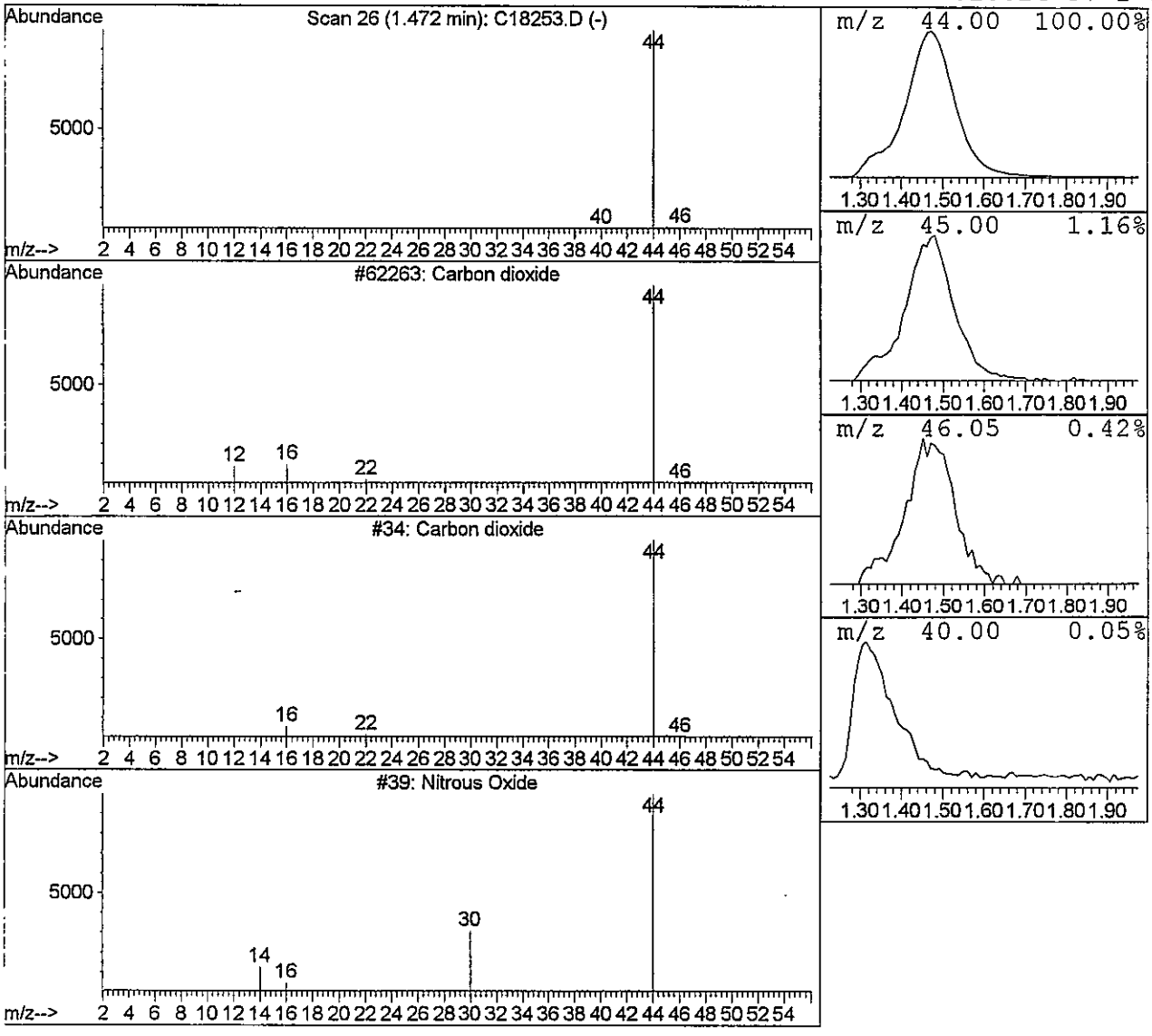
Quant Method : c:\hpchem\1\data\122900\12290025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Library : C:\DATABASE\NBS75K.L

****

Peak Number 1 Carbon dioxide Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
1.47	36.74 ug\L	5203160	Pentafluorobenzene	6.47

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Carbon dioxide	44	CO2	000124-38-9	4
2	Carbon dioxide	44	CO2	000124-38-9	4
3	Nitrous Oxide	44	N2O	010024-97-2	3
4	Nitrous Oxide	44	N2O	010024-97-2	3



Data File : C:\HPCHEM\1\DATA\122900\C18253.D
Acq On : 29 Dec 2000 17:19
Sample : AC05535 25ml DF=1
Misc : 26562/C12140025
MS Integration Params: LSCINT.P

Vial: 4
Operator: TAG/VR
Inst : VOA-C
Multiplr: 1.00

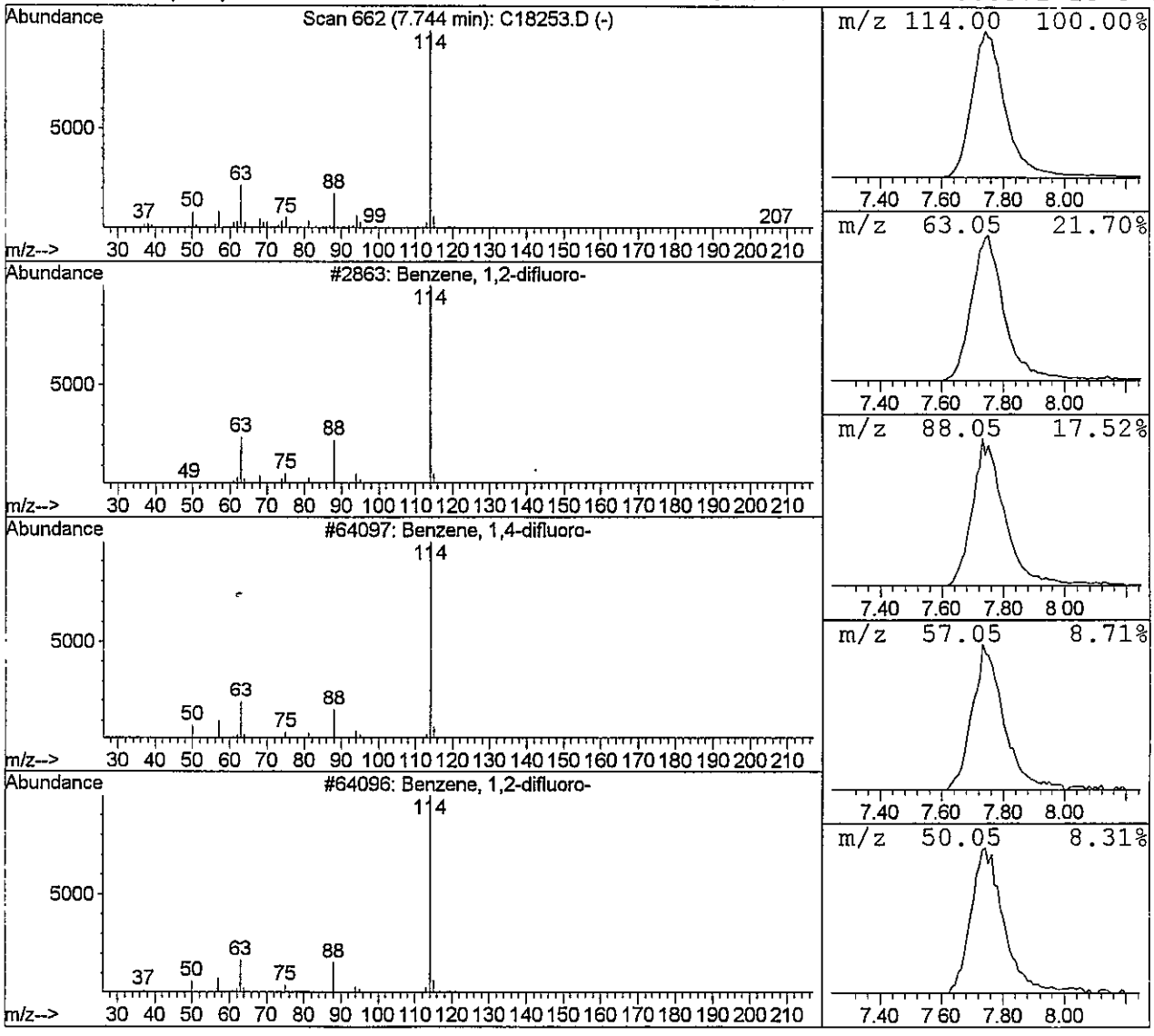
Quant Method : c:\hpchem\1\data\122900\12290025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Library : C:\DATABASE\NBS75K.L

****

Peak Number 2 Benzene, 1,2-difluoro- Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.74	7.78 ug\L	1102570	Pentafluorobenzene	6.47

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1,2-difluoro-	114	C6H4F2	000367-11-3	97
2	Benzene, 1,4-difluoro-	114	C6H4F2	000540-36-3	97
3	Benzene, 1,2-difluoro-	114	C6H4F2	000367-11-3	95
4	Benzene, 1,3-difluoro-	114	C6H4F2	000372-18-9	95



Tentatively Identified Compound (LSC) summary

Operator ID: TAG/VR Date Acquired: 29 Dec 2000 17:19
Data File: C:\HPCHEM\1\DATA\122900\C18253.D
Name: AC05535 25ml DF=1
Misc: 26562/C12140025
Method: c:\hpchem\1\data\122900\12290025.M (RTE Integrator)
Title: 8260 CALIBRATION FOR 25ML WATER
Library Searched: C:\DATABASE\NBS75K.L

TIC Top Hit name	RT	EstConc	Units	Area	IntStd	ISRT	ISArea	ISConc
Carbon dioxide	1.47	36.7	ug\L	5203160	ISTD01	6.47	1416340	10.0
Benzene, 1,2-difluor	7.74	7.8	ug\L	1102570	ISTD01	6.47	1416340	10.0

C18253.D 12290025.M Thu Jan 04 10:19:12 2001 RPT1

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\010201\01020109.D Vial: 9
Acq On : 2 Jan 2001 17:51 Operator: MT
Sample : AC05536 Inst : DRO-B
Misc : 26563 1000mL Multiplr: 1.00
IntFile : events.e
Quant Time: Jan 2 18:39 2001 Quant Results File: PRO1208.RES

Quant Method : C:\HPCHEM\2\METHODS\PRO1208.M (Chemstation Integrator)
Title : FLORIDA PRO BY GC; INST. #2
Last Update : Tue Jan 02 11:40:23 2001
Response via : Initial Calibration
DataAcq Meth : PRO1208.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) SC o-TERPHENYL	19.10	1401907	30.362 ug/mlm
Spiked Amount 50.000	Recovery =		60.72% x MT
3) SC C(39)	34.36	827250	18.831 ug/mlm
Spiked Amount 300.000	Recovery =		6.28% x MT
Target Compounds			
1) HM Florida PRO	3.70	33094204	581.871 ug/ml /1000 =

0.58 JB ppm
MT

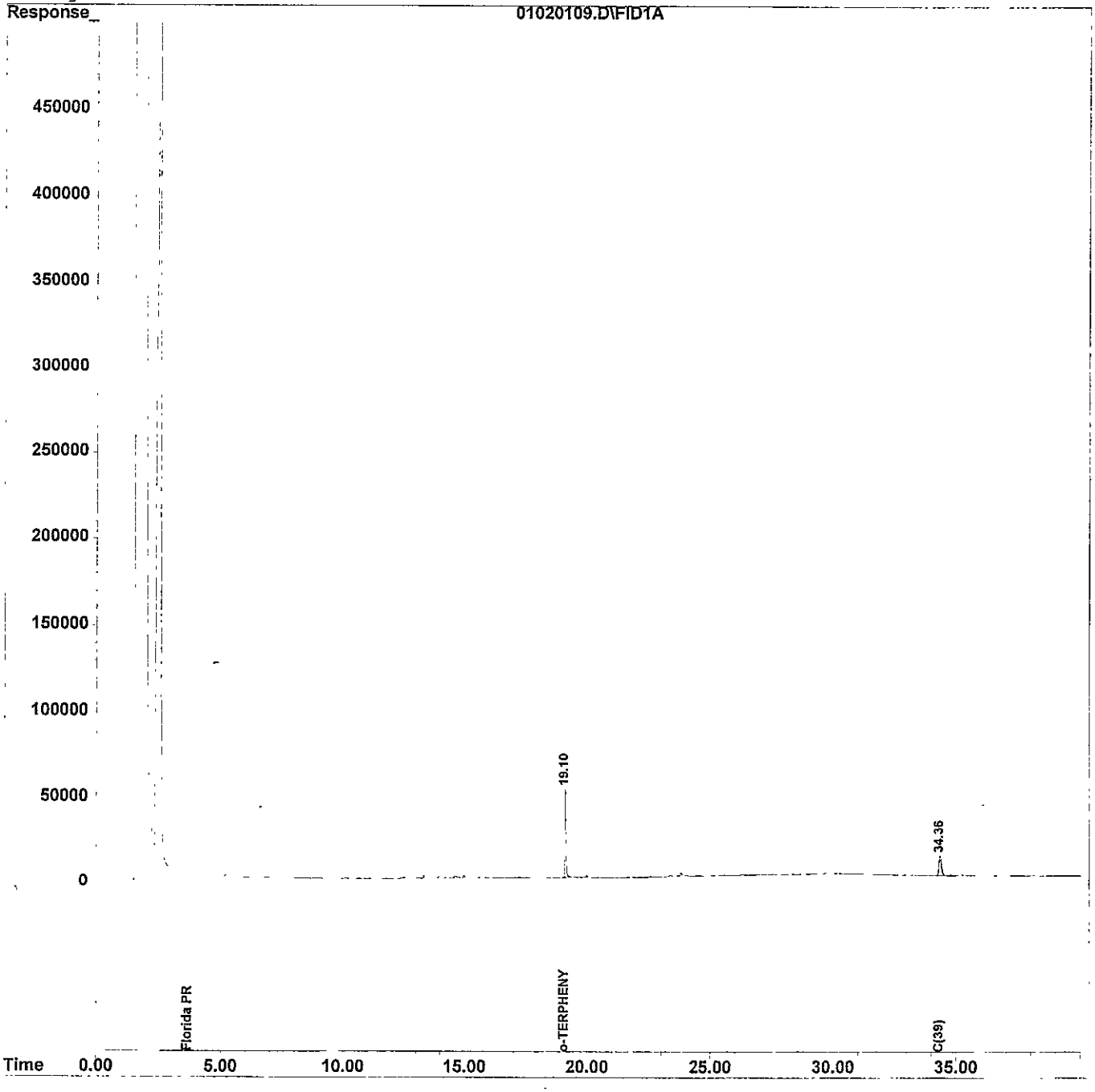
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\2\DATA\010201\01020109.D Vial: 9
Acq On : 2 Jan 2001 17:51 Operator: MT
Sample : AC05536 Inst : DRO-B
Misc : 26563 1000mL Multiplr: 1.00
IntFile : events.e
Quant Time: Jan 2 18:39 2001 Quant Results File: PRO1208.RES

Quant Method : C:\HPCHEM\2\METHODS\PRO1208.M (Chemstation Integrator)
Title : FLORIDA PRO BY GC; INST. #2
Last Update : Tue Jan 02 11:40:23 2001
Response via : Multiple Level Calibration
DataAcq Meth : PRO1208.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\122900\C18267.D Vial: 3
Acq On : 30 Dec 2000 00:52 Operator: TAG/VR
Sample : AC05536 25ml DF=1 Inst : VOA-C
Misc : 26563/C12140025 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 30 1:19 2000 Quant Results File: 12290025.RES

Quant Method : c:\hpchem\1\data\122900\12290025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Fri Dec 29 10:24:33 2000
Response via : Initial Calibration
DataAcq Meth : 12290025

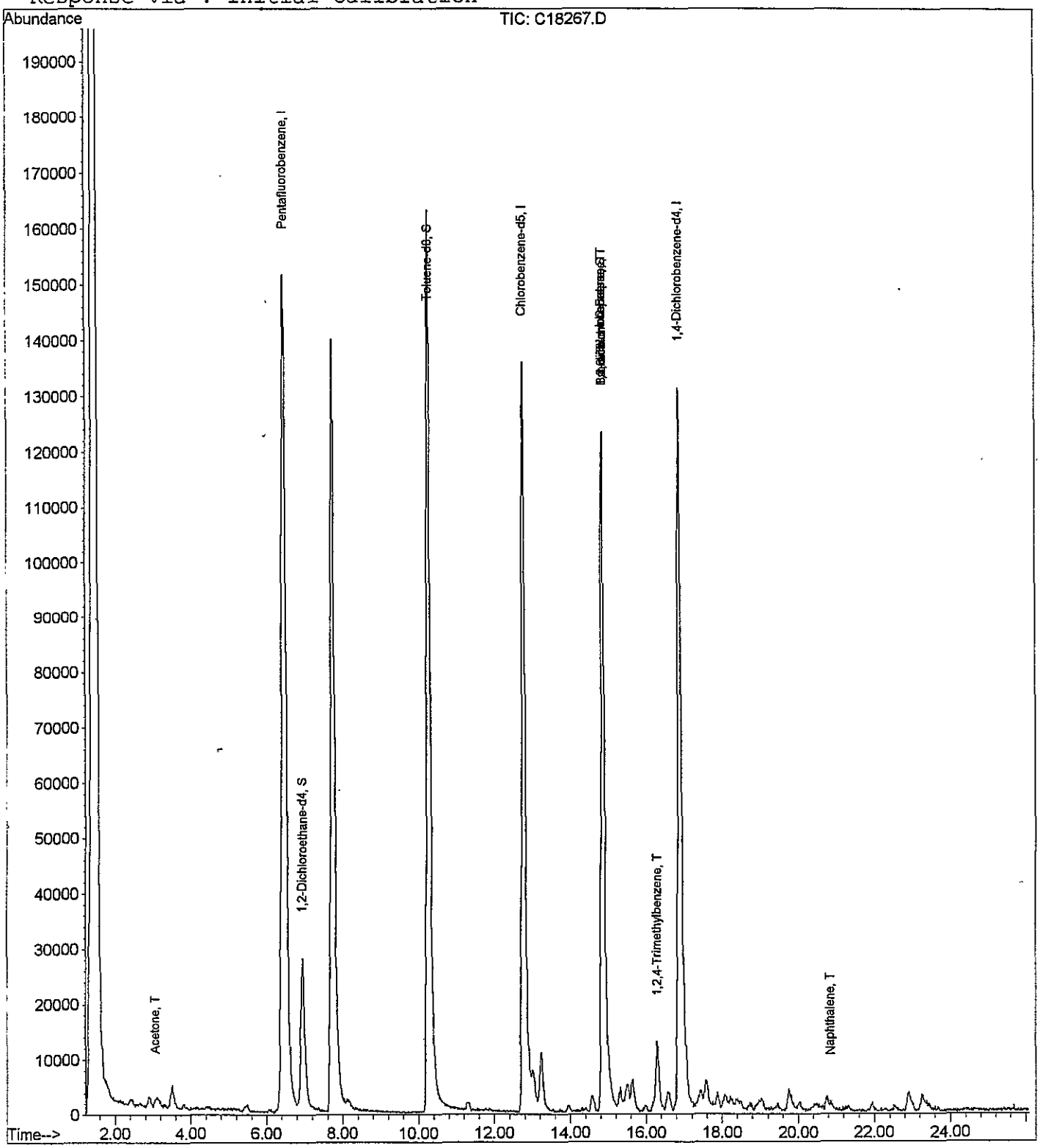
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Pentafluorobenzene	6.47	168	435425	10.00 ug\L	0.00
45) Chlorobenzene-d5	12.77	117	299821	10.00 ug\L	0.00
61) 1,4-Dichlorobenzene-d4	16.90	152	144712	10.00 ug\L	0.01
System Monitoring Compounds					
32) 1,2-Dichloroethane-d4	6.96	65	73708	8.53 ug\L	0.01
Spiked Amount 10.000	Range 80 - 120		Recovery = 85.30%		
46) Toluene-d8	10.28	98	427453	9.63 ug\L	0.00
Spiked Amount 10.000	Range 87 - 104		Recovery = 96.30%		
65) Bromofluorobenzene	14.87	95	187372	9.34 ug\L	0.00
Spiked Amount 10.000	Range 84 - 110		Recovery = 93.40%		
Target Compounds					Qvalue
11) Acetone	3.07	58	60	~~2.24 ug\L~~ #	1
64) 1,4-dichloro-2-Butene	14.87	75	92300	~~20.58 ug\L~~ #	100
68) 1,2,3-Trichloropropane	14.87	75	92300	~~20.58 ug\L~~ #	100
75) 1,2,4-Trimethylbenzene	16.30	105	32330	0.64 ug\L	86
85) Naphthalene	20.86	128	5698	1.50 ug\L	100

VR
01/02/2001

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

Data File : C:\HPCHEM\1\DATA\122900\C18267.D Vial: 3
Acq On : 30 Dec 2000 00:52 Operator: TAG/VR
Sample : AC05536 25ml DF=1 Inst : VOA-C
Misc : 26563/C12140025 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 30 1:19 2000 Quant Results File: 12290025.RES

Method : c:\hpchem\1\data\122900\12290025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Fri Dec 29 08:48:11 2000
Response via : Initial Calibration



1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

029-SMW02-Q4

Lab Name: Accura Analytical Lab. Contract: _____

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

Matrix: (soil/water) WATER Lab Sample ID: AC05536

Sample wt/vol: 25.0 (g/ml) ML Lab File ID: C18267.D

Level: (low/med) LOW Date Received: 12/21/00

% Moisture: not dec. _____ Date Analyzed: 12/30/00

GC Column: DB-624 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 NAME	RT	EST. CONC.	Q

LSC Area Percent Report

Data File : C:\HPCHEM\1\DATA\122900\C18267.D Vial: 3
Acq On : 30 Dec 2000 00:52 Operator: TAG/VR
Sample : AC05536 25ml DF=1 Inst : VOA-C
Misc : 26563/C12140025 Multiplr: 1.00
MS Integration Params: LSCINT.P

Method : c:\hpchem\1\data\122900\12290025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Smoothing : OFF Filtering: 5
Sampling : 1 Min Area: 1 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Signal : TIC

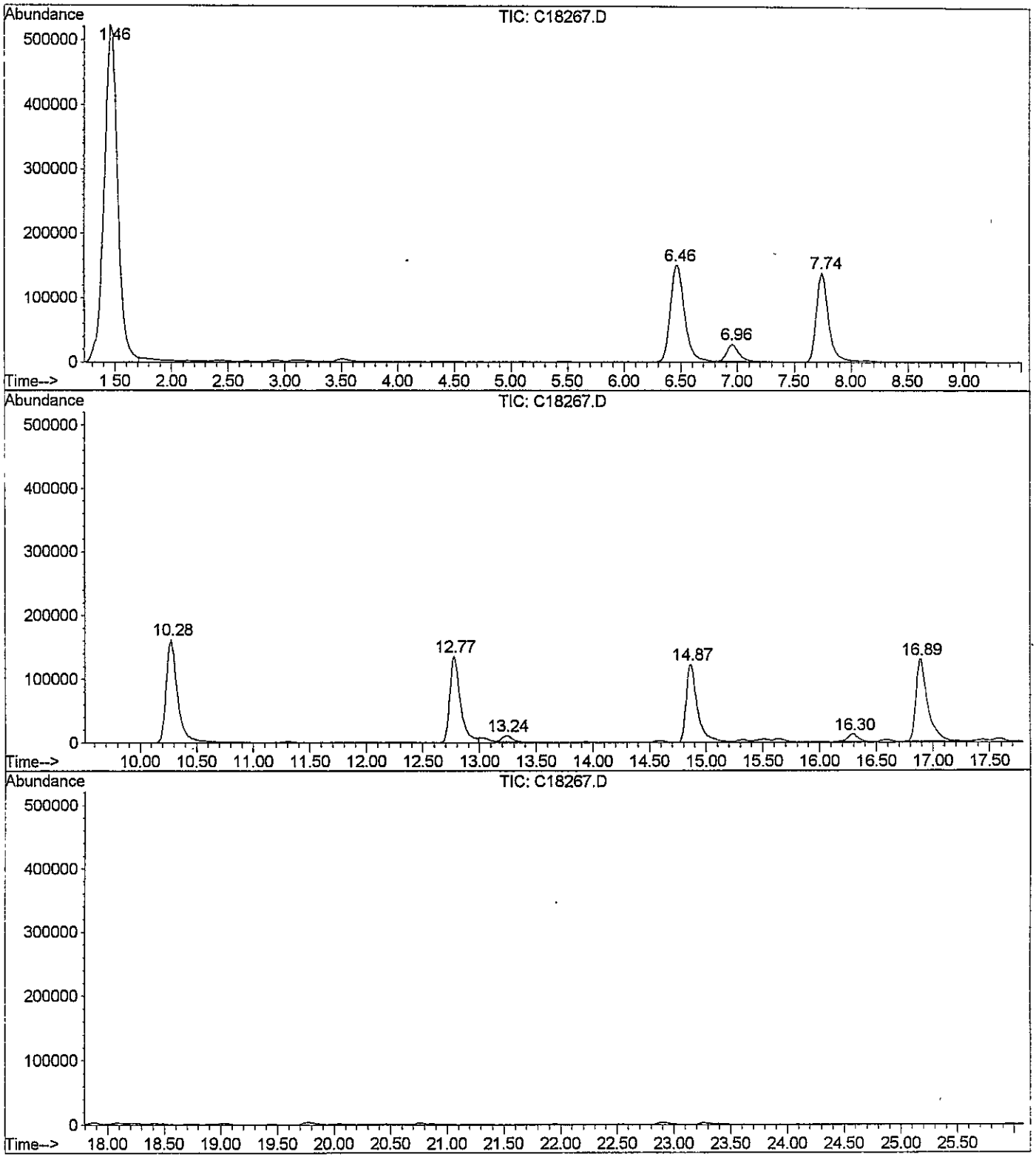
peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	peak area	peak % max.	% of total
1	1.463	3	25	50	rBV	522464	4304670	100.00%	40.255%
2	6.463	513	532	566	rBV2	150867	1304259	30.30%	12.197%
3	6.956	569	582	602	rVB2	26824	188347	4.38%	1.761%
4	7.745	646	662	688	rBV	139612	1017858	23.65%	9.518%
5	10.279	903	919	955	rBV2	162913	1124072	26.11%	10.512%
6	12.774	1159	1172	1194	rBV3	135568	890855	20.70%	8.331%
7	13.238	1208	1219	1230	rVB2	9556	55297	1.28%	0.517%
8	14.865	1372	1384	1414	rBV3	122889	828262	19.24%	7.745%
9	16.295	1518	1529	1540	rVB2	11340	64553	1.50%	0.604%
10	16.887	1577	1589	1620	rBV	129827	915378	21.26%	8.560%

Sum of corrected areas: 10693551

C18267.D 12290025.M Thu Jan 04 10:20:02 2001 RPT1

LSC Report - Integrated Chromatogram

File : C:\HPCHEM\1\DATA\122900\C18267.D
Operator : TAG/VR
Acquired : 30 Dec 2000 00:52 using AcqMethod 12290025
Instrument : VOA-C
Sample Name: AC05536 25ml DF=1
Misc Info : 26563/C12140025
Vial Number: 3
Quant File :12290025.RES (RTE Integrator)



C18267.D 12290025.M Thu Jan 04 10:20:03 2001 RPT1

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\122900\C18267.D
Acq On : 30 Dec 2000 00:52
Sample : AC05536 25ml DF=1
Misc : 26563/C12140025
MS Integration Params: LSCINT.P

Vial: 3
Operator: TAG/VR
Inst : VOA-C
Multiplr: 1.00

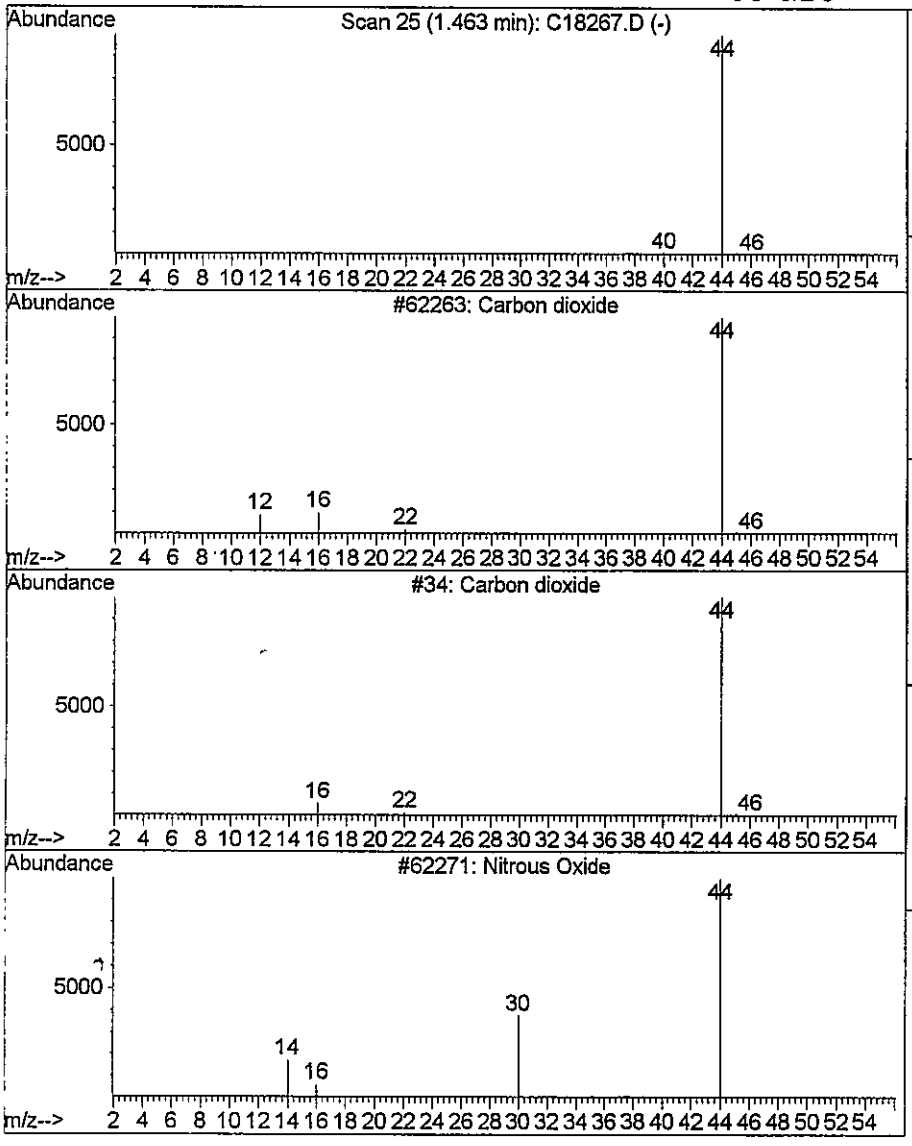
Quant Method : c:\hpchem\1\data\122900\12290025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Library : C:\DATABASE\NBS75K.L

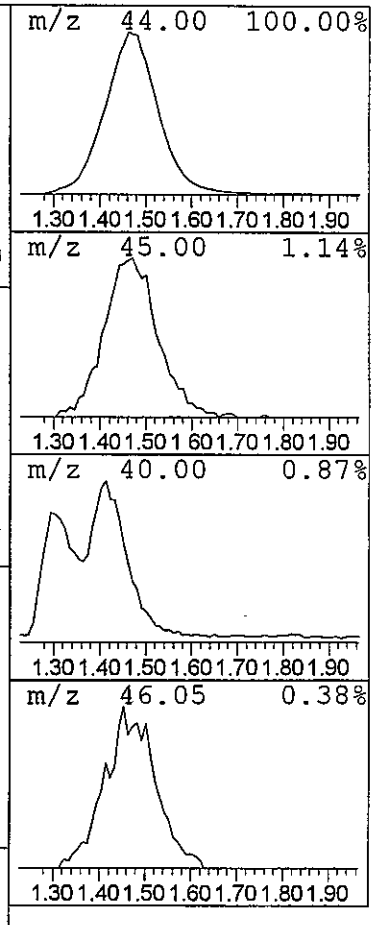
****

Peak Number 1 Carbon dioxide Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
1.46	33.00 ug\L	4304670	Pentafluorobenzene	6.47

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Carbon dioxide	44	CO2	000124-38-9	4
2	Carbon dioxide	44	CO2	000124-38-9	4
3	Nitrous Oxide	44	N2O	010024-97-2	3
4	Nitrous Oxide	44	N2O	010024-97-2	3





Data File : C:\HPCHEM\1\DATA\122900\C18267.D
Acq On : 30 Dec 2000 00:52
Sample : AC05536 25ml DF=1
Misc : 26563/C12140025
MS Integration Params: LSCINT.P

Vial: 3
Operator: TAG/VR
Inst : VOA-C
Multiplr: 1.00

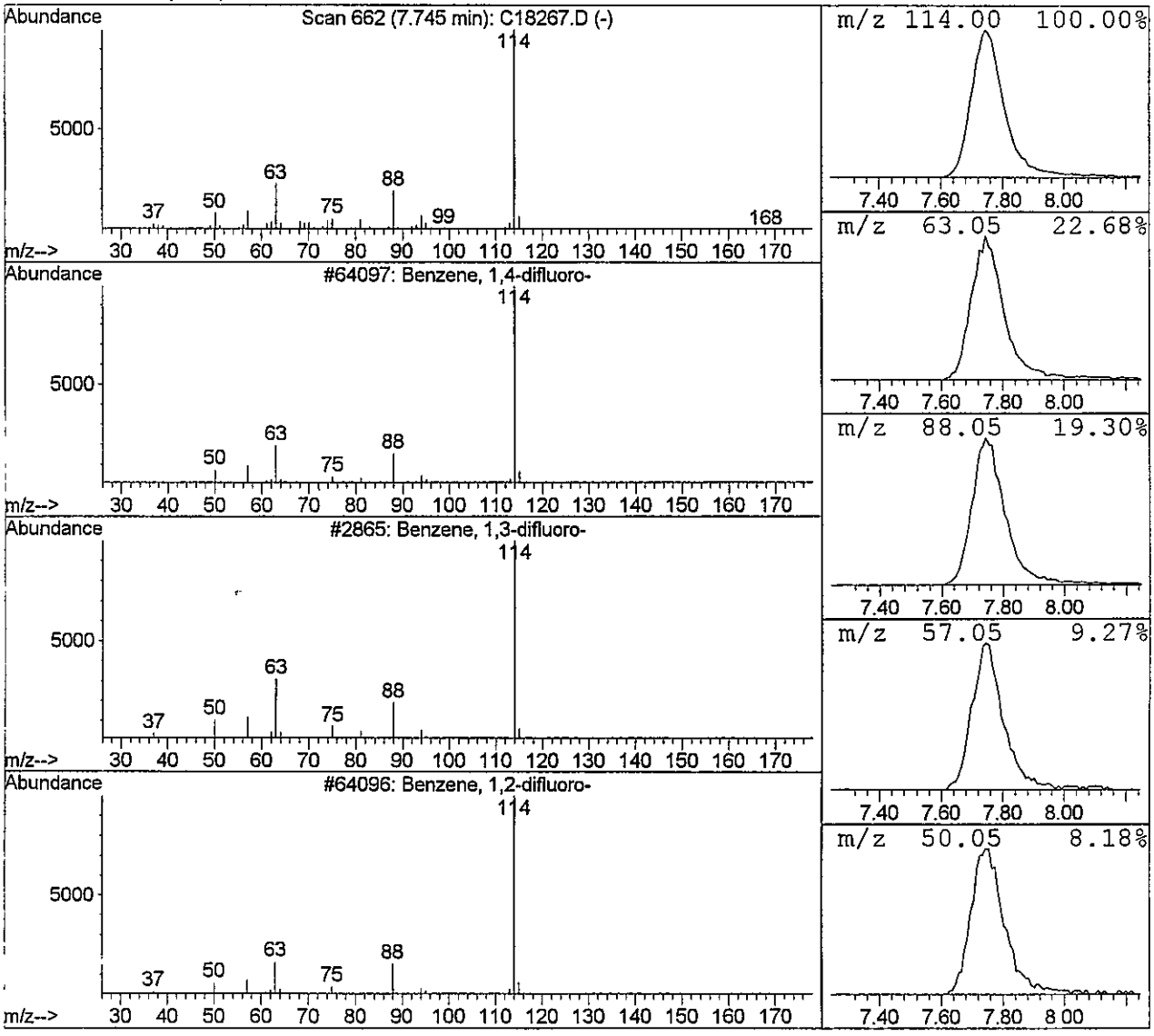
Quant Method : c:\hpchem\1\data\122900\12290025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Library : C:\DATABASE\NBS75K.L

****

Peak Number 2 Benzene, 1,4-difluoro- Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.74	7.80 ug\L	1017860	Pentafluorobenzene	6.47

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1,4-difluoro-	114	C6H4F2	000540-36-3	97
2	Benzene, 1,3-difluoro-	114	C6H4F2	000372-18-9	96
3	Benzene, 1,2-difluoro-	114	C6H4F2	000367-11-3	95
4	Benzene, 1,2-difluoro-	114	C6H4F2	000367-11-3	95



Tentatively Identified Compound (LSC) summary

Operator ID: TAG/VR Date Acquired: 30 Dec 2000 00:52
Data File: C:\HPCHEM\1\DATA\122900\C18267.D
Name: AC05536 25ml DF=1
Misc: 26563/C12140025
Method: c:\hpchem\1\data\122900\12290025.M (RTE Integrator)
Title: 8260 CALIBRATION FOR 25ML WATER
Library Searched: C:\DATABASE\NBS75K.L

TIC Top Hit name	RT	EstConc	Units	Area	IntStd	ISRT	ISArea	ISConc
Carbon dioxide	1.46	33.0	ug\L	4304670	ISTD01	6.47	1304260	10.0
Benzene, 1,4-difluor	7.74	7.8	ug\L	1017860	ISTD01	6.47	1304260	10.0

C18267.D 12290025.M Thu Jan 04 10:20:07 2001 RPT1

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\122900\C18255.D
Acq On : 29 Dec 2000 18:20
Sample : AC05536 25ml DF=1
Misc : 26563/C12140025
MS Integration Params: rteint.p
Quant Time: Dec 29 18:46 2000

Vial: 6
Operator: TAG/VR
Inst : VOA-C
Multiplr: 1.00

Quant Results File: 12290025.RES

Quant Method : c:\hpchem\1\data\122900\12290025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Fri Dec 29 10:24:33 2000
Response via : Initial Calibration
DataAcq Meth : 12290025

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Pentafluorobenzene	6.47	168	456909	10.00 ug\L	0.00
45) Chlorobenzene-d5	12.78	117	321887	10.00 ug\L	0.00
61) 1,4-Dichlorobenzene-d4	16.91	152	162899	10.00 ug\L	0.02
System Monitoring Compounds					
32) 1,2-Dichloroethane-d4	6.96	65	84866	9.36 ug\L	0.02
Spiked Amount 10.000	Range 80 - 120		Recovery = 93.60%		
46) Toluene-d8	10.28	98	436441	9.16 ug\L	0.00
Spiked Amount 10.000	Range 87 - 104		Recovery = 91.60%		
65) Bromofluorobenzene	14.87	95	218287	9.67 ug\L	0.00
Spiked Amount 10.000	Range 84 - 110		Recovery = 96.70%		

Target Compounds					Qvalue
8) Acrolein	4.12	56	328	~~1.27 ug\L #~~	1
16) Methylene Chloride	3.50	86	2685	~~-0.81 ug\L #~~	1
34) Isobutyl alcohol	7.15	43	67	~~-26.50 ug\L #~~	17
36) Trichloroethene	7.74	95	12766	~~0.59 ug\L #~~	9
64) 1,4-dichloro-2-Butene	14.87	75	109925	~~21.78 ug\L #~~	100
68) 1,2,3-Trichloropropane	14.87	75	109925	~~21.77 ug\L #~~	100
83) 1,2,4-trichlorobenzene	20.49	180	9470	0.65 ug\L	100
84) Hexachlorobutadiene	20.76	225	11645	0.56 ug\L	100
85) Naphthalene	20.88	128	16624	2.37 ug\L	100
86) 1,2,3-Trichlorobenzene	21.34	180	10353	1.01 ug\L #	95

VR
01/02/01

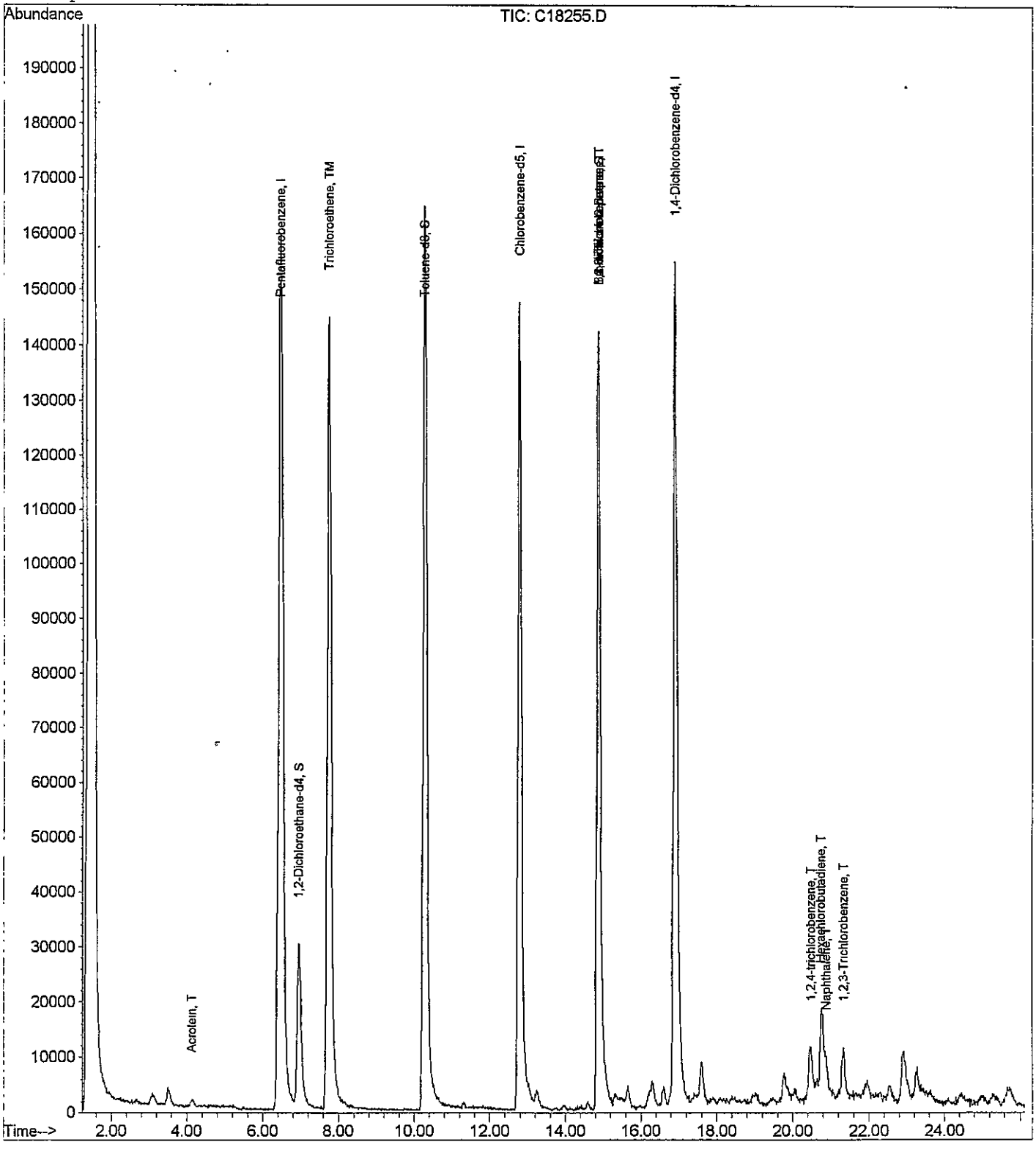
File copy

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

Quantitation Report

Data File : C:\HPCHEM\1\DATA\122900\C18255.D Vial: 6
Acq On : 29 Dec 2000 18:20 Operator: TAG/VR
Sample : AC05536 25ml DF=1 Inst : VOA-C
Misc : 26563/C12140025 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 29 18:46 2000 Quant Results File: 12290025.RES

Method : c:\hpchem\1\data\122900\12290025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Fri Dec 29 08:48:11 2000
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\010301\01030107.D Vial: 7
Acq On : 3 Jan 2001 17:50 Operator: MT
Sample : AC05537 Inst : DRO-B
Misc : 26563 1000mL Multiplr: 1.00
IntFile : events.e
Quant Time: Jan 4 10:11 2001 Quant Results File: PRO1208.RES

Quant Method : C:\HPCHEM\2\METHODS\PRO1208.M (Chemstation Integrator)
Title : FLORIDA PRO BY GC; INST. #2
Last Update : Tue Jan 02 11:40:23 2001
Response via : Initial Calibration
DataAcq Meth : PRO1208.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) SC o-TERPHENYL	19.08	2053631	44.477 ug/mlm
Spiked Amount 50.000	Recovery =		88.95% ✓MT
3) SC C(39)	34.33	1309286	29.803 ug/mlm
Spiked Amount 300.000	Recovery =		9.93% ✓MT
Target Compounds			
1) HM Florida PRO	3.70	24866700	437.213 ug/ml/1000 =

0.44 JB ppm
MT

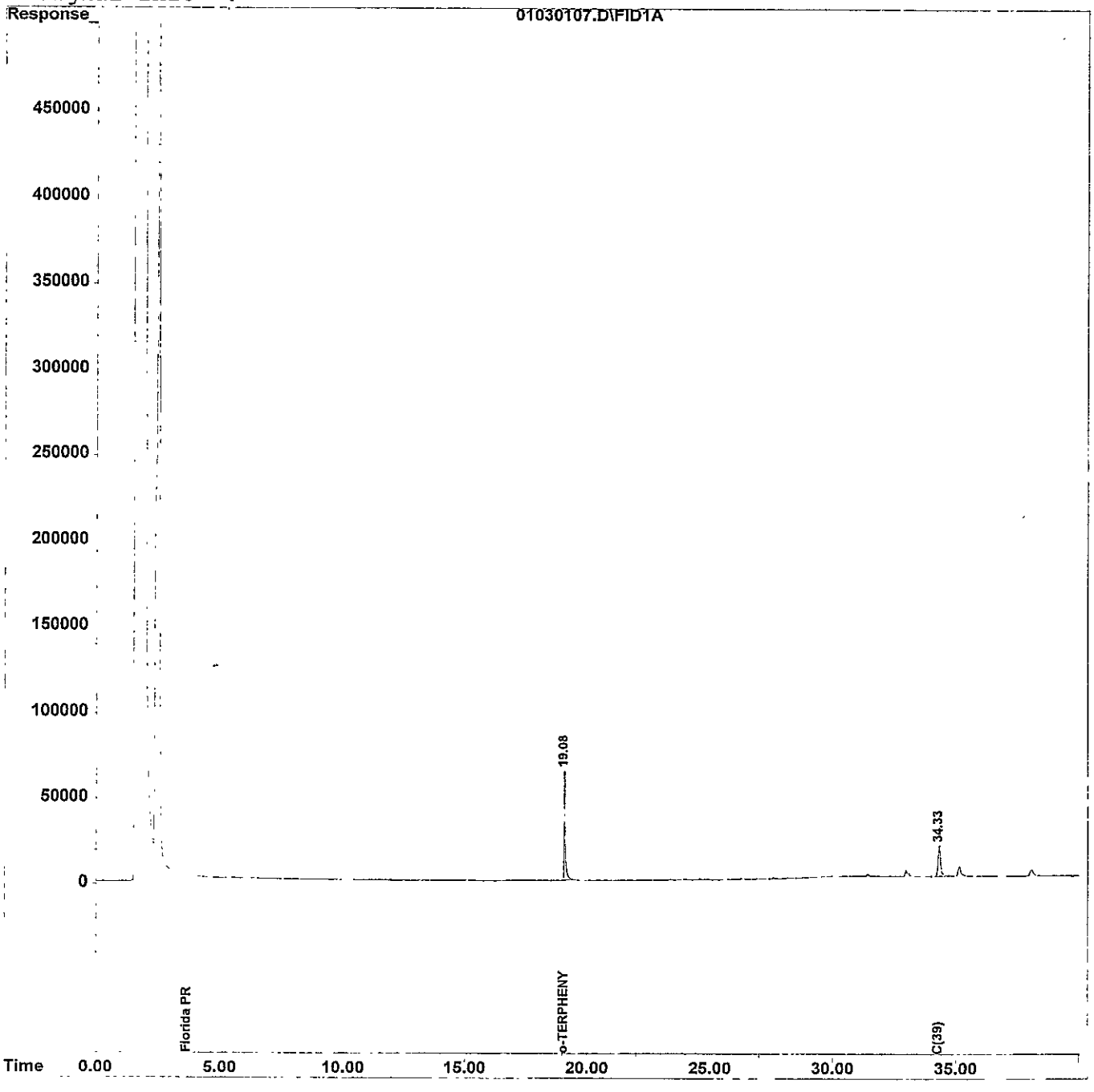
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\2\DATA\010301\01030107.D Vial: 7
Acq On : 3 Jan 2001 17:50 Operator: MT
Sample : AC05537 Inst : DRO-B
Misc : 26563 1000mL Multiplr: 1.00
IntFile : events.e
Quant Time: Jan 4 10:11 2001 Quant Results File: PRO1208.RES

Quant Method : C:\HPCHEM\2\METHODS\PRO1208.M (Chemstation Integrator)
Title : FLORIDA PRO BY GC; INST. #2
Last Update : Tue Jan 02 11:40:23 2001
Response via : Multiple Level Calibration
DataAcq Meth : PRO1208.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\122900\C18256.D Vial: 7
Acq On : 29 Dec 2000 18:51 Operator: TAG/VR
Sample : AC05537 25ml DF=1 Inst : VOA-C
Misc : 26563/C12140025 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 29 19:17 2000 Quant Results File: 12290025.RES

Quant Method : c:\hpchem\1\data\122900\12290025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Fri Dec 29 10:24:33 2000
Response via : Initial Calibration
DataAcq Meth : 12290025

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Pentafluorobenzene	6.46	168	464330	10.00 ug\L	-0.01
45) Chlorobenzene-d5	12.78	117	336287	10.00 ug\L	0.00
61) 1,4-Dichlorobenzene-d4	16.90	152	171378	10.00 ug\L	0.00
System Monitoring Compounds					
32) 1,2-Dichloroethane-d4	6.94	65	90511	9.82 ug\L	-0.01
Spiked Amount 10.000	Range 80 - 120		Recovery = 98.20%		
46) Toluene-d8	10.27	98	457175	9.18 ug\L	-0.01
Spiked Amount 10.000	Range 87 - 104		Recovery = 91.80%		
65) Bromofluorobenzene	14.86	95	231809	9.76 ug\L	-0.01
Spiked Amount 10.000	Range 84 - 110		Recovery = 97.60%		
Target Compounds					Qvalue
11) Acetone	3.01	58	65	~~2.24 ug\L #~~	1
64) 1,4-dichloro-2-Butene	14.85	75	113196	~~21.32 ug\L #~~	100
68) 1,2,3-Trichloropropane	14.85	75	113196	~~21.31 ug\L #~~	100
85) Naphthalene	20.88	128	5757	1.42 ug\L	100

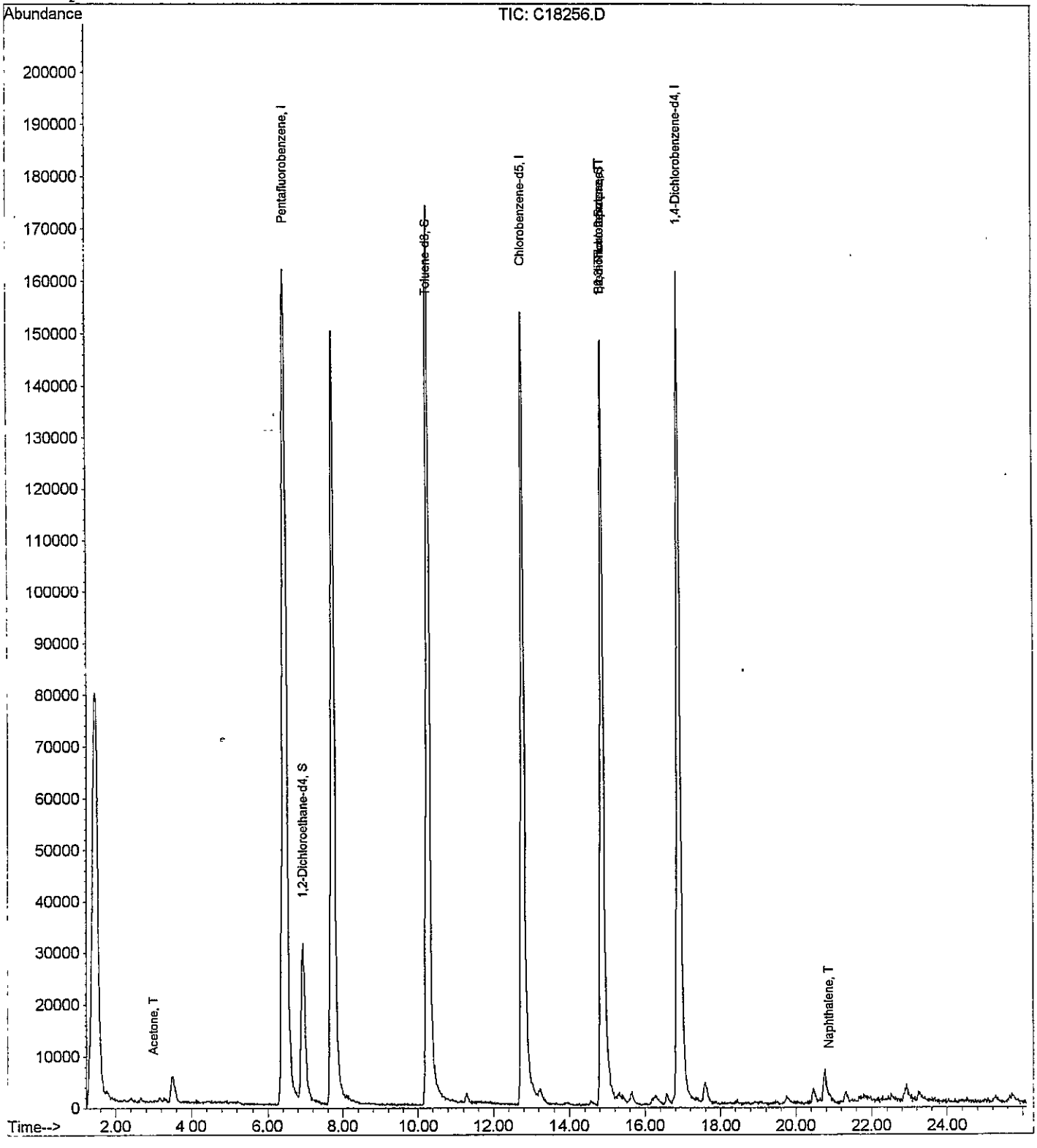
VR
01/02/01

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

Quantitation Report

Data File : C:\HPCHEM\1\DATA\122900\C18256.D Vial: 7
Acq On : 29 Dec 2000 18:51 Operator: TAG/VR
Sample : AC05537 25ml DF=1 Inst : VOA-C
Misc : 26563/C12140025 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 29 19:17 2000 Quant Results File: 12290025.RES

Method : c:\hpchem\1\data\122900\12290025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Fri Dec 29 08:48:11 2000
Response via : Initial Calibration



1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
029-SMW03-Q4

Lab Name: Accura Analytical Lab. Contract: _____

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

Matrix: (soil/water) WATER Lab Sample ID: AC05537

Sample wt/vol: 25.0 (g/ml) ML Lab File ID: C18256.D

Level: (low/med) LOW Date Received: 12/21/00

% Moisture: not dec. _____ Date Analyzed: 12/29/00

GC Column: DB-624 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 NAME	RT	EST. CONC.	Q

LSC Area Percent Report

Data File : C:\HPCHEM\1\DATA\122900\C18256.D Vial: 7
Acq On : 29 Dec 2000 18:51 Operator: TAG/VR
Sample : AC05537 25ml DF=1 Inst : VOA-C
Misc : 26563/C12140025 Multiplr: 1.00
MS Integration Params: LSCINT.P

Method : c:\hpchem\1\data\122900\12290025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Smoothing : OFF Filtering: 5
Sampling : 1 Min Area: 1 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Signal : TIC

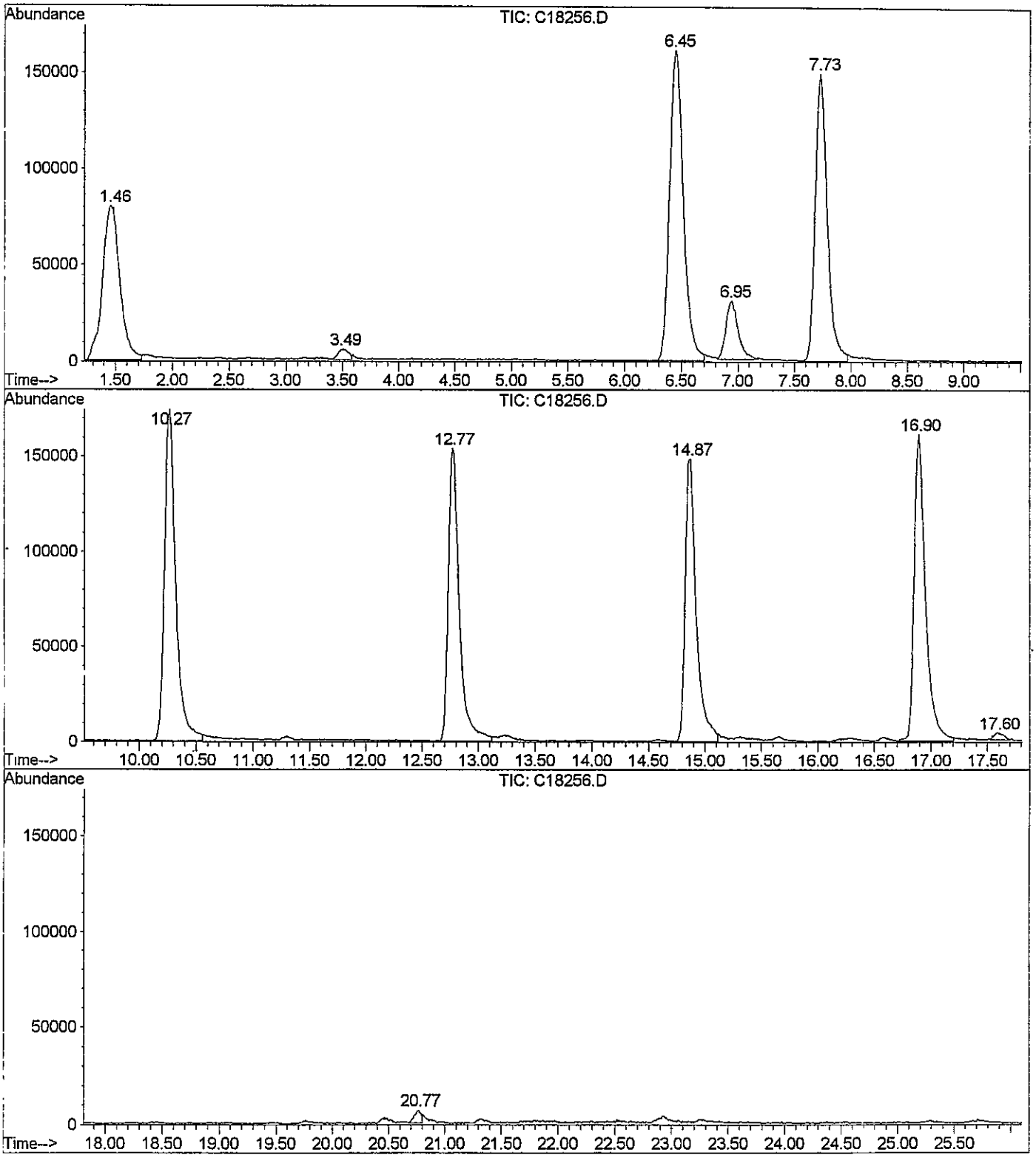
peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	peak area	peak % max.	% of total
1	1.462	3	25	52	rBV	79752	837522	60.82%	10.551%
2	3.494	223	231	240	rBV5	5133	33096	2.40%	0.417%
3	6.452	512	531	556	rBV2	161614	1377115	100.00%	17.348%
4	6.945	568	581	603	rVB2	30401	227775	16.54%	2.869%
5	7.734	645	661	685	rBV2	149956	1098393	79.76%	13.837%
6	10.269	903	918	947	rBV	173829	1191601	86.53%	15.011%
7	12.774	1159	1172	1207	rBV	153493	1030616	74.84%	12.983%
8	14.874	1371	1385	1409	rBV2	148326	1005619	73.02%	12.668%
9	16.896	1570	1590	1621	rBV	161210	1089233	79.10%	13.722%
10	17.596	1654	1661	1672	rVB5	3597	20466	1.49%	0.258%
11	20.772	1974	1983	1986	rBV7	6442	26533	1.93%	0.334%

Sum of corrected areas: 7937969

C18256.D 12290025.M Thu Jan 04 10:21:06 2001 RPT1

LSC Report - Integrated Chromatogram

File : C:\HPCHEM\1\DATA\122900\C18256.D
Operator : TAG/VR
Acquired : 29 Dec 2000 18:51 using AcqMethod 12290025
Instrument : VOA-C
Sample Name: AC05537 25ml DF=1
Misc Info : 26563/C12140025
Vial Number: 7
Quant File :12290025.RES (RTE Integrator)



C18256.D 12290025.M Thu Jan 04 10:21:07 2001 RPT1

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\122900\C18256.D Vial: 7
Acq On : 29 Dec 2000 18:51 Operator: TAG/VR
Sample : AC05537 25ml DF=1 Inst : VOA-C
Misc : 26563/C12140025 Multiplr: 1.00
MS Integration Params: LSCINT.P

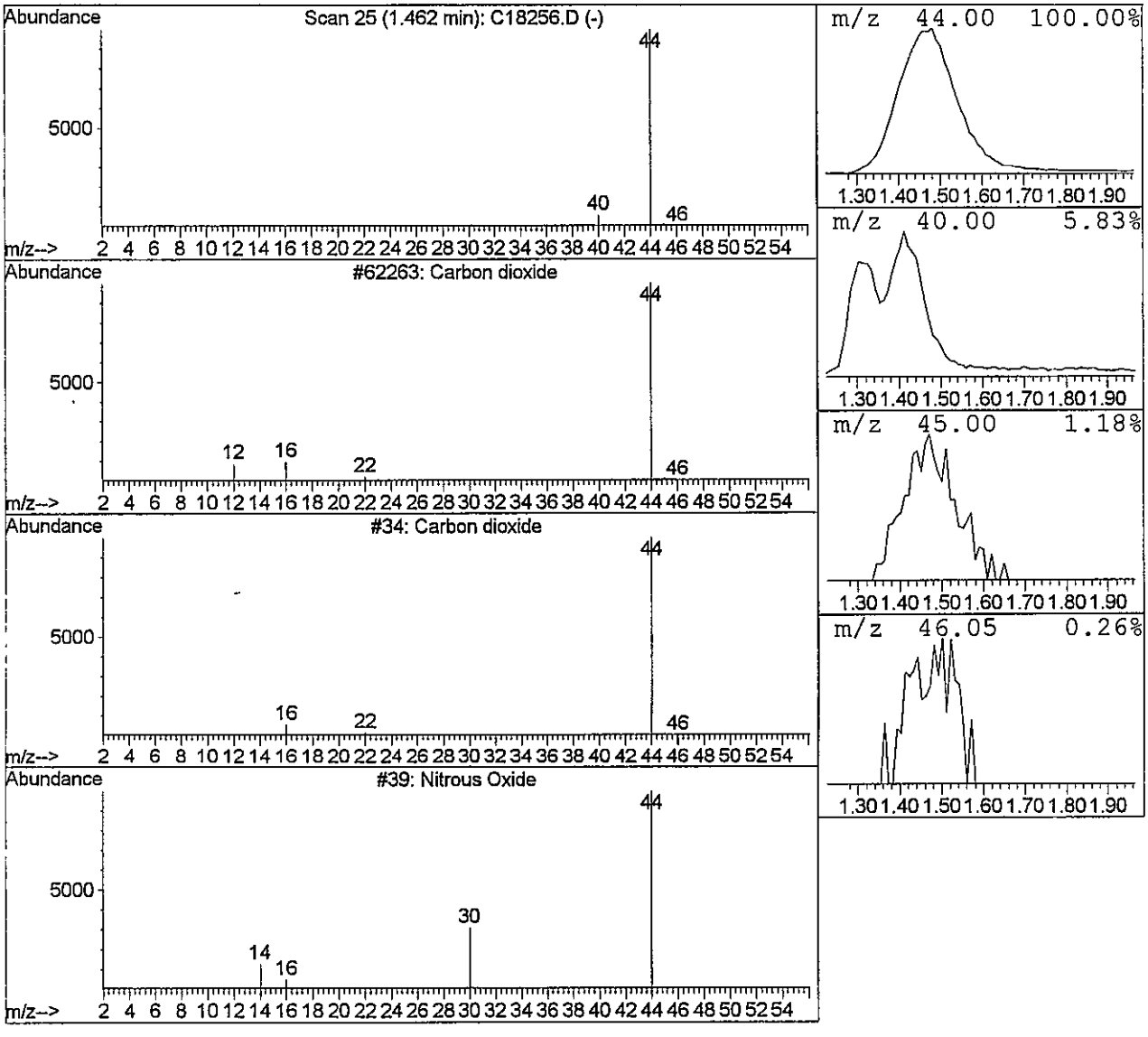
Quant Method : c:\hpchem\1\data\122900\12290025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Library : C:\DATABASE\NBS75K.L

****

Peak Number 1 Carbon dioxide Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
1.46	6.08 ug\L	837522	Pentafluorobenzene	6.46

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Carbon dioxide	44	CO2	000124-38-9	3
2	Carbon dioxide	44	CO2	000124-38-9	3
3	Nitrous Oxide	44	N2O	010024-97-2	3
4	Nitrous Oxide	44	N2O	010024-97-2	3



Data File : C:\HPCHEM\1\DATA\122900\C18256.D Vial: 7
Acq On : 29 Dec 2000 18:51 Operator: TAG/VR
Sample : AC05537 25ml DF=1 Inst : VOA-C
Misc : 26563/C12140025 Multiplr: 1.00
MS Integration Params: LSCINT.P

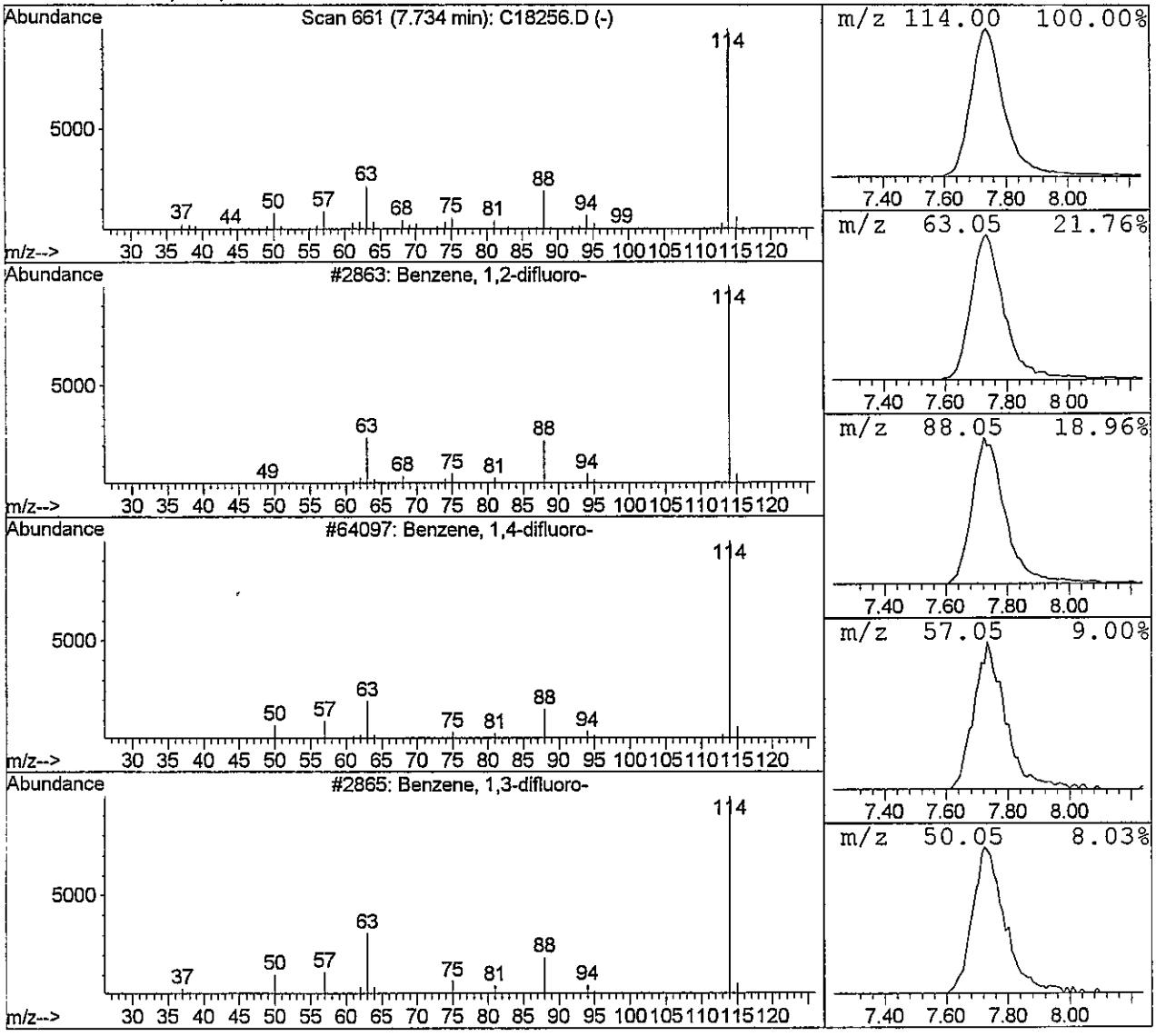
Quant Method : c:\hpchem\1\data\122900\12290025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Library : C:\DATABASE\NBS75K.L

****

Peak Number 2 Benzene, 1,2-difluoro- Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.73	7.98 ug\L	1098390	Pentafluorobenzene	6.46

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1,2-difluoro-	114	C6H4F2	000367-11-3	97
2	Benzene, 1,4-difluoro-	114	C6H4F2	000540-36-3	97
3	Benzene, 1,3-difluoro-	114	C6H4F2	000372-18-9	96
4	Benzene, 1,2-difluoro-	114	C6H4F2	000367-11-3	94



Tentatively Identified Compound (LSC) summary

Operator ID: TAG/VR Date Acquired: 29 Dec 2000 18:51
Data File: C:\HPCHEM\1\DATA\122900\C18256.D
Name: AC05537 25ml DF=1
Misc: 26563/C12140025
Method: c:\hpchem\1\data\122900\12290025.M (RTE Integrator)
Title: 8260 CALIBRATION FOR 25ML WATER
Library Searched: C:\DATABASE\NBS75K.L

TIC Top Hit name	RT	EstConc	Units	Area	IntStd	ISRT	ISArea	ISConc
Carbon dioxide	1.46	6.1	ug\L	837522	ISTD01	6.46	1377120	10.0
Benzene, 1,2-difluor	7.73	8.0	ug\L	1098390	ISTD01	6.46	1377120	10.0

C18256.D 12290025.M Thu Jan 04 10:21:11 2001 RPT1

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\010201\01020111.D Vial: 11
Acq On : 2 Jan 2001 19:28 Operator: MT
Sample : AC05538 Inst : DRO-B
Misc : 26563 1000mL Multiplr: 1.00
IntFile : events.e
Quant Time: Jan 3 10:30 2001 Quant Results File: PRO1208.RES

Quant Method : C:\HPCHEM\2\METHODS\PRO1208.M (Chemstation Integrator)
Title : FLORIDA PRO BY GC; INST. #2
Last Update : Tue Jan 02 11:40:23 2001
Response via : Initial Calibration
DataAcq Meth : PRO1208.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) SC o-TERPHENYL	19.11	811988	17.586 ug/mlm
Spiked Amount 50.000	Recovery =		35.17% MT
3) SC C(39)	34.39	2167436	49.338 ug/mlm
Spiked Amount 300.000	Recovery =		16.45% MT
Target Compounds			
1) HM Florida PRO	3.70	37920579	666.730 ug/ml /1000 =

0.67 JB ppm
MT

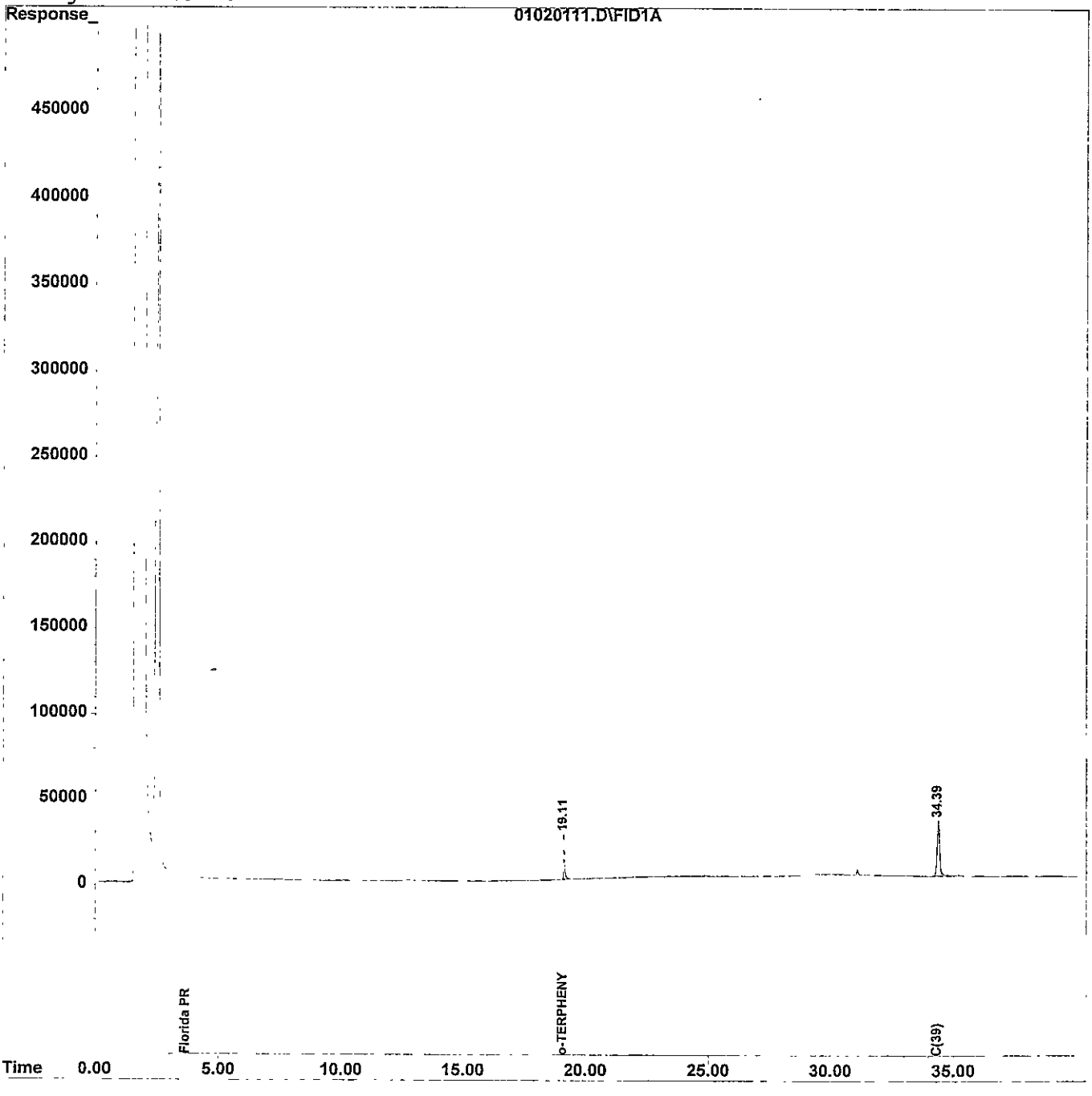
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\2\DATA\010201\01020111.D Vial: 11
Acq On : 2 Jan 2001 19:28 Operator: MT
Sample : AC05538 Inst : DRO-B
Misc : 26563 1000mL Multiplr: 1.00
IntFile : events.e
Quant Time: Jan 3 10:30 2001 Quant Results File: PRO1208.RES

Quant Method : C:\HPCHEM\2\METHODS\PRO1208.M (Chemstation Integrator)
Title : FLORIDA PRO BY GC; INST. #2
Last Update : Tue Jan 02 11:40:23 2001
Response via : Multiple Level Calibration
DataAcq Meth : PRO1208.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\122900\C18257.D Vial: 8
Acq On : 29 Dec 2000 19:22 Operator: TAG/VR
Sample : AC05538 25ml DF=1 Inst : VOA-C
Misc : 26563/C12140025 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 29 19:48 2000 Quant Results File: 12290025.RES

Quant Method : c:\hpchem\1\data\122900\12290025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Fri Dec 29 10:24:33 2000
Response via : Initial Calibration
DataAcq Meth : 12290025

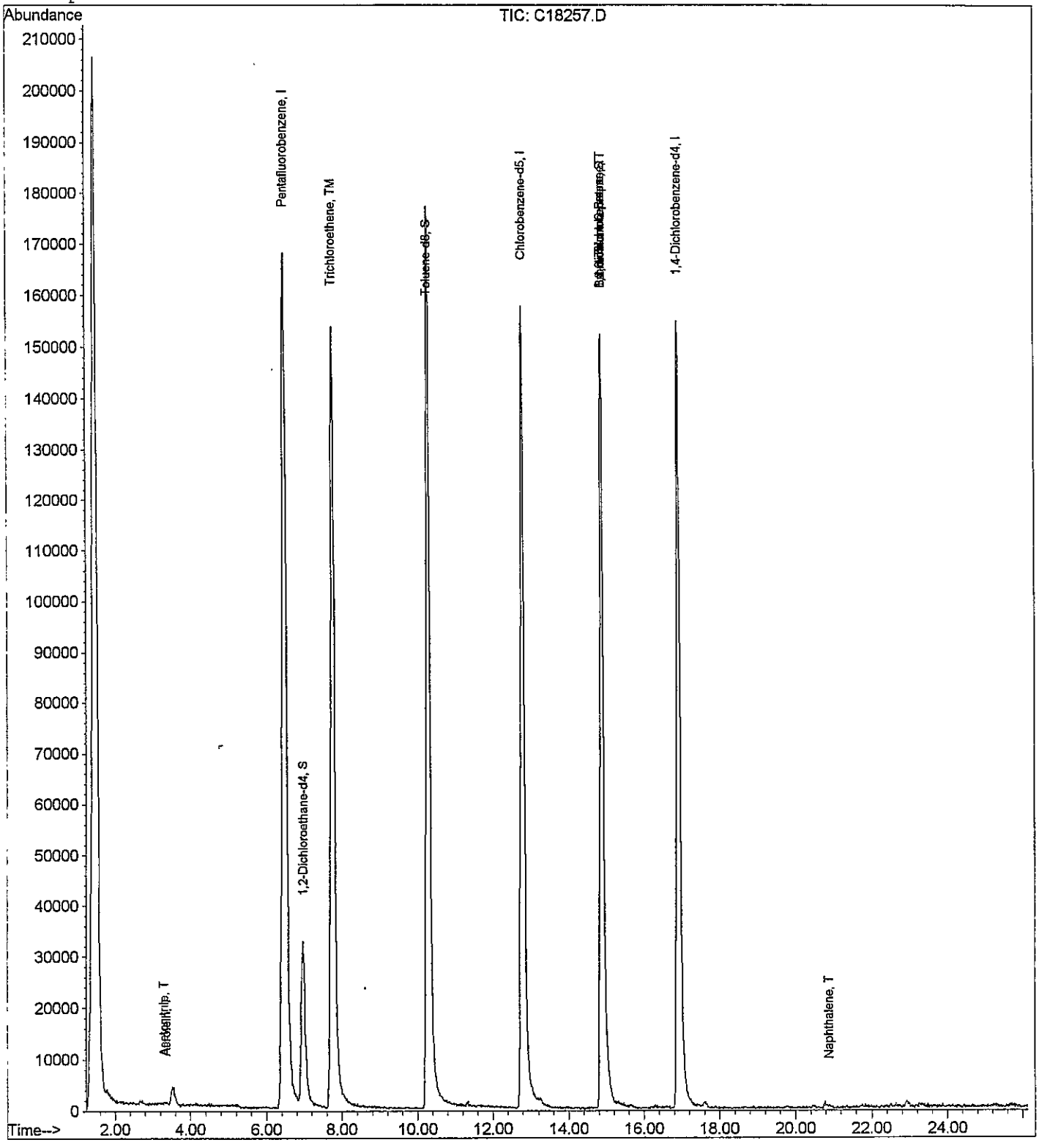
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Pentafluorobenzene	6.48	168	480347	10.00 ug\L	0.00
45) Chlorobenzene-d5	12.79	117	337639	10.00 ug\L	0.02
61) 1,4-Dichlorobenzene-d4	16.91	152	173242	10.00 ug\L	0.02
System Monitoring Compounds					
32) 1,2-Dichloroethane-d4	6.98	65	90235	9.47 ug\L	0.03
Spiked Amount 10.000	Range 80 - 120		Recovery = 94.70%		
46) Toluene-d8	10.28	98	470366	9.41 ug\L	0.00
Spiked Amount 10.000	Range 87 - 104		Recovery = 94.10%		
65) Bromofluorobenzene	14.87	95	230280	9.59 ug\L	0.00
Spiked Amount 10.000	Range 84 - 110		Recovery = 95.90%		
Target Compounds					Qvalue
8) Acrolein	3.38	56	146	~~0.54 ug\L #~~	1
15) Acetonitrile	3.31	41	943	~~0.50 ug\L #~~	38
16) Methylene Chloride	3.53	86	2021	~~0.92 ug\L #~~	1
34) Isobutyl alcohol	7.12	43	78	~~26.38 ug\L #~~	1
36) Trichloroethene	7.74	95	14008	~~0.62 ug\L #~~	9
64) 1,4-dichloro-2-Butene	14.87	75	117892	~~21.96 ug\L #~~	100
68) 1,2,3-Trichloropropane	14.87	75	117892	~~21.95 ug\L #~~	100
85) Naphthalene	20.89	128	2047	1.12 ug\L	100

VR
01/02/01

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

Data File : C:\HPCHEM\1\DATA\122900\C18257.D Vial: 8
Acq On : 29 Dec 2000 19:22 Operator: TAG/VR
Sample : AC05538 25ml DF=1 Inst : VOA-C
Misc : 26563/C12140025 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 29 19:48 2000 Quant Results File: 12290025.RES

Method : c:\hpchem\1\data\122900\12290025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Fri Dec 29 08:48:11 2000
Response via : Initial Calibration



1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
029-SMW07-Q4

Lab Name: Accura Analytical Lab. Contract: _____

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

Matrix: (soil/water) WATER Lab Sample ID: AC05538

Sample wt/vol: 25.0 (g/ml) ML Lab File ID: C18257.D

Level: (low/med) LOW Date Received: 12/21/00

% Moisture: not dec. _____ Date Analyzed: 12/29/00

GC Column: DB-624 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 NAME	RT	EST. CONC.	Q

LSC Area Percent Report

Data File : C:\HPCHEM\1\DATA\122900\C18257.D Vial: 8
Acq On : 29 Dec 2000 19:22 Operator: TAG/VR
Sample : AC05538 25ml DF=1 Inst : VOA-C
Misc : 26563/C12140025 Multiplr: 1.00
MS Integration Params: LSCINT.P

Method : c:\hpchem\1\data\122900\12290025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Smoothing : OFF Filtering: 5
Sampling : 1 Min Area: 1 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Signal : TIC

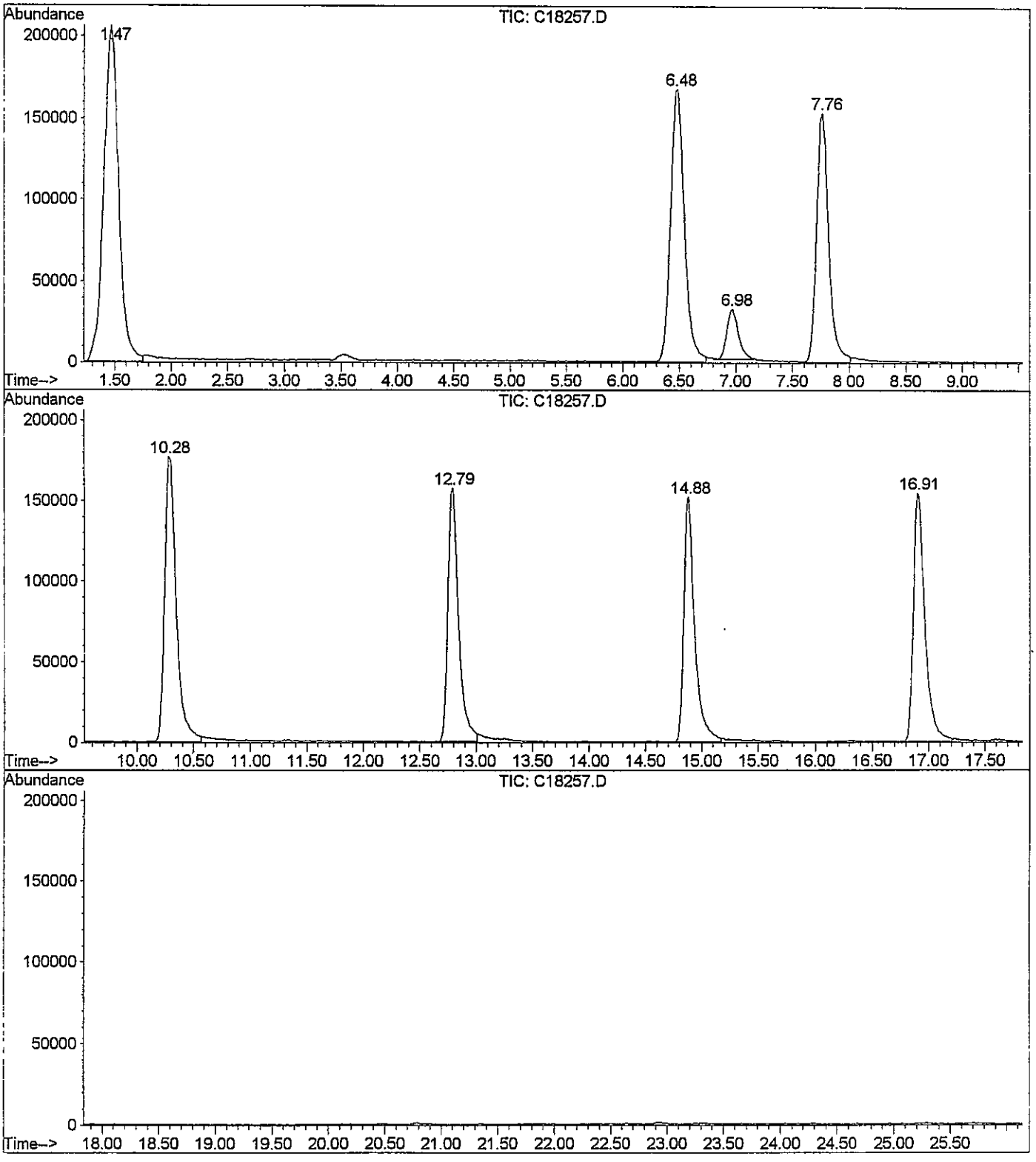
peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	peak area	peak % max.	% of total
1	1.472	3	26	54	rBV	206074	1887204	100.00%	20.938%
2	6.482	515	534	560	rBV	167626	1427664	75.65%	15.840%
3	6.975	570	584	602	rBV5	31037	221522	11.74%	2.458%
4	7.764	646	664	689	rBV3	153280	1144030	60.62%	12.693%
5	10.279	906	919	948	rBV2	176835	1241327	65.78%	13.772%
6	12.794	1160	1174	1196	rBV3	157130	1025610	54.35%	11.379%
7	14.884	1373	1386	1415	rBV2	151698	1006630	53.34%	11.168%
8	16.906	1579	1591	1622	rBV2	154164	1059315	56.13%	11.753%

Sum of corrected areas: 9013302

C18257.D 12290025.M Thu Jan 04 10:21:55 2001 RPT1

LSC Report - Integrated Chromatogram

File : C:\HPCHEM\1\DATA\122900\C18257.D
Operator : TAG/VR
Acquired : 29 Dec 2000 19:22 using AcqMethod 12290025
Instrument : VOA-C
Sample Name: AC05538 25ml DF=1
Misc Info : 26563/C12140025
Vial Number: 8
Quant File :12290025.RES (RTE Integrator)



C18257.D 12290025.M Thu Jan 04 10:21:56 2001 RPT1

Data File : C:\HPCHEM\1\DATA\122900\C18257.D Vial: 8
Acq On : 29 Dec 2000 19:22 Operator: TAG/VR
Sample : AC05538 25ml DF=1 Inst : VOA-C
Misc : 26563/C12140025 Multiplr: 1.00
MS Integration Params: LSCINT.P

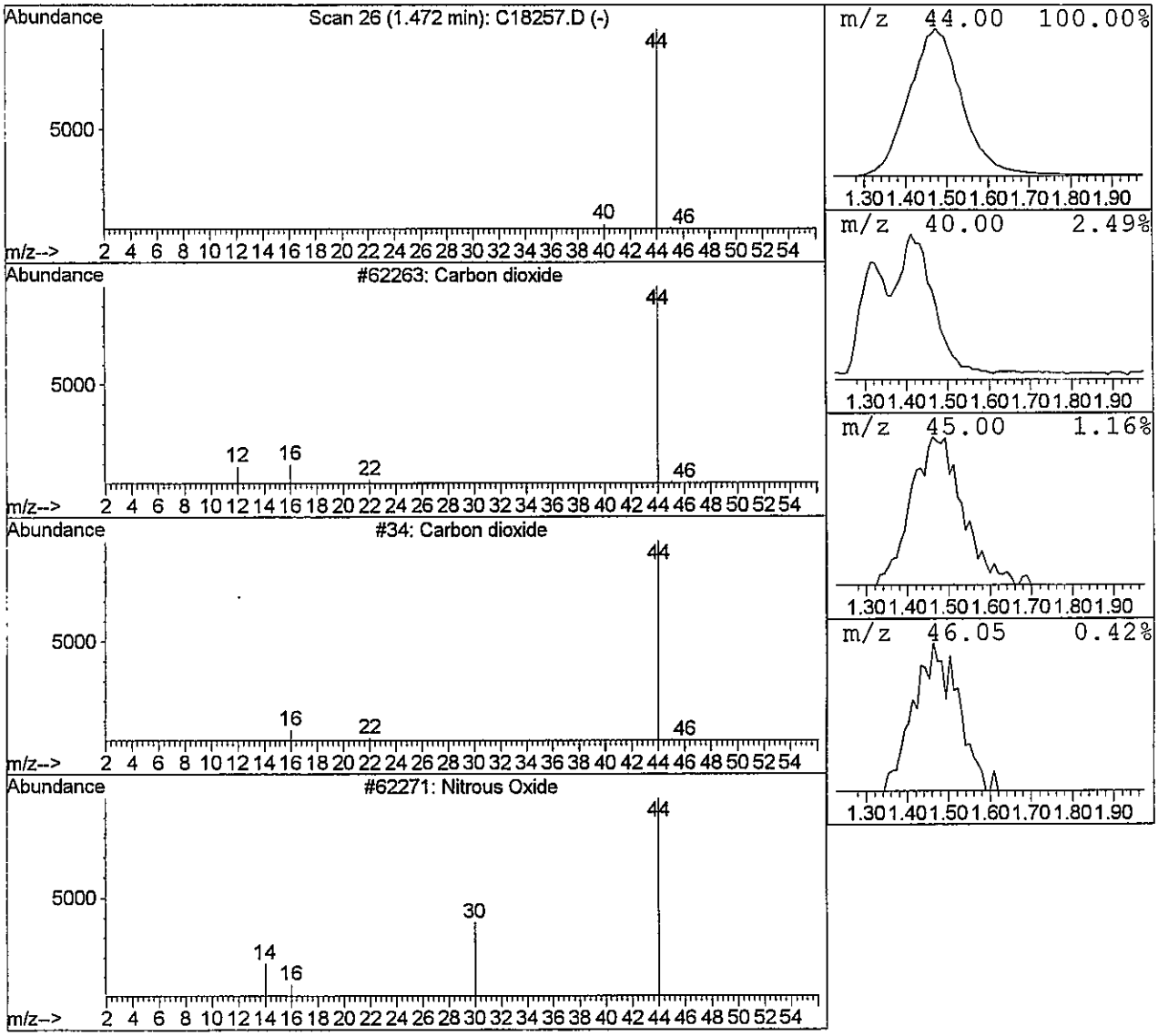
Quant Method : c:\hpchem\1\data\122900\12290025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Library : C:\DATABASE\NBS75K.L

****

Peak Number 1 Carbon dioxide Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
1.47	13.22 ug\L	1887200	Pentafluorobenzene	6.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Carbon dioxide	44	CO2	000124-38-9	4
2	Carbon dioxide	44	CO2	000124-38-9	4
3	Nitrous Oxide	44	N2O	010024-97-2	3
4	Nitrous Oxide	44	N2O	010024-97-2	3



Data File : C:\HPCHEM\1\DATA\122900\C18257.D
Acq On : 29 Dec 2000 19:22
Sample : AC05538 25ml DF=1
Misc : 26563/C12140025
MS Integration Params: LSCINT.P

Vial: 8
Operator: TAG/VR
Inst : VOA-C
Multiplr: 1.00

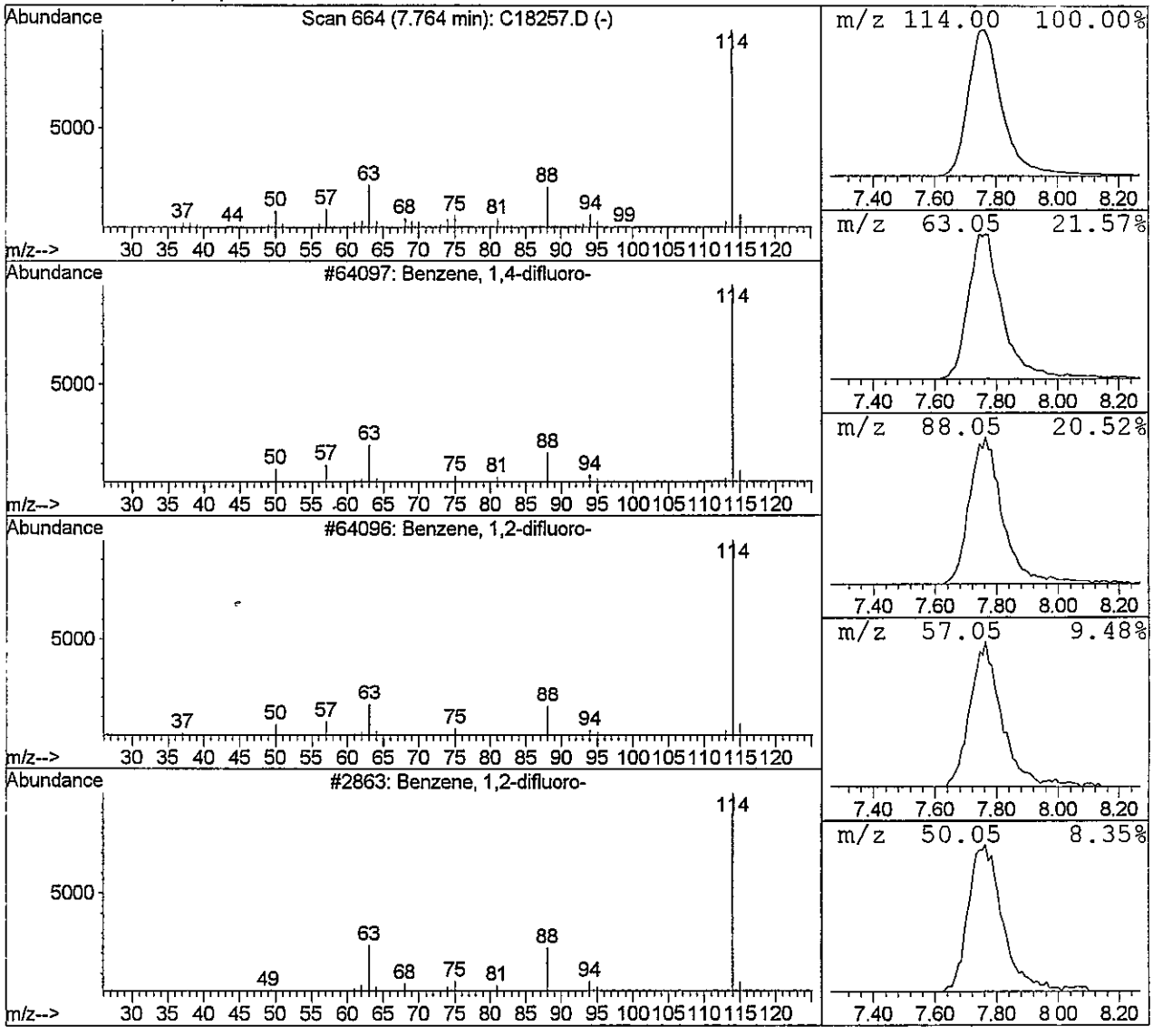
Quant Method : c:\hpchem\1\data\122900\12290025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Library : C:\DATABASE\NBS75K.L

****

Peak Number 2 Benzene, 1,4-difluoro- Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.76	8.01 ug\L	1144030	Pentafluorobenzene	6.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1,4-difluoro-	114	C6H4F2	000540-36-3	97
2	Benzene, 1,2-difluoro-	114	C6H4F2	000367-11-3	95
3	Benzene, 1,2-difluoro-	114	C6H4F2	000367-11-3	95
4	Benzene, 1,3-difluoro-	114	C6H4F2	000372-18-9	94



Tentatively Identified Compound (LSC) summary

Operator ID: TAG/VR Date Acquired: 29 Dec 2000 19:22
Data File: C:\HPCHEM\1\DATA\122900\C18257.D
Name: AC05538 25ml DF=1
Misc: 26563/C12140025
Method: c:\hpchem\1\data\122900\12290025.M (RTE Integrator)
Title: 8260 CALIBRATION FOR 25ML WATER
Library Searched: C:\DATABASE\NBS75K.L

TIC Top Hit name	RT	EstConc	Units	Area	IntStd	ISRT	ISArea	ISConc
Carbon dioxide	1.47	13.2	ug\L	1887200	ISTD01	6.48	1427660	10.0
Benzene, 1,4-difluor	7.76	8.0	ug\L	1144030	ISTD01	6.48	1427660	10.0

C18257.D 12290025.M Thu Jan 04 10:22:00 2001 RPT1

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\010201\01020112.D Vial: 12
Acq On : 2 Jan 2001 20:17 Operator: MT
Sample : AC05539 Inst : DRO-B
Misc : 26563 1000mL Multiplr: 1.00
IntFile : events.e
Quant Time: Jan 3 10:30 2001 Quant Results File: PRO1208.RES

Quant Method : C:\HPCHEM\2\METHODS\PRO1208.M (Chemstation Integrator)
Title : FLORIDA PRO BY GC; INST. #2
Last Update : Tue Jan 02 11:40:23 2001
Response via : Initial Calibration
DataAcq Meth : PRO1208.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) SC o-TERPHENYL	19.12	1310550	28.383 ug/mlm
Spiked Amount 50.000	Recovery =		56.77% x MT
3) SC C(39)	34.39	772688	17.589 ug/mlm
Spiked Amount 300.000	Recovery =		5.86% x MT
Target Compounds			
1) HM Florida PRO	3.70	22356862	393.084 ug/ml /1000 =

0.39 JB ppm
MT

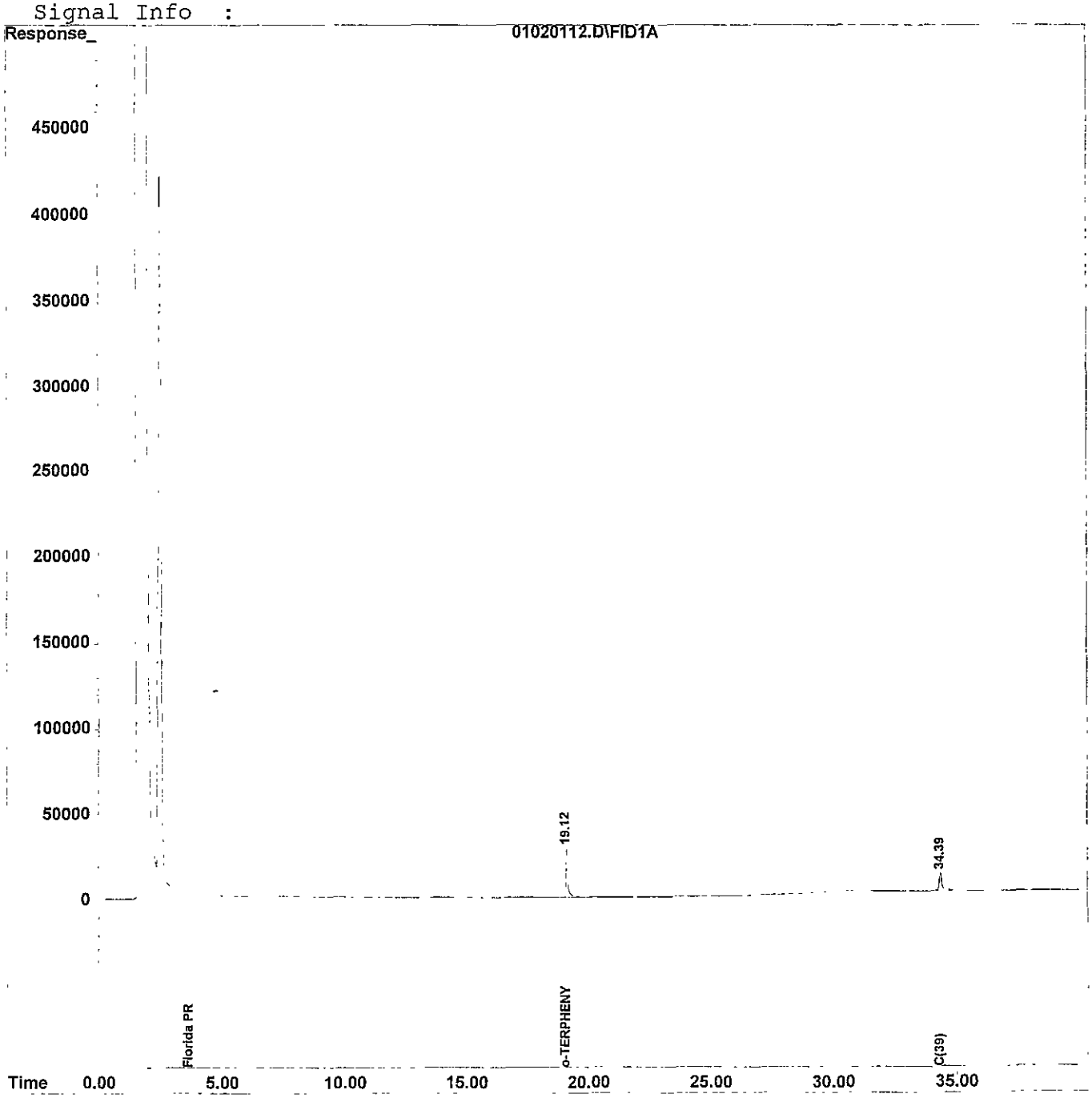
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\2\DATA\010201\01020112.D Vial: 12
Acq On : 2 Jan 2001 20:17 Operator: MT
Sample : AC05539 Inst : DRO-B
Misc : 26563 1000mL Multiplr: 1.00
IntFile : events.e
Quant Time: Jan 3 10:30 2001 Quant Results File: PRO1208.RES

Quant Method : C:\HPCHEM\2\METHODS\PRO1208.M (Chemstation Integrator)
Title : FLORIDA PRO BY GC; INST. #2
Last Update : Tue Jan 02 11:40:23 2001
Response via : Multiple Level Calibration
DataAcq Meth : PRO1208.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\122900\C18258.D Vial: 9
Acq On : 29 Dec 2000 19:52 Operator: TAG/VR
Sample : AC05539 25ml DF=1 Inst : VOA-C
Misc : 26563/C12140025 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 29 20:18 2000 Quant Results File: 12290025.RES

Quant Method : c:\hpchem\1\data\122900\12290025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Fri Dec 29 10:24:33 2000
Response via : Initial Calibration
DataAcq Meth : 12290025

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Pentafluorobenzene	6.48	168	458590	10.00 ug\L	0.00
45) Chlorobenzene-d5	12.79	117	318529	10.00 ug\L	0.02
61) 1,4-Dichlorobenzene-d4	16.91	152	156485	10.00 ug\L	0.02
System Monitoring Compounds					
32) 1,2-Dichloroethane-d4	6.96	65	79426	8.73 ug\L	0.02
Spiked Amount 10.000	Range 80 - 120		Recovery = 87.30%		
46) Toluene-d8	10.27	98	440581	9.34 ug\L	0.00
Spiked Amount 10.000	Range 87 - 104		Recovery = 93.40%		
65) Bromofluorobenzene	14.88	95	205672	9.48 ug\L	0.00
Spiked Amount 10.000	Range 84 - 110		Recovery = 94.80%		
Target Compounds					Qvalue
36) Trichloroethene	7.75	95	12766	~~0.59 ug\L #~~	9
64) 1,4-dichloro-2-Butene	14.87	75	97886	~~20.19 ug\L #~~	100
68) 1,2,3-Trichloropropane	14.87	75	97886	~~20.18 ug\L #~~	100
85) Naphthalene	20.87	128	641	1.01 ug\L	100

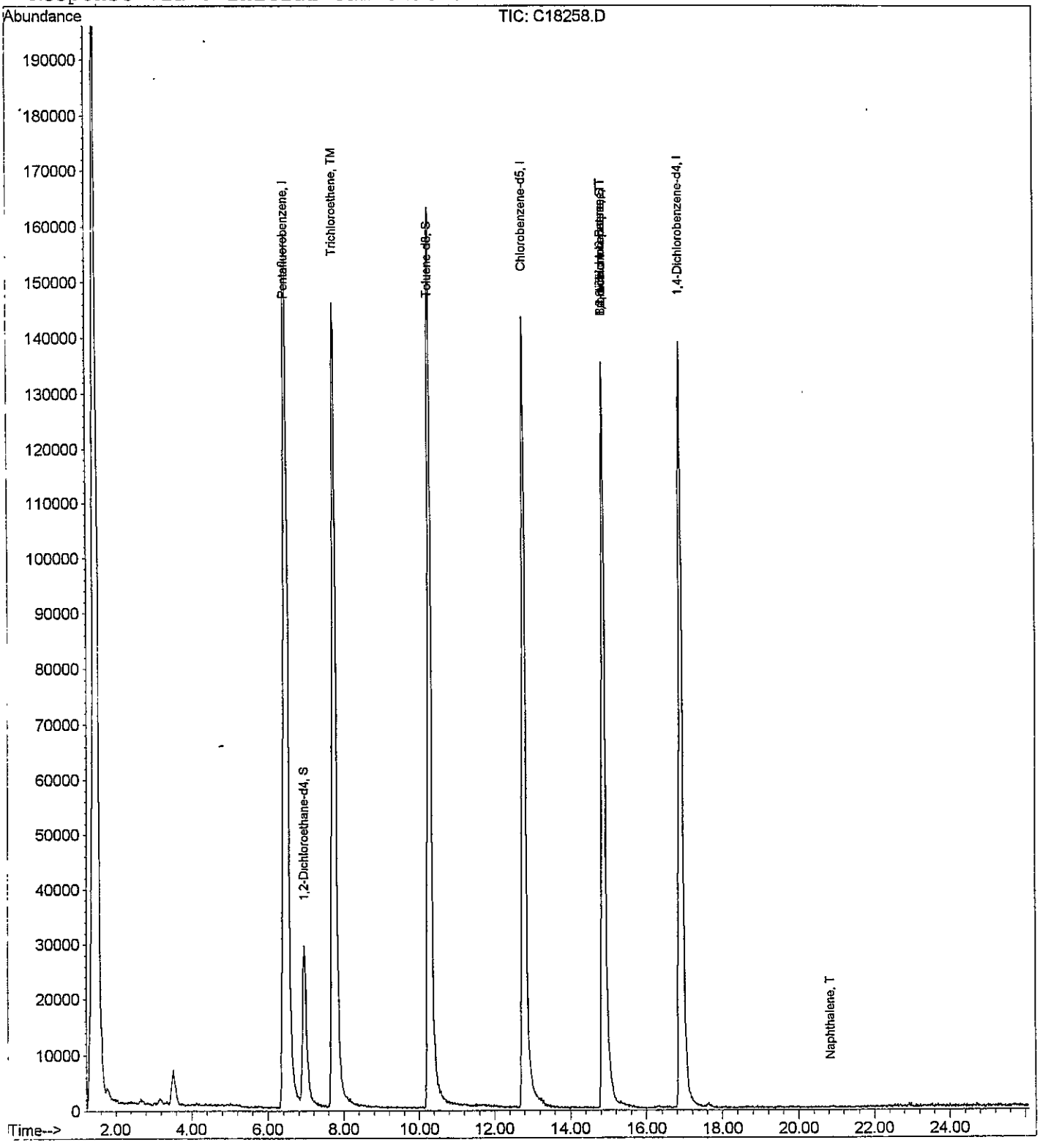
01/02/01

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

Quantitation Report

Data File : C:\HPCHEM\1\DATA\122900\C18258.D Vial: 9
Acq On : 29 Dec 2000 19:52 Operator: TAG/VR
Sample : AC05539 25ml DF=1 Inst : VOA-C
Misc : 26563/C12140025 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 29 20:18 2000 Quant Results File: 12290025.RES

Method : c:\hpchem\1\data\122900\12290025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Fri Dec 29 08:48:11 2000
Response via : Initial Calibration



1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

029-SMW10-Q4

Lab Name: Accura Analytical Lab. Contract: _____

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

Matrix: (soil/water) WATER Lab Sample ID: AC05539

Sample wt/vol: 25.0 (g/ml) ML Lab File ID: C18258.D

Level: (low/med) LOW Date Received: 12/21/00

% Moisture: not dec. _____ Date Analyzed: 12/29/00

GC Column: DB-624 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 NAME	RT	EST. CONC.	Q

LSC Area Percent Report

Data File : C:\HPCHEM\1\DATA\122900\C18258.D Vial: 9
Acq On : 29 Dec 2000 19:52 Operator: TAG/VR
Sample : AC05539 25ml DF=1 Inst : VOA-C
Misc : 26563/C12140025 Multiplr: 1.00
MS Integration Params: LSCINT.P

Method : c:\hpchem\1\data\122900\12290025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Smoothing : OFF Filtering: 5
Sampling : 1 Min Area: 1 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Signal : TIC

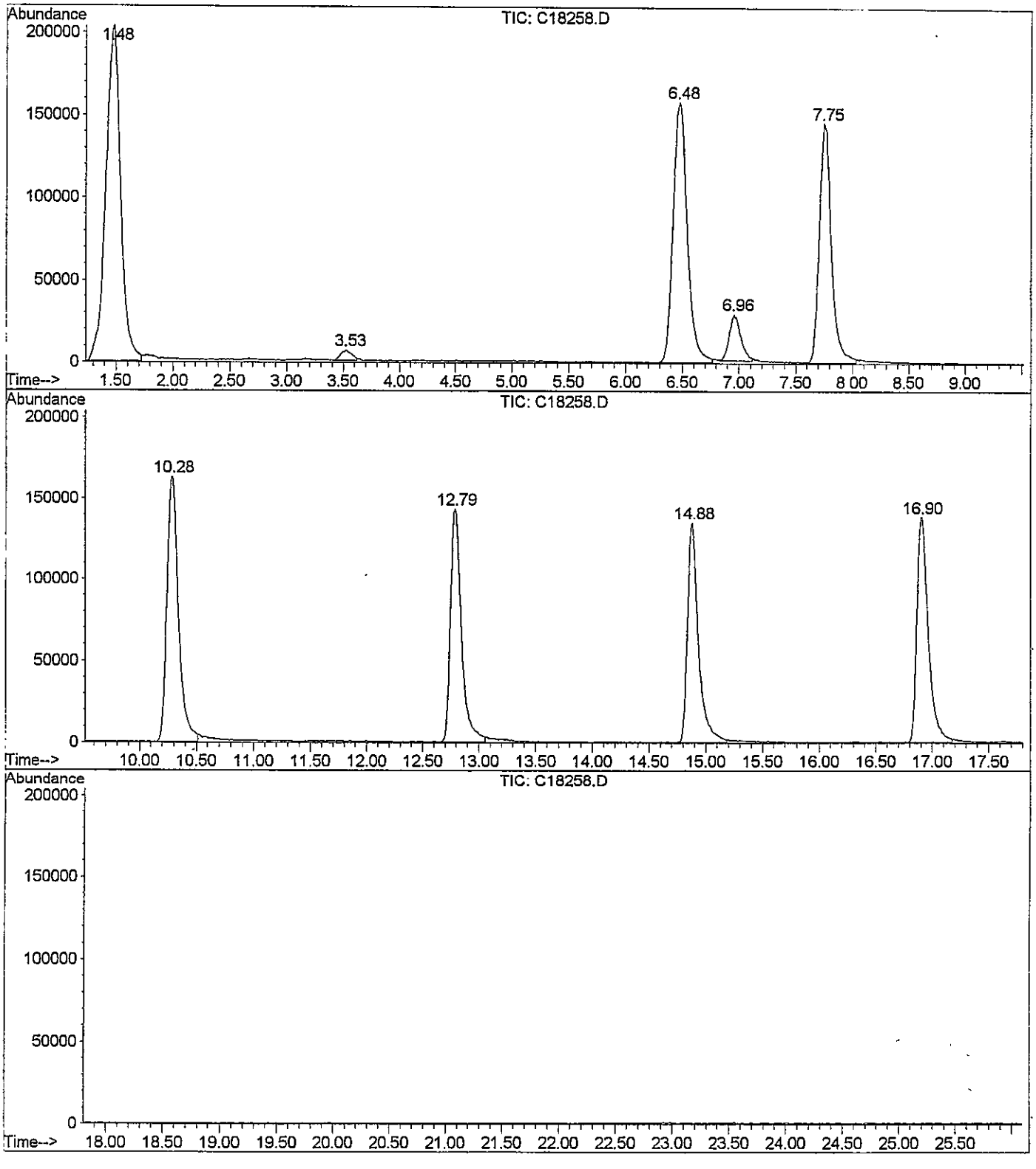
peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	peak area	peak % max.	% of total
1	1.477	3	26	51	rBV	203620	1827251	100.00%	21.681%
2	3.529	222	234	243	rBV4	6263	40160	2.20%	0.477%
3	6.477	514	533	562	rBV2	158100	1363788	74.64%	16.182%
4	6.961	569	582	598	rBV2	27916	195500	10.70%	2.320%
5	7.749	647	662	691	rBV2	145612	1071257	58.63%	12.711%
6	10.284	902	919	942	rBV2	162915	1127485	61.70%	13.378%
7	12.789	1160	1173	1200	rBV2	143057	953012	52.16%	11.308%
8	14.880	1372	1385	1416	rBV2	134861	900120	49.26%	10.680%
9	16.901	1579	1590	1618	rBV	138609	949203	51.95%	11.263%

Sum of corrected areas: 8427776

C18258.D 12290025.M Thu Jan 04 10:22:41 2001 RPT1

LSC Report - Integrated Chromatogram

File : C:\HPCHEM\1\DATA\122900\C18258.D
Operator : TAG/VR
Acquired : 29 Dec 2000 19:52 using AcqMethod 12290025
Instrument : VOA-C
Sample Name: AC05539 25ml DF=1
Misc Info : 26563/C12140025
Vial Number: 9
Quant File :12290025.RES (RTE Integrator)



Data File : C:\HPCHEM\1\DATA\122900\C18258.D Vial: 9
Acq On : 29 Dec 2000 19:52 Operator: TAG/VR
Sample : AC05539 25ml DF=1 Inst : VOA-C
Misc : 26563/C12140025 Multiplr: 1.00
MS Integration Params: LSCINT.P

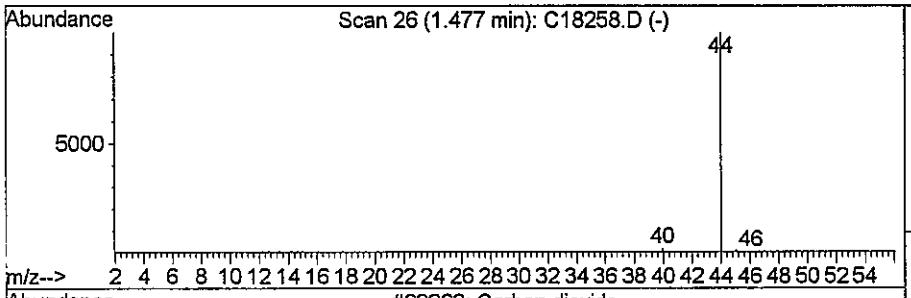
Quant Method : c:\hpchem\1\data\122900\12290025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Library : C:\DATABASE\NBS75K.L

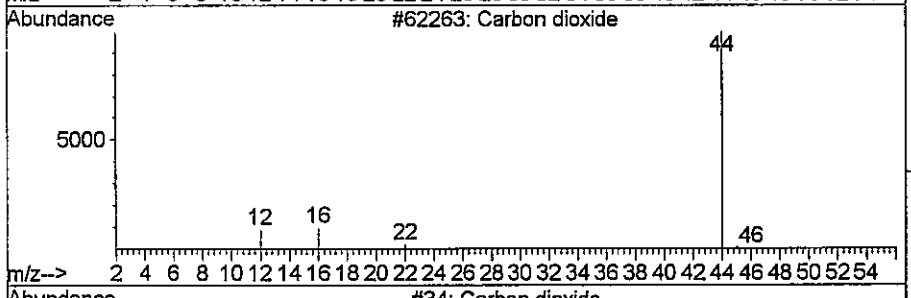
****

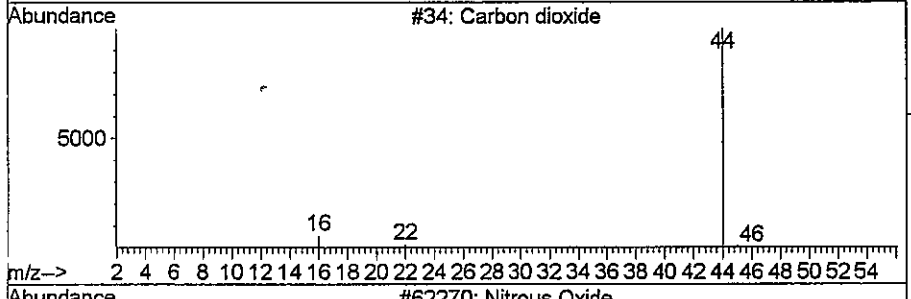
Peak Number 1 Carbon dioxide Concentration Rank 1

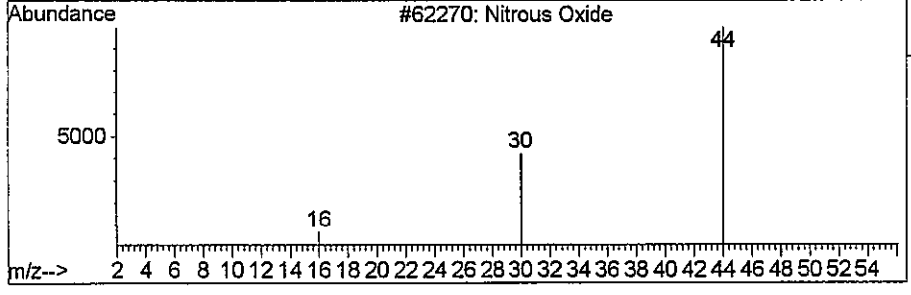
R.T.	EstConc	Area	Relative to ISTD	R.T.
1.48	13.40 ug\L	1827250	Pentafluorobenzene	6.48

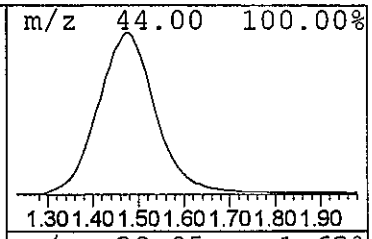
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Carbon dioxide	44	CO2	000124-38-9	4
2	Carbon dioxide	44	CO2	000124-38-9	4
3	Nitrous Oxide	44	N2O	010024-97-2	3
4	Nitrous Oxide	44	N2O	010024-97-2	3

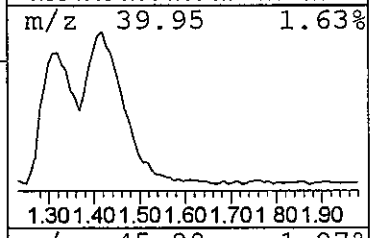


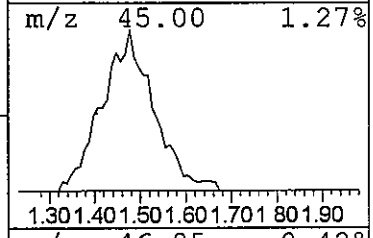


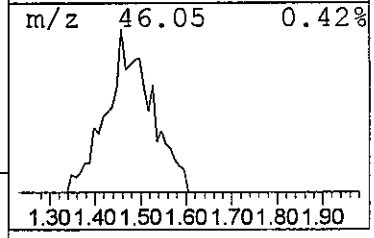












Data File : C:\HPCHEM\1\DATA\122900\C18258.D Vial: 9
Acq On : 29 Dec 2000 19:52 Operator: TAG/VR
Sample : AC05539 25ml DF=1 Inst : VOA-C
Misc : 26563/C12140025 Multiplr: 1.00
MS Integration Params: LSCINT.P

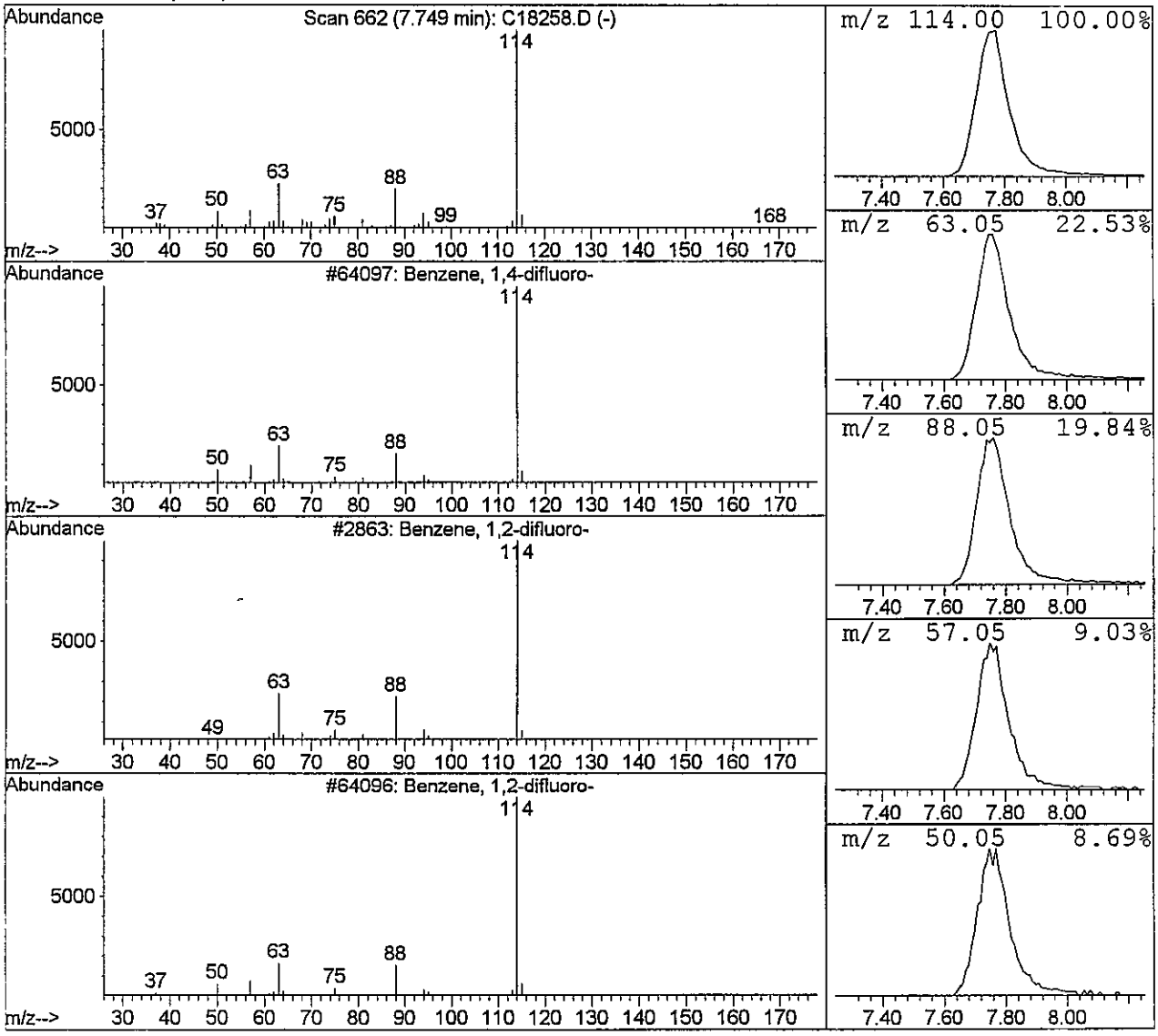
Quant Method : c:\hpchem\1\data\122900\12290025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Library : C:\DATABASE\NBS75K.L

****

Peak Number 2 Benzene, 1,4-difluoro- Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.75	7.86 ug\L	1071260	Pentafluorobenzene	6.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1,4-difluoro-	114	C6H4F2	000540-36-3	97
2	Benzene, 1,2-difluoro-	114	C6H4F2	000367-11-3	95
3	Benzene, 1,2-difluoro-	114	C6H4F2	000367-11-3	94
4	Benzene, 1,3-difluoro-	114	C6H4F2	000372-18-9	94



Tentatively Identified Compound (LSC) summary

Operator ID: TAG/VR Date Acquired: 29 Dec 2000 19:52
Data File: C:\HPCHEM\1\DATA\122900\C18258.D
Name: AC05539 25ml DF=1
Misc: 26563/C12140025
Method: c:\hpchem\1\data\122900\12290025.M (RTE Integrator)
Title: 8260 CALIBRATION FOR 25ML WATER
Library Searched: C:\DATABASE\NBS75K.L

TIC Top Hit name	RT	EstConc	Units	Area	IntStd	ISRT	ISArea	ISConc
Carbon dioxide	1.48	13.4	ug\L	1827250	ISTD01	6.48	1363790	10.0
Benzene, 1,4-difluor	7.75	7.9	ug\L	1071260	ISTD01	6.48	1363790	10.0

C18258.D 12290025.M Thu Jan 04 10:22:46 2001 RPT1

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\010301\01030110.D Vial: 10
Acq On : 3 Jan 2001 20:17 Operator: MT
Sample : AC05540 5X Inst : DRO-B
Misc : 26563 1000mL Multiplr: 1.00
IntFile : events.e
Quant Time: Jan 4 10:12 2001 Quant Results File: PRO1208.RES

Quant Method : C:\HPCHEM\2\METHODS\PRO1208.M (Chemstation Integrator)
Title : FLORIDA PRO BY GC; INST. #2
Last Update : Tue Jan 02 11:40:23 2001
Response via : Initial Calibration
DataAcq Meth : PRO1208.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) SC o-TERPHENYL	19.09	262079	5.676 ug/mlm
Spiked Amount 50.000	Recovery =		11.35% x5 = 57 x MT
3) SC C(39)	34.36	461848	10.513 ug/mlm
Spiked Amount 300.000	Recovery =		3.50% x5 = 18 x MT
Target Compounds			
1) HM Florida PRO	3.70	172081616	3025.585 ug/ml /1000 =

3.026 / 42 x 5 = (MT 1.014.00)

15 ppm
MT

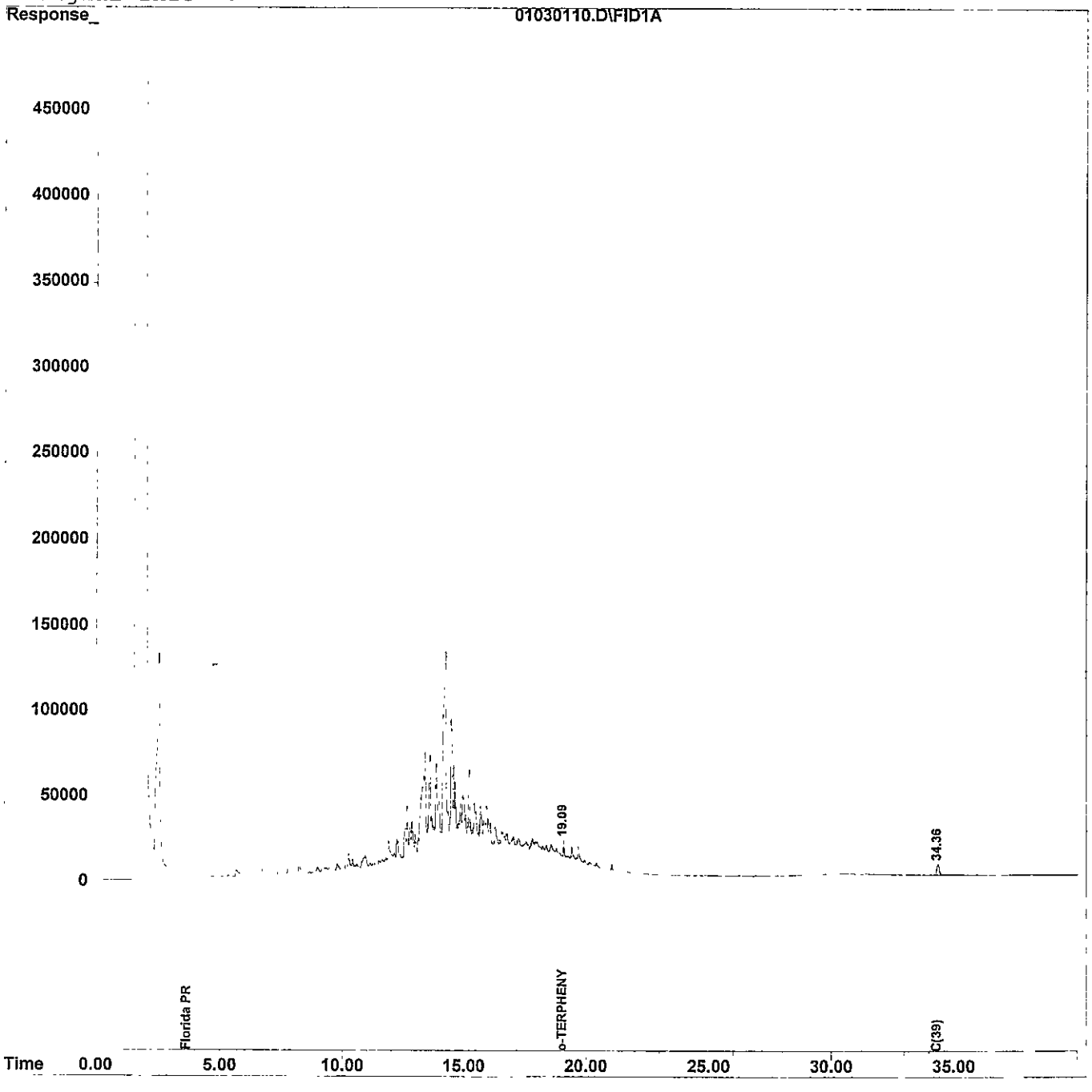
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\2\DATA\010301\01030110.D Vial: 10
Acq On : 3 Jan 2001 20:17 Operator: MT
Sample : AC05540 5X Inst : DRO-B
Misc : 26563 1000mL Multiplr: 1.00
IntFile : events.e
Quant Time: Jan 4 10:12 2001 Quant Results File: PRO1208.RES

Quant Method : C:\HPCHEM\2\METHODS\PRO1208.M (Chemstation Integrator)
Title : FLORIDA PRO BY GC; INST. #2
Last Update : Tue Jan 02 11:40:23 2001
Response via : Multiple Level Calibration
DataAcq Meth : PRO1208.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\122900\C18254.D Vial: 5
Acq On : 29 Dec 2000 17:50 Operator: TAG/VR
Sample : AC05540 25ml DF=1 Inst : VOA-C
Misc : 26563/C12140025 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 29 18:16 2000 Quant Results File: 12290025.RES

Quant Method : c:\hpchem\1\data\122900\12290025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Fri Dec 29 10:24:33 2000
Response via : Initial Calibration
DataAcq Meth : 12290025

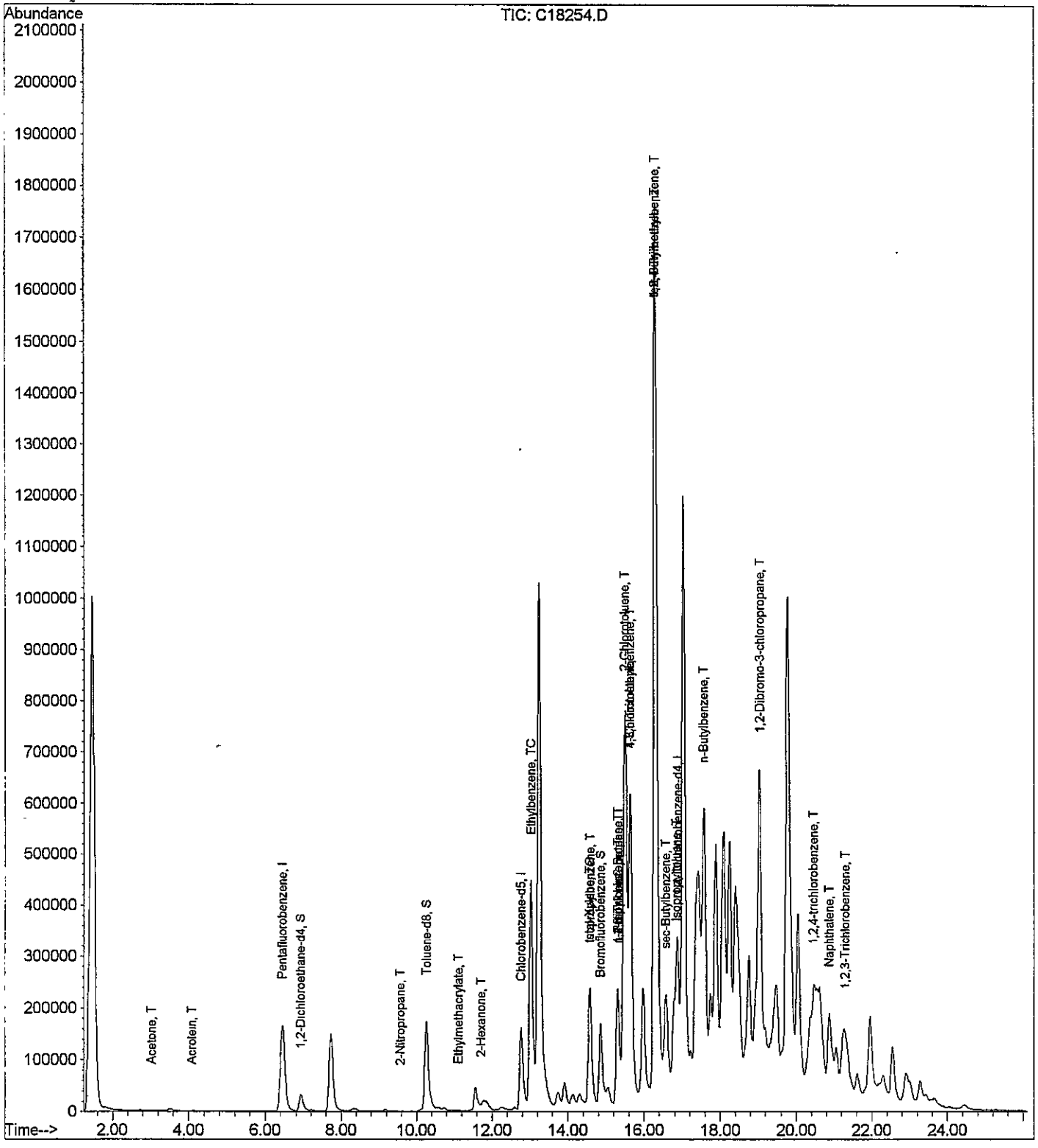
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Pentafluorobenzene	6.45	168	469188	10.00 ug\L	-0.02
45) Chlorobenzene-d5	12.77	117	320997	10.00 ug\L	0.00
61) 1,4-Dichlorobenzene-d4	16.89	152	159565	10.00 ug\L	0.00
System Monitoring Compounds					
32) 1,2-Dichloroethane-d4	6.93	65	81745	8.78 ug\L	-0.01
Spiked Amount 10.000	Range 80 - 120		Recovery = 87.80%		
46) Toluene-d8	10.26	98	446629	9.40 ug\L	-0.02
Spiked Amount 10.000	Range 87 - 104		Recovery = 94.00%		
65) Bromofluorobenzene	14.86	95	220814	9.98 ug\L	-0.01
Spiked Amount 10.000	Range 84 - 110		Recovery = 99.80%		
Target Compounds					Qvalue
8) Acrolein	4.08	56	148	~~0.56 ug\L #~~	1
11) Acetone	3.04	58	200	~~3.26 ug\L #~~	32
16) Methylene Chloride	3.51	86	4391	~~-0.58 ug\L #~~	58
34) Isobutyl alcohol	7.18	43	642	~~-17.51 ug\L #~~	17
41) 2-Nitropropane	9.59	43	828	~~-2.87 ug\L #~~	100
49) Ethylmethacrylate	11.10	69	464	~~-1.13 ug\L #~~	1
53) 2-Hexanone	11.72	43	1904	~~1.29 ug\L #~~	41
58) Ethylbenzene	13.03	91	1217556	19.59 ug\L	99
59) total-Xylene	14.57	106	94305m	10.29 ug\L	
63) Isopropylbenzene	14.59	105	619808	8.00 ug\L	99
64) 1,4-dichloro-2-Butene	15.31	75	3680	~~0.74 ug\L #~~	100
68) 1,2,3-Trichloropropane	15.31	75	3680	~~0.74 ug\L #~~	100
69) n-Propylbenzene	15.31	91	688656	8.28 ug\L	98
70) 2-Chlorotoluene	15.49	91	151339	~~3.33 ug\L #~~	33
71) 4-Chlorotoluene	15.63	91	149871	~~2.47 ug\L #~~	54
72) 1,3,5-Trimethylbenzene	15.63	105	1332180	22.43 ug\L	88
74) tert-Butylbenzene	16.29	119	469779	~~6.53 ug\L #~~	56
75) 1,2,4-Trimethylbenzene	16.29	105	4093371	73.45 ug\L #	85 NDIL
76) sec-Butylbenzene	16.58	105	528857	5.92 ug\L	94
78) Isopropyltoluene	16.83	119	669062	9.58 ug\L	94
81) n-Butylbenzene	17.58	91	367129	~~5.41 ug\L #~~	1
82) 1,2-Dibromo-3-chloropropan	19.05	75	10131	~~9.32 ug\L #~~	16
83) 1,2,4-trichlorobenzene	20.44	180	11123	0.78 ug\L	100
85) Naphthalene	20.88	128	350497	31.36 ug\L	100
86) 1,2,3-Trichlorobenzene	21.31	180	12350	1.23 ug\L #	77

VR
01/02/01

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

Data File : C:\HPCHEM\1\DATA\122900\C18254.D Vial: 5
Acq On : 29 Dec 2000 17:50 Operator: TAG/VR
Sample : AC05540 25ml DF=1 Inst : VOA-C
Misc : 26563/C12140025 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 29 18:16 2000 Quant Results File: 12290025.RES

Method : c:\hpchem\1\data\122900\12290025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Fri Dec 29 10:24:33 2000
Response via : Initial Calibration



1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.
029-SMW11-Q4

Lab Name: Accura Analytical Lab. Contract:

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

Matrix: (soil/water) WATER Lab Sample ID: AC05540

Sample wt/vol: 25.0 (g/ml) ML Lab File ID: C18254.D

Level: (low/med) LOW Date Received: 12/21/00

% Moisture: not dec. Date Analyzed: 12/29/00

GC Column: DB-624 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: 17

CAS NO.	COMPOUND NAME	RT	EST. CONC.	Q
1. 000000-00-0	2,3,5-Trimethylfuran	11.56	3	JN
2. 000611-14-3	Benzene, 1-ethyl-2-methyl-	15.49	26	JN
3. 000622-96-8	Benzene, 1-ethyl-4-methyl-	15.99	6	JN
4. 000622-96-8	Benzene, 1-ethyl-4-methyl-	17.02	32	JN
5.	Aromatic, unknown	17.43	16	J
6. 001758-88-9	Benzene, 2-ethyl-1,4-dimethyl-	17.57	14	JN
7. 000135-01-3	Benzene Isomer, diethyl-	17.75	3	JN
8. 001074-43-7	Benzene, 1-methyl-3-propyl-	17.88	12	JN
9. 000535-77-3	Benzene, 1-methyl-3-(1-methylet	18.09	15	JN
10. 000874-41-9	Benzene, 1-ethyl-2,4-dimethyl-	18.24	13	JN
11. 027133-93-3	2,3-Dihydro-1-methylindene	18.40	14	JN
12. 000099-87-6	Benzene, 1-methyl-4-(1-methylet	18.76	4	JN
13. 000527-53-7	Benzene, 1,2,3,5-tetramethyl-	19.03	13	JN
14. 000099-87-6	Benzene Isomer, methyl(methyle	19.77	32	JN
15. 000119-64-2	Naphthalene, 1,2,3,4-tetrahydro-	20.05	10	JN
16. 002809-64-5	Naphthalene Isomer, tetrahydro-	21.95	4	JN
17. 002809-64-5	Naphthalene, 1,2,3,4-tetrahydro-	22.55	3	JN

LSC Area Percent Report

Data File : C:\HPCHEM\1\DATA\122900\C18254.D Vial: 5
Acq On : 29 Dec 2000 17:50 Operator: TAG/VR
Sample : AC05540 25ml DF=1 Inst : VOA-C
Misc : 26563/C12140025 Multiplr: 1.00
MS Integration Params: LSCINT.P

Method : C:\HPCHEM\1\DATA\122900\12290025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Smoothing : OFF Filtering: 5
Sampling : 1 Min Area: 1 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	peak area	peak % max.	% of total
1	1.459	3	24	55	rBV	1002519	8721259	79.01%	9.504%
2	6.449	512	530	562	rBV	165474	1401218	12.69%	1.527%
3	6.932	567	579	601	rBV5	30719	234717	2.13%	0.256%
4	7.721	643	659	687	rBV2	149641	1099069	9.96%	1.198%
5	10.266	903	917	940	rBV	169632	1186105	10.75%	1.293%
6	11.558	1037	1048	1061	rBV3	43327	289450	2.62%	0.315%
7	12.771	1160	1171	1186	rBV	157316	995260	9.02%	1.085%
8	13.027	1186	1197	1207	rVV	439529	2700435	24.46%	2.943%
9	13.234	1208	1218	1257	rVB2	1016708	6986807	63.30%	7.614%
10	13.747	1261	1270	1279	rBV7	21431	130681	1.18%	0.142%
11	13.924	1280	1288	1300	rVB2	39741	215020	1.95%	0.234%
12	14.585	1343	1355	1373	rBV2	220932	1380509	12.51%	1.504%
13	14.861	1373	1383	1397	rBV2	150384	914004	8.28%	0.996%
14	15.315	1417	1429	1436	rBV	219786	1305713	11.83%	1.423%
15	15.492	1437	1447	1456	rVV	741930	5284213	47.87%	5.759%
16	15.630	1457	1461	1483	rVB	581533	3367868	30.51%	3.670%
17	15.985	1486	1497	1512	rBV	196371	1213894	11.00%	1.323%
18	16.291	1516	1528	1548	rBV	1708957	11038050	100.00%	12.029%
19	16.577	1550	1557	1569	rVB3	149421	873725	7.92%	0.952%
20	16.873	1570	1587	1593	rBV4	261464	2050975	18.58%	2.235%
21	17.021	1594	1602	1619	rVB2	1090525	6584131	59.65%	7.175%
22	17.425	1628	1643	1650	rBV5	362472	3254447	29.48%	3.547%
23	17.573	1653	1658	1670	rVV4	485516	2799772	25.36%	3.051%
24	17.751	1671	1676	1681	rVV3	123417	582373	5.28%	0.635%
25	17.879	1682	1689	1700	rVV	415339	2439054	22.10%	2.658%
26	18.086	1700	1710	1719	rVV2	438724	3146632	28.51%	3.429%
27	18.244	1719	1726	1735	rVV3	420231	2635726	23.88%	2.872%
28	18.402	1736	1742	1763	rVB3	333796	2864633	25.95%	3.122%
29	18.757	1771	1778	1789	rVB4	165589	841286	7.62%	0.917%
30	19.033	1799	1806	1819	rVB	504891	2736628	24.79%	2.982%
31	19.772	1870	1881	1900	rBV	880359	6477494	58.68%	7.059%
32	20.049	1901	1909	1927	rVB2	312684	1998535	18.11%	2.178%

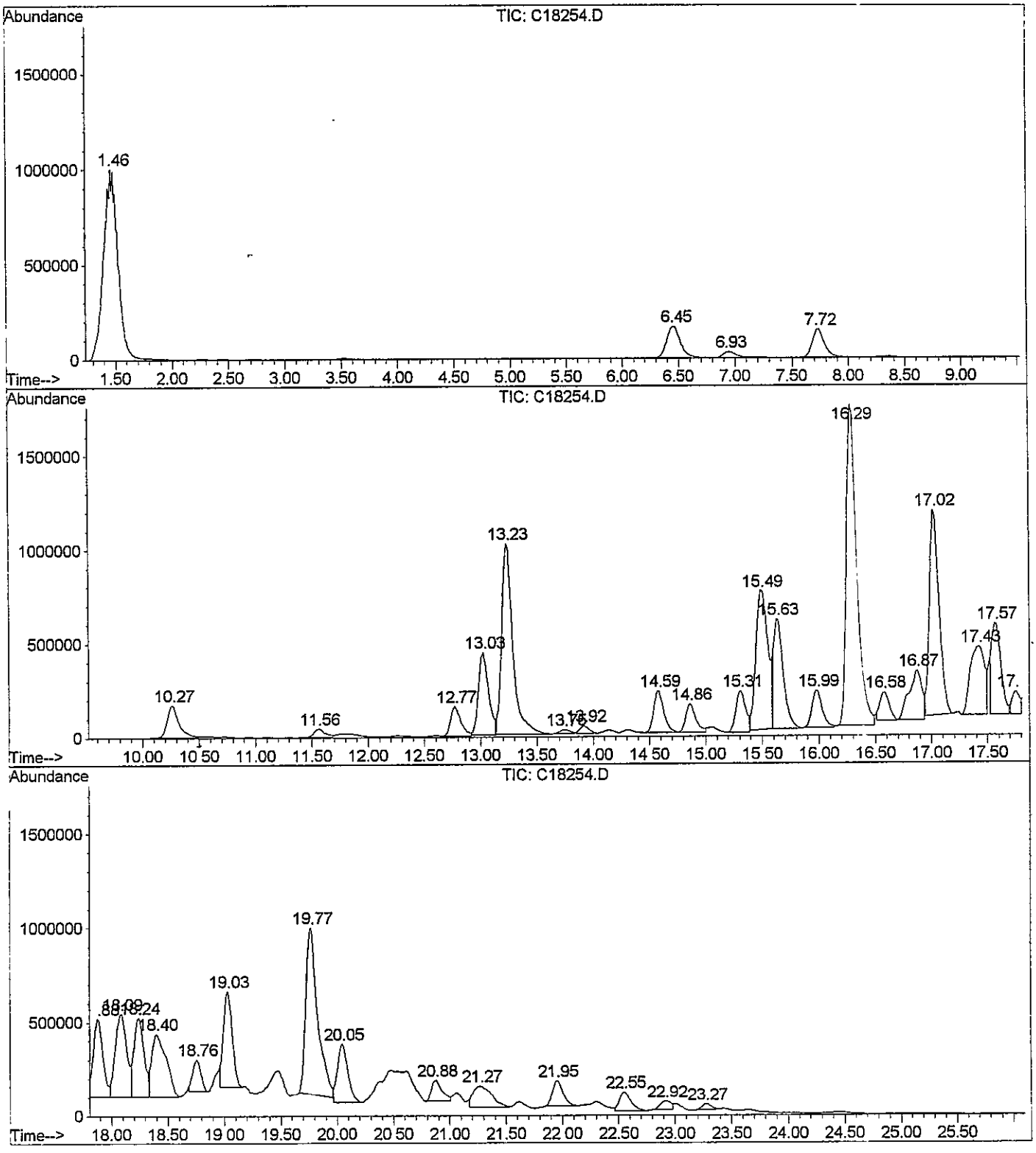
33	20.877	1985	1993	2006	rBV3	110884	694813	6.29%	0.757%
34	21.271	2023	2033	2059	rVB7	114939	1297956	11.76%	1.414%
35	21.952	2092	2102	2122	rBV3	135340	888480	8.05%	0.968%
36	22.553	2154	2163	2183	rVB3	102244	686771	6.22%	0.748%
37	22.918	2190	2200	2206	rBV5	44231	280493	2.54%	0.306%
38	23.273	2229	2236	2246	rBV2	31093	164425	1.49%	0.179%

Sum of corrected areas: 91762621

C18254.D 12290025.M Thu Jan 04 14:26:49 2001 RPT1

LSC Report - Integrated Chromatogram

File : C:\HPCHEM\1\DATA\122900\C18254.D
Operator : TAG/VR
Acquired : 29 Dec 2000 17:50 using AcqMethod 12290025
Instrument : VOA-C
Sample Name: AC05540 25ml DF=1
Misc Info : 26563/C12140025
Vial Number: 5
Quant File :12290025.RES (RTE Integrator)



Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\122900\C18254.D Vial: 5
Acq On : 29 Dec 2000 17:50 Operator: TAG/VR
Sample : AC05540 25ml DF=1 Inst : VOA-C
Misc : 26563/C12140025 Multiplr: 1.00
MS Integration Params: LSCINT.P

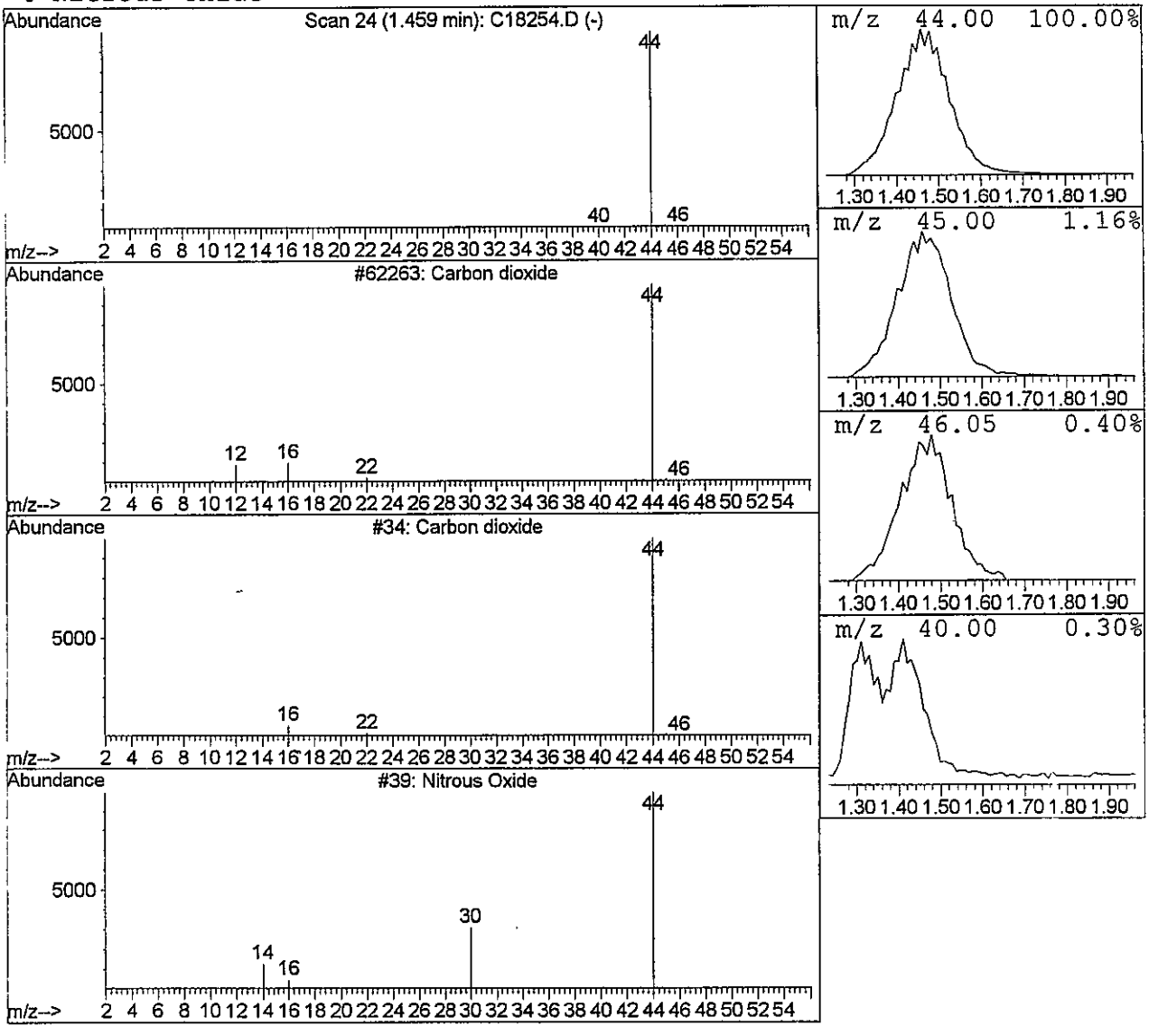
Quant Method : C:\HPCHEM\1\DATA\122900\12290025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Library : C:\DATABASE\NBS75K.L

****

Peak Number 1 Carbon dioxide Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
1.46	62.24 ug\L	8721260	Pentafluorobenzene	6.45

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Carbon dioxide	44	CO2	000124-38-9	4
2	Carbon dioxide	44	CO2	000124-38-9	4
3	Nitrous Oxide	44	N2O	010024-97-2	3
4	Nitrous Oxide	44	N2O	010024-97-2	3



Data File : C:\HPCHEM\1\DATA\122900\C18254.D Vial: 5
Acq On : 29 Dec 2000 17:50 Operator: TAG/VR
Sample : AC05540 25ml DF=1 Inst : VOA-C
Misc : 26563/C12140025 Multiplr: 1.00
MS Integration Params: LSCINT.P

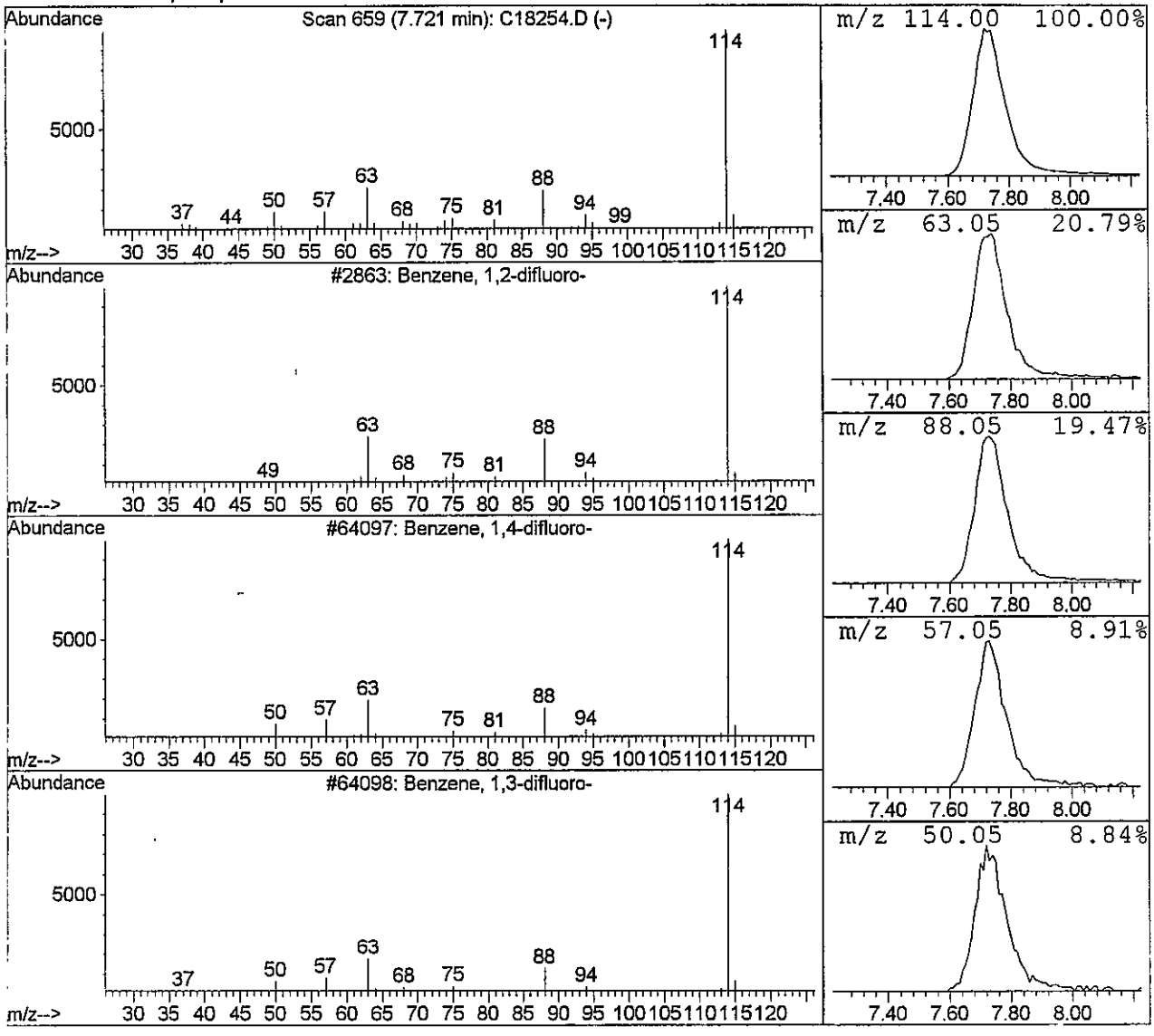
Quant Method : C:\HPCHEM\1\DATA\122900\12290025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Library : C:\DATABASE\NBS75K.L

****

Peak Number 2 Benzene, 1,2-difluoro- Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.72	7.84 ug\L	1099070	Pentafluorobenzene	6.45

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1,2-difluoro-	114	C6H4F2	000367-11-3	97
2	Benzene, 1,4-difluoro-	114	C6H4F2	000540-36-3	97
3	Benzene, 1,3-difluoro-	114	C6H4F2	000372-18-9	95
4	Benzene, 1,2-difluoro-	114	C6H4F2	000367-11-3	94



Data File : C:\HPCHEM\1\DATA\122900\C18254.D Vial: 5
Acq On : 29 Dec 2000 17:50 Operator: TAG/VR
Sample : AC05540 25ml DF=1 Inst : VOA-C
Misc : 26563/C12140025 Multiplr: 1.00
MS Integration Params: LSCINT.P

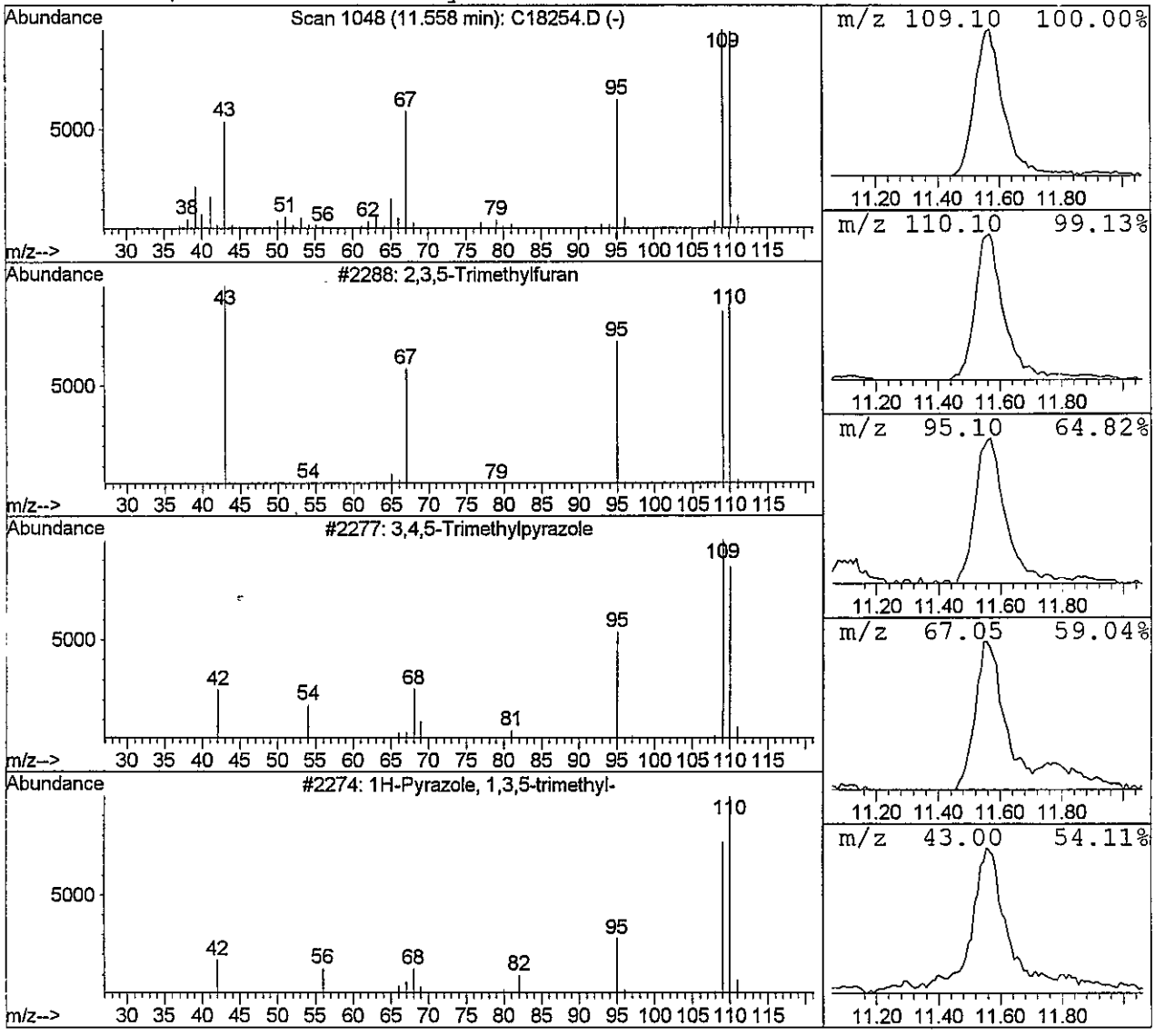
Quant Method : C:\HPCHEM\1\DATA\122900\12290025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Library : C:\DATABASE\NBS75K.L

****

Peak Number 3 2,3,5-Trimethylfuran Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.56	2.91 ug\L	289450	Chlorobenzene-d5	12.77

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2,3,5-Trimethylfuran	110	C7H10O	000000-00-0	86
2	3,4,5-Trimethylpyrazole	110	C6H10N2	005519-42-6	72
3	1H-Pyrazole, 1,3,5-trimethyl-	110	C6H10N2	001072-91-9	50
4	Benzene, 1-fluoro-2-methyl-	110	C7H7F	000095-52-3	49



Data File : C:\HPCHEM\1\DATA\122900\C18254.D Vial: 5
Acq On : 29 Dec 2000 17:50 Operator: TAG/VR
Sample : AC05540 25ml DF=1 Inst : VOA-C
Misc : 26563/C12140025 Multiplr: 1.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\DATA\122900\12290025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Library : C:\DATABASE\NBS75K.L

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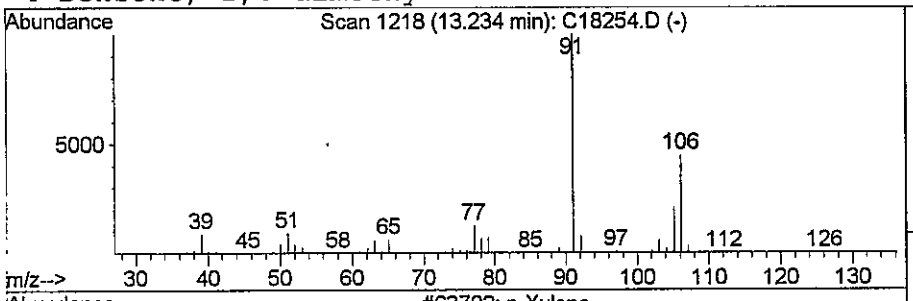
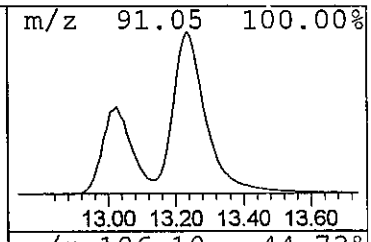
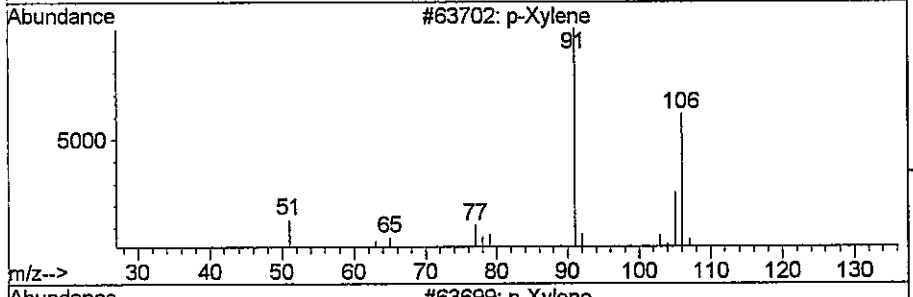
Peak Number 4 p-Xylene Concentration Rank 1

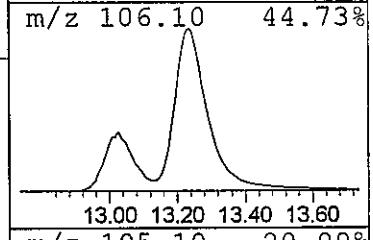
R.T.	EstConc	Area	Relative to ISTD	R.T.
13.23	70.20 ug\L	6986810	Chlorobenzene-d5	12.77

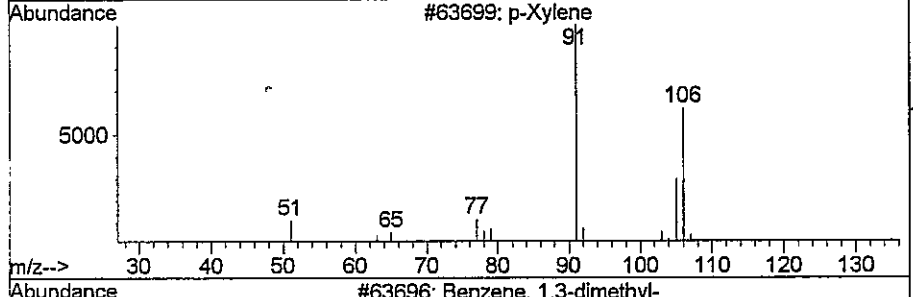
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	p-Xylene	106	C8H10	000106-42-3	97
2	p-Xylene	106	C8H10	000106-42-3	97
3	Benzene, 1,3-dimethyl-	106	C8H10	000108-38-3	97
4	Benzene, 1,3-dimethyl-	106	C8H10	000108-38-3	97

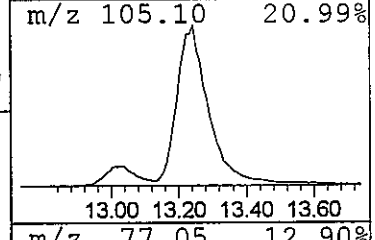


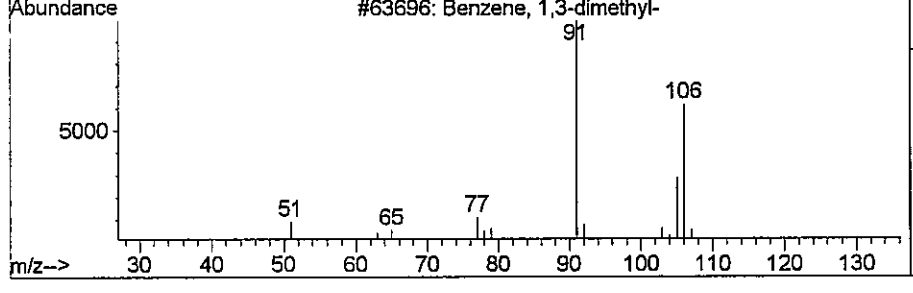


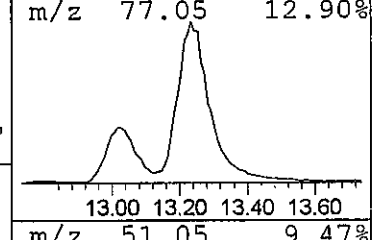


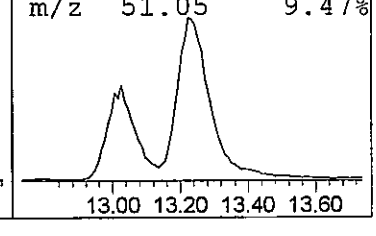












Data File : C:\HPCHEM\1\DATA\122900\C18254.D Vial: 5
Acq On : 29 Dec 2000 17:50 Operator: TAG/VR
Sample : AC05540 25ml DF=1 Inst : VOA-C
Misc : 26563/C12140025 Multiplr: 1.00
MS Integration Params: LSCINT.P

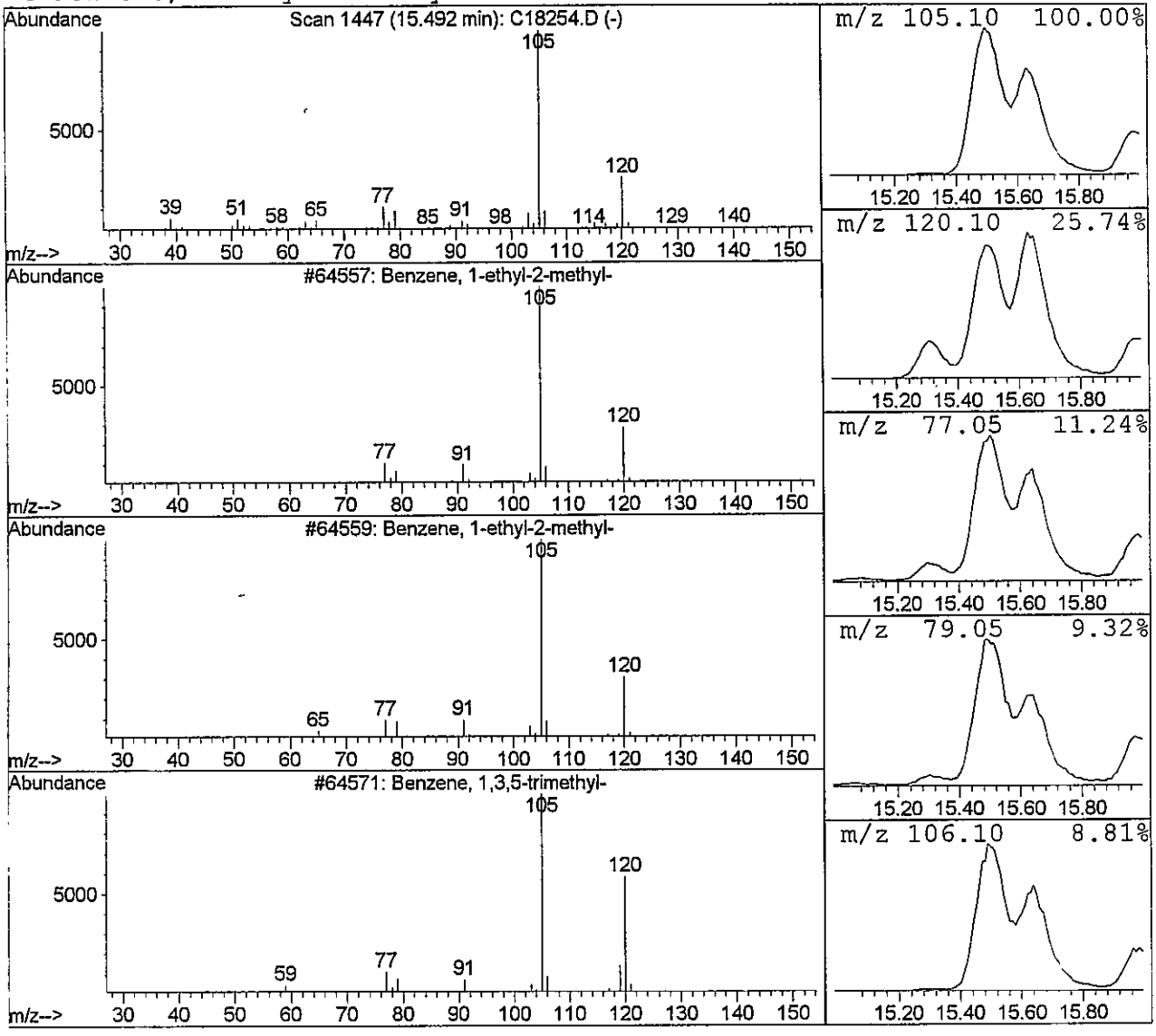
Quant Method : C:\HPCHEM\1\DATA\122900\12290025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Library : C:\DATABASE\NBS75K.L

****

Peak Number 5 Benzene, 1-ethyl-2-methyl- Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.49	25.76 ug\L	5284210	1,4-Dichlorobenzene-d4	16.89

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1-ethyl-2-methyl-	120	C9H12	000611-14-3	94
2	Benzene, 1-ethyl-2-methyl-	120	C9H12	000611-14-3	94
3	Benzene, 1,3,5-trimethyl-	120	C9H12	000108-67-8	91
4	Benzene, 1-ethyl-2-methyl-	120	C9H12	000611-14-3	91



Data File : C:\HPCHEM\1\DATA\122900\C18254.D Vial: 5
Acq On : 29 Dec 2000 17:50 Operator: TAG/VR
Sample : AC05540 25ml DF=1 Inst : VOA-C
Misc : 26563/C12140025 Multiplr: 1.00
MS Integration Params: LSCINT.P

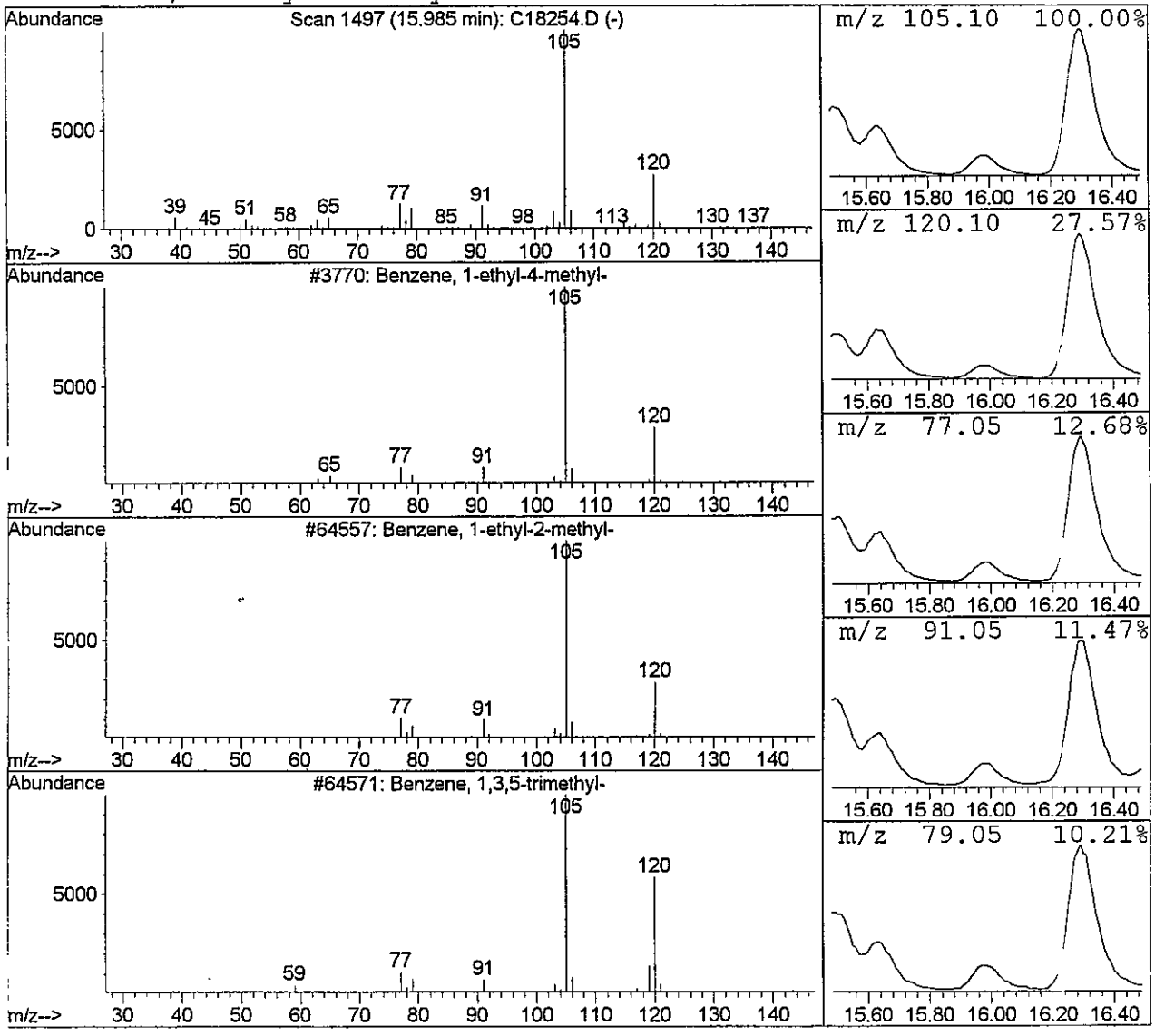
Quant Method : C:\HPCHEM\1\DATA\122900\12290025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Library : C:\DATABASE\NBS75K.L

****

Peak Number 6 Benzene, 1-ethyl-4-methyl- Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.99	5.92 ug\L	1213890	1,4-Dichlorobenzene-d4	16.89

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1-ethyl-4-methyl-	120	C9H12	000622-96-8	94
2	Benzene, 1-ethyl-2-methyl-	120	C9H12	000611-14-3	91
3	Benzene, 1,3,5-trimethyl-	120	C9H12	000108-67-8	91
4	Benzene, 1-ethyl-3-methyl-	120	C9H12	000620-14-4	91



Data File : C:\HPCHEM\1\DATA\122900\C18254.D Vial: 5
Acq On : 29 Dec 2000 17:50 Operator: TAG/VR
Sample : AC05540 25ml DF=1 Inst : VOA-C
Misc : 26563/C12140025 Multiplr: 1.00
MS Integration Params: LSCINT.P

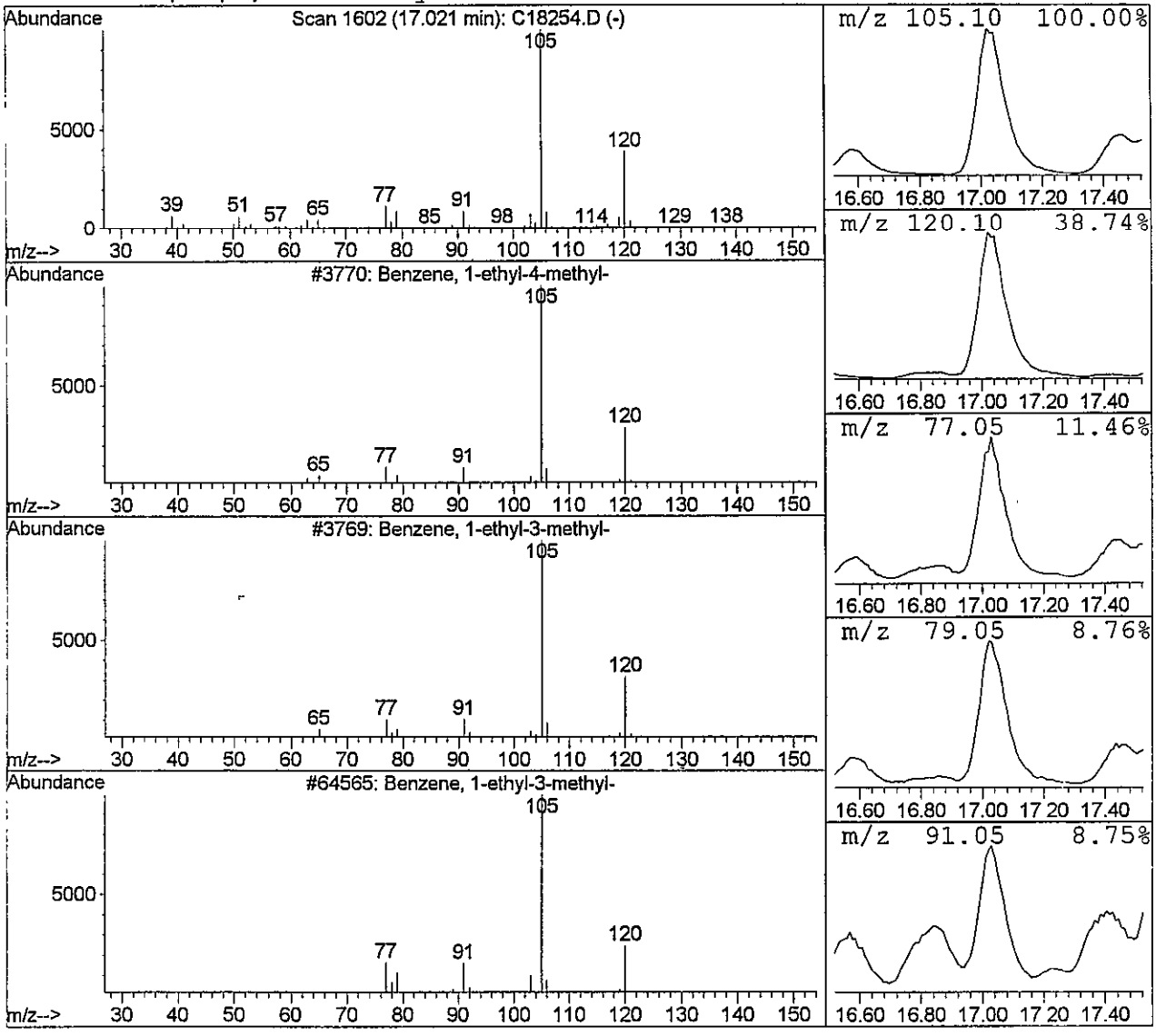
Quant Method : C:\HPCHEM\1\DATA\122900\12290025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Library : C:\DATABASE\NBS75K.L

****

Peak Number 7 Benzene, 1-ethyl-4-methyl- Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.02	32.10 ug\L	6584130	1,4-Dichlorobenzene-d4	16.89

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1-ethyl-4-methyl-	120	C9H12	000622-96-8	94
2	Benzene, 1-ethyl-3-methyl-	120	C9H12	000620-14-4	94
3	Benzene, 1-ethyl-3-methyl-	120	C9H12	000620-14-4	91
4	Benzene, 1,2,3-trimethyl-	120	C9H12	000526-73-8	91



Data File : C:\HPCHEM\1\DATA\122900\C18254.D Vial: 5
Acq On : 29 Dec 2000 17:50 Operator: TAG/VR
Sample : AC05540 25ml DF=1 Inst : VOA-C
Misc : 26563/C12140025 Multiplr: 1.00
MS Integration Params: LSCINT.P

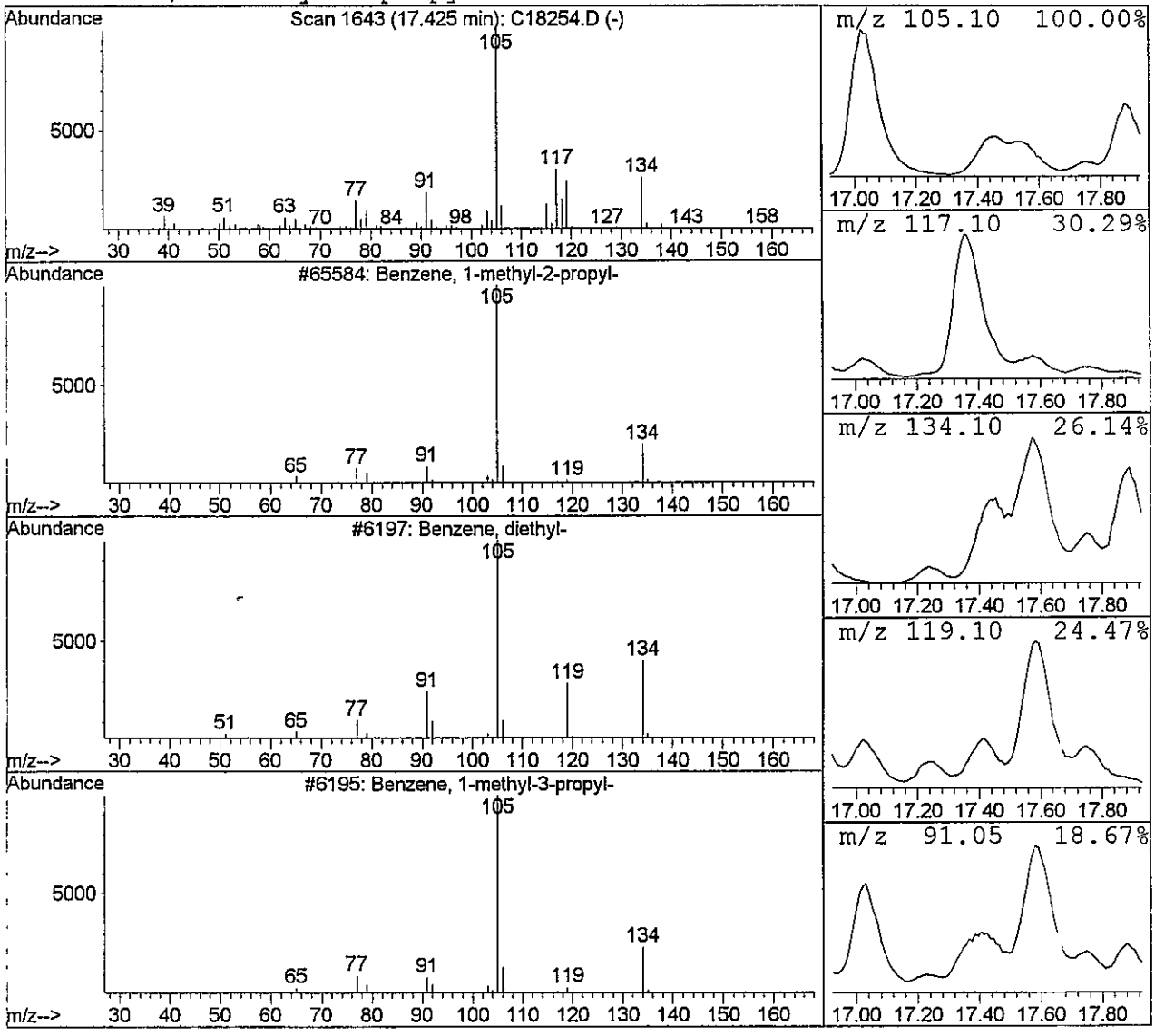
Quant Method : C:\HPCHEM\1\DATA\122900\12290025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Library : C:\DATABASE\NBS75K.L

****

Peak Number 8 Benzene, 1-methyl-2-propyl- Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.43	15.87 ug\L	3254450	1,4-Dichlorobenzene-d4	16.89

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1-methyl-2-propyl-	134	C10H14	001074-17-5	55
2	Benzene, diethyl-	134	C10H14	025340-17-4	50
3	Benzene, 1-methyl-3-propyl-	134	C10H14	001074-43-7	49
4	Benzene, 1-methyl-3-propyl-	134	C10H14	001074-43-7	49



Data File : C:\HPCHEM\1\DATA\122900\C18254.D Vial: 5
Acq On : 29 Dec 2000 17:50 Operator: TAG/VR
Sample : AC05540 25ml DF=1 Inst : VOA-C
Misc : 26563/C12140025 Multiplr: 1.00
MS Integration Params: LSCINT.P

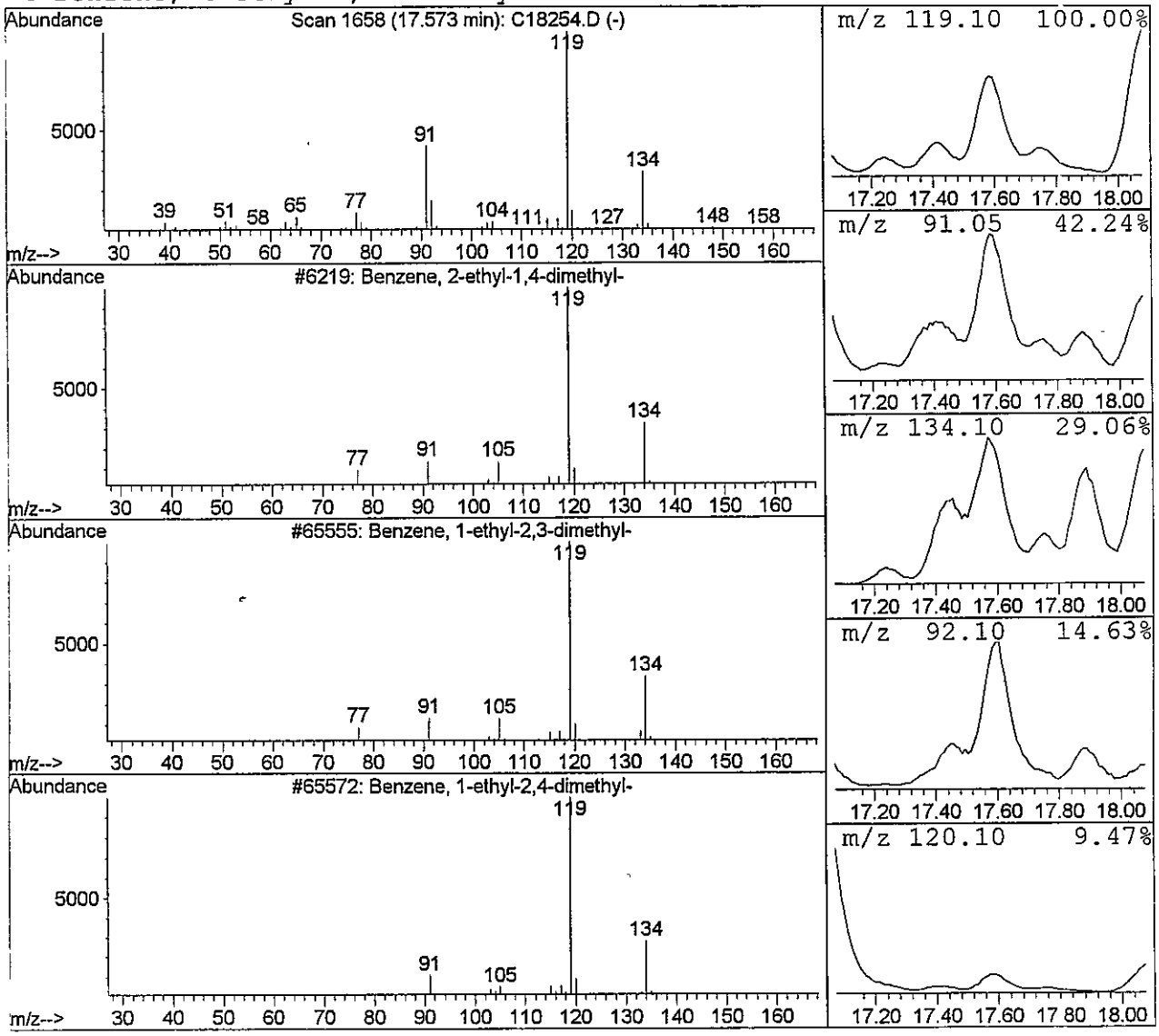
Quant Method : C:\HPCHEM\1\DATA\122900\12290025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Library : C:\DATABASE\NBS75K.L

****

Peak Number 9 Benzene, 2-ethyl-1,4-dimethyl- Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.57	13.65 ug\L	2799770	1,4-Dichlorobenzene-d4	16.89

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 2-ethyl-1,4-dimethyl-	134	C10H14	001758-88-9	90
2	Benzene, 1-ethyl-2,3-dimethyl-	134	C10H14	000933-98-2	87
3	Benzene, 1-ethyl-2,4-dimethyl-	134	C10H14	000874-41-9	87
4	Benzene, 4-ethyl-1,2-dimethyl-	134	C10H14	000934-80-5	87



Data File : C:\HPCHEM\1\DATA\122900\C18254.D Vial: 5
Acq On : 29 Dec 2000 17:50 Operator: TAG/VR
Sample : AC05540 25ml DF=1 Inst : VOA-C
Misc : 26563/C12140025 Multiplr: 1.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\DATA\122900\12290025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Library : C:\DATABASE\NBS75K.L

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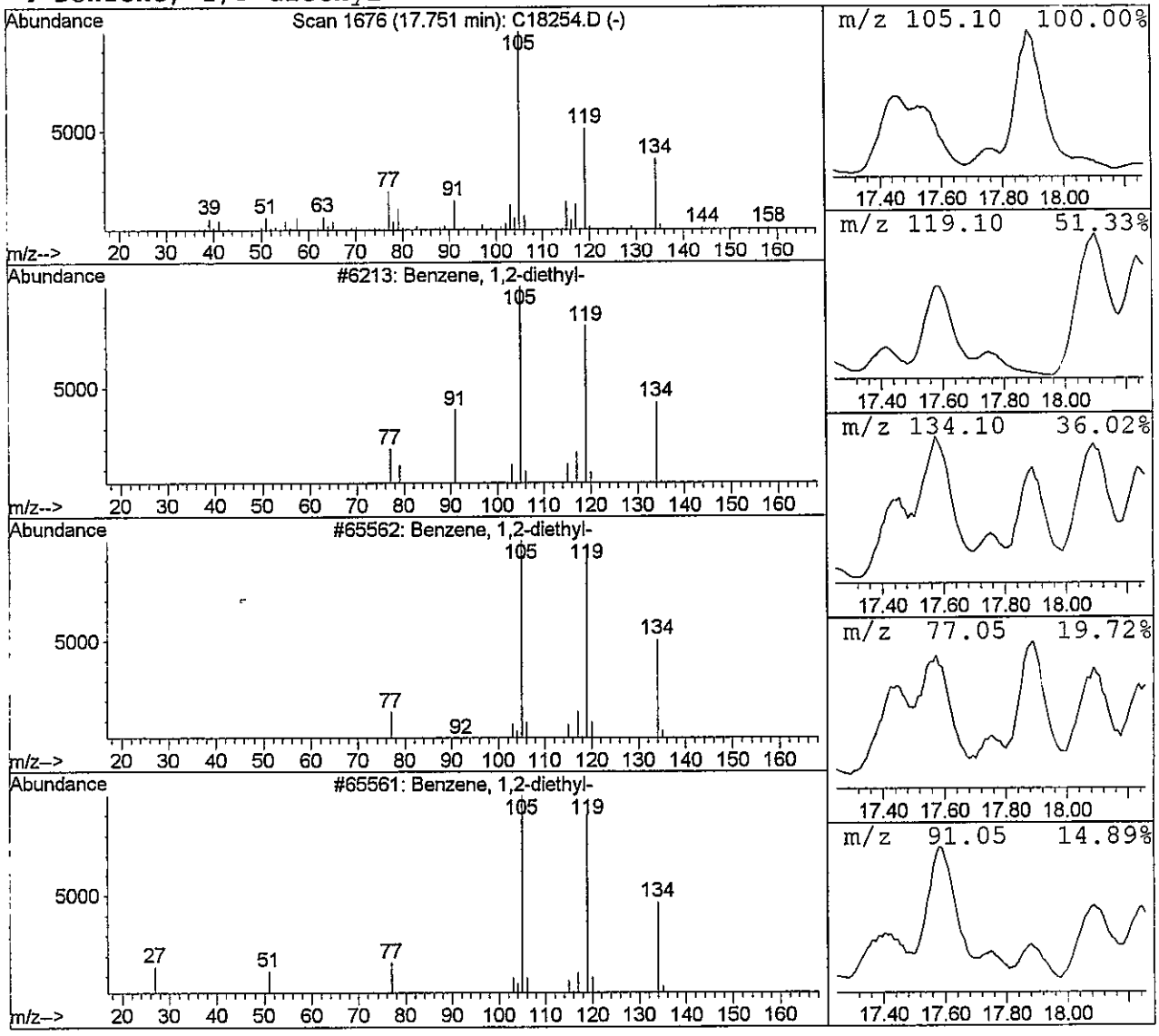
Peak Number 10 Benzene, 1,2-diethyl- Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.75	2.84 ug\L	582373	1,4-Dichlorobenzene-d4	16.89

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1,2-diethyl-	134	C10H14	000135-01-3	81
2	Benzene, 1,2-diethyl-	134	C10H14	000135-01-3	72
3	Benzene, 1,2-diethyl-	134	C10H14	000135-01-3	53
4	Benzene, 1,3-diethyl-	134	C10H14	000141-93-5	50



Data File : C:\HPCHEM\1\DATA\122900\C18254.D Vial: 5
Acq On : 29 Dec 2000 17:50 Operator: TAG/VR
Sample : AC05540 25ml DF=1 Inst : VOA-C
Misc : 26563/C12140025 Multiplr: 1.00
MS Integration Params: LSCINT.P

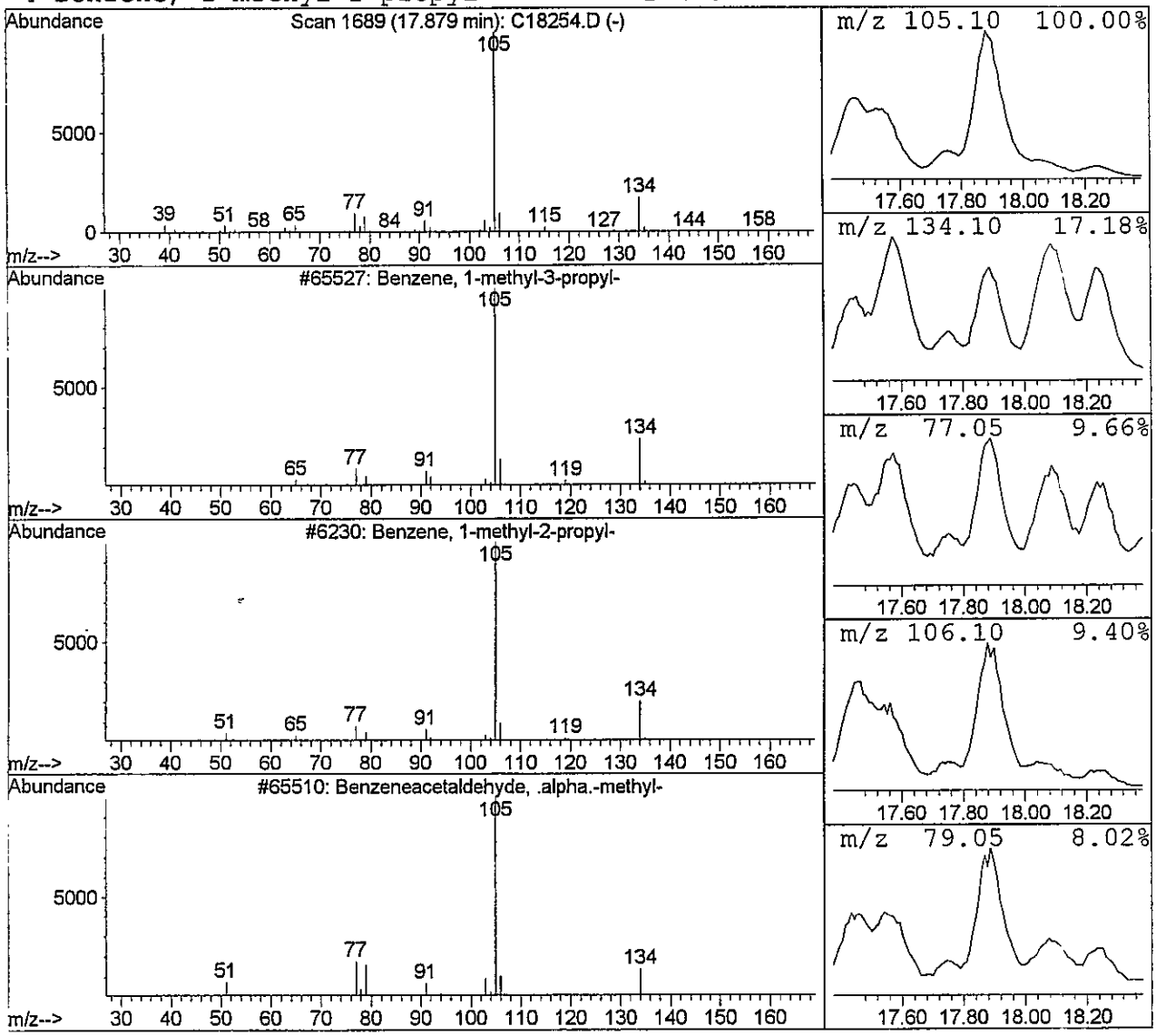
Quant Method : C:\HPCHEM\1\DATA\122900\12290025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Library : C:\DATABASE\NBS75K.L

****

Peak Number 11 Benzene, 1-methyl-3-propyl- Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.88	11.89 ug\L	2439050	1,4-Dichlorobenzene-d4	16.89

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1-methyl-3-propyl-	134	C10H14	001074-43-7	91
2	Benzene, 1-methyl-2-propyl-	134	C10H14	001074-17-5	90
3	Benzeneacetaldehyde, .alpha.-methyl	134	C9H10O	000093-53-8	90
4	Benzene, 1-methyl-2-propyl-	134	C10H14	001074-17-5	87



Data File : C:\HPCHEM\1\DATA\122900\C18254.D Vial: 5
Acq On : 29 Dec 2000 17:50 Operator: TAG/VR
Sample : AC05540 25ml DF=1 Inst : VOA-C
Misc : 26563/C12140025 Multiplr: 1.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\DATA\122900\12290025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Library : C:\DATABASE\NBS75K.L

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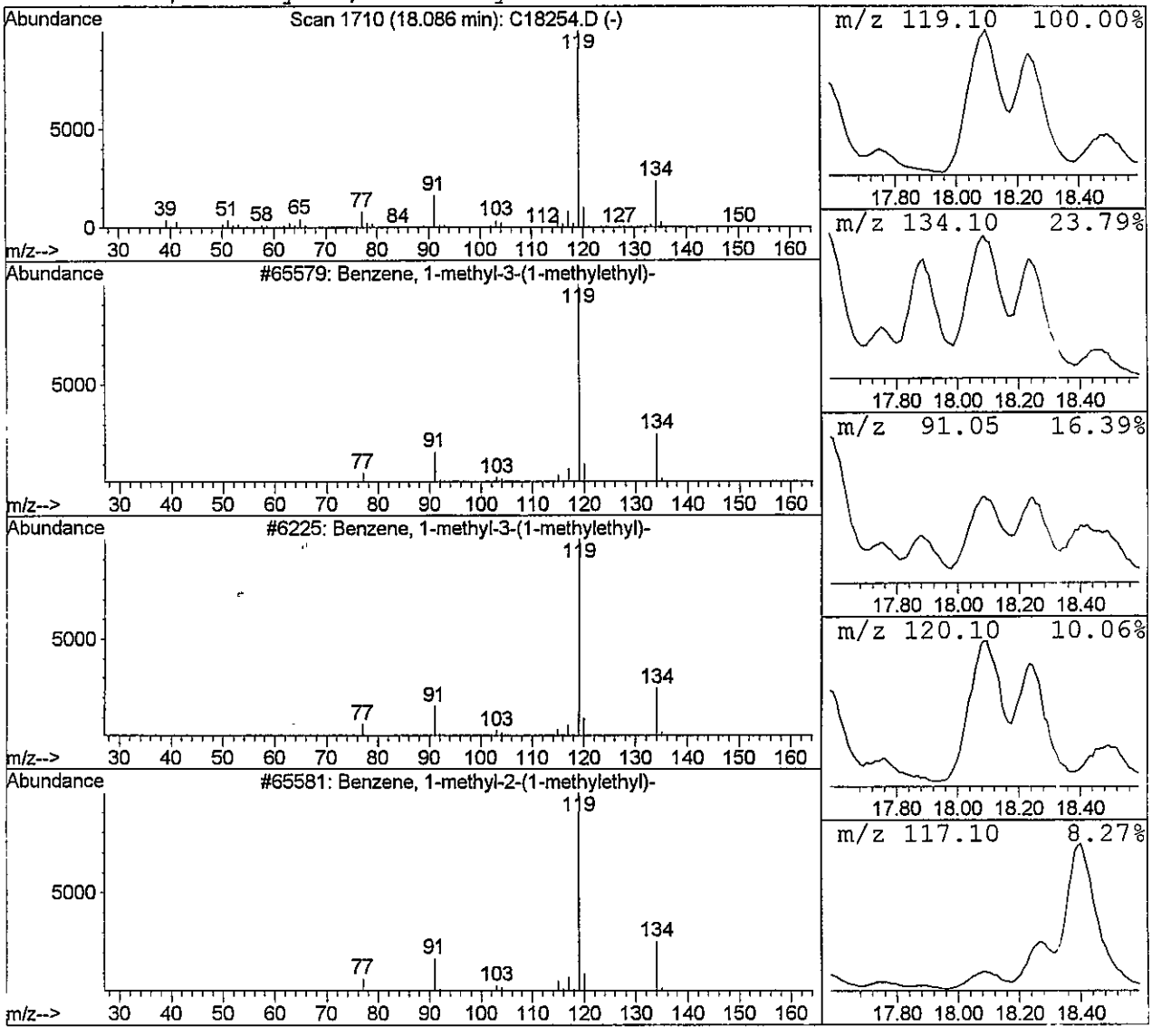
Peak Number 12 Benzene, 1-methyl-3-(1-methyle Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.09	15.34 ug\L	3146630	1,4-Dichlorobenzene-d4	16.89

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1-methyl-3-(1-methylethyl)	134	C10H14	000535-77-3	94
2	Benzene, 1-methyl-3-(1-methylethyl)	134	C10H14	000535-77-3	94
3	Benzene, 1-methyl-2-(1-methylethyl)	134	C10H14	000527-84-4	91
4	Benzene, 1-ethyl-3,5-dimethyl-	134	C10H14	000934-74-7	91



Data File : C:\HPCHEM\1\DATA\122900\C18254.D
Acq On : 29 Dec 2000 17:50
Sample : AC05540 25ml DF=1
Misc : 26563/C12140025
MS Integration Params: LSCINT.P

Vial: 5
Operator: TAG/VR
Inst : VOA-C
Multiplr: 1.00

Quant Method : C:\HPCHEM\1\DATA\122900\12290025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Library : C:\DATABASE\NBS75K.L

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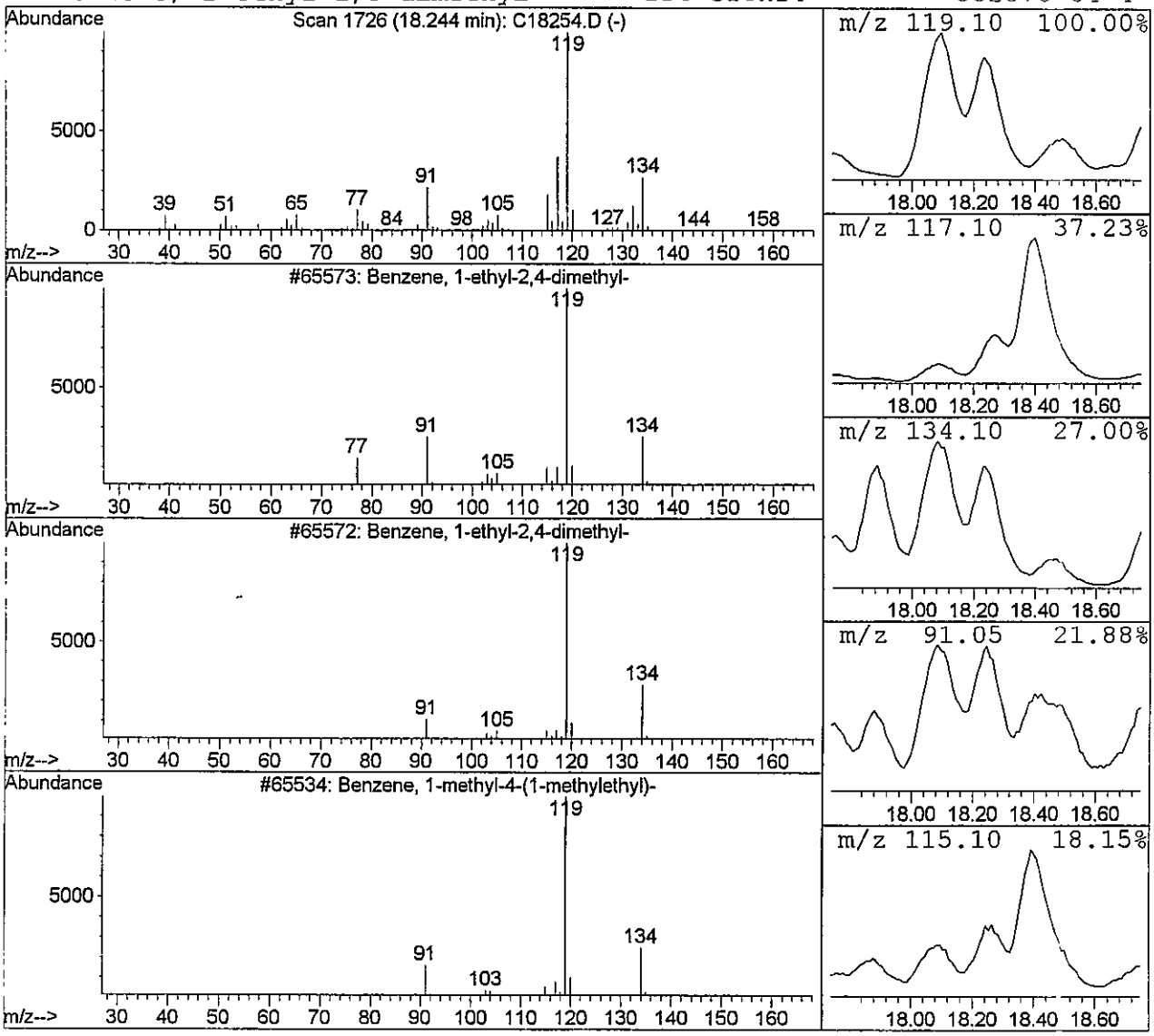
Peak Number 13 Benzene, 1-ethyl-2,4-dimethyl- Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.24	12.85 ug\L	2635730	1,4-Dichlorobenzene-d4	16.89

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1-ethyl-2,4-dimethyl-	134	C10H14	000874-41-9	81
2	Benzene, 1-ethyl-2,4-dimethyl-	134	C10H14	000874-41-9	81
3	Benzene, 1-methyl-4-(1-methylethyl)	134	C10H14	000099-87-6	76
4	Benzene, 2-ethyl-1,3-dimethyl-	134	C10H14	002870-04-4	76



Data File : C:\HPCHEM\1\DATA\122900\C18254.D Vial: 5
Acq On : 29 Dec 2000 17:50 Operator: TAG/VR
Sample : AC05540 25ml DF=1 Inst : VOA-C
Misc : 26563/C12140025 Multiplr: 1.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\DATA\122900\12290025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Library : C:\DATABASE\NBS75K.L

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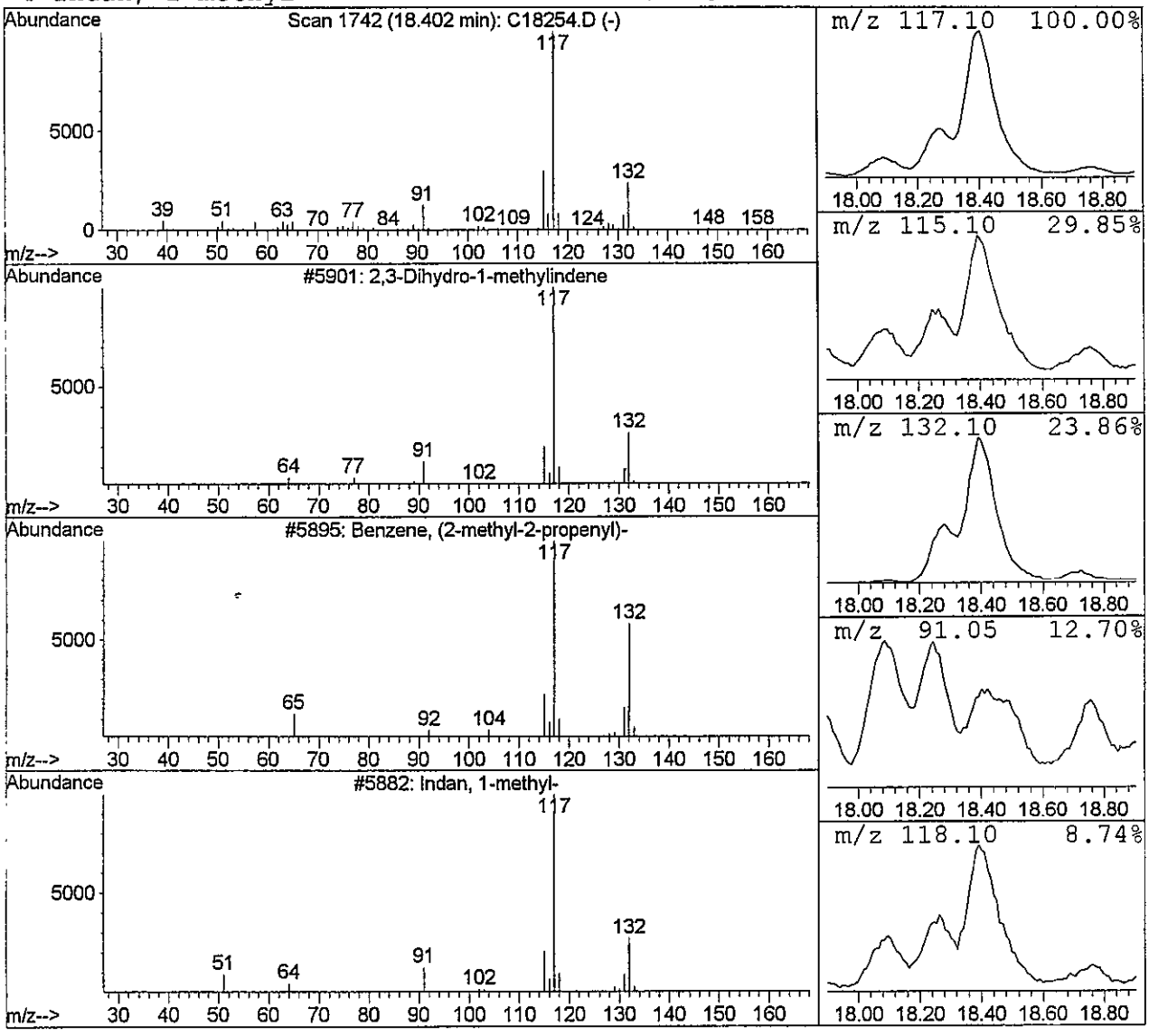
Peak Number 14 2,3-Dihydro-1-methylindene Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.40	13.97 ug\L	2864630	1,4-Dichlorobenzene-d4	16.89

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2,3-Dihydro-1-methylindene	132	C10H12	027133-93-3	90
2	Benzene, (2-methyl-2-propenyl)-	132	C10H12	003290-53-7	87
3	Indan, 1-methyl-	132	C10H12	000767-58-8	87
4	Indan, 1-methyl-	132	C10H12	000767-58-8	83



Data File : C:\HPCHEM\1\DATA\122900\C18254.D Vial: 5
Acq On : 29 Dec 2000 17:50 Operator: TAG/VR
Sample : AC05540 25ml DF=1 Inst : VOA-C
Misc : 26563/C12140025 Multiplr: 1.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\DATA\122900\12290025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Library : C:\DATABASE\NBS75K.L

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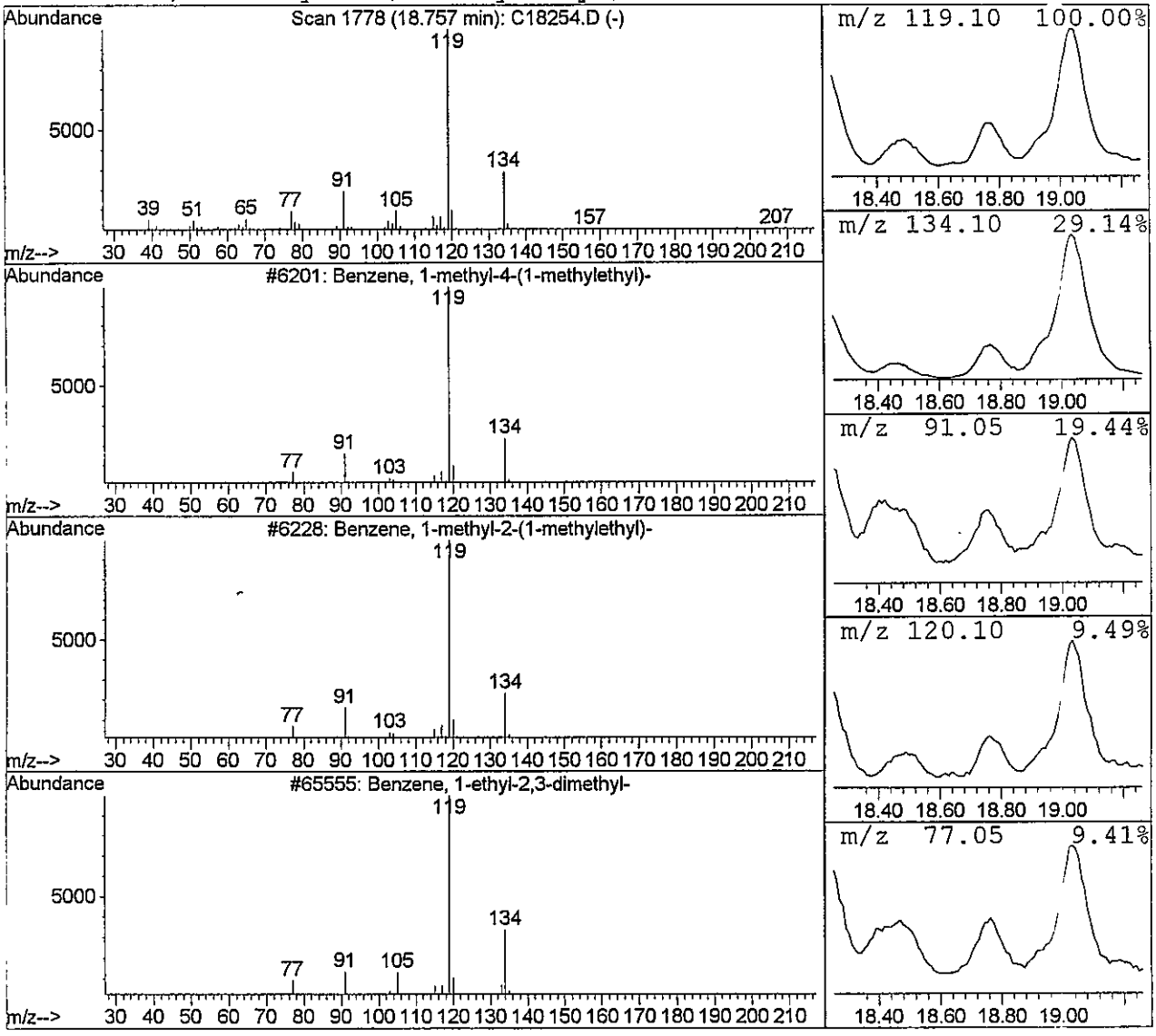
Peak Number 15 Benzene, 1-methyl-4-(1-methyle Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.76	4.10 ug\L	841286	1,4-Dichlorobenzene-d4	16.89

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1-methyl-4-(1-methylethyl)	134	C10H14	000099-87-6	94
2	Benzene, 1-methyl-2-(1-methylethyl)	134	C10H14	000527-84-4	93
3	Benzene, 1-ethyl-2,3-dimethyl-	134	C10H14	000933-98-2	91
4	Benzene, 1-methyl-4-(1-methylethyl)	134	C10H14	000099-87-6	91



Data File : C:\HPCHEM\1\DATA\122900\C18254.D
Acq On : 29 Dec 2000 17:50
Sample : AC05540 25ml DF=1
Misc : 26563/C12140025
MS Integration Params: LSCINT.P

Vial: 5
Operator: TAG/VR
Inst : VOA-C
Multiplr: 1.00

Quant Method : C:\HPCHEM\1\DATA\122900\12290025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Library : C:\DATABASE\NBS75K.L

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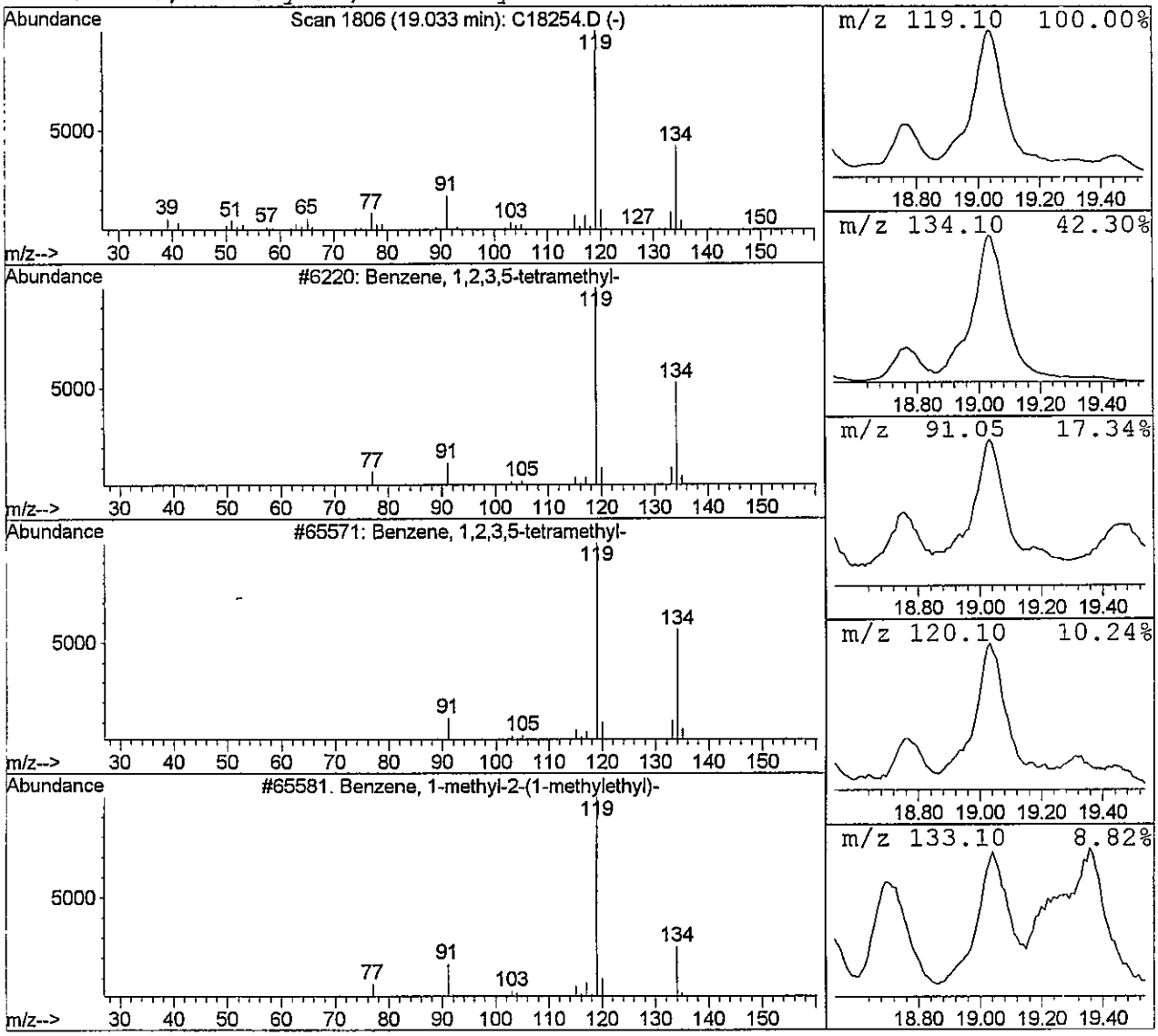
Peak Number 16 Benzene, 1,2,3,5-tetramethyl- Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.03	13.34 ug\L	2736630	1,4-Dichlorobenzene-d4	16.89

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1,2,3,5-tetramethyl-	134	C10H14	000527-53-7	94
2	Benzene, 1,2,3,5-tetramethyl-	134	C10H14	000527-53-7	94
3	Benzene, 1-methyl-2-(1-methylethyl)	134	C10H14	000527-84-4	94
4	Benzene, 2-ethyl-1,3-dimethyl-	134	C10H14	002870-04-4	91



Data File : C:\HPCHEM\1\DATA\122900\C18254.D
Acq On : 29 Dec 2000 17:50
Sample : AC05540 25ml DF=1
Misc : 26563/C12140025
MS Integration Params: LSCINT.P

Vial: 5
Operator: TAG/VR
Inst : VOA-C
Multiplr: 1.00

Quant Method : C:\HPCHEM\1\DATA\122900\12290025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Library : C:\DATABASE\NBS75K.L

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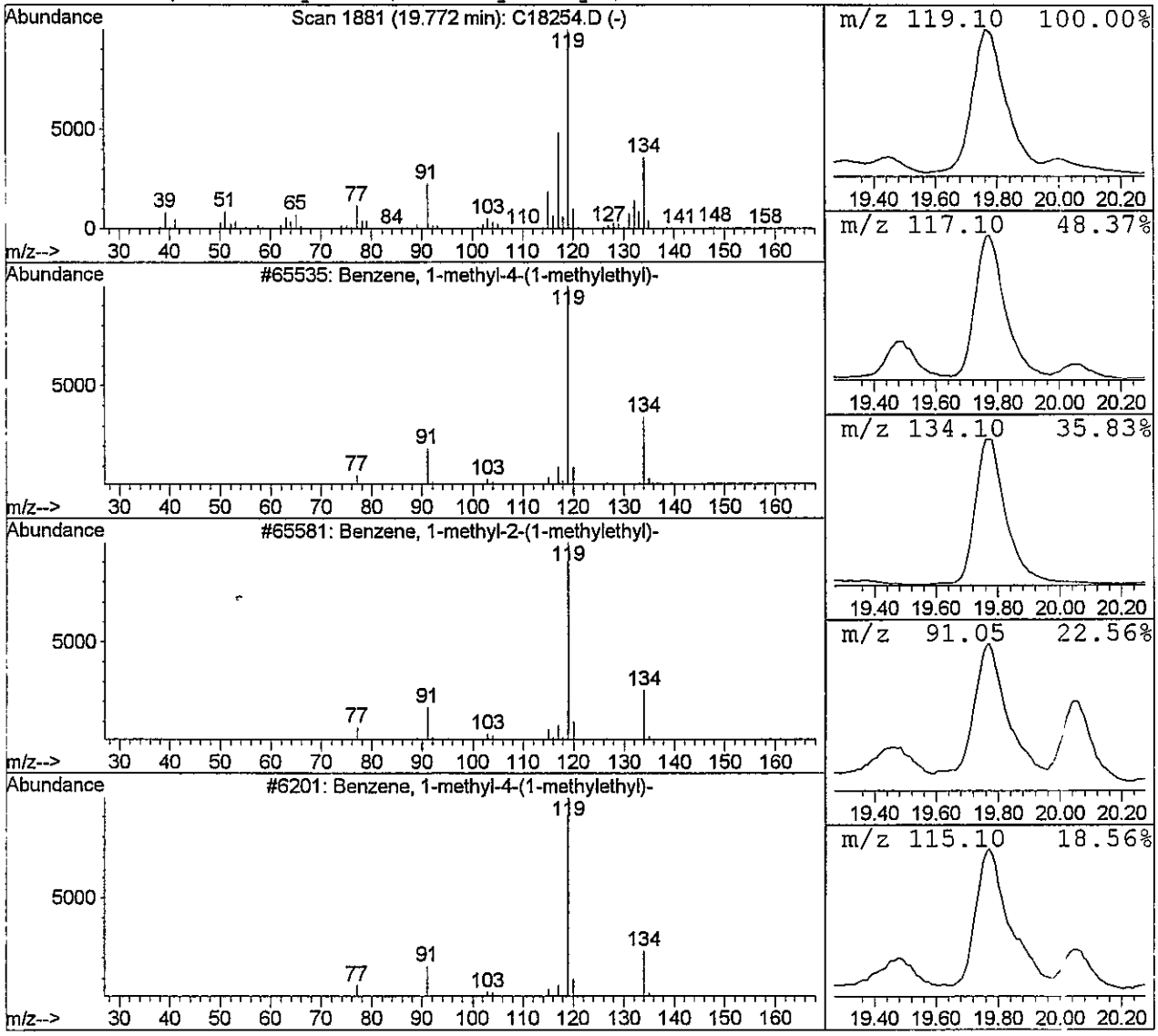
Peak Number 17 Benzene, 1-methyl-4-(1-methyle Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.77	31.58 ug\L	6477490	1,4-Dichlorobenzene-d4	16.89

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1-methyl-4-(1-methylethyl)	134	C10H14	000099-87-6	70
2	Benzene, 1-methyl-2-(1-methylethyl)	134	C10H14	000527-84-4	64
3	Benzene, 1-methyl-4-(1-methylethyl)	134	C10H14	000099-87-6	64
4	Benzene, 1-methyl-2-(1-methylethyl)	134	C10H14	000527-84-4	64



Data File : C:\HPCHEM\1\DATA\122900\C18254.D Vial: 5
Acq On : 29 Dec 2000 17:50 Operator: TAG/VR
Sample : AC05540 25ml DF=1 Inst : VOA-C
Misc : 26563/C12140025 Multiplr: 1.00
MS Integration Params: LSCINT.P

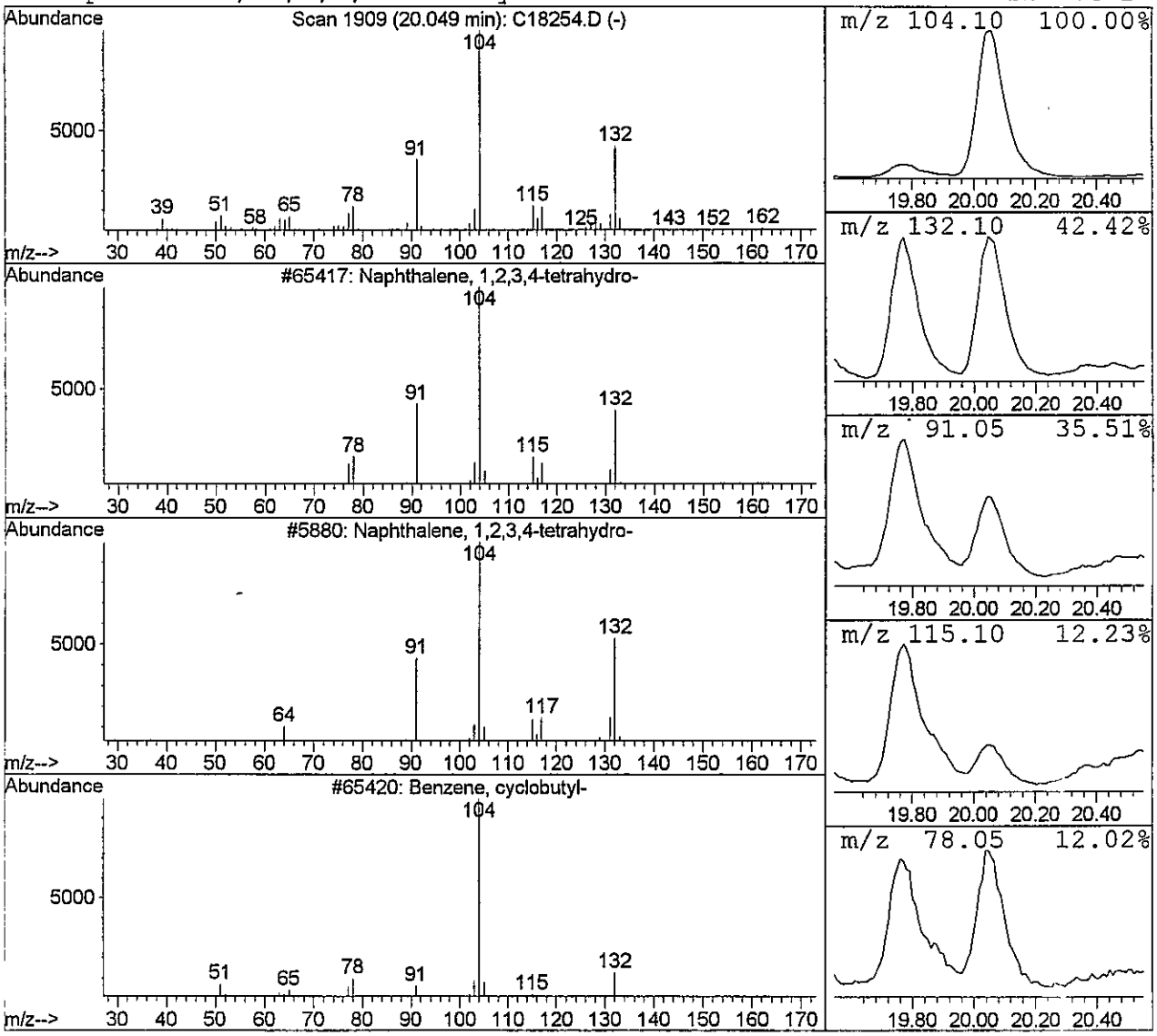
Quant Method : C:\HPCHEM\1\DATA\122900\12290025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Library : C:\DATABASE\NBS75K.L

****

Peak Number 18 Naphthalene, 1,2,3,4-tetrahydr Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
20.05	9.74 ug\L	1998540	1,4-Dichlorobenzene-d4	16.89

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 1,2,3,4-tetrahydro-	132	C10H12	000119-64-2	95
2	Naphthalene, 1,2,3,4-tetrahydro-	132	C10H12	000119-64-2	83
3	Benzene, cyclobutyl-	132	C10H12	004392-30-7	64
4	Naphthalene, 1,2,3,4-tetrahydro-	132	C10H12	000119-64-2	64



Data File : C:\HPCHEM\1\DATA\122900\C18254.D Vial: 5
Acq On : 29 Dec 2000 17:50 Operator: TAG/VR
Sample : AC05540 25ml DF=1 Inst : VOA-C
Misc : 26563/C12140025 Multiplr: 1.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\DATA\122900\12290025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Library : C:\DATABASE\NBS75K.L

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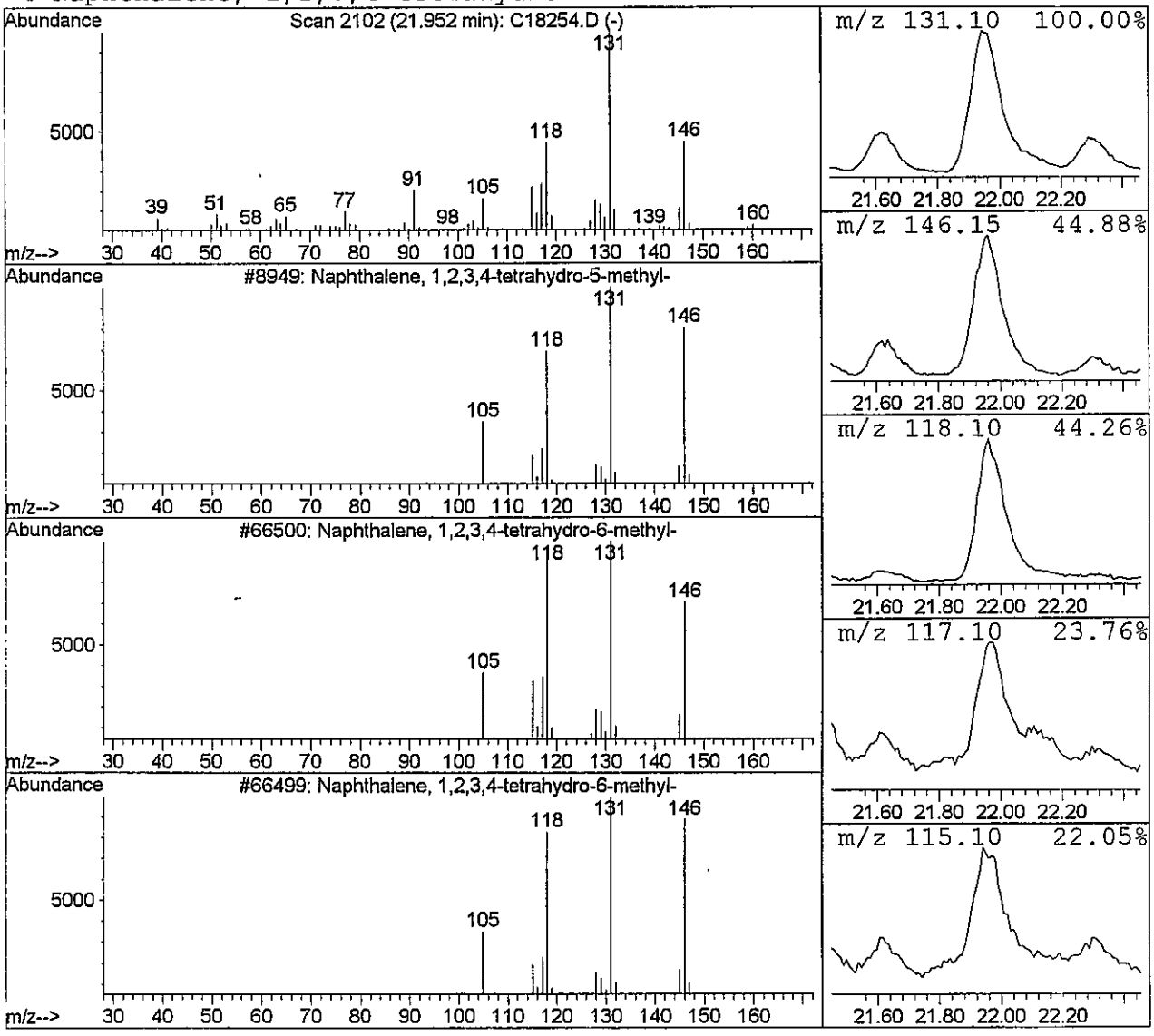
Peak Number 19 Naphthalene, 1,2,3,4-tetrahydr Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
21.95	4.33 ug\L	888480	1,4-Dichlorobenzene-d4	16.89

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 1,2,3,4-tetrahydro-5-m	146	C11H14	002809-64-5	76
2	Naphthalene, 1,2,3,4-tetrahydro-6-m	146	C11H14	001680-51-9	76
3	Naphthalene, 1,2,3,4-tetrahydro-6-m	146	C11H14	001680-51-9	70
4	Naphthalene, 1,2,3,4-tetrahydro-5-m	146	C11H14	002809-64-5	70



Data File : C:\HPCHEM\1\DATA\122900\C18254.D Vial: 5
Acq On : 29 Dec 2000 17:50 Operator: TAG/VR
Sample : AC05540 25ml DF=1 Inst : VOA-C
Misc : 26563/C12140025 Multiplr: 1.00
MS Integration Params: LSCINT.P

Quant Method : C:\HPCHEM\1\DATA\122900\12290025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Library : C:\DATABASE\NBS75K.L

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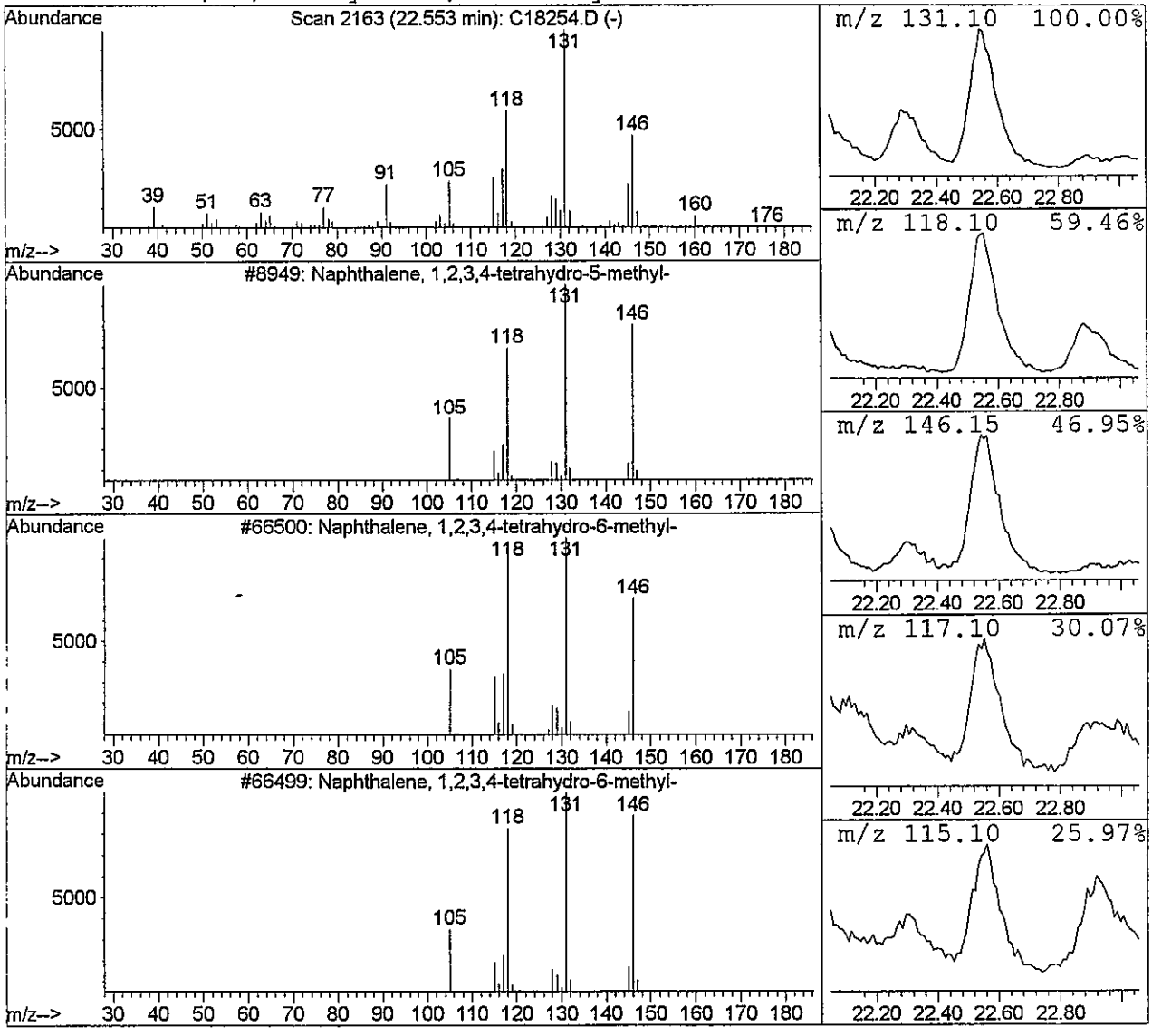
Peak Number 20 Naphthalene, 1,2,3,4-tetrahydr Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
22.55	3.35 ug\L	686771	1,4-Dichlorobenzene-d4	16.89

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 1,2,3,4-tetrahydro-5-m	146	C11H14	002809-64-5	91
2	Naphthalene, 1,2,3,4-tetrahydro-6-m	146	C11H14	001680-51-9	90
3	Naphthalene, 1,2,3,4-tetrahydro-6-m	146	C11H14	001680-51-9	81
4	1H-Indene, 2,3-dihydro-5,6-dimethyl	146	C11H14	001075-22-5	64



Tentatively Identified Compound (LSC) summary

Operator ID: TAG/VR Date Acquired: 29 Dec 2000 17:50
Data File: C:\HPCHEM\1\DATA\122900\C18254.D
Name: AC05540 25ml DF=1
Misc: 26563/C12140025
Method: C:\HPCHEM\1\DATA\122900\12290025.M (RTE Integrator)
Title: 8260 CALIBRATION FOR 25ML WATER
Library Searched: C:\DATABASE\NBS75K.L

TIC Top Hit name	RT	EstConc	Units	Area	IntStd	ISRT	ISArea	ISConc
Carbon dioxide	1.46	62.2	ug\L	8721260	ISTD01	6.45	1401220	10.0
Benzene, 1,2-difluor	7.72	7.8	ug\L	1099070	ISTD01	6.45	1401220	10.0
2,3,5-Trimethylfuran	11.56	2.9	ug\L	289450	ISTD02	12.77	995260	10.0
p-Xylene	13.23	70.2	ug\L	6986810	ISTD02	12.77	995260	10.0
Benzene, 1-ethyl-2-m	15.49	25.8	ug\L	5284210	ISTD03	16.89	2050980	10.0
Benzene, 1-ethyl-4-m	15.99	5.9	ug\L	1213890	ISTD03	16.89	2050980	10.0
Benzene, 1-ethyl-4-m	17.02	32.1	ug\L	6584130	ISTD03	16.89	2050980	10.0
Benzene, 1-methyl-2-	17.43	15.9	ug\L	3254450	ISTD03	16.89	2050980	10.0
Benzene, 2-ethyl-1,4	17.57	13.7	ug\L	2799770	ISTD03	16.89	2050980	10.0
Benzene, 1,2-diethyl	17.75	2.8	ug\L	582373	ISTD03	16.89	2050980	10.0
Benzene, 1-methyl-3-	17.88	11.9	ug\L	2439050	ISTD03	16.89	2050980	10.0
Benzene, 1-methyl-3-	18.09	15.3	ug\L	3146630	ISTD03	16.89	2050980	10.0
Benzene, 1-ethyl-2,4	18.24	12.9	ug\L	2635730	ISTD03	16.89	2050980	10.0
2,3-Dihydro-1-methyl	18.40	14.0	ug\L	2864630	ISTD03	16.89	2050980	10.0
Benzene, 1-methyl-4-	18.76	4.1	ug\L	841286	ISTD03	16.89	2050980	10.0
Benzene, 1,2,3,5-tet	19.03	13.3	ug\L	2736630	ISTD03	16.89	2050980	10.0
Benzene, 1-methyl-4-	19.77	31.6	ug\L	6477490	ISTD03	16.89	2050980	10.0
Naphthalene, 1,2,3,4	20.05	9.7	ug\L	1998540	ISTD03	16.89	2050980	10.0
Naphthalene, 1,2,3,4	21.95	4.3	ug\L	888480	ISTD03	16.89	2050980	10.0
Naphthalene, 1,2,3,4	22.55	3.3	ug\L	686771	ISTD03	16.89	2050980	10.0

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\122900\C18266.D Vial: 2
Acq On : 30 Dec 2000 00:22 Operator: TAG/VR
Sample : AC05540 5ml DF=5 Inst : VOA-C
Misc : 26563/C12140025 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 30 0:49 2000 Quant Results File: 12290025.RES

Quant Method : c:\hpchem\1\data\122900\12290025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Fri Dec 29 10:24:33 2000
Response via : Initial Calibration
DataAcq Meth : 12290025

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	6.46	168	407974	10.00	ug\L	-0.01
45) Chlorobenzene-d5	12.77	117	280200	10.00	ug\L	0.00
61) 1,4-Dichlorobenzene-d4	16.88	152	142543	10.00	ug\L	0.00
System Monitoring Compounds						
32) 1,2-Dichloroethane-d4	6.96	65	68513	8.46	ug\L	0.02
Spiked Amount 10.000	Range 80 - 120		Recovery = 84.60%			
46) Toluene-d8	10.27	98	389595	9.39	ug\L	0.00
Spiked Amount 10.000	Range 87 - 104		Recovery = 93.90%			
65) Bromofluorobenzene	14.87	95	179118	9.07	ug\L	0.00
Spiked Amount 10.000	Range 84 - 110		Recovery = 90.70%			
Target Compounds						Qvalue
16) Methylene Chloride	3.52	86	1334	-0.98	ug\L #	1
34) Isobutyl alcohol	7.14	43	374	-20.83	ug\L #	1
41) 2-Nitropropane	9.19	43	219	2.03	ug\L #	100
49) Ethylmethacrylate	10.74	69	61	1.07	ug\L #	63
58) Ethylbenzene	13.03	91	216151	3.98	ug\L	99
59) total-Xylene	14.58	106	17297m	2.16	ug\L	
63) Isopropylbenzene	14.58	105	111239	1.61	ug\L	99
64) 1,4-dichloro-2-Butene	15.49	75	3084	0.70	ug\L #	100
68) 1,2,3-Trichloropropane	15.49	75	3084	0.70	ug\L #	100
69) n-Propylbenzene	15.30	91	132807	1.79	ug\L	96
70) 2-Chlorotoluene	15.49	91	22789	0.56	ug\L #	31
71) 4-Chlorotoluene	15.64	91	27189	0.50	ug\L #	47
72) 1,3,5-Trimethylbenzene	15.63	105	247221	4.66	ug\L	88
74) tert-Butylbenzene	16.28	119	99075	1.54	ug\L #	56
75) 1,2,4-Trimethylbenzene	16.28	105	866547	17.41	ug\L #	85 87
76) sec-Butylbenzene	16.57	105	96159	1.21	ug\L	93
78) Isopropyltoluene	16.83	119	122809	1.97	ug\L #	81
81) n-Butylbenzene	17.57	91	68079	1.12	ug\L #	1
82) 1,2-Dibromo-3-chloropropan	19.00	75	849	1.84	ug\L #	16
85) Naphthalene	20.87	128	59254	6.71	ug\L	100

VR
01/02/01

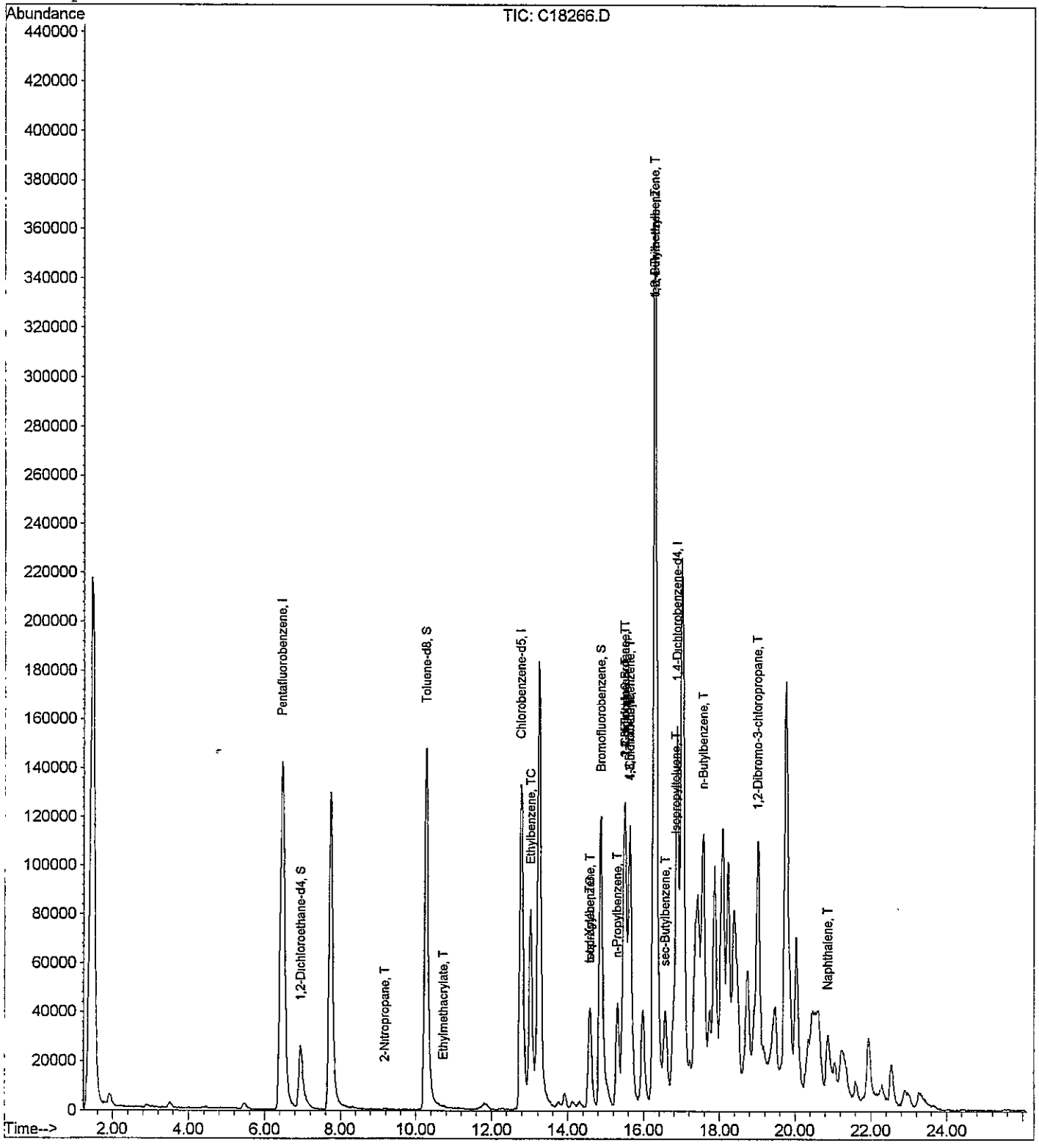
(#) = qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\122900\C18266.D
Acq On : 30 Dec 2000 00:22
Sample : AC05540 5ml DF=5
Misc : 26563/C12140025
MS Integration Params: rteint.p
Quant Time: Dec 30 0:49 2000

Vial: 2
Operator: TAG/VR
Inst : VOA-C
Multiplr: 1.00

Quant Results File: 12290025.RES

Method : c:\hpchem\1\data\122900\12290025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Fri Dec 29 08:48:11 2000
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\010201\01020116.D Vial: 16
Acq On : 2 Jan 2001 23:32 Operator: MT
Sample : AC05541 Inst : DRO-B
Misc : 26563 1000mL Multiplr: 1.00
IntFile : events.e
Quant Time: Jan 3 11:10 2001 Quant Results File: PRO1208.RES

Quant Method : C:\HPCHEM\2\METHODS\PRO1208.M (Chemstation Integrator)
Title : FLORIDA PRO BY GC; INST. #2
Last Update : Tue Jan 02 11:40:23 2001
Response via : Initial Calibration
DataAcq Meth : PRO1208.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) SC o-TERPHENYL	19.12	1430991	30.992 ug/mlm
Spiked Amount 50.000	Recovery =		61.98% x MT
3) SC C(39)	34.40	720095	16.392 ug/mlm
Spiked Amount 300.000	Recovery =		5.46% x MT
Target Compounds			
1) HM Florida PRO	3.70	23717632	417.010 ug/ml /1000 =

0.425Bppm
MT

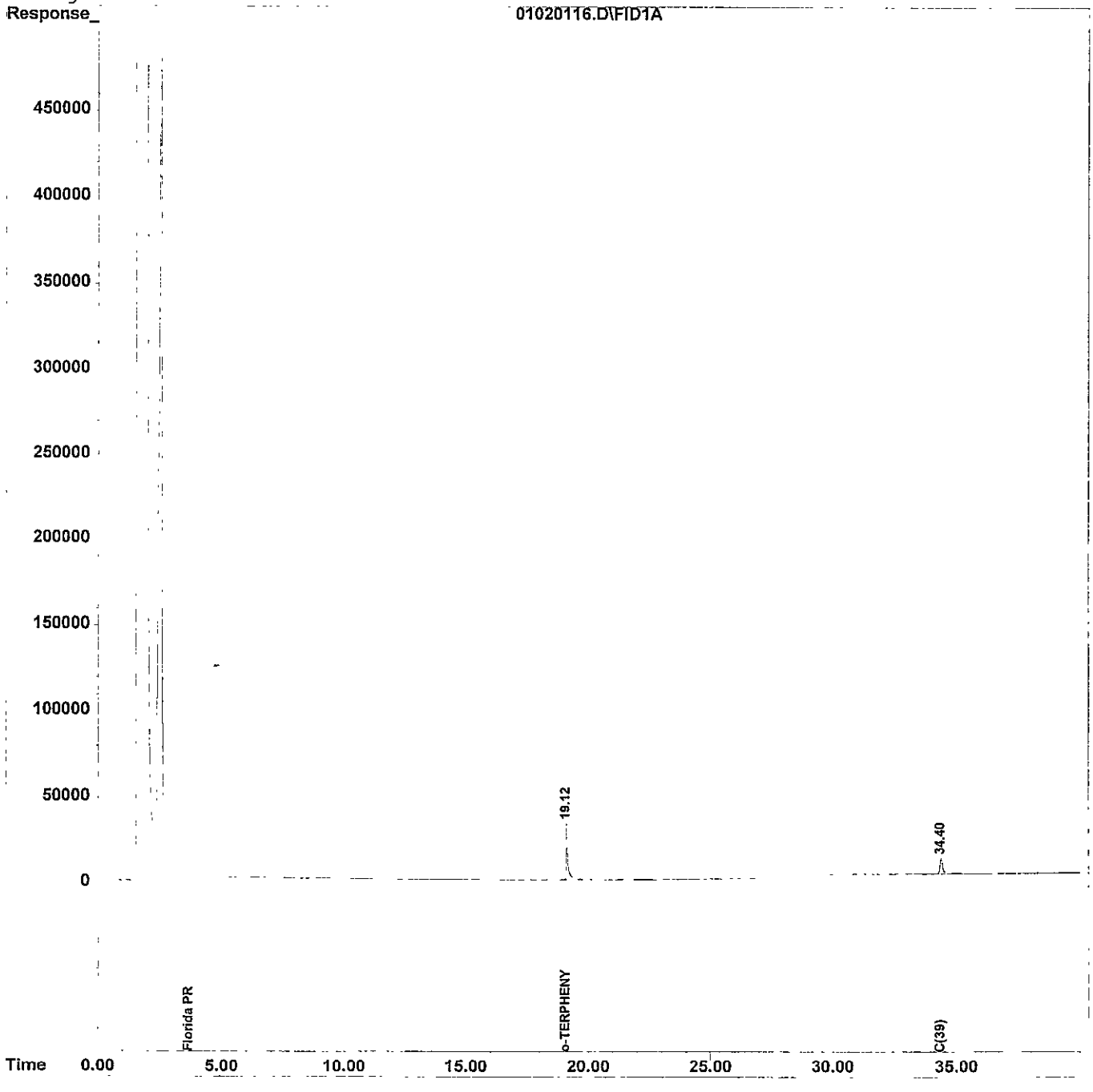
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\2\DATA\010201\01020116.D Vial: 16
Acq On : 2 Jan 2001 23:32 Operator: MT
Sample : AC05541 Inst : DRO-B
Misc : 26563 1000mL Multiplr: 1.00
IntFile : events.e
Quant Time: Jan 3 11:10 2001 Quant Results File: PRO1208.RES

Quant Method : C:\HPCHEM\2\METHODS\PRO1208.M (Chemstation Integrator)
Title : FLORIDA PRO BY GC; INST. #2
Last Update : Tue Jan 02 11:40:23 2001
Response via : Multiple Level Calibration
DataAcq Meth : PRO1208.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\122900\C18259.D Vial: 10
Acq On : 29 Dec 2000 20:22 Operator: TAG/VR
Sample : AC05541 25ml DF=1 Inst : VOA-C
Misc : 26563/C12140025 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 29 20:48 2000 Quant Results File: 12290025.RES

Quant Method : c:\hpchem\1\data\122900\12290025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Fri Dec 29 10:24:33 2000
Response via : Initial Calibration
DataAcq Meth : 12290025

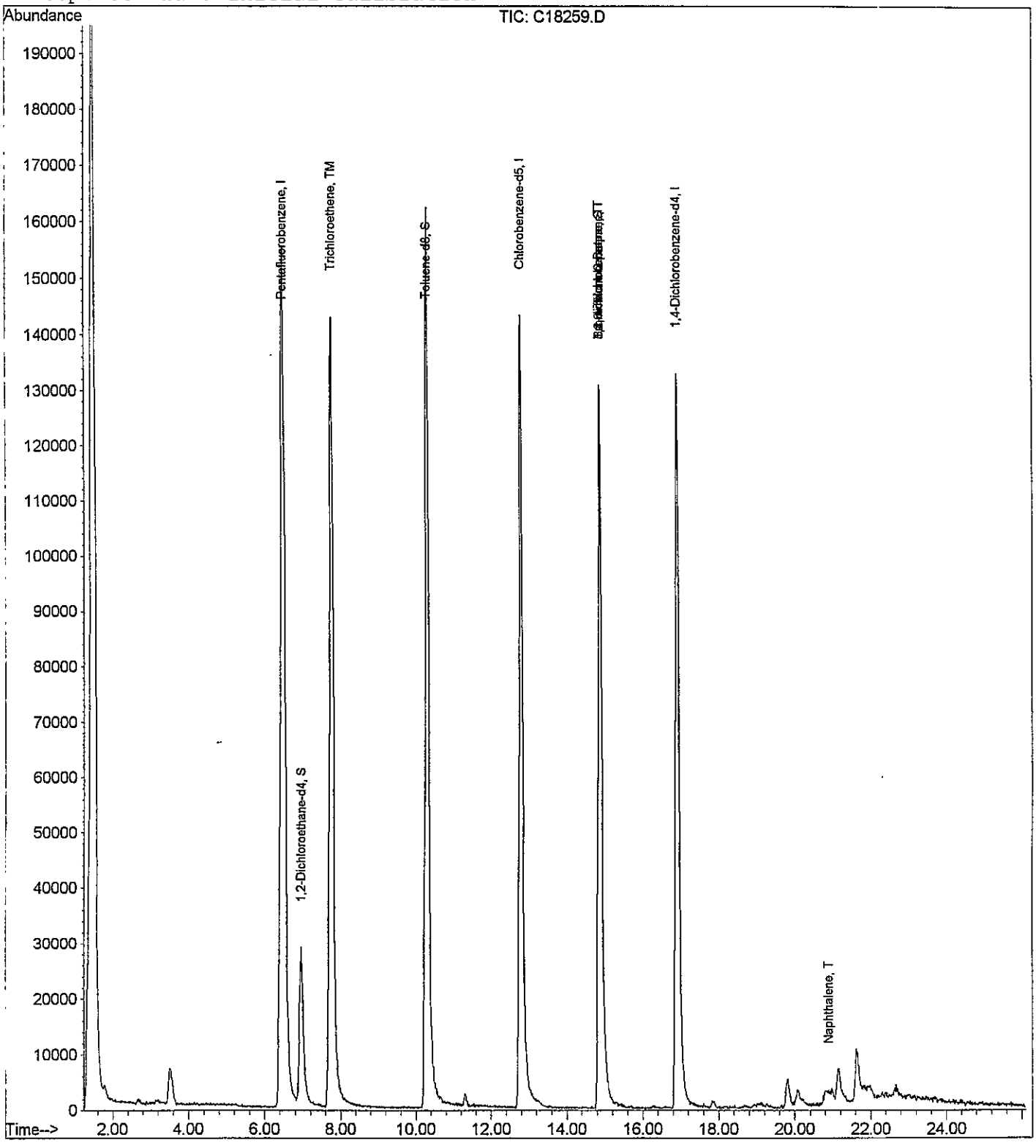
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Pentafluorobenzene	6.48	168	451724	10.00 ug\L	0.00
45) Chlorobenzene-d5	12.79	117	309839	10.00 ug\L	0.01
61) 1,4-Dichlorobenzene-d4	16.91	152	149570	10.00 ug\L	0.02
System Monitoring Compounds					
32) 1,2-Dichloroethane-d4	6.96	65	79630	8.88 ug\L	0.01
Spiked Amount 10.000	Range 80 - 120		Recovery = 88.80%		
46) Toluene-d8	10.28	98	427808	9.33 ug\L	0.00
Spiked Amount 10.000	Range 87 - 104		Recovery = 93.30%		
65) Bromofluorobenzene	14.87	95	195068	9.41 ug\L	0.00
Spiked Amount 10.000	Range 84 - 110		Recovery = 94.10%		
Target Compounds					Qvalue
16) Methylene Chloride	3.50	86	3198	~~0.73 ug\L~~ #	1
36) Trichloroethene	7.75	95	12100	~~0.57 ug\L~~ #	9
64) 1,4-dichloro-2-Butene	14.87	75	98442	~~21.24 ug\L~~ #	100
68) 1,2,3-Trichloropropane	14.87	75	98442	~~21.23 ug\L~~ #	100
85) Naphthalene	20.90	128	580	1.01 ug\L	100

VR
01/02/01

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

Data File : C:\HPCHEM\1\DATA\122900\C18259.D Vial: 10
Acq On : 29 Dec 2000 20:22 Operator: TAG/VR
Sample : AC05541 25ml DF=1 Inst : VOA-C
Misc : 26563/C12140025 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 29 20:48 2000 Quant Results File: 12290025.RES

Method : c:\hpchem\1\data\122900\12290025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Fri Dec 29 08:48:11 2000
Response via : Initial Calibration



1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

029-DUP-Q4

Lab Name: Accura Analytical Lab. Contract: _____

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

Matrix: (soil/water) WATER Lab Sample ID: AC05541

Sample wt/vol: 25.0 (g/ml) ML Lab File ID: C18259.D

Level: (low/med) LOW Date Received: 12/21/00

% Moisture: not dec. _____ Date Analyzed: 12/29/00

GC Column: DB-624 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 NAME	RT	EST. CONC.	Q

LSC Area Percent Report

Data File : C:\HPCHEM\1\DATA\122900\C18259.D Vial: 10
Acq On : 29 Dec 2000 20:22 Operator: TAG/VR
Sample : AC05541 25ml DF=1 Inst : VOA-C
Misc : 26563/C12140025 Multiplr: 1.00
MS Integration Params: LSCINT.P

Method : c:\hpchem\1\data\122900\12290025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Smoothing : OFF Filtering: 5
Sampling : 1 Min Area: 1 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Signal : TIC

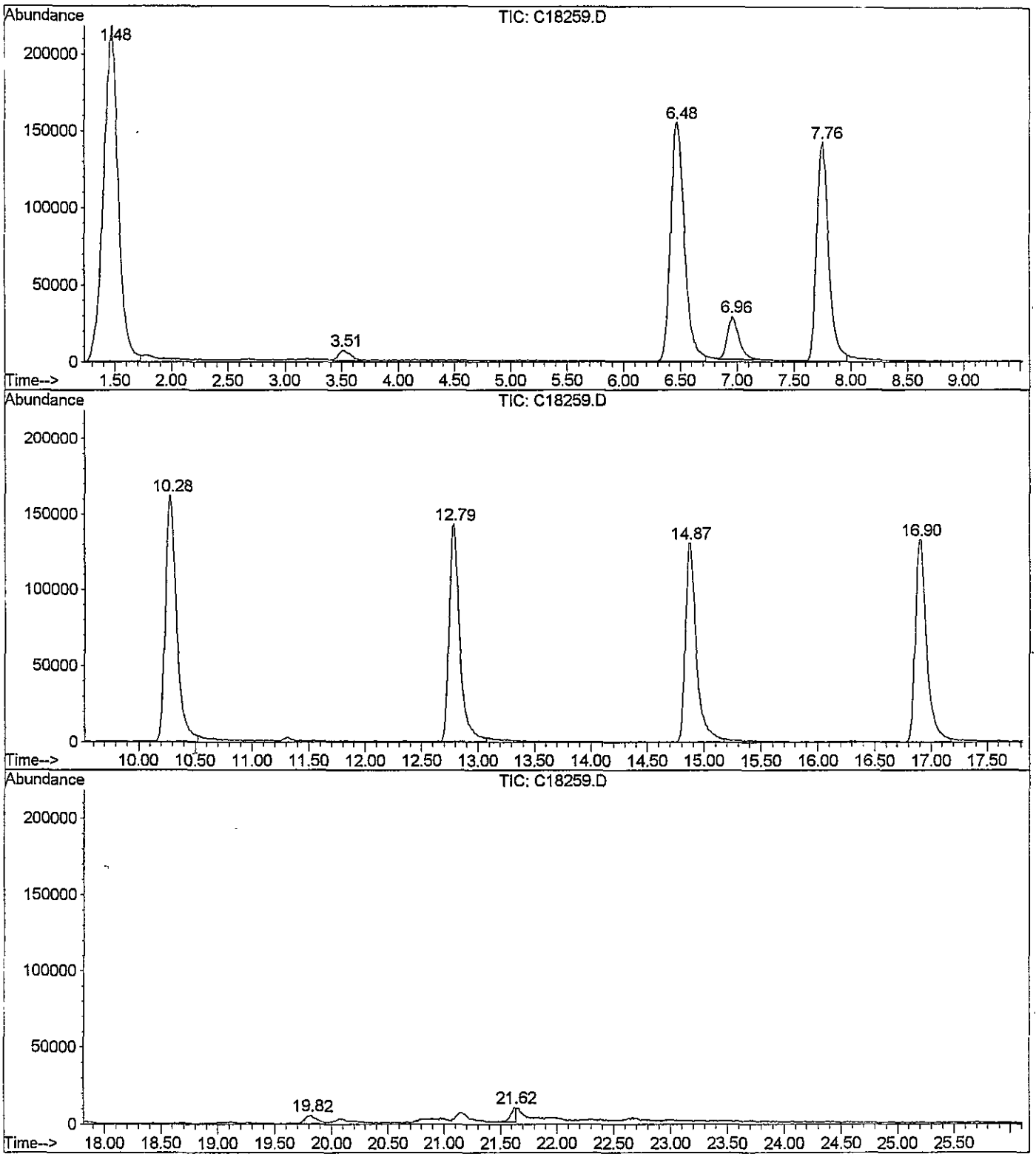
peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	peak area	peak % max.	% of total
1	1.477	3	26	51	rBV	218107	1963983	100.00%	23.275%
2	3.509	223	232	250	rVB5	6565	48343	2.46%	0.573%
3	6.477	515	533	558	rBV	155220	1323220	67.37%	15.682%
4	6.960	569	582	602	rBV3	27652	193739	9.86%	2.296%
5	7.759	647	663	684	rBV2	142524	1037129	52.81%	12.291%
6	10.284	905	919	943	rBV	161997	1103233	56.17%	13.075%
7	12.789	1160	1173	1202	rBV	142838	927698	47.24%	10.994%
8	14.870	1373	1384	1415	rBV2	130520	868702	44.23%	10.295%
9	16.901	1577	1590	1618	rBV2	132484	909002	46.28%	10.773%
10	19.820	1875	1886	1899	rBV7	5228	34688	1.77%	0.411%
11	21.625	2059	2069	2070	rBV3	9539	28264	1.44%	0.335%

Sum of corrected areas: 8438001

C18259.D 12290025.M Thu Jan 04 10:26:27 2001 RPT1

LSC Report - Integrated Chromatogram

File : C:\HPCHEM\1\DATA\122900\C18259.D
Operator : TAG/VR
Acquired : 29 Dec 2000 20:22 using AcqMethod 12290025
Instrument : VOA-C
Sample Name: AC05541 25ml DF=1
Misc Info : 26563/C12140025
Vial Number: 10
Quant File :12290025.RES (RTE Integrator)



C18259.D 12290025.M Thu Jan 04 10:26:28 2001 RPT1

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\122900\C18259.D Vial: 10
Acq On : 29 Dec 2000 20:22 Operator: TAG/VR
Sample : AC05541 25ml DF=1 Inst : VOA-C
Misc : 26563/C12140025 Multiplr: 1.00
MS Integration Params: LSCINT.P

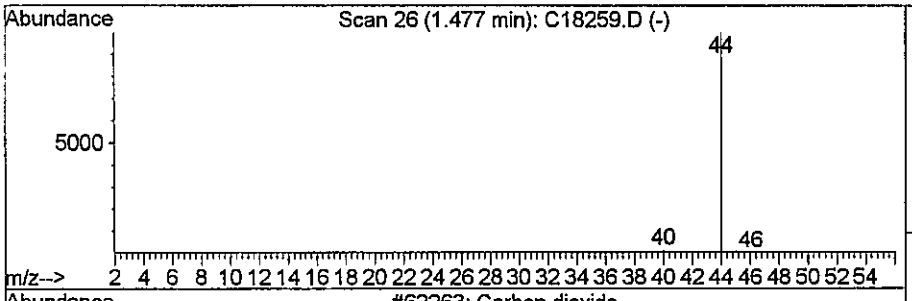
Quant Method : c:\hpchem\1\data\122900\12290025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Library : C:\DATABASE\NBS75K.L

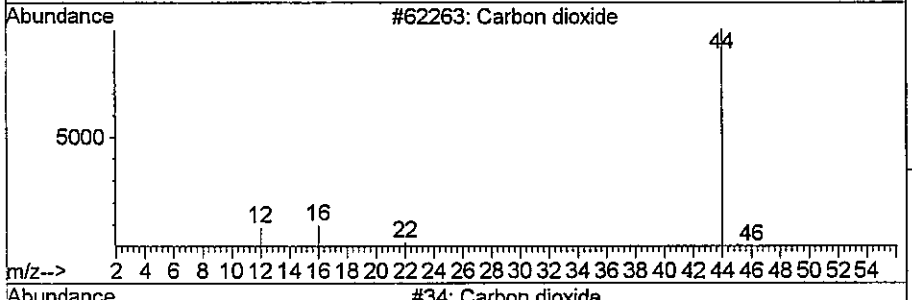
****

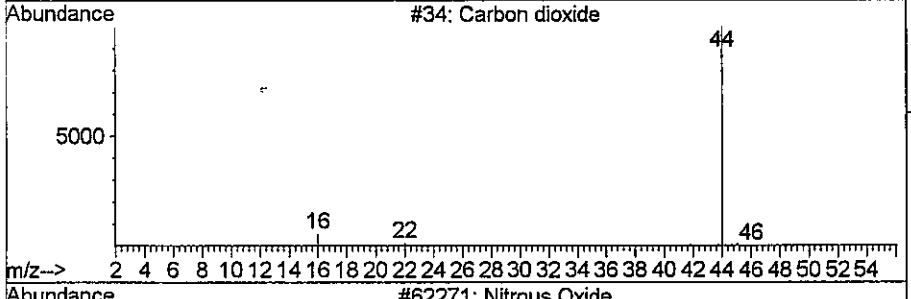
Peak Number 1 Carbon dioxide Concentration Rank 1

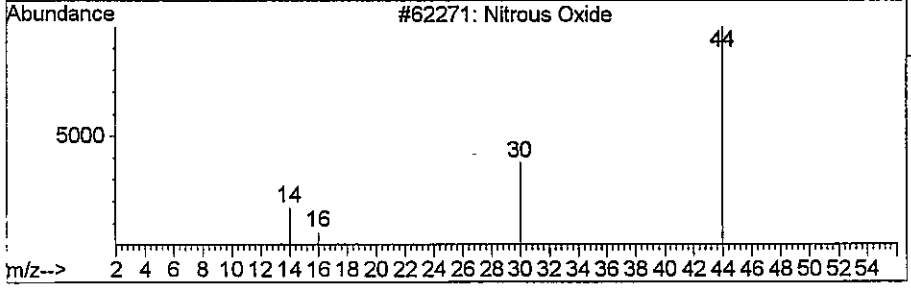
R.T.	EstConc	Area	Relative to ISTD	R.T.
1.48	14.84 ug\L	1963980	Pentafluorobenzene	6.48

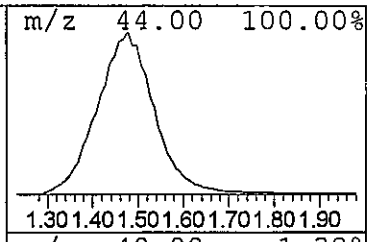
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Carbon dioxide	44	CO2	000124-38-9	4
2	Carbon dioxide	44	CO2	000124-38-9	4
3	Nitrous Oxide	44	N2O	010024-97-2	3
4	Nitrous Oxide	44	N2O	010024-97-2	3

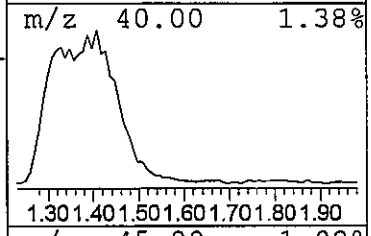


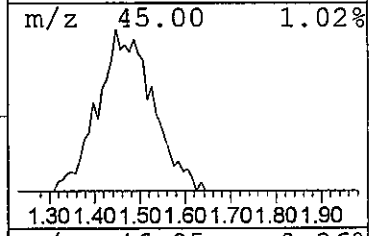


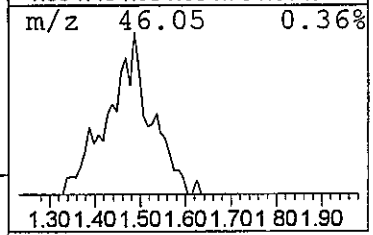












Data File : C:\HPCHEM\1\DATA\122900\C18259.D Vial: 10
Acq On : 29 Dec 2000 20:22 Operator: TAG/VR
Sample : AC05541 25ml DF=1 Inst : VOA-C
Misc : 26563/C12140025 Multiplr: 1.00
MS Integration Params: LSCINT.P

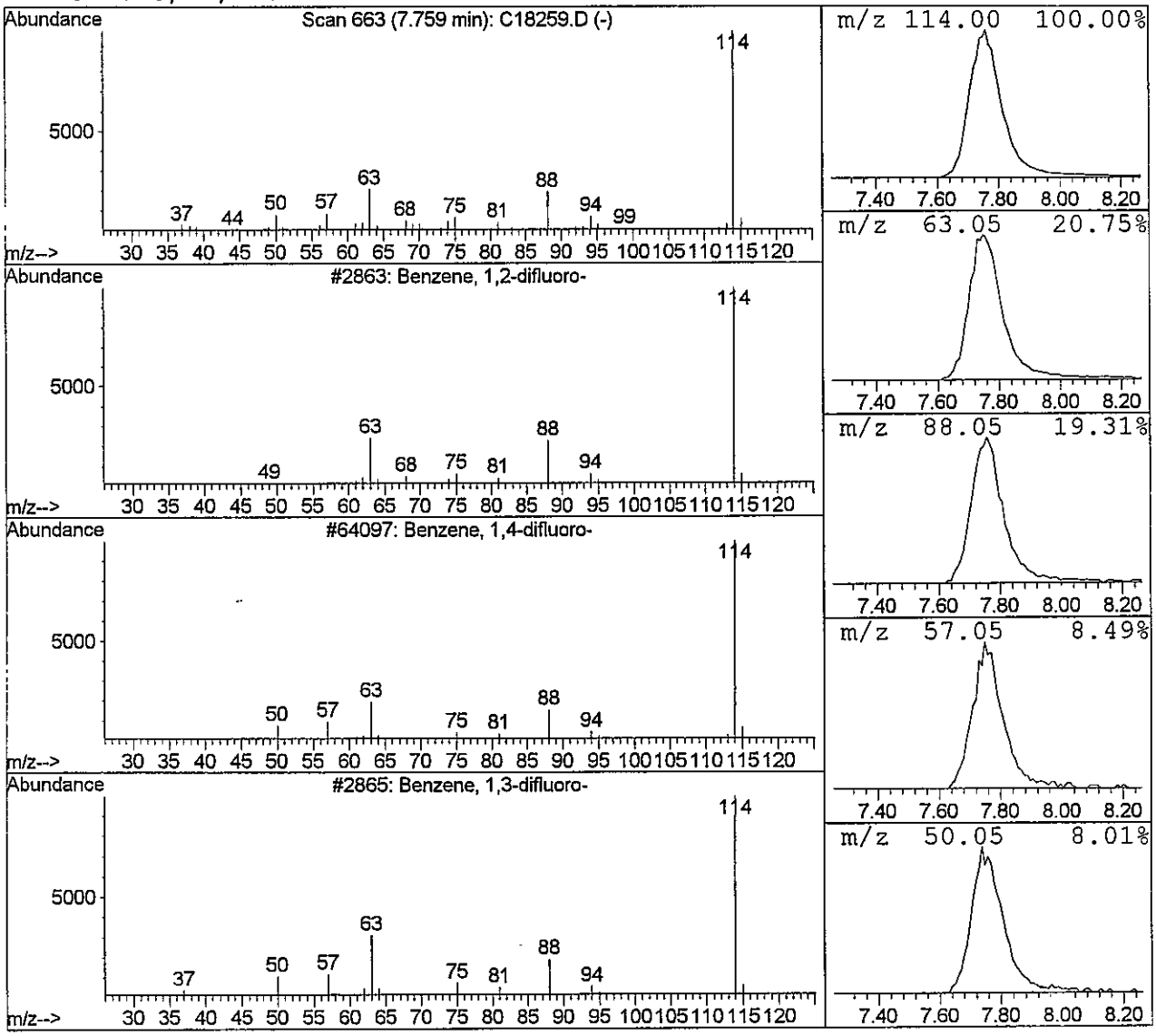
Quant Method : c:\hpchem\1\data\122900\12290025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Library : C:\DATABASE\NBS75K.L

****

Peak Number 2 Benzene, 1,2-difluoro- Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.76	7.84 ug\L	1037130	Pentafluorobenzene	6.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1,2-difluoro-	114	C6H4F2	000367-11-3	95
2	Benzene, 1,4-difluoro-	114	C6H4F2	000540-36-3	93
3	Benzene, 1,3-difluoro-	114	C6H4F2	000372-18-9	91
4	Benzene, 1,2-difluoro-	114	C6H4F2	000367-11-3	91



Tentatively Identified Compound (LSC) summary

Operator ID: TAG/VR Date Acquired: 29 Dec 2000 20:22
Data File: C:\HPCHEM\1\DATA\122900\C18259.D
Name: AC05541 25ml DF=1
Misc: 26563/C12140025
Method: c:\hpchem\1\data\122900\12290025.M (RTE Integrator)
Title: 8260 CALIBRATION FOR 25ML WATER
Library Searched: C:\DATABASE\NBS75K.L

TIC Top Hit name	RT	EstConc	Units	Area	IntStd	ISRT	ISArea	ISConc
Carbon dioxide	1.48	14.8	ug\L	1963980	ISTD01	6.48	1323220	10.0
Benzene, 1,2-difluor	7.76	7.8	ug\L	1037130	ISTD01	6.48	1323220	10.0

C18259.D 12290025.M Thu Jan 04 10:26:30 2001 RPT1

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\010201\01020117.D Vial: 17
Acq On : 3 Jan 2001 00:21 Operator: MT
Sample : AC05542 Inst : DRO-B
Misc : 26563 1000mL Multiplr: 1.00
IntFile : events.e
Quant Time: Jan 3 11:10 2001 Quant Results File: PRO1208.RES

Quant Method : C:\HPCHEM\2\METHODS\PRO1208.M (Chemstation Integrator)
Title : FLORIDA PRO BY GC; INST. #2
Last Update : Tue Jan 02 11:40:23 2001
Response via : Initial Calibration
DataAcq Meth : PRO1208.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) SC o-TERPHENYL	19.12	2020279	43.755 ug/mlm
Spiked Amount 50.000	Recovery =		87.51% ✓MT
3) SC C(39)	34.41	692104	15.754 ug/mlm
Spiked Amount 300.000	Recovery =		5.25% x MT
Target Compounds			
1) HM Florida PRO	3.70	21735849	382.166 ug/ml /1000 = 0.385B ppm MT

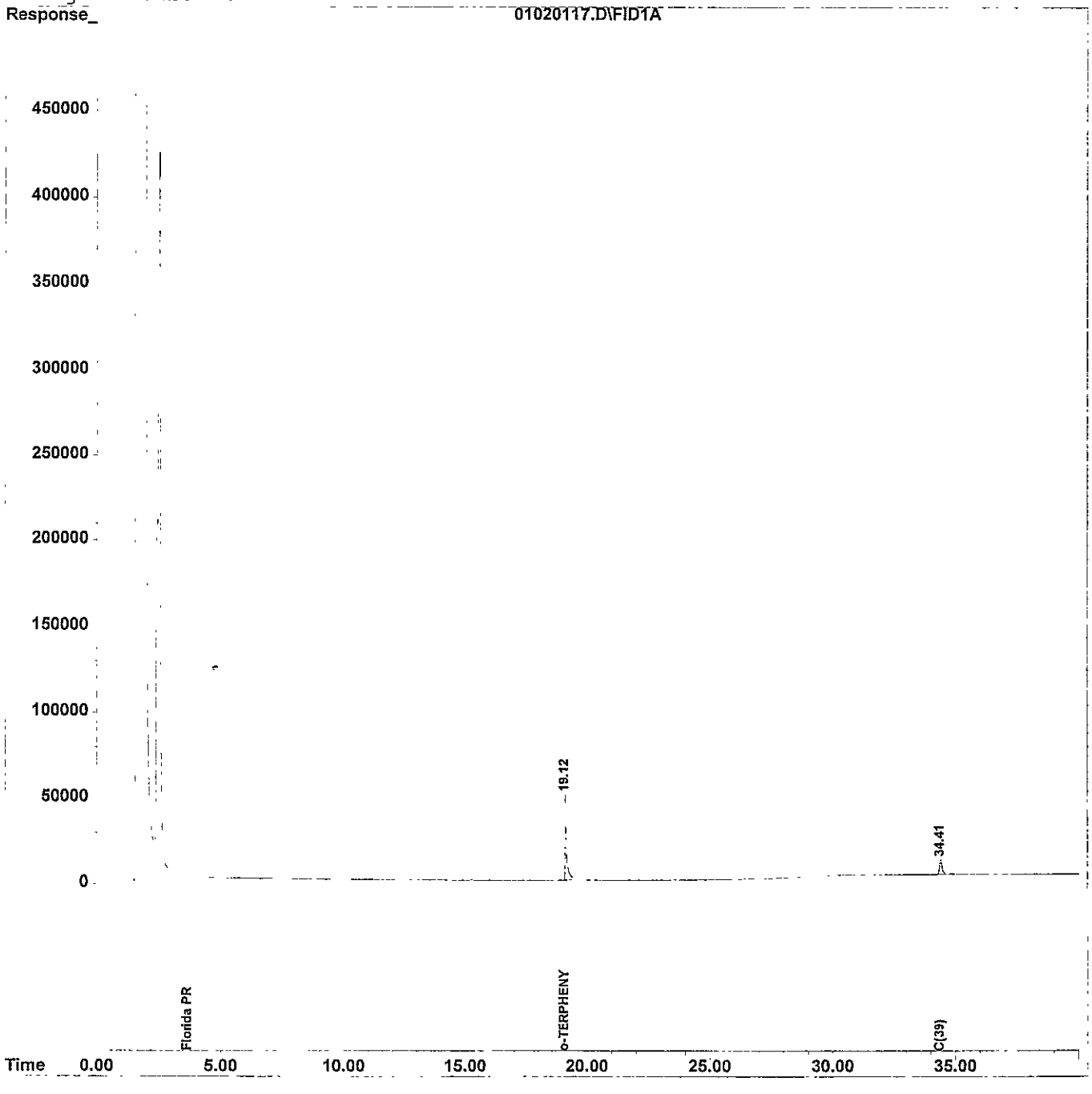
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\2\DATA\010201\01020117.D Vial: 17
Acq On : 3 Jan 2001 00:21 Operator: MT
Sample : AC05542 Inst : DRO-B
Misc : 26563 1000mL Multiplr: 1.00
IntFile : events.e
Quant Time: Jan 3 11:10 2001 Quant Results File: PRO1208.RES

Quant Method : C:\HPCHEM\2\METHODS\PRO1208.M (Chemstation Integrator)
Title : FLORIDA PRO BY GC; INST. #2
Last Update : Tue Jan 02 11:40:23 2001
Response via : Multiple Level Calibration
DataAcq Meth : PRO1208.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\122900\C18260.D Vial: 11
Acq On : 29 Dec 2000 20:52 Operator: TAG/VR
Sample : AC05542 25ml DF=1 Inst : VOA-C
Misc : 26563/C12140025 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 29 21:18 2000 Quant Results File: 12290025.RES

Quant Method : c:\hpchem\1\data\122900\12290025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Fri Dec 29 10:24:33 2000
Response via : Initial Calibration
DataAcq Meth : 12290025

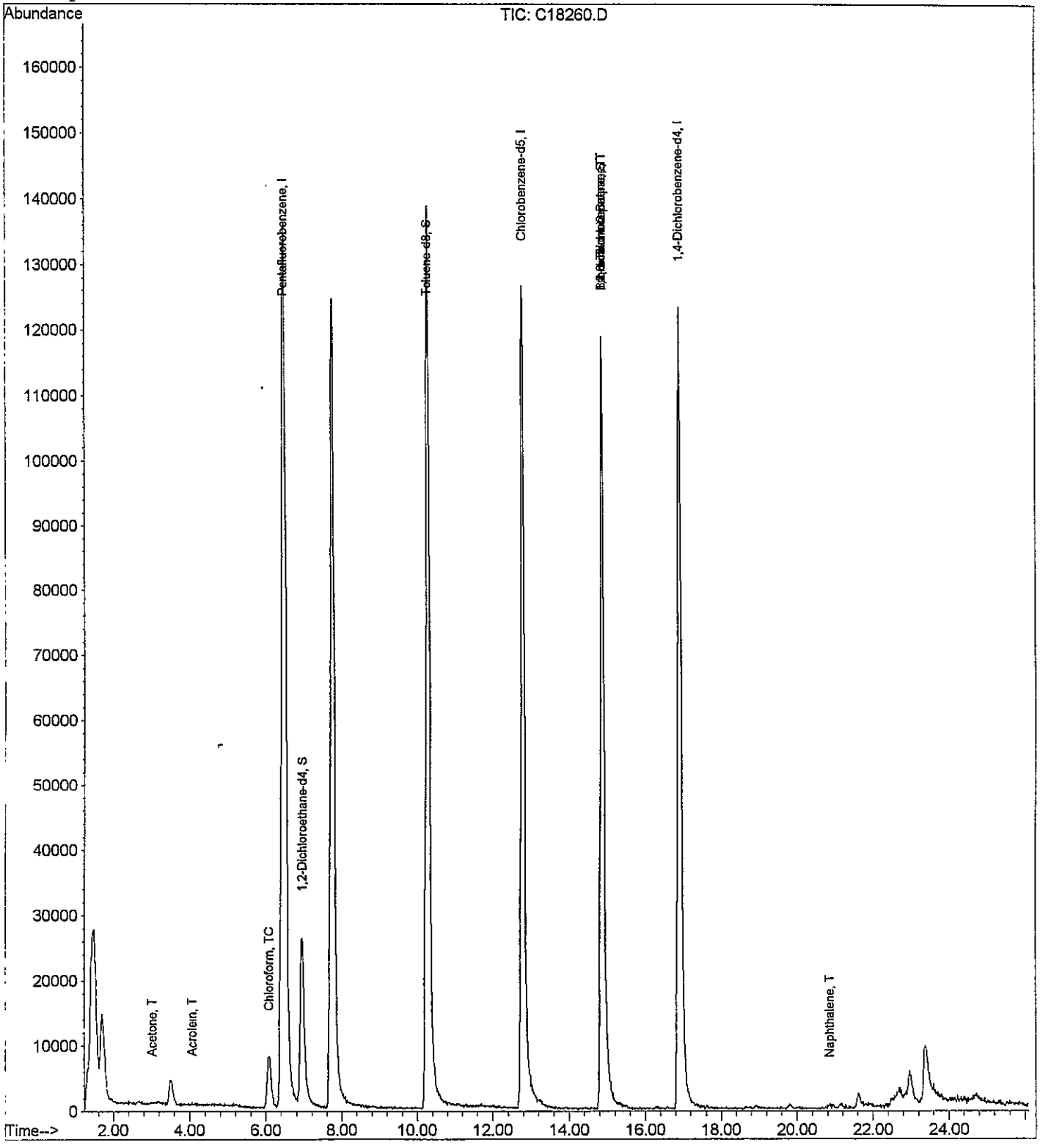
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Pentafluorobenzene	6.47	168	392304	10.00 ug\L	0.00
45) Chlorobenzene-d5	12.78	117	272521	10.00 ug\L	0.00
61) 1,4-Dichlorobenzene-d4	16.90	152	140405	10.00 ug\L	0.02
System Monitoring Compounds					
32) 1,2-Dichloroethane-d4	6.96	65	74358	9.55 ug\L	0.02
Spiked Amount 10.000	Range 80 - 120		Recovery = 95.50%		
46) Toluene-d8	10.27	98	369342	9.15 ug\L	0.00
Spiked Amount 10.000	Range 87 - 104		Recovery = 91.50%		
65) Bromofluorobenzene	14.87	95	181799	9.34 ug\L	0.00
Spiked Amount 10.000	Range 84 - 110		Recovery = 93.40%		
Target Compounds					Qvalue
8) Acrolein	4.07	56	120	~~0.54 ug\L #~~	1
11) Acetone	3.04	58	95	~~2.61 ug\L #~~	1
27) Chloroform	6.09	83	26592	1.07 ug\L	99
64) 1,4-dichloro-2-Butene	14.87	75	91082	~~20.94 ug\L #~~	100
68) 1,2,3-Trichloropropane	14.87	75	91082	~~20.93 ug\L~~ #	100
85) Naphthalene	20.89	128	682	1.02 ug\L	100

VR
01/02/01

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

Data File : C:\HPCHEM\1\DATA\122900\C18260.D Vial: 11
Acq On : 29 Dec 2000 20:52 Operator: TAG/VR
Sample : AC05542 25ml DF=1 Inst : VOA-C
Misc : 26563/C12140025 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 29 21:18 2000 Quant Results File: 12290025.RES

Method : c:\hpchem\1\data\122900\12290025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Fri Dec 29 08:48:11 2000
Response via : Initial Calibration



1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

029-EQB-Q4

Lab Name: Accura Analytical Lab. Contract: _____

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

Matrix: (soil/water) WATER Lab Sample ID: AC05542

Sample wt/vol: 25.0 (g/ml) ML Lab File ID: C18260.D

Level: (low/med) LOW Date Received: 12/21/00

% Moisture: not dec. _____ Date Analyzed: 12/29/00

GC Column: DB-624 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 NAME	RT	EST. CONC.	Q

LSC Area Percent Report

Data File : C:\HPCHEM\1\DATA\122900\C18260.D Vial: 11
Acq On : 29 Dec 2000 20:52 Operator: TAG/VR
Sample : AC05542 25ml DF=1 Inst : VOA-C
Misc : 26563/C12140025 Multiplr: 1.00
MS Integration Params: LSCINT.P

Method : c:\hpchem\1\data\122900\12290025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Smoothing : OFF Filtering: 5
Sampling : 1 Min Area: 1 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Signal : TIC

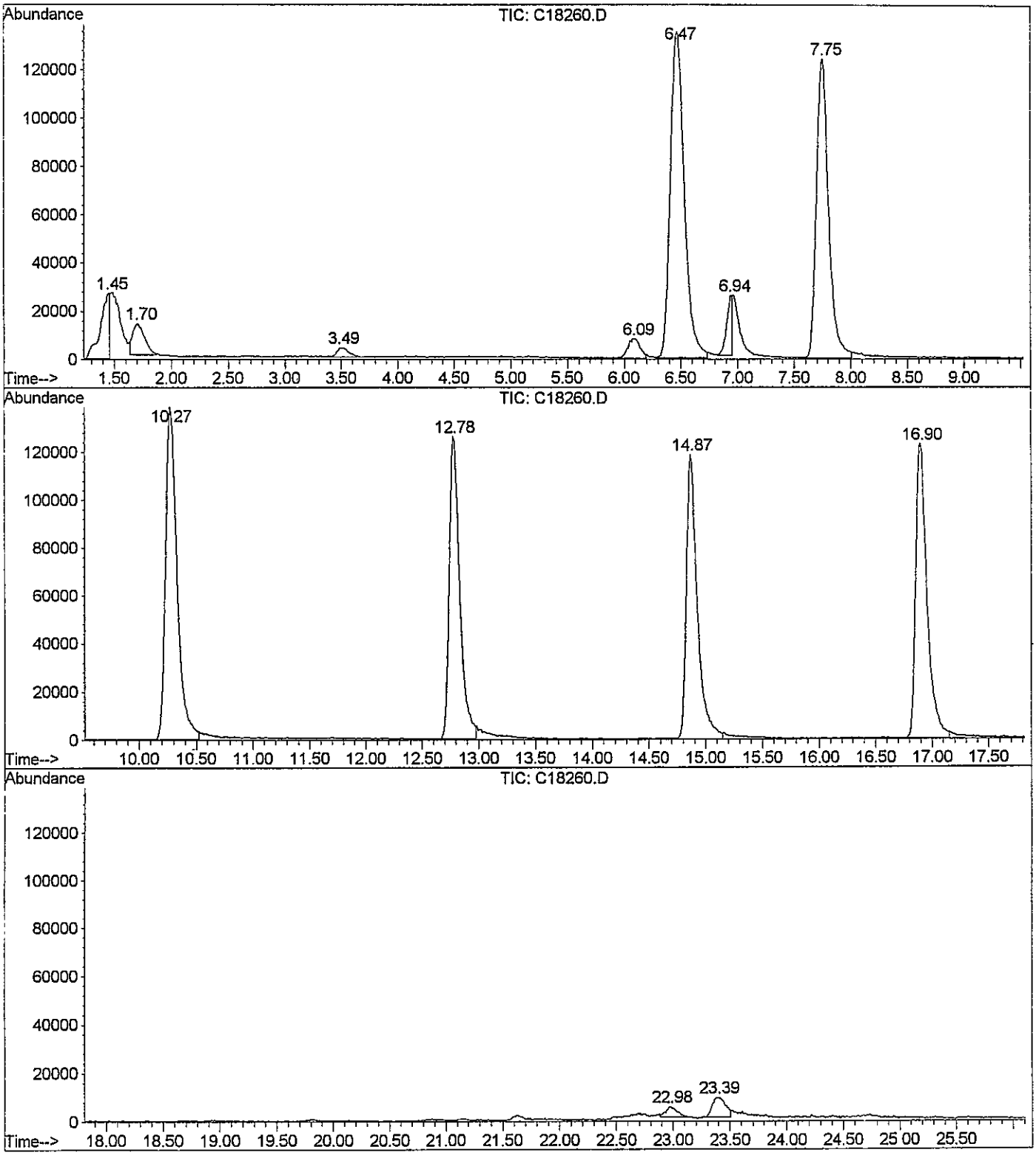
peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	peak area	peak % max.	% of total
1	1.448	3	23	24	rBV	27006	151284	13.12%	2.532%
2	1.704	42	49	66	rVB2	12866	93766	8.13%	1.569%
3	3.489	222	230	245	rBV7	3761	26338	2.28%	0.441%
4	6.093	477	494	504	rBV2	7936	59677	5.18%	0.999%
5	6.467	512	532	559	rBV2	135319	1152678	100.00%	19.288%
6	6.941	569	580	581	rBV	24757	80256	6.96%	1.343%
7	7.749	646	662	688	rBV	124184	920155	79.83%	15.397%
8	10.274	903	918	943	rBV	138458	950549	82.46%	15.906%
9	12.779	1160	1172	1192	rBV	126108	819365	71.08%	13.711%
10	14.870	1370	1384	1412	rBV	118548	785430	68.14%	13.143%
11	16.901	1576	1590	1615	rBV2	123099	840372	72.91%	14.062%
12	22.976	2197	2206	2219	rVB8	4407	29272	2.54%	0.490%
13	23.390	2238	2248	2260	rBV7	8204	66896	5.80%	1.119%

Sum of corrected areas: 5976038

C18260.D 12290025.M Thu Jan 04 10:31:02 2001 RPT1

LSC Report - Integrated Chromatogram

File : C:\HPCHEM\1\DATA\122900\C18260.D
Operator : TAG/VR
Acquired : 29 Dec 2000 20:52 using AcqMethod 12290025
Instrument : VOA-C
Sample Name: AC05542 25ml DF=1
Misc Info : 26563/C12140025
Vial Number: 11
Quant File :12290025.RES (RTE Integrator)



C18260.D 12290025.M Thu Jan 04 10:31:03 2001 RPT1

Data File : C:\HPCHEM\1\DATA\122900\C18260.D Vial: 11
Acq On : 29 Dec 2000 20:52 Operator: TAG/VR
Sample : AC05542 25ml DF=1 Inst : VOA-C
Misc : 26563/C12140025 Multiplr: 1.00
MS Integration Params: LSCINT.P

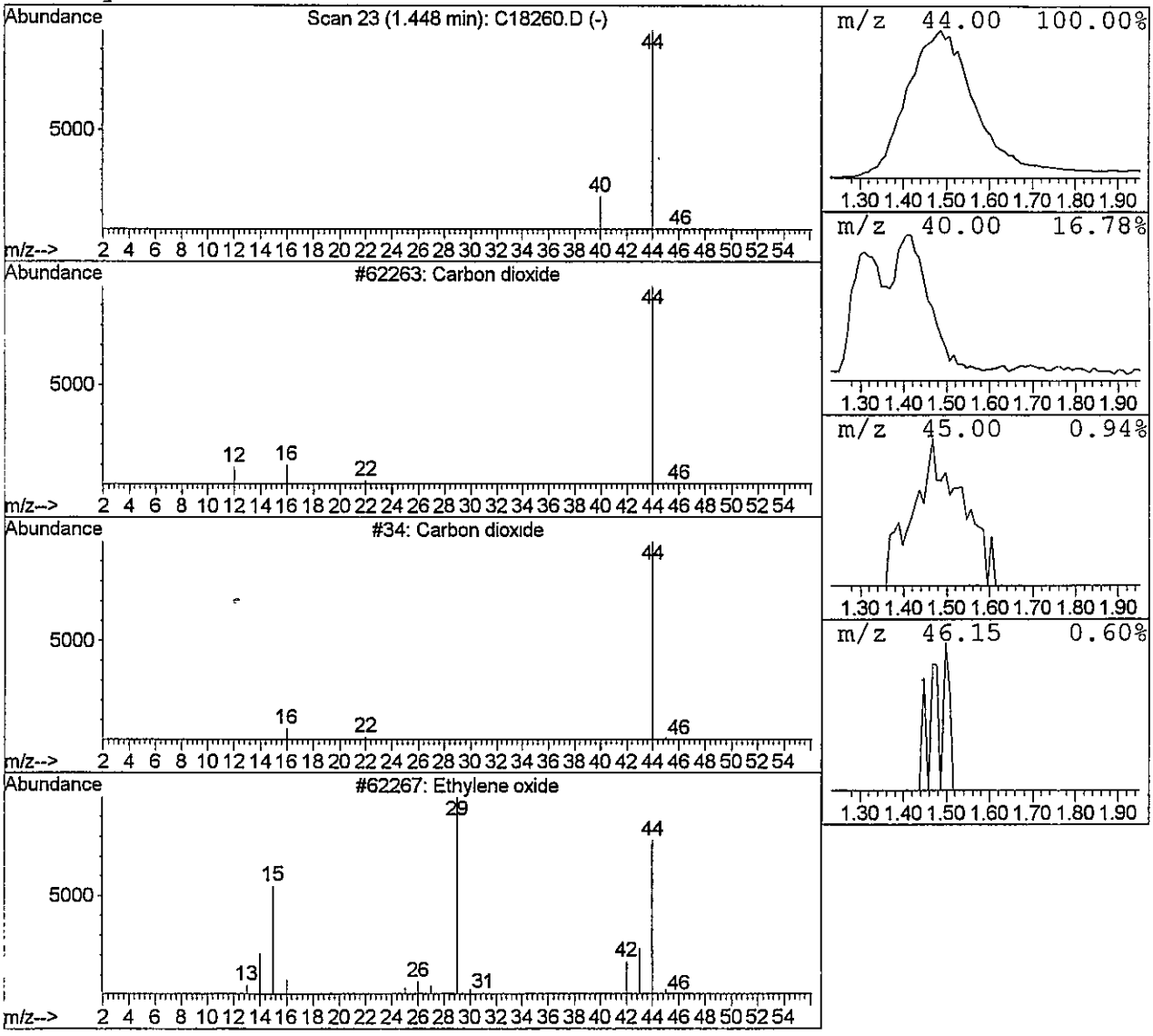
Quant Method : c:\hpchem\1\data\122900\12290025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Library : C:\DATABASE\NBS75K.L

****

Peak Number 1 Carbon dioxide Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
1.45	1.31 ug\L	151284	Pentafluorobenzene	6.47

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Carbon dioxide	44	CO2	000124-38-9	4
2	Carbon dioxide	44	CO2	000124-38-9	4
3	Ethylene oxide	44	C2H4O	000075-21-8	3
4	Ethylene oxide	44	C2H4O	000075-21-8	3



Data File : C:\HPCHEM\1\DATA\122900\C18260.D
Acq On : 29 Dec 2000 20:52
Sample : AC05542 25ml DF=1
Misc : 26563/C12140025
MS Integration Params: LSCINT.P

Vial: 11
Operator: TAG/VR
Inst : VOA-C
Multiplr: 1.00

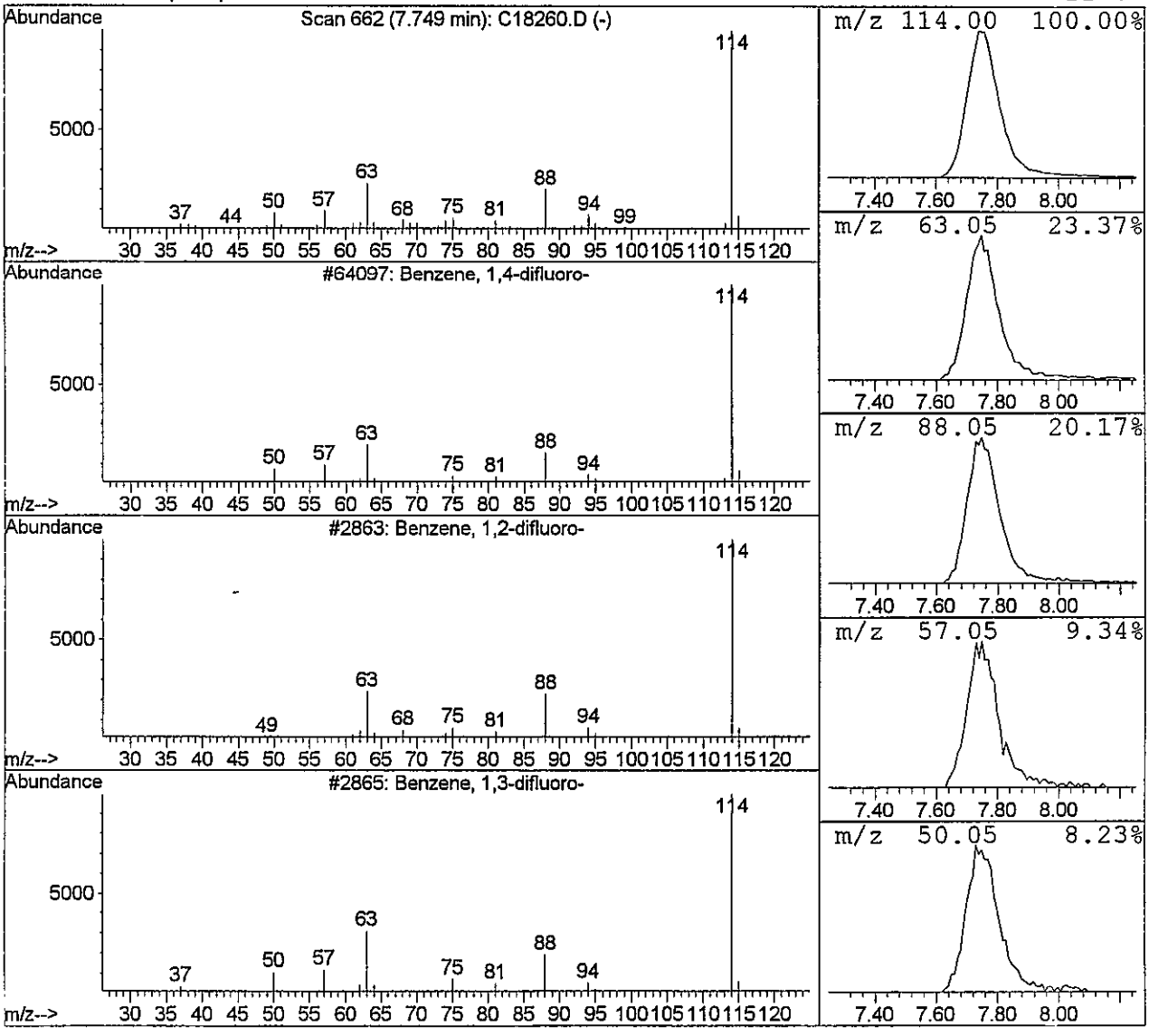
Quant Method : c:\hpchem\1\data\122900\12290025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Library : C:\DATABASE\NBS75K.L

****

Peak Number 2 Benzene, 1,4-difluoro- Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.75	7.98 ug\L	920155	Pentafluorobenzene	6.47

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1,4-difluoro-	114	C6H4F2	000540-36-3	97
2	Benzene, 1,2-difluoro-	114	C6H4F2	000367-11-3	95
3	Benzene, 1,3-difluoro-	114	C6H4F2	000372-18-9	95
4	Benzene, 1,2-difluoro-	114	C6H4F2	000367-11-3	94



Tentatively Identified Compound (LSC) summary

Operator ID: TAG/VR Date Acquired: 29 Dec 2000 20:52
Data File: C:\HPCHEM\1\DATA\122900\C18260.D
Name: AC05542 25ml DF=1
Misc: 26563/C12140025
Method: c:\hpchem\1\data\122900\12290025.M (RTE Integrator)
Title: 8260 CALIBRATION FOR 25ML WATER
Library Searched: C:\DATABASE\NBS75K.L

TIC Top Hit name	RT	EstConc	Units	Area	IntStd	ISRT	ISArea	ISConc
Carbon dioxide	1.45	1.3	ug\L	151284	ISTD01	6.47	1152680	10.0
Benzene, 1,4-difluor	7.75	8.0	ug\L	920155	ISTD01	6.47	1152680	10.0

C18260.D 12290025.M Thu Jan 04 10:31:07 2001 RPT1

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\122900\C18261.D Vial: 12
Acq On : 29 Dec 2000 21:22 Operator: TAG/VR
Sample : AC05543 25ml DF=1 Inst : VOA-C
Misc : 26563/C12140025 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 29 21:48 2000 Quant Results File: 12290025.RES

Quant Method : c:\hpchem\1\data\122900\12290025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Fri Dec 29 10:24:33 2000
Response via : Initial Calibration
DataAcq Meth : 12290025

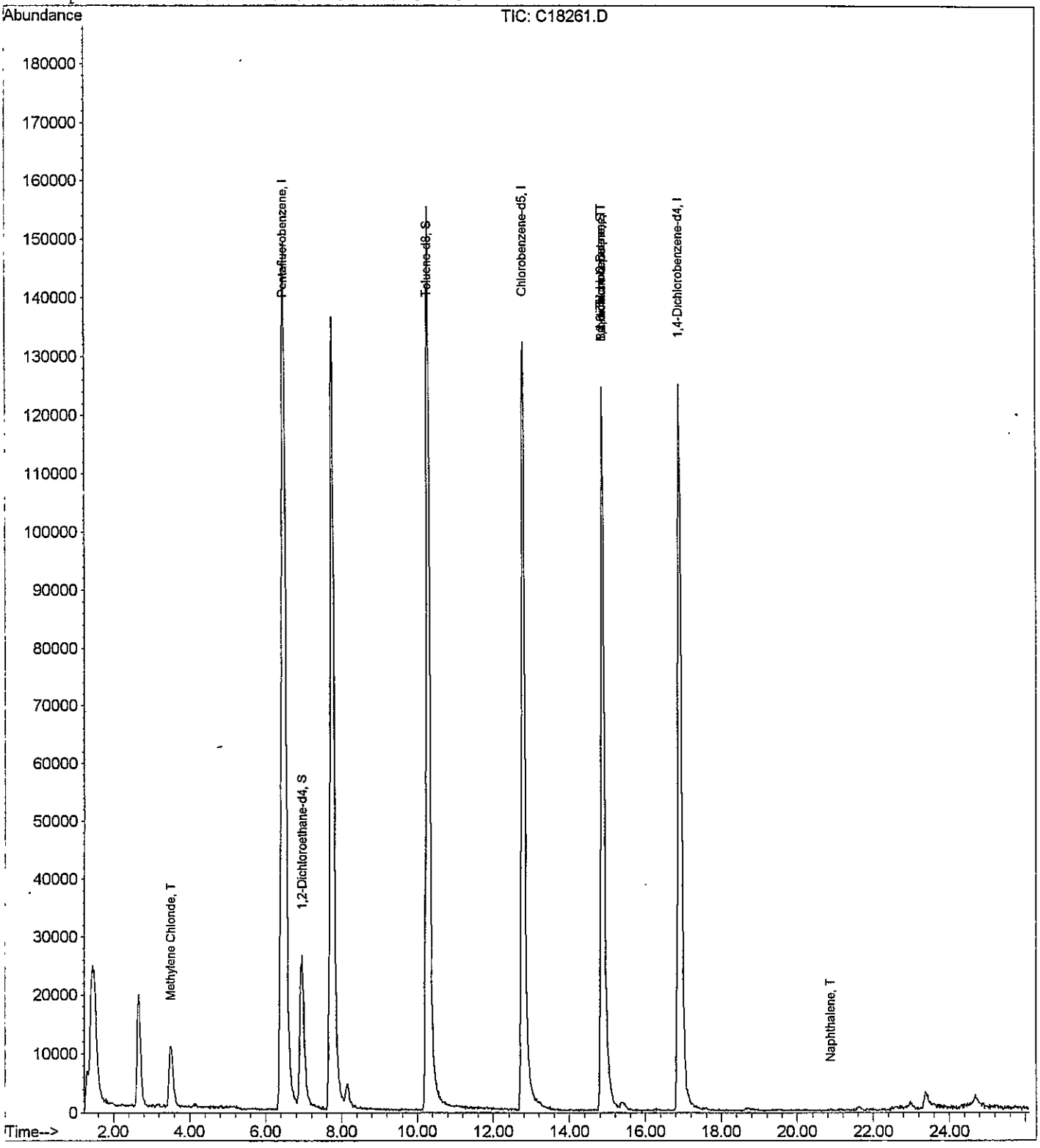
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Pentafluorobenzene	6.48	168	426363	10.00 ug\L	0.00
45) Chlorobenzene-d5	12.79	117	290790	10.00 ug\L	0.01
61) 1,4-Dichlorobenzene-d4	16.90	152	143371	10.00 ug\L	0.01
System Monitoring Compounds					
32) 1,2-Dichloroethane-d4	6.96	65	73401	8.67 ug\L	0.01
Spiked Amount 10.000	Range 80 - 120		Recovery = 86.70%		
46) Toluene-d8	10.27	98	409186	9.50 ug\L	0.00
Spiked Amount 10.000	Range 87 - 104		Recovery = 95.00%		
65) Bromofluorobenzene	14.87	95	189030	9.51 ug\L	0.00
Spiked Amount 10.000	Range 84 - 110		Recovery = 95.10%		
Target Compounds					Qvalue
16) Methylene Chloride	3.51	86	13223	0.86 ug\L #	28
34) Isobutyl alcohol	7.08	43	65	~~26.46 ug\L~~ #	17
64) 1,4-dichloro-2-Butene	14.88	75	89700	~~20.19 ug\L~~ #	100
68) 1,2,3-Trichloropropane	14.88	75	89700	~~20.18 ug\L~~ #	100
85) Naphthalene	20.88	128	295	0.98 ug\L	100

VR
01/02/01

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

Data File : C:\HPCHEM\1\DATA\122900\C18261.D Vial: 12
Acq On : 29 Dec 2000 21:22 Operator: TAG/VR
Sample : AC05543 25ml DF=1 Inst : VOA-C
Misc : 26563/C12140025 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 29 21:48 2000 Quant Results File: 12290025.RES

Method : c:\hpchem\1\data\122900\12290025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Fri Dec 29 08:48:11 2000
Response via : Initial Calibration



1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

TRIP BLANK

Lab Name: Accura Analytical Lab. Contract: _____

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

Matrix: (soil/water) WATER Lab Sample ID: AC05543

Sample wt/vol: 25.0 (g/ml) ML Lab File ID: C18261.D

Level: (low/med) LOW Date Received: 12/21/00

% Moisture: not dec. _____ Date Analyzed: 12/29/00

GC Column: DB-624 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 NAME	RT	EST. CONC.	Q

LSC Area Percent Report

Data File : C:\HPCHEM\1\DATA\122900\C18261.D Vial: 12
Acq On : 29 Dec 2000 21:22 Operator: TAG/VR
Sample : AC05543 25ml DF=1 Inst : VOA-C
Misc : 26563/C12140025 Multiplr: 1.00
MS Integration Params: LSCINT.P

Method : C:\HPCHEM\1\DATA\122900\12290025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Smoothing : OFF Filtering: 5
Sampling : 1 Min Area: 1 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Signal : TIC

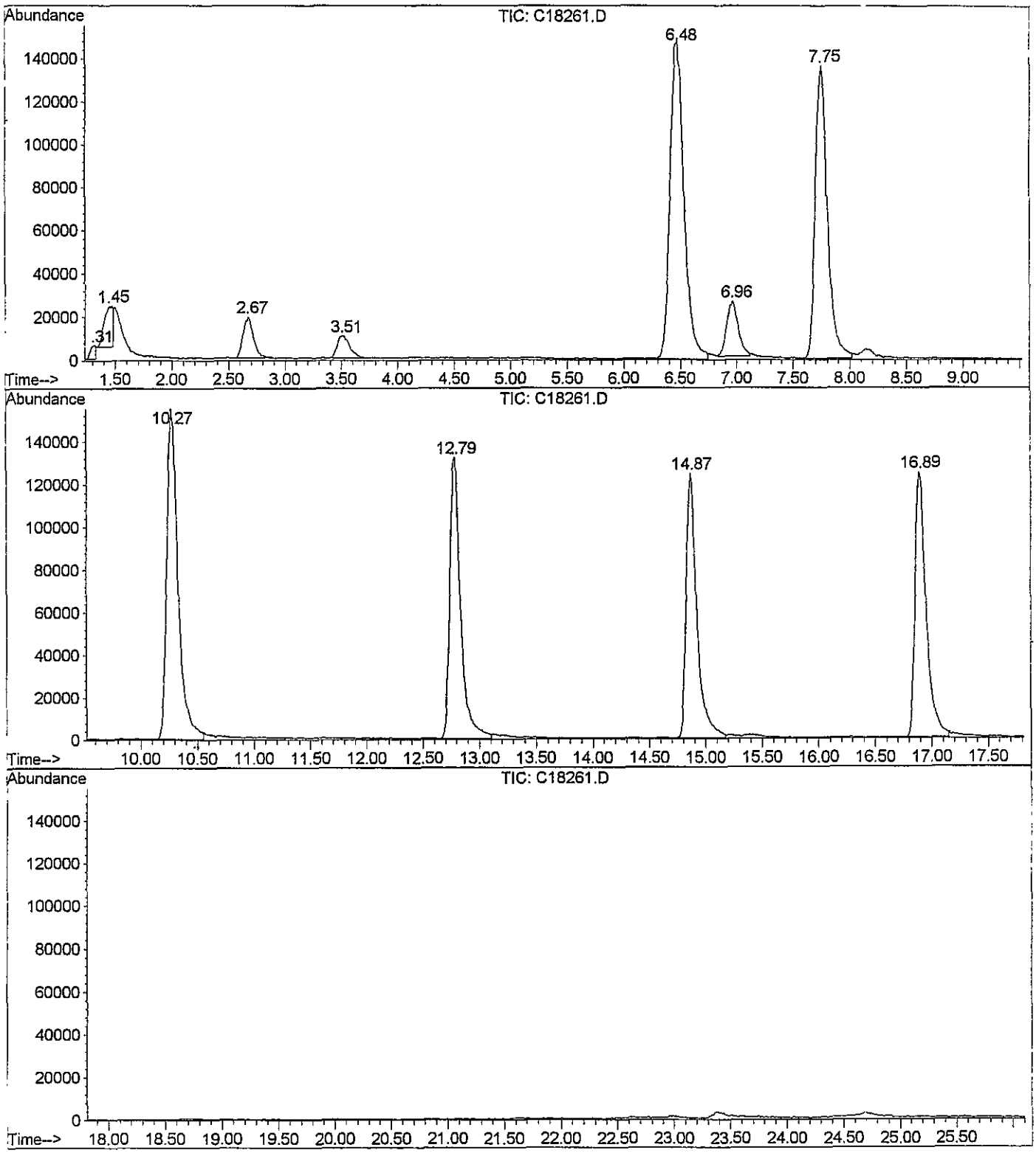
peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	peak area	peak % max.	% of total
1	1.309	3	9	11	rBV	6237	21326	1.68%	0.333%
2	1.447	13	23	26	rBV2	18726	95852	7.54%	1.498%
3	2.670	136	147	163	rBV	18861	118177	9.30%	1.847%
4	3.509	223	232	250	rVB3	10023	74910	5.90%	1.171%
5	6.477	514	533	560	rBV	148946	1270498	100.00%	19.860%
6	6.960	569	582	598	rBV4	25289	181506	14.29%	2.837%
7	7.749	647	662	689	rBV2	136177	994111	78.25%	15.539%
8	10.274	905	918	946	rBV	155128	1074800	84.60%	16.801%
9	12.789	1160	1173	1205	rBV3	131958	888832	69.96%	13.894%
10	14.869	1370	1384	1415	rBV	124276	825742	64.99%	12.908%
11	16.891	1578	1589	1615	rBV	124693	851599	67.03%	13.312%

Sum of corrected areas: 6397353

C18261.D 12290025.M Fri Jan 05 08:08:57 2001 RPT1

LSC Report - Integrated Chromatogram

File : C:\HPCHEM\1\DATA\122900\C18261.D
Operator : TAG/VR
Acquired : 29 Dec 2000 21:22 using AcqMethod 12290025
Instrument : VOA-C
Sample Name: AC05543 25ml DF=1
Misc Info : 26563/C12140025
Vial Number: 12
Quant File :12290025.RES (RTE Integrator)



C18261.D 12290025.M Fri Jan 05 08:08:58 2001 RPT1

Data File : C:\HPCHEM\1\DATA\122900\C18261.D Vial: 12
Acq On : 29 Dec 2000 21:22 Operator: TAG/VR
Sample : AC05543 25ml DF=1 Inst : VOA-C
Misc : 26563/C12140025 Multiplr: 1.00
MS Integration Params: LSCINT.P

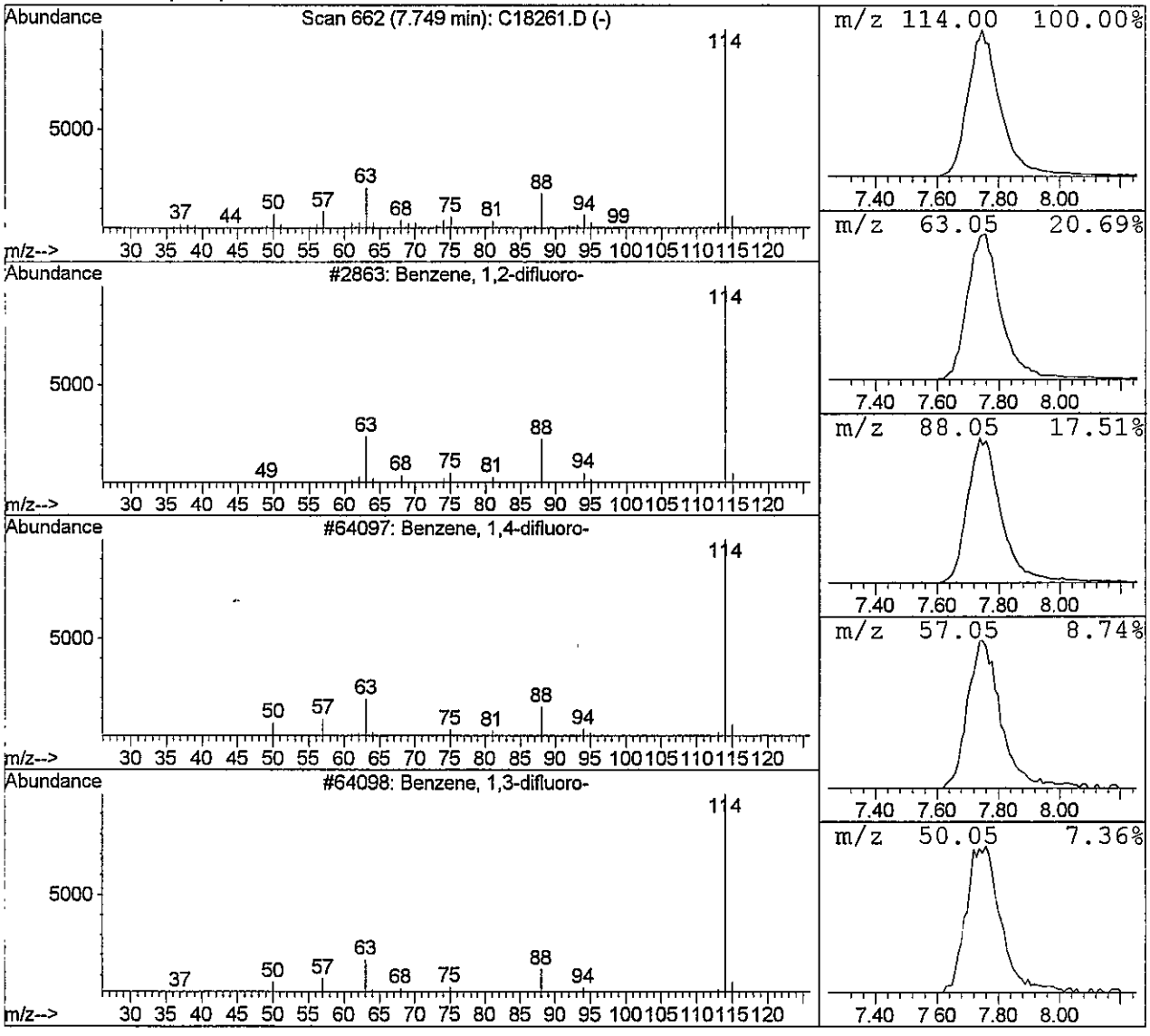
Quant Method : C:\HPCHEM\1\DATA\122900\12290025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Library : C:\DATABASE\NBS75K.L

****

Peak Number 1 Benzene, 1,2-difluoro- Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.75	7.82 ug\L	994111	Pentafluorobenzene	6.48

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1,2-difluoro-	114	C6H4F2	000367-11-3	97
2	Benzene, 1,4-difluoro-	114	C6H4F2	000540-36-3	97
3	Benzene, 1,3-difluoro-	114	C6H4F2	000372-18-9	95
4	Benzene, 1,2-difluoro-	114	C6H4F2	000367-11-3	94



Tentatively Identified Compound (LSC) summary

Operator ID: TAG/VR Date Acquired: 29 Dec 2000 21:22
Data File: C:\HPCHEM\1\DATA\122900\C18261.D
Name: AC05543 25ml DF=1
Misc: 26563/C12140025
Method: C:\HPCHEM\1\DATA\122900\12290025.M (RTE Integrator)
Title: 8260 CALIBRATION FOR 25ML WATER
Library Searched: C:\DATABASE\NBS75K.L

TIC Top Hit name	RT	EstConc	Units	Area	IntStd	ISRT	ISArea	ISConc
Benzene, 1,2-difluor	7.75	7.8	ug\L	994111	ISTD01	6.48	1270500	10.0

C18261.D 12290025.M Fri Jan 05 08:09:00 2001 RPT1

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\010401\01040103.D Vial: 3
Acq On : 4 Jan 2001 12:24 Operator: MT
Sample : QFW1226001 Inst : DRO-B
Misc : PROW BLANK Multiplr: 1.00
IntFile : events.e
Quant Time: Jan 4 13:05 2001 Quant Results File: PRO1208.RES

Quant Method : C:\HPCHEM\2\METHODS\PRO1208.M (Chemstation Integrator)
Title : FLORIDA PRO BY GC; INST. #2
Last Update : Tue Jan 02 11:40:23 2001
Response via : Initial Calibration
DataAcq Meth : PRO1208.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) SC o-TERPHENYL	19.08	1973407	42.739 ug/mlm ✓MT
Spiked Amount 50.000	Recovery =		85.48%
3) SC C(39)	34.30	588738	13.402 ug/mlm
Spiked Amount 300.000	Recovery =		4.47% x MT
Target Compounds			
1) HM Florida PRO	3.70	21866968	384.471 ug/ml / 1000 =

0.385 ppm
MT

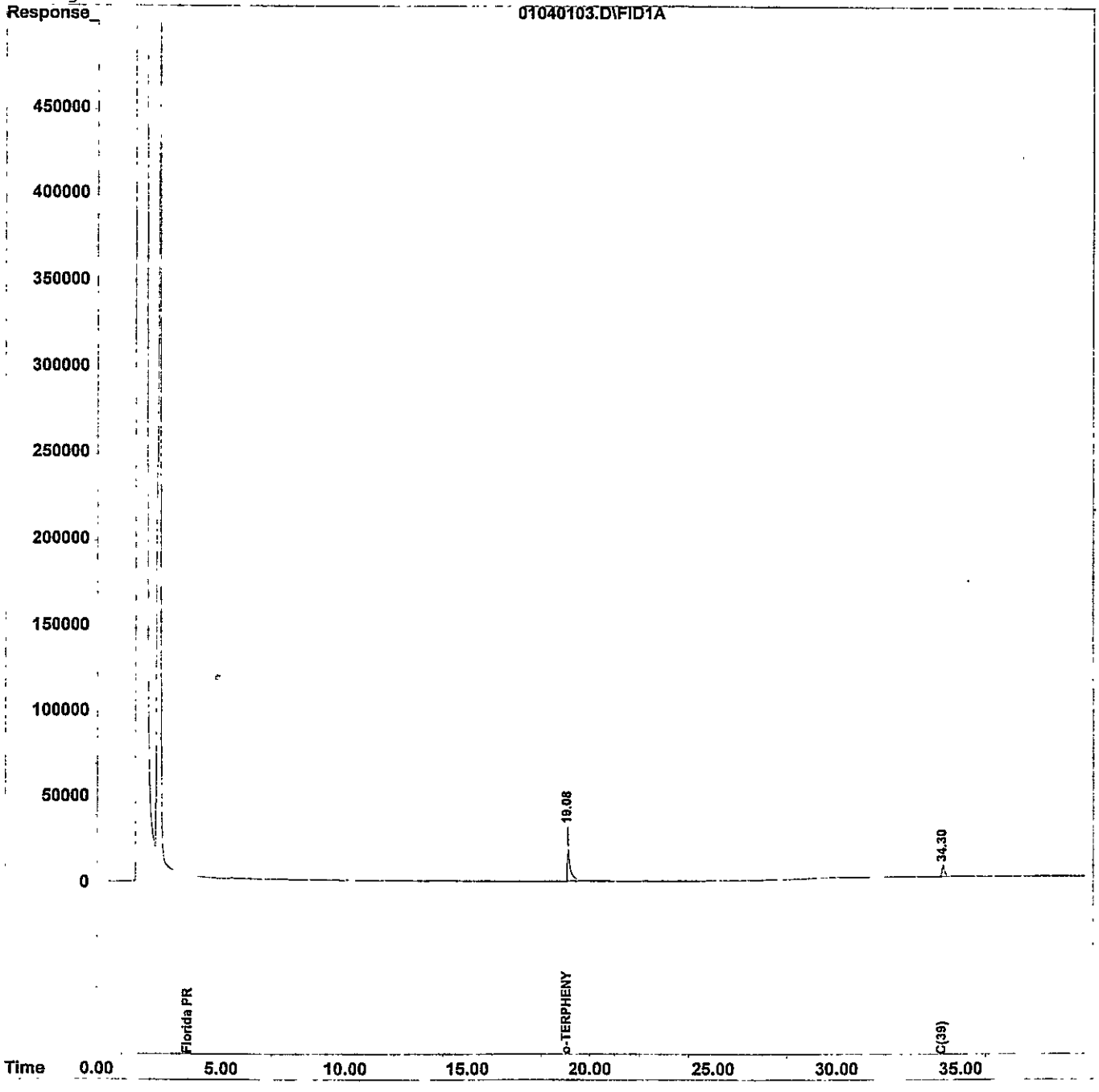
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\2\DATA\010401\01040103.D Vial: 3
Acq On : 4 Jan 2001 12:24 Operator: MT
Sample : QFW1226001 Inst : DRO-B
Misc : PROW BLANK Multiplr: 1.00
IntFile : events.e
Quant Time: Jan 4 13:05 2001 Quant Results File: PRO1208.RES

Quant Method : C:\HPCHEM\2\METHODS\PRO1208.M (Chemstation Integrator)
Title : FLORIDA PRO BY GC; INST. #2
Last Update : Tue Jan 02 11:40:23 2001
Response via : Multiple Level Calibration
DataAcq Meth : PRO1208.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\122900\C18251.D Vial: 2
Acq On : 29 Dec 2000 15:59 Operator: TAG/VR
Sample : QVW 122900 C1 Inst : VOA-C
Misc : WATER BLANK 25ml DF=1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 29 16:26 2000 Quant Results File: 12290025.RES

Quant Method : C:\HPCHEM\1\DATA\122900\12290025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Fri Dec 29 10:24:33 2000
Response via : Initial Calibration
DataAcq Meth : 12290025

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Pentafluorobenzene	6.45	168	441442	10.00 ug\L	-0.02
45) Chlorobenzene-d5	12.77	117	281553	10.00 ug\L	0.00
61) 1,4-Dichlorobenzene-d4	16.90	152	136373	10.00 ug\L	0.01
System Monitoring Compounds					
32) 1,2-Dichloroethane-d4	6.95	65	70982	8.10 ug\L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 81.00%		
46) Toluene-d8	10.27	98	414146	9.93 ug\L	0.00
Spiked Amount 10.000	Range 87 - 104		Recovery = 99.30%		
65) Bromofluorobenzene	14.87	95	182227	9.64 ug\L	0.00
Spiked Amount 10.000	Range 84 - 110		Recovery = 96.40%		
Target Compounds					Qvalue
16) Methylene Chloride	3.50	86	1123	~~-1.03 ug\L #~~	58
34) Isobutyl alcohol	7.16	43	182	~~-24.54 ug\L #~~	17
36) Trichloroethene	7.74	95	11421	~~-0.55 ug\L #~~	9
64) 1,4-dichloro-2-Butene	14.88	75	89405	~~21.16 ug\L #~~	100
68) 1,2,3-Trichloropropane	14.88	75	89405	~~21.15 ug\L #~~	100
85) Naphthalene	20.86	128	891	1.05 ug\L	100

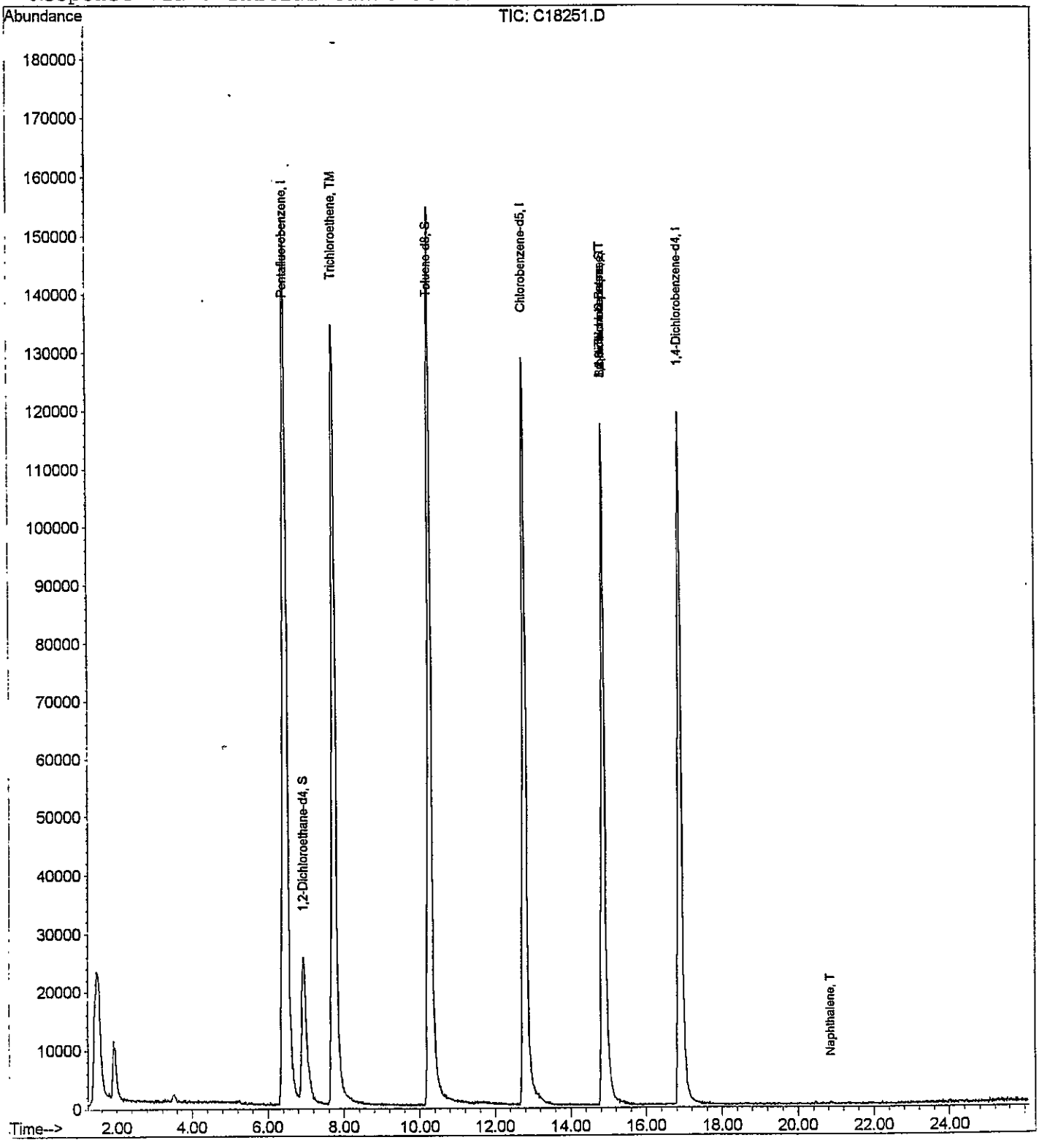
VR
12/29/00

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

Quantitation Report

Data File : C:\HPCHEM\1\DATA\122900\C18251.D Vial: 2
Acq On : 29 Dec 2000 15:59 Operator: TAG/VR
Sample : QVW 122900 C1 Inst : VOA-C
Misc : WATER BLANK 25ml DF=1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 29 16:26 2000 Quant Results File: 12290025.RES

Method : C:\HPCHEM\1\DATA\122900\12290025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Fri Dec 29 08:48:11 2000
Response via : Initial Calibration



1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

WATER BLANK

Lab Name: Accura Analytical Lab. Contract: _____

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

Matrix: (soil/water) WATER Lab Sample ID: QVW122900 C1

Sample wt/vol: 25.0 (g/ml) ML Lab File ID: C18251.D

Level: (low/med) LOW Date Received: 12/21/00

% Moisture: not dec. _____ Date Analyzed: 12/29/00

GC Column: DB-624 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 NAME	RT	EST. CONC.	Q

LSC Area Percent Report

Data File : C:\HPCHEM\1\DATA\122900\C18251.D Vial: 2
Acq On : 29 Dec 2000 15:59 Operator: TAG/VR
Sample : QVW 122900 C1 Inst : VOA-C
Misc : WATER BLANK 25ml DF=1 Multiplr: 1.00
MS Integration Params: LSCINT.P

Method : c:\hpchem\1\data\122900\12290025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Smoothing : OFF Filtering: 5
Sampling : 1 Min Area: 1 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Signal : TIC

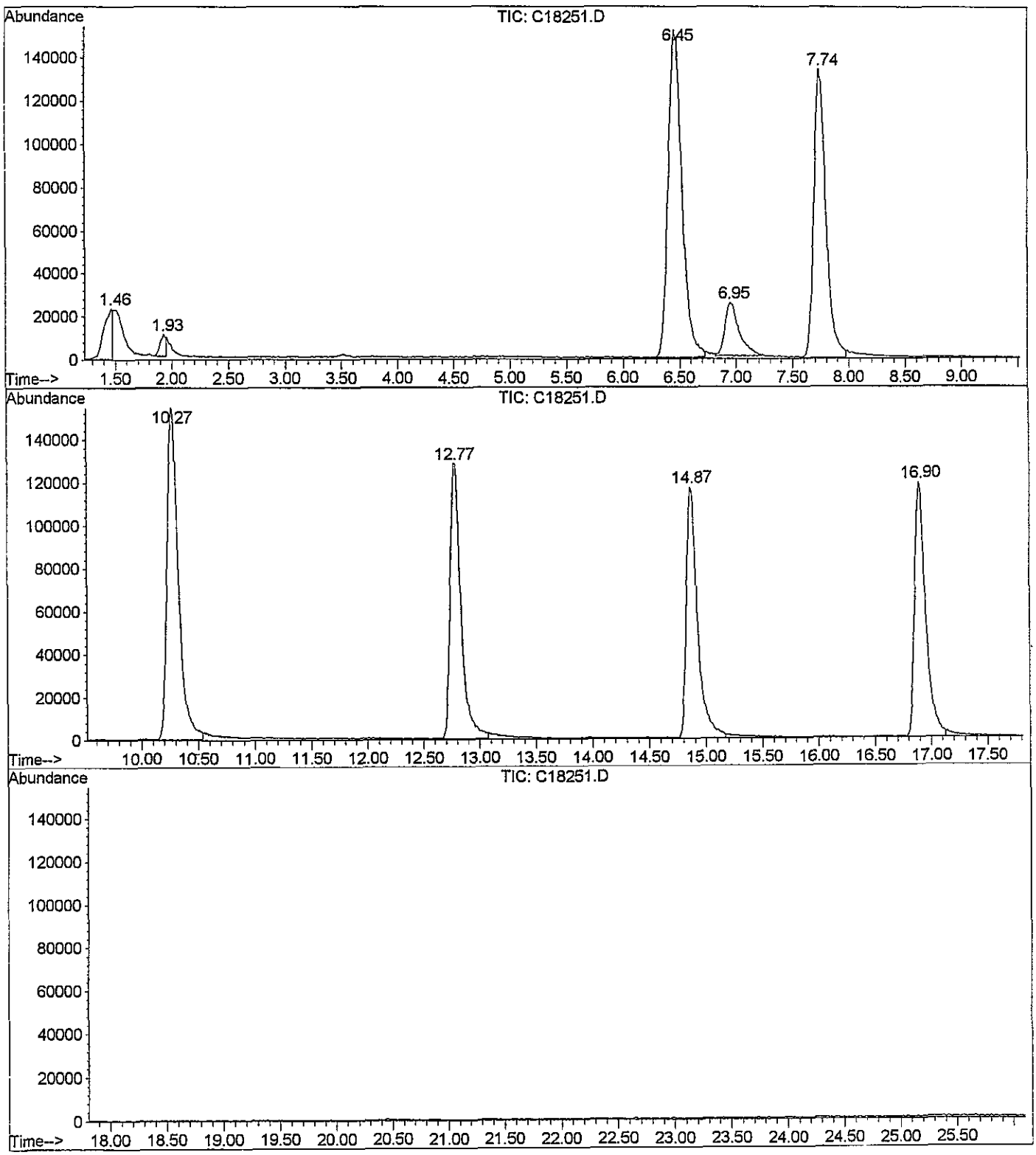
peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	peak area	peak % max.	% of total
1	1.463	4	25	26	rBV2	23124	119766	9.27%	1.941%
2	1.927	63	72	74	rBV	9766	33330	2.58%	0.540%
3	6.453	513	531	558	rBV2	152168	1291308	100.00%	20.929%
4	6.946	568	581	609	rVB5	24563	214909	16.64%	3.483%
5	7.735	644	661	685	rBV	134014	991282	76.77%	16.066%
6	10.270	904	918	945	rBV	154231	1065179	82.49%	17.264%
7	12.775	1161	1172	1202	rBV2	128384	859241	66.54%	13.926%
8	14.865	1371	1384	1415	rBV2	117044	792061	61.34%	12.837%
9	16.897	1578	1590	1613	rBV2	119030	802976	62.18%	13.014%

Sum of corrected areas: 6170052

C18251.D 12290025.M Thu Jan 04 10:33:03 2001 RPT1

LSC Report - Integrated Chromatogram

File : C:\HPCHEM\1\DATA\122900\C18251.D
Operator : TAG/VR
Acquired : 29 Dec 2000 15:59 using AcqMethod 12290025
Instrument : VOA-C
Sample Name: QVW 122900 C1
Misc Info : WATER BLANK 25ml DF=1
Vial Number: 2
Quant File :12290025.RES (RTE Integrator)



C18251.D 12290025.M Thu Jan 04 10:33:04 2001 RPT1

Data File : C:\HPCHEM\1\DATA\122900\C18251.D Vial: 2
Acq On : 29 Dec 2000 15:59 Operator: TAG/VR
Sample : QVW 122900 C1 Inst : VOA-C
Misc : WATER BLANK 25ml DF=1 Multiplr: 1.00
MS Integration Params: LSCINT.P

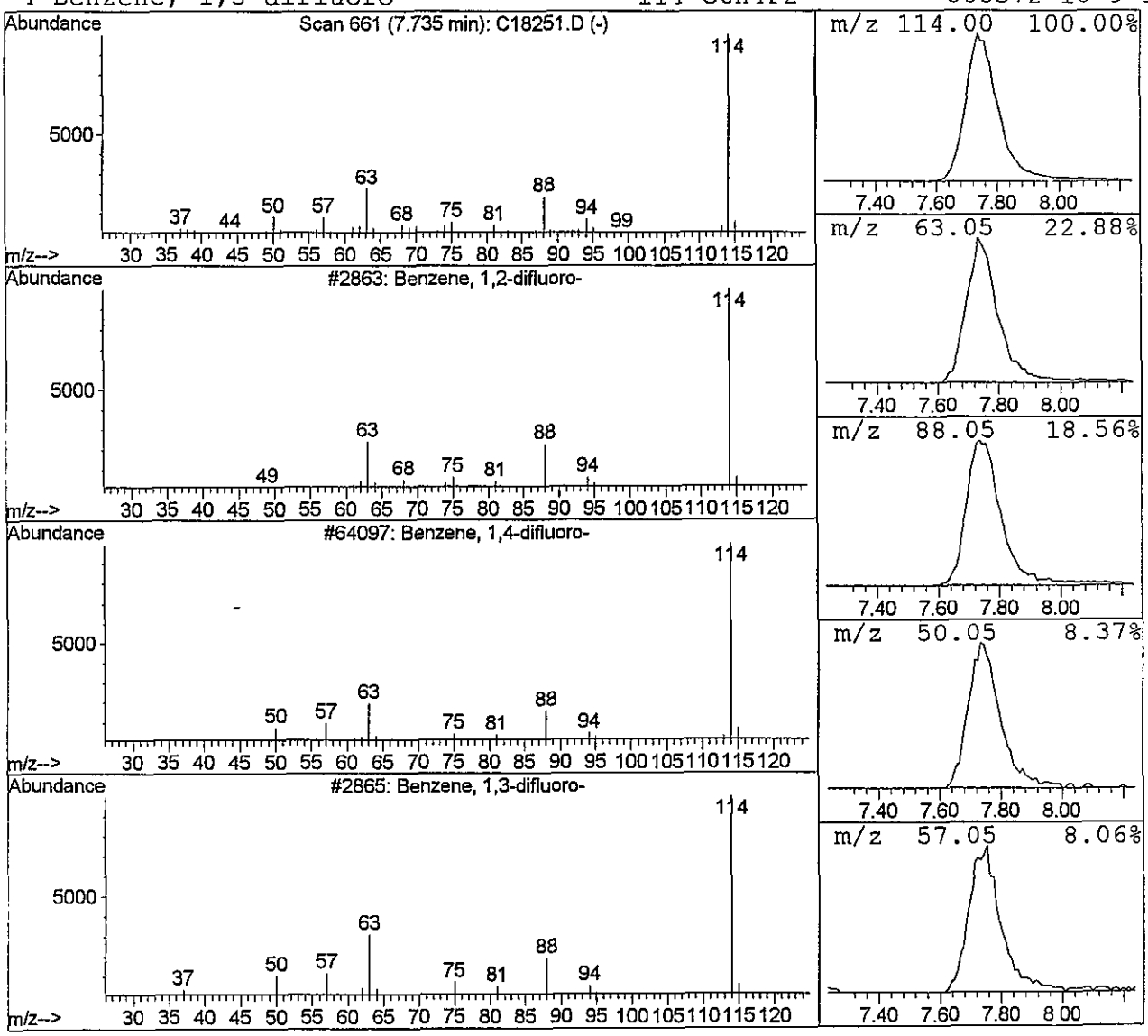
Quant Method : C:\HPCHEM\1\DATA\122900\12290025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Library : C:\DATABASE\NBS75K.L

****

Peak Number 1 Benzene, 1,2-difluoro- Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.74	7.68 ug\L	991282	Pentafluorobenzene	6.45

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1,2-difluoro-	114	C6H4F2	000367-11-3	97
2	Benzene, 1,4-difluoro-	114	C6H4F2	000540-36-3	97
3	Benzene, 1,3-difluoro-	114	C6H4F2	000372-18-9	96
4	Benzene, 1,3-difluoro-	114	C6H4F2	000372-18-9	91



Tentatively Identified Compound (LSC) summary

Operator ID: TAG/VR Date Acquired: 29 Dec 2000 15:59
Data File: C:\HPCHEM\1\DATA\122900\C18251.D
Name: QVW 122900 C1
Misc: WATER BLANK 25ml DF=1
Method: C:\HPCHEM\1\DATA\122900\12290025.M (RTE Integrator)
Title: 8260 CALIBRATION FOR 25ML WATER
Library Searched: C:\DATABASE\NBS75K.L

TIC Top Hit name	RT	EstConc	Units	Area	IntStd	ISRT	ISArea	ISConc
Benzene, 1,2-difluor	7.74	7.7	ug\L	991282	ISTD01	6.45	1291310	10.0

C18251.D 12290025.M Thu Jan 04 10:33:07 2001 RPT1

INITIAL CALIBRATION
5 POINT DRO

DATE:	12/8/00			
METHOD:	FL PRO			
INSTRUMENT:	DRO-B ; FRONT COLUMN			
ANALYST:	MT			
ICAL ID:	PRO1208			
CONCENTRATION (PPM)			**AREA**	**Rf**
850			62182797	73156.2
2550			138696300	54390.7
4250			225396394	53034.4
5950			320089278	53796.5
7692			384596146	49999.5
AVERAGE Rf:			56875.5	
% RSD:			16.3	

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\011001\01100104.D Vial: 4
Acq On : 10 Jan 2001 17:48 Operator: MT
Sample : 4250 PHS PRO CCV Inst : DRO-B
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Jan 10 18:39 2001 Quant Results File: PRO1208.RES

Quant Method : C:\HPCHEM\2\METHODS\PRO1208.M (Chemstation Integrator)
Title : FLORIDA PRO BY GC; INST. #2
Last Update : Tue Jan 02 11:40:23 2001
Response via : Initial Calibration
DataAcq Meth : PRO1208.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) SC o-TERPHENYL	19.08	2444482	52.942 ug/mlm
Spiked Amount 50.000	Recovery =		105.88% MT
3) SC C(39)	34.43	13730556	312.551 ug/mlm
Spiked Amount 300.000	Recovery =		104.18% MT
Target Compounds			
1) HM Florida PRO	3.70	227224656	3995.125 ug/ml

94% ✓
MT

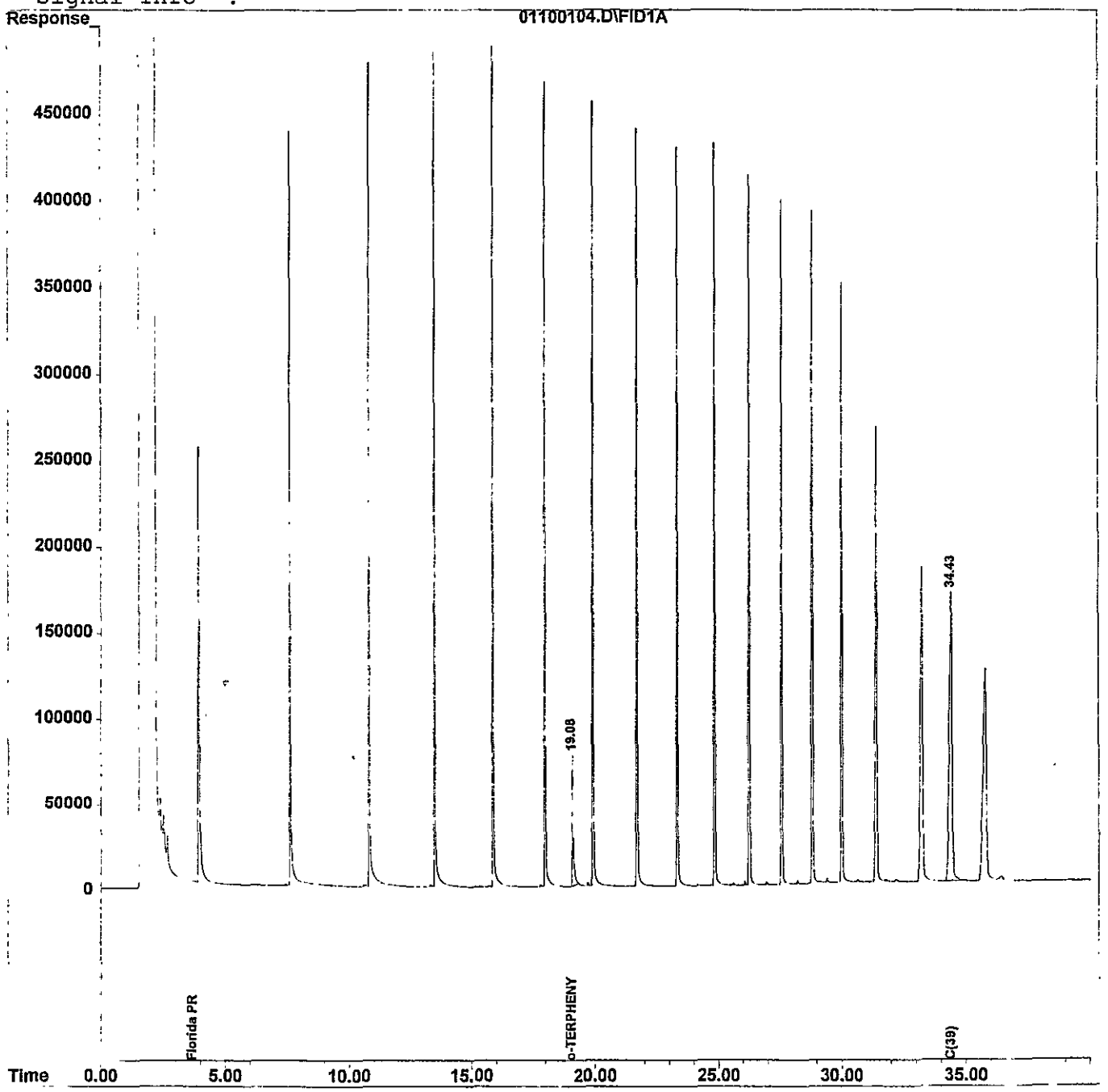
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\2\DATA\011001\01100104.D Vial: 4
Acq On : 10 Jan 2001 17:48 Operator: MT
Sample : 4250 PHS PRO CCV Inst : DRO-B
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Jan 10 18:39 2001 Quant Results File: PRO1208.RES

Quant Method : C:\HPCHEM\2\METHODS\PRO1208.M (Chemstation Integrator)
Title : FLORIDA PRO BY GC; INST. #2
Last Update : Tue Jan 02 11:40:23 2001
Response via : Multiple Level Calibration
DataAcq Meth : PRO1208.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\011001\01100101.D Vial: 1
Acq On : 10 Jan 2001 13:36 Operator: MT
Sample : 4250 PHS PRO CCV Inst : DRO-B
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Jan 10 16:33 2001 Quant Results File: PRO1208.RES

Quant Method : C:\HPCHEM\2\METHODS\PRO1208.M (Chemstation Integrator)
Title : FLORIDA PRO BY GC; INST. #2
Last Update : Tue Jan 02 11:40:23 2001
Response via : Initial Calibration
DataAcq Meth : PRO1208.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) SC o-TERPHENYL	19.12	2506056	54.275 ug/mlm
Spiked Amount 50.000		Recovery =	108.55% MT
3) SC C(39)	34.50	13207122	300.636 ug/mlm
Spiked Amount 300.000		Recovery =	100.21% MT
Target Compounds			
1) HM Florida PRO	3.70	215880552	3795.670 ug/ml

89% ✓
MT

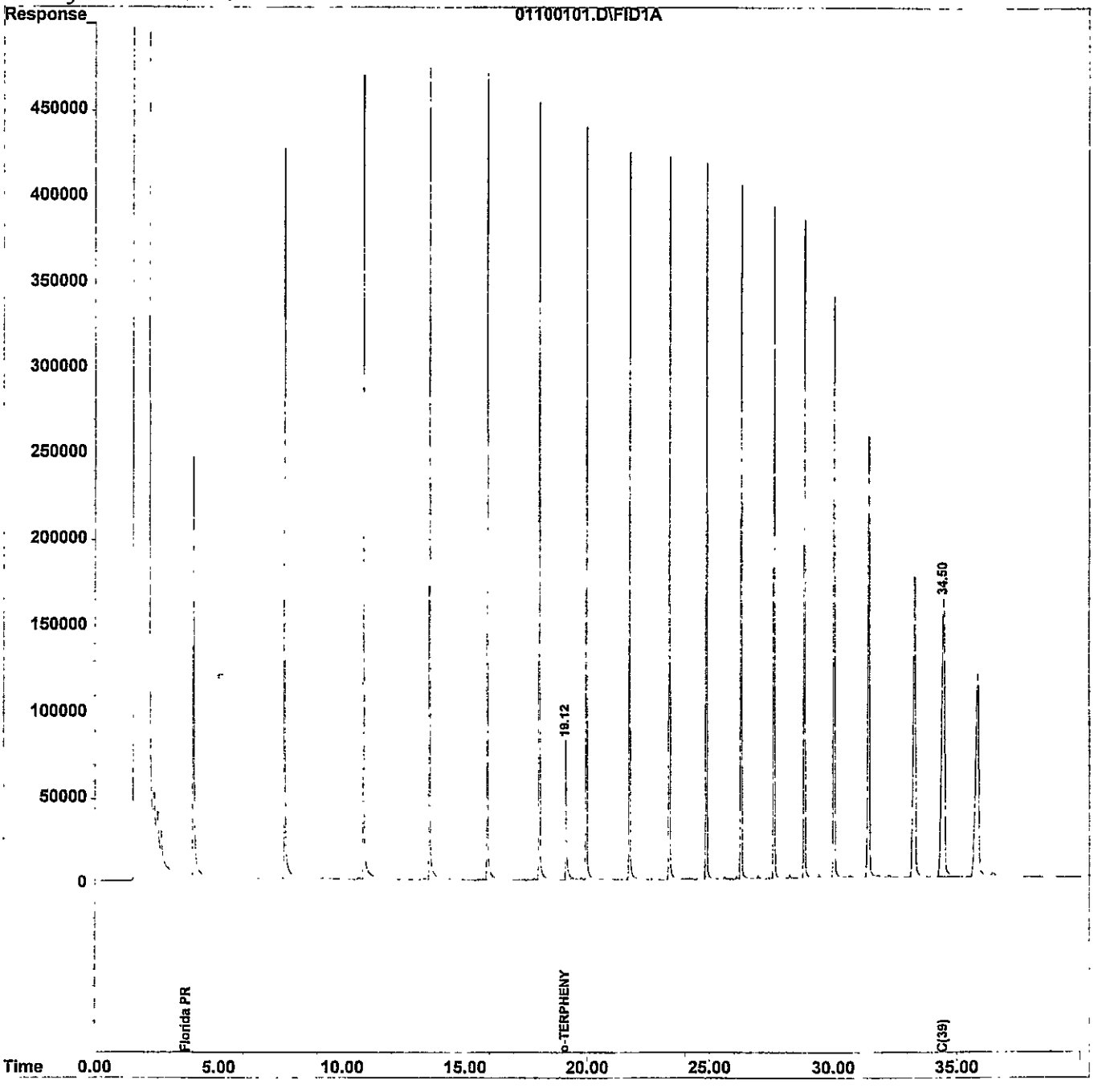
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\2\DATA\011001\01100101.D Vial: 1
Acq On : 10 Jan 2001 13:36 Operator: MT
Sample : 4250 PHS PRO CCV Inst : DRO-B
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Jan 10 16:33 2001 Quant Results File: PRO1208.RES

Quant Method : C:\HPCHEM\2\METHODS\PRO1208.M (Chemstation Integrator)
Title : FLORIDA PRO BY GC; INST. #2
Last Update : Tue Jan 02 11:40:23 2001
Response via : Multiple Level Calibration
DataAcq Meth : PRO1208.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\010901\01090116.D Vial: 13
Acq On : 10 Jan 2001 6:37 Operator: MT
Sample : 4250 PHS PRO CCV Inst : DRO-B
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Jan 10 13:26 2001 Quant Results File: PRO1208.RES

Quant Method : C:\HPCHEM\2\METHODS\PRO1208.M (Chemstation Integrator)
Title : FLORIDA PRO BY GC; INST. #2
Last Update : Tue Jan 02 11:40:23 2001
Response via : Initial Calibration
DataAcq Meth : PRO1208.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) SC o-TERPHENYL	19.10	2064695	44.716 ug/mlm
Spiked Amount 50.000	Recovery =		89.43% ✓MT
3) SC C(39)	34.49	11872833	270.263 ug/mlm
Spiked Amount 300.000	Recovery =		90.09% ✓MT
Target Compounds			
1) HM Florida PRO	3.70	187828901	3302.458 ug/ml

78% ✓ MT

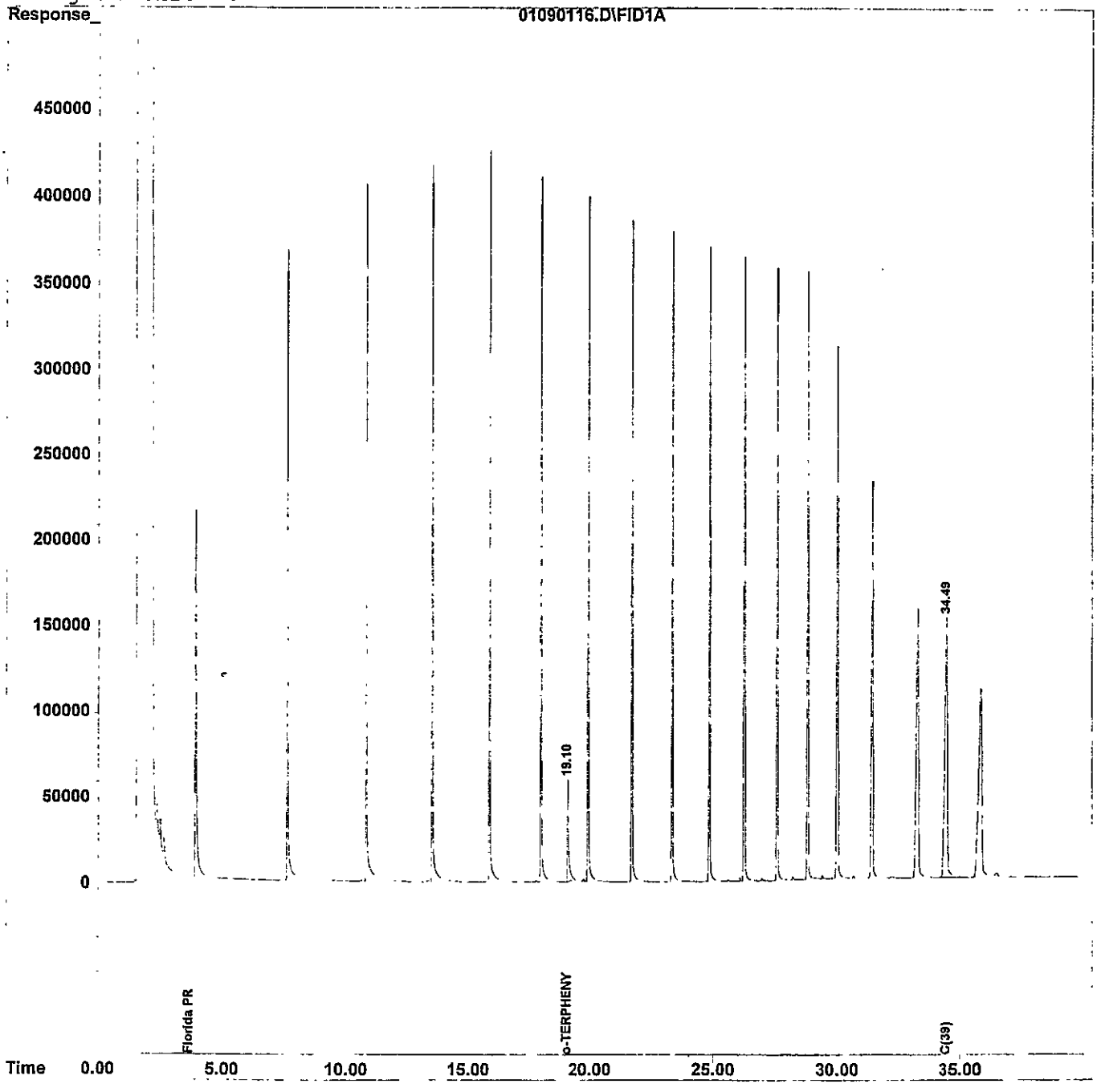
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\2\DATA\010901\01090116.D Vial: 13
Acq On : 10 Jan 2001 6:37 Operator: MT
Sample : 4250 PHS PRO CCV Inst : DRO-B
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Jan 10 13:26 2001 Quant Results File: PRO1208.RES

Quant Method : C:\HPCHEM\2\METHODS\PRO1208.M (Chemstation Integrator)
Title : FLORIDA PRO BY GC; INST. #2
Last Update : Tue Jan 02 11:40:23 2001
Response via : Multiple Level Calibration
DataAcq Meth : PRO1208.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\010901\01090113.D Vial: 13
Acq On : 10 Jan 2001 4:12 Operator: MT
Sample : 4250 PHS PRO CCV Inst : DRO-B
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Jan 10 13:25 2001 Quant Results File: PRO1208.RES

Quant Method : C:\HPCHEM\2\METHODS\PRO1208.M (Chemstation Integrator)
Title : FLORIDA PRO BY GC; INST. #2
Last Update : Tue Jan 02 11:40:23 2001
Response via : Initial Calibration
DataAcq Meth : PRO1208.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) SC o-TERPHENYL	19.10	2114393	45.793 ug/mlm
Spiked Amount 50.000	Recovery =		91.59% ✓ MT
3) SC C(39)	34.49	11567248	263.307 ug/mlm
Spiked Amount 300.000	Recovery =		87.77% ✓ MT
Target Compounds			
1) HM Florida PRO	3.70	184495918	3243.857 ug/ml

76% ✓
MT

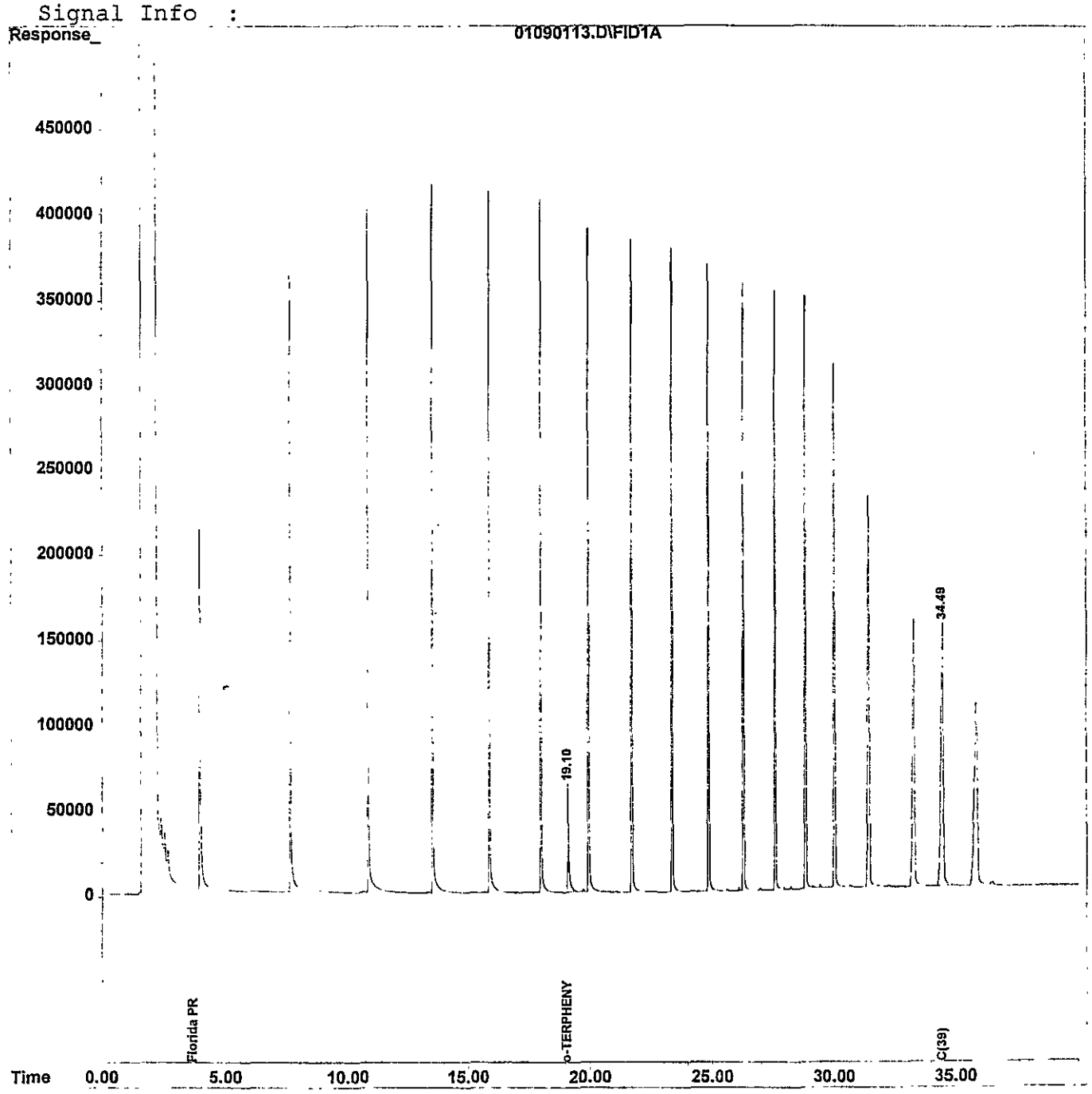
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\2\DATA\010901\01090113.D Vial: 13
Acq On : 10 Jan 2001 4:12 Operator: MT
Sample : 4250 PHS PRO CCV Inst : DRO-B
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Jan 10 13:25 2001 Quant Results File: PRO1208.RES

Quant Method : C:\HPCHEM\2\METHODS\PRO1208.M (Chemstation Integrator)
Title : FLORIDA PRO BY GC; INST. #2
Last Update : Tue Jan 02 11:40:23 2001
Response via : Multiple Level Calibration
DataAcq Meth : PRO1208.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\010901\01090101.D Vial: 1
Acq On : 9 Jan 2001 18:28 Operator: MT
Sample : 4250 PHS PRO CCV Inst : DRO-B
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Jan 9 19:09 2001 Quant Results File: PRO1208.RES

Quant Method : C:\HPCHEM\2\METHODS\PRO1208.M (Chemstation Integrator)
Title : FLORIDA PRO BY GC; INST. #2
Last Update : Tue Jan 02 11:40:23 2001
Response via : Initial Calibration
DataAcq Meth : PRO1208.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) SC o-TERPHENYL	19.09	1983164	42.951 ug/mlm
Spiked Amount 50.000	Recovery =		85.90% MT
3) SC C(39)	34.42	10531622	239.733 ug/mlm
Spiked Amount 300.000	Recovery =		79.91% MT
Target Compounds			
1) HM Florida PRO	3.70	190528897	3349.930 ug/ml

79% ✓
MT

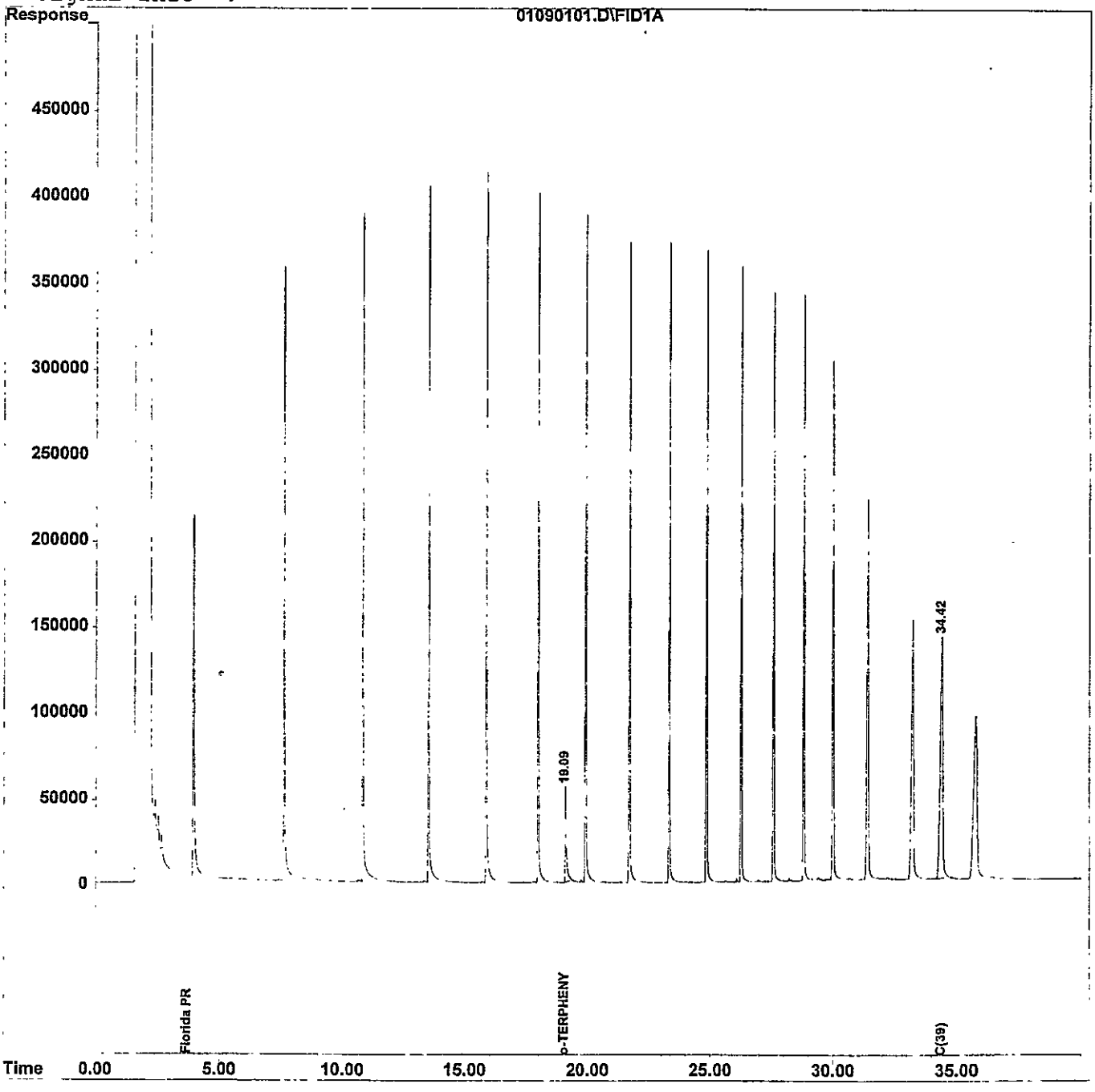
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\2\DATA\010901\01090101.D Vial: 1
Acq On : 9 Jan 2001 18:28 Operator: MT
Sample : 4250 PHS PRO CCV Inst : DRO-B
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Jan 9 19:09 2001 Quant Results File: PRO1208.RES

Quant Method : C:\HPCHEM\2\METHODS\PRO1208.M (Chemstation Integrator)
Title : FLORIDA PRO BY GC; INST. #2
Last Update : Tue Jan 02 11:40:23 2001
Response via : Multiple Level Calibration
DataAcq Meth : PRO1208.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\010401\01040105.D Vial: 5
Acq On : 4 Jan 2001 14:03 Operator: MT
Sample : 4250 PHS PRO CCV Inst : DRO-B
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Jan 4 15:53 2001 Quant Results File: PRO1208.RES

Quant Method : C:\HPCHEM\2\METHODS\PRO1208.M (Chemstation Integrator)
Title : FLORIDA PRO BY GC; INST. #2
Last Update : Tue Jan 02 11:40:23 2001
Response via : Initial Calibration
DataAcq Meth : PRO1208.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) SC o-TERPHENYL	19.06f	2490066	53.929 ug/mlm
Spiked Amount 50.000	Recovery =		107.86% ✓MT
3) SC C(39)	34.41	13634536	310.365 ug/mlm
Spiked Amount 300.000	Recovery =		103.46% ✓MT
Target Compounds			
1) HM Florida PRO	3.70	224513331	3947.454 ug/ml

93% ✓
MT

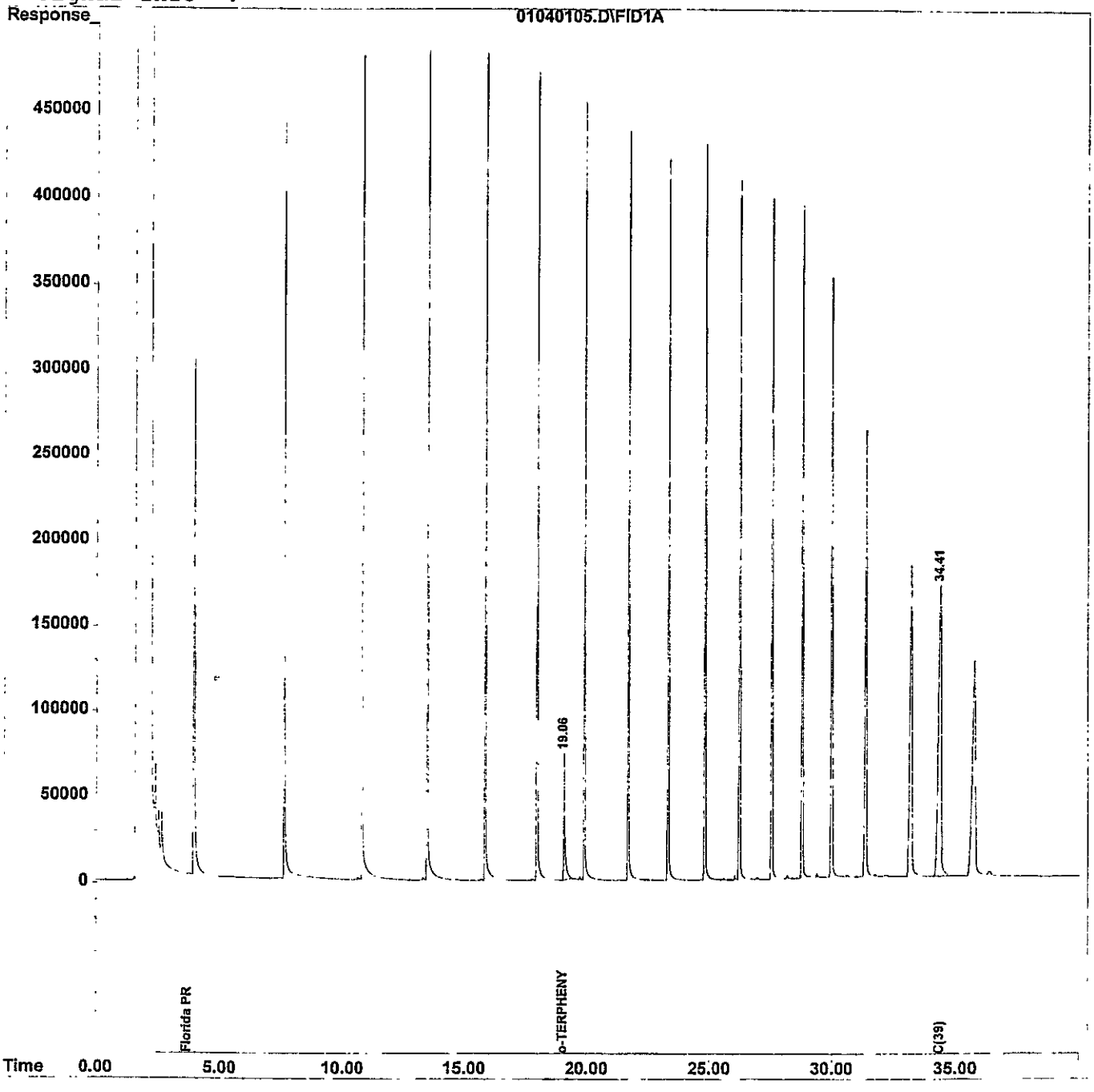
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\2\DATA\010401\01040105.D Vial: 5
Acq On : 4 Jan 2001 14:03 Operator: MT
Sample : 4250 PHS PRO CCV Inst : DRO-B
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Jan 4 15:53 2001 Quant Results File: PRO1208.RES

Quant Method : C:\HPCHEM\2\METHODS\PRO1208.M (Chemstation Integrator)
Title : FLORIDA PRO BY GC; INST. #2
Last Update : Tue Jan 02 11:40:23 2001
Response via : Multiple Level Calibration
DataAcq Meth : PRO1208.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\010401\01040101.D Vial: 1
Acq On : 4 Jan 2001 10:46 Operator: MT
Sample : 4250 PHS PRO CCV Inst : DRO-B
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Jan 4 11:38 2001 Quant Results File: PRO1208.RES

Quant Method : C:\HPCHEM\2\METHODS\PRO1208.M (Chemstation Integrator)
Title : FLORIDA PRO BY GC; INST. #2
Last Update : Tue Jan 02 11:40:23 2001
Response via : Initial Calibration
DataAcq Meth : PRO1208.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) SC o-TERPHENYL	19.15	2816878	61.007 ug/mlm
Spiked Amount 50.000	Recovery =		122.01% ✓MT
3) SC C(39)	34.56	13966684	317.926 ug/mlm
Spiked Amount 300.000	Recovery =		105.98% ✓MT
Target Compounds			
1) HM Florida PRO	3.70	230794632	4057.893 ug/ml

95% ✓
MT

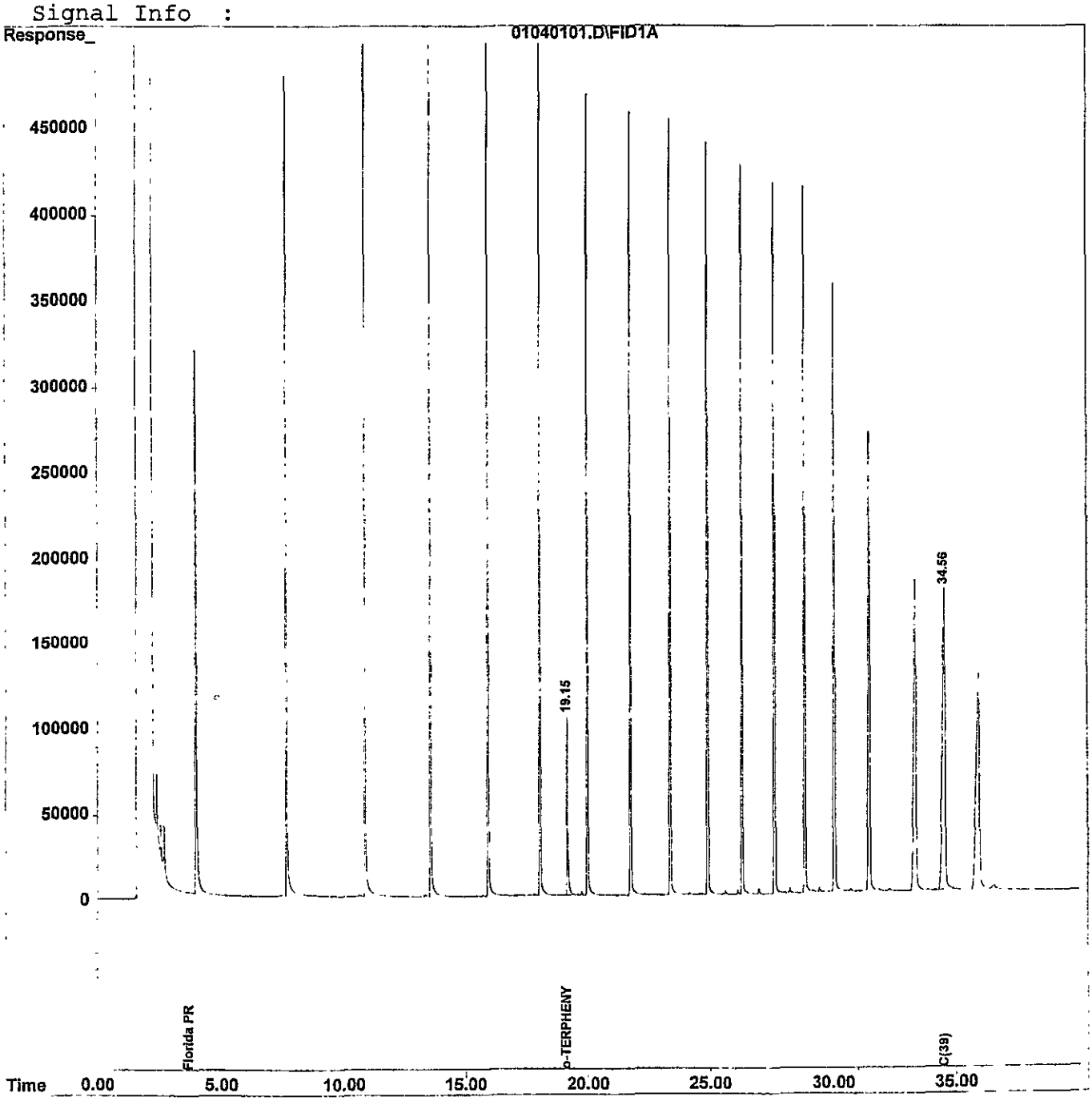
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\2\DATA\010401\01040101.D Vial: 1
Acq On : 4 Jan 2001 10:46 Operator: MT
Sample : 4250 PHS PRO CCV Inst : DRO-B
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Jan 4 11:38 2001 Quant Results File: PRO1208.RES

Quant Method : C:\HPCHEM\2\METHODS\PRO1208.M (Chemstation Integrator)
Title : FLORIDA PRO BY GC; INST. #2
Last Update : Tue Jan 02 11:40:23 2001
Response via : Multiple Level Calibration
DataAcq Meth : PRO1208.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\010301\01030112.D Vial: 12
Acq On : 3 Jan 2001 21:54 Operator: MT
Sample : 4250 PHS PRO CCV Inst : DRO-B
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Jan 4 10:15 2001 Quant Results File: PRO1208.RES

Quant Method : C:\HPCHEM\2\METHODS\PRO1208.M (Chemstation Integrator)
Title : FLORIDA PRO BY GC; INST. #2
Last Update : Tue Jan 02 11:40:23 2001
Response via : Initial Calibration
DataAcq Meth : PRO1208.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) SC o-TERPHENYL	19.11	2518212	54.539 ug/mlm
Spiked Amount 50.000	Recovery =		109.08% MT
3) SC C(39)	34.52	13592588	309.410 ug/mlm
Spiked Amount 300.000	Recovery =		103.14% MT
Target Compounds			
1) HM Florida PRO	3.70	232654753	4090.598 ug/ml

96% MT

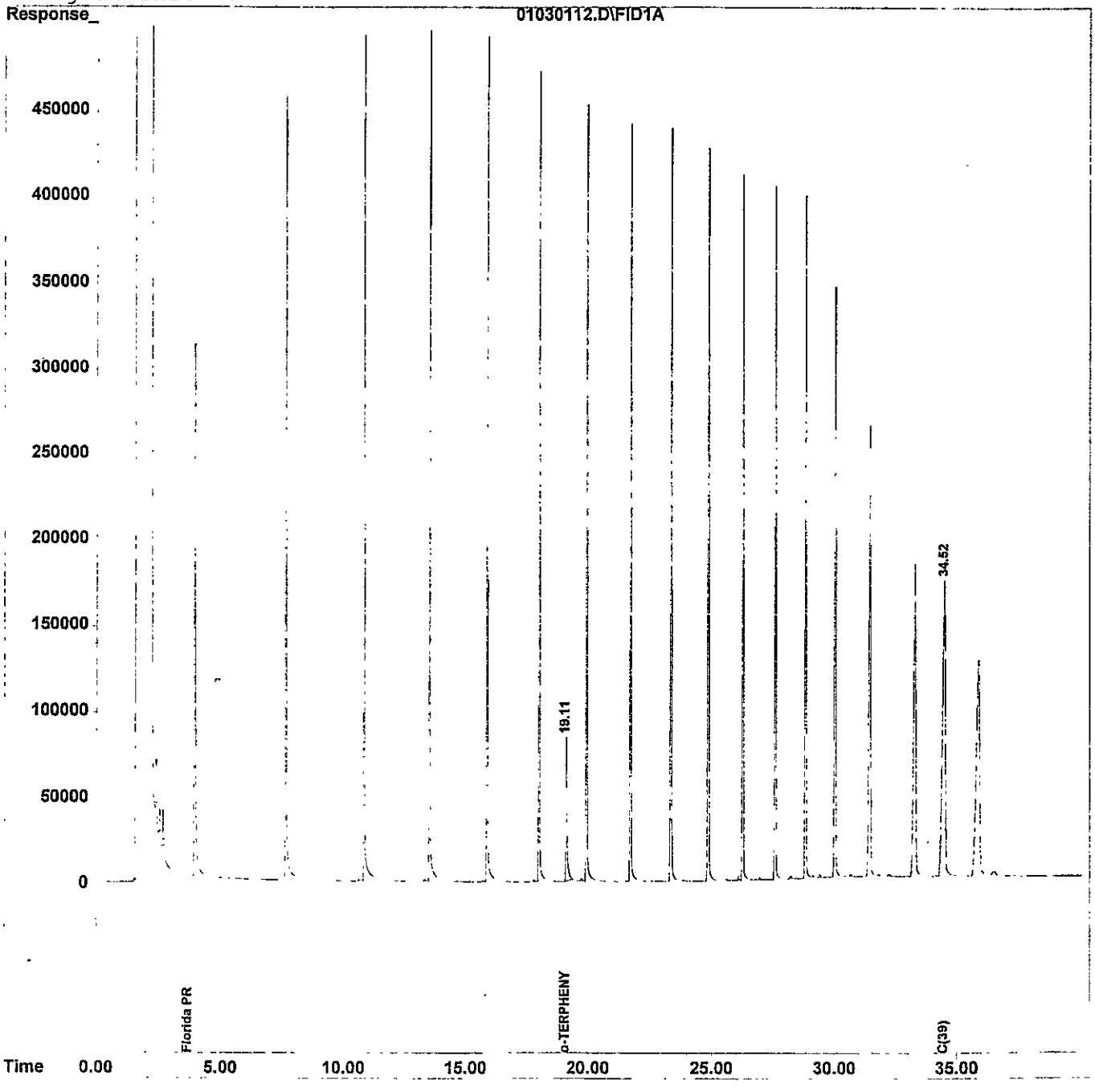
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\2\DATA\010301\01030112.D Vial: 12
Acq On : 3 Jan 2001 21:54 Operator: MT
Sample : 4250 PHS PRO CCV Inst : DRO-B
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Jan 4 10:15 2001 Quant Results File: PRO1208.RES

Quant Method : C:\HPCHEM\2\METHODS\PRO1208.M (Chemstation Integrator)
Title : FLORIDA PRO BY GC; INST. #2
Last Update : Tue Jan 02 11:40:23 2001
Response via : Multiple Level Calibration
DataAcq Meth : PRO1208.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\010301\01030101.D Vial: 1
Acq On : 3 Jan 2001 12:24 Operator: MT
Sample : 4250 PHS PRO CCV Inst : DRO-B
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Jan 3 13:23 2001 Quant Results File: PRO1208.RES

Quant Method : C:\HPCHEM\2\METHODS\PRO1208.M (Chemstation Integrator)
Title : FLORIDA PRO BY GC; INST. #2
Last Update : Tue Jan 02 11:40:23 2001
Response via : Initial Calibration
DataAcq Meth : PRO1208.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) SC o-TERPHENYL	19.12	2709531	58.682 ug/mlm
Spiked Amount 50.000	Recovery =		117.36% ✓MT
3) SC C(39)	34.54	14637432	333.194 ug/mlm
Spiked Amount 300.000	Recovery =		111.06% ✓MT
Target Compounds			
1) HM Florida PRO	3.70	248213485	4364.156 ug/ml

(1039.) ✓
MT

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

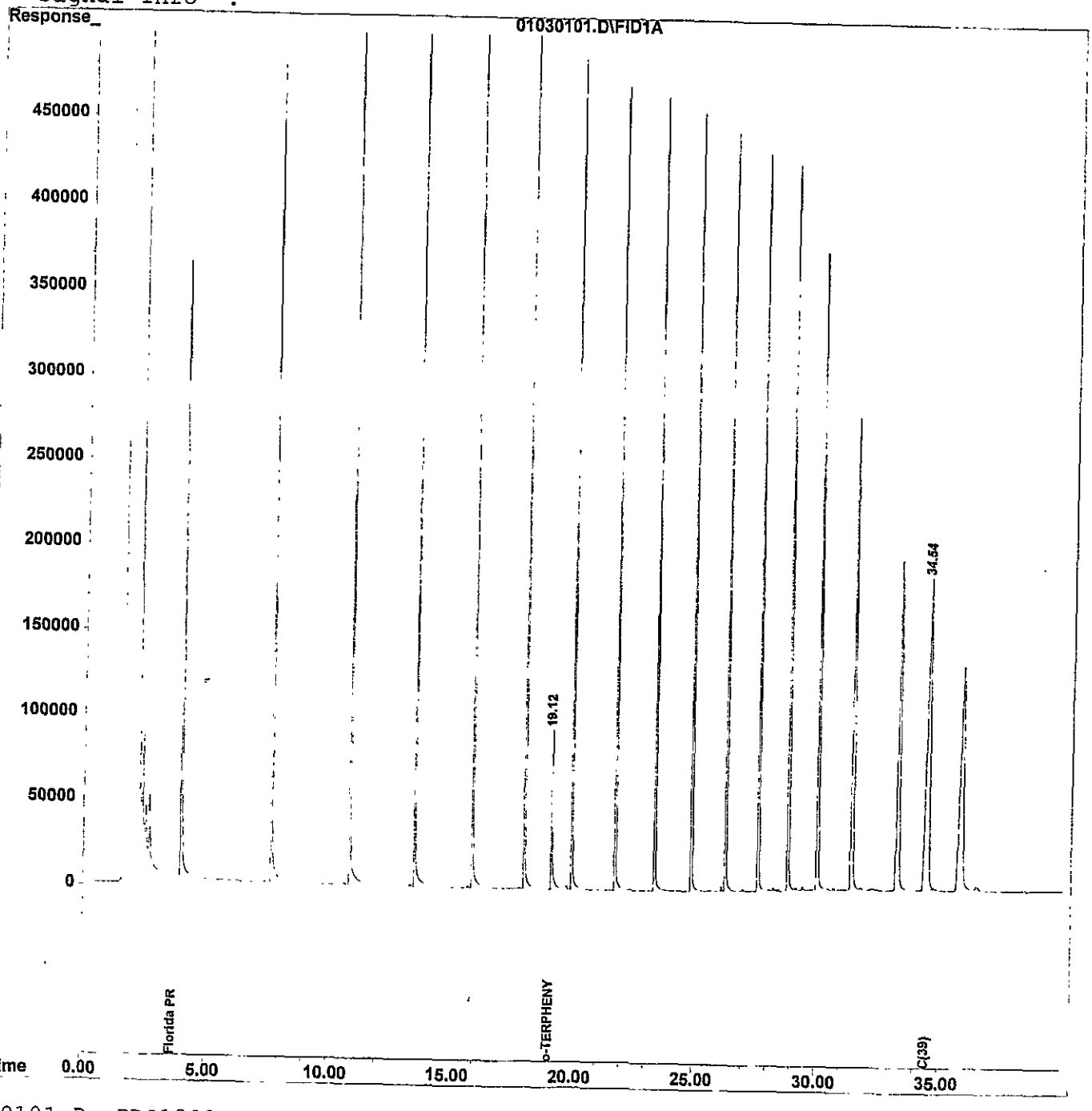
Quantitation Report

Data File : C:\HPCHEM\2\DATA\010301\01030101.D
Acq On : 3 Jan 2001 12:24
Sample : 4250 PHS PRO CCV
Misc :
IntFile : events.e
Quant Time: Jan 3 13:23 2001 Quant Results File: PRO1208.RES

Vial: 1
Operator: MT
Inst : DRO-B
Multiplr: 1.00

Quant Method : C:\HPCHEM\2\METHODS\PRO1208.M (Chemstation Integrator)
Title : FLORIDA PRO BY GC; INST. #2
Last Update : Tue Jan 02 11:40:23 2001
Response via : Multiple Level Calibration
DataAcq Meth : PRO1208.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\010201\01020118.D Vial: 13
Acq On : 3 Jan 2001 1:09 Operator: MT
Sample : 4250 PHS PRO CCV Inst : DRO-B
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Jan 3 11:10 2001 Quant Results File: PRO1208.RES

Quant Method : C:\HPCHEM\2\METHODS\PRO1208.M (Chemstation Integrator)
Title : FLORIDA PRO BY GC; INST. #2
Last Update : Tue Jan 02 11:40:23 2001
Response via : Initial Calibration
DataAcq Meth : PRO1208.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) SC o-TERPHENYL	19.12	2492388	53.979 ug/mlm
Spiked Amount 50.000	Recovery =		107.96% MT
3) SC C(39)	34.55	13230033	301.157 ug/mlm
Spiked Amount 300.000	Recovery =		100.39% MT
Target Compounds			
1) HM Florida PRO	3.70	224086525	3939.950 ug/ml

93% ✓
MT

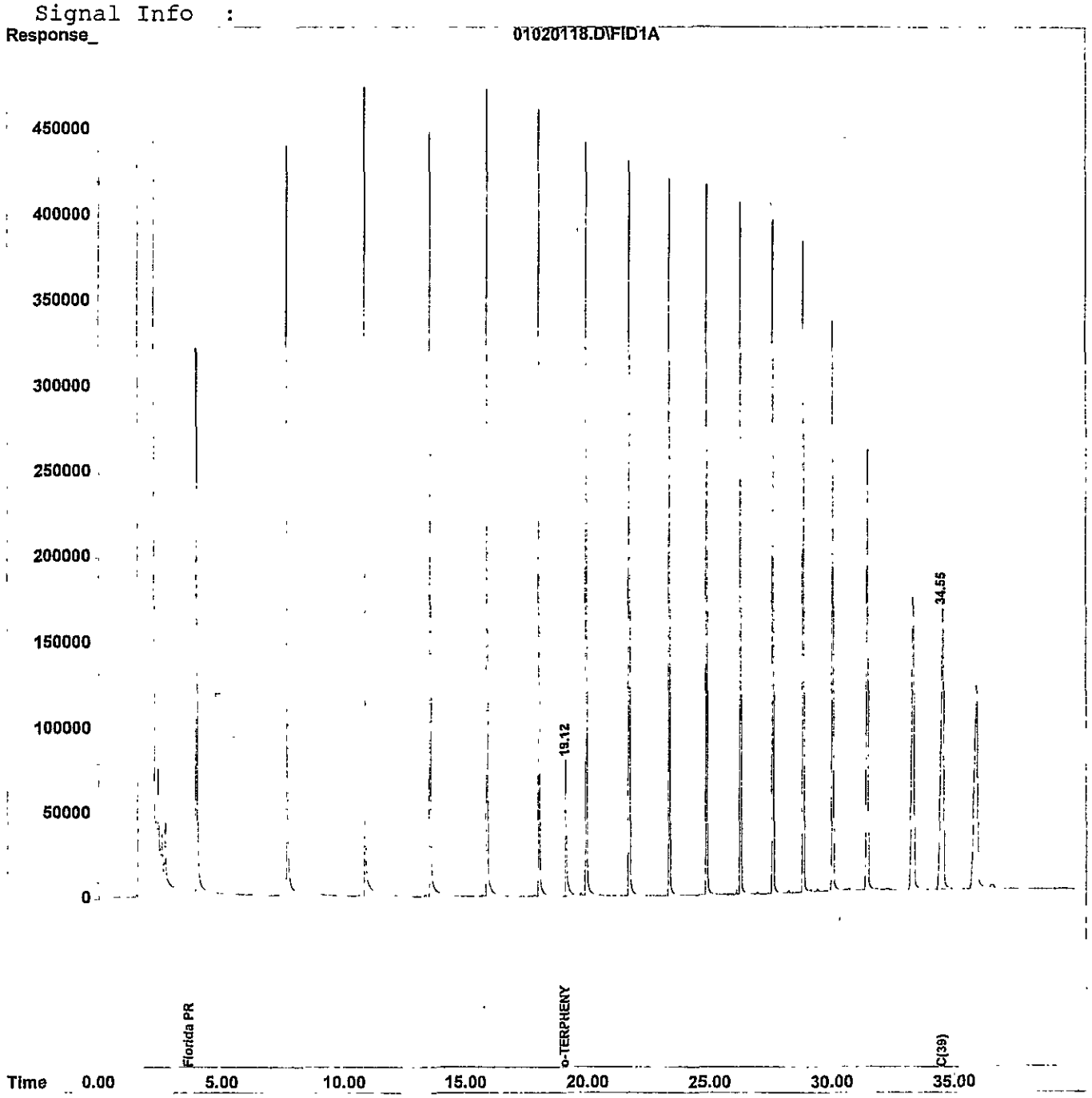
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\2\DATA\010201\01020118.D Vial: 13
Acq On : 3 Jan 2001 1:09 Operator: MT
Sample : 4250 PHS PRO CCV Inst : DRO-B
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Jan 3 11:10 2001 Quant Results File: PRO1208.RES

Quant Method : C:\HPCHEM\2\METHODS\PRO1208.M (Chemstation Integrator)
Title : FLORIDA PRO BY GC; INST. #2
Last Update : Tue Jan 02 11:40:23 2001
Response via : Multiple Level Calibration
DataAcq Meth : PRO1208.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\010201\01020113.D Vial: 13
Acq On : 2 Jan 2001 21:06 Operator: MT
Sample : 4250 PHS PRO CCV Inst : DRO-B
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Jan 3 11:07 2001 Quant Results File: PRO1208.RES

Quant Method : C:\HPCHEM\2\METHODS\PRO1208.M (Chemstation Integrator)
Title : FLORIDA PRO BY GC; INST. #2
Last Update : Tue Jan 02 11:40:23 2001
Response via : Initial Calibration
DataAcq Meth : PRO1208.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) SC o-TERPHENYL	19.11	2652442	57.446 ug/mlm
Spiked Amount 50.000	Recovery =		114.89% ✓MT
3) SC C(39)	34.53	14183506	322.861 ug/mlm
Spiked Amount 300.000	Recovery =		107.62% ✓MT
Target Compounds			
1) HM Florida PRO	3.70	238184187	4187.819 ug/ml

99% ✓
MT

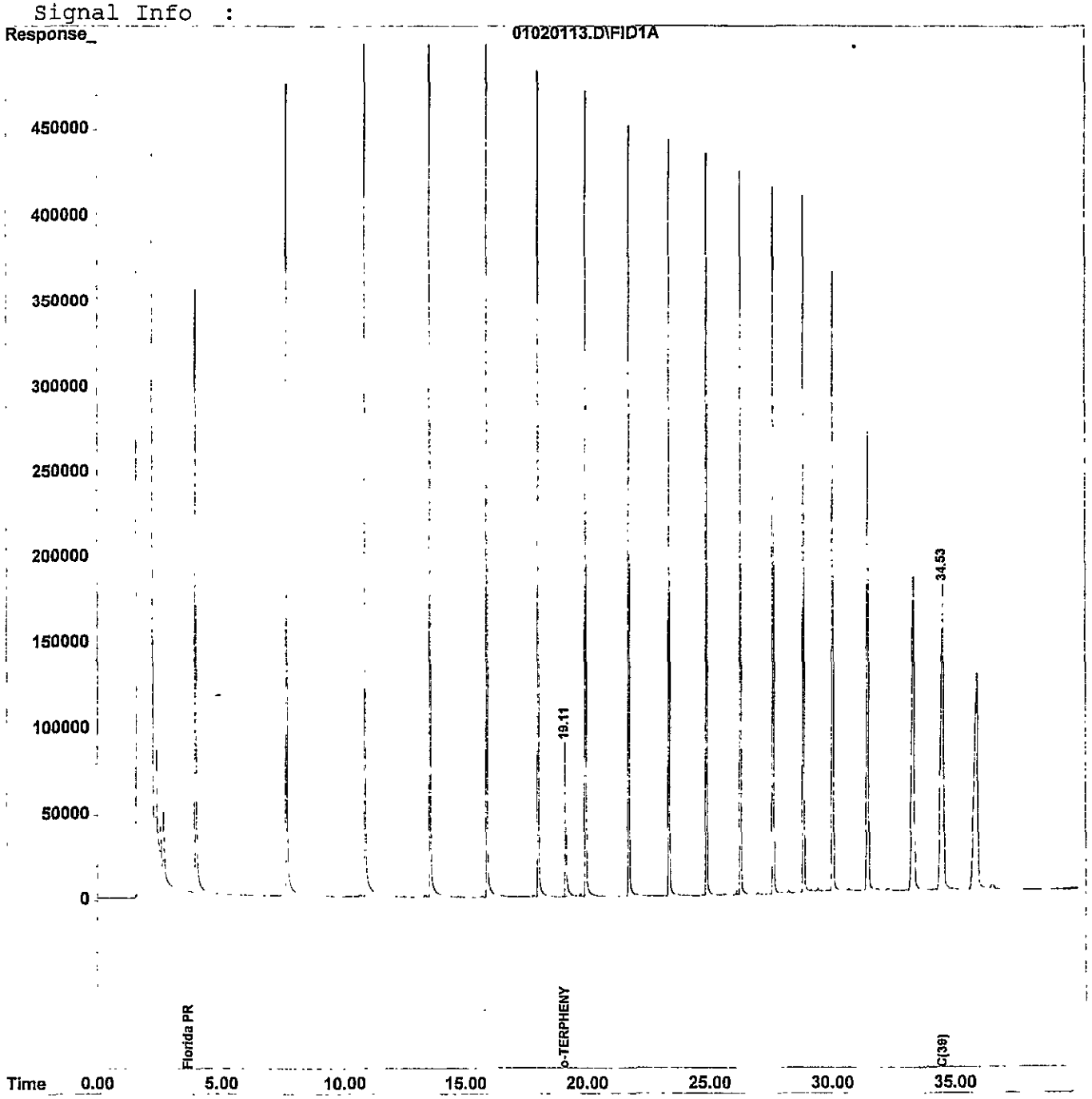
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\2\DATA\010201\01020113.D Vial: 13
Acq On : 2 Jan 2001 21:06 Operator: MT
Sample : 4250 PHS PRO CCV Inst : DRO-B
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Jan 3 11:07 2001 Quant Results File: PRO1208.RES

Quant Method : C:\HPCHEM\2\METHODS\PRO1208.M (Chemstation Integrator)
Title : FLORIDA PRO BY GC; INST. #2
Last Update : Tue Jan 02 11:40:23 2001
Response via : Multiple Level Calibration
DataAcq Meth : PRO1208.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\010201\01020101.D Vial: 1
Acq On : 2 Jan 2001 10:43 Operator: MT
Sample : 4250 PHS PRO CCV Inst : DRO-B
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Jan 2 11:40 2001 Quant Results File: PRO1208.RES

Quant Method : C:\HPCHEM\2\METHODS\PRO1208.M (Chemstation Integrator)
Title : FLORIDA PRO BY GC; INST. #2
Last Update : Tue Jan 02 11:40:23 2001
Response via : Initial Calibration
DataAcq Meth : PRO1208.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) SC o-TERPHENYL	19.12	2601174	56.335 ug/mlm
Spiked Amount 50.000	Recovery =		112.67% ✓MT
3) SC C(39)	34.53	14445558	328.826 ug/mlm
Spiked Amount 300.000	Recovery =		109.61% ✓MT
Target Compounds			
1) HM Florida PRO	3.70	240064282	4220.875 ug/ml

99% ✓
MT

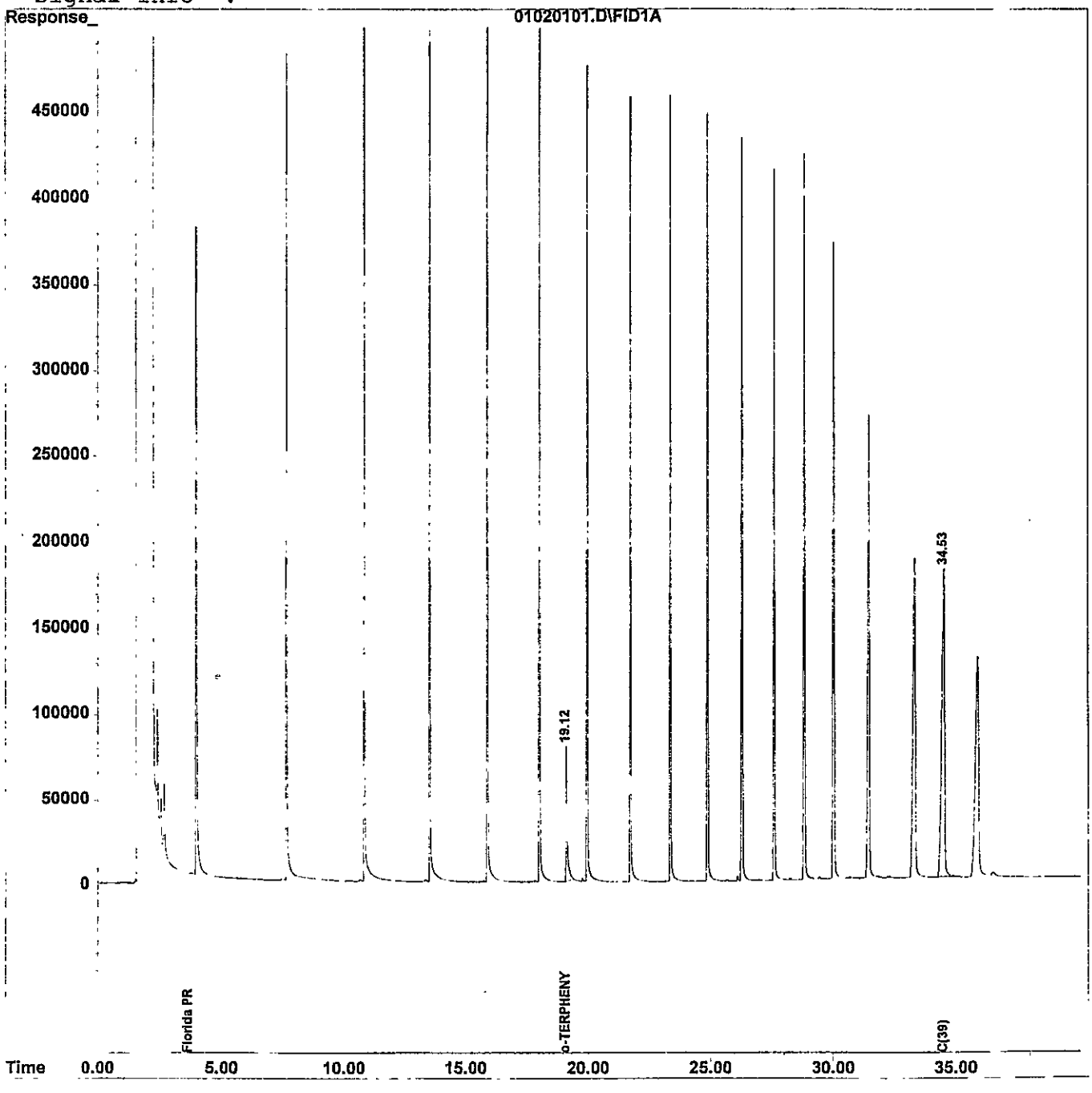
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\2\DATA\010201\01020101.D Vial: 1
Acq On : 2 Jan 2001 10:43 Operator: MT
Sample : 4250 PHS PRO CCV Inst : DRO-B
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Jan 2 11:40 2001 Quant Results File: PRO1208.RES

Quant Method : C:\HPCHEM\2\METHODS\PRO1208.M (Chemstation Integrator)
Title : FLORIDA PRO BY GC; INST. #2
Last Update : Tue Jan 02 11:40:23 2001
Response via : Multiple Level Calibration
DataAcq Meth : PRO1208.M

Volume Inj. :
Signal Phase :
Signal Info :



Accura Analytical Laboratory, Inc.

MS/MSD Report

Sample ID:	AC05540 MS/MSD	**Date Acquired:**	1/3/01
Operator:	MT	**Instrument ID:**	DRO-B
Data File:	01030103+04	**Vial #**	3+4
Method:	FL PRO	**Matrix:**	Water

Compound	Expected Rec. (ppm)	MS Rec. (ppm)	MS % Recovery	MSD Rec. (ppm)	MSD % Recovery	Recovery Limits (%)	MS Pass/ Fail	MSD Pass/ Fail	%RPD	%RPD Limit	%RPD Pass/ Fail
PRO	4.25	0.728	17%	2.289	54%	41 - 101	Fail	Pass	103%	< 20	Fail

Surrogates	Expected Rec. (ppm)	MS Rec. (ppm)	MS % Recovery	MSD Rec. (ppm)	MSD % Recovery	Recovery Limits (%)*	MS Pass/ Fail	MSD Pass/ Fail
O-Terphenyl	50	18.57	37%	21.44	43%	82 - 142	Fail	Fail
C(39)	300	15.96	5%	4.12	1%	42 - 193	Fail	Fail

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\010301\01030103.D Vial: 3
Acq On : 3 Jan 2001 14:34 Operator: MT
Sample : AC05540 MS 5X Inst : DRO-B
Misc : 26563 1000mL Multiplr: 1.00
IntFile : events.e
Quant Time: Jan 4 10:09 2001 Quant Results File: PRO1208.RES

Quant Method : C:\HPCHEM\2\METHODS\PRO1208.M (Chemstation Integrator)
Title : FLORIDA PRO BY GC; INST. #2
Last Update : Tue Jan 02 11:40:23 2001
Response via : Initial Calibration
DataAcq Meth : PRO1208.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) SC o-TERPHENYL	19.11	171494	3.714 ug/mlm
Spiked Amount 50.000	Recovery =		7.43% x 5 = 37 x MT
3) SC C(39)	34.39	140243	3.192 ug/mlm
Spiked Amount 300.000	Recovery =		1.06% x 5 = 5.3 x MT
Target Compounds			
1) HM Florida PRO	3.70	180362726	3171.186 ug/ml

~~10~~ MT 1.04.00

3025.585 / 145.601 / 1000 =

0.146 x 5 =

0.728 / 4.25 x 100 % =

17%

MT

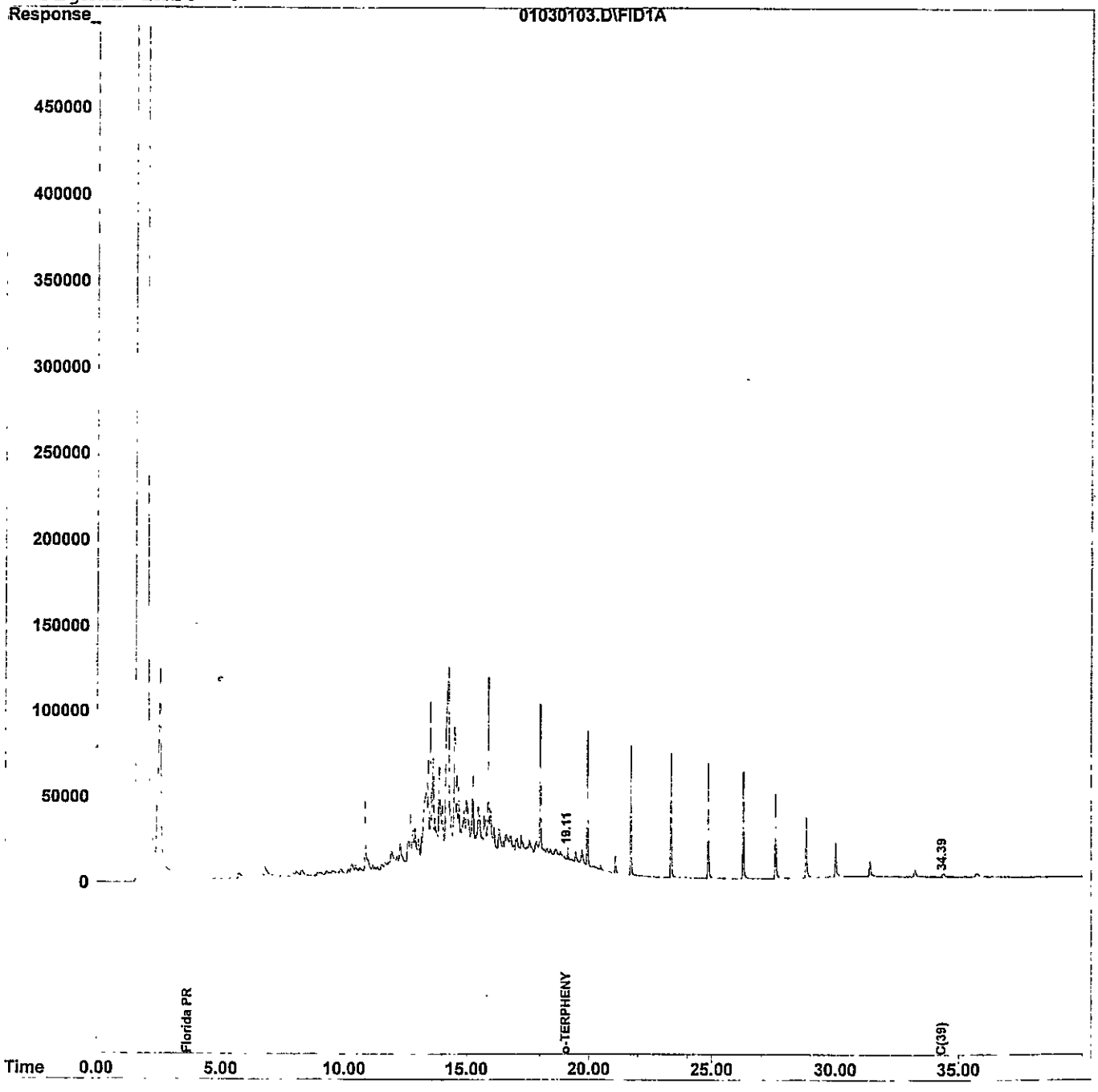
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\2\DATA\010301\01030103.D Vial: 3
Acq On : 3 Jan 2001 14:34 Operator: MT
Sample : AC05540 MS 5X Inst : DRO-B
Misc : 26563 1000mL Multiplr: 1.00
IntFile : events.e
Quant Time: Jan 4 10:09 2001 Quant Results File: PRO1208.RES

Quant Method : C:\HPCHEM\2\METHODS\PRO1208.M (Chemstation Integrator)
Title : FLORIDA PRO BY GC; INST. #2
Last Update : Tue Jan 02 11:40:23 2001
Response via : Multiple Level Calibration
DataAcq Meth : PRO1208.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\010301\01030104.D Vial: 4
Acq On : 3 Jan 2001 15:23 Operator: MT
Sample : AC05540 MSD 5X Inst : DRO-B
Misc : 26563 1000mL Multiplr: 1.00
IntFile : events.e
Quant Time: Jan 4 10:09 2001 Quant Results File: PRO1208.RES

Quant Method : C:\HPCHEM\2\METHODS\PRO1208.M (Chemstation Integrator)
Title : FLORIDA PRO BY GC; INST. #2
Last Update : Tue Jan 02 11:40:23 2001
Response via : Initial Calibration
DataAcq Meth : PRO1208.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) SC o-TERPHENYL	19.08	197996	4.288 ug/mlm
Spiked Amount 50.000	Recovery =		8.58% x 5 = 43 x MT
3) SC C(39)	34.35	36210	0.824 ug/mlm
Spiked Amount 300.000	Recovery =		0.27% x 5 = 1.4 x MT
Target Compounds			
1) HM Florida PRO	3.70	198096693	3482.989 ug/ml

- 3025.585

457.989 /1000 =

0.458 x 5 =

2.289 /4.25 x 100% =

54%

MT

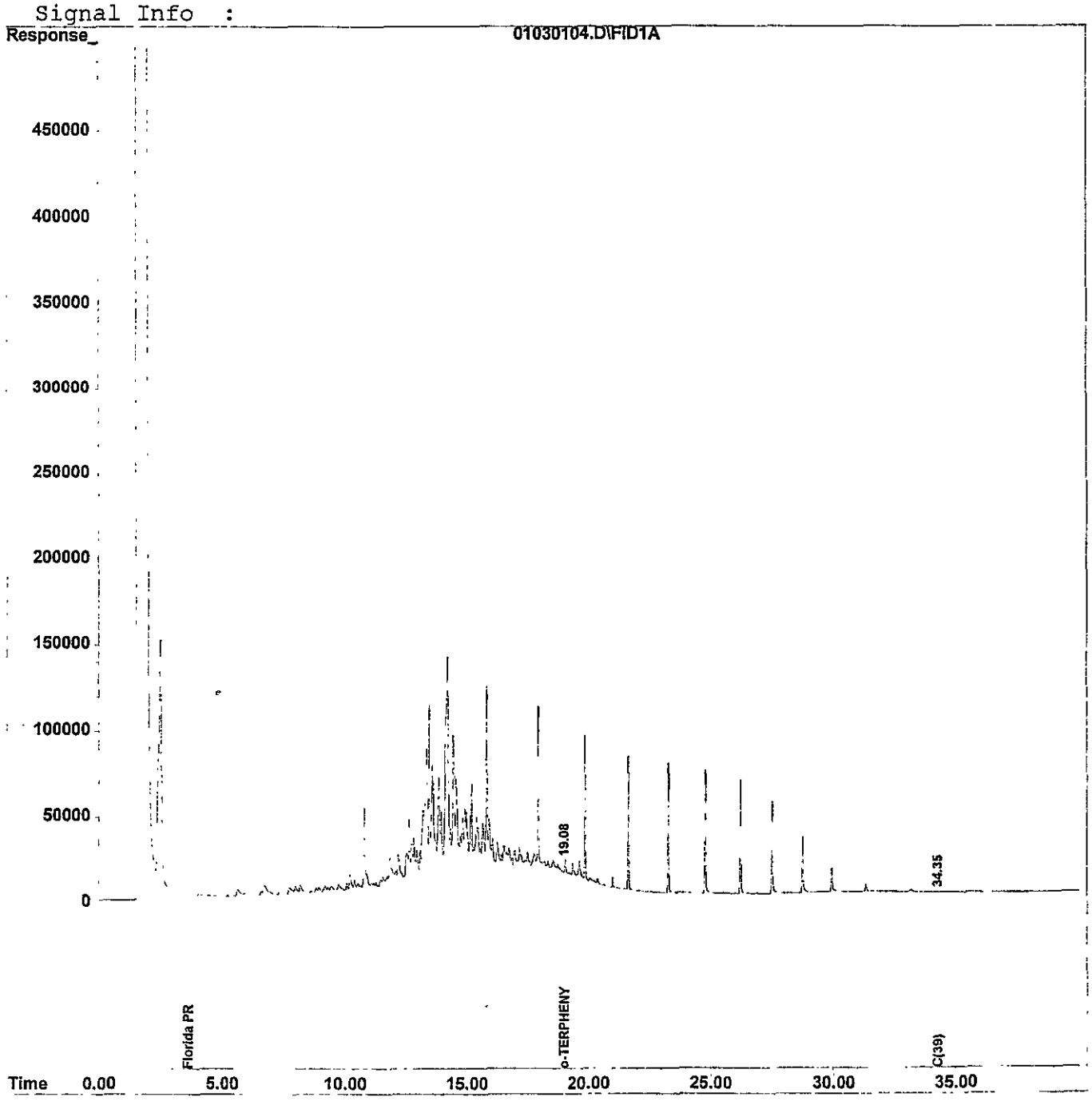
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\2\DATA\010301\01030104.D Vial: 4
Acq On : 3 Jan 2001 15:23 Operator: MT
Sample : AC05540 MSD 5X Inst : DRO-B
Misc : 26563 1000mL Multiplr: 1.00
IntFile : events.e
Quant Time: Jan 4 10:09 2001 Quant Results File: PRO1208.RES

Quant Method : C:\HPCHEM\2\METHODS\PRO1208.M (Chemstation Integrator)
Title : FLORIDA PRO BY GC; INST. #2
Last Update : Tue Jan 02 11:40:23 2001
Response via : Multiple Level Calibration
DataAcq Meth : PRO1208.M

Volume Inj. :
Signal Phase :
Signal Info :



Accura Analytical Laboratory, Inc.

LCS Report

Sample ID:	QFW1226002	**Date Acquired:**	1/4/01
Operator:	MT	**Instrument ID:**	DRO-B
Data File:	01040104	**AS POS.#**	4
Method:	FLPRO	**Matrix:**	WATER

Compound	Expected Rec. (ppm)	Actual Rec. (ppm)	Percent Recovery	Recovery Limits (%)	Pass/ Fail
PRO	4.25	2.061	48 %	55 - 118	Fail

Surrogates	Expected Rec. (ppm)	Actual Rec. (ppm)	Percent Recovery	Recovery Limits (%)	Pass/ Fail
ortho-terphenyl	50	37.65	75%	82 - 142	Fail
C(39)	300	5.88	2%	42 - 193	Fail

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\010401\01040104.D Vial: 4
Acq On : 4 Jan 2001 13:13 Operator: MT
Sample : QFW1226002 Inst : DRO-B
Misc : PROW LCS Multiplr: 1.00
IntFile : events.e
Quant Time: Jan 4 14:28 2001 Quant Results File: PRO1208.RES

Quant Method : C:\HPCHEM\2\METHODS\PRO1208.M (Chemstation Integrator)
Title : FLORIDA PRO BY GC; INST. #2
Last Update : Tue Jan 02 11:40:23 2001
Response via : Initial Calibration
DataAcq Meth : PRO1208.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) SC o-TERPHENYL	19.07	1738247	37.646 ug/mlm
Spiked Amount 50.000	Recovery =		75.29% X MT
3) SC C(39)	34.30	258437	5.883 ug/mlm
Spiked Amount 300.000	Recovery =		1.96% X MT
Target Compounds			
1) HM Florida PRO	3.70	117227422	2061.124 ug/ml / 1000 =

2.061 / 4.25 x 100% =

48% X

MT

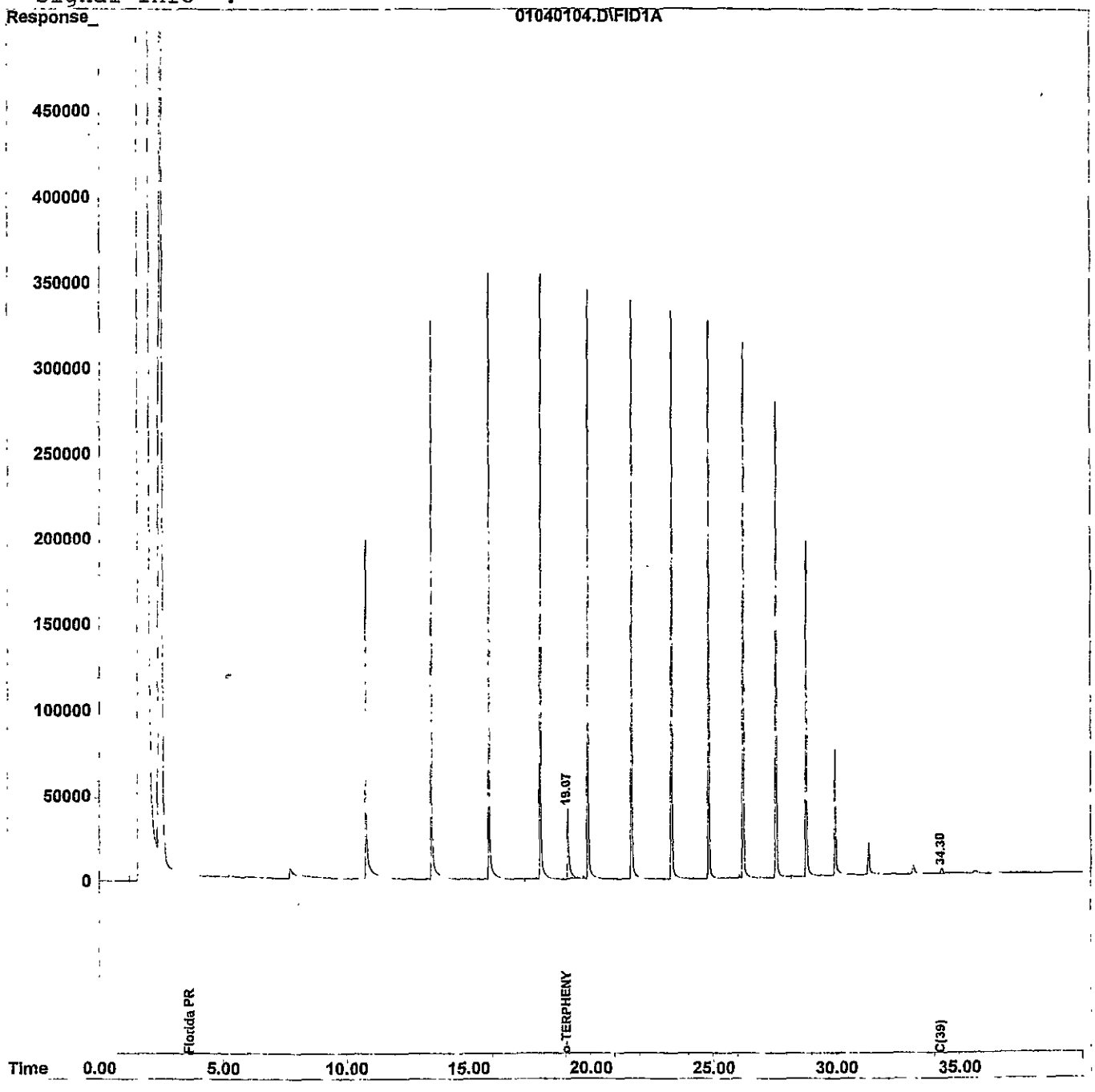
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\2\DATA\010401\01040104.D Vial: 4
Acq On : 4 Jan 2001 13:13 Operator: MT
Sample : QFW1226002 Inst : DRO-B
Misc : PROW LCS Multiplr: 1.00
IntFile : events.e
Quant Time: Jan 4 14:28 2001 Quant Results File: PRO1208.RES

Quant Method : C:\HPCHEM\2\METHODS\PRO1208.M (Chemstation Integrator)
Title : FLORIDA PRO BY GC; INST. #2
Last Update : Tue Jan 02 11:40:23 2001
Response via : Multiple Level Calibration
DataAcq Meth : PRO1208.M

Volume Inj. :
Signal Phase :
Signal Info :



SVO GC CALIBRATION CHECKLIST
FL-PRO

DATE / INSTRUMENT: 12-08-00 / DRO-B	METHOD: FL-PRO
MATRIX: Soil / Water	

Are all standards within expiration dates for both stock and serial standards?	(Y)	N	NA
Is the Initial Calibration compliant with the method specifications?	(Y)	N	NA
Were daily retention time windows updated?	(Y)	N	NA
Is the runlog completely filled out (including review signature/date)?	(Y)	N	NA
Are all mistakes single lined, initialled, and dated?	(Y)	N	NA

Analyst: MT		Reviewer: YGK	
Date: 12-11-00	Time: 18:15	Date: 12/20/00	Time: 10:50

Sequence Date: 12-08-00
Analyst Initials: MT
Run Method: PRO0901
Quant Method: ↓

	Sample	Blank/LCS
Water OTP/C(39) Limits	82-142 | 42-193	82-142 | 42-193
Soil OTP/C(39) Limits	62-109 | 60-118	62-109 | 60-118

Compound: FL PRO
Date: 9-01-00

Vial Position	AAL Sample I.D. #	Extraction Date	Matrix	Dilution Factor	OTP/C(39) Recovery	PRO Spike Recovery	AAL Std. I.D. #	Status	Comments
1	Solv Blank	NA	$MeCl_2$	1X	NA | NA	NA		✓	
2	850 PHS PRO ICAL	↓	Std.	↓	↓	↓	005V226	✓	
3	2550		↓				005V227	✓	
4	4250						005V228	✓	
5	5950						005V229	✓	
6	~~7692~~ ~~8500~~ MT 12-12-00		↓				005V230	✓	
7	Solv Blank		$MeCl_2$		↓	↓		✓	
8	4250 PHS PRO ICV	↓	Std.		MT 12-12-00 8782 | MT 12-12-00 8570	MT 12-12-00 114 82	005V231	✓	
9	QFW1205001	12-05-00	W		101 | 5.1	NA		✓	<½RDL
10	QFW1205002				88 | 5.1	63		✓	
11	04004 MS				75 | 3.4	60		✓	
12	04004 MSD				85 | 4.7	60		✓	
13	03938				93 | 14	NA		✓	
14	04002				84 | 7.1	↓		✓	
15	04003				65 | 5.1			✓	
16	04004				74 | 6.1			✓	
17	04005				66 | 3.2			✓	
18	04006	↓	↓		72 | 8.0	↓		✓	
19	4250 PHS PRO CCV	NA	Std.		79 | 87	79	005V231	✓	
20	Solv Blank	↓	$MeCl_2$		NA | NA	NA		✓	
21	04007	12-05-00	W		37 | 6.1	↓		✓	
22	04008	↓	↓	↓	89 | 10	↓		✓	

Initials / Date: MT 12-11-00

ACCURA ANALYTICAL LABORATORY, INC.

Environmental Analytical Services

Standard Name: FL PRO ICAL
Lab Standard ID# 00SV226-00SV230

Date Made: 12-08-00
Expire Date: 6-08-01
Matrix: $MeCl_2$

Prepared By: MT

Standard	Lot\Lab ID#	Conc.	Amount Used	Final Conc.
FL TRPH Std.	500A117, 500A197, 500A198	500 ppm	100 µl	850 PHS
			300	2550
			500	4250
			700	5950
			1000	~~8500~~ 8477
OTP	500A073-2	10,000 ppm	5 µl added	50 ppm
C(39)	500A187	3000 ppm	100 µl added	300 ppm
$MeCl_2$	EX00114	—	*	—
* All	Stds. brought up to a final vol. = 1mL			
	MT 12-08-00			

Standard Name: FL PRO CCV
Lab Standard ID# 00SV231

Date Made: 12-08-00
Expire Date: 6-08-01
Matrix: $MeCl_2$

Prepared By: MT

Standard	Lot\Lab ID#	Conc.	Amount Used	Final Conc.
FL TRPH Std.	500A117	500 ppm	500 µl	4250 PHS
OTP	500A073-2	10,000	5	50 ppm
C(39)	500A092-8	3000	100	300 ppm
$MeCl_2$	EX00114	—	395	—
	MT 12-08-00			

000097

STPRLGFR.XLS

INITIAL CALIBRATION
5 POINT DRO

DATE:	12/8/00			
METHOD:	FL PRO			
INSTRUMENT:	DRO-B ; FRONT COLUMN			
ANALYST:	MT			
ICAL ID:	PRO1208			
CONCENTRATION (PPM)			**AREA**	**Rf**
850			62182797	73156.2
2550			138696300	54390.7
4250			225396394	53034.4
5950			320089278	53796.5
7692			384596146	49999.5
AVERAGE Rf:			56875.5	
% RSD:			16.3	

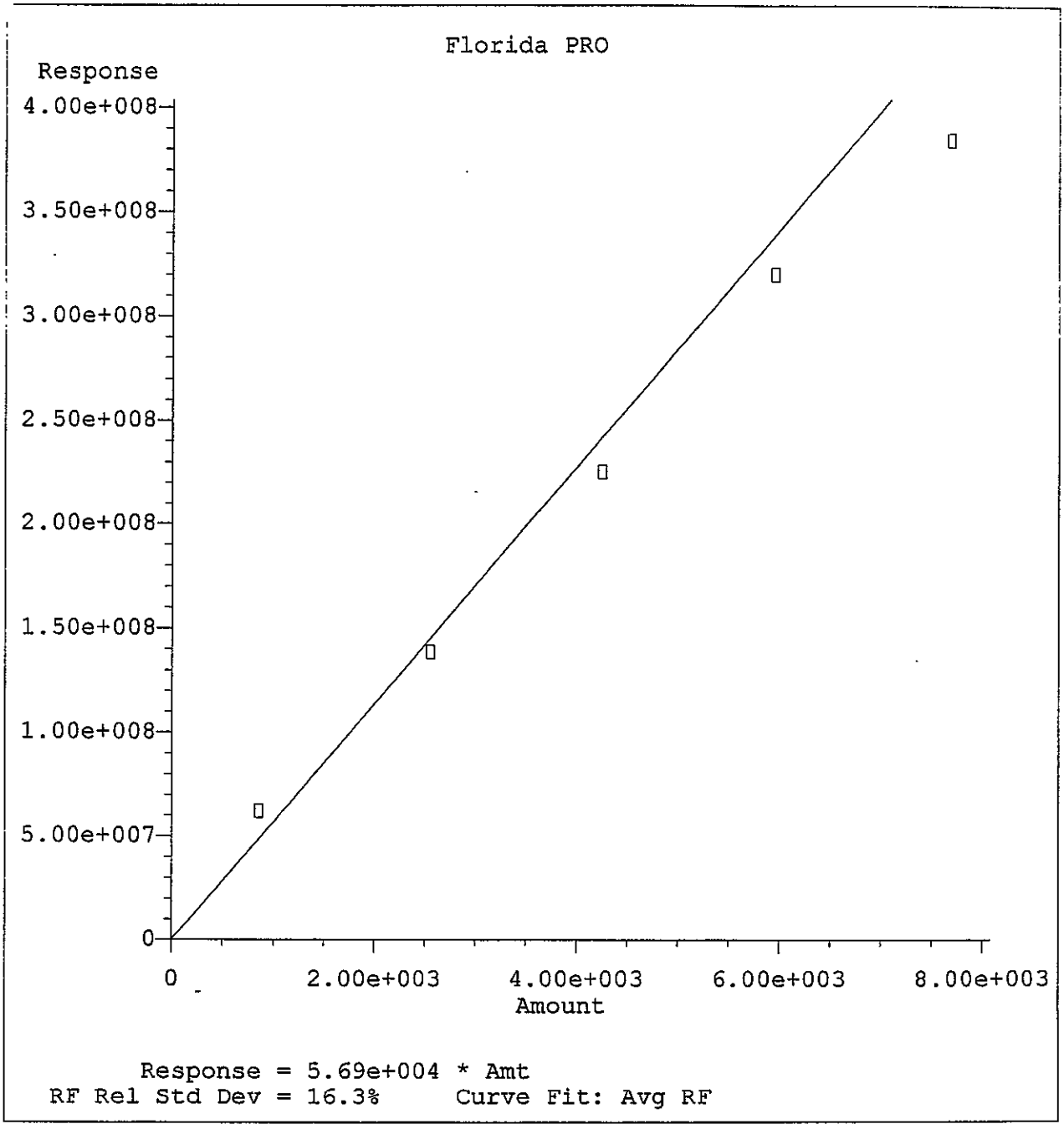
Response Factor Report DRO-B

Method : C:\HPCHEM\2\METHODS\PRO1208.M (Chemstation Integrator)
Title : FLORIDA PRO BY GC; INST. #2
Last Update : Mon Dec 11 16:05:37 2000

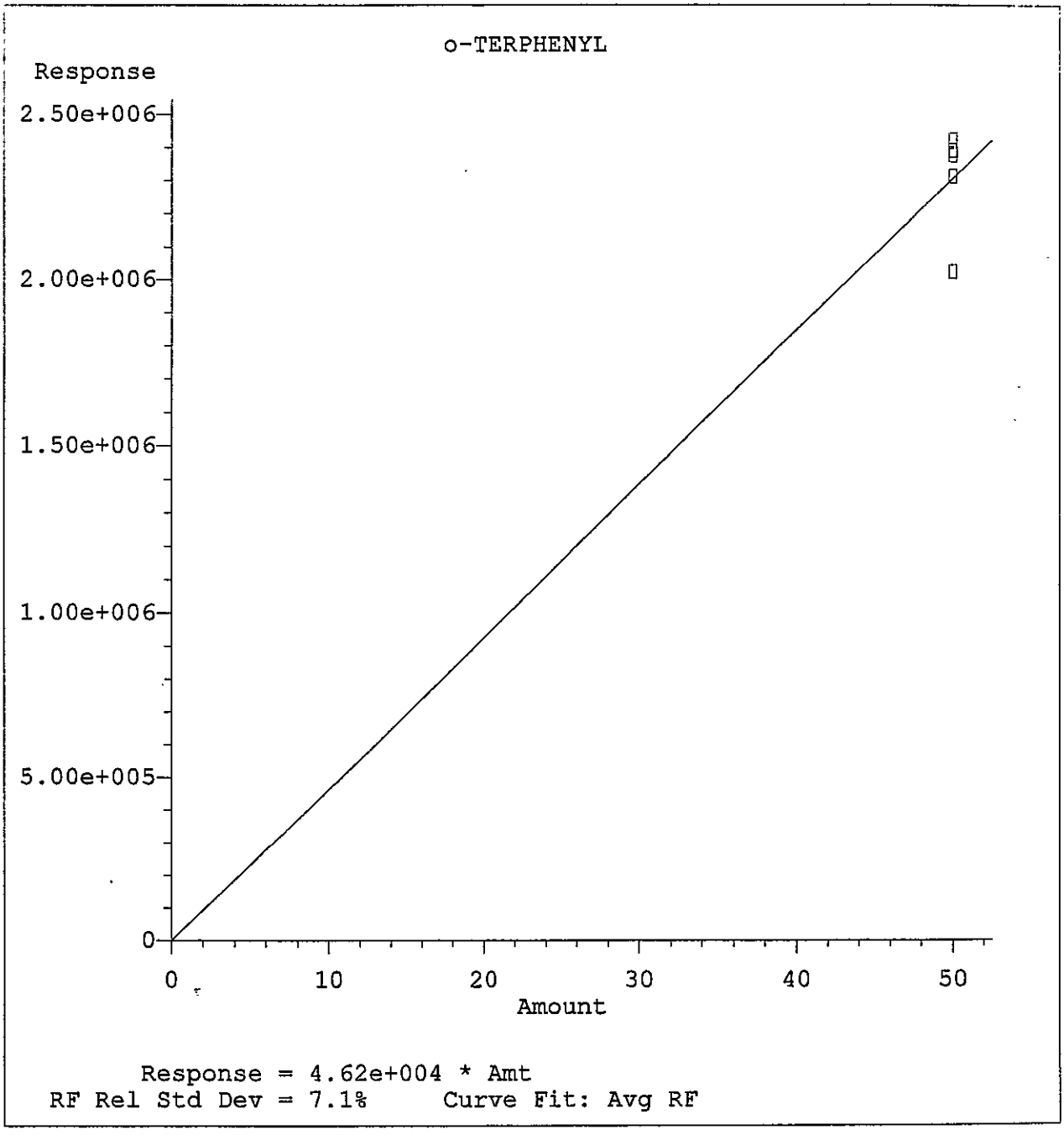
Calibration Files
1 =12080002.D 2 =12080003.D 3 =12080004.D
4 =12080005.D 5 =12080006.D

	Compound	1	2	3	4	5	Avg	%RSD
1) HM	Florida PRO	7.316	5.439	5.303	5.380	5.000	5.688 E4	16.28
2) SC	o-TERPHENYL	4.634	4.761	4.788	4.852	4.052	4.617 E4	7.06
3) SC	C(39)	4.379	4.697	4.519	4.375	3.995	4.393 E4	5.89

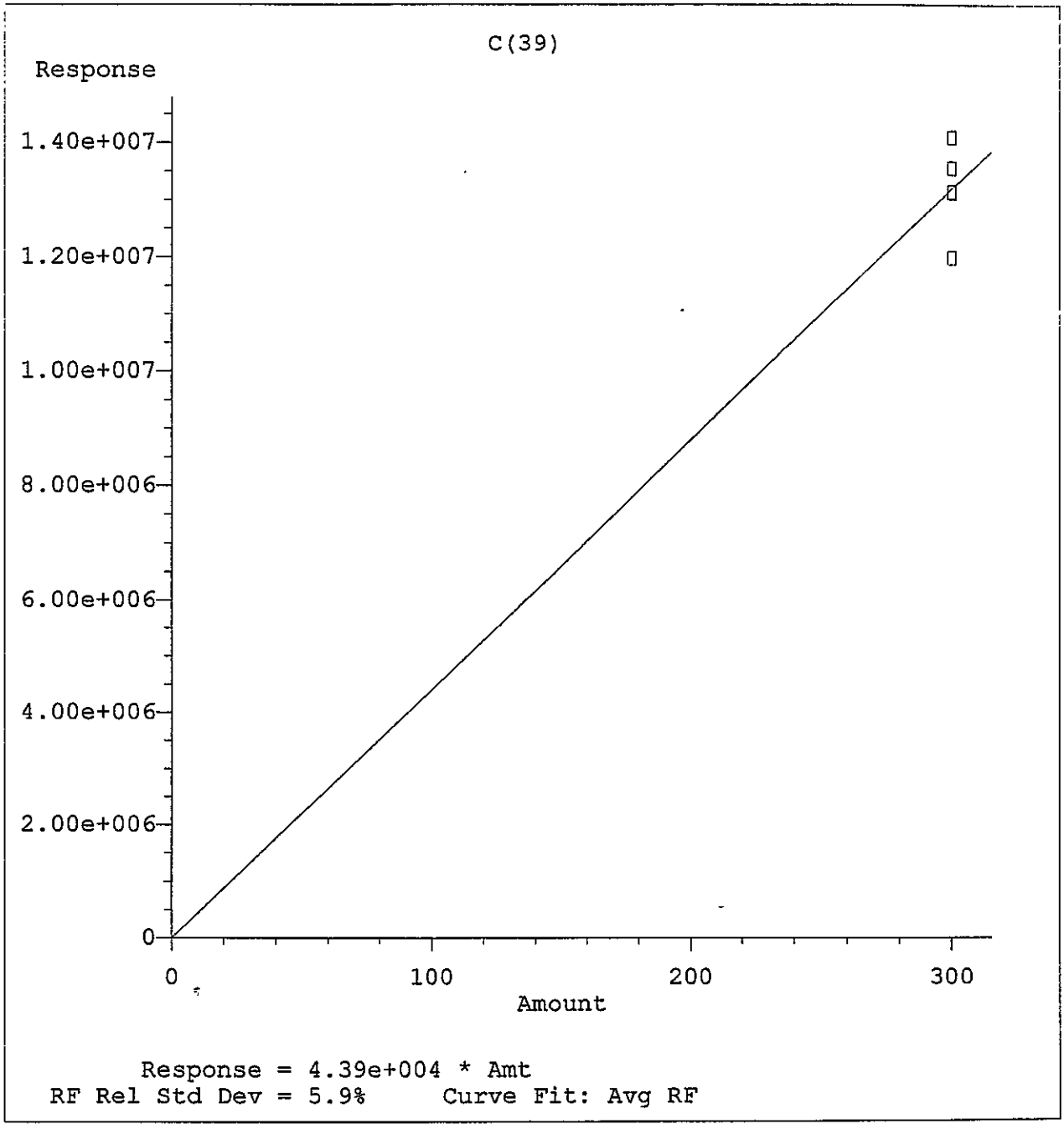
(#) = Out of Range



Method Name: C:\HPCHEM\2\METHODS\PRO1208.M
Calibration Table Last Updated: Mon Dec 18 12:09:37 2000



Method Name: C:\HPCHEM\2\METHODS\PRO1208.M
Calibration Table Last Updated: Fri Dec 08 17:06:58 2000



Method Name: C:\HPCHEM\2\METHODS\PRO1208.M
Calibration Table Last Updated: Fri Dec 08 17:06:58 2000

DATA ANALYSIS PARAMETERS

Method Name: C:\HPCHEM\2\METHODS\PRO1208.M

Percent Report Settings

Sort By: Signal

Output Destination
    Screen: No
    Printer: Yes
    File: No

Integration Events: AutoIntegrate

Generate Report During Run Method: No

Signal Correlation Window: 0.020

Quantitative Report Settings

Report Type: Summary

Output Destination
    Screen: No
    Printer: Yes
    File: No

Generate Report During Run Method: Yes

FLORIDA PRO BY GC; INST. #2
Calibration Last Updated: Mon Dec 11 16:05:37 2000

Reference Window: 2.00 Minutes
Non-Reference Window: 0.05 Minutes
Correlation Window: 0.10 minutes
Default Multiplier: 1.00
Default Sample Concentration: 0.00

Compound Information

---

1) Florida PRO ( )
Ret. Time 3.70 min., Extract & Integrate from 3.70 to 38.00 min.

Lvl	ID	Conc (ug/ml)	Response
1		850.000	62182797
2		2550.000	138696300
3		4250.000	225396394
4		5950.000	320089278
5		7692.000	384596146

Curve Fit: Avg. RF
---

2) o-TERPHENYL ( )
Ret. Time 19.24 min., Extract & Integrate from 19.14 to 19.34 min.

Lvl	ID	Conc (ug/ml)	Response
1		50.000	2316891
2		50.000	2380453
3		50.000	2394194
4		50.000	2425862
5		50.000	2025865

Curve Fit: Avg. RF
---

3) C(39) ( )
Ret. Time 34.72 min., Extract & Integrate from 34.22 to 35.22 min.

Lvl	ID	Conc (ug/ml)	Response
1		300.000	13137951
2		300.000	14092023
3		300.000	13556352
4		300.000	13125618
5		300.000	11984023

Curve Fit: Avg. RF

END OF DATA ANALYSIS PARAMETERS

Mon Dec 18 12:17:01 2000

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\120800\12080002.D Vial: 2
Acq On : 8 Dec 2000 13:11 Operator: MT
Sample : 850 PHS PRO ICAL Inst : DRO-B
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Dec 8 15:16 2000 Quant Results File: PRO0901.RES

Quant Method : C:\HPCHEM\2\METHODS\PRO0901.M (Chemstation Integrator)
Title : FLORIDA PRO BY GC; INST. #2
Last Update : Mon Nov 27 15:46:57 2000
Response via : Initial Calibration
DataAcq Meth : PRO0901.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) SC o-TERPHENYL	19.19f	2316891	52.497 ug/mlm
Spiked Amount 50.000	Recovery = 104.99%		
3) SC C(39)	34.71	13137951	281.879 ug/mlm
Spiked Amount 300.000	Recovery = 93.96%		
Target Compounds			
1) HM Florida PRO	3.70	62182797	1526.199 ug/ml

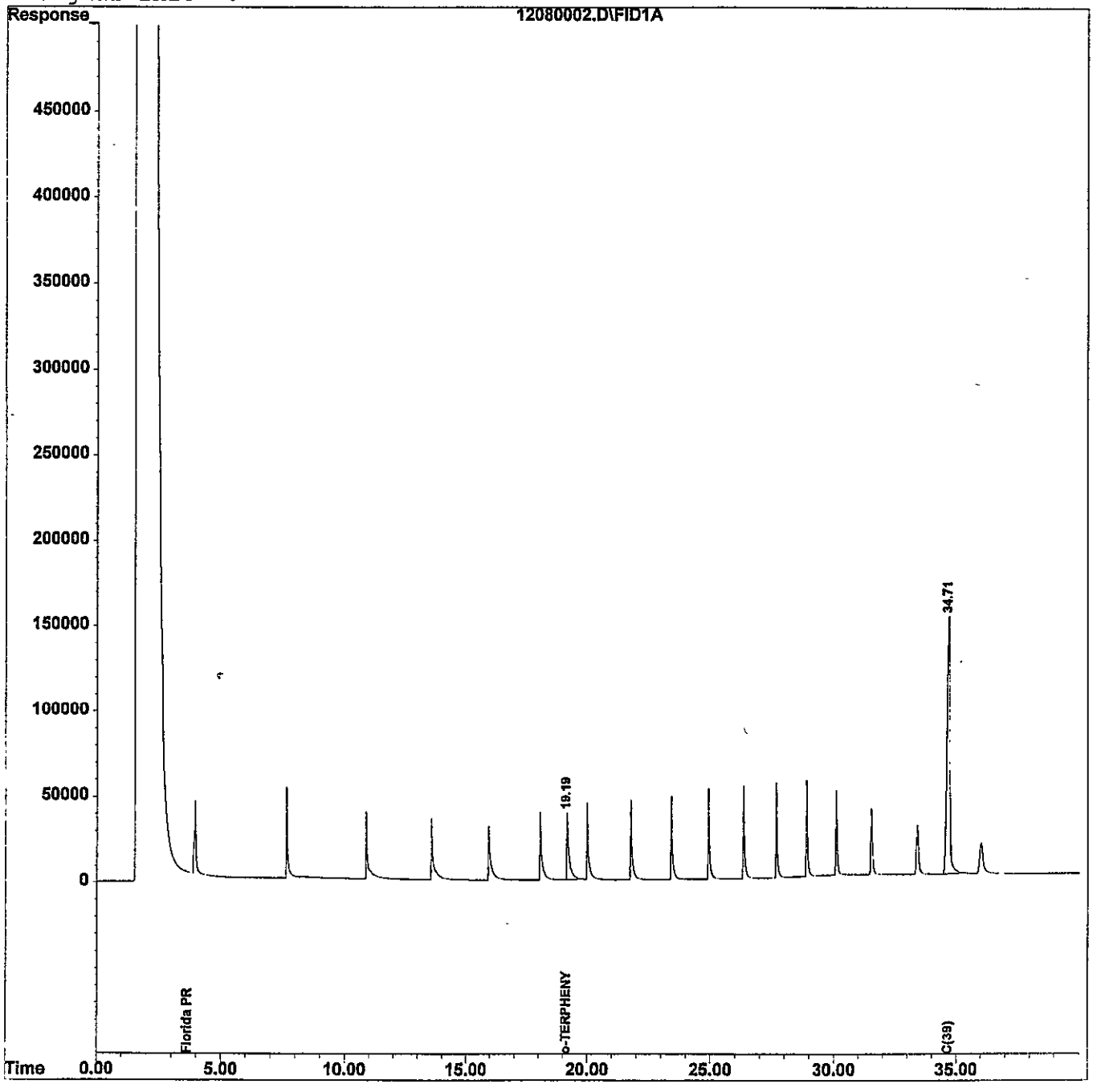
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\2\DATA\120800\12080002.D Vial: 2
Acq On : 8 Dec 2000 13:11 Operator: MT
Sample : 850 PHS PRO ICAL Inst : DRO-B
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Dec 8 15:16 2000 Quant Results File: PRO0901.RES

Quant Method : C:\HPCHEM\2\METHODS\PRO0901.M (Chemstation Integrator)
Title : FLORIDA PRO BY GC; INST. #2
Last Update : Mon Nov 27 15:46:57 2000
Response via : Multiple Level Calibration
DataAcq Meth : PRO0901.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\120800\12080003.D Vial: 3
Acq On : 8 Dec 2000 13:59 Operator: MT
Sample : 2550 PHS PRO ICAL Inst : DRO-B
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Dec 8 15:16 2000 Quant Results File: PRO0901.RES

Quant Method : C:\HPCHEM\2\METHODS\PRO0901.M (Chemstation Integrator)
Title : FLORIDA PRO BY GC; INST. #2
Last Update : Mon Nov 27 15:46:57 2000
Response via : Initial Calibration
DataAcq Meth : PRO0901.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) SC o-TERPHENYL	19.17f	2380453	53.938 ug/mlm
Spiked Amount 50.000	Recovery = 107.88%		
3) SC C(39)	34.70	14092023	302.349 ug/mlm
Spiked Amount 300.000	Recovery = 100.78%		
Target Compounds			
1) HM Florida PRO	3.70	138696300	3404.128 ug/ml

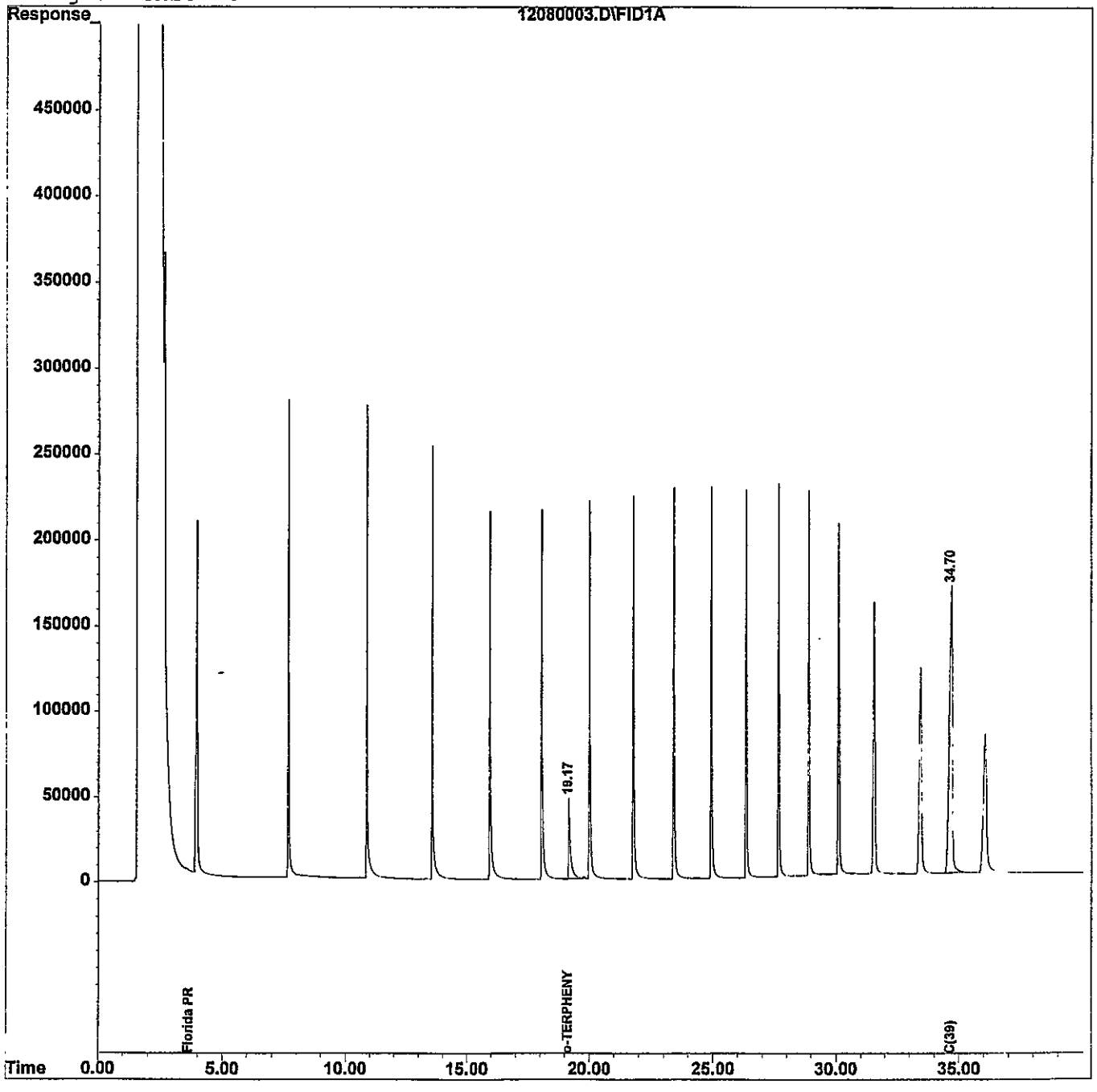
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\2\DATA\120800\12080003.D Vial: 3
Acq On : 8 Dec 2000 13:59 Operator: MT
Sample : 2550 PHS PRO ICAL Inst : DRO-B
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Dec 8 15:16 2000 Quant Results File: PRO0901.RES

Quant Method : C:\HPCHEM\2\METHODS\PRO0901.M (Chemstation Integrator)
Title : FLORIDA PRO BY GC; INST. #2
Last Update : Mon Nov 27 15:46:57 2000
Response via : Multiple Level Calibration
DataAcq Meth : PRO0901.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\2\DATA\120800\12080004.D Vial: 4
Acq On : 8 Dec 2000 14:48 Operator: MT
Sample : 4250 PHS PRO ICAL Inst : DRO-B
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Dec 8 15:34 2000 Quant Results File: PRO0901.RES

Quant Method : C:\HPCHEM\2\METHODS\PRO0901.M (Chemstation Integrator)
Title : FLORIDA PRO BY GC; INST. #2
Last Update : Mon Nov 27 15:46:57 2000
Response via : Initial Calibration
DataAcq Meth : PRO0901.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) SC o-TERPHENYL	19.16	2394194	54.249 ug/mlm
Spiked Amount 50.000	Recovery = 108.50%		
3) SC C(39)	34.70	13556352	290.856 ug/mlm
Spiked Amount 300.000	Recovery = 96.95%		
Target Compounds			
1) HM Florida PRO	3.70	225396394	5532.074 ug/ml

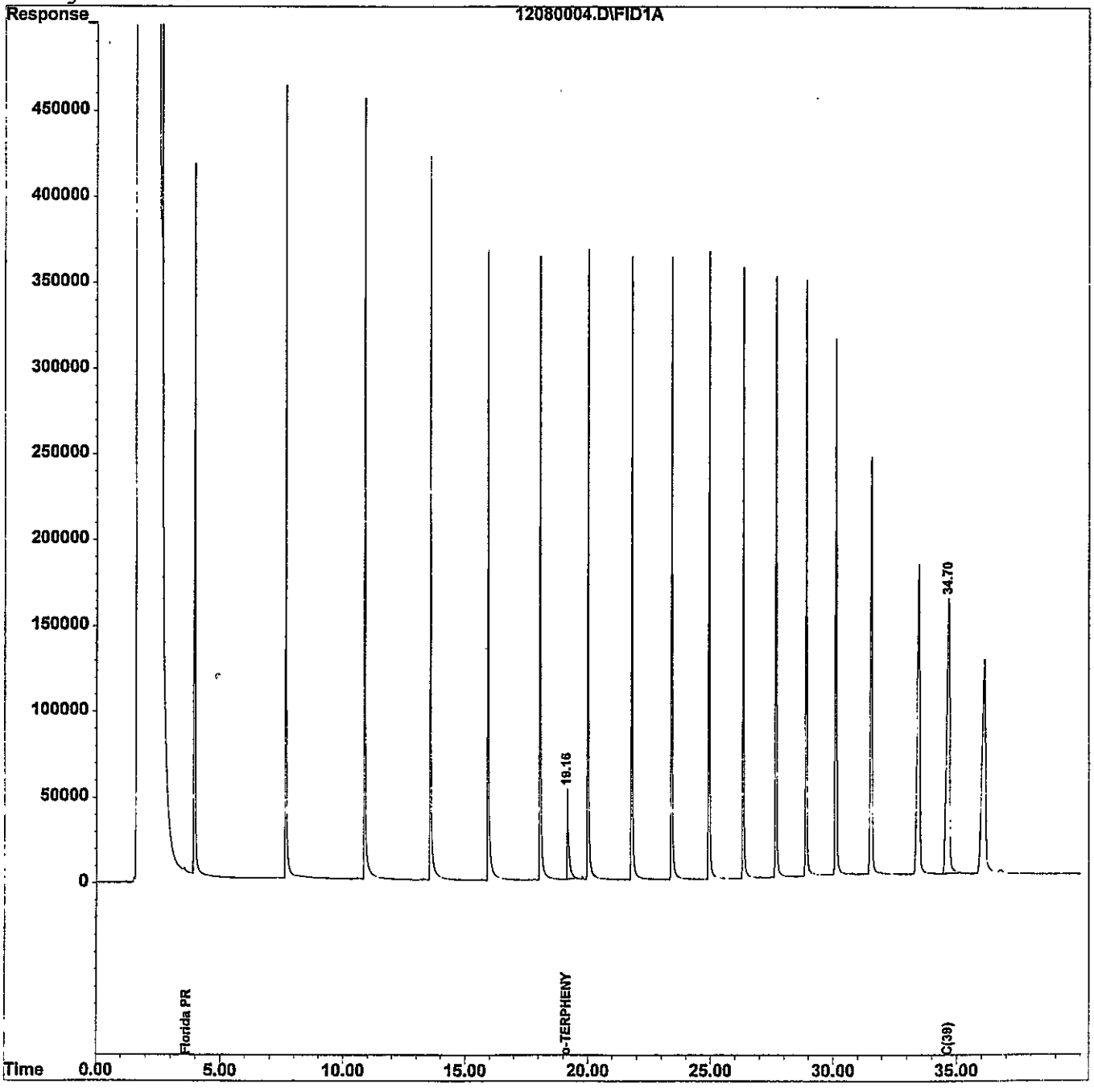
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\2\DATA\120800\12080004.D Vial: 4
Acq On : 8 Dec 2000 14:48 Operator: MT
Sample : 4250 PHS PRO ICAL Inst : DRO-B
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Dec 8 15:34 2000 Quant Results File: PRO0901.RES

Quant Method : C:\HPCHEM\2\METHODS\PRO0901.M (Chemstation Integrator)
Title : FLORIDA PRO BY GC; INST. #2
Last Update : Mon Nov 27 15:46:57 2000
Response via : Multiple Level Calibration
DataAcq Meth : PRO0901.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\2\DATA\120800\12080005.D Vial: 5
Acq On : 8 Dec 2000 15:36 Operator: MT
Sample : 5950 PHS PRO ICAL Inst : DRO-B
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Dec 8 16:17 2000 Quant Results File: PRO0901.RES

Quant Method : C:\HPCHEM\2\METHODS\PRO0901.M (Chemstation Integrator)
Title : FLORIDA PRO BY GC; INST. #2
Last Update : Mon Nov 27 15:46:57 2000
Response via : Initial Calibration
DataAcq Meth : PRO0901.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) SC o-TERPHENYL	19.16	2425862	54.966 ug/mlm
Spiked Amount 50.000	Recovery = 109.93%		
3) SC C(39)	34.70	13125618	281.614 ug/mlm
Spiked Amount 300.000	Recovery = 93.87%		
Target Compounds			
1) HM Florida PRO	3.70	320089278	7856.193 ug/ml

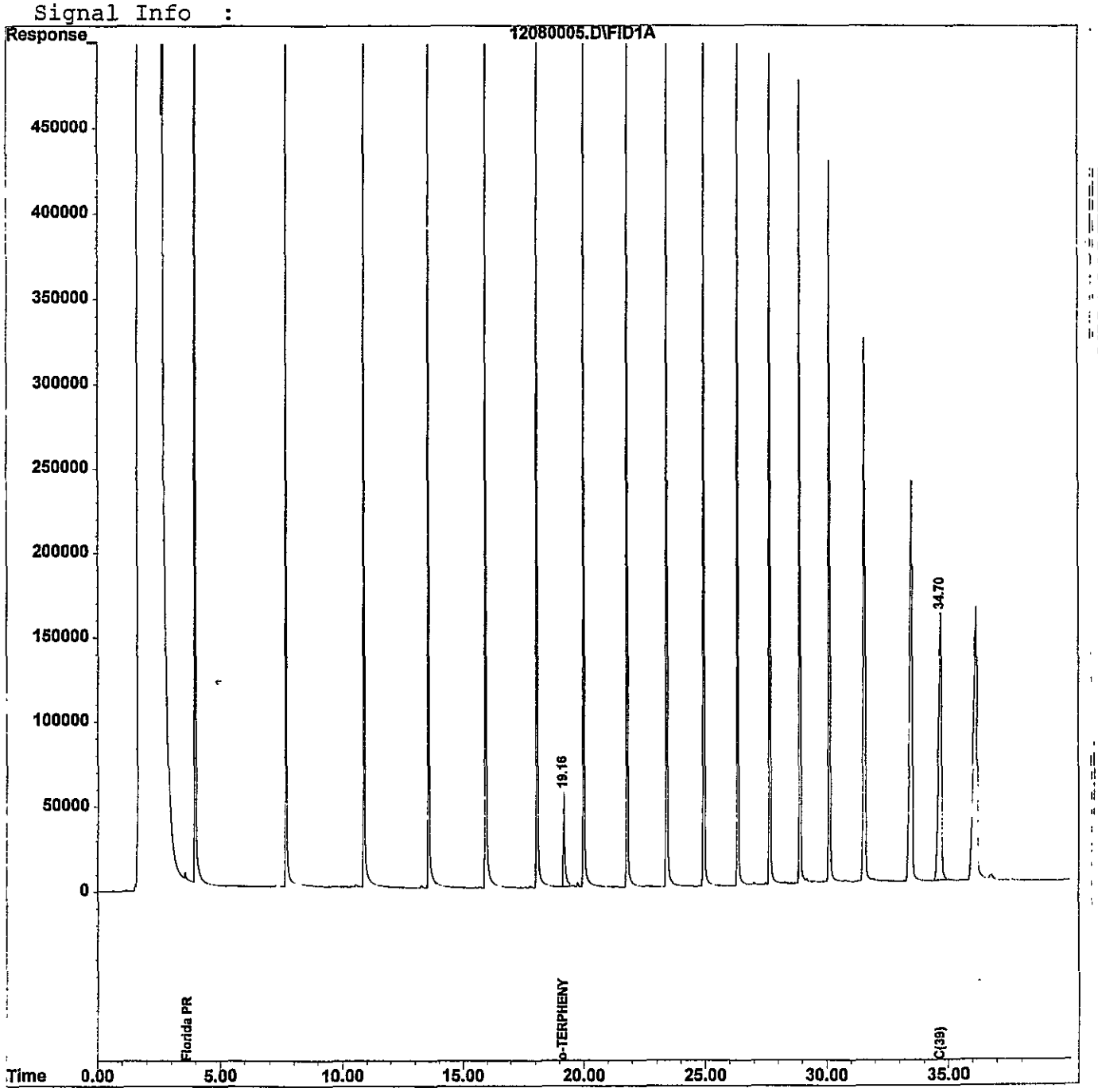
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\2\DATA\120800\12080005.D Vial: 5
Acq On : 8 Dec 2000 15:36 Operator: MT
Sample : 5950 PHS PRO ICAL Inst : DRO-B
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Dec 8 16:17 2000 Quant Results File: PRO0901.RES

Quant Method : C:\HPCHEM\2\METHODS\PRO0901.M (Chemstation Integrator)
Title : FLORIDA PRO BY GC; INST. #2
Last Update : Mon Nov 27 15:46:57 2000
Response via : Multiple Level Calibration
DataAcq Meth : PRO0901.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\2\DATA\120800\12080006.D Vial: 6
Acq On : 8 Dec 2000 16:25 Operator: MT
Sample : 8500 PHS PRO ICAL Inst : DRO-B
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Dec 8 17:06 2000 Quant Results File: PRO0901.RES

Quant Method : C:\HPCHEM\2\METHODS\PRO0901.M (Chemstation Integrator)
Title : FLORIDA PRO BY GC; INST. #2
Last Update : Mon Nov 27 15:46:57 2000
Response via : Initial Calibration
DataAcq Meth : PRO0901.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) SC o-TERPHENYL	19.17	2025865	45.903 ug/mlm
Spiked Amount 50.000	Recovery = 91.81%		
3) SC C(39)	34.72	11984023	257.121 ug/mlm
Spiked Amount 300.000	Recovery = 85.71%		
Target Compounds			
1) HM Florida PRO	3.70	384596146	9439.434 ug/ml

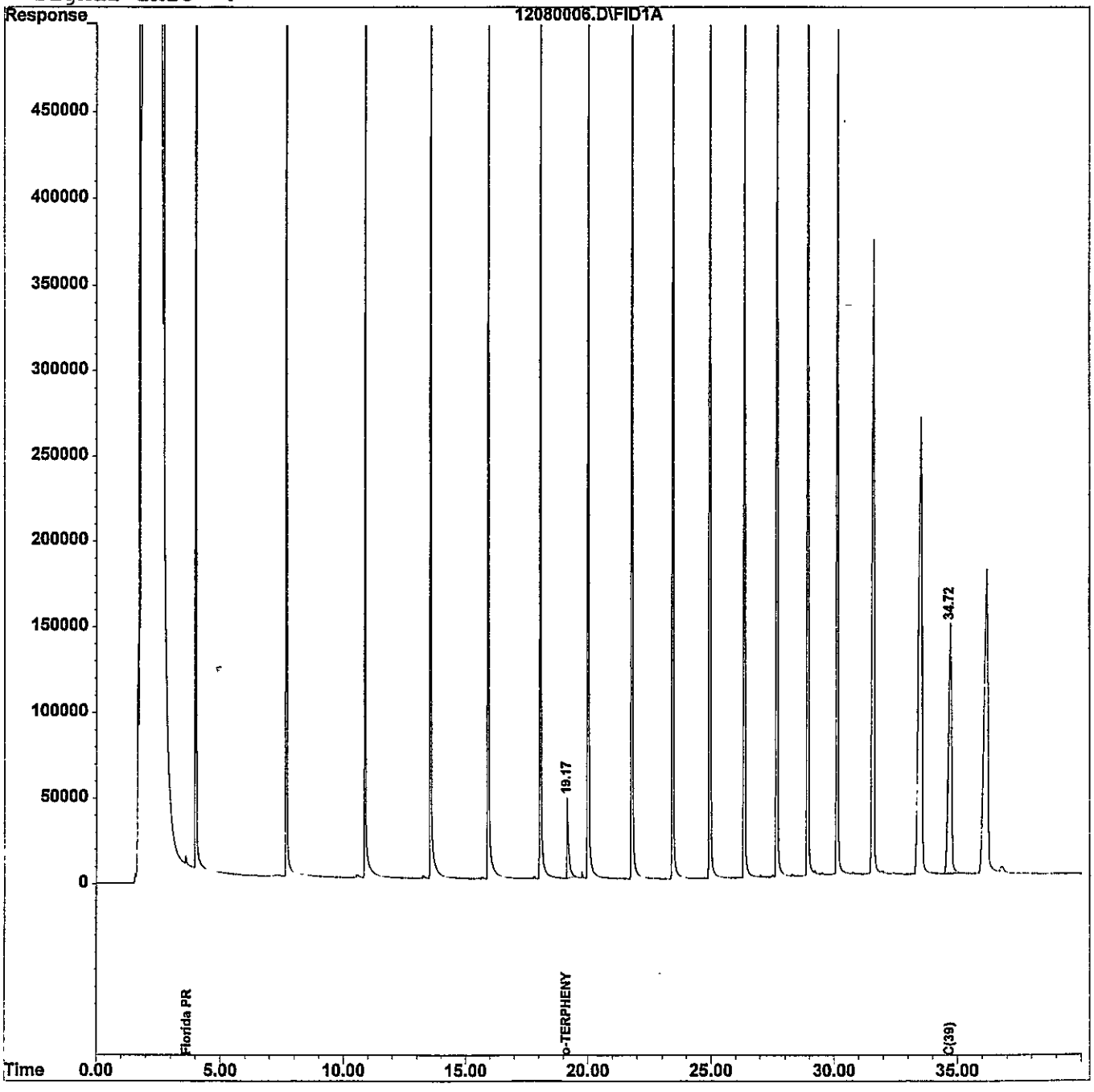
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\2\DATA\120800\12080006.D Vial: 6
Acq On : 8 Dec 2000 16:25 Operator: MT
Sample : 8500 PHS PRO ICAL Inst : DRO-B
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Dec 8 17:06 2000 Quant Results File: PRO0901.RES

Quant Method : C:\HPCHEM\2\METHODS\PRO0901.M (Chemstation Integrator)
Title : FLORIDA PRO BY GC; INST. #2
Last Update : Mon Nov 27 15:46:57 2000
Response via : Multiple Level Calibration
DataAcq Meth : PRO0901.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\120800\12080008.D Vial: 8
Acq On : 8 Dec 2000 21:59 Operator: MT
Sample : 4250 PHS PRO ICV Inst : DRO-B
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Dec 18 12:18 2000 Quant Results File: PRO1208.RES

Quant Method : C:\HPCHEM\2\METHODS\PRO1208.M (Chemstation Integrator)
Title : FLORIDA PRO BY GC; INST. #2
Last Update : Mon Dec 18 12:09:37 2000
Response via : Initial Calibration
DataAcq Meth : PRO0901.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) SC o-TERPHENYL	19.20	1889314	40.918 ug/mlm
Spiked Amount 50.000	Recovery =		81.84% MT
3) SC C(39)	34.73	11867881	270.150 ug/mlm
Spiked Amount 300.000	Recovery =		90.05% MT
Target Compounds			
1) HM Florida PRO	3.70	197434255	3471.342 ug/ml

82%
MT

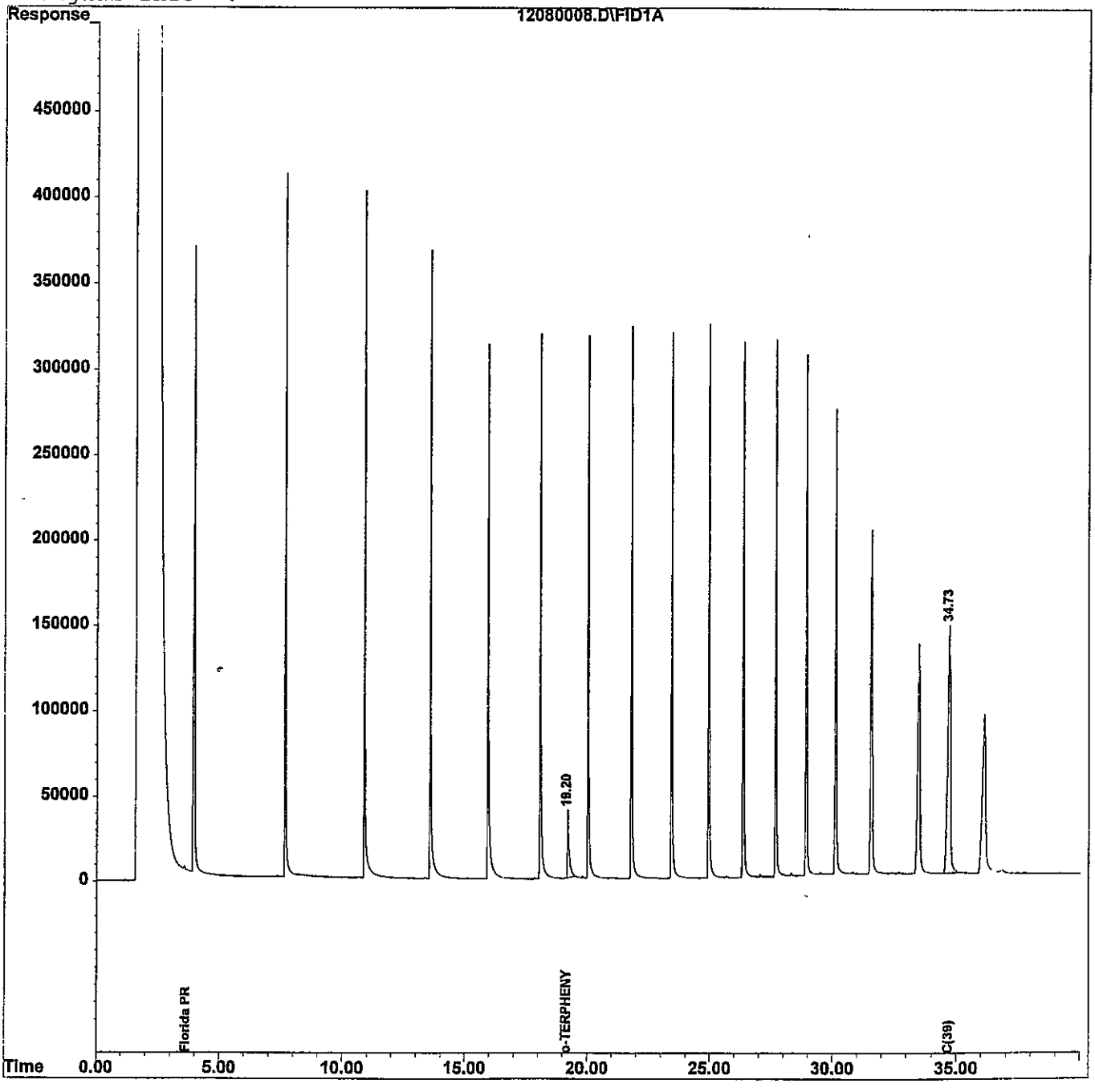
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\2\DATA\120800\12080008.D Vial: 8
Acq On : 8 Dec 2000 21:59 Operator: MT
Sample : 4250 PHS PRO ICV Inst : DRO-B
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Dec 18 12:18 2000 Quant Results File: PRO1208.RES

Quant Method : C:\HPCHEM\2\METHODS\PRO1208.M (Chemstation Integrator)
Title : FLORIDA PRO BY GC; INST. #2
Last Update : Mon Dec 18 12:09:37 2000
Response via : Multiple Level Calibration
DataAcq Meth : PRO0901.M

Volume Inj. :
Signal Phase :
Signal Info :



Accura Analytical Laboratory
GC/MS VOLATILE INSTRUMENT C RUNLOG

Date: 12/29/00
Analyst(s): TAG/VR
Calib. File 122800A.w
Quant ID File: 122900c5.m

BFB Standard Lot #: VC00048
Surrogate Standard Lot #: VC00052
Internal Standard lot #: VC00076
Calib.Standard Lot #: VC00084, VC0057

GC Conditions
BFB: 80°C-10°C/10min-155°C
Samples: 40°C(4m)-8°C/min-180°C(2m)

	CCV IS RT	CCV IS Areas
IS1	6.46	482267
IS2	12.78	301043
IS3	16.89	149855

Surrogate Limits

	DCE	TOL-d8	BFB
QC Sample	78-114	88-106	85-111
	78-128	~~85-111~~ 84-108 VR	86-112

MS Conditions
EM: 1671
Tune File: BFB01.M
Scan Delay: 1.00 min

File Name	Project ID	Lab Sam. ID	Client Sam. ID	Matrix	Volume	DF	ALS #	pH	-Cl	IS	SS	Comments
C18247	QC	BFB 50ng	—	—	2ml	—	—	—	—	—	—	13:43
C18248	↓	ccv 50ppb	—	W	25ml	1	1	—	—	✓	✓	
C18249		Water Blk	—	W	25ml	1	2	—	—	✓	✓	QVW122900C1
C18250		Water Blk	—	W	25ml	1	2	—	—	✓	X	
C18251		Water Blk	—	W	25ml	1	2	—	—	✓	✓	
C18252	↓	Water Blk SPIKE	—	W	25ml	1	3	—	—	✓	✓	QVWBS122900C1
C18253	26563	AC05535	—	W	25ml	1	4	1	X	✓	✓	
C18254	↓	AC05540	—	W	25ml	1	5	2	X	✓	✓	
C18255		AC05536	—	W	25ml	1	6	1	X	✓	✓	
C18256		AC05537	—	W	25ml	1	7	1	X	✓	✓	
C18257		AC05538	—	W	25ml	1	8	1	X	✓	✓	
C18258		AC05539	—	W	25ml	1	9	1	X	✓	✓	
C18259		AC05541	—	W	25ml	1	10	1	X	✓	✓	
C18260		AC05542	—	W	25ml	1	11	1	X	✓	✓	
C18261	↓	AC05543	—	W	25ml	1	12	1	X	✓	✓	
C18262	26562	AC05532	—	W	25ml	1	14	1	X	✓	✓	NDIL
C18263	↓	AC05533	—	W	25ml	1	15	1	X	✓	✓	
C18264	26555	AC05510	—	W	1ml	25	16	1	X	✓	✓	
C18265	↓	AC05509	—	W	0.1ml	250	1	4	X	✓	✓	NDIL
C18266	26563	AC05540	—	W	5ml	5	2	2	X	✓	✓	RI
C18267	↓	AC05536	—	W	25ml	1	3	1	X	✓	✓	
C18268	↓	AC05540MS	—	W	25ml	1	4	2	X	✓	✓	
C18269	↓	AC05540MSD	—	W	25ml	1	5	2	X	✓	✓	RI 1:53
C												
C												
C												
C												

Note: NDIL=Need Dilution NRI=Needs Reinjection MI=Matrix Interferences NC=Needs Concentrated

VR 01/01/01

Sign/Date: VR 01/01/01 7:50

Accura Analytical Laboratory
GC/MS VOLATILE INSTRUMENT C RUNLOG

Date: 12/29/00
Analyst(s): TAG/VR
Calib. File 122800A.w
Quant ID File: 122900c5.m

BFB Standard Lot #: Vcc048
Surrogate Standard Lot #: Vcc052
Internal Standard lot #: Vcc076
Calib.Standard Lot #: Vcc084, Vcc057

GC Conditions
BFB: 80°C-10°C/10min-155°C
Samples: 40°C(4m)-8°C/min-180°C(2m)

	CCV IS RT	CCV IS Areas
#1	6.46	482267
#2	12.78	301043
#3	16.89	149855

Surrogate Limits

	DCE	TOL-d8	BFB
QC	78-114	88-106	85-111
Sample	78-128	~~85-111~~ 84-108 VR	86-112

MS Conditions
EM: 1671
Tune File: BFB01.m
Scan Delay: 1.00 min

File Name	Project ID	Lab Sam. ID	Client Sam. ID	Matrix	Volume	DF	ALS #	pH	-Cl	IS	SS	Comments
C18247	QC	BFB 50ng	—	—	2ml	—	—	—	—	—	—	13:43
C18248	↓	ccv 50ppb	—	W	25ml	1	1	—	—	✓	✓	
C18249		Water BLK	—	W	25ml	1	2	—	—	✓	✓	QVW122900C1
C18250		Water BLK	—	W	25ml	1	2	—	—	✓	X	
C18251		Water BLK	—	W	25ml	1	2	—	—	✓	✓	
C18252	↓	Water BLK SPIKE	—	W	25ml	1	3	—	—	✓	✓	QVWBS122900C1
C18253	26563	AC05535	—	W	25ml	1	4	1	X	✓	✓	
C18254	↓	AC05540	—	W	25ml	1	5	2	X	✓	✓	
C18255		AC05536	—	W	25ml	1	6	1	X	✓	✓	
C18256		AC05537	—	W	25ml	1	7	1	X	✓	✓	
C18257		AC05538	—	W	25ml	1	8	1	X	✓	✓	
C18258		AC05539	—	W	25ml	1	9	1	X	✓	✓	
C18259		AC05541	—	W	25ml	1	10	1	X	✓	✓	
C18260		AC05542	—	W	25ml	1	11	1	X	✓	✓	
C18261	↓	AC05543	—	W	25ml	1	12	1	X	✓	✓	
C18262	26562	AC05532	—	W	25ml	1	14	1	X	✓	✓	NDIL
C18263	↓	AC05533	—	W	25ml	1	15	1	X	✓	✓	
C18264	26555	AC05510	—	W	1ml	25	16	1	X	✓	✓	
C18265	↓	AC05509	—	W	0.1ml	250	1	4	X	✓	✓	NDIL
C18266	26563	AC05540	—	W	5ml	5	2	2	X	✓	✓	RI
C18267		AC05536	—	W	25ml	1	3	1	X	✓	✓	
C18268		AC05540MS	—	W	25ml	1	4	2	X	✓	✓	
C18269	↓	AC05540MSD	—	W	25ml	1	5	2	X	✓	✓	RI 1:53
C												
C												
C												
C												

Note: NDIL=Need Dilution NRI=Needs Reinjection MI=Matrix Interferences NC=Needs Concentrated

VR 01/01/01

Sign/Date: VR 01/01/01 7:50

VOA GC/MS QC CHECKLIST

SW-846-8260B

26563 Project Specific Q-C

BATCH #: C12140025-M	METHOD: 8260B
MATRIX: water	

Are BS/BSD/MS/MSD recoveries within recovery ranges?	Y	N	NA
Is/Are blank result(s) less than 1/2 RDL for analytes of interest?	Y	N	NA
Are all surrogate recoveries within recovery ranges?	Y	N	NA
Are all Internal Standard areas w/in -50% to +100% of that in the CCV?	Y	N	NA
Are all Internal Standard retention times w/in 30 seconds of that in the CCV?	Y	N	NA
Are all MS/MSD compounds below the high standard?	Y	N	NA
Were sample analyses performed within holding times?	Y	N	NA
Were analyses performed such that carryover was not a problem?	Y	N	NA
Is the run log completely filled out (including review signature/date)?	Y	N	NA
Are all mistakes single lined out, initialled, & dated?	Y	N	NA

Analyst: JR	Reviewer: Thomas A. Gatel
Date: 01/03/01 Time: 14:38	Date: 1/5/2001 Time: 10:10

Spike Recovery and RPD Summary Report - WATER

Method : c:\hpchem\1\data\122900\12290025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Fri Dec 29 08:48:11 2000
Response via : Initial Calibration

Non-Spiked Sample: C18254.D

	Spike Sample	Spike Duplicate Sample
File ID :	C18268.D	C18283.D
Sample :	AC05540MS 25ml DF=1	AC05540MSD 25ml DF=1
Acq Time:	30 Dec 2000 1:23	2 Jan 2001 17:49

Compound	Sample Conc	Spike Added	Spike Res	Dup Res	Spike %Rec	Dup %Rec	RPD	QC Limits RPD	QC Limits % Rec
1,1-Dichloroethene	0.0	10	10	10	98	100	2	20	82-118
Benzene	0.2	10	10	10	103	97	5	20	83-121
Trichloroethene	0.1	10	10	10	101	96	5	20	68-109
Toluene	0.5	10	11	10	103	95	8	20	85-109
Chlorobenzene	0.1	10	10	9	99	94	6	20	82-110

- Fails Limit Check

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\122900\C18268.D Vial: 4
Acq On : 30 Dec 2000 1:23 Operator: TAG/VR
Sample : AC05540MS 25ml DF=1 Inst : VOA-C
Misc : 26563/C12140025 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 30 1:49 2000 Quant Results File: 12290025.RES

Quant Method : c:\hpchem\1\data\122900\12290025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Fri Dec 29 10:24:33 2000
Response via : Initial Calibration
DataAcq Meth : 12290025

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Pentafluorobenzene	6.46	168	386210	10.00	ug\L		-0.01
45) Chlorobenzene-d5	12.77	117	262816	10.00	ug\L		0.00
61) 1,4-Dichlorobenzene-d4	16.89	152	132256	10.00	ug\L		0.00
System Monitoring Compounds							
32) 1,2-Dichloroethane-d4	6.94	65	74858	9.77	ug\L		0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 97.70%				
46) Toluene-d8	10.26	98	395191	10.16	ug\L		-0.01
Spiked Amount 10.000	Range 87 - 104		Recovery = 101.60%				
65) Bromofluorobenzene	14.86	95	184589	10.07	ug\L		-0.01
Spiked Amount 10.000	Range 84 - 110		Recovery = 100.70%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.59	85	263116	10.50	ug\L		99
3) Chloromethane	1.76	50	94824	10.95	ug\L		98
4) Vinyl Chloride	1.83	62	109548	9.18	ug\L		99
5) Bromomethane	2.12	94	107946	10.19	ug\L		100
6) Chloroethane	2.20	64	68756	10.94	ug\L		99
7) Trichlorofluoromethane	2.41	101	323275	9.46	ug\L	#	100
8) Acrolein	3.80	56	2421	11.13	ug\L	#	3
9) Acrylonitrile	3.85	53	8244	19.72	ug\L	#	69
10) 1,1-Dichloroethene	2.92	96	126017	9.83	ug\L		99
11) Acetone	3.02	58	2695	26.51	ug\L	#	20
12) Iodomethane	3.10	142	155846	8.31	ug\L		99
13) Allylchloride	3.32	39	102545	10.03	ug\L	#	37
14) Carbon Disulfide	3.16	76	240356	9.47	ug\L		99
15) Acetonitrile	3.32	41	153277	101.12	ug\L		93
16) Methylene Chloride	3.49	86	56234	8.47	ug\L	#	35
17) trans-1,2-Dichloroethene	3.81	96	133839	10.33	ug\L		97
18) MethylTertButylEther	3.81	73	102046	9.71	ug\L		95
19) 1,1-Dichloroethane	4.44	63	217153	10.56	ug\L		99
20) Vinyl Acetate	3.80	43	23359	9.94	ug\L	#	73
21) 2,2-Dichloropropane	5.41	77	195309	8.67	ug\L		98
22) cis-1,2-Dichloroethene	5.47	96	112451	10.28	ug\L		96
23) 2-Butanone	5.56	72	2349	12.91	ug\L	#	92
24) Propionitrile	5.75	54	8046	77.83	ug\L	#	78
25) Methacrylonitrile	5.94	41	100453	101.49	ug\L		95
26) Bromochloromethane	5.93	128	43835	10.52	ug\L		86
27) Chloroform	6.08	83	243578	9.93	ug\L		99
28) 1,1,1-Trichloroethane	6.31	97	281911	9.69	ug\L	#	75
29) Carbon Tetrachloride	6.57	119	249058	9.53	ug\L	#	76
31) 1,1-Dichloropropene	6.61	77	68750	9.73	ug\L	#	1

(#) = qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\122900\C18268.D Vial: 4
Acq On : 30 Dec 2000 1:23 Operator: TAG/VR
Sample : AC05540MS 25ml DF=1 Inst : VOA-C
Misc : 26563/C12140025 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 30 1:49 2000 Quant Results File: 12290025.RES

Quant Method : c:\hpchem\1\data\122900\12290025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Fri Dec 29 10:24:33 2000
Response via : Initial Calibration
DataAcq Meth : 12290025

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
33) Benzene	6.98	78	366440	10.49 ug\L	100
34) Isobutyl alcohol	7.16	43	6474	95.79 ug\L #	51
35) 1,2-Dichloroethane	7.08	62	89291	9.96 ug\L	100
36) Trichloroethene	8.14	95	186384	10.19 ug\L	93
37) 1,2-Dichloropropane	8.56	63	106610	10.22 ug\L #	97
38) Dibromomethane	8.79	93	48434	10.42 ug\L #	86
39) Methylmethacrylate	8.87	69	18582	10.62 ug\L	89
40) Bromodichloromethane	9.11	83	168653	10.10 ug\L	98
41) 2-Nitropropane	9.52	43	4479	9.58 ug\L #	100
42) 2-Chloroethyl-vinyl ether	9.69	63	66	2.94 ug\L #	47
43) cis-1,3-Dichloropropene	9.87	75	120256	9.98 ug\L	98
44) 4-Methyl-2-Pentanone	10.21	85	4038	8.17 ug\L #	1
47) Toluene	10.38	92	269648	10.79 ug\L	100
48) trans-1,3-Dichloropropene	10.88	75	77510	9.72 ug\L	95
49) Ethylmethacrylate	11.05	69	46234	9.84 ug\L #	89
50) 1,1,2-Trichloroethane	11.19	83	48298	10.63 ug\L	91
51) Tetrachloroethene	11.31	164	169901	10.20 ug\L	93
52) 1,3-Dichloropropane	11.45	76	84038	10.04 ug\L	100
53) 2-Hexanone	11.65	43	15132	12.50 ug\L #	57
54) Dibromochloromethane	11.85	129	90104	10.05 ug\L	95
55) 1,2-Dibromoethane	11.98	107	59991	10.09 ug\L #	94
56) Chlorobenzene	12.82	112	283541	9.97 ug\L	95
57) 1,1,1,2-Tetrachloroethane	13.01	131	119222	9.96 ug\L	94
58) Ethylbenzene	13.04	91	1611542	31.67 ug\L	98
59) total-Xylene	13.92	106	316606m	42.18 ug\L	
60) Styrene	13.97	104	261358	10.33 ug\L	95
62) Bromoform	14.31	173	41453	9.61 ug\L #	97
63) Isopropylbenzene	14.57	105	1237582	19.27 ug\L	98
64) 1,4-dichloro-2-Butene	15.27	75	42429	10.35 ug\L #	100
66) Bromobenzene	15.09	156	115083	10.53 ug\L #	62
67) 1,1,2,2-Tetrachloroethane	15.24	83	50903	10.15 ug\L #	92
68) 1,2,3-Trichloropropane	15.27	75	42429	10.35 ug\L #	100
69) n-Propylbenzene	15.31	91	1408101	20.43 ug\L	99
70) 2-Chlorotoluene	15.42	91	447277	11.86 ug\L #	87
71) 4-Chlorotoluene	15.64	91	619814	12.34 ug\L #	90
72) 1,3,5-Trimethylbenzene	15.64	105	1764405	35.84 ug\L	88
73) Pentachloroethane	16.24	167	73469	10.17 ug\L	99
74) tert-Butylbenzene	16.20	119	370573	6.22 ug\L #	67
75) 1,2,4-Trimethylbenzene	16.29	105	4575048	99.04 ug\L	86
76) sec-Butylbenzene	16.58	105	1206297	16.30 ug\L	93
77) 1,3-Dichlorobenzene	16.76	146	216911	10.30 ug\L	96
78) Isopropyltoluene	16.85	119	1226185	21.18 ug\L	95

(#) = qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\122900\C18268.D Vial: 4
Acq On : 30 Dec 2000 1:23 Operator: TAG/VR
Sample : AC05540MS 25ml DF=1 Inst : VOA-C
Misc : 26563/C12140025 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 30 1:49 2000 Quant Results File: 12290025.RES

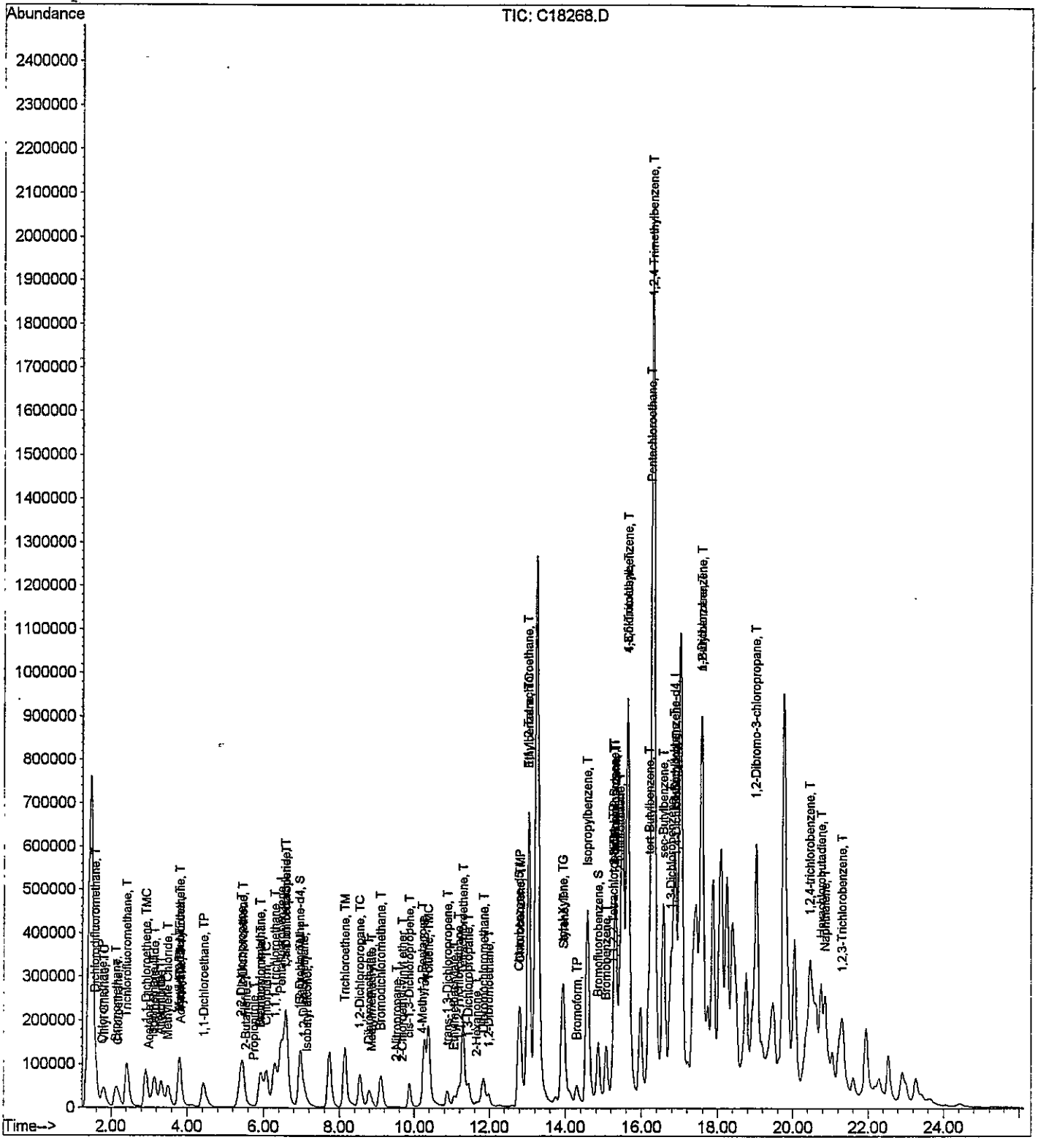
Quant Method : c:\hpchem\1\data\122900\12290025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Fri Dec 29 10:24:33 2000
Response via : Initial Calibration
DataAcq Meth : 12290025

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
79)	1,4-Dichlorobenzene	16.92	146	232715	9.86	ug\L		98
80)	1,2-Dichlorobenzene	17.58	146	165828	10.01	ug\L		97
81)	n-Butylbenzene	17.59	91	1002225	17.80	ug\L	#	46
82)	1,2-Dibromo-3-chloropropan	19.02	75	19276	20.01	ug\L	#	62
83)	1,2,4-trichlorobenzene	20.44	180	128829	10.83	ug\L		100
84)	Hexachlorobutadiene	20.75	225	169781	10.07	ug\L		100
85)	Naphthalene	20.87	128	479738	51.17	ug\L		100
86)	1,2,3-Trichlorobenzene	21.31	180	95600	11.47	ug\L	#	81

(#) = qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\122900\C18268.D Vial: 4
Acq On : 30 Dec 2000 1:23 Operator: TAG/VR
Sample : AC05540MS 25ml DF=1 Inst : VOA-C
Misc : 26563/C12140025 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 30 1:49 2000 Quant Results File: 12290025.RES

Method : c:\hpchem\1\data\122900\12290025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Fri Dec 29 08:48:11 2000
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\010201\C18283.D Vial: 11
Acq On : 2 Jan 2001 17:49 Operator: TAG/VR
Sample : AC05540MSD 25ml DF=1 Inst : VOA-C
Misc : 26563/C12140025 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jan 2 18:15 2001 Quant Results File: 01020125.RES

Quant Method : c:\hpchem\1\data\010201\01020125.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Fri Dec 29 10:24:33 2000
Response via : Initial Calibration
DataAcq Meth : 01020125

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Pentafluorobenzene	6.45	168	431208	10.00	ug\L		-0.02
45) Chlorobenzene-d5	12.77	117	304259	10.00	ug\L		0.00
61) 1,4-Dichlorobenzene-d4	16.88	152	160897	10.00	ug\L		0.00
System Monitoring Compounds							
32) 1,2-Dichloroethane-d4	6.94	65	88186	10.30	ug\L		0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 103.00%				
46) Toluene-d8	10.26	98	422285	9.37	ug\L		-0.02
Spiked Amount 10.000	Range 87 - 104		Recovery = 93.70%				
65) Bromofluorobenzene	14.86	95	215617	9.67	ug\L		-0.02
Spiked Amount 10.000	Range 84 - 110		Recovery = 96.70%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.59	85	278250	9.95	ug\L		99
3) Chloromethane	1.77	50	103258	10.68	ug\L		96
4) Vinyl Chloride	1.84	62	123612	9.28	ug\L		99
5) Bromomethane	2.12	94	113397	9.59	ug\L		98
6) Chloroethane	2.22	64	72474	10.33	ug\L		96
7) Trichlorofluoromethane	2.43	101	368894	9.66	ug\L	#	100
8) Acrolein	3.77	56	1935	7.97	ug\L	#	19
9) Acrylonitrile	3.84	53	9951	21.14	ug\L	#	54
10) 1,1-Dichloroethene	2.93	96	143028	9.99	ug\L		97
11) Acetone	3.05	58	1010	10.06	ug\L	#	1
12) Iodomethane	3.11	142	197611	9.31	ug\L		100
13) Allylchloride	3.33	39	108156	9.47	ug\L	#	21
14) Carbon Disulfide	3.16	76	306455	10.82	ug\L		99
15) Acetonitrile	3.33	41	165801	97.97	ug\L		94
16) Methylene Chloride	3.49	86	61263	8.23	ug\L	#	1
17) trans-1,2-Dichloroethene	3.80	96	143129	9.90	ug\L		97
18) MethylTertButylEther	3.80	73	129346	11.02	ug\L		96
19) 1,1-Dichloroethane	4.42	63	227706	9.92	ug\L		99
20) Vinyl Acetate	3.80	43	29181	11.12	ug\L	#	73
21) 2,2-Dichloropropane	5.39	77	236132	9.39	ug\L		97
22) cis-1,2-Dichloroethene	5.46	96	120830	9.89	ug\L	#	11
23) 2-Butanone	5.60	72	1224	8.31	ug\L	#	1
24) Propionitrile	5.75	54	15311	116.67	ug\L	#	67
25) Methacrylonitrile	5.93	41	121668	110.09	ug\L		96
26) Bromochloromethane	5.90	128	50772	10.92	ug\L	#	76
27) Chloroform	6.06	83	263004	9.60	ug\L		99
28) 1,1,1-Trichloroethane	6.30	97	310304	9.55	ug\L	#	75
29) Carbon Tetrachloride	6.56	119	279422	9.58	ug\L	#	78
31) 1,1-Dichloropropene	6.59	77	77886	9.88	ug\L	#	1

(#) = qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\010201\C18283.D Vial: 11
Acq On : 2 Jan 2001 17:49 Operator: TAG/VR
Sample : AC05540MSD 25ml DF=1 Inst : VOA-C
Misc : 26563/C12140025 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jan 2 18:15 2001 Quant Results File: 01020125.RES

Quant Method : c:\hpchem\1\data\010201\01020125.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Fri Dec 29 10:24:33 2000
Response via : Initial Calibration
DataAcq Meth : 01020125

Compound	R.T.	QIon	Response	Conc Unit		Qvalue
33) Benzene	6.96	78	389249	9.98 ug\L		100
34) Isobutyl alcohol	7.16	43	14853	225.91 ug\L		90
35) 1,2-Dichloroethane	7.09	62	105069	10.50 ug\L		100
36) Trichloroethene	8.12	95	198891	9.74 ug\L		93
37) 1,2-Dichloropropane	8.55	63	111661	9.59 ug\L	#	95
38) Dibromomethane	8.78	93	58848	11.33 ug\L	#	85
39) Methylmethacrylate	8.85	69	24661	12.63 ug\L		91
40) Bromodichloromethane	9.09	83	193858	10.40 ug\L		97
41) 2-Nitropropane	9.54	43	6969	12.70 ug\L	#	100
42) 2-Chloroethyl-vinyl ether	9.68	63	256	3.79 ug\L	#	47
43) cis-1,3-Dichloropropene	9.86	75	145798	10.84 ug\L		97
44) 4-Methyl-2-Pentanone	10.18	85	5253	9.52 ug\L	#	58
47) Toluene	10.37	92	289978	10.02 ug\L		99
48) trans-1,3-Dichloropropene	10.88	75	102249	11.08 ug\L		92
49) Ethylmethacrylate	11.05	69	61782	11.20 ug\L	#	85
50) 1,1,2-Trichloroethane	11.17	83	57457	10.93 ug\L		96
51) Tetrachloroethene	11.28	164	178677	9.27 ug\L		94
52) 1,3-Dichloropropane	11.43	76	105914	10.93 ug\L		99
53) 2-Hexanone	11.65	43	20873	14.90 ug\L	#	80
54) Dibromochloromethane	11.83	129	118623	11.43 ug\L		100
55) 1,2-Dibromoethane	11.98	107	77870	11.31 ug\L	#	100
56) Chlorobenzene	12.82	112	310171	9.42 ug\L		95
57) 1,1,1,2-Tetrachloroethane	12.99	131	137802	9.94 ug\L		95
58) Ethylbenzene	13.03	91	1629353	27.66 ug\L		98
59) total-Xylene	13.92	106	320869m	36.92 ug\L		
60) Styrene	13.95	104	297154	10.15 ug\L		95
62) Bromoform	14.31	173	54184	10.20 ug\L		99
63) Isopropylbenzene	14.56	105	1235216	15.81 ug\L		98
64) 1,4-dichloro-2-Butene	15.25	75	50778	10.18 ug\L	#	100
66) Bromobenzene	15.08	156	131971	9.93 ug\L	#	60
67) 1,1,2,2-Tetrachloroethane	15.23	83	65719	10.77 ug\L	#	94
68) 1,2,3-Trichloropropane	15.25	75	50778	10.18 ug\L	#	100
69) n-Propylbenzene	15.30	91	1393228	16.61 ug\L		98
70) 2-Chlorotoluene	15.44	91	448996	9.79 ug\L	#	95
71) 4-Chlorotoluene	15.63	91	663514	10.86 ug\L		93
72) 1,3,5-Trimethylbenzene	15.63	105	1665878	27.82 ug\L		92
73) Pentachloroethane	16.23	167	84800	9.65 ug\L		98
74) tert-Butylbenzene	16.20	119	475204	6.55 ug\L	#	78
75) 1,2,4-Trimethylbenzene	16.29	105	4092822	72.83 ug\L		87
76) sec-Butylbenzene	16.58	105	1188858	13.20 ug\L		92
77) 1,3-Dichlorobenzene	16.75	146	239953	9.36 ug\L		98
78) Isopropyltoluene	16.85	119	1202880	17.08 ug\L		97

(#) = qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\010201\C18283.D Vial: 11
Acq On : 2 Jan 2001 17:49 Operator: TAG/VR
Sample : AC05540MSD 25ml DF=1 Inst : VOA-C
Misc : 26563/C12140025 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jan 2 18:15 2001 Quant Results File: 01020125.RES

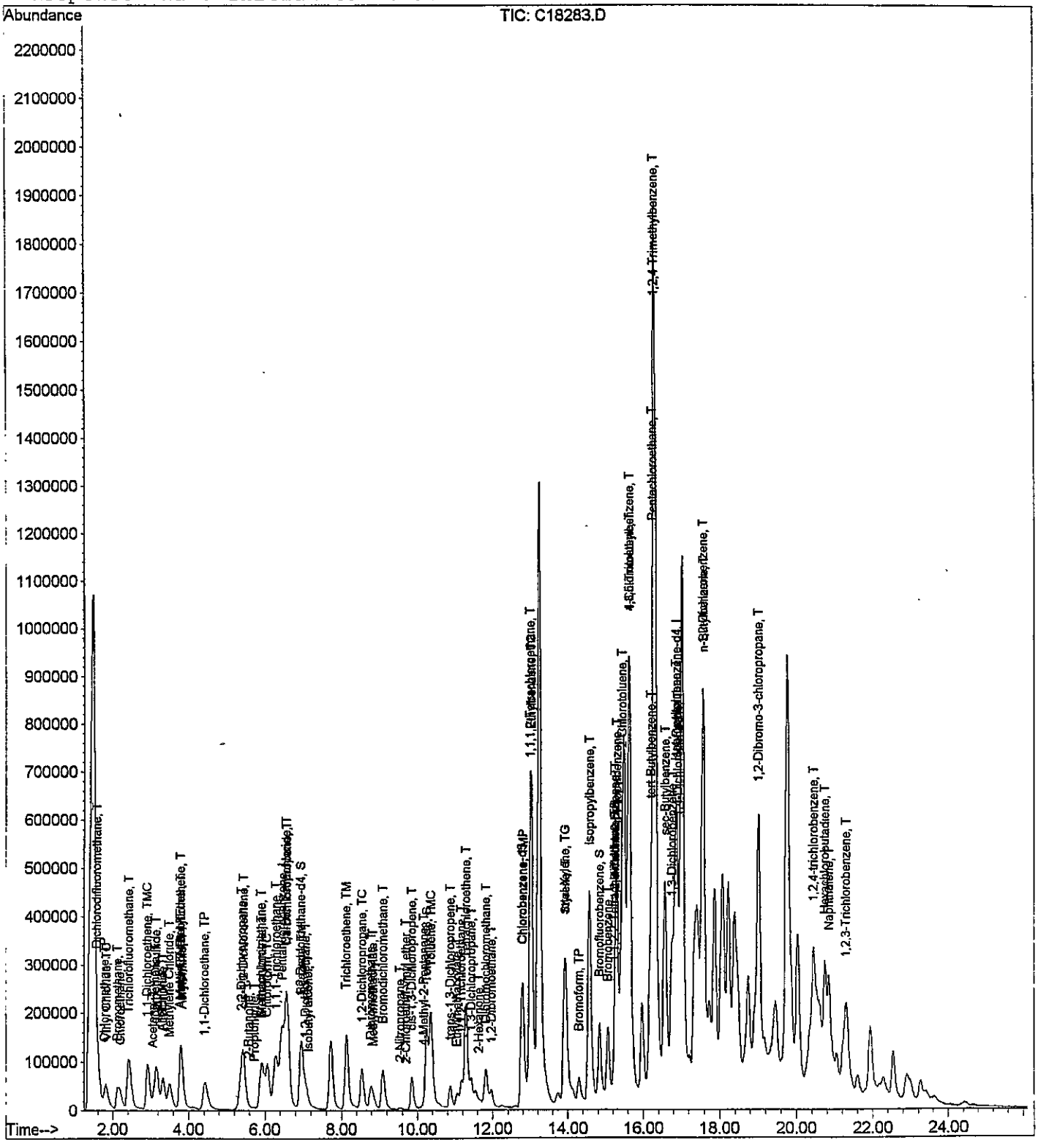
Quant Method : c:\hpchem\1\data\010201\01020125.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Fri Dec 29 10:24:33 2000
Response via : Initial Calibration
DataAcq Meth : 01020125

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
79)	1,4-Dichlorobenzene	16.92	146	274648	9.57	ug\L		99
80)	1,2-Dichlorobenzene	17.57	146	191111	9.48	ug\L		98
81)	n-Butylbenzene	17.59	91	983043	14.35	ug\L	#	51
82)	1,2-Dibromo-3-chloropropan	19.00	75	20399	17.55	ug\L	#	77
83)	1,2,4-trichlorobenzene	20.45	180	160627	11.10	ug\L		100
84)	Hexachlorobutadiene	20.76	225	184725	9.00	ug\L		100
85)	Naphthalene	20.87	128	522968	45.95	ug\L		100
86)	1,2,3-Trichlorobenzene	21.31	180	122978	12.13	ug\L	#	67

(#) = qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\010201\C18283.D Vial: 11
Acq On : 2 Jan 2001 17:49 Operator: TAG/VR
Sample : AC05540MSD 25ml DF=1 Inst : VOA-C
Misc : 26563/C12140025 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jan 2 18:15 2001 Quant Results File: 01020125.RES

Method : c:\hpchem\1\data\010201\01020125.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Fri Dec 29 08:48:11 2000
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\122900\C18254.D Vial: 5
Acq On : 29 Dec 2000 17:50 Operator: TAG/VR
Sample : AC05540 25ml DF=1 Inst : VOA-C
Misc : 26563/C12140025 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 29 18:16 2000 Quant Results File: 12290025.RES

Quant Method : c:\hpchem\1\data\122900\12290025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Fri Dec 29 10:24:33 2000
Response via : Initial Calibration
DataAcq Meth : 12290025

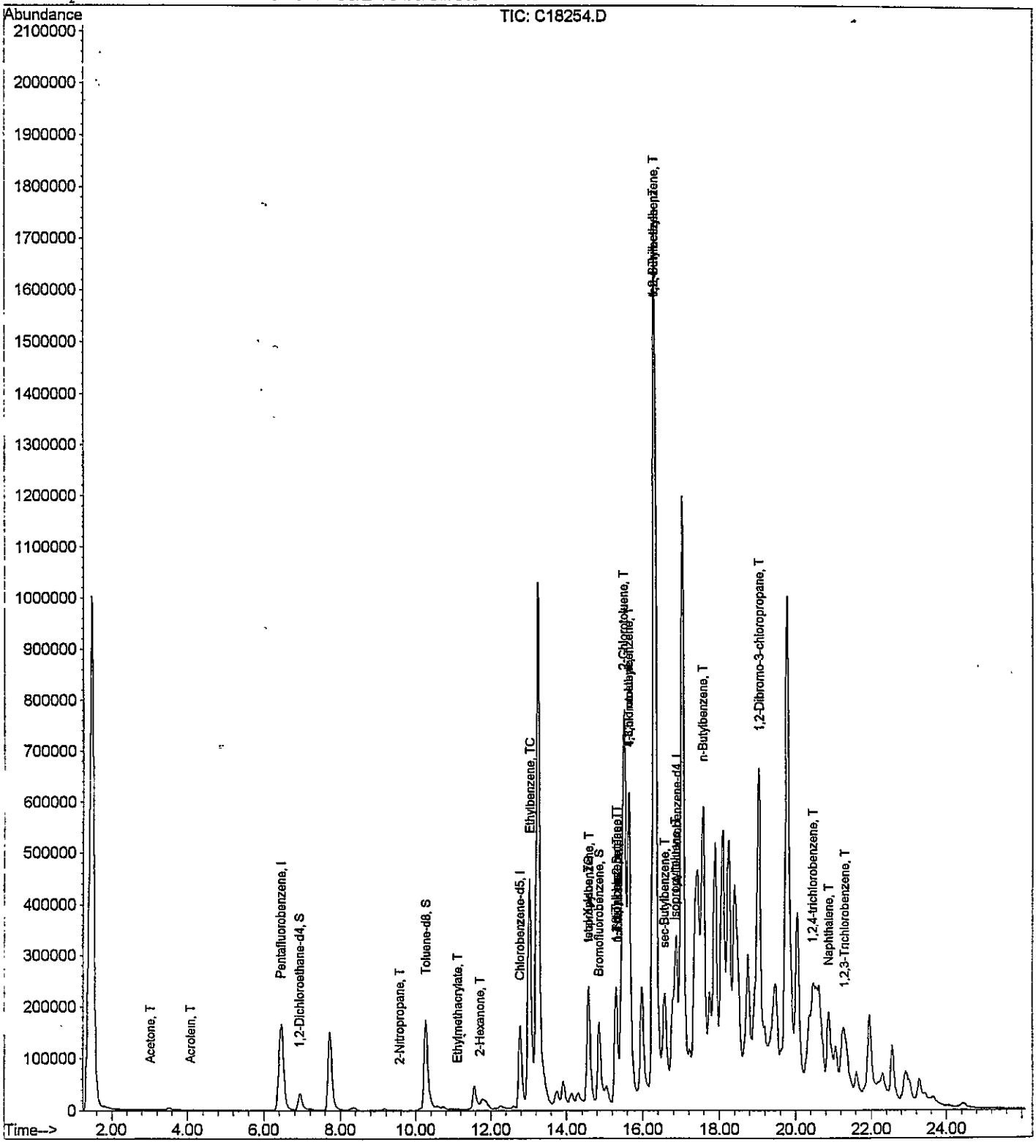
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Pentafluorobenzene	6.45	168	469188	10.00 ug\L	-0.02
45) Chlorobenzene-d5	12.77	117	320997	10.00 ug\L	0.00
61) 1,4-Dichlorobenzene-d4	16.89	152	159565	10.00 ug\L	0.00
System Monitoring Compounds					
32) 1,2-Dichloroethane-d4	6.93	65	81745	8.78 ug\L	-0.01
Spiked Amount 10.000	Range 80 - 120		Recovery = 87.80%		
46) Toluene-d8	10.26	98	446629	9.40 ug\L	-0.02
Spiked Amount 10.000	Range 87 - 104		Recovery = 94.00%		
65) Bromofluorobenzene	14.86	95	220814	9.98 ug\L	-0.01
Spiked Amount 10.000	Range 84 - 110		Recovery = 99.80%		
Target Compounds					Qvalue
8) Acrolein	4.08	56	148	~~0.56 ug\L #~~	1
11) Acetone	3.04	58	200	~~3.26 ug\L #~~	32
16) Methylene Chloride	3.51	86	4391	~~0.58 ug\L #~~	58
34) Isobutyl alcohol	7.18	43	642	~~17.51 ug\L #~~	17
41) 2-Nitropropane	9.59	43	828	~~2.87 ug\L #~~	100
49) Ethylmethacrylate	11.10	69	464	~~1.13 ug\L #~~	1
53) 2-Hexanone	11.72	43	1904	~~1.29 ug\L #~~	41
58) Ethylbenzene	13.03	91	1217556	19.59 ug\L	99
59) total-Xylene	14.57	106	94305m	10.29 ug\L	
63) Isopropylbenzene	14.59	105	619808	8.00 ug\L	99
64) 1,4-dichloro-2-Butene	15.31	75	3680	~~0.74 ug\L #~~	100
68) 1,2,3-Trichloropropane	15.31	75	3680	0.74 ug\L #	100
69) n-Propylbenzene	15.31	91	688656	8.28 ug\L	98
70) 2-Chlorotoluene	15.49	91	151339	~~3.33 ug\L #~~	33
71) 4-Chlorotoluene	15.63	91	149871	~~2.47 ug\L #~~	54
72) 1,3,5-Trimethylbenzene	15.63	105	1332180	22.43 ug\L	88
74) tert-Butylbenzene	16.29	119	469779	6.53 ug\L #	56
75) 1,2,4-Trimethylbenzene	16.29	105	4093371	73.45 ug\L #	85 NDIL
76) sec-Butylbenzene	16.58	105	528857	~~5.92 ug\L~~	94
78) Isopropyltoluene	16.83	119	669062	9.58 ug\L	94
81) n-Butylbenzene	17.58	91	367129	~~5.41 ug\L #~~	1
82) 1,2-Dibromo-3-chloropropan	19.05	75	10131	~~9.32 ug\L #~~	16
83) 1,2,4-trichlorobenzene	20.44	180	11123	0.78 ug\L	100
85) Naphthalene	20.88	128	350497	31.36 ug\L	100
86) 1,2,3-Trichlorobenzene	21.31	180	12350	1.23 ug\L #	77

VR
01/03/01

(#) = qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\122900\C18254.D Vial: 5
Acq On : 29 Dec 2000 17:50 Operator: TAG/VR
Sample : AC05540 25ml DF=1 Inst : VOA-C
Misc : 26563/C12140025 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 29 18:16 2000 Quant Results File: 12290025.RES

Method : c:\hpchem\1\data\122900\12290025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Fri Dec 29 08:48:11 2000
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\122900\C18252.D Vial: 3
Acq On : 29 Dec 2000 16:31 Operator: TAG/VR
Sample : QVWBS 122900 C1 Inst : VOA-C
Misc : WATER BLANK SPIKE 25ml DF=1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 29 16:57 2000 Quant Results File: 12290025.RES

Quant Method : C:\HPCHEM\1\DATA\122900\12290025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Fri Dec 29 10:24:33 2000
Response via : Initial Calibration
DataAcq Meth : 12290025

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Pentafluorobenzene	6.48	168	441828	10.00	ug\L		0.00
45) Chlorobenzene-d5	12.78	117	299378	10.00	ug\L		0.00
61) 1,4-Dichlorobenzene-d4	16.90	152	154687	10.00	ug\L		0.01
System Monitoring Compounds							
32) 1,2-Dichloroethane-d4	6.95	65	84053	9.59	ug\L		0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 95.90%				
46) Toluene-d8	10.27	98	439536	9.92	ug\L		0.00
Spiked Amount 10.000	Range 87 - 104		Recovery = 99.20%				
65) Bromofluorobenzene	14.87	95	209008	9.75	ug\L		0.00
Spiked Amount 10.000	Range 84 - 110		Recovery = 97.50%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.59	85	310413	10.83	ug\L		100
3) Chloromethane	1.78	50	105396	10.64	ug\L		99
4) Vinyl Chloride	1.83	62	128081	9.38	ug\L		99
5) Bromomethane	2.15	94	120210	9.92	ug\L		97
6) Chloroethane	2.22	64	78072	10.86	ug\L		97
7) Trichlorofluoromethane	2.43	101	380654	9.73	ug\L	#	100
8) Acrolein	3.78	56	2225	8.94	ug\L	#	70
9) Acrylonitrile	3.87	53	9055	19.02	ug\L	#	86
10) 1,1-Dichloroethene	2.93	96	146565	9.99	ug\L		98
11) Acetone	3.02	58	1325	12.39	ug\L	#	48
12) Iodomethane	3.12	142	176315	8.23	ug\L		99
13) Allylchloride	3.35	39	114936	9.83	ug\L	#	22
14) Carbon Disulfide	3.17	76	347214	11.96	ug\L	#	75
15) Acetonitrile	3.34	41	171531	98.92	ug\L		93
16) Methylene Chloride	3.52	86	72439	9.68	ug\L	#	37
17) trans-1,2-Dichloroethene	3.82	96	151165	10.20	ug\L		95
18) MethylTertButylEther	3.81	73	118589	9.86	ug\L		96
19) 1,1-Dichloroethane	4.44	63	240832	10.24	ug\L		99
20) Vinyl Acetate	3.80	43	15206	5.65	ug\L	#	73
21) 2,2-Dichloropropane	5.41	77	243858	9.46	ug\L		96
22) cis-1,2-Dichloroethene	5.48	96	129640	10.36	ug\L		94
23) 2-Butanone	5.59	72	640	6.34	ug\L	#	1
24) Propionitrile	5.76	54	7155	65.55	ug\L	#	57
25) Methacrylonitrile	5.96	41	115445	101.95	ug\L		99
26) Bromochloromethane	5.92	128	50095	10.51	ug\L	#	76
27) Chloroform	6.09	83	276669	9.86	ug\L		98
28) 1,1,1-Trichloroethane	6.31	97	319325	9.59	ug\L	#	75
29) Carbon Tetrachloride	6.58	119	291488	9.75	ug\L	#	78
31) 1,1-Dichloropropene	6.60	77	78061	9.66	ug\L	#	1

(#) = qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\122900\C18252.D Vial: 3
Acq On : 29 Dec 2000 16:31 Operator: TAG/VR
Sample : QVWBS 122900 C1 Inst : VOA-C
Misc : WATER BLANK SPIKE 25ml DF=1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 29 16:57 2000 Quant Results File: 12290025.RES

Quant Method : C:\HPCHEM\1\DATA\122900\12290025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Fri Dec 29 10:24:33 2000
Response via : Initial Calibration
DataAcq Meth : 12290025

Compound	R.T.	QIon	Response	Conc Unit		Qvalue
33) Benzene	6.98	78	403173	10.09 ug\L		100
34) Isobutyl alcohol	7.15	43	13649	199.77 ug\L	#	44
35) 1,2-Dichloroethane	7.10	62	99870	9.74 ug\L		99
36) Trichloroethene	8.15	95	204478	9.77 ug\L		92
37) 1,2-Dichloropropane	8.56	63	114826	9.63 ug\L	#	95
38) Dibromomethane	8.80	93	53664	10.09 ug\L	#	85
39) Methylmethacrylate	8.87	69	20995	10.49 ug\L		92
40) Bromodichloromethane	9.11	83	194359	10.18 ug\L		98
41) 2-Nitropropane	9.54	43	5088	9.53 ug\L	#	100
42) 2-Chloroethyl-vinyl ether	9.70	63	64	2.89 ug\L	#	47
43) cis-1,3-Dichloropropene	9.88	75	139185	10.10 ug\L		97
44) 4-Methyl-2-Pentanone	10.18	85	1986	3.51 ug\L	#	1
47) Toluene	10.39	92	285515	10.03 ug\L		99
48) trans-1,3-Dichloropropene	10.88	75	91005	10.02 ug\L		96
49) Ethylmethacrylate	11.07	69	53266	9.94 ug\L	#	98
50) 1,1,2-Trichloroethane	11.18	83	52045	10.06 ug\L		97
51) Tetrachloroethene	11.32	164	185028	9.75 ug\L		94
52) 1,3-Dichloropropane	11.46	76	100302	10.52 ug\L		98
53) 2-Hexanone	11.68	43	13458	9.76 ug\L	#	94
54) Dibromochloromethane	11.84	129	108584	10.63 ug\L		99
55) 1,2-Dibromoethane	11.98	107	69127	10.20 ug\L	#	97
56) Chlorobenzene	12.83	112	320692	9.89 ug\L		95
57) 1,1,1,2-Tetrachloroethane	13.01	131	138347	10.14 ug\L		95
58) Ethylbenzene	13.03	91	590508	10.19 ug\L		99
59) total-Xylene	13.92	106	256990m	30.05 ug\L		
60) Styrene	13.97	104	293856	10.20 ug\L		96
62) Bromoform	14.33	173	48877	9.68 ug\L		98
63) Isopropylbenzene	14.58	105	716895	9.54 ug\L		98
64) 1,4-dichloro-2-Butene	15.27	75	46196	9.64 ug\L	#	100
66) Bromobenzene	15.08	156	131920	10.32 ug\L	#	58
67) 1,1,2,2-Tetrachloroethane	15.23	83	60062	10.24 ug\L		100
68) 1,2,3-Trichloropropane	15.27	75	46196	9.63 ug\L	#	100
69) n-Propylbenzene	15.31	91	810276	10.05 ug\L		97
70) 2-Chlorotoluene	15.44	91	411647	9.33 ug\L		94
71) 4-Chlorotoluene	15.64	91	568494	9.68 ug\L		98
72) 1,3,5-Trimethylbenzene	15.64	105	556617	9.67 ug\L		89
73) Pentachloroethane	16.25	167	87075	10.31 ug\L		97
74) tert-Butylbenzene	16.21	119	677135	9.71 ug\L		97
75) 1,2,4-Trimethylbenzene	16.30	105	535815	9.92 ug\L		99
76) sec-Butylbenzene	16.58	105	837110	9.67 ug\L		96
77) 1,3-Dichlorobenzene	16.77	146	236305	9.59 ug\L		96
78) Isopropyltoluene	16.87	119	665199	9.82 ug\L		98

(#) = qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\122900\C18252.D Vial: 3
Acq On : 29 Dec 2000 16:31 Operator: TAG/VR
Sample : QVWBS 122900 C1 Inst : VOA-C
Misc : WATER BLANK SPIKE 25ml DF=1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 29 16:57 2000 Quant Results File: 12290025.RES

Quant Method : C:\HPCHEM\1\DATA\122900\12290025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Fri Dec 29 10:24:33 2000
Response via : Initial Calibration
DataAcq Meth : 12290025

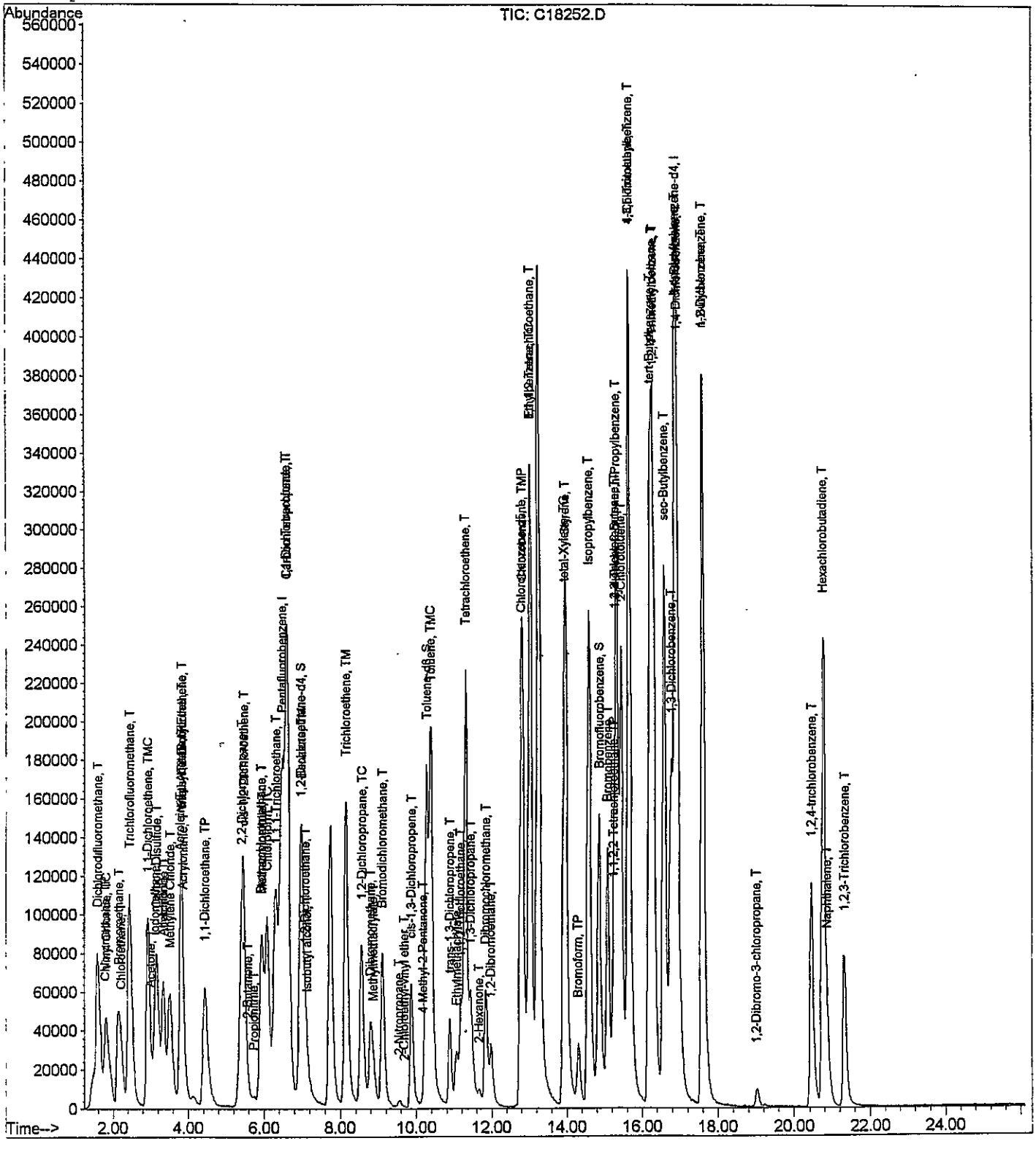
	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
79)	1,4-Dichlorobenzene	16.94	146	272734	9.88	ug\L	97
80)	1,2-Dichlorobenzene	17.58	146	192538	9.94	ug\L	98
81)	n-Butylbenzene	17.60	91	651871	9.90	ug\L	93
82)	1,2-Dibromo-3-chloropropan	19.02	75	9956	9.43	ug\L #	85
83)	1,2,4-trichlorobenzene	20.46	180	136509	9.82	ug\L	100
84)	Hexachlorobutadiene	20.78	225	193053	9.79	ug\L	100
85)	Naphthalene	20.88	128	90617	9.07	ug\L	100
86)	1,2,3-Trichlorobenzene	21.34	180	96623	9.91	ug\L	98

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\122900\C18252.D Vial: 3
Acq On : 29 Dec 2000 16:31 Operator: TAG/VR
Sample : QVWBS 122900 C1 Inst : VOA-C
Misc : WATER BLANK SPIKE 25ml DF=1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 29 16:57 2000 Quant Results File: 12290025.RES

Method : C:\HPCHEM\1\DATA\122900\12290025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Fri Dec 29 08:48:11 2000
Response via : Initial Calibration



VOA GC/MS CALIBRATION CHECKLIST
SW-846-8260B

DATE / INSTRUMENT: 12/28/00 / C	METHOD: 8260B
MATRIX: water - 25ml	

Are all standards within expiration dates for both stock and serial standards?	(Y)	N	NA
Are Tuning results compliant with method?	(Y)	N	NA
Are all Initial Calibration RSDs compliant for CCCs and non-CCC compounds?	(Y)	N	NA
If RSDs are non-compliant, was initial calibration curve constructed using one of the alternative methods from method 8000B? (List analytes below)	(Y)	N	NA

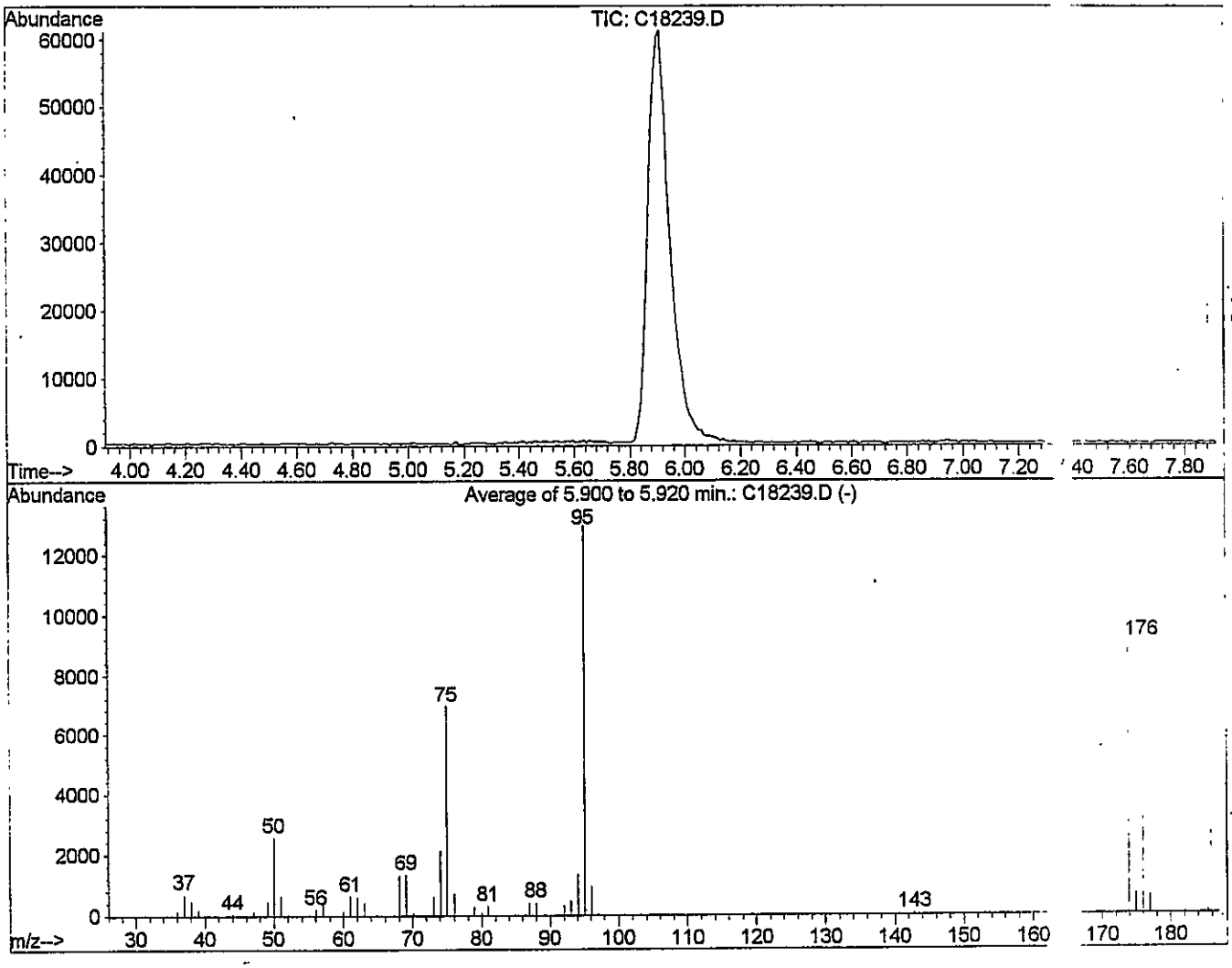
Is the runlog completely filled out (including review signature/date)? (Y) N NA

Are all mistakes single lined, initialled, and dated? (Y) N NA

Analyst: VR	Reviewer: Thomas A. Gatti
Date: 12/29/00 Time: 14:10	Date: 12/29/00 Time: 17:10

BFB

Data File : C:\HPCHEM\1\DATA\122800A\C18239.D Vial: 1
Acq On : 28 Dec 2000 15:59 Operator: TAG/VR
Sample : BFB 50ng V00048 Inst : VOA-C
Misc : QC Multiplr: 1.00
MS Integration Params: rteint.p
Method : C:\HPCHEM\1\METHODS\BFB01.M (RTE Integrator)
Title :



AutoFind: Scans 475, 476, 477; Background Corrected with Scan 46.3

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	19.8	2568	PASS
75	95	30	60	53.8	6981	PASS
95	95	100	100	100.0	12968	PASS
96	95	5	9	7.3	941	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	69.5	9017	PASS
175	174	5	9	7.6	681	PASS
176	174	95	101	100.7	9081	PASS
177	176	5	9	6.8	620	PASS

C18239.D BFB01.M Thu Dec 28 16:12:02 2000 RPT1 .

Response Factor Report VOA-C

Method : C:\HPCHEM\1\DATA\122800A\12280025.M (RTE Integrat)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Fri Dec 29 08:38:15 2000
Response via : Initial Calibration

Calibration Files
1 =C18242.D 4 =C18241.D 10 =C18240.D
20 =C18243.D 30 =C18244.D 40 =C18245.D

		Compound	1	4	10	20	30	40	Avg	RSD
1)	I	Pentafluorobenzene	ISTD							
2)	T	Dichlorodifluoromet	0.652	0.624	0.621	0.664	0.649	0.682	0.649	3.58
3)	TP	Chloromethane	0.228	0.225	0.209	0.227	0.226	0.232	0.224	3.59
4)	TC	Vinyl Chloride	0.301	0.303	0.297	0.319	0.310	0.323	0.309	3.28
5)	T	Bromomethane	0.335	0.292	0.279	0.256	0.241	0.242	0.274	13.11
6)	T	Chloroethane	0.166	0.165	0.170	0.163	0.158	0.154	0.163	3.69
7)	T	Trichlorofluorometh	0.872	0.864	0.856	0.905	0.887	0.927	0.885	3.04
8)	T	Acrolein		0.005	0.005	0.006	0.006	0.006	0.006	8.82
9)	T	Acrylonitrile	0.005	0.009	0.010	0.012	0.012	0.012	0.010	27.80
10)	TMC	1,1-Dichloroethene	0.322	0.319	0.325	0.342	0.336	0.348	0.332	3.58
11)	T	Acetone		0.001	0.002	0.003	0.003	0.003	0.002	30.02
12)	T	Iodomethane	0.336	0.394	0.439	0.545	0.529	0.531	0.462	18.67
13)	T	Allylchloride	0.271	0.267	0.256	0.267	0.264	0.263	0.265	1.93
14)	T	Carbon Disulfide	0.619	0.620	0.785	0.621	0.608	0.688	0.657	10.51
15)	T	Acetonitrile	0.039	0.039	0.038	0.041	0.039	0.040	0.039	2.11
16)	T	Methylene Chloride	0.669	0.183	0.148	0.150	0.152	0.161	0.244	85.47
17)	T	trans-1,2-Dichloroe	0.317	0.325	0.326	0.344	0.342	0.358	0.335	4.51
18)	T	MethylTertButylEthe	0.261	0.260	0.250	0.288	0.285	0.289	0.272	6.27
19)	TP	1,1-Dichloroethane	0.524	0.517	0.523	0.543	0.536	0.551	0.532	2.43
20)	T	Vinyl Acetate	0.058	0.060	0.057	0.064	0.062	0.064	0.061	5.06
21)	T	2,2-Dichloropropane	0.484	0.548	0.570	0.623	0.625	0.650	0.583	10.62
22)	T	cis-1,2-Dichloroeth	0.279	0.264	0.275	0.289	0.290	0.302	0.283	4.72
23)	T	2-Butanone		0.002	0.004	0.004	0.007	0.006	0.005	42.28
24)	T	Propionitrile	0.001	0.002	0.002	0.003	0.003	0.004	0.003	43.33
25)	T	Methacrylonitrile	0.025	0.025	0.023	0.027	0.026	0.027	0.026	5.27
26)	T	Bromochloromethane	0.101	0.102	0.103	0.113	0.111	0.117	0.108	6.25
27)	TC	Chloroform	0.628	0.606	0.611	0.652	0.648	0.665	0.635	3.78
28)	T	1,1,1-Trichloroetha	0.702	0.717	0.731	0.772	0.776	0.822	0.753	5.94
29)	T	Carbon Tetrachlorid	0.658	0.644	0.637	0.692	0.696	0.733	0.676	5.45
30)	T	1,4-Dioxane		0.000	0.000	0.001	0.001	0.001	0.000	20.27
31)	T	1,1-Dichloropropene	0.180	0.179	0.183	0.186	0.183	0.187	0.183	1.64
32)	S	1,2-Dichloroethane-	0.204	0.193	0.185	0.204	0.200	0.206	0.198	4.08
33)	TM	Benzene	0.887	0.869	0.885	0.923	0.915	0.945	0.904	3.13
34)	T	Isobutyl alcohol	0.002	0.002	0.001	0.002	0.001	0.001	0.002	19.59
35)	T	1,2-Dichloroethane	0.222	0.221	0.221	0.246	0.238	0.245	0.232	5.25
36)	TM	Trichloroethene	0.471	0.451	0.462	0.481	0.486	0.490	0.473	3.20
37)	TC	1,2-Dichloropropane	0.254	0.261	0.256	0.279	0.283	0.287	0.270	5.48
38)	T	Dibromomethane	0.118	0.107	0.112	0.128	0.126	0.131	0.120	7.83
39)	T	Methylmethacrylate	0.037	0.039	0.042	0.051	0.051	0.051	0.045	14.42
40)	T	Bromodichloromethan	0.378	0.387	0.405	0.462	0.469	0.493	0.432	11.18
41)	T	2-Nitropropane	0.003	0.007	0.010	0.014	0.015	0.014	0.010	43.69
42)	T	2-Chloroethyl-vinyl	0.008	0.001	0.001	0.004	0.006	0.004	0.004	72.40
43)	T	cis-1,3-Dichloropro	0.258	0.288	0.297	0.336	0.337	0.356	0.312	11.86
44)	T	4-Methyl-2-Pentanon		0.015	0.014	0.011	0.012	0.011	0.013	13.38

(#) = Out of Range

Response Factor Report VOA-C

Method : C:\HPCHEM\1\DATA\122800A\12280025.M (RTE Integra
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Fri Dec 29 08:38:15 2000
Response via : Initial Calibration

Calibration Files
1 =C18242.D 4 =C18241.D 10 =C18240.D
20 =C18243.D 30 =C18244.D 40 =C18245.D

		Compound	1	4	10	20	30	40	Avg	%RSD
45)	I	Chlorobenzene-d5	----------ISTD----------							
46)	S	Toluene-d8	1.384	1.511	1.498	1.510	1.500	1.481	1.481	3.28
47)	TMC	Toluene	0.879	0.934	0.945	0.984	0.982	0.982	0.951	4.35
48)	T	trans-1,3-Dichlorop	0.227	0.284	0.293	0.330	0.336	0.350	0.303	14.86
49)	T	Ethylmethacrylate	0.127	0.161	0.160	0.188	0.190	0.198	0.171	15.52
50)	T	1,1,2-Trichloroetha	0.152	0.169	0.171	0.182	0.181	0.182	0.173	6.70
51)	T	Tetrachloroethene	0.585	0.633	0.642	0.641	0.639	0.662	0.634	4.08
52)	T	1,3-Dichloropropane	0.288	0.307	0.316	0.332	0.329	0.339	0.318	5.92
53)	T	2-Hexanone	0.040	0.043	0.044	0.052	0.048	0.049	0.046	9.64
54)	T	Dibromochloromethan	0.259	0.324	0.320	0.370	0.379	0.395	0.341	14.77
55)	T	1,2-Dibromoethane	0.179	0.219	0.221	0.243	0.244	0.253	0.226	11.86
56)	TMP	Chlorobenzene	1.058	1.079	1.065	1.077	1.100	1.118	1.083	2.07
57)	T	1,1,1,2-Tetrachloro	0.388	0.439	0.446	0.480	0.483	0.498	0.456	8.85
58)	TC	Ethylbenzene	1.719	1.946	1.959	1.997	2.020	1.977	1.936	5.66
59)	TG	total-Xylene	0.270	0.282	0.287	0.282	0.295	0.299	0.286	3.61
60)	T	Styrene	0.816	0.907	0.979	1.024	1.015	1.033	0.962	8.87
61)	I	1,4-Dichlorobenzene-d	----------ISTD----------							
62)	TP	Bromoform	0.205	0.263	0.293	0.339	0.361	0.394	0.309	22.36
63)	T	Isopropylbenzene	4.522	4.844	4.895	4.877	4.953	5.053	4.857	3.71
64)	T	1,4-dichloro-2-Bute	0.389	0.265	0.275	0.300	0.301	0.329	0.310	14.40
65)	S	Bromofluorobenzene		1.387	1.394	1.375	1.366	1.407	1.386	1.16
66)	T	Bromobenzene	0.754	0.779	0.802	0.842	0.865	0.914	0.826	7.14
67)	TP	1,1,2,2-Tetrachloro	0.341	0.372	0.362	0.398	0.394	0.409	0.379	6.79
68)	T	1,2,3-Trichloroprop	0.389	0.266	0.275	0.300	0.301	0.329	0.310	14.35
69)	T	n-Propylbenzene	4.985	5.217	5.345	5.120	5.295	5.312	5.212	2.64
70)	T	2-Chlorotoluene	2.864	2.828	2.815	2.985	2.743	2.874	2.852	2.82
71)	T	4-Chlorotoluene	3.851	3.670	3.762	3.833	3.776	3.895	3.798	2.09
72)	T	1,3,5-Trimethylbenz	3.545	3.748	3.793	3.732	3.769	3.744	3.755	2.40
73)	T	Pentachloroethane	0.427	0.500	0.537	0.585	0.595	0.633	0.546	13.65
74)	T	tert-Butylbenzene	4.278	4.531	4.525	4.525	4.516	4.664	4.507	2.78
75)	T	1,2,4-Trimethylbenz	3.448	3.513	3.479	3.481	3.487	3.548	3.493	0.98
76)	T	sec-Butylbenzene	5.331	5.616	5.628	5.611	5.617	5.773	5.596	2.57
77)	T	1,3-Dichlorobenzene	1.564	1.578	1.603	1.557	1.609	1.645	1.593	2.07
78)	T	Isopropyltoluene	4.094	4.390	4.449	4.420	4.388	4.528	4.378	3.39
79)	T	1,4-Dichlorobenzene	1.846	1.781	1.682	1.783	1.736	1.875	1.784	3.96
80)	T	1,2-Dichlorobenzene	1.279	1.241	1.220	1.236	1.240	1.298	1.252	2.35
81)	T	n-Butylbenzene	3.881	4.213	4.331	4.329	4.365	4.421	4.257	4.61
82)	T	1,2-Dibromo-3-chlor	0.046	0.060	0.059	0.073	0.076	0.075	0.065	18.14
83)	T	1,2,4-trichlorobenz	0.916	0.845	0.837	0.910	0.923	0.964	0.899	5.44
84)	T	Hexachlorobutadiene	1.299	1.366	1.323	1.280	1.206	1.177	1.275	5.62
85)	T	Naphthalene	0.978	0.686	0.555	0.637	0.677	0.735	0.711	20.22
86)	T	1,2,3-Trichlorobenz	0.677	0.631	0.577	0.618	0.626	0.654	0.630	5.37

(#) = Out of Range

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\122800A\C18242.D Vial: 3
Acq On : 28 Dec 2000 17:21 Operator: TAG/VR
Sample : ICAL 1 ppb (V00083,V00057) Inst : V0A-C
Misc : QC Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 29 8:38 2000 Quant Results File: 12280025.RES

Quant Method : c:\hpchem\1\data\122800A\12280025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Tue Dec 12 10:52:52 2000
Response via : Initial Calibration
DataAcq Meth : 12280025

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Pentafluorobenzene	6.48	168	416006	10.00	ug\L		0.01
45) Chlorobenzene-d5	12.79	117	302874	10.00	ug\L		0.00
61) 1,4-Dichlorobenzene-d4	16.90	152	146495	10.00	ug\L		0.00
System Monitoring Compounds							
32) 1,2-Dichloroethane-d4	6.94	65	8483	0.94	ug\L		-0.03
Spiked Amount 10.000	Range 80 - 120		Recovery =	9.40%		#	
46) Toluene-d8	10.27	98	41924m	0.96	ug\L		0.00
Spiked Amount 10.000	Range 87 - 104		Recovery =	9.60%		#	
65) Bromofluorobenzene	14.85	95	22018	1.11	ug\L		-0.02
Spiked Amount 10.000	Range 84 - 110		Recovery =	11.0%		#	
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.61	85	27118	1.10	ug\L		99
3) Chloromethane	1.78	50	9467	1.15	ug\L		96
4) Vinyl Chloride	1.84	62	12536	1.07	ug\L		96
6) Chloroethane	2.21	64	6920	1.14	ug\L	#	69
7) Trichlorofluoromethane	2.40	101	36281	0.99	ug\L	#	100
8) Acrolein	3.81	56	126	9.19	ug\L	#	95
9) Acrylonitrile	3.86	53	408m	1.52	ug\L		
10) 1,1-Dichloroethene	2.93	96	13416	1.02	ug\L		96
11) Acetone	2.64	58	0m	3.94	ug\L		
12) Iodomethane	3.10	142	13961m	1.81	ug\L		
13) Allylchloride	3.35	39	11286m	1.01	ug\L		
14) Carbon Disulfide	3.17	76	25767	1.05	ug\L		97
15) Acetonitrile	3.31	41	16126	10.05	ug\L	#	34
16) Methylene Chloride	3.51	86	27816m	4.93	ug\L		
17) trans-1,2-Dichloroethene	3.81	96	13198	0.98	ug\L		98
18) MethylTertButylEther	3.81	73	10857m	0.84	ug\L		
19) 1,1-Dichloroethane	4.45	63	21802	1.01	ug\L	#	97
20) Vinyl Acetate	3.81	43	2399m	0.78	ug\L		
21) 2,2-Dichloropropane	5.40	77	20122	0.82	ug\L	#	74
22) cis-1,2-Dichloroethene	5.46	96	11590	0.98	ug\L	#	11
24) Propionitrile	5.77	54	265m	17.71	ug\L		
25) Methacrylonitrile	5.96	41	10574m	8.91	ug\L		
26) Bromochloromethane	5.93	128	4183	0.89	ug\L	#	80
27) Chloroform	6.08	83	26114	0.98	ug\L		98
28) 1,1,1-Trichloroethane	6.30	97	29222	0.92	ug\L	#	34
29) Carbon Tetrachloride	6.60	119	27354	0.96	ug\L	#	3
30) 1,4-Dioxane	8.48	88	70	3.08	ug\L	#	24
31) 1,1-Dichloropropene	6.60	77	7493	1.00	ug\L	#	1
33) Benzene	6.99	78	36912m	1.01	ug\L		

(#) = qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\122800A\C18242.D Vial:
Acq On : 28 Dec 2000 17:21 Operator: [illegible]G/VR
Sample : ICAL 1 ppb (V00083,V00057) Inst : [illegible]A-C
Misc : QC Multiplr: [illegible]00
MS Integration Params: rteint.p
Quant Time: Dec 29 8:38 2000 Quant Results File: [illegible]280025.RES

Quant Method : c:\hpchem\1\data\122800A\12280025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Tue Dec 12 10:52:52 2000
Response via : Initial Calibration
DataAcq Meth : 12280025

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
34)	Isobutyl alcohol	7.08	43	1800m	23.78	ug\l		
35)	1,2-Dichloroethane	7.08	62	9238	0.90	ug\l	#	83
36)	Trichloroethene	8.14	95	19580	1.00	ug\l		95
37)	1,2-Dichloropropane	8.58	63	10558	0.91	ug\l	#	89
38)	Dibromomethane	8.81	93	4918m	0.91	ug\l		
39)	Methylmethacrylate	8.90	69	1544m	0.69	ug\l		
40)	Bromodichloromethane	9.10	83	15706m	0.80	ug\l		
43)	cis-1,3-Dichloropropene	9.88	75	10730	0.74	ug\l		95
44)	4-Methyl-2-Pentanone	10.24	85	61m	-3.24	ug\l		
47)	Toluene	10.38	92	26611	0.98	ug\l		97
48)	trans-1,3-Dichloropropene	10.88	75	6887m	0.69	ug\l		
49)	Ethylmethacrylate	11.09	69	3849m	0.66	ug\l		
50)	1,1,2-Trichloroethane	11.19	83	4615	0.88	ug\l		91
51)	Tetrachloroethene	11.31	164	17711	0.99	ug\l		92
52)	1,3-Dichloropropane	11.45	76	8726	0.86	ug\l	#	42
53)	2-Hexanone	11.72	43	1199m	0.79	ug\l		
54)	Dibromochloromethane	11.85	129	7842	0.69	ug\l		97
55)	1,2-Dibromoethane	11.98	107	5417	0.73	ug\l	#	94
56)	Chlorobenzene	12.83	112	32036m	1.03	ug\l		
57)	1,1,1,2-Tetrachloroethane	13.01	131	11743m	0.82	ug\l		
58)	Ethylbenzene	13.04	91	52076	0.92	ug\l		100
59)	total-Xylene	13.93	106	24508m	2.90	ug\l		
60)	Styrene	13.97	104	24702m	0.83	ug\l		
62)	Bromoform	14.33	173	3007m	1.25	ug\l		
63)	Isopropylbenzene	14.59	105	66239	1.04	ug\l		99
64)	1,4-dichloro-2-Butene	15.26	75	5694	1.27	ug\l	#	100
66)	Bromobenzene	15.09	156	11053	0.95	ug\l	#	75
67)	1,1,2,2-Tetrachloroethane	15.24	83	4990m	0.88	ug\l		
68)	1,2,3-Trichloropropane	15.26	75	5694	1.27	ug\l	#	100
69)	n-Propylbenzene	15.32	91	73022	1.06	ug\l		96
70)	2-Chlorotoluene	15.42	91	41963	1.11	ug\l		97
71)	4-Chlorotoluene	15.65	91	56419	1.09	ug\l	#	96
72)	1,3,5-Trimethylbenzene	15.65	105	51931	1.06	ug\l		90
73)	Pentachloroethane	16.25	167	6260m	0.76	ug\l		
74)	tert-Butylbenzene	16.20	119	62675	1.02	ug\l		98
75)	1,2,4-Trimethylbenzene	16.30	105	50505	1.06	ug\l		96
76)	sec-Butylbenzene	16.59	105	78103	1.06	ug\l		98
77)	1,3-Dichlorobenzene	16.76	146	22908	1.02	ug\l		96
78)	Isopropyltoluene	16.87	119	59978	1.00	ug\l		99
79)	1,4-Dichlorobenzene	16.94	146	27050	1.07	ug\l		95
80)	1,2-Dichlorobenzene	17.59	146	18732	1.04	ug\l		97
81)	n-Butylbenzene	17.59	91	56849	0.98	ug\l	#	55

(#) = qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\122800A\C18242.D Vial: 3
Acq On : 28 Dec 2000 17:21 Operator: [illegible]G/VR
Sample : ICAL 1 ppb (V00083,V00057) Inst : [illegible]A-C
Misc : QC Multiplr: [illegible]0
MS Integration Params: rteint.p
Quant Time: Dec 29 8:38 2000 Quant Results File: [illegible]280025.RES

Quant Method : c:\hpchem\1\data\122800A\12280025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Tue Dec 12 10:52:52 2000
Response via : Initial Calibration
DataAcq Meth : 12280025

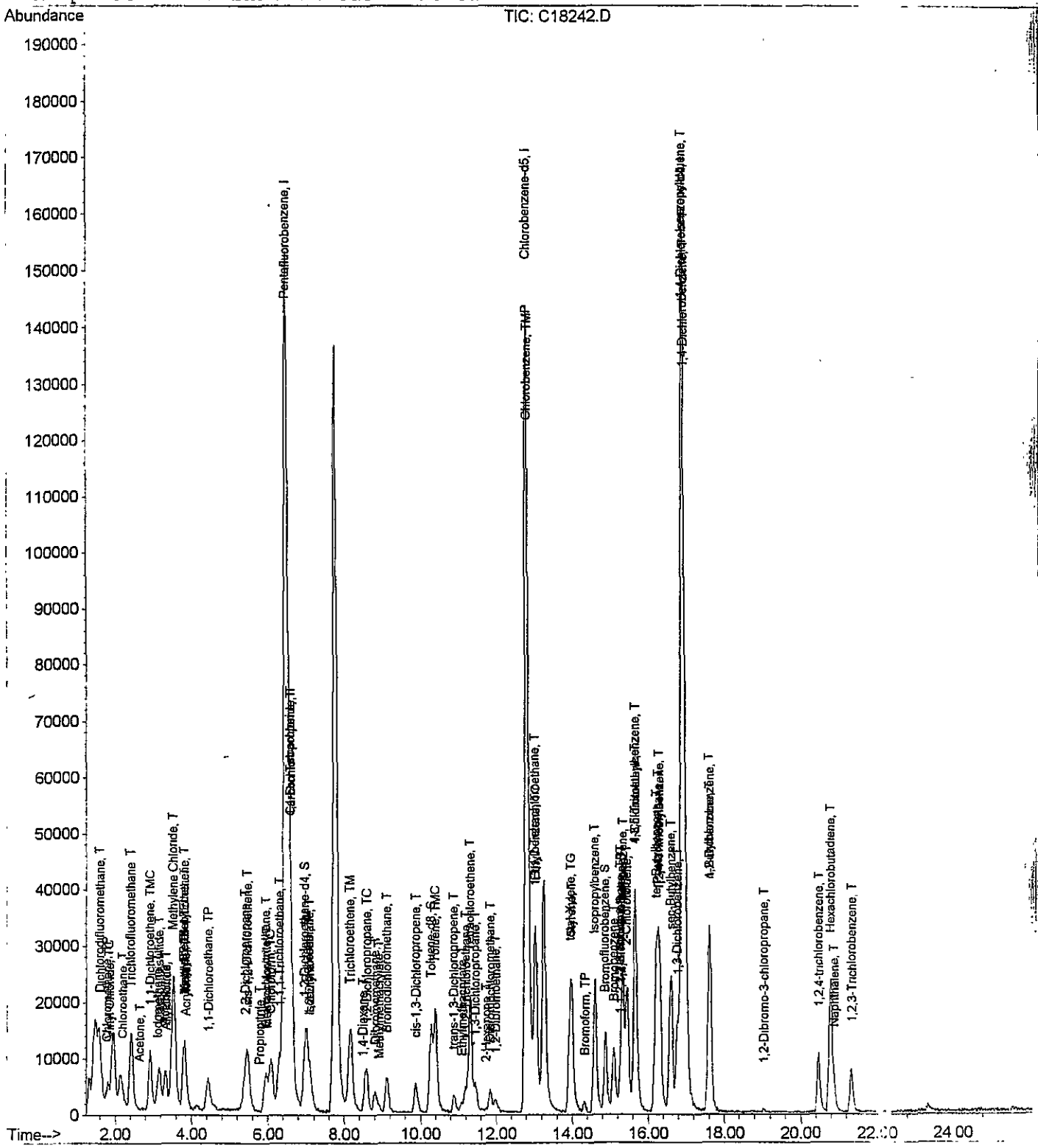
Compound	R.T.	QIon	Response	Conc Unit	Qvalue
82) 1,2-Dibromo-3-chloropropan	19.04	75	675m	0.62 ug\I	
83) 1,2,4-trichlorobenzene	20.47	180	13412	0.92 ug\I	100
84) Hexachlorobutadiene	20.78	225	19027	1.07 ug\I	100
85) Naphthalene	20.89	128	14327m	1.00 ug\I	
86) 1,2,3-Trichlorobenzene	21.34	180	9916m	0.94 ug\I	

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\122800A\C18242.D Vial: 3
Acq On : 28 Dec 2000 17:21 Operator: TAG/VR
Sample : ICAL 1 ppb (V00083,V00057) Inst : HP5A-C
Misc : QC Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 29 8:38 2000 Quant Results File: 12280025.RES

Method : C:\HPCHEM\1\DATA\122800A\12280025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Fri Dec 29 08:48:11 2000
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\122800A\C18241.D Vial: 1
Acq On : 28 Dec 2000 16:50 Operator: TAG/VR
Sample : ICAL 4 ppb (V00083,V00057) Inst : HP5A-C
Misc : QC Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 29 8:34 2000 Quant Results File: 12280025.RES

Quant Method : c:\hpchem\1\data\122800A\12280025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Tue Dec 12 10:52:52 2000
Response via : Initial Calibration
DataAcq Meth : 12280025

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Pentafluorobenzene	6.46	168	413543	10.00	ug\L		0.00
45) Chlorobenzene-d5	12.78	117	273956	10.00	ug\L		0.00
61) 1,4-Dichlorobenzene-d4	16.91	152	140156	10.00	ug\L		0.00
System Monitoring Compounds							
32) 1,2-Dichloroethane-d4	6.97	65	31884	3.54	ug\L		0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 35.40%			#	
46) Toluene-d8	10.28	98	165574	4.21	ug\L		0.00
Spiked Amount 10.000	Range 87 - 104		Recovery = 42.10%			#	
65) Bromofluorobenzene	14.87	95	77772	4.10	ug\L		0.00
Spiked Amount 10.000	Range 84 - 110		Recovery = 41.00%			#	
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.59	85	103292	4.23	ug\L		98
3) Chloromethane	1.78	50	37144	4.52	ug\L		97
4) Vinyl Chloride	1.85	62	50192	4.30	ug\L		99
5) Bromomethane	2.13	94	48229	3.68	ug\L		97
6) Chloroethane	2.21	64	27366	4.54	ug\L		97
7) Trichlorofluoromethane	2.43	101	142899	3.90	ug\L	#	100
8) Acrolein	3.83	56	1653	15.79	ug\L	#	70
9) Acrylonitrile	3.89	53	2928m	6.56	ug\L		
10) 1,1-Dichloroethene	2.93	96	52687	4.03	ug\L		97
11) Acetone	3.82	58	193m	5.54	ug\L		
12) Iodomethane	3.13	142	65131m	4.20	ug\L		
13) Allylchloride	3.33	39	44143	3.96	ug\L	#	33
14) Carbon Disulfide	3.18	76	102494	4.21	ug\L		97
15) Acetonitrile	3.33	41	64196	40.25	ug\L		91
16) Methylene Chloride	3.51	86	30252	5.39	ug\L	#	36
17) trans-1,2-Dichloroethene	3.81	96	53753	4.01	ug\L		99
18) MethylTertButylEther	3.83	73	43059m	3.37	ug\L		
19) 1,1-Dichloroethane	4.43	63	85568	3.97	ug\L		100
20) Vinyl Acetate	3.80	43	9867	3.25	ug\L	#	73
21) 2,2-Dichloropropane	5.42	77	90586	3.70	ug\L		95
22) cis-1,2-Dichloroethene	5.46	96	43659	3.70	ug\L		98
23) 2-Butanone	5.55	72	321m	8.07	ug\L		
24) Propionitrile	5.76	54	3575m	38.54	ug\L		
25) Methacrylonitrile	5.97	41	41483	35.18	ug\L	#	41
26) Bromochloromethane	5.92	128	16903	3.64	ug\L	#	80
27) Chloroform	6.10	83	100259	3.77	ug\L		100
28) 1,1,1-Trichloroethane	6.30	97	118643	3.76	ug\L	#	70
29) Carbon Tetrachloride	6.59	119	106451	3.76	ug\L	#	51
30) 1,4-Dioxane	8.90	88	1034m	45.80	ug\L		

(#) = qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\122800A\C18241.D Vial:
Acq On : 28 Dec 2000 16:50 Operator: [illegible]
Sample : ICAL 4 ppb (V00083,V00057) Inst : [illegible]
Misc : QC Multiplr: [illegible]
MS Integration Params: rteint.p
Quant Time: Dec 29 8:34 2000 Quant Results File: [illegible]280025.RES

Quant Method : c:\hpchem\1\data\122800A\12280025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Tue Dec 12 10:52:52 2000
Response via : Initial Calibration
DataAcq Meth : 12280025

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
31)	1,1-Dichloropropene	6.62	77	29624	3.99	ug\l	#	1
33)	Benzene	6.97	78	143775	3.97	ug\l		100
34)	Isobutyl alcohol	7.17	43	6416m	96.78	ug\l		
35)	1,2-Dichloroethane	7.10	62	36487	3.57	ug\l		97
36)	Trichloroethene	8.16	95	74552	3.81	ug\l		91
37)	1,2-Dichloropropane	8.56	63	43202	3.76	ug\l		98
38)	Dibromomethane	8.79	93	17709	3.28	ug\l	#	78
39)	Methylmethacrylate	8.87	69	6460	2.90	ug\l	#	77
40)	Bromodichloromethane	9.11	83	63971	3.27	ug\l		97
41)	2-Nitropropane	9.54	43	1149m	1.87	ug\l		
42)	2-Chloroethyl-vinyl ether	9.58	63	135m	2.37	ug\l		
43)	cis-1,3-Dichloropropene	9.87	75	47615	3.31	ug\l		96
44)	4-Methyl-2-Pentanone	10.21	85	2447m	2.36	ug\l		
47)	Toluene	10.39	92	102298	4.16	ug\l		98
48)	trans-1,3-Dichloropropene	10.89	75	31120m	3.44	ug\l		
49)	Ethylmethacrylate	11.09	69	17669m	3.34	ug\l		
50)	1,1,2-Trichloroethane	11.20	83	18501	3.90	ug\l		93
51)	Tetrachloroethene	11.31	164	69410	4.28	ug\l		93
52)	1,3-Dichloropropane	11.45	76	33626	3.66	ug\l		98
53)	2-Hexanone	11.69	43	4742m	3.44	ug\l		
54)	Dibromochloromethane	11.86	129	35501	3.47	ug\l		95
55)	1,2-Dibromoethane	11.97	107	24014m	3.60	ug\l		
56)	Chlorobenzene	12.82	112	118259	4.20	ug\l		97
57)	1,1,1,2-Tetrachloroethane	13.01	131	48102	3.71	ug\l		94
58)	Ethylbenzene	13.03	91	213193	4.15	ug\l		98
59)	total-Xylene	13.94	106	92834m	12.13	ug\l		
60)	Styrene	13.99	104	99413	3.71	ug\l		94
62)	Bromoform	14.32	173	14731m	3.49	ug\l		
63)	Isopropylbenzene	14.59	105	271585	4.45	ug\l		99
64)	1,4-dichloro-2-Butene	15.27	75	14873m	3.47	ug\l		
66)	Bromobenzene	15.08	156	43674m	3.93	ug\l		
67)	1,1,2,2-Tetrachloroethane	15.24	83	20834	3.84	ug\l		99
68)	1,2,3-Trichloropropane	15.27	75	14914m	3.48	ug\l		
69)	n-Propylbenzene	15.32	91	292494	4.42	ug\l		96
70)	2-Chlorotoluene	15.43	91	158535m	4.40	ug\l		
71)	4-Chlorotoluene	15.64	91	205757	4.16	ug\l		97
72)	1,3,5-Trimethylbenzene	15.64	105	210110	4.48	ug\l		89
73)	Pentachloroethane	16.25	167	28042	3.57	ug\l		98
74)	tert-Butylbenzene	16.21	119	254024	4.34	ug\l		98
75)	1,2,4-Trimethylbenzene	16.29	105	196927	4.33	ug\l		99
76)	sec-Butylbenzene	16.59	105	314838	4.45	ug\l		95
77)	1,3-Dichlorobenzene	16.78	146	88493	4.12	ug\l		97

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\122800A\C18241.D Vial:
Acq On : 28 Dec 2000 16:50 Operator:
Sample : ICAL 4 ppb (V00083,V00057) Inst :
Misc : QC Multiplr:
MS Integration Params: rteint.p
Quant Time: Dec 29 8:34 2000 Quant Results File: 280025.RES

Quant Method : c:\hpchem\1\data\122800A\12280025.M (RTE Integra
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Tue Dec 12 10:52:52 2000
Response via : Initial Calibration
DataAcq Meth : 12280025

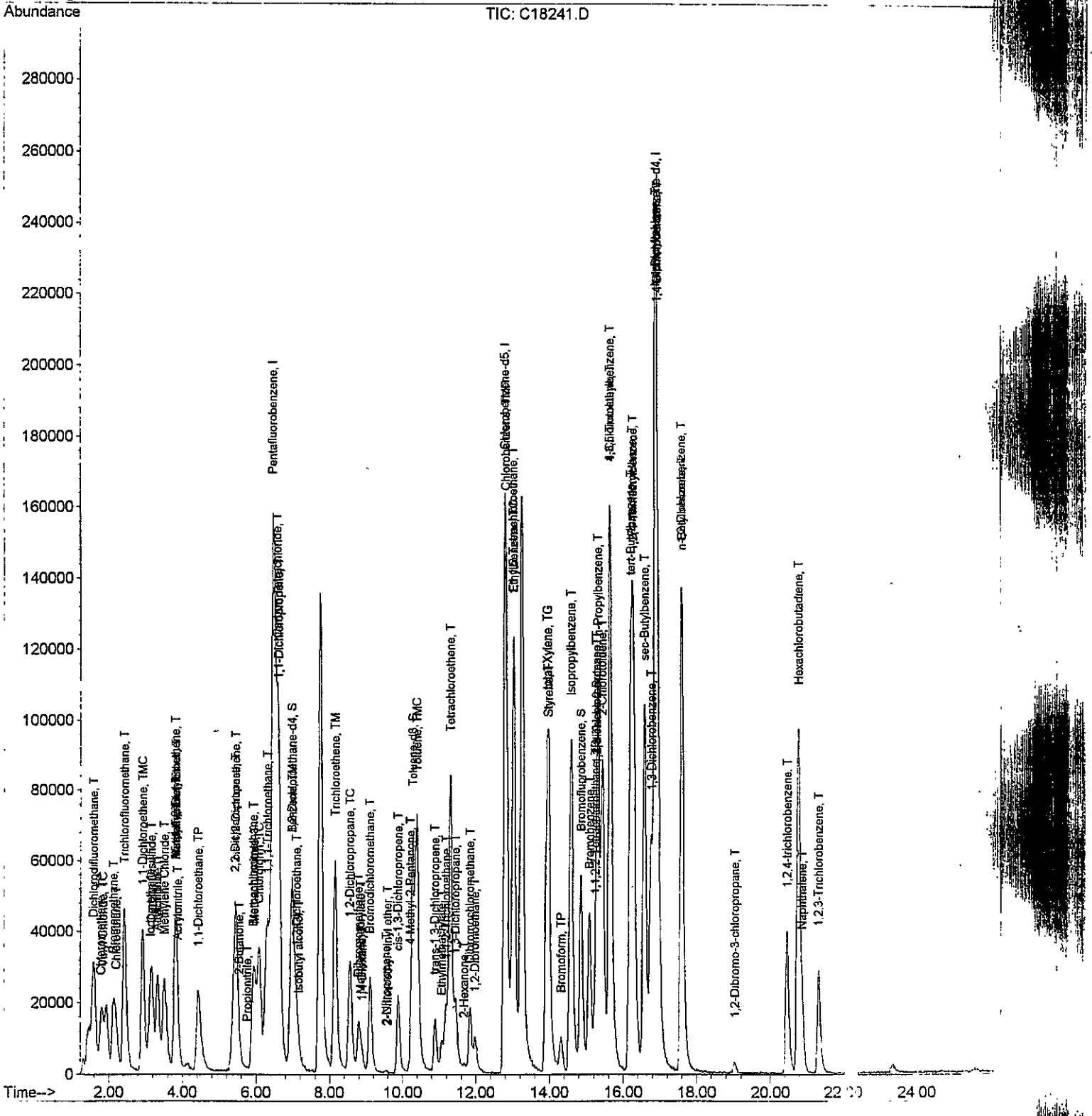
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
78)	Isopropyltoluene	16.88	119	246120	4.31	ug\l		97
79)	1,4-Dichlorobenzene	16.94	146	99837	4.12	ug\l		100
80)	1,2-Dichlorobenzene	17.59	146	69570	4.05	ug\l		98
81)	n-Butylbenzene	17.61	91	236216	4.26	ug\l		94
82)	1,2-Dibromo-3-chloropropan	19.06	75	3338	3.19	ug\l	#	80
83)	1,2,4-trichlorobenzene	20.47	180	47350m	3.40	ug\l		
84)	Hexachlorobutadiene	20.76	225	76603	4.51	ug\l		100
85)	Naphthalene	20.88	128	38446m	3.35	ug\l		
86)	1,2,3-Trichlorobenzene	21.32	180	35369m	3.52	ug\l		

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\122800A\C18241.D Vial: -
Acq On : 28 Dec 2000 16:50 Operator: TAG/VR
Sample : ICAL 4 ppb (V00083,V00057) Inst : V0A-C
Misc : QC Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 29 8:34 2000 Quant Results File: 12280025.RES

Method : C:\HPCHEM\1\DATA\122800A\12280025.M (RTE Integrat)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Fri Dec 29 08:48:11 2000
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\122800A\C18240.D Vial:
Acq On : 28 Dec 2000 16:20 Operator: [illegible]G/VR
Sample : ICAL 10 ppb (V00083,V00057) Inst : [illegible]A-C
Misc : QC Multiplr: [illegible]00
MS Integration Params: rteint.p
Quant Time: Dec 29 8:30 2000 Quant Results File: [illegible]280025.RES

Quant Method : c:\hpchem\1\data\122800A\12280025.M (RTE Integrat[illegible])
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Tue Dec 12 10:52:52 2000
Response via : Initial Calibration
DataAcq Meth : 12280025

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Pentafluorobenzene	6.46	168	408233	10.00	ug\l		0.00
45) Chlorobenzene-d5	12.78	117	269417	10.00	ug\l		0.00
61) 1,4-Dichlorobenzene-d4	16.89	152	136003	10.00	ug\l		-0.01
System Monitoring Compounds							
32) 1,2-Dichloroethane-d4	6.96	65	75499	8.50	ug\l		-0.01
Spiked Amount 10.000	Range 80 - 120		Recovery = 85.00%				
46) Toluene-d8	10.28	98	403487	10.42	ug\l		0.00
Spiked Amount 10.000	Range 87 - 104		Recovery = 104.00%				
65) Bromofluorobenzene	14.87	95	189653	10.32	ug\l		0.00
Spiked Amount 10.000	Range 84 - 110		Recovery = 103.00%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.58	85	253354	10.51	ug\L		99
3) Chloromethane	1.77	50	85126	10.49	ug\l		100
4) Vinyl Chloride	1.84	62	121413	10.54	ug\l		100
5) Bromomethane	2.13	94	113916	11.57	ug\l		98
6) Chloroethane	2.20	64	69410	11.67	ug\l		97
7) Trichlorofluoromethane	2.44	101	349621	9.67	ug\l	#	100
8) Acrolein	3.81	56	4241m	27.21	ug\l		
9) Acrylonitrile	3.86	53	7825m	16.55	ug\l		
10) 1,1-Dichloroethene	2.92	96	132521	10.26	ug\l		98
11) Acetone	3.04	58	867m	11.25	ug\l		
12) Iodomethane	3.12	142	179276	9.64	ug\L		100
13) Allylchloride	3.33	39	104537	9.49	ug\l	#	22
14) Carbon Disulfide	3.17	76	320434	13.33	ug\l		95
15) Acetonitrile	3.35	41	156566	99.43	ug\l		93
16) Methylene Chloride	3.51	86	60474	10.92	ug\l	#	35
17) trans-1,2-Dichloroethene	3.82	96	133180	10.07	ug\l		97
18) MethylTertButylEther	3.81	73	101999	8.08	ug\l		95
19) 1,1-Dichloroethane	4.44	63	213567	10.04	ug\l		100
20) Vinyl Acetate	3.80	43	23454m	7.82	ug\L		
21) 2,2-Dichloropropane	5.42	77	232830	9.63	ug\L		95
22) cis-1,2-Dichloroethene	5.47	96	112367	9.65	ug\L		95
23) 2-Butanone	5.54	72	1577m	12.73	ug\L		
24) Propionitrile	5.79	54	9834m	78.71	ug\l		
25) Methacrylonitrile	5.95	41	95509	82.05	ug\l		97
26) Bromochloromethane	5.92	128	42191	9.19	ug\l		84
27) Chloroform	6.10	83	249252	9.49	ug\L		99
28) 1,1,1-Trichloroethane	6.31	97	298450	9.57	ug\l	#	77
29) Carbon Tetrachloride	6.59	119	259969	9.30	ug\l	#	76
30) 1,4-Dioxane	8.96	88	3692m	165.67	ug\L		

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\122800A\C18240.D Vial: 1
Acq On : 28 Dec 2000 16:20 Operator: T G/VR
Sample : ICAL 10 ppb (V00083,V00057) Inst : A-C
Misc : QC Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 29 8:30 2000 Quant Results File: 280025.RES

Quant Method : c:\hpchem\1\data\122800A\12280025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Tue Dec 12 10:52:52 2000
Response via : Initial Calibration
DataAcq Meth : 12280025

	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
31)	1,1-Dichloropropene	6.60	77	74758	10.19 ug\L	#	1
33)	Benzene	6.99	78	361258	10.11 ug\L		100
34)	Isobutyl alcohol	7.17	43	11600m	180.95 ug\L		
35)	1,2-Dichloroethane	7.09	62	90261	8.96 ug\L	#	87
36)	Trichloroethene	8.16	95	188687	9.77 ug\L		92
37)	1,2-Dichloropropane	8.55	63	104305	9.21 ug\L	#	96
38)	Dibromomethane	8.79	93	45880	8.60 ug\L	#	84
39)	Methylmethacrylate	8.87	69	17326	7.89 ug\L		89
40)	Bromodichloromethane	9.12	83	165415	8.57 ug\L		99
41)	2-Nitropropane	9.54	43	4129m	6.79 ug\L		
42)	2-Chloroethyl-vinyl ether	9.67	63	444m	2.51 ug\L		
43)	cis-1,3-Dichloropropene	9.88	75	121181	8.52 ug\L		99
44)	4-Methyl-2-Pentanone	10.21	85	5906m	10.66 ug\L		
47)	Toluene	10.39	92	254639	10.52 ug\L		99
48)	trans-1,3-Dichloropropene	10.88	75	78987	8.87 ug\L		96
49)	Ethylmethacrylate	11.08	69	43225	8.32 ug\L	#	99
50)	1,1,2-Trichloroethane	11.19	83	46060	9.88 ug\L		93
51)	Tetrachloroethene	11.31	164	172877	10.83 ug\L		93
52)	1,3-Dichloropropane	11.45	76	85007	9.41 ug\L		97
53)	2-Hexanone	11.67	43	11979m	8.83 ug\L		
54)	Dibromochloromethane	11.85	129	86137	8.55 ug\L		99
55)	1,2-Dibromoethane	11.99	107	59448m	9.05 ug\L		
56)	Chlorobenzene	12.83	112	286883	10.35 ug\L		96
57)	1,1,1,2-Tetrachloroethane	13.01	131	120223	9.43 ug\L		96
58)	Ethylbenzene	13.03	91	527682	10.43 ug\L		98
59)	total-Xylene	13.93	106	231572m	30.77 ug\L		
60)	Styrene	13.98	104	263789	10.02 ug\L		97
62)	Bromoform	14.31	173	39906m	8.46 ug\L		
63)	Isopropylbenzene	14.59	105	665673	11.25 ug\L		98
64)	1,4-dichloro-2-Butene	15.27	75	37447	9.01 ug\L	#	100
66)	Bromobenzene	15.09	156	109137	10.13 ug\L	#	63
67)	1,1,2,2-Tetrachloroethane	15.25	83	49201	9.36 ug\L		99
68)	1,2,3-Trichloropropane	15.27	75	37447	9.01 ug\L	#	100
69)	n-Propylbenzene	15.31	91	726995	11.33 ug\L		96
70)	2-Chlorotoluene	15.43	91	382881m	10.95 ug\L		
71)	4-Chlorotoluene	15.63	91	511617	10.65 ug\L		99
72)	1,3,5-Trimethylbenzene	15.64	105	515907	11.33 ug\L		89
73)	Pentachloroethane	16.26	167	72973	9.57 ug\L		98
74)	tert-Butylbenzene	16.21	119	615444	10.84 ug\L		96
75)	1,2,4-Trimethylbenzene	16.30	105	473215	10.72 ug\L		99
76)	sec-Butylbenzene	16.58	105	765379	11.15 ug\L		97
77)	1,3-Dichlorobenzene	16.76	146	217982	10.46 ug\L		98

(#) = qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\122800A\C18240.D Vial:
Acq On : 28 Dec 2000 16:20 Operator: .G/VR
Sample : ICAL 10 ppb (V00083,V00057) Inst : A-C
Misc : QC Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 29 8:30 2000 Quant Results File: 12280025.RES

Quant Method : c:\hpchem\1\data\122800A\12280025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Tue Dec 12 10:52:52 2000
Response via : Initial Calibration
DataAcq Meth : 12280025

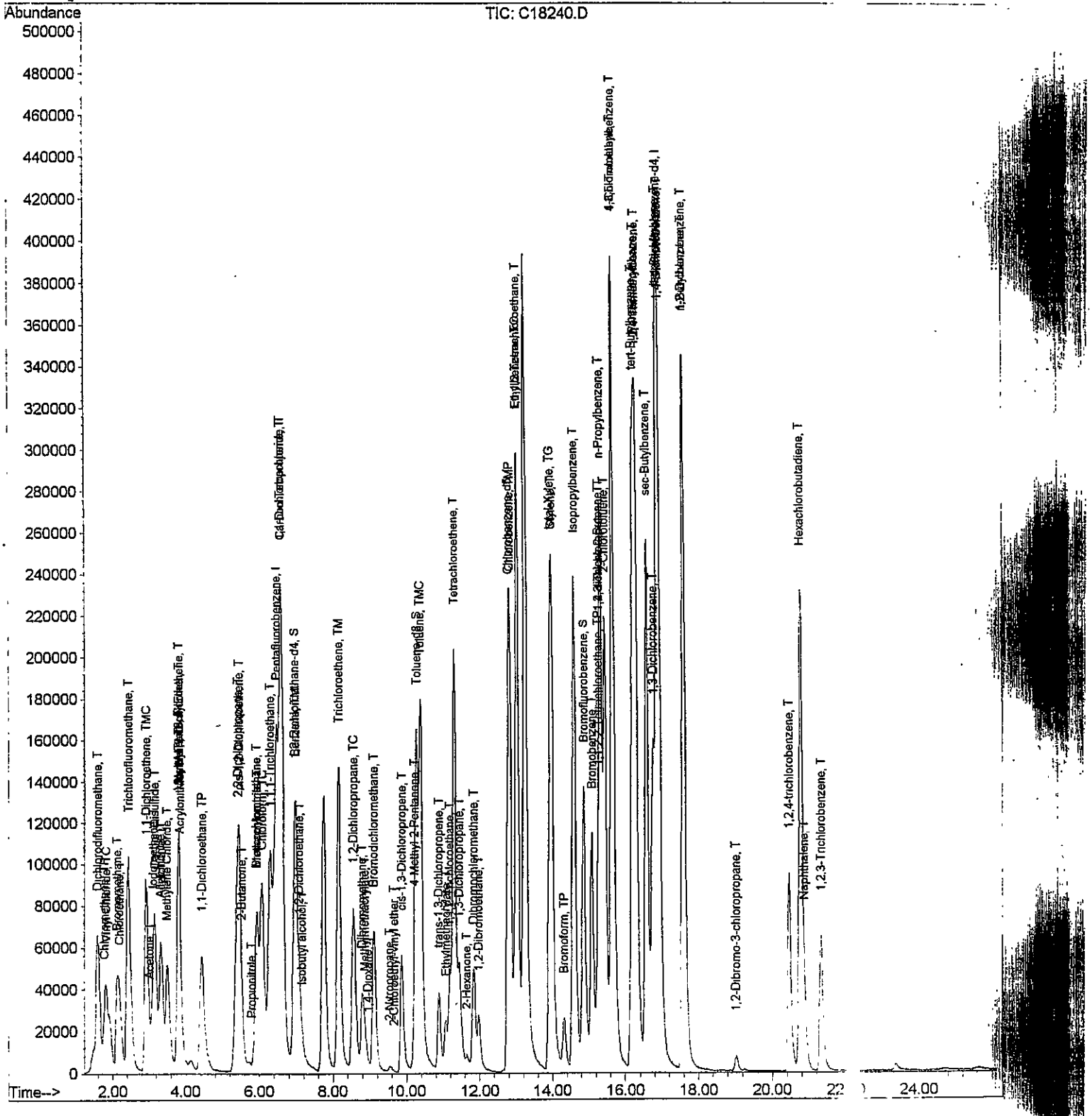
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
78)	Isopropyltoluene	16.87	119	605056	10.92	ug\l		99
79)	1,4-Dichlorobenzene	16.94	146	228784	9.74	ug\l		97
80)	1,2-Dichlorobenzene	17.58	146	165969	9.96	ug\l		99
81)	n-Butylbenzene	17.60	91	588994	10.96	ug\l		92
82)	1,2-Dibromo-3-chloropropan	19.03	75	8048	7.91	ug\l	#	56
83)	1,2,4-trichlorobenzene	20.46	180	113861	8.42	ug\l		100
84)	Hexachlorobutadiene	20.76	225	179922	10.91	ug\l		100
85)	Naphthalene	20.88	128	75515m	7.08	ug\l		
86)	1,2,3-Trichlorobenzene	21.33	180	78463m	8.05	ug\l		

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\122800A\C18240.D Vial:
Acq On : 28 Dec 2000 16:20 Operator: [illegible]G/VR
Sample : ICAL 10 ppb (V00083,V00057) Inst : [illegible]A-C
Misc : QC Multiplr: [illegible]00
MS Integration Params: rteint.p
Quant Time: Dec 29 8:30 2000 Quant Results File: [illegible]280025.RES

Method : C:\HPCHEM\1\DATA\122800A\12280025.M (RTE Integrat[illegible])
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Fri Dec 29 08:48:11 2000
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\122800A\C18243.D Vial: 4
Acq On : 28 Dec 2000 17:51 Operator: TAG/VR
Sample : ICAL 20 ppb (V00083,V00057) Inst : HP5A-C
Misc : QC Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 29 8:08 2000 Quant Results File: 12280025.RES

Quant Method : c:\hpchem\1\data\122800A\12280025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Tue Dec 12 10:52:52 2000
Response via : Initial Calibration
DataAcq Meth : 12280025

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Pentafluorobenzene	6.46	168	397992	10.00	ug\L		0.00
45) Chlorobenzene-d5	12.78	117	272656	10.00	ug\L		0.00
61) 1,4-Dichlorobenzene-d4	16.90	152	140699	10.00	ug\L		0.00
System Monitoring Compounds							
32) 1,2-Dichloroethane-d4	6.96	65	162225	18.73	ug\L		0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 187.30%			#	
46) Toluene-d8	10.28	98	823670	21.02	ug\L		0.01
Spiked Amount 10.000	Range 87 - 104		Recovery = 210.20%			#	
65) Bromofluorobenzene	14.86	95	387056	20.35	ug\L		0.00
Spiked Amount 10.000	Range 84 - 110		Recovery = 203.50%			#	
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.59	85	528342	22.48	ug\L		98
3) Chloromethane	1.77	50	180606	22.83	ug\L		98
4) Vinyl Chloride	1.84	62	254035	22.61	ug\L		100
5) Bromomethane	2.14	94	204164	22.94	ug\L		98
6) Chloroethane	2.21	64	130023	22.41	ug\L		99
7) Trichlorofluoromethane	2.44	101	720213	20.44	ug\L	#	100
8) Acrolein	3.84	56	9381m	50.77	ug\L		
9) Acrylonitrile	3.87	53	18757m	39.64	ug\L		
10) 1,1-Dichloroethene	2.94	96	271930	21.59	ug\L		99
11) Acetone	3.06	58	2302m	23.86	ug\L		
12) Iodomethane	3.13	142	433643	22.19	ug\L		98
13) Allylchloride	3.35	39	212476	19.79	ug\L	#	23
14) Carbon Disulfide	3.18	76	494195m	21.09	ug\L		
15) Acetonitrile	3.36	41	323148	210.51	ug\L		94
16) Methylene Chloride	3.52	86	119652	22.17	ug\L	#	31
17) trans-1,2-Dichloroethene	3.81	96	273804	21.24	ug\L		99
18) MethylTertButylEther	3.82	73	229459	18.65	ug\L		95
19) 1,1-Dichloroethane	4.45	63	432147	20.84	ug\L		98
20) Vinyl Acetate	3.80	43	51037	17.45	ug\L	#	73
21) 2,2-Dichloropropane	5.41	77	496045	21.05	ug\L		96
22) cis-1,2-Dichloroethene	5.48	96	230151	20.27	ug\L		99
23) 2-Butanone	5.55	72	3352	19.62	ug\L	#	38
24) Propionitrile	5.76	54	24289m	174.78	ug\L		
25) Methacrylonitrile	5.94	41	213370	188.02	ug\L		98
26) Bromochloromethane	5.92	128	90322	20.19	ug\L	#	82
27) Chloroform	6.09	83	519283	20.28	ug\L		100
28) 1,1,1-Trichloroethane	6.31	97	614376	20.21	ug\L	#	78
29) Carbon Tetrachloride	6.60	119	551042	20.23	ug\L		82
30) 1,4-Dioxane	8.90	88	8731m	401.86	ug\L		

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\122800A\C18243.D Vial: -
Acq On : 28 Dec 2000 17:51 Operator: [illegible]/VR
Sample : ICAL 20 ppb (V00083,V00057) Inst : [illegible]A-C
Misc : QC Multiplr: [illegible]00
MS Integration Params: rteint.p
Quant Time: Dec 29 8:08 2000 Quant Results File: [illegible]280025.RES

Quant Method : c:\hpchem\1\data\122800A\12280025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Tue Dec 12 10:52:52 2000
Response via : Initial Calibration
DataAcq Meth : 12280025

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
31)	1,1-Dichloropropene	6.60	77	147978	20.69	ug\l	#	1
33)	Benzene	6.99	78	735070	21.11	ug\l		100
34)	Isobutyl alcohol	7.16	43	25164m	408.10	ug\l		
35)	1,2-Dichloroethane	7.10	62	195705	19.92	ug\l		97
36)	Trichloroethene	8.16	95	383081	20.35	ug\l		90
37)	1,2-Dichloropropane	8.57	63	222466	20.14	ug\l	#	96
38)	Dibromomethane	8.80	93	102038	19.63	ug\l	#	85
39)	Methylmethacrylate	8.86	69	40345	18.84	ug\l		89
40)	Bromodichloromethane	9.11	83	368076	19.56	ug\l		99
41)	2-Nitropropane	9.55	43	10979m	18.52	ug\l		
42)	2-Chloroethyl-vinyl ether	9.65	63	3036m	3.78	ug\l		
43)	cis-1,3-Dichloropropene	9.88	75	267535	19.30	ug\l		99
44)	4-Methyl-2-Pentanone	10.18	85	8965m	18.48	ug\l		
47)	Toluene	10.38	92	536758	21.91	ug\l		100
48)	trans-1,3-Dichloropropene	10.88	75	180012	19.98	ug\l		93
49)	Ethylmethacrylate	11.06	69	102292	19.45	ug\l	#	94
50)	1,1,2-Trichloroethane	11.19	83	99489	21.08	ug\l		96
51)	Tetrachloroethene	11.31	164	349496	21.64	ug\l		93
52)	1,3-Dichloropropane	11.45	76	181282	19.82	ug\l		100
53)	2-Hexanone	11.67	43	28286	20.61	ug\l	#	97
54)	Dibromochloromethane	11.85	129	201938	19.81	ug\l		98
55)	1,2-Dibromoethane	11.99	107	132530	19.94	ug\l	#	99
56)	Chlorobenzene	12.84	112	587035	20.93	ug\l		96
57)	1,1,1,2-Tetrachloroethane	13.01	131	261615	20.27	ug\l		95
58)	Ethylbenzene	13.03	91	1088852	21.27	ug\l		98
59)	total-Xylene	13.93	106	460949m	60.51	ug\l		
60)	Styrene	13.98	104	558431	20.96	ug\l		95
62)	Bromoform	14.32	173	95278	18.60	ug\l		97
63)	Isopropylbenzene	14.58	105	1372289	22.42	ug\l		98
64)	1,4-dichloro-2-Butene	15.27	75	84398	19.62	ug\l	#	100
66)	Bromobenzene	15.10	156	236808	21.24	ug\l	#	63
67)	1,1,2,2-Tetrachloroethane	15.25	83	111866	20.56	ug\l		98
68)	1,2,3-Trichloropropane	15.27	75	84398	19.62	ug\l	#	100
69)	n-Propylbenzene	15.31	91	1440692	21.71	ug\l		94
70)	2-Chlorotoluene	15.43	91	839979m	23.22	ug\l		
71)	4-Chlorotoluene	15.64	91	1078582	21.70	ug\l		98
72)	1,3,5-Trimethylbenzene	15.65	105	1050294	22.31	ug\l		88
73)	Pentachloroethane	16.25	167	164661	20.87	ug\l		97
74)	tert-Butylbenzene	16.20	119	1273302	21.67	ug\l		97
75)	1,2,4-Trimethylbenzene	16.30	105	979634	21.45	ug\l		99
76)	sec-Butylbenzene	16.59	105	1578892	22.24	ug\l		97
77)	1,3-Dichlorobenzene	16.76	146	438172	20.32	ug\l		96

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\122800A\C18243.D Vial: -
Acq On : 28 Dec 2000 17:51 Operator: [illegible]
Sample : ICAL 20 ppb (V00083,V00057) Inst : [illegible]
Misc : QC Multiplr: [illegible]
MS Integration Params: rteint.p
Quant Time: Dec 29 8:08 2000 Quant Results File: [illegible]280025.RES

Quant Method : c:\hpchem\1\data\122800A\12280025.M (RTE Integrat[illegible])
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Tue Dec 12 10:52:52 2000
Response via : Initial Calibration
DataAcq Meth : 12280025

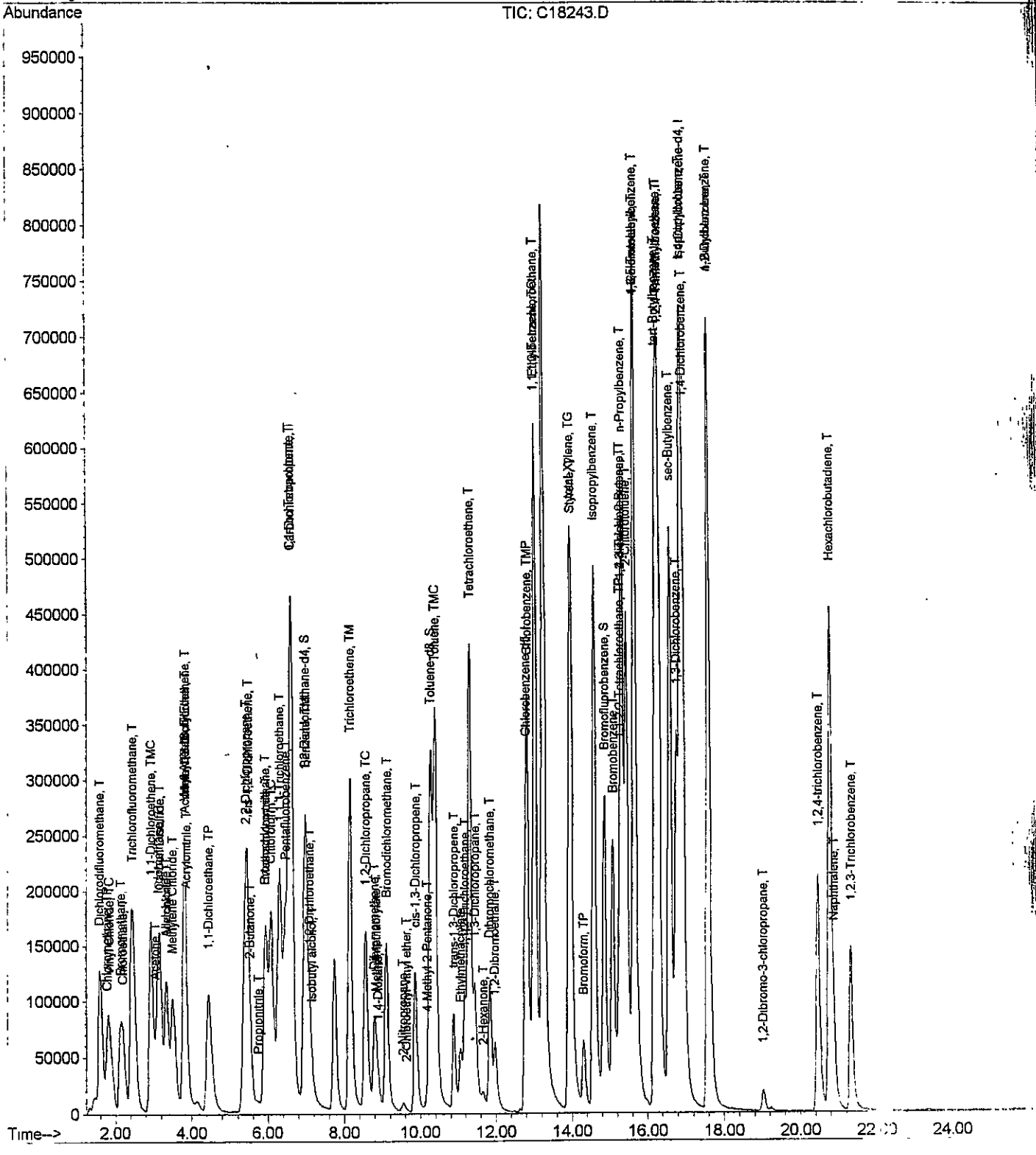
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
78)	Isopropyltoluene	16.87	119	1243883	21.70	ug\l	98
79)	1,4-Dichlorobenzene	16.94	146	501640	20.64	ug\l	98
80)	1,2-Dichlorobenzene	17.58	146	347895	20.18	ug\l	98
81)	n-Butylbenzene	17.60	91	1218255	21.91	ug\l	93
82)	1,2-Dibromo-3-chloropropan	19.01	75	20454	19.44	ug\l	85
83)	1,2,4-trichlorobenzene	20.46	180	256153	18.32	ug\l	100
84)	Hexachlorobutadiene	20.77	225	360062	21.11	ug\l	100
85)	Naphthalene	20.88	128	179248	16.63	ug\l	100
86)	1,2,3-Trichlorobenzene	21.33	180	173876	17.24	ug\l	96

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\122800A\C18243.D Vial: -
Acq On : 28 Dec 2000 17:51 Operator: TAG/VR
Sample : ICAL 20 ppb (V00083,V00057) Inst : VOA-C
Misc : QC Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 29 8:08 2000 Quant Results File: 12280025.RES

Method : C:\HPCHEM\1\DATA\122800A\12280025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Fri Dec 29 08:48:11 2000
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\122800A\C18244.D Vial: 5
Acq On : 28 Dec 2000 18:21 Operator: T.G/VR
Sample : ICAL 30 ppb (V00083,V00057) Inst : HP5A-C
Misc : QC Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 29 8:12 2000 Quant Results File: 12280025.RES

Quant Method : c:\hpchem\1\data\122800A\12280025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Tue Dec 12 10:52:52 2000
Response via : Initial Calibration
DataAcq Meth : 12280025

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Pentafluorobenzene	6.47	168	411836	10.00	ug\l		0.00
45) Chlorobenzene-d5	12.78	117	280988	10.00	ug\l		0.00
61) 1,4-Dichlorobenzene-d4	16.90	152	142795	10.00	ug\l		0.00
System Monitoring Compounds							
32) 1,2-Dichloroethane-d4	6.96	65	246590	27.51	ug\l		-0.01
Spiked Amount 10.000	Range 80 - 120		Recovery = 275.0			#	
46) Toluene-d8	10.29	98	1264314	31.31	ug\l		0.02
Spiked Amount 10.000	Range 87 - 104		Recovery = 313.0			#	
65) Bromofluorobenzene	14.87	95	585016	30.31	ug\l		0.00
Spiked Amount 10.000	Range 84 - 110		Recovery = 303.0			#	
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.59	85	802340	33.00	ug\l		99
3) Chloromethane	1.78	50	279604	34.16	ug\l		97
4) Vinyl Chloride	1.84	62	383472	32.99	ug\l		99
5) Bromomethane	2.13	94	298145	33.18	ug\l		99
6) Chloroethane	2.23	64	194652	32.43	ug\l		98
7) Trichlorofluoromethane	2.45	101	1095856	30.06	ug\l	#	100
8) Acrolein	3.80	56	14880	73.21	ug\l	#	95
9) Acrylonitrile	3.85	53	29244m	59.37	ug\l		
10) 1,1-Dichloroethene	2.94	96	415084	31.85	ug\l		99
11) Acetone	3.01	58	3250	31.12	ug\l	#	66
12) Iodomethane	3.12	142	653404	31.78	ug\l		98
13) Allylchloride	3.34	39	326142	29.36	ug\l	#	22
14) Carbon Disulfide	3.17	76	751413m	31.00	ug\l		
15) Acetonitrile	3.36	41	483203	304.19	ug\l		92
16) Methylene Chloride	3.51	86	187960	33.65	ug\l	#	36
17) trans-1,2-Dichloroethene	3.82	96	422699	31.69	ug\l		98
18) MethylTertButylEther	3.81	73	351993	27.64	ug\l		95
19) 1,1-Dichloroethane	4.46	63	662235	30.86	ug\l		98
20) Vinyl Acetate	3.81	43	76619	25.31	ug\l	#	73
21) 2,2-Dichloropropane	5.41	77	772259	31.67	ug\l		96
22) cis-1,2-Dichloroethene	5.49	96	358622	30.52	ug\l		99
23) 2-Butanone	5.52	72	8409m	37.74	ug\l		
24) Propionitrile	5.75	54	42545	284.73	ug\l	#	92
25) Methacrylonitrile	5.94	41	320295	272.76	ug\l		96
26) Bromochloromethane	5.94	128	136583	29.50	ug\l	#	83
27) Chloroform	6.10	83	801166	30.24	ug\l		99
28) 1,1,1-Trichloroethane	6.30	97	958248	30.46	ug\l	#	79
29) Carbon Tetrachloride	6.59	119	859668	30.50	ug\l		85
30) 1,4-Dioxane	8.89	88	12824m	570.40	ug\l		

(#) = qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\122800A\C18244.D Vial:
Acq On : 28 Dec 2000 18:21 Operator: [illegible]
Sample : ICAL 30 ppb (V00083,V00057) Inst : [illegible]
Misc : QC Multiplr: [illegible]
MS Integration Params: rteint.p
Quant Time: Dec 29 8:12 2000 Quant Results File: [illegible]280025.RES

Quant Method : c:\hpchem\1\data\122800A\12280025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Tue Dec 12 10:52:52 2000
Response via : Initial Calibration
DataAcq Meth : 12280025

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
31)	1,1-Dichloropropene	6.61	77	225537	30.48	ug\l	#	1
33)	Benzene	6.99	78	1130534	31.37	ug\l		100
34)	Isobutyl alcohol	7.16	43	36101	567.51	ug\l		99
35)	1,2-Dichloroethane	7.08	62	293848	28.90	ug\l		98
36)	Trichloroethene	8.15	95	600437	30.83	ug\l		93
37)	1,2-Dichloropropane	8.56	63	349803	30.61	ug\l	#	95
38)	Dibromomethane	8.79	93	155452	28.90	ug\l	#	83
39)	Methylmethacrylate	8.87	69	63027	28.44	ug\l		94
40)	Bromodichloromethane	9.12	83	578968	29.73	ug\l		100
41)	2-Nitropropane	9.55	43	17942	29.25	ug\l	#	100
42)	2-Chloroethyl-vinyl ether	9.70	63	7573m	5.87	ug\l		
43)	cis-1,3-Dichloropropene	9.87	75	416050	29.00	ug\l		98
44)	4-Methyl-2-Pentanone	10.18	85	14924m	31.79	ug\l		
47)	Toluene	10.39	92	827473	32.77	ug\l		99
48)	trans-1,3-Dichloropropene	10.88	75	282906	30.47	ug\l		95
49)	Ethylmethacrylate	11.07	69	160220	29.56	ug\l	#	95
50)	1,1,2-Trichloroethane	11.20	83	152321	31.32	ug\l		95
51)	Tetrachloroethene	11.31	164	538509	32.36	ug\l		93
52)	1,3-Dichloropropane	11.45	76	277458	29.43	ug\l		100
53)	2-Hexanone	11.68	43	40581	28.69	ug\L	#	96
54)	Dibromochloromethane	11.85	129	319499	30.42	ug\l		96
55)	1,2-Dibromoethane	11.99	107	205282	29.97	ug\l	#	98
56)	Chlorobenzene	12.82	112	926951	32.06	ug\l		95
57)	1,1,1,2-Tetrachloroethane	13.01	131	407126	30.61	ug\l		95
58)	Ethylbenzene	13.03	91	1702819	32.28	ug\l		99
59)	total-Xylene	13.93	106	744830m	94.88	ug\l		
60)	Styrene	13.98	104	855804	31.16	ug\l		95
62)	Bromoform	14.32	173	154738	29.34	ug\L		99
63)	Isopropylbenzene	14.59	105	2121608	34.15	ug\L		98
64)	1,4-dichloro-2-Butene	15.27	75	128752	29.50	ug\L	#	100
66)	Bromobenzene	15.08	156	370507	32.74	ug\l	#	61
67)	1,1,2,2-Tetrachloroethane	15.25	83	168707	30.56	ug\l	#	98
68)	1,2,3-Trichloropropane	15.27	75	128752	29.50	ug\l	#	100
69)	n-Propylbenzene	15.31	91	2268364	33.68	ug\l		96
70)	2-Chlorotoluene	15.44	91	1174850m	32.00	ug\l		
71)	4-Chlorotoluene	15.64	91	1617611	32.07	ug\l		98
72)	1,3,5-Trimethylbenzene	15.64	105	1614505	33.78	ug\L		89
73)	Pentachloroethane	16.26	167	255058	31.85	ug\L		96
74)	tert-Butylbenzene	16.21	119	1934429	32.44	ug\l		97
75)	1,2,4-Trimethylbenzene	16.29	105	1493655	32.22	ug\l		99
76)	sec-Butylbenzene	16.58	105	2406326	33.39	ug\l		97
77)	1,3-Dichlorobenzene	16.77	146	689296	31.50	ug\l		98

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\122800A\C18244.D Vial: 3
Acq On : 28 Dec 2000 18:21 Operator: [illegible]G/VS
Sample : ICAL 30 ppb (V00083,V00057) Inst : [illegible]A-C
Misc : QC Multiplr: [illegible]00
MS Integration Params: rteint.p
Quant Time: Dec 29 8:12 2000 Quant Results File: [illegible]280025.RES

Quant Method : c:\hpchem\1\data\122800A\12280025.M (RTE Integrat[illegible]r)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Tue Dec 12 10:52:52 2000
Response via : Initial Calibration
DataAcq Meth : 12280025

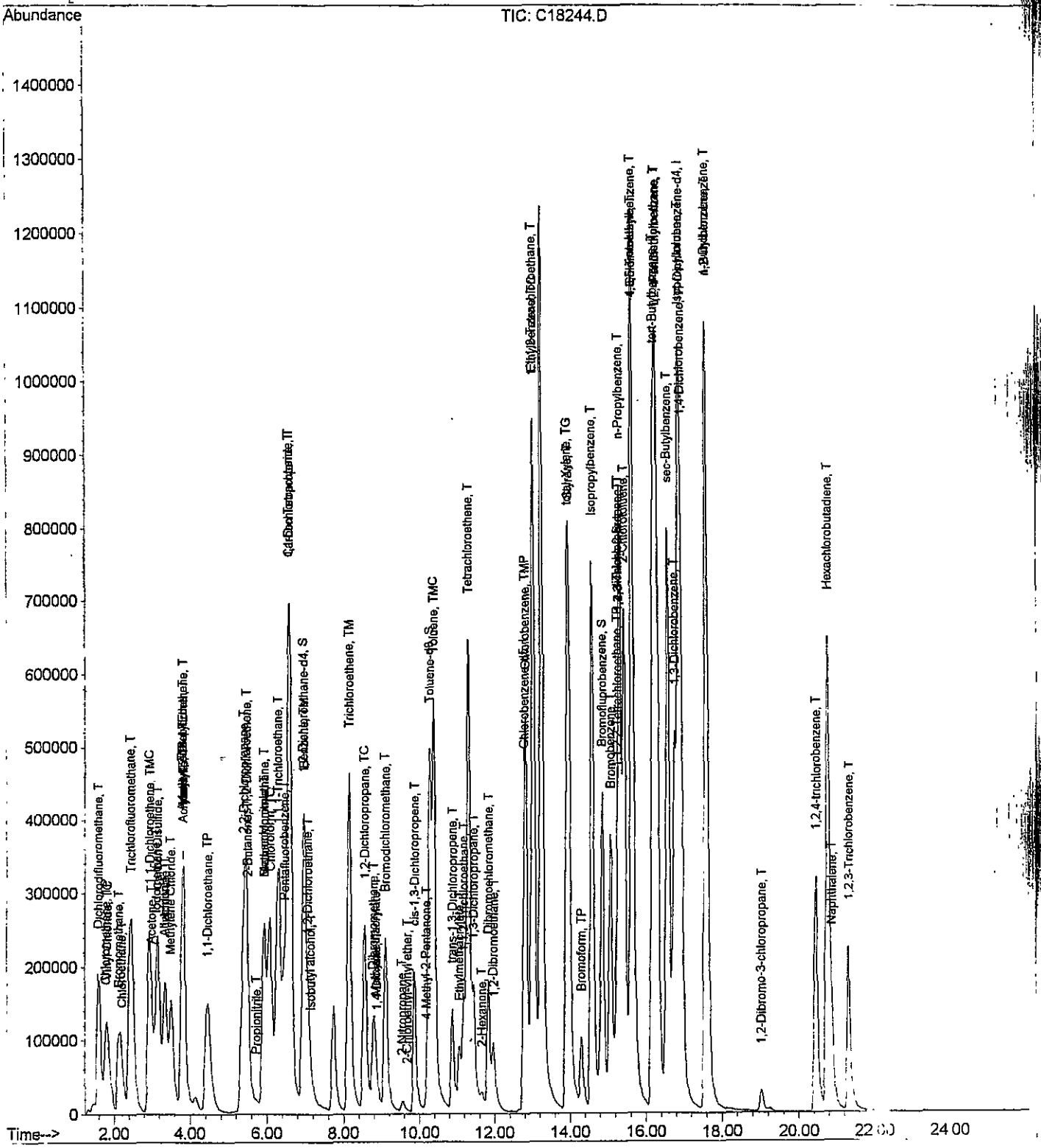
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
78)	Isopropyltoluene	16.87	119	1879668	32.30	ug\l	98
79)	1,4-Dichlorobenzene	16.94	146	743474	30.14	ug\l	99
80)	1,2-Dichlorobenzene	17.59	146	531067	30.35	ug\l	98
81)	n-Butylbenzene	17.60	91	1869787	33.13	ug\l	93
82)	1,2-Dibromo-3-chloropropan	19.03	75	32450	30.39	ug\l	85
83)	1,2,4-trichlorobenzene	20.46	180	395422	27.86	ug\l	100
84)	Hexachlorobutadiene	20.77	225	516658	29.84	ug\l	100
85)	Naphthalene	20.89	128	289991	26.68	ug\l	100
86)	1,2,3-Trichlorobenzene	21.32	180	268103	26.20	ug\l	98

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\122800A\C18244.D Vial: [illegible]
Acq On : 28 Dec 2000 18:21 Operator: [illegible]G/VR
Sample : ICAL 30 ppb (V00083,V00057) Inst : [illegible]A-C
Misc : QC Multiplr: [illegible]00
MS Integration Params: rteint.p
Quant Time: Dec 29 8:12 2000 Quant Results File: [illegible]280025.RES

Method : C:\HPCHEM\1\DATA\122800A\12280025.M (RTE Integra[illegible])
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Fri Dec 29 08:48:11 2000
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\122800A\C18245.D Vial: [illegible]
Acq On : 28 Dec 2000 18:51 Operator: [illegible]G/VR
Sample : ICAL 40 ppb (V00083,V00057) Inst : [illegible]A-C
Misc : QC Multiplr: 1 00
MS Integration Params: rteint.p
Quant Time: Dec 29 8:17 2000 Quant Results File: [illegible]280025.RES

Quant Method : c:\hpchem\1\data\122800A\12280025.M (RTE Integra[illegible])
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Tue Dec 12 10:52:52 2000
Response via : Initial Calibration
DataAcq Meth : 12280025

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Pentafluorobenzene	6.47	168	389057	10.00	ug\l		0.00
45) Chlorobenzene-d5	12.77	117	270025	10.00	ug\l		-0.02
61) 1,4-Dichlorobenzene-d4	16.89	152	132960	10.00	ug\l		0.00
System Monitoring Compounds							
32) 1,2-Dichloroethane-d4	6.95	65	320239	37.82	ug\l		-0.02
Spiked Amount 10.000	Range 80 - 120		Recovery = 378.[illegible]0%			#	
46) Toluene-d8	10.27	98	1599218	41.22	ug\l		0.00
Spiked Amount 10.000	Range 87 - 104		Recovery = 412.[illegible]0%			#	
65) Bromofluorobenzene	14.86	95	748211	41.63	ug\l		0.00
Spiked Amount 10.000	Range 84 - 110		Recovery = 416.[illegible]0%			#	
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.60	85	1060735	46.18	ug\l		99
3) Chloromethane	1.77	50	360485	46.62	ug\l		99
4) Vinyl Chloride	1.84	62	502034	45.72	ug\l		99
5) Bromomethane	2.12	94	377176	45.11	ug\l		99
6) Chloroethane	2.22	64	239390	42.22	ug\l		98
7) Trichlorofluoromethane	2.46	101	1443155	41.90	ug\l	#	100
8) Acrolein	3.81	56	18819	95.08	ug\l	#	95
9) Acrylonitrile	3.87	53	36785m	78.81	ug\l		
10) 1,1-Dichloroethene	2.95	96	542261	44.05	ug\l		98
11) Acetone	3.03	58	4116m	40.37	ug\l		
12) Iodomethane	3.12	142	826035	42.13	ug\l		98
13) Allylchloride	3.35	39	409618	39.04	ug\l	#	23
14) Carbon Disulfide	3.17	76	1070749	46.75	ug\l		99
15) Acetonitrile	3.35	41	620285	413.35	ug\l		94
16) Methylene Chloride	3.51	86	251000	47.57	ug\l	#	37
17) trans-1,2-Dichloroethene	3.82	96	556938	44.20	ug\l		96
18) MethylTertButylEther	3.81	73	449236	37.34	ug\l		96
19) 1,1-Dichloroethane	4.46	63	856876	42.27	ug\l		98
20) Vinyl Acetate	3.81	43	100170m	35.03	ug\l		
21) 2,2-Dichloropropane	5.42	77	1012140	43.94	ug\l		97
22) cis-1,2-Dichloroethene	5.49	96	469905	42.33	ug\l		97
23) 2-Butanone	5.53	72	9616m	44.23	ug\l		
24) Propionitrile	5.76	54	57418	399.88	ug\l	#	80
25) Methacrylonitrile	5.94	41	422550	380.90	ug\l		98
26) Bromochloromethane	5.93	128	181991	41.62	ug\l	#	79
27) Chloroform	6.10	83	1035405	41.38	ug\l		99
28) 1,1,1-Trichloroethane	6.32	97	1279945	43.07	ug\l		92
29) Carbon Tetrachloride	6.60	119	1140003	42.81	ug\l		87
30) 1,4-Dioxane	8.88	88	16272m	766.15	ug\l		

(#) = qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\122800A\C18245.D Vial: 4
Acq On : 28 Dec 2000 18:51 Operator: 1 :G/VR
Sample : ICAL 40 ppb (V00083,V00057) Inst : 1)A-C
Misc : QC Multiplr: 1 00
MS Integration Params: rteint.p
Quant Time: Dec 29 8:17 2000 Quant Results File: 1 '280025.RES

Quant Method : c:\hpchem\1\data\122800A\12280025.M (RTE Integrat.r)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Tue Dec 12 10:52:52 2000
Response via : Initial Calibration
DataAcq Meth : 12280025

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
31)	1,1-Dichloropropene	6.61	77	290312	41.53	ug\I	#	1
33)	Benzene	6.99	78	1470061	43.18	ug\I		100
34)	Isobutyl alcohol	7.16	43	42288	704.76	ug\I		89
35)	1,2-Dichloroethane	7.09	62	381205	39.69	ug\I		96
36)	Trichloroethene	8.16	95	762794	41.46	ug\I		90
37)	1,2-Dichloropropane	8.58	63	446250	41.34	ug\I	#	87
38)	Dibromomethane	8.80	93	203454	40.04	ug\I	#	84
39)	Methylmethacrylate	8.86	69	80031	38.22	ug\I		94
40)	Bromodichloromethane	9.11	83	766561	41.67	ug\I		99
41)	2-Nitropropane	9.55	43	21301	36.76	ug\I	#	100
42)	2-Chloroethyl-vinyl ether	9.67	63	6303m	5.44	ug\I		
43)	cis-1,3-Dichloropropene	9.87	75	553658	40.85	ug\I		97
44)	4-Methyl-2-Pentanone	10.21	85	17672m	40.71	ug\I		
47)	Toluene	10.38	92	1060382	43.70	ug\I		100
48)	trans-1,3-Dichloropropene	10.89	75	377834	42.35	ug\I		92
49)	Ethylmethacrylate	11.07	69	214078	41.10	ug\I	#	95
50)	1,1,2-Trichloroethane	11.20	83	196212	41.98	ug\I		96
51)	Tetrachloroethene	11.31	164	715222	44.72	ug\I		92
52)	1,3-Dichloropropane	11.45	76	365700	40.37	ug\I		100
53)	2-Hexanone	11.66	43	52843	38.88	ug\I		96
54)	Dibromochloromethane	11.85	129	426576	42.26	ug\I		99
55)	1,2-Dibromoethane	11.98	107	272809	41.44	ug\I	#	98
56)	Chlorobenzene	12.83	112	1207502	43.46	ug\L		96
57)	1,1,1,2-Tetrachloroethane	13.01	131	538285	42.12	ug\L		94
58)	Ethylbenzene	13.04	91	2135654	42.13	ug\L		98
59)	total-Xylene	13.92	106	968178m	128.34	ug\L		
60)	Styrene	13.98	104	1115864	42.28	ug\I		97
62)	Bromoform	14.32	173	209291	42.29	ug\L	#	96
63)	Isopropylbenzene	14.58	105	2687429	46.46	ug\I		98
64)	1,4-dichloro-2-Butene	15.27	75	175192	43.11	ug\I	#	100
66)	Bromobenzene	15.09	156	486235	46.15	ug\I	#	60
67)	1,1,2,2-Tetrachloroethane	15.23	83	217727	42.36	ug\I	#	99
68)	1,2,3-Trichloropropane	15.27	75	175192	43.11	ug\I	#	100
69)	n-Propylbenzene	15.31	91	2825089	45.05	ug\I		95
70)	2-Chlorotoluene	15.43	91	1528769m	44.72	ug\I		
71)	4-Chlorotoluene	15.64	91	2071581	44.11	ug\I		99
72)	1,3,5-Trimethylbenzene	15.65	105	1991362	44.75	ug\I		89
73)	Pentachloroethane	16.25	167	336563	45.14	ug\I		96
74)	tert-Butylbenzene	16.20	119	2480535	44.68	ug\I		97
75)	1,2,4-Trimethylbenzene	16.29	105	1887171	43.72	ug\I		99
76)	sec-Butylbenzene	16.59	105	3070193	45.75	ug\L		97
77)	1,3-Dichlorobenzene	16.76	146	874988	42.94	ug\L		98

(#) = qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\122800A\C18245.D Vial:
Acq On : 28 Dec 2000 18:51 Operator: G/VR
Sample : ICAL 40 ppb (V00083,V00057) Inst : A-C
Misc : QC Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 29 8:17 2000 Quant Results File: 12800025.RES

Quant Method : c:\hpchem\1\data\122800A\12280025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Tue Dec 12 10:52:52 2000
Response via : Initial Calibration
DataAcq Meth : 12280025

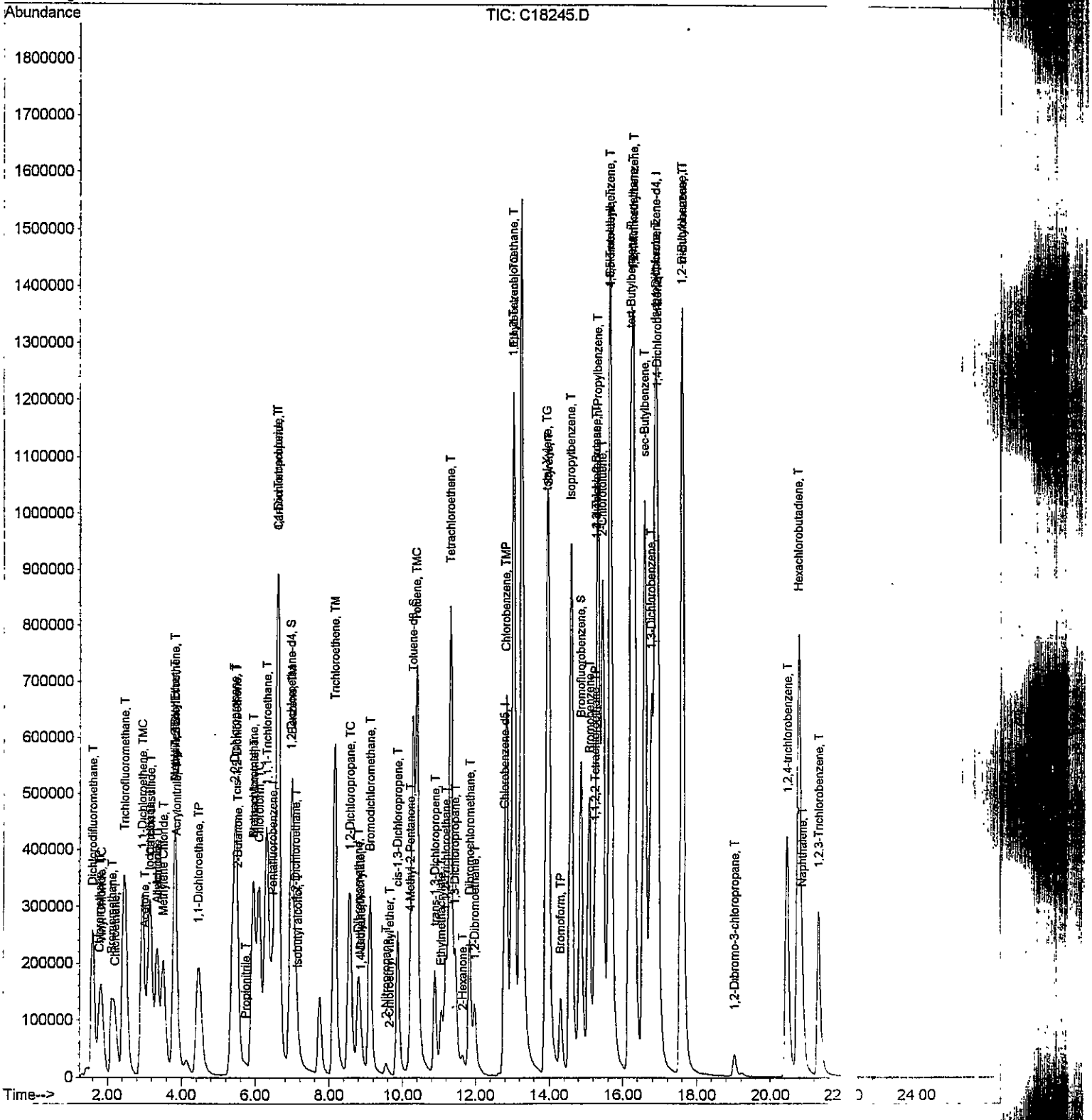
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
78)	Isopropyltoluene	16.86	119	2408348	44.45	ug\l		98
79)	1,4-Dichlorobenzene	16.93	146	997445	43.43	ug\l		97
80)	1,2-Dichlorobenzene	17.57	146	690218	42.37	ug\l		98
81)	n-Butylbenzene	17.59	91	2351116	44.74	ug\l		93
82)	1,2-Dibromo-3-chloropropan	19.02	75	39654	39.88	ug\l	#	75
83)	1,2,4-trichlorobenzene	20.46	180	512618	38.80	ug\l		100
84)	Hexachlorobutadiene	20.78	225	625740	38.82	ug\l		100
85)	Naphthalene	20.89	128	390709	38.74	ug\l		100
86)	1,2,3-Trichlorobenzene	21.33	180	347648	36.48	ug\l		97

(#) = qualifier out of range (m) = manual integration

Quantitation Report

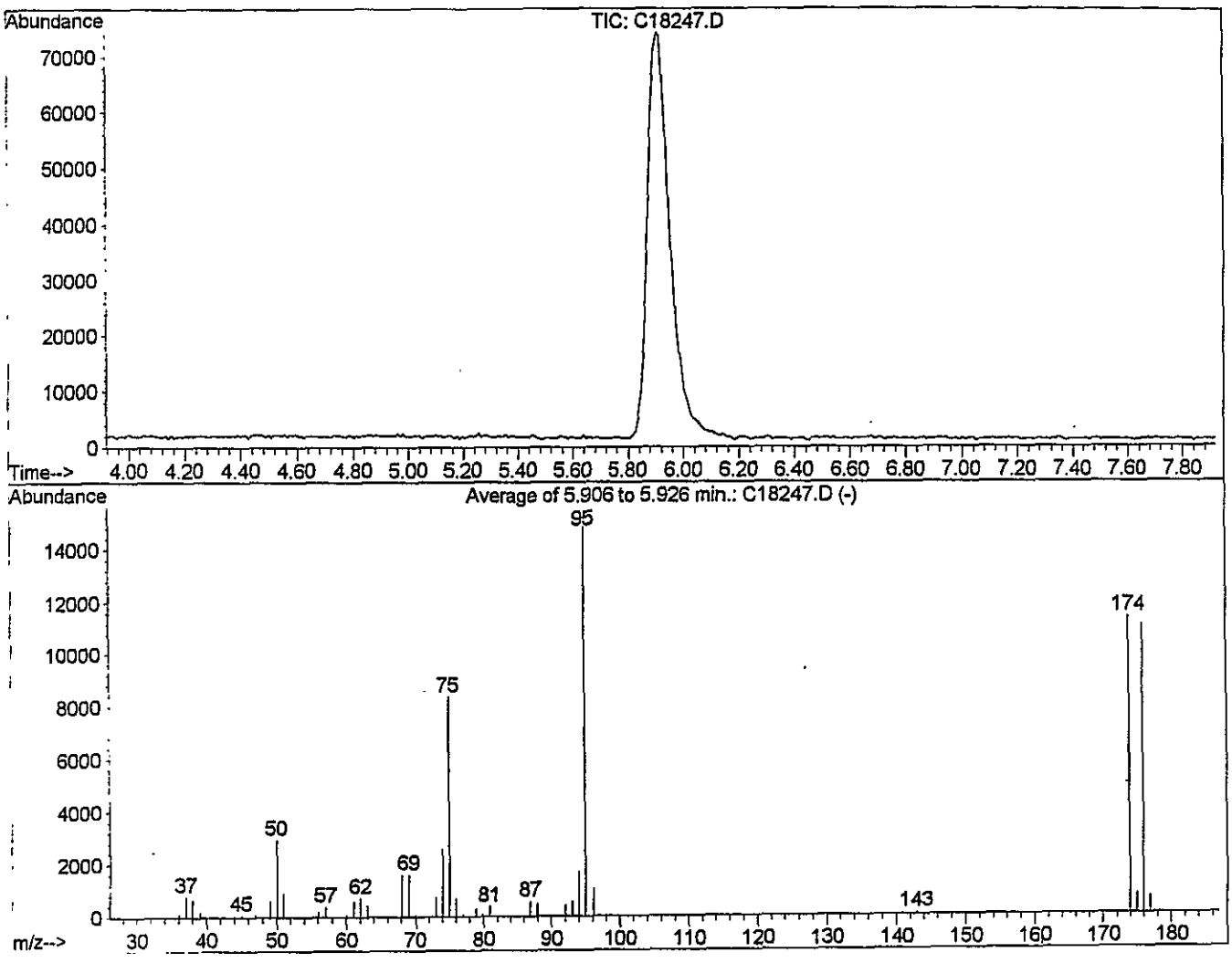
Data File : C:\HPCHEM\1\DATA\122800A\C18245.D Vial: 6
Acq On : 28 Dec 2000 18:51 Operator: T..G/VR
Sample : ICAL 40 ppb (V00083,V00057) Inst : ..A-C
Misc : QC Multiplr: ..0
MS Integration Params: rteint.p
Quant Time: Dec 29 8:17 2000 Quant Results File: ..80025.RES

Method : C:\HPCHEM\1\DATA\122800A\12280025.M (RTE Integrat..)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Fri Dec 29 08:48:11 2000
Response via : Initial Calibration



BFB

Data File : C:\HPCHEM\1\DATA\122900\C18247.D Vial: 1
Acq On : 29 Dec 2000 13:43 Operator: TAG/VR
Sample : BFB 50ng V00048 Inst : VOA-C
Misc : QC Multiplr: 1.00
MS Integration Params: rteint.p
Method : C:\HPCHEM\1\DATA\122800A\12280025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER



AutoFind: Scans 475, 476, 477; Background Corrected with Scan 463

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	19.9	2951	PASS
75	95	30	60	56.4	8377	PASS
95	95	100	100	100.0	14863	PASS
96	95	5	9	7.1	1060	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	76.7	11398	PASS
175	174	5	9	6.6	755	PASS
176	174	95	101	97.4	11097	PASS
177	176	5	9	6.1	678	PASS

C18247.D 12280025.M Fri Dec 29 14:07:28 2000 RPT1

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\122900\C18248.D Vial: 1
Acq On : 29 Dec 2000 14:03 Operator: TAG/VR
Sample : ICV/CCV 10 ppb (V00084,V00057) Inst : VOA-C
Misc : QC Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 29 14:33 2000 Quant Results File: 12290025.RES

Quant Method : C:\HPCHEM\1\DATA\122900\12290025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Fri Dec 29 10:24:33 2000
Response via : Initial Calibration
DataAcq Meth : 12290025

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Pentafluorobenzene	6.46	168	482267	10.00	ug\L		-0.02
45) Chlorobenzene-d5	12.78	117	301043	10.00	ug\L		0.00
61) 1,4-Dichlorobenzene-d4	16.89	152	149855	10.00	ug\L		0.00
System Monitoring Compounds							
32) 1,2-Dichloroethane-d4	6.96	65	79437	8.30	ug\L		0.01
Spiked Amount 10.000	Range 80 - 120		Recovery = 83.00%				
46) Toluene-d8	10.26	98	470034	10.55	ug\L		-0.02
Spiked Amount 10.000	Range 87 - 104		Recovery = 105.50%#				
65) Bromofluorobenzene	14.86	95	198419	9.55	ug\L		-0.02
Spiked Amount 10.000	Range 84 - 110		Recovery = 95.50%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.58	85	330203	10.56	ug\L		100
3) Chloromethane	1.77	50	109121	10.09	ug\L		98
4) Vinyl Chloride	1.84	62	135183	9.07	ug\L		99
5) Bromomethane	2.14	94	129876	9.82	ug\L		97
6) Chloroethane	2.22	64	82759	10.54	ug\L	#	42
7) Trichlorofluoromethane	2.41	101	390864	9.16	ug\L	#	100
8) Acrolein	3.80	56	4042	14.89	ug\L	#	4
9) Acrylonitrile	3.84	53	4131	9.24	ug\L	#	80
10) 1,1-Dichloroethene	2.93	96	155511	9.71	ug\L		95
11) Acetone	3.01	58	1153m	10.23	ug\L		
12) Iodomethane	3.10	142	140385	6.25	ug\L		99
13) Allylchloride	3.33	39	115020	9.01	ug\L	#	23
14) Carbon Disulfide	3.17	76	268030	8.46	ug\L		100
15) Acetonitrile	3.32	41	172835	91.31	ug\L		93
16) Methylene Chloride	3.51	86	64876	7.73	ug\L	#	41
17) trans-1,2-Dichloroethene	3.80	96	156130	9.65	ug\L		94
18) MethylTertButylEther	3.80	73	103934	7.92	ug\L		95
19) 1,1-Dichloroethane	4.44	63	238763	9.30	ug\L		99
20) Vinyl Acetate	3.80	43	22857	7.79	ug\L	#	73
21) 2,2-Dichloropropane	5.40	77	263860	9.38	ug\L	#	55
22) cis-1,2-Dichloroethene	5.45	96	125774	9.21	ug\L		98
23) 2-Butanone	5.59	72	1804m	9.59	ug\L		
24) Propionitrile	5.74	54	6515	58.45	ug\L	#	57
25) Methacrylonitrile	5.95	41	95676	77.41	ug\L		96
26) Bromochloromethane	5.93	128	46198	8.88	ug\L	#	79
27) Chloroform	6.09	83	272328	8.89	ug\L		100
28) 1,1,1-Trichloroethane	6.30	97	332698	9.16	ug\L	#	76
29) Carbon Tetrachloride	6.58	119	303117	9.29	ug\L	#	79
31) 1,1-Dichloropropene	6.61	77	81024	9.19	ug\L	#	1

(#) = qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\122900\C18248.D Vial: 1
Acq On : 29 Dec 2000 14:03 Operator: TAG/VR
Sample : ICV/CCV 10 ppb (V00084,V00057) Inst : VOA-C
Misc : QC Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 29 14:33 2000 Quant Results File: 12290025.RES

Quant Method : C:\HPCHEM\1\DATA\122900\12290025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Fri Dec 29 10:24:33 2000
Response via : Initial Calibration
DataAcq Meth : 12290025

Compound	R.T.	QIon	Response	Conc Unit		Qvalue
33) Benzene	6.97	78	401980	9.22 ug\L		100
34) Isobutyl alcohol	7.18	43	12252	159.39 ug\L	#	51
35) 1,2-Dichloroethane	7.09	62	92339	8.25 ug\L		99
36) Trichloroethene	8.15	95	206141	9.03 ug\L		91
37) 1,2-Dichloropropane	8.57	63	112048	8.61 ug\L	#	94
38) Dibromomethane	8.79	93	48434	8.34 ug\L	#	83
39) Methylmethacrylate	8.85	69	18177	8.32 ug\L	#	82
40) Bromodichloromethane	9.11	83	183541	8.81 ug\L		99
41) 2-Nitropropane	9.53	43	4335m	7.80 ug\L		
42) 2-Chloroethyl-vinyl ether	9.64	63	988m	6.72 ug\L		
43) cis-1,3-Dichloropropene	9.87	75	132252	8.79 ug\L		98
44) 4-Methyl-2-Pentanone	10.38	85	7063m	11.45 ug\L		
47) Toluene	10.38	92	293701	10.26 ug\L		99
48) trans-1,3-Dichloropropene	10.88	75	82671	9.05 ug\L		95
49) Ethylmethacrylate	11.06	69	44625	8.46 ug\L	#	93
50) 1,1,2-Trichloroethane	11.19	83	46806	9.00 ug\L		97
51) Tetrachloroethene	11.30	164	195592	10.25 ug\L		91
52) 1,3-Dichloropropane	11.46	76	86648	9.04 ug\L		99
53) 2-Hexanone	11.68	43	10413	7.51 ug\L	#	85
54) Dibromochloromethane	11.84	129	95806	9.33 ug\L		100
55) 1,2-Dibromoethane	11.99	107	61696	9.06 ug\L	#	98
56) Chlorobenzene	12.83	112	318416	9.77 ug\L		93
57) 1,1,1,2-Tetrachloroethane	13.02	131	128874	9.39 ug\L		94
58) Ethylbenzene	13.03	91	592296	10.16 ug\L		98
59) total-Xylene	13.92	106	254683m	29.62 ug\L		
60) Styrene	13.97	104	278328	9.61 ug\L		95
62) Bromoform	14.31	173	43363	9.01 ug\L	#	96
63) Isopropylbenzene	14.57	105	731530	10.05 ug\L		98
64) 1,4-dichloro-2-Butene	15.27	75	37977	8.18 ug\L	#	100
66) Bromobenzene	15.08	156	123294	9.96 ug\L	#	60
67) 1,1,2,2-Tetrachloroethane	15.23	83	50844	8.95 ug\L		99
68) 1,2,3-Trichloropropane	15.27	75	37977	8.18 ug\L	#	100
69) n-Propylbenzene	15.31	91	787555	10.08 ug\L		96
70) 2-Chlorotoluene	15.42	91	406100	9.50 ug\L		93
71) 4-Chlorotoluene	15.64	91	546876	9.61 ug\L		97
72) 1,3,5-Trimethylbenzene	15.64	105	545724	9.78 ug\L		91
73) Pentachloroethane	16.24	167	80563	9.84 ug\L		96
74) tert-Butylbenzene	16.20	119	676096	10.01 ug\L		96
75) 1,2,4-Trimethylbenzene	16.29	105	512173	9.79 ug\L		99
76) sec-Butylbenzene	16.58	105	844728	10.07 ug\L		96
77) 1,3-Dichlorobenzene	16.76	146	228913	9.59 ug\L		95
78) Isopropyltoluene	16.86	119	667128	10.17 ug\L		99

(#) = qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\122900\C18248.D Vial: 1
Acq On : 29 Dec 2000 14:03 Operator: TAG/VR
Sample : ICV/CCV 10 ppb (V00084,V00057) Inst : VOA-C
Misc : QC Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 29 14:33 2000 Quant Results File: 12290025.RES

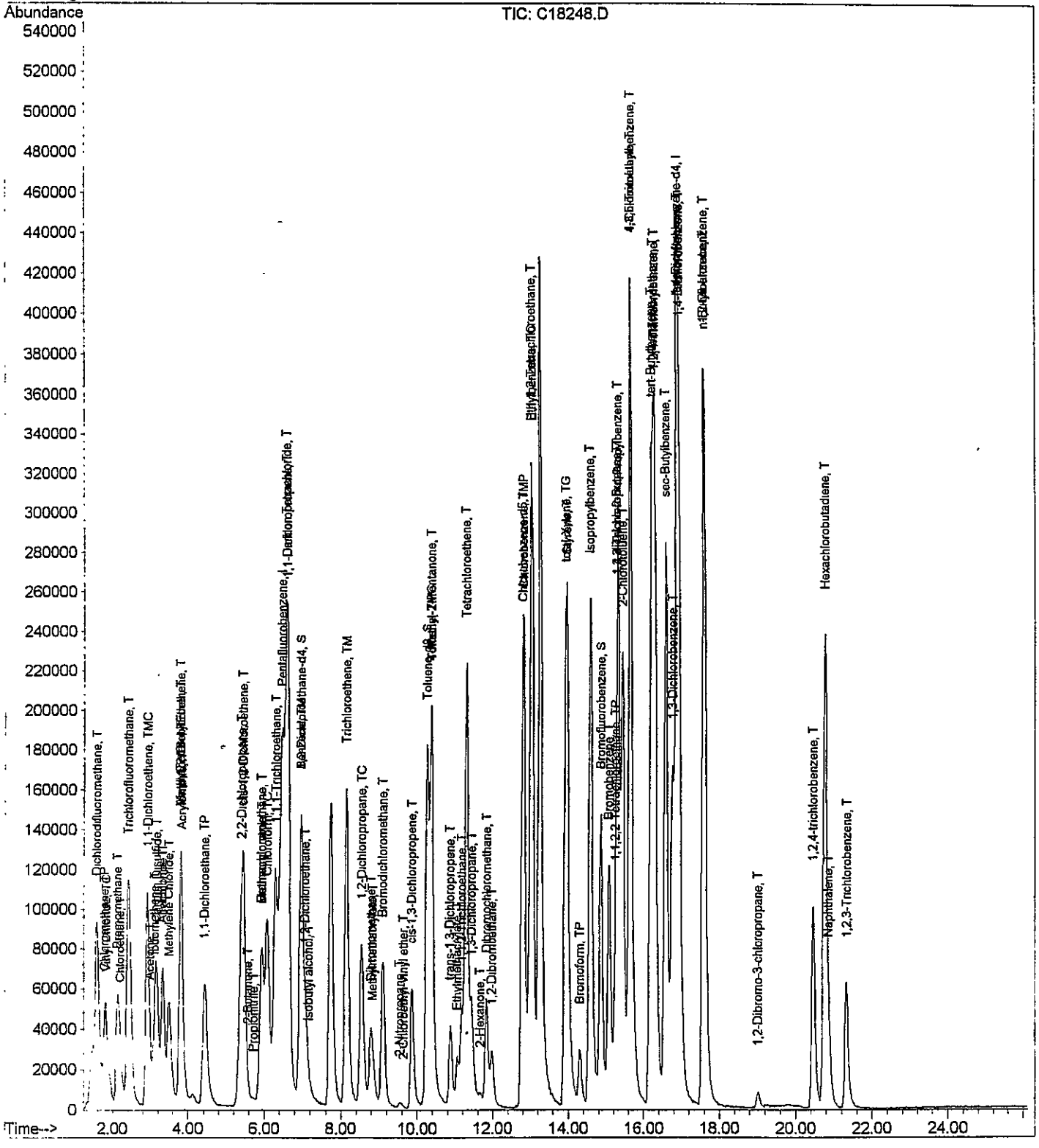
Quant Method : C:\HPCHEM\1\DATA\122900\12290025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Fri Dec 29 10:24:33 2000
Response via : Initial Calibration
DataAcq Meth : 12290025

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
79) 1,4-Dichlorobenzene	16.93	146	257420	9.63	ug\L	97
80) 1,2-Dichlorobenzene	17.58	146	177843	9.48	ug\L	97
81) n-Butylbenzene	17.60	91	662641	10.39	ug\L	93
82) 1,2-Dibromo-3-chloropropan	19.02	75	8857	8.75	ug\L	88
83) 1,2,4-trichlorobenzene	20.46	180	123670	9.18	ug\L	100
84) Hexachlorobutadiene	20.77	225	187996	9.84	ug\L	100
85) Naphthalene	20.88	128	76774	8.05	ug\L	100
86) 1,2,3-Trichlorobenzene	21.32	180	78200	8.28	ug\L	98

(#) = qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\122900\C18248.D Vial: 1
Acq On : 29 Dec 2000 14:03 Operator: TAG/VR
Sample : ICV/CCV 10 ppb (V00084,V00057) Inst : VOA-C
Misc : QC Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 29 14:33 2000 Quant Results File: 12290025.RES

Method : C:\HPCHEM\1\DATA\122900\12290025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Fri Dec 29 10:24:33 2000
Response via : Initial Calibration



Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\122900\C18248.D Vial: 1
Acq On : 29 Dec 2000 14:03 Operator: TAG/VR
Sample : ICV/CCV 10 ppb (V00084,V00057) Inst : VOA-C
Misc : QC Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\HPCHEM\1\DATA\122900\12290025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Fri Dec 29 10:24:33 2000
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	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Pentafluorobenzene	1.000	1.000	0.0	118	-0.02
2	T	Dichlorodifluoromethane	0.649	0.685	-5.5	130	-0.03
3	TP	Chloromethane	0.224	0.226	-0.9	128	0.00
4	TC	Vinyl Chloride	0.309	0.280	9.4	111	0.00
5	T	Bromomethane	0.274	0.269	1.8	114	0.02
6	T	Chloroethane	0.163	0.172	-5.5	119	0.00
7	T	Trichlorofluoromethane	0.885	0.810	8.5	112	-0.02
8	T	Acrolein	0.006	0.004	33.3#	95	0.02
9	T	Acrylonitrile	0.010	0.004	60.0#	53	-0.02
10	TMC	1,1-Dichloroethene	0.332	0.322	3.0	117	0.00
11	T	Acetone	0.002	0.002	0.0	133	-0.03
12	T	Iodomethane	0.462	0.291	37.0#	78	-0.03
13	T	Allylchloride	0.265	0.238	10.2	110	0.00
14	T	Carbon Disulfide	0.657	0.556	15.4	84	0.00
15	T	Acetonitrile	0.039	0.036	7.7	110	0.00
16	T	Methylene Chloride	0.244	0.135	44.7#	107	0.00
17	T	trans-1,2-Dichloroethene	0.335	0.324	3.3	117	-0.02
18	T	MethylTertButylEther	0.272	0.216	20.6	102	0.00
19	TP	1,1-Dichloroethane	0.532	0.495	7.0	112	0.00
20	T	Vinyl Acetate	0.061	0.047	23.0	97	0.00
21	T	2,2-Dichloropropane	0.583	0.547	6.2	113	-0.02
22	T	cis-1,2-Dichloroethene	0.283	0.261	7.8	112	-0.02
23	T	2-Butanone	0.005	0.004	20.0	114	0.00
24	T	Propionitrile	0.003	0.001	66.7#	66	-0.03
25	T	Methacrylonitrile	0.026	0.020	23.1	100	0.00
26	T	Bromochloromethane	0.108	0.096	11.1	109	0.01
27	TC	Chloroform	0.635	0.565	11.0	109	0.00
28	T	1,1,1-Trichloroethane	0.753	0.690	8.4	111	0.00
29	T	Carbon Tetrachloride	0.676	0.629	7.0	117	0.00
30	T	1,4-Dioxane	0.000	0.000	0.0	0#	0.01
31	T	1,1-Dichloropropene	0.183	0.168	8.2	108	0.00
32	S	1,2-Dichloroethane-d4	0.198	0.165	16.7	105	0.01
33	TM	Benzene	0.904	0.834	7.7	111	0.00
34	T	Isobutyl alcohol	0.002	0.001	50.0#	106	0.01
35	T	1,2-Dichloroethane	0.232	0.191	17.7	102	0.00
36	TM	Trichloroethene	0.473	0.427	9.7	109	0.00
37	TC	1,2-Dichloropropane	0.270	0.232	14.1	107	0.00
38	T	Dibromomethane	0.120	0.100	16.7	106	0.00
39	T	Methylmethacrylate	0.045	0.038	15.6	105	0.00
40	T	Bromodichloromethane	0.432	0.381	11.8	111	0.00
41	T	2-Nitropropane	0.010	0.009	10.0	105	-0.02
42	T	2-Chloroethyl-vinyl ether	0.004	0.002	50.0#	223#	-0.04

(#) = Out of Range

Data File : C:\HPCHEM\1\DATA\122900\C18248.D Vial: 1
Acq On : 29 Dec 2000 14:03 Operator: TAG/VR
Sample : ICV/CCV 10 ppb (V00084,V00057) Inst : VOA-C
Misc : QC Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\HPCHEM\1\DATA\122900\12290025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Fri Dec 29 10:24:33 2000
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	AvgRF	CCRF	%Dev	Area%	Dev(min)
43	T	cis-1,3-Dichloropropene	0.312	0.274	12.2	109	0.00
44	T	4-Methyl-2-Pentanone	0.013	0.015	-15.4	120	0.19
45	I	Chlorobenzene-d5	1.000	1.000	0.0	112	0.00
46	S	Toluene-d8	1.481	1.561	-5.4	116	-0.02
47	TMC	Toluene	0.951	0.976	-2.6	115	0.00
48	T	trans-1,3-Dichloropropene	0.303	0.275	9.2	105	0.00
49	T	Ethylmethacrylate	0.171	0.148	13.5	103	-0.02
50	T	1,1,2-Trichloroethane	0.173	0.155	10.4	102	0.00
51	T	Tetrachloroethene	0.634	0.650	-2.5	113	0.00
52	T	1,3-Dichloropropane	0.318	0.288	9.4	102	0.00
53	T	2-Hexanone	0.046	0.035	23.9	87	-0.02
54	T	Dibromochloromethane	0.341	0.318	6.7	111	0.00
55	T	1,2-Dibromoethane	0.226	0.205	9.3	104	0.00
56	TMP	Chlorobenzene	1.083	1.058	2.3	111	0.00
57	T	1,1,1,2-Tetrachloroethane	0.456	0.428	6.1	107	0.00
58	TC	Ethylbenzene	1.936	1.967	-1.6	112	0.01
59	TG	total-Xylene	0.286	0.282	1.4	110	0.00
60	T	Styrene	0.962	0.925	3.8	106	0.00
61	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	110	0.00
62	TP	Bromoform	0.309	0.289	6.5	109	-0.02
63	T	Isopropylbenzene	4.857	4.882	-0.5	110	0.00
64	T	1,4-dichloro-2-Butene	0.310	0.253	18.4	101	0.01
65	S	Bromofluorobenzene	1.386	1.324	4.5	105	-0.02
66	T	Bromobenzene	0.826	0.823	0.4	113	-0.02
67	TP	1,1,2,2-Tetrachloroethane	0.379	0.339	10.6	103	0.00
68	T	1,2,3-Trichloropropane	0.310	0.253	18.4	101	0.01
69	T	n-Propylbenzene	5.212	5.255	-0.8	108	0.00
70	T	2-Chlorotoluene	2.852	2.710	5.0	106	-0.02
71	T	4-Chlorotoluene	3.798	3.649	3.9	107	0.00
72	T	1,3,5-Trimethylbenzene	3.722	3.642	2.1	106	0.00
73	T	Pentachloroethane	0.546	0.538	1.5	110	0.00
74	T	tert-Butylbenzene	4.507	4.512	-0.1	110	0.00
75	T	1,2,4-Trimethylbenzene	3.493	3.418	2.1	108	0.00
76	T	sec-Butylbenzene	5.596	5.637	-0.7	110	0.00
77	T	1,3-Dichlorobenzene	1.593	1.528	4.1	105	0.00
78	T	Isopropyltoluene	4.378	4.452	-1.7	110	0.00
79	T	1,4-Dichlorobenzene	1.784	1.718	3.7	113	0.00
80	T	1,2-Dichlorobenzene	1.252	1.187	5.2	107	0.00
81	T	n-Butylbenzene	4.257	4.422	-3.9	113	0.00
82	T	1,2-Dibromo-3-chloropropane	0.065	0.059	9.2	110	0.00

(#) = Out of Range

Data File : C:\HPCHEM\1\DATA\122900\C18248.D Vial: 1
Acq On : 29 Dec 2000 14:03 Operator: TAG/VR
Sample : ICV/CCV 10 ppb (V00084,V00057) Inst : VOA-C
Misc : QC Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\HPCHEM\1\DATA\122900\12290025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Fri Dec 29 10:24:33 2000
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	AvgRF	CCRF	%Dev	Area%	Dev(min)
83	T	1,2,4-trichlorobenzene	0.899	0.825	8.2	109	0.01
84	T	Hexachlorobutadiene	1.275	1.255	1.6	104	0.00
85	T	Naphthalene	0.711	0.512	28.0#	102	0.00
86	T	1,2,3-Trichlorobenzene	0.630	0.522	17.1	100	0.00

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\122900\C18251.D Vial: 2
Acq On : 29 Dec 2000 15:59 Operator: TAG/VR
Sample : QVW 122900 C1 Inst : VOA-C
Misc : WATER BLANK 25ml DF=1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 29 16:26 2000 Quant Results File: 12290025.RES

Quant Method : C:\HPCHEM\1\DATA\122900\12290025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Fri Dec 29 10:24:33 2000
Response via : Initial Calibration
DataAcq Meth : 12290025

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Pentafluorobenzene	6.45	168	441442	10.00 ug\L	-0.02
45) Chlorobenzene-d5	12.77	117	281553	10.00 ug\L	0.00
61) 1,4-Dichlorobenzene-d4	16.90	152	136373	10.00 ug\L	0.01
System Monitoring Compounds					
32) 1,2-Dichloroethane-d4	6.95	65	70982	8.10 ug\L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 81.00%		
46) Toluene-d8	10.27	98	414146	9.93 ug\L	0.00
Spiked Amount 10.000	Range 87 - 104		Recovery = 99.30%		
65) Bromofluorobenzene	14.87	95	182227	9.64 ug\L	0.00
Spiked Amount 10.000	Range 84 - 110		Recovery = 96.40%		
Target Compounds					Qvalue
16) Methylene Chloride	3.50	86	1123	~~-1.03 ug\L #~~	58
34) Isobutyl alcohol	7.16	43	182	~~-24.54 ug\L #~~	17
36) Trichloroethene	7.74	95	11421	~~-0.55 ug\L #~~	9
64) 1,4-dichloro-2-Butene	14.88	75	89405	~~21.16 ug\L #~~	100
68) 1,2,3-Trichloropropane	14.88	75	89405	~~21.15 ug\L #~~	100
85) Naphthalene	20.86	128	891	1.05 ug\L	100

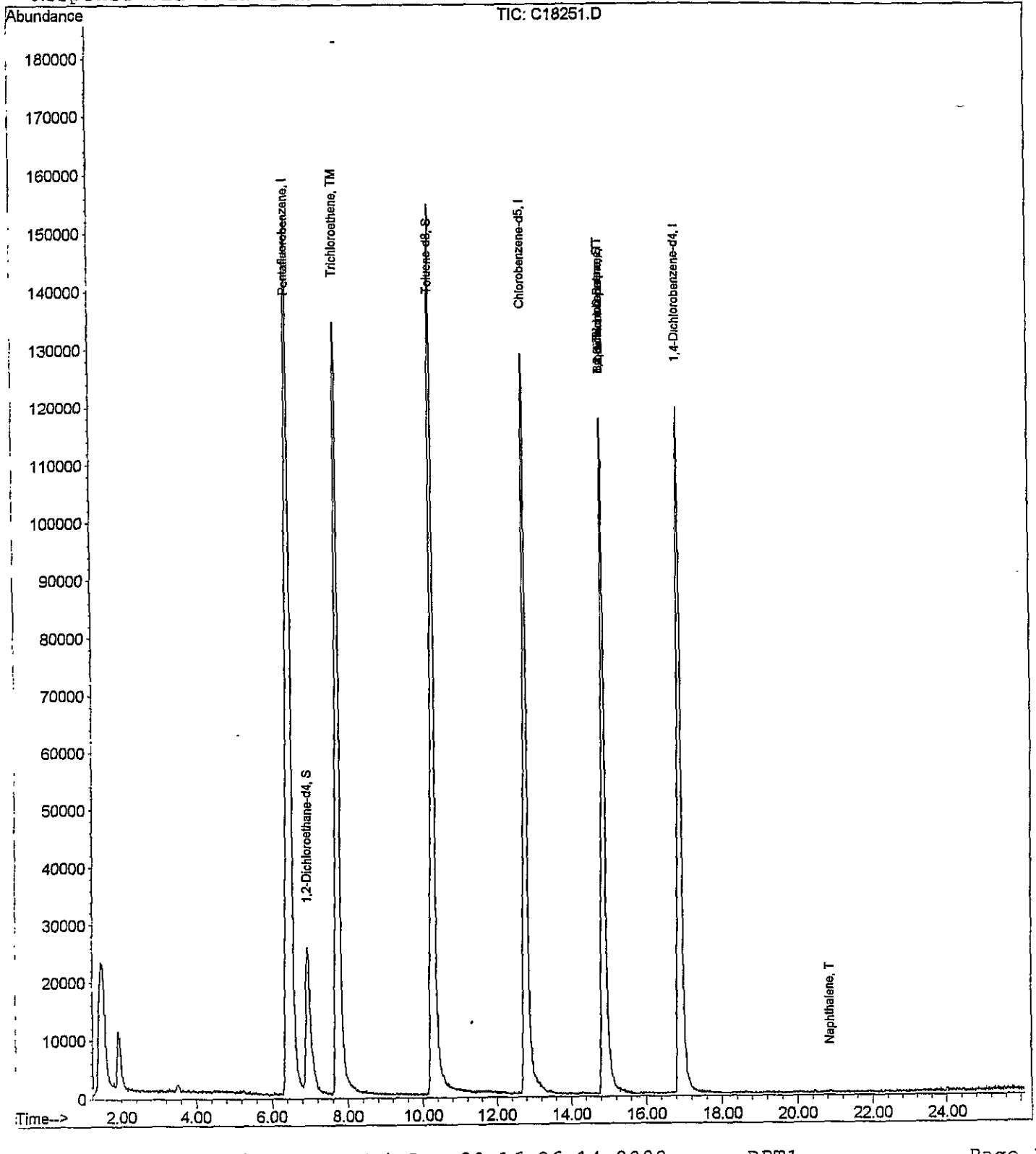
VR
12/29/00

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\122900\C18251.D Vial: 2
Acq On : 29 Dec 2000 15:59 Operator: TAG/VR
Sample : QVW 122900 C1 Inst : VOA-C
Misc : WATER BLANK 25ml DF=1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 29 16:26 2000 Quant Results File: 12290025.RES

Method : C:\HPCHEM\1\DATA\122900\12290025.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Fri Dec 29 08:48:11 2000
Response via : Initial Calibration



TestAmerica
INCORPORATED

CASE NARRATIVE
January 11, 2001

Client: ACCURA ANALYTICAL (2656)
ATTN: BONNIE HOGUE
6017 FINANCIAL DR.
NORCROSS, GA 30071
1-770-449-8800 ext. 233

Client Project: #26563
Laboratory Project: 220787
Date Received: 12/21/00

Matrix: Water
Number of samples : 8
Date Collected : 12/20/00

Sample Receipt Notes: Per enclosed Chain of Custody, samples were properly preserved and received in good condition on 12/21/00. There were no anomalies noted in sample log-in. Analyses were extracted and performed within method required holding times following Test Methods for Evaluating Solid Waste, Physical/Chemical Methods (SW-846). Package was completed as a 'Level IV' with 'TETRATEC' electronic deliverables.

QC Notes:

PAH by SW846/8310 – BATCH: 5773
Eight ground water samples (TA #'s 00-A183950-183957) was extracted and analyzed for PAH by Method SW846 8310. All QC calibrations were within method required QC limits. All analyte compounds were calculated using linear regression. The method prep blank had no reported detection for analyte compounds. Surrogate recoveries were within required QC limit of 20-140%, except for 029-SMW7-04-00-07 – 19% was outside the required QC limit biased low. The sample used for MS/MSD was Sample ID: 029-SMW11-04-00-07 of this delivery group. The MS/MSD had fourteen out of the thirty-six spiked compounds outside the required QC limit for this QC batch. The %RPD had four of the spiked compounds outside the required QC limits. The Control spiked compounds were within required historical QC limits. The QC was accepted for this batch.

Note:
The Concentration of the Control is at 2.0ug/L because prep lab inadvertently added 2 mls of the standard when they should have added 1 ml.

PH by SW846/9040/150.1- Batch: 1168
Eight ground water samples (TA #'s 00-A183950-183957) were analyzed for PH by Method SW846 9040 150.1. A duplicate was performed on client sample # 029-SMW11-Q4-00-07 (TA # 00-A183955) yielding an acceptable RPD value. The pH meters used were calibrated to acceptable tolerances within method limits.

If you have any questions as you review this package, please call me at 1-800-765-0980.

Thanks

Glenn L. Norton
Technical Services
TestAmerica, Inc. - Nashville

2960 FOSTER CREIGHTON DRIVE / NASHVILLE,TN 37204 / 615-726-0177 / FAX: 615-726-0954 / 800-765-0980

ACCURA ANALYTICAL LABORATORY, INC.

Environmental Analytical Services

FAX COC TO NORCROSS

220787

SUBCONTRACTOR CHAIN OF CUSTODY

SUBCONTRACTED TO: **TEST AMERICA, INC.**

Subcontracted by: ACCURA ANALYTICAL LABORATORY, INC **(Acct# 2656)**

Address: 6017 Financial Drive, Norcross, GA 30071

Accura Lab Contact Name: ~~Mr. David Fuller~~ Ms. Bonnie Hogue

Contact Phone # (770) 449 - 8800, ext. ~~204~~ 233

Fax Number: (770) 449 - 5477

12/21/00

AAL PROJECT #: ~~25~~ 00 26563

Quote Number: 0301001102199

12/21/00

For Laboratory Use Only

Custody Seal: (Y) N

QC Level: N 1 2 3 4

Entered into LIMS: 12/22/00

Page 1 OF 1

Init/Temp: 2.5°C

LAB Project # 220787

Sample Condition:

AAL #	Sample Date / Time	Comp	Grab	Matrix	Preserved	Station Location:	No. of Containers	PAH's (8310) *	Remarks	LAB #
AC	12/20/00 09:30		X	W	4°	029-SMW01-Q4-00-07	2	X	* CCI-NAVY	183950
AC	12:10					029-SMW02-Q4-00-07	2		DATA PACKAGE III/C	951
AC	10:40					029-SMW03-Q4-00-07	2		REQUIRED.	952
AC	14:05					029-SMW07-Q4-00-07	2			953
AC	13:25					029-SMW10-Q4-00-07	2			954
AC	11:25					029-SMW11-Q4-00-07	4		MS/MSD	955
AC						029-DUP-Q4-00-07	2			956
AC	10:50					029-EQB-Q4-00-07	2			183957
AC										
AC										

Relinquished By:	Date / Time	Received By:	Date / Time	Special Requirements Or Remarks:
	12/21/00 12:19		12/21 12:20	12/21/00 DR ~~PLEASE FAX RESULTS!!~~ FAX PRELIMINARY
Relinquished By:	Date / Time	Received By:	Date / Time	Turnaround Time Requested:
	12/21 17:00			14 day Preliminary / 21 day Final

Matrix Guide: (S = Soil) (W = Water) (L = Liquid) (C = Cartridge) (SL = Sludge) (A = Air Sample) (F = Foods) (M = Miscellaneous) (D = Digestate)

TestAmerica-sub-coc
Revised 05/10/97

TESTAMERICA,INC.-NASHVILLE

COOLER RECEIPT FORM

Client: Accura Analytical Lab BC# 220787

Cooler Received On: 12/02/00 And Opened On: 12/02/00 By: James Jacobs

(Signature) J Jacobs

1. Temperature of Cooler when opened 2.5 Degrees Celsius
2. Were custody seals on outside of cooler?.....YES (NO)
   a. If yes, how many, what kind and where:_____
3. Were custody seals on containers and intact?.....(NO) YES
4. Were the seals intact, signed, and dated correctly?.....~~YES NO~~
5. Were custody papers inside cooler?.....(YES) NO
6. Were custody papers properly filled out (ink,signed,etc)?.....(YES) NO
7. Did you sign the custody papers in the appropriate place?.....(YES) NO
8. What kind of packing material used? (Bubblewrap) Peanuts Vermiculite Other None
9. Was sufficient ice used (if appropriate)?.....(YES) NO
10. Did all bottles arrive in good condition(unbroken)?.....(YES) NO
11. Were all bottle labels complete (#,date,signed,pres,etc)?.....(YES) NO
12. Did all bottle labels and tags agree with custody papers?.....(YES) NO
13. Were correct bottles used for the analysis requested?.....(YES) NO
14. a. Were VOA vials received?.....YES (NO)
    b. Was there any observable head space present in any VOA vial?.....~~NO YES~~
15. Was sufficient amount of sample sent in each bottle?.....(YES) NO
16. Were correct preservatives used?.....(YES) NO
17. Was residual chlorine present?.....(NO) YES
17. Corrective action taken, if necessary:

See attached for resolution

PAH'S by SW846/8310

SUMMARY DATA

TESTAMERICA, INC
2960 FOSTER CREIGHTON DRIVE
NASHVILLE, TN 37204
1-800-765-0980

TestAmerica
INCORPORATED

Sample Identification

029-SMW01-Q4-00-07

Matrix: Ground water
pH:
Units: ug/l
Dilution Factor: 1.
Analysis Method: 8310
Delivery Group: 220787
Instrument:
Vol Extracted: ml
Extract Vol: ml

Lab Sample ID: 00-A183950
Date Sampled:: 12/20/00
Date Received: 12/22/00
Analysis Date: 1/ 4/01
Analysis Time: 19:40
Sample QC Group: 5773

Extraction Date:

FORM I

CAS NUMBER	ANALYTE	CONCENTRATION	FLAG
91-20-3	Naphthalene	1	U
83-32-9	Acenaphthene	1	U
120-12-7	Anthracene	1	U
206-44-0	Fluoranthene	0	U
7782-41-4	Fluorene	1	U
129-00-0	Pyrene	0	U
56-55-3	Benzo(a)anthracene	0	U
50-32-8	Benzo(a)pyrene	0	U
205-99-2	Benzo(b)fluoranthene	0	U
207-08-9	Benzo(k)fluoranthene	0	U
218-01-9	Chrysene	0	U
53-70-3	Dibenzo(a,h)anthracene	0	U
193-39-5	Indeno(1,2,3-cd)pyrene	0	U
208-96-8	Acenaphthylene	2	U
191-24-2	Benzo(g,h,i)perylene	1	U
85-01-8	Phenanthrene	1	U
90-12-0	1-Methylnapthalene	1	U
91-57-6	2-Methylnaphthalene	1	U

TestAmerica
INCORPORATED

Sample Identification

029-SMW02-Q4-00-07

Matrix: Ground water
pH:
Units: ug/l
Dilution Factor: 1.
Analysis Method: 8310
Delivery Group: 220787
Instrument:
Vol Extracted: ml
Extract Vol: ml

Lab Sample ID: 00-A183951
Date Sampled:: 12/20/00
Date Received: 12/22/00
Analysis Date: 1/ 4/01
Analysis Time: 19:40
Sample QC Group: 5773

Extraction Date:

FORM I

CAS NUMBER	ANALYTE	CONCENTRATION	FLAG
91-20-3	Naphthalene	1	U
83-32-9	Acenaphthene	1	U
120-12-7	Anthracene	1	U
206-44-0	Fluoranthene	0	U
7782-41-4	Fluorene	1	U
129-00-0	Pyrene	0	U
56-55-3	Benzo(a)anthracene	0	U
50-32-8	Benzo(a)pyrene	0	U
205-99-2	Benzo(b)fluoranthene	0	U
207-08-9	Benzo(k)fluoranthene	0	U
218-01-9	Chrysene	0	U
53-70-3	Dibenzo(a,h)anthracene	0	U
193-39-5	Indeno(1,2,3-cd)pyrene	0	U
208-96-8	Acenaphthylene	2	U
191-24-2	Benzo(g,h,i)perylene	1	U
85-01-8	Phenanthrene	1	U
90-12-0	1-Methylnapthalene	1	U
91-57-6	2-Methylnaphthalene	1	U

TestAmerica
INCORPORATED

Sample Identification

029-SMW03-Q4-00-07

Matrix: Ground water
pH:
Units: ug/l
Dilution Factor: 1.
Analysis Method: 8310
Delivery Group: 220787
Instrument:
Vol Extracted: ml
Extract Vol: ml

Lab Sample ID: 00-A183952
Date Sampled:: 12/20/00
Date Received: 12/22/00
Analysis Date: 1/ 4/01
Analysis Time: 19:40
Sample QC Group: 5773

Extraction Date:

FORM I

CAS NUMBER	ANALYTE	CONCENTRATION	FLAG
91-20-3	Naphthalene	1	U
83-32-9	Acenaphthene	1	U
120-12-7	Anthracene	1	U
206-44-0	Fluoranthene	0	U
7782-41-4	Fluorene	1	U
129-00-0	Pyrene	0	U
56-55-3	Benzo(a)anthracene	0	U
50-32-8	Benzo(a)pyrene	0	U
205-99-2	Benzo(b)fluoranthene	0	U
207-08-9	Benzo(k)fluoranthene	0	U
218-01-9	Chrysene	0	U
53-70-3	Dibenzo(a,h)anthracene	0	U
193-39-5	Indeno(1,2,3-cd)pyrene	0	U
208-96-8	Acenaphthylene	2	U
191-24-2	Benzo(g,h,i)perylene	1	U
85-01-8	Phenanthrene	1	U
90-12-0	1-Methylnapthalene	1	U
91-57-6	2-Methylnaphthalene	1	U

TestAmerica
INCORPORATED

Sample Identification

029-SMW07-Q4-00-07

Matrix: Ground water
pH:
Units: ug/l
Dilution Factor: 1.
Analysis Method: 8310
Delivery Group: 220787
Instrument:
Vol Extracted: ml
Extract Vol: ml

Lab Sample ID: 00-A183953
Date Sampled:: 12/20/00
Date Received: 12/22/00
Analysis Date: 1/ 4/01
Analysis Time: 19:40
Sample QC Group: 5773

Extraction Date:

FORM I

CAS NUMBER	ANALYTE	CONCENTRATION	FLAG
91-20-3	Naphthalene	11	U
83-32-9	Acenaphthene	11	U
120-12-7	Anthracene	7	U
206-44-0	Fluoranthene	2	U
7782-41-4	Fluorene	6	U
129-00-0	Pyrene	3	U
56-55-3	Benzo(a)anthracene	1	U
50-32-8	Benzo(a)pyrene	1	U
205-99-2	Benzo(b)fluoranthene	2	U
207-08-9	Benzo(k)fluoranthene	2	U
218-01-9	Chrysene	2	U
53-70-3	Dibenzo(a,h)anthracene	3	U
193-39-5	Indeno(1,2,3-cd)pyrene	5	U
208-96-8	Acenaphthylene	22	U
191-24-2	Benzo(g,h,i)perylene	8	U
85-01-8	Phenanthrene	7	U
90-12-0	1-Methylnapthalene	11	U
91-57-6	2-Methylnaphthalene	11	U

TestAmerica
INCORPORATED

Sample Identification

029-SMW10-Q4-00-07

Matrix: Ground water
pH:
Units: ug/l
Dilution Factor: 1.
Analysis Method: 8310
Delivery Group: 220787
Instrument:
Vol Extracted: ml
Extract Vol: ml

Lab Sample ID: 00-A183954
Date Sampled:: 12/20/00
Date Received: 12/22/00
Analysis Date: 1/ 4/01
Analysis Time: 19:40
Sample QC Group: 5773

Extraction Date:

FORM I

CAS NUMBER	ANALYTE	CONCENTRATION	FLAG
91-20-3	Naphthalene	1	U
83-32-9	Acenaphthene	1	U
120-12-7	Anthracene	1	U
206-44-0	Fluoranthene	0	U
7782-41-4	Fluorene	1	U
129-00-0	Pyrene	0	U
56-55-3	Benzo(a)anthracene	0	U
50-32-8	Benzo(a)pyrene	0	U
205-99-2	Benzo(b)fluoranthene	0	U
207-08-9	Benzo(k)fluoranthene	0	U
218-01-9	Chrysene	0	U
53-70-3	Dibenzo(a,h)anthracene	0	U
193-39-5	Indeno(1,2,3-cd)pyrene	0	U
208-96-8	Acenaphthylene	2	U
191-24-2	Benzo(g,h,i)perylene	1	U
85-01-8	Phenanthrene	1	U
90-12-0	1-Methylnapthalene	1	U
91-57-6	2-Methylnaphthalene	1	U

TestAmerica
INCORPORATED

Sample Identification

029-SMW11-Q4-00-07

Matrix: Ground water
pH:
Units: ug/l
Dilution Factor: 1.
Analysis Method: 8310
Delivery Group: 220787
Instrument:
Vol Extracted: ml
Extract Vol: ml

Lab Sample ID: 00-A183955
Date Sampled:: 12/20/00
Date Received: 12/22/00
Analysis Date: 1/ 4/01
Analysis Time: 19:40
Sample QC Group: 5773

Extraction Date:

FORM I

CAS NUMBER	ANALYTE	CONCENTRATION	FLAG
91-20-3	Naphthalene	11	
83-32-9	Acenaphthene	1	U
120-12-7	Anthracene	1	U
206-44-0	Fluoranthene	0	U
7782-41-4	Fluorene	1	U
129-00-0	Pyrene	0	U
56-55-3	Benzo(a)anthracene	0	U
50-32-8	Benzo(a)pyrene	0	U
205-99-2	Benzo(b)fluoranthene	0	U
207-08-9	Benzo(k)fluoranthene	0	U
218-01-9	Chrysene	0	U
53-70-3	Dibenzo(a,h)anthracene	0	U
193-39-5	Indeno(1,2,3-cd)pyrene	0	U
208-96-8	Acenaphthylene	2	U
191-24-2	Benzo(g,h,i)perylene	1	U
85-01-8	Phenanthrene	1	U
90-12-0	1-Methylnapthalene	6	
91-57-6	2-Methylnaphthalene	5	

TestAmerica
INCORPORATED

Sample Identification

029-DUP-Q4-00-07

Matrix: Ground water
pH:
Units: ug/l
Dilution Factor: 1.
Analysis Method: 8310
Delivery Group: 220787
Instrument:
Vol Extracted: ml
Extract Vol: ml

Lab Sample ID: 00-A183956
Date Sampled:: 12/20/00
Date Received: 12/22/00
Analysis Date: 1/ 4/01
Analysis Time: 19:40
Sample QC Group: 5773

Extraction Date:

FORM I

CAS NUMBER	ANALYTE	CONCENTRATION	FLAG
91-20-3	Naphthalene	1	U
83-32-9	Acenaphthene	1	U
120-12-7	Anthracene	1	U
206-44-0	Fluoranthene	0	U
7782-41-4	Fluorene	1	U
129-00-0	Pyrene	0	U
56-55-3	Benzo(a)anthracene	0	U
50-32-8	Benzo(a)pyrene	0	U
205-99-2	Benzo(b)fluoranthene	0	U
207-08-9	Benzo(k)fluoranthene	0	U
218-01-9	Chrysene	0	U
53-70-3	Dibenzo(a,h)anthracene	0	U
193-39-5	Indeno(1,2,3-cd)pyrene	0	U
208-96-8	Acenaphthylene	2	U
191-24-2	Benzo(g,h,i)perylene	1	U
85-01-8	Phenanthrene	1	U
90-12-0	1-Methylnapthalene	1	U
91-57-6	2-Methylnaphthalene	1	U

TestAmerica
INCORPORATED

Sample Identification

029-EQB-Q4-00-07

Matrix: Ground water
pH:
Units: ug/l
Dilution Factor: 1.
Analysis Method: 8310
Delivery Group: 220787
Instrument:
Vol Extracted: ml
Extract Vol: ml

Lab Sample ID: 00-A183957
Date Sampled:: 12/20/00
Date Received: 12/22/00
Analysis Date: 1/ 4/01
Analysis Time: 19:40
Sample QC Group: 5773

Extraction Date:

FORM I

CAS NUMBER	ANALYTE	CONCENTRATION	FLAG
91-20-3	Naphthalene	1	.... U
83-32-9	Acenaphthene	1	.... U
120-12-7	Anthracene	1	.... U
206-44-0	Fluoranthene	0	.... U
7782-41-4	Fluorene	1	.... U
129-00-0	Pyrene	0	.... U
56-55-3	Benzo(a)anthracene	0	.... U
50-32-8	Benzo(a)pyrene	0	.... U
205-99-2	Benzo(b)fluoranthene	0	.... U
207-08-9	Benzo(k)fluoranthene	0	.... U
218-01-9	Chrysene	0	.... U
53-70-3	Dibenzo(a,h)anthracene	0	.... U
193-39-5	Indeno(1,2,3-cd)pyrene	0	.... U
208-96-8	Acenaphthylene	2	.... U
191-24-2	Benzo(g,h,i)perylene	1	.... U
85-01-8	Phenanthrene	1	.... U
90-12-0	1-Methylnapthalene	1	.... U
91-57-6	2-Methylnaphthalene	1	.... U

TestAmerica
INCORPORATED

Sample Identification

BLANK

Matrix: Water
% Dry Weight:
Units: UG/L
Dilution Factor: 1
Analysis Method: SW8310
Delivery Group: 220787
Instrument:
Vol Extracted: 1000 ml
Extract Vol: 1.0 ml

Lab Sample ID: BLANK
Date Sampled: 12/20/00
Date Received: 12/22/00
Analysis Date: 1/ 4/01
Analysis Time: 19:40
Sample QC Group: 5773

Extraction Date:

FORM I

CAS NUMBER	ANALYTE	CONCENTRATION		FLAG
91-20-3	Naphthalene	1.00	....	U
83-32-9	Acenaphthene	1.00	....	U
120-12-7	Anthracene	0.66	....	U
206-44-0	Fluoranthene	0.21	....	U
7782-41-4	Fluorene	0.50	....	U
129-00-0	Pyrene	0.27	....	U
56-55-3	Benzo(a)anthracene	0.13	....	U
50-32-8	Benzo(a)pyrene	0.10	....	U
205-99-2	Benzo(b)fluoranthene	0.18	....	U
207-08-9	Benzo(k)fluoranthene	0.17	....	U
218-01-9	Chrysene	0.15	....	U
53-70-3	Dibenzo(a,h)anthracene	0.30	....	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.43	....	U
208-96-8	Acenaphthylene	2.00	....	U
191-24-2	Benzo(g,h,i)perylene	0.76	....	U
85-01-8	Phenanthrene	0.64	....	U
90-12-0	1-Methylnapthalene	1.00	....	U
91-57-6	2-Methylnaphthalene	1.00	....	U

2A

8310 PAH SURROGATE RECOVERY SUMMARY

Lab Name: Test America

SDG # 220787

	SAMPLE NO.			Surrogat % Recovery		TOT OUT
01	BLANK W			96		0
02	029-SMW11-04-00-07 MS			86		0
03	029-SMW11-04-00-07 MSD			118		0
04	CONTROL W			126		0
05	029-SMW01-04-00-07			30		0
06	029-SMW02-04-00-07			33		0
07	029-SMW03-04-00-07			53		0
08	029-SMW7-04-00-07			19		1
09	029-SMW10-04-00-07			52		0
10	029-SMW11-04-00-07			37		0
11	029-DUP-04-00-07			39		0
12	029-E0B-04-00-07			75		0
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						
26						
27						
28						
29						
30						

QC LIMITS: 20-140

Surrogate used: **P-Terphenyl d-14**

(+): Surrogate not determined due to interference

*** Values outside of contract required QC limits**

D System Monitoring Compound diluted out

8310 PAH MATRIX SPIKE/SPIKE DUPLICATE SUMMARY

Lab Name : Test America **Matrix Spike No:** 029-SMW11-04-00-07 MS

SDG # 220787

COMPOUND	Spike Added ug/L		Sample Conc ug/L	MS CONC ug/L	MS %	QC Limits %REC	
Napthalene	1.000		11.1	12.84	175.0	20-151	*
Acenapthylene	1.000		0.0	0.50	50.0	20-140	
1-Methyl-naphthalene	1.000		6.2	7.16	99.0	10-118	
2-Methyl-naphthalene	1.000		4.8	4.74	-2.0	10-118	*
Acenapthene	1.000		0.0	0.44	44.0	18-134	
Flourene	1.000		0.0	1.14	114.0	40-143	
Phenanthrene	1.000		0.0	1.56	156.0	33-105	*
Anthracene	1.000		0.0	1.14	114.0	38-97	*
Flouranthene	1.000		0.0	1.28	128.0	40-143	
Pyrene	1.000		0.0	1.32	132.0	33-129	*
Benzo(a)anthracene	1.000		0.0	1.04	104.0	47-113	
Chrysene	1.000		0.0	0.90	90.0	45-115	
Benzo(b)flouranthene	1.000		0.0	1.14	114.0	47-113	*
Benzo(k)flouranthene	1.000		0.0	0.96	96.0	48-118	
Benzo(a)pyrene	1.000		0.0	0.90	90.0	34-119	
Dibenz(ah)anthracene	1.000		0.0	1.08	108.0	42-113	
Benzo(ghi)Perylene	1.000		0.0	0.88	88.0	42-130	
Indeno(123cd)pyrene	1.000		0.0	0.88	88.0	38-114	

COMPOUND	Raw Value ug/L		MSD Concen ug/L	MSD REC %	% RPD	%RPD QC Limits	QC Limits %REC
Napthalene	7.79000		15.58	449.0 *	88 *	70	20-151
Acenapthylene	0.13000		0.26	26.0	63	91	20-140
1-Methyl-naphthalene	4.43000		8.86	269.0 *	92 *	31	10-118
2-Methyl-naphthalene	2.94000		5.88	112.0	207 *	79	10-118
Acenapthene	1.36000		2.72	272.0 *	144 *	77	18-134
Flourene	0.69000		1.38	138.0	19	61	40-143
Phenanthrene	0.92000		1.84	184.0 *	16	65	33-105
Anthracene	0.72000		1.44	144.0 *	23	62	38-97
Flouranthene	0.82000		1.64	164.0 *	25	64	40-143
Pyrene	0.82000		1.64	164.0 *	22	62	33-129
Benzo(a)anthracene	0.61000		1.22	122.0 *	16	59	47-113
Chrysene	0.55000		1.10	110.0	20	58	45-115
Benzo(b)flouranthene	0.46000		0.92	92.0	21	59	47-113
Benzo(k)flouranthene	0.48000		0.96	96.0	0	59	48-118
Benzo(a)pyrene	0.43000		0.86	86.0	5	62	34-119
Dibenz(ah)anthracene	0.34000		0.68	68.0	45	64	42-113
Benzo(ghi)Perylene	0.31000		0.62	62.0	35	69	42-130
Indeno(123cd)pyrene	0.40000		0.80	80.0	10	70	38-114

* **Values outside of contract required QC limits**

8310 PAH LABORATORY CONTROL SPIKE SUMMARY

Lab Name : Test America **Lab Control Spike No:** CONTROL W

SDG # 220787

COMPOUND	Spike Added ug/L		Sample Conc. ug/L	Raw Value ug/L	LCS REC ug/L	LCS %	QC Limits Limits
Napthalene	2.000		0	1.56	1.56000	78.0	20-151
Acenapthylene	2.000		0	1.24	1.24000	62.0	20-140
1-Methyl-naphthalene	2.000		0	0 92	0.92000	46.0	26-100
2-Methyl-naphthalene	2.000		0	0.94	0.94000	47.0	10-118
Acenapthene	2.000		0	0.82	0.82000	41.0	18-134
Flourene	2.000		0	1.24	1.24000	62.0	33-105
Phenanthrene	2.000		0	1.28	1.28000	64.0	37-105
Anthracene	2.000		0	1.22	1.22000	61.0	38-97
Flouranthene	2.000		0	1.36	1.36000	68.0	40-143
Pyrene	2.000		0	1.26	1.26000	63.0	33-129
Benzo(a)anthracene	2.000		0	1.32	1.32000	66.0	47-113
Chrysene	2.000		0	1.52	1.52000	76.0	45-115
Benzo(b)flouranthene	2.000		0	1.28	1.28000	64.0	47-113
Benzo(k)flouranthene	2.000		0	1.30	1.30000	65.0	48-118
Benzo(a)pyrene	2.000		0	1.26	1.26000	63.0	34-119
Dibenz(ah)anthracene	2.000		0	1.50	1.50000	75.0	42-113
Benzo(ghi)Perylene	2.000		0	1.28	1.28000	64.0	42-130
Indeno(123cd)pyrene	2.000		0	1.28	1.28000	64.0	38-114

* **Values outside of contract required QC limits**

4C

SAMPLE NO.

8310 PAH,S METHOD BLANK SUMMARY

XBLANK W

Lab Name: Test America **Lab Sample ID:** 30515 wbb

SDG # 220787 **Lab File ID:** 0104hp3.021

Instrument ID: HPLC 3 **Date Analyzed:** 01/04/00

Extract Volume: 1000 ml **Time Analyzed:** 17:55

Volume Extracted: 1 ml **Date Received:** 12/21/00

HPLC Column: Reverse Pahse c18 **Date Extracted:** 12/26/00

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD AND LCS:

	CLIENT ID	LAB ID	LAB FILE ID	DATE	TIME ANALYZED
01	029-SMW11-04-00-07 MS	30516 wsb	0104hp3.022	1/4/01	18:21
02	029-SMW11-04-00-07 MSD	30517 wsb	0104hp3.023	1/4/01	18:48
03	CONTROL W	30984 lcs	0104hp3.024	1/4/01	19:14
04	029-SMW01-04-00-07	183950	0104hp3.025	1/4/01	19:40
05	029-SMW02-04-00-07	183951	0104hp3.026	1/4/01	20:06
06	029-SMW03-04-00-07	183952	0104hp3.027	1/4/01	20:32
07	029-SMW7-04-00-07	183953	0104hp3.028	1/4/01	20:59
08	029-SMW10-04-00-07	183954	0104hp3 029	1/4/01	21:25
09	029-SMW11-04-00-07	183955	0104hp3.030	1/4/01	21:51
10	029-DUP-04-00-07	183956	0104hp3.032	1/4/01	22:44
11	029-E0B-04-00-07	183957	0104hp3 033	1/4/01	23:10
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					

COMMENTS:

PAH'S by SW846/8310

RAW DATA

TESTAMERICA, INC
2960 FOSTER CREIGHTON DRIVE
NASHVILLE, TN 37204
1-800-765-0980

TestAmerica
INCORPORATED

Sample Identification

029-SMW01-Q4-00-07

Matrix: Ground water
pH:
Units: ug/l
Dilution Factor: 1.
Analysis Method: 8310
Delivery Group: 220787
Instrument:
Vol Extracted: ml
Extract Vol: ml

Lab Sample ID: 00-A183950
Date Sampled:: 12/20/00
Date Received: 12/22/00
Analysis Date: 1/ 4/01
Analysis Time: 19:40
Sample QC Group: 5773

Extraction Date:

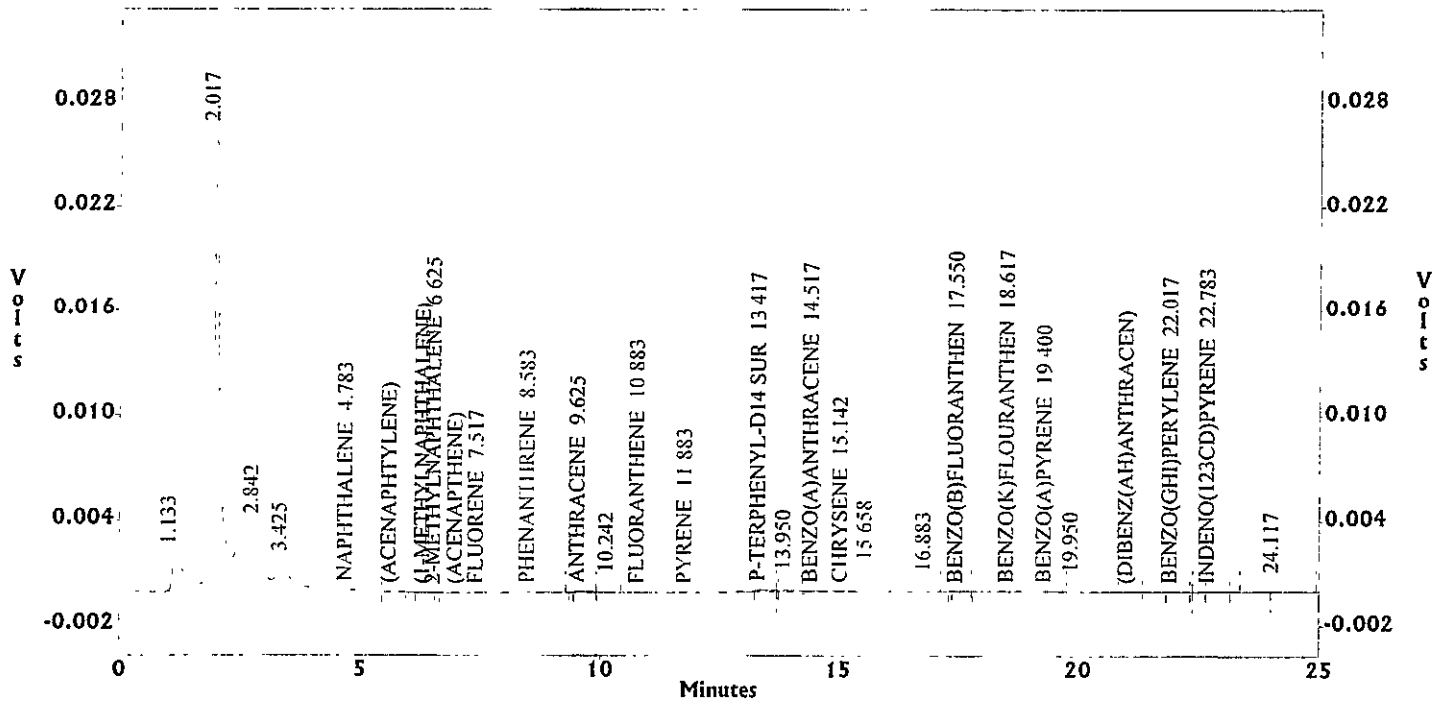
FORM I

CAS NUMBER	ANALYTE	CONCENTRATION	FLAG
91-20-3	Naphthalene	1	U
83-32-9	Acenaphthene	1	U
120-12-7	Anthracene	1	U
206-44-0	Fluoranthene	0	U
7782-41-4	Fluorene	1	U
129-00-0	Pyrene	0	U
56-55-3	Benzo(a)anthracene	0	U
50-32-8	Benzo(a)pyrene	0	U
205-99-2	Benzo(b)fluoranthene	0	U
207-08-9	Benzo(k)fluoranthene	0	U
218-01-9	Chrysene	0	U
53-70-3	Dibenzo(a,h)anthracene	0	U
193-39-5	Indeno(1,2,3-cd)pyrene	0	U
208-96-8	Acenaphthylene	2	U
191-24-2	Benzo(g,h,i)perylene	1	U
85-01-8	Phenanthrene	1	U
90-12-0	1-Methylnapthalene	1	U
91-57-6	2-Methylnaphthalene	1	U

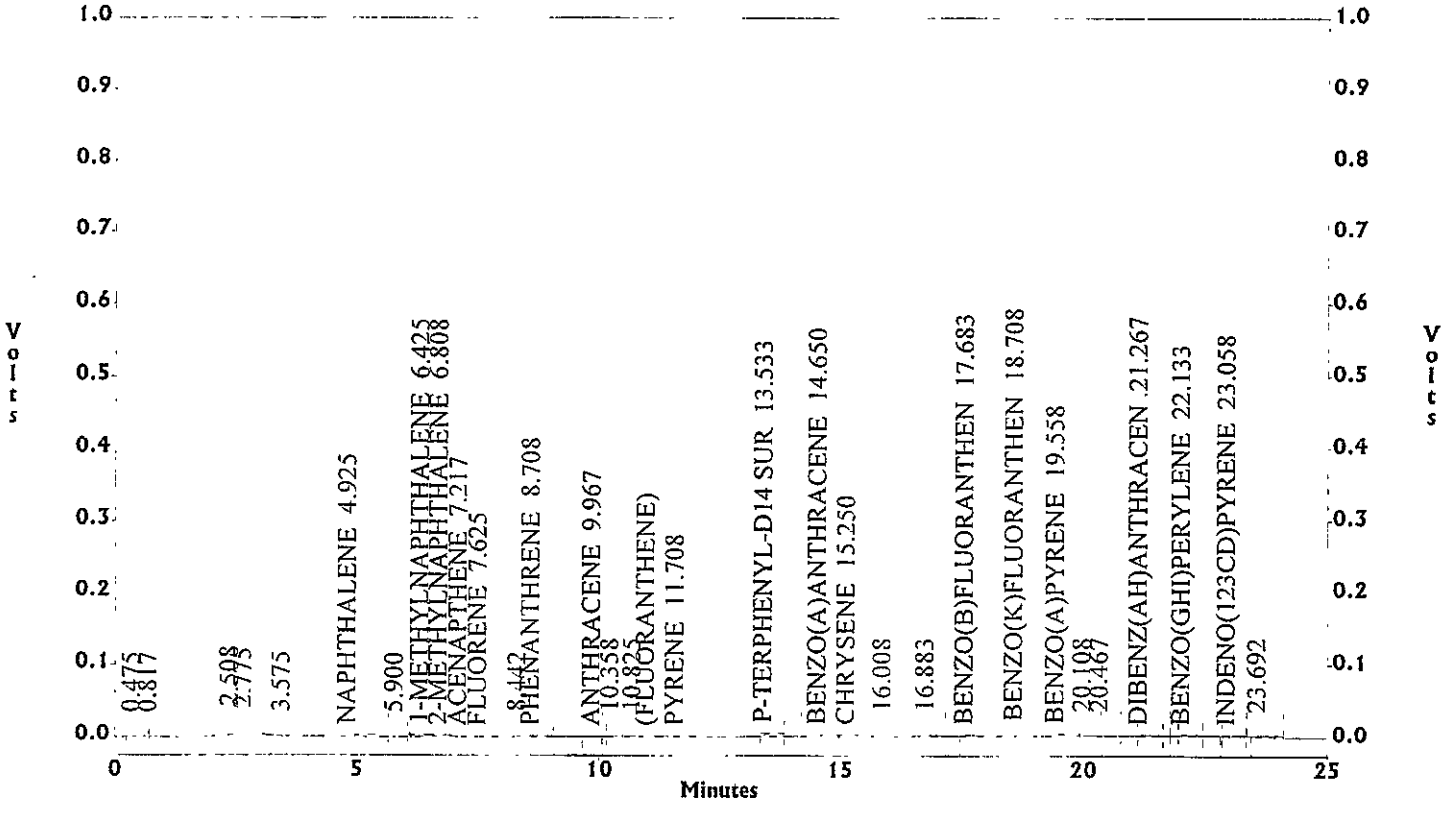
HPLC 1

File : c:\ezchromb\chrom\0104hp3.025
Method : c:\ezchromb\methods\lc1\13ph1204.met
Sample ID : 183950
Acquired : Jan 04, 2001 19:40:29
Printed : Jan 05, 2001 07:40:36
User : System

c:\ezchromb\chrom\0104hp3.025 -- Channel A



c:\ezchromb\chrom\0104hp3.025 -- Channel B



HPLC 1

File : c:\ezchromb\chrom\0104hp3.025
Method : c:\ezchromb\methods\lc1\l3ph1204.met
Sample ID : 183950
Acquired : Jan 04, 2001 19:40:29
Printed : Jan 05, 2001 07:40:37
User : System

Channel A Results

Peak Name	Time	Area	Conc.	
NAPHTHALENE	4.78	390	0.20	
ACENAPHTYLENE	5.70	0	0.00	
1-METHYLNAPHT	6.40	0	0.00	
2-METHYLNAPHT	6.63	133	0.08	
ACENAPTHENE	7.08	0	0.00	
FLUORENE	7.52	320	0.04	
PHENANTHRENE	8.58	987	0.04	
ANTHRACENE	9.63	772	0.01	
FLUORANTHENE	10.88	190	0.03	
PYRENE	11.88	493	0.10	
P-TERPHENYL-D	13.42	1492	0.30	✓
BENZO(A)ANTHR	14.52	211	0.02	
CHRYSENE	15.14	320	0.02	
BENZO(B)FLUOR	17.55	145	0.01	
BENZO(K)FLOUR	18.62	473	0.06	
BENZO(A)PYREN	19.40	394	0.06	
DIBENZ(AH)ANT	21.10	0	0.00	
BENZO(GHI)PER	22.02	442	0.10	
INDENO(123CD)	22.78	687	0.08	

Channel B Results

Name	Time	Area	Conc.
NAPHTHALENE	4.93	60505	0.23
1-METHYLNAPHT	6.43	38487	0.04
2-METHYLNAPHT	6.81	25822	0.00
ACENAPTHENE	7.22	5403	0.00
FLUORENE	7.63	8398	0.08
PHENANTHRENE	8.71	11764	0.00
ANTHRACENE	9.97	12983	0.05
FLUORANTHENE	11.10	0	0.00
PYRENE	11.71	23998	0.03
P-TERPHENYL-D	13.53	113839	0.53
BENZO(A)ANTHR	14.65	37519	0.04
CHRYSENE	15.25	57235	0.03
BENZO(B)FLUOR	17.68	20566	0.00
BENZO(K)FLUOR	18.71	103571	0.00
BENZO(A)PYREN	19.56	38704	0.03
DIBENZ(AH)ANT	21.27	16342	0.00
BENZO(GHI)PER	22.13	23472	0.00
INDENO(123CD)	23.06	6190	0.05

TestAmerica
INCORPORATED

Sample Identification

029-SMW02-Q4-00-07

Matrix: Ground water
pH:
Units: ug/l
Dilution Factor: 1.
Analysis Method: 8310
Delivery Group: 220787
Instrument:
Vol Extracted: ml
Extract Vol: ml

Lab Sample ID: 00-A183951
Date Sampled:: 12/20/00
Date Received: 12/22/00
Analysis Date: 1/ 4/01
Analysis Time: 19:40
Sample QC Group: 5773

Extraction Date:

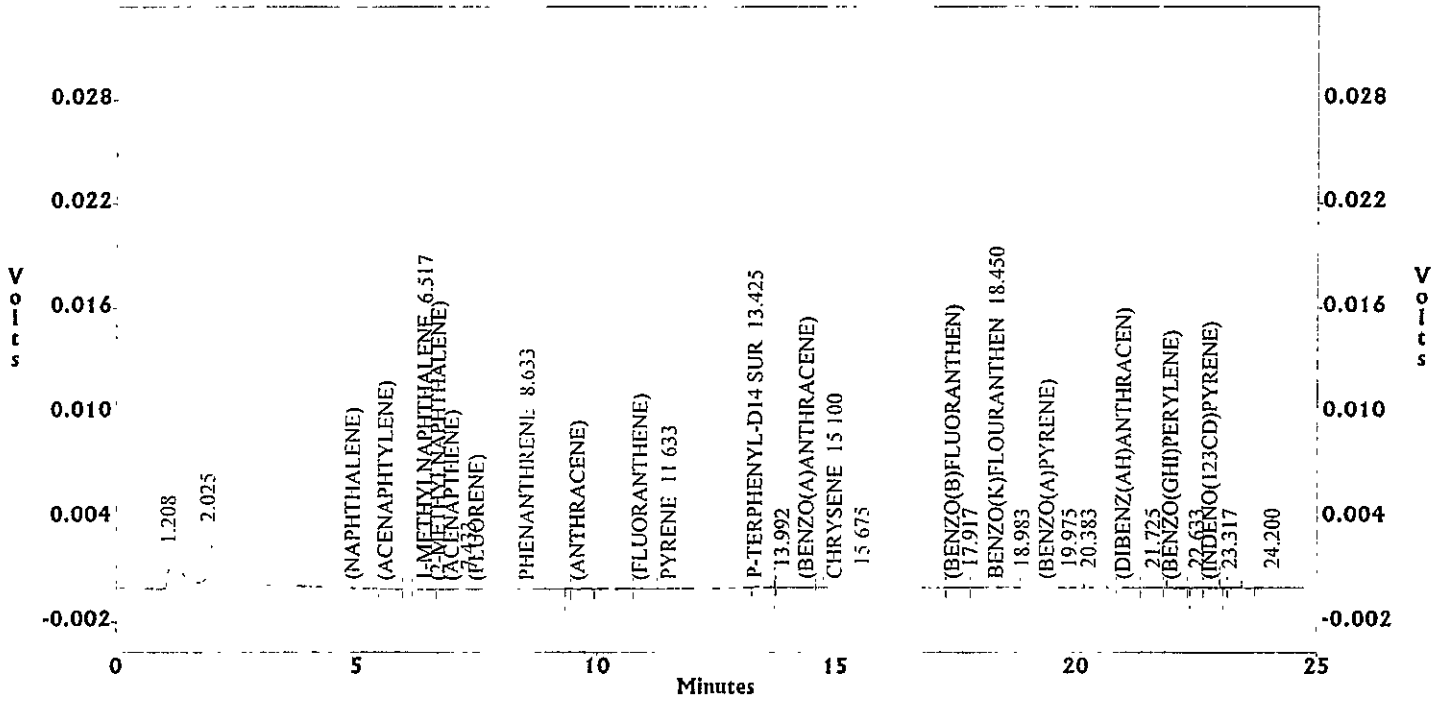
FORM I

CAS NUMBER	ANALYTE	CONCENTRATION	FLAG
91-20-3	Naphthalene	1	.... U
83-32-9	Acenaphthene	1	.... U
120-12-7	Anthracene	1	.... U
206-44-0	Fluoranthene	0	.... U
7782-41-4	Fluorene	1	.... U
129-00-0	Pyrene	0	.... U
56-55-3	Benzo(a)anthracene	0	.... U
50-32-8	Benzo(a)pyrene	0	.... U
205-99-2	Benzo(b)fluoranthene	0	.... U
207-08-9	Benzo(k)fluoranthene	0	.... U
218-01-9	Chrysene	0	.... U
53-70-3	Dibenzo(a,h)anthracene	0	.... U
193-39-5	Indeno(1,2,3-cd)pyrene	0	.... U
208-96-8	Acenaphthylene	2	.... U
191-24-2	Benzo(g,h,i)perylene	1	.... U
85-01-8	Phenanthrene	1	.... U
90-12-0	1-Methylnapthalene	1	.... U
91-57-6	2-Methylnaphthalene	1	.... U

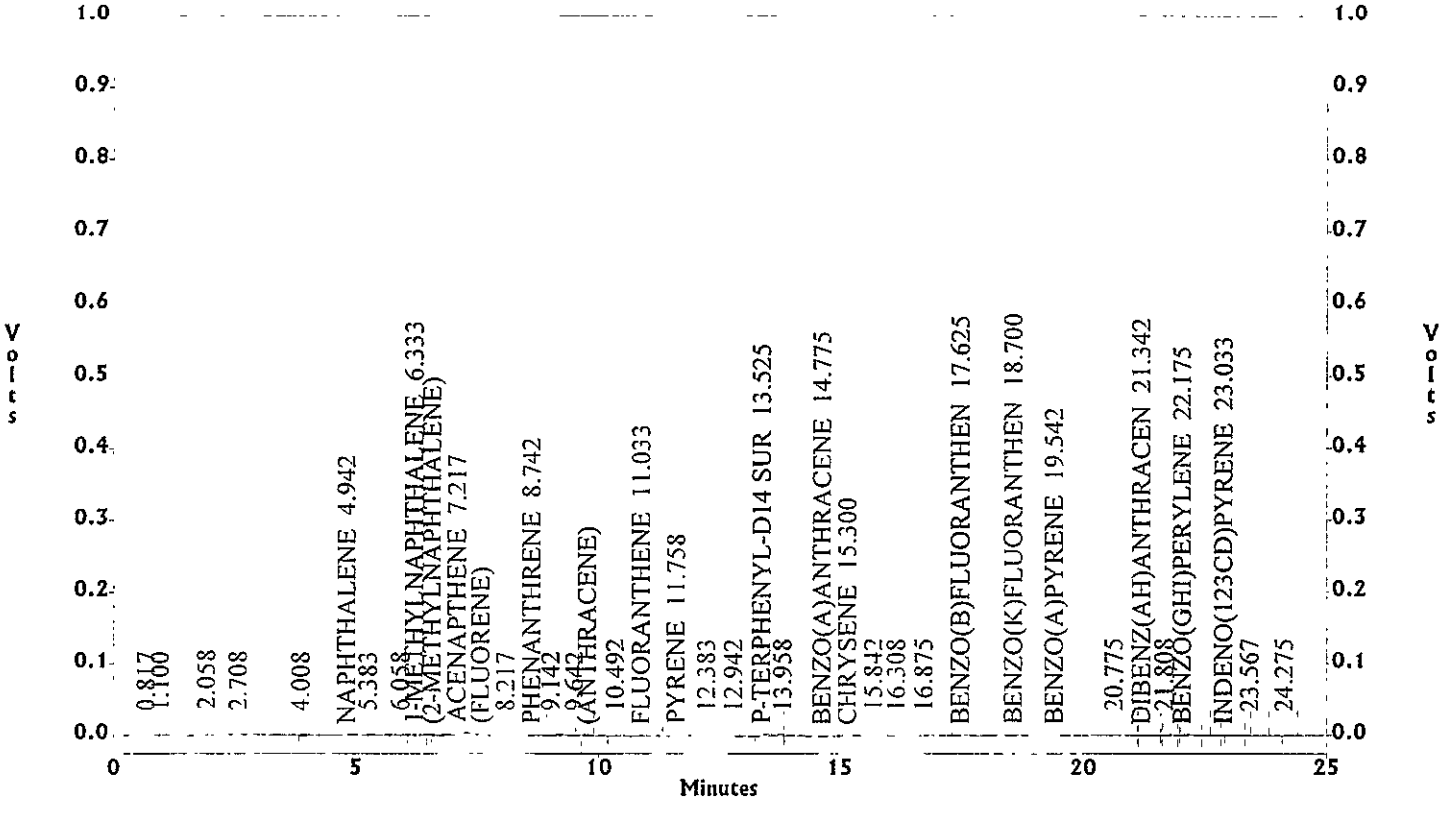
HPLC 1

File : c:\ezchromb\chrom\0104hp3.026
Method : c:\ezchromb\methods\lc1\l3ph1204.met
Sample ID : 183951
Acquired : Jan 04, 2001 20:06:43
Printed : Jan 05, 2001 07:40:39
User : System

c:\ezchromb\chrom\0104hp3.026 -- Channel A



c:\ezchromb\chrom\0104hp3.026 -- Channel B



HPLC 1

File : c:\ezchromb\chrom\0104hp3.026
Method : c:\ezchromb\methods\lc1\l3ph1204.met
Sample ID : 183951
Acquired : Jan 04, 2001 20:06:43
Printed : Jan 05, 2001 07:40:39
User : System

Channel A Results

Peak Name	Time	Area	Conc.
NAPHTHALENE	5.02	0	0.00
ACENAPHTYLENE	5.70	0	0.00
1-METHYLNAPHT	6.52	64	0.06
2-METHYLNAPHT	6.80	0	0.00
ACENAPTHENE	7.08	0	0.00
FLUORENE	7.60	0	0.00
PHENANTHRENE	8.63	390	0.02
ANTHRACENE	9.70	0	0.00
FLUORANTHENE	11.02	0	0.00
PYRENE	11.63	1151	0.23
P-TERPHENYL-D	13.43	1627	0.33
BENZO(A)ANTHR	14.50	0	0.00
CHRYSENE	15.10	239	0.02
BENZO(B)FLUOR	17.55	0	0.00
BENZO(K)FLOUR	18.45	146	0.03
BENZO(A)PYREN	19.51	0	0.00
DIBENZ(AH)ANT	21.10	0	0.00
BENZO(GHI)PER	22.08	0	0.00
INDENO(123CD)	22.90	0	0.00

Channel B Results

Name	Time	Area	Conc.
NAPHTHALENE	4.94	18031	0.08
1-METHYLNAPHT	6.33	6281	0.00
2-METHYLNAPHT	6.70	0	0.00
ACENAPTHENE	7.22	95406	0.09
FLUORENE	7.70	0	0.00
PHENANTHRENE	8.74	7497	0.00
ANTHRACENE	9.90	0	0.00
FLUORANTHENE	11.03	12956	0.05
PYRENE	11.76	37580	0.05
P-TERPHENYL-D	13.52	45815	0.18
BENZO(A)ANTHR	14.77	10313	0.02
CHRYSENE	15.30	14757	0.02
BENZO(B)FLUOR	17.63	6352	0.00
BENZO(K)FLUOR	18.70	21494	0.00
BENZO(A)PYREN	19.54	9534	0.02
DIBENZ(AH)ANT	21.34	2383	0.00
BENZO(GHI)PER	22.17	7612	0.00
INDENO(123CD)	23.03	5023	0.04

TestAmerica
INCORPORATED

Sample Identification

029-SMW03-Q4-00-07

Matrix: Ground water
pH:
Units: ug/l
Dilution Factor: 1.
Analysis Method: 8310
Delivery Group: 220787
Instrument:
Vol Extracted: ml
Extract Vol: ml

Lab Sample ID: 00-A183952
Date Sampled:: 12/20/00
Date Received: 12/22/00
Analysis Date: 1/ 4/01
Analysis Time: 19:40
Sample QC Group: 5773

Extraction Date:

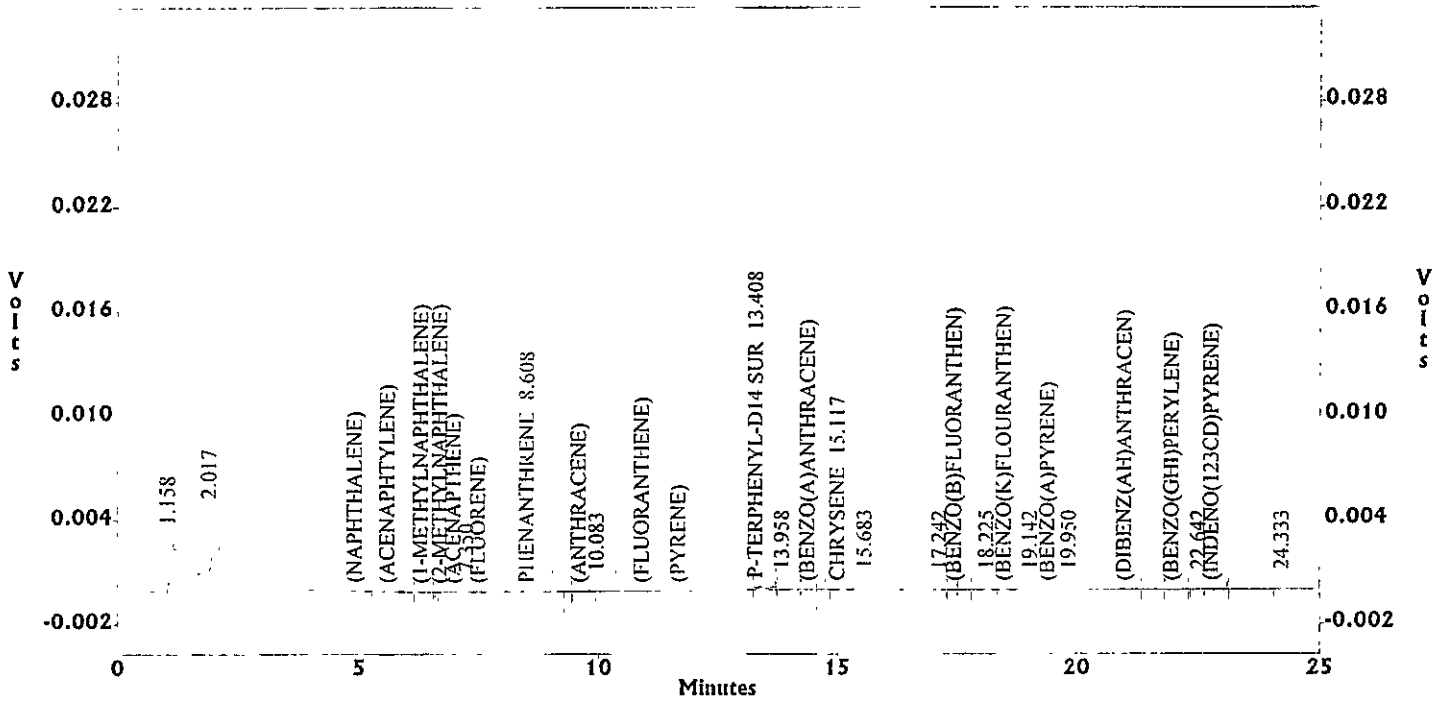
FORM I

CAS NUMBER	ANALYTE	CONCENTRATION	FLAG
91-20-3	Naphthalene	1	U
83-32-9	Acenaphthene	1	U
120-12-7	Anthracene	1	U
206-44-0	Fluoranthene	0	U
7782-41-4	Fluorene	1	U
129-00-0	Pyrene	0	U
56-55-3	Benzo(a)anthracene	0	U
50-32-8	Benzo(a)pyrene	0	U
205-99-2	Benzo(b)fluoranthene	0	U
207-08-9	Benzo(k)fluoranthene	0	U
218-01-9	Chrysene	0	U
53-70-3	Dibenzo(a,h)anthracene	0	U
193-39-5	Indeno(1,2,3-cd)pyrene	0	U
208-96-8	Acenaphthylene	2	U
191-24-2	Benzo(g,h,i)perylene	1	U
85-01-8	Phenanthrene	1	U
90-12-0	1-Methylnapthalene	1	U
91-57-6	2-Methylnaphthalene	1	U

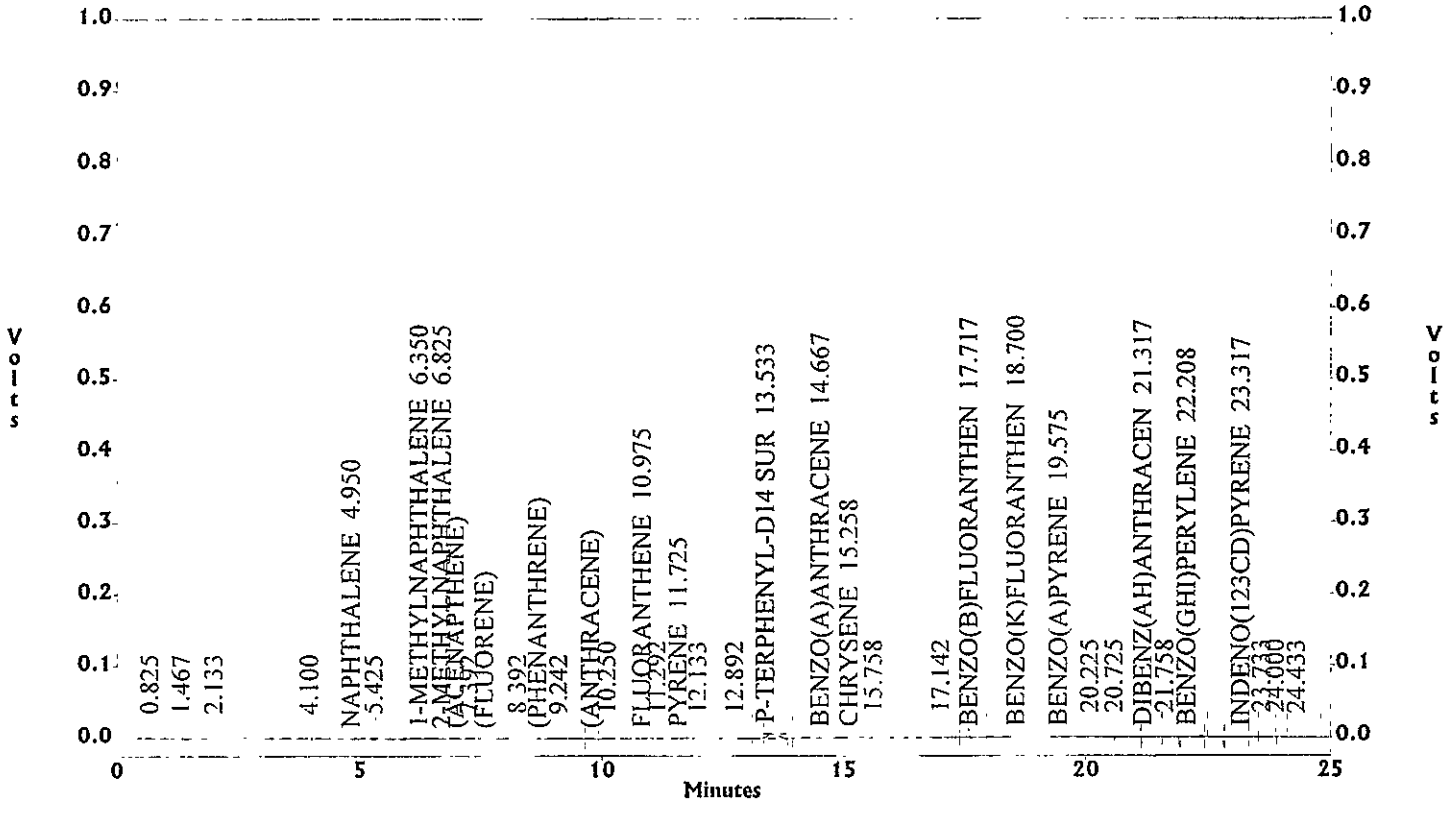
HPLC 1

File : c:\ezchromb\chrom\0104hp3.027
Method : c:\ezchromb\methods\lc1\13ph1204.met
Sample ID : 183952
Acquired : Jan 04, 2001 20:32:56
Printed : Jan 05, 2001 07:40:41
User : System

c:\ezchromb\chrom\0104hp3.027 -- Channel A



c:\ezchromb\chrom\0104hp3.027 -- Channel B



HPLC 1

File : c:\ezchromb\chrom\0104hp3.027
Method : c:\ezchromb\methods\lc1\l3ph1204.met
Sample ID : 183952
Acquired : Jan 04, 2001 20:32:56
Printed : Jan 05, 2001 07:40:41
User : System

Channel A Results

Peak Name	Time	Area	Conc.
NAPHTHALENE	5.02	0	0.00
ACENAPHTYLENE	5.70	0	0.00
1-METHYLNAPHT	6.40	0	0.00
2-METHYLNAPHT	6.80	0	0.00
ACENAPTHENE	7.08	0	0.00
FLUORENE	7.60	0	0.00
PHENANTHRENE	8.61	428	0.02
ANTHRACENE	9.70	0	0.00
FLUORANTHENE	11.02	0	0.00
PYRENE	11.80	0	0.00
P-TERPHENYL-D	13.41	2618	0.53
BENZO(A)ANTHR	14.50	0	0.00
CHRYSENE	15.12	260	0.02
BENZO(B)FLUOR	17.55	0	0.00
BENZO(K)FLOUR	18.59	0	0.00
BENZO(A)PYREN	19.51	0	0.00
DIBENZ(AH)ANT	21.10	0	0.00
BENZO(GHI)PER	22.08	0	0.00
INDENO(123CD)	22.90	0	0.00

Channel B Results

Name	Time	Area	Conc.
NAPHTHALENE	4.95	19829	0.09
1-METHYLNAPHT	6.35	15917	0.00
2-METHYLNAPHT	6.82	6824	0.00
ACENAPTHENE	7.10	0	0.00
FLUORENE	7.70	0	0.00
PHENANTHRENE	8.80	0	0.00
ANTHRACENE	9.90	0	0.00
FLUORANTHENE	10.98	17101	0.08
PYRENE	11.73	7971	0.00
P-TERPHENYL-D	13.53	106029	0.49
BENZO(A)ANTHR	14.67	36407	0.04
CHRYSENE	15.26	26785	0.02
BENZO(B)FLUOR	17.72	7799	0.00
BENZO(K)FLUOR	18.70	31521	0.00
BENZO(A)PYREN	19.58	15050	0.02
DIBENZ(AH)ANT	21.32	3299	0.00
BENZO(GHI)PER	22.21	7524	0.00
INDENO(123CD)	23.32	4356	0.04

TestAmerica
INCORPORATED

Sample Identification

029-SMW07-Q4-00-07

Matrix: Ground water
pH:
Units: ug/l
Dilution Factor: 1.
Analysis Method: 8310
Delivery Group: 220787
Instrument:
Vol Extracted: ml
Extract Vol: ml

Lab Sample ID: 00-A183953
Date Sampled:: 12/20/00
Date Received: 12/22/00
Analysis Date: 1/ 4/01
Analysis Time: 19:40
Sample QC Group: 5773

Extraction Date:

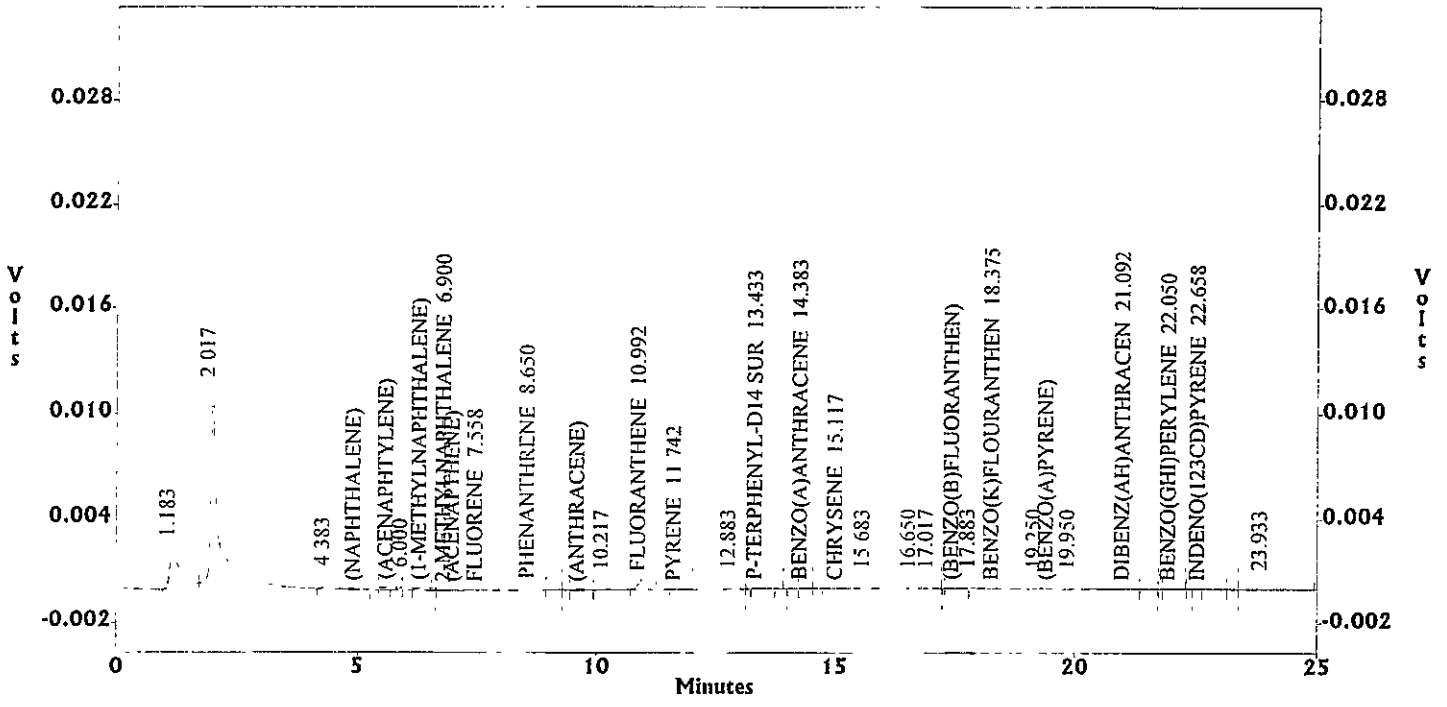
FORM I

CAS NUMBER	ANALYTE	CONCENTRATION	FLAG
91-20-3	Naphthalene	11	U
83-32-9	Acenaphthene	11	U
120-12-7	Anthracene	7	U
206-44-0	Fluoranthene	2	U
7782-41-4	Fluorene	6	U
129-00-0	Pyrene	3	U
56-55-3	Benzo(a)anthracene	1	U
50-32-8	Benzo(a)pyrene	1	U
205-99-2	Benzo(b)fluoranthene	2	U
207-08-9	Benzo(k)fluoranthene	2	U
218-01-9	Chrysene	2	U
53-70-3	Dibenzo(a,h)anthracene	3	U
193-39-5	Indeno(1,2,3-cd)pyrene	5	U
208-96-8	Acenaphthylene	22	U
191-24-2	Benzo(g,h,i)perylene	8	U
85-01-8	Phenanthrene	7	U
90-12-0	1-Methylnapthalene	11	U
91-57-6	2-Methylnaphthalene	11	U

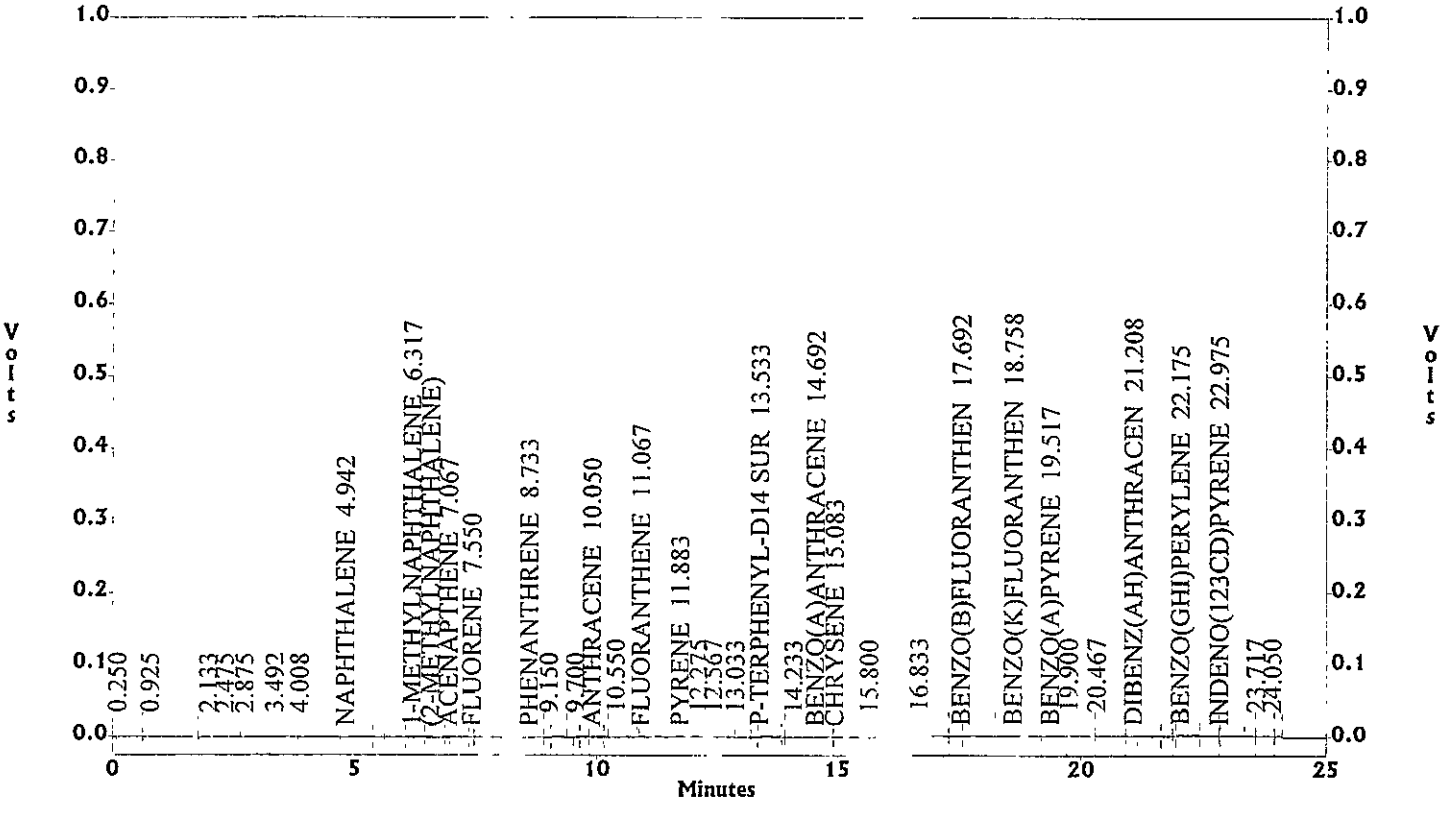
HPLC 1

File : c:\ezchromb\chrom\0104hp3.028
Method : c:\ezchromb\methods\lc1\l3ph1204.met
Sample ID : 183953
Acquired : Jan 04, 2001 20:59:09
Printed : Jan 05, 2001 07:40:44
User : System

c:\ezchromb\chrom\0104hp3.028 -- Channel A



c:\ezchromb\chrom\0104hp3.028 -- Channel B



HPLC 1

File : c:\ezchromb\chrom\0104hp3.028
Method : c:\ezchromb\methods\lc1\13ph1204.met
Sample ID : 183953
Acquired : Jan 04, 2001 20:59:09
Printed : Jan 05, 2001 07:40:44
User : System

Channel A Results

Peak Name	Time	Area	Conc.
NAPHTHALENE	5.02	0	0.00
ACENAPHTYLENE	5.70	0	0.00
1-METHYLNAPHT	6.40	0	0.00
2-METHYLNAPHT	6.90	180	0.11
ACENAPTHENE	7.08	0	0.00
FLUORENE	7.56	238	0.03
PHENANTHRENE	8.65	3086	0.12
ANTHRACENE	9.70	0	0.00
FLUORANTHENE	10.99	9694	1.66
PYRENE	11.74	34	0.01
P-TERPHENYL-D	13.43	913	0.19
BENZO(A)ANTHR	14.38	235	0.02
CHRYSENE	15.12	384	0.03
BENZO(B)FLUOR	17.55	0	0.00
BENZO(K)FLOUR	18.38	429	0.05
BENZO(A)PYREN	19.51	0	0.00
DIBENZ(AH)ANT	21.09	436	0.17
BENZO(GHI)PER	22.05	154	0.05
INDENO(123CD)	22.66	407	0.06

Channel B Results

Name	Time	Area	Conc.
NAPHTHALENE	4.94	19940	0.09
1-METHYLNAPHT	6.32	28096	0.02
2-METHYLNAPHT	6.70	0	0.00
ACENAPTHENE	7.07	20301	0.00
FLUORENE	7.55	9626	0.09
PHENANTHRENE	8.73	10371	0.00
ANTHRACENE	10.05	3889	0.00
FLUORANTHENE	11.07	8764	0.02
PYRENE	11.88	9943	0.00
P-TERPHENYL-D	13.53	42745	0.16
BENZO(A)ANTHR	14.69	10063	0.02
CHRYSENE	15.08	20747	0.02
BENZO(B)FLUOR	17.69	16040	0.00
BENZO(K)FLUOR	18.76	18218	0.00
BENZO(A)PYREN	19.52	6632	0.02
DIBENZ(AH)ANT	21.21	10696	0.00
BENZO(GHI)PER	22.17	30581	0.00
INDENO(123CD)	22.98	4520	0.04

TestAmerica
INCORPORATED

Sample Identification

029-SMW10-Q4-00-07

Matrix: Ground water
pH:
Units: ug/l
Dilution Factor: 1.
Analysis Method: 8310
Delivery Group: 220787
Instrument:
Vol Extracted: ml
Extract Vol: ml

Lab Sample ID: 00-A183954
Date Sampled:: 12/20/00
Date Received: 12/22/00
Analysis Date: 1/ 4/01
Analysis Time: 19:40
Sample QC Group: 5773

Extraction Date:

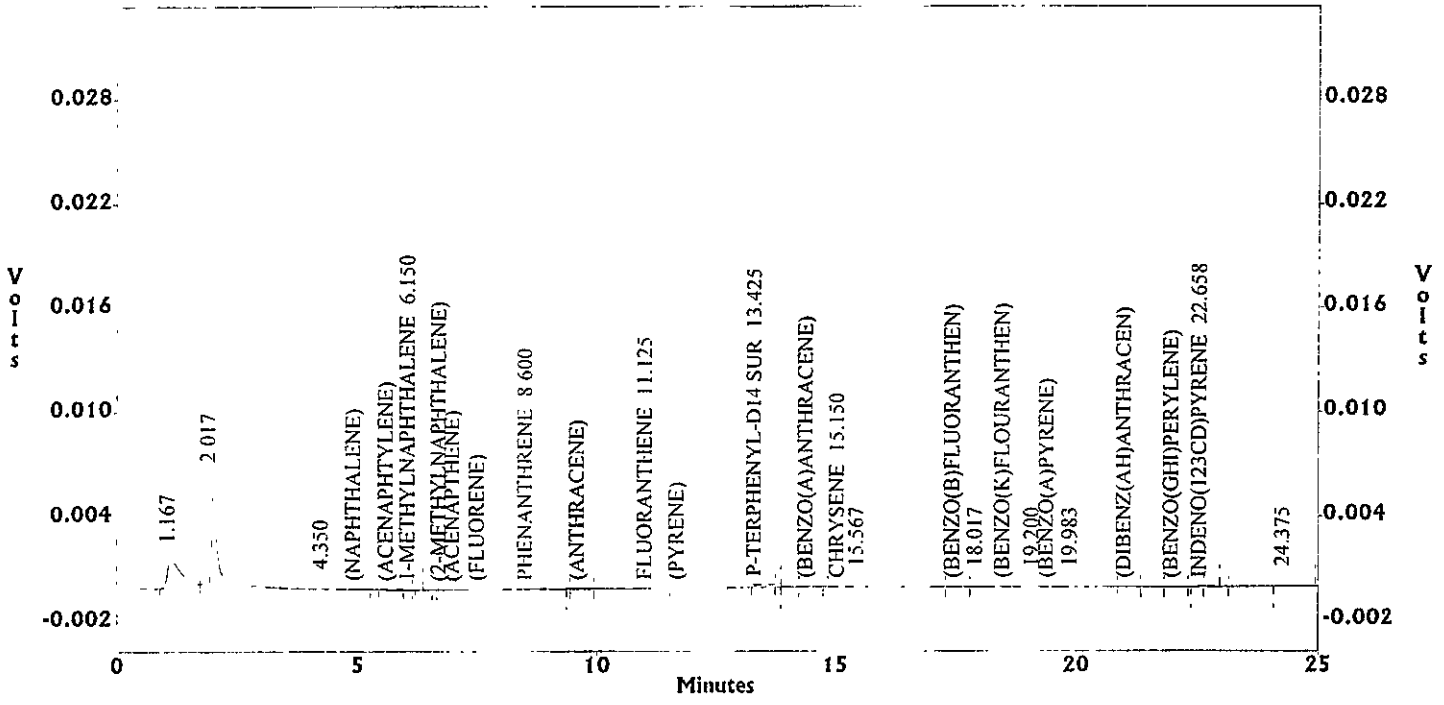
FORM I

CAS NUMBER	ANALYTE	CONCENTRATION	FLAG
91-20-3	Naphthalene	1	U
83-32-9	Acenaphthene	1	U
120-12-7	Anthracene	1	U
206-44-0	Fluoranthene	0	U
7782-41-4	Fluorene	1	U
129-00-0	Pyrene	0	U
56-55-3	Benzo(a)anthracene	0	U
50-32-8	Benzo(a)pyrene	0	U
205-99-2	Benzo(b)fluoranthene	0	U
207-08-9	Benzo(k)fluoranthene	0	U
218-01-9	Chrysene	0	U
53-70-3	Dibenzo(a,h)anthracene	0	U
193-39-5	Indeno(1,2,3-cd)pyrene	0	U
208-96-8	Acenaphthylene	2	U
191-24-2	Benzo(g,h,i)perylene	1	U
85-01-8	Phenanthrene	1	U
90-12-0	1-Methylnapthalene	1	U
91-57-6	2-Methylnaphthalene	1	U

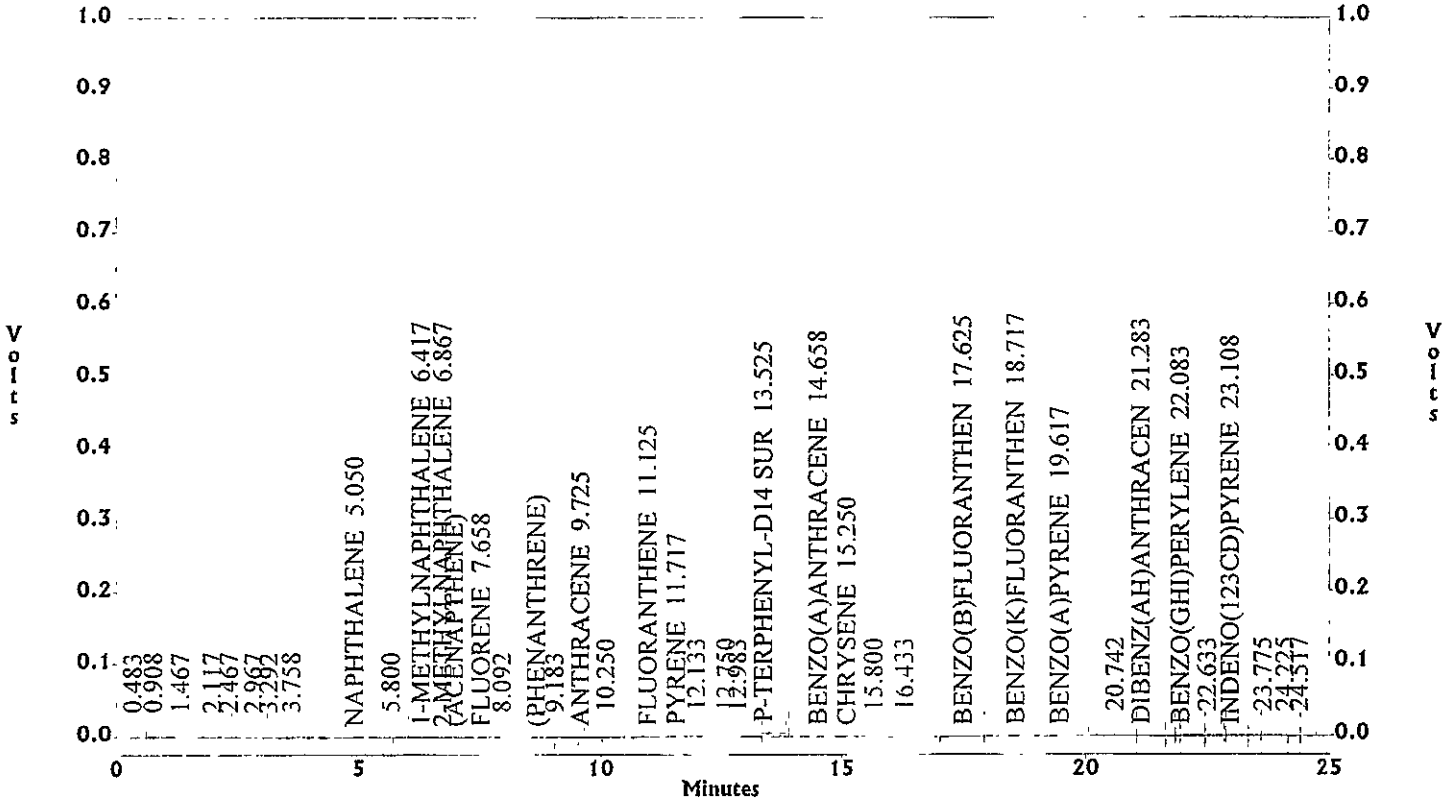
HPLC 1

File : c:\ezchromb\chrom\0104hp3.029
Method : c:\ezchromb\methods\lc1\13ph1204.met
Sample ID : 183954
Acquired : Jan 04, 2001 21:25:25
Printed : Jan 05, 2001 07:40:48
User : System

c:\ezchromb\chrom\0104hp3.029 -- Channel A



c:\ezchromb\chrom\0104hp3.029 -- Channel B



HPLC 1

File : c:\ezchromb\chrom\0104hp3.029
Method : c:\ezchromb\methods\lc1\13ph1204.met
Sample ID : 183954
Acquired : Jan 04, 2001 21:25:25
Printed : Jan 05, 2001 07:40:48
User : System

Channel A Results

Peak Name	Time	Area	Conc.
NAPHTHALENE	5.02	0	0.00
ACENAPHTYLENE	5.70	0	0.00
1-METHYLNAPHT	6.15	19	0.02
2-METHYLNAPHT	6.80	0	0.00
ACENAPTHENE	7.08	0	0.00
FLUORENE	7.60	0	0.00
PHENANTHRENE	8.60	350	0.01
ANTHRACENE	9.70	0	0.00
FLUORANTHENE	11.13	463	0.08
PYRENE	11.80	0	0.00
P-TERPHENYL-D	13.43	2549	0.52
BENZO(A)ANTHR	14.50	0	0.00
CHRYSENE	15.15	1356	0.09
BENZO(B)FLUOR	17.55	0	0.00
BENZO(K)FLOUR	18.59	0	0.00
BENZO(A)PYREN	19.51	0	0.00
DIBENZ(AH)ANT	21.10	0	0.00
BENZO(GHI)PER	22.08	0	0.00
INDENO(123CD)	22.66	206	0.05

Channel B Results

Name	Time	Area	Conc.
NAPHTHALENE	5.05	21733	0.10
1-METHYLNAPHT	6.42	7170	0.00
2-METHYLNAPHT	6.87	6313	0.00
ACENAPTHENE	7.10	0	0.00
FLUORENE	7.66	16711	0.11
PHENANTHRENE	8.80	0	0.00
ANTHRACENE	9.73	11360	0.03
FLUORANTHENE	11.13	18177	0.08
PYRENE	11.72	21099	0.02
P-TERPHENYL-D	13.52	83181	0.37
BENZO(A)ANTHR	14.66	25735	0.03
CHRYSENE	15.25	19816	0.02
BENZO(B)FLUOR	17.63	15508	0.00
BENZO(K)FLUOR	18.72	25125	0.00
BENZO(A)PYREN	19.62	6561	0.02
DIBENZ(AH)ANT	21.28	6825	0.00
BENZO(GHI)PER	22.08	3366	0.00
INDENO(123CD)	23.11	6056	0.05

TestAmerica
INCORPORATED

Sample Identification

029-SMW11-Q4-00-07

Matrix: Ground water
pH:
Units: ug/l
Dilution Factor: 1.
Analysis Method: 8310
Delivery Group: 220787
Instrument:
Vol Extracted: ml
Extract Vol: ml

Lab Sample ID: 00-A183955
Date Sampled:: 12/20/00
Date Received: 12/22/00
Analysis Date: 1/ 4/01
Analysis Time: 19:40
Sample QC Group: 5773

Extraction Date:

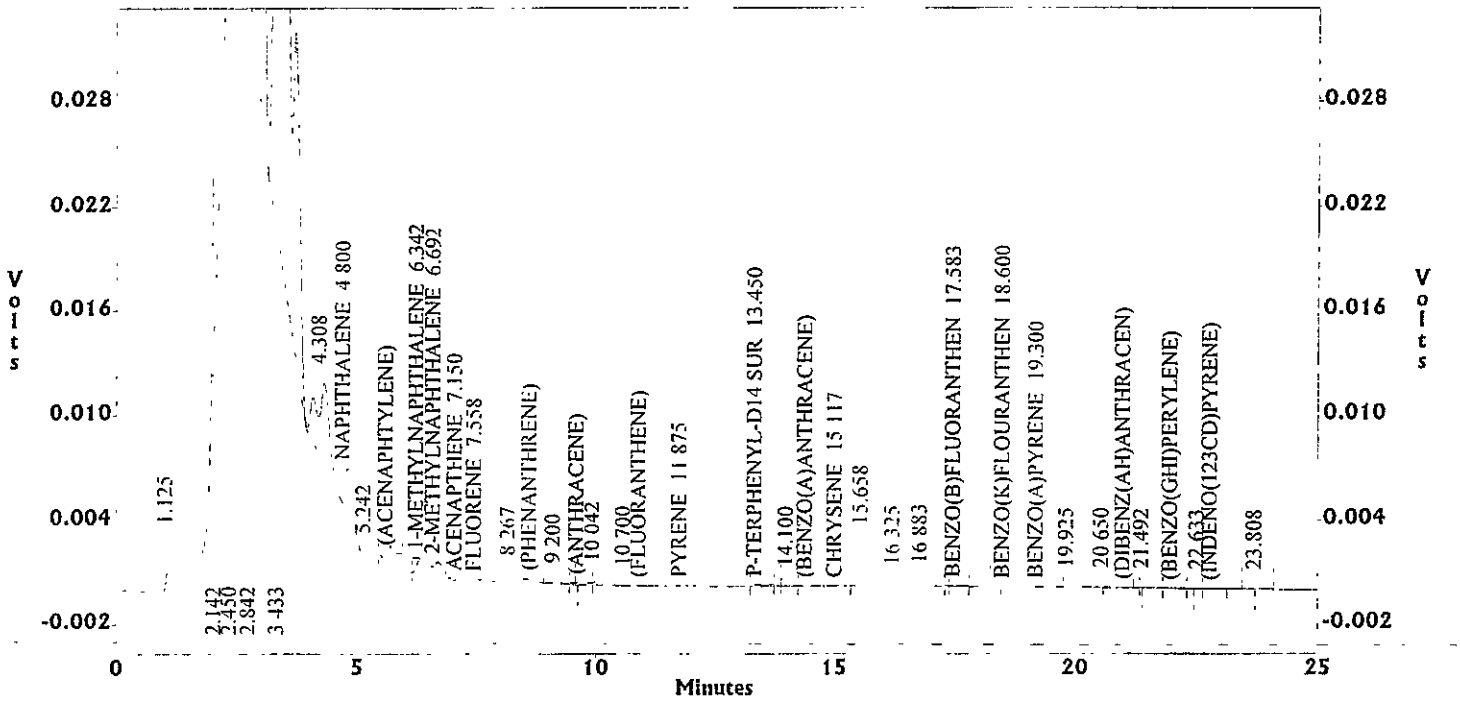
FORM I

CAS NUMBER	ANALYTE	CONCENTRATION	FLAG
91-20-3	Naphthalene	11	
83-32-9	Acenaphthene	1	U
120-12-7	Anthracene	1	U
206-44-0	Fluoranthene	0	U
7782-41-4	Fluorene	1	U
129-00-0	Pyrene	0	U
56-55-3	Benzo(a)anthracene	0	U
50-32-8	Benzo(a)pyrene	0	U
205-99-2	Benzo(b)fluoranthene	0	U
207-08-9	Benzo(k)fluoranthene	0	U
218-01-9	Chrysene	0	U
53-70-3	Dibenzo(a,h)anthracene	0	U
193-39-5	Indeno(1,2,3-cd)pyrene	0	U
208-96-8	Acenaphthylene	2	U
191-24-2	Benzo(g,h,i)perylene	1	U
85-01-8	Phenanthrene	1	U
90-12-0	1-Methylnapthalene	6	
91-57-6	2-Methylnaphthalene	5	

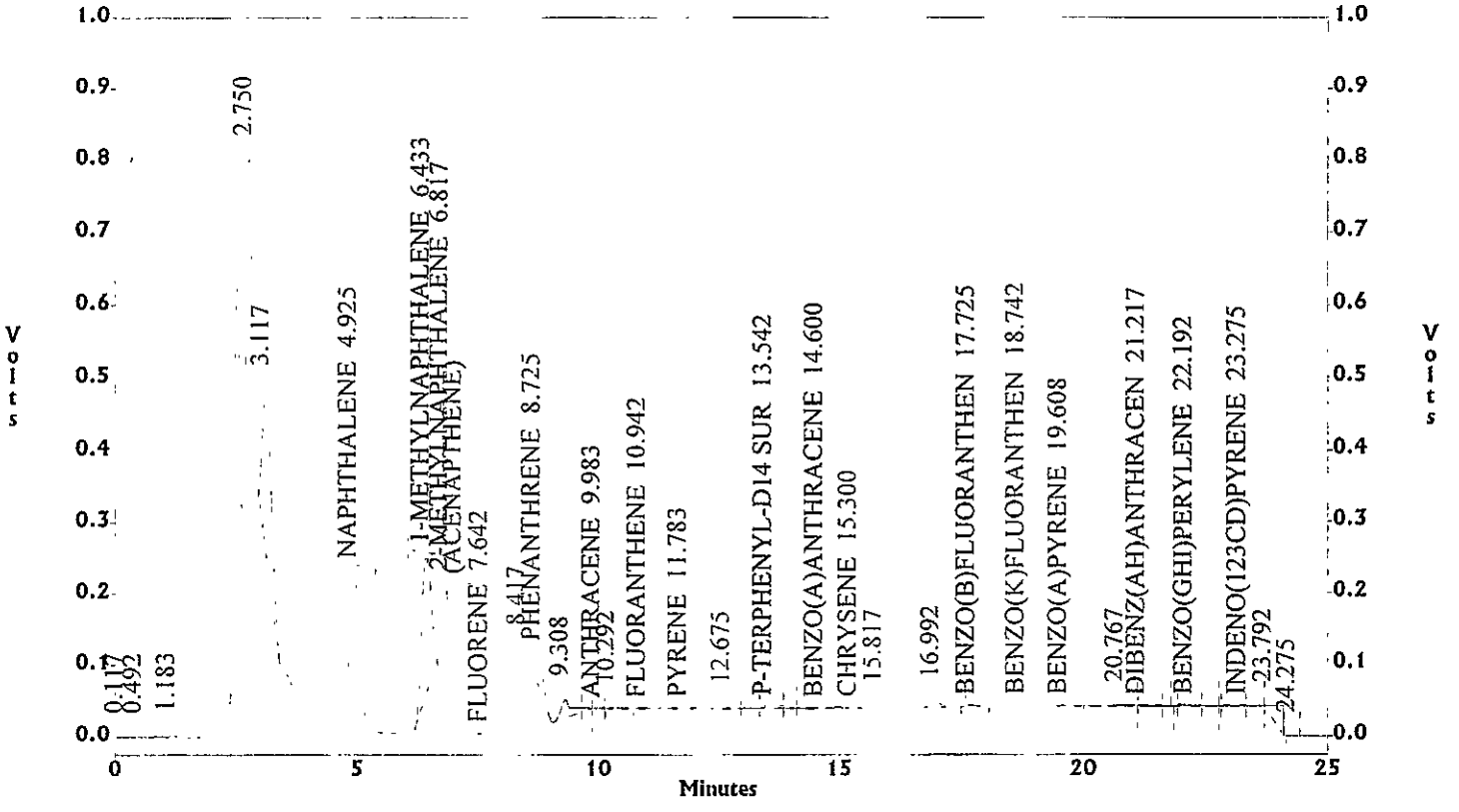
HPLC 1

File : c:\ezchromb\chrom\0104hp3.030
Method : c:\ezchromb\methods\lc1\l3ph1204.met
Sample ID : 183955
Acquired : Jan 04, 2001 21:51:40
Printed : Jan 05, 2001 07:40:50
User : System

c:\ezchromb\chrom\0104hp3.030 -- Channel A



c:\ezchromb\chrom\0104hp3.030 -- Channel B



HPLC 1

File : c:\ezchromb\chrom\0104hp3.030
Method : c:\ezchromb\methods\lc1\13ph1204.met
Sample ID : 183955
Acquired : Jan 04, 2001 21:51:40
Printed : Jan 05, 2001 07:40:51
User : System

Channel A Results

Peak Name	Time	Area	Conc.
NAPHTHALENE	4.80	29578	15.21
ACENAPHTYLENE	5.70	0	0.00
1-METHYLNAPHT	6.34	8195	8.01
2-METHYLNAPHT	6.69	5649	3.48
ACENAPTHENE	7.15	1156	2.09
FLUORENE	7.56	1320	0.16
PHENANTHRENE	8.70	0	0.00
ANTHRACENE	9.70	0	0.00
FLUORANTHENE	11.02	0	0.00
PYRENE	11.88	1208	0.24
P-TERPHENYL-D	13.45	1841	0.37
BENZO(A)ANTHR	14.50	0	0.00
CHRYSENE	15.12	265	0.02
BENZO(B)FLUOR	17.58	1092	0.07
BENZO(K)FLOUR	18.60	184	0.03
BENZO(A)PYREN	19.30	216	0.05
DIBENZ(AH)ANT	21.10	0	0.00
BENZO(GHI)PER	22.08	0	0.00
INDENO(123CD)	22.90	0	0.00

Channel B Results

Name	Time	Area	Conc.
NAPHTHALENE	4.93	3177577	11.09
1-METHYLNAPHT	6.43	2542933	6.17
2-METHYLNAPHT	6.82	2017101	4.76
ACENAPTHENE	7.10	0	0.00
FLUORENE	7.64	13955	0.10
PHENANTHRENE	8.73	623006	3.07
ANTHRACENE	9.98	3098	0.00
FLUORANTHENE	10.94	9715	0.02
PYRENE	11.78	43326	0.07
P-TERPHENYL-D	13.54	67441	0.29
BENZO(A)ANTHR	14.60	11941	0.03
CHRYSENE	15.30	26780	0.02
BENZO(B)FLUOR	17.73	21693	0.00
BENZO(K)FLUOR	18.74	27547	0.00
BENZO(A)PYREN	19.61	16819	0.02
DIBENZ(AH)ANT	21.22	3519	0.00
BENZO(GHI)PER	22.19	17724	0.00
INDENO(123CD)	23.27	8401	0.07

TestAmerica
INCORPORATED

Sample Identification

029-DUP-Q4-00-07

Matrix: Ground water
pH:
Units: ug/l
Dilution Factor: 1.
Analysis Method: 8310
Delivery Group: 220787
Instrument:
Vol Extracted: ml
Extract Vol: ml

Lab Sample ID: 00-A183956
Date Sampled:: 12/20/00
Date Received: 12/22/00
Analysis Date: 1/ 4/01
Analysis Time: 19:40
Sample QC Group: 5773

Extraction Date:

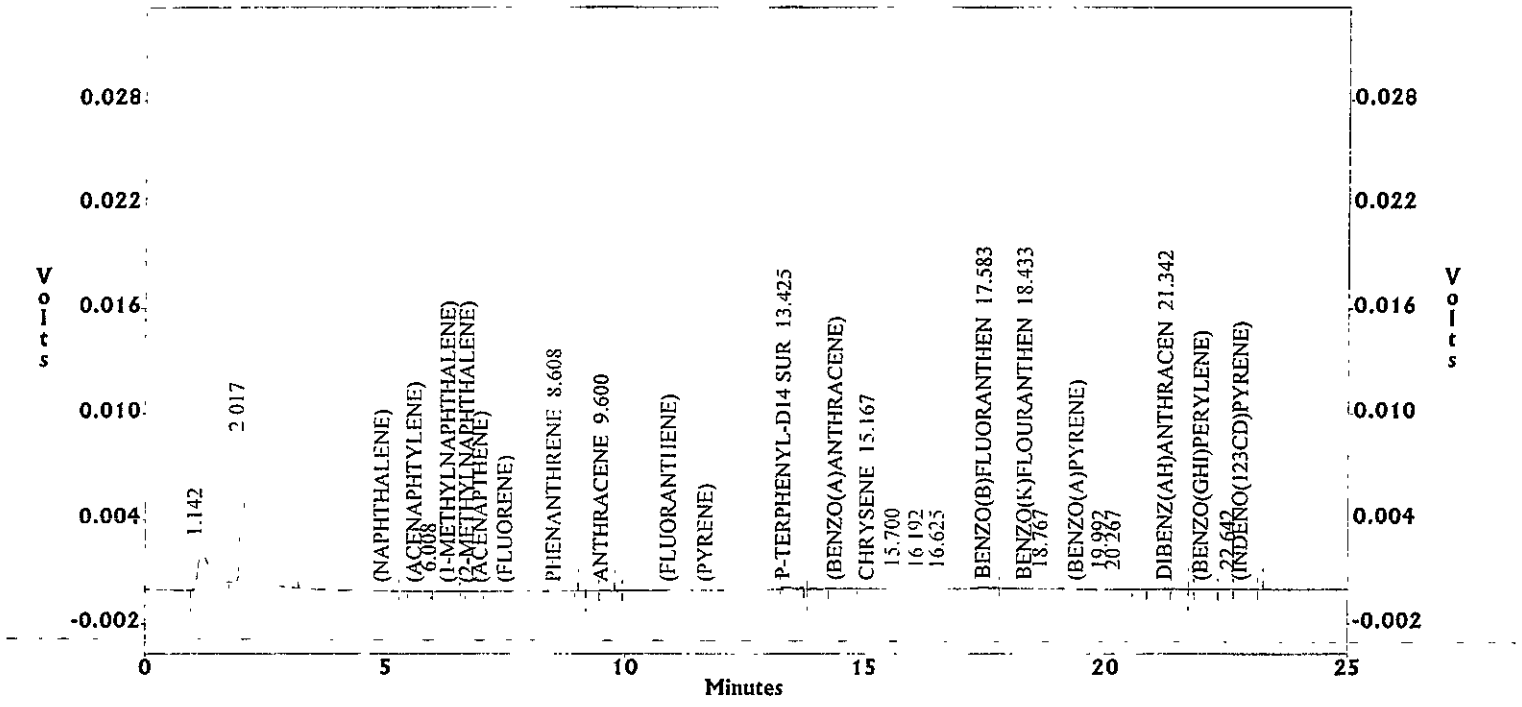
FORM I

CAS NUMBER	ANALYTE	CONCENTRATION	FLAG
91-20-3	Naphthalene	1	U
83-32-9	Acenaphthene	1	U
120-12-7	Anthracene	1	U
206-44-0	Fluoranthene	0	U
7782-41-4	Fluorene	1	U
129-00-0	Pyrene	0	U
56-55-3	Benzo(a)anthracene	0	U
50-32-8	Benzo(a)pyrene	0	U
205-99-2	Benzo(b)fluoranthene	0	U
207-08-9	Benzo(k)fluoranthene	0	U
218-01-9	Chrysene	0	U
53-70-3	Dibenzo(a,h)anthracene	0	U
193-39-5	Indeno(1,2,3-cd)pyrene	0	U
208-96-8	Acenaphthylene	2	U
191-24-2	Benzo(g,h,i)perylene	1	U
85-01-8	Phenanthrene	1	U
90-12-0	1-Methylnapthalene	1	U
91-57-6	2-Methylnaphthalene	1	U

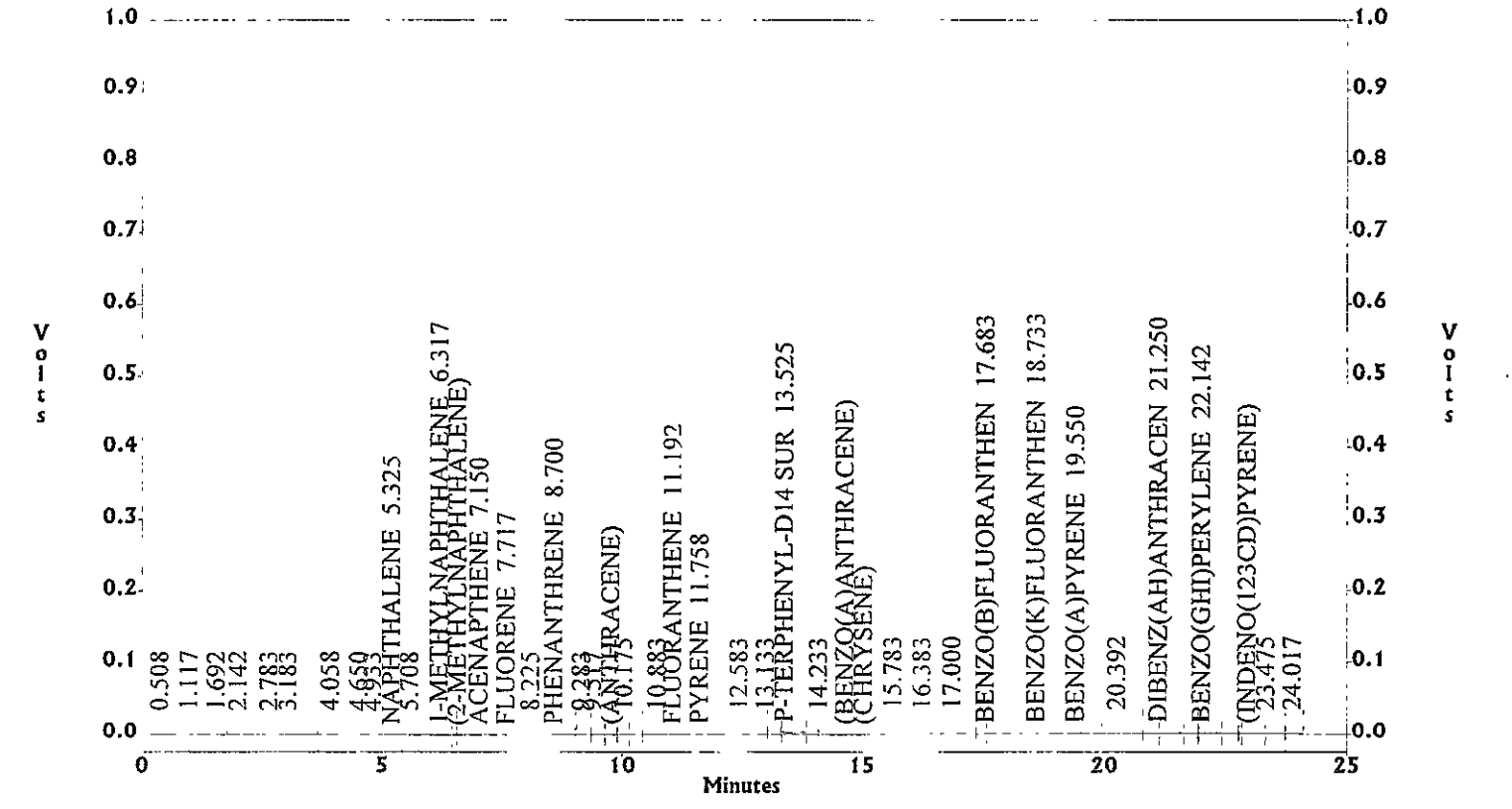
HPLC 1

File : c:\ezchromb\chrom\0104hp3.032
Method : c:\ezchromb\methods\lc1\13phi204.met
Sample ID : 183956
Acquired : Jan 04, 2001 22:44:09
Printed : Jan 05, 2001 07:40:56
User : System

c:\ezchromb\chrom\0104hp3.032 -- Channel A



c:\ezchromb\chrom\0104hp3.032 -- Channel B



HPLC 1

File : c:\ezchromb\chrom\0104hp3.032
Method : c:\ezchromb\methods\lcl\l3phl204.met
Sample ID : 183956
Acquired : Jan 04, 2001 22:44:09
Printed : Jan 05, 2001 07:40:56
User : System

Channel A Results

Peak Name	Time	Area	Conc.
NAPHTHALENE	5.02	0	0.00
ACENAPHTYLENE	5.70	0	0.00
1-METHYLNAPHT	6.40	0	0.00
2-METHYLNAPHT	6.80	0	0.00
ACENAPTHENE	7.08	0	0.00
FLUORENE	7.60	0	0.00
PHENANTHRENE	8.61	516	0.02
ANTHRACENE	9.60	197	0.00
FLUORANTHENE	11.02	0	0.00
PYRENE	11.80	0	0.00
P-TERPHENYL-D	13.43	1923	0.39
BENZO(A)ANTHR	14.50	0	0.00
CHRYSENE	15.17	1010	0.07
BENZO(B)FLUOR	17.58	2642	0.18
BENZO(K)FLOUR	18.43	91	0.03
BENZO(A)PYREN	19.51	0	0.00
DIBENZ(AH)ANT	21.34	846	0.33
BENZO(GHI)PER	22.08	0	0.00
INDENO(123CD)	22.90	0	0.00

Channel B Results

Name	Time	Area	Conc.
NAPHTHALENE	5.32	4002	0.03
1-METHYLNAPHT	6.32	3328	0.00
2-METHYLNAPHT	6.70	0	0.00
ACENAPTHENE	7.15	17748	0.00
FLUORENE	7.72	4632	0.07
PHENANTHRENE	8.70	5847	0.00
ANTHRACENE	9.90	0	0.00
FLUORANTHENE	11.19	4912	0.00
PYRENE	11.76	28646	0.04
P-TERPHENYL-D	13.52	60335	0.26
BENZO(A)ANTHR	14.78	0	0.00
CHRYSENE	15.17	0	0.00
BENZO(B)FLUOR	17.68	7732	0.00
BENZO(K)FLUOR	18.73	17431	0.00
BENZO(A)PYREN	19.55	8762	0.02
DIBENZ(AH)ANT	21.25	11664	0.00
BENZO(GHI)PER	22.14	10193	0.00
INDENO(123CD)	23.09	0	0.00

TestAmerica
INCORPORATED

Sample Identification

029-EQB-Q4-00-07

Matrix: Ground water
pH:
Units: ug/l
Dilution Factor: 1.
Analysis Method: 8310
Delivery Group: 220787
Instrument:
Vol Extracted: ml
Extract Vol: ml

Lab Sample ID: 00-A183957
Date Sampled:: 12/20/00
Date Received: 12/22/00
Analysis Date: 1/ 4/01
Analysis Time: 19:40
Sample QC Group: 5773

Extraction Date:

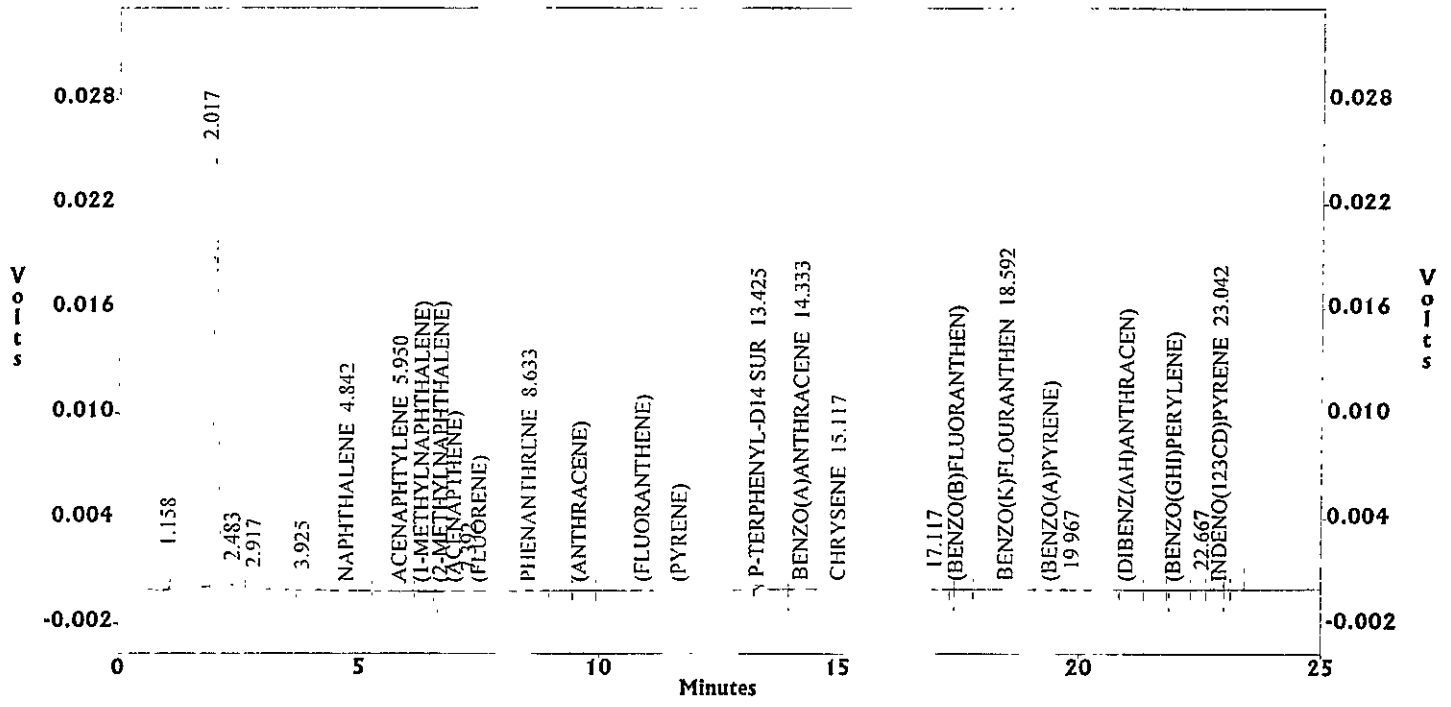
FORM I

CAS NUMBER	ANALYTE	CONCENTRATION	FLAG
91-20-3	Naphthalene	1	U
83-32-9	Acenaphthene	1	U
120-12-7	Anthracene	1	U
206-44-0	Fluoranthene	0	U
7782-41-4	Fluorene	1	U
129-00-0	Pyrene	0	U
56-55-3	Benzo(a)anthracene	0	U
50-32-8	Benzo(a)pyrene	0	U
205-99-2	Benzo(b)fluoranthene	0	U
207-08-9	Benzo(k)fluoranthene	0	U
218-01-9	Chrysene	0	U
53-70-3	Dibenzo(a,h)anthracene	0	U
193-39-5	Indeno(1,2,3-cd)pyrene	0	U
208-96-8	Acenaphthylene	2	U
191-24-2	Benzo(g,h,i)perylene	1	U
85-01-8	Phenanthrene	1	U
90-12-0	1-Methylnapthalene	1	U
91-57-6	2-Methylnaphthalene	1	U

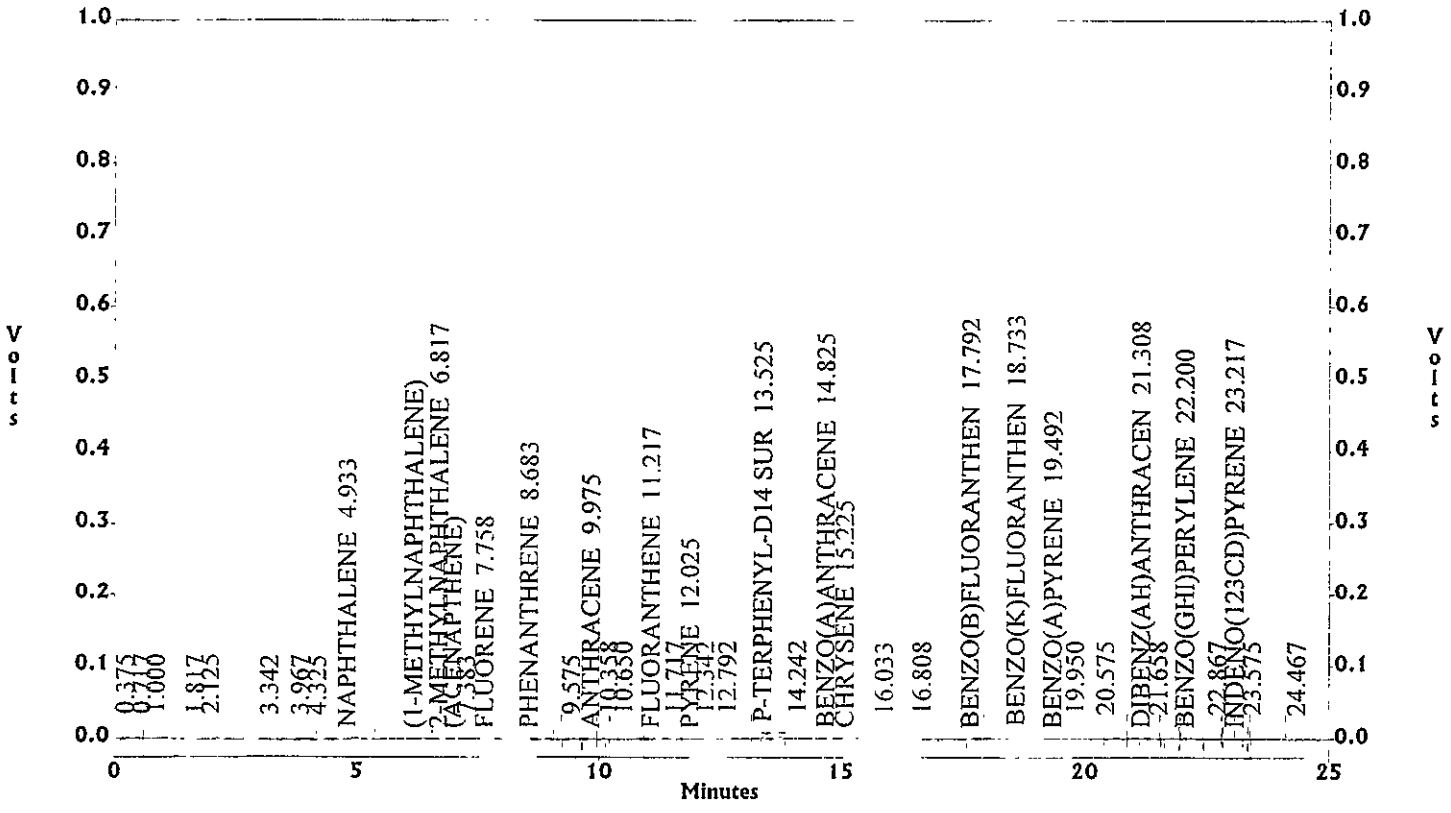
HPLC 1

File : c:\ezchromb\chrom\0104hp3.033
Method : c:\ezchromb\methods\lc1\l3ph1204.met
Sample ID : 183957
Acquired : Jan 04, 2001 23:10:23
Printed : Jan 05, 2001 07:40:59
User : System

c:\ezchromb\chrom\0104hp3.033 -- Channel A



c:\ezchromb\chrom\0104hp3.033 -- Channel B



HPLC 1

File : c:\ezchromb\chrom\0104hp3.033
Method : c:\ezchromb\methods\lc1\13ph1204.met
Sample ID : 183957
Acquired : Jan 04, 2001 23:10:23
Printed : Jan 05, 2001 07:41:00
User : System

Channel A Results

Peak Name	Time	Area	Conc.
NAPHTHALENE	4.84	299	0.15
ACENAPHTYLENE	5.95	106	0.08
1-METHYLNAPHT	6.40	0	0.00
2-METHYLNAPHT	6.80	0	0.00
ACENAPTHENE	7.08	0	0.00
FLUORENE	7.60	0	0.00
PHENANTHRENE	8.63	387	0.02
ANTHRACENE	9.70	0	0.00
FLUORANTHENE	11.02	0	0.00
PYRENE	11.80	0	0.00
P-TERPHENYL-D	13.43	3704	0.75
BENZO(A)ANTHR	14.33	392	0.03
CHRYSENE	15.12	1012	0.07
BENZO(B)FLUOR	17.55	0	0.00
BENZO(K)FLOUR	18.59	2895	0.25
BENZO(A)PYREN	19.51	0	0.00
DIBENZ(AH)ANT	21.10	0	0.00
BENZO(GHI)PER	22.08	0	0.00
INDENO(123CD)	23.04	31	0.04

Channel B Results

Name	Time	Area	Conc.
NAPHTHALENE	4.93	32432	0.13
1-METHYLNAPHT	6.30	0	0.00
2-METHYLNAPHT	6.82	47895	0.00
ACENAPTHENE	7.10	0	0.00
FLUORENE	7.76	6851	0.08
PHENANTHRENE	8.68	19858	0.01
ANTHRACENE	9.98	2803	0.00
FLUORANTHENE	11.22	11835	0.04
PYRENE	12.02	2981	0.00
P-TERPHENYL-D	13.52	132711	0.63
BENZO(A)ANTHR	14.82	13282	0.03
CHRYSENE	15.23	25343	0.02
BENZO(B)FLUOR	17.79	17103	0.00
BENZO(K)FLUOR	18.73	58425	0.00
BENZO(A)PYREN	19.49	5241	0.02
DIBENZ(AH)ANT	21.31	7507	0.00
BENZO(GHI)PER	22.20	7777	0.00
INDENO(123CD)	23.22	357	0.01

6C

8310 PAH INITIAL CALIBRATION

Lab Name : Test America **Insturment ID:** HPLC 3

SDG # 220787 **Calibration Date :** 12/04/00

UV CHANNEL

.05 initial cal	RF=1	1204hp3.001	.5 1,2m-naph	RF=4	1227hp3.002
.1 initial cal	RF=2	1204hp3.002	1.0 1,2m-naph	RF=5	1227hp3.003
.25 initial cal	RF=3	1204hp3.003	2.5 1,2m-naph	RF=6	1227hp3.004
.5 initial cal	RF=4	1204hp3.004	5.0 1,2m-naph	RF=7	1227hp3.005
1.0 initial cal	RF=5	1204hp3.005	10.0 1,2m-naph	RF=8	1227hp3.006
2.5 initial cal	RF=6	1204hp3.006	20.0 1,2m-naph	RF=9	1227hp3.007
5.0 initial cal	RF=7	1204hp3.007			
10.0 initial cal	RF=8	1204hp3.008			
20 initial cal	RF=9	1204hp3.009			

COMPOUND	RF 1	RF 2	RF 3	RF 4	RF 5	RF 6	RF 7	RF 8	RF 9	RF %	Average RF
	0.05	0.1	0 25	0.5	1	2.5	5	10	20	RSD	
Napthalene		2400	1756	1848	1790	1906	1762	1759	1844	11.5	1883
Acenapthylene		1320	1392	1334	1302	1386	1284	1270	1336	9.1	1328
1-Methyl-naphthalene				1106	996	942	1099	1017	976	6.5	1023
2-Methyl-naphthalene				1700	1618	1497	1747	1617	1557	5.6	1623
Acenapthene		440	416	714	526	547	508	506	531	21.6	524
Flourene		7990	7488	7974	7528	8112	7499	7490	7906	11.2	7748
Phenanthrene	29000	25650	24700	25128	24767	26660	24639	24609	25936	5.6	25677
Anthracene	69220	58340	57744	59542	59411	64220	59164	58575		6.5	60777
Flouranthene	6540	5340	5832	5626	5673	6167	5695	5708	6038	6.0	5847
Pyrene	6680	5880	4904	4712	4633	4981	4598	4611	4879	13.9	5098
Benzo(a)anthracene	13740	11990	11748	12072	12004	13010	12090	12138	12862	6.3	12406
Chrysene	16980	13710	13476	13854	13743	14697	13597	13626	14402	9.2	14232
Benzo(b)flouranthen	19340	14540	13296	13644	13639	14682				15.2	14857
Benzo(k)flouranthen	17700	12990	11292	11878	11858	12796				17.9	13086
Benzo(a)pyrene	14100	11700	11148	11840	12134	13114				8.7	12339
Dibenz(ah)anthrace	2080	2670	1952	3270	2673	2586				18.7	2539
Benzo(ghi)Perylene	5000	5150	4824	4962	5015	5249				3.0	5033
Indeno(123cd)pyren	18180	14230	14064	14548	14584	16174				10.5	15297

AVERAGE RF	11184
AVERAGE RF % RSD	10.4

6C

8310 PAH INITIAL CALIBRATION

Lab Name : Test America **Insturment ID:** HPLC 3

SDG # 220787 **Calibration Date** 12/04/00

FLOURECENSE CHANNEL

.05 initial cal	RF=1	1204hp3.001	.5 1,2m-naph	RF=4	1227hp3.002
.1 initial cal	RF=2	1204hp3.002	1.0 1,2m-naph	RF=5	1227hp3.003
.25 initial cal	RF=3	1204hp3.003	2.5 1,2m-naph	RF=6	1227hp3.004
.5 initial cal	RF=4	1204hp3.004	5.0 1,2m-naph	RF=7	1227hp3.005
1.0 initial cal	RF=5	1204hp3.005	10.0 1,2m-naph	RF=8	1227hp3.006
2.5 initial cal	RF=6	1204hp3.006	20.0 1,2m-naph	RF=9	1227hp3.007
5.0 initial cal	RF=7	1204hp3.007			
10.0 initial cal	RF=8	1204hp3.008			
20 initial cal	RF=9	1204hp3.009			

COMPOUND	RF 1	RF 2	RF 3	RF 4	RF 5	RF 6	RF 7	RF 8	RF 9	RF %	Average RF
	0.05	0.1	0 25	0.5	1	2.5	5	10	20	RSD	
Napthalene		246640	295500	304796	269027	296088	273446	275399	289994	6.7	281361
1-Methyl-naphthalene				440252	424251	393663	455372	419699	404731	5.3	422995
2-Methyl-naphthalene				447678	428576	397444	459263	427611	411922	5.3	428749
Acenapthene		782290	796324	835070	827524	903621	837321			4.6	830358
Flourene		311390	305248	313726	312761	337461	312906	311653	329018	3.4	316770
Phenanthrene	351680	327190	264580	237040	207898	218697	198175	198447		23.7	250463
Anthracene	153120	121090	156160	158684	133658	143609	135378	133251		9.4	141869
Flouranthene	123420	153620	133624	164954	144637	150128	141670	139034		8.8	143886
Pyrene	713200	439360	494284	554546	536981	583564	542959			15.4	552128
Benzo(a)anthrac	2007000	1531810	1528336	2E+06	2E+06	1716440				11.2	1655306
Chrysene	3354000	2603320	2327560	2E+06	2E+06	2570864				14.7	2604772
Benzo(b)flourant	1062940	931740	933764	1E+06	965971	1040020	960290	961708		4.9	982325
Benzo(k)flouranth	7334300	6215850	6256048	6E+06	6E+06	5902146				7.5	6443572
Benzo(a)pyrene	2803780	2275920	2317712	2E+06	2E+06	2597777				8.0	2469786
Dibenz(ah)anthra	961300	770490	852488	794548	801235	861730	800964			7.4	834679
Benzo(ghi)Peryle	1123220	991980	965184	1E+06	1E+06	1076459	998031	998195		5.1	1021461
Indeno(123cd)pyr	157600	111860	156396	164500	148429	141044				11.3	146638

AVERAGE RF	1148654
AVERAGE RF % RSD	9.0

8310 PAH CALCULATION SHEET

Lab Name : Test America **Insturment ID:** HPLC 3

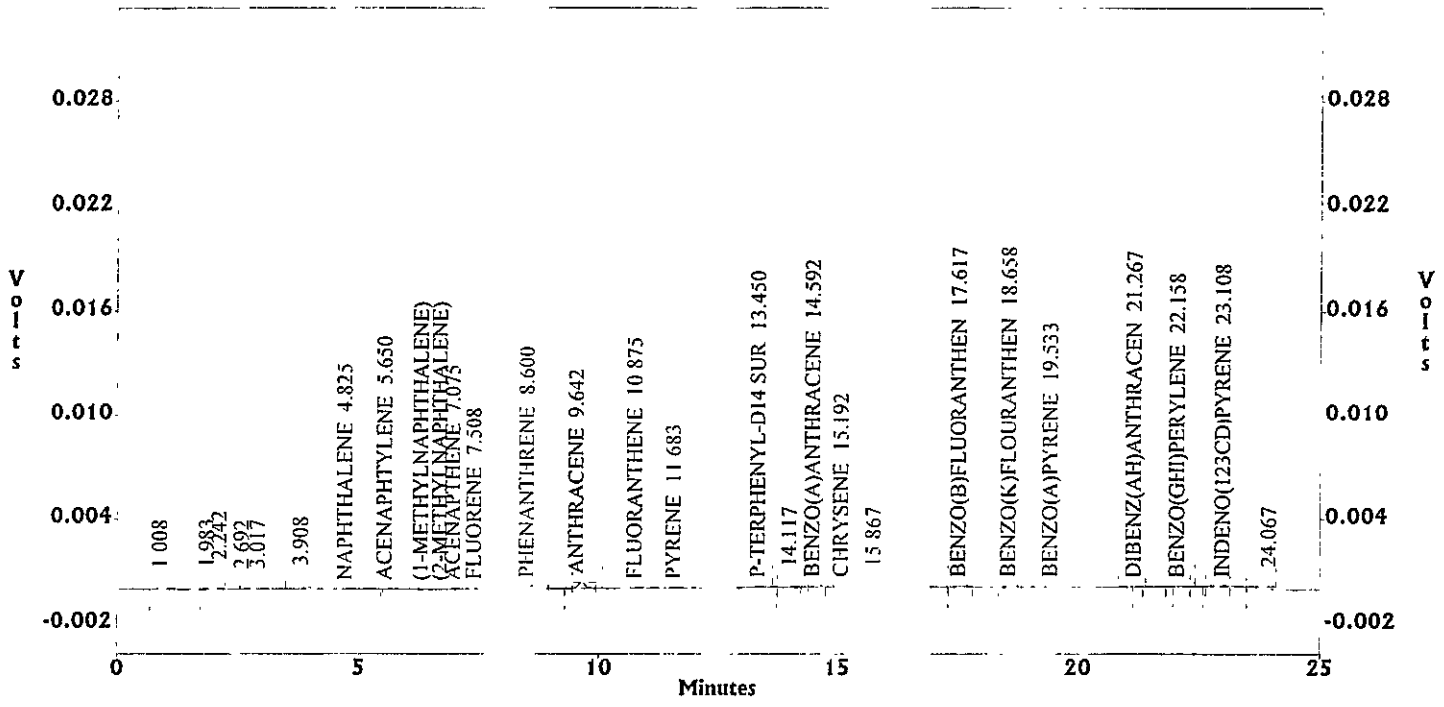
SDG # 220787 **Calibration Date :** 12/04/00

UV CHANNEL			R^2
Napthalene	Linear Fit :	Amount = 0.000524231 X Area - 0.153250	0.998
Acenapthylene	Linear Fit :	Amount = 0.000767821 X Area - 0.13684	0.998
1-Methyl-naphthalene	Linear Fit :	Amount = 0.000858905 X Area - 0.0266422	0.998
2-Methyl-naphthalene	Linear Fit :	Amount = 0.000624963 X Area - 0.00261427	0.998
Acenapthene	Linear Fit :	Amount = 0.00155944 X Area - 0.114265	0.998
Flourene	Linear Fit :	Amount = 0.000123694 X Area - 0.0933907	0.998
Phenanthrene	Linear Fit :	Amount = 3.95486e-005 X Area - 0.110489	0.998
Anthracene	Linear Fit :	Amount = 1.70264e-005 X Area - 0.113166	0.998
Flouranthene	Linear Fit :	Amount = 0.000168515 X Area - 0.0993025	0.998
Pyrene	Linear Fit :	Amount = 0.000209438 X Area - 0.112482	0.998
P-Terphenyl-d14 (Surr)	Linear Fit :	Amount = 0.000181481 X Area - 0.00955066	0.998
Benzo(a)anthracene	Linear Fit :	Amount = 7.04928e-005 X Area + 0.0134226	0.998
Chrysene	Linear Fit :	Amount = 5.16555e-005 X Area + 0.00992993	0.998
Benzo(b)flouranthene	Linear Fit :	Amount = 6.13782e-005 X Area + .0189121	0.998
Benzo(k)flouranthene	Linear Fit :	Amount = 7.13164e-005 X Area + 0.0190715	0.998
Benzo(a)pyrene	Linear Fit :	Amount = 7.02936e-005 X Area +.0621985	0.998
Dibenz(ah)anthracene	Linear Fit :	Amount = 0.000365789 X Area + 0.0552831	0.998
Benzo(ghi)Perylene	Linear Fit :	Amount = 0.000171476 X Area + 0.0270747	0.998
Indeno(123cd)pyrene	Linear Fit :	Amount = 5.69335e-005 X Area + 0.0216094	0.998
FLOURECENSE CHANNEL			
Napthalene	Linear Fit :	Amount = 3.48239e-006 X Area + 0.0234356	0.998
1-Methyl-naphthalene	Linear Fit :	Amount = 2.44753e-006 X Area - 0.0529005	0.998
2-Methyl-naphthalene	Linear Fit :	Amount = 2.41673e-006 X Area - 0.114008	0.998
Acenapthene	Linear Fit :	Amount = 1.194e-007 X Area - 0.02234	0.998
Flourene	Linear Fit :	Amount = 3.06204e-006 X Area + 0.0564941	0.998
Phenanthrene	Linear Fit :	Amount = 5.07568e-006 X Area - 0.091102	0.998
Anthracene	Linear Fit :	Amount = 7.50675E-006 X Area - 0.0524428	0.998
Flouranthene	Linear Fit :	Amount = 7.18226e-006X Area - 0.0466993	0.998
Pyrene	Linear Fit :	Amount = 1.82186e-006 X Area - 0.0137142	0.998
Benzo(a)anthracene	Linear Fit :	Amount = 5.84321e-007 X Area + 0.0183546	0.998
Chrysene	Linear Fit :	Amount = 3.90965e-007 X Area + 0.0115626	0.998
Benzo(b)flouranthene	Linear Fit :	Amount = 1.03971e-007 X Area -0.0261989	0.998
Benzo(k)flouranthene	Linear Fit :	Amount = 1.68837e-007 X Area - 0.0244812	0.998
Benzo(a)pyrene	Linear Fit :	Amount = 3.85577e-007 X Area + 0.0184005	0.998
Dibenz(ah)anthracene	Linear Fit :	Amount = 1.25397e-007 X Area - 0.0305031	0.998
Benzo(ghi)Perylene	Linear Fit :	Amount = 1.00154e-006 X Area - 0.0256369	0.998
Indeno(123cd)pyrene	Linear Fit :	Amount = 6.59776e-006 X Area + 0.0108279	0.998

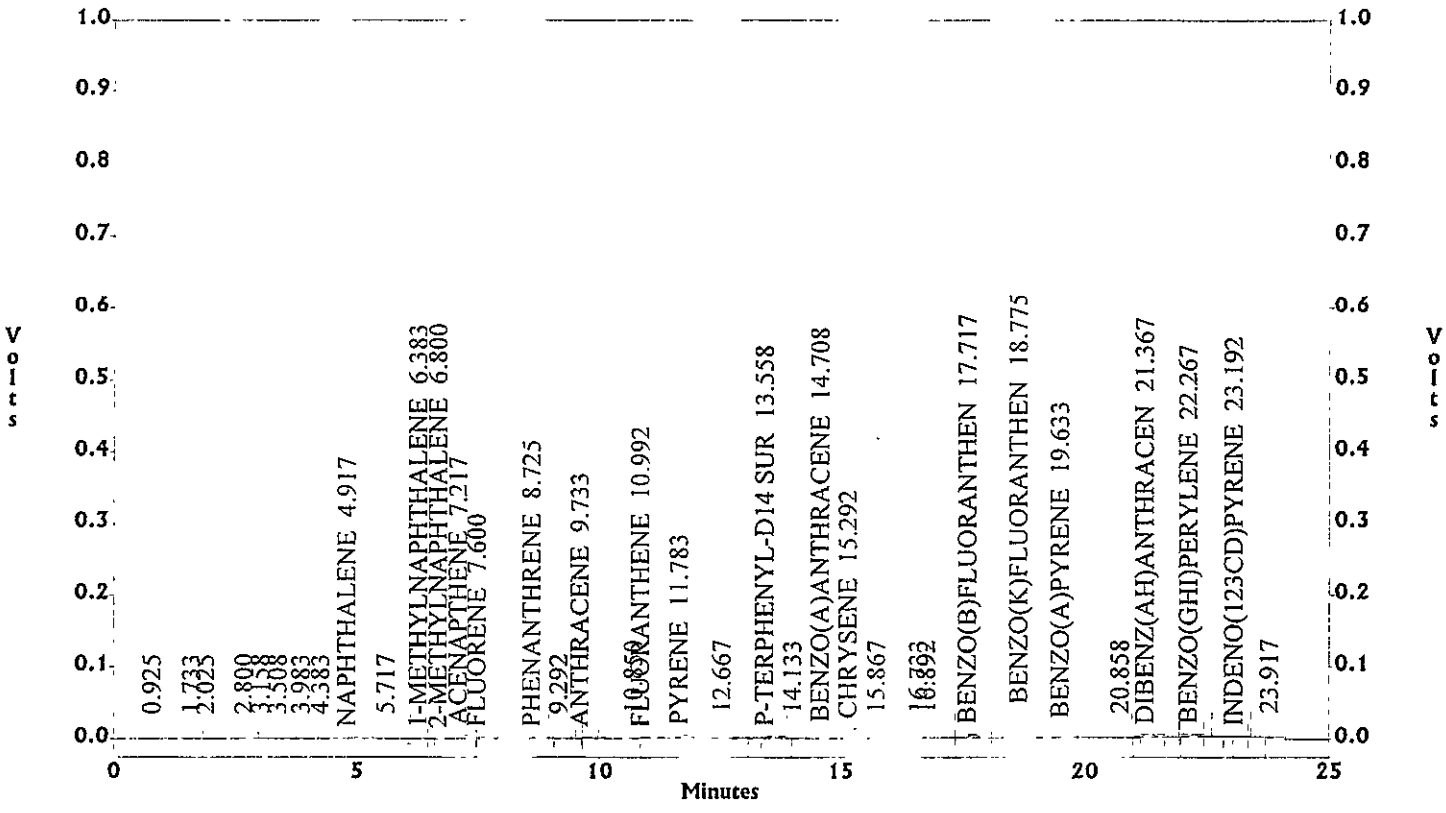
HPLC 1

File : c:\ezchromb\chrom\1204hp3.001
Method : c:\ezchromb\methods\lc1\l3ph1204.met
Sample ID : .05 initial cal
Acquired : Dec 04, 2000 05:51:42
Printed : Jan 05, 2001 14:09:49
User : System

c:\ezchromb\chrom\1204hp3.001 -- Channel A



c:\ezchromb\chrom\1204hp3.001 -- Channel B



HPLC 1

File : c:\ezchromb\chrom\1204hp3.001
Method : c:\ezchromb\methods\lc1\13ph1204.met
Sample ID : .05 initial cal
Acquired : Dec 04, 2000 05:51:42
Printed : Jan 05, 2001 14:09:49
User : System

Channel A Results

Peak Name	Time	Area	Conc.
NAPHTHALENE	4.82	122	0.06
ACENAPHTYLENE	5.65	50	0.04
1-METHYLNAPHT	6.40	0	0.00
2-METHYLNAPHT	6.80	0	0.00
ACENAPTHENE	7.07	39	0.07
FLUORENE	7.51	517	0.06
PHENANTHRENE	8.60	1450	0.06
ANTHRACENE	9.64	3461	0.06
FLUORANTHENE	10.88	327	0.06
PYRENE	11.68	334	0.07
P-TERPHENYL-D	13.45	592	0.12
BENZO(A)ANTHR	14.59	687	0.06
CHRYSENE	15.19	849	0.06
BENZO(B)FLUOR	17.62	967	0.07
BENZO(K)FLOUR	18.66	885	0.09
BENZO(A)PYREN	19.53	705	0.08
DIBENZ(AH)ANT	21.27	104	0.04
BENZO(GHI)PER	22.16	250	0.07
INDENO(123CD)	23.11	909	0.09

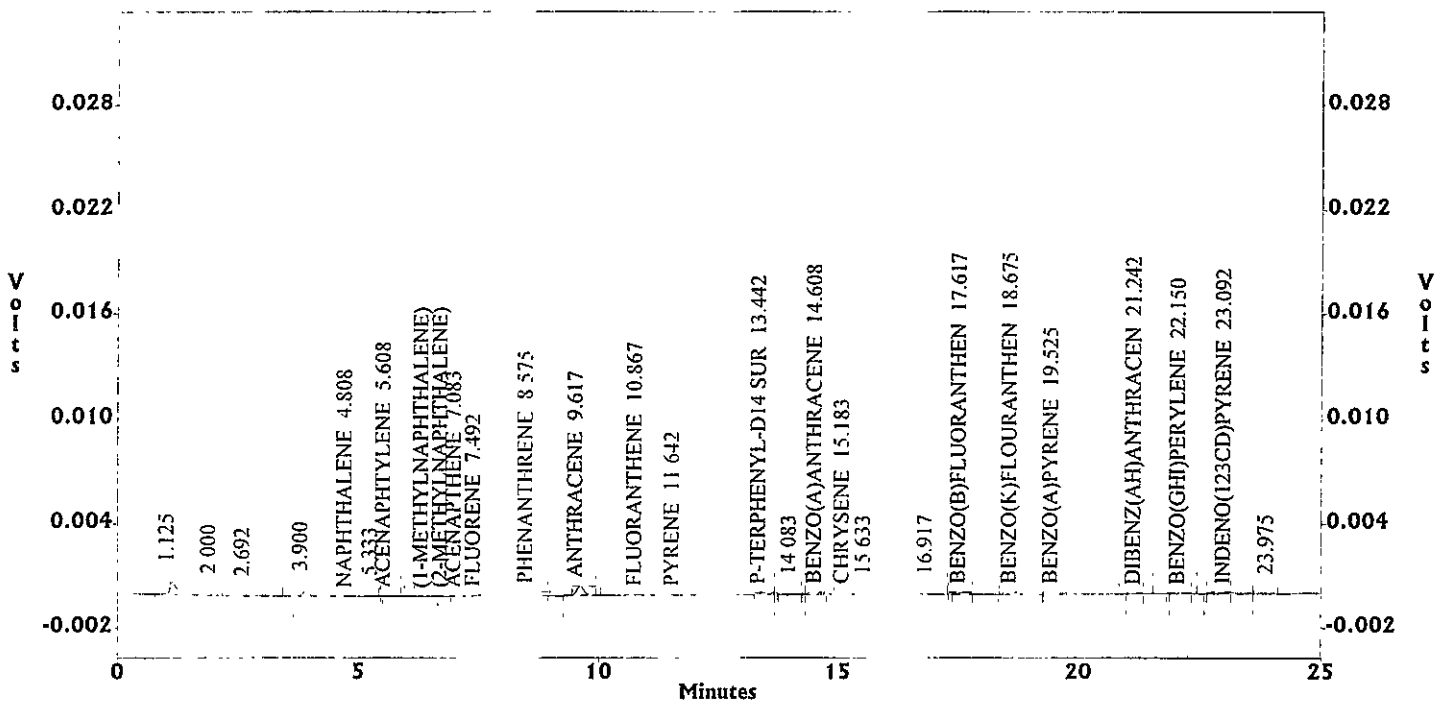
Channel B Results

Name	Time	Area	Conc.
NAPHTHALENE	4.92	17156	0.08
1-METHYLNAPHT	6.38	8294	0.00
2-METHYLNAPHT	6.80	10807	0.00
ACENAPTHENE	7.22	49461	0.04
FLUORENE	7.60	20104	0.12
PHENANTHRENE	8.73	17584	0.00
ANTHRACENE	9.73	7656	0.01
FLUORANTHENE	10.99	6171	0.00
PYRENE	11.78	35660	0.05
P-TERPHENYL-D	13.56	29846	0.10
BENZO(A)ANTHR	14.71	100350	0.08
CHRYSENE	15.29	167700	0.08
BENZO(B)FLUOR	17.72	53147	0.03
BENZO(K)FLUOR	18.77	366715	0.04
BENZO(A)PYREN	19.63	140189	0.07
DIBENZ(AH)ANT	21.37	48065	0.03
BENZO(GHI)PER	22.27	56161	0.03
INDENO(123CD)	23.19	7880	0.06

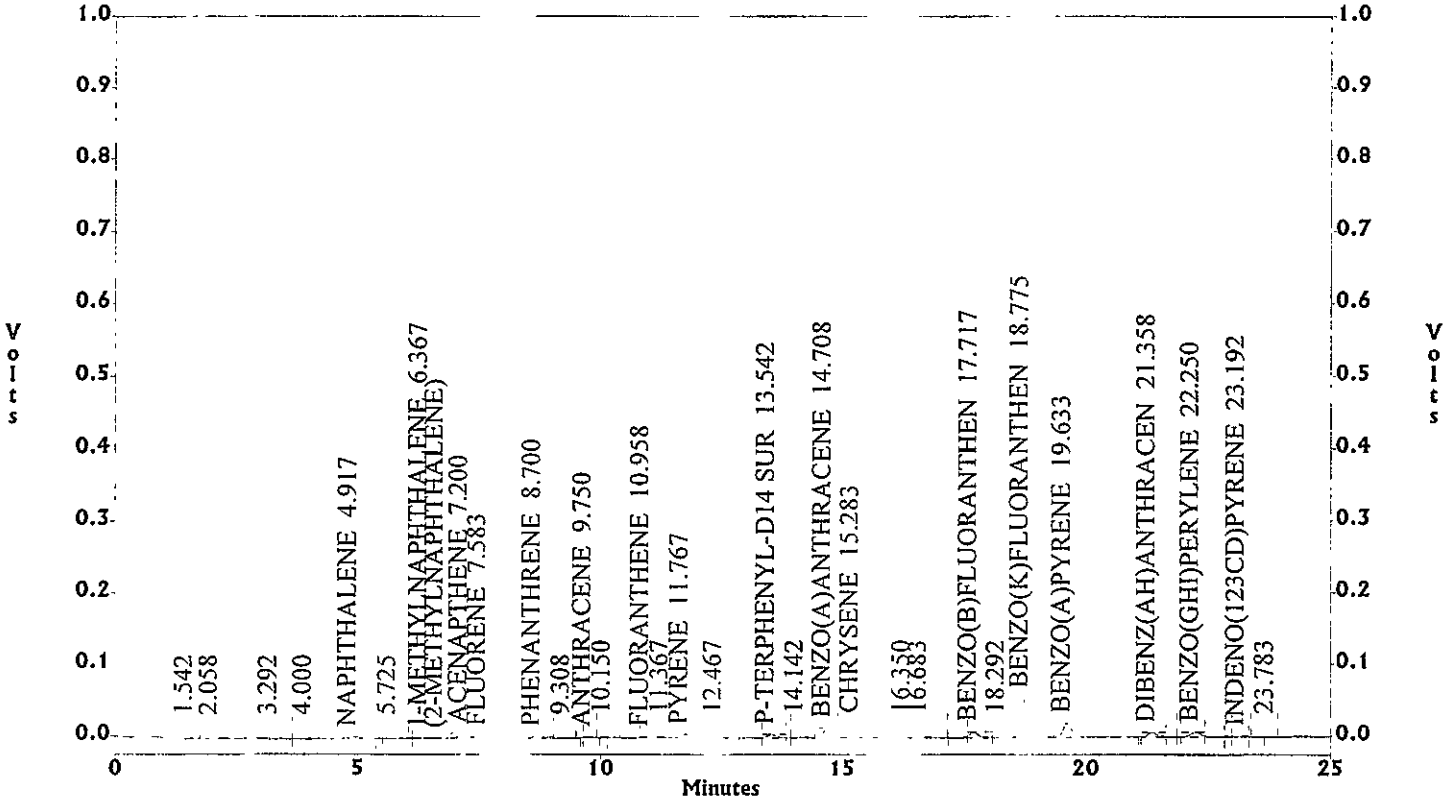
HPLC 1

File : c:\ezchromb\chrom\1204hp3.002
Method : c:\ezchromb\methods\lc1\l3ph1204.met
Sample ID : .1 initial cal
Acquired : Dec 04, 2000 06:17:56
Printed : Jan 05, 2001 14:09:52
User : System

c:\ezchromb\chrom\1204hp3.002 -- Channel A



c:\ezchromb\chrom\1204hp3.002 -- Channel B



HPLC 1

File : c:\ezchromb\chrom\1204hp3.002
Method : c:\ezchromb\methods\lc1\13ph1204.met
Sample ID : .1 initial cal
Acquired : Dec 04, 2000 06:17:56
Printed : Jan 05, 2001 14:09:52
User : System

Channel A Results

Peak Name	Time	Area	Conc.
NAPHTHALENE	4.81	240	0.13
ACENAPHTYLENE	5.61	132	0.10
1-METHYLNAPHT	6.40	0	0.00
2-METHYLNAPHT	6.80	0	0.00
ACENAPTHENE	7.08	44	0.08
FLUORENE	7.49	799	0.10
PHENANTHRENE	8.57	2565	0.10
ANTHRACENE	9.62	5834	0.10
FLUORANTHENE	10.87	534	0.09
PYRENE	11.64	588	0.12
P-TERPHENYL-D	13.44	1369	0.28
BENZO(A)ANTHR	14.61	1199	0.10
CHRYSENE	15.18	1371	0.10
BENZO(B)FLUOR	17.62	1454	0.10
BENZO(K)FLOUR	18.67	1299	0.12
BENZO(A)PYREN	19.52	1170	0.12
DIBENZ(AH)ANT	21.24	267	0.11
BENZO(GHI)PER	22.15	515	0.12
INDENO(123CD)	23.09	1423	0.12

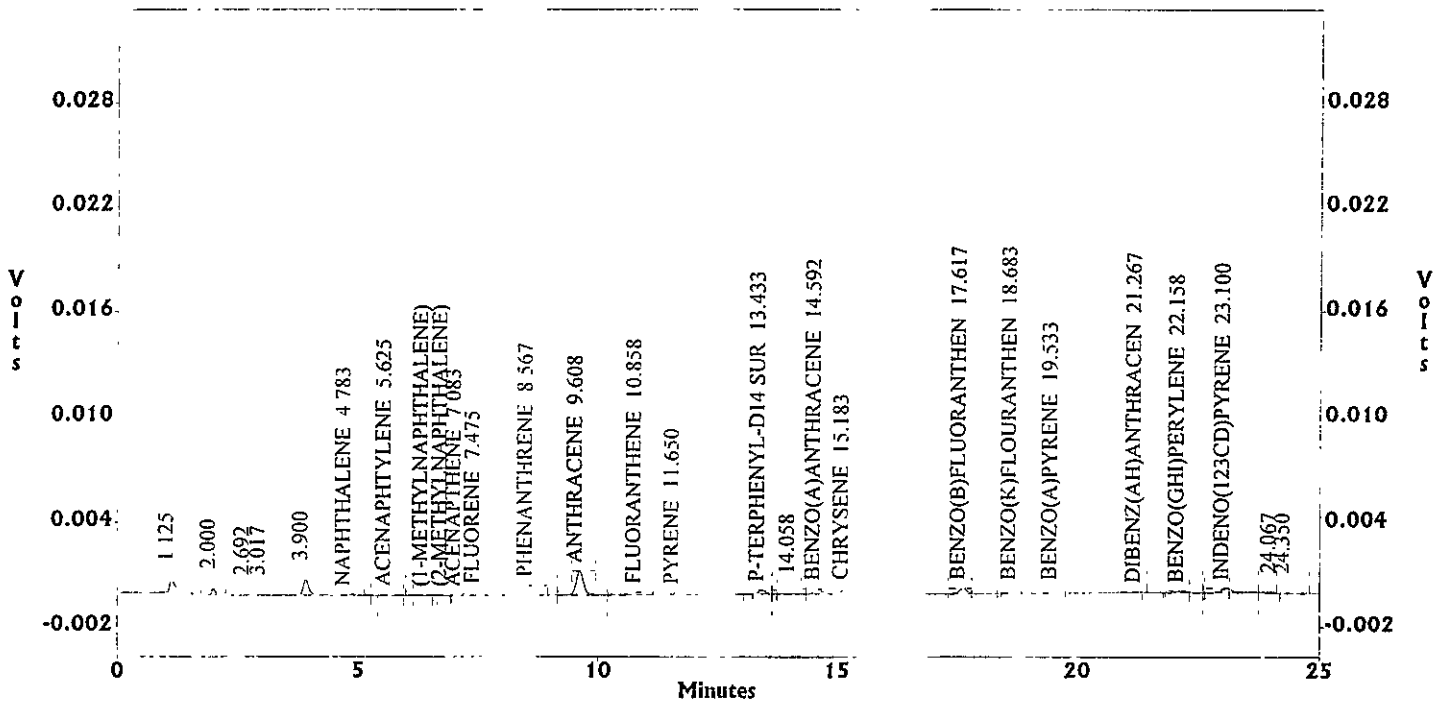
Channel B Results

Name	Time	Area	Conc.
NAPHTHALENE	4.92	24664	0.11
1-METHYLNAPHT	6.37	7605	0.00
2-METHYLNAPHT	6.70	0	0.00
ACENAPTHENE	7.20	78229	0.07
FLUORENE	7.58	31139	0.15
PHENANTHRENE	8.70	32719	0.07
ANTHRACENE	9.75	12109	0.04
FLUORANTHENE	10.96	15362	0.06
PYRENE	11.77	43936	0.07
P-TERPHENYL-D	13.54	61781	0.26
BENZO(A)ANTHR	14.71	153181	0.11
CHRYSENE	15.28	260332	0.11
BENZO(B)FLUOR	17.72	93174	0.07
BENZO(K)FLUOR	18.77	621585	0.08
BENZO(A)PYREN	19.63	227592	0.11
DIBENZ(AH)ANT	21.36	77049	0.07
BENZO(GHI)PER	22.25	99198	0.07
INDENO(123CD)	23.19	11186	0.08

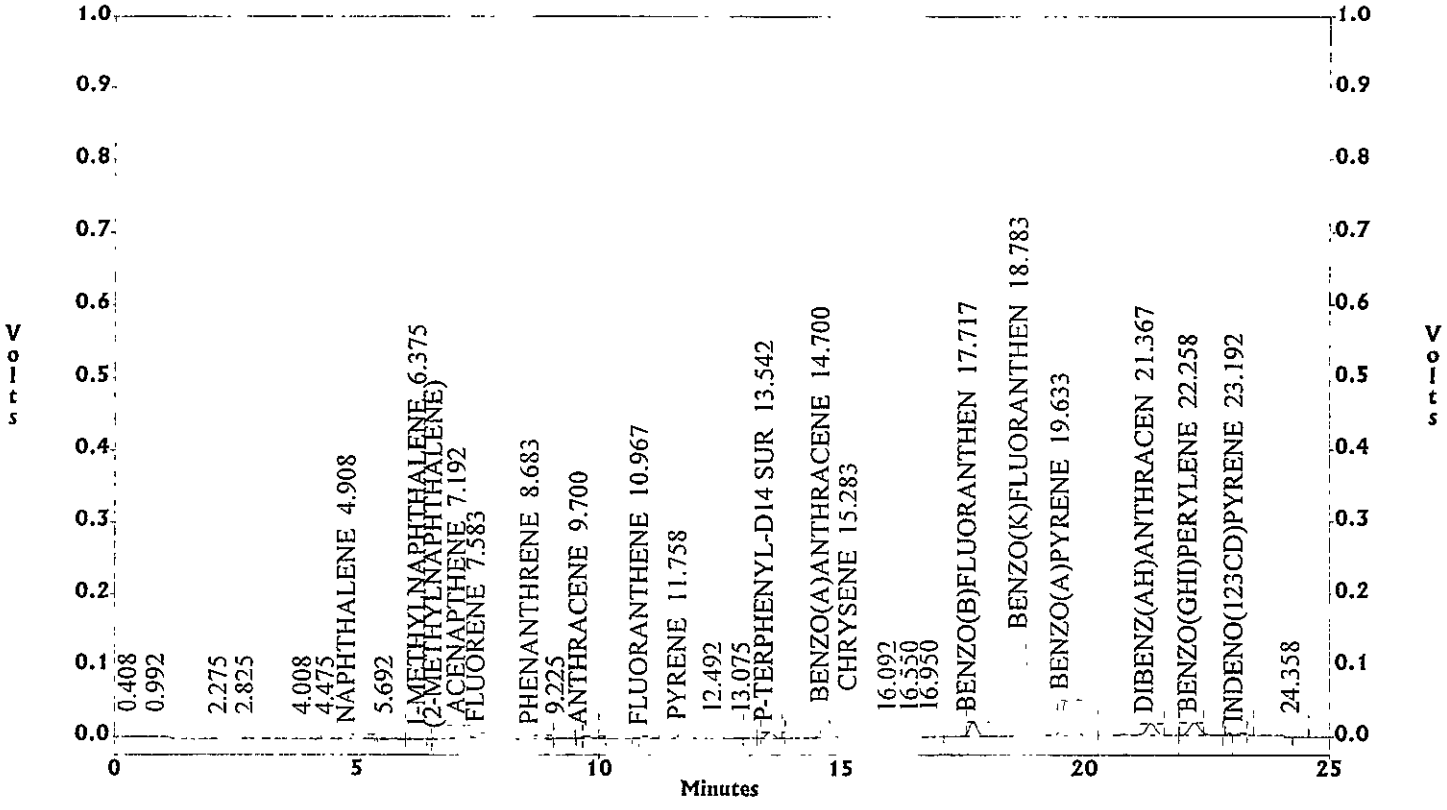
HPLC 1

File : c:\ezchromb\chrom\1204hp3.003
Method : c:\ezchromb\methods\lc1\l3ph1204.met
Sample ID : .25 initial cal
Acquired : Dec 04, 2000 06:44:10
Printed : Jan 05, 2001 14:09:53
User : System

c:\ezchromb\chrom\1204hp3.003 -- Channel A



c:\ezchromb\chrom\1204hp3.003 -- Channel B



HPLC 1

File : c:\ezchromb\chrom\1204hp3.003
Method : c:\ezchromb\methods\lc1\13ph1204.met
Sample ID : .25 initial cal
Acquired : Dec 04, 2000 06:44:10
Printed : Jan 05, 2001 14:09:54
User : System

Channel A Results

Peak Name	Time	Area	Conc.
NAPHTHALENE	4.78	439	0.23
ACENAPHTYLENE	5.63	348	0.27
1-METHYLNAPHT	6.40	0	0.00
2-METHYLNAPHT	6.80	0	0.00
ACENAPTHENE	7.08	104	0.19
FLUORENE	7.47	1872	0.23
PHENANTHRENE	8.57	6175	0.24
ANTHRACENE	9.61	14436	0.24
FLUORANTHENE	10.86	1458	0.25
PYRENE	11.65	1226	0.24
P-TERPHENYL-D	13.43	2181	0.44
BENZO(A)ANTHR	14.59	2937	0.24
CHRYSENE	15.18	3369	0.23
BENZO(B)FLUOR	17.62	3324	0.22
BENZO(K)FLOUR	18.68	2823	0.24
BENZO(A)PYREN	19.53	2787	0.24
DIBENZ(AH)ANT	21.27	488	0.19
BENZO(GHI)PER	22.16	1206	0.25
INDENO(123CD)	23.10	3516	0.25

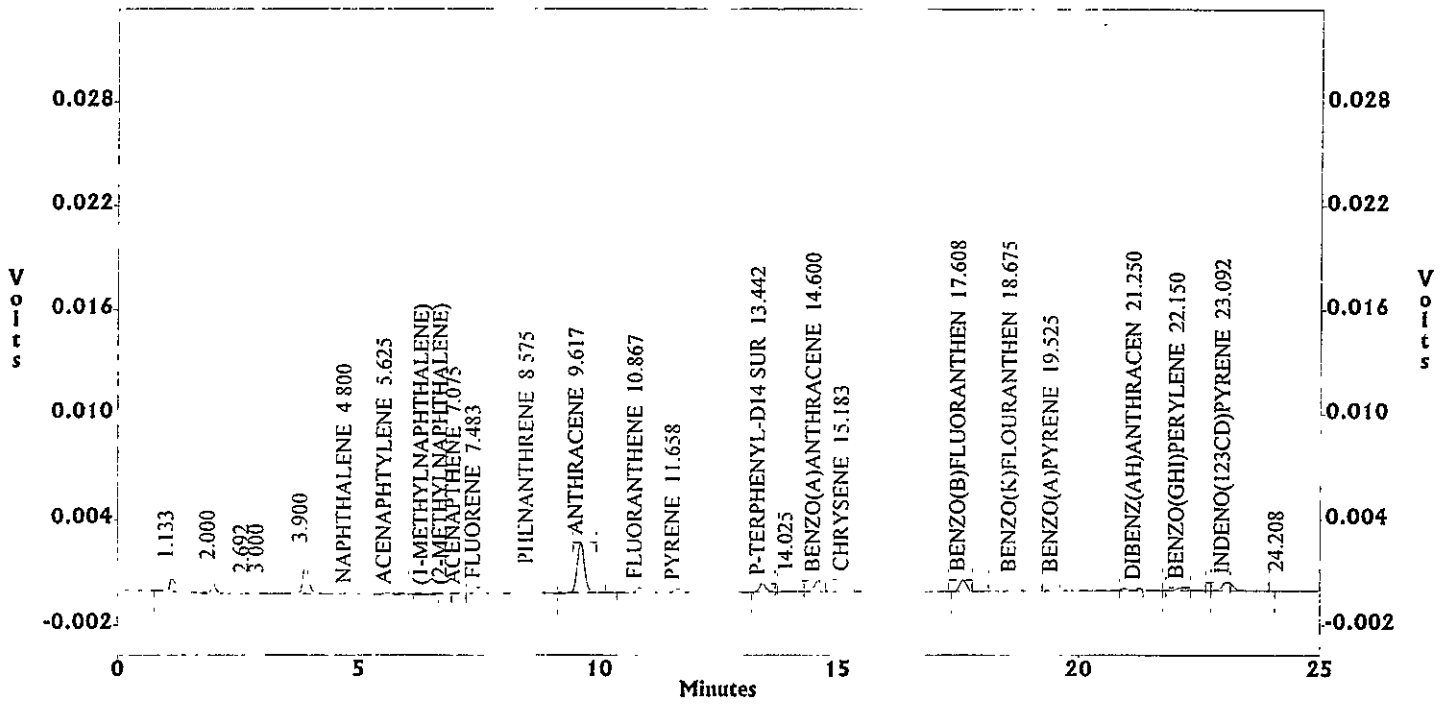
Channel B Results

Name	Time	Area	Conc.
NAPHTHALENE	4.91	73875	0.28
1-METHYLNAPHT	6.38	6312	0.00
2-METHYLNAPHT	6.70	0	0.00
ACENAPTHENE	7.19	199081	0.22
FLUORENE	7.58	76312	0.29
PHENANTHRENE	8.68	66145	0.24
ANTHRACENE	9.70	39040	0.24
FLUORANTHENE	10.97	33406	0.19
PYRENE	11.76	123571	0.21
P-TERPHENYL-D	13.54	99250	0.46
BENZO(A)ANTHR	14.70	382084	0.24
CHRYSENE	15.28	581890	0.24
BENZO(B)FLUOR	17.72	233441	0.22
BENZO(K)FLUOR	18.78	1564012	0.24
BENZO(A)PYREN	19.63	579428	0.24
DIBENZ(AH)ANT	21.37	213122	0.24
BENZO(GHI)PER	22.26	241296	0.22
INDENO(123CD)	23.19	36516	0.25

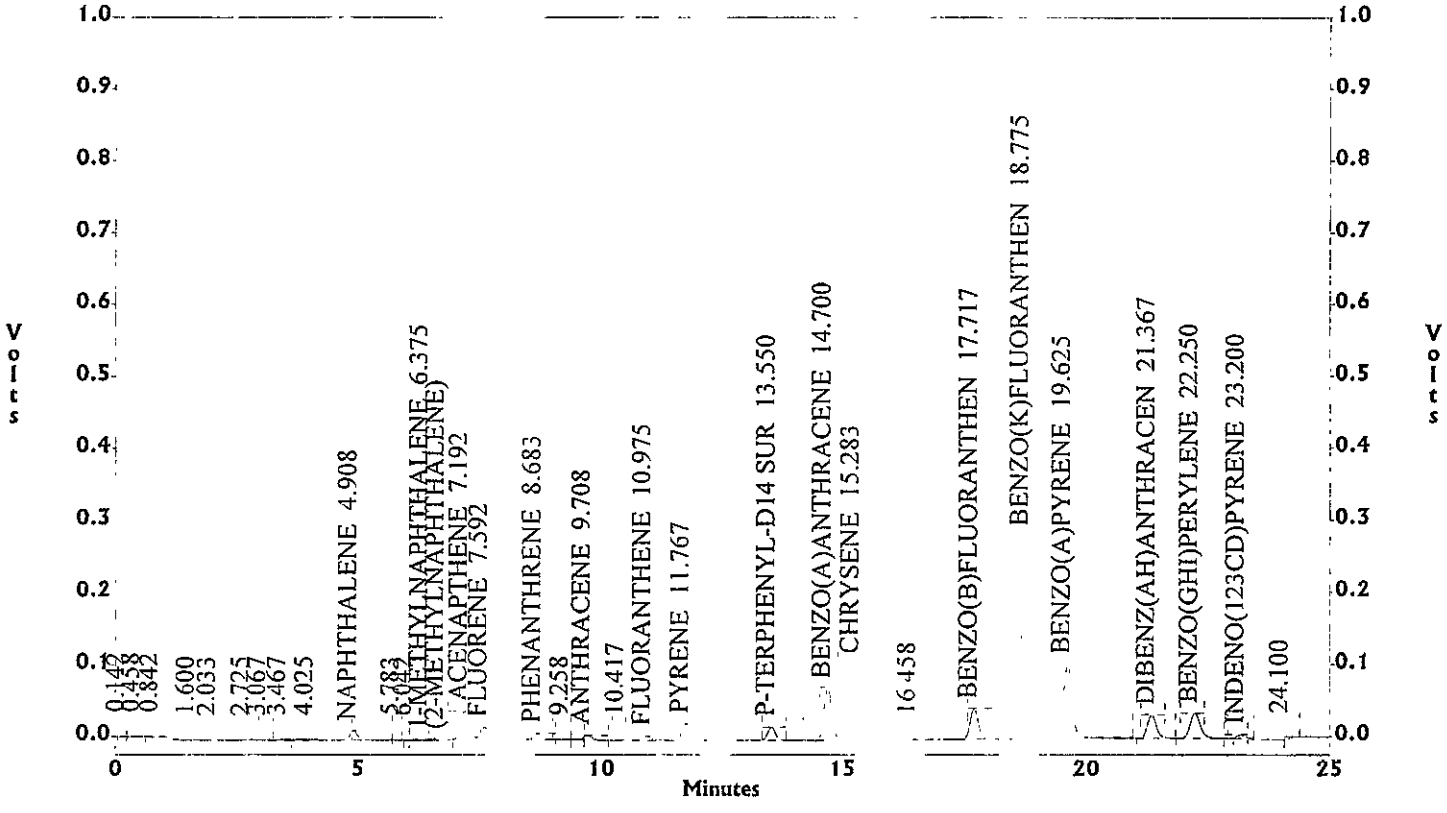
HPLC 1

File : c:\ezchromb\chrom\1204hp3.004
Method : c:\ezchromb\methods\lc1\13ph1204.met
Sample ID : .5 initial cal
Acquired : Dec 04, 2000 07:10:24
Printed : Jan 05, 2001 14:09:55
User : System

c:\ezchromb\chrom\1204hp3.004 -- Channel A



c:\ezchromb\chrom\1204hp3.004 -- Channel B



HPLC 1

File : c:\ezchromb\chrom\1204hp3.004
Method : c:\ezchromb\methods\lc1\l3ph1204.met
Sample ID : .5 initial cal
Acquired : Dec 04, 2000 07:10:24
Printed : Jan 05, 2001 14:09:55
User : System

Channel A Results

Peak Name	Time	Area	Conc.
NAPHTHALENE	4.80	924	0.49
ACENAPHTYLENE	5.63	667	0.52
1-METHYLNAPHT	6.40	0	0.00
2-METHYLNAPHT	6.80	0	0.00
ACENAPTHENE	7.07	357	0.65
FLUORENE	7.48	3987	0.50
PHENANTHRENE	8.57	12564	0.49
ANTHRACENE	9.62	29771	0.49
FLUORANTHENE	10.87	2813	0.48
PYRENE	11.66	2356	0.46
P-TERPHENYL-D	13.44	4270	0.87
BENZO(A)ANTHR	14.60	6036	0.49
CHRYSENE	15.18	6927	0.48
BENZO(B)FLUOR	17.61	6822	0.46
BENZO(K)FLOUR	18.67	5939	0.48
BENZO(A)PYREN	19.52	5920	0.48
DIBENZ(AH)ANT	21.25	1635	0.64
BENZO(GHI)PER	22.15	2481	0.49
INDENO(123CD)	23.09	7274	0.48

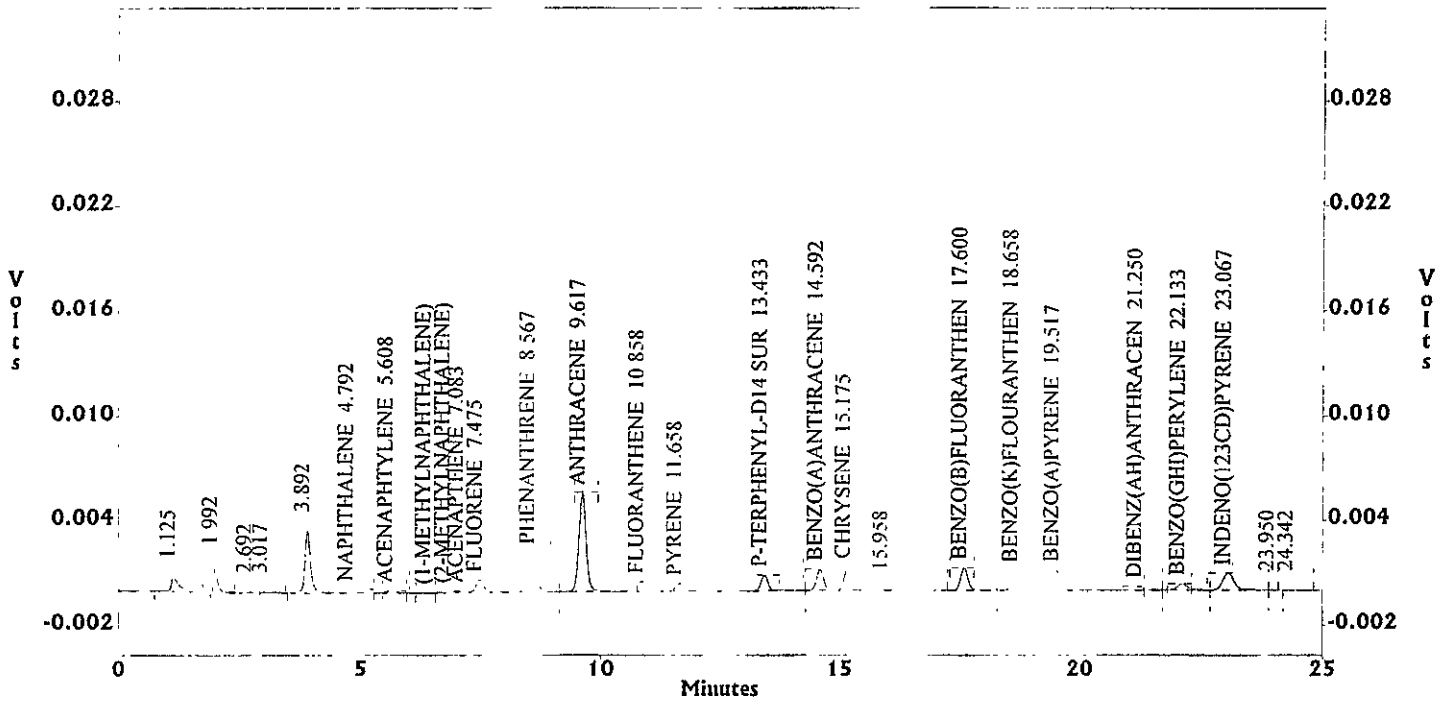
Channel B Results

Name	Time	Area	Conc.
NAPHTHALENE	4.91	152398	0.55
1-METHYLNAPHT	6.38	3797	0.00
2-METHYLNAPHT	6.70	0	0.00
ACENAPTHENE	7.19	417535	0.48
FLUORENE	7.59	156863	0.54
PHENANTHRENE	8.68	118520	0.51
ANTHRACENE	9.71	79342	0.54
FLUORANTHENE	10.98	82477	0.55
PYRENE	11.77	277273	0.49
P-TERPHENYL-D	13.55	227981	1.13
BENZO(A)ANTHR	14.70	784927	0.48
CHRYSENE	15.28	1193626	0.48
BENZO(B)FLUOR	17.72	501085	0.49
BENZO(K)FLUOR	18.77	3235247	0.52
BENZO(A)PYREN	19.63	1207252	0.48
DIBENZ(AH)ANT	21.37	397274	0.47
BENZO(GHI)PER	22.25	503609	0.48
INDENO(123CD)	23.20	75425	0.51

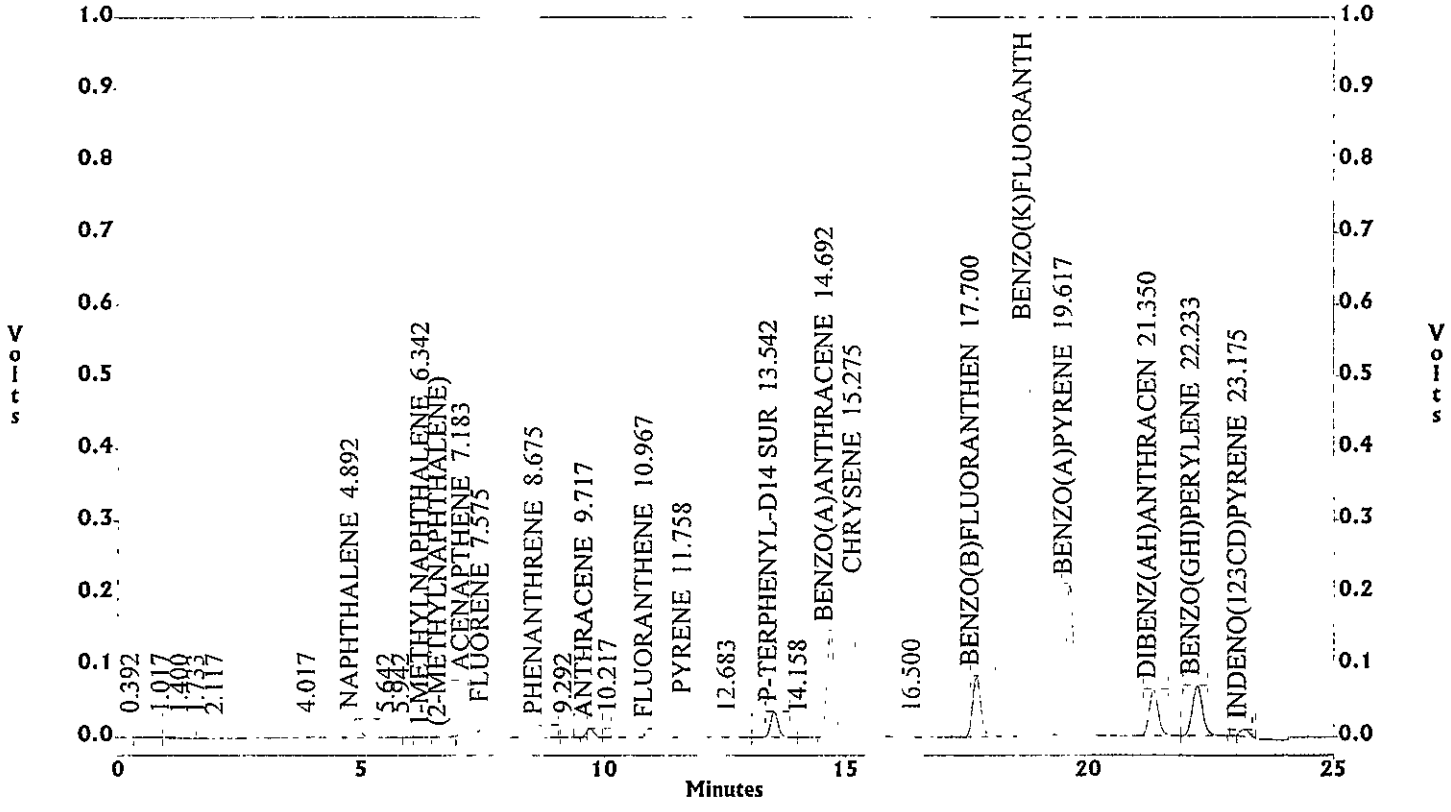
HPLC 1

File : c:\ezchromb\chrom\1204hp3.005
Method : c:\ezchromb\methods\lc1\l3ph1204.met
Sample ID : 1.0 initial cal
Acquired : Dec 04, 2000 07:36:38
Printed : Jan 05, 2001 14:09:57
User : System

c:\ezchromb\chrom\1204hp3.005 -- Channel A



c:\ezchromb\chrom\1204hp3.005 -- Channel B



HPLC 1

File : c:\ezchromb\chrom\1204hp3.005
Method : c:\ezchromb\methods\1c1\13ph1204.met
Sample ID : 1.0 initial cal
Acquired : Dec 04, 2000 07:36:38
Printed : Jan 05, 2001 14:09:57
User : System

Channel A Results

Peak Name	Time	Area	Conc.
NAPHTHALENE	4.79	1790	0.95
ACENAPHTYLENE	5.61	1302	1.01
1-METHYLNAPHT	6.40	0	0.00
2-METHYLNAPHT	6.80	0	0.00
ACENAPTHENE	7.08	526	0.95
FLUORENE	7.47	7528	0.94
PHENANTHRENE	8.57	24767	0.96
ANTHRACENE	9.62	59411	0.98
FLUORANTHENE	10.86	5673	0.97
PYRENE	11.66	4633	0.91
P-TERPHENYL-D	13.43	9141	1.86
BENZO(A)ANTHR	14.59	12004	0.97
CHRYSENE	15.18	13743	0.95
BENZO(B)FLUOR	17.60	13639	0.92
BENZO(K)FLOUR	18.66	11858	0.95
BENZO(A)PYREN	19.52	12134	0.95
DIBENZ(AH)ANT	21.25	2673	1.05
BENZO(GHI)PER	22.13	5015	0.97
INDENO(123CD)	23.07	14584	0.93

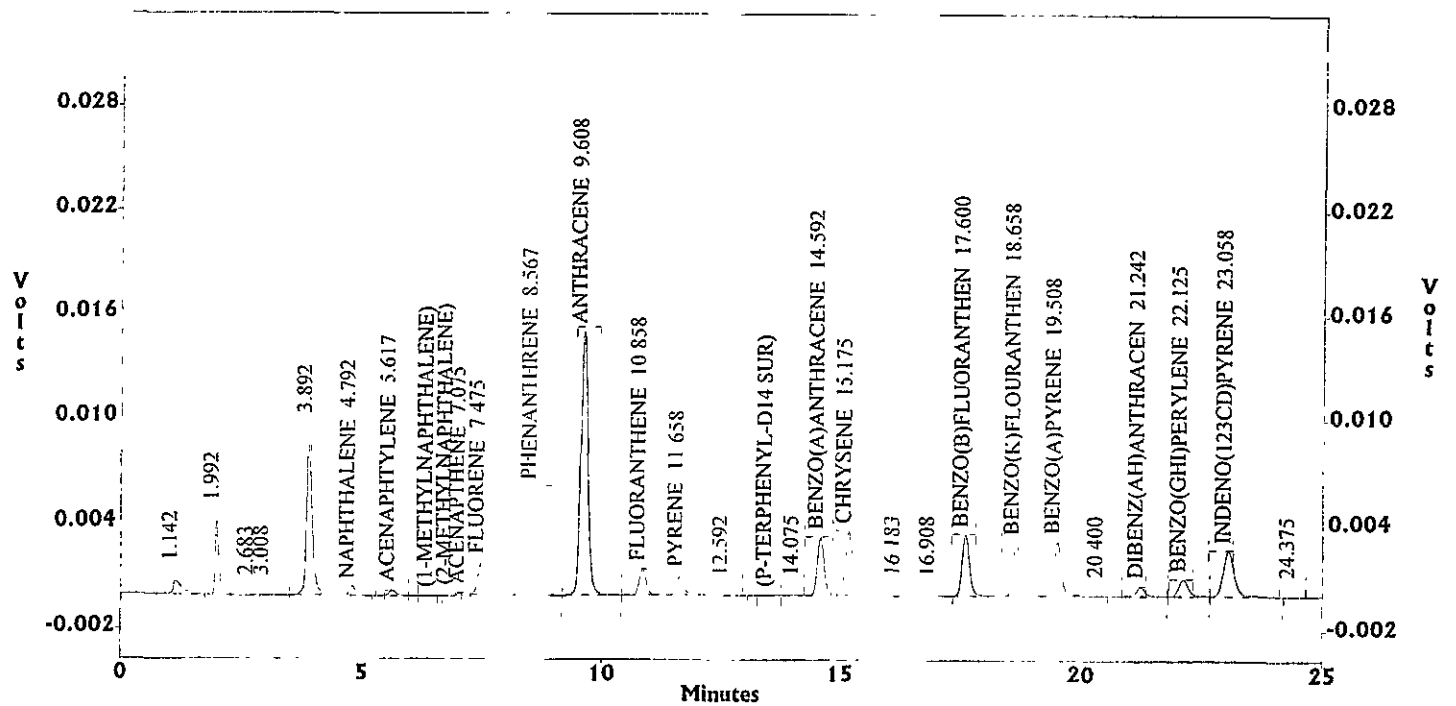
Channel B Results

Name	Time	Area	Conc.
NAPHTHALENE	4.89	269027	0.96
1-METHYLNAPHT	6.34	5247	0.00
2-METHYLNAPHT	6.70	0	0.00
ACENAPTHENE	7.18	827524	0.97
FLUORENE	7.57	312761	1.01
PHENANTHRENE	8.68	207898	0.96
ANTHRACENE	9.72	133658	0.95
FLUORANTHENE	10.97	144637	0.99
PYRENE	11.76	536981	0.96
P-TERPHENYL-D	13.54	383616	1.93
BENZO(A)ANTHR	14.69	1578393	0.94
CHRYSENE	15.27	2385636	0.94
BENZO(B)FLUOR	17.70	965971	0.98
BENZO(K)FLUOR	18.77	6482594	1.07
BENZO(A)PYREN	19.62	2409023	0.95
DIBENZ(AH)ANT	21.35	801235	0.97
BENZO(GHI)PER	22.23	1011404	0.99
INDENO(123CD)	23.17	123955	0.83

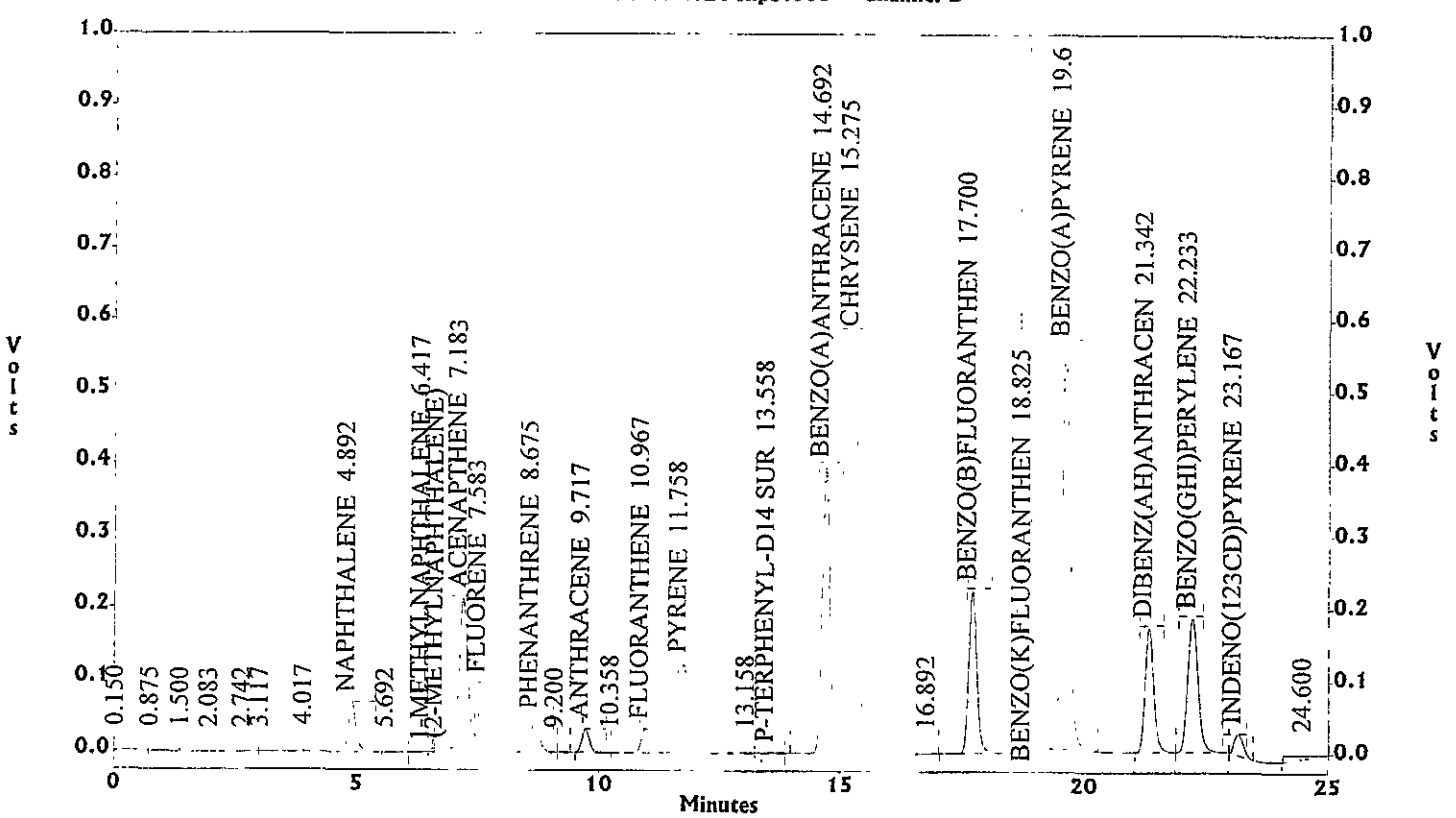
HPLC 1

File : c:\ezchromb\chrom\1204hp3.006
Method : c:\ezchromb\methods\1c1\13ph1204.met
Sample ID : 2.5 initial cal
Acquired : Dec 04, 2000 08:02:52
Printed : Jan 05, 2001 14:09:59
User : System

c:\ezchromb\chrom\1204hp3.006 -- Channel A



c:\ezchromb\chrom\1204hp3.006 -- Channel B



HPLC 1

File : c:\ezchromb\chrom\1204hp3.006
Method : c:\ezchromb\methods\lc1\13ph1204.met
Sample ID : 2.5 initial cal
Acquired : Dec 04, 2000 08:02:52
Printed : Jan 05, 2001 14:09:59
User : System

Channel A Results

Peak Name	Time	Area	Conc.
NAPHTHALENE	4.79	4765	2.53
ACENAPHTYLENE	5.62	3465	2.68
1-METHYLNAPHT	6.40	0	0.00
2-METHYLNAPHT	6.80	0	0.00
ACENAPTHENE	7.07	1368	2.48
FLUORENE	7.47	20282	2.52
PHENANTHRENE	8.57	66652	2.60
ANTHRACENE	9.61	160551	2.64
FLUORANTHENE	10.86	15419	2.64
PYRENE	11.66	12454	2.44
P-TERPHENYL-D	13.50	0	0.00
BENZO(A)ANTHR	14.59	32527	2.62
CHRYSENE	15.18	36744	2.55
BENZO(B)FLUOR	17.60	36706	2.47
BENZO(K)FLOUR	18.66	31990	2.52
BENZO(A)PYREN	19.51	32785	2.52
DIBENZ(AH)ANT	21.24	6465	2.55
BENZO(GHI)PER	22.13	13124	2.51
INDENO(123CD)	23.06	40435	2.53

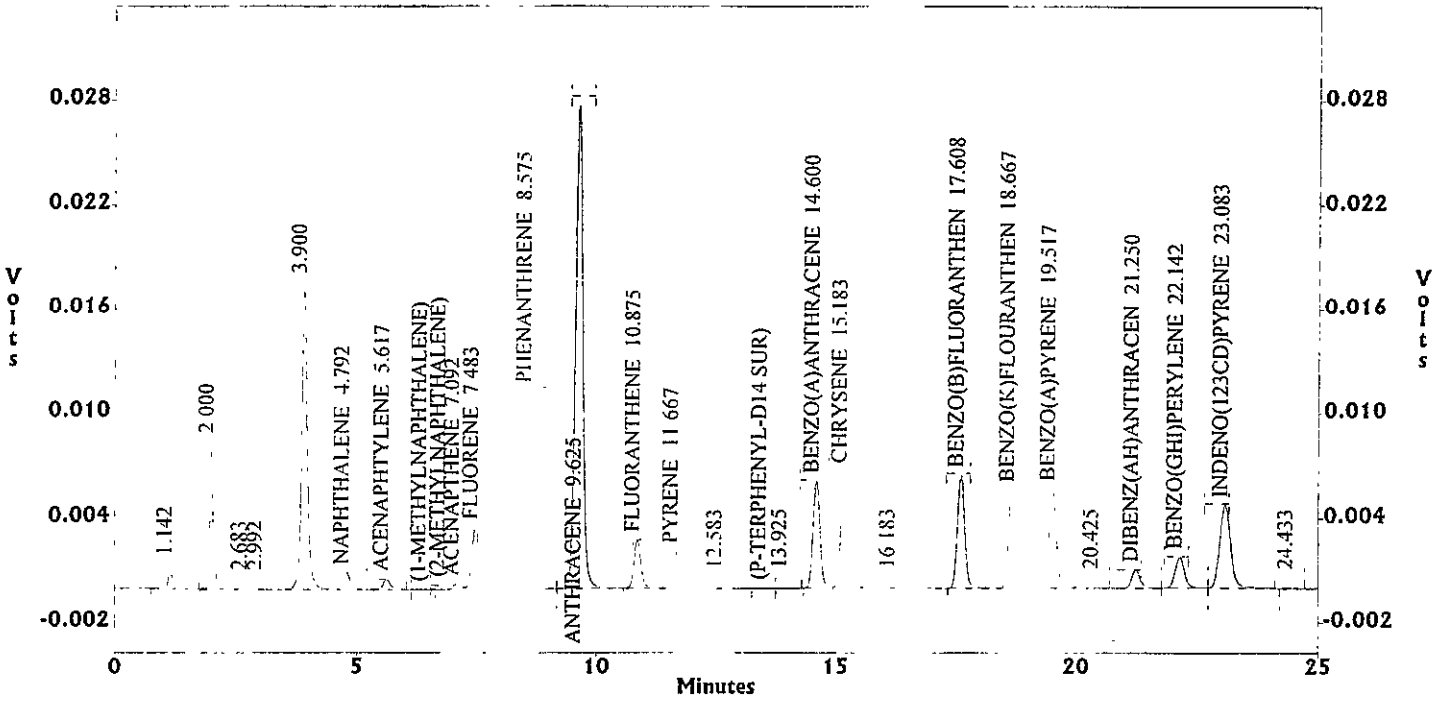
Channel B Results

Name	Time	Area	Conc.
NAPHTHALENE	4.89	740220	2.60
1-METHYLNAPHT	6.42	10684	0.00
2-METHYLNAPHT	6.70	0	0.00
ACENAPTHENE	7.18	2259054	2.67
FLUORENE	7.58	843653	2.64
PHENANTHRENE	8.68	546744	2.68
ANTHRACENE	9.72	359024	2.64
FLUORANTHENE	10.97	375322	2.65
PYRENE	11.76	1458911	2.64
P-TERPHENYL-D	13.56	15155	0.02
BENZO(A)ANTHR	14.69	4291100	2.53
CHRYSENE	15.27	6427160	2.52
BENZO(B)FLUOR	17.70	2600051	2.68
BENZO(K)FLUOR	18.83	14755366	2.47
BENZO(A)PYREN	19.62	6494444	2.52
DIBENZ(AH)ANT	21.34	2154327	2.67
BENZO(GHI)PER	22.23	2691149	2.67
INDENO(123CD)	23.17	377610	2.50

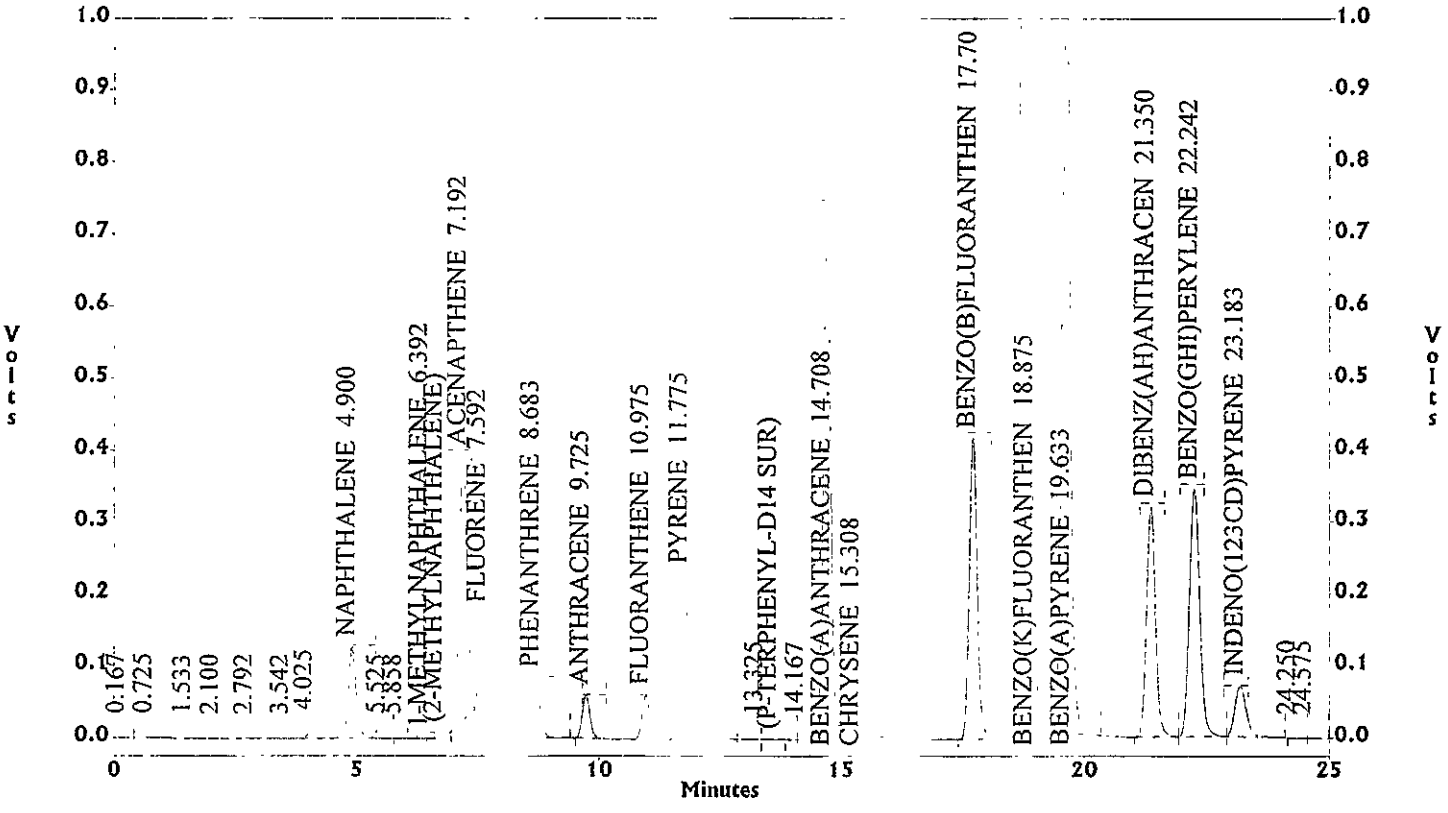
HPLC 1

File : c:\ezchromb\chrom\1204hp3.007
Method : c:\ezchromb\methods\lc1\13ph1204.met
Sample ID : 5.0 initial cal
Acquired : Dec 04, 2000 08:29:05
Printed : Jan 05, 2001 14:10:02
User : System

c:\ezchromb\chrom\1204hp3.007 -- Channel A



c:\ezchromb\chrom\1204hp3.007 -- Channel B



HPLC 1

File : c:\ezchromb\chrom\1204hp3.007
Method : c:\ezchromb\methods\lc1\l3ph1204.met
Sample ID : 5.0 initial cal
Acquired : Dec 04, 2000 08:29:05
Printed : Jan 05, 2001 14:10:02
User : System

Channel A Results

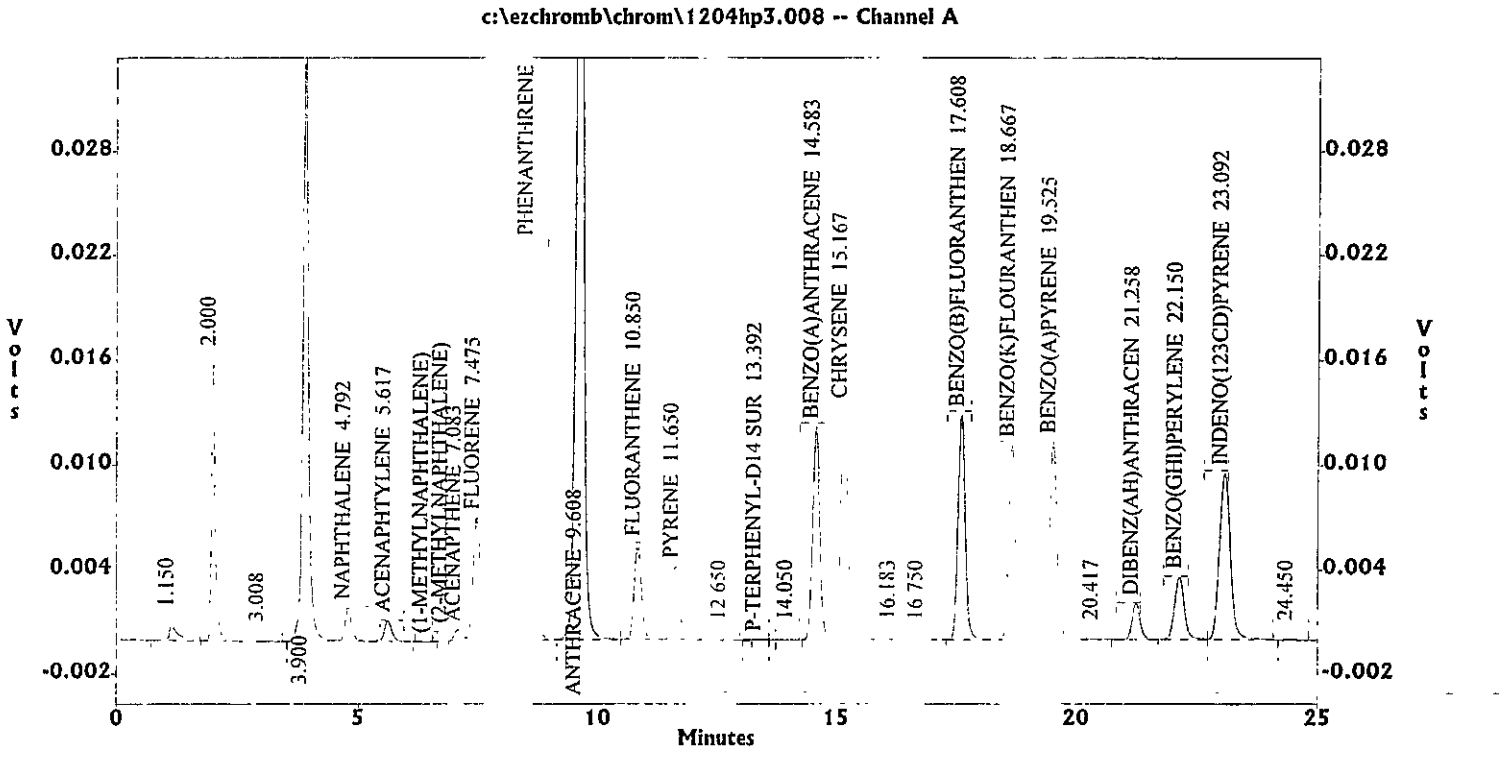
Peak Name	Time	Area	Conc.
NAPHTHALENE	4.79	8810	4.68
ACENAPHTYLENE	5.62	6424	4.97
1-METHYLNAPHT	6.40	0	0.00
2-METHYLNAPHT	6.80	0	0.00
ACENAPTHENE	7.09	2544	4.61
FLUORENE	7.48	37496	4.67
PHENANTHRENE	8.57	123198	4.80
ANTHRACENE	9.63	295821	4.87
FLUORANTHENE	10.88	28477	4.87
PYRENE	11.67	22991	4.51
P-TERPHENYL-D	13.50	0	0.00
BENZO(A)ANTHR	14.60	60454	4.86
CHRYSENE	15.18	67986	4.72
BENZO(B)FLUOR	17.61	68127	4.59
BENZO(K)FLOUR	18.67	59279	4.66
BENZO(A)PYREN	19.52	60990	4.66
DIBENZ(AH)ANT	21.25	12036	4.74
BENZO(GHI)PER	22.14	24459	4.67
INDENO(123CD)	23.08	74386	4.62

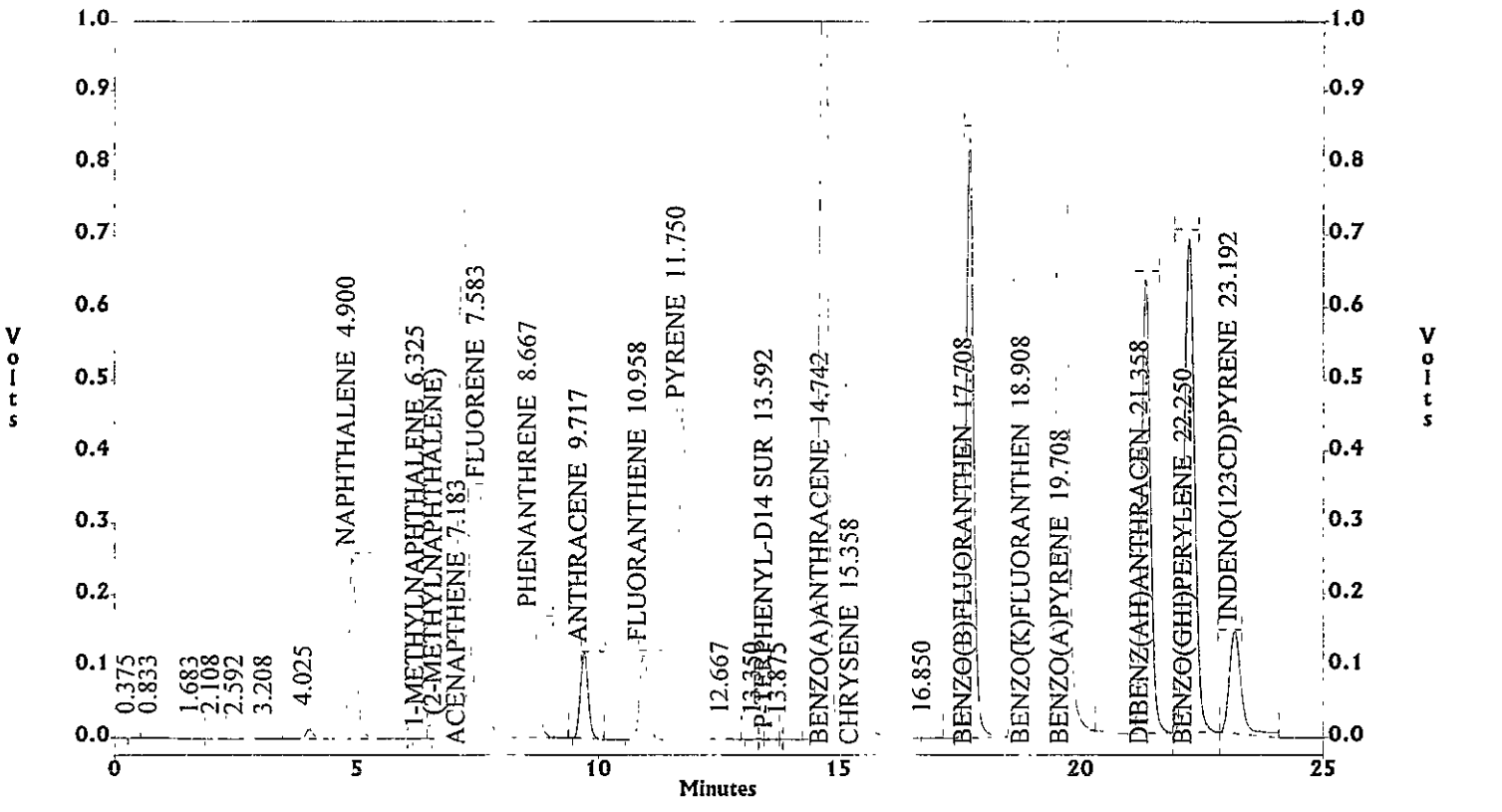
Channel B Results

Name	Time	Area	Conc.
NAPHTHALENE	4.90	1367232	4.78
1-METHYLNAPHT	6.39	5879	0.00
2-METHYLNAPHT	6.70	0	0.00
ACENAPTHENE	7.19	4186607	4.98
FLUORENE	7.59	1564530	4.85
PHENANTHRENE	8.68	990879	4.94
ANTHRACENE	9.73	676891	5.03
FLUORANTHENE	10.98	708352	5.04
PYRENE	11.77	2714797	4.93
P-TERPHENYL-D	13.60	0	0.00
BENZO(A)ANTHR	14.71	7979133	4.68
CHRYSENE	15.31	11749645	4.61
BENZO(B)FLUOR	17.71	4801451	4.97
BENZO(K)FLUOR	18.88	18401800	3.08
BENZO(A)PYREN	19.63	11984582	4.64
DIBENZ(AH)ANT	21.35	4004820	4.99
BENZO(GHI)PER	22.24	4990158	4.97
INDENO(123CD)	23.18	1139734	7.53

HPLC 1

File : c:\ezchromb\chrom\1204hp3.008
Method : c:\ezchromb\methods\lc1\l3ph1204.met
Sample ID : 10.0 initial cal
Acquired : Dec 04, 2000 08:55:19
Printed : Jan 05, 2001 14:10:04
User : System





HPLC 1

File : c:\ezchromb\chrom\1204hp3.008
Method : c:\ezchromb\methods\lc1\l3ph1204.met
Sample ID : 10.0 initial cal
Acquired : Dec 04, 2000 08:55:19
Printed : Jan 05, 2001 14:10:04
User : System

Channel A Results

Peak Name	Time	Area	Conc.
NAPHTHALENE	4.79	17596	9.34
ACENAPHTYLENE	5.62	12706	9.84
1-METHYLNAPHT	6.40	0	0.00
2-METHYLNAPHT	6.80	0	0.00
ACENAPTHENE	7.08	5066	9.17
FLUORENE	7.47	74907	9.32
PHENANTHRENE	8.57	246090	9.58
ANTHRACENE	9.61	585752	9.64
FLUORANTHENE	10.85	57082	9.76
PYRENE	11.65	46117	9.05
P-TERPHENYL-D	13.39	221	0.04
BENZO(A)ANTHR	14.58	121380	9.77
CHRYSENE	15.17	136267	9.46
BENZO(B)FLUOR	17.61	136753	9.20
BENZO(K)FLOUR	18.67	119036	9.33
BENZO(A)PYREN	19.52	122741	9.35
DIBENZ(AH)ANT	21.26	24121	9.50
BENZO(GHI)PER	22.15	49403	9.41
INDENO(123CD)	23.09	148485	9.19

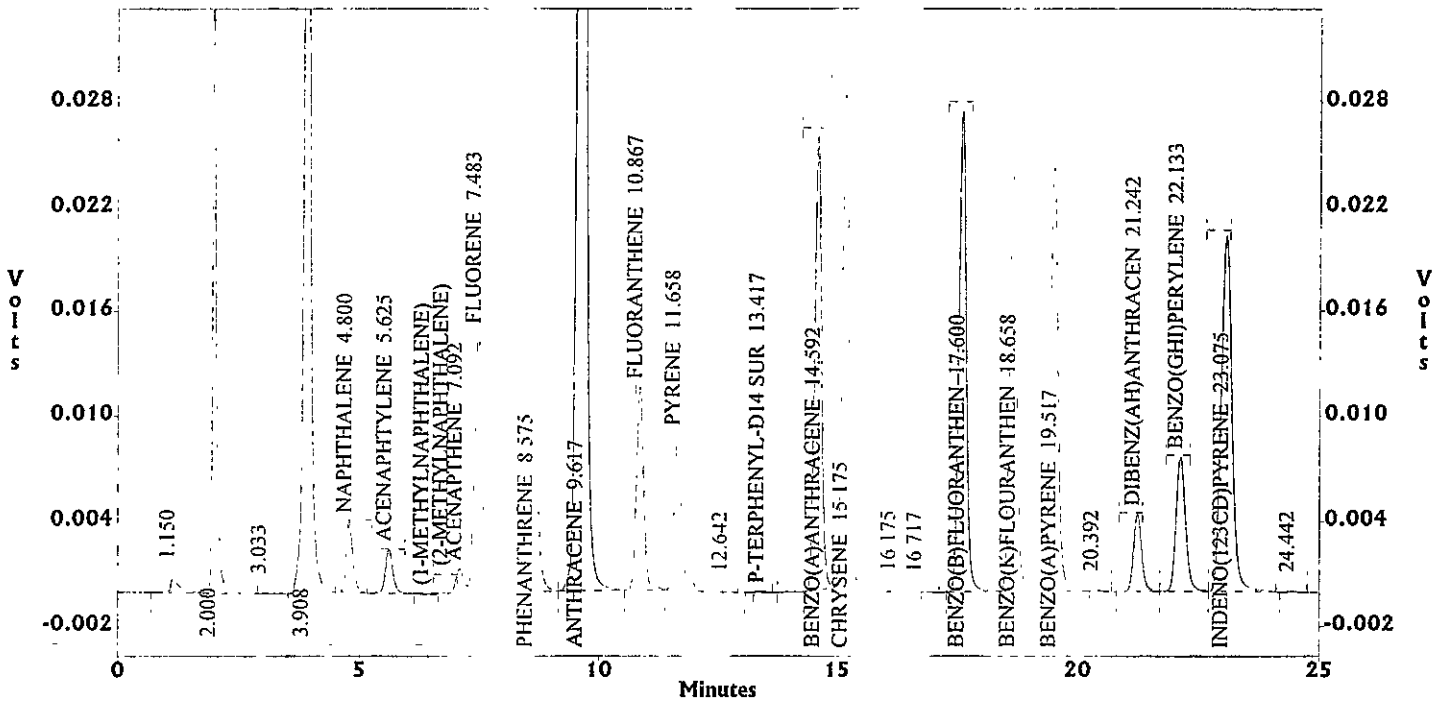
Channel B Results

Name	Time	Area	Conc.
NAPHTHALENE	4.90	2753995	9.61
1-METHYLNAPHT	6.32	5874	0.00
2-METHYLNAPHT	6.70	0	0.00
ACENAPTHENE	7.18	8368973	9.97
FLUORENE	7.58	3116534	9.60
PHENANTHRENE	8.67	1984470	9.98
ANTHRACENE	9.72	1332511	9.95
FLUORANTHENE	10.96	1390347	9.94
PYRENE	11.75	5380617	9.79
P-TERPHENYL-D	13.59	2482	0.00
BENZO(A)ANTHR	14.74	13721678	8.04
CHRYSENE	15.36	16189476	6.34
BENZO(B)FLUOR	17.71	9617082	9.97
BENZO(K)FLUOR	18.91	22040732	3.70
BENZO(A)PYREN	19.71	16716255	6.46
DIBENZ(AH)ANT	21.36	7969578	9.96
BENZO(GHI)PER	22.25	9981953	9.97
INDENO(123CD)	23.19	2487825	16.42

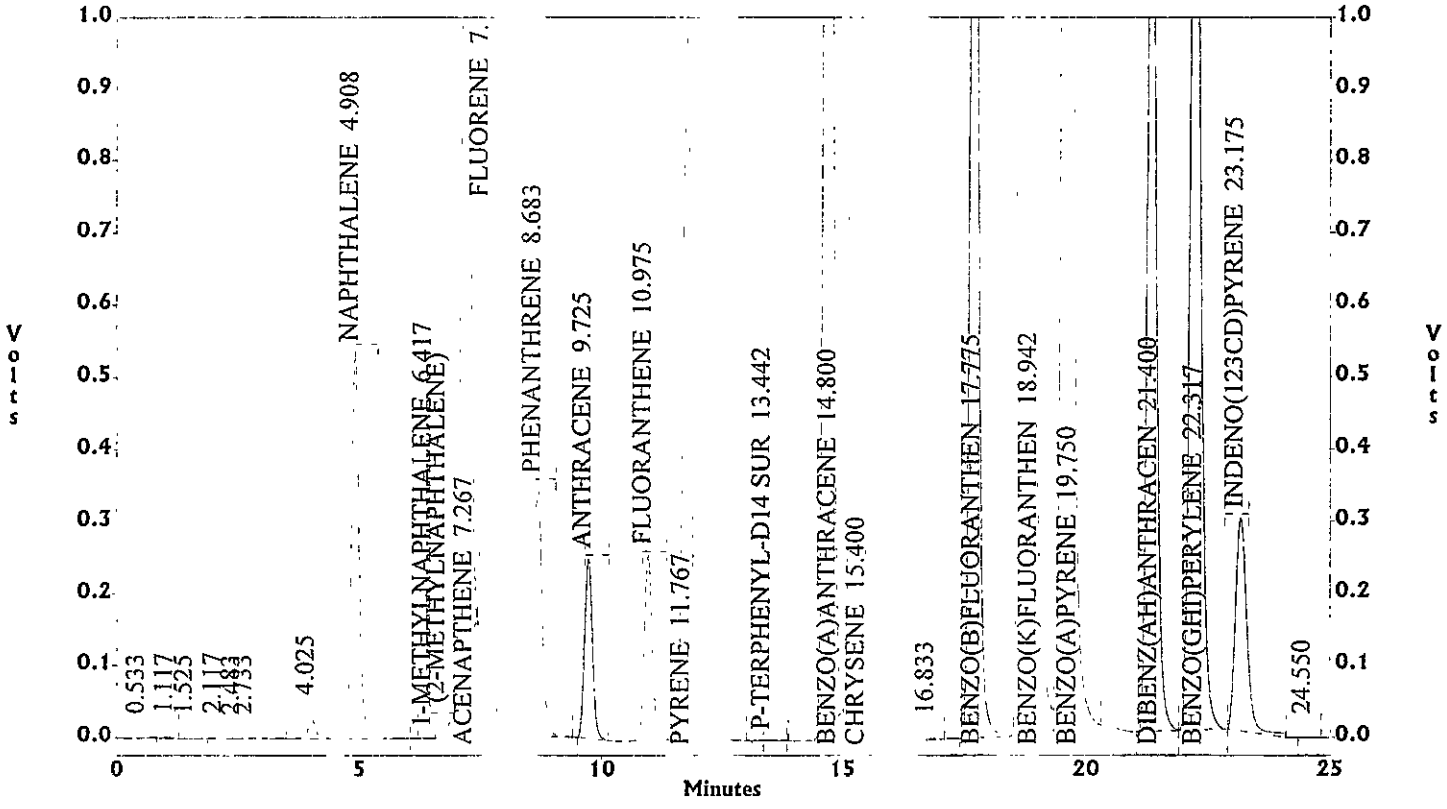
HPLC 1

File : c:\ezchromb\chrom\1204hp3.009
Method : c:\ezchromb\methods\lc1\13ph1204.met
Sample ID : 20 initial cal
Acquired : Dec 04, 2000 09:21:32
Printed : Jan 05, 2001 14:10:06
User : System

c:\ezchromb\chrom\1204hp3.009 -- Channel A



c:\ezchromb\chrom\1204hp3.009 -- Channel B



HPLC 1

File : c:\ezchromb\chrom\1204hp3.009
Method : c:\ezchromb\methods\lc1\l3ph1204.met
Sample ID : 20 initial cal
Acquired : Dec 04, 2000 09:21:32
Printed : Jan 05, 2001 14:10:06
User : System

Channel A Results

Peak Name	Time	Area	Conc.
NAPHTHALENE	4.80	36882	19.58
ACENAPHTYLENE	5.63	26739	20.70
1-METHYLNAPHT	6.40	0	0.00
2-METHYLNAPHT	6.80	0	0.00
ACENAPTHENE	7.09	10628	19.25
FLUORENE	7.48	158122	19.68
PHENANTHRENE	8.57	518721	20.20
ANTHRACENE	9.62	1209726	19.90
FLUORANTHENE	10.87	120775	20.66
PYRENE	11.66	97580	19.14
P-TERPHENYL-D	13.42	487	0.10
BENZO(A)ANTHR	14.59	257256	20.70
CHRYSENE	15.18	288059	19.99
BENZO(B)FLUOR	17.60	289570	19.49
BENZO(K)FLOUR	18.66	252207	19.75
BENZO(A)PYREN	19.52	260962	19.85
DIBENZ(AH)ANT	21.24	51221	20.18
BENZO(GHI)PER	22.13	104924	19.96
INDENO(123CD)	23.08	313937	19.39

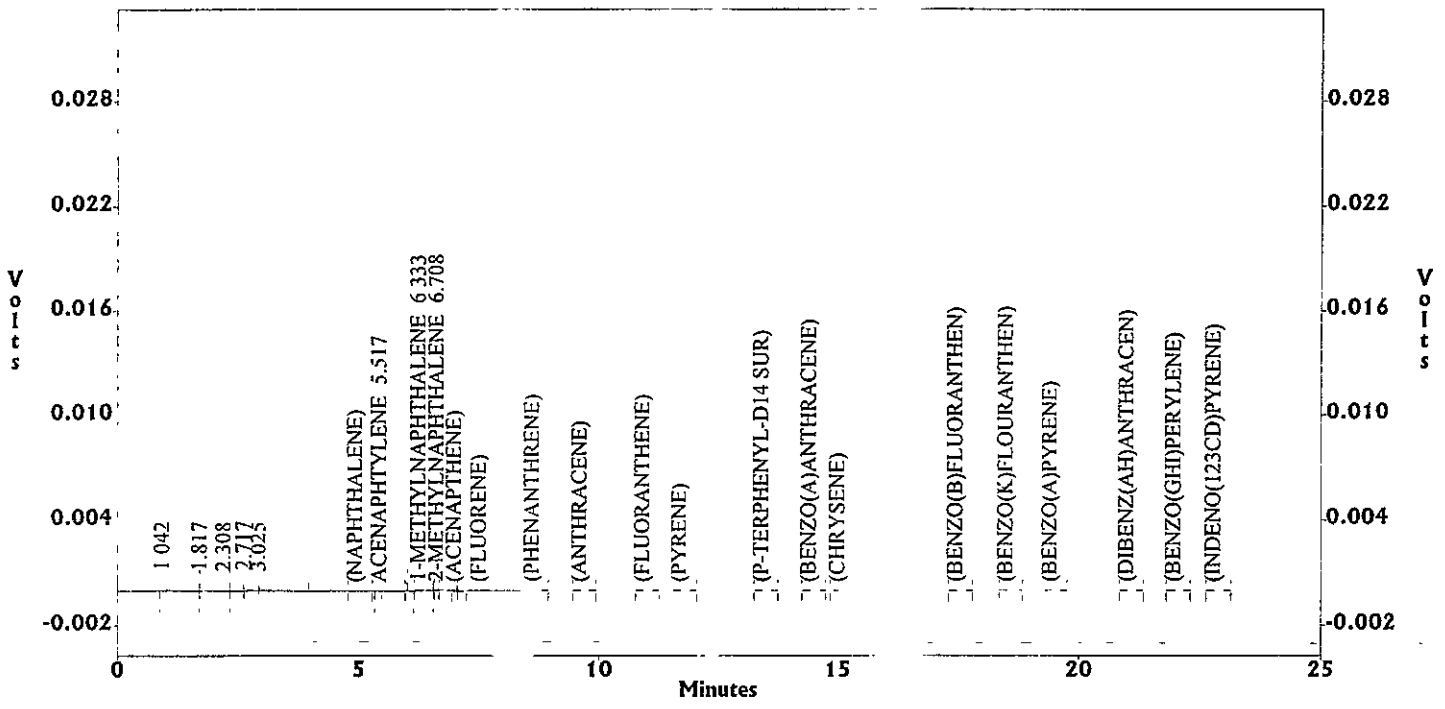
Channel B Results

Name	Time	Area	Conc.
NAPHTHALENE	4.91	5799885	20.22
1-METHYLNAPHT	6.42	7901	0.00
2-METHYLNAPHT	6.70	0	0.00
ACENAPTHENE	7.27	13628614	16.25
FLUORENE	7.59	6580364	20.21
PHENANTHRENE	8.68	4187593	21.16
ANTHRACENE	9.73	2800871	20.97
FLUORANTHENE	10.98	2931009	21.00
PYRENE	11.77	11318958	20.61
P-TERPHENYL-D	13.44	19956	0.05
BENZO(A)ANTHR	14.80	17530794	10.26
CHRYSENE	15.40	19675304	7.70
BENZO(B)FLUOR	17.77	15699009	16.30
BENZO(K)FLUOR	18.94	25765960	4.33
BENZO(A)PYREN	19.75	20521086	7.93
DIBENZ(AH)ANT	21.40	15049605	18.84
BENZO(GHI)PER	22.32	18131648	18.13
INDENO(123CD)	23.17	4797876	31.67

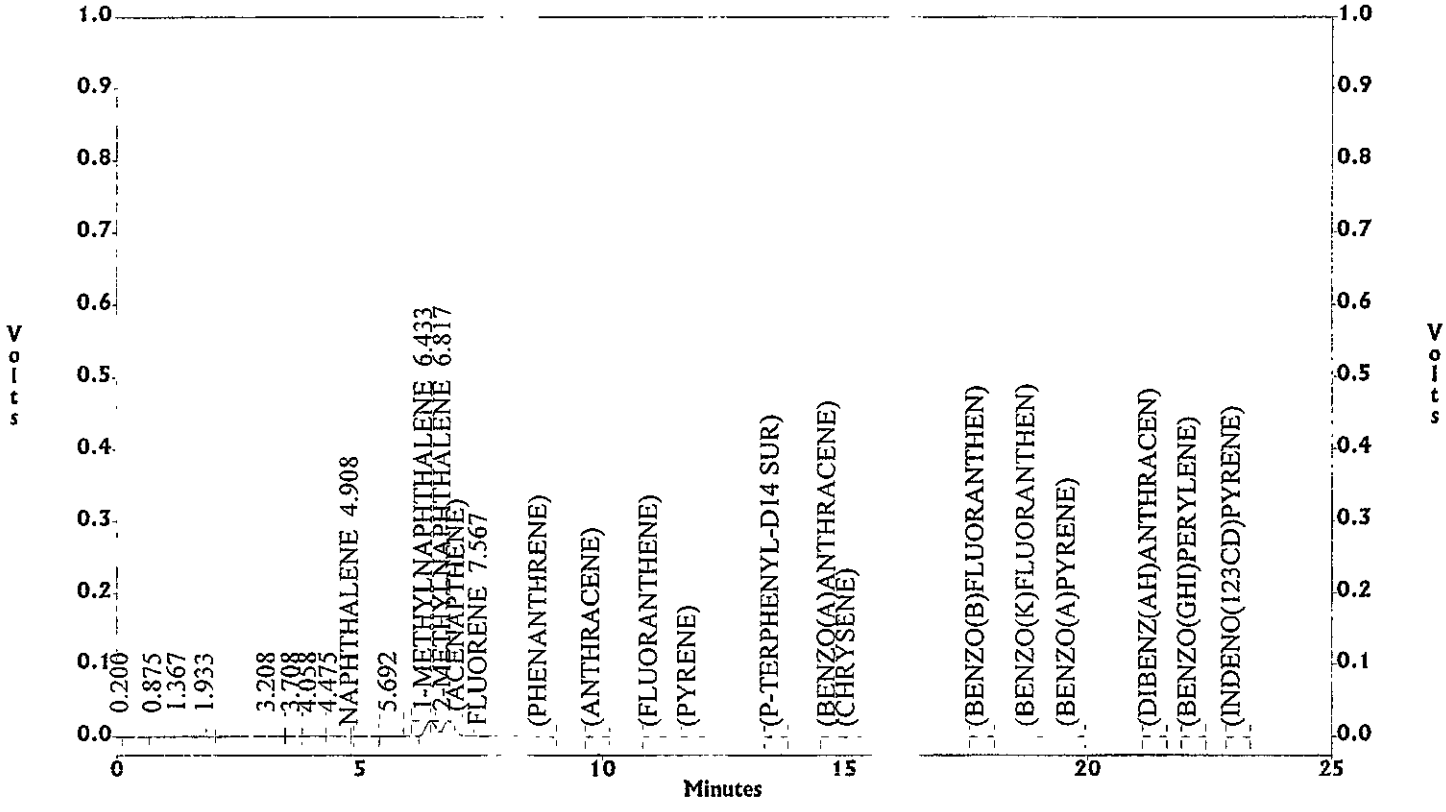
HPLC 1

File : c:\ezchromb\chrom\1227hp3.002
Method : c:\ezchromb\methods\lc1\13ph1204.met
Sample ID : .5 1,2m-naph
Acquired : Dec 27, 2000 06:00:06
Printed : Jan 05, 2001 14:09:10
User : System

c:\ezchromb\chrom\1227hp3.002 -- Channel A



c:\ezchromb\chrom\1227hp3.002 -- Channel B



HPLC 1

File : c:\ezchromb\chrom\1227hp3.002
Method : c:\ezchromb\methods\lc1\l3ph1204.met
Sample ID : .5 1,2m-naph
Acquired : Dec 27, 2000 06:00:06
Printed : Jan 05, 2001 14:09:10
User : System

Channel A Results

Peak Name	Time	Area	Conc.
NAPHTHALENE	5.02	0	0.00
ACENAPHTYLENE	5.52	179	0.14
1-METHYLNAPHT	6.33	553	0.54
2-METHYLNAPHT	6.71	850	0.52
ACENAPTHENE	7.08	0	0.00
FLUORENE	7.60	0	0.00
PHENANTHRENE	8.70	0	0.00
ANTHRACENE	9.70	0	0.00
FLUORANTHENE	11.02	0	0.00
PYRENE	11.80	0	0.00
P-TERPHENYL-D	13.50	0	0.00
BENZO(A)ANTHR	14.50	0	0.00
CHRYSENE	15.10	0	0.00
BENZO(B)FLUOR	17.55	0	0.00
BENZO(K)FLOUR	18.59	0	0.00
BENZO(A)PYREN	19.51	0	0.00
DIBENZ(AH)ANT	21.10	0	0.00
BENZO(GHI)PER	22.08	0	0.00
INDENO(123CD)	22.90	0	0.00

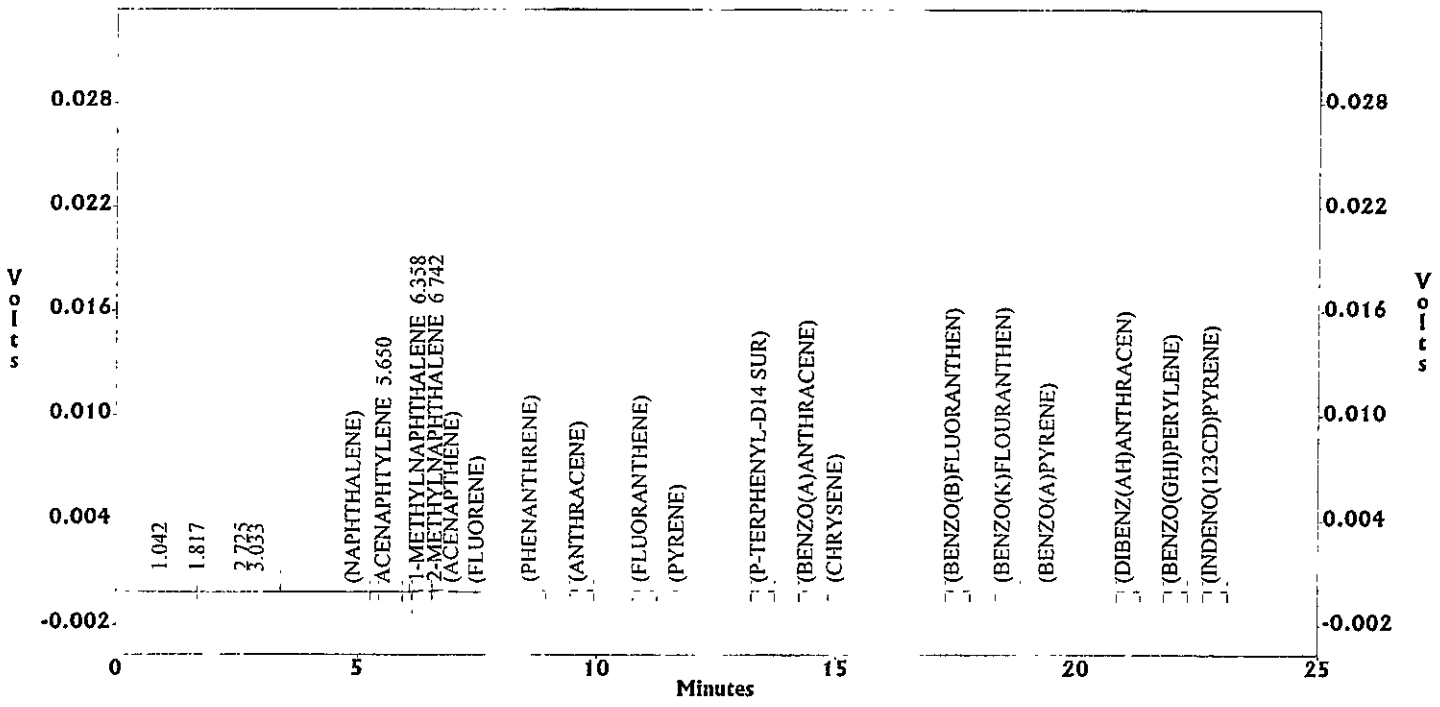
Channel B Results

Name	Time	Area	Conc.
NAPHTHALENE	4.91	4217	0.04
1-METHYLNAPHT	6.43	220126	0.49
2-METHYLNAPHT	6.82	223839	0.43
ACENAPTHENE	7.10	0	0.00
FLUORENE	7.57	2703	0.06
PHENANTHRENE	8.80	0	0.00
ANTHRACENE	9.90	0	0.00
FLUORANTHENE	11.10	0	0.00
PYRENE	11.90	0	0.00
P-TERPHENYL-D	13.60	0	0.00
BENZO(A)ANTHR	14.78	0	0.00
CHRYSENE	15.17	0	0.00
BENZO(B)FLUOR	17.83	0	0.00
BENZO(K)FLUOR	18.86	0	0.00
BENZO(A)PYREN	19.70	0	0.00
DIBENZ(AH)ANT	21.39	0	0.00
BENZO(GHI)PER	22.19	0	0.00
INDENO(123CD)	23.09	0	0.00

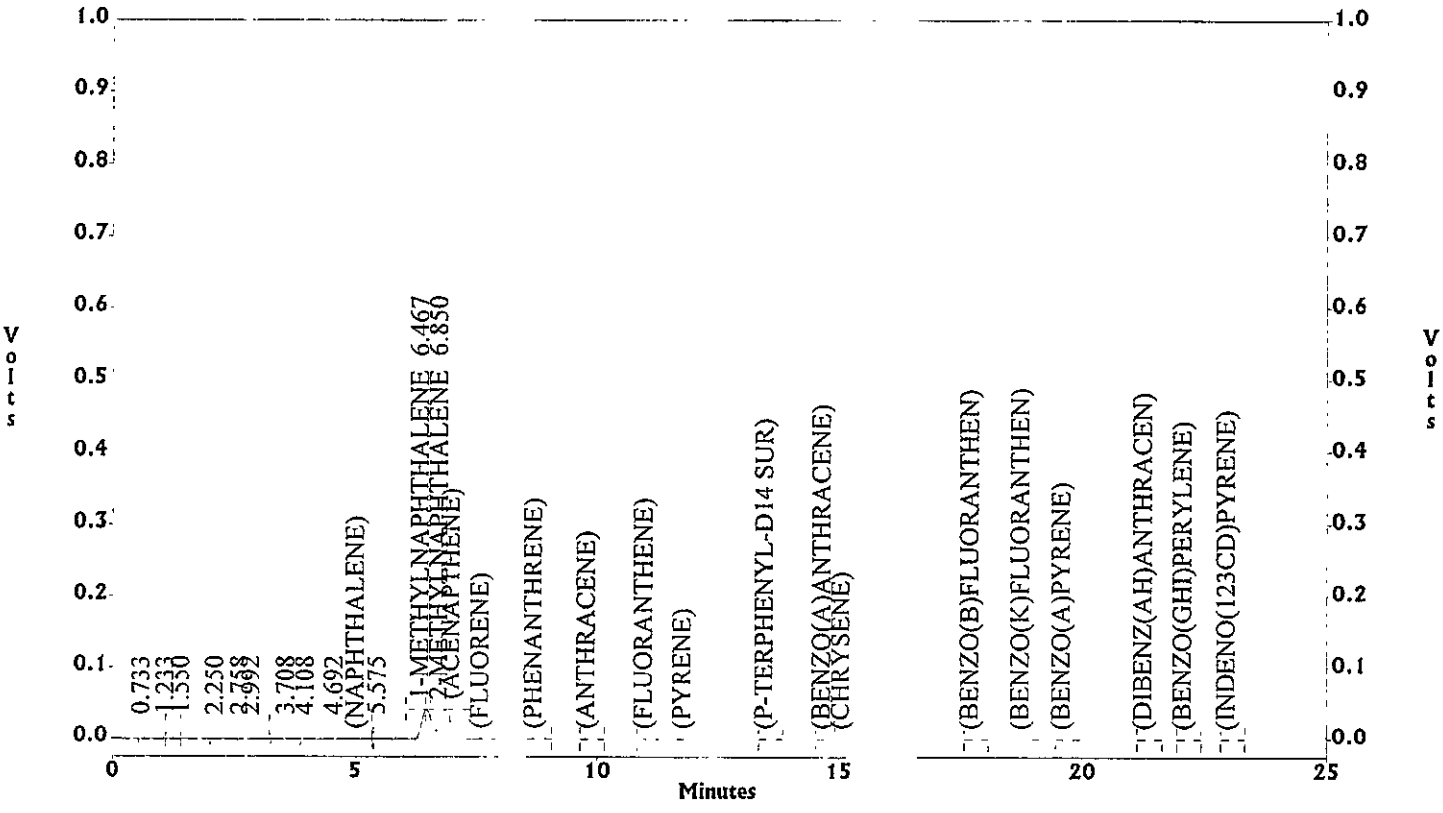
HPLC 1

File : c:\ezchromb\chrom\1227hp3.003
Method : c:\ezchromb\methods\lc1\13ph1204.met
Sample ID : 1.0 1,2m-naph
Acquired : Dec 27, 2000 06:11:10
Printed : Jan 05, 2001 14:09:12
User : System

c:\ezchromb\chrom\1227hp3.003 -- Channel A



c:\ezchromb\chrom\1227hp3.003 -- Channel B



HPLC 1

File : c:\ezchromb\chrom\1227hp3.003
Method : c:\ezchromb\methods\lc1\l3phl204.met
Sample ID : 1.0 1,2m-naph
Acquired : Dec 27, 2000 06:11:10
Printed : Jan 05, 2001 14:09:12
User : System

Channel A Results

Peak Name	Time	Area	Conc.
NAPHTHALENE	5.02	0	0.00
ACENAPHTYLENE	5.65	240	0.19
1-METHYLNAPHT	6.36	996	0.97
2-METHYLNAPHT	6.74	1618	1.00
ACENAPTHENE	7.08	0	0.00
FLUORENE	7.60	0	0.00
PHENANTHRENE	8.70	0	0.00
ANTHRACENE	9.70	0	0.00
FLUORANTHENE	11.02	0	0.00
PYRENE	11.80	0	0.00
P-TERPHENYL-D	13.50	0	0.00
BENZO(A)ANTHR	14.50	0	0.00
CHRYSENE	15.10	0	0.00
BENZO(B)FLUOR	17.55	0	0.00
BENZO(K)FLOUR	18.59	0	0.00
BENZO(A)PYREN	19.51	0	0.00
DIBENZ(AH)ANT	21.10	0	0.00
BENZO(GHI)PER	22.08	0	0.00
INDENO(123CD)	22.90	0	0.00

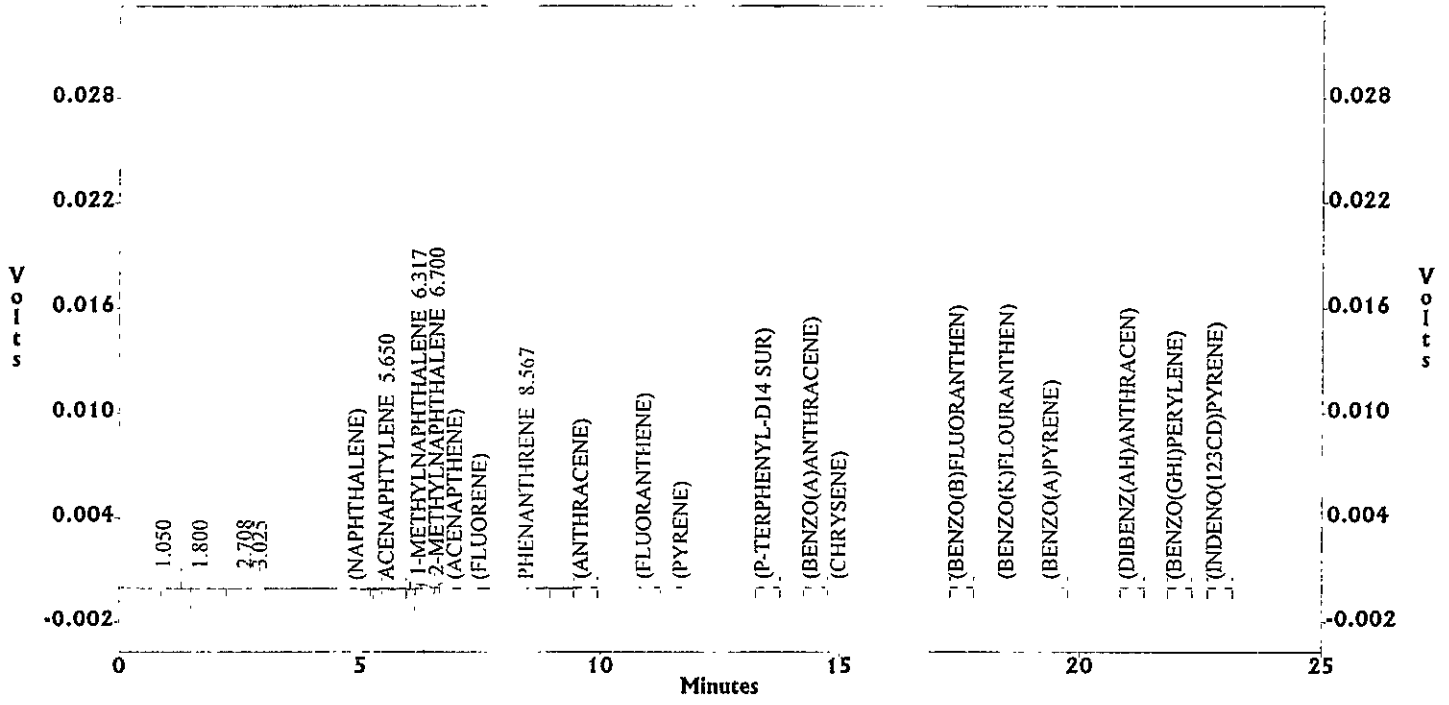
Channel B Results

Name	Time	Area	Conc.
NAPHTHALENE	5.13	0	0.00
1-METHYLNAPHT	6.47	424251	0.99
2-METHYLNAPHT	6.85	428576	0.92
ACENAPTHENE	7.10	0	0.00
FLUORENE	7.70	0	0.00
PHENANTHRENE	8.80	0	0.00
ANTHRACENE	9.90	0	0.00
FLUORANTHENE	11.10	0	0.00
PYRENE	11.90	0	0.00
P-TERPHENYL-D	13.60	0	0.00
BENZO(A)ANTHR	14.78	0	0.00
CHRYSENE	15.17	0	0.00
BENZO(B)FLUOR	17.83	0	0.00
BENZO(K)FLUOR	18.86	0	0.00
BENZO(A)PYREN	19.70	0	0.00
DIBENZ(AH)ANT	21.39	0	0.00
BENZO(GHI)PER	22.19	0	0.00
INDENO(123CD)	23.09	0	0.00

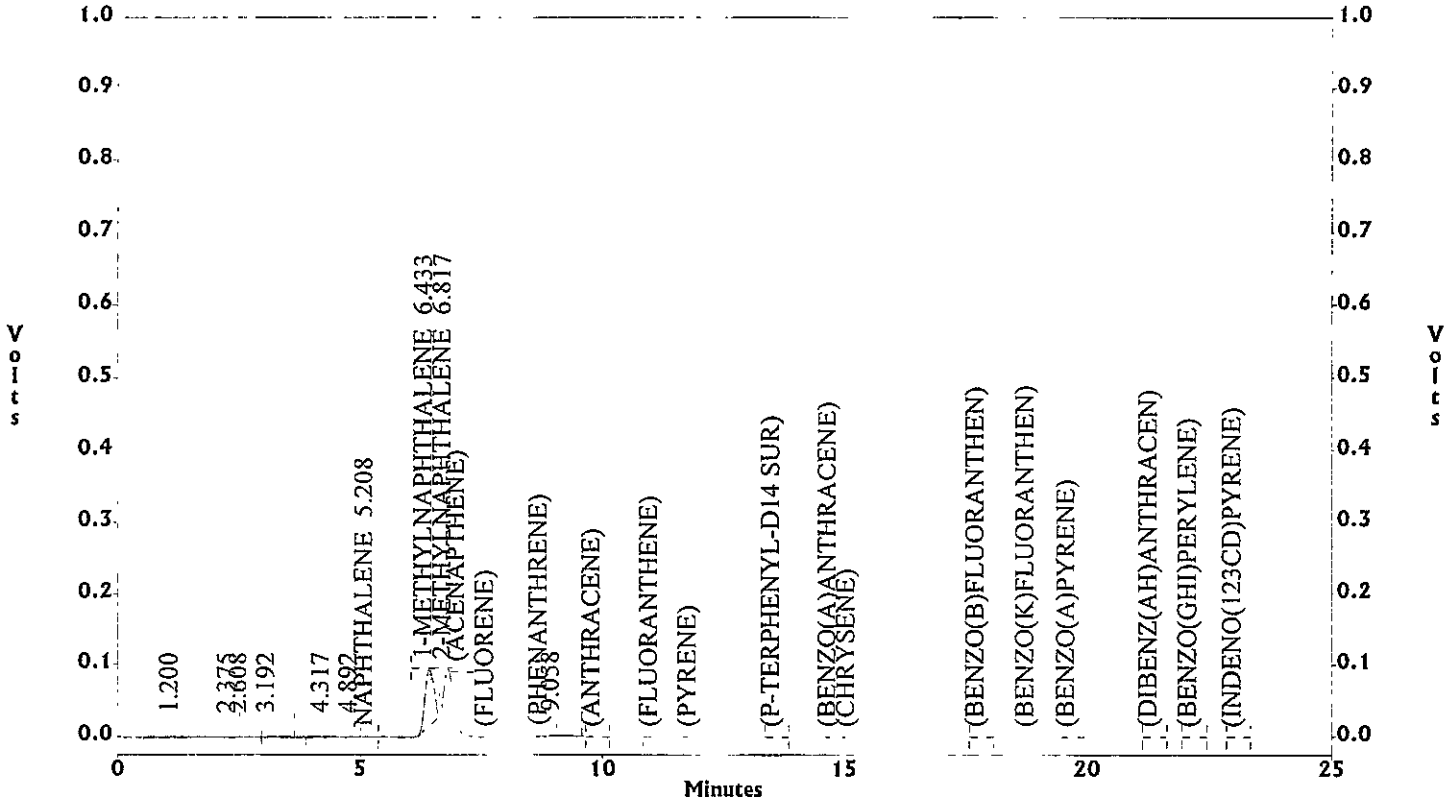
HPLC 1

File : c:\ezchromb\chrom\1227hp3.004
Method : c:\ezchromb\methods\lc1\13ph1204.met
Sample ID : 2.5 1,2m-naph
Acquired : Dec 27, 2000 06:21:51
Printed : Jan 05, 2001 14:09:14
User : System

c:\ezchromb\chrom\1227hp3.004 -- Channel A



c:\ezchromb\chrom\1227hp3.004 -- Channel B



HPLC 1

File : c:\ezchromb\chrom\1227hp3.004
Method : c:\ezchromb\methods\lc1\l3ph1204.met
Sample ID : 2.5 1,2m-naph
Acquired : Dec 27, 2000 06:21:51
Printed : Jan 05, 2001 14:09:14
User : System

Channel A Results

Peak Name	Time	Area	Conc.
NAPHTHALENE	5.02	0	0.00
ACENAPHTYLENE	5.65	589	0.46
1-METHYLNAPHT	6.32	2355	2.30
2-METHYLNAPHT	6.70	3743	2.31
ACENAPTHENE	7.08	0	0.00
FLUORENE	7.60	0	0.00
PHENANTHRENE	8.57	243	0.01
ANTHRACENE	9.70	0	0.00
FLUORANTHENE	11.02	0	0.00
PYRENE	11.80	0	0.00
P-TERPHENYL-D	13.50	0	0.00
BENZO(A)ANTHR	14.50	0	0.00
CHRYSENE	15.10	0	0.00
BENZO(B)FLUOR	17.55	0	0.00
BENZO(K)FLOUR	18.59	0	0.00
BENZO(A)PYREN	19.51	0	0.00
DIBENZ(AH)ANT	21.10	0	0.00
BENZO(GHI)PER	22.08	0	0.00
INDENO(123CD)	22.90	0	0.00

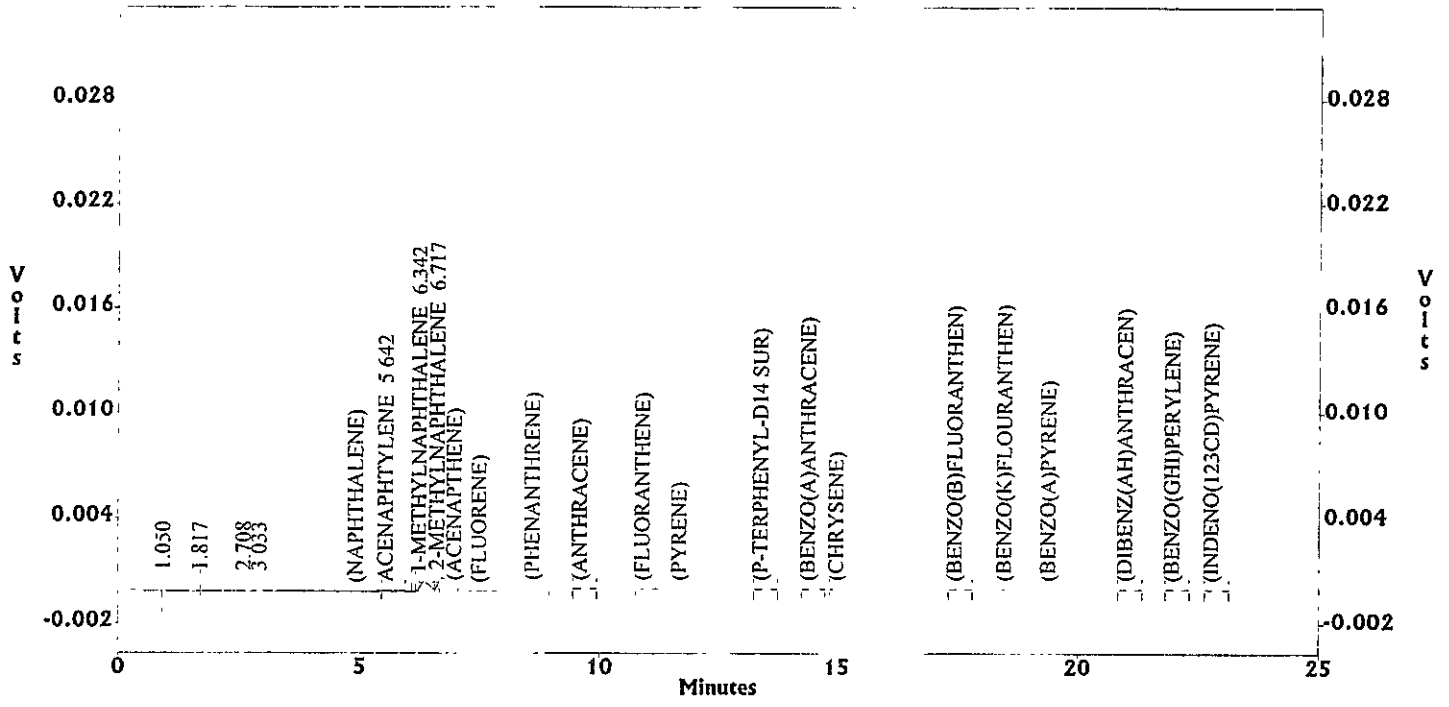
Channel B Results

Name	Time	Area	Conc.
NAPHTHALENE	5.21	10681	0.06
1-METHYLNAPHT	6.43	984159	2.36
2-METHYLNAPHT	6.82	993612	2.29
ACENAPTHENE	7.10	0	0.00
FLUORENE	7.70	0	0.00
PHENANTHRENE	8.80	0	0.00
ANTHRACENE	9.90	0	0.00
FLUORANTHENE	11.10	0	0.00
PYRENE	11.90	0	0.00
P-TERPHENYL-D	13.60	0	0.00
BENZO(A)ANTHR	14.78	0	0.00
CHRYSENE	15.17	0	0.00
BENZO(B)FLUOR	17.83	0	0.00
BENZO(K)FLUOR	18.86	0	0.00
BENZO(A)PYREN	19.70	0	0.00
DIBENZ(AH)ANT	21.39	0	0.00
BENZO(GHI)PER	22.19	0	0.00
INDENO(123CD)	23.09	0	0.00

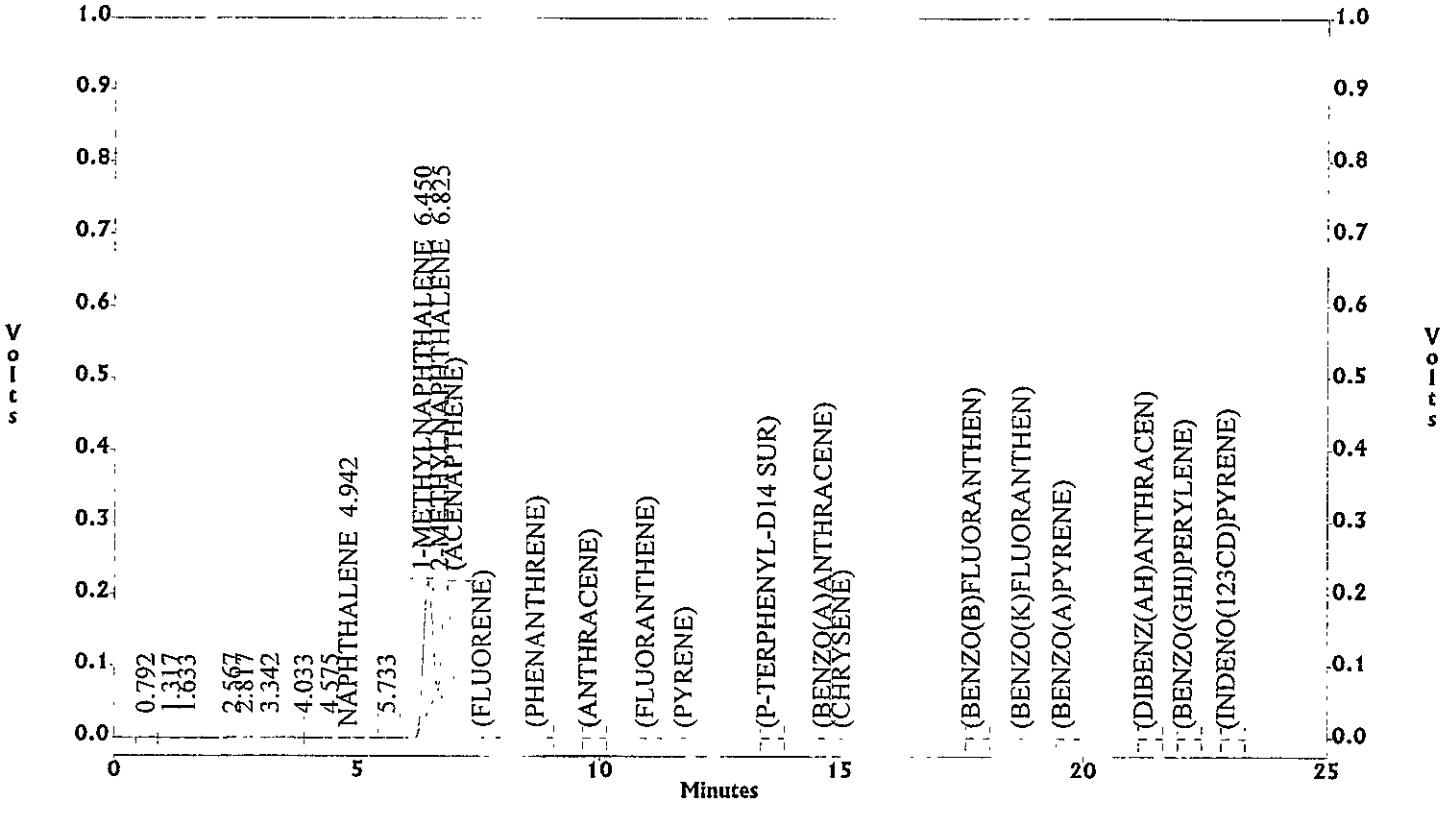
HPLC 1

File : c:\ezchromb\chrom\1227hp3.005
Method : c:\ezchromb\methods\lc1\13ph1204.met
Sample ID : 5.0 1,2m-naph
Acquired : Dec 27, 2000 06:34:44
Printed : Jan 05, 2001 14:09:16
User : System

c:\ezchromb\chrom\1227hp3.005 -- Channel A



c:\ezchromb\chrom\1227hp3.005 -- Channel B



HPLC 1

File : c:\ezchromb\chrom\1227hp3.005
Method : c:\ezchromb\methods\lc1\l3ph1204.met
Sample ID : 5.0 1,2m-naph
Acquired : Dec 27, 2000 06:34:44
Printed : Jan 05, 2001 14:09:16
User : System

Channel A Results

Peak Name	Time	Area	Conc.
NAPHTHALENE	5.02	0	0.00
ACENAPHTYLENE	5.64	1211	0.94
1-METHYLNAPHT	6.34	5495	5.37
2-METHYLNAPHT	6.72	8739	5.38
ACENAPTHENE	7.08	0	0.00
FLUORENE	7.60	0	0.00
PHENANTHRENE	8.70	0	0.00
ANTHRACENE	9.70	0	0.00
FLUORANTHENE	11.02	0	0.00
PYRENE	11.80	0	0.00
P-TERPHENYL-D	13.50	0	0.00
BENZO(A)ANTHR	14.50	0	0.00
CHRYSENE	15.10	0	0.00
BENZO(B)FLUOR	17.55	0	0.00
BENZO(K)FLOUR	18.59	0	0.00
BENZO(A)PYREN	19.51	0	0.00
DIBENZ(AH)ANT	21.10	0	0.00
BENZO(GHI)PER	22.08	0	0.00
INDENO(123CD)	22.90	0	0.00

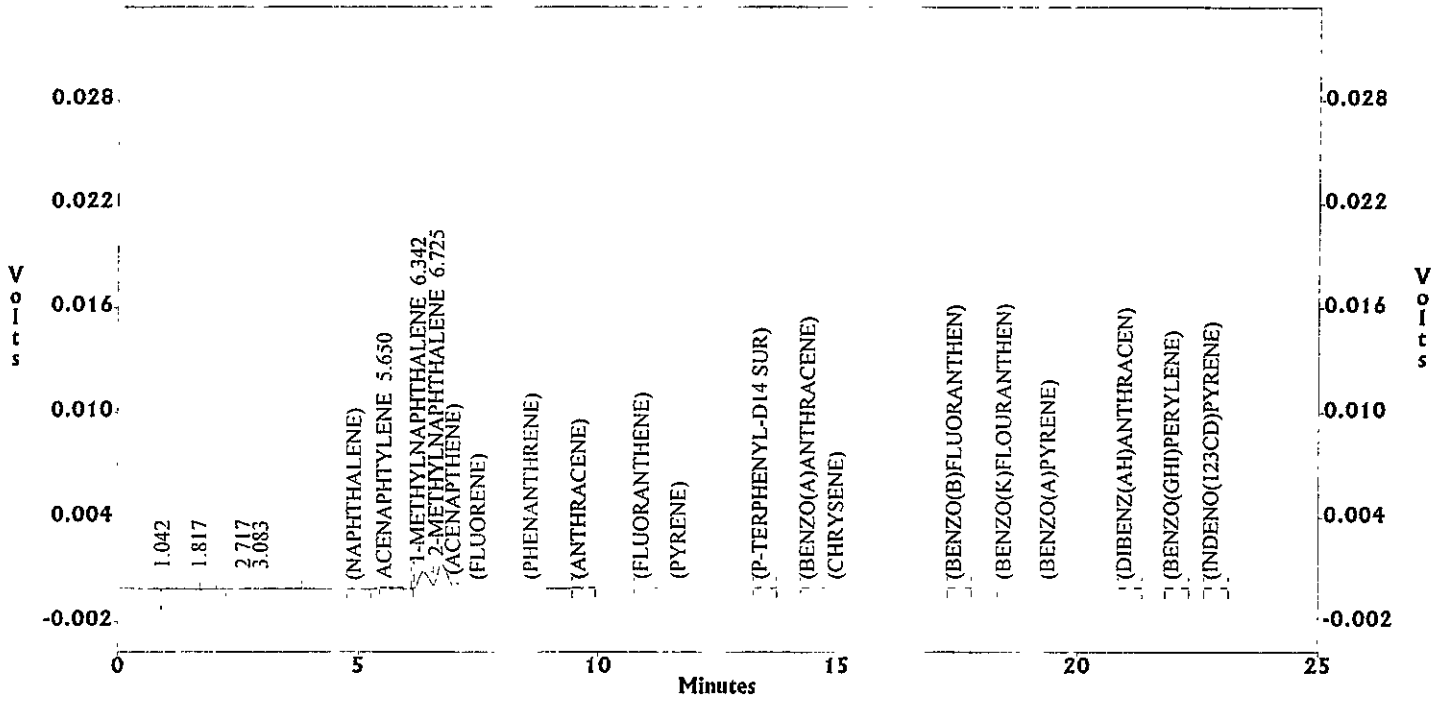
Channel B Results

Name	Time	Area	Conc.
NAPHTHALENE	4.94	4108	0.04
1-METHYLNAPHT	6.45	2276862	5.52
2-METHYLNAPHT	6.82	2296318	5.44
ACENAPTHENE	7.10	0	0.00
FLUORENE	7.70	0	0.00
PHENANTHRENE	8.80	0	0.00
ANTHRACENE	9.90	0	0.00
FLUORANTHENE	11.10	0	0.00
PYRENE	11.90	0	0.00
P-TERPHENYL-D	13.60	0	0.00
BENZO(A)ANTHR	14.78	0	0.00
CHRYSENE	15.17	0	0.00
BENZO(B)FLUOR	17.83	0	0.00
BENZO(K)FLUOR	18.86	0	0.00
BENZO(A)PYREN	19.70	0	0.00
DIBENZ(AH)ANT	21.39	0	0.00
BENZO(GHI)PER	22.19	0	0.00
INDENO(123CD)	23.09	0	0.00

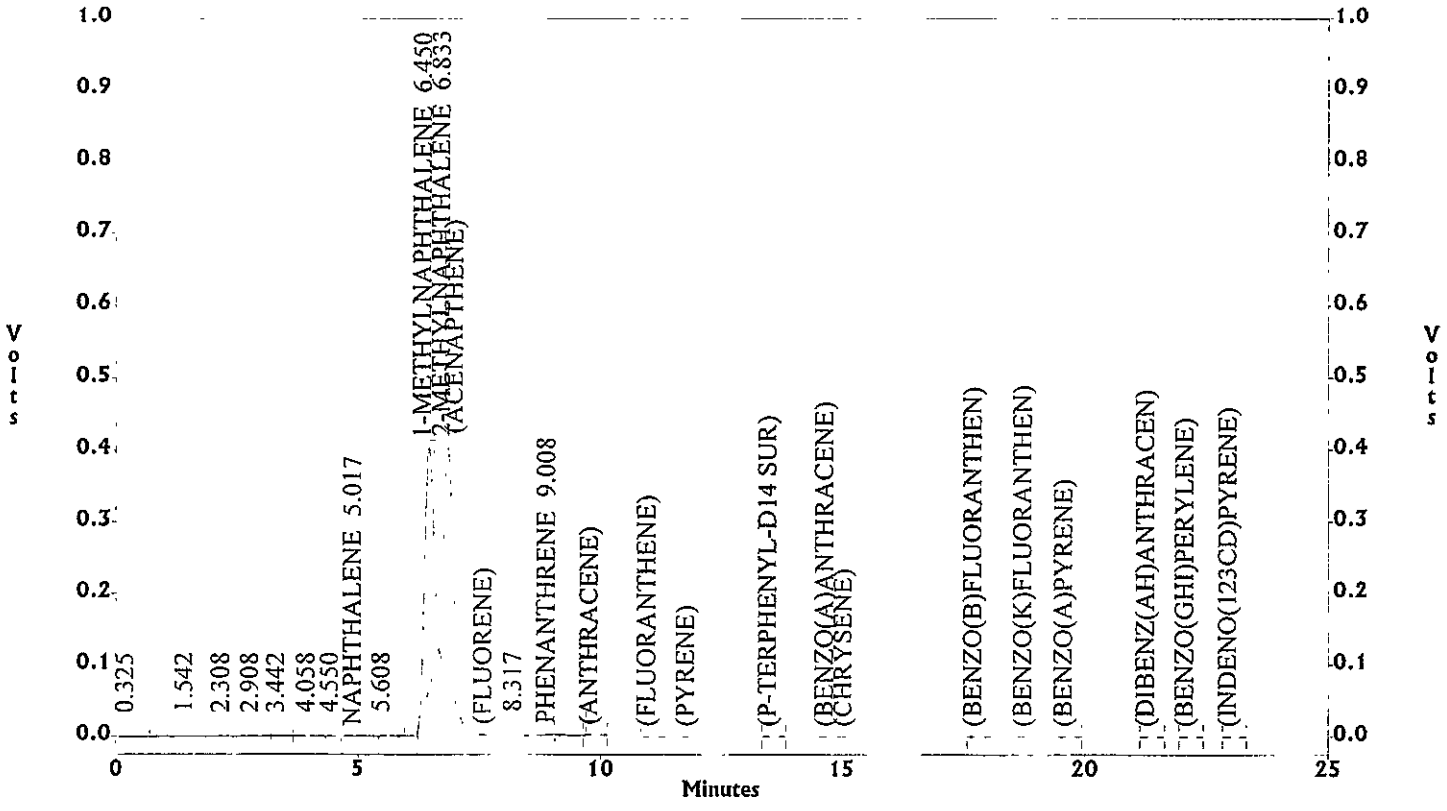
HPLC 1

File : c:\ezchromb\chrom\1227hp3.006
Method : c:\ezchromb\methods\lc1\l3ph1204.met
Sample ID : 10.0 1,2m-naph
Acquired : Dec 27, 2000 06:45:30
Printed : Jan 05, 2001 14:09:17
User : System

c:\ezchromb\chrom\1227hp3.006 -- Channel A



c:\ezchromb\chrom\1227hp3.006 -- Channel B



HPLC 1

File : c:\ezchromb\chrom\1227hp3.006
Method : c:\ezchromb\methods\lc1\l3ph1204.met
Sample ID : 10.0 1,2m-naph
Acquired : Dec 27, 2000 06:45:30
Printed : Jan 05, 2001 14:09:17
User : System

Channel A Results

Peak Name	Time	Area	Conc.
NAPHTHALENE	5.02	0	0.00
ACENAPHTYLENE	5.65	2188	1.69
1-METHYLNAPHT	6.34	10179	9.95
2-METHYLNAPHT	6.72	16172	9.96
ACENAPTHENE	7.08	0	0.00
FLUORENE	7.60	0	0.00
PHENANTHRENE	8.70	0	0.00
ANTHRACENE	9.70	0	0.00
FLUORANTHENE	11.02	0	0.00
PYRENE	11.80	0	0.00
P-TERPHENYL-D	13.50	0	0.00
BENZO(A)ANTHR	14.50	0	0.00
CHRYSENE	15.10	0	0.00
BENZO(B)FLUOR	17.55	0	0.00
BENZO(K)FLOUR	18.59	0	0.00
BENZO(A)PYREN	19.51	0	0.00
DIBENZ(AH)ANT	21.10	0	0.00
BENZO(GHI)PER	22.08	0	0.00
INDENO(123CD)	22.90	0	0.00

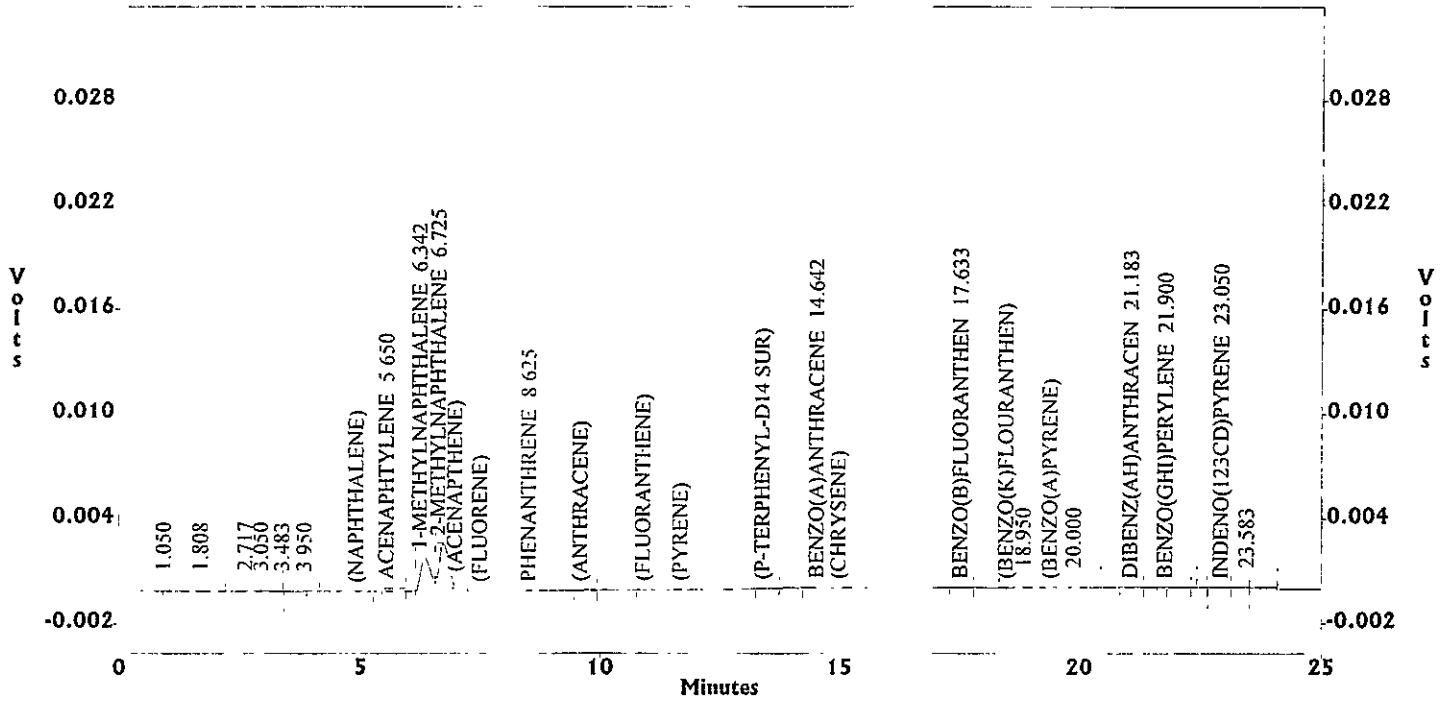
Channel B Results

Name	Time	Area	Conc.
NAPHTHALENE	5.02	6597	0.05
1-METHYLNAPHT	6.45	4196990	10.22
2-METHYLNAPHT	6.83	4276115	10.22
ACENAPTHENE	7.10	0	0.00
FLUORENE	7.70	0	0.00
PHENANTHRENE	9.01	45363	0.14
ANTHRACENE	9.90	0	0.00
FLUORANTHENE	11.10	0	0.00
PYRENE	11.90	0	0.00
P-TERPHENYL-D	13.60	0	0.00
BENZO(A)ANTHR	14.78	0	0.00
CHRYSENE	15.17	0	0.00
BENZO(B)FLUOR	17.83	0	0.00
BENZO(K)FLUOR	18.86	0	0.00
BENZO(A)PYREN	19.70	0	0.00
DIBENZ(AH)ANT	21.39	0	0.00
BENZO(GHI)PER	22.19	0	0.00
INDENO(123CD)	23.09	0	0.00

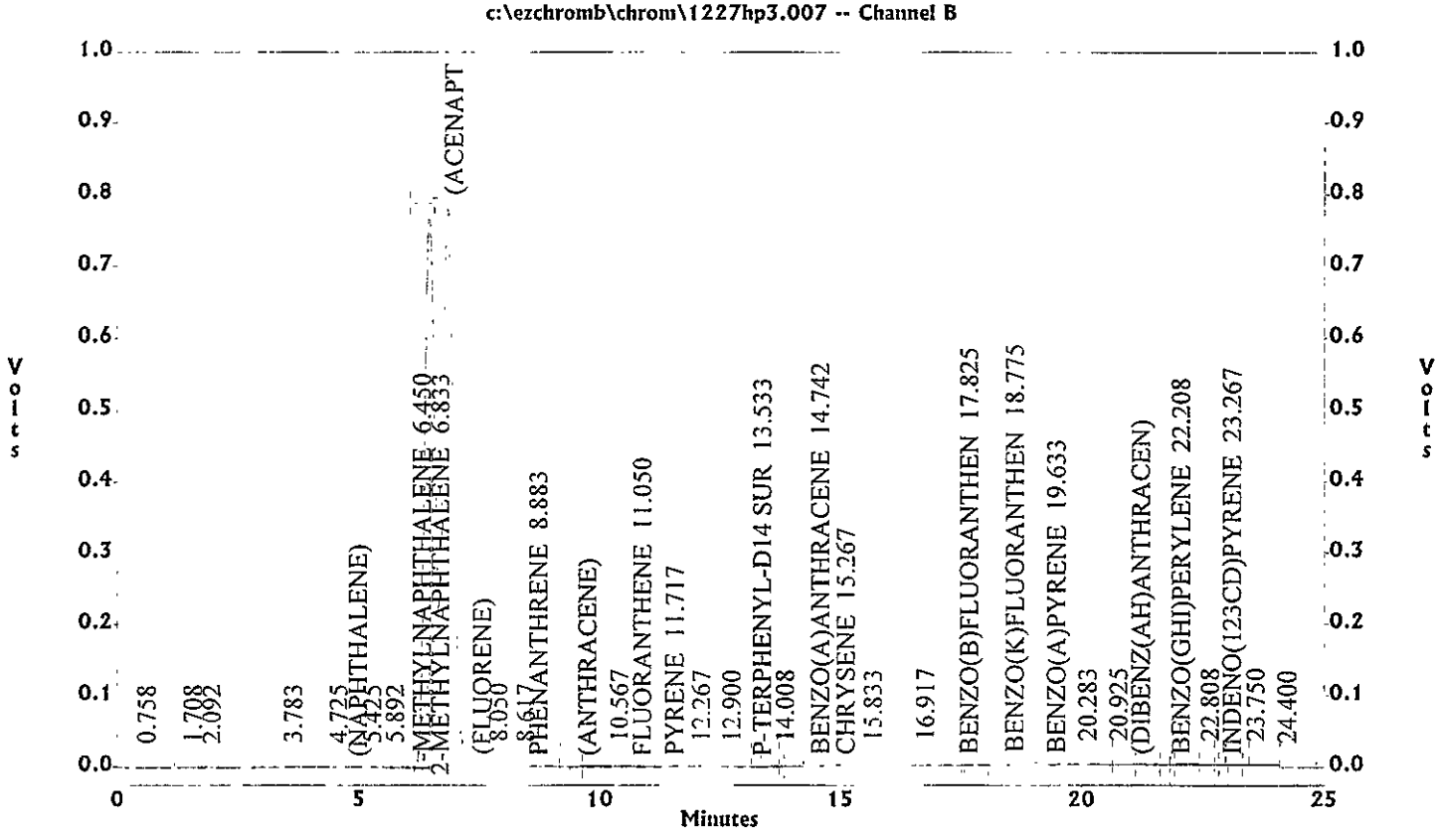
HPLC 1

File : c:\ezchromb\chrom\1227hp3.007
Method : c:\ezchromb\methods\lc1\l3ph1204.met
Sample ID : 20.0 1,2m-naph
Acquired : Dec 27, 2000 06:58:03
Printed : Jan 05, 2001 14:09:20
User : System

c:\ezchromb\chrom\1227hp3.007 -- Channel A



c:\ezchromb\chrom\1227hp3.007 -- Channel B



HPLC 1

File : c:\ezchromb\chrom\1227hp3.007
Method : c:\ezchromb\methods\lc1\l3ph1204.met
Sample ID : 20.0 1,2m-naph
Acquired : Dec 27, 2000 06:58:03
Printed : Jan 05, 2001 14:09:20
User : System

Channel A Results

Peak Name	Time	Area	Conc.
NAPHTHALENE	5.02	0	0.00
ACENAPHTYLENE	5.65	4091	3.17
1-METHYLNAPHT	6.34	19537	19.10
2-METHYLNAPHT	6.72	31151	19.19
ACENAPTHENE	7.08	0	0.00
FLUORENE	7.60	0	0.00
PHENANTHRENE	8.63	149	0.01
ANTHRACENE	9.70	0	0.00
FLUORANTHENE	11.02	0	0.00
PYRENE	11.80	0	0.00
P-TERPHENYL-D	13.50	0	0.00
BENZO(A)ANTHR	14.64	5772	0.46
CHRYSENE	15.10	0	0.00
BENZO(B)FLUOR	17.63	1392	0.09
BENZO(K)FLOUR	18.59	0	0.00
BENZO(A)PYREN	19.51	0	0.00
DIBENZ(AH)ANT	21.18	319	0.13
BENZO(GHI)PER	21.90	225	0.06
INDENO(123CD)	23.05	207	0.05

Channel B Results

Name	Time	Area	Conc.
NAPHTHALENE	5.13	0	0.00
1-METHYLNAPHT	6.45	8094628	19.76
2-METHYLNAPHT	6.83	8238449	19.80
ACENAPTHENE	7.10	0	0.00
FLUORENE	7.70	0	0.00
PHENANTHRENE	8.88	3782	0.00
ANTHRACENE	9.90	0	0.00
FLUORANTHENE	11.05	3545	0.00
PYRENE	11.72	28662	0.04
P-TERPHENYL-D	13.53	5453	0.00
BENZO(A)ANTHR	14.74	20194	0.03
CHRYSENE	15.27	30826	0.02
BENZO(B)FLUOR	17.83	20361	0.00
BENZO(K)FLUOR	18.77	50180	0.00
BENZO(A)PYREN	19.63	19488	0.03
DIBENZ(AH)ANT	21.39	0	0.00
BENZO(GHI)PER	22.21	10539	0.00
INDENO(123CD)	23.27	1851	0.02

7C

8310 PAH CONTINUING CALIBRATION CHECK

Lab Name:	Test America	**Calibration Date:**	12/04/00
SDG #	220787	**Cont. Calib. Date:**	1/4/00
Instrument ID:	HPLC 3	**Lab File ID:**	0104HP3.020

UV CHANNEL

COMPOUND	known	actual		%D	MAX %D
Napthalene	1.00	1.15		14.0	15.0
Acenapthylene	1.00	1.28		24.6	15.0
1-Methyl-naphthalene	1.00	0.84		17.4	15.0
2-Methyl-naphthalene	1.00	0.93		7.3	15.0
Acenapthene	1.00	0.64		43.9	15.0
Flourene	1.00	1.06		5.8	15.0
Phenanthrene	1.00	1.06		5.8	15.0
Anthracene	1.00	1.06		5.8	15.0
Flouranthene	1.00	1.08		7.7	15.0
Pyrene	1.00	1.01		1.0	15.0
Benzo(a)anthracene	1.00	1.05		4.9	15.0
Chrysene	1.00	1.23		20.6	15.0
Benzo(b)flouranthene	1.00	0.99		1.0	15.0
Benzo(k)flouranthene	1.00	1.03		3.0	15.0
Benzo(a)pyrene	1.00	1.01		1.0	15.0
Dibenz(ah)anthracene	1.00	1.26		23.0	15.0
Benzo(ghi)Perylene	1.00	1.02		2.0	15.0
Indeno(123cd)pyrene	1.00	1.00		0.0	15.0

AVERAGE: 10.48

FORM VII SV 3/90

7C

8310 PAH CONTINUING CALIBRATION CHECK

Lab Name:	Test America	**Calibration Date:**	12/04/00
SDG #	220787	**Cont. Calib. Date:**	1/4/00
Instrument ID:	HPLC 3	**Lab File ID:**	0104HP3.020

FLOURECENCE CHANNEL

COMPOUND	known	actual		%D	MAX %D
Napthalene	1.00	0.95		5.1	15.0
1-Methyl-naphthalene	1.00	0.95		5.1	15.0
2-Methyl-naphthalene	1.00	0.73		31.2	15.0
Acenapthene	1.00	0.87		13.9	15.0
Flourene	1.00	0.89		11.6	15.0
Phenanthrene	1.00	1.13		12.2	15.0
Anthracene	1.00	0.82		19.8	15.0
Flouranthene	1.00	1.14		13.1	15.0
Pyrene	1.00	1.01		1.0	15.0
Benzo(a)anthracene	1.00	1.09		8.6	15.0
Chrysene	1.00	1.09		8.6	15.0
Benzo(b)flouranthene	1.00	0 99		1.0	15.0
Benzo(k)flouranthene	1.00	1.15		14.0	15.0
Benzo(a)pyrene	1.00	0.87		13.9	15.0
Dibenz(ah)anthracene	1.00	1.00		0.0	15.0
Benzo(ghi)Perylene	1.00	0.92		8.3	15.0
Indeno(123cd)pyrene	1.00	1.46		37.4	15.0

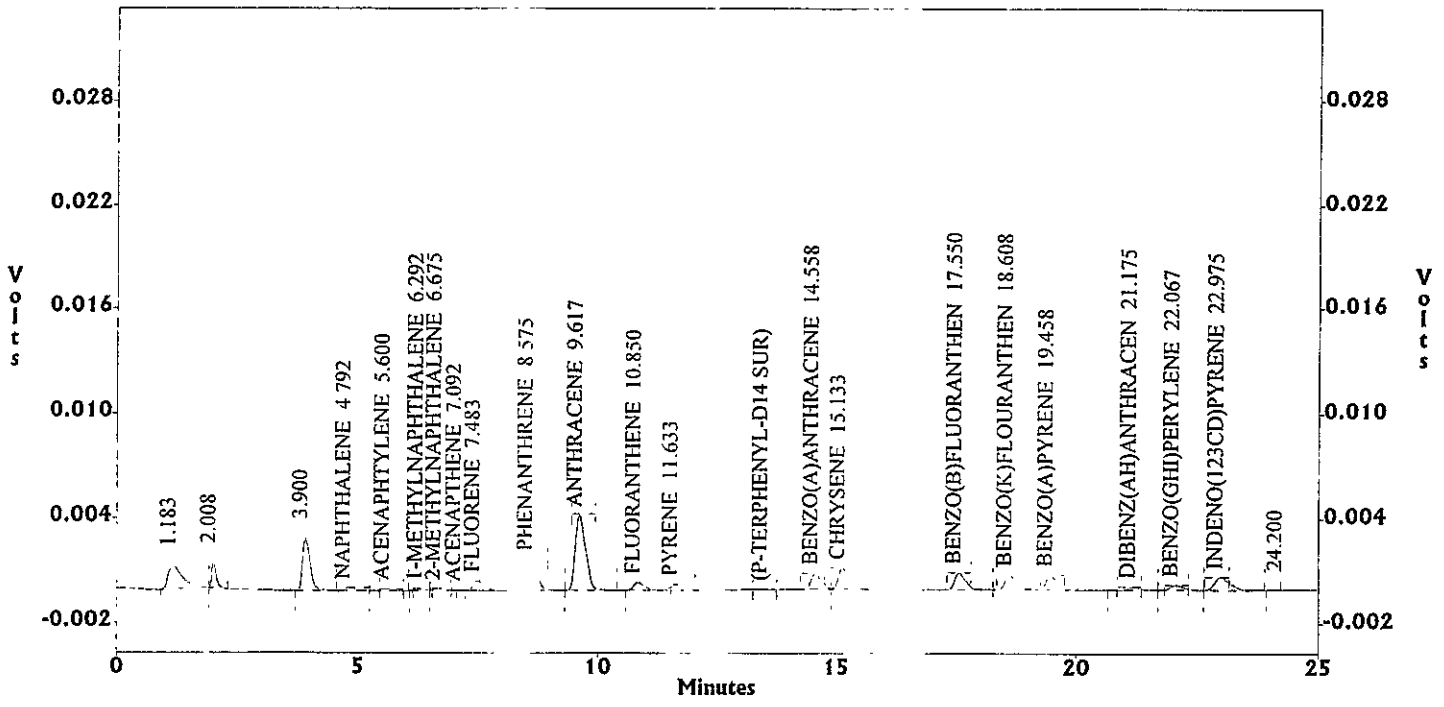
AVERAGE: 12.05

FORM VII SV 3/90

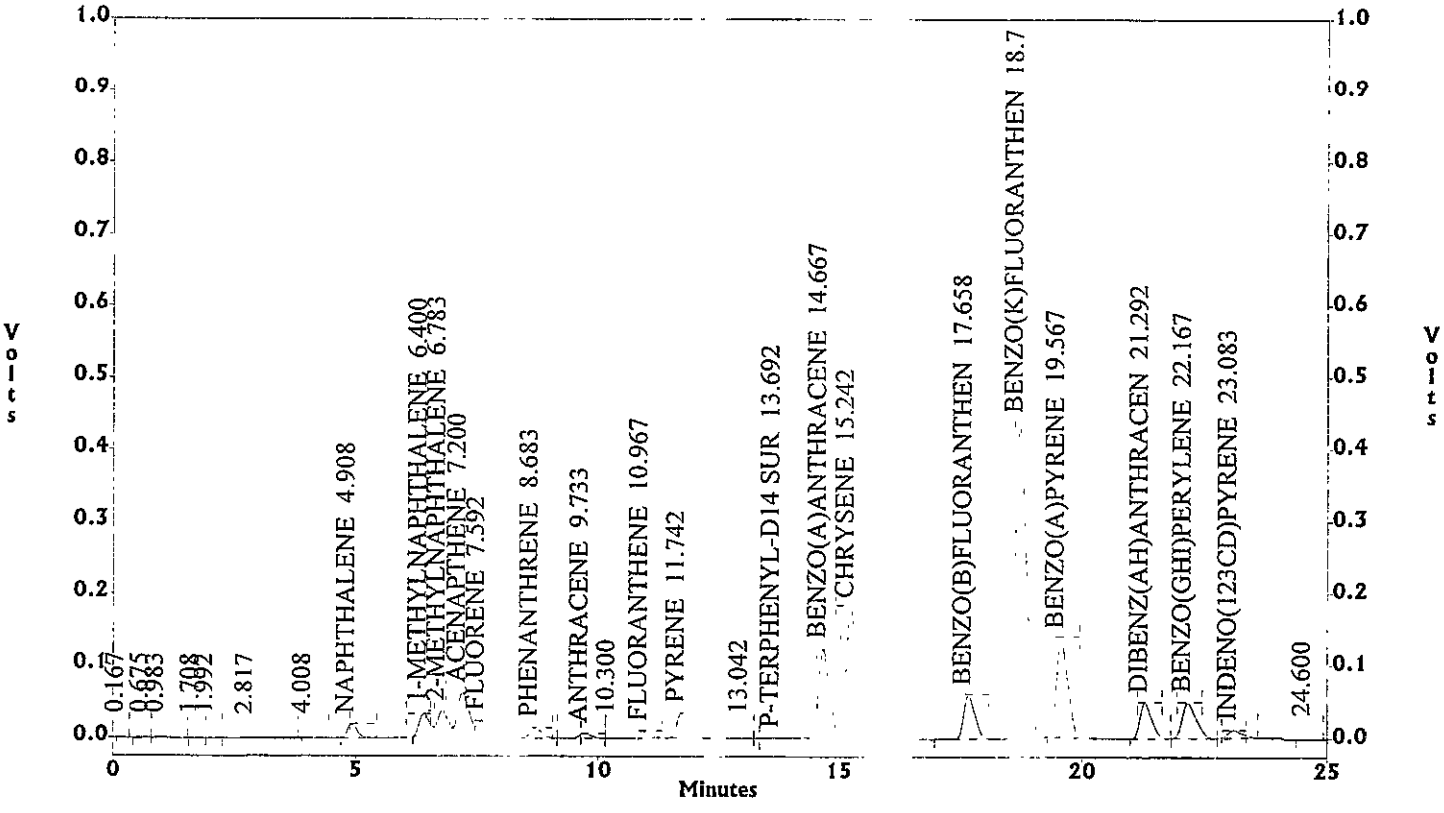
HPLC 1

File : c:\ezchromb\chrom\0104hp3.020
Method : c:\ezchromb\methods\lc1\l3ph1204.met
Sample ID : 1.0ppm(5-w-sn-84-2)
Acquired : Jan 04, 2001 17:29:20
Printed : Jan 05, 2001 07:40:20
User : System

c:\ezchromb\chrom\0104hp3.020 -- Channel A



c:\ezchromb\chrom\0104hp3.020 -- Channel B



HPLC 1

File : c:\ezchromb\chrom\0104hp3.020
Method : c:\ezchromb\methods\lc1\l3ph1204.met
Sample ID : 1.0ppm(5-w-sn-84-2)
Acquired : Jan 04, 2001 17:29:20
Printed : Jan 05, 2001 07:40:20
User : System

Channel A Results

Peak Name	Time	Area	Conc.
NAPHTHALENE	4.79	2244	1.15
ACENAPHTYLENE	5.60	1651	1.28
1-METHYLNAPHT	6.29	861	0.84
2-METHYLNAPHT	6.68	1512	0.93
ACENAPTHENE	7.09	353	0.64
FLUORENE	7.48	8509	1.06
PHENANTHRENE	8.57	27244	1.06
ANTHRACENE	9.62	64486	1.06
FLUORANTHENE	10.85	6296	1.08
PYRENE	11.63	5134	1.01
P-TERPHENYL-D	13.50	0	0.00
BENZO(A)ANTHR	14.56	13053	1.05
CHRYSENE	15.13	17749	1.23
BENZO(B)FLUOR	17.55	14666	0.99
BENZO(K)FLOUR	18.61	12955	1.03
BENZO(A)PYREN	19.46	12890	1.01
DIBENZ(AH)ANT	21.17	3199	1.26
BENZO(GHI)PER	22.07	5270	1.02
INDENO(123CD)	22.98	15684	1.00

Channel B Results

Name	Time	Area	Conc.
NAPHTHALENE	4.91	267088	0.95
1-METHYLNAPHT	6.40	409741	0.95
2-METHYLNAPHT	6.78	347639	0.73
ACENAPTHENE	7.20	745246	0.87
FLUORENE	7.59	271265	0.89
PHENANTHRENE	8.68	241443	1.13
ANTHRACENE	9.73	116512	0.82
FLUORANTHENE	10.97	165235	1.14
PYRENE	11.74	563594	1.01
P-TERPHENYL-D	13.69	19765	0.05
BENZO(A)ANTHR	14.67	1832777	1.09
CHRYSENE	15.24	2763760	1.09
BENZO(B)FLUOR	17.66	977409	0.99
BENZO(K)FLUOR	18.72	6947634	1.15
BENZO(A)PYREN	19.57	2219997	0.87
DIBENZ(AH)ANT	21.29	821892	1.00
BENZO(GHI)PER	22.17	941037	0.92
INDENO(123CD)	23.08	219887	1.46

7C

8310 PAH CONTINUING CALIBRATION CHECK

Lab Name:	Test America	**Calibration Date:**	12/04/00
SDG #	220787	**Cont. Calib. Date:**	1/4/00
Instrument ID:	HPLC 3	**Lab File ID:**	0104HP3.031

UV CHANNEL

COMPOUND	known	actual		%D	MAX %D
Napthalene	1.00	1.19		17.4	15.0
Acenapthylene	1.00	1.57		44.4	15.0
1-Methyl-naphthalene	1.00	0.88		12.8	15.0
2-Methyl-naphthalene	1.00	0.91		9.4	15.0
Acenapthene	1.00	0.60		50.0	15.0
Flourene	1.00	1.07		6.8	15.0
Phenanthrene	1.00	1.08		7.7	15.0
Anthracene	1.00	1.08		7.7	15.0
Flouranthene	1.00	1.09		8.6	15.0
Pyrene	1.00	1.01		1.0	15.0
Benzo(a)anthracene	1.00	1.07		6.8	15.0
Chrysene	1.00	1.27		23.8	15.0
Benzo(b)flouranthene	1.00	1.02		2.0	15.0
Benzo(k)flouranthene	1.00	1.05		4.9	15.0
Benzo(a)pyrene	1.00	1.01		1.0	15.0
Dibenz(ah)anthracene	1.00	1.28		24.6	15.0
Benzo(ghi)Perylene	1.00	1.03		3.0	15.0
Indeno(123cd)pyrene	1.00	1.01		1.0	15.0

AVERAGE: 12.92

FORM VII SV 3/90

7C

8310 PAH CONTINUING CALIBRATION CHECK

Lab Name:	Test America	**Calibration Date:**	12/04/00
SDG #	220787	**Cont. Calib. Date:**	1/4/00
Instrument ID:	HPLC 3	**Lab File ID:**	0104HP3.031

FLOURECENCE CHANNEL

COMPOUND	known	actual		%D	MAX %D
Napthalene	1.00	1.14		13.1	15.0
1-Methyl-naphthalene	1.00	0.95		5.1	15.0
2-Methyl-naphthalene	1.00	0.78		24.7	15.0
Acenapthene	1.00	0.84		17.4	15.0
Flourene	1.00	0.97		3.0	15.0
Phenanthrene	1.00	1.27		23.8	15.0
Anthracene	1.00	1.03		3.0	15.0
Flouranthene	1.00	1.12		11.3	15.0
Pyrene	1.00	0.95		5.1	15.0
Benzo(a)anthracene	1.00	1.04		3.9	15.0
Chrysene	1.00	1.10		9.5	15.0
Benzo(b)flouranthene	1.00	1.07		6.8	15.0
Benzo(k)flouranthene	1.00	1.15		14.0	15.0
Benzo(a)pyrene	1.00	0.97		3.0	15.0
Dibenz(ah)anthracene	1.00	1.10		9.5	15.0
Benzo(ghi)Perylene	1.00	0.98		2.0	15.0
Indeno(123cd)pyrene	1.00	1.46		37.4	15.0

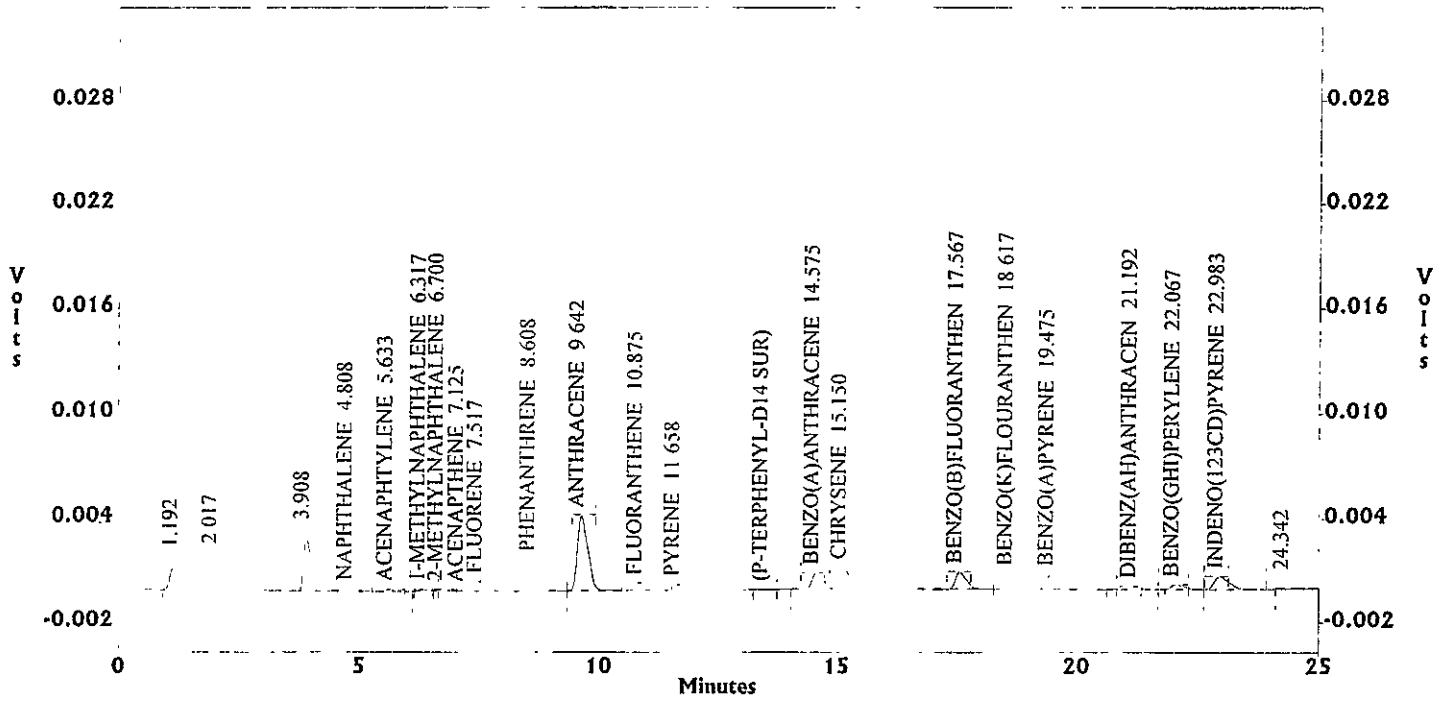
AVERAGE: 11.34

FORM VII SV 3/90

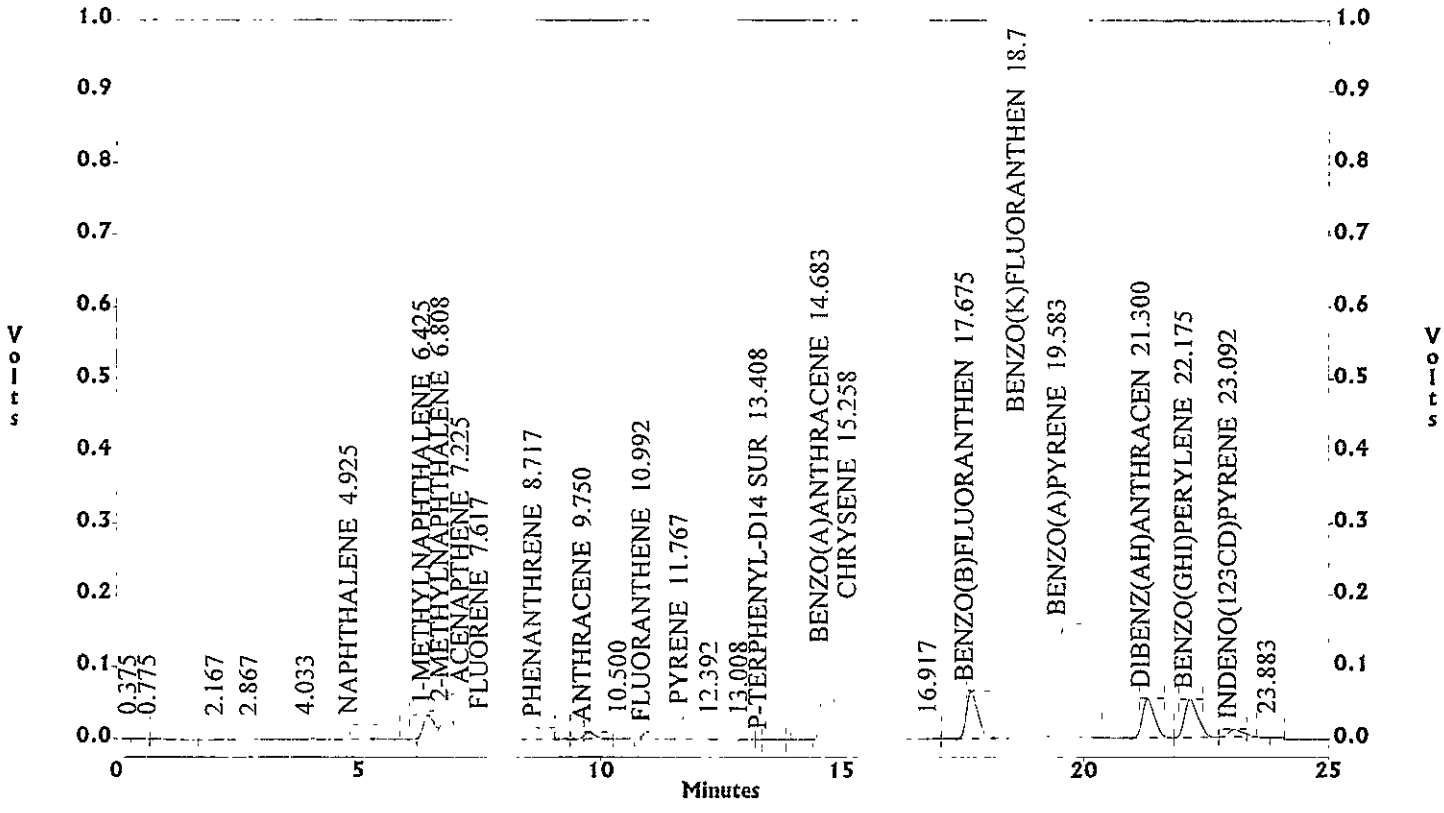
HPLC 1

File : c:\ezchromb\chrom\0104hp3.031
Method : c:\ezchromb\methods\lc1\l3ph1204.met
Sample ID : 1.0ppm(5-w-sn-84-2)
Acquired : Jan 04, 2001 22:17:55
Printed : Jan 05, 2001 07:40:52
User : System

c:\ezchromb\chrom\0104hp3.031 -- Channel A



c:\ezchromb\chrom\0104hp3.031 -- Channel B



HPLC 1

File : c:\ezchromb\chrom\0104hp3.031
Method : c:\ezchromb\methods\lc1\13ph1204.met
Sample ID : 1.0ppm(5-w-sn-84-2)
Acquired : Jan 04, 2001 22:17:55
Printed : Jan 05, 2001 07:40:53
User : System

Channel A Results

Peak Name	Time	Area	Conc.
NAPHTHALENE	4.81	2310	1.19
ACENAPHTYLENE	5.63	1639	1.27
1-METHYLNAPHT	6.32	897	0.88
2-METHYLNAPHT	6.70	1473	0.91
ACENAPTHENE	7.13	331	0.60
FLUORENE	7.52	8625	1.07
PHENANTHRENE	8.61	27603	1.08
ANTHRACENE	9.64	65368	1.08
FLUORANTHENE	10.88	6382	1.09
PYRENE	11.66	5137	1.01
P-TERPHENYL-D	13.50	0	0.00
BENZO(A)ANTHR	14.57	13260	1.07
CHRYSENE	15.15	18315	1.27
BENZO(B)FLUOR	17.57	15100	1.02
BENZO(K)FLOUR	18.62	13181	1.05
BENZO(A)PYREN	19.48	12925	1.01
DIBENZ(AH)ANT	21.19	3254	1.28
BENZO(GHI)PER	22.07	5317	1.03
INDENO(123CD)	22.98	15864	1.01

Channel B Results

Name	Time	Area	Conc.
NAPHTHALENE	4.93	320459	1.14
1-METHYLNAPHT	6.43	410333	0.95
2-METHYLNAPHT	6.81	368285	0.78
ACENAPTHENE	7.22	720330	0.84
FLUORENE	7.62	299157	0.97
PHENANTHRENE	8.72	268758	1.27
ANTHRACENE	9.75	144694	1.03
FLUORANTHENE	10.99	162738	1.12
PYRENE	11.77	529141	0.95
P-TERPHENYL-D	13.41	8048	0.00
BENZO(A)ANTHR	14.68	1756903	1.04
CHRYSENE	15.26	2780866	1.10
BENZO(B)FLUOR	17.67	1051276	1.07
BENZO(K)FLUOR	18.73	6933531	1.15
BENZO(A)PYREN	19.58	2477010	0.97
DIBENZ(AH)ANT	21.30	898354	1.10
BENZO(GHI)PER	22.17	1005334	0.98
INDENO(123CD)	23.09	219827	1.46

7C

8310 PAH CONTINUING CALIBRATION CHECK

Lab Name:	Test America	**Calibration Date:**	12/04/00
SDG #	220787	**Cont. Calib. Date:**	1/5/01
Instrument ID:	HPLC 3	**Lab File ID:**	0104HP3.040

UV CHANNEL

COMPOUND	known	actual		%D	MAX %D
Napthalene	1.00	1.14		13.1	15.0
Acenapthylene	1.00	1.26		23.0	15.0
1-Methyl-naphthalene	1.00	0.89		11.6	15.0
2-Methyl-naphthalene	1.00	0.91		9.4	15.0
Acenapthene	1.00	0.58		53.2	15.0
Flourene	1.00	1.07		6.8	15.0
Phenanthrene	1.00	1.07		6.8	15.0
Anthracene	1.00	1.07		6.8	15.0
Flouranthene	1.00	1.09		8.6	15.0
Pyrene	1.00	1.03		3.0	15.0
Benzo(a)anthracene	1.00	1.11		10.4	15.0
Chrysene	1.00	1.27		23.8	15.0
Benzo(b)flouranthene	1.00	1.01		1.0	15.0
Benzo(k)flouranthene	1.00	1.04		3.9	15.0
Benzo(a)pyrene	1.00	1.01		1.0	15.0
Dibenz(ah)anthracene	1.00	1.27		23.8	15.0
Benzo(ghi)Perylene	1.00	1.02		2.0	15.0
Indeno(123cd)pyrene	1.00	1.01		1.0	15.0

AVERAGE: 11.62

FORM VII SV 3/90

7C

8310 PAH CONTINUING CALIBRATION CHECK

Lab Name:	Test America	**Calibration Date:**	12/04/00
SDG #	220787	**Cont. Calib. Date:**	1/5/01
Instrument ID:	HPLC 3	**Lab File ID:**	0104HP3.040

FLOURECENCE CHANNEL

COMPOUND	known	actual		%D	MAX %D
Napthalene	1.00	1.08		7.7	15.0
1-Methyl-naphthalene	1.00	0.92		8.3	15.0
2-Methyl-naphthalene	1.00	0.73		31.2	15.0
Acenapthene	1.00	0.85		16.2	15.0
Flourene	1.00	0.99		1.0	15.0
Phenanthrene	1.00	1.21		19.0	15.0
Anthracene	1.00	1.21		19.0	15.0
Flouranthene	1.00	1.12		11.3	15.0
Pyrene	1.00	0.96		4.1	15.0
Benzo(a)anthracene	1.00	1.05		4.9	15.0
Chrysene	1.00	1.11		10.4	15.0
Benzo(b)flouranthene	1.00	1.06		5.8	15.0
Benzo(k)flouranthene	1.00	1.14		13.1	15.0
Benzo(a)pyrene	1.00	0.97		3.0	15.0
Dibenz(ah)anthracene	1.00	1.09		8.6	15.0
Benzo(ghi)Perylene	1.00	0.99		1.0	15.0
Indeno(123cd)pyrene	1.00	1.49		39.4	15.0

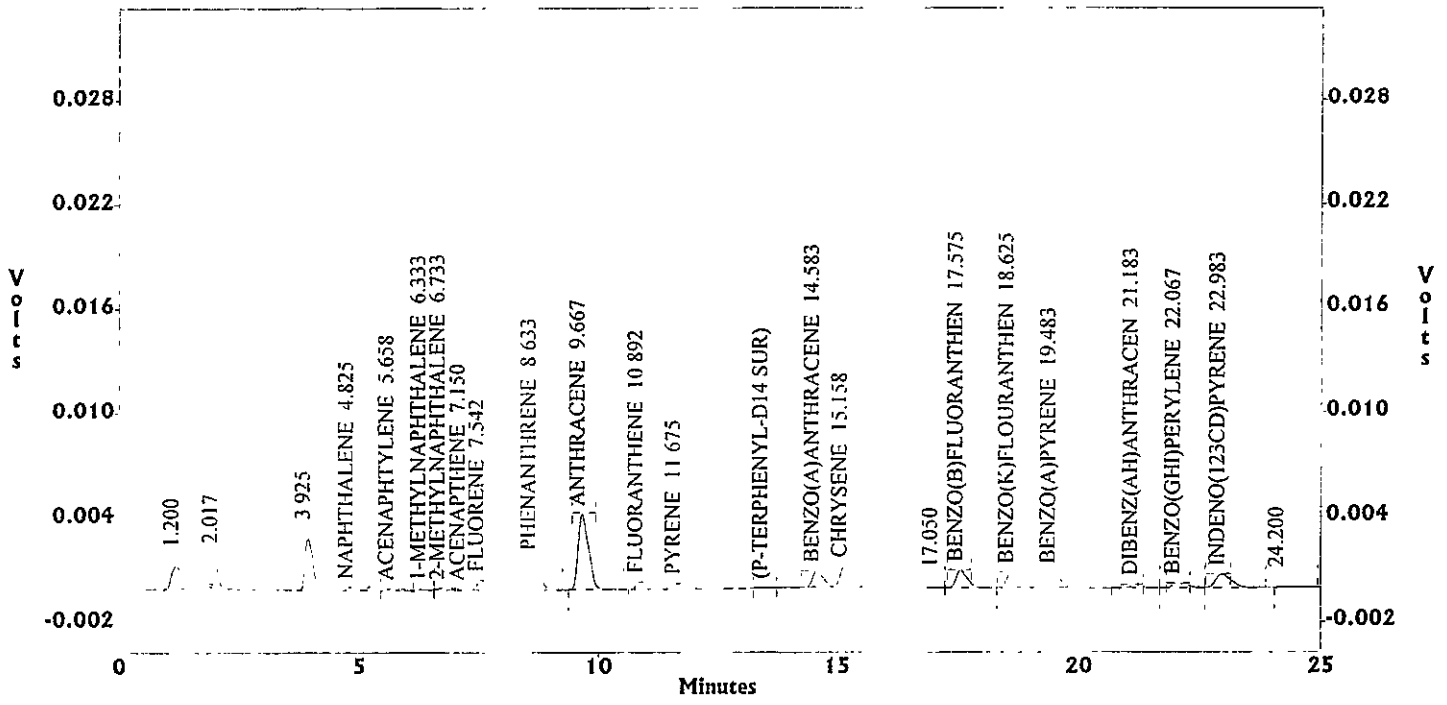
AVERAGE: 12.01

FORM VII SV 3/90

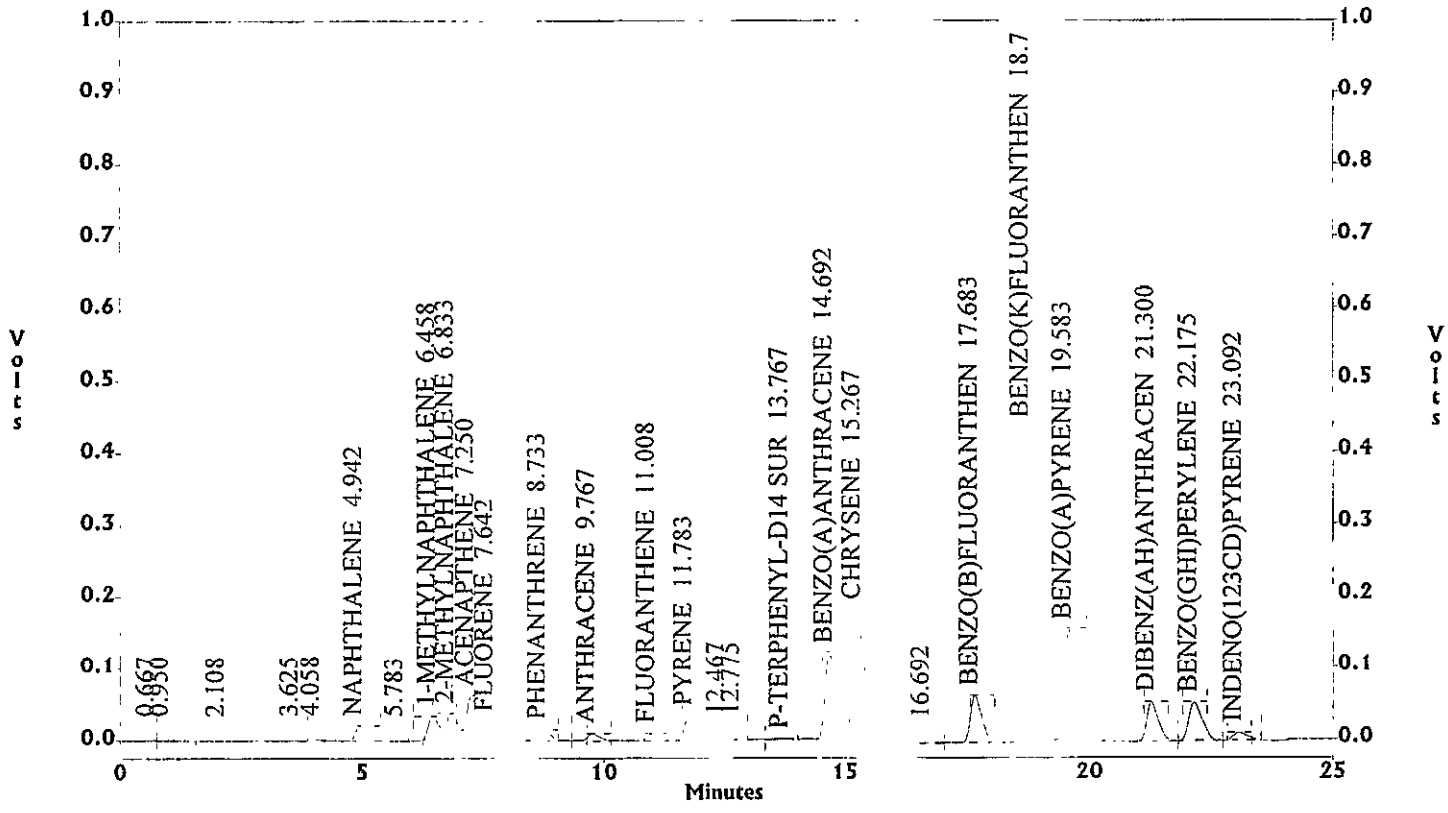
HPLC 1

File : c:\ezchromb\chrom\0104hp3.040
Method : c:\ezchromb\methods\lc1\13ph1204.met
Sample ID : 1.0ppm(5-w-sn-84-2)
Acquired : Jan 05, 2001 02:13:59
Printed : Jan 05, 2001 07:41:14
User : System

c:\ezchromb\chrom\0104hp3.040 -- Channel A



c:\ezchromb\chrom\0104hp3.040 -- Channel B



HPLC 1

File : c:\ezchromb\chrom\0104hp3.040
Method : c:\ezchromb\methods\lc1\l3ph1204.met
Sample ID : 1.0ppm(5-w-sn-84-2)
Acquired : Jan 05, 2001 02:13:59
Printed : Jan 05, 2001 07:41:15
User : System

Channel A Results

Peak Name	Time	Area	Conc.
NAPHTHALENE	4.82	2225	1.14
ACENAPHTYLENE	5.66	1632	1.26
1-METHYLNAPHT	6.33	906	0.89
2-METHYLNAPHT	6.73	1471	0.91
ACENAPTHENE	7.15	322	0.58
FLUORENE	7.54	8579	1.07
PHENANTHRENE	8.63	27523	1.07
ANTHRACENE	9.67	65287	1.07
FLUORANTHENE	10.89	6351	1.09
PYRENE	11.68	5231	1.03
P-TERPHENYL-D	13.50	0	0.00
BENZO(A)ANTHR	14.58	13794	1.11
CHRYSENE	15.16	18236	1.27
BENZO(B)FLUOR	17.58	15017	1.01
BENZO(K)FLOUR	18.63	13008	1.04
BENZO(A)PYREN	19.48	12946	1.01
DIBENZ(AH)ANT	21.18	3228	1.27
BENZO(GHI)PER	22.07	5280	1.02
INDENO(123CD)	22.98	15798	1.01

Channel B Results

Name	Time	Area	Conc.
NAPHTHALENE	4.94	303787	1.08
1-METHYLNAPHT	6.46	397930	0.92
2-METHYLNAPHT	6.83	351269	0.73
ACENAPTHENE	7.25	732134	0.85
FLUORENE	7.64	305330	0.99
PHENANTHRENE	8.73	256766	1.21
ANTHRACENE	9.77	167583	1.21
FLUORANTHENE	11.01	162735	1.12
PYRENE	11.78	534626	0.96
P-TERPHENYL-D	13.77	24475	0.07
BENZO(A)ANTHR	14.69	1762324	1.05
CHRYSENE	15.27	2811494	1.11
BENZO(B)FLUOR	17.68	1042952	1.06
BENZO(K)FLUOR	18.73	6913864	1.14
BENZO(A)PYREN	19.58	2472761	0.97
DIBENZ(AH)ANT	21.30	894570	1.09
BENZO(GHI)PER	22.17	1012175	0.99
INDENO(123CD)	23.09	223670	1.49

TestAmerica
INCORPORATED

Sample Identification

BLANK

Matrix: Water
% Dry Weight:
Units: UG/L
Dilution Factor: 1
Analysis Method: SW8310
Delivery Group: 220787
Instrument:
Vol Extracted: 1000 ml
Extract Vol: 1.0 ml

Lab Sample ID: BLANK
Date Sampled: 12/20/00
Date Received: 12/22/00
Analysis Date: 1/ 4/01
Analysis Time: 19:40
Sample QC Group: 5773

Extraction Date:

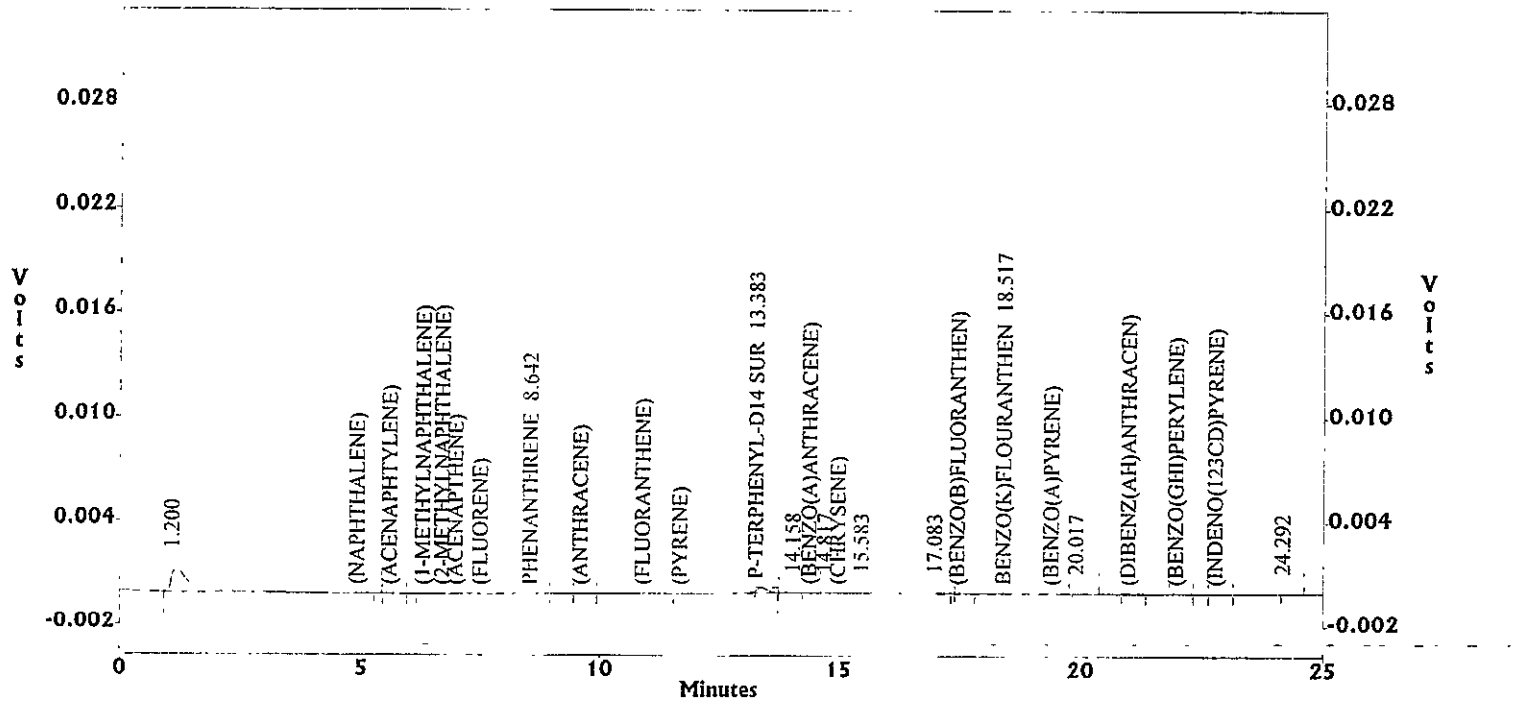
FORM I

CAS NUMBER	ANALYTE	CONCENTRATION		FLAG
91-20-3	Naphthalene	1.00	....	U
83-32-9	Acenaphthene	1.00	....	U
120-12-7	Anthracene	0.66	....	U
206-44-0	Fluoranthene	0.21	....	U
7782-41-4	Fluorene	0.50	....	U
129-00-0	Pyrene	0.27	....	U
56-55-3	Benzo(a)anthracene	0.13	....	U
50-32-8	Benzo(a)pyrene	0.10	....	U
205-99-2	Benzo(b)fluoranthene	0.18	....	U
207-08-9	Benzo(k)fluoranthene	0.17	....	U
218-01-9	Chrysene	0.15	....	U
53-70-3	Dibenzo(a,h)anthracene	0.30	....	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.43	....	U
208-96-8	Acenaphthylene	2.00	....	U
191-24-2	Benzo(g,h,i)perylene	0.76	....	U
85-01-8	Phenanthrene	0.64	....	U
90-12-0	1-Methylnapthalene	1.00	....	U
91-57-6	2-Methylnaphthalene	1.00	....	U

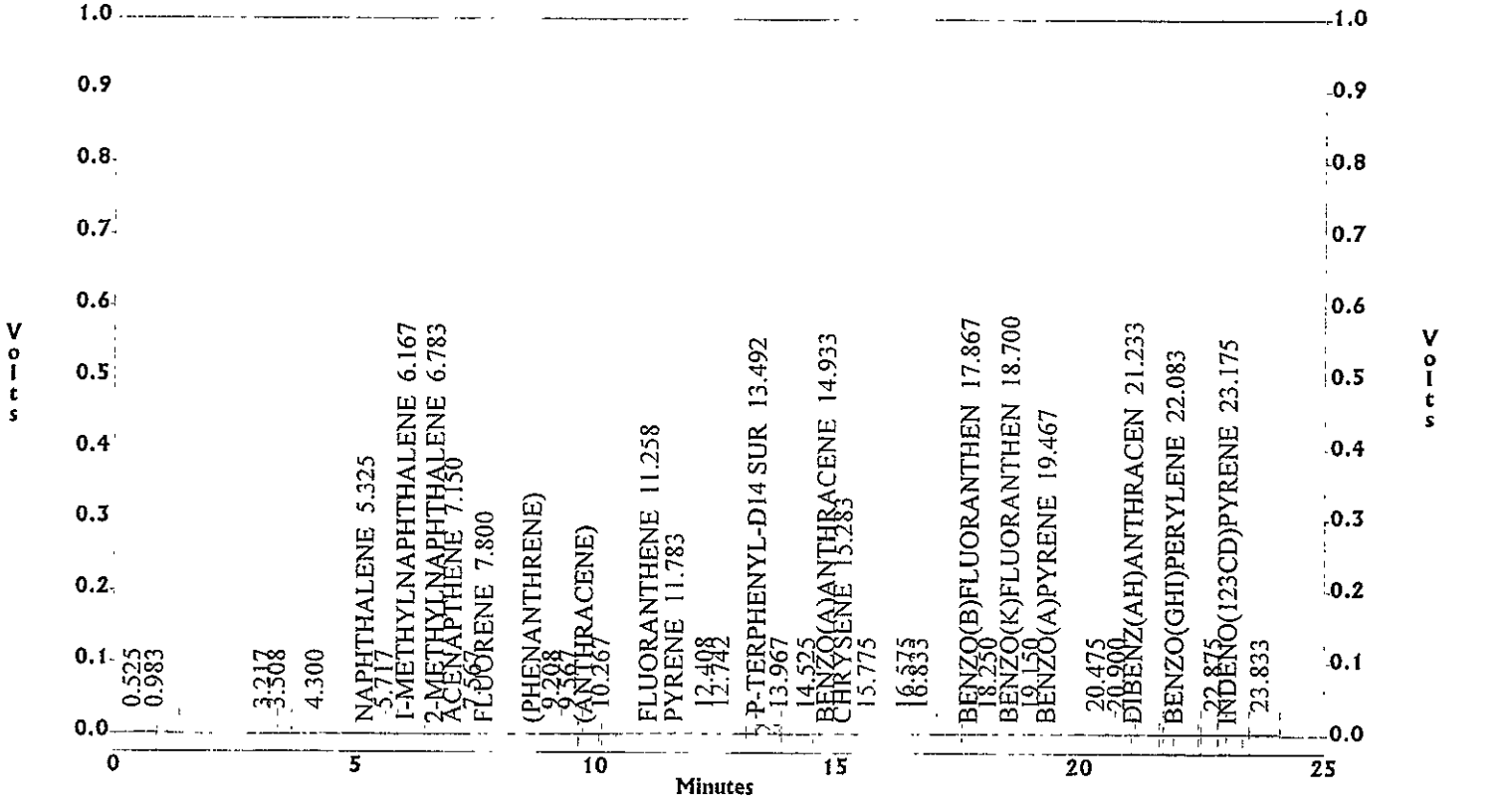
HPLC 1

File : c:\ezchromb\chrom\0104hp3.021
Method : c:\ezchromb\methods\lc1\l3ph1204.met
Sample ID : 30515 wbb
Acquired : Jan 04, 2001 17:55:35
Printed : Jan 05, 2001 07:40:23
User : System

c:\ezchromb\chrom\0104hp3.021 -- Channel A



c:\ezchromb\chrom\0104hp3.021 -- Channel B



HPLC 1

File : c:\ezchromb\chrom\0104hp3.021
Method : c:\ezchromb\methods\lc1\13ph1204.met
Sample ID : 30515 wbb
Acquired : Jan 04, 2001 17:55:35
Printed : Jan 05, 2001 07:40:24
User : System

Channel A Results

Peak Name	Time	Area	Conc.
NAPHTHALENE	5.02	0	0.00
ACENAPHTYLENE	5.70	0	0.00
1-METHYLNAPHT	6.40	0	0.00
2-METHYLNAPHT	6.80	0	0.00
ACENAPTHENE	7.08	0	0.00
FLUORENE	7.60	0	0.00
PHENANTHRENE	8.64	303	0.01
ANTHRACENE	9.70	0	0.00
FLUORANTHENE	11.02	0	0.00
PYRENE	11.80	0	0.00
P-TERPHENYL-D	13.38	4745	0.96
BENZO(A)ANTHR	14.50	0	0.00
CHRYSENE	15.10	0	0.00
BENZO(B)FLUOR	17.55	0	0.00
BENZO(K)FLOUR	18.52	2718	0.23
BENZO(A)PYREN	19.51	0	0.00
DIBENZ(AH)ANT	21.10	0	0.00
BENZO(GHI)PER	22.08	0	0.00
INDENO(123CD)	22.90	0	0.00

Channel B Results

Name	Time	Area	Conc.
NAPHTHALENE	5.32	22301	0.10
1-METHYLNAPHT	6.17	12082	0.00
2-METHYLNAPHT	6.78	2326	0.00
ACENAPTHENE	7.15	3473	0.00
FLUORENE	7.80	1935	0.06
PHENANTHRENE	8.80	0	0.00
ANTHRACENE	9.90	0	0.00
FLUORANTHENE	11.26	8345	0.01
PYRENE	11.78	26953	0.04
P-TERPHENYL-D	13.49	190503	0.93
BENZO(A)ANTHR	14.93	7065	0.02
CHRYSENE	15.28	9487	0.02
BENZO(B)FLUOR	17.87	9239	0.00
BENZO(K)FLUOR	18.70	13225	0.00
BENZO(A)PYREN	19.47	3636	0.02
DIBENZ(AH)ANT	21.23	6572	0.00
BENZO(GHI)PER	22.08	7542	0.00
INDENO(123CD)	23.17	1994	0.02

1C

SAMPLE NO.

8310 PAH ANALYSIS DATA SHEET

029-SMW11-04-00-07 MS

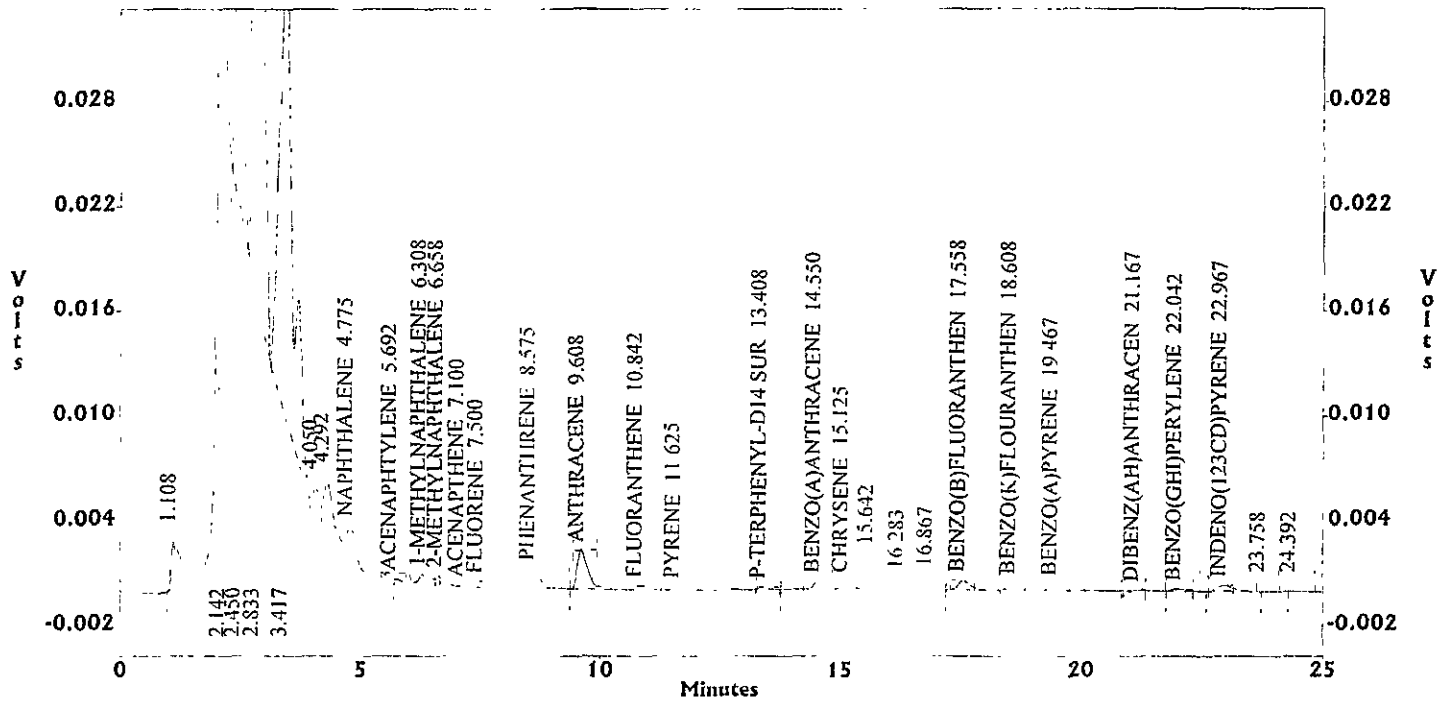
Lab Name:	Test America	**Lab Sample ID:**	30516 wsb
SDG #:	220787	**Lab File ID:**	0104hp3.022
Matrix: (soil/water)	Water	**Date Analyzed:**	01/04/00
Extract Volume:	500 ml	**Date Received:**	12/21/00
Volume Extracted:	1 ml	**Extraction Date:**	12/26/00
HPLC Column:	Reverse Pahse c18	**Injection Volume:**	5.0 ul

CAS No.	Compound		MS REC ug/L		Q
	Napthalene		12.84000		
	Acenapthylene		3.00000		
	1-Methyl-naphthalene		42.96000		
	2-Methyl-naphthalene		28.44000		
	Acenapthene		2.64000		
	Flourene		6.84000		
	Phenanthrene		9.36000		
	Anthracene		6.84000		
	Flouranthene		7.68000		
	Pyrene		7.92000		
	Benzo(a)anthracene		6.24000		
	Chrysene		5.40000		
	Benzo(b)flouranthene		6.84000		
	Benzo(k)flouranthene		5.76000		
	Benzo(a)pyrene		5.40000		
	Dibenz(ah)anthracene		6.48000		
	Benzo(ghi)Perylene		5.28000		
	Indeno(123cd)pyrene		5.28000		

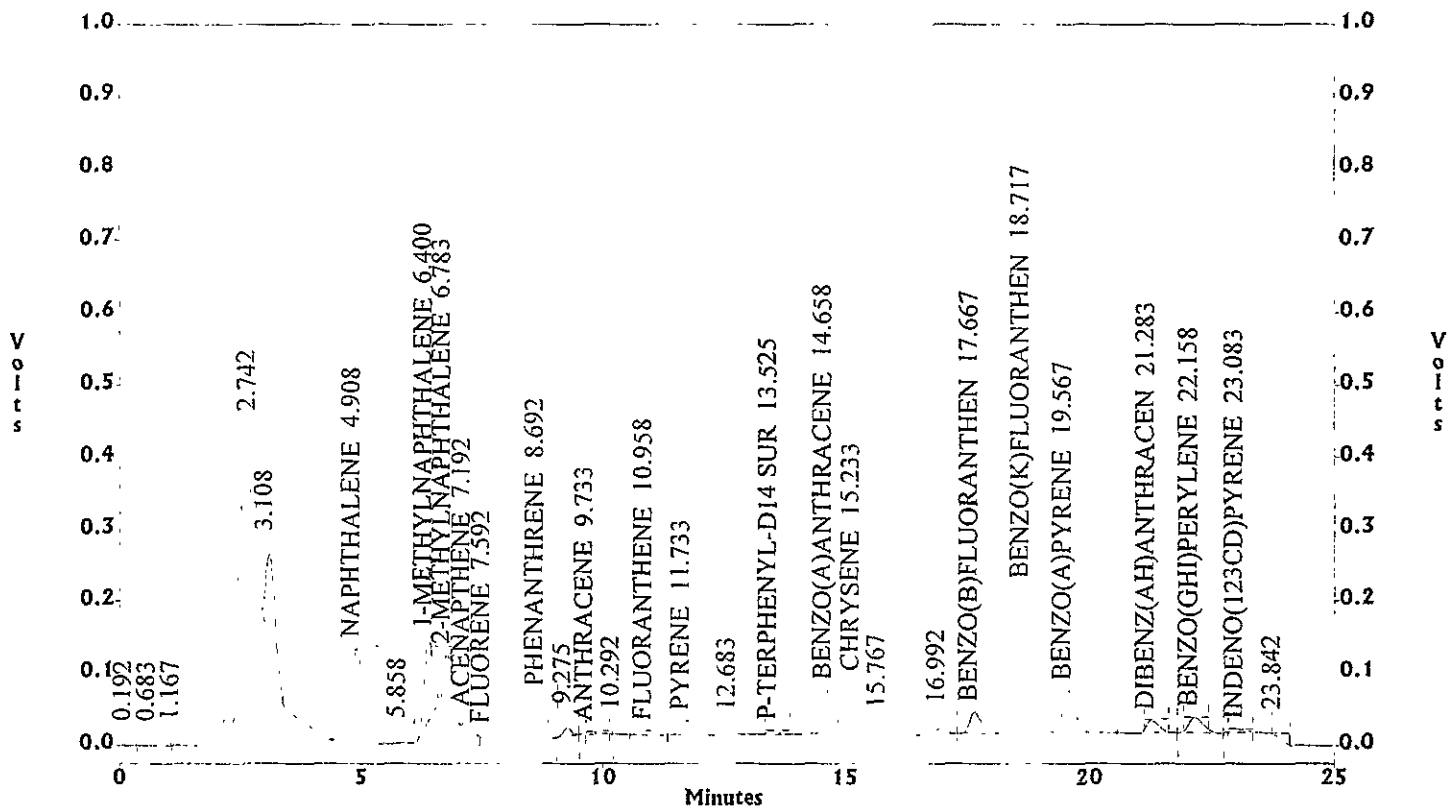
HPLC 1

File : c:\ezchromb\chrom\0104hp3.022
Method : c:\ezchromb\methods\lc1\l3ph1204.met
Sample ID : 30516 wsb
Acquired : Jan 04, 2001 18:21:48
Printed : Jan 05, 2001 07:40:27
User : System

c:\ezchromb\chrom\0104hp3.022 -- Channel A



c:\ezchromb\chrom\0104hp3.022 -- Channel B



HPLC 1

File : c:\ezchromb\chrom\0104hp3.022
Method : c:\ezchromb\methods\lc1\l3ph1204.met
Sample ID : 30516 wsb
Acquired : Jan 04, 2001 18:21:48
Printed : Jan 05, 2001 07:40:28
User : System

Channel A Results

Peak Name	Time	Area	Conc.
NAPHTHALENE	4.78	17115	8.80
ACENAPHTYLENE	5.69	317	0.25
1-METHYLNAPHT	6.31	4237	4.14
2-METHYLNAPHT	6.66	3489	2.15
ACENAPTHENE	7.10	668	1.21
FLUORENE	7.50	4607	0.57
PHENANTHRENE	8.57	20029	0.78
ANTHRACENE	9.61	34863	0.57
FLUORANTHENE	10.84	3714	0.64
PYRENE	11.63	3376	0.66
P-TERPHENYL-D	13.41	2100	0.43
BENZO(A)ANTHR	14.55	6470	0.52
CHRYSENE	15.13	6423	0.45
BENZO(B)FLUOR	17.56	8430	0.57
BENZO(K)FLOUR	18.61	5955	0.48
BENZO(A)PYREN	19.47	5564	0.45
DIBENZ(AH)ANT	21.17	1297	0.51
BENZO(GHI)PER	22.04	2241	0.44
INDENO(123CD)	22.97	6577	0.44

Channel B Results

Name	Time	Area	Conc.
NAPHTHALENE	4.91	1837778	6.42
1-METHYLNAPHT	6.40	1482748	3.58
2-METHYLNAPHT	6.78	1027943	2.37
ACENAPTHENE	7.19	199427	0.22
FLUORENE	7.59	94548	0.35
PHENANTHRENE	8.69	1946738	9.79
ANTHRACENE	9.73	60684	0.40
FLUORANTHENE	10.96	94938	0.64
PYRENE	11.73	324567	0.58
P-TERPHENYL-D	13.52	87837	0.40
BENZO(A)ANTHR	14.66	899001	0.54
CHRYSENE	15.23	1114391	0.45
BENZO(B)FLUOR	17.67	466412	0.46
BENZO(K)FLUOR	18.72	3167112	0.51
BENZO(A)PYREN	19.57	929239	0.38
DIBENZ(AH)ANT	21.28	308276	0.36
BENZO(GHI)PER	22.16	416534	0.39
INDENO(123CD)	23.08	97962	0.66

1C

SAMPLE NO

8310 PAH ANALYSIS DATA SHEET

029-SMW11-04-00-07 MSD

Lab Name:	Test America	**Lab Sample ID:**	30517 wsb
SDG #:	220787	**Lab File ID:**	0104hp3.023
Matrix: (soil/water)	Water	**Date Analyzed:**	01/04/00
Extract Volume:	500 ml	**Date Received:**	12/21/00
Volume Extracted:	1 ml	**Extraction Date:**	12/26/00
HPLC Column:	Reverse Pahse c18	**Injection Volume:**	5.0 ul

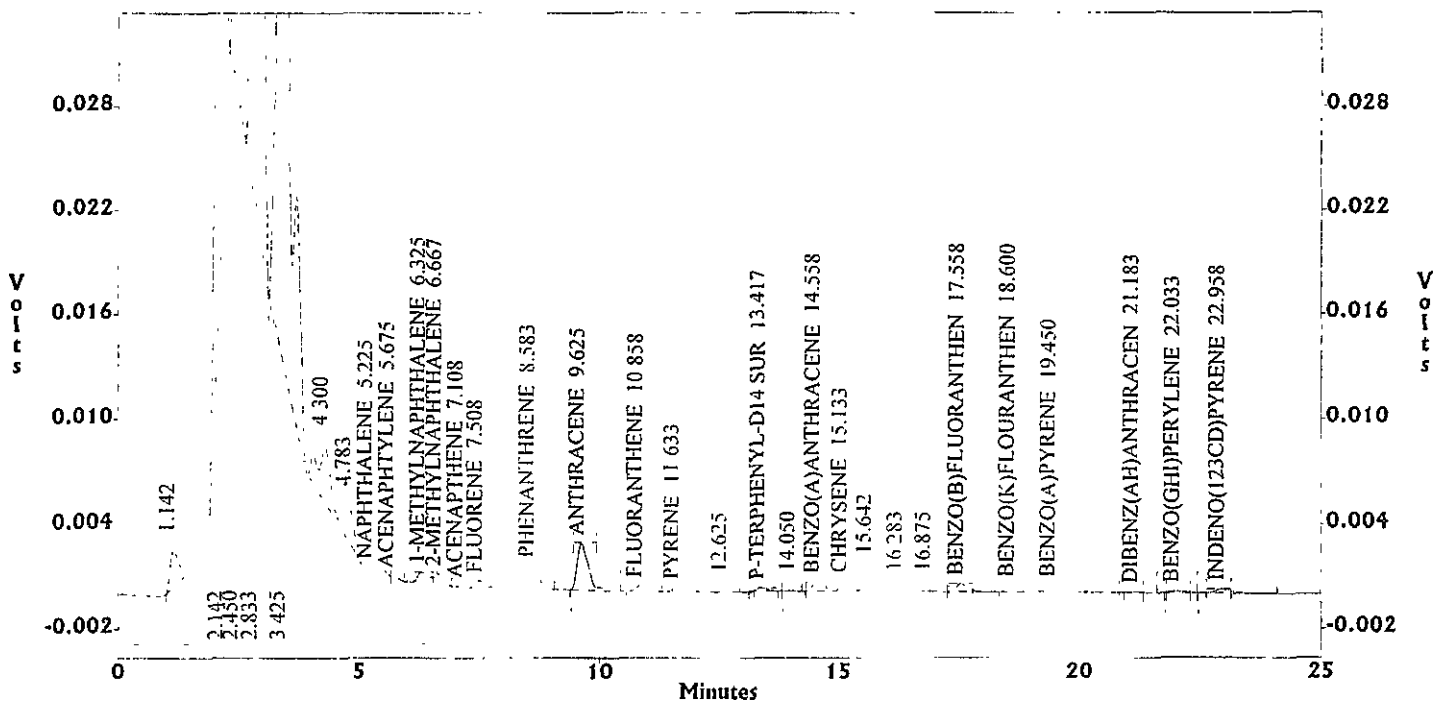
CAS No.	Compound		MSD REC ug/L		Q
	Napthalene		93.48000		
	Acenapthylene		1.56000		
	1-Methyl-naphthalene		53.16000		
	2-Methyl-naphthalene		35.28000		
	Acenapthene		16.32000		
	Flourene		8.28000		
	Phenanthrene		11.04000		
	Anthracene		8.64000		
	Flouranthene		9.84000		
	Pyrene		9.84000		
	Benzo(a)anthracene		7.32000		
	Chrysene		6.60000		
	Benzo(b)flouranthene		5.52000		
	Benzo(k)flouranthene		5.76000		
	Benzo(a)pyrene		5.16000		
	Dibenz(ah)anthracene		4.08000		
	Benzo(ghi)Perylene		3.72000		
	Indeno(123cd)pyrene		4.80000		

FORM I VOA 3/90

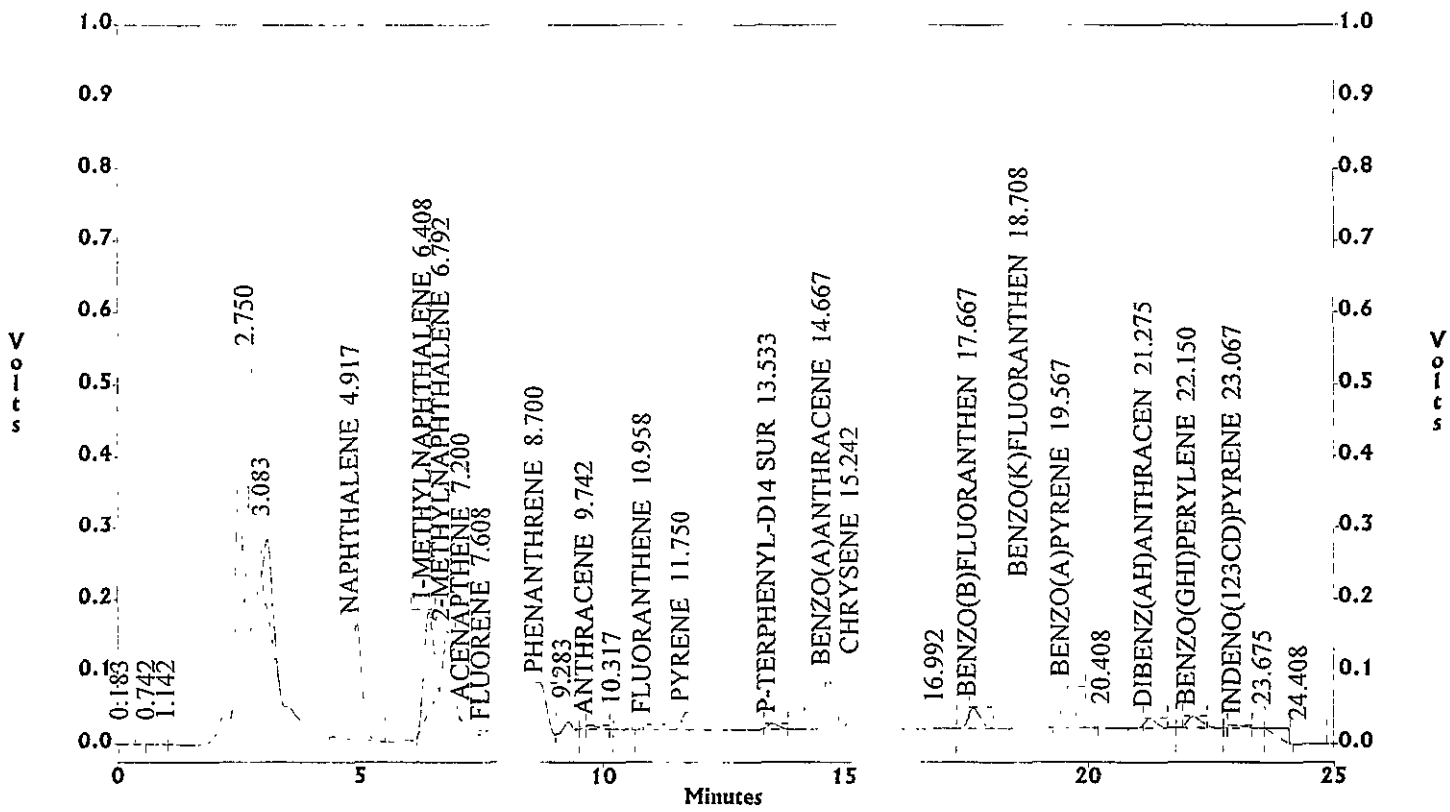
HPLC 1

File : c:\ezchromb\chrom\0104hp3.023
Method : c:\ezchromb\methods\lc1\l3ph1204.met
Sample ID : 30517 wsb
Acquired : Jan 04, 2001 18:48:02
Printed : Jan 05, 2001 07:40:30
User : System

c:\ezchromb\chrom\0104hp3.023 -- Channel A



c:\ezchromb\chrom\0104hp3.023 -- Channel B



HPLC 1

File : c:\ezchromb\chrom\0104hp3.023
Method : c:\ezchromb\methods\lc1\13ph1204.met
Sample ID : 30517 wsb
Acquired : Jan 04, 2001 18:48:02
Printed : Jan 05, 2001 07:40:30
User : System

Channel A Results

Peak Name	Time	Area	Conc.
NAPHTHALENE	5.22	4883	2.51
ACENAPHTYLENE	5.68	169	0.13
1-METHYLNAPHT	6.32	5274	5.16
2-METHYLNAPHT	6.67	4584	2.82
ACENAPTHENE	7.11	752	1.36
FLUORENE	7.51	5523	0.69
PHENANTHRENE	8.58	23535	0.92
ANTHRACENE	9.63	43503	0.72
FLUORANTHENE	10.86	4767	0.82
PYRENE	11.63	4202	0.82
P-TERPHENYL-D	13.42	2881	0.59
BENZO(A)ANTHR	14.56	7598	0.61
CHRYSENE	15.13	7904	0.55
BENZO(B)FLUOR	17.56	6883	0.46
BENZO(K)FLOUR	18.60	5877	0.48
BENZO(A)PYREN	19.45	5312	0.43
DIBENZ(AH)ANT	21.18	860	0.34
BENZO(GHI)PER	22.03	1514	0.31
INDENO(123CD)	22.96	5960	0.40

Channel B Results

Name	Time	Area	Conc.
NAPHTHALENE	4.92	2231197	7.79
1-METHYLNAPHT	6.41	1830147	4.43
2-METHYLNAPHT	6.79	1264419	2.94
ACENAPTHENE	7.20	221950	0.24
FLUORENE	7.61	111484	0.40
PHENANTHRENE	8.70	2400840	12.09
ANTHRACENE	9.74	91598	0.64
FLUORANTHENE	10.96	127679	0.87
PYRENE	11.75	408393	0.73
P-TERPHENYL-D	13.53	156252	0.75
BENZO(A)ANTHR	14.67	1077961	0.65
CHRYSENE	15.24	1371683	0.55
BENZO(B)FLUOR	17.67	456006	0.45
BENZO(K)FLUOR	18.71	3080667	0.50
BENZO(A)PYREN	19.57	882263	0.36
DIBENZ(AH)ANT	21.27	225399	0.25
BENZO(GHI)PER	22.15	303004	0.28
INDENO(123CD)	23.07	68544	0.46

1C SAMPLE NO

8310 PAH ANALYSIS DATA SHEET

CONTROL W

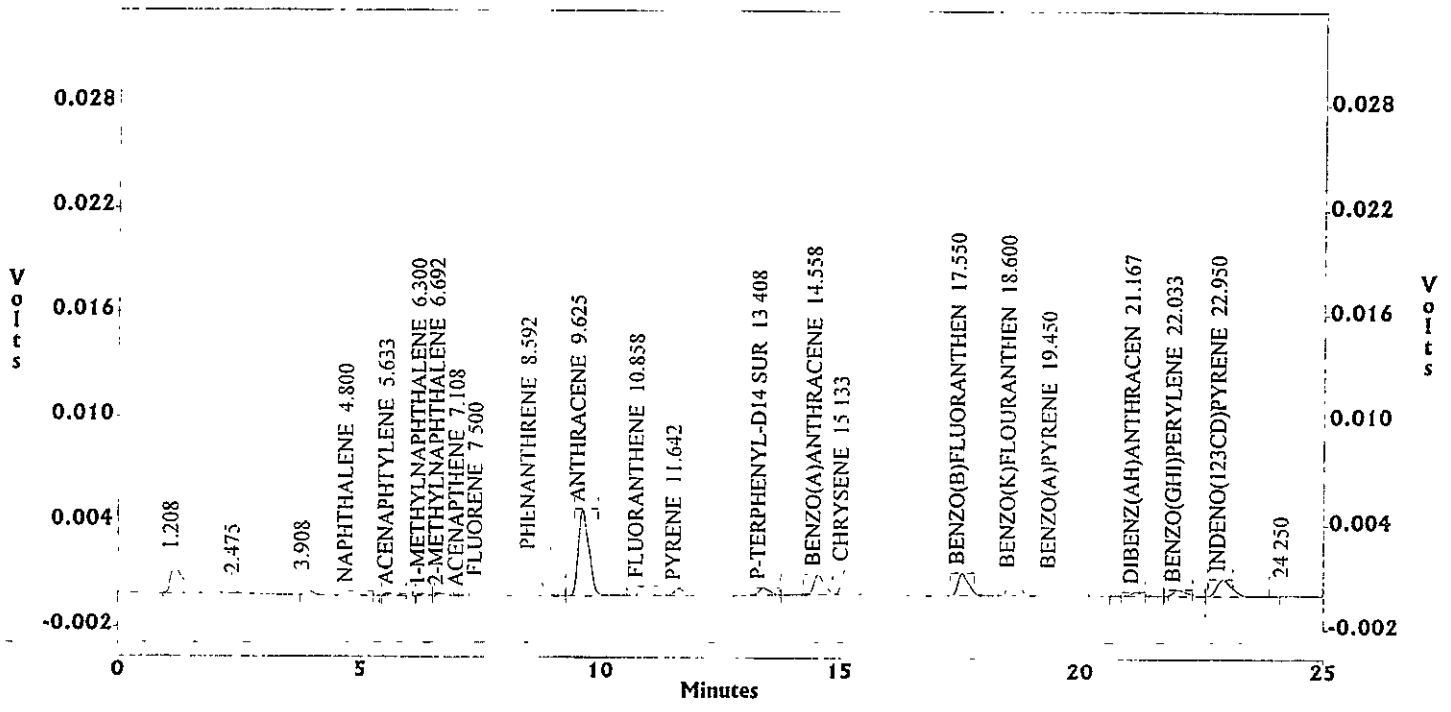
Lab Name:	Test America	**Lab Sample ID:**	30984 lcs
SDG #:	220787	**Lab File ID:**	0104hp3.024
Matrix: (soil/water)	Water	**Date Analyzed:**	01/04/00
Extract Volume:	500 ml	**Date Received:**	12/21/00
Volume Extracted:	1 ml	**Extraction Date:**	12/26/00
HPLC Column:	Reverse Pahse c18	**Injection Volume:**	5.0 ul

CAS No.	Compound		LCS REC ug/L		Q
	Napthalene		1.56000		
	Acenapthylene		1.24000		
	1-Methyl-naphthalene		0.92000		
	2-Methyl-naphthalene		0.94000		
	Acenapthene		0.82000		
	Flourene		1.24000		
	Phenanthrene		1.28000		
	Anthracene		1.22000		
	Flouranthene		1.36000		
	Pyrene		1.26000		
	Benzo(a)anthracene		1.32000		
	Chrysene		1.52000		
	Benzo(b)flouranthene		1.28000		
	Benzo(k)flouranthene		1.30000		
	Benzo(a)pyrene		1.26000		
	Dibenz(ah)anthracene		1.50000		
	Benzo(ghi)Perylene		1.28000		
	Indeno(123cd)pyrene		1.28000		

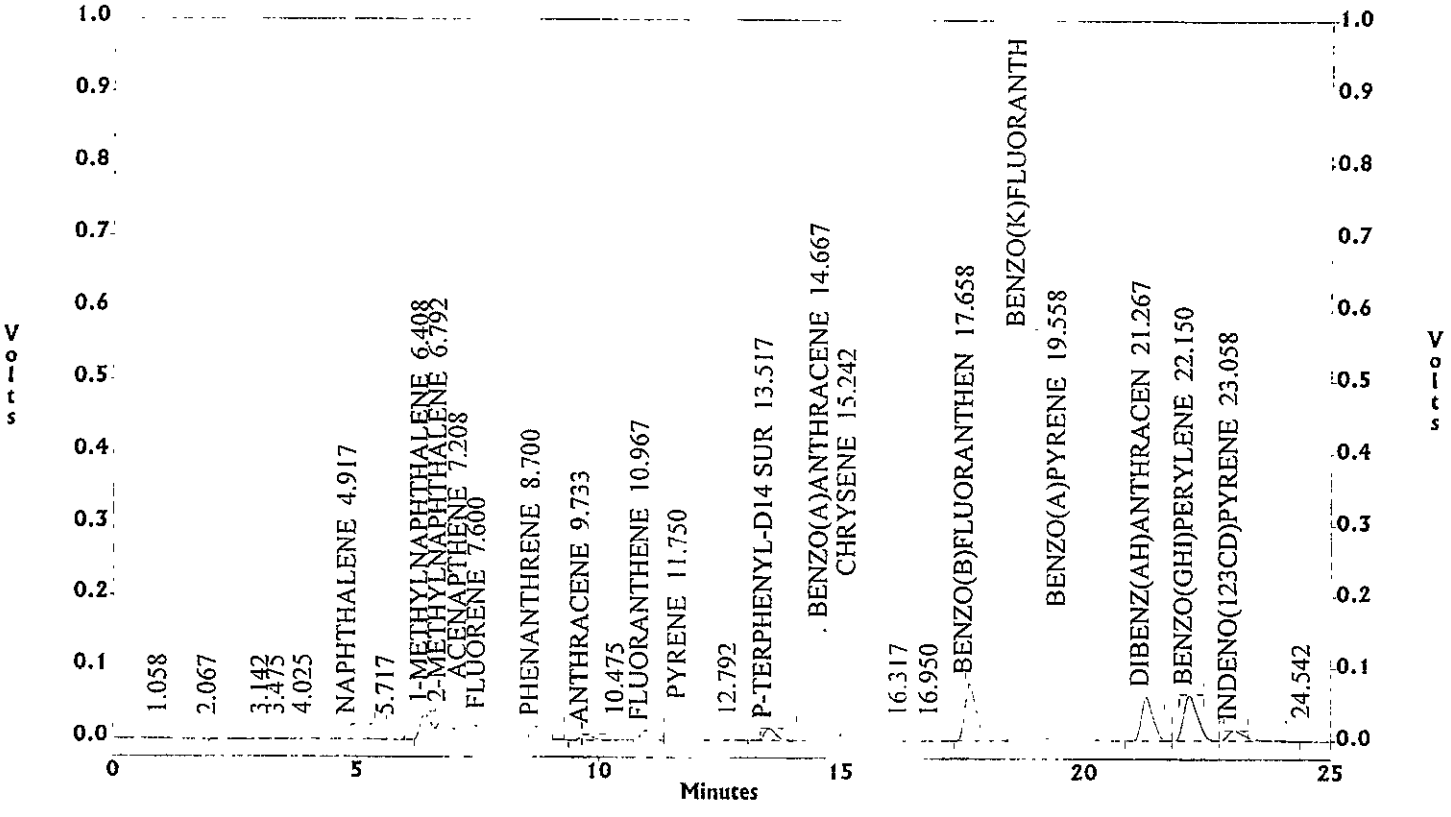
HPLC 1

File : c:\ezchromb\chrom\0104hp3.024
Method : c:\ezchromb\methods\lc1\13ph1204.met
Sample ID : 30984 lcs
Acquired : Jan 04, 2001 19:14:15
Printed : Jan 05, 2001 07:40:32
User : System

c:\ezchromb\chrom\0104hp3.024 -- Channel A



c:\ezchromb\chrom\0104hp3.024 -- Channel B



HPLC 1

File : c:\ezchromb\chrom\0104hp3.024
Method : c:\ezchromb\methods\lc1\l3ph1204.met
Sample ID : 30984 lcs
Acquired : Jan 04, 2001 19:14:15
Printed : Jan 05, 2001 07:40:33
User : System

Channel A Results

Peak Name	Time	Area	Conc.
NAPHTHALENE	4.80	3034	1.56
ACENAPHTYLENE	5.63	1595	1.23
1-METHYLNAPHT	6.30	944	0.92
2-METHYLNAPHT	6.69	1515	0.93
ACENAPTHENE	7.11	389	0.70
FLUORENE	7.50	9872	1.23
PHENANTHRENE	8.59	33018	1.29
ANTHRACENE	9.63	74172	1.22
FLUORANTHENE	10.86	7901	1.35
PYRENE	11.64	6427	1.26
P-TERPHENYL-D	13.41	6152	1.25
BENZO(A)ANTHR	14.56	16360	1.32
CHRYSENE	15.13	21765	1.51
BENZO(B)FLUOR	17.55	19081	1.28
BENZO(K)FLOUR	18.60	16376	1.30
BENZO(A)PYREN	19.45	16183	1.26
DIBENZ(AH)ANT	21.17	3795	1.49
BENZO(GHI)PER	22.03	6638	1.28
INDENO(123CD)	22.95	19990	1.27

Channel B Results

Name	Time	Area	Conc.
NAPHTHALENE	4.92	289575	1.03
1-METHYLNAPHT	6.41	346157	0.79
2-METHYLNAPHT	6.79	278044	0.56
ACENAPTHENE	7.21	698670	0.81
FLUORENE	7.60	187552	0.63
PHENANTHRENE	8.70	305107	1.46
ANTHRACENE	9.73	126301	0.90
FLUORANTHENE	10.97	202519	1.41
PYRENE	11.75	700202	1.26
P-TERPHENYL-D	13.52	264277	1.31
BENZO(A)ANTHR	14.67	2308301	1.37
CHRYSENE	15.24	3293721	1.30
BENZO(B)FLUOR	17.66	1242352	1.27
BENZO(K)FLUOR	18.71	8867025	1.47
BENZO(A)PYREN	19.56	2710457	1.06
DIBENZ(AH)ANT	21.27	998021	1.22
BENZO(GHI)PER	22.15	1208830	1.19
INDENO(123CD)	23.06	329871	2.19

Worklist: 1167 Worklist format: bnwlext
Created on: 12/22/00 by: J.Jacobs

HPCC Water

	Log number	Due Date	Due Time	Target Date
1.	blank 30515 WBB			
2.	00-A183950	1/ 5/01		1/ 5/01
3.	00-A183951	1/ 5/01		1/ 5/01
4.	00-A183952	1/ 5/01		1/ 5/01
5.	00-A183953	1/ 5/01		1/ 5/01
6.	00-A183954	1/ 5/01		1/ 5/01
7.	00-A183955 X3	1/ 5/01		1/ 5/01
8.	00-A183956	1/ 5/01		1/ 5/01
9.	00-A183957	1/ 5/01		1/ 5/01
10.	Spike 30516 WSB			
11.	mspkdup 30517 WBB			
12.	known 31984 LCS			

pH
7.0

Prep by 12/26

MS/MSD 183955

HPLC PAH EXTRACTIONS -- WATER

Worklist #: 1167

Date Created: 12/22/00

Analyst: J.Jacobs

Date Extracted: 12/26/00 gr

Position	Sample ID	Extraction	Vol Ext'd	Ext. Vol
1.	blank	C	1000	1.0
2.	00-A183950		980	
	SW-846 DOC LEVEL IV			
3.	00-A183951		990	
	SW-846 DOC LEVEL III			
4.	00-A183952		980	
	SW-846 DOC LEVEL III			
5.	00-A183953		990	
	SW-846 DOC LEVEL III			
6.	00-A183954		990	
	SW-846 DOC LEVEL III			
7.	00-A183955		990	
	SW-846 DOC LEVEL III			
8.	00-A183956		990	
	SW-846 DOC LEVEL III			

HPLC PAH EXTRACTIONS -- WATER

Worklist #: 1167 Date Created: 12/22/00

Analyst: J.Jacobs Date Extracted:

Position	Sample ID	Extraction	Vol Ext'd	Ext. Vol
9.	00-A183757	C	990	10

SW-846 DOC LEVEL III

10. Spike Original: 7 Spike Solution: ~~990~~ 500 qk 12/26/00

11. mspkdup Original: 10 Spike Solution: ~~990~~ qk 12/26/00

12. known Laboratory Control Sample: 500 qk 01/05/01

HPCC

TestAmerica
INCORPORATED
Nashville, TN

METHYLENE CHLORIDE: P6RJ16-3
ACETONE:
HEXANE:
DIETHYL ETHER:
1,1,2-TRICHLOROTRIFLUOROETHANE (FREON):
METHANOL:
ACETONITRILE:
SILICA GEL:
TOLUENE:
SODIUM CHLORIDE:
PENTANE:
FLORISIL:
SODIUM HYDROXIDE:
SULFURIC ACID:
SODIUM SULFATE (anhydrous): P6D412-3
HYDROCHLORIC ACID:
EDTA:
BORON TRIFLUORIDE/METHANOL (BF-3):
SODIUM SULFATE (aqueous):
POTASSIUM HYDROXIDE (37%):
SULFURIC ACID (25%):
HEXANE/ACETONE MIX (70:30):

SURROGATE: 5W5N74-6

SPIKE: 5W5N73-6 } 1.0 mL ea

LCS:

Oil and Grease Water Bath Temperature:

Soxhlet Extraction Start time: Finish Time:

pH Adjustment: NaOH addition: Sulfuric Acid addition:

Secondary Verification of Samples, Spike, Surrogate, LCS and Extraction Date by: 12/26/00

1.0ppm(5-w-sn-84-2)	l3ph1204.met	0104hp3.001
1.0ppm(5-w-sn-84-2)	l3ph1204.met	0104hp3.002
mdl blank soil	l3ph1204.met	0104hp3.003
mdl-1 soil	l3ph1204.met	0104hp3.004
mdl-2 soil	l3ph1204.met	0104hp3.005
mdl-3 soil	l3ph1204.met	0104hp3.006
mdl-4 soil	l3ph1204.met	0104hp3.007
mdl-5 soil	l3ph1204.met	0104hp3.008
mdl-6 soil	l3ph1204.met	0104hp3.009
mdl-7 soil	l3ph1204.met	0104hp3.010
1.0ppm(5-w-sn-84-2)	l3ph1204.met	0104hp3.011
mdl blank water	l3ph1204.met	0104hp3.012
mdl-1 water	l3ph1204.met	0104hp3.013
mdl-2 water	l3ph1204.met	0104hp3.014
mdl-3 water	l3ph1204.met	0104hp3.015
mdl-4 water	l3ph1204.met	0104hp3.016
mdl-5 water	l3ph1204.met	0104hp3.017
mdl-6 water	l3ph1204.met	0104hp3.018
mdl-7 water	l3ph1204.met	0104hp3.019
1.0ppm(5-w-sn-84-2)	l3ph1204.met	0104hp3.020
30515 wbb	l3ph1204.met	0104hp3.021
30516 wsb 029-5MW11-04-00-07 MS	l3ph1204.met	0104hp3.022
30517 wsb 029-5MW11-04-00-07 MSD	l3ph1204.met	0104hp3.023
30984 lcs	l3ph1204.met	0104hp3.024
183950 029-5MW01-04-00-07	l3ph1204.met	0104hp3.025
183951 029-5MW02-04-00-07	l3ph1204.met	0104hp3.026
183952 029-5MW03-04-00-07	l3ph1204.met	0104hp3.027
183953 029-5MW7-04-00-07	l3ph1204.met	0104hp3.028
183954 029-5MW10-04-00-07	l3ph1204.met	0104hp3.029
183955 029-5MW11-04-00-07	l3ph1204.met	0104hp3.030
1.0ppm(5-w-sn-84-2)	l3ph1204.met	0104hp3.031
183956 029-DUP-04-00-07	l3ph1204.met	0104hp3.032
183957 029-E0B-04-00-07	l3ph1204.met	0104hp3.033
31258 wbb	l3ph1204.met	0104hp3.034
31259 wsb	l3ph1204.met	0104hp3.035
31260 wsb	l3ph1204.met	0104hp3.036
32151 lcs	l3ph1204.met	0104hp3.037
4	l3ph1204.met	0104hp3.038
5	l3ph1204.met	0104hp3.039
1.0ppm(5-w-sn-84-2)	l3ph1204.met	0104hp3.040

TestAmerica

PH by SW846/9040/150.1

SUMMARY DATA

TESTAMERICA, INC
2960 FOSTER CREIGHTON DRIVE
NASHVILLE, TN 37204
1-800-765-0980

Klist: 1168 Worklist format: ph
Dated on: 12/22/00 by: J.Jacobs

	Log number	Due Date	Due Time	Target Date	Project
1.	00-A183950	1/ 5/01		1/ 5/01	220797
2.	00-A183951	1/ 5/01		1/ 5/01	220787
3.	00-A183952	1/ 5/01		1/ 5/01	220787
4.	00-A183953	1/ 5/01		1/ 5/01	220787
5.	00-A183954	1/ 5/01		1/ 5/01	220787
6.	00-A183955	1/ 5/01		1/ 5/01	220787
7.	00-A183956	1/ 5/01		1/ 5/01	220787
8.	00-A183957	1/ 5/01		1/ 5/01	220787
9.	Duplicate				

MS/MSD 183955

KAB

KAB

12/26

pH

Analyst: J.Jacobs

Analysis Date:

Worklist No.: 1168

Date Created: 12/22/00

Pos	Sample	Date	Time		pH	Soil Type
1.	00-A183950	12-26-00	8:46	liquid	6.4	
				solid	Not Requested	

Pos	Sample	Date	Time		pH	Soil Type
2.	00-A183951	12-26-00	8:50	liquid	6.5	
				solid	Not Requested	

Pos	Sample	Date	Time		pH	Soil Type
3.	00-A183952	12-26-00	8:50	liquid	4.4	
				solid	Not Requested	

Pos	Sample	Date	Time		pH	Soil Type
4.	00-A183953	12-26-00	8:54	liquid	6.2	
				solid	Not Requested	

pH

Analyst: J.Jacobs

Analysis Date:

Worklist No.: 1168

Date Created: 12/22/00

Pos	Sample	Date	Time		pH	Soil Type
5.	00-A183954	12-26-00	8:54	liquid	4.2	
				solid	Not Requested	

Pos	Sample	Date	Time		pH	Soil Type
6.	00-A183955	12-26-00	8:57	liquid	6.5	
				solid	Not Requested	

Pos	Sample	Date	Time		pH	Soil Type
7.	00-A183956	12-26-00	8:57	liquid	4.2	
				solid	Not Requested	

Pos	Sample	Date	Time		pH	Soil Type
8.	00-A183957	12-26-00	9:00	liquid	6.7	
				solid	Not Requested	

pH

Analyst: J.Jacobs

Analysis Date:

Worklist No.: 1168

Date Created: 12/22/00

9. Duplicate Original: 6

liquid 6.5 Diff: _____

RD : _____

TestAmerica

Nashville Division

Method CWA 150.1, SW-846 9040B

Daily pH Meter Run Log - Water

Date: 12-26-00

pH Meter A

Buffers	pH
1-3	1.00
4-21	4.00
7-24	7.00
10-13	10.00
ICV 7.9	7.00

12-1 12:56

Run #	Sample ID	pH	Temp.
1	184406	7.5	21
2	183974	7.4	21
3	183975	7.4	21
4	183978	7.1	21
5	183950	6.4	21
6	183951	6.5	21
7	183953	6.2	21
8	183955	6.5	21
Duplicate	183955	6.5	21
9	183957	6.7	21
10	184562	8.7	21
Duplicate	184562	8.7	21
ICV	7.9	7.0	21

pH Meter B

Buffers	pH
1-3	1.00
4-21	4.00
7-24	7.00
10-13	10.00
ICV 7.9	7.00

12-1 12:56

Run #	Sample ID	pH	Temp.
1	184384	6.6	21
Duplicate	184384	6.6	21
2	183973	7.6	21
3	183977	7.3	21
4	183979	7.8	21
5	183980	7.4	21
Duplicate	183980	7.4	21
6	183952	4.4	21
7	183954	4.2	21
8	183956	4.32	21
9	184733	7.8	21
10	184558	13.7	21
ICV	7.9	7.0	21

TESTAMERICA,INC.-NASHVILLE

COOLER RECEIPT FORM

Client: Accura Analytical Lab BC# 220287

Cooler Received On: 12/02/00 And Opened On: 12/02/00 By: James Jacobs

(Signature) J Jacobs

1. Temperature of Cooler when opened 2.5 Degrees Celsius
2. Were custody seals on outside of cooler?.....YES (NO)
   a. If yes, how many, what kind and where:_____
3. Were custody seals on containers and intact?.....(NO) YES
4. Were the seals intact, signed, and dated correctly?.....~~YES NO~~
5. Were custody papers inside cooler?.....(YES) NO
6. Were custody papers properly filled out (ink,signed,etc)?.....(YES) NO
7. Did you sign the custody papers in the appropriate place?.....(YES) NO
8. What kind of packing material used? (Bubblewrap) Peanuts Vermiculite Other None
9. Was sufficient ice used (if appropriate)?.....(YES) NO
10. Did all bottles arrive in good condition(unbroken)?.....(YES) NO
11. Were all bottle labels complete (#,date,signed,pres,etc)?.....(YES) NO
12. Did all bottle labels and tags agree with custody papers?.....(YES) NO
13. Were correct bottles used for the analysis requested?.....(YES) NO
14. a. Were VOA vials received?.....YES (NO)
    b. Was there any observable head space present in any VOA vial?.....~~NO YES~~
15. Was sufficient amount of sample sent in each bottle?.....(YES) NO
16. Were correct preservatives used?.....(YES) NO
17. Was residual chlorine present?.....(NO) YES
17. Corrective action taken, if necessary:

See attached for resolution

TestAmerica
INCORPORATED

ANALYTICAL REPORT

ACCURA ANALYTICAL 2656

6017 FINANCIAL DR.
NORCROSS, GA 30071

Project: #26563
Project Name: ACCURA ANALYTICAL LABORA
Sampler:

Lab Number: 00-A183950
Sample ID: 029-SMW01-Q4-00-07
Sample Type: Ground water
Site ID:

Date Collected: 12/20/00
Time Collected: 9:30
Date Received: 12/22/00
Time Received: 9:00

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
ORGANIC PARAMETERS										
Naphthalene	ND	ug/l	1.02	1.00	1	1/ 4/01	19:40	Noorbakhsh	8310	5773
Acenaphthene	ND	ug/l	1.02	1.00	1	1/ 4/01	19:40	Noorbakhsh	8310	5773
Anthracene	ND	ug/l	0.67	0.66	1	1/ 4/01	19:40	Noorbakhsh	8310	5773
Fluoranthene	ND	ug/l	0.21	0.21	1	1/ 4/01	19:40	Noorbakhsh	8310	5773
Fluorene	ND	ug/l	0.51	0.50	1	1/ 4/01	19:40	Noorbakhsh	8310	5773
Pyrene	ND	ug/l	0.28	0.27	1	1/ 4/01	19:40	Noorbakhsh	8310	5773
Benzo(a)anthracene	ND	ug/l	0.13	0.13	1	1/ 4/01	19:40	Noorbakhsh	8310	5773
Benzo(a)pyrene	ND	ug/l	0.10	0.10	1	1/ 4/01	19:40	Noorbakhsh	8310	5773
Benzo(b)fluoranthene	ND	ug/l	0.18	0.18	1	1/ 4/01	19:40	Noorbakhsh	8310	5773
Benzo(k)fluoranthene	ND	ug/l	0.17	0.17	1	1/ 4/01	19:40	Noorbakhsh	8310	5773
Chrysene	ND	ug/l	0.15	0.15	1	1/ 4/01	19:40	Noorbakhsh	8310	5773
Dibenzo(a,h)anthracene	ND	ug/l	0.31	0.30	1	1/ 4/01	19:40	Noorbakhsh	8310	5773
Indeno(1,2,3-cd)pyrene	ND	ug/l	0.44	0.43	1	1/ 4/01	19:40	Noorbakhsh	8310	5773
Acenaphthylene	ND	ug/l	2.04	2.00	1	1/ 4/01	19:40	Noorbakhsh	8310	5773
Benzo(g,h,i)perylene	ND	ug/l	0.78	0.76	1	1/ 4/01	19:40	Noorbakhsh	8310	5773
Phenanthrene	ND	ug/l	0.65	0.64	1	1/ 4/01	19:40	Noorbakhsh	8310	5773
1-Methylnapthalene	ND	ug/l	1.02	1.00	1	1/ 4/01	19:40	Noorbakhsh	8310	5773
2-Methylnaphthalene	ND	ug/l	1.02	1.00	1	1/ 4/01	19:40	Noorbakhsh	8310	5773
MISCELLANEOUS CHEMISTRY										
pH	6.40	pH Units			1	12/26/00	8:46	K. Stewart	9040/150.1	1168

ND - Not detected at the report limit.

Sample report continued . . .

TestAmerica
INCORPORATED

ANALYTICAL REPORT

Laboratory Number: 00-A183950
Sample ID: 029-SMW01-Q4-00-07

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
PAH's	980. ml	1.00 ml	12/26/00		J. Rudden	3510/610

Surrogate	% Recovery	Target Range
PAH Surr., p-terphenyl d14	30.	12. - 152.

= Recovery outside Laboratory historical limits.

These results relate only to the items tested.
This report shall not be reproduced except in full and with permission of the laboratory.

Report Approved By: _____ Report Date: 1/ 5/01

Paul E. Lane, Jr., Lab Director
Michael H. Dunn, M.S., Technical Director
Johnny A. Mitchell, Dir. Technical Serv.
Eric S. Smith, Assistant Technical Director
Gail A. Lage, Technical Serv.
Glenn L. Norton, Technical Serv.
Kelly S. Comstock, Technical Serv.
Pamela A. Langford, Technical Serv.

Laboratory Certification Number: HRS-E87358

End of Sample Report.

TestAmerica
INCORPORATED

ANALYTICAL REPORT

ACCURA ANALYTICAL 2656

6017 FINANCIAL DR.
NORCROSS, GA 30071

Project: #26563
Project Name: ACCURA ANALYTICAL LABORA
Sampler:

Lab Number: 00-A183951
Sample ID: 029-SMW02-Q4-00-07
Sample Type: Ground water
Site ID:

Date Collected: 12/20/00
Time Collected: 12:10
Date Received: 12/22/00
Time Received: 9:00

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
ORGANIC PARAMETERS										
Naphthalene	ND	ug/l	1.01	1.00	1	1/ 4/01	19:40	Noorbakhsh	8310	5773
Acenaphthene	ND	ug/l	1.01	1.00	1	1/ 4/01	19:40	Noorbakhsh	8310	5773
Anthracene	ND	ug/l	0.67	0.66	1	1/ 4/01	19:40	Noorbakhsh	8310	5773
Fluoranthene	ND	ug/l	0.21	0.21	1	1/ 4/01	19:40	Noorbakhsh	8310	5773
Fluorene	ND	ug/l	0.51	0.50	1	1/ 4/01	19:40	Noorbakhsh	8310	5773
Pyrene	ND	ug/l	0.27	0.27	1	1/ 4/01	19:40	Noorbakhsh	8310	5773
Benzo(a)anthracene	ND	ug/l	0.13	0.13	1	1/ 4/01	19:40	Noorbakhsh	8310	5773
Benzo(a)pyrene	ND	ug/l	0.10	0.10	1	1/ 4/01	19:40	Noorbakhsh	8310	5773
Benzo(b)fluoranthene	ND	ug/l	0.18	0.18	1	1/ 4/01	19:40	Noorbakhsh	8310	5773
Benzo(k)fluoranthene	ND	ug/l	0.17	0.17	1	1/ 4/01	19:40	Noorbakhsh	8310	5773
Chrysene	ND	ug/l	0.15	0.15	1	1/ 4/01	19:40	Noorbakhsh	8310	5773
Dibenzo(a,h)anthracene	ND	ug/l	0.30	0.30	1	1/ 4/01	19:40	Noorbakhsh	8310	5773
Indeno(1,2,3-cd)pyrene	ND	ug/l	0.43	0.43	1	1/ 4/01	19:40	Noorbakhsh	8310	5773
Acenaphthylene	ND	ug/l	2.02	2.00	1	1/ 4/01	19:40	Noorbakhsh	8310	5773
Benzo(g,h,i)perylene	ND	ug/l	0.77	0.76	1	1/ 4/01	19:40	Noorbakhsh	8310	5773
Phenanthrene	ND	ug/l	0.65	0.64	1	1/ 4/01	19:40	Noorbakhsh	8310	5773
1-Methylnapthalene	ND	ug/l	1.01	1.00	1	1/ 4/01	19:40	Noorbakhsh	8310	5773
2-Methylnaphthalene	ND	ug/l	1.01	1.00	1	1/ 4/01	19:40	Noorbakhsh	8310	5773
MISCELLANEOUS CHEMISTRY										
pH	6.50	pH Units			1	12/26/00	8:50	K. Stewart	9040/150.1	1168

ND = Not detected at the report limit.

Sample report continued . . .

TestAmerica
INCORPORATED

ANALYTICAL REPORT

Laboratory Number: 00-A183951
Sample ID: 029-SMW02-Q4-00-07

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
PAH's	990. ml	1.00 ml	12/26/00		J. Rudden	3510/610

Surrogate	% Recovery	Target Range
PAH Surr., p-terphenyl d14	33.	12. - 152.

= Recovery outside Laboratory historical limits.

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Report Approved By: _____ Report Date: 1/ 5/01

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Glenn L. Norton, Technical Serv.
Kelly S. Comstock, Technical Serv.
Pamela A. Langford, Technical Serv.

Laboratory Certification Number: HRS-E87358

End of Sample Report.

TestAmerica
INCORPORATED

ANALYTICAL REPORT

ACCURA ANALYTICAL 2656

6017 FINANCIAL DR.
NORCROSS, GA 30071

Project: #26563
Project Name: ACCURA ANALYTICAL LABORA
Sampler:

Lab Number: 00-A183952
Sample ID: 029-SMW03-Q4-00-07
Sample Type: Ground water
Site ID:

Date Collected: 12/20/00
Time Collected: 10:40
Date Received: 12/22/00
Time Received: 9:00

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
ORGANIC PARAMETERS										
Naphthalene	ND	ug/l	1.02	1.00	1	1/ 4/01	19:40	Noorbakhsh	8310	5773
Acenaphthene	ND	ug/l	1.02	1.00	1	1/ 4/01	19:40	Noorbakhsh	8310	5773
Anthracene	ND	ug/l	0.67	0.66	1	1/ 4/01	19:40	Noorbakhsh	8310	5773
Fluoranthene	ND	ug/l	0.21	0.21	1	1/ 4/01	19:40	Noorbakhsh	8310	5773
Fluorene	ND	ug/l	0.51	0.50	1	1/ 4/01	19:40	Noorbakhsh	8310	5773
Pyrene	ND	ug/l	0.28	0.27	1	1/ 4/01	19:40	Noorbakhsh	8310	5773
Benzo(a)anthracene	ND	ug/l	0.13	0.13	1	1/ 4/01	19:40	Noorbakhsh	8310	5773
Benzo(a)pyrene	ND	ug/l	0.10	0.10	1	1/ 4/01	19:40	Noorbakhsh	8310	5773
Benzo(b)fluoranthene	ND	ug/l	0.18	0.18	1	1/ 4/01	19:40	Noorbakhsh	8310	5773
Benzo(k)fluoranthene	ND	ug/l	0.17	0.17	1	1/ 4/01	19:40	Noorbakhsh	8310	5773
Chrysene	ND	ug/l	0.15	0.15	1	1/ 4/01	19:40	Noorbakhsh	8310	5773
Dibenzo(a,h)anthracene	ND	ug/l	0.31	0.30	1	1/ 4/01	19:40	Noorbakhsh	8310	5773
Indeno(1,2,3-cd)pyrene	ND	ug/l	0.44	0.43	1	1/ 4/01	19:40	Noorbakhsh	8310	5773
Acenaphthylene	ND	ug/l	2.04	2.00	1	1/ 4/01	19:40	Noorbakhsh	8310	5773
Benzo(g,h,i)perylene	ND	ug/l	0.78	0.76	1	1/ 4/01	19:40	Noorbakhsh	8310	5773
Phenanthrene	ND	ug/l	0.65	0.64	1	1/ 4/01	19:40	Noorbakhsh	8310	5773
1-Methylnapthalene	ND	ug/l	1.02	1.00	1	1/ 4/01	19:40	Noorbakhsh	8310	5773
2-Methylnaphthalene	ND	ug/l	1.02	1.00	1	1/ 4/01	19:40	Noorbakhsh	8310	5773
MISCELLANEOUS CHEMISTRY										
pH	4.40	pH Units			1	12/26/00	8:50	K. Stewart	9040/150.1	1168

ND - Not detected at the report limit.

Sample report continued . . .

TestAmerica
INCORPORATED

ANALYTICAL REPORT

Laboratory Number: 00-A183952
Sample ID: 029-SMW03-Q4-00-07

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
PAH's	980. ml	1.00 ml	12/26/00		J. Rudden	3510/610

Surrogate	% Recovery	Target Range
PAH Surr., p-terphenyl d14	53.	12. - 152.

- Recovery outside Laboratory historical limits.

These results relate only to the items tested.
This report shall not be reproduced except in full and with permission of the laboratory.

Report Approved By: _____ Report Date: 1/ 5/01

Paul E. Lane, Jr., Lab Director
Michael H. Dunn, M.S., Technical Director
Johnny A. Mitchell, Dir. Technical Serv.
Eric S. Smith, Assistant Technical Director
Gail A. Lage, Technical Serv.
Glenn L. Norton, Technical Serv.
Kelly S. Comstock, Technical Serv.
Pamela A. Langford, Technical Serv.

Laboratory Certification Number: HRS-E87358

End of Sample Report.

TestAmerica
INCORPORATED

ANALYTICAL REPORT

ACCURA ANALYTICAL 2656

6017 FINANCIAL DR.
NORCROSS, GA 30071

Project: #26563
Project Name: ACCURA ANALYTICAL LABORA
Sampler:

Lab Number: 00-A183953
Sample ID: 029-SMW07-Q4-00-07
Sample Type: Ground water
Site ID:

Date Collected: 12/20/00
Time Collected: 14:05
Date Received: 12/22/00
Time Received: 9:00

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
ORGANIC PARAMETERS										
Naphthalene	ND	ug/l	11.1	1.00	1	1/ 4/01	19:40	Noorbakhsh	8310	5773
Acenaphthene	ND	ug/l	11.1	1.00	1	1/ 4/01	19:40	Noorbakhsh	8310	5773
Anthracene	ND	ug/l	7.33	0.66	1	1/ 4/01	19:40	Noorbakhsh	8310	5773
Fluoranthene	ND	ug/l	2.33	0.21	1	1/ 4/01	19:40	Noorbakhsh	8310	5773
Fluorene	ND	ug/l	5.56	0.50	1	1/ 4/01	19:40	Noorbakhsh	8310	5773
Pyrene	ND	ug/l	3.00	0.27	1	1/ 4/01	19:40	Noorbakhsh	8310	5773
Benzo(a)anthracene	ND	ug/l	1.44	0.13	1	1/ 4/01	19:40	Noorbakhsh	8310	5773
Benzo(a)pyrene	ND	ug/l	1.11	0.10	1	1/ 4/01	19:40	Noorbakhsh	8310	5773
Benzo(b)fluoranthene	ND	ug/l	2.00	0.18	1	1/ 4/01	19:40	Noorbakhsh	8310	5773
Benzo(k)fluoranthene	ND	ug/l	1.89	0.17	1	1/ 4/01	19:40	Noorbakhsh	8310	5773
Chrysene	ND	ug/l	1.67	0.15	1	1/ 4/01	19:40	Noorbakhsh	8310	5773
Dibenzo(a,h)anthracene	ND	ug/l	3.33	0.30	1	1/ 4/01	19:40	Noorbakhsh	8310	5773
Indeno(1,2,3-cd)pyrene	ND	ug/l	4.78	0.43	1	1/ 4/01	19:40	Noorbakhsh	8310	5773
Acenaphthylene	ND	ug/l	22.2	2.00	1	1/ 4/01	19:40	Noorbakhsh	8310	5773
Benzo(g,h,i)perylene	ND	ug/l	8.44	0.76	1	1/ 4/01	19:40	Noorbakhsh	8310	5773
Phenanthrene	ND	ug/l	7.11	0.64	1	1/ 4/01	19:40	Noorbakhsh	8310	5773
1-Methylnapthalene	ND	ug/l	11.1	1.00	1	1/ 4/01	19:40	Noorbakhsh	8310	5773
2-Methylnaphthalene	ND	ug/l	11.1	1.00	1	1/ 4/01	19:40	Noorbakhsh	8310	5773
MISCELLANEOUS CHEMISTRY										
pH	6.20	pH Units			1	12/26/00	8:54	K. Stewart	9040/150.1	1168

ND = Not detected at the report limit.

Sample report continued . . .

TestAmerica
INCORPORATED

ANALYTICAL REPORT

Laboratory Number: 00-A183953
Sample ID: 029-SMW07-Q4-00-07

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
PAH's	90. ml	1.00 ml	12/26/00		J. Rudden	3510/610

Surrogate	% Recovery	Target Range
PAH Surr., p-terphenyl d14	19.	12. - 152.

= Recovery outside Laboratory historical limits.

These results relate only to the items tested.
This report shall not be reproduced except in full and with permission of the laboratory.

Report Approved By: _____ Report Date: 1/ 5/01

Paul E. Lane, Jr., Lab Director
Michael H. Dunn, M.S., Technical Director
Johnny A. Mitchell, Dir. Technical Serv.
Eric S. Smith, Assistant Technical Director
Gail A. Lage, Technical Serv.
Glenn L. Norton, Technical Serv.
Kelly S. Comstock, Technical Serv.
Pamela A. Langford, Technical Serv.

Laboratory Certification Number: HRS-E87358

End of Sample Report.

TestAmerica
INCORPORATED

ANALYTICAL REPORT

ACCURA ANALYTICAL 2656

6017 FINANCIAL DR.
NORCROSS, GA 30071

Project: #26563
Project Name: ACCURA ANALYTICAL LABORA
Sampler:

Lab Number: 00-A183954
Sample ID: 029-SMW10-Q4-00-07
Sample Type: Ground water
Site ID:

Date Collected: 12/20/00
Time Collected: 13:25
Date Received: 12/22/00
Time Received: 9:00

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
ORGANIC PARAMETERS										
Naphthalene	ND	ug/l	1.01	1.00	1	1/ 4/01	19:40	Noorbakhsh	8310	5773
Acenaphthene	ND	ug/l	1.01	1.00	1	1/ 4/01	19:40	Noorbakhsh	8310	5773
Anthracene	ND	ug/l	0.67	0.66	1	1/ 4/01	19:40	Noorbakhsh	8310	5773
Fluoranthene	ND	ug/l	0.21	0.21	1	1/ 4/01	19:40	Noorbakhsh	8310	5773
Fluorene	ND	ug/l	0.51	0.50	1	1/ 4/01	19:40	Noorbakhsh	8310	5773
Pyrene	ND	ug/l	0.27	0.27	1	1/ 4/01	19:40	Noorbakhsh	8310	5773
Benzo(a)anthracene	ND	ug/l	0.13	0.13	1	1/ 4/01	19:40	Noorbakhsh	8310	5773
Benzo(a)pyrene	ND	ug/l	0.10	0.10	1	1/ 4/01	19:40	Noorbakhsh	8310	5773
Benzo(b)fluoranthene	ND	ug/l	0.18	0.18	1	1/ 4/01	19:40	Noorbakhsh	8310	5773
Benzo(k)fluoranthene	ND	ug/l	0.17	0.17	1	1/ 4/01	19:40	Noorbakhsh	8310	5773
Chrysene	ND	ug/l	0.15	0.15	1	1/ 4/01	19:40	Noorbakhsh	8310	5773
Dibenzo(a,h)anthracene	ND	ug/l	0.30	0.30	1	1/ 4/01	19:40	Noorbakhsh	8310	5773
Indeno(1,2,3-cd)pyrene	ND	ug/l	0.43	0.43	1	1/ 4/01	19:40	Noorbakhsh	8310	5773
Acenaphthylene	ND	ug/l	2.02	2.00	1	1/ 4/01	19:40	Noorbakhsh	8310	5773
Benzo(g,h,i)perylene	ND	ug/l	0.77	0.76	1	1/ 4/01	19:40	Noorbakhsh	8310	5773
Phenanthrene	ND	ug/l	0.65	0.64	1	1/ 4/01	19:40	Noorbakhsh	8310	5773
1-Methylnapthalene	ND	ug/l	1.01	1.00	1	1/ 4/01	19:40	Noorbakhsh	8310	5773
2-Methylnaphthalene	ND	ug/l	1.01	1.00	1	1/ 4/01	19:40	Noorbakhsh	8310	5773
MISCELLANEOUS CHEMISTRY										
pH	4.20	pH Units			1	12/26/00	8:54	K. Stewart	9040/150.1	1168

ND = Not detected at the report limit.

Sample report continued . . .

TestAmerica
INCORPORATED

ANALYTICAL REPORT

Laboratory Number: 00-A183954
Sample ID: 029-SMW10-Q4-00-07

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
PAH's	990. ml	1.00 ml	12/26/00		J. Rudden	3510/610

Surrogate	% Recovery	Target Range
PAH Surr., p-terphenyl d14	52.	12. - 152.

= Recovery outside Laboratory historical limits.

These results relate only to the items tested.
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Report Approved By: _____ Report Date: 1/ 5/01

Paul E. Lane, Jr., Lab Director
Michael H. Dunn, M.S., Technical Director
Johnny A. Mitchell, Dir. Technical Serv.
Eric S. Smith, Assistant Technical Director
Gail A. Lage, Technical Serv.
Glenn L. Norton, Technical Serv.
Kelly S. Comstock, Technical Serv.
Pamela A. Langford, Technical Serv.

Laboratory Certification Number: HRS-E87358

End of Sample Report.

TestAmerica
INCORPORATED

ANALYTICAL REPORT

ACCURA ANALYTICAL 2656

6017 FINANCIAL DR.
NORCROSS, GA 30071

Project: #26563
Project Name: ACCURA ANALYTICAL LABORA
Sampler:

Lab Number: 00-A183955
Sample ID: 029-SMW11-Q4-00-07
Sample Type: Ground water
Site ID:

Date Collected: 12/20/00
Time Collected: 11:25
Date Received: 12/22/00
Time Received: 9:00

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
ORGANIC PARAMETERS										
Naphthalene	11.2	ug/l	1.01	1.00	1	1/ 4/01	19:40	Noorbakhsh	8310	5773
Acenaphthene	ND	ug/l	1.01	1.00	1	1/ 4/01	19:40	Noorbakhsh	8310	5773
Anthracene	ND	ug/l	0.67	0.66	1	1/ 4/01	19:40	Noorbakhsh	8310	5773
Fluoranthene	ND	ug/l	0.21	0.21	1	1/ 4/01	19:40	Noorbakhsh	8310	5773
Fluorene	ND	ug/l	0.51	0.50	1	1/ 4/01	19:40	Noorbakhsh	8310	5773
Pyrene	ND	ug/l	0.27	0.27	1	1/ 4/01	19:40	Noorbakhsh	8310	5773
Benzo(a)anthracene	ND	ug/l	0.13	0.13	1	1/ 4/01	19:40	Noorbakhsh	8310	5773
Benzo(a)pyrene	ND	ug/l	0.10	0.10	1	1/ 4/01	19:40	Noorbakhsh	8310	5773
Benzo(b)fluoranthene	ND	ug/l	0.18	0.18	1	1/ 4/01	19:40	Noorbakhsh	8310	5773
Benzo(k)fluoranthene	ND	ug/l	0.17	0.17	1	1/ 4/01	19:40	Noorbakhsh	8310	5773
Chrysene	ND	ug/l	0.15	0.15	1	1/ 4/01	19:40	Noorbakhsh	8310	5773
Dibenzo(a,h)anthracene	ND	ug/l	0.30	0.30	1	1/ 4/01	19:40	Noorbakhsh	8310	5773
Indeno(1,2,3-cd)pyrene	ND	ug/l	0.43	0.43	1	1/ 4/01	19:40	Noorbakhsh	8310	5773
Acenaphthylene	ND	ug/l	2.02	2.00	1	1/ 4/01	19:40	Noorbakhsh	8310	5773
Benzo(g,h,i)perylene	ND	ug/l	0.77	0.76	1	1/ 4/01	19:40	Noorbakhsh	8310	5773
Phenanthrene	ND	ug/l	0.65	0.64	1	1/ 4/01	19:40	Noorbakhsh	8310	5773
1-Methylnapthalene	6.23	ug/l	1.01	1.00	1	1/ 4/01	19:40	Noorbakhsh	8310	5773
2-Methylnaphthalene	4.81	ug/l	1.01	1.00	1	1/ 4/01	19:40	Noorbakhsh	8310	5773
MISCELLANEOUS CHEMISTRY										
pH	6.50	pH Units			1	12/26/00	8:57	K. Stewart	9040/150.1	1168

ND = Not detected at the report limit.

Sample report continued . . .

TestAmerica
INCORPORATED

ANALYTICAL REPORT

Laboratory Number: 00-A183955
Sample ID: 029-SMW11-Q4-00-07

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
PAH's	990. ml	1.00 ml	12/26/00		J. Rudden	3510/610

Surrogate	% Recovery	Target Range
PAH Surr., p-terphenyl d14	37.	12. - 152.

= Recovery outside Laboratory historical limits.

These results relate only to the items tested.
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Report Approved By: _____ Report Date: 1/ 5/01

Paul E. Lane, Jr., Lab Director
Michael H. Dunn, M.S., Technical Director
Johnny A. Mitchell, Dir. Technical Serv.
Eric S. Smith, Assistant Technical Director
Gail A. Lage, Technical Serv.
Glenn L. Norton, Technical Serv.
Kelly S. Comstock, Technical Serv.
Pamela A. Langford, Technical Serv.

Laboratory Certification Number: HRS-E87358

End of Sample Report.

TestAmerica
INCORPORATED

ANALYTICAL REPORT

ACCURA ANALYTICAL 2656

6017 FINANCIAL DR.
NORCROSS, GA 30071

Project: #26563
Project Name: ACCURA ANALYTICAL LABORA
Sampler:

Lab Number: 00-A183956
Sample ID: 029-DUP-Q4-00-07
Sample Type: Ground water
Site ID:

Date Collected: 12/20/00
Time Collected:
Date Received: 12/22/00
Time Received: 9:00

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
ORGANIC PARAMETERS										
Naphthalene	ND	ug/l	1.01	1.00	1	1/ 4/01	19:40	Noorbakhsh	8310	5773
Acenaphthene	ND	ug/l	1.01	1.00	1	1/ 4/01	19:40	Noorbakhsh	8310	5773
Anthracene	ND	ug/l	0.67	0.66	1	1/ 4/01	19:40	Noorbakhsh	8310	5773
Fluoranthene	ND	ug/l	0.21	0.21	1	1/ 4/01	19:40	Noorbakhsh	8310	5773
Fluorene	ND	ug/l	0.51	0.50	1	1/ 4/01	19:40	Noorbakhsh	8310	5773
Pyrene	ND	ug/l	0.27	0.27	1	1/ 4/01	19:40	Noorbakhsh	8310	5773
Benzo(a)anthracene	ND	ug/l	0.13	0.13	1	1/ 4/01	19:40	Noorbakhsh	8310	5773
Benzo(a)pyrene	ND	ug/l	0.10	0.10	1	1/ 4/01	19:40	Noorbakhsh	8310	5773
Benzo(b)fluoranthene	ND	ug/l	0.18	0.18	1	1/ 4/01	19:40	Noorbakhsh	8310	5773
Benzo(k)fluoranthene	ND	ug/l	0.17	0.17	1	1/ 4/01	19:40	Noorbakhsh	8310	5773
Chrysene	ND	ug/l	0.15	0.15	1	1/ 4/01	19:40	Noorbakhsh	8310	5773
Dibenzo(a,h)anthracene	ND	ug/l	0.30	0.30	1	1/ 4/01	19:40	Noorbakhsh	8310	5773
Indeno(1,2,3-cd)pyrene	ND	ug/l	0.43	0.43	1	1/ 4/01	19:40	Noorbakhsh	8310	5773
Acenaphthylene	ND	ug/l	2.02	2.00	1	1/ 4/01	19:40	Noorbakhsh	8310	5773
Benzo(g,h,i)perylene	ND	ug/l	0.77	0.76	1	1/ 4/01	19:40	Noorbakhsh	8310	5773
Phenanthrene	ND	ug/l	0.65	0.64	1	1/ 4/01	19:40	Noorbakhsh	8310	5773
1-Methylnapthalene	ND	ug/l	1.01	1.00	1	1/ 4/01	19:40	Noorbakhsh	8310	5773
2-Methylnaphthalene	ND	ug/l	1.01	1.00	1	1/ 4/01	19:40	Noorbakhsh	8310	5773
MISCELLANEOUS CHEMISTRY										
pH	4.20	pH Units			1	12/26/00	8:57	K. Stewart	9040/150.1	1168

ND - Not detected at the report limit.

Sample report continued . . .

TestAmerica
INCORPORATED

ANALYTICAL REPORT

Laboratory Number: 00-A183956
Sample ID: 029-DUP-Q4-00-07

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
PAH's	990. ml	1.00 ml	12/26/00		J. Rudden	3510/610

Surrogate	% Recovery	Target Range
PAH Surr., p-terphenyl d14	39.	12. - 152.

= Recovery outside Laboratory historical limits.

These results relate only to the items tested.
This report shall not be reproduced except in full and with permission of the laboratory.

Report Approved By: E S Smith Report Date: 1/ 5/01

Paul E. Lane, Jr., Lab Director
Michael H. Dunn, M.S., Technical Director
Johnny A. Mitchell, Dir. Technical Serv.
Eric S. Smith, Assistant Technical Director
Gail A. Lage, Technical Serv.
Glenn L. Norton, Technical Serv.
Kelly S. Comstock, Technical Serv.
Pamela A. Langford, Technical Serv.

Laboratory Certification Number: HRS-E87358

End of Sample Report.

TestAmerica
INCORPORATED

ANALYTICAL REPORT

ACCURA ANALYTICAL 2656

6017 FINANCIAL DR.
NORCROSS, GA 30071

Project: #26563
Project Name: ACCURA ANALYTICAL LABORA
Sampler:

Lab Number: 00-A183957
Sample ID: 029-EQB-Q4-00-07
Sample Type: Ground water
Site ID:

Date Collected: 12/20/00
Time Collected: 10:50
Date Received: 12/22/00
Time Received: 9:00

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
ORGANIC PARAMETERS										
Naphthalene	ND	ug/l	1.01	1.00	1	1/ 4/01	19:40	Noorbakhsh	8310	5773
Acenaphthene	ND	ug/l	1.01	1.00	1	1/ 4/01	19:40	Noorbakhsh	8310	5773
Anthracene	ND	ug/l	0.67	0.66	1	1/ 4/01	19:40	Noorbakhsh	8310	5773
Fluoranthene	ND	ug/l	0.21	0.21	1	1/ 4/01	19:40	Noorbakhsh	8310	5773
Fluorene	ND	ug/l	0.51	0.50	1	1/ 4/01	19:40	Noorbakhsh	8310	5773
Pyrene	ND	ug/l	0.27	0.27	1	1/ 4/01	19:40	Noorbakhsh	8310	5773
Benzo(a)anthracene	ND	ug/l	0.13	0.13	1	1/ 4/01	19:40	Noorbakhsh	8310	5773
Benzo(a)pyrene	ND	ug/l	0.10	0.10	1	1/ 4/01	19:40	Noorbakhsh	8310	5773
Benzo(b)fluoranthene	ND	ug/l	0.18	0.18	1	1/ 4/01	19:40	Noorbakhsh	8310	5773
Benzo(k)fluoranthene	ND	ug/l	0.17	0.17	1	1/ 4/01	19:40	Noorbakhsh	8310	5773
Chrysene	ND	ug/l	0.15	0.15	1	1/ 4/01	19:40	Noorbakhsh	8310	5773
Dibenzo(a,h)anthracene	ND	ug/l	0.30	0.30	1	1/ 4/01	19:40	Noorbakhsh	8310	5773
Indeno(1,2,3-cd)pyrene	ND	ug/l	0.43	0.43	1	1/ 4/01	19:40	Noorbakhsh	8310	5773
Acenaphthylene	ND	ug/l	2.02	2.00	1	1/ 4/01	19:40	Noorbakhsh	8310	5773
Benzo(g,h,i)perylene	ND	ug/l	0.77	0.76	1	1/ 4/01	19:40	Noorbakhsh	8310	5773
Phenanthrene	ND	ug/l	0.65	0.64	1	1/ 4/01	19:40	Noorbakhsh	8310	5773
1-Methylnapthalene	ND	ug/l	1.01	1.00	1	1/ 4/01	19:40	Noorbakhsh	8310	5773
2-Methylnaphthalene	ND	ug/l	1.01	1.00	1	1/ 4/01	19:40	Noorbakhsh	8310	5773
MISCELLANEOUS CHEMISTRY										
pH	6.70	pH Units			1	12/26/00	9:00	K. Stewart	9040/150.1	1168

ND - Not detected at the report limit.

Sample report continued . . .

TestAmerica
INCORPORATED

ANALYTICAL REPORT

Laboratory Number: 00-A183957
Sample ID: 029-EQB-Q4-00-07

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
PAH's	990. ml	1.00 ml	12/26/00		J. Rudden	3510/610

Surrogate	% Recovery	Target Range
PAH Surr., p-terphenyl d14	75.	12. - 152.

= Recovery outside Laboratory historical limits.

These results relate only to the items tested.
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Report Approved By: E S Smith Report Date: 1/ 5/01

Paul E. Lane, Jr., Lab Director
Michael H. Dunn, M.S., Technical Director
Johnny A. Mitchell, Dir. Technical Serv.
Eric S. Smith, Assistant Technical Director
Gail A. Lage, Technical Serv.
Glenn L. Norton, Technical Serv.
Kelly S. Comstock, Technical Serv.
Pamela A. Langford, Technical Serv.

Laboratory Certification Number: HRS-E87358

End of Sample Report.

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PROJECT QUALITY CONTROL DATA

Matrix Spike Recovery

Analyte	units	Orig. Val.	MS Val	Spike Conc	Recovery	Target Range	Q.C. Batch	Spike Sample
UST ANALYSIS								
Naphthalene	mg/l	0.0112	0.128	0.0100	1170#	10. - 116.	5773	00-A183955
Acenaphthene	mg/l	< 0.00101	0.00440	0.0100	44	10. - 101.	5773	00-A183955
Anthracene	mg/l	< 0.00067	0.0114	0.0100	114#	10. - 100.	5773	00-A183955
Fluoranthene	mg/l	< 0.00021	0.0128	0.0100	128	37. - 137.	5773	00-A183955
Fluorene	mg/l	< 0.00051	0.0114	0.0100	114#	17. - 96.	5773	00-A183955
Pyrene	mg/l	< 0.00027	0.0132	0.0100	132#	26. - 129.	5773	00-A183955
Benzo(a)anthracene	mg/l	< 0.00013	0.0104	0.0100	104	29. - 130.	5773	00-A183955
Benzo(a)pyrene	mg/l	< 0.00010	0.00900	0.0100	90	22. - 128.	5773	00-A183955
Benzo(b)fluoranthene	mg/l	< 0.00018	0.0114	0.0100	114	27. - 130.	5773	00-A183955
Benzo(k)fluoranthene	mg/l	< 0.00017	0.00960	0.0100	96	26. - 134.	5773	00-A183955
Chrysene	mg/l	< 0.00015	0.00900	0.0100	90	25. - 132.	5773	00-A183955
Dibenzo(a,h)anthracene	mg/l	< 0.00030	0.0108	0.0100	108	18. - 136.	5773	00-A183955
Indeno(1,2,3-cd)pyrene	mg/l	< 0.00043	0.00880	0.0100	88	18. - 135.	5773	00-A183955
Acenaphthylene	mg/l	< 0.00202	0.00500	0.0100	50	10. - 110.	5773	00-A183955
Benzo(g,h,i)perylene	mg/l	< 0.00077	0.00880	0.0100	88	24. - 135.	5773	00-A183955
Phenanthrene	mg/l	< 0.00065	0.0156	0.0100	156#	17. - 108.	5773	00-A183955
1-Methylnapthalene	mg/l	0.00623	0.0716	0.0100	654#	10. - 122.	5773	00-A183955
2-Methylnaphthalene	mg/l	0.00481	0.0474	0.0100	426#	10. - 109.	5773	00-A183955

Matrix Spike Duplicate

Analyte	units	Orig. Val.	Duplicate	RPD	Limit	Q.C. Batch
UST PARAMETERS						
Naphthalene	mg/l	0.128	0.156	19.72	70.	5773
Acenaphthene	mg/l	0.00440	0.00480	8.70	77.	5773
Anthracene	mg/l	0.0114	0.0144	23.26	62.	5773
Fluoranthene	mg/l	0.0128	0.0164	24.66	64.	5773
Fluorene	mg/l	0.0114	0.0138	19.05	61.	5773
Pyrene	mg/l	0.0132	0.0164	21.62	62.	5773
Benzo(a)anthracene	mg/l	0.0104	0.0122	15.93	59.	5773
Benzo(a)pyrene	mg/l	0.00900	0.00860	4.55	62.	5773

Project QC continued . . .

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PROJECT QUALITY CONTROL DATA

Matrix Spike Duplicate

Analyte	units	Orig. Val.	Duplicate	RPD	Limit	Q.C. Batch
Benzo(b)fluoranthene	mg/l	0.0114	0.00920	21.36	59.	5773
Benzo(k)fluoranthene	mg/l	0.00960	0.00960	0.00	59.	5773
Chrysene	mg/l	0.00900	0.0110	20.00	58.	5773
Dibenzo(a,h)anthracene	mg/l	0.0108	0.00680	45.45	64.	5773
Indeno(1,2,3-cd)pyrene	mg/l	0.00880	0.00800	9.52	70.	5773
Acenaphthylene	mg/l	0.00500	< 0.00400	22.22	91.	5773
Benzo(g,h,i)perylene	mg/l	0.00880	0.00620	34.67	69.	5773
Phenanthrene	mg/l	0.0156	0.0184	16.47	65.	5773
1-Methylnapthalene	mg/l	0.0716	0.0886	21.22	31.	5773
2-Methylnaphthalene	mg/l	0.0474	0.0588	21.47	79.	5773

Laboratory Control Data

Analyte	units	Known Val.	Analyzed Val	% Recovery	Target Range	Q.C. Batch
UST PARAMETERS						
Naphthalene	mg/l	0.0100	0.0156	156 #	20 - 151	5773
Acenaphthene	mg/l	0.0100	0.00820	82	18 - 134	5773
Anthracene	mg/l	0.0100	0.0122	122 #	38 - 97	5773
Fluoranthene	mg/l	0.0100	0.0136	136	40 - 143	5773
Fluorene	mg/l	0.0100	0.0124	124 #	33 - 105	5773
Pyrene	mg/l	0.0100	0.0126	126	33 - 129	5773
Benzo(a)anthracene	mg/l	0.0100	0.0132	132 #	47 - 113	5773
Benzo(a)pyrene	mg/l	0.0100	0.0126	126 #	34 - 119	5773
Benzo(b)fluoranthene	mg/l	0.0100	0.0128	128 #	47 - 113	5773
Benzo(k)fluoranthene	mg/l	0.0100	0.0130	130 #	48 - 118	5773
Chrysene	mg/l	0.0100	0.0152	152 #	45 - 115	5773
Dibenzo(a,h)anthracene	mg/l	0.0100	0.0150	150 #	42 - 113	5773
Indeno(1,2,3-cd)pyrene	mg/l	0.0100	0.0128	128 #	38 - 114	5773
Acenaphthylene	mg/l	0.0100	0.0124	124	20 - 140	5773
Benzo(g,h,i)perylene	mg/l	0.0100	0.0128	128	42 - 130	5773
Phenanthrene	mg/l	0.0100	0.0128	128 #	37 - 105	5773
1-Methylnapthalene	mg/l	0.0100	0.00920	92	10 - 118	5773
2-Methylnaphthalene	mg/l	0.0100	0.00800	80	10 - 118	5773

Project QC continued . . .

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PROJECT QUALITY CONTROL DATA

Duplicates

Analyte	units	Orig. Val.	Duplicate	RPD	Limit	Q.C. Batch	Sample Dup'd
pH	pH Units	6.50	6.50	0.00	15.	1168	00-A183955

Blank Data

Analyte	Blank Value	Units	Q.C. Batch	Date Analyzed	Time Analyzed
UST PARAMETERS					
Naphthalene	< 0.00100	mg/l	5773	1/ 4/01	19:40
Acenaphthene	< 0.00100	mg/l	5773	1/ 4/01	19:40
Anthracene	< 0.00066	mg/l	5773	1/ 4/01	19:40
Fluoranthene	< 0.00021	mg/l	5773	1/ 4/01	19:40
Fluorene	< 0.00050	mg/l	5773	1/ 4/01	19:40
Pyrene	< 0.00027	mg/l	5773	1/ 4/01	19:40
Benzo(a)anthracene	< 0.00013	mg/l	5773	1/ 4/01	19:40
Benzo(a)pyrene	< 0.00010	mg/l	5773	1/ 4/01	19:40
Benzo(b)fluoranthene	< 0.00018	mg/l	5773	1/ 4/01	19:40
Benzo(k)fluoranthene	< 0.00017	mg/l	5773	1/ 4/01	19:40
Chrysene	< 0.00015	mg/l	5773	1/ 4/01	19:40
Dibenzo(a,h)anthracene	< 0.00030	mg/l	5773	1/ 4/01	19:40
Indeno(1,2,3-cd)pyrene	< 0.00043	mg/l	5773	1/ 4/01	19:40
Acenaphthylene	< 0.00200	mg/l	5773	1/ 4/01	19:40
Benzo(g,h,i)perylene	< 0.00076	mg/l	5773	1/ 4/01	19:40
Phenanthrene	< 0.00064	mg/l	5773	1/ 4/01	19:40
1-Methylnapthalene	< 0.00100	mg/l	5773	1/ 4/01	19:40
2-Methylnaphthalene	< 0.00100	mg/l	5773	1/ 4/01	19:40
PAH Surr., p-terphenyl d14	96.	% Rec	5773	1/ 4/01	19:40

- Value outside Laboratory historical QC limits.

End of Report for Project 220787

ACCURA ANALYTICAL LABORATORY, INC.

Environmental Analytical Services

FAX COC TO NORCROSS

220787 **SUBCONTRACTOR CHAIN OF CUSTODY**

SUBCONTRACTED TO: **TEST AMERICA, INC.**

Subcontracted by: ACCURA ANALYTICAL LABORATORY, INC **(Acct# 2656)**

Address: 6017 Financial Drive, Norcross, GA 30071

Accura Lab Contact Name: ~~Mr. David Fuller~~ Ms. Bonnie Hogue

Contact Phone # (770) 449 - 8800, ext. ~~204~~ 233

Fax Number: (770) 449 - 5477

AAL PROJECT #: ~~25~~ DD 26563 12/21/00

Quote Number: 0301001102199

12/21/00 DD

For Laboratory Use Only

Custody Seal: (Y) N

QC Level: N 1 2 3 4

Entered into LIMS: 12/22/00

Page 1 OF 1

Init/Temp: 2.5°C

LAB Project # 220787

Sample Condition:

AAL #	Sample Date / Time	Comp	Grab	Matrix	Preserved	Station Location:	No. of Containers	PAH's (8310) *	Remarks	LAB #
AC	12/20/00 09:30		X	W	4°	029-SMW01-Q4-00-07	2	X	* CCI-NAVY	183950
AC	12:10					029-SMW02-Q4-00-07	2		DATA PACKAGE III/C	951
AC	10:40					029-SMW03-Q4-00-07	2		REQUIRED.	952
AC	14:05					029-SMW07-Q4-00-07	2			953
AC	13:25					029-SMW10-Q4-00-07	2			954
AC	11:25					029-SMW11-Q4-00-07	4		MS/MSD	955
AC						029-DUP-Q4-00-07	2			956
AC	10:50					029-EQB-Q4-00-07	2			183957
AC										
AC										

Relinquished By:	Date / Time	Received By:	Date / Time	Special Requirements Or Remarks:
B. Hunt	12/21/00 12:19		12/21 12:20	12/21/00 DD ~~PLEASE FAX RESULTS!!~~ FAX PRELIMINARY
Relinquished By:	Date / Time	Received By:	Date / Time	Turnaround Time Requested:
	12/21 17:00			14 day Preliminary / 21 day Final

Matrix Guide: (S = Soil) (W = Water) (L = Liquid) (C = Cartridge) (SL = Sludge) (A = Air Sample) (F = Foods) (M = Miscellaneous) (D = Digestate)

TestAmerica-sub-coc Revised 05/10/00

ACCURA ANALYTICAL LABORATORY, INC.

6017 Financial Drive, Norcross, Georgia, 30071, Phone (770) 449-8800

CASE NARRATIVE for Project Number: 27420
Client Project: NAS Cecil Field 103rd St. Quartely GW / 154282/CTO 0029
CTO Manager: Bill Canelos

The following items were noted concerning this project:

1. The following samples were received by Accura Analytical Laboratory on 03/28/01 at 1025:

Client I.D.	Laboratory I.D.
029-SWM01-Q1-01-10	AC10497
029-SWM02-Q1-01-10	AC10498
029-SWM03-Q1-01-10	AC10499
029-SWM07-Q1-01-10	AC10500
029-SWM10-Q1-01-10	AC10501
029-SWM11-Q1-01-10	AC10502
029-DUP-Q1-01-10	AC10503
029-EQB-Q1-01-10	AC10504
029-TB-Q1-01-10	AC10505

2. The sample cooler temperature was noted to be 2^0C upon receipt.

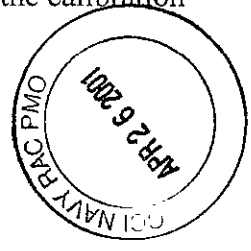
3. The "J" values noted for the VOC and FL-PRO results indicate estimated concentrations that were above the method detection limits, but below the reporting limits.

4. The "B" value noted for the FL-PRO analysis indicates that the compound was detected in the sample and in the Method Blank, and the result should be considered estimated due to Method Blank contamination.

5. The "E" value noted for the VOC analysis indicate that the compound was over the calibration range, and the result for the compound should be considered estimated.

6. The PAH by HPLC analysis was performed by a subcontract laboratory.

7. The pH of the samples was 1.0 for the VOC analysis.



8. The following sample required dilution due to high analyte concentration, resulting in an elevated detection limit:

FL-PRO
029-SMW11-Q1-01-10

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9. The following surrogates were outside the method specified limits:

FL-PRO

(Nonatriacontane/C39) -	029-SMW02-Q1-01-10
	029-SMW10-Q1-01-10
	029-SMW11-Q1-01-10
	029-DUP-Q1-01-10
	029-EQB-Q1-01-10
	Method Blank
	Laboratory Control Sample
	Matrix Spike
	Matrix Spike Duplicate

o-Terphenyl -	029-SMW02-Q1-01-10
	029-SMW03-Q1-01-10
	029-SMW07-Q1-01-10
	029-SMW10-Q1-01-10
	029-DUP-Q1-01-10
	Matrix Spike
	Matrix Spike Duplicate

The recoveries were within historical limits established in the laboratory; therefore the data was accepted.

10. The following surrogate was outside the method specified limit due to matrix interference:

VOC – SW-846-8260B

4-Bromofluorobenzene -	029-SMW01-Q1-01-10
	029-EQB-Q1-01-10

11. The following analyte concentration was above the calibration range:

VOC – SW-846-8260B

1,2,4-Trimethylbenzene -	029-SMW11-Q1-01-10

No sample was available in order to perform a dilution; therefore the result for this analyte should be considered estimated.

12. The laboratory control sample recovery was outside the project specified limit for the following analyte:

FL-PRO

The recovery was within historical limits established in the laboratory; therefore the data was accepted.

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13. The following spike recoveries were outside the subcontract laboratory's historical quality control limits:

PAH by HPLC – SW-846-8310

Matrix Spike - Naphthalene Phenanthrene 1-Methylnaphthalene 2-Methylnaphthalene

Matrix Spike Duplicate - Naphthalene Phenanthrene 1-Methylnaphthalene 2-Methylnaphthalene

14. The following spike recoveries were outside the project specified limits due to matrix interference:

FL-PRO

Matrix Spike/Matrix Spike Duplicate - FL-PRO

Quality Assurance Officer
Camden L. Robinson

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ACCURA ANALYTICAL LABORATORY, INC.

6017 Financial Drive, Norcross, Georgia 30017, Phone (770)449-8800, FAX (770)449-5477
FL Certification # E87429 NC Certification # 483 SC Certification # 98015 USACE-MRD Approved

LABORATORY REPORT

Accura Sample ID #: **AC10497** **Accura Project #:** **27420**

Client: **CH2M HILL - CCI** Date Sampled: 3/27/01

Client Contact: BILL CANELOS Date Received: 3/28/01

Client Project Number: 154282/CTO 0029 Date Reported: 4/24/01

Client Project Name: NAS CECIL FIELD 103rd ST QUARTERLY GW Sample Matrix: WATER

Client Sample ID: **029-SMW01-Q1-01-10**

ANALYSIS: Metals - Lead Method Ref: 3010A/6010B

Date Ext/Dig/Prep: 4/2/01 Date Analyzed: 4/4/01 Result Units: mg/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Lead	0.049		0.010

ANALYSIS: PAH's by HPLC Method Ref: 8310

Date Ext/Dig/Prep: 4/2/01 Date Analyzed: 4/6/01 Result Units: ug/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1-Methylnapthalene	<RL		1.02
2-Methylnapthalene	<RL		1.02
Acenaphthene	<RL		1.02
Acenaphthylene	<RL		2.04
Anthracene	<RL		0.67
Benzo(a)anthracene	<RL		0.13
Benzo(a)pyrene	<RL		0.10
Benzo(b)fluoranthene	<RL		0.18
Benzo(g,h,i)perylene	<RL		0.78
Benzo(k)fluoranthene	<RL		0.17
Chrysene	<RL		0.15
Dibenzo(a,h)anthracene	<RL		0.31
Fluoranthene	<RL		0.21
Fluorene	<RL		0.51
Indeno(1,2,3-cd)pyrene	<RL		0.44
Naphthalene	<RL		1.02
Phenanthrene	<RL		0.65
Pyrene	<RL		0.28

ANALYSIS: Petroleum Range Organics (PRO) Method Ref: FL-PRO

Date Ext/Dig/Prep: 4/1/01 Date Analyzed: 4/3/01 Result Units: mg/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Petroleum Range Organics (PRO)	0.97	JB	1.0

ANALYSIS: VOC's Navy (25 ml purge) Method Ref: 8260B

Date Ext/Dig/Prep: 4/3/01 Date Analyzed: 4/3/01 Result Units: ug/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,1,1,2-Tetrachloroethane	<RL		2.5
1,1,1-Trichloroethane	<RL		4
1,1,2,2-Tetrachloroethane	<RL		2

1,1,2-Trichloroethane	<RL		5
1,1-Dichloroethane	<RL		2
1,1-Dichloroethene	<RL		6
1,2,3-Trichlorobenzene	<RL		1.5
1,2,3-Trichloropropane	<RL		16
1,2,4-Trichlorobenzene	<RL		2
1,2,4-Trimethylbenzene	<RL		6.5
1,2-Dibromo-3-chloropropane	<RL		13
1,2-Dichlorobenzene	<RL		1.5
1,2-Dichloroethane	<RL		3
1,2-Dichloropropane	<RL		2
1,2-Ethylene Dibromide	<RL		3
1,3,5-Trimethylbenzene	<RL		2.5
1,3-Dichlorobenzene	<RL		6
1,3-Dichloropropane	<RL		2
1,4-Dichlorobenzene	<RL		1.5
2,2-Dichloropropane	<RL		17.5
2-Chlorotoluene	<RL		2
4-Chlorotoluene	<RL		3
Benzene	<RL		1
Bromobenzene	<RL		1.5
Bromochloromethane	<RL		2
Bromodichloromethane	<RL		4
Bromoform	<RL		6
Bromomethane	<RL		5.5
Carbon tetrachloride	<RL		10.5
Chlorobenzene	<RL		2
Chloroethane	<RL		5
Chloroform	<RL		1.5
Chloromethane	<RL		6.5
cis-1,2-Dichloroethene	<RL		6
cis-1,3-Dichloropropene	<RL		5
Dibromochloromethane	<RL		2.5
Dibromomethane	<RL		12
Dichlorodifluoromethane	<RL		5
Ethylbenzene	<RL		3
Hexachlorobutadiene	<RL		5.5
Isopropylbenzene	<RL		2.5
Methylene chloride	0.53	J	1.5
Naphthalene	<RL		2
n-Butylbenzene	<RL		5.5
n-Propylbenzene	<RL		2
p-Isopropyltoluene	<RL		6
Sec-Butylbenzene	<RL		6.5
Styrene	<RL		2
Tert-Butylbenzene	<RL		7
Tetrachloroethylene	<RL		7
Toluene	<RL		5.5
Total Xylenes	<RL		5
trans-1,2-Dichloroethene	<RL		3
trans-1,3-Dichloropropene	<RL		5
Trichloroethylene	<RL		5
Trichlorofluoromethane	<RL		4
Vinyl chloride	<RL		5.5

ANALYSIS: X PAH Surrogates (Liquid) Method Ref: 8310

Date Ext/Dig/Prep: 4/2/01 Date Analyzed: 4/6/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
p-terphenyl d14 (Range 12-152)	65		

ANALYSIS: X PRO Sample Surrogates (Water) Method Ref: FL-PRO

Date Ext/Dig/Prep: 4/1/01 Date Analyzed: 4/3/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
C(39) (Range 42-193)	57		
o-Terphenyl (Range 82-142)	96		

ANALYSIS: X VOC Sample Surrogates-Waters Method Ref: 5030B/8260B

Date Ext/Dig/Prep: 4/3/01 Date Analyzed: 4/3/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,2-Dichloroethane-d4 (78-124)	97		
4-Bromofluorobenzene (86-112)	111		
Toluene-d8 (84-108)	109	*	

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FL Certification # E87429 NC Certification # 483 SC Certification # 98015 USACE-MRD Approved

LABORATORY REPORT

Accura Sample ID #: **AC10498** **Accura Project #:** **27420**

Client: **CH2M HILL - CCI** Date Sampled: 3/27/01

Client Contact: BILL CANELOS Date Received: 3/28/01

Client Project Number: 154282/CTO 0029 Date Reported: 4/24/01

Client Project Name: NAS CECIL FIELD 103rd ST QUARTERLY GW Sample Matrix: WATER

Client Sample ID: **029-SMW02-Q1-01-10**

ANALYSIS: Metals - Lead Method Ref: 3010A/6010B

Date Ext/Dig/Prep: 4/2/01 Date Analyzed: 4/4/01 Result Units: mg/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Lead	0.015		0.010

ANALYSIS: PAH's by HPLC Method Ref: 8310

Date Ext/Dig/Prep: 4/2/01 Date Analyzed: 4/6/01 Result Units: ug/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1-Methylnapthalene	<RL		1.05
2-Methylnapthalene	<RL		1.05
Acenaphthene	<RL		1.05
Acenaphthylene	<RL		2.11
Anthracene	<RL		0.69
Benzo(a)anthracene	<RL		0.14
Benzo(a)pyrene	<RL		0.11
Benzo(b)fluoranthene	<RL		0.19
Benzo(g,h,i)perylene	<RL		0.80
Benzo(k)fluoranthene	<RL		0.18
Chrysene	<RL		0.16
Dibenzo(a,h)anthracene	<RL		0.32
Fluoranthene	<RL		0.22
Fluorene	<RL		0.53
Indeno(1,2,3-cd)pyrene	<RL		0.45
Naphthalene	<RL		1.05
Phenanthrene	<RL		0.67
Pyrene	<RL		0.28

ANALYSIS: Petroleum Range Organics (PRO) Method Ref: FL-PRO

Date Ext/Dig/Prep: 4/1/01 Date Analyzed: 4/3/01 Result Units: mg/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Petroleum Range Organics (PRO)	0.87	JB	1.0

ANALYSIS: VOC's Navy (25 ml purge) Method Ref: 8260B

Date Ext/Dig/Prep: 4/3/01 Date Analyzed: 4/3/01 Result Units: ug/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,1,1,2-Tetrachloroethane	<RL		2.5
1,1,1-Trichloroethane	<RL		4
1,1,2,2-Tetrachloroethane	<RL		2

1,1,2-Trichloroethane	<RL		5
1,1-Dichloroethane	<RL		2
1,1-Dichloroethene	<RL		6
1,2,3-Trichlorobenzene	<RL		1.5
1,2,3-Trichloropropane	<RL		16
1,2,4-Trichlorobenzene	<RL		2
1,2,4-Trimethylbenzene	<RL		6.5
1,2-Dibromo-3-chloropropane	<RL		13
1,2-Dichlorobenzene	<RL		1.5
1,2-Dichloroethane	<RL		3
1,2-Dichloropropane	<RL		2
1,2-Ethylene Dibromide	<RL		3
1,3,5-Trimethylbenzene	<RL		2.5
1,3-Dichlorobenzene	<RL		6
1,3-Dichloropropane	<RL		2
1,4-Dichlorobenzene	<RL		1.5
2,2-Dichloropropane	<RL		17.5
2-Chlorotoluene	<RL		2
4-Chlorotoluene	<RL		3
Benzene	<RL		1
Bromobenzene	<RL		1.5
Bromochloromethane	<RL		2
Bromodichloromethane	<RL		4
Bromoform	<RL		6
Bromomethane	<RL		5.5
Carbon tetrachloride	<RL		10.5
Chlorobenzene	<RL		2
Chloroethane	<RL		5
Chloroform	<RL		1.5
Chloromethane	<RL		6.5
cis-1,2-Dichloroethene	<RL		6
cis-1,3-Dichloropropene	<RL		5
Dibromochloromethane	<RL		2.5
Dibromomethane	<RL		12
Dichlorodifluoromethane	<RL		5
Ethylbenzene	<RL		3
Hexachlorobutadiene	<RL		5.5
Isopropylbenzene	<RL		2.5
Methylene chloride	0.51	J	1.5
Naphthalene	<RL		2
n-Butylbenzene	<RL		5.5
n-Propylbenzene	<RL		2
p-Isopropyltoluene	<RL		6
Sec-Butylbenzene	<RL		6.5
Styrene	<RL		2
Tert-Butylbenzene	<RL		7
Tetrachloroethylene	<RL		7
Toluene	<RL		5.5
Total Xylenes	<RL		5
trans-1,2-Dichloroethene	<RL		3
trans-1,3-Dichloropropene	<RL		5
Trichloroethylene	<RL		5
Trichlorofluoromethane	<RL		4
Vinyl chloride	<RL		5.5

ANALYSIS: X PAH Surrogates (Liquid) Method Ref: 8310

Date Ext/Dig/Prep: 4/2/01 Date Analyzed: 4/6/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
p-terphenyl d14 (Range 12-152)	65		

ANALYSIS: X PRO Sample Surrogates (Water) Method Ref: FL-PRO

Date Ext/Dig/Prep: 4/1/01 Date Analyzed: 4/3/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
C(39) (Range 42-193)	36	*	
o-Terphenyl (Range 82-142)	60	*	

ANALYSIS: X VOC Sample Surrogates-Waters Method Ref: 5030B/8260B

Date Ext/Dig/Prep: 4/3/01 Date Analyzed: 4/3/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,2-Dichloroethane-d4 (78-124)	96		
4-Bromofluorobenzene (86-112)	112		
Toluene-d8 (84-108)	107		

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LABORATORY REPORT

Accura Sample ID #: **AC10499** **Accura Project #:** **27420**

Client: **CH2M HILL - CCI** Date Sampled: 3/27/01

Client Contact: BILL CANELOS Date Received: 3/28/01

Client Project Number: 154282/CTO 0029 Date Reported: 4/24/01

Client Project Name: NAS CECIL FIELD 103rd ST QUARTERLY GW Sample Matrix: WATER

Client Sample ID: **029-SMW03-Q1-01-10**

ANALYSIS: Metals - Lead Method Ref: 3010A/6010B

Date Ext/Dig/Prep: 4/2/01 Date Analyzed: 4/4/01 Result Units: mg/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Lead	0.047		0.010

ANALYSIS: PAH's by HPLC Method Ref: 8310

Date Ext/Dig/Prep: 4/2/01 Date Analyzed: 4/6/01 Result Units: ug/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1-Methylnapthalene	<RL		1.01
2-Methylnapthalene	<RL		1.01
Acenaphthene	<RL		1.01
Acenaphthylene	<RL		2.02
Anthracene	<RL		0.67
Benzo(a)anthracene	<RL		0.13
Benzo(a)pyrene	<RL		0.10
Benzo(b)fluoranthene	<RL		0.18
Benzo(g,h,i)perylene	<RL		0.77
Benzo(k)fluoranthene	<RL		0.17
Chrysene	<RL		0.15
Dibenzo(a,h)anthracene	<RL		0.30
Fluoranthene	<RL		0.21
Fluorene	<RL		0.51
Indeno(1,2,3-cd)pyrene	<RL		0.43
Naphthalene	<RL		1.01
Phenanthrene	<RL		0.65
Pyrene	<RL		0.27

ANALYSIS: Petroleum Range Organics (PRO) Method Ref: FL-PRO

Date Ext/Dig/Prep: 4/1/01 Date Analyzed: 4/3/01 Result Units: mg/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Petroleum Range Organics (PRO)	0.75	JB	1.0

ANALYSIS: VOC's Navy (25 ml purge) Method Ref: 8260B

Date Ext/Dig/Prep: 4/3/01 Date Analyzed: 4/3/01 Result Units: ug/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,1,1,2-Tetrachloroethane	<RL		2.5
1,1,1-Trichloroethane	<RL		4
1,1,2,2-Tetrachloroethane	<RL		2

1,1,2-Trichloroethane	<RL		5
1,1-Dichloroethane	<RL		2
1,1-Dichloroethene	<RL		6
1,2,3-Trichlorobenzene	<RL		1.5
1,2,3-Trichloropropane	<RL		16
1,2,4-Trichlorobenzene	<RL		2
1,2,4-Trimethylbenzene	<RL		6.5
1,2-Dibromo-3-chloropropane	<RL		13
1,2-Dichlorobenzene	<RL		1.5
1,2-Dichloroethane	<RL		3
1,2-Dichloropropane	<RL		2
1,2-Ethylene Dibromide	<RL		3
1,3,5-Trimethylbenzene	<RL		2.5
1,3-Dichlorobenzene	<RL		6
1,3-Dichloropropane	<RL		2
1,4-Dichlorobenzene	<RL		1.5
2,2-Dichloropropane	<RL		17.5
2-Chlorotoluene	<RL		2
4-Chlorotoluene	<RL		3
Benzene	<RL		1
Bromobenzene	<RL		1.5
Bromochloromethane	<RL		2
Bromodichloromethane	<RL		4
Bromoform	<RL		6
Bromomethane	<RL		5.5
Carbon tetrachloride	<RL		10.5
Chlorobenzene	<RL		2
Chloroethane	<RL		5
Chloroform	<RL		1.5
Chloromethane	<RL		6.5
cis-1,2-Dichloroethene	<RL		6
cis-1,3-Dichloropropene	<RL		5
Dibromochloromethane	<RL		2.5
Dibromomethane	<RL		12
Dichlorodifluoromethane	<RL		5
Ethylbenzene	<RL		3
Hexachlorobutadiene	<RL		5.5
Isopropylbenzene	<RL		2.5
Methylene chloride	0.65	J	1.5
Naphthalene	<RL		2
n-Butylbenzene	<RL		5.5
n-Propylbenzene	<RL		2
p-Isopropyltoluene	<RL		6
Sec-Butylbenzene	<RL		6.5
Styrene	<RL		2
Tert-Butylbenzene	<RL		7
Tetrachloroethylene	<RL		7
Toluene	<RL		5.5
Total Xylenes	<RL		5
trans-1,2-Dichloroethene	<RL		3
trans-1,3-Dichloropropene	<RL		5
Trichloroethylene	<RL		5
Trichlorofluoromethane	<RL		4
Vinyl chloride	<RL		5.5

ANALYSIS: X PAH Surrogates (Liquid) Method Ref: 8310

Date Ext/Dig/Prep: 4/2/01 Date Analyzed: 4/6/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
p-terphenyl d14 (Range 12-152)	69		

ANALYSIS: X PRO Sample Surrogates (Water) Method Ref: FL-PRO

Date Ext/Dig/Prep: 4/1/01 Date Analyzed: 4/3/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
C(39) (Range 42-193)	56		
o-Terphenyl (Range 82-142)	57	*	

ANALYSIS: X VOC Sample Surrogates-Waters Method Ref: 5030B/8260B

Date Ext/Dig/Prep: 4/3/01 Date Analyzed: 4/3/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,2-Dichloroethane-d4 (78-124)	107		
4-Bromofluorobenzene (86-112)	111		
Toluene-d8 (84-108)	108		

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LABORATORY REPORT

Accura Sample ID #: **AC10500** **Accura Project #:** **27420**

Client: **CH2M HILL - CCI** Date Sampled: 3/27/01

Client Contact: BILL CANELOS Date Received: 3/28/01

Client Project Number: 154282/CTO 0029 Date Reported: 4/24/01

Client Project Name: NAS CECIL FIELD 103rd ST QUARTERLY GW Sample Matrix: WATER

Client Sample ID: **029-SMW07-Q1-01-10**

ANALYSIS: Metals - Lead Method Ref: 3010A/6010B

Date Ext/Dig/Prep: 4/2/01 Date Analyzed: 4/4/01 Result Units: mg/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Lead	0.070		0.010

ANALYSIS: PAH's by HPLC Method Ref: 8310

Date Ext/Dig/Prep: 4/2/01 Date Analyzed: 4/6/01 Result Units: ug/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1-Methylnapthalene	<RL		1.00
2-Methylnapthalene	<RL		1.00
Acenaphthene	<RL		1.00
Acenaphthylene	<RL		2.00
Anthracene	<RL		0.66
Benzo(a)anthracene	<RL		0.13
Benzo(a)pyrene	<RL		0.10
Benzo(b)fluoranthene	<RL		0.18
Benzo(g,h,i)perylene	<RL		0.76
Benzo(k)fluoranthene	<RL		0.17
Chrysene	<RL		0.15
Dibenzo(a,h)anthracene	<RL		0.30
Fluoranthene	<RL		0.21
Fluorene	<RL		0.50
Indeno(1,2,3-cd)pyrene	<RL		0.43
Naphthalene	<RL		1.00
Phenanthrene	<RL		0.64
Pyrene	<RL		0.27

ANALYSIS: Petroleum Range Organics (PRO) Method Ref: FL-PRO

Date Ext/Dig/Prep: 4/1/01 Date Analyzed: 4/3/01 Result Units: mg/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Petroleum Range Organics (PRO)	1.3	B	1.0

ANALYSIS: VOC's Navy (25 ml purge) Method Ref: 8260B

Date Ext/Dig/Prep: 4/5/01 Date Analyzed: 4/5/01 Result Units: ug/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,1,1,2-Tetrachloroethane	<RL		2.5
1,1,1-Trichloroethane	<RL		4
1,1,2,2-Tetrachloroethane	<RL		2

1,1,2-Trichloroethane	<RL		5
1,1-Dichloroethane	<RL		2
1,1-Dichloroethene	<RL		6
1,2,3-Trichlorobenzene	<RL		1.5
1,2,3-Trichloropropane	<RL		16
1,2,4-Trichlorobenzene	<RL		2
1,2,4-Trimethylbenzene	<RL		6.5
1,2-Dibromo-3-chloropropane	<RL		13
1,2-Dichlorobenzene	<RL		1.5
1,2-Dichloroethane	<RL		3
1,2-Dichloropropane	<RL		2
1,2-Ethylene Dibromide	<RL		3
1,3,5-Trimethylbenzene	<RL		2.5
1,3-Dichlorobenzene	<RL		6
1,3-Dichloropropane	<RL		2
1,4-Dichlorobenzene	<RL		1.5
2,2-Dichloropropane	<RL		17.5
2-Chlorotoluene	<RL		2
4-Chlorotoluene	<RL		3
Benzene	<RL		1
Bromobenzene	<RL		1.5
Bromochloromethane	<RL		2
Bromodichloromethane	<RL		4
Bromoform	<RL		6
Bromomethane	<RL		5.5
Carbon tetrachloride	<RL		10.5
Chlorobenzene	<RL		2
Chloroethane	<RL		5
Chloroform	<RL		1.5
Chloromethane	<RL		6.5
cis-1,2-Dichloroethene	<RL		6
cis-1,3-Dichloropropene	<RL		5
Dibromochloromethane	<RL		2.5
Dibromomethane	<RL		12
Dichlorodifluoromethane	<RL		5
Ethylbenzene	<RL		3
Hexachlorobutadiene	<RL		5.5
Isopropylbenzene	<RL		2.5
Methylene chloride	0.53	J	1.5
Naphthalene	<RL		2
n-Butylbenzene	<RL		5.5
n-Propylbenzene	<RL		2
p-Isopropyltoluene	<RL		6
Sec-Butylbenzene	<RL		6.5
Styrene	<RL		2
Tert-Butylbenzene	<RL		7
Tetrachloroethylene	<RL		7
Toluene	<RL		5.5
Total Xylenes	<RL		5
trans-1,2-Dichloroethene	<RL		3
trans-1,3-Dichloropropene	<RL		5
Trichloroethylene	<RL		5
Trichlorofluoromethane	<RL		4
Vinyl chloride	<RL		5.5

ANALYSIS: X PAH Surrogates (Liquid) Method Ref: 8310

Date Ext/Dig/Prep: 4/2/01 Date Analyzed: 4/6/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
p-terphenyl d14 (Range 12-152)	60		

ANALYSIS: X PRO Sample Surrogates (Water) Method Ref: FL-PRO

Date Ext/Dig/Prep: 4/1/01 Date Analyzed: 4/3/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
C(39) (Range 42-193)	52		
o-Terphenyl (Range 82-142)	71	*	

ANALYSIS: X VOC Sample Surrogates-Waters Method Ref: 5030B/8260B

Date Ext/Dig/Prep: 4/5/01 Date Analyzed: 4/5/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,2-Dichloroethane-d4 (78-124)	104		
4-Bromofluorobenzene (86-112)	104		
Toluene-d8 (84-108)	104		

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LABORATORY REPORT

Accura Sample ID #: **AC10501** **Accura Project #:** **27420**

Client: **CH2M HILL - CCI** Date Sampled: 3/27/01

Client Contact: BILL CANELOS Date Received: 3/28/01

Client Project Number: 154282/CTO 0029 Date Reported: 4/24/01

Client Project Name: NAS CECIL FIELD 103rd ST QUARTERLY GW Sample Matrix: WATER

Client Sample ID: **029-SMW10-Q1-01-10**

ANALYSIS: Metals - Lead Method Ref: 3010A/6010B

Date Ext/Dig/Prep: 4/2/01 Date Analyzed: 4/4/01 Result Units: mg/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Lead	0.050		0.010

ANALYSIS: PAH's by HPLC Method Ref: 8310

Date Ext/Dig/Prep: 4/2/01 Date Analyzed: 4/6/01 Result Units: ug/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1-Methylnapthalene	<RL		1.01
2-Methylnapthalene	<RL		1.01
Acenaphthene	<RL		1.01
Acenaphthylene	<RL		2.02
Anthracene	<RL		0.67
Benzo(a)anthracene	<RL		0.13
Benzo(a)pyrene	<RL		0.10
Benzo(b)fluoranthene	<RL		0.18
Benzo(g,h,i)perylene	<RL		0.77
Benzo(k)fluoranthene	<RL		0.17
Chrysene	<RL		0.15
Dibenzo(a,h)anthracene	<RL		0.30
Fluoranthene	<RL		0.21
Fluorene	<RL		0.51
Indeno(1,2,3-cd)pyrene	<RL		0.43
Naphthalene	<RL		1.01
Phenanthrene	<RL		0.65
Pyrene	<RL		0.27

ANALYSIS: Petroleum Range Organics (PRO) Method Ref: FL-PRO

Date Ext/Dig/Prep: 4/1/01 Date Analyzed: 4/3/01 Result Units: mg/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Petroleum Range Organics (PRO)	0.66	JB	1.0

ANALYSIS: VOC's Navy (25 ml purge) Method Ref: 8260B

Date Ext/Dig/Prep: 4/3/01 Date Analyzed: 4/3/01 Result Units: ug/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,1,1,2-Tetrachloroethane	<RL		2.5
1,1,1-Trichloroethane	<RL		4
1,1,2,2-Tetrachloroethane	<RL		2

1,1,2-Trichloroethane	<RL		5
1,1-Dichloroethane	<RL		2
1,1-Dichloroethene	<RL		6
1,2,3-Trichlorobenzene	<RL		1.5
1,2,3-Trichloropropane	<RL		16
1,2,4-Trichlorobenzene	<RL		2
1,2,4-Trimethylbenzene	<RL		6.5
1,2-Dibromo-3-chloropropane	<RL		13
1,2-Dichlorobenzene	<RL		1.5
1,2-Dichloroethane	<RL		3
1,2-Dichloropropane	<RL		2
1,2-Ethylene Dibromide	<RL		3
1,3,5-Trimethylbenzene	<RL		2.5
1,3-Dichlorobenzene	<RL		6
1,3-Dichloropropane	<RL		2
1,4-Dichlorobenzene	<RL		1.5
2,2-Dichloropropane	<RL		17.5
2-Chlorotoluene	<RL		2
4-Chlorotoluene	<RL		3
Benzene	<RL		1
Bromobenzene	<RL		1.5
Bromochloromethane	<RL		2
Bromodichloromethane	<RL		4
Bromoform	<RL		6
Bromomethane	<RL		5.5
Carbon tetrachloride	<RL		10.5
Chlorobenzene	<RL		2
Chloroethane	<RL		5
Chloroform	<RL		1.5
Chloromethane	<RL		6.5
cis-1,2-Dichloroethene	<RL		6
cis-1,3-Dichloropropene	<RL		5
Dibromochloromethane	<RL		2.5
Dibromomethane	<RL		12
Dichlorodifluoromethane	<RL		5
Ethylbenzene	<RL		3
Hexachlorobutadiene	<RL		5.5
Isopropylbenzene	<RL		2.5
Methylene chloride	1.0	J	1.5
Naphthalene	<RL		2
n-Butylbenzene	<RL		5.5
n-Propylbenzene	<RL		2
p-Isopropyltoluene	<RL		6
Sec-Butylbenzene	<RL		6.5
Styrene	<RL		2
Tert-Butylbenzene	<RL		7
Tetrachloroethylene	<RL		7
Toluene	<RL		5.5
Total Xylenes	<RL		5
trans-1,2-Dichloroethene	<RL		3
trans-1,3-Dichloropropene	<RL		5
Trichloroethylene	<RL		5
Trichlorofluoromethane	<RL		4
Vinyl chloride	<RL		5.5

ANALYSIS: X PAH Surrogates (Liquid) Method Ref: 8310

Date Ext/Dig/Prep: 4/2/01 Date Analyzed: 4/6/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
p-terphenyl d14 (Range 12-152)	49		

ANALYSIS: X PRO Sample Surrogates (Water) Method Ref: FL-PRO

Date Ext/Dig/Prep: 4/1/01 Date Analyzed: 4/3/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
C(39) (Range 42-193)	37	*	
o-Terphenyl (Range 82-142)	60	*	

ANALYSIS: X VOC Sample Surrogates-Waters Method Ref: 5030B/8260B

Date Ext/Dig/Prep: 4/3/01 Date Analyzed: 4/3/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,2-Dichloroethane-d4 (78-124)	104		
4-Bromofluorobenzene (86-112)	108		
Toluene-d8 (84-108)	105		

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LABORATORY REPORT

Accura Sample ID #: **AC10502** **Accura Project #:** **27420**

Client: **CH2M HILL - CCI** Date Sampled: 3/27/01

Client Contact: BILL CANELOS Date Received: 3/28/01

Client Project Number: 154282/CTO 0029 Date Reported: 4/24/01

Client Project Name: NAS CECIL FIELD 103rd ST QUARTERLY GW Sample Matrix: WATER

Client Sample ID: **029-SMW11-Q1-01-10**

ANALYSIS: Metals - Lead Method Ref: 3010A/6010B

Date Ext/Dig/Prep: 4/2/01 Date Analyzed: 4/4/01 Result Units: mg/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Lead	0.032		0.010

ANALYSIS: PAH's by HPLC Method Ref: 8310

Date Ext/Dig/Prep: 4/2/01 Date Analyzed: 4/6/01 Result Units: ug/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1-Methylnapthalene	3.16		1.01
2-Methylnapthalene	2.17		1.01
Acenaphthene	<RL		1.01
Acenaphthylene	<RL		2.02
Anthracene	<RL		0.67
Benzo(a)anthracene	<RL		0.13
Benzo(a)pyrene	<RL		0.10
Benzo(b)fluoranthene	<RL		0.18
Benzo(g,h,i)perylene	<RL		0.77
Benzo(k)fluoranthene	<RL		0.17
Chrysene	<RL		0.15
Dibenzo(a,h)anthracene	<RL		0.30
Fluoranthene	<RL		0.21
Fluorene	<RL		0.51
Indeno(1,2,3-cd)pyrene	<RL		0.43
Naphthalene	2.74		1.01
Phenanthrene	<RL		0.65
Pyrene	<RL		0.27

ANALYSIS: Petroleum Range Organics (PRO) Method Ref: FL-PRO

Date Ext/Dig/Prep: 4/1/01 Date Analyzed: 4/4/01 Result Units: mg/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Petroleum Range Organics (PRO)	20		10

ANALYSIS: VOC's Navy (25 ml purge) Method Ref: 8260B

Date Ext/Dig/Prep: 4/3/01 Date Analyzed: 4/3/01 Result Units: ug/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,1,1,2-Tetrachloroethane	<RL		2.5
1,1,1-Trichloroethane	<RL		4
1,1,2,2-Tetrachloroethane	<RL		2

1,1,2-Trichloroethane	<RL		5
1,1-Dichloroethane	<RL		2
1,1-Dichloroethene	<RL		6
1,2,3-Trichlorobenzene	<RL		1.5
1,2,3-Trichloropropane	<RL		16
1,2,4-Trichlorobenzene	<RL		2
1,2,4-Trimethylbenzene	46	E	6.5
1,2-Dibromo-3-chloropropane	<RL		13
1,2-Dichlorobenzene	<RL		1.5
1,2-Dichloroethane	<RL		3
1,2-Dichloropropane	<RL		2
1,2-Ethylene Dibromide	<RL		3
1,3,5-Trimethylbenzene	11		2.5
1,3-Dichlorobenzene	<RL		6
1,3-Dichloropropane	<RL		2
1,4-Dichlorobenzene	<RL		1.5
2,2-Dichloropropane	<RL		17.5
2-Chlorotoluene	<RL		2
4-Chlorotoluene	<RL		3
Benzene	<RL		1
Bromobenzene	<RL		1.5
Bromochloromethane	<RL		2
Bromodichloromethane	<RL		4
Bromoform	<RL		6
Bromomethane	<RL		5.5
Carbon tetrachloride	<RL		10.5
Chlorobenzene	<RL		2
Chloroethane	<RL		5
Chloroform	<RL		1.5
Chloromethane	<RL		6.5
cis-1,2-Dichloroethene	<RL		6
cis-1,3-Dichloropropene	<RL		5
Dibromochloromethane	<RL		2.5
Dibromomethane	<RL		12
Dichlorodifluoromethane	<RL		5
Ethylbenzene	10		3
Hexachlorobutadiene	<RL		5.5
Isopropylbenzene	5.6		2.5
Methylene chloride	<RL		1.5
Naphthalene	17		2
n-Butylbenzene	6.2		5.5
n-Propylbenzene	5.4		2
p-Isopropyltoluene	4.1	J	6
Sec-Butylbenzene	5.4	J	6.5
Styrene	<RL		2
Tert-Butylbenzene	4.8	J	7
Tetrachloroethylene	<RL		7
Toluene	<RL		5.5
Total Xylenes	14		5
trans-1,2-Dichloroethene	<RL		3
trans-1,3-Dichloropropene	<RL		5
Trichloroethylene	<RL		5
Trichlorofluoromethane	<RL		4
Vinyl chloride	<RL		5.5

ANALYSIS: X_PAH Surrogates (Liquid) Method Ref: 8310

Date Ext/Dig/Prep: 4/2/01 Date Analyzed: 4/6/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
p-terphenyl d14 (Range 12-152)	68		

ANALYSIS: X_PRO Sample Surrogates (Water) Method Ref: FL-PRO

Date Ext/Dig/Prep: 4/1/01 Date Analyzed: 4/4/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
C(39) (Range 42-193)	39	*	
o-Terphenyl (Range 82-142)	82		

ANALYSIS: X_VOC Sample Surrogates-Waters Method Ref: 5030B/8260B

Date Ext/Dig/Prep: 4/3/01 Date Analyzed: 4/3/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,2-Dichloroethane-d4 (78-124)	103		
4-Bromofluorobenzene (86-112)	104		
Toluene-d8 (84-108)	105		

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LABORATORY REPORT

Accura Sample ID #: **AC10503** **Accura Project #:** **27420**

Client: **CH2M HILL - CCI** Date Sampled: 3/27/01

Client Contact: BILL CANELOS Date Received: 3/28/01

Client Project Number: 154282/CTO 0029 Date Reported: 4/24/01

Client Project Name: NAS CECIL FIELD 103rd ST QUARTERLY GW Sample Matrix: WATER

Client Sample ID: **029-DUP-Q1-01-10**

ANALYSIS: Metals - Lead Method Ref: 3010A/6010B

Date Ext/Dig/Prep: 4/2/01 Date Analyzed: 4/4/01 Result Units: mg/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Lead	0.076		0.010

ANALYSIS: PAH's by HPLC Method Ref: 8310

Date Ext/Dig/Prep: 4/2/01 Date Analyzed: 4/6/01 Result Units: ug/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1-Methylnapthalene	<RL		1.05
2-Methylnapthalene	<RL		1.05
Acenaphthene	<RL		1.05
Acenaphthylene	<RL		2.11
Anthracene	<RL		0.69
Benzo(a)anthracene	<RL		0.14
Benzo(a)pyrene	<RL		0.11
Benzo(b)fluoranthene	<RL		0.19
Benzo(g,h,i)perylene	<RL		0.80
Benzo(k)fluoranthene	<RL		0.18
Chrysene	<RL		0.16
Dibenzo(a,h)anthracene	<RL		0.32
Fluoranthene	<RL		0.22
Fluorene	<RL		0.53
Indeno(1,2,3-cd)pyrene	<RL		0.45
Naphthalene	<RL		1.05
Phenanthrene	<RL		0.67
Pyrene	<RL		0.28

ANALYSIS: Petroleum Range Organics (PRO) Method Ref: FL-PRO

Date Ext/Dig/Prep: 4/1/01 Date Analyzed: 4/3/01 Result Units: mg/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Petroleum Range Organics (PRO)	0.44	JB	1.0

ANALYSIS: VOC's Navy (25 ml purge) Method Ref: 8260B

Date Ext/Dig/Prep: 4/3/01 Date Analyzed: 4/3/01 Result Units: ug/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,1,1,2-Tetrachloroethane	<RL		2.5
1,1,1-Trichloroethane	<RL		4
1,1,2,2-Tetrachloroethane	<RL		2

1,1,2-Trichloroethane	<RL		5
1,1-Dichloroethane	<RL		2
1,1-Dichloroethene	<RL		6
1,2,3-Trichlorobenzene	<RL		1.5
1,2,3-Trichloropropane	<RL		16
1,2,4-Trichlorobenzene	<RL		2
1,2,4-Trimethylbenzene	<RL		6.5
1,2-Dibromo-3-chloropropane	<RL		13
1,2-Dichlorobenzene	<RL		1.5
1,2-Dichloroethane	<RL		3
1,2-Dichloropropane	<RL		2
1,2-Ethylene Dibromide	<RL		3
1,3,5-Trimethylbenzene	<RL		2.5
1,3-Dichlorobenzene	<RL		6
1,3-Dichloropropane	<RL		2
1,4-Dichlorobenzene	<RL		1.5
2,2-Dichloropropane	<RL		17.5
2-Chlorotoluene	<RL		2
4-Chlorotoluene	<RL		3
Benzene	<RL		1
Bromobenzene	<RL		1.5
Bromochloromethane	<RL		2
Bromodichloromethane	<RL		4
Bromoform	<RL		6
Bromomethane	<RL		5.5
Carbon tetrachloride	<RL		10.5
Chlorobenzene	<RL		2
Chloroethane	<RL		5
Chloroform	<RL		1.5
Chloromethane	<RL		6.5
cis-1,2-Dichloroethene	<RL		6
cis-1,3-Dichloropropene	<RL		5
Dibromochloromethane	<RL		2.5
Dibromomethane	<RL		12
Dichlorodifluoromethane	<RL		5
Ethylbenzene	<RL		3
Hexachlorobutadiene	<RL		5.5
Isopropylbenzene	<RL		2.5
Methylene chloride	0.59	J	1.5
Naphthalene	<RL		2
n-Butylbenzene	<RL		5.5
n-Propylbenzene	<RL		2
p-Isopropyltoluene	<RL		6
Sec-Butylbenzene	<RL		6.5
Styrene	<RL		2
Tert-Butylbenzene	<RL		7
Tetrachloroethylene	<RL		7
Toluene	<RL		5.5
Total Xylenes	<RL		5
trans-1,2-Dichloroethene	<RL		3
trans-1,3-Dichloropropene	<RL		5
Trichloroethylene	<RL		5
Trichlorofluoromethane	<RL		4
Vinyl chloride	<RL		5.5

ANALYSIS: X PAH Surrogates (Liquid) Method Ref: 8310

Date Ext/Dig/Prep: 4/2/01 Date Analyzed: 4/6/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
p-terphenyl d14 (Range 12-152)	44		

ANALYSIS: X PRO Sample Surrogates (Water) Method Ref: FL-PRO

Date Ext/Dig/Prep: 4/1/01 Date Analyzed: 4/3/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
C(39) (Range 42-193)	34	*	
o-Terphenyl (Range 82-142)	60	*	

ANALYSIS: X VOC Sample Surrogates-Waters Method Ref: 5030B/8260B

Date Ext/Dig/Prep: 4/3/01 Date Analyzed: 4/3/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,2-Dichloroethane-d4 (78-124)	103		
4-Bromofluorobenzene (86-112)	109		
Toluene-d8 (84-108)	104		

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LABORATORY REPORT

Accura Sample ID #: **AC10504** **Accura Project #:** **27420**

Client: **CH2M HILL - CCI** Date Sampled: 3/27/01

Client Contact: BILL CANELOS Date Received: 3/28/01

Client Project Number: 154282/CTO 0029 Date Reported: 4/24/01

Client Project Name: NAS CECIL FIELD 103rd ST QUARTERLY GW Sample Matrix: WATER

Client Sample ID: **029-EQB-Q1-01-10**

ANALYSIS: Metals - Lead Method Ref: 3010A/6010B

Date Ext/Dig/Prep: 4/2/01 Date Analyzed: 4/4/01 Result Units: mg/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Lead	<RL		0.010

ANALYSIS: PAH's by HPLC Method Ref: 8310

Date Ext/Dig/Prep: 4/2/01 Date Analyzed: 4/6/01 Result Units: ug/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1-Methylnapthalene	<RL		1.02
2-Methylnapthalene	<RL		1.02
Acenaphthene	<RL		1.02
Acenaphthylene	<RL		2.04
Anthracene	<RL		0.67
Benzo(a)anthracene	<RL		0.13
Benzo(a)pyrene	<RL		0.10
Benzo(b)fluoranthene	<RL		0.18
Benzo(g,h,i)perylene	<RL		0.78
Benzo(k)fluoranthene	<RL		0.17
Chrysene	<RL		0.15
Dibenzo(a,h)anthracene	<RL		0.31
Fluoranthene	<RL		0.21
Fluorene	<RL		0.51
Indeno(1,2,3-cd)pyrene	<RL		0.44
Naphthalene	<RL		1.02
Phenanthrene	<RL		0.65
Pyrene	<RL		0.28

ANALYSIS: Petroleum Range Organics (PRO) Method Ref: FL-PRO

Date Ext/Dig/Prep: 4/1/01 Date Analyzed: 4/3/01 Result Units: mg/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Petroleum Range Organics (PRO)	0.47	JB	1.0

ANALYSIS: VOC's Navy (25 ml purge) Method Ref: 8260B

Date Ext/Dig/Prep: 4/4/01 Date Analyzed: 4/4/01 Result Units: ug/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,1,1,2-Tetrachloroethane	<RL		2.5
1,1,1-Trichloroethane	<RL		4
1,1,2,2-Tetrachloroethane	<RL		2

1,1,2-Trichloroethane	<RL		5
1,1-Dichloroethane	<RL		2
1,1-Dichloroethene	<RL		6
1,2,3-Trichlorobenzene	<RL		1.5
1,2,3-Trichloropropane	<RL		16
1,2,4-Trichlorobenzene	<RL		2
1,2,4-Trimethylbenzene	<RL		6.5
1,2-Dibromo-3-chloropropane	<RL		13
1,2-Dichlorobenzene	<RL		1.5
1,2-Dichloroethane	<RL		3
1,2-Dichloropropane	<RL		2
1,2-Ethylene Dibromide	<RL		3
1,3,5-Trimethylbenzene	<RL		2.5
1,3-Dichlorobenzene	<RL		6
1,3-Dichloropropane	<RL		2
1,4-Dichlorobenzene	<RL		1.5
2,2-Dichloropropane	<RL		17.5
2-Chlorotoluene	<RL		2
4-Chlorotoluene	<RL		3
Benzene	<RL		1
Bromobenzene	<RL		1.5
Bromochloromethane	<RL		2
Bromodichloromethane	<RL		4
Bromoform	<RL		6
Bromomethane	<RL		5.5
Carbon tetrachloride	<RL		10.5
Chlorobenzene	<RL		2
Chloroethane	<RL		5
Chloroform	1.1	J	1.5
Chloromethane	<RL		6.5
cis-1,2-Dichloroethene	<RL		6
cis-1,3-Dichloropropene	<RL		5
Dibromochloromethane	<RL		2.5
Dibromomethane	<RL		12
Dichlorodifluoromethane	<RL		5
Ethylbenzene	<RL		3
Hexachlorobutadiene	<RL		5.5
Isopropylbenzene	<RL		2.5
Methylene chloride	<RL		1.5
Naphthalene	<RL		2
n-Butylbenzene	<RL		5.5
n-Propylbenzene	<RL		2
p-Isopropyltoluene	<RL		6
Sec-Butylbenzene	<RL		6.5
Styrene	<RL		2
Tert-Butylbenzene	<RL		7
Tetrachloroethylene	<RL		7
Toluene	<RL		5.5
Total Xylenes	<RL		5
trans-1,2-Dichloroethene	<RL		3
trans-1,3-Dichloropropene	<RL		5
Trichloroethylene	<RL		5
Trichlorofluoromethane	<RL		4
Vinyl chloride	<RL		5.5

ANALYSIS: X PAH Surrogates (Liquid) Method Ref: 8310

Date Ext/Dig/Prep: 4/2/01 Date Analyzed: 4/6/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
p-terphenyl d14 (Range 12-152)	66		

ANALYSIS: X PRO Sample Surrogates (Water) Method Ref: FL-PRO

Date Ext/Dig/Prep: 4/1/01 Date Analyzed: 4/3/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
C(39) (Range 42-193)	35	*	
o-Terphenyl (Range 82-142)	95		

ANALYSIS: X VOC Sample Surrogates-Waters Method Ref: 5030B/8260B

Date Ext/Dig/Prep: 4/4/01 Date Analyzed: 4/4/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,2-Dichloroethane-d4 (78-124)	97		
4-Bromofluorobenzene (86-112)	111		
Toluene-d8 (84-108)	109		

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LABORATORY REPORT

Accura Sample ID #: **AC10505** **Accura Project #:** **27420**

Client: **CH2M HILL - CCI** Date Sampled: 3/27/01

Client Contact: BILL CANELOS Date Received: 3/28/01

Client Project Number: 154282/CTO 0029 Date Reported: 4/24/01

Client Project Name: NAS CECIL FIELD 103rd ST QUARTERLY GW Sample Matrix: WATER

Client Sample ID: **029-TB-Q1-01-10**

ANALYSIS: **VOC's Navy (25 ml purge)** Method Ref: 8260B

Date Ext/Dig/Prep: 4/4/01 Date Analyzed: 4/4/01 Result Units: ug/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,1,1,2-Tetrachloroethane	<RL		2.5
1,1,1-Trichloroethane	<RL		4
1,1,2,2-Tetrachloroethane	<RL		2
1,1,2-Trichloroethane	<RL		5
1,1-Dichloroethane	<RL		2
1,1-Dichloroethene	<RL		6
1,2,3-Trichlorobenzene	<RL		1.5
1,2,3-Trichloropropane	<RL		16
1,2,4-Trichlorobenzene	<RL		2
1,2,4-Trimethylbenzene	<RL		6.5
1,2-Dibromo-3-chloropropane	<RL		13
1,2-Dichlorobenzene	<RL		1.5
1,2-Dichloroethane	<RL		3
1,2-Dichloropropane	<RL		2
1,2-Ethylene Dibromide	<RL		3
1,3,5-Trimethylbenzene	<RL		2.5
1,3-Dichlorobenzene	<RL		6
1,3-Dichloropropane	<RL		2
1,4-Dichlorobenzene	<RL		1.5
2,2-Dichloropropane	<RL		17.5
2-Chlorotoluene	<RL		2
4-Chlorotoluene	<RL		3
Benzene	<RL		1
Bromobenzene	<RL		1.5
Bromochloromethane	<RL		2
Bromodichloromethane	<RL		4
Bromoform	<RL		6
Bromomethane	<RL		5.5
Carbon tetrachloride	<RL		10.5
Chlorobenzene	<RL		2
Chloroethane	<RL		5
Chloroform	<RL		1.5
Chloromethane	<RL		6.5
cis-1,2-Dichloroethene	<RL		6
cis-1,3-Dichloropropene	<RL		5
Dibromochloromethane	<RL		2.5

Dibromomethane	<RL		12
Dichlorodifluoromethane	<RL		5
Ethylbenzene	<RL		3
Hexachlorobutadiene	<RL		5.5
Isopropylbenzene	<RL		2.5
Methylene chloride	0.60	J	1.5
Naphthalene	<RL		2
n-Butylbenzene	<RL		5.5
n-Propylbenzene	<RL		2
p-Isopropyltoluene	<RL		6
Sec-Butylbenzene	<RL		6.5
Styrene	<RL		2
Tert-Butylbenzene	<RL		7
Tetrachloroethylene	<RL		7
Toluene	<RL		5.5
Total Xylenes	<RL		5
trans-1,2-Dichloroethene	<RL		3
trans-1,3-Dichloropropene	<RL		5
Trichloroethylene	<RL		5
Trichlorofluoromethane	<RL		4
Vinyl chloride	<RL		5.5

ANALYSIS: X VOC Sample Surrogates-Waters Method Ref: 5030B/8260B

Date Ext/Dig/Prep: 4/4/01 Date Analyzed: 4/4/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,2-Dichloroethane-d4 (78-124)	106		
4-Bromofluorobenzene (86-112)	112		
Toluene-d8 (84-108)	107		

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LABORATORY REPORT

Accura Sample ID #: **AC10506** **Accura Project #:** **27420**

Client: **CH2M HILL - CCI** Date Sampled: 3/28/01

Client Contact: BILL CANELOS Date Received: 3/28/01

Client Project Number: 154282/CTO 0029 Date Reported: 4/24/01

Client Project Name: NAS CECIL FIELD 103rd ST QUARTERLY GW Sample Matrix: WATER

Client Sample ID: **METHOD BLANK**

ANALYSIS: Metals - Lead Method Ref: 3010A/6010B

Date Ext/Dig/Prep: 4/2/01 Date Analyzed: 4/4/01 Result Units: mg/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Lead	<RL		0.010

ANALYSIS: PAH's by HPLC Method Ref: 8310

Date Ext/Dig/Prep: 4/6/01 Date Analyzed: 4/6/01 Result Units: ug/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1-Methylnapthalene	<RL		1.0
2-Methylnapthalene	<RL		1.0
Acenaphthene	<RL		1.0
Acenaphthylene	<RL		2.0
Anthracene	<RL		6.6
Benzo(a)anthracene	<RL		0.13
Benzo(a)pyrene	<RL		0.1
Benzo(b)fluoranthene	<RL		0.18
Benzo(g,h,i)perylene	<RL		0.76
Benzo(k)fluoranthene	<RL		0.17
Chrysene	<RL		0.15
Dibenzo(a,h)anthracene	<RL		0.03
Fluoranthene	<RL		0.21
Fluorene	<RL		0.5
Indeno(1,2,3-cd)pyrene	<RL		0.43
Naphthalene	<RL		1.0
Phenanthrene	<RL		0.64
Pyrene	<RL		0.27

ANALYSIS: Petroleum Range Organics (PRO) Method Ref: FL-PRO

Date Ext/Dig/Prep: 4/1/01 Date Analyzed: 4/3/01 Result Units: mg/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Petroleum Range Organics (PRO)	0.46	J	1.0

ANALYSIS: VOC's Navy (25 ml purge) Method Ref: 8260B

Date Ext/Dig/Prep: 4/3/01 Date Analyzed: 4/3/01 Result Units: ug/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,1,1,2-Tetrachloroethane	<RL		2.5
1,1,1-Trichloroethane	<RL		4
1,1,2,2-Tetrachloroethane	<RL		2

1,1,2-Trichloroethane	<RL		5
1,1-Dichloroethane	<RL		2
1,1-Dichloroethene	<RL		6
1,2,3-Trichlorobenzene	<RL		1.5
1,2,3-Trichloropropane	<RL		16
1,2,4-Trichlorobenzene	<RL		2
1,2,4-Trimethylbenzene	<RL		6.5
1,2-Dibromo-3-chloropropane	<RL		13
1,2-Dichlorobenzene	<RL		1.5
1,2-Dichloroethane	<RL		3
1,2-Dichloropropane	<RL		2
1,2-Ethylene Dibromide	<RL		3
1,3,5-Trimethylbenzene	<RL		2.5
1,3-Dichlorobenzene	<RL		6
1,3-Dichloropropane	<RL		2
1,4-Dichlorobenzene	<RL		1.5
2,2-Dichloropropane	<RL		17.5
2-Chlorotoluene	<RL		2
4-Chlorotoluene	<RL		3
Benzene	<RL		1
Bromobenzene	<RL		1.5
Bromochloromethane	<RL		2
Bromodichloromethane	<RL		4
Bromoform	<RL		6
Bromomethane	<RL		5.5
Carbon tetrachloride	<RL		10.5
Chlorobenzene	<RL		2
Chloroethane	<RL		5
Chloroform	<RL		1.5
Chloromethane	<RL		6.5
cis-1,2-Dichloroethene	<RL		6
cis-1,3-Dichloropropene	<RL		5
Dibromochloromethane	<RL		2.5
Dibromomethane	<RL		12
Dichlorodifluoromethane	<RL		5
Ethylbenzene	<RL		3
Hexachlorobutadiene	<RL		5.5
Isopropylbenzene	<RL		2.5
Methylene chloride	<RL		1.5
Naphthalene	0.69	J	2
n-Butylbenzene	<RL		5.5
n-Propylbenzene	<RL		2
p-Isopropyltoluene	<RL		6
Sec-Butylbenzene	<RL		6.5
Styrene	<RL		2
Tert-Butylbenzene	<RL		7
Tetrachloroethylene	<RL		7
Toluene	<RL		5.5
Total Xylenes	<RL		5
trans-1,2-Dichloroethene	<RL		3
trans-1,3-Dichloropropene	<RL		5
Trichloroethylene	<RL		5
Trichlorofluoromethane	<RL		4
Vinyl chloride	<RL		5.5

ANALYSIS: X PAH Surrogates (Liquid) Method Ref: 8310

Date Ext/Dig/Prep: 4/6/01 Date Analyzed: 4/6/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
p-terphenyl d14 (Range 12-152)	93		

ANALYSIS: X PRO QC Surrogates (Water) Method Ref: FL-PRO

Date Ext/Dig/Prep: 4/1/01 Date Analyzed: 4/3/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
C(39) (Range 42-193)	39	*	
o-Terphenyl (Range 82-142)	99		

ANALYSIS: X VOC QC Surrogates-Waters Method Ref: 5030B/8260B

Date Ext/Dig/Prep: 4/3/01 Date Analyzed: 4/3/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,2-Dichloroethane-d4 (78-114)	89		
4-Bromofluorobenzene (85-111)	105		
Toluene-d8 (88-106)	105		

PROJECT QUALITY CONTROL RESULTS

		Project Control Rec				Accuracy Limits		Project Control		Precision Limits		Project Control Recoveries		Accuracy Limits		Project Control		Precision Limits	
		MS	MSD	MS	MS	MS/MSD Recoveries		MS/MSD % Deviation		MS/MSD Deviation		LCS	LCS	LCS Recoveries		Field Dup % Deviation		Field Dup Deviation	
Method No[1]	Analyte / Component	Water		Soil[2]		Water	Soil[2]	Water	Soil[2]	Water	Soil[2]	Water	Soil[2]	Water	Soil[2]	Water	Soil[2]	Water	Soil[2]
	VOLATILES BY GC/MS					%	%			%	%			%	%			%	%
8260B	1 1,1 2-Tetrachloroethane	102	102			60-140	20-150	0%		<30	<50	98		62-108	62-108			<50	<75
8260B	1 1,1-Trichloroethane	103	99			60-140	20-150	3%		<30	<50	99		65-135	65-135			<50	<75
8260B	1,1 2 2-Tetrachloroethane	102	98			60-140	20-150	3%		<30	<50	92		64-135	64-135			<50	<75
8260B	1 1 2-Trichloroethane	104	101			60-140	20-150	3%		<30	<50	94		65-135	65-135			<50	<75
8260B	1 1-Dichloroethane	100	99			60-140	20-150	1%		30	<50	97		62-135	62-135			<50	<75
8260B	1 1-Dichloroethene	97	98			60-140	20-150	1%		<30	<50	98		65-135	65-135			<50	<75
8260B	1 2 3-Trichlorobenzene	107	103			60-140	20-150	4%		<30	<50	94		65-147	65-147			<50	<75
8260B	1 2 3-Trichloropropane	110	113			60-140	20-150	3%		30	50	91		65-135	65-135			<50	<75
8260B	1 2 4-Trichlorobenzene	110	113			60-140	20-150	3%		<30	<50	91		65-145	65-145			<50	<75
8260B	1 2,4-Trimethylbenzene	98	78			60-140	20-150	23%		<30	<50	104		65-135	65-135			50	<75
8260B	1 2-Dichloroethane	103	100			60-140	20-150	4%		<30	<50	96		58-137	58-137			<50	<75
8260B	1 2-Dichlorobenzene	100	102			60-140	20-150	2%		<30	<50	97		65-135	65-135			50	<75
8260B	1 2-Dibromo-3-chloropropane	104	96			60-140	20-150	8%		<30	<50	72		49-135	49-135			<50	<75
8260B	1 2-Dichloropropane	100	101			60-140	20-150	1%		30	<50	94		60-135	60-135			50	<75
8260B	1 2-Ethylene Dibromide	98	99			60-140	20-150	1%		30	50	94		65-135	65-135			50	75
8260B	1 3 5-Trimethylbenzene	106	97			60-140	20-150	10%		<30	<50	103		62-135	62-135			50	<75
8260B	1 3-Dichlorobenzene	101	101			60-140	20-150	1%		<30	<50	100		65-135	65-135			<50	<75
8260B	1 3-Dichloropropane	100	100			60-140	20-150	0%		30	<50	104		65-135	65-135			50	<75
8260B	1 4-Dichlorobenzene	97	99			60-140	20-150	1%		30	50	98		65-135	65-135			50	75
8260B	2 2-Dichloropropane	100	100			60-140	20-150	0%		30	50	104		65-135	65-135			50	75
8260B	2-Chlorotoluene	130	127			60-140	20-150	2%		30	50	104		63-135	63-135			<50	75
8260B	4-Chlorotoluene	95	95			60-140	20-150	0%		30	50	106		64-135	64-135			50	<75
8260B	Benzene	102	102			60-140	20-150	1%		30	<50	98		65-135	65-135			<50	75
8260B	Bromobenzene	100	99			60-140	20-150	1%		<30	<50	96		65-135	65-135			<50	<75
8260B	Bromochloromethane	97	96			60-140	20-150	1%		<30	<50	95		63-135	63-135			<50	<75
8260B	Bromodichloromethane	102	99			60-140	20-150	3%		30	<50	95		65-135	65-135			<50	<75
8260B	Bromoform	92	88			60-140	20-150	5%		<30	<50	85		65-135	65-135			<50	<75
8260B	Bromomethane	115	101			60-140	20-150	12%		<30	<50	98		62-135	62-135			<50	<75
8260B	Carbon Tetrachloride	104	101			60-140	20-150	3%		30	<50	101		52-135	52-135			<50	<75
8260B	Chlorobenzene	102	100			60-140	20-150	1%		30	<50	100		65-135	65-135			<50	<75
8260B	Chloroethane	90	89			60-140	20-150	1%		<30	<50	95		55-135	55-135			<50	<75
8260B	Chloroform	102	99			60-140	20-150	3%		<30	<50	98		64-135	64-135			<50	<75
8260B	Chloromethane	91	87			60-140	20-150	5%		<30	<50	93		65-135	65-135			<50	<75
8260B	Cis-1,2-Dichloroethene	99	98			60-140	20-150	2%		<30	<50	99		65-135	65-135			<50	<75
8260B	Cis-1 3-Dichloropropene	98	102			60-140	20-150	4%		<30	<50	97		64-135	64-135			<50	<75
8260B	Dibromochloromethane	97	97			60-140	20-150	0%		<30	<50	93		63-135	63-135			<50	<75
8260B	Dibromomethane	103	101			60-140	20-150	2%		<30	<50	96		59-137	59-137			<50	<75
8260B	Dichlorodifluoromethane	84	80			60-140	20-150	4%		<30	<50	85		65-135	65-135			<50	<75
8260B	Ethylbenzene	105	98			60-140	20-150	7%		<30	<50	103		65-135	65-135			<50	<75
8260B	Hexachlorobutadiene	118	116			60-140	20-150	2%		<30	<50	109		65-135	65-135			<50	<75
8260B	Isopropylbenzene	108	102			60-140	20-150	6%		<30	<50	103		65-135	65-135			<50	<75
8260B	total-Xylene	103	100			60-140	20-150	3%		<30	<50	100		65-135	65-135			<50	75
8260B	Methylene Chloride	99	98			60-140	20-150	1%		<30	<50	92		65-135	65-135			<50	<75
8260B	n-Butylbenzene	117	111			60-140	20-150	4%		<30	<50	107		65-135	65-135			<50	<75
8260B	n-Propylbenzene	109	104			60-140	20-150	4%		<30	<50	106		65-135	65-135			<50	<75

Notes
1) SW-846 Methods unless otherwise noted
2) Includes sediments, waste solids

NS Not Specified
NA Not applicable

PROJECT QUALITY CONTROL RESULTS

		Project Control Rec				Accuracy Limits		Project Control		Precision Limits		Project Control Recoveries		Accuracy Limits		Project Control		Precision Limits	
		MS	MSD	MS	MS	MS/MSD Recoveries		MS/MSD % Deviation		MS/MSD Deviation		LCS	LCS	LCS Recoveries		Field Dup % Deviation		Field Dup Deviation	
Method No[1]	Analyte / Component	Water		Soil[2]		Water	Soil[2]	Water	Soil[2]	Water	Soil[2]	Water	Soil[2]	Water	Soil[2]	Water	Soil[2]	Water	Soil[2]
8260B	Naphthalene	118	131			60-140	20-150	11%		<30	<50	73		65-135	65-135			<50	<75
8260B	p-Isopropyltoluene	111	108			60-140	20-150	3%		<30	<50	106		65-135	65-135			<50	<75
8260B	Sec-Butylbenzene	111	105			60-140	20-150	5%		<30	<50	107		65-135	65-135			<50	<75
8260B	Styrene	106	104			60-140	20-150	2%		<30	<50	101		65-135	65-135			<50	<75
8260B	Trichloroethylene	103	103			60-140	20-150	0%		<30	<50	98		61-135	61-135			<50	<75
8260B	Tert-Butylbenzene	62	59			60-140	20-150	5%		<30	<50	105		65-135	65-135			<50	<75
8260B	Tetrachloroethylene	100	98			60-140	20-150	2%		<30	<50	97		61-135	61-135			<50	<75
8260B	Toluene	104	103			60-140	20-150	1%		<30	<50	98		64-135	64-135			<50	<75
8260B	Trans-1,2-Dichloroethene	98	99			60-140	20-150	1%		<30	<50	98		65-135	65-135			<50	<75
8260B	Trans-1,3-Dichloropropene	96	99			60-140	20-150	3%		<30	<50	94		56-135	56-135			<50	<75
8260B	Trichlorofluoromethane	105	101			60-140	20-150	4%		<30	<50	99		57-135	57-135			<50	<75
8260B	Vinyl Chloride	92	91			60-140	20-150	1%		<30	<50	95		36-144	36-144			<50	<75
8260B	Toluene-d8 (surr)	103	93			75-125	65-135	10%		NA	NA	95		NA	NA			NA	NA
8260B	4-Bromofluorobenzene (surr)	108	96			75-125	65-135	12%		NA	NA	98		NA	NA			NA	NA
8260B	1,2-Dichloroethane-d4 (surr)	107	92			62-139	52-149	14%		NA	NA	95		NA	NA			NA	NA

METALS BY ICP						%	%			%	%			%	%			%	%
6010B	Lead	104	107			50-150	30-170	3%	#DIV/0!	30	<50	103		79-116	79-116			<50	<75

PETROLEUM HYDROCARBONS						%	%			%	%			%	%			%	%
FL-PRO	TPH	24	20			50-150	30-170	18%	#DIV/0!	30	50	71		75-125	70-130			50	75

Notes
1) SW 846 Methods unless otherwise noted
2) Includes sediments, waste solids

NS Not Specified
NA Not Applicable

AAL# 27420 ABL/2°C.

CH2M Hill Constructors, Inc.
115 Perimeter Center Place, Suite ~00
Atlanta, GA 30346-12~8
Tel No (~~0) 604-9182 , Fax No (~~0) 604-9282

CHAIN-OF-CUSTODY RECORD

COC NUMBER: **154282-14**

PROJECT NAME	PROJECT NUMBER	LAB NAME AND CONTACT	FAX AND MAIL REPORTS/EDD TO RECIPIENT 1 (Name and Company)	RECIPIENT 1 (Address, Tel No , and Fax No)
N.A.S. Cecil Field 103rd Street	154282	Accura Analytical Laboratory, Inc.	Jennifer Zimmerman / J.A Jones Env. Services	6219 Authority Ave. Jacksonville, FL 32222 (904) 7774812,FAX: (904) 7774262
PROJECT PHASE/SITE/TASK	CTO OR DO NUMBER	LAB PO NUMBER	FAX AND MAIL REPORTS/EDD TO RECIPIENT 2 (Name and Company)	RECIPIENT 2 (Address, Tel No , and Fax No)
103rd Street Quarterly GW Sampling Event	0029	1760	Jeff Wilmoth / CH2M Hill Constuctors, Inc.	115 Perimeter Center Place, N.E. Suite 700 Atlanta, GA 30346 (770)604-9182 Ext.561 FAX:604-9282
PROJECT CONTACT	PROJECT TEL NO AND FAX NO	LAB TEL NO AND FAX NO	FAX AND MAIL REPORTS/EDD TO RECIPIENT 3 (Name and Company)	RECIPIENT 3 (Address, Tel No , and Fax No)
Bill Canelos	Ph:(904)777-4812 Fax:(904) 777-4262	Ph: 770-449-8800 Fax: 770-449-5477		

ANALYSES REQUIRED (Include Method Numbers)

ITEM	SAMPLE IDENTIFIER	SAMPLE DESCRIPTION/LOCATION	MATRIX (see codes on back)	DATE COLLECTED	TIME COLLECTED	DATA PKG LEVEL (see codes on back)	TAT (calendar days)	Volatiles by 8021B	PAHs by 8310	Lead by 239.2	TRPH by FL-PRO						SAMPLE TYPE (see codes on back)	COMMENTS/ SCREENING READINGS	LAB ID
1	029-SMW01-Q1-01-10	CEF-103-SMW-01	W	03/27/01	10:15	III/C	14	3	2	1	2						Grab	~~MS/MSD~~	AC10497
2	029-SMW02-Q1-01-10	CEF-103-SMW-02	W	03/27/01	11:40	III/C	14	3	2	1	2						Grab		98
3	029-SMW03-Q1-01-10	CEF-103-SMW-03	W	03/27/01	10:50	III/C	14	3	2	1	2						Grab		99
4	029-SMW07-Q1-01-10	CEF-103-SMW-07	W	03/27/01	13:20	III/C	14	3	2	1	2						Grab		AC10500
5	029-SMW10-Q1-01-10	CEF-103-SMW-10	W	03/27/01	13:55	III/C	14	3	2	1	2						Grab		1
6	029-SMW11-Q1-01-10	CEF-103-SMW-11	W	03/27/01	11:15	III/C	14	9	6	3	6						Grab	MS/MSD	2
7	029-DUP-Q1-01-10	Duplicate	W	03/27/01		III/C	14	3	2	1	2						Grab		3
8	029-EQB-Q1-01-10	Equipment Blank	W	03/27/01	13:30	III/C	14	3	2	1	2						Grab		4
9	Temp Blank	Temp Blank	W	03/27/01		III/C	14					1					Grab	Prepared By Lab	
10	029-TB-Q1-01-10	Trip Blank	W	03/27/01		III/C	14	2									Grab	Prepared By Lab	AC10505

SAMPLER(S) AND COMPANY (please print)	COURIER AND SHIPPING NUMBER	SAMPLES TEMPERATURE AND CONDITION UPON RECEIPT:
Randy Dumaop / Scott Sloan / Roger Deisler J.A. Jones Environmental Services	Federal Express TRK #790007788503, 791511320656, 791511320921, 790921605167.	

RELINQUISHED BY	DATE	TIME	RECEIVED BY	DATE	TIME
Printed Name and Signature			Printed Name and Signature		
R.Dumaop	3/27/01	17:30	Federal Express	3/27/01	17:30
Printed Name and Signature			Printed Name and Signature		
Printed Name and Signature			Printed Name and Signature		
FED EX	3-28-01	1025		3-28-01	1025

Distribution: [ ] Original - Laboratory (To be returned with Analytical Report), [ ] Copy 1 - Project File, [ ] Copy 2 - PMO

Form CCI001, Rev 02/00

ACCURA ANALYTICAL LABORATORY, INC.

SAMPLE RECEIPT CHECKLIST VERSION 4 Client Code: 0397-07 AAL Project Mg: B.J.H.

Client Project Name: NAS CECIL FIELD 103RD. ST. QTRLY GW SAMPLE ACCURA Lab Project#: 27420

Are there any tests requested with holding times or TAT's less than 48 HOURS? YES (NO)
If YES, you must communicate this to the appropriate analyst(s) immediately!!!
Preliminary Examination: Initials: ABL Date received: 3-28-01 Date cooler was opened: 3-28-01

1.	Did cooler/package come with a shipping slip (airbill, Etc.)? If YES, enter carrier name and airbill number here: FED EX SEE REVERSE Describe type of packing in cooler: ICE ****If cooler was hand delivered, CIRCLE HERE, skip to item #5****	(YES)		NO
2.	Were custody seals on outside of cooler? If YES, how many: 2 seal dated: 3-27-01 seal name: ILLEGABLE	(YES)		NO
3.	Were custody seals unbroken and intact at the date and time of arrival?	(YES)	N/A	NO
4.	Were custody papers sealed in a plastic bag to prevent damage to chain of custody?	(YES)		NO
5.	If required, was enough ice used? (Internal cooler temperature, 2°C)	(YES)	N/A	NO
6.	Did you sign custody papers in the appropriate place?	(YES)		NO
7.	Was project identifiable from custody papers? If YES, enter project name at the top.	(YES)		NO

Complete project file with green sheet, proper file tag, and shipping documentation. Line up samples following chain. Complete Container Count Sheet including extra containers for dissolved metals filtrates. Complete login in Labworks and generate AAL ID Barcode Labels.

8.	Did all containers arrive unbroken and were labels in good condition?	(YES)		NO
9.	Were custody papers filled out properly and did all labels agree with custody papers?	YES		(NO) 7
10.	Were correct containers and sufficient amount of sample sent for the test indicated?	(YES)		NO
11.	All samples collected within three days of date received for these analyses (Reactive Cn & S, Solids in H2O, Sulfide, Sulfite, !ALL! Extractable Organic Waters)? If NO, coordinate with the project manager to ensure that no samples go out of hold!!!	(YES)		NO
12.	No residual chlorine found in waters for these analyses: (Cyanide, PAH, SVOC, Pesticides, PCB's, Herbicides)? Checked by: ABL (Initials)	(YES)	N/A	NO
13.	Were samples properly chemically preserved, if required, upon receipt? (For example: pH checked for waters for all Metals, Wet Chemistry, Pesticides, PCB's, Herbicides, and low level VOC/BTEX soil samples submitted in either Encore samplers or $NaHSO_4$ labeled vials) Preservation checked by: ABL ABL (Initials)	(YES) (YES) ABL 3.28.01	(N/A)	NO
14.	Were air bubbles (>1/4 inch) absent in VOC/BTEX samples? If NO, list ID # on back:	(YES)	N/A	NO
15.	If there are samples for dissolved metals, were they field filtered? If NO, list date and time samples were filtered and preserved in lab:	YES	(N/A)	NO

16.	Were Encore samplers included? If YES, date and time preserved with $NaHSO_4$: By whom:	YES	(NO)
17.	Does this submittal contain soil $NaHSO_4$ vials for BTEX/GRO/VOC'S? If YES, vials weighed by and entered into vial database by:	YES	(NO)
18.	Initials of laboratory personnel responsible for labeling laboratory I.D. numbers on containers:		

Keep samples and chain out. Before logging samples to their appropriate location, another person must review the entire project ensuring that information on the AAL ID Barcode label matches the container label, and that all information is consistent with the chain.
Final check and samples logged to locations by: (Initials)

19.	Was it necessary to call the assigned project manager in order to proceed with login? If YES, give details on the back of this form.	YES	(NO)
20.	Who was called? By whom? Date/Time:		

Project M. Review: BOA (Initials) 3/29/01 (Date)

TestAmerica
INCORPORATED

ANALYTICAL REPORT

ACCURA ANALYTICAL 2656

6017 FINANCIAL DR.
NORCROSS, GA 30071

Project: 27420
Project Name: CH2M-CCL NAVY PROJECT
Sampler:

Lab Number: 01-A42447
Sample ID: AC10497
Sample Type: Water
Site ID:

Date Collected: 3/27/01
Time Collected: 10:15
Date Received: 3/30/01
Time Received: 9:00

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
ORGANIC PARAMETERS										
Naphthalene	ND	ug/l	1.02	1.00	1	4/ 6/01	8:58	Noorbakhsh	8310	5446
Acenaphthene	ND	ug/l	1.02	1.00	1	4/ 6/01	8:58	Noorbakhsh	8310	5446
Anthracene	ND	ug/l	0.67	0.66	1	4/ 6/01	8:58	Noorbakhsh	8310	5446
Fluoranthene	ND	ug/l	0.21	0.21	1	4/ 6/01	8:58	Noorbakhsh	8310	5446
Fluorene	ND	ug/l	0.51	0.50	1	4/ 6/01	8:58	Noorbakhsh	8310	5446
Pyrene	ND	ug/l	0.28	0.27	1	4/ 6/01	8:58	Noorbakhsh	8310	5446
Benzo(a)anthracene	ND	ug/l	0.13	0.13	1	4/ 6/01	8:58	Noorbakhsh	8310	5446
Benzo(a)pyrene	ND	ug/l	0.10	0.10	1	4/ 6/01	8:58	Noorbakhsh	8310	5446
Benzo(b)fluoranthene	ND	ug/l	0.18	0.18	1	4/ 6/01	8:58	Noorbakhsh	8310	5446
Benzo(k)fluoranthene	ND	ug/l	0.17	0.17	1	4/ 6/01	8:58	Noorbakhsh	8310	5446
Chrysene	ND	ug/l	0.15	0.15	1	4/ 6/01	8:58	Noorbakhsh	8310	5446
Dibenzo(a,h)anthracene	ND	ug/l	0.31	0.30	1	4/ 6/01	8:58	Noorbakhsh	8310	5446
Indeno(1,2,3-cd)pyrene	ND	ug/l	0.44	0.43	1	4/ 6/01	8:58	Noorbakhsh	8310	5446
Acenaphthylene	ND	ug/l	2.04	2.00	1	4/ 6/01	8:58	Noorbakhsh	8310	5446
Benzo(g,h,i)perylene	ND	ug/l	0.78	0.76	1	4/ 6/01	8:58	Noorbakhsh	8310	5446
Phenanthrene	ND	ug/l	0.65	0.64	1	4/ 6/01	8:58	Noorbakhsh	8310	5446
1-Methylnapthalene	ND	ug/l	1.02	1.00	1	4/ 6/01	8:58	Noorbakhsh	8310	5446
2-Methylnaphthalene	ND	ug/l	1.02	1.00	1	4/ 6/01	8:58	Noorbakhsh	8310	5446
MISCELLANEOUS CHEMISTRY										
pH	6.80	pH Units			1	3/30/01	15:46	K. Stewart	9040/150.1	1801

Sample report continued . . .

TestAmerica
INCORPORATED

ANALYTICAL REPORT

Laboratory Number: 01-A42447
Sample ID: AC10497
Project: 27420

TCLP Results

Analyte	Result	Units	Reg Limit	Matrix Spike Recovery (%)	Date	Method
					4/10/01	

ND = Not detected at the report limit.

Sample Extraction Data

Parameter	Ut/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
PAH's	980. ml	1.00 ml	4/ 2/01		D.Yeager	3510/610

Surrogate	% Recovery	Target Range
PAH Surr., p-terphenyl d14	65.	12. - 152.

= Recovery outside Laboratory historical limits.

Sample for pH analysis received outside method prescribed holding time.

Sample report continued . . .

TestAmerica
INCORPORATED

ANALYTICAL REPORT

Laboratory Number: 01-A42447
Sample ID: AC10497
Project: 27420

These results relate only to the items tested.
This report shall not be reproduced except in full and with permission of the laboratory.

Report Approved By: _____ Report Date: 4/10/01

Paul E. Lane, Jr., Lab Director
Michael H. Dunn, M.S., Technical Director
Johnny A. Mitchell, Dir. Technical Serv.
Eric S. Smith, Assistant Technical Director
Gail A. Lage, Technical Serv.
Glenn L. Norton, Technical Serv.
Kelly S. Comstock, Technical Serv.
Pamela A. Langford, Technical Serv.

Laboratory Certification Number: HRS-E87358

End of Sample Report.

TestAmerica
INCORPORATED

ANALYTICAL REPORT

ACCURA ANALYTICAL 2656

6017 FINANCIAL DR.
NORCROSS, GA 30071

Project: 27420
Project Name: CH2M-CCL NAVY PROJECT
Sampler:

Lab Number: 01-A42448
Sample ID: AC10498
Sample Type: Water
Site ID:

Date Collected: 3/27/01
Time Collected: 11:40
Date Received: 3/30/01
Time Received: 9:00

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
ORGANIC PARAMETERS										
Naphthalene	ND	ug/l	1.05	1.00	1	4/ 6/01	8:58	Noorbakhsh	8310	5446
Acenaphthene	ND	ug/l	1.05	1.00	1	4/ 6/01	8:58	Noorbakhsh	8310	5446
Anthracene	ND	ug/l	0.69	0.66	1	4/ 6/01	8:58	Noorbakhsh	8310	5446
Fluoranthene	ND	ug/l	0.22	0.21	1	4/ 6/01	8:58	Noorbakhsh	8310	5446
Fluorene	ND	ug/l	0.53	0.50	1	4/ 6/01	8:58	Noorbakhsh	8310	5446
Pyrene	ND	ug/l	0.28	0.27	1	4/ 6/01	8:58	Noorbakhsh	8310	5446
Benzo(a)anthracene	ND	ug/l	0.14	0.13	1	4/ 6/01	8:58	Noorbakhsh	8310	5446
Benzo(a)pyrene	ND	ug/l	0.11	0.10	1	4/ 6/01	8:58	Noorbakhsh	8310	5446
Benzo(b)fluoranthene	ND	ug/l	0.19	0.18	1	4/ 6/01	8:58	Noorbakhsh	8310	5446
Benzo(k)fluoranthene	ND	ug/l	0.18	0.17	1	4/ 6/01	8:58	Noorbakhsh	8310	5446
Chrysene	ND	ug/l	0.16	0.15	1	4/ 6/01	8:58	Noorbakhsh	8310	5446
Dibenzo(a,h)anthracene	ND	ug/l	0.32	0.30	1	4/ 6/01	8:58	Noorbakhsh	8310	5446
Indeno(1,2,3-cd)pyrene	ND	ug/l	0.45	0.43	1	4/ 6/01	8:58	Noorbakhsh	8310	5446
Acenaphthylene	ND	ug/l	2.11	2.00	1	4/ 6/01	8:58	Noorbakhsh	8310	5446
Benzo(g,h,i)perylene	ND	ug/l	0.80	0.76	1	4/ 6/01	8:58	Noorbakhsh	8310	5446
Phenanthrene	ND	ug/l	0.67	0.64	1	4/ 6/01	8:58	Noorbakhsh	8310	5446
1-Methylnapthalene	ND	ug/l	1.05	1.00	1	4/ 6/01	8:58	Noorbakhsh	8310	5446
2-Methylnaphthalene	ND	ug/l	1.05	1.00	1	4/ 6/01	8:58	Noorbakhsh	8310	5446
MISCELLANEOUS CHEMISTRY										
pH	6.40	pH Units			1	3/30/01	15:46	K. Stewart	9040/150.1	1801

Sample report continued . . .

TestAmerica
INCORPORATED

ANALYTICAL REPORT

Laboratory Number: 01-A42448
Sample ID: AC10498
Project: 27420

TCLP Results

Analyte	Result	Units	Rpg Limit	Matrix Spike Recovery (%)	Date	Method
					4/10/01	

ND = Not detected at the report limit.

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
PAH's	950. ml	1.00 ml	4/ 2/01		D.Yeager	3510/610

Surrogate	% Recovery	Target Range
PAH Surr., p-terphenyl d14	65.	12. - 152.

= Recovery outside Laboratory historical limits.

Sample for pH analysis received outside method prescribed holding time.

Sample report continued . . .

TestAmerica
INCORPORATED

ANALYTICAL REPORT

Laboratory Number: 01-A42448
Sample ID: AC10498
Project: 27420

These results relate only to the items tested.
This report shall not be reproduced except in full and with permission of the laboratory.

Report Approved By: Report Date: 4/10/01

Paul E. Lane, Jr., Lab Director
Michael H. Dunn, M.S., Technical Director
Johnny A. Mitchell, Dir. Technical Serv.
Eric S. Smith, Assistant Technical Director
Gail A. Lage, Technical Serv.
Glenn L. Norton, Technical Serv.
Kelly S. Comstock, Technical Serv.
Pamela A. Langford, Technical Serv.

Laboratory Certification Number: HRS-E87358

End of Sample Report.

TestAmerica

ANALYTICAL REPORT

ACCURA ANALYTICAL 2656

6017 FINANCIAL DR.
NORCROSS, GA 30071

Project: 27420
Project Name: CH2M-CCL NAVY PROJECT
Sampler:

Lab Number: 01-A42449
Sample ID: AC10499
Sample Type: Water
Site ID:

Date Collected: 3/27/01
Time Collected: 10:50
Date Received: 3/30/01
Time Received: 9:00

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
ORGANIC PARAMETERS										
Naphthalene	ND	ug/l	1.01	1.00	1	4/ 6/01	8:58	Noorbakhsh	8310	5446
Acenaphthene	ND	ug/l	1.01	1.00	1	4/ 6/01	8:58	Noorbakhsh	8310	5446
Anthracene	ND	ug/l	0.67	0.66	1	4/ 6/01	8:58	Noorbakhsh	8310	5446
Fluoranthene	ND	ug/l	0.21	0.21	1	4/ 6/01	8:58	Noorbakhsh	8310	5446
Fluorene	ND	ug/l	0.51	0.50	1	4/ 6/01	8:58	Noorbakhsh	8310	5446
Pyrene	ND	ug/l	0.27	0.27	1	4/ 6/01	8:58	Noorbakhsh	8310	5446
Benzo(a)anthracene	ND	ug/l	0.13	0.13	1	4/ 6/01	8:58	Noorbakhsh	8310	5446
Benzo(a)pyrene	ND	ug/l	0.10	0.10	1	4/ 6/01	8:58	Noorbakhsh	8310	5446
Benzo(b)fluoranthene	ND	ug/l	0.18	0.18	1	4/ 6/01	8:58	Noorbakhsh	8310	5446
Benzo(k)fluoranthene	ND	ug/l	0.17	0.17	1	4/ 6/01	8:58	Noorbakhsh	8310	5446
Chrysene	ND	ug/l	0.15	0.15	1	4/ 6/01	8:58	Noorbakhsh	8310	5446
Dibenzo(a,h)anthracene	ND	ug/l	0.30	0.30	1	4/ 6/01	8:58	Noorbakhsh	8310	5446
Indeno(1,2,3-cd)pyrene	ND	ug/l	0.43	0.43	1	4/ 6/01	8:58	Noorbakhsh	8310	5446
Acenaphthylene	ND	ug/l	2.02	2.00	1	4/ 6/01	8:58	Noorbakhsh	8310	5446
Benzo(g,h,i)perylene	ND	ug/l	0.77	0.76	1	4/ 6/01	8:58	Noorbakhsh	8310	5446
Phenanthrene	ND	ug/l	0.65	0.64	1	4/ 6/01	8:58	Noorbakhsh	8310	5446
1-Methylnapthalene	ND	ug/l	1.01	1.00	1	4/ 6/01	8:58	Noorbakhsh	8310	5446
2-Methylnaphthalene	ND	ug/l	1.01	1.00	1	4/ 6/01	8:58	Noorbakhsh	8310	5446
MISCELLANEOUS CHEMISTRY										
pH	4.60	pH Units			1	3/30/01	15:49	K. Stewart	9040/150.1	1801

Sample report continued . . .

TestAmerica
INCORPORATED

ANALYTICAL REPORT

Laboratory Number: 01-A42449
Sample ID: AC10499
Project: 27420

TCLP Results

Analyte	Result	Units	Reg Limit	Matrix Spike Recovery (%)	Date	Method
					4/10/01	

ND = Not detected at the report limit.

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
PAH's	990. ml	1.00 ml	4/ 2/01		D.Yeager	3510/610

Surrogate	% Recovery	Target Range
PAH Surr., p-terphenyl d14	69.	12. - 152.

= Recovery outside Laboratory historical limits.

Sample for pH analysis received outside method prescribed holding time.

Sample report continued . . .

TestAmerica
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ANALYTICAL REPORT

Laboratory Number: 01-A42449
Sample ID: AC10499
Project: 27420

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Report Approved By: Report Date: 4/10/01

Paul E. Lane, Jr., Lab Director
Michael H. Dunn, M.S., Technical Director
Johnny A. Mitchell, Dir. Technical Serv.
Eric S. Smith, Assistant Technical Director
Gail A. Lage, Technical Serv.
Glenn L. Norton, Technical Serv.
Kelly S. Comstock, Technical Serv.
Pamela A. Langford, Technical Serv.

Laboratory Certification Number: HRS-E87358

End of Sample Report.

TestAmerica
INCORPORATED

ANALYTICAL REPORT

ACCURA ANALYTICAL 2656

6017 FINANCIAL DR.
NORCROSS, GA 30071

Project: 27420
Project Name: CH2M-CCL NAVY PROJECT
Sampler:

Lab Number: 01-A42450
Sample ID: AC10500
Sample Type: Water
Site ID:

Date Collected: 3/27/01
Time Collected: 13:20
Date Received: 3/30/01
Time Received: 9:00

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
ORGANIC PARAMETERS										
Naphthalene	ND	ug/l	1.00	1.00	1	4/ 6/01	8:58	Noorbakhsh	8310	5446
Acenaphthene	ND	ug/l	1.00	1.00	1	4/ 6/01	8:58	Noorbakhsh	8310	5446
Anthracene	ND	ug/l	0.66	0.66	1	4/ 6/01	8:58	Noorbakhsh	8310	5446
Fluoranthene	ND	ug/l	0.21	0.21	1	4/ 6/01	8:58	Noorbakhsh	8310	5446
Fluorene	ND	ug/l	0.50	0.50	1	4/ 6/01	8:58	Noorbakhsh	8310	5446
Pyrene	ND	ug/l	0.27	0.27	1	4/ 6/01	8:58	Noorbakhsh	8310	5446
Benzo(a)anthracene	ND	ug/l	0.13	0.13	1	4/ 6/01	8:58	Noorbakhsh	8310	5446
Benzo(a)pyrene	ND	ug/l	0.10	0.10	1	4/ 6/01	8:58	Noorbakhsh	8310	5446
Benzo(b)fluoranthene	ND	ug/l	0.18	0.18	1	4/ 6/01	8:58	Noorbakhsh	8310	5446
Benzo(k)fluoranthene	ND	ug/l	0.17	0.17	1	4/ 6/01	8:58	Noorbakhsh	8310	5446
Chrysene	ND	ug/l	0.15	0.15	1	4/ 6/01	8:58	Noorbakhsh	8310	5446
Dibenzo(a,h)anthracene	ND	ug/l	0.30	0.30	1	4/ 6/01	8:58	Noorbakhsh	8310	5446
Indeno(1,2,3-cd)pyrene	ND	ug/l	0.43	0.43	1	4/ 6/01	8:58	Noorbakhsh	8310	5446
Acenaphthylene	ND	ug/l	2.00	2.00	1	4/ 6/01	8:58	Noorbakhsh	8310	5446
Benzo(g,h,i)perylene	ND	ug/l	0.76	0.76	1	4/ 6/01	8:58	Noorbakhsh	8310	5446
Phenanthrene	ND	ug/l	0.64	0.64	1	4/ 6/01	8:58	Noorbakhsh	8310	5446
1-Methylnapthalene	ND	ug/l	1.00	1.00	1	4/ 6/01	8:58	Noorbakhsh	8310	5446
2-Methylnaphthalene	ND	ug/l	1.00	1.00	1	4/ 6/01	8:58	Noorbakhsh	8310	5446
MISCELLANEOUS CHEMISTRY										
pH	6.30	pH Units			1	3/30/01	15:49	K. Stewart	9040/150.1	1801

Sample report continued . . .

TestAmerica
INCORPORATED

ANALYTICAL REPORT

Laboratory Number: 01-A42450
Sample ID: AC10500
Project: 27420

TCLP Results

Analyte	Result	Units	Reg Limit	Matrix Spike Recovery (%)	Date	Method
					4/10/01	

ND - Not detected at the report limit.

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
PAH's	1000 ml	1.00 ml	4/ 2/01		D.Yeager	3510/610

Surrogate	% Recovery	Target Range
PAH Surr., p-terphenyl d14	60.	12. - 152.

- Recovery outside Laboratory historical limits.

Sample for pH analysis received outside method prescribed holding time.

Sample report continued . . .

TestAmerica
INCORPORATED

ANALYTICAL REPORT

Laboratory Number: 01-A42450
Sample ID: AC10500
Project: 27420

These results relate only to the items tested.
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Report Approved By: Report Date: 4/10/01

Paul E. Lane, Jr., Lab Director
Michael H. Dunn, M.S., Technical Director
Johnny A. Mitchell, Dir. Technical Serv.
Eric S. Smith, Assistant Technical Director
Gail A. Lage, Technical Serv.
Glenn L. Norton, Technical Serv.
Kelly S. Comstock, Technical Serv.
Pamela A. Langford, Technical Serv.

Laboratory Certification Number: HRS-E87358

End of Sample Report.

TestAmerica
INCORPORATED

ANALYTICAL REPORT

ACCURA ANALYTICAL 2656

6017 FINANCIAL DR.
NORCROSS, GA 30071

Project: 27420
Project Name: CH2M-CCL NAVY PROJECT
Sampler:

Lab Number: 01-A42451
Sample ID: AC10501
Sample Type: Water
Site ID:

Date Collected: 3/27/01
Time Collected: 13:55
Date Received: 3/30/01
Time Received: 9:00

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
ORGANIC PARAMETERS										
Naphthalene	ND	ug/l	1.01	1.00	1	4/ 6/01	8:58	Noorbakhsh	8310	5446
Acenaphthene	ND	ug/l	1.01	1.00	1	4/ 6/01	8:58	Noorbakhsh	8310	5446
Anthracene	ND	ug/l	0.67	0.66	1	4/ 6/01	8:58	Noorbakhsh	8310	5446
Fluoranthene	ND	ug/l	0.21	0.21	1	4/ 6/01	8:58	Noorbakhsh	8310	5446
Fluorene	ND	ug/l	0.51	0.50	1	4/ 6/01	8:58	Noorbakhsh	8310	5446
Pyrene	ND	ug/l	0.27	0.27	1	4/ 6/01	8:58	Noorbakhsh	8310	5446
Benzo(a)anthracene	ND	ug/l	0.13	0.13	1	4/ 6/01	8:58	Noorbakhsh	8310	5446
Benzo(a)pyrene	ND	ug/l	0.10	0.10	1	4/ 6/01	8:58	Noorbakhsh	8310	5446
Benzo(b)fluoranthene	ND	ug/l	0.18	0.18	1	4/ 6/01	8:58	Noorbakhsh	8310	5446
Benzo(k)fluoranthene	ND	ug/l	0.17	0.17	1	4/ 6/01	8:58	Noorbakhsh	8310	5446
Chrysene	ND	ug/l	0.15	0.15	1	4/ 6/01	8:58	Noorbakhsh	8310	5446
Dibenzo(a,h)anthracene	ND	ug/l	0.30	0.30	1	4/ 6/01	8:58	Noorbakhsh	8310	5446
Indeno(1,2,3-cd)pyrene	ND	ug/l	0.43	0.43	1	4/ 6/01	8:58	Noorbakhsh	8310	5446
Acenaphthylene	ND	ug/l	2.02	2.00	1	4/ 6/01	8:58	Noorbakhsh	8310	5446
Benzo(g,h,i)perylene	ND	ug/l	0.77	0.76	1	4/ 6/01	8:58	Noorbakhsh	8310	5446
Phenanthrene	ND	ug/l	0.65	0.64	1	4/ 6/01	8:58	Noorbakhsh	8310	5446
1-Methylnaphthalene	ND	ug/l	1.01	1.00	1	4/ 6/01	8:58	Noorbakhsh	8310	5446
2-Methylnaphthalene	ND	ug/l	1.01	1.00	1	4/ 6/01	8:58	Noorbakhsh	8310	5446
MISCELLANEOUS CHEMISTRY										
pH	5.30	pH Units			1	3/30/01	15:52	K. Stewart	9040/150.1	1801

Sample report continued . . .

TestAmerica INCORPORATED

ANALYTICAL REPORT

Laboratory Number: 01-A42451
Sample ID: AC10501
Project: 27420

TCLP Results

Analyte	Result	Units	Reg Limit	Matrix Spike Recovery (%)	Date	Method
					4/10/01	

ND = Not detected at the report limit.

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
PAH's	990. ml	1.00 ml	4/ 2/01		D.Yeager	3510/610

Surrogate	% Recovery	Target Range
PAH Surr., p-terphenyl d14	49.	12. - 152.

- Recovery outside Laboratory historical limits.

Sample for pH analysis received outside method prescribed holding time.

Sample report continued . . .

TestAmerica
INCORPORATED

ANALYTICAL REPORT

Laboratory Number: 01-A42451
Sample ID: AC10501
Project: 27420
Page 3

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Report Approved By: Report Date: 4/10/01

Paul E. Lane, Jr., Lab Director
Michael H. Dunn, M.S., Technical Director
Johnny A. Mitchell, Dir. Technical Serv.
Eric S. Smith, Assistant Technical Director
Gail A. Lage, Technical Serv.
Glenn L. Norton, Technical Serv.
Kelly S. Comstock, Technical Serv.
Pamela A. Langford, Technical Serv.

Laboratory Certification Number: HRS-E87358

End of Sample Report.

TestAmerica INCORPORATED

ANALYTICAL REPORT

ACCURA ANALYTICAL 2656

6017 FINANCIAL DR.
NORCROSS, GA 30071

Project: 27420
Project Name: CH2M-CCL NAVY PROJECT
Sampler:

Lab Number: 01-A42452
Sample ID: AC10502
Sample Type: Water
Site ID:

Date Collected: 3/27/01
Time Collected: 11:15
Date Received: 3/30/01
Time Received: 9:00

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
ORGANIC PARAMETERS										
Naphthalene	2.74	ug/l	1.01	1.00	1	4/ 6/01	8:58	Noorbakhsh	8310	5446
Acenaphthene	ND	ug/l	1.01	1.00	1	4/ 6/01	8:58	Noorbakhsh	8310	5446
Anthracene	ND	ug/l	0.67	0.66	1	4/ 6/01	8:58	Noorbakhsh	8310	5446
Fluoranthene	ND	ug/l	0.21	0.21	1	4/ 6/01	8:58	Noorbakhsh	8310	5446
Fluorene	ND	ug/l	0.51	0.50	1	4/ 6/01	8:58	Noorbakhsh	8310	5446
Pyrene	ND	ug/l	0.27	0.27	1	4/ 6/01	8:58	Noorbakhsh	8310	5446
Benzo(a)anthracene	ND	ug/l	0.13	0.13	1	4/ 6/01	8:58	Noorbakhsh	8310	5446
Benzo(a)pyrene	ND	ug/l	0.10	0.10	1	4/ 6/01	8:58	Noorbakhsh	8310	5446
Benzo(b)fluoranthene	ND	ug/l	0.18	0.18	1	4/ 6/01	8:58	Noorbakhsh	8310	5446
Benzo(k)fluoranthene	ND	ug/l	0.17	0.17	1	4/ 6/01	8:58	Noorbakhsh	8310	5446
Chrysene	ND	ug/l	0.15	0.15	1	4/ 6/01	8:58	Noorbakhsh	8310	5446
Dibenzo(a,h)anthracene	ND	ug/l	0.30	0.30	1	4/ 6/01	8:58	Noorbakhsh	8310	5446
Indeno(1,2,3-cd)pyrene	ND	ug/l	0.43	0.43	1	4/ 6/01	8:58	Noorbakhsh	8310	5446
Acenaphthylene	ND	ug/l	2.02	2.00	1	4/ 6/01	8:58	Noorbakhsh	8310	5446
Benzo(g,h,i)perylene	ND	ug/l	0.77	0.76	1	4/ 6/01	8:58	Noorbakhsh	8310	5446
Phenanthrene	ND	ug/l	0.65	0.64	1	4/ 6/01	8:58	Noorbakhsh	8310	5446
1-Methylnapthalene	3.16	ug/l	1.01	1.00	1	4/ 6/01	8:58	Noorbakhsh	8310	5446
2-Methylnaphthalene	2.17	ug/l	1.01	1.00	1	4/ 6/01	8:58	Noorbakhsh	8310	5446
MISCELLANEOUS CHEMISTRY										
pH	6.70	pH Units			1	3/30/01	15:52	K. Stewart	9040/150.1	1801

Sample report continued . . .

TestAmerica
INCORPORATED

ANALYTICAL REPORT

Laboratory Number: 01-A42452
Sample ID: AC10502
Project: 27420

TCLP Results

Analyte	Result	Units	Reg Limit	Matrix Spike Recovery (%)	Date	Method
					4/10/01	

ND = Not detected at the report limit.

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
PAH's	990. ml	1.00 ml	4/ 2/01		D.Yeager	3510/610

Surrogate	% Recovery	Target Range
PAH Surr.. p-terphenyl d14	68.	12. - 152.

= Recovery outside Laboratory historical limits.

Sample for pH analysis received outside method prescribed holding time.

Sample report continued . . .

TestAmerica
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ANALYTICAL REPORT

Laboratory Number: 01-A42452
Sample ID: AC10502
Project: 27420
Page 3

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Report Approved By: _____ Report Date: 4/10/01

Paul E. Lane, Jr., Lab Director
Michael H. Dunn, M.S., Technical Director
Johnny A. Mitchell, Dir. Technical Serv.
Eric S. Smith, Assistant Technical Director
Gail A. Lage, Technical Serv.
Glenn L. Norton, Technical Serv.
Kelly S. Comstock, Technical Serv.
Pamela A. Langford, Technical Serv.

Laboratory Certification Number: HRS-E87358

End of Sample Report.

TestAmerica
INCORPORATED

ANALYTICAL REPORT

ACCURA ANALYTICAL 2656

6017 FINANCIAL DR.
NORCROSS, GA 30071

Lab Number: 01-A42453
Sample ID: AC10503
Sample Type: Water
Site ID:

Date Collected: 3/27/01
Time Collected: 8:00
Date Received: 3/30/01
Time Received: 9:00

Project: 27420
Project Name: CH2M-CCL NAVY PROJECT
Sampler:

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
ORGANIC PARAMETERS										
Naphthalene	ND	ug/l	1.05	1.00	1	4/ 6/01	8:58	Noorbakhsh	8310	5446
Acenaphthene	ND	ug/l	1.05	1.00	1	4/ 6/01	8:58	Noorbakhsh	8310	5446
Anthracene	ND	ug/l	0.69	0.66	1	4/ 6/01	8:58	Noorbakhsh	8310	5446
Fluoranthene	ND	ug/l	0.22	0.21	1	4/ 6/01	8:58	Noorbakhsh	8310	5446
Fluorene	ND	ug/l	0.53	0.50	1	4/ 6/01	8:58	Noorbakhsh	8310	5446
Pyrene	ND	ug/l	0.28	0.27	1	4/ 6/01	8:58	Noorbakhsh	8310	5446
Benzo(a)anthracene	ND	ug/l	0.14	0.13	1	4/ 6/01	8:58	Noorbakhsh	8310	5446
Benzo(a)pyrene	ND	ug/l	0.11	0.10	1	4/ 6/01	8:58	Noorbakhsh	8310	5446
Benzo(b)fluoranthene	ND	ug/l	0.19	0.18	1	4/ 6/01	8:58	Noorbakhsh	8310	5446
Benzo(k)fluoranthene	ND	ug/l	0.18	0.17	1	4/ 6/01	8:58	Noorbakhsh	8310	5446
Chrysene	ND	ug/l	0.16	0.15	1	4/ 6/01	8:58	Noorbakhsh	8310	5446
Dibenzo(a,h)anthracene	ND	ug/l	0.32	0.30	1	4/ 6/01	8:58	Noorbakhsh	8310	5446
Indeno(1,2,3-cd)pyrene	ND	ug/l	0.45	0.43	1	4/ 6/01	8:58	Noorbakhsh	8310	5446
Acenaphthylene	ND	ug/l	2.11	2.00	1	4/ 6/01	8:58	Noorbakhsh	8310	5446
Benzo(g,h,i)perylene	ND	ug/l	0.80	0.76	1	4/ 6/01	8:58	Noorbakhsh	8310	5446
Phenanthrene	ND	ug/l	0.67	0.64	1	4/ 6/01	8:58	Noorbakhsh	8310	5446
1-Methylnapthalene	ND	ug/l	1.05	1.00	1	4/ 6/01	8:58	Noorbakhsh	8310	5446
2-Methylnaphthalene	ND	ug/l	1.05	1.00	1	4/ 6/01	8:58	Noorbakhsh	8310	5446
MISCELLANEOUS CHEMISTRY										
pH	5.40	pH Units			1	3/30/01	15:56	K. Stewart	9040/150.1	1801

Sample report continued . . .

TestAmerica
INCORPORATED

ANALYTICAL REPORT

Laboratory Number: 01-A42453
Sample ID: AC10503
Project: 27420

TCLP Results

Analyte	Result	Units	Reg Limit	Matrix Spike Recovery (%)	Date	Method
					4/10/01	

ND = Not detected at the report limit.

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
PAH's	950. ml	1.00 ml	4/ 2/01		D.Yeager	3510/610

Surrogate	% Recovery	Target Range
PAH Surr., p-terphenyl d14	44.	12. - 152.

= Recovery outside Laboratory historical limits.

Sample for pH analysis received outside method prescribed holding time.

Sample report continued . . .

TestAmerica
INCORPORATED

ANALYTICAL REPORT

Laboratory Number: 01-A42453
Sample ID: AC10503
Project: 27420
Page 3

These results relate only to the items tested.
This report shall not be reproduced except in full and with permission of the laboratory.

Report Approved By: _____ Report Date: 4/10/01

Paul E. Lane, Jr., Lab Director
Michael H. Dunn, M.S., Technical Director
Johnny A. Mitchell, Dir. Technical Serv.
Eric S. Smith, Assistant Technical Director
Gail A. Lage, Technical Serv.
Glenn L. Norton, Technical Serv.
Kelly S. Comstock, Technical Serv.
Pamela A. Langford, Technical Serv.

Laboratory Certification Number: HRS-E87358

End of Sample Report.

TestAmerica INCORPORATED

ANALYTICAL REPORT

ACCURA ANALYTICAL 2656

6017 FINANCIAL DR.
NORCROSS, GA 30071

Project: 27420
Project Name: CH2M-CCL NAVY PROJECT
Sampler:

Lab Number: 01-A42454
Sample ID: AC10504
Sample Type: Water
Site ID:

Date Collected: 3/27/01
Time Collected: 13:30
Date Received: 3/30/01
Time Received: 9:00

Analyte	Result	Units	Report Limit	Quan Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
ORGANIC PARAMETERS										
Naphthalene	ND	ug/l	1.02	1.00	1	4/ 6/01	8:58	Noorbakhsh	8310	5446
Acenaphthene	ND	ug/l	1.02	1.00	1	4/ 6/01	8:58	Noorbakhsh	8310	5446
Anthracene	ND	ug/l	0.67	0.66	1	4/ 6/01	8:58	Noorbakhsh	8310	5446
Fluoranthene	ND	ug/l	0.21	0.21	1	4/ 6/01	8:58	Noorbakhsh	8310	5446
Fluorene	ND	ug/l	0.51	0.50	1	4/ 6/01	8:58	Noorbakhsh	8310	5446
Pyrene	ND	ug/l	0.28	0.27	1	4/ 6/01	8:58	Noorbakhsh	8310	5446
Benzo(a)anthracene	ND	ug/l	0.13	0.13	1	4/ 6/01	8:58	Noorbakhsh	8310	5446
Benzo(a)pyrene	ND	ug/l	0.10	0.10	1	4/ 6/01	8:58	Noorbakhsh	8310	5446
Benzo(b)fluoranthene	ND	ug/l	0.18	0.18	1	4/ 6/01	8:58	Noorbakhsh	8310	5446
Benzo(k)fluoranthene	ND	ug/l	0.17	0.17	1	4/ 6/01	8:58	Noorbakhsh	8310	5446
Chrysene	ND	ug/l	0.15	0.15	1	4/ 6/01	8:58	Noorbakhsh	8310	5446
Dibenzo(a,h)anthracene	ND	ug/l	0.31	0.30	1	4/ 6/01	8:58	Noorbakhsh	8310	5446
Indeno(1,2,3-cd)pyrene	ND	ug/l	0.44	0.43	1	4/ 6/01	8:58	Noorbakhsh	8310	5446
Acenaphthylene	ND	ug/l	2.04	2.00	1	4/ 6/01	8:58	Noorbakhsh	8310	5446
Benzo(g,h,i)perylene	ND	ug/l	0.78	0.76	1	4/ 6/01	8:58	Noorbakhsh	8310	5446
Phenanthrene	ND	ug/l	0.65	0.64	1	4/ 6/01	8:58	Noorbakhsh	8310	5446
1-Methylnaphthalene	ND	ug/l	1.02	1.00	1	4/ 6/01	8:58	Noorbakhsh	8310	5446
2-Methylnaphthalene	ND	ug/l	1.02	1.00	1	4/ 6/01	8:58	Noorbakhsh	8310	5446
MISCELLANEOUS CHEMISTRY										
pH	6.40	pH Units			1	3/30/01	15:56	K. Stewart	9040/150.1	1801

Sample report continued . . .

TestAmerica INCORPORATED

ANALYTICAL REPORT

Laboratory Number: 01-A42454
Sample ID: AC10504
Project: 27420

TCLP Results

Analyte	Result	Units	Reg Limit	Matrix Spike Recovery (%)	Date	Method
					4/10/01	

ND = Not detected at the report limit.

Sample Extraction Data

Parameter	Wt/Vol Extracted	Extract Vol	Date	Time	Analyst	Method
PAH's	980. ml	1.00 ml	4/ 2/01		D.Yeager	3510/610

Surrogate	% Recovery	Target Range
PAH Surr., p-terphenyl d14	66.	12. - 152.

= Recovery outside Laboratory historical limits.

Sample for pH analysis received outside method prescribed holding time.

Sample report continued . . .

TestAmerica
INCORPORATED

ANALYTICAL REPORT

Laboratory Number: 01-A42454
Sample ID: AC10504
Project: 27420

These results relate only to the items tested.
This report shall not be reproduced except in full and with permission of the laboratory.

Report Approved By: Report Date: 4/10/01

Paul E. Lane, Jr., Lab Director
Michael H. Dunn, M.S., Technical Director
Johnny A. Mitchell, Dir. Technical Serv.
Eric S. Smith, Assistant Technical Director
Gail A. Lage, Technical Serv.
Glenn L. Norton, Technical Serv.
Kelly S. Comstock, Technical Serv.
Pamela A. Langford, Technical Serv.

Laboratory Certification Number: HRS-E87358

End of Sample Report.

TestAmerica
INCORPORATED

PROJECT QUALITY CONTROL DATA
Project Number: 27420

Duplicates

Analyte	units	Orig. Val.	Duplicate	RPD	Limit	Q.C. Batch	Sample Dup'd
pH	pH Units	5.40	5.40	0.00	15.	1801	01-A42453

Blank Data

Analyte	Blank Value	Units	Q.C. Batch	Date Analyzed	Time Analyzed
UST PARAMETERS					
Naphthalene	< 0.00100	mg/l	5446	4/ 6/01	8:58
Acenaphthene	< 0.00100	mg/l	5446	4/ 6/01	8:58
Anthracene	< 0.00066	mg/l	5446	4/ 6/01	8:58
Fluoranthene	< 0.00021	mg/l	5446	4/ 6/01	8:58
Fluorene	< 0.00050	mg/l	5446	4/ 6/01	8:58
Pyrene	< 0.00027	mg/l	5446	4/ 6/01	8:58
Benzo(a)anthracene	< 0.00013	mg/l	5446	4/ 6/01	8:58
Benzo(a)pyrene	< 0.00010	mg/l	5446	4/ 6/01	8:58
Benzo(b)fluoranthene	< 0.00018	mg/l	5446	4/ 6/01	8:58
Benzo(k)fluoranthene	< 0.00017	mg/l	5446	4/ 6/01	8:58
Chrysene	< 0.00015	mg/l	5446	4/ 6/01	8:58
Dibenzo(a,h)anthracene	< 0.00030	mg/l	5446	4/ 6/01	8:58
Indeno(1,2,3-cd)pyrene	< 0.00043	mg/l	5446	4/ 6/01	8:58
Acenaphthylene	< 0.00200	mg/l	5446	4/ 6/01	8:58
Benzo(g,h,i)perylene	< 0.00076	mg/l	5446	4/ 6/01	8:58
Phenanthrene	< 0.00064	mg/l	5446	4/ 6/01	8:58
1-Methylnapthalene	< 0.00100	mg/l	5446	4/ 6/01	8:58
2-Methylnaphthalene	< 0.00100	mg/l	5446	4/ 6/01	8:58
PAH Surr., p-terphenyl d14	93.	% Rec	5446	4/ 6/01	8:58

- Value outside Laboratory historical QC limits.

End of Report for Project 231939

TestAmerica INCORPORATED

PROJECT QUALITY CONTROL DATA
Project Number: 27420

Matrix Spike Duplicate

Analyte	units	Orig. Val.	Duplicate	RPD	Limit	Q.C. Batch
Benzo(b)fluoranthene	mg/l	0.00610	0.00720	16.54	59.	5446
Benzo(k)fluoranthene	mg/l	0.00630	0.00700	10.53	59.	5446
Chrysene	mg/l	0.00650	0.00760	15.60	58.	5446
Dibenzo(a,h)anthracene	mg/l	0.00540	0.00600	10.53	64.	5446
Indeno(1,2,3-cd)pyrene	mg/l	0.00700	0.00880	22.78	70.	5446
Benzo(g,h,i)perylene	mg/l	0.00590	0.00660	11.20	69.	5446
Phenanthrene	mg/l	0.0113	0.0135	17.74	65.	5446
1-Methylnapthalene	mg/l	0.0273	0.0325	17.39	31.	5446
2-Methylnaphthalene	mg/l	0.0202	0.0235	15.10	79.	5446

Laboratory Control Data

Analyte	units	Known Val.	Analyzed Val	% Recovery	Target Range	Q.C. Batch
UST PARAMETERS						
Naphthalene	mg/l	0.0100	0.00790	79	20 - 151	5446
Acenaphthene	mg/l	0.0100	0.00910	91	18 - 134	5446
Anthracene	mg/l	0.0100	0.00920	92	38 - 97	5446
Fluoranthene	mg/l	0.0100	0.0104	104	40 - 143	5446
Fluorene	mg/l	0.0100	0.0103	103	33 - 105	5446
Pyrene	mg/l	0.0100	0.0106	106	33 - 129	5446
Benzo(a)anthracene	mg/l	0.0100	0.0105	105	47 - 113	5446
Benzo(a)pyrene	mg/l	0.0100	0.00980	98	34 - 119	5446
Benzo(b)fluoranthene	mg/l	0.0100	0.0107	107	47 - 113	5446
Benzo(k)fluoranthene	mg/l	0.0100	0.0107	107	48 - 118	5446
Chrysene	mg/l	0.0100	0.0103	103	45 - 115	5446
Dibenzo(a,h)anthracene	mg/l	0.0100	0.0106	106	42 - 113	5446
Indeno(1,2,3-cd)pyrene	mg/l	0.0100	0.0102	102	38 - 114	5446
Acenaphthylene	mg/l	0.0100	0.00930	93	20 - 140	5446
Benzo(g,h,i)perylene	mg/l	0.0100	0.0111	111	42 - 130	5446
Phenanthrene	mg/l	0.0100	0.00980	98	37 - 105	5446
1-Methylnapthalene	mg/l	0.0100	0.00810	81	10 - 118	5446
2-Methylnaphthalene	mg/l	0.0100	0.00910	91	10 - 118	5446

Project QC continued . . .

TestAmerica

INCORPORATED

PROJECT QUALITY CONTROL DATA
Project Number: 27420

Matrix Spike Recovery

Analyte	units	Orig. Val.	MS Val	Spike Conc	Recovery	Target Range	Q.C. Batch	Spike Sample
UST ANALYSIS								
Naphthalene	mg/l	0.00274	0.0271	0.0100	244#	10. - 116.	5446	01-A42452
Acenaphthene	mg/l	< 0.00101	0.00680	0.0100	68	10. - 101.	5446	01-A42452
Anthracene	mg/l	< 0.00067	0.00640	0.0100	64	10. - 100.	5446	01-A42452
Fluoranthene	mg/l	< 0.00021	0.00860	0.0100	86	37. - 137.	5446	01-A42452
Fluorene	mg/l	< 0.00051	0.00650	0.0100	65	17. - 96.	5446	01-A42452
Pyrene	mg/l	< 0.00027	0.00750	0.0100	75	26. - 129.	5446	01-A42452
Benzo(a)anthracene	mg/l	< 0.00013	0.00730	0.0100	73	29. - 130.	5446	01-A42452
Benzo(a)pyrene	mg/l	< 0.00010	0.00520	0.0100	52	22. - 128.	5446	01-A42452
Benzo(b)fluoranthene	mg/l	< 0.00018	0.00610	0.0100	61	27. - 130.	5446	01-A42452
Benzo(k)fluoranthene	mg/l	< 0.00017	0.00630	0.0100	63	26. - 134.	5446	01-A42452
Chrysene	mg/l	< 0.00015	0.00650	0.0100	65	25. - 132.	5446	01-A42452
Dibenzo(a,h)anthracene	mg/l	< 0.00030	0.00540	0.0100	54	18. - 136.	5446	01-A42452
Indeno(1,2,3-cd)pyrene	mg/l	< 0.00043	0.00700	0.0100	70	18. - 135.	5446	01-A42452
Benzo(g,h,i)perylene	mg/l	< 0.00077	0.00590	0.0100	59	24. - 135.	5446	01-A42452
Phenanthrene	mg/l	< 0.00065	0.0113	0.0100	113#	17. - 108.	5446	01-A42452
1-Methylnapthalene	mg/l	0.00316	0.0273	0.0100	241#	10. - 122.	5446	01 A42452
2-Methylnaphthalene	mg/l	0.00217	0.0202	0.0100	180#	10. - 109.	5446	01-A42452

Matrix Spike Duplicate

Analyte	units	Orig. Val.	Duplicate	RPD	Limit	Q.C. Batch
UST PARAMETERS						
Naphthalene	mg/l	0.0271	0.0302	10.82	70.	5446
Acenaphthene	mg/l	0.00680	0.00870	24.52	77.	5446
Anthracene	mg/l	0.00640	0.00720	11.76	62.	5446
Fluoranthene	mg/l	0.00860	0.0103	17.99	64.	5446
Fluorene	mg/l	0.00650	0.00720	10.22	61.	5446
Pyrene	mg/l	0.00750	0.00880	15.95	62.	5446
Benzo(a)anthracene	mg/l	0.00730	0.00870	17.50	59.	5446
Benzo(a)pyrene	mg/l	0.00520	0.00590	12.61	62.	5446

Project QC continued . . .

TESTAMERICA, INC.

COOLER RECEIPT FORM

Client: Accura Analytical BC# 231939

Cooler Received On: 3-30-01 And Opened On: 3-30-01 By: Craig Cothron

(Signature)

1. Temperature of Cooler when opened: 1.0 DEGREES CELSIUS
2. Were custody seals on outside of cooler and intact? YES NO
   a. If yes, what kind and where: TAPE
   b. Were the signature and date correct? YES NO
3. Were custody seals on containers intact? YES NO
4. Were custody papers inside cooler? YES NO
5. Were custody papers properly filled out (ink, signed, etc)? YES NO
6. Did you sign the custody papers in the appropriate place? YES NO
7. What kind of packing material was used? Bubblewrap Peanuts Other None
8. Was sufficient ice used (if appropriate)? YES NO
9. Did all bottles arrive in good condition (unbroken)? YES NO
10. Were all bottle labels complete (#, date, signed, pres, etc)? YES NO
11. Did all bottle labels and tags agree with custody papers? YES NO
12. Were correct bottles used for the analysis requested? YES NO
13. If present, was any observable VOA headspace present? YES NO
14. If present, were VOA vials checked for absence of air bubbles and noted if found? YES NO
15. Was sufficient amount of sample sent in each bottle? YES NO
16. Were correct preservatives used? YES NO
17. Was residual chlorine present (if appropriate?) YES NO
18. Corrective action taken, if necessary:
   a. Name of person contacted: SEE ATTACHED FOR RESOLUTION IF NEEDED
   b. Date:

770 449 5477;# 2/30
TEST AMERICA-
4-10- 1 ; 12:44 ;
SENT BY:

DATA DELIVERABLE PACKAGE REQUIREMENTS

Method	Deliverable Requirement	Equivalent EPA Form	CCI Level A	CCI Level B	CCI Level C
Organics by GC or HPLC	Case Narrative (See Note 1)		X	X	X
	Corrective Action Report		X	X	X
	Cross-reference of CCI Sample Numbers, Lab IDs, and analytical QC batches	IV	X	X	X
	Chain-of-Custody Form, Cooler Receipt form		X	X	X
	Data Summary for each blank and sample (See Note 2)	I	X	X	X
	Blank Spike or Lab Control Sample (LCS) results (including concentration spiked, percent recovered, percent recovery acceptance limits) Note: The LCS shall be spiked with all analytes of interest.		X	X	X
	Surrogate Recovery Report (including concentration spiked, percent recovered, and percent recovery acceptance limits)	II	X	X	X
	Matrix Spike/Matrix Spike Duplicate (MS/MSD) Report (including concentration spiked, percent recovered, percent recovery acceptance limits, relative percent difference (RPD), and RPD acceptance limits) Note: MS/MSD must be performed on each batch of 20 Navy samples. Matrix spike QC must contain all the targeted analytes of interest at a concentration not less than 10 times the MDL. When using analytical methods for determination of classes of compounds (e.g. fuels analysis for TPH-gasoline or TPH-diesel), the matrix spike must contain each targeted class of compounds.	III	X	X	X
	Initial Calibration Data for each column (indicate which column was used for quantitation) Note: All analytes must meet calibration acceptance criteria prior to analysis of samples.	VI		X	X
	Second Source Verification (including acceptance limits) Note: Acceptance criteria must be at least as stringent as the criteria applied to calibration checks.			X	X
	Second Source Verification (including acceptance limits) Note: Acceptance criteria must be at least as stringent as the criteria applied to calibration checks.			X	X
	Continuing Calibration Data (indicate which column was used for quantitation) Note: All analytes must meet calibration acceptance criteria prior to analysis of samples	VII		X	X
	Chromatograms for each sample (and reruns), confirmation runs, blank, spike, duplicate, and standards				X
	Raw Quantitation Report (area vs. retention time)				X
	Copies of Sample Preparation Bench Sheets				X
	Copies of Standard Preparation Logs				X
	Copies of Run Logs	VIII			X

ACCURA ANALYTICAL LABORATORY, INC.

Environmental Analytical Services

Metals Checklist

Project #: 27420 **Instrument Used:** Trace ICAP/ICAP/GFAA/FIMS Hg

Analyst Questions

1. Is the Blank <1/2 RDL? Yes If not, has the RDL been raised or the samples reanalyzed? _____
2. Are the LCS/LCSD within limits? Yes If not, why, or are the samples being reanalyzed? _____
3. Duplicate AAL sample number 10502
   Is the RPD acceptable? Yes If not, what is the reason? _____
4. MS/MSD AAL sample number 10502
   Are the recoveries acceptable? Yes If not, what is the reason? _____
5. Sample numbers requiring dilution? _____
   Reason for dilution. _____
6. Are all special requirements on project sheet completed? _____ If unable to complete, has the project manager been notified? _____
7. Any additional comments. MS/MSD & LCS %Rec. within on Davy QC table.

Reviewer Questions

8. Is the ICV within ± 10% for 6010B, or 5% for 200.7? ✓
9. For Hg and GFAA, is the curve acceptable, (>0.995 correlation coefficient)? —
10. Verified the correct date & time; sample results with sigfigs in LIMS ✓
11. Verified the RDL and its sigfigs according to dilution ✓

Analyst entering results in Labworks. hm.g Date: 4/5/01

Peer Reviewer: _____ Date: 4/5/01

Peer Reviewer is responsible for reviewing all above questions.

#	Sample Name	File	Method	Date	Time	OpID	Type	Mode
1	STD1-Blank	APR0401	WATERS2	04/04/01	09:16		X	IR
2	STD8	APR0401	WATERS2	04/04/01	09:22		X	IR
3	STD3	APR0401	WATERS2	04/04/01	09:26		X	IR
4	STD4	APR0401	WATERS2	04/04/01	09:30		X	IR
5	STD2	APR0401	WATERS2	04/04/01	09:34		X	IR
6	ICV 2	APR0401	WATERS2	04/04/01	09:38	MP	Q	CONC
7	ICV 1	APR0401	WATERS2	04/04/01	09:44	MP	Q	CONC
8	ICB	APR0401	WATERS2	04/04/01	09:50	MP	B	CONC
9	ICS A	APR0401	WATERS2	04/04/01	09:56	MP	Q	CONC
10	ICS AB	APR0401	WATERS2	04/04/01	10:02	MP	Q	CONC
11	SS I	APR0401	WATERS2	04/04/01	10:15	MP	Q	CONC
12	SS I LOW	APR0401	WATERS2	04/04/01	10:20	MP	Q	CONC
13	QMW0402011 0950	APR0401	WATERS2	04/04/01	11:01	MP	S	CONC
14	QMW0402012 LCS	APR0401	WATERS2	04/04/01	11:07	MP	S	CONC
15	QMW0402013 LCSD	APR0401	WATERS2	04/04/01	11:13	MP	S	CONC
16	10497	APR0401	WATERS2	04/04/01	11:18	MP	S	CONC
17	10498	APR0401	WATERS2	04/04/01	11:24	MP	S	CONC
18	10499	APR0401	WATERS2	04/04/01	11:30	MP	S	CONC
19	10500	APR0401	WATERS2	04/04/01	11:37	MP	S	CONC
20	10501	APR0401	WATERS2	04/04/01	11:42	MP	S	CONC
21	10502	APR0401	WATERS2	04/04/01	11:48	MP	S	CONC
22	ICV 2	APR0401	WATERS2	04/04/01	11:55	MP	Q	CONC
23	ICB	APR0401	WATERS2	04/04/01	12:01	MP	B	CONC
24	10503	APR0401	WATERS2	04/04/01	12:07	MP	S	CONC
25	10504	APR0401	WATERS2	04/04/01	12:13	MP	S	CONC
26	10502 D	APR0401	WATERS2	04/04/01	12:19	MP	S	CONC
27	10502 MS	APR0401	WATERS2	04/04/01	12:24	MP	S	CONC
28	10502 MSD	APR0401	WATERS2	04/04/01	12:30	MP	S	CONC
29	10497 1:4SD	APR0401	WATERS2	04/04/01	12:36	MP	S	CONC
30	10497 1:1MSA	APR0401	WATERS2	04/04/01	12:41	MP	S	CONC
31	ICV 2	APR0401	WATERS2	04/04/01	12:48	MP	Q	CONC
32	ICV 1	APR0401	WATERS2	04/04/01	13:00	MP	Q	CONC
33	ICB	APR0401	WATERS2	04/04/01	13:10	MP	B	CONC
34	SS I	APR0401	WATERS2	04/04/01	13:16	MP	Q	CONC
35	10261 DISS	APR0401	WATERS2	04/04/01	13:23	MP	S	CONC
36	10261 D DISS	APR0401	WATERS2	04/04/01	13:28	MP	S	CONC
37	ICV 2	APR0401	WATERS2	04/04/01	13:39	MP	Q	CONC
38	ICB	APR0401	WATERS2	04/04/01	13:46	MP	B	CONC
39	ICV 2	APR0401	WATERS2	04/04/01	14:06	MP	Q	CONC
40	ICB	APR0401	WATERS2	04/04/01	14:12	MP	B	CONC
41	QMW0403017 1200	APR0401	WATERS2	04/04/01	14:16	MP	S	CONC
42	QMW0403018 LCS	APR0401	WATERS2	04/04/01	14:20	MP	S	CONC
43	QMW0403019 LCSD	APR0401	WATERS2	04/04/01	14:24	MP	S	CONC
44	10393	APR0401	WATERS2	04/04/01	14:28	MP	S	CONC
45	10253	APR0401	WATERS2	04/04/01	14:32	MP	S	CONC
46	10255	APR0401	WATERS2	04/04/01	14:36	MP	S	CONC
47	10257	APR0401	WATERS2	04/04/01	14:41	MP	S	CONC
48	10259	APR0401	WATERS2	04/04/01	14:45	MP	S	CONC
49	10261	APR0401	WATERS2	04/04/01	14:49	MP	S	CONC
50	10507	APR0401	WATERS2	04/04/01	14:53	MP	S	CONC
51	ICV 2	APR0401	WATERS2	04/04/01	14:58	MP	Q	CONC
52	ICB	APR0401	WATERS2	04/04/01	15:03	MP	B	CONC
53	10524	APR0401	WATERS2	04/04/01	15:07	MP	S	CONC

Prep (PB) 27420

4-9-01

#	Sample Name	File	Method	Date	Time	OpID	Type	Mode
54	10398	APR0401	WATERS2	04/04/01	15:11	MP	S	CONC
55	09101	APR0401	WATERS2	04/04/01	15:15	MP	S	CONC
56	09107	APR0401	WATERS2	04/04/01	15:19	MP	S	CONC
57	09091	APR0401	WATERS2	04/04/01	15:23	MP	S	CONC
58	10261 D	APR0401	WATERS2	04/04/01	15:28	MP	S	CONC
59	10261 MS	APR0401	WATERS2	04/04/01	15:32	MP	S	CONC
60	10261 MSD	APR0401	WATERS2	04/04/01	15:36	MP	S	CONC
61	ICV 2	APR0401	WATERS2	04/04/01	15:45	MP	Q	CONC
62	ICV 1	APR0401	WATERS2	04/04/01	15:54	MP	Q	CONC
63	ICB	APR0401	WATERS2	04/04/01	16:02	MP	B	CONC
64	SS I	APR0401	WATERS2	04/04/01	16:08	MP	Q	CONC
65	SS I LOW	APR0401	WATERS2	04/04/01	16:14	MP	Q	CONC
66	ICS A	APR0401	WATERS2	04/04/01	16:20	MP	Q	CONC
67	ICS AB	APR0401	WATERS2	04/04/01	16:25	MP	Q	CONC

Ung 4/5/01

#	Element	STD'lank	STD8	STD3	STD4	STD2	ICV 2
1	Ag3280	-.00119	.63591				1.034
2	Al3082	.01278		.07075			1.007
3	As1890	-.00204			.27825		1.012
4	Ba4934	.00003				1.94364	1.008
5	Be3130	-.00238		1.33362			1.020
6	Ca3179	.00107				.05196	1.014
7	Cd2265	-.00051				.92666	1.007
8	Co2286	-.00096				.69366	1.006
9	Cr2677	.00032			.50767		1.015
10	Cu3247	.00737				.50095	.9934
11	Fe2714	.0004		.02555			Q1.146
12	K_7664	.01701				1.46109	9.493
13	Mg2790	-.00003				.04092	.9554
14	Mn2576	.00018				.60075	1.002
15	Ni2316	-.00135		.44962			1.023
16	2203/1	.00035				2.00627	.9975
17	2203/2	.00058				1.87088	.9947
18	1960/1	-.01881			1.08609		1.007
19	1960/2	.00595			.47361		.9947
20	Sb2068	.00113		.33417			1.017
21	Sn1899	-.00031		.23005			1.015
22	Tl1908	-.00057		.10122			1.024
23	V_2924	-.00002			.01132		1.005
24	Zn2062	-.0001				.15358	1.009
25	Pb2203						.9968
26	Se1960						1.003

#	Element	ICV 1	ICB	ICS A	ICS AB	SS I	SS I LOW
1	Ag3280	Q.2191	-.0003	-.0002	.3246	.0011	.0002
2	Al3082	Q.2194	.0004	55.16	55.07	Q.0759	.0481
3	As1890	.2081	-.0084	Q-.0109	1.034	.0395	.0119
4	Ba4934	Q.2136	.0001	.0003	.3041	.0421	Q.0130
5	Be3130	Q.2140	.0001	-.0000	.1050	.0010	.0003
6	Ca3179	Q.2500	.0006	52.12	51.61	.0300	.0047
7	Cd2265	.2105	.0001	.0043	.3058	.0009	.0001
8	Co2286	Q.2114	.0002	.0008	.3049	.0108	Q.0043
9	Cr2677	Q.2130	-.0005	-.0006	.3052	.0040	Q.0004
10	Cu3247	.2083	.0001	Q.0350	.3474	.0050	.0003
11	Fe2714	Q.2985	-.0020	52.80	52.28	Q.1355	.0197
12	K_7664	Q1.834	-.0088	.1942	Q31.20	.0320	-.0076
13	Mg2790	.1972	-.0012	52.46	51.88	.0042	-.0016
14	Mn2576	Q.2115	.0001	.0014	.2041	.0108	Q.0033
15	Ni2316	Q.2131	-.0010	.0005	.3053	.0103	.0025
16	2203/1	.2094	.0017	.0210	1.061	.0113	.0036
17	2203/2	.2089	-.0022	.0006	1.039	.0091	.0043
18	1960/1	.2094	.0037	-.0020	.5288	.0423	.0079
19	1960/2	.2130	-.0026	.0081	.5245	.0419	.0129
20	Sb2068	Q.2166	.0020	.0082	1.056	.0099	.0054
21	Sn1899	Q.2199	-.0032	.0011	1.066	-.0025	-.0029
22	Tl1908	.2095	-.0024	Q.0488	1.157	.0420	Q.0151
23	V_2924	.2110	-.0028	.0014	.3078	.0082	.0028

#	Element	ICV 1	ICB	ICS A	ICS AB	SS I	SS I LOW
24	Zn2062	Q.2113	.0003	.0069	.3022	.0112	.0032
25	Pb2203	.2095	.0006	.0145	1.054	.0108	Q.0040
26	Se1960	.2108	.0018	.0012	.5273	.0424	.0097

#	Element	QMW'0950	QMW' LCS	QMW'LCSD	10497	10498	10499
		11:01			11:18	11:24	11:30
1	Ag3280	-.0001	.9495	1.046	-.0003	.0001	-.0005
2	Al3082	.1351	1.006	1.086	16.23	8.841	10.52
3	As1890	-.0124	.9268	1.045	.0017	-.0049	.0008
4	Ba4934	.0010	.9197	.9760	.1141	.1654	.0953
5	Be3130	-.0002	.8826	1.043	.0033	.0007	.0074
6	Ca3179	.0446	.9293	1.040	126.5	128.1	106.0
7	Cd2265	-.0012	.8864	1.012	.0004	.0002	.0036
8	Co2286	-.0007	.8912	1.009	.0010	.0009	.0428
9	Cr2677	.0005	.8853	.9953	.0168	.0072	.0228
10	Cu3247	-.0005	.9309	.9689	.0217	.0191	.0252
11	Fe2714	.1427	1.006	1.020	4.766	1.878	34.44
12	K_7664	.0345	8.561	9.135	6.657	8.382	4.471
13	Mg2790	.0056	.8641	.9603	7.146	8.941	16.49
14	Mn2576	.0010	.8938	1.002	.0855	.1151	.1458
15	Ni2316	-.0026	.8892	1.004	.0040	.0014	.0495
16	2203/1	.0038	.9152	1.028	.0509	.0164	.0477
17	2203/2	.0018	.9111	1.036	.0452	.0123	.0441
18	1960/1	-.0157	.9166	1.175	.0041	.0076	.0096
19	1960/2	.0125	.9390	1.166	.0001	.0012	.0007
20	Sb2068	.0019	.9160	.9275	.0024	.0030	.0046
21	Sn1899	-.0002	1.811	1.572	.0036	.0018	.0007
22	Tl1908	-.0059	.9561	1.072	.0039	-.0037	.0278
23	V_2924	.0026	.8958	.9740	.0345	.0263	.1709
24	Zn2062	.0056	.8458	1.029	.0343	.0463	.0475
25	Pb2203	.0034	.9141	1.031	.0493	.0153	.0467
26	Se1960	-.0061	.9242	1.172	.0029	.0056	.0068

#	Element	10500	10501	10502	ICV 2	ICB	10503
		11:37	11:42	11:48			12:07
1	Ag3280	-.0011	-.0007	-.0006	1.041	-.0004	-.0006
2	Al3082	55.06	11.62	19.09	Q1.105	.0394	18.30
3	As1890	.0053	-.0054	-.0074	1.031	-.0084	-.0019
4	Ba4934	.3025	.3154	.3350	.9916	.0003	.4449
5	Be3130	.0105	.0061	.0015	1.047	.0002	.0110
6	Ca3179	47.77	35.38	223.9	Q1.076	.0077	51.36
7	Cd2265	.0018	.0042	.0041	1.023	.0000	.0075
8	Co2286	.0035	.0086	-.0005	1.023	.0012	.0110
9	Cr2677	.0888	.0112	.0270	1.026	-.0003	.0184
10	Cu3247	.0278	.3122	.0424	.9858	-.0003	.4717
11	Fe2714	27.86	56.04	63.71	Q1.162	.0040	91.45
12	K_7664	2.432	.9968	4.052	Q8.678	.0223	1.446
13	Mg2790	4.839	5.798	11.00	.9475	.0005	8.305
14	Mn2576	.2322	.0578	1.196	1.016	.0003	.0875
15	Ni2316	.0235	.0230	.0045	1.030	-.0005	.0369
16	2203/1	.0742	.0515	.0378	1.027	.0005	.0787
17	2203/2	.0598	.0464	.0191	1.013	-.0006	.0684

#	Element	10500	10501	10502	ICV 2	ICB	10503
		11:37	11:42	11:48			12:07
18	1960/1	.0151	-.0011	.0072	1.021	.0042	.0059
19	1960/2	.0083	.0055	-.0029	1.018	-.0019	-.0027
20	Sb2068	.0065	.0040	.0054	1.017	.0020	.0054
21	Sn1899	.0017	-.0002	.0020	1.036	.0001	.0271
22	Tl1908	.0193	.0425	.0519	1.051	-.0049	.0734
23	V_2924	.1730	.1114	.0299	1.007	-.0001	.1818
24	Zn2062	.0886	.4140	.0168	1.030	.0004	.5449
25	Pb2203	.0696	.0500	.0318	1.023	.0004	.0755
26	Se1960	.0127	.0012	.0039	1.020	.0023	.0031

#	Element	10504	10502 D	10502 MS	105' MSD	104':4SD	104'1MSA
		12:13					
1	Ag3280	-.0005	-.0003	1.005	1.089	-.0019	.2175
2	Al3082	.0450	18.53	30.57	32.22	15.13	17.47
3	As1890	-.0058	-.0073	1.035	1.071	.0037	.2013
4	Ba4934	.0004	.3237	1.290	1.327	.1102	.3286
5	Be3130	.0001	.0015	1.019	1.058	.0061	.2212
6	Ca3179	.0786	220.3	205.9	204.1	131.9	146.4
7	Cd2265	-.0001	.0043	1.008	1.044	.0034	.2085
8	Co2286	.0007	.0004	1.011	1.052	.0083	.2129
9	Cr2677	-.0002	.0264	1.034	1.074	.0127	.2311
10	Cu3247	-.0013	.0416	1.096	1.138	.0078	.2340
11	Fe2714	.0455	62.33	60.17	60.03	4.847	5.704
12	K_7664	-.0105	3.848	16.03	15.77	4.834	8.253
13	Mg2790	.0041	10.62	11.10	11.08	6.874	7.922
14	Mn2576	.0006	1.169	2.082	2.110	.0906	.3060
15	Ni2316	-.0005	.0048	1.022	1.068	.0132	.2188
16	2203/1	.0025	.0314	1.073	1.111	.0599	.2720
17	2203/2	.0027	.0224	1.055	1.093	.0470	.2620
18	1960/1	-.0039	-.0004	1.041	1.064	.0910	.2166
19	1960/2	-.0024	.0032	1.033	1.067	-.0587	.2052
20	Sb2068	-.0001	.0059	.9007	.9315	-.0047	.2174
21	Sn1899	.0028	.0036	1.482	2.208	.0113	.2228
22	Tl1908	-.0053	.0564	1.148	1.176	.0441	.2278
23	V_2924	.0014	.0283	1.032	1.068	.0395	.2469
24	Zn2062	.0057	.0335	1.010 104	1.047 107	.0862	.2494
25	Pb2203	.0028	.0286	1.067	1.105	.0566	.2690
26	Se1960	-.0032	.0009	1.038	1.065	.0419	.2130

#	Element	ICV 2	ICV 1	ICB	SS I	102'DISS	102'DISS
1	Ag3280	1.043	Q.2113	-.0003	Q.0012	-.0003	-.0007
2	Al3082	Q1.105	Q.2779	.0228	Q.1032	.4801	.4739
3	As1890	1.031	.2087	-.0071	.0370	-.0111	-.0086
4	Ba4934	.9952	.2035	.0002	.0401	.1541	.1546
5	Be3130	1.054	Q.2128	.0003	Q.0013	.0029	.0028
6	Ca3179	Q1.061	Q.2488	-.0010	.0344	23.73	24.01
7	Cd2265	1.028	.2074	.0000	Q.0013	.0005	.0003
8	Co2286	1.027	.2082	.0010	.0113	.0524	.0522
9	Cr2677	1.031	.2082	-.0003	.0035	.0006	.0005
10	Cu3247	.9878	.1975	-.0017	Q.0020	-.0006	-.0004
11	Fe2714	Q1.163	Q.2907	.0004	Q.1371	3.277	3.304

#	Element	ICV 2	ICV 1	ICB	SS I	102'DISS	102'DISS
12	K_7664	Q8.631	Q1.602	-.0128	-.0062	2.537	2.561
13	Mg2790	.9471	.1925	.0008	.0111	19.70	19.79
14	Mn2576	1.019	.2070	.0001	.0106	3.180	3.185
15	Ni2316	1.037	.2088	-.0010	.0097	.0091	.0091
16	2203/1	1.033	.2079	-.0023	.0090	.0056	.0058
17	2203/2	1.017	.2059	.0017	.0107	.0034	.0034
18	1960/1	1.026	.2088	.0018	.0448	.0417	.0369
19	1960/2	1.027	.2133	-.0014	.0368	.0048	.0039
20	Sb2068	1.014	.2096	.0007	.0103	-.0045	-.0032
21	Sn1899	1.039	.2099	-.0024	-.0012	.0431	.0420
22	Tl1908	1.049	.2098	.0010	.0402	-.0274	-.0288
23	V_2924	1.009	.2036	.0015	.0095	.0061	.0072
24	Zn2062	1.034	Q.2117	.0020	.0111	.0514	.0723
25	Pb2203	1.028	.2075	-.0007	.0098	.0051	.0052
26	Se1960	1.027	.2105	.0009	.0423	.0296	.0260

#	Element	ICV 2	ICB	ICV 2	ICB	QMW'1200	QMW' LCS
1	Ag3280	Q1.086	.0000				
2	Al3082	Q1.157	.0633	Q1.155	.0991	.1792	2.885
3	As1890	Q1.068	-.0084				
4	Ba4934	1.042	.0002				
5	Be3130	Q1.084	.0001				
6	Ca3179	Q1.062	-.0051	1.020	-.0082	.2243	2.815
7	Cd2265	1.044	.0001				
8	Co2286	1.053	.0009				
9	Cr2677	1.054	-.0001				
10	Cu3247	1.046	-.0017				
11	Fe2714	Q1.172	-.0034	1.148	.0004	.0930	3.038
12	K_7664	Q8.802	-.0028				
13	Mg2790	.9861	.0023	.9293	.0030	.0055	2.499
14	Mn2576	1.049	.0001				
15	Ni2316	Q1.059	.0004				
16	2203/1	1.058	.0016				
17	2203/2	1.058	.0003				
18	1960/1	1.055	.0017				
19	1960/2	1.082	-.0009				
20	Sb2068	1.051	.0017				
21	Sn1899	Q1.068	-.0022				
22	Tl1908	Q1.088	-.0038	1.076	-.0012	-.0066	2.806
23	V_2924	1.040	-.0014				
24	Zn2062	1.036	-.0001				
25	Pb2203	Q1.058	.0014				
26	Se1960	Q1.064	.0010				

#	Element	QMW'LCSD	10393	10253	10255	10257	10259
1	Ag3280						
2	Al3082	2.769	.8523	.7430	2.376	1.218	.6428
3	As1890						
4	Ba4934						
5	Be3130						

#	Element	QMW'LCSD	10393	10253	10255	10257	10259
6	Ca3179	2.686	33.08	1.354	10.44	17.72	12.35
7	Cd2265						
8	Co2286						
9	Cr2677						
10	Cu3247						
11	Fe2714	2.898	5.277	.3733	1.588	1.786	27.43
12	K_7664						
13	Mg2790	2.389	11.50	2.284	4.054	5.706	11.37
14	Mn2576						
15	Ni2316						
16	2203/1						
17	2203/2						
18	1960/1						
19	1960/2						
20	Sb2068						
21	Sn1899						
22	Tl1908	2.685	.0141	-.0052	-.0046	-.0011	.0282
23	V_2924						
24	Zn2062						
25	Pb2203						
26	Se1960						

#	Element	10261	10507	ICV 2	ICB	10524	10398
1	Ag3280						
2	Al3082	1.265	6.444	Q1.131	.1702	.5774	.6751
3	As1890						
4	Ba4934						
5	Be3130						
6	Ca3179	43.75	50.96	1.018	-.0089	108.6	31.73
7	Cd2265						
8	Co2286						
9	Cr2677						
10	Cu3247						
11	Fe2714	7.533	9.502	Q1.134	-.0010	1.053	4.840
12	K_7664						
13	Mg2790	36.40	46.22	Q.9159	.0038	89.52	10.75
14	Mn2576						
15	Ni2316						
16	2203/1						
17	2203/2						
18	1960/1						
19	1960/2						
20	Sb2068						
21	Sn1899						
22	Tl1908	.0065	.0053	Q1.065	.0033	-.0045	.0003
23	V_2924						
24	Zn2062						
25	Pb2203						
26	Se1960						

#	Element	09101	09107	09091	10261 D	10261 MS	102' MSD
1	Ag3280						
2	Al3082	.6018	1.393	.3591	1.229	3.681	3.544
3	As1890						
4	Ba4934						
5	Be3130						
6	Ca3179	16.83	8.851	7.479	42.55	46.04	45.23
7	Cd2265						
8	Co2286						
9	Cr2677						
10	Cu3247						
11	Fe2714	.2472	.7360	5.548	7.223	9.677	9.531
12	K_7664						
13	Mg2790	3.945	2.350	1.835	34.36	37.44	36.56
14	Mn2576						
15	Ni2316						
16	2203/1						
17	2203/2						
18	1960/1						
19	1960/2						
20	Sb2068						
21	Sn1899						
22	Tl1908	.0093	-.0023	.0020	.0048	2.131	2.037
23	V_2924						
24	Zn2062						
25	Pb2203						
26	Se1960						

#	Element	ICV 2	ICV 1	ICB	SS I	SS I LOW	ICS A
1	Ag3280	Q1.070	Q.2152	.0001	Q.0012	.0007	-.0000
2	Al3082	Q1.198	Q.4289	.2624	Q.2789	.2244	52.42
3	As1890	1.041	.2073	-.0071	.0359	.0114	-.0091
4	Ba4934	.9671	.1976	.0002	.0390	Q.0121	.0003
5	Be3130	Q1.083	Q.2174	.0003	Q.0014	.0006	.0003
6	Ca3179	1.053	Q.2293	-.0179	.0216	-.0083	54.10
7	Cd2265	.9982	.2005	-.0004	.0011	.0000	.0026
8	Co2286	1.036	.2091	.0013	.0112	Q.0046	.0018
9	Cr2677	1.020	.2045	.0002	.0039	.0012	.0005
10	Cu3247	1.009	.1968	-.0076	Q-.0034	-.0067	Q.0267
11	Fe2714	Q1.155	Q.2632	-.0070	Q.1306	.0089	54.13
12	K_7664	Q9.188	Q1.734	.0226	-.0040	.0049	Q.2286
13	Mg2790	Q.9166	Q.1836	.0038	.0126	.0052	50.03
14	Mn2576	1.031	.2072	-.0000	.0107	Q.0032	.0014
15	Ni2316	.9874	.1991	.0003	.0106	Q.0032	.0010
16	2203/1	1.067	.2157	.0024	.0132	.0054	.0221
17	2203/2	1.054	.2101	.0006	.0111	.0041	-.0020
18	1960/1	1.001	.2054	.0000	.0441	.0195	.0096
19	1960/2	1.020	.2022	.0006	.0373	.0056	.0051
20	Sb2068	.9729	.1978	.0034	.0107	.0072	.0098
21	Sn1899	Q1.061	Q.2130	-.0008	.0003	-.0006	-.0010
22	Tl1908	Q1.086	Q.2148	-.0006	.0395	Q.0132	Q.0517
23	V_2924	.9991	.2010	.0013	.0108	Q.0041	.0041

#	Element	ICV 2	ICV 1	ICB	SS I	SS I LOW	ICS A
24	Zn2062	1.008	.2013	.0005	Q.0121	.0038	.0071
25	Pb2203	Q1.063	Q.2141	.0020	Q.0127	Q.0052	.0143
26	Se1960	1.007	.2045	.0004	.0420	Q.0151	.0080

#	Element	ICS AB
1	Ag3280	.3276
2	Al3082	52.28
3	As1890	1.056
4	Ba4934	.2889
5	Be3130	.1100
6	Ca3179	53.39
7	Cd2265	.3010
8	Co2286	.3087
9	Cr2677	.3039
10	Cu3247	.3424
11	Fe2714	53.41
12	K_7664	Q30.85
13	Mg2790	49.37
14	Mn2576	.2063
15	Ni2316	.2958
16	2203/1	1.099
17	2203/2	1.077
18	1960/1	.5205
19	1960/2	.5241
20	Sb2068	1.010
21	Sn1899	1.095
22	Tl1908	1.174
23	V_2924	.3039
24	Zn2062	.3004
25	Pb2203	1.092
26	Se1960	.5216

ACCURA ANALYTICAL LABORATORIES

EXTRACTION LOG

ANALYSIS: DRO / PAH (FL PRO)

DATE/TIME: 4/1/01 900

MATRIX: WATER

ANALYST: KC

EXT. METHOD: 3510 / (3520)

INSTRUMENT: GC-FID / GC-MSD

AAL I.D.	SAMPLE VOLUME	pH	SURR 1.0mL	SPIKE 1.0mL	FINAL VOLUME	COMMENTS
QFW0401011	1L		KC		1.0mL	
QFW0401012	1L			KC		
MS 10502	1L					
MSD 10502	1L					
10497	1L					
10498	1L					
10499	1L					
10500	1L					
10501	1L					
10502	1L					
10503	1L					
10504	1L					

KC 4/2/01

START TIME: 1300 **STOP TIME:** 715 **SOLVENT ID #:** EX01194

SURROGATE I.D.: FL01E058 **CONC.:** 1300 ppm **INITAL:** KC

SURROGATE I.D.: D01E057 **CONC.:** 50 ppm **INITAL:** KC

SPIKE I.D.: FL01E059 **CONC.:** 250 ppm **INITIAL:** KS

SPIKE I.D.: — **CONC.:** — **INITIAL:** —

EXTRACT STORAGE: REFRIG.# 5, **BOX #:** — **RapidVap TEMP.:** 45°C

SVO GC DATA CHECKLIST
FL-PRO

PROJECT #: 27420	METHOD: FL-PRO
MATRIX: Water	

INITIAL ANALYST ASSESSMENT

Are all standards within expiration dates for both stock and serial standards?	(Y)	N	NA
Are continuing calibrations compliant with method requirements?	(Y)	N	NA
Is blank result less than 1/2 RDL for analytes of interest?	(Y)	N	NA
Are all spike recoveries acceptable for the LCS (/LCSD)?	(Y)	N	NA
Are all surrogate standard recoveries acceptable (blank, LCS, samples)?	(Y)	N	NA
If blank, LCS or surrogate results are unacceptable, was re-extraction performed to confirm?	Y	N	(NA)
Are all requested analytes below the upper calibration limit?	(Y)	N	NA
Were sample analyses performed within holding times?	(Y)	N	NA
Were analyses performed such that carryover was not a problem?	(Y)	N	NA
Are multicomponent patterns resolvable?	(Y)	N	NA
Are quantitations based on the latest acceptable initial calibration?	(Y)	N	NA
Are all mistakes single lined, initialled, and dated?	(Y)	N	NA
Are all applicable runlog and extraction sheets signed, dated, and included?	(Y)	N	NA
Are all analytes to be reported indicated as such on the raw data?	(Y)	N	NA
Was analysis completed as instructed on the Log-in Record?	(Y)	N	NA
Has all data been entered into LIMS?	(Y)	N	NA

04.05.01

Analyst: BF RL	
Date: 04.05.01	Time: 12:50

PEER REVIEW

Are continuing calibrations compliant with method requirements?	(Y)	N	NA
Are all blank and QC results acceptable?	(Y)	N	NA
Are all surrogate standard recoveries acceptable (blank, LCS, samples)?	Y	(N)	NA
Are all analyte calculations correct and reported in the proper units?	(Y)	N	NA
Were sample analyses performed within holding times?	(Y)	N	NA
Are quantitations based on the latest acceptable initial calibration?	(Y)	N	NA
Is the runlog completely filled out (including review signature/date)?	(Y)	N	NA
Was analysis completed as instructed on the Log-in Record?	(Y)	N	NA
Have all LIMS entries been checked for accuracy?	(Y)	N	NA

Reviewer: YCuL	
Date: 04/06/01	Time: 13:55

SVO GC CALIBRATION CHECKLIST
SW-846-8000

DATE / INSTRUMENT: 3/22/01 ORO-B	METHOD: 8000
MATRIX: FL-PROTCAL (MeCl2)	

Are all standards within expiration dates for both stock and serial standards?	(Y)	N	NA
Is the Initial Calibration compliant with the method specifications?	(Y)	N	NA
Were daily retention time windows updated?	(Y)	N	NA
Is the runlog completely filled out (including review signature/date)?	(Y)	N	NA
Are all mistakes single lined, initialled, and dated?	(Y)	N	NA

Analyst: RL	Reviewer: YGR
Date: 03/26/01 Time: 16:05	Date: 03/27/01 Time: 13:10

INITIAL CALIBRATION
5 POINT DRO

DATE:	3/22/01		
METHOD:	FL-PRO		
INSTRUMENT:	DRO-B ; FRONT COLUMN		
ANALYST:	RL		
ICAL ID:	PRO0322		
CONCENTRATION (PPM)		**AREA**	**Rf**
850		55009551	64717.1
2550		148731650	58326.1
4250		228292638	53715.9
5950		304533890	51182.2
7692		359979107	46799.2
AVERAGE Rf:		54948.1	
% RSD:		12.5	

Sequence Date: 03.22.01
Analyst Initials: RL
Run Method: PRO315
Quant Method: PRO0322

	Sample	Blank/LCS
Water OTP/C(39) Limits	82-142 / 42-193	82-142 / 42-193
Soil OTP/C(39) Limits	62-109 / 60-118	62-109 / 62-118

Compound: FL-PRO
Date: 03.22.01

Vial Position	AAL Sample I.D. #	Extraction Date	Matrix	Dilution Factor	OTP/C(39) Recovery	Spike Recovery	AAL Std. I.D. #	Status	Comments
1	Solvent Blank	NA	Mecla	1X	NA / NA			✓	
2	850PHSPROICAL		Standard		78 / 76		015V052		
3 (RL 03.22)	4250PHSPROICAL				74 / 78		53		
4	4250PHSPROICAL				79 / 84		54		
5	5950PHSPROICAL				80 / 80		55		
6	7692PHSPROICAL				65 / 71		56		
7	4250PHSPROICV				101 / 101	99	015V058	RL 03.22.01	
8	Solvent Blank		Mecla		NA / NA				

RL 03.22.01

Initials / Date: RL 03.22.01

059

Runlog_DRO-B.xls

ACCURA ANALYTICAL LABORATORY, INC.

Environmental Analytical Services

Standard Name: FL-PRO CCV
Lab Standard ID#: 015V058
Prepared By: RL

Date Made: 03.22.01
Expire Date: 09.22.01
Matrix: MeCl2

Standard	Lot/Lab ID#	Conc.	Amount Used	Final Conc.
FL-PRO Standard	EX01187-9	500ppm	500ul	4250PPB
C(39)	501A055	3,000	100ul	300ppm
OTP	EX00151-1	10,000	5ul	50ppm
MeCl2	EX01185	—	395ul	-
			Diluted to 1,000ul	
		RL		
		03.22.01		

Standard Name: PAH Intermediate
Lab Standard ID#: 015V059
Prepared By: RL

Date Made: 03.22.01
Expire Date: 09.22.01
Matrix: MeCl2

Standard	Lot/Lab ID#	Conc.	Amount Used	Final Conc.
PAH standard	501A021	1,000ppm	1ml=1,000ul	200ppm
1methylnaphalene	501A023	2,000ppm	500ul	200ppm
MeCl2	EX00185	—	3,500ul	—
		RL		
		03.22.01		

ACCURA ANALYTICAL LABORATORY, INC.

Environmental Analytical Services

Standard Name: FL-PRO ICAL
Lab Standard ID#: 015V052-056
Prepared By: RL

Date Made: 03.22.01
Expire Date: 09.22.01
Matrix: $MeCl_2$

Standard	Lot/Lab ID#	Conc.	Amount Used	Final Conc.
FL-PRO Standard	EX01187-9,-7,-8	500 ppm	100 ul	850 PHS
			300 ul	2550
			500 ul	4250
			700 ul	5950
			1000 ul	7692
OTP	EX00151-1	10,000 RL 03.22.01	~~50 ul / 100~~ 5.0 ul	50 ppm
C(39) PRO	SO1A055	3,000 RL 03.22.01	~~50 ul~~ 100 ul	300 ppm
$MeCl_2$	EX00185	-	Dilute to 1000 ul	-

OTP + C(39) were added to each standard then standard diluted to 1000 ul with $MeCl_2$. For last point the total volume is 1,105 ul leading to a PHS of 7692 not 8500. Also because of volume change the OTP = 45.2 and C(39) = 271.5. These values have been changed in curve.

Standard Name: FL-PRO ICV
Lab Standard ID#: 015V057
Prepared By: RL

Date Made: 03.22.01
Expire Date: 09.22.01
Matrix: $MeCl_2$

Standard	Lot/Lab ID#	Conc.	Amount Used	Final Conc.
FL-PRO Standard	SO1A063	500 ppm	500 ul	4250 PHS
C(39) PRO Surrogate	SO1A054	3,000 ppm	100 ul	300 ppm
OTP	EX00151-2	10,000 ppm	5 ul	50 ppm
$MeCl_2$	EX00185	-	395 ul	-
		RL 03.22.01		

Response Factor Report DRO-B

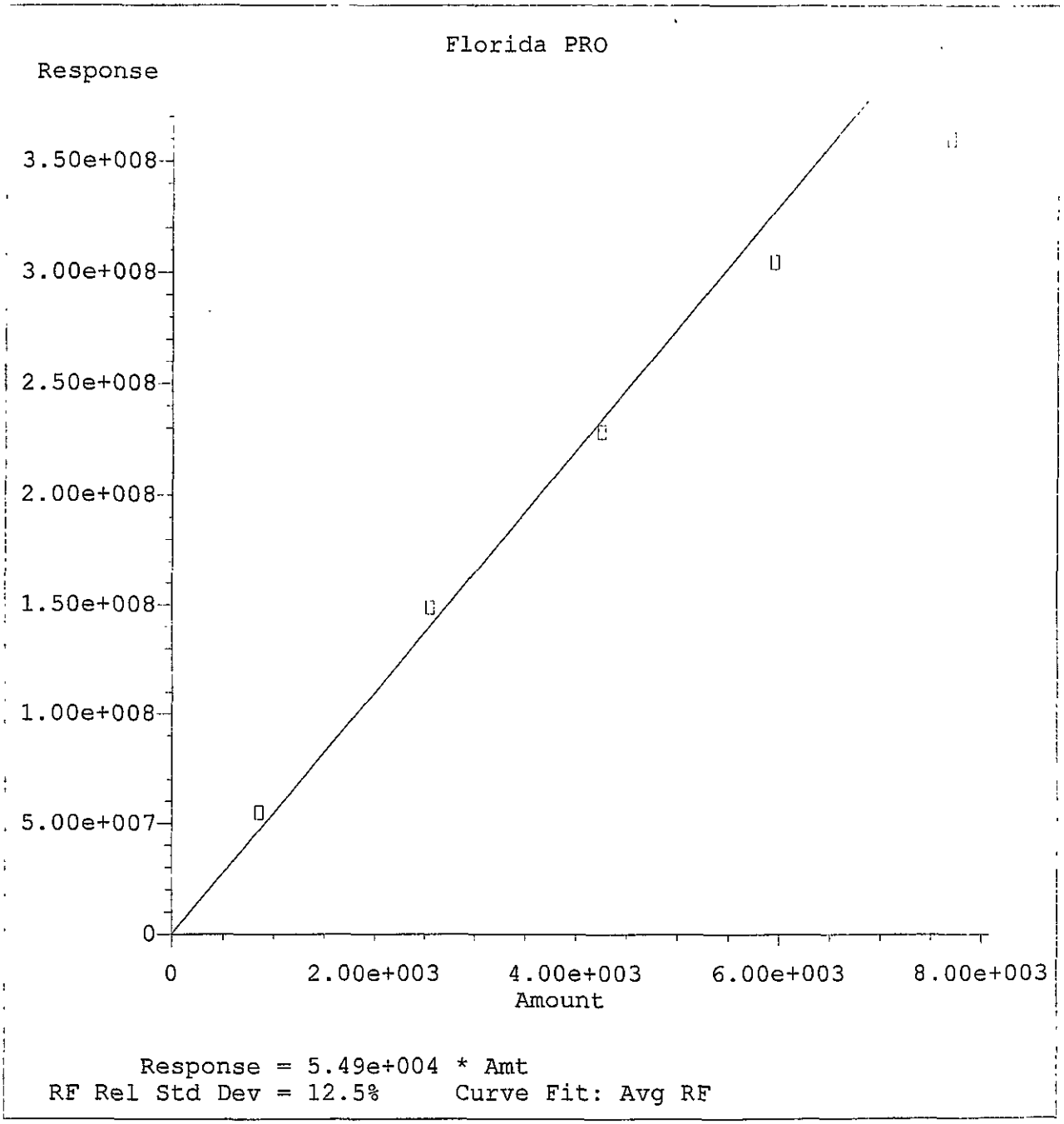
Method : C:\HPCHEM\2\METHODS\PRO0322.M (Chemstation Integrator)
Title : FLORIDA PRO BY GC; INST. #2
Last Update : Tue Mar 27 11:02:18 2001

Calibration Files
1 =03220102.D 2 =03220103.D 3 =03220104.D
4 =03220105.D 5 =03220106.D

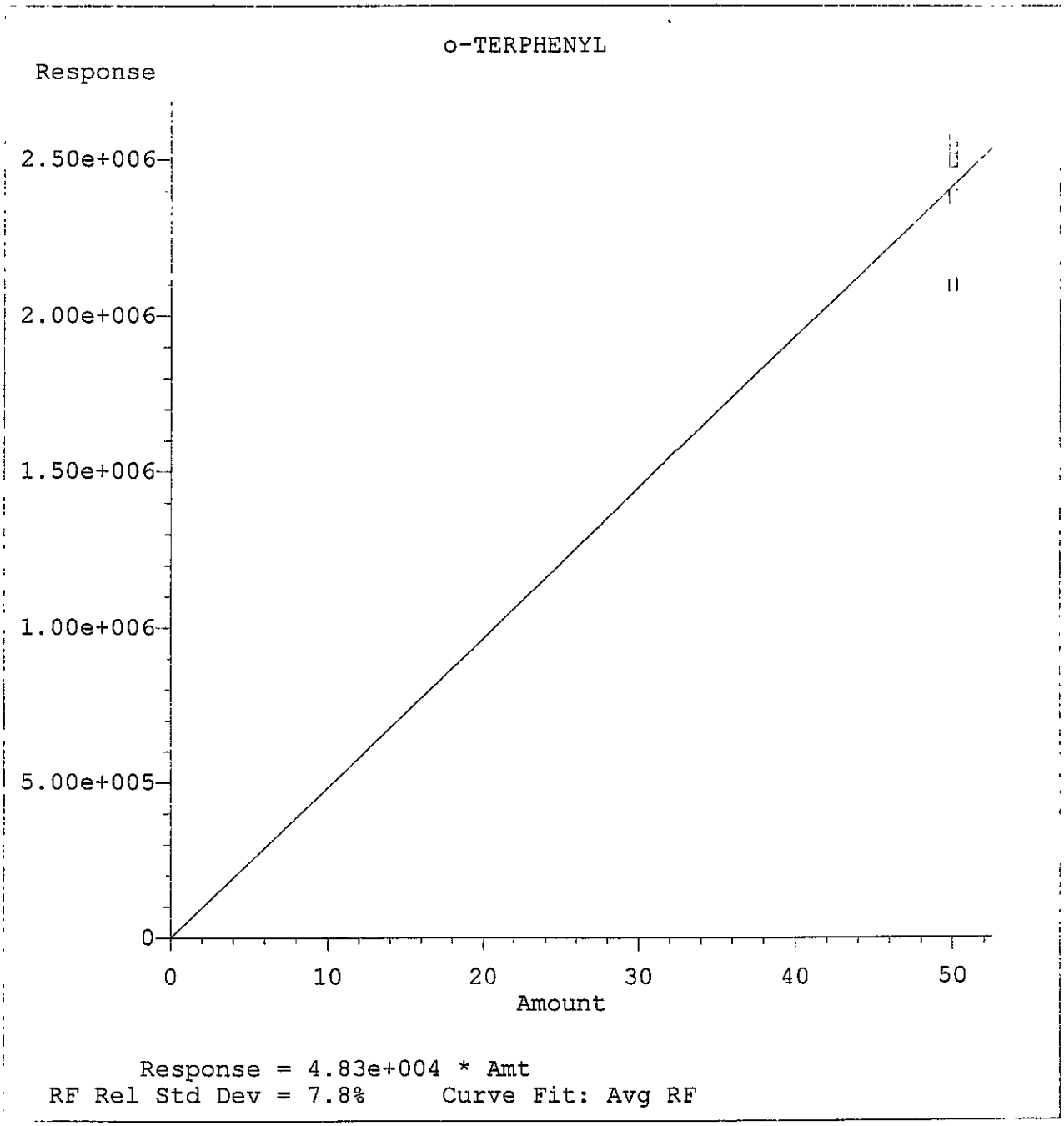
	Compound	1	2	3	4	5	Avg	%RSD
1) HM	Florida PRO	6.472	5.833	5.372	5.118	4.680	5.495 E4	12.51
2) SC	o-TERPHENYL	4.992	4.766	5.060	5.128	4.648	4.919 E4	4.14
3) SC	C(39)	4.258	4.365	4.678	4.479	4.349	4.426 E4	3.65

(#) = Out of Range

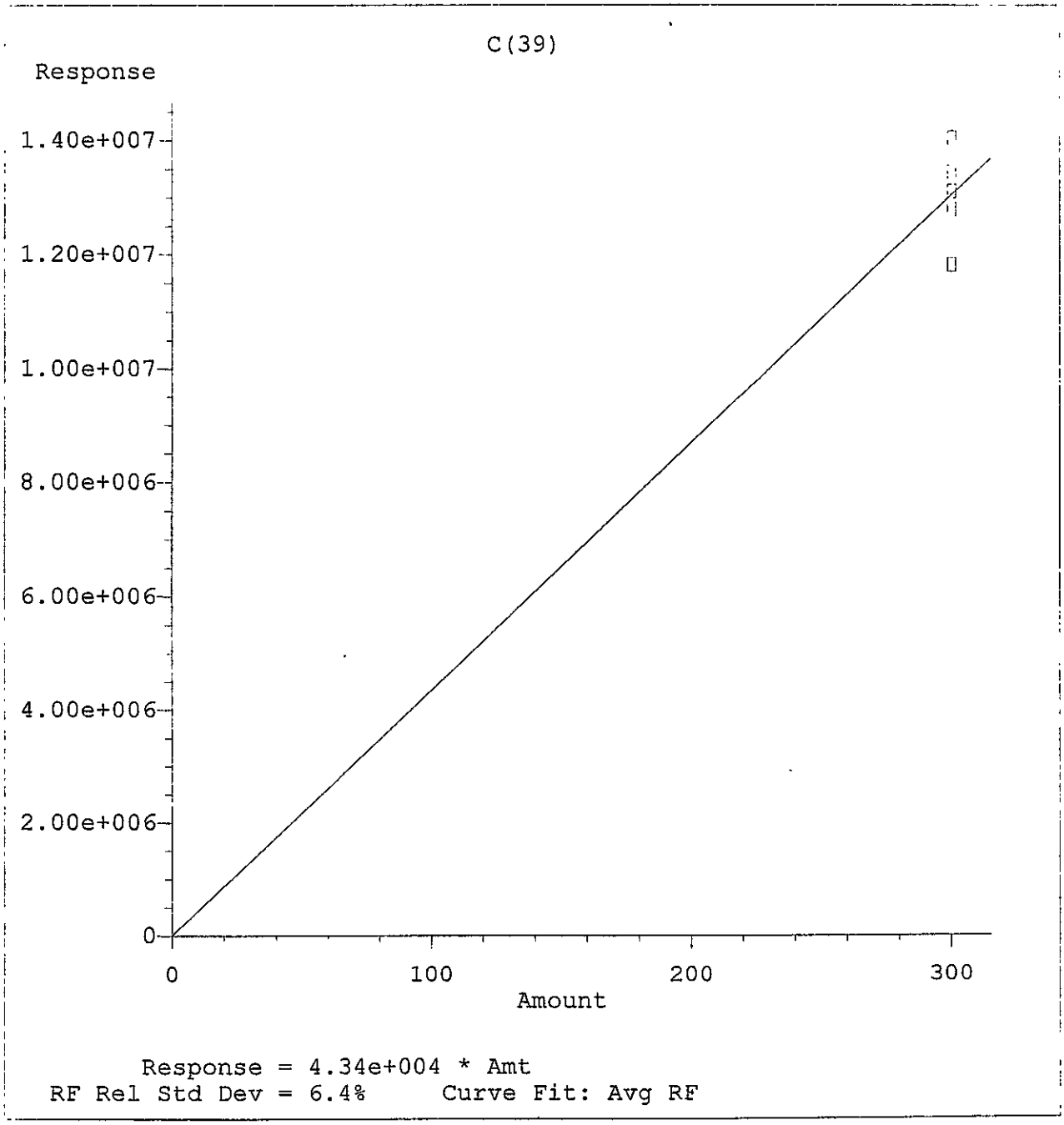
PRO0322.M Tue Mar 27 11:02:26 2001



Method Name: C:\HPCHEM\2\METHODS\PRO0322.M
Calibration Table Last Updated: Tue Jan 02 11:40:23 2001



Method Name: C:\HPCHEM\2\METHODS\PRO0322.M
Calibration Table Last Updated: Tue Jan 02 11:40:23 2001



Method Name: C:\HPCHEM\2\METHODS\PRO0322.M
Calibration Table Last Updated: Tue Jan 02 11:40:23 2001

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\032201\03220102.D Vial: 2
Acq On : 22 Mar 2001 9:35 Operator: RL
Sample : 850PHS PRO ICAL Inst : DRO-B
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Mar 22 10:17 2001 Quant Results File: PRO0315.RES

Quant Method : C:\HPCHEM\2\METHODS\PRO0315.M (Chemstation Integrator)
Title : FLORIDA PRO BY GC; INST. #2
Last Update : Tue Jan 02 11:40:23 2001
Response via : Initial Calibration
DataAcq Meth : PRO0315.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) SC o-TERPHENYL	18.96	2496228	38.776 ug/mlm
Spiked Amount 50.000	Recovery = 77.55%		
3) SC C(39)	33.77f	12774466	229.186 ug/mlm
Spiked Amount 300.000	Recovery = 76.40%		
Target Compounds			
1) HM Florida PRO	3.70	55009551	795.344 ug/ml

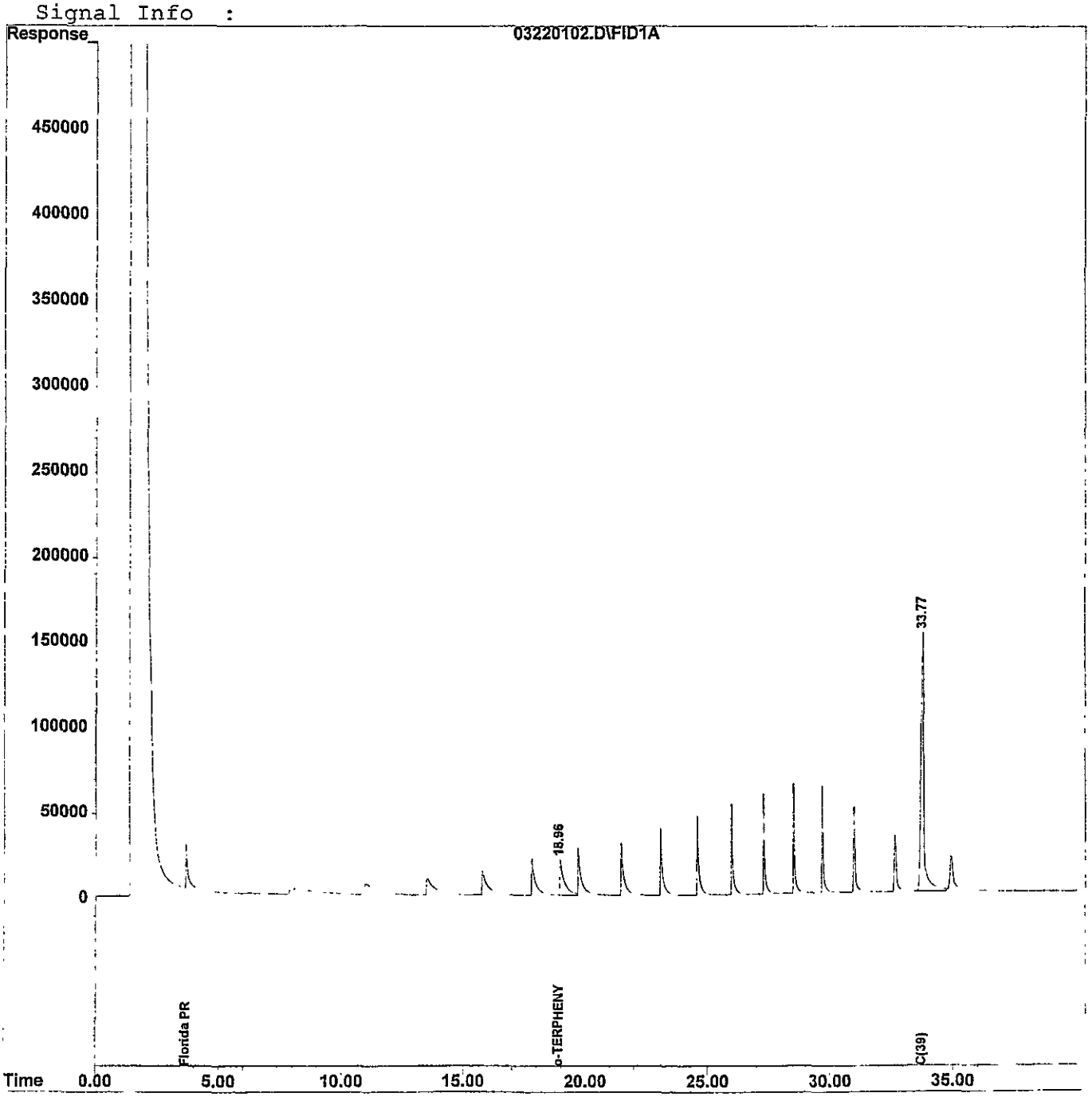
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\2\DATA\032201\03220102.D Vial: 2
Acq On : 22 Mar 2001 9:35 Operator: RL
Sample : 850PHS PRO ICAL Inst : DRO-B
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Mar 22 10:17 2001 Quant Results File: PRO0315.RES

Quant Method : C:\HPCHEM\2\METHODS\PRO0315.M (Chemstation Integrator)
Title : FLORIDA PRO BY GC; INST. #2
Last Update : Tue Jan 02 11:40:23 2001
Response via : Multiple Level Calibration
DataAcq Meth : PRO0315.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\032201\03220103.D Vial: 3
Acq On : 22 Mar 2001 10:24 Operator: RL
Sample : 2550PHS PRO ICAL Inst : DRO-B
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Mar 22 11:18 2001 Quant Results File: PRO0315.RES

Quant Method : C:\HPCHEM\2\METHODS\PRO0315.M (Chemstation Integrator)
Title : FLORIDA PRO BY GC; INST. #2
Last Update : Tue Jan 02 11:40:23 2001
Response via : Initial Calibration
DataAcq Meth : PRO0315.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) SC o-TERPHENYL	18.92	2382941	37.016 ug/mlm
Spiked Amount 50.000	Recovery = 74.03%		
3) SC C(39)	33.77f	13095040	234.938 ug/mlm
Spiked Amount 300.000	Recovery = 78.31%		
Target Compounds			
1) HM Florida PRO	3.70	148731650	2150.405 ug/ml

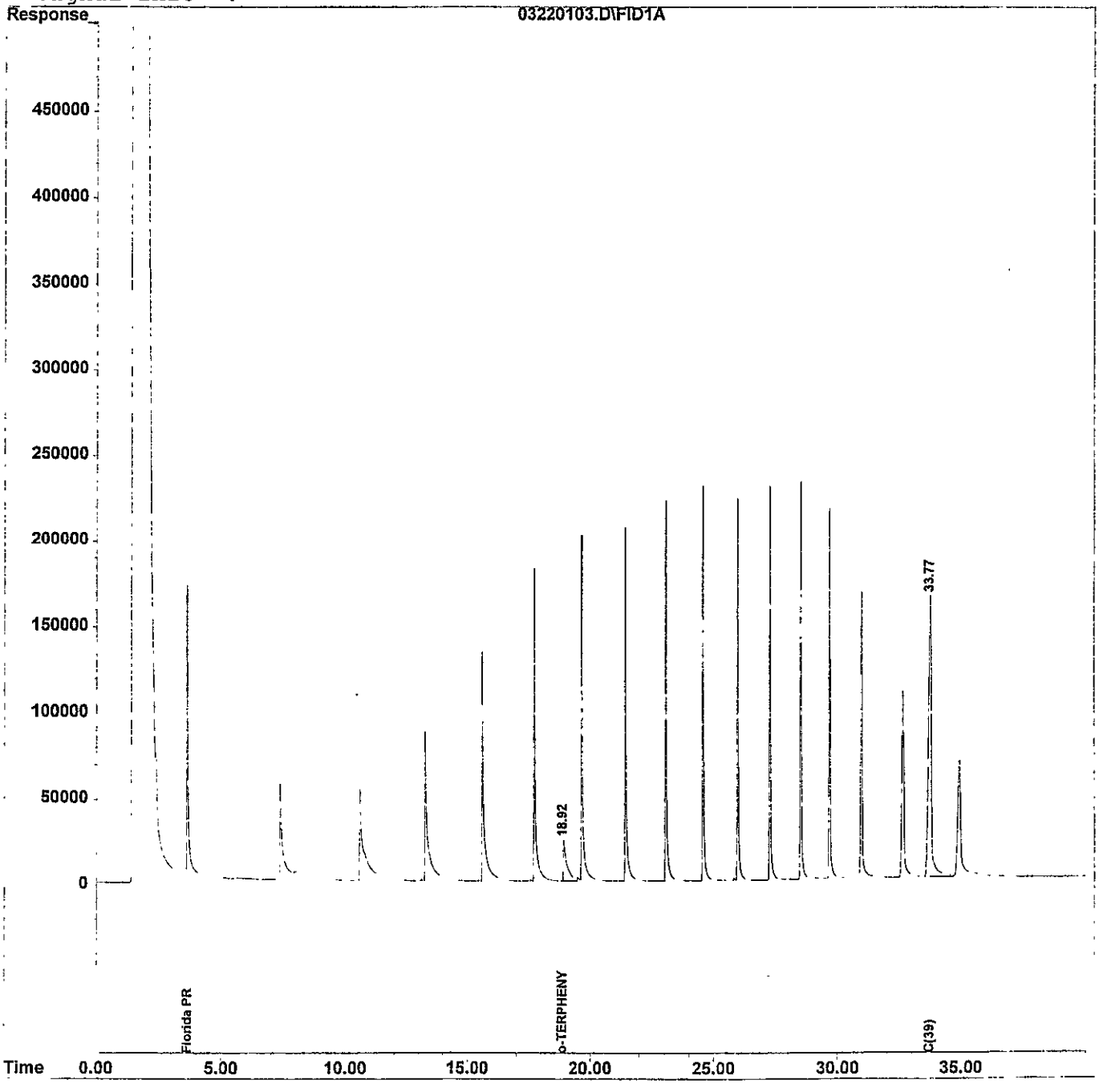
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\2\DATA\032201\03220103.D Vial: 3
Acq On : 22 Mar 2001 10:24 Operator: RL
Sample : 2550PHS PRO ICAL Inst : DRO-B
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Mar 22 11:18 2001 Quant Results File: PRO0315.RES

Quant Method : C:\HPCHEM\2\METHODS\PRO0315.M (Chemstation Integrator)
Title : FLORIDA PRO BY GC; INST. #2
Last Update : Tue Jan 02 11:40:23 2001
Response via : Multiple Level Calibration
DataAcq Meth : PRO0315.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\032201\03220104.D Vial: 4
Acq On : 22 Mar 2001 11:12 Operator: RL
Sample : 4250PHS PRO ICAL Inst : DRO-B
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Mar 22 12:02 2001 Quant Results File: PRO0315.RES

Quant Method : C:\HPCHEM\2\METHODS\PRO0315.M (Chemstation Integrator)
Title : FLORIDA PRO BY GC; INST. #2
Last Update : Tue Jan 02 11:40:23 2001
Response via : Initial Calibration
DataAcq Meth : PRO0315.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) SC o-TERPHENYL	18.91	2530154	39.303 ug/mlm
Spiked Amount 50.000	Recovery =	78.61%	
3) SC C(39)	33.78	14035475	251.810 ug/mlm
Spiked Amount 300.000	Recovery =	83.94%	
Target Compounds			
1) HM Florida PRO	3.70	228292638	3300.720 ug/ml

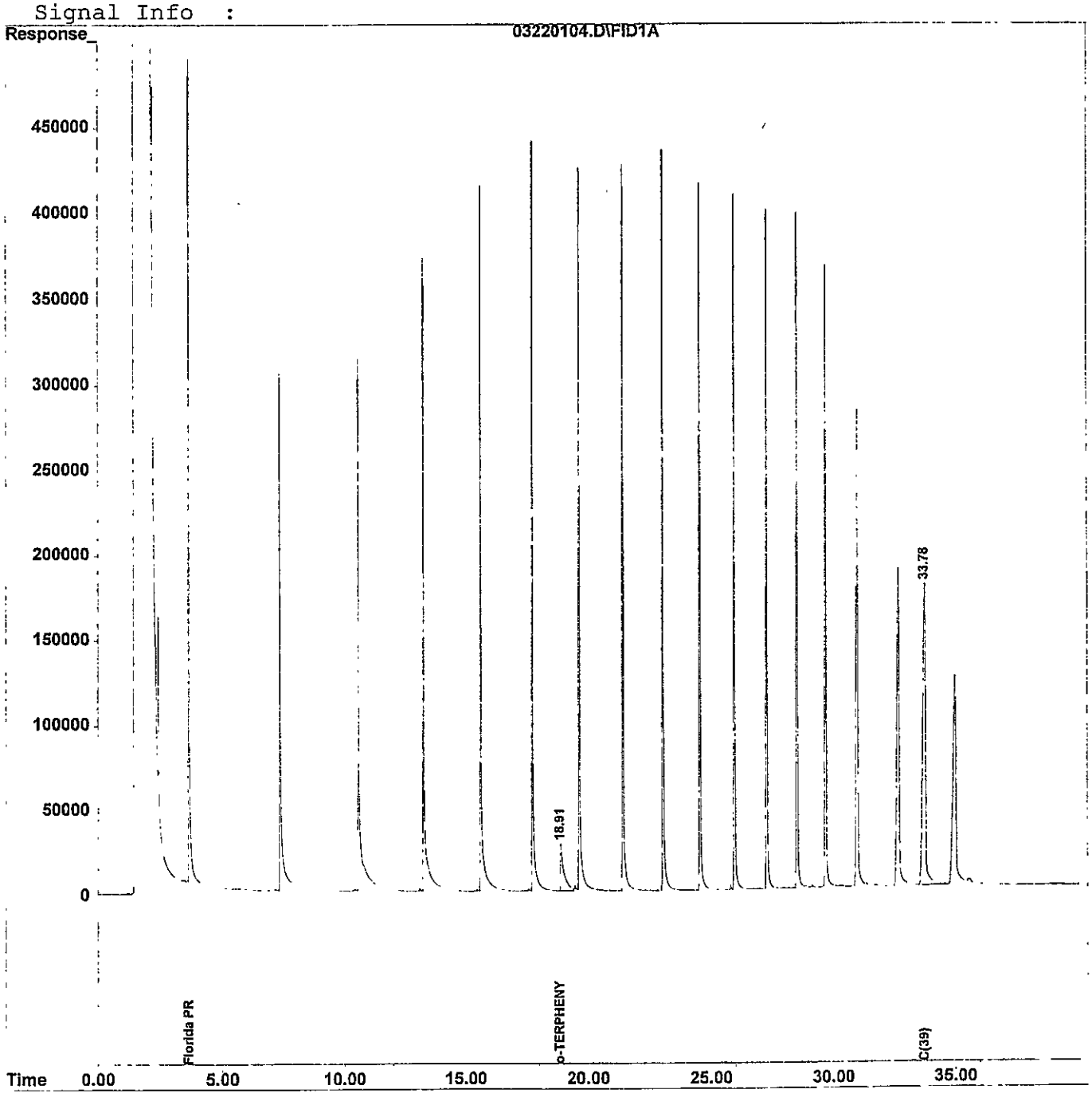
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\2\DATA\032201\03220104.D Vial: 4
Acq On : 22 Mar 2001 11:12 Operator: RL
Sample : 4250PHS PRO ICAL Inst : DRO-B
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Mar 22 12:02 2001 Quant Results File: PRO0315.RES

Quant Method : C:\HPCHEM\2\METHODS\PRO0315.M (Chemstation Integrator)
Title : FLORIDA PRO BY GC; INST. #2
Last Update : Tue Jan 02 11:40:23 2001
Response via : Multiple Level Calibration
DataAcq Meth : PRO0315.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\032201\03220105.D Vial: 5
Acq On : 22 Mar 2001 12:01 Operator: RL
Sample : 5950PHS PRO ICAL Inst : DRO-B
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Mar 22 12:44 2001 Quant Results File: PRO0315.RES

Quant Method : C:\HPCHEM\2\METHODS\PRO0315.M (Chemstation Integrator)
Title : FLORIDA PRO BY GC; INST. #2
Last Update : Tue Jan 02 11:40:23 2001
Response via : Initial Calibration
DataAcq Meth : PRO0315.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) SC o-TERPHENYL	18.91	2564073	39.830 ug/mlm
Spiked Amount 50.000	Recovery = 79.66%		
3) SC C(39)	33.77f	13435562	241.047 ug/mlm
Spiked Amount 300.000	Recovery = 80.35%		
Target Compounds			
1) HM Florida PRO	3.70	304533890	4403.038 ug/ml

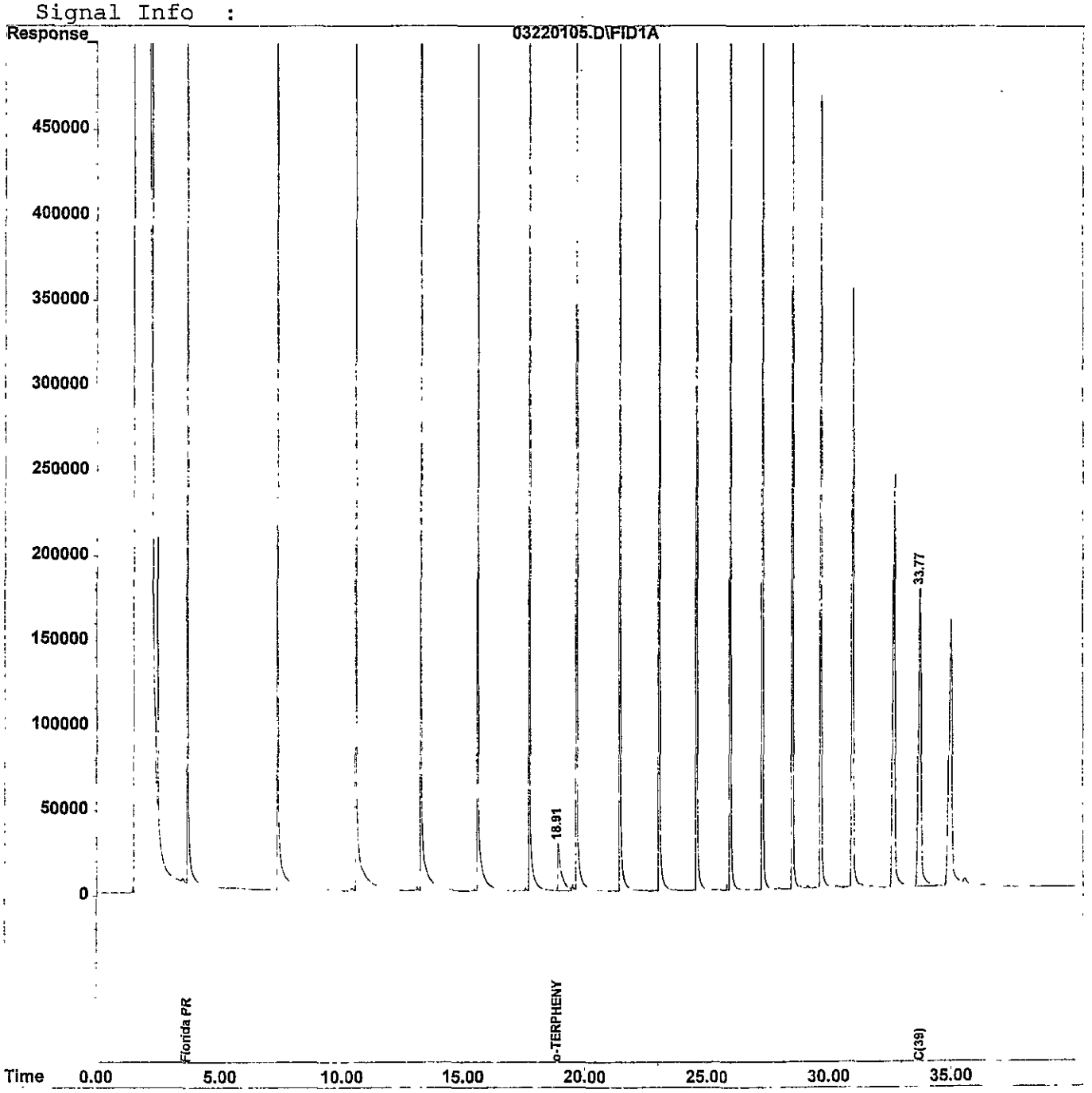
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\2\DATA\032201\03220105.D Vial: 5
Acq On : 22 Mar 2001 12:01 Operator: RL
Sample : 5950PHS PRO ICAL Inst : DRO-B
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Mar 22 12:44 2001 Quant Results.File: PRO0315.RES

Quant Method : C:\HPCHEM\2\METHODS\PRO0315.M (Chemstation Integrator)
Title : FLORIDA PRO BY GC; INST. #2
Last Update : Tue Jan 02 11:40:23 2001
Response via : Multiple Level Calibration
DataAcq Meth : PRO0315.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\032201\03220106.D Vial: 6
Acq On : 22 Mar 2001 12:49 Operator: RL
Sample : 7692PHS PRO ICAL Inst : DRO-B
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Mar 22 13:36 2001 Quant Results File: PRO0315.RES

Quant Method : C:\HPCHEM\2\METHODS\PRO0315.M (Chemstation Integrator)
Title : FLORIDA PRO BY GC; INST. #2
Last Update : Tue Jan 02 11:40:23 2001
Response via : Initial Calibration
DataAcq Meth : PRO0315.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) SC o-TERPHENYL	18.92	2101045	32.637 ug/mlm
Spiked Amount 50.000	Recovery = 65.27%		
3) SC C(39)	33.76f	11806484	211.820 ug/mlm
Spiked Amount 300.000	Recovery = 70.61%		
Target Compounds			
1) HM Florida PRO	3.70	359979107	5204.681 ug/ml

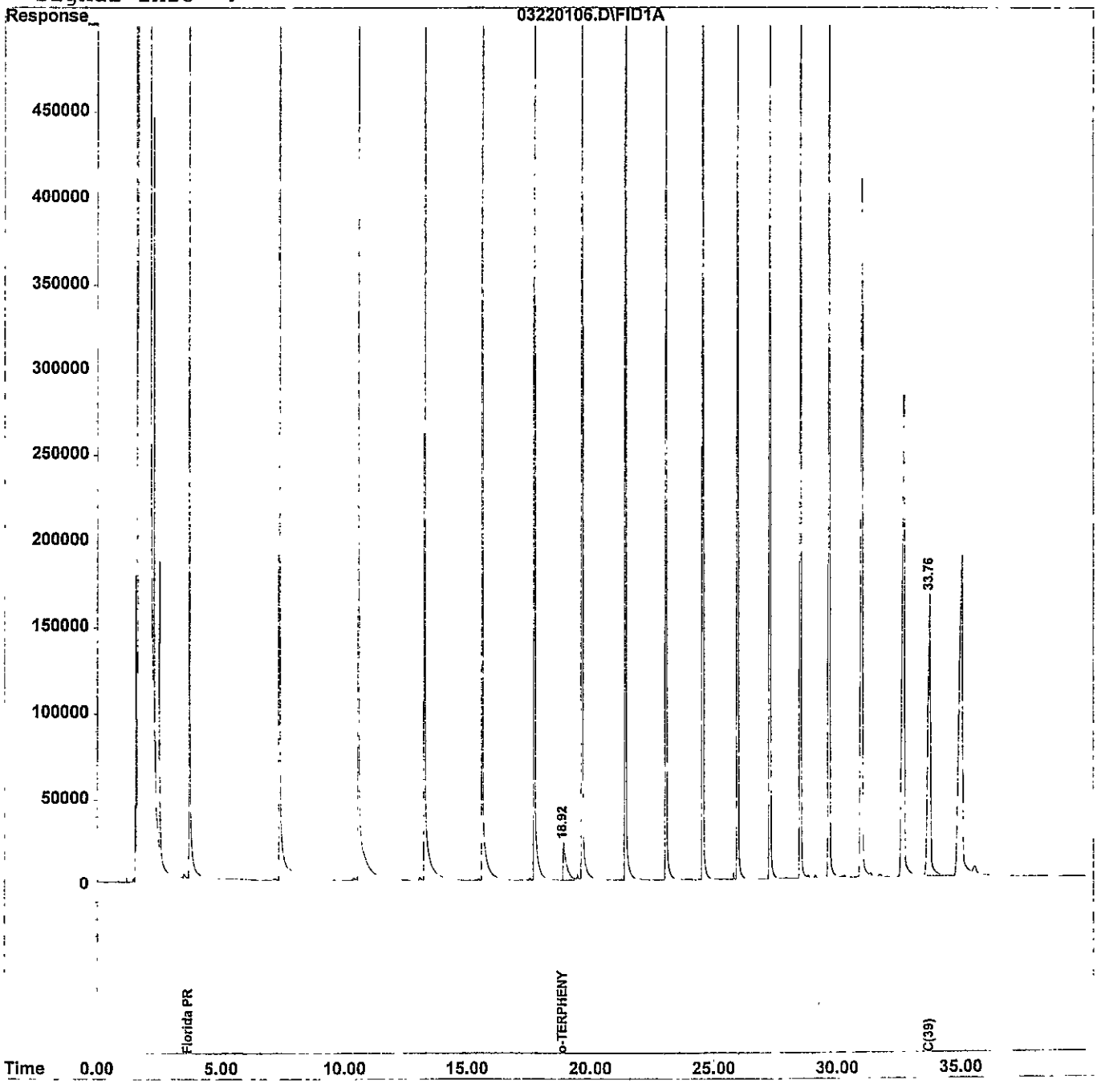
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\2\DATA\032201\03220106.D Vial: 6
Acq On : 22 Mar 2001 12:49 Operator: RL
Sample : 7692PHS PRO ICAL Inst : DRO-B
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Mar 22 13:36 2001 Quant Results File: PRO0315.RES

Quant Method : C:\HPCHEM\2\METHODS\PRO0315.M (Chemstation Integrator)
Title : FLORIDA PRO BY GC; INST. #2
Last Update : Tue Jan 02 11:40:23 2001
Response via : Multiple Level Calibration
DataAcq Meth : PRO0315.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\032201\03220107.D Vial: 7
Acq On : 22 Mar 2001 13:38 Operator: RL
Sample : 4250PHS PRO ICV Inst : DRO-B
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Mar 22 14:20 2001 Quant Results File: PRO0322.RES

Quant Method : C:\HPCHEM\2\METHODS\PRO0322.M (Chemstation Integrator)
Title : FLORIDA PRO BY GC; INST. #2
Last Update : Tue Jan 02 11:40:23 2001
Response via : Initial Calibration
DataAcq Meth : PRO0315.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) SC o-TERPHENYL	18.91	2431101	50.336 ug/mlm
Spiked Amount 50.000	Recovery = 100.67%		
3) SC C(39)	33.76	13192041	303.745 ug/mlm
Spiked Amount 300.000	Recovery = 101.25%		
Target Compounds			
1) HM Florida PRO	3.70	231160012	4206.879 ug/ml

99% ✓ RL

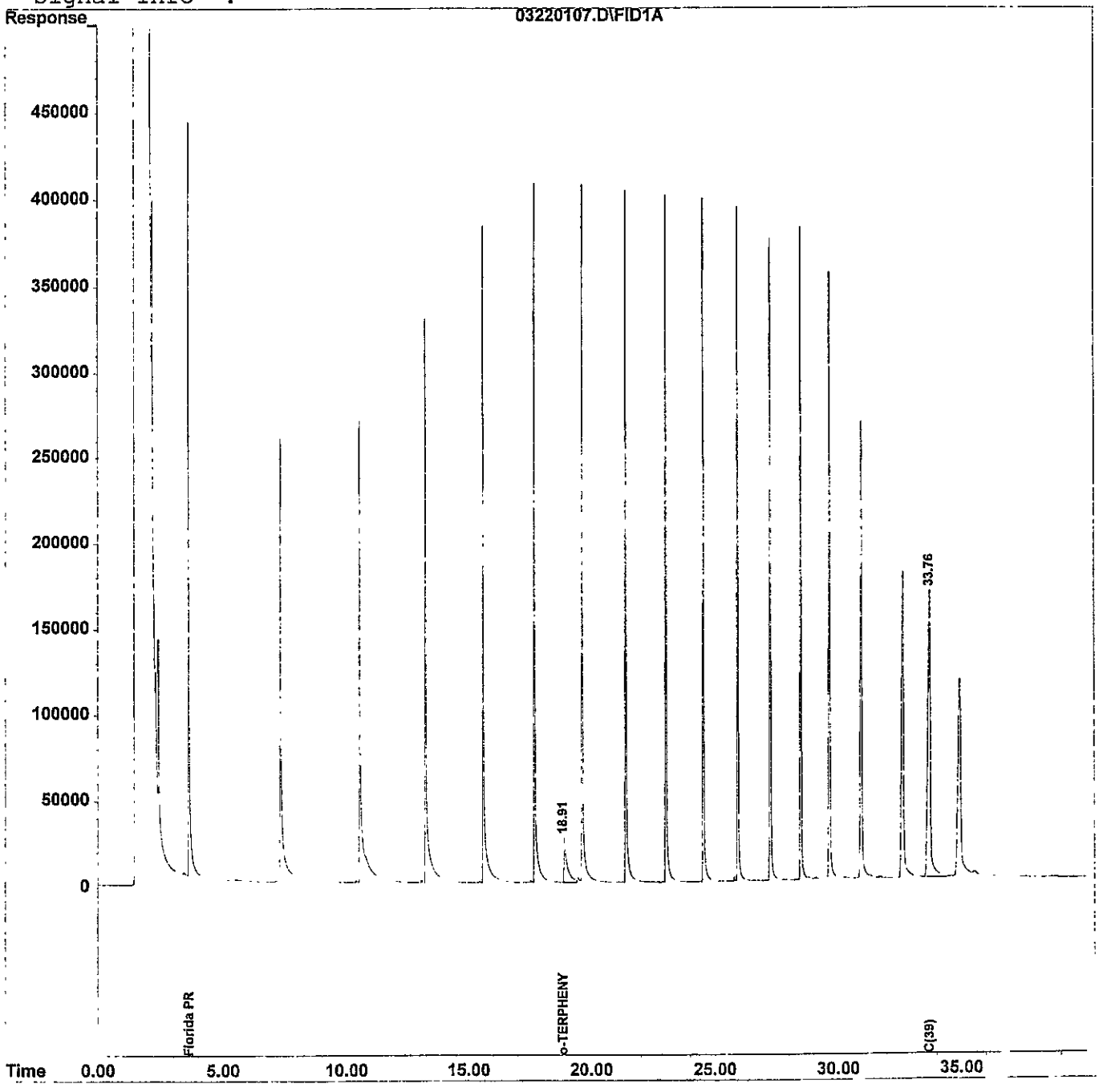
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\2\DATA\032201\03220107.D Vial: 7
Acq On : 22 Mar 2001 13:38 Operator: RL
Sample : 4250PHS PRO ICV Inst : DRO-B
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Mar 22 14:20 2001 Quant Results File: PRO0322.RES

Quant Method : C:\HPCHEM\2\METHODS\PRO0322.M (Chemstation Integrator)
Title : FLORIDA PRO BY GC; INST. #2
Last Update : Tue Jan 02 11:40:23 2001
Response via : Multiple Level Calibration
DataAcq Meth : PRO0315.M

Volume Inj. :
Signal Phase :
Signal Info :



Sequence Date: 4/3/01
Analyst Initials: BP/AL
Run Method: PRO 0322
Quant Method: 1 1

	Sample	Blank/LCS
Water OTP/C(39) Limits	82-144 / 42-193	82-142 / 42-193
Soil OTP/C(39) Limits	62-109 / 60-118	62-109 / 60-116

Compound: FL-PRO
Date: 03/22/01

Vial Position	AAL Sample I.D. #	Extraction Date	Matrix BP 4/5/01	Dilution Factor	OTP/C(39) Recovery	Spike Recovery	AAL Std. I.D. #	Status	Comments
1	4250 PHS PRO CCV	—	~~Med~~ Std	1x	96 / 90	103	015V058	✓	
2	Solvent Blank	—	Med		NA →				
3	QFW040101	4/1/01	Water		99 / 39				
4	QFW040101 2				84 / 18	71			
5	10502 W MS				8 / 15			X	Conc. lower than native sample
6	10502 W MSD				7 / 13			X	
7	~~10502 W~~ 10497 W				96 / 57			✓	
8	~~10497 W~~ 10502 W BP 4/5/01				7 / 46			X	Rerun w/ dilution
9	10498 W				60 / 36			✓	
10	10499 W				57 / 56				
11	10500 W				71 / 52				
12	10501 W	↓	↓		60 / 37				
13	4250 PHS PRO CCV	—	Std		99 / 96	94	015V058		
14	Solvent Blank	—	Med		NA / →				
15	10503 W	4/1/01	Water		60 / 34				
16	10504 W	↓	↓		95 / 35				
17	4250 PHS PRO CCV	—	Std		104 / 99	93	015V058		
18	Solvent Blank	—	Med	↓	NA / →			↓	
					/				
					/				
					/				
				BP	4/5/01				

Initials / Date:

Runlog_DRO-B.xls

Sequence Date: 4/4/01
Analyst Initials: RL
Run Method: PR00322
Quant Method: ↓ ↓

	Sample	Blank/LCS
Water OTP/C(39) Limits	82-142 | 42-193	82-142 | 42-193
Soil OTP/C(39) Limits	62-109 | 60-118	62-109 | 60-118

Compound: FL-PRO
Date: 03/22/01

Vial Position	AAL Sample I.D. #	Extraction Date	Matrix	Dilution Factor	OTP/C(39) Recovery	Spike Recovery	AAL Std. I.D. #	Status	Comments
1	4250 PHS PRO CCV	–	Std	1x	103 | 90	89	010SV058	✓	
2	Solvent Blank	–	Meth	↓	NA | →				
3	10502 W	4/1/01	Water	10x	82 | 39				
4	4250 PHS PRO CCV	–	Std	1x	103 | 97	94	010SV058		
5	Solvent Blank	–	Meth	↓	NA | →			↓	
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APR 4/3/01

Initials / Date:

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\040301\04030101.D Vial: 1
Acq On : 3 Apr 2001 8:01 Operator: BP
Sample : 4250 PHS PRO CCV Inst : DRO-B
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Apr 3 9:06 2001 Quant Results File: PRO0322.RES

Quant Method : C:\HPCHEM\2\METHODS\PRO0322.M (Chemstation Integrator)
Title : FLORIDA PRO BY GC; INST. #2
Last Update : Tue Jan 02 11:40:23 2001
Response via : Initial Calibration
DataAcq Meth : PRO0322.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) SC o-TERPHENYL	18.91	2315057	47.933 ug/mlm
Spiked Amount 50.000	Recovery = 95.87%		
3) SC C(39)	33.72	11660795	268.488 ug/mlm
Spiked Amount 300.000	Recovery = 89.50%		
Target Compounds			
1) HM Florida PRO	3.70	239517312	4358.974 ug/ml

4250 = 102%

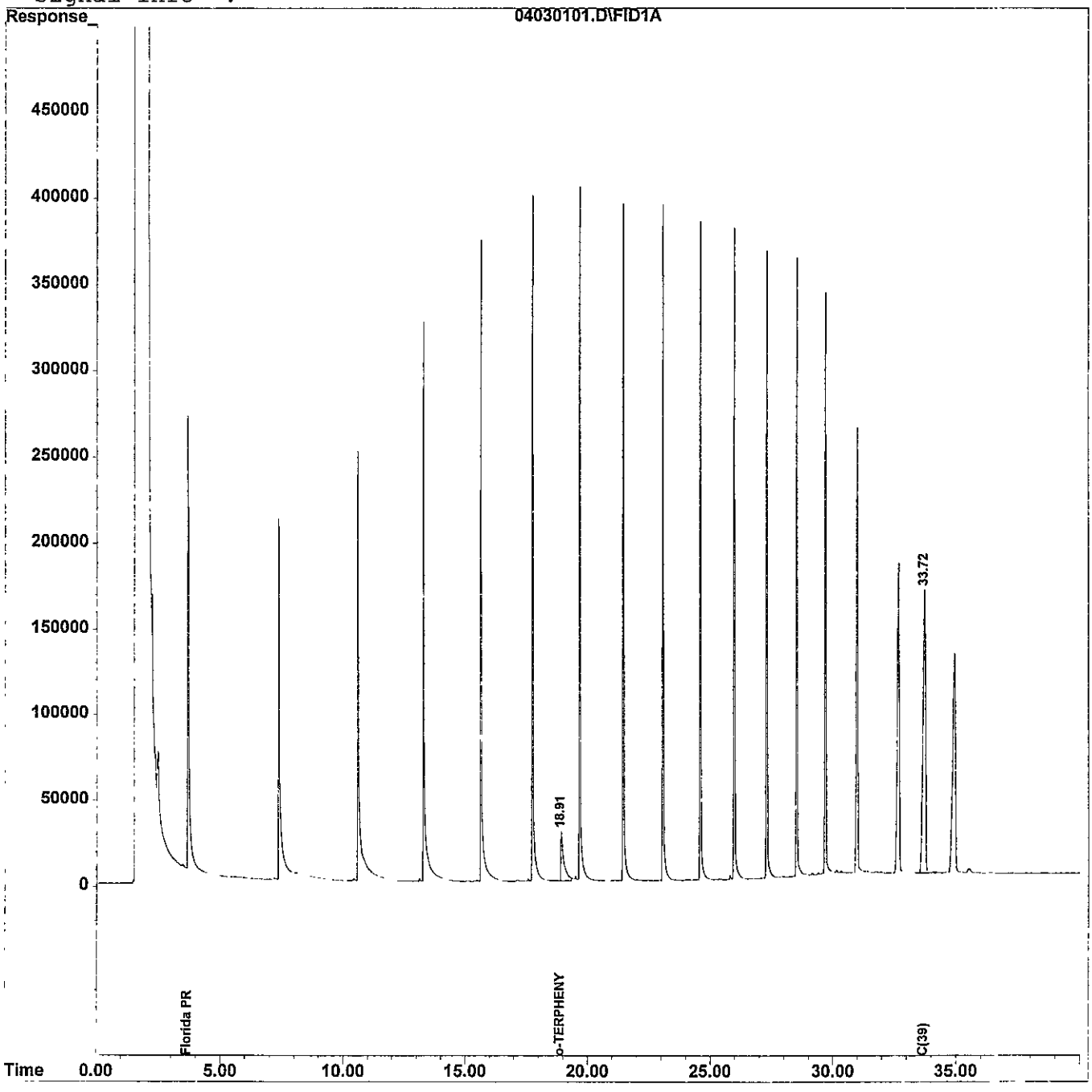
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\2\DATA\040301\04030101.D Vial: 1
Acq On : 3 Apr 2001 8:01 Operator: BP
Sample : 4250 PHS PRO CCV Inst : DRO-B
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Apr 3 9:06 2001 Quant Results File: PRO0322.RES

Quant Method : C:\HPCHEM\2\METHODS\PRO0322.M (Chemstation Integrator)
Title : FLORIDA PRO BY GC; INST. #2
Last Update : Tue Jan 02 11:40:23 2001
Response via : Multiple Level Calibration
DataAcq Meth : PRO0322.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\040301\04030113.D Vial: 13
Acq On : 3 Apr 2001 17:42 Operator: BP
Sample : 4250OPHS PRO CCV Inst : DRO-B
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Apr 4 6:48 2001 Quant Results File: PRO0322.RES

Quant Method : C:\HPCHEM\2\METHODS\PRO0322.M (Chemstation Integrator)
Title : FLORIDA PRO BY GC; INST. #2
Last Update : Tue Jan 02 11:40:23 2001
Response via : Initial Calibration
DataAcq Meth : PRO0322.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) SC o-TERPHENYL	18.84f	2381894	49.317 ug/mlm
Spiked Amount 50.000	Recovery =		98.63%
3) SC C(39)	33.67	12518622	288.239 ug/mlm
Spiked Amount 300.000	Recovery =		96.08%
Target Compounds			
1) HM Florida PRO	3.70	219914654	4002.225 ug/ml

$\frac{4002.225}{4250} = 94\%$

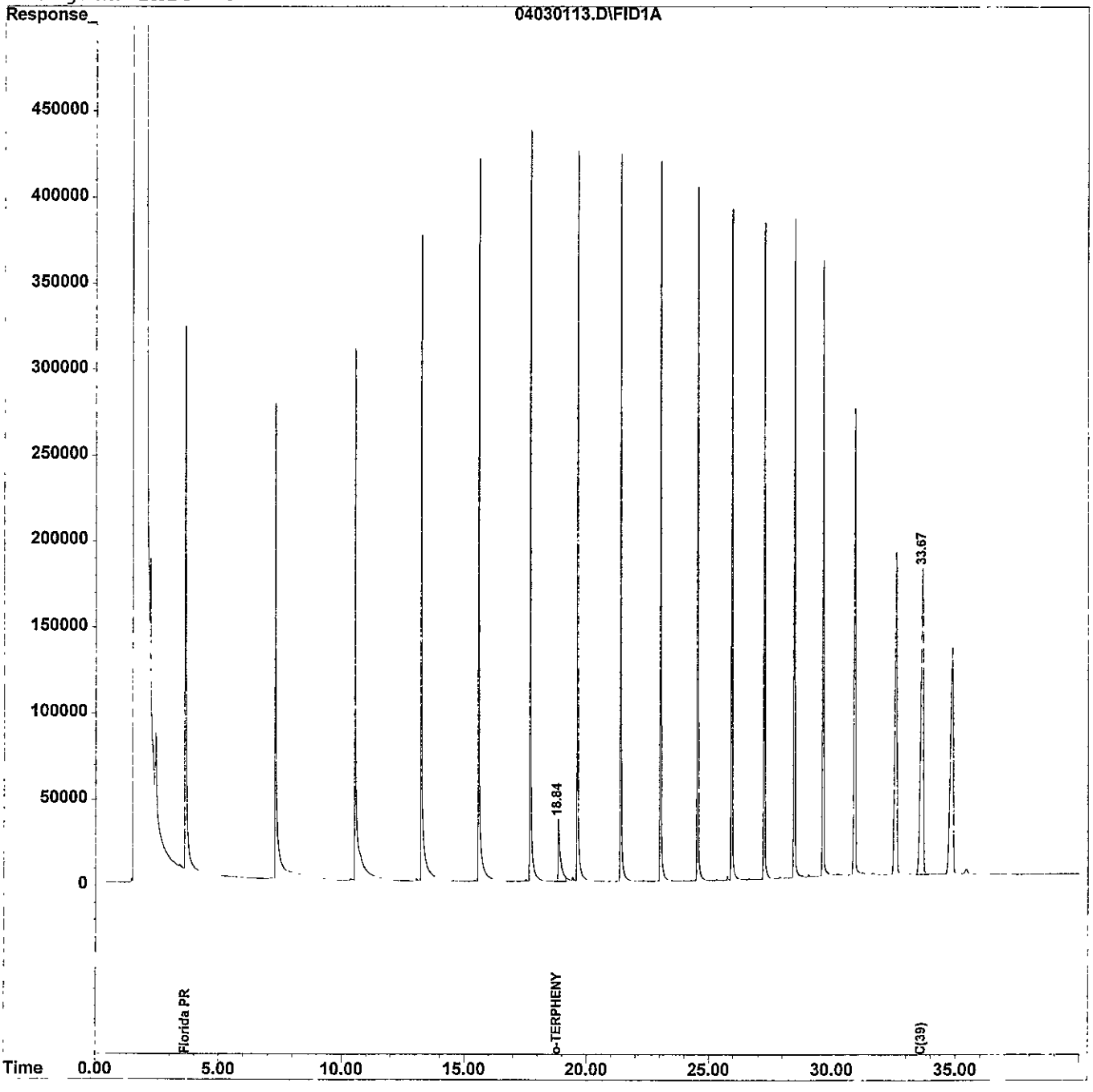
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\2\DATA\040301\04030113.D Vial: 13
Acq On : 3 Apr 2001 17:42 Operator: BP
Sample : 4250OPHS PRO CCV Inst : DRO-B
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Apr 4 6:48 2001 Quant Results File: PRO0322.RES

Quant Method : C:\HPCHEM\2\METHODS\PRO0322.M (Chemstation Integrator)
Title : FLORIDA PRO BY GC; INST. #2
Last Update : Tue Jan 02 11:40:23 2001
Response via : Multiple Level Calibration
DataAcq Meth : PRO0322.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\040301\04030117.D Vial: 17
Acq On : 3 Apr 2001 20:56 Operator: BP
Sample : 4250PHS PRO CCV Inst : DRO-B
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Apr 4 6:49 2001 Quant Results File: PRO0322.RES

Quant Method : C:\HPCHEM\2\METHODS\PRO0322.M (Chemstation Integrator)
Title : FLORIDA PRO BY GC; INST. #2
Last Update : Tue Jan 02 11:40:23 2001
Response via : Initial Calibration
DataAcq Meth : PRO0322.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) SC o-TERPHENYL	18.85f	2502778	51.820 ug/mlm
Spiked Amount 50.000	Recovery = 103.64%		
3) SC C(39)	33.68	12837552	295.583 ug/mlm
Spiked Amount 300.000	Recovery = 98.53%		
Target Compounds			
1) HM Florida PRO	3.70	218161843	3970.326 ug/ml

3970.326 / 4250 = 93%

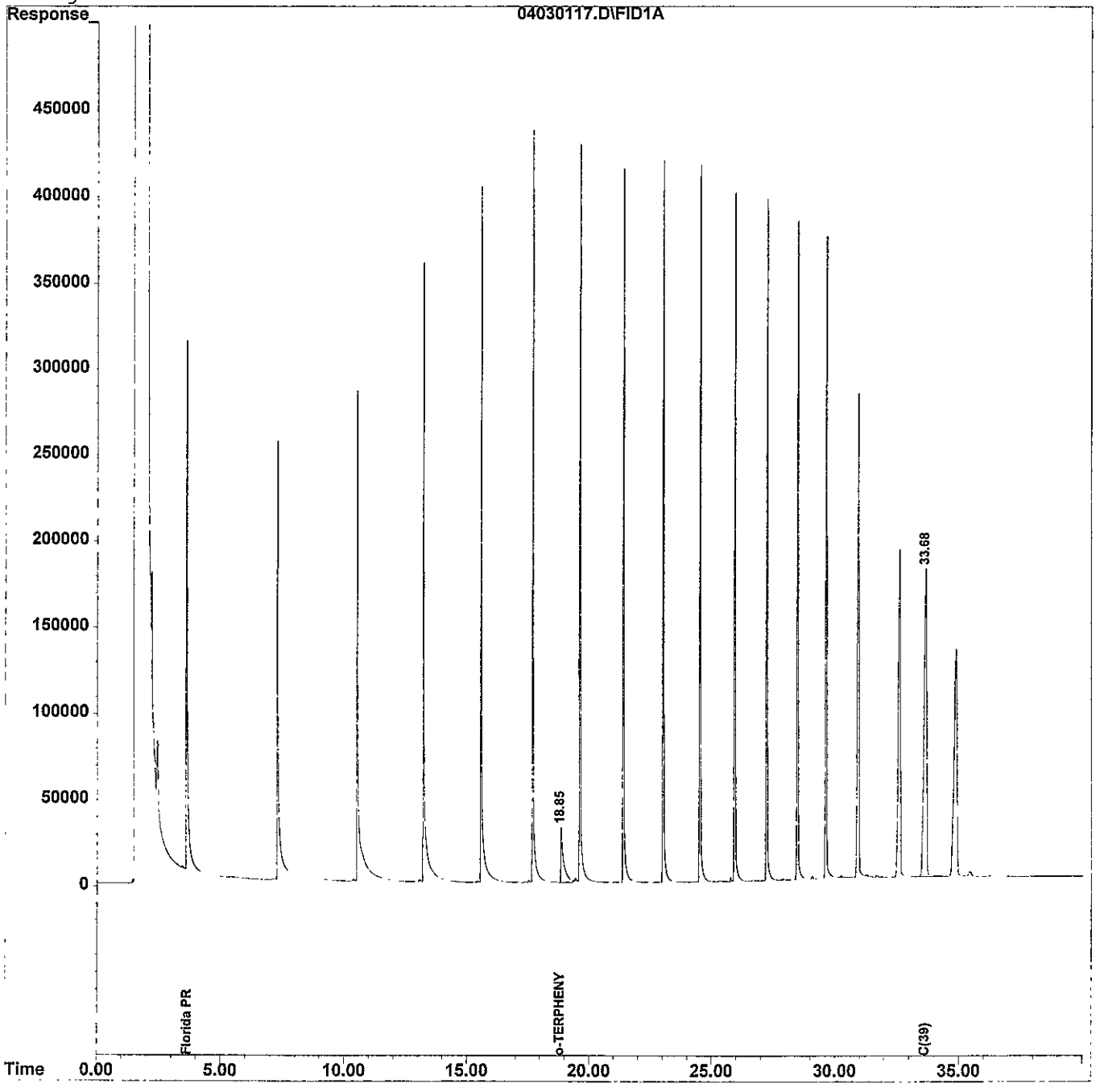
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\2\DATA\040301\04030117.D Vial: 17
Acq On : 3 Apr 2001 20:56 Operator: BP
Sample : 4250PHS PRO CCV Inst : DRO-B
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Apr 4 6:49 2001 Quant Results File: PRO0322.RES

Quant Method : C:\HPCHEM\2\METHODS\PRO0322.M (Chemstation Integrator)
Title : FLORIDA PRO BY GC; INST. #2
Last Update : Tue Jan 02 11:40:23 2001
Response via : Multiple Level Calibration
DataAcq Meth : PRO0322.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\040401\04040101.D Vial: 1
Acq On : 4 Apr 2001 7:52 Operator: RL
Sample : 4250 PHS PRO CCV Inst : DRO-B
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Apr 4 8:33 2001 Quant Results File: PRO0322.RES

Quant Method : C:\HPCHEM\2\METHODS\PRO0322.M (Chemstation Integrator)
Title : FLORIDA PRO BY GC; INST. #2
Last Update : Tue Jan 02 11:40:23 2001
Response via : Initial Calibration
DataAcq Meth : PRO0322.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) SC o-TERPHENYL	18.88	2483370	51.418 ug/mlm
Spiked Amount 50.000	Recovery =		102.84%
3) SC C(39)	33.70	11780514	271.244 ug/mlm
Spiked Amount 300.000	Recovery =		90.41%
Target Compounds			
1) HM Florida PRO	3.70	207659960	3779.202 ug/ml

$\frac{3779.202}{4250} = 89\%$

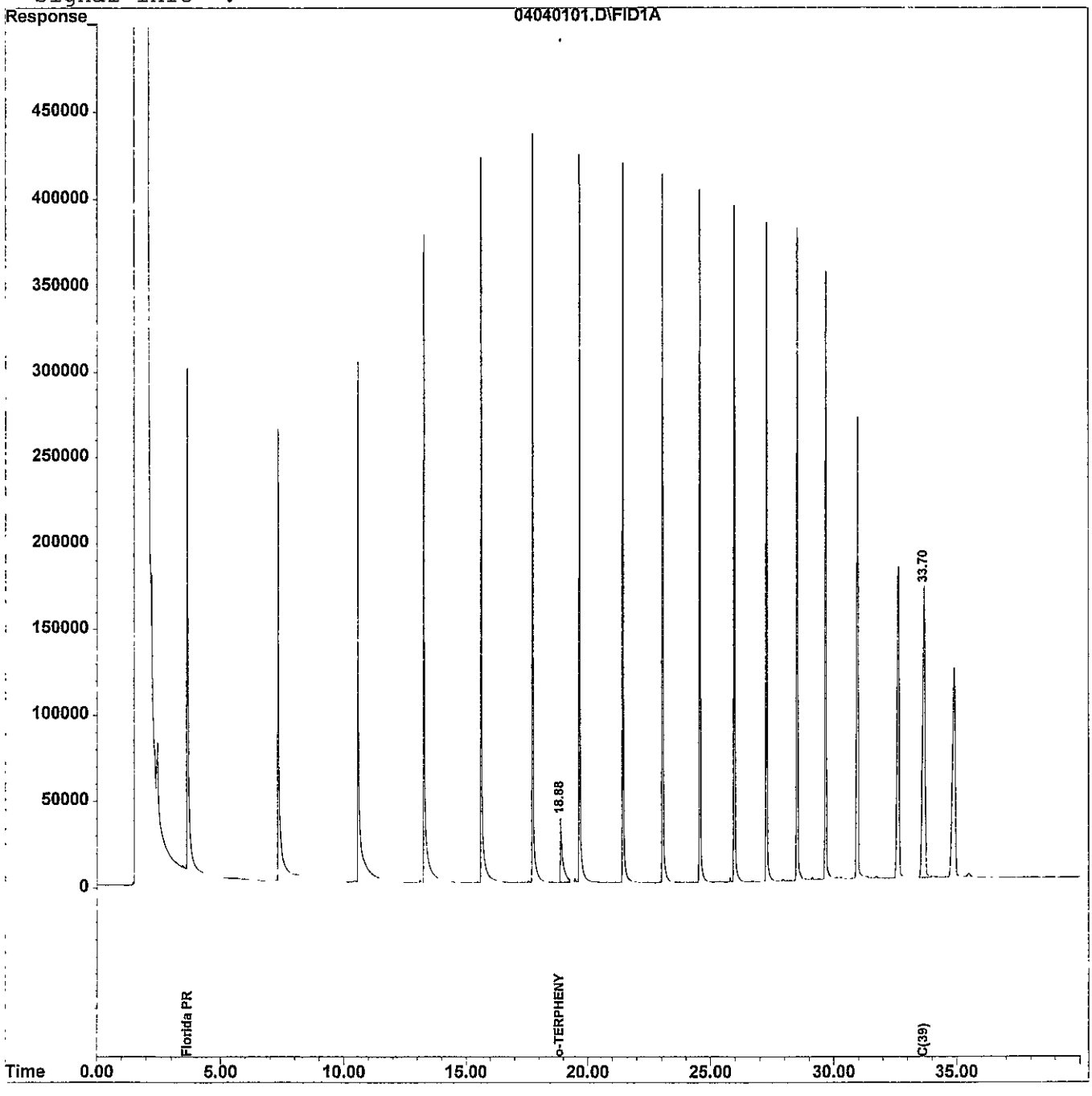
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\2\DATA\040401\04040101.D Vial: 1
Acq On : 4 Apr 2001 7:52 Operator: RL
Sample : 4250 PHS PRO CCV Inst : DRO-B
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Apr 4 8:33 2001 Quant Results File: PRO0322.RES

Quant Method : C:\HPCHEM\2\METHODS\PRO0322.M (Chemstation Integrator)
Title : FLORIDA PRO BY GC; INST. #2
Last Update : Tue Jan 02 11:40:23 2001
Response via : Multiple Level Calibration
DataAcq Meth : PRO0322.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\040401\04040104.D Vial: 4
Acq On : 4 Apr 2001 10:17 Operator: RL
Sample : 4250PHS PRO CCV Inst : DRO-B
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Apr 4 11:20 2001 Quant Results File: PRO0322.RES

Quant Method : C:\HPCHEM\2\METHODS\PRO0322.M (Chemstation Integrator)
Title : FLORIDA PRO BY GC; INST. #2
Last Update : Tue Jan 02 11:40:23 2001
Response via : Initial Calibration
DataAcq Meth : PRO0322.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) SC o-TERPHENYL	18.84f	2493049	51.618 ug/mlm
Spiked Amount 50.000		Recovery =	103.24%
3) SC C(39)	33.65	12699044	292.393 ug/mlm
Spiked Amount 300.000		Recovery =	97.46%
Target Compounds			
1) HM Florida PRO	3.70	220219197	4007.767 ug/ml

$\frac{4007.767}{4250} = 94\%$

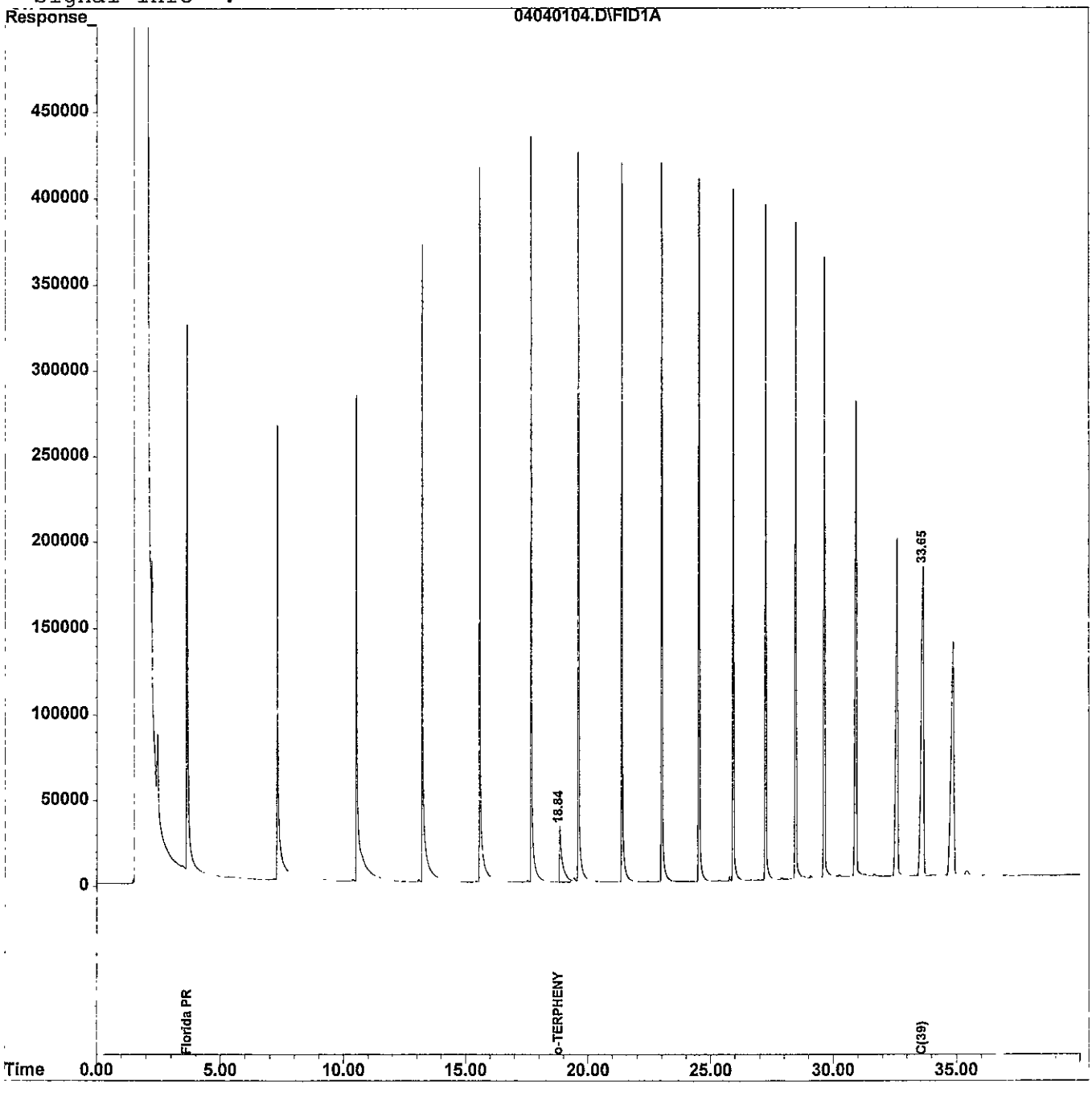
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\2\DATA\040401\04040104.D Vial: 4
Acq On : 4 Apr 2001 10:17 Operator: RL
Sample : 4250PHS PRO CCV Inst : DRO-B
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Apr 4 11:20 2001 Quant Results File: PRO0322.RES

Quant Method : C:\HPCHEM\2\METHODS\PRO0322.M (Chemstation Integrator)
Title : FLORIDA PRO BY GC; INST. #2
Last Update : Tue Jan 02 11:40:23 2001
Response via : Multiple Level Calibration
DataAcq Meth : PRO0322.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\040301\04030105.D Vial: 5
Acq On : 3 Apr 2001 11:15 Operator: BP
Sample : MS 10502W Inst : DRO-B
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Apr 3 12:06 2001 Quant Results File: PRO0322.RES

Quant Method : C:\HPCHEM\2\METHODS\PRO0322.M (Chemstation Integrator)
Title : FLORIDA PRO BY GC; INST. #2
Last Update : Tue Jan 02 11:40:23 2001
Response via : Initial Calibration
DataAcq Meth : PRO0322.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) SC o-TERPHENYL	18.97f	194049	4.018 ug/mlm
Spiked Amount 50.000	Recovery =		8.04%
3) SC C(39)	33.56	2015705	46.411 ug/mlm
Spiked Amount 300.000	Recovery =		15.47%
Target Compounds			
1) HM Florida PRO	3.70	1306079039	23769.322 ug/ml

Conc. lower than native Sample.

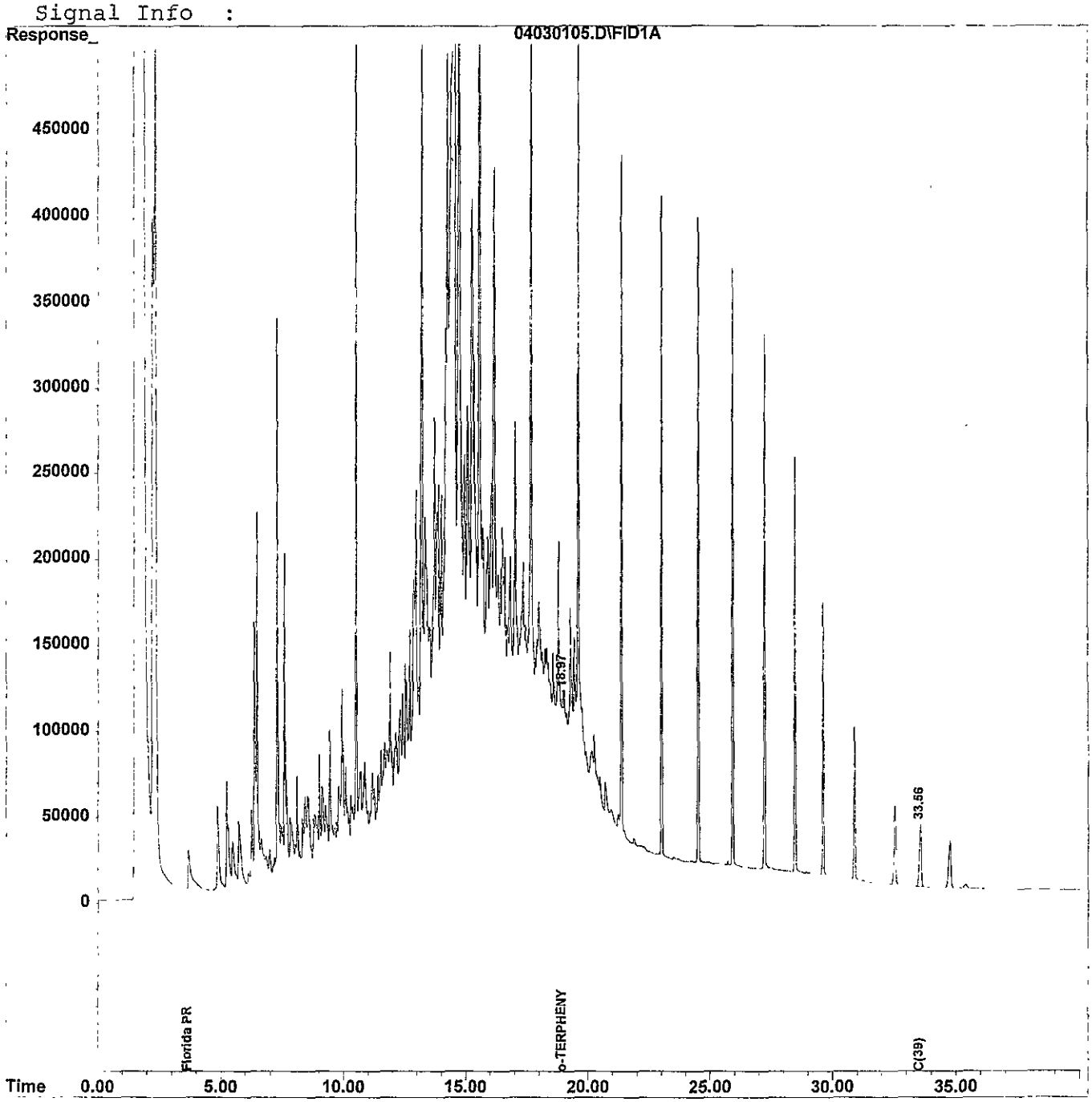
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\2\DATA\040301\04030105.D Vial: 5
Acq On : 3 Apr 2001 11:15 Operator: BP
Sample : MS 10502W Inst : DRO-B
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Apr 3 12:06 2001 Quant Results File: PRO0322.RES

Quant Method : C:\HPCHEM\2\METHODS\PRO0322.M (Chemstation Integrator)
Title : FLORIDA PRO BY GC; INST. #2
Last Update : Tue Jan 02 11:40:23 2001
Response via : Multiple Level Calibration
DataAcq Meth : PRO0322.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\040301\04030106.D Vial: 6
Acq On : 3 Apr 2001 12:03 Operator: BP
Sample : MSD 10502W Inst : DRO-B
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Apr 3 12:52 2001 Quant Results File: PRO0322.RES

Quant Method : C:\HPCHEM\2\METHODS\PRO0322.M (Chemstation Integrator)
Title : FLORIDA PRO BY GC; INST. #2
Last Update : Tue Jan 02 11:40:23 2001
Response via : Initial Calibration
DataAcq Meth : PRO0322.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) SC o-TERPHENYL	18.95	158438	3.280 ug/mlm
Spiked Amount 50.000	Recovery =		6.56%
3) SC C(39)	33.55	1753663	40.378 ug/mlm
Spiked Amount 300.000	Recovery =		13.46%
Target Compounds			
1) HM Florida PRO	3.70	1106597005	20138.950 ug/ml

Conc. lower than native sample

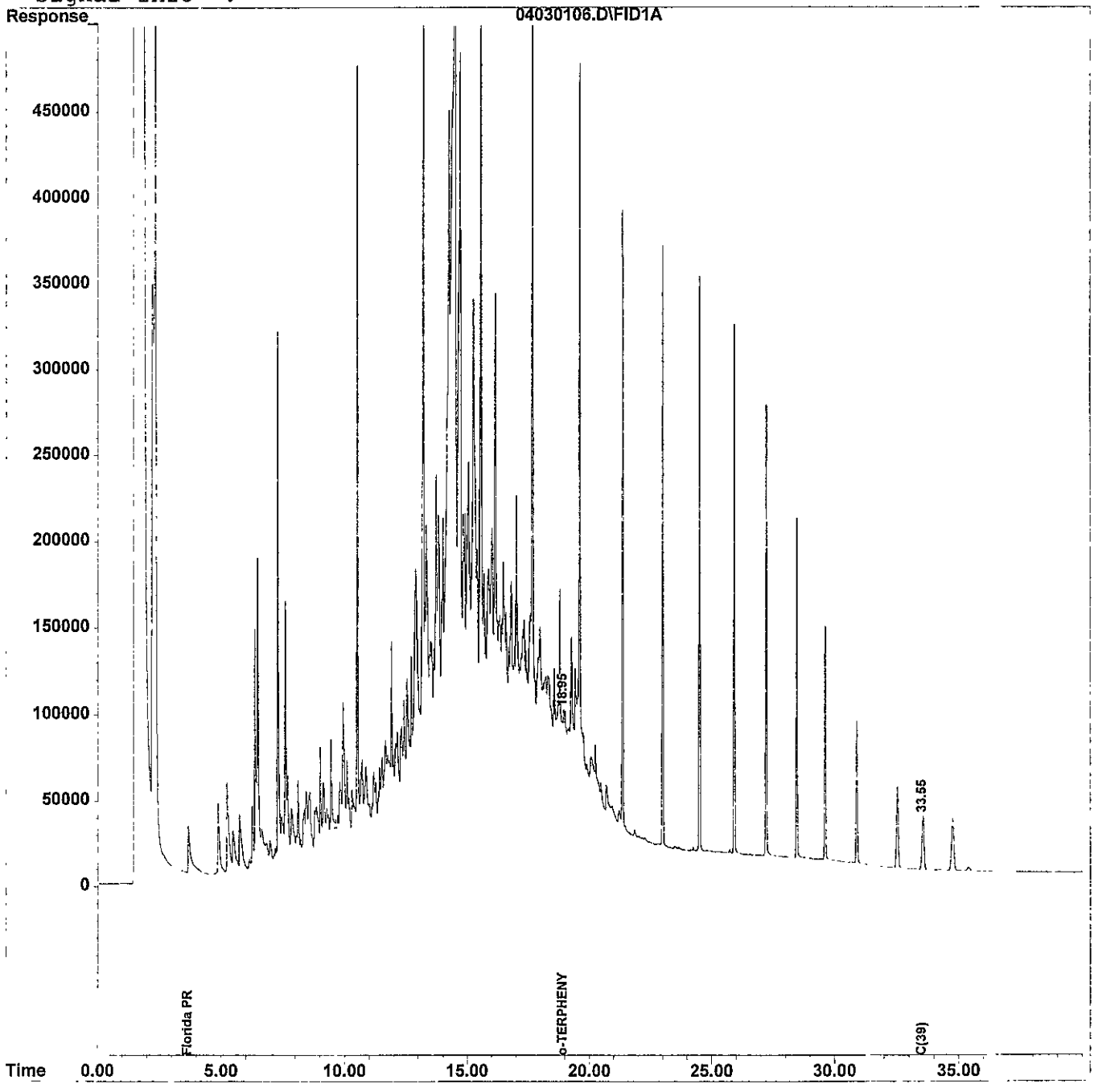
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\2\DATA\040301\04030106.D Vial: 6
Acq On : 3 Apr 2001 12:03 Operator: BP
Sample : MSD 10502W Inst : DRO-B
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Apr 3 12:52 2001 Quant Results File: PRO0322.RES

Quant Method : C:\HPCHEM\2\METHODS\PRO0322.M (Chemstation Integrator)
Title : FLORIDA PRO BY GC; INST. #2
Last Update : Tue Jan 02 11:40:23 2001
Response via : Multiple Level Calibration
DataAcq Meth : PRO0322.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\040301\04030108.D Vial: 8
Acq On : 3 Apr 2001 13:40 Operator: BP
Sample : 10502W Inst : DRO-B
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Apr 4 7:02 2001 Quant Results File: PRO0322.RES

Quant Method : C:\HPCHEM\2\METHODS\PRO0322.M (Chemstation Integrator)
Title : FLORIDA PRO BY GC; INST. #2
Last Update : Tue Jan 02 11:40:23 2001
Response via : Initial Calibration
DataAcq Meth : PRO0322.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) SC o-TERPHENYL	18.97f	177989	3.685 ug/mlm
Spiked Amount 50.000	Recovery =	7.37%	
3) SC C(39)	33.60	6012063	138.427 ug/mlm
Spiked Amount 300.000	Recovery =	46.14%	
Target Compounds			
1) HM Florida PRO	3.70	1342063521	24424.203 ug/ml

File only

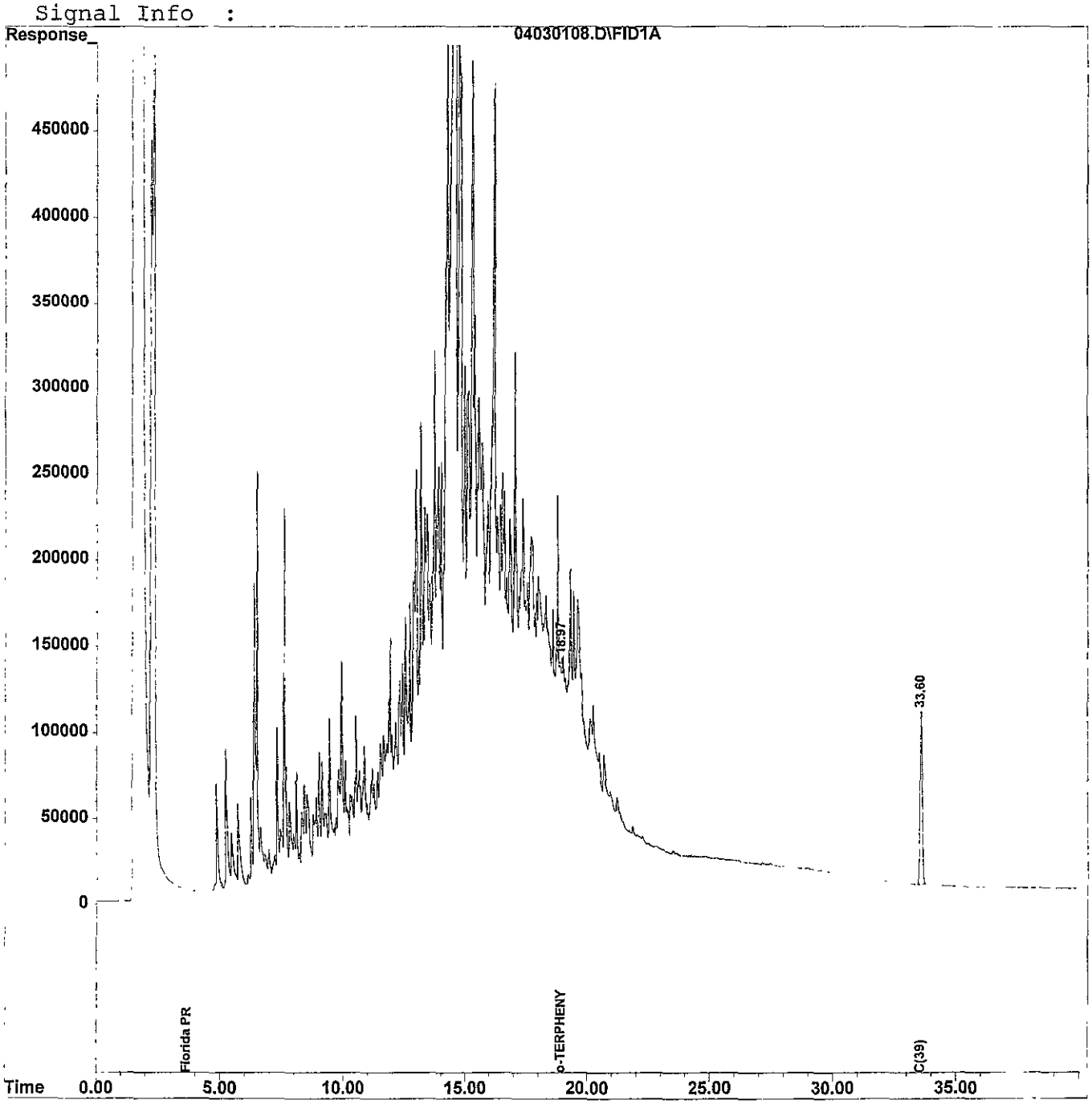
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\2\DATA\040301\04030108.D Vial: 8
Acq On : 3 Apr 2001 13:40 Operator: BP
Sample : 10502W Inst : DRO-B
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Apr 4 7:02 2001 Quant Results File: PRO0322.RES

Quant Method : C:\HPCHEM\2\METHODS\PRO0322.M (Chemstation Integrator)
Title : FLORIDA PRO BY GC; INST. #2
Last Update : Tue Jan 02 11:40:23 2001
Response via : Multiple Level Calibration
DataAcq Meth : PRO0322.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\040301\04030107.D Vial: 7
Acq On : 3 Apr 2001 12:51 Operator: BP
Sample : 10497W Inst : DRO-B
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Apr 3 13:37 2001 Quant Results File: PRO0322.RES

Quant Method : C:\HPCHEM\2\METHODS\PRO0322.M (Chemstation Integrator)
Title : FLORIDA PRO BY GC; INST. #2
Last Update : Tue Jan 02 11:40:23 2001
Response via : Initial Calibration
DataAcq Meth : PRO0322.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) SC o-TERPHENYL	18.84f	2327895	48.199 ug/mlm
Spiked Amount 50.000	Recovery =		96.40%
3) SC C(39)	33.62	7462300	171.818 ug/mlm
Spiked Amount 300.000	Recovery =		57.27%
Target Compounds			
1) HM Florida PRO	3.70	53446202	972.667 / 1000 ug/ml = 0.97 JB

< DL J

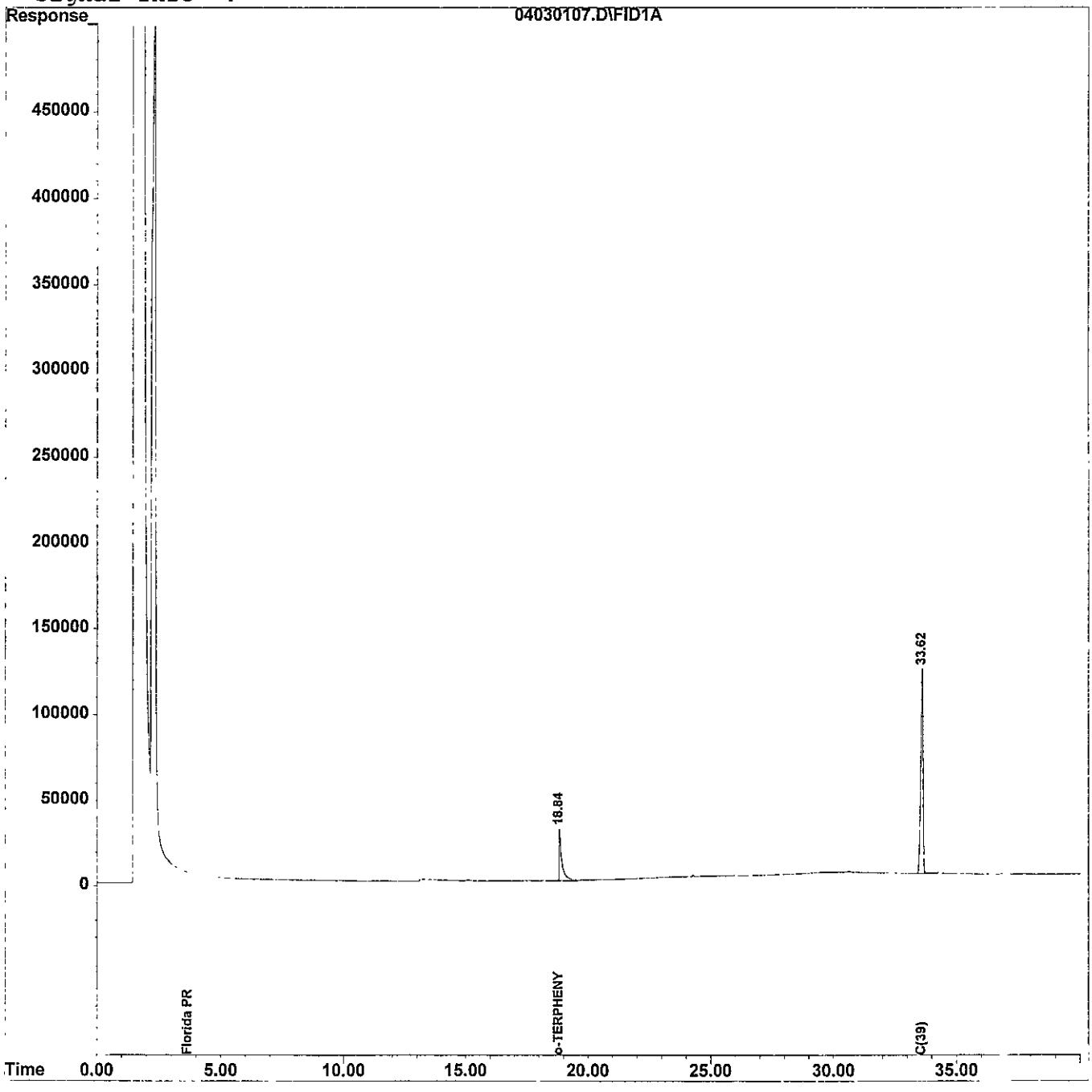
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\2\DATA\040301\04030107.D Vial: 7
Acq On : 3 Apr 2001 12:51 Operator: BP
Sample : 10497W Inst : DRO-B
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Apr 3 13:37 2001 Quant Results File: PRO0322.RES

Quant Method : C:\HPCHEM\2\METHODS\PRO0322.M (Chemstation Integrator)
Title : FLORIDA PRO BY GC; INST. #2
Last Update : Tue Jan 02 11:40:23 2001
Response via : Multiple Level Calibration
DataAcq Meth : PRO0322.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\040301\04030109.D Vial: 9
Acq On : 3 Apr 2001 14:28 Operator: BP
Sample : 10498W Inst : DRO-B
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Apr 4 7:04 2001 Quant Results File: PRO0322.RES

Quant Method : C:\HPCHEM\2\METHODS\PRO0322.M (Chemstation Integrator)
Title : FLORIDA PRO BY GC; INST. #2
Last Update : Tue Jan 02 11:40:23 2001
Response via : Initial Calibration
DataAcq Meth : PRO0322.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) SC o-TERPHENYL	18.83f	1448317	29.987 ug/mlm
Spiked Amount 50.000	Recovery =		59.97%
3) SC C(39)	33.58	4688166	107.944 ug/mlm
Spiked Amount 300.000	Recovery =		35.98%
Target Compounds			
1) HM Florida PRO	3.70	47861308	871.028 ug/ml

$\frac{871.028}{1000} = 0.87$ JB

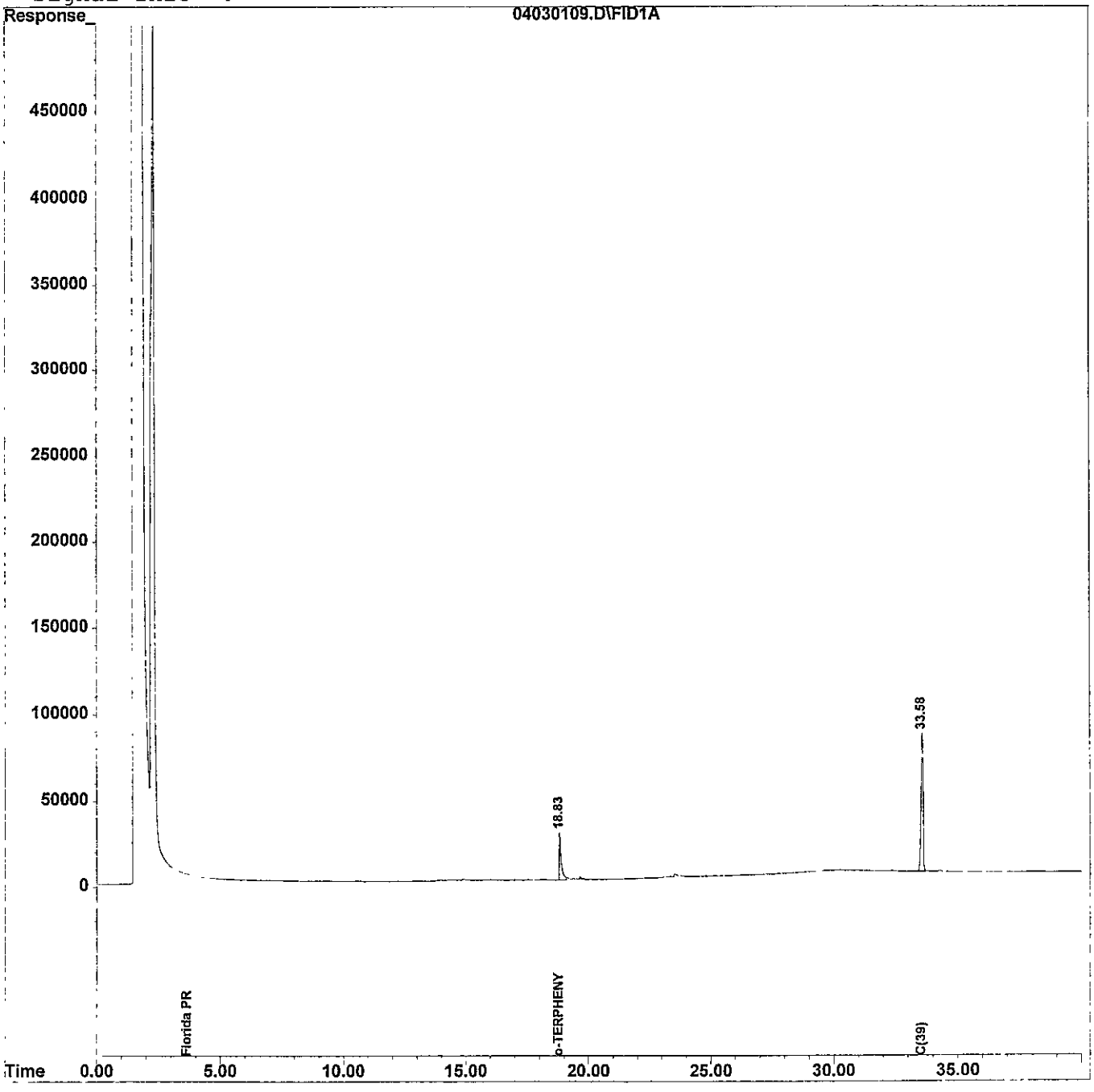
(f)=RT Delta > 1/2 Window (m)=manual int.
04030109.D PRO0322.M Wed Apr 04 07:09:56 2001 Page 1

Quantitation Report

Data File : C:\HPCHEM\2\DATA\040301\04030109.D Vial: 9
Acq On : 3 Apr 2001 14:28 Operator: BP
Sample : 10498W Inst : DRO-B
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Apr 4 7:04 2001 Quant Results File: PRO0322.RES

Quant Method : C:\HPCHEM\2\METHODS\PRO0322.M (Chemstation Integrator)
Title : FLORIDA PRO BY GC; INST. #2
Last Update : Tue Jan 02 11:40:23 2001
Response via : Multiple Level Calibration
DataAcq Meth : PRO0322.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\040301\04030110.D Vial: 10
Acq On : 3 Apr 2001 15:17 Operator: BP
Sample : 10499W Inst : DRO-B
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Apr 4 7:04 2001 Quant Results File: PRO0322.RES

Quant Method : C:\HPCHEM\2\METHODS\PRO0322.M (Chemstation Integrator)
Title : FLORIDA PRO BY GC; INST. #2
Last Update : Tue Jan 02 11:40:23 2001
Response via : Initial Calibration
DataAcq Meth : PRO0322.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) SC o-TERPHENYL	18.85f	1366984	28.303 ug/mlm
Spiked Amount 50.000	Recovery =		56.61%
3) SC C(39)	33.61	7249794	166.925 ug/mlm
Spiked Amount 300.000	Recovery =		55.64%
Target Compounds			
1) HM Florida PRO	3.70	41411307	753.644 ug/ml

753.644 / 1000 = 0.75 JB

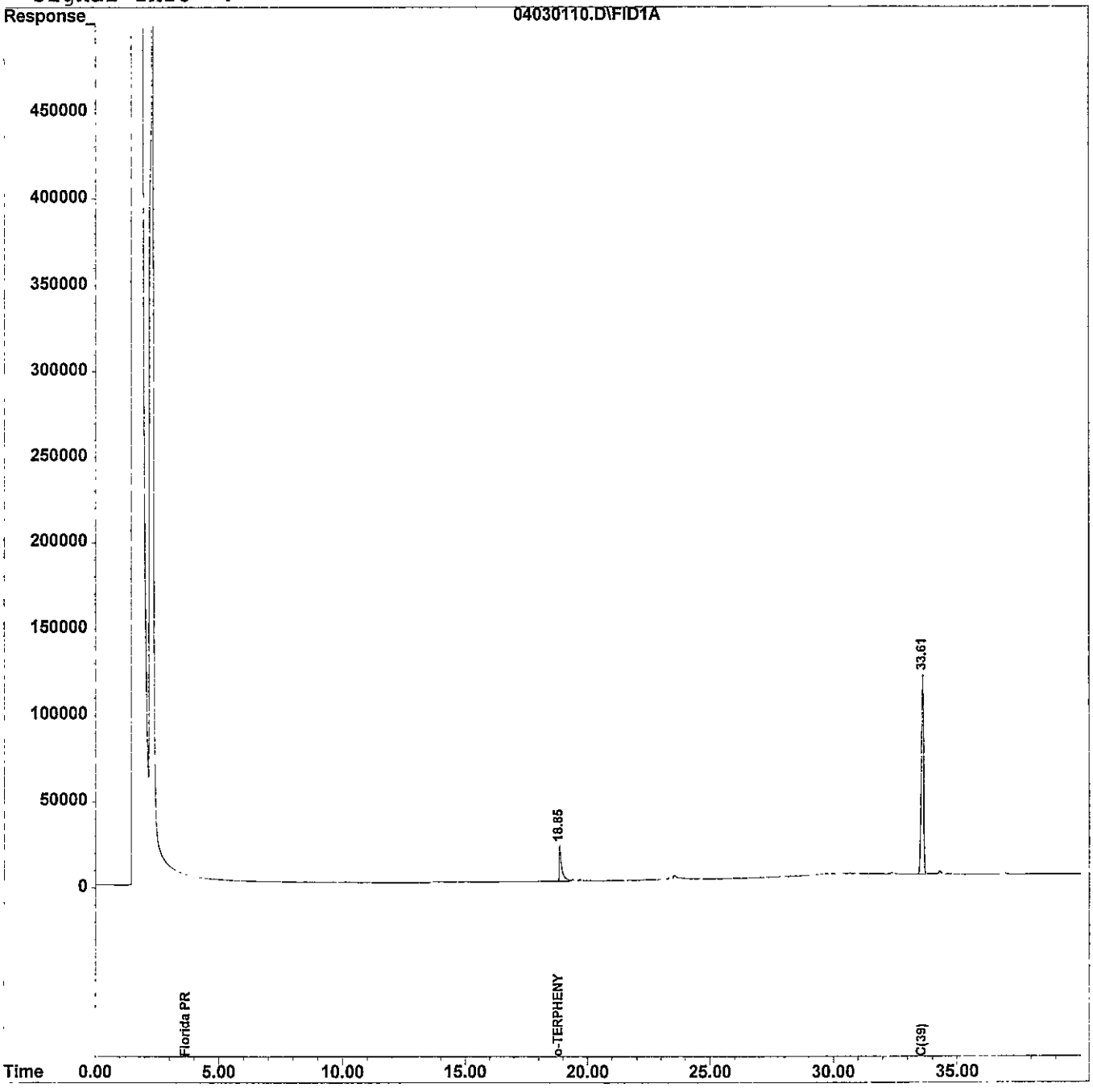
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\2\DATA\040301\04030110.D Vial: 10
Acq On : 3 Apr 2001 15:17 Operator: BP
Sample : 10499W Inst : DRO-B
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Apr 4 7:04 2001 Quant Results File: PRO0322.RES

Quant Method : C:\HPCHEM\2\METHODS\PRO0322.M (Chemstation Integrator)
Title : FLORIDA PRO BY GC; INST. #2
Last Update : Tue Jan 02 11:40:23 2001
Response via : Multiple Level Calibration
DataAcq Meth : PRO0322.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\040301\04030111.D Vial: 11
Acq On : 3 Apr 2001 16:05 Operator: BP
Sample : 10500W Inst : DRO-B
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Apr 4 7:05 2001 Quant Results File: PRO0322.RES

Quant Method : C:\HPCHEM\2\METHODS\PRO0322.M (Chemstation Integrator)
Title : FLORIDA PRO BY GC; INST. #2
Last Update : Tue Jan 02 11:40:23 2001
Response via : Initial Calibration
DataAcq Meth : PRO0322.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) SC o-TERPHENYL	18.82f	1709110	35.387 ug/mlm
Spiked Amount 50.000	Recovery = 70.77%		
3) SC C(39)	33.60	6818423	156.993 ug/mlm
Spiked Amount 300.000	Recovery = 52.33%		
Target Compounds			
1) HM Florida PRO	3.70	70593534	1284.731 ug/ml

RL 04.05.01
1284.731 / 1000 = 1.3 ppb

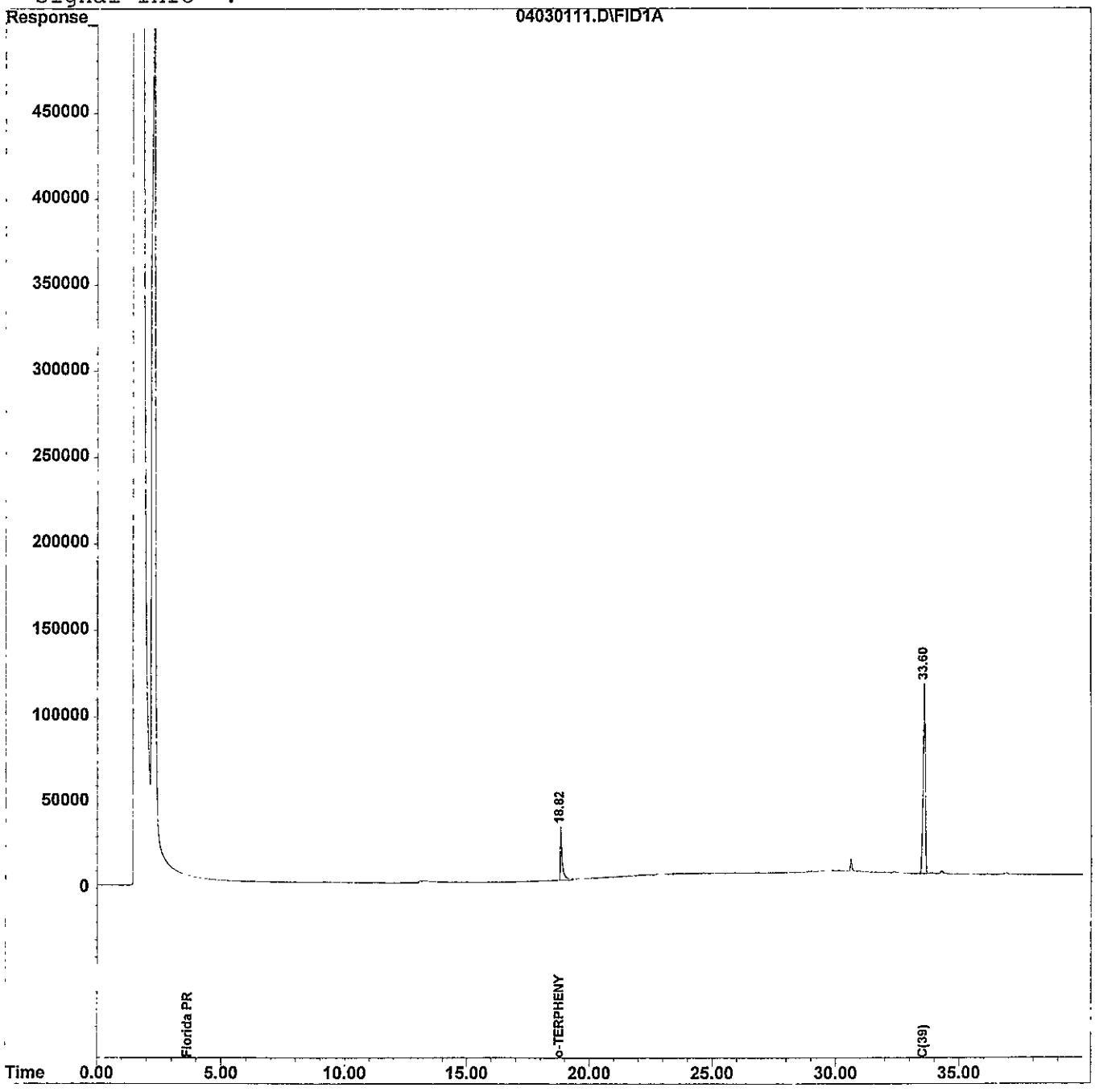
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\2\DATA\040301\04030111.D Vial: 11
Acq On : 3 Apr 2001 16:05 Operator: BP
Sample : 10500W Inst : DRO-B
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Apr 4 7:05 2001 Quant Results File: PRO0322.RES

Quant Method : C:\HPCHEM\2\METHODS\PRO0322.M (Chemstation Integrator)
Title : FLORIDA PRO BY GC; INST. #2
Last Update : Tue Jan 02 11:40:23 2001
Response via : Multiple Level Calibration
DataAcq Meth : PRO0322.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\040301\04030112.D Vial: 12
Acq On : 3 Apr 2001 16:54 Operator: BP
Sample : 10501W Inst : DRO-B
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Apr 4 7:06 2001 Quant Results File: PRO0322.RES

Quant Method : C:\HPCHEM\2\METHODS\PRO0322.M (Chemstation Integrator)
Title : FLORIDA PRO BY GC; INST. #2
Last Update : Tue Jan 02 11:40:23 2001
Response via : Initial Calibration
DataAcq Meth : PRO0322.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc	Units
System Monitoring Compounds				
2) SC o-TERPHENYL	18.88	1455100	30.128	ug/mlm
Spiked Amount 50.000	Recovery = 60.26%			
3) SC C(39)	33.58	4844534	111.545	ug/mlm
Spiked Amount 300.000	Recovery = 37.18%			
Target Compounds				
1) HM Florida PRO	3.70	36445960	663.280	ug/ml

$\frac{663.280}{1000} = 0.66$ JB

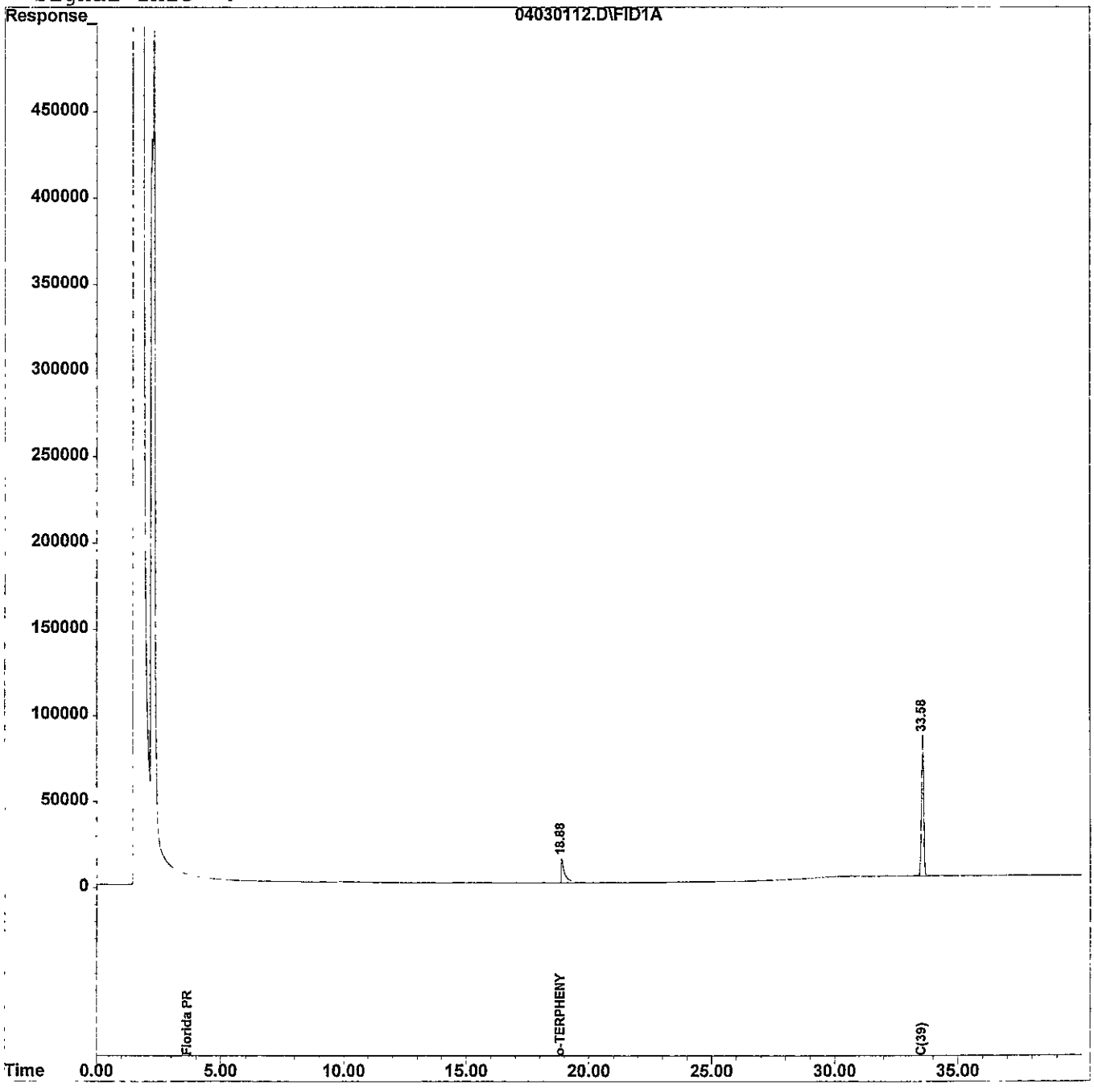
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\2\DATA\040301\04030112.D Vial: 12
Acq On : 3 Apr 2001 16:54 Operator: BP
Sample : 10501W Inst : DRO-B
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Apr 4 7:06 2001 Quant Results File: PRO0322.RES

Quant Method : C:\HPCHEM\2\METHODS\PRO0322.M (Chemstation Integrator)
Title : FLORIDA PRO BY GC; INST. #2
Last Update : Tue Jan 02 11:40:23 2001
Response via : Multiple Level Calibration
DataAcq Meth : PRO0322.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\040401\04040103.D Vial: 3
Acq On : 4 Apr 2001 9:29 Operator: RL
Sample : 10502W 10X Inst : DRO-B
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Apr 5 6:52 2001 Quant Results File: PRO0322.RES

Quant Method : C:\HPCHEM\2\METHODS\PRO0322.M (Chemstation Integrator)
Title : FLORIDA PRO BY GC; INST. #2
Last Update : Tue Jan 02 11:40:23 2001
Response via : Initial Calibration
DataAcq Meth : PRO0322.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) SC o-TERPHENYL	18.80f	198827	4.117 ug/mlm
Spiked Amount 50.000	Recovery =		8.23% x10 = 41.3 = 82
3) SC C(39)	33.53	506127	11.654 ug/mlm
Spiked Amount 300.000	Recovery =		3.88% x10 = 16.5 = 39
Target Compounds			
1) HM Florida PRO	3.70	108152704	1968.270 ug/ml

1968.270 / 1000 x10 = 20

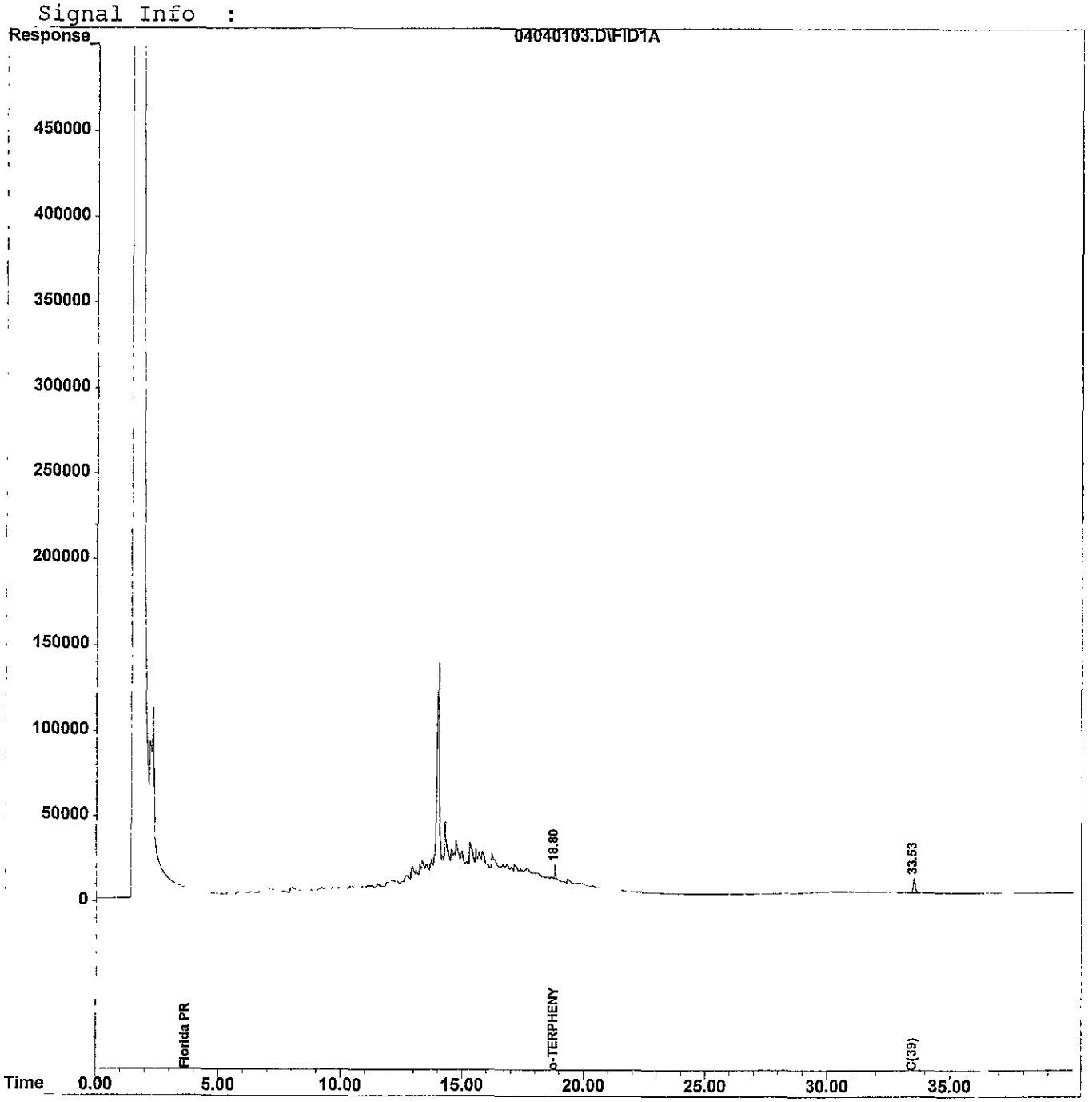
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\2\DATA\040401\04040103.D Vial: 3
Acq On : 4 Apr 2001 9:29 Operator: RL
Sample : 10502W 10X Inst : DRO-B
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Apr 5 6:52 2001 Quant Results File: PRO0322.RES

Quant Method : C:\HPCHEM\2\METHODS\PRO0322.M (Chemstation Integrator)
Title : FLORIDA PRO BY GC; INST. #2
Last Update : Tue Jan 02 11:40:23 2001
Response via : Multiple Level Calibration
DataAcq Meth : PRO0322.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\040301\04030115.D Vial: 15
Acq On : 3 Apr 2001 19:19 Operator: BP
Sample : 10503W Inst : DRO-B
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Apr 4 7:07 2001 Quant Results File: PRO0322.RES

Quant Method : C:\HPCHEM\2\METHODS\PRO0322.M (Chemstation Integrator)
Title : FLORIDA PRO BY GC; INST. #2
Last Update : Tue Jan 02 11:40:23 2001
Response via : Initial Calibration
DataAcq Meth : PRO0322.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) SC o-TERPHENYL	18.93	1441187	29.840 ug/mlm
Spiked Amount 50.000	Recovery =		59.68%
3) SC C(39)	33.59	4374465	100.721 ug/mlm
Spiked Amount 300.000	Recovery =		33.57%
Target Compounds			
1) HM Florida PRO	3.70	24296499	442.172 ug/ml

$\frac{442.172}{1000} = 0.44$ JB

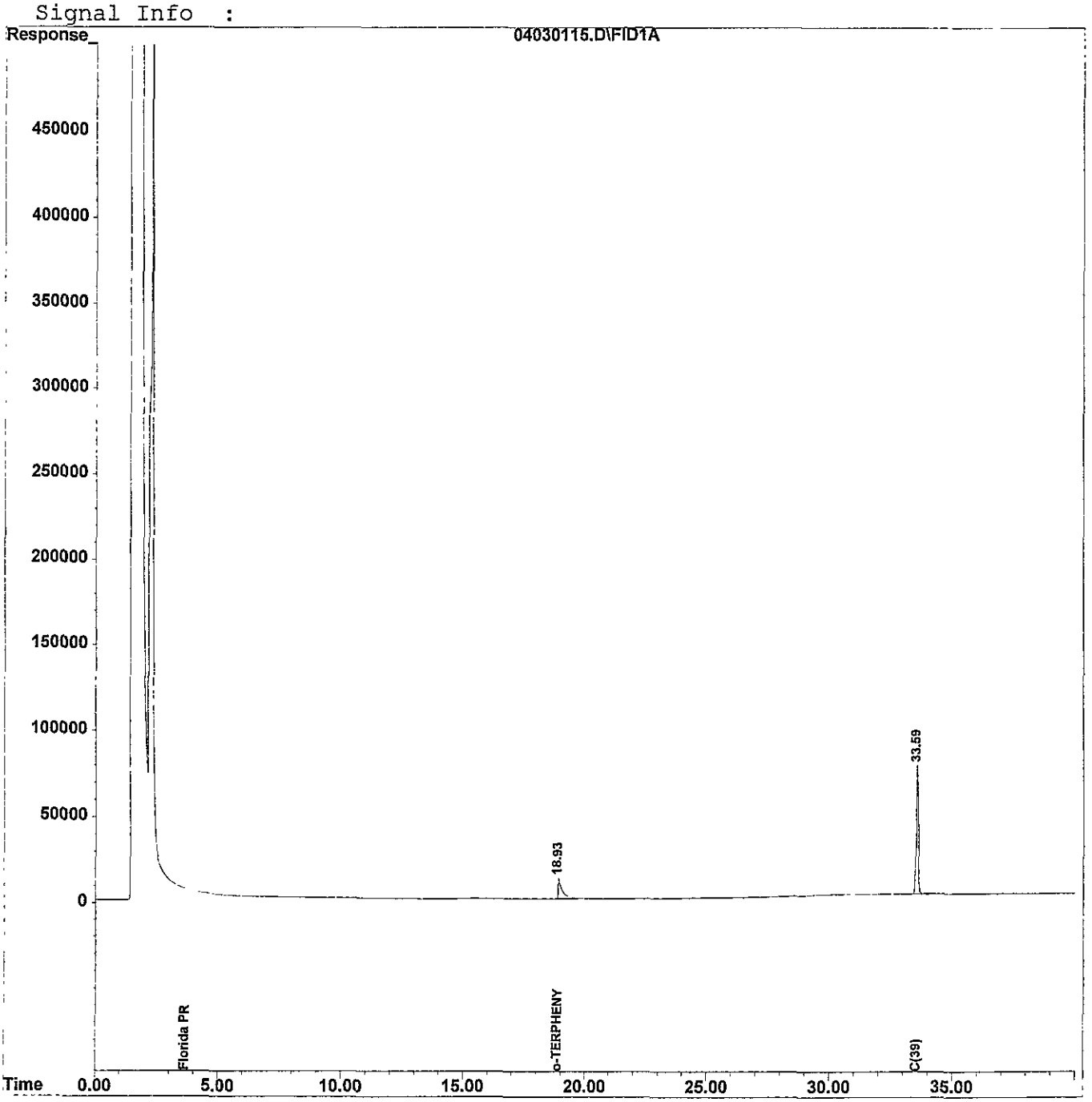
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\2\DATA\040301\04030115.D Vial: 15
Acq On : 3 Apr 2001 19:19 Operator: BP
Sample : 10503W Inst : DRO-B
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Apr 4 7:07 2001 Quant Results File: PRO0322.RES

Quant Method : C:\HPCHEM\2\METHODS\PRO0322.M (Chemstation Integrator)
Title : FLORIDA PRO BY GC; INST. #2
Last Update : Tue Jan 02 11:40:23 2001
Response via : Multiple Level Calibration
DataAcq Meth : PRO0322.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\040301\04030116.D Vial: 16
Acq On : 3 Apr 2001 20:07 Operator: BP
Sample : 10504W Inst : DRO-B
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Apr 4 7:08 2001 Quant Results File: PRO0322.RES

Quant Method : C:\HPCHEM\2\METHODS\PRO0322.M (Chemstation Integrator)
Title : FLORIDA PRO BY GC; INST. #2
Last Update : Tue Jan 02 11:40:23 2001
Response via : Initial Calibration
DataAcq Meth : PRO0322.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) SC o-TERPHENYL	18.92	2284590	47.302 ug/mlm
Spiked Amount 50.000	Recovery =		94.60%
3) SC C(39)	33.59	4558832	104.966 ug/mlm
Spiked Amount 300.000	Recovery =		34.99%
Target Compounds			
1) HM Florida PRO	3.70	25705092	467.807 ug/ml

$\frac{467.807}{1000} = 0.47$ JB

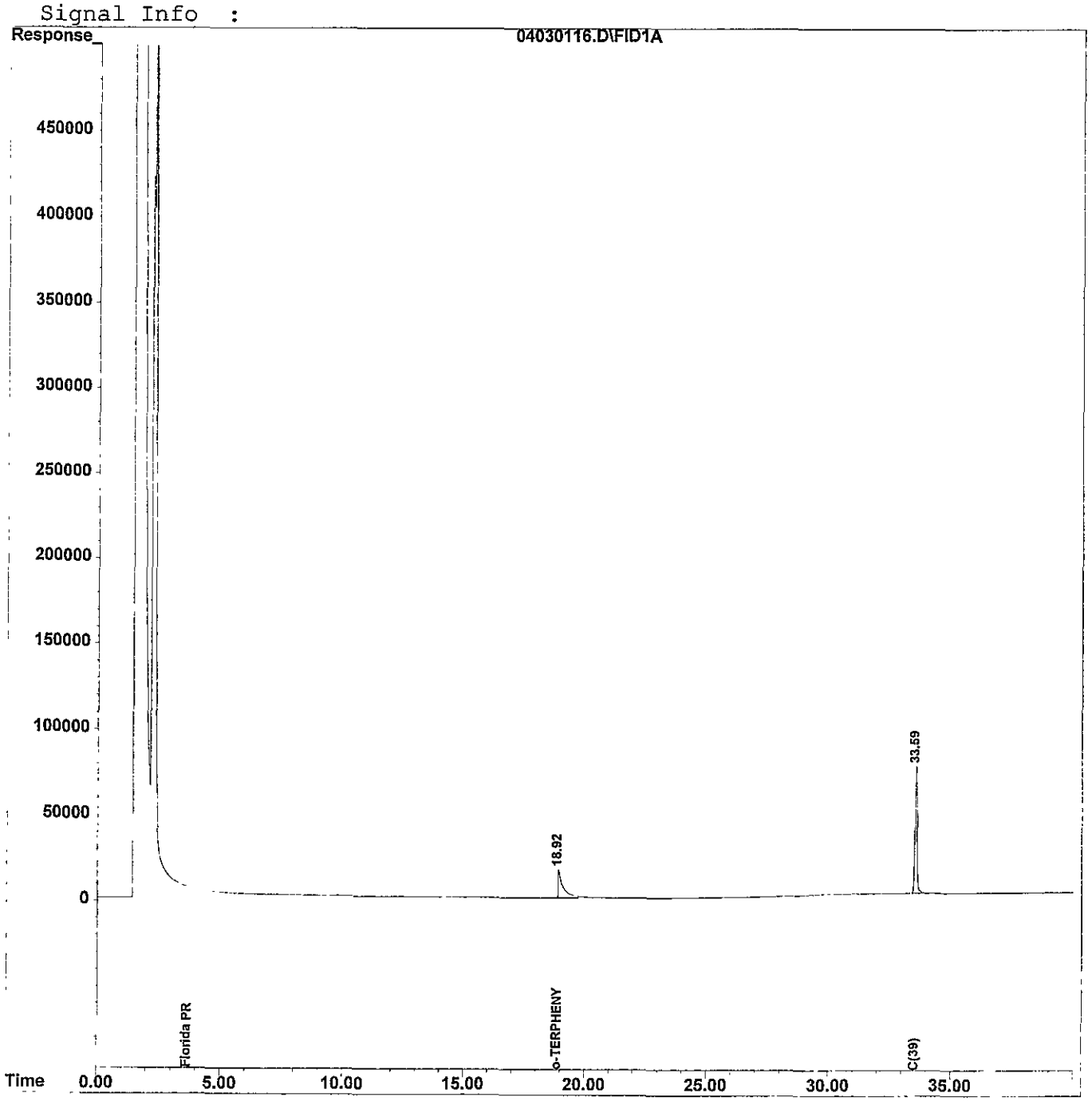
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\2\DATA\040301\04030116.D Vial: 16
Acq On : 3 Apr 2001 20:07 Operator: BP
Sample : 10504W Inst : DRO-B
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Apr 4 7:08 2001 Quant Results File: PRO0322.RES

Quant Method : C:\HPCHEM\2\METHODS\PRO0322.M (Chemstation Integrator)
Title : FLORIDA PRO BY GC; INST. #2
Last Update : Tue Jan 02 11:40:23 2001
Response via : Multiple Level Calibration
DataAcq Meth : PRO0322.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\040301\04030103.D Vial: 3
Acq On : 3 Apr 2001 9:38 Operator: BP
Sample : QFW0401011 Inst : DRO-B
Misc : PRO BLANK Multiplr: 1.00
IntFile : events.e
Quant Time: Apr 4 6:50 2001 Quant Results File: PRO0322.RES

Quant Method : C:\HPCHEM\2\METHODS\PRO0322.M (Chemstation Integrator)
Title : FLORIDA PRO BY GC; INST. #2
Last Update : Tue Jan 02 11:40:23 2001
Response via : Initial Calibration
DataAcq Meth : PRO0322.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) SC o-TERPHENYL	19.00f	2392778	49.542 ug/mlm
Spiked Amount 50.000	Recovery =	99.08%	
3) SC C(39)	33.61	5049308	116.260 ug/mlm
Spiked Amount 300.000	Recovery =	38.75%	
Target Compounds			
1) HM Florida PRO	3.70	25417370	462.571 ug/ml

462.571 / 1000 = 0.46J

2 1/2 DL

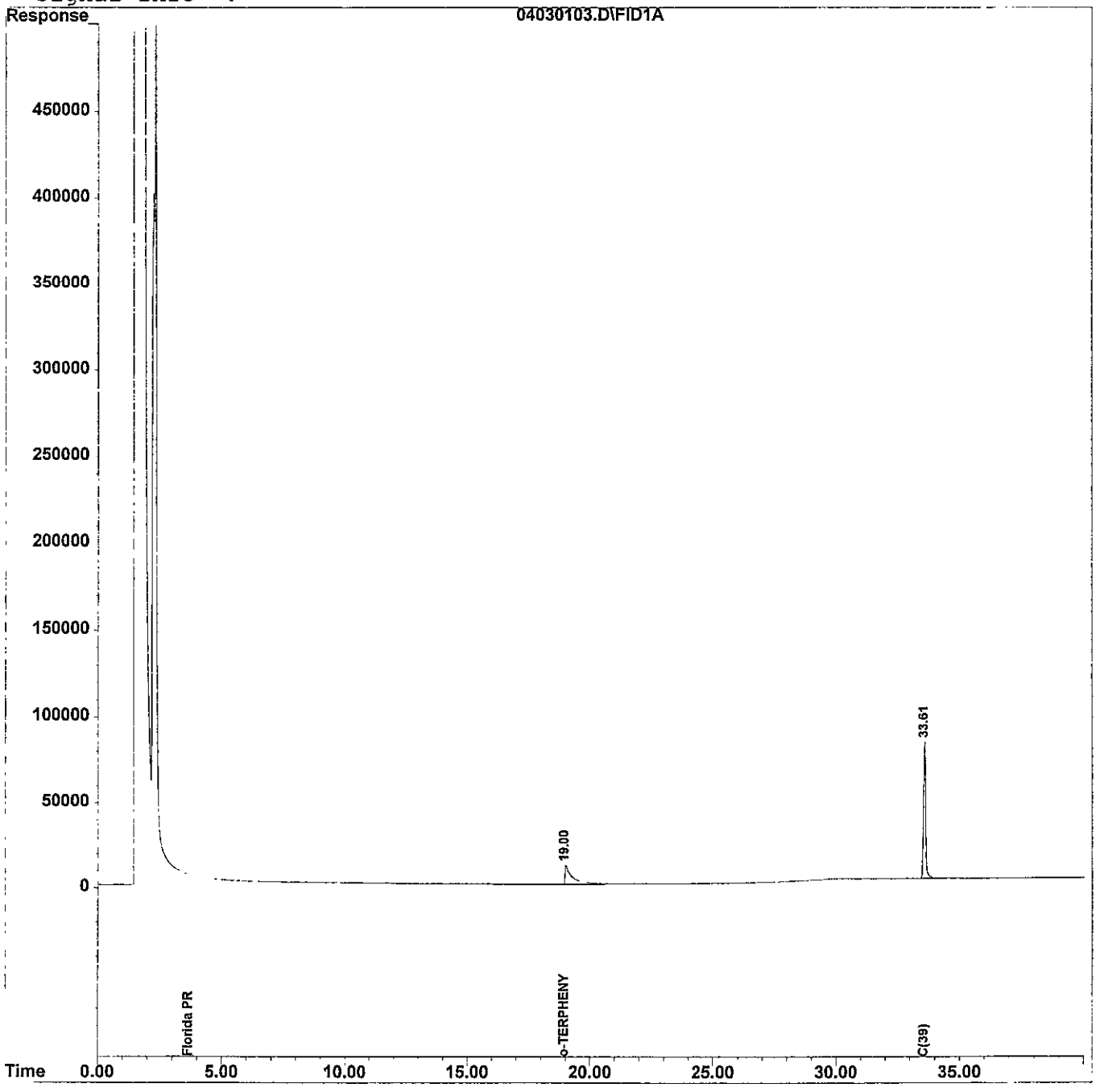
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\2\DATA\040301\04030103.D Vial: 3
Acq On : 3 Apr 2001 9:38 Operator: BP
Sample : QFW0401011 Inst : DRO-B
Misc : PRO BLANK Multiplr: 1.00
IntFile : events.e
Quant Time: Apr 4 6:50 2001 Quant Results File: PRO0322.RES

Quant Method : C:\HPCHEM\2\METHODS\PRO0322.M (Chemstation Integrator)
Title : FLORIDA PRO BY GC; INST. #2
Last Update : Tue Jan 02 11:40:23 2001
Response via : Multiple Level Calibration
DataAcq Meth : PRO0322.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\040301\04030104.D Vial: 4
Acq On : 3 Apr 2001 10:26 Operator: BP
Sample : QFW0401012 Inst : DRO-B
Misc : PRO LCS Multiplr: 1.00
IntFile : events.e
Quant Time: Apr 3 11:33 2001 Quant Results File: PRO0322.RES

Quant Method : C:\HPCHEM\2\METHODS\PRO0322.M (Chemstation Integrator)
Title : FLORIDA PRO BY GC; INST. #2
Last Update : Tue Jan 02 11:40:23 2001
Response via : Initial Calibration
DataAcq Meth : PRO0322.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) SC o-TERPHENYL	18.90	2018390	41.791 ug/mlm
Spiked Amount 50.000	Recovery =		83.58%
3) SC C(39)	33.57	2393520	55.110 ug/mlm
Spiked Amount 300.000	Recovery =		18.37%
Target Compounds			
1) HM Florida PRO	3.70	166946979	3038.267 ug/ml

$\frac{3038.267}{4250} = 71\%$

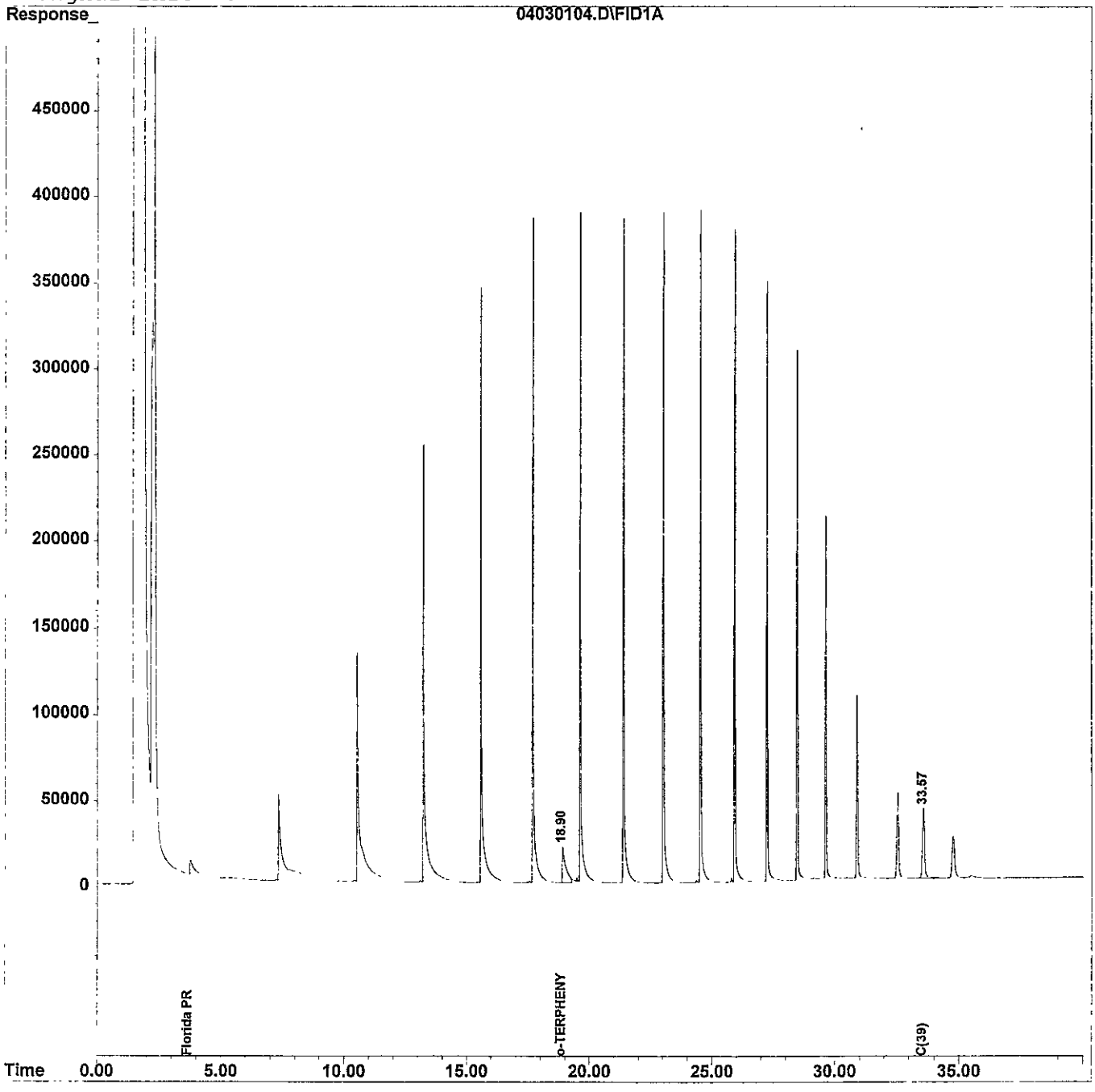
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\2\DATA\040301\04030104.D Vial: 4
Acq On : 3 Apr 2001 10:26 Operator: BP
Sample : QFW0401012 Inst : DRO-B
Misc : PRO LCS Multiplr: 1.00
IntFile : events.e
Quant Time: Apr 3 11:33 2001 Quant Results File: PRO0322.RES

Quant Method : C:\HPCHEM\2\METHODS\PRO0322.M (Chemstation Integrator)
Title : FLORIDA PRO BY GC; INST. #2
Last Update : Tue Jan 02 11:40:23 2001
Response via : Multiple Level Calibration
DataAcq Meth : PRO0322.M

Volume Inj. :
Signal Phase :
Signal Info :



Accura Analytical Laboratory, Inc.

LCS Report

Sample ID:	QFW0401012	**Date Acquired:**	4/3/01
Operator:	RL	**Instrument ID:**	DRO-B
Data File:	04030104	**AS POS.#**	4
Method:	FL-PRO	**Matrix:**	WATER

Compound	Expected Rec. (ppm)	Actual Rec. (ppm)	Percent Recovery	Recovery Limits (%)	Pass/ Fail
PRO	4.25	3.038	71 %	55 - 118	Pass

Surrogates	Expected Rec. (ppm)	Actual Rec. (ppm)	Percent Recovery	Recovery Limits (%)	Pass/ Fail
ortho-terphenyl	50	41.79	84%	82 - 142	Pass
C(39)	300	55.11	18%	42 - 193	Fail

Accura Analytical Laboratory, Inc.

6017 Financial Drive, Norcross, GA 30071

GC/MS VOLATILE INSTRUMENT C RUNLOG

Date: 4-3-01
Calib. File: 04020125.m
ACQ. Method: 04030125.m
BFB Std ID #: V01018

Internal Standard ID #: V01014
Surrogate Standard ID #: V01015
Calib.Standard ID #: V01034, V01028
LCS/MS Standard ID #: —

GC Conditions
BFB: 80°C-10°C/10min-155°C
Samples: 40°C(4m)-8°C/min-180°C(2m)

	CCV IS RT	CV IS Areas
#1	6.97	667440
#2	12.33	856561
#3	15.57	335518

Surrogate Limits

	DCE	TOL-d8	BFB
QC	78-114	88-106	85-111
Sample	78-124	84-108	86-112

MS Conditions
EMV: 1800
Tune File: BFB01.m
Scan Delay: 0.5 min

File Name	Project ID	Lab Sam. ID	Client Sam. ID	Matrix	Volume	DF	ALS #	pH	-Cl	Inj.Time	Comments
C 19211	QC	BFB 50ng	—	—	2ml	—	—	—	—	08:33	
C 19212		Icv/ccv 10ppb	—	W	25ml	1	1	—	—	856	
C 19213		Blank	—			1	2	—	—	936	
C 19214		LCS	—			1	3	—	—	1049	
C 19215	27389	AC10333	—			1	4	1	X	1132	
C 19216		AC10334	—			1	5	1	X	1157	
C 19217	27418	AC10517	—			1	6	1	X	1222	
C 19218		AC10518	—			1	14	1	X	1248	
C 19219		AC10519	—			1	15	1	X	1314	
C 19220		AC10520	—			1	16	1	X	1339	
C 19221		AC10521	—			1	1	1	X	1405	
C 19222		AC10522	—			1	2	1	X	1430	RI
C 19223		AC10523	—			1	3	1	X	1456	
C 19224	27440	AC10652	—			1	4	1	X	1521	
C 19225	27448	AC10690	—			1	5	1	X	1547	
C 19226		AC10691	—			1	6	1	X	1613	
C 19227	27418	AC10522	—			1	15	1	X	1638	
C 19228	27420	AC10497	—			1	16	1	X	1704	RI
C 19229		AC10498	—			1	1	1	X	1729	
C 19230		AC10500	—			1	2	1	X	1755	
C 19231		AC10499	—			1	3	1	X	1821	
C 19232		AC10501	—			1	4	1	X	1846	
C 19233		AC10502	—			1	5	1	X	1912	
C 19234		AC10503	—			1	6	1	X	1937	
C											
C											
C											

Note: NDIL=Need Dilution NRI=Needs Reinjection MI=Matrix Interferences NC=Needs Concentrated

VRR 4-4-01

Analyst / Date: VRR 4-4-01

Reviewer / Date: _____

Logbook ID: VOC-118

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Accura Analytical Laboratory, Inc.

6017 Financial Drive, Norcross, GA 30071

GC/MS VOLATILE INSTRUMENT C RUNLOG

Date: 4·4·01
Calib. File: 04020125.m
ACQ. Method: 040401 25.m
BFB Std ID #: V0.018

Internal Standard ID #: V0.014
Surrogate Standard ID #: V0.015
Calib.Standard ID #: V0.034, V0.028
LCS/MS Standard ID #: —

GC Conditions
BFB: 80°C-10°C/10min-155°C
Samples: 40°C(4m)-8°C/min-180°C(2m)

	CCV IS RT	CV IS Areas
#1	6.97	623737
#2	12.32	824219
#3	15.56	328616

Surrogate Limits

	DCE	TOL-d8	BFB
QC	78-114	88-106	85-111
Sample	78-124	84-103	86-112

MS Conditions
EMV: 1800
Tune File: BFB01.M
Scan Delay: 0.5 min

File Name	Project ID	Lab Sam. ID	Client Sam. ID	Matrix	Volume	DF	ALS #	pH	-Cl	Inj.Time	Comments
C19235	Ac	BFB 50ng	—	—	2ml	—	—	—	—	1433	
C19236	↓	ccv 10ppb	—	W	25ml	1	1	—	—	1456	
C19237		Blank	—	W	25ml	1	2	—	—	1541	
C19238	↓	LCS	—	W	25ml	1	3	—	—	1622	
C19239	27420	AC10497	—	W	25ml	1	4	1	X	1704	
C19240		AC10504	—	W	25ml	1	5	1	X	1741	
C19241		AC10505	—	W	25ml	1	6	1	X	1807	
C19242		AC10502	MS —	W	25ml	1	14	1	X	1833	
C19243		AC10502	MSD —	W	25ml	1	15	1	X	1858	
C19244		AC10504	—	W	25ml	1	1	1	X	1949	
C19245	↓	AC10505	—	W	25ml	1	2	1	X	2015	
C											
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C											

Note: NDIL=Need Dilution NRI=Needs Reinjection MI=Matrix Interferences NC=Needs Concentrated

VRR

Analyst / Date: VRR 4·5·01

Reviewer / Date: _____

Logbook ID: VOC-118

Accura Analytical Laboratory, Inc.

6017 Financial Drive, Norcross, GA 30071

GC/MS VOLATILE INSTRUMENT C RUNLOG

Date: 4-5-01
Calib. File: 04020125.m
ACQ. Method: 040501125.m
BFB Std ID #: V01018

Internal Standard ID #: V01014
Surrogate Standard ID #: V01015
Calib.Standard ID #: V01034, V01028
LCS/MS Standard ID #: —

GC Conditions
BFB: 80°C-10°C/10min-155°C
Samples: 40°C(4m)-8°C/min-180°C(2m)

	CCV IS RT	CV IS Areas
#1	6.96	499425
#2	12.31	695884
#3	15.55	274442

Surrogate Limits

	DCE	TOL-d8	BFB
QC	78-114	88-106	85-111
Sample	78-124	84-108	86-112

MS Conditions
EMV: 1800
Tune File: BFB01.m
Scan Delay: 0.5 min

File Name	Project ID	Lab Sam. ID	Client Sam. ID	Matrix	Volume	DF	ALS #	pH	-Cl	Inj.Time	Comments
C19246	QC	BFB 50ng	—	—	2ul	—	—	—	—	1329	
C19247	VRR	~~Blank~~	CCV 10ppb	W	25ml	1	1	—	—	1351	
C19248	↓	Blank	—	↓	↓	1	2	—	—	1431	
C19249		Blank	—			1	2	—	—	—	
C19250		Blank	—			1	2	—	—	1552	
C19251		Blank	—			1	3	—	—	1621	
C19252	↓	LCS	—			1	4	—	—	1655	
C19253	27448	AC10690	—			1	5	1	X	1731	
C19254	27420	AC10500	—	↓	↓	1	6	1	X	1757	
C											
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C											

Note: NDIL=Need Dilution NRI=Needs Reinjection MI=Matrix Interferences NC=Needs Concentrated

VRR 4.6.01

Analyst / Date: VRR 4.6.01

Reviewer / Date: _____

Logbook ID: VOC-118

ACCURA ANALYTICAL LABORATORY, INC.

Environmental Analytical Services

VOA SAMPLE BATCHBOOK

Inst. ID: VOA-C **Batch ID:** C040301 25 **Matrix:** water

LCS/BS ID: C19238 **MS ID:** Ac10502 **MSD ID:** Ac10502

	Lab. Proj. #	LIMS ID #	Analysis Date	Comment
1	27420	Ac10497	4/3/01	
2	↓	Ac10498	↓	
3		Ac10499		
4		Ac10500		
5		Ac10501		
6		Ac10502		
7	↓	Ac10503	↓	
8	27420	Ac10504	4/4/01	
9	↓	Ac10505	↓	
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				

Review: _____ **Date:** _____

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\040301\C19228.D Vial: 16
Acq On : 04/03/01 17:04 Operator: JP/VRR
Sample : AC10497 25ml DF=1 Inst : VOA-C
Misc : 27420/C04030125 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 4 9:51 2001 Quant Results File: 04030125.RES

Quant Method : c:\hpchem\1\data\040301\04030125.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Tue Apr 03 09:48:22 2001
Response via : Initial Calibration
DataAcq Meth : 04030125

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	6.98	168	619624	10.00	ug\L	0.01
45) Chlorobenzene-d5	12.34	117	757287	10.00	ug\L	0.00
61) 1,4-Dichlorobenzene-d4	15.58	152	262587	10.00	ug\L	0.00
88) 1.4-Difluorobenzene	0.00	116	0m	10.00	ug\L	-8.12
System Monitoring Compounds						
32) 1,2-Dichloroethane-d4	7.46	65	207745	9.73	ug\L	0.02
Spiked Amount 10.000	Range 80 - 120		Recovery = 97.30%			
46) Toluene-d8	10.28	98	1222616	10.87	ug\L	0.00
Spiked Amount 10.000	Range 87 - 104		Recovery = 108.70%#			
66) Bromofluorobenzene	13.98	95	314941	11.09	ug\L	0.00
Spiked Amount 10.000	Range 84 - 110		Recovery = 110.90%#			
Target Compounds						Qvalue
16) Methylene Chloride	3.88	86	7994	0.53	ug\L	92

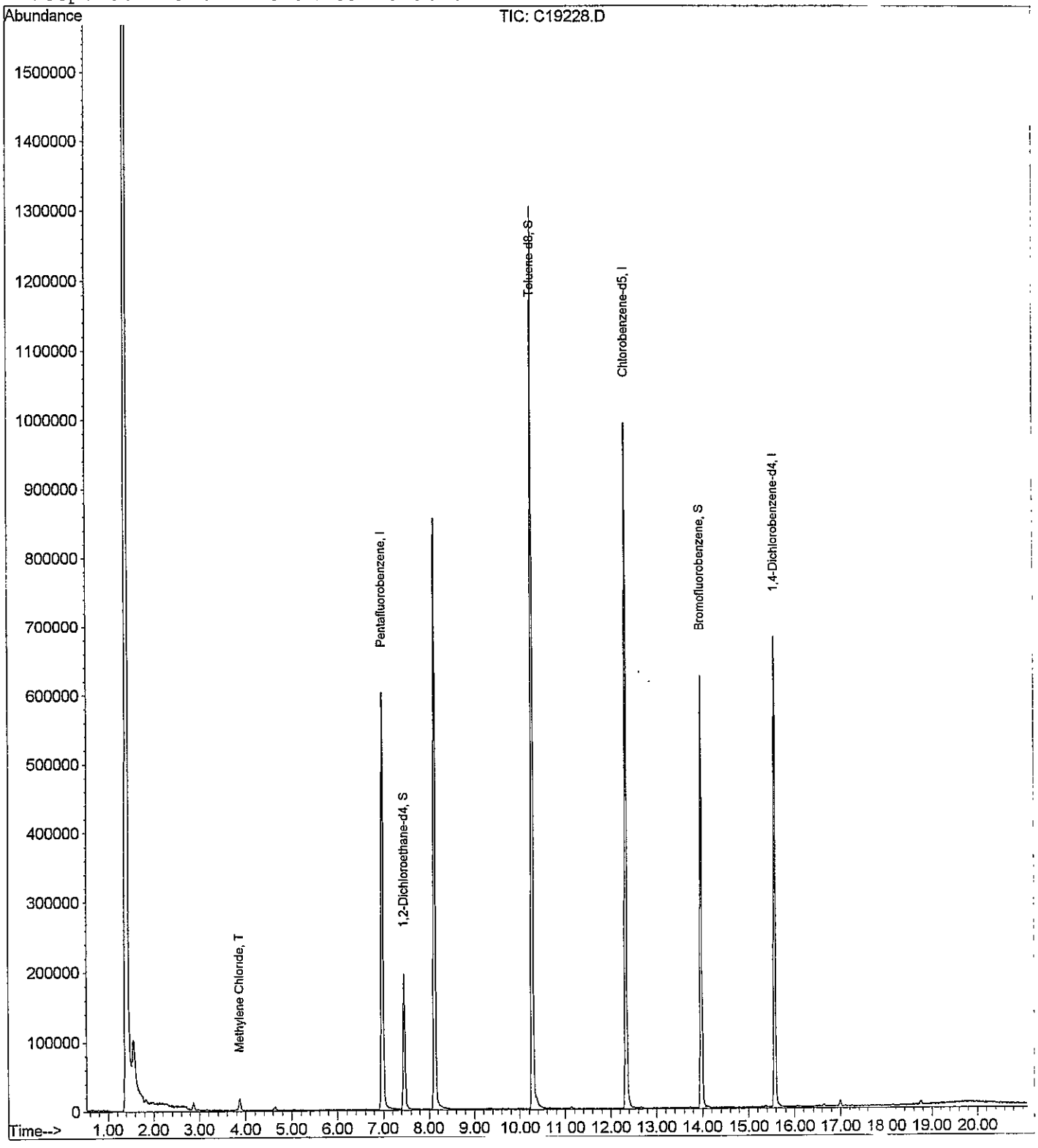
VRR
4.5.01

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\040301\C19228.D Vial: 16
Acq On : 04/03/01 17:04 Operator: JP/VRR
Sample : AC10497 25ml DF=1 Inst : VOA-C
Misc : 27420/C04030125 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 4 9:51 2001 Quant Results File: 04030125.RES

Method : C:\HPCHEM\1\DATA\040301\04030125.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Tue Apr 03 09:48:22 2001
Response via : Initial Calibration



LSC Area Percent Report

Data File : C:\HPCHEM\1\DATA\040301\C19228.D Vial: 16
Acq On : 04/03/01 17:04 Operator: JP/VRR
Sample : AC10497 25ml DF=1 Inst : VOA-C
Misc : 27420/C04030125 Multiplr: 1.00
MS Integration Params: LSCINT.P

Method : c:\hpchem\1\data\040301\04030125.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.02 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Signal : TIC

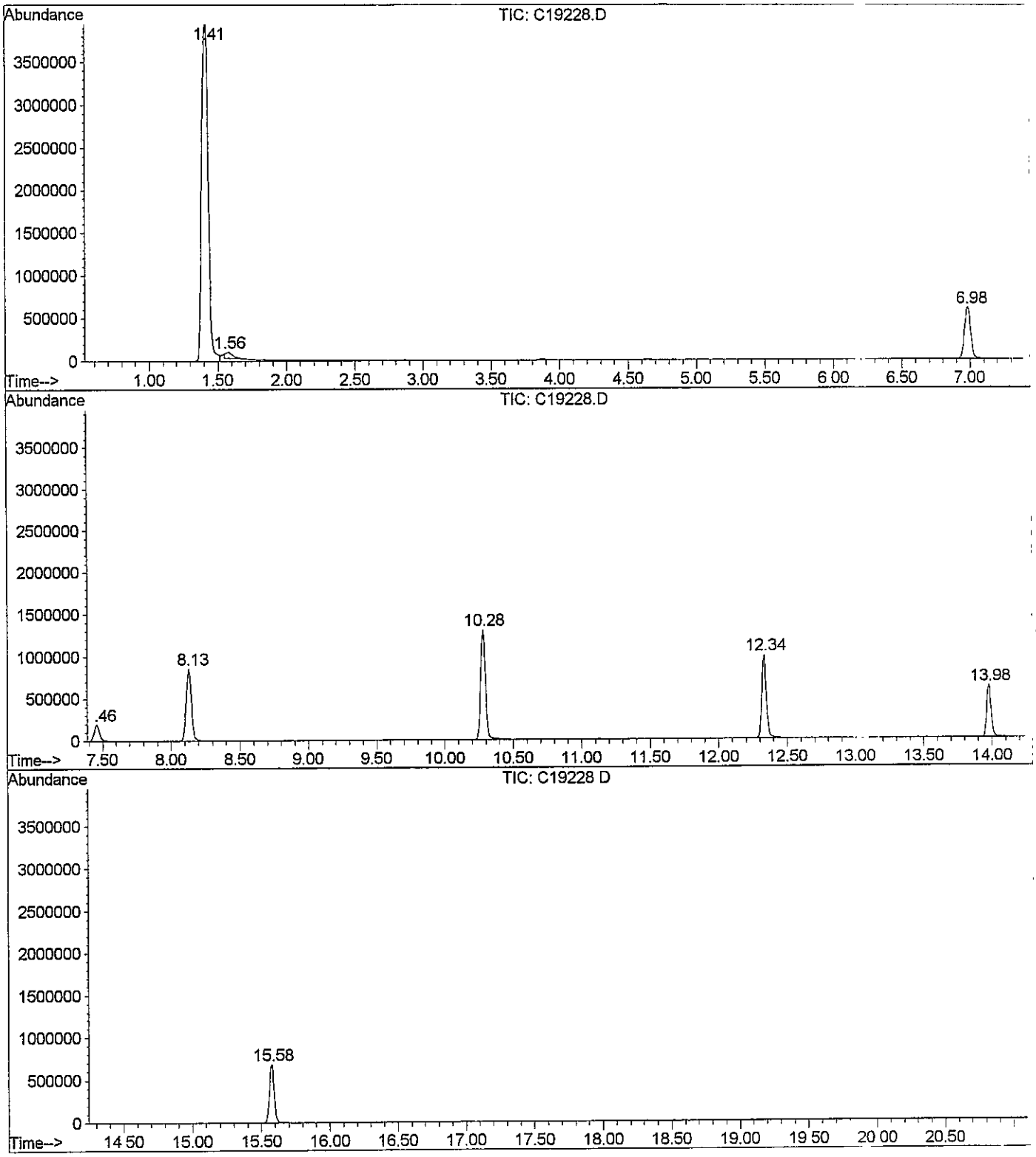
peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	peak area	peak % max.	% of total
1	1.415	131	148	164	rBV	3946868	12876180	100.00%	48.983%
2	1.559	170	172	188	rVB	68244	236590	1.84%	0.900%
3	6.984	1060	1074	1088	rBV	601817	1842945	14.31%	7.011%
4	7.459	1142	1153	1167	rBV2	195740	542979	4.22%	2.066%
5	8.132	1250	1265	1282	rBV	856532	2264373	17.59%	8.614%
6	10.279	1611	1622	1634	rBV	1304734	3169448	24.61%	12.057%
7	12.336	1953	1964	1986	rBV	993144	2294462	17.82%	8.729%
8	13.978	2227	2237	2252	rBV	623877	1443423	11.21%	5.491%
9	15.578	2493	2503	2516	rBV	679327	1616412	12.55%	6.149%

Sum of corrected areas: 26286812

C19228.D 04030125.M Mon Apr 09 16:54:02 2001 INST:VOA-C

LSC Report - Integrated Chromatogram

File : C:\HPCHEM\1\DATA\040301\C19228.D
Operator : JP/VRR
Acquired : 3 Apr 2001 17:04 using AcqMethod 04030125
Instrument : VOA-C
Sample Name: AC10497 25ml DF=1
Misc Info : 27420/C04030125
Vial Number: 16
Quant File :04030125.RES (RTE Integrator)



C19228.D 04030125.M Mon Apr 09 16:54:03 2001 INST:VOA-C

Tentatively Identified Compound (LSC) summary

Operator ID: JP/VRR Date Acquired: 3 Apr 2001 17:04
Data File: C:\HPCHEM\1\DATA\040301\C19228.D
Name: AC10497 25ml DF=1
Misc: 27420/C04030125
Method: c:\hpchem\1\data\040301\04030125.M (RTE Integrator)
Title: 8260 CALIBRATION FOR 25ML WATER
Library Searched: C:\DATABASE\NBS75K.L

TIC Top Hit name	RT	EstConc	Units	Area	IntStd	ISRT	ISArea	ISConc

C19228.D 04030125.M Mon Apr 09 16:54:03 2001 INST:VOA-C

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\040401\C19239.D Vial: 4
Acq On : 04/04/01 17:04 Operator: JP/VRR
Sample : AC10497 2 5ml DF=1 Inst : VOA-C
Misc : 27420/C04030125 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 5 12:10 2001 Quant Results File: 04040125.RES

Quant Method : c:\hpchem\1\data\040401\04040125.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Tue Apr 03 09:48:22 2001
Response via : Initial Calibration
DataAcq Meth : 04040125

RL COPY

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	6.97	168	577729	10.00	ug\L	0.00
45) Chlorobenzene-d5	12.33	117	690675	10.00	ug\L	0.00
61) 1,4-Dichlorobenzene-d4	15.57	152	243367	10.00	ug\L	0.00
88) 1.4-Difluorobenzene	0.00	116	0m	10.00	ug\L	-8.12
System Monitoring Compounds						
32) 1,2-Dichloroethane-d4	7.44	65	193852	9.74	ug\L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 97.40%			
46) Toluene-d8	10.28	98	1116120	10.88	ug\L	0.00
Spiked Amount 10.000	Range 87 - 104		Recovery = 108.80%#			
66) Bromofluorobenzene	13.97	95	288531	10.96	ug\L	0.00
Spiked Amount 10.000	Range 84 - 110		Recovery = 109.60%			

Target Compounds Qvalue

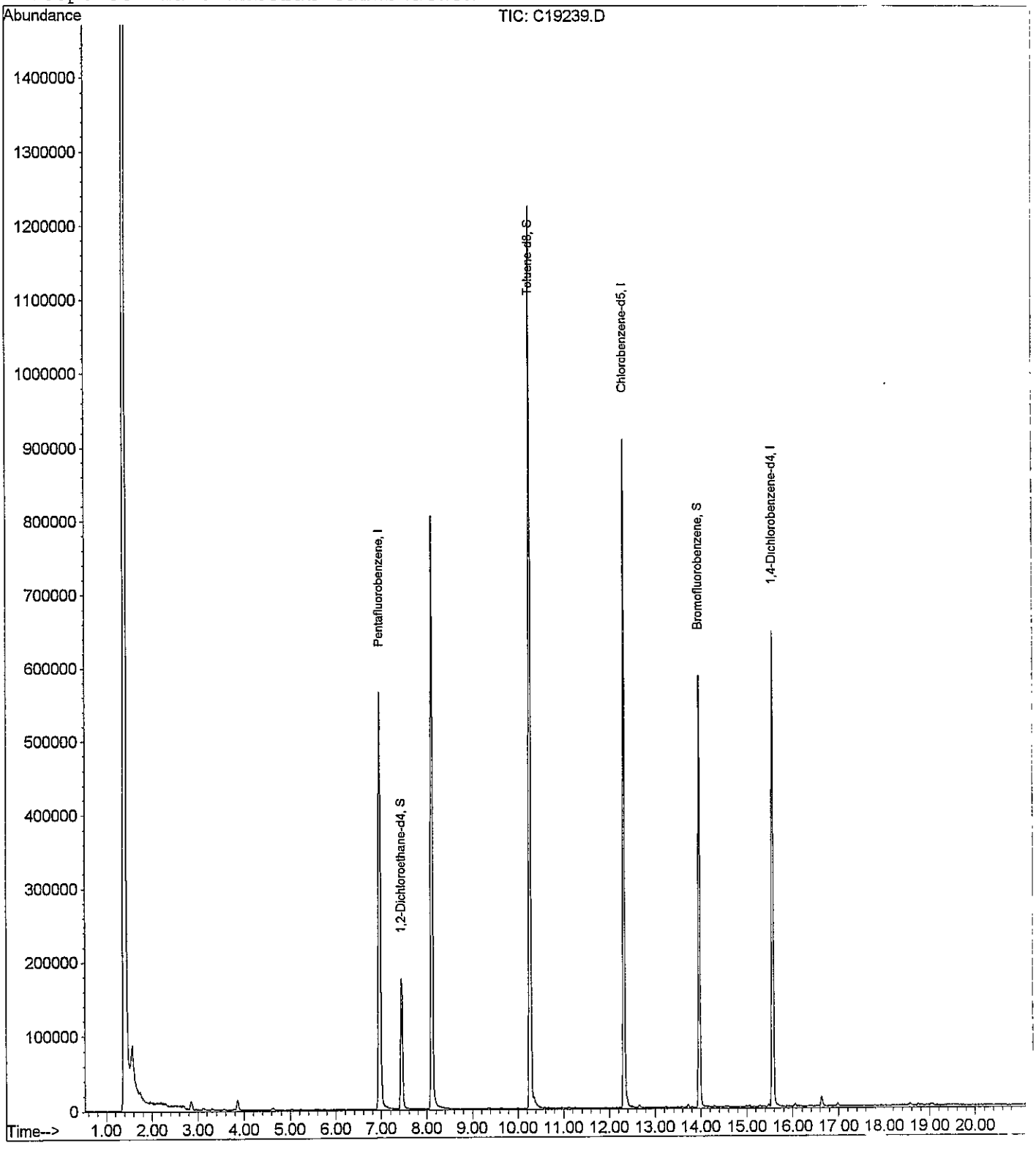
VRR
4.5.01

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\040401\C19239.D Vial: 4
Acq On : 04/04/01 17:04 Operator: JP/VRR
Sample : AC10497 2 5ml DF=1 Inst : VOA-C
Misc : 27420/C04030125 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 5 12:10 2001 Quant Results File: 04040125.RES

Method : C:\HPCHEM\1\DATA\040401\04040125.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Tue Apr 03 09:48:22 2001
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\040301\C19229.D Vial: 1
Acq On : 04/03/01 17:29 Operator: JP/VRR
Sample : AC10498 25ml DF=1 Inst : VOA-C
Misc : 27420/C04030125 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 4 9:52 2001 Quant Results File: 04030125.RES

Quant Method : c:\hpchem\1\data\040301\04030125.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Tue Apr 03 09:48:22 2001
Response via : Initial Calibration
DataAcq Meth : 04030125

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	6.98	168	662765	10.00	ug\L	0.01
45) Chlorobenzene-d5	12.34	117	819024	10.00	ug\L	0.00
61) 1,4-Dichlorobenzene-d4	15.58	152	280467	10.00	ug\L	0.00
88) 1.4-Difluorobenzene	0.00	116	0m	10.00	ug\L	-8.12
System Monitoring Compounds						
32) 1,2-Dichloroethane-d4	7.46	65	219043	9.59	ug\L	0.02
Spiked Amount 10.000	Range 80 - 120		Recovery = 95.90%			
46) Toluene-d8	10.28	98	1300372	10.69	ug\L	0.00
Spiked Amount 10.000	Range 87 - 104		Recovery = 106.90%#			
66) Bromofluorobenzene	13.98	95	340437	11.23	ug\L	0.00
Spiked Amount 10.000	Range 84 - 110		Recovery = 112.30%#			
Target Compounds						Qvalue
16) Methylene Chloride	3.88	86	8266	0.51	ug\L	98

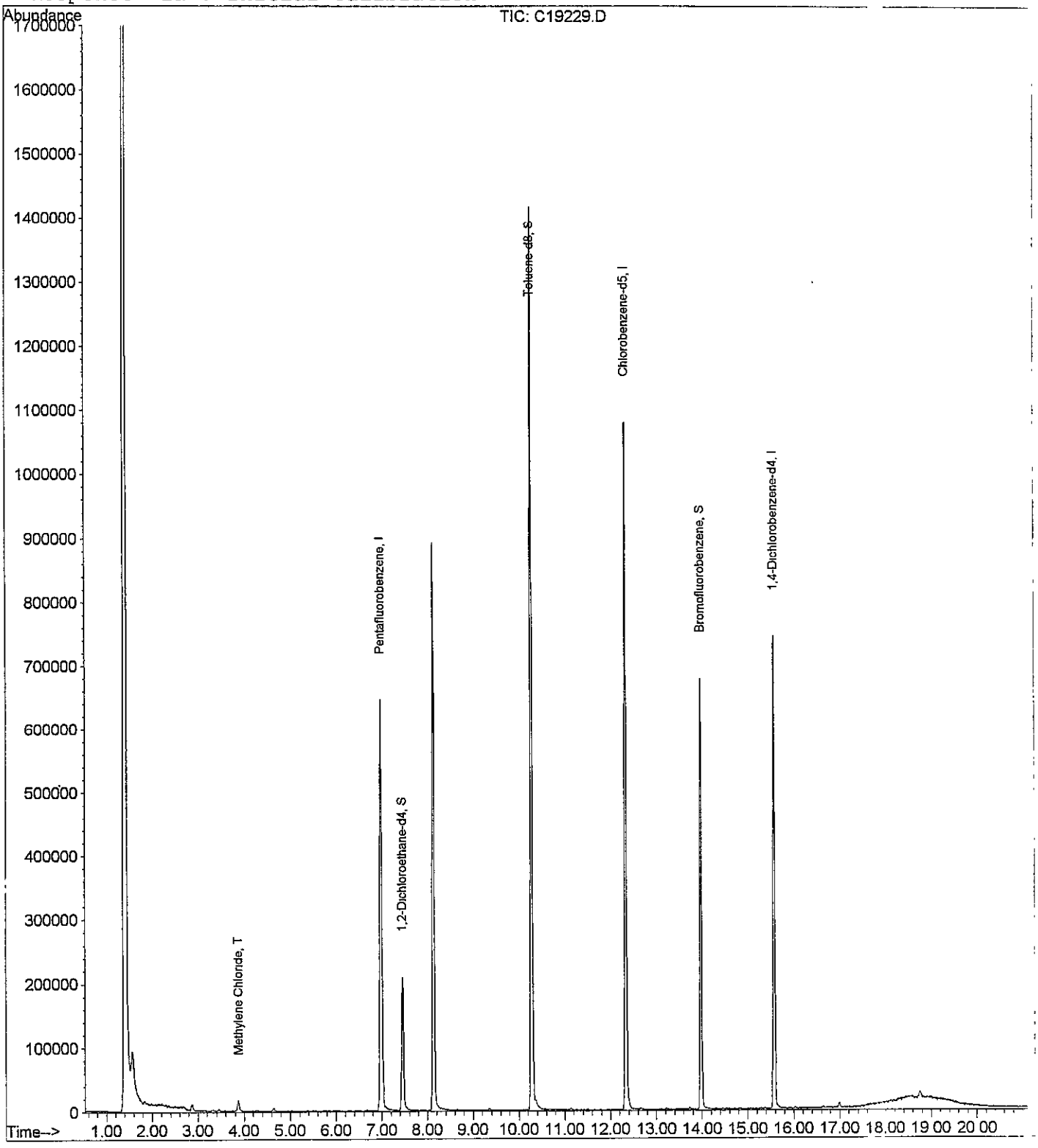
VRR
4.5.01

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\040301\C19229.D Vial: 1
Acq On : 04/03/01 17:29 Operator: JP/VRR
Sample : AC10498 25ml DF=1 Inst : VOA-C
Misc : 27420/C04030125 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 4 9:52 2001 Quant Results File: 04030125.RES

Method : C:\HPCHEM\1\DATA\040301\04030125.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Tue Apr 03 09:48:22 2001
Response via : Initial Calibration



LSC Area Percent Report

Data File : C:\HPCHEM\1\DATA\040301\C19229.D Vial: 1
Acq On : 04/03/01 17:29 Operator: JP/VRR
Sample : AC10498 25ml DF=1 Inst : VOA-C
Misc : 27420/C04030125 Multiplr: 1.00
MS Integration Params: LSCINT.P

Method : c:\hpchem\1\data\040301\04030125.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.02 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Signal : TIC

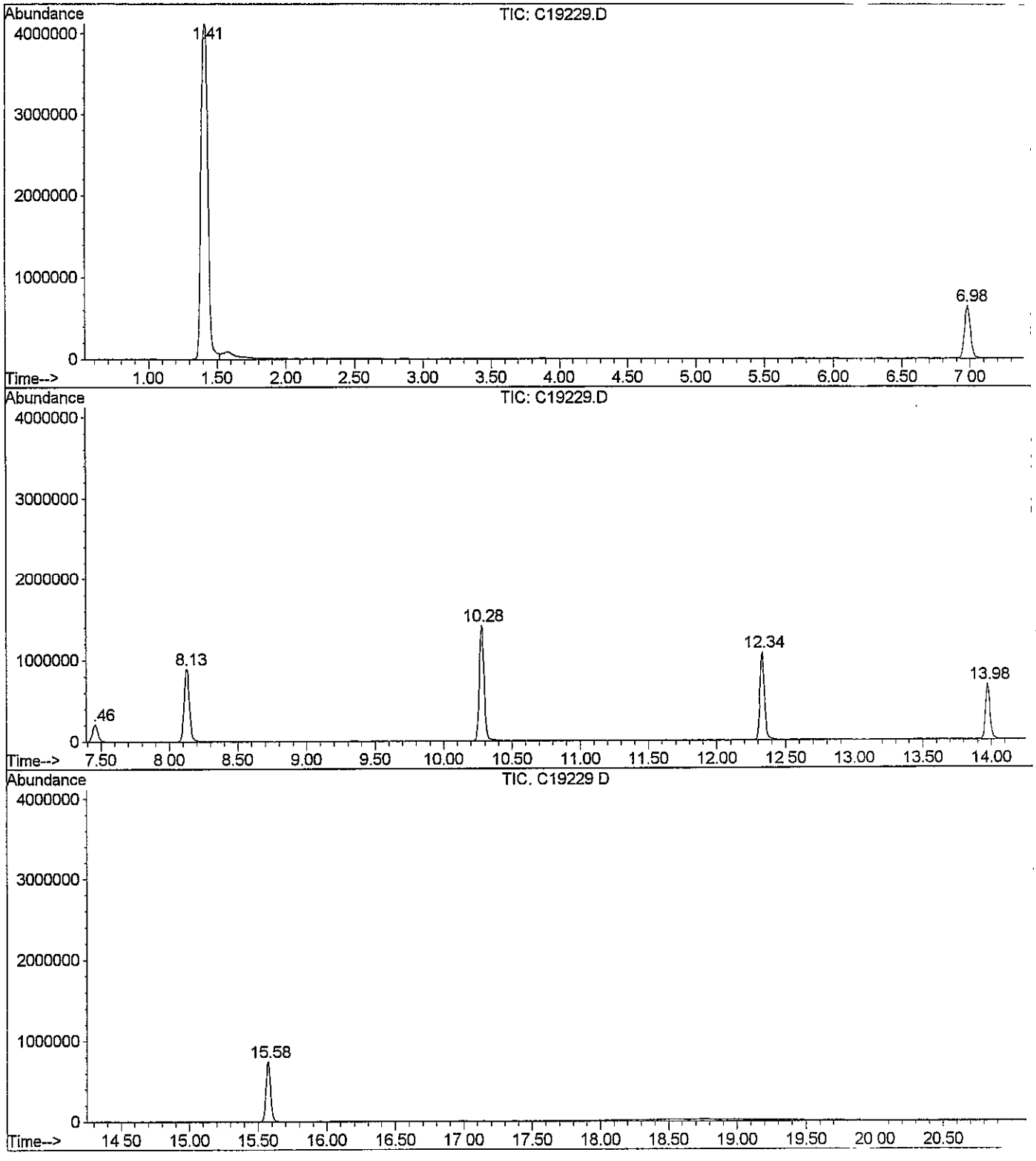
peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	peak area	peak % max.	% of total
1	1.408	131	147	165	rBV	4121044	14027654	100.00%	49.805%
2	6.983	1059	1074	1087	rBV	645296	1957620	13.96%	6.951%
3	7.459	1142	1153	1170	rBV	207392	594044	4.23%	2.109%
4	8.132	1253	1265	1284	rBV	891928	2409624	17.18%	8.555%
5	10.279	1611	1622	1634	rBV	1415701	3377111	24.07%	11.990%
6	12.336	1953	1964	1988	rBV	1078136	2496436	17.80%	8.864%
7	13.978	2226	2237	2250	rBV	676757	1573090	11.21%	5.585%
8	15.578	2492	2503	2523	rBV	741099	1729475	12.33%	6.140%

Sum of corrected areas: 28165054

C19229.D 04030125.M Mon Apr 09 16:52:43 2001 INST:VOA-C

LSC Report - Integrated Chromatogram

File : C:\HPCHEM\1\DATA\040301\C19229.D
Operator : JP/VRR
Acquired : 3 Apr 2001 17:29 using AcqMethod 04030125
Instrument : VOA-C
Sample Name: AC10498 25ml DF=1
Misc Info : 27420/C04030125
Vial Number: 1
Quant File :04030125.RES (RTE Integrator)



C19229.D 04030125.M Mon Apr 09 16:52:45 2001 INST:VOA-C

Tentatively Identified Compound (LSC) summary

Operator ID: JP/VRR Date Acquired: 3 Apr 2001 17:29
Data File: C:\HPCHEM\1\DATA\040301\C19229.D
Name: AC10498 25ml DF=1
Misc: 27420/C04030125
Method: c:\hpchem\1\data\040301\04030125.M (RTE Integrator)
Title: 8260 CALIBRATION FOR 25ML WATER
Library Searched: C:\DATABASE\NBS75K.L

TIC Top Hit name	RT	EstConc	Units	Area	IntStd	ISRT	ISArea	ISConc

C19229.D 04030125.M Mon Apr 09 16:52:45 2001 INST:VOA-C

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\040301\C19231.D Vial: 3
Acq On : 04/03/01 18:21 Operator: JP/VRR
Sample : AC10499 25ml DF=1 Inst : VOA-C
Misc : 27420/C04030125 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 4 9:55 2001 Quant Results File: 04030125.RES

Quant Method : c:\hpchem\1\data\040301\04030125.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Tue Apr 03 09:48:22 2001
Response via : Initial Calibration
DataAcq Meth : 04030125

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	6.98	168	576191	10.00	ug\L	0.02
45) Chlorobenzene-d5	12.34	117	734156	10.00	ug\L	0.00
61) 1,4-Dichlorobenzene-d4	15.58	152	262380	10.00	ug\L	0.00
88) 1.4-Difluorobenzene	0.00	116	0m	10.00	ug\L	-8.12
System Monitoring Compounds						
32) 1,2-Dichloroethane-d4	7.45	65	211889	10.67	ug\L	0.02
Spiked Amount 10.000	Range 80 - 120		Recovery = 106.70%			
46) Toluene-d8	10.29	98	1177931	10.81	ug\L	0.02
Spiked Amount 10.000	Range 87 - 104		Recovery = 108.10%#			
66) Bromofluorobenzene	13.98	95	313933	11.07	ug\L	0.00
Spiked Amount 10.000	Range 84 - 110		Recovery = 110.70%#			
Target Compounds						Qvalue
16) Methylene Chloride	3.88	86	9126	0.65	ug\L	95

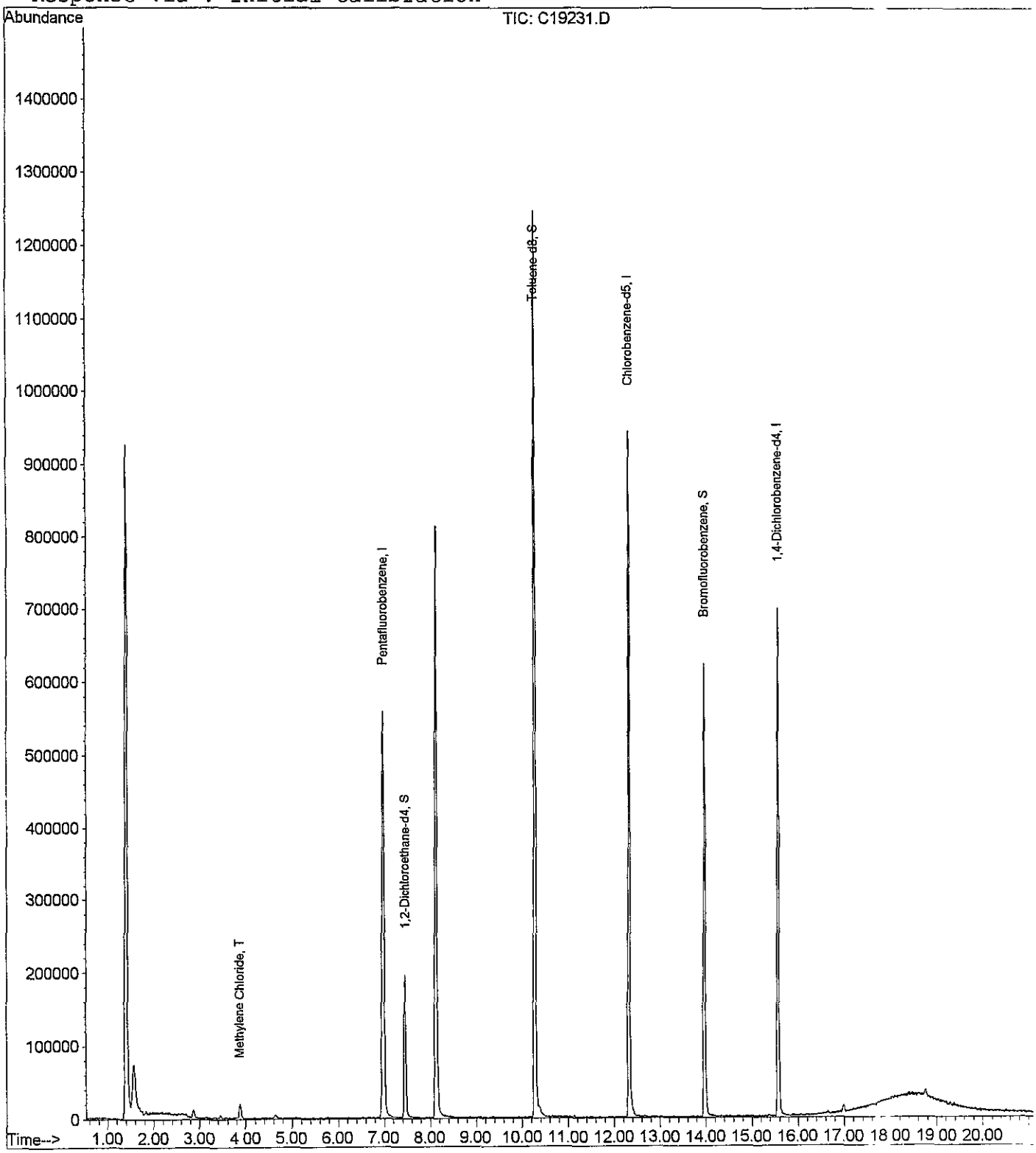
VRR
4.5.01

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\040301\C19231.D Vial: 3
Acq On : 04/03/01 18:21 Operator: JP/VRR
Sample : AC10499 25ml DF=1 Inst : VOA-C
Misc : 27420/C04030125 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 4 9:55 2001 Quant Results File: 04030125.RES

Method : C:\HPCHEM\1\DATA\040301\04030125.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Tue Apr 03 09:48:22 2001
Response via : Initial Calibration



LSC Area Percent Report

Data File : C:\HPCHEM\1\DATA\040301\C19231.D Vial: 3
Acq On : 04/03/01 18:21 Operator: JP/VRR
Sample : AC10499 25ml DF=1 Inst : VOA-C
Misc : 27420/C04030125 Multiplr: 1.00
MS Integration Params: LSCINT.P

Method : c:\hpchem\1\data\040301\04030125.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.02 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Signal : TIC

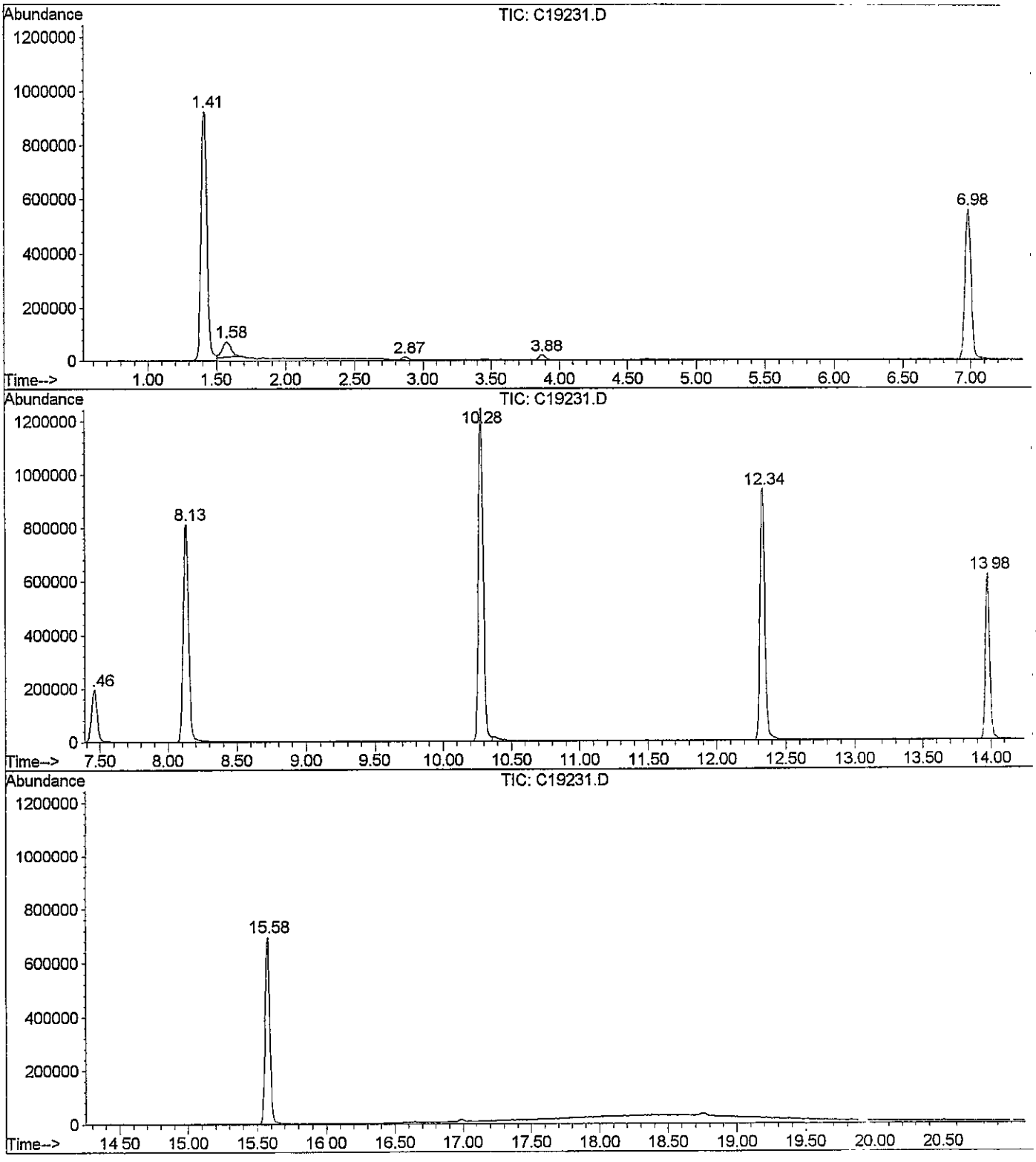
peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	peak area	peak % max.	% of total
1	1.409	132	148	163	rBV	925264	2876282	93.26%	17.946%
2	1.578	163	176	190	rVB	59275	274572	8.90%	1.713%
3	2.871	383	391	400	rVB3	11141	32881	1.07%	0.205%
4	3.881	549	559	566	rBV3	18770	54150	1.76%	0.338%
5	6.985	1062	1075	1091	rBV	557681	1702126	55.19%	10.620%
6	7.460	1142	1154	1166	rBV2	196459	557534	18.08%	3.479%
7	8.133	1254	1266	1287	rBV	813309	2151803	69.77%	13.426%
8	10.280	1612	1623	1636	rBV	1245802	3084203	100.00%	19.243%
9	12.337	1953	1965	1990	rBV	942727	2247541	72.87%	14.023%
10	13.979	2229	2238	2255	rBV	621656	1449743	47.01%	9.045%
11	15.579	2493	2504	2519	rBV	697600	1596428	51.76%	9.961%

Sum of corrected areas: 16027263

C19231.D 04030125.M Mon Apr 09 17:00:22 2001 INST:VOA-C

LSC Report - Integrated Chromatogram

File : C:\HPCHEM\1\DATA\040301\C19231.D
Operator : JP/VRR
Acquired : 3 Apr 2001 18:21 using AcqMethod 04030125
Instrument : VOA-C
Sample Name: AC10499 25ml DF=1
Misc Info : 27420/C04030125
Vial Number: 3
Quant File :04030125.RES (RTE Integrator)



Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\040301\C19231.D Vial: 3
Acq On : 04/03/01 18:21 Operator: JP/VRR
Sample : AC10499 25ml DF=1 Inst : VOA-C
Misc : 27420/C04030125 Multiplr: 1.00
MS Integration Params: LSCINT.P

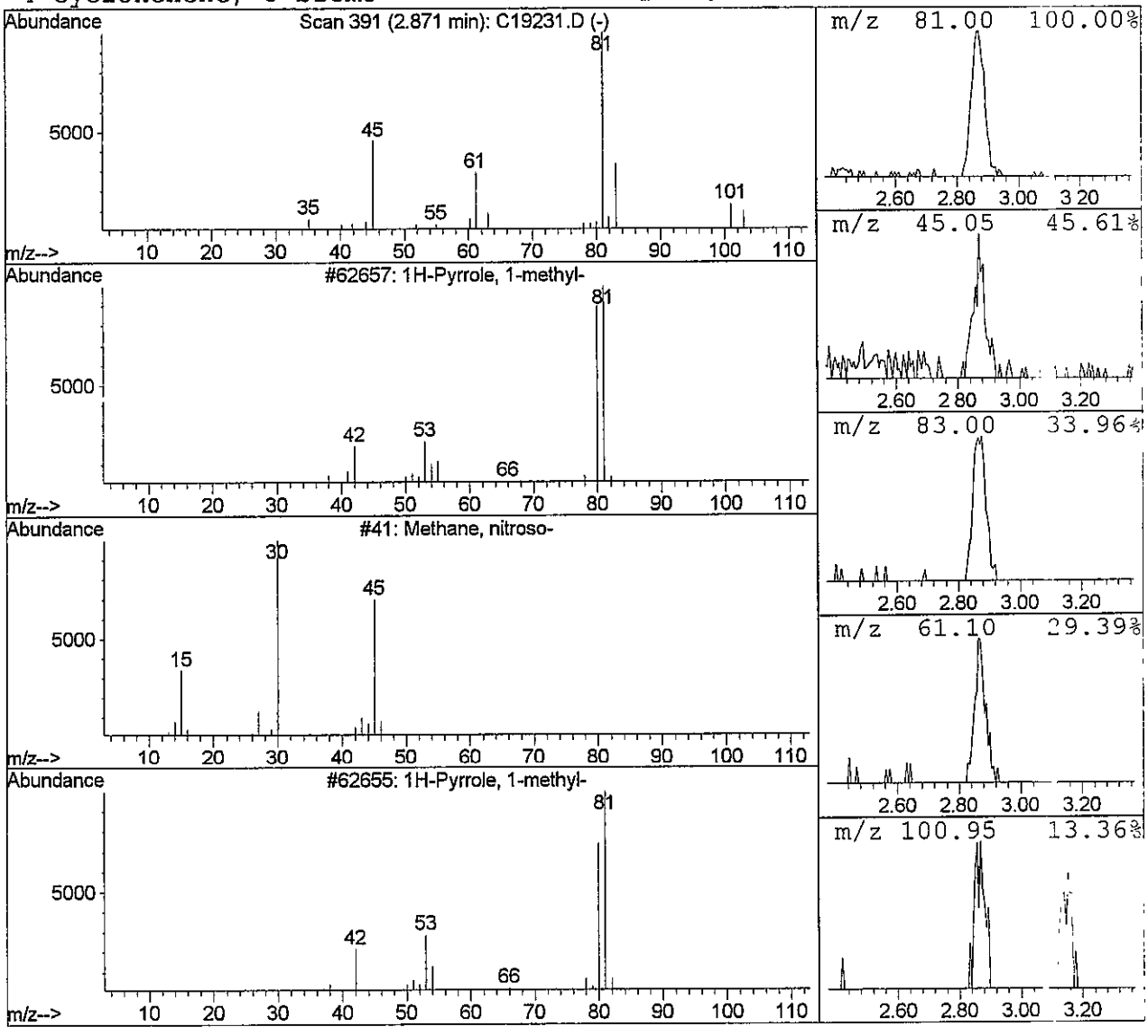
Quant Method : c:\hpchem\1\data\040301\04030125.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Library : C:\DATABASE\NBS75K.L

****

Peak Number 1 1H-Pyrrole, 1-methyl- Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.87	328810.00 ug\L	32881	1.4-Difluorobenzene	0.00

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1H-Pyrrole, 1-methyl-	81	C5H7N	000096-54-8	5
2	Methane, nitroso-	45	CH3NO	000865-40-7	4
3	1H-Pyrrole, 1-methyl-	81	C5H7N	000096-54-8	4
4	Cyclohexene, 3-bromo-	160	C6H9Br	001521-51-3	4



Tentatively Identified Compound (LSC) summary

Operator ID: JP/VRR Date Acquired: 3 Apr 2001 18:21
Data File: C:\HPCHEM\1\DATA\040301\C19231.D
Name: AC10499 25ml DF=1
Misc: 27420/C04030125
Method: c:\hpchem\1\data\040301\04030125.M (RTE Integrator)
Title: 8260 CALIBRATION FOR 25ML WATER
Library Searched: C:\DATABASE\NBS75K.L

TIC Top Hit name	RT	EstConc	Units	Area	IntStd	ISRT	ISArea	ISConc
1H-Pyrrole, 1-methyl	2.87	328810.0	ug\L	32881	ISTD01	0.00	1	10.0

C19231.D 04030125.M Mon Apr 09 17:00:28 2001 INST:VOA-C

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\040501\C19254.D Vial: 6
Acq On : 04/05/01 17:57 Operator: JP/VRR
Sample : AC10500 25ml DF=1 Inst : VOA-C
Misc : 27420/C04030125 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 6 8:45 2001 Quant Results File: 04050125.RES

Quant Method : c:\hpchem\1\data\040501\04050125.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Tue Apr 03 09:48:22 2001
Response via : Initial Calibration
DataAcq Meth : 04050125

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	6.97	168	424804	10.00	ug\L	0.00
45) Chlorobenzene-d5	12.32	117	535287	10.00	ug\L	0.00
61) 1,4-Dichlorobenzene-d4	15.56	152	196404	10.00	ug\L	-0.01
88) 1.4-Difluorobenzene	0.00	116	0m	10.00	ug\L	-8.12
System Monitoring Compounds						
32) 1,2-Dichloroethane-d4	7.44	65	152239	10.40	ug\L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 104.00%			
46) Toluene-d8	10.26	98	823945	10.37	ug\L	0.00
Spiked Amount 10.000	Range 87 - 104		Recovery = 103.70%			
66) Bromofluorobenzene	13.96	95	221764	10.44	ug\L	0.00
Spiked Amount 10.000	Range 84 - 110		Recovery = 104.40%			
Target Compounds						Qvalue
16) Methylene Chloride	3.86	86	5523	0.53	ug\L	97

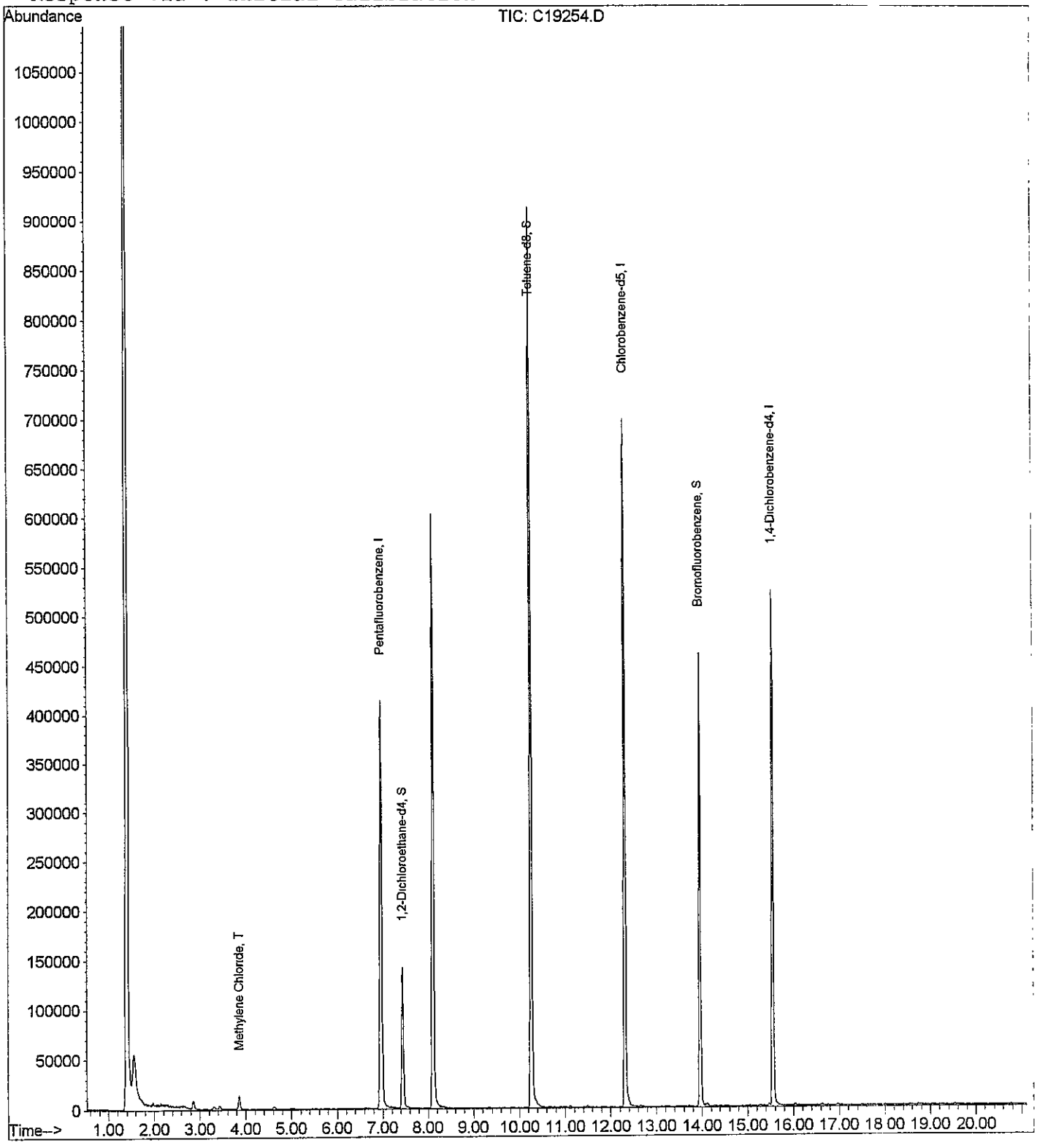
VRR 4.6.01

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\040501\C19254.D Vial: 6
Acq On : 04/05/01 17:57 Operator: JP/VRR
Sample : AC10500 25ml DF=1 Inst : VOA-C
Misc : 27420/C04030125 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 6 8:45 2001 Quant Results File: 04050125.RES

Method : C:\HPCHEM\1\DATA\040501\04050125.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Tue Apr 03 09:48:22 2001
Response via : Initial Calibration



LSC Area Percent Report

Data File : C:\HPCHEM\1\DATA\040501\C19254.D Vial: 6
Acq On : 04/05/01 17:57 Operator: JP/VRR
Sample : AC10500 25ml DF=1 Inst : VOA-C
Misc : 27420/C04030125 Multiplr: 1.00
MS Integration Params: LSCINT.P

Method : c:\hpchem\1\data\040501\04050125.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.02 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Signal : TIC

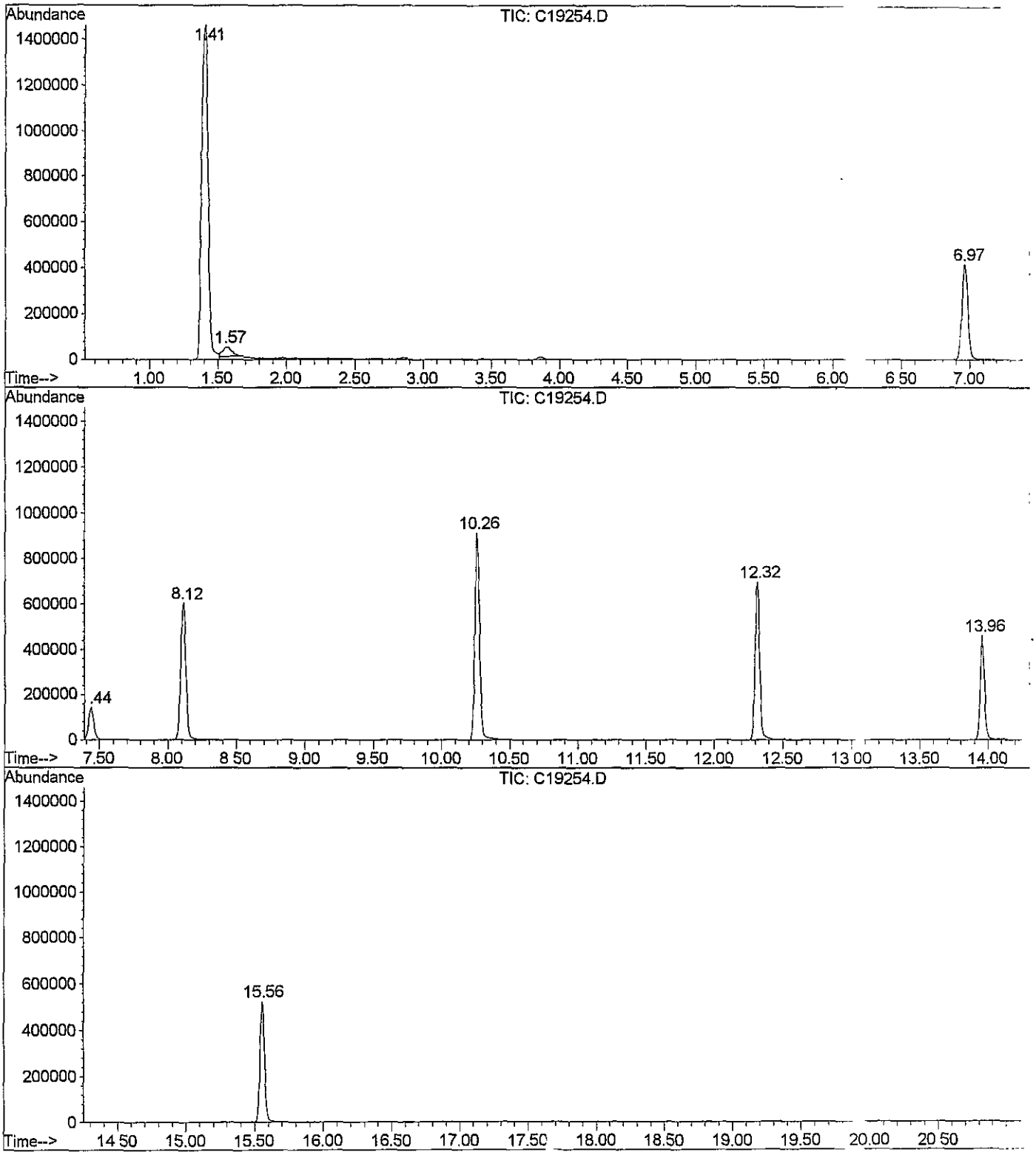
peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	peak area	peak % max.	% of total
1	1.410	128	148	165	rBV	1462475	4765788	100.00%	33.396%
2	1.566	165	174	188	rVB	40932	193090	4.05%	1.353%
3	6.967	1053	1072	1088	rBV	414283	1265431	26.55%	8.868%
4	7.442	1140	1151	1167	rBV	141909	391602	8.22%	2.744%
5	8.115	1252	1263	1281	rBV	603273	1575915	33.07%	11.043%
6	10.263	1608	1620	1645	rBV	913651	2181255	45.77%	15.285%
7	12.319	1951	1962	1983	rBV	698458	1661180	34.86%	11.641%
8	13.961	2226	2235	2249	rBV	460456	1023837	21.48%	7.175%
9	15.555	2491	2500	2513	rBV	523167	1212333	25.44%	8.495%

Sum of corrected areas: 14270431

C19254.D 04050125.M Mon Apr 09 17:20:33 2001 INST:VOA-C

LSC Report - Integrated Chromatogram

File : C:\HPCHEM\1\DATA\040501\C19254.D
Operator : JP/VRR
Acquired : 5 Apr 2001 17:57 using AcqMethod 04050125
Instrument : VOA-C
Sample Name: AC10500 25ml DF=1
Misc Info : 27420/C04030125
Vial Number: 6
Quant File :04050125.RES (RTE Integrator)



C19254.D 04050125.M Mon Apr 09 17:20:34 2001 INST:VOA-C

Data File : C:\HPCHEM\1\DATA\040501\C19254.D Vial: 6
Acq On : 04/05/01 17:57 Operator: JP/VRR
Sample : AC10500 25ml DF=1 Inst : VOA-C
Misc : 27420/C04030125 Multiplr: 1.00
MS Integration Params: LSCINT.P

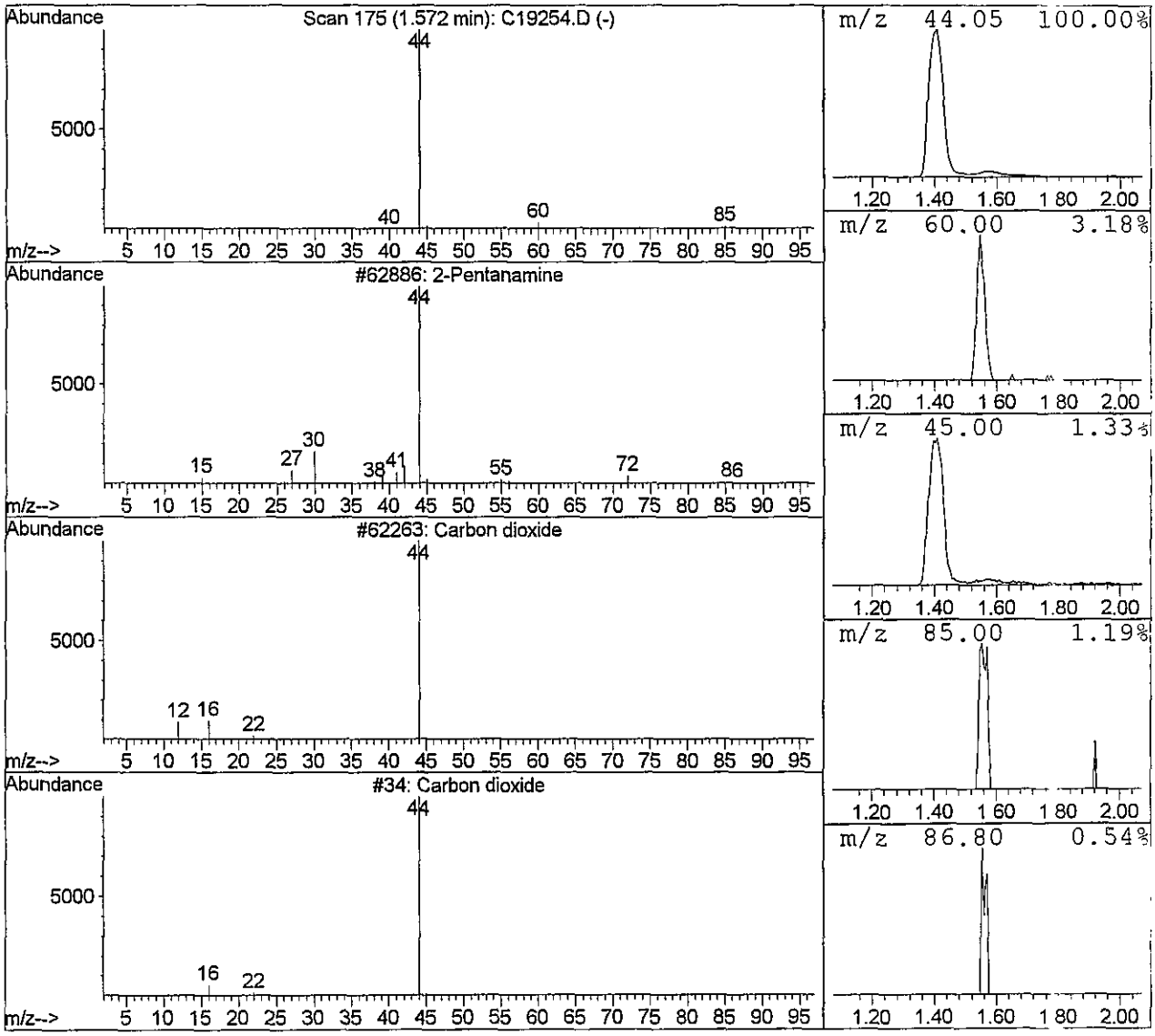
Quant Method : c:\hpchem\1\data\040501\04050I25.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Library : C:\DATABASE\NBS75K.L

****

Peak Number 1 2-Pentanamine Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
1.57	1930900.00 ug\L	193090	1.4-Difluorobenzene	0.00

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Pentanamine	87	C5H13N	000625-30-9	3
2	Carbon dioxide	44	CO2	000124-38-9	3
3	Carbon dioxide	44	CO2	000124-38-9	3
4	Nitrous Oxide	44	N2O	010024-97-2	3



Tentatively Identified Compound (LSC) summary

Operator ID: JP/VRR Date Acquired: 5 Apr 2001 17:57
Data File: C:\HPCHEM\1\DATA\040501\C19254.D
Name: AC10500 25ml DF=1
Misc: 27420/C04030125
Method: c:\hpchem\1\data\040501\04050125.M (RTE Integrator)
Title: 8260 CALIBRATION FOR 25ML WATER
Library Searched: C:\DATABASE\NBS75K.L

TIC Top Hit name	RT	EstConc	Units	Area	IntStd	ISRT	ISArea	ISConc
2-Pentanamine	1.57	1930900.0	ug\L	193090	ISTD01	0.00	1	10.0

C19254.D 04050125.M Mon Apr 09 17:20:38 2001 INST:VOA-C

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\040301\C19230.D Vial: 2
Acq On : 04/03/01 17:55 Operator: JP/VRR
Sample : AC10500 25ml DF=1 Inst : VOA-C
Misc : 27420/C04030125 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 4 9:53 2001 Quant Results File: 04030125.RES

Quant Method : c:\hpchem\1\data\040301\04030125.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Tue Apr 03 09:48:22 2001
Response via : Initial Calibration
DataAcq Meth : 04030125

File copy

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	6.98	168	657614	10.00	ug\L	0.01
45) Chlorobenzene-d5	12.33	117	813704	10.00	ug\L	0.00
61) 1,4-Dichlorobenzene-d4	15.57	152	288362	10.00	ug\L	0.00
88) 1.4-Difluorobenzene	.0.00	116	0m	10.00	ug\L	-8.12
System Monitoring Compounds						
32) 1,2-Dichloroethane-d4	7.45	65	232238	10.25	ug\L	0.01
Spiked Amount 10.000	Range 80 - 120		Recovery = 102.50%			
46) Toluene-d8	10.28	98	1322158	10.94	ug\L	0.00
Spiked Amount 10.000	Range 87 - 104		Recovery = 109.40%#			
66) Bromofluorobenzene	13.98	95	332397	10.66	ug\L	0.00
Spiked Amount 10.000	Range 84 - 110		Recovery = 106.60%			
Target Compounds						Qvalue
11) Acetone	3.32	58	2370	1.66	ug\L	89
16) Methylene Chloride	3.87	86	8884	0.55	ug\L	94

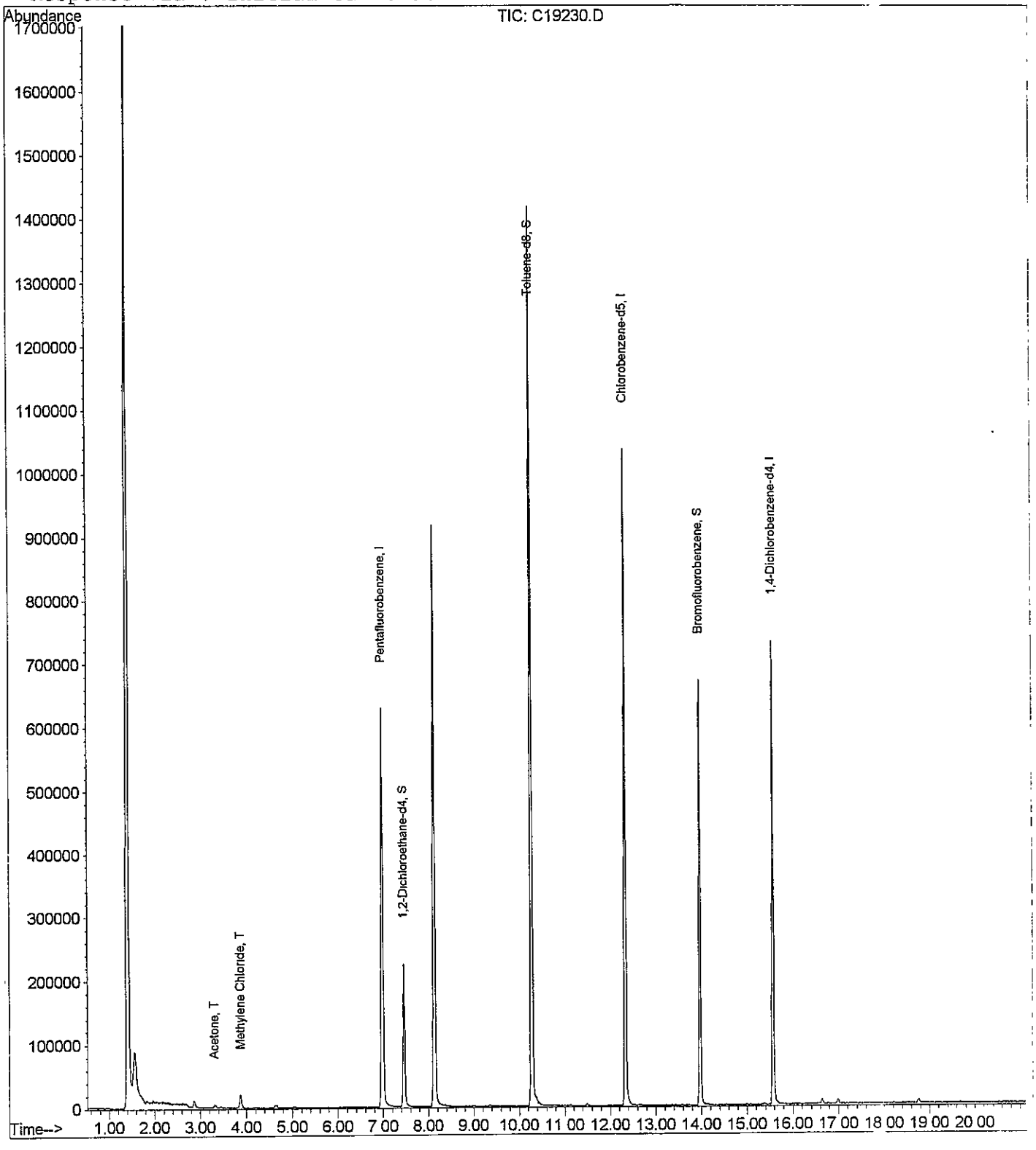
VRR
4.5.01

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\040301\C19230.D Vial: 2
Acq On : 04/03/01 17:55 Operator: JP/VRR
Sample : AC10500 25ml DF=1 Inst : VOA-C
Misc : 27420/C04030125 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 4 9:53 2001 Quant Results File: 04030125.RES

Method : C:\HPCHEM\1\DATA\040301\04030125.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Tue Apr 03 09:48:22 2001
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\040301\C19232.D Vial: 4
Acq On : 04/03/01 18:46 Operator: JP/VRR
Sample : AC10501 25ml DF=1 Inst : VOA-C
Misc : 27420/C04030125 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 4 9:57 2001 Quant Results File: 04030125.RES

Quant Method : c:\hpchem\1\data\040301\04030125.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Tue Apr 03 09:48:22 2001
Response via : Initial Calibration
DataAcq Meth : 04030125

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	6.98	168	653611	10.00	ug\L	0.01
45) Chlorobenzene-d5	12.34	117	845864	10.00	ug\L	0.00
61) 1,4-Dichlorobenzene-d4	15.58	152	313433	10.00	ug\L	0.00
88) 1.4-Difluorobenzene	0.00	116	0m	10.00	ug\L	-8.12
System Monitoring Compounds						
32) 1,2-Dichloroethane-d4	7.46	65	233328	10.36	ug\L	0.02
Spiked Amount 10.000	Range 80 - 120		Recovery = 103.60%			
46) Toluene-d8	10.28	98	1313774	10.46	ug\L	0.00
Spiked Amount 10.000	Range 87 - 104		Recovery = 104.60%#			
66) Bromofluorobenzene	13.98	95	364470	10.75	ug\L	0.00
Spiked Amount 10.000	Range 84 - 110		Recovery = 107.50%			
Target Compounds						Qvalue
11) Acetone	3.31	58	1690	0.76	ug\L	70
16) Methylene Chloride	3.87	86	16396	1.02	ug\L	98

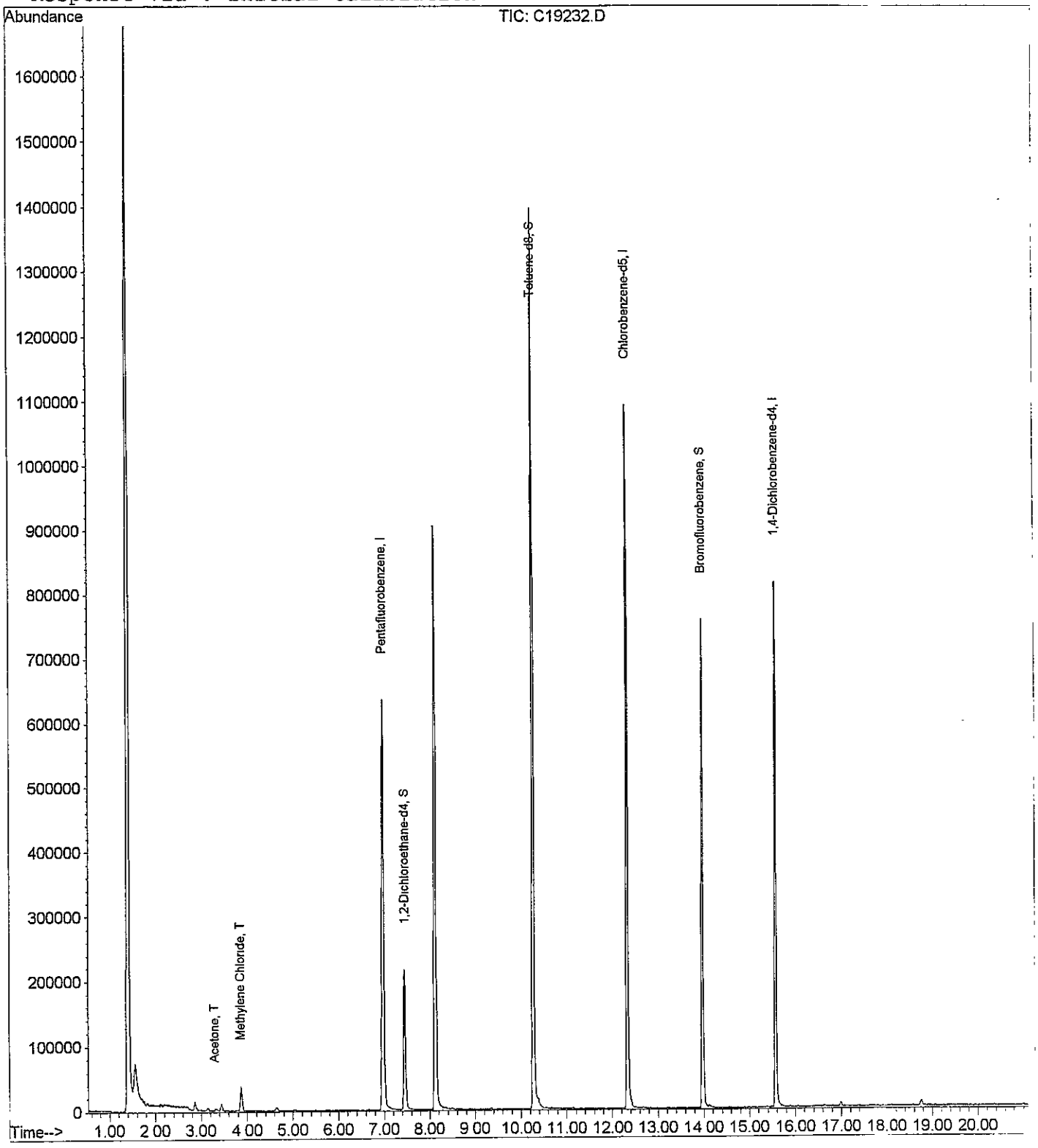
VRR
4.5.01

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\040301\C19232.D Vial: 4
Acq On : 04/03/01 18:46 Operator: JP/VRR
Sample : AC10501 25ml DF=1 Inst : VOA-C
Misc : 27420/C04030125 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 4 9:57 2001 Quant Results File: 04030125.RES

Method : C:\HPCHEM\1\DATA\040301\04030125.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Tue Apr 03 09:48:22 2001
Response via : Initial Calibration



LSC Area Percent Report

Data File : C:\HPCHEM\1\DATA\040301\C19232.D Vial: 4
Acq On : 04/03/01 18:46 Operator: JP/VRR
Sample : AC10501 25ml DF=1 Inst : VOA-C
Misc : 27420/C04030125 Multiplr: 1.00
MS Integration Params: LSCINT.P

Method : c:\hpchem\1\data\040301\04030125.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.02 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Signal : TIC

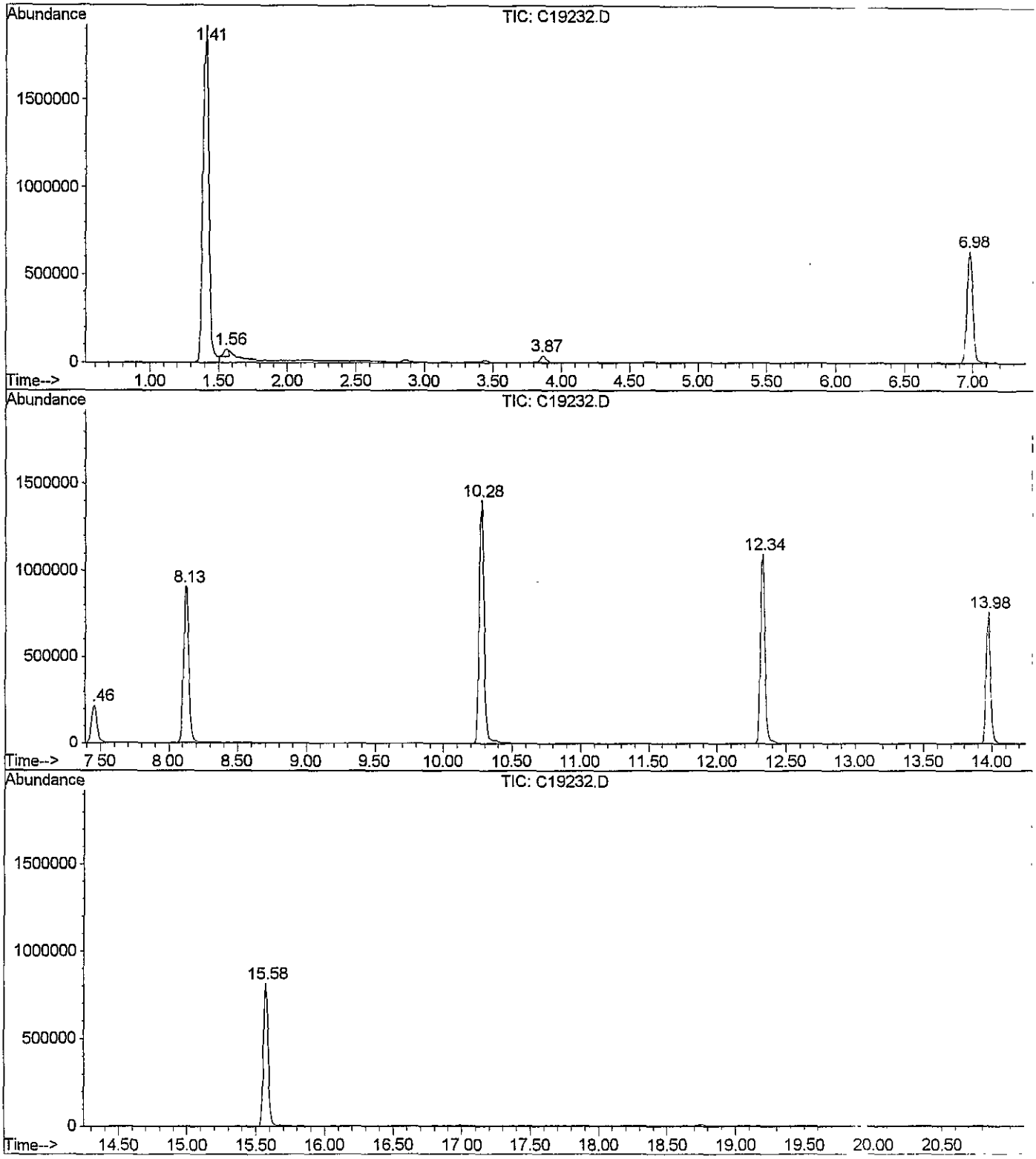
peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	peak area	peak % max.	% of total
1	1.414	132	148	163	rBV	1925043	5759773	100.00%	27.988%
2	1.565	163	173	175	rBV2	43484	101942	1.77%	0.495%
3	3.868	547	556	567	rVB2	37732	105529	1.83%	0.513%
4	6.983	1061	1074	1088	rBV2	634761	1917697	33.29%	9.318%
5	7.458	1141	1153	1165	rBV2	215526	608136	10.56%	2.955%
6	8.126	1252	1264	1289	rBV	905126	2436032	42.29%	11.837%
7	10.279	1612	1622	1648	rBV	1396501	3461987	60.11%	16.822%
8	12.336	1953	1964	1982	rBV	1091243	2582612	44.84%	12.549%
9	13.978	2227	2237	2252	rBV	756708	1682666	29.21%	8.176%
10	15.578	2492	2503	2518	rBV	813524	1923401	33.39%	9.346%

Sum of corrected areas: 20579775

C19232.D 04030125.M Mon Apr 09 17:03:27 2001 INST:VOA-C

LSC Report - Integrated Chromatogram

File : C:\HPCHEM\1\DATA\040301\C19232.D
Operator : JP/VRR
Acquired : 3 Apr 2001 18:46 using AcqMethod 04030125
Instrument : VOA-C
Sample Name: AC10501 25ml DF=1
Misc Info : 27420/C04030125
Vial Number: 4
Quant File :04030125.RES (RTE Integrator)



C19232.D 04030125.M Mon Apr 09 17:03:28 2001 INST:VOA-C

Tentatively Identified Compound (LSC) summary

Operator ID: JP/VRR Date Acquired: 3 Apr 2001 18:46
Data File: C:\HPCHEM\1\DATA\040301\C19232.D
Name: AC10501 25ml DF=1
Misc: 27420/C04030125
Method: c:\hpchem\1\data\040301\04030125.M (RTE Integrator)
Title: 8260 CALIBRATION FOR 25ML WATER
Library Searched: C:\DATABASE\NBS75K.L

TIC Top Hit name	RT	EstConc	Units	Area	IntStd	ISRT	ISArea	ISConc

C19232.D 04030125.M Mon Apr 09 17:03:29 2001 INST:VOA-C

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\040301\C19233.D Vial: 5
Acq On : 04/03/01 19:12 Operator: JP/VRR
Sample : AC10502 25ml DF=1 Inst : VOA-C
Misc : 27420/C04030125 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 4 10:00 2001 Quant Results File: 04030125.RES

Quant Method : c:\hpchem\1\data\040301\04030125.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Tue Apr 03 09:48:22 2001
Response via : Initial Calibration
DataAcq Meth : 04030125

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	6.98	168	662706	10.00	ug\L	0.02
45) Chlorobenzene-d5	12.34	117	835963	10.00	ug\L	0.00
61) 1,4-Dichlorobenzene-d4	15.57	152	340849	10.00	ug\L	0.00
88) 1.4-Difluorobenzene	0.00	116	0m	10.00	ug\L	-8.12
System Monitoring Compounds						
32) 1,2-Dichloroethane-d4	7.46	65	236164	10.34	ug\L	0.02
Spiked Amount 10.000	Range 80 - 120		Recovery = 103.40%			
46) Toluene-d8	10.28	98	1297184	10.45	ug\L	0.00
Spiked Amount 10.000	Range 87 - 104		Recovery = 104.50%#			
66) Bromofluorobenzene	13.98	95	383277	10.40	ug\L	0.00
Spiked Amount 10.000	Range 84 - 110		Recovery = 104.00%			
Target Compounds						Qvalue
11) Acetone	3.32	58	4571	4.58	ug\L	96
23) 2-Butanone	6.19	72	1989	2.73	ug\L #	98
58) Ethylbenzene	12.51	91	1459657	10.01	ug\L	100
59) total-Xylene	12.67	106	748655m	14.39	ug\L	
63) Isopropylbenzene	13.73	105	850564	5.57	ug\L	98
70) n-Propylbenzene	14.30	91	992275	5.44	ug\L	99
73) 1,3,5-Trimethylbenzene	14.54	105	1360424	11.38	ug\L	99
75) tert-Butylbenzene	15.42	119	494040	4.77	ug\L	98
76) 1,2,4-Trimethylbenzene	15.06	105	5191950	45.94	ug\L 16 E	99
77) sec-Butylbenzene	15.29	105	823459	5.38	ug\L	94
79) Isopropyltoluene	15.49	119	477848	4.05	ug\L	100
82) n-Butylbenzene	16.05	91	701308	6.19	ug\L #	51
86) Naphthalene	19.06	128	391767	16.82	ug\L	100

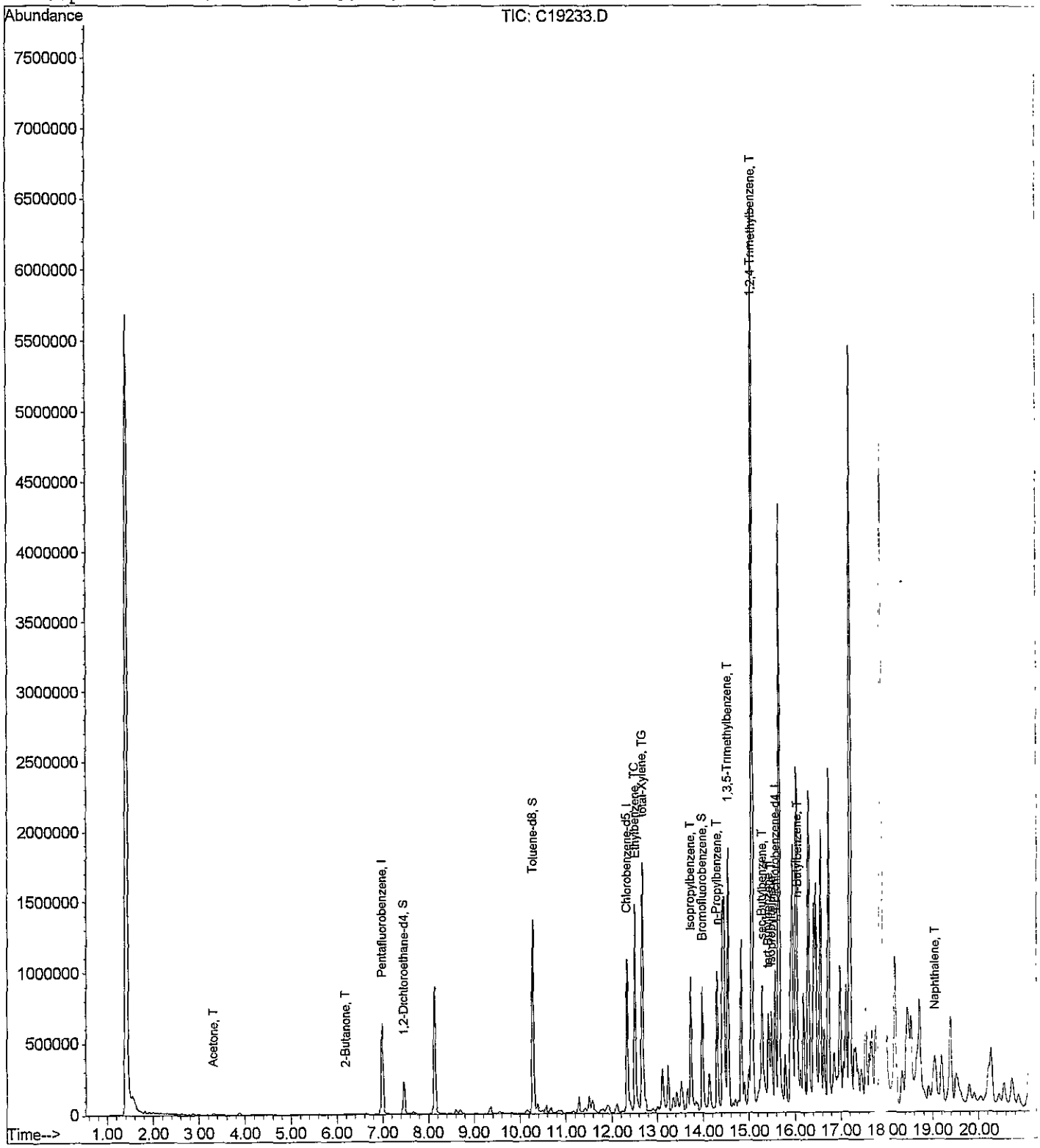
VRR 4.9.01

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\040301\C19233.D Vial: 5
Acq On : 04/03/01 19:12 Operator: JP/VRR
Sample : AC10502 25ml DF=1 Inst : VOA-C
Misc : 27420/C04030125 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 4 10:00 2001 Quant Results File: 04030125.RES

Method : c:\hpchem\1\data\040301\04030125.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Tue Apr 03 09:48:22 2001
Response via : Initial Calibration



LSC Area Percent Report

Data File : C:\HPCHEM\1\DATA\040301\C19233.D Vial: 5
Acq On : 04/03/01 19:12 Operator: JP/VRR
Sample : AC10502 25ml DF=1 Inst : VOA-C
Misc : 27420/C04030125 Multiplr: 1.00
MS Integration Params: LSCINT.P

Method : c:\hpchem\1\data\040301\04030125.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.02 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	peak area	peak % max.	% of total
1	1.416	132	149	165	rBV	5690478	20803829	100.00%	10.930%
2	6.985	1063	1075	1094	rBV	637290	1914674	9.20%	1.006%
3	7.460	1143	1154	1171	rBV	225517	672352	3.23%	0.353%
4	8.127	1255	1265	1285	rBV	895933	2396887	11.52%	1.259%
5	10.280	1613	1623	1633	rBV	1367620	3354640	16.13%	1.762%
6	11.279	1780	1789	1800	rBV	109598	254141	1.22%	0.134%
7	11.507	1819	1827	1832	rBV2	105422	241540	1.16%	0.127%
8	11.898	1884	1892	1908	rVB6	51619	223169	1.07%	0.117%
9	12.337	1955	1965	1985	rBV	1083053	2762313	13.28%	1.451%
10	12.506	1985	1993	2009	rBV	1457327	3389483	16.29%	1.781%
11	12.668	2009	2020	2030	rBV	1736583	4415297	21.22%	2.320%
12	13.107	2081	2093	2102	rVV4	295305	939557	4.52%	0.494%
13	13.227	2104	2113	2122	rVB	324412	800976	3.85%	0.421%
14	13.330	2122	2130	2138	rBV5	94625	292964	1.41%	0.154%
15	13.414	2138	2144	2152	rVV3	117469	296584	1.43%	0.156%
16	13.510	2153	2160	2174	rVB5	200351	656327	3.15%	0.345%
17	13.648	2174	2183	2189	rBV2	150966	396451	1.91%	0.208%
18	13.727	2189	2196	2208	rVB	913962	2133975	10.26%	1.121%
19	13.979	2227	2238	2250	rBV	870237	2206170	10.60%	1.159%
20	14.130	2255	2263	2275	rVB4	241922	766269	3.68%	0.403%
21	14.298	2283	2291	2301	rBV	958400	2127876	10.23%	1.118%
22	14.424	2303	2312	2315	rBV	1458734	3501027	16.83%	1.839%
23	14.539	2324	2331	2341	rVB	1837629	4192373	20.15%	2.203%
24	14.827	2371	2379	2386	rVV	1148857	2619753	12.59%	1.376%
25	14.893	2386	2390	2398	rVB3	158481	327884	1.58%	0.172%
26	14.996	2398	2407	2411	rBV3	244162	660472	3.17%	0.347%
27	15.068	2411	2419	2431	rVB	6364969	14730980	70.81%	7.739%
28	15.290	2450	2456	2471	rVB	759862	1898771	9.13%	0.998%
29	15.423	2471	2478	2483	rBV	556693	1283473	6.17%	0.674%
30	15.489	2484	2489	2496	rVB	593743	1334997	6.42%	0.701%
31	15.573	2496	2503	2509	rBV	885797	1931305	9.28%	1.015%
32	15.657	2509	2517	2532	rVB	4242802	9954068	47.85%	5.230%

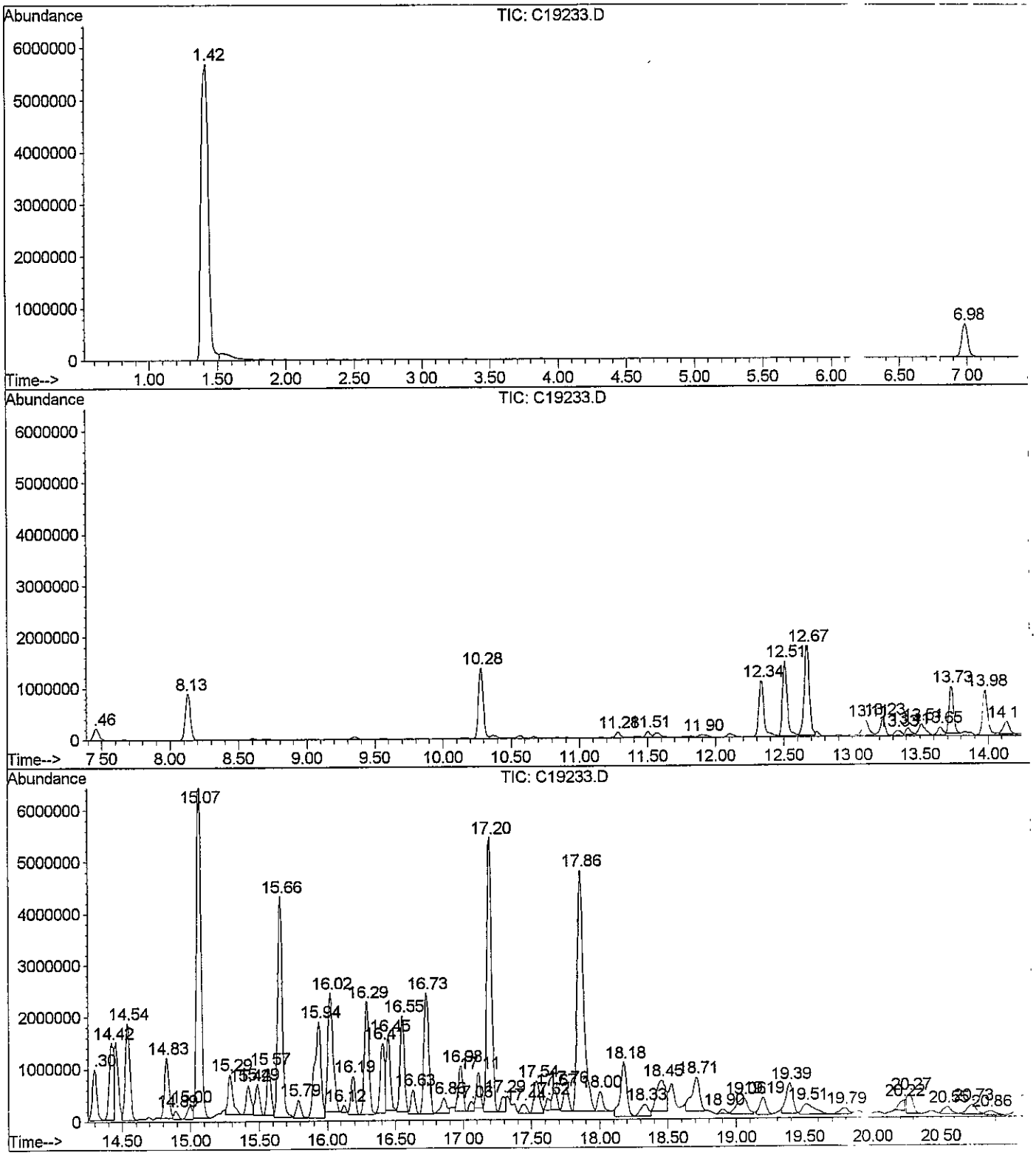
33	15.789	2532	2539	2549	rVB	338675	806147	3.87%	0.424%
34	15.940	2549	2564	2571	rBV2	1828611	6086836	29.26%	3.198%
35	16.024	2571	2578	2590	rVB4	2272399	6350015	30.52%	3.336%
36	16.120	2590	2594	2599	rVB2	124981	213890	1.03%	0.112%
37	16.192	2599	2606	2613	rVB	721659	1573089	7.56%	0.826%
38	16.289	2614	2622	2632	rBV	2151724	4917462	23.64%	2.584%
39	16.409	2633	2642	2645	rBV	1329756	3104775	14.92%	1.631%
40	16.451	2645	2649	2658	rVV	1426086	2987578	14.36%	1.570%
41	16.553	2659	2666	2673	rVB	1832445	3966701	19.07%	2.084%
42	16.631	2673	2679	2686	rVB	463892	1014400	4.88%	0.533%
43	16.728	2686	2695	2705	rBV3	2326867	5973814	28.71%	3.139%
44	16.860	2706	2717	2723	rBV3	289517	843901	4.06%	0.443%
45	16.980	2730	2737	2744	rVB2	867213	2126554	10.22%	1.117%
46	17.058	2744	2750	2753	rBV3	189000	398841	1.92%	0.210%
47	17.113	2753	2759	2765	rVB	666118	1422557	6.84%	0.747%
48	17.197	2765	2773	2783	rVB	5294299	12919281	62.10%	6.788%
49	17.293	2783	2789	2792	rBV	289852	677948	3.26%	0.356%
50	17.443	2807	2814	2822	rVB4	181183	540625	2.60%	0.284%
51	17.540	2822	2830	2838	rBV3	624379	1791572	8.61%	0.941%
52	17.618	2838	2843	2847	rBV	226196	502638	2.42%	0.264%
53	17.672	2847	2852	2858	rVB5	377535	912002	4.38%	0.479%
54	17.756	2858	2866	2873	rVB2	454336	1191436	5.73%	0.626%
55	17.858	2873	2883	2901	rBV2	4637409	15586833	74.92%	8.189%
56	18.003	2901	2907	2921	rVB3	381377	1018660	4.90%	0.535%
57	18.177	2924	2936	2949	rVB2	1037098	3438559	16.53%	1.807%
58	18.333	2950	2962	2969	rBV6	227290	911298	4.38%	0.479%
59	18.454	2969	2982	2989	rBV4	587257	2710664	13.03%	1.424%
60	18.712	3011	3025	3037	rVB2	641546	2655507	12.76%	1.395%
61	18.899	3050	3056	3064	rBV3	84776	253902	1.22%	0.133%
62	19.055	3066	3082	3094	rVV3	306584	1644042	7.90%	0.864%
63	19.193	3097	3105	3116	rVB4	325115	1052808	5.06%	0.553%
64	19.392	3128	3138	3148	rVB3	580884	2032802	9.77%	1.068%
65	19.512	3149	3158	3184	rVB10	199206	1194654	5.74%	0.628%
66	19.795	3192	3205	3213	rBV5	119902	481631	2.32%	0.253%
67	20.222	3266	3276	3278	rBV3	194547	593446	2.85%	0.312%
68	20.270	3280	3284	3300	rVB3	379446	1183581	5.69%	0.622%
69	20.547	3321	3330	3343	rVB3	137696	535526	2.57%	0.281%
70	20.727	3348	3360	3374	rVV5	186973	882643	4.24%	0.464%
71	20.859	3376	3382	3399	rVB10	85064	358806	1.72%	0.189%

Sum of corrected areas: 190338001

C19233.D 04030125.M Mon Apr 09 17:08:54 2001 INST:VOA-C

LSC Report - Integrated Chromatogram

File : C:\HPCHEM\1\DATA\040301\C19233.D
Operator : JP/VRR
Acquired : 3 Apr 2001 19:12 using AcqMethod 04030125
Instrument : VOA-C
Sample Name: AC10502 25ml DF=1
Misc Info : 27420/C04030125
Vial Number: 5
Quant File :04030125.RES (RTE Integrator)



C19233 04030125.M Mon Apr 09 17:08:55 2001 INST:VOA-C

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\040301\C19233.D Vial: 5
Acq On : 04/03/01 19:12 Operator: JP/VRR
Sample : AC10502 25ml DF=1 Inst : VOA-C
Misc : 27420/C04030125 Multiplr: 1.00
MS Integration Params: LSCINT.P

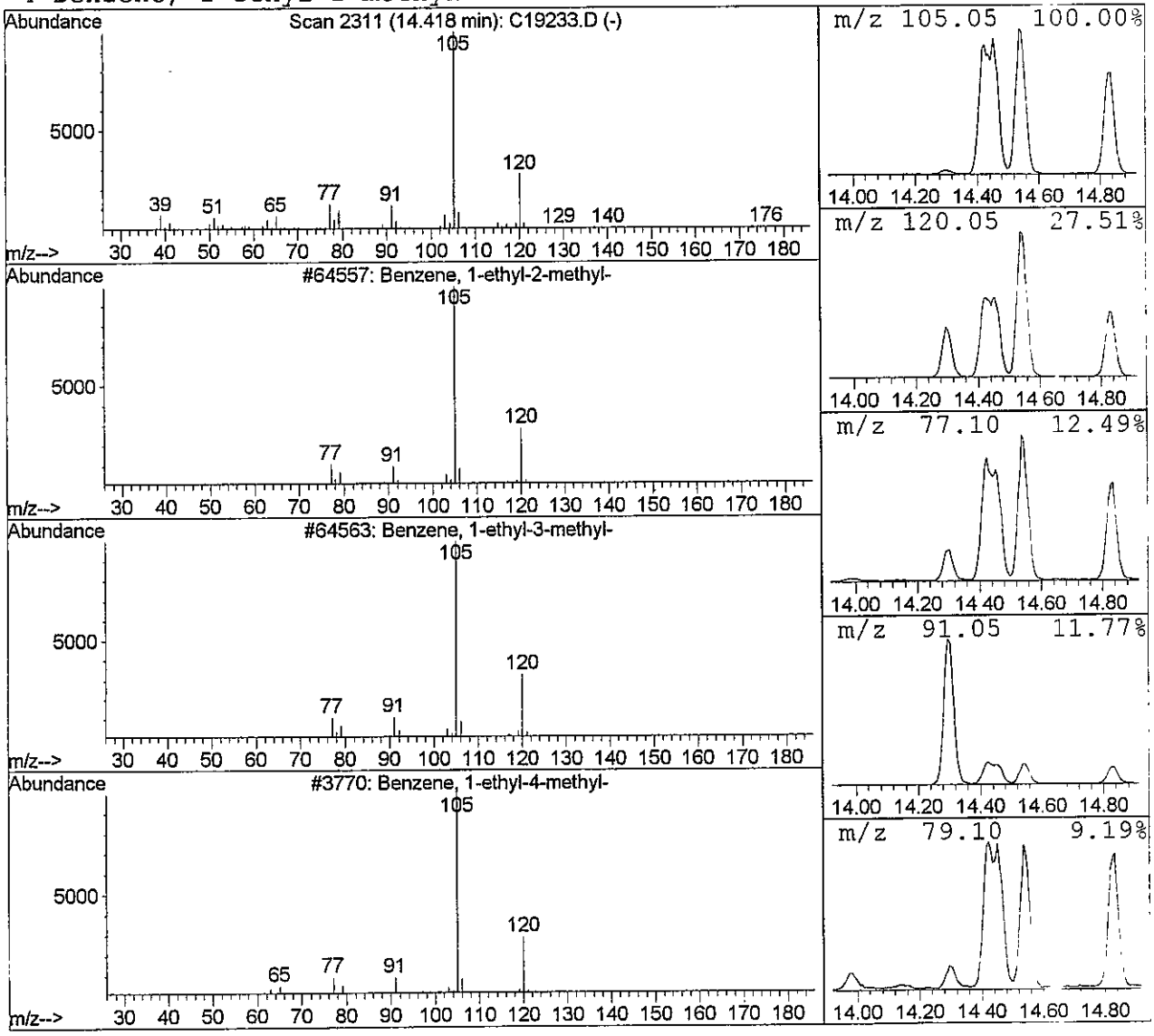
Quant Method : c:\hpchem\1\data\040301\04030125.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Library : C:\DATABASE\NBS75K.L

****

Peak Number 1 Benzene, 1-ethyl-2-methyl- Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.42	18.13 ug\L	3501030	1,4-Dichlorobenzene-d4	15.57

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1-ethyl-2-methyl-	120	C9H12	000611-14-3	95
2	Benzene, 1-ethyl-3-methyl-	120	C9H12	000620-14-4	95
3	Benzene, 1-ethyl-4-methyl-	120	C9H12	000622-96-8	95
4	Benzene, 1-ethyl-2-methyl-	120	C9H12	000611-14-3	95



Data File : C:\HPCHEM\1\DATA\040301\C19233.D Vial: 5
Acq On : 04/03/01 19:12 Operator: JP/VRR
Sample : AC10502 25ml DF=1 Inst : VOA-C
Misc : 27420/C04030125 Multiplr: 1.00
MS Integration Params: LSCINT.P

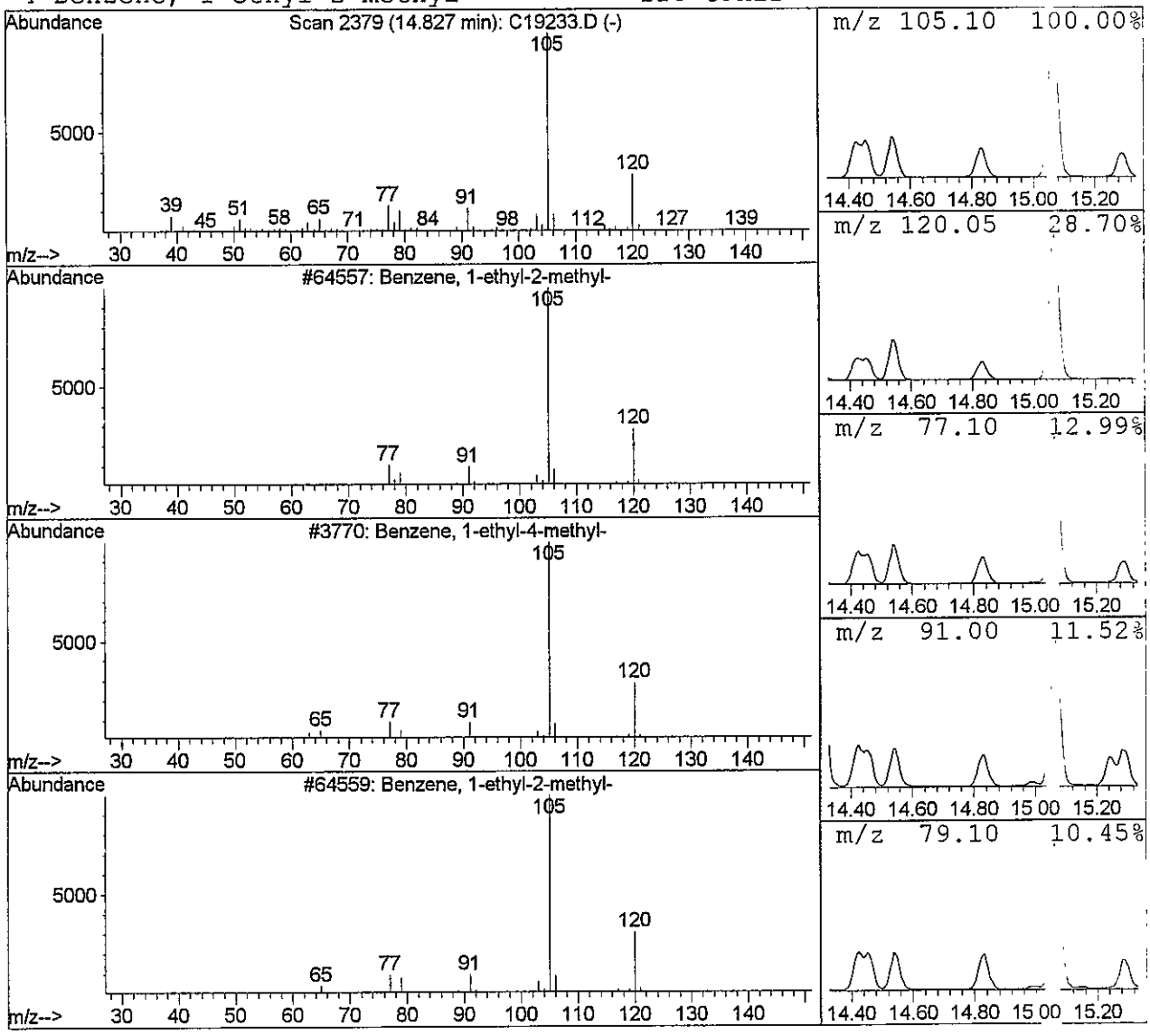
Quant Method : c:\hpchem\1\data\040301\04030125.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Library : C:\DATABASE\NBS75K.L

****

Peak Number 2 Benzene, 1-ethyl-2-methyl- Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.83	13.56 ug\L	2619750	1,4-Dichlorobenzene-d4	15.57

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1-ethyl-2-methyl-	120	C9H12	000611-14-3	94
2	Benzene, 1-ethyl-4-methyl-	120	C9H12	000622-96-8	94
3	Benzene, 1-ethyl-2-methyl-	120	C9H12	000611-14-3	94
4	Benzene, 1-ethyl-2-methyl-	120	C9H12	000611-14-3	94



Data File : C:\HPCHEM\1\DATA\040301\C19233.D Vial: 5
Acq On : 04/03/01 19:12 Operator: JP/VRR
Sample : AC10502 25ml DF=1 Inst : VOA-C
Misc : 27420/C04030125 Multiplr: 1.00
MS Integration Params: LSCINT.P

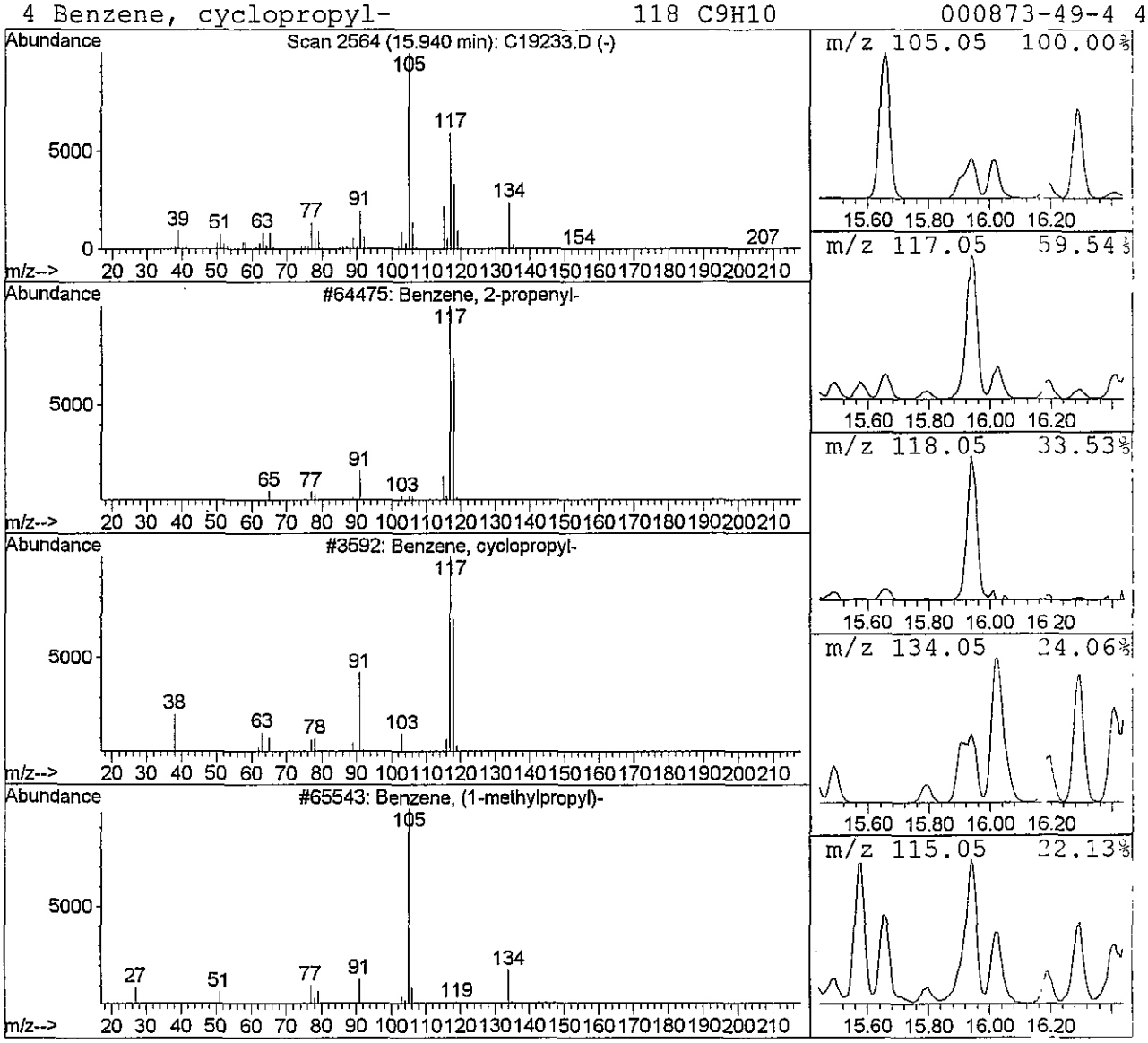
Quant Method : c:\hpchem\1\data\040301\04030125.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Library : C:\DATABASE\NBS75K.L

****

Peak Number 3 Benzene, 2-propenyl- Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.94	31.52 ug\L	6086840	1,4-Dichlorobenzene-d4	15.57

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 2-propenyl-	118	C9H10	000300-57-2	49
2	Benzene, cyclopropyl-	118	C9H10	000873-49-4	46
3	Benzene, (1-methylpropyl)-	134	C10H14	000135-98-8	42
4	Benzene, cyclopropyl-	118	C9H10	000873-49-4	41



Data File : C:\HPCHEM\1\DATA\040301\C19233.D
Acq On : 04/03/01 19:12
Sample : AC10502 25ml DF=1
Misc : 27420/C04030125
MS Integration Params: LSCINT.P

Vial: 5
Operator: JP/VRR
Inst : VOA-C
Multiplr: 1.00

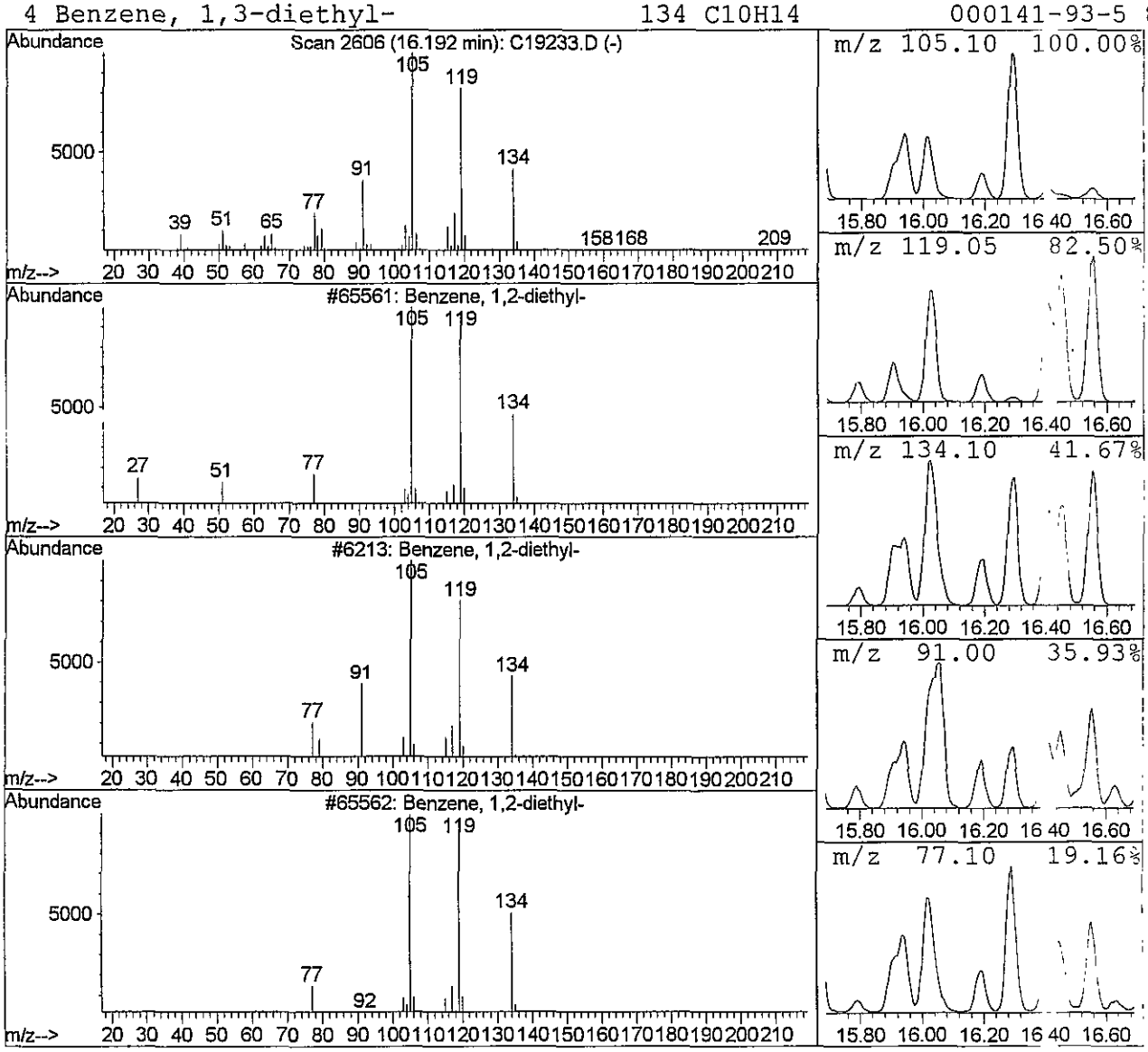
Quant Method : c:\hpchem\1\data\040301\04030125.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Library : C:\DATABASE\NBS75K.L

****

Peak Number 4 Benzene, 1,2-diethyl- Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.19	8.15 ug\L	1573090	1,4-Dichlorobenzene-d4	15.57

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1,2-diethyl-	134	C10H14	000135-01-3	96
2	Benzene, 1,2-diethyl-	134	C10H14	000135-01-3	94
3	Benzene, 1,2-diethyl-	134	C10H14	000135-01-3	93
4	Benzene, 1,3-diethyl-	134	C10H14	000141-93-5	87



Data File : C:\HPCHEM\1\DATA\040301\C19233.D Vial: 5
Acq On : 04/03/01 19:12 Operator: JP/VRR
Sample : AC10502 25ml DF=1 Inst : VOA-C
Misc : 27420/C04030125 Multiplr: 1.00
MS Integration Params: LSCINT.P

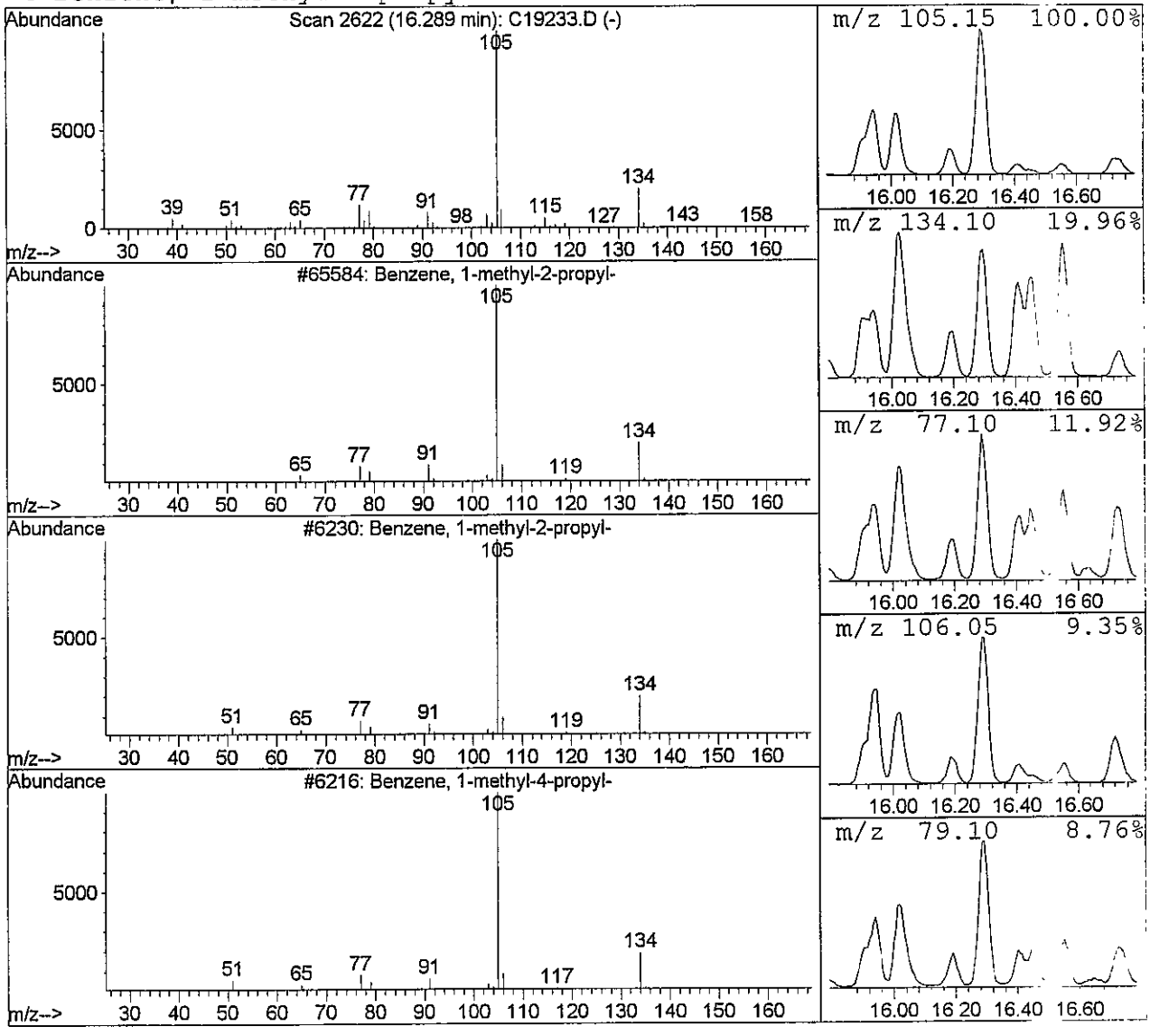
Quant Method : c:\hpchem\1\data\040301\04030125.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Library : C:\DATABASE\NBS75K.L

****

Peak Number 5 Benzene, 1-methyl-2-propyl- Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.29	25.46 ug\L	4917460	1,4-Dichlorobenzene-d4	15.57

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1-methyl-2-propyl-	134	C10H14	001074-17-5	93
2	Benzene, 1-methyl-2-propyl-	134	C10H14	001074-17-5	90
3	Benzene, 1-methyl-4-propyl-	134	C10H14	001074-55-1	90
4	Benzene, 1-methyl-2-propyl-	134	C10H14	001074-17-5	90



Data File : C:\HPCHEM\1\DATA\040301\C19233.D Vial: 5
Acq On : 04/03/01 19:12 Operator: JP/VRR
Sample : AC10502 25ml DF=1 Inst : VOA-C
Misc : 27420/C04030125 Multiplr: 1.00
MS Integration Params: LSCINT.P

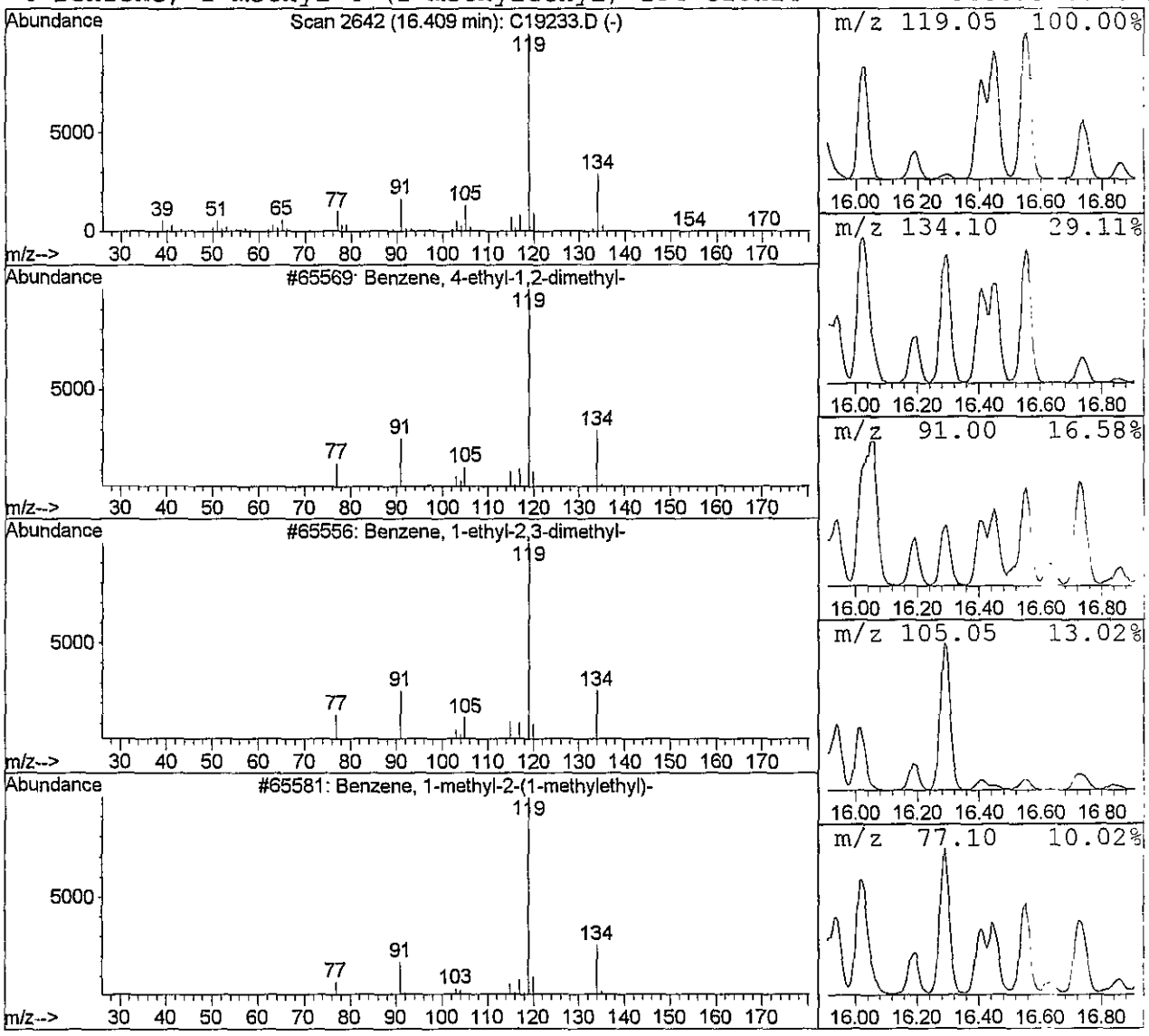
Quant Method : c:\hpchem\1\data\040301\04030125.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Library : C:\DATABASE\NBS75K.L

****

Peak Number 6 Benzene, 4-ethyl-1,2-dimethyl- Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.41	16.08 ug\L	3104780	1,4-Dichlorobenzene-d4	15.57

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 4-ethyl-1,2-dimethyl-	134	C10H14	000934-80-5	95
2	Benzene, 1-ethyl-2,3-dimethyl-	134	C10H14	000933-98-2	95
3	Benzene, 1-methyl-2-(1-methylethyl)	134	C10H14	000527-84-4	94
4	Benzene, 1-methyl-4-(1-methylethyl)	134	C10H14	000099-87-6	93



Data File : C:\HPCHEM\1\DATA\040301\C19233.D Vial: 5
Acq On : 04/03/01 19:12 Operator: JP/VRR
Sample : AC10502 25ml DF=1 Inst : VOA-C
Misc : 27420/C04030125 Multiplr: 1.00
MS Integration Params: LSCINT.P

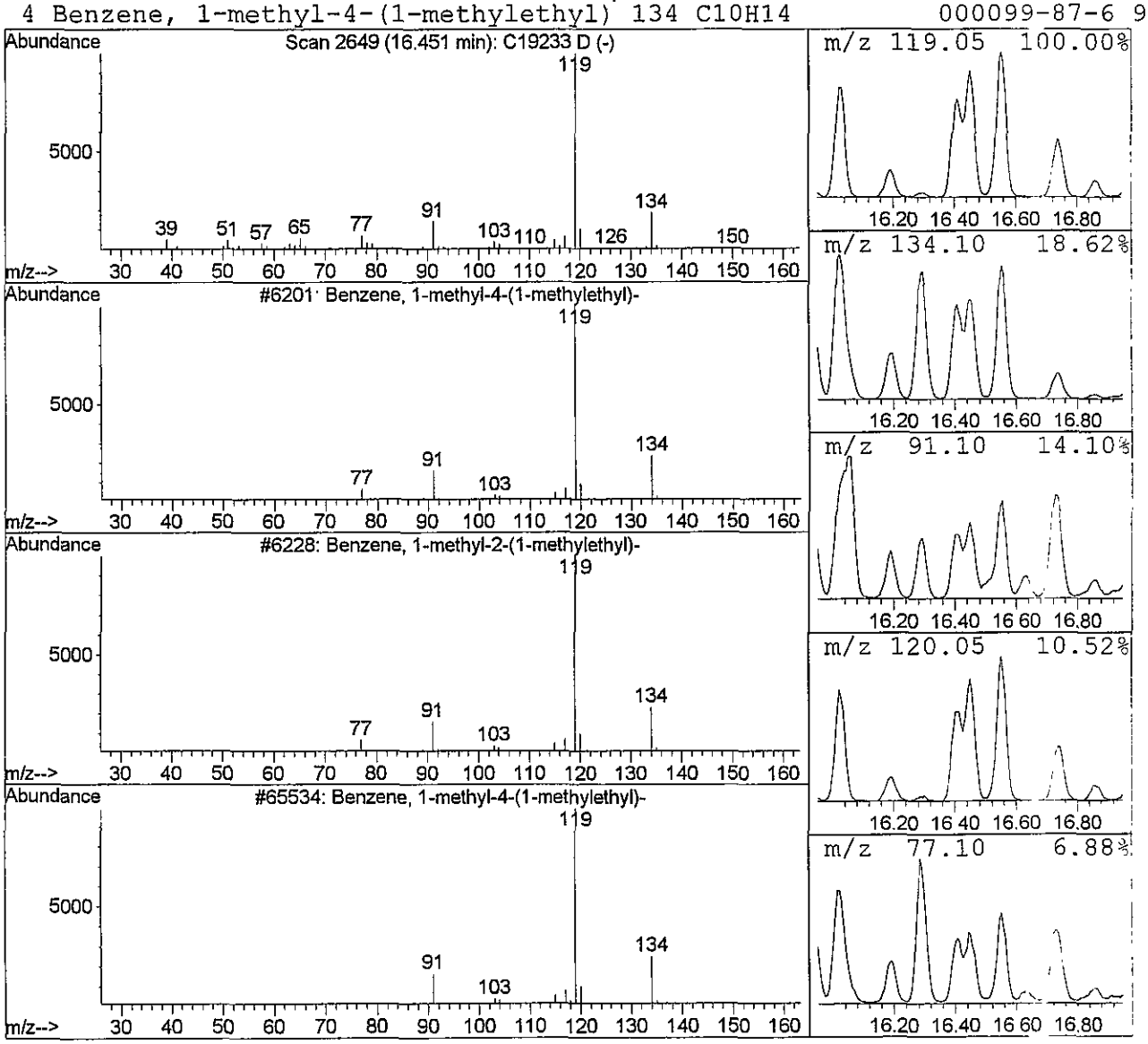
Quant Method : c:\hpchem\1\data\040301\04030125.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Library : C:\DATABASE\NBS75K.L

****

Peak Number 7 Benzene, 1-methyl-4-(1-methyle Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.45	15.47 ug\L	2987580	1,4-Dichlorobenzene-d4	15.57

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1-methyl-4-(1-methylethyl)	134	C10H14	000099-87-6	94
2	Benzene, 1-methyl-2-(1-methylethyl)	134	C10H14	000527-84-4	94
3	Benzene, 1-methyl-4-(1-methylethyl)	134	C10H14	000099-87-6	91
4	Benzene, 1-methyl-4-(1-methylethyl)	134	C10H14	000099-87-6	91



Data File : C:\HPCHEM\1\DATA\040301\C19233.D Vial: 5
Acq On : 04/03/01 19:12 Operator: JP/VRR
Sample : AC10502 25ml DF=1 Inst : VOA-C
Misc : 27420/C04030125 Multiplr: 1.00
MS Integration Params: LSCINT.P

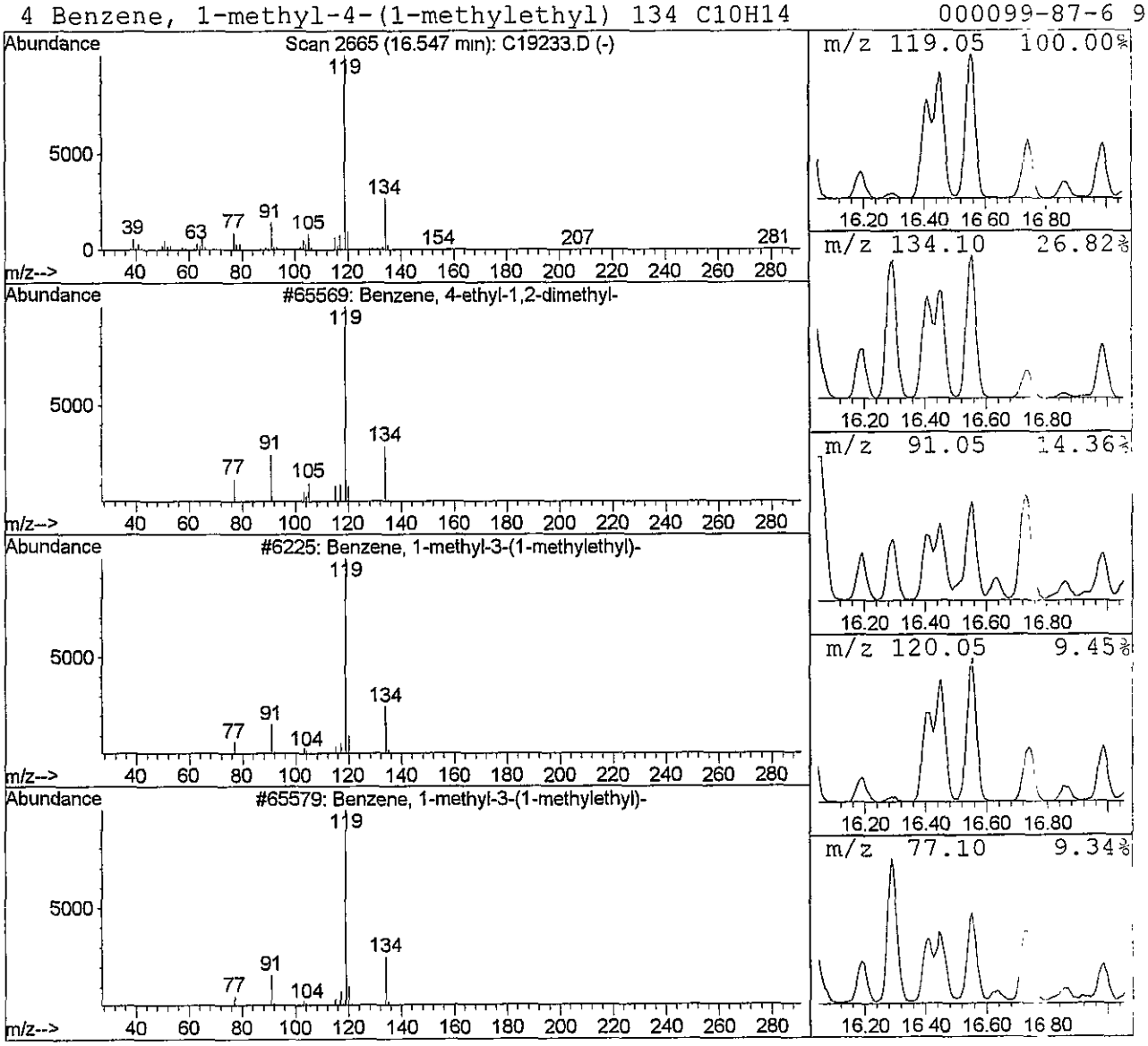
Quant Method : c:\hpchem\1\data\040301\04030125.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Library : C:\DATABASE\NBS75K.L

****

Peak Number 8 Benzene, 4-ethyl-1,2-dimethyl- Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.55	20.54 ug\L	3966700	1,4-Dichlorobenzene-d4	15.57

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 4-ethyl-1,2-dimethyl-	134	C10H14	000934-80-5	95
2	Benzene, 1-methyl-3-(1-methylethyl)	134	C10H14	000535-77-3	94
3	Benzene, 1-methyl-3-(1-methylethyl)	134	C10H14	000535-77-3	94
4	Benzene, 1-methyl-4-(1-methylethyl)	134	C10H14	000099-87-6	94



Data File : C:\HPCHEM\1\DATA\040301\C19233.D Vial: 5
Acq On : 04/03/01 19:12 Operator: JP/VRR
Sample : AC10502 25ml DF=1 Inst : VOA-C
Misc : 27420/C04030125 Multiplr: 1.00
MS Integration Params: LSCINT.P

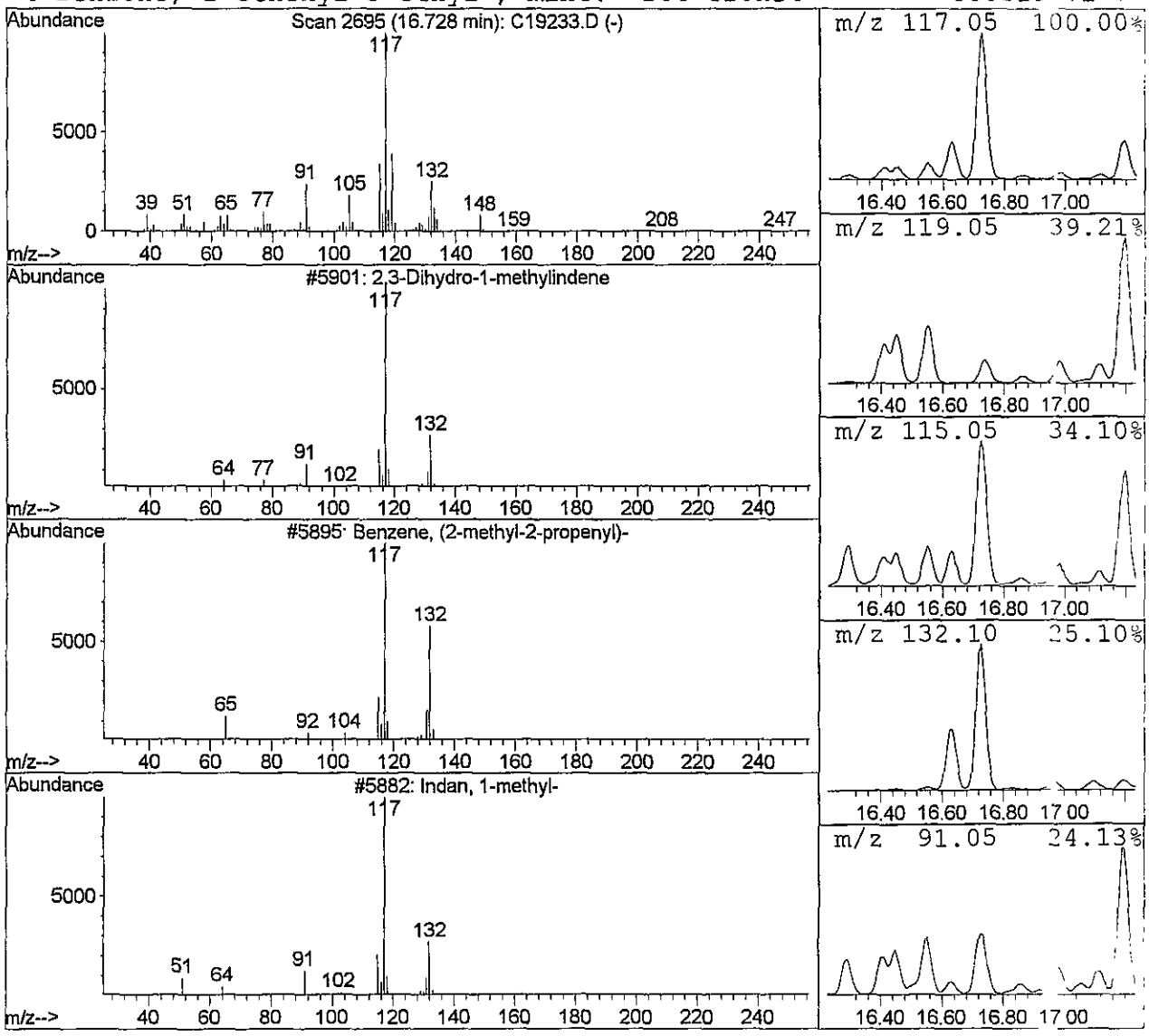
Quant Method : c:\hpchem\1\data\040301\04030125.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Library : C:\DATABASE\NBS75K.L

****

Peak Number 9 2,3-Dihydro-1-methylindene Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.73	30.93 ug\L	5973810	1,4-Dichlorobenzene-d4	15.57

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2,3-Dihydro-1-methylindene	132	C10H12	027133-93-3	58
2	Benzene, (2-methyl-2-propenyl)-	132	C10H12	003290-53-7	58
3	Indan, 1-methyl-	132	C10H12	000767-58-8	53
4	Benzene, 1-ethenyl-3-ethyl-, mixt.	264	C20H24	055319-72-7	52



Data File : C:\HPCHEM\1\DATA\040301\C19233.D Vial: 5
Acq On : 04/03/01 19:12 Operator: JP/VRR
Sample : AC10502 25ml DF=1 Inst : VOA-C
Misc : 27420/C04030125 Multiplr: 1.00
MS Integration Params: LSCINT.P

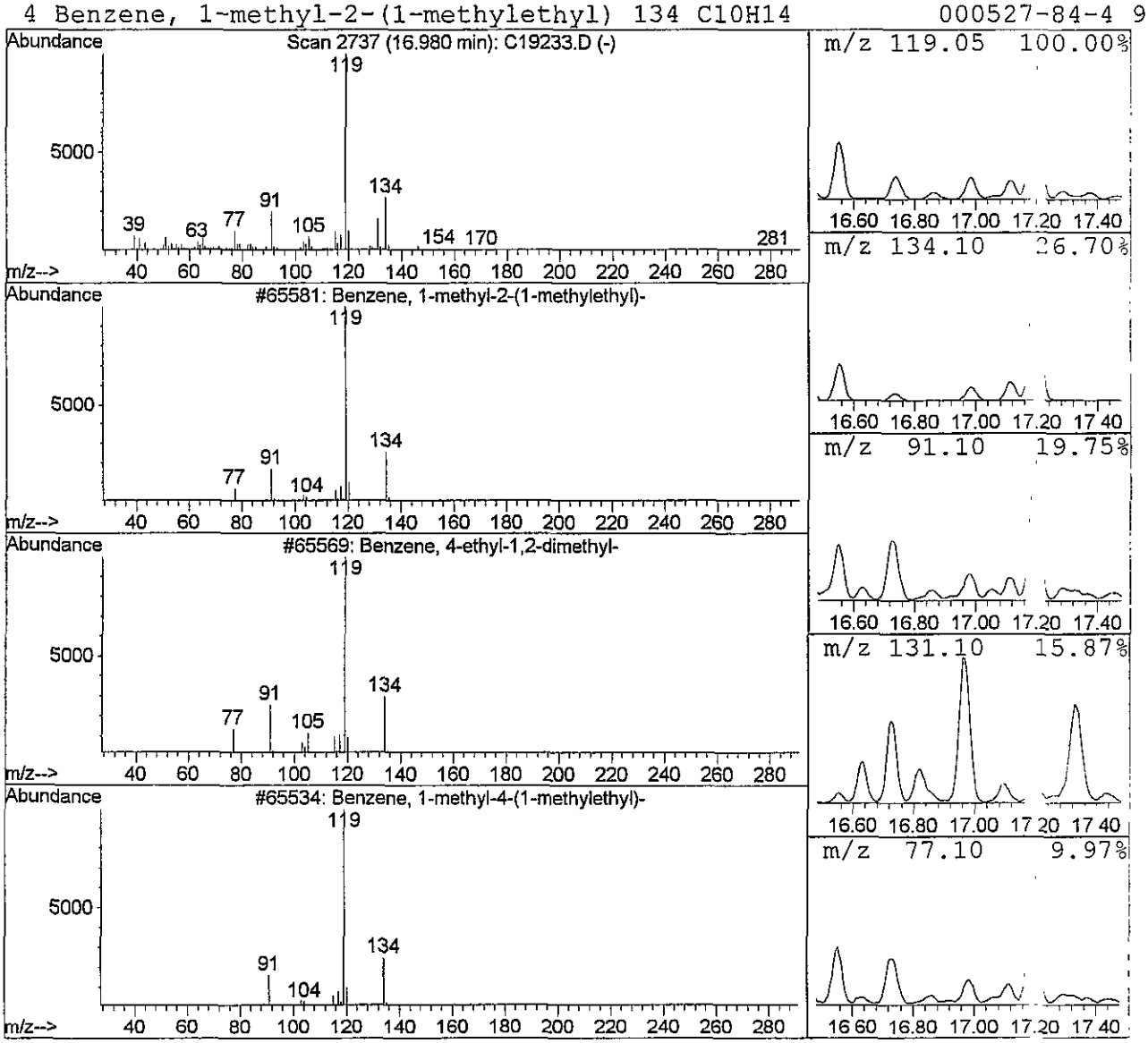
Quant Method : c:\hpchem\1\data\040301\04030125.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Library : C:\DATABASE\NBS75K.L

****

Peak Number 10 Benzene, 1-methyl-2-(1-methyle Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.98	11.01 ug\L	2126550	1,4-Dichlorobenzene-d4	15.57

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1-methyl-2-(1-methylethyl)	134	C10H14	000527-84-4	94
2	Benzene, 4-ethyl-1,2-dimethyl-	134	C10H14	000934-80-5	93
3	Benzene, 1-methyl-4-(1-methylethyl)	134	C10H14	000099-87-6	93
4	Benzene, 1-methyl-2-(1-methylethyl)	134	C10H14	000527-84-4	93



Data File : C:\HPCHEM\1\DATA\040301\C19233.D Vial: 5
Acq On : 04/03/01 19:12 Operator: JP/VRR
Sample : AC10502 25ml DF=1 Inst : VOA-C
Misc : 27420/C04030125 Multiplr: 1.00
MS Integration Params: LSCINT.P

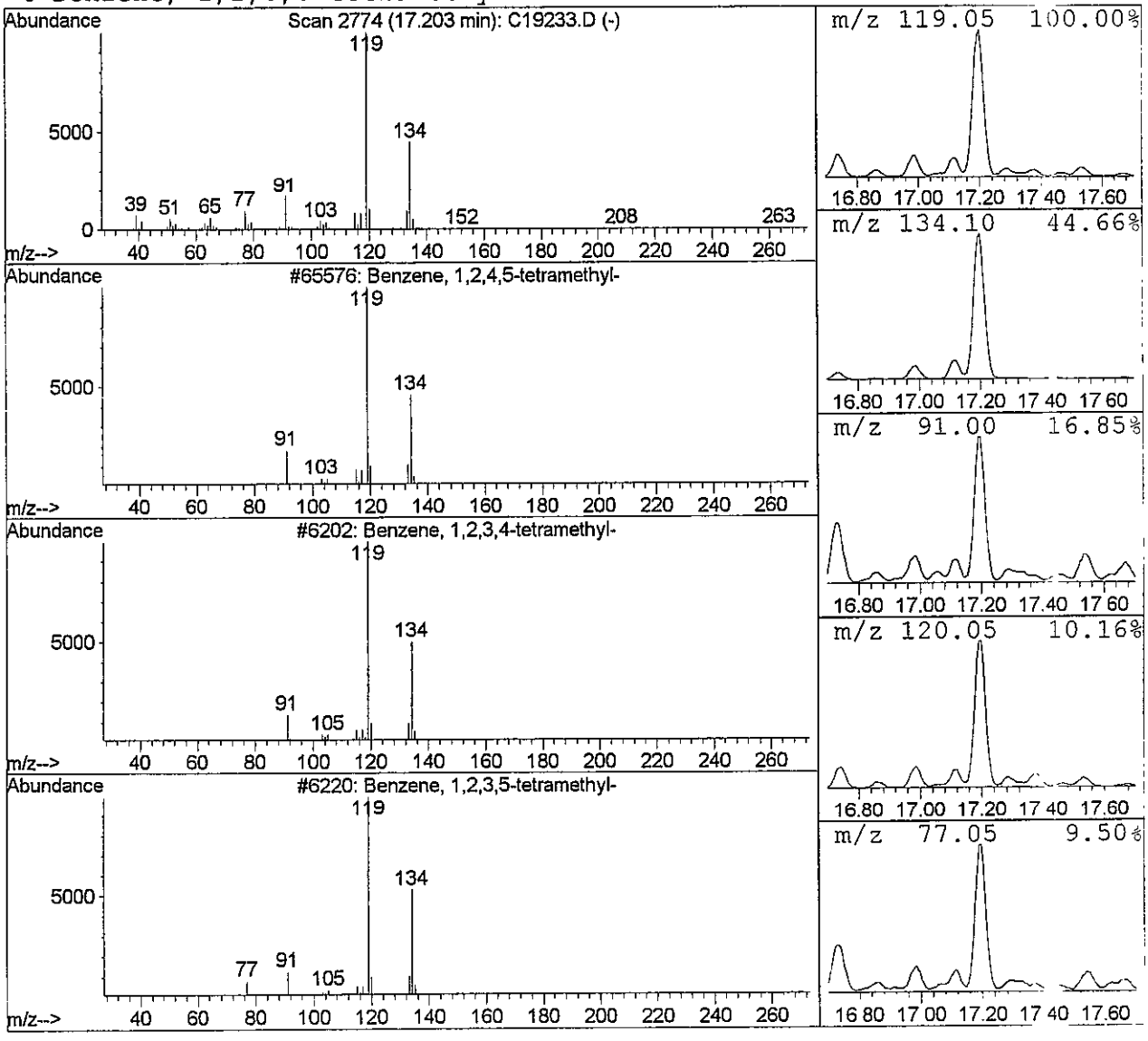
Quant Method : c:\hpchem\1\data\040301\04030125.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Library : C:\DATABASE\NBS75K.L

****

Peak Number 11 Benzene, 1,2,4,5-tetramethyl- Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.20	66.89 ug\L	12919300	1,4-Dichlorobenzene-d4	15.57

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1,2,4,5-tetramethyl-	134	C10H14	000095-93-2	97
2	Benzene, 1,2,3,4-tetramethyl-	134	C10H14	000488-23-3	95
3	Benzene, 1,2,3,5-tetramethyl-	134	C10H14	000527-53-7	94
4	Benzene, 1,2,3,5-tetramethyl-	134	C10H14	000527-53-7	94



Data File : C:\HPCHEM\1\DATA\040301\C19233.D Vial: 5
Acq On : 04/03/01 19:12 Operator: JP/VRR
Sample : AC10502 25ml DF=1 Inst : VOA-C
Misc : 27420/C04030125 Multiplr: 1.00
MS Integration Params: LSCINT.P

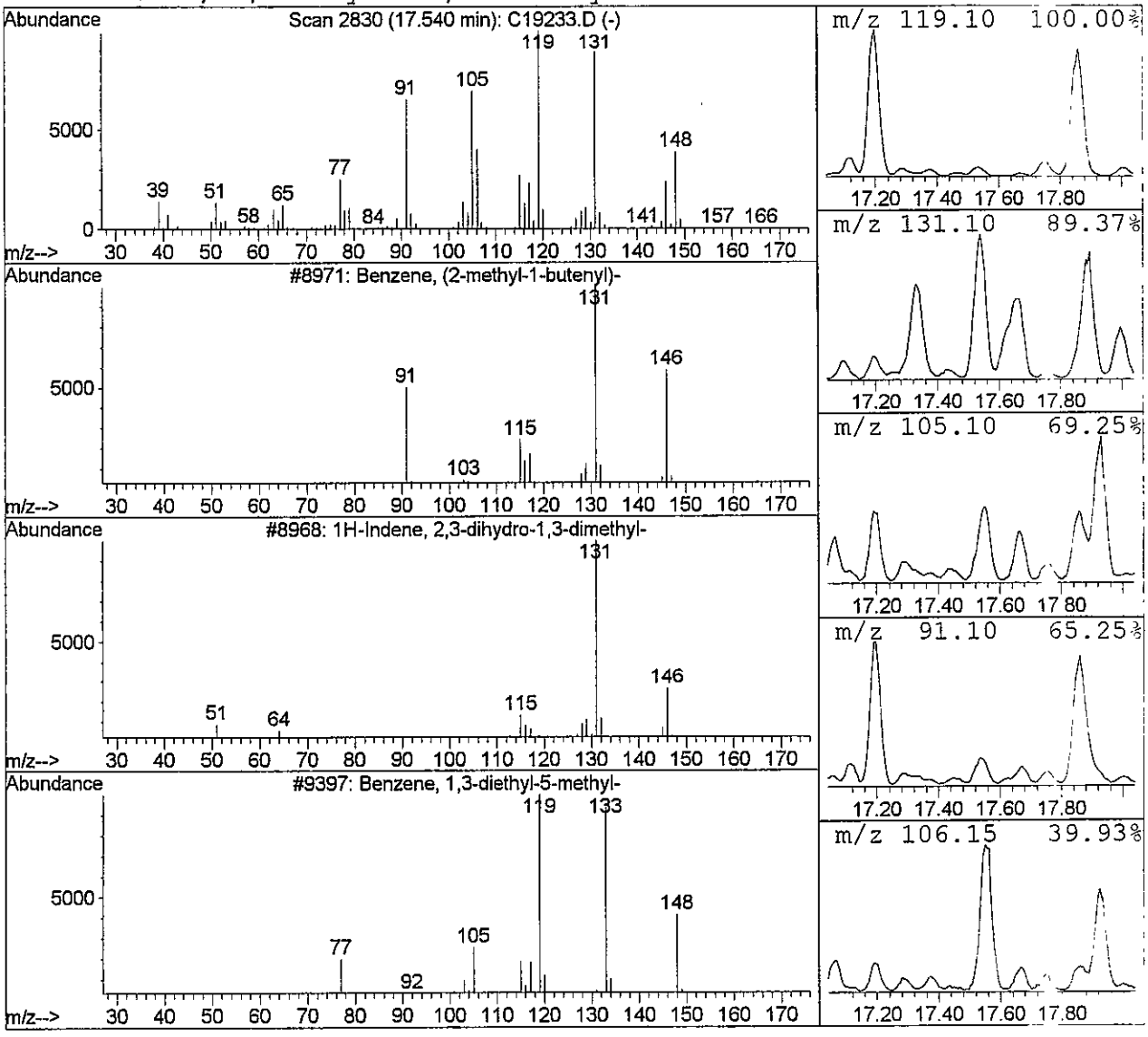
Quant Method : c:\hpchem\1\data\040301\04030125.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Library : C:\DATABASE\NBS75K.L

****

Peak Number 12 Benzene, (2-methyl-1-butenyl)- Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.54	9.28 ug\L	1791570	1,4-Dichlorobenzene-d4	15.57

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, (2-methyl-1-butenyl)-	146	C11H14	056253-64-6	52
2	1H-Indene, 2,3-dihydro-1,3-dimethyl	146	C11H14	004175-53-5	38
3	Benzene, 1,3-diethyl-5-methyl-	148	C11H16	002050-24-0	38
4	1H-Indene, 2,3-dihydro-1,2-dimethyl	146	C11H14	017057-82-8	30



Data File : C:\HPCHEM\1\DATA\040301\C19233.D Vial: 5
Acq On : 04/03/01 19:12 Operator: JP/VRR
Sample : AC10502 25ml DF=1 Inst : VOA-C
Misc : 27420/C04030125 Multiplr: 1.00
MS Integration Params: LSCINT.P

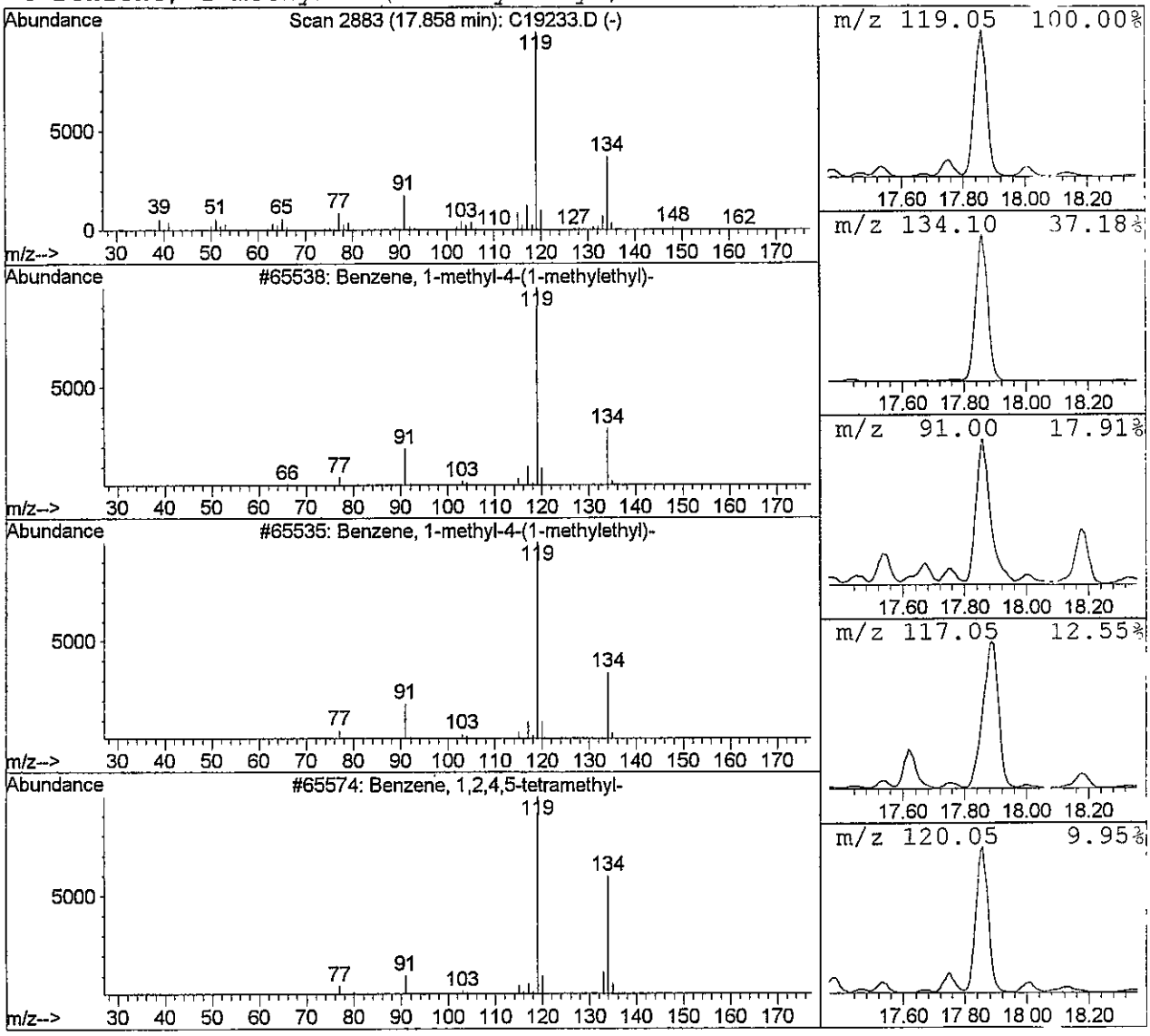
Quant Method : c:\hpchem\1\data\040301\04030125.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Library : C:\DATABASE\NBS75K.L

****

Peak Number 13 Benzene, 1-methyl-4-(1-methyle Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.86	80.71 ug\L	15586800	1,4-Dichlorobenzene-d4	15.57

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1-methyl-4-(1-methylethyl)	134	C10H14	000099-87-6	95
2	Benzene, 1-methyl-4-(1-methylethyl)	134	C10H14	000099-87-6	94
3	Benzene, 1,2,4,5-tetramethyl-	134	C10H14	000095-93-2	94
4	Benzene, 1-methyl-2-(1-methylethyl)	134	C10H14	000527-84-4	94



Data File : C:\HPCHEM\1\DATA\040301\C19233.D Vial: 5
Acq On : 04/03/01 19:12 Operator: JP/VRR
Sample : AC10502 25ml DF=1 Inst : VOA-C
Misc : 27420/C04030125 Multiplr: 1.00
MS Integration Params: LSCINT.P

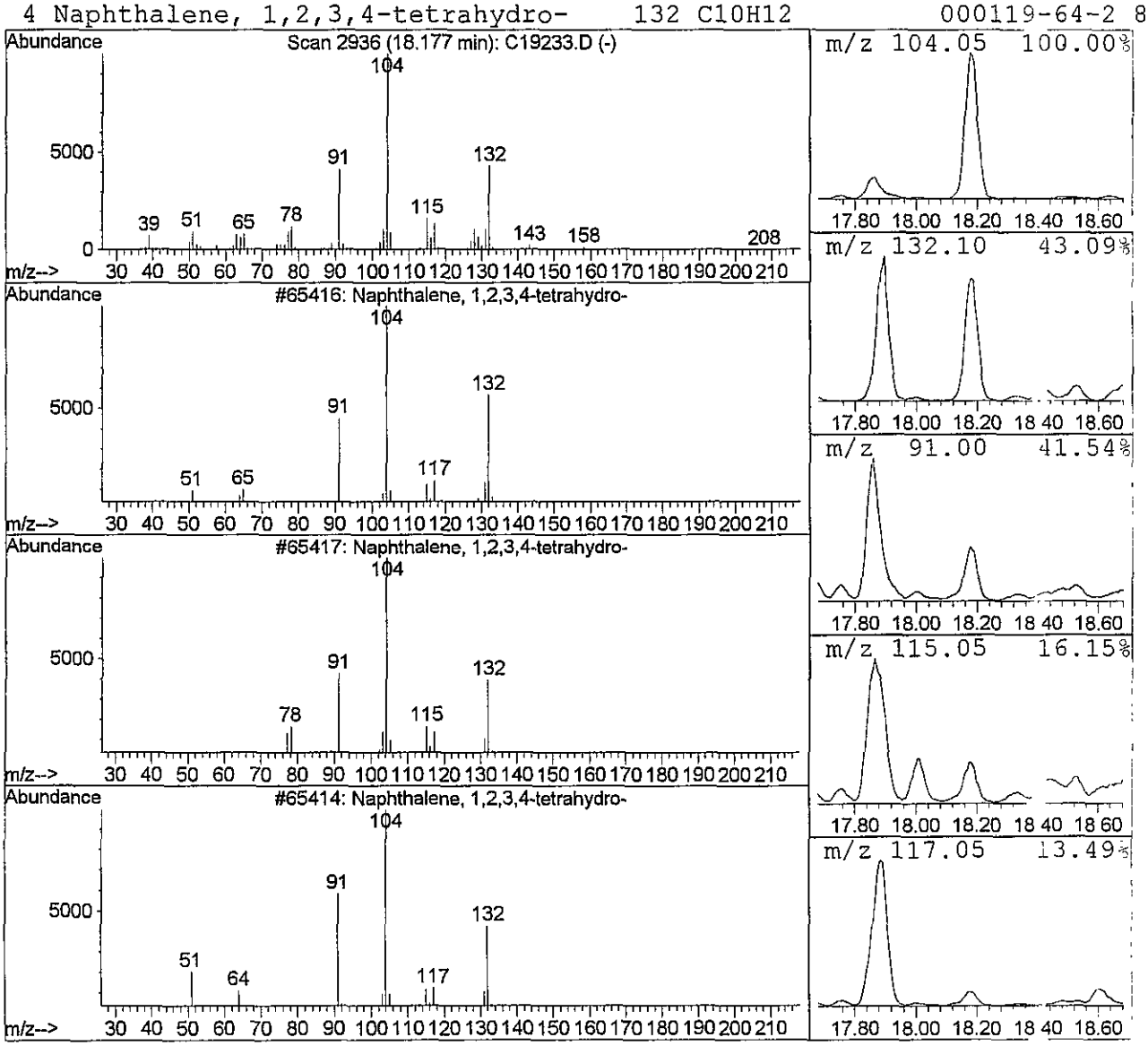
Quant Method : c:\hpchem\1\data\040301\04030125.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Library : C:\DATABASE\NBS75K.L

****

Peak Number 14 Naphthalene, 1,2,3,4-tetrahydr Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.18	17.80 ug\L	3438560	1,4-Dichlorobenzene-d4	15.57

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 1,2,3,4-tetrahydro-	132	C10H12	000119-64-2	93
2	Naphthalene, 1,2,3,4-tetrahydro-	132	C10H12	000119-64-2	93
3	Naphthalene, 1,2,3,4-tetrahydro-	132	C10H12	000119-64-2	93
4	Naphthalene, 1,2,3,4-tetrahydro-	132	C10H12	000119-64-2	86



Data File : C:\HPCHEM\1\DATA\040301\C19233.D Vial: 5
Acq On : 04/03/01 19:12 Operator: JP/VRR
Sample : AC10502 25ml DF=1 Inst : VOA-C
Misc : 27420/C04030125 Multiplr: 1.00
MS Integration Params: LSCINT.P

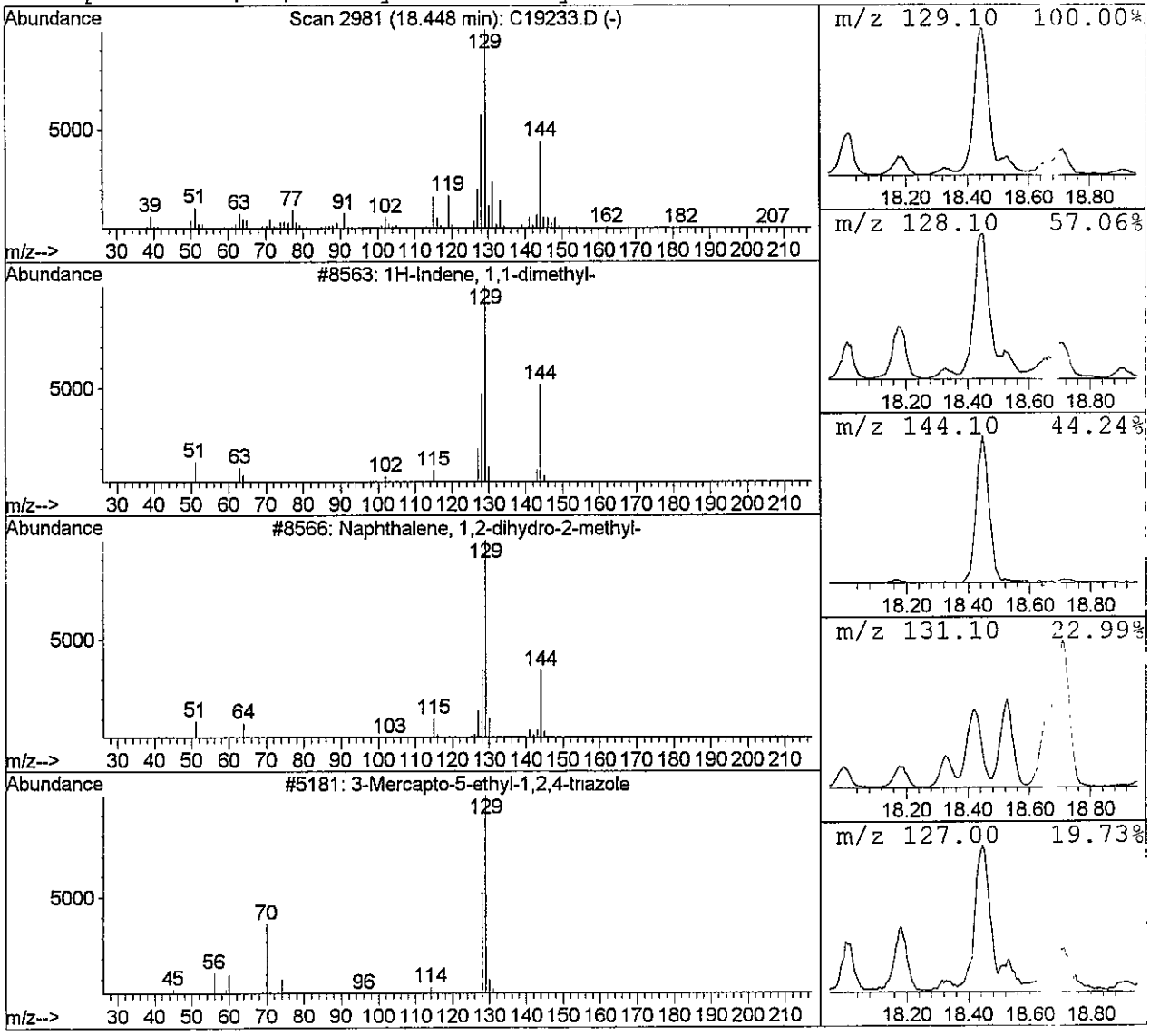
Quant Method : c:\hpchem\1\data\040301\04030125.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Library : C:\DATABASE\NBS75K.L

****

Peak Number 15 1H-Indene, 1,1-dimethyl- Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.45	14.04 ug\L	2710660	1,4-Dichlorobenzene-d4	15.57

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1H-Indene, 1,1-dimethyl-	144	C11H12	018636-55-0	89
2	Naphthalene, 1,2-dihydro-2-methyl-	144	C11H12	021564-79-4	58
3	3-Mercapto-5-ethyl-1,2,4-triazole	129	C4H7N3S	007271-45-6	38
4	Naphthalene, 1,2-dihydro-6-methyl-	144	C11H12	002717-47-7	38



Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\040301\C19233.D Vial: 5
Acq On : 04/03/01 19:12 Operator: JP/VRR
Sample : AC10502 25ml DF=1 Inst : VOA-C
Misc : 27420/C04030125 Multiplr: 1.00
MS Integration Params: LSCINT.P

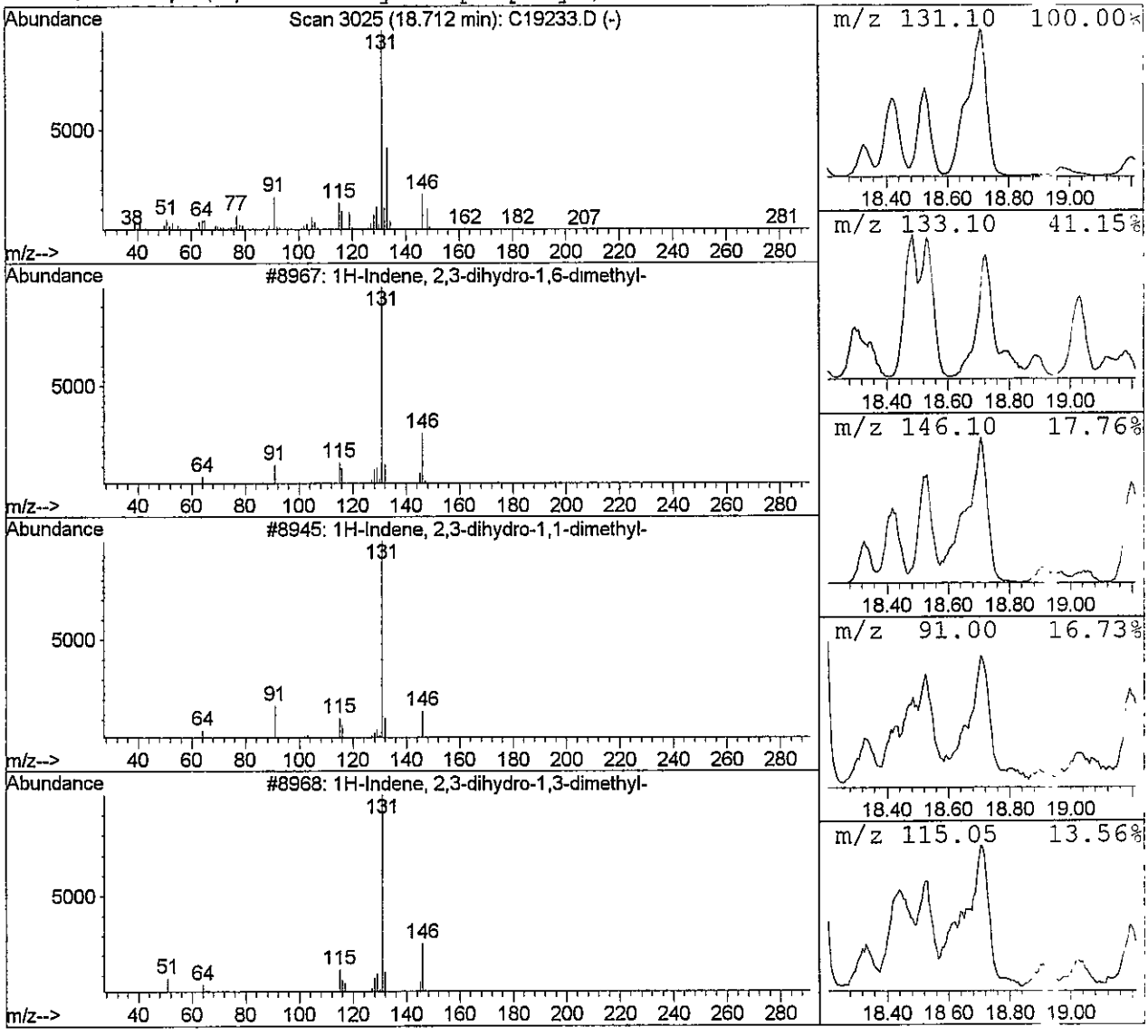
Quant Method : c:\hpchem\1\data\040301\04030125.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Library : C:\DATABASE\NBS75K.L

****

Peak Number 16 1H-Indene, 2,3-dihydro-1,6-dim Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.71	13.75 ug\L	2655510	1,4-Dichlorobenzene-d4	15.57

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1H-Indene, 2,3-dihydro-1,6-dimethyl	146	C11H14	017059-48-2	64
2	1H-Indene, 2,3-dihydro-1,1-dimethyl	146	C11H14	004912-92-9	64
3	1H-Indene, 2,3-dihydro-1,3-dimethyl	146	C11H14	004175-53-5	64
4	Benzene, (1,1-dimethyl-2-propenyl)-	146	C11H14	018321-36-3	52



Data File : C:\HPCHEM\1\DATA\040301\C19233.D Vial: 5
Acq On : 04/03/01 19:12 Operator: JP/VRR
Sample : AC10502 25ml DF=1 Inst : VOA-C
Misc : 27420/C04030125 Multiplr: 1.00
MS Integration Params: LSCINT.P

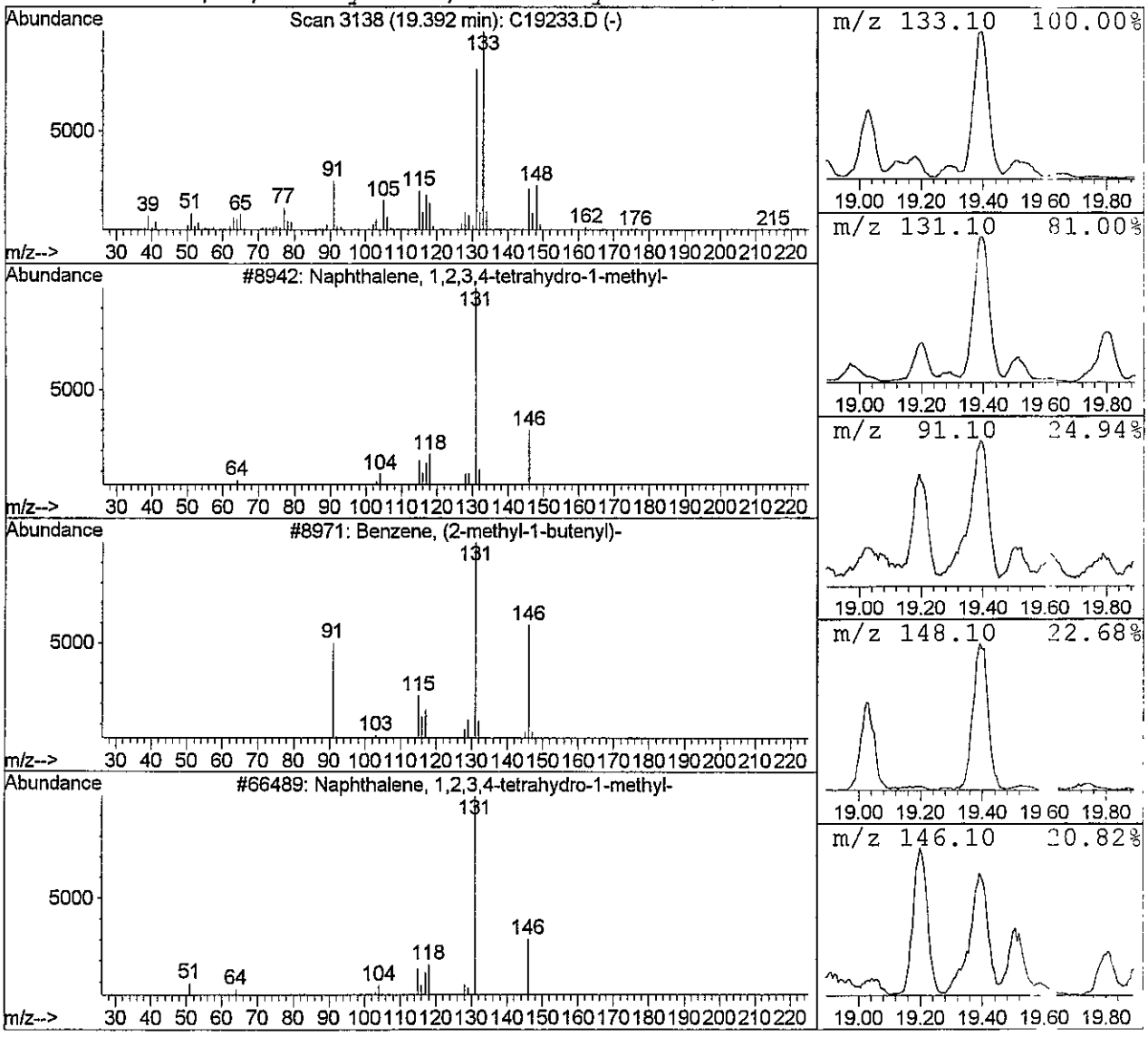
Quant Method : c:\hpchem\1\data\040301\04030125.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Library : C:\DATABASE\NBS75K.L

****

Peak Number 17 Naphthalene, 1,2,3,4-tetrahydr Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.39	10.53 ug\L	2032800	1,4-Dichlorobenzene-d4	15.57

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 1,2,3,4-tetrahydro-1-m	146	C11H14	001559-81-5	50
2	Benzene, (2-methyl-1-butenyl)-	146	C11H14	056253-64-6	50
3	Naphthalene, 1,2,3,4-tetrahydro-1-m	146	C11H14	001559-81-5	50
4	1H-Indene, 2,3-dihydro-1,3-dimethyl	146	C11H14	004175-53-5	46



Tentatively Identified Compound (LSC) summary

Operator ID: JP/VRR Date Acquired: 3 Apr 2001 19:12
Data File: C:\HPCHEM\1\DATA\040301\C19233.D
Name: AC10502 25ml DF=1
Misc: 27420/C04030125
Method: c:\hpchem\1\data\040301\04030125.M (RTE Integrator)
Title: 8260 CALIBRATION FOR 25ML WATER
Library Searched: C:\DATABASE\NBS75K.L

TIC Top Hit name	RT	EstConc	Units	Area	IntStd	ISRT	ISArea	ISConc
Benzene, 1-ethyl-2-m	14.42	18.1	ug\L	3501030	ISTD04	15.57	1931310	10.0
Benzene, 1-ethyl-2-m	14.83	13.6	ug\L	2619750	ISTD04	15.57	1931310	10.0
Benzene, 2-propenyl-	15.94	31.5	ug\L	6086840	ISTD04	15.57	1931310	10.0
Benzene, 1,2-diethyl	16.19	8.1	ug\L	1573090	ISTD04	15.57	1931310	10.0
Benzene, 1-methyl-2-	16.29	25.5	ug\L	4917460	ISTD04	15.57	1931310	10.0
Benzene, 4-ethyl-1,2	16.41	16.1	ug\L	3104780	ISTD04	15.57	1931310	10.0
Benzene, 1-methyl-4-	16.45	15.5	ug\L	2987580	ISTD04	15.57	1931310	10.0
Benzene, 4-ethyl-1,2	16.55	20.5	ug\L	3966700	ISTD04	15.57	1931310	10.0
2,3-Dihydro-1-methyl	16.73	30.9	ug\L	5973810	ISTD04	15.57	1931310	10.0
Benzene, 1-methyl-2-	16.98	11.0	ug\L	2126550	ISTD04	15.57	1931310	10.0
Benzene, 1,2,4,5-tet	17.20	66.9	ug\L	12919300	ISTD04	15.57	1931310	10.0
Benzene, (2-methyl-1	17.54	9.3	ug\L	1791570	ISTD04	15.57	1931310	10.0
Benzene, 1-methyl-4-	17.86	80.7	ug\L	15586800	ISTD04	15.57	1931310	10.0
Naphthalene, 1,2,3,4	18.18	17.8	ug\L	3438560	ISTD04	15.57	1931310	10.0
1H-Indene, 1,1-dimet	18.45	14.0	ug\L	2710660	ISTD04	15.57	1931310	10.0
1H-Indene, 2,3-dihyd	18.71	13.7	ug\L	2655510	ISTD04	15.57	1931310	10.0
Naphthalene, 1,2,3,4	19.39	10.5	ug\L	2032800	ISTD04	15.57	1931310	10.0

C19233.D 04030125.M Mon Apr 09 17:09:21 2001 INST:VOA-C

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\040301\C19234.D Vial: 6
Acq On : 04/03/01 19:37 Operator: JP/VRR
Sample : AC10503 25ml DF=1 Inst : VOA-C
Misc : 27420/C04030125 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 4 10:01 2001 Quant Results File: 04030125.RES

Quant Method : c:\hpchem\1\data\040301\04030125.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Tue Apr 03 09:48:22 2001
Response via : Initial Calibration
DataAcq Meth : 04030125

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	6.99	168	687849	10.00	ug\L	0.02
45) Chlorobenzene-d5	12.33	117	886418	10.00	ug\L	0.00
61) 1,4-Dichlorobenzene-d4	15.57	152	322103	10.00	ug\L	0.00
88) 1.4-Difluorobenzene	0.00	116	0m	10.00	ug\L	-8.12
System Monitoring Compounds						
32) 1,2-Dichloroethane-d4	7.46	65	242924	10.25	ug\L	0.02
Spiked Amount 10.000	Range 80 - 120		Recovery = 102.50%			
46) Toluene-d8	10.28	98	1373895	10.44	ug\L	0.01
Spiked Amount 10.000	Range 87 - 104		Recovery = 104.40%			
66) Bromofluorobenzene	13.97	95	380462	10.92	ug\L	0.00
Spiked Amount 10.000	Range 84 - 110		Recovery = 109.20%			
Target Compounds						Qvalue
11) Acetone	3.33	58	1978	1.02	ug\L	87
16) Methylene Chloride	3.88	86	9913	0.59	ug\L	98

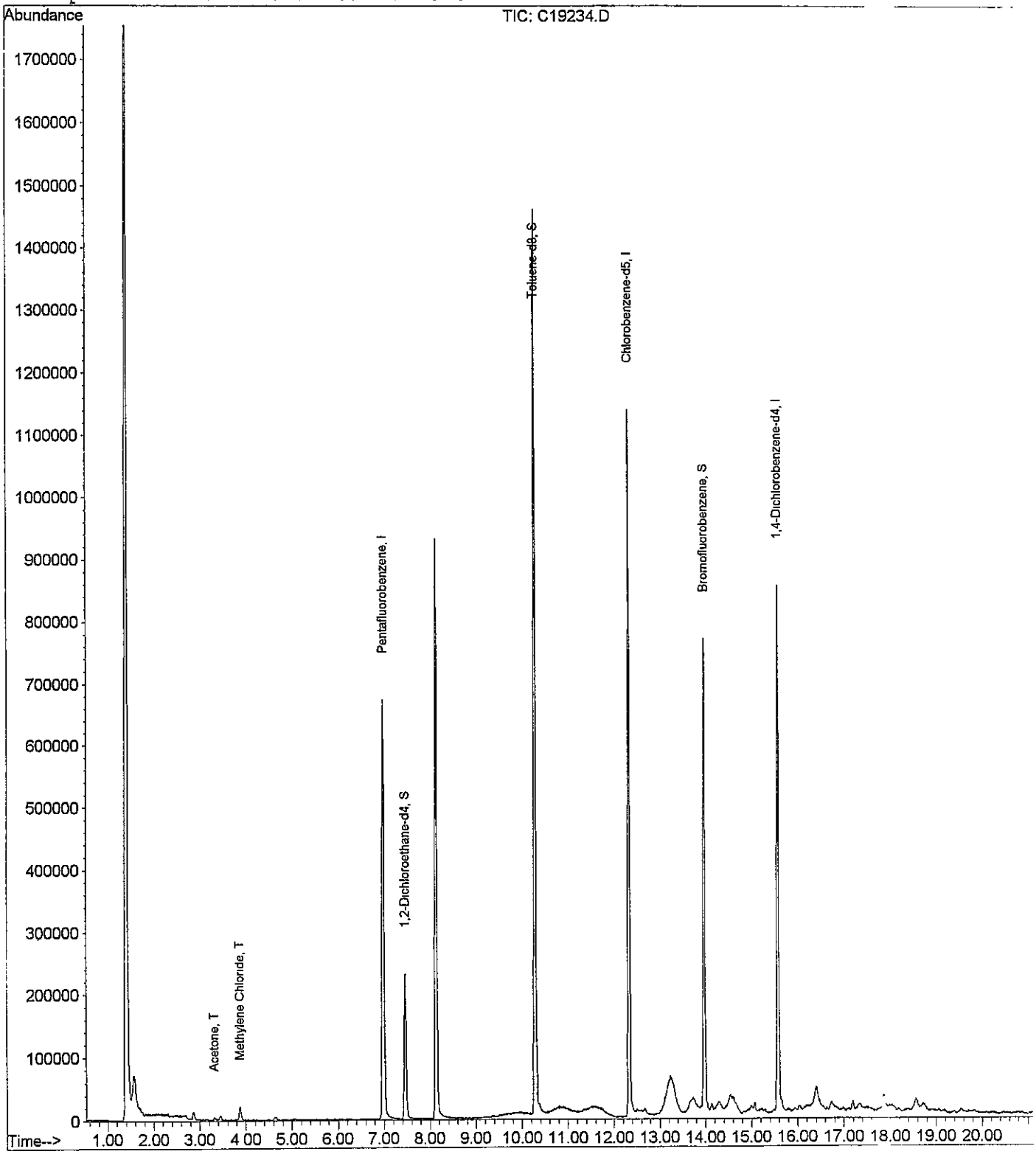
VRR
4/5.01

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\040301\C19234.D Vial: 6
Acq On : 04/03/01 19:37 Operator: JP/VRR
Sample : AC10503 25ml DF=1 Inst : VOA-C
Misc : 27420/C04030125 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 4 10:01 2001 Quant Results File: 04030125.RES

Method : C:\HPCHEM\1\DATA\040301\04030125.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Tue Apr 03 09:48:22 2001
Response via : Initial Calibration



LSC Area Percent Report

Data File : C:\HPCHEM\1\DATA\040301\C19234.D Vial: 6
Acq On : 04/03/01 19:37 Operator: JP/VRR
Sample : AC10503 25ml DF=1 Inst : VOA-C
Misc : 27420/C04030125 Multiplr: 1.00
MS Integration Params: LSCINT.P

Method : c:\hpchem\1\data\040301\04030125.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.02 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Signal : TIC

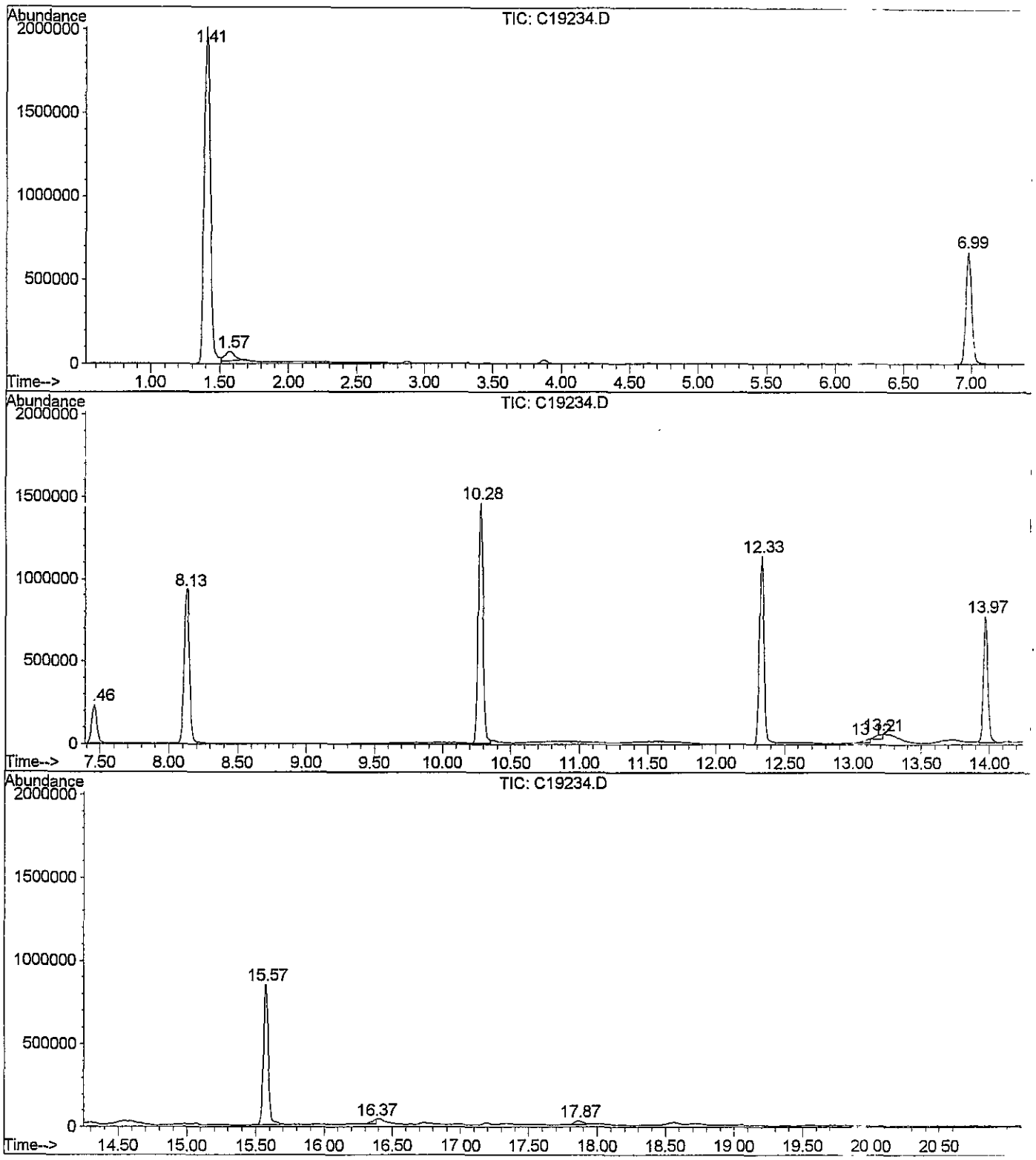
peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	peak area	peak % max.	% of total
1	1.411	131	148	164	rBV	2013148	6269441	100.00%	28.393%
2	1.573	165	175	190	rVB2	52720	273065	4.36%	1.237%
3	6.986	1060	1075	1091	rBV	673311	2030549	32.39%	9.196%
4	7.461	1143	1154	1164	rBV	231165	633359	10.10%	2.868%
5	8.128	1254	1265	1278	rBV	932080	2504355	39.95%	11.342%
6	10.282	1613	1623	1635	rBV	1452817	3551607	56.65%	16.084%
7	12.332	1954	1964	1981	rBV	1136130	2679159	42.73%	12.133%
8	13.120	2080	2095	2096	rBV7	23799	68359	1.09%	0.310%
9	13.210	2096	2110	2111	rBV9	28066	96929	1.55%	0.439%
10	13.974	2228	2237	2254	rVB2	757854	1801064	28.73%	8.157%
11	15.574	2494	2503	2521	rBV	844089	2011793	32.09%	9.111%
12	16.374	2619	2636	2637	rBV	27885	71264	1.14%	0.323%
13	17.865	2874	2884	2893	rBV8	22424	90345	1.44%	0.409%

Sum of corrected areas: 22081289

C19234.D 04030125.M Mon Apr 09 17:10:24 2001 INST:VOA-C

LSC Report - Integrated Chromatogram

File : C:\HPCHEM\1\DATA\040301\C19234.D
Operator : JP/VRR
Acquired : 3 Apr 2001 19:37 using AcqMethod 04030125
Instrument : VOA-C
Sample Name: AC10503 25ml DF=1
Misc Info : 27420/C04030125
Vial Number: 6
Quant File :04030125.RES (RTE Integrator)



C19234.D 04030125.M Mon Apr 09 17:10:25 2001 INST:VOA-C

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\040301\C19234.D Vial: 6
Acq On : 04/03/01 19:37 Operator: JP/VRR
Sample : AC10503 25ml DF=1 Inst : VOA-C
Misc : 27420/C04030125 Multiplr: 1.00
MS Integration Params: LSCINT.P

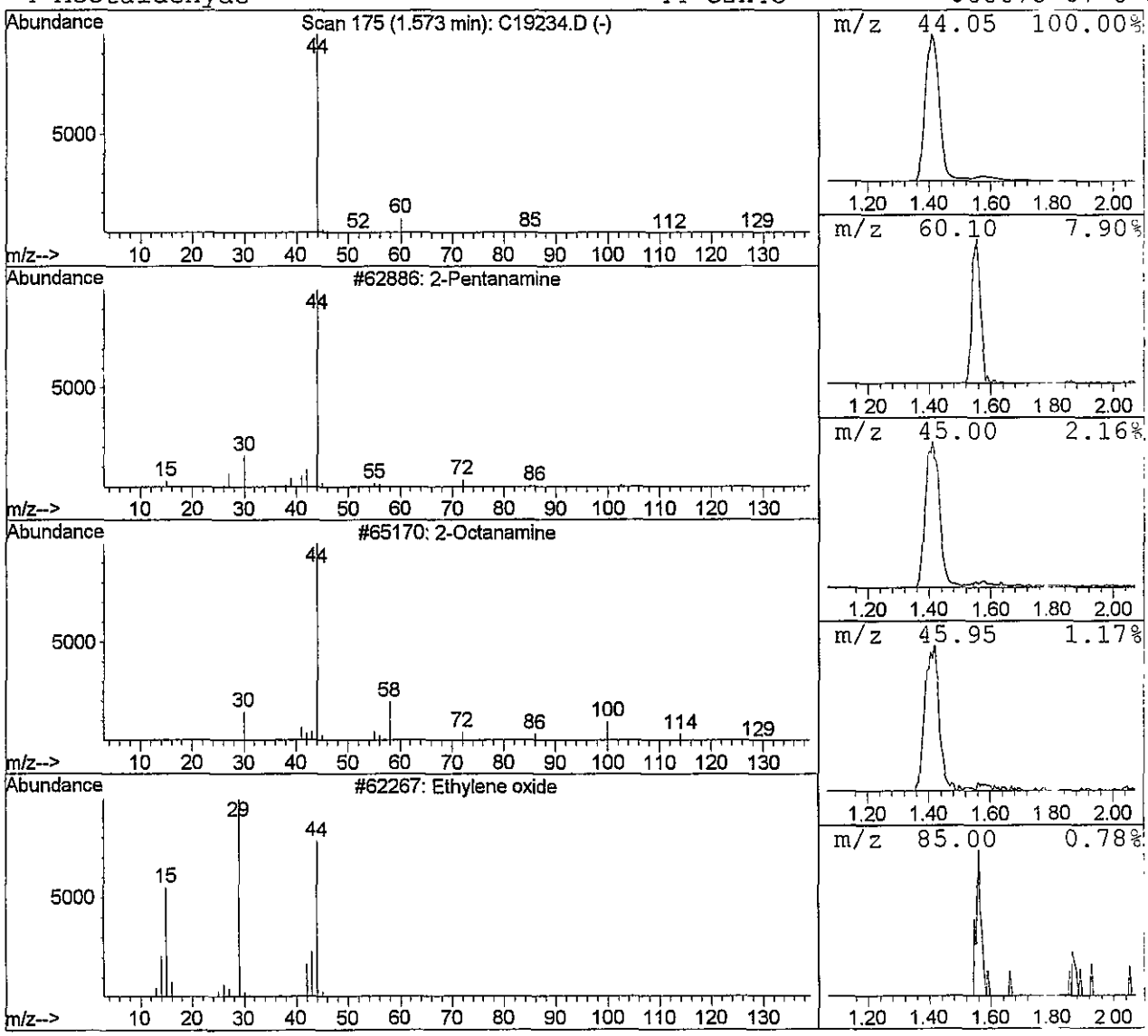
Quant Method : c:\hpchem\1\data\040301\04030125.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Library : C:\DATABASE\NBS75K.L

****

Peak Number 1 2-Pentanamine Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
1.57	2730650.00 ug\L	273065	1.4-Difluorobenzene	0.00

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Pentanamine	87	C5H13N	000625-30-9	4
2	2-Octanamine	129	C8H19N	000693-16-3	4
3	Ethylene oxide	44	C2H4O	000075-21-8	3
4	Acetaldehyde	44	C2H4O	000075-07-0	3



Tentatively Identified Compound (LSC) summary

Operator ID: JP/VRR Date Acquired: 3 Apr 2001 19:37
Data File: C:\HPCHEM\1\DATA\040301\C19234.D
Name: AC10503 25ml DF=1
Misc: 27420/C04030125
Method: c:\hpchem\1\data\040301\04030125.M (RTE Integrator)
Title: 8260 CALIBRATION FOR 25ML WATER
Library Searched: C:\DATABASE\NBS75K.L

TIC Top Hit name	RT	EstConc	Units	Area	IntStd	ISRT	ISArea	ISConc
2-Pentanamine	1.57	2730650.0	ug\L	273065	ISTD01	0.00	1	10.0

C19234.D 04030125.M Mon Apr 09 17:10:27 2001 INST:VOA-C

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\040401\C19240.D Vial: 5
Acq On : 04/04/01 17:41 Operator: JP/VRR
Sample : AC10504 25ml DF=1 Inst : VOA-C
Misc : 27420/C04030125 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 5 12:12 2001 Quant Results File: 04040125.RES

Quant Method : c:\hpchem\1\data\040401\04040125.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Tue Apr 03 09:48:22 2001
Response via : Initial Calibration
DataAcq Meth : 04040125

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	6.97	168	570646	10.00	ug\L	0.00
45) Chlorobenzene-d5	12.33	117	681147	10.00	ug\L	0.00
61) 1,4-Dichlorobenzene-d4	15.57	152	235909	10.00	ug\L	0.00
88) 1.4-Difluorobenzene	0.00	116	0m	10.00	ug\L	-8.12
System Monitoring Compounds						
32) 1,2-Dichloroethane-d4	7.45	65	191192	9.72	ug\L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 97.20%			
46) Toluene-d8	10.27	98	1096965	10.85	ug\L	0.00
Spiked Amount 10.000	Range 87 - 104		Recovery = 108.50%#			
66) Bromofluorobenzene	13.97	95	282158	11.06	ug\L	0.00
Spiked Amount 10.000	Range 84 - 110		Recovery = 110.60%#			
Target Compounds						Qvalue
11) Acetone	3.31	58	4051	4.75	ug\L	76
27) Chloroform	6.65	83	47545	1.05	ug\L	97

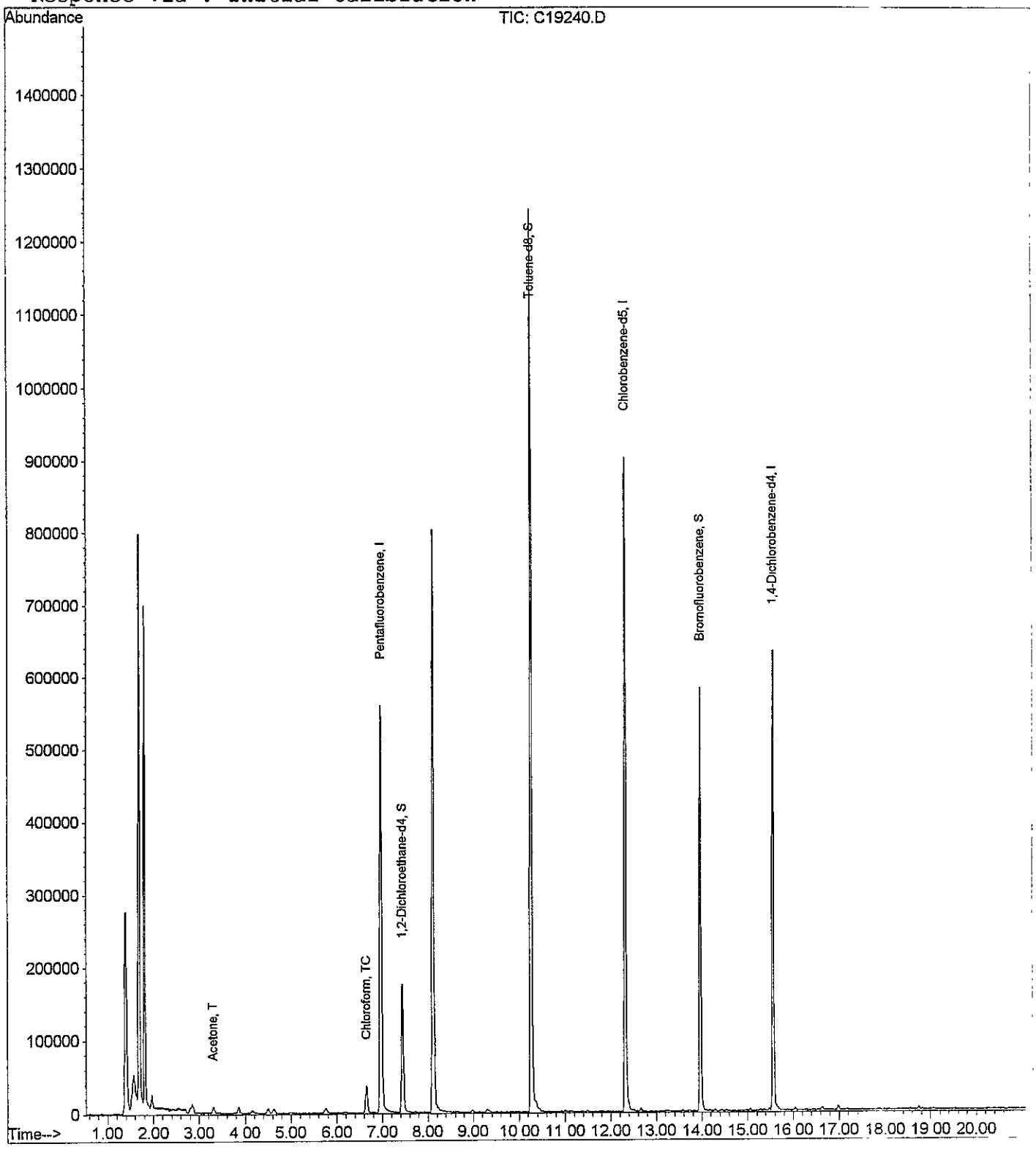
VRR
4·5·01

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\040401\C19240.D Vial: 5
Acq On : 04/04/01 17:41 Operator: JP/VRR
Sample : AC10504 25ml DF=1 Inst : VOA-C
Misc : 27420/C04030125 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 5 12:12 2001 Quant Results File: 04040125.RES

Method : C:\HPCHEM\1\DATA\040401\04040125.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Tue Apr 03 09:48:22 2001
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\040401\C19244.D Vial: 1
Acq On : 04/04/01 19:49 Operator: JP/VRR
Sample : AC10504 25ml DF=1 Inst : VOA-C
Misc : 27420/C04030125 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 5 12:17 2001 Quant Results File: 04040125.RES

Quant Method : c:\hpchem\1\data\040401\04040125.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Tue Apr 03 09:48:22 2001
Response via : Initial Calibration
DataAcq Meth : 04040125

File copy

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	6.97	168	603153	10.00	ug\L	0.00
45) Chlorobenzene-d5	12.32	117	744988	10.00	ug\L	0.00
61) 1,4-Dichlorobenzene-d4	15.57	152	273359	10.00	ug\L	0.00
88) 1.4-Difluorobenzene	0.00	116	0m	10.00	ug\L	-8.12
System Monitoring Compounds						
32) 1,2-Dichloroethane-d4	7.44	65	212736	10.24	ug\L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 102.40%			
46) Toluene-d8	10.27	98	1202822	10.87	ug\L	0.00
Spiked Amount 10.000	Range 87 - 104		Recovery = 108.70%#			
66) Bromofluorobenzene	13.97	95	322464	10.91	ug\L	0.00
Spiked Amount 10.000	Range 84 - 110		Recovery = 109.10%			
Target Compounds						Qvalue
11) Acetone	3.31	58	5184	6.08	ug\L	88
27) Chloroform	6.65	83	51588	1.07	ug\L	100
86) Naphthalene	19.06	128	5484	0.54	ug\L	100

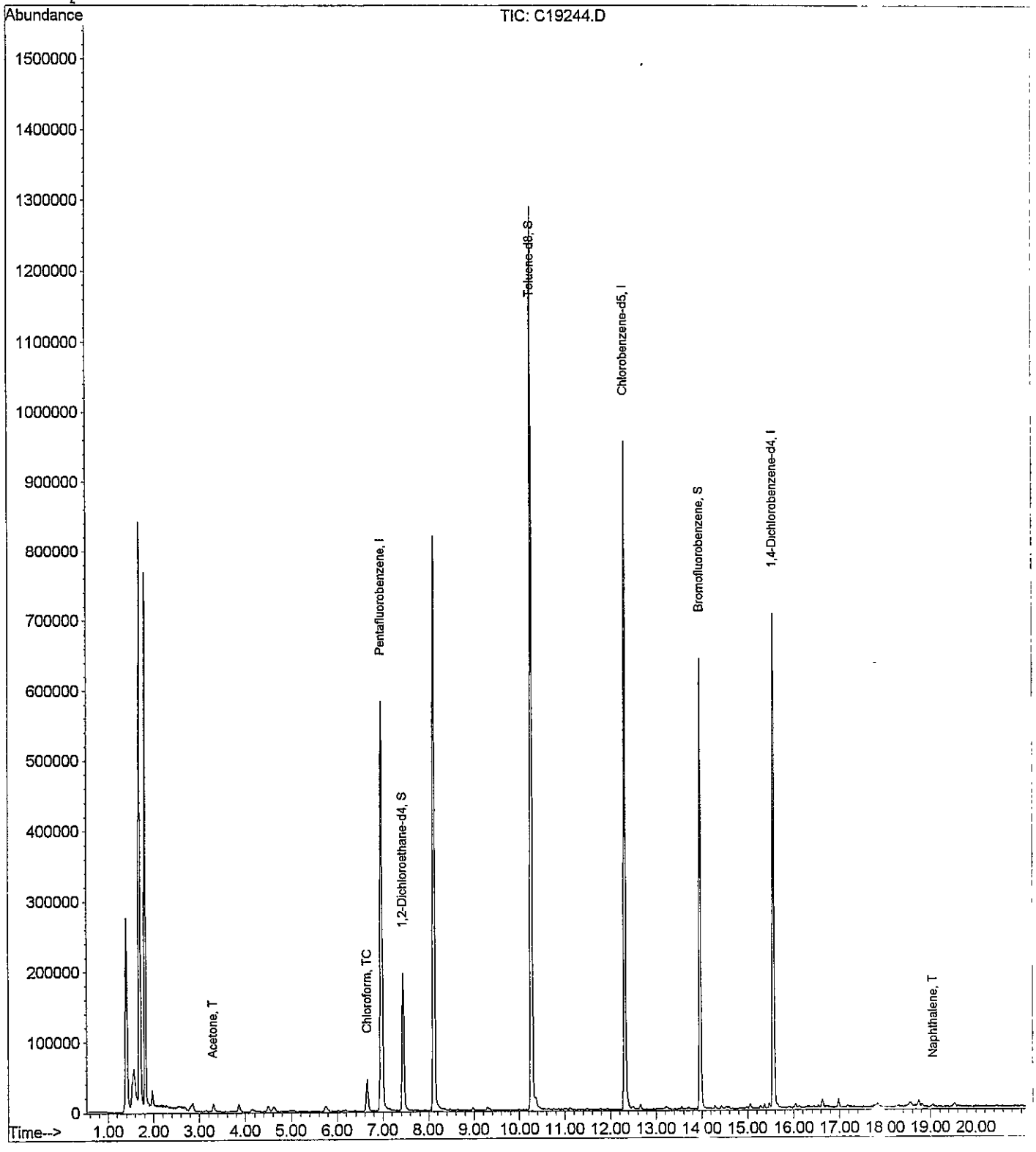
VRR 4-5-01

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\040401\C19244.D Vial: 1
Acq On : 04/04/01 19:49 Operator: JP/VRR
Sample : AC10504 25ml DF=1 Inst : VOA-C
Misc : 27420/C04030125 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 5 12:17 2001 Quant Results File: 04040125.RES

Method : C:\HPCHEM\1\DATA\040401\04040125.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Tue Apr 03 09:48:22 2001
Response via : Initial Calibration



LSC Area Percent Report

Data File : C:\HPCHEM\1\DATA\040401\C19240.D Vial: 5
Acq On : 04/04/01 17:41 Operator: JP/VRR
Sample : AC10504 25ml DF=1 Inst : VOA-C
Misc : 27420/C04030125 Multiplr: 1.00
MS Integration Params: LSCINT.P

Method : c:\hpchem\1\data\040401\04040125.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.02 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Signal : TIC

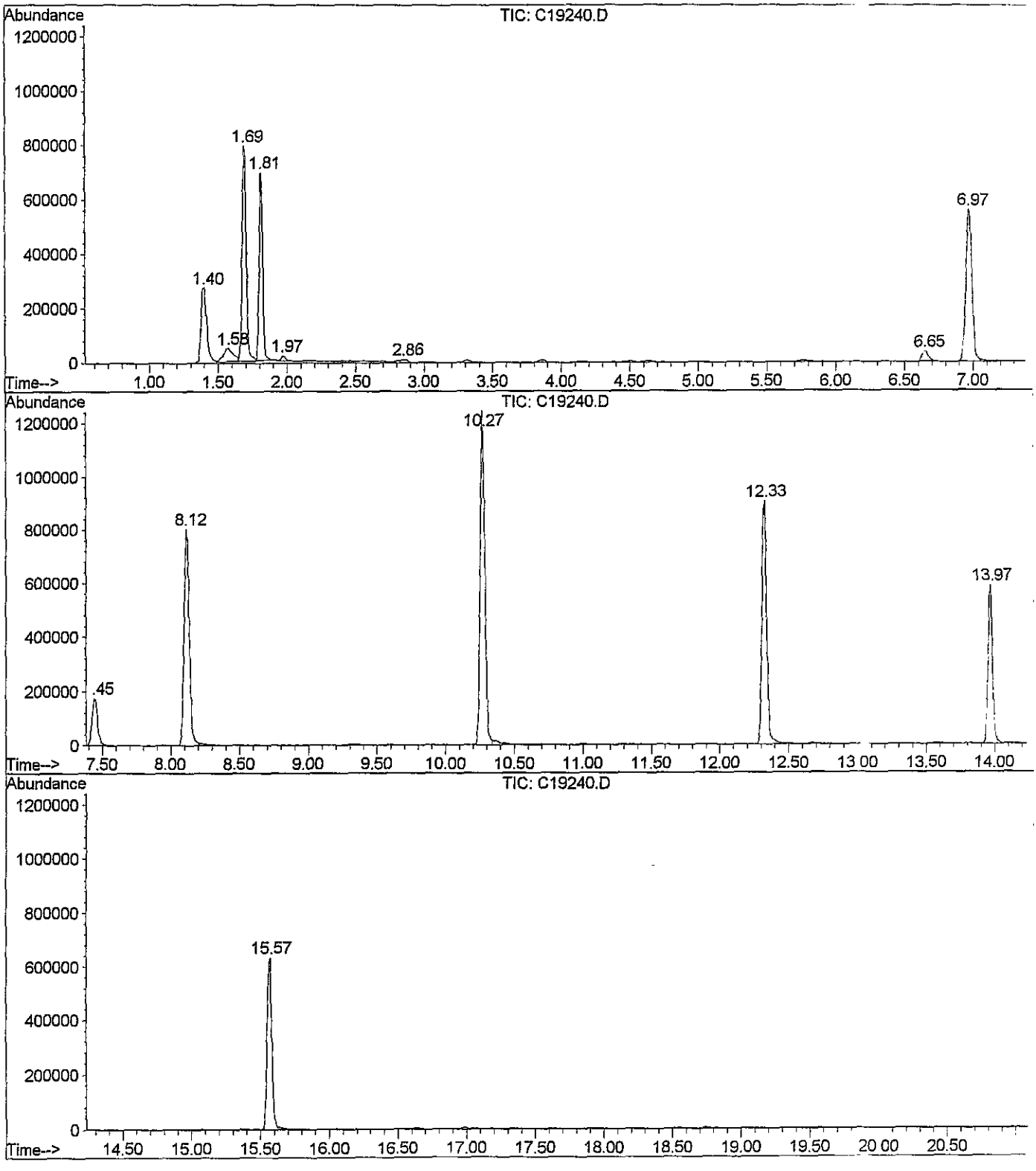
peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	peak area	peak % max.	% of total
1	1.401	130	146	160	rBV	276346	823231	28.40%	5.072%
2	1.582	160	176	186	rVV	48275	246811	8.51%	1.521%
3	1.690	187	194	208	rVV	790452	1622935	55.99%	9.999%
4	1.810	208	214	230	rVB	689843	1180756	40.73%	7.275%
5	1.972	235	241	248	rVV2	18178	39712	1.37%	0.245%
6	2.857	382	388	396	rVB3	11544	34787	1.20%	0.214%
7	6.652	1008	1019	1031	rBV3	37080	117820	4.06%	0.726%
8	6.970	1059	1072	1085	rBV	560845	1716858	59.23%	10.578%
9	7.445	1141	1151	1168	rBV2	175233	499263	17.22%	3.076%
10	8.119	1251	1263	1277	rBV	803171	2109296	72.76%	12.996%
11	10.272	1611	1621	1632	rBV	1243609	2898833	100.00%	17.860%
12	12.329	1953	1963	1985	rBV	903067	2126169	73.35%	13.100%
13	13.971	2226	2236	2249	rBV2	584200	1324224	45.68%	8.159%
14	15.571	2491	2502	2517	rBV	633852	1490139	51.40%	9.181%

Sum of corrected areas: 16230834

C19240.D 04040125.M Mon Apr 09 17:16:10 2001 INST:VOA-C

LSC Report - Integrated Chromatogram

File : C:\HPCHEM\1\DATA\040401\C19240.D
Operator : JP/VRR
Acquired : 4 Apr 2001 17:41 using AcqMethod 04040125
Instrument : VOA-C
Sample Name: AC10504 25ml DF=1
Misc Info : 27420/C04030125
Vial Number: 5
Quant File :04040125.RES (RTE Integrator)



C19240.D 04040125.M Mon Apr 09 17:16:11 2001 INST:VOA-C

Data File : C:\HPCHEM\1\DATA\040401\C19240.D Vial: 5
Acq On : 04/04/01 17:41 Operator: JP/VRR
Sample : AC10504 25ml DF=1 Inst : VOA-C
Misc : 27420/C04030125 Multiplr: 1.00
MS Integration Params: LSCINT.P

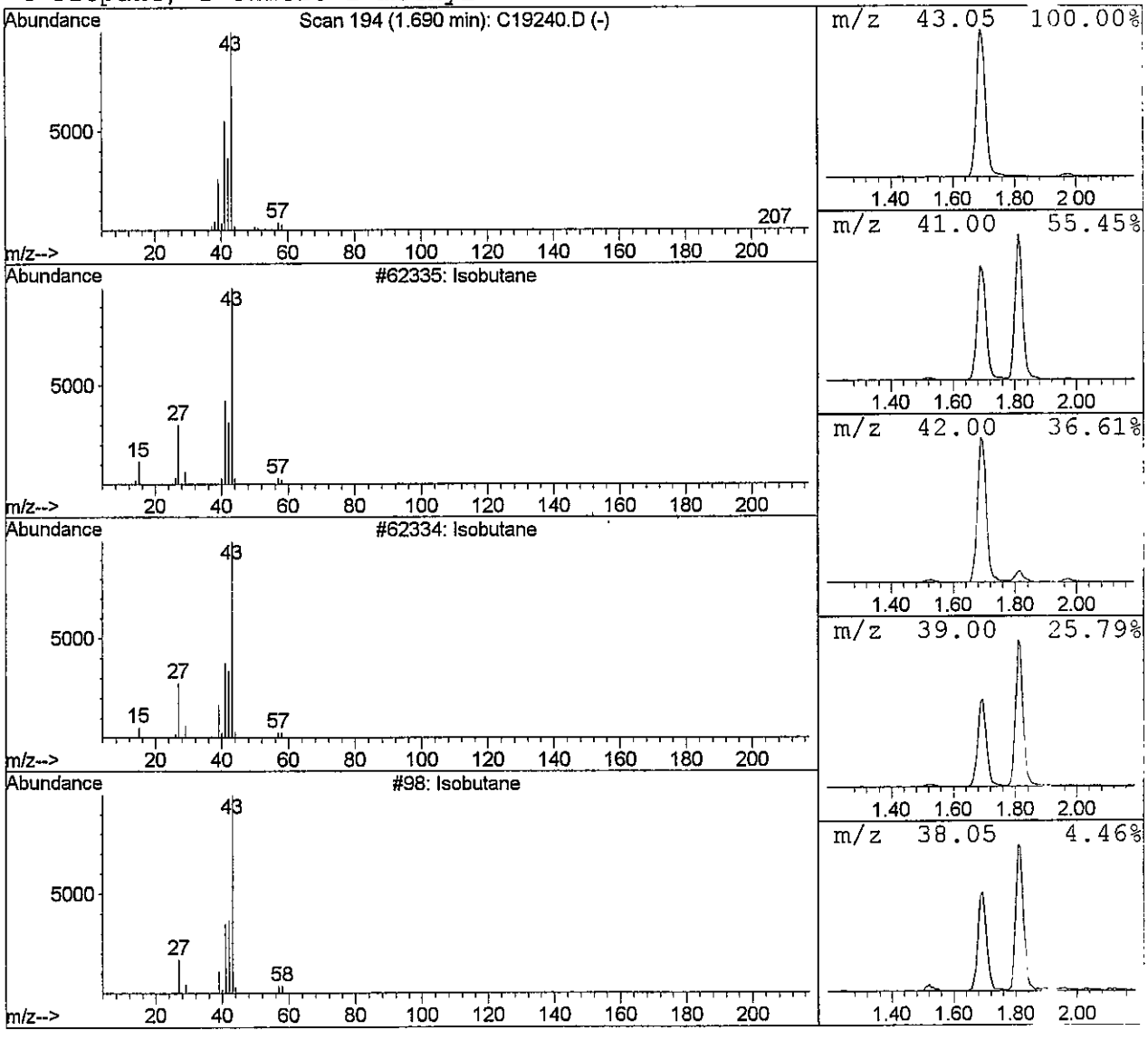
Quant Method : c:\hpchem\1\data\040401\04040125.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Library : C:\DATABASE\NBS75K.L

****

Peak Number 1 Isobutane Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
1.69	16229400.00 ug\L	16229401	4-Difluorobenzene	0.00

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Isobutane	58	C4H10	000075-28-5	64
2	Isobutane	58	C4H10	000075-28-5	42
3	Isobutane	58	C4H10	000075-28-5	9
4	Propane, 1-chloro-2-methyl-	92	C4H9Cl	000513-36-0	9



Data File : C:\HPCHEM\1\DATA\040401\C19240.D Vial: 5
Acq On : 04/04/01 17:41 Operator: JP/VRR
Sample : AC10504 25ml DF=1 Inst : VOA-C
Misc : 27420/C04030125 Multiplr: 1.00
MS Integration Params: LSCINT.P

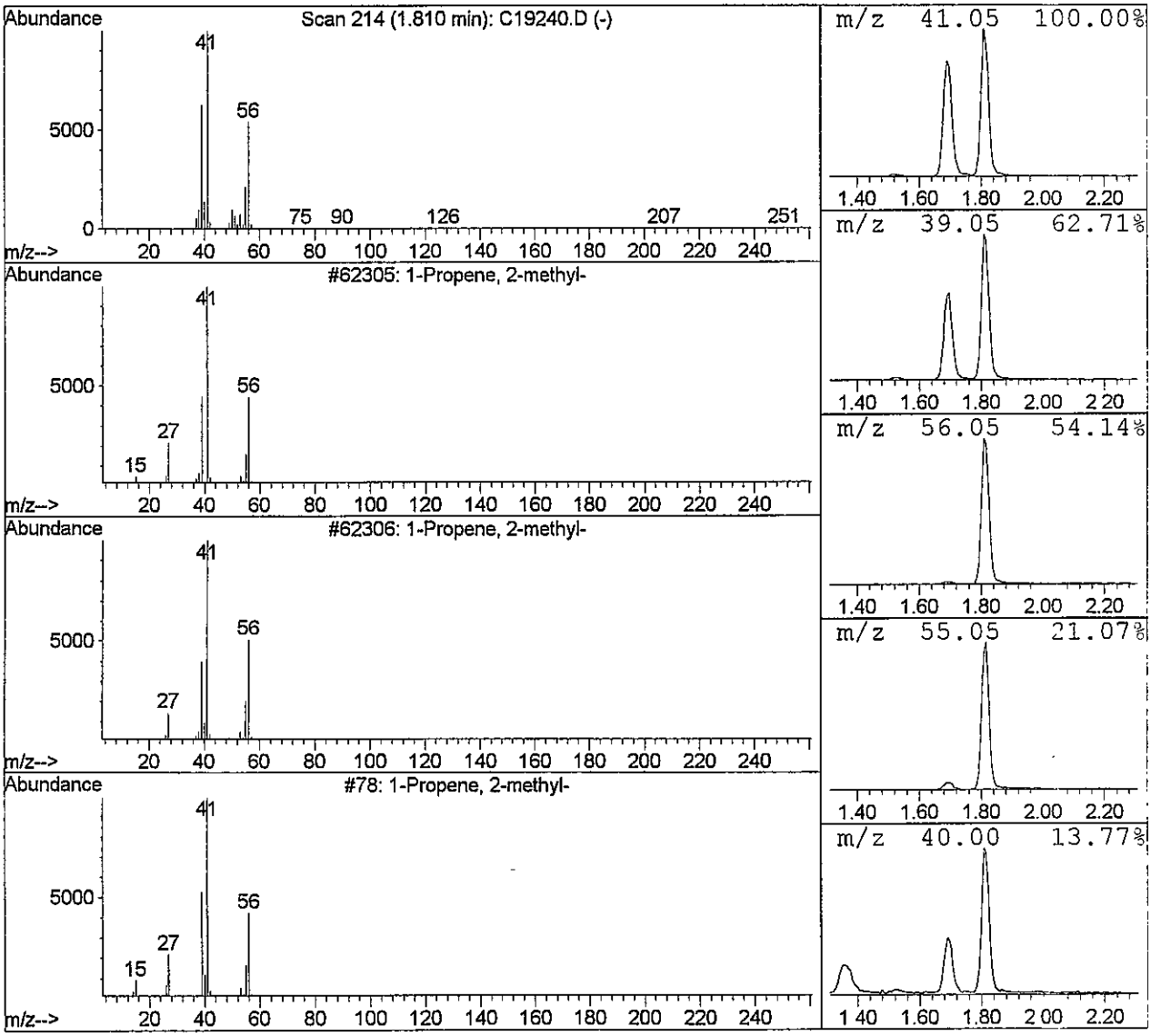
Quant Method : c:\hpchem\1\data\040401\04040125.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Library : C:\DATABASE\NBS75K.L

****

Peak Number 2 1-Propene, 2-methyl- Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
1.81	11807600.00 ug\L	11807601	4-Difluorobenzene	0.00

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Propene, 2-methyl-	56	C4H8	000115-11-7	87
2	1-Propene, 2-methyl-	56	C4H8	000115-11-7	86
3	1-Propene, 2-methyl-	56	C4H8	000115-11-7	64
4	1-Butene	56	C4H8	000106-98-9	59



Data File : C:\HPCHEM\1\DATA\040401\C19240.D Vial: 5
Acq On : 04/04/01 17:41 Operator: JP/VRR
Sample : AC10504 25ml DF=1 Inst : VOA-C
Misc : 27420/C04030125 Multiplr: 1.00
MS Integration Params: LSCINT.P

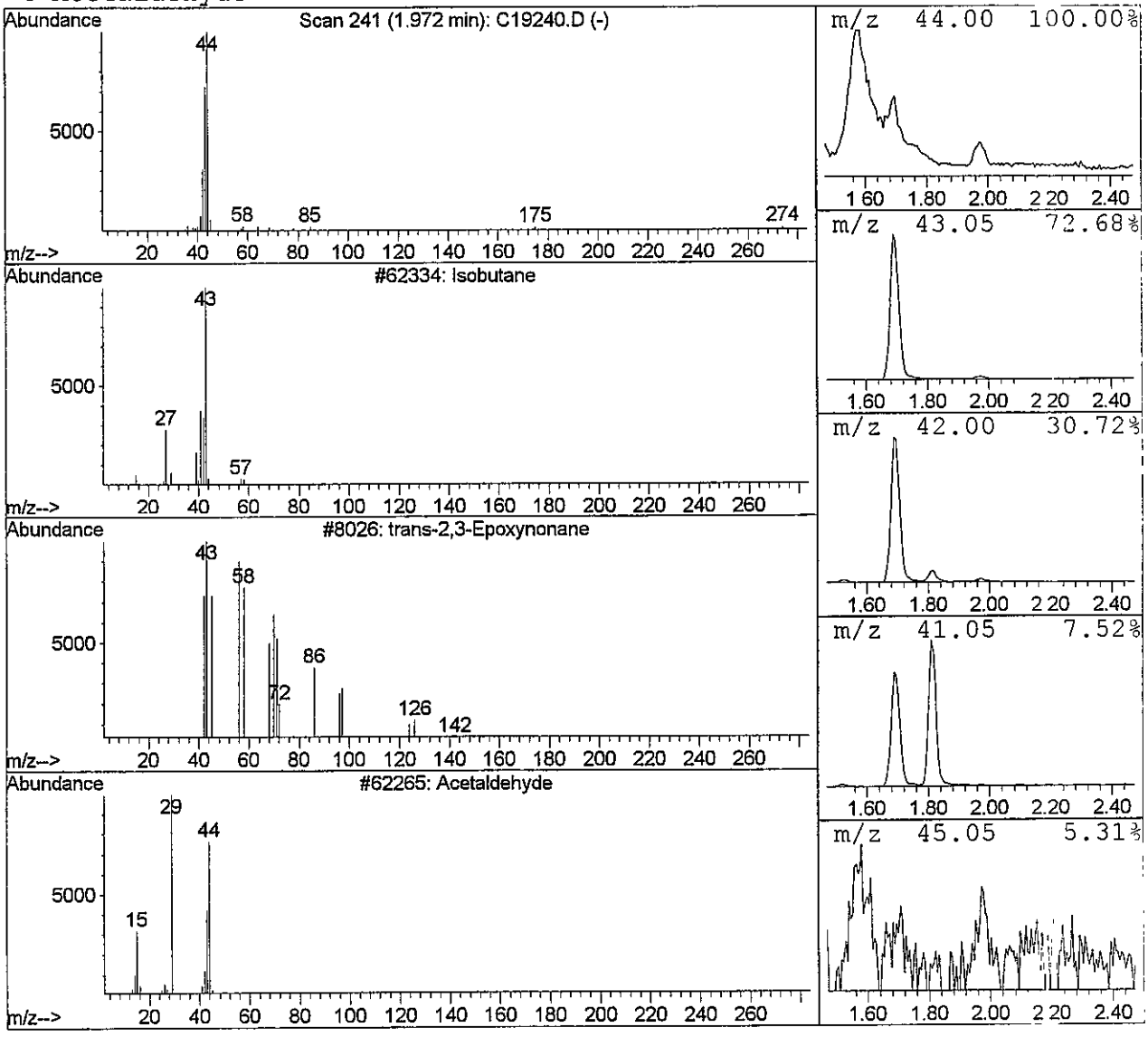
Quant Method : c:\hpchem\1\data\040401\04040125.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Library : C:\DATABASE\NBS75K.L

****

Peak Number 3 Isobutane Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
1.97	397120.00 ug\L	39712	1.4-Difluorobenzene	0.00

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Isobutane	58	C4H10	000075-28-5	9
2	trans-2,3-Epoxynonane	142	C9H18O	056820-01-0	9
3	Acetaldehyde	44	C2H4O	000075-07-0	7
4	Acetaldehyde	44	C2H4O	000075-07-0	7



Data File : C:\HPCHEM\1\DATA\040401\C19240.D Vial: 5
Acq On : 04/04/01 17:41 Operator: JP/VRR
Sample : AC10504 25ml DF=1 Inst : VOA-C
Misc : 27420/C04030125 Multiplr: 1.00
MS Integration Params: LSCINT.P

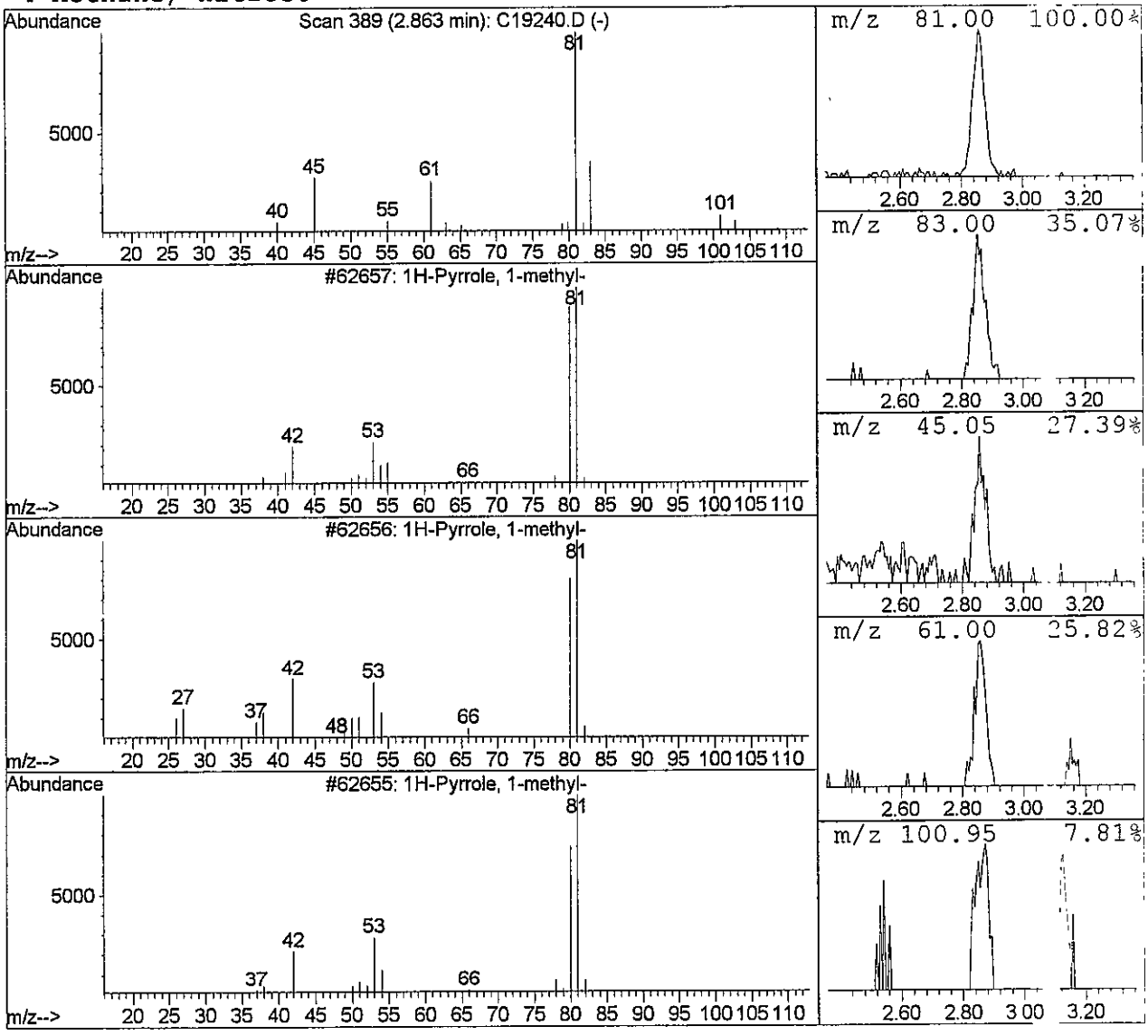
Quant Method : c:\hpchem\1\data\040401\04040125.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Library : C:\DATABASE\NBS75K.L

****

Peak Number 4 1H-Pyrrole, 1-methyl- Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.86	347870.00 ug\L	34787	1.4-Difluorobenzene	0.00

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1H-Pyrrole, 1-methyl-	81	C5H7N	000096-54-8	3
2	1H-Pyrrole, 1-methyl-	81	C5H7N	000096-54-8	3
3	1H-Pyrrole, 1-methyl-	81	C5H7N	000096-54-8	3
4	Methane, nitroso-	45	CH3NO	000865-40-7	2



Tentatively Identified Compound (LSC) summary

Operator ID: JP/VRR Date Acquired: 4 Apr 2001 17:41
Data File: C:\HPCHEM\1\DATA\040401\C19240.D
Name: AC10504 25ml DF=1
Misc: 27420/C04030125
Method: c:\hpchem\1\data\040401\04040125.M (RTE Integrator)
Title: 8260 CALIBRATION FOR 25ML WATER
Library Searched: C:\DATABASE\NBS75K.L

TIC Top Hit name	RT	EstConc	Units	Area	IntStd	ISRT	ISArea	ISConc
Isobutane	1.69	16229400.0	ug\L	1622940	ISTD01	0.00	1	10.0
1-Propene, 2-methyl-	1.81	11807600.0	ug\L	1180760	ISTD01	0.00	1	10.0
Isobutane	1.97	397120.0	ug\L	39712	ISTD01	0.00	1	10.0
1H-Pyrrole, 1-methyl	2.86	347870.0	ug\L	34787	ISTD01	0.00	1	10.0

C19240.D 04040125.M Mon Apr 09 17:16:18 2001 INST:VOA-C

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\040401\C19245.D Vial: 2
Acq On : 04/04/01 20:15 Operator: JP/VRR
Sample : AC10505 25ml DF=1 Inst : VOA-C
Misc : 27420/C04030125 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 5 12:18 2001 Quant Results File: 04040125.RES

Quant Method : c:\hpchem\1\data\040401\04040125.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Tue Apr 03 09:48:22 2001
Response via : Initial Calibration
DataAcq Meth : 04040125

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	6.97	168	639329	10.00	ug\L	0.00
45) Chlorobenzene-d5	12.32	117	809004	10.00	ug\L	0.00
61) 1,4-Dichlorobenzene-d4	15.56	152	285907	10.00	ug\L	0.00
88) 1.4-Difluorobenzene	0.00	116	0m	10.00	ug\L	-8.12
System Monitoring Compounds						
32) 1,2-Dichloroethane-d4	7.45	65	232625	10.56	ug\L	0.01
Spiked Amount 10.000	Range 80 - 120		Recovery = 105.60%			
46) Toluene-d8	10.27	98	1289029	10.73	ug\L	0.00
Spiked Amount 10.000	Range 87 - 104		Recovery = 107.30%#			
66) Bromofluorobenzene	13.96	95	345765	11.18	ug\L	0.00
Spiked Amount 10.000	Range 84 - 110		Recovery = 111.80%#			
Target Compounds						Qvalue
16) Methylene Chloride	3.87	86	9325	0.60	ug\L	98

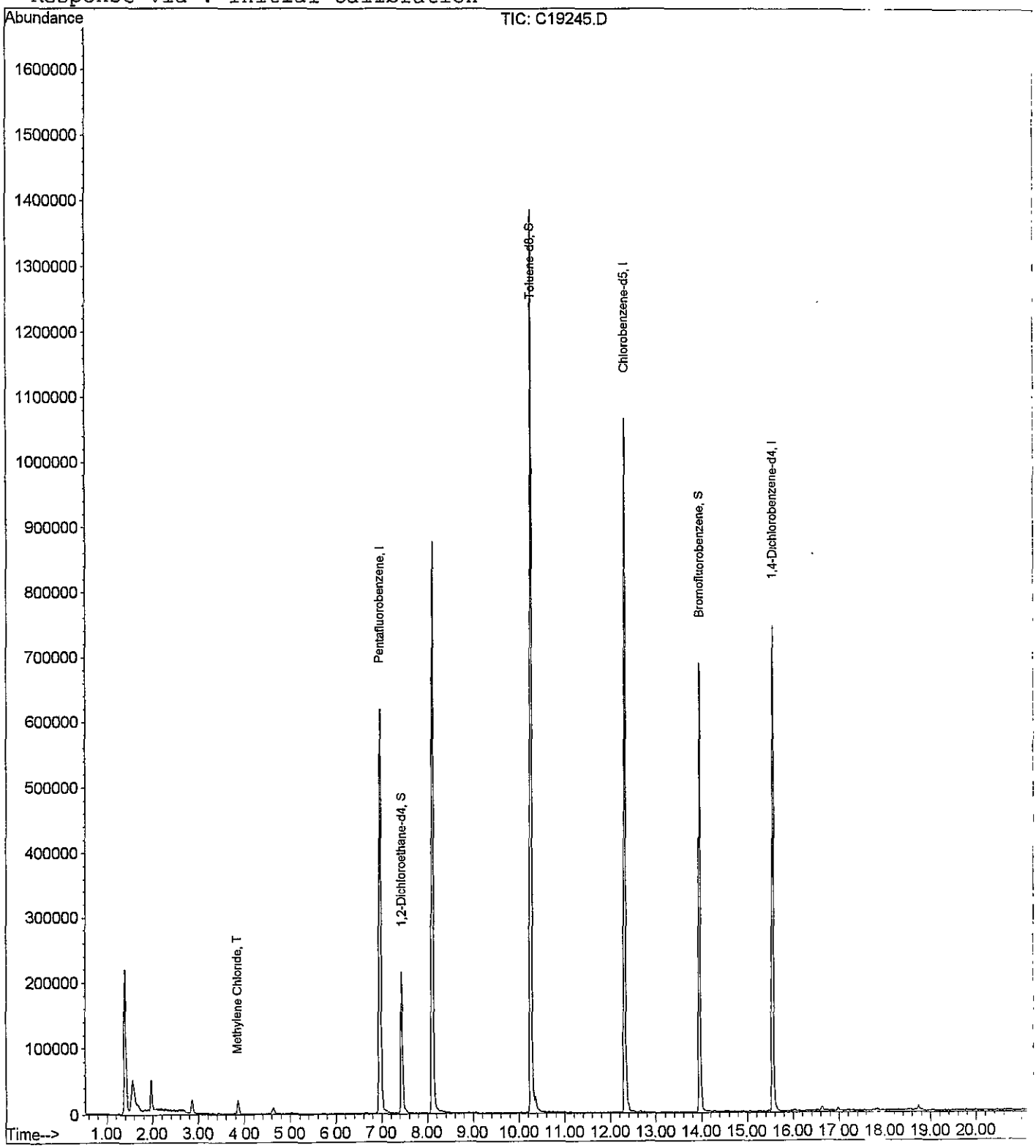
VRR
4.5.01

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\040401\C19245.D Vial: 2
Acq On : 04/04/01 20:15 Operator: JP/VRR
Sample : AC10505 25ml DF=1 Inst : VOA-C
Misc : 27420/C04030125 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 5 12:18 2001 Quant Results File: 04040125.RES

Method : C:\HPCHEM\1\DATA\040401\04040125.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Tue Apr 03 09:48:22 2001
Response via : Initial Calibration



LSC Area Percent Report

Data File : C:\HPCHEM\1\DATA\040401\C19245.D Vial: 2
Acq On : 04/04/01 20:15 Operator: JP/VRR
Sample : AC10505 25ml DF=1 Inst : VOA-C
Misc : 27420/C04030125 Multiplr: 1.00
MS Integration Params: LSCINT.P

Method : c:\hpchem\1\data\040401\04040125.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.02 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Signal : TIC

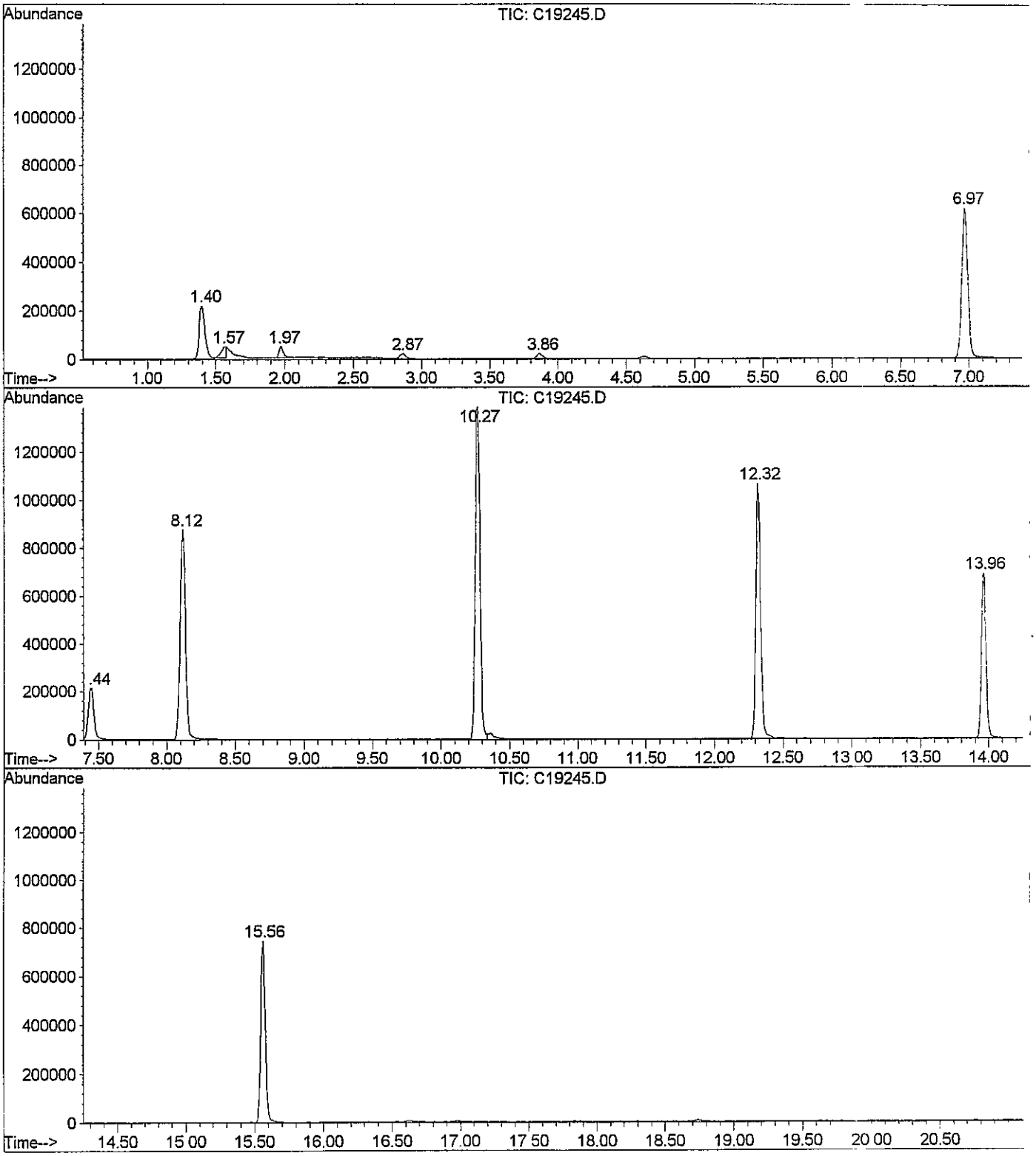
peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	peak area	peak % max.	% of total
1	1.400	133	146	161	rBV	219324	658555	19.64%	4.391%
2	1.568	162	174	175	rBV	44007	103030	3.07%	0.687%
3	1.971	235	241	250	rBV	46166	100434	3.00%	0.670%
4	2.867	380	390	397	rVB2	20135	53467	1.59%	0.357%
5	3.859	548	555	566	rVB3	20417	59692	1.78%	0.398%
6	6.969	1056	1072	1091	rBV	618780	1879266	56.04%	12.531%
7	7.444	1139	1151	1169	rBV2	214214	619153	18.46%	4.129%
8	8.117	1251	1263	1279	rBV	877453	2353075	70.17%	15.691%
9	10.271	1608	1621	1632	rBV	1385231	3353233	100.00%	22.360%
10	12.321	1952	1962	1984	rBV	1065928	2466181	73.55%	16.445%
11	13.963	2224	2235	2253	rBV	687992	1598553	47.67%	10.659%
12	15.563	2492	2501	2525	rBV2	745450	1752129	52.25%	11.683%

Sum of corrected areas: 14996768

C19245.D 04040125.M Mon Apr 09 17:19:13 2001 INST:VOA-C

LSC Report - Integrated Chromatogram

File : C:\HPCHEM\1\DATA\040401\C19245.D
Operator : JP/VRR
Acquired : 4 Apr 2001 20:15 using AcqMethod 04040125
Instrument : VOA-C
Sample Name: AC10505 25ml DF=1
Misc Info : 27420/C04030125
Vial Number: 2
Quant File :04040125.RES (RTE Integrator)



C19245.D 04040125.M Mon Apr 09 17:19:14 2001 INST:VOA-C

Data File : C:\HPCHEM\1\DATA\040401\C19245.D Vial: 2
Acq On : 04/04/01 20:15 Operator: JP/VRR
Sample : AC10505 25ml DF=1 Inst : VOA-C
Misc : 27420/C04030125 Multiplr: 1.00
MS Integration Params: LSCINT.P

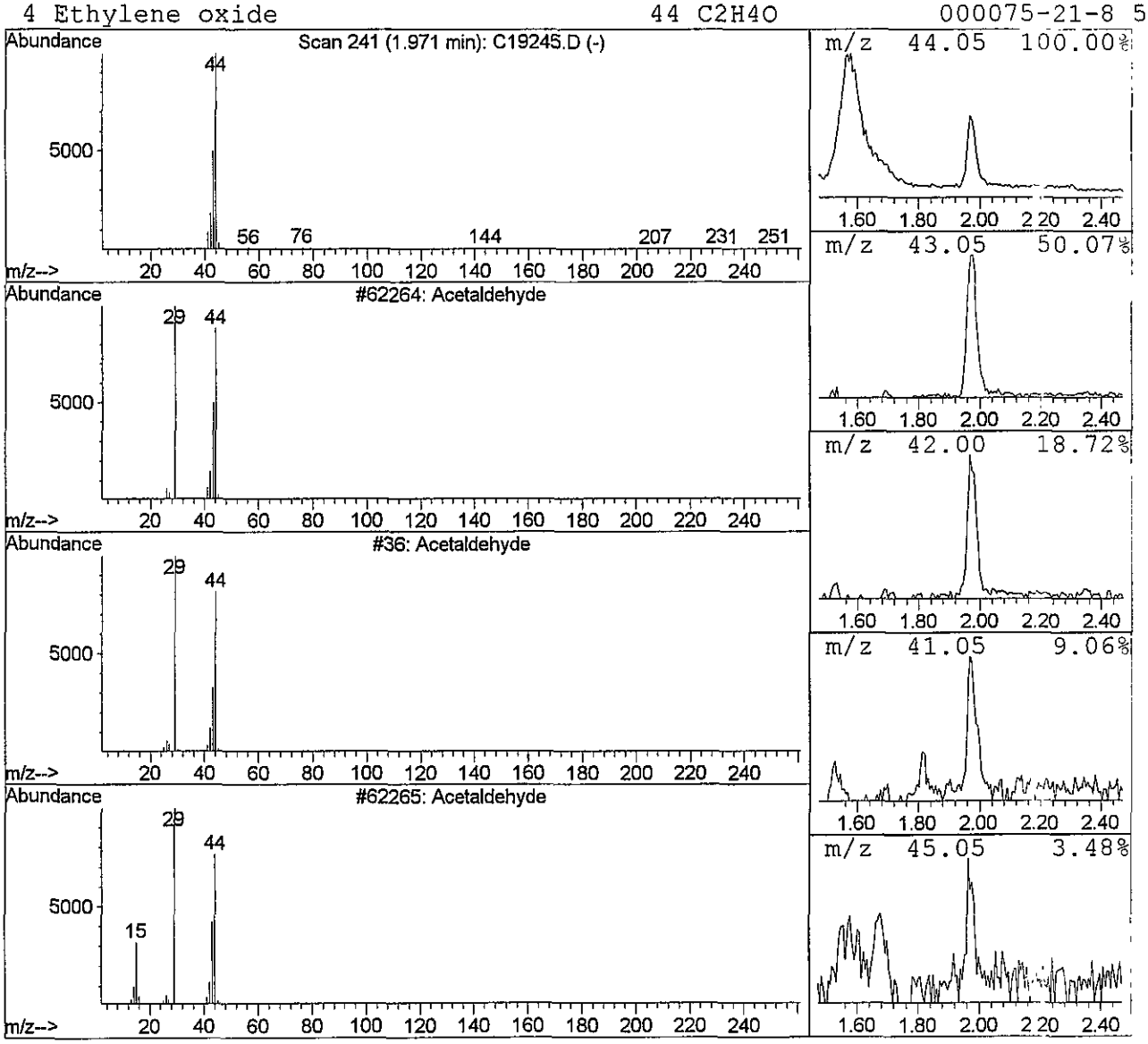
Quant Method : c:\hpchem\1\data\040401\04040125.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Library : C:\DATABASE\NBS75K.L

****

Peak Number 1 Acetaldehyde Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
1.97	1004340.00 ug\L	100434	1.4-Difluorobenzene	0.00

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Acetaldehyde	44	C2H4O	000075-07-0	56
2	Acetaldehyde	44	C2H4O	000075-07-0	56
3	Acetaldehyde	44	C2H4O	000075-07-0	56
4	Ethylene oxide	44	C2H4O	000075-21-8	5



Data File : C:\HPCHEM\1\DATA\040401\C19245.D Vial: 2
Acq On : 04/04/01 20:15 Operator: JP/VRR
Sample : AC10505 25ml DF=1 Inst : VOA-C
Misc : 27420/C04030125 Multiplr: 1.00
MS Integration Params: LSCINT.P

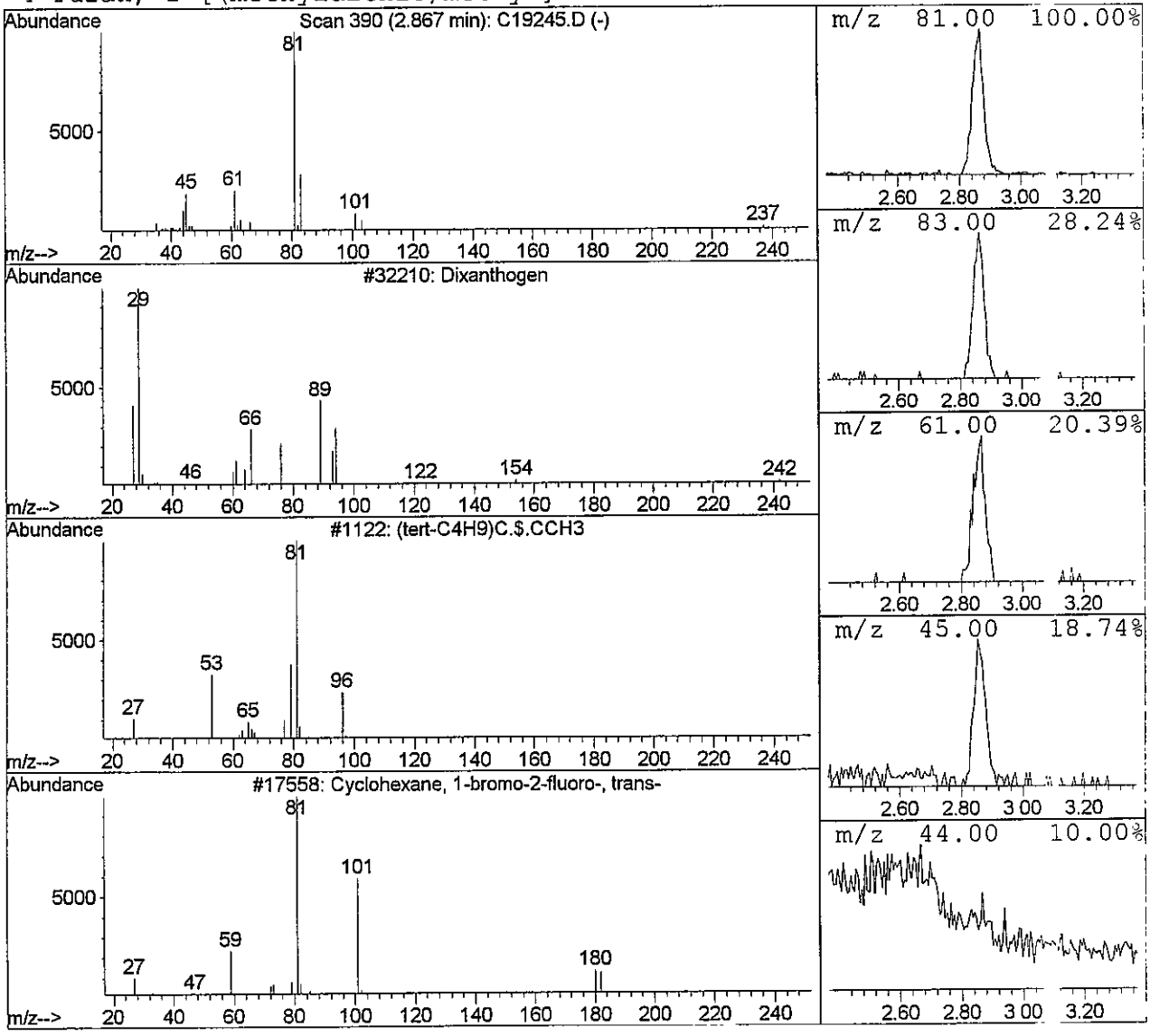
Quant Method : c:\hpchem\1\data\040401\04040125.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Library : C:\DATABASE\NBS75K.L

****

Peak Number 2 Dixanthogen Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.87	534670.00 ug\L	53467	1.4-Difluorobenzene	0.00

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dixanthogen	242	C6H10O2S4	000502-55-6	4
2	(tert-C4H9)C.$.CCH3	96	C7H12	000999-78-0	4
3	Cyclohexane, 1-bromo-2-fluoro-, tra	180	C6H10BrF	017170-96-6	2
4	Furan, 2-[(methyldithio)methyl]-	160	C6H8OS2	057500-00-2	2



Tentatively Identified Compound (LSC) summary

Operator ID: JP/VRR Date Acquired: 4 Apr 2001 20:15
Data File: C:\HPCHEM\1\DATA\040401\C19245.D
Name: AC10505 25ml DF=1
Misc: 27420/C04030125
Method: c:\hpchem\1\data\040401\04040125.M (RTE Integrator)
Title: 8260 CALIBRATION FOR 25ML WATER
Library Searched: C:\DATABASE\NBS75K.L

TIC Top Hit name	RT	EstConc	Units	Area	IntStd	ISRT	ISArea	ISConc
Acetaldehyde	1.97	1004340.0	ug\L	100434	ISTD01	0.00	1	10.0
Dixanthogen	2.87	534670.0	ug\L	53467	ISTD01	0.00	1	10.0

C19245.D 04040125.M Mon Apr 09 17:19:19 2001 INST:VOA-C

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\040401\C19241.D Vial: 6
Acq On : 04/04/01 18:07 Operator: JP/VRR
Sample : AC10505 25ml DF=1 Inst : VOA-C
Misc : 27420/C04030125 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 5 12:14 2001 Quant Results File: 04040125.RES

Quant Method : c:\hpchem\1\data\040401\04040125.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Tue Apr 03 09:48:22 2001
Response via : Initial Calibration
DataAcq Meth : 04040125

File copy

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	6.97	168	536816	10.00	ug\L	0.00
45) Chlorobenzene-d5	12.33	117	654152	10.00	ug\L	0.00
61) 1,4-Dichlorobenzene-d4	15.57	152	235385	10.00	ug\L	0.00
88) 1.4-Difluorobenzene	0.00	116	0m	10.00	ug\L	-8.12
System Monitoring Compounds						
32) 1,2-Dichloroethane-d4	7.45	65	200498	10.84	ug\L	0.01
Spiked Amount 10.000	Range 80 - 120		Recovery = 108.40%			
46) Toluene-d8	10.27	98	1038232	10.69	ug\L	0.00
Spiked Amount 10.000	Range 87 - 104		Recovery = 106.90%#			
66) Bromofluorobenzene	13.97	95	285106	11.20	ug\L	0.00
Spiked Amount 10.000	Range 84 - 110		Recovery = 112.00%#			
Target Compounds						Qvalue
16) Methylene Chloride	3.86	86	29524	2.24	ug\L	96 RT

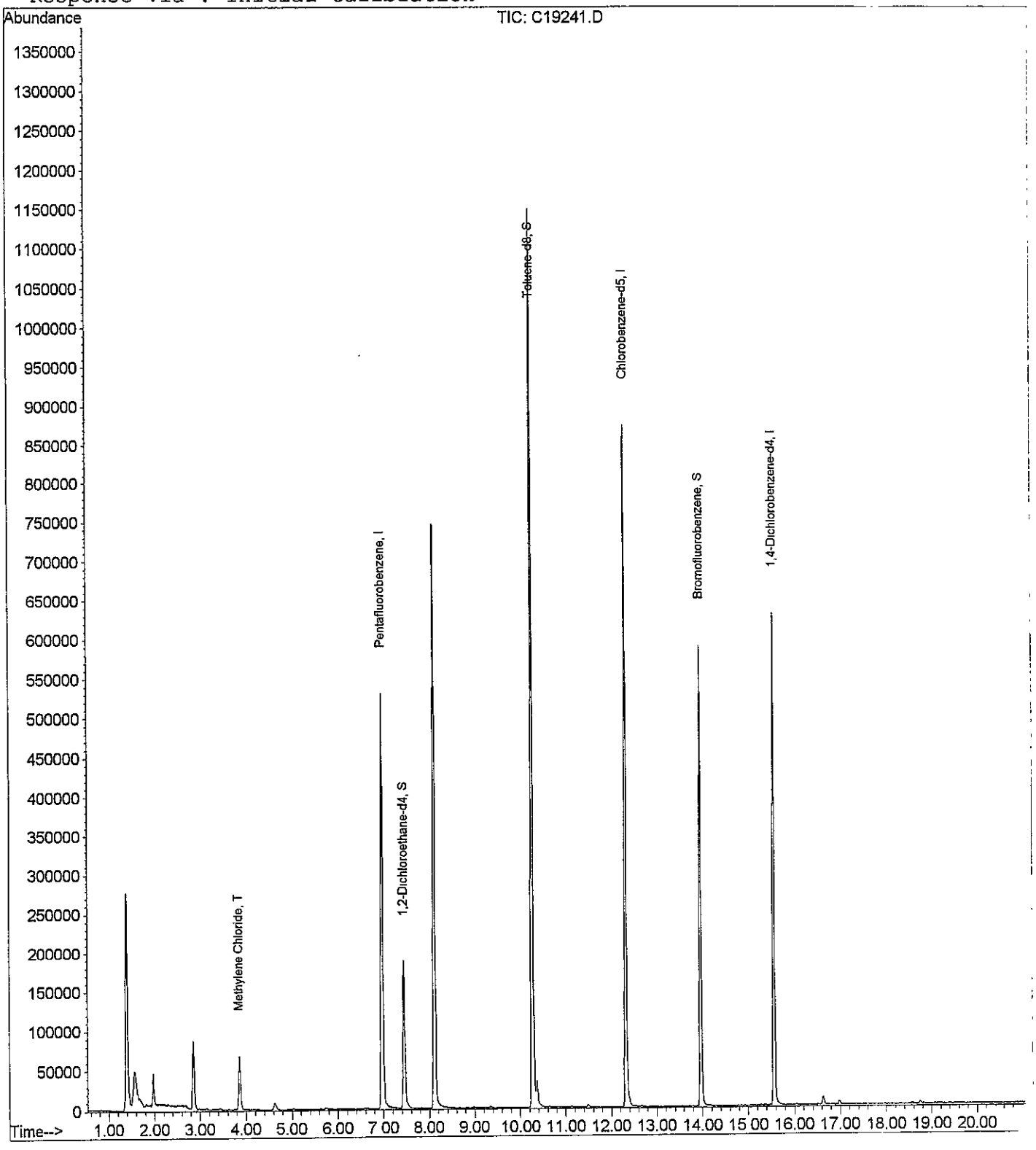
for confirm
VRR 4.5.01

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\040401\C19241.D Vial: 6
Acq On : 04/04/01 18:07 Operator: JP/VRR
Sample : AC10505 25ml DF=1 Inst : VOA-C
Misc : 27420/C04030125 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 5 12:14 2001 Quant Results File: 04040125.RES

Method : C:\HPCHEM\1\DATA\040401\04040125.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Tue Apr 03 09:48:22 2001
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\040301\C19213.D Vial: 2
Acq On : 04/03/01 09:36 Operator: JP/VRR
Sample : QVW0403011 25ml DF=1 Inst : VOA-C
Misc : QC/WATER BLANK Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 3 13:53 2001 Quant Results File: 04030125.RES

Quant Method : C:\HPCHEM\1\DATA\040301\04030125.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Tue Apr 03 09:48:22 2001
Response via : Initial Calibration
DataAcq Meth : 04030125

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	6.98	168	717969	10.00	ug\L	0.00
45) Chlorobenzene-d5	12.33	117	856037	10.00	ug\L	0.00
61) 1,4-Dichlorobenzene-d4	15.57	152	308345	10.00	ug\L	0.00
88) 1.4-Difluorobenzene	0.00	116	0m	10.00	ug\L	-8.12
System Monitoring Compounds						
32) 1,2-Dichloroethane-d4	7.45	65	220937	8.93	ug\L	0.02
Spiked Amount 10.000	Range 80 - 120		Recovery = 89.30%			
46) Toluene-d8	10.27	98	1339943	10.54	ug\L	0.00
Spiked Amount 10.000	Range 87 - 104		Recovery = 105.40%#			
66) Bromofluorobenzene	13.97	95	350834	10.52	ug\L	0.00
Spiked Amount 10.000	Range 84 - 110		Recovery = 105.20%			
Target Compounds						Qvalue
86) Naphthalene	19.05	128	9464	0.69	ug\L	100

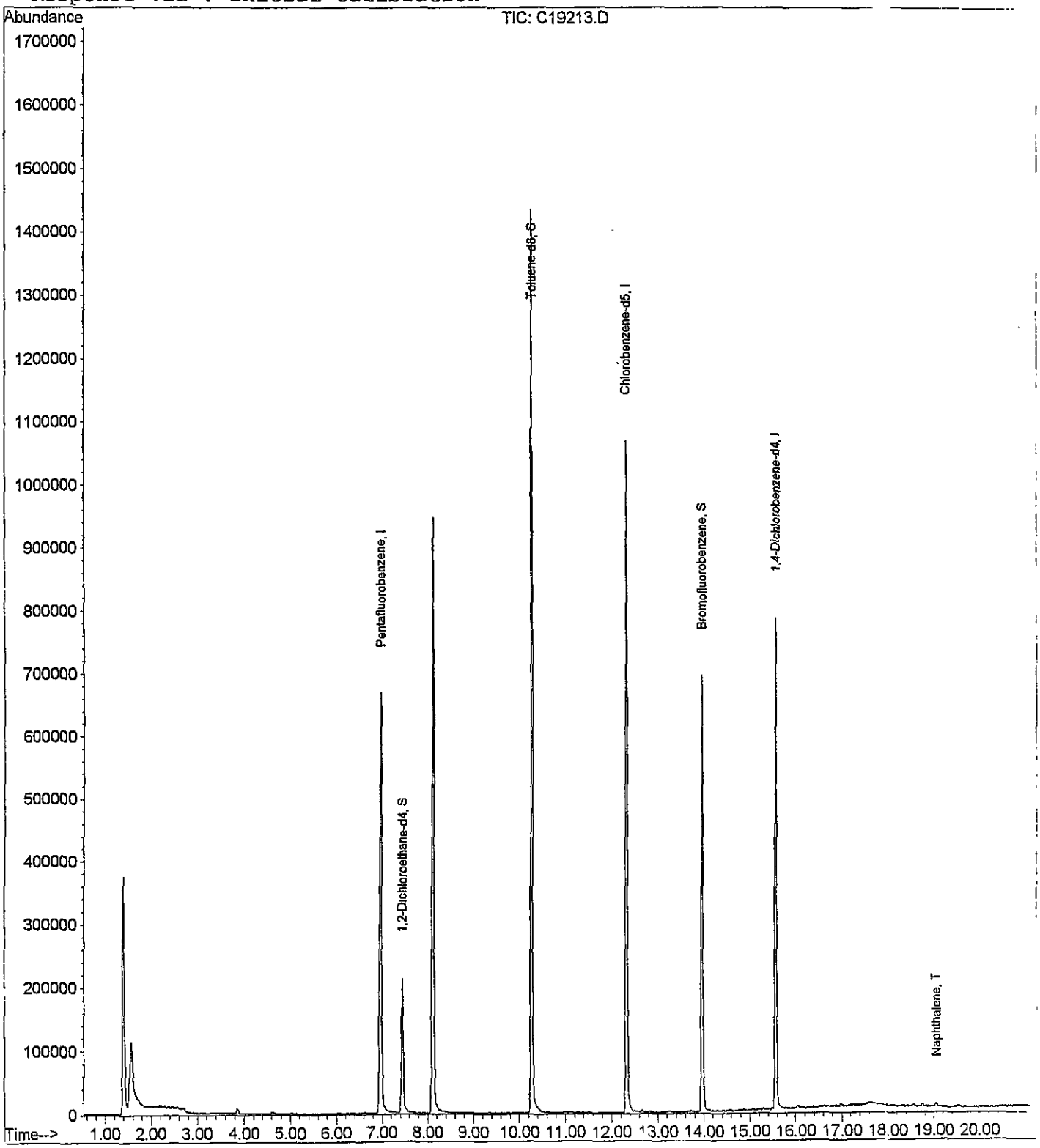
VRR
4-3-01

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\040301\C19213.D Vial: 2
Acq On : 04/03/01 09:36 Operator: JP/VRR
Sample : QVW0403011 25ml DF=1 Inst : VOA-C
Misc : QC/WATER BLANK Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 3 13:53 2001 Quant Results File: 04030125.RES

Method : C:\HPCHEM\1\DATA\040301\04030125.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Tue Apr 03 09:48:22 2001
Response via : Initial Calibration



LSC Area Percent Report

Data File : C:\HPCHEM\1\DATA\040301\C19213.D Vial: 2
Acq On : 04/03/01 09:36 Operator: JP/VRR
Sample : QVW0403011 25ml DF=1 Inst : VOA-C
Misc : QC/WATER BLANK Multiplr: 1.00
MS Integration Params: LSCINT.P

Method : C:\HPCHEM\1\DATA\040301\04030125.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.02 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Signal : TIC

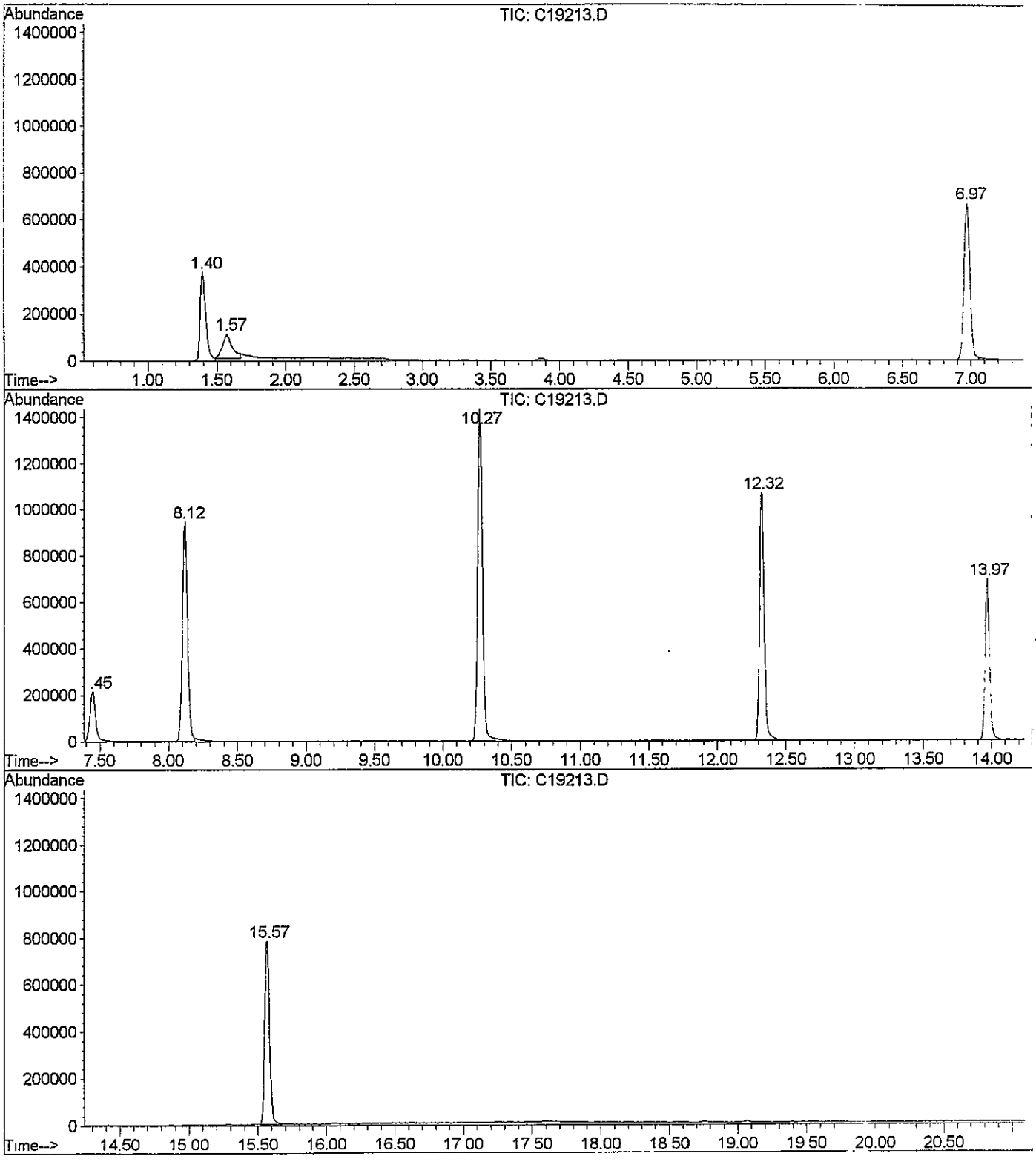
peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	peak area	peak % max.	% of total
1	1.397	131	145	160	rBV	374827	1028330	29.38%	6.364%
2	1.572	160	174	190	rBV	101895	495710	14.16%	3.068%
3	6.972	1059	1072	1086	rBV	667546	2053391	58.67%	12.708%
4	7.447	1137	1151	1173	rBV2	212989	608092	17.37%	3.763%
5	8.121	1251	1263	1274	rBV	944462	2491580	71.18%	15.420%
6	10.274	1610	1621	1638	rBV	1433511	3500165	100.00%	21.662%
7	12.325	1953	1962	1985	rBV	1067130	2550597	72.87%	15.785%
8	13.973	2220	2236	2250	rBV	692817	1593340	45.52%	9.861%
9	15.573	2492	2502	2519	rBV	779135	1836857	52.48%	11.368%

Sum of corrected areas: 16158062

C19213.D 04030125.M Mon Apr 09 17:21:47 2001 INST:VOA-C

LSC Report - Integrated Chromatogram

File : C:\HPCHEM\1\DATA\040301\C19213.D
Operator : JP/VRR
Acquired : 3 Apr 2001 9:36 using AcqMethod 04030125
Instrument : VOA-C
Sample Name: QVW0403011 25ml DF=1
Misc Info : QC/WATER BLANK
Vial Number: 2
Quant File :04030125.RES (RTE Integrator)



C19213.D 04030125.M Mon Apr 09 17:21:49 2001 INST:VOA-C

Tentatively Identified Compound (LSC) summary

Operator ID: JP/VRR Date Acquired: 3 Apr 2001 9:36
Data File: C:\HPCHEM\1\DATA\040301\C19213.D
Name: QVW0403011 25ml DF=1
Misc: QC/WATER BLANK
Method: C:\HPCHEM\1\DATA\040301\04030125.M (RTE Integrator)
Title: 8260 CALIBRATION FOR 25ML WATER
Library Searched: C:\DATABASE\NBS75K.L

TIC Top Hit name	RT	EstConc	Units	Area	IntStd	ISRT	ISArea	ISConc

C19213.D 04030125.M Mon Apr 09 17:21:49 2001 INST:VOA-C

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\040401\C19237.D Vial: 2
Acq On : 04/04/01 15:41 Operator: JP/VRR
Sample : QVW0404011 25ml DF=1 Inst : VOA-C
Misc : QC/WATER BLANK Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 5 12:08 2001 Quant Results File: 04040125.RES

Quant Method : c:\hpchem\1\data\040401\04040125.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Tue Apr 03 09:48:22 2001
Response via : Initial Calibration
DataAcq Meth : 04040125

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	6.97	168	632532	10.00	ug\L	0.00
45) Chlorobenzene-d5	12.33	117	761940	10.00	ug\L	0.00
61) 1,4-Dichlorobenzene-d4	15.57	152	262656	10.00	ug\L	0.00
88) 1.4-Difluorobenzene	0.00	116	0m	10.00	ug\L	-8.12
System Monitoring Compounds						
32) 1,2-Dichloroethane-d4	7.44	65	216423	9.93	ug\L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 99.30%			
46) Toluene-d8	10.27	98	1192591	10.54	ug\L	0.00
Spiked Amount 10.000	Range 87 - 104		Recovery = 105.40%#			
66) Bromofluorobenzene	13.97	95	314310	11.07	ug\L	0.00
Spiked Amount 10.000	Range 84 - 110		Recovery = 110.70%#			
Target Compounds						Qvalue
86) Naphthalene	19.05	128	5153	0.53	ug\L	100

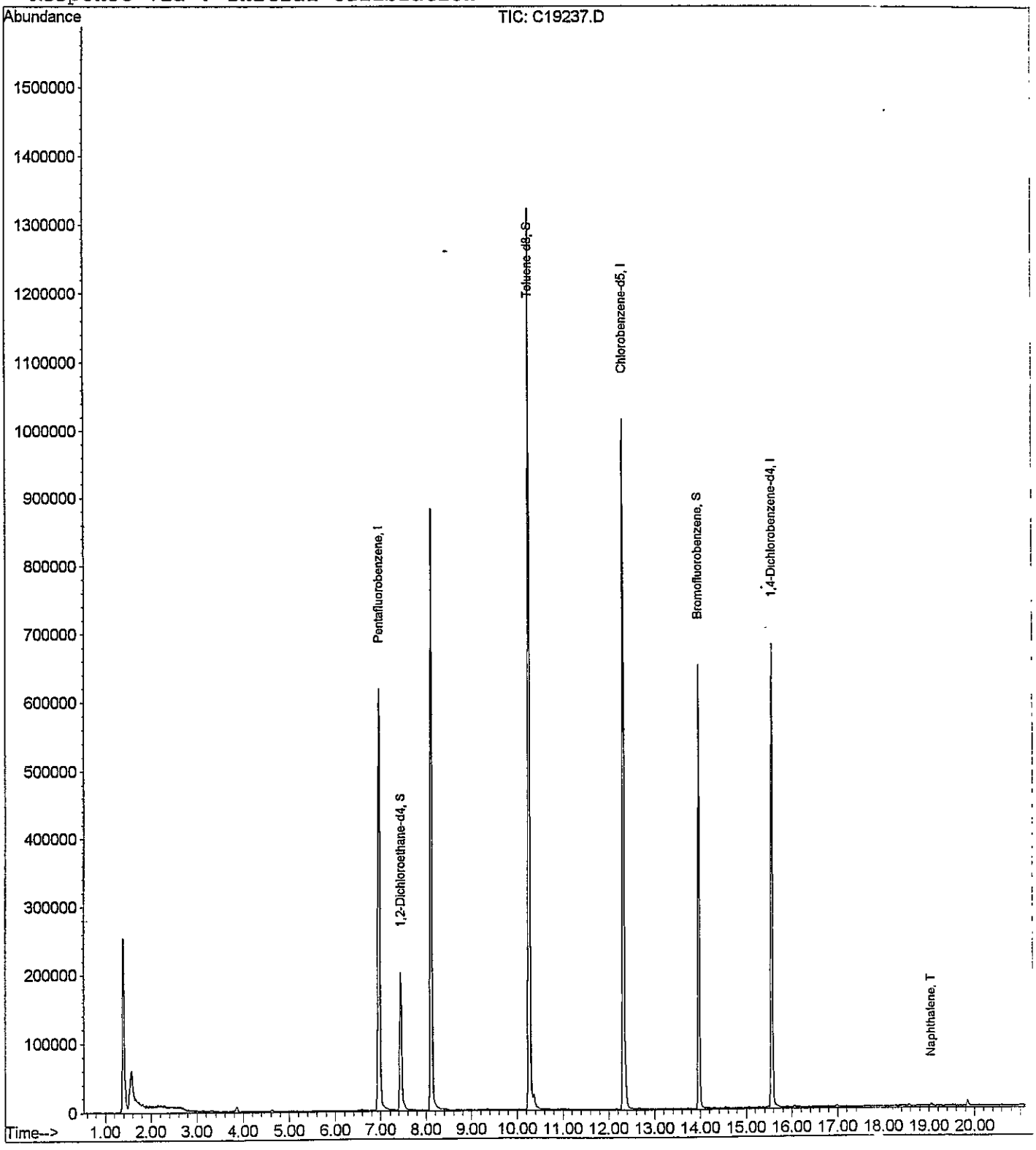
VRR
4/5.01

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\040401\C19237.D Vial: 2
Acq On : 04/04/01 15:41 Operator: JP/VRR
Sample : QVW0404011 25ml DF=1 Inst : VOA-C
Misc : QC/WATER BLANK Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 5 12:08 2001 Quant Results File: 04040125.RES

Method : C:\HPCHEM\1\DATA\040401\04040125.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Tue Apr 03 09:48:22 2001
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\040501\C19251.D Vial: 3
Acq On : 04/05/01 16:21 Operator: JP/VRR
Sample : QVW0405011 25ml DF=1 Inst : VOA-C
Misc : QC/WATER BLANK Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 6 8:42 2001 Quant Results File: 04050125.RES

Quant Method : c:\hpchem\1\data\040501\04050125.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Tue Apr 03 09:48:22 2001
Response via : Initial Calibration
DataAcq Meth : 04050125

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	6.97	168	457198	10.00	ug\L	0.00
45) Chlorobenzene-d5	12.32	117	564135	10.00	ug\L	0.00
61) 1,4-Dichlorobenzene-d4	15.56	152	201788	10.00	ug\L	0.00
88) 1.4-Difluorobenzene	0.00	116	0m	10.00	ug\L	-8.12
System Monitoring Compounds						
32) 1,2-Dichloroethane-d4	7.44	65	147032	9.33	ug\L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 93.30%			
46) Toluene-d8	10.26	98	855703	10.21	ug\L	0.00
Spiked Amount 10.000	Range 87 - 104		Recovery = 102.10%			
66) Bromofluorobenzene	13.96	95	225507	10.34	ug\L	0.00
Spiked Amount 10.000	Range 84 - 110		Recovery = 103.40%			

Target Compounds Qvalue

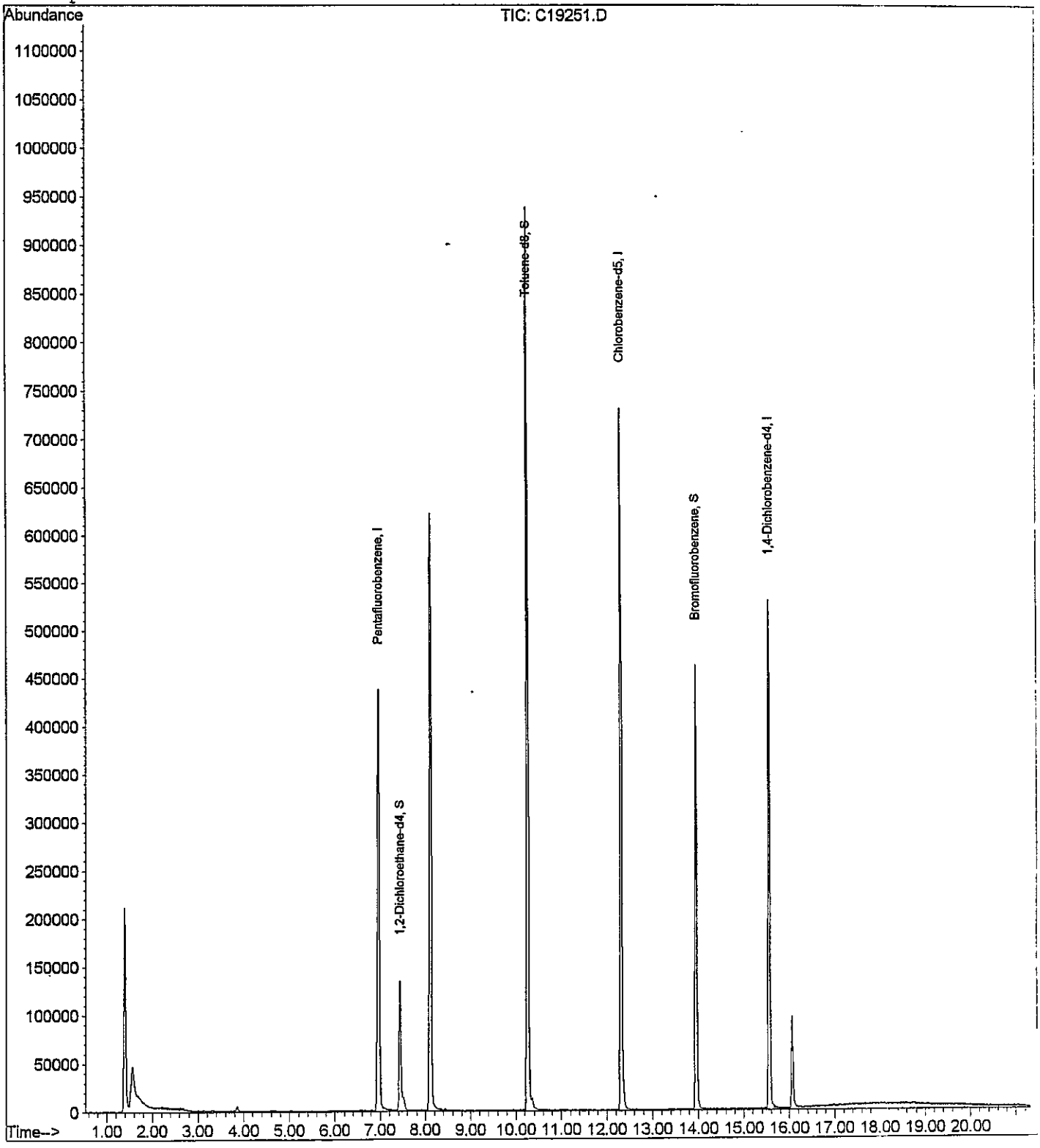
VAR 4.6.01

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\040501\C19251.D Vial: 3
Acq On : 04/05/01 16:21 Operator: JP/VRR
Sample : QVW0405011 25ml DF=1 Inst : VOA-C
Misc : QC/WATER BLANK Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 6 8:42 2001 Quant Results File: 04050125.RES

Method : C:\HPCHEM\1\DATA\040501\04050125.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Tue Apr 03 09:48:22 2001
Response via : Initial Calibration



VOA GC/MS CALIBRATION CHECKLIST
SW-846-8260B

DATE / INSTRUMENT: 4/2/01 / C	METHOD: 8260B
MATRIX: Water - 25 ml	

Are all standards within expiration dates for both stock and serial standards?	~~Y~~	N	NA
Are Tuning results compliant with method?	~~Y~~	N	NA
Are all Initial Calibration RSDs compliant for CCCs and non-CCC compounds?	Y	~~N~~	NA
If RSDs are non-compliant, was initial calibration curve constructed using one of the alternative methods from method 8000B? (List analytes below)	~~Y~~	N	NA

Bromomethane — Linear	cis-1,4-Dichloro-2-Butene — Linear
Acetone — Linear	1,2-Dibromo-3-chloro propane — Linear
1,4 Dioxane — Linear	Hexachloro butadiene — linear
2-chlorovinylether — Linear	Naphthalene — linear

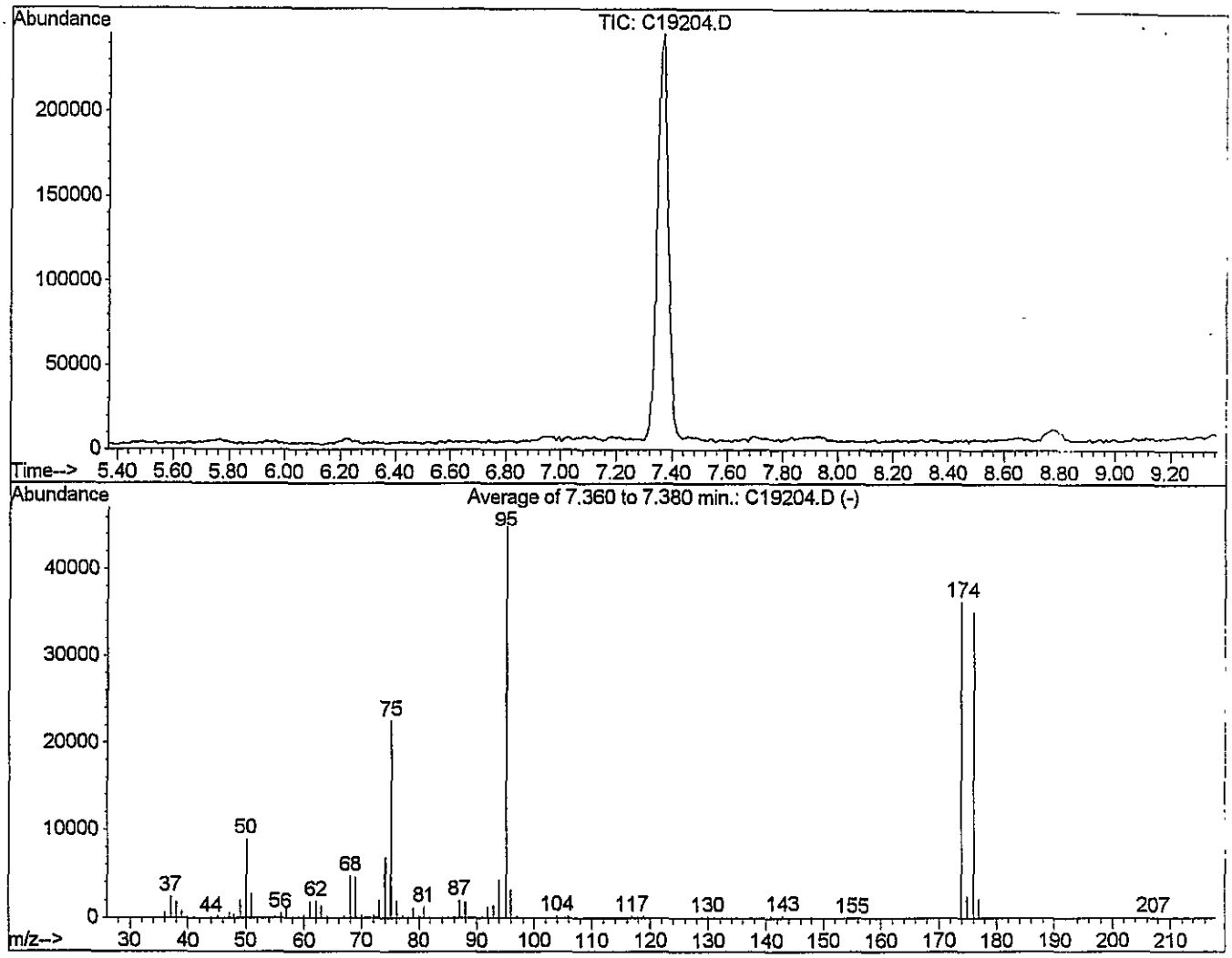
Is the runlog completely filled out (including review signature/date)?	Y	N	NA
Are all mistakes single lined, initialled, and dated?	Y	N	NA

Analyst: VRR	Reviewer: JP
Date: 4-3-01 Time: 9:30	Date: 04.03.2001 Time: 12:00

BFB

Data File : C:\HPCHEM\1\DATA\040201\C19204.D
Acq On : 04/02/01 19:18
Sample : BFB 50 ng
Misc :
MS Integration Params: rteint.p
Method : C:\HPCHEM\1\DATA\040201\04020125.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER

Vial: 1
Operator: JP/VRR
Inst : VOA-C
Multiplr: 1.00



AutoFind: Scans 623, 624, 625; Background Corrected with Scan 615

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	20.0	8978	PASS
75	95	30	60	50.3	22578	PASS
95	95	100	100	100.0	44888	PASS
96	95	5	9	7.1	3195	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	81.1	36421	PASS
175	174	5	9	6.8	2487	PASS
176	174	95	101	96.7	35237	PASS
177	176	5	9	6.2	2198	PASS

C19204.D 04020125.M Tue Apr 03 07:46:04 2001 INST:VOA-C

Response Factor Report VOA-C

Method : C:\HPCHEM\1\DATA\040201\04020125.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Tue Apr 03 07:41:54 2001
Response via : Initial Calibration

Calibration Files
1 =C19207.D 4 =C19206.D 10 =C19205.D
20 =C19208.D 30 =C19209.D 40 =C19210.D

		Compound	1	4	10	20	30	40	Avg	%RSD
1)	I	Pentafluorobenzene	----------ISTD----------							
2)	T	Dichlorodifluoromet	0.705	0.617	0.640	0.621	0.600	0.606	0.632	6.09
3)	TP	Chloromethane	0.626	0.498	0.534	0.492	0.484	0.488	0.520	10.55
4)	TC	Vinyl Chloride	0.524	0.456	0.507	0.454	0.450	0.456	0.474	6.80
5)	T	Bromomethane	0.153	0.135	0.126	0.106	0.108	0.110	0.123	15.08
6)	T	Chloroethane	0.241	0.204	0.233	0.198	0.200	0.202	0.213	8.95
7)	T	Trichlorofluorometh	0.674	0.583	0.641	0.591	0.581	0.585	0.609	6.45
8)	T	Acrolein	0.018	0.018	0.019	0.020	0.021	0.020	0.019	5.83
9)	T	Acrylonitrile	0.046	0.036	0.036	0.040	0.039	0.040	0.040	9.24
10)	TMC	1,1-Dichloroethene	0.494	0.431	0.453	0.431	0.428	0.437	0.446	5.69
11)	T	Acetone		0.017	0.013	0.012	0.012	0.012	0.013	17.19
12)	T	Iodomethane	0.460	0.514	0.585	0.637	0.678	0.632	0.584	14.13
13)	T	Allylchloride	0.632	0.568	0.592	0.583	0.584	0.571	0.588	3.92
14)	T	Carbon Disulfide	1.675	1.533	1.585	1.547	1.625	1.570	1.589	3.33
15)	T	Acetonitrile	0.077	0.068	0.073	0.072	0.072	0.081	0.074	6.20
16)	T	Methylene Chloride	0.319	0.228	0.234	0.230	0.228	0.231	0.245	14.79
17)	T	trans-1,2-Dichloroe	0.482	0.443	0.461	0.444	0.447	0.445	0.454	3.40
18)	T	MethylTertButylEthe	0.527	0.449	0.459	0.478	0.478	0.470	0.477	5.72
19)	TP	1,1-Dichloroethane	0.802	0.702	0.745	0.728	0.756	0.756	0.748	4.47
20)	T	Vinyl Acetate	0.200	0.197	0.196	0.211	0.232	0.222	0.210	7.14
21)	T	2,2-Dichloropropane	0.791	0.708	0.740	0.667	0.661	0.643	0.702	8.03
22)	T	cis-1,2-Dichloroeth	0.474	0.418	0.437	0.432	0.446	0.443	0.442	4.21
23)	T	2-Butanone	0.010	0.013	0.011	0.010	0.011	0.011	0.011	9.18
24)	T	Propionitrile	0.013	0.012	0.012	0.013	0.014	0.013	0.013	7.18
25)	T	Methacrylonitrile	0.077	0.071	0.073	0.078	0.079	0.077	0.076	4.00
26)	T	Bromochloromethane	0.150	0.137	0.139	0.142	0.145	0.143	0.143	3.35
27)	TC	Chloroform	0.869	0.765	0.772	0.776	0.798	0.798	0.796	4.80
28)	T	1,1,1-Trichloroetha	0.833	0.740	0.771	0.765	0.779	0.785	0.779	3.94
29)	T	Carbon Tetrachlorid	0.669	0.599	0.636	0.628	0.641	0.650	0.637	3.66
30)	T	1,4-Dioxane	0.000	0.001	0.001	0.001	0.001	0.001	0.001	47.63
31)	T	1,1-Dichloropropene	0.253	0.216	0.225	0.220	0.223	0.223	0.227	5.87
32)	S	1,2-Dichloroethane-	0.376	0.336	0.337	0.343	0.344	0.331	0.345	4.71
33)	TM	Benzene	1.969	1.645	1.670	1.684	1.712	1.702	1.730	6.90
34)	T	Isobutyl alcohol	0.004	0.003	0.003	0.003	0.004	0.004	0.003	9.14
35)	T	1,2-Dichloroethane	0.411	0.344	0.359	0.370	0.372	0.379	0.372	6.05
36)	TM	Trichloroethene	0.572	0.504	0.514	0.533	0.545	0.541	0.535	4.51
37)	TC	1,2-Dichloropropane	0.402	0.358	0.357	0.374	0.391	0.396	0.380	5.15
38)	T	Dibromomethane	0.143	0.125	0.134	0.141	0.144	0.143	0.138	5.40
39)	T	Methylmethacrylate	0.096	0.086	0.093	0.101	0.107	0.108	0.098	8.86
40)	T	Bromodichloromethan	0.465	0.427	0.460	0.486	0.502	0.511	0.475	6.47
41)	T	2-Nitropropane	0.033	0.026	0.027	0.031	0.034	0.033	0.031	10.81
42)	T	2-Chloroethyl-vinyl	0.066	0.060	0.070	0.082	0.092	0.082	0.076	15.89
43)	T	cis-1,3-Dichloropro	0.455	0.452	0.490	0.520	0.536	0.542	0.499	7.95
44)	T	4-Methyl-2-Pentanon	0.019	0.017	0.019	0.021	0.024	0.022	0.020	12.10

(#) = Out of Range

Response Factor Report VOA-C

Method : C:\HPCHEM\1\DATA\040201\04020125.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Tue Apr 03 07:41:54 2001
Response via : Initial Calibration

Calibration Files
1 =C19207.D 4 =C19206.D 10 =C19205.D
20 =C19208.D 30 =C19209.D 40 =C19210.D

		Compound	1	4	10	20	30	40	Avg	%RSD
45)	I	Chlorobenzene-d5	----------ISTD----------							
46)	S	Toluene-d8	1.660	1.529	1.473	1.433	1.428	1.387	1.485	6.60
47)	TMC	Toluene	1.015	0.872	0.872	0.862	0.861	0.873	0.893	6.77
48)	T	trans-1,3-Dichlorop	0.254	0.238	0.262	0.282	0.290	0.295	0.270	8.35
49)	T	Ethylmethacrylate	0.170	0.161	0.167	0.187	0.197	0.201	0.180	9.36
50)	T	1,1,2-Trichloroetha	0.129	0.118	0.119	0.127	0.128	0.130	0.125	4.25
51)	T	Tetrachloroethene	0.401	0.334	0.341	0.332	0.328	0.339	0.346	7.99
52)	T	1,3-Dichloropropane	0.295	0.267	0.264	0.281	0.282	0.290	0.280	4.37
53)	T	2-Hexanone	0.053	0.051	0.050	0.058	0.064	0.062	0.056	10.38
54)	T	Dibromochloromethan	0.172	0.169	0.182	0.199	0.206	0.210	0.190	9.45
55)	T	1,2-Dibromoethane	0.138	0.125	0.132	0.139	0.143	0.144	0.137	5.18
56)	TMP	Chlorobenzene	1.031	0.880	0.901	0.894	0.899	0.897	0.917	6.15
57)	T	1,1,1,2-Tetrachloro	0.274	0.256	0.278	0.270	0.271	0.270	0.270	2.82
58)	TC	Ethylbenzene	1.966	1.743	1.779	1.688	1.662	1.625	1.744	7.01
59)	TG	total-Xylene	0.699	0.616	0.633	0.606	0.593	0.588	0.623	6.61
60)	T	Styrene	0.901	0.834	0.908	0.894	0.892	0.899	0.888	3.04
61)	I	1,4-Dichlorobenzene-d	----------ISTD----------							
62)	TP	Bromoform	0.194	0.175	0.193	0.213	0.224	0.233	0.205	10.52
63)	T	Isopropylbenzene	5.087	4.443	4.549	4.284	4.254	4.261	4.480	7.14
64)	T	cis-1,4-dichloro-2-	0.067	0.075	0.085	0.096	0.104	0.106	0.089	17.85
65)	T	trans-1,4-dichloro-	0.406	0.382	0.379	0.389	0.402	0.397	0.393	2.78
66)	S	Bromofluorobenzene		1.100	1.086	1.080	1.082	1.059	1.081	1.37
67)	T	Bromobenzene	0.750	0.695	0.705	0.711	0.717	0.739	0.720	2.92
68)	TP	1,1,2,2-Tetrachloro	0.374	0.337	0.331	0.353	0.358	0.360	0.352	4.47
69)	T	1,2,3-Trichloroprop	0.406	0.382	0.379	0.389	0.402	0.397	0.393	2.78
70)	T	n-Propylbenzene	5.988	5.333	5.494	5.145	5.095	5.080	5.356	6.51
71)	T	2-Chlorotoluene	3.246	2.929	2.935	2.831	2.836	2.862	2.940	5.32
72)	T	4-Chlorotoluene	3.196	2.877	3.232	3.108	3.114	3.188	3.119	4.10
73)	T	1,3,5-Trimethylbenz	3.922	3.501	3.534	3.350	3.359	3.379	3.508	6.19
74)	T	Pentachloroethane	0.440	0.424	0.438	0.435	0.435	0.447	0.437	1.73
75)	T	tert-Butylbenzene	3.512	2.963	3.061	2.902	2.861	2.923	3.037	7.97
76)	T	1,2,4-Trimethylbenz	3.668	3.269	3.422	3.199	3.164	3.174	3.316	5.95
77)	T	sec-Butylbenzene	5.133	4.448	4.564	4.269	4.197	4.313	4.487	7.63
78)	T	1,3-Dichlorobenzene	1.707	1.480	1.509	1.458	1.430	1.444	1.505	6.83
79)	T	Isopropyltoluene	3.892	3.394	3.581	3.330	3.269	3.319	3.464	6.81
80)	T	1,4-Dichlorobenzene	1.665	1.407	1.439	1.426	1.428	1.460	1.471	6.56
81)	T	1,2-Dichlorobenzene	1.270	1.139	1.129	1.136	1.130	1.148	1.159	4.76
82)	T	n-Butylbenzene	3.710	3.139	3.369	3.200	3.201	3.329	3.325	6.24
83)	T	1,2-Dibromo-3-chlor	0.060	0.040	0.045	0.038	0.038	0.040	0.044	19.51
84)	T	1,2,4-trichlorobenz	0.722	0.611	0.584	0.576	0.595	0.613	0.617	8.62
85)	T	Hexachlorobutadiene	0.614	0.515	0.484	0.425	0.416	0.424	0.480	15.99
86)	T	Naphthalene	1.158	0.788	0.606	0.633	0.678	0.710	0.762	26.79
87)	T	1,2,3-Trichlorobenz	0.519	0.418	0.407	0.387	0.405	0.420	0.426	11.03

(#) = Out of Range

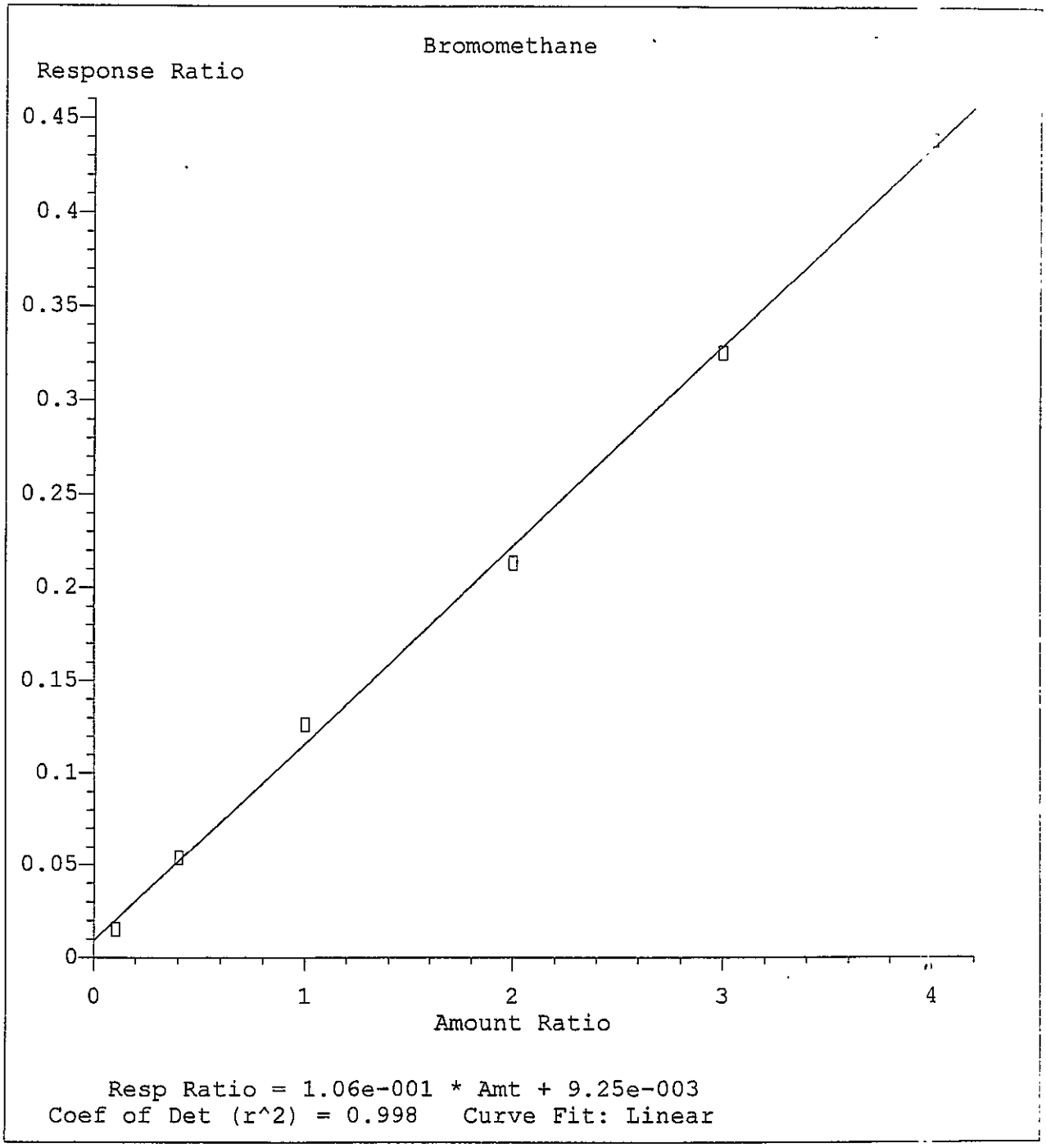
Response Factor Report VOA-C

Method : C:\HPCHEM\1\DATA\040201\04020125.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Tue Apr 03 07:41:54 2001
Response via : Initial Calibration

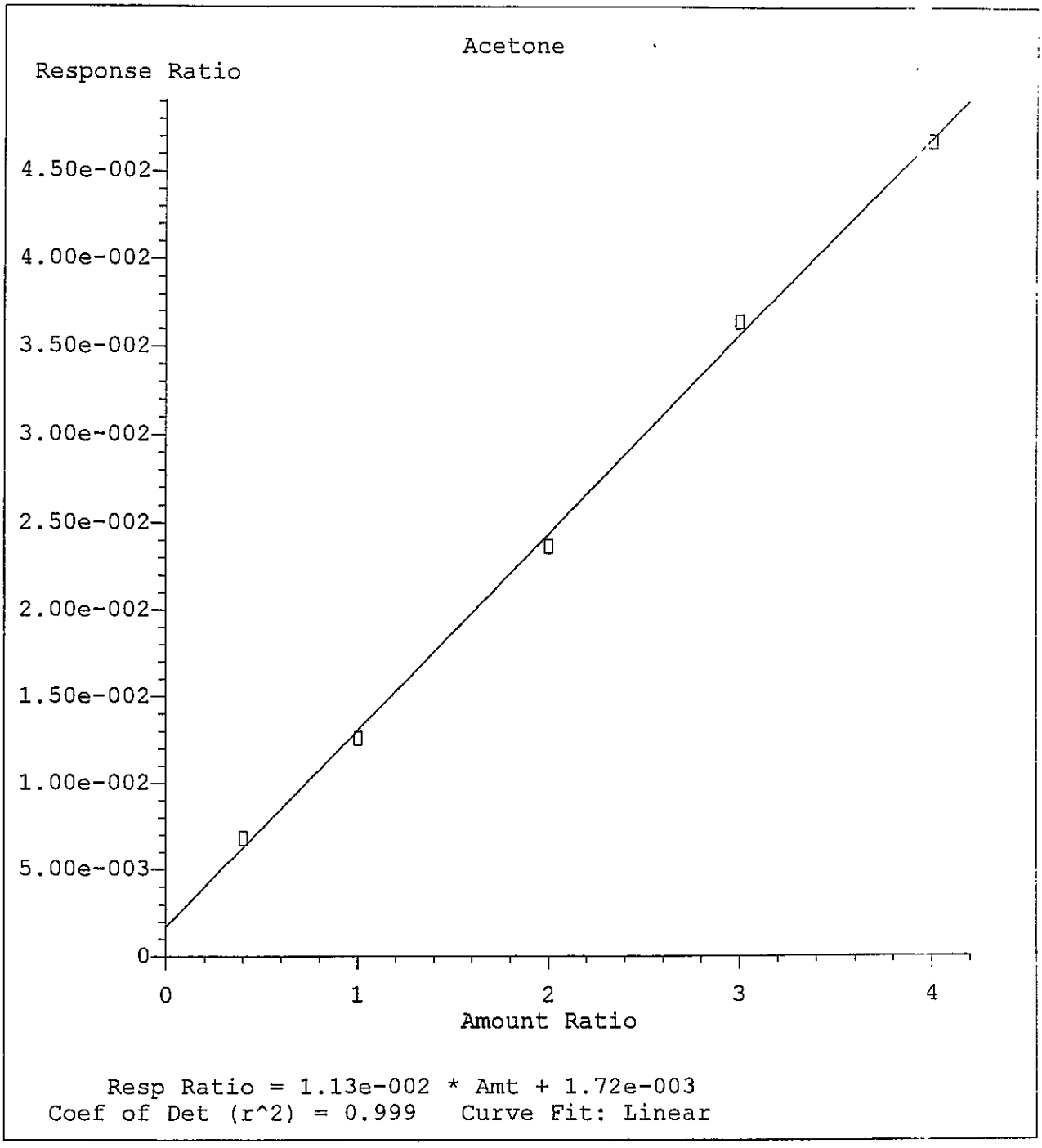
Calibration Files
1 =C19207.D 4 =C19206.D 10 =C19205.D
20 =C19208.D 30 =C19209.D 40 =C19210.D

	Compound	1	4	10	20	30	40	Avg	%RSD
88) i	1.4-Difluorobenzene	----------ISTD----------							

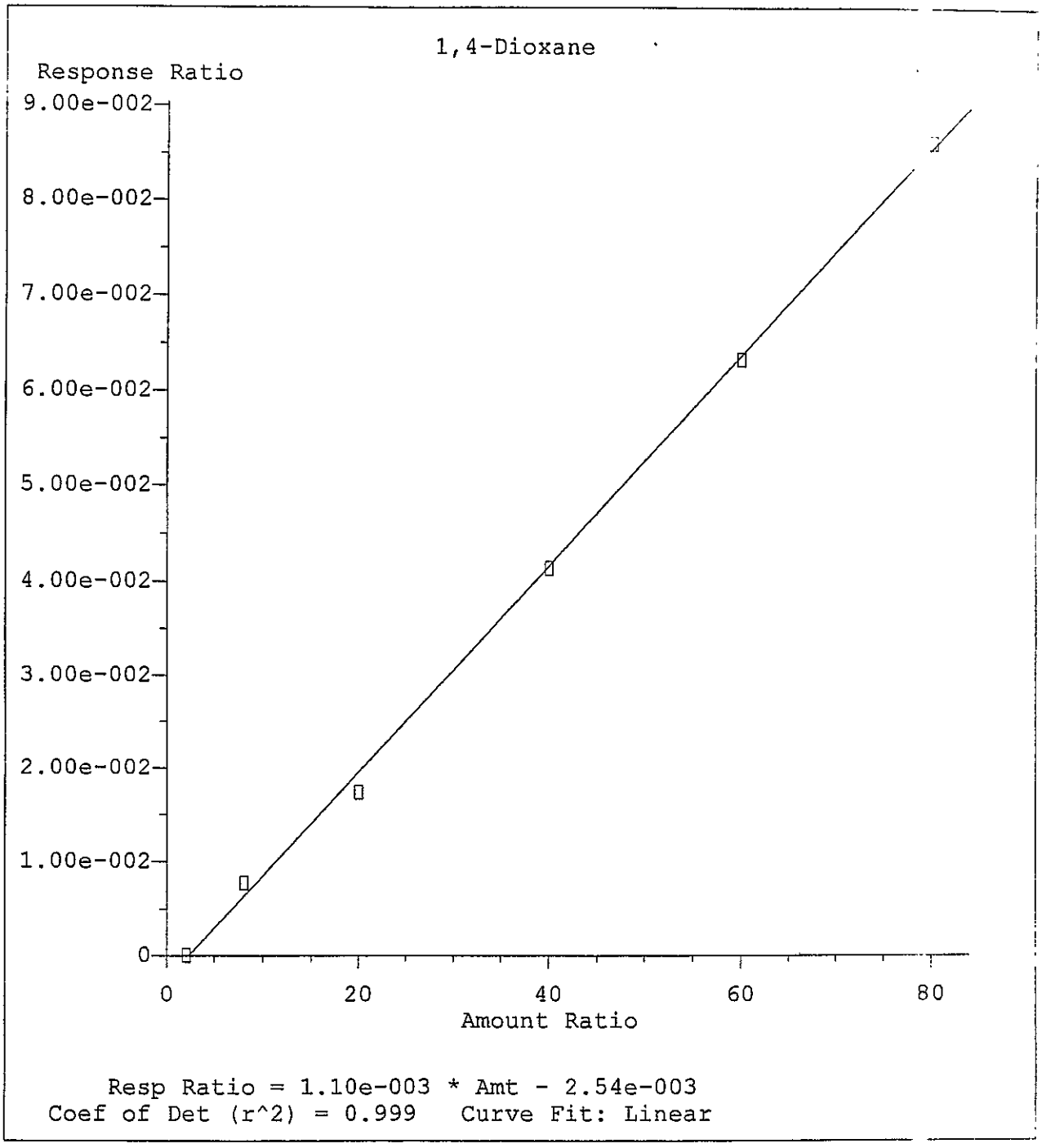
(#) = Out of Range



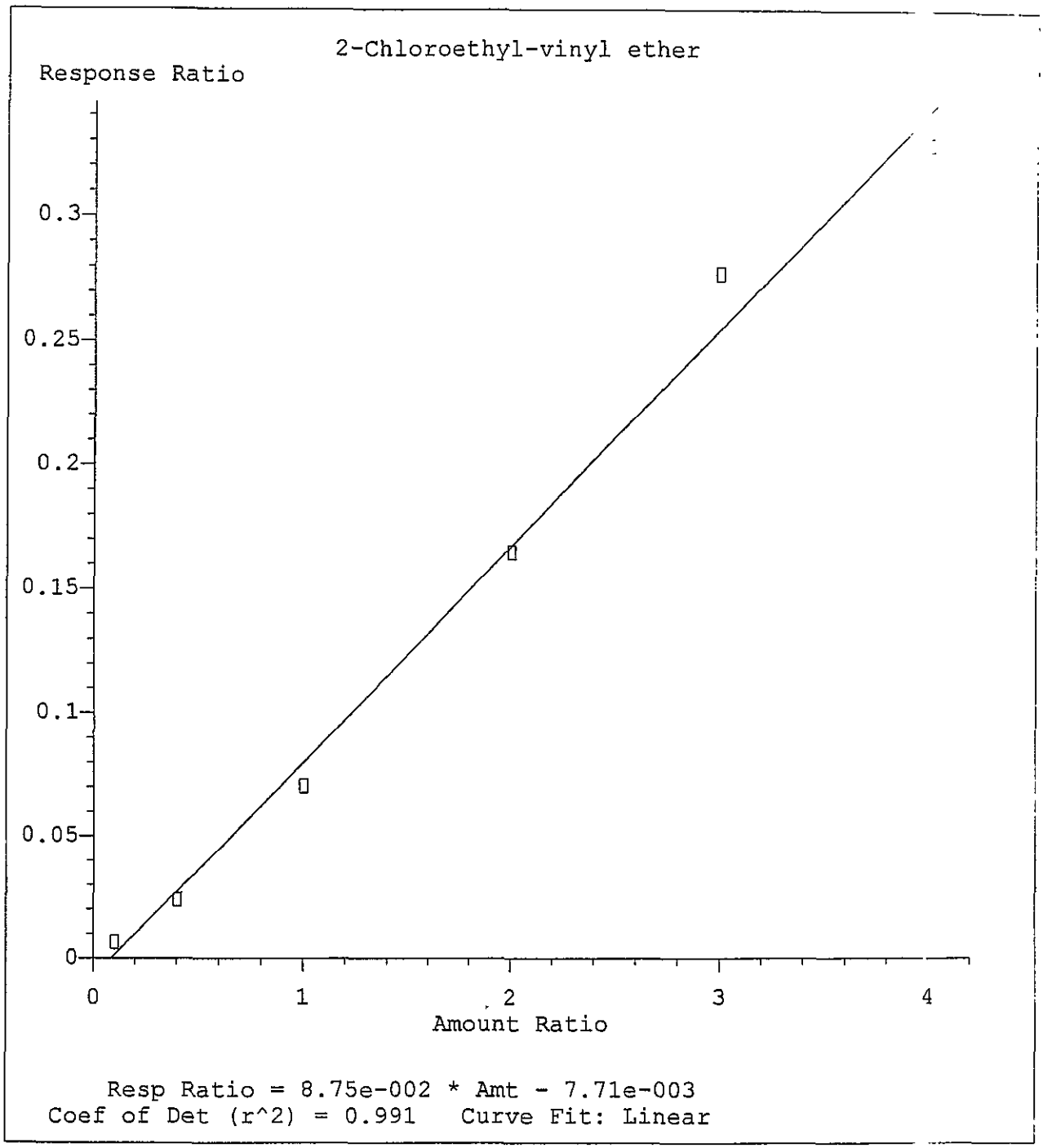
Method Name: C:\HPCHEM\1\DATA\040201\04020125.M
Calibration Table Last Updated: Tue Apr 03 07:45:18 2001



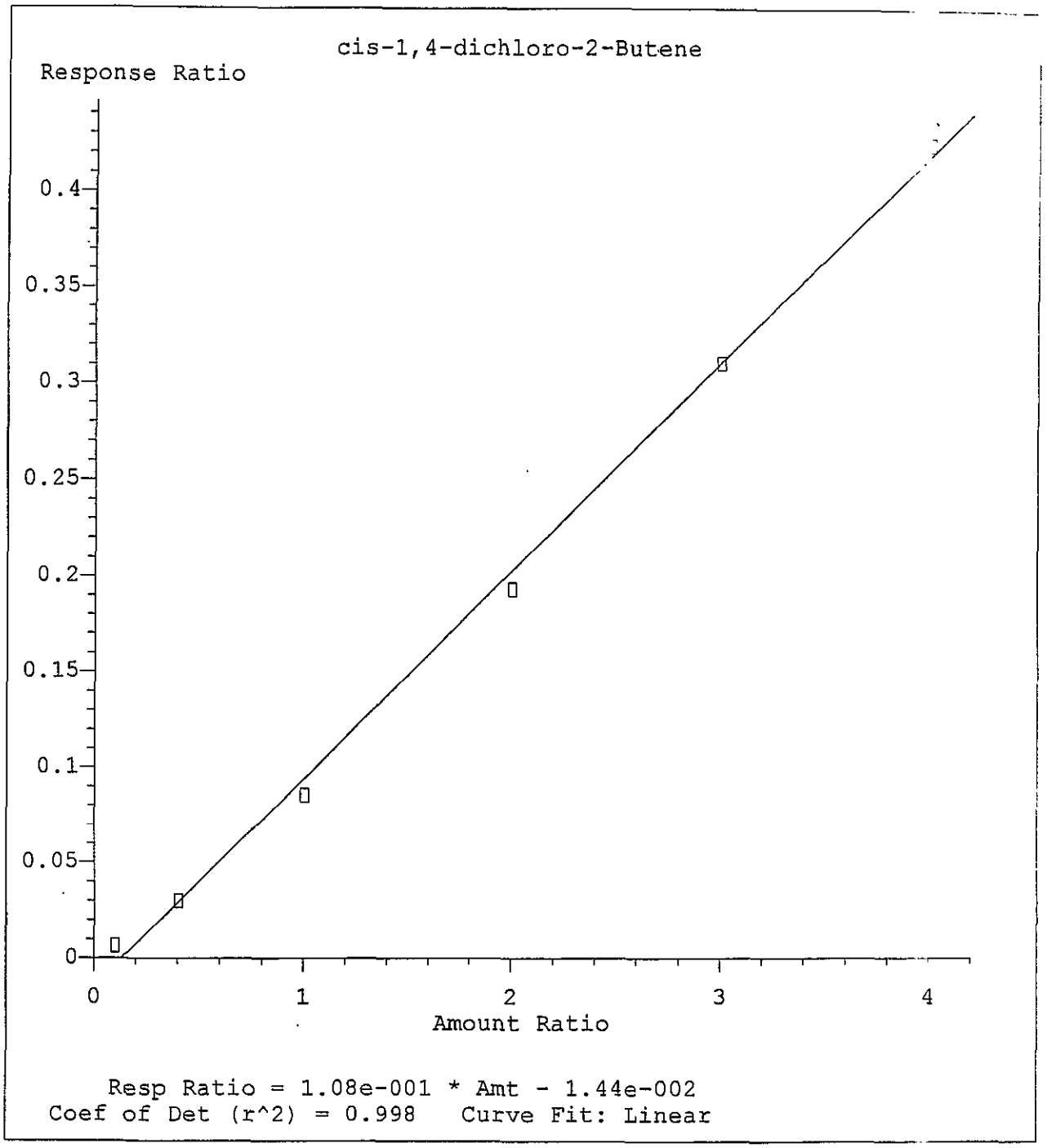
Method Name: C:\HPCHEM\1\DATA\040201\04020125.M
Calibration Table Last Updated: Tue Apr 03 07:45:18 2001



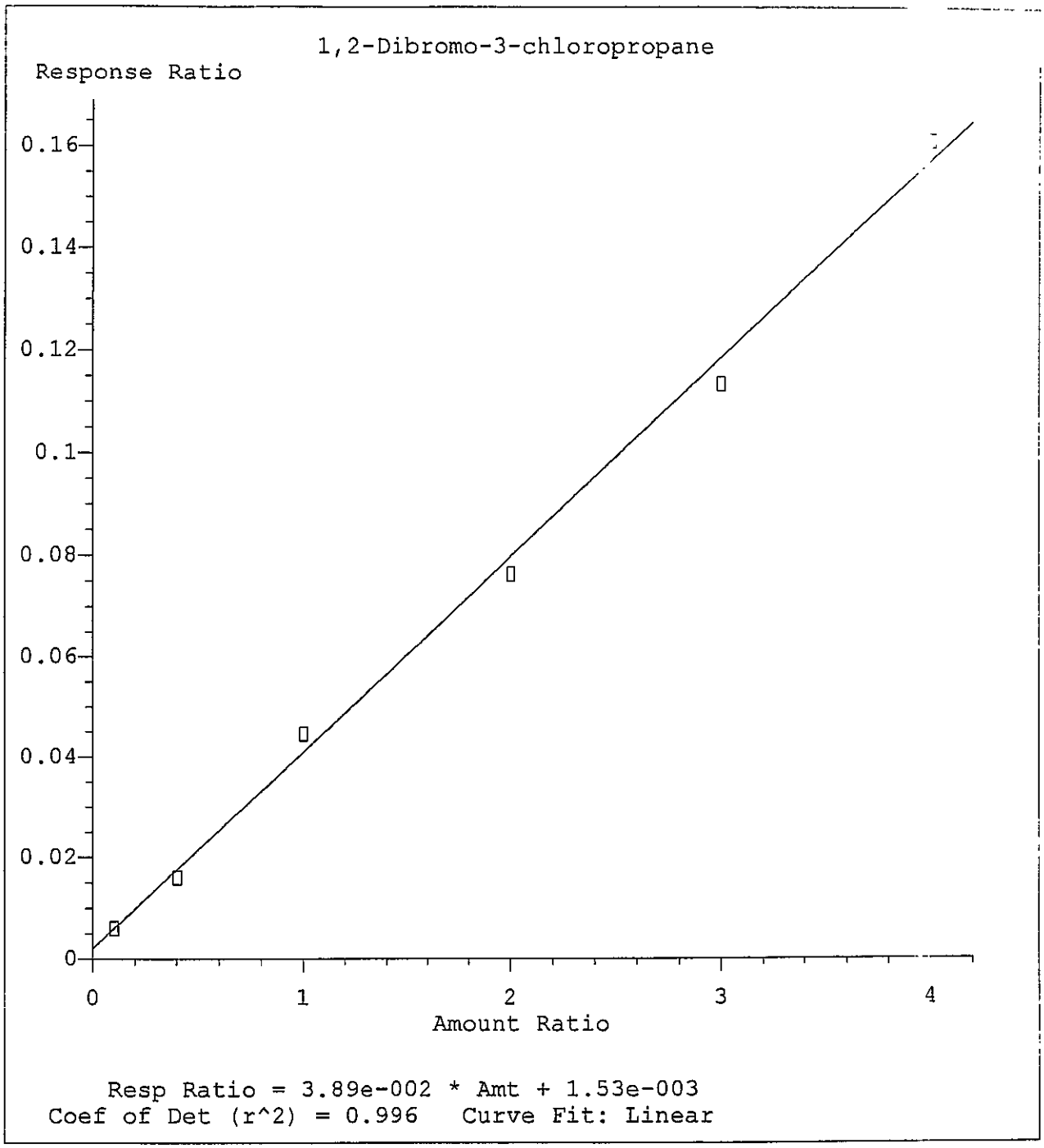
Method Name: C:\HPCHEM\1\DATA\040201\04020125.M
Calibration Table Last Updated: Tue Apr 03 07:45:18 2001



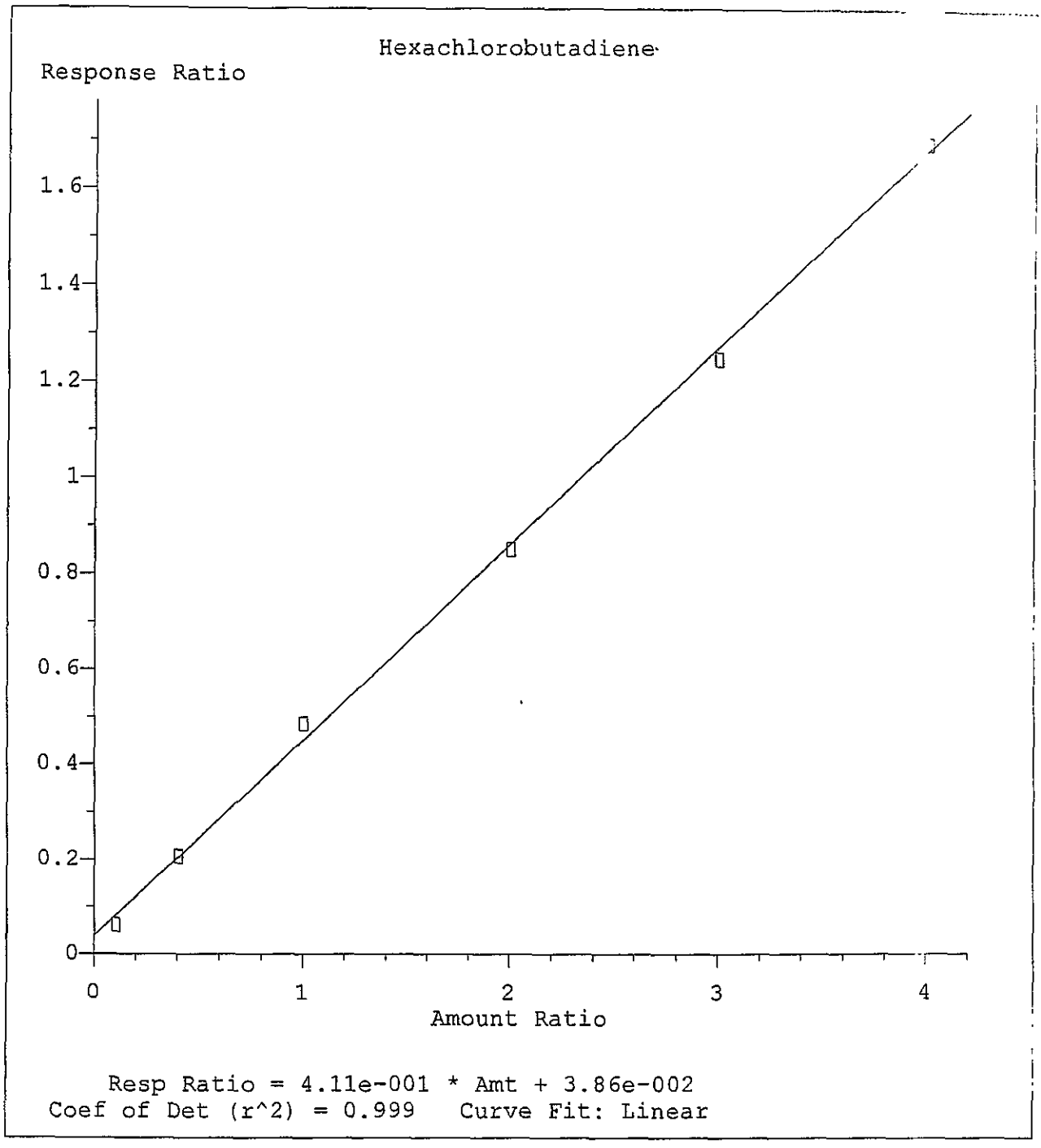
Method Name: C:\HPCHEM\1\DATA\040201\04020125.M
Calibration Table Last Updated: Tue Apr 03 07:45:18 2001



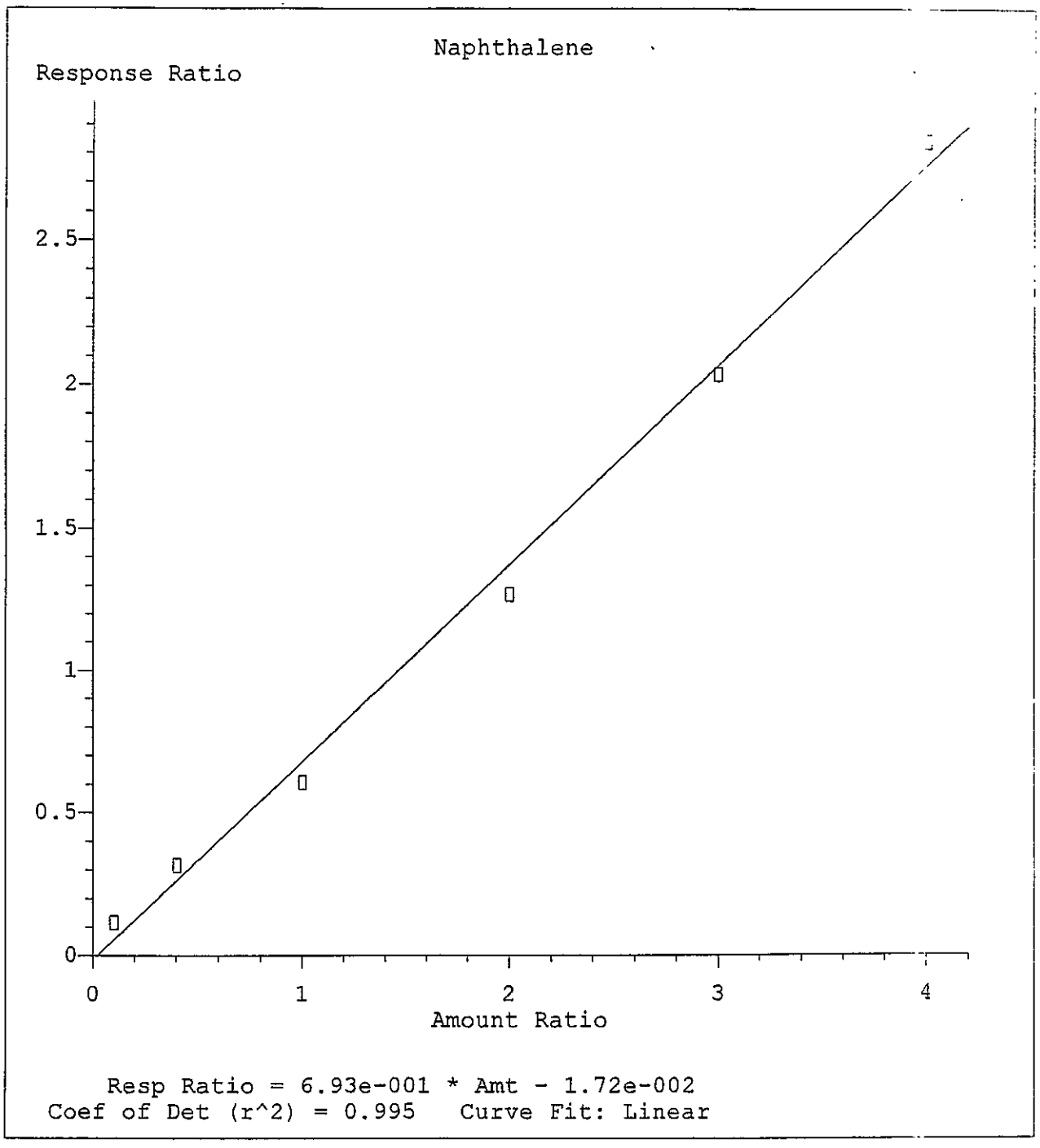
Method Name: C:\HPCHEM\1\DATA\040201\04020125.M
Calibration Table Last Updated: Tue Apr 03 07:45:18 2001



Method Name: C:\HPCHEM\1\DATA\040201\04020125.M
Calibration Table Last Updated: Tue Apr 03 07:45:18 2001



Method Name: C:\HPCHEM\1\DATA\040201\04020125.M
Calibration Table Last Updated: Tue Apr 03 07:45:18 2001



Method Name: C:\HPCHEM\1\DATA\040201\04020125.M
Calibration Table Last Updated: Tue Apr 03 07:45:18 2001

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\040201\C19207.D Vial: 3
Acq On : 04/02/01 20:57 Operator: JP/VRR
Sample : ICV 1 ppb (V01034,V01028) Inst : VOA-C
Misc : WATER 25ml DF=1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 2 21:39 2001 Quant Results File: 04020125.RES

Quant Method : c:\hpchem\1\data\040201\04020125.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Wed Feb 28 13:34:37 2001
Response via : Initial Calibration
DataAcq Meth : 04020125

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Pentafluorobenzene	6.97	168	595207	10.00	ug\L		0.00
45) Chlorobenzene-d5	12.33	117	761598	10.00	ug\L		0.01
61) 1,4-Dichlorobenzene-d4	15.57	152	297170	10.00	ug\L		0.00
88) 1.4-Difluorobenzene	8.11	116	1648	10.00	ug\L		0.00
System Monitoring Compounds							
32) 1,2-Dichloroethane-d4	7.45	65	22390	0.94	ug\L		0.01
Spiked Amount 10.000	Range 80 - 120		Recovery = 9.40%#				
46) Toluene-d8	10.28	98	126393	1.08	ug\L		0.01
Spiked Amount 10.000	Range 87 - 104		Recovery = 10.80%#				
66) Bromofluorobenzene	13.97	95	35013	0.96	ug\L		0.01
Spiked Amount 10.000	Range 84 - 110		Recovery = 9.60%#				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.56	85	41965	0.82	ug\L		100
3) Chloromethane	1.75	50	37277	1.05	ug\L		99
4) Vinyl Chloride	1.84	62	31175	1.00	ug\L		98
6) Chloroethane	2.27	64	14372	0.91	ug\L	#	86
7) Trichlorofluoromethane	2.54	101	40140	0.84	ug\L	#	100
8) Acrolein	3.09	56	2126	4.56	ug\L	#	78
9) Acrylonitrile	4.30	53	5476m	2.39	ug\L		
10) 1,1-Dichloroethene	3.16	96	29398	1.05	ug\L		93
11) Acetone	3.31	58	2471	0.84	ug\L		89
12) Iodomethane	3.37	142	27400	0.74	ug\L		98
13) Allylchloride	3.66	39	37600	0.94	ug\L		90
14) Carbon Disulfide	3.44	76	99676	1.06	ug\L		96
15) Acetonitrile	3.66	41	46068	8.72	ug\L	#	91
16) Methylene Chloride	3.86	86	18987	1.26	ug\L		96
17) trans-1,2-Dichloroethene	4.24	96	28703	0.99	ug\L		95
18) MethylTertButylEther	4.24	73	31390	0.97	ug\L	#	88
19) 1,1-Dichloroethane	5.01	63	47754	0.95	ug\L	#	94
20) Vinyl Acetate	5.15	43	11905m	0.94	ug\L		
21) 2,2-Dichloropropane	6.02	77	47096	0.97	ug\L	#	84
22) cis-1,2-Dichloroethene	6.08	96	28214	1.02	ug\L		93
24) Propionitrile	6.33	54	7852	9.78	ug\L	#	93
25) Methacrylonitrile	6.53	41	45658	9.19	ug\L		96
26) Bromochloromethane	6.50	128	8941	1.02	ug\L		98
27) Chloroform	6.66	83	51733	0.97	ug\L		97
28) 1,1,1-Trichloroethane	6.86	97	49553	0.93	ug\L		98
29) Carbon Tetrachloride	7.10	119	39799	0.88	ug\L		94
30) 1,4-Dioxane	9.07	88	45	30.23	ug\L	#	1
31) 1,1-Dichloropropene	7.12	77	15075	1.04	ug\L		95

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\040201\C19207.D Vial: 3
Acq On : 04/02/01 20:57 Operator: JP/VRR
Sample : ICV 1 ppb (V01034,V01028) Inst : VOA-C
Misc : WATER 25ml DF=1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 2 21:39 2001 Quant Results File: 04020125.RES

Quant Method : c:\hpchem\1\data\040201\04020125.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Wed Feb 28 13:34:37 2001
Response via : Initial Calibration
DataAcq Meth : 04020125

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
33)	Benzene	7.47	78	117203	1.06	ug\L		100
34)	Isobutyl alcohol	7.58	43	4583m	10.52	ug\L		
35)	1,2-Dichloroethane	7.58	62	24450	0.95	ug\L		99
36)	Trichloroethene	8.49	95	34062	0.99	ug\L		97
37)	1,2-Dichloropropane	8.85	63	23913	0.99	ug\L		99
38)	Dibromomethane	9.06	93	8493	0.93	ug\L		99
39)	Methylmethacrylate	9.06	69	5687	0.93	ug\L		93
40)	Bromodichloromethane	9.30	83	27678	0.85	ug\L		99
41)	2-Nitropropane	9.67	43	1968	1.06	ug\L		91
42)	2-Chloroethyl-vinyl ether	9.74	63	3953	0.88	ug\L		96
43)	cis-1,3-Dichloropropene	9.94	75	27090	0.85	ug\L		95
44)	4-Methyl-2-Pentanone	10.17	85	1150	0.96	ug\L	#	1
47)	Toluene	10.37	92	77332	1.07	ug\L		100
48)	trans-1,3-Dichloropropene	10.76	75	19321	0.86	ug\L		99
49)	Ethylmethacrylate	10.85	69	12934	0.90	ug\L		98
50)	1,1,2-Trichloroethane	11.02	83	9811	0.96	ug\L		96
51)	Tetrachloroethene	11.13	164	30562	1.13	ug\L		98
52)	1,3-Dichloropropane	11.24	76	22476	0.99	ug\L		98
53)	2-Hexanone	11.35	43	4032	0.92	ug\L	#	86
54)	Dibromochloromethane	11.57	129	13062	0.82	ug\L		100
55)	1,2-Dibromoethane	11.71	107	10514	0.95	ug\L	#	97
56)	Chlorobenzene	12.38	112	78538	1.03	ug\L		95
57)	1,1,1,2-Tetrachloroethane	12.50	131	20843	0.94	ug\L		90
58)	Ethylbenzene	12.50	91	149763	1.03	ug\L		97
59)	total-Xylene	12.67	106	159811m	3.20	ug\L		
60)	Styrene	13.26	104	68636	0.96	ug\L		98
62)	Bromoform	13.57	173	5771	0.90	ug\L		98
63)	Isopropylbenzene	13.72	105	151170	1.04	ug\L		99
64)	cis-1,4-dichloro-2-Butene	13.89	75	1994	2.16	ug\L	#	77
65)	trans-1,4-dichloro-2-Buten	14.29	75	12070	0.94	ug\L	#	73
67)	Bromobenzene	14.19	156	22294	0.94	ug\L		99
68)	1,1,2,2-Tetrachloroethane	14.23	83	11101	0.99	ug\L		98
69)	1,2,3-Trichloropropane	14.29	75	12070	0.94	ug\L	#	100
70)	n-Propylbenzene	14.29	91	177949	1.00	ug\L		99
71)	2-Chlorotoluene	14.43	91	96457	0.98	ug\L		97
72)	4-Chlorotoluene	14.59	91	94975	0.91	ug\L		93
73)	1,3,5-Trimethylbenzene	14.54	105	116550	1.00	ug\L		99
74)	Pentachloroethane	15.06	167	13070	0.91	ug\L	#	93
75)	tert-Butylbenzene	14.99	119	104358	1.06	ug\L		99
76)	1,2,4-Trimethylbenzene	15.06	105	109008	0.99	ug\L		98
77)	sec-Butylbenzene	15.29	105	152530	1.04	ug\L		99
78)	1,3-Dichlorobenzene	15.48	146	50713	1.07	ug\L		97

(#) = qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\040201\C19207.D Vial: 3
Acq On : 04/02/01 20:57 Operator: JP/VRR
Sample : ICV 1 ppb (V01034,V01028) Inst : VOA-C
Misc : WATER 25ml DF=1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 2 21:39 2001 Quant Results File: 04020125.RES

Quant Method : c:\hpchem\1\data\040201\04020125.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Wed Feb 28 13:34:37 2001
Response via : Initial Calibration
DataAcq Meth : 04020125

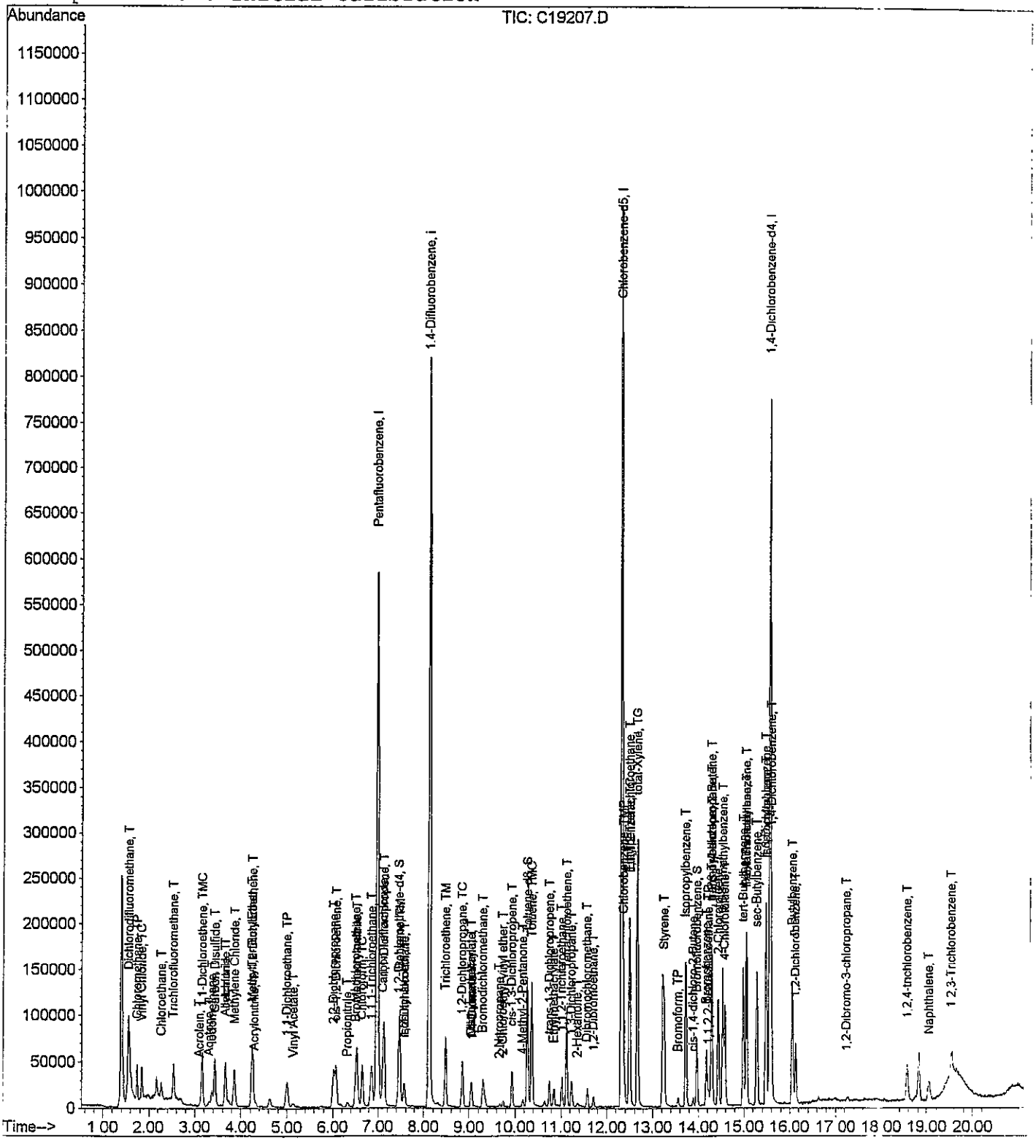
	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
79)	Isopropyltoluene	15.49	119	115645	1.02 ug\L		97
80)	1,4-Dichlorobenzene	15.60	146	49474	1.07 ug\L		94
81)	1,2-Dichlorobenzene	16.13	146	37748	1.05 ug\L		97
82)	n-Butylbenzene	16.06	91	110239	1.00 ug\L		99
83)	1,2-Dibromo-3-chloropropan	17.25	75	1787	1.43 ug\L	#	34
84)	1,2,4-trichlorobenzene	18.58	180	21441	1.12 ug\L		100
86)	Naphthalene	19.06	128	34426	1.49 ug\L		100
87)	1,2,3-Trichlorobenzene	19.55	180	15416	1.18 ug\L		100

(#) = qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\040201\C19207.D
Acq On : 04/02/01 20:57
Sample : ICV 1 ppb (V01034,V01028)
Misc : WATER 25ml DF=1
MS Integration Params: rteint.p
Quant Time: Apr 2 21:39 2001

Vial: 3
Operator: JP/VRR
Inst : VOA-C
Multiplr: 1.00
Quant Results File: 04020125.RES

Method : C:\HPCHEM\1\DATA\040201\04020125.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Tue Apr 03 07:45:18 2001
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\040201\C19206.D Vial: 2
Acq On : 04/02/01 20:32 Operator: JP/VRR
Sample : ICV 4 ppb (V01034,V01028) Inst : VOA-C
Misc : WATER 25ml DF=1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 2 20:53 2001 Quant Results File: 04020125.RES

Quant Method : c:\hpchem\1\data\040201\04020125.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Wed Feb 28 13:34:37 2001
Response via : Initial Calibration
DataAcq Meth : 04020125

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Pentafluorobenzene	6.98	168	585647	10.00	ug\L		0.00
45) Chlorobenzene-d5	12.33	117	739689	10.00	ug\L		0.00
61) 1,4-Dichlorobenzene-d4	15.58	152	294699	10.00	ug\L		0.01
88) 1.4-Difluorobenzene	8.12	116	1443	10.00	ug\L		0.02
System Monitoring Compounds							
32) 1,2-Dichloroethane-d4	7.46	65	78640	3.34	ug\L		0.02
Spiked Amount 10.000	Range 80 - 120		Recovery = 33.40%#				
46) Toluene-d8	10.28	98	452329	3.97	ug\L		0.01
Spiked Amount 10.000	Range 87 - 104		Recovery = 39.70%#				
66) Bromofluorobenzene	13.98	95	129683	3.60	ug\L		0.01
Spiked Amount 10.000	Range 84 - 110		Recovery = 36.00%#				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.56	85	144628	2.87	ug\L		98
3) Chloromethane	1.75	50	116758	3.33	ug\L		99
4) Vinyl Chloride	1.85	62	106765	3.49	ug\L		98
5) Bromomethane	2.17	94	31560	3.50	ug\L		96
6) Chloroethane	2.27	64	47677	3.06	ug\L		91
7) Trichlorofluoromethane	2.54	101	136689	2.89	ug\L	#	100
8) Acrolein	3.11	56	8641	18.85	ug\L	#	90
9) Acrylonitrile	4.32	53	17083	7.57	ug\L		95
10) 1,1-Dichloroethene	3.16	96	100909	3.66	ug\L		94
11) Acetone	3.31	58	3986	3.62	ug\L		92
12) Iodomethane	3.37	142	120366	3.30	ug\L		95
13) Allylchloride	3.66	39	133003	3.39	ug\L		89
14) Carbon Disulfide	3.44	76	359002	3.90	ug\L		99
15) Acetonitrile	3.66	41	159161	30.62	ug\L		89
16) Methylene Chloride	3.87	86	53489	3.60	ug\L		98
17) trans-1,2-Dichloroethene	4.26	96	103853	3.66	ug\L		97
18) MethylTertButylEther	4.26	73	105191	3.29	ug\L		96
19) 1,1-Dichloroethane	5.02	63	164448	3.32	ug\L		99
20) Vinyl Acetate	5.14	43	46044	3.68	ug\L	#	89
21) 2,2-Dichloropropane	6.03	77	165915	3.48	ug\L		99
22) cis-1,2-Dichloroethene	6.08	96	97986	3.60	ug\L		96
23) 2-Butanone	6.18	72	2990	4.19	ug\L	#	97
24) Propionitrile	6.33	54	26986	34.16	ug\L	#	95
25) Methacrylonitrile	6.53	41	165453	33.84	ug\L		99
26) Bromochloromethane	6.50	128	32056	3.72	ug\L		94
27) Chloroform	6.66	83	179217	3.42	ug\L		99
28) 1,1,1-Trichloroethane	6.86	97	173286	3.29	ug\L		100
29) Carbon Tetrachloride	7.11	119	140268	3.16	ug\L		98

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\040201\C19206.D Vial: 2
Acq On : 04/02/01 20:32 Operator: JP/VRR
Sample : ICV 4 ppb (V01034,V01028) Inst : VOA-C
Misc : WATER 25ml DF=1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 2 20:53 2001 Quant Results File: 04020125.RES

Quant Method : c:\hpchem\1\data\040201\04020125.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Wed Feb 28 13:34:37 2001
Response via : Initial Calibration
DataAcq Meth : 04020125

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
30)	1,4-Dioxane	9.13	88	4532	101.55	ug\L	#	90
31)	1,1-Dichloropropene	7.13	77	50667	3.54	ug\L		100
33)	Benzene	7.48	78	385431	3.54	ug\L		100
34)	Isobutyl alcohol	7.58	43	15184	58.19	ug\L	#	32
35)	1,2-Dichloroethane	7.58	62	80499	3.19	ug\L		99
36)	Trichloroethene	8.49	95	118101	3.49	ug\L		98
37)	1,2-Dichloropropane	8.85	63	83800	3.54	ug\L		100
38)	Dibromomethane	9.05	93	29271	3.27	ug\L		95
39)	Methylmethacrylate	9.06	69	20071	3.33	ug\L		97
40)	Bromodichloromethane	9.32	83	100097	3.14	ug\L		99
41)	2-Nitropropane	9.67	43	6044	3.31	ug\L		97
42)	2-Chloroethyl-vinyl ether	9.75	63	14106	3.20	ug\L		95
43)	cis-1,3-Dichloropropene	9.94	75	105915	3.36	ug\L		96
44)	4-Methyl-2-Pentanone	10.17	85	4051	3.45	ug\L	#	94
47)	Toluene	10.37	92	258048	3.66	ug\L		98
48)	trans-1,3-Dichloropropene	10.76	75	70344	3.23	ug\L		98
49)	Ethylmethacrylate	10.86	69	47570	3.41	ug\L		94
50)	1,1,2-Trichloroethane	11.02	83	34962	3.52	ug\L		99
51)	Tetrachloroethene	11.13	164	98723	3.74	ug\L		98
52)	1,3-Dichloropropane	11.25	76	78931	3.58	ug\L		98
53)	2-Hexanone	11.36	43	15081	3.55	ug\L		98
54)	Dibromochloromethane	11.58	129	50044	3.23	ug\L		98
55)	1,2-Dibromoethane	11.71	107	37022	3.45	ug\L		99
56)	Chlorobenzene	12.37	112	260513	3.52	ug\L		99
57)	1,1,1,2-Tetrachloroethane	12.50	131	75609	3.51	ug\L		97
58)	Ethylbenzene	12.50	91	515787	3.65	ug\L		98
59)	total-Xylene	12.67	106	546948m	11.26	ug\L		
60)	Styrene	13.26	104	246839	3.55	ug\L		97
62)	Bromoform	13.57	173	20686	3.24	ug\L		96
63)	Isopropylbenzene	13.72	105	523726	3.62	ug\L		99
64)	cis-1,4-dichloro-2-Butene	13.90	75	8820	4.07	ug\L	#	94
65)	trans-1,4-dichloro-2-Buten	14.28	75	45058	3.52	ug\L	#	1
67)	Bromobenzene	14.18	156	81909	3.49	ug\L		94
68)	1,1,2,2-Tetrachloroethane	14.24	83	39763	3.59	ug\L		99
69)	1,2,3-Trichloropropane	14.28	75	45058	3.52	ug\L	#	100
70)	n-Propylbenzene	14.30	91	628611	3.58	ug\L		100
71)	2-Chlorotoluene	14.44	91	345270	3.53	ug\L		97
72)	4-Chlorotoluene	14.59	91	339177	3.28	ug\L		94
73)	1,3,5-Trimethylbenzene	14.54	105	412713	3.56	ug\L		99
74)	Pentachloroethane	15.06	167	50007	3.50	ug\L		98
75)	tert-Butylbenzene	14.99	119	349246	3.57	ug\L		98
76)	1,2,4-Trimethylbenzene	15.07	105	385332	3.52	ug\L		96

(#) = qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\040201\C19206.D Vial: 2
Acq On : 04/02/01 20:32 Operator: JP/VRR
Sample : ICV 4 ppb (V01034,V01028) Inst : VOA-C
Misc : WATER 25ml DF=1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 2 20:53 2001 Quant Results File: C4020125.RES

Quant Method : c:\hpchem\1\data\040201\04020125.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Wed Feb 28 13:34:37 2001
Response via : Initial Calibration
DataAcq Meth : 04020125

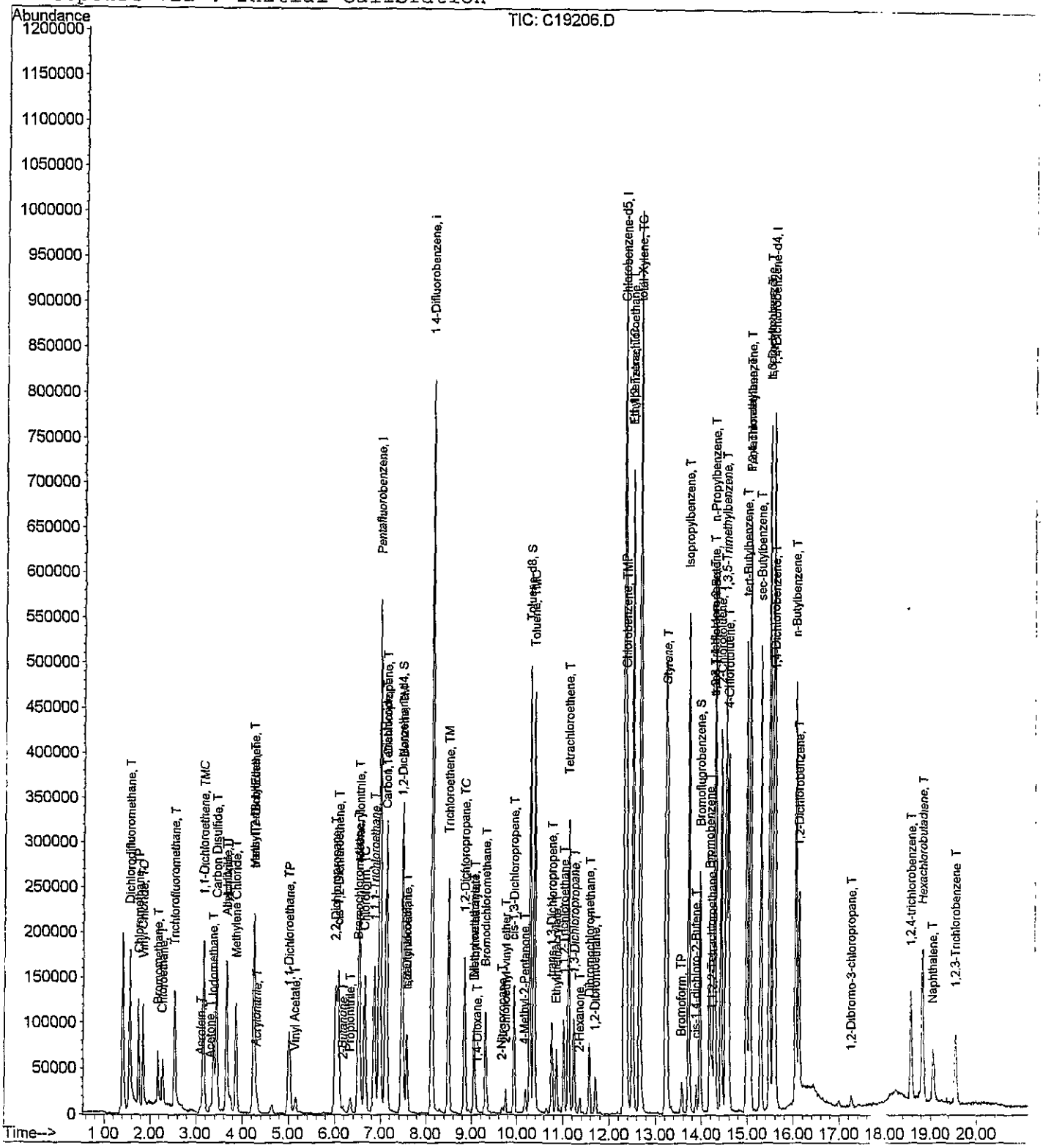
	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
77)	sec-Butylbenzene	15.29	105	524349	3.60 ug\L	100
78)	1,3-Dichlorobenzene	15.48	146	174484	3.70 ug\L	97
79)	Isopropyltoluene	15.49	119	400142	3.56 ug\L	97
80)	1,4-Dichlorobenzene	15.61	146	165902	3.62 ug\L	99
81)	1,2-Dichlorobenzene	16.13	146	134254	3.78 ug\L	96
82)	n-Butylbenzene	16.06	91	370031	3.38 ug\L	99
83)	1,2-Dibromo-3-chloropropan	17.27	75	4727	3.80 ug\L	97
84)	1,2,4-trichlorobenzene	18.58	180	72001	3.80 ug\L	100
85)	Hexachlorobutadiene	18.82	225	60664	3.54 ug\L	100
86)	Naphthalene	19.06	128	92890	4.06 ug\L	100
87)	1,2,3-Trichlorobenzene	19.55	180	49230	3.81 ug\L	98

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\040201\C19206.D Vial: 2
Acq On : 04/02/01 20:32 Operator: JP/VRR
Sample : ICV 4 ppb (V01034,V01028) Inst : VOA-C
Misc : WATER 25ml DF=1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 2 20:53 2001 Quant Results File: 04020125.RES

Method : C:\HPCHEM\1\DATA\040201\04020125.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Tue Apr 03 07:45:18 2001
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\040201\C19205.D Vial: 1
Acq On : 04/02/01 20:06 Operator: JP/VRR
Sample : ICV 10 ppb (V01034,V01028) Inst : VOA-C
Misc : WATER 25ml DF=1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 2 20:28 2001 Quant Results File: 04020125.RES

Quant Method : c:\hpchem\1\data\040201\04020125.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Wed Feb 28 13:34:37 2001
Response via : Initial Calibration
DataAcq Meth : 04020125

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Pentafluorobenzene	6.97	168	598559	10.00	ug\L		0.00
45) Chlorobenzene-d5	12.33	117	777927	10.00	ug\L		0.01
61) 1,4-Dichlorobenzene-d4	15.58	152	317075	10.00	ug\L		0.02
88) 1.4-Difluorobenzene	8.12	116	1433	10.00	ug\L		0.02
System Monitoring Compounds							
32) 1,2-Dichloroethane-d4	7.45	65	201603	8.38	ug\L		0.01
Spiked Amount 10.000	Range 80 - 120		Recovery = 83.80%				
46) Toluene-d8	10.27	98	1146126	9.57	ug\L		0.01
Spiked Amount 10.000	Range 87 - 104		Recovery = 95.70%				
66) Bromofluorobenzene	13.97	95	344280	8.88	ug\L		0.01
Spiked Amount 10.000	Range 84 - 110		Recovery = 88.80%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.55	85	383207	7.44	ug\L		100
3) Chloromethane	1.75	50	319544	8.92	ug\L		99
4) Vinyl Chloride	1.85	62	303532	9.72	ug\L		99
5) Bromomethane	2.17	94	75519	9.46	ug\L		93
6) Chloroethane	2.28	64	139619	8.76	ug\L		91
7) Trichlorofluoromethane	2.53	101	383974	7.95	ug\L	#	100
8) Acrolein	3.10	56	22692	48.44	ug\L	#	93
9) Acrylonitrile	4.31	53	42785	18.55	ug\L		94
10) 1,1-Dichloroethene	3.16	96	271165	9.62	ug\L		92
11) Acetone	3.31	58	7530	9.66	ug\L		98
12) Iodomethane	3.37	142	350323	9.39	ug\L		95
13) Allylchloride	3.66	39	354303	8.84	ug\L		91
14) Carbon Disulfide	3.44	76	948898	10.08	ug\L		99
15) Acetonitrile	3.66	41	437705	82.40	ug\L		92
16) Methylene Chloride	3.86	86	140181	9.24	ug\L		98
17) trans-1,2-Dichloroethene	4.25	96	276168	9.51	ug\L		96
18) MethylTertButylEther	4.24	73	274531	8.40	ug\L		97
19) 1,1-Dichloroethane	5.00	63	445871	8.80	ug\L		100
20) Vinyl Acetate	5.13	43	117263	9.18	ug\L		99
21) 2,2-Dichloropropane	6.01	77	443207	9.10	ug\L		98
22) cis-1,2-Dichloroethene	6.07	96	261725	9.41	ug\L		94
23) 2-Butanone	6.17	72	6481	9.59	ug\L	#	97
24) Propionitrile	6.33	54	68967	85.42	ug\L	#	98
25) Methacrylonitrile	6.53	41	439556	87.96	ug\L		98
26) Bromochloromethane	6.50	128	82984	9.42	ug\L		96
27) Chloroform	6.65	83	461924	8.62	ug\L		99
28) 1,1,1-Trichloroethane	6.86	97	461273	8.57	ug\L		100
29) Carbon Tetrachloride	7.11	119	380665	8.40	ug\L		99

(#) = qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\040201\C19205.D Vial: 1
Acq On : 04/02/01 20:06 Operator: JP/VRR
Sample : ICV 10 ppb (V01034,V01028) Inst : VOA-C
Misc : WATER 25ml DF=1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 2 20:28 2001 Quant Results File: 04020125.RES

Quant Method : c:\hpchem\1\data\040201\04020125.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Wed Feb 28 13:34:37 2001
Response via : Initial Calibration
DataAcq Meth : 04020125

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
30) 1,4-Dioxane	9.12	88	10407	191.34 ug\L #	93
31) 1,1-Dichloropropene	7.13	77	134447	9.20 ug\L	98
33) Benzene	7.47	78	999644	8.98 ug\L	100
34) Isobutyl alcohol	7.58	43	35004	143.35 ug\L	84
35) 1,2-Dichloroethane	7.57	62	214724	8.32 ug\L	98
36) Trichloroethene	8.49	95	307655	8.89 ug\L	96
37) 1,2-Dichloropropane	8.86	63	213496	8.82 ug\L	99
38) Dibromomethane	9.05	93	80205	8.76 ug\L	96
39) Methylmethacrylate	9.05	69	55671	9.05 ug\L	95
40) Bromodichloromethane	9.31	83	275468	8.45 ug\L	100
41) 2-Nitropropane	9.68	43	16313	8.75 ug\L	97
42) 2-Chloroethyl-vinyl ether	9.75	63	42105	9.35 ug\L	99
43) cis-1,3-Dichloropropene	9.94	75	292995	9.10 ug\L	97
44) 4-Methyl-2-Pentanone	10.17	85	11460	9.55 ug\L #	86
47) Toluene	10.38	92	678344	9.15 ug\L	99
48) trans-1,3-Dichloropropene	10.76	75	204111	8.90 ug\L	97
49) Ethylmethacrylate	10.86	69	129604	8.84 ug\L	97
50) 1,1,2-Trichloroethane	11.02	83	92587	8.86 ug\L	99
51) Tetrachloroethene	11.13	164	265001	9.55 ug\L	97
52) 1,3-Dichloropropane	11.24	76	205534	8.88 ug\L	98
53) 2-Hexanone	11.36	43	38990	8.72 ug\L	97
54) Dibromochloromethane	11.57	129	141475	8.69 ug\L	100
55) 1,2-Dibromoethane	11.71	107	102886	9.11 ug\L	100
56) Chlorobenzene	12.37	112	700678	9.00 ug\L	99
57) 1,1,1,2-Tetrachloroethane	12.50	131	216428	9.55 ug\L	98
58) Ethylbenzene	12.51	91	1383814	9.30 ug\L	99
59) total-Xylene	12.67	106	1478209m	28.94 ug\L	
60) Styrene	13.26	104	706210	9.65 ug\L	96
62) Bromoform	13.57	173	61229	8.92 ug\L	98
63) Isopropylbenzene	13.73	105	1442247	9.26 ug\L	99
64) cis-1,4-dichloro-2-Butene	13.90	75	27067	8.62 ug\L #	95
65) trans-1,4-dichloro-2-Buten	14.29	75	120193	8.73 ug\L #	70
67) Bromobenzene	14.18	156	223572	8.85 ug\L	91
68) 1,1,2,2-Tetrachloroethane	14.23	83	104805	8.80 ug\L	99
69) 1,2,3-Trichloropropane	14.29	75	120193	8.73 ug\L #	100
70) n-Propylbenzene	14.30	91	1742140	9.21 ug\L	100
71) 2-Chlorotoluene	14.44	91	930746	8.85 ug\L	97
72) 4-Chlorotoluene	14.59	91	1024688	9.21 ug\L	99
73) 1,3,5-Trimethylbenzene	14.54	105	1120438	8.98 ug\L	98
74) Pentachloroethane	15.06	167	138875	9.02 ug\L	98
75) tert-Butylbenzene	14.99	119	970483	9.23 ug\L	98
76) 1,2,4-Trimethylbenzene	15.06	105	1084953	9.22 ug\L	98

(#) = qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\040201\C19205.D Vial: 1
Acq On : 04/02/01 20:06 Operator: JP/VRR
Sample : ICV 10 ppb (V01034,V01028) Inst : VOA-C
Misc : WATER 25ml DF=1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 2 20:28 2001 Quant Results File: 04020125.RES

Quant Method : c:\hpchem\1\data\040201\04020125.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Wed Feb 28 13:34:37 2001
Response via : Initial Calibration
DataAcq Meth : 04020125

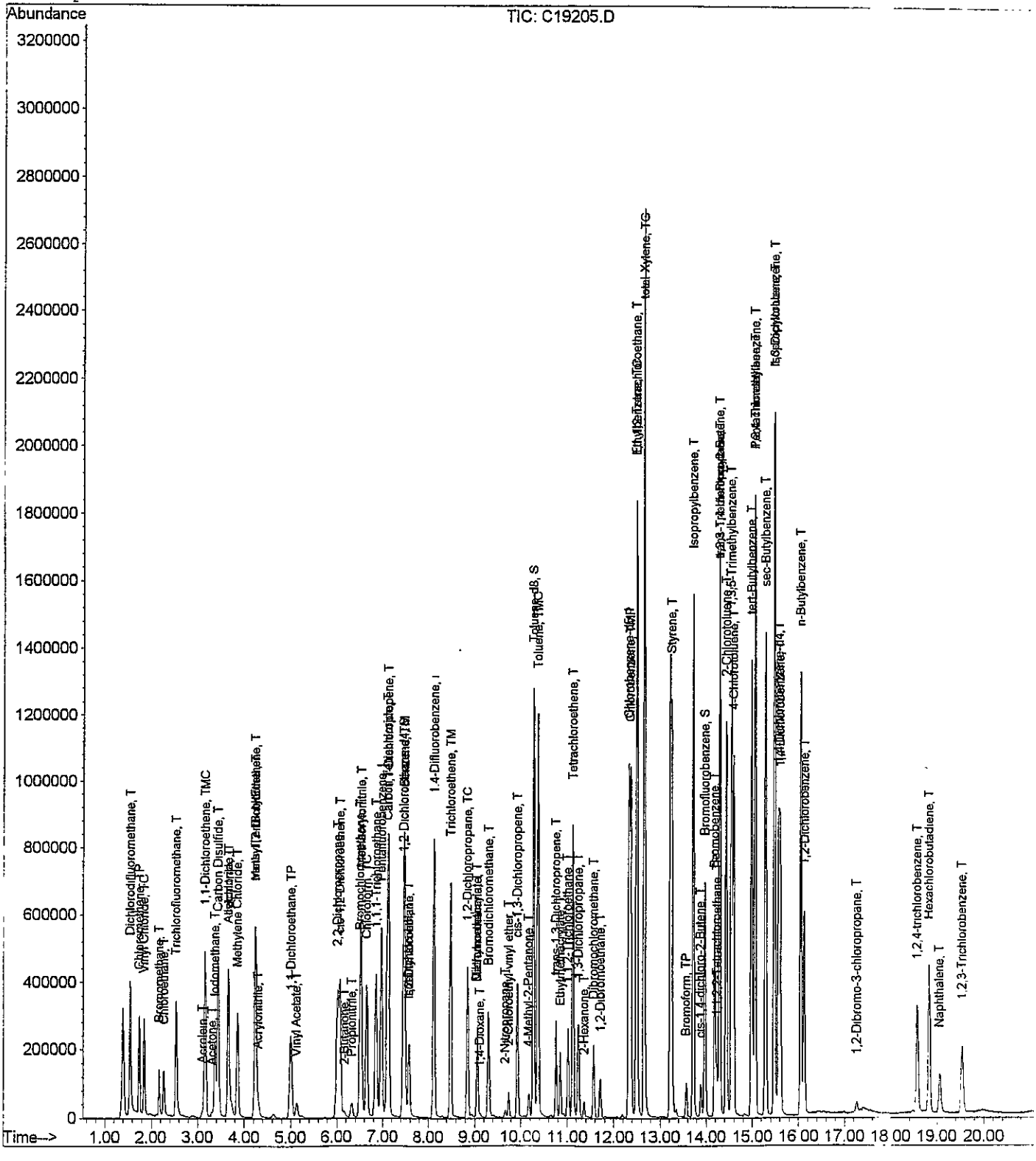
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
77)	sec-Butylbenzene	15.29	105	1447012	9.22	ug\L	99
78)	1,3-Dichlorobenzene	15.48	146	478350	9.42	ug\L	97
79)	Isopropyltoluene	15.49	119	1135322	9.39	ug\L	99
80)	1,4-Dichlorobenzene	15.61	146	456342	9.25	ug\L	97
81)	1,2-Dichlorobenzene	16.13	146	357961	9.36	ug\L	98
82)	n-Butylbenzene	16.05	91	1068125	9.08	ug\L	99
83)	1,2-Dibromo-3-chloropropan	17.27	75	14118	10.56	ug\L	90
84)	1,2,4-trichlorobenzene	18.58	180	185319	9.10	ug\L	100
85)	Hexachlorobutadiene	18.83	225	153545	10.44	ug\L	100
86)	Naphthalene	19.07	128	192076	7.80	ug\L	100
87)	1,2,3-Trichlorobenzene	19.55	180	129096	9.29	ug\L	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\040201\C19205.D Vial: 1
Acq On : 04/02/01 20:06 Operator: JP/VRR
Sample : ICV 10 ppb (V01034,V01028) Inst : VOA-C
Misc : WATER 25ml DF=1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 2 20:28 2001 Quant Results File: 04020125.RES

Method : C:\HPCHEM\1\DATA\040201\04020125.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Tue Apr 03 07:45:18 2001
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\040201\C19208.D Vial: 4
Acq On : 04/02/01 21:23 Operator: JP/VRR
Sample : ICV 20 ppb (V01034,V01028) Inst : VOA-C
Misc : WATER 25ml DF=1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 2 21:45 2001 Quant Results File: 04020125.RES

Quant Method : c:\hpchem\1\data\040201\04020125.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Mon Apr 02 21:42:29 2001
Response via : Initial Calibration
DataAcq Meth : 04020125

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Pentafluorobenzene	6.97	168	646759	10.00	ug\L		0.00
45) Chlorobenzene-d5	12.33	117	848648	10.00	ug\L		0.00
61) 1,4-Dichlorobenzene-d4	15.57	152	346240	10.00	ug\L		-0.01
88) 1.4-Difluorobenzene	8.11	116	1628	10.00	ug\L		-0.01
System Monitoring Compounds							
32) 1,2-Dichloroethane-d4	7.45	65	444276	19.65	ug\L		0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 196.50%#				
46) Toluene-d8	10.27	98	2431760	18.44	ug\L		0.00
Spiked Amount 10.000	Range 87 - 104		Recovery = 184.40%#				
66) Bromofluorobenzene	13.97	95	747642	19.76	ug\L		0.00
Spiked Amount 10.000	Range 84 - 110		Recovery = 197.60%#				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.55	85	803097	18.98	ug\L		100
3) Chloromethane	1.75	50	636113	17.79	ug\L		99
4) Vinyl Chloride	1.84	62	587405	18.33	ug\L		100
5) Bromomethane	2.17	94	137691	15.42	ug\L		98
6) Chloroethane	2.27	64	255975	17.51	ug\L		99
7) Trichlorofluoromethane	2.54	101	763948	18.66	ug\L	#	100
8) Acrolein	3.10	56	51610	43.32	ug\L	#	99
9) Acrylonitrile	4.31	53	104391	40.97	ug\L		93
10) 1,1-Dichloroethene	3.15	96	557431	18.77	ug\L		96
11) Acetone	3.32	58	15285	15.97	ug\L		96
12) Iodomethane	3.38	142	824304	24.52	ug\L		99
13) Allylchloride	3.66	39	754386	19.53	ug\L		99
14) Carbon Disulfide	3.44	76	2000921	19.37	ug\L		99
15) Acetonitrile	3.66	41	925613	196.53	ug\L		99
16) Methylene Chloride	3.86	86	297648	17.67	ug\L		99
17) trans-1,2-Dichloroethene	4.25	96	574104	19.20	ug\L		98
18) MethylTertButylEther	4.24	73	617993	19.98	ug\L		98
19) 1,1-Dichloroethane	5.01	63	942254	19.43	ug\L		99
20) Vinyl Acetate	5.13	43	273289	21.40	ug\L		97
21) 2,2-Dichloropropane	6.02	77	863243	17.88	ug\L		100
22) cis-1,2-Dichloroethene	6.08	96	558559	19.49	ug\L		99
23) 2-Butanone	6.17	72	13531	18.75	ug\L	#	97
24) Propionitrile	6.32	54	166737	213.45	ug\L	#	99
25) Methacrylonitrile	6.53	41	1003962	210.94	ug\L		99
26) Bromochloromethane	6.50	128	183810	20.03	ug\L		99
27) Chloroform	6.66	83	1003506	19.35	ug\L		98
28) 1,1,1-Trichloroethane	6.86	97	989899	19.60	ug\L		99
29) Carbon Tetrachloride	7.11	119	812462	19.80	ug\L		100

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\040201\C19208.D Vial: 4
Acq On : 04/02/01 21:23 Operator: JP/VRR
Sample : ICV 20 ppb (V01034,V01028) Inst : VOA-C
Misc : WATER 25ml DF=1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 2 21:45 2001 Quant Results File: 04020125.RES

Quant Method : c:\hpchem\1\data\040201\04020125.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Mon Apr 02 21:42:29 2001
Response via : Initial Calibration
DataAcq Meth : 04020125

Compound	R.T.	QIon	Response	Conc Unit		Qvalue
30) 1,4-Dioxane	9.11	88	26752	662.01 ug\L		94
31) 1,1-Dichloropropene	7.13	77	284838	19.03 ug\L		98
33) Benzene	7.47	78	2177662	19.11 ug\L		100
34) Isobutyl alcohol	7.58	43	87588	405.68 ug\L		97
35) 1,2-Dichloroethane	7.57	62	479165	19.97 ug\L		99
36) Trichloroethene	8.49	95	689288	20.10 ug\L		97
37) 1,2-Dichloropropane	8.85	63	484293	20.13 ug\L		98
38) Dibromomethane	9.05	93	182612	21.09 ug\L		98
39) Methylmethacrylate	9.06	69	131090	22.17 ug\L		99
40) Bromodichloromethane	9.31	83	628740	21.56 ug\L		100
41) 2-Nitropropane	9.67	43	40599	21.87 ug\L		96
42) 2-Chloroethyl-vinyl ether	9.75	63	106635	25.11 ug\L		99
43) cis-1,3-Dichloropropene	9.94	75	672289	22.33 ug\L		99
44) 4-Methyl-2-Pentanone	10.18	85	26558	22.09 ug\L	#	90
47) Toluene	10.37	92	1462992	18.74 ug\L		99
48) trans-1,3-Dichloropropene	10.76	75	477915	22.41 ug\L		99
49) Ethylmethacrylate	10.86	69	318043	22.61 ug\L		99
50) 1,1,2-Trichloroethane	11.02	83	216238	20.89 ug\L		99
51) Tetrachloroethene	11.13	164	563600	18.52 ug\L		98
52) 1,3-Dichloropropane	11.24	76	476224	20.38 ug\L		98
53) 2-Hexanone	11.36	43	97928	22.47 ug\L		98
54) Dibromochloromethane	11.57	129	337723	22.85 ug\L		99
55) 1,2-Dibromoethane	11.71	107	236295	21.12 ug\L		98
56) Chlorobenzene	12.37	112	1517495	19.07 ug\L		99
57) 1,1,1,2-Tetrachloroethane	12.49	131	457754	20.04 ug\L		99
58) Ethylbenzene	12.50	91	2864488	18.45 ug\L		99
59) total-Xylene	12.67	106	3084760m	55.95 ug\L		
60) Styrene	13.26	104	1517412	20.29 ug\L		99
62) Bromoform	13.56	173	147630	22.73 ug\L		97
63) Isopropylbenzene	13.73	105	2966533	18.26 ug\L		99
64) cis-1,4-dichloro-2-Butene	13.89	75	66806	25.47 ug\L	#	91
65) trans-1,4-dichloro-2-Buten	14.28	75	269381	19.99 ug\L		98
67) Bromobenzene	14.18	156	492368	19.84 ug\L		100
68) 1,1,2,2-Tetrachloroethane	14.23	83	244278	20.32 ug\L		97
69) 1,2,3-Trichloropropane	14.28	75	269381	19.99 ug\L		98
70) n-Propylbenzene	14.30	91	3563148	18.36 ug\L		99
71) 2-Chlorotoluene	14.44	91	1960097	18.64 ug\L		99
72) 4-Chlorotoluene	14.59	91	2152351	20.04 ug\L		100
73) 1,3,5-Trimethylbenzene	14.54	105	2319667	18.34 ug\L		100
74) Pentachloroethane	15.06	167	301205	20.04 ug\L		99
75) tert-Butylbenzene	14.98	119	2009856	18.26 ug\L		99
76) 1,2,4-Trimethylbenzene	15.06	105	2215032	18.53 ug\L		100

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\040201\C19208.D Vial: 4
Acq On : 04/02/01 21:23 Operator: JP/VRR
Sample : ICV 20 ppb (V01034,V01028) Inst : VOA-C
Misc : WATER 25ml DF=1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 2 21:45 2001 Quant Results File: 04020125.RES

Quant Method : c:\hpchem\1\data\040201\04020125.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Mon Apr 02 21:42:29 2001
Response via : Initial Calibration
DataAcq Meth : 04020125

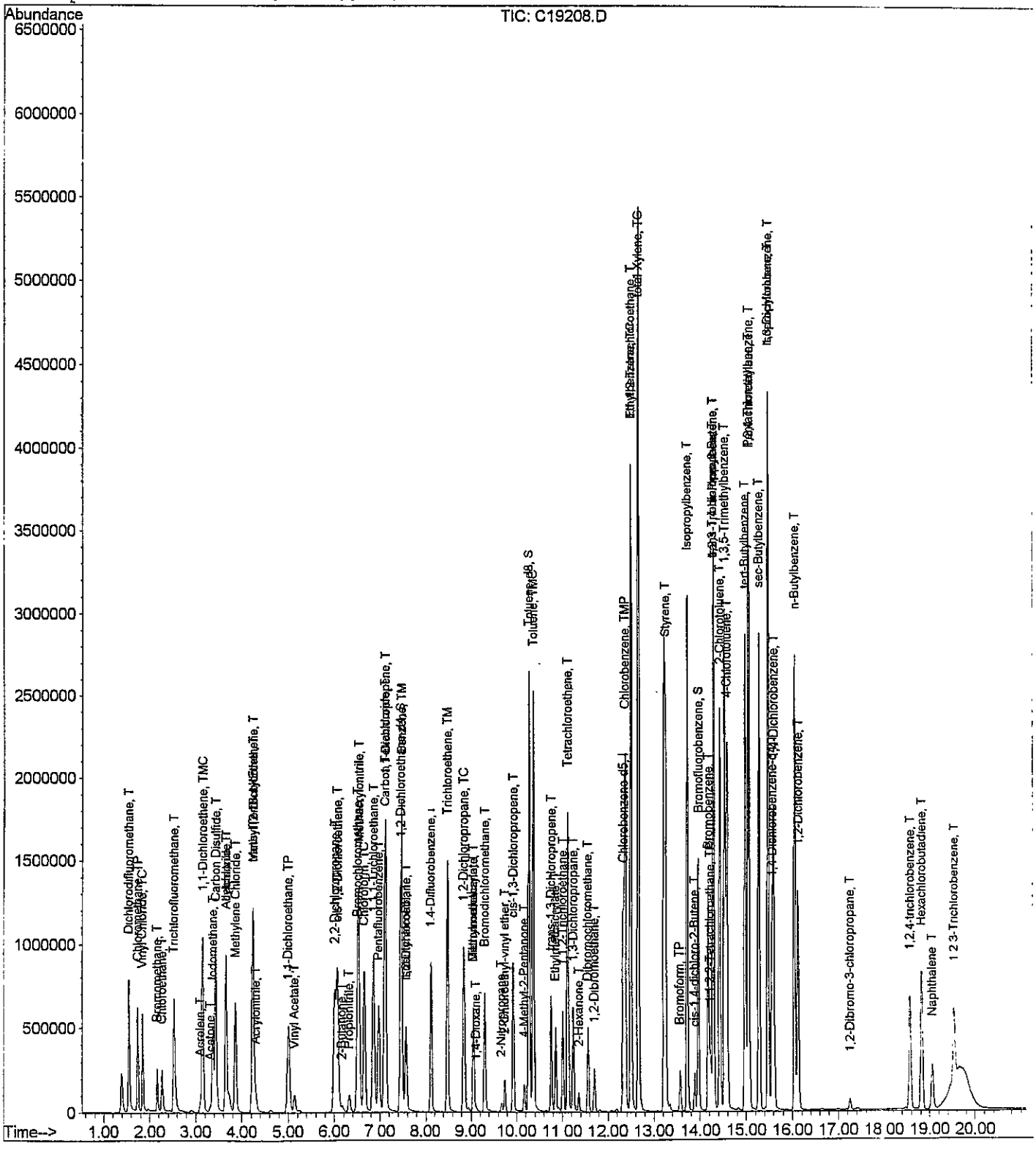
	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
77)	sec-Butylbenzene	15.28	105	2956173	18.11 ug\L		100
78)	1,3-Dichlorobenzene	15.48	146	1009456	18.63 ug\L		100
79)	Isopropyltoluene	15.48	119	2305931	18.39 ug\L		99
80)	1,4-Dichlorobenzene	15.60	146	987708	18.97 ug\L		99
81)	1,2-Dichlorobenzene	16.13	146	786770	19.27 ug\L		99
82)	n-Butylbenzene	16.05	91	2215847	18.79 ug\L		99
83)	1,2-Dibromo-3-chloropropan	17.26	75	26419	15.81 ug\L	#	82
84)	1,2,4-trichlorobenzene	18.57	180	399113	18.04 ug\L		100
85)	Hexachlorobutadiene	18.83	225	294460	15.82 ug\L		100
86)	Naphthalene	19.06	128	438604	14.89 ug\L		100
87)	1,2,3-Trichlorobenzene	19.54	180	267755	17.27 ug\L		98

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\040201\C19208.D Vial: 4
Acq On : 04/02/01 21:23 Operator: JP/VRR
Sample : ICV 20 ppb (V01034,V01028) Inst : VOA-C
Misc : WATER 25ml DF=1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 2 21:45 2001 Quant Results File: 04020125.RES

Method : C:\HPCHEM\1\DATA\040201\04020125.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Tue Apr 03 07:45:18 2001
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\040201\C19209.D Vial: 5
Acq On : 04/02/01 21:49 Operator: JP/VRR
Sample : ICV 30 ppb (V01034,V01028) Inst : VOA-C
Misc : WATER 25ml DF=1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 2 22:10 2001 Quant Results File: 04020125.RES

Quant Method : c:\hpchem\1\data\040201\04020125.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Mon Apr 02 21:42:29 2001
Response via : Initial Calibration
DataAcq Meth : 04020125

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Pentafluorobenzene	6.98	168	655145	10.00	ug\L		0.00
45) Chlorobenzene-d5	12.33	117	877625	10.00	ug\L		0.00
61) 1,4-Dichlorobenzene-d4	15.57	152	354937	10.00	ug\L		-0.01
88) 1.4-Difluorobenzene	8.12	116	1845	10.00	ug\L		0.00
System Monitoring Compounds							
32) 1,2-Dichloroethane-d4	7.45	65	675753	29.51	ug\L		0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 295.10%#				
46) Toluene-d8	10.27	98	3759655	27.57	ug\L		0.00
Spiked Amount 10.000	Range 87 - 104		Recovery = 275.70%#				
66) Bromofluorobenzene	13.97	95	1152098	29.70	ug\L		0.00
Spiked Amount 10.000	Range 84 - 110		Recovery = 297.00%#				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.55	85	1180009	27.53	ug\L		100
3) Chloromethane	1.75	50	951588	26.27	ug\L		99
4) Vinyl Chloride	1.84	62	883819	27.22	ug\L		99
5) Bromomethane	2.17	94	212967	23.55	ug\L		98
6) Chloroethane	2.27	64	393578	26.57	ug\L		98
7) Trichlorofluoromethane	2.54	101	1141540	27.52	ug\L	#	100
8) Acrolein	3.09	56	81974	67.93	ug\L	#	96
9) Acrylonitrile	4.31	53	153529	59.48	ug\L		98
10) 1,1-Dichloroethene	3.16	96	841300	27.96	ug\L		98
11) Acetone	3.32	58	23842	24.59	ug\L		99
12) Iodomethane	3.38	142	1331858	39.11	ug\L		99
13) Allylchloride	3.66	39	1147994	29.34	ug\L		100
14) Carbon Disulfide	3.44	76	3194628	30.52	ug\L		100
15) Acetonitrile	3.66	41	1417499	297.11	ug\L		100
16) Methylene Chloride	3.87	86	448625	26.29	ug\L		99
17) trans-1,2-Dichloroethene	4.24	96	878928	29.02	ug\L		98
18) MethylTertButylEther	4.25	73	939912	29.99	ug\L		100
19) 1,1-Dichloroethane	5.01	63	1485349	30.24	ug\L		100
20) Vinyl Acetate	5.14	43	456932	35.32	ug\L		98
21) 2,2-Dichloropropane	6.02	77	1298374	26.54	ug\L		99
22) cis-1,2-Dichloroethene	6.08	96	876178	30.18	ug\L		99
23) 2-Butanone	6.17	72	22594	30.91	ug\L	#	95
24) Propionitrile	6.32	54	265590	335.64	ug\L	#	98
25) Methacrylonitrile	6.53	41	1544022	320.25	ug\L		98
26) Bromochloromethane	6.50	128	285191	30.68	ug\L		99
27) Chloroform	6.66	83	1568717	29.86	ug\L		99
28) 1,1,1-Trichloroethane	6.86	97	1531118	29.93	ug\L		99
29) Carbon Tetrachloride	7.10	119	1259358	30.30	ug\L		99

(#) = qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\040201\C19209.D Vial: 5
Acq On : 04/02/01 21:49 Operator: JP/VRR
Sample : ICV 30 ppb (V01034,V01028) Inst : VOA-C
Misc : WATER 25ml DF=1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 2 22:10 2001 Quant Results File: 04020125.RES

Quant Method : c:\hpchem\1\data\040201\04020125.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Mon Apr 02 21:42:29 2001
Response via : Initial Calibration
DataAcq Meth : 04020125

	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
30)	1,4-Dioxane	9.11	88	41449	1012.57 ug\L	#	94
31)	1,1-Dichloropropene	7.13	77	438515	28.93 ug\L		98
33)	Benzene	7.47	78	3364166	29.15 ug\L		100
34)	Isobutyl alcohol	7.58	43	139106	636.04 ug\L		98
35)	1,2-Dichloroethane	7.57	62	731018	30.07 ug\L		99
36)	Trichloroethene	8.49	95	1070250	30.81 ug\L		97
37)	1,2-Dichloropropane	8.85	63	768338	31.52 ug\L		98
38)	Dibromomethane	9.05	93	282145	32.17 ug\L		97
39)	Methylmethacrylate	9.05	69	210620	35.17 ug\L		99
40)	Bromodichloromethane	9.31	83	986663	33.40 ug\L		100
41)	2-Nitropropane	9.67	43	66332	35.27 ug\L		99
42)	2-Chloroethyl-vinyl ether	9.75	63	181688	42.24 ug\L		99
43)	cis-1,3-Dichloropropene	9.93	75	1053158	34.53 ug\L		99
44)	4-Methyl-2-Pentanone	10.18	85	47509	39.02 ug\L	#	99
47)	Toluene	10.37	92	2267459	28.09 ug\L		99
48)	trans-1,3-Dichloropropene	10.76	75	763615	34.63 ug\L		99
49)	Ethylmethacrylate	10.86	69	518732	35.66 ug\L		99
50)	1,1,2-Trichloroethane	11.02	83	337932	31.56 ug\L		99
51)	Tetrachloroethene	11.13	164	863043	27.43 ug\L		99
52)	1,3-Dichloropropane	11.24	76	741608	30.69 ug\L		99
53)	2-Hexanone	11.36	43	168153	37.32 ug\L		98
54)	Dibromochloromethane	11.57	129	543656	35.57 ug\L		100
55)	1,2-Dibromoethane	11.71	107	375371	32.45 ug\L		99
56)	Chlorobenzene	12.37	112	2367045	28.77 ug\L		98
57)	1,1,1,2-Tetrachloroethane	12.50	131	712510	30.16 ug\L		99
58)	Ethylbenzene	12.50	91	4376682	27.26 ug\L		99
59)	total-Xylene	12.67	106	4682864m	82.13 ug\L		
60)	Styrene	13.26	104	2347948	30.36 ug\L		99
62)	Bromoform	13.56	173	238476	35.82 ug\L		98
63)	Isopropylbenzene	13.72	105	4529952	27.20 ug\L		99
64)	cis-1,4-dichloro-2-Butene	13.88	75	110272	41.01 ug\L	#	90
65)	trans-1,4-dichloro-2-Buten	14.28	75	428267	31.01 ug\L		96
67)	Bromobenzene	14.18	156	763714	30.02 ug\L		99
68)	1,1,2,2-Tetrachloroethane	14.23	83	380859	30.91 ug\L		98
69)	1,2,3-Trichloropropane	14.28	75	428267	31.01 ug\L		95
70)	n-Propylbenzene	14.30	91	5425335	27.27 ug\L		99
71)	2-Chlorotoluene	14.44	91	3020277	28.02 ug\L		100
72)	4-Chlorotoluene	14.59	91	3316167	30.12 ug\L		99
73)	1,3,5-Trimethylbenzene	14.54	105	3577227	27.60 ug\L		99
74)	Pentachloroethane	15.06	167	463334	30.08 ug\L		98
75)	tert-Butylbenzene	14.98	119	3046878	27.01 ug\L		100
76)	1,2,4-Trimethylbenzene	15.06	105	3369256	27.49 ug\L		99

(#) = qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\040201\C19209.D Vial: 5
Acq On : 04/02/01 21:49 Operator: JP/VRR
Sample : ICV 30 ppb (V01034,V01028) Inst : VOA-C
Misc : WATER 25ml DF=1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 2 22:10 2001 Quant Results File: 04020125.RES

Quant Method : c:\hpchem\1\data\040201\04020125.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Mon Apr 02 21:42:29 2001
Response via : Initial Calibration
DataAcq Meth : 04020125

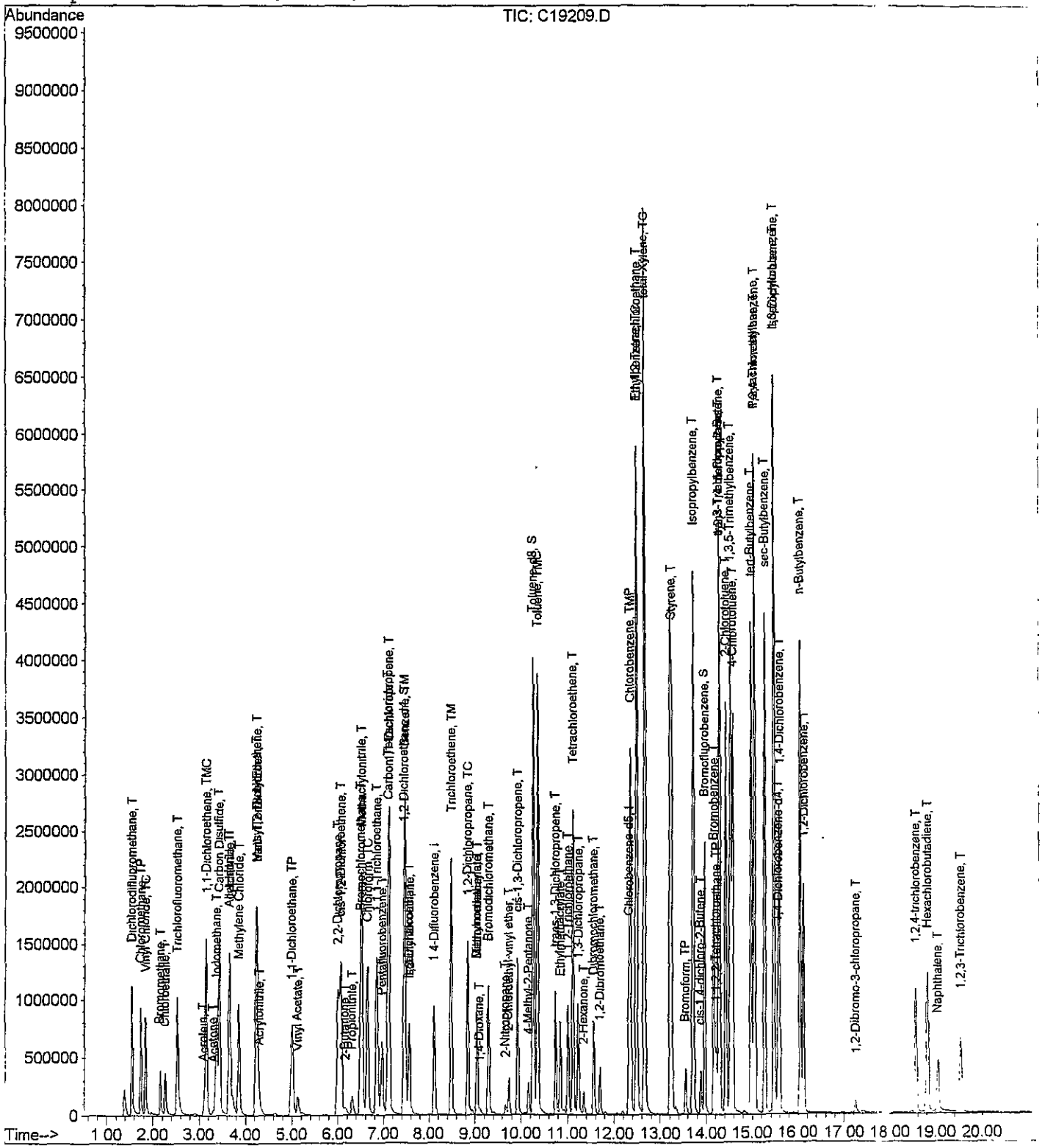
	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
77)	sec-Butylbenzene	15.28	105	4468893	26.70 ug\L		99
78)	1,3-Dichlorobenzene	15.48	146	1522833	27.41 ug\L		100
79)	Isopropyltoluene	15.48	119	3481092	27.08 ug\L		99
80)	1,4-Dichlorobenzene	15.60	146	1520593	28.49 ug\L		99
81)	1,2-Dichlorobenzene	16.13	146	1202895	28.74 ug\L		99
82)	n-Butylbenzene	16.05	91	3408968	28.20 ug\L		100
83)	1,2-Dibromo-3-chloropropan	17.26	75	40271	23.51 ug\L	#	75
84)	1,2,4-trichlorobenzene	18.57	180	633950	27.95 ug\L		100
85)	Hexachlorobutadiene	18.82	225	442594	23.20 ug\L		100
86)	Naphthalene	19.06	128	721873	23.91 ug\L		100
87)	1,2,3-Trichlorobenzene	19.54	180	431596	27.15 ug\L		99

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\040201\C19209.D Vial: 5
Acq On : 04/02/01 21:49 Operator: JP/VRR
Sample : ICV 30 ppb (V01034,V01028) Inst : VOA-C
Misc : WATER 25ml DF=1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 2 22:10 2001 Quant Results File: 04020125.RES

Method : C:\HPCHEM\1\DATA\040201\04020125.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Tue Apr 03 07:45:18 2001
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\040201\C19210.D Vial: 6
Acq On : 04/02/01 22:15 Operator: JP/VRR
Sample : ICV 40 ppb (V01034,V01028) Inst : VOA-C
Misc : WATER 25ml DF=1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 2 22:36 2001 Quant Results File: 04020125.RES

Quant Method : c:\hpchem\1\data\040201\04020125.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Mon Apr 02 21:42:29 2001
Response via : Initial Calibration
DataAcq Meth : 04020125

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Pentafluorobenzene	6.97	168	682071	10.00	ug\L		0.00
45) Chlorobenzene-d5	12.33	117	912172	10.00	ug\L		0.00
61) 1,4-Dichlorobenzene-d4	15.57	152	368431	10.00	ug\L		-0.01
88) 1.4-Difluorobenzene	8.11	116	1910	10.00	ug\L		-0.01
System Monitoring Compounds							
32) 1,2-Dichloroethane-d4	7.45	65	904003	37.92	ug\L		0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 379.20%#				
46) Toluene-d8	10.27	98	5061478	35.71	ug\L		0.00
Spiked Amount 10.000	Range 87 - 104		Recovery = 357.10%#				
66) Bromofluorobenzene	13.97	95	1560584	38.75	ug\L		0.00
Spiked Amount 10.000	Range 84 - 110		Recovery = 387.50%#				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.55	85	1653737	37.06	ug\L		100
3) Chloromethane	1.75	50	1331242	35.30	ug\L		100
4) Vinyl Chloride	1.85	62	1244508	36.82	ug\L		99
5) Bromomethane	2.17	94	299394	31.80	ug\L		98
6) Chloroethane	2.28	64	551387	35.76	ug\L		98
7) Trichlorofluoromethane	2.54	101	1594768	36.93	ug\L	#	100
8) Acrolein	3.09	56	109630	87.26	ug\L	#	97
9) Acrylonitrile	4.31	53	219982	81.86	ug\L		95
10) 1,1-Dichloroethene	3.16	96	1191648	38.04	ug\L		99
11) Acetone	3.32	58	31919	31.62	ug\L		96
12) Iodomethane	3.37	142	1723793	48.62	ug\L		99
13) Allylchloride	3.66	39	1558297	38.26	ug\L		89
14) Carbon Disulfide	3.44	76	4282245	39.30	ug\L		100
15) Acetonitrile	3.66	41	2204753	443.88	ug\L		89
16) Methylene Chloride	3.86	86	629735	35.44	ug\L		99
17) trans-1,2-Dichloroethene	4.25	96	1214937	38.53	ug\L		97
18) MethylTertButylEther	4.24	73	1280994	39.26	ug\L		99
19) 1,1-Dichloroethane	5.01	63	2062971	40.34	ug\L		100
20) Vinyl Acetate	5.13	43	604619	44.89	ug\L		98
21) 2,2-Dichloropropane	6.02	77	1754218	34.45	ug\L		99
22) cis-1,2-Dichloroethene	6.08	96	1207579	39.95	ug\L		99
23) 2-Butanone	6.17	72	28879	37.95	ug\L	#	95
24) Propionitrile	6.32	54	364167	442.06	ug\L	#	98
25) Methacrylonitrile	6.53	41	2104848	419.34	ug\L		98
26) Bromochloromethane	6.50	128	391429	40.44	ug\L		99
27) Chloroform	6.65	83	2176723	39.79	ug\L		97
28) 1,1,1-Trichloroethane	6.86	97	2141859	40.21	ug\L		100
29) Carbon Tetrachloride	7.11	119	1773205	40.98	ug\L		100

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\040201\C19210.D Vial: 6
Acq On : 04/02/01 22:15 Operator: JP/VRR
Sample : ICV 40 ppb (V01034,V01028) Inst : VOA-C
Misc : WATER 25ml DF=1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 2 22:36 2001 Quant Results File: 04020125.RES

Quant Method : c:\hpchem\1\data\040201\04020125.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Mon Apr 02 21:42:29 2001
Response via : Initial Calibration
DataAcq Meth : 04020125

Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
30) 1,4-Dioxane	9.10	88	58800	1379.74	ug\L		94
31) 1,1-Dichloropropene	7.13	77	608549	38.56	ug\L		99
33) Benzene	7.47	78	4643334	38.65	ug\L		100
34) Isobutyl alcohol	7.58	43	191603	841.49	ug\L		98
35) 1,2-Dichloroethane	7.57	62	1035087	40.90	ug\L		99
36) Trichloroethene	8.49	95	1475459	40.80	ug\L		97
37) 1,2-Dichloropropane	8.86	63	1079986	42.56	ug\L		98
38) Dibromomethane	9.05	93	391488	42.87	ug\L		97
39) Methylmethacrylate	9.05	69	295236	47.35	ug\L		98
40) Bromodichloromethane	9.31	83	1393596	45.32	ug\L		100
41) 2-Nitropropane	9.67	43	88948	45.43	ug\L		99
42) 2-Chloroethyl-vinyl ether	9.75	63	224355	50.10	ug\L		99
43) cis-1,3-Dichloropropene	9.93	75	1479391	46.59	ug\L		98
44) 4-Methyl-2-Pentanone	10.17	85	61180	48.26	ug\L	#	94
47) Toluene	10.37	92	3184740	37.96	ug\L		98
48) trans-1,3-Dichloropropene	10.76	75	1077673	47.02	ug\L		98
49) Ethylmethacrylate	10.86	69	732463	48.45	ug\L		98
50) 1,1,2-Trichloroethane	11.02	83	475660	42.74	ug\L		99
51) Tetrachloroethene	11.12	164	1237100	37.83	ug\L		99
52) 1,3-Dichloropropane	11.24	76	1056742	42.07	ug\L		98
53) 2-Hexanone	11.36	43	226590	48.38	ug\L		99
54) Dibromochloromethane	11.57	129	767440	48.31	ug\L		99
55) 1,2-Dibromoethane	11.71	107	525973	43.75	ug\L		98
56) Chlorobenzene	12.37	112	3271837	38.26	ug\L		98
57) 1,1,1,2-Tetrachloroethane	12.49	131	986784	40.19	ug\L		100
58) Ethylbenzene	12.51	91	5927465	35.52	ug\L		98
59) total-Xylene	12.66	106	6431721m	108.53	ug\L		
60) Styrene	13.26	104	3281442	40.83	ug\L		99
62) Bromoform	13.56	173	343383	49.68	ug\L		98
63) Isopropylbenzene	13.72	105	6279225	36.32	ug\L		98
64) cis-1,4-dichloro-2-Butene	13.88	75	156638	56.12	ug\L	#	87
65) trans-1,4-dichloro-2-Buten	14.27	75	584660	40.78	ug\L		98
67) Bromobenzene	14.18	156	1088591	41.22	ug\L		100
68) 1,1,2,2-Tetrachloroethane	14.23	83	530721	41.50	ug\L		99
69) 1,2,3-Trichloropropane	14.27	75	584660	40.78	ug\L		97
70) n-Propylbenzene	14.29	91	7486458	36.25	ug\L		97
71) 2-Chlorotoluene	14.43	91	4217589	37.70	ug\L		100
72) 4-Chlorotoluene	14.59	91	4697595	41.11	ug\L		98
73) 1,3,5-Trimethylbenzene	14.54	105	4980251	37.01	ug\L		100
74) Pentachloroethane	15.06	167	659307	41.23	ug\L		97
75) tert-Butylbenzene	14.98	119	4308271	36.79	ug\L		100
76) 1,2,4-Trimethylbenzene	15.06	105	4677581	36.77	ug\L		98

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\040201\C19210.D Vial: 6
Acq On : 04/02/01 22:15 Operator: JP/VRR
Sample : ICV 40 ppb (V01034,V01028) Inst : VOA-C
Misc : WATER 25ml DF=1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 2 22:36 2001 Quant Results File: 04020125.RES

Quant Method : c:\hpchem\1\data\040201\04020125.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Mon Apr 02 21:42:29 2001
Response via : Initial Calibration
DataAcq Meth : 04020125

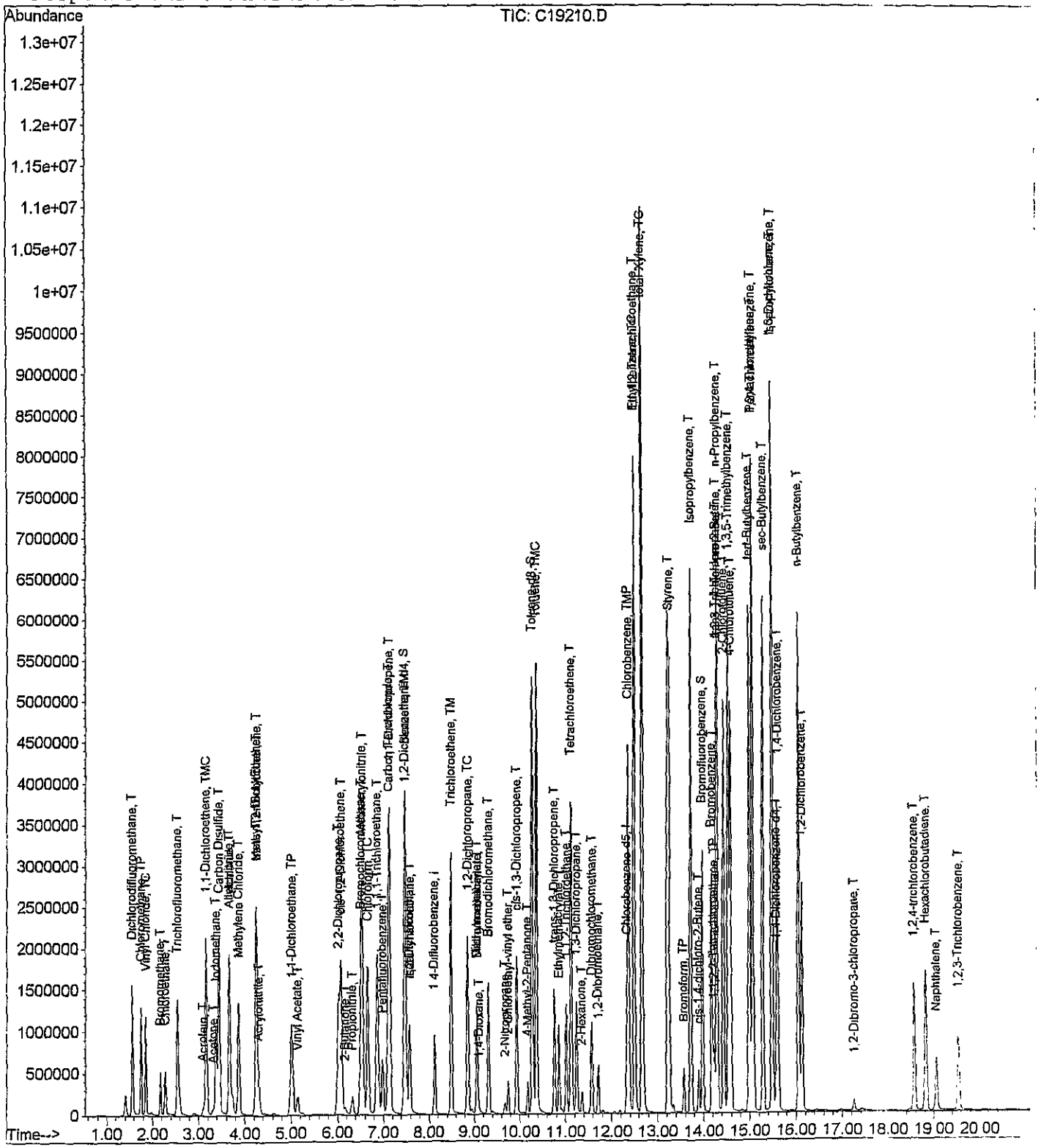
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
77)	sec-Butylbenzene	15.28	105	6355530	36.59	ug\L		98
78)	1,3-Dichlorobenzene	15.48	146	2127961	36.90	ug\L		100
79)	Isopropyltoluene	15.48	119	4891805	36.66	ug\L		99
80)	1,4-Dichlorobenzene	15.60	146	2151846	38.84	ug\L		99
81)	1,2-Dichlorobenzene	16.13	146	1691210	38.92	ug\L		99
82)	n-Butylbenzene	16.05	91	4906286	39.10	ug\L		99
83)	1,2-Dibromo-3-chloropropan	17.26	75	59432	33.43	ug\L	#	81
84)	1,2,4-trichlorobenzene	18.57	180	903579	38.38	ug\L		100
85)	Hexachlorobutadiene	18.82	225	624931	31.55	ug\L		100
86)	Naphthalene	19.06	128	1046631	33.39	ug\L		100
87)	1,2,3-Trichlorobenzene	19.54	180	619006	37.52	ug\L		99

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\040201\C19210.D Vial: 6
Acq On : 04/02/01 22:15 Operator: JP/VRR
Sample : ICV 40 ppb (V01034,V01028) Inst : VOA-C
Misc : WATER 25ml DF=1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 2 22:36 2001 Quant Results File: 04020125.RES

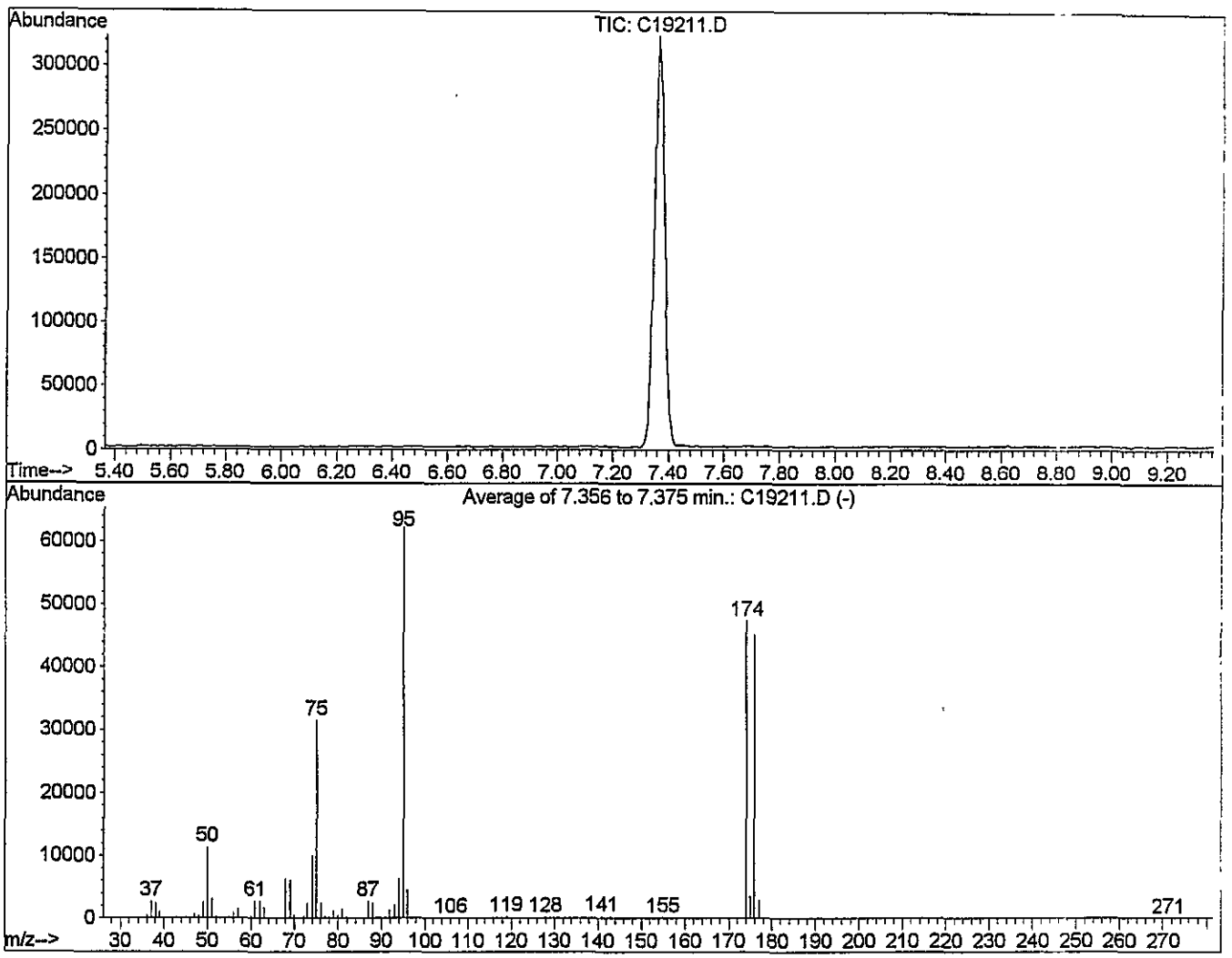
Method : C:\HPCHEM\1\DATA\040201\04020125.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Tue Apr 03 07:45:18 2001
Response via : Initial Calibration



BFB

Data File : C:\HPCHEM\1\DATA\040301\C19211.D
Acq On : 04/03/01 08:33
Sample : BFB 50ng
Misc :
MS Integration Params: rteint.p
Method : C:\HPCHEM\1\DATA\040301\04030125.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER

Vial: 1
Operator: JP/VRR
Inst : VOA-C
Multiplr: 1.00



AutoFind: Scans 622, 623, 624; Background Corrected with Scan 614

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	18.3	11404	PASS
75	95	30	60	50.8	31595	PASS
95	95	100	100	100.0	62189	PASS
96	95	5	9	7.3	4563	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	76.5	47568	PASS
175	174	5	9	7.3	3458	PASS
176	174	95	101	95.4	45389	PASS
177	176	5	9	6.4	2905	PASS

C19211.D 04030125.M Tue Apr 03 13:51:57 2001 INST:VOA-C

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\040301\C19212.D Vial: 1
Acq On : 04/03/01 08:56 Operator: JP/VRR
Sample : ICV/CCV 10 ppb (V01035,V01028) Inst : VOA-C
Misc : WATER 25ml Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 3 9:20 2001 Quant Results File: 04030125.RES

Quant Method : C:\HPCHEM\1\DATA\040301\04030125.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Tue Apr 03 07:45:18 2001
Response via : Initial Calibration
DataAcq Meth : 04030125

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Pentafluorobenzene	6.97	168	667440	10.00	ug\L		0.00
45) Chlorobenzene-d5	12.33	117	856561	10.00	ug\L		0.00
61) 1,4-Dichlorobenzene-d4	15.57	152	335518	10.00	ug\L		0.00
88) 1.4-Difluorobenzene	8.12	116	905	10.00	ug\L		0.00
System Monitoring Compounds							
32) 1,2-Dichloroethane-d4	7.44	65	225881	9.82	ug\L		0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 98.20%				
46) Toluene-d8	10.27	98	1383956	10.88	ug\L		0.00
Spiked Amount 10.000	Range 87 - 104		Recovery = 108.80%#				
66) Bromofluorobenzene	13.97	95	401171	11.06	ug\L		0.00
Spiked Amount 10.000	Range 84 - 110		Recovery = 110.60%#				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.55	85	516026	12.24	ug\L		99
3) Chloromethane	1.74	50	438633	12.63	ug\L		99
4) Vinyl Chloride	1.85	62	315170	9.95	ug\L		99
5) Bromomethane	2.16	94	78397	10.17	ug\L		98
6) Chloroethane	2.27	64	153704	10.81	ug\L		96
7) Trichlorofluoromethane	2.53	101	405472	9.97	ug\L	#	100
8) Acrolein	3.10	56	26122	20.22	ug\L	#	99
9) Acrylonitrile	4.31	53	49450	18.68	ug\L		93
10) 1,1-Dichloroethene	3.16	96	316747	10.65	ug\L		99
11) Acetone	3.31	58	8814	10.15	ug\L		95
12) Iodomethane	3.37	142	339719	8.71	ug\L		98
13) Allylchloride	3.66	39	393316	10.02	ug\L		96
14) Carbon Disulfide	3.43	76	1082923	10.21	ug\L		100
15) Acetonitrile	3.66	41	504541	102.39	ug\L		97
16) Methylene Chloride	3.85	86	159410	9.74	ug\L		99
17) trans-1,2-Dichloroethene	4.24	96	325135	10.73	ug\L		98
18) MethylTertButylEther	4.24	73	294180	9.24	ug\L		99
19) 1,1-Dichloroethane	5.00	63	525312	10.52	ug\L		98
20) Vinyl Acetate	5.12	43	117143	8.37	ug\L		100
21) 2,2-Dichloropropane	6.01	77	504819	10.78	ug\L		100
22) cis-1,2-Dichloroethene	6.06	96	313591	10.64	ug\L		99
23) 2-Butanone	6.17	72	7558	10.29	ug\L	#	82
24) Propionitrile	6.31	54	79954	94.59	ug\L		99
25) Methacrylonitrile	6.52	41	480340	95.09	ug\L		99
26) Bromochloromethane	6.49	128	93289	9.79	ug\L		98
27) Chloroform	6.65	83	528350	9.94	ug\L		99
28) 1,1,1-Trichloroethane	6.85	97	534759	10.29	ug\L		99
29) Carbon Tetrachloride	7.10	119	444832	10.46	ug\L		96

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\040301\C19212.D Vial: 1
Acq On : 04/03/01 08:56 Operator: JP/VRR
Sample : ICV/CCV 10 ppb (V01035,V01028) Inst : VOA-C
Misc : WATER 25ml Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 3 9:20 2001 Quant Results File: 04030125.RES

Quant Method : C:\HPCHEM\1\DATA\040301\04030125.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Tue Apr 03 07:45:18 2001
Response via : Initial Calibration
DataAcq Meth : 04030125

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
30) 1,4-Dioxane	9.10	88	13294	203.90 ug\L #	88
31) 1,1-Dichloropropene	7.13	77	159733	10.55 ug\L	100
33) Benzene	7.47	78	1222861	10.59 ug\L	100
34) Isobutyl alcohol	7.58	43	41805	183.76 ug\L	97
35) 1,2-Dichloroethane	7.56	62	236426	9.51 ug\L	100
36) Trichloroethene	8.48	95	373550	10.47 ug\L	98
37) 1,2-Dichloropropane	8.85	63	254152	10.03 ug\L	100
38) Dibromomethane	9.05	93	88832	9.62 ug\L	96
39) Methylmethacrylate	9.05	69	60679	9.23 ug\L	98
40) Bromodichloromethane	9.30	83	308851	9.74 ug\L	98
41) 2-Nitropropane	9.67	43	15730	7.69 ug\L	97
42) 2-Chloroethyl-vinyl ether	9.75	63	47734	9.06 ug\L	99
43) cis-1,3-Dichloropropene	9.93	75	327040	9.82 ug\L	97
44) 4-Methyl-2-Pentanone	10.17	85	11827	8.65 ug\L #	89
47) Toluene	10.37	92	832566	10.89 ug\L	100
48) trans-1,3-Dichloropropene	10.75	75	224099	9.69 ug\L	99
49) Ethylmethacrylate	10.85	69	148918	9.64 ug\L	99
50) 1,1,2-Trichloroethane	11.02	83	106156	9.89 ug\L	99
51) Tetrachloroethene	11.12	164	313380	10.58 ug\L	98
52) 1,3-Dichloropropane	11.24	76	233013	9.73 ug\L	100
53) 2-Hexanone	11.36	43	43273	8.98 ug\L	99
54) Dibromochloromethane	11.57	129	158959	9.78 ug\L	100
55) 1,2-Dibromoethane	11.70	107	108666	9.27 ug\L	99
56) Chlorobenzene	12.36	112	817815	10.41 ug\L	98
57) 1,1,1,2-Tetrachloroethane	12.50	131	238745	10.33 ug\L	99
58) Ethylbenzene	12.50	91	1656141	11.09 ug\L	99
59) total-Xylene	12.66	106	1752070m	32.86 ug\L	
60) Styrene	13.25	104	812387	10.68 ug\L	98
62) Bromoform	13.57	173	63350	9.19 ug\L	97
63) Isopropylbenzene	13.72	105	1693736	11.27 ug\L	100
64) cis-1,4-dichloro-2-Butene	13.89	75	26981	8.76 ug\L #	87
65) trans-1,4-dichloro-2-Buten	14.28	75	129633	9.84 ug\L	95
67) Bromobenzene	14.18	156	253086	10.48 ug\L	97
68) 1,1,2,2-Tetrachloroethane	14.22	83	113549	9.61 ug\L	99
69) 1,2,3-Trichloropropane	14.28	75	129633	9.84 ug\L	94
70) n-Propylbenzene	14.29	91	2044792	11.38 ug\L	99
71) 2-Chlorotoluene	14.43	91	1087821	11.03 ug\L	98
72) 4-Chlorotoluene	14.58	91	1172124	11.20 ug\L	98
73) 1,3,5-Trimethylbenzene	14.53	105	1332149	11.32 ug\L	100
74) Pentachloroethane	15.06	167	152819	10.43 ug\L	98
75) tert-Butylbenzene	14.99	119	1151868	11.30 ug\L	100
76) 1,2,4-Trimethylbenzene	15.06	105	1260302	11.33 ug\L	98

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\040301\C19212.D Vial: 1
Acq On : 04/03/01 08:56 Operator: JP/VRR
Sample : ICV/CCV 10 ppb (V01035,V01028) Inst : VOA-C
Misc : WATER 25ml Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 3 9:20 2001 Quant Results File: 04030125.RES

Quant Method : C:\HPCHEM\1\DATA\040301\04030125.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Tue Apr 03 07:45:18 2001
Response via : Initial Calibration
DataAcq Meth : 04030125

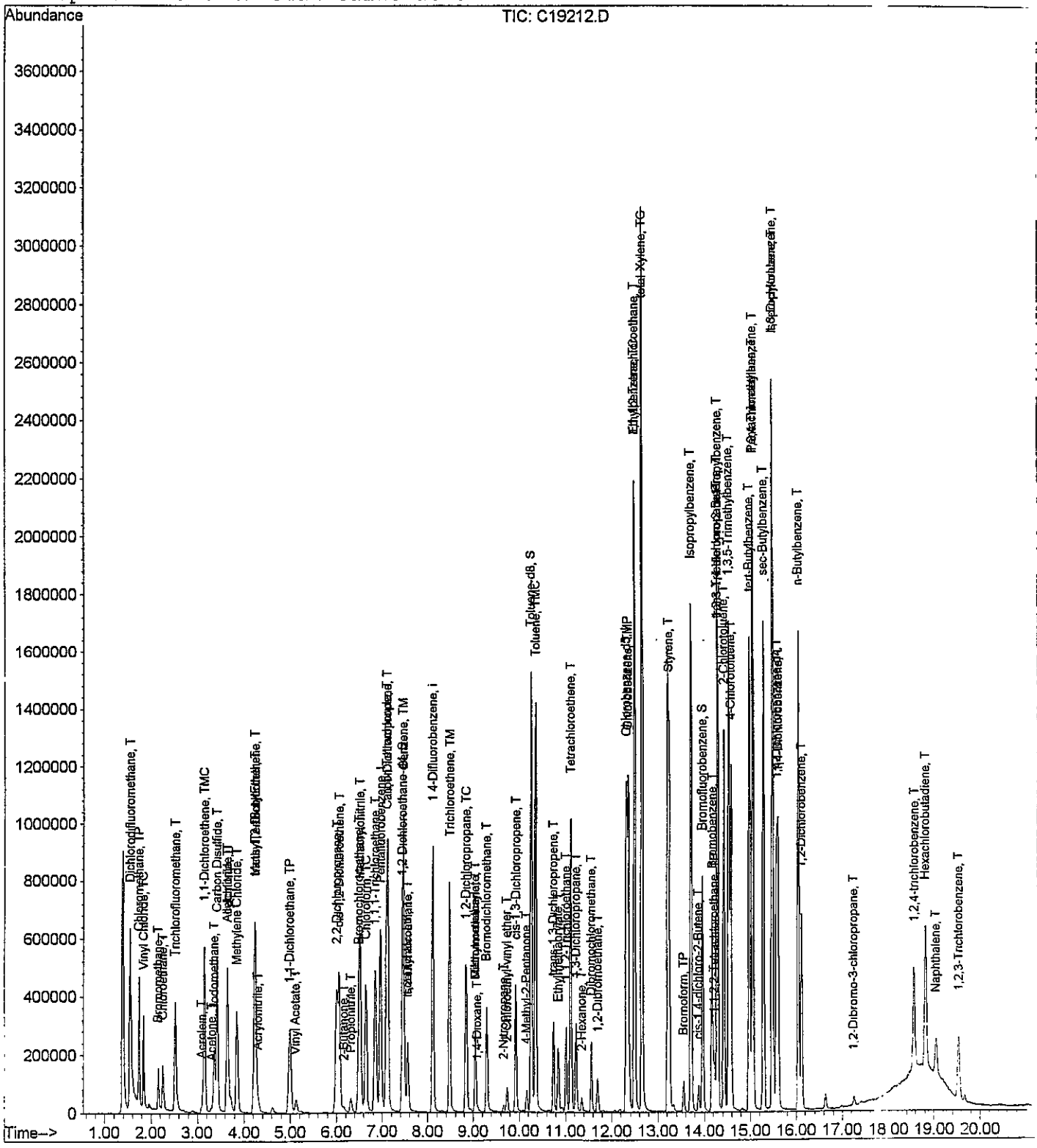
Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
77) sec-Butylbenzene	15.29	105	1714616	11.39	ug\L	99
78) 1,3-Dichlorobenzene	15.48	146	542480	10.75	ug\L	99
79) Isopropyltoluene	15.49	119	1364829	11.74	ug\L	99
80) 1,4-Dichlorobenzene	15.60	146	515160	10.44	ug\L	99
81) 1,2-Dichlorobenzene	16.12	146	404144	10.40	ug\L	98
82) n-Butylbenzene	16.05	91	1298686	11.64	ug\L	100
83) 1,2-Dibromo-3-chloropropan	17.25	75	12554	9.23	ug\L	88
84) 1,2,4-trichlorobenzene	18.57	180	210525	10.17	ug\L	100
85) Hexachlorobutadiene	18.82	225	180125	12.13	ug\L	100
86) Naphthalene	19.06	128	214283	9.46	ug\L	100
87) 1,2,3-Trichlorobenzene	19.54	180	148008	10.36	ug\L	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\040301\C19212.D Vial: 1
Acq On : 04/03/01 08:56 Operator: JP/VRR
Sample : ICV/CCV 10 ppb (V01035,V01028) Inst : VOA-C
Misc : WATER 25ml Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 3 9:20 2001 Quant Results File: 04030125.RES

Method : C:\HPCHEM\1\DATA\040301\04030125.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Tue Apr 03 09:48:22 2001
Response via : Initial Calibration



Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\040301\C19212.D
Acq On : 04/03/01 08:56
Sample : ICV/CCV 10 ppb (V01035,V01028)
Misc : WATER 25ml
MS Integration Params: rteint.p

Vial: 1
Operator: JP/VRR
Inst : VOA-C
Multiplr: 1.00

Method : C:\HPCHEM\1\DATA\040301\04030125.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Tue Apr 03 09:48:22 2001
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	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Pentafluorobenzene	1.000	1.000	0.0	112	0.00
2	T	Dichlorodifluoromethane	0.632	0.773	-22.3	135	0.00
3	TP	Chloromethane	0.520	0.657	-26.3#	137	0.00
4	TC	Vinyl Chloride	0.474	0.472	0.4	104	0.00
5	T	Bromomethane	0.123	0.117	4.9	104	0.00
6	T	Chloroethane	0.213	0.230	-8.0	110	0.00
7	T	Trichlorofluoromethane	0.609	0.608	0.2	106	0.00
8	T	Acrolein	0.019	0.020	-5.3	115	0.00
9	T	Acrylonitrile	0.040	0.037	7.5	116	0.00
10	TMC	1,1-Dichloroethene	0.446	0.475	-6.5	117	0.00
11	T	Acetone	0.013	0.013	0.0	117	0.00
12	T	Iodomethane	0.584	0.509	12.8	97	0.00
13	T	Allylchloride	0.588	0.589	-0.2	111	0.00
14	T	Carbon Disulfide	1.589	1.623	-2.1	114	0.00
15	T	Acetonitrile	0.074	0.076	-2.7	115	0.00
16	T	Methylene Chloride	0.245	0.239	2.4	114	0.00
17	T	trans-1,2-Dichloroethene	0.454	0.487	-7.3	118	0.00
18	T	MethylTertButylEther	0.477	0.441	7.5	107	0.00
19	TP	1,1-Dichloroethane	0.748	0.787	-5.2	118	0.00
20	T	Vinyl Acetate	0.210	0.176	16.2	100	0.00
21	T	2,2-Dichloropropane	0.702	0.756	-7.7	114	0.00
22	T	cis-1,2-Dichloroethene	0.442	0.470	-6.3	120	0.00
23	T	2-Butanone	0.011	0.011	0.0	117	0.00
24	T	Propionitrile	0.013	0.012	7.7	116	0.00
25	T	Methacrylonitrile	0.076	0.072	5.3	109	0.00
26	T	Bromochloromethane	0.143	0.140	2.1	112	0.00
27	TC	Chloroform	0.796	0.792	0.5	114	0.00
28	T	1,1,1-Trichloroethane	0.779	0.801	-2.8	116	0.00
29	T	Carbon Tetrachloride	0.637	0.666	-4.6	117	0.00
30	T	1,4-Dioxane	0.001	0.001	0.0	128	0.00
31	T	1,1-Dichloropropene	0.227	0.239	-5.3	119	0.00
32	S	1,2-Dichloroethane-d4	0.345	0.338	2.0	112	0.00
33	TM	Benzene	1.730	1.832	-5.9	122	0.00
34	T	Isobutyl alcohol	0.003	0.003	0.0	119	0.00
35	T	1,2-Dichloroethane	0.372	0.354	4.8	110	0.00
36	TM	Trichloroethene	0.535	0.560	-4.7	121	0.00
37	TC	1,2-Dichloropropane	0.380	0.381	-0.3	119	0.00
38	T	Dibromomethane	0.138	0.133	3.6	111	0.00
39	T	Methylmethacrylate	0.098	0.091	7.1	109	0.00
40	T	Bromodichloromethane	0.475	0.463	2.5	112	0.00
41	T	2-Nitropropane	0.031	0.024	22.6	96	0.00
42	T	2-Chloroethyl-vinyl ether	0.076	0.072	5.3	113	0.00

(# = Out of Range

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\040301\C19212.D
Acq On : 04/03/01 08:56
Sample : ICV/CCV 10 ppb (V01035,V01028)
Misc : WATER 25ml
MS Integration Params: rteint.p

Vial: 1
Operator: JP/VRR
Inst : VOA-C
Multiplr: 1.00

Method : C:\HPCHEM\1\DATA\040301\04030125.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Tue Apr 03 09:48:22 2001
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	AvgRF	CCRF	%Dev	Area%	Dev(min)
43	T	cis-1,3-Dichloropropene	0.499	0.490	1.8	112	0.00
44	T	4-Methyl-2-Pentanone	0.020	0.018	10.0	103	0.00
45	I	Chlorobenzene-d5	1.000	1.000	0.0	110	0.00
46	S	Toluene-d8	1.485	1.616	-8.8	121	0.00
47	TMC	Toluene	0.893	0.972	-8.8	123	0.00
48	T	trans-1,3-Dichloropropene	0.270	0.262	3.0	110	0.00
49	T	Ethylmethacrylate	0.180	0.174	3.3	115	0.00
50	T	1,1,2-Trichloroethane	0.125	0.124	0.8	115	0.00
51	T	Tetrachloroethene	0.346	0.366	-5.8	118	0.00
52	T	1,3-Dichloropropane	0.280	0.272	2.9	113	0.00
53	T	2-Hexanone	0.056	0.051	8.9	111	0.00
54	T	Dibromochloromethane	0.190	0.186	2.1	112	0.00
55	T	1,2-Dibromoethane	0.137	0.127	7.3	106	0.00
56	TMP	Chlorobenzene	0.917	0.955	-4.1	117	0.00
57	T	1,1,1,2-Tetrachloroethane	0.270	0.279	-3.3	110	0.00
58	TC	Ethylbenzene	1.744	1.933	-10.8	120	0.00
59	TG	total-Xylene	0.623	0.682	-9.5	119	0.00
60	T	Styrene	0.888	0.948	-6.8	115	0.00
61	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	106	0.00
62	TP	Bromoform	0.205	0.189	7.8	103	0.00
63	T	Isopropylbenzene	4.480	5.048	-12.7	117	0.00
64	T	cis-1,4-dichloro-2-Butene	0.089	0.080	10.1	100	0.00
65	T	trans-1,4-dichloro-2-Butene	0.393	0.386	1.8	108	0.00
66	S	Bromofluorobenzene	1.081	1.196	-10.6	117	0.00
67	T	Bromobenzene	0.720	0.754	-4.7	113	0.00
68	TP	1,1,2,2-Tetrachloroethane	0.352	0.338	4.0	108	0.00
69	T	1,2,3-Trichloropropane	0.393	0.386	1.8	108	0.00
70	T	n-Propylbenzene	5.356	6.094	-13.8	117	0.00
71	T	2-Chlorotoluene	2.940	3.242	-10.3	117	0.00
72	T	4-Chlorotoluene	3.119	3.493	-12.0	114	0.00
73	T	1,3,5-Trimethylbenzene	3.508	3.970	-13.2	119	0.00
74	T	Pentachloroethane	0.437	0.455	-4.1	110	0.00
75	T	tert-Butylbenzene	3.037	3.433	-13.0	119	0.00
76	T	1,2,4-Trimethylbenzene	3.316	3.756	-13.3	116	0.00
77	T	sec-Butylbenzene	4.487	5.110	-13.9	118	0.00
78	T	1,3-Dichlorobenzene	1.505	1.617	-7.4	113	0.00
79	T	Isopropyltoluene	3.464	4.068	-17.4	120	0.00
80	T	1,4-Dichlorobenzene	1.471	1.535	-4.4	113	0.00
81	T	1,2-Dichlorobenzene	1.159	1.205	-4.0	113	0.00
82	T	n-Butylbenzene	3.325	3.871	-16.4	122	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\040301\C19212.D Vial: 1
Acq On : 04/03/01 08:56 Operator: JP/VRR
Sample : ICV/CCV 10 ppb (V01035,V01028) Inst : VOA-C
Misc : WATER 25ml Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\HPCHEM\1\DATA\040301\04030125.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Tue Apr 03 09:48:22 2001
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	AvgRF	CCRF	%Dev	Area%	Dev(min)
83	T	1,2-Dibromo-3-chloropropane	0.044	0.037	15.9	89	0.00
84	T	1,2,4-trichlorobenzene	0.617	0.627	-1.6	114	0.00
85	T	Hexachlorobutadiene	0.480	0.537	-11.9	117	0.00
86	T	Naphthalene	0.762	0.639	16.1	112	0.00
87	T	1,2,3-Trichlorobenzene	0.426	0.441	-3.5	115	0.00
88	i	1.4-Difluorobenzene	1.000	1.000	0.0	63	0.00

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\040301\C19213.D Vial: 2
Acq On : 04/03/01 09:36 Operator: JP/VRR
Sample : QVW0403011 25ml DF=1 Inst : VOA-C
Misc : QC/WATER BLANK Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 3 13:53 2001 Quant Results File: 04030125.RES

Quant Method : C:\HPCHEM\1\DATA\040301\04030125.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Tue Apr 03 09:48:22 2001
Response via : Initial Calibration
DataAcq Meth : 04030125

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	6.98	168	717969	10.00	ug\L	0.00
45) Chlorobenzene-d5	12.33	117	856037	10.00	ug\L	0.00
61) 1,4-Dichlorobenzene-d4	15.57	152	308345	10.00	ug\L	0.00
88) 1.4-Difluorobenzene	0.00	116	0m	10.00	ug\L	-8.12
System Monitoring Compounds						
32) 1,2-Dichloroethane-d4	7.45	65	220937	8.93	ug\L	0.02
Spiked Amount 10.000	Range 80 - 120		Recovery = 89.30%			
46) Toluene-d8	10.27	98	1339943	10.54	ug\L	0.00
Spiked Amount 10.000	Range 87 - 104		Recovery = 105.40%#			
66) Bromofluorobenzene	13.97	95	350834	10.52	ug\L	0.00
Spiked Amount 10.000	Range 84 - 110		Recovery = 105.20%			
Target Compounds						Qvalue
86) Naphthalene	19.05	128	9464	0.69	ug\L	100

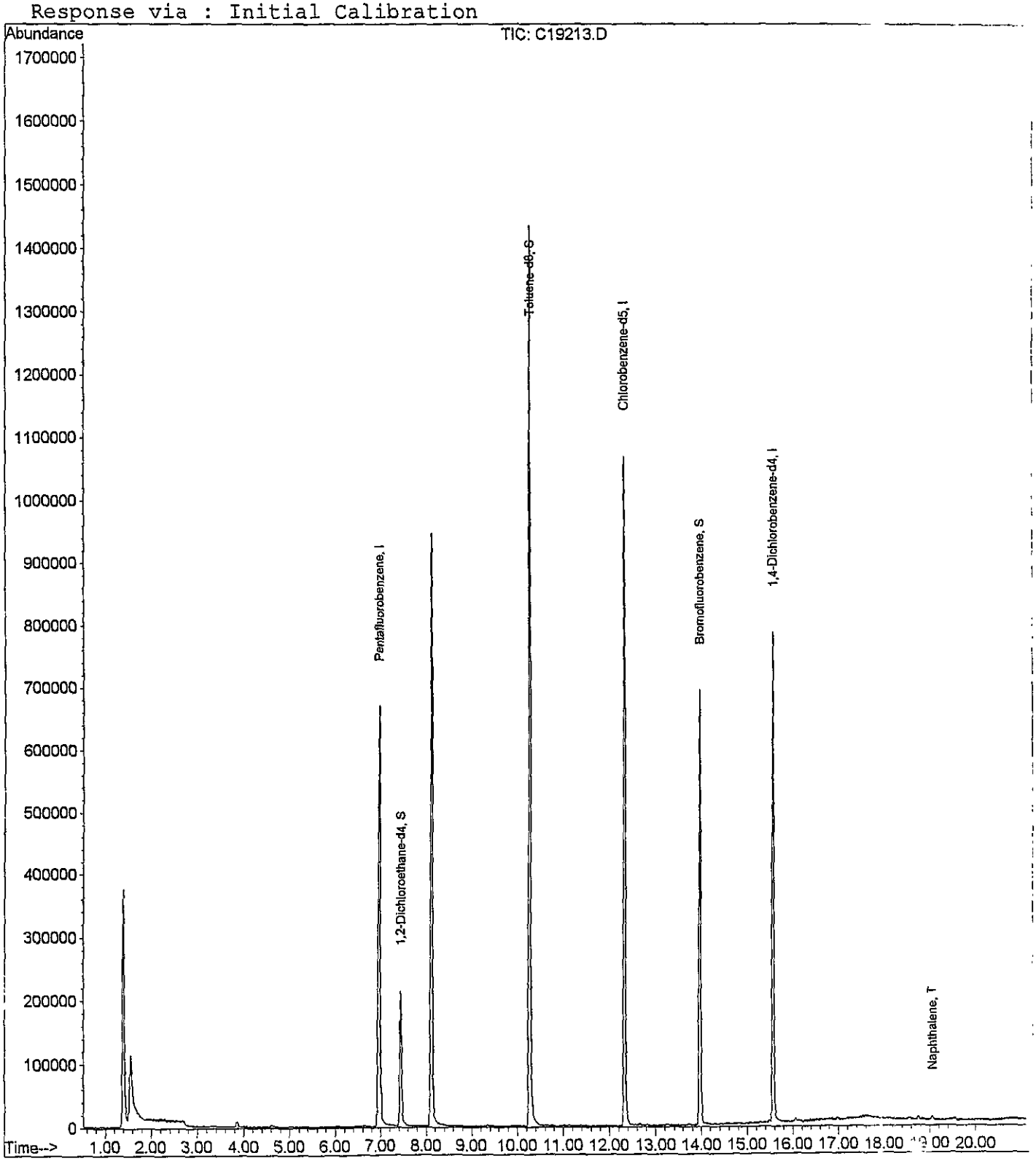
VRR
4-3-01

(#) = qualifier out of range (m) = manual integration
C19213.D 04[illegible].M Tue Apr 03 13:54:12 2001 INST:VOA-C Page 1

Quantitation Report

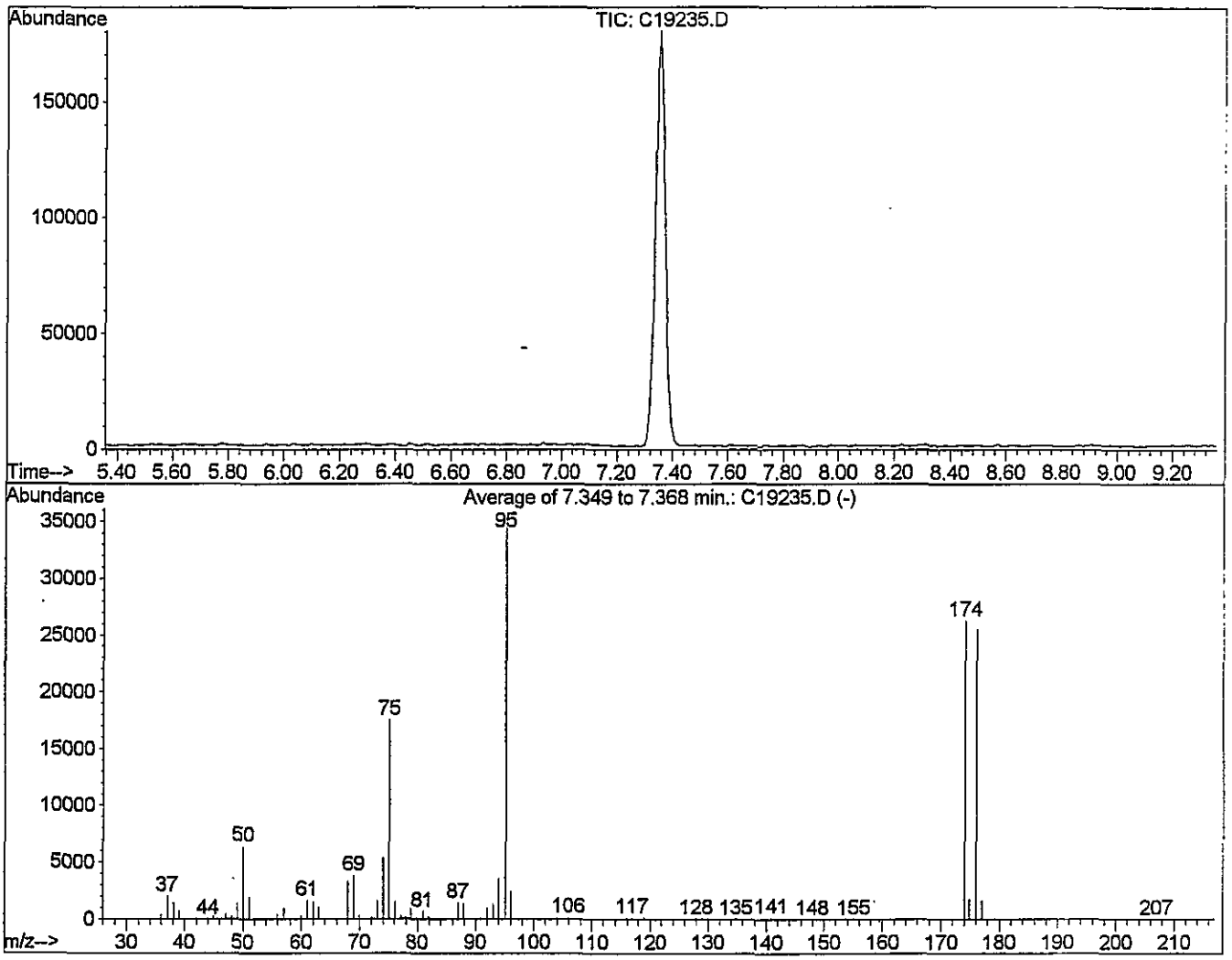
Data File : C:\HPCHEM\1\DATA\040301\C19213.D Vial: 2
Acq On : 04/03/01 09:36 Operator: JP/VRR
Sample : QVW0403011 25ml DF=1 Inst : VOA-C
Misc : QC/WATER BLANK Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 3 13:53 2001 Quant Results File: 04030125.RES

Method : C:\HPCHEM\1\DATA\040301\04030125.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Tue Apr 03 09:48:22 2001
Response via : Initial Calibration



BFB

Data File : C:\HPCHEM\1\DATA\040401\C19235.D Vial: 1
Acq On : 04/04/01 14:33 Operator: JP/VRR
Sample : BFB 50ng Inst : VOA-C
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Method : C:\HPCHEM\1\METHODS\BFB01.M (RTE Integrator)
Title :



AutoFind: Scans 622, 623, 624; Background Corrected with Scan 614

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	18.6	6407	PASS
75	95	30	66	50.9	17539	PASS
95	95	100	100	100.0	34432	PASS
96	95	5	9	7.2	2474	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	76.6	26392	PASS
175	174	4	9	6.8	1800	PASS
176	174	93	101	97.2	25643	PASS
177	176	5	9	6.4	1635	PASS

C19235.D BFB01.M Wed Apr 04 14:46:18 2001 INST:VOA-C

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\040401\C19236.D Vial: 1
Acq On : 04/04/01 14:56 Operator: JP/VRR
Sample : CCV 10 ppb (V01034,V01028) Inst : VOA-C
Misc : WATER 25ml Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 4 15:19 2001 Quant Results File: 04040125.RES

Quant Method : c:\hpchem\1\data\040401\04040125.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Tue Apr 03 09:48:22 2001
Response via : Initial Calibration
DataAcq Meth : 04040125

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Pentafluorobenzene	6.97	168	623787	10.00	ug\L		0.00
45) Chlorobenzene-d5	12.32	117	824219	10.00	ug\L		0.00
61) 1,4-Dichlorobenzene-d4	15.56	152	328616	10.00	ug\L		0.00
88) 1.4-Difluorobenzene	8.11	116	1623	10.00	ug\L		-0.01
System Monitoring Compounds							
32) 1,2-Dichloroethane-d4	7.44	65	217229	10.11	ug\L		0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 101.10%				
46) Toluene-d8	10.27	98	1218630	9.96	ug\L		0.00
Spiked Amount 10.000	Range 87 - 104		Recovery = 99.60%				
66) Bromofluorobenzene	13.96	95	365581	10.29	ug\L		0.00
Spiked Amount 10.000	Range 84 - 110		Recovery = 102.90%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.55	85	319541	8.11	ug\L		99
3) Chloromethane	1.74	50	292972	9.03	ug\L		97
4) Vinyl Chloride	1.84	62	264988	8.95	ug\L		99
5) Bromomethane	2.16	94	78628	10.98	ug\L		97
6) Chloroethane	2.27	64	110623	8.32	ug\L		98
7) Trichlorofluoromethane	2.53	101	362876	9.55	ug\L	#	100
8) Acrolein	3.08	56	21778	18.03	ug\L	#	97
9) Acrylonitrile	4.30	53	44586	18.02	ug\L		97
10) 1,1-Dichloroethene	3.15	96	257817	9.28	ug\L		97
11) Acetone	3.30	58	22336	30.14	ug\L		93
12) Iodomethane	3.37	142	362113	9.93	ug\L		96
13) Allylchloride	3.65	39	358852	9.78	ug\L		94
14) Carbon Disulfide	3.43	76	994289	10.03	ug\L		100
15) Acetonitrile	3.65	41	433987	94.24	ug\L		95
16) Methylene Chloride	3.85	86	138883	9.08	ug\L		97
17) trans-1,2-Dichloroethene	4.23	96	263712	9.31	ug\L		98
18) MethylTertButylEther	4.23	73	260425	8.76	ug\L		100
19) 1,1-Dichloroethane	4.99	63	433833	9.29	ug\L		98
20) Vinyl Acetate	5.13	43	106404	8.14	ug\L		99
21) 2,2-Dichloropropane	6.00	77	420393	9.60	ug\L		99
22) cis-1,2-Dichloroethene	6.06	96	255403	9.27	ug\L		96
23) 2-Butanone	6.16	72	8503	12.39	ug\L	#	95
24) Propionitrile	6.31	54	69801	88.36	ug\L		98
25) Methacrylonitrile	6.52	41	444668	94.19	ug\L		97
26) Bromochloromethane	6.49	128	81001	9.10	ug\L		97
27) Chloroform	6.64	83	464035	9.34	ug\L		100
28) 1,1,1-Trichloroethane	6.84	97	453703	9.34	ug\L		99
29) Carbon Tetrachloride	7.10	119	370617	9.33	ug\L		96

(#) = qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\040401\C19236.D Vial: 1
Acq On : 04/04/01 14:56 Operator: JP/VRR
Sample : CCV 10 ppb (V01034,V01028) Inst : VOA-C
Misc : WATER 25ml Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 4 15:19 2001 Quant Results File: 04040125.RES

Quant Method : c:\hpchem\1\data\040401\04040125.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Tue Apr 03 09:48:22 2001
Response via : Initial Calibration
DataAcq Meth : 04040125

Compound	R.T.	QIon	Response	Conc Unit		Qvalue
30) 1,4-Dioxane	9.11	88	7056	125.75 ug\L	#	95
31) 1,1-Dichloropropene	7.12	77	134854	9.53 ug\L		100
33) Benzene	7.46	78	1002702	9.29 ug\L		100
34) Isobutyl alcohol	7.57	43	45533	214.16 ug\L		92
35) 1,2-Dichloroethane	7.56	62	216664	9.32 ug\L		99
36) Trichloroethene	8.48	95	313306	9.39 ug\L		98
37) 1,2-Dichloropropane	8.85	63	216570	9.15 ug\L		100
38) Dibromomethane	9.05	93	78905	9.15 ug\L		97
39) Methylmethacrylate	9.05	69	53419	8.69 ug\L		94
40) Bromodichloromethane	9.30	83	274928	9.27 ug\L		98
41) 2-Nitropropane	9.66	43	14166	7.41 ug\L		96
42) 2-Chloroethyl-vinyl ether	9.74	63	43416	8.84 ug\L		99
43) cis-1,3-Dichloropropene	9.93	75	284344	9.13 ug\L		96
44) 4-Methyl-2-Pentanone	10.17	85	12043	9.43 ug\L	#	98
47) Toluene	10.36	92	691871	9.40 ug\L		100
48) trans-1,3-Dichloropropene	10.75	75	197628	8.88 ug\L		98
49) Ethylmethacrylate	10.85	69	130017	8.74 ug\L		97
50) 1,1,2-Trichloroethane	11.01	83	93810	9.08 ug\L		99
51) Tetrachloroethene	11.12	164	258011	9.05 ug\L		98
52) 1,3-Dichloropropane	11.24	76	205060	8.90 ug\L		99
53) 2-Hexanone	11.35	43	43509	9.38 ug\L		98
54) Dibromochloromethane	11.56	129	137135	8.77 ug\L		99
55) 1,2-Dibromoethane	11.70	107	101719	9.02 ug\L	#	97
56) Chlorobenzene	12.36	112	746019	9.87 ug\L		99
57) 1,1,1,2-Tetrachloroethane	12.49	131	204085	9.18 ug\L		99
58) Ethylbenzene	12.50	91	1378660	9.59 ug\L		99
59) total-Xylene	12.66	106	1478387m	28.81 ug\L		
60) Styrene	13.25	104	697153	9.52 ug\L		97
62) Bromoform	13.56	173	54072	8.01 ug\L		98
63) Isopropylbenzene	13.72	105	1423071	9.67 ug\L		99
64) cis-1,4-dichloro-2-Butene	13.89	75	24028	8.08 ug\L	#	84
65) trans-1,4-dichloro-2-Buten	14.27	75	117429	9.10 ug\L		98
67) Bromobenzene	14.17	156	215667	9.12 ug\L		99
68) 1,1,2,2-Tetrachloroethane	14.22	83	103932	8.99 ug\L		99
69) 1,2,3-Trichloropropane	14.27	75	117429	9.10 ug\L		98
70) n-Propylbenzene	14.29	91	1740739	9.89 ug\L		99
71) 2-Chlorotoluene	14.43	91	942655	9.76 ug\L		99
72) 4-Chlorotoluene	14.58	91	1025178	10.00 ug\L		98
73) 1,3,5-Trimethylbenzene	14.53	105	1125528	9.76 ug\L		98
74) Pentachloroethane	15.05	167	127632	8.90 ug\L		95
75) tert-Butylbenzene	14.98	119	964524	9.66 ug\L		98
76) 1,2,4-Trimethylbenzene	15.05	105	1069799	9.82 ug\L		98

(# = qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\040401\C19236.D Vial: 1
Acq On : 04/04/01 14:56 Operator: JP/VRR
Sample : CCV 10 ppb (V01034,V01028) Inst : VOA-C
Misc : WATER 25ml Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 4 15:19 2001 Quant Results File: 04040125.RES

Quant Method : c:\hpchem\1\data\040401\04040125.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Tue Apr 03 09:48:22 2001
Response via : Initial Calibration
DataAcq Meth : 04040125

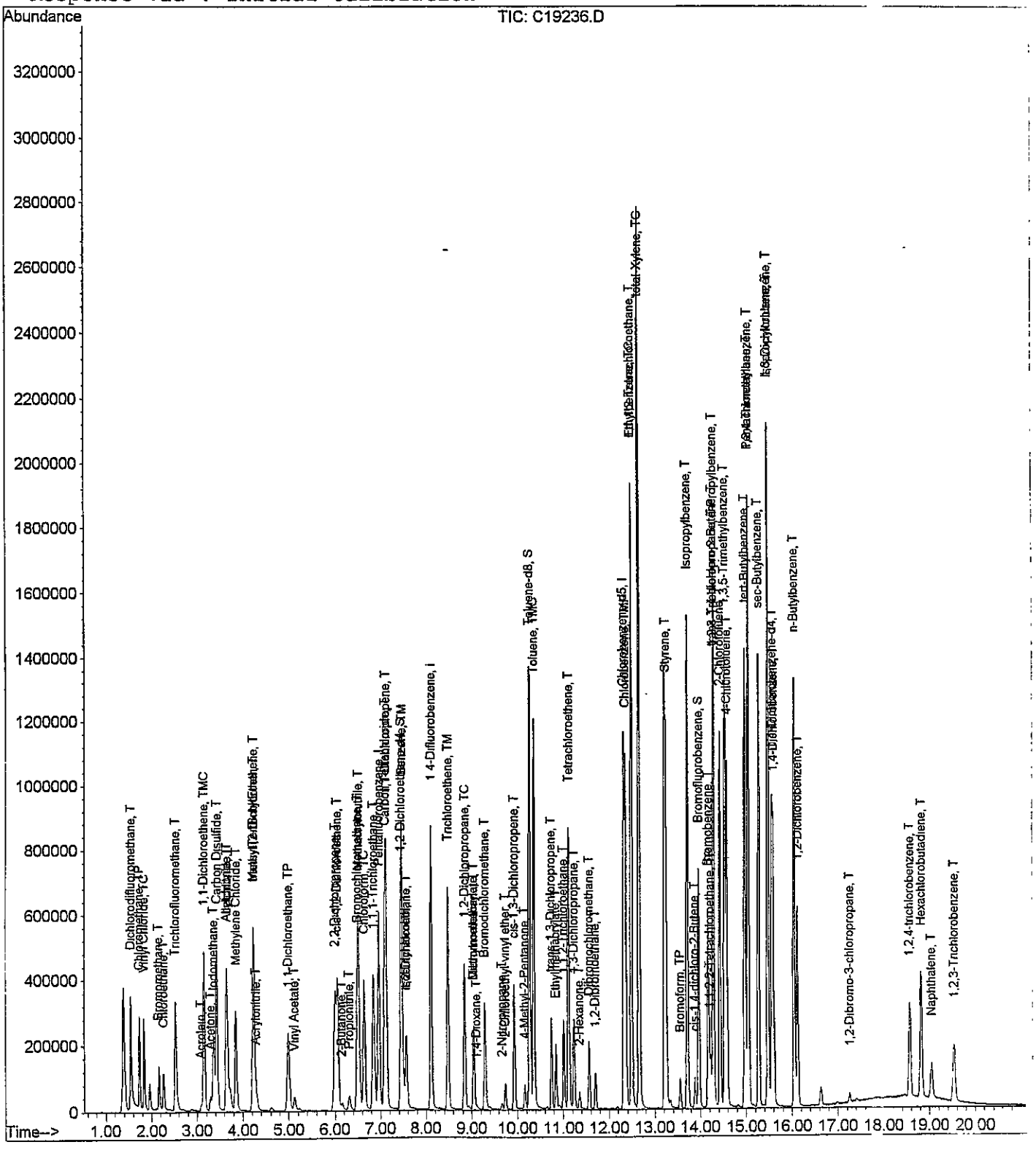
Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
77) sec-Butylbenzene	15.27	105	1442423	9.78	ug\L	99
78) 1,3-Dichlorobenzene	15.47	146	463020	9.37	ug\L	99
79) Isopropyltoluene	15.48	119	1125542	9.89	ug\L	99
80) 1,4-Dichlorobenzene	15.60	146	438929	9.08	ug\L	98
81) 1,2-Dichlorobenzene	16.12	146	346390	9.10	ug\L	98
82) n-Butylbenzene	16.04	91	1068699	9.78	ug\L	100
83) 1,2-Dibromo-3-chloropropan	17.25	75	9734	7.22	ug\L	91
84) 1,2,4-trichlorobenzene	18.56	180	167747	8.27	ug\L	100
85) Hexachlorobutadiene	18.82	225	139187	9.37	ug\L	100
86) Naphthalene	19.05	128	169508	7.69	ug\L	100
87) 1,2,3-Trichlorobenzene	19.54	180	114989	8.22	ug\L	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\040401\C19236.D Vial: 1
Acq On : 04/04/01 14:56 Operator: JP/VRR
Sample : CCV 10 ppb (V01034,V01028) Inst : VOA-C
Misc : WATER 25ml Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 4 15:19 2001 Quant Results File: 04040125.RES

Method : C:\HPCHEM\1\DATA\040401\04040125.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Tue Apr 03 09:48:22 2001
Response via : Initial Calibration



Spike Recovery and RPD Summary Report - WATER

Method : C:\HPCHEM\1\DATA\040401\04040125.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Tue Apr 03 09:48:22 2001
Response via : Initial Calibration

Non-Spiked Sample: C19233.D

	Spike Sample	Spike Duplicate Sample
File ID :	C19242.D	C19243.D
Sample :	AC10502MS 25ml DF=1	AC10502MSD 25ml DF=1
Acq Time:	4 Apr 2001 18:33	4 Apr 2001 18:58

Compound	Sample Conc	Spike Added	Spike Res	Dup Res	Spike %Rec	Dup %Rec	RPD	QC Limits RPD	QC Limits % Rec
1,1-Dichloroethene	0.0	10	10	10	97	98	1	20	88-118
Benzene	0.2	10	10	10	100	100	1	20	83-121
Trichloroethene	0.4	10	10	10	99	99	0	20	68-109
Toluene	0.3	10	10	10	101	100	1	20	85-109
Chlorobenzene	0.0	10	10	10	102	100	1	20	82-110

- Fails Limit Check

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\040401\C19242.D Vial: 14
Acq On : 04/04/01 18:33 Operator: JP/VRR
Sample : AC10502MS 25ml DF=1 Inst : VOA-C
Misc : 27420/C04030125 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 4 18:54 2001 Quant Results File: 04040125.RES

Quant Method : c:\hpchem\1\data\040401\04040125.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Tue Apr 03 09:48:22 2001
Response via : Initial Calibration
DataAcq Meth : 04040125

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Pentafluorobenzene	6.98	168	561261	10.00	ug\L		0.00
45) Chlorobenzene-d5	12.32	117	729706	10.00	ug\L		0.00
61) 1,4-Dichlorobenzene-d4	15.57	152	295861	10.00	ug\L		0.00
88) 1.4-Difluorobenzene	8.12	116	1232	10.00	ug\L		0.00
System Monitoring Compounds							
32) 1,2-Dichloroethane-d4	7.44	65	206104	10.66	ug\L		0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 106.60%				
46) Toluene-d8	10.27	98	1113630	10.28	ug\L		0.00
Spiked Amount 10.000	Range 87 - 104		Recovery = 102.80%				
66) Bromofluorobenzene	13.97	95	345986	10.81	ug\L		0.00
Spiked Amount 10.000	Range 84 - 110		Recovery = 108.10%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.55	85	298142	8.41	ug\L		100
3) Chloromethane	1.75	50	265918	9.10	ug\L		99
4) Vinyl Chloride	1.84	62	245805	9.23	ug\L		98
5) Bromomethane	2.17	94	73615	11.46	ug\L		97
6) Chloroethane	2.27	64	107620	9.00	ug\L		98
7) Trichlorofluoromethane	2.54	101	359819	10.52	ug\L	#	100
8) Acrolein	3.09	56	21130	19.45	ug\L	#	95
9) Acrylonitrile	4.31	53	41341	18.57	ug\L		95
10) 1,1-Dichloroethene	3.16	96	242647	9.70	ug\L		94
11) Acetone	3.30	58	10477	14.98	ug\L		98
12) Iodomethane	3.37	142	326685	9.96	ug\L		95
13) Allylchloride	3.66	39	339608	10.29	ug\L		92
14) Carbon Disulfide	3.44	76	896419	10.05	ug\L		100
15) Acetonitrile	3.66	41	400411	96.63	ug\L		92
16) Methylene Chloride	3.86	86	135618	9.86	ug\L		96
17) trans-1,2-Dichloroethene	4.25	96	249731	9.80	ug\L		98
18) MethylTertButylEther	4.24	73	254720	9.52	ug\L		99
19) 1,1-Dichloroethane	5.01	63	421638	10.04	ug\L		99
20) Vinyl Acetate	5.14	43	103880	8.83	ug\L		98
21) 2,2-Dichloropropane	6.02	77	393275	9.98	ug\L		99
22) cis-1,2-Dichloroethene	6.07	96	245693	9.91	ug\L		96
23) 2-Butanone	6.15	72	7144	11.57	ug\L		82
24) Propionitrile	6.32	54	69548	97.85	ug\L		99
25) Methacrylonitrile	6.52	41	446185	105.04	ug\L		95
26) Bromochloromethane	6.50	128	77721	9.70	ug\L		93
27) Chloroform	6.65	83	456149	10.21	ug\L		99
28) 1,1,1-Trichloroethane	6.85	97	448895	10.27	ug\L		98
29) Carbon Tetrachloride	7.10	119	370021	10.35	ug\L		95

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\040401\C19242.D Vial: 14
Acq On : 04/04/01 18:33 Operator: JP/VRR
Sample : AC10502MS 25ml DF=1 Inst : VOA-C
Misc : 27420/C04030125 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 4 18:54 2001 Quant Results File: 04040125.RES

Quant Method : c:\hpchem\1\data\040401\04040125.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Tue Apr 03 09:48:22 2001
Response via : Initial Calibration
DataAcq Meth : 04040125

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
30) 1,4-Dioxane	9.11	88	10042	185.51 ug\L #	87
31) 1,1-Dichloropropene	7.12	77	128826	10.12 ug\L	97
33) Benzene	7.47	78	985387	10.15 ug\L	100
34) Isobutyl alcohol	7.57	43	36056	188.48 ug\L	94
35) 1,2-Dichloroethane	7.57	62	215606	10.31 ug\L	98
36) Trichloroethene	8.48	95	307694	10.25 ug\L	97
37) 1,2-Dichloropropane	8.84	63	212972	10.00 ug\L	98
38) Dibromomethane	9.05	93	79773	10.28 ug\L	93
39) Methylmethacrylate	9.05	69	55365	10.02 ug\L	94
40) Bromodichloromethane	9.30	83	271983	10.20 ug\L	100
41) 2-Nitropropane	9.67	43	18150	10.55 ug\L	91
42) 2-Chloroethyl-vinyl ether	9.74	63	2251	1.34 ug\L #	75
43) cis-1,3-Dichloropropene	9.93	75	274173	9.79 ug\L	95
44) 4-Methyl-2-Pentanone	10.16	85	12058	10.49 ug\L #	97
47) Toluene	10.36	92	678519	10.42 ug\L	100
48) trans-1,3-Dichloropropene	10.75	75	190038	9.64 ug\L	96
49) Ethylmethacrylate	10.85	69	133686	10.16 ug\L	90
50) 1,1,2-Trichloroethane	11.01	83	94849	10.37 ug\L	99
51) Tetrachloroethene	11.12	164	252213	10.00 ug\L	98
52) 1,3-Dichloropropane	11.24	76	204783	10.03 ug\L	100
53) 2-Hexanone	11.36	43	44951	10.94 ug\L #	85
54) Dibromochloromethane	11.57	129	134804	9.74 ug\L	98
55) 1,2-Dibromoethane	11.71	107	98054	9.82 ug\L	99
56) Chlorobenzene	12.36	112	680272	10.17 ug\L	98
57) 1,1,1,2-Tetrachloroethane	12.49	131	199732	10.15 ug\L	99
58) Ethylbenzene	12.50	91	2608866	20.50 ug\L	99
59) total-Xylene	12.66	106	2056572m	45.27 ug\L	
60) Styrene	13.25	104	683551	10.55 ug\L	91
62) Bromoform	13.56	173	55841	9.18 ug\L	94
63) Isopropylbenzene	13.72	105	2163827	16.33 ug\L	98
64) cis-1,4-dichloro-2-Butene	13.88	75	24336	8.93 ug\L #	82
65) trans-1,4-dichloro-2-Buten	14.27	75	124619	10.73 ug\L #	80
67) Bromobenzene	14.18	156	212573	9.99 ug\L	97
68) 1,1,2,2-Tetrachloroethane	14.22	83	105912	10.17 ug\L	97
69) 1,2,3-Trichloropropane	14.27	75	124619	10.73 ug\L #	77
70) n-Propylbenzene	14.29	91	2586309	16.32 ug\L	99
71) 2-Chlorotoluene	14.42	91	1132790	13.02 ug\L #	87
72) 4-Chlorotoluene	14.58	91	875909	9.49 ug\L #	95
73) 1,3,5-Trimethylbenzene	14.53	105	2284553	22.01 ug\L	97
74) Pentachloroethane	15.05	167	119486	9.25 ug\L	96
75) tert-Butylbenzene	14.98	119	981932	10.93 ug\L	98
76) 1,2,4-Trimethylbenzene	15.06	105	5472538	55.78 ug\L	99

(#) = qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\040401\C19242.D Vial: 14
Acq On : 04/04/01 18:33 Operator: JP/VRR
Sample : AC10502MS 25ml DF=1 Inst : VOA-C
Misc : 27420/C04030125 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 4 18:54 2001 Quant Results File: 04040125.RES

Quant Method : c:\hpchem\1\data\040401\04040125.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Tue Apr 03 09:48:22 2001
Response via : Initial Calibration
DataAcq Meth : 04040125

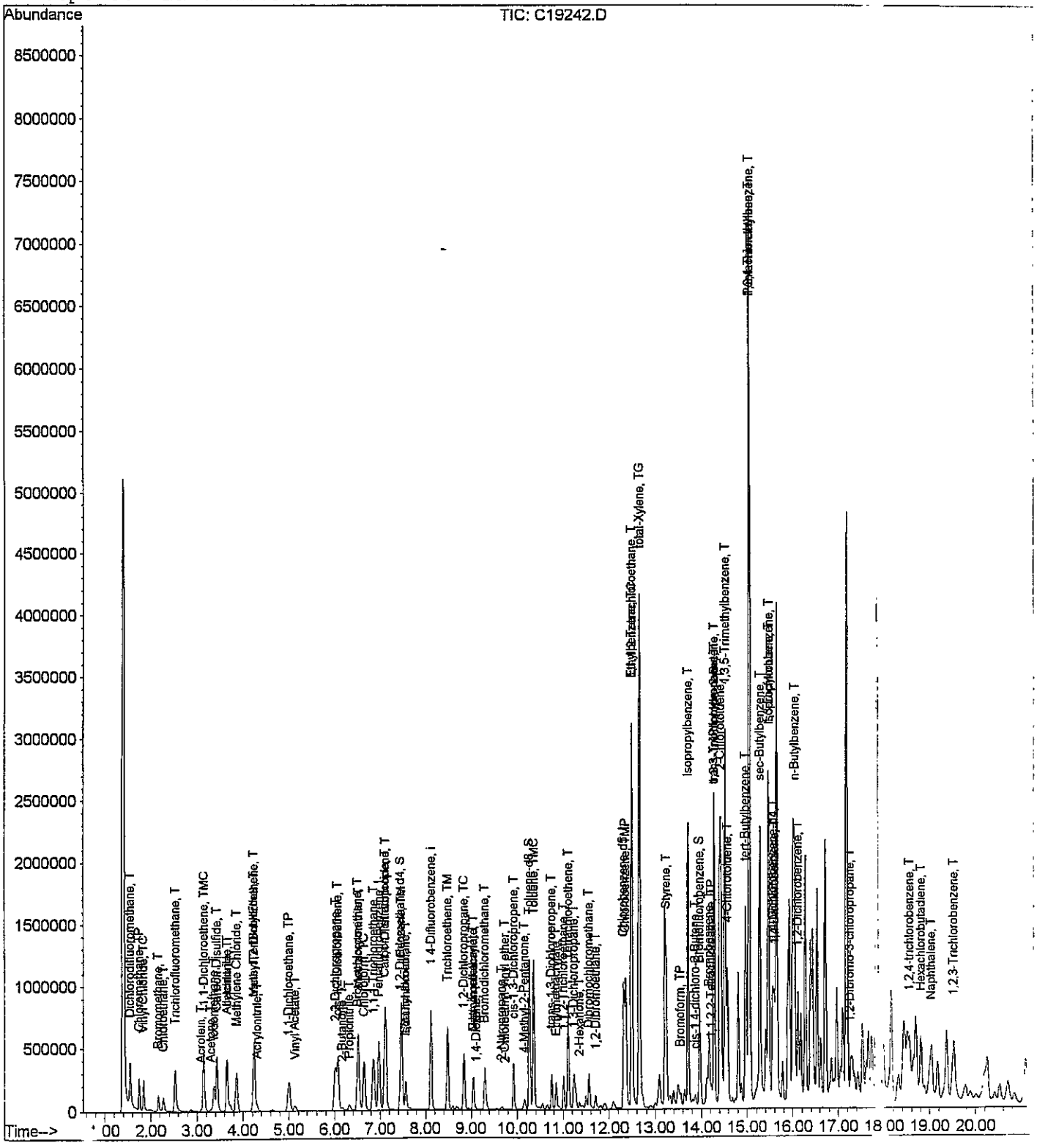
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
77)	sec-Butylbenzene	15.28	105	2185596	16.46	ug\L		99
78)	1,3-Dichlorobenzene	15.47	146	447393	10.05	ug\L		99
79)	Isopropyltoluene	15.48	119	1554326	15.17	ug\L		99
80)	1,4-Dichlorobenzene	15.60	146	424095	9.74	ug\L		98
81)	1,2-Dichlorobenzene	16.12	146	343070	10.01	ug\L		97
82)	n-Butylbenzene	16.05	91	1754320	17.84	ug\L	#	51
83)	1,2-Dibromo-3-chloropropan	17.26	75	12426	10.40	ug\L		84
84)	1,2,4-trichlorobenzene	18.56	180	200802	11.00	ug\L		100
85)	Hexachlorobutadiene	18.81	225	155148	11.83	ug\L		100
86)	Naphthalene	19.05	128	581707	28.60	ug\L		100
87)	1,2,3-Trichlorobenzene	19.53	180	152727	12.12	ug\L	#	84

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\040401\C19242.D Vial: 14
Acq On : 04/04/01 18:33 Operator: JP/VRR
Sample : AC10502MS 25ml DF=1 Inst : VOA-C
Misc : 27420/C04030125 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 4 18:54 2001 Quant Results File: 04040125.RES

Method : C:\HPCHEM\1\DATA\040401\04040125.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Tue Apr 03 09:48:22 2001
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\040401\C19243.D Vial: 15
Acq On : 04/04/01 18:58 Operator: JP/VRR
Sample : AC10502MSD 25ml DF=1 Inst : VOA-C
Misc : 27420/C04030125 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 4 19:19 2001 Quant Results File: 04040125.RES

Quant Method : c:\hpchem\1\data\040401\04040125.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Tue Apr 03 09:48:22 2001
Response via : Initial Calibration
DataAcq Meth : 04040125

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	6.97	168	598826	10.00	ug\L	0.00
45) Chlorobenzene-d5	12.33	117	798303	10.00	ug\L	0.00
61) 1,4-Dichlorobenzene-d4	15.56	152	320702	10.00	ug\L	0.00
88) 1.4-Difluorobenzene	8.12	116	1240	10.00	ug\L	0.00
System Monitoring Compounds						
32) 1,2-Dichloroethane-d4	7.44	65	190711	9.24	ug\L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 92.40%			
46) Toluene-d8	10.27	98	1098396	9.27	ug\L	0.00
Spiked Amount 10.000	Range 87 - 104		Recovery = 92.70%			
66) Bromofluorobenzene	13.96	95	332656	9.59	ug\L	0.00
Spiked Amount 10.000	Range 84 - 110		Recovery = 95.90%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.56	85	304117	8.04	ug\L	99
3) Chloromethane	1.75	50	270946	8.69	ug\L	99
4) Vinyl Chloride	1.84	62	259571	9.14	ug\L	99
5) Bromomethane	2.17	94	69983	10.12	ug\L	99
6) Chloroethane	2.28	64	113695	8.91	ug\L	98
7) Trichlorofluoromethane	2.54	101	367664	10.08	ug\L #	100
8) Acrolein	3.09	56	22882	19.74	ug\L #	95
9) Acrylonitrile	4.30	53	47287	19.91	ug\L	96
10) 1,1-Dichloroethene	3.15	96	260910	9.78	ug\L	98
11) Acetone	3.30	58	10599	14.13	ug\L	100
12) Iodomethane	3.37	142	360812	10.31	ug\L	96
13) Allylchloride	3.66	39	352187	10.00	ug\L	91
14) Carbon Disulfide	3.44	76	945483	9.94	ug\L	99
15) Acetonitrile	3.66	41	490305	110.91	ug\L	94
16) Methylene Chloride	3.86	86	143049	9.75	ug\L	99
17) trans-1,2-Dichloroethene	4.24	96	267692	9.85	ug\L	97
18) MethylTertButylEther	4.24	73	280235	9.82	ug\L	100
19) 1,1-Dichloroethane	5.00	63	444173	9.91	ug\L	99
20) Vinyl Acetate	5.13	43	112515	8.96	ug\L	96
21) 2,2-Dichloropropane	6.01	77	421677	10.03	ug\L	99
22) cis-1,2-Dichloroethene	6.07	96	257984	9.76	ug\L	95
23) 2-Butanone	6.17	72	7899	11.99	ug\L	79
24) Propionitrile	6.32	54	74462	98.19	ug\L	99
25) Methacrylonitrile	6.52	41	462134	101.97	ug\L	99
26) Bromochloromethane	6.49	128	82007	9.59	ug\L	95
27) Chloroform	6.65	83	473962	9.94	ug\L	98
28) 1,1,1-Trichloroethane	6.85	97	463486	9.94	ug\L	99
29) Carbon Tetrachloride	7.10	119	384862	10.09	ug\L	97

(#) = qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\040401\C19243.D Vial: 15
Acq On : 04/04/01 18:58 Operator: JP/VRR
Sample : AC10502MSD 25ml DF=1 Inst : VOA-C
Misc : 27420/C04030125 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 4 19:19 2001 Quant Results File: 04040125.RES

Quant Method : c:\hpchem\1\data\040401\04040125.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Tue Apr 03 09:48:22 2001
Response via : Initial Calibration
DataAcq Meth : 04040125

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
30) 1,4-Dioxane	9.10	88	11916	203.73 ug\L #	90
31) 1,1-Dichloropropene	7.12	77	140049	10.31 ug\L	99
33) Benzene	7.47	78	1058047	10.21 ug\L	100
34) Isobutyl alcohol	7.57	43	37487	183.66 ug\L	93
35) 1,2-Dichloroethane	7.56	62	221933	9.95 ug\L	100
36) Trichloroethene	8.48	95	328630	10.26 ug\L	97
37) 1,2-Dichloropropane	8.85	63	230057	10.12 ug\L	99
38) Dibromomethane	9.05	93	83336	10.06 ug\L	97
39) Methylmethacrylate	9.05	69	60671	10.29 ug\L	98
40) Bromodichloromethane	9.30	83	282907	9.94 ug\L	100
41) 2-Nitropropane	9.67	43	19395	10.57 ug\L	88
42) 2-Chloroethyl-vinyl ether	9.73	63	1861	1.24 ug\L #	56
43) cis-1,3-Dichloropropene	9.93	75	303273	10.15 ug\L	97
44) 4-Methyl-2-Pentanone	10.17	85	13034	10.63 ug\L #	96
47) Toluene	10.37	92	732027	10.27 ug\L	100
48) trans-1,3-Dichloropropene	10.75	75	213374	9.89 ug\L	99
49) Ethylmethacrylate	10.85	69	154144	10.70 ug\L	96
50) 1,1,2-Trichloroethane	11.01	83	101127	10.11 ug\L	98
51) Tetrachloroethene	11.12	164	271646	9.84 ug\L	99
52) 1,3-Dichloropropane	11.24	76	223902	10.03 ug\L	97
53) 2-Hexanone	11.36	43	49448	11.01 ug\L #	86
54) Dibromochloromethane	11.57	129	147143	9.72 ug\L	98
55) 1,2-Dibromoethane	11.70	107	108243	9.90 ug\L	100
56) Chlorobenzene	12.36	112	735225	10.04 ug\L	98
57) 1,1,1,2-Tetrachloroethane	12.49	131	219260	10.18 ug\L	97
58) Ethylbenzene	12.49	91	2752687	19.77 ug\L	100
59) total-Xylene	12.66	106	2204662m	44.36 ug\L	
60) Styrene	13.25	104	735723	10.38 ug\L	94
62) Bromoform	13.56	173	57780	8.77 ug\L	98
63) Isopropylbenzene	13.72	105	2259342	15.73 ug\L	99
64) cis-1,4-dichloro-2-Butene	13.88	75	25705	8.73 ug\L #	84
65) trans-1,4-dichloro-2-Buten	14.27	75	129870	10.32 ug\L #	78
67) Bromobenzene	14.17	156	227949	9.88 ug\L	96
68) 1,1,2,2-Tetrachloroethane	14.22	83	110977	9.83 ug\L	98
69) 1,2,3-Trichloropropane	14.27	75	129870	10.32 ug\L #	76
70) n-Propylbenzene	14.29	91	2724734	15.86 ug\L	98
71) 2-Chlorotoluene	14.42	91	1196914	12.70 ug\L #	88
72) 4-Chlorotoluene	14.58	91	950453	9.50 ug\L	96
73) 1,3,5-Trimethylbenzene	14.53	105	2367123	21.04 ug\L	99
74) Pentachloroethane	15.06	167	130857	9.35 ug\L	97
75) tert-Butylbenzene	14.98	119	1034536	10.62 ug\L	99
76) 1,2,4-Trimethylbenzene	15.06	105	5713532	53.73 ug\L	99

(#) = qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\040401\C19243.D Vial: 15
Acq On : 04/04/01 18:58 Operator: JP/VRR
Sample : AC10502MSD 25ml DF=1 Inst : VOA-C
Misc : 27420/C04030125 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 4 19:19 2001 Quant Results File: 04040125.RES

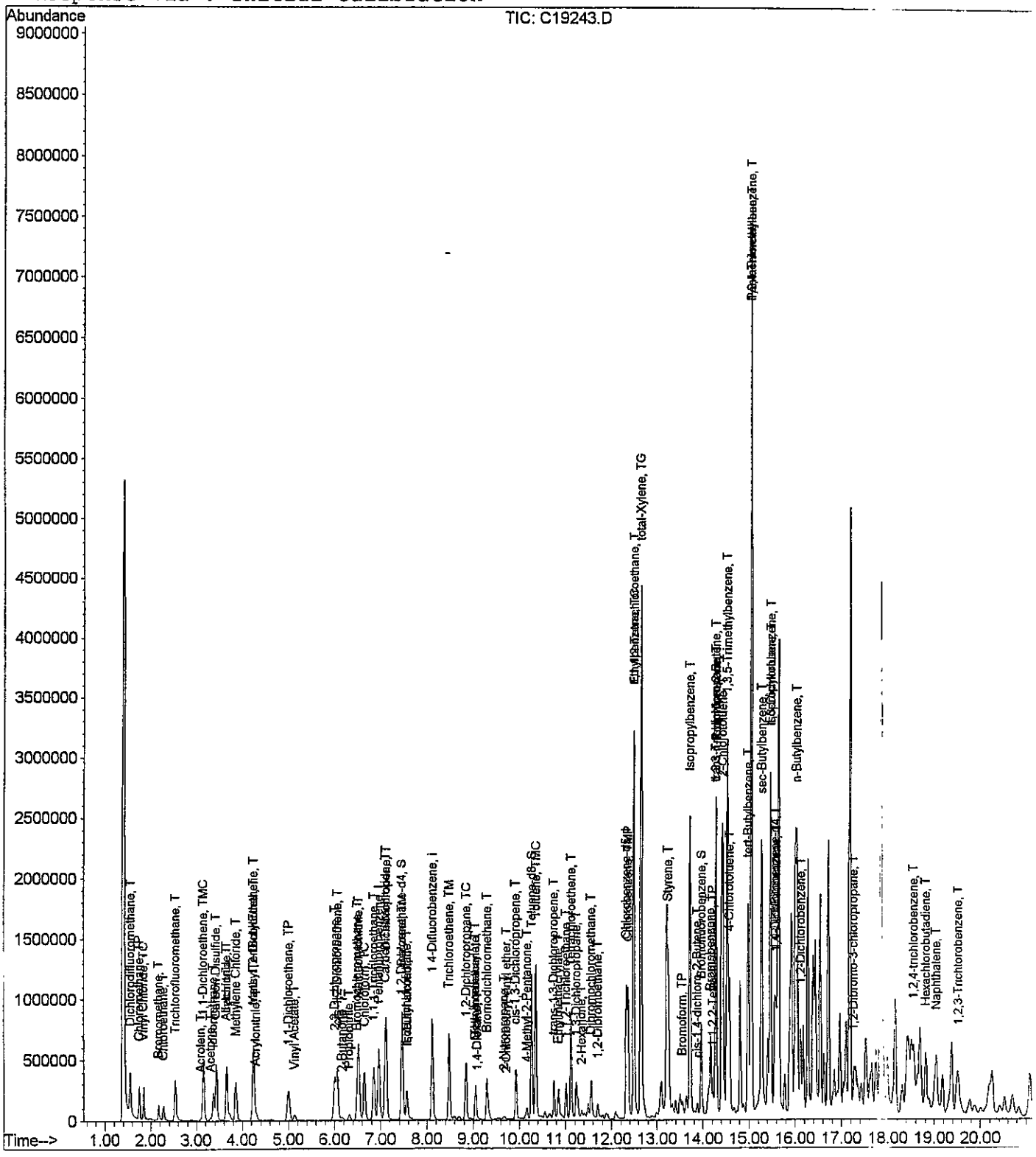
Quant Method : c:\hpchem\1\data\040401\04040125.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Tue Apr 03 09:48:22 2001
Response via : Initial Calibration
DataAcq Meth : 04040125

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
77)	sec-Butylbenzene	15.28	105	2290896	15.92	ug\L		99
78)	1,3-Dichlorobenzene	15.47	146	488733	10.13	ug\L		98
79)	Isopropyltoluene	15.48	119	1646529	14.82	ug\L		99
80)	1,4-Dichlorobenzene	15.60	146	465597	9.87	ug\L		99
81)	1,2-Dichlorobenzene	16.12	146	378816	10.20	ug\L		99
82)	n-Butylbenzene	16.04	91	1848248	17.33	ug\L	#	51
83)	1,2-Dibromo-3-chloropropan	17.26	75	12440	9.58	ug\L		99
84)	1,2,4-trichlorobenzene	18.56	180	224112	11.33	ug\L		100
85)	Hexachlorobutadiene	18.82	225	164750	11.57	ug\L		100
86)	Naphthalene	19.05	128	660609	29.95	ug\L		100
87)	1,2,3-Trichlorobenzene	19.53	180	167848	12.29	ug\L	#	88

(#) = qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\040401\C19243.D Vial: 15
Acq On : 04/04/01 18:58 Operator: JP/VRR
Sample : AC10502MSD 25ml DF=1 Inst : VOA-C
Misc : 27420/C04030125 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 4 19:19 2001 Quant Results File: 04040125.RES

Method : C:\HPCHEM\1\DATA\040401\04040125.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Tue Apr 03 09:48:22 2001
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\040301\C19233.D Vial: 5
Acq On : 04/03/01 19:12 Operator: JP/VRR
Sample : AC10502 25ml DF=1 Inst : VOA-C
Misc : 27420/C04030125 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 4 10:00 2001 Quant Results File: 04030125.RES

Quant Method : c:\hpchem\1\data\040301\04030125.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Tue Apr 03 09:48:22 2001
Response via : Initial Calibration
DataAcq Meth : 04030125

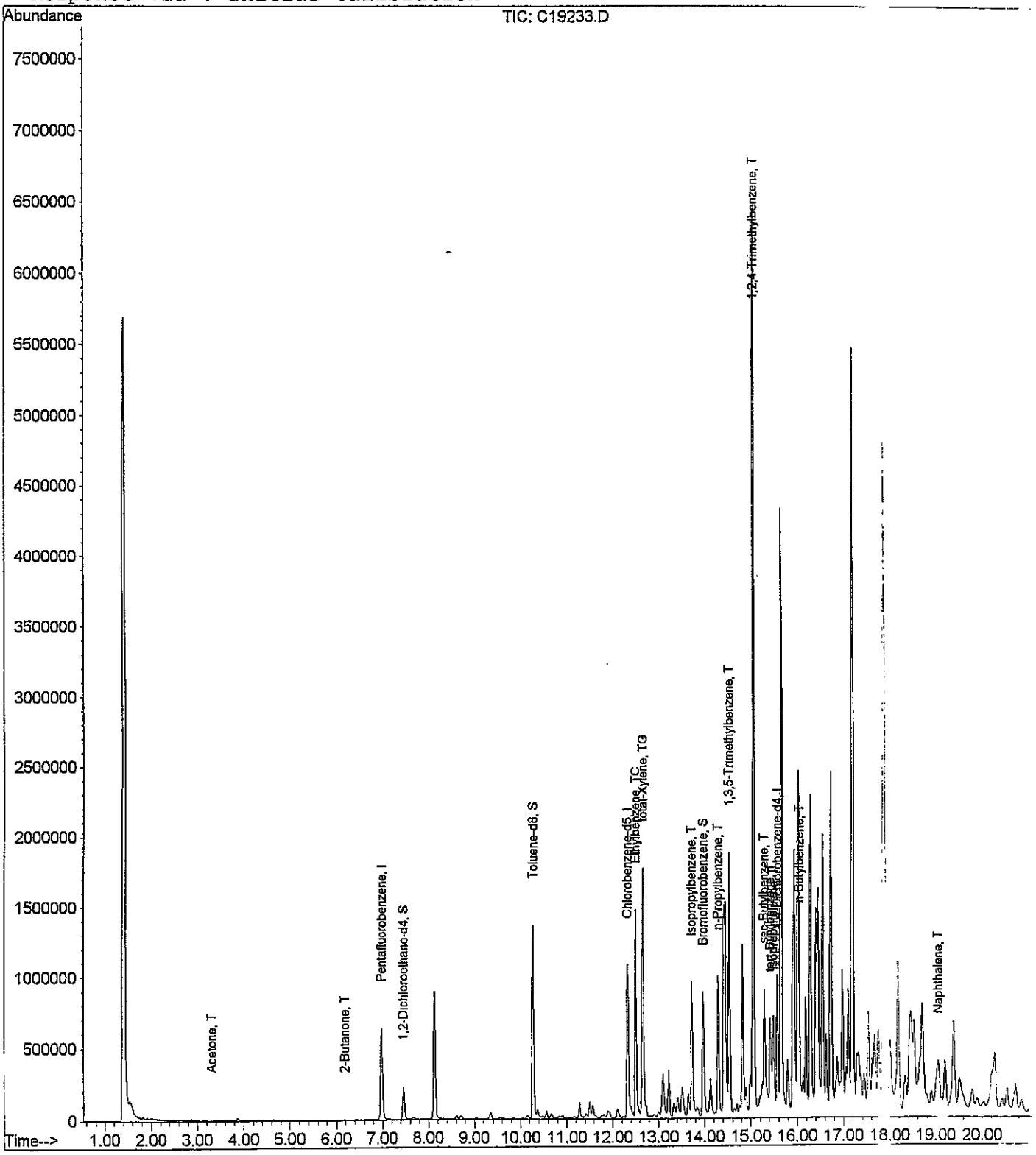
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	6.98	168	662706	10.00	ug\L	0.02
45) Chlorobenzene-d5	12.34	117	835963	10.00	ug\L	0.00
61) 1,4-Dichlorobenzene-d4	15.57	152	340849	10.00	ug\L	0.00
88) 1.4-Difluorobenzene	0.00	116	0m	10.00	ug\L	-8.12
System Monitoring Compounds						
32) 1,2-Dichloroethane-d4	7.46	65	236164	10.34	ug\L	0.02
Spiked Amount 10.000	Range 80 - 120		Recovery = 103.40%			
46) Toluene-d8	10.28	98	1297184	10.45	ug\L	0.00
Spiked Amount 10.000	Range 87 - 104		Recovery = 104.50%#			
66) Bromofluorobenzene	13.98	95	383277	10.40	ug\L	0.00
Spiked Amount 10.000	Range 84 - 110		Recovery = 104.00%			
Target Compounds						Qvalue
11) Acetone	3.32	58	4571	4.58	ug\L	96
23) 2-Butanone	6.19	72	1989	2.73	ug\L #	98
58) Ethylbenzene	12.51	91	1459657	10.01	ug\L	100
59) total-Xylene	12.67	106	748655m	14.39	ug\L	
63) Isopropylbenzene	13.73	105	850564	5.57	ug\L	98
70) n-Propylbenzene	14.30	91	992275	5.44	ug\L	99
73) 1,3,5-Trimethylbenzene	14.54	105	1360424	11.38	ug\L	99
75) tert-Butylbenzene	15.42	119	494040	4.77	ug\L	98
76) 1,2,4-Trimethylbenzene	15.06	105	5191950	45.94	ug\L	99
77) sec-Butylbenzene	15.29	105	823459	5.38	ug\L	94
79) Isopropyltoluene	15.49	119	477848	4.05	ug\L	100
82) n-Butylbenzene	16.05	91	701308	6.19	ug\L #	51
86) Naphthalene	19.06	128	391767	16.82	ug\L	100

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\040301\C19233.D Vial: 5
Acq On : 04/03/01 19:12 Operator: JP/VRR
Sample : AC10502 25ml DF=1 Inst : VOA-C
Misc : 27420/C04030125 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 4 10:00 2001 Quant Results File: 04030125.RES

Method : C:\HPCHEM\1\DATA\040301\04030125.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Tue Apr 03 09:48:22 2001
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\040401\C19238.D Vial: 3
Acq On : 04/04/01 16:22 Operator: JP/VRR
Sample : QVWLCS0404012 25ml DF=1 Inst : VOA-C
Misc : QC/LAB SPIKE Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 4 16:44 2001 Quant Results File: 04040125.RES

Quant Method : c:\hpchem\1\data\040401\04040125.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Tue Apr 03 09:48:22 2001
Response via : Initial Calibration
DataAcq Meth : 04040125

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Pentafluorobenzene	6.97	168	623940	10.00	ug\L		0.00
45) Chlorobenzene-d5	12.32	117	821073	10.00	ug\L		0.00
61) 1,4-Dichlorobenzene-d4	15.56	152	331101	10.00	ug\L		0.00
88) 1.4-Difluorobenzene	8.12	116	1590	10.00	ug\L		0.00
System Monitoring Compounds							
32) 1,2-Dichloroethane-d4	7.44	65	205159	9.54	ug\L		0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 95.40%				
46) Toluene-d8	10.27	98	1155753	9.48	ug\L		0.00
Spiked Amount 10.000	Range 87 - 104		Recovery = 94.80%				
66) Bromofluorobenzene	13.96	95	349605	9.76	ug\L		0.00
Spiked Amount 10.000	Range 84 - 110		Recovery = 97.60%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.56	85	335755	8.52	ug\L		100
3) Chloromethane	1.74	50	301174	9.28	ug\L		99
4) Vinyl Chloride	1.84	62	281031	9.49	ug\L		99
5) Bromomethane	2.16	94	70572	9.76	ug\L		98
6) Chloroethane	2.27	64	126206	9.49	ug\L		98
7) Trichlorofluoromethane	2.53	101	376287	9.90	ug\L	#	100
8) Acrolein	3.08	56	21715	17.98	ug\L	#	100
9) Acrylonitrile	4.31	53	40724	16.46	ug\L		90
10) 1,1-Dichloroethene	3.15	96	271798	9.78	ug\L		97
11) Acetone	3.31	58	6028	7.02	ug\L		82
12) Iodomethane	3.36	142	368368	10.10	ug\L		97
13) Allylchloride	3.65	39	373258	10.17	ug\L		93
14) Carbon Disulfide	3.43	76	993257	10.02	ug\L		100
15) Acetonitrile	3.65	41	446466	96.92	ug\L		94
16) Methylene Chloride	3.85	86	140085	9.16	ug\L		96
17) trans-1,2-Dichloroethene	4.24	96	276641	9.77	ug\L		97
18) MethylTertButylEther	4.23	73	262356	8.82	ug\L		100
19) 1,1-Dichloroethane	4.99	63	451898	9.68	ug\L		99
20) Vinyl Acetate	5.12	43	103716	7.93	ug\L		98
21) 2,2-Dichloropropane	6.01	77	454587	10.38	ug\L		99
22) cis-1,2-Dichloroethene	6.06	96	271764	9.86	ug\L		98
23) 2-Butanone	6.15	72	6360	9.26	ug\L	#	89
24) Propionitrile	6.31	54	71202	90.11	ug\L		97
25) Methacrylonitrile	6.52	41	452170	95.76	ug\L		98
26) Bromochloromethane	6.49	128	84946	9.54	ug\L		98
27) Chloroform	6.65	83	486964	9.80	ug\L		99
28) 1,1,1-Trichloroethane	6.85	97	482220	9.92	ug\L		98
29) Carbon Tetrachloride	7.10	119	401209	10.09	ug\L		96

(#) = qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\040401\C19238.D Vial: 3
Acq On : 04/04/01 16:22 Operator: JP/VRR
Sample : QVWLCS0404012 25ml DF=1 Inst : VOA-C
Misc : QC/LAB SPIKE Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 4 16:44 2001 Quant Results File: 04040125.RES

Quant Method : c:\hpchem\1\data\040401\04040125.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Tue Apr 03 09:48:22 2001
Response via : Initial Calibration
DataAcq Meth : 04040125

Compound	R.T.	QIon	Response	Conc Unit		Qvalue
30) 1,4-Dioxane	9.10	88	11419	189.23 ug\L	#	86
31) 1,1-Dichloropropene	7.12	77	142019	10.04 ug\L		99
33) Benzene	7.47	78	1056342	9.78 ug\L		100
34) Isobutyl alcohol	7.57	43	33276	156.47 ug\L		88
35) 1,2-Dichloroethane	7.57	62	222141	9.56 ug\L		100
36) Trichloroethene	8.48	95	326233	9.78 ug\L		99
37) 1,2-Dichloropropane	8.84	63	223414	9.43 ug\L		100
38) Dibromomethane	9.04	93	83202	9.64 ug\L		95
39) Methylmethacrylate	9.04	69	54578	8.88 ug\L		97
40) Bromodichloromethane	9.30	83	282955	9.54 ug\L		100
41) 2-Nitropropane	9.67	43	14396	7.53 ug\L		93
42) 2-Chloroethyl-vinyl ether	9.75	63	40876	8.37 ug\L		97
43) cis-1,3-Dichloropropene	9.93	75	300416	9.65 ug\L		97
44) 4-Methyl-2-Pentanone	10.17	85	10972	8.59 ug\L	#	96
47) Toluene	10.36	92	714841	9.75 ug\L		100
48) trans-1,3-Dichloropropene	10.75	75	208331	9.39 ug\L		98
49) Ethylmethacrylate	10.85	69	131452	8.87 ug\L		98
50) 1,1,2-Trichloroethane	11.02	83	96777	9.40 ug\L		99
51) Tetrachloroethene	11.13	164	276030	9.72 ug\L		98
52) 1,3-Dichloropropane	11.23	76	214756	9.35 ug\L		99
53) 2-Hexanone	11.36	43	41037	8.88 ug\L		98
54) Dibromochloromethane	11.56	129	145548	9.34 ug\L		98
55) 1,2-Dibromoethane	11.70	107	105292	9.37 ug\L		99
56) Chlorobenzene	12.36	112	752616	10.00 ug\L		99
57) 1,1,1,2-Tetrachloroethane	12.50	131	217125	9.81 ug\L		100
58) Ethylbenzene	12.50	91	1468347	10.26 ug\L		99
59) total-Xylene	12.66	106	1535054m	30.03 ug\L		
60) Styrene	13.25	104	732695	10.05 ug\L		97
62) Bromoform	13.56	173	58054	8.53 ug\L		96
63) Isopropylbenzene	13.72	105	1522095	10.26 ug\L		99
64) cis-1,4-dichloro-2-Butene	13.89	75	25045	8.32 ug\L	#	87
65) trans-1,4-dichloro-2-Buten	14.28	75	122153	9.40 ug\L		98
67) Bromobenzene	14.17	156	228800	9.60 ug\L		97
68) 1,1,2,2-Tetrachloroethane	14.22	83	106833	9.17 ug\L		99
69) 1,2,3-Trichloropropane	14.28	75	122153	9.40 ug\L		100
70) n-Propylbenzene	14.29	91	1885320	10.63 ug\L		98
71) 2-Chlorotoluene	14.43	91	1012565	10.40 ug\L		99
72) 4-Chlorotoluene	14.58	91	1090891	10.56 ug\L		98
73) 1,3,5-Trimethylbenzene	14.54	105	1199257	10.33 ug\L		98
74) Pentachloroethane	15.06	167	137268	9.50 ug\L		96
75) tert-Butylbenzene	14.98	119	1051844	10.46 ug\L		99
76) 1,2,4-Trimethylbenzene	15.05	105	1144430	10.42 ug\L		98

(#) = qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\040401\C19238.D Vial: 3
Acq On : 04/04/01 16:22 Operator: JP/VRR
Sample : QVWLCS0404012 25ml DF=1 Inst : VOA-C
Misc : QC/LAB SPIKE Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 4 16:44 2001 Quant Results File: 04040125.RES

Quant Method : c:\hpchem\1\data\040401\04040125.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Tue Apr 03 09:48:22 2001
Response via : Initial Calibration
DataAcq Meth : 04040125

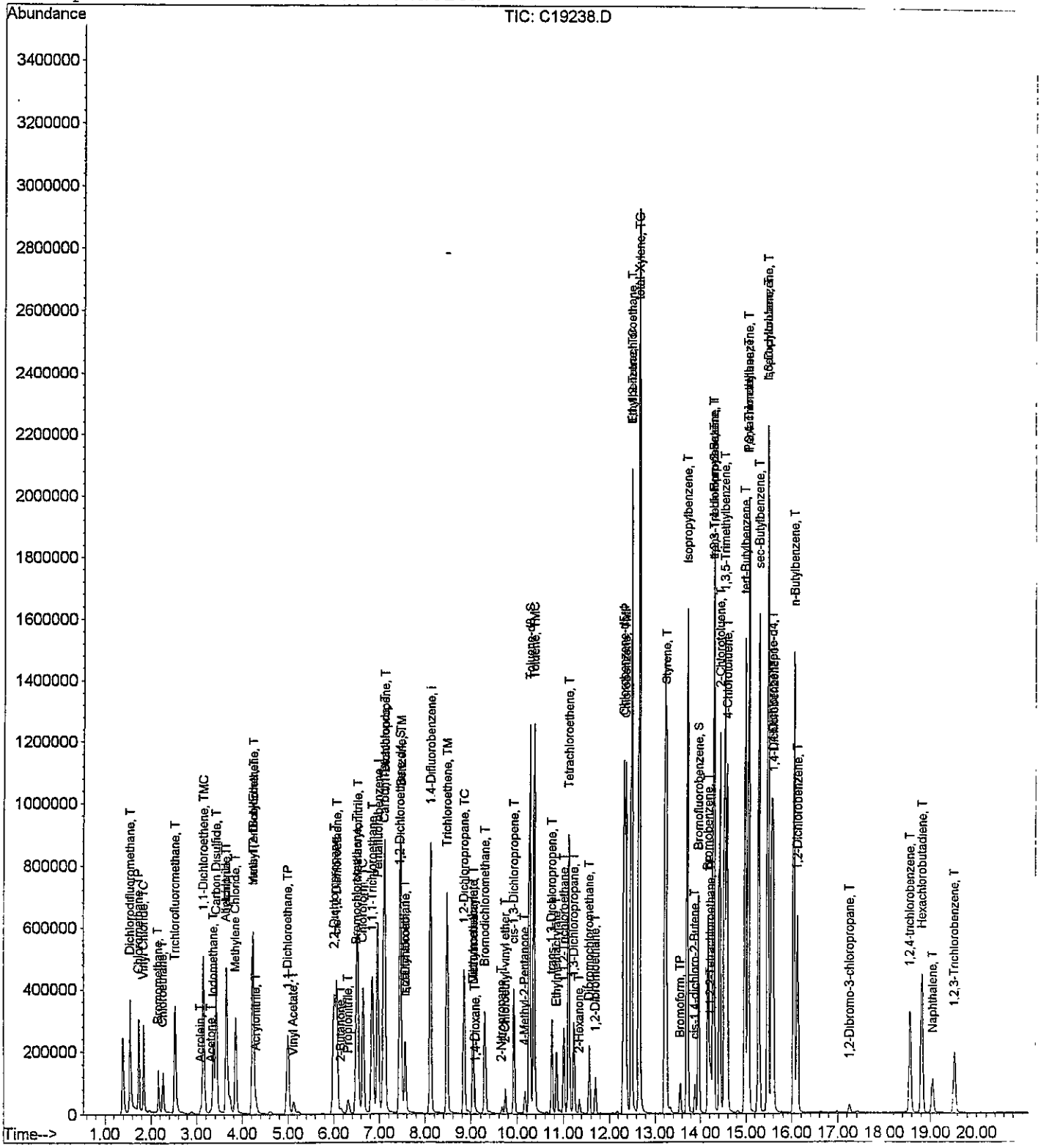
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
77)	sec-Butylbenzene	15.28	105	1588193	10.69	ug\L	98
78)	1,3-Dichlorobenzene	15.47	146	499401	10.03	ug\L	99
79)	Isopropyltoluene	15.48	119	1212523	10.57	ug\L	99
80)	1,4-Dichlorobenzene	15.60	146	474672	9.75	ug\L	99
81)	1,2-Dichlorobenzene	16.12	146	371337	9.68	ug\L	99
82)	n-Butylbenzene	16.05	91	1172670	10.65	ug\L	99
83)	1,2-Dibromo-3-chloropropan	17.25	75	9796	7.21	ug\L	95
84)	1,2,4-trichlorobenzene	18.57	180	184982	9.06	ug\L	100
85)	Hexachlorobutadiene	18.82	225	160882	10.89	ug\L	100
86)	Naphthalene	19.05	128	174443	7.85	ug\L	100
87)	1,2,3-Trichlorobenzene	19.53	180	125166	8.88	ug\L	100

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\040401\C19238.D Vial: 3
Acq On : 04/04/01 16:22 Operator: JP/VRR
Sample : QVWLCS0404012 25ml DF=1 Inst : VOA-C
Misc : QC/LAB SPIKE Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 4 16:44 2001 Quant Results File: 04040125.RES

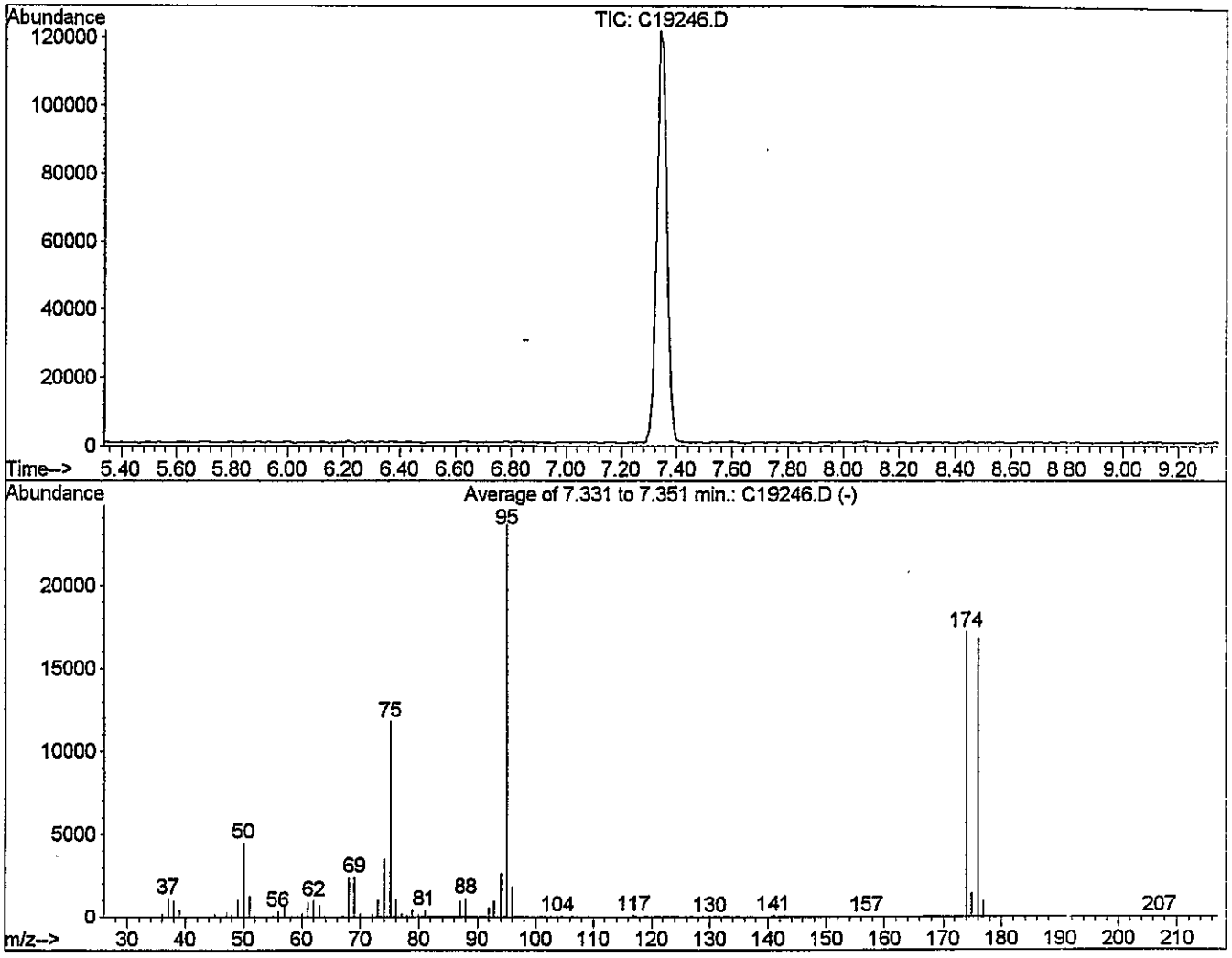
Method : C:\HPCHEM\1\DATA\040401\04040125.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Tue Apr 03 09:48:22 2001
Response via : Initial Calibration



BFB

Data File : C:\HPCHEM\1\DATA\040501\C19246.D
Acq On : 04/05/01 13:29
Sample : BFB 50ng
Misc :
MS Integration Params: rteint.p
Method : C:\HPCHEM\1\METHODS\BFB01.M (RTE Integrator)
Title :

Vial: 1
Operator: JP/VRR
Inst : VOA-C
Multiplr: 1.00



AutoFind: Scans 620, 621, 622; Background Corrected with Scan 613

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	18.9	4459	PASS
75	95	30	66	50.1	11805	PASS
95	95	100	100	100.0	23579	PASS
96	95	5	9	7.7	1811	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	72.9	17192	PASS
175	174	4	9	8.3	1429	PASS
176	174	93	101	97.9	16823	PASS
177	176	5	9	5.8	970	PASS

C19246.D BFB01.M Thu Apr 05 13:42:10 2001 INST:VOA-C

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\040501\C19247.D Vial: 1
Acq On : 04/05/01 13:51 Operator: JP/VRR
Sample : CCV 10 ppb (V01034,V01028) Inst : VOA-C
Misc : WATER 25ml Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 5 14:13 2001 Quant Results File: 04050125.RES

Quant Method : C:\HPCHEM\1\DATA\040501\04050125.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Tue Apr 03 09:48:22 2001
Response via : Initial Calibration
DataAcq Meth : 04050125

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Pentafluorobenzene	6.96	168	499425	10.00	ug\L		0.00
45) Chlorobenzene-d5	12.31	117	695884	10.00	ug\L		-0.01
61) 1,4-Dichlorobenzene-d4	15.55	152	274442	10.00	ug\L		-0.02
88) 1.4-Difluorobenzene	8.11	116	1287	10.00	ug\L		0.00
System Monitoring Compounds							
32) 1,2-Dichloroethane-d4	7.43	65	178231	10.36	ug\L		0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 103.60%				
46) Toluene-d8	10.26	98	1046789	10.13	ug\L		-0.01
Spiked Amount 10.000	Range 87 - 104		Recovery = 101.30%				
66) Bromofluorobenzene	13.96	95	320489	10.80	ug\L		-0.01
Spiked Amount 10.000	Range 84 - 110		Recovery = 108.00%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.55	85	259015	8.21	ug\L		100
3) Chloromethane	1.74	50	263971	10.16	ug\L		100
4) Vinyl Chloride	1.84	62	230257	9.72	ug\L		98
5) Bromomethane	2.16	94	68140	11.96	ug\L		97
6) Chloroethane	2.27	64	91025	8.55	ug\L		98
7) Trichlorofluoromethane	2.53	101	293181	9.64	ug\L	#	100
8) Acrolein	3.08	56	19049	19.70	ug\L	#	98
9) Acrylonitrile	4.30	53	39485	19.94	ug\L		98
10) 1,1-Dichloroethene	3.15	96	223082	10.02	ug\L		99
11) Acetone	3.30	58	5135	7.57	ug\L		96
12) Iodomethane	3.36	142	269836	9.25	ug\L		98
13) Allylchloride	3.64	39	298719	10.17	ug\L		98
14) Carbon Disulfide	3.43	76	772600	9.74	ug\L		100
15) Acetonitrile	3.64	41	387374	105.06	ug\L		99
16) Methylene Chloride	3.85	86	120551	9.85	ug\L		99
17) trans-1,2-Dichloroethene	4.23	96	231375	10.21	ug\L		98
18) MethylTertButylEther	4.22	73	234070	9.83	ug\L		99
19) 1,1-Dichloroethane	4.98	63	381348	10.20	ug\L		99
20) Vinyl Acetate	5.11	43	87893	8.39	ug\L		98
21) 2,2-Dichloropropane	6.00	77	359827	10.27	ug\L		99
22) cis-1,2-Dichloroethene	6.05	96	224020	10.16	ug\L		97
23) 2-Butanone	6.14	72	4994	9.09	ug\L		74
24) Propionitrile	6.31	54	60725	96.01	ug\L	#	98
25) Methacrylonitrile	6.51	41	393202	104.03	ug\L		98
26) Bromochloromethane	6.48	128	70659	9.91	ug\L		97
27) Chloroform	6.64	83	395322	9.94	ug\L		99
28) 1,1,1-Trichloroethane	6.84	97	381991	9.82	ug\L		99
29) Carbon Tetrachloride	7.09	119	311425	9.79	ug\L		98

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\040501\C19247.D Vial: 1
Acq On : 04/05/01 13:51 Operator: JP/VRR
Sample : CCV 10 ppb (V01034,V01028) Inst : VOA-C
Misc : WATER 25ml Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 5 14:13 2001 Quant Results File: 04050125.RES

Quant Method : C:\HPCHEM\1\DATA\040501\04050125.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Tue Apr 03 09:48:22 2001
Response via : Initial Calibration
DataAcq Meth : 04050125

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
30) 1,4-Dioxane	9.09	88	8944	185.66 ug\L #	78
31) 1,1-Dichloropropene	7.11	77	116362	10.27 ug\L	99
33) Benzene	7.45	78	886677	10.26 ug\L	100
34) Isobutyl alcohol	7.56	43	34804	204.46 ug\L #	86
35) 1,2-Dichloroethane	7.55	62	185284	9.96 ug\L	99
36) Trichloroethene	8.47	95	269149	10.08 ug\L	98
37) 1,2-Dichloropropane	8.84	63	193437	10.20 ug\L	99
38) Dibromomethane	9.04	93	68443	9.91 ug\L	99
39) Methylmethacrylate	9.04	69	49537	10.07 ug\L	99
40) Bromodichloromethane	9.29	83	236149	9.95 ug\L	99
41) 2-Nitropropane	9.66	43	12617	8.24 ug\L	97
42) 2-Chloroethyl-vinyl ether	9.73	63	29900	7.73 ug\L	97
43) cis-1,3-Dichloropropene	9.92	75	259546	10.41 ug\L	99
44) 4-Methyl-2-Pentanone	10.15	85	9624	9.41 ug\L #	98
47) Toluene	10.35	92	612337	9.86 ug\L	99
48) trans-1,3-Dichloropropene	10.74	75	180235	9.59 ug\L	99
49) Ethylmethacrylate	10.84	69	118727	9.46 ug\L	99
50) 1,1,2-Trichloroethane	11.00	83	83470	9.57 ug\L	98
51) Tetrachloroethene	11.11	164	225518	9.37 ug\L	98
52) 1,3-Dichloropropane	11.23	76	186463	9.58 ug\L	99
53) 2-Hexanone	11.35	43	35061	8.95 ug\L	98
54) Dibromochloromethane	11.56	129	121728	9.22 ug\L	100
55) 1,2-Dibromoethane	11.69	107	87627	9.20 ug\L	100
56) Chlorobenzene	12.35	112	642656	10.07 ug\L	99
57) 1,1,1,2-Tetrachloroethane	12.48	131	181954	9.69 ug\L	100
58) Ethylbenzene	12.49	91	1209770	9.97 ug\L	99
59) total-Xylene	12.65	106	1278789m	29.52 ug\L	
60) Styrene	13.24	104	620550	10.04 ug\L	98
62) Bromoform	13.55	173	49514	8.78 ug\L	98
63) Isopropylbenzene	13.71	105	1235864	10.05 ug\L	99
64) cis-1,4-dichloro-2-Butene	13.87	75	24213	9.48 ug\L #	97
65) trans-1,4-dichloro-2-Buten	14.26	75	104561	9.71 ug\L	95
67) Bromobenzene	14.16	156	194363	9.84 ug\L	100
68) 1,1,2,2-Tetrachloroethane	14.21	83	93179	9.65 ug\L	98
69) 1,2,3-Trichloropropane	14.26	75	104561	9.71 ug\L	94
70) n-Propylbenzene	14.28	91	1509658	10.27 ug\L	99
71) 2-Chlorotoluene	14.42	91	817976	10.14 ug\L	99
72) 4-Chlorotoluene	14.57	91	890625	10.40 ug\L	98
73) 1,3,5-Trimethylbenzene	14.52	105	956626	9.94 ug\L	100
74) Pentachloroethane	15.04	167	117249	9.79 ug\L	98
75) tert-Butylbenzene	14.97	119	830979	9.97 ug\L	99
76) 1,2,4-Trimethylbenzene	15.04	105	923023	10.14 ug\L	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\040501\C19247.D Vial: 1
Acq On : 04/05/01 13:51 Operator: JP/VRR
Sample : CCV 10 ppb (V01034,V01028) Inst : VOA-C
Misc : WATER 25ml Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 5 14:13 2001 Quant Results File: 04050125.RES

Quant Method : C:\HPCHEM\1\DATA\040501\04050125.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Tue Apr 03 09:48:22 2001
Response via : Initial Calibration
DataAcq Meth : 04050125

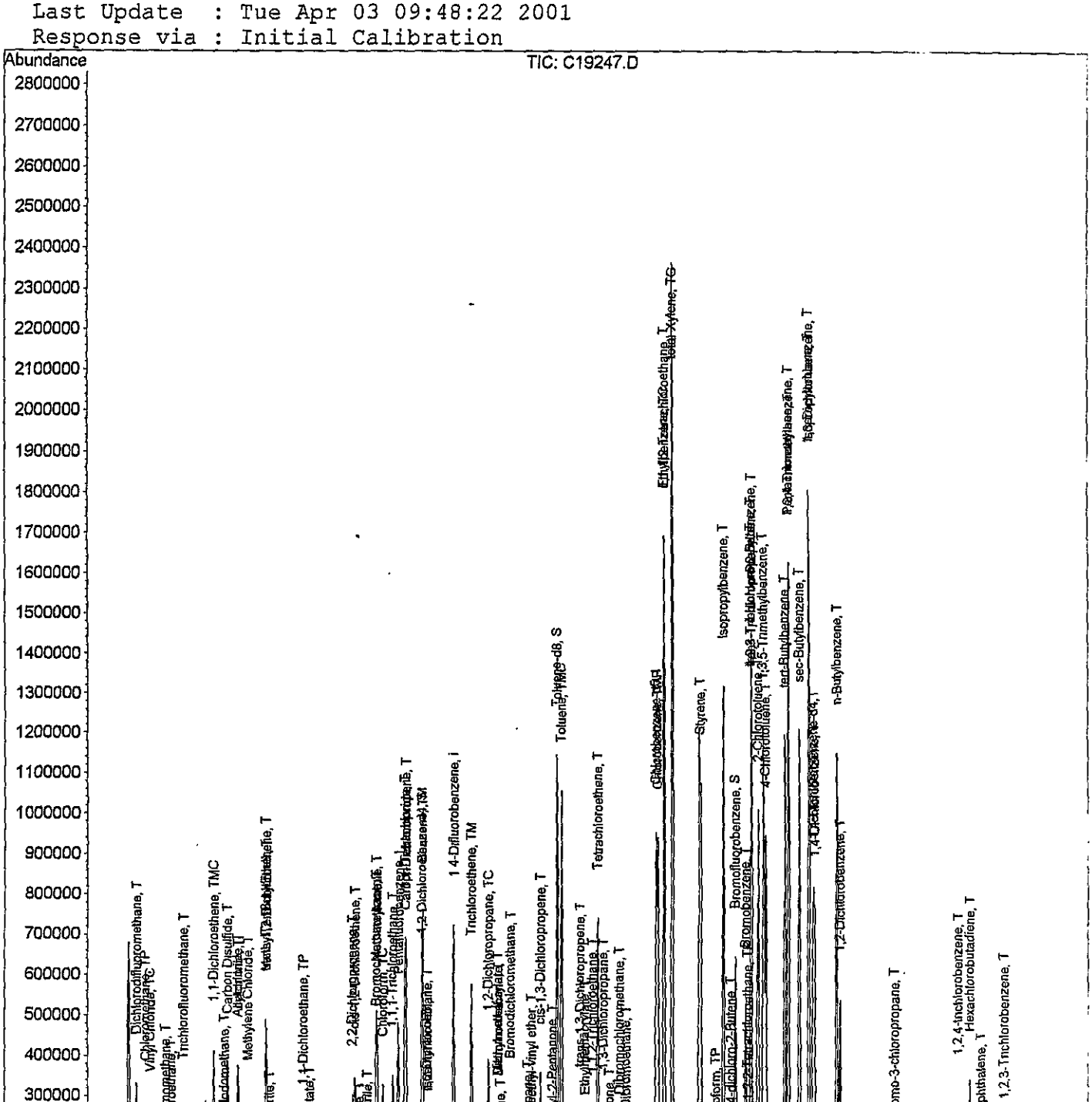
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
77)	sec-Butylbenzene	15.27	105	1245802	10.12	ug\L	99
78)	1,3-Dichlorobenzene	15.46	146	403184	9.76	ug\L	98
79)	Isopropyltoluene	15.47	119	966033	10.16	ug\L	98
80)	1,4-Dichlorobenzene	15.59	146	387360	9.60	ug\L	99
81)	1,2-Dichlorobenzene	16.11	146	308423	9.70	ug\L	100
82)	n-Butylbenzene	16.04	91	914436	10.02	ug\L	100
83)	1,2-Dibromo-3-chloropropan	17.23	75	9120	8.15	ug\L	94
84)	1,2,4-trichlorobenzene	18.55	180	155906	9.21	ug\L	100
85)	Hexachlorobutadiene	18.81	225	114030	9.17	ug\L	100
86)	Naphthalene	19.04	128	172960	9.34	ug\L	100
87)	1,2,3-Trichlorobenzene	19.52	180	106668	9.13	ug\L	98

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\040501\C19247.D Vial: 1
Acq On : 04/05/01 13:51 Operator: JP/VRR
Sample : CCV 10 ppb (V01034,V01028) Inst : VOA-C
Misc : WATER 25ml Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Apr 5 14:13 2001 Quant Results File: 04050125.RES

Method : C:\HPCHEM\1\DATA\040501\04050125.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Tue Apr 03 09:48:22 2001
Response via : Initial Calibration



-ACCURA ANALYTICAL LABORATORY, INC.
6017 Financial Drive, Norcross, Georgia, 30071, Phone (770) 449-8800

CASE NARRATIVE for Project Number: 27988
Client Project: NAS Cecil Field 103rd St. Annual GW / 154282/CTO 0029
CTO Manager: Jeff Wilmoth

The following items were noted concerning this project:

1. The following samples were received by Accura Analytical Laboratory on 05/25/01 at 0935:

Client I.D.	Laboratory I.D.
029-SMW01-Q2-01-12	AC14027
029-SMW02-Q2-01-12	AC14028
029-SMW03-Q2-01-12	AC14029
029-SMW04-Q2-01-12	AC14030
029-SMW05-Q2-01-12	AC14031
029-SMW06-Q2-01-12	AC14032
029-SMW07-Q2-01-12	AC14033
029-SMW08-Q2-01-12	AC14034
029-SMW09-Q2-01-12	AC14035
029-SMW10-Q2-01-12	AC14036
029-SMW11-Q2-01-12	AC14037
029-SMW12-Q2-01-12	AC14038
029-DMW01-Q2-01-12	AC14039
029-DUP-Q2-01-12	AC14040
029-EQB-Q2-01-12	AC14041
029-TB-Q2-01-12	AC14042

2. The sample cooler temperature was noted to be 2^0C upon receipt.

3. The "J" values noted for the VOC results indicate estimated concentrations that were above the method detection limits, but below the reporting limits.

4. The pH of the samples was 1.0 for the VOC analysis.

5. The PAH by HPLC analysis was performed by a subcontract laboratory.

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6. The following samples required dilution due to high analyte concentration or matrix interference, resulting in elevated detection limits:

FLA-PRO	VOC – SW-846-8260B	
029-DUP-Q2-01-12	029-SMW11-Q2-01-12	(1,2,4-Trimethylbenzene)

7. The following surrogates were outside the method specified limits as indicated by "Z" qualifier:

FLA-PRO

(Nonatriacontane/C39) -	029-SMW02-Q2-01-12
	029-SMW05-Q2-01-12
	029-DMW01-Q2-01-12
	029-DUP-Q2-01-12
	029-EQB-Q2-01-12
	Method Blank
	Laboratory Control Sample
	Matrix Spike
	Matrix Spike Duplicate
o-Terphenyl -	029-SMW01-Q2-01-12
	029-SMW02-Q2-01-12
	029-SMW03-Q2-01-12
	029-SMW05-Q2-01-12
	029-SMW07-Q2-01-12
	029-SMW08-Q2-01-12
	029-SMW09-Q2-01-12
	029-SMW10-Q2-01-12
	029-DUP-Q2-01-12

The recoveries were within historical limits established in the laboratory; therefore the data was accepted.

8. The following spike recoveries were outside the subcontract laboratory's historical quality control limits:

PAH by HPLC – SW-846-8310

Matrix Spike -	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(k)fluoranthene
	Indeno(1,2,3-cd)pyrene	Benzo(g,h,i)perylene	

Quality Assurance Officer
Camden L. Robinson

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LABORATORY REPORT

Accura Sample ID #: **AC14027** **Accura Project #:** **27988**

Client: **CH2M HILL - CCI** Date Sampled: 5/23/01

Client Contact: JEFF WILMOTH Date Received: 5/25/01

Client Project Number: 154282 / CTO 0029 Date Reported: 6/13/01

Client Project Name: NAS CECIL FIELD 103rd ST ANNUAL GW Sample Matrix: WATER

Client Sample ID: **029-SMW01-Q2-01-12**

ANALYSIS: Metals - Lead Method Ref: 3010A/6010B

Date Ext/Dig/Prep: 6/6/01 Date Analyzed: 6/8/01 Result Units: mg/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Lead	0.10		0.010

ANALYSIS: PAH's by HPLC Method Ref: 8310

Date Ext/Dig/Prep: 5/29/01 Date Analyzed: 6/8/01 Result Units: ug/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1-Methylnapthalene	<RL		1.01
2-Methylnapthalene	<RL		1.01
Acenaphthene	<RL		1.01
Acenaphthylene	<RL		2.02
Anthracene	<RL		0.67
Benzo(a)anthracene	<RL		0.13
Benzo(a)pyrene	<RL		0.10
Benzo(b)fluoranthene	<RL		0.18
Benzo(g,h,i)perylene	<RL		0.77
Benzo(k)fluoranthene	<RL		0.17
Chrysene	<RL		0.15
Dibenzo(a,h)anthracene	<RL		0.30
Fluoranthene	<RL		0 21
Fluorene	<RL		0.51
Indeno(1,2,3-cd)pyrene	<RL		0.43
Naphthalene	<RL		1.01
Phenanthrene	<RL		0.65
Pyrene	<RL		0.27

ANALYSIS: Petroleum Range Organics (PRO) Method Ref: FL-PRO

Date Ext/Dig/Prep: 5/30/01 Date Analyzed: 6/4/01 Result Units: mg/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Petroleum Range Organics (PRO)	<RL		1.0

ANALYSIS: VOC's Navy (25 ml purge) Method Ref: 8260B

Date Ext/Dig/Prep: 5/31/01 Date Analyzed: 5/31/01 Result Units: ug/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,1,1,2-Tetrachloroethane	<RL		2.5
1,1,1-Trichloroethane	<RL		4
1,1,2,2-Tetrachloroethane	<RL		2

1,1,2-Trichloroethane	<RL		5
1,1-Dichloroethane	<RL		2
1,1-Dichloroethene	<RL		6
1,2,3-Trichlorobenzene	<RL		1.5
1,2,3-Trichloropropane	<RL		16
1,2,4-Trichlorobenzene	<RL		2
1,2,4-Trimethylbenzene	<RL		6.5
1,2-Dibromo-3-chloropropane	<RL		13
1,2-Dichlorobenzene	<RL		1.5
1,2-Dichloroethane	<RL		3
1,2-Dichloropropane	<RL		2
1,2-Ethylene Dibromide	<RL		3
1,3,5-Trimethylbenzene	<RL		2.5
1,3-Dichlorobenzene	<RL		6
1,3-Dichloropropane	<RL		2
1,4-Dichlorobenzene	<RL		1.5
2,2-Dichloropropane	<RL		17.5
2-Chlorotoluene	<RL		2
4-Chlorotoluene	<RL		3
Benzene	<RL		1
Bromobenzene	<RL		1.5
Bromochloromethane	<RL		2
Bromodichloromethane	<RL		4
Bromoform	<RL		6
Bromomethane	<RL		5.5
Carbon tetrachloride	<RL		10.5
Chlorobenzene	<RL		2
Chloroethane	<RL		5
Chloroform	<RL		1.5
Chloromethane	0.63	J	6.5
cis-1,2-Dichloroethene	<RL		6
cis-1,3-Dichloropropene	<RL		5
Dibromochloromethane	<RL		2.5
Dibromomethane	<RL		12
Dichlorodifluoromethane	<RL		5
Ethylbenzene	<RL		3
Hexachlorobutadiene	<RL		5.5
Isopropylbenzene	<RL		2.5
Methylene chloride	0.87	J	1.5
Naphthalene	<RL		2
n-Butylbenzene	<RL		5.5
n-Propylbenzene	<RL		2
p-Isopropyltoluene	<RL		6
Sec-Butylbenzene	<RL		6.5
Styrene	<RL		2
Tert-Butylbenzene	<RL		7
Tetrachloroethylene	<RL		7
Toluene	<RL		5.5
Total Xylenes	<RL		5
trans-1,2-Dichloroethene	<RL		3
trans-1,3-Dichloropropene	<RL		5
Trichloroethylene	<RL		5
Trichlorofluoromethane	<RL		4
Vinyl chloride	<RL		5.5

ANALYSIS: X PAH Surrogates (Liquid) Method Ref: 8310

Date Ext/Dig/Prep: 5/29/01 Date Analyzed: 6/8/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
p-terphenyl d14 (Range 12-135)	82		

ANALYSIS: X PRO Sample Surrogates (Water) Method Ref: FL-PRO

Date Ext/Dig/Prep: 5/30/01 Date Analyzed: 6/4/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
C(39) (Range 42-193)	49		
o-Terphenyl (Range 82-142)	39	Z	

ANALYSIS: X VOC Sample Surrogates-Waters Method Ref: 5030B/8260B

Date Ext/Dig/Prep: 5/31/01 Date Analyzed: 5/31/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,2-Dichloroethane-d4 (81-132)	104		
4-Bromofluorobenzene (80-120)	112		
Toluene-d8 (80-119)	114		

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LABORATORY REPORT

Accura Sample ID #: **AC14028** **Accura Project #:** **27988**

Client: **CH2M HILL - CCI** Date Sampled: 5/24/01

Client Contact: JEFF WILMOTH Date Received: 5/25/01

Client Project Number: 154282 / CTO 0029 Date Reported: 6/13/01

Client Project Name: NAS CECIL FIELD 103rd ST ANNUAL GW Sample Matrix: WATER

Client Sample ID: **029-SMW02-Q2-01-12**

ANALYSIS: Metals - Lead Method Ref: 3010A/6010B

Date Ext/Dig/Prep: 6/6/01 Date Analyzed: 6/11/01 Result Units: mg/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Lead	0.10		0.010

ANALYSIS: PAH's by HPLC Method Ref: 8310

Date Ext/Dig/Prep: 5/29/01 Date Analyzed: 6/8/01 Result Units: ug/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1-Methylnapthalene	<RL		1.01
2-Methylnapthalene	<RL		1.01
Acenaphthene	<RL		1.01
Acenaphthylene	<RL		2.02
Anthracene	<RL		0.67
Benzo(a)anthracene	<RL		0.13
Benzo(a)pyrene	<RL		0.10
Benzo(b)fluoranthene	<RL		0.18
Benzo(g,h,i)perylene	<RL		0.77
Benzo(k)fluoranthene	<RL		0.17
Chrysene	<RL		0.15
Dibenzo(a,h)anthracene	<RL		0.30
Fluoranthene	<RL		0.21
Fluorene	<RL		0.51
Indeno(1,2,3-cd)pyrene	<RL		0.43
Naphthalene	<RL		1.01
Phenanthrene	<RL		0.65
Pyrene	<RL		0.27

ANALYSIS: Petroleum Range Organics (PRO) Method Ref: FL-PRO

Date Ext/Dig/Prep: 5/30/01 Date Analyzed: 6/4/01 Result Units: mg/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Petroleum Range Organics (PRO)	<RL		1.0

ANALYSIS: VOC's Navy (25 ml purge) Method Ref: 8260B

Date Ext/Dig/Prep: 5/31/01 Date Analyzed: 5/31/01 Result Units: ug/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,1,1,2-Tetrachloroethane	<RL		2.5
1,1,1-Trichloroethane	<RL		4
1,1,2,2-Tetrachloroethane	<RL		2

1,1,2-Trichloroethane	<RL		5
1,1-Dichloroethane	<RL		2
1,1-Dichloroethene	<RL		6
1,2,3-Trichlorobenzene	<RL		1.5
1,2,3-Trichloropropane	<RL		16
1,2,4-Trichlorobenzene	<RL		2
1,2,4-Trimethylbenzene	<RL		6.5
1,2-Dibromo-3-chloropropane	<RL		13
1,2-Dichlorobenzene	<RL		1.5
1,2-Dichloroethane	<RL		3
1,2-Dichloropropane	<RL		2
1,2-Ethylene Dibromide	<RL		3
1,3,5-Trimethylbenzene	<RL		2.5
1,3-Dichlorobenzene	<RL		6
1,3-Dichloropropane	<RL		2
1,4-Dichlorobenzene	<RL		1.5
2,2-Dichloropropane	<RL		17.5
2-Chlorotoluene	<RL		2
4-Chlorotoluene	<RL		3
Benzene	<RL		1
Bromobenzene	<RL		1.5
Bromochloromethane	<RL		2
Bromodichloromethane	<RL		4
Bromoform	<RL		6
Bromomethane	<RL		5.5
Carbon tetrachloride	<RL		10.5
Chlorobenzene	<RL		2
Chloroethane	<RL		5
Chloroform	<RL		1.5
Chloromethane	0.61	J	6.5
cis-1,2-Dichloroethene	<RL		6
cis-1,3-Dichloropropene	<RL		5
Dibromochloromethane	<RL		2.5
Dibromomethane	<RL		12
Dichlorodifluoromethane	<RL		5
Ethylbenzene	<RL		3
Hexachlorobutadiene	<RL		5.5
Isopropylbenzene	<RL		2.5
Methylene chloride	0.96	J	1.5
Naphthalene	<RL		2
n-Butylbenzene	<RL		5.5
n-Propylbenzene	<RL		2
p-Isopropyltoluene	<RL		6
Sec-Butylbenzene	<RL		6.5
Styrene	<RL		2
Tert-Butylbenzene	<RL		7
Tetrachloroethylene	<RL		7
Toluene	<RL		5.5
Total Xylenes	<RL		5
trans-1,2-Dichloroethene	<RL		3
trans-1,3-Dichloropropene	<RL		5
Trichloroethylene	<RL		5
Trichlorofluoromethane	<RL		4
Vinyl chloride	<RL		5.5

ANALYSIS: X PAH Surrogates (Liquid) Method Ref: 8310

Date Ext/Dig/Prep: 5/29/01 Date Analyzed: 6/8/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
p-terphenyl d14 (Range 12-135)	55		

ANALYSIS: X PRO Sample Surrogates (Water) Method Ref: FL-PRO

Date Ext/Dig/Prep: 5/30/01 Date Analyzed: 6/4/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
C(39) (Range 42-193)	29	Z	
o-Terphenyl (Range 82-142)	60	Z	

ANALYSIS: X VOC Sample Surrogates-Waters Method Ref: 5030B/8260B

Date Ext/Dig/Prep: 5/31/01 Date Analyzed: 5/31/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,2-Dichloroethane-d4 (81-132)	114		
4-Bromofluorobenzene (80-120)	111		
Toluene-d8 (80-119)	114		

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LABORATORY REPORT

Accura Sample ID #: **AC14029** **Accura Project #:** **27988**

Client: **CH2M HILL - CCI** Date Sampled: 5/23/01

Client Contact: JEFF WILMOTH Date Received: 5/25/01

Client Project Number: 154282 / CTO 0029 Date Reported: 6/13/01

Client Project Name: NAS CECIL FIELD 103rd ST ANNUAL GW Sample Matrix: WATER

Client Sample ID: **029-SMW03-Q2-01-12**

ANALYSIS: Metals - Lead Method Ref: 3010A/6010B

Date Ext/Dig/Prep: 6/6/01 Date Analyzed: 6/11/01 Result Units: mg/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Lead	0.013		0.010

ANALYSIS: PAH's by HPLC Method Ref: 8310

Date Ext/Dig/Prep: 5/29/01 Date Analyzed: 6/8/01 Result Units: ug/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1-Methylnapthalene	<RL		1.01
2-Methylnapthalene	<RL		1.01
Acenaphthene	<RL		1.01
Acenaphthylene	<RL		2.02
Anthracene	<RL		0.67
Benzo(a)anthracene	<RL		0.13
Benzo(a)pyrene	<RL		0.10
Benzo(b)fluoranthene	<RL		0.18
Benzo(g,h,i)perylene	<RL		0.77
Benzo(k)fluoranthene	<RL		0.17
Chrysene	<RL		0.15
Dibenzo(a,h)anthracene	<RL		0.30
Fluoranthene	<RL		0.21
Fluorene	<RL		0.51
Indeno(1,2,3-cd)pyrene	<RL		0.43
Naphthalene	<RL		1.01
Phenanthrene	<RL		0.65
Pyrene	<RL		0.27

ANALYSIS: Petroleum Range Organics (PRO) Method Ref: FL-PRO

Date Ext/Dig/Prep: 5/30/01 Date Analyzed: 6/4/01 Result Units: mg/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Petroleum Range Organics (PRO)	<RL		1.0

ANALYSIS: VOC's Navy (25 ml purge) Method Ref: 8260B

Date Ext/Dig/Prep: 5/31/01 Date Analyzed: 5/31/01 Result Units: ug/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,1,1,2-Tetrachloroethane	<RL		2.5
1,1,1-Trichloroethane	<RL		4
1,1,2,2-Tetrachloroethane	<RL		2

1,1,2-Trichloroethane	<RL		5
1,1-Dichloroethane	<RL		2
1,1-Dichloroethene	<RL		6
1,2,3-Trichlorobenzene	<RL		1.5
1,2,3-Trichloropropane	<RL		16
1,2,4-Trichlorobenzene	<RL		2
1,2,4-Trimethylbenzene	<RL		6.5
1,2-Dibromo-3-chloropropane	<RL		13
1,2-Dichlorobenzene	<RL		1.5
1,2-Dichloroethane	<RL		3
1,2-Dichloropropane	<RL		2
1,2-Ethylene Dibromide	<RL		3
1,3,5-Trimethylbenzene	<RL		2.5
1,3-Dichlorobenzene	<RL		6
1,3-Dichloropropane	<RL		2
1,4-Dichlorobenzene	<RL		1.5
2,2-Dichloropropane	<RL		17.5
2-Chlorotoluene	<RL		2
4-Chlorotoluene	<RL		3
Benzene	<RL		1
Bromobenzene	<RL		1.5
Bromochloromethane	<RL		2
Bromodichloromethane	<RL		4
Bromoform	<RL		6
Bromomethane	<RL		5.5
Carbon tetrachloride	<RL		10.5
Chlorobenzene	<RL		2
Chloroethane	<RL		5
Chloroform	<RL		1.5
Chloromethane	<RL		6.5
cis-1,2-Dichloroethene	<RL		6
cis-1,3-Dichloropropene	<RL		5
Dibromochloromethane	<RL		2.5
Dibromomethane	<RL		12
Dichlorodifluoromethane	<RL		5
Ethylbenzene	<RL		3
Hexachlorobutadiene	<RL		5.5
Isopropylbenzene	<RL		2.5
Methylene chloride	1.3	J	1.5
Naphthalene	<RL		2
n-Butylbenzene	<RL		5.5
n-Propylbenzene	<RL		2
p-Isopropyltoluene	<RL		6
Sec-Butylbenzene	<RL		6.5
Styrene	<RL		2
Tert-Butylbenzene	<RL		7
Tetrachloroethylene	<RL		7
Toluene	<RL		5.5
Total Xylenes	<RL		5
trans-1,2-Dichloroethene	<RL		3
trans-1,3-Dichloropropene	<RL		5
Trichloroethylene	<RL		5
Trichlorofluoromethane	<RL		4
Vinyl chloride	<RL		5.5

ANALYSIS: X PAH Surrogates (Liquid) Method Ref: 8310

Date Ext/Dig/Prep: 5/29/01 Date Analyzed: 6/8/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
p-terphenyl d14 (Range 12-135)	68		

ANALYSIS: X PRO Sample Surrogates (Water) Method Ref: FL-PRO

Date Ext/Dig/Prep: 5/30/01 Date Analyzed: 6/4/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
C(39) (Range 42-193)	55		
o-Terphenyl (Range 82-142)	76	Z	

ANALYSIS: X VOC Sample Surrogates-Waters Method Ref: 5030B/8260B

Date Ext/Dig/Prep: 5/31/01 Date Analyzed: 5/31/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,2-Dichloroethane-d4 (81-132)	130		
4-Bromofluorobenzene (80-120)	115		
Toluene-d8 (80-119)	118		

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LABORATORY REPORT

Accura Sample ID #: **AC14030** **Accura Project #:** **27988**

Client: **CH2M HILL - CCI** Date Sampled: 5/23/01

Client Contact: JEFF WILMOTH Date Received: 5/25/01

Client Project Number: 154282 / CTO 0029 Date Reported: 6/13/01

Client Project Name: NAS CECIL FIELD 103rd ST ANNUAL GW Sample Matrix: WATER

Client Sample ID: **029-SMW04-Q2-01-12**

ANALYSIS: Metals - Lead Method Ref: 3010A/6010B

Date Ext/Dig/Prep: 6/6/01 Date Analyzed: 6/11/01 Result Units: mg/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Lead	0.013		0.010

ANALYSIS: PAH's by HPLC Method Ref: 8310

Date Ext/Dig/Prep: 5/29/01 Date Analyzed: 6/8/01 Result Units: ug/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1-Methylnapthalene	<RL		1.09
2-Methylnapthalene	<RL		1.09
Acenaphthene	<RL		1.09
Acenaphthylene	<RL		2.17
Anthracene	<RL		0.72
Benzo(a)anthracene	<RL		0.14
Benzo(a)pyrene	<RL		0.11
Benzo(b)fluoranthene	<RL		0.20
Benzo(g,h,i)perylene	<RL		0.83
Benzo(k)fluoranthene	<RL		0.18
Chrysene	<RL		0.16
Dibenzo(a,h)anthracene	<RL		0.33
Fluoranthene	<RL		0.23
Fluorene	<RL		0.54
Indeno(1,2,3-cd)pyrene	<RL		0.47
Naphthalene	<RL		1.09
Phenanthrene	<RL		0.70
Pyrene	<RL		0.29

ANALYSIS: Petroleum Range Organics (PRO) Method Ref: FL-PRO

Date Ext/Dig/Prep: 5/30/01 Date Analyzed: 6/5/01 Result Units: mg/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Petroleum Range Organics (PRO)	4.6		1.0

ANALYSIS: VOC's Navy (25 ml purge) Method Ref: 8260B

Date Ext/Dig/Prep: 5/31/01 Date Analyzed: 5/31/01 Result Units: ug/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,1,1,2-Tetrachloroethane	<RL		2.5
1,1,1-Trichloroethane	<RL		4
1,1,2,2-Tetrachloroethane	<RL		2

1,1,2-Trichloroethane	<RL		5
1,1-Dichloroethane	<RL		2
1,1-Dichloroethene	<RL		6
1,2,3-Trichlorobenzene	<RL		1.5
1,2,3-Trichloropropane	<RL		16
1,2,4-Trichlorobenzene	<RL		2
1,2,4-Trimethylbenzene	0.69	J	6.5
1,2-Dibromo-3-chloropropane	<RL		13
1,2-Dichlorobenzene	<RL		1.5
1,2-Dichloroethane	<RL		3
1,2-Dichloropropane	<RL		2
1,2-Ethylene Dibromide	<RL		3
1,3,5-Trimethylbenzene	0.72	J	2.5
1,3-Dichlorobenzene	<RL		6
1,3-Dichloropropane	<RL		2
1,4-Dichlorobenzene	<RL		1.5
2,2-Dichloropropane	<RL		17.5
2-Chlorotoluene	<RL		2
4-Chlorotoluene	<RL		3
Benzene	<RL		1
Bromobenzene	<RL		1.5
Bromochloromethane	<RL		2
Bromodichloromethane	<RL		4
Bromoform	<RL		6
Bromomethane	<RL		5.5
Carbon tetrachloride	<RL		10.5
Chlorobenzene	<RL		2
Chloroethane	<RL		5
Chloroform	<RL		1.5
Chloromethane	<RL		6.5
cis-1,2-Dichloroethene	<RL		6
cis-1,3-Dichloropropene	<RL		5
Dibromochloromethane	<RL		2.5
Dibromomethane	<RL		12
Dichlorodifluoromethane	<RL		5
Ethylbenzene	<RL		3
Hexachlorobutadiene	<RL		5.5
Isopropylbenzene	<RL		2.5
Methylene chloride	1.1	J	1.5
Naphthalene	<RL		2
n-Butylbenzene	<RL		5.5
n-Propylbenzene	<RL		2
p-Isopropyltoluene	<RL		6
Sec-Butylbenzene	<RL		6.5
Styrene	<RL		2
Tert-Butylbenzene	<RL		7
Tetrachloroethylene	<RL		7
Toluene	<RL		5.5
Total Xylenes	<RL		5
trans-1,2-Dichloroethene	<RL		3
trans-1,3-Dichloropropene	<RL		5
Trichloroethylene	<RL		5
Trichlorofluoromethane	<RL		4
Vinyl chloride	<RL		5.5

ANALYSIS: X PAH Surrogates (Liquid) Method Ref: 8310

Date Ext/Dig/Prep: 5/29/01 Date Analyzed: 6/8/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
p-terphenyl d14 (Range 12-135)	42		

ANALYSIS: X PRO Sample Surrogates (Water) Method Ref: FL-PRO

Date Ext/Dig/Prep: 5/30/01 Date Analyzed: 6/5/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
C(39) (Range 42-193)	86		
o-Terphenyl (Range 82-142)	87		

ANALYSIS: X VOC Sample Surrogates-Waters Method Ref: 5030B/8260B

Date Ext/Dig/Prep: 5/31/01 Date Analyzed: 5/31/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,2-Dichloroethane-d4 (81-132)	124		
4-Bromofluorobenzene (80-120)	108		
Toluene-d8 (80-119)	114		

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LABORATORY REPORT

Accura Sample ID #: **AC14031** **Accura Project #:** **27988**

Client: **CH2M HILL - CCI** Date Sampled: 5/23/01

Client Contact: JEFF WILMOTH Date Received: 5/25/01

Client Project Number: 154282 / CTO 0029 Date Reported: 6/13/01

Client Project Name: NAS CECIL FIELD 103rd ST ANNUAL GW Sample Matrix: WATER

Client Sample ID: **029-SMW05-Q2-01-12**

ANALYSIS: Metals - Lead Method Ref: 3010A/6010B

Date Ext/Dig/Prep: 6/6/01 Date Analyzed: 6/11/01 Result Units: mg/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Lead	0.021		0.010

ANALYSIS: PAH's by HPLC Method Ref: 8310

Date Ext/Dig/Prep: 5/29/01 Date Analyzed: 6/8/01 Result Units: ug/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1-Methylnapthalene	<RL		1.09
2-Methylnapthalene	<RL		1.09
Acenaphthene	<RL		1.09
Acenaphthylene	<RL		2.17
Anthracene	<RL		0.72
Benzo(a)anthracene	<RL		0.14
Benzo(a)pyrene	<RL		0.11
Benzo(b)fluoranthene	<RL		0.20
Benzo(g,h,i)perylene	<RL		0.83
Benzo(k)fluoranthene	<RL		0.18
Chrysene	<RL		0.16
Dibenzo(a,h)anthracene	<RL		0.33
Fluoranthene	<RL		0.23
Fluorene	<RL		0.54
Indeno(1,2,3-cd)pyrene	<RL		0.47
Naphthalene	<RL		1.09
Phenanthrene	<RL		0.70
Pyrene	<RL		0.29

ANALYSIS: Petroleum Range Organics (PRO) Method Ref: FL-PRO

Date Ext/Dig/Prep: 5/30/01 Date Analyzed: 6/4/01 Result Units: mg/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Petroleum Range Organics (PRO)	1.0		1.0

ANALYSIS: VOC's Navy (25 ml purge) Method Ref: 8260B

Date Ext/Dig/Prep: 5/31/01 Date Analyzed: 5/31/01 Result Units: ug/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,1,1,2-Tetrachloroethane	<RL		2.5
1,1,1-Trichloroethane	<RL		4
1,1,2,2-Tetrachloroethane	<RL		2

1,1,2-Trichloroethane	<RL		5
1,1-Dichloroethane	<RL		2
1,1-Dichloroethene	<RL		6
1,2,3-Trichlorobenzene	<RL		1.5
1,2,3-Trichloropropane	<RL		16
1,2,4-Trichlorobenzene	<RL		2
1,2,4-Trimethylbenzene	<RL		6.5
1,2-Dibromo-3-chloropropane	<RL		13
1,2-Dichlorobenzene	<RL		1.5
1,2-Dichloroethane	<RL		3
1,2-Dichloropropane	<RL		2
1,2-Ethylene Dibromide	<RL		3
1,3,5-Trimethylbenzene	<RL		2.5
1,3-Dichlorobenzene	<RL		6
1,3-Dichloropropane	<RL		2
1,4-Dichlorobenzene	<RL		1.5
2,2-Dichloropropane	<RL		17.5
2-Chlorotoluene	<RL		2
4-Chlorotoluene	<RL		3
Benzene	<RL		1
Bromobenzene	<RL		1.5
Bromochloromethane	<RL		2
Bromodichloromethane	<RL		4
Bromoform	<RL		6
Bromomethane	<RL		5.5
Carbon tetrachloride	<RL		10.5
Chlorobenzene	<RL		2
Chloroethane	<RL		5
Chloroform	<RL		1.5
Chloromethane	<RL		6.5
cis-1,2-Dichloroethene	<RL		6
cis-1,3-Dichloropropene	<RL		5
Dibromochloromethane	<RL		2.5
Dibromomethane	<RL		12
Dichlorodifluoromethane	<RL		5
Ethylbenzene	<RL		3
Hexachlorobutadiene	<RL		5.5
Isopropylbenzene	<RL		2.5
Methylene chloride	1.1	J	1.5
Naphthalene	<RL		2
n-Butylbenzene	<RL		5.5
n-Propylbenzene	<RL		2
p-Isopropyltoluene	<RL		6
Sec-Butylbenzene	<RL		6.5
Styrene	<RL		2
Tert-Butylbenzene	<RL		7
Tetrachloroethylene	<RL		7
Toluene	<RL		5.5
Total Xylenes	<RL		5
trans-1,2-Dichloroethene	<RL		3
trans-1,3-Dichloropropene	<RL		5
Trichloroethylene	<RL		5
Trichlorofluoromethane	<RL		4
Vinyl chloride	<RL		5.5

ANALYSIS: X PAH Surrogates (Liquid) Method Ref: 8310

Date Ext/Dig/Prep: 5/29/01 Date Analyzed: 6/8/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
p-terphenyl d14 (Range 12-135)	72		

ANALYSIS: X PRO Sample Surrogates (Water) Method Ref: FL-PRO

Date Ext/Dig/Prep: 5/30/01 Date Analyzed: 6/4/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
C(39) (Range 42-193)	35	Z	
o-Terphenyl (Range 82-142)	78	Z	

ANALYSIS: X VOC Sample Surrogates-Waters Method Ref: 5030B/8260B

Date Ext/Dig/Prep: 5/31/01 Date Analyzed: 5/31/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,2-Dichloroethane-d4 (81-132)	110		
4-Bromofluorobenzene (80-120)	104		
Toluene-d8 (80-119)	108		

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LABORATORY REPORT

Accura Sample ID #: **AC14032** **Accura Project #:** **27988**

Client: **CH2M HILL - CCI** Date Sampled: 5/24/01

Client Contact: JEFF WILMOTH Date Received: 5/25/01

Client Project Number: 154282 / CTO 0029 Date Reported: 6/13/01

Client Project Name: NAS CECIL FIELD 103rd ST ANNUAL GW Sample Matrix: WATER

Client Sample ID: **029-SMW06-Q2-01-12**

ANALYSIS: Metals - Lead Method Ref: 3010A/6010B

Date Ext/Dig/Prep: 6/6/01 Date Analyzed: 6/11/01 Result Units: mg/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Lead	0.086		0.010

ANALYSIS: PAH's by HPLC Method Ref: 8310

Date Ext/Dig/Prep: 5/29/01 Date Analyzed: 6/8/01 Result Units: ug/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1-Methylnapthalene	<RL		1.01
2-Methylnapthalene	<RL		1.01
Acenaphthene	<RL		1.01
Acenaphthylene	<RL		2.02
Anthracene	<RL		0.67
Benzo(a)anthracene	<RL		0.13
Benzo(a)pyrene	<RL		0.10
Benzo(b)fluoranthene	<RL		0.18
Benzo(g,h,i)perylene	<RL		0.77
Benzo(k)fluoranthene	<RL		0.17
Chrysene	<RL		0.15
Dibenzo(a,h)anthracene	<RL		0.30
Fluoranthene	<RL		0.21
Fluorene	<RL		0.51
Indeno(1,2,3-cd)pyrene	<RL		0.43
Naphthalene	<RL		1.01
Phenanthrene	<RL		0.65
Pyrene	<RL		0.27

ANALYSIS: Petroleum Range Organics (PRO) Method Ref: FL-PRO

Date Ext/Dig/Prep: 5/30/01 Date Analyzed: 6/4/01 Result Units: mg/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Petroleum Range Organics (PRO)	<RL		1.0

ANALYSIS: VOC's Navy (25 ml purge) Method Ref: 8260B

Date Ext/Dig/Prep: 5/31/01 Date Analyzed: 5/31/01 Result Units: ug/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,1,1,2-Tetrachloroethane	<RL		2.5
1,1,1-Trichloroethane	<RL		4
1,1,2,2-Tetrachloroethane	<RL		2

1,1,2-Trichloroethane	<RL		5
1,1-Dichloroethane	<RL		2
1,1-Dichloroethene	<RL		6
1,2,3-Trichlorobenzene	<RL		1.5
1,2,3-Trichloropropane	<RL		16
1,2,4-Trichlorobenzene	<RL		2
1,2,4-Trimethylbenzene	<RL		6.5
1,2-Dibromo-3-chloropropane	<RL		13
1,2-Dichlorobenzene	<RL		1.5
1,2-Dichloroethane	<RL		3
1,2-Dichloropropane	<RL		2
1,2-Ethylene Dibromide	<RL		3
1,3,5-Trimethylbenzene	<RL		2.5
1,3-Dichlorobenzene	<RL		6
1,3-Dichloropropane	<RL		2
1,4-Dichlorobenzene	<RL		1.5
2,2-Dichloropropane	<RL		17.5
2-Chlorotoluene	<RL		2
4-Chlorotoluene	<RL		3
Benzene	<RL		1
Bromobenzene	<RL		1.5
Bromochloromethane	<RL		2
Bromodichloromethane	<RL		4
Bromoform	<RL		6
Bromomethane	<RL		5.5
Carbon tetrachloride	<RL		10.5
Chlorobenzene	<RL		2
Chloroethane	<RL		5
Chloroform	<RL		1.5
Chloromethane	0.59	J	6.5
cis-1,2-Dichloroethene	<RL		6
cis-1,3-Dichloropropene	<RL		5
Dibromochloromethane	<RL		2.5
Dibromomethane	<RL		12
Dichlorodifluoromethane	<RL		5
Ethylbenzene	<RL		3
Hexachlorobutadiene	<RL		5.5
Isopropylbenzene	<RL		2.5
Methylene chloride	0.95	J	1.5
Naphthalene	<RL		2
n-Butylbenzene	<RL		5.5
n-Propylbenzene	<RL		2
p-Isopropyltoluene	<RL		6
Sec-Butylbenzene	<RL		6.5
Styrene	<RL		2
Tert-Butylbenzene	<RL		7
Tetrachloroethylene	<RL		7
Toluene	<RL		5.5
Total Xylenes	<RL		5
trans-1,2-Dichloroethene	<RL		3
trans-1,3-Dichloropropene	<RL		5
Trichloroethylene	<RL		5
Trichlorofluoromethane	<RL		4
Vinyl chloride	<RL		5.5

ANALYSIS: X PAH Surrogates (Liquid) Method Ref: 8310

Date Ext/Dig/Prep: 5/29/01 Date Analyzed: 6/8/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
p-terphenyl d14 (Range 12-135)	55		

ANALYSIS: X PRO Sample Surrogates (Water) Method Ref: FL-PRO

Date Ext/Dig/Prep: 5/30/01 Date Analyzed: 6/4/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
C(39) (Range 42-193)	47		
o-Terphenyl (Range 82-142)	93		

ANALYSIS: X VOC Sample Surrogates-Waters Method Ref: 5030B/8260B

Date Ext/Dig/Prep: 5/31/01 Date Analyzed: 5/31/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,2-Dichloroethane-d4 (81-132)	110		
4-Bromofluorobenzene (80-120)	111		
Toluene-d8 (80-119)	119		

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LABORATORY REPORT

Accura Sample ID #: **AC14033** **Accura Project #:** **27988**

Client: **CH2M HILL - CCI** Date Sampled: 5/24/01

Client Contact: JEFF WILMOTH Date Received: 5/25/01

Client Project Number: 154282 / CTO 0029 Date Reported: 6/13/01

Client Project Name: NAS CECIL FIELD 103rd ST ANNUAL GW Sample Matrix: WATER

Client Sample ID: **029-SMW07-Q2-01-12**

ANALYSIS: Metals - Lead Method Ref: 3010A/6010B

Date Ext/Dig/Prep: 6/6/01 Date Analyzed: 6/11/01 Result Units: mg/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Lead	0.071		0.010

ANALYSIS: PAH's by HPLC Method Ref: 8310

Date Ext/Dig/Prep: 5/29/01 Date Analyzed: 6/8/01 Result Units: ug/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1-Methylnapthalene	<RL		1.04
2-Methylnapthalene	<RL		1.04
Acenaphthene	<RL		1.04
Acenaphthylene	<RL		2.08
Anthracene	<RL		0.69
Benzo(a)anthracene	<RL		0.14
Benzo(a)pyrene	<RL		0.10
Benzo(b)fluoranthene	<RL		0.19
Benzo(g,h,i)perylene	<RL		0.79
Benzo(k)fluoranthene	<RL		0.18
Chrysene	<RL		0.16
Dibenzo(a,h)anthracene	<RL		0.31
Fluoranthene	<RL		0.22
Fluorene	<RL		0.52
Indeno(1,2,3-cd)pyrene	<RL		0.45
Naphthalene	<RL		1.04
Phenanthrene	<RL		0.67
Pyrene	<RL		0.28

ANALYSIS: Petroleum Range Organics (PRO) Method Ref: FL-PRO

Date Ext/Dig/Prep: 5/30/01 Date Analyzed: 6/4/01 Result Units: mg/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Petroleum Range Organics (PRO)	<RL		1.0

ANALYSIS: VOC's Navy (25 ml purge) Method Ref: 8260B

Date Ext/Dig/Prep: 5/31/01 Date Analyzed: 5/31/01 Result Units: ug/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,1,1,2-Tetrachloroethane	<RL		2.5
1,1,1-Trichloroethane	<RL		4
1,1,2,2-Tetrachloroethane	<RL		2

1,1,2-Trichloroethane	<RL		5
1,1-Dichloroethane	<RL		2
1,1-Dichloroethene	<RL		6
1,2,3-Trichlorobenzene	<RL		1.5
1,2,3-Trichloropropane	<RL		16
1,2,4-Trichlorobenzene	<RL		2
1,2,4-Trimethylbenzene	<RL		6.5
1,2-Dibromo-3-chloropropane	<RL		13
1,2-Dichlorobenzene	<RL		1.5
1,2-Dichloroethane	<RL		3
1,2-Dichloropropane	<RL		2
1,2-Ethylene Dibromide	<RL		3
1,3,5-Trimethylbenzene	<RL		2.5
1,3-Dichlorobenzene	<RL		6
1,3-Dichloropropane	<RL		2
1,4-Dichlorobenzene	<RL		1.5
2,2-Dichloropropane	<RL		17.5
2-Chlorotoluene	<RL		2
4-Chlorotoluene	<RL		3
Benzene	<RL		1
Bromobenzene	<RL		1.5
Bromochloromethane	<RL		2
Bromodichloromethane	<RL		4
Bromoform	<RL		6
Bromomethane	<RL		5.5
Carbon tetrachloride	<RL		10.5
Chlorobenzene	<RL		2
Chloroethane	<RL		5
Chloroform	<RL		1.5
Chloromethane	0.87	J	6.5
cis-1,2-Dichloroethene	<RL		6
cis-1,3-Dichloropropene	<RL		5
Dibromochloromethane	<RL		2.5
Dibromomethane	<RL		12
Dichlorodifluoromethane	<RL		5
Ethylbenzene	<RL		3
Hexachlorobutadiene	<RL		5.5
Isopropylbenzene	<RL		2.5
Methylene chloride	1.1	J	1.5
Naphthalene	<RL		2
n-Butylbenzene	<RL		5.5
n-Propylbenzene	<RL		2
p-Isopropyltoluene	<RL		6
Sec-Butylbenzene	<RL		6.5
Styrene	<RL		2
Tert-Butylbenzene	<RL		7
Tetrachloroethylene	<RL		7
Toluene	<RL		5.5
Total Xylenes	<RL		5
trans-1,2-Dichloroethene	<RL		3
trans-1,3-Dichloropropene	<RL		5
Trichloroethylene	<RL		5
Trichlorofluoromethane	<RL		4
Vinyl chloride	<RL		5.5

ANALYSIS: X PAH Surrogates (Liquid) Method Ref: 8310

Date Ext/Dig/Prep: 5/29/01 Date Analyzed: 6/8/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
p-terphenyl d14 (Range 12-135)	52		

ANALYSIS: X PRO Sample Surrogates (Water) Method Ref: FL-PRO

Date Ext/Dig/Prep: 5/30/01 Date Analyzed: 6/4/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
C(39) (Range 42-193)	54		
o-Terphenyl (Range 82-142)	60	Z	

ANALYSIS: X VOC Sample Surrogates-Waters Method Ref: 5030B/8260B

Date Ext/Dig/Prep: 5/31/01 Date Analyzed: 5/31/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,2-Dichloroethane-d4 (81-132)	112		
4-Bromofluorobenzene (80-120)	117		
Toluene-d8 (80-119)	116		

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LABORATORY REPORT

Accura Sample ID #: **AC14034** **Accura Project #:** **27988**

Client: **CH2M HILL - CCI** Date Sampled: 5/24/01

Client Contact: JEFF WILMOTH Date Received: 5/25/01

Client Project Number: 154282 / CTO 0029 Date Reported: 6/13/01

Client Project Name: NAS CECIL FIELD 103rd ST ANNUAL GW Sample Matrix: WATER

Client Sample ID: **029-SMW08-Q2-01-12**

ANALYSIS: Metals - Lead Method Ref: 3010A/6010B

Date Ext/Dig/Prep: 6/6/01 Date Analyzed: 6/11/01 Result Units: mg/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Lead	0.16		0.010

ANALYSIS: PAH's by HPLC Method Ref: 8310

Date Ext/Dig/Prep: 5/29/01 Date Analyzed: 6/8/01 Result Units: ug/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1-Methylnapthalene	<RL		1.00
2-Methylnapthalene	<RL		1.00
Acenaphthene	<RL		1.00
Acenaphthylene	<RL		2.00
Anthracene	<RL		0.66
Benzo(a)anthracene	<RL		0.13
Benzo(a)pyrene	<RL		0.10
Benzo(b)fluoranthene	<RL		0.18
Benzo(g,h,i)perylene	<RL		0.76
Benzo(k)fluoranthene	<RL		0.17
Chrysene	<RL		0.15
Dibenzo(a,h)anthracene	<RL		0.30
Fluoranthene	<RL		0.21
Fluorene	<RL		0.50
Indeno(1,2,3-cd)pyrene	<RL		0.43
Naphthalene	<RL		1.00
Phenanthrene	<RL		0.64
Pyrene	<RL		0.27

ANALYSIS: Petroleum Range Organics (PRO) Method Ref: FL-PRO

Date Ext/Dig/Prep: 5/30/01 Date Analyzed: 6/4/01 Result Units: mg/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Petroleum Range Organics (PRO)	<RL		1.0

ANALYSIS: VOC's Navy (25 ml purge) Method Ref: 8260B

Date Ext/Dig/Prep: 5/31/01 Date Analyzed: 5/31/01 Result Units: ug/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,1,1,2-Tetrachloroethane	<RL		2.5
1,1,1-Trichloroethane	<RL		4
1,1,2,2-Tetrachloroethane	<RL		2

1,1,2-Trichloroethane	<RL		5
1,1-Dichloroethane	<RL		2
1,1-Dichloroethene	<RL		6
1,2,3-Trichlorobenzene	<RL		1.5
1,2,3-Trichloropropane	<RL		16
1,2,4-Trichlorobenzene	<RL		2
1,2,4-Trimethylbenzene	<RL		6.5
1,2-Dibromo-3-chloropropane	<RL		13
1,2-Dichlorobenzene	<RL		1.5
1,2-Dichloroethane	<RL		3
1,2-Dichloropropane	<RL		2
1,2-Ethylene Dibromide	<RL		3
1,3,5-Trimethylbenzene	<RL		2.5
1,3-Dichlorobenzene	<RL		6
1,3-Dichloropropane	<RL		2
1,4-Dichlorobenzene	<RL		1.5
2,2-Dichloropropane	<RL		17.5
2-Chlorotoluene	<RL		2
4-Chlorotoluene	<RL		3
Benzene	<RL		1
Bromobenzene	<RL		1.5
Bromochloromethane	<RL		2
Bromodichloromethane	<RL		4
Bromoform	<RL		6
Bromomethane	<RL		5.5
Carbon tetrachloride	<RL		10.5
Chlorobenzene	<RL		2
Chloroethane	<RL		5
Chloroform	<RL		1.5
Chloromethane	1.0	J	6.5
cis-1,2-Dichloroethene	<RL		6
cis-1,3-Dichloropropene	<RL		5
Dibromochloromethane	<RL		2.5
Dibromomethane	<RL		12
Dichlorodifluoromethane	<RL		5
Ethylbenzene	<RL		3
Hexachlorobutadiene	<RL		5.5
Isopropylbenzene	<RL		2.5
Methylene chloride	1.2	J	1.5
Naphthalene	<RL		2
n-Butylbenzene	<RL		5.5
n-Propylbenzene	<RL		2
p-Isopropyltoluene	<RL		6
Sec-Butylbenzene	<RL		6.5
Styrene	<RL		2
Tert-Butylbenzene	<RL		7
Tetrachloroethylene	<RL		7
Toluene	<RL		5.5
Total Xylenes	<RL		5
trans-1,2-Dichloroethene	<RL		3
trans-1,3-Dichloropropene	<RL		5
Trichloroethylene	<RL		5
Trichlorofluoromethane	<RL		4
Vinyl chloride	<RL		5.5

ANALYSIS: X PAH Surrogates (Liquid) Method Ref: 8310

Date Ext/Dig/Prep: 5/29/01 Date Analyzed: 6/8/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
p-terphenyl d14 (Range 12-135)	35		

ANALYSIS: X PRO Sample Surrogates (Water) Method Ref: FL-PRO

Date Ext/Dig/Prep: 5/30/01 Date Analyzed: 6/4/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
C(39) (Range 42-193)	45		
o-Terphenyl (Range 82-142)	10	Z	

ANALYSIS: X VOC Sample Surrogates-Waters Method Ref: 5030B/8260B

Date Ext/Dig/Prep: 5/31/01 Date Analyzed: 5/31/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,2-Dichloroethane-d4 (81-132)	123		
4-Bromofluorobenzene (80-120)	116		
Toluene-d8 (80-119)	113		

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LABORATORY REPORT

Accura Sample ID #: **AC14035** **Accura Project #:** **27988**

Client: **CH2M HILL - CCI** Date Sampled: 5/24/01

Client Contact: JEFF WILMOTH Date Received: 5/25/01

Client Project Number: 154282 / CTO 0029 Date Reported: 6/13/01

Client Project Name: NAS CECIL FIELD 103rd ST ANNUAL GW Sample Matrix: WATER

Client Sample ID: **029-SMW09-Q2-01-12**

ANALYSIS: Metals - Lead Method Ref: 3010A/6010B

Date Ext/Dig/Prep: 6/6/01 Date Analyzed: 6/11/01 Result Units: mg/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Lead	0.090		0.010

ANALYSIS: PAH's by HPLC Method Ref: 8310

Date Ext/Dig/Prep: 5/29/01 Date Analyzed: 6/8/01 Result Units: ug/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1-Methylnapthalene	<RL		1.02
2-Methylnapthalene	<RL		1.02
Acenaphthene	<RL		1.02
Acenaphthylene	<RL		2.04
Anthracene	<RL		0.67
Benzo(a)anthracene	<RL		0.13
Benzo(a)pyrene	<RL		0.10
Benzo(b)fluoranthene	<RL		0.18
Benzo(g,h,i)perylene	<RL		0.78
Benzo(k)fluoranthene	<RL		0.17
Chrysene	<RL		0.15
Dibenzo(a,h)anthracene	<RL		0.31
Fluoranthene	<RL		0.21
Fluorene	<RL		0.51
Indeno(1,2,3-cd)pyrene	<RL		0.44
Naphthalene	<RL		1.02
Phenanthrene	<RL		0.65
Pyrene	<RL		0.28

ANALYSIS: Petroleum Range Organics (PRO) Method Ref: FL-PRO

Date Ext/Dig/Prep: 5/30/01 Date Analyzed: 6/4/01 Result Units: mg/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Petroleum Range Organics (PRO)	1.0		1.0

ANALYSIS: VOC's Navy (25 ml purge) Method Ref: 8260B

Date Ext/Dig/Prep: 5/31/01 Date Analyzed: 5/31/01 Result Units: ug/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,1,1,2-Tetrachloroethane	<RL		2.5
1,1,1-Trichloroethane	<RL		4
1,1,2,2-Tetrachloroethane	<RL		2

1,1,2-Trichloroethane	<RL		5
1,1-Dichloroethane	<RL		2
1,1-Dichloroethene	<RL		6
1,2,3-Trichlorobenzene	<RL		1.5
1,2,3-Trichloropropane	<RL		16
1,2,4-Trichlorobenzene	<RL		2
1,2,4-Trimethylbenzene	<RL		6.5
1,2-Dibromo-3-chloropropane	<RL		13
1,2-Dichlorobenzene	<RL		1.5
1,2-Dichloroethane	<RL		3
1,2-Dichloropropane	<RL		2
1,2-Ethylene Dibromide	<RL		3
1,3,5-Trimethylbenzene	<RL		2.5
1,3-Dichlorobenzene	<RL		6
1,3-Dichloropropane	<RL		2
1,4-Dichlorobenzene	<RL		1.5
2,2-Dichloropropane	<RL		17.5
2-Chlorotoluene	<RL		2
4-Chlorotoluene	<RL		3
Benzene	<RL		1
Bromobenzene	<RL		1.5
Bromochloromethane	<RL		2
Bromodichloromethane	<RL		4
Bromoform	<RL		6
Bromomethane	<RL		5.5
Carbon tetrachloride	<RL		10.5
Chlorobenzene	<RL		2
Chloroethane	<RL		5
Chloroform	<RL		1.5
Chloromethane	0.78	J	6.5
cis-1,2-Dichloroethene	<RL		6
cis-1,3-Dichloropropene	<RL		5
Dibromochloromethane	<RL		2.5
Dibromomethane	<RL		12
Dichlorodifluoromethane	<RL		5
Ethylbenzene	<RL		3
Hexachlorobutadiene	<RL		5.5
Isopropylbenzene	<RL		2.5
Methylene chloride	1.1	J	1.5
Naphthalene	<RL		2
n-Butylbenzene	<RL		5.5
n-Propylbenzene	<RL		2
p-Isopropyltoluene	<RL		6
Sec-Butylbenzene	<RL		6.5
Styrene	<RL		2
Tert-Butylbenzene	<RL		7
Tetrachloroethylene	<RL		7
Toluene	<RL		5.5
Total Xylenes	<RL		5
trans-1,2-Dichloroethene	<RL		3
trans-1,3-Dichloropropene	<RL		5
Trichloroethylene	<RL		5
Trichlorofluoromethane	<RL		4
Vinyl chloride	<RL		5.5

ANALYSIS: X PAH Surrogates (Liquid) Method Ref: 8310

Date Ext/Dig/Prep: 5/29/01 Date Analyzed: 6/8/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
p-terphenyl d14 (Range 12-135)	41		

ANALYSIS: X PRO Sample Surrogates (Water) Method Ref: FL-PRO

Date Ext/Dig/Prep: 5/30/01 Date Analyzed: 6/4/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
C(39) (Range 42-193)	49		
o-Terphenyl (Range 82-142)	36	Z	

ANALYSIS: X VOC Sample Surrogates-Waters Method Ref: 5030B/8260B

Date Ext/Dig/Prep: 5/31/01 Date Analyzed: 5/31/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,2-Dichloroethane-d4 (81-132)	123		
4-Bromofluorobenzene (80-120)	111		
Toluene-d8 (80-119)	110		

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LABORATORY REPORT

Accura Sample ID #: **AC14036** **Accura Project #:** **27988**

Client: **CH2M HILL - CCI** Date Sampled: 5/24/01

Client Contact: JEFF WILMOTH Date Received: 5/25/01

Client Project Number: 154282 / CTO 0029 Date Reported: 6/13/01

Client Project Name: NAS CECIL FIELD 103rd ST ANNUAL GW Sample Matrix: WATER

Client Sample ID: **029-SMW10-Q2-01-12**

ANALYSIS: Metals - Lead Method Ref: 3010A/6010B

Date Ext/Dig/Prep: 6/6/01 Date Analyzed: 6/11/01 Result Units: mg/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Lead	0.065		0.010

ANALYSIS: PAH's by HPLC Method Ref: 8310

Date Ext/Dig/Prep: 5/29/01 Date Analyzed: 6/8/01 Result Units: ug/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1-Methylnapthalene	<RL		1.00
2-Methylnapthalene	<RL		1.00
Acenaphthene	<RL		1.00
Acenaphthylene	<RL		2.00
Anthracene	<RL		0.66
Benzo(a)anthracene	<RL		0.13
Benzo(a)pyrene	<RL		0.10
Benzo(b)fluoranthene	<RL		0.18
Benzo(g,h,i)perylene	<RL		0.76
Benzo(k)fluoranthene	<RL		0.17
Chrysene	<RL		0.15
Dibenzo(a,h)anthracene	<RL		0.30
Fluoranthene	<RL		0.21
Fluorene	<RL		0.50
Indeno(1.2,3-cd)pyrene	<RL		0.43
Naphthalene	<RL		1.00
Phenanthrene	<RL		0.64
Pyrene	<RL		0.27

ANALYSIS: Petroleum Range Organics (PRO) Method Ref: FL-PRO

Date Ext/Dig/Prep: 5/30/01 Date Analyzed: 6/5/01 Result Units: mg/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Petroleum Range Organics (PRO)	<RL		1.0

ANALYSIS: VOC's Navy (25 ml purge) Method Ref: 8260B

Date Ext/Dig/Prep: 5/31/01 Date Analyzed: 5/31/01 Result Units: ug/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,1,1,2-Tetrachloroethane	<RL		2.5
1,1,1-Trichloroethane	<RL		4
1,1,2,2-Tetrachloroethane	<RL		2

1,1,2-Trichloroethane	<RL		5
1,1-Dichloroethane	<RL		2
1,1-Dichloroethene	<RL		6
1,2,3-Trichlorobenzene	<RL		1.5
1,2,3-Trichloropropane	<RL		16
1,2,4-Trichlorobenzene	<RL		2
1,2,4-Trimethylbenzene	<RL		6.5
1,2-Dibromo-3-chloropropane	<RL		13
1,2-Dichlorobenzene	<RL		1.5
1,2-Dichloroethane	<RL		3
1,2-Dichloropropane	<RL		2
1,2-Ethylene Dibromide	<RL		3
1,3,5-Trimethylbenzene	<RL		2.5
1,3-Dichlorobenzene	<RL		6
1,3-Dichloropropane	<RL		2
1,4-Dichlorobenzene	<RL		1.5
2,2-Dichloropropane	<RL		17.5
2-Chlorotoluene	<RL		2
4-Chlorotoluene	<RL		3
Benzene	<RL		1
Bromobenzene	<RL		1.5
Bromochloromethane	<RL		2
Bromodichloromethane	<RL		4
Bromoform	<RL		6
Bromomethane	<RL		5.5
Carbon tetrachloride	<RL		10.5
Chlorobenzene	<RL		2
Chloroethane	<RL		5
Chloroform	<RL		1.5
Chloromethane	1.1	J	6.5
cis-1,2-Dichloroethene	<RL		6
cis-1,3-Dichloropropene	<RL		5
Dibromochloromethane	<RL		2.5
Dibromomethane	<RL		12
Dichlorodifluoromethane	<RL		5
Ethylbenzene	<RL		3
Hexachlorobutadiene	<RL		5.5
Isopropylbenzene	<RL		2.5
Methylene chloride	1.1	J	1.5
Naphthalene	<RL		2
n-Butylbenzene	<RL		5.5
n-Propylbenzene	<RL		2
p-Isopropyltoluene	<RL		6
Sec-Butylbenzene	<RL		6.5
Styrene	<RL		2
Tert-Butylbenzene	<RL		7
Tetrachloroethylene	<RL		7
Toluene	<RL		5.5
Total Xylenes	<RL		5
trans-1,2-Dichloroethene	<RL		3
trans-1,3-Dichloropropene	<RL		5
Trichloroethylene	<RL		5
Trichlorofluoromethane	<RL		4
Vinyl chloride	<RL		5.5

ANALYSIS: X PAH Surrogates (Liquid) Method Ref: 8310

Date Ext/Dig/Prep: 5/29/01 Date Analyzed: 6/8/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
p-terphenyl d14 (Range 12-135)	45		

ANALYSIS: X PRO Sample Surrogates (Water) Method Ref: FL-PRO

Date Ext/Dig/Prep: 5/30/01 Date Analyzed: 6/5/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
C(39) (Range 42-193)	42		
o-Terphenyl (Range 82-142)	69	Z	

ANALYSIS: X VOC Sample Surrogates-Waters Method Ref: 5030B/8260B

Date Ext/Dig/Prep: 5/31/01 Date Analyzed: 5/31/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,2-Dichloroethane-d4 (81-132)	123		
4-Bromofluorobenzene (80-120)	116		
Toluene-d8 (80-119)	114		

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LABORATORY REPORT

Accura Sample ID #: **AC14037** **Accura Project #:** **27988**

Client: **CH2M HILL - CCI** Date Sampled: 5/23/01

Client Contact: JEFF WILMOTH Date Received: 5/25/01

Client Project Number: 154282 / CTO 0029 Date Reported: 6/13/01

Client Project Name: NAS CECIL FIELD 103rd ST ANNUAL GW Sample Matrix: WATER

Client Sample ID: **029-SMW11-Q2-01-12**

ANALYSIS: Metals - Lead Method Ref: 3010A/6010B

Date Ext/Dig/Prep: 6/6/01 Date Analyzed: 6/11/01 Result Units: mg/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Lead	0.037		0.010

ANALYSIS: PAH's by HPLC Method Ref: 8310

Date Ext/Dig/Prep: 5/29/01 Date Analyzed: 6/8/01 Result Units: ug/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1-Methylnapthalene	10.9		1.02
2-Methylnapthalene	7.88		1.02
Acenaphthene	<RL		1.02
Acenaphthylene	<RL		2.04
Anthracene	<RL		0.67
Benzo(a)anthracene	<RL		0.13
Benzo(a)pyrene	<RL		0.10
Benzo(b)fluoranthene	<RL		0.18
Benzo(g,h,i)perylene	<RL		0.78
Benzo(k)fluoranthene	<RL		0.17
Chrysene	<RL		0.15
Dibenzo(a,h)anthracene	<RL		0.31
Fluoranthene	<RL		0.21
Fluorene	<RL		0.51
Indeno(1,2,3-cd)pyrene	<RL		0.44
Naphthalene	18.4		1.02
Phenanthrene	<RL		0.65
Pyrene	<RL		0.28

ANALYSIS: Petroleum Range Organics (PRO) Method Ref: FL-PRO

Date Ext/Dig/Prep: 5/30/01 Date Analyzed: 6/5/01 Result Units: mg/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Petroleum Range Organics (PRO)	6.4		1.0

ANALYSIS: VOC's Navy (25 ml purge) Method Ref: 8260B

Date Ext/Dig/Prep: 5/31/01 Date Analyzed: 5/31/01 Result Units: ug/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,1,1,2-Tetrachloroethane	<RL		2.5
1,1,1-Trichloroethane	<RL		4.0
1,1,2,2-Tetrachloroethane	<RL		2.0

1,1,2-Trichloroethane	<RL		5.0
1,1-Dichloroethane	<RL		2.0
1,1-Dichloroethene	<RL		6.0
1,2,3-Trichlorobenzene	<RL		1.5
1,2,3-Trichloropropane	<RL		16
1,2,4-Trichlorobenzene	<RL		2.0
1,2,4-Trimethylbenzene	61		32.5
1,2-Dibromo-3-chloropropane	<RL		13
1,2-Dichlorobenzene	<RL		1.5
1,2-Dichloroethane	<RL		3.0
1,2-Dichloropropane	<RL		2.0
1,2-Ethylene Dibromide	<RL		3.0
1,3,5-Trimethylbenzene	14		2.5
1,3-Dichlorobenzene	<RL		6.0
1,3-Dichloropropane	<RL		2.0
1,4-Dichlorobenzene	<RL		1.5
2,2-Dichloropropane	<RL		18
2-Chlorotoluene	<RL		2.0
4-Chlorotoluene	<RL		3.0
Benzene	<RL		1.0
Bromobenzene	<RL		1.5
Bromochloromethane	<RL		2.0
Bromodichloromethane	<RL		4.0
Bromoform	<RL		6.0
Bromomethane	<RL		5.5
Carbon tetrachloride	<RL		10
Chlorobenzene	<RL		2.0
Chloroethane	<RL		5.0
Chloroform	<RL		1.5
Chloromethane	<RL		6.5
cis-1,2-Dichloroethene	<RL		6.0
cis-1,3-Dichloropropene	<RL		5.0
Dibromochloromethane	<RL		2.5
Dibromomethane	<RL		12
Dichlorodifluoromethane	<RL		5.0
Ethylbenzene	23		3.0
Hexachlorobutadiene	<RL		5.5
Isopropylbenzene	11		2.5
Methylene chloride	1.0	J	1.5
Naphthalene	37		2.0
n-Butylbenzene	6.4		5.5
n-Propylbenzene	11		2.0
p-Isopropyltoluene	4.2	J	6.0
Sec-Butylbenzene	5.8	J	6.5
Styrene	<RL		2.0
Tert-Butylbenzene	<RL		7.0
Tetrachloroethylene	<RL		7.0
Toluene	<RL		5.5
Total Xylenes	29		5.0
trans-1,2-Dichloroethene	<RL		3.0
trans-1,3-Dichloropropene	<RL		5.0
Trichloroethylene	<RL		5.0
Trichlorofluoromethane	<RL		4.0
Vinyl chloride	<RL		5.5

ANALYSIS: X PAH Surrogates (Liquid) Method Ref: 8310

Date Ext/Dig/Prep: 5/29/01 Date Analyzed: 6/8/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
p-terphenyl d14 (Range 12-135)	60		

ANALYSIS: X PRO Sample Surrogates (Water) Method Ref: FL-PRO

Date Ext/Dig/Prep: 5/30/01 Date Analyzed: 6/5/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
C(39) (Range 42-193)	45		
o-Terphenyl (Range 82-142)	96		

ANALYSIS: X VOC Sample Surrogates-Waters Method Ref: 5030B/8260B

Date Ext/Dig/Prep: 5/31/01 Date Analyzed: 5/31/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,2-Dichloroethane-d4 (81-132)	111		
4-Bromofluorobenzene (80-120)	101		
Toluene-d8 (80-119)	105		

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LABORATORY REPORT

Accura Sample ID #: **AC14038** **Accura Project #:** **27988**

Client: **CH2M HILL - CCI** Date Sampled: 5/23/01

Client Contact: JEFF WILMOTH Date Received: 5/25/01

Client Project Number: 154282 / CTO 0029 Date Reported: 6/13/01

Client Project Name: NAS CECIL FIELD 103rd ST ANNUAL GW Sample Matrix: WATER

Client Sample ID: **029-SMW12-Q2-01-12**

ANALYSIS: Metals - Lead Method Ref: 3010A/6010B

Date Ext/Dig/Prep: 6/6/01 Date Analyzed: 6/11/01 Result Units: mg/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Lead	0.031		0.010

ANALYSIS: PAH's by HPLC Method Ref: 8310

Date Ext/Dig/Prep: 5/29/01 Date Analyzed: 6/8/01 Result Units: ug/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1-Methylnapthalene	<RL		1.01
2-Methylnapthalene	<RL		1.01
Acenaphthene	<RL		1.01
Acenaphthylene	<RL		2.02
Anthracene	<RL		0.67
Benzo(a)anthracene	<RL		0.13
Benzo(a)pyrene	<RL		0.10
Benzo(b)fluoranthene	<RL		0.18
Benzo(g,h,i)perylene	<RL		0.77
Benzo(k)fluoranthene	<RL		0.17
Chrysene	<RL		0.15
Dibenzo(a,h)anthracene	<RL		0.30
Fluoranthene	<RL		0.21
Fluorene	<RL		0.51
Indeno(1,2,3-cd)pyrene	<RL		0.43
Naphthalene	<RL		1.01
Phenanthrene	<RL		0.65
Pyrene	<RL		0.27

ANALYSIS: Petroleum Range Organics (PRO) Method Ref: FL-PRO

Date Ext/Dig/Prep: 5/30/01 Date Analyzed: 6/5/01 Result Units: mg/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Petroleum Range Organics (PRO)	1.1		1.0

ANALYSIS: VOC's Navy (25 ml purge) Method Ref: 8260B

Date Ext/Dig/Prep: 5/31/01 Date Analyzed: 5/31/01 Result Units: ug/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,1,1,2-Tetrachloroethane	<RL		2.5
1,1,1-Trichloroethane	<RL		4
1,1,2,2-Tetrachloroethane	<RL		2

1,1,2-Trichloroethane	<RL		5
1,1-Dichloroethane	<RL		2
1,1-Dichloroethene	<RL		6
1,2,3-Trichlorobenzene	<RL		1.5
1,2,3-Trichloropropane	<RL		16
1,2,4-Trichlorobenzene	<RL		2
1,2,4-Trimethylbenzene	<RL		6.5
1,2-Dibromo-3-chloropropane	<RL		13
1,2-Dichlorobenzene	<RL		1.5
1,2-Dichloroethane	<RL		3
1,2-Dichloropropane	<RL		2
1,2-Ethylene Dibromide	<RL		3
1,3,5-Trimethylbenzene	<RL		2.5
1,3-Dichlorobenzene	<RL		6
1,3-Dichloropropane	<RL		2
1,4-Dichlorobenzene	<RL		1.5
2,2-Dichloropropane	<RL		17.5
2-Chlorotoluene	<RL		2
4-Chlorotoluene	<RL		3
Benzene	<RL		1
Bromobenzene	<RL		1.5
Bromochloromethane	<RL		2
Bromodichloromethane	<RL		4
Bromoform	<RL		6
Bromomethane	<RL		5.5
Carbon tetrachloride	<RL		10.5
Chlorobenzene	<RL		2
Chloroethane	<RL		5
Chloroform	<RL		1.5
Chloromethane	0.51	J	6.5
cis-1,2-Dichloroethene	<RL		6
cis-1,3-Dichloropropene	<RL		5
Dibromochloromethane	<RL		2.5
Dibromomethane	<RL		12
Dichlorodifluoromethane	<RL		5
Ethylbenzene	<RL		3
Hexachlorobutadiene	<RL		5.5
Isopropylbenzene	<RL		2.5
Methylene chloride	1.2	J	1.5
Naphthalene	1.1	J	2
n-Butylbenzene	<RL		5.5
n-Propylbenzene	<RL		2
p-Isopropyltoluene	<RL		6
Sec-Butylbenzene	<RL		6.5
Styrene	<RL		2
Tert-Butylbenzene	<RL		7
Tetrachloroethylene	<RL		7
Toluene	<RL		5.5
Total Xylenes	<RL		5
trans-1,2-Dichloroethene	<RL		3
trans-1,3-Dichloropropene	<RL		5
Trichloroethylene	<RL		5
Trichlorofluoromethane	<RL		4
Vinyl chloride	<RL		5.5

ANALYSIS: X PAH Surrogates (Liquid) Method Ref: 8310

Date Ext/Dig/Prep: 5/29/01 Date Analyzed: 6/8/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
p-terphenyl d14 (Range 12-135)	47		

ANALYSIS: X PRO Sample Surrogates (Water) Method Ref: FL-PRO

Date Ext/Dig/Prep: 5/30/01 Date Analyzed: 6/5/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
C(39) (Range 42-193)	60		
o-Terphenyl (Range 82-142)	82		

ANALYSIS: X VOC Sample Surrogates-Waters Method Ref: 5030B/8260B

Date Ext/Dig/Prep: 5/31/01 Date Analyzed: 5/31/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,2-Dichloroethane-d4 (81-132)	113		
4-Bromofluorobenzene (80-120)	110		
Toluene-d8 (80-119)	107		

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LABORATORY REPORT

Accura Sample ID #: **AC14039** **Accura Project #:** **27988**

Client: **CH2M HILL - CCI** Date Sampled: 5/23/01

Client Contact: JEFF WILMOTH Date Received: 5/25/01

Client Project Number: 154282 / CTO 0029 Date Reported: 6/13/01

Client Project Name: NAS CECIL FIELD 103rd ST ANNUAL GW Sample Matrix: WATER

Client Sample ID: **029-DMW01-Q2-01-12**

ANALYSIS: Metals - Lead Method Ref: 3010A/6010B

Date Ext/Dig/Prep: 6/6/01 Date Analyzed: 6/11/01 Result Units: mg/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Lead	<RL		0.010

ANALYSIS: PAH's by HPLC Method Ref: 8310

Date Ext/Dig/Prep: 5/29/01 Date Analyzed: 6/8/01 Result Units: ug/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1-Methylnapthalene	<RL		1.01
2-Methylnapthalene	<RL		1.01
Acenaphthene	<RL		1.01
Acenaphthylene	<RL		2 02
Anthracene	<RL		0.67
Benzo(a)anthracene	<RL		0.13
Benzo(a)pyrene	<RL		0.10
Benzo(b)fluoranthene	<RL		0.18
Benzo(g,h,i)perylene	<RL		0.77
Benzo(k)fluoranthene	<RL		0.17
Chrysene	<RL		0.15
Dibenzo(a,h)anthracene	<RL		0.30
Fluoranthene	<RL		0.21
Fluorene	<RL		0.51
Indeno(1,2,3-cd)pyrene	<RL		0.43
Naphthalene	<RL		1.01
Phenanthrene	<RL		0.65
Pyrene	<RL		0.27

ANALYSIS: Petroleum Range Organics (PRO) Method Ref: FL-PRO

Date Ext/Dig/Prep: 5/30/01 Date Analyzed: 6/4/01 Result Units: mg/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Petroleum Range Organics (PRO)	<RL		1.0

ANALYSIS: VOC's Navy (25 ml purge) Method Ref: 8260B

Date Ext/Dig/Prep: 5/31/01 Date Analyzed: 5/31/01 Result Units: ug/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,1,1,2-Tetrachloroethane	<RL		2.5
1,1,1-Trichloroethane	<RL		4
1,1,2,2-Tetrachloroethane	<RL		2

1,1,2-Trichloroethane	<RL		5
1,1-Dichloroethane	<RL		2
1,1-Dichloroethene	<RL		6
1,2,3-Trichlorobenzene	<RL		1.5
1,2,3-Trichloropropane	<RL		16
1,2,4-Trichlorobenzene	<RL		2
1,2,4-Trimethylbenzene	<RL		6.5
1,2-Dibromo-3-chloropropane	<RL		13
1,2-Dichlorobenzene	<RL		1.5
1,2-Dichloroethane	<RL		3
1,2-Dichloropropane	<RL		2
1,2-Ethylene Dibromide	<RL		3
1,3,5-Trimethylbenzene	<RL		2.5
1,3-Dichlorobenzene	<RL		6
1,3-Dichloropropane	<RL		2
1,4-Dichlorobenzene	<RL		1.5
2,2-Dichloropropane	<RL		17.5
2-Chlorotoluene	<RL		2
4-Chlorotoluene	<RL		3
Benzene	<RL		1
Bromobenzene	<RL		1.5
Bromochloromethane	<RL		2
Bromodichloromethane	<RL		4
Bromoform	<RL		6
Bromomethane	<RL		5.5
Carbon tetrachloride	<RL		10.5
Chlorobenzene	<RL		2
Chloroethane	<RL		5
Chloroform	<RL		1.5
Chloromethane	1.3	J	6.5
cis-1,2-Dichloroethene	<RL		6
cis-1,3-Dichloropropene	<RL		5
Dibromochloromethane	<RL		2.5
Dibromomethane	<RL		12
Dichlorodifluoromethane	<RL		5
Ethylbenzene	<RL		3
Hexachlorobutadiene	<RL		5.5
Isopropylbenzene	<RL		2.5
Methylene chloride	1.1	J	1.5
Naphthalene	<RL		2
n-Butylbenzene	<RL		5.5
n-Propylbenzene	<RL		2
p-Isopropyltoluene	<RL		6
Sec-Butylbenzene	<RL		6.5
Styrene	<RL		2
Tert-Butylbenzene	<RL		7
Tetrachloroethylene	<RL		7
Toluene	<RL		5.5
Total Xylenes	<RL		5
trans-1,2-Dichloroethene	<RL		3
trans-1,3-Dichloropropene	<RL		5
Trichloroethylene	<RL		5
Trichlorofluoromethane	<RL		4
Vinyl chloride	<RL		5.5

ANALYSIS: X PAH Surrogates (Liquid) Method Ref: 8310

Date Ext/Dig/Prep: 5/29/01 Date Analyzed: 6/8/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
p-terphenyl d14 (Range 12-135)	69		

ANALYSIS: X PRO Sample Surrogates (Water) Method Ref: FL-PRO

Date Ext/Dig/Prep: 5/30/01 Date Analyzed: 6/4/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
C(39) (Range 42-193)	31	Z	
o-Terphenyl (Range 82-142)	97		

ANALYSIS: X VOC Sample Surrogates-Waters Method Ref: 5030B/8260B

Date Ext/Dig/Prep: 5/31/01 Date Analyzed: 5/31/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,2-Dichloroethane-d4 (81-132)	118		
4-Bromofluorobenzene (80-120)	113		
Toluene-d8 (80-119)	111		

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LABORATORY REPORT

Accura Sample ID #: **AC14040** **Accura Project #:** **27988**

Client: **CH2M HILL - CCI** Date Sampled: 5/24/01

Client Contact: JEFF WILMOTH Date Received: 5/25/01

Client Project Number: 154282 / CTO 0029 Date Reported: 6/13/01

Client Project Name: NAS CECIL FIELD 103rd ST ANNUAL GW Sample Matrix: WATER

Client Sample ID: **029-DUP-Q2-01-12**

ANALYSIS: Metals - Lead Method Ref: 3010A/6010B

Date Ext/Dig/Prep: 6/6/01 Date Analyzed: 6/11/01 Result Units: mg/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Lead	0.094		0.010

ANALYSIS: PAH's by HPLC Method Ref: 8310

Date Ext/Dig/Prep: 5/29/01 Date Analyzed: 6/8/01 Result Units: ug/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1-Methylnapthalene	<RL		1.02
2-Methylnapthalene	<RL		1.02
Acenaphthene	<RL		1.02
Acenaphthylene	<RL		2.04
Anthracene	<RL		0.67
Benzo(a)anthracene	<RL		0.13
Benzo(a)pyrene	<RL		0.10
Benzo(b)fluoranthene	<RL		0.18
Benzo(g,h,i)perylene	<RL		0.78
Benzo(k)fluoranthene	<RL		0.17
Chrysene	<RL		0.15
Dibenzo(a,h)anthracene	<RL		0.31
Fluoranthene	<RL		0.21
Fluorene	<RL		0.51
Indeno(1,2,3-cd)pyrene	<RL		0.44
Naphthalene	<RL		1.02
Phenanthrene	<RL		0.65
Pyrene	<RL		0.28

ANALYSIS: Petroleum Range Organics (PRO) Method Ref: FL-PRO

Date Ext/Dig/Prep: 5/30/01 Date Analyzed: 6/5/01 Result Units: mg/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Petroleum Range Organics (PRO)	<RL		10

ANALYSIS: VOC's Navy (25 ml purge) Method Ref: 8260B

Date Ext/Dig/Prep: 5/31/01 Date Analyzed: 5/31/01 Result Units: ug/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,1,1,2-Tetrachloroethane	<RL		2.5
1,1,1-Trichloroethane	<RL		4
1,1,2,2-Tetrachloroethane	<RL		2

1,1,2-Trichloroethane	<RL		5
1,1-Dichloroethane	<RL		2
1,1-Dichloroethene	<RL		6
1,2,3-Trichlorobenzene	<RL		1.5
1,2,3-Trichloropropane	<RL		16
1,2,4-Trichlorobenzene	<RL		2
1,2,4-Trimethylbenzene	<RL		6.5
1,2-Dibromo-3-chloropropane	<RL		13
1,2-Dichlorobenzene	<RL		1.5
1,2-Dichloroethane	<RL		3
1,2-Dichloropropane	<RL		2
1,2-Ethylene Dibromide	<RL		3
1,3,5-Trimethylbenzene	<RL		2.5
1,3-Dichlorobenzene	<RL		6
1,3-Dichloropropane	<RL		2
1,4-Dichlorobenzene	<RL		1.5
2,2-Dichloropropane	<RL		17.5
2-Chlorotoluene	<RL		2
4-Chlorotoluene	<RL		3
Benzene	<RL		1
Bromobenzene	<RL		1.5
Bromochloromethane	<RL		2
Bromodichloromethane	<RL		4
Bromoform	<RL		6
Bromomethane	<RL		5.5
Carbon tetrachloride	<RL		10.5
Chlorobenzene	<RL		2
Chloroethane	<RL		5
Chloroform	<RL		1.5
Chloromethane	0.94	J	6.5
cis-1,2-Dichloroethene	<RL		6
cis-1,3-Dichloropropene	<RL		5
Dibromochloromethane	<RL		2.5
Dibromomethane	<RL		12
Dichlorodifluoromethane	<RL		5
Ethylbenzene	<RL		3
Hexachlorobutadiene	<RL		5.5
Isopropylbenzene	<RL		2.5
Methylene chloride	1.5	J	1.5
Naphthalene	<RL		2
n-Butylbenzene	<RL		5.5
n-Propylbenzene	<RL		2
p-Isopropyltoluene	<RL		6
Sec-Butylbenzene	<RL		6.5
Styrene	<RL		2
Tert-Butylbenzene	<RL		7
Tetrachloroethylene	<RL		7
Toluene	<RL		5.5
Total Xylenes	<RL		5
trans-1,2-Dichloroethene	<RL		3
trans-1,3-Dichloropropene	<RL		5
Trichloroethylene	<RL		5
Trichlorofluoromethane	<RL		4
Vinyl chloride	<RL		5.5

ANALYSIS: X PAH Surrogates (Liquid) Method Ref: 8310

Date Ext/Dig/Prep: 5/29/01 Date Analyzed: 6/8/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
p-terphenyl d14 (Range 12-135)	51		

ANALYSIS: X PRO Sample Surrogates (Water) Method Ref: FL-PRO

Date Ext/Dig/Prep: 5/30/01 Date Analyzed: 6/5/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
C(39) (Range 42-193)	10	Z	
o-Terphenyl (Range 82-142)	59	Z	

ANALYSIS: X VOC Sample Surrogates-Waters Method Ref: 5030B/8260B

Date Ext/Dig/Prep: 5/31/01 Date Analyzed: 5/31/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,2-Dichloroethane-d4 (81-132)	117		
4-Bromofluorobenzene (80-120)	107		
Toluene-d8 (80-119)	107		

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LABORATORY REPORT

Accura Sample ID #: **AC14041** **Accura Project #:** **27988**

Client: **CH2M HILL - CCI** Date Sampled: 5/24/01

Client Contact: JEFF WILMOTH Date Received: 5/25/01

Client Project Number: 154282 / CTO 0029 Date Reported: 6/13/01

Client Project Name: NAS CECIL FIELD 103rd ST ANNUAL GW Sample Matrix: WATER

Client Sample ID: **029-EQB-Q2-01-12**

ANALYSIS: Metals - Lead Method Ref: 3010A/6010B

Date Ext/Dig/Prep: 6/6/01 Date Analyzed: 6/11/01 Result Units: mg/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Lead	<RL		0.010

ANALYSIS: PAH's by HPLC Method Ref: 8310

Date Ext/Dig/Prep: 5/29/01 Date Analyzed: 6/8/01 Result Units: ug/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1-Methylnapthalene	<RL		1.09
2-Methylnapthalene	<RL		1.09
Acenaphthene	<RL		1.09
Acenaphthylene	<RL		2.17
Anthracene	<RL		0.72
Benzo(a)anthracene	<RL		0.14
Benzo(a)pyrene	<RL		0.11
Benzo(b)fluoranthene	<RL		0.20
Benzo(g,h,i)perylene	<RL		0.83
Benzo(k)fluoranthene	<RL		0.18
Chrysene	<RL		0.16
Dibenzo(a,h)anthracene	<RL		0.33
Fluoranthene	<RL		0.23
Fluorene	<RL		0.54
Indeno(1,2,3-cd)pyrene	<RL		0.47
Naphthalene	<RL		1.09
Phenanthrene	<RL		0.70
Pyrene	<RL		0.29

ANALYSIS: Petroleum Range Organics (PRO) Method Ref: FL-PRO

Date Ext/Dig/Prep: 5/30/01 Date Analyzed: 6/5/01 Result Units: mg/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Petroleum Range Organics (PRO)	<RL		1.0

ANALYSIS: VOC's Navy (25 ml purge) Method Ref: 8260B

Date Ext/Dig/Prep: 5/31/01 Date Analyzed: 5/31/01 Result Units: ug/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,1,1.2-Tetrachloroethane	<RL		2.5
1,1,1-Trichloroethane	<RL		4
1,1,2,2-Tetrachloroethane	<RL		2

1,1,2-Trichloroethane	<RL		5
1,1-Dichloroethane	<RL		2
1,1-Dichloroethene	<RL		6
1,2,3-Trichlorobenzene	<RL		1.5
1,2,3-Trichloropropane	<RL		16
1,2,4-Trichlorobenzene	<RL		2
1,2,4-Trimethylbenzene	<RL		6.5
1,2-Dibromo-3-chloropropane	<RL		13
1,2-Dichlorobenzene	<RL		1.5
1,2-Dichloroethane	<RL		3
1,2-Dichloropropane	<RL		2
1,2-Ethylene Dibromide	<RL		3
1,3,5-Trimethylbenzene	<RL		2.5
1,3-Dichlorobenzene	<RL		6
1,3-Dichloropropane	<RL		2
1,4-Dichlorobenzene	<RL		1.5
2,2-Dichloropropane	<RL		17.5
2-Chlorotoluene	<RL		2
4-Chlorotoluene	<RL		3
Benzene	<RL		1
Bromobenzene	<RL		1.5
Bromochloromethane	<RL		2
Bromodichloromethane	<RL		4
Bromoform	<RL		6
Bromomethane	<RL		5.5
Carbon tetrachloride	<RL		10.5
Chlorobenzene	<RL		2
Chloroethane	<RL		5
Chloroform	<RL		1.5
Chloromethane	0.52	J	6.5
cis-1,2-Dichloroethene	<RL		6
cis-1,3-Dichloropropene	<RL		5
Dibromochloromethane	<RL		2.5
Dibromomethane	<RL		12
Dichlorodifluoromethane	<RL		5
Ethylbenzene	<RL		3
Hexachlorobutadiene	<RL		5.5
Isopropylbenzene	<RL		2.5
Methylene chloride	2.8		1.5
Naphthalene	<RL		2
n-Butylbenzene	<RL		5.5
n-Propylbenzene	<RL		2
p-Isopropyltoluene	<RL		6
Sec-Butylbenzene	<RL		6.5
Styrene	<RL		2
Tert-Butylbenzene	<RL		7
Tetrachloroethylene	<RL		7
Toluene	<RL		5.5
Total Xylenes	<RL		5
trans-1,2-Dichloroethene	<RL		3
trans-1,3-Dichloropropene	<RL		5
Trichloroethylene	<RL		5
Trichlorofluoromethane	<RL		4
Vinyl chloride	<RL		5.5

ANALYSIS: X PAH Surrogates (Liquid) Method Ref: 8310

Date Ext/Dig/Prep: 5/29/01 Date Analyzed: 6/8/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
p-terphenyl d14 (Range 12-135)	58		

ANALYSIS: X PRO Sample Surrogates (Water) Method Ref: FL-PRO

Date Ext/Dig/Prep: 5/30/01 Date Analyzed: 6/5/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
C(39) (Range 42-193)	24	Z	
o-Terphenyl (Range 82-142)	84		

ANALYSIS: X VOC Sample Surrogates-Waters Method Ref: 5030B/8260B

Date Ext/Dig/Prep: 5/31/01 Date Analyzed: 5/31/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,2-Dichloroethane-d4 (81-132)	121		
4-Bromofluorobenzene (80-120)	112		
Toluene-d8 (80-119)	113		

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LABORATORY REPORT

Accura Sample ID #: **AC14042** **Accura Project #:** **27988**

Client: **CH2M HILL - CCI** Date Sampled: 5/23/01

Client Contact: JEFF WILMOTH Date Received: 5/25/01

Client Project Number: 154282 / CTO 0029 Date Reported: 6/13/01

Client Project Name: NAS CECIL FIELD 103rd ST ANNUAL GW Sample Matrix: WATER

Client Sample ID: **029-TB-Q2-01-12**

ANALYSIS: **VOC's Navy (25 ml purge)** Method Ref: 8260B

Date Ext/Dig/Prep: 5/31/01 Date Analyzed: 5/31/01 Result Units: ug/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,1,1,2-Tetrachloroethane	<RL		2.5
1,1,1-Trichloroethane	<RL		4
1,1,2,2-Tetrachloroethane	<RL		2
1,1,2-Trichloroethane	<RL		5
1,1-Dichloroethane	<RL		2
1,1-Dichloroethene	<RL		6
1,2,3-Trichlorobenzene	<RL		1.5
1,2,3-Trichloropropane	<RL		16
1,2,4-Trichlorobenzene	<RL		2
1,2,4-Trimethylbenzene	<RL		6.5
1,2-Dibromo-3-chloropropane	<RL		13
1,2-Dichlorobenzene	<RL		1.5
1,2-Dichloroethane	<RL		3
1,2-Dichloropropane	<RL		2
1,2-Ethylene Dibromide	<RL		3
1,3,5-Trimethylbenzene	<RL		2.5
1,3-Dichlorobenzene	<RL		6
1,3-Dichloropropane	<RL		2
1,4-Dichlorobenzene	<RL		1.5
2,2-Dichloropropane	<RL		17.5
2-Chlorotoluene	<RL		2
4-Chlorotoluene	<RL		3
Benzene	<RL		1
Bromobenzene	<RL		1.5
Bromochloromethane	<RL		2
Bromodichloromethane	<RL		4
Bromoform	<RL		6
Bromomethane	<RL		5.5
Carbon tetrachloride	<RL		10.5
Chlorobenzene	<RL		2
Chloroethane	<RL		5
Chloroform	<RL		1.5
Chloromethane	<RL		6.5
cis-1,2-Dichloroethene	<RL		6
cis-1,3-Dichloropropene	<RL		5
Dibromochloromethane	<RL		2.5

Dibromomethane	<RL	12
Dichlorodifluoromethane	<RL	5
Ethylbenzene	<RL	3
Hexachlorobutadiene	<RL	5.5
Isopropylbenzene	<RL	2.5
Methylene chloride	1.7	1.5
Naphthalene	<RL	2
n-Butylbenzene	<RL	5.5
n-Propylbenzene	<RL	2
p-Isopropyltoluene	<RL	6
Sec-Butylbenzene	<RL	6.5
Styrene	<RL	2
Tert-Butylbenzene	<RL	7
Tetrachloroethylene	<RL	7
Toluene	<RL	5.5
Total Xylenes	<RL	5
trans-1,2-Dichloroethene	<RL	3
trans-1,3-Dichloropropene	<RL	5
Trichloroethylene	<RL	5
Trichlorofluoromethane	<RL	4
Vinyl chloride	<RL	5.5

ANALYSIS: X VOC Sample Surrogates-Waters Method Ref: 5030B/8260B

Date Ext/Dig/Prep: 5/31/01 Date Analyzed: 5/31/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,2-Dichloroethane-d4 (81-132)	131		
4-Bromofluorobenzene (80-120)	112		
Toluene-d8 (80-119)	113		

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LABORATORY REPORT

Accura Sample ID #: **AC14043** **Accura Project #:** **27988**

Client: **CH2M HILL - CCI** Date Sampled: 5/25/01

Client Contact: JEFF WILMOTH Date Received: 5/25/01

Client Project Number: 154282 / CTO 0029 Date Reported: 6/13/01

Client Project Name: NAS CECIL FIELD 103rd ST ANNUAL GW Sample Matrix: WATER

Client Sample ID: **METHOD BLANK**

ANALYSIS: Metals - Lead Method Ref: 3010A/6010B

Date Ext/Dig/Prep: 6/6/01 Date Analyzed: 6/8/01 Result Units: mg/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Lead	<RL		0.010

ANALYSIS: PAH's by HPLC Method Ref: 8310

Date Ext/Dig/Prep: 5/29/01 Date Analyzed: 6/8/01 Result Units: ug/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1-Methylnapthalene	<RL		1.00
2-Methylnapthalene	<RL		1.00
Acenaphthene	<RL		1.00
Acenaphthylene	<RL		2.00
Anthracene	<RL		0.66
Benzo(a)anthracene	<RL		0.13
Benzo(a)pyrene	<RL		0.10
Benzo(b)fluoranthene	<RL		0.18
Benzo(g,h,i)perylene	<RL		0.76
Benzo(k)fluoranthene	<RL		0.17
Chrysene	<RL		0.15
Dibenzo(a,h)anthracene	<RL		0.30
Fluoranthene	<RL		0.21
Fluorene	<RL		0.50
Indeno(1,2,3-cd)pyrene	<RL		0.43
Naphthalene	<RL		1.00
Phenanthrene	<RL		0.64
Pyrene	<RL		0.27

ANALYSIS: Petroleum Range Organics (PRO) Method Ref: FL-PRO

Date Ext/Dig/Prep: 5/30/01 Date Analyzed: 6/4/01 Result Units: mg/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
Petroleum Range Organics (PRO)	<RL		1.0

ANALYSIS: VOC's Navy (25 ml purge) Method Ref: 8260B

Date Ext/Dig/Prep: 5/31/01 Date Analyzed: 5/31/01 Result Units: ug/L

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,1,1,2-Tetrachloroethane	<RL		2.5
1,1,1-Trichloroethane	<RL		4
1,1,2,2-Tetrachloroethane	<RL		2

1,1,2-Trichloroethane	<RL	5
1,1-Dichloroethane	<RL	2
1,1-Dichloroethene	<RL	6
1,2,3-Trichlorobenzene	<RL	1.5
1,2,3-Trichloropropane	<RL	16
1,2,4-Trichlorobenzene	<RL	2
1,2,4-Trimethylbenzene	<RL	6.5
1,2-Dibromo-3-chloropropane	<RL	13
1,2-Dichlorobenzene	<RL	1.5
1,2-Dichloroethane	<RL	3
1,2-Dichloropropane	<RL	2
1,2-Ethylene Dibromide	<RL	3
1,3,5-Trimethylbenzene	<RL	2.5
1,3-Dichlorobenzene	<RL	6
1,3-Dichloropropane	<RL	2
1,4-Dichlorobenzene	<RL	1.5
2,2-Dichloropropane	<RL	17.5
2-Chlorotoluene	<RL	2
4-Chlorotoluene	<RL	3
Benzene	<RL	1
Bromobenzene	<RL	1.5
Bromochloromethane	<RL	2
Bromodichloromethane	<RL	4
Bromoform	<RL	6
Bromomethane	<RL	5.5
Carbon tetrachloride	<RL	10.5
Chlorobenzene	<RL	2
Chloroethane	<RL	5
Chloroform	<RL	1.5
Chloromethane	<RL	6.5
cis-1,2-Dichloroethene	<RL	6
cis-1,3-Dichloropropene	<RL	5
Dibromochloromethane	<RL	2.5
Dibromomethane	<RL	12
Dichlorodifluoromethane	<RL	5
Ethylbenzene	<RL	3
Hexachlorobutadiene	<RL	5.5
Isopropylbenzene	<RL	2.5
Methylene chloride	<RL	1.5
Naphthalene	<RL	2
n-Butylbenzene	<RL	5.5
n-Propylbenzene	<RL	2
p-Isopropyltoluene	<RL	6
Sec-Butylbenzene	<RL	6.5
Styrene	<RL	2
Tert-Butylbenzene	<RL	7
Tetrachloroethylene	<RL	7
Toluene	<RL	5.5
Total Xylenes	<RL	5
trans-1,2-Dichloroethene	<RL	3
trans-1,3-Dichloropropene	<RL	5
Trichloroethylene	<RL	5
Trichlorofluoromethane	<RL	4
Vinyl chloride	<RL	5.5

ANALYSIS: X PAH Surrogates (Liquid) Method Ref: 8310

Date Ext/Dig/Prep: 5/29/01 Date Analyzed: 6/8/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
p-terphenyl d14 (Range 12-135)	91		

ANALYSIS: X PRO QC Surrogates (Water) Method Ref: FL-PRO

Date Ext/Dig/Prep: 5/30/01 Date Analyzed: 6/4/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
C(39) (Range 42-193)	9.0	Z	
o-Terphenyl (Range 82-142)	93		

ANALYSIS: X VOC QC Surrogates-Waters Method Ref: 5030B/8260B

Date Ext/Dig/Prep: 5/31/01 Date Analyzed: 5/31/01 Result Units: %

Analyte Name	Analytical Results	Qualifier	Reported Detection Limits
1,2-Dichloroethane-d4 (83-124)	106		
4-Bromofluorobenzene (81-118)	112		
Toluene-d8 (84-115)	114		

PROJECT QUALITY CONTROL RESULTS
AAL PROJECT #27988

		Project Control Rec				Accuracy Limits		Project Control		Precision Limits		Project Control Recoveries		Accuracy Limits		Project Control		Precision Limits	
		MS	MSD	MS	MS	MS/MSD Recoveries		MS/MSD % Deviation		MS/MSD Deviation		LCS	LCS	LCS Recoveries		Field Dup % Deviation		Field Dup Deviation	
Method No[1]	Analyte / Component	Water		Soil[2]		Water	Soil[2]	Water	Soil[2]	Water	Soil[2]	Water	Soil[2]	Water	Soil[2]	Water	Soil[2]	Water	Soil[2]
	VOLATILES BY GC/MS					%	%			%	%			%	%			%	%
8260B	1,1,1,2-Tetrachloroethane	102	104			60-140	20-150	3%		<30	<50	106		62-108	62-108			<50	<75
8260B	1,1,1-Trichloroethane	106	108			60-140	20-150	2%		<30	<50	109		65-135	65-135			<50	<75
8260B	1,1,2,2-Tetrachloroethane	130	123			60-140	20-150	6%		<30	<50	117		64-135	64-135			<50	<75
8260B	1,1,2-Trichloroethane	109	106			60-140	20-150	3%		<30	<50	103		65-135	65-135			<50	<75
8260B	1,1-Dichloroethane	108	123			60-140	20-150	14%		<30	<50	110		62-135	62-135			<50	<75
8260B	1,1-Dichloroethene	102	115			60-140	20-150	12%		<30	<50	112		65-135	65-135			<50	<75
8260B	1,2,3-Trichlorobenzene	104	118			60-140	20-150	13%		<30	<50	107		65-147	65-147			<50	<75
8260B	1,2,3-Trichloropropane	119	110			60-140	20-150	8%		<30	<50	106		65-135	65-135			<50	<75
8260B	1,2,4-Trichlorobenzene	103	116			60-140	20-150	11%		<30	<50	110		65-145	65-145			<50	<75
8260B	1,2,4-Trimethylbenzene	99	108			60-140	20-150	8%		<30	<50	107		65-135	65-135			<50	<75
8260B	1,2-Dichloroethane	114	113			60-140	20-150	1%		<30	<50	107		58-137	58-137			<50	<75
8260B	1,2-Dichlorobenzene	100	106			60-140	20-150	6%		<30	<50	107		65-135	65-135			<50	<75
8260B	1,2-Dibromo-3-chloropropane	104	112			60-140	20-150	8%		<30	<50	98		49-135	49-135			<50	<75
8260B	1,2-Dichloropropane	116	121			60-140	20-150	5%		<30	<50	113		60-135	60-135			<50	<75
8260B	1,2-Ethylene Dibromide	115	104			60-140	20-150	9%		<30	<50	101		65-135	65-135			<50	<75
8260B	1,3,5-Trimethylbenzene	98	105			60-140	20-150	7%		<30	<50	110		62-135	62-135			<50	<75
8260B	1,3-Dichlorobenzene	100	107			60-140	20-150	7%		<30	<50	111		65-135	65-135			<50	<75
8260B	1,3-Dichloropropane	102	103			60-140	20-150	1%		<30	<50	118		65-135	65-135			<50	<75
8260B	1,4-Dichlorobenzene	97	104			60-140	20-150	7%		<30	<50	106		65-135	65-135			<50	<75
8260B	2,2-Dichloropropane	102	103			60-140	20-150	1%		<30	<50	118		65-135	65-135			<50	<75
8260B	2-Chlorotoluene	97	104			60-140	20-150	6%		<30	<50	108		63-135	63-135			<50	<75
8260B	4-Chlorotoluene	92	97			60-140	20-150	5%		<30	<50	114		64-135	64-135			<50	<75
8260B	Benzene	113	116			60-140	20-150	3%		<30	<50	114		65-135	65-135			<50	<75
8260B	Bromobenzene	106	109			60-140	20-150	2%		<30	<50	111		65-135	65-135			<50	<75
8260B	Bromochloromethane	112	114			60-140	20-150	2%		<30	<50	112		63-135	63-135			<50	<75
8260B	Bromodichloromethane	105	117			60-140	20-150	11%		<30	<50	113		65-135	65-135			<50	<75
8260B	Bromoform	117	110			60-140	20-150	7%		<30	<50	105		65-135	65-135			<50	<75
8260B	Bromomethane	108	120			60-140	20-150	10%		<30	<50	93		62-135	62-135			<50	<75
8260B	Carbon Tetrachloride	107	110			60-140	20-150	3%		<30	<50	110		52-135	52-135			<50	<75
8260B	Chlorobenzene	99	102			60-140	20-150	3%		<30	<50	104		65-135	65-135			<50	<75
8260B	Chloroethane	100	110			60-140	20-150	9%		<30	<50	106		55-135	55-135			<50	<75
8260B	Chloroform	109	114			60-140	20-150	4%		<30	<50	111		64-135	64-135			<50	<75
8260B	Chloromethane	90	106			60-140	20-150	16%		<30	<50	105		65-135	65-135			<50	<75
8260B	Cis-1,2-Dichloroethene	113	116			60-140	20-150	2%		<30	<50	113		65-135	65-135			<50	<75
8260B	Cis-1,3-Dichloropropene	107	116			60-140	20-150	8%		<30	<50	115		64-135	64-135			<50	<75
8260B	Dibromochloromethane	107	106			60-140	20-150	1%		<30	<50	105		63-135	63-135			<50	<75
8260B	Dibromomethane	119	115			60-140	20-150	4%		<30	<50	112		59-137	59-137			<50	<75
8260B	Dichlorodifluoromethane	79	87			60-140	20-150	9%		<30	<50	85		65-135	65-135			<50	<75
8260B	Ethylbenzene	95	98			60-140	20-150	3%		<30	<50	104		65-135	65-135			<50	<75
8260B	Hexachlorobutadiene	95	112			60-140	20-150	16%		<30	<50	111		65-135	65-135			<50	<75
8260B	Isopropylbenzene	96	100			60-140	20-150	4%		<30	<50	106		65-135	65-135			<50	<75
8260B	total-Xylene	92	96			60-140	20-150	5%		<30	<50	104		65-135	65-135			<50	<75
8260B	Methylene Chloride	106	122			60-140	20-150	14%		<30	<50	111		65-135	65-135			<50	<75
8260B	n-Butylbenzene	99	112			60-140	20-150	12%		<30	<50	104		65-135	65-135			<50	<75
8260B	n-Propylbenzene	93	100			60-140	20-150	7%		<30	<50	105		65-135	65-135			<50	<75

Notes
1) SW-846 Methods unless otherwise noted
2) Includes sediments, waste solids

NS = Not Specified
NA = Not Applicable

PROJECT QUALITY CONTROL RESULTS
AAL PROJECT #27988

		Project Control Rec				Accuracy Limits		Project Control		Precision Limits		Project Control Recoveries		Accuracy Limits		Project Control		Precision Limits	
		MS	MSD	MS	MS	MS/MSD Recoveries		MS/MSD % Deviation		MS/MSD Deviation		LCS	LCS	LCS Recoveries		Field Dup % Deviation		Field Dup Deviation	
Method No[1]	Analyte / Component	Water		Soil[2]		Water	Soil[2]	Water	Soil[2]	Water	Soil[2]	Water	Soil[2]	Water	Soil[2]	Water	Soil[2]	Water	Soil[2]
8260B	Naphthalene	119	133			60-140	20-150	11%		<30	<50	107		65-135	65-135			<50	<75
8260B	p-Isopropyltoluene	90	103			60-140	20-150	14%		<30	<50	105		65-135	65-135			<50	<75
8260B	Sec-Butylbenzene	93	104			60-140	20-150	11%		<30	<50	105		65-135	65-135			<50	<75
8260B	Styrene	91	95			60-140	20-150	4%		<30	<50	103		65-135	65-135			<50	<75
8260B	Trichloroethylene	106	111			60-140	20-150	4%		<30	<50	111		61-135	61-135			<50	<75
8260B	Tert-Butylbenzene	91	101			60-140	20-150	10%		<30	<50	107		65-135	65-135			<50	<75
8260B	Tetrachloroethylene	97	100			60-140	20-150	3%		<30	<50	103		61-135	61-135			<50	<75
8260B	Toluene	101	105			60-140	20-150	4%		<30	<50	107		64-135	64-135			<50	<75
8260B	Trans-1,2-Dichloroethene	108	121			60-140	20-150	12%		<30	<50	115		65-135	65-135			<50	<75
8260B	Trans-1,3-Dichloropropene	100	95			60-140	20-150	5%		<30	<50	97		56-135	56-135			<50	<75
8260B	Trichlorofluoromethane	101	110			60-140	20-150	8%		<30	<50	100		57-135	57-135			<50	<75
8260B	Vinyl Chloride	98	104			60-140	20-150	6%		<30	<50	104		36-144	36-144			<50	<75
8260B	Toluene-d8 (surr)	103	108			75-125	65-135	4%		NA	NA	108		NA	NA			NA	NA
8260B	4-Bromofluorobenzene (surr)	102	105			75-125	65-135	3%		NA	NA	108		NA	NA			NA	NA
8260B	1,2-Dichloroethane-d4 (surr)	113	113			62-139	52-149	1%		NA	NA	110		NA	NA			NA	NA

	METALS BY ICP					%	%			%	%			%	%			%	%
6010B	Lead	107	82			50-150	30-170	26%	#DIV/0!	<30	<50	97		79-116	79-116			<50	<75

	PETROLEUM HYDROCARBONS					%	%			%	%			%	%			%	%
FL-PRO	TPH	54	55			50-150	30-170	2%	#DIV/0!	<30	<50	76		75-125	70-130			<50	<75

Notes
1) SW-846 Methods unless otherwise noted
2) Includes sediments waste, solids

NS = Not Specified
NA = Not Applicable

CH2M Hill Constructors, Inc.
115 Perimeter Center Place, Suite 700
Atlanta, GA 30346-1278
Tel No (770) 604-9182 ; Fax No (770) 604-9282

AAL# 27988
ABL / 2°C.

CHAIN-OF-CUSTODY RECORD

COC NUMBER
154282-17

PROJECT NAME	PROJECT NUMBER	LAB NAME AND CONTACT	FAX AND MAIL REPORTS/EDD TO RECIPIENT 1 (Name and Company)	RECIPIENT 1 (Address, Tel No , and Fax No)
N.A.S. Cecil Field 103rd Street	154282	Accura Analytical Laboratory, Inc.	Jennifer Zimmerman / J.A Jones Env. Services	6219 Authority Ave. Jacksonville, FL 32222 (904) 7774812,FAX: (904) 7774262
PROJECT PHASE/SITE/TASK	**CTO OR DO NUMBER**	**LAB PO NUMBER**	**FAX AND MAIL REPORTS/EDD TO RECIPIENT 2 (Name and Company)**	**RECIPIENT 2 (Address, Tel No , and Fax No)**
103rd Street ANNUAL GW Sampling Event	0029	1760	Jeff Wilmoth / CH2M Hill Constuctors, Inc.	115 Perimeter Center Place, N.E. Suite 700 Atlanta, GA 30346 (770)604-9182 Ext.561 FAX:604-9282
PROJECT CONTACT	**PROJECT TEL NO AND FAX NO**	**LAB TEL NO AND FAX NO**	**FAX AND MAIL REPORTS/EDD TO RECIPIENT 3 (Name and Company)**	**RECIPIENT 3 (Address, Tel No , and Fax No)**
Bill Canelos	Ph:(904)777-4812 Fax:(904) 777-4262	Ph: 770-449-8800 Fax: 770-449-5477		

ITEM	SAMPLE IDENTIFIER	SAMPLE DESCRIPTION/LOCATION	MATRIX (see codes on back)	DATE COLLECTED	TIME COLLECTED	DATA PKG LEVEL (see codes on back)	TAT (calendar days)	ANALYSES REQUIRED (Include Method Numbers) Volatiles by 8021B	PAHs by 8310	Lead by 239.2	TRPH by FL-PRO							SAMPLE TYPE (see codes on back)	COMMENTS/ SCREENING READINGS	LAB ID
1	029-SMW01-Q2-01-12	CEF-103-SMW-01	W	05/23/01	8:20	III/C	14	3	2	1	2							Grab	Turbid	AC14027
2	029-SMW02-Q2-01-12	CEF-103-SMW-02	W	05/24/01	8:00	III/C	14	3	2	1	2							Grab	Turbid	28
3	029-SMW03-Q2-01-12	CEF-103-SMW-03	W	05/23/01	10:05	III/C	14	3	2	1	2							Grab	Turbid	29
(4)	029-SMW04-Q2-01-12	CEF-103-SMW-04	W	05/23/01	15:10	III/C	14	3	1	1	1							Grab	MW did not recharge - Turbid	30
5	029-SMW05-Q2-01-12	CEF-103-SMW-05	W	05/23/01	11:05	III/C	14	3	2	1	2							Grab	Turbid	31
6	029-SMW06-Q2-01-12	CEF-103-SMW-06	W	05/24/01	10:20	III/C	14	3	2	1	2							Grab	Turbid	32
7	029-SMW07-Q2-01-12	CEF-103-SMW-07	W	05/24/01	9:35	III/C	14	3	2	1	2							Grab	Turbid	33
8	029-SMW08-Q2-01-12	CEF-103-SMW-08	W	05/24/01	9:05	III/C	14	3	2	1	2							Grab	Turbid	34
9	029-SMW09-Q2-01-12	CEF-103-SMW-09	W	05/24/01	11:20	III/C	14	3	2	1	2							Grab	Turbid	35
10	029-SMW10-Q2-01-12	CEF-103-SMW-10	W	05/24/01	10:40	III/C	14	3	2	1	2							Grab	Turbid	36
11	029-SMW11-Q2-01-12	CEF-103-SMW-11	W	05/23/01	15:50	III/C	14	3	2	1	2							Grab	Turbid	37
12	029-SMW12-Q2-01-12	CEF-103-SMW-12	W	05/23/01	9:25	III/C	14	3	2	1	2							Grab	Turbid	38
(13)	029-DMW01-Q2-01-12	CEF-103-DMW-01	W	05/23/01	13:30	III/C	14	6	6	2	6							Grab	MS/MSD - Turbid	39
14	029-DUP-Q2-01-12	Duplicate	W	05/24/01	NA	III/C	14	3	2	1	2							Grab	Turbid	40
15	029-EQB-Q2-01-12	Equipment Blank	W	05/24/01	10:50	III/C	14	3	2	1	2							Grab		41
16	029-TB-Q2-01-12	Trip Blank	W	NA	NA	III/C	14	2										Grab	Prepared By Lab	AC14012
17	Temp Blank	Temp Blank	W	NA	NA	III/C	14					1						Grab	Prepared By Lab	

SAMPLER(S) AND COMPANY (please print)	COURIER AND SHIPPING NUMBER	SAMPLES TEMPERATURE AND CONDITION UPON RECEIPT
Randy Dumaop / Scott Sloan / Roger Deisler / Willie Bonner J.A. Jones Environmental Services	Federal Express TRK # 790059342276, 791567942708, 791567942833, 790059342688, 790059342839, 791567943196, 791567943347.	

RELINQUISHED BY	DATE	TIME	RECEIVED BY	DATE	TIME
Printed Name and Signature			Printed Name and Signature		
R.Dumaop	5/24/01	17:30	Federal Express	5/24/01	17:30
Printed Name and Signature			Printed Name and Signature		
FED EX	5-24-01	0935	ARNOLD BLIGHT	5-25-01	0935

VOA GC/MS DATA CHECKLIST
SW-846-8260B

PROJECT #: 97988	METHOD: 8260B
MATRIX: Water	6-8-01

INITIAL ANALYST ASSESSMENT

Are all standards within expiration dates for both stock and serial standards?	(Y)	N	NA
Are Tuning results compliant with method?	(Y)	N	NA
Are all CCC drift results, or target analyte drift results acceptable for CCV?	(Y)	N	NA
Are all SPCC Response Factors acceptable for CCV?	(Y)	N	NA
Are all CCV Internal Standard areas within -50% to +100% of initial calibration midlevel standard?	(Y)	N	NA
Are all CCV Internal Standard retention times within 30 seconds of initial cal. midlevel standard?	(Y)	N	NA
Are all sample Internal Standard areas w/in -50% to +100% of that in the CCV?	(Y)	N	NA
Are all sample Internal Standard retention times w/in 30 seconds of that in the CCV?	(Y)	N	NA
Is/Are blank result(s) less than 1/2 RDL for all analytes of interest?	(Y)	N	NA
Are all spike recoveries acceptable for the Blank Spike?	(Y)	N	NA
Are all surrogate standard recoveries acceptable (Blank, Blank Spike, samples)?	(Y)	N	NA
If Internal Standard, surrogate, or LCS are unacceptable was re-injection performed to confirm?	Y	N	(NA)
Were sample analyses performed within holding times?	(Y)	N	NA
Were analyses performed such that carryover was not a problem?	(Y)	N	NA
Are quantitations based on the latest acceptable initial calibration?	(Y)	N	NA
Are all requested analytes below the upper calibration limit?	(Y)	N	NA
If interfering ions are present, was identification made by looking at characteristic ions only?	Y	N	(NA)
Were TICS required? If so, were steps in section 7.6.2 followed in 8260B?	Y	N	(NA)
Are all mistakes single lined out, initialled, & dated?	(Y)	N	NA
Are pHs recorded for all water samples?	(Y)	N	NA
Are all analytes not to be reported lined off, initialed, and dated on the raw data?	(Y)	N	NA
Was analysis completed as instructed on the Log-in Record?	(Y)	N	NA
Has all data been entered into LIMS?	(Y)	N	NA

Analyst: DAT

Date: 6-1-01 Time: 18:10

PEER REVIEW

Are Tuning results compliant with method?	Y	N	NA
Are all CCC drift results and SPCC Response Factors acceptable for CCV?	Y	N	NA
Are all CCV Internal Standard areas and retention times within method limits?	Y	N	NA
Are all sample Internal Standard areas and retention times within method limits?	Y	N	NA
Are all blank and QC results acceptable?	Y	N	NA
Are all surrogate standard recoveries acceptable?	Y	N	NA
Are quantitations based on the latest acceptable initial calibration?	Y	N	NA
Are all calculations correct and reported in the proper units?	Y	N	NA
Were sample analyses performed within holding times?	Y	N	NA
Is the run log completely filled out (including review signature/date)?	Y	N	NA
Are pHs recorded for all water samples?	Y	N	NA
Are all applicable runlog sheets signed, dated, and included?	Y	N	NA
Was analysis completed as instructed on the Log-in Record?	Y	N	NA
Have all LIMS entries been checked for accuracy?	Y	N	NA

Reviewer: VRR

Date: 6-4-01 Time: 14:30

Accura Analytical Laboratory, Inc.

6017 Financial Drive, Norcross, GA 30071

GC/MS VOLATILE INSTRUMENT C RUNLOG

Date: 5-31-01
Calib. File: 05250125.m
ACQ. Method: 05310125.m
BFB Std ID #: VC0118

Internal Standard ID #: VC1044
Surrogate Standard ID #: VC1045
Calib.Standard ID #: VC1053, VC1037
LCS/MS Standard ID #: VC1053

GC Conditions
BFB: 80°C-10°C/10min-155°C
Samples: 40°C(4m)-8°C/min-180°C(2m)

	CCV IS RT	CV IS Areas
#1	6.96	401527
#2	12.32	511618
#3	15.56	184310

Surrogate Limits

	DCE	TOL-d8	BFB
QC	83-124	84-115	81-118
Sample	81-132	80-119	80-120

MS Conditions
EMV: 1800
Tune File: BFB01.C
Scan Delay: 0.5 min

File Name	Project ID	Lab Sam. ID	Client Sam. ID	Matrix	Volume	DF	ALS #	pH	-Cl	Inj.Time	Comments
C 20213	QC	BFB 50ng	—	—	2ml	—	—	—	—	0757	
C 20214		ccv 10ppb VRR	—	25	25ml	1	1	—	—	819	
C 20215		BVIWC53101 C1	—			1	2	—	—	900	
C 20216		BVIWLCSC53101	—			1	3	—	—	1015	
C 20217	27988	AC14027	—			1	4	1	X	1056	
C 20218		AC14028	—			1	5	1	X	1122	
C 20219		AC14029	—			1	6	1	X	1147	
C 20220		AC14030	—			1	7	1	X	1214	
C 20221		AC14031	—			1	8	1	X	1239	
C 20222		AC14032	—			1	9	1	X	1305	
C 20223		AC14033	—			1	10	1	X	1331	
C 20224		AC14034	—			1	11	1	X	1356	
C 20225		AC14035	—			1	12	1	X	1422	
C 20226		AC14036	—			1	13	1	X	1448	
C 20227		AC14037	—			1	14	1	X	1513	NDIL
C 20228		AC14038	—			1	15	1	X	1539	
C 20229		AC14039	—			1	16	1	X	1605	
C 20230		AC14040	—			1	1	1	X	1630	
C 20231		AC14042	—			1	2	1	X	1656	ss failed
C 20232		AC14041	—		↓	1	3	1	X	1722	
C 20233		AC14037	—		5ml	5	4	1	X	1747	
C 20234		AC14034	—		25ml	1	5	1	X	1813	
C 20235		AC14036	—			1	6	1	X	1839	ss failed
C 20236		AC14042	—			1	7	1	X	1905	
C 20237		AC14039MS	—			1	8	1	X	1930	
C 20238	↓	AC14039MSD	—	↓	↓	1	9	1	X	1955	
C											

Note: NDIL=Need Dilution NRI=Needs Reinjection MI=Matrix Interferences NC=Needs Concentrated

VRR 06-01-01

Analyst / Date: VRR 06-01-01

Reviewer / Date: _____

Logbook ID: VOC-118

ACCURA ANALYTICAL LABORATORY, INC.

Environmental Analytical Services

VOA SAMPLE BATCHBOOK

Inst. ID: VOA-C **Batch ID:** C05310125. **Matrix:** Water -25ml

LCS/BS ID: C20216 **MS ID:** AC14039 **MSD ID:** AC14039

	Lab. Proj. #	LIMS ID #	Analysis Date	Comment
1	27988	AC14027	5·31·01	
2		AC14028		
3		AC14029		
4		AC14030		
5		AC14031		
6		AC14032		
7		AC14033		
8		AC14034		
9		AC14035		
10		AC14036		
11		AC14037		
12		AC14038		
13		AC14039		
14		AC14040		
15		AC14041		
16		AC14042		
17				
18				
19				
20				

Review: _____ **Date:** _____

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\053101\C20217.D Vial: 4
Acq On : 05/31/01 10:56 Operator: JV/VRR DAT
Sample : AC14027 25ml DF=1 Inst : HP013
Misc : 27988/C05310125 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 1 8:18 2001 Quant Results File: C05310125.RES

Quant Method : c:\hpchem\1\data\053101\05310125.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Wed May 30 13:53:00 2001
Response via : Initial Calibration
DataAcq Meth : 05310125

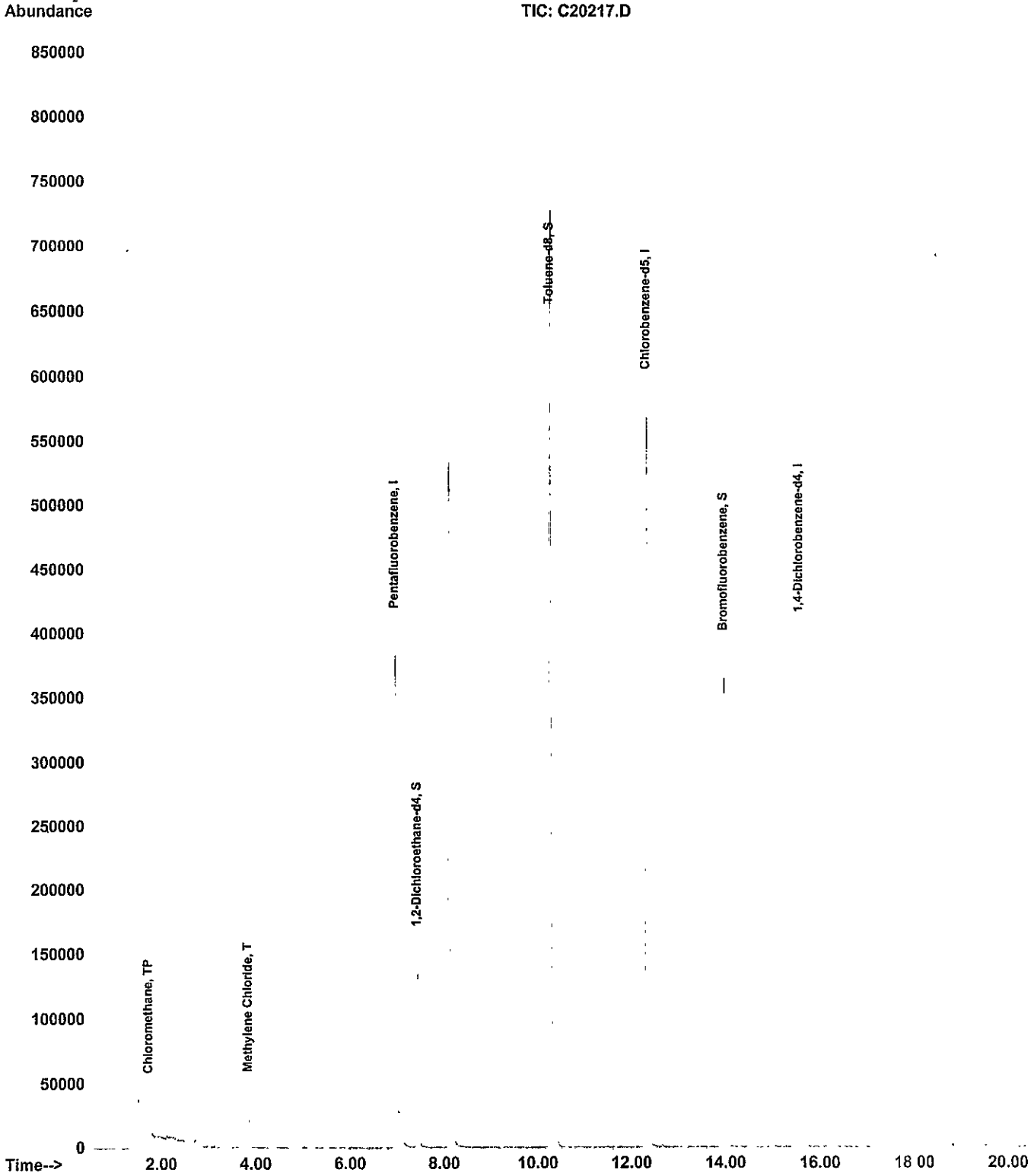
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	6.97	168	376141	10.00	ug\L	0.00
45) Chlorobenzene-d5	12.32	117	426373	10.00	ug\L	0.00
61) 1,4-Dichlorobenzene-d4	15.57	152	134807	10.00	ug\L	0.00
88) 1.4-Difluorobenzene	0.00	116	0m	10.00	ug\L	-8.12
System Monitoring Compounds						
32) 1,2-Dichloroethane-d4	7.45	65	155301	10.40	ug\L	0.01
Spiked Amount 10.000	Range 80 - 120		Recovery = 104.00%			
46) Toluene-d8	10.27	98	712229	11.38	ug\L	0.00
Spiked Amount 10.000	Range 87 - 104		Recovery = 113.80%#			
66) Bromofluorobenzene	13.97	95	180018	11.22	ug\L	0.00
Spiked Amount 10.000	Range 84 - 110		Recovery = 112.20%#			
Target Compounds						Qvalue
3) Chloromethane	1.75	50	12247	0.63	ug\L	93 0.63J
16) Methylene Chloride	3.86	86	8269	0.87	ug\L	83 0.87J

VRR 6-1-01

(#) = qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\053101\C20217.D Vial: 4
Acq On : 05/31/01 10:56 Operator: [illegible]/VRR/DAT
Sample : AC14027 25ml DF=1 Inst : [illegible]013
Misc : 27988/C05310125 Multiplr: [illegible]00
MS Integration Params: rteint.p
Quant Time: Jun 1 8:18 2001 Quant Results File: [illegible]310125.RES

Method : C:\HPCHEM\1\DATA\053101\05310125.M (RTE Integrat[illegible]
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Wed May 30 13:53:00 2001
Response via : Initial Calibration



LSC Area Percent Report

Data File : C:\HPCHEM\1\DATA\053101\C20217.D Vial: 4
Acq On : 05/31/01 10:56 Operator: JP/\ R/DAT
Sample : AC14027 25ml DF=1 Inst : HP01
Misc : 27988/C05310125 Multiplr: 1.00
MS Integration Params: LSCINT.P

Method : C:\HPCHEM\1\DATA\053101\05310125.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.02 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Signal : TIC

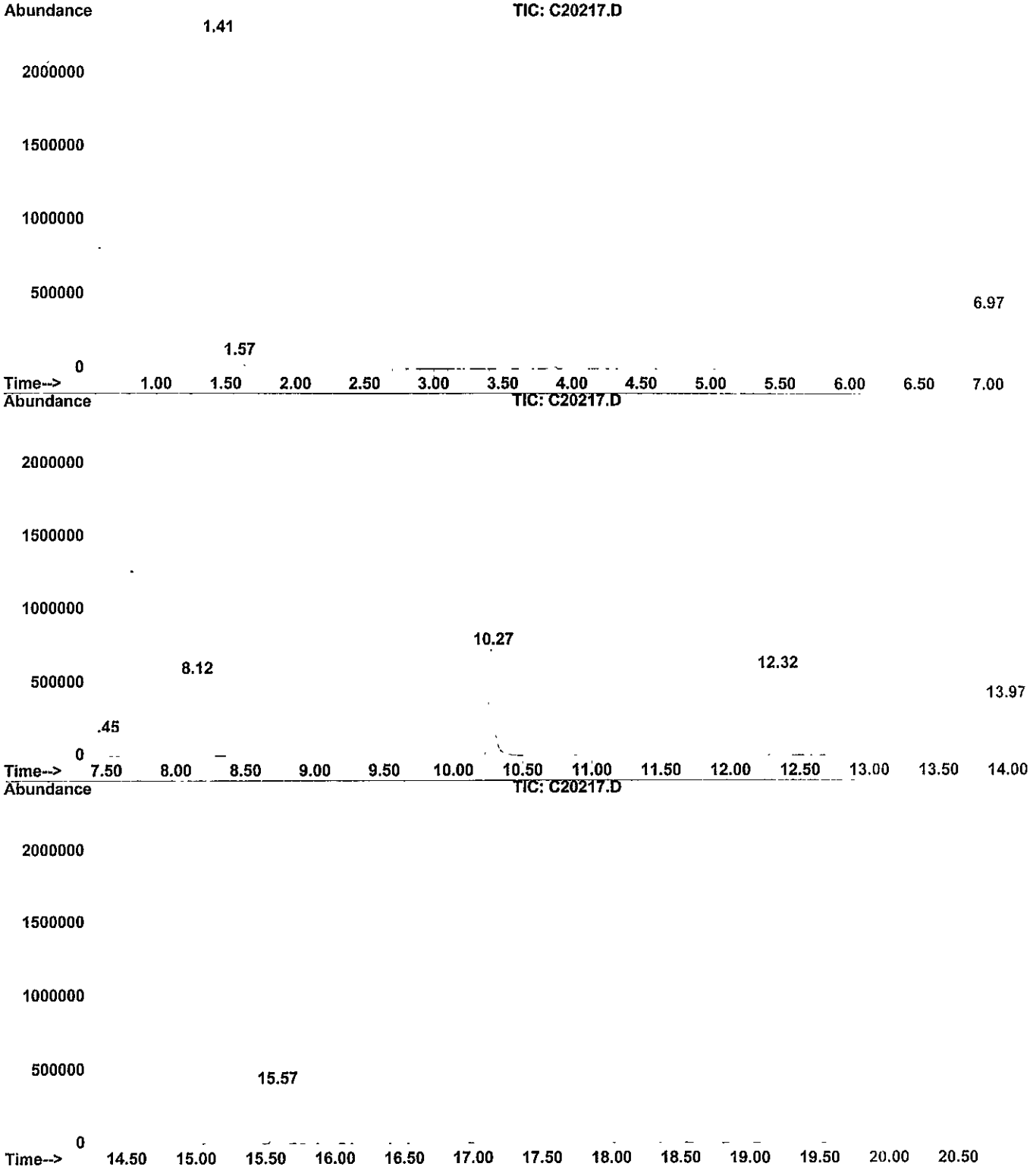
peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	peak area	peak % max.	% of total
1	1.409	127	147	163	rBV	2369544	6937768	100.00%	45.196%
2	1.566	165	173	185	rVB	39563	192515	2.77%	1.254%
3	6.972	1059	1072	1082	rBV	383190	1170238	16.87%	7.623%
4	7.447	1140	1151	1166	rBV2	134228	382477	5.51%	2.492%
5	8.121	1251	1263	1288	rBV	534137	1509129	21.75%	9.831%
6	10.274	1610	1621	1645	rBV	729509	1979586	28.53%	12.896%
7	12.325	1952	1962	1987	rBV	570005	1429401	20.60%	9.312%
8	13.973	2226	2236	2255	rBV	365309	865681	12.48%	5.639%
9	15.573	2492	2502	2514	rBV	379888	883717	12.74%	5.757%

Sum of corrected areas: 15350512

C20217.D 05310125.M Fri Jun 01 08:19:34 2001

LSC Report - Integrated Chromatogram

File : C:\HPCHEM\1\DATA\053101\C20217.D
Operator : JP/VRR/DAT
Acquired : 31 May 2001 10:56 using AcqMethod 05310125
Instrument : HP013
Sample Name: AC14027 25ml DF=1
Misc Info : 27988/C05310125
Vial Number: 4
Quant File :05310125.RES (RTE Integrator)



C20217.D 05310125.M Fri Jun 01 08:19:35 2001

Tentatively Identified Compound (LSC) summary

Operator ID: JP/VRR/DAT Date Acquired: 31 May 2001 10:56
Data File: C:\HPCHEM\1\DATA\053101\C20217.D
Name: AC14027 25ml DF=1
Misc: 27988/C05310125
Method: c:\hpchem\1\data\053101\05310125.M (RTE Integrator)
Title: 8260 CALIBRATION FOR 25ML WATER
Library Searched: C:\DATABASE\NIST98.L

TIC Top Hit name	RT	EstConc	Units	Area	IntStd	ISRT	ISArea	ISConc

C20217.D 05310125.M Fri Jun 01 08:19:35 2001

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\053101\C20218.D Vial: [illegible]
Acq On : 05/31/01 11:22 Operator: [illegible]VRR DAT
Sample : AC14028 25ml DF=1 Inst : [illegible]013
Misc : 27988/C05310125 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 1 8:20 2001 Quant Results File: 05310125.RES

Quant Method : c:\hpchem\1\data\053101\05310125.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Wed May 30 13:53:00 2001
Response via : Initial Calibration
DataAcq Meth : 05310125

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	6.98	168	357619	10.00	ug\L	0.01
45) Chlorobenzene-d5	12.32	117	430048	10.00	ug\L	0.00
61) 1,4-Dichlorobenzene-d4	15.57	152	138238	10.00	ug\L	0.00
88) 1.4-Difluorobenzene	0.00	116	0m	10.00	ug\L	-8.12
System Monitoring Compounds						
32) 1,2-Dichloroethane-d4	7.45	65	162268	11.43	ug\L	0.02
Spiked Amount 10.000	Range 80 - 120		Recovery = 114.30%			
46) Toluene-d8	10.27	98	718678	11.38	ug\L	0.00
Spiked Amount 10.000	Range 87 - 104		Recovery = 113.80%#			
66) Bromofluorobenzene	13.97	95	182821	11.11	ug\L	0.00
Spiked Amount 10.000	Range 84 - 110		Recovery = 111.0%#			
Target Compounds						Qvalue
3) Chloromethane	1.74	50	11274	0.61	ug\L	97 0.61J
16) Methylene Chloride	3.86	86	8683	0.96	ug\L	93 0.96J

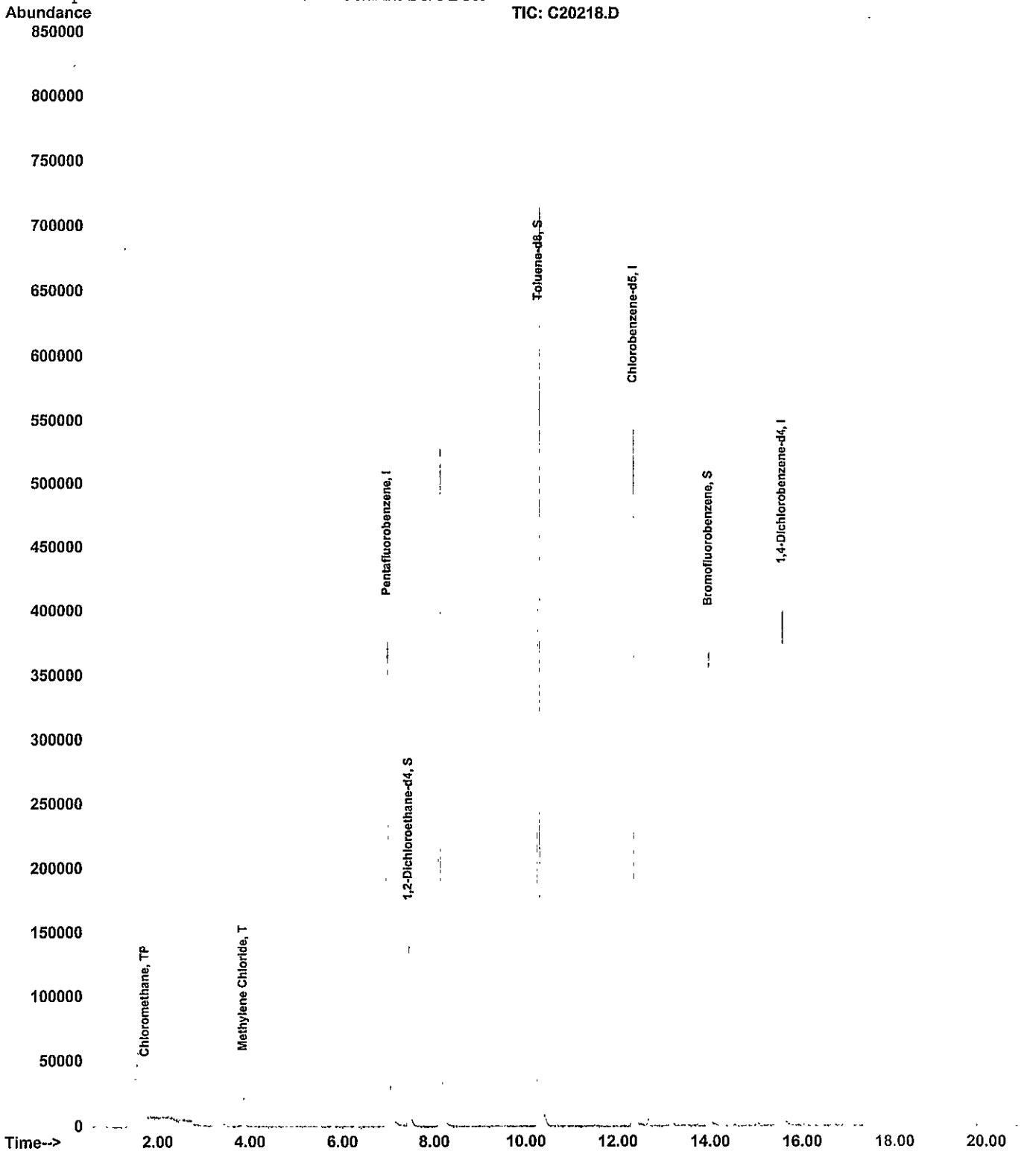
VRR 6.1.01

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\053101\C20218.D Vial: 5
Acq On : 05/31/01 11:22 Operator: JP/VRR/DAT
Sample : AC14028 25ml DF=1 Inst : HP013
Misc : 27988/C05310125 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 1 8:20 2001 Quant Results File: C05310125.RES

Method : C:\HPCHEM\1\DATA\053101\05310125.M (RTE Integrate
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Wed May 30 13:53:00 2001
Response via : Initial Calibration



LSC Area Percent Report

Data File : C:\HPCHEM\1\DATA\053101\C20218.D Vial: 5
Acq On : 05/31/01 11:22 Operator: JP/VRR/DAT
Sample : AC14028 25ml DF=1 Inst : HP01
Misc : 27988/C05310125 Multiplr: 1.00
MS Integration Params: LSCINT.P

Method : C:\HPCHEM\1\DATA\053101\05310125.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.02 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Signal : TIC

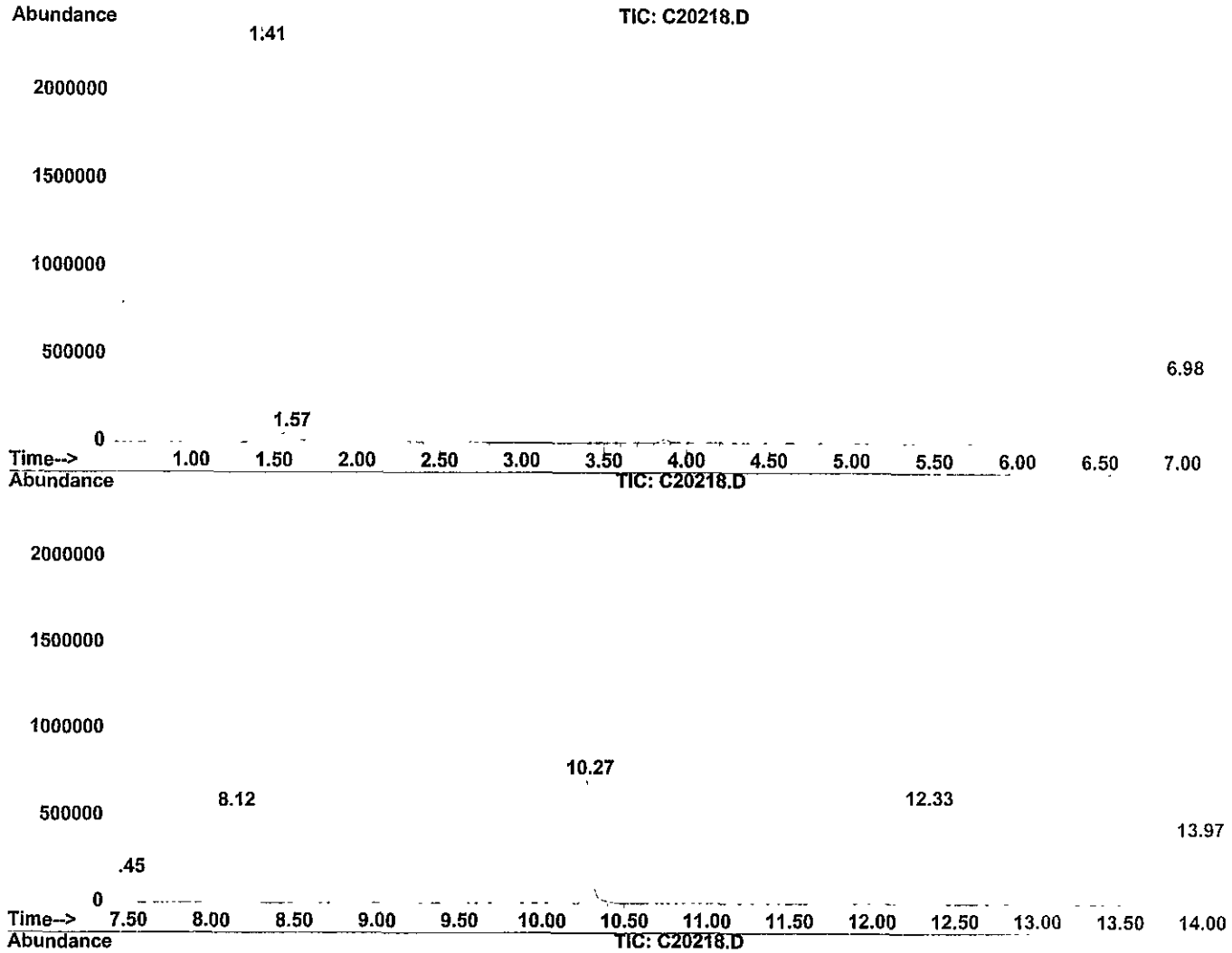
peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	peak area	peak % max.	% of total
1	1.408	132	147	162	rBV	2374435	7528003	100.00%	47.002%
2	1.570	168	174	194	rVB	45835	203665	2.71%	1.272%
3	6.977	1060	1073	1084	rBV	376710	1147800	15.25%	7.166%
4	7.452	1140	1152	1162	rBV2	140008	407969	5.42%	2.547%
5	8.120	1252	1263	1290	rBV	528223	1505387	20.00%	9.399%
6	10.273	1610	1621	1657	rBV	715394	1979964	26.30%	12.362%
7	12.330	1953	1963	1987	rBV	544606	1444611	19.19%	9.020%
8	13.972	2226	2236	2249	rBV	368824	881148	11.70%	5.502%
9	15.565	2490	2501	2512	rBV	401949	917867	12.19%	5.731%

Sum of corrected areas: 16016414

C20218.D 05310125.M Fri Jun 01 08:21:33 2001

LSC Report - Integrated Chromatogram

File : C:\HPCHEM\1\DATA\053101\C20218.D
Operator : JP/VRR/DAT
Acquired : 31 May 2001 11:22 using AcqMethod 05310125
Instrument : HP013
Sample Name: AC14028 25ml DF=1
Misc Info : 27988/C05310125
Vial Number: 5
Quant File :05310125.RES (RTE Integrator)



C20218.D 05310125.M Fri Jun 01 08:21:34 2001

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\053101\C20218.D
Acq On : 05/31/01 11:22
Sample : AC14028 25ml DF=1
Misc : 27988/C05310125
MS Integration Params: LSCINT.P

Vial: 5
Operator: JP/VRR/DAT
Inst : HP013
Multiplr: 1.00

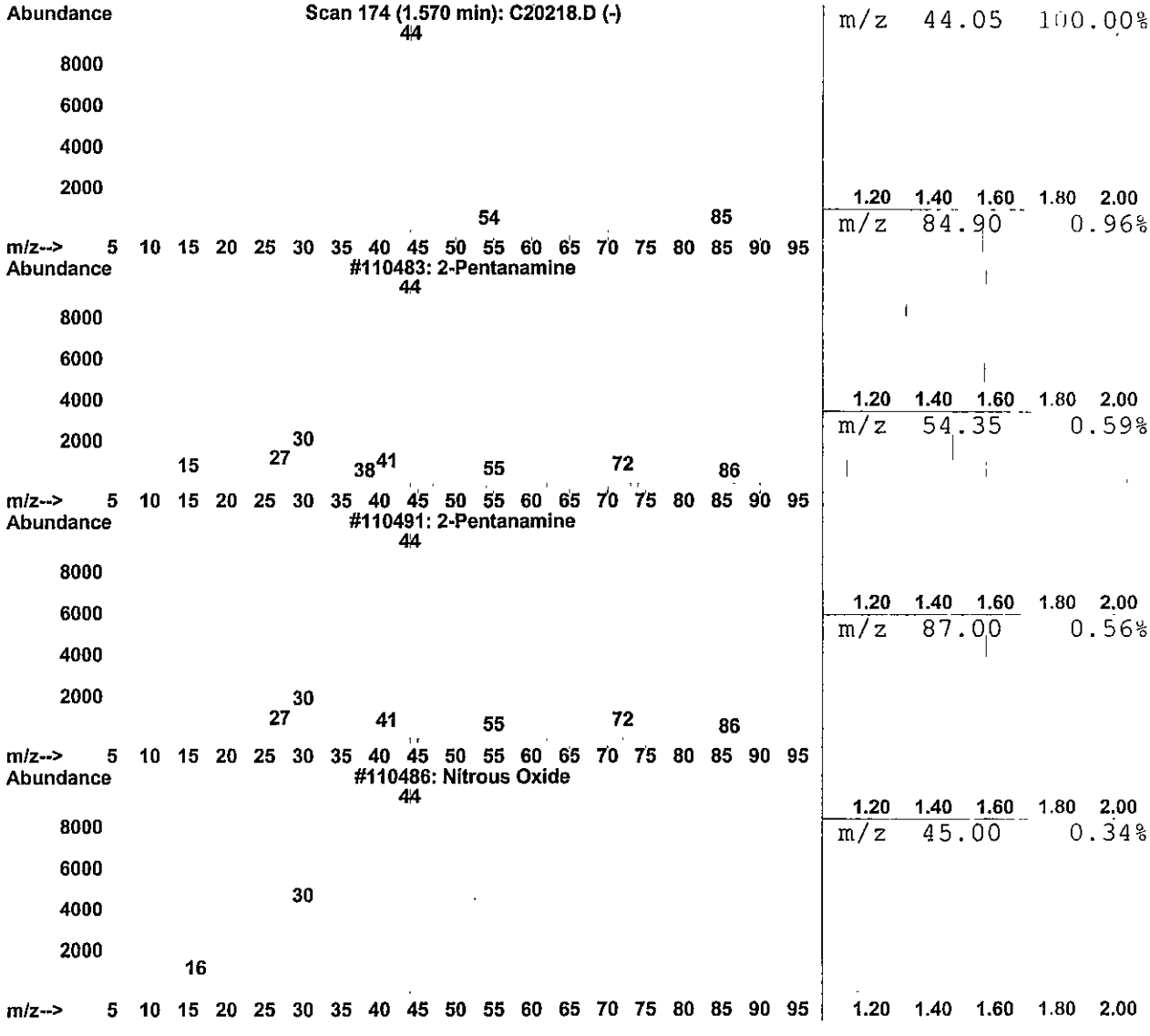
Quant Method : c:\hpchem\1\data\053101\05310125.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Library : C:\DATABASE\NIST98.L

****

Peak Number 1 2-Pentanamine Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
1.57	2036650.00 ug\L	203665	1.4-Difluorobenzene	0.00

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Pentanamine	87	C5H13N	000625-30-9	3
2	2-Pentanamine	87	C5H13N	000625-30-9	3
3	Nitrous Oxide	44	N2O	010024-97-2	2
4	Carbon dioxide	44	CO2	000124-38-9	2



Tentatively Identified Compound (LSC) summary

Operator ID: JP/VRR/DAT Date Acquired: 31 May 2001 11:22
Data File: C:\HPCHEM\1\DATA\053101\C20218.D
Name: AC14028 25ml DF=1
Misc: 27988/C05310125
Method: c:\hpchem\1\data\053101\05310125.M (RTE Integrator)
Title: 8260 CALIBRATION FOR 25ML WATER
Library Searched: C:\DATABASE\NIST98.L

TIC Top Hit name	RT	EstConc	Units	Area	IntStd	ISRT	ISArea	ISConc
2-Pentanamine	1.57	2036650.0	ug\L	203665	ISTD01	0.00	1	10.0

C20218.D 05310125.M Fri Jun 01 08:21:35 2001

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\053101\C20219.D Vial: 6
Acq On : 05/31/01 11:47 Operator: JP/VRR/DAT
Sample : AC14029 25ml DF=1 Inst : HP013
Misc : 27988/C05310125 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 1 8:22 2001 Quant Results File: C05310125.RES

Quant Method : c:\hpchem\1\data\053101\05310125.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Wed May 30 13:53:00 2001
Response via : Initial Calibration
DataAcq Meth : 05310125

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	6.97	168	311450	10.00	ug\L	0.00
45) Chlorobenzene-d5	12.33	117	380153	10.00	ug\L	0.01
61) 1,4-Dichlorobenzene-d4	15.57	152	121502	10.00	ug\L	0.00
88) 1.4-Difluorobenzene	0.00	116	0m	10.00	ug\L	-8.12
System Monitoring Compounds						
32) 1,2-Dichloroethane-d4	7.45	65	160602	12.99	ug\L	0.01
Spiked Amount 10.000	Range 80 - 120		Recovery = 129.90%#			
46) Toluene-d8	10.27	98	658197	11.79	ug\L	0.00
Spiked Amount 10.000	Range 87 - 104		Recovery = 117.90%#			
66) Bromofluorobenzene	13.97	95	166554	11.51	ug\L	0.00
Spiked Amount 10.000	Range 84 - 110		Recovery = 115.10%#			
Target Compounds						Qvalue
16) Methylene Chloride	3.87	86	9962	1.26	ug\L	95 1.3J

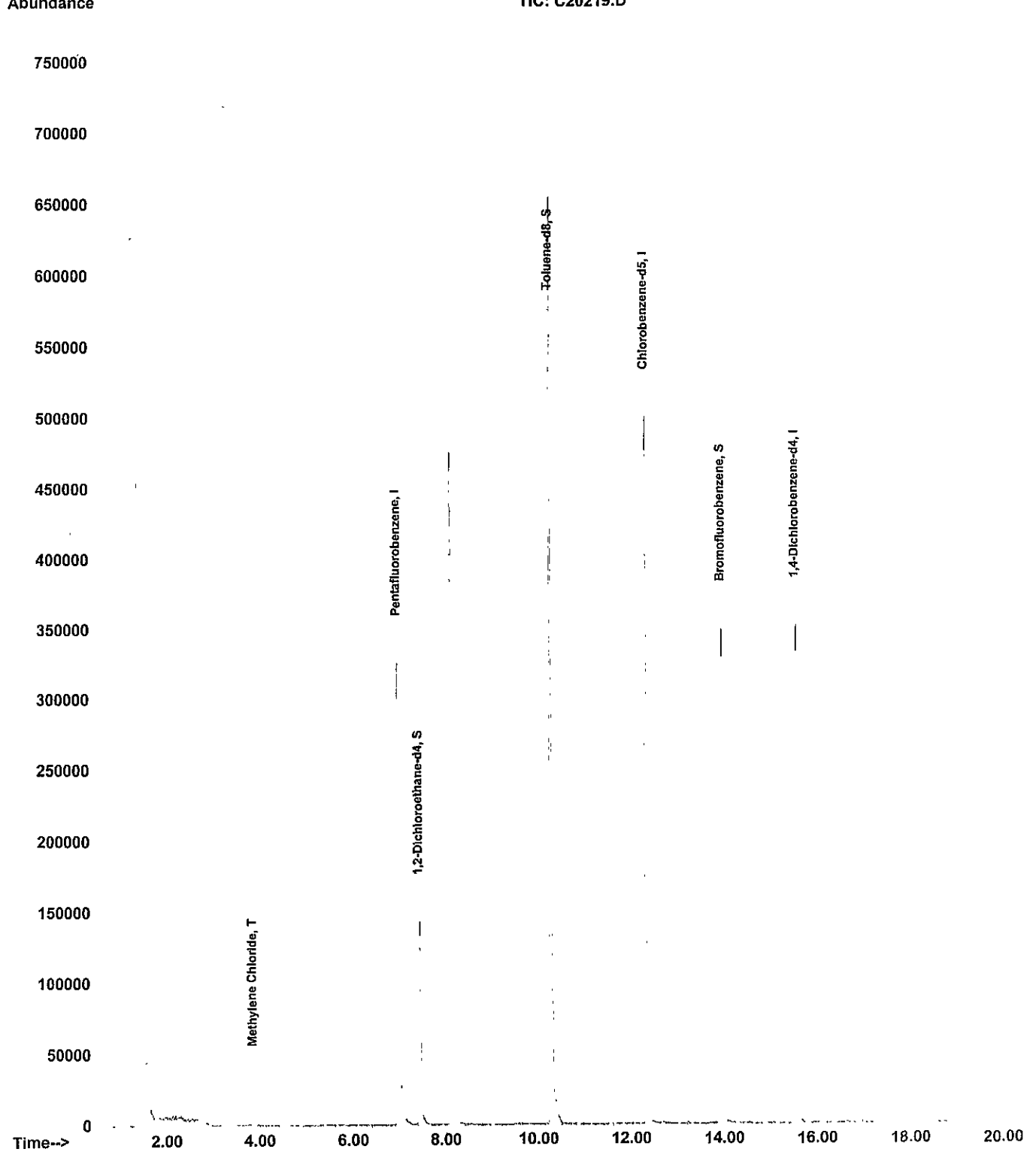
VRR
6.1.01

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\053101\C20219.D Vial: [illegible]
Acq On : 05/31/01 11:47 Operator: J [illegible]/VRP/DAT
Sample : AC14029 25ml DF=1 Inst : H [illegible]013
Misc : 27988/C05310125 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 1 8:22 2001 Quant Results File: [illegible]310125.RES

Method : C:\HPCHEM\1\DATA\053101\05310125.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Wed May 30 13:53:00 2001
Response via : Initial Calibration



LSC Area Percent Report

Data File : C:\HPCHEM\1\DATA\053101\C20219.D Vial: 6
Acq On : 05/31/01 11:47 Operator: JP/VER/DAT
Sample : AC14029 25ml DF=1 Inst : HP01
Misc : 27988/C05310125 Multiplr: 1.00
MS Integration Params: LSCINT.P

Method : C:\HPCHEM\1\DATA\053101\05310125.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.02 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Signal : TIC

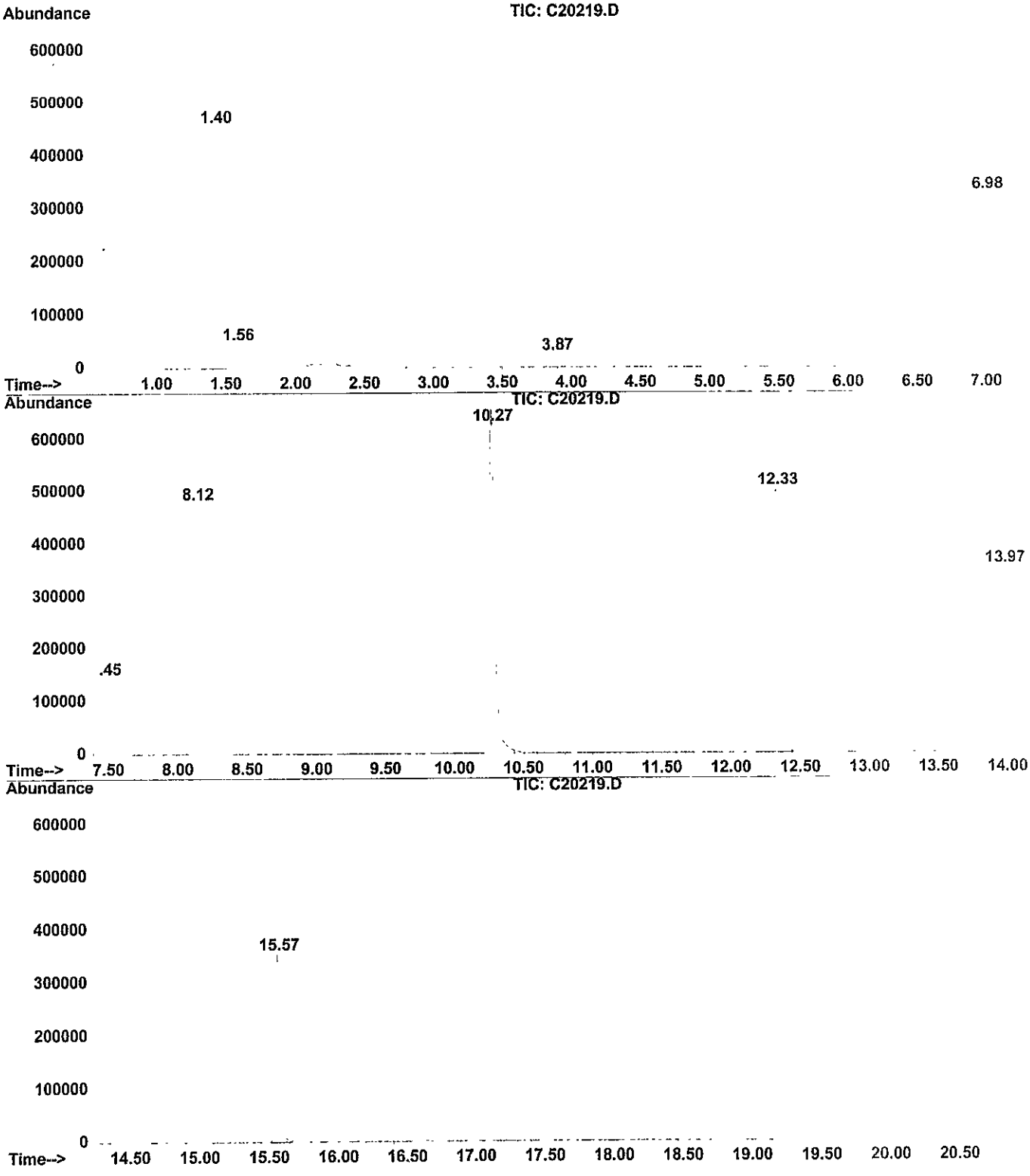
peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	peak area	peak % max.	% of total
1	1.402	133	146	162	rBV	454899	1423086	78.79%	15.825%
2	1.558	162	172	173	rBV3	36250	69115	3.83%	0.769%
3	3.868	545	556	567	rVB3	22733	66629	3.69%	0.741%
4	6.977	1060	1073	1084	rBV	326758	1014625	56.18%	11.283%
5	7.446	1140	1151	1163	rBV2	143291	401308	22.22%	4.463%
6	8.120	1252	1263	1286	rBV	475667	1325732	73.40%	14.742%
7	10.273	1608	1621	1648	rBV	655821	1806068	100.00%	20.084%
8	12.330	1953	1963	1982	rBV	500964	1275636	70.63%	14.185%
9	13.972	2227	2236	2252	rBV	350127	801959	44.40%	8.918%
10	15.565	2492	2501	2518	rBV2	353213	808577	44.77%	8.991%

Sum of corrected areas: 8992735

C20219.D 05310125.M Fri Jun 01 08:23:28 2001

LSC Report - Integrated Chromatogram

File : C:\HPCHEM\1\DATA\053101\C20219.D
Operator : JP/VRR/DAT
Acquired : 31 May 2001 11:47 using AcqMethod 05310125
Instrument : HP013
Sample Name: AC14029 25ml DF=1
Misc Info : 27988/C05310125
Vial Number: 6
Quant File :05310125.RES (RTE Integrator)



C20219.D 05310125.M Fri Jun 01 08:23:29 2001

Data File : C:\HPCHEM\1\DATA\053101\C20219.D Vial: 6
Acq On : 05/31/01 11:47 Operator: JP/VRR/DAT
Sample : AC14029 25ml DF=1 Inst : HP013
Misc : 27988/C05310125 Multiplr: 1.00
MS Integration Params: LSCINT.P

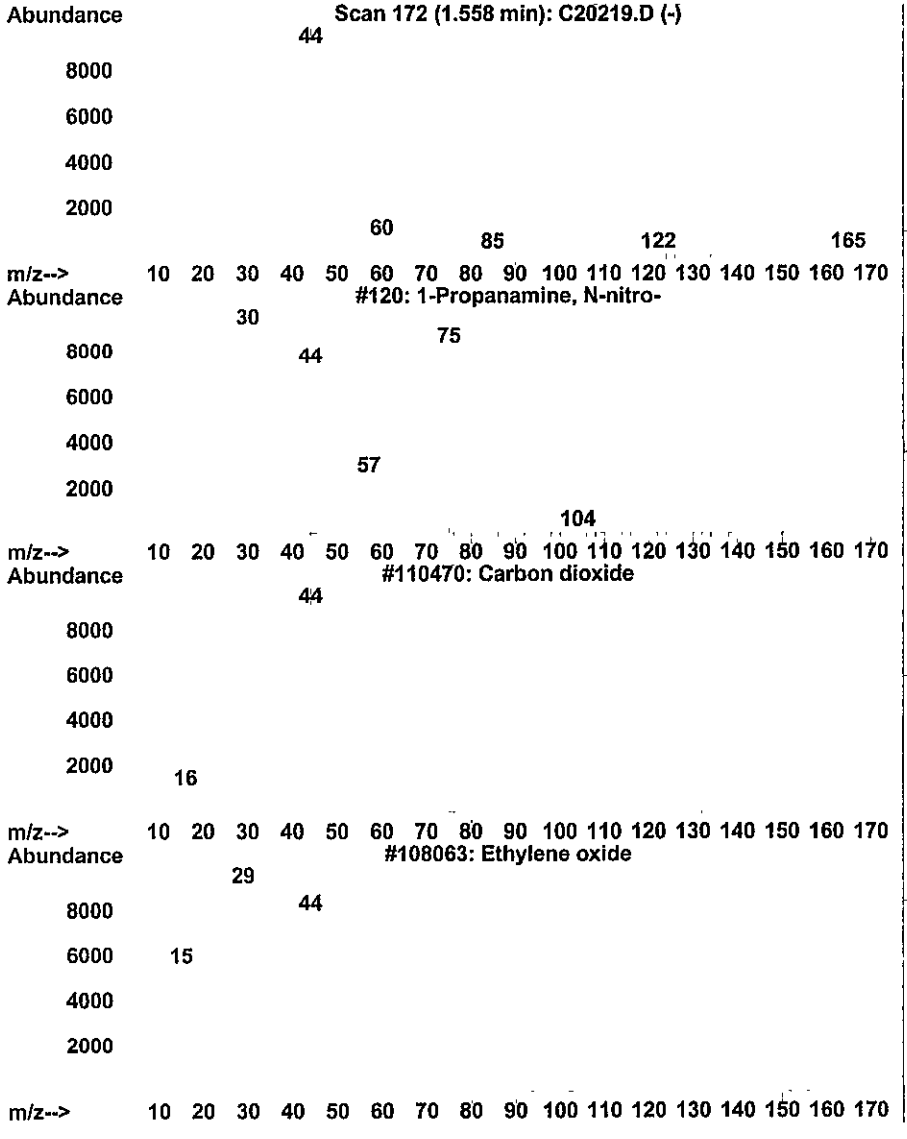
Quant Method : c:\hpchem\1\data\053101\05310125.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Library : C:\DATABASE\NIST98.L

****

Peak Number 1 1-Propanamine, N-nitro- Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
1.56	691150.00 ug\L	69115	1.4-Difluorobenzene	1.00

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Propanamine, N-nitro-	104	C3H8N2O2	000627-07-6	3
2	Carbon dioxide	44	CO2	000124-38-9	3
3	Ethylene oxide	44	C2H4O	000075-21-8	3
4	Carbon dioxide	44	CO2	000124-38-9	3



m/z 44.05 100.00%
m/z 60.00 6.44%
m/z 44.95 0.63%
m/z 45.95 0.59%
m/z 62.00 0.59%

Tentatively Identified Compound (LSC) summary

Operator ID: JP/VRR/DAT Date Acquired: 31 May 2001 11:47
Data File: C:\HPCHEM\1\DATA\053101\C20219.D
Name: AC14029 25ml DF=1
Misc: 27988/C05310125
Method: c:\hpchem\1\data\053101\05310125.M (RTE Integrator)
Title: 8260 CALIBRATION FOR 25ML WATER
Library Searched: C:\DATABASE\NIST98.L

TIC Top Hit name	RT	EstConc	Units	Area	IntStd	ISRT	ISArea	ISConc
1-Propanamine, N-nit	1.56	691150.0	ug\L	69115	ISTD01	0.00	1	10.0

C20219.D 05310125.M Fri Jun 01 08:23:30 2001

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\053101\C20220.D Vial: 7
Acq On : 05/31/01 12:14 Operator: JP/VRR/DAT
Sample : AC14030 25ml DF=1 Inst : HP013
Misc : 27988/C05310125 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 1 8:25 2001 Quant Results File: 05310125.RES

Quant Method : c:\hpchem\1\data\053101\05310125.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Wed May 30 13:53:00 2001
Response via : Initial Calibration
DataAcq Meth : 05310125

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	6.98	168	324236	10.00	ug\L	0.01
45) Chlorobenzene-d5	12.32	117	421664	10.00	ug\L	0.00
61) 1,4-Dichlorobenzene-d4	15.57	152	150681	10.00	ug\L	0.00
88) 1.4-Difluorobenzene	0.00	116	0m	10.00	ug\L	-8.12
System Monitoring Compounds						
32) 1,2-Dichloroethane-d4	7.45	65	159799	12.41	ug\L	0.01
Spiked Amount 10.000	Range 80 - 120		Recovery = 124.10%#			
46) Toluene-d8	10.27	98	703624	11.37	ug\L	0.00
Spiked Amount 10.000	Range 87 - 104		Recovery = 113.70%#			
66) Bromofluorobenzene	13.97	95	194258	10.83	ug\L	0.00
Spiked Amount 10.000	Range 84 - 110		Recovery = 108.30%			
Target Compounds						Qvalue
11) Acetone	3.30	58	1462	1.58	ug\L #	321.6 NDL
16) Methylene Chloride	3.86	86	9256	1.13	ug\L	951.1J
73) 1,3,5-Trimethylbenzene	14.53	105	42491	0.72	ug\L	980.72 J
76) 1,2,4-Trimethylbenzene	15.06	105	38299	0.69	ug\L	940.69 J

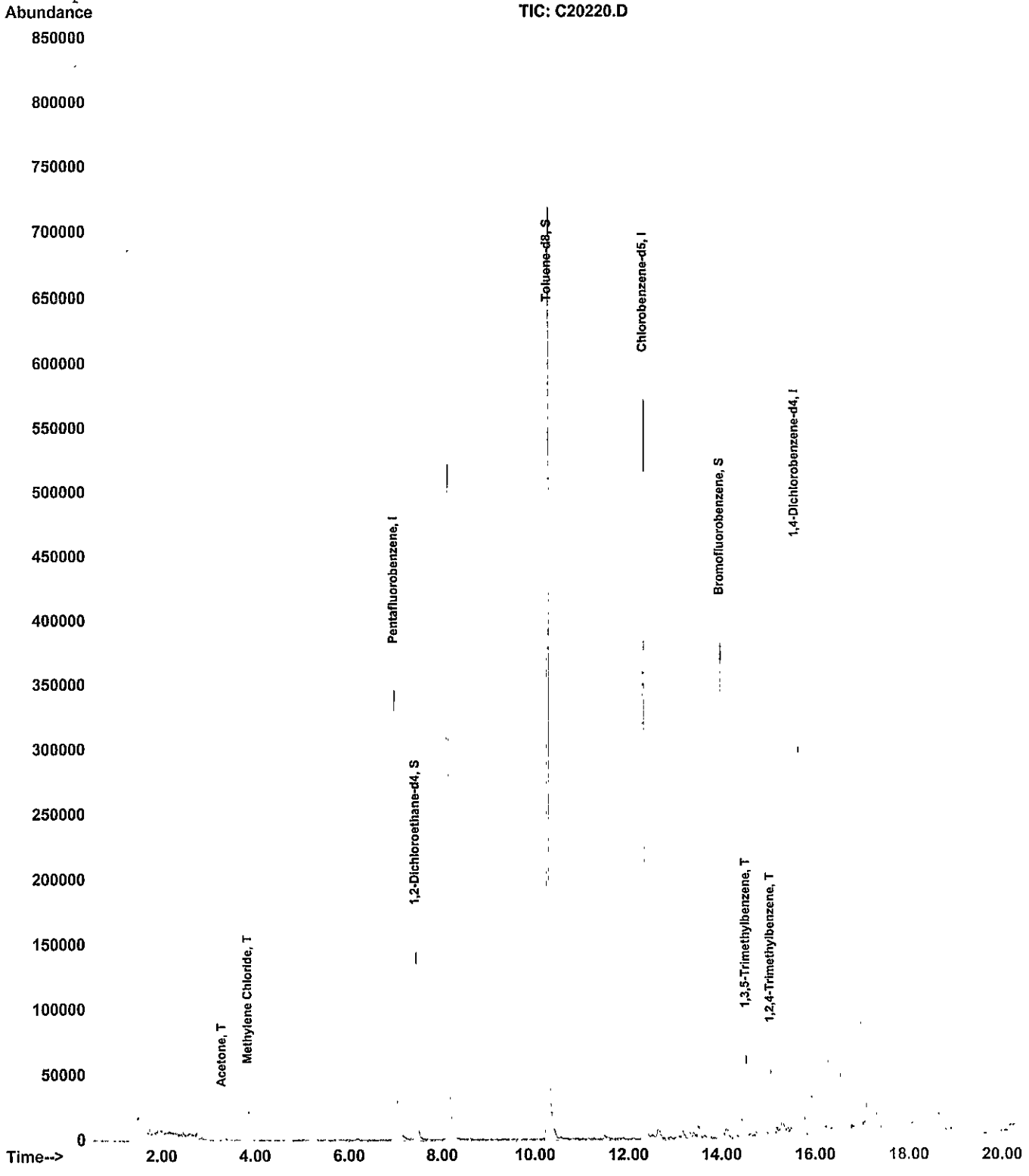
VRR
6-1-01

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\053101\C20220.D Vial: 7
Acq On : 05/31/01 12:14 Operator: JP/VRR/DAT
Sample : AC14030 25ml DF=1 Inst : HP013
Misc : 27988/C05310125 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 1 8:25 2001 Quant Results File: C05310125.RES

Method : C:\HPCHEM\1\DATA\053101\05310125.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Wed May 30 13:53:00 2001
Response via : Initial Calibration



LSC Area Percent Report

Data File : C:\HPCHEM\1\DATA\053101\C20220.D Vial: 7
Acq On : 05/31/01 12:14 Operator: JP/VER/DAT
Sample : AC14030 25ml DF=1 Inst : HP01
Misc : 27988/C05310125 Multiplr: 1.00
MS Integration Params: LSCINT.P

Method : C:\HPCHEM\1\DATA\053101\05310125.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.02 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	peak area	peak % max.	% of total
1	1.409	134	147	161	rBV	945545	2844558	100.00%	18.548%
2	1.565	163	173	193	rVB2	39056	208649	7.34%	1.360%
3	3.863	545	555	565	rBV3	22897	65569	2.31%	0.428%
4	6.978	1060	1073	1083	rBV	346663	1067174	37.52%	6.958%
5	7.447	1140	1151	1163	rBV	144333	398572	14.01%	2.599%
6	8.121	1252	1263	1284	rBV2	522375	1465792	51.53%	9.558%
7	10.274	1609	1621	1647	rBV	719484	1948687	68.51%	12.706%
8	12.325	1951	1962	1985	rBV	572889	1429694	50.26%	9.322%
9	13.967	2226	2235	2251	rBV2	383106	948387	33.34%	6.184%
10	14.285	2279	2288	2295	rBV5	11994	34061	1.20%	0.222%
11	14.532	2322	2329	2338	rVB	62646	137960	4.85%	0.900%
12	14.815	2368	2376	2391	rVB3	44859	127041	4.47%	0.828%
13	15.055	2408	2416	2428	rVB	51157	122978	4.32%	0.802%
14	15.566	2488	2501	2508	rBV	421201	1011397	35.56%	6.595%
15	15.639	2508	2513	2522	rVV	295562	673530	23.68%	4.392%
16	15.777	2530	2536	2544	rVB2	14421	32547	1.14%	0.212%
17	15.897	2547	2556	2557	rBV5	16082	29597	1.04%	0.193%
18	15.927	2557	2561	2568	rVV3	27585	59958	2.11%	0.391%
19	16.018	2568	2576	2585	rVB4	35741	102989	3.62%	0.672%
20	16.174	2595	2602	2610	rBV3	28196	64800	2.28%	0.423%
21	16.276	2612	2619	2627	rVB	55265	125138	4.40%	0.816%
22	16.390	2632	2638	2642	rBV2	25915	59566	2.09%	0.388%
23	16.439	2642	2646	2653	rVV2	31764	64327	2.26%	0.419%
24	16.541	2656	2663	2670	rVB2	45966	96372	3.39%	0.628%
25	16.715	2684	2692	2702	rBV3	96245	246457	8.66%	1.607%
26	16.974	2726	2735	2744	rVV	83212	198267	6.97%	1.293%
27	17.100	2751	2756	2762	rVB2	19663	39036	1.37%	0.255%
28	17.184	2762	2770	2778	rVB2	75002	190706	6.70%	1.243%
29	17.311	2781	2791	2803	rVB8	14326	52233	1.84%	0.341%
30	17.521	2819	2826	2833	rBV4	23037	62283	2.19%	0.406%
31	17.744	2854	2863	2870	rBV6	15240	45698	1.61%	0.298%
32	17.840	2870	2879	2896	rVV3	146091	573744	20.17%	3.741%

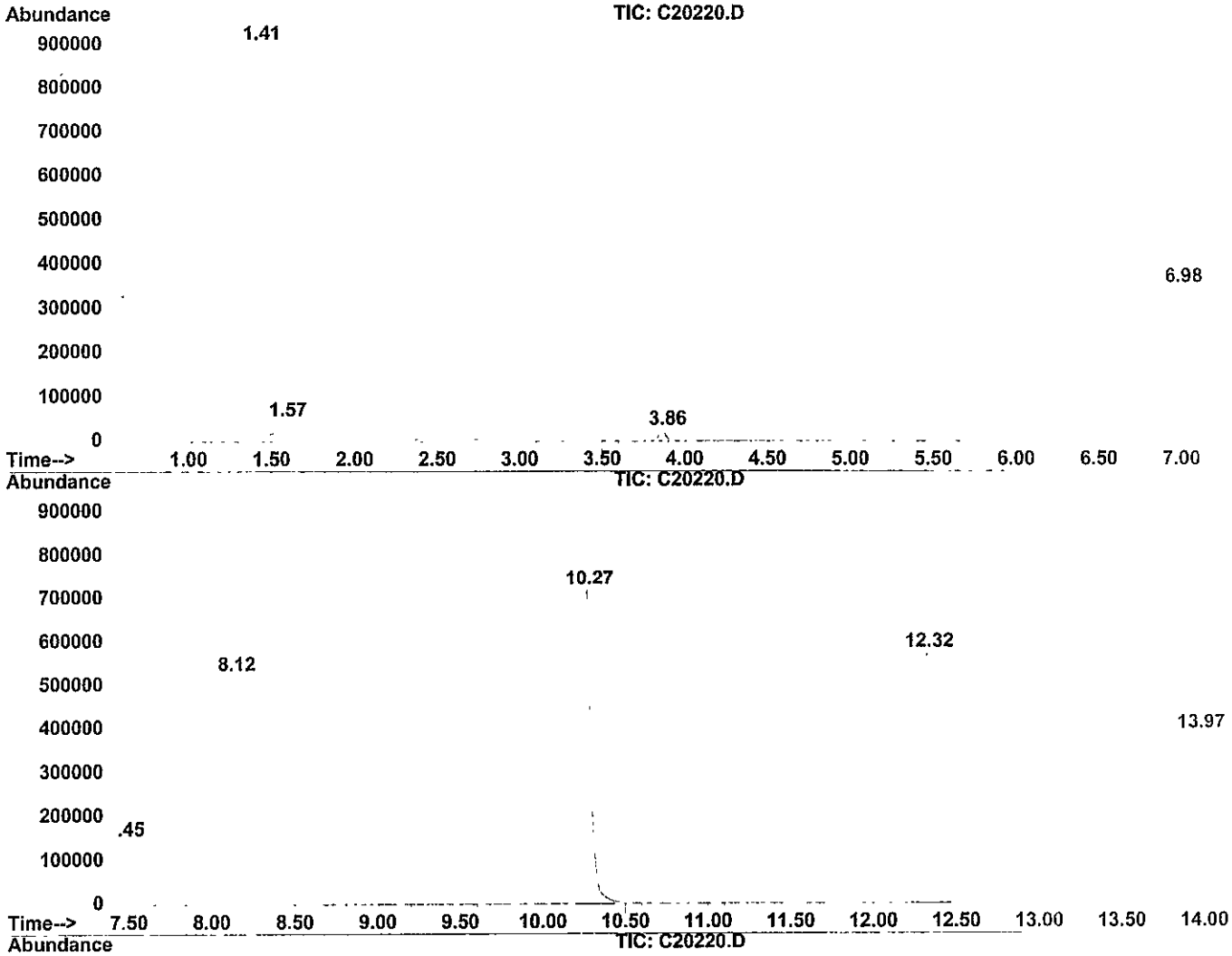
33	17.990	2896	2904	2915	rBV6	25265	74193	2.61%	0.484%
34	18.159	2922	2932	2946	rVB4	70468	235089	8.26%	1.533%
35	18.435	2967	2978	2987	rBV3	88721	299383	10.52%	1.952%
36	18.688	3014	3020	3031	rVB6	25753	81148	2.85%	0.529%
37	18.995	3060	3071	3073	rBV8	12616	33108	1.16%	0.216%
38	20.727	3347	3359	3371	rVB8	21575	85665	3.01%	0.559%

Sum of corrected areas: 15336353

C20220.D 05310125.M Fri Jun 01 08:27:54 2001

LSC Report - Integrated Chromatogram

File : C:\HPCHEM\1\DATA\053101\C20220.D
Operator : JP/VRR/DAT
Acquired : 31 May 2001 12:14 using AcqMethod 05310125
Instrument : HP013
Sample Name: AC14030 25ml DF=1
Misc Info : 27988/C05310125
Vial Number: 7
Quant File :05310125.RES (RTE Integrator)



C20220.D 05310125.M Fri Jun 01 08:27:55 2001

Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\053101\C20220.D
Acq On : 05/31/01 12:14
Sample : AC14030 25ml DF=1
Misc : 27988/C05310125
MS Integration Params: LSCINT.P

Vial:
Operator: JP/VRR/DAT
Inst : HP013
Multiplr: 1.00

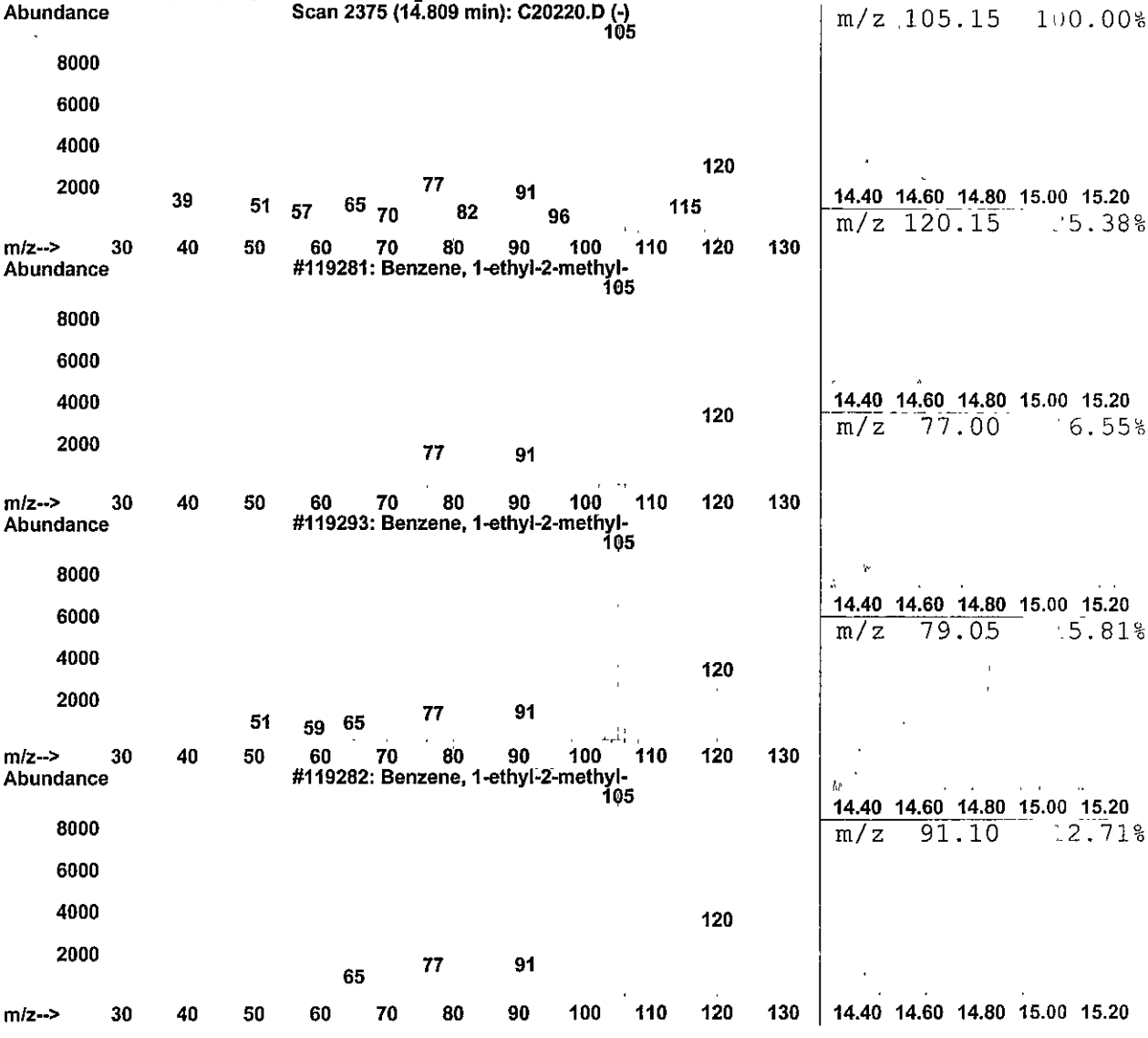
Quant Method : c:\hpchem\1\data\053101\05310125.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Library : C:\DATABASE\NIST98.L

****

Peak Number 1 Benzene, 1-ethyl-2-methyl- Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.81	1.26 ug\L	127041	1,4-Dichlorobenzene-d4	15.57

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1-ethyl-2-methyl-	120	C9H12	000611-14-3	94
2	Benzene, 1-ethyl-2-methyl-	120	C9H12	000611-14-3	91
3	Benzene, 1-ethyl-2-methyl-	120	C9H12	000611-14-3	91
4	Benzene, 1,3,5-trimethyl-	120	C9H12	000108-67-8	91



Data File : C:\HPCHEM\1\DATA\053101\C20220.D Vial: 7
Acq On : 05/31/01 12:14 Operator: JP/VRR/DAT
Sample : AC14030 25ml DF=1 Inst : HP013
Misc : 27988/C05310125 Multiplr: 1.00
MS Integration Params: LSCINT.P

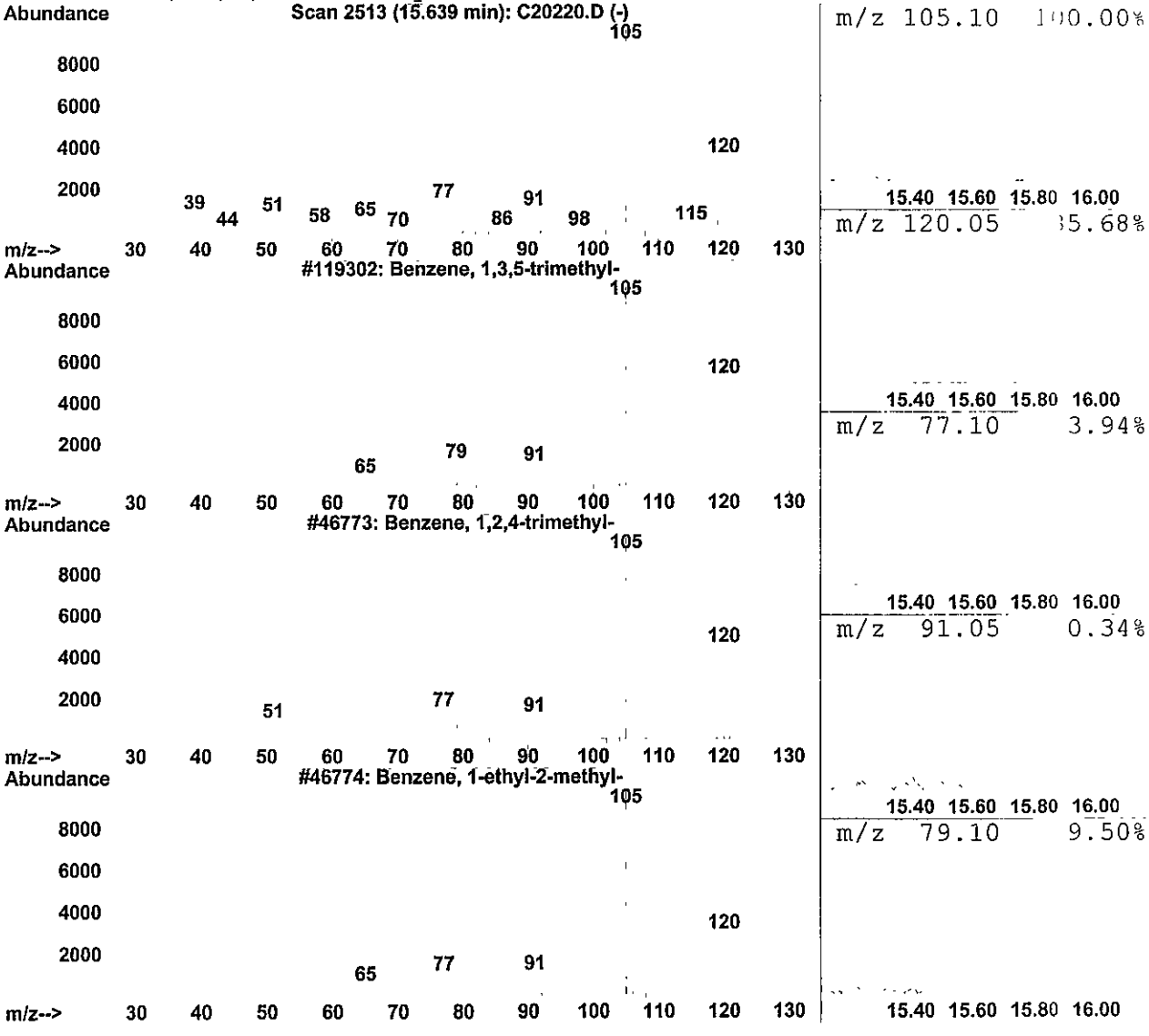
Quant Method : c:\hpchem\1\data\053101\05310125.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Library : C:\DATABASE\NIST98.L

****

Peak Number 2 Benzene, 1,3,5-trimethyl- Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.64	6.66 ug\L	673530	1,4-Dichlorobenzene-d4	15.57

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1,3,5-trimethyl-	120	C9H12	000108-67-8	94
2	Benzene, 1,2,4-trimethyl-	120	C9H12	000095-63-6	94
3	Benzene, 1-ethyl-2-methyl-	120	C9H12	000611-14-3	91
4	Benzene, 1,3,5-trimethyl-	120	C9H12	000108-67-8	91



Data File : C:\HPCHEM\1\DATA\053101\C20220.D Vial: 7
Acq On : 05/31/01 12:14 Operator: JP/VRR/DAT
Sample : AC14030 25ml DF=1 Inst : HP013
Misc : 27988/C05310125 Multiplr: 1.00
MS Integration Params: LSCINT.P

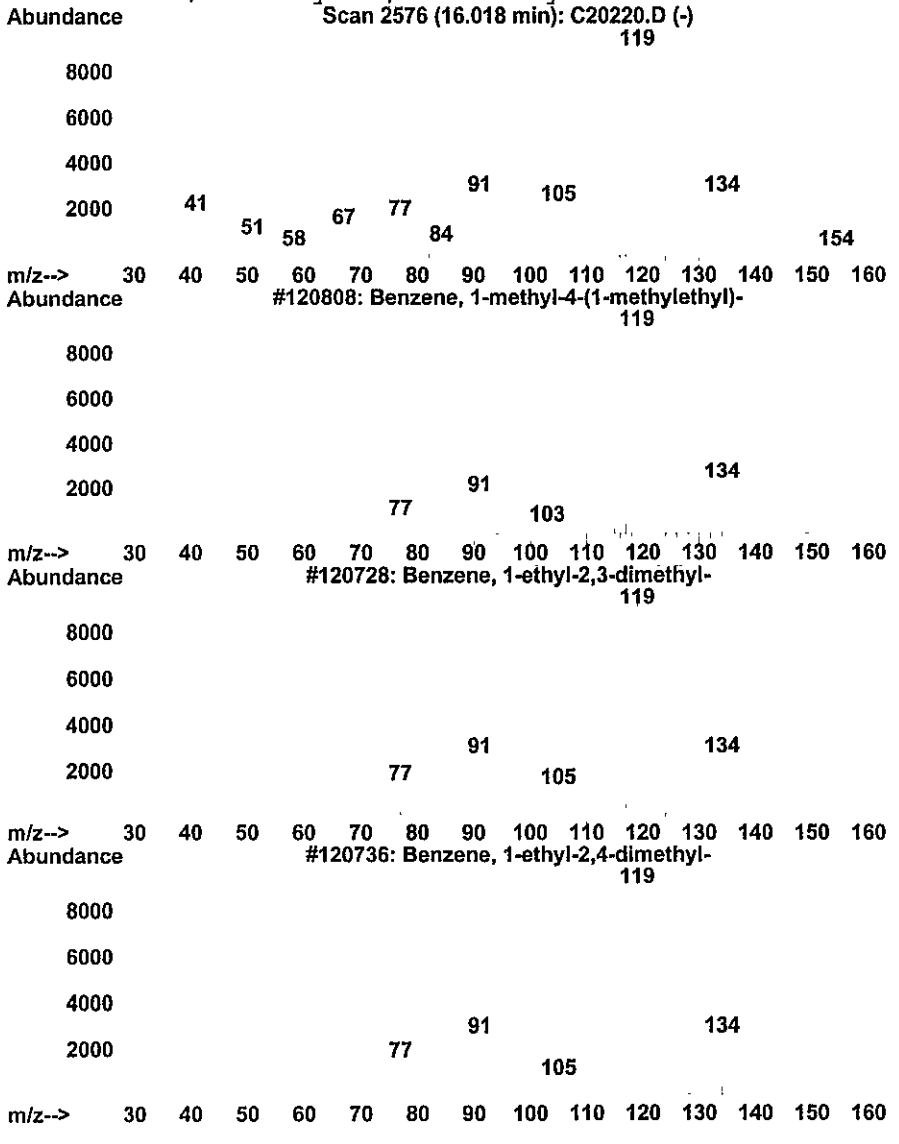
Quant Method : c:\hpchem\1\data\053101\05310125.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Library : C:\DATABASE\NIST98.L

****

Peak Number 3 Benzene, 1-methyl-4-(1-methyle Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.02	1.02 ug\L	102989	1,4-Dichlorobenzene-d4	16.57

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1-methyl-4-(1-methylethyl)	134	C10H14	000099-87-6	92
2	Benzene, 1-ethyl-2,3-dimethyl-	134	C10H14	000933-98-2	90
3	Benzene, 1-ethyl-2,4-dimethyl-	134	C10H14	000874-41-9	89
4	Benzene, 1-ethyl-2,3-dimethyl-	134	C10H14	000933-98-2	87



m/z 119.05 100.00%
m/z 91.05 76.02%
m/z 134.10 75.99%
m/z 105.05 21.90%
m/z 41.05 7.62%

Data File : C:\HPCHEM\1\DATA\053101\C20220.D Vial:
Acq On : 05/31/01 12:14 Operator: JP/VRR/DA
Sample : AC14030 25ml DF=1 Inst : HP01
Misc : 27988/C05310125 Multiplr: 1.00
MS Integration Params: LSCINT.P

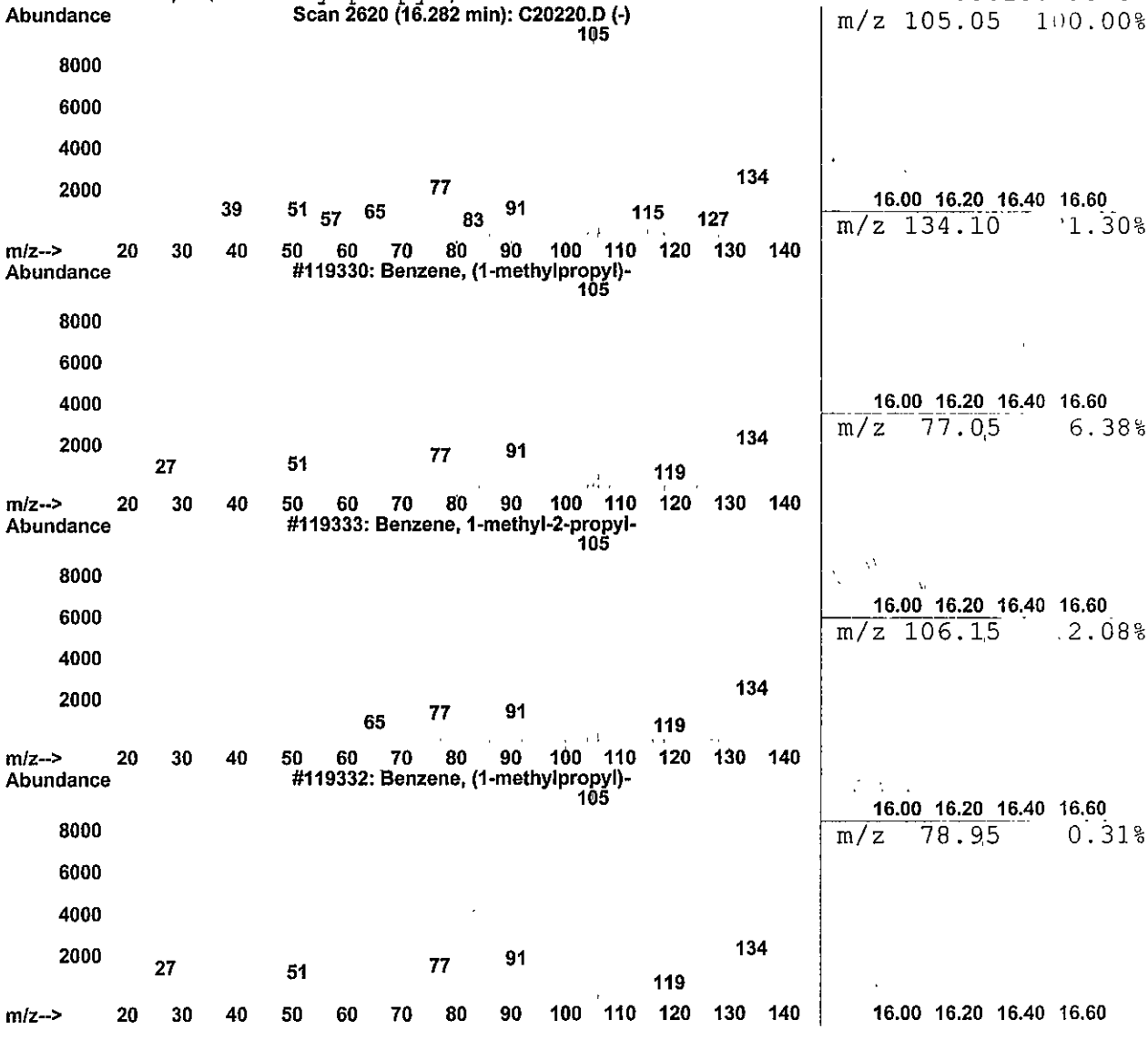
Quant Method : c:\hpchem\1\data\053101\05310125.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Library : C:\DATABASE\NIST98.L

****

Peak Number 4 Benzene, (1-methylpropyl)- Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.28	1.24 ug\L	125138	1,4-Dichlorobenzene-d4	15.57

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, (1-methylpropyl)-	134	C10H14	000135-98-8	91
2	Benzene, 1-methyl-2-propyl-	134	C10H14	001074-17-5	91
3	Benzene, (1-methylpropyl)-	134	C10H14	000135-98-8	91
4	Benzene, (1-methylpropyl)-	134	C10H14	000135-98-8	91



Data File : C:\HPCHEM\1\DATA\053101\C20220.D
Acq On : 05/31/01 12:14
Sample : AC14030 25ml DF=1
Misc : 27988/C05310125
MS Integration Params: LSCINT.P

Vial: 7
Operator: JP/VRR/DAT
Inst : HP013
Multiplr: 1.00

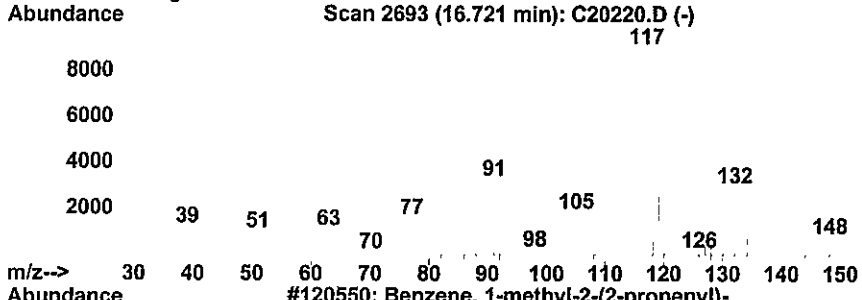
Quant Method : c:\hpchem\1\data\053101\05310125.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Library : C:\DATABASE\NIST98.L

****

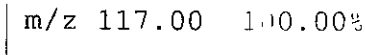
Peak Number 5 Benzene, 1-methyl-2-(2-propeny Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.72	2.44 ug\L	246457	1,4-Dichlorobenzene-d4	16.57

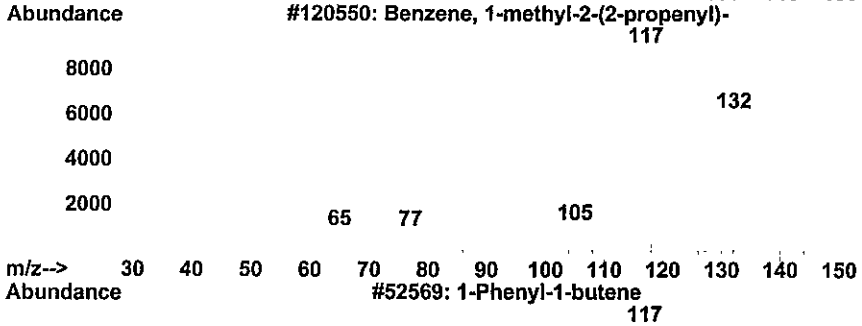
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1-methyl-2-(2-propenyl)-	132	C10H12	001587-04-8	70
2	1-Phenyl-1-butene	132	C10H12	000824-90-8	70
3	Indan, 1-methyl-	132	C10H12	000767-58-8	70
4	1-Phenyl-1-butene	132	C10H12	000824-90-8	70

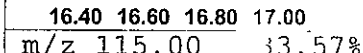


m/z 117.00 100.00%

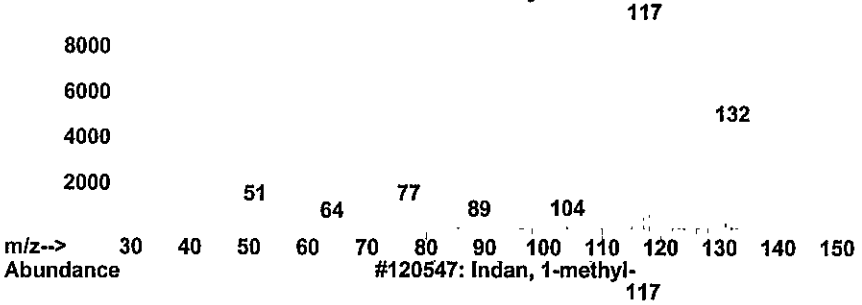


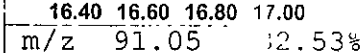
m/z 119.15 75.39%



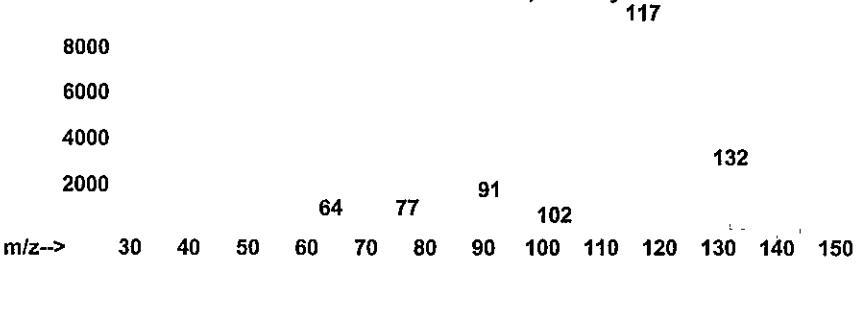


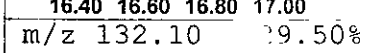
m/z 115.00 83.57%





m/z 91.05 82.53%





m/z 132.10 29.50%

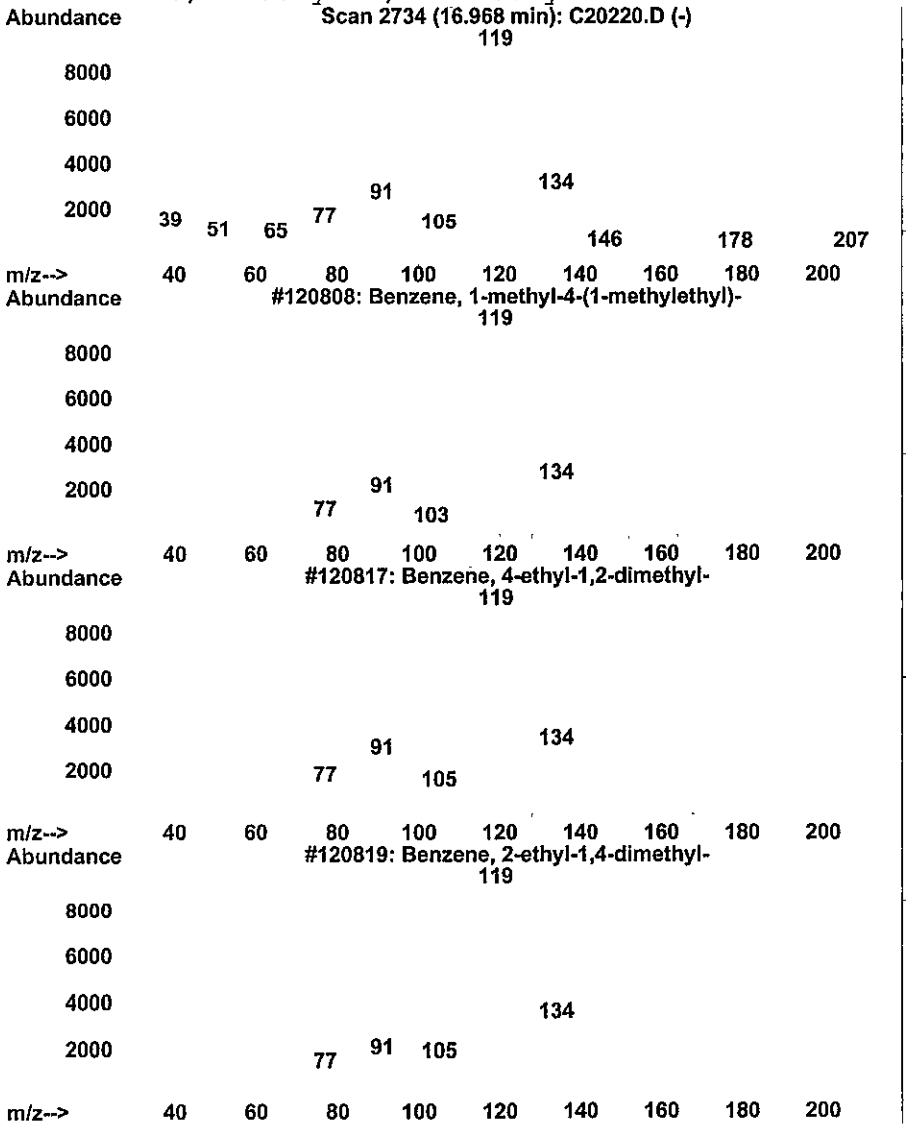
Data File : C:\HPCHEM\1\DATA\053101\C20220.D Vial: 7
Acq On : 05/31/01 12:14 Operator: JP/VRR/DAT
Sample : AC14030 25ml DF=1 Inst : HP013
Misc : 27988/C05310125 Multiplr: 1.00
MS Integration Params: LSCINT.P

Quant Method : c:\hpchem\1\data\053101\05310125.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Library : C:\DATABASE\NIST98.L

Peak Number 6 Benzene, 1-methyl-4-(1-methyle Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.97	1.96 ug\L	198267	1,4-Dichlorobenzene-d4	16.57

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1-methyl-4-(1-methylethyl)	134	C10H14	000099-87-6	93
2	Benzene, 4-ethyl-1,2-dimethyl-	134	C10H14	000934-80-5	92
3	Benzene, 2-ethyl-1,4-dimethyl-	134	C10H14	001758-88-9	91
4	Benzene, 2-ethyl-1,4-dimethyl-	134	C10H14	001758-88-9	90



Data File : C:\HPCHEM\1\DATA\053101\C20220.D Vial: 7
Acq On : 05/31/01 12:14 Operator: JP/VRR/DA
Sample : AC14030 25ml DF=1 Inst : HP013
Misc : 27988/C05310125 Multiplr: 1.00
MS Integration Params: LSCINT.P

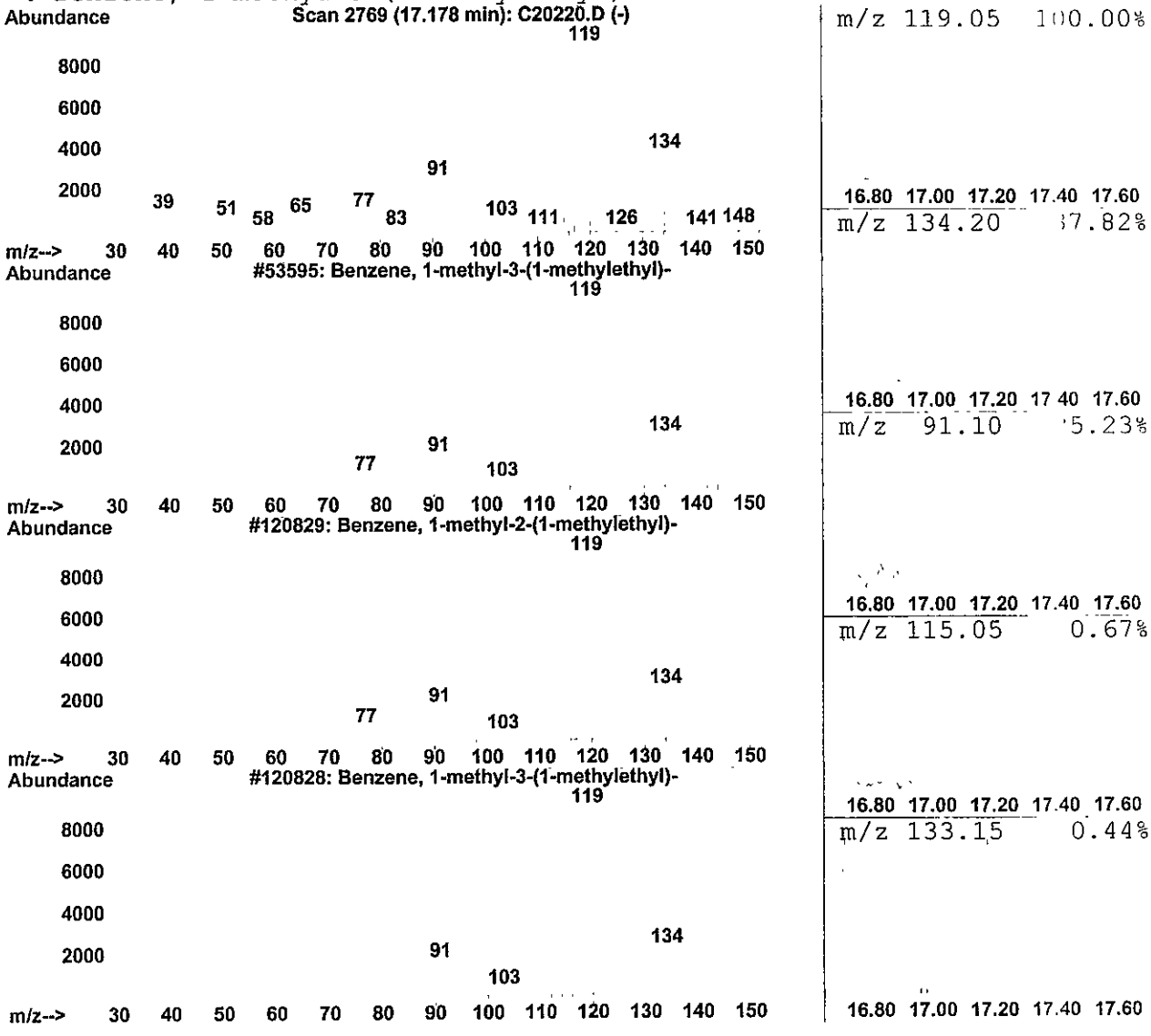
Quant Method : c:\hpchem\1\data\053101\05310125.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Library : C:\DATABASE\NIST98.L

****

Peak Number 7 Benzene, 1-methyl-3-(1-methyle Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.18	1.89 ug\L	190706	1,4-Dichlorobenzene-d4	15.57

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1-methyl-3-(1-methylethyl)	134	C10H14	000535-77-3	91
2	Benzene, 1-methyl-2-(1-methylethyl)	134	C10H14	000527-84-4	91
3	Benzene, 1-methyl-3-(1-methylethyl)	134	C10H14	000535-77-3	91
4	Benzene, 1-methyl-3-(1-methylethyl)	134	C10H14	000535-77-3	91



Data File : C:\HPCHEM\1\DATA\053101\C20220.D Vial: 7
Acq On : 05/31/01 12:14 Operator: JP/VRR/DAT
Sample : AC14030 25ml DF=1 Inst : HP013
Misc : 27988/C05310125 Multiplr: 1.00
MS Integration Params: LSCINT.P

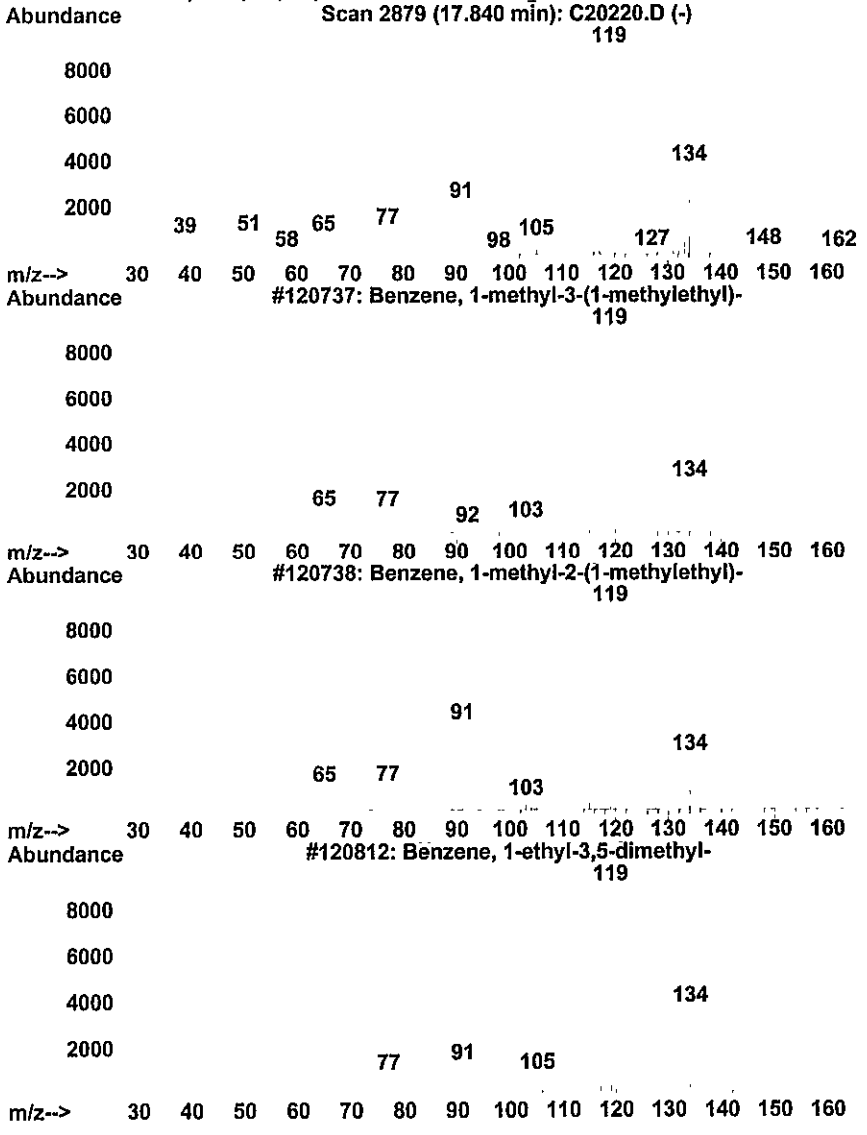
Quant Method : c:\hpchem\1\data\053101\05310125.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Library : C:\DATABASE\NIST98.L

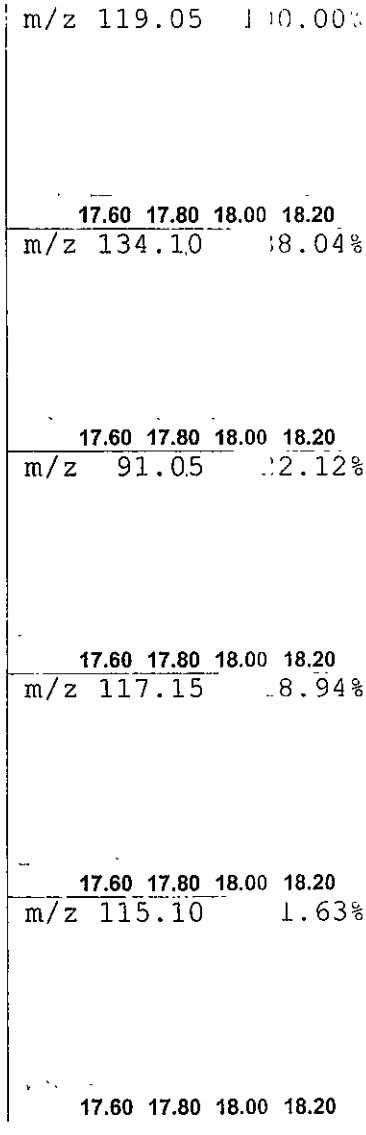
****

Peak Number 8 Benzene, 1-methyl-3-(1-methyle Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.84	5.67 ug\L	573744	1,4-Dichlorobenzene-d4	17.57

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1-methyl-3-(1-methylethyl)	134	C10H14	000535-77-3	91
2	Benzene, 1-methyl-2-(1-methylethyl)	134	C10H14	000527-84-4	91
3	Benzene, 1-ethyl-3,5-dimethyl-	134	C10H14	000934-74-7	91
4	Benzene, 1,2,4,5-tetramethyl-	134	C10H14	000095-93-2	87





Data File : C:\HPCHEM\1\DATA\053101\C20220.D Vial: 7
Acq On : 05/31/01 12:14 Operator: JP/VRR/DAT
Sample : AC14030 25ml DF=1 Inst : HP01
Misc : 27988/C05310125 Multiplr: 1.00
MS Integration Params: LSCINT.P

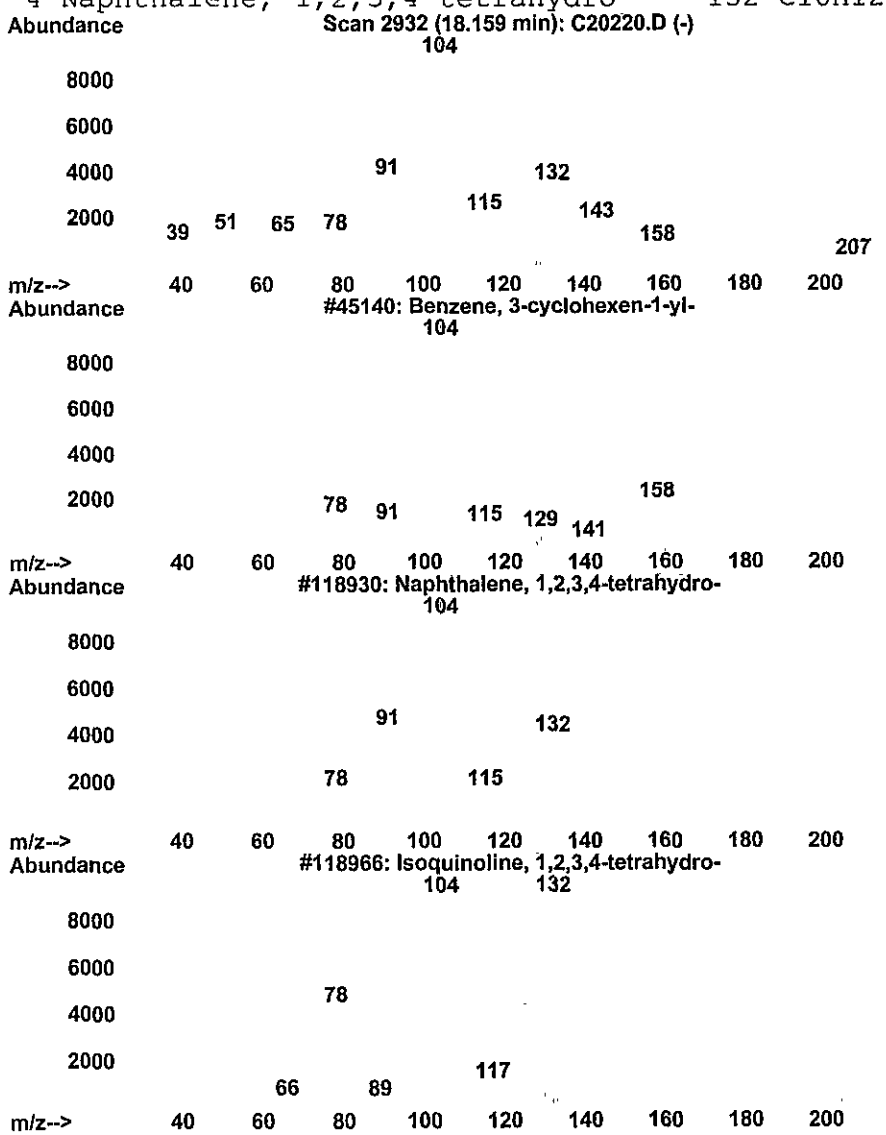
Quant Method : c:\hpchem\1\data\053101\05310125.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Library : C:\DATABASE\NIST98.L

****

Peak Number 9 Benzene, 3-cyclohexen-1-yl- Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.16	2.32 ug\L	235089	1,4-Dichlorobenzene-d4	18.57

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 3-cyclohexen-1-yl-	158	C12H14	004994-16-5	49
2	Naphthalene, 1,2,3,4-tetrahydro-	132	C10H12	000119-64-2	46
3	Isoquinoline, 1,2,3,4-tetrahydro-	133	C9H11N	000091-21-4	43
4	Naphthalene, 1,2,3,4-tetrahydro-	132	C10H12	000119-64-2	41



m/z 104.05 100.00%
m/z 91.05 37.35%
m/z 132.10 34.81%
m/z 128.10 27.01%
m/z 115.00 21.86%

Data File : C:\HPCHEM\1\DATA\053101\C20220.D
Acq On : 05/31/01 12:14
Sample : AC14030 25ml DF=1
Misc : 27988/C05310125
MS Integration Params: LSCINT.P

Vial: 7
Operator: JP/VRR/DAT
Inst : HP013
Multiplr: 1.00

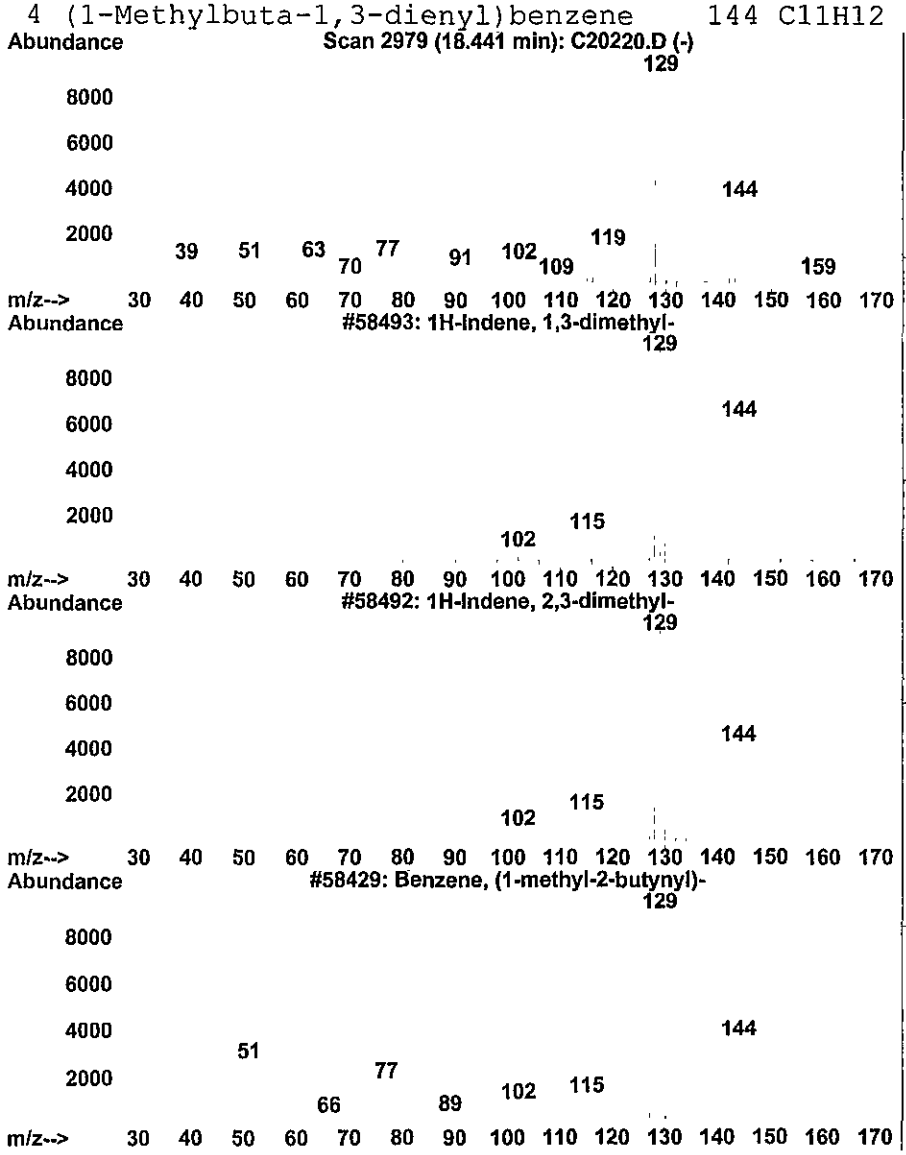
Quant Method : c:\hpchem\1\data\053101\05310125.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Library : C:\DATABASE\NIST98.L

****

Peak Number 10 1H-Indene, 1,3-dimethyl- Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.44	2.96 ug\L	299383	1,4-Dichlorobenzene-d4	15.57

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1H-Indene, 1,3-dimethyl-	144	C11H12	002177-48-2	95
2	1H-Indene, 2,3-dimethyl-	144	C11H12	004773-82-4	94
3	Benzene, (1-methyl-2-butynyl)-	144	C11H12	087712-69-4	90
4	(1-Methylbuta-1,3-dienyl)benzene	144	C11H12	054758-36-0	90



m/z 129.05 100.00%
m/z 128.10 49.73%
m/z 144.10 34.70%
m/z 127.05 24.96%
m/z 119.05 23.37%

Tentatively Identified Compound (LSC) summary

Operator ID: JP/VRR/DAT Date Acquired: 31 May 2001 12:14
Data File: C:\HPCHEM\1\DATA\053101\C20220.D
Name: AC14030 25ml DF=1
Misc: 27988/C05310125
Method: c:\hpchem\1\data\053101\05310125.M (RTE Integrator)
Title: 8260 CALIBRATION FOR 25ML WATER
Library Searched: C:\DATABASE\NIST98.L

TIC Top Hit name	RT	EstConc	Units	Area	IntStd	ISRT	ISArea	ISConc
Benzene, 1-ethyl-2-m	14.81	1.3	ug\L	127041	ISTD04	15.57	1011400	10.0
Benzene, 1,3,5-trime	15.64	6.7	ug\L	673530	ISTD04	15.57	1011400	10.0
Benzene, 1-methyl-4-	16.02	1.0	ug\L	102989	ISTD04	15.57	1011400	10.0
Benzene, (1-methylpr	16.28	1.2	ug\L	125138	ISTD04	15.57	1011400	10.0
Benzene, 1-methyl-2-	16.72	2.4	ug\L	246457	ISTD04	15.57	1011400	10.0
Benzene, 1-methyl-4-	16.97	2.0	ug\L	198267	ISTD04	15.57	1011400	10.0
Benzene, 1-methyl-3-	17.18	1.9	ug\L	190706	ISTD04	15.57	1011400	10.0
Benzene, 1-methyl-3-	17.84	5.7	ug\L	573744	ISTD04	15.57	1011400	10.0
Benzene, 3-cyclohexe	18.16	2.3	ug\L	235089	ISTD04	15.57	1011400	10.0
1H-Indene, 1,3-dimet	18.44	3.0	ug\L	299383	ISTD04	15.57	1011400	10.0

C20220.D 05310125.M Fri Jun 01 08:28:02 2001

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\053101\C20221.D Vial: 6
Acq On : 05/31/01 12:39 Operator: JP/VRR/DAT
Sample : AC14031 25ml DF=1 Inst : HP013
Misc : 27988/C05310125 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 1 8:36 2001 Quant Results File: C05310125.RES

Quant Method : c:\hpchem\1\data\053101\05310125.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Wed May 30 13:53:00 2001
Response via : Initial Calibration
DataAcq Meth : 05310125

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	6.97	168	360892	10.00	ug\L	0.00
45) Chlorobenzene-d5	12.33	117	424552	10.00	ug\L	0.00
61) 1,4-Dichlorobenzene-d4	15.57	152	156449	10.00	ug\L	0.00
88) 1.4-Difluorobenzene	0.00	116	0m	10.00	ug\L	-8.12
System Monitoring Compounds						
32) 1,2-Dichloroethane-d4	7.45	65	157645	11.00	ug\L	0.01
Spiked Amount 10.000	Range 80 - 120		Recovery = 110.00%			
46) Toluene-d8	10.27	98	674660	10.82	ug\L	0.00
Spiked Amount 10.000	Range 87 - 104		Recovery = 108.20%#			
66) Bromofluorobenzene	13.97	95	193565	10.39	ug\L	0.00
Spiked Amount 10.000	Range 84 - 110		Recovery = 103.90%			
Target Compounds						Qvalue
16) Methylene Chloride	3.86	86	9970	1.09	ug\L	98

1.1 J

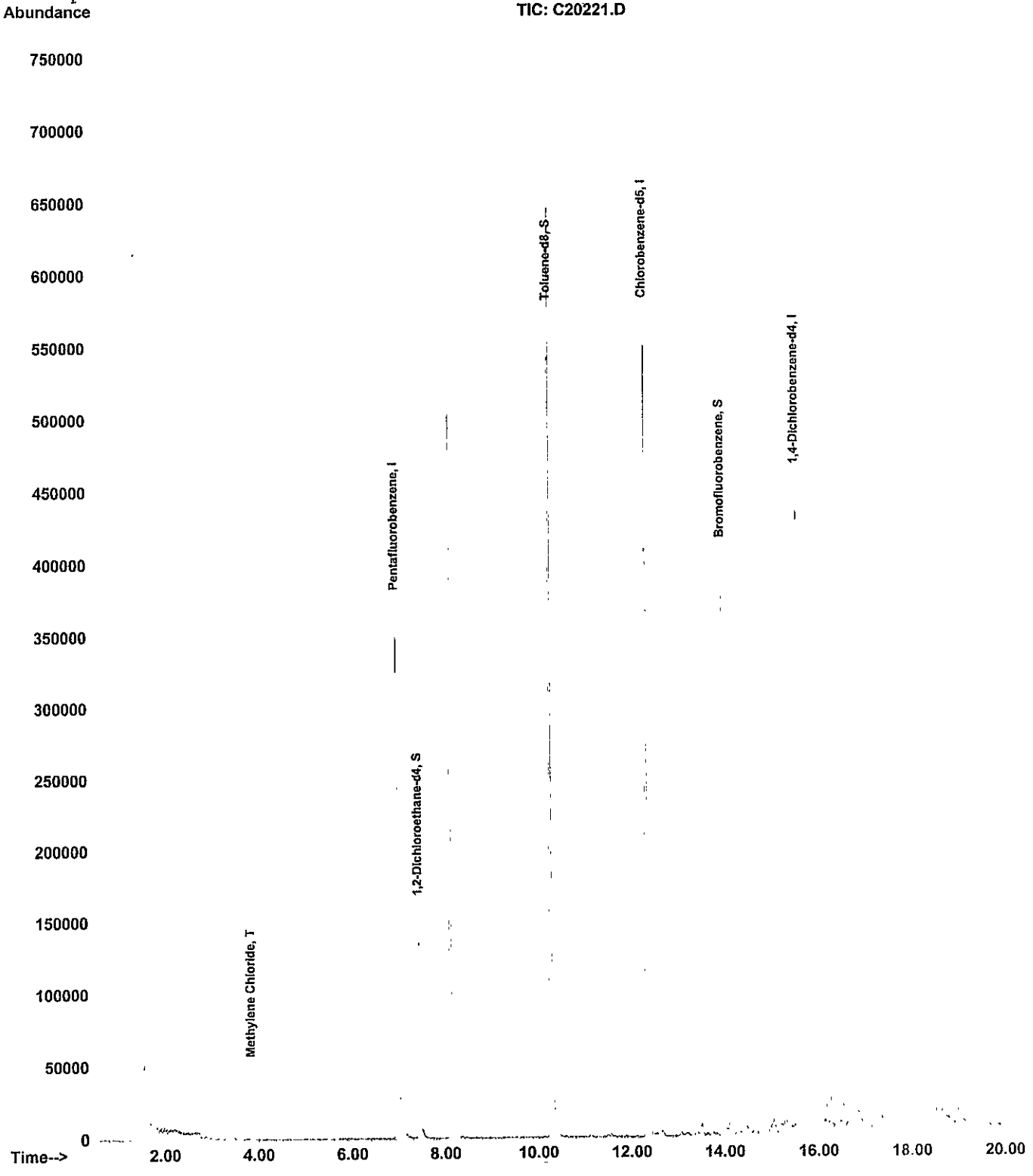
6-1-01

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\053101\C20221.D Vial: 5
Acq On : 05/31/01 12:39 Operator: [illegible]/VRR/DAT
Sample : AC14031 25ml DF=1 Inst : H[illegible]013
Misc : 27988/C05310125 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 1 8:36 2001 Quant Results File: C[illegible]310125.RES

Method : C:\HPCHEM\1\DATA\053101\05310125.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Wed May 30 13:53:00 2001
Response via : Initial Calibration



LSC Area Percent Report

Data File : C:\HPCHEM\1\DATA\053101\C20221.D Vial: 8
Acq On : 05/31/01 12:39 Operator: JP/VIR/DAT
Sample : AC14031 25ml DF=1 Inst : HP01
Misc : 27988/C05310125 Multiplr: 1.00
MS Integration Params: LSCINT.P

Method : C:\HPCHEM\1\DATA\053101\05310125.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.02 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Signal : TIC

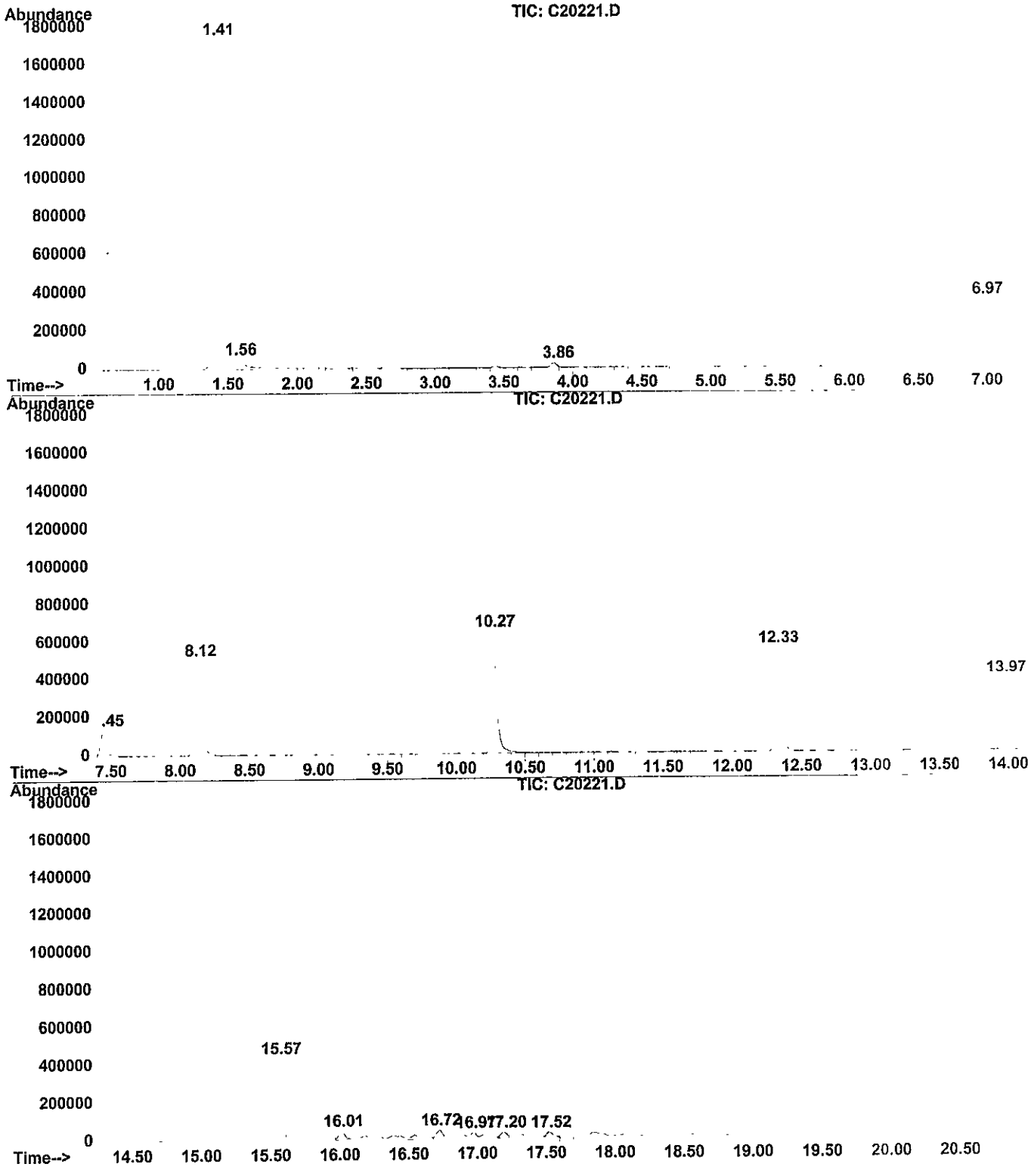
peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	peak area	peak % max.	% of total
1	1.410	131	147	162	rBV	1823634	5574949	100.00%	38.724%
2	1.560	167	172	192	rVB2	42522	193274	3.47%	1.342%
3	3.863	545	555	567	rBV2	24125	68545	1.23%	0.476%
4	6.973	1057	1072	1082	rBV	349906	1062517	19.06%	7.380%
5	7.448	1139	1151	1166	rBV	135951	400586	7.19%	2.782%
6	8.121	1252	1263	1286	rBV	503792	1425015	25.56%	9.898%
7	10.274	1610	1621	1648	rBV	647649	1854829	33.27%	12.884%
8	12.325	1952	1962	1984	rBV	551703	1426616	25.59%	9.909%
9	13.973	2226	2236	2251	rBV	384235	946423	16.98%	6.574%
10	15.567	2491	2501	2510	rBV	429020	1015555	18.22%	7.054%
11	16.012	2567	2575	2585	rVB4	40885	113794	2.04%	0.790%
12	16.722	2685	2693	2701	rBV5	40742	109187	1.96%	0.758%
13	16.974	2728	2735	2741	rVB5	24074	56303	1.01%	0.391%
14	17.197	2763	2772	2780	rBV5	27120	80682	1.45%	0.560%
15	17.522	2819	2826	2837	rBV5	24399	68425	1.23%	0.475%

Sum of corrected areas: 14396700

C20221.D 05310125.M Fri Jun 01 08:37:32 2001

LSC Report - Integrated Chromatogram

File : C:\HPCHEM\1\DATA\053101\C20221.D
Operator : JP/VRR/DAT
Acquired : 31 May 2001 12:39 using AcqMethod 05310125
Instrument : HP013
Sample Name: AC14031 25ml DF=1
Misc Info : 27988/C05310125
Vial Number: 8
Quant File :05310125.RES (RTE Integrator)



C20221.D 05310125.M Fri Jun 01 08:37:33 2001

Data File : C:\HPCHEM\1\DATA\053101\C20221.D Vial: 8
Acq On : 05/31/01 12:39 Operator: JP/VRR/DAL
Sample : AC14031 25ml DF=1 Inst : HP013
Misc : 27988/C05310125 Multiplr: 1.00
MS Integration Params: LSCINT.P

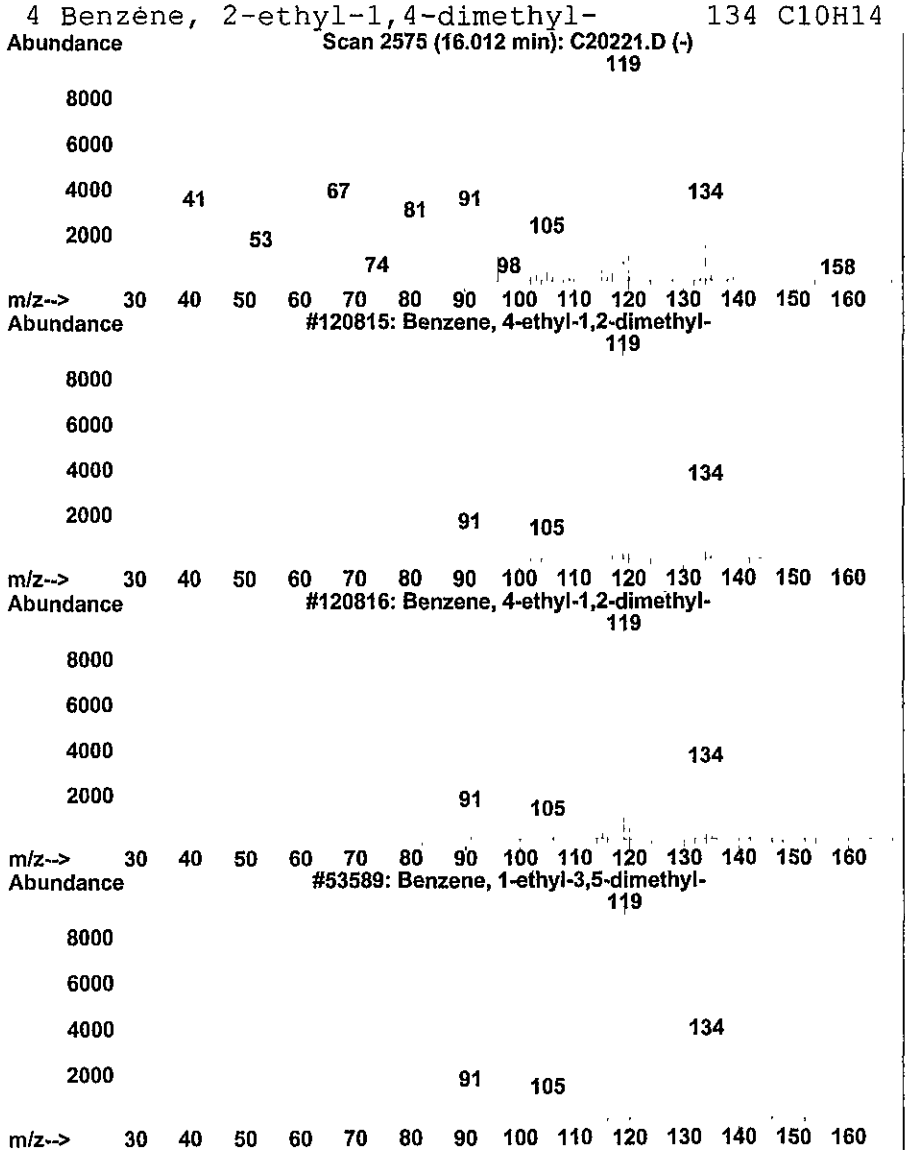
Quant Method : c:\hpchem\1\data\053101\05310125.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Library : C:\DATABASE\NIST98.L

****

Peak Number 1 Benzene, 4-ethyl-1,2-dimethyl- Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.01	1.12 ug\L	113794	1,4-Dichlorobenzene-d4	15.57

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 4-ethyl-1,2-dimethyl-	134	C10H14	000934-80-5	91
2	Benzene, 4-ethyl-1,2-dimethyl-	134	C10H14	000934-80-5	90
3	Benzene, 1-ethyl-3,5-dimethyl-	134	C10H14	000934-74-7	83
4	Benzene, 2-ethyl-1,4-dimethyl-	134	C10H14	001758-88-9	64



m/z 119.05 100.00%

15.60 15.80 16.00 16.20 16.40
m/z 67.10 34.52%

15.60 15.80 16.00 16.20 16.40
m/z 134.10 34.18%

15.60 15.80 16.00 16.20 16.40
m/z 91.10 31.26%

15.60 15.80 16.00 16.20 16.40
m/z 41.05 30.76%

15.60 15.80 16.00 16.20 16.40

Data File : C:\HPCHEM\1\DATA\053101\C20221.D
Acq On : 05/31/01 12:39
Sample : AC14031 25ml DF=1
Misc : 27988/C05310125
MS Integration Params: LSCINT.P

Vial: 8
Operator: JP/VRR/DAT
Inst : HP013
Multiplr: 1.00

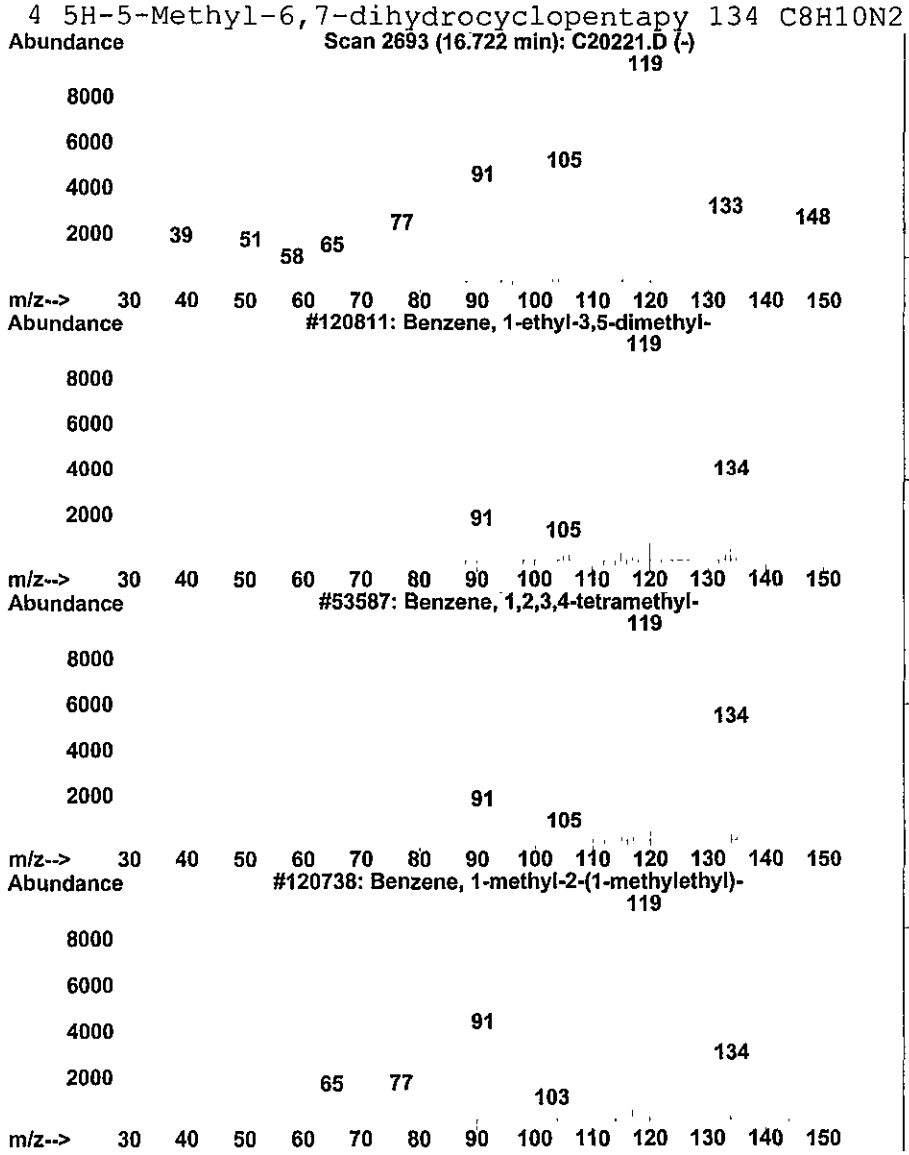
Quant Method : c:\hpchem\1\data\053101\05310125.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Library : C:\DATABASE\NIST98.L

****

Peak Number 2 Benzene, 1-ethyl-3,5-dimethyl- Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.72	1.08 ug\L	109187	1,4-Dichlorobenzene-d4	16.57

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1-ethyl-3,5-dimethyl-	134	C10H14	000934-74-7	46
2	Benzene, 1,2,3,4-tetramethyl-	134	C10H14	000488-23-3	43
3	Benzene, 1-methyl-2-(1-methylethyl)	134	C10H14	000527-84-4	43
4	5H-5-Methyl-6,7-dihydrocyclopentapy	134	C8H10N2	023747-48-0	38



Tentatively Identified Compound (LSC) summary

Operator ID: JP/VRR/DAT Date Acquired: 31 May 2001 12:39
Data File: C:\HPCHEM\1\DATA\053101\C20221.D
Name: AC14031 25ml DF=1
Misc: 27988/C05310125
Method: c:\hpchem\1\data\053101\05310125.M (RTE Integrator)
Title: 8260 CALIBRATION FOR 25ML WATER
Library Searched: C:\DATABASE\NIST98.L

TIC Top Hit name	RT	EstConc	Units	Area	IntStd	ISRT	ISArea	ISConc
Benzene, 4-ethyl-1,2	16.01	1.1	ug\L	113794	ISTD04	15.57	1015960	10.0
Benzene, 1-ethyl-3,5	16.72	1.1	ug\L	109187	ISTD04	15.57	1015960	10.0

C20221.D 05310125.M Fri Jun 01 08:37:35 2001

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\053101\C20222.D Vial: 9
Acq On : 05/31/01 13:05 Operator: JP/VRR/DAT
Sample : AC14032 25ml DF=1 Inst : HP013
Misc : 27988/C05310125 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 1 8:38 2001 Quant Results File: C05310125.RES

Quant Method : c:\hpchem\1\data\053101\05310125.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Wed May 30 13:53:00 2001
Response via : Initial Calibration
DataAcq Meth : 05310125

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	6.98	168	374387	10.00	ug\L	0.01
45) Chlorobenzene-d5	12.32	117	397850	10.00	ug\L	0.00
61) 1,4-Dichlorobenzene-d4	15.56	152	133069	10.00	ug\L	0.00
88) 1.4-Difluorobenzene	0.00	116	0m	10.00	ug\L	-8.12
System Monitoring Compounds						
32) 1,2-Dichloroethane-d4	7.45	65	163834	11.02	ug\L	0.02
Spiked Amount 10.000	Range 80 - 120		Recovery = 110.20%			
46) Toluene-d8	10.27	98	695378	11.90	ug\L	0.00
Spiked Amount 10.000	Range 87 - 104		Recovery = 119.00%#			
66) Bromofluorobenzene	13.97	95	175044	11.05	ug\L	0.00
Spiked Amount 10.000	Range 84 - 110		Recovery = 110.50%#			
Target Compounds						Qvalue
3) Chloromethane	1.74	50	11344	0.59	ug\L	98 0.59J
16) Methylene Chloride	3.86	86	9031	0.95	ug\L	95 0.95J

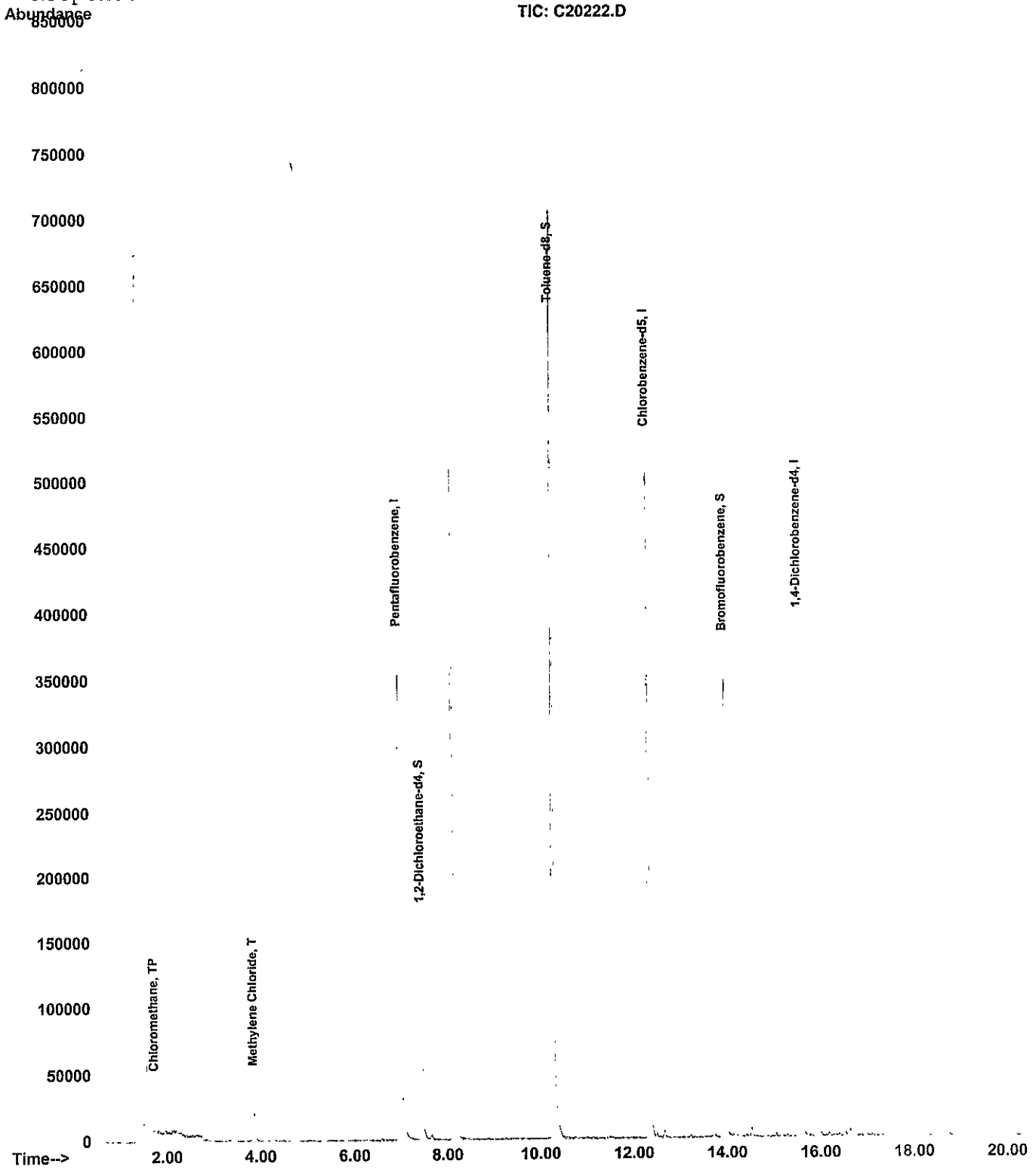
VRR
6.1.01

(#) = qualifier out of range (m) = manual integration
C20222.D 05310125.M Fri Jun 01 08:38:56 2001 Page

Quantitation Report

Data File : C:\HPCHEM\1\DATA\053101\C20222.D Vial: 9
Acq On : 05/31/01 13:05 Operator: JP/VRR/DAT
Sample : AC14032 25ml DF=1 Inst : HP013
Misc : 27988/C05310125 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 1 8:38 2001 Quant Results File: C05310125.RES

Method : C:\HPCHEM\1\DATA\053101\05310125.M (RTE Integrato.)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Wed May 30 13:53:00 2001
Response via : Initial Calibration



LSC Area Percent Report

Data File : C:\HPCHEM\1\DATA\053101\C20222.D Vial: 9
Acq On : 05/31/01 13:05 Operator: JP/VKR/DAT
Sample : AC14032 25ml DF=1 Inst : HP0[illegible]
Misc : 27988/C05310125 Multiplr: 1.00
MS Integration Params: LSCINT.P

Method : C:\HPCHEM\1\DATA\053101\05310125.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.02 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Signal : TIC

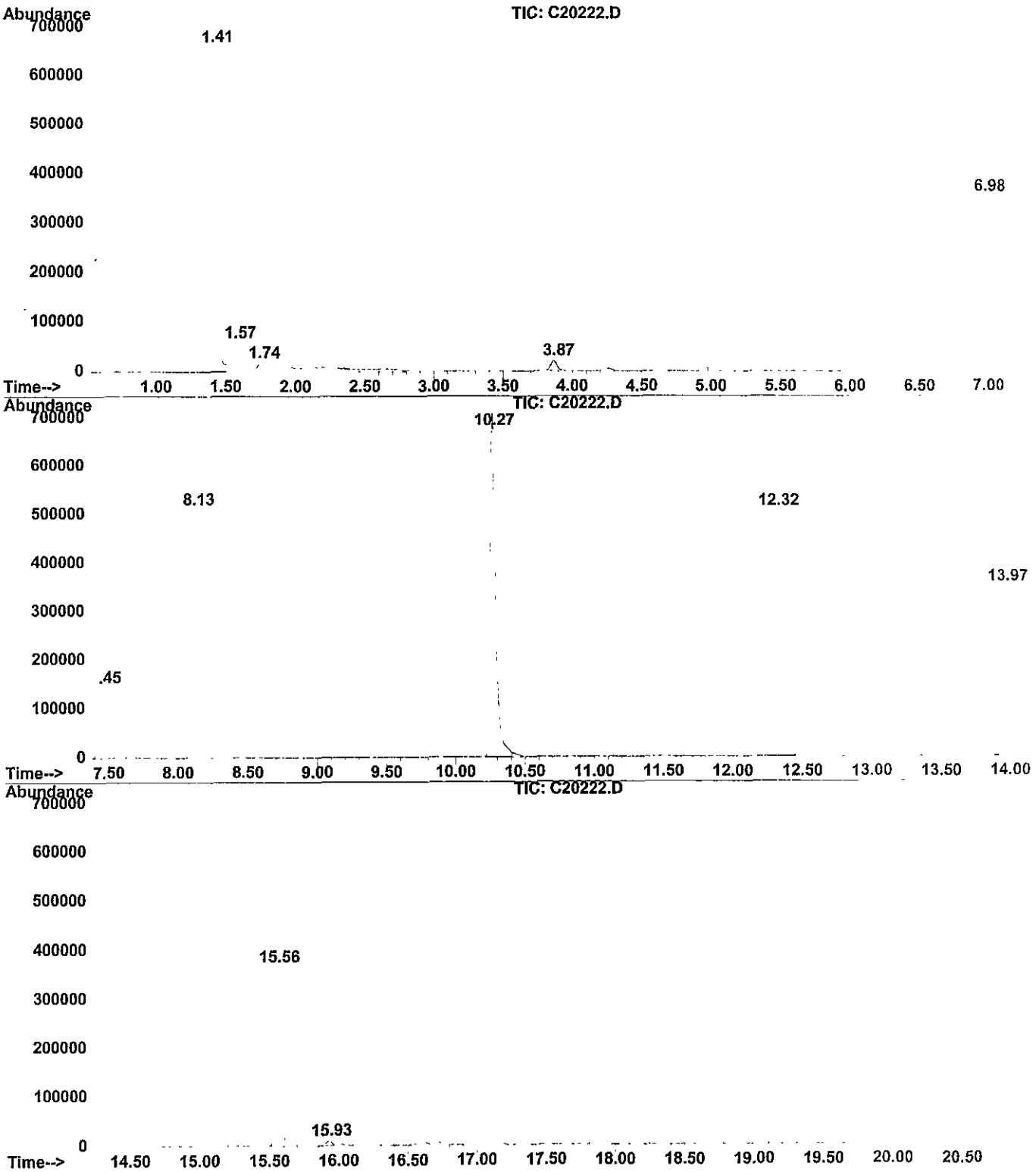
peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	peak area	peak % max.	% of total
1	1.408	131	147	162	rBV	659932	2082084	100.00%	20.080%
2	1.570	162	174	187	rVV	46467	212237	10.19%	2.047%
3	1.745	199	203	209	rVB2	12360	21705	1.04%	0.209%
4	3.868	547	556	565	rVB3	20291	54768	2.63%	0.528%
5	6.977	1059	1073	1084	rBV	354605	1102728	52.96%	10.635%
6	7.446	1141	1151	1167	rBV	144335	425275	20.43%	4.101%
7	8.126	1252	1264	1292	rBV	510226	1476831	70.93%	14.243%
8	10.273	1611	1621	1643	rBV	707679	1925095	92.46%	18.566%
9	12.324	1951	1962	1983	rBV	506545	1327039	63.74%	12.798%
10	13.971	2221	2236	2249	rBV	349022	837592	40.23%	8.078%
11	15.559	2491	2500	2512	rBV	366414	878518	42.19%	8.472%
12	15.932	2552	2562	2567	rBV4	9651	25287	1.21%	0.244%

Sum of corrected areas: 10369159

C20222.D 05310125.M Fri Jun 01 08:39:20 2001

LSC Report - Integrated Chromatogram

File : C:\HPCHEM\1\DATA\053101\C20222.D
Operator : JP/VRR/DAT
Acquired : 31 May 2001 13:05 using AcqMethod 05310125
Instrument : HP013
Sample Name: AC14032 25ml DF=1
Misc Info : 27988/C05310125
Vial Number: 9
Quant File :05310125.RES (RTE Integrator)



C20222.D 05310125.M Fri Jun 01 08:39:21 2001

Tentatively Identified Compound (LSC) summary

Operator ID: JP/VRR/DAT Date Acquired: 31 May 2001 13:05
Data File: C:\HPCHEM\1\DATA\053101\C20222.D
Name: AC14032 25ml DF=1
Misc: 27988/C05310125
Method: c:\hpchem\1\data\053101\05310125.M (RTE Integrator)
Title: 8260 CALIBRATION FOR 25ML WATER
Library Searched: C:\DATABASE\NIST98.L

TIC Top Hit name	RT	EstConc	Units	Area	IntStd	ISRT	ISArea	ISConc

C20222.D 05310125.M Fri Jun 01 08:39:21 2001

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\053101\C20223.D Vial: 1
Acq On : 05/31/01 13:31 Operator: JV/VRR/DAT
Sample : AC14033 25ml DF=1 Inst : HP013
Misc : 27988/C05310125 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 1 8:40 2001 Quant Results File: C05310125.RES

Quant Method : c:\hpchem\1\data\053101\05310125.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Wed May 30 13:53:00 2001
Response via : Initial Calibration
DataAcq Meth : 05310125

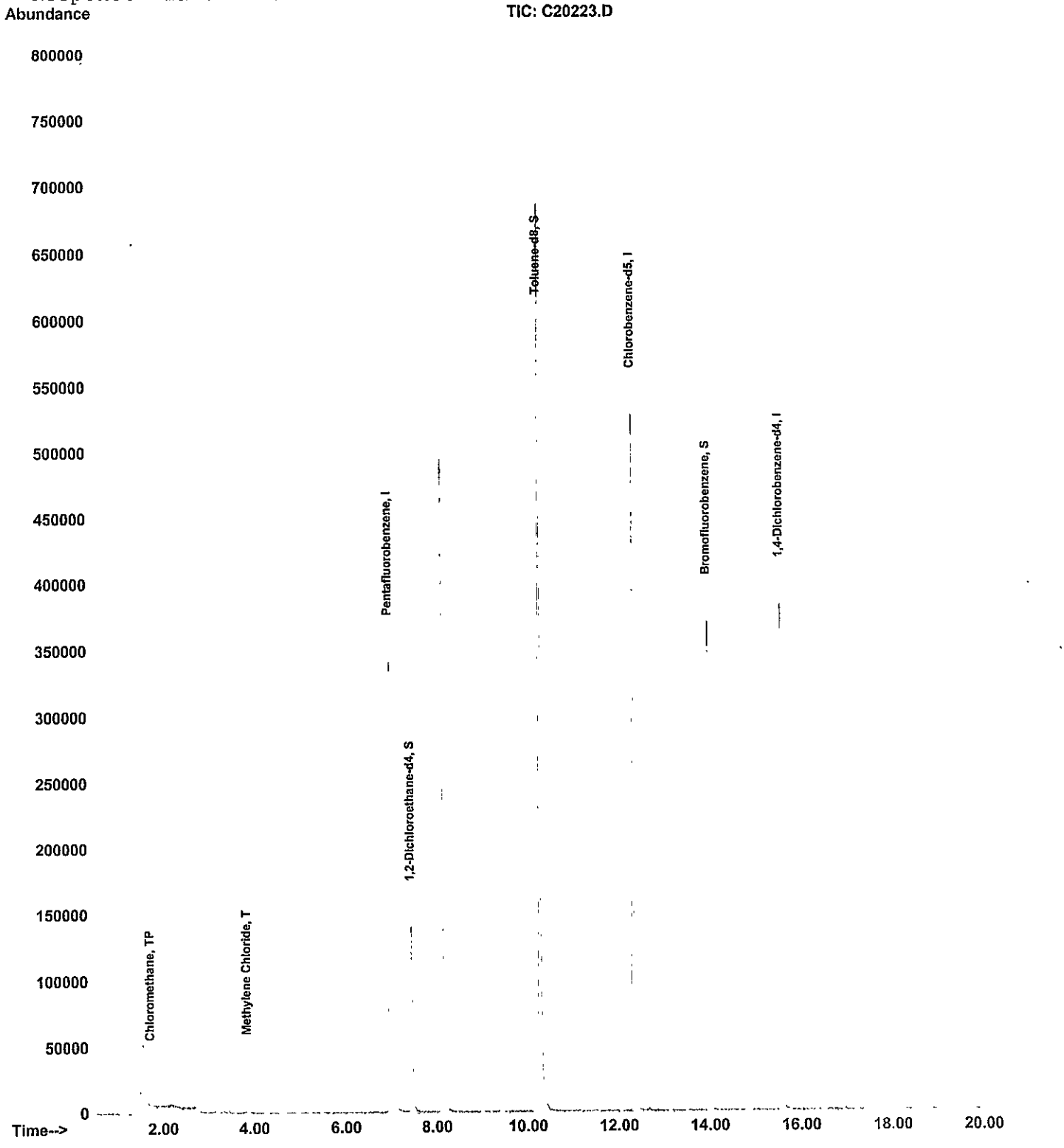
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	6.98	168	359867	10.00	ug\L	0.01
45) Chlorobenzene-d5	12.33	117	403044	10.00	ug\L	0.01
61) 1,4-Dichlorobenzene-d4	15.57	152	130069	10.00	ug\L	0.00
88) 1.4-Difluorobenzene	0.00	116	0m	10.00	ug\L	-8.12
System Monitoring Compounds						
32) 1,2-Dichloroethane-d4	7.45	65	159876	11.19	ug\L	0.01
Spiked Amount 10.000	Range 80 - 120		Recovery = 111.90%			
46) Toluene-d8	10.28	98	687061	11.61	ug\L	0.00
Spiked Amount 10.000	Range 87 - 104		Recovery = 116.0%#			
66) Bromofluorobenzene	13.97	95	180405	11.65	ug\L	0.00
Spiked Amount 10.000	Range 84 - 110		Recovery = 116.50%#			
Target Compounds						Qvalue
3) Chloromethane	1.75	50	16283	0.87	ug\L	98 0.875
16) Methylene Chloride	3.86	86	10317	1.13	ug\L	96 1.15

VRR
6-1-01

(#) = qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\053101\C20223.D Vial: 1
Acq On : 05/31/01 13:31 Operator: J''/VRR/DAT
Sample : AC14033 25ml DF=1 Inst : H·013
Misc : 27988/C05310125 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 1 8:40 2001 Quant Results File: 05310125.RES

Method : C:\HPCHEM\1\DATA\053101\05310125.M (RTE Integrate)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Wed May 30 13:53:00 2001
Response via : Initial Calibration



LSC Area Percent Report

Data File : C:\HPCHEM\1\DATA\053101\C20223.D Vial: 10
Acq On : 05/31/01 13:31 Operator: JP/[illegible]R/DAT
Sample : AC14033 25ml DF=1 Inst : HP0[illegible]
Misc : 27988/C05310125 Multiplr: 1.0[illegible]
MS Integration Params: LSCINT.P

Method : C:\HPCHEM\1\DATA\053101\05310125.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of larges Peak
Start Thrs: 0.02 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Signal : TIC

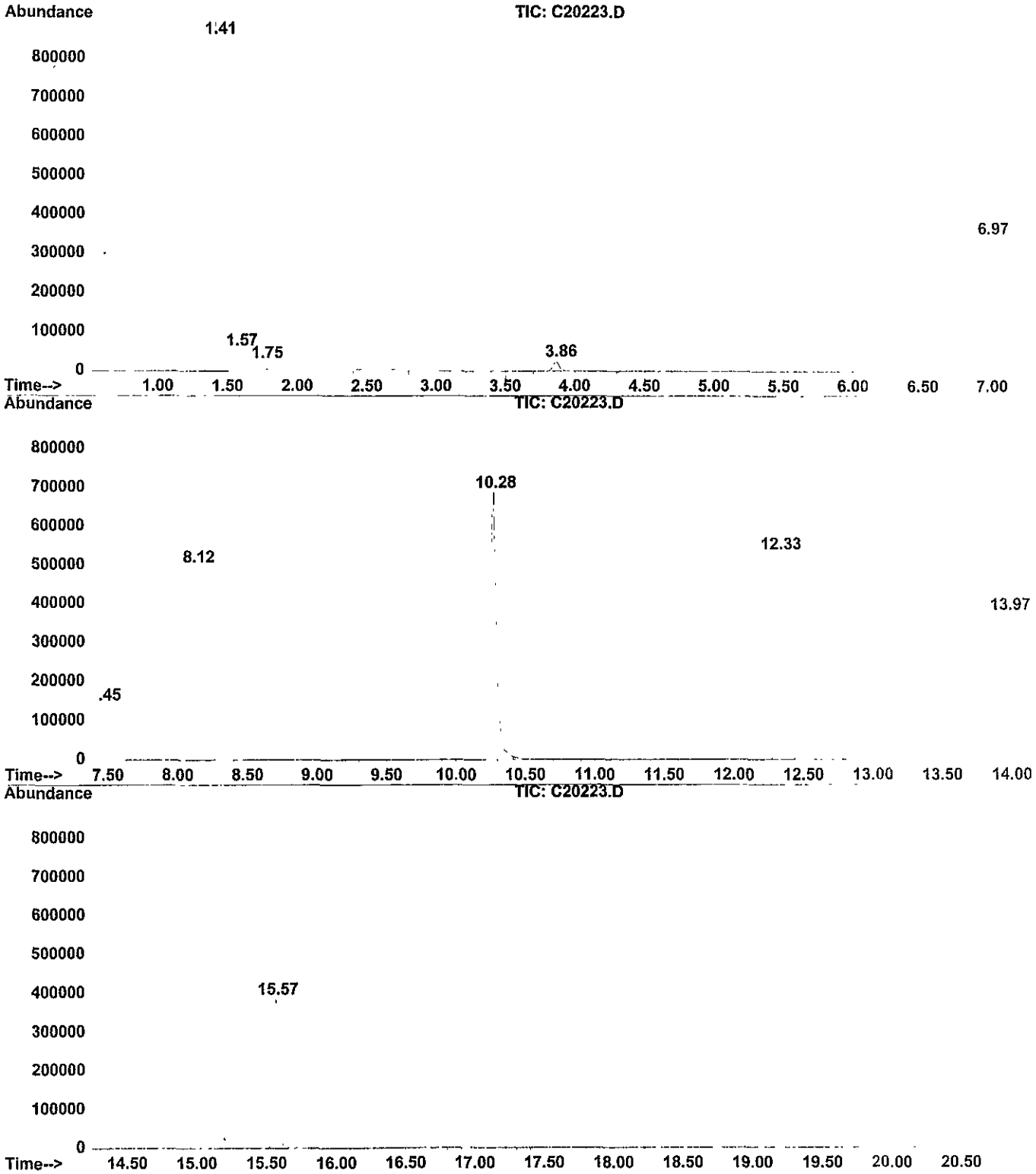
peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	peak area	peak % max.	% of total
1	1.410	131	148	163	rBV	894226	2752249	100.00%	25.130%
2	1.566	163	174	192	rVB	46652	225162	8.18%	2.056%
3	1.747	198	204	210	rVB2	17384	32066	1.17%	0.293%
4	3.864	548	556	566	rBV4	24403	66513	2.42%	0.607%
5	6.973	1061	1073	1085	rBV	341900	1075622	39.08%	9.821%
6	7.448	1139	1152	1174	rBV	140848	412117	14.97%	3.763%
7	8.122	1253	1264	1288	rBV	495459	1409143	51.20%	12.866%
8	10.275	1609	1622	1645	rBV	688379	1893497	68.80%	17.289%
9	12.326	1953	1963	1982	rBV	529401	1351014	49.09%	12.336%
10	13.974	2227	2237	2250	rBV	371760	864106	31.40%	7.890%
11	15.568	2492	2502	2517	rBV	384420	870546	31.63%	7.949%

Sum of corrected areas: 10952035

C20223.D 05310125.M Fri Jun 01 08:41:02 2001

LSC Report - Integrated Chromatogram

File : C:\HPCHEM\1\DATA\053101\C20223.D
Operator : JP/VRR/DAT
Acquired : 31 May 2001 13:31 using AcqMethod 05310125
Instrument : HP013
Sample Name: AC14033 25ml DF=1
Misc Info : 27988/C05310125
Vial Number: 10
Quant File :05310125.RES (RTE Integrator)



C20223.D 05310125.M Fri Jun 01 08:41:02 2001

Tentatively Identified Compound (LSC) summary

Operator ID: JP/VRR/DAT Date Acquired: 31 May 2001 13:31
Data File: C:\HPCHEM\1\DATA\053101\C20223.D
Name: AC14033 25ml DF=1
Misc: 27988/C05310125
Method: c:\hpchem\1\data\053101\05310125.M (RTE Integrator)
Title: 8260 CALIBRATION FOR 25ML WATER
Library Searched: C:\DATABASE\NIST98.L

TIC Top Hit name	RT	EstConc	Units	Area	IntStd	ISRT	ISArea	ISConc

C20223.D 05310125.M Fri Jun 01 08:41:02 2001

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\053101\C20224.D Vial: 1
Acq On : 05/31/01 13:56 Operator: JP/VRR/DAT
Sample : AC14034 25ml DF=1 Inst : HP013
Misc : 27988/C05310125 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 1 8:44 2001 Quant Results File: C05310125.RES

Quant Method : c:\hpchem\1\data\053101\05310125.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Wed May 30 13:53:00 2001
Response via : Initial Calibration
DataAcq Meth : 05310125

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Pentafluorobenzene	6.97	168	289311m	10.00 ug\L	0.00
45) Chlorobenzene-d5	12.33	117	330846	10.00 ug\L	0.00
61) 1,4-Dichlorobenzene-d4	15.56	152	105106	10.00 ug\L	0.00
88) 1.4-Difluorobenzene	0.00	116	0m	10.00 ug\L	-8.12
System Monitoring Compounds					
32) 1,2-Dichloroethane-d4	7.44	65	141225	12.29 ug\L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery =	122.90%#	
46) Toluene-d8	10.27	98	547004	11.26 ug\L	0.00
Spiked Amount 10.000	Range 87 - 104		Recovery =	112.60%#	
66) Bromofluorobenzene	13.97	95	144884	11.58 ug\L	0.00
Spiked Amount 10.000	Range 84 - 110		Recovery =	115.80%#	
Target Compounds					Qvalue
3) Chloromethane	1.75	50	15431	1.03 ug\L	1.0J
16) Methylene Chloride	3.87	86	8580	1.17 ug\L	1.2J
30) 1,4-Dioxane	0.00	88	0	~~22.89 ug\L~~	
39) Methylmethacrylate	0.00	69	0	~~1.15 ug\L~~	
44) 4-Methyl-2-Pentanone	0.00	85	0	~~1.66 ug\L~~	

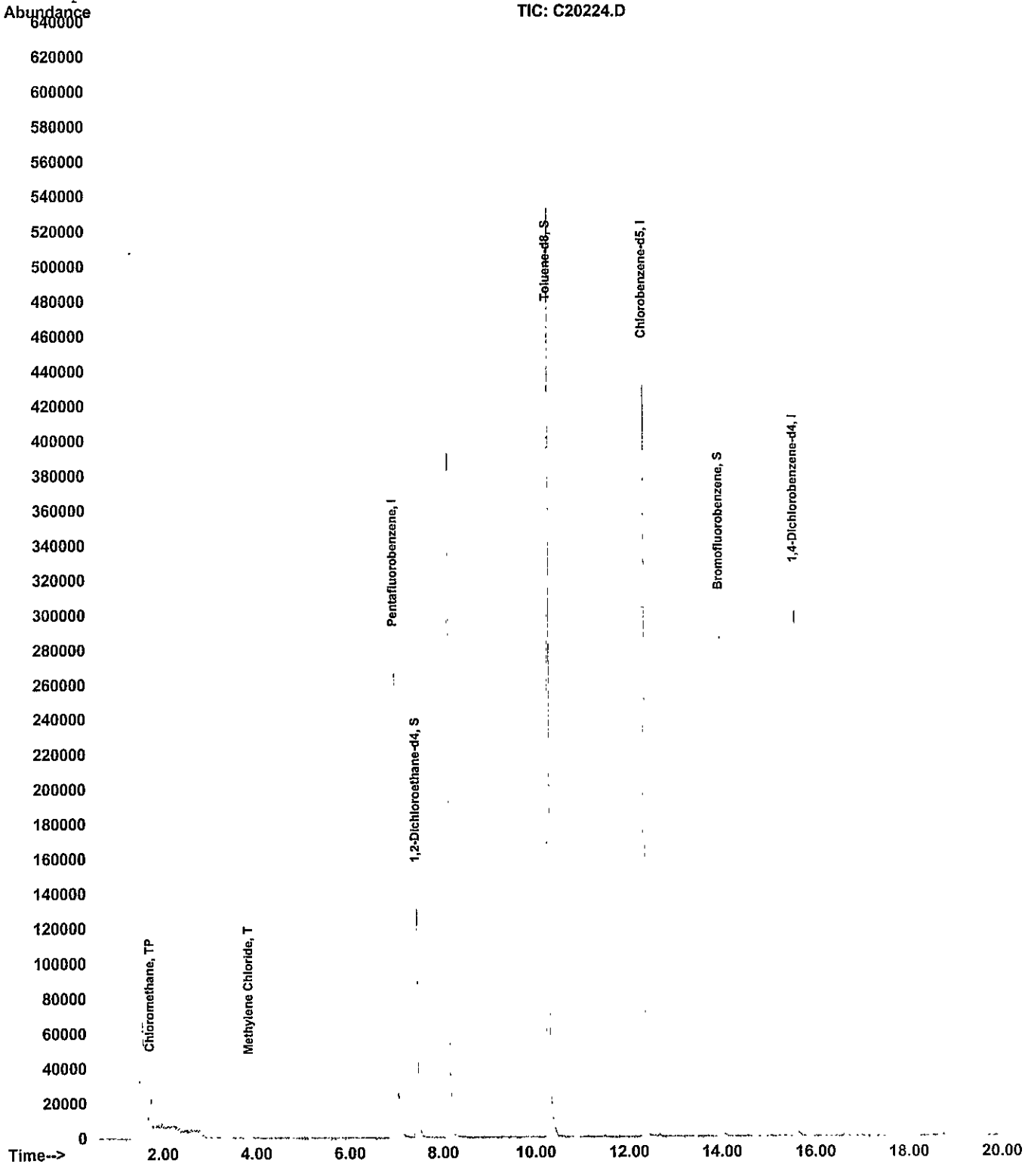
VRR
6-1-01

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\053101\C20224.D Vial: 1
Acq On : 05/31/01 13:56 Operator: JP/VRR/DAT
Sample : AC14034 25ml DF=1 Inst : HP013
Misc : 27988/C05310125 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 1 8:44 2001 Quant Results File: 05310125.RES

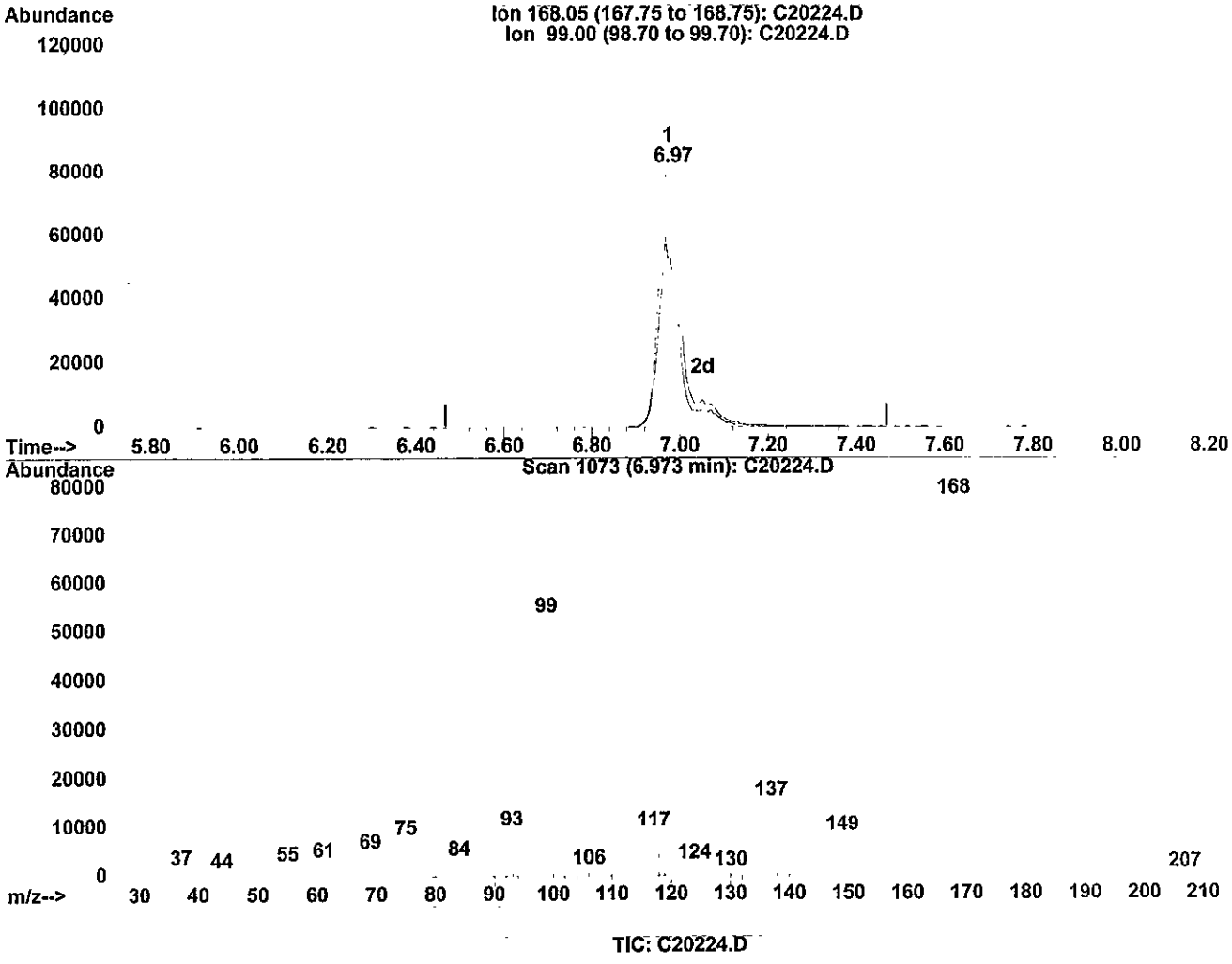
Method : C:\HPCHEM\1\DATA\053101\05310125.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Wed May 30 13:53:00 2001
Response via : Initial Calibration



Quantitation Report

Data File : C:\HPCHEM\1\DATA\053101\C20224.D Vial: 11
Acq On : 05/31/01 13:56 Operator: JP/VRR/DAT
Sample : AC14034 25ml DF=1 Inst : HP013
Misc : 27988/C05310125 Multiplr: 1.00
Quant Time: Jun 1 8:41 2001 Quant Results File: temp.res

Method : C:\HPCHEM\1\DATA\053101\05310125.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Wed May 30 13:53:00 2001
Response via : Multiple Level Calibration



TIC: C20224.D

(1) Pentafluorobenzene (I)

6.97min 10.00ug\L m

response 289311

Ion	Exp%	Act%
168.05	100	100
99.00	67.60	61.34
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\053101\C20234.D Vial: 5
Acq On : 05/31/01 18:13 Operator: JP/VRR/DAT
Sample : AC14034 25ml DF=1 Inst : HP013
Misc : 27988/C05310125 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 1 9:13 2001 Quant Results File: 05310125.RES

File Only c.e. 6/12/01

Quant Method : c:\hpchem\1\data\053101\05310125.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Wed May 30 13:53:00 2001
Response via : Initial Calibration
DataAcq Meth : 05310125

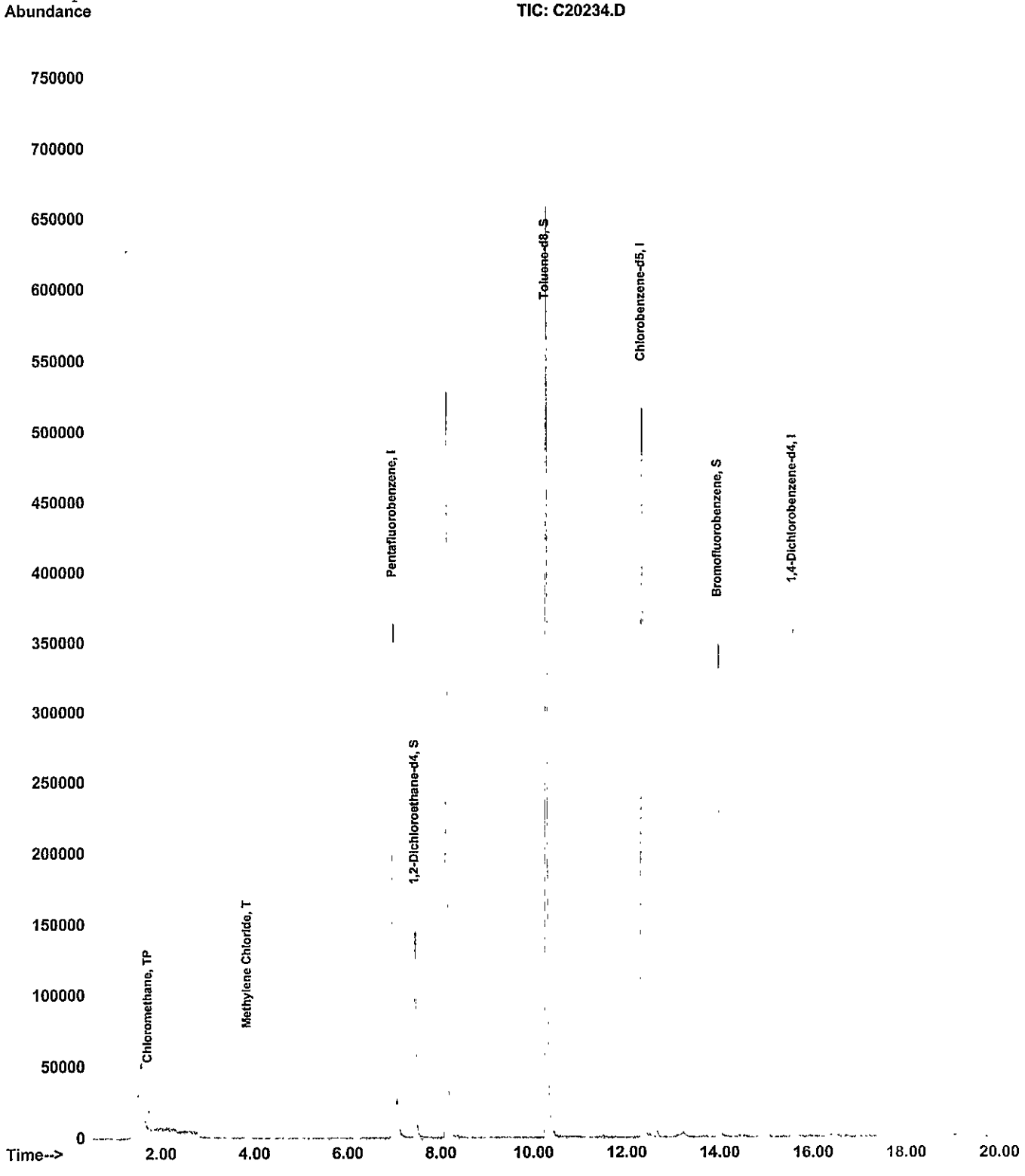
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	6.99	168	359316	10.00	ug\L	0.02
45) Chlorobenzene-d5	12.33	117	403111	10.00	ug\L	0.01
61) 1,4-Dichlorobenzene-d4	15.57	152	129761	10.00	ug\L	0.00
88) 1.4-Difluorobenzene	0.00	116	0m	10.00	ug\L	-8.12
System Monitoring Compounds						
32) 1,2-Dichloroethane-d4	7.46	65	156771	10.99	ug\L	0.02
Spiked Amount 10.000	Range 80 - 120		Recovery = 109.90%			
46) Toluene-d8	10.28	98	661005	11.17	ug\L	0.01
Spiked Amount 10.000	Range 87 - 104		Recovery = 111.70%#			
66) Bromofluorobenzene	13.97	95	175780	11.38	ug\L	0.00
Spiked Amount 10.000	Range 84 - 110		Recovery = 113.80%#			
Target Compounds						Qvalue
3) Chloromethane	1.74	50	14291	0.77	ug\L	98
16) Methylene Chloride	3.86	86	18563	2.04	ug\L	96

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\053101\C20234.D Vial: 5
Acq On : 05/31/01 18:13 Operator: JP/VRR/DAT
Sample : AC14034 25ml DF=1 Inst : HP013
Misc : 27988/C05310125 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 1 9:13 2001 Quant Results File: C05310125.RES

Method : C:\HPCHEM\1\DATA\053101\05310125.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Wed May 30 13:53:00 2001
Response via : Initial Calibration



LSC Area Percent Report

Data File : C:\HPCHEM\1\DATA\053101\C20224.D Vial: 11
Acq On : 05/31/01 13:56 Operator: JP/VER/DAT
Sample : AC14034 25ml DF=1 Inst : HP01
Misc : 27988/C05310125 Multiplr: 1.00
MS Integration Params: LSCINT.P

Method : C:\HPCHEM\1\DATA\053101\05310125.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.02 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Signal : TIC

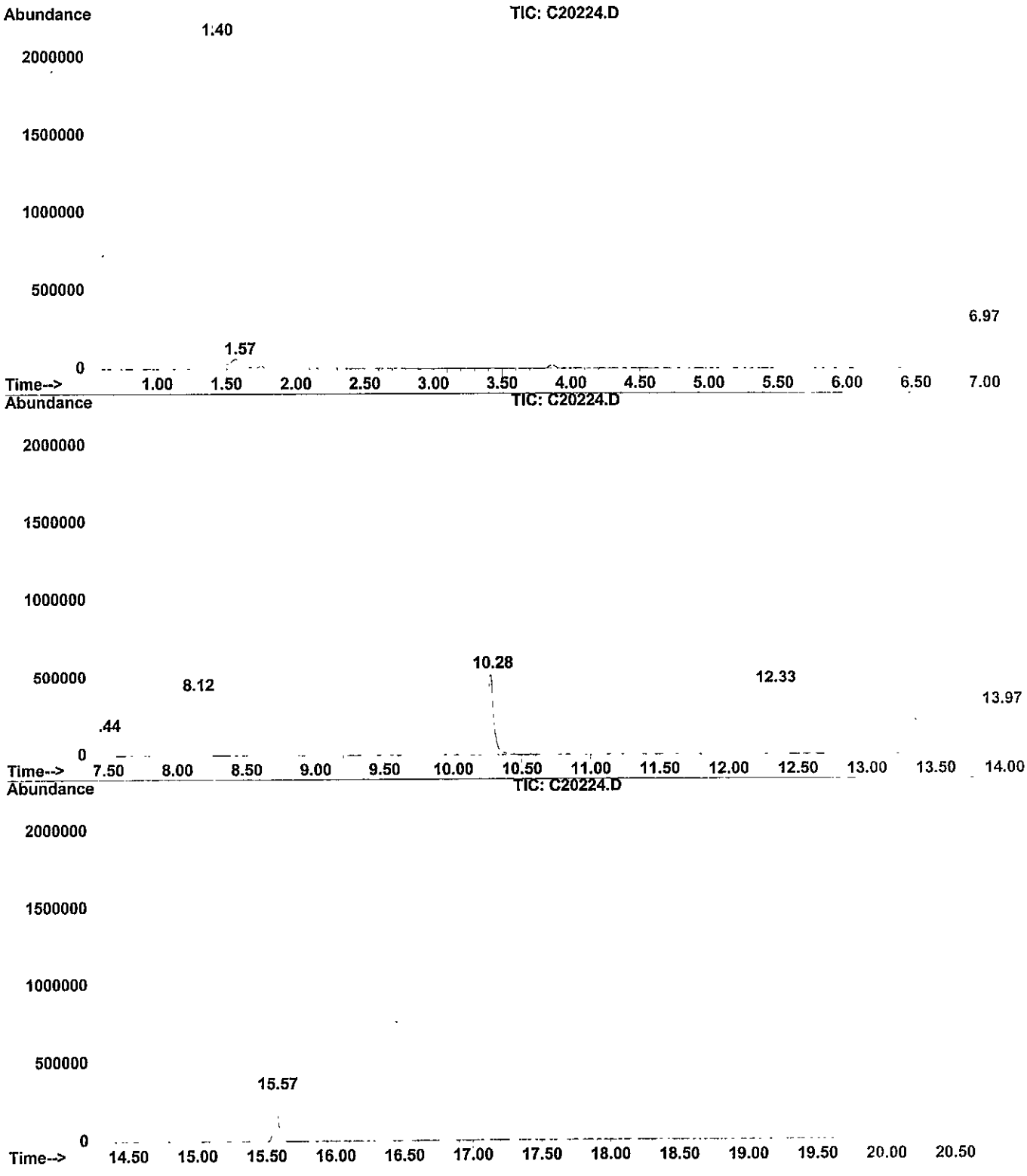
peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	peak area	peak % max.	% of total
1	1.404	133	147	163	rBV	2229551	7246382	100.00%	52.114%
2	1.567	165	174	193	rVB	58336	286668	3.96%	2.062%
3	6.967	1061	1072	1084	rBV2	266436	840828	11.60%	6.047%
4	7.443	1142	1151	1162	rBV	131032	351316	4.85%	2.527%
5	8.122	1252	1264	1287	rBV2	393471	1134579	15.66%	8.160%
6	10.275	1610	1622	1646	rBV	533959	1520768	20.99%	10.937%
7	12.326	1952	1963	1985	rBV	432302	1115965	15.40%	8.026%
8	13.968	2225	2236	2251	rBV	287343	700877	9.67%	5.041%
9	15.568	2492	2502	2515	rBV	303074	707467	9.76%	5.088%

Sum of corrected areas: 13904850

C20224.D 05310125.M Fri Jun 01 08:45:32 2001

LSC Report - Integrated Chromatogram

File : C:\HPCHEM\1\DATA\053101\C20224.D
Operator : JP/VRR/DAT
Acquired : 31 May 2001 13:56 using AcqMethod 05310125
Instrument : HP013
Sample Name: AC14034 25ml DF=1
Misc Info : 27988/C05310125
Vial Number: 11
Quant File :05310125.RES (RTE Integrator)



C20224.D 05310125.M Fri Jun 01 08:45:33 2001

Tentatively Identified Compound (LSC) summary

Operator ID: JP/VRR/DAT Date Acquired: 31 May 2001 13:56
Data File: C:\HPCHEM\1\DATA\053101\C20224.D
Name: AC14034 25ml DF=1
Misc: 27988/C05310125
Method: c:\hpchem\1\data\053101\05310125.M (RTE Integrator)
Title: 8260 CALIBRATION FOR 25ML WATER
Library Searched: C:\DATABASE\NIST98.L

TIC Top Hit name	RT	EstConc	Units	Area	IntStd	ISRT	ISArea	ISConc

C20224.D 05310125.M Fri Jun 01 08:45:33 2001

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\053101\C20225.D Vial: 1
Acq On : 05/31/01 14:22 Operator: [illegible]VRP'DAT
Sample : AC14035 25ml DF=1 Inst : H-013
Misc : 27988/C05310125 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 1 8:46 2001 Quant Results File: 0[illegible]310125.RES

Quant Method : c:\hpchem\1\data\053101\05310125.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Wed May 30 13:53:00 2001
Response via : Initial Calibration
DataAcq Meth : 05310125

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	6.98	168	318719	10.00	ug\L	0.01
45) Chlorobenzene-d5	12.33	117	397267	10.00	ug\L	0.01
61) 1,4-Dichlorobenzene-d4	15.57	152	125119	10.00	ug\L	0.00
88) 1.4-Difluorobenzene	0.00	116	0m	10.00	ug\L	-8.12
System Monitoring Compounds						
32) 1,2-Dichloroethane-d4	7.45	65	156229	12.34	ug\L	0.01
Spiked Amount 10.000	Range 80 - 120		Recovery = 123.40%#			
46) Toluene-d8	10.27	98	642460	11.01	ug\L	0.00
Spiked Amount 10.000	Range 87 - 104		Recovery = 110.[illegible]0%#			
66) Bromofluorobenzene	13.97	95	165266	11.09	ug\L	0.00
Spiked Amount 10.000	Range 84 - 110		Recovery = 110.90%#			
Target Compounds						Qvalue
3) Chloromethane	1.75	50	12864	0.78	ug\L	99 0.78J
16) Methylene Chloride	3.87	86	9181	1.14	ug\L	98 1.1J

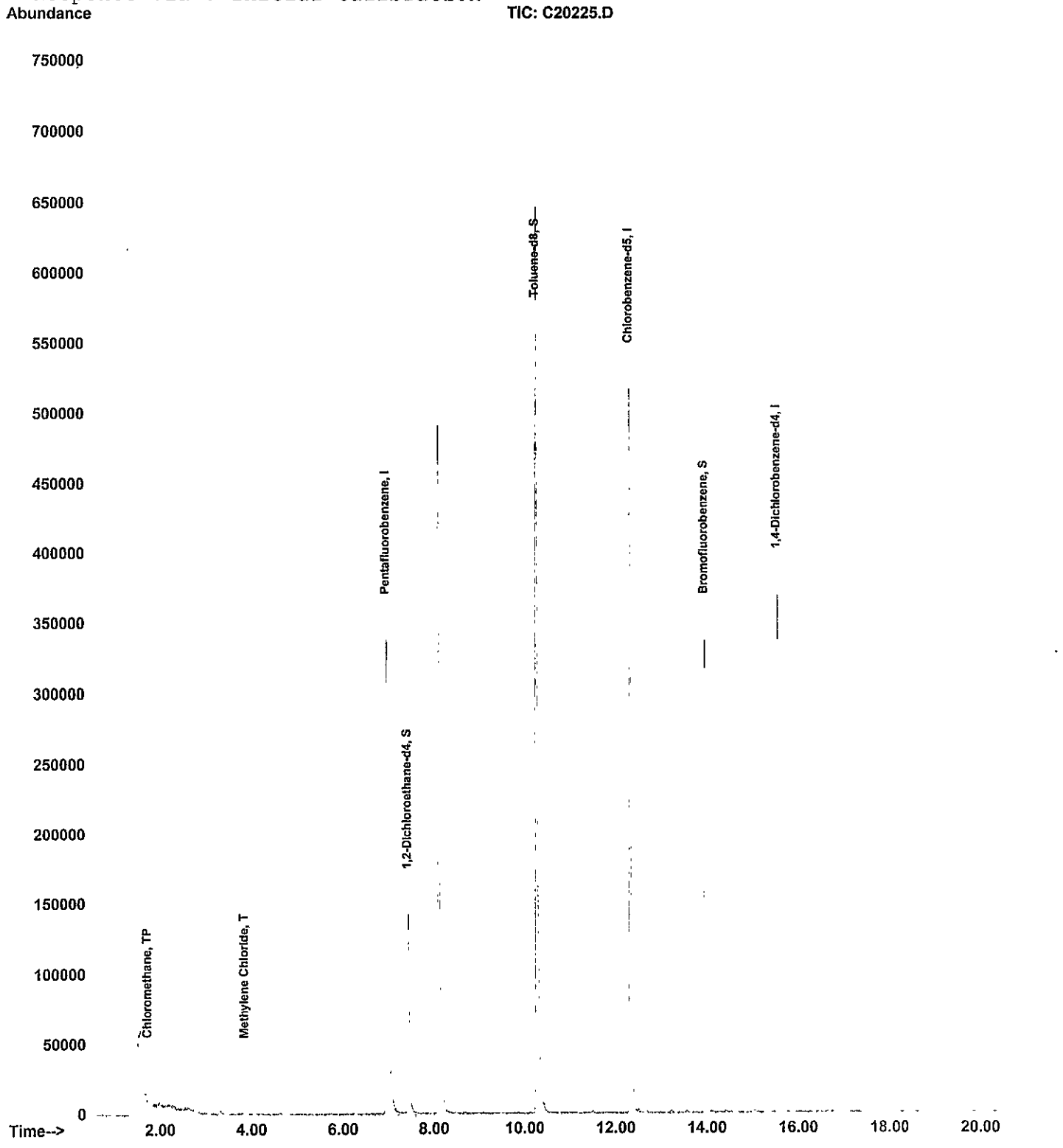
VRP
6.1.01

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\053101\C20225.D Vial: 1
Acq On : 05/31/01 14:22 Operator: JP/VRR/DAT
Sample : AC14035 25ml DF=1 Inst : HP013
Misc : 27988/C05310125 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 1 8:46 2001 Quant Results File: C05310125.RES

Method : C:\HPCHEM\1\DATA\053101\05310125.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Wed May 30 13:53:00 2001
Response via : Initial Calibration



LSC Area Percent Report

Data File : C:\HPCHEM\1\DATA\053101\C20225.D Vial: 12
Acq On : 05/31/01 14:22 Operator: JP/VNR/DAT
Sample : AC14035 25ml DF=1 Inst : HP01
Misc : 27988/C05310125 Multiplr: 1.00
MS Integration Params: LSCINT.P

Method : C:\HPCHEM\1\DATA\053101\05310125.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.02 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Signal : TIC

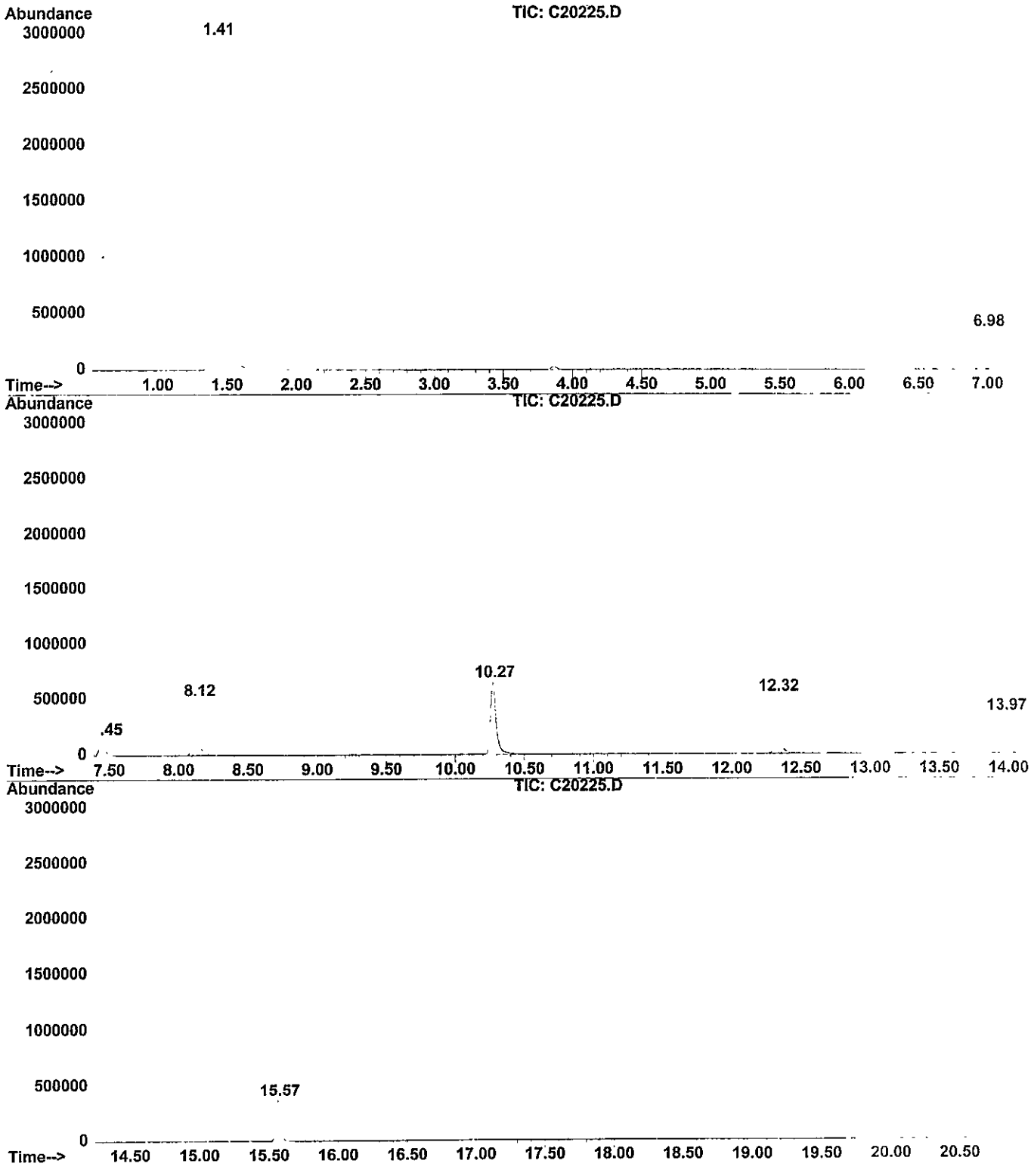
peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	peak area	peak % max.	% of total
1	1.408	127	147	162	rBV	3104585	9852461	100.00%	56.490%
2	6.978	1059	1073	1084	rBV2	338339	1039689	10.55%	5.961%
3	7.447	1141	1151	1168	rBV	141786	400437	4.06%	2.296%
4	8.120	1252	1263	1287	rBV	491700	1386544	14.07%	7.950%
5	10.273	1610	1621	1643	rBV	648057	1786877	18.14%	10.245%
6	12.324	1953	1962	1982	rBV	517969	1333997	13.54%	7.649%
7	13.972	2226	2236	2250	rBV	337659	798004	8.10%	4.575%
8	15.566	2490	2501	2512	rBV	370633	842937	8.56%	4.833%

Sum of corrected areas: 17440946

C20225.D 05310125.M Fri Jun 01 08:47:24 2001

LSC Report - Integrated Chromatogram

File : C:\HPCHEM\1\DATA\053101\C20225.D
Operator : JP/VRR/DAT
Acquired : 31 May 2001 14:22 using AcqMethod 05310125
Instrument : HP013
Sample Name: AC14035 25ml DF=1
Misc Info : 27988/C05310125
Vial Number: 12
Quant File :05310125.RES (RTE Integrator)



C20225.D 05310125.M Fri Jun 01 08:47:24 2001

Tentatively Identified Compound (LSC) summary

Operator ID: JP/VRR/DAT Date Acquired: 31 May 2001 14:22
Data File: C:\HPCHEM\1\DATA\053101\C20225.D
Name: AC14035 25ml DF=1
Misc: 27988/C05310125
Method: c:\hpchem\1\data\053101\05310125.M (RTE Integrator)
Title: 8260 CALIBRATION FOR 25ML WATER
Library Searched: C:\DATABASE\NIST98.L

TIC Top Hit name	RT	EstConc	Units	Area	IntStd	ISRT	ISArea	ISConc

C20225.D 05310125.M Fri Jun 01 08:47:25 2001

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\053101\C20226.D Vial: 1
Acq On : 05/31/01 14:48 Operator: JP/VRR/DAT
Sample : AC14036 25ml DF=1 Inst : HP013
Misc : 27988/C05310125 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 1 8:49 2001 Quant Results File: C05310125.RES

Quant Method : c:\hpchem\1\data\053101\05310125.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Wed May 30 13:53:00 2001
Response via : Initial Calibration
DataAcq Meth : 05310125

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	6.98	168	304167m	10.00	ug\L	0.01
45) Chlorobenzene-d5	12.33	117	362934	10.00	ug\L	0.01
61) 1,4-Dichlorobenzene-d4	15.57	152	112537	10.00	ug\L	0.00
88) 1.4-Difluorobenzene	0.00	116	0m	10.00	ug\L	-8.12
System Monitoring Compounds						
32) 1,2-Dichloroethane-d4	7.45	65	148742	12.32	ug\L	0.01
Spiked Amount 10.000	Range 80 - 120		Recovery = 123.20%#			
46) Toluene-d8	10.27	98	606778	11.39	ug\L	0.00
Spiked Amount 10.000	Range 87 - 104		Recovery = 113.90%#			
66) Bromofluorobenzene	13.97	95	155445	11.60	ug\L	0.00
Spiked Amount 10.000	Range 84 - 110		Recovery = 116.00%#			
Target Compounds						Qvalue
3) Chloromethane	1.75	50	16451	1.05	ug\L	1.1J
11) Acetone	3.32	58	1297	1.32	ug\L #	1.1J
16) Methylene Chloride	3.87	86	8158	1.06	ug\L	

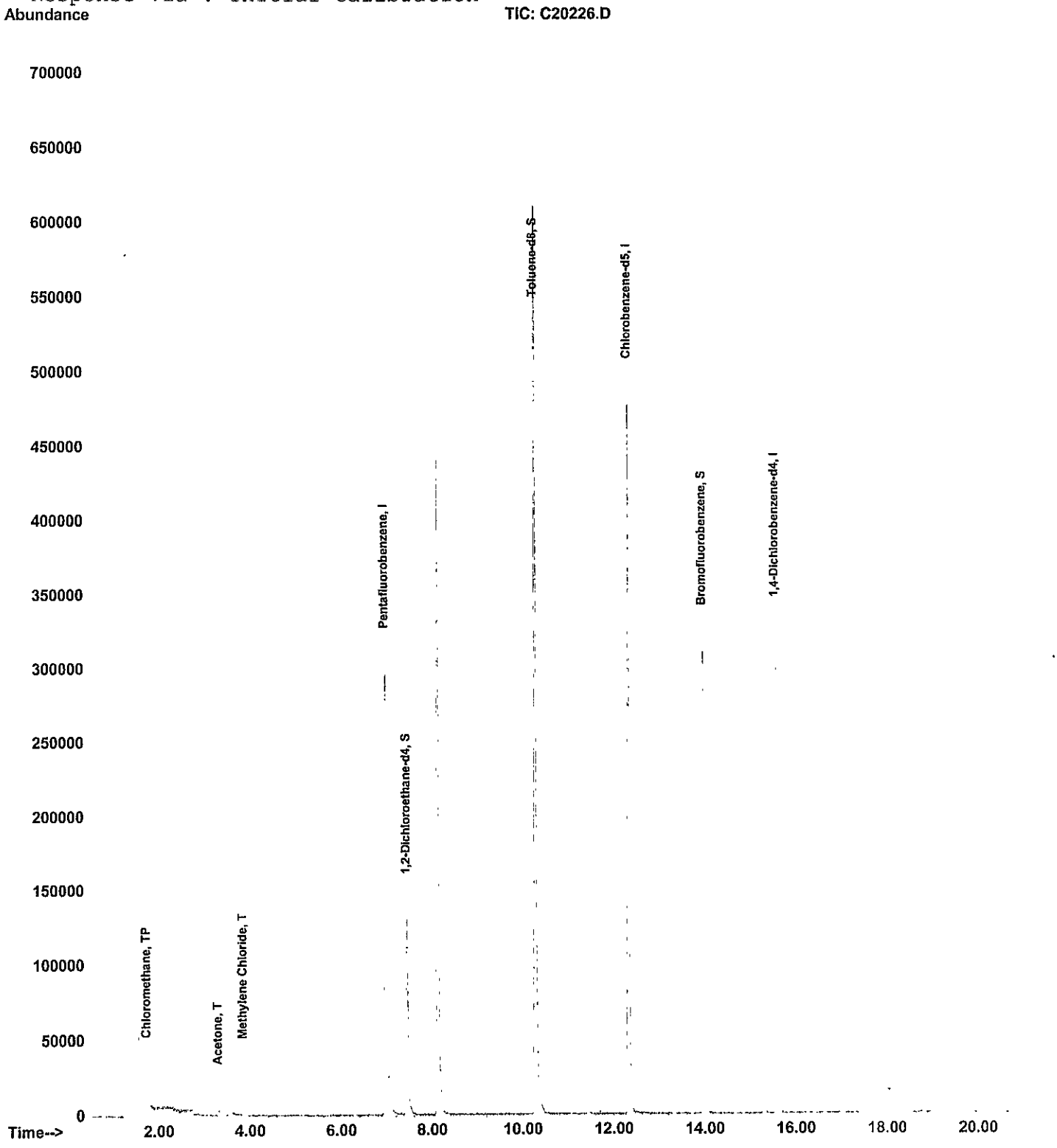
VRR
6-1-01

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\053101\C20226.D Vial: 1
Acq On : 05/31/01 14:48 Operator: JP/VRR/DAT
Sample : AC14036 25ml DF=1 Inst : HP013
Misc : 27988/C05310125 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 1 8:49 2001 Quant Results File: 05310125.RES

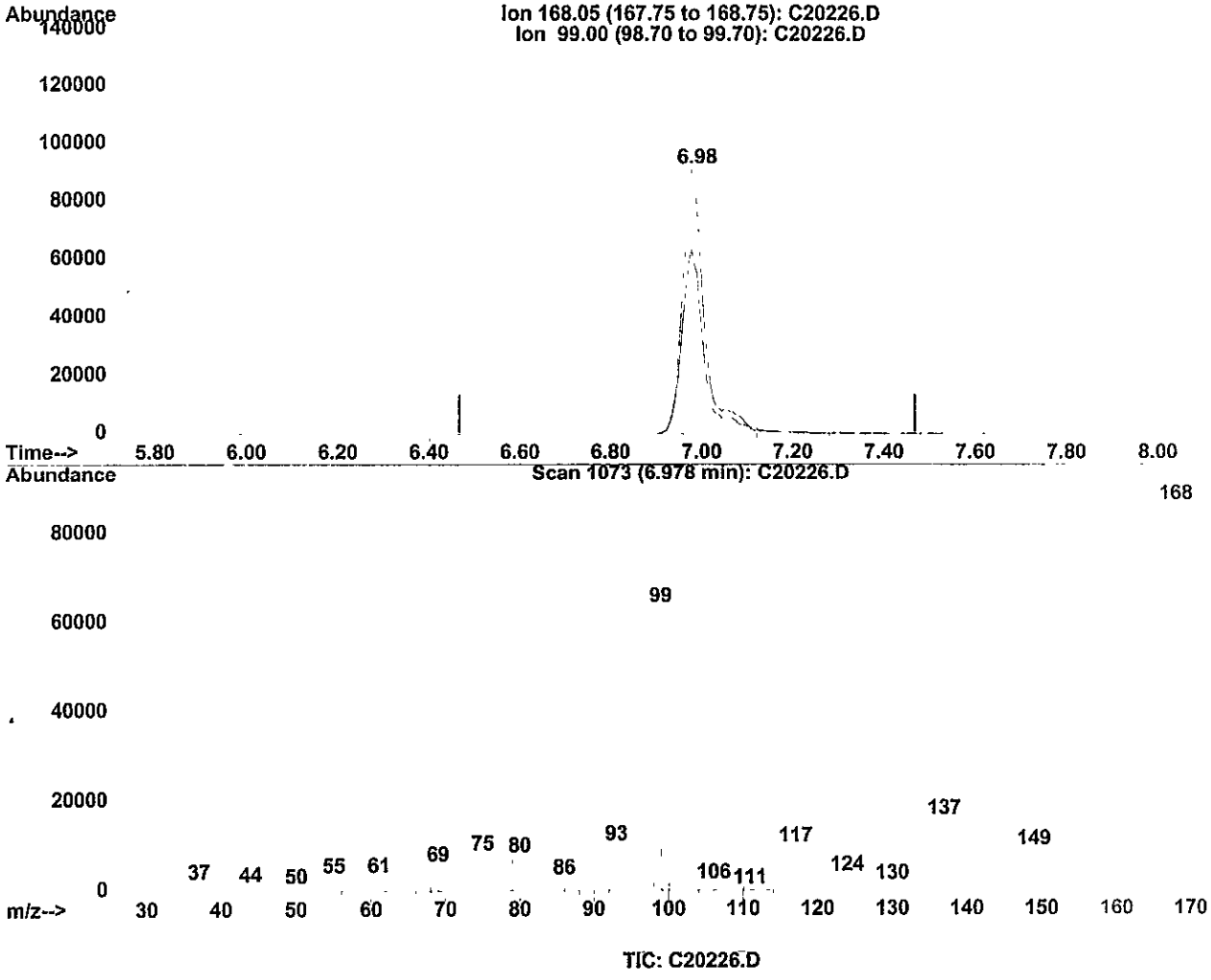
Method : C:\HPCHEM\1\DATA\053101\05310125.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Wed May 30 13:53:00 2001
Response via : Initial Calibration



Quantitation Report

Data File : C:\HPCHEM\1\DATA\053101\C20226.D Vial: 13
Acq On : 05/31/01 14:48 Operator: JP/VRR/DAT
Sample : AC14036 25ml DF=1 Inst : HP013
Misc : 27988/C05310125 Multiplr: 1.00
Quant Time: Jun 1 7:25 2001 Quant Results File: temp.res

Method : C:\HPCHEM\1\DATA\053101\05310125.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Wed May 30 13:53:00 2001
Response via : Multiple Level Calibration



TIC: C20226.D

(1) Pentafluorobenzene (I)

6.98min 10.00ug\L m

response 304167

Ion	Exp%	Act%
168.05	100	100
99.00	67.60	65.34
0.00	0.00	0.00
0.00	0.00	0.00

LSC Area Percent Report

Data File : C:\HPCHEM\1\DATA\053101\C20226.D Vial: 13
Acq On : 05/31/01 14:48 Operator: JP/VRR/DAT
Sample : AC14036 25ml DF=1 Inst : HP01
Misc : 27988/C05310125 Multiplr: 1.00
MS Integration Params: LSCINT.P

Method : C:\HPCHEM\1\DATA\053101\05310125.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.02 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Signal : TIC

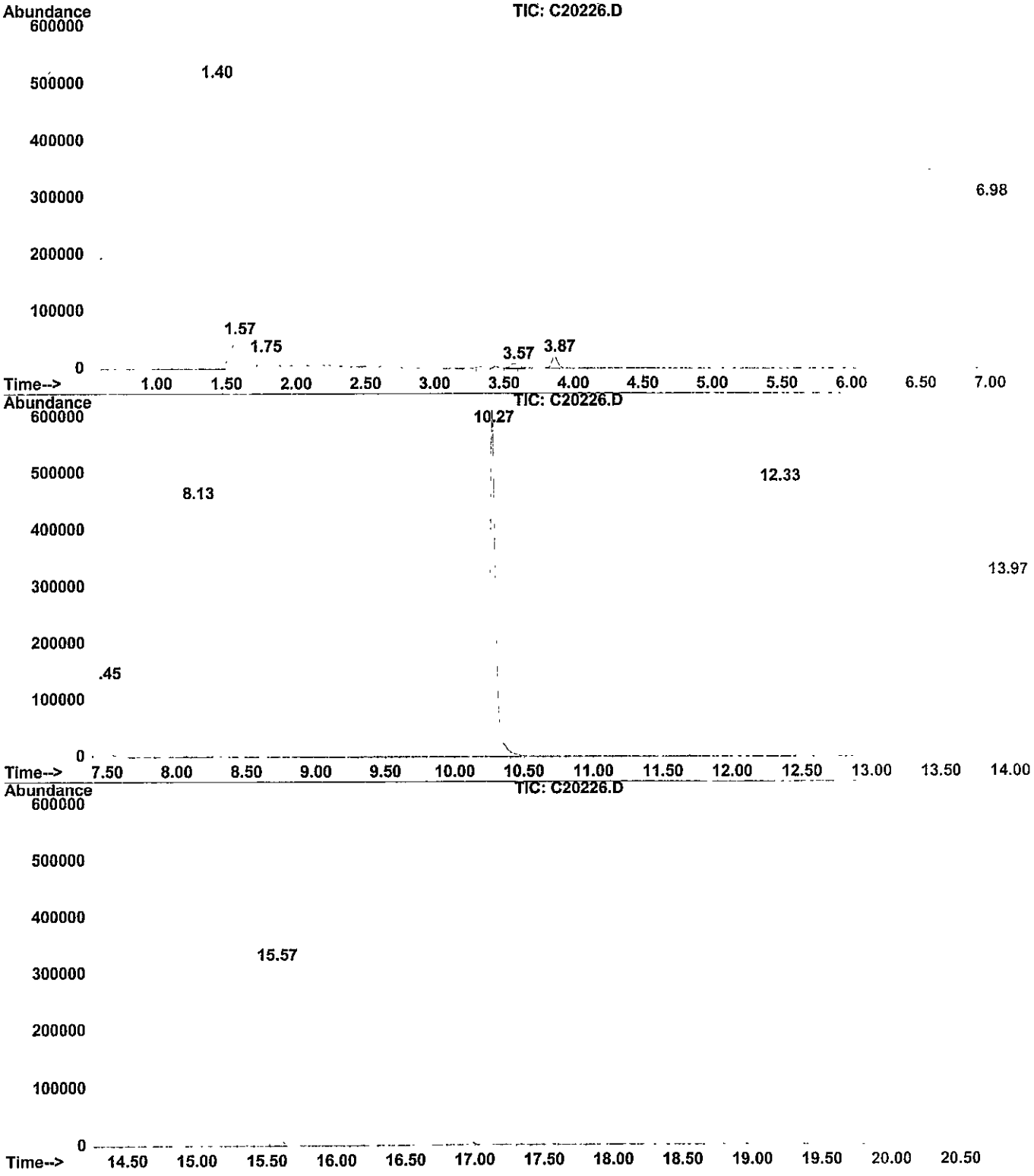
peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	peak area	peak % max.	% of total
1	1.403	129	146	161	rBV	504519	1615461	95.92%	18.087%
2	1.565	161	173	191	rVB	45379	215578	12.80%	2.414%
3	1.751	198	204	209	rVB2	17264	30023	1.78%	0.336%
4	3.574	497	507	520	rBV4	8047	32968	1.96%	0.369%
5	3.868	545	556	565	rBV4	20296	59264	3.52%	0.664%
6	6.978	1059	1073	1084	rBV	296560	918135	54.51%	10.280%
7	7.453	1140	1152	1173	rBV3	130330	386643	22.96%	4.329%
8	8.127	1252	1264	1286	rBV	447292	1256698	74.61%	14.070%
9	10.274	1612	1621	1655	rBV	611118	1684254	100.00%	18.857%
10	12.330	1951	1963	1984	rBV	477905	1232286	73.17%	13.797%
11	13.972	2226	2236	2253	rBV	311156	750967	44.59%	8.408%
12	15.566	2492	2501	2514	rBV	316620	749418	44.50%	8.391%

Sum of corrected areas: 8931695

C20226.D 05310125.M Fri Jun 01 08:50:22 2001

LSC Report - Integrated Chromatogram

File : C:\HPCHEM\1\DATA\053101\C20226.D
Operator : JP/VRR/DAT
Acquired : 31 May 2001 14:48 using AcqMethod 05310125
Instrument : HP013
Sample Name: AC14036 25ml DF=1
Misc Info : 27988/C05310125
Vial Number: 13
Quant File :05310125.RES (RTE Integrator)



C20226.D 05310125.M Fri Jun 01 08:50:23 2001

Tentatively Identified Compound (LSC) summary

Operator ID: JP/VRR/DAT Date Acquired: 31 May 2001 14:48
Data File: C:\HPCHEM\1\DATA\053101\C20226.D
Name: AC14036 25ml DF=1
Misc: 27988/C05310125
Method: c:\hpchem\1\data\053101\05310125.M (RTE Integrator)
Title: 8260 CALIBRATION FOR 25ML WATER
Library Searched: C:\DATABASE\NIST98.L

TIC Top Hit name	RT	EstConc	Units	Area	IntStd	ISRT	ISArea	ISConc

C20226.D 05310125.M Fri Jun 01 08:50:23 2001

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\053101\C20235.D Vial: 6
Acq On : 05/31/01 18:39 Operator: JP/VRR/DAT
Sample : AC14036 25ml DF=1 Inst : HP013
Misc : 27988/C05310125 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 1 9:15 2001 Quant Results File: C05310125.RES

Quant Method : c:\hpchem\1\data\053101\05310125.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Wed May 30 13:53:00 2001
Response via : Initial Calibration
DataAcq Meth : 05310125

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	6.98	168	332145	10.00	ug\L	0.01
45) Chlorobenzene-d5	12.33	117	378441	10.00	ug\L	0.01
61) 1,4-Dichlorobenzene-d4	15.57	152	119375	10.00	ug\L	0.00
88) 1.4-Difluorobenzene	0.00	116	0m	10.00	ug\L	-8.12
System Monitoring Compounds						
32) 1,2-Dichloroethane-d4	7.45	65	166077	12.59	ug\L	0.02
Spiked Amount 10.000	Range 80 - 120		Recovery = 125.90%#			
46) Toluene-d8	10.28	98	637570	11.47	ug\L	0.01
Spiked Amount 10.000	Range 87 - 104		Recovery = 114.70%#			
66) Bromofluorobenzene	13.97	95	172023	12.10	ug\L	0.00
Spiked Amount 10.000	Range 84 - 110		Recovery = 121.00%#j			
Target Compounds						Qvalue
3) Chloromethane	1.75	50	21297	1.24	ug\L	100
16) Methylene Chloride	3.87	86	8613	1.02	ug\L	97

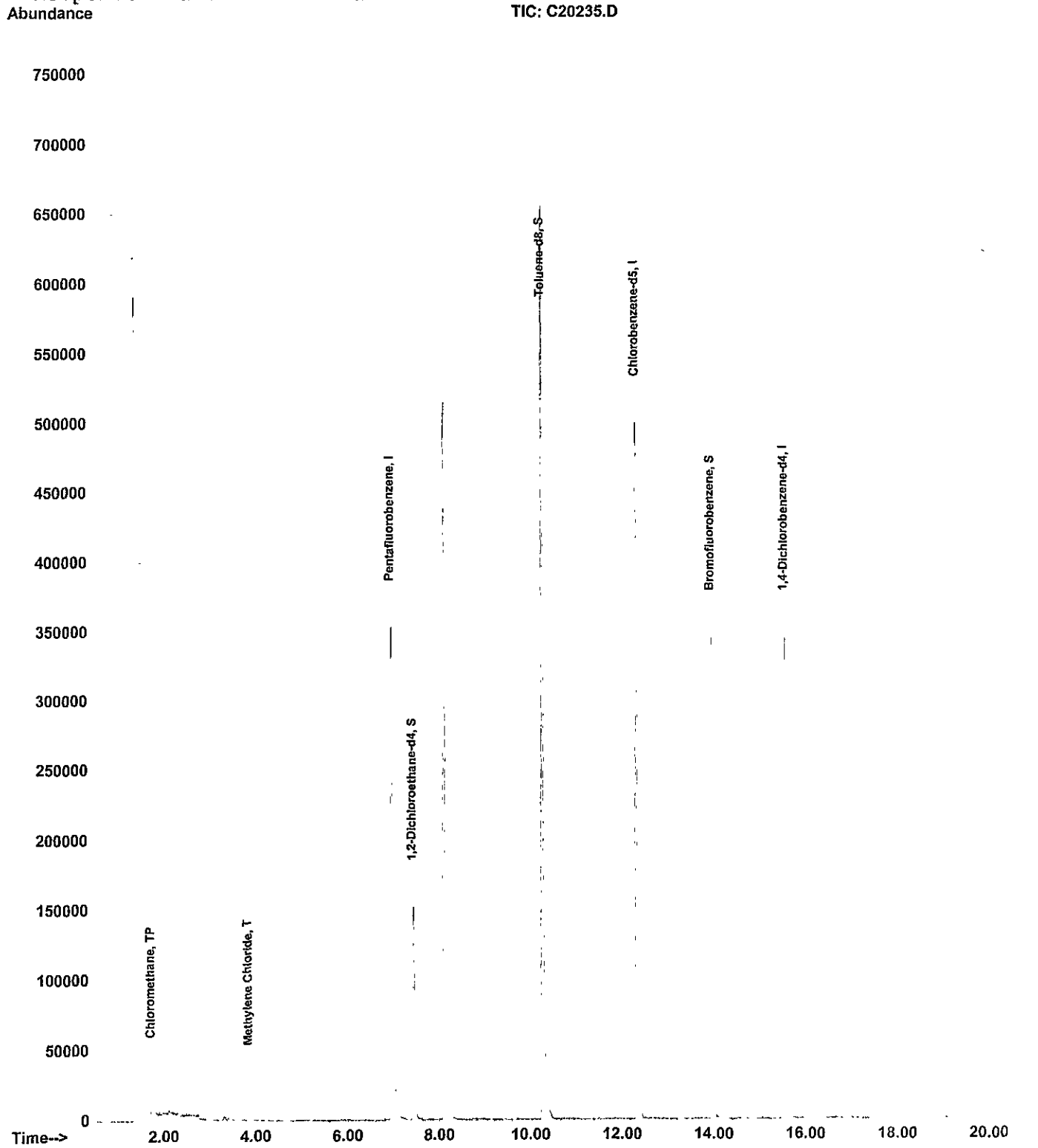
5s failed
VRR 6.1.01

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\053101\C20235.D Vial: 6
Acq On : 05/31/01 18:39 Operator: JP/VRR/DAT
Sample : AC14036 25ml DF=1 Inst : HP013
Misc : 27988/C05310125 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 1 9:15 2001 Quant Results File: 05310125.RES

Method : C:\HPCHEM\1\DATA\053101\05310125.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Wed May 30 13:53:00 2001
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\053101\C20227.D Vial: 1
Acq On : 05/31/01 15:13 Operator: JP/VRR/DAT
Sample : AC14037 25ml DF=1 Inst : HP013
Misc : 27988/C05310125 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 1 8:55 2001 Quant Results File: C05310125.RES

Quant Method : c:\hpchem\1\data\053101\05310125.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Wed May 30 13:53:00 2001
Response via : Initial Calibration
DataAcq Meth : 05310125

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	6.98	168	335594	10.00	ug\L	0.01
45) Chlorobenzene-d5	12.33	117	425425	10.00	ug\L	0.00
61) 1,4-Dichlorobenzene-d4	15.57	152	179679	10.00	ug\L	0.00
88) 1.4-Difluorobenzene	0.00	116	0m	10.00	ug\L	-8.12
System Monitoring Compounds						
32) 1,2-Dichloroethane-d4	7.46	65	148335	11.13	ug\L	0.02
Spiked Amount 10.000	Range 80 - 120		Recovery = 111.30%			
46) Toluene-d8	10.28	98	658494	10.54	ug\L	0.00
Spiked Amount 10.000	Range 87 - 104		Recovery = 105.40%#			
66) Bromofluorobenzene	13.97	95	216643	10.13	ug\L	0.00
Spiked Amount 10.000	Range 84 - 110		Recovery = 101.30%			
Target Compounds						Qvalue
16) Methylene Chloride	3.87	86	8774	1.03	ug\I	961.0J
58) Ethylbenzene	12.50	91	1927047	23.42	ug\L	9923
59) total-Xylene	12.66	106	775297	28.91	ug\L	10029
63) Isopropylbenzene	13.72	105	856107	11.07	ug\L	9911
70) n-Propylbenzene	14.29	91	993179	10.55	ug\L	9911
73) 1,3,5-Trimethylbenzene	14.54	105	1005611	14.33	ug\L	9914
76) 1,2,4-Trimethylbenzene	15.06	105	4090257	62.22	ug\L	99
77) sec-Butylbenzene	15.29	105	455849	5.76	ug\L	985.8J
79) Isopropyltoluene	15.48	119	258392	4.16	ug\L	984.2J
82) n-Butylbenzene	16.02	91	369528	6.35	ug\L #	1064
86) Naphthalene	19.05	128	516336	37.25	ug\L	10037

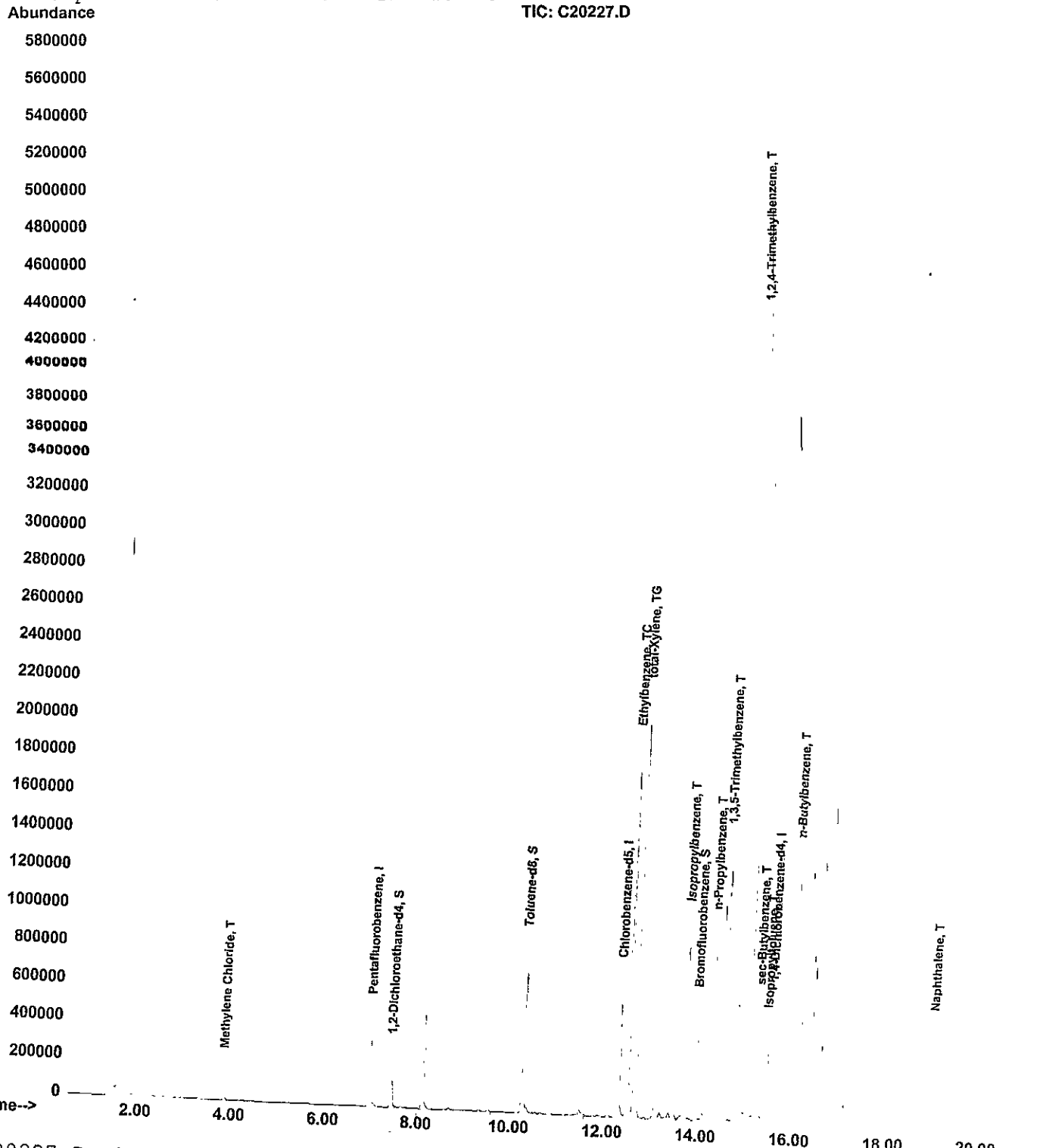
VAL
6-1-01

NDIL 1:5

(#) = qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\053101\C20227.D Vial: 1
Acq On : 05/31/01 15:13 Operator: JP/VRR/DAT
Sample : AC14037 25ml DF=1 Inst : HP013
Misc : 27988/C05310125 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 1 8:55 2001 Quant Results File: 05310125.RES

Method : C:\HPCHEM\1\DATA\053101\05310125.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Wed May 30 13:53:00 2001
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\053101\C20233.D Vial: 4
Acq On : 05/31/01 17:47 Operator: JW/VRR/DAT
Sample : AC14037 5ml DF=5 Inst : HP013
Misc : 27988/C05310125 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 1 9:12 2001 Quant Results File: C05310125.RES

Quant Method : c:\hpchem\1\data\053101\05310125.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Wed May 30 13:53:00 2001
Response via : Initial Calibration
DataAcq Meth : 05310125

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Pentafluorobenzene	6.98	168	381765	10.00	ug\L		0.01
45) Chlorobenzene-d5	12.33	117	408041	10.00	ug\L		0.00
61) 1,4-Dichlorobenzene-d4	15.57	152	153274	10.00	ug\L		0.00
88) 1.4-Difluorobenzene	0.00	116	0m	10.00	ug\L		-8.12
System Monitoring Compounds							
32) 1,2-Dichloroethane-d4	7.46	65	159116	10.50	ug\L		0.02
Spiked Amount 10.000	Range 80 - 120		Recovery = 105.00%				
46) Toluene-d8	10.28	98	704603	11.76	ug\L		0.00
Spiked Amount 10.000	Range 87 - 104		Recovery = 117.60%#				
66) Bromofluorobenzene	13.98	95	187256	10.26	ug\L		0.00
Spiked Amount 10.000	Range 84 - 110		Recovery = 102.60%				
Target Compounds							Qvalue
16) Methylene Chloride	3.87	86	17923	1.85	ug\L		96
58) Ethylbenzene	12.50	91	336762	4.27	ug\L		98
59) total-Xylene	12.67	106	133239	5.18	ug\L		100
63) Isopropylbenzene	13.73	105	124770	1.89	ug\L		99
70) n-Propylbenzene	14.29	91	143168	1.78	ug\L		98
73) 1,3,5-Trimethylbenzene	14.54	105	152301	2.54	ug\L		100
76) 1,2,4-Trimethylbenzene	15.06	105	678615	12.10	ug\L		97
77) sec-Butylbenzene	15.29	105	67651	1.00	ug\L		99
79) Isopropyltoluene	15.49	119	35967	0.68	ug\L		98
82) n-Butylbenzene	16.04	91	56095	1.13	ug\L	#	52
86) Naphthalene	19.06	128	67631	8.24	ug\L		100

JW 6.1.01
9.3
4.3 21
26
9.5 J
8.9 J
13
61
5.0 J
3.4 J
5.7 J
41

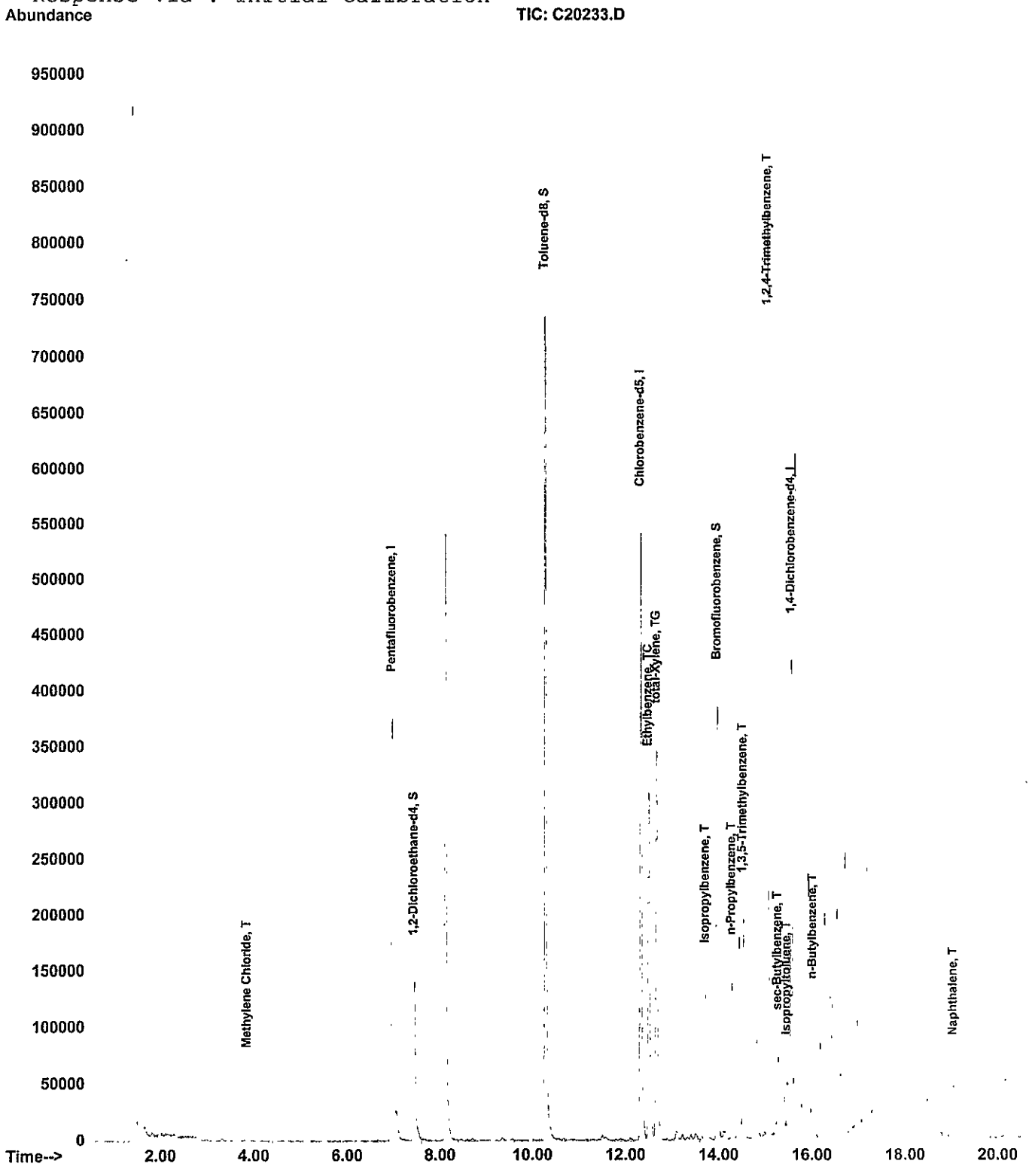
VRR
6.1.01

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\053101\C20233.D Vial: 4
Acq On : 05/31/01 17:47 Operator: JP/VRR/DAT
Sample : AC14037 5ml DF=5 Inst : HP013
Misc : 27988/C05310125 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 1 9:12 2001 Quant Results File: C05310125.RES

Method : C:\HPCHEM\1\DATA\053101\05310125.M (RTE Integrate
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Wed May 30 13:53:00 2001
Response via : Initial Calibration



LSC Area Percent Report

Data File : C:\HPCHEM\1\DATA\053101\C20227.D Vial: 14
Acq On : 05/31/01 15:13 Operator: JP/VRR/DAT
Sample : AC14037 25ml DF=1 Inst : HP01
Misc : 27988/C05310125 Multiplr: 1.00
MS Integration Params: LSCINT.P

Method : C:\HPCHEM\1\DATA\053101\05310125.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of larges Peak
Start Thrs: 0.02 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Signal : TIC

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	peak area	peak % max.	% of total
1	1.406	131	147	164	rBV	2948421	9589169	82.71%	8.169%
2	6.981	1061	1074	1098	rBV	342732	1074819	9.27%	0.916%
3	7.451	1142	1152	1170	rBV	135715	415515	3.58%	0.354%
4	8.124	1253	1264	1289	rBV2	493535	1327809	11.45%	1.131%
5	10.277	1612	1622	1634	rBV	737020	1805387	15.57%	1.538%
6	12.328	1952	1963	1983	rBV	593801	1514883	13.07%	1.291%
7	12.502	1983	1992	2009	rVV	1825552	4622967	39.87%	3.939%
8	12.665	2009	2019	2039	rVB	2079193	5378181	46.39%	4.582%
9	13.098	2072	2091	2102	rBV2	63653	217740	1.88%	0.186%
10	13.507	2153	2159	2173	rVB8	31432	117410	1.01%	0.100%
11	13.723	2186	2195	2209	rVB	902583	2222501	19.17%	1.893%
12	13.970	2228	2236	2248	rBV	456896	1129659	9.74%	0.962%
13	14.126	2254	2262	2275	rVB9	34561	120874	1.04%	0.103%
14	14.295	2281	2290	2301	rBV	863562	2092861	18.05%	1.783%
15	14.451	2301	2316	2323	rVV	1132436	3110413	26.83%	2.650%
16	14.535	2323	2330	2343	rVB	1313964	2972904	25.64%	2.533%
17	14.824	2368	2378	2396	rBV	614547	1496726	12.91%	1.275%
18	14.980	2396	2404	2408	rBV7	42718	121319	1.05%	0.103%
19	15.059	2408	2417	2429	rVB	4890840	11594332	100.00%	9.878%
20	15.287	2440	2455	2469	rVB	456581	1277352	11.02%	1.088%
21	15.419	2469	2477	2482	rBV	252852	611492	5.27%	0.521%
22	15.480	2482	2487	2495	rVV	328925	736901	6.36%	0.628%
23	15.570	2495	2502	2508	rVV	467892	1101354	9.50%	0.938%
24	15.648	2508	2515	2530	rVB	3768788	8684257	74.90%	7.399%
25	15.786	2530	2538	2547	rVB	195425	452993	3.91%	0.386%
26	15.931	2547	2562	2569	rBV2	1511998	4862682	41.94%	4.143%
27	16.015	2569	2576	2594	rVB4	1252268	3552310	30.64%	3.026%
28	16.183	2595	2604	2612	rBV	549064	1257491	10.85%	1.071%
29	16.285	2612	2621	2631	rBV	1304106	2992287	25.81%	2.549%
30	16.400	2631	2640	2644	rBV	851229	2032662	17.53%	1.732%
31	16.442	2644	2647	2655	rVV	779978	1490499	12.86%	1.270%
32	16.544	2656	2664	2671	rVV	1333516	2957481	25.51%	2.520%

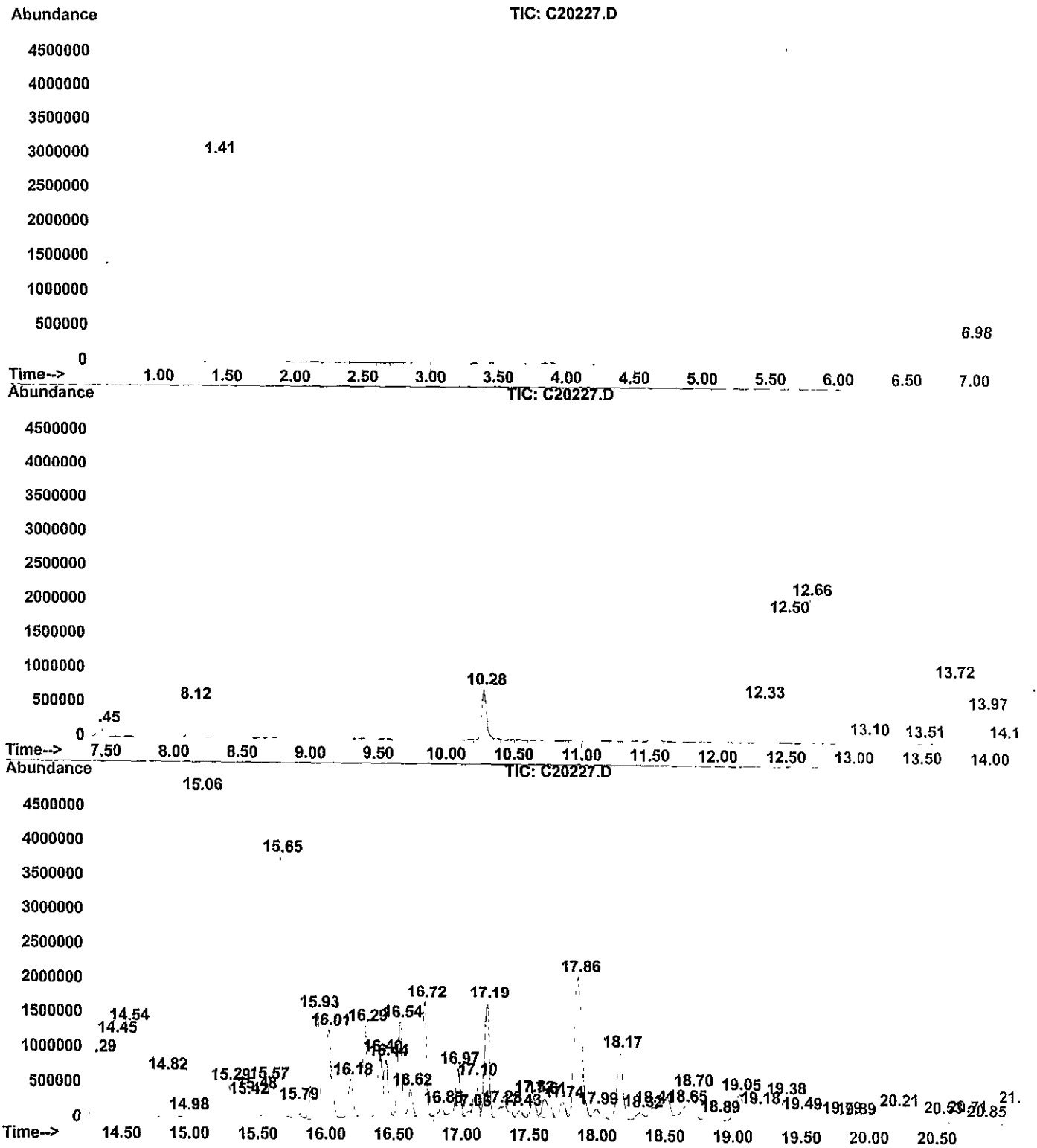
33	16.622	2671	2677	2685	rVB	383671	815791	7.04%	0.695%
34	16.724	2685	2694	2704	rBV2	1646605	4021731	34.69%	3.426%
35	16.851	2704	2715	2721	rBV4	127318	348202	3.00%	0.297%
36	16.971	2728	2735	2743	rVB2	676206	1651245	14.24%	1.407%
37	17.055	2743	2749	2750	rBV2	73651	117875	1.02%	0.100%
38	17.103	2751	2757	2763	rVB	473596	1029191	8.88%	0.877%
39	17.188	2763	2771	2780	rVB	1651960	4023472	34.70%	3.428%
40	17.284	2780	2787	2789	rBV3	148965	310246	2.68%	0.264%
41	17.428	2805	2811	2819	rVB4	102774	276540	2.39%	0.236%
42	17.524	2820	2827	2835	rBV3	295363	777743	6.71%	0.663%
43	17.615	2835	2842	2855	rVB3	271334	1016362	8.77%	0.866%
44	17.741	2855	2863	2871	rBV3	218188	605165	5.22%	0.516%
45	17.855	2871	2882	2898	rBV3	2026414	7946652	68.54%	6.770%
46	17.993	2899	2905	2918	rVB3	132284	358253	3.09%	0.305%
47	18.168	2920	2934	2946	rVB	968243	2979998	25.70%	2.539%
48	18.324	2947	2960	2966	rBV4	117413	445628	3.84%	0.380%
49	18.408	2967	2974	2978	rBV2	126800	351986	3.04%	0.300%
50	18.649	3007	3014	3015	rBV	107296	226002	1.95%	0.193%
51	18.697	3017	3022	3035	rVB3	400035	1168700	10.08%	0.996%
52	18.890	3047	3054	3063	rBV5	49730	143118	1.23%	0.122%
53	19.046	3066	3080	3093	rVV3	363873	1424620	12.29%	1.214%
54	19.184	3094	3103	3114	rVB3	179106	577233	4.98%	0.492%
55	19.377	3114	3135	3146	rBV3	319118	1265749	10.92%	1.078%
56	19.491	3146	3154	3164	rBV3	95154	301688	2.60%	0.257%
57	19.786	3187	3203	3212	rBV4	61026	245907	2.12%	0.209%
58	19.888	3212	3220	3234	rVB9	38580	137709	1.19%	0.117%
59	20.207	3257	3273	3274	rBV3	147412	418531	3.61%	0.357%
60	20.531	3317	3327	3339	rVB3	61779	217549	1.88%	0.185%
61	20.712	3344	3357	3371	rVV6	89462	400559	3.45%	0.341%
62	20.850	3371	3380	3394	rVB6	34738	138851	1.20%	0.118%
63	21.085	3399	3419	3421	rBV4	237295	700705	6.04%	0.597%

Sum of corrected areas: 117378231

C20227.D 05310125.M Fri Jun 01 08:57:26 2001

LSC Report - Integrated Chromatogram

File : C:\HPCHEM\1\DATA\053101\C20227.D
Operator : JP/VRR/DAT
Acquired : 31 May 2001 15:13 using AcqMethod 05310125
Instrument : HP013
Sample Name: AC14037 25ml DF=1
Misc Info : 27988/C05310125
Vial Number: 14
Quant File :05310125.RES (RTE Integrator)



C20227.D 05310125.M Fri Jun 01 08:57:26 2001

Data File : C:\HPCHEM\1\DATA\053101\C20227.D
Acq On : 05/31/01 15:13
Sample : AC14037 25ml DF=1
Misc : 27988/C05310125
MS Integration Params: LSCINT.P

Vial: 14
Operator: JP/VRR/DAT
Inst : HP013
Multiplr: 1.00

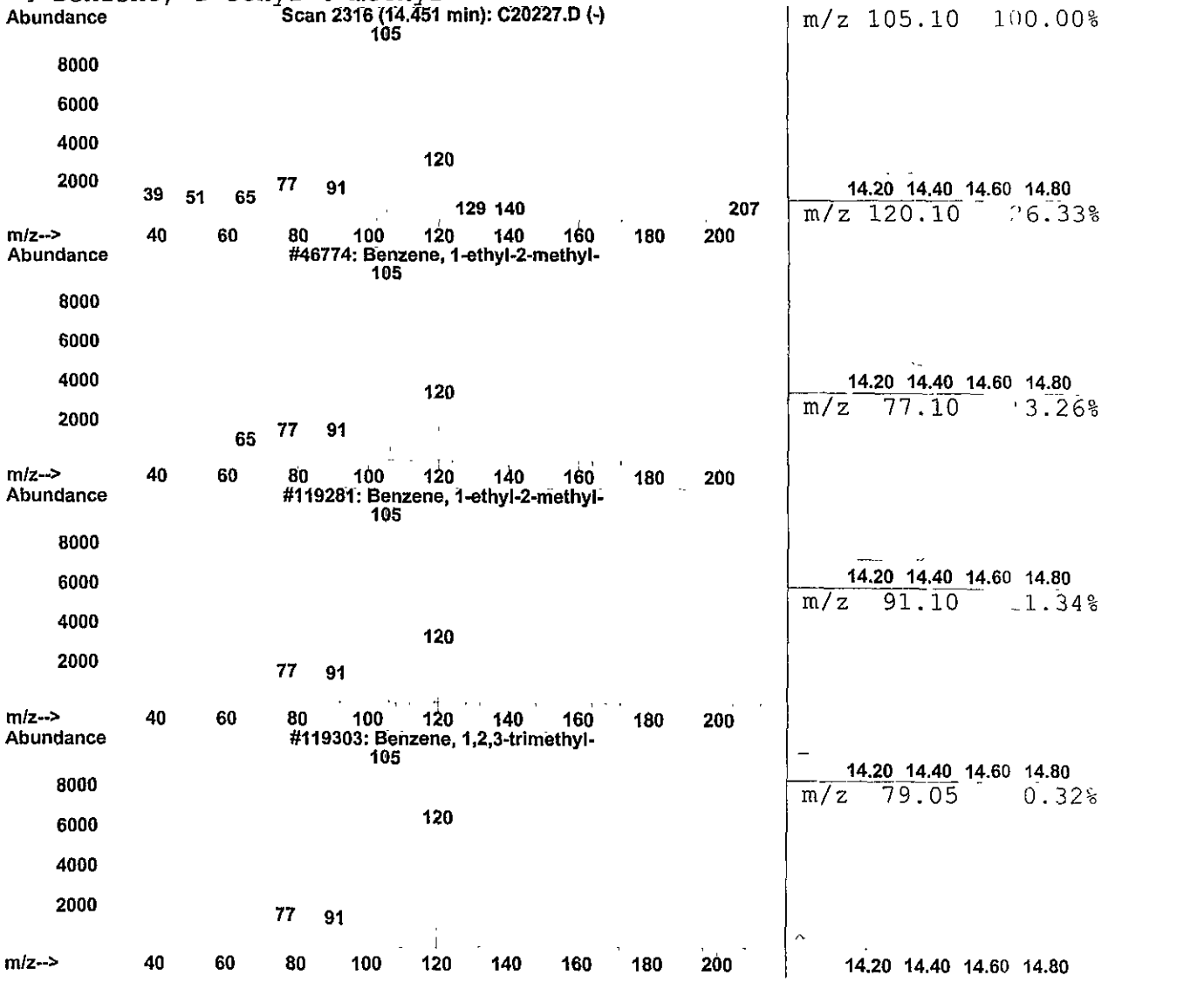
Quant Method : c:\hpchem\1\data\053101\05310125.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Library : C:\DATABASE\NIST98.L

****

Peak Number 1 Benzene, 1-ethyl-2-methyl- Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.45	28.24 ug\L	3110410	1,4-Dichlorobenzene-d4	15.57

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1-ethyl-2-methyl-	120	C9H12	000611-14-3	94
2	Benzene, 1-ethyl-2-methyl-	120	C9H12	000611-14-3	94
3	Benzene, 1,2,3-trimethyl-	120	C9H12	000526-73-8	91
4	Benzene, 1-ethyl-4-methyl-	120	C9H12	000622-96-8	91



Data File : C:\HPCHEM\1\DATA\053101\C20227.D Vial: 14
Acq On : 05/31/01 15:13 Operator: JP/VRR/DAT
Sample : AC14037 25ml DF=1 Inst : HP013
Misc : 27988/C05310125 Multiplr: 1.00
MS Integration Params: LSCINT.P

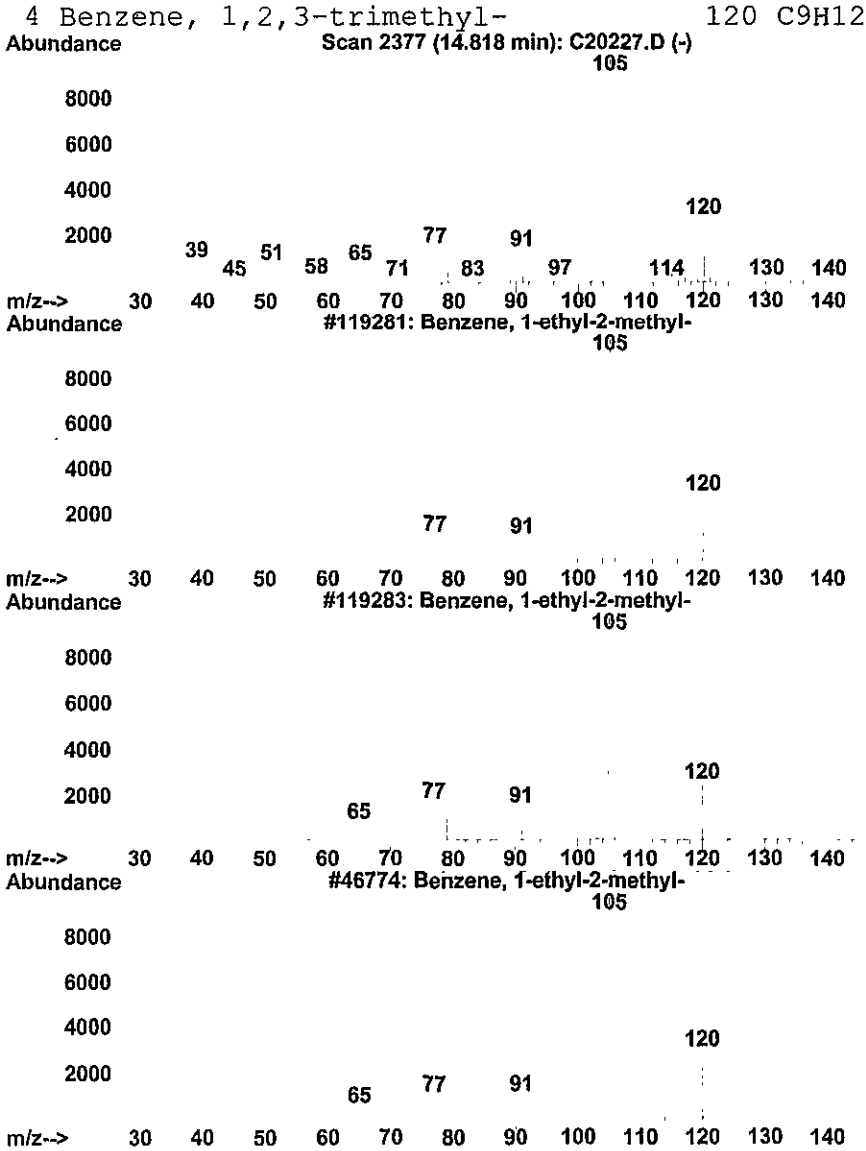
Quant Method : c:\hpchem\1\data\053101\05310125.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Library : C:\DATABASE\NIST98.L

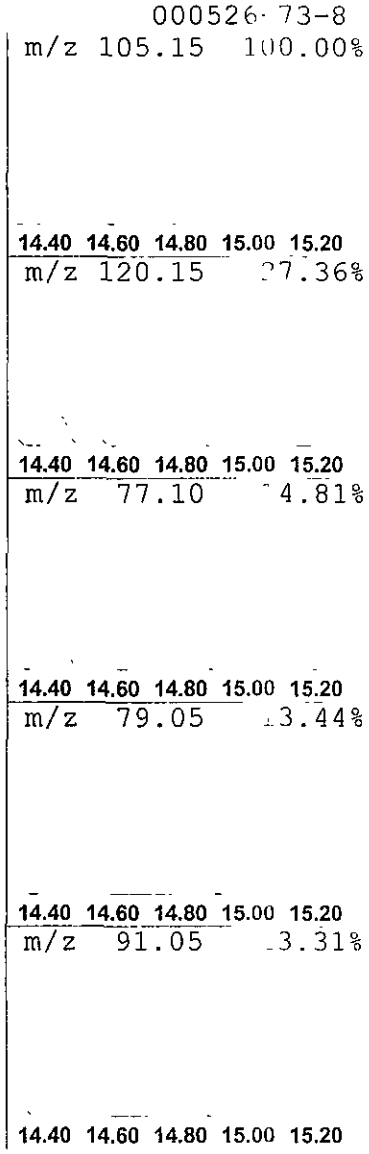
****

Peak Number 2 Benzene, 1-ethyl-2-methyl- Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.82	13.59 ug\L	1496730	1,4-Dichlorobenzene-d4	15.57

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1-ethyl-2-methyl-	120	C9H12	000611-14-3	94
2	Benzene, 1-ethyl-2-methyl-	120	C9H12	000611-14-3	93
3	Benzene, 1-ethyl-2-methyl-	120	C9H12	000611-14-3	91
4	Benzene, 1,2,3-trimethyl-	120	C9H12	000526-73-8	91





Data File : C:\HPCHEM\1\DATA\053101\C20227.D Vial: 14
Acq On : 05/31/01 15:13 Operator: JP/VRR/DAT
Sample : AC14037 25ml DF=1 Inst : HP013
Misc : 27988/C05310125 Multiplr: 1.00
MS Integration Params: LSCINT.P

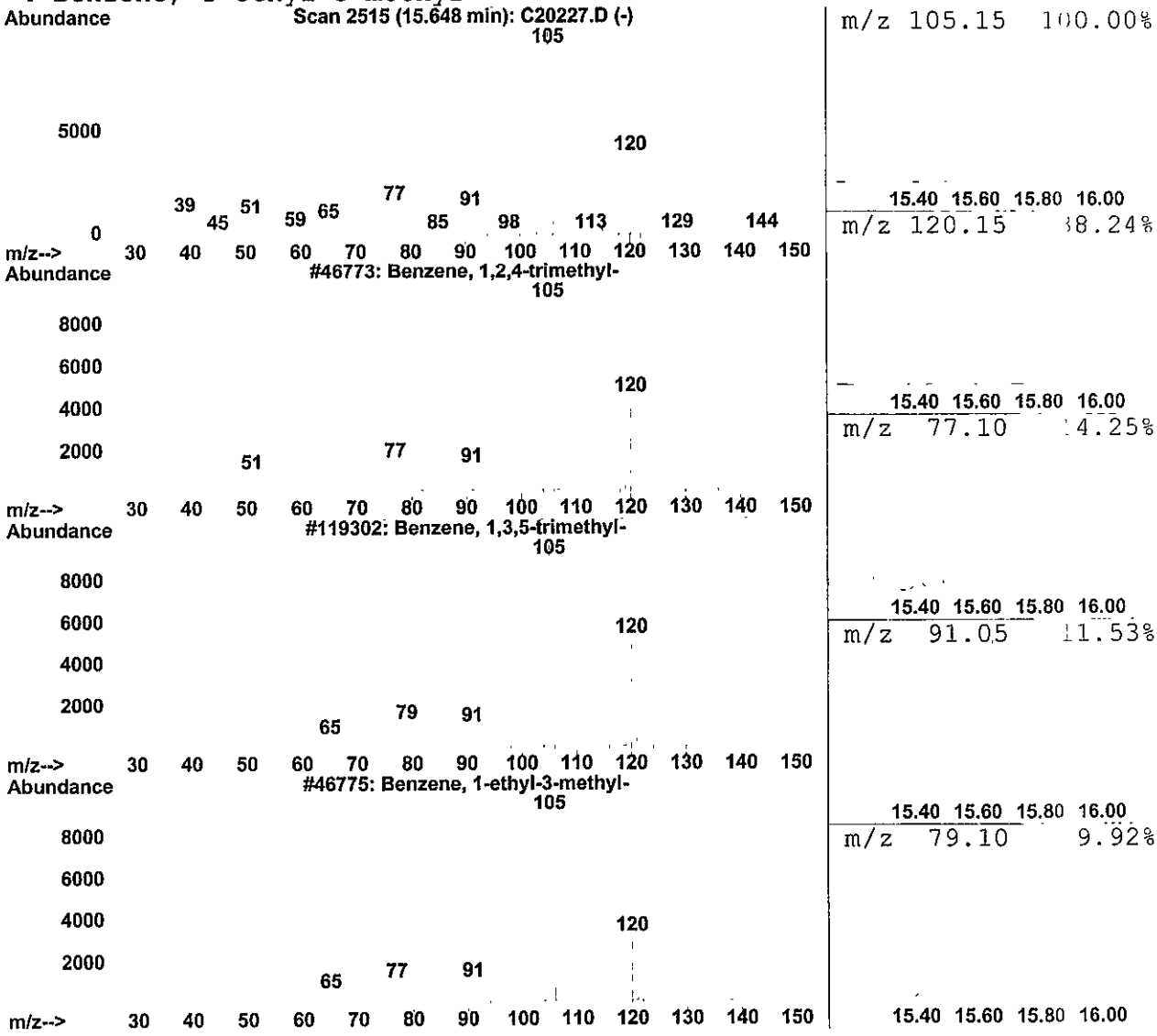
Quant Method : c:\hpchem\1\data\053101\05310125.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Library : C:\DATABASE\NIST98.L

****

Peak Number 3 Benzene, 1,2,4-trimethyl- Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.65	78.85 ug\L	8684260	1,4-Dichlorobenzene-d4	15.57

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1,2,4-trimethyl-	120	C9H12	000095-63-6	95
2	Benzene, 1,3,5-trimethyl-	120	C9H12	000108-67-8	94
3	Benzene, 1-ethyl-3-methyl-	120	C9H12	000620-14-4	91
4	Benzene, 1-ethyl-3-methyl-	120	C9H12	000620-14-4	91



Data File : C:\HPCHEM\1\DATA\053101\C20227.D Vial: 14
Acq On : 05/31/01 15:13 Operator: JP/VRR/DAT
Sample : AC14037 25ml DF=1 Inst : HP013
Misc : 27988/C05310125 Multiplr: 1.00
MS Integration Params: LSCINT.P

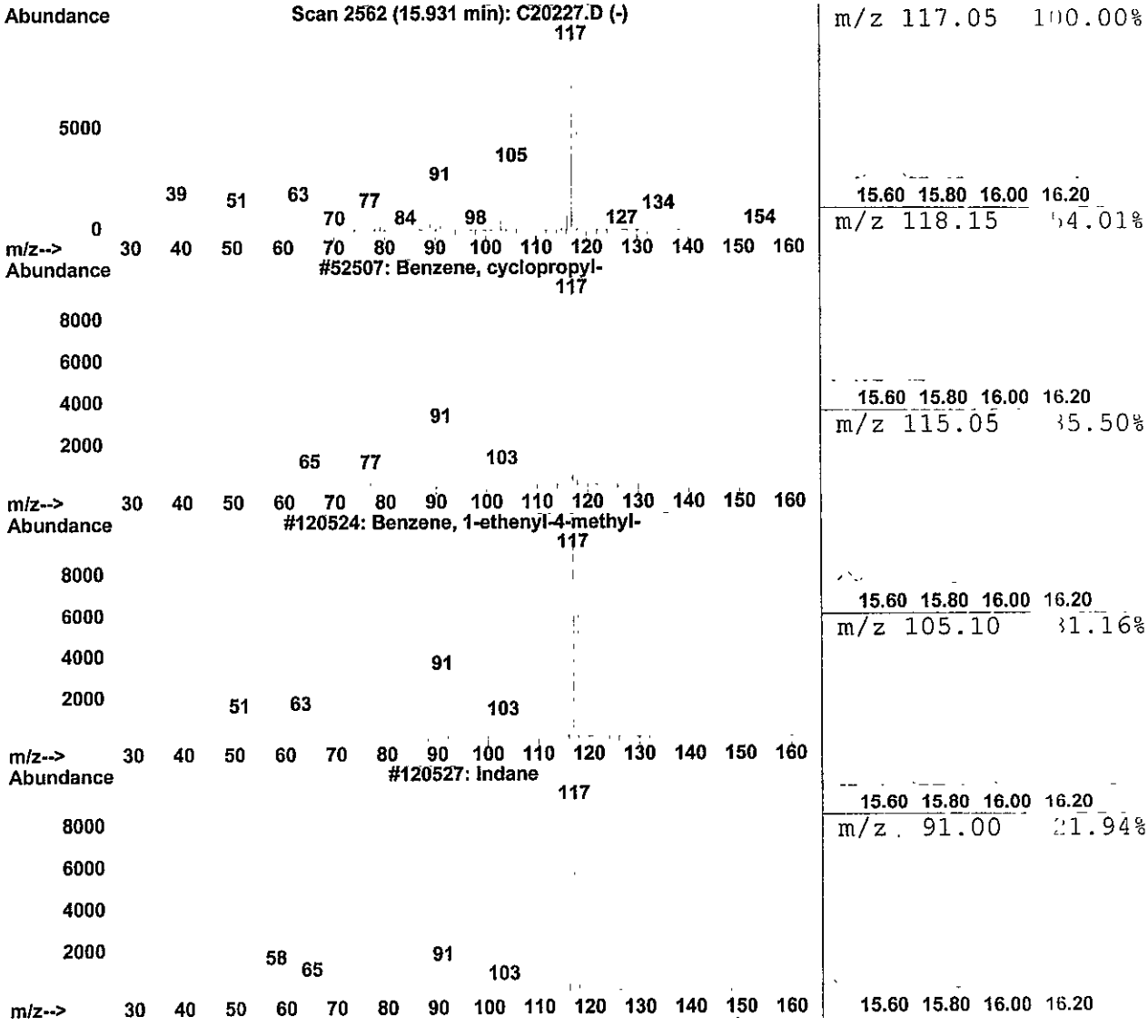
Quant Method : c:\hpchem\1\data\053101\05310125.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Library : C:\DATABASE\NIST98.L

****

Peak Number 4 Benzene, cyclopropyl- Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.93	44.15 ug\L	4862680	1,4-Dichlorobenzene-d4	15.57

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, cyclopropyl-	118	C9H10	000873-49-4	93
2	Benzene, 1-ethenyl-4-methyl-	118	C9H10	000622-97-9	89
3	Indane	118	C9H10	000496-11-7	70
4	Indane	118	C9H10	000496-11-7	70



Data File : C:\HPCHEM\1\DATA\053101\C20227.D Vial: 14
Acq On : 05/31/01 15:13 Operator: JP/VRR/DAT
Sample : AC14037 25ml DF=1 Inst : HP013
Misc : 27988/C05310125 Multiplr: 1.00
MS Integration Params: LSCINT.P

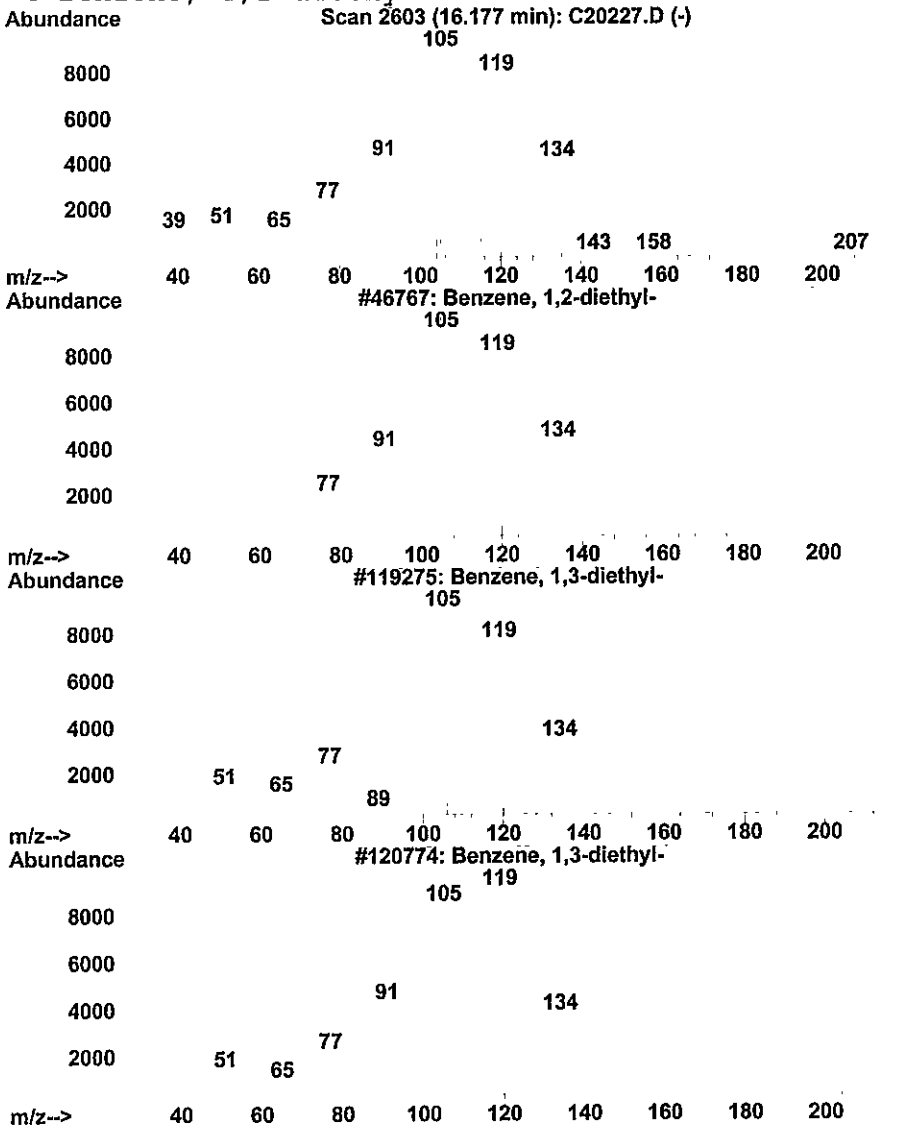
Quant Method : c:\hpchem\1\data\053101\05310125.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Library : C:\DATABASE\NIST98.L

****

Peak Number 5 Benzene, 1,2-diethyl- Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.18	11.42 ug\L	1257490	1,4-Dichlorobenzene-d4	15.57

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1,2-diethyl-	134	C10H14	000135-01-3	98
2	Benzene, 1,3-diethyl-	134	C10H14	000141-93-5	95
3	Benzene, 1,3-diethyl-	134	C10H14	000141-93-5	95
4	Benzene, 1,2-diethyl-	134	C10H14	000135-01-3	94



m/z 105.10 100.00%
m/z 119.05 79.52%
m/z 91.05 42.12%
m/z 134.05 41.39%
m/z 77.10 23.34%

Data File : C:\HPCHEM\1\DATA\053101\C20227.D Vial: 14
Acq On : 05/31/01 15:13 Operator: JP/VRR/DAT
Sample : AC14037 25ml DF=1 Inst : HP013
Misc : 27988/C05310125 Multiplr: 1.00
MS Integration Params: LSCINT.P

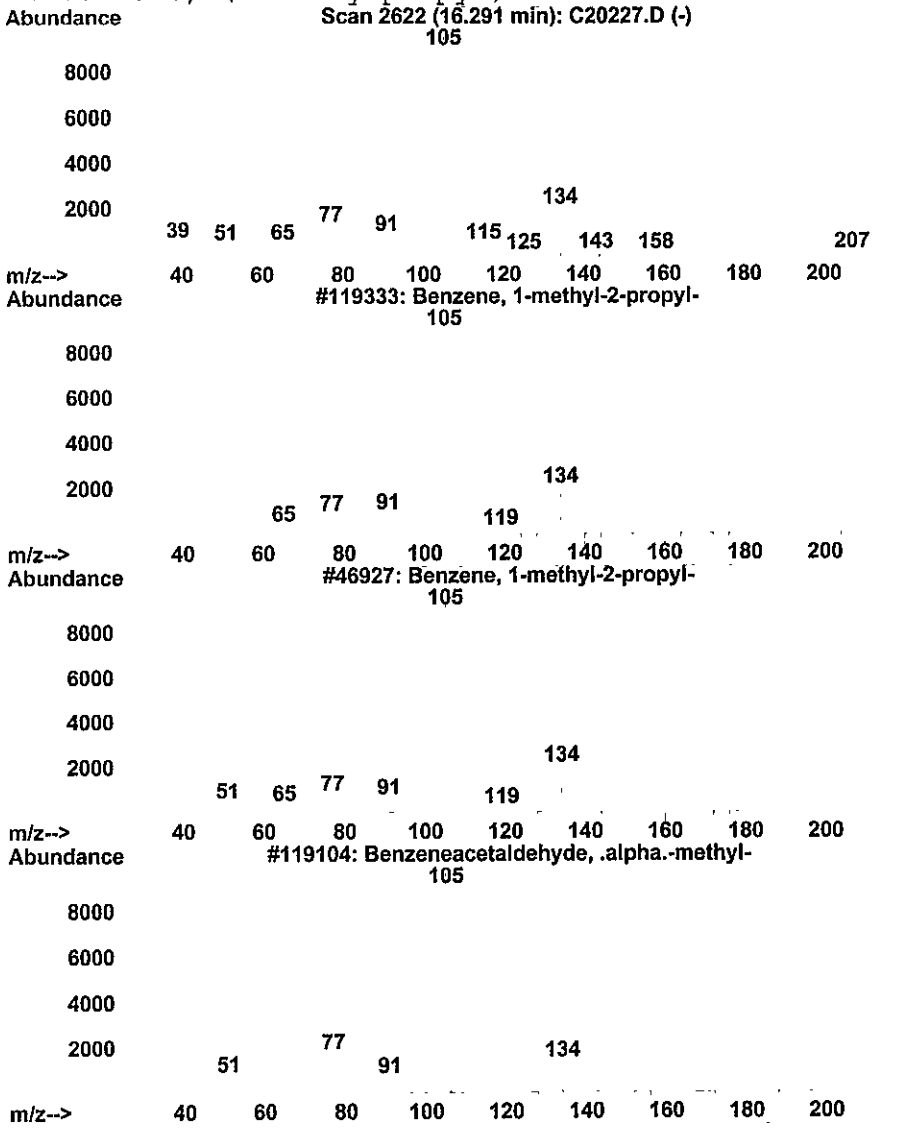
Quant Method : c:\hpchem\1\data\053101\05310125.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Library : C:\DATABASE\NIST98.L

****

Peak Number 6 Benzene, 1-methyl-2-propyl- Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.29	27.17 ug\L	2992290	1,4-Dichlorobenzene-d4	16.57

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1-methyl-2-propyl-	134	C10H14	001074-17-5	91
2	Benzene, 1-methyl-2-propyl-	134	C10H14	001074-17-5	91
3	Benzeneacetaldehyde, .alpha.-methyl	134	C9H10O	000093-53-8	91
4	Benzene, (1-methylpropyl)-	134	C10H14	000135-98-8	91



Data File : C:\HPCHEM\1\DATA\053101\C20227.D Vial: 14
Acq On : 05/31/01 15:13 Operator: JP/VRR/DA?
Sample : AC14037 25ml DF=1 Inst : HP01?
Misc : 27988/C05310125 Multiplr: 1.00
MS Integration Params: LSCINT.P

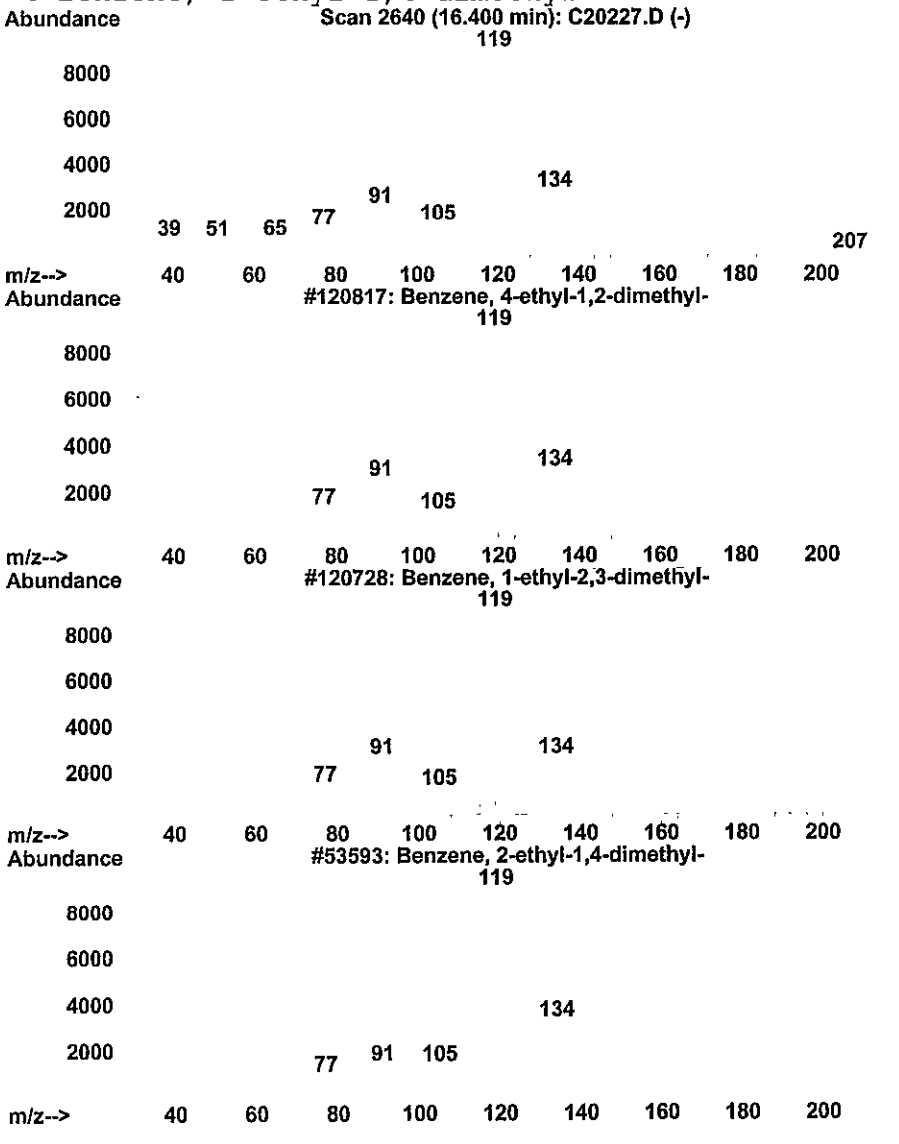
Quant Method : c:\hpchem\1\data\053101\05310125.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Library : C:\DATABASE\NIST98.L

****

Peak Number 7 Benzene, 4-ethyl-1,2-dimethyl- Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.40	18.46 ug\L	2032660	1,4-Dichlorobenzene-d4	15.57

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 4-ethyl-1,2-dimethyl-	134	C10H14	000934-80-5	96
2	Benzene, 1-ethyl-2,3-dimethyl-	134	C10H14	000933-98-2	95
3	Benzene, 2-ethyl-1,4-dimethyl-	134	C10H14	001758-88-9	94
4	Benzene, 2-ethyl-1,4-dimethyl-	134	C10H14	001758-88-9	94



Data File : C:\HPCHEM\1\DATA\053101\C20227.D Vial: 14
Acq On : 05/31/01 15:13 Operator: JP/VRR/DAT
Sample : AC14037 25ml DF=1 Inst : HP013
Misc : 27988/C05310125 Multiplr: 1.00
MS Integration Params: LSCINT.P

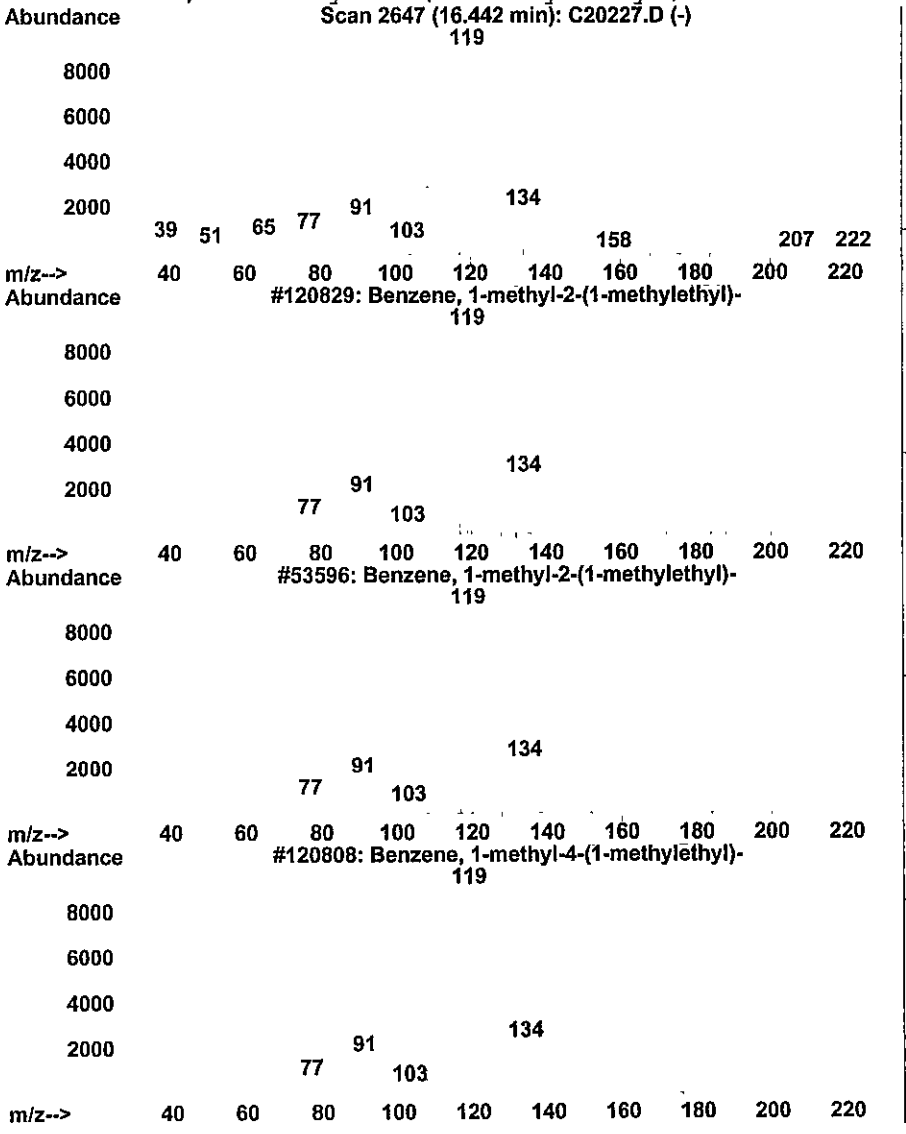
Quant Method : c:\hpchem\1\data\053101\05310125.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Library : C:\DATABASE\NIST98.L

****

Peak Number 8 Benzene, 1-methyl-2-(1-methyle Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.44	13.53 ug\L	1490500	1,4-Dichlorobenzene-d4	16.57

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1-methyl-2-(1-methylethyl)	134	C10H14	000527-84-4	94
2	Benzene, 1-methyl-2-(1-methylethyl)	134	C10H14	000527-84-4	94
3	Benzene, 1-methyl-4-(1-methylethyl)	134	C10H14	000099-87-6	94
4	Benzene, 1-methyl-3-(1-methylethyl)	134	C10H14	000535-77-3	91



Data File : C:\HPCHEM\1\DATA\053101\C20227.D Vial: 14
Acq On : 05/31/01 15:13 Operator: JP/VRR/DAT
Sample : AC14037 25ml DF=1 Inst : HP013
Misc : 27988/C05310125 Multiplr: 1.00
MS Integration Params: LSCINT.P

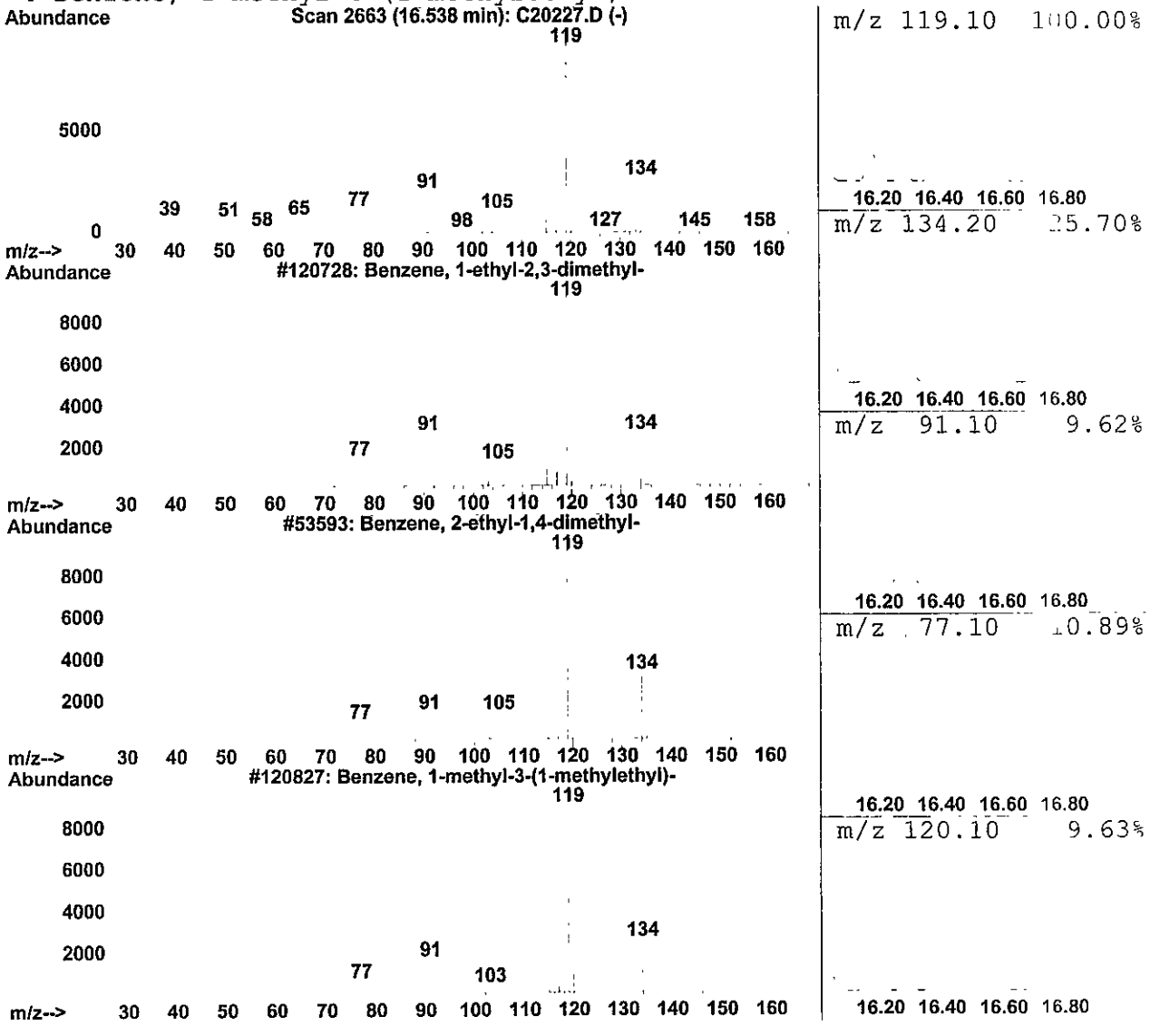
Quant Method : c:\hpchem\1\data\053101\05310125.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Library : C:\DATABASE\NIST98.L

****

Peak Number 9 Benzene, 1-ethyl-2,3-dimethyl- Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.54	26.85 ug\L	2957480	1,4-Dichlorobenzene-d4	16.57

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1-ethyl-2,3-dimethyl-	134	C10H14	000933-98-2	95
2	Benzene, 2-ethyl-1,4-dimethyl-	134	C10H14	001758-88-9	94
3	Benzene, 1-methyl-3-(1-methylethyl)	134	C10H14	000535-77-3	94
4	Benzene, 1-methyl-4-(1-methylethyl)	134	C10H14	000099-87-6	94



Data File : C:\HPCHEM\1\DATA\053101\C20227.D Vial: 14
Acq On : 05/31/01 15:13 Operator: JP/VRR/DAT
Sample : AC14037 25ml DF=1 Inst : HP01
Misc : 27988/C05310125 Multiplr: 1.00
MS Integration Params: LSCINT.P

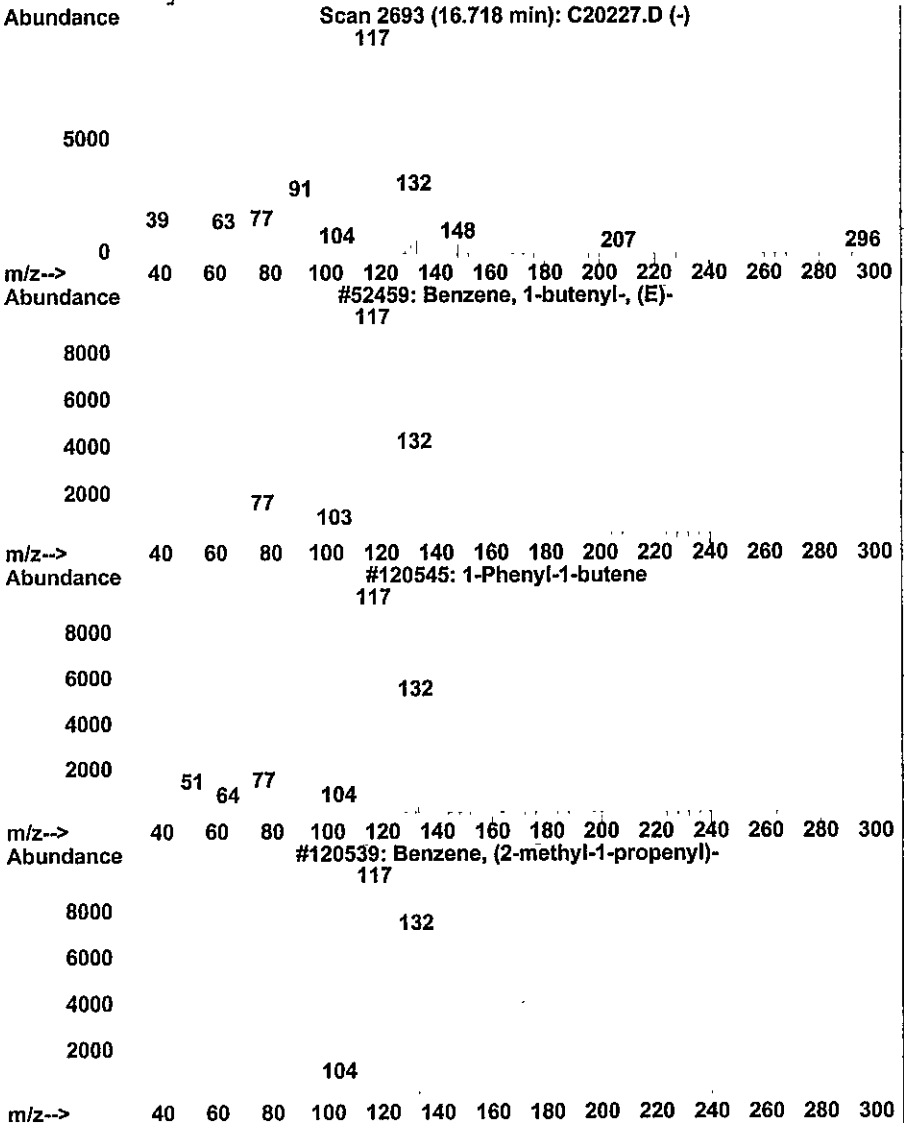
Quant Method : c:\hpchem\1\data\053101\05310125.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Library : C:\DATABASE\NIST98.L

****

Peak Number 10 Benzene, 1-butenyl-, (E)- Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R T.
16.72	36.52 ug\L	4021730	1,4-Dichlorobenzene-d4	16.57

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1-butenyl-, (E)-	132	C10H12	001005-64-7	86
2	1-Phenyl-1-butene	132	C10H12	000824-90-8	70
3	Benzene, (2-methyl-1-propenyl)-	132	C10H12	000768-49-0	70
4	1-Phenyl-1-butene	132	C10H12	000824-90-8	70



Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\053101\C20227.D Vial: 14
Acq On : 05/31/01 15:13 Operator: JP/VRR/DAT
Sample : AC14037 25ml DF=1 Inst : HP013
Misc : 27988/C05310125 Multiplr: 1.00
MS Integration Params: LSCINT.P

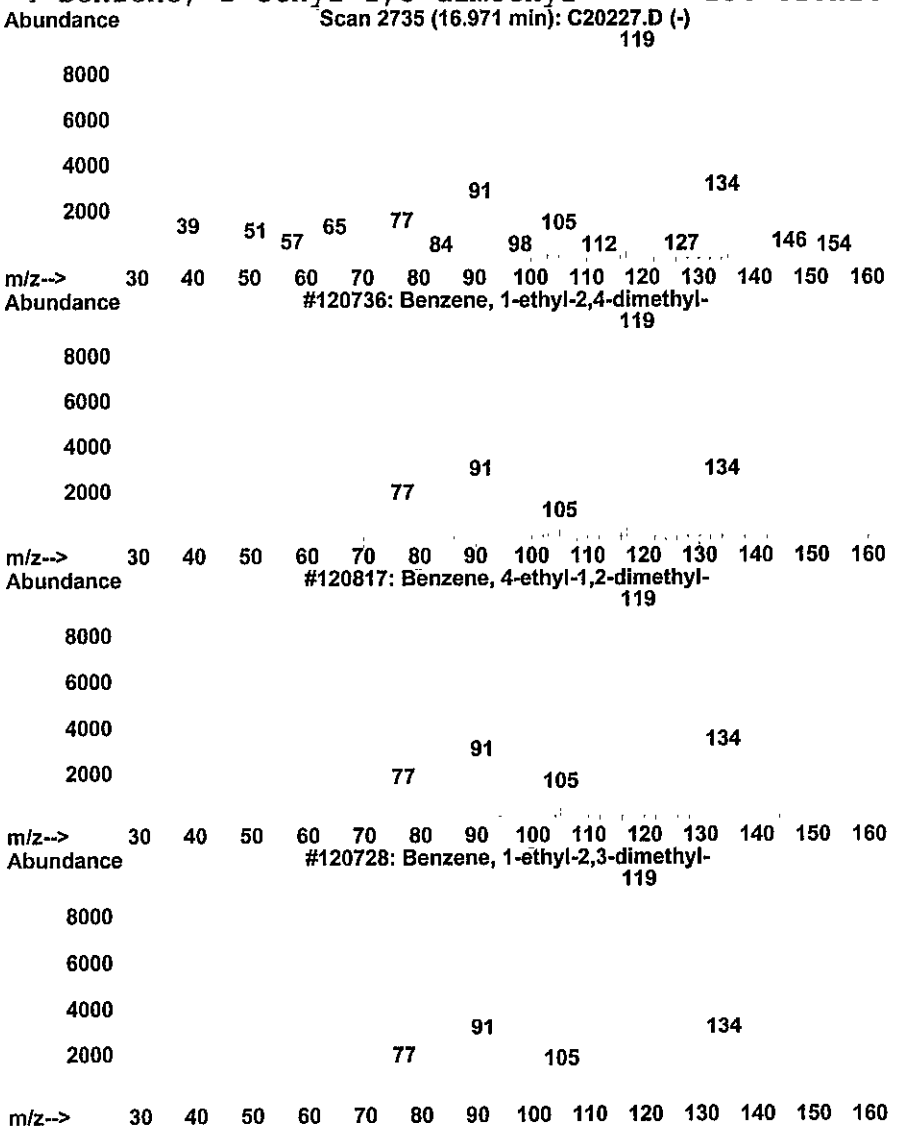
Quant Method : c:\hpchem\1\data\053101\05310125.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Library : C:\DATABASE\NIST98.L

****

Peak Number 11 Benzene, 1-ethyl-2,4-dimethyl- Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R T.
16.97	14.99 ug\L	1651250	1,4-Dichlorobenzene-d4	16.57

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1-ethyl-2,4-dimethyl-	134	C10H14	000874-41-9	97
2	Benzene, 4-ethyl-1,2-dimethyl-	134	C10H14	000934-80-5	96
3	Benzene, 1-ethyl-2,3-dimethyl-	134	C10H14	000933-98-2	96
4	Benzene, 2-ethyl-1,3-dimethyl-	134	C10H14	002870-04-4	95



m/z 119.10 100.00%

16.60 16.80 17.00 17.20

m/z 134.15 96.80%

16.60 16.80 17.00 17.20

m/z 91.10 73.76%

16.60 16.80 17.00 17.20

m/z 131.10 14.33%

16.60 16.80 17.00 17.20

m/z 77.05 0.87%

16.60 16.80 17.00 17.20

Data File : C:\HPCHEM\1\DATA\053101\C20227.D Vial: 14
Acq On : 05/31/01 15:13 Operator: JP/VRR/DAT
Sample : AC14037 25ml DF=1 Inst : HP013
Misc : 27988/C05310125 Multiplr: 1.00
MS Integration Params: LSCINT.P

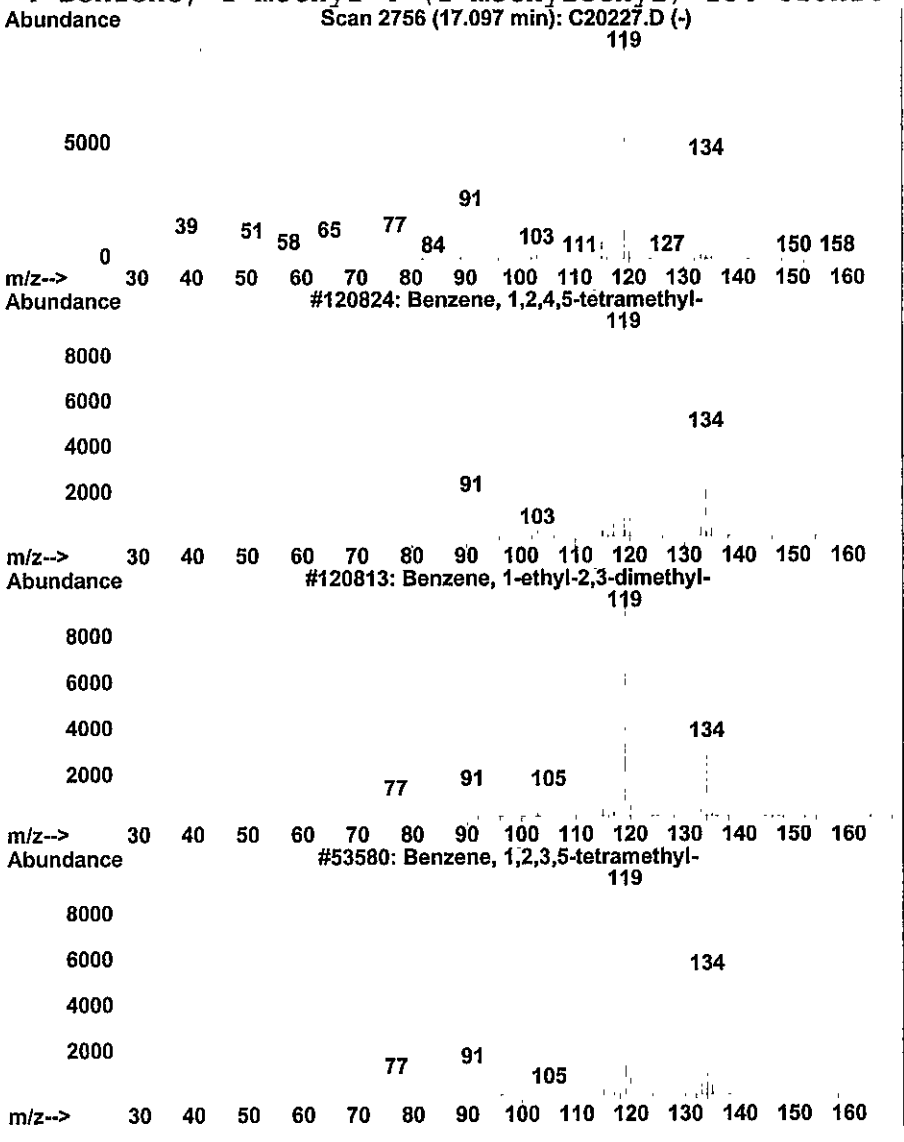
Quant Method : c:\hpchem\1\data\053101\05310125.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Library : C:\DATABASE\NIST98.L

****

Peak Number 12 Benzene, 1,2,4,5-tetramethyl- Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R T.
17.10	9.34 ug\L	1029190	1,4-Dichlorobenzene-d4	1..57

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1,2,4,5-tetramethyl-	134	C10H14	000095-93-2	93
2	Benzene, 1-ethyl-2,3-dimethyl-	134	C10H14	000933-98-2	91
3	Benzene, 1,2,3,5-tetramethyl-	134	C10H14	000527-53-7	91
4	Benzene, 1-methyl-4-(1-methylethyl)	134	C10H14	000099-87-6	91



m/z 119.15 100.00%

16.80 17.00 17.20 17.40
m/z 134.20 42.74%

16.80 17.00 17.20 17.40
m/z 91.05 70.32%

16.80 17.00 17.20 17.40
m/z 120.10 10.20%

16.80 17.00 17.20 17.40
m/z 133.20 8.92%

16.80 17.00 17.20 17.40

Data File : C:\HPCHEM\1\DATA\053101\C20227.D Vial: 14
Acq On : 05/31/01 15:13 Operator: JP/VRR/DAT
Sample : AC14037 25ml DF=1 Inst : HP01
Misc : 27988/C05310125 Multiplr: 1.00
MS Integration Params: LSCINT.P

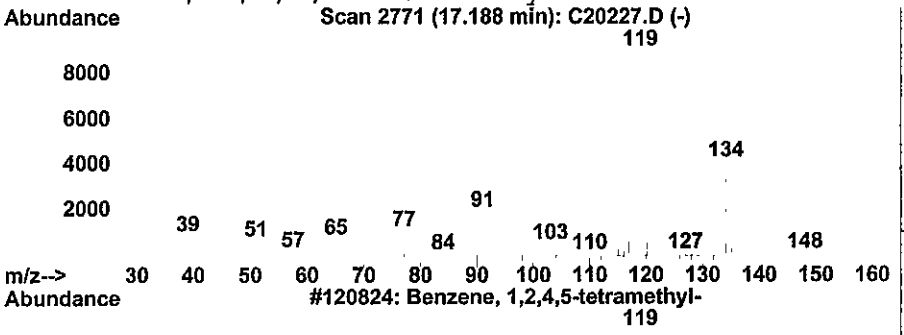
Quant Method : c:\hpchem\1\data\053101\05310125.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Library : C:\DATABASE\NIST98.L

****

Peak Number 13 Benzene, 1,2,4,5-tetramethyl- Concentration Rank 5

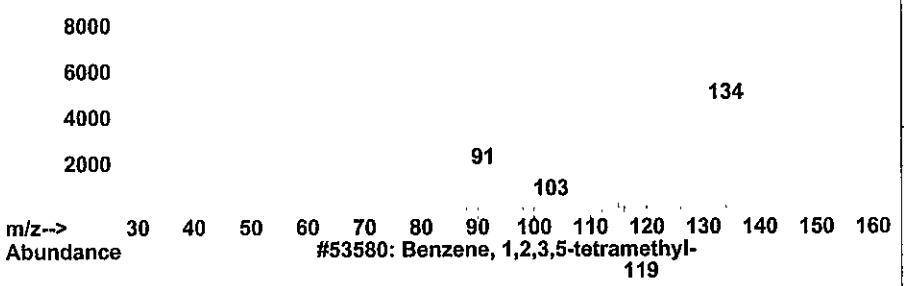
R.T.	EstConc	Area	Relative to ISTD	R T.
17.19	36.53 ug\L	4023470	1,4-Dichlorobenzene-d4	1 .57

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1,2,4,5-tetramethyl-	134	C10H14	000095-93-2	97
2	Benzene, 1,2,3,5-tetramethyl-	134	C10H14	000527-53-7	95
3	Benzene, 1-methyl-4-(1-methylethyl)	134	C10H14	000099-87-6	94
4	Benzene, 1,2,3,4-tetramethyl-	134	C10H14	000488-23-3	94

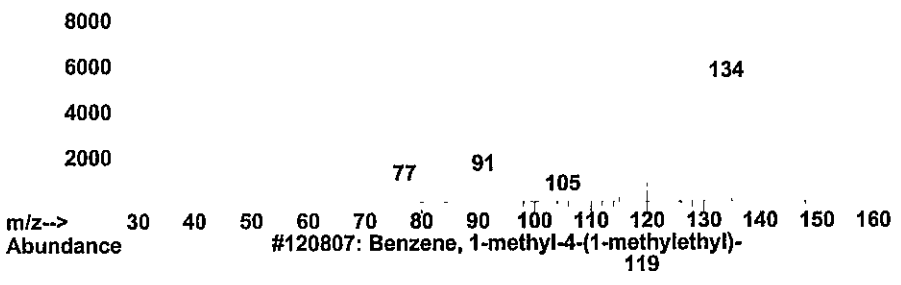


m/z 119.05 100.00%

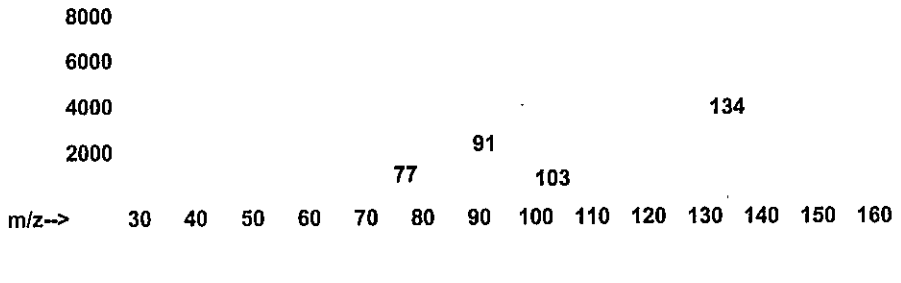
16.80 17.00 17.20 17.40 17.60
m/z 134.15 41.11%



16.80 17.00 17.20 17.40 17.60
m/z 91.05 19.20%



16.80 17.00 17.20 17.40 17.60
m/z 77.10 10.59%



16.80 17.00 17.20 17.40 17.60
m/z 120.15 9.20%

Data File : C:\HPCHEM\1\DATA\053101\C20227.D Vial: 14
Acq On : 05/31/01 15:13 Operator: JP/VRR/DAT
Sample : AC14037 25ml DF=1 Inst : HP013
Misc : 27988/C05310125 Multiplr: 1.00
MS Integration Params: LSCINT.P

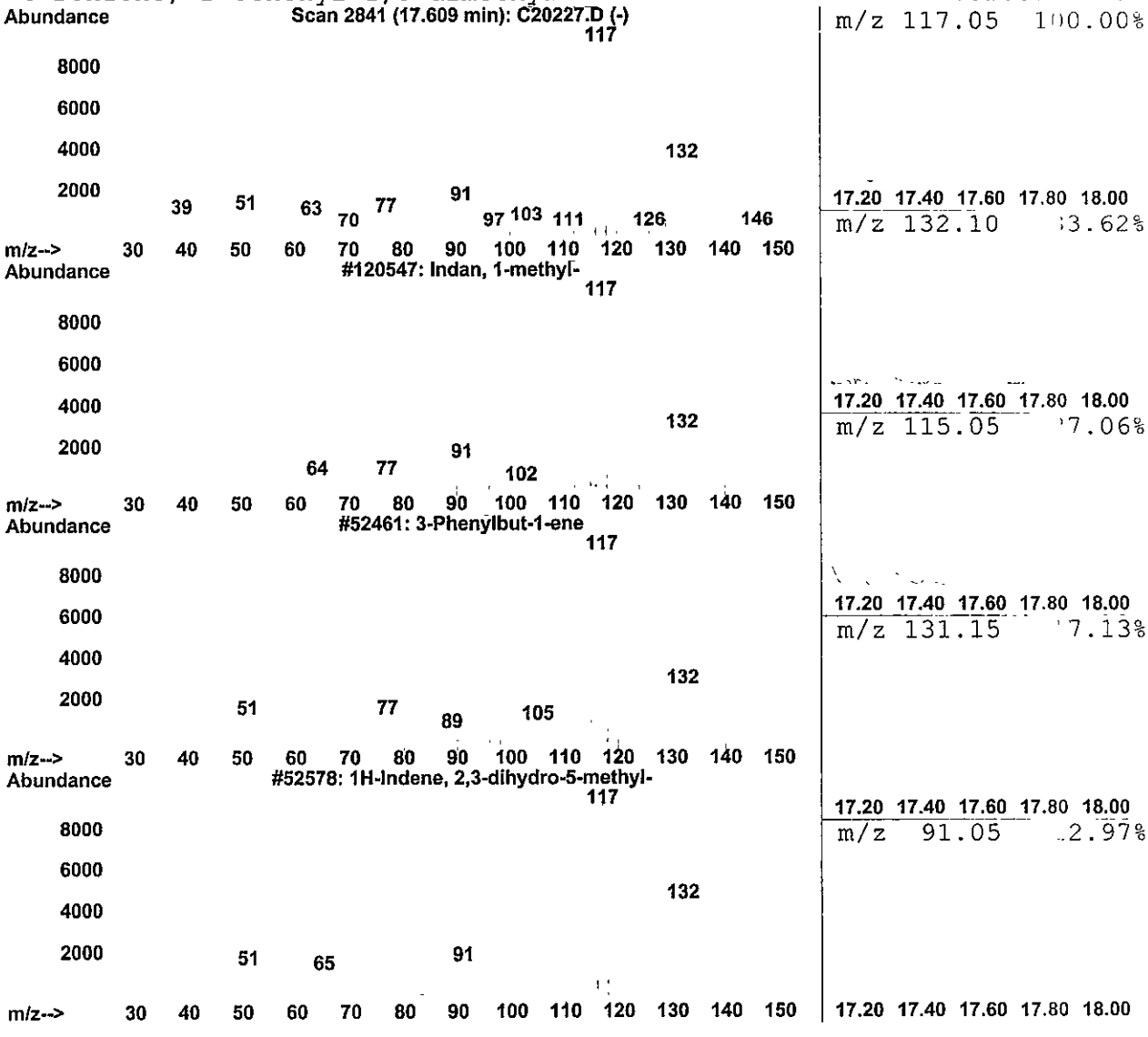
Quant Method : c:\hpchem\1\data\053101\05310125.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Library : C:\DATABASE\NIST98.L

****

Peak Number 14 Indan, 1-methyl- Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.61	9.23 ug\L	1016360	1,4-Dichlorobenzene-d4	15.57

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Indan, 1-methyl-	132	C10H12	000767-58-8	93
2	3-Phenylbut-1-ene	132	C10H12	000934 10-1	91
3	1H-Indene, 2,3-dihydro-5-methyl-	132	C10H12	000874-35-1	91
4	Benzene, 2-ethenyl-1,3-dimethyl-	132	C10H12	002039-90-9	90



Data File : C:\HPCHEM\1\DATA\053101\C20227.D Vial: 14
Acq On : 05/31/01 15:13 Operator: JP/VRR/DAT
Sample : AC14037 25ml DF=1 Inst : HP013
Misc : 27988/C05310125 Multiplr: 1.00
MS Integration Params: LSCINT.P

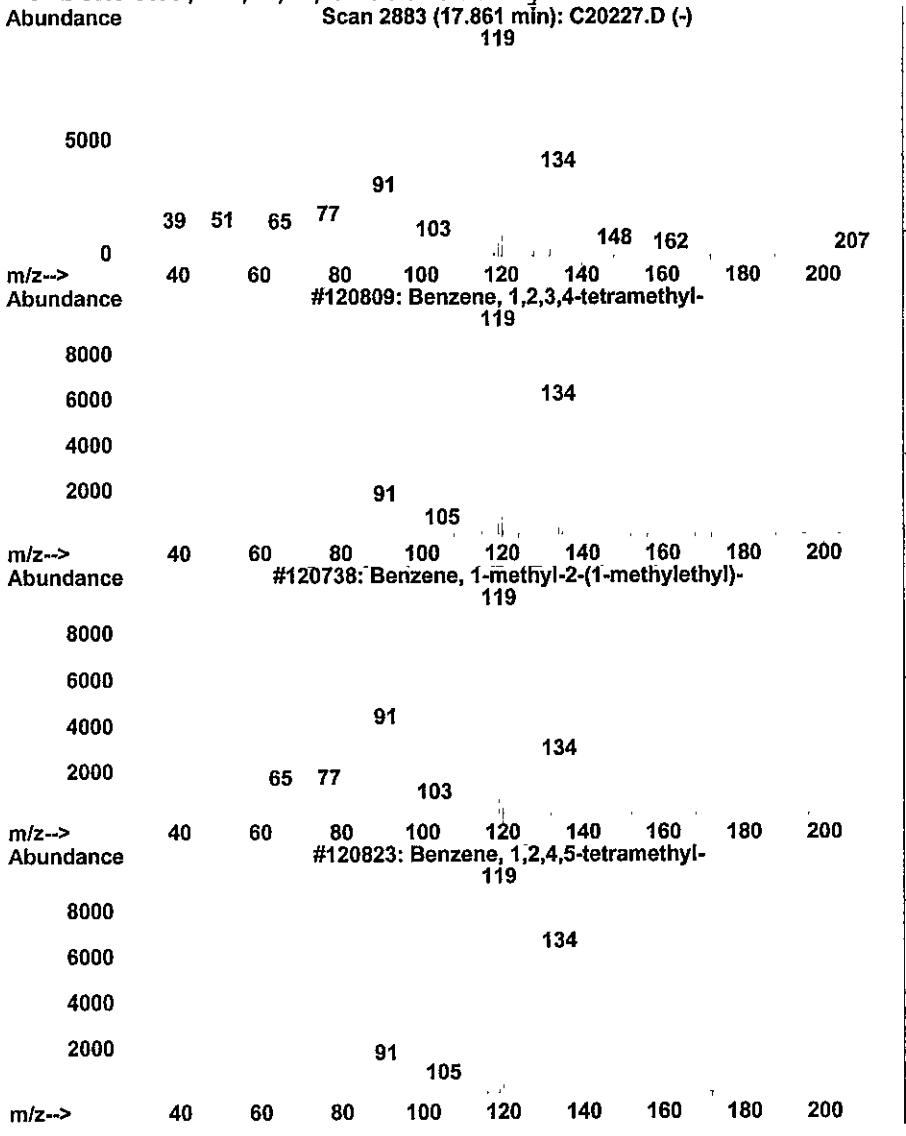
Quant Method : c:\hpchem\1\data\053101\05310125.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Library : C:\DATABASE\NIST98.L

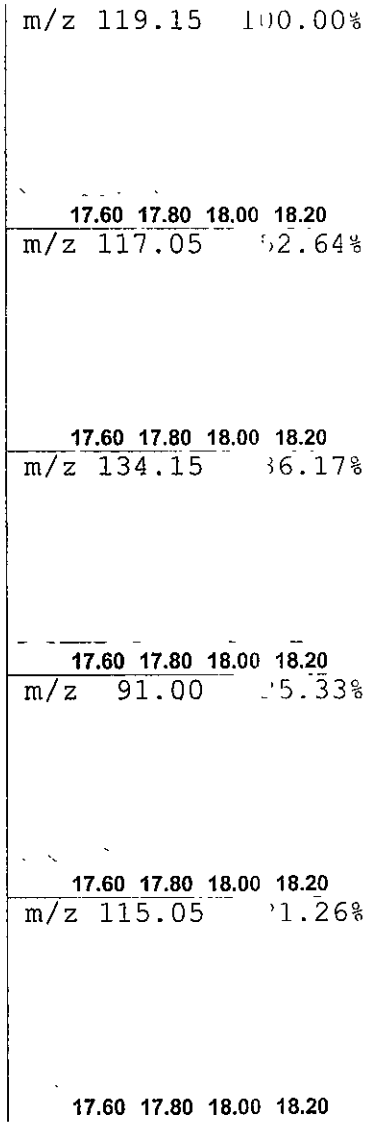
****

Peak Number 15 Benzene, 1,2,3,4-tetramethyl- Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.86	72.15 ug\L	7946650	1,4-Dichlorobenzene-d4	17.57

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1,2,3,4-tetramethyl-	134	C10H14	000488-23-3	81
2	Benzene, 1-methyl-2-(1-methylethyl)	134	C10H14	000527-84-4	81
3	Benzene, 1,2,4,5-tetramethyl-	134	C10H14	000095-93-2	81
4	Benzene, 1,2,4,5-tetramethyl-	134	C10H14	000095-93-2	81





Data File : C:\HPCHEM\1\DATA\053101\C20227.D Vial: 14
Acq On : 05/31/01 15:13 Operator: JP/VRR/DAT
Sample : AC14037 25ml DF=1 Inst : HP013
Misc : 27988/C05310125 Multiplr: 1.00
MS Integration Params: LSCINT.P

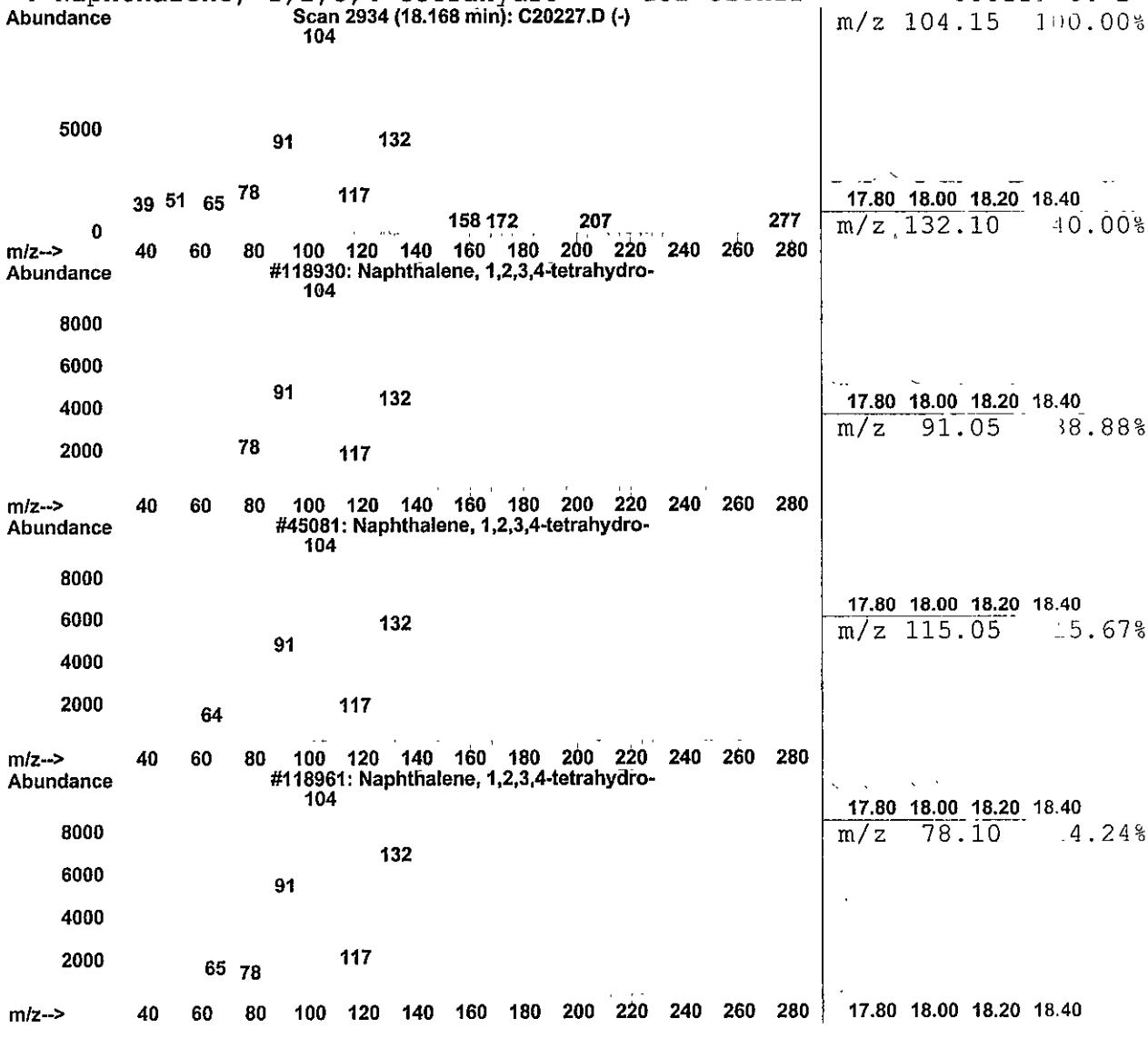
Quant Method : c:\hpchem\1\data\053101\05310125.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Library : C:\DATABASE\NIST98.L

****

Peak Number 16 Naphthalene, 1,2,3,4-tetrahydr Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.17	27.06 ug\L	2980000	1,4-Dichlorobenzene-d4	17.57

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 1,2,3,4-tetrahydro-	132	C10H12	000119-64-2	97
2	Naphthalene, 1,2,3,4-tetrahydro-	132	C10H12	000119-64-2	95
3	Naphthalene, 1,2,3,4-tetrahydro-	132	C10H12	000119-64-2	94
4	Naphthalene, 1,2,3,4-tetrahydro-	132	C10H12	000119-64-2	83



Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\053101\C20227.D Vial: 14
Acq On : 05/31/01 15:13 Operator: JP/VRR/DAT
Sample : AC14037 25ml DF=1 Inst : HP013
Misc : 27988/C05310125 Multiplr: 1.00
MS Integration Params: LSCINT.P

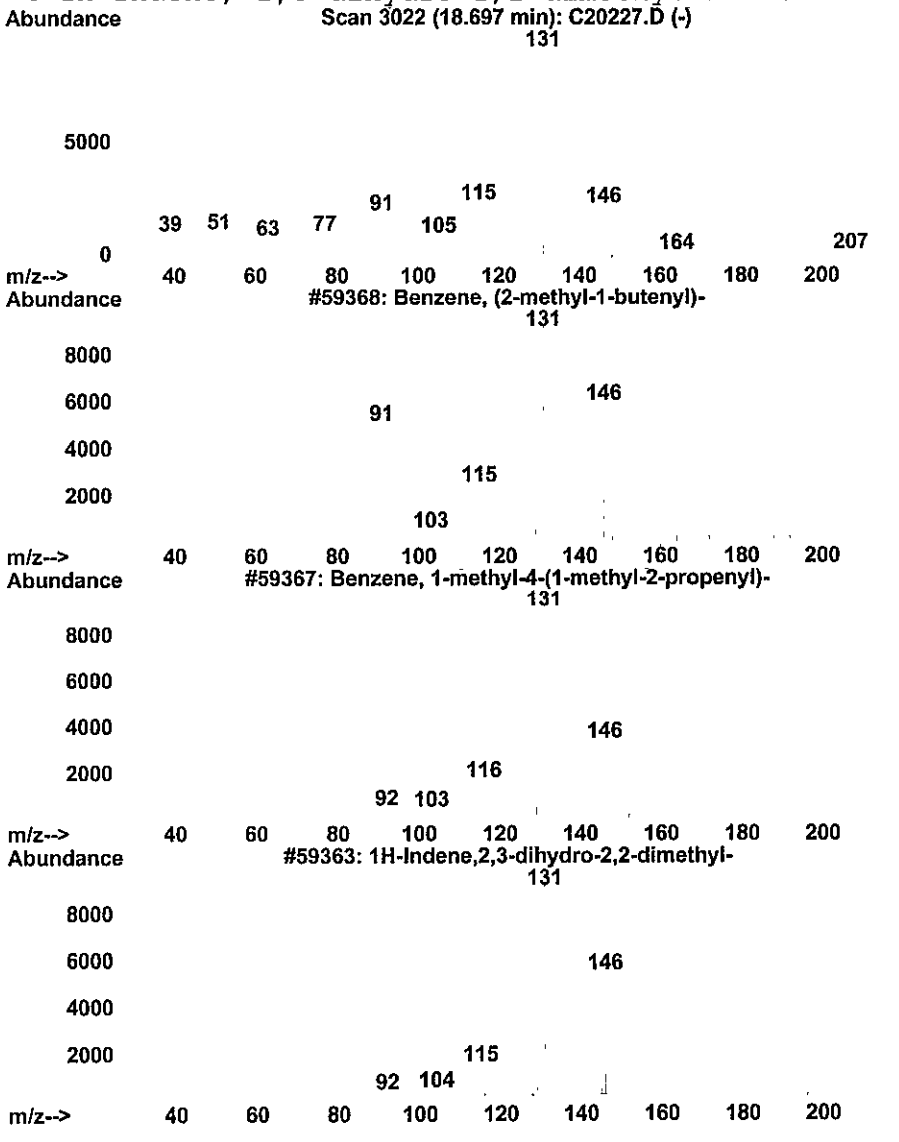
Quant Method : c:\hpchem\1\data\053101\05310125.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Library : C:\DATABASE\NIST98.L

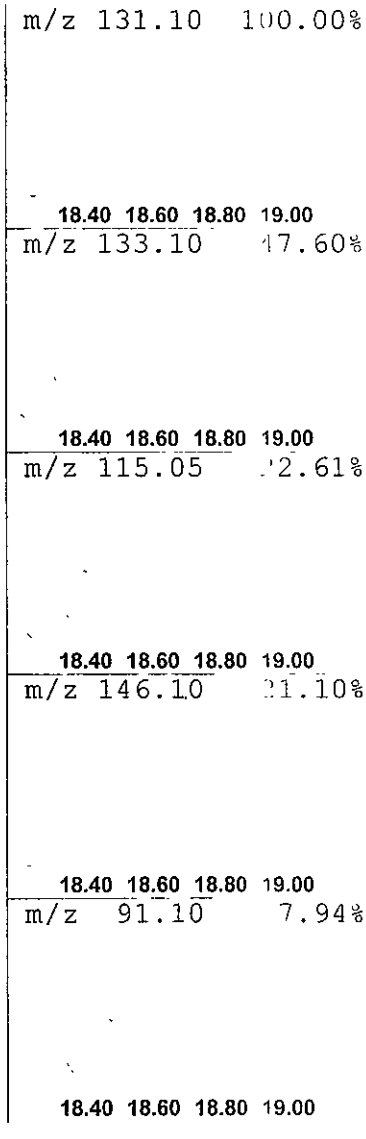
****

Peak Number 17 Benzene, (2-methyl-1-butenyl)- Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.70	10.61 ug\L	1168700	1,4-Dichlorobenzene-d4	15.57

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, (2-methyl-1-butenyl)-	146	C11H14	056253-64-6	89
2	Benzene, 1-methyl-4-(1-methyl-2-pro	146	C11H14	097664-18-1	86
3	1H-Indene,2,3-dihydro-2,2-dimethyl-	146	C11H14	020836-11-7	76
4	1H-Indene, 2,3-dihydro-1,2-dimethyl	146	C11H14	017057-82-8	76





Data File : C:\HPCHEM\1\DATA\053101\C20227.D Vial: 14
Acq On : 05/31/01 15:13 Operator: JP/VRR/DAT
Sample : AC14037 25ml DF=1 Inst : HP013
Misc : 27988/C05310125 Multiplr: 1.00
MS Integration Params: LSCINT.P

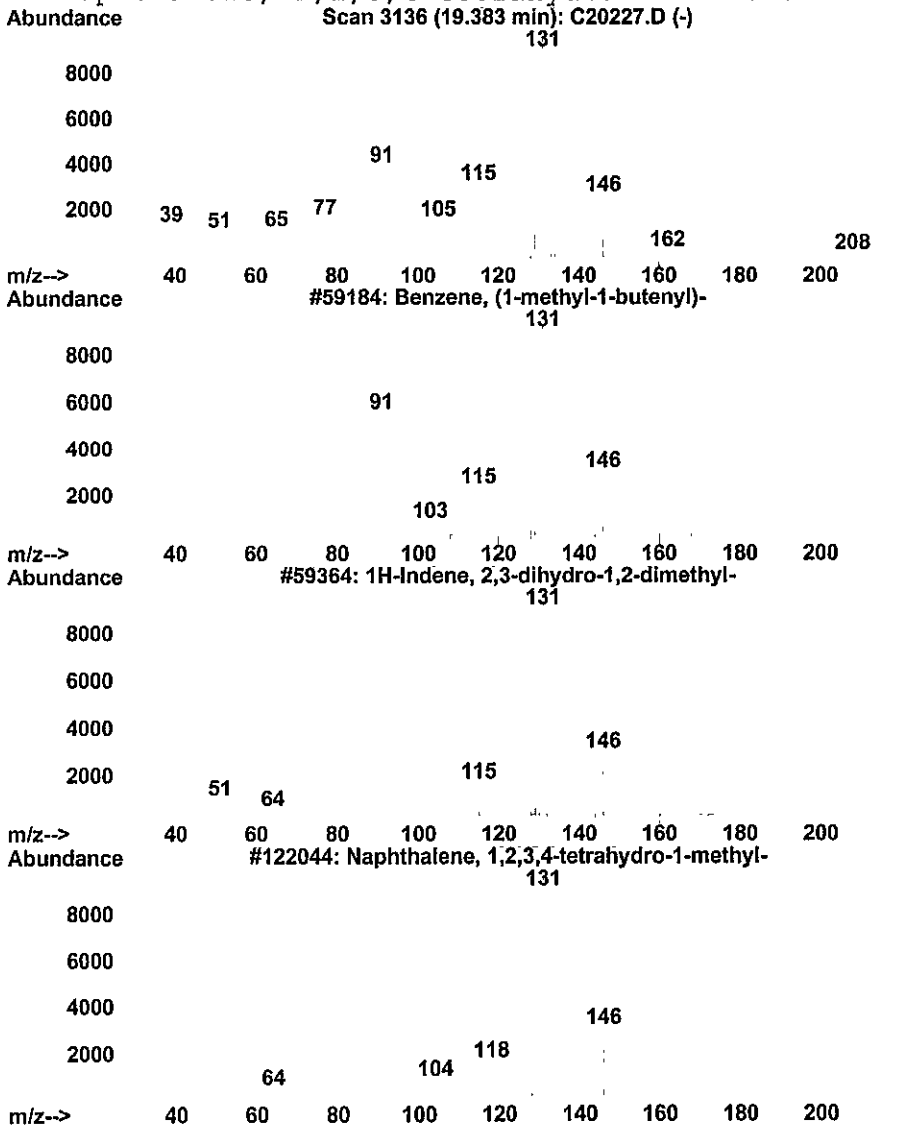
Quant Method : c:\hpchem\1\data\053101\05310125.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Library : C:\DATABASE\NIST98.L

****

Peak Number 18 Benzene, (1-methyl-1-butenyl)- Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.38	11.49 ug\L	1265750	1,4-Dichlorobenzene-d4	1[illegible].57

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, (1-methyl-1-butenyl)-	146	C11H14	053172-84-2	90
2	1H-Indene, 2,3-dihydro-1,2-dimethyl	146	C11H14	017057-82-8	64
3	Naphthalene, 1,2,3,4-tetrahydro-1-m	146	C11H14	001559-81-5	55
4	Naphthalene, 1,2,3,4-tetrahydro-1-m	146	C11H14	001559-81-5	55



m/z 131.10 100.00%

19.00 19.20 19.40 19.60 19.80
m/z 133.10 85.12%

19.00 19.20 19.40 19.60 19.80
m/z 91.10 39.35%

19.00 19.20 19.40 19.60 19.80
m/z 115.05 31.32%

19.00 19.20 19.40 19.60 19.80
m/z 117.05 [illegible]9.67%

Tentatively Identified Compound (LSC) summary

Operator ID: JP/VRR/DAT Date Acquired: 31 May 2001 15:13
Data File: C:\HPCHEM\1\DATA\053101\C20227.D
Name: AC14037 25ml DF=1
Misc: 27988/C05310125
Method: c:\hpchem\1\data\053101\05310125.M (RTE Integrator)
Title: 8260 CALIBRATION FOR 25ML WATER
Library Searched: C:\DATABASE\NIST98.L

TIC Top Hit name	RT	EstConc	Units	Area	IntStd	ISRT	ISArea	ISConc
Benzene, 1-ethyl-2-m	14.45	28.2	ug\L	3110410	ISTD04	15.57	1101350	10.0
Benzene, 1-ethyl-2-m	14.82	13.6	ug\L	1496730	ISTD04	15.57	1101350	10.0
Benzene, 1,2,4-trime	15.65	78.9	ug\L	8684260	ISTD04	15.57	1101350	10.0
Benzene, cyclopropyl	15.93	44.2	ug\L	4862680	ISTD04	15.57	1101350	10.0
Benzene, 1,2-diethyl	16.18	11.4	ug\L	1257490	ISTD04	15.57	1101350	10.0
Benzene, 1-methyl-2-	16.29	27.2	ug\L	2992290	ISTD04	15.57	1101350	10.0
Benzene, 4-ethyl-1,2	16.40	18.5	ug\L	2032660	ISTD04	15.57	1101350	10.0
Benzene, 1-methyl-2-	16.44	13.5	ug\L	1490500	ISTD04	15.57	1101350	10.0
Benzene, 1-ethyl-2,3	16.54	26.9	ug\L	2957480	ISTD04	15.57	1101350	10.0
Benzene, 1-butenyl-,	16.72	36.5	ug\L	4021730	ISTD04	15.57	1101350	10.0
Benzene, 1-ethyl-2,4	16.97	15.0	ug\L	1651250	ISTD04	15.57	1101350	10.0
Benzene, 1,2,4,5-tet	17.10	9.3	ug\L	1029190	ISTD04	15.57	1101350	10.0
Benzene, 1,2,4,5-tet	17.19	36.5	ug\L	4023470	ISTD04	15.57	1101350	10.0
Indan, 1-methyl-	17.61	9.2	ug\L	1016360	ISTD04	15.57	1101350	10.0
Benzene, 1,2,3,4-tet	17.86	72.2	ug\L	7946650	ISTD04	15.57	1101350	10.0
Naphthalene, 1,2,3,4	18.17	27.1	ug\L	2980000	ISTD04	15.57	1101350	10.0
Benzene, (2-methyl-1	18.70	10.6	ug\L	1168700	ISTD04	15.57	1101350	10.0
Benzene, (1-methyl-1	19.38	11.5	ug\L	1265750	ISTD04	15.57	1101350	10.0

C20227.D 05310125.M Fri Jun 01 08:57:38 2001

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\053101\C20228.D Vial: 1
Acq On : 05/31/01 15:39 Operator: JP/VRR/DAT
Sample : AC14038 25ml DF=1 Inst : HP013
Misc : 27988/C05310125 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 1 9:01 2001 Quant Results File: C05310125.RES

Quant Method : c:\hpchem\1\data\053101\05310125.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Wed May 30 13:53:00 2001
Response via : Initial Calibration
DataAcq Meth : 05310125

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	6.98	168	361690	10.00	ug\L	0.00
45) Chlorobenzene-d5	12.33	117	460906	10.00	ug\L	0.01
61) 1,4-Dichlorobenzene-d4	15.57	152	157733	10.00	ug\L	0.00
88) 1.4-Difluorobenzene	0.00	116	0m	10.00	ug\L	-8.12
System Monitoring Compounds						
32) 1,2-Dichloroethane-d4	7.44	65	162413	11.31	ug\L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 113.10%			
46) Toluene-d8	10.28	98	722477	10.68	ug\L	0.00
Spiked Amount 10.000	Range 87 - 104		Recovery = 106.80%#			
66) Bromofluorobenzene	13.98	95	207175	11.03	ug\L	0.00
Spiked Amount 10.000	Range 84 - 110		Recovery = 110.30%			
Target Compounds						Qvalue
3) Chloromethane	1.75	50	9615	0.51	ug\L	98 0.51J
11) Acetone	3.32	58	1660	1.67	ug\L	69
16) Methylene Chloride	3.87	86	10681	1.17	ug\L	93 1.2J
86) Naphthalene	19.05	128	12039	1.12	ug\L	100 1.1J

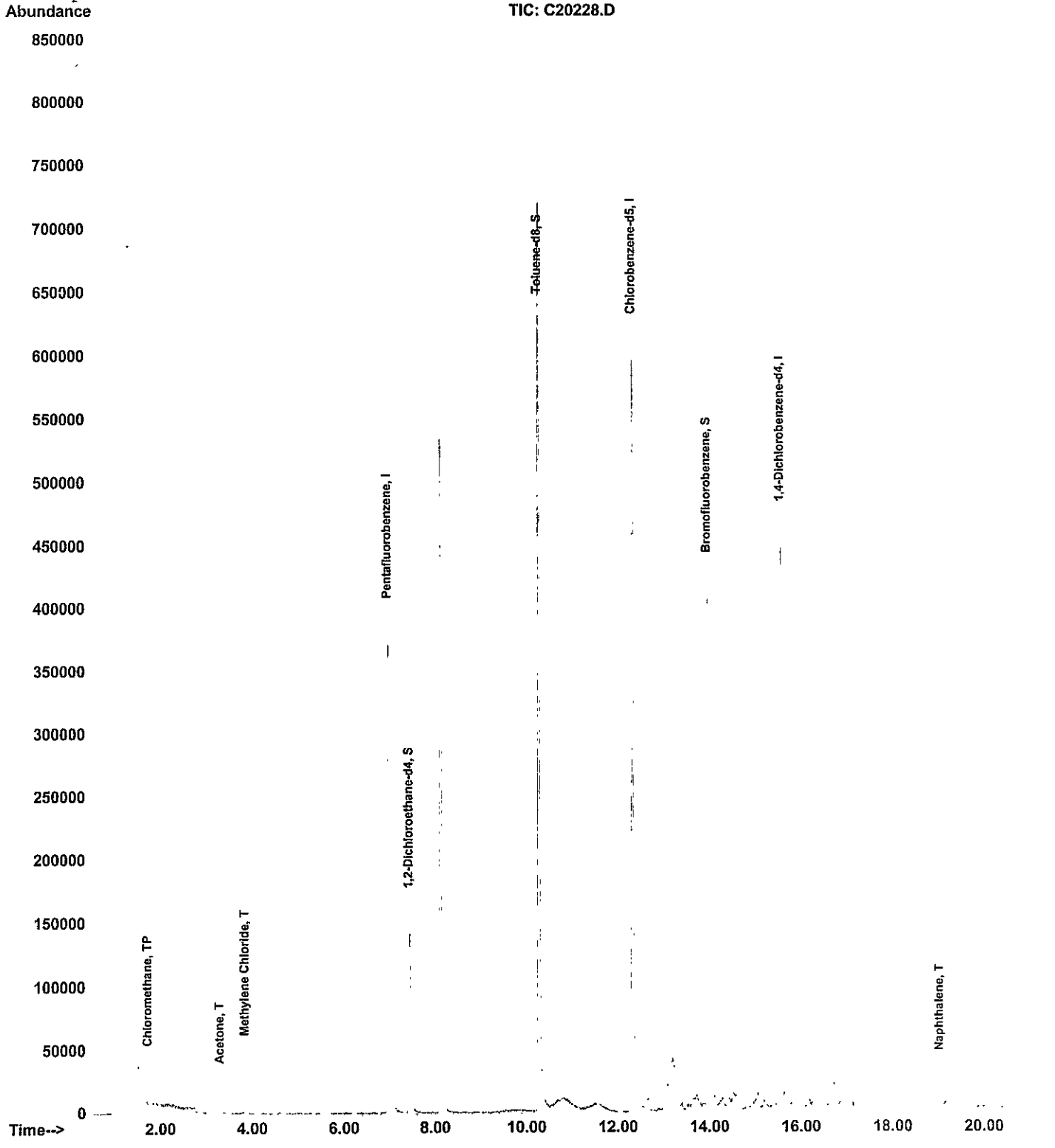
VRR
6.1.01

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\053101\C20228.D Vial: 1
Acq On : 05/31/01 15:39 Operator: JJ/VRR/DAT
Sample : AC14038 25ml DF=1 Inst : HP013
Misc : 27988/C05310125 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 1 9:01 2001 Quant Results File: C05310125.RES

Method : C:\HPCHEM\1\DATA\053101\05310125.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Wed May 30 13:53:00 2001
Response via : Initial Calibration



LSC Area Percent Report

Data File : C:\HPCHEM\1\DATA\053101\C20228.D Vial: 15
Acq On : 05/31/01 15:39 Operator: JP/VBR/DAT
Sample : AC14038 25ml DF=1 Inst : HP01
Misc : 27988/C05310125 Multiplr: 1.00
MS Integration Params: LSCINT.P

Method : C:\HPCHEM\1\DATA\053101\05310125.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.02 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Signal : TIC

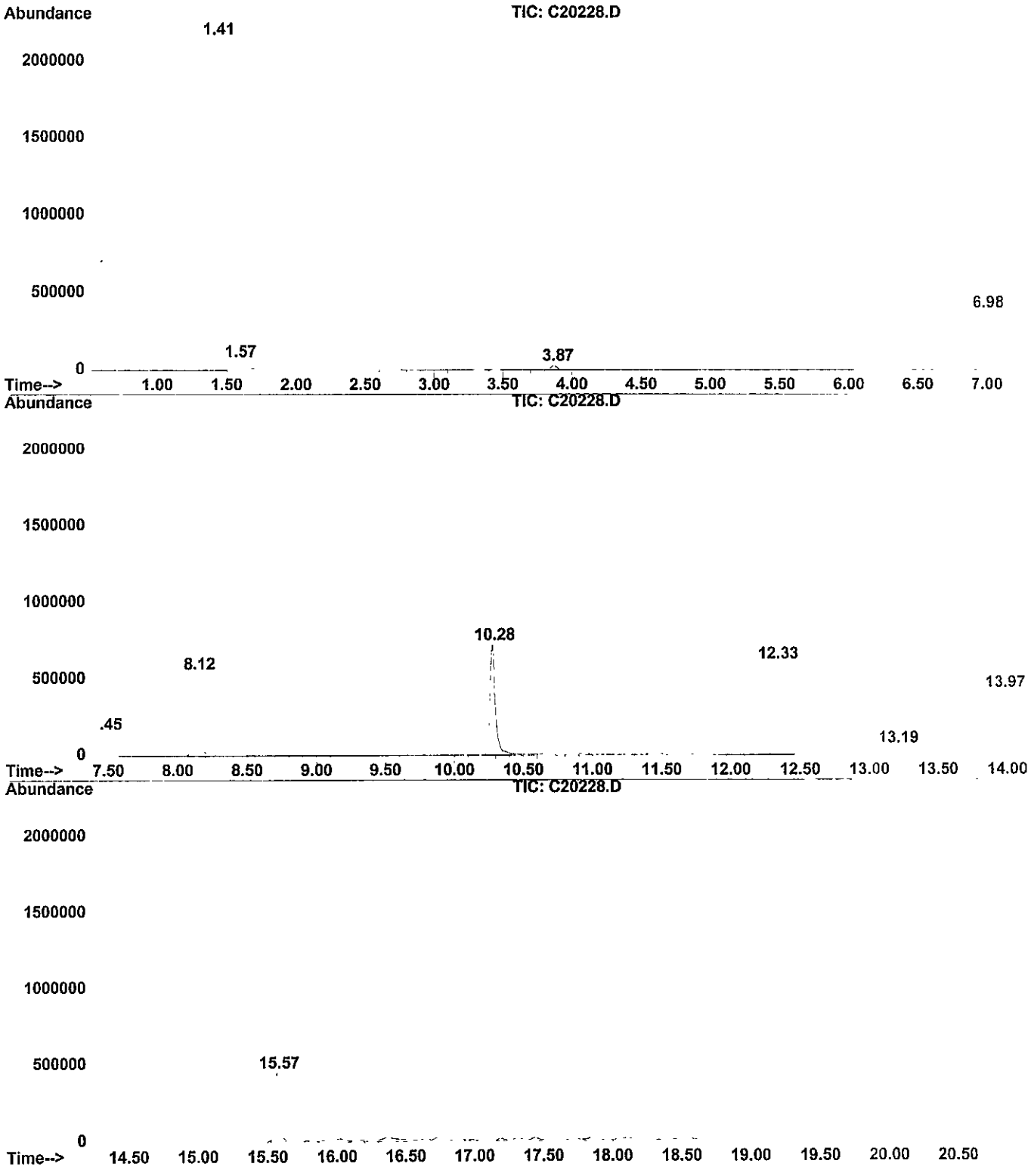
peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	peak area	peak % max.	% of total
1	1.412	131	148	163	rBV	2257907	6999706	100.00%	43.477%
2	1.569	167	174	195	rVB2	47266	239959	3.43%	1.490%
3	3.866	547	556	570	rVB	26056	76762	1.10%	0.477%
4	6.975	1061	1073	1086	rBV	371848	1165765	16.65%	7.241%
5	7.450	1141	1152	1164	rBV2	141961	413116	5.90%	2.566%
6	8.124	1251	1264	1288	rBV	535281	1500048	21.43%	9.317%
7	10.277	1610	1622	1645	rBV	720660	1982931	28.33%	12.317%
8	12.328	1952	1963	1985	rBV	597107	1548896	22.13%	9.621%
9	13.194	2090	2107	2108	rVV5	23036	88634	1.27%	0.551%
10	13.970	2226	2236	2253	rBV	403083	1010324	14.43%	6.275%
11	15.570	2491	2502	2512	rBV	443940	1073542	15.34%	6.668%

Sum of corrected areas: 16099683

C20228.D 05310125.M Fri Jun 01 09:01:29 2001

LSC Report - Integrated Chromatogram

File : C:\HPCHEM\1\DATA\053101\C20228.D
Operator : JP/VRR/DAT
Acquired : 31 May 2001 15:39 using AcqMethod 05310125
Instrument : HP013
Sample Name: AC14038 25ml DF=1
Misc Info : 27988/C05310125
Vial Number: 15
Quant File :05310125.RES (RTE Integrator)



C20228.D 05310125.M Fri Jun 01 09:01:30 2001

Tentatively Identified Compound (LSC) summary

Operator ID: JP/VRR/DAT Date Acquired: 31 May 2001 15:39
Data File: C:\HPCHEM\1\DATA\053101\C20228.D
Name: AC14038 25ml DF=1
Misc: 27988/C05310125
Method: c:\hpchem\1\data\053101\05310125.M (RTE Integrator)
Title: 8260 CALIBRATION FOR 25ML WATER
Library Searched: C:\DATABASE\NIST98.L

TIC Top Hit name	RT	EstConc	Units	Area	IntStd	ISRT	ISArea	ISConc

C20228.D 05310125.M Fri Jun 01 09:01:30 2001

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\053101\C20229.D Vial: 1
Acq On : 05/31/01 16:05 Operator: [illegible]/VRR/DAT
Sample : AC14039 25ml DF=1 Inst : HP013
Misc : 27988/C05310125 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 1 9:02 2001 Quant Results File: 05310125.RES

Quant Method : c:\hpchem\1\data\053101\05310125.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Wed May 30 13:53:00 2001
Response via : Initial Calibration
DataAcq Meth : 05310125

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	6.98	168	348461	10.00	ug\L	0.02
45) Chlorobenzene-d5	12.33	117	439331	10.00	ug\L	0.01
61) 1,4-Dichlorobenzene-d4	15.57	152	148863	10.00	ug\L	0.00
88) 1.4-Difluorobenzene	0.00	116	0m	10.00	ug\L	-8.12
System Monitoring Compounds						
32) 1,2-Dichloroethane-d4	7.45	65	163384	11.81	ug\L	0.01
Spiked Amount 10.000	Range 80 - 120		Recovery = 118.10%			
46) Toluene-d8	10.28	98	714885	11.08	ug\L	0.01
Spiked Amount 10.000	Range 87 - 104		Recovery = 110.80%#			
66) Bromofluorobenzene	13.97	95	199427	11.25	ug\L	0.00
Spiked Amount 10.000	Range 84 - 110		Recovery = 112.50%#			
Target Compounds						Qvalue
3) Chloromethane	1.75	50	23664	1.31	ug\L	961.3J
16) Methylene Chloride	3.86	86	10019	1.14	ug\L	961.1J

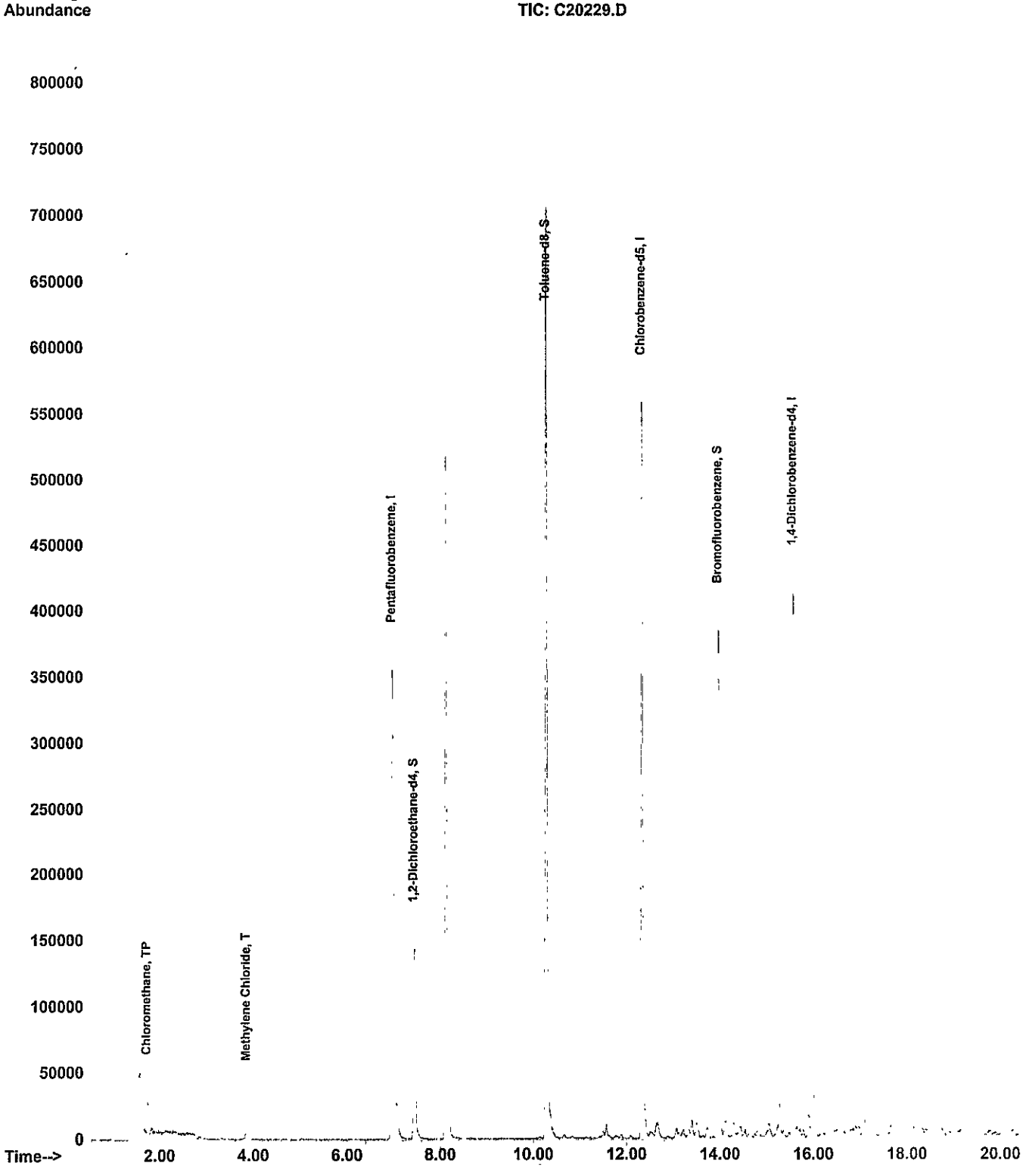
VRR
6.1.01

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\053101\C20229.D Vial: 1
Acq On : 05/31/01 16:05 Operator: JP/VRR/DAT
Sample : AC14039 25ml DF=1 Inst : HP013
Misc : 27988/C05310125 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 1 9:02 2001 Quant Results File: 05310125.RES

Method : C:\HPCHEM\1\DATA\053101\05310125.M (RTE Integrato
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Wed May 30 13:53:00 2001
Response via : Initial Calibration



LSC Area Percent Report

Data File : C:\HPCHEM\1\DATA\053101\C20229.D Vial: 16
Acq On : 05/31/01 16:05 Operator: JP/VRR/DAT
Sample : AC14039 25ml DF=1 Inst : HP01
Misc : 27988/C05310125 Multiplr: 1.00
MS Integration Params: LSCINT.P

Method : C:\HPCHEM\1\DATA\053101\05310125.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.02 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Signal : TIC

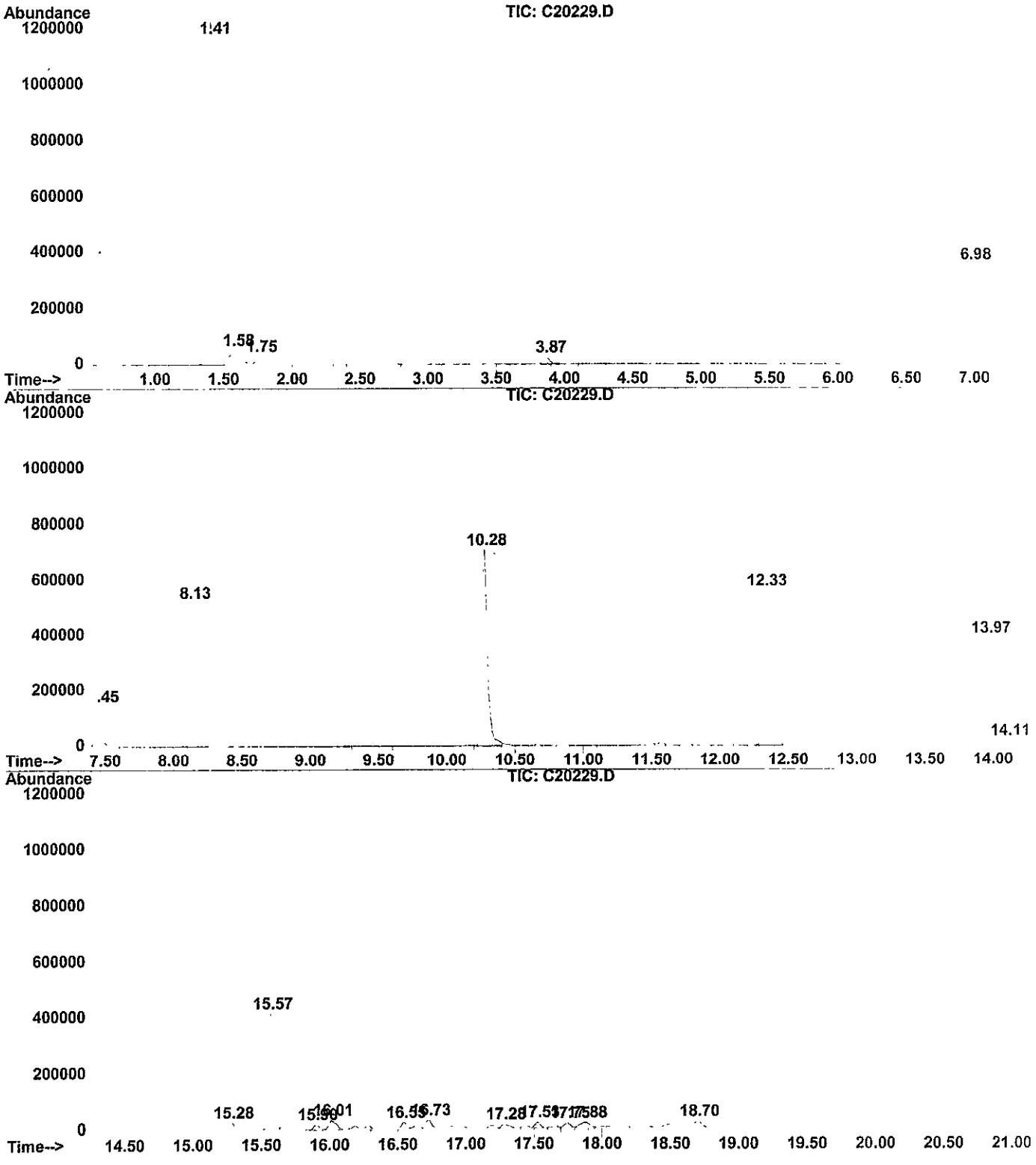
peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	peak area	peak % max.	% of total
1	1.409	133	147	163	rBV	1226204	3756886	100.00%	28.642%
2	1.578	164	175	190	rVB	44297	208439	5.55%	1.589%
3	1.746	198	203	210	rVB	24682	42132	1.12%	0.321%
4	3.869	548	556	571	rVB2	23742	70973	1.89%	0.541%
5	6.978	1060	1073	1084	rBV	356051	1108062	29.49%	8.448%
6	7.454	1139	1152	1168	rBV2	144192	423580	11.27%	3.229%
7	8.127	1253	1264	1285	rBV	518533	1467291	39.06%	11.187%
8	10.280	1611	1622	1643	rBV	707369	1947458	51.84%	14.847%
9	12.331	1950	1963	1984	rBV	559810	1476142	39.29%	11.254%
10	13.973	2225	2236	2252	rBV	385591	969056	25.79%	7.388%
11	14.111	2252	2259	2272	rVB	13252	49977	1.33%	0.381%
12	15.284	2449	2454	2463	rVB	22697	54404	1.45%	0.415%
13	15.573	2491	2502	2512	rBV	412382	963455	25.65%	7.345%
14	15.897	2548	2556	2567	rBV6	17463	51841	1.38%	0.395%
15	16.012	2567	2575	2588	rVB6	31949	111348	2.96%	0.849%
16	16.547	2656	2664	2672	rVB	20801	49868	1.33%	0.380%
17	16.727	2686	2694	2703	rBV6	27960	79259	2.11%	0.604%
18	17.281	2779	2786	2798	rVB6	14037	47005	1.25%	0.358%
19	17.527	2820	2827	2834	rVB3	20635	50496	1.34%	0.385%
20	17.750	2854	2864	2870	rBV3	15943	42353	1.13%	0.323%
21	17.876	2870	2885	2899	rVV10	17916	85198	2.27%	0.650%
22	18.700	3016	3022	3032	rVB5	20192	61373	1.63%	0.468%

Sum of corrected areas: 13116596

C20229.D 05310125.M Fri Jun 01 09:03:08 2001

LSC Report - Integrated Chromatogram

File : C:\HPCHEM\1\DATA\053101\C20229.D
Operator : JP/VRR/DAT
Acquired : 31 May 2001 16:05 using AcqMethod 05310125
Instrument : HP013
Sample Name: AC14039 25ml DF=1
Misc Info : 27988/C05310125
Vial Number: 16
Quant File :05310125.RES (RTE Integrator)



C20229.D 05310125.M Fri Jun 01 09:03:08 2001

Data File : C:\HPCHEM\1\DATA\053101\C20229.D Vial: 16
Acq On : 05/31/01 16:05 Operator: JP/VRR/DAT
Sample : AC14039 25ml DF=1 Inst : HP013
Misc : 27988/C05310125 Multiplr: 1.00
MS Integration Params: LSCINT.P

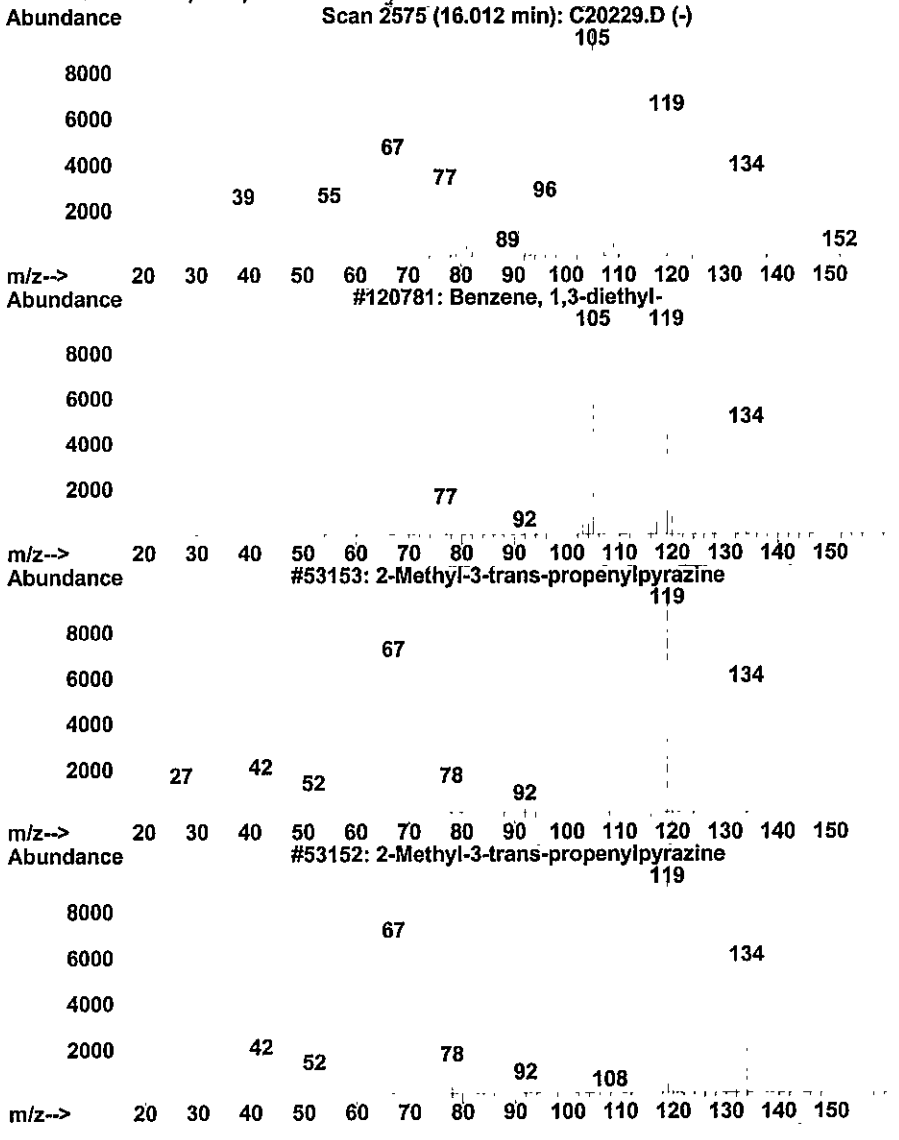
Quant Method : c:\hpchem\1\data\053101\05310125.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Library : C:\DATABASE\NIST98.L

****

Peak Number 1 Benzene, 1,3-diethyl- Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
16.01	1.16 ug\L	111348	1,4-Dichlorobenzene-d4	15.57

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 1,3-diethyl-	134	C10H14	000141-93-5	46
2	2-Methyl-3-trans-propenylpyrazine	134	C8H10N2	115610-67-8	41
3	2-Methyl-3-trans-propenylpyrazine	134	C8H10N2	100012-58-6	41
4	Benzene, 1,3-diethyl-	134	C10H14	000141-93-5	41



m/z 105.05 100.00%

15.60 15.80 16.00 16.20 16.40
m/z 119.15 61.99%

15.60 15.80 16.00 16.20 16.40
m/z 67.10 43.02%

15.60 15.80 16.00 16.20 16.40
m/z 134.20 35.33%

15.60 15.80 16.00 16.20 16.40
m/z 77.05 29.79%

15.60 15.80 16.00 16.20 16.40

Tentatively Identified Compound (LSC) summary

Operator ID: JP/VRR/DAT Date Acquired: 31 May 2001 16:05
Data File: C:\HPCHEM\1\DATA\053101\C20229.D
Name: AC14039 25ml DF=1
Misc: 27988/C05310125
Method: c:\hpchem\1\data\053101\05310125.M (RTE Integrator)
Title: 8260 CALIBRATION FOR 25ML WATER
Library Searched: C:\DATABASE\NIST98.L

TIC Top Hit name	RT	EstConc	Units	Area	IntStd	ISRT	ISArea	ISConc
Benzene, 1,3-diethyl	16.01	1.2	ug\L	111348	ISTD04	15.57	963455	10.0

C20229.D 05310125.M Fri Jun 01 09:03:09 2001

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\053101\C20230.D Vial: 1
Acq On : 05/31/01 16:30 Operator: JP/VRR/DAT
Sample : AC14040 25ml DF=1 Inst : HP013
Misc : 27988/C05310125 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 1 9:04 2001 Quant Results File: C5310125.RES

Quant Method : c:\hpchem\1\data\053101\05310125.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Wed May 30 13:53:00 2001
Response via : Initial Calibration
DataAcq Meth : 05310125

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	6.98	168	367245	10.00	ug\L	0.02
45) Chlorobenzene-d5	12.33	117	461317	10.00	ug\L	0.01
61) 1,4-Dichlorobenzene-d4	15.57	152	160476	10.00	ug\L	0.00
88) 1.4-Difluorobenzene	0.00	116	0m	10.00	ug\L	-8.12
System Monitoring Compounds						
32) 1,2-Dichloroethane-d4	7.45	65	170506	11.69	ug\L	0.02
Spiked Amount 10.000	Range 80 - 120		Recovery = 116.90%			
46) Toluene-d8	10.28	98	723800	10.69	ug\L	0.01
Spiked Amount 10.000	Range 87 - 104		Recovery = 106.90%#			
66) Bromofluorobenzene	13.97	95	203704	10.66	ug\L	0.00
Spiked Amount 10.000	Range 84 - 110		Recovery = 106.60%			
Target Compounds						Qvalue
3) Chloromethane	1.75	50	17801	0.94	ug\L	93 0.945
16) Methylene Chloride	3.87	86	13474	1.45	ug\L	98 1.5
18) MethylTertButylEther	4.25	73	9598	0.53	ug\L #	82

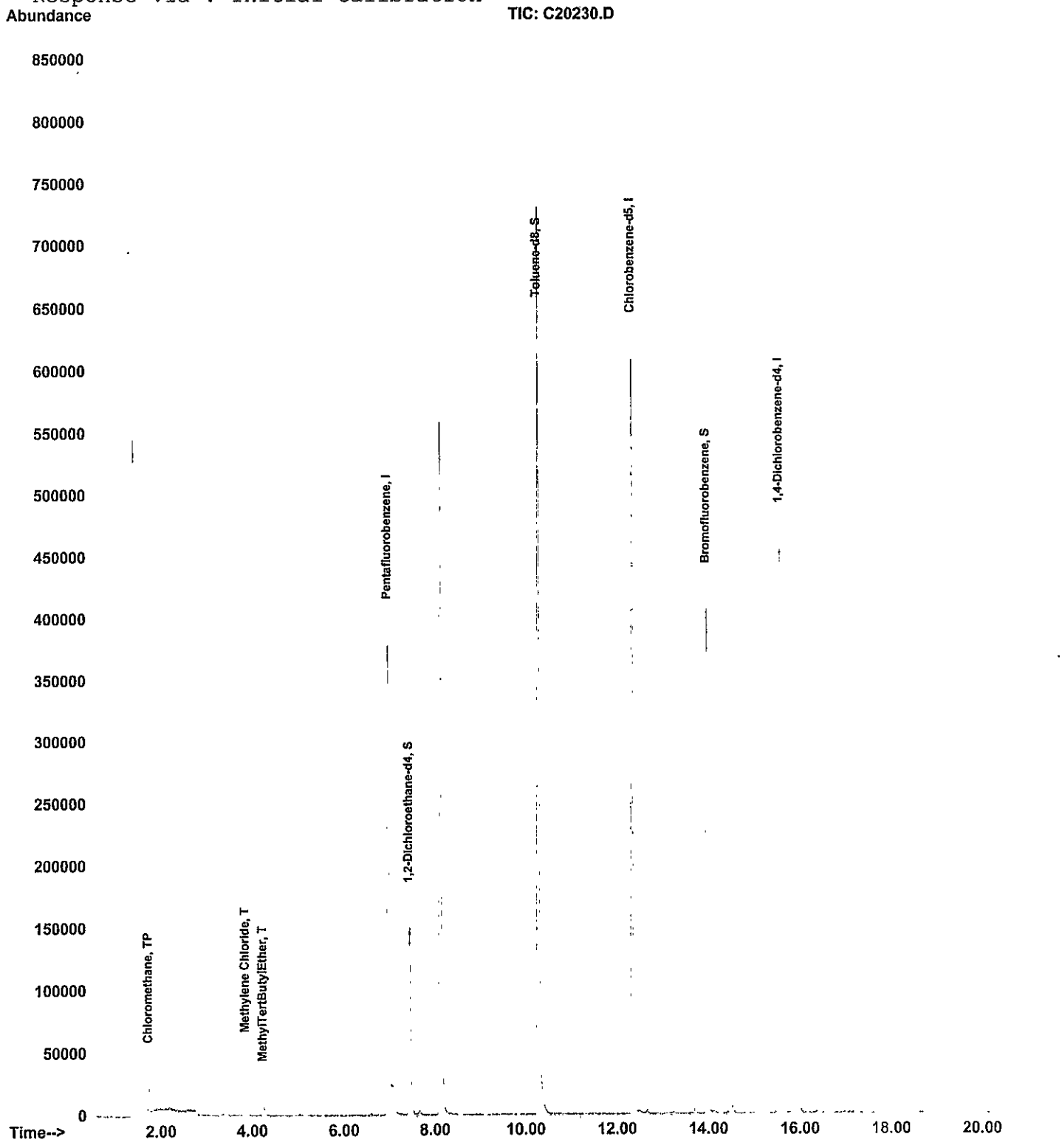
VRR
6.1.01

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\053101\C20230.D Vial: 1
Acq On : 05/31/01 16:30 Operator: JP/VRR/DAT
Sample : AC14040 25ml DF=1 Inst : HP013
Misc : 27988/C05310125 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 1 9:04 2001 Quant Results File: C05310125.RES

Method : C:\HPCHEM\1\DATA\053101\05310125.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Wed May 30 13:53:00 2001
Response via : Initial Calibration



LSC Area Percent Report

Data File : C:\HPCHEM\1\DATA\053101\C20230.D Vial: 1
Acq On : 05/31/01 16:30 Operator: JP/\ R/DAT
Sample : AC14040 25ml DF=1 Inst : HP01
Misc : 27988/C05310125 Multiplr: 1.0
MS Integration Params: LSCINT.P

Method : C:\HPCHEM\1\DATA\053101\05310125.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of larges Peak
Start Thrs: 0.02 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Signal : TIC

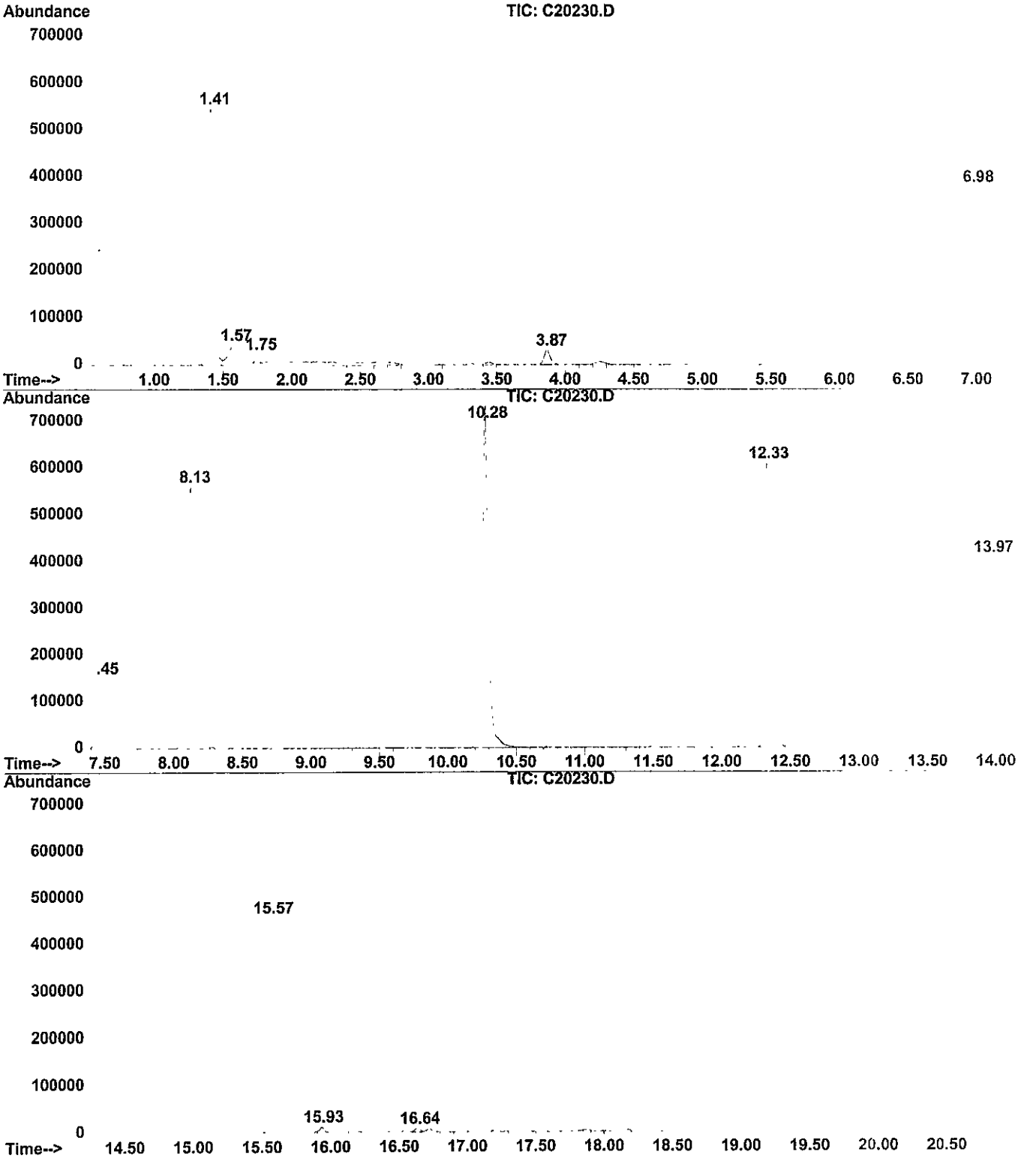
peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	peak area	peak % max.	% of total
1	1.409	132	147	161	rBV	545867	1696836	85.10%	15.957%
2	1.565	163	173	175	rBV	31011	70323	3.53%	0.661%
3	1.745	198	203	210	rVB	18265	30637	1.54%	0.288%
4	3.868	546	556	569	rVB3	30298	92540	4.64%	0.870%
5	6.978	1061	1073	1084	rBV2	379299	1168366	58.59%	10.987%
6	7.453	1142	1152	1171	rVB	149929	432321	21.68%	4.065%
7	8.127	1253	1264	1287	rBV	559417	1530643	76.76%	14.394%
8	10.280	1612	1622	1659	rBV	732521	1993993	100.00%	18.751%
9	12.330	1952	1963	1985	rBV	609734	1545160	77.49%	14.531%
10	13.972	2226	2236	2251	rBV2	407534	977165	49.01%	9.189%
11	15.572	2492	2502	2512	rBV	455612	1050635	52.69%	9.880%
12	15.933	2556	2562	2570	rVB2	11207	24539	1.23%	0.231%
13	16.637	2670	2679	2687	rVV4	7253	20740	1.04%	0.195%

Sum of corrected areas: 10633898

C20230.D 05310125.M Fri Jun 01 09:05:19 2001

LSC Report - Integrated Chromatogram

File : C:\HPCHEM\1\DATA\053101\C20230.D
Operator : JP/VRR/DAT
Acquired : 31 May 2001 16:30 using AcqMethod 05310125
Instrument : HP013
Sample Name: AC14040 25ml DF=1
Misc Info : 27988/C05310125
Vial Number: 1
Quant File :05310125.RES (RTE Integrator)



C20230.D 05310125.M Fri Jun 01 09:05:20 2001

Tentatively Identified Compound (LSC) summary

Operator ID: JP/VRR/DAT Date Acquired: 31 May 2001 16:30
Data File: C:\HPCHEM\1\DATA\053101\C20230.D
Name: AC14040 25ml DF=1
Misc: 27988/C05310125
Method: c:\hpchem\1\data\053101\05310125.M (RTE Integrator)
Title: 8260 CALIBRATION FOR 25ML WATER
Library Searched: C:\DATABASE\NIST98.L

TIC Top Hit name	RT	EstConc	Units	Area	IntStd	ISRT	ISArea	ISConc

C20230.D 05310125.M Fri Jun 01 09:05:20 2001

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\053101\C20232.D Vial: 3
Acq On : 05/31/01 17:22 Operator: JP/VRR/DAT
Sample : AC14041 25ml DF=1 Inst : HP013
Misc : 27988/C05310125 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 1 9:06 2001 Quant Results File: C05310125.RES

Quant Method : c:\hpchem\1\data\053101\05310125.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Wed May 30 13:53:00 2001
Response via : Initial Calibration
DataAcq Meth : 05310125

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	6.98	168	339300	10.00	ug\L	0.02
45) Chlorobenzene-d5	12.34	117	416524	10.00	ug\L	0.02
61) 1,4-Dichlorobenzene-d4	15.57	152	125617	10.00	ug\L	0.00
88) 1.4-Difluorobenzene	0.00	116	0m	10.00	ug\L	-8.12
System Monitoring Compounds						
32) 1,2-Dichloroethane-d4	7.45	65	163226	12.12	ug\L	0.02
Spiked Amount 10.000	Range 80 - 120		Recovery = 121.20%#			
46) Toluene-d8	10.28	98	691580	11.31	ug\L	0.01
Spiked Amount 10.000	Range 87 - 104		Recovery = 113.10%#			
66) Bromofluorobenzene	13.98	95	166987	11.17	ug\L	0.01
Spiked Amount 10.000	Range 84 - 110		Recovery = 111.70%#			
Target Compounds						Qvalue
3) Chloromethane	1.75	50	9046	0.52	ug\L	99 0.52J
16) Methylene Chloride	3.87	86	24145	2.81	ug\L	97 2.8

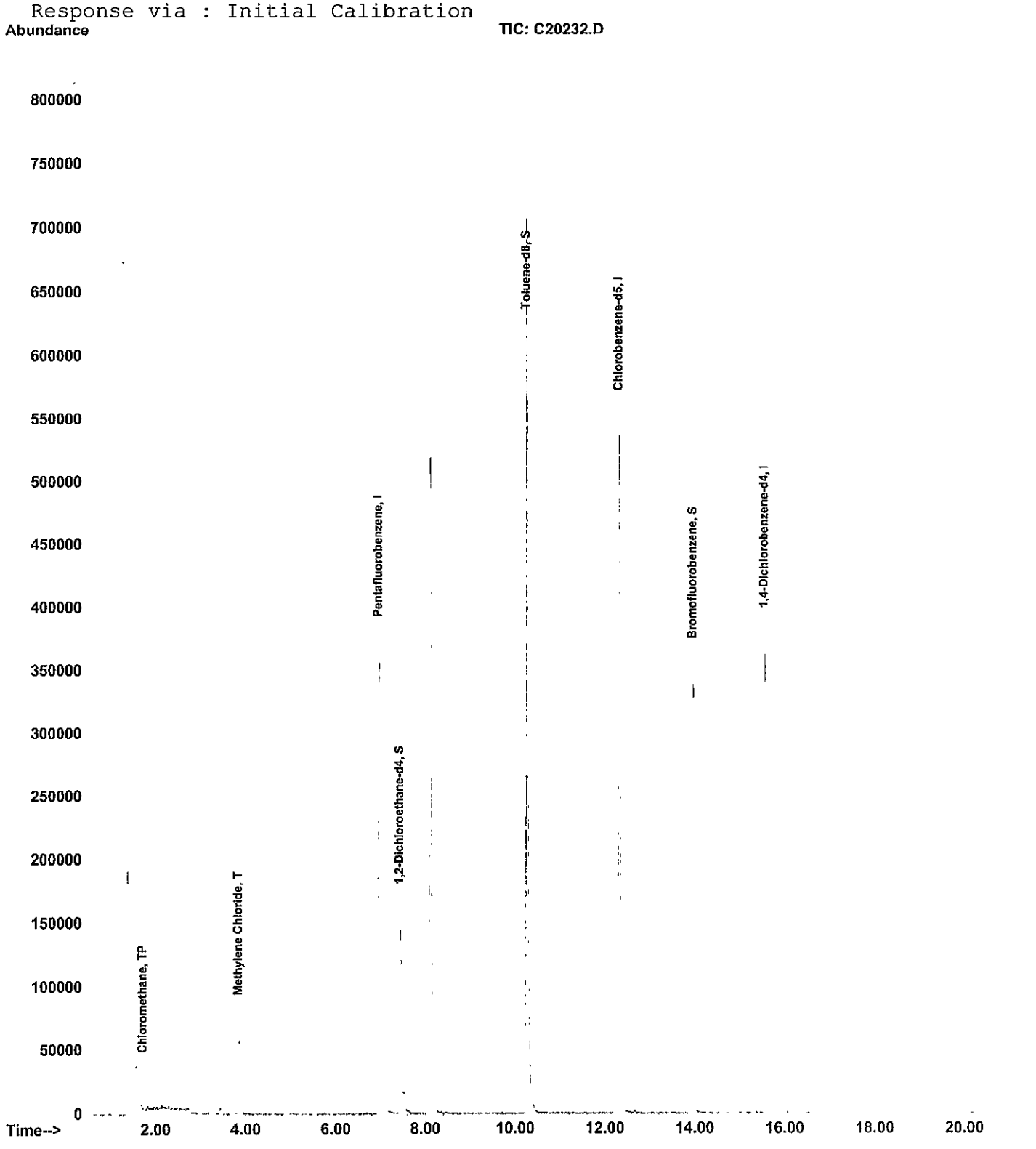
VRR
6.1.01

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\053101\C20232.D Vial: 3
Acq On : 05/31/01 17:22 Operator: JP/VRR/DAT
Sample : AC14041 25ml DF=1 Inst : HP013
Misc : 27988/C05310125 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 1 9:06 2001 Quant Results File: 05310125.RES

Method : C:\HPCHEM\1\DATA\053101\05310125.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Wed May 30 13:53:00 2001
Response via : Initial Calibration



LSC Area Percent Report

Data File : C:\HPCHEM\1\DATA\053101\C20232.D Vial: 3
Acq On : 05/31/01 17:22 Operator: JP/\ R/DAT
Sample : AC14041 25ml DF=1 Inst : HP01
Misc : 27988/C05310125 Multiplr: 1.0
MS Integration Params: LSCINT.P

Method : C:\HPCHEM\1\DATA\053101\05310125.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of larges Peak
Start Thrs: 0.02 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Signal : TIC

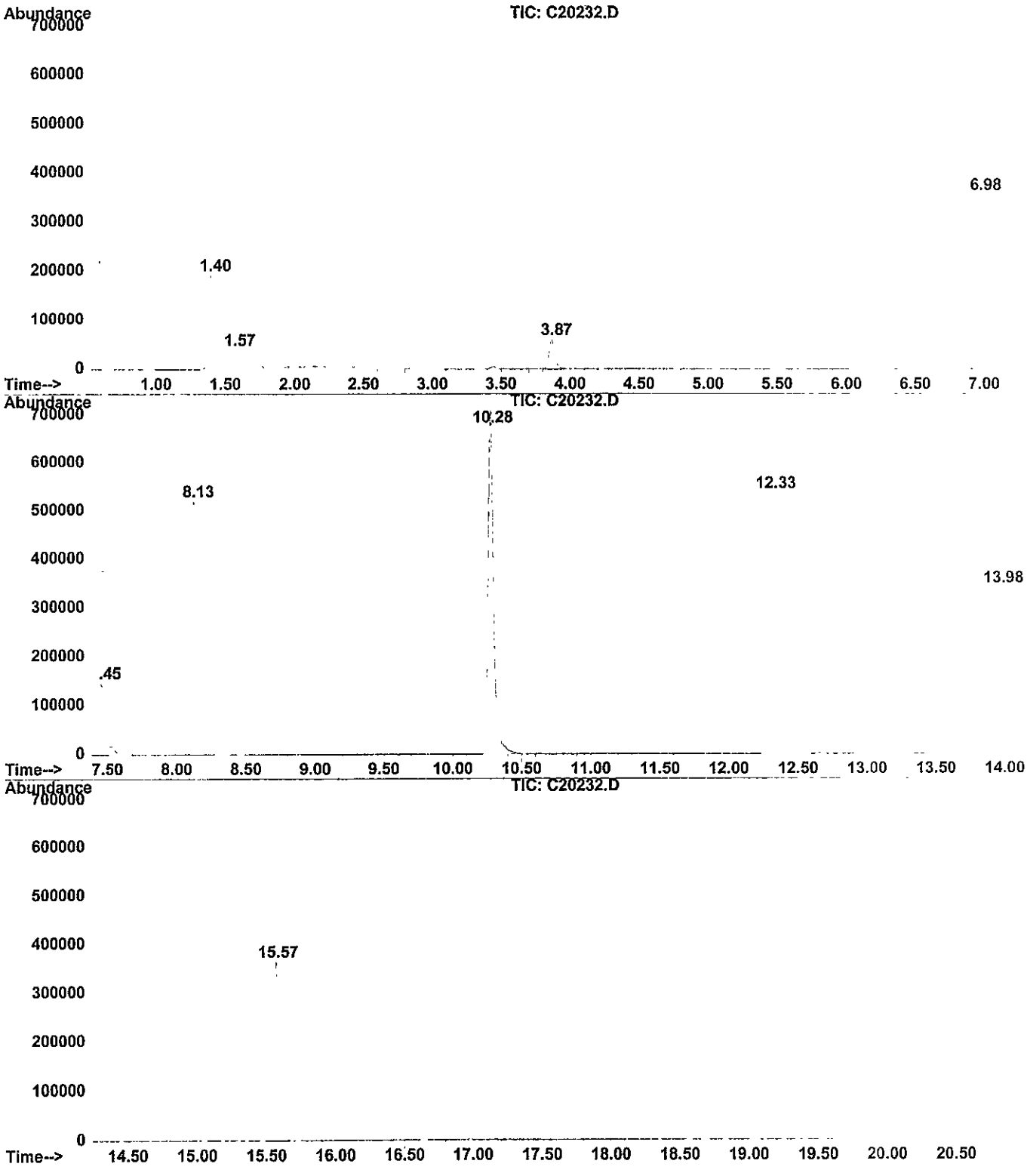
peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	peak area	peak % max.	% of total
1	1.396	136	145	162	rBV	189843	522059	27.34%	5.916%
2	1.571	162	174	189	rBV	33988	156219	8.18%	1.770%
3	3.868	545	556	571	rVB2	58237	172207	9.02%	1.951%
4	6.977	1060	1073	1086	rBV2	357212	1109644	58.11%	12.574%
5	7.453	1141	1152	1161	rBV3	145532	420495	22.02%	4.765%
6	8.126	1252	1264	1288	rBV2	520147	1436299	75.21%	16.276%
7	10.279	1612	1622	1650	rBV	707956	1909696	100.00%	21.640%
8	12.330	1952	1963	1985	rBV	537447	1454875	76.18%	16.486%
9	13.978	2227	2237	2250	rBV	339519	809107	42.37%	9.169%
10	15.572	2492	2502	2518	rBV	364232	834227	43.68%	9.453%

Sum of corrected areas: 8824828

C20232.D 05310125.M Fri Jun 01 09:06:55 2001

LSC Report - Integrated Chromatogram

File : C:\HPCHEM\1\DATA\053101\C20232.D
Operator : JP/VRR/DAT
Acquired : 31 May 2001 17:22 using AcqMethod 05310125
Instrument : HP013
Sample Name: AC14041 25ml DF=1
Misc Info : 27988/C05310125
Vial Number: 3
Quant File :05310125.RES (RTE Integrator)



C20232.D 05310125.M Fri Jun 01 09:06:56 2001

Tentatively Identified Compound (LSC) summary

Operator ID: JP/VRR/DAT Date Acquired: 31 May 2001 17:22
Data File: C:\HPCHEM\1\DATA\053101\C20232.D
Name: AC14041 25ml DF=1
Misc: 27988/C05310125
Method: c:\hpchem\1\data\053101\05310125.M (RTE Integrator)
Title: 8260 CALIBRATION FOR 25ML WATER
Library Searched: C:\DATABASE\NIST98.L

TIC Top Hit name	RT	EstConc	Units	Area	IntStd	ISRT	ISArea	ISConc

C20232.D 05310125.M Fri Jun 01 09:06:56 2001

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\053101\C20236.D Vial: 7
Acq On : 05/31/01 19:05 Operator: JP/VRR/DAT
Sample : AC14042 25ml DF=1 Inst : HP013
Misc : 27988/C05310125 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 1 9:08 2001 Quant Results File: C05310125.RES

Quant Method : c:\hpchem\1\data\053101\05310125.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Wed May 30 13:53:00 2001
Response via : Initial Calibration
DataAcq Meth : 05310125

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Pentafluorobenzene	6.98	168	299930	10.00 ug\L	0.02
45) Chlorobenzene-d5	12.33	117	366028	10.00 ug\L	0.01
61) 1,4-Dichlorobenzene-d4	15.57	152	116093	10.00 ug\L	0.00
88) 1.4-Difluorobenzene	0.00	116	0m	10.00 ug\L	-8.12
System Monitoring Compounds					
32) 1,2-Dichloroethane-d4	7.45	65	155367	13.05 ug\L	0.02
Spiked Amount 10.000	Range 80 - 120		Recovery = 130.50%#		
46) Toluene-d8	10.28	98	607742	11.31 ug\L	0.01
Spiked Amount 10.000	Range 87 - 104		Recovery = 113.00%#		
66) Bromofluorobenzene	13.97	95	155195	11.23 ug\L	0.00
Spiked Amount 10.000	Range 84 - 110		Recovery = 112.30%#		
Target Compounds					Qvalue
16) Methylene Chloride	3.88	86	13044	1.72 ug\L	96 1.7

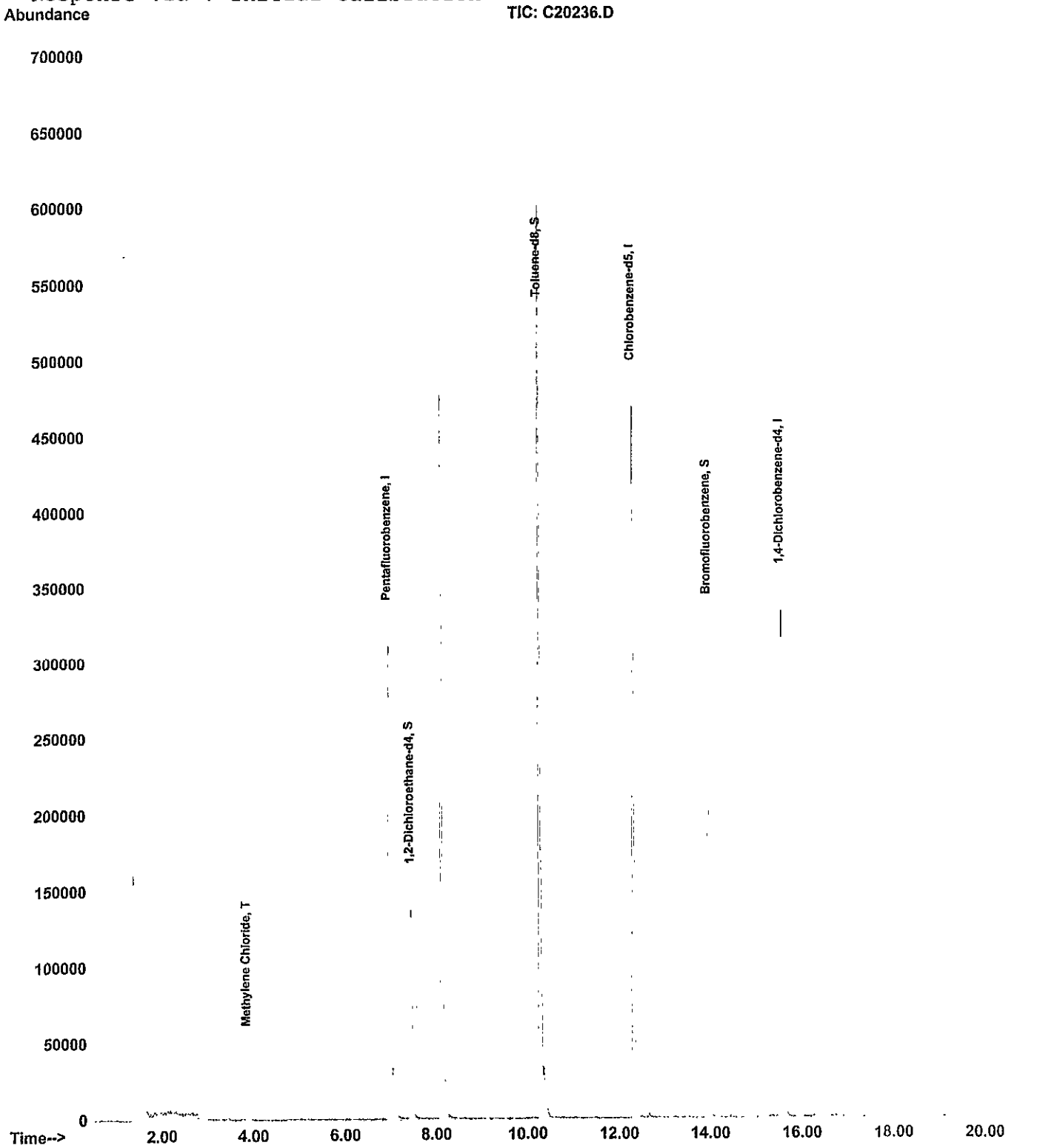
VRR
6.1.01

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\053101\C20236.D Vial: 7
Acq On : 05/31/01 19:05 Operator: JP/VRR/DAT
Sample : AC14042 25ml DF=1 Inst : HP013
Misc : 27988/C05310125 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 1 9:08 2001 Quant Results File: C05310125.RES

Method : C:\HPCHEM\1\DATA\053101\05310125.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Wed May 30 13:53:00 2001
Response via : Initial Calibration



LSC Area Percent Report

Data File : C:\HPCHEM\1\DATA\053101\C20236.D Vial: 7
Acq On : 05/31/01 19:05 Operator: JP/VRR/DAT
Sample : AC14042 25ml DF=1 Inst : HP01
Misc : 27988/C05310125 Multiplr: 1.00
MS Integration Params: LSCINT.P

Method : C:\HPCHEM\1\DATA\053101\05310125.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.02 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Signal : TIC

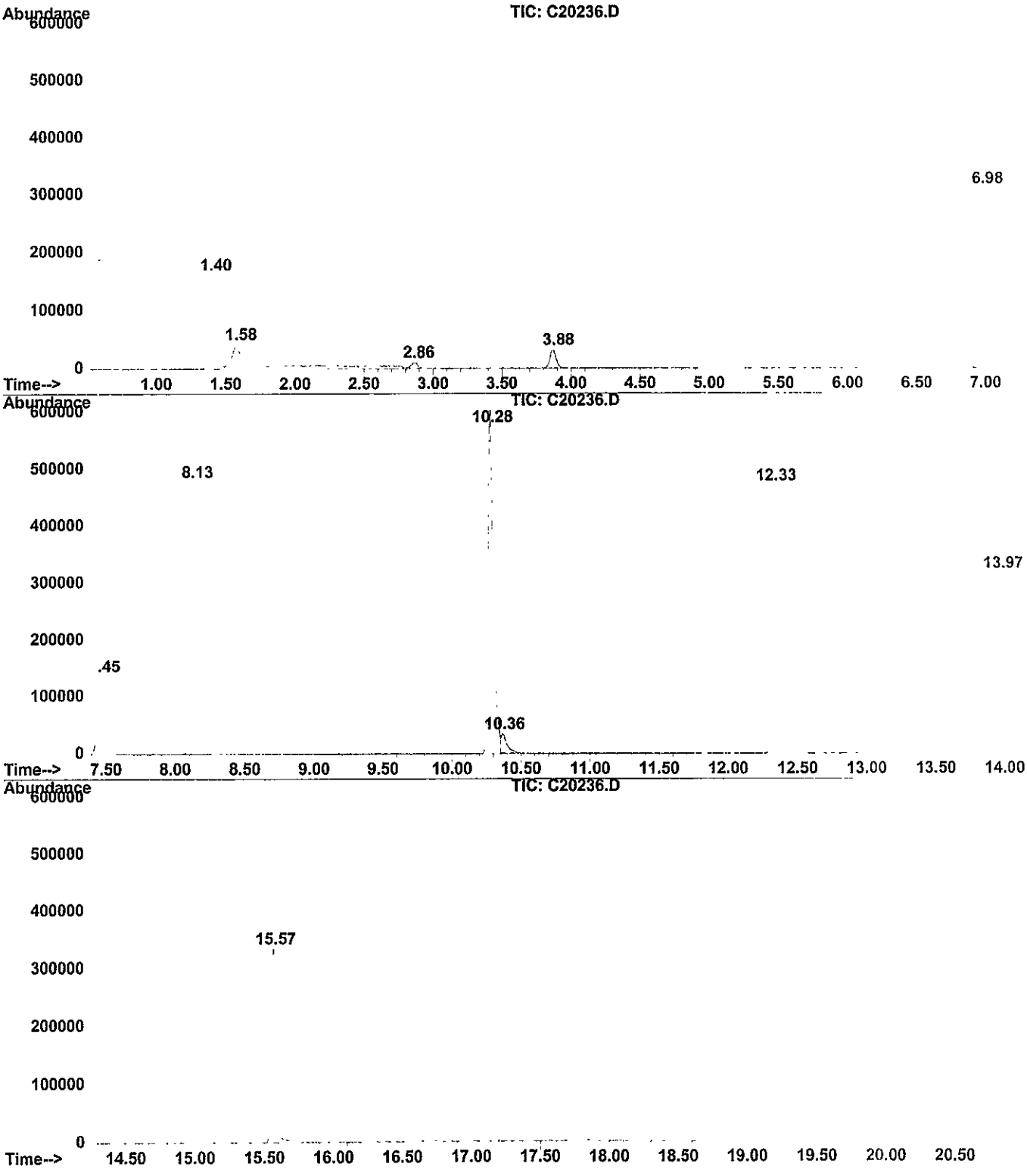
peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	peak area	peak % max.	% of total
1	1.397	132	146	161	rBV	161752	463812	28.65%	5.803%
2	1.578	163	176	190	rVV	37786	154023	9.51%	1.927%
3	2.865	380	390	399	rVB4	9214	26994	1.67%	0.338%
4	3.875	547	558	575	rVB2	31313	94057	5.81%	1.177%
5	6.978	1062	1074	1085	rBV	312199	973637	60.13%	12.182%
6	7.454	1142	1153	1165	rBV	137890	388095	23.97%	4.856%
7	8.127	1252	1265	1287	rBV	478346	1366012	84.37%	17.092%
8	10.280	1613	1623	1635	rBV	602842	1619115	100.00%	20.259%
9	10.364	1635	1637	1656	rVB2	32894	93718	5.79%	1.173%
10	12.331	1953	1964	1987	rBV	470970	1267781	78.30%	15.863%
11	13.973	2226	2237	2251	rBV	315296	761742	47.05%	9.531%
12	15.573	2493	2503	2513	rBV	334520	783124	48.37%	9.799%

Sum of corrected areas: 7992110

C20236.D 05310125.M Fri Jun 01 09:09:14 2001

LSC Report - Integrated Chromatogram

File : C:\HPCHEM\1\DATA\053101\C20236.D
Operator : JP/VRR/DAT
Acquired : 31 May 2001 19:05 using AcqMethod 05310125
Instrument : HP013
Sample Name: AC14042 25ml DF=1
Misc Info : 27988/C05310125
Vial Number: 7
Quant File :05310125.RES (RTE Integrator)



C20236.D 05310125.M Fri Jun 01 09:09:14 2001

Data File : C:\HPCHEM\1\DATA\053101\C20236.D Vial: 7
Acq On : 05/31/01 19:05 Operator: JP/VRR/DAT
Sample : AC14042 25ml DF=1 Inst : HP013
Misc : 27988/C05310125 Multiplr: 1.00
MS Integration Params: LSCINT.P

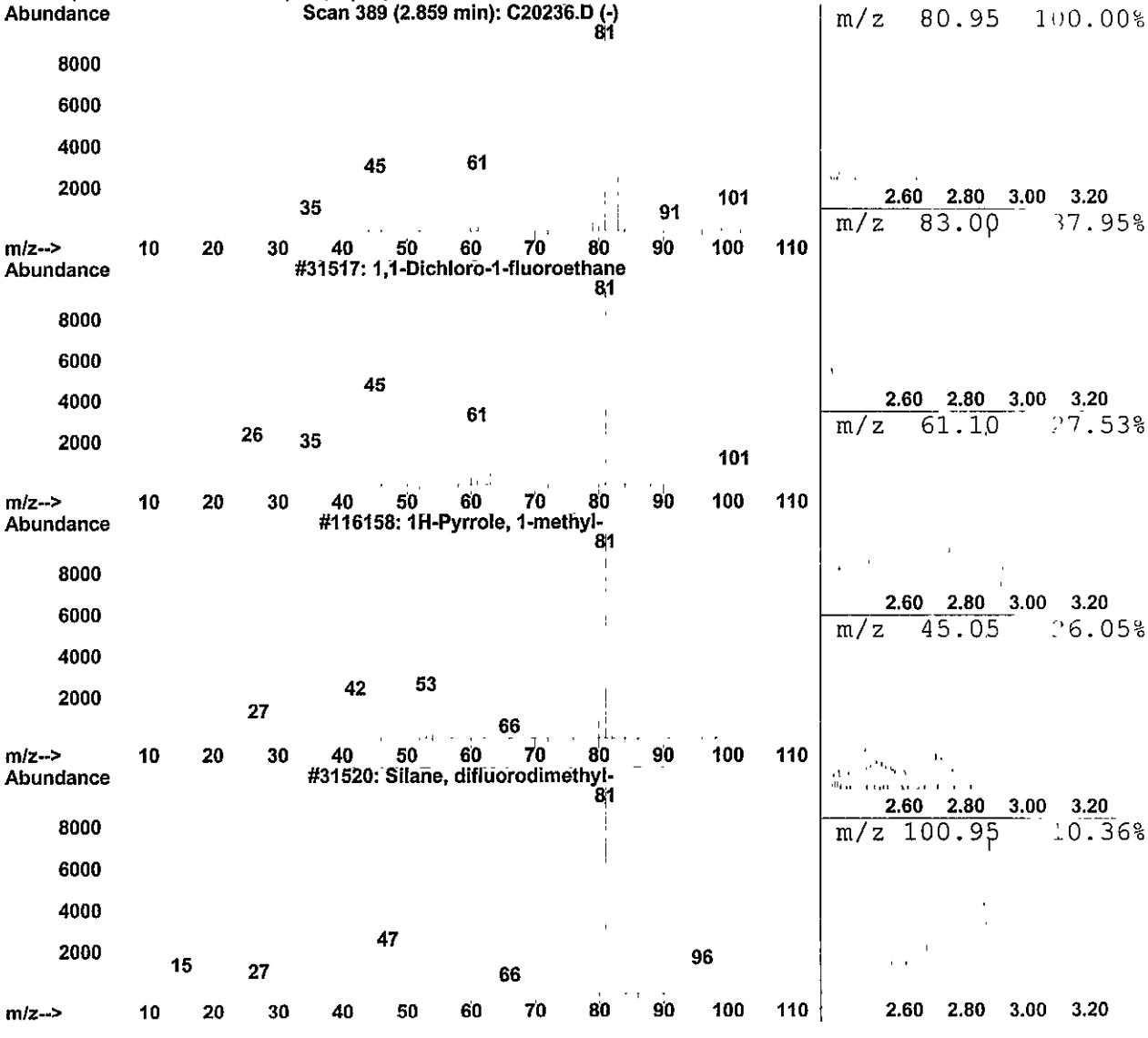
Quant Method : c:\hpchem\1\data\053101\05310125.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Library : C:\DATABASE\NIST98.L

****

Peak Number 1 1,1-Dichloro-1-fluoroethane Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.86	269940.00 ug\L	26994	1.4-Difluorobenzene	0.00

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1,1-Dichloro-1-fluoroethane	116	C2H3Cl2F	001717-00-6	50
2	1H-Pyrrole, 1-methyl-	81	C5H7N	000096-54-8	3
3	Silane, difluorodimethyl-	96	C2H6F2Si	000353-66-2	2
4	2,4-Hexadienal, (E,E)-	96	C6H8O	000142-83-6	2



Tentatively Identified Compound (LSC) summary

Operator ID: JP/VRR/DAT Date Acquired: 31 May 2001 19:05
Data File: C:\HPCHEM\1\DATA\053101\C20236.D
Name: AC14042 25ml DF=1
Misc: 27988/C05310125
Method: c:\hpchem\1\data\053101\05310125.M (RTE Integrator)
Title: 8260 CALIBRATION FOR 25ML WATER
Library Searched: C:\DATABASE\NIST98.L

TIC Top Hit name	RT	EstConc	Units	Area	IntStd	ISRT	ISArea	ISConc
1,1-Dichloro-1-fluor	2.86	269940.0	ug\L	26994	ISTD01	0.00	1	10.0

C20236.D 05310125.M Fri Jun 01 09:09:15 2001

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\053101\C20231.D Vial: 1
Acq On : 05/31/01 16:56 Operator: JP/VRR/DAT
Sample : AC14042 25ml DF=1 Inst : HP013
Misc : 27988/C05310125 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 1 9:10 2001 Quant Results File: C05310125.RES

Quant Method : c:\hpchem\1\data\053101\05310125.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Wed May 30 13:53:00 2001
Response via : Initial Calibration
DataAcq Meth : 05310125

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	6.98	168	380198m	10.00	ug\L	0.02
45) Chlorobenzene-d5	12.33	117	438763	10.00	ug\L	0.00
61) 1,4-Dichlorobenzene-d4	15.58	152	133308	10.00	ug\L	0.00
88) 1.4-Difluorobenzene	0.00	116	0m	10.00	ug\L	-8.12
System Monitoring Compounds						
32) 1,2-Dichloroethane-d4	7.46	65	174211	11.54	ug\L	0.02
Spiked Amount 10.000	Range 80 - 120		Recovery = 115.40%			
46) Toluene-d8	10.28	98	738464	11.46	ug\L	0.00
Spiked Amount 10.000	Range 87 - 104		Recovery = 114.60%#			
66) Bromofluorobenzene	13.98	95	195882	12.34	ug\L	0.00
Spiked Amount 10.000	Range 84 - 110		Recovery = 123.40%#			
Target Compounds						Qvalue
16) Methylene Chloride	3.87	86	16603	1.73	ug\L	

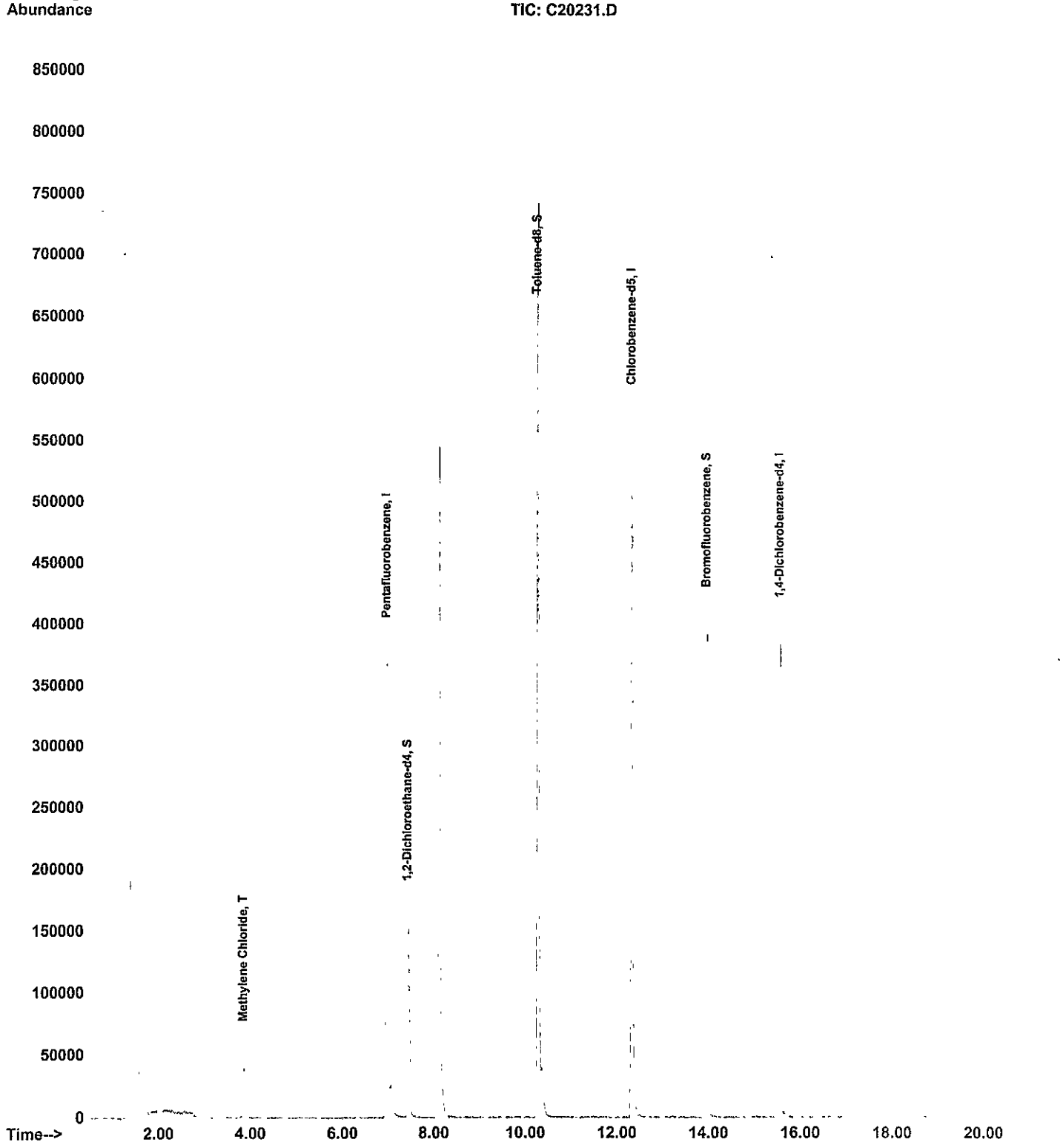
SS failed
VRR
6-1-01

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\053101\C20231.D Vial: [illegible]
Acq On : 05/31/01 16:56 Operator: [illegible]/VRR/DAT
Sample : AC14042 25ml DF=1 Inst : HP013
Misc : 27988/C05310125 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 1 9:10 2001 Quant Results File: 05310125.RES

Method : C:\HPCHEM\1\DATA\053101\05310125.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Wed May 30 13:53:00 2001
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\053101\C20215.D Vial: 1
Acq On : 05/31/01 09:00 Operator: C:/VRR/DAT
Sample : QVW053101 C1 Inst : HP013
Misc : WATER 25ml Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 1 8:17 2001 Quant Results File: C310125.RES

Quant Method : C:\HPCHEM\1\DATA\053101\05310125.M (RTE Integrate)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Wed May 30 13:53:00 2001
Response via : Initial Calibration
DataAcq Meth : 05310125

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	6.97	168	414346	10.00	ug\L	0.00
45) Chlorobenzene-d5	12.32	117	451040	10.00	ug\L	0.00
61) 1,4-Dichlorobenzene-d4	15.57	152	145118	10.00	ug\L	0.00
88) 1.4-Difluorobenzene	0.00	116	0m	10.00	ug\L	-8.12
System Monitoring Compounds						
32) 1,2-Dichloroethane-d4	7.44	65	173758	10.56	ug\L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 105.60%			
46) Toluene-d8	10.27	98	751497	11.35	ug\L	0.00
Spiked Amount 10.000	Range 87 - 104		Recovery = 113.50%#			
66) Bromofluorobenzene	13.97	95	193463	11.20	ug\L	0.00
Spiked Amount 10.000	Range 84 - 110		Recovery = 112.00%#			

Target Compounds Qvalue

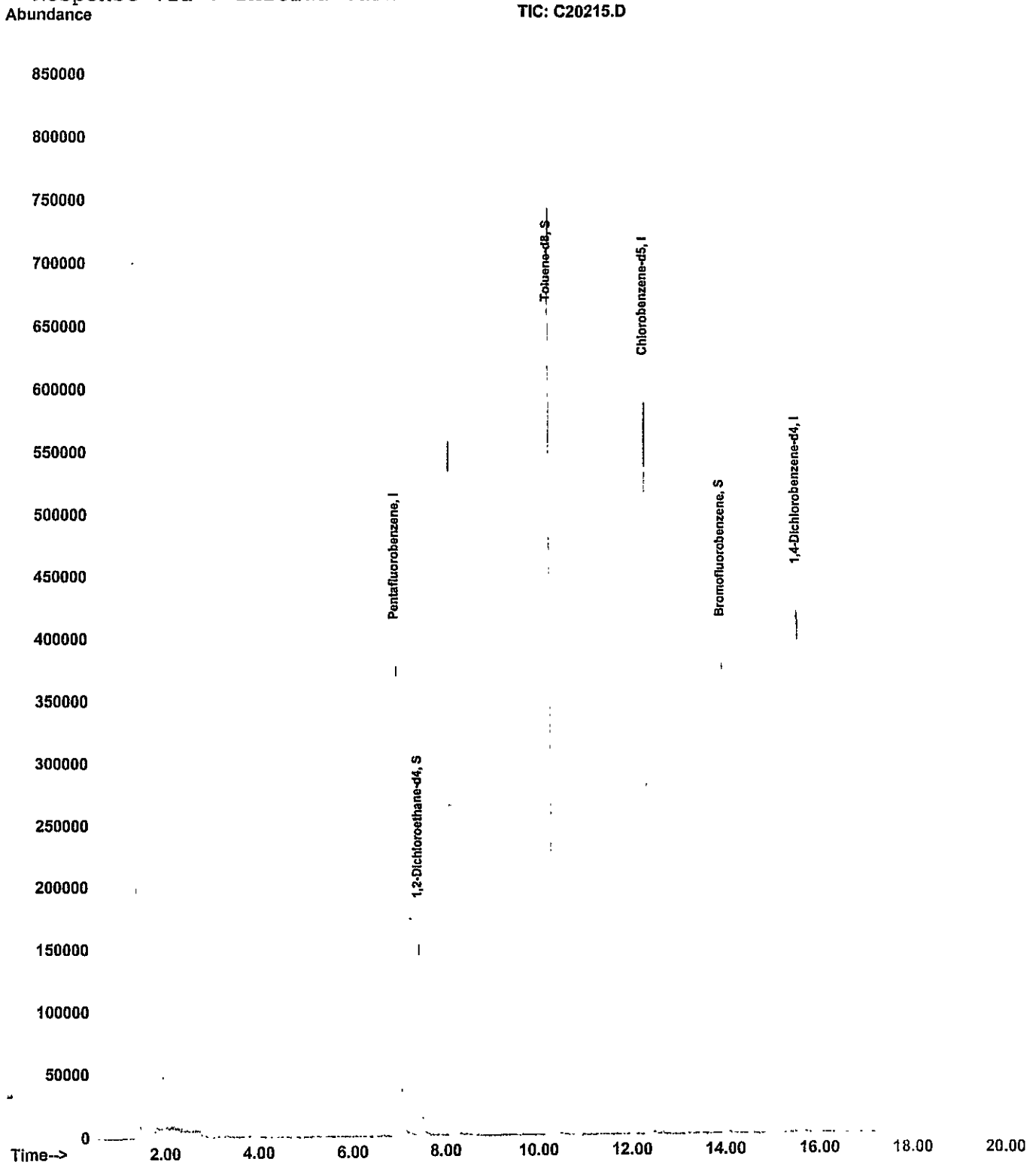
VRR 6.1.01

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\053101\C20215.D Vial: [illegible]
Acq On : 05/31/01 09:00 Operator: [illegible]/VRB DAT
Sample : QVW053101 C1 Inst : [illegible]
Misc : WATER 25ml Multiplr: [illegible]
MS Integration Params: rteint.p
Quant Time: Jun 1 8:17 2001 Quant Results File: [illegible]310125.RES

Method : C:\HPCHEM\1\DATA\053101\05310125.M (RTE Integrate)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Wed May 30 13:53:00 2001
Response via : Initial Calibration



VOA GC/MS CALIBRATION CHECKLIST
SW-846-8260B

DATE / INSTRUMENT: 05.25.01 / VOA-C	METHOD: 8260B
MATRIX: WATER - 25 mL	

Are all standards within expiration dates for both stock and serial standards?	Y	N	NA
Are Tuning results compliant with method?	Y	N	NA
Are all Initial Calibration RSDs compliant for CCCs and non-CCC compounds?	Y	N	NA
If RSDs are non-compliant, was initial calibration curve constructed using one of the alternative methods from method 8000B? (List analytes below)	Y	N	NA

BROMOMETHANE - LINEAR; 2-BUTANONE - LINEAR; 2-NITROPROPANE - LINEAR

ACROLEIN - LINEAR; 1,4-DIOXANE - LINEAR; 2-CHLOROETHYL-VINYL ETHER - LINEAR

ACETONE - LINEAR; ISOBUTYL ALCOHOL - LINEAR; 4-METHYL-2-PENTANONE - LINEAR

VINYL ACETATE - LINEAR; METHYLMETHACRYLATE - LINEAR; trans-1,3-DICHLOROPROPENE - LINEAR

Is the runlog completely filled out (including review signature/date)?	Y	N	NA
Are all mistakes single lined, initialled, and dated?	Y	N	NA

Analyst: JP	Reviewer:
Date: 05.26.2001 Time: 1900	Date: Time:

ETHYLMETHACRYLATE - LINEAR

TETRACHLOROETHENE - LINEAR

2-HEXANONE - LINEAR

BROMOFORM - LINEAR

cis-1,4-DICHLORO-2-BUTENE

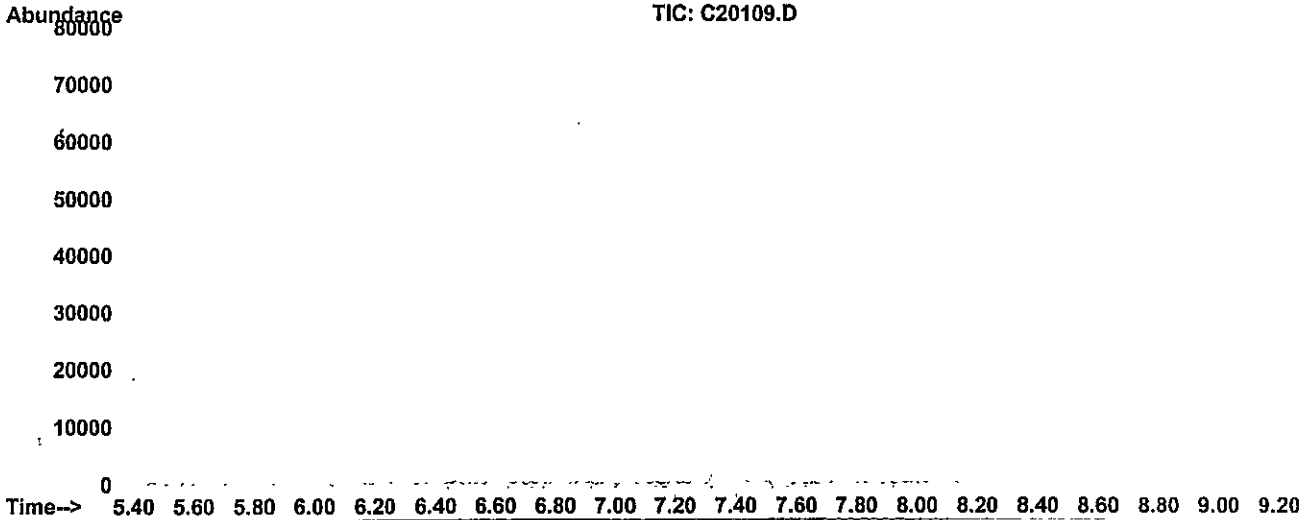
PENTACHLOROETHANE - LINEAR

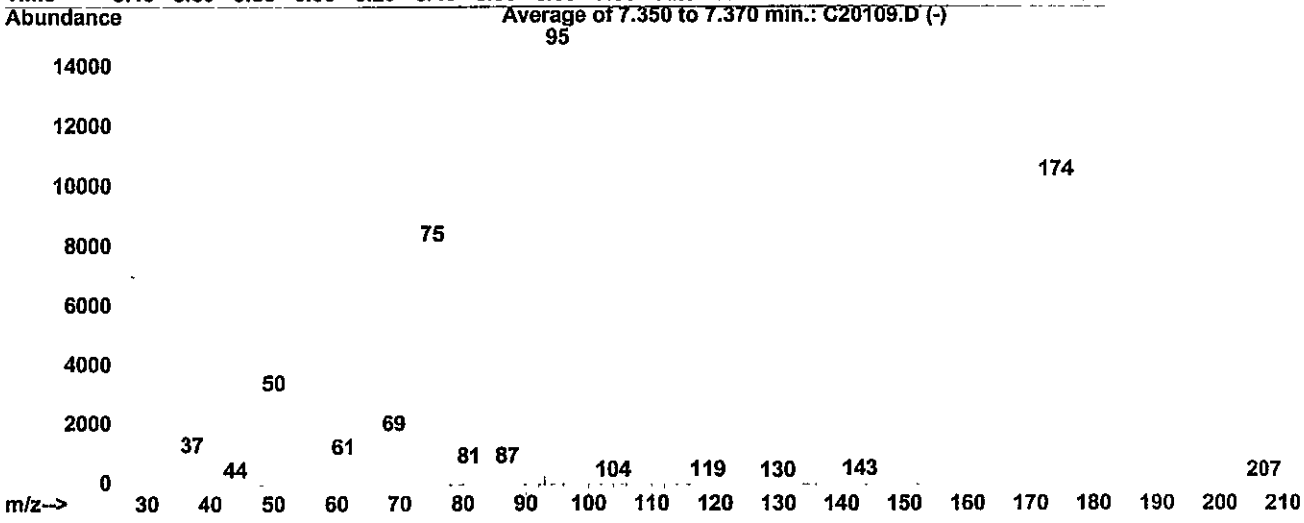
1,2-DIBROMO-3-CHLOROPROPENE - LINEAR

NAPHTHALENE - QUADRATIC

BFB

Data File : C:\HPCHEM\1\DATA\052501\C20109.D Vial: 1
Acq On : 05/25/01 18:52 Operator: JP/VRR/DAT
Sample : BFB 50ng Inst : HP013
Misc : VO1O18 Multiplr: 1.00
MS Integration Params: rteint.p
Method : C:\HPCHEM\1\METHODS\BFB01.M (RTE Integrator)
Title :





AutoFind: Scans 622, 623, 624; Background Corrected with Scan 616

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	20.5	2994	PASS
75	95	30	60	55.0	8019	PASS
95	95	100	100	100.0	14583	PASS
96	95	5	9	6.5	951	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	69.7	10162	PASS
175	174	5	9	7.3	745	PASS
176	174	95	101	97.0	9853	PASS
177	176	5	9	6.7	663	PASS

C20109.D BFB01.M Fri May 25 19:04:42 2001

Response Factor Report HP013

Method : C:\HPCHEM\1\DATA\052501\05250125.M (RTE Integrat
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Sat May 26 11:57:46 2001
Response via : Initial Calibration

Calibration Files
1 =C20114.D 4 =C20111.D 10 =C20110.D
20 =C20115.D 30 =C20116.D 40 =C20117.D

		Compound	1	4	10	20	30	40	Avg	%RSD
45)	I	Chlorobenzene-d5	----------ISTD----------							
46)	S	Toluene-d8	1.233	1.555	1.574	1.481	1.497	1.469	1.468	8.33
47)	TMC	Toluene	0.831	1.030	1.036	0.946	0.952	0.955	0.958	7.73
48)	T	trans-1,3-Dichlorop	0.176	0.222	0.251	0.287	0.289	0.295	0.253	18.62
49)	T	Ethylmethacrylate	0.099	0.145	0.159	0.182	0.187	0.191	0.160	21.78
50)	T	1,1,2-Trichloroetha	0.127	0.137	0.136	0.140	0.138	0.140	0.136	3.65
51)	T	Tetrachloroethene	0.651	0.425	0.433	0.385	0.393	0.392	0.446	22.91
52)	T	1,3-Dichloropropane	0.273	0.300	0.294	0.297	0.294	0.293	0.292	3.23
53)	T	2-Hexanone	0.035	0.048	0.046	0.058	0.059	0.062	0.051	19.22
54)	T	Dibromochloromethan	0.168	0.191	0.210	0.232	0.234	0.243	0.213	13.56
55)	T	1,2-Dibromoethane	0.110	0.128	0.131	0.135	0.132	0.132	0.128	7.09
56)	TMP	Chlorobenzene	0.946	1.052	1.002	0.976	0.962	0.963	0.983	3.91
57)	T	1,1,1,2-Tetrachloro	0.281	0.315	0.317	0.317	0.317	0.314	0.310	4.66
58)	TC	Ethylbenzene	1.747	2.100	2.100	1.913	1.886	1.860	1.934	7.26
59)	TG	total-Xylene	0.529	0.688	0.687	0.635	0.625	0.618	0.630	9.26
60)	T	Styrene	0.656	0.935	0.956	0.930	0.902	0.916	0.883	12.76
61)	I	1,4-Dichlorobenzene-d	----------ISTD----------							
62)	TP	Bromoform	0.165	0.186	0.202	0.243	0.246	0.267	0.218	18.16
63)	T	Isopropylbenzene	3.683	4.790	4.792	4.151	4.148	4.250	4.302	9.92
64)	T	cis-1,4-dichloro-2-	0.047	0.059	0.065	0.075	0.074	0.081	0.067	18.75
65)	T	trans-1,4-dichloro-	0.077	0.095	0.094	0.105	0.099	0.103	0.096	10.72
66)	S	Bromofluorobenzene		1.249	1.188	1.156	1.174	1.186	1.191	2.93
67)	T	Bromobenzene	0.694	0.810	0.792	0.784	0.784	0.823	0.781	5.78
68)	TP	1,1,2,2-Tetrachloro	0.270	0.355	0.331	0.357	0.359	0.371	0.341	10.90
69)	T	1,2,3-Trichloroprop	0.386	0.391	0.382	0.388	0.388	0.397	0.389	1.25
70)	T	n-Propylbenzene	4.516	5.946	5.790	5.131	4.999	5.043	5.238	10.22
71)	T	2-Chlorotoluene	2.929	3.505	3.421	3.184	3.134	3.194	3.228	6.43
72)	T	4-Chlorotoluene	3.316	3.591	3.387	3.159	3.553	3.545	3.425	4.93
73)	T	1,3,5-Trimethylbenz	3.389	4.280	4.276	3.885	3.845	3.759	3.906	8.64
74)	T	Pentachloroethane	0.006	0.439	0.433	0.427	0.436	0.444	0.364	48.16
75)	T	tert-Butylbenzene	2.555	3.389	3.307	2.871	2.766	2.750	2.940	11.34
76)	T	1,2,4-Trimethylbenz	3.092	3.981	3.991	3.729	3.636	3.524	3.659	9.14
77)	T	sec-Butylbenzene	3.778	5.036	4.974	4.312	4.173	4.132	4.401	11.37
78)	T	1,3-Dichlorobenzene	1.517	1.693	1.632	1.564	1.542	1.527	1.579	4.39
79)	T	Isopropyltoluene	2.871	3.822	3.982	3.445	3.357	3.267	3.457	11.57
80)	T	1,4-Dichlorobenzene	1.448	1.613	1.550	1.516	1.492	1.519	1.523	3.64
81)	T	1,2-Dichlorobenzene	1.075	1.260	1.202	1.204	1.206	1.208	1.192	5.18
82)	T	n-Butylbenzene	2.394	3.446	3.637	3.348	3.349	3.252	3.237	13.39
83)	T	1,2-Dibromo-3-chlor	0.023	0.039	0.036	0.038	0.040	0.039	0.036	18.07
84)	T	1,2,4-trichlorobenz	0.538	0.675	0.668	0.625	0.714	0.729	0.658	10.55
85)	T	Hexachlorobutadiene	0.686	0.749	0.735	0.554	0.598	0.617	0.656	12.01
86)	T	Naphthalene	0.514	0.627	0.545	0.590	0.732	0.790	0.633	17.04
87)	T	1,2,3-Trichlorobenz	0.390	0.512	0.474	0.462	0.522	0.544	0.484	11.44

(#) = Out of Range

Response Factor Report HP013

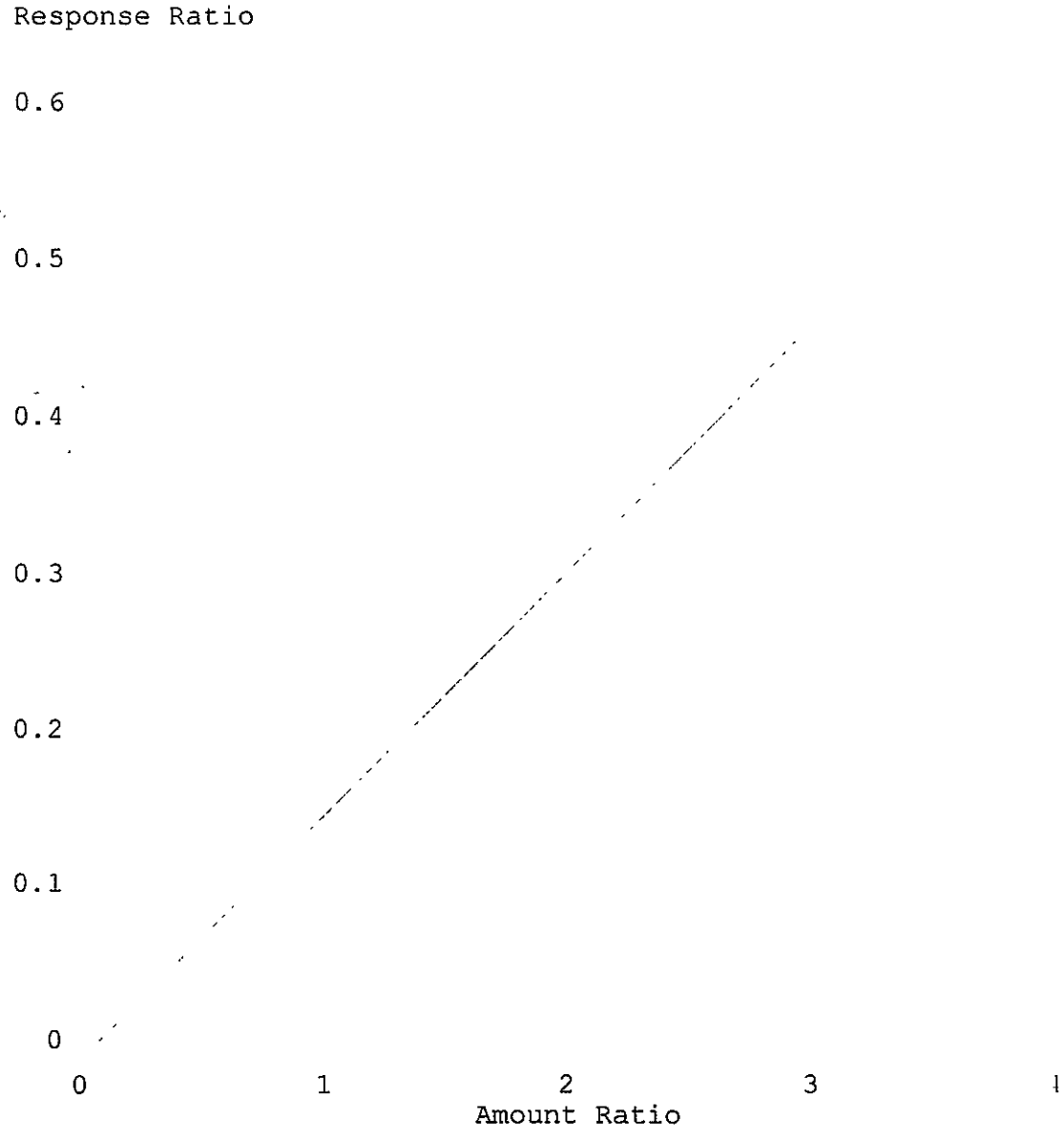
Method : C:\HPCHEM\1\DATA\052501\05250125.M (RTE Integrat
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Sat May 26 11:57:46 2001
Response via : Initial Calibration

Calibration Files
1 =C20114.D 4 =C20111.D 10 =C20110.D
20 =C20115.D 30 =C20116.D 40 =C20117.D

		Compound	1	4	10	20	30	40	Avg	%RSD
1)	I	Pentafluorobenzene	ISTD							
2)	T	Dichlorodifluoromet	0.657	0.719	0.742	0.653	0.690	0.646	0.685	5.75
3)	TP	Chloromethane	0.519	0.540	0.556	0.489	0.516	0.484	0.5 7	5.38
4)	TC	Vinyl Chloride	0.465	0.496	0.504	0.457	0.494	0.453	0.4 8	4.65
5)	T	Bromomethane	0.206	0.141	0.128	0.146	0.162	0.152	0.1 5	17.41
6)	T	Chloroethane	0.247	0.261	0.272	0.249	0.267	0.244	0.2 7	4.46
7)	T	Trichlorofluorometh	0.737	0.768	0.766	0.754	0.808	0.740	0.7 2	3.40
8)	T	Acrolein	0.008	0.015	0.015	0.015	0.017	0.016	0.0 4	21.35
9)	T	Acrylonitrile	0.037	0.031	0.033	0.038	0.037	0.038	0.036	8.22
10)	TMC	1,1-Dichloroethene	0.424	0.479	0.498	0.461	0.490	0.466	0.4 0	5.62
11)	T	Acetone		0.019	0.013	0.010	0.010	0.011	0.0 3	30.84
12)	T	Iodomethane	0.531	0.595	0.656	0.658	0.695	0.644	0.6 0	9.20
13)	T	Allylchloride	0.551	0.633	0.643	0.650	0.682	0.650	0.6 5	6.99
14)	T	Carbon Disulfide	1.540	1.638	1.728	1.639	1.804	1.702	1.6 5	5.40
15)	T	Acetonitrile	0.061	0.071	0.073	0.071	0.079	0.073	0.0 1	7.89
16)	T	Methylene Chloride	0.269	0.256	0.254	0.246	0.252	0.241	0.2 3	3.73
17)	T	trans-1,2-Dichloroe	0.455	0.494	0.515	0.479	0.506	0.480	0.488	4.43
18)	T	MethylTertButylEthe	0.439	0.477	0.459	0.516	0.533	0.520	0.491	7.71
19)	TP	1,1-Dichloroethane	0.799	0.827	0.810	0.825	0.869	0.834	0.8 7	2.90
20)	T	Vinyl Acetate	0.105	0.257	0.257	0.341	0.363	0.361	0.281	35.13
21)	T	2,2-Dichloropropane	0.551	0.637	0.702	0.646	0.716	0.659	0.6 2	8.99
22)	T	cis-1,2-Dichloroeth	0.417	0.450	0.457	0.461	0.474	0.450	0.4 2	4.18
23)	T	2-Butanone	0.003	0.010	0.009	0.010	0.011	0.010	0.009	32.58
24)	T	Propionitrile	0.011	0.011	0.010	0.012	0.013	0.012	0.0 2	7.89
25)	T	Methacrylonitrile	0.065	0.070	0.069	0.078	0.077	0.074	0.0 2	7.22
26)	T	Bromochloromethane	0.137	0.140	0.142	0.149	0.150	0.144	0.1 4	3.47
27)	TC	Chloroform	0.855	0.871	0.854	0.901	0.923	0.871	0.8 9	3.13
28)	T	1,1,1-Trichloroetha	0.805	0.893	0.922	0.903	0.970	0.917	0.902	6.03
29)	T	Carbon Tetrachlorid	0.691	0.756	0.792	0.788	0.841	0.790	0.7 6	6.45
30)	T	1,4-Dioxane	0.000	0.001	0.001	0.001	0.001	0.001	0.001	29.55
31)	T	1,1-Dichloropropene	0.219	0.233	0.236	0.227	0.238	0.227	0.2 0	3.04
32)	S	1,2-Dichloroethane-	0.413	0.389	0.372	0.410	0.410	0.388	0.397	4.15
33)	TM	Benzene	1.682	1.781	1.742	1.749	1.820	1.707	1.747	2.84
34)	T	Isobutyl alcohol	0.001	0.003	0.002	0.003	0.003	0.003	0.003	27.82
35)	T	1,2-Dichloroethane	0.449	0.446	0.428	0.467	0.465	0.449	0.4 1	3.11
36)	TM	Trichloroethene	0.575	0.576	0.573	0.569	0.602	0.576	0.5 8	2.01
37)	TC	1,2-Dichloropropane	0.328	0.347	0.328	0.363	0.370	0.356	0.349	5.14
38)	T	Dibromomethane	0.144	0.142	0.139	0.161	0.159	0.149	0.149	6.16
39)	T	Methylmethacrylate	0.060	0.065	0.070	0.088	0.091	0.090	0.0 7	17.95
40)	T	Bromodichloromethan	0.447	0.455	0.464	0.538	0.550	0.530	0.4 7	9.36
41)	T	2-Nitropropane	0.004	0.021	0.020	0.030	0.032	0.034	0.0 4	47.29
42)	T	2-Chloroethyl-vinyl	0.001	0.038	0.039	0.053	0.060	0.058	0.0 2	52.42
43)	T	cis-1,3-Dichloropro	0.357	0.402	0.431	0.501	0.524	0.496	0.4 2	14.47
44)	T	4-Methyl-2-Pentanon	0.007	0.015	0.013	0.018	0.019	0.020	0.0 5	31.09

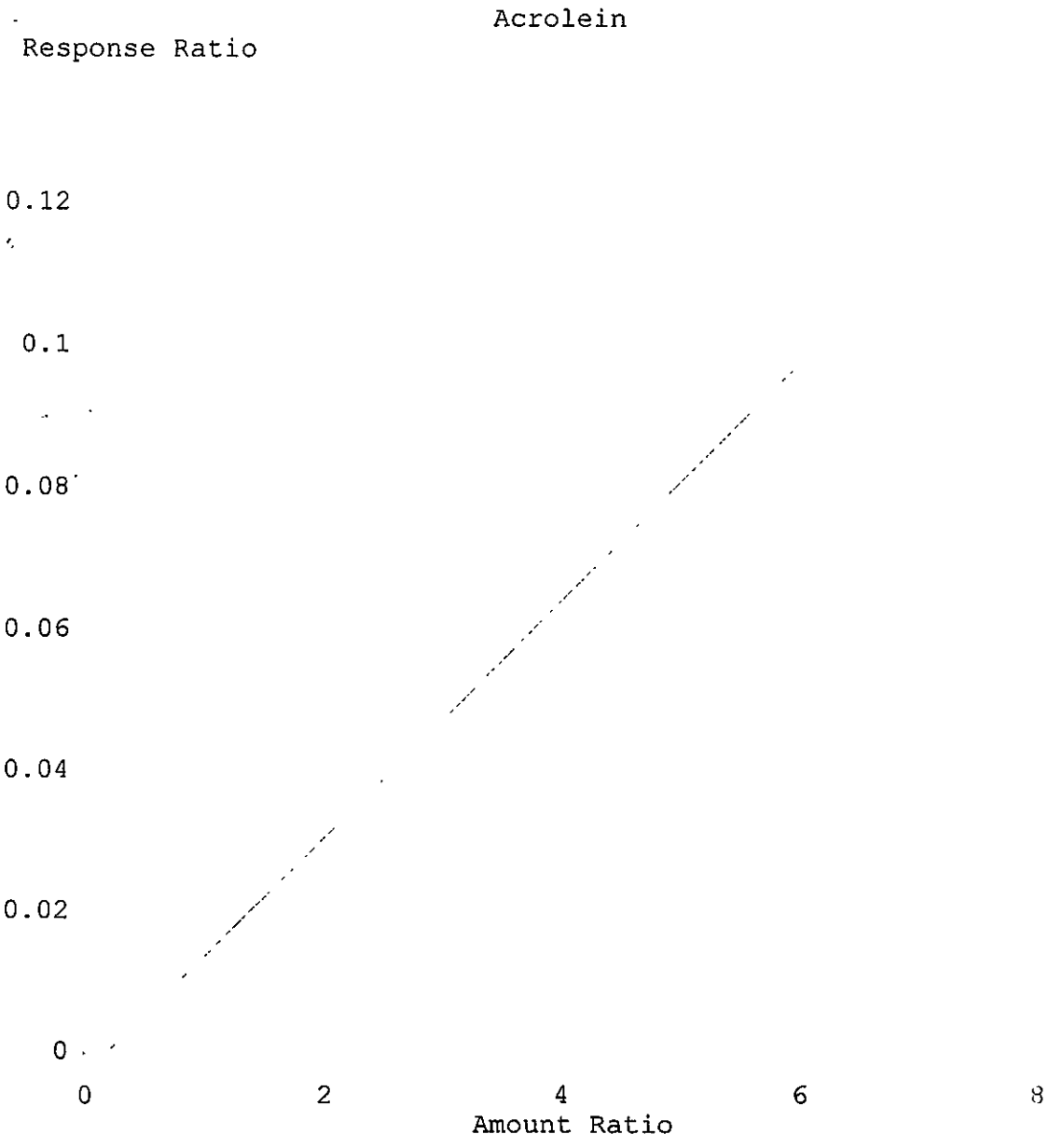
(#) = Out of Range

Bromomethane



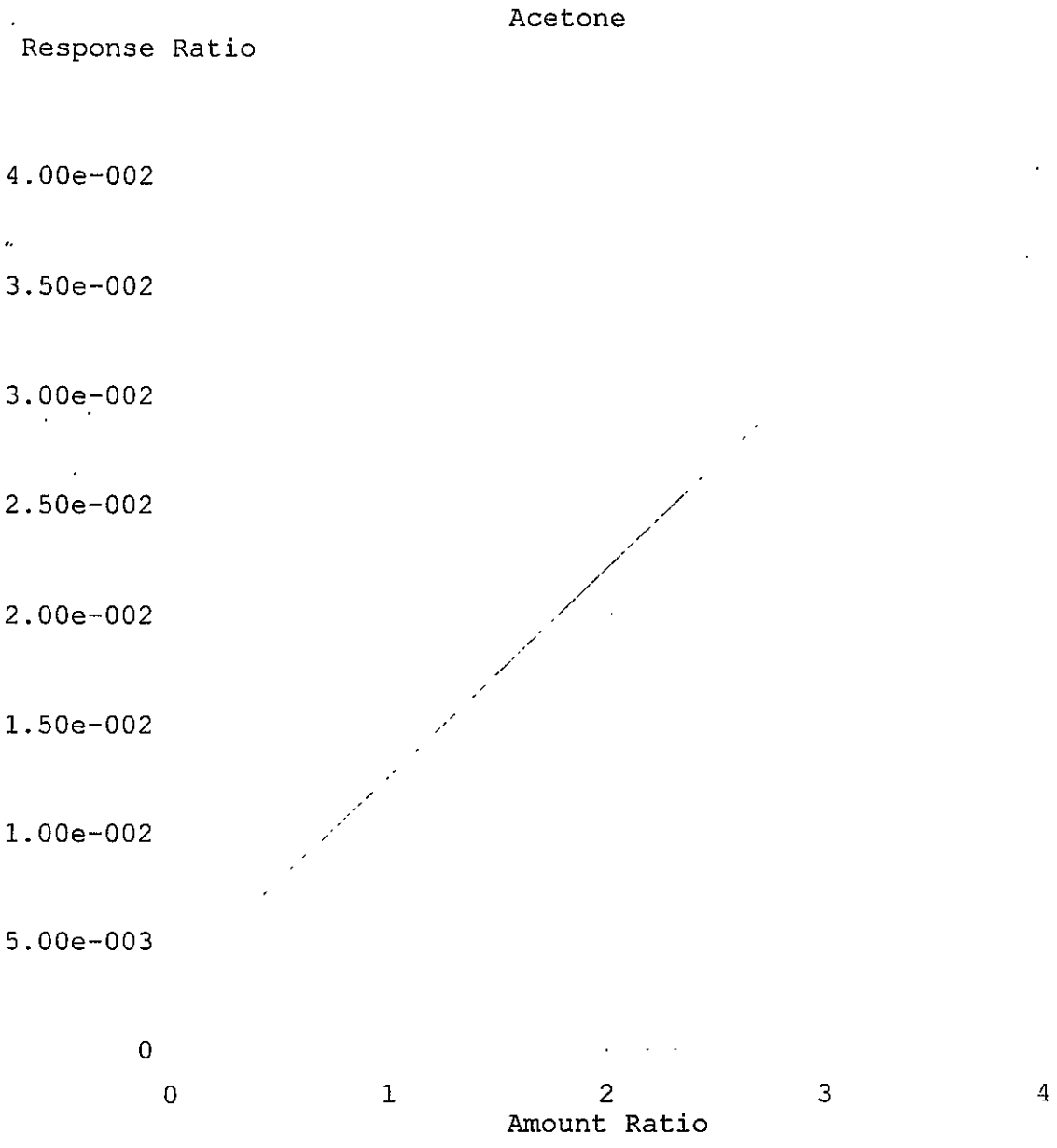
Resp Ratio = 1.57e-001 * Amt - 1.28e-002
Coef of Det (r^2) = 0.994 Curve Fit: Linear

Method Name: C:\HPCHEM\1\DATA\052501\05250125.M
Calibration Table Last Updated: Sat May 26 12:03:51 2001



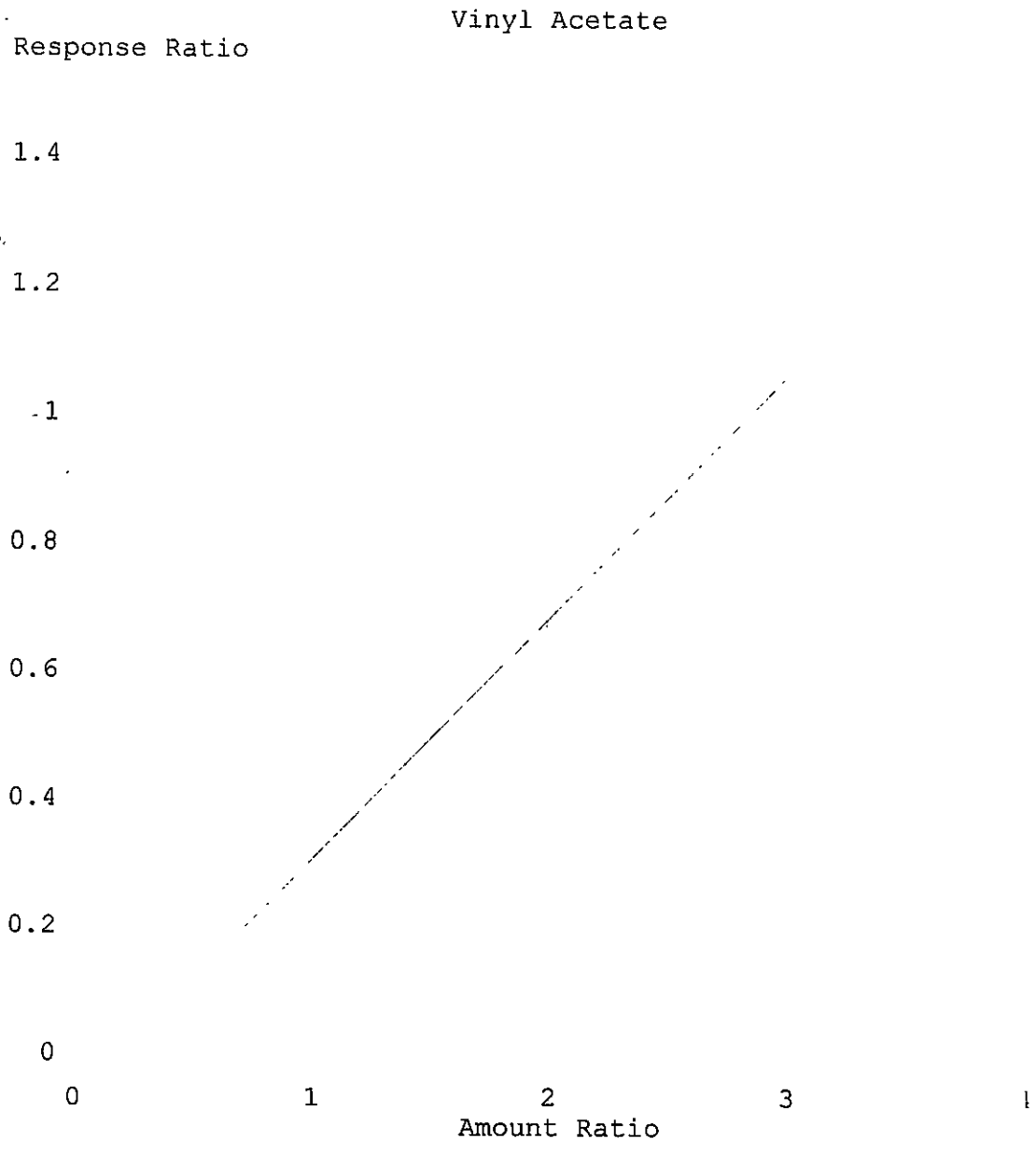
Resp Ratio = 1.68e-002 * Amt - 3.16e-003
Coef of Det (r^2) = 0.998 Curve Fit: Linear

Method Name: C:\HPCHEM\1\DATA\052501\05250125.M
Calibration Table Last Updated: Sat May 26 12:03:51 2001



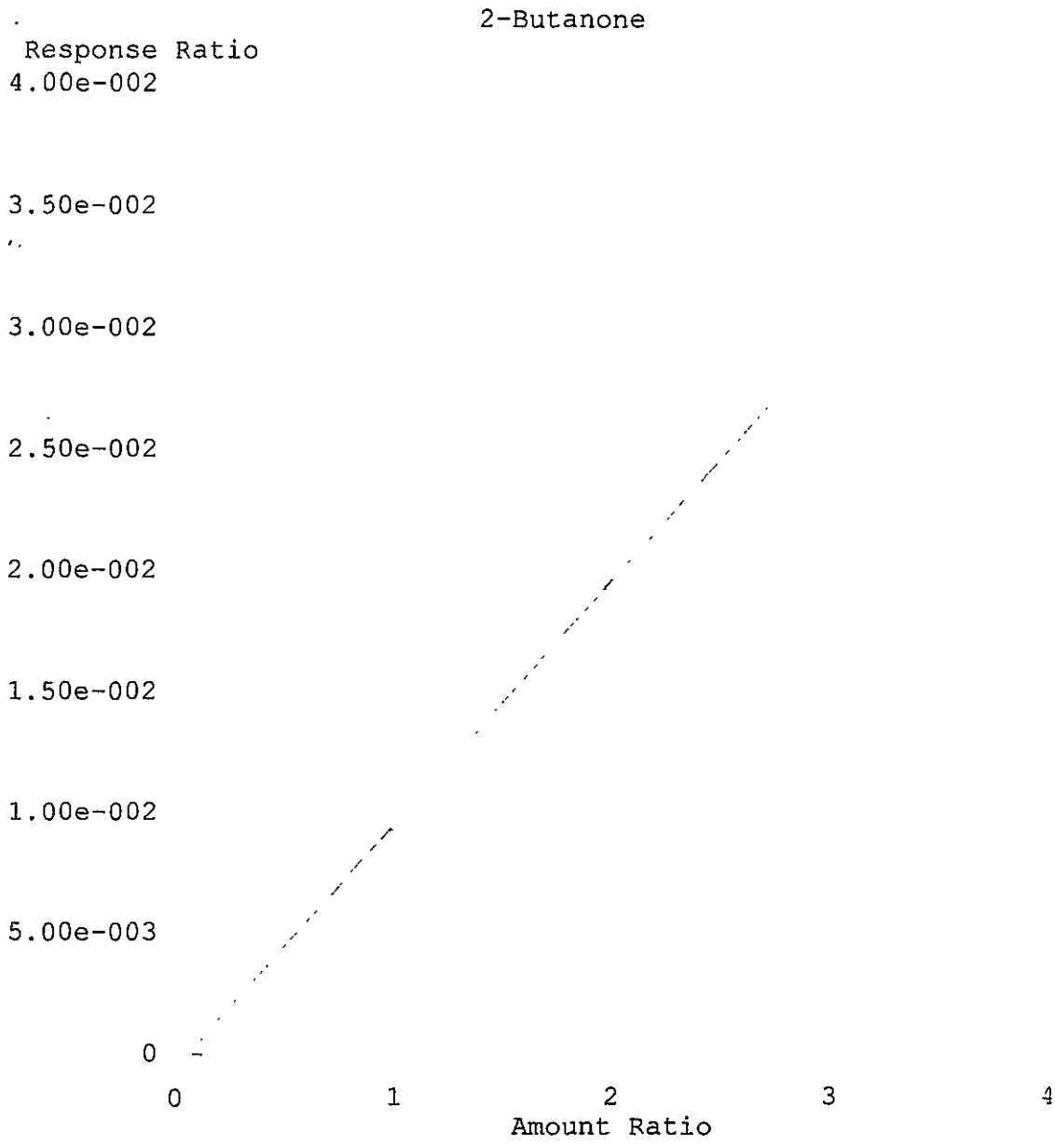
Resp Ratio = 9.50e-003 * Amt + 3.12e-003
Coef of Det (r^2) = 0.993 Curve Fit: Linear

Method Name: C:\HPCHEM\1\DATA\052501\05250125.M
Calibration Table Last Updated: Sat May 26 12:03:51 2001



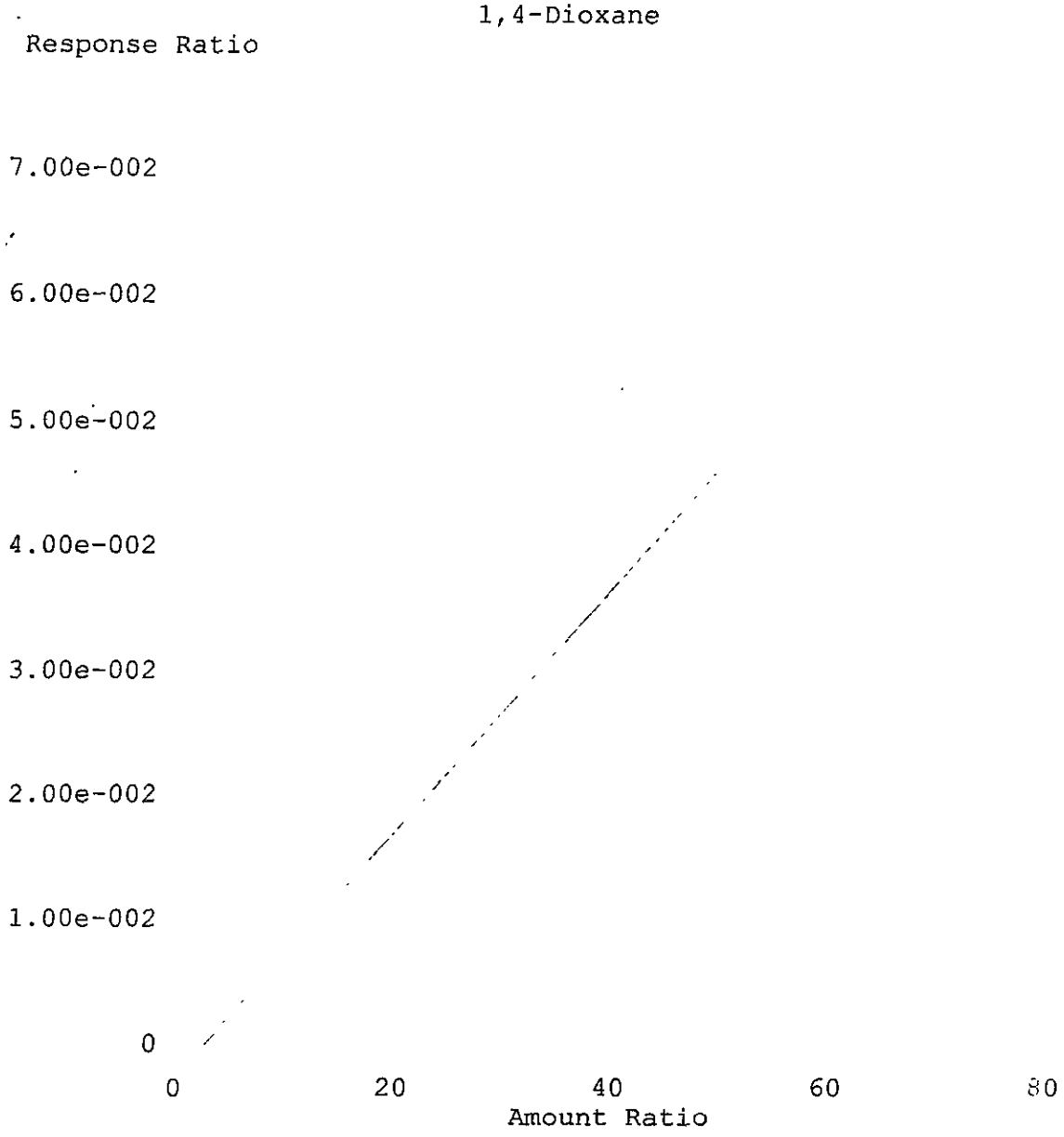
Resp Ratio = 3.79e-001 * Amt - 7.32e-002
Coef of Det (r^2) = 0.995 Curve Fit: Linear

Method Name: C:\HPCHEM\1\DATA\052501\05250125.M
Calibration Table Last Updated: Sat May 26 12:03:51 2001



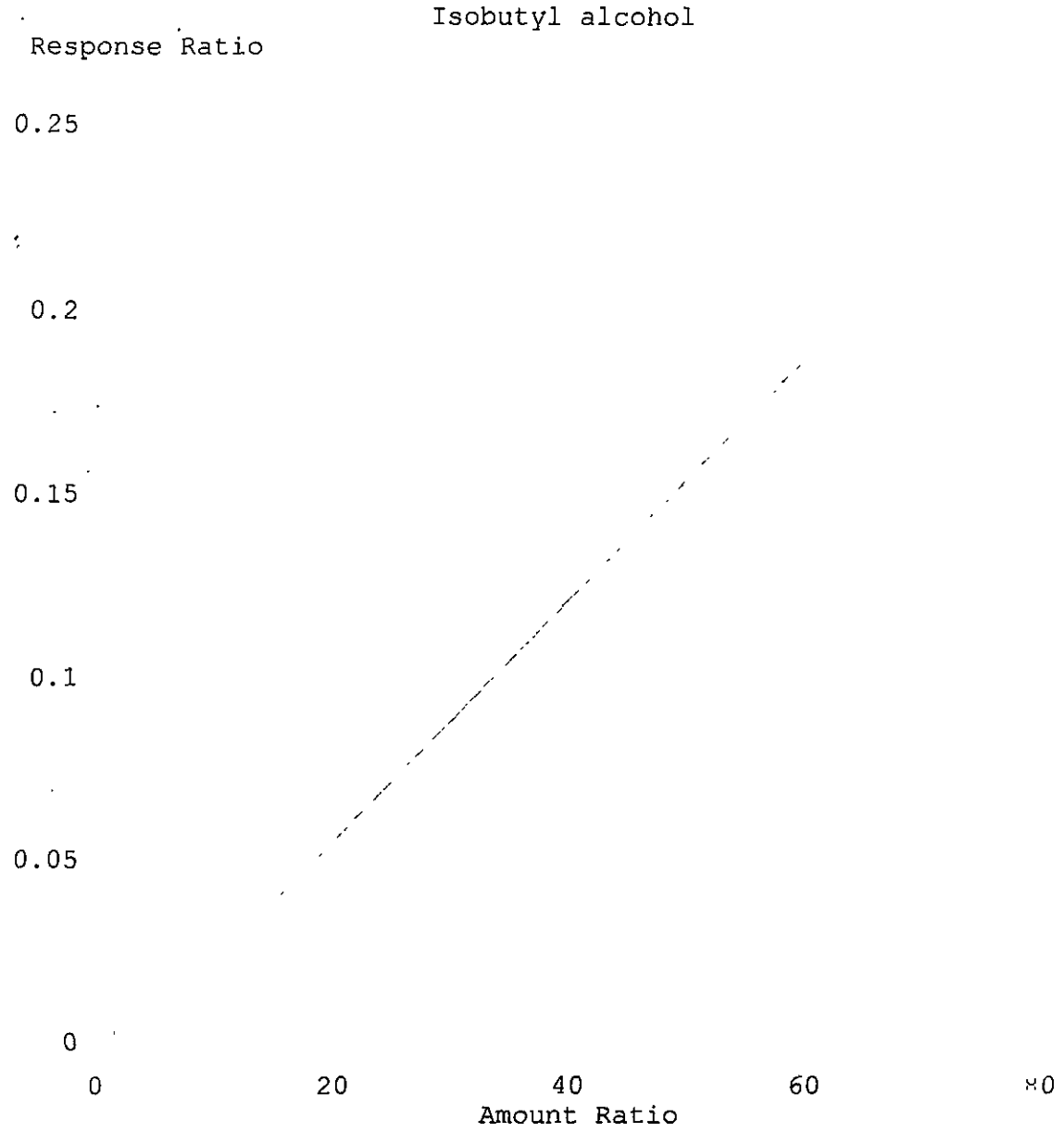
Resp Ratio = 1.00e-002 * Amt - 6.06e-004
Coef of Det (r^2) = 0.994 Curve Fit: Linear

Method Name: C:\HPCHEM\1\DATA\052501\05250125.M
Calibration Table Last Updated: Sat May 26 12:03:51 2001



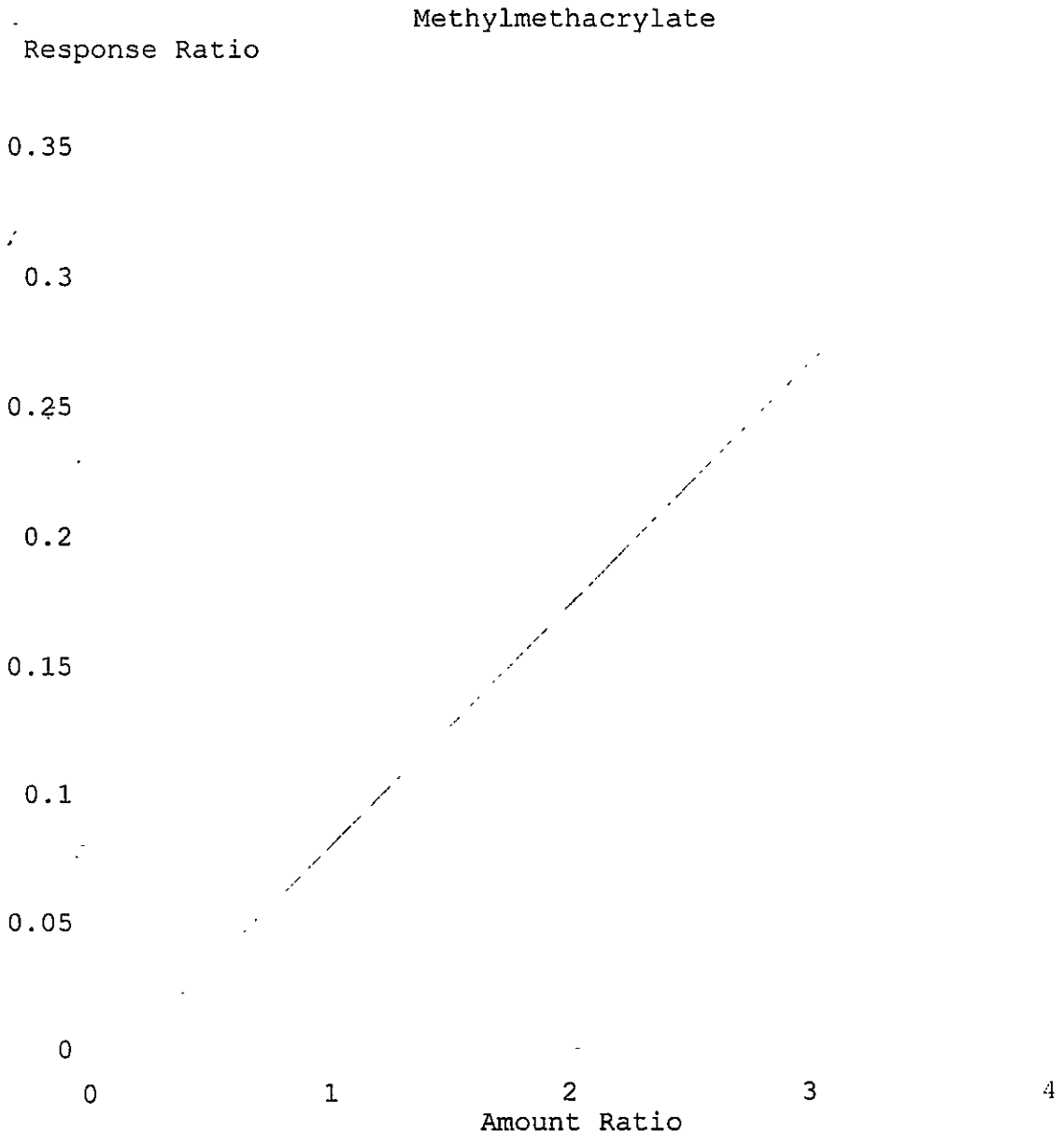
Resp Ratio = 9.71e-004 * Amt - 2.77e-003
Coef of Det (r^2) = 0.996 Curve Fit: Linear

Method Name: C:\HPCHEM\1\DATA\052501\05250125.M
Calibration Table Last Updated: Sat May 26 12:03:51 2001



Resp Ratio = 3.29e-003 * Amt - 1.09e-002
Coef of Det (r^2) = 0.993 Curve Fit: Linear

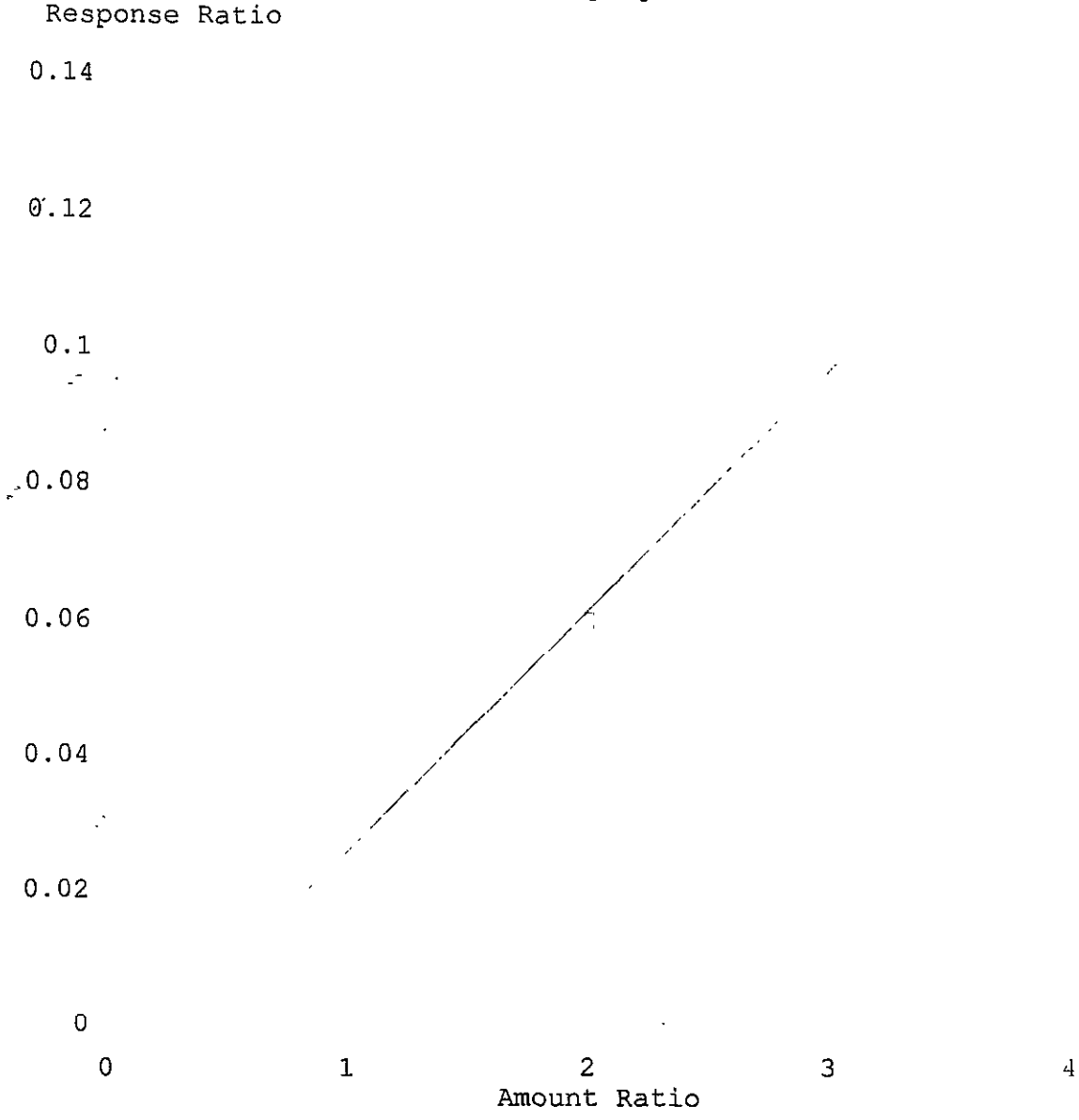
Method Name: C:\HPCHEM\1\DATA\052501\05250125.M
Calibration Table Last Updated: Sat May 26 12:03:51 2001



Resp Ratio = 9.34e-002 * Amt - 1.34e-002
Coef of Det (r^2) = 0.997 Curve Fit: Linear

Method Name: C:\HPCHEM\1\DATA\052501\05250125.M
Calibration Table Last Updated: Sat May 26 12:03:51 2001

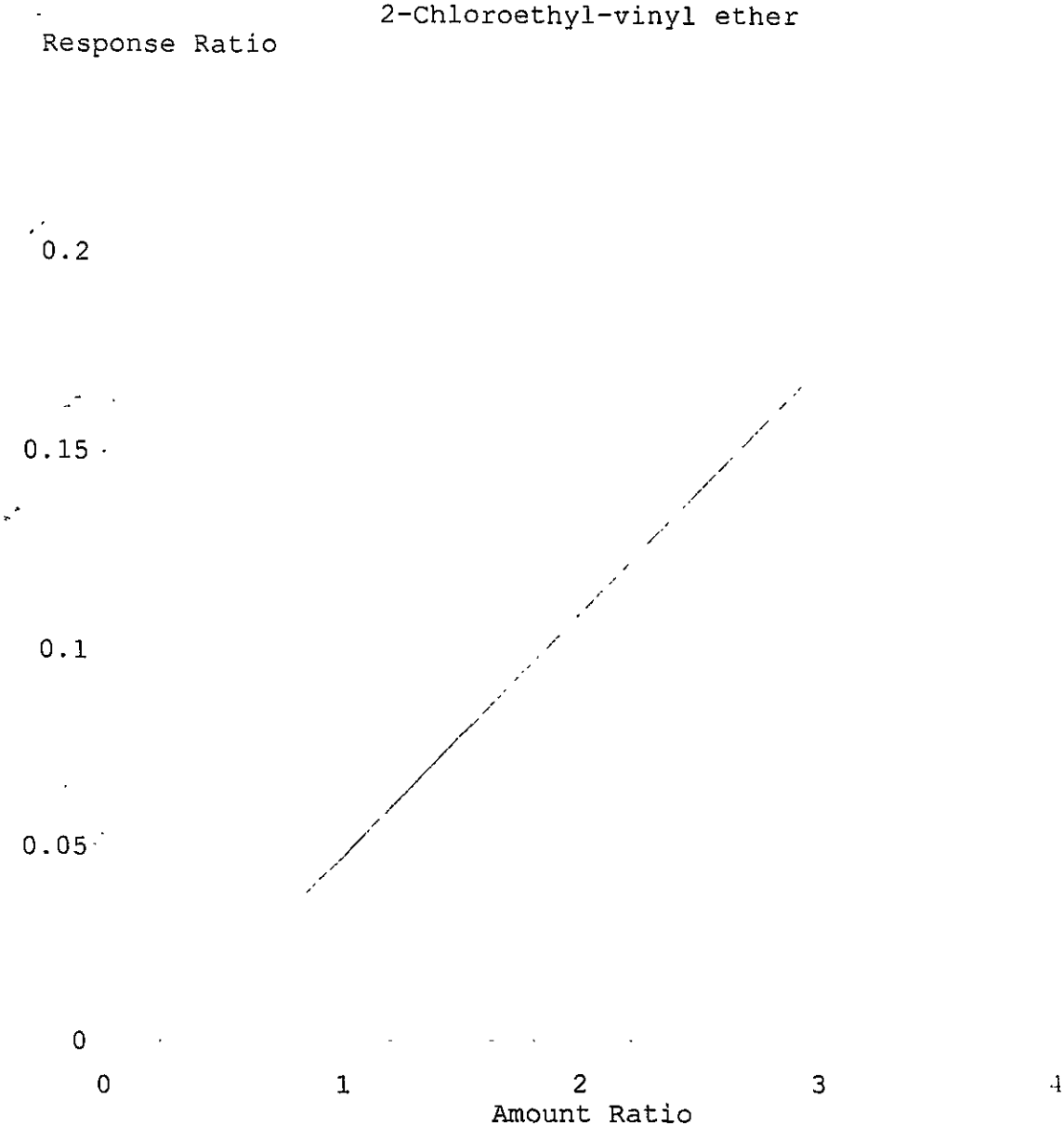
2-Nitropropane



Resp Ratio = 3.57e-002 * Amt - 9.92e-003
Coef of Det (r^2) = 0.990 Curve Fit: Linear

Method Name: C:\HPCHEM\1\DATA\052501\05250125.M
Calibration Table Last Updated: Sat May 26 12:03:51 2001

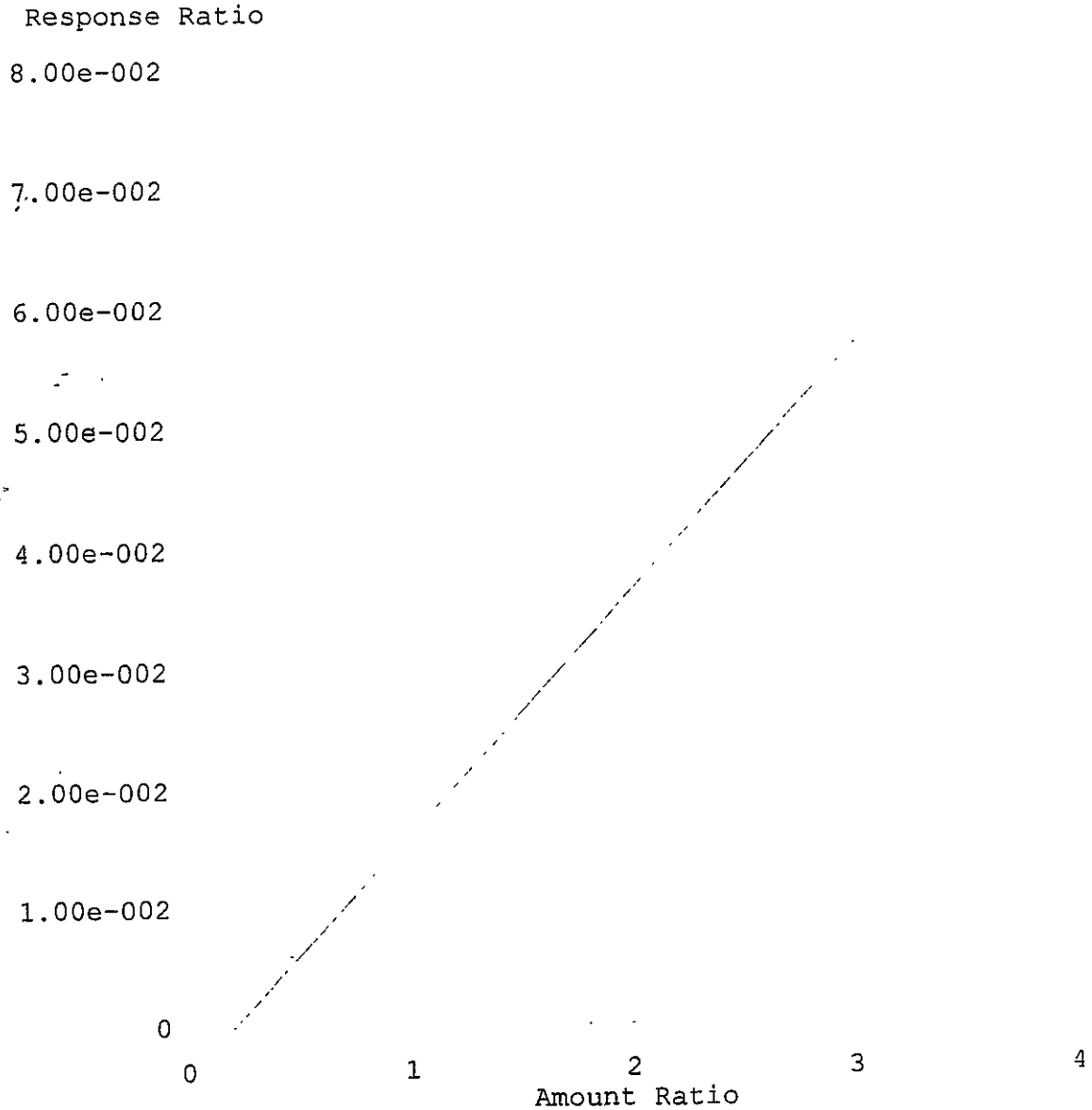
2-Chloroethyl-vinyl ether



Resp Ratio = 6.21e-002 * Amt - 1.43e-002
Coef of Det (r^2) = 0.994 Curve Fit: Linear

Method Name: C:\HPCHEM\1\DATA\052501\05250125.M
Calibration Table Last Updated: Sat May 26 12:03:51 2001

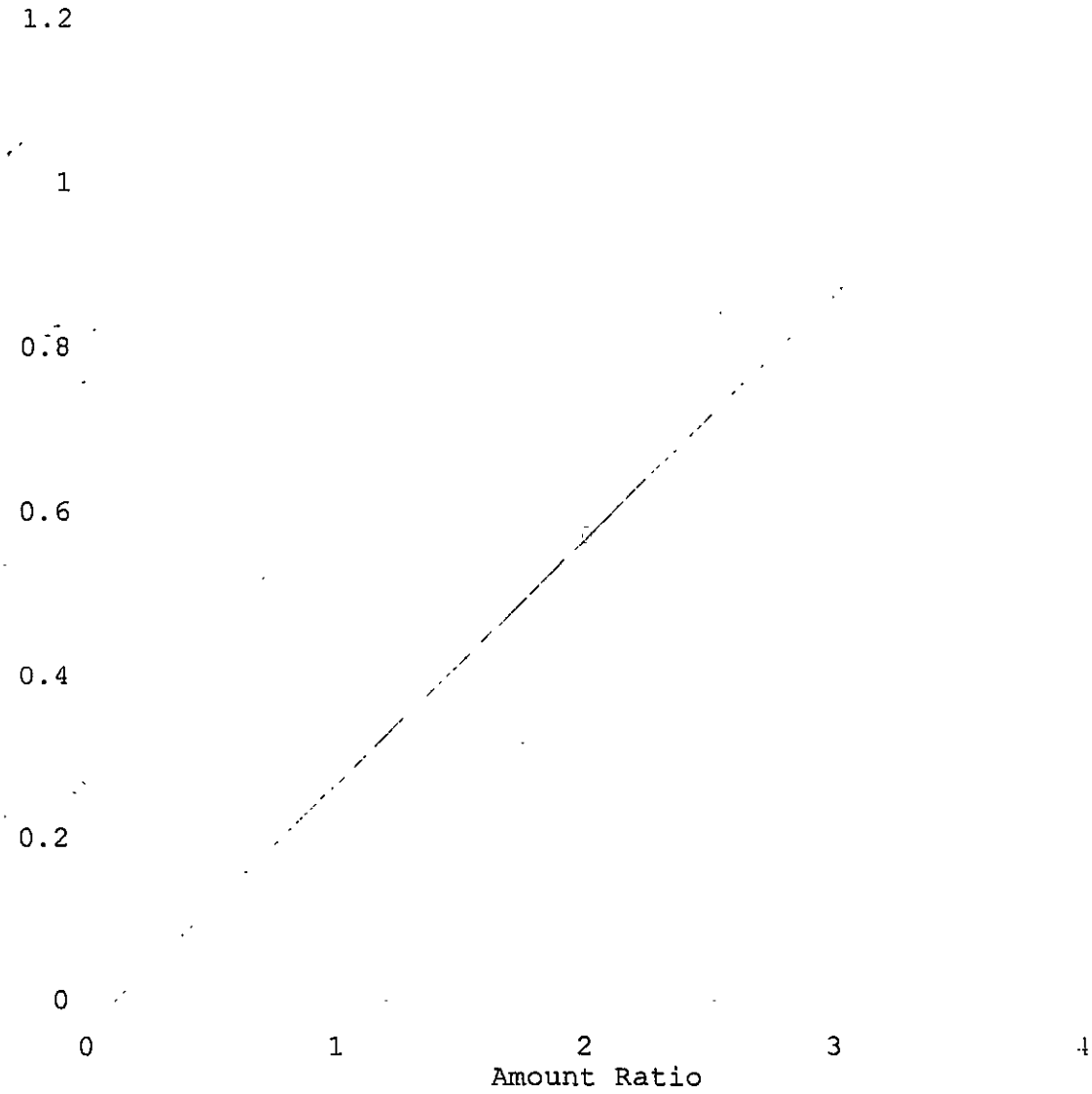
4-Methyl-2-Pentanone



Resp Ratio = 2.02e-002 * Amt - 4.10e-003
Coef of Det (r^2) = 0.994 Curve Fit: Linear

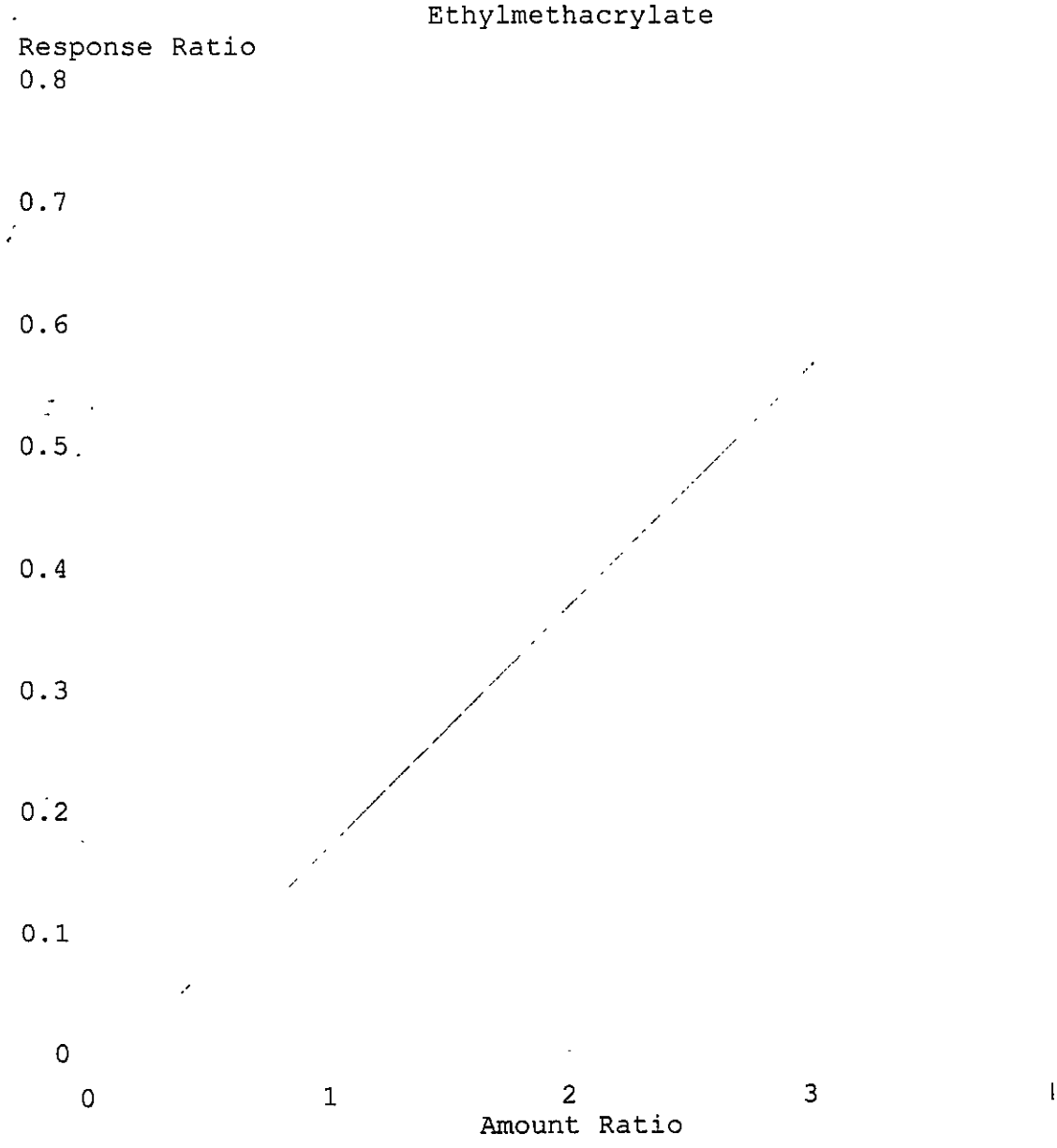
Method Name: C:\HPCHEM\1\DATA\052501\05250125.M
Calibration Table Last Updated: Sat May 26 12:03:51 2001

trans-1,3-Dichloropropene



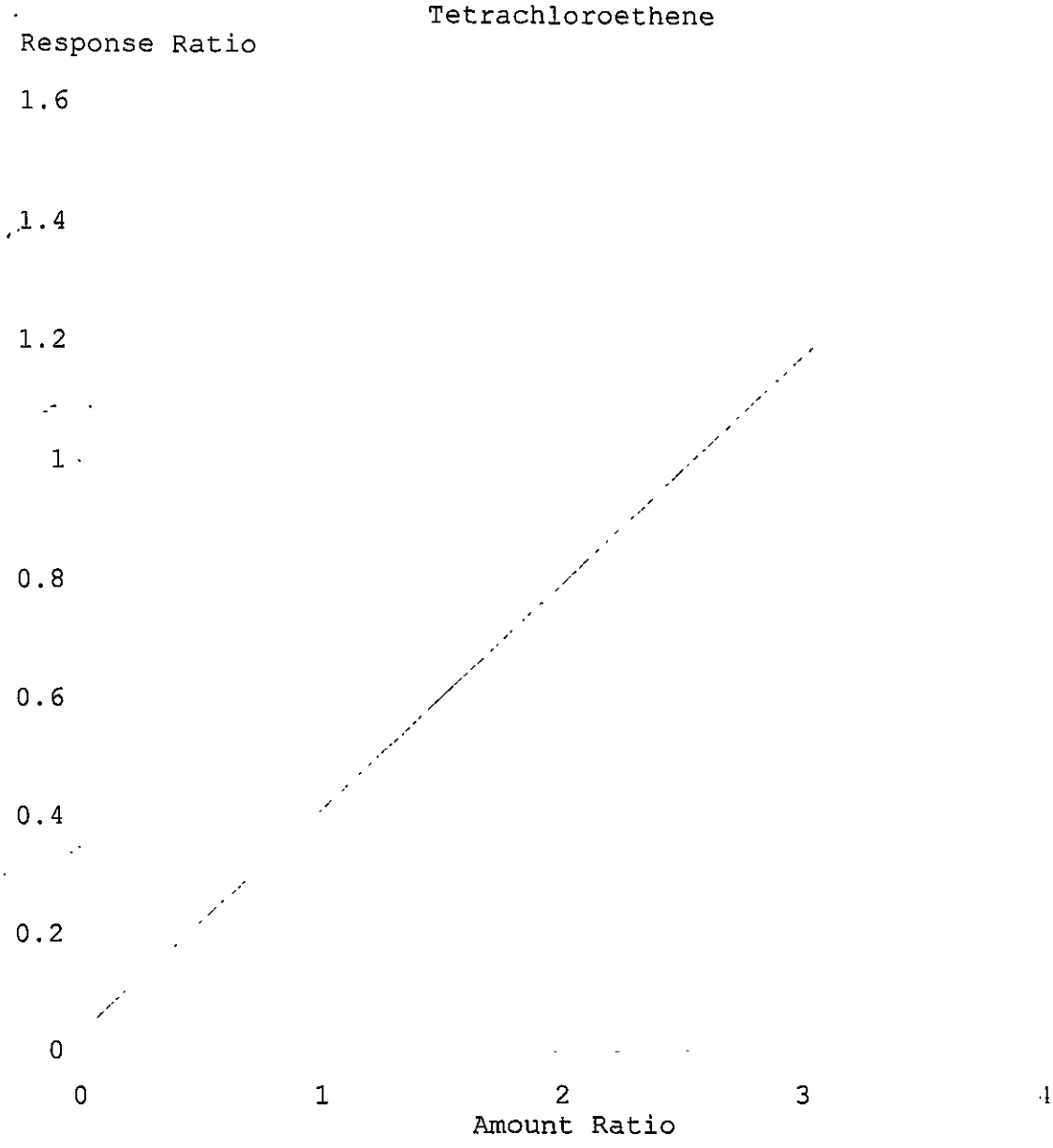
Resp Ratio = 3.02e-001 * Amt - 3.42e-002
Coef of Det (r^2) = 0.999 Curve Fit: Linear

Method Name: C:\HPCHEM\1\DATA\052501\05250125.M
Calibration Table Last Updated: Sat May 26 12:03:51 2001



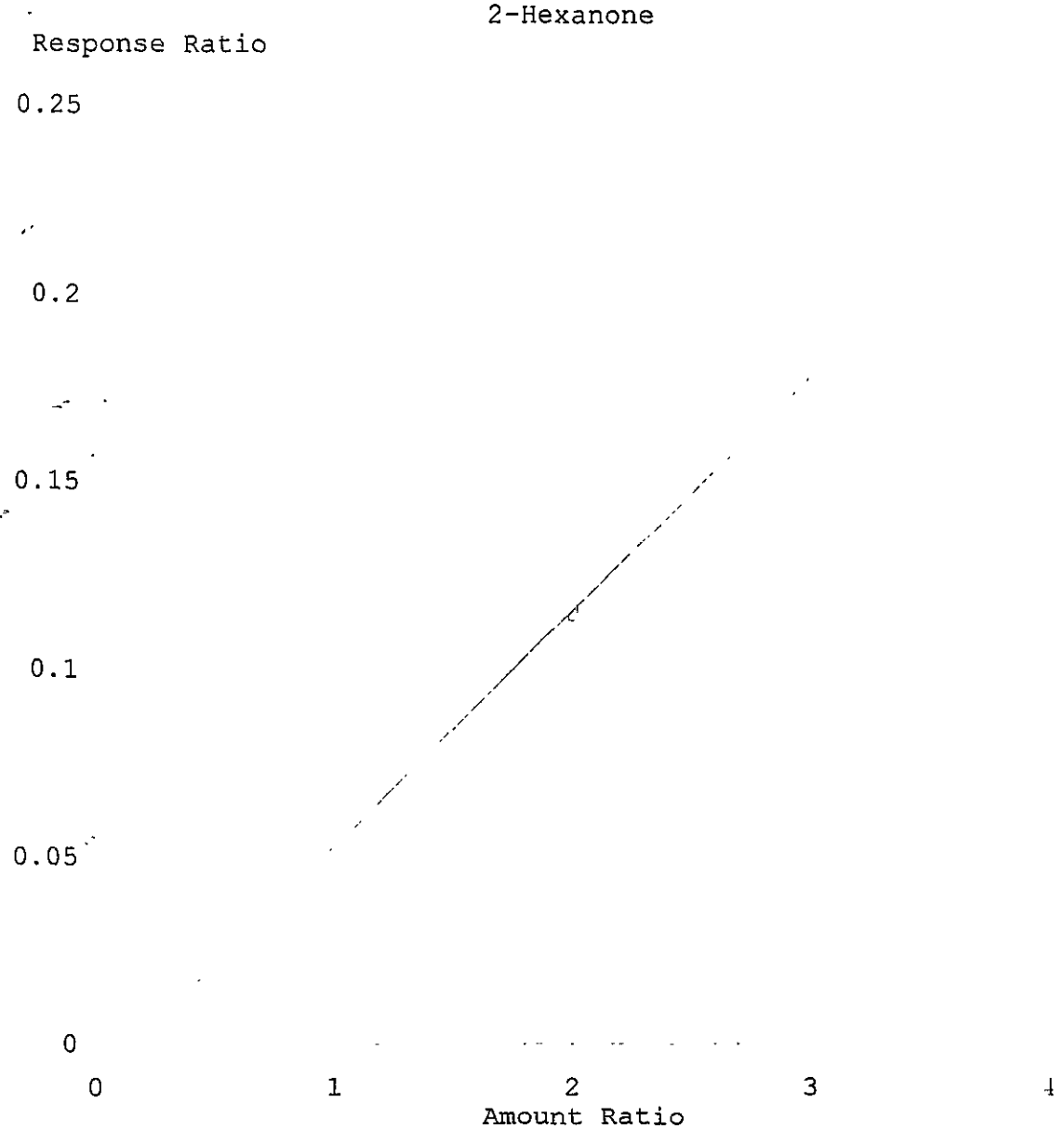
Resp Ratio = 1.96e-001 * Amt - 2.52e-002
Coef of Det (r^2) = 0.999 Curve Fit: Linear

Method Name: C:\HPCHEM\1\DATA\052501\05250125.M
Calibration Table Last Updated: Sat May 26 12:03:51 2001



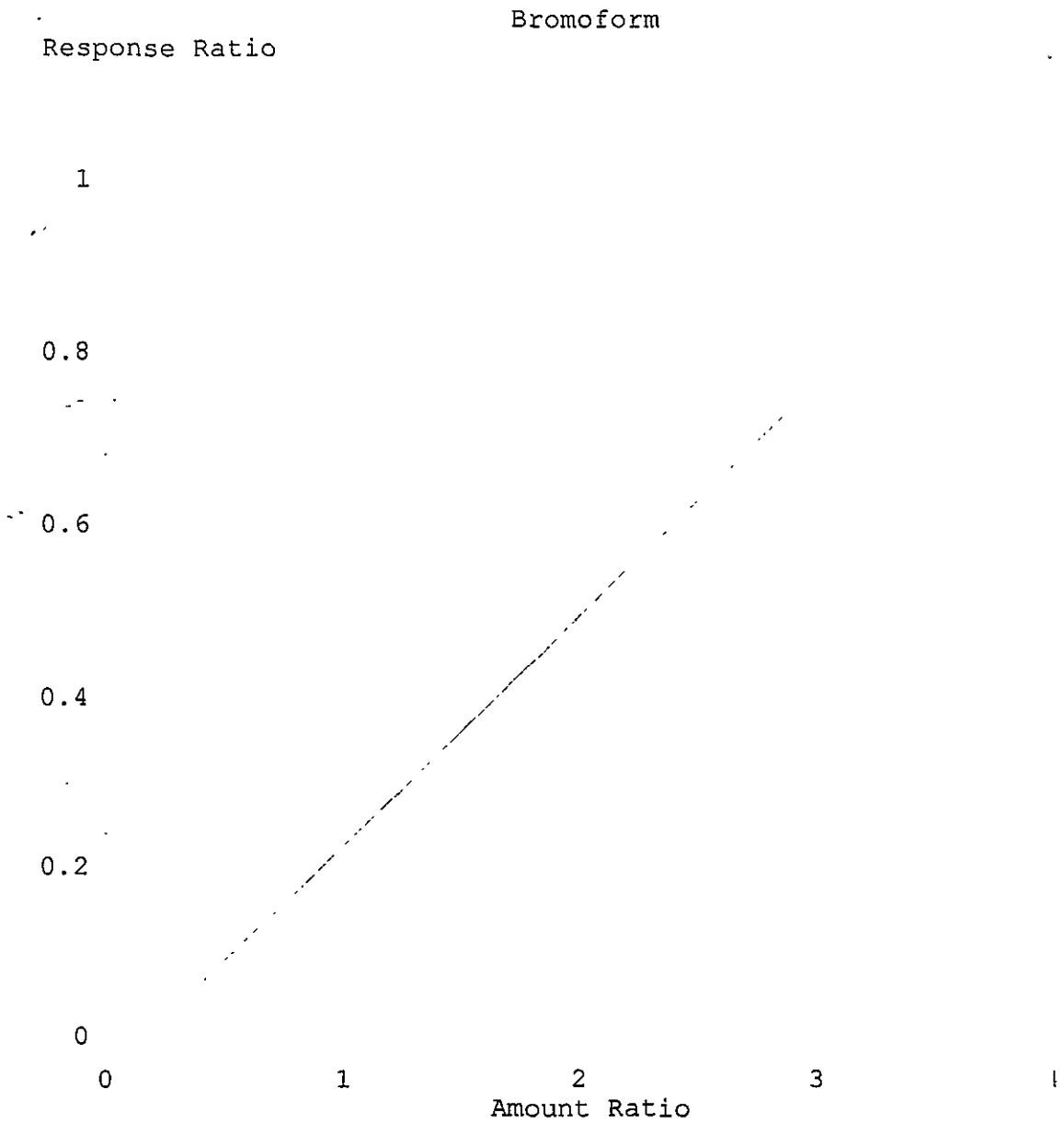
Resp Ratio = 3.83e-001 * Amt + 3.06e-002
Coef of Det (r^2) = 0.999 Curve Fit: Linear

Method Name: C:\HPCHEM\1\DATA\052501\05250125.M
Calibration Table Last Updated: Sat May 26 12:03:51 2001



Resp Ratio = 6.29e-002 * Amt - 9.98e-003
Coef of Det (r^2) = 0.996 Curve Fit: Linear

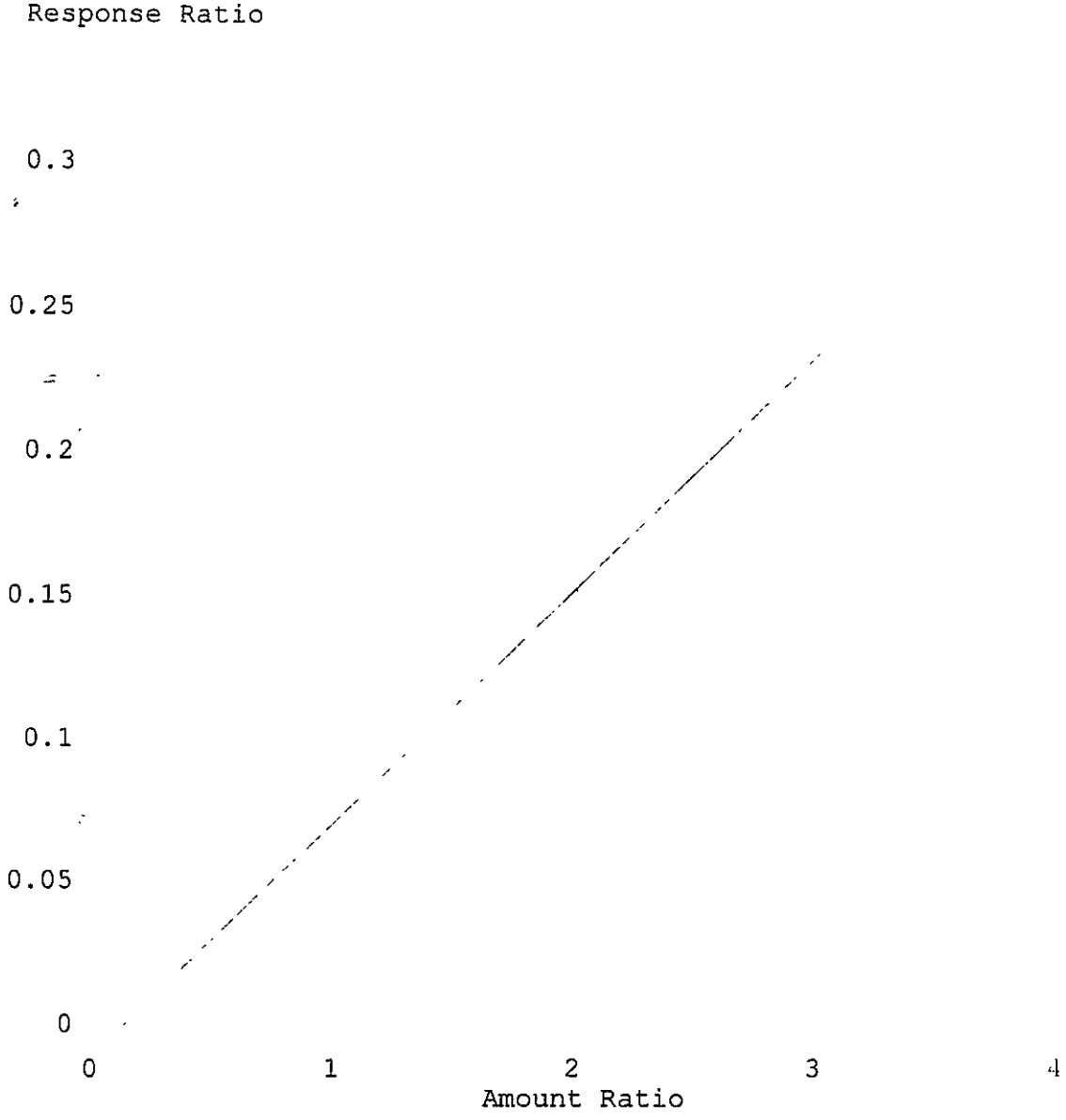
Method Name: C:\HPCHEM\1\DATA\052501\05250125.M
Calibration Table Last Updated: Sat May 26 12:03:51 2001



Resp Ratio = 2.70e-001 * Amt - 4.53e-002
Coef of Det (r^2) = 0.995 Curve Fit: Linear

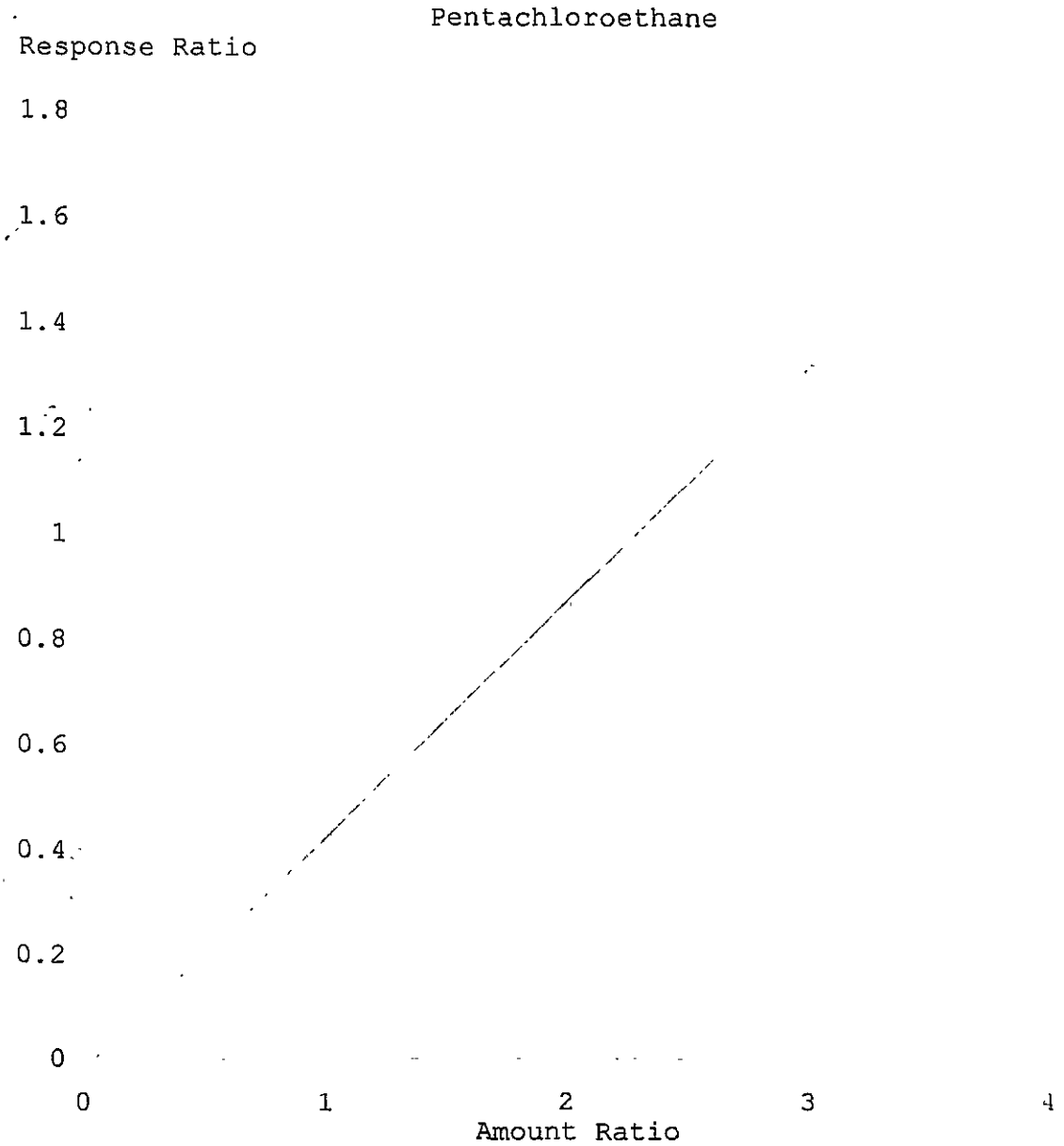
Method Name: C:\HPCHEM\1\DATA\052501\05250125.M
Calibration Table Last Updated: Sat May 26 12:03:51 2001

cis-1,4-dichloro-2-Butene



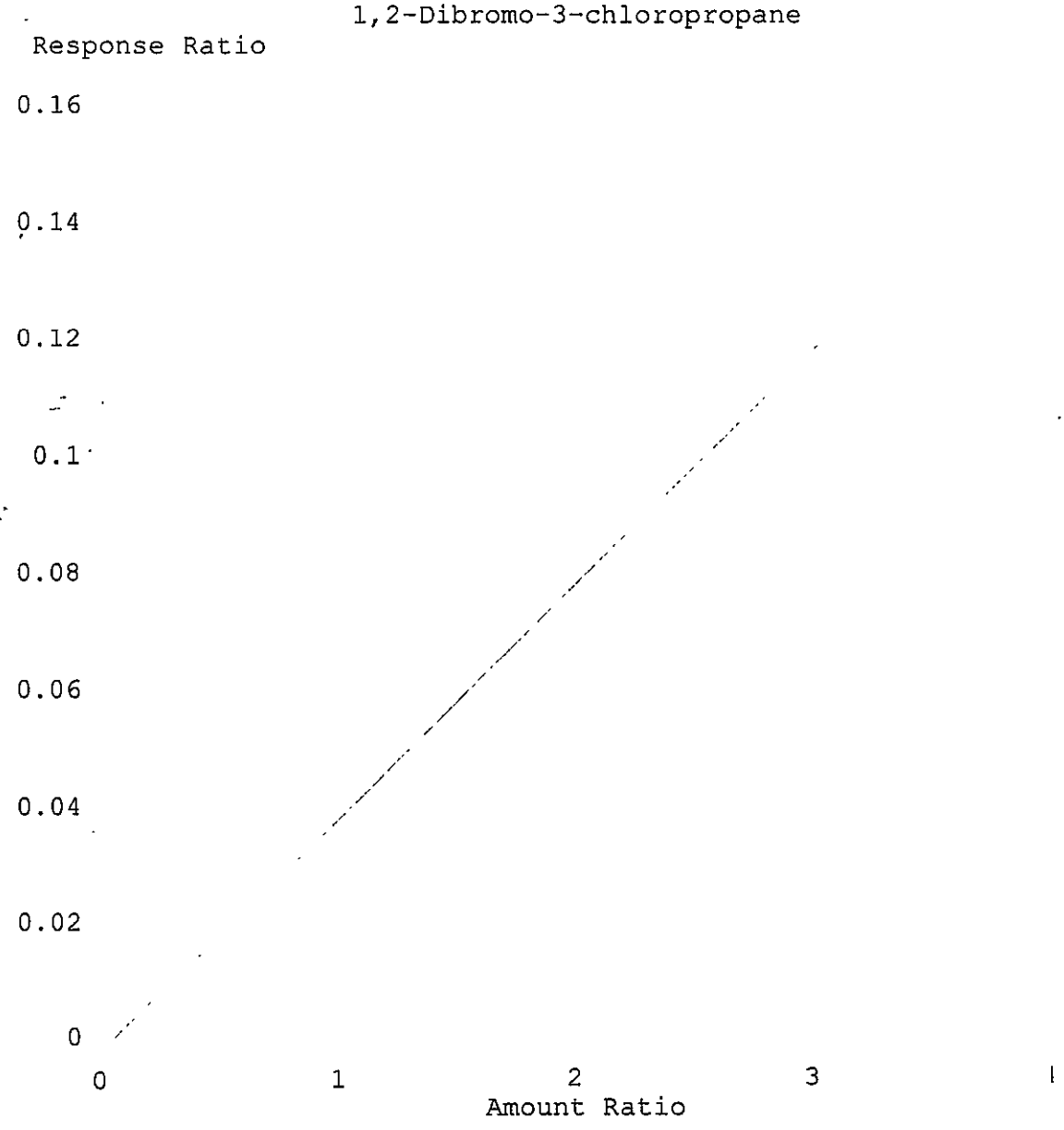
Resp Ratio = 8.13e-002 * Amt - 1.16e-002
Coef of Det (r^2) = 0.996 Curve Fit: Linear

Method Name: C:\HPCHEM\1\DATA\052501\05250125.M
Calibration Table Last Updated: Sat May 26 12:03:51 2001



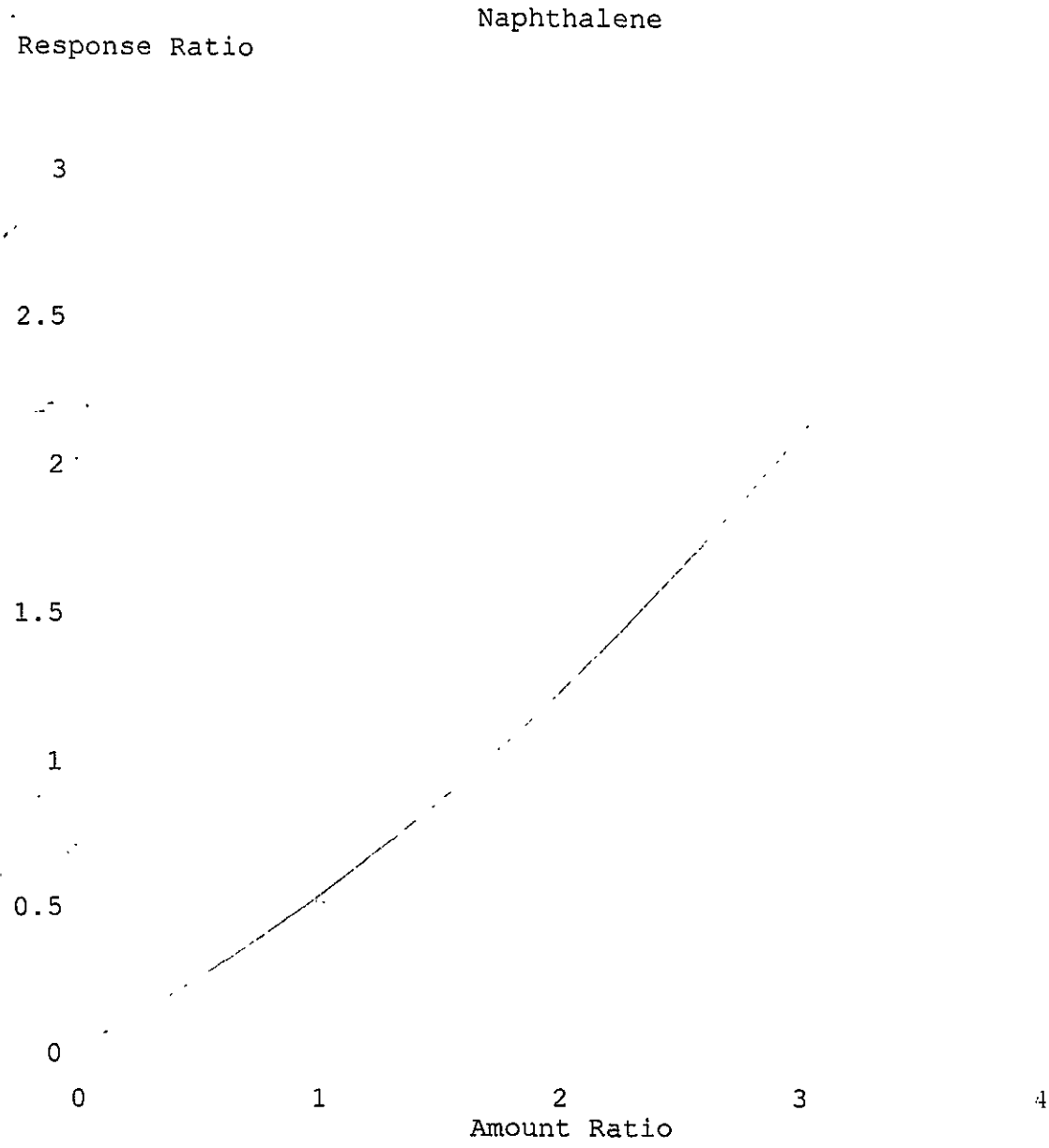
Resp Ratio = 4.47e-001 * Amt - 2.29e-002
Coef of Det (r^2) = 0.999 Curve Fit: Linear

Method Name: C:\HPCHEM\1\DATA\052501\05250125.M
Calibration Table Last Updated: Sat May 26 12:03:51 2001



Resp Ratio = 4.02e-002 * Amt - 2.60e-003
Coef of Det (r^2) = 0.999 Curve Fit: Linear

Method Name: C:\HPCHEM\1\DATA\052501\05250125.M
Calibration Table Last Updated: Sat May 26 12:03:51 2001



R = 9.02e-002 A*A + 4.28e-001 A + 2.71e-002
Curve Fit: Quadratic

Method Name: C:\HPCHEM\1\DATA\052501\05250125.M
Calibration Table Last Updated: Sat May 26 12:03:51 2001

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\052501\C20114.D Vial: 1
Acq On : 05/25/01 21:04 Operator: J VRF DAT
Sample : ICAL 1ppb (V01053,V01037) Inst : H.013
Misc : WATER 25ml Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 26 12:18 2001 Quant Results File: C250125.RES

Quant Method : C:\HPCHEM\1\DATA\052501\05250125.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Sat May 26 12:03:51 2001
Response via : Initial Calibration
DataAcq Meth : 05250125

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Pentafluorobenzene	6.98	168	357303	10.00	ug\L		0.02
45) Chlorobenzene-d5	12.33	117	432330	10.00	ug\L		0.00
61) 1,4-Dichlorobenzene-d4	15.57	152	150254	10.00	ug\L		0.00
88) 1,4-Difluorobenzene	8.13	116	828	10.00	ug\L		0.02
System Monitoring Compounds							
32) 1,2-Dichloroethane-d4	7.45	65	14745	1.04	ug\L		0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 10.40%#				
46) Toluene-d8	10.28	98	53324	0.84	ug\L		0.00
Spiked Amount 10.000	Range 87 - 104		Recovery = 8.40%#				
66) Bromofluorobenzene	13.97	95	14960	0.84	ug\L		0.00
Spiked Amount 10.000	Range 84 - 110		Recovery = 8.40%#				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.56	85	23464	0.96	ug\L		99
3) Chloromethane	1.74	50	18553	1.00	ug\L		99
4) Vinyl Chloride	1.85	62	16611	0.97	ug\L		99
5) Bromomethane	2.16	94	7345	1.84	ug\L		91
6) Chloroethane	2.27	64	8824	0.96	ug\L		91
7) Trichlorofluoromethane	2.53	101	26316	0.97	ug\L	#	100
8) Acrolein	3.08	56	392	2.30	ug\L	#	16
9) Acrylonitrile	4.32	53	2639	2.07	ug\L	#	90
10) 1,1-Dichloroethene	3.15	96	15142	0.90	ug\L		92
11) Acetone	3.33	58	711	-1.06	ug\L	#	29
12) Iodomethane	3.37	142	18986	0.84	ug\L		95
13) Allylchloride	3.66	39	19681	0.87	ug\L		98
14) Carbon Disulfide	3.44	76	55039	0.92	ug\L		99
15) Acetonitrile	3.65	41	21939	8.59	ug\L	#	97
16) Methylene Chloride	3.86	86	9606	1.06	ug\L		97
17) trans-1,2-Dichloroethene	4.24	96	16246	0.93	ug\L		96
18) MethylTertButylEther	4.25	73	15698	0.90	ug\L	#	88
19) 1,1-Dichloroethane	5.00	63	28565	0.97	ug\L		99
20) Vinyl Acetate	5.14	43	3768	1.88	ug\L	#	86
21) 2,2-Dichloropropane	6.02	77	19674	0.85	ug\L	#	71
22) cis-1,2-Dichloroethene	6.07	96	14915	0.92	ug\L		96
23) 2-Butanone	6.18	72	106	0.76	ug\L	#	1
24) Propionitrile	6.33	54	3953	9.60	ug\L	#	79
25) Methacrylonitrile	6.53	41	23128	8.97	ug\L		98
26) Bromochloromethane	6.49	128	4906	0.96	ug\L		92
27) Chloroform	6.66	83	30534	0.97	ug\L		100
28) 1,1,1-Trichloroethane	6.85	97	28762	0.89	ug\L		96
29) Carbon Tetrachloride	7.10	119	24677	0.89	ug\L		97

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\052501\C20114.D Vial: 1
Acq On : 05/25/01 21:04 Operator: C:/VRR/DAT
Sample : ICAL 1ppb (V01053,V01037) Inst : HP013
Misc : WATER 25ml Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 26 12:18 2001 Quant Results File: C 250125.RES

Quant Method : C:\HPCHEM\1\DATA\052501\05250125.M (RTE Integrate
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Sat May 26 12:03:51 2001
Response via : Initial Calibration
DataAcq Meth : 05250125

Compound	R.T.	QIon	Response	Conc Unit		Qvalue
30) 1,4-Dioxane	9.11	88	198	28.64 ug\L	#	12
31) 1,1-Dichloropropene	7.14	77	7825	0.95 ug\L		94
33) Benzene	7.47	78	60096	0.96 ug\L		100
34) Isobutyl alcohol	7.60	43	940	33.12 ug\L	#	59
35) 1,2-Dichloroethane	7.57	62	16040	1.00 ug\L	#	95
36) Trichloroethene	8.49	95	20532	0.99 ug\L		99
37) 1,2-Dichloropropane	8.85	63	11707	0.94 ug\L	#	92
38) Dibromomethane	9.06	93	5141	0.97 ug\L		96
39) Methylmethacrylate	9.06	69	2141	1.80 ug\L		90
40) Bromodichloromethane	9.30	83	15988	0.90 ug\L		95
41) 2-Nitropropane	9.36	43	153	2.45 ug\L		88
42) 2-Chloroethyl-vinyl ether	9.74	63	1000	2.40 ug\L	#	80
43) cis-1,3-Dichloropropene	9.94	75	12760	0.79 ug\L		98
44) 4-Methyl-2-Pentanone	10.18	85	244	2.01 ug\L	#	1
47) Toluene	10.37	92	35930	0.87 ug\L		93
48) trans-1,3-Dichloropropene	10.75	75	7605	1.57 ug\L		95
49) Ethylmethacrylate	10.87	69	4290	1.63 ug\L		92
50) 1,1,2-Trichloroethane	11.02	83	5481	0.93 ug\L		95
51) Tetrachloroethene	11.13	164	28164	1.04 ug\L		99
52) 1,3-Dichloropropane	11.24	76	11818	0.94 ug\L		98
53) 2-Hexanone	11.37	43	1533	1.88 ug\L	#	71
54) Dibromochloromethane	11.56	129	7261	0.79 ug\L		98
55) 1,2-Dibromoethane	11.71	107	4762	0.86 ug\L	#	96
56) Chlorobenzene	12.37	112	40898	0.96 ug\L		92
57) 1,1,1,2-Tetrachloroethane	12.50	131	12143	0.91 ug\L		99
58) Ethylbenzene	12.50	91	75517	0.90 ug\L		98
59) total-Xylene	12.67	106	68433m	2.51 ug\L		
60) Styrene	13.25	104	28355	0.74 ug\L		98
62) Bromoform	13.56	173	2478	2.07 ug\L	#	96
63) Isopropylbenzene	13.72	105	55334	0.86 ug\L		99
64) cis-1,4-dichloro-2-Butene	13.89	53	702	1.86 ug\L	#	74
65) trans-1,4-dichloro-2-Buten	14.29	53	1154	0.80 ug\L	#	11
67) Bromobenzene	14.18	156	10435	0.89 ug\L		96
68) 1,1,2,2-Tetrachloroethane	14.23	83	4051	0.79 ug\L	#	98
69) 1,2,3-Trichloropropane	14.27	75	5799	0.99 ug\L		85
70) n-Propylbenzene	14.29	91	67859	0.86 ug\L		98
71) 2-Chlorotoluene	14.44	91	44012	0.91 ug\L		99
72) 4-Chlorotoluene	14.58	91	49827	0.97 ug\L		94
73) 1,3,5-Trimethylbenzene	14.54	105	50924	0.87 ug\L		97
74) Pentachloroethane	15.06	167	221	0.60 ug\L	#	75
75) tert-Butylbenzene	14.99	119	38393	0.87 ug\L		95
76) 1,2,4-Trimethylbenzene	15.05	105	46457	0.85 ug\L		95

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\052501\C20114.D Vial: 1
Acq On : 05/25/01 21:04 Operator: [illegible]/VRR/DAT
Sample : ICAL 1ppb (V01053,V01037) Inst : H[illegible]13
Misc : WATER 25ml Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 26 12:18 2001 Quant Results File: C[illegible]250125.RES

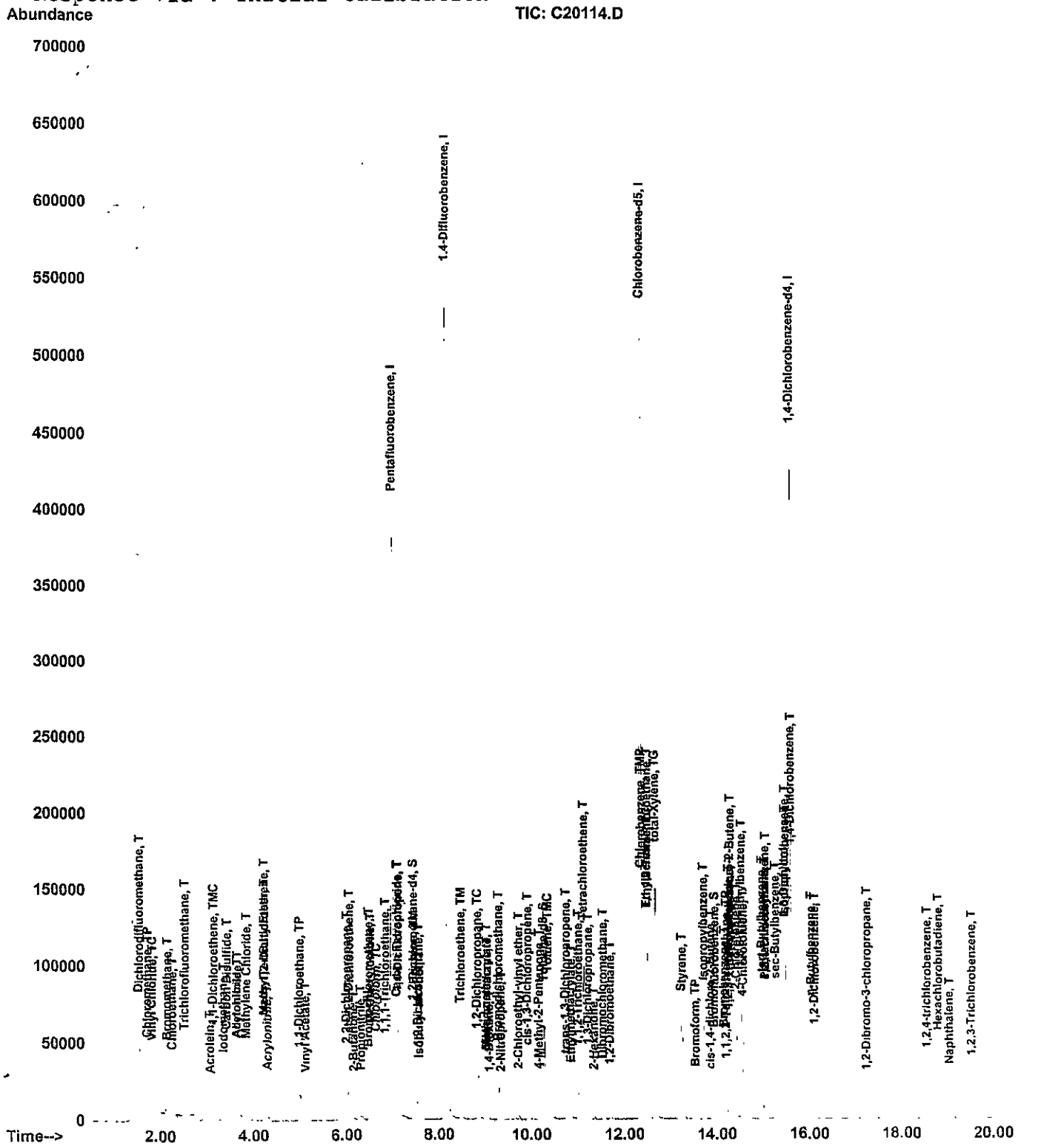
Quant Method : C:\HPCHEM\1\DATA\052501\05250125.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Sat May 26 12:03:51 2001
Response via : Initial Calibration
DataAcq Meth : 05250125

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
77) sec-Butylbenzene	15.29	105	56761	0.86 ug\L	100
78) 1,3-Dichlorobenzene	15.48	146	22792	0.96 ug\L	96
79) Isopropyltoluene	15.48	119	43132	0.83 ug\L	99
80) 1,4-Dichlorobenzene	15.60	146	21764	0.95 ug\L	95
81) 1,2-Dichlorobenzene	16.13	146	16148	0.90 ug\L	96
82) n-Butylbenzene	16.05	91	35968	0.74 ug\L	98
83) 1,2-Dibromo-3-chloropropan	17.25	75	345	1.10 ug\L	85
84) 1,2,4-trichlorobenzene	18.58	180	8077	0.82 ug\L	100
85) Hexachlorobutadiene	18.82	225	10304	1.04 ug\L	100
86) Naphthalene	19.06	128	7722	0.56 ug\L	100
87) 1,2,3-Trichlorobenzene	19.54	180	5855	0.80 ug\L	96

(#) = qualifier out of range (m) = manual integration

Data File : C:\HPCHEM\1\DATA\052501\C20114.D Vial: .
Acq On : 05/25/01 21:04 Operator: [illegible]
Sample : ICAL 1ppb (V01053,V01037) Inst : [illegible]
Misc : WATER 25ml Multiplr: [illegible]
MS Integration Params: rteint.p
Quant Time: May 26 12:18 2001 Quant Results File: [illegible]

Method : C:\HPCHEM\1\DATA\052501\05250125.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Sat May 26 12:03:51 2001
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\052501\C20111.D Vial: 1
Acq On : 05/25/01 19:47 Operator: CN/VRR/DAT
Sample : ICAL 4ppb (V01053,V01037) Inst : HP013
Misc : WATER 25ml Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 25 20:08 2001 Quant Results File: C250125.RES

Quant Method : C:\HPCHEM\1\DATA\052501\05250125.M (RTE Integrate
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Thu May 17 14:02:09 2001
Response via : Initial Calibration
DataAcq Meth : 05250125

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Pentafluorobenzene	6.98	168	449364	10.00	ug\L		0.00
45) Chlorobenzene-d5	12.33	117	492887	10.00	ug\L		-0.02
61) 1,4-Dichlorobenzene-d4	15.57	152	195735	10.00	ug\L		-0.02
88) 1.4-Difluorobenzene	8.12	116	883	10.00	ug\L		-0.03
System Monitoring Compounds							
32) 1,2-Dichloroethane-d4	7.45	65	69883	4.26	ug\L		0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 42.60%#				
46) Toluene-d8	10.28	98	306518	4.25	ug\L		-0.02
Spiked Amount 10.000	Range 87 - 104		Recovery = 42.50%#				
66) Bromofluorobenzene	13.98	95	97776	4.56	ug\L		0.00
Spiked Amount 10.000	Range 84 - 110		Recovery = 45.60%#				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.56	85	129318	3.10	ug\L		99
3) Chloromethane	1.75	50	96979	3.05	ug\L		96
4) Vinyl Chloride	1.85	62	89125	3.56	ug\L		100
5) Bromomethane	2.17	94	25269	3.14	ug\L		97
6) Chloroethane	2.27	64	46879	3.75	ug\L		99
7) Trichlorofluoromethane	2.54	101	138076	4.27	ug\L	#	100
8) Acrolein	3.10	56	5300	6.75	ug\L	#	100
9) Acrylonitrile	4.32	53	11094	6.18	ug\L		88
10) 1,1-Dichloroethene	3.16	96	86130	3.71	ug\L		99
11) Acetone	3.31	58	3474	6.35	ug\L		85
12) Iodomethane	3.38	142	107013	3.54	ug\L		99
13) Allylchloride	3.67	39	113828	4.03	ug\L		97
14) Carbon Disulfide	3.44	76	294407	3.69	ug\L		99
15) Acetonitrile	3.67	41	127918	36.15	ug\L		97
16) Methylene Chloride	3.87	86	46078	3.35	ug\L		98
17) trans-1,2-Dichloroethene	4.25	96	88874	3.69	ug\L		98
18) MethylTertButylEther	4.25	73	85797	3.74	ug\L		98
19) 1,1-Dichloroethane	5.00	63	148722	3.80	ug\L		100
20) Vinyl Acetate	5.15	43	46152	3.81	ug\L		98
21) 2,2-Dichloropropane	6.03	77	114479	3.69	ug\L		98
22) cis-1,2-Dichloroethene	6.08	96	80926	3.61	ug\L		100
23) 2-Butanone	6.18	72	1759	3.75	ug\L	#	93
24) Propionitrile	6.33	54	19929	35.79	ug\L	#	93
25) Methacrylonitrile	6.54	41	125563	36.39	ug\L		98
26) Bromochloromethane	6.51	128	25113	3.62	ug\L		91
27) Chloroform	6.66	83	156572	3.96	ug\L		99
28) 1,1,1-Trichloroethane	6.86	97	160547	4.14	ug\L		99
29) Carbon Tetrachloride	7.11	119	135878	4.28	ug\L		96

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\052501\C20111.D Vial: 1
Acq On : 05/25/01 19:47 Operator: J.VRR/DAT
Sample : ICAL 4ppb (V01053,V01037) Inst : HP013
Misc : WATER 25ml Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 25 20:08 2001 Quant Results File: C:250125.RES

Quant Method : C:\HPCHEM\1\DATA\052501\05250125.M (RTE Integrato
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Thu May 17 14:02:09 2001
Response via : Initial Calibration
DataAcq Meth : 05250125

	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
30)	1,4-Dioxane	9.12	88	2616	63.32 ug\L	#	69
31)	1,1-Dichloropropene	7.13	77	41947	3.76 ug\L		97
33)	Benzene	7.47	78	320107	3.68 ug\L		100
34)	Isobutyl alcohol	7.58	43	10306	92.83 ug\L		96
35)	1,2-Dichloroethane	7.58	62	80242	4.15 ug\L		100
36)	Trichloroethene	8.49	95	103481	3.91 ug\L		98
37)	1,2-Dichloropropane	8.86	63	62431	3.60 ug\L		98
38)	Dibromomethane	9.06	93	25444	3.91 ug\L		97
39)	Methylmethacrylate	9.06	69	11626	2.89 ug\L		88
40)	Bromodichloromethane	9.31	83	81719	3.90 ug\L		98
41)	2-Nitropropane	9.67	43	3786	4.90 ug\L		98
42)	2-Chloroethyl-vinyl ether	9.75	63	6871	3.31 ug\L		97
43)	cis-1,3-Dichloropropene	9.94	75	72320	3.64 ug\L		98
44)	4-Methyl-2-Pentanone	10.18	85	2703	4.19 ug\L	#	94
47)	Toluene	10.37	92	203033	4.18 ug\L		100
48)	trans-1,3-Dichloropropene	10.76	75	43700	4.17 ug\L		100
49)	Ethylmethacrylate	10.86	69	28502	3.58 ug\L		92
50)	1,1,2-Trichloroethane	11.02	83	26944	4.23 ug\L		97
51)	Tetrachloroethene	11.13	164	83775	4.63 ug\L		99
52)	1,3-Dichloropropane	11.24	76	59104	4.24 ug\L		99
53)	2-Hexanone	11.36	43	9467	4.60 ug\L	#	95
54)	Dibromochloromethane	11.57	129	37751	4.84 ug\L		97
55)	1,2-Dibromoethane	11.71	107	25301	4.26 ug\L	#	97
56)	Chlorobenzene	12.37	112	207425	4.24 ug\L		97
57)	1,1,1,2-Tetrachloroethane	12.50	131	62147	4.61 ug\L		99
58)	Ethylbenzene	12.50	91	414043	4.34 ug\L		100
59)	total-Xylene	12.67	106	406973m	12.63 ug\L		
60)	Styrene	13.26	104	184431	4.12 ug\L		97
62)	Bromoform	13.57	173	14590	5.25 ug\L		97
63)	Isopropylbenzene	13.72	105	375002	4.02 ug\L		100
64)	cis-1,4-dichloro-2-Butene	13.89	53	4618	4.25 ug\L	#	95
65)	trans-1,4-dichloro-2-Buten	14.29	53	7472	4.13 ug\L	#	99
67)	Bromobenzene	14.19	156	63392	4.09 ug\L	#	93
68)	1,1,2,2-Tetrachloroethane	14.23	83	27800	3.90 ug\L		95
69)	1,2,3-Trichloropropane	14.28	75	30578	4.18 ug\L	#	100
70)	n-Propylbenzene	14.29	91	465529	4.11 ug\L		100
71)	2-Chlorotoluene	14.43	91	274452	4.28 ug\L		99
72)	4-Chlorotoluene	14.59	91	281131	4.21 ug\L		95
73)	1,3,5-Trimethylbenzene	14.54	105	335125	4.42 ug\L		99
74)	Pentachloroethane	15.06	167	34382	4.41 ug\L		98
75)	tert-Butylbenzene	14.99	119	265354	4.25 ug\L		99
76)	1,2,4-Trimethylbenzene	15.06	105	311658	4.40 ug\L		99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\052501\C20111.D Vial: [illegible]
Acq On : 05/25/01 19:47 Operator: [illegible]
Sample : ICAL 4ppb (V01053,V01037) Inst : [illegible]
Misc : WATER 25ml Multiplr: [illegible]
MS Integration Params: rteint.p
Quant Time: May 25 20:08 2001 Quant Results File: [illegible]

Quant Method : C:\HPCHEM\1\DATA\052501\05250125.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Thu May 17 14:02:09 2001
Response via : Initial Calibration
DataAcq Meth : 05250125

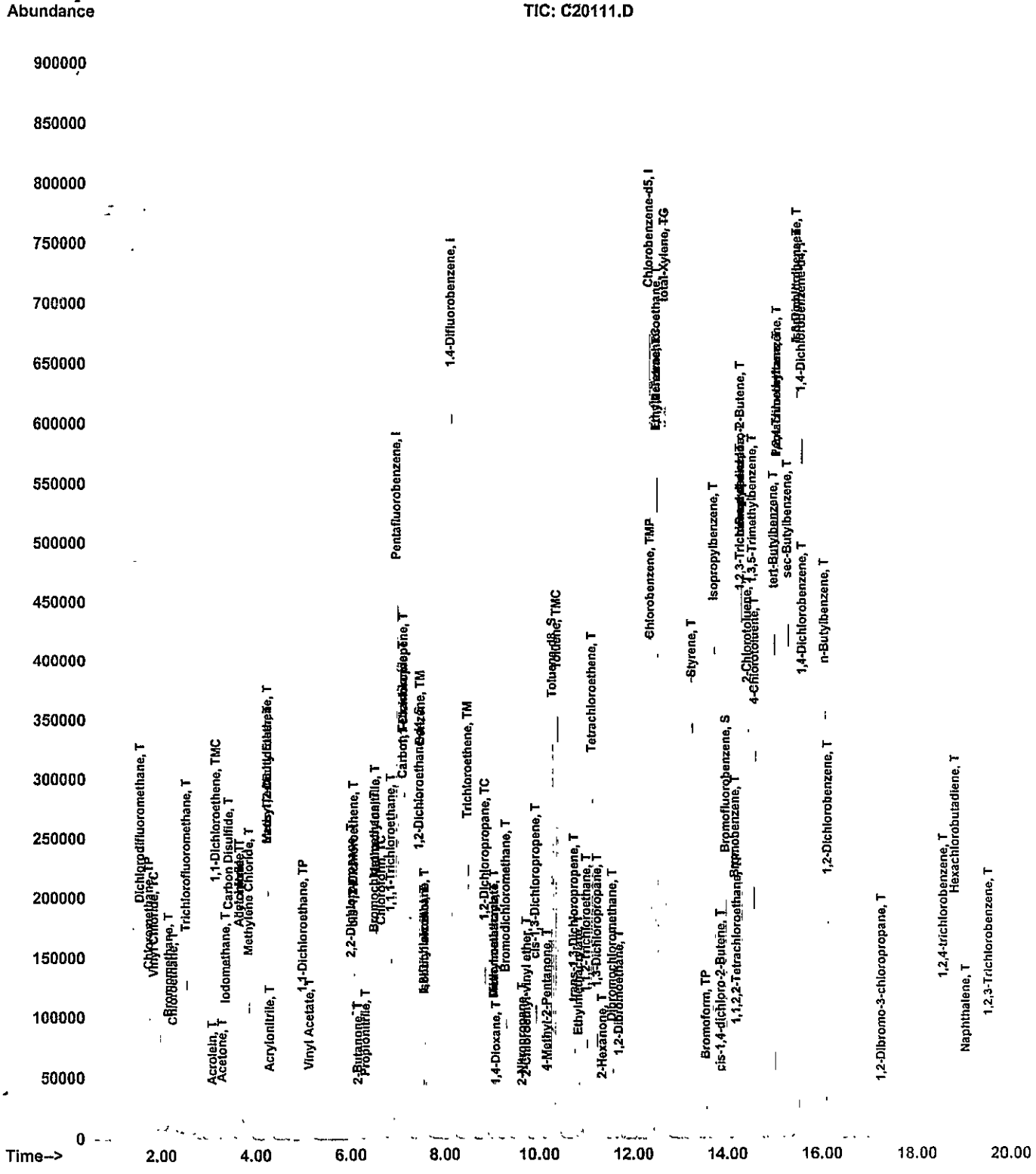
Compound	R.T.	QIon	Response	Conc Unit	Qvalue
77) sec-Butylbenzene	15.29	105	394280	4.10 ug\L	100
78) 1,3-Dichlorobenzene	15.48	146	132569	4.26 ug\L	99
79) Isopropyltoluene	15.49	119	299263	4.17 ug\L	98
80) 1,4-Dichlorobenzene	15.61	146	126273	4.16 ug\L	98
81) 1,2-Dichlorobenzene	16.13	146	98655	4.17 ug\L	98
82) n-Butylbenzene	16.06	91	269775	4.01 ug\L	99
83) 1,2-Dibromo-3-chloropropan	17.27	75	3036	6.15 ug\L	94
84) 1,2,4-trichlorobenzene	18.58	180	52814	4.33 ug\L	100
85) Hexachlorobutadiene	18.82	225	58657	5.83 ug\L	100
86) Naphthalene	19.06	128	49079	4.21 ug\L	100
87) 1,2,3-Trichlorobenzene	19.55	180	40099	4.55 ug\L	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\052501\C20111.D Vial: 1
Acq On : 05/25/01 19:47 Operator: JW/VRR/DAT
Sample : ICAL 4ppb (V01053,V01037) Inst : HP013
Misc : WATER 25ml Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 25 20:08 2001 Quant Results File: C250125.RES

Method : C:\HPCHEM\1\DATA\052501\05250125.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Sat May 26 12:03:51 2001
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\052501\C20110.D Vial: 1
Acq On : 05/25/01 19:21 Operator: CW/VRR/DAT
Sample : ICAL 10ppb (V01053,V01037) Inst : HP013
Misc : WATER 25ml Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 25 19:43 2001 Quant Results File: C\250125.RES

Quant Method : C:\HPCHEM\1\DATA\052501\05250125.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Thu May 17 14:02:09 2001
Response via : Initial Calibration
DataAcq Meth : 05250125

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Pentafluorobenzene	6.97	168	479067	10.00	ug\L		-0.03
45) Chlorobenzene-d5	12.33	117	519100	10.00	ug\L		-0.01
61) 1,4-Dichlorobenzene-d4	15.57	152	212938	10.00	ug\L		-0.01
88) 1.4-Difluorobenzene	8.11	116	1270	10.00	ug\L		-0.04
System Monitoring Compounds							
32) 1,2-Dichloroethane-d4	7.45	65	178390	10.20	ug\L		-0.01
Spiked Amount 10.000	Range 80 - 120		Recovery = 102.00%				
46) Toluene-d8	10.27	98	816928	10.75	ug\L		-0.02
Spiked Amount 10.000	Range 87 - 104		Recovery = 107.50%#				
66) Bromofluorobenzene	13.97	95	252912	10.84	ug\L		-0.01
Spiked Amount 10.000	Range 84 - 110		Recovery = 108.40%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.55	85	355367	7.99	ug\L		99
3) Chloromethane	1.74	50	266296	7.86	ug\L		99
4) Vinyl Chloride	1.84	62	241425	9.05	ug\L		100
5) Bromomethane	2.16	94	61150	7.03	ug\L		97
6) Chloroethane	2.26	64	130134	9.76	ug\L		98
7) Trichlorofluoromethane	2.53	101	366931	10.65	ug\L	#	100
8) Acrolein	3.09	56	13951	16.67	ug\L	#	100
9) Acrylonitrile	4.31	53	32086	16.77	ug\L		98
10) 1,1-Dichloroethene	3.15	96	238442	9.64	ug\L		96
11) Acetone	3.30	58	6169	10.57	ug\L		83
12) Iodomethane	3.36	142	314087	9.75	ug\L		99
13) Allylchloride	3.65	39	307952	10.22	ug\L		96
14) Carbon Disulfide	3.43	76	827726	9.74	ug\L		99
15) Acetonitrile	3.65	41	352011	93.32	ug\L		96
16) Methylene Chloride	3.86	86	121668	9.12	ug\L		100
17) trans-1,2-Dichloroethene	4.24	96	246502	9.60	ug\L		98
18) MethylTertButylEther	4.24	73	219713	8.99	ug\L		97
19) 1,1-Dichloroethane	4.99	63	387873	9.30	ug\L		100
20) Vinyl Acetate	5.13	43	123262	7.72	ug\L		100
21) 2,2-Dichloropropane	6.01	77	336142	10.16	ug\L		100
22) cis-1,2-Dichloroethene	6.06	96	218697	9.15	ug\L		99
23) 2-Butanone	6.17	72	4261	8.52	ug\L		100
24) Propionitrile	6.32	54	48560	81.81	ug\L	#	97
25) Methacrylonitrile	6.52	41	331142	90.02	ug\L		97
26) Bromochloromethane	6.50	128	67948	9.19	ug\L		96
27) Chloroform	6.65	83	408998	9.70	ug\L		98
28) 1,1,1-Trichloroethane	6.85	97	441656	10.69	ug\L		99
29) Carbon Tetrachloride	7.10	119	379463	11.20	ug\L		98

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\052501\C20110.D Vial: .
Acq On : 05/25/01 19:21 Operator: [illegible]
Sample : ICAL 10ppb (V01053,V01037) Inst : H[illegible]013
Misc : WATER 25ml Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 25 19:43 2001 Quant Results File: C 250125.RES

Quant Method : C:\HPCHEM\1\DATA\052501\05250125.M (RTE Integrate
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Thu May 17 14:02:09 2001
Response via : Initial Calibration
DataAcq Meth : 05250125

	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
30)	1,4-Dioxane	9.10	88	7000	158.94 ug\L	#	83
31)	1,1-Dichloropropene	7.12	77	113107	9.51 ug\L		97
33)	Benzene	7.46	78	834731	9.01 ug\L		100
34)	Isobutyl alcohol	7.59	43	21703	155.42 ug\L	#	84
35)	1,2-Dichloroethane	7.57	62	205263	9.96 ug\L		99
36)	Trichloroethene	8.48	95	274484	9.72 ug\L		99
37)	1,2-Dichloropropane	8.85	63	157101	8.50 ug\L		100
38)	Dibromomethane	9.05	93	66463	9.58 ug\L		99
39)	Methylmethacrylate	9.05	69	33742	7.87 ug\L		97
40)	Bromodichloromethane	9.30	83	222491	9.96 ug\L		99
41)	2-Nitropropane	9.67	43	9436	9.70 ug\L		88
42)	2-Chloroethyl-vinyl ether	9.74	63	18868	6.19 ug\L		96
43)	cis-1,3-Dichloropropene	9.93	75	206616	8.55 ug\L		100
44)	4-Methyl-2-Pentanone	10.17	85	6382	7.51 ug\L	#	84
47)	Toluene	10.36	92	537539	10.51 ug\L		99
48)	trans-1,3-Dichloropropene	10.75	75	130461	10.11 ug\L		100
49)	Ethylmethacrylate	10.86	69	82281	9.81 ug\L		99
50)	1,1,2-Trichloroethane	11.02	83	70712	10.54 ug\L		95
51)	Tetrachloroethene	11.13	164	224866	11.79 ug\L		99
52)	1,3-Dichloropropane	11.24	76	152868	10.40 ug\L		100
53)	2-Hexanone	11.36	43	24107	9.12 ug\L		98
54)	Dibromochloromethane	11.57	129	109202	11.30 ug\L		99
55)	1,2-Dibromoethane	11.71	107	68043	10.88 ug\L		99
56)	Chlorobenzene	12.37	112	520088	10.10 ug\L		98
57)	1,1,1,2-Tetrachloroethane	12.49	131	164394	11.58 ug\L		99
58)	Ethylbenzene	12.50	91	1090366	10.86 ug\L		100
59)	total-Xylene	12.67	106	1070532m	31.55 ug\L		
60)	Styrene	13.26	104	496492	10.52 ug\L		99
62)	Bromoform	13.56	173	43024	10.99 ug\L		99
63)	Isopropylbenzene	13.73	105	1020440	10.06 ug\L		100
64)	cis-1,4-dichloro-2-Butene	13.88	53	13882	9.50 ug\L	#	97
65)	trans-1,4-dichloro-2-Buten	14.29	53	19921	10.13 ug\L	#	89
67)	Bromobenzene	14.18	156	168548	10.00 ug\L		96
68)	1,1,2,2-Tetrachloroethane	14.23	83	70528	9.09 ug\L		97
69)	1,2,3-Trichloropropane	14.28	75	81387	10.24 ug\L	#	100
70)	n-Propylbenzene	14.29	91	1232929	10.00 ug\L		99
71)	2-Chlorotoluene	14.44	91	728543	10.45 ug\L		99
72)	4-Chlorotoluene	14.59	91	721302	9.93 ug\L		95
73)	1,3,5-Trimethylbenzene	14.54	105	910490	11.04 ug\L		100
74)	Pentachloroethane	15.06	167	92211	10.87 ug\L		98
75)	tert-Butylbenzene	14.98	119	704252	10.36 ug\L		100
76)	1,2,4-Trimethylbenzene	15.06	105	849933	11.02 ug\L		100

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\052501\C20110.D Vial: 1
Acq On : 05/25/01 19:21 Operator: JV/VRR/DAT
Sample : ICAL 10ppb (V01053,V01037) Inst : HP013
Misc : WATER 25ml Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 25 19:43 2001 Quant Results File: C250125.RES

Quant Method : C:\HPCHEM\1\DATA\052501\05250125.M (RTE Integrate
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Thu May 17 14:02:09 2001
Response via : Initial Calibration
DataAcq Meth : 05250125

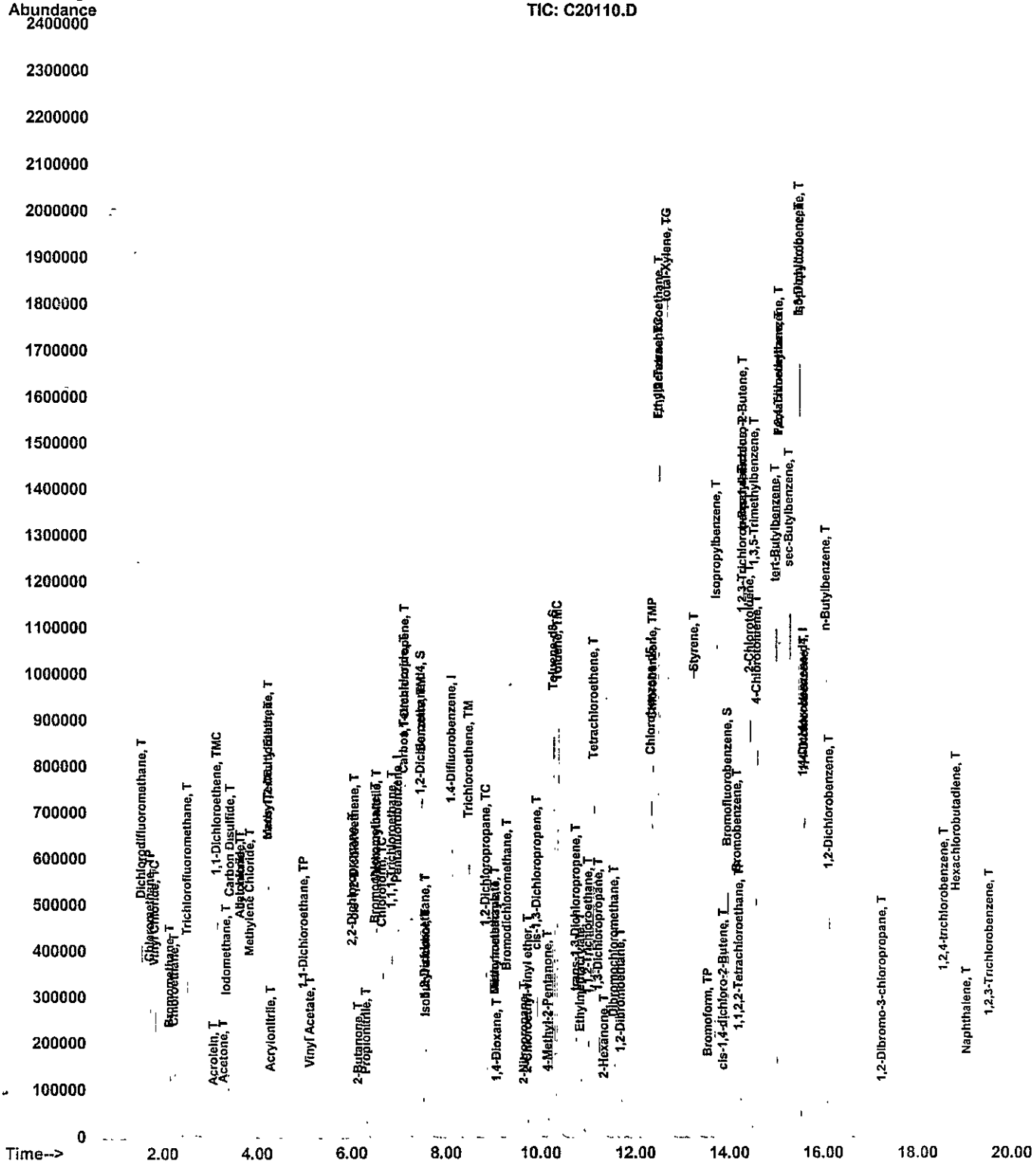
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
77)	sec-Butylbenzene	15.28	105	1059256	10.12	ug\L	100
78)	1,3-Dichlorobenzene	15.48	146	347571	10.28	ug\L	99
79)	Isopropyltoluene	15.48	119	847999	10.86	ug\L	100
80)	1,4-Dichlorobenzene	15.60	146	330002	10.00	ug\L	99
81)	1,2-Dichlorobenzene	16.13	146	255914	9.95	ug\L	99
82)	n-Butylbenzene	16.05	91	774495	10.59	ug\L	99
83)	1,2-Dibromo-3-chloropropan	17.26	75	7624	12.16	ug\L	97
84)	1,2,4-trichlorobenzene	18.57	180	142170	10.71	ug\L	100
85)	Hexachlorobutadiene	18.83	225	156516	14.30	ug\L	100
86)	Naphthalene	19.06	128	116038	10.05	ug\L	100
87)	1,2,3-Trichlorobenzene	19.55	180	100962	10.53	ug\L	98

(#) = qualifier out of range (m) = manual integration
C20110.D 05250125.M Sat May 26 13:51:04 2001 Page

Quantitation Report

Data File : C:\HPCHEM\1\DATA\052501\C20110.D Vial: 1
Acq On : 05/25/01 19:21 Operator: JW/VRB/DAT
Sample : ICAL 10ppb (V01053,V01037) Inst : HP013
Misc : WATER 25ml Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 25 19:43 2001 Quant Results File: 05250125.RES

Method : C:\HPCHEM\1\DATA\052501\05250125.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Sat May 26 12:03:51 2001
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\052501\C20115.D Vial: 1
Acq On : 05/25/01 21:30 Operator: [illegible]/VRR/DAT
Sample : ICAL 20ppb (V01053,V01037) Inst : [illegible]013
Misc : WATER 25ml Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 25 21:51 2001 Quant Results File: C[illegible]250125.RES

Quant Method : C:\HPCHEM\1\DATA\052501\05250125.M (RTE Integrate
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Thu May 17 14:02:09 2001
Response via : Initial Calibration
DataAcq Meth : 05250125

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Pentafluorobenzene	6.98	168	404149	10.00	ug\L		-0.01
45) Chlorobenzene-d5	12.33	117	483610	10.00	ug\L		-0.01
61) 1,4-Dichlorobenzene-d4	15.57	152	205803	10.00	ug\L		-0.01
88) 1.4-Difluorobenzene	8.16	116	54	10.00	ug\L		0.01
System Monitoring Compounds							
32) 1,2-Dichloroethane-d4	7.45	65	331692	22.49	ug\L		-0.01
Spiked Amount 10.000	Range 80 - 120		Recovery =	224.90%#			
46) Toluene-d8	10.27	98	1432559	20.23	ug\L		-0.02
Spiked Amount 10.000	Range 87 - 104		Recovery =	202.30%#			
66) Bromofluorobenzene	13.97	95	475994	21.12	ug\L		-0.01
Spiked Amount 10.000	Range 84 - 110		Recovery =	211.20%#			
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.56	85	528167	14.08	ug\L		99
3) Chloromethane	1.75	50	395524	13.84	ug\L		100
4) Vinyl Chloride	1.85	62	369652	16.43	ug\L		100
5) Bromomethane	2.17	94	117620	17.15	ug\L		99
6) Chloroethane	2.27	64	201627	17.92	ug\L		98
7) Trichlorofluoromethane	2.53	101	609410	20.96	ug\L	#	100
8) Acrolein	3.11	56	24619	34.87	ug\L	#	95
9) Acrylonitrile	4.31	53	62058	38.45	ug\L		96
10) 1,1-Dichloroethene	3.16	96	372465	17.85	ug\L		98
11) Acetone	3.32	58	8165	16.58	ug\L		78
12) Iodomethane	3.38	142	532062	19.59	ug\L		99
13) Allylchloride	3.66	39	525420	20.67	ug\L		99
14) Carbon Disulfide	3.44	76	1325150	18.49	ug\L		99
15) Acetonitrile	3.66	41	577326	181.42	ug\L		99
16) Methylene Chloride	3.86	86	198846	18.19	ug\L		98
17) trans-1,2-Dichloroethene	4.25	96	386888	17.86	ug\L		98
18) MethylTertButylEther	4.25	73	417388	20.24	ug\L		99
19) 1,1-Dichloroethane	5.01	63	666826	18.95	ug\L		100
20) Vinyl Acetate	5.14	43	275609	18.45	ug\L		98
21) 2,2-Dichloropropane	6.02	77	521880	18.70	ug\L		99
22) cis-1,2-Dichloroethene	6.08	96	372948	18.50	ug\L		99
23) 2-Butanone	6.17	72	7759	18.38	ug\L		81
24) Propionitrile	6.32	54	98485	196.67	ug\L		98
25) Methacrylonitrile	6.53	41	633043	204.00	ug\L		99
26) Bromochloromethane	6.50	128	120353	19.30	ug\L		94
27) Chloroform	6.66	83	728343	20.48	ug\L		99
28) 1,1,1-Trichloroethane	6.86	97	730178	20.95	ug\L		100
29) Carbon Tetrachloride	7.10	119	636593	22.28	ug\L		97

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\052501\C20115.D Vial: 2
Acq On : 05/25/01 21:30 Operator: CP/VRP/DAT
Sample : ICAL 20ppb (V01053,V01037) Inst : HP013
Misc : WATER 25ml Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 25 21:51 2001 Quant Results File: C250125.RES

Quant Method : C:\HPCHEM\1\DATA\052501\05250125.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Thu May 17 14:02:09 2001
Response via : Initial Calibration
DataAcq Meth : 05250125

	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
30)	1,4-Dioxane	9.11	88	14731	396.47 ug\L	#	91
31)	1,1-Dichloropropene	7.13	77	183785	18.31 ug\L		96
33)	Benzene	7.48	78	1414088	18.09 ug\L		100
34)	Isobutyl alcohol	7.59	43	47953	360.69 ug\L		90
35)	1,2-Dichloroethane	7.57	62	377334	21.71 ug\L		100
36)	Trichloroethene	8.49	95	460224	19.31 ug\L		99
37)	1,2-Dichloropropane	8.85	63	293737	18.83 ug\L		98
38)	Dibromomethane	9.05	93	130026	22.23 ug\L		95
39)	Methylmethacrylate	9.06	69	71349	19.72 ug\L		95
40)	Bromodichloromethane	9.31	83	434578	23.06 ug\L		98
41)	2-Nitropropane	9.67	43	24231	23.46 ug\L		92
42)	2-Chloroethyl-vinyl ether	9.75	63	43222	14.26 ug\L		95
43)	cis-1,3-Dichloropropene	9.94	75	405142	18.92 ug\L		99
44)	4-Methyl-2-Pentanone	10.17	85	14381	17.64 ug\L	#	83
47)	Toluene	10.37	92	915285	19.21 ug\L		100
48)	trans-1,3-Dichloropropene	10.76	75	277436	21.89 ug\L		99
49)	Ethylmethacrylate	10.86	69	175771	22.49 ug\L		93
50)	1,1,2-Trichloroethane	11.03	83	135497	21.68 ug\L		96
51)	Tetrachloroethene	11.13	164	371956	20.93 ug\L		99
52)	1,3-Dichloropropane	11.24	76	287380	21.00 ug\L		98
53)	2-Hexanone	11.36	43	55642	20.51 ug\L		98
54)	Dibromochloromethane	11.57	129	224431	23.55 ug\L		96
55)	1,2-Dibromoethane	11.71	107	130956	22.49 ug\L	#	98
56)	Chlorobenzene	12.37	112	943733	19.66 ug\L		99
57)	1,1,1,2-Tetrachloroethane	12.50	131	306972	23.21 ug\L		99
58)	Ethylbenzene	12.51	91	1850301	19.78 ug\L		100
59)	total-Xylene	12.67	106	1842523m	58.29 ug\L		
60)	Styrene	13.26	104	899219	20.46 ug\L		96
62)	Bromoform	13.57	173	99852	23.71 ug\L		100
63)	Isopropylbenzene	13.72	105	1708508	17.43 ug\L		100
64)	cis-1,4-dichloro-2-Butene	13.89	53	30711	20.10 ug\L	#	93
65)	trans-1,4-dichloro-2-Buten	14.29	53	43323	22.78 ug\L	#	66
67)	Bromobenzene	14.18	156	322775	19.81 ug\L		97
68)	1,1,2,2-Tetrachloroethane	14.23	83	147120	19.62 ug\L		95
69)	1,2,3-Trichloropropane	14.28	75	159867	20.80 ug\L	#	100
70)	n-Propylbenzene	14.30	91	2111894	17.72 ug\L		99
71)	2-Chlorotoluene	14.44	91	1310507	19.45 ug\L		100
72)	4-Chlorotoluene	14.59	91	1300186	18.51 ug\L		94
73)	1,3,5-Trimethylbenzene	14.54	105	1598920	20.07 ug\L		99
74)	Pentachloroethane	15.06	167	175679	21.43 ug\L		97
75)	tert-Butylbenzene	14.98	119	1181530	17.99 ug\L		97
76)	1,2,4-Trimethylbenzene	15.06	105	1534787	20.59 ug\L		98

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\052501\C20115.D Vial: 2
Acq On : 05/25/01 21:30 Operator: C''VRR.DAT
Sample : ICAL 20ppb (V01053,V01037) Inst : H 013
Misc : WATER 25ml Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 25 21:51 2001 Quant Results File: C 250125.RES

Quant Method : C:\HPCHEM\1\DATA\052501\05250125.M (RTE Integrate)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Thu May 17 14:02:09 2001
Response via : Initial Calibration
DataAcq Meth : 05250125

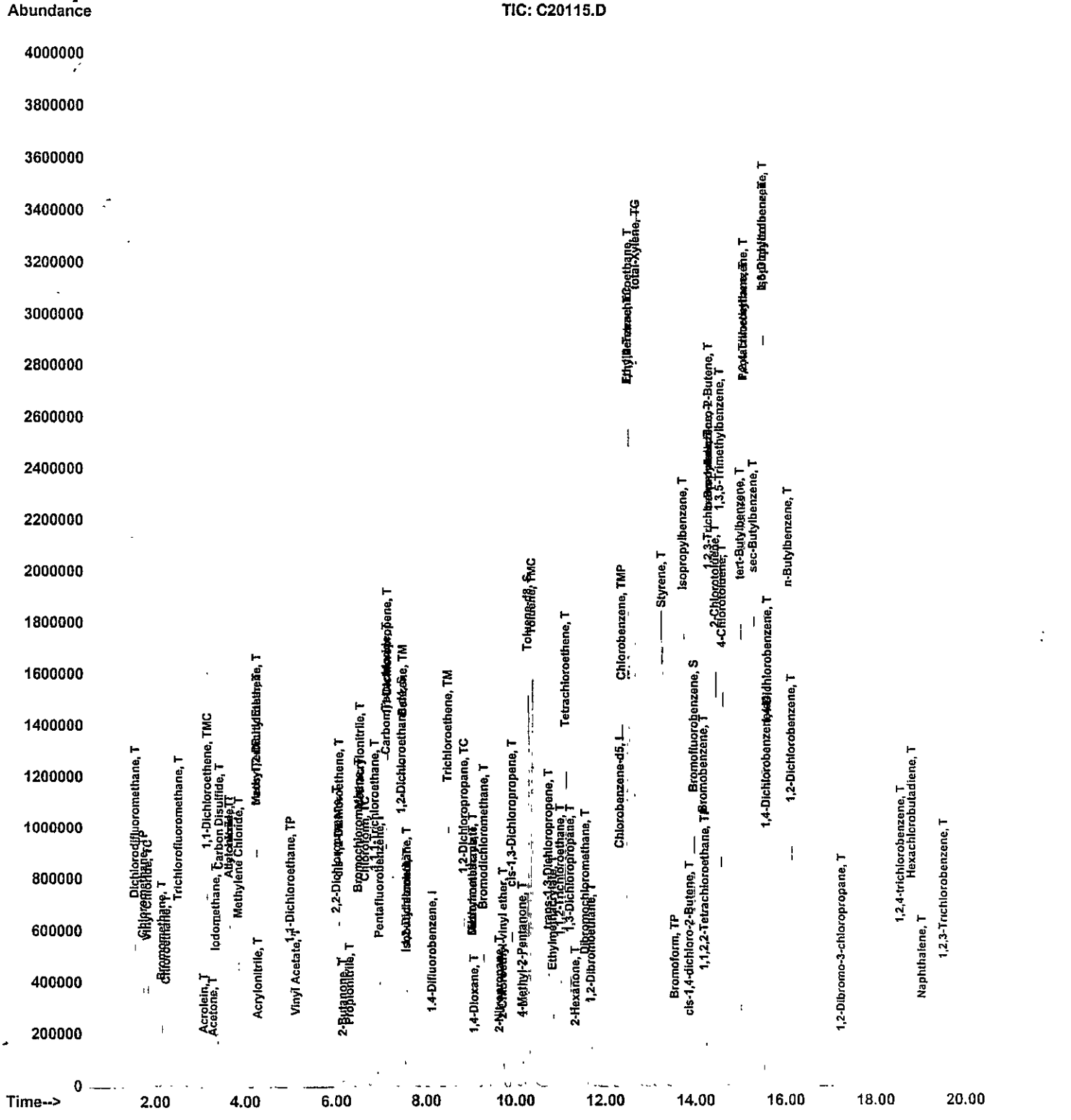
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
77)	sec-Butylbenzene	15.28	105	1774729	17.54	ug\L	99
78)	1,3-Dichlorobenzene	15.48	146	643829	19.69	ug\L	100
79)	Isopropyltoluene	15.48	119	1417837	18.79	ug\L	100
80)	1,4-Dichlorobenzene	15.60	146	623973	19.57	ug\L	99
81)	1,2-Dichlorobenzene	16.13	146	495380	19.93	ug\L	99
82)	n-Butylbenzene	16.05	91	1377934	19.50	ug\L	98
83)	1,2-Dibromo-3-chloropropan	17.25	75	15802	24.27	ug\L	95
84)	1,2,4-trichlorobenzene	18.57	180	257264	20.05	ug\L	100
85)	Hexachlorobutadiene	18.82	225	228058	21.55	ug\L	100
86)	Naphthalene	19.05	128	242724	19.45	ug\L	100
87)	1,2,3-Trichlorobenzene	19.54	180	190325	20.54	ug\L	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\052501\C20115.D Vial: [illegible]
Acq On : 05/25/01 21:30 Operator: [illegible]VRR'DAT
Sample : ICAL 20ppb (V01053,V01037) Inst : [illegible]013
Misc : WATER 25ml Multiplr: [illegible].00
MS Integration Params: rteint.p
Quant Time: May 25 21:51 2001 Quant Results File: [illegible]250125.RES

Method : C:\HPCHEM\1\DATA\052501\05250125.M (RTE Integrate
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Sat May 26 12:03:51 2001
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\052501\C20116.D Vial: 3
Acq On : 05/25/01 21:55 Operator: J'VRR/DAT
Sample : ICAL 30ppb (V01053,V01037) Inst : H-5013
Misc : WATER 25ml Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 25 22:16 2001 Quant Results File: C250125.RES

Quant Method : C:\HPCHEM\1\DATA\052501\05250125.M (RTE Integrate
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Thu May 17 14:02:09 2001
Response via : Initial Calibration
DataAcq Meth : 05250125

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Pentafluorobenzene	6.97	168	400068	10.00	ug\L		-0.02
45) Chlorobenzene-d5	12.33	117	492910	10.00	ug\L		-0.02
61) 1,4-Dichlorobenzene-d4	15.57	152	203915	10.00	ug\L		-0.02
88) 1.4-Difluorobenzene	8.12	116	948	10.00	ug\L		-0.04
System Monitoring Compounds							
32) 1,2-Dichloroethane-d4	7.45	65	492427	33.73	ug\L		-0.01
Spiked Amount 10.000	Range 80 - 120		Recovery =	337.30%	#		
46) Toluene-d8	10.27	98	2214298	30.68	ug\L		-0.02
Spiked Amount 10.000	Range 87 - 104		Recovery =	306.80%	#		
66) Bromofluorobenzene	13.97	95	718226	32.16	ug\L		-0.01
Spiked Amount 10.000	Range 84 - 110		Recovery =	321.60%	#		
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.55	85	828453	22.31	ug\L		99
3) Chloromethane	1.75	50	619226	21.89	ug\L		100
4) Vinyl Chloride	1.84	62	592925	26.62	ug\L		99
5) Bromomethane	2.17	94	194477	33.48	ug\L		98
6) Chloroethane	2.27	64	320479	28.77	ug\L		99
7) Trichlorofluoromethane	2.53	101	969676	33.69	ug\L	#	100
8) Acrolein	3.10	56	40630	58.14	ug\L	#	100
9) Acrylonitrile	4.31	53	88412	55.34	ug\L		92
10) 1,1-Dichloroethene	3.15	96	588058	28.47	ug\L		98
11) Acetone	3.32	58	12395	25.43	ug\L		84
12) Iodomethane	3.37	142	834124	31.02	ug\L		100
13) Allylchloride	3.65	39	818885	32.55	ug\L		96
14) Carbon Disulfide	3.44	76	2165093	30.51	ug\L		99
15) Acetonitrile	3.65	41	944159	299.72	ug\L		95
16) Methylene Chloride	3.86	86	302631	28.27	ug\L		100
17) trans-1,2-Dichloroethene	4.24	96	607415	28.32	ug\L		99
18) MethylTertButylEther	4.24	73	639864	31.34	ug\L		99
19) 1,1-Dichloroethane	5.00	63	1042914	29.94	ug\L		99
20) Vinyl Acetate	5.14	43	435183	28.71	ug\L		97
21) 2,2-Dichloropropane	6.01	77	859320	31.10	ug\L		100
22) cis-1,2-Dichloroethene	6.07	96	568498	28.49	ug\L		99
23) 2-Butanone	6.17	72	12637	30.24	ug\L		95
24) Propionitrile	6.32	54	150308	303.21	ug\L		97
25) Methacrylonitrile	6.53	41	926584	301.64	ug\L		99
26) Bromochloromethane	6.49	128	179734	29.11	ug\L		94
27) Chloroform	6.65	83	1107621	31.47	ug\L		100
28) 1,1,1-Trichloroethane	6.85	97	1164690	33.77	ug\L		98
29) Carbon Tetrachloride	7.10	119	1009558	35.69	ug\L		98

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\052501\C20116.D Vial: 3
Acq On : 05/25/01 21:55 Operator: [illegible]
Sample : ICAL 30ppb (V01053,V01037) Inst : [illegible]
Misc : WATER 25ml Multiplr: [illegible]
MS Integration Params: rteint.p
Quant Time: May 25 22:16 2001 Quant Results File: [illegible]

Quant Method : C:\HPCHEM\1\DATA\052501\05250125.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Thu May 17 14:02:09 2001
Response via : Initial Calibration
DataAcq Meth : 05250125

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
30)	1,4-Dioxane	9.11	88	23193	630.58	ug\L	#	85
31)	1,1-Dichloropropene	7.13	77	285532	28.74	ug\L		95
33)	Benzene	7.47	78	2184117	28.22	ug\L		100
34)	Isobutyl alcohol	7.57	43	78289	576.28	ug\L		95
35)	1,2-Dichloroethane	7.57	62	558094	32.43	ug\L		100
36)	Trichloroethene	8.48	95	722013	30.61	ug\L		98
37)	1,2-Dichloropropane	8.85	63	444326	28.78	ug\L		98
38)	Dibromomethane	9.05	93	190385	32.87	ug\L		97
39)	Methylmethacrylate	9.06	69	108820	30.38	ug\L		97
40)	Bromodichloromethane	9.31	83	659720	35.37	ug\L		99
41)	2-Nitropropane	9.67	43	38409	33.29	ug\L		88
42)	2-Chloroethyl-vinyl ether	9.74	63	71536	22.85	ug\L		97
43)	cis-1,3-Dichloropropene	9.93	75	628521	29.24	ug\L		99
44)	4-Methyl-2-Pentanone	10.18	85	22504	27.04	ug\L	#	87
47)	Toluene	10.37	92	1408400	29.00	ug\L		100
48)	trans-1,3-Dichloropropene	10.76	75	426732	32.57	ug\L		98
49)	Ethylmethacrylate	10.86	69	276323	34.69	ug\L		98
50)	1,1,2-Trichloroethane	11.02	83	203594	31.97	ug\L		97
51)	Tetrachloroethene	11.12	164	581049	32.08	ug\L		99
52)	1,3-Dichloropropane	11.24	76	434079	31.11	ug\L		99
53)	2-Hexanone	11.36	43	86872	30.66	ug\L		96
54)	Dibromochloromethane	11.57	129	345788	35.01	ug\L		98
55)	1,2-Dibromoethane	11.71	107	194496	32.77	ug\L		97
56)	Chlorobenzene	12.37	112	1421835	29.07	ug\L		99
57)	1,1,1,2-Tetrachloroethane	12.49	131	469457	34.82	ug\L		99
58)	Ethylbenzene	12.51	91	2788732	29.26	ug\L		99
59)	total-Xylene	12.67	106	2772754m	86.07	ug\L		
60)	Styrene	13.26	104	1333891	29.78	ug\L		97
62)	Bromoform	13.56	173	150753	35.14	ug\L		99
63)	Isopropylbenzene	13.73	105	2537544	26.13	ug\L		100
64)	cis-1,4-dichloro-2-Butene	13.88	53	45103	29.19	ug\L	#	90
65)	trans-1,4-dichloro-2-Buten	14.29	53	60727	32.23	ug\L	#	68
67)	Bromobenzene	14.18	156	479509	29.70	ug\L		97
68)	1,1,2,2-Tetrachloroethane	14.23	83	219362	29.52	ug\L		95
69)	1,2,3-Trichloropropane	14.28	75	237335	31.17	ug\L	#	100
70)	n-Propylbenzene	14.30	91	3058365	25.89	ug\L		100
71)	2-Chlorotoluene	14.44	91	1917011	28.72	ug\L		99
72)	4-Chlorotoluene	14.59	91	2173545	31.23	ug\L		100
73)	1,3,5-Trimethylbenzene	14.54	105	2352200	29.79	ug\L		99
74)	Pentachloroethane	15.06	167	266416	32.80	ug\L		95
75)	tert-Butylbenzene	14.98	119	1691791	25.99	ug\L		98
76)	1,2,4-Trimethylbenzene	15.06	105	2224389	30.11	ug\L		99

= qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\052501\C20116.D Vial: 3
Acq On : 05/25/01 21:55 Operator: [illegible]/VRR/DAT
Sample : ICAL 30ppb (V01053,V01037) Inst : H[illegible]013
Misc : WATER 25ml Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 25 22:16 2001 Quant Results File: C[illegible]250125.RES

Quant Method : C:\HPCHEM\1\DATA\052501\05250125.M (RTE Integrate
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Thu May 17 14:02:09 2001
Response via : Initial Calibration
DataAcq Meth : 05250125

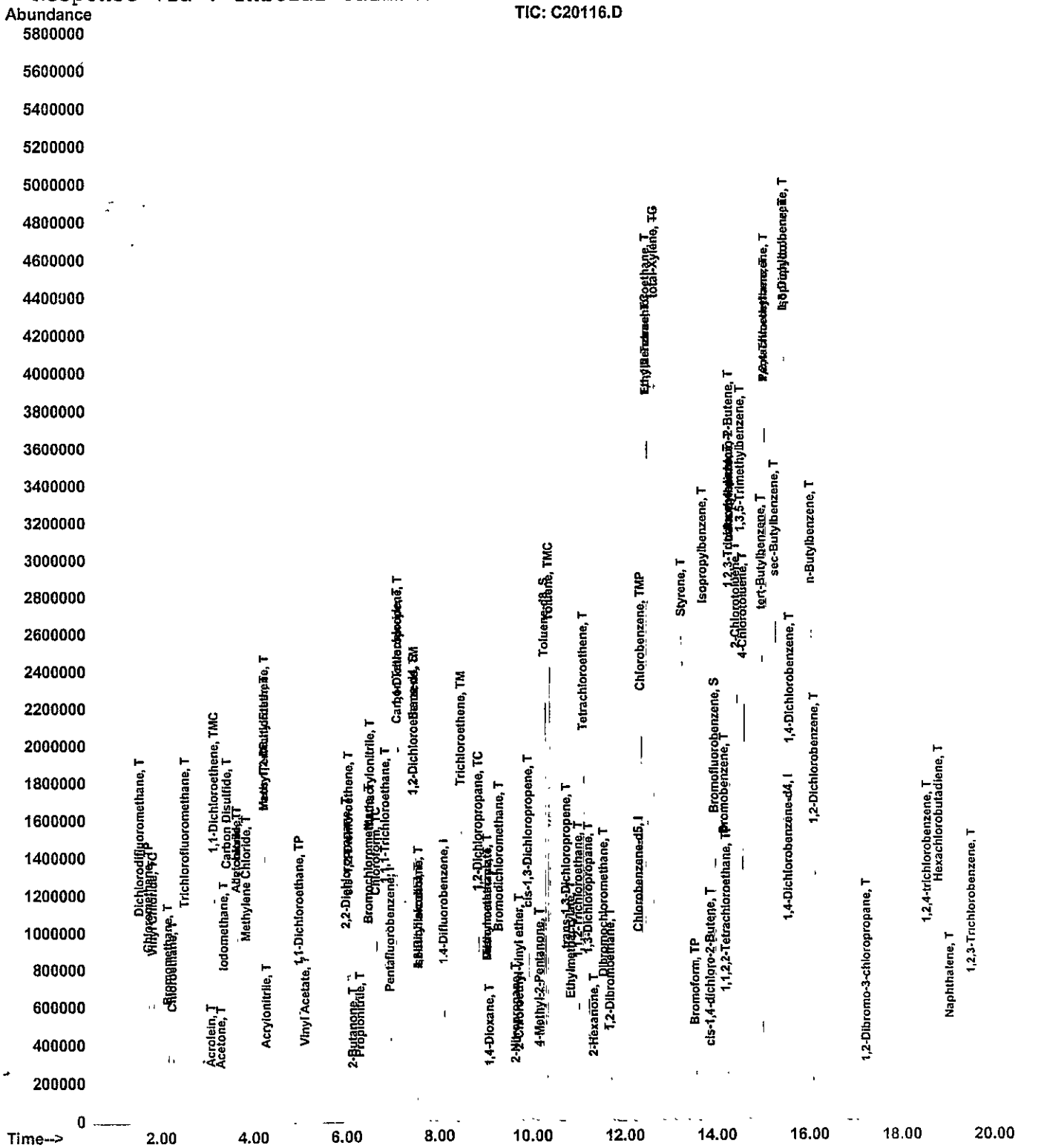
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
77)	sec-Butylbenzene	15.28	105	2553043	25.46	ug\L	99
78)	1,3-Dichlorobenzene	15.48	146	943019	29.11	ug\L	100
79)	Isopropyltoluene	15.48	119	2053425	27.47	ug\L	99
80)	1,4-Dichlorobenzene	15.60	146	912875	28.90	ug\L	100
81)	1,2-Dichlorobenzene	16.13	146	737917	29.96	ug\L	100
82)	n-Butylbenzene	16.05	91	2048512	29.26	ug\L	98
83)	1,2-Dibromo-3-chloropropan	17.26	75	24351	36.88	ug\L	98
84)	1,2,4-trichlorobenzene	18.57	180	436614	34.34	ug\L	100
85)	Hexachlorobutadiene	18.82	225	365907	34.90	ug\L	100
86)	Naphthalene	19.06	128	447597	30.67	ug\L	100
87)	1,2,3-Trichlorobenzene	19.54	180	319490	34.81	ug\L	98

(#) = qualifier out of range (m) = manual integration
C20116.D 05250125 M Sat May 26 13:51:44 2001

Quantitation Report

Data File : C:\HPCHEM\1\DATA\052501\C20116.D Vial: 3
Acq On : 05/25/01 21:55 Operator: JW/VRF/DAT
Sample : ICAL 30ppb (V01053,V01037) Inst : HP5973
Misc : WATER 25ml Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 25 22:16 2001 Quant Results File: C250125.RES

Method : C:\HPCHEM\1\DATA\052501\05250125.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Sat May 26 12:03:51 2001
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\052501\C20117.D Vial: -
Acq On : 05/25/01 22:21 Operator: JW/VRF/DAT
Sample : ICAL 40ppb (V01053,V01037) Inst : HP013
Misc : WATER 25ml Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 25 22:42 2001 Quant Results File: C 250125.RES

Quant Method : C:\HPCHEM\1\DATA\052501\05250125.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Thu May 17 14:02:09 2001
Response via : Initial Calibration
DataAcq Meth : 05250125

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Pentafluorobenzene	6.98	168	454314	10.00	ug\L		-0.02
45) Chlorobenzene-d5	12.33	117	528750	10.00	ug\L		-0.02
61) 1,4-Dichlorobenzene-d4	15.57	152	210980	10.00	ug\L		-0.02
88) 1.4-Difluorobenzene	8.12	116	1401	10.00	ug\L		-0.03
System Monitoring Compounds							
32) 1,2-Dichloroethane-d4	7.45	65	705079	42.52	ug\L		0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 425.20%#				
46) Toluene-d8	10.27	98	3106904	40.13	ug\L		-0.02
Spiked Amount 10.000	Range 87 - 104		Recovery = 401.30%#				
66) Bromofluorobenzene	13.97	95	1000629	43.30	ug\L		-0.02
Spiked Amount 10.000	Range 84 - 110		Recovery = 433.00%#				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.56	85	1174373	27.85	ug\L		99
3) Chloromethane	1.74	50	879633	27.39	ug\L		100
4) Vinyl Chloride	1.85	62	823307	32.55	ug\L		99
5) Bromomethane	2.17	94	275466	52.29	ug\L		98
6) Chloroethane	2.27	64	443343	35.05	ug\L		100
7) Trichlorofluoromethane	2.54	101	1344812	41.15	ug\L	#	100
8) Acrolein	3.10	56	59435	74.89	ug\L	#	97
9) Acrylonitrile	4.31	53	137685	75.89	ug\L		99
10) 1,1-Dichloroethene	3.16	96	847126	36.11	ug\L		97
11) Acetone	3.32	58	19233	34.75	ug\L		94
12) Iodomethane	3.37	142	1169574	38.30	ug\L		100
13) Allylchloride	3.66	39	1181867	41.37	ug\L		98
14) Carbon Disulfide	3.43	76	3093113	38.39	ug\L		99
15) Acetonitrile	3.66	41	1323363	369.94	ug\L		97
16) Methylene Chloride	3.86	86	438865	36.26	ug\L		98
17) trans-1,2-Dichloroethene	4.25	96	871942	35.80	ug\L		99
18) MethylTertButylEther	4.24	73	945150	40.76	ug\L		98
19) 1,1-Dichloroethane	5.00	63	1516319	38.33	ug\L		99
20) Vinyl Acetate	5.13	43	655925	37.71	ug\L		98
21) 2,2-Dichloropropane	6.02	77	1197479	38.17	ug\L		100
22) cis-1,2-Dichloroethene	6.07	96	818517	36.12	ug\L		98
23) 2-Butanone	6.16	72	17356	36.58	ug\L	#	77
24) Propionitrile	6.32	54	220430	391.57	ug\L		96
25) Methacrylonitrile	6.52	41	1340116	384.17	ug\L		99
26) Bromochloromethane	6.49	128	262493	37.44	ug\L		96
27) Chloroform	6.65	83	1581970	39.58	ug\L		99
28) 1,1,1-Trichloroethane	6.86	97	1666980	42.56	ug\L		99
29) Carbon Tetrachloride	7.10	119	1435893	44.70	ug\L		99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\052501\C20117.D Vial: [illegible]
Acq On : 05/25/01 22:21 Operator: [illegible]VRP [illegible]DAT
Sample : ICAL 40ppb (V01053,V01037) Inst : [illegible]013
Misc : WATER 25ml Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 25 22:42 2001 Quant Results File: C 250125.RES

Quant Method : C:\HPCHEM\1\DATA\052501\05250125.M (RTE Integrate
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Thu May 17 14:02:09 2001
Response via : Initial Calibration
DataAcq Meth : 05250125

Compound	R.T.	QIon	Response	Conc Unit		Qvalue
30) 1,4-Dioxane	9.10	88	33513	802.37 ug\L	#	94
31) 1,1-Dichloropropene	7.13	77	413273	36.63 ug\L		100
33) Benzene	7.47	78	3102242	35.30 ug\L		100
34) Isobutyl alcohol	7.58	43	114047	731.16 ug\L		96
35) 1,2-Dichloroethane	7.57	62	815664	41.74 ug\L		100
36) Trichloroethene	8.49	95	1047131	39.09 ug\L		97
37) 1,2-Dichloropropane	8.85	63	646326	36.86 ug\L		98
38) Dibromomethane	9.06	93	271043	41.21 ug\L		97
39) Methylmethacrylate	9.06	69	163055	40.08 ug\L		96
40) Bromodichloromethane	9.30	83	963236	45.47 ug\L		99
41) 2-Nitropropane	9.67	43	62310	42.92 ug\L		95
42) 2-Chloroethyl-vinyl ether	9.75	63	106264	29.43 ug\L		95
43) cis-1,3-Dichloropropene	9.93	75	900843	36.72 ug\L		99
44) 4-Methyl-2-Pentanone	10.18	85	35528	37.02 ug\L	#	90
47) Toluene	10.37	92	2020298	38.78 ug\L		99
48) trans-1,3-Dichloropropene	10.75	75	624294	44.08 ug\L		98
49) Ethylmethacrylate	10.85	69	404316	47.31 ug\L		97
50) 1,1,2-Trichloroethane	11.02	83	296998	43.47 ug\L		96
51) Tetrachloroethene	11.13	164	828811	42.66 ug\L		99
52) 1,3-Dichloropropane	11.24	76	620245	41.45 ug\L		98
53) 2-Hexanone	11.36	43	130304	42.32 ug\L		98
54) Dibromochloromethane	11.57	129	513135	48.00 ug\L		97
55) 1,2-Dibromoethane	11.70	107	279416	43.88 ug\L		97
56) Chlorobenzene	12.36	112	2037364	38.83 ug\L		100
57) 1,1,1,2-Tetrachloroethane	12.50	131	663959	45.91 ug\L		99
58) Ethylbenzene	12.50	91	3934438	38.48 ug\L		99
59) total-Xylene	12.67	106	3921839m	113.48 ug\L		
60) Styrene	13.25	104	1937967	40.33 ug\L		99
62) Bromoform	13.56	173	225012	49.85 ug\L		100
63) Isopropylbenzene	13.72	105	3586321	35.69 ug\L		99
64) cis-1,4-dichloro-2-Butene	13.89	53	68509	42.25 ug\L	#	92
65) trans-1,4-dichloro-2-Buten	14.29	53	87254	44.76 ug\L	#	65
67) Bromobenzene	14.18	156	694589	41.57 ug\L		99
68) 1,1,2,2-Tetrachloroethane	14.22	83	313302	40.75 ug\L		95
69) 1,2,3-Trichloropropane	14.28	75	334767	42.49 ug\L	#	100
70) n-Propylbenzene	14.29	91	4255691	34.82 ug\L		100
71) 2-Chlorotoluene	14.43	91	2695497	39.03 ug\L		99
72) 4-Chlorotoluene	14.59	91	2991576	41.55 ug\L		99
73) 1,3,5-Trimethylbenzene	14.54	105	3172555	38.84 ug\L		100
74) Pentachloroethane	15.06	167	374324	44.54 ug\L		95
75) tert-Butylbenzene	14.99	119	2320845	34.47 ug\L		99
76) 1,2,4-Trimethylbenzene	15.06	105	2974152	38.92 ug\L		99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\052501\C20117.D Vial: -
Acq On : 05/25/01 22:21 Operator: [illegible]
Sample : ICAL 40ppb (V01053,V01037) Inst : [illegible]
Misc : WATER 25ml Multiplr: [illegible]
MS Integration Params: rteint.p
Quant Time: May 25 22:42 2001 Quant Results File: [illegible]

Quant Method : C:\HPCHEM\1\DATA\052501\05250125.M (RTE Integrate
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Thu May 17 14:02:09 2001
Response via : Initial Calibration
DataAcq Meth : 05250125

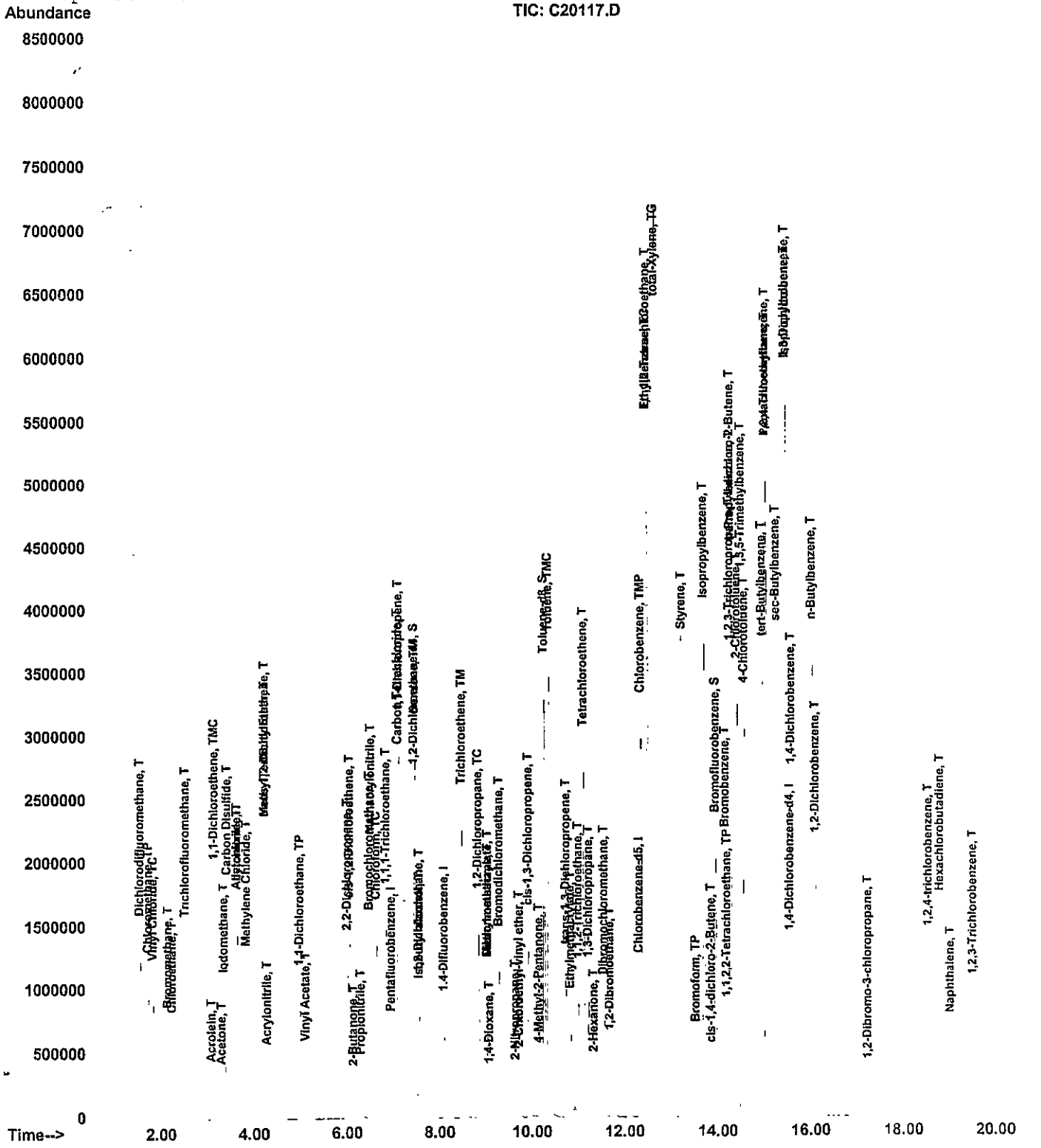
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
77)	sec-Butylbenzene	15.29	105	3486779	33.61	ug\L	100
78)	1,3-Dichlorobenzene	15.47	146	1288791	38.45	ug\L	100
79)	Isopropyltoluene	15.48	119	2757131	35.65	ug\L	100
80)	1,4-Dichlorobenzene	15.61	146	1281976	39.22	ug\L	99
81)	1,2-Dichlorobenzene	16.12	146	1019289	40.00	ug\L	100
82)	n-Butylbenzene	16.05	91	2744204	37.88	ug\L	99
83)	1,2-Dibromo-3-chloropropan	17.25	75	33327	48.28	ug\L	97
84)	1,2,4-trichlorobenzene	18.57	180	615141	46.76	ug\L	100
85)	Hexachlorobutadiene	18.82	225	520428	47.98	ug\L	100
86)	Naphthalene	19.05	128	666388	39.23	ug\L	100
87)	1,2,3-Trichlorobenzene	19.54	180	459265	48.36	ug\L	98

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\052501\C20117.D Vial: 4
Acq On : 05/25/01 22:21 Operator: [illegible] VRB/DAT
Sample : ICAL 40ppb (V01053,V01037) Inst : [illegible]013
Misc : WATER 25ml Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 25 22:42 2001 Quant Results File: C[illegible]250125.RES

Method : C:\HPCHEM\1\DATA\052501\05250125.M (RTE Integrato
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Sat May 26 12:03:51 2001
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\052501\C20119.D Vial: 6
Acq On : 05/25/01 23:13 Operator: [illegible]/VRR/DAT
Sample : ICV 10ppb (V01051,V01037) Inst : [illegible]013
Misc : WATER 25ml Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 26 13:52 2001 Quant Results File: C[illegible]250125.RES

Quant Method : C:\HPCHEM\1\DATA\052501\05250125.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Sat May 26 12:03:51 2001
Response via : Initial Calibration
DataAcq Meth : 05250125

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Pentafluorobenzene	6.98	168	428629	10.00	ug\L		0.01
45) Chlorobenzene-d5	12.32	117	487971	10.00	ug\L		0.00
61) 1,4-Dichlorobenzene-d4	15.57	152	193000	10.00	ug\L		0.00
88) 1.4-Difluorobenzene	8.11	116	459	10.00	ug\L		0.00
System Monitoring Compounds							
32) 1,2-Dichloroethane-d4	7.45	65	172419	10.13	ug\L		0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 101.30%				
46) Toluene-d8	10.27	98	757147	10.57	ug\L		0.00
Spiked Amount 10.000	Range 87 - 104		Recovery = 105.70%#				
66) Bromofluorobenzene	13.97	95	236377	10.29	ug\L		0.00
Spiked Amount 10.000	Range 84 - 110		Recovery = 102.90%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.56	85	299967	10.22	ug\L		99
3) Chloromethane	1.75	50	232792	10.50	ug\L		98
4) Vinyl Chloride	1.85	62	208238	10.16	ug\L		99
5) Bromomethane	2.17	94	137682	21.13	ug\L		99
6) Chloroethane	2.28	64	112107	10.19	ug\L		98
7) Trichlorofluoromethane	2.54	101	342975	10.50	ug\L	#	100
8) Acrolein	3.10	56	13787	20.81	ug\L	#	96
9) Acrylonitrile	4.31	53	30965	20.22	ug\L		93
10) 1,1-Dichloroethene	3.16	96	210021	10.43	ug\L		98
11) Acetone	3.32	58	5851	11.17	ug\L		98
12) Iodomethane	3.38	142	263554	9.76	ug\L		99
13) Allylchloride	3.66	39	283660	10.42	ug\L		90
14) Carbon Disulfide	3.44	76	774336	10.78	ug\L		100
15) Acetonitrile	3.66	41	366690	119.66	ug\L		90
16) Methylene Chloride	3.86	86	109332	10.08	ug\L		98
17) trans-1,2-Dichloroethene	4.25	96	216400	10.34	ug\L		97
18) MethylTertButylEther	4.25	73	218838	10.40	ug\L		99
19) 1,1-Dichloroethane	5.00	63	368810	10.40	ug\L		100
20) Vinyl Acetate	5.14	43	142144	10.42	ug\L	#	86
21) 2,2-Dichloropropane	6.01	77	279603	10.01	ug\L		100
22) cis-1,2-Dichloroethene	6.08	96	200854	10.38	ug\L		99
23) 2-Butanone	6.17	72	4024	9.86	ug\L	#	75
24) Propionitrile	6.32	54	51999	105.30	ug\L		98
25) Methacrylonitrile	6.53	41	334408	108.12	ug\L		98
26) Bromochloromethane	6.50	128	64885	10.54	ug\L		97
27) Chloroform	6.66	83	391532	10.39	ug\L		99
28) 1,1,1-Trichloroethane	6.86	97	399371	10.33	ug\L		98
29) Carbon Tetrachloride	7.10	119	351267	10.56	ug\L		99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\052501\C20119.D Vial: 6
Acq On : 05/25/01 23:13 Operator: J'/VRF'DAT
Sample : ICV 10ppb (V01051,V01037) Inst : H 013
Misc : WATER 25ml Multiplr: . 00
MS Integration Params: rteint.p
Quant Time: May 26 13:52 2001 Quant Results File: 250125.RES

Quant Method : C:\HPCHEM\1\DATA\052501\05250125.M (RTE Integrato
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Sat May 26 12:03:51 2001
Response via : Initial Calibration
DataAcq Meth : 05250125

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
30)	1,4-Dioxane	9.11	88	6267	174.46	ug\L	#	84
31)	1,1-Dichloropropene	7.13	77	104393	10.58	ug\L		99
33)	Benzene	7.47	78	777170	10.38	ug\L		100
34)	Isobutyl alcohol	7.58	43	26575	215.04	ug\L		85
35)	1,2-Dichloroethane	7.57	62	202611	10.49	ug\L		98
36)	Trichloroethene	8.49	95	252611	10.19	ug\L		99
37)	1,2-Dichloropropane	8.85	63	153450	10.27	ug\L		98
38)	Dibromomethane	9.05	93	66592	10.44	ug\L		97
39)	Methylmethacrylate	9.06	69	35858	10.17	ug\L		93
40)	Bromodichloromethane	9.30	83	223759	10.50	ug\L		100
41)	2-Nitropropane	9.67	43	11904	10.19	ug\L		93
42)	2-Chloroethyl-vinyl ether	9.74	63	13899	7.22	ug\L		95
43)	cis-1,3-Dichloropropene	9.94	75	199960	10.32	ug\L		99
44)	4-Methyl-2-Pentanone	10.17	85	7231	10.10	ug\L	#	93
47)	Toluene	10.37	92	491545	10.51	ug\L		98
48)	trans-1,3-Dichloropropene	10.76	75	130614	9.89	ug\L		98
49)	Ethylmethacrylate	10.86	69	88361	10.41	ug\L		99
50)	1,1,2-Trichloroethane	11.02	83	71108	10.69	ug\L		99
51)	Tetrachloroethene	11.12	164	199247	9.98	ug\L		98
52)	1,3-Dichloropropane	11.24	76	151619	10.64	ug\L		99
53)	2-Hexanone	11.36	43	26200	9.90	ug\L		96
54)	Dibromochloromethane	11.57	129	115112	11.07	ug\L		99
55)	1,2-Dibromoethane	11.70	107	66565	10.65	ug\L		96
56)	Chlorobenzene	12.37	112	497123	10.36	ug\L		98
57)	1,1,1,2-Tetrachloroethane	12.49	131	160228	10.58	ug\L		99
58)	Ethylbenzene	12.50	91	983582	10.42	ug\L		100
59)	total-Xylene	12.66	106	971717m	31.59	ug\L		
60)	Styrene	13.25	104	453361	10.53	ug\L		98
62)	Bromoform	13.56	173	47033	10.53	ug\L		98
63)	Isopropylbenzene	13.72	105	883169	10.64	ug\L		99
64)	cis-1,4-dichloro-2-Butene	13.89	53	10639	8.08	ug\L	#	93
65)	trans-1,4-dichloro-2-Buten	14.29	53	17216	9.33	ug\L		80
67)	Bromobenzene	14.18	156	159118	10.55	ug\L		99
68)	1,1,2,2-Tetrachloroethane	14.23	83	74519	11.34	ug\L		96
69)	1,2,3-Trichloropropane	14.27	75	80461	10.73	ug\L		96
70)	n-Propylbenzene	14.29	91	1083475	10.72	ug\L		100
71)	2-Chlorotoluene	14.43	91	658052	10.56	ug\L		99
72)	4-Chlorotoluene	14.59	91	742840	11.24	ug\L		95
73)	1,3,5-Trimethylbenzene	14.53	105	796246	10.56	ug\L		99
74)	Pentachloroethane	15.06	167	92237	11.25	ug\L		97
75)	tert-Butylbenzene	14.98	119	620885	10.94	ug\L		98
76)	1,2,4-Trimethylbenzene	15.06	105	745350	10.56	ug\L		99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\052501\C20119.D Vial: 6
Acq On : 05/25/01 23:13 Operator: J'/VRR/DAT
Sample : ICV 10ppb (V01051,V01037) Inst : H 013
Misc : WATER 25ml Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 26 13:52 2001 Quant Results File: C 250125.RES

Quant Method : C:\HPCHEM\1\DATA\052501\05250125.M (RTE Integrato
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Sat May 26 12:03:51 2001
Response via : Initial Calibration
DataAcq Meth : 05250125

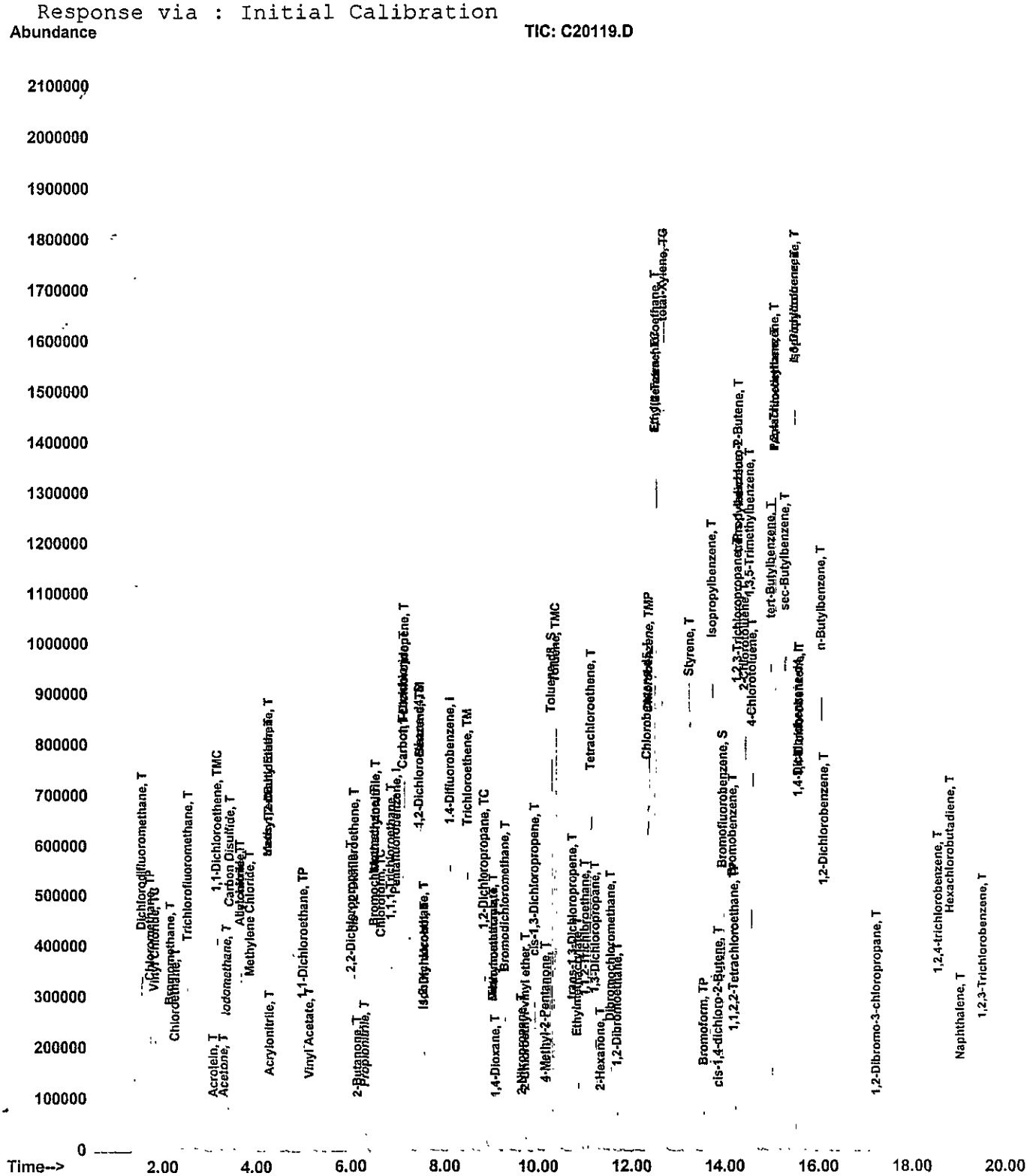
	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
77)	sec-Butylbenzene	15.28	105	919374	10.82 ug\L	99
78)	1,3-Dichlorobenzene	15.48	146	321363	10.54 ug\L	99
79)	Isopropyltoluene	15.48	119	707065	10.60 ug\L	100
80)	1,4-Dichlorobenzene	15.60	146	301923	10.27 ug\L	99
81)	1,2-Dichlorobenzene	16.13	146	244232	10.61 ug\L	99
82)	n-Butylbenzene	16.05	91	672392	10.76 ug\L	100
83)	1,2-Dibromo-3-chloropropan	17.24	75	7146	9.77 ug\L	91
84)	1,2,4-trichlorobenzene	18.56	180	142054	11.19 ug\L	100
85)	Hexachlorobutadiene	18.82	225	137058	10.82 ug\L	100
86)	Naphthalene	19.05	128	130368	12.07 ug\L	100
87)	1,2,3-Trichlorobenzene	19.54	180	104125	11.14 ug\L	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\052501\C20119.D Vial: c
Acq On : 05/25/01 23:13 Operator: [illegible]/VRR/DAT
Sample : ICV 10ppb (V01051,V01037) Inst : [illegible]013
Misc : WATER 25ml Multiplr: [illegible].00
MS Integration Params: rteint.p
Quant Time: May 26 13:52 2001 Quant Results File: C[illegible]250125.RES

Method : C:\HPCHEM\1\DATA\052501\05250125.M (RTE Integrate
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Sat May 26 12:03:51 2001
Response via : Initial Calibration



Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\052501\C20119.D Vial: 6
Acq On : 05/25/01 23:13 Operator: JE VRR/DAT
Sample : ICV 10ppb (V01051,V01037) Inst : HP 13
Misc : WATER 25ml Multiplr: 1.0
MS Integration Params: rteint.p

Method : C:\HPCHEM\1\DATA\052501\05250125.M (RTE Integrator
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Sat May 26 12:03:51 2001
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	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Pentafluorobenzene	1.000	1.000	0.0	89	0.01
2	T	Dichlorodifluoromethane	0.685	0.700	-2.2	84	0.00
3	TP	Chloromethane	0.517	0.543	-5.0	87	0.00
4	TC	Vinyl Chloride	0.478	0.486	-1.7	86	0.00
5	T	Bromomethane	0.155	0.321	-107.1#	225#	0.01
6	T	Chloroethane	0.257	0.262	-1.9	86	0.02
7	T	Trichlorofluoromethane	0.762	0.800	-5.0	93	0.01
8	T	Acrolein	0.014	0.016	-14.3	99	0.01
9	T	Acrylonitrile	0.036	0.036	0.0	97	0.00
10	TMC	1,1-Dichloroethene	0.470	0.490	-4.3	88	0.01
11	T	Acetone	0.013	0.014	-7.7	95	0.02
12	T	Iodomethane	0.630	0.615	2.4	84	0.02
13	T	Allylchloride	0.635	0.662	-4.3	92	0.01
14	T	Carbon Disulfide	1.675	1.807	-7.9	94	0.00
15	T	Acetonitrile	0.071	0.086	-21.1	104	0.01
16	T	Methylene Chloride	0.253	0.255	-0.8	90	0.00
17	T	trans-1,2-Dichloroethene	0.488	0.505	-3.5	88	0.00
18	T	MethylTertButylEther	0.491	0.511	-4.1	100	0.01
19	TP	1,1-Dichloroethane	0.827	0.860	-4.0	95	0.00
20	T	Vinyl Acetate	0.281	0.332	-18.1	115	0.00
21	T	2,2-Dichloropropane	0.652	0.652	0.0	83	0.00
22	T	cis-1,2-Dichloroethene	0.452	0.469	-3.8	92	0.01
23	T	2-Butanone	0.009	0.009	0.0	94	0.00
24	T	Propionitrile	0.012	0.012	0.0	107	0.00
25	T	Methacrylonitrile	0.072	0.078	-8.3	101	0.00
26	T	Bromochloromethane	0.144	0.151	-4.9	95	0.00
27	TC	Chloroform	0.879	0.913	-3.9	96	0.01
28	T	1,1,1-Trichloroethane	0.902	0.932	-3.3	90	0.00
29	T	Carbon Tetrachloride	0.776	0.820	-5.7	93	0.00
30	T	1,4-Dioxane	0.001	0.001	0.0	90	0.01
31	T	1,1-Dichloropropene	0.230	0.244	-6.1	92	0.00
32	S	1,2-Dichloroethane-d4	0.397	0.402	-1.3	97	0.00
33	TM	Benzene	1.747	1.813	-3.8	93	0.00
34	T	Isobutyl alcohol	0.003	0.003	0.0	122	0.00
35	T	1,2-Dichloroethane	0.451	0.473	-4.9	99	0.00
36	TM	Trichloroethene	0.578	0.589	-1.9	92	0.00
37	TC	1,2-Dichloropropane	0.349	0.358	-2.6	98	0.00
38	T	Dibromomethane	0.149	0.155	-4.0	100	0.00
39	T	Methylmethacrylate	0.077	0.084	-9.1	106	0.00
40	T	Bromodichloromethane	0.497	0.522	-5.0	101	0.00
41	T	2-Nitropropane	0.024	0.028	-16.7	126	0.00
42	T	2-Chloroethyl-vinyl ether	0.042	0.032	23.8	74	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\052501\C20119.D Vial: 6
Acq On : 05/25/01 23:13 Operator: JE VRR/DAT
Sample : ICV 10ppb (V01051,V01037) Inst : HE 13
Misc : WATER 25ml Multiplr: 1.0
MS Integration Params: rteint.p

Method : C:\HPCHEM\1\DATA\052501\05250125.M (RTE Integrato:
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Sat May 26 12:03:51 2001
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.5min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
43	T	cis-1,3-Dichloropropene	0.452	0.467	-3.3	97	0.00
44	T	4-Methyl-2-Pentanone	0.015	0.017	-13.3	113	0.00
45	I	Chlorobenzene-d5	1.000	1.000	0.0	94	0.00
46	S	Toluene-d8	1.468	1.552	-5.7	93	0.00
47	TMC	Toluene	0.958	1.007	-5.1	91	0.00
48	T	trans-1,3-Dichloropropene	0.253	0.268	-5.9	100	0.00
49	T	Ethylmethacrylate	0.160	0.181	-13.1	107	0.00
50	T	1,1,2-Trichloroethane	0.136	0.146	-7.4	101	0.00
51	T	Tetrachloroethene	0.446	0.408	8.5	89	0.00
52	T	1,3-Dichloropropane	0.292	0.311	-6.5	99	0.00
53	T	2-Hexanone	0.051	0.054	-5.9	109	0.00
54	T	Dibromochloromethane	0.213	0.236	-10.8	105	0.00
55	T	1,2-Dibromoethane	0.128	0.136	-6.3	98	-0.01
56	TMP	Chlorobenzene	0.983	1.019	-3.7	96	0.00
57	T	1,1,1,2-Tetrachloroethane	0.310	0.328	-5.8	97	0.00
58	TC	Ethylbenzene	1.934	2.016	-4.2	90	0.00
59	TG	total-Xylene	0.630	0.664	-5.4	91	0.00
60	T	Styrene	0.883	0.929	-5.2	91	0.00
61	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	91	0.00
62	TP	Bromoform	0.218	0.244	-11.9	109	0.00
63	T	Isopropylbenzene	4.302	4.576	-6.4	87	0.00
64	T	cis-1,4-dichloro-2-Butene	0.067	0.055	17.9	77	0.00
65	T	trans-1,4-dichloro-2-Butene	0.096	0.089	7.3	86	0.00
66	S	Bromofluorobenzene	1.191	1.225	-2.9	93	0.00
67	T	Bromobenzene	0.781	0.824	-5.5	94	0.00
68	TP	1,1,2,2-Tetrachloroethane	0.341	0.386	-13.2	106	0.00
69	T	1,2,3-Trichloropropane	0.389	0.417	-7.2	99	0.00
70	T	n-Propylbenzene	5.238	5.614	-7.2	88	0.00
71	T	2-Chlorotoluene	3.228	3.410	-5.6	90	0.00
72	T	4-Chlorotoluene	3.425	3.849	-12.4	103	0.00
73	T	1,3,5-Trimethylbenzene	3.906	4.126	-5.6	87	0.00
74	T	Pentachloroethane	0.364	0.478	-31.3#	100	0.00
75	T	tert-Butylbenzene	2.940	3.217	-9.4	88	0.00
76	T	1,2,4-Trimethylbenzene	3.659	3.862	-5.5	88	0.00
77	T	sec-Butylbenzene	4.401	4.764	-8.2	87	0.00
78	T	1,3-Dichlorobenzene	1.579	1.665	-5.4	92	0.00
79	T	Isopropyltoluene	3.457	3.664	-6.0	83	0.00
80	T	1,4-Dichlorobenzene	1.523	1.564	-2.7	91	0.00
81	T	1,2-Dichlorobenzene	1.192	1.265	-6.1	95	0.00
82	T	n-Butylbenzene	3.237	3.484	-7.6	87	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\052501\C20119.D Vial: 6
Acq On : 05/25/01 23:13 Operator: JF VRR/DAT
Sample : ICV 10ppb (V01051,V01037) Inst : HP 13
Misc : WATER 25ml Multiplr: 1.0
MS Integration Params: rteint.p

Method : C:\HPCHEM\1\DATA\052501\05250125.M (RTE Integrator
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Sat May 26 12:03:51 2001
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%

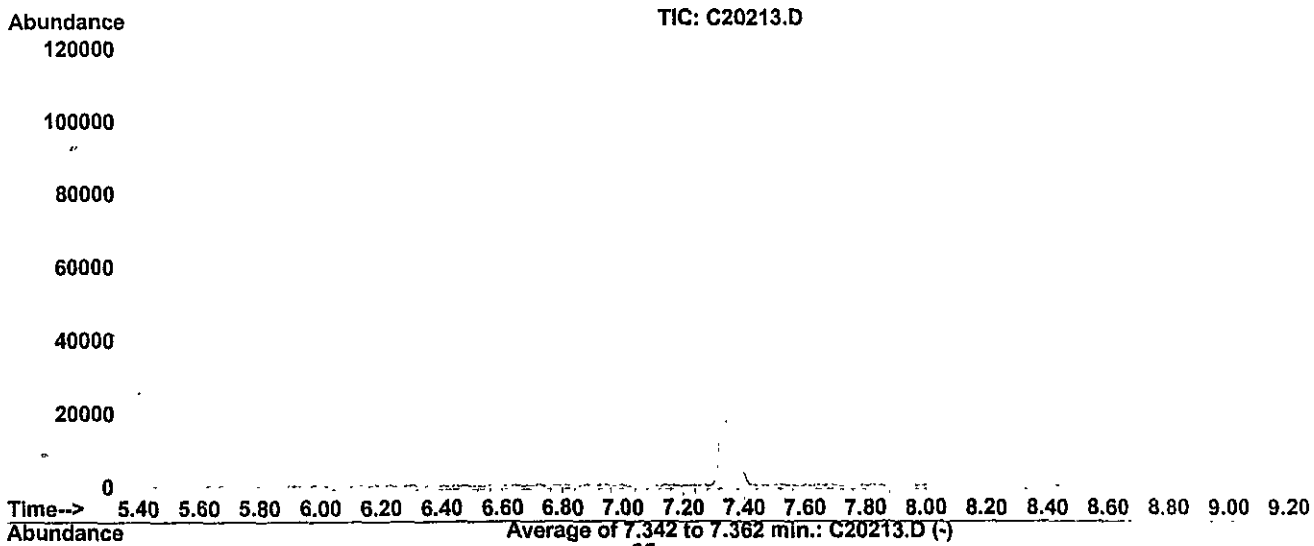
		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
83	T	1,2-Dibromo-3-chloropropane	0.036	0.037	-2.8	94	-0.02
84	T	1,2,4-trichlorobenzene	0.658	0.736	-11.9	100	0.00
85	T	Hexachlorobutadiene	0.656	0.710	-8.2	88	0.00
86	T	Naphthalene	0.633	0.675	-6.6	112	-0.01
87	T	1,2,3-Trichlorobenzene	0.484	0.540	-11.6	103	-0.01
88	i	1.4-Difluorobenzene	1.000	1.000	0.0	36#	0.00

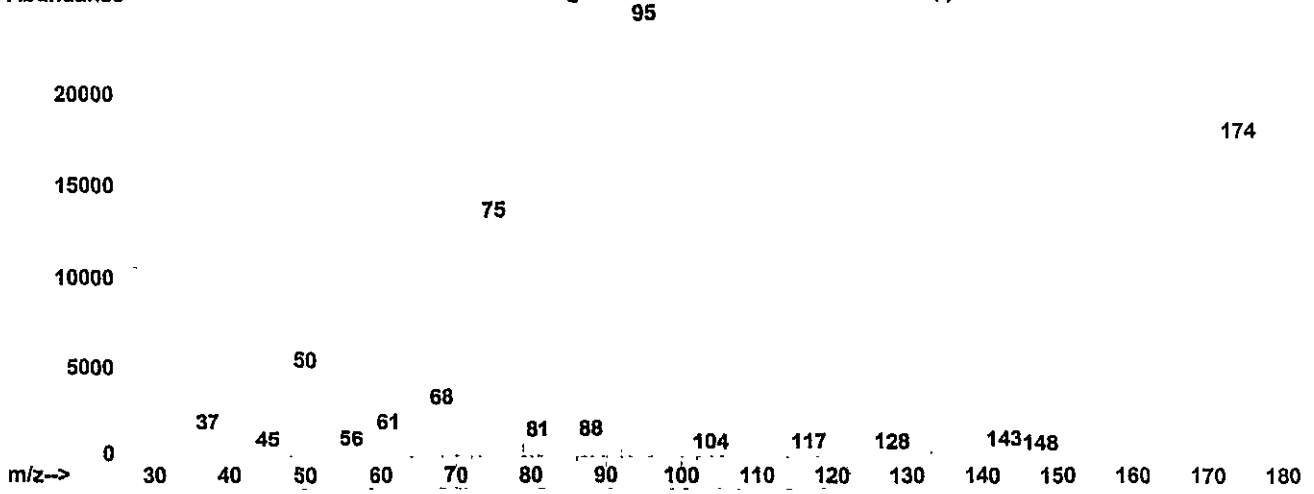
(#) = Out of Range SPCC's out = 0 CCC's out = 0

BFB

Data File : C:\HPCHEM\1\DATA\053101\C20213.D
Acq On : 05/31/01 07:57
Sample : BFB 50ng
Misc : V01018
MS Integration Params: rteint.p
Method : c:\hpchem\1\methods\BFB01.M (RTE Integrator)
Title :

Vial: .
Operator: JP/VRR/DAT
Inst : HP013
Multiplr: 1.00





AutoFind: Scans 621, 622, 623; Background Corrected with Scan 614

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	20.1	4774	PASS
75	95	30	60	54.6	12978	PASS
95	95	100	100	100.0	23776	PASS
96	95	5	9	7.5	1780	PASS
173	174	0.00	2	0.3	49	PASS
174	95	50	100	72.8	17316	PASS
175	174	5	9	6.4	1116	PASS
176	174	95	101	97.7	16913	PASS
177	176	5	9	6.4	1090	PASS

C20213.D BFB01.M Thu May 31 08:10:18 2001

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\053101\C20214.D Vial: 1
Acq On : 05/31/01 08:19 Operator: C:/VRR/DAT
Sample : CCV 10ppb (V01053,V01037) Inst : H 013
Misc : WATER 25ml Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 31 8:40 2001 Quant Results File: C 310125.RES

Quant Method : C:\HPCHEM\1\DATA\053101\05310125.M (RTE Integrat
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Wed May 30 13:53:00 2001
Response via : Initial Calibration
DataAcq Meth : 05310125

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Pentafluorobenzene	6.96	168	401527	10.00	ug\L		0.00
45) Chlorobenzene-d5	12.32	117	511618	10.00	ug\L		0.00
61) 1,4-Dichlorobenzene-d4	15.56	152	184310	10.00	ug\L		0.00
88) 1.4-Difluorobenzene	8.11	116	1049	10.00	ug\L		-0.01
System Monitoring Compounds							
32) 1,2-Dichloroethane-d4	7.44	65	181240	11.37	ug\L		0.00
Spiked Amount 10.000	Range 80 - 120		Recovery =	113.70%			
46) Toluene-d8	10.26	98	849832	11.31	ug\L		0.00
Spiked Amount 10.000	Range 87 - 104		Recovery =	113.10%#			
66) Bromofluorobenzene	13.96	95	243286	11.09	ug\L		0.00
Spiked Amount 10.000	Range 84 - 110		Recovery =	110.90%#			
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.55	85	233062	8.48	ug\L		99
3) Chloromethane	1.74	50	230365	11.09	ug\L		96
4) Vinyl Chloride	1.84	62	205957	10.73	ug\L		99
5) Bromomethane	2.16	94	63769	10.71	ug\L		99
6) Chloroethane	2.27	64	113552	11.02	ug\L		98
7) Trichlorofluoromethane	2.53	101	304802	9.96	ug\L	#	100
8) Acrolein	3.10	56	12058	19.54	ug\L	#	100
9) Acrylonitrile	4.30	53	31711	22.10	ug\L		93
10) 1,1-Dichloroethene	3.15	96	208309	11.05	ug\L		97
11) Acetone	3.31	58	4983	9.87	ug\L		77
12) Iodomethane	3.37	142	272205	10.76	ug\L		99
13) Allylchloride	3.65	39	284229	11.15	ug\L		97
14) Carbon Disulfide	3.43	76	750446	11.16	ug\L		99
15) Acetonitrile	3.65	41	324323	112.98	ug\L		97
16) Methylene Chloride	3.85	86	112794	11.10	ug\L		97
17) trans-1,2-Dichloroethene	4.24	96	228936	11.68	ug\L		98
18) MethylTertButylEther	4.23	73	210540	10.68	ug\L		99
19) 1,1-Dichloroethane	4.99	63	379404	11.42	ug\L		99
20) Vinyl Acetate	5.12	43	129344	10.17	ug\L		99
21) 2,2-Dichloropropane	6.01	77	290323	11.10	ug\L		100
22) cis-1,2-Dichloroethene	6.07	96	211928	11.69	ug\L		99
23) 2-Butanone	6.16	72	4338	11.28	ug\L	#	48
24) Propionitrile	6.31	54	51631	111.61	ug\L		98
25) Methacrylonitrile	6.52	41	333014	114.93	ug\L		100
26) Bromochloromethane	6.48	128	68284	11.84	ug\L		98
27) Chloroform	6.64	83	404134	11.45	ug\L		98
28) 1,1,1-Trichloroethane	6.85	97	395003	10.91	ug\L		98
29) Carbon Tetrachloride	7.09	119	340652	10.93	ug\L		98

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\053101\C20214.D Vial: 1
Acq On : 05/31/01 08:19 Operator: [illegible]
Sample : CCV 10ppb (V01053,V01037) Inst : [illegible]
Misc : WATER 25ml Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 31 8:40 2001 Quant Results File: [illegible]

Quant Method : C:\HPCHEM\1\DATA\053101\05310125.M (RTE Integrat[illegible]
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Wed May 30 13:53:00 2001
Response via : Initial Calibration
DataAcq Meth : 05310125

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
30)	1,4-Dioxane	9.10	88	6737	196.82	ug\L	#	69
31)	1,1-Dichloropropene	7.12	77	106123	11.48	ug\L		97
33)	Benzene	7.46	78	809881	11.55	ug\L		100
34)	Isobutyl alcohol	7.58	43	20946	184.91	ug\L	#	78
35)	1,2-Dichloroethane	7.56	62	202735	11.20	ug\L		100
36)	Trichloroethene	8.48	95	270307	11.64	ug\L		99
37)	1,2-Dichloropropane	8.84	63	167392	11.96	ug\L		99
38)	Dibromomethane	9.04	93	69676	11.66	ug\L		97
39)	Methylmethacrylate	9.04	69	34813	10.50	ug\L		97
40)	Bromodichloromethane	9.30	83	229736	11.50	ug\L		99
41)	2-Nitropropane	9.66	43	10194	9.51	ug\L		94
42)	2-Chloroethyl-vinyl ether	9.74	63	16471	8.61	ug\L		97
43)	cis-1,3-Dichloropropene	9.93	75	223355	12.31	ug\L		99
44)	4-Methyl-2-Pentanone	10.17	85	6659	9.95	ug\L	#	95
47)	Toluene	10.36	92	540243	11.02	ug\L		99
48)	trans-1,3-Dichloropropene	10.74	75	141698	10.20	ug\L		99
49)	Ethylmethacrylate	10.85	69	79595	9.11	ug\L		93
50)	1,1,2-Trichloroethane	11.01	83	75452	10.82	ug\L		100
51)	Tetrachloroethene	11.12	164	230177	11.06	ug\L		100
52)	1,3-Dichloropropane	11.23	76	160127	10.72	ug\L		99
53)	2-Hexanone	11.35	43	23442	8.64	ug\L	#	99
54)	Dibromochloromethane	11.56	129	116441	10.68	ug\L		99
55)	1,2-Dibromoethane	11.69	107	70229	10.72	ug\L		98
56)	Chlorobenzene	12.36	112	526360	10.46	ug\L		100
57)	1,1,1,2-Tetrachloroethane	12.49	131	170208	10.72	ug\L		100
58)	Ethylbenzene	12.49	91	990283	10.01	ug\L		98
59)	total-Xylene	12.66	106	966858m	29.98	ug\L		
60)	Styrene	13.25	104	444587	9.85	ug\L		99
62)	Bromoform	13.55	173	48926	11.34	ug\L		96
63)	Isopropylbenzene	13.72	105	823304	10.38	ug\L		100
64)	cis-1,4-dichloro-2-Butene	13.88	53	13413	10.26	ug\L	#	99
65)	trans-1,4-dichloro-2-Buten	14.28	53	18513	10.50	ug\L		97
67)	Bromobenzene	14.17	156	158511	11.01	ug\L		100
68)	1,1,2,2-Tetrachloroethane	14.21	83	77020	12.27	ug\L		97
69)	1,2,3-Trichloropropane	14.26	75	80036	11.17	ug\L		97
70)	n-Propylbenzene	14.28	91	1010074	10.46	ug\L		99
71)	2-Chlorotoluene	14.42	91	647677	10.89	ug\L		99
72)	4-Chlorotoluene	14.58	91	724505	11.48	ug\L		95
73)	1,3,5-Trimethylbenzene	14.53	105	825005	11.46	ug\L		99
74)	Pentachloroethane	15.04	167	85992	11.00	ug\L		99
75)	tert-Butylbenzene	14.98	119	584765	10.79	ug\L		100
76)	1,2,4-Trimethylbenzene	15.05	105	782735	11.61	ug\L		99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\053101\C20214.D Vial: .
Acq On : 05/31/01 08:19 Operator: [illegible]
Sample : CCV 10ppb (V01053,V01037) Inst : [illegible]
Misc : WATER 25ml Multiplr: [illegible]
MS Integration Params: rteint.p
Quant Time: May 31 8:40 2001 Quant Results File: [illegible].RES

Quant Method : C:\HPCHEM\1\DATA\053101\05310125.M (RTE Integrate
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Wed May 30 13:53:00 2001
Response via : Initial Calibration
DataAcq Meth : 05310125

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
77) sec-Butylbenzene	15.27	105	869685	10.72 ug\L	100
78) 1,3-Dichlorobenzene	15.47	146	317653	10.91 ug\I	99
79) Isopropyltoluene	15.47	119	710881	11.16 ug\I	100
80) 1,4-Dichlorobenzene	15.59	146	298130	10.62 ug\I	98
81) 1,2-Dichlorobenzene	16.12	146	238009	10.83 ug\I	98
82) n-Butylbenzene	16.04	91	666909	11.18 ug\I	99
83) 1,2-Dibromo-3-chloropropan	17.24	75	6557	9.41 ug\I	95
84) 1,2,4-trichlorobenzene	18.56	180	136414	11.25 ug\I	100
85) Hexachlorobutadiene	18.81	225	134732	11.14 ug\I	100
86) Naphthalene	19.04	128	116498	11.39 ug\I	100
87) 1,2,3-Trichlorobenzene	19.53	180	101121	11.33 ug\I	99

(#) = qualifier out of range (m) = manual integration

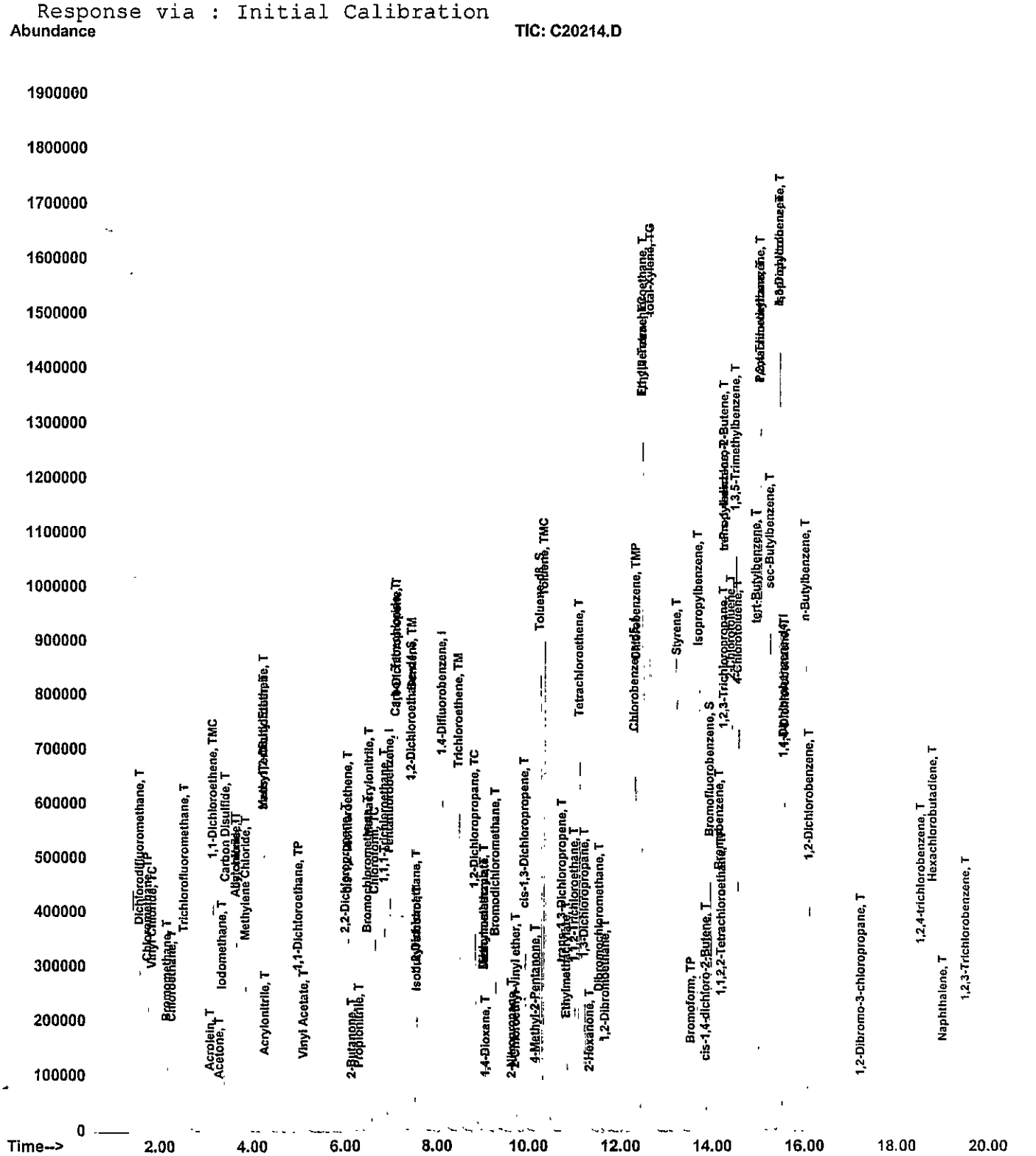
Quantitation Report

Data File : C:\HPCHEM\1\DATA\053101\C20214.D
Acq On : 05/31/01 08:19
Sample : CCV 10ppb (V01053,V01037)
Misc : WATER 25ml
MS Integration Params: rteint.p
Quant Time: May 31 8:40 2001

Vial: 1
Operator: [illegible]
Inst : [illegible]
Multiplr: 1.00

Quant Results File: [illegible]

Method : C:\HPCHEM\1\DATA\053101\05310125.M (RTE Integrate
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Wed May 30 13:53:00 2001
Response via : Initial Calibration



Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\053101\C20214.D
Acq On : 05/31/01 08:19
Sample : CCV 10ppb (V01053,V01037)
Misc : WATER 25ml
MS Integration Params: rteint.p

Vial: 1
Operator: JE VRR/DAT
Inst : HE 3
Multiplr: 1.0

Method : C:\HPCHEM\1\DATA\053101\05310125.M (RTE Integrator
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Wed May 30 13:53:00 2001
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.5 min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Pentafluorobenzene	1.000	1.000	0.0	84	0.00
2	T	Dichlorodifluoromethane	0.685	0.580	15.3	66	0.00
3	TP	Chloromethane	0.517	0.574	-11.0	87	0.00
4	TC	Vinyl Chloride	0.478	0.513	-7.3	85	0.00
5	T	Bromomethane	0.155	0.159	-2.6	104	0.00
6	T	Chloroethane	0.257	0.283	-10.1	87	0.00
7	T	Trichlorofluoromethane	0.762	0.759	0.4	83	0.00
8	T	Acrolein	0.014	0.015	-7.1	86	0.00
9	T	Acrylonitrile	0.036	0.039	-8.3	99	0.00
10	TMC	1,1-Dichloroethene	0.470	0.519	-10.4	87	0.00
11	T	Acetone	0.013	0.012	7.7	81	0.00
12	T	Iodomethane	0.630	0.678	-7.6	87	0.00
13	T	Allylchloride	0.635	0.708	-11.5	92	0.00
14	T	Carbon Disulfide	1.675	1.869	-11.6	91	0.00
15	T	Acetonitrile	0.071	0.081	-14.1	92	0.00
16	T	Methylene Chloride	0.253	0.281	-11.1	93	0.00
17	T	trans-1,2-Dichloroethene	0.488	0.570	-16.8	93	0.00
18	T	MethylTertButylEther	0.491	0.524	-6.7	96	0.00
19	TP	1,1-Dichloroethane	0.827	0.945	-14.3	98	0.00
20	T	Vinyl Acetate	0.281	0.322	-14.6	105	0.00
21	T	2,2-Dichloropropane	0.652	0.723	-10.9	86	0.00
22	T	cis-1,2-Dichloroethene	0.452	0.528	-16.8	97	0.00
23	T	2-Butanone	0.009	0.011	-22.2	102	0.00
24	T	Propionitrile	0.012	0.013	-8.3	106	0.00
25	T	Methacrylonitrile	0.072	0.083	-15.3	101	0.00
26	T	Bromochloromethane	0.144	0.170	-18.1	100	0.00
27	TC	Chloroform	0.879	1.006	-14.4	99	0.00
28	T	1,1,1-Trichloroethane	0.902	0.984	-9.1	89	0.00
29	T	Carbon Tetrachloride	0.776	0.848	-9.3	90	0.00
30	T	1,4-Dioxane	0.001	0.001	0.0	96	0.00
31	T	1,1-Dichloropropene	0.230	0.264	-14.8	94	0.00
32	S	1,2-Dichloroethane-d4	0.397	0.451	-13.6	102	0.00
33	TM	Benzene	1.747	2.017	-15.5	97	0.00
34	T	Isobutyl alcohol	0.003	0.003	0.0	97	0.01
35	T	1,2-Dichloroethane	0.451	0.505	-12.0	99	0.00
36	TM	Trichloroethene	0.578	0.673	-16.4	98	0.00
37	TC	1,2-Dichloropropane	0.349	0.417	-19.5	107	0.00
38	T	Dibromomethane	0.149	0.174	-16.8	105	0.00
39	T	Methylmethacrylate	0.077	0.087	-13.0	103	-0.01
40	T	Bromodichloromethane	0.497	0.572	-15.1	103	0.00
41	T	2-Nitropropane	0.024	0.025	-4.2	108	-0.01
42	T	2-Chloroethyl-vinyl ether	0.042	0.041	2.4	87	0.00

(# = Out of Range

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\053101\C20214.D Vial: 1
Acq On : 05/31/01 08:19 Operator: JE VRR/DAT
Sample : CCV 10ppb (V01053,V01037) Inst : HE .3
Misc : WATER 25ml Multiplr: 1.)
MS Integration Params: rteint.p

Method : C:\HPCHEM\1\DATA\053101\05310125.M (RTE Integrator
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Wed May 30 13:53:00 2001
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.5 min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
43	T	cis-1,3-Dichloropropene	0.452	0.556	-23.0	108	0.00
44	T	4-Methyl-2-Pentanone	0.015	0.017	-13.3	104	0.00
45	I	Chlorobenzene-d5	1.000	1.000	0.0	99	0.00
46	S	Toluene-d8	1.468	1.661	-13.1	104	0.00
47	TMC	Toluene	0.958	1.056	-10.2	101	0.00
48	T	trans-1,3-Dichloropropene	0.253	0.277	-9.5	109	0.00
49	T	Ethylmethacrylate	0.160	0.156	2.5	97	0.00
50	T	1,1,2-Trichloroethane	0.136	0.147	-8.1	107	0.00
51	T	Tetrachloroethene	0.446	0.450	-0.9	102	0.00
52	T	1,3-Dichloropropane	0.292	0.313	-7.2	105	0.00
53	T	2-Hexanone	0.051	0.046	9.8	97	0.00
54	T	Dibromochloromethane	0.213	0.228	-7.0	107	0.00
55	T	1,2-Dibromoethane	0.128	0.137	-7.0	103	0.00
56	TMP	Chlorobenzene	0.983	1.029	-4.7	101	0.00
57	T	1,1,1,2-Tetrachloroethane	0.310	0.333	-7.4	104	0.00
58	TC	Ethylbenzene	1.934	1.936	-0.1	91	0.00
59	TG	total-Xylene	0.630	0.630	0.0	90	0.00
60	T	Styrene	0.883	0.869	1.6	90	0.00
61	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	87	0.00
62	TP	Bromoform	0.218	0.265	-21.6	114	0.00
63	T	Isopropylbenzene	4.302	4.467	-3.8	81	0.00
64	T	cis-1,4-dichloro-2-Butene	0.067	0.073	-9.0	97	0.00
65	T	trans-1,4-dichloro-2-Butene	0.096	0.100	-4.2	93	0.00
66	S	Bromofluorobenzene	1.191	1.320	-10.8	96	0.00
67	T	Bromobenzene	0.781	0.860	-10.1	94	0.00
68	TP	1,1,2,2-Tetrachloroethane	0.341	0.418	-22.6	109	-0.01
69	T	1,2,3-Trichloropropane	0.389	0.434	-11.6	98	-0.01
70	T	n-Propylbenzene	5.238	5.480	-4.6	82	0.00
71	T	2-Chlorotoluene	3.228	3.514	-8.9	89	-0.01
72	T	4-Chlorotoluene	3.425	3.931	-14.8	100	0.00
73	T	1,3,5-Trimethylbenzene	3.906	4.476	-14.6	91	0.00
74	T	Pentachloroethane	0.364	0.467	-28.3#	93	-0.01
75	T	tert-Butylbenzene	2.940	3.173	-7.9	83	0.00
76	T	1,2,4-Trimethylbenzene	3.659	4.247	-16.1	92	0.00
77	T	sec-Butylbenzene	4.401	4.719	-7.2	82	0.00
78	T	1,3-Dichlorobenzene	1.579	1.723	-9.1	91	0.00
79	T	Isopropyltoluene	3.457	3.857	-11.6	84	0.00
80	T	1,4-Dichlorobenzene	1.523	1.618	-6.2	90	0.00
81	T	1,2-Dichlorobenzene	1.192	1.291	-8.3	93	0.00
82	T	n-Butylbenzene	3.237	3.618	-11.8	86	0.01

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\053101\C20214.D
Acq On : 05/31/01 08:19
Sample : CCV 10ppb (V01053,V01037)
Misc : WATER 25ml
MS Integration Params: rteint.p

Vial: 1
Operator: JE [illegible]RR/DAT
Inst : HE [illegible]3
Multiplr: 1.

Method : C:\HPCHEM\1\DATA\053101\05310125.M (RTE Integrato:
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Wed May 30 13:53:00 2001
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.5 min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
83	T	1,2-Dibromo-3-chloropropane	0.036	0.036	0.0	86	0.02
84	T	1,2,4-trichlorobenzene	0.658	0.740	-12.5	96	0.00
85	T	Hexachlorobutadiene	0.656	0.731	-11.4	86	0.00
86	T	Naphthalene	0.633	0.632	0.2	100	0.01
87	T	1,2,3-Trichlorobenzene	0.484	0.549	-13.4	100	0.00
88	i	1.4-Difluorobenzene	1.000	1.000	0.0	83	0.01

(#) = Out of Range SPCC's out = 0 CCC's out = 0

PROJECT QUALITY CONTROL RESULTS
AAL PROJECT #27988

Method No[1]	Analyte / Component	Project Control Rec MS Water	Project Control Rec MSD Water	Project Control Rec MS Soil[2]	Project Control Rec MSD Soil[2]	Accuracy Limits MS MSD Recoveries Water	Accuracy Limits MS MSD Recoveries Soil[2]	Project Control MS/MSD % Deviation Water	Project Control MS/MSD % Deviation Soil[2]	Precision Limits MS/MSD Deviation Water	Precision Limits MS/MSD Deviation Soil[2]	Project Control Recoveries LCS Water	Project Control Recoveries LCS Soil[2]	Accuracy Limits LCS Recoveries Water	Accuracy Limits LCS Recoveries Soil[2]	Project Control Field Dup % Deviation Water	Project Control Field Dup % Deviation Soil[2]	Precision Limits Field Dup Deviation Water	Precision Limits Field Dup Deviation Soil[2]
VOLATILES BY GC/MS						%	%			%	%			%	%			%	%
8260B	1,1,1,2-Tetrachloroethane	102	104			60-140	20-150	3%		<30	<50	106		62-108	62-108			50	<75
8260B	1,1,1-Trichloroethane	106	108			60-140	20-150	2%		<30	<50	109		65-135	65-135			50	<75
8260B	1,1,2,2-Tetrachloroethane	130	123			60-140	20-150	6%		<30	<50	117		64-135	64-135			50	<75
8260B	1,1,2-Trichloroethane	109	106			60-140	20-150	3%		<30	<50	103		65-135	65-135			<50	75
8260B	1,1-Dichloroethane	108	123			60-140	20-150	14%		<30	<50	110		62-135	62-135			<50	<75
8260B	1,1-Dichloroethene	102	115			60-140	20-150	12%		<30	<50	112		65-135	65-135			<50	<75
8260B	1,2,3-Trichlorobenzene	104	118			60-140	20-150	13%		<30	<50	107		65-147	65-147			<50	<75
8260B	1,2,3-Trichloropropane	119	110			60-140	20-150	8%		<30	<50	106		65-135	65-135			<50	<75
8260B	1,2,4-Trichlorobenzene	103	116			60-140	20-150	11%		<30	<50	110		65-145	65-145			<50	<75
8260B	1,2,4-Trimethylbenzene	99	108			60-140	20-150	8%		<30	<50	107		65-135	65-135			<50	<75
8260B	1,2-Dichloroethane	114	113			60-140	20-150	1%		<30	<50	107		58-137	58-137			<50	<75
8260B	1,2-Dichlorobenzene	100	106			60-140	20-150	6%		<30	<50	107		65-135	65-135			<50	<75
8260B	1,2-Dibromo-3-chloropropane	104	112			60-140	20-150	8%		<30	<50	98		49-135	49-135			<50	<75
8260B	1,2-Dichloropropane	116	121			60-140	20-150	5%		<30	<50	113		60-135	60-135			<50	<75
8260B	1,2-Ethylene Dibromide	115	104			60-140	20-150	9%		<30	<50	101		65-135	65-135			<50	<75
8260B	1,3,5-Trimethylbenzene	98	105			60-140	20-150	7%		<30	<50	110		62-135	62-135			<50	<75
8260B	1,3-Dichlorobenzene	100	107			60-140	20-150	7%		<30	<50	111		65-135	65-135			<50	<75
8260B	1,3-Dichloropropane	102	103			60-140	20-150	1%		<30	<50	118		65-135	65-135			<50	<75
8260B	1,4-Dichlorobenzene	97	104			60-140	20-150	7%		<30	<50	106		65-135	65-135			<50	<75
8260B	2,2-Dichloropropane	102	103			60-140	20-150	1%		<30	<50	118		65-135	65-135			<50	<75
8260B	2-Chlorotoluene	97	104			60-140	20-150	6%		<30	<50	108		63-135	63-135			<50	<75
8260B	4-Chlorotoluene	92	97			60-140	20-150	5%		<30	<50	114		64-135	64-135			<50	<75
8260B	Benzene	113	116			60-140	20-150	3%		<30	<50	114		65-135	65-135			<50	<75
8260B	Bromobenzene	106	109			60-140	20-150	2%		<30	<50	111		65-135	65-135			<50	<75
8260B	Bromochloromethane	112	114			60-140	20-150	2%		<30	<50	112		63-135	63-135			<50	<75
8260B	Bromodichloromethane	105	117			60-140	20-150	11%		<30	<50	113		65-135	65-135			<50	<75
8260B	Bromoform	117	110			60-140	20-150	7%		<30	<50	105		65-135	65-135			<50	<75
8260B	Bromomethane	108	120			60-140	20-150	10%		<30	<50	93		62-135	62-135			<50	<75
8260B	Carbon Tetrachloride	107	110			60-140	20-150	3%		<30	<50	110		52-135	52-135			<50	<75
8260B	Chlorobenzene	99	102			60-140	20-150	3%		<30	<50	104		65-135	65-135			<50	<75
8260B	Chloroethane	100	110			60-140	20-150	9%		<30	<50	106		55-135	55-135			<50	<75
8260B	Chloroform	109	114			60-140	20-150	4%		<30	<50	111		64-135	64-135			<50	75
8260B	Chloromethane	90	106			60-140	20-150	16%		<30	<50	105		65-135	65-135			<50	<75
8260B	Cis-1,2-Dichloroethene	113	116			60-140	20-150	2%		<30	<50	113		65-135	65-135			<50	<75
8260B	Cis-1,3-Dichloropropene	107	116			60-140	20-150	8%		<30	<50	115		64-135	64-135			50	75
8260B	Dibromochloromethane	107	106			60-140	20-150	1%		30	<50	105		63-135	63-135			<50	<75
8260B	Dibromomethane	119	115			60-140	20-150	4%		30	<50	112		59-137	59-137			<50	75
8260B	Dichlorodifluoromethane	79	87			60-140	20-150	9%		30	50	85		65-135	65-135			50	75
8260B	Ethylbenzene	98	98			60-140	20-150	3%		30	50	104		65-135	65-135			50	<75
8260B	Hexachlorobutadiene	7	112			60-140	20-150	10%		30	50	111		62-135	62-135			50	
8260B	Isopropylbenzene	96	100			60-140	20-150	4%		30	50	106		65-135	65-135			50	75
8260B	total Xylene	92	96			60-140	20-150	5%		30	50	104		65-135	65-135			50	75
8260B	Methylene Chloride	106	122			60-140	20-150	14%		30	50	111		65-135	65-135			50	75
8260B	n-Butylbenzene	99	112			60-140	20-150	12%		30	50	104		65-135	65-135			50	75
8260B	n-Propylbenzene	93	100			60-140	20-150	7%		30	50	105		65-135	65-135			50	<75

PROJECT QUALITY CONTROL RESULTS
AAL PROJECT #27988

		Project Control Rec				Accuracy Limits		Project Control		Precision Limits		Project Control Recoveries		Accuracy Limits		Project Control		Precision Limits	
		MS	MSD	MS	MS	MS/MSD Recoveries		MS/MSD % Deviation		MS/MSD Deviation		LCS	LCS	LCS Recoveries		Field Dup % Deviation		Field Dup Deviation	
Method No[1]	Analyte Component	Water		Soil[2]		Water	Soil[2]	Water	Soil[2]	Water	Soil[2]	Water	Soil[2]	Water	Soil[2]	Water	Soil[2]	Water	Soil[2]
8260B	Naphthalene	119	133			60-140	20-150	11%		<30	<50	107		65-135	65-135			<50	<75
8260B	p-Isopropyltoluene	90	103			60-140	20-150	14%		<30	<50	105		65-135	65-135			<50	75
8260B	Sec-Butylbenzene	93	104			60-140	20-150	11%		<30	<50	105		65-135	65-135			<50	<75
8260B	Styrene	91	95			60-140	20-150	4%		<30	<50	103		65-135	65-135			<50	75
8260B	Trichloroethylene	106	111			60-140	20-150	4%		<30	<50	111		61-135	61-135			<50	<75
8260B	Tert-Butylbenzene	91	101			60-140	20-150	10%		<30	<50	107		65-135	65-135			<50	<75
8260B	Tetrachloroethylene	97	100			60-140	20-150	3%		<30	<50	103		61-135	61-135			<50	<75
8260B	Toluene	101	105			60-140	20-150	4%		<30	<50	107		64-135	64-135			<50	<75
8260B	Trans-1,2-Dichloroethene	108	121			60-140	20-150	12%		<30	<50	115		65-135	65-135			<50	<75
8260B	Trans-1,3-Dichloropropene	100	95			60-140	20-150	5%		<30	<50	97		56-135	56-135			<50	<75
8260B	Trichlorofluoromethane	101	110			60-140	20-150	8%		<30	<50	100		57-135	57-135			<50	<75
8260B	Vinyl Chloride	98	104			60-140	20-150	6%		<30	<50	104		36-144	36-144			<50	<75
8260B	Toluene-d8 (surr)	103	108			75-125	65-135	4%		NA	NA	108		NA	NA			NA	NA
8260B	4-Bromofluorobenzene (surr)	102	105			75-125	65-135	3%		NA	NA	108		NA	NA			NA	NA
8260B	1,2-Dichloroethane-d4 (surr)	113	113			62-139	52-149	1%		NA	NA	110		NA	NA			NA	NA
	METALS BY ICP					%	%			%	%			%	%			%	%
6010B	Lead					50-150	30-170	#DIV/0!	#DIV/0!	<30	<50			79-116	79-116			<50	<75
	PETROLEUM HYDROCARBONS					%	%			%	%			%	%			%	%
FL-PRO	TPH					50-150	30-170	#DIV/0!	#DIV/0!	<30	<50			75-125	70-130			<50	<75

Accura Analytical Laboratory, Inc.

LCS Report

Sample ID:	QVWLCS0531011	**Date Acquired:**	5/31/01
Operator:	VRR	**Instrument ID:**	5970 INST C
Data File:	C20216	**Vial #:**	3
Method:	053101W.M	**Matrix:**	Water

Compound	Expected Rec. (ppm)	Actual Rec. (ppm)	Percent Recovery	Recovery Limits (%)	Pass/ Fail
1,1-Dichloroethene	10	11.17	112%	86 - 117	Pass
Benzene	10	11.14	111%	87 - 120	Pass
Trichloroethene	10	11.14	111%	89 - 114	Pass
Toluene	10	10.67	107%	84 - 115	Pass
Chlorobenzene	10	10.41	104%	84 - 115	Pass

Surrogates	Expected Rec. (ppm)	Actual Rec. (ppm)	Percent Recovery	Recovery Limits (%)	Pass/ Fail
1,2-Dichloroethane-d4	10	11.01	110%	83 - 124	Pass
Toluene-d8	10	10.84	108%	84 - 115	Pass
4-Bromofluorobenzene	10	10.81	108%	81 - 118	Pass

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\053101\C20216.D Vial: 3
Acq On : 05/31/01 10:15 Operator: [illegible]
Sample : QVWLCS053101 C1 Inst : [illegible]
Misc : WATER 25ml Multiplr: [illegible]
MS Integration Params: rteint.p
Quant Time: May 31 10:37 2001 Quant Results File: C 310125.RES

Quant Method : c:\hpchem\1\data\053101\05310125.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Wed May 30 13:53:00 2001
Response via : Initial Calibration
DataAcq Meth : 05310125

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Pentafluorobenzene	6.97	168	392851	10.00	ug\L		0.00
45) Chlorobenzene-d5	12.33	117	501054	10.00	ug\L		0.00
61) 1,4-Dichlorobenzene-d4	15.57	152	189167	10.00	ug\L		0.00
88) 1.4-Difluorobenzene	8.11	116	622	10.00	ug\L		-0.01
System Monitoring Compounds							
32) 1,2-Dichloroethane-d4	7.44	65	171765	11.01	ug\L		0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 110.[illegible]0%				
46) Toluene-d8	10.27	98	797667	10.84	ug\L		0.00
Spiked Amount 10.000	Range 87 - 104		Recovery = 108.[illegible]0%#				
66) Bromofluorobenzene	13.97	95	243356	10.81	ug\L		0.00
Spiked Amount 10.000	Range 84 - 110		Recovery = 108. 0%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.55	85	228083	8.48	ug\L		100
3) Chloromethane	1.74	50	213996	10.53	ug\L		99
4) Vinyl Chloride	1.84	62	195252	10.39	ug\L		99
5) Bromomethane	2.16	94	53987	9.34	ug\L		100
6) Chloroethane	2.26	64	106867	10.60	ug\L		98
7) Trichlorofluoromethane	2.53	101	297949	9.95	ug\L	#	100
8) Acrolein	3.09	56	12050	19.92	ug\L	#	100
9) Acrylonitrile	4.30	53	30642	21.83	ug\L	#	85
10) 1,1-Dichloroethene	3.15	96	206041	11.17	ug\L		99
11) Acetone	3.31	58	5869	12.53	ug\L		94
12) Iodomethane	3.36	142	267922	10.83	ug\L		98
13) Allylchloride	3.65	39	276961	11.10	ug\L		93
14) Carbon Disulfide	3.43	76	731041	11.11	ug\L		100
15) Acetonitrile	3.65	41	357774	127.38	ug\L	#	92
16) Methylene Chloride	3.85	86	110094	11.07	ug\L		96
17) trans-1,2-Dichloroethene	4.24	96	221045	11.53	ug\L		99
18) MethylTertButylEther	4.24	73	197203	10.23	ug\L		98
19) 1,1-Dichloroethane	4.99	63	357738	11.00	ug\L		98
20) Vinyl Acetate	5.12	43	123127	9.94	ug\L		99
21) 2,2-Dichloropropane	6.01	77	302020	11.80	ug\L		98
22) cis-1,2-Dichloroethene	6.07	96	201274	11.34	ug\L		100
23) 2-Butanone	6.16	72	2016	5.60	ug\L	#	62
24) Propionitrile	6.32	54	47863	105.75	ug\L		97
25) Methacrylonitrile	6.52	41	313497	110.59	ug\L		98
26) Bromochloromethane	6.49	128	62937	11.15	ug\L		96
27) Chloroform	6.65	83	383100	11.09	ug\L		98
28) 1,1,1-Trichloroethane	6.85	97	387310	10.93	ug\L		99
29) Carbon Tetrachloride	7.09	119	335720	11.01	ug\L		100

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\053101\C20216.D Vial:
Acq On : 05/31/01 10:15 Operator: VRP DAT
Sample : QVWLCS053101 C1 Inst : P 013
Misc : WATER 25ml Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 31 10:37 2001 Quant Results File: C 310125.RES

Quant Method : c:\hpchem\1\data\053101\05310125.M (RTE Integrate
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Wed May 30 13:53:00 2001
Response via : Initial Calibration
DataAcq Meth : 05310125

Compound	R.T.	QIon	Response	Conc Unit		Qvalue
30) 1,4-Dioxane	9.10	88	6523	195.02 ug\L	#	66
31) 1,1-Dichloropropene	7.12	77	103480	11.44 ug\I		99
33) Benzene	7.47	78	785034	11.44 ug\I		100
34) Isobutyl alcohol	7.57	43	23179	205.86 ug\L	#	69
35) 1,2-Dichloroethane	7.56	62	189640	10.71 ug\I		99
36) Trichloroethene	8.48	95	253080	11.14 ug\L		98
37) 1,2-Dichloropropane	8.85	63	154283	11.26 ug\L		99
38) Dibromomethane	9.05	93	65256	11.16 ug\L		95
39) Methylmethacrylate	9.05	69	33342	10.30 ug\L		96
40) Bromodichloromethane	9.29	83	221131	11.32 ug\L		98
41) 2-Nitropropane	9.67	43	11031	10.27 ug\L		99
42) 2-Chloroethyl-vinyl ether	9.74	63	14466	7.93 ug\L		96
43) cis-1,3-Dichloropropene	9.93	75	204282	11.51 ug\L		98
44) 4-Methyl-2-Pentanone	10.17	85	6199	9.55 ug\L	#	92
47) Toluene	10.37	92	512375	10.67 ug\L		100
48) trans-1,3-Dichloropropene	10.75	75	130856	9.68 ug\L		99
49) Ethylmethacrylate	10.85	69	76917	9.00 ug\L		97
50) 1,1,2-Trichloroethane	11.01	83	70431	10.31 ug\I		98
51) Tetrachloroethene	11.12	164	210031	10.26 ug\I		99
52) 1,3-Dichloropropane	11.24	76	152245	10.41 ug\I		96
53) 2-Hexanone	11.36	43	24573	9.16 ug\L		98
54) Dibromochloromethane	11.56	129	111704	10.46 ug\L		98
55) 1,2-Dibromoethane	11.71	107	64626	10.07 ug\L		100
56) Chlorobenzene	12.36	112	512792	10.41 ug\L		100
57) 1,1,1,2-Tetrachloroethane	12.49	131	164254	10.57 ug\L		99
58) Ethylbenzene	12.50	91	1005549	10.37 ug\L		99
59) total-Xylene	12.66	106	990138m	31.34 ug\I		
60) Styrene	13.26	104	456438	10.32 ug\L		100
62) Bromoform	13.56	173	46059	10.53 ug\L		94
63) Isopropylbenzene	13.72	105	864265	10.62 ug\L		100
64) cis-1,4-dichloro-2-Butene	13.88	53	13005	9.77 ug\L	#	92
65) trans-1,4-dichloro-2-Buten	14.29	53	18199	10.06 ug\L		97
67) Bromobenzene	14.18	156	164195	11.11 ug\L		98
68) 1,1,2,2-Tetrachloroethane	14.23	83	75234	11.68 ug\L		98
69) 1,2,3-Trichloropropane	14.27	75	78096	10.62 ug\L		100
70) n-Propylbenzene	14.29	91	1041023	10.51 ug\I		100
71) 2-Chlorotoluene	14.43	91	661960	10.84 ug\I		99
72) 4-Chlorotoluene	14.58	91	736988	11.37 ug\I		96
73) 1,3,5-Trimethylbenzene	14.53	105	813211	11.01 ug\I		100
74) Pentachloroethane	15.06	167	90980	11.32 ug\I		99
75) tert-Butylbenzene	14.98	119	593906	10.68 ug\I		99
76) 1,2,4-Trimethylbenzene	15.05	105	743481	10.74 ug\I		100

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\053101\C20216.D Vial: 3
Acq On : 05/31/01 10:15 Operator: JV/VRR/DAT
Sample : QVWLCS053101 C1 Inst : HP013
Misc : WATER 25ml Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 31 10:37 2001 Quant Results File: 05310125.RES

Quant Method : c:\hpchem\1\data\053101\05310125.M (RTE Integrate
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Wed May 30 13:53:00 2001
Response via : Initial Calibration
DataAcq Meth : 05310125

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
77) sec-Butylbenzene	15.28	105	875861	10.52 ug\L	99
78) 1,3-Dichlorobenzene	15.47	146	330663	11.07 ug\L	99
79) Isopropyltoluene	15.48	119	684363	10.46 ug\L	98
80) 1,4-Dichlorobenzene	15.60	146	306277	10.63 ug\L	99
81) 1,2-Dichlorobenzene	16.12	146	241773	10.72 ug\L	99
82) n-Butylbenzene	16.05	91	639444	10.44 ug\L	99
83) 1,2-Dibromo-3-chloropropan	17.25	75	7018	9.79 ug\L	97
84) 1,2,4-trichlorobenzene	18.56	180	136393	10.96 ug\L	100
85) Hexachlorobutadiene	18.82	225	137216	11.05 ug\L	100
86) Naphthalene	19.05	128	111810	10.74 ug\L	100
87) 1,2,3-Trichlorobenzene	19.54	180	97725	10.67 ug\L	98

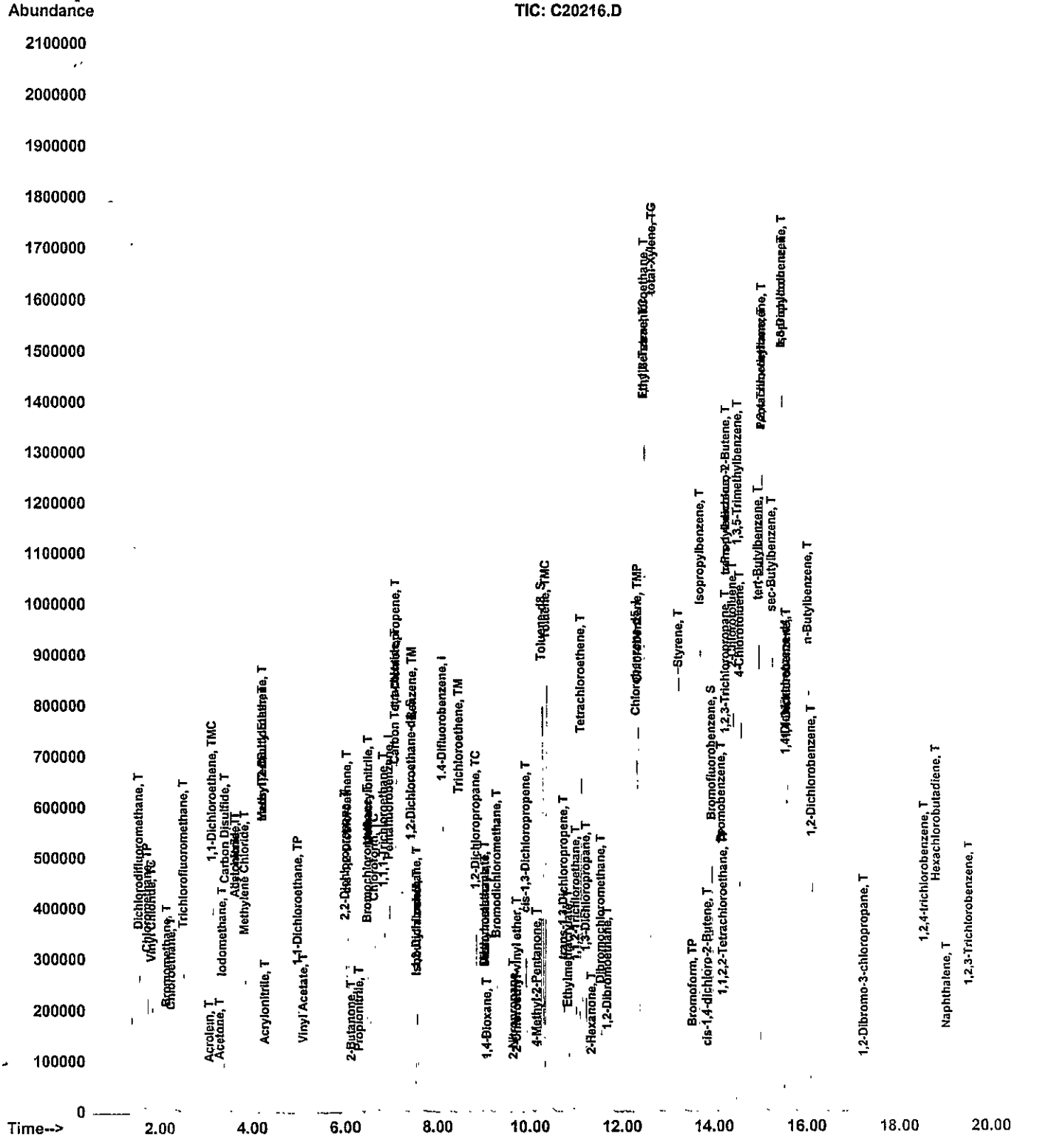
VRL 6-4-01

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\053101\C20216.D Vial: 3
Acq On : 05/31/01 10:15 Operator: [illegible]VRR DAT
Sample : QVWLCS053101 C1 Inst : H[illegible]013
Misc : WATER 25ml Multiplr: [illegible].00
MS Integration Params: rteint.p
Quant Time: May 31 10:37 2001 Quant Results File: C [illegible]310125.RES

Method : C:\HPCHEM\1\DATA\053101\05310125.M (RTE Integrate
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Wed May 30 13:53:00 2001
Response via : Initial Calibration



Accura Analytical Laboratory, Inc.

MS/MSD Report

Sample ID: AC14039 MS/MSD **Date Acquired:** 5/31/01

Operator: VRR **Instrument ID:** 5970 GC/MS C

Data File: C20237 & C20238 **Vial #:** 8 & 9

Method: 053101W.M **Matrix:** Water

Compound	Expected Rec. (ppb)	MS Rec. (ppb)	MS % Recovery	MSD Rec. (ppb)	MSD % Recovery	Recovery Limits (%)	MS Pass/ Fail	MSD Pass/ Fail	%RPD	%RPD Limit	%RPD Pass/ Fail
1,1-Dichloroethene	10	10.17	102%	11.51	115%	78 - 117	Pass	Pass	12%	< 20	Pass
Benzene	10	11.29	113%	11.58	116%	82 - 123	Pass	Pass	3%	< 20	Pass
Trichloroethene	10	10.64	106%	11.12	111%	79 - 120	Pass	Pass	4%	< 20	Pass
Toluene	10	10.06	101%	10.5	105%	77 - 116	Pass	Pass	4%	< 20	Pass
Chlorobenzene	10	9.91	99%	10.17	102%	79 - 110	Pass	Pass	3%	< 20	Pass

Surrogates	Expected Rec. (ppb)	MS Rec. (ppb)	MS % Recovery	MSD Rec. (ppb)	MSD % Recovery	Recovery Limits (%)	MS Pass/ Fail	MSD Pass/ Fail
1,2-Dichloroethane-d4	10	11.26	113%	11.33	113%	81 - 132	Pass	Pass
Toluene-d8	10	10.34	103%	10.81	108%	80 - 119	Pass	Pass
4-Bromofluorobenzene	10	10.2	102%	10.5	105%	80 - 120	Pass	Pass

Quantitation Report (QT/LSC Reviewed)

Data File : C:\HPCHEM\1\DATA\053101\C20229.D Vial: 1
Acq On : 05/31/01 16:05 Operator: VRR DAT
Sample : AC14039 25ml DF=1 Inst : HP013
Misc : 27988/C05310125 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 1 9:02 2001 Quant Results File: C310125.RES

Quant Method : c:\hpchem\1\data\053101\05310125.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Wed May 30 13:53:00 2001
Response via : Initial Calibration
DataAcq Meth : 05310125

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	6.98	168	348461	10.00	ug\L	0.02
45) Chlorobenzene-d5	12.33	117	439331	10.00	ug\L	0.01
61) 1,4-Dichlorobenzene-d4	15.57	152	148863	10.00	ug\L	0.00
88) 1.4-Difluorobenzene	0.00	116	0m	10.00	ug\L	-8.12
System Monitoring Compounds						
32) 1,2-Dichloroethane-d4	7.45	65	163384	11.81	ug\L	0.01
Spiked Amount 10.000	Range 80 - 120		Recovery = 118.10%			
46) Toluene-d8	10.28	98	714885	11.08	ug\L	0.01
Spiked Amount 10.000	Range 87 - 104		Recovery = 110.80%#			
66) Bromofluorobenzene	13.97	95	199427	11.25	ug\L	0.00
Spiked Amount 10.000	Range 84 - 110		Recovery = 112.50%#			
Target Compounds						Qvalue
3) Chloromethane	1.75	50	23664	1.31	ug\L	96
16) Methylene Chloride	3.86	86	10019	1.14	ug\L	96

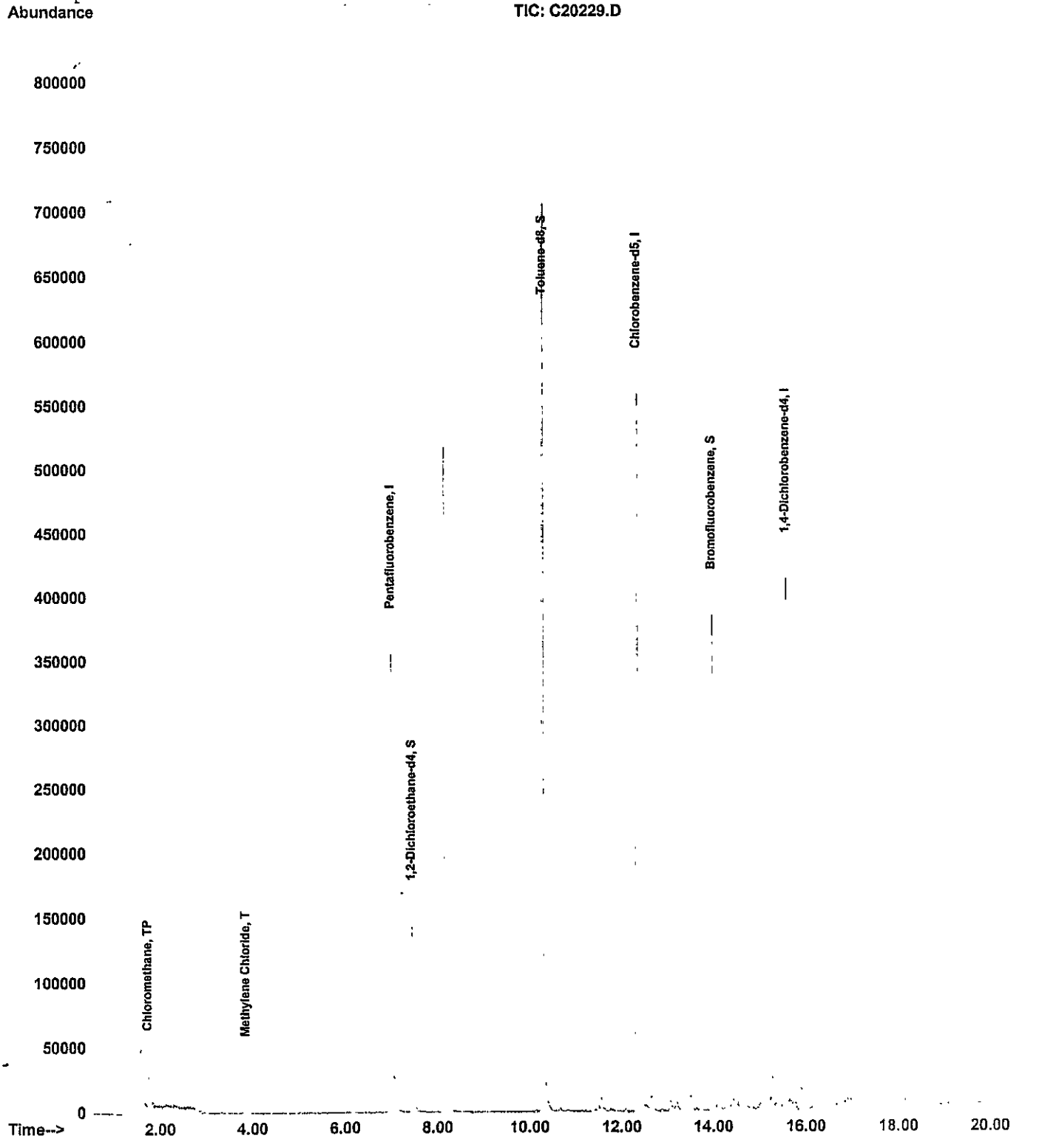
VRR 6-4-01

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\053101\C20229.D Vial: 1
Acq On : 05/31/01 16:05 Operator: JP/VRR/DAT
Sample : AC14039 25ml DF=1 Inst : H 013
Misc : 27988/C05310125 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 1 9:02 2001 Quant Results File: C 310125.RES

Method : C:\HPCHEM\1\DATA\053101\05310125.M (RTE Integrate)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Wed May 30 13:53:00 2001
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\053101\C20237.D Vial: 5
Acq On : 05/31/01 19:30 Operator: JV/VRF/DAT
Sample : AC14039MS 25ml DF=1 Inst : HP013
Misc : 27988/C05310125 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 31 19:52 2001 Quant Results File: C05310125.RES

Quant Method : c:\hpchem\1\data\053101\05310125.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Wed May 30 13:53:00 2001
Response via : Initial Calibration
DataAcq Meth : 05310125

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Pentafluorobenzene	6.98	168	354095	10.00	ug\L		0.02
45) Chlorobenzene-d5	12.33	117	422873	10.00	ug\L		0.01
61) 1,4-Dichlorobenzene-d4	15.57	152	152868	10.00	ug\L		0.00
88) 1.4-Difluorobenzene	8.13	116	954	10.00	ug\L		0.00
System Monitoring Compounds							
32) 1,2-Dichloroethane-d4	7.45	65	158297	11.26	ug\L		0.02
Spiked Amount 10.000	Range 80 - 120		Recovery = 112.60%				
46) Toluene-d8	10.28	98	642010	10.34	ug\L		0.01
Spiked Amount 10.000	Range 87 - 104		Recovery = 103.40%				
66) Bromofluorobenzene	13.97	95	185607	10.20	ug\L		0.00
Spiked Amount 10.000	Range 84 - 110		Recovery = 102.00%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.55	85	191062	7.88	ug\L		99
3) Chloromethane	1.74	50	188156	10.27	ug\L		99
4) Vinyl Chloride	1.84	62	165500	9.77	ug\L		100
5) Bromomethane	2.17	94	56951	10.84	ug\L		99
6) Chloroethane	2.27	64	90684	9.98	ug\L		98
7) Trichlorofluoromethane	2.53	101	273684	10.14	ug\L	#	100
8) Acrolein	3.10	56	10705	19.66	ug\L	#	98
9) Acrylonitrile	4.31	53	30129	23.81	ug\L		94
10) 1,1-Dichloroethene	3.16	96	169189	10.17	ug\L		95
11) Acetone	3.33	58	4502	10.19	ug\L	#	1
12) Iodomethane	3.37	142	237610	10.65	ug\L		95
13) Allylchloride	3.66	39	237886	10.58	ug\L		98
14) Carbon Disulfide	3.43	76	618795	10.43	ug\L		100
15) Acetonitrile	3.66	41	275519	108.83	ug\L		98
16) Methylene Chloride	3.86	86	104950	11.71	ug\L		99
17) trans-1,2-Dichloroethene	4.25	96	185754	10.75	ug\L		97
18) MethylTertButylEther	4.25	73	180011	10.36	ug\L		99
19) 1,1-Dichloroethane	5.00	63	314925	10.75	ug\L		99
20) Vinyl Acetate	5.14	43	114356	10.19	ug\L		98
21) 2,2-Dichloropropane	6.02	77	235200	10.19	ug\L		100
22) cis-1,2-Dichloroethene	6.08	96	180825	11.31	ug\L		95
23) 2-Butanone	6.18	72	3505	10.37	ug\L	#	95
24) Propionitrile	6.33	54	47644	116.79	ug\L	#	94
25) Methacrylonitrile	6.53	41	310127	121.37	ug\L		99
26) Bromochloromethane	6.50	128	56805	11.17	ug\L		92
27) Chloroform	6.66	83	340224	10.93	ug\L		97
28) 1,1,1-Trichloroethane	6.86	97	337284	10.56	ug\L		98
29) Carbon Tetrachloride	7.11	119	292971	10.66	ug\L		97

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\053101\C20237.D Vial: 8
Acq On : 05/31/01 19:30 Operator: JM/VRR/DAT
Sample : AC14039MS 25ml DF=1 Inst : HP013
Misc : 27988/C05310125 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 31 19:52 2001 Quant Results File: C05310125.RES

Quant Method : c:\hpchem\1\data\053101\05310125.M (RTE Integrate
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Wed May 30 13:53:00 2001
Response via : Initial Calibration
DataAcq Meth : 05310125

	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
30)	1,4-Dioxane	9.11	88	6833	222.93 ug\L	#	77
31)	1,1-Dichloropropene	7.13	77	89061	10.93 ug\L		97
33)	Benzene	7.48	78	698682	11.29 ug\L		100
34)	Isobutyl alcohol	7.58	43	21574	211.76 ug\L	#	81
35)	1,2-Dichloroethane	7.57	62	181704	11.38 ug\L		99
36)	Trichloroethene	8.49	95	217922	10.64 ug\L		98
37)	1,2-Dichloropropane	8.85	63	142759	11.56 ug\L		98
38)	Dibromomethane	9.06	93	62924	11.94 ug\L		92
39)	Methylmethacrylate	9.06	69	31718	10.81 ug\L		88
40)	Bromodichloromethane	9.30	83	184638	10.49 ug\L		99
41)	2-Nitropropane	9.68	43	10136	10.43 ug\L		97
42)	2-Chloroethyl-vinyl ether	9.74	63	410	2.14 ug\L	#	51
43)	cis-1,3-Dichloropropene	9.94	75	171269	10.70 ug\L		96
44)	4-Methyl-2-Pentanone	10.18	85	5579	9.54 ug\L	#	90
47)	Toluene	10.37	92	407639	10.06 ug\L		99
48)	trans-1,3-Dichloropropene	10.75	75	114750	10.02 ug\L		96
49)	Ethylmethacrylate	10.86	69	70332	9.66 ug\L		90
50)	1,1,2-Trichloroethane	11.02	83	63067	10.94 ug\L		98
51)	Tetrachloroethene	11.13	164	168562	9.72 ug\L		99
52)	1,3-Dichloropropane	11.24	76	134620	10.91 ug\L		99
53)	2-Hexanone	11.36	43	22254	9.73 ug\L	#	93
54)	Dibromochloromethane	11.57	129	96352	10.69 ug\L		97
55)	1,2-Dibromoethane	11.71	107	62076	11.46 ug\L		98
56)	Chlorobenzene	12.37	112	412041	9.91 ug\L		99
57)	1,1,1,2-Tetrachloroethane	12.50	131	133417	10.17 ug\L		99
58)	Ethylbenzene	12.50	91	777859	9.51 ug\L		99
59)	total-Xylene	12.67	106	735749m	27.60 ug\L		
60)	Styrene	13.26	104	341166	9.14 ug\L		98
62)	Bromoform	13.56	173	42166	11.73 ug\L		99
63)	Isopropylbenzene	13.73	105	630893	9.59 ug\L		99
64)	cis-1,4-dichloro-2-Butene	13.89	53	12596	11.45 ug\L	#	97
65)	trans-1,4-dichloro-2-Buten	14.28	53	17752	12.14 ug\L	#	78
67)	Bromobenzene	14.18	156	126668	10.61 ug\L		99
68)	1,1,2,2-Tetrachloroethane	14.23	83	67860	13.04 ug\L		97
69)	1,2,3-Trichloropropane	14.28	75	70406	11.85 ug\L		84
70)	n-Propylbenzene	14.29	91	745931	9.32 ug\L		100
71)	2-Chlorotoluene	14.43	91	479838	9.72 ug\L		99
72)	4-Chlorotoluene	14.59	91	480511	9.18 ug\L		99
73)	1,3,5-Trimethylbenzene	14.54	105	586729	9.83 ug\L		100
74)	Pentachloroethane	15.06	167	71756	11.06 ug\L		98
75)	tert-Butylbenzene	14.98	119	408694	9.09 ug\L		99
76)	1,2,4-Trimethylbenzene	15.06	105	553170	9.89 ug\L		97

(#) = qualifier out of range (m) = manual integration
C20237.D 05310125.M Fri Jun 01 09:20:55 2001

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\053101\C20237.D Vial: 8
Acq On : 05/31/01 19:30 Operator: JP/VRR/DAT
Sample : AC14039MS 25ml DF=1 Inst : HP013
Misc : 27988/C05310125 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 31 19:52 2001 Quant Results File: C05310125.RES

Quant Method : c:\hpchem\1\data\053101\05310125.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Wed May 30 13:53:00 2001
Response via : Initial Calibration
DataAcq Meth : 05310125

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
77)	sec-Butylbenzene	15.28	105	626805	9.32	ug\L		99
78)	1,3-Dichlorobenzene	15.48	146	240257	9.95	ug\L		99
79)	Isopropyltoluene	15.48	119	474675	8.98	ug\L		100
80)	1,4-Dichlorobenzene	15.60	146	225107	9.67	ug\L		99
81)	1,2-Dichlorobenzene	16.12	146	181613	9.96	ug\L		98
82)	n-Butylbenzene	16.05	91	490446	9.91	ug\L		98
83)	1,2-Dibromo-3-chloropropan	17.26	75	6034	10.39	ug\L		93
84)	1,2,4-trichlorobenzene	18.57	180	103885	10.33	ug\L		100
85)	Hexachlorobutadiene	18.83	225	95527	9.52	ug\L		100
86)	Naphthalene	19.06	128	101964	11.94	ug\L		100
87)	1,2,3-Trichlorobenzene	19.55	180	76773	10.37	ug\L	#	93

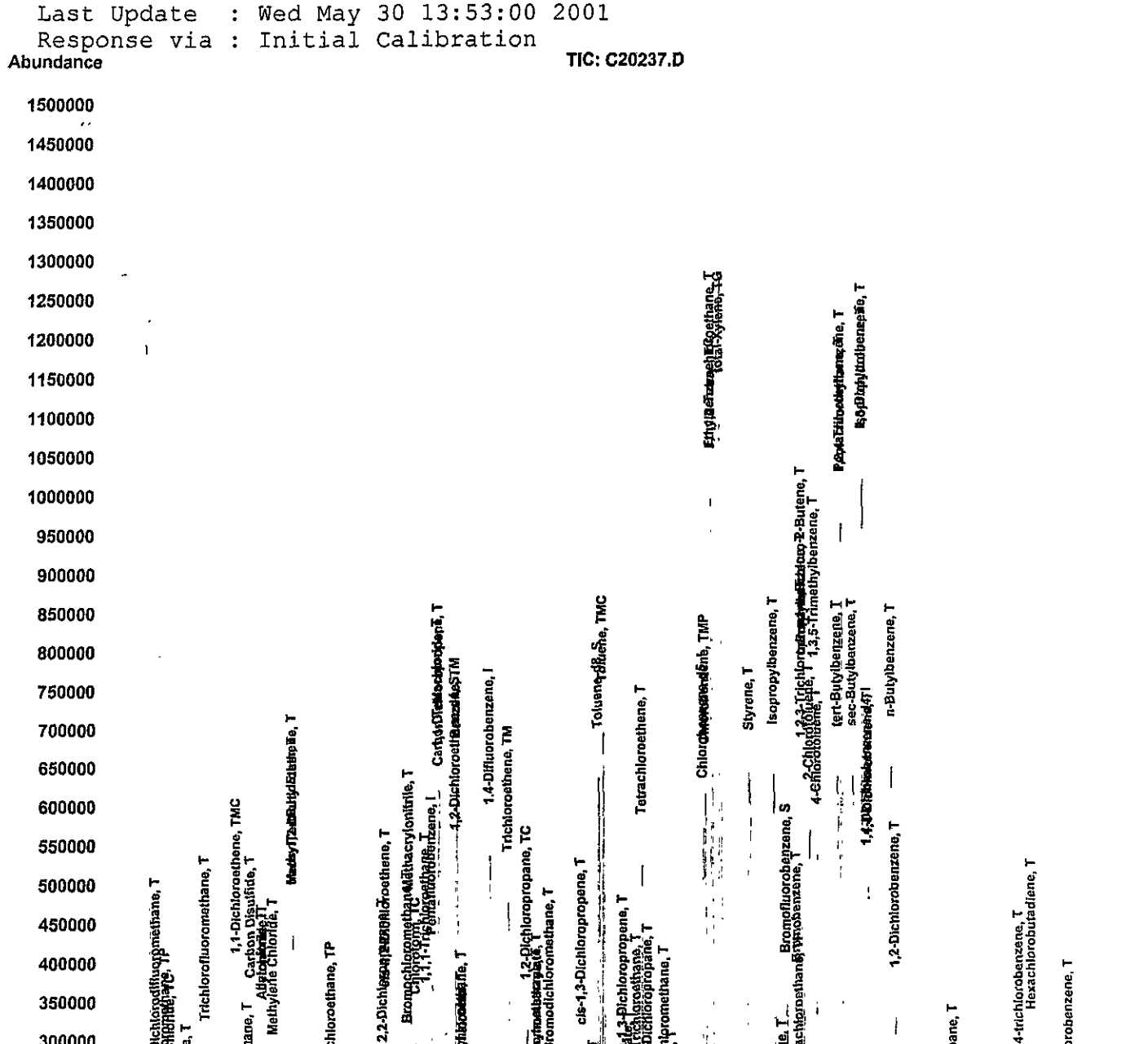
VRR 6-4-01

(#) = qualifier out of range (m) = manual integration
C20237.D 05310125.M Fri Jun 01 09:20:56 2001 Page

Quantitation Report

Data File : C:\HPCHEM\1\DATA\053101\C20237.D Vial: 5
Acq On : 05/31/01 19:30 Operator: JM/VRR/DAT
Sample : AC14039MS 25ml DF=1 Inst : HP013
Misc : 27988/C05310125 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 31 19:52 2001 Quant Results File: C05310125.RES

Method : C:\HPCHEM\1\DATA\053101\05310125.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Wed May 30 13:53:00 2001
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\053101\C20238.D Vial: 9
Acq On : 05/31/01 19:55 Operator: JM/VRR/DAT
Sample : AC14039MSD 25ml DF=1 Inst : HP013
Misc : 27988/C05310125 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 31 20:16 2001 Quant Results File: C05310125.RES

Quant Method : c:\hpchem\1\data\053101\05310125.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Wed May 30 13:53:00 2001
Response via : Initial Calibration
DataAcq Meth : 05310125

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Pentafluorobenzene	6.98	168	328521	10.00	ug\L		0.00
45) Chlorobenzene-d5	12.33	117	439124	10.00	ug\L		0.00
61) 1,4-Dichlorobenzene-d4	15.57	152	161330	10.00	ug\L		0.00
88) 1.4-Difluorobenzene	8.13	116	667	10.00	ug\L		0.00
System Monitoring Compounds							
32) 1,2-Dichloroethane-d4	7.45	65	147788	11.33	ug\L		0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 113.30%				
46) Toluene-d8	10.28	98	696828	10.81	ug\L		0.00
Spiked Amount 10.000	Range 87 - 104		Recovery = 108.10%#				
66) Bromofluorobenzene	13.98	95	201722	10.50	ug\L		0.00
Spiked Amount 10.000	Range 84 - 110		Recovery = 105.00%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.55	85	194545	8.65	ug\L		99
3) Chloromethane	1.74	50	201961	11.88	ug\L		99
4) Vinyl Chloride	1.84	62	163715	10.42	ug\L		99
5) Bromomethane	2.16	94	58635	11.97	ug\L		98
6) Chloroethane	2.27	64	92342	10.95	ug\L		97
7) Trichlorofluoromethane	2.54	101	275685	11.01	ug\L	#	100
8) Acrolein	3.10	56	11403	22.33	ug\L	#	95
9) Acrylonitrile	4.32	53	32560	27.74	ug\L		96
10) 1,1-Dichloroethene	3.15	96	177642	11.51	ug\L		97
11) Acetone	3.33	58	4637	11.66	ug\L		81
12) Iodomethane	3.37	142	240951	11.64	ug\L		97
13) Allylchloride	3.66	39	250949	12.03	ug\L		96
14) Carbon Disulfide	3.43	76	628612	11.42	ug\L		99
15) Acetonitrile	3.66	41	285369	121.50	ug\L		96
16) Methylene Chloride	3.85	86	110667	13.31	ug\L		98
17) trans-1,2-Dichloroethene	4.25	96	194048	12.10	ug\L		97
18) MethylTertButylEther	4.25	73	189714	11.77	ug\L		99
19) 1,1-Dichloroethane	5.00	63	334987	12.32	ug\L		99
20) Vinyl Acetate	5.14	43	119154	11.25	ug\L		98
21) 2,2-Dichloropropane	6.01	77	220667	10.31	ug\L		98
22) cis-1,2-Dichloroethene	6.07	96	171377	11.55	ug\L		97
23) 2-Butanone	6.18	72	3814	12.09	ug\L	#	70
24) Propionitrile	6.33	54	46550	122.99	ug\L		99
25) Methacrylonitrile	6.54	41	288259	121.59	ug\L		99
26) Bromochloromethane	6.50	128	53697	11.38	ug\L		93
27) Chloroform	6.66	83	330160	11.43	ug\L		99
28) 1,1,1-Trichloroethane	6.86	97	318433	10.75	ug\L		99
29) Carbon Tetrachloride	7.11	119	280986	11.02	ug\L		96

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\053101\C20238.D Vial: 3
Acq On : 05/31/01 19:55 Operator: [illegible]
Sample : AC14039MSD 25ml DF=1 Inst : [illegible]
Misc : 27988/C05310125 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 31 20:16 2001 Quant Results File: C05310125.RES

Quant Method : c:\hpchem\1\data\053101\05310125.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Wed May 30 13:53:00 2001
Response via : Initial Calibration
DataAcq Meth : 05310125

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
30) 1,4-Dioxane	9.12	88	6121	216.04 ug\L #	73
31) 1,1-Dichloropropene	7.13	77	85687	11.33 ug\L	99
33) Benzene	7.48	78	664706	11.58 ug\L	100
34) Isobutyl alcohol	7.58	43	20987	220.82 ug\L #	78
35) 1,2-Dichloroethane	7.57	62	166637	11.25 ug\L	99
36) Trichloroethene	8.49	95	211321	11.12 ug\L	97
37) 1,2-Dichloropropane	8.85	63	138676	12.11 ug\L	98
38) Dibromomethane	9.06	93	56270	11.51 ug\L	96
39) Methylmethacrylate	9.06	69	29710	10.90 ug\L	91
40) Bromodichloromethane	9.31	83	190592	11.67 ug\L	99
41) 2-Nitropropane	9.66	43	9595	10.59 ug\L	99
42) 2-Chloroethyl-vinyl ether	9.75	63	1486	2.68 ug\L #	74
43) cis-1,3-Dichloropropene	9.94	75	171800	11.57 ug\L	97
44) 4-Methyl-2-Pentanone	10.18	85	5669	10.29 ug\L #	87
47) Toluene	10.37	92	441719	10.50 ug\L	99
48) trans-1,3-Dichloropropene	10.76	75	112799	9.53 ug\L	97
49) Ethylmethacrylate	10.86	69	72576	9.60 ug\L	94
50) 1,1,2-Trichloroethane	11.02	83	63457	10.60 ug\L	98
51) Tetrachloroethene	11.13	164	180319	10.04 ug\L	100
52) 1,3-Dichloropropane	11.24	76	136541	10.65 ug\L	98
53) 2-Hexanone	11.36	43	22711	9.59 ug\L	98
54) Dibromochloromethane	11.57	129	99145	10.60 ug\L	100
55) 1,2-Dibromoethane	11.71	107	58716	10.44 ug\L	99
56) Chlorobenzene	12.37	112	439287	10.17 ug\L	100
57) 1,1,1,2-Tetrachloroethane	12.50	131	142270	10.44 ug\L	99
58) Ethylbenzene	12.50	91	831110	9.78 ug\L	98
59) total-Xylene	12.67	106	801050m	28.93 ug\L	
60) Styrene	13.26	104	367593	9.48 ug\L	99
62) Bromoform	13.56	173	41278	10.99 ug\L	97
63) Isopropylbenzene	13.72	105	691105	9.96 ug\L	99
64) cis-1,4-dichloro-2-Butene	13.89	53	11652	10.19 ug\L #	91
65) trans-1,4-dichloro-2-Buten	14.29	53	17650	11.44 ug\L #	4
67) Bromobenzene	14.18	156	136858	10.86 ug\L	100
68) 1,1,2,2-Tetrachloroethane	14.22	83	67463	12.28 ug\L	99
69) 1,2,3-Trichloropropane	14.27	75	68905	10.99 ug\L	99
70) n-Propylbenzene	14.30	91	848132	10.04 ug\L	100
71) 2-Chlorotoluene	14.43	91	540282	10.37 ug\L	99
72) 4-Chlorotoluene	14.58	91	534538	9.67 ug\L	98
73) 1,3,5-Trimethylbenzene	14.54	105	662972	10.52 ug\L	99
74) Pentachloroethane	15.06	167	73385	10.74 ug\L	99
75) tert-Butylbenzene	14.98	119	477380	10.07 ug\L	100
76) 1,2,4-Trimethylbenzene	15.06	105	634308	10.75 ug\L	98

(# = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\053101\C20238.D Vial: 9
Acq On : 05/31/01 19:55 Operator: CP/VRR/DAT
Sample : AC14039MSD 25ml DF=1 Inst : HP013
Misc : 27988/C05310125 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 31 20:16 2001 Quant Results File: C05310125.RES

Quant Method : c:\hpchem\1\data\053101\05310125.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Wed May 30 13:53:00 2001
Response via : Initial Calibration
DataAcq Meth : 05310125

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
77)	sec-Butylbenzene	15.28	105	741050	10.44	ug\L		99
78)	1,3-Dichlorobenzene	15.47	146	271236	10.65	ug\L		99
79)	Isopropyltoluene	15.48	119	576286	10.33	ug\L		100
80)	1,4-Dichlorobenzene	15.60	146	254608	10.36	ug\L		98
81)	1,2-Dichlorobenzene	16.12	146	203906	10.60	ug\L		99
82)	n-Butylbenzene	16.05	91	585523	11.21	ug\L		99
83)	1,2-Dibromo-3-chloropropan	17.26	75	6905	11.22	ug\L		94
84)	1,2,4-trichlorobenzene	18.57	180	122719	11.56	ug\L		100
85)	Hexachlorobutadiene	18.82	225	118345	11.17	ug\L		100
86)	Naphthalene	19.05	128	121872	13.29	ug\L		100
87)	1,2,3-Trichlorobenzene	19.53	180	91953	11.77	ug\L	#	96

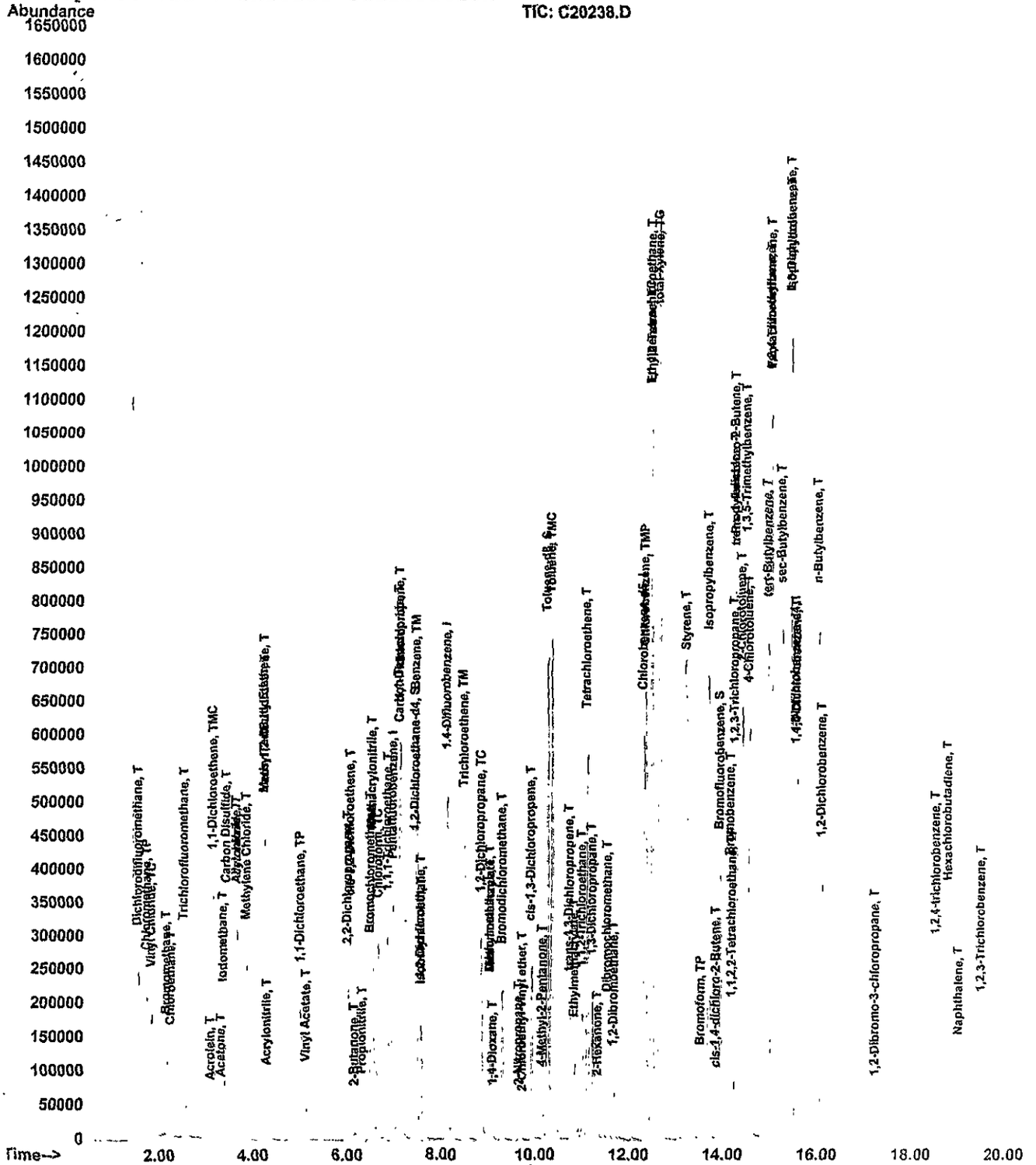
VRR 6.4.01

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : C:\HPCHEM\1\DATA\053101\C20238.D Vial: 9
Acq On : 05/31/01 19:55 Operator: JP/VRR/DAT
Sample : AC14039MSD 25ml DF=1 Inst : HP013
Misc : 27988/C05310125 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: May 31 20:16 2001 Quant Results File: C05310125.RES

Method : C:\HPCHEM\1\DATA\053101\05310125.M (RTE Integrator)
Title : 8260 CALIBRATION FOR 25ML WATER
Last Update : Wed May 30 13:53:00 2001
Response via : Initial Calibration



SVO GC DATA CHECKLIST
FL-PRO

PROJECT #: 27988	METHOD: FL-PRO
MATRIX: Water	

INITIAL ANALYST ASSESSMENT

Are all standards within expiration dates for both stock and serial standards?	(Y)	N	NA
Are continuing calibrations compliant with method requirements?	(Y)	N	NA
Is blank result less than 1/2 RDL for analytes of interest?	(Y)	N	NA
Are all spike recoveries acceptable for the LCS (/LCSD)?	(Y)	N	NA
Are all surrogate standard recoveries acceptable (blank, LCS, samples)?	Y	(N)	NA
If blank, LCS or surrogate results are unacceptable, was re-extraction performed to confirm?	Y	N	(NA)
Are all requested analytes below the upper calibration limit?	(Y)	N	NA
Were sample analyses performed within holding times?	(Y)	N	NA
Were analyses performed such that carryover was not a problem?	(Y)	N	NA
Are multicomponent patterns resolvable?	(Y)	N	NA
Are quantitations based on the latest acceptable initial calibration?	(Y)	N	NA
Are all mistakes single lined, initialled, and dated?	(Y)	N	NA
Are all applicable runlog and extraction sheets signed, dated, and included?	(Y)	N	NA
Are all analytes to be reported indicated as such on the raw data?	(Y)	N	NA
Was analysis completed as instructed on the Log-in Record?	(Y)	N	NA
Has all data been entered into LIMS?	(Y)	N	NA

Analyst: BF	
Date: 6/5/01	Time: 10.30

PEER REVIEW

Are continuing calibrations compliant with method requirements?	Y	N	NA
Are all blank and QC results acceptable?	Y	N	NA
Are all surrogate standard recoveries acceptable (blank, LCS, samples)?	Y	N	NA
Are all analytc calculations correct and reported in the proper units?	Y	N	NA
Were sample analyses performed within holding times?	Y	N	NA
Are quantitations based on the latest acceptable initial calibration?	Y	N	NA
Is the runlog completely filled out (including review signature/date)?	Y	N	NA
Was analysis completed as instructed on the Log-in Record?	Y	N	NA
Have all LIMS entries been checked for accuracy?	Y	N	NA

Reviewer: RL	
Date: 06/05/01	Time: 15:00

ACCURA ANALYTICAL LABORATORIES

EXTRACTION LOG

ANALYSIS: DRO / PAH (FLPRO)

MATRIX: WATER

EXT. METHOD: 3510 / (3520)

DRO-066

DATE/TIME: 5/30/01 700

ANALYST: KC

INSTRUMENT: GC-FID / GC-MSD

AAL I.D.	SAMPLE VOLUME	pH	SURR	SPIKE	FINAL VOLUME	COMMENTS
QFW053001 1	1L		KC		1.0mL	FL01E087
QFW053001 2	↓		↓	KC		↓
KC 5/31/01 Ø MS-14039				↓		
MSD-14039				↓		
14027						
14028						
14029						
14030						
14031						
14032						
14033						
14034						
14035						
14036						↓
14037						FL01E097
14038						↓
14039						
14040						
14041	↓		↓			↓
				KC 5/31/01		

START TIME: 1035 **STOP TIME:** 705 **SOLVENT ID #:** EB01223

SURROGATE I.D. : FL01E097 FL01E087 **CONC. :** 300ppm **INITAL :** KC

SURROGATE I.D. : D01E094 **CONC. :** 50ppm **INITAL :** KC

SPIKE I.D. : FL01E088 **CONC. :** 250ppm **INITIAL :** KC

SPIKE I.D. : — **CONC. :** — **INITIAL :** —

EXTRACT STORAGE: REFRIG.# 5, **BOX # :** _____ **RapidVap TEMP.:** 45°C

Instrument DRO-B

Analyst Initials: BP
Run Method: PRO 032
Quant Method: ↓

	Sample	Blank/LCS
Water OTP/C(39) Limits	82-142 | 42-193	82-142 | 42-193
Soil OTP/C(39) Limits	62-109 | 60-118	62-109 | 60-118

Compound: PRO
Date: 03/27/01

Vial Position	AAL Sample I.D. #	Extraction Date	Matrix	Dilution Factor	OTP/C(39) Recovery	Spike Recovery	AAL Std. I.D. #	Status	Comments
1	Solv Blank	NA	Medium	1x	NA →			✓	
2	4250 PPM PRO CCV	↓	Std	↓	103 | 90	93	015V164	↓	
3	QFW053001 1	5/30/01	water		93 | 9.0				
4	QFW053001 2				95 | 24	76			
5	14039 W MS				82 | 20	54			
6	14039 W MSD				85 | 20	55			
7	14039 W				97 | 31				
8	14047 W				39 | 49				
9	14048 W				60 | 29				
10	14049 W			↓	76 | 55				
11	14050 W			5x	100 | 88				
12	14051 W	↓	↓	1x	78 | 35				Rerun w/o dilution to low ROL
13	Solv Blank	NA	Medium		NA →				
14	4250 PPM PRO CCV	↓	Std		105 | 100	96	015V164		
15	14032 W	5/30/01	water		93 | 47				
16	14033 W				60 | 54				
17	14034 W				10 | 45				
18	14035 W				136 | 49				
19	14036 W			↓	69 | 42				
20	14037 W			5x	68 | 21				Rerun w/o dilution to low ROL
21	14038 W			1x	82 | 60				
22	14040 W	↓	↓	10x	59 | 10			↓	Matrix Dilution

Initials / Date: BP 6/5/01

Instrument DRO-B

Run Method: _____

Quant Method: _____

See Page 050

	Sample	Blank/LCS
Water OTP/C(39) Limits		
Soil OTP/C(39) Limits		

Compound: _____

Date: _____

Continued from Page 050

Vial Position	AAL Sample I.D. #	Extraction Date	Matrix	Dilution Factor	OTP/C(39) Recovery	Spike Recovery	AAL Std. I.D. #	Status	Comments
23	14041 W	5/30/01	water	1x	84 | 24			✓	
4	Solv Blank	NA	Med.		NA →				
5	4250 PPM PRO CCV	↓	Std		105 | 97	94	015V164		
26	14030 W	5/30/01	water		87 | 86				
27	14037 W	↓	↓		96 | 45				
28	Solv Blank	NA	Med.		NA →				
29	4250 PPM PRO CCV	↓	Std		114 | 106	101	015V164		
30	Solv Blank		Med.		NA →			↓	

BP 6/5/01

051

Runlog_DRO-B.xls

Initials / Date: BP 6/5/01

SVO GC CALIBRATION CHECKLIST
SW-846-8000

DATE / INSTRUMENT: 3/22/01 ORO-B	METHOD: 8000
MATRIX: FL-PROPICAL (MeCl2)	

Are all standards within expiration dates for both stock and serial standards?	(Y)	N	NA
Is the Initial Calibration compliant with the method specifications?	(Y)	N	NA
Were daily retention time windows updated?	(Y)	N	NA
Is the runlog completely filled out (including review signature/date)?	(Y)	N	NA
Are all mistakes single lined, initialled, and dated?	(Y)	N	NA

Analyst: RL	Reviewer: YGR
Date: 03/26/01 Time: 16:05	Date: 03/27/01 Time: 13:10

INITIAL CALIBRATION
5 POINT DRO

DATE:	3/22/01			
METHOD:	FL-PRO			
INSTRUMENT:	DRO-B ; FRONT COLUMN			
ANALYST:	RL			
ICAL ID:	PRO0322			
CONCENTRATION (PPM)			**AREA**	**Rf**
850			55009551	64717.1
2550			148731650	58326.1
4250			228292638	53715.9
5950			304533890	51182.2
7692			359979107	46799.2
AVERAGE Rf:			54948.1	
% RSD:			12.5	

Response Factor Report DRO-B

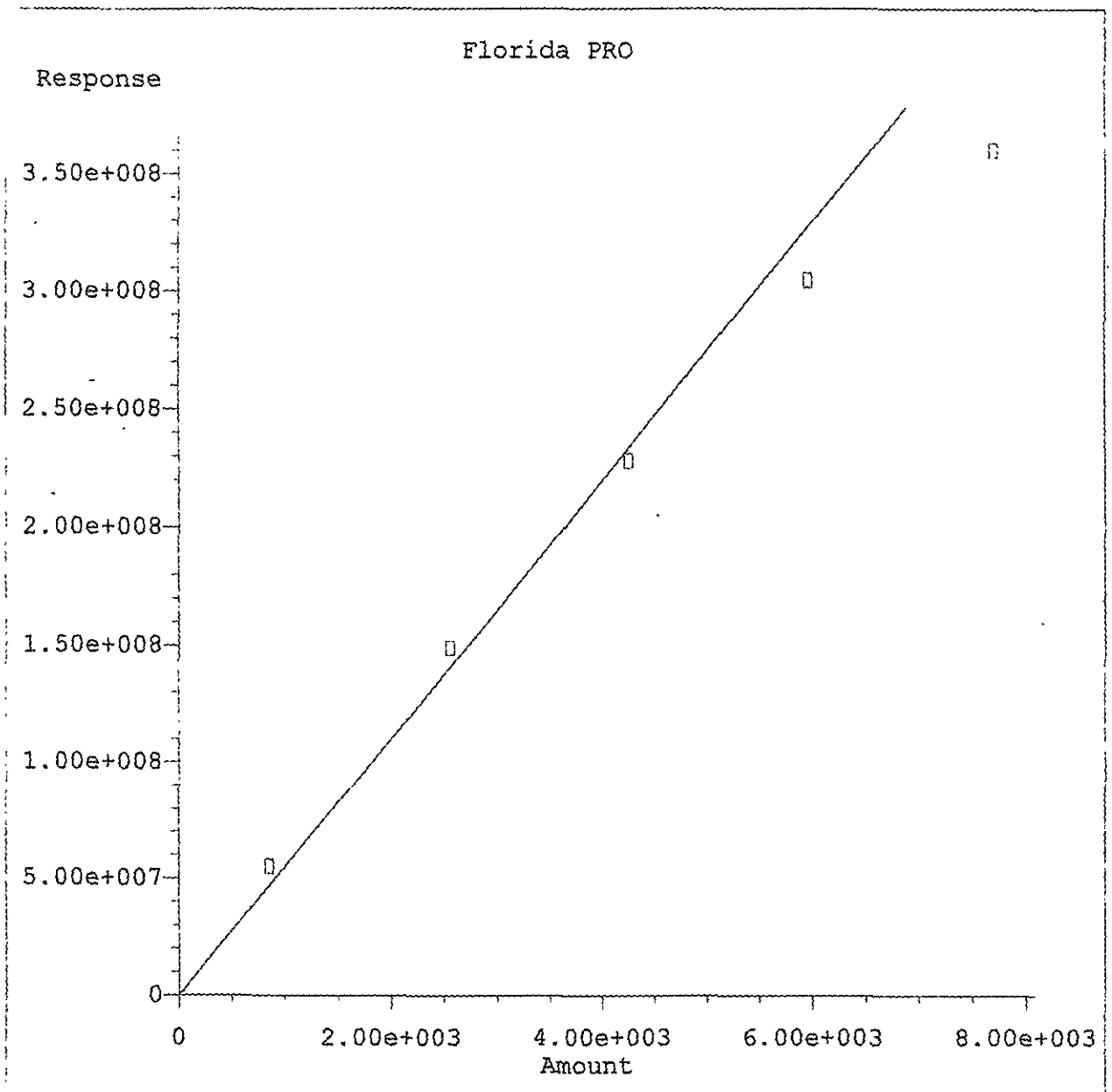
Method : C:\HPCHEM\2\METHODS\PRO0322.M (Chemstation Integrator)
Title : FLORIDA PRO BY GC; INST. #2
Last Update : Tue Mar 27 11:02:18 2001

Calibration Files
1 =03220102.D 2 =03220103.D 3 =03220104.D
4 =03220105.D 5 =03220106.D

	Compound	1	2	3	4	5	Avg	%RSD
1) HM	Florida PRO	6.472	5.833	5.372	5.118	4.680	5.495 E4	12.51
2) SC	o-TERPHENYL	4.992	4.766	5.060	5.128	4.648	4.919 E4	4.14
3) SC	C(39)	4.258	4.365	4.678	4.479	4.349	4.426 E4	3.65

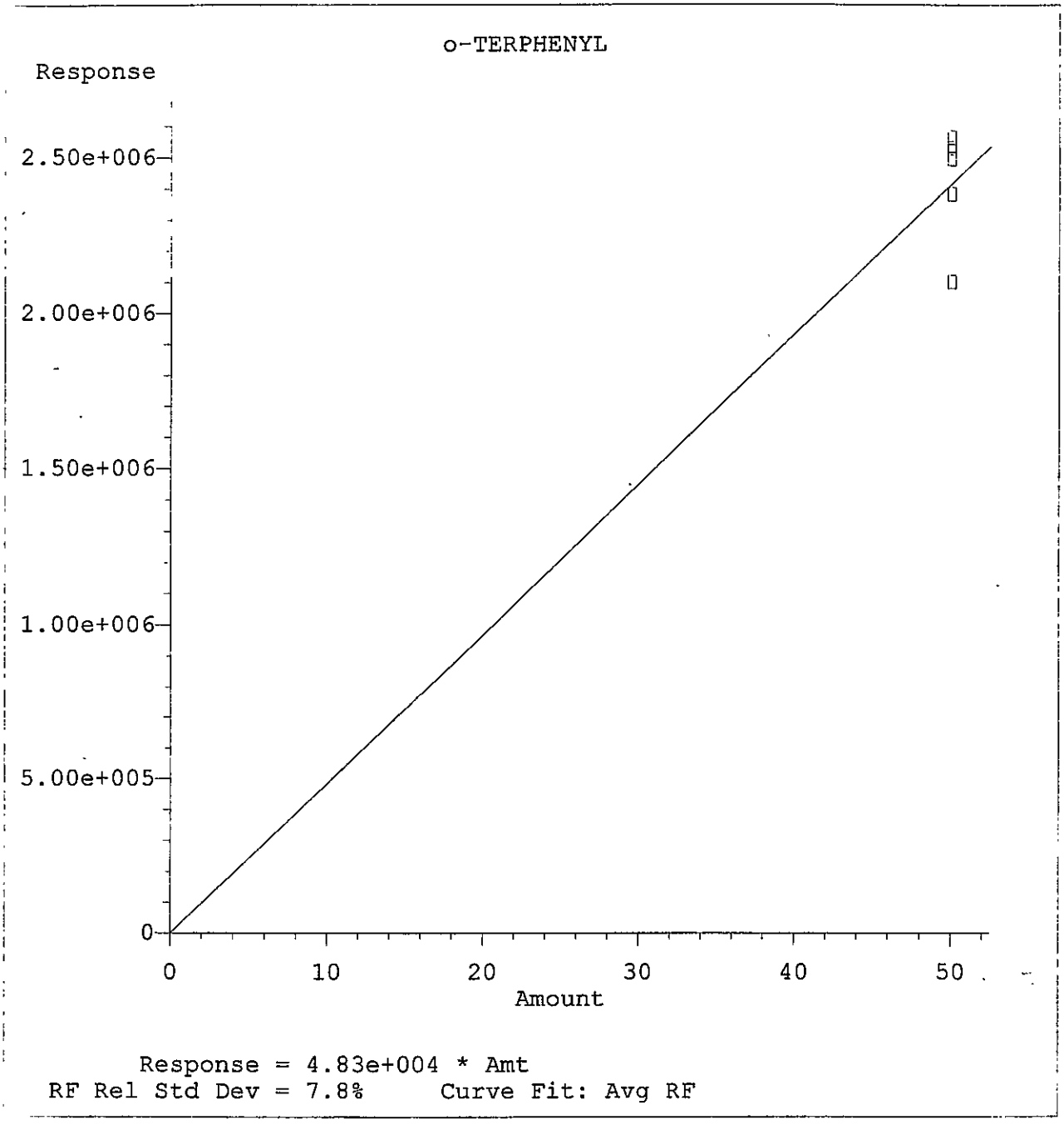
(#) = Out of Range

PRO0322.M Tue Mar 27 11:02:26 2001

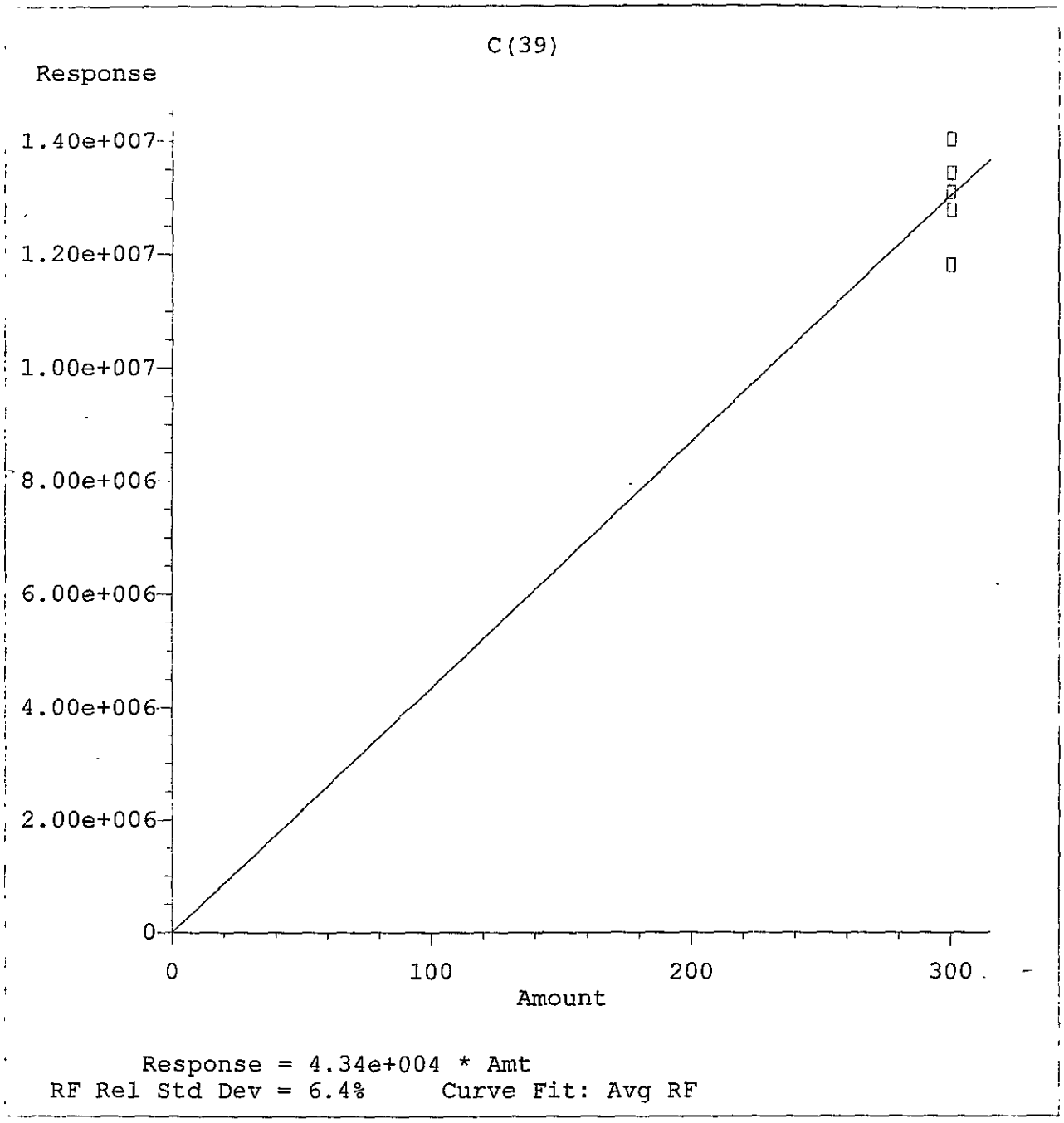


Response = 5.49e+004 * Amt
RF Rel Std Dev = 12.5% Curve Fit: Avg RF

Method Name: C:\HPCHEM\2\METHODS\PRO0322.M
Calibration Table Last Updated: Tue Jan 02 11:40:23 2001



Method Name: C:\HPCHEM\2\METHODS\PRO0322.M
Calibration Table Last Updated: Tue Jan 02 11:40:23 2001



Method Name: C:\HPCHEM\2\METHODS\PRO0322.M
Calibration Table Last Updated: Tue Jan 02 11:40:23 2001

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\032201\03220102.D Vial: 2
Acq On : 22 Mar 2001 9:35 Operator: RL
Sample : 850PHS PRO ICAL Inst : DRO-B
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Mar 22 10:17 2001 Quant Results File: PRO0315.RES

Quant Method : C:\HPCHEM\2\METHODS\PRO0315.M (Chemstation Integrator)
Title : FLORIDA PRO BY GC; INST. #2
Last Update : Tue Jan 02 11:40:23 2001
Response via : Initial Calibration
DataAcq Meth : PRO0315.M

Volume Inj. :
Signal Phase :
Signal Info :

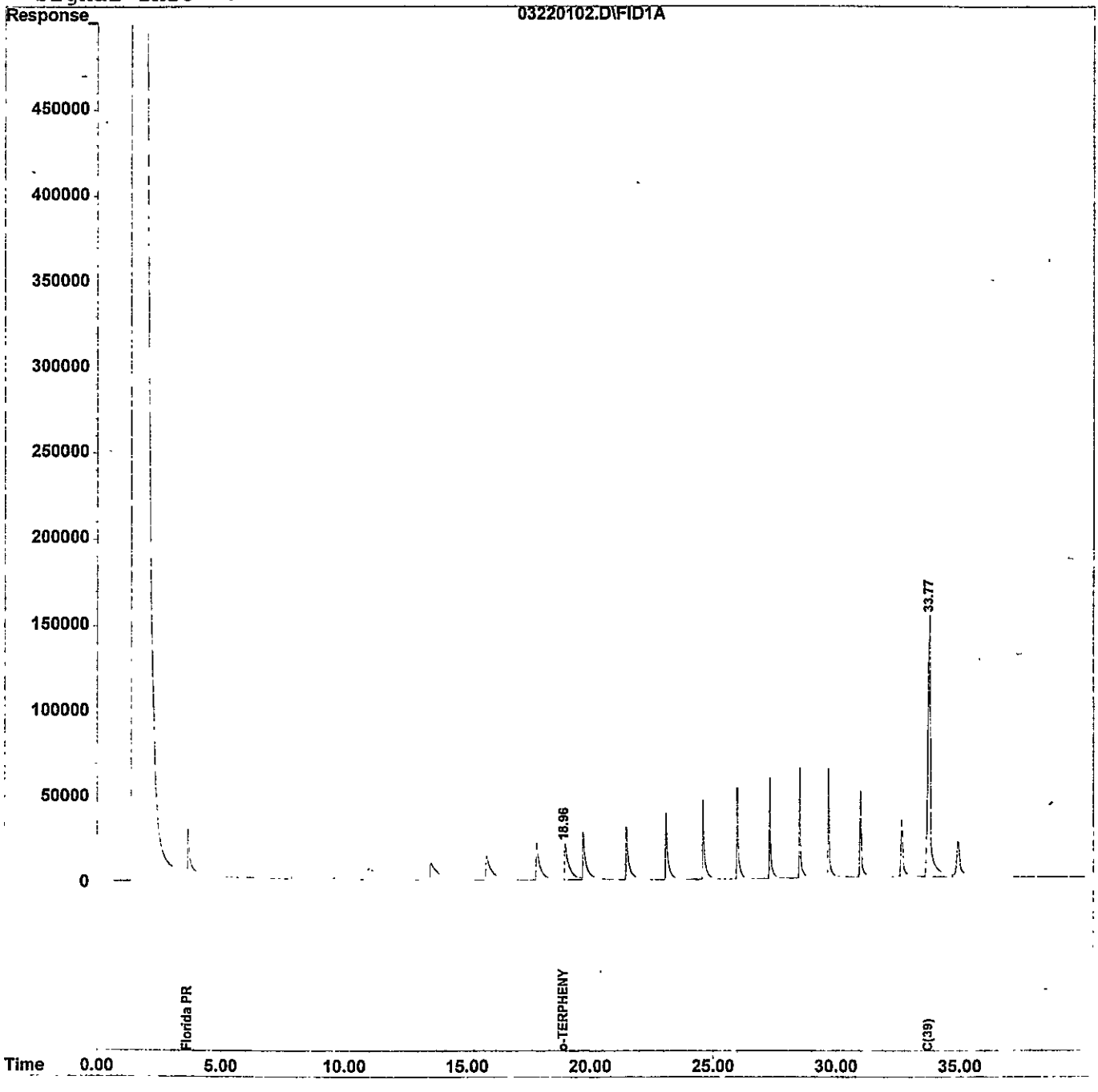
Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) SC o-TERPHENYL	18.96	2496228	38.776 ug/mlm
Spiked Amount 50.000	Recovery = 77.55%		
3) SC C(39)	33.77f	12774466	229.186 ug/mlm
Spiked Amount 300.000	Recovery = 76.40%		
Target Compounds			
1) HM Florida PRO	3.70	55009551	795.344 ug/ml

(f)=RT Delta > 1/2 Window (m)=manual int.

Data File : C:\HPCHEM\2\DATA\032201\03220102.D Vial: 2
Acq On : 22 Mar 2001 9:35 Operator: RL
Sample : 850PHS PRO ICAL Inst : DRO-B
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Mar 22 10:17 2001 Quant Results File: PRO0315.RES

Quant Method : C:\HPCHEM\2\METHODS\PRO0315.M (Chemstation Integrator)
Title : FLORIDA PRO BY GC; INST. #2
Last Update : Tue Jan 02 11:40:23 2001
Response via : Multiple Level Calibration
DataAcq Meth : PRO0315.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT evie ed

Data File : C:\HPCHEM\2\DATA\032201\03220103.D Vial: 3
Acq On : 22 Mar 2001 10:24 Operator: RL
Sample : 2550PHS PRO ICAL Inst : DRO-B
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Mar 22 11:18 2001 Quant Results File: PRO0315.RES

Quant Method : C:\HPCHEM\2\METHODS\PRO0315.M (Chemstation Integrator)
Title : FLORIDA PRO BY GC; INST. #2
Last Update : Tue Jan 02 11:40:23 2001
Response via : Initial Calibration
DataAcq Meth : PRO0315.M

Volume Inj. :
Signal Phase :
Signal Info :

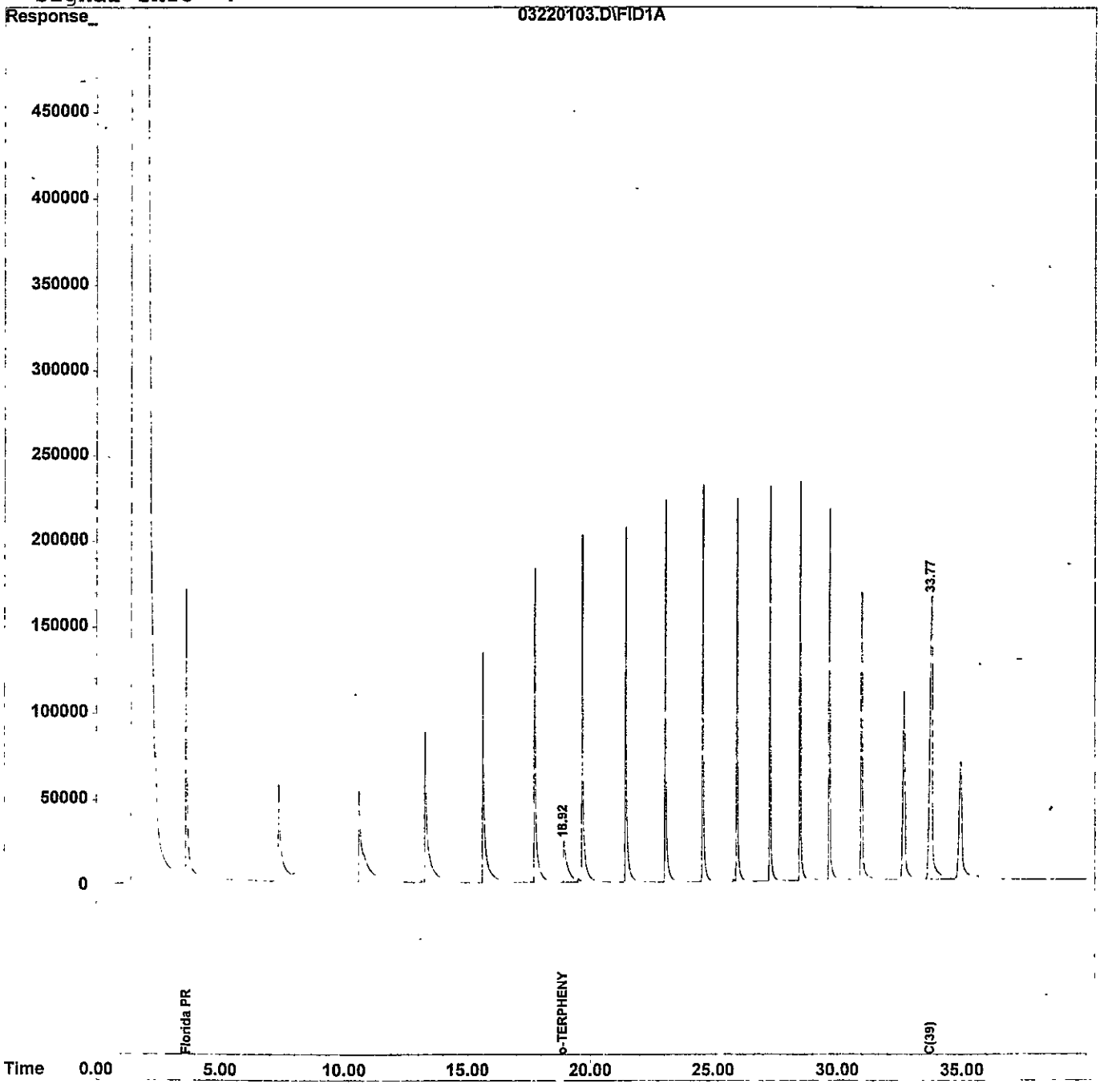
Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) SC o-TERPHENYL	18.92	2382941	37.016 ug/mlm
Spiked Amount 50.000	Recovery = 74.03%		
3) SC C(39)	33.77f	13095040	234.938 ug/mlm
Spiked Amount 300.000	Recovery = 78.31%		
Target Compounds			
1) HM Florida PRO	3.70	148731650	2150.405 ug/ml

(f)=RT Delta > 1/2 Window (m)=manual int.

Data File : C:\HPCHEM\2\DATA\032201\03220103.D Vial: 3
Acq On : 22 Mar 2001 10:24 Operator: RL
Sample : 2550PHS PRO ICAL Inst : DRO-B
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Mar 22 11:18 2001 Quant Results File: PRO0315.RES

Quant Method : C:\HPCHEM\2\METHODS\PRO0315.M (Chemstation Integrator)
Title : FLORIDA PRO BY GC; INST. #2
Last Update : Tue Jan 02 11:40:23 2001
Response via : Multiple Level Calibration
DataAcq Meth : PRO0315.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\032201\03220104.D Vial: 4
Acq On : 22 Mar 2001 11:12 Operator: RL
Sample : 4250PHS PRO ICAL Inst : DRO-B
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Mar 22 12:02 2001 Quant Results File: PRO0315.RES

Quant Method : C:\HPCHEM\2\METHODS\PRO0315.M (Chemstation Integrator)
Title : FLORIDA PRO BY GC; INST. #2
Last Update : Tue Jan 02 11:40:23 2001
Response via : Initial Calibration
DataAcq Meth : PRO0315.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) SC o-TERPHENYL	18.91	2530154	39.303 ug/mlm
Spiked Amount 50.000	Recovery = 78.61%		
3) SC C(39)	33.78	14035475	251.810 ug/mlm
Spiked Amount 300.000	Recovery = 83.94%		
Target Compounds			
1) HM Florida PRO	3.70	228292638	3300.720 ug/ml

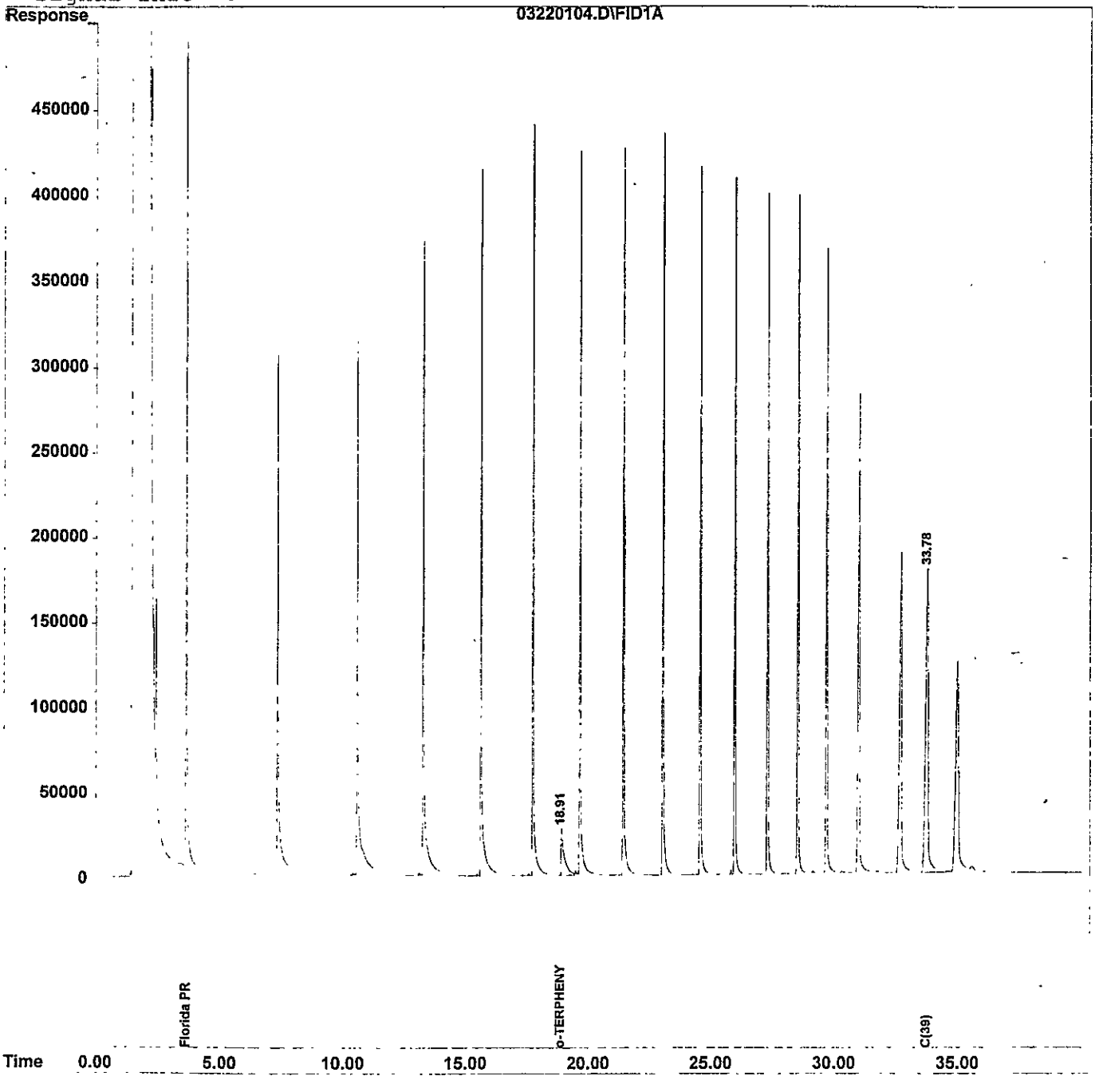
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\2\DATA\032201\03220104.D Vial: 4
Acq On : 22 Mar 2001 11:12 Operator: RL
Sample : 4250PHS PRO ICAL Inst : DRO-B
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Mar 22 12:02 2001 Quant Results File: PRO0315.RES

Quant Method : C:\HPCHEM\2\METHODS\PRO0315.M (Chemstation Integrator)
Title : FLORIDA PRO BY GC; INST. #2
Last Update : Tue Jan 02 11:40:23 2001
Response via : Multiple Level Calibration
DataAcq Meth : PRO0315.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\032201\03220105.D Vial: 5
Acq On : 22 Mar 2001 12:01 Operator: RL
Sample : 5950PHS PRO ICAL Inst : DRO-B
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Mar 22 12:44 2001 Quant Results File: PRO0315.RES

Quant Method : C:\HPCHEM\2\METHODS\PRO0315.M (Chemstation Integrator)
Title : FLORIDA PRO BY GC; INST. #2
Last Update : Tue Jan 02 11:40:23 2001
Response via : Initial Calibration
DataAcq Meth : PRO0315.M

Volume Inj. :
Signal Phase :
Signal Info :

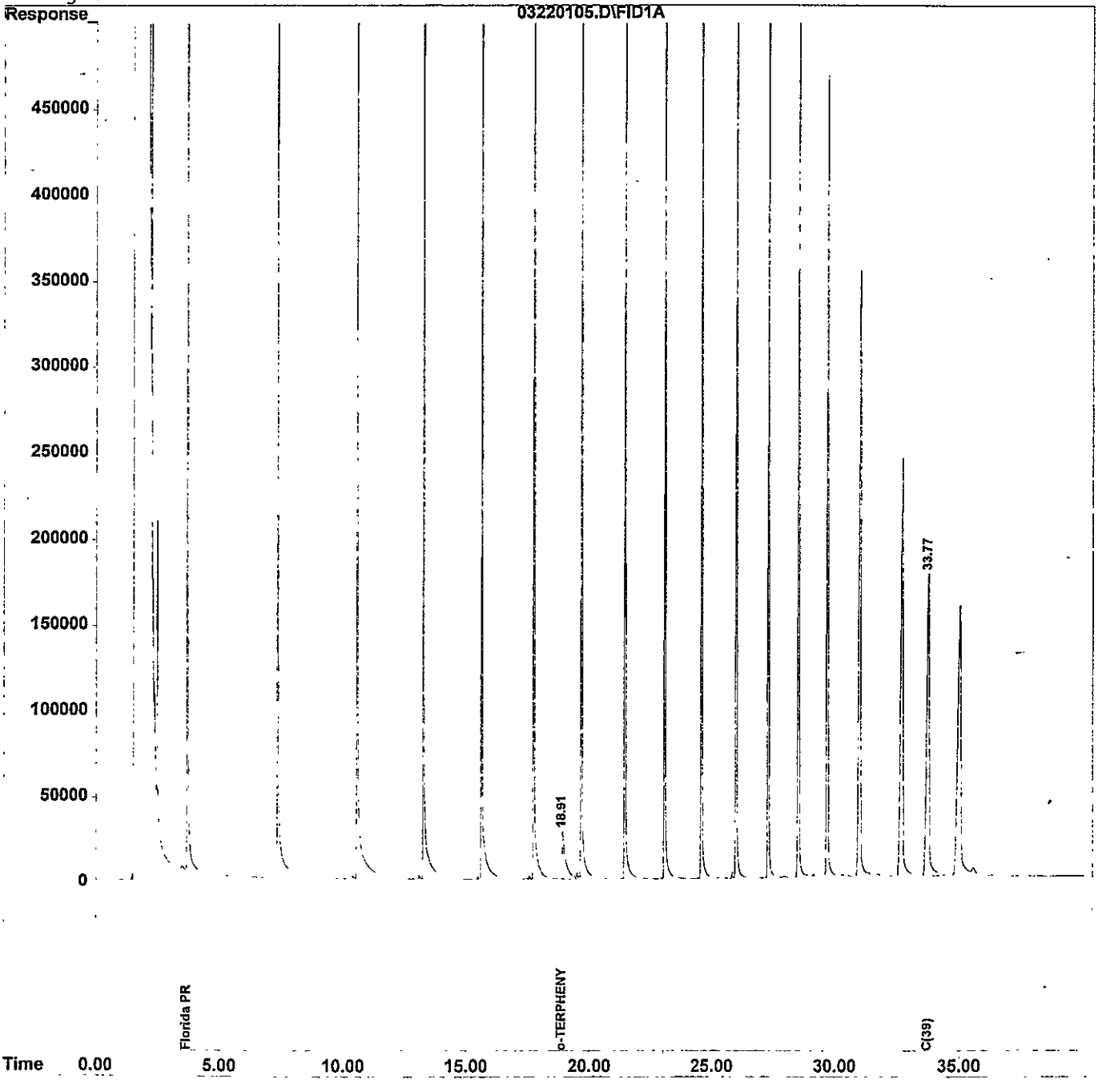
Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) SC o-TERPHENYL	18.91	2564073	39.830 ug/mlm
Spiked Amount 50.000	Recovery = 79.66%		
3) SC C(39)	33.77f	13435562	241.047 ug/mlm
Spiked Amount 300.000	Recovery = 80.35%		
Target Compounds			
1) HM Florida PRO	3.70	304533890	4403.038 ug/ml

(f)=RT Delta > 1/2 Window (m)=manual int.

Data File : C:\HPCHEM\2\DATA\032201\03220105.D Vial: 5
Acq On : 22 Mar 2001 12:01 Operator: RL
Sample : 5950PHS PRO ICAL Inst : DRO-B
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Mar 22 12:44 2001 Quant Results File: PRO0315.RES

Quant Method : C:\HPCHEM\2\METHODS\PRO0315.M (Chemstation Integrator)
Title : FLORIDA PRO BY GC; INST. #2
Last Update : Tue Jan 02 11:40:23 2001
Response via : Multiple Level Calibration
DataAcq Meth : PRO0315.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\032201\03220106.D Vial: 6
Acq On : 22 Mar 2001 12:49 Operator. RL
Sample : 7692PHS PRO ICAL Inst : DRO-B
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Mar 22 13:36 2001 Quant Results File: PRO0315.RES

Quant Method : C:\HPCHEM\2\METHODS\PRO0315.M (Chemstation Integrator)
Title : FLORIDA PRO BY GC; INST. #2
Last Update : Tue Jan 02 11:40:23 2001
Response via : Initial Calibration
DataAcq Meth : PRO0315.M

Volume Inj. :
Signal Phase :
Signal Info :

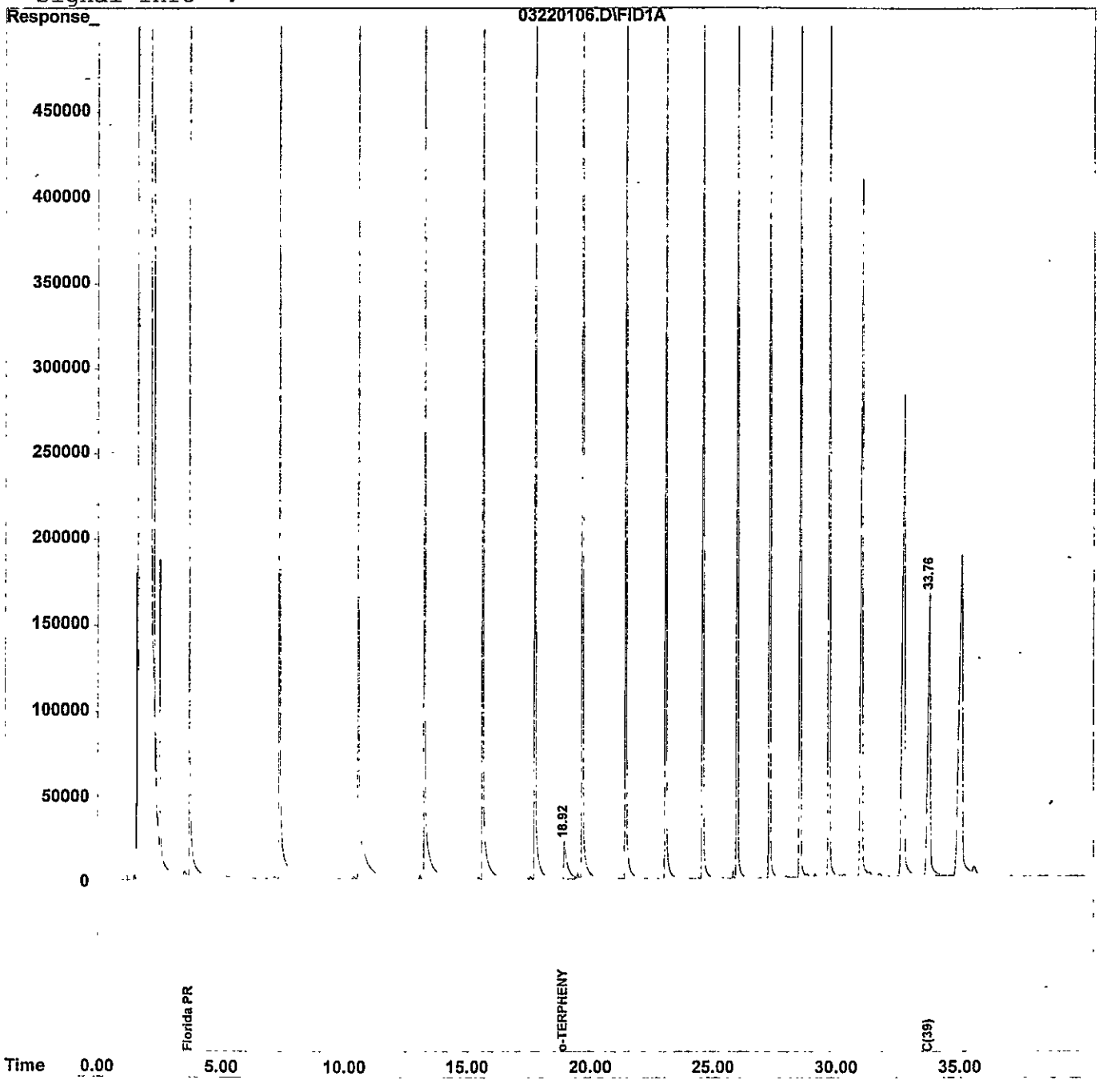
Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) SC o-TERPHENYL	18.92	2101045	32.637 ug/mlm
Spiked Amount 50.000	Recovery = 65.27%		
3) SC C(39)	33.76f	11806484	211.820 ug/mlm
Spiked Amount 300.000	Recovery = 70.61%		
Target Compounds			
1) HM Florida PRO	3.70	359979107	5204.681 ug/ml

(f)=RT Delta > 1/2 Wi~ (m)=manual int.

Data File : C:\HPCHEM\2\DATA\032201\03220106.D Vial: .
Acq On : 22 Mar 2001 12:49 Oper-tor: RL
Sample : 7692PHS PRO ICAL Inst : DRO-B
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Mar 22 13:36 2001 Quant Results File: PRO0315.RES

Quant Method : C:\HPCHEM\2\METHODS\PRO0315.M (Chemstation Integrator)
Title : FLORIDA PRO BY GC; INST. #2
Last Update : Tue Jan 02 11:40:23 2001
Response via : Multiple Level Calibration
DataAcq Meth : PRO0315.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\032201\03220107.D Vial: 7
Acq On : 22 Mar 2001 13:38 Operator: RL
Sample : 4250PHS PRO ICV Inst : DRO-B
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Mar 22 14:20 2001 Quant Results File: PRO0322.RES

Quant Method : C:\HPCHEM\2\METHODS\PRO0322.M (Chemstation Integrator)
Title : FLORIDA PRO BY GC; INST. #2
Last Update : Tue Jan 02 11:40:23 2001
Response via : Initial Calibration
DataAcq Meth : PRO0315.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) SC o-TERPHENYL	18.91	2431101	50.336 ug/mlm
Spiked Amount 50.000	Recovery = 100.67%		
3) SC C(39)	33.76	13192041	303.745 ug/mlm
Spiked Amount 300.000	Recovery = 101.25%		
Target Compounds			
1) HM Florida PRO	3.70	231160012	4206.879 ug/ml

99% ✓ RL

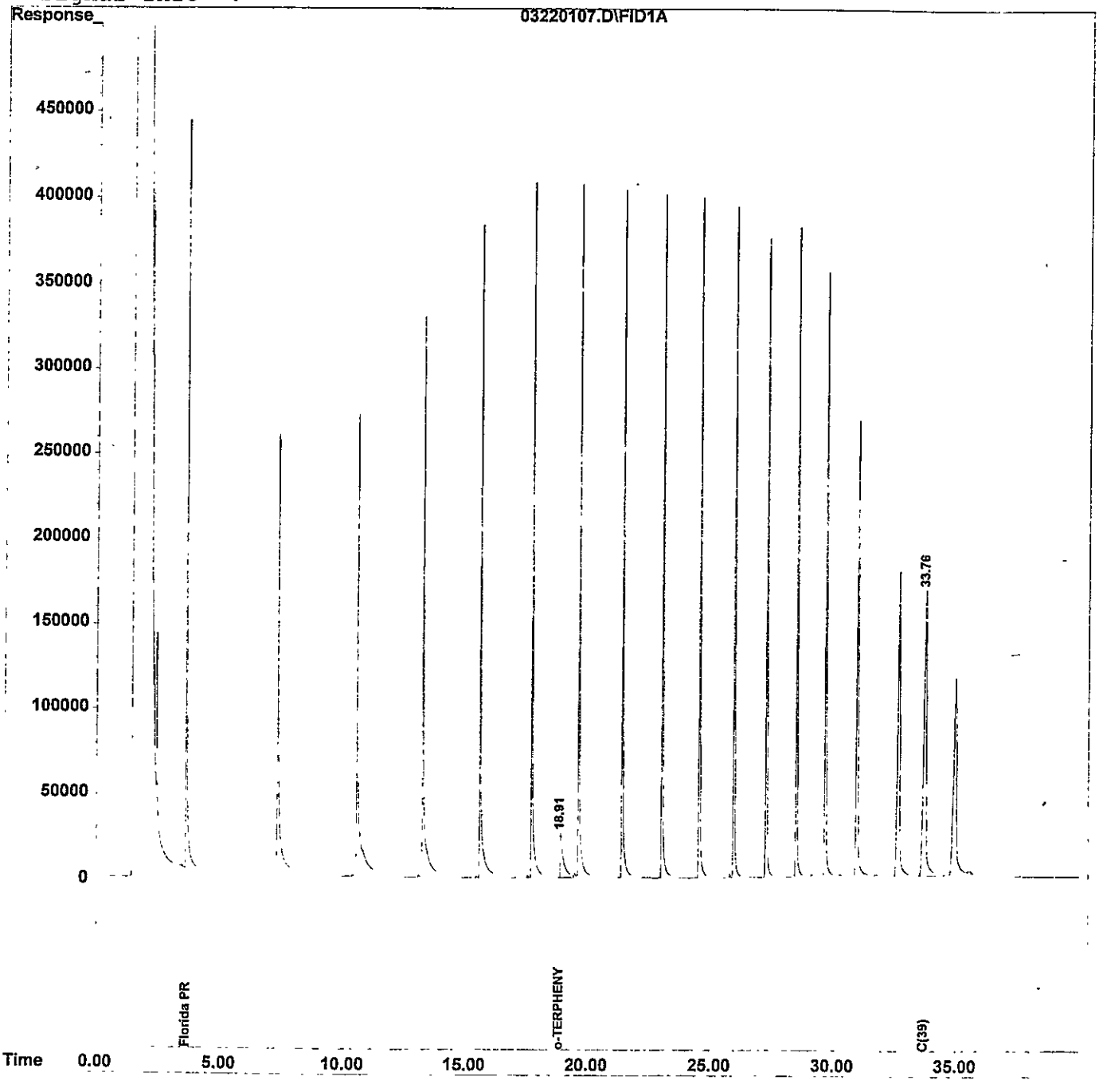
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\2\DATA\032201\03220107.D Vial: 7
Acq On : 22 Mar 2001 13:38 Operator: RL
Sample : 4250PHS PRO ICV Inst : DRO-B
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Mar 22 14:20 2001 Quant Results File: PRO0322.RES

Quant Method : C:\HPCHEM\2\METHODS\PRO0322.M (Chemstation Integrator)
Title : FLORIDA PRO BY GC; INST. #2
Last Update : Tue Jan 02 11:40:23 2001
Response via : Multiple Level Calibration
DataAcq Meth : PRO0315.M

Volume Inj. :
Signal Phase :
Signal Info :



Sequence Date: 03.22.01
Analyst Initials: RL
Run Method: PR00315
Quant Method: PR00322

	Sample	Blank/LCS
Water OTP/C(39) Limits	82-142 | 42-193	82-142 | 42-193
Soil OTP/C(39) Limits	62-109 | 60-118	62-109 | 62-118

Compound: FL-PRO
Date: 03.22.01

Vial Position	AAL Sample I.D. #	Extraction Date	Matrix	Dilution Factor	OTP/C(39) Recovery	Spike Recovery	AAL Std. I.D. #	Status	Comments
1	Solvent Blank	NA	Mecla	1X	NA | NA			✓	
2	850PHSPROICAL		Standard		78 | 76		015V052		
RL 03.22.01 3	4250PHSPROICAL				74 | 78		53		
4	4250PHSPROICAL				79 | 84		54		
5	5950PHSPROICAL				80 | 80		55		
6	7692PHSPROICAL				65 | 71		56		
7	4250PHSPROICV				101 | 101	99	015V058	RL 03.22.01	
8	Solvent Blank		Mecla		NA | NA				

RL
03.22.01

Initials / Date: RL 03.22.01

Runlog_DRO-B.xls

ACCURA ANALYTICAL LABORATORY, INC.

Environmental Analytical Services

Standard Name: FL-PROCCV
Lab Standard ID# 015V058
Prepared By: RL

Date Made: 03.22.01
Expire Date: 09.22.01
Matrix: MeCl2

Standard	Lot/Lab ID#	Conc.	Amount Used	Final Conc.
FL-PRO Standard	EX01187-9	500ppm	500ul	4250PHS
C(39)	501A055	3,000	100ul	300ppm
OTP	EX00151-1	10,000	5ul	50ppm
MeCl2	EX01185	—	395ul	-
			Diluted to 1,000ul	
		RL		
		03.22.01		

Standard Name: PAH Intermediate
Lab Standard ID# 015V059
Prepared By: RL

Date Made: 03.22.01
Expire Date: 09.22.01
Matrix: MeCl2

Standard	Lot/Lab ID#	Conc.	Amount Used	Final Conc.
PAH Standard	5AA021	1,000ppm	1ml=1,000ul	200ppm
1methylnaphthalene	501A023	2,000ppm	500ul	200ppm
MeCl2	EX00185	—	3,500ul	—
		RL		
		03.22.01		

ACCURA ANALYTICAL LABORATORY, INC.

Environmental Analytical Services

Standard Name: FL-PRO ICAL
Lab Standard ID# 015V052-056
Prepared By: RL

Date Made: 03·22·01
Expire Date: 09·22·01
Matrix: $MeCl_2$

Standard	Lot\Lab ID#	Conc.	Amount Used	Final Conc.
FL-PRO Standard	EX01187-9,-7,-8	500 ppm	100ul	850 PHS
↓	↓	↓	300ul	2550 ↓
			500ul	4250
			700ul	5950
			1000ul	7692
OTP	EX00151-1	10,000 RL 03·22·01	~~50ul~~ ~~100~~ 5.0ul	50 ppm
C(39)PRO	S01A055	3,000 RL 03·22·01	~~50ul~~ 100 ul	300 ppm
$MeCl_2$	EX00185	–	Dilute to 1000ul	–

OTP + C(39) were added to each standard then standard diluted to 1,000ul with $MeCl_2$. For last point the total volume is 1,105ul leading to a PHS of 7692 not 8500. Also because of volume change the OTP = 45.2 and C(39) = 271.5. These values have been changed in curve.

Standard Name: FL-PRO ICV
Lab Standard ID# 015V057
Prepared By: RL

Date Made: 03·22·01
Expire Date: 09·22·01
Matrix: $MeCl_2$

Standard	Lot\Lab ID#	Conc.	Amount Used	Final Conc.
FL-PRO Standard	S01A063	500 ppm	500ul	4250 PHS
C(39)PRO Surrogate	S01A054	3,000 ppm	100ul	300 ppm
OTP	EX00151-2	10,000 ppm	5ul	50 ppm
$MeCl_2$	EX00185	–	395ul	–
		RL 03·22·01		

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\060401\06040102.D Vial: 2
Acq On : 4 Jun 2001 10:46 Operator: BP
Sample : 4250 PPM PRO CCV Inst : DRO-B
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Jun 4 11:31 2001 Quant Results File: PRO0322.RES

Quant Method : C:\HPCHEM\2\METHODS\PRO0322.M (Chemstation Integrator)
Title : FLORIDA PRO BY GC; INST. #2
Last Update : Tue Jan 02 11:40:23 2001
Response via : Initial Calibration
DataAcq Meth : PRO0322.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) SC o-TERPHENYL	18.81f.	2475183	51.248 ug/mlm
Spiked Amount 50.000	Recovery = 102.50%		
3) SC C(39)	33.49f	11773728	271.088 ug/mlm
Spiked Amount 300.000	Recovery = 90.36%		
Target Compounds			
1) HM Florida PRO	3.70	217375491	3956.015 ug/ml

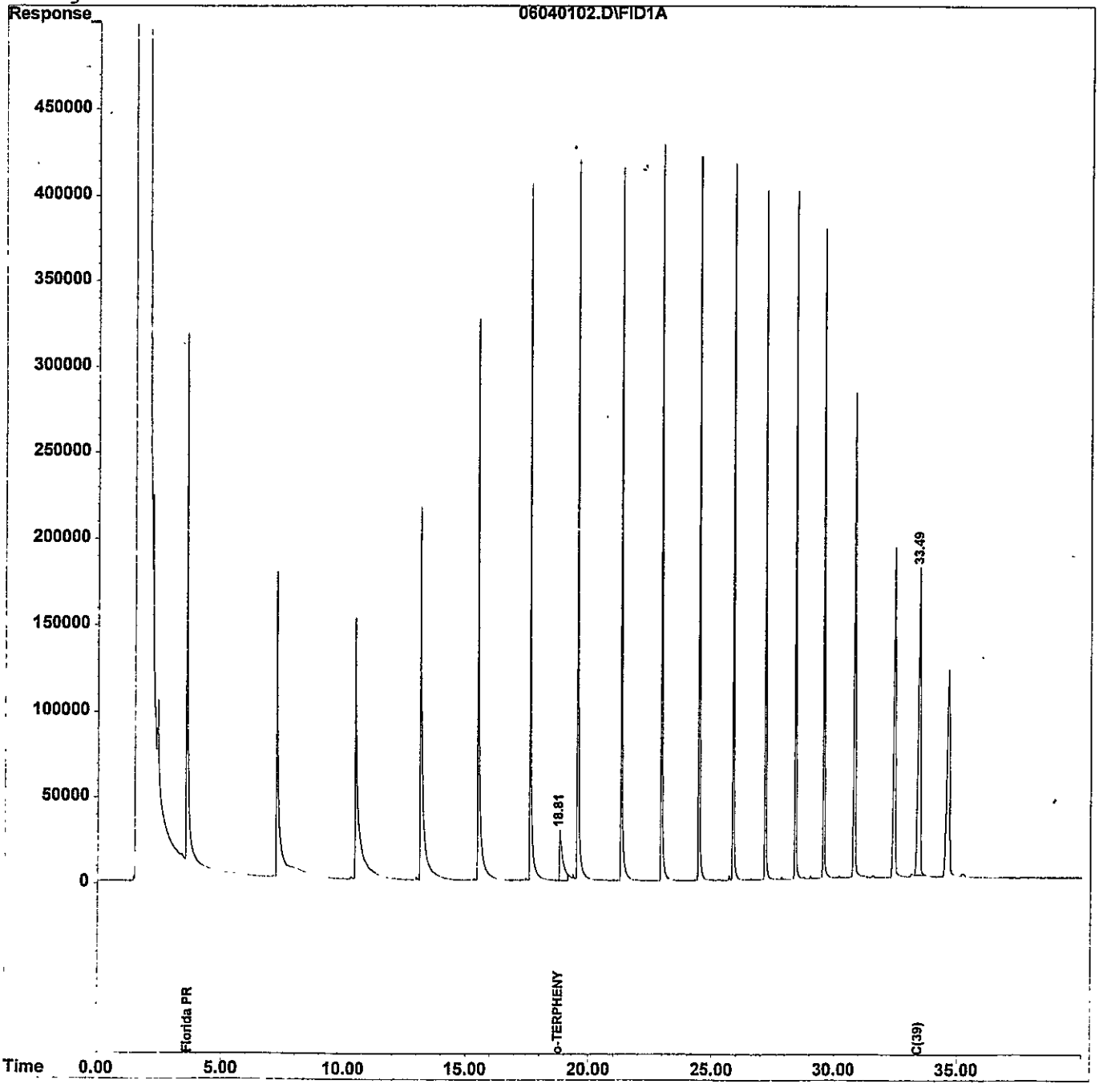
$\frac{3956.015}{4250} = 93\%$

(f)=RT Delta > 1/2 Window (m)=manual int.

Data File : C:\HPCHEM\2\DATA\060401\06040102.D Vial: 2
Acq On : 4 Jun 2001 10:46 Operator: BP
Sample : 4250 PPM PRO CCV Inst : DRO-B
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Jun 4 11:31 2001 Quant Results File: PRO0322.RES

Quant Method : C:\HPCHEM\2\METHODS\PRO0322.M (Chemstation Integrator)
Title : FLORIDA PRO BY GC; INST. #2
Last Update : Tue Jan 02 11:40:23 2001
Response via : Multiple Level Calibration
DataAcq Meth : PRO0322.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\060401\06040114.D Vial: 14
Acq On : 4 Jun 2001 20:29 Operator: BP
Sample : 4250 PPM PRO CCV Inst : DRO-B
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Jun 5 7:04 2001 Quant Results File: PRO0322.RES

Quant Method : C:\HPCHEM\2\METHODS\PRO0322.M (Chemstation Integrator)
Title : FLORIDA PRO BY GC; INST. #2
Last Update : Tue Jan 02 11:40:23 2001
Response via : Initial Calibration
DataAcq Meth : PRO0322.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) SC o-TERPHENYL	18.80f.	2524997	52.280 ug/mlm
Spiked Amount 50.000	Recovery = 104.56%		
3) SC C(39)	33.46f	13088144	301.352 ug/mlm
Spiked Amount 300.000	Recovery = 100.45%		
Target Compounds			
1) HM Florida PRO	3.70	223329896	4064.379 ug/ml

$\frac{4064.379}{4250} = 96\%$

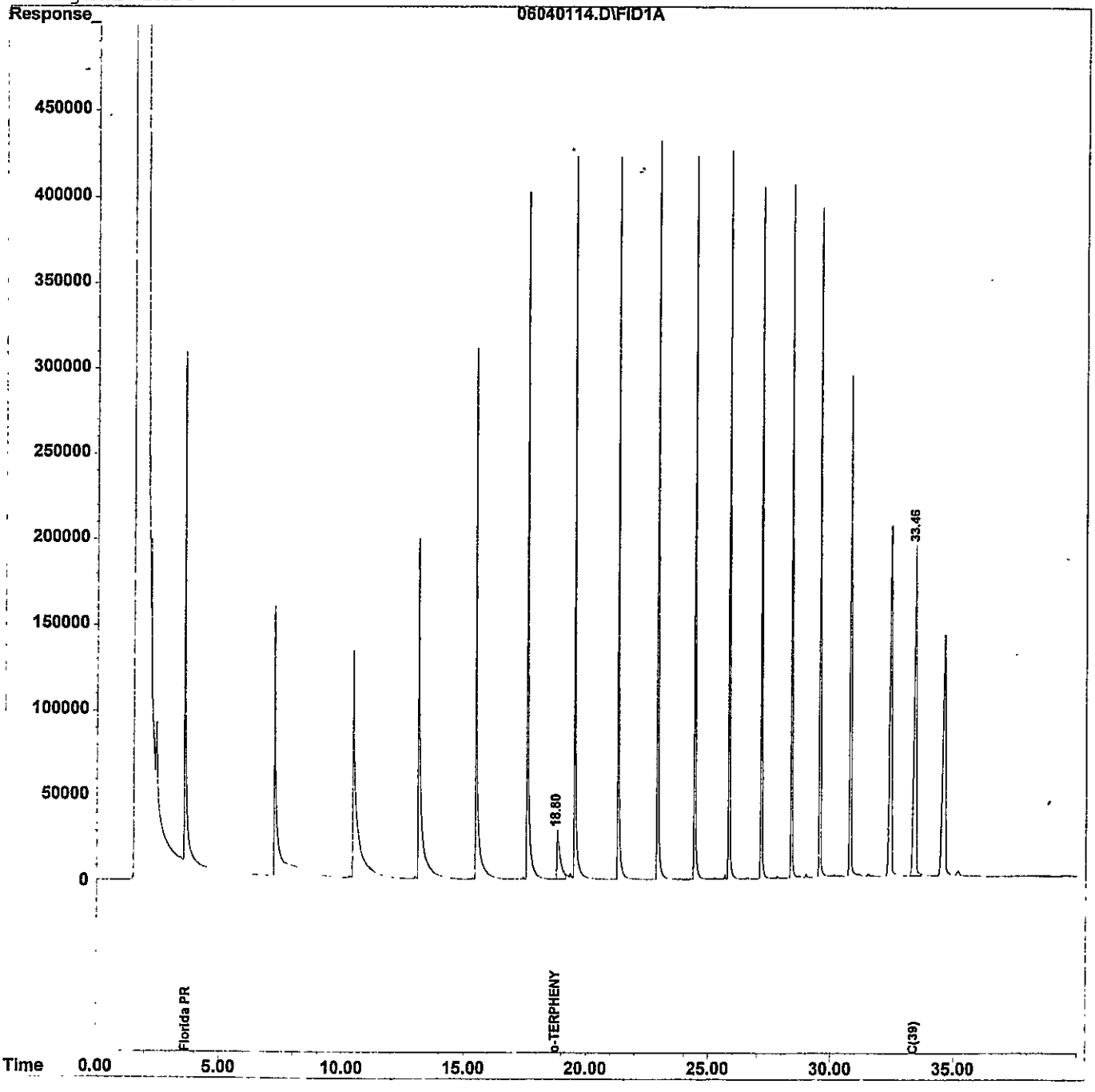
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\2\DATA\060401\06040114.D Vial: 14
Acq On : 4 Jun 2001 20:29 Operator: BP
Sample : 4250 PPM PRO CCV Inst : DRO-B
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Jun 5 7:04 2001 Quant Results File: PRO0322.RES

Quant Method : C:\HPCHEM\2\METHODS\PRO0322.M (Chemstation Integrator)
Title : FLORIDA PRO BY GC; INST. #2
Last Update : Tue Jan 02 11:40:23 2001
Response via : Multiple Level Calibration
DataAcq Meth : PRO0322.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\060401\06040125.D Vial: 25
Acq On : 5 Jun 2001 5:21 Operator: BP
Sample : 4250 PPM PRO CCV Inst : DRO-B
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Jun 5 7:07 2001 Quant Results File: PRO0322.RES

Quant Method : C:\HPCHEM\2\METHODS\PRO0322.M (Chemstation Integrator)
Title : FLORIDA PRO BY GC; INST. #2
Last Update : Tue Jan 02 11:40:23 2001
Response via : Initial Calibration
DataAcq Meth : PRO0322.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) SC o-TERPHENYL	18.86f	2547036	52.736 ug/mlm
Spiked Amount 50.000	Recovery = 105.47%		
3) SC C(39)	33.61	12664528	291.599 ug/mlm
Spiked Amount 300.000	Recovery = 97.20%		
Target Compounds			
1) HM Florida PRO	3.70	218936051	3984.415 ug/ml

$\frac{3984.415}{4250} = 94\%$

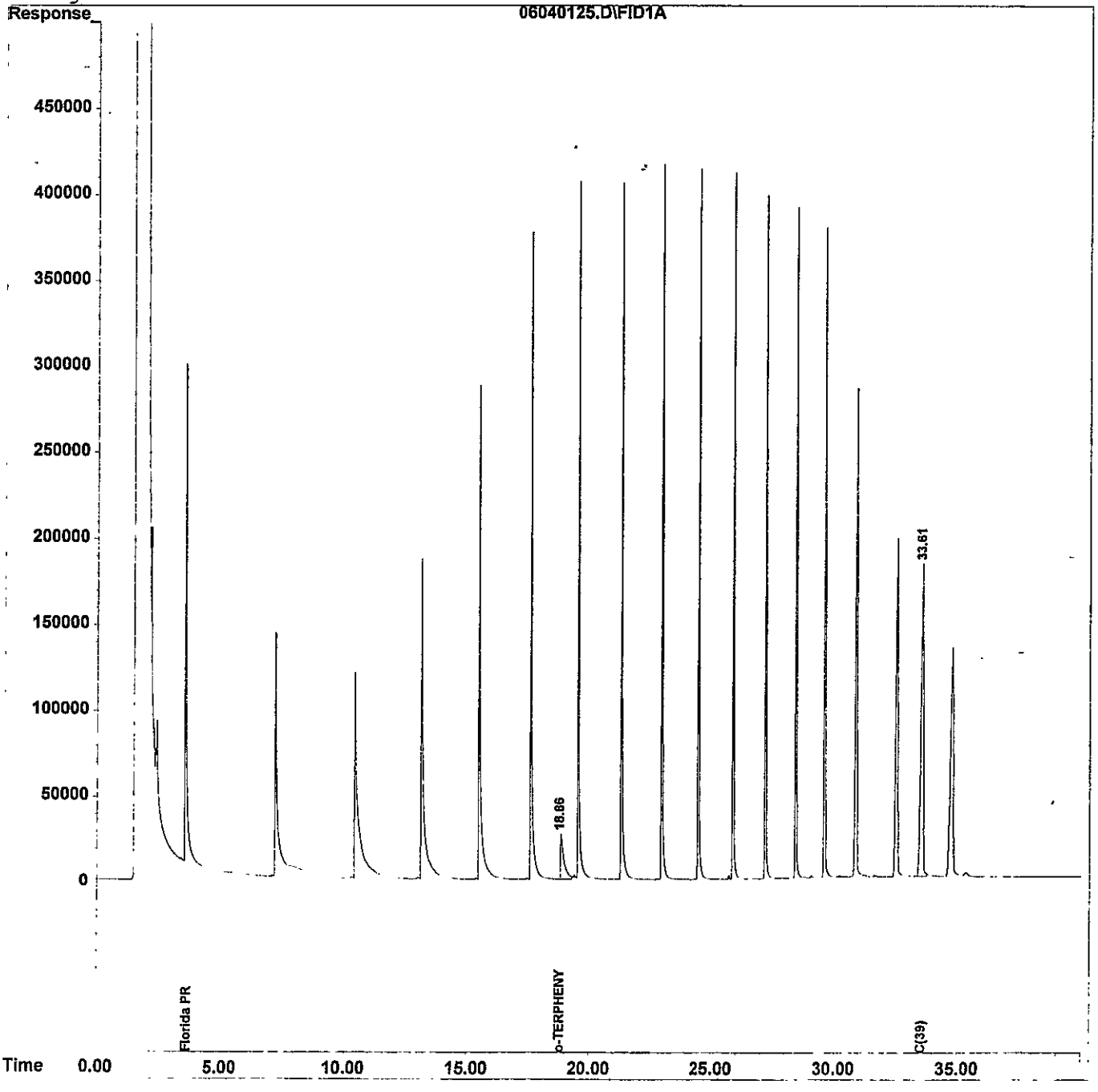
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\2\DATA\060401\06040125.D Vial: 25
Acq On : 5 Jun 2001 5:21 Operator: BP
Sample : 4250 PPM PRO CCV Inst : DRO-B
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Jun 5 7:07 2001 Quant Results File: PRO0322.RES

Quant Method : C:\HPCHEM\2\METHODS\PRO0322.M (Chemstation Integrator)
Title : FLORIDA PRO BY GC; INST. #2
Last Update : Tue Jan 02 11:40:23 2001
Response via : Multiple Level Calibration
DataAcq Meth : PRO0322.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\060401\06040129.D Vial: 29
Acq On : 5 Jun 2001 8:34 Operator: BP
Sample : 4250 PPM PRO CCV Inst : DRO-B
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Jun 5 9:21 2001 Quant Results File: PRO0322.RES

Quant Method : C:\HPCHEM\2\METHODS\PRO0322.M (Chemstation Integrator)
Title : FLORIDA PRO BY GC; INST. #2
Last Update : Tue Jan 02 11:40:23 2001
Response via : Initial Calibration
DataAcq Meth : PRO0322.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) SC o-TERPHENYL	18.82f	2742074	56.774 ug/mlm
Spiked Amount 50.000	Recovery = 113.55%		
3) SC C(39)	33.50f	13791304	317.543 ug/mlm
Spiked Amount 300.000	Recovery = 105.85%		
Target Compounds			
1) HM Florida PRO	3.70	234855393	4274.131 ug/ml

$\frac{4274}{4250} = 101\%$

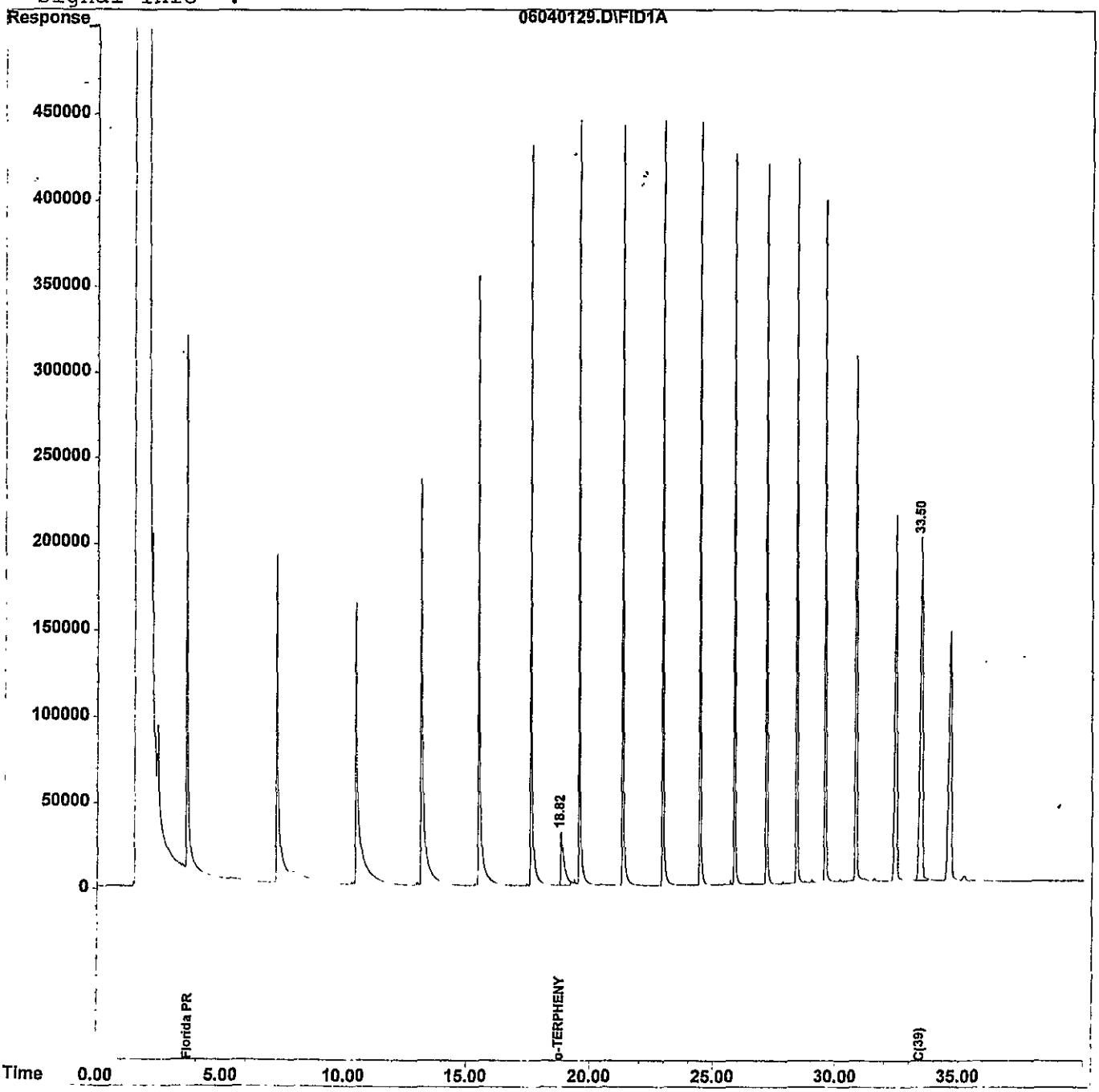
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\2\DATA\060401\06040129.D Vial: 29
Acq On : 5 Jun 2001 8:34 Operator: BP
Sample : 4250 PPM PRO CCV Inst : DRO-B
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Jun 5 9:21 2001 Quant Results File: PRO0322.RES

Quant Method : C:\HPCHEM\2\METHODS\PRO0322.M (Chemstation Integrator)
Title : FLORIDA PRO BY GC; INST. #2
Last Update : Tue Jan 02 11:40:23 2001
Response via : Multiple Level Calibration
DataAcq Meth : PRO0322.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\060401\06040105.D Vial: 5
Acq On : 4 Jun 2001 13:12 Operator: BP
Sample : 14039 W MS Inst : DRO-B
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Jun 4 14:03 2001 Quant Results File: PRO0322.RES

Quant Method : C:\HPCHEM\2\METHODS\PRO0322.M (Chemstation Integrator)
Title : FLORIDA PRO BY GC; INST. #2
Last Update : Tue Jan 02 11:40:23 2001
Response via : Initial Calibration
DataAcq Meth : PRO0322.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) SC o-TERPHENYL	18.84f	1968949	40.767 ug/mlm
Spiked Amount 50.000	Recovery =		81.53%
3) SC C(39)	33.37f	2550194	58.718 ug/mlm
Spiked Amount 300.000	Recovery =		19.57%
Target Compounds			
1) HM Florida PRO	3.70	156885887	2855.165 ug/ml

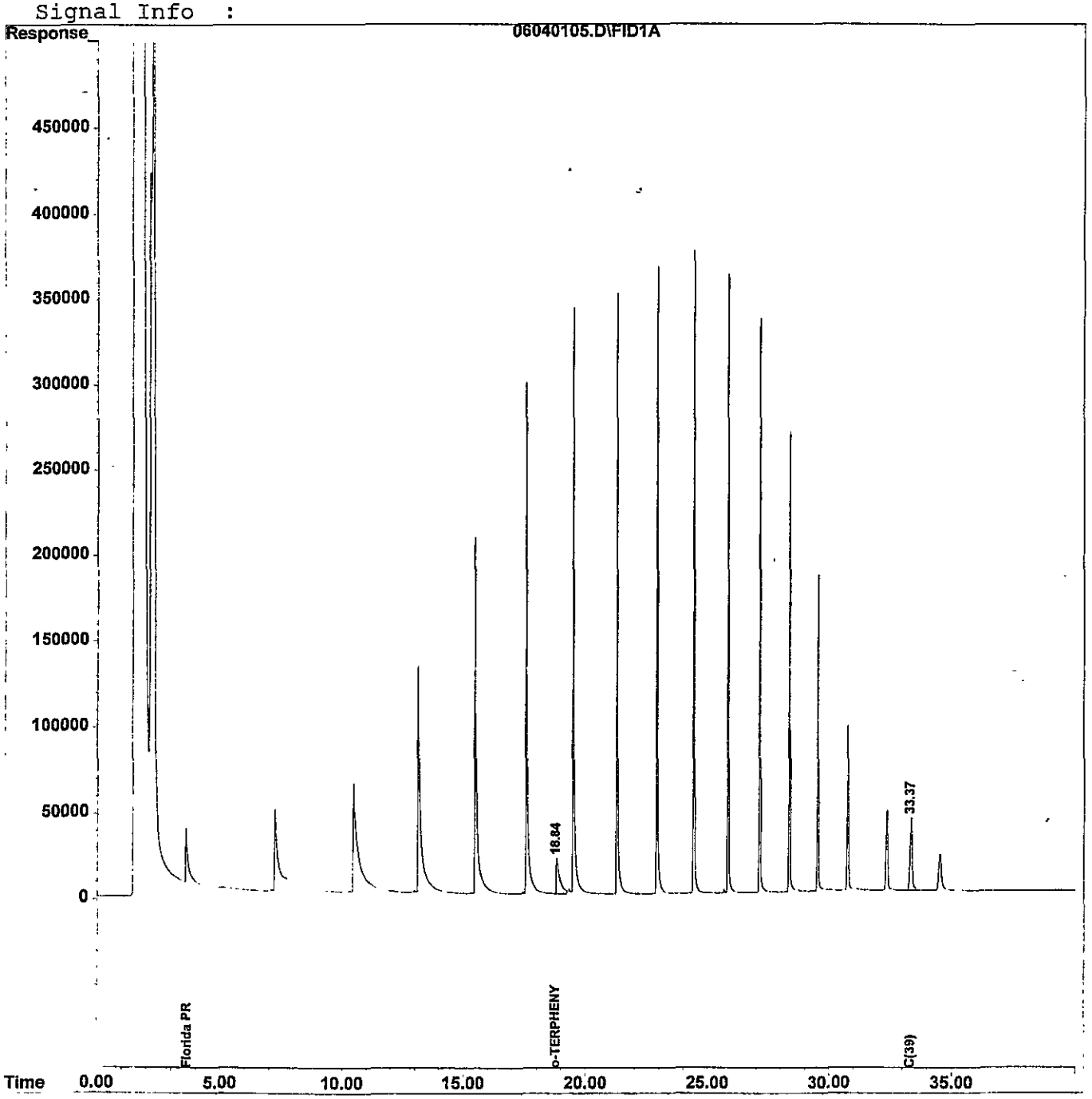
$$\frac{2273.809 - 581.356}{4250} = 54\%$$

(f)=RT Delta > 1/2 Window (m)=manual int.

Data File : C:\HPCHEM\2\DATA\060401\06040105.D Vial: 5
Acq On : 4 Jun 2001 13:12 Operator: BP
Sample : 14039 W MS Inst : DRO-B
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Jun 4 14:03 2001 Quant Results File: PRO0322.RES

Quant Method : C:\HPCHEM\2\METHODS\PRO0322.M (Chemstation Integrator)
Title : FLORIDA PRO BY GC; INST. #2
Last Update : Tue Jan 02 11:40:23 2001
Response via : Multiple Level Calibration
DataAcq Meth : PRO0322.M

Volume Inj. :
Signal Phase :
Signal Info :



Data File : C:\HPCHEM\2\DATA\060401\06040106.D Vial: 6
Acq On : 4 Jun 2001 14:00 Operator: BP
Sample : 14039 W MSD Inst : DRO-B
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Jun 4 14:44 2001 Quant Results File: PRO0322.RES

Quant Method : C:\HPCHEM\2\METHODS\PRO0322.M (Chemstation Integrator)
Title : FLORIDA PRO BY GC; INST. #2
Last Update : Tue Jan 02 11:40:23 2001
Response via : Initial Calibration
DataAcq Meth : PRO0322.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) SC o-TERPHENYL	18.84f.	2041287	42.265 ug/mlm
Spiked Amount 50.000	Recovery =		84.53%
3) SC C(39)	33.37f	2600046	59.866 ug/mlm
Spiked Amount 300.000	Recovery =		19.96%
Target Compounds			
1) HM Florida PRO	3.70	161176190	2933.244 ug/ml

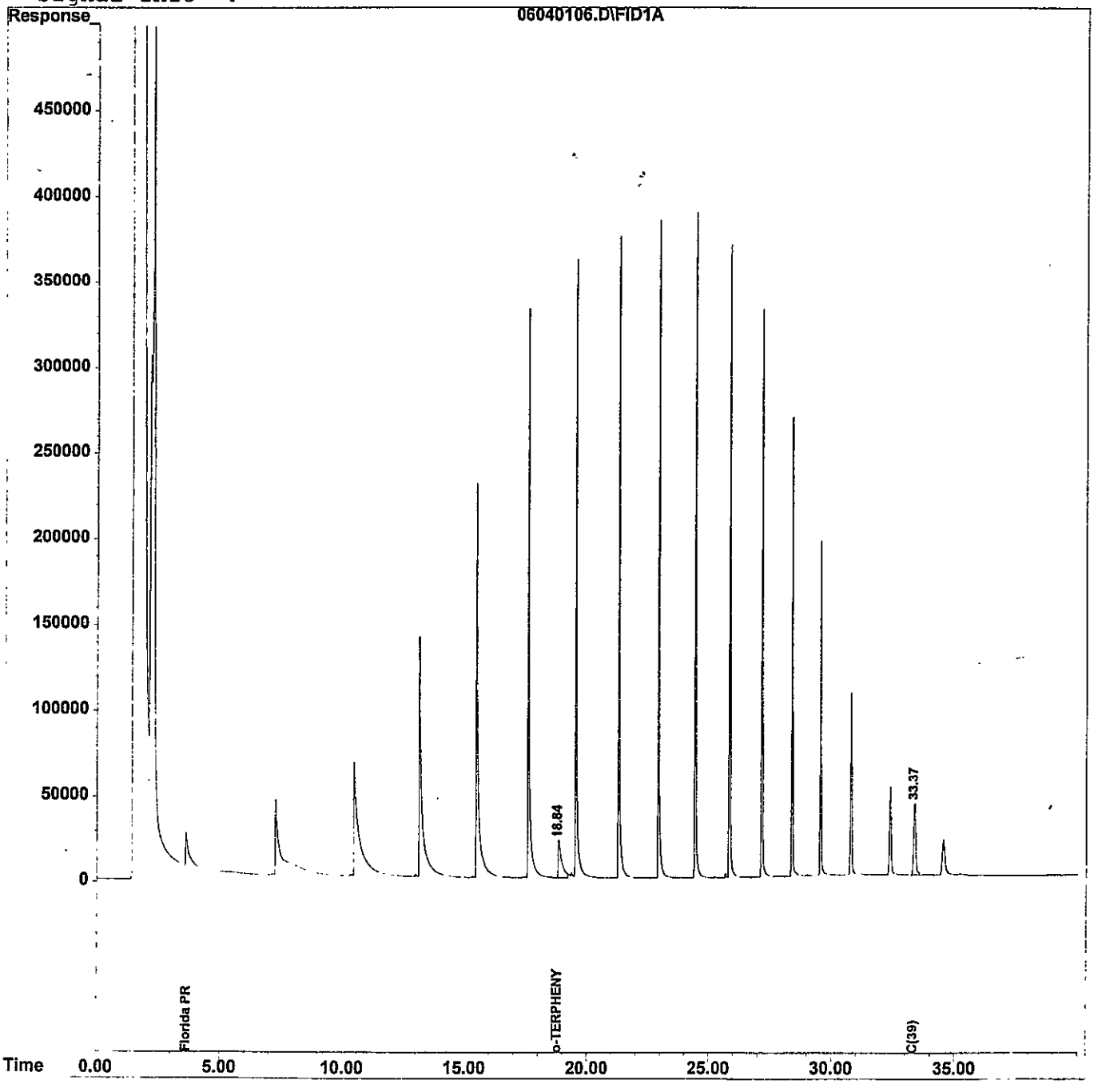
$$\frac{2351.888 - 581.35}{450} = 55\%$$

Quantitation Report

Data File : C:\HPCHEM\2\DATA\060401\06040106.D Vial: 6
Acq On : 4 Jun 2001 14:00 Operator: BP
Sample : 14039 W MSD Inst : DRO-B
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Jun 4 14:44 2001 Quant Results File: PRO0322.RES

Quant Method : C:\HPCHEM\2\METHODS\PRO0322.M (Chemstation Integrator)
Title : FLORIDA PRO BY GC; INST. #2
Last Update : Tue Jan 02 11:40:23 2001
Response via : Multiple Level Calibration
DataAcq Meth : PRO0322.M

Volume Inj. :
Signal Phase :
Signal Info :



Data File : C:\HPCHEM\2\DATA\060401\060401[illegible].D Vial: 7
Acq On : 4 Jun 2001 14:49 Operator: BP
Sample : 14039 W Inst : DRO-B
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Jun 5 7:14 2001 Quant Results File: PRO0322.RES

Quant Method : C:\HPCHEM\2\METHODS\PRO0322.M (Chemstation Integrator)
Title : FLORIDA PRO BY GC; INST. #2
Last Update : Tue Jan 02 11:40:23 2001
Response via : Initial Calibration
DataAcq Meth : PRO0322.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) SC o-TERPHENYL	18.97	2345941	48.572 ug/mlm
Spiked Amount 50.000	Recovery =		97.14%
3) SC C(39)	33.46f	4082995	94.010 ug/mlm
Spiked Amount 300.000	Recovery =		31.34%
Target Compounds			
1) HM Florida PRO	3.70	31944394	581.356 ug/ml

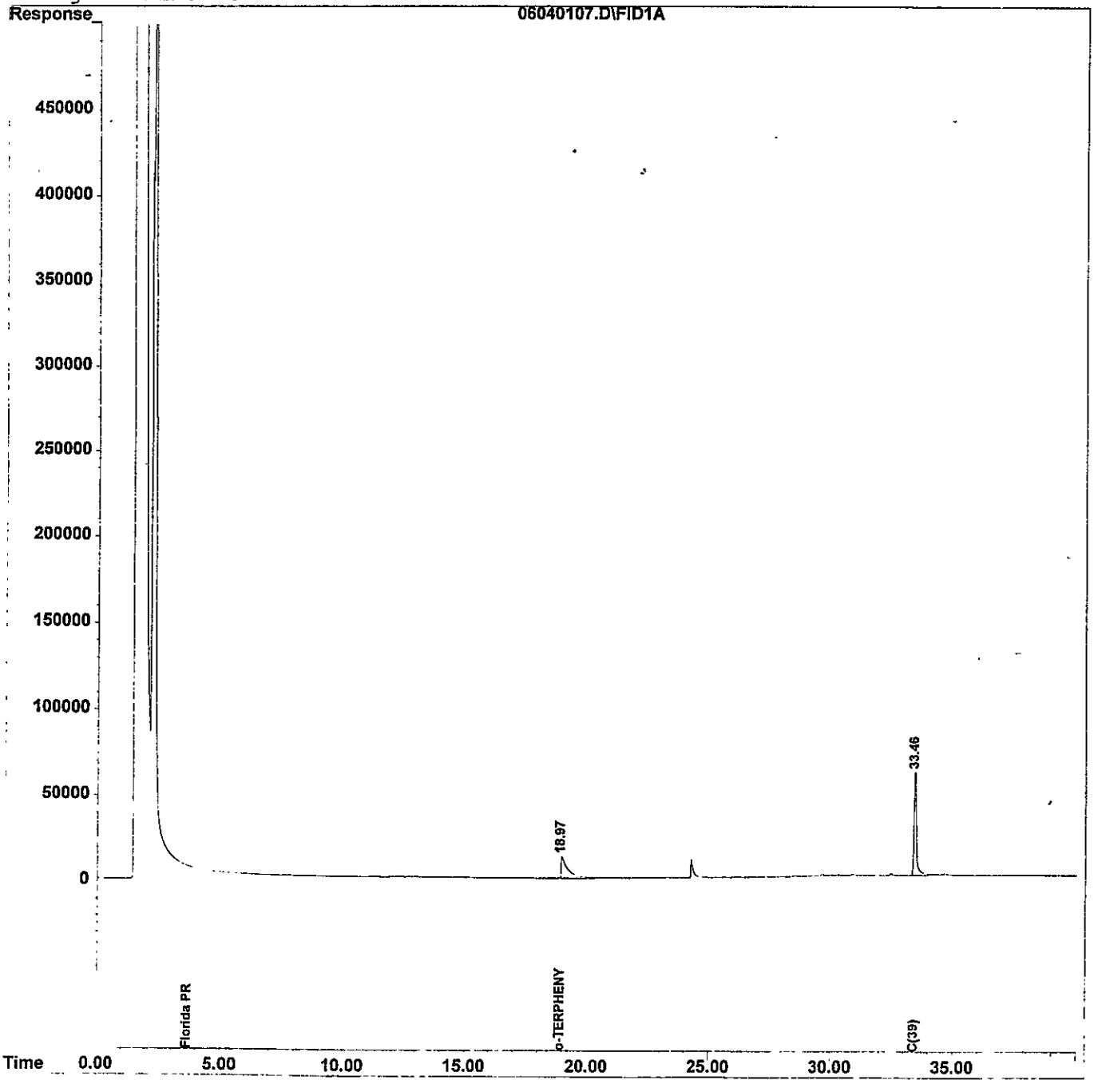
<LRL

(f)=RT Delta > 1/2 Window (m)=manual int.

Data File : C:\HPCHEM\2\DATA\060401\06040107.D Vial: 7
Acq On : 4 Jun 2001 14:49 Operator: BP
Sample : 14039 W Inst : DRO-B
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Jun 5 7:14 2001 Quant Results File: PRO0322.RES

Quant Method : C:\HPCHEM\2\METHODS\PRO0322.M (Chemstation Integrator)
Title : FLORIDA PRO BY GC; INST. #2
Last Update : Tue Jan 02 11:40:23 2001
Response via : Multiple Level Calibration
DataAcq Meth : PRO0322.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\060401\06040108.D Vial: 8
Acq On : 4 Jun 2001 15:37 Operator: BP
Sample : 14027 W Inst : DRO-B
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Jun 5 7:15 2001 Quant Results File: PRO0322.RES

Quant Method : C:\HPCHEM\2\METHODS\PRO0322.M (Chemstation Integrator)
Title : FLORIDA PRO BY GC; INST. #2
Last Update : Tue Jan 02 11:40:23 2001
Response via : Initial Calibration
DataAcq Meth : PRO0322.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) SC o-TERPHENYL	19.00f	933154	19.321 ug/mlm
Spiked Amount 50.000	Recovery = 38.64%		
3) SC C(39)	33.55	6389147	147.109 ug/mlm
Spiked Amount 300.000	Recovery = 49.04%		
Target Compounds			
1) HM Florida PRO	3.70	40763430	741.853 ug/ml

ZRL

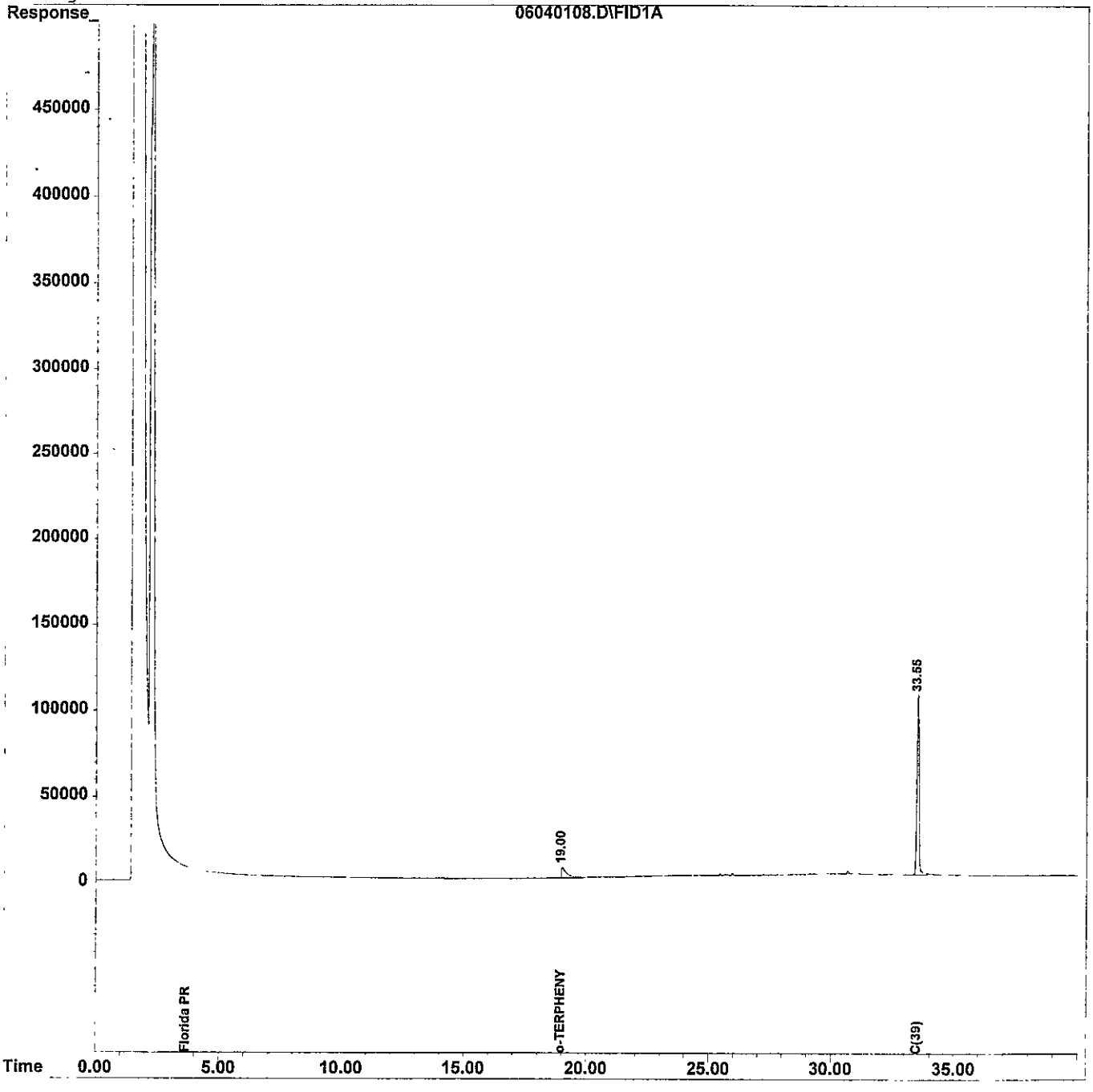
f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\2\DATA\060401\06040108.D Vial: 8
Acq On : 4 Jun 2001 15:37 Operator: BP
Sample : 14027 W Inst : DRO-B
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Jun 5 7:15 2001 Quant Results File: PRO0322.RES

Quant Method : C:\HPCHEM\2\METHODS\PRO0322.M (Chemstation Integrator)
Title : FLORIDA PRO BY GC; INST. #2
Last Update : Tue Jan 02 11:40:23 2001
Response via : Multiple Level Calibration
DataAcq Meth : PRO0322.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\060401\06040109.D Vial: 9
Acq On : 4 Jun 2001 16:26 Operator: BP
Sample : 14028 W Inst : DRO-B
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Jun 5 7:16 2001 Quant Results File: PRO0322.RES

Quant Method : C:\HPCHEM\2\METHODS\PRO0322.M (Chemstation Integrator)
Title : FLORIDA PRO BY GC; INST. #2
Last Update : Tue Jan 02 11:40:23 2001
Response via : Initial Calibration
DataAcq Meth : PRO0322.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) SC o-TERPHENYL	18.86f	1451604	30.055 ug/mlm
Spiked Amount 50.000	Recovery =		60.11%
3) SC C(39)	33.48f	3818168	87.913 ug/mlm
Spiked Amount 300.000	Recovery =		29.30%
Target Compounds			
1) HM Florida PRO	3.70	39624682	721.129 ug/ml

LPL

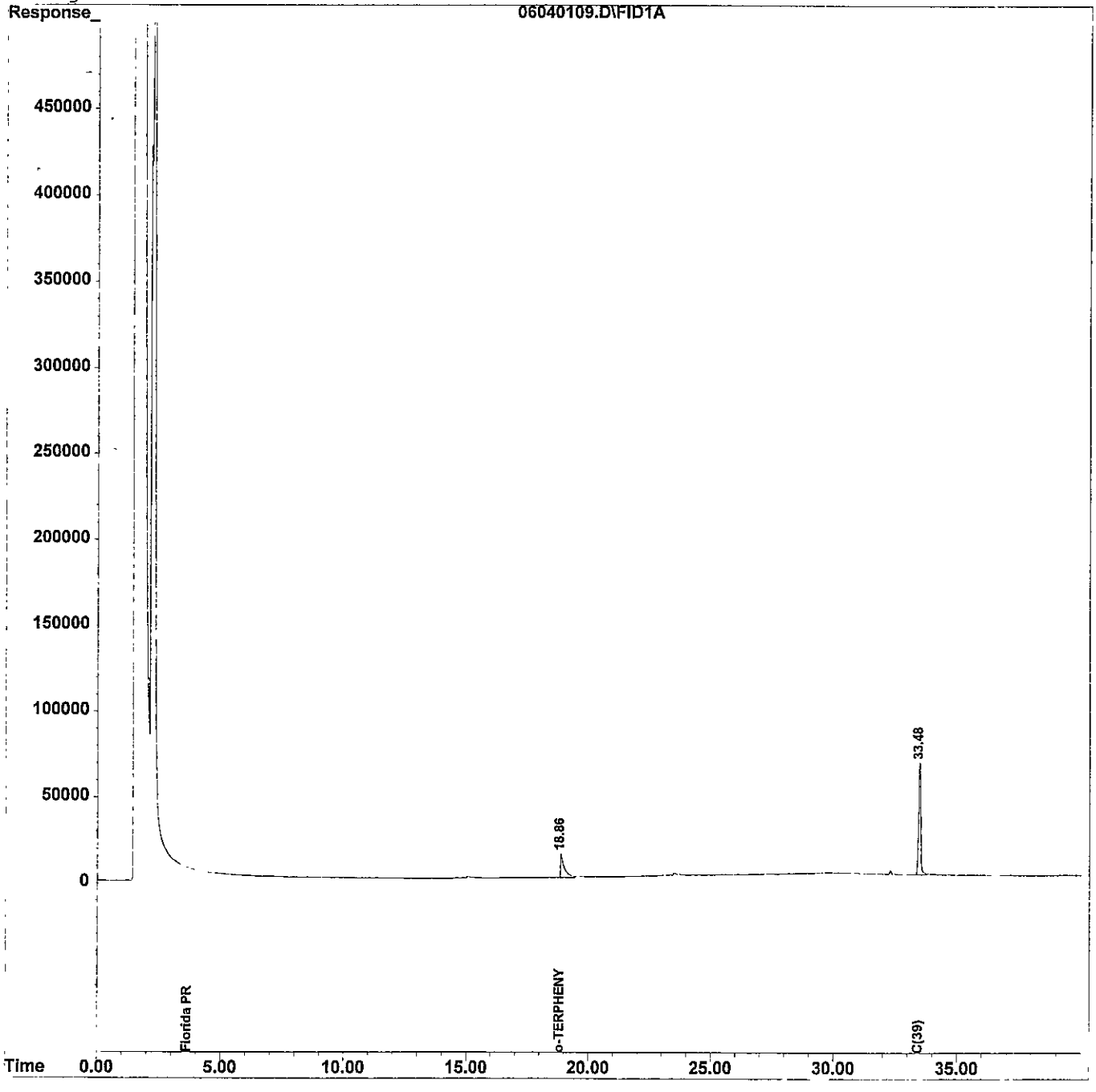
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\2\DATA\060401\06040109.D Vial: 9
Acq On : 4 Jun 2001 16:26 Operator: BP
Sample : 14028 W Inst : DRO-B
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Jun 5 7:16 2001 Quant Results File: PRO0322.RES

Quant Method : C:\HPCHEM\2\METHODS\PRO0322.M (Chemstation Integrator)
Title : FLORIDA PRO BY GC; INST. #2
Last Update : Tue Jan 02 11:40:23 2001
Response via : Multiple Level Calibration
DataAcq Meth : PRO0322.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\060401\06040110.D Vial: 10
Acq On : 4 Jun 2001 17:15 Operator: BP
Sample : 14029 W Inst : DRO-B
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Jun 5 7:17 2001 Quant Results File: PRO0322.RES

Quant Method : C:\HPCHEM\2\METHODS\PRO0322.M (Chemstation Integrator)
Title : FLORIDA PRO BY GC; INST. #2
Last Update : Tue Jan 02 11:40:23 2001
Response via : Initial Calibration
DataAcq Meth : PRO0322.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) SC o-TERPHENYL	18.88	1828399	37.857 ug/mlm
Spiked Amount 50.000	Recovery = 75.71%		
3) SC C(39)	33.37f	7207408	165.949 ug/mlm
Spiked Amount 300.000	Recovery = 55.32%		
Target Compounds			
1) HM Florida PRO	3.70	41785757	760.459 ug/ml

CAL

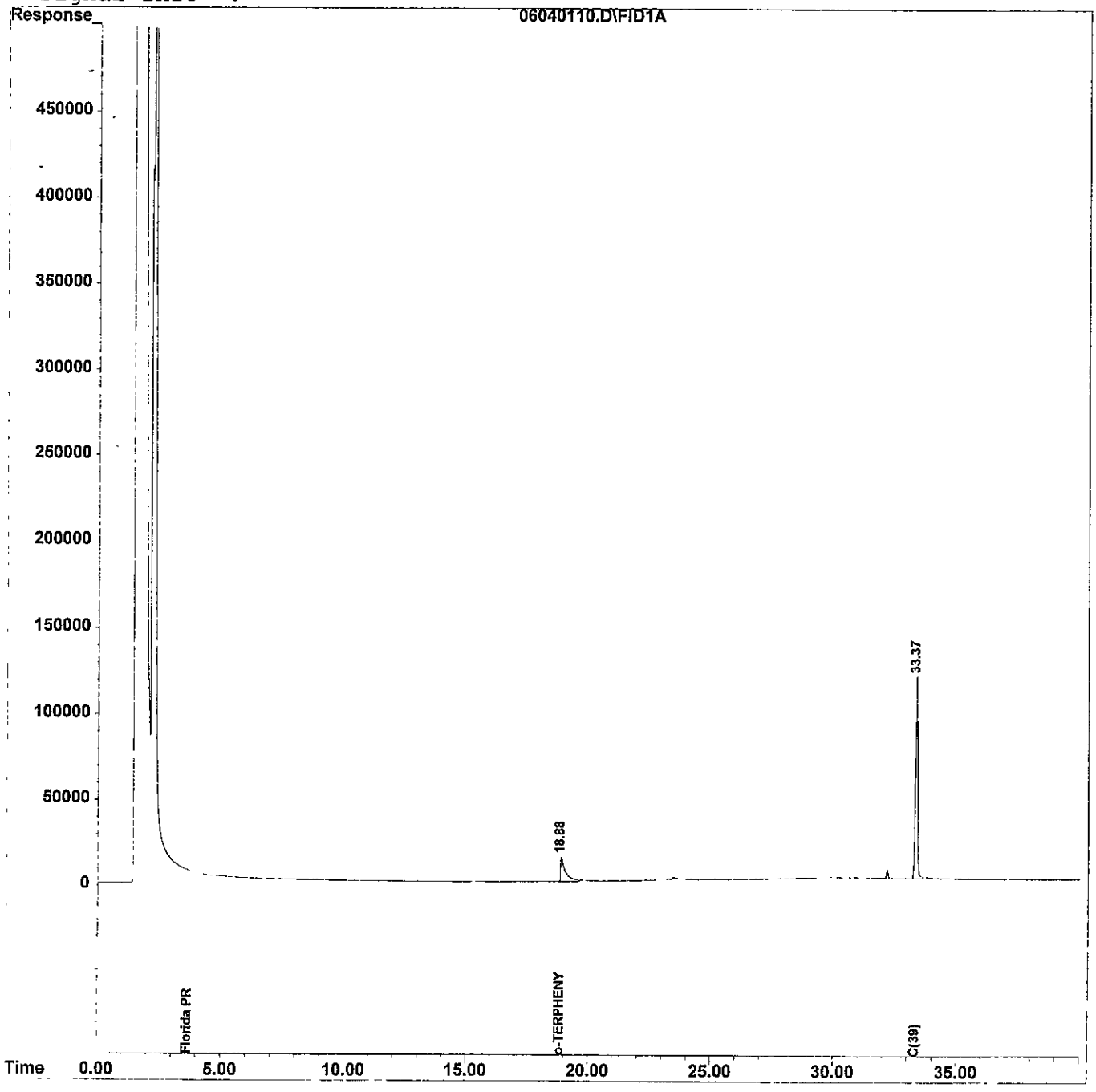
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\2\DATA\060401\06040110.D Vial: 10
Acq On : 4 Jun 2001 17:15 Operator: BP
Sample : 14029 W Inst : DRO-B
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Jun 5 7:17 2001 Quant Results File: PRO0322.RES

Quant Method : C:\HPCHEM\2\METHODS\PRO0322.M (Chemstation Integrator)
Title : FLORIDA PRO BY GC; INST. #2
Last Update : Tue Jan 02 11:40:23 2001
Response via : Multiple Level Calibration
DataAcq Meth : PRO0322.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\060401\06040111.D Vial: 11
Acq On : 4 Jun 2001 18:03 Operator: BP
Sample : 14030 W 5X Inst : DRO-B
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Jun 5 7:18 2001 Quant Results File: PRO0322.RES

Quant Method : C:\HPCHEM\2\METHODS\PRO0322.M (Chemstation Integrator)
Title : FLORIDA PRO BY GC; INST. #2
Last Update : Tue Jan 02 11:40:23 2001
Response via : Initial Calibration
DataAcq Meth : PRO0322.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) SC o-TERPHENYL	18.77f	482629	9.993 ug/mlm
Spiked Amount 50.000	Recovery =		19.99% x5 = 100%
3) SC C(39)	33.31f	2291650	52.765 ug/mlm
Spiked Amount 300.000	Recovery =		17.59% x5 = 88
Target Compounds			
1) HM Florida PRO	3.70	55189718	1004.397 ug/ml x5 / 1000 = 5.0

RDL = 5.0

File only

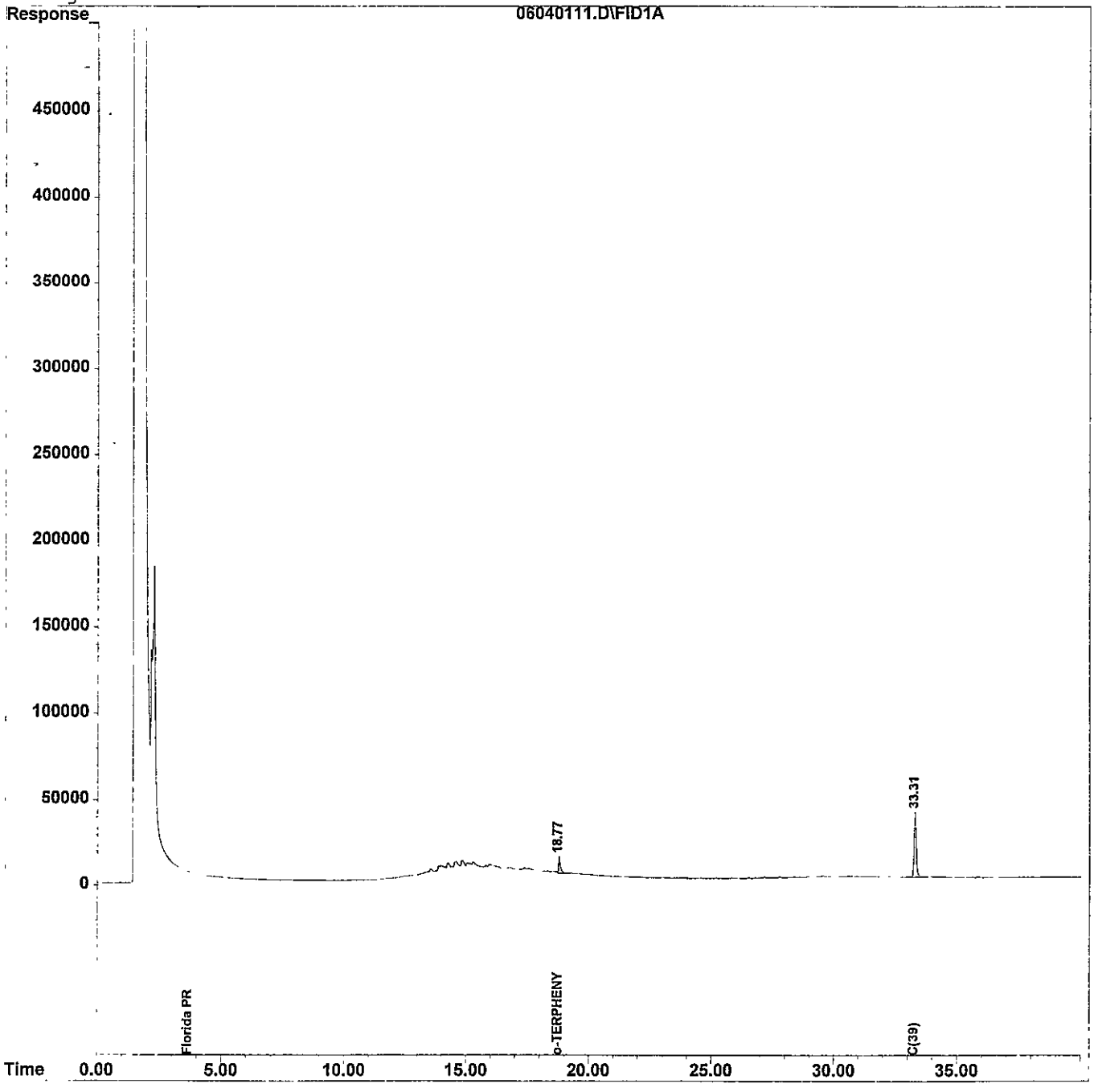
f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\2\DATA\060401\06040111.D Vial: 11
Acq On : 4 Jun 2001 18:03 Operator: BP
Sample : 14030 W 5X Inst : DRO-B
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Jun 5 7:18 2001 Quant Results File: PRO0322.RES

Quant Method : C:\HPCHEM\2\METHODS\PRO0322.M (Chemstation Integrator)
Title : FLORIDA PRO BY GC; INST. #2
Last Update : Tue Jan 02 11:40:23 2001
Response via : Multiple Level Calibration
DataAcq Meth : PRO0322.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\060401\06040126.D Vial: 26
Acq On : 5 Jun 2001 6:09 Operator: BP
Sample : 14030 W Inst : DRO-B
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Jun 5 7:12 2001 Quant Results File: PRO0322.RES

Quant Method : C:\HPCHEM\2\METHODS\PRO0322.M (Chemstation Integrator)
Title : FLORIDA PRO BY GC; INST. #2
Last Update : Tue Jan 02 11:40:23 2001
Response via : Initial Calibration
DataAcq Meth : PRO0322.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) SC o-TERPHENYL	18.73f	2093923	43.354 ug/mlm
Spiked Amount 50.000	Recovery =		86.71%
3) SC C(39)	33.57	11177182	257.353 ug/mlm
Spiked Amount 300.000	Recovery =		85.78%
Target Compounds			
1) HM Florida PRO	3.70	251873632	4583.846 ug/ml

4583.846 / 1000 = 4.6

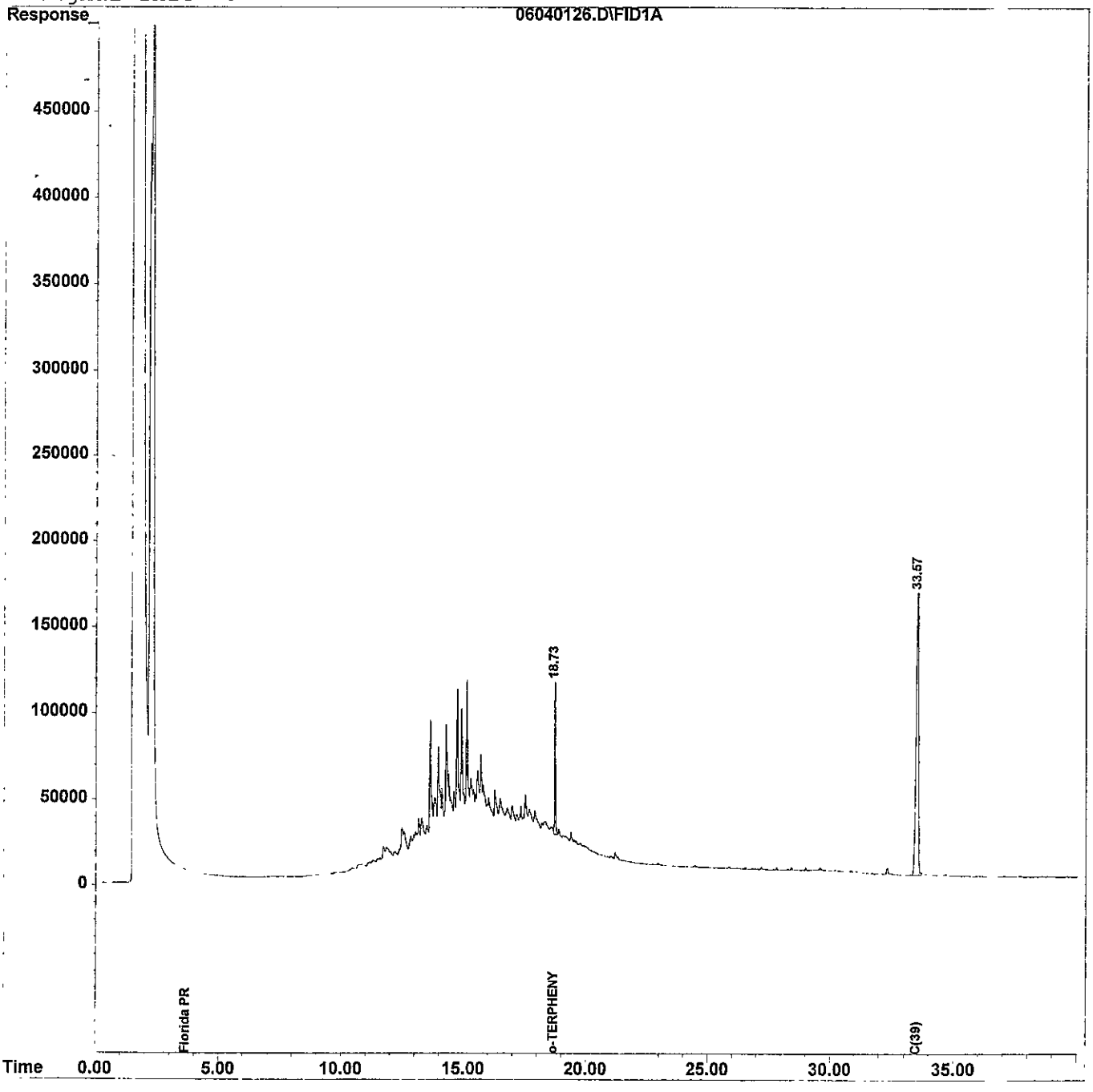
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\2\DATA\060401\06040126.D Vial: 26
Acq On : 5 Jun 2001 6:09 Operator: BP
Sample : 14030 W Inst : DRO-B
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Jun 5 7:12 2001 Quant Results File: PRO0322.RES

Quant Method : C:\HPCHEM\2\METHODS\PRO0322.M (Chemstation Integrator)
Title : FLORIDA PRO BY GC; INST. #2
Last Update : Tue Jan 02 11:40:23 2001
Response via : Multiple Level Calibration
DataAcq Meth : PRO0322.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\060401\06040112.D Vial: 12
Acq On : 4 Jun 2001 18:52 Operator: BP
Sample : 14031 W Inst : DRO-B
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Jun 5 7:19 2001 Quant Results File: PRO0322.RES

Quant Method : C:\HPCHEM\2\METHODS\PRO0322.M (Chemstation Integrator)
Title : FLORIDA PRO BY GC; INST. #2
Last Update : Tue Jan 02 11:40:23 2001
Response via : Initial Calibration
DataAcq Meth : PRO0322.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) SC o-TERPHENYL	18.73f	1878977	38.904 ug/mlm
Spiked Amount 50.000	Recovery =		77.81%
3) SC C(39)	33.42f	4540189	104.537 ug/mlm
Spiked Amount 300.000	Recovery =		34.85%
Target Compounds			
1) HM Florida PRO	3.70	57554314	1047.430 ug/ml

1047.430 / 1000 = 1.0

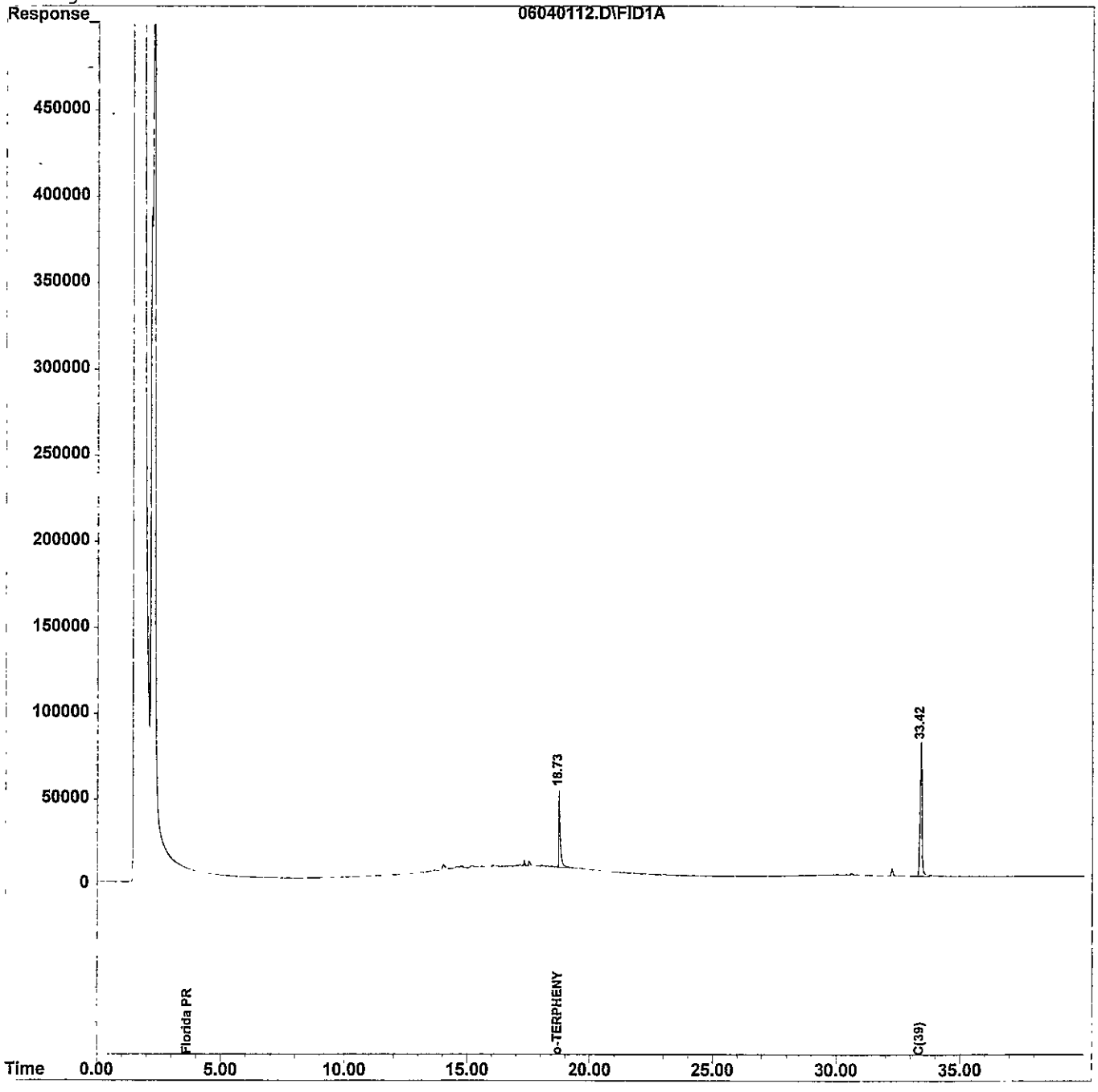
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\2\DATA\060401\06040112.D Vial: 12
Acq On : 4 Jun 2001 18:52 Operator: BP
Sample : 14031 W Inst : DRO-B
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Jun 5 7:19 2001 Quant Results File: PRO0322.RES

Quant Method : C:\HPCHEM\2\METHODS\PRO0322.M (Chemstation Integrator)
Title : FLORIDA PRO BY GC; INST. #2
Last Update : Tue Jan 02 11:40:23 2001
Response via : Multiple Level Calibration
DataAcq Meth : PRO0322.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\060401\06040115.D Vial: 15
Acq On : 4 Jun 2001 21:17 Operator: BP
Sample : 14032 W Inst : DRO-B
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Jun 5 7:20 2001 Quant Results File: PRO0322.RES

Quant Method : C:\HPCHEM\2\METHODS\PRO0322.M (Chemstation Integrator)
Title : FLORIDA PRO BY GC; INST. #2
Last Update : Tue Jan 02 11:40:23 2001
Response via : Initial Calibration
DataAcq Meth : PRO0322.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) SC o-TERPHENYL	18.84f	2255605	46.702 ug/mlm
Spiked Amount 50.000	Recovery = 93.40%		
3) SC C(39)	33.63	6091072	140.246 ug/mlm
Spiked Amount 300.000	Recovery = 46.75%		
Target Compounds			
1) HM Florida PRO	3.70	19483986	354.589 ug/ml

ALL

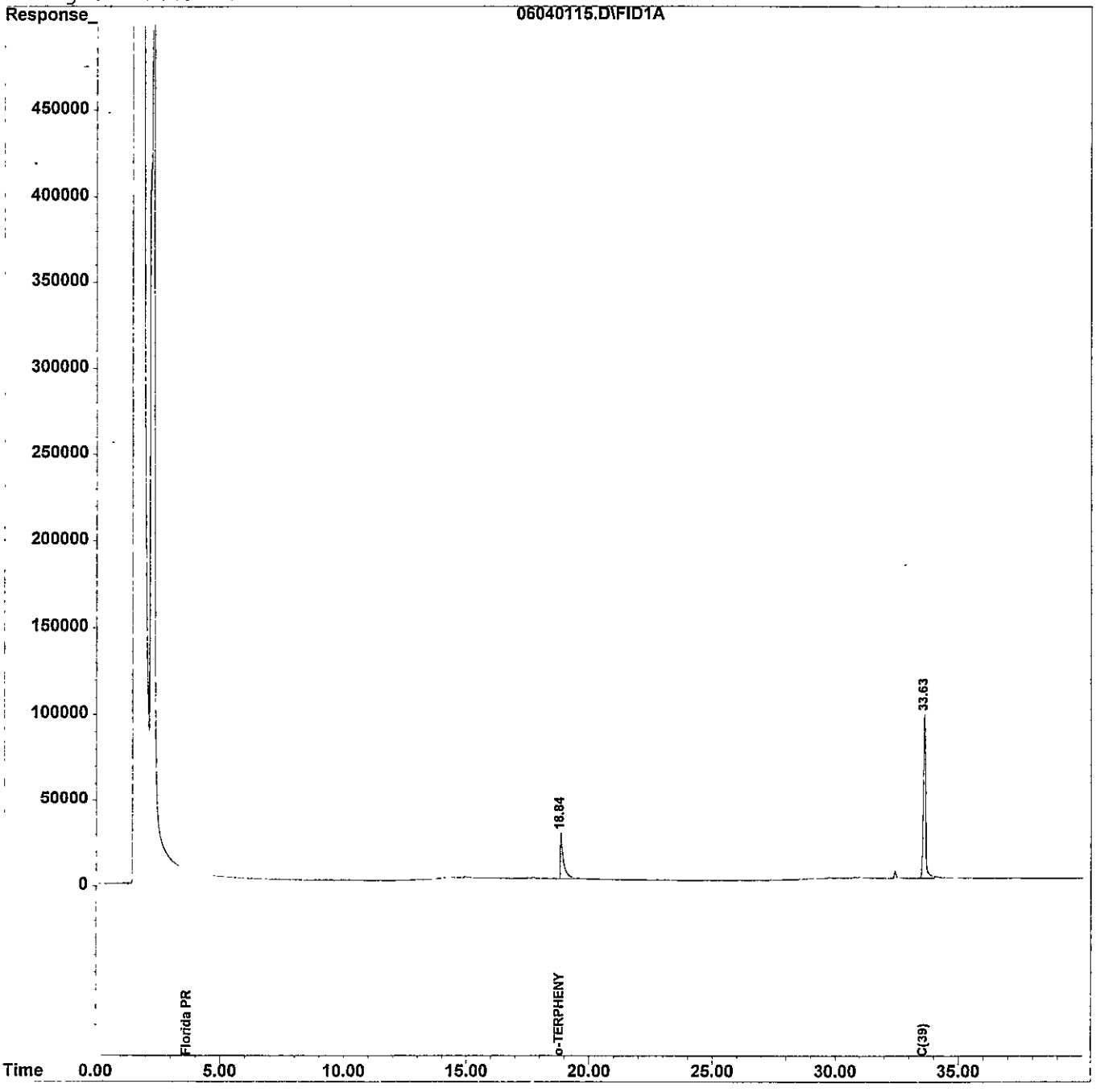
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\2\DATA\060401\06040115.D Vial: 15
Acq On : 4 Jun 2001 21:17 Operator: BP
Sample : 14032 W Inst : DRO-B
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Jun 5 7:20 2001 Quant Results File: PRO0322.RES

Quant Method : C:\HPCHEM\2\METHODS\PRO0322.M (Chemstation Integrator)
Title : FLORIDA PRO BY GC; INST. #2
Last Update : Tue Jan 02 11:40:23 2001
Response via : Multiple Level Calibration
DataAcq Meth : PRO0322.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\060401\06040116.D Vial: 16
Acq On : 4 Jun 2001 22:05 Operator: BP
Sample : 14033 W Inst : DRO-B
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Jun 5 7:22 2001 Quant Results File: PRO0322.RES

Quant Method : C:\HPCHEM\2\METHODS\PRO0322.M (Chemstation Integrator)
Title : FLORIDA PRO BY GC; INST. #2
Last Update : Tue Jan 02 11:40:23 2001
Response via : Initial Calibration
DataAcq Meth : PRO0322.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) SC o-TERPHENYL	18.92	1456648	30.160 ug/mlm
Spiked Amount 50.000	Recovery = 60.32%		
3) SC C(39)	33.51f	7020520	161.646 ug/mlm
Spiked Amount 300.000	Recovery = 53.88%		
Target Compounds			
1) HM Florida PRO	3.70	53858883	980.177 ug/ml

CRL

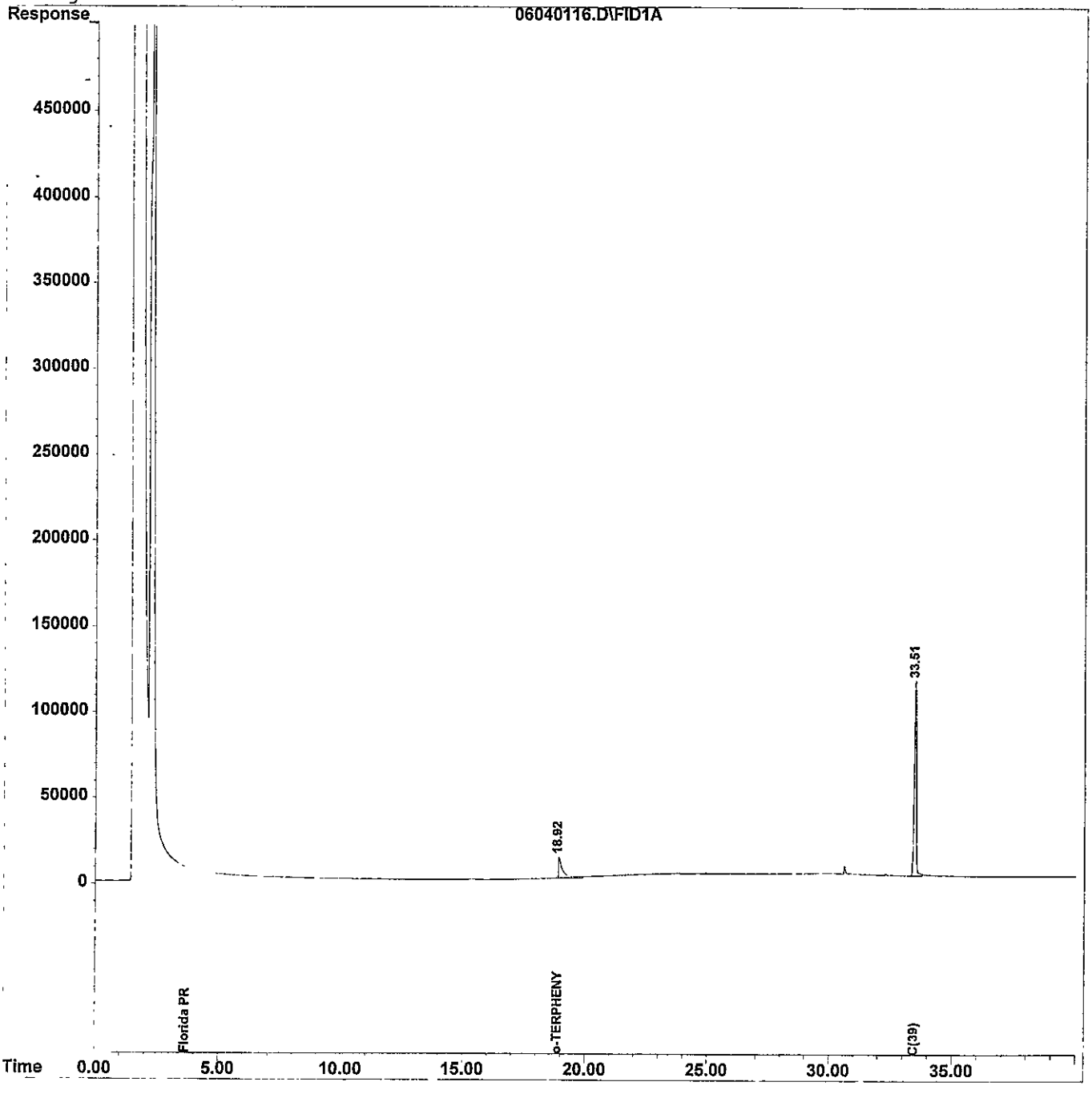
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\2\DATA\060401\06040116.D Vial: 16
Acq On : 4 Jun 2001 22:05 Operator: BP
Sample : 14033 W Inst : DRO-B
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Jun 5 7:22 2001 Quant Results File: PRO0322.RES

Quant Method : C:\HPCHEM\2\METHODS\PRO0322.M (Chemstation Integrator)
Title : FLORIDA PRO BY GC; INST. #2
Last Update : Tue Jan 02 11:40:23 2001
Response via : Multiple Level Calibration
DataAcq Meth : PRO0322.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\060401\06040117.D Vial: 17
Acq On : 4 Jun 2001 22:54 Operator: BP
Sample : 14034 W Inst : DRO-B
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Jun 5 7:29 2001 Quant Results File: PRO0322.RES

Quant Method : C:\HPCHEM\2\METHODS\PRO0322.M (Chemstation Integrator)
Title : FLORIDA PRO BY GC; INST. #2
Last Update : Tue Jan 02 11:40:23 2001
Response via : Initial Calibration
DataAcq Meth : PRO0322.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) SC o-TERPHENYL	19.07f	249645	5.169 ug/mlm
Spiked Amount 50.000	Recovery = 10.34%		
3) SC C(39)	33.56	5808056	133.730 ug/mlm
Spiked Amount 300.000	Recovery = 44.58%		
Target Compounds			
1) HM Florida PRO	3.70	40032612	728.553 ug/ml

CRL

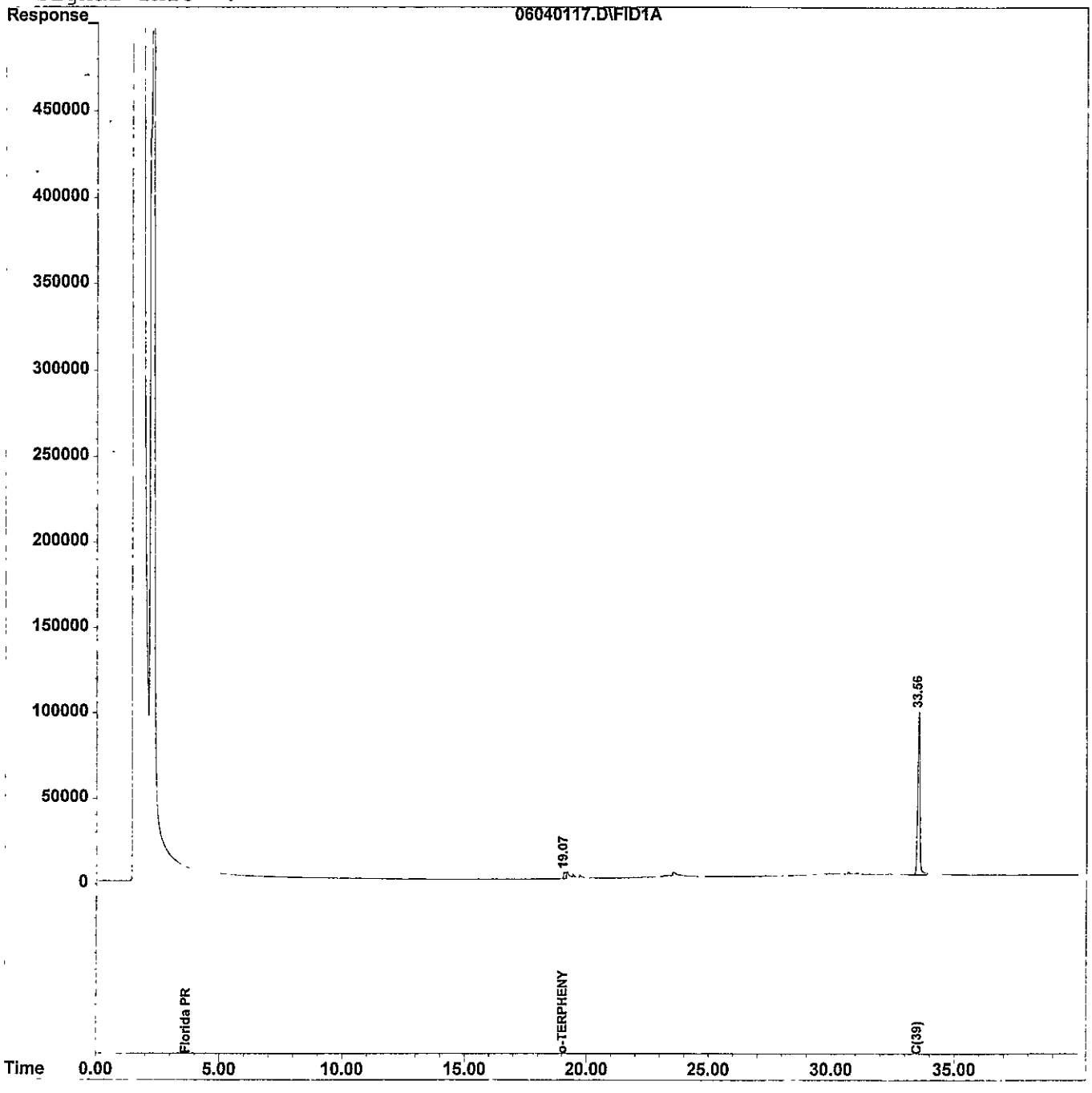
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\2\DATA\060401\06040117.D Vial: 17
Acq On : 4 Jun 2001 22:54 Operator: BP
Sample : 14034 W Inst : DRO-B
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Jun 5 7:29 2001 Quant Results File: PRO0322.RES

Quant Method : C:\HPCHEM\2\METHODS\PRO0322.M (Chemstation Integrator)
Title : FLORIDA PRO BY GC; INST. #2
Last Update : Tue Jan 02 11:40:23 2001
Response via : Multiple Level Calibration
DataAcq Meth : PRO0322.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\060401\06040118.D Vial: 18
Acq On : 4 Jun 2001 23:42 Operator: BP
Sample : 14035 W Inst : DRO-B
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Jun 5 7:30 2001 Quant Results File: PRO0322.RES

Quant Method : C:\HPCHEM\2\METHODS\PRO0322.M (Chemstation Integrator)
Title : FLORIDA PRO BY GC; INST. #2
Last Update : Tue Jan 02 11:40:23 2001
Response via : Initial Calibration
DataAcq Meth : PRO0322.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) SC o-TERPHENYL	18.87f	874509	18.107 ug/mlm
Spiked Amount 50.000	Recovery = 36.21%		
3) SC C(39)	33.58	6382989	146.967 ug/mlm
Spiked Amount 300.000	Recovery = 48.99%		
Target Compounds			
1) HM Florida PRO	3.70	55615877	1012.153 ug/ml

1.0
1000

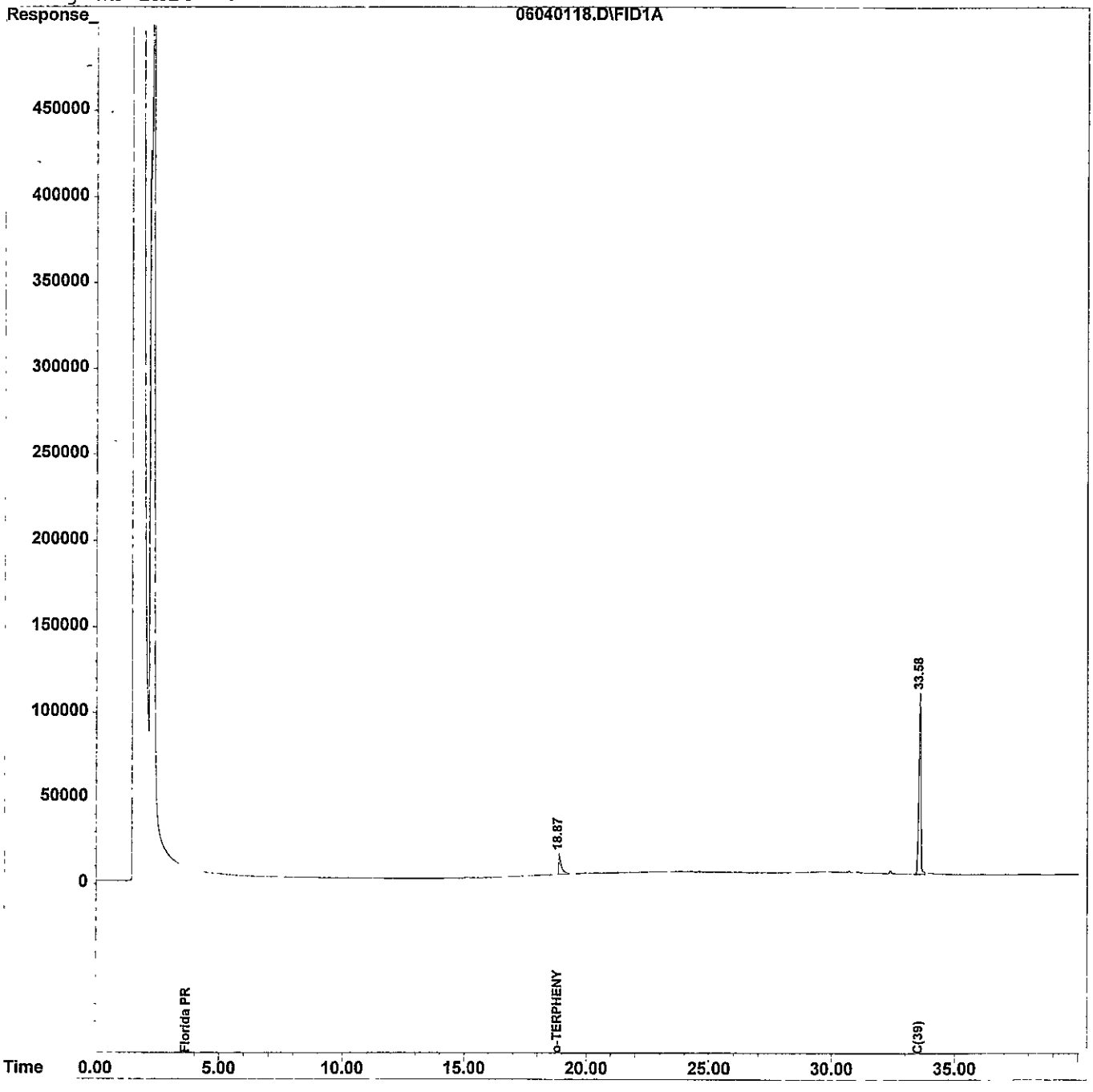
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\2\DATA\060401\06040118.D Vial: 18
Acq On : 4 Jun 2001 23:42 Operator: BP
Sample : 14035 W Inst : DRO-B
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Jun 5 7:30 2001 Quant Results File: PRO0322.RES

Quant Method : C:\HPCHEM\2\METHODS\PRO0322.M (Chemstation Integrator)
Title : FLORIDA PRO BY GC; INST. #2
Last Update : Tue Jan 02 11:40:23 2001
Response via : Multiple Level Calibration
DataAcq Meth : PRO0322.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\060401\06040119.D Vial: 19
Acq On : 5 Jun 2001 00:31 Operator: BP
Sample : 14036 W Inst : DRO-B
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Jun 5 7:31 2001 Quant Results File: PRO0322.RES

Quant Method : C:\HPCHEM\2\METHODS\PRO0322.M (Chemstation Integrator)
Title : FLORIDA PRO BY GC; INST. #2
Last Update : Tue Jan 02 11:40:23 2001
Response via : Initial Calibration
DataAcq Meth : PRO0322.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) SC o-TERPHENYL	19.01f	1665885	34.492 ug/mlm
Spiked Amount 50.000	Recovery =	68.98%	
3) SC C(39)	33.49f	5448037	125.440 ug/mlm
Spiked Amount 300.000	Recovery =	41.81%	
Target Compounds			
1) HM Florida PRO	3.70	37370979	680.114 ug/ml

< RL

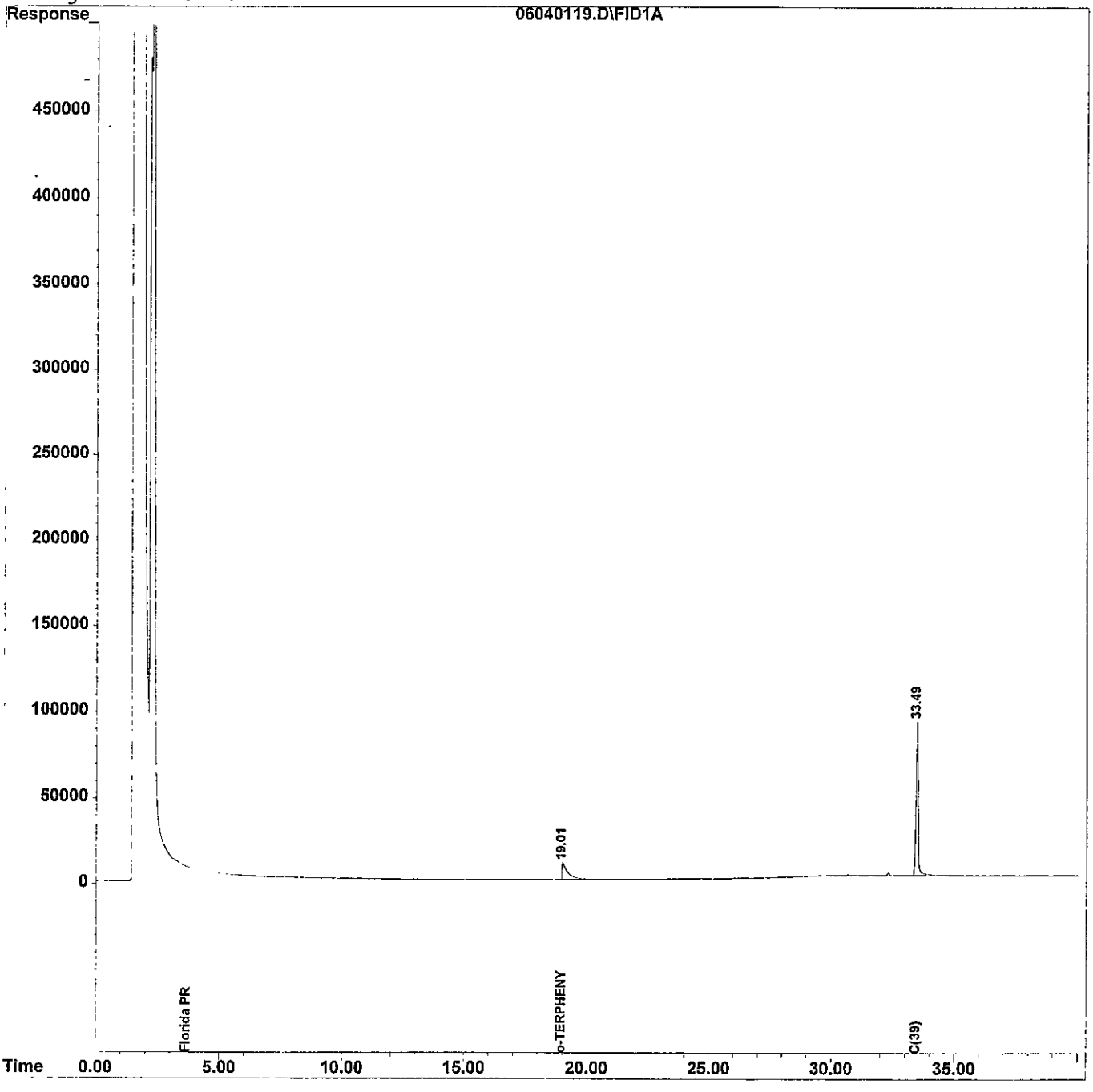
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\2\DATA\060401\06040119.D Vial: 19
Acq On : 5 Jun 2001 00:31 Operator: BP
Sample : 14036 W Inst : DRO-B
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Jun 5 7:31 2001 Quant Results File: PRO0322.RES

Quant Method : C:\HPCHEM\2\METHODS\PRO0322.M (Chemstation Integrator)
Title : FLORIDA PRO BY GC; INST. #2
Last Update : Tue Jan 02 11:40:23 2001
Response via : Multiple Level Calibration
DataAcq Meth : PRO0322.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\060401\06040127.D Vial: 27
Acq On : 5 Jun 2001 6:57 Operator: BP
Sample : 14037 W Inst : DRO-B
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Jun 5 7:44 2001 Quant Results File: PRO0322.RES

Quant Method : C:\HPCHEM\2\METHODS\PRO0322.M (Chemstation Integrator)
Title : FLORIDA PRO BY GC; INST. #2
Last Update : Tue Jan 02 11:40:23 2001
Response via : Initial Calibration
DataAcq Meth : PRO0322.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) SC o-TERPHENYL	18.72f	2319092	48.017 ug/mlm
Spiked Amount 50.000	Recovery =		96.03%
3) SC C(39)	33.54	5873737	135.242 ug/mlm
Spiked Amount 300.000	Recovery =		45.08%
Target Compounds			
1) HM Florida PRO	3.70	353107510	6426.201 ug/ml

$\frac{6426.201}{1000} = 6.4$

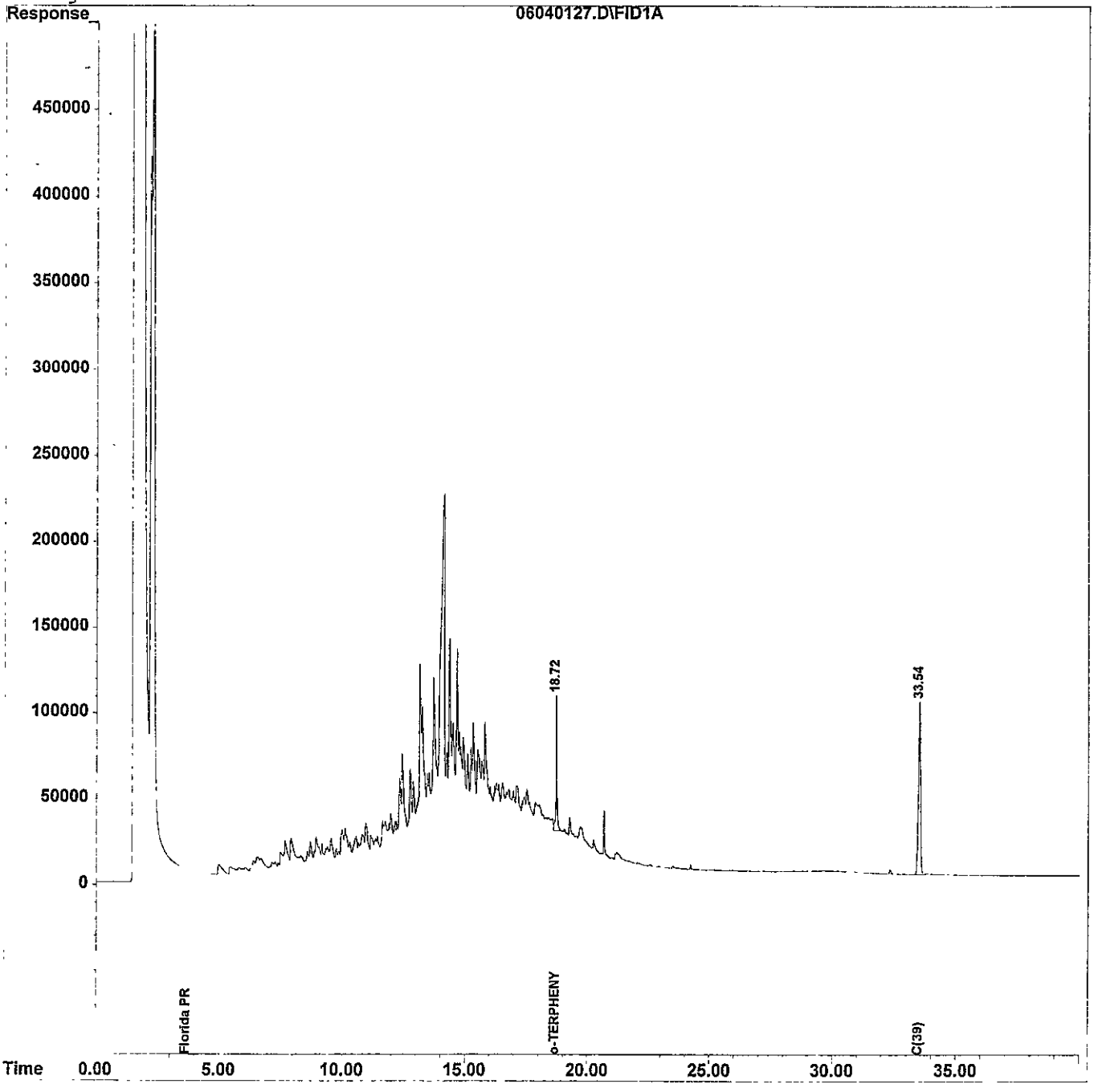
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\2\DATA\060401\06040127.D Vial: 27
Acq On : 5 Jun 2001 6:57 Operator: BP
Sample : 14037 W Inst : DRO-B
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Jun 5 7:44 2001 Quant Results File: PRO0322.RES

Quant Method : C:\HPCHEM\2\METHODS\PRO0322.M (Chemstation Integrator)
Title : FLORIDA PRO BY GC; INST. #2
Last Update : Tue Jan 02 11:40:23 2001
Response via : Multiple Level Calibration
DataAcq Meth : PRO0322.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\060401\06040120.D Vial: 20
Acq On : 5 Jun 2001 1:19 Operator: BP
Sample : 14037 W 5X Inst : DRO-B
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Jun 5 7:10 2001 Quant Results File: PRO0322.RES

Quant Method : C:\HPCHEM\2\METHODS\PRO0322.M (Chemstation Integrator)
Title : FLORIDA PRO BY GC; INST. #2
Last Update : Tue Jan 02 11:40:23 2001
Response via : Initial Calibration
DataAcq Meth : PRO0322.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) SC o-TERPHENYL	18.79f	328821	6.808 ug/mlm
Spiked Amount 50.000	Recovery =		13.62% xs = 68%
3) SC C(39)	33.42f	545438	12.559 ug/mlm
Spiked Amount 300.000	Recovery =		4.19% xs = 21%
Target Compounds			
1) HM Florida PRO	3.70	62594292	1139.153 ug/ml xs / 1000 = 5.7

RDL = 5.0

File only

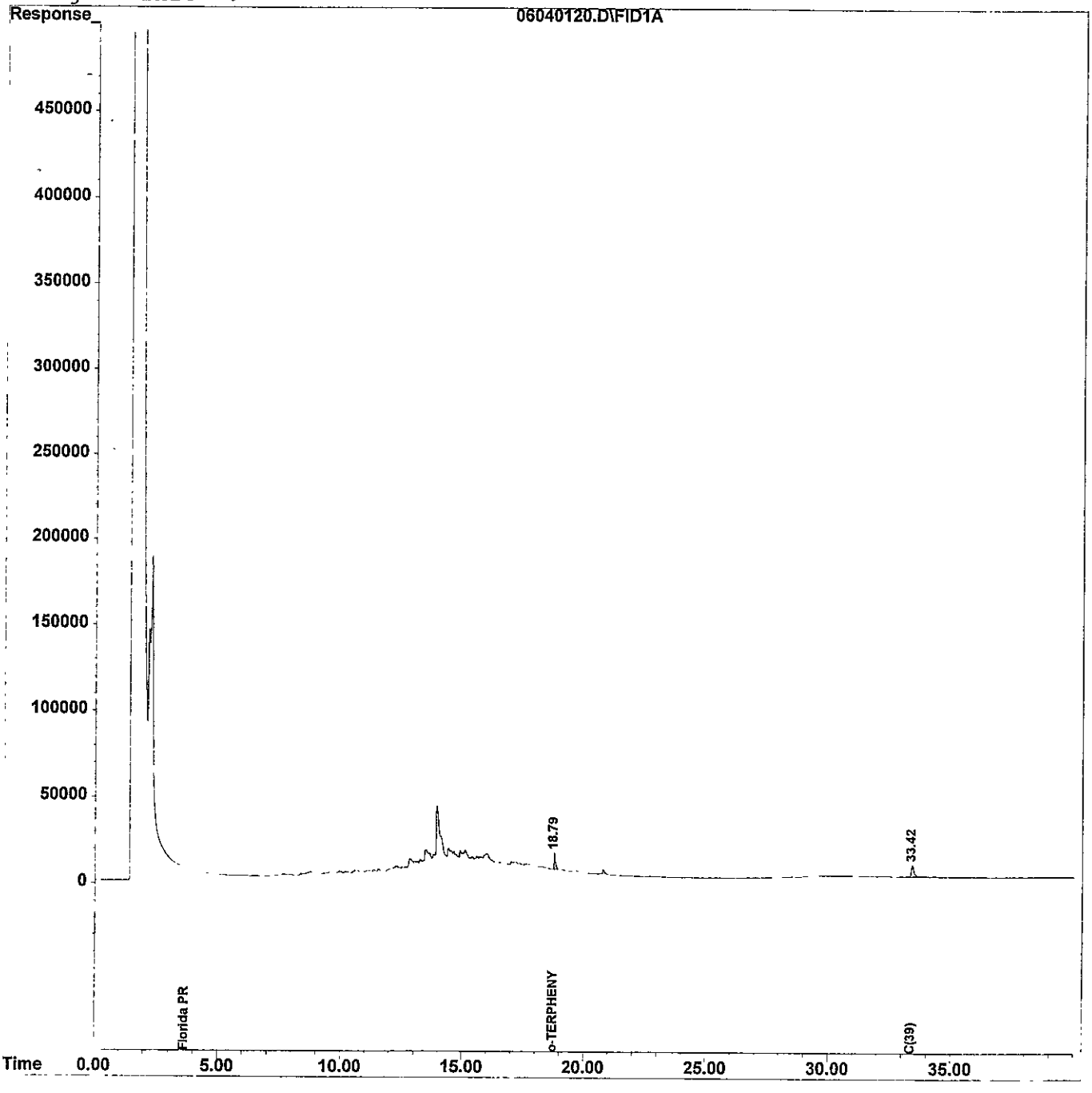
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\2\DATA\060401\06040120.D Vial: 20
Acq On : 5 Jun 2001 1:19 Operator: BP
Sample : 14037 W 5X Inst : DRO-B
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Jun 5 7:10 2001 Quant Results File: PRO0322.RES

Quant Method : C:\HPCHEM\2\METHODS\PRO0322.M (Chemstation Integrator)
Title : FLORIDA PRO BY GC; INST. #2
Last Update : Tue Jan 02 11:40:23 2001
Response via : Multiple Level Calibration
DataAcq Meth : PRO0322.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\060401\06040121.D Vial: 21
Acq On : 5 Jun 2001 2:07 Operator: BP
Sample : 14038 W Inst : DRO-B
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Jun 5 7:33 2001 Quant Results File: PRO0322.RES

Quant Method : C:\HPCHEM\2\METHODS\PRO0322.M (Chemstation Integrator)
Title : FLORIDA PRO BY GC; INST. #2
Last Update : Tue Jan 02 11:40:23 2001
Response via : Initial Calibration
DataAcq Meth : PRO0322.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc	Units
System Monitoring Compounds				
2) SC o-TERPHENYL	18.76f	1971991	40.830	ug/mlm
Spiked Amount 50.000	Recovery =		81.66%	
3) SC C(39)	33.40f	7826994	180.215	ug/mlm
Spiked Amount 300.000	Recovery =		60.07%	
Target Compounds				
1) HM Florida PRO	3.70	62701771	1141.109	ug/ml

$\frac{1141.109}{1000} = 1.1$

RDL = 1.0

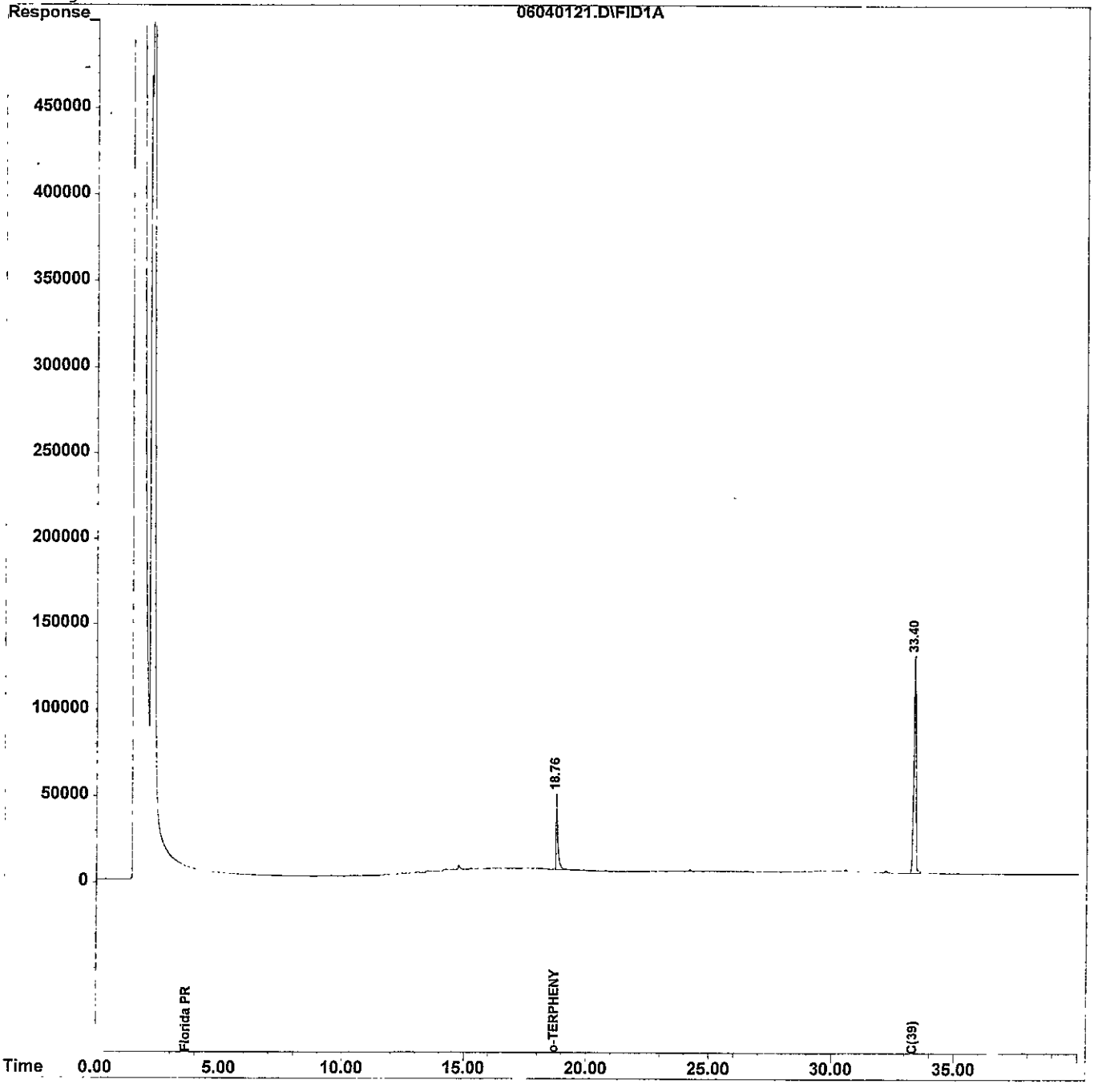
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\2\DATA\060401\06040121.D Vial: 21
Acq On : 5 Jun 2001 2:07 Operator: BP
Sample : 14038 W Inst : DRO-B
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Jun 5 7:33 2001 Quant Results File: PRO0322.RES

Quant Method : C:\HPCHEM\2\METHODS\PRO0322.M (Chemstation Integrator)
Title : FLORIDA PRO BY GC; INST. #2
Last Update : Tue Jan 02 11:40:23 2001
Response via : Multiple Level Calibration
DataAcq Meth : PRO0322.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\060401\06040122.D Vial: 22
Acq On : 5 Jun 2001 2:56 Operator: BP
Sample : 14040 W 10X MATRIX Inst : DRO-B
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Jun 5 7:34 2001 Quant Results File: PRO0322.RES

Quant Method : C:\HPCHEM\2\METHODS\PRO0322.M (Chemstation Integrator)
Title : FLORIDA PRO BY GC; INST. #2
Last Update : Tue Jan 02 11:40:23 2001
Response via : Initial Calibration
DataAcq Meth : PRO0322.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) SC o-TERPHENYL	19.47f	141737	2.935 ug/mlm
Spiked Amount 50.000	Recovery =		5.87% x10 ~ 59%
3) SC C(39)	33.56	132688	3.055 ug/mlm
Spiked Amount 300.000	Recovery =		1.02% x10 ~ 10%
Target Compounds			
1) HM Florida PRO	3.70	25622171	466.298 ug/ml

<2RL

RL = 10

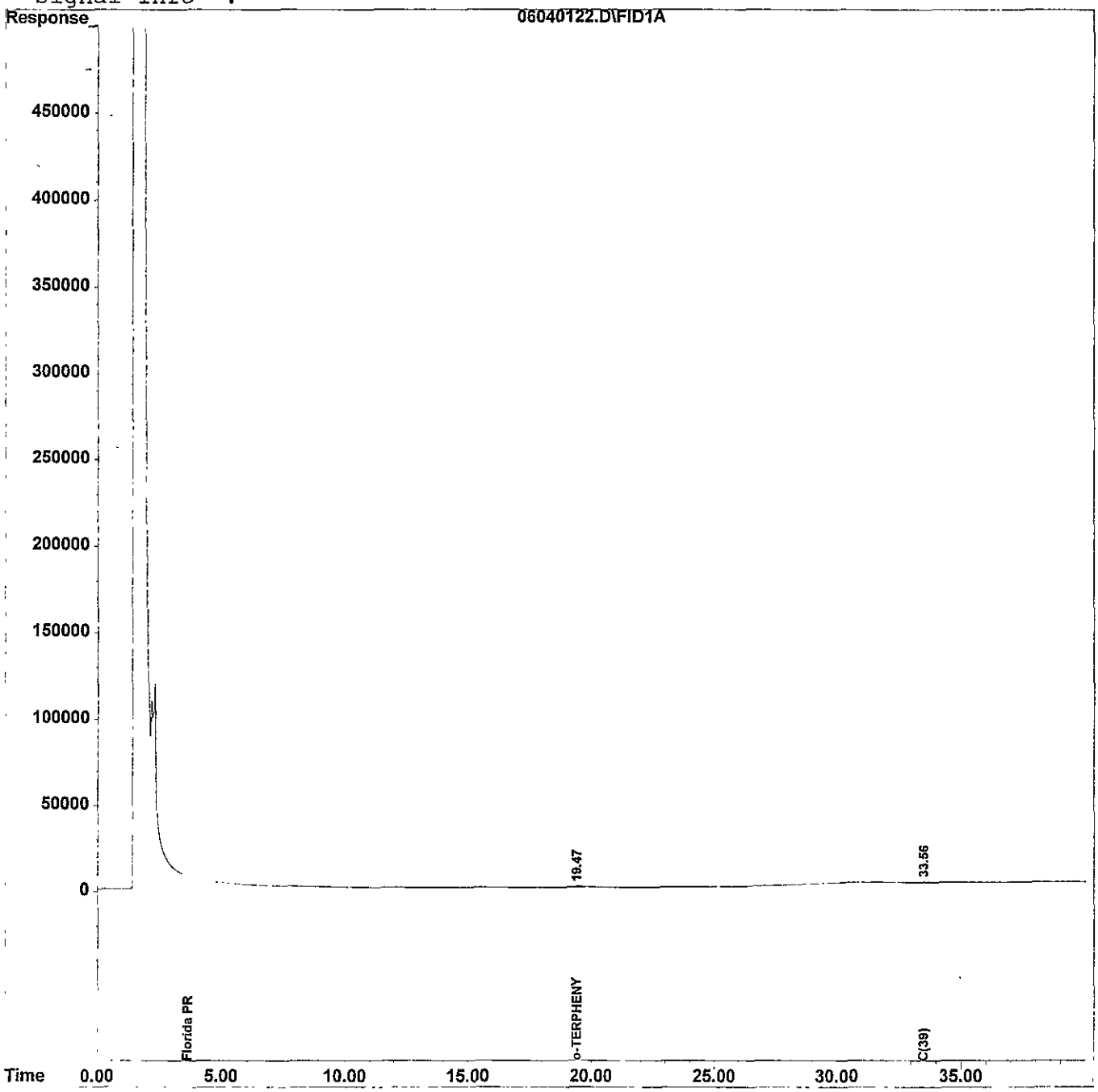
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\2\DATA\060401\06040122.D Vial: 22
Acq On : 5 Jun 2001 2:56 Operator: BP
Sample : 14040 W 10X MATRIX Inst : DRO-B
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Jun 5 7:34 2001 Quant Results File: PRO0322.RES

Quant Method : C:\HPCHEM\2\METHODS\PRO0322.M (Chemstation Integrator)
Title : FLORIDA PRO BY GC; INST. #2
Last Update : Tue Jan 02 11:40:23 2001
Response via : Multiple Level Calibration
DataAcq Meth : PRO0322.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\060401\06040123.D Vial: 23
Acq On : 5 Jun 2001 3:44 Operator: BP
Sample : 14041 W Inst : DRO-B
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Jun 5 7:36 2001 Quant Results File: PRO0322.RES

Quant Method : C:\HPCHEM\2\METHODS\PRO0322.M (Chemstation Integrator)
Title : FLORIDA PRO BY GC; INST. #2
Last Update : Tue Jan 02 11:40:23 2001
Response via : Initial Calibration
DataAcq Meth : PRO0322.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) SC o-TERPHENYL	19.05f	2040277	42.244 ug/mlm
Spiked Amount 50.000	Recovery =		84.49%
3) SC C(39)	33.44f	3100106	71.379 ug/mlm
Spiked Amount 300.000	Recovery =		23.79%
Target Compounds			
1) HM Florida PRO	3.70	32048169	583.244 ug/ml

ARL

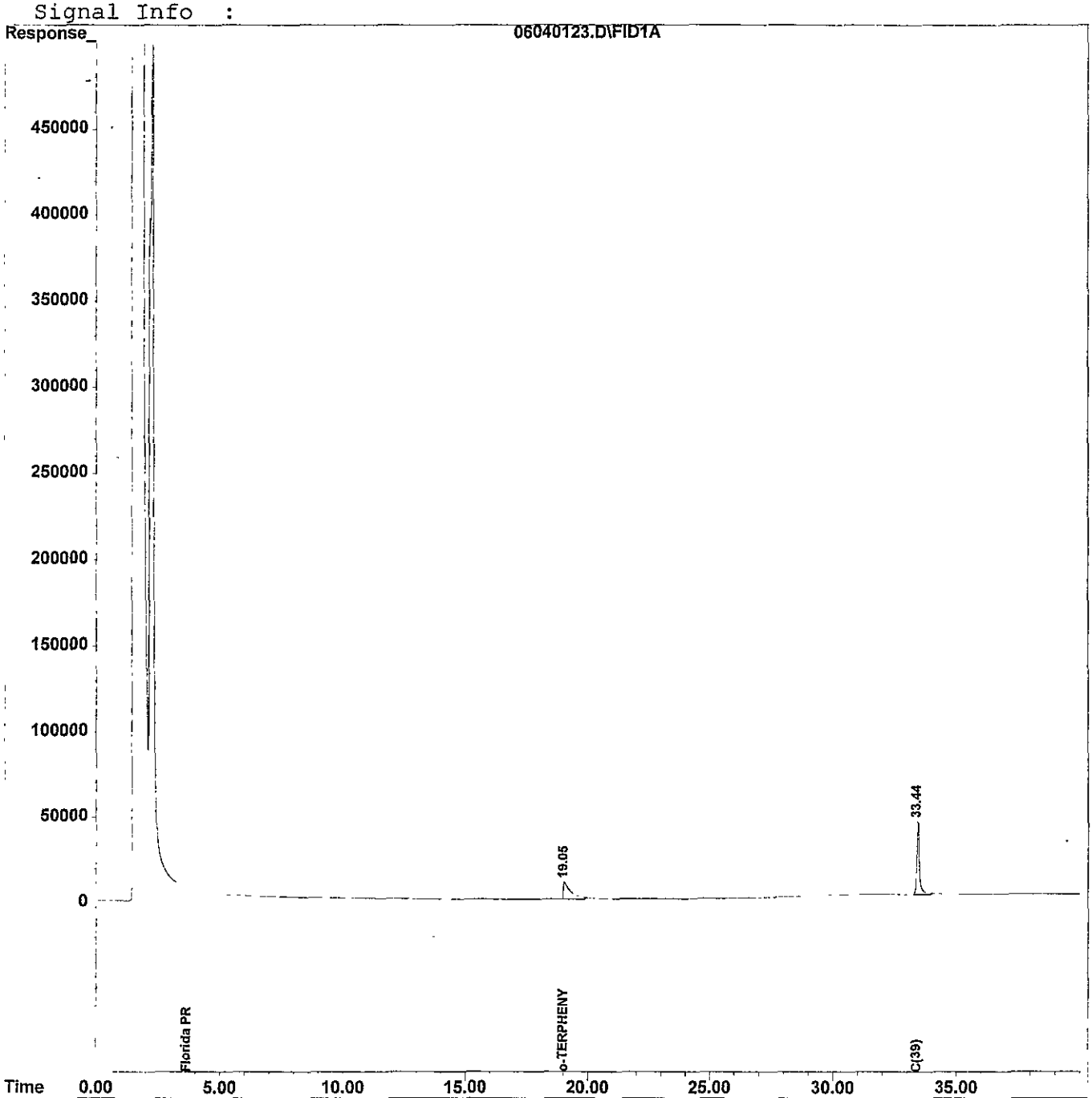
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\2\DATA\060401\06040123.D Vial: 23
Acq On : 5 Jun 2001 3:44 Operator: BP
Sample : 14041 W Inst : DRO-B
Misc : Multiplr: 1.00
IntFile : events.e
Quant Time: Jun 5 7:36 2001 Quant Results File: PRO0322.RES

Quant Method : C:\HPCHEM\2\METHODS\PRO0322.M (Chemstation Integrator)
Title : FLORIDA PRO BY GC; INST. #2
Last Update : Tue Jan 02 11:40:23 2001
Response via : Multiple Level Calibration
DataAcq Meth : PRO0322.M

Volume Inj. :
Signal Phase :
Signal Info :



Data File : C:\HPCHEM\2\DATA\060401\06040103.D Vial: 3
Acq On : 4 Jun 2001 11:35 Operator: BP
Sample : QFW053001 Inst : DRO-B
Misc : PRO WATER BLANK Multiplr: 1.00
IntFile : events.e
Quant Time: Jun 4 13:07 2001 Quant Results File: PRO0322.RES

Quant Method : C:\HPCHEM\2\METHODS\PRO0322.M (Chemstation Integrator)
Title : FLORIDA PRO BY GC; INST. #2
Last Update : Tue Jan 02 11:40:23 2001
Response via : Initial Calibration
DataAcq Meth : PRO0322.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) SC o-TERPHENYL	19.07f	2237139	46.320 ug/mlm
Spiked Amount 50.000	Recovery =		92.64%
3) SC C(39)	33.43f	1170296	26.946 ug/mlm
Spiked Amount 300.000	Recovery =		8.98%
Target Compounds			
1) HM Florida PRO	3.70	26100157	474.997 ug/ml

< 1/2 RL

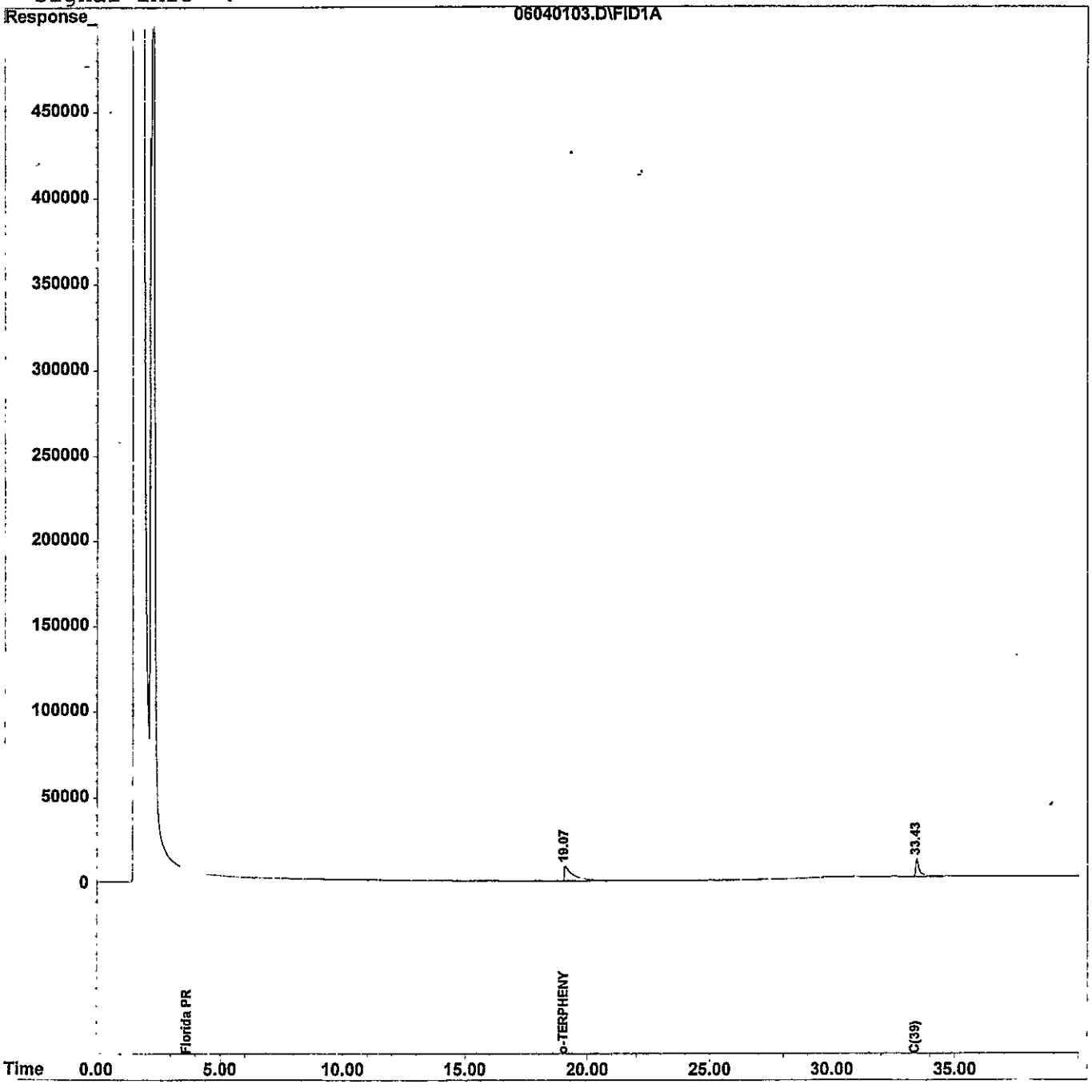
(_)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\2\DATA\060401\06040103.D Vial: 3
Acq On : 4 Jun 2001 11:35 Operator: BP
Sample : QFW0530011 Inst : DRO-B
Misc : PRO WATER BLANK Multiplr: 1.00
IntFile : events.e
Quant Time: Jun 4 13:07 2001 Quant Results File: PRO0322.RES

Quant Method : C:\HPCHEM\2\METHODS\PRO0322.M (Chemstation Integrator)
Title : FLORIDA PRO BY GC; INST. #2
Last Update : Tue Jan 02 11:40:23 2001
Response via : Multiple Level Calibration
DataAcq Meth : PRO0322.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\2\DATA\060401\0604010[illegible].D Vial: 4
Acq On : 4 Jun 2001 12:23 Operator: BP
Sample : QFW0530012 Inst : DRO-B
Misc : PRO WATER LCS Multiplr: 1.00
IntFile : events.e
Quant Time: Jun 4 13:06 2001 Quant Results File: PRO0322.RES

Quant Method : C:\HPCHEM\2\METHODS\PRO0322.M (Chemstation Integrator)
Title : FLORIDA PRO BY GC; INST. #2
Last Update : Tue Jan 02 11:40:23 2001
Response via : Initial Calibration
DataAcq Meth : PRO0322.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
2) SC o-TERPHENYL	18.84f	2285501	47.321 ug/mlm
Spiked Amount 50.000	Recovery =		94.64%
3) SC C(39)	33.50f	3161615	72.796 ug/mlm
Spiked Amount 300.000	Recovery =		24.27%
Target Compounds			
1) HM Florida PRO	3.70	176374311	3209.835 ug/ml

3209.835 / 4250 = 76%

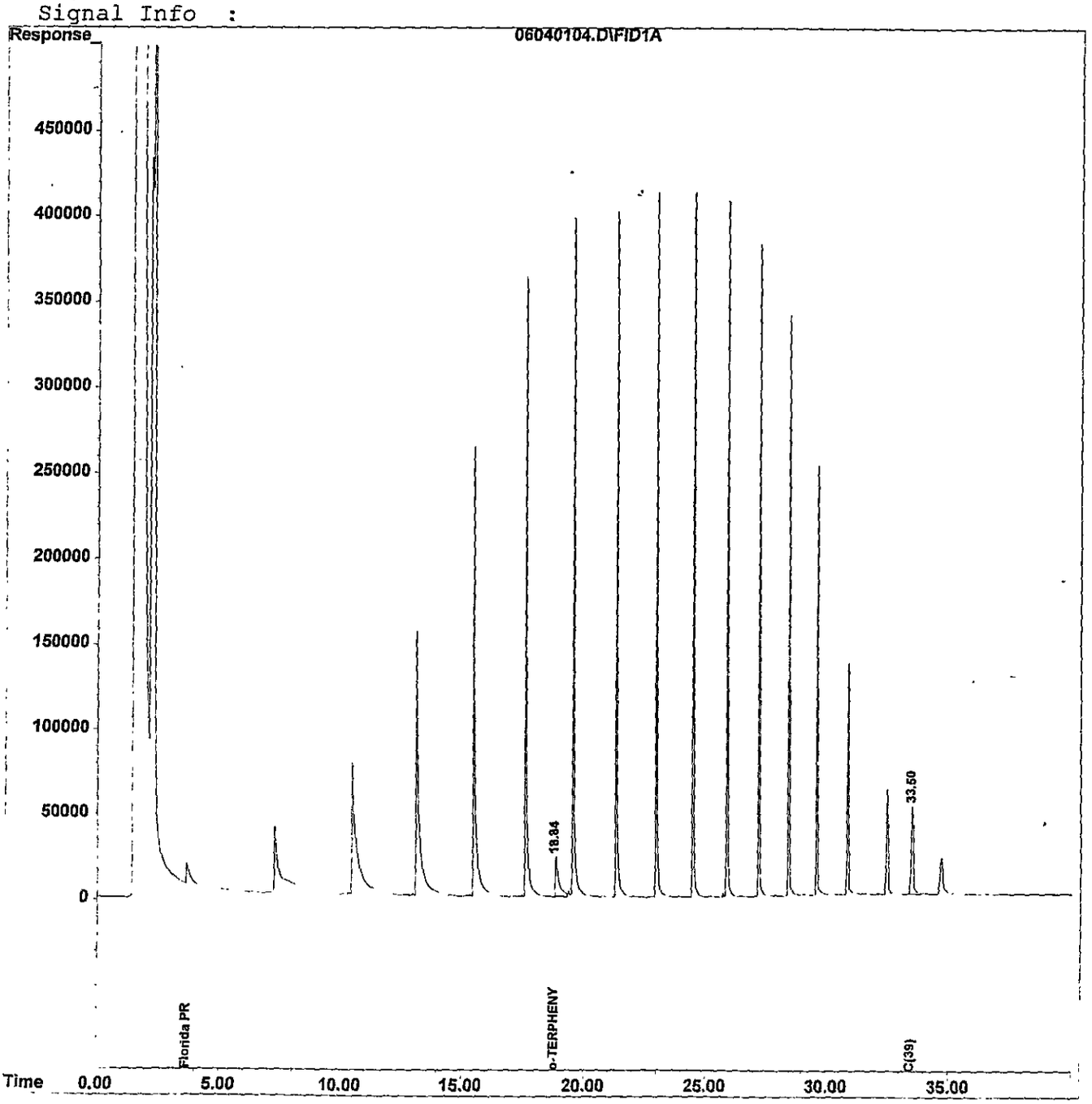
f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report

Data File : C:\HPCHEM\2\DATA\060401\06040104.D Vial: 4
Acq On : 4 Jun 2001 12:23 Operator: BP
Sample : QFW0530012 Inst : DRO-B
Misc : PRO WATER LCS Multiplr: 1.00
IntFile : events.e
Quant Time: Jun 4 13:06 2001 Quant Results File: PRO0322.RES

Quant Method : C:\HPCHEM\2\METHODS\PRO0322.M (Chemstation Integrator)
Title : FLORIDA PRO BY GC; INST. #2
Last Update : Tue Jan 02 11:40:23 2001
Response via : Multiple Level Calibration
DataAcq Meth : PRO0322.M

Volume Inj. :
Signal Phase :
Signal Info :



ACCURA ANALYTICAL LABORATORY, INC.

Environmental Analytical Services

Metals Checklist

Project #: 27988 **Instrument Used: Trace ICAP/ICAP/GFAA/FIMS Hg**

Analyst Questions

1. **Is the Blank <1/2 RDL?** Yes **If not, has the RDL been raised or the samples reanalyzed?** _____
2. **Are the LCS/LCSD within limits?** Yes **If not, why, or are the samples being reanalyzed?** _____
3. **Duplicate AAL sample number** 14039
   Is the RPD acceptable? Yes **If not, what is the reason?** _____
4. **MS/MSD AAL sample number** 14039
   Are the recoveries acceptable? Yes **If not, what is the reason?** _____
5. **Sample numbers requiring dilution?** _____
   Reason for dilution. _____
6. **Are all special requirements on project sheet completed?** _____ **If unable to complete, has the project manager been notified?** _____
7. **Any additional comments.** MS/MSD, LCS % Recovery not available.

Reviewer Questions

8. **Is the ICV within ± 10% for 6010B, or 5% for 200.7?** ✓
9. **For Hg and GFAA, is the curve acceptable, (>0.995 correlation coefficient)?** —
10. **Verified the correct date & time; sample results with sigfigs in LIMS** ✓
11. **Verified the RDL and its sigfigs according to dilution** ✓

Analyst entering results in Labworks. MG **Date:** 6/11/01

Peer Reviewer: AP **Date:** 6/14/01

Peer Reviewer is responsible for reviewing all above questions.

#	Sample Name	File	Method	Date	Time	OpID	Type	Mode
1	STD1-Blank	JUN0801	WATERS2	06/08/01	10:02		X	IR
2	STD8	JUN0801	WATERS2	06/08/01	10:09		X	IR
3	STD3	JUN0801	WATERS2	06/08/01	10:13		X	IR
4	STD4	JUN0801	WATERS2	06/08/01	10:18		X	IR
5	STD2	JUN0801	WATERS2	06/08/01	10:22		X	IR
6	ICV 2	JUN0801	WATERS2	06/08/01	10:27	MA	Q	CONC
7	ICB	JUN0801	WATERS2	06/08/01	10:34	MA	B	CONC
8	ICS A	JUN0801	WATERS2	06/08/01	10:40	MA	Q	CONC
9	ICS AB	JUN0801	WATERS2	06/08/01	10:47	MA	Q	CONC
10	SS I	JUN0801	WATERS2	06/08/01	10:53	MA	Q	CONC
11	SS I LOW	JUN0801	WATERS2	06/08/01	11:00	MA	Q	CONC
12	13985 DS	JUN0801	WATERS2	06/08/01	11:06	MA	S	CONC
13	13986 DS	JUN0801	WATERS2	06/08/01	11:12	MA	S	CONC
14	13988 DS	JUN0801	WATERS2	06/08/01	11:17	MA	S	CONC
15	13990 DS	JUN0801	WATERS2	06/08/01	11:22	MA	S	CONC
16	13992 DS	JUN0801	WATERS2	06/08/01	11:28	MA	S	CONC
17	13993 DS	JUN0801	WATERS2	06/08/01	11:33	MA	S	CONC
18	13994 DS	JUN0801	WATERS2	06/08/01	11:38	MA	S	CONC
19	13996 DS	JUN0801	WATERS2	06/08/01	11:43	MA	S	CONC
20	13998 DS	JUN0801	WATERS2	06/08/01	11:49	MA	S	CONC
21	14000 DS	JUN0801	WATERS2	06/08/01	11:54	MA	S	CONC
22	ICV 2	JUN0801	WATERS2	06/08/01	12:02	MA	Q	CONC
23	ICB	JUN0801	WATERS2	06/08/01	12:07	MA	B	CONC
24	14001 DS	JUN0801	WATERS2	06/08/01	12:16	MA	S	CONC
25	14003 DS	JUN0801	WATERS2	06/08/01	12:21	MA	S	CONC
26	14004 DS	JUN0801	WATERS2	06/08/01	12:27	MA	S	CONC
27	14012 DS	JUN0801	WATERS2	06/08/01	12:32	MA	S	CONC
28	14012 DDS	JUN0801	WATERS2	06/08/01	12:37	MA	S	CONC
29	14012 DSMSA	JUN0801	WATERS2	06/08/01	12:42	MA	S	CONC
30	ICV 2	JUN0801	WATERS2	06/08/01	12:50	MA	Q	CONC
31	ICB	JUN0801	WATERS2	06/08/01	12:56	MA	B	CONC
32	QMW06060110 1550	JUN0801	WATERS2	06/08/01	13:01	MA	S	CONC
33	QMW06060111 LCS	JUN0801	WATERS2	06/08/01	13:06	MA	S	CONC
34	QMW06060112 LCSD	JUN0801	WATERS2	06/08/01	13:12	MA	S	CONC
35	14073	JUN0801	WATERS2	06/08/01	13:17	MA	S	CONC
36	14074	JUN0801	WATERS2	06/08/01	13:22	MA	S	CONC
37	14075	JUN0801	WATERS2	06/08/01	13:27	MA	S	CONC
38	14075 D	JUN0801	WATERS2	06/08/01	13:33	MA	S	CONC
39	14075 MS	JUN0801	WATERS2	06/08/01	13:38	MA	S	CONC
40	14075 MSD	JUN0801	WATERS2	06/08/01	13:43	MA	S	CONC
41	14014	JUN0801	WATERS2	06/08/01	13:48	MA	S	CONC
42	ICV 2	JUN0801	WATERS2	06/08/01	13:56	MA	Q	CONC
43	ICB	JUN0801	WATERS2	06/08/01	14:02	MA	B	CONC
44	ICV ZN	JUN0801	WATERS2	06/08/01	14:09	MA	S	CONC
45	ICV ZN	JUN0801	WATERS2	06/08/01	14:12	MA	S	CONC
46	ICB ZN	JUN0801	WATERS2	06/08/01	14:16	MA	S	CONC
47	BLK RER ZN	JUN0801	WATERS2	06/08/01	14:20	MA	S	CONC
48	14575 ZN	JUN0801	WATERS2	06/08/01	14:23	MA	S	CONC
49	14578 ZN	JUN0801	WATERS2	06/08/01	14:29	MA	S	CONC
50	ICV ZN	JUN0801	WATERS2	06/08/01	14:34	MA	S	CONC
51	ICB ZN	JUN0801	WATERS2	06/08/01	14:39	MA	S	CONC
52	ICV 2	JUN0801	WATERS2	06/08/01	14:55	MA	Q	CONC
53	ICB	JUN0801	WATERS2	06/08/01	15:02	MA	B	CONC

#	Sample Name	File	Method	Date	Time	OpID	Type	Mode
54	14015	JUN0801	WATERS2	06/08/01	15:08	MA	S	CONC
55	14016	JUN0801	WATERS2	06/08/01	15:13	MA	S	CONC
56	14017	JUN0801	WATERS2	06/08/01	15:18	MA	S	CONC
57	14018	JUN0801	WATERS2	06/08/01	15:24	MA	S	CONC
58	14019	JUN0801	WATERS2	06/08/01	15:29	MA	S	CONC
59	14020	JUN0801	WATERS2	06/08/01	15:34	MA	S	CONC
60	ICV 2	JUN0801	WATERS2	06/08/01	15:43	MA	Q	CONC
61	ICB	JUN0801	WATERS2	06/08/01	15:49	MA	B	CONC
62	QMW0606014 1310	JUN0801	WATERS2	06/08/01	15:55	MA	S	CONC
63	QMW0606015 LCS	JUN0801	WATERS2	06/08/01	16:02	MA	S	CONC
64	QMW0606016 LCSD	JUN0801	WATERS2	06/08/01	16:08	MA	S	CONC
65	14016	JUN0801	WATERS2	06/08/01	16:14	MA	S	CONC
66	14017	JUN0801	WATERS2	06/08/01	16:21	MA	S	CONC
67	14018	JUN0801	WATERS2	06/08/01	16:27	MA	S	CONC
68	14019	JUN0801	WATERS2	06/08/01	16:33	MA	S	CONC
69	14020	JUN0801	WATERS2	06/08/01	16:40	MA	S	CONC
70	14027	JUN0801	WATERS2	06/08/01	16:46	MA	S	CONC
71	ICV 2	JUN0801	WATERS2	06/08/01	16:55	MA	Q	CONC
72	ICB	JUN0801	WATERS2	06/08/01	17:03	MA	B	CONC
73	BLK TCLP PB	JUN0801	WATERS2	06/08/01	17:11	MA	S	CONC
74	14684 TCLP PB	JUN0801	WATERS2	06/08/01	17:18	MA	S	CONC
75	14685 TCLP PB	JUN0801	WATERS2	06/08/01	17:25	MA	S	CONC
76	14686 TCLP PB	JUN0801	WATERS2	06/08/01	17:32	MA	S	CONC
77	ICV	JUN0801	WATERS2	06/08/01	17:40	MA	S	CONC
78	ICB	JUN0801	WATERS2	06/08/01	17:46	MA	S	CONC
79	ICV 2	JUN0801	WATERS2	06/08/01	17:51	MA	Q	CONC
80	ICB	JUN0801	WATERS2	06/08/01	17:58	MA	B	CONC
81	BLK TCLP PB	JUN0801	WATERS2	06/08/01	18:10	MA	S	CONC
82	AC14686	JUN0801	WATERS2	06/08/01	18:15	MA	S	CONC
83	ICV	JUN0801	WATERS2	06/08/01	18:22	MA	S	CONC

pro 27988 (Pb)

060601-B

#	Element	STD'lank	STD8	STD3	STD4	STD2	ICV 2
1	Ag3280	-.00153	.69751				.9916
2	Al3082	.00866		.07752			Q.9283
3	As1890	.00065			.32403		1.009
4	Ba4934	-.00001				1.85244	1.007
5	Be3130	-.00127		1.90893			1.016
6	Ca3179	.00126				.08179	1.032
7	Cd2265	-.00015				1.36425	1.020
8	Co2286	-.00057				.93114	1.021
9	Cr2677	-.00007			.71796		1.008
10	Cu3247	.00422				.47194	.9905
11	Fe2714	.00044		.03643			Q1.123
12	K_7664	.00377				1.56598	9.536
13	Mg2790	-.00018				.04847	.9890
14	Mn2576	.00031				.78412	1.023
15	Ni2316	-.00094		.63364			1.008
16	2203/1	.00192				2.62883	1.012
17	2203/2	-.00189				2.46685	1.016
18	1960/1	-.00979			1.17045		1.014
19	1960/2	.00231			.49778		1.004
20	Sb2068	.00056		.35148			.9814
21	Sn1899	.0002		.28969			1.008
22	Tl1908	-.00037		.11426			1.016
23	V_2924	0			.01418		.9926
24	Zn2062	.00005				.27421	1.034
25	Pb2203						1.014
26	Se1960						1.011

#	Element	ICB	ICS A	ICS AB	SS I	SS I LOW	13985 DS
1	Ag3280	.0002	-.0002	.3029	.0010	.0006	
2	Al3082	-.0556	50.41	50.65	Q-.0132	-.0426	.0025
3	As1890	-.0047	-.0091	1.064	Q.0296	Q-.0017	
4	Ba4934	.0003	.0003	.3035	.0403	.0103	
5	Be3130	.0002	.0000	.1062	.0010	.0002	
6	Ca3179	-.0005	52.00	52.00	.0560	.0649	.8258
7	Cd2265	-.0001	.0028	.3139	.0009	.0000	
8	Co2286	.0003	.0014	.3050	.0105	.0023	
9	Cr2677	.0001	.0018	.3067	.0042	Q.0008	.0007
10	Cu3247	-.0002	Q.0322	.3362	.0042	.0010	
11	Fe2714	.0013	50.88	50.99	Q.0573	.1172	.0573
12	K_7664	.0033	Q.2634	Q31.88	.0289	-.0338	
13	Mg2790	.0013	52.61	52.32	.0067	-.0004	.4327
14	Mn2576	.0002	.0010	.2076	.0107	Q.0031	
15	Ni2316	.0005	.0013	.3024	.0110	.0028	
16	2203/1	-.0003	.0216	1.056	.0090	.0020	-.0018
17	2203/2	.0005	-.0014	1.034	.0120	.0043	.0025
18	1960/1	.0052	.0073	.5349	.0457	.0114	
19	1960/2	.0014	.0045	.5293	.0427	.0100	
20	Sb2068	.0013	.0128	1.049	.0096	.0011	
21	Sn1899	.0010	.0011	1.064	-.0001	-.0033	
22	Tl1908	.0021	Q.0470	1.117	.0444	.0117	.0042
23	V_2924	.0013	-.0007	.3070	.0110	Q.0020	

#	Element	ICB	ICS A	ICS AB	SS I	SS I LOW	13985 DS
24	Zn2062	.0000	.0029	.3156	Q.0125	.0045	
25	Pb2203	.0001	.0141	1.049	.0101	.0029	-.0002
26	Se1960	.0040	.0062	.5329	.0448	.0111	

#	Element	13986 DS	13988 DS	13990 DS	13992 DS	13993 DS	13994 DS
1	Ag3280						
2	Al3082	-.0004	-.0936	-.0115	-.0443	.0157	.0001
3	As1890						
4	Ba4934						
5	Be3130						
6	Ca3179	.1631	21.01	1.622	8.475	9.064	.0444
7	Cd2265						
8	Co2286						
9	Cr2677	.0007	.0006	.0011	.0022	.0037	.0006
10	Cu3247						
11	Fe2714	-.0139	.0658	1.011	27.90	32.51	.0016
12	K_7664						
13	Mg2790	.0102	3.757	1.250	5.950	6.270	.0106
14	Mn2576						
15	Ni2316						
16	2203/1	-.0005	-.0025	-.0012	-.0002	.0010	-.0028
17	2203/2	.0013	.0032	.0008	.0050	.0037	.0025
18	1960/1						
19	1960/2						
20	Sb2068						
21	Sn1899						
22	Tl1908	.0026	-.0024	.0003	.0134	.0183	.0029
23	V_2924						
24	Zn2062						
25	Pb2203	.0002	-.0005	-.0004	.0017	.0020	-.0009
26	Se1960						

#	Element	13996 DS	13998 DS	14000 DS	ICV 2	ICB	14001 DS
1	Ag3280						
2	Al3082	-.0269	-.3567	-.1615	.9574	-.0213	-.0998
3	As1890						
4	Ba4934						
5	Be3130						
6	Ca3179	3.543	67.08	10.08	.9945	-.0025	7.933
7	Cd2265						
8	Co2286						
9	Cr2677	.0011	.0015	.0008	.9811	-.0003	.0004
10	Cu3247						
11	Fe2714	6.235	50.94	20.21	Q1.124	.0068	15.63
12	K_7664						
13	Mg2790	2.342	5.723	1.723	.9550	-.0059	1.482
14	Mn2576						
15	Ni2316						
16	2203/1	-.0022	.0153	.0018	1.001	-.0005	.0014
17	2203/2	.0013	.0145	.0036	.9950	.0010	.0036

#	Element	13996 DS	13998 DS	14000 DS	ICV 2	ICB	14001 DS
18	1960/1						
19	1960/2						
20	Sb2068						
21	Sn1899						
22	Tl1908	.0029	.0223	.0001	1.022	.0004	.0058
23	V_2924						
24	Zn2062						
25	Pb2203	-.0009	.0152	.0025	.9990	.0001	.0023
26	Se1960						

#	Element	14003 DS	14004 DS	14012 DS	140' DDS	140'SMSA	ICV 2
1	Ag3280						
2	Al3082	-.0993	.0252	-.1070	-.0996	.3014	.9613
3	As1890						
4	Ba4934						
5	Be3130						
6	Ca3179	2.598	.0195	6.431	6.434	6.653	.9942
7	Cd2265						
8	Co2286						
9	Cr2677	.0008	.0004	.0010	.0009	.2047	.9821
10	Cu3247						
11	Fe2714	15.63	-.0117	13.60	13.61	13.78	Q1.108
12	K_7664						
13	Mg2790	1.545	.0052	4.729	4.715	4.873	.9488
14	Mn2576						
15	Ni2316						
16	2203/1	.0014	-.0015	.0106	.0102	.2218	1.006
17	2203/2	.0015	.0019	.0142	.0113	.2210	1.001
18	1960/1						
19	1960/2						
20	Sb2068						
21	Sn1899						
22	Tl1908	.0105	.0022	.0089	.0069	.2223	1.028
23	V_2924						
24	Zn2062						
25	Pb2203	.0016	-.0002	.0120	.0107	.2218	1.005
26	Se1960						

#	Element	ICB	QMW'1550	QMW' LCS	QMW'LCSD	14073	14074
1	Ag3280						
2	Al3082	-.0177	.4869	12.57	11.94	68.24	-.0214
3	As1890						
4	Ba4934						
5	Be3130						
6	Ca3179	-.0034	.1428	12.33	12.50	24.83	21.13
7	Cd2265						
8	Co2286						
9	Cr2677	-.0002	.0010	2.439	2.515	.0634	.0031
10	Cu3247						
11	Fe2714	-.0037	.0653	12.36	12.59	58.09	12.85

#	Element	ICB	QMW'1550	QMW' LCS	QMW'LCSD	14073	14074
12	K_7664						
13	Mg2790	-.0040	.0127	11.69	11.52	34.24	12.45
14	Mn2576						
15	Ni2316						
16	2203/1	.0000	.0019	2.492	2.515	.0672	.0048
17	2203/2	.0008	.0016	2.464	2.416	.0307	.0027
18	1960/1						
19	1960/2						
20	Sb2068						
21	Sn1899						
22	T11908	.0006	-.0007	2.580	2.603	.0662	.0149
23	V_2924						
24	Zn2062						
25	Pb2203	.0004	.0019	2.483	2.482	.0552	.0043
26	Se1960						

#	Element	14075	14075 D	14075 MS	140' MSD	14014	ICV 2
1	Ag3280						
2	Al3082	6.961	7.727	24.61	27.71	-1.401	.9456
3	As1890						
4	Ba4934						
5	Be3130						
6	Ca3179	11.83	13.14	27.09	32.13	418.0	1.038
7	Cd2265						
8	Co2286						
9	Cr2677	.0040	.0038	2.545	2.398	.0038	1.000
10	Cu3247						
11	Fe2714	3.218	3.408	17.20	21.11	28.87	Q1.137
12	K_7664						
13	Mg2790	7.070	7.938	21.24	26.69	9.137	.9733
14	Mn2576						
15	Ni2316						
16	2203/1	.0087	.0067	2.590	2.554	.0119	1.035
17	2203/2	.0063	.0078	2.536	2.532	-.0052	1.028
18	1960/1						
19	1960/2						
20	Sb2068						
21	Sn1899						
22	T11908	-.0009	-.0005	2.696	2.694	.0405	1.046
23	V_2924						
24	Zn2062						
25	Pb2203	.0081	.0072	2.572	2.547	.0064	1.033
26	Se1960						

#	Element	ICB	ICV ZN	ICV ZN	ICB ZN	BLK'R ZN	14575 ZN
1	Ag3280						
2	Al3082	-.0102					
3	As1890						
4	Ba4934						
5	Be3130						

#	Element	ICB	ICV ZN	ICV ZN	ICB ZN	BLK'R ZN	14575 ZN
6	Ca3179	-.0035					
7	Cd2265						
8	Co2286						
9	Cr2677	.0003					
10	Cu3247						
11	Fe2714	-.0003					
12	K_7664						
13	Mg2790	-.0012					
14	Mn2576						
15	Ni2316						
16	2203/1	.0003					
17	2203/2	.0011					
18	1960/1						
19	1960/2						
20	Sb2068						
21	Sn1899						
22	Tl1908	.0028					
23	V_2924						
24	Zn2062		.8740	1.018	.0054	.0092	.0632
25	Pb2203	.0007					
26	Se1960						

#	Element	14578 ZN	ICV ZN	ICB ZN	ICV 2	ICB	14015
1	Ag3280						
2	Al3082				Q1.311	.0032	-1.600
3	As1890						
4	Ba4934						
5	Be3130						
6	Ca3179				.9968	-.0044	426.5
7	Cd2265						
8	Co2286						
9	Cr2677				.9710	-.0008	.0077
10	Cu3247						
11	Fe2714				Q1.093	.0018	16.54
12	K_7664						
13	Mg2790				Q.9443	-.0092	5.680
14	Mn2576						
15	Ni2316						
16	2203/1				1.010	-.0019	-.0012
17	2203/2				.9916	.0011	-.0013
18	1960/1						
19	1960/2						
20	Sb2068						
21	Sn1899						
22	Tl1908				1.019	.0014	.0127
23	V_2924						
24	Zn2062	.0971	1.041	-.0000			
25	Pb2203				1.004	-.0007	-.0011
26	Se1960						

#	Element	14016	14017	14018	14019	14020	ICV 2
1	Ag3280						.9975
2	Al3082	.2579	10.92	.0905	10.52	9.120	Q1.164
3	As1890						1.014
4	Ba4934						.9752
5	Be3130						1.027
6	Ca3179	234.0	13.79	.1436	255.6	71.20	Q1.062
7	Cd2265						1.001
8	Co2286						1.023
9	Cr2677	.0053	.0125	.0057	.0178	.0166	1.000
10	Cu3247						.9984
11	Fe2714	10.13	31.57	.1016	21.93	6.262	Q1.123
12	K_7664						9.716
13	Mg2790	4.595	5.829	.0029	6.173	9.487	.9744
14	Mn2576						1.021
15	Ni2316						.9757
16	2203/1	.0086	.0139	.0018	.0156	.0083	1.037
17	2203/2	-.0040	.0027	.0013	-.0028	.0053	1.027
18	1960/1						.9897
19	1960/2						.9970
20	Sb2068						.9560
21	Sn1899						1.026
22	Tl1908	.0079	.0263	.0002	.0159	-.0006	1.041
23	V_2924						.9816
24	Zn2062						1.008
25	Pb2203	.0045	.0103	.0018	.0096	.0075	1.034
26	Se1960						.9922

#	Element	ICB	QMW'1310 15:55	QMW' LCS	QMW'LCSD	14016	14017
1	Ag3280	.0006	.0003	.8396	1.062	.0004	.0007
2	Al3082	.0405	.1028	4.658	5.316	-.0690	3.318
3	As1890	-.0078	-.0097	.9560	1.112	-.0129	-.0117
4	Ba4934	.0003	.0010	.8884	1.032	.0439	.0413
5	Be3130	.0003	.0000	.9492	1.116	.0001	.0016
6	Ca3179	-.0001	.3781	5.153	5.916	98.04	5.648
7	Cd2265	.0002	.0000	.9285	1.077	.0000	.0003
8	Co2286	.0007	.0004	.9489	1.106	.0004	.0056
9	Cr2677	.0006	.0013	.9163	1.068	.0021	.0038
10	Cu3247	-.0022	-.0016	.9448	1.103	.0101	.0022
11	Fe2714	-.0022	.0317	4.715	5.517	4.030	11.69
12	K_7664	.0305	.1102	53.18	61.92	1.332	3.713
13	Mg2790	.0044	.0195	4.553	5.289	1.893	2.345
14	Mn2576	.0003	.0016	.9447	1.096	.0711	.0081
15	Ni2316	.0010	.0022	.9002	1.046	.0017	.0056
16	2203/1	.0007	-.0000	.9712	1.133	-.0013	.0019
17	2203/2	.0021	.0018	.9617	1.117	.0024	.0018
18	1960/1	.0001	.0022	.9322	1.078	.0060	.0060
19	1960/2	.0010	.0008	.9396	1.089	.0050	.0007
20	Sb2068	.0029	.0010	.8925	1.034	.0017	.0025
21	Sn1899	.0011	-.0016	-.0016	-.0003	-.0009	-.0010
22	Tl1908	.0016	-.0006	.9860	1.144	.0075	.0132
23	V_2924	.0007	.0007	.9116	1.060	.0013	.0144

#	Element	ICB	QMW'1310 15:55	QMW' LCS	QMW'LCSD	14016	14017
24	Zn2062	-.0003	.0249 ✓	.9493 ✓	1.112 ✓	.0501	.0306
25	Pb2203	.0013	.0007	.9682 ✓	1.128 ✓	.0001	.0020
26	Se1960	.0005	.0018	.9347	1.081	.0058	.0043

#	Element	14018	14019	14020	14027 16:46	ICV 2	ICB
1	Ag3280	.0005	.0005	.0006	.0001	1.001	.0009
2	Al3082	.1756	1.919	2.036	12.12	Q1.193	.0613
3	As1890	-.0124	-.0113	-.0137	-.0053	1.014	-.0073
4	Ba4934	.0008	.1088	.0182	.2003	.9704	.0004
5	Be3130	.0000	.0003	.0000	.0077	1.029	.0004
6	Ca3179	.4396	104.4	25.35	83.81	Q1.060	.0012
7	Cd2265	-.0000	-.0001	-.0005	.0002	.9855	.0001
8	Co2286	.0004	.0006	-.0000	.0030	1.020	.0010
9	Cr2677	.0023	.0045	.0039	.0148	.9939	.0003
10	Cu3247	-.0017	.0121	.0033	.0176	1.012	-.0021
11	Fe2714	.0325	7.950	1.812	6.907	Q1.121	.0011
12	K_7664	.1250	1.654	4.046	5.639	9.830	-.0009
13	Mg2790	.0178	2.488	3.502	6.071	.9682	.0030
14	Mn2576	.0017	.0702	.0428	.0956	1.021	.0004
15	Ni2316	.0025	.0017	.0020	.0112	.9586	.0010
16	2203/1	.0018	.0016	-.0004	.0998	1.045	-.0001
17	2203/2	-.0002	.0005	.0018	.0990	1.024	.0009
18	1960/1	.0010	.0015	.0024	.0160	.9963	.0018
19	1960/2	.0014	.0010	.0006	-.0035	1.006	.0033
20	Sb2068	.0007	.0032	-.0026	.0012	Q.9446	.0018
21	Sn1899	-.0017	.0004	-.0046	-.0002	1.026	.0017
22	Tl1908	.0040	.0086	.0015	.0084	1.039	.0011
23	V_2924	.0013	.0059	.0054	.0717	.9775	.0013
24	Zn2062	.0305	.0133	.0271	.0689	.9944	.0002
25	Pb2203	.0013	.0013	.0005	.0997 ✓	1.038	.0004
26	Se1960	.0012	.0014	.0019	.0095	.9996	.0024

#	Element	BLK'P PB	146'P PB	146'P PB	146'P PB	ICV	ICB
1	Ag3280						
2	Al3082	138.1	12.04	11.39	10.36	1.070	.0385
3	As1890						
4	Ba4934						
5	Be3130						
6	Ca3179	7.388	265.5	252.7	137.3	1.060	-.0026
7	Cd2265						
8	Co2286						
9	Cr2677						
10	Cu3247						
11	Fe2714	-.7633	-1.770	-1.697	-1.214	1.127	.0032
12	K_7664						
13	Mg2790	3.498	30.51	31.12	551.1	.9586	.0070
14	Mn2576						
15	Ni2316						
16	2203/1	-.0485	.7027	.4773	-.1674	1.035	-.0006
17	2203/2	.1409	.9415	.7276	.2301	1.042	.0008

#	Element	BLK'P PB	146'P PB	146'P PB	146'P PB	ICV	ICB
18	1960/1						
19	1960/2						
20	Sb2068						
21	Sn1899						
22	Tl1908						
23	V_2924						
24	Zn2062						
25	Pb2203	.0281	.7958	.5742	-.0213	1.037	.0000
26	Se1960						

#	Element	ICV 2	ICB	BLK'P PB	AC14686	ICV	
1	Ag3280	.9971	.0008				
2	Al3082	Q1.324	.0477				
3	As1890	.9971	-.0088				
4	Ba4934	.9803	.0002				
5	Be3130	1.008	.0001				
6	Ca3179	1.036	-.0026				
7	Cd2265	.9576	.0000				
8	Co2286	.9987	.0004				
9	Cr2677	.9741	.0002				
10	Cu3247	1.019	-.0024				
11	Fe2714	Q1.101	.0020				
12	K_7664	9.532	-.0090				
13	Mg2790	.9462	.0025				
14	Mn2576	1.005	.0002				
15	Ni2316	Q.9394	.0008				
16	2203/1	1.017	-.0004	-.0008	.0090	1.014	
17	2203/2	1.003	.0020	.0032	.0112	1.011	
18	1960/1	.9911	.0024				
19	1960/2	1.000	.0015				
20	Sb2068	Q.9362	.0018				
21	Sn1899	1.004	-.0009				
22	Tl1908	1.024	.0016				
23	V_2924	.9667	.0006				
24	Zn2062	.9596	-.0001				
25	Pb2203	1.013	.0006	.0033	.0126	1.013	
26	Se1960	.9942	.0022				

#	Sample Name	File	Method	Date	Time	OpID	Type	Mode
1	STD1-Blank	JUN1101	WATERS2	06/11/01	10:03		X	IR
2	STD8	JUN1101	WATERS2	06/11/01	10:09		X	IR
3	STD8	JUN1101	WATERS2	06/11/01	10:13		X	IR
4	STD3	JUN1101	WATERS2	06/11/01	10:16		X	IR
5	STD4	JUN1101	WATERS2	06/11/01	10:21		X	IR
6	STD2	JUN1101	WATERS2	06/11/01	10:26		X	IR
7	ICV 2	JUN1101	WATERS2	06/11/01	10:30	MA	Q	CONC
8	ICB	JUN1101	WATERS2	06/11/01	10:42	MA	B	CONC
9	ICS A	JUN1101	WATERS2	06/11/01	10:48	MA	Q	CONC
10	ICS AB	JUN1101	WATERS2	06/11/01	10:54	MA	Q	CONC
11	SS I	JUN1101	WATERS2	06/11/01	11:01	MA	Q	CONC
12	SS I LOW	JUN1101	WATERS2	06/11/01	11:07	MA	Q	CONC
13	14028	JUN1101	WATERS2	06/11/01	11:14	MA	S	CONC
14	14029	JUN1101	WATERS2	06/11/01	11:19	MA	S	CONC
15	14030	JUN1101	WATERS2	06/11/01	11:24	MA	S	CONC
16	14031	JUN1101	WATERS2	06/11/01	11:28	MA	S	CONC
17	14032	JUN1101	WATERS2	06/11/01	11:33	MA	S	CONC
18	14033	JUN1101	WATERS2	06/11/01	11:37	MA	S	CONC
19	14034	JUN1101	WATERS2	06/11/01	11:42	MA	S	CONC
20	14035	JUN1101	WATERS2	06/11/01	11:47	MA	S	CONC
21	14036	JUN1101	WATERS2	06/11/01	11:51	MA	S	CONC
22	ICV 2	JUN1101	WATERS2	06/11/01	11:59	MA	Q	CONC
23	ICV 2	JUN1101	WATERS2	06/11/01	12:05	MA	Q	CONC
24	ICB	JUN1101	WATERS2	06/11/01	12:11	MA	B	CONC
25	14037	JUN1101	WATERS2	06/11/01	12:18	MA	S	CONC
26	14038	JUN1101	WATERS2	06/11/01	12:24	MA	S	CONC
27	14039	JUN1101	WATERS2	06/11/01	12:30	MA	S	CONC
28	14039 D	JUN1101	WATERS2	06/11/01	12:36	MA	S	CONC
29	14039 MS	JUN1101	WATERS2	06/11/01	12:42	MA	S	CONC
30	14039 MSD	JUN1101	WATERS2	06/11/01	12:48	MA	S	CONC
31	14040	JUN1101	WATERS2	06/11/01	12:55	MA	S	CONC
32	14041	JUN1101	WATERS2	06/11/01	13:01	MA	S	CONC
33	14016 1:4SD	JUN1101	WATERS2	06/11/01	13:07	MA	S	CONC
34	14016 1:1MSA	JUN1101	WATERS2	06/11/01	13:13	MA	S	CONC
35	ICV 2	JUN1101	WATERS2	06/11/01	13:22	MA	Q	CONC
36	ICB	JUN1101	WATERS2	06/11/01	13:28	MA	B	CONC
37	QMW0607014 1100	JUN1101	WATERS2	06/11/01	13:34	MA	S	CONC
38	QMW0607015 LCS	JUN1101	WATERS2	06/11/01	13:41	MA	S	CONC
39	QMW0607016 LCSD	JUN1101	WATERS2	06/11/01	13:47	MA	S	CONC
40	13683	JUN1101	WATERS2	06/11/01	13:53	MA	S	CONC
41	14279	JUN1101	WATERS2	06/11/01	13:59	MA	S	CONC
42	14303	JUN1101	WATERS2	06/11/01	14:05	MA	S	CONC
43	14303 D	JUN1101	WATERS2	06/11/01	14:11	MA	S	CONC

#	Element	STD'lank	STD8	STD8	STD3	STD4	STD2
1	Ag3280	-.00152	.09413	.66717			
2	Al3082	.01566			.09436		
3	As1890	.00017				.3112	
4	Ba4934	.00002					1.8295
5	Be3130	-.00125			1.88645		
6	Ca3179	.00126					.08211
7	Cd2265	-.00028					1.36526
8	Co2286	-.0005					.92599
9	Cr2677	.00007				.70165	
10	Cu3247	.00415					.45689
11	Fe2714	.00045			.03624		
12	K_7664	.0098					1.40095
13	Mg2790	-.00004					.04775
14	Mn2576	.0003					.7785
15	Ni2316	-.00093			.62873		
16	2203/1	-.00032					2.61417
17	2203/2	-.00249					2.46422
18	1960/1	-.01017				1.11259	
19	1960/2	.00249				.47406	
20	Sb2068	.00044			.34122		
21	Sn1899	-.00008			.28665		
22	Tl1908	-.00035			.11099		
23	V_2924	-.00001				.0139	
24	Zn2062	.00042					.27429
25	Pb2203						
26	Se1960						

#	Element	ICV 2	ICB	ICS A	ICS AB	SS I	SS I LOW
1	Ag3280	1.006	.0001	.0001	.3072	.0011	.0005
2	Al3082	Q.6157	-.2220	43.00	42.86	Q-.1930	-.2164
3	As1890	1.003	-.0073	Q-.0146	1.053	Q.0307	Q.0007
4	Ba4934	1.023	.0000	.0002	.3031	.0404	.0103
5	Be3130	.9857	.0000	.0000	.1033	.0010	.0003
6	Ca3179	1.001	-.0011	49.78	50.00	.0591	.0584
7	Cd2265	.9777	.0001	.0027	.2997	.0009	.0003
8	Co2286	.9910	.0001	.0010	.2959	.0102	.0027
9	Cr2677	.9965	-.0000	.0007	.3013	.0038	Q.0007
10	Cu3247	1.007	-.0006	Q.0296	.3366	.0043	.0006
11	Fe2714	Q1.099	.0002	49.46	49.62	Q.0613	.0411
12	K_7664	9.456	.0020	.1729	Q32.07	-.0423	-.0212
13	Mg2790	.9562	-.0021	51.19	51.01	-.0005	-.0013
14	Mn2576	1.001	-.0000	.0010	.2021	.0104	.0028
15	Ni2316	.9829	.0001	.0012	.2913	.0104	.0029
16	2203/1	.9809	.0025	.0197	1.027	.0118	.0032
17	2203/2	.9833	.0018	-.0027	1.004	.0119	.0039
18	1960/1	1.002	.0016	.0061	.5264	.0444	.0140
19	1960/2	1.010	.0016	.0049	.5307	.0428	.0124
20	Sb2068	.9810	.0024	.0114	1.040	.0106	.0022
21	Sn1899	.9743	.0020	.0029	1.035	.0013	.0010
22	Tl1908	1.005	-.0000	Q.0437	1.094	.0465	Q.0122
23	V_2924	.9880	.0007	-.0001	.3054	.0110	.0026

#	Element	ICV 2	ICB	ICS A	ICS AB	SS I	SS I LOW
24	Zn2062	.9706	-.0016	.0009	.2975	.0101	.0022
25	Pb2203	.9818	.0024	.0124	1.019	.0120	Q.0035
26	Se1960	1.005	.0017	.0056	.5277	.0440	Q.0136

#	Element	14028	14029	14030	14031	14032	14033
		11:14	11:19	11:24	11:26	11:33	11:37
1	Ag3280						
2	Al3082	114.9	1.298	12.15	11.60	17.79	36.17
3	As1890						
4	Ba4934						
5	Be3130						
6	Ca3179	136.2	112.4	110.1	110.7	93.17	53.65
7	Cd2265						
8	Co2286						
9	Cr2677						
10	Cu3247						
11	Fe2714	13.83	13.07	7.189	22.65	88.36	33.39
12	K_7664						
13	Mg2790	12.81	13.12	7.238	4.292	35.61	6.261
14	Mn2576						
15	Ni2316						
16	2203/1	.1158	.0133	.0137	.0200	.0902	.0694
17	2203/2	.0679	.0120	.0118	.0228	.0779	.0739
18	1960/1						
19	1960/2						
20	Sb2068						
21	Sn1899						
22	Tl1908						
23	V_2924						
24	Zn2062						
25	Pb2203	.1000	.0130	.0132	.0210	.0862	.0710
26	Se1960						

#	Element	14034	14035	14036	ICV 2	ICV 2	ICB
		11:42	11:47	11:51			
1	Ag3280					1.031	.0004
2	Al3082	158.4	88.50	31.93	Q.6713	Q.6628	-.1771
3	As1890					1.031	-.0055
4	Ba4934					1.018	.0002
5	Be3130					1.010	.0001
6	Ca3179	59.13	40.85	56.90	1.008	1.012	-.0055
7	Cd2265					.9817	.0002
8	Co2286					1.006	.0001
9	Cr2677					1.003	-.0003
10	Cu3247					1.031	-.0014
11	Fe2714	93.56	43.28	57.23	Q1.115	Q1.114	.0019
12	K_7664					9.803	-.1022
13	Mg2790	7.186	9.042	17.84	.9511	.9588	-.0080
14	Mn2576					1.015	.0001
15	Ni2316					.9811	-.0000
16	2203/1	.1884	.1031	.0704	1.011	1.016	.0006
17	2203/2	.1151	.0642	.0539	1.004	.9827	.0023

#	Element	14034	14035	14036	ICV 2	ICV 2	ICB
		11:42	11:47	11:51			
18	1960/1					1.026	.0025
19	1960/2					1.015	.0019
20	Sb2068					.9865	.0018
21	Sn1899					1.003	.0001
22	Tl1908					1.033	-.0005
23	V_2924					.9939	-.0000
24	Zn2062					.9629	-.0025
25	Pb2203	.1641	.0903	.0651	1.009	1.005	.0013
26	Se1960					1.022	.0024

#	Element	14037	14038	14039	14039 D	14039 MS	140' MSD
		12:18	12:24	12:30			
1	Ag3280	.0001	.0001	.0007	.0004	1.067	.8842
2	Al3082	23.99	5.134	-.0895	-.0570	4.535	3.355
3	As1890	-.0062	-.0065	-.0097	-.0094	1.088	.8145
4	Ba4934	.3580	.0784	.1199	.1135	1.127	.8595
5	Be3130	.0024	.0026	.0000	.0001	1.059	.7954
6	Ca3179	132.0	83.00	25.63	24.17	28.21	22.14
7	Cd2265	.0011	.0005	.0000	-.0001	1.024	.7909
8	Co2286	.0006	.0008	.0001	-.0001	1.047	.7855
9	Cr2677	.0397	.0154	.0014	.0010	1.033	.7820
10	Cu3247	.0282	.0141	.0042	.0023	1.081	.8178
11	Fe2714	28.40	12.20	2.440	2.293	7.425	5.703
12	K_7664	4.134	4.101	3.009	2.818	64.59	46.74
13	Mg2790	7.705	5.357	4.556	4.293	9.178	6.918
14	Mn2576	.4014	.0974	.0382	.0357	1.079	.8168
15	Ni2316	.0063	.0047	.0014	.0010	1.013	.7580
16	2203/1	.0405	.0325	.0014	.0015	1.070	.8258
17	2203/2	.0278	.0285	.0011	.0021	1.060	.8201
18	1960/1	.0058	.0002	.0023	.0013	1.045	.7672
19	1960/2	.0051	.0049	.0031	.0038	1.072	.8010
20	Sb2068	.0076	.0034	.0043	.0028	1.020	.7563
21	Sn1899	.0024	.0016	.0001	.0007	.0010	.0006
22	Tl1908	.0274	.0099	.0014	-.0005	1.109	.8700
23	V_2924	.0419	.0474	.0020	.0020	1.036	.7902
24	Zn2062	.0461	.1485	.0275	.0501	1.028 107	.7843 82
25	Pb2203	.0365	.0313	.0014	.0018	1.067	.8240
26	Se1960	.0055	.0018	.0027	.0022	1.054	.7786

#	Element	14040	14041	140':4SD	140'1MSA	ICV 2	ICB
		12:55	13:01				
1	Ag3280	-.0006	.0005	.0022	.2122	1.035	.0003
2	Al3082	13.86	-.0492	-.2868	.0191	Q.6603	-.1831
3	As1890	.0010	-.0088	-.0518	.1964	1.044	-.0054
4	Ba4934	.1088	.0010	.1161	.2503	1.002	.0002
5	Be3130	.0250	.0000	-.0000	.2141	1.030	.0002
6	Ca3179	91.93	.2148	24.68	99.34	1.037	-.0049
7	Cd2265	.0039	.0001	.0008	.1990	.9914	.0003
8	Co2286	.0724	.0002	.0003	.2064	1.019	.0004
9	Cr2677	.0151	.0007	-.0040	.2072	1.009	.0002
10	Cu3247	.0256	-.0017	-.0071	.2197	1.033	-.0022
11	Fe2714	56.48	.0384	2.307	4.377	Q1.159	-.0032

#	Element	14040	14041	140':4SD	140'1MSA	ICV 2	ICB
		12:55	13:01				
12	K_7664	4.344	.0989	2.593	3.868	9.841	-.0050
13	Mg2790	34.67	.0179	4.397	2.162	.9679	-.0026
14	Mn2576	.2509	.0008	.0399	.2803	1.024	.0001
15	Ni2316	.1444	.0013	.0026	.1982	.9805	.0009
16	2203/1	.0971	.0026	-.0093	.2134	1.033	.0017
17	2203/2	.0880	.0022	.0196	.2102	1.022	.0025
18	1960/1	.0041	.0052	.0290	.2085	1.017	.0045
19	1960/2	.0020	.0011	-.0084	.2122	1.040	.0002
20	Sb2068	.0059	.0008	-.0144	.2092	.9775	.0038
21	Sn1899	.0019	.0001	-.0043	.2121	1.022	.0005
22	Tl1908	.0551	.0017	.0116	.2166	1.052	.0009
23	V_2924	.0966	.0007	.0004	.2066	.9958	.0013
24	Zn2062	.0561	.0173	.0271	.2251	.9813	-.0026
25	Pb2203	.0942	.0026	.0010	.2126	1.030	.0021
26	Se1960	.0034	.0039	.0171	.2099	1.025	.0032

#	Element	QMW'1100	QMW' LCS	QMW'LCSD	13683	14279	14303
1	Ag3280	.0006	1.029	1.011	.0007	.0004	.0005
2	Al3082	-.0617	4.362	4.190	.4024	.4650	-.1270
3	As1890	-.0089	1.059	1.043	-.0100	-.0096	-.0125
4	Ba4934	.0024	.9978	.9771	.0145	.0597	.0122
5	Be3130	.0000	1.043	1.009	.0002	.0001	.0000
6	Ca3179	.0739	5.233	5.030	.5930	4.403	21.53
7	Cd2265	.0001	1.005	.9802	.0002	.0001	.0001
8	Co2286	.0001	1.030	1.006	.0006	.0134	.0000
9	Cr2677	.0002	1.010	.9884	.0013	.0083	.0021
10	Cu3247	.0010	1.063	1.042	-.0022	.0046	.0013
11	Fe2714	.0010	5.182	4.954	.0799	.9813	.0210
12	K_7664	.2489	58.51	57.20	.2146	1.341	5.493
13	Mg2790	.0106	5.027	4.813	.6472	2.086	6.719
14	Mn2576	.0005	1.028	1.005	.0075	.2321	.0089
15	Ni2316	.0007	.9877	.9665	.0017	.0086	.0011
16	2203/1	.0001	1.053	1.036	.0028	.0010	-.0008
17	2203/2	.0023	1.035	1.017	.0016	.0032	.0022
18	1960/1	.0022	1.032	1.012	.0022	.0048	.0038
19	1960/2	.0019	1.047	1.033	.0033	.0017	.0004
20	Sb2068	.0033	.9929	.9705	.0026	.0023	.0024
21	Sn1899	.0017	.0010	.0006	-.0007	-.0004	-.0006
22	Tl1908	.0008	1.077	1.060	.0047	.0029	.0016
23	V_2924	.0007	1.008	.9851	.0020	.0039	.0059
24	Zn2062	.0032	.9917	.9690	.0108	.0172	.0171
25	Pb2203	.0010	1.047	1.030	.0025	.0019	.0004
26	Se1960	.0022	1.037	1.019	.0027	.0038	.0028

#	Element	14303 D
1	Ag3280	.0005
2	Al3082	.4500
3	As1890	-.0100
4	Ba4934	.0123
5	Be3130	.0000

#	Element	14303 D
6	Ca3179	21.98
7	Cd2265	-.0001
8	Co2286	.0003
9	Cr2677	.0020
10	Cu3247	.0015
11	Fe2714	.0258
12	K_7664	5.629
13	Mg2790	6.859
14	Mn2576	.0166
15	Ni2316	.0010
16	2203/1	.0012
17	2203/2	.0013
18	1960/1	.0024
19	1960/2	.0009
20	Sb2068	.0038
21	Sn1899	.0013
22	Tl1908	.0027
23	V_2924	.0060
24	Zn2062	.0079
25	Pb2203	.0014
26	Se1960	.0020

TestAmerica
INCORPORATED

CASE NARRATIVE
June14, 2001

Client: ACCURA ANALYTICAL (2656)
ATTN: BONNIE HOGUE
6017 FINANCIAL DR.
NORCROSS, GA 30071
1-770-449-8800 ext. 233

Client Project: #27988
Laboratory Project: 239033
Date Received: 5/26/01

Matrix: Water
Number of samples : 15
Date Collected : 5/23/01 & 5/24/01

Sample Receipt Notes: Per enclosed Chain of Custody, samples were properly preserved and received in good condition on 5/26/01. There were no anomalies noted in sample log-in. Analyses were extracted and performed within method required holding times following Test Methods for Evaluating Solid Waste, Physical/Chemical Methods (SW-846). Package was completed as a 'Level IV' with 'TETRATEC' electronic deliverables.

QC Notes:

PAH by SW846/8310 – BATCH: 3139
Fifteen ground water samples (TA #'s 01-A71048-71062) were extracted and analyzed for PAH by Method SW846 8310. All QC calibrations were within method required QC limits. The method prep blank had no reported detection for analyte compounds. All surrogate recoveries were within required QC limit of 20-140%. The sample used for MS/MSD was Sample ID: 029-DMW13-Q2-01-12 of this sample delivery group. The MS/MSD had five out of the thirty-six spiked compounds outside the required QC limit for this QC batch. The %RPD had five of the spiked compounds outside the required QC limits. The Control was within historical QC limits. The QC was accepted for this batch.

PH by SW846/9040/150.1- Batch: 9619
Ten ground water samples (TA #'s 01-A71048-71057) were analyzed for PH by Method SW846 9040 150.1. A duplicate was performed on client sample # 029-SMW10-Q2-01-12 (TA # 01-A71057) yielding an acceptable RPD value. The pH meters used were calibrated to acceptable tolerances within method limits.

PH by SW846/9040/150.1- Batch: 9620
Five ground water samples (TA #'s 01-A71058-71062) were analyzed for PH by Method SW846 9040 150.1. A duplicate was performed on client sample # 029-EQB-Q2-01-12 (TA # 01-A71062) yielding an acceptable RPD value. The pH meters used were calibrated to acceptable tolerances within method limits.

If you have any questions as you review this package, please call me at 1-800-765-0980.

Thanks

Glenn L. Norton
Technical Services
TestAmerica, Inc. - Nashville

ACCURA ANALYTICAL LABORATORY, INC.

Environmental Analytical Services

239033

SUBCONTRACTOR CHAIN OF CUSTODY

SUBCONTRACTED TO: **TEST AMERICA, INC.**

Subcontracted by: ACCURA ANALYTICAL LABORATORY, INC **(Acct# 2656)**

Address: 6017 Financial Drive, Norcross, GA 30071

Accura Lab Contact Name: Ms. Bonnie Hogue

Contact Phone # (770) 449 - 8800, ext. ~~233~~ 216

Fax Number: (770) 449 - 5477

AAL PROJECT #: 27988

Quote Number: 030100102199

For Laboratory Use Only

Custody Seal: Y N

Page 1 OF 2

QC Level: N 1 2 3 4

Init/Temp:

Entered into LIMS:

LAB Project #

Sample Condition:

*CCI-Level C See Attached

5/25/01 Dig

AAL #	Sample Date / Time	Comp	Grab	Matrix	Preserved	Station Location:	No. of Containers	PAH by 8310*								Remarks	LAB #
AC	5-23-01 / 0820		✓	W		029-SMW01-Q2-01-12	2	2								* Also Report:	01A71048
AC	5-24-01 / 0800		✓	W		029-SMW02-Q2-01-12	↓	2								1-Methylnaphthalene	49
AC	05-23-01 / 1005		✓	W		029-SMW03-Q2-01-12	↓	2								2-Methylnaphthalene	50
AC	↓ 1510		✓	W		029-SMW04-Q2-01-12	1	1									51
AC	↓ 1105		✓	W		029-SMW05-Q2-01-12	2	2									52
AC	05-24-01 / 1020		✓	W		029-SMW06-Q2-01-12	↓	2									53
AC	↓ 0935		✓	W		029-SMW07-Q2-01-12	↓	2									54
AC	↓ 0905		✓	W		029-SMW08-Q2-01-12	↓	2									55
AC	↓ 1120		✓	W		029-SMW09-Q2-01-12	↓	2									56
AC	↓ 1040		✓	W		029-SMW10-Q2-01-12	↓	2									71057

Relinquished By:	Date / Time	Received By:	Date / Time	Special Requirements Or Remarks:
[signature]	5/25/01 17:45	Fed Ex	5/25/01 17:45	**PLEASE FAX RESULTS!!**
Fed Ex 5/25/01	Date / Time	Received By: [signature]	Date / Time 5-26-01 / 0900	Turnaround Time Requested: 14 day preliminary - 21 day final

Matrix Guide: (S = Soil) (W = Water) (L = Liquid) (C = Cartridge) (SL = Sludge) (A = Air Sample) (F = Foods) (M = Miscellaneous) (D = Digestate)

TestAmerica-sub-coc (1)
Revised 05/10/97

ACCURA ANALYTICAL LABORATORY, INC.

Environmental Analytical Services

239033

SUBCONTRACTOR CHAIN OF CUSTODY

SUBCONTRACTED TO: **TEST AMERICA, INC.**

Subcontracted by: ACCURA ANALYTICAL LABORATORY, INC **(Acct# 2656)**

Address: 6017 Financial Drive, Norcross, GA 30071

Accura Lab Contact Name: Ms. Bonnie Hogue

Contact Phone # (770) 449 - 8800, ext. ~~253~~ 216

Fax Number: (770) 449 - 5477

AAL PROJECT #: 27988

5/25/01 DJ

Quote Number: 030100102199

For Laboratory Use Only

Custody Seal: Y N

Page 2 OF 2

QC Level: N 1 2 3 4

Init/Temp:

Entered into LIMS:

LAB Project #

Sample Condition:

* CCI-Level C See Attached

AAL #	Sample Date / Time	Comp	Grab	Matrix	Preserved	Station Location:	No. of Containers	PAH by 8310 *								Remarks	LAB #
AC	5-23-01 / 1550		✓	W		029-SMW11-Q2-01-12	2	2								* Also report 1-Methylnaphthalene 01A 71858	
AC	↓ 0925		✓	W		029-SMW12-Q2-01-12	↓	2								2-Methylnaphthalene	59
~~AC~~						~~029-SMW13~~											
AC	5-23-01 / 1330		✓	W		029-DMW01-Q2-01-12	6	6								MS/MSD	60
AC	5-24-01 / —		✓	W		029-DUP-Q2-01-12	2	2									61
AC	↓ 1050		✓	W		029-EQB-Q2-01-12	↓	2									71062
AC																	
AC																	
AC																	
AC																	

Relinquished By:	Date / Time	Received By:	Date / Time	Special Requirements Or Remarks:
David Fuller	5/25/01 17:45	Fed Ex	5/25/01 17:45	**PLEASE FAX RESULTS!!**
Relinquished By: Fed Ex	Date / Time	Received By:	Date / Time	Turnaround Time Requested: 14 day preliminary - 21 day final

Matrix Guide: (S = Soil) (W = Water) (L = Liquid) (C = Cartridge) (SL = Sludge) (A = Air Sample) (F = Foods) (M = Miscellaneous) (D = Digestate)

TestAmerica-SUB-COC (1)
Revised 05/10/97

TESTAMERICA,INC.-NASHVILLE

COOLER RECEIPT FORM

Client: Accon Anly. Lab., Inc. BC# 236033

Cooler Received On: 5-26-01 And Opened On: 5-26-01 By: Mike McBride

(Signature)

1. Temperature of Cooler when opened 2° Degrees Celsius
2. Were custody seals on outside of cooler?.....YES..(NO)
   a. If yes, how many, what kind and where:_____
3. Were custody seals on containers and intact?.....(NO)..YES
4. Were the seals intact, signed, and dated correctly?.....~~YES...NO~~
5. Were custody papers inside cooler?.....(YES)..NO
6. Were custody papers properly filled out (ink,signed,etc)?.....(YES)..NO
7. Did you sign the custody papers in the appropriate place?.....(YES)..NO
8. What kind of packing material used? (Bubblewrap) Peanuts Vermiculite Other None
9. Was sufficient ice used (if appropriate)?.....(YES)..NO
10. Did all bottles arrive in good condition(unbroken)?.....(YES)..NO
11. Were all bottle labels complete (#,date,signed,pres,etc)?.....(YES)..NO
12. Did all bottle labels and tags agree with custody papers?.....(YES)..NO
13. Were correct bottles used for the analysis requested?.....(YES)..NO
14. a. Were VOA vials received?.....YES..(NO)
    b. Was there any observable head space present in any VOA vial?.....~~NO...YES~~
15. Was sufficient amount of sample sent in each bottle?.....(YES)..NO
16. Were correct preservatives used?.....~~YES...NO~~
17. Was residual chlorine present?.....(NO)..YES
18. Corrective action taken, if necessary:

    See attached for resolution

PAH'S by SW846/8310

SUMMARY DATA

TESTAMERICA, INC
2960 FOSTER CREIGHTON DRIVE
NASHVILLE, TN 37204
1-800-765-0980

TestAmerica
INCORPORATED

Sample Identification

BLANK

Matrix: Water
% Dry Weight:
Units: UG/L
Dilution Factor: 1
Analysis Method: SW8310
Delivery Group: 239033
Instrument:
Vol Extracted: 1000 ml
Extract Vol: 1.0 ml

Lab Sample ID: BLANK
Date Sampled: 5/23/01
Date Received: 5/26/01
Analysis Date: 6/ 8/01
Analysis Time: 10:14
Sample QC Group: 3139

Extraction Date:

FORM I

CAS NUMBER	ANALYTE	CONCENTRATION		FLAG
91-20-3	Naphthalene	1.00	....	U
208-96-8	Acenaphthene	0.20	....	U
120-12-7	Anthracene	0.25	....	U
206-44-0	Fluoranthene	0.20	....	U
86-73-7	Fluorene	0.20	....	U
129-00-0	Pyrene	0.20	....	U
56-55-3	Benzo(a)anthracene	0.05	....	U
50-32-8	Benzo(a)pyrene	0.10	....	U
205-99-2	Benzo(b)fluoranthene	0.18	....	U
207-08-9	Benzo(k)fluoranthene	0.17	....	U
218-01-9	Chrysene	0.15	....	U
53-70-3	Dibenzo(a,h)anthracene	0.20	....	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.40	....	U
208-96-8	Acenaphthylene	0.20	....	U
191-24-2	Benzo(g,h,i)perylene	0.20	....	U
85-01-8	Phenanthrene	0.20	....	U
90-12-0	1-Methylnapthalene	1.00	....	U
91-57-6	2-Methylnaphthalene	1.00	....	U

TestAmerica
INCORPORATED

Sample Identification

029-SMW01-Q2-01-12

Matrix: Water
pH:
Units: ug/l
Dilution Factor: 1.
Analysis Method: SW8310
Delivery Group: 239033
Instrument:
Vol Extracted: 990. ml
Extract Vol: 1.00 ml

Lab Sample ID: 01-A71048
Date Sampled:: 5/23/01
Date Received: 5/26/01
Analysis Date: 6/ 8/01
Analysis Time: 10:14
Sample QC Group: 3139

Extraction Date: 5/29/01

FORM I

CAS NUMBER	ANALYTE	CONCENTRATION	FLAG
91-20-3	Naphthalene	1.01	U
208-96-8	Acenaphthene	0.2	U
120-12-7	Anthracene	0.25	U
206-44-0	Fluoranthene	0.2	U
86-73-7	Fluorene	0.2	U
129-00-0	Pyrene	0.2	U
56-55-3	Benzo(a)anthracene	0.05	U
50-32-8	Benzo(a)pyrene	0.1	U
205-99-2	Benzo(b)fluoranthene	0.18	U
207-08-9	Benzo(k)fluoranthene	0.17	U
218-01-9	Chrysene	0.15	U
53-70-3	Dibenzo(a,h)anthracene	0.2	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.4	U
208-96-8	Acenaphthylene	0.2	U
191-24-2	Benzo(g,h,i)perylene	0.2	U
85-01-8	Phenanthrene	0.2	U
90-12-0	1-Methylnapthalene	1.01	U
91-57-6	2-Methylnaphthalene	1.01	U

TestAmerica
INCORPORATED

Sample Identification

029-SMW02-Q2-01-12

Matrix: Water
pH:
Units: ug/l
Dilution Factor: 1.
Analysis Method: SW8310
Delivery Group: 239033
Instrument:
Vol Extracted: 990. ml
Extract Vol: 1.00 ml

Lab Sample ID: 01-A71049
Date Sampled:: 5/24/01
Date Received: 5/26/01
Analysis Date: 6/ 8/01
Analysis Time: 10:14
Sample QC Group: 3139

Extraction Date: 5/29/01

FORM I

CAS NUMBER	ANALYTE	CONCENTRATION	FLAG
91-20-3	Naphthalene	1.01	U
208-96-8	Acenaphthene	0.2	U
120-12-7	Anthracene	0.25	U
206-44-0	Fluoranthene	0.2	U
86-73-7	Fluorene	0.2	U
129-00-0	Pyrene	0.2	U
56-55-3	Benzo(a)anthracene	0.05	U
50-32-8	Benzo(a)pyrene	0.1	U
205-99-2	Benzo(b)fluoranthene	0.18	U
207-08-9	Benzo(k)fluoranthene	0.17	U
218-01-9	Chrysene	0.15	U
53-70-3	Dibenzo(a,h)anthracene	0.2	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.4	U
208-96-8	Acenaphthylene	0.2	U
191-24-2	Benzo(g,h,i)perylene	0.2	U
85-01-8	Phenanthrene	0.2	U
90-12-0	1-Methylnapthalene	1.01	U
91-57-6	2-Methylnaphthalene	1.01	U

TestAmerica
INCORPORATED

Sample Identification

029-SMW03-Q2-01-12

Matrix: Water
pH:
Units: ug/l
Dilution Factor: 1.
Analysis Method: SW8310
Delivery Group: 239033
Instrument:
Vol Extracted: 990. ml
Extract Vol: 1.00 ml

Lab Sample ID: 01-A71050
Date Sampled:: 5/23/01
Date Received: 5/26/01
Analysis Date: 6/ 8/01
Analysis Time: 10:14
Sample QC Group: 3139

Extraction Date: 5/29/01

FORM I

CAS NUMBER	ANALYTE	CONCENTRATION	FLAG
91-20-3	Naphthalene	1.01	U
208-96-8	Acenaphthene	0.2	U
120-12-7	Anthracene	0.25	U
206-44-0	Fluoranthene	0.2	U
86-73-7	Fluorene	0.2	U
129-00-0	Pyrene	0.2	U
56-55-3	Benzo(a)anthracene	0.05	U
50-32-8	Benzo(a)pyrene	0.1	U
205-99-2	Benzo(b)fluoranthene	0.18	U
207-08-9	Benzo(k)fluoranthene	0.17	U
218-01-9	Chrysene	0.15	U
53-70-3	Dibenzo(a,h)anthracene	0.2	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.4	U
208-96-8	Acenaphthylene	0.2	U
191-24-2	Benzo(g,h,i)perylene	0.2	U
85-01-8	Phenanthrene	0.2	U
90-12-0	1-Methylnapthalene	1.01	U
91-57-6	2-Methylnaphthalene	1.01	U

TestAmerica
INCORPORATED

Sample Identification

029-SMW04-Q2-01-12

Matrix: Water
pH:
Units: ug/l
Dilution Factor: 1.
Analysis Method: SW8310
Delivery Group: 239033
Instrument:
Vol Extracted: 920. ml
Extract Vol: 1.00 ml

Lab Sample ID: 01-A71051
Date Sampled:: 5/23/01
Date Received: 5/26/01
Analysis Date: 6/ 8/01
Analysis Time: 10:14
Sample QC Group: 3139

Extraction Date: 5/29/01

FORM I

CAS NUMBER	ANALYTE	CONCENTRATION	FLAG
91-20-3	Naphthalene	1.09	U
208-96-8	Acenaphthene	0.22	U
120-12-7	Anthracene	0.27	U
206-44-0	Fluoranthene	0.22	U
86-73-7	Fluorene	0.22	U
129-00-0	Pyrene	0.22	U
56-55-3	Benzo(a)anthracene	0.05	U
50-32-8	Benzo(a)pyrene	0.11	U
205-99-2	Benzo(b)fluoranthene	0.2	U
207-08-9	Benzo(k)fluoranthene	0.18	U
218-01-9	Chrysene	0.16	U
53-70-3	Dibenzo(a,h)anthracene	0.22	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.43	U
208-96-8	Acenaphthylene	0.22	U
191-24-2	Benzo(g,h,i)perylene	0.22	U
85-01-8	Phenanthrene	0.22	U
90-12-0	1-Methylnapthalene	1.09	U
91-57-6	2-Methylnaphthalene	1.09	U

TestAmerica
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Sample Identification

029-SMW05-Q2-01-12

Matrix: Water
pH:
Units: ug/l
Dilution Factor: 1.
Analysis Method: SW8310
Delivery Group: 239033
Instrument:
Vol Extracted: 920. ml
Extract Vol: 1.00 ml

Lab Sample ID: 01-A71052
Date Sampled:: 5/23/01
Date Received: 5/26/01
Analysis Date: 6/ 8/01
Analysis Time: 10:14
Sample QC Group: 3139

Extraction Date: 5/29/01

FORM I

CAS NUMBER	ANALYTE	CONCENTRATION	FLAG
91-20-3	Naphthalene	1.09	U
208-96-8	Acenaphthene	0.22	U
120-12-7	Anthracene	0.27	U
206-44-0	Fluoranthene	0.22	U
86-73-7	Fluorene	0.22	U
129-00-0	Pyrene	0.22	U
56-55-3	Benzo(a)anthracene	0.05	U
50-32-8	Benzo(a)pyrene	0.11	U
205-99-2	Benzo(b)fluoranthene	0.2	U
207-08-9	Benzo(k)fluoranthene	0.18	U
218-01-9	Chrysene	0.16	U
53-70-3	Dibenzo(a,h)anthracene	0.22	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.43	U
208-96-8	Acenaphthylene	0.22	U
191-24-2	Benzo(g,h,i)perylene	0.22	U
85-01-8	Phenanthrene	0.22	U
90-12-0	1-Methylnapthalene	1.09	U
91-57-6	2-Methylnaphthalene	1.09	U

TestAmerica
INCORPORATED

Sample Identification

029-SMW06-Q2-01-12

Matrix: Water
pH:
Units: ug/l
Dilution Factor: 1.
Analysis Method: SW8310
Delivery Group: 239033
Instrument:
Vol Extracted: 990. ml
Extract Vol: 1.00 ml

Lab Sample ID: 01-A71053
Date Sampled:: 5/24/01
Date Received: 5/26/01
Analysis Date: 6/ 8/01
Analysis Time: 10:14
Sample QC Group: 3139

Extraction Date: 5/29/01

FORM I

CAS NUMBER	ANALYTE	CONCENTRATION	FLAG
91-20-3	Naphthalene	1.01	U
208-96-8	Acenaphthene	0.2	U
120-12-7	Anthracene	0.25	U
206-44-0	Fluoranthene	0.2	U
86-73-7	Fluorene	0.2	U
129-00-0	Pyrene	0.2	U
56-55-3	Benzo(a)anthracene	0.05	U
50-32-8	Benzo(a)pyrene	0.1	U
205-99-2	Benzo(b)fluoranthene	0.18	U
207-08-9	Benzo(k)fluoranthene	0.17	U
218-01-9	Chrysene	0.15	U
53-70-3	Dibenzo(a,h)anthracene	0.2	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.4	U
208-96-8	Acenaphthylene	0.2	U
191-24-2	Benzo(g,h,i)perylene	0.2	U
85-01-8	Phenanthrene	0.2	U
90-12-0	1-Methylnapthalene	1.01	U
91-57-6	2-Methylnaphthalene	1.01	U

TestAmerica
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Sample Identification

029-SMW07-Q2-01-12

Matrix: Water
pH:
Units: ug/l
Dilution Factor: 1.
Analysis Method: SW8310
Delivery Group: 239033
Instrument:
Vol Extracted: 960. ml
Extract Vol: 1.00 ml

Lab Sample ID: 01-A71054
Date Sampled:: 5/24/01
Date Received: 5/26/01
Analysis Date: 6/ 8/01
Analysis Time: 10:14
Sample QC Group: 3139

Extraction Date: 5/29/01

FORM I

CAS NUMBER	ANALYTE	CONCENTRATION	FLAG
91-20-3	Naphthalene	1.04	U
208-96-8	Acenaphthene	0.21	U
120-12-7	Anthracene	0.25	U
206-44-0	Fluoranthene	0.21	U
86-73-7	Fluorene	0.21	U
129-00-0	Pyrene	0.21	U
56-55-3	Benzo(a)anthracene	0.05	U
50-32-8	Benzo(a)pyrene	0.1	U
205-99-2	Benzo(b)fluoranthene	0.19	U
207-08-9	Benzo(k)fluoranthene	0.18	U
218-01-9	Chrysene	0.16	U
53-70-3	Dibenzo(a,h)anthracene	0.21	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.42	U
208-96-8	Acenaphthylene	0.21	U
191-24-2	Benzo(g,h,i)perylene	0.21	U
85-01-8	Phenanthrene	0.21	U
90-12-0	1-Methylnapthalene	1.04	U
91-57-6	2-Methylnaphthalene	1.04	U

TestAmerica
INCORPORATED

Sample Identification

029-SMW08-Q2-01-12

Matrix: Water
pH:
Units: ug/l
Dilution Factor: 1.
Analysis Method: SW8310
Delivery Group: 239033
Instrument:
Vol Extracted: 1000 ml
Extract Vol: 1.00 ml

Lab Sample ID: 01-A71055
Date Sampled:: 5/24/01
Date Received: 5/26/01
Analysis Date: 6/ 8/01
Analysis Time: 10:14
Sample QC Group: 3139

Extraction Date: 5/29/01

FORM I

CAS NUMBER	ANALYTE	CONCENTRATION	FLAG
91-20-3	Naphthalene	1	U
208-96-8	Acenaphthene	0.2	U
120-12-7	Anthracene	0.25	U
206-44-0	Fluoranthene	0.2	U
86-73-7	Fluorene	0.2	U
129-00-0	Pyrene	0.2	U
56-55-3	Benzo(a)anthracene	0.05	U
50-32-8	Benzo(a)pyrene	0.1	U
205-99-2	Benzo(b)fluoranthene	0.26	
207-08-9	Benzo(k)fluoranthene	0.17	U
218-01-9	Chrysene	0.15	U
53-70-3	Dibenzo(a,h)anthracene	0.2	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.4	U
208-96-8	Acenaphthylene	0.2	U
191-24-2	Benzo(g,h,i)perylene	0.02	U
85-01-8	Phenanthrene	0.2	U
90-12-0	1-Methylnapthalene	1	U
91-57-6	2-Methylnaphthalene	1	U

TestAmerica
INCORPORATED

Sample Identification

029-SMW09-Q2-01-12

Matrix: Water
pH:
Units: ug/l
Dilution Factor: 1.
Analysis Method: SW8310
Delivery Group: 239033
Instrument:
Vol Extracted: 980. ml
Extract Vol: 1.00 ml

Lab Sample ID: 01-A71056
Date Sampled:: 5/24/01
Date Received: 5/26/01
Analysis Date: 6/ 8/01
Analysis Time: 10:14
Sample QC Group: 3139

Extraction Date: 5/29/01

FORM I

CAS NUMBER	ANALYTE	CONCENTRATION	FLAG
91-20-3	Naphthalene	1.02	U
208-96-8	Acenaphthene	0.2	U
120-12-7	Anthracene	0.25	U
206-44-0	Fluoranthene	0.2	U
86-73-7	Fluorene	0.2	U
129-00-0	Pyrene	0.2	U
56-55-3	Benzo(a)anthracene	0.5	U
50-32-8	Benzo(a)pyrene	0.1	U
205-99-2	Benzo(b)fluoranthene	0.18	U
207-08-9	Benzo(k)fluoranthene	0.17	U
218-01-9	Chrysene	0.15	U
53-70-3	Dibenzo(a,h)anthracene	0.2	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.4	U
208-96-8	Acenaphthylene	0.2	U
191-24-2	Benzo(g,h,i)perylene	0.2	U
85-01-8	Phenanthrene	0.2	U
90-12-0	1-Methylnapthalene	1.02	U
91-57-6	2-Methylnaphthalene	1.02	U

TestAmerica
INCORPORATED

Sample Identification

029-SMW10-Q2-01-12

Matrix: Water
pH:
Units: ug/l
Dilution Factor: 1.
Analysis Method: SW8310
Delivery Group: 239033
Instrument:
Vol Extracted: 1000 ml
Extract Vol: 1.00 ml

Lab Sample ID: 01-A71057
Date Sampled:: 5/24/01
Date Received: 5/26/01
Analysis Date: 6/ 8/01
Analysis Time: 10:14
Sample QC Group: 3139

Extraction Date: 5/29/01

FORM I

CAS NUMBER	ANALYTE	CONCENTRATION	FLAG
91-20-3	Naphthalene	1	U
208-96-8	Acenaphthene	0.2	U
120-12-7	Anthracene	0.25	U
206-44-0	Fluoranthene	0.2	U
86-73-7	Fluorene	0.2	U
129-00-0	Pyrene	0.2	U
56-55-3	Benzo(a)anthracene	0.05	U
50-32-8	Benzo(a)pyrene	0.1	U
205-99-2	Benzo(b)fluoranthene	0.18	U
207-08-9	Benzo(k)fluoranthene	0.17	U
218-01-9	Chrysene	0.15	U
53-70-3	Dibenzo(a,h)anthracene	0.2	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.4	U
208-96-8	Acenaphthylene	0.2	U
191-24-2	Benzo(g,h,i)perylene	0.2	U
85-01-8	Phenanthrene	0.2	U
90-12-0	1-Methylnapthalene	1	U
91-57-6	2-Methylnaphthalene	1	U

TestAmerica
INCORPORATED

Sample Identification

029-SMW11-Q2-01-12

Matrix: Water
pH:
Units: ug/l
Dilution Factor: 1.
Analysis Method: SW8310
Delivery Group: 239033
Instrument:
Vol Extracted: 980. ml
Extract Vol: 1.00 ml

Lab Sample ID: 01-A71058
Date Sampled:: 5/23/01
Date Received: 5/26/01
Analysis Date: 6/ 8/01
Analysis Time: 10:14
Sample QC Group: 3139

Extraction Date: 5/29/01

FORM I

CAS NUMBER	ANALYTE	CONCENTRATION	FLAG
91-20-3	Naphthalene	18.4	
208-96-8	Acenaphthene	0.2	U
120-12-7	Anthracene	0.25	U
206-44-0	Fluoranthene	0.2	U
86-73-7	Fluorene	0.2	U
129-00-0	Pyrene	0.2	U
56-55-3	Benzo(a)anthracene	0.05	U
50-32-8	Benzo(a)pyrene	0.1	U
205-99-2	Benzo(b)fluoranthene	0.18	U
207-08-9	Benzo(k)fluoranthene	0.17	U
218-01-9	Chrysene	0.15	U
53-70-3	Dibenzo(a,h)anthracene	0.2	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.41	U
208-96-8	Acenaphthylene	0.2	U
191-24-2	Benzo(g,h,i)perylene	0.2	U
85-01-8	Phenanthrene	0.2	U
90-12-0	1-Methylnapthalene	10.9	
91-57-6	2-Methylnaphthalene	7.88	

TestAmerica
INCORPORATED

Sample Identification

029-SMW12-Q2-01-12

Matrix: Water
pH:
Units: ug/l
Dilution Factor: 1.
Analysis Method: SW8310
Delivery Group: 239033
Instrument:
Vol Extracted: 990. ml
Extract Vol: 1.00 ml

Lab Sample ID: 01-A71059
Date Sampled:: 5/23/01
Date Received: 5/26/01
Analysis Date: 6/ 8/01
Analysis Time: 10:14
Sample QC Group: 3139

Extraction Date: 5/29/01

FORM I

CAS NUMBER	ANALYTE	CONCENTRATION	FLAG
91-20-3	Naphthalene	1.01	U
208-96-8	Acenaphthene	0.2	U
120-12-7	Anthracene	0.25	U
206-44-0	Fluoranthene	0.2	U
86-73-7	Fluorene	0.2	U
129-00-0	Pyrene	0.2	U
56-55-3	Benzo(a)anthracene	0.5	U
50-32-8	Benzo(a)pyrene	0.1	U
205-99-2	Benzo(b)fluoranthene	0.18	U
207-08-9	Benzo(k)fluoranthene	0.17	U
218-01-9	Chrysene	0.15	U
53-70-3	Dibenzo(a,h)anthracene	0.2	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.4	U
208-96-8	Acenaphthylene	0.2	U
191-24-2	Benzo(g,h,i)perylene	0.2	U
85-01-8	Phenanthrene	0.2	U
90-12-0	1-Methylnapthalene	1.01	U
91-57-6	2-Methylnaphthalene	1.01	U

TestAmerica
INCORPORATED

Sample Identification

029-DMW01-Q2-01-12

Matrix: Water
pH:
Units: ug/l
Dilution Factor: 1.
Analysis Method: SW8310
Delivery Group: 239033
Instrument:
Vol Extracted: 990. ml
Extract Vol: 1.00 ml

Lab Sample ID: 01-A71060
Date Sampled:: 5/23/01
Date Received: 5/26/01
Analysis Date: 6/ 8/01
Analysis Time: 10:14
Sample QC Group: 3139

Extraction Date: 5/29/01

FORM I

CAS NUMBER	ANALYTE	CONCENTRATION	FLAG
91-20-3	Naphthalene	1.01	U
208-96-8	Acenaphthene	0.2	U
120-12-7	Anthracene	0.25	U
206-44-0	Fluoranthene	0.2	U
86-73-7	Fluorene	0.2	U
129-00-0	Pyrene	0.2	U
56-55-3	Benzo(a)anthracene	0.05	U
50-32-8	Benzo(a)pyrene	0.1	U
205-99-2	Benzo(b)fluoranthene	0.18	U
207-08-9	Benzo(k)fluoranthene	0.17	U
218-01-9	Chrysene	0.15	U
53-70-3	Dibenzo(a,h)anthracene	0.2	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.4	U
208-96-8	Acenaphthylene	0.2	U
191-24-2	Benzo(g,h,i)perylene	0.2	U
85-01-8	Phenanthrene	0.2	U
90-12-0	1-Methylnapthalene	1.01	U
91-57-6	2-Methylnaphthalene	1.01	U

TestAmerica
INCORPORATED

Sample Identification

029-DUP-Q2-01-12

Matrix: Water
pH:
Units: ug/l
Dilution Factor: 1.
Analysis Method: SW8310
Delivery Group: 239033
Instrument:
Vol Extracted: 980. ml
Extract Vol: 1.00 ml

Lab Sample ID: 01-A71061
Date Sampled:: 5/24/01
Date Received: 5/26/01
Analysis Date: 6/ 8/01
Analysis Time: 10:14
Sample QC Group: 3139

Extraction Date: 5/29/01

FORM I

CAS NUMBER	ANALYTE	CONCENTRATION	FLAG
91-20-3	Naphthalene	1.02	U
208-96-8	Acenaphthene	0.2	U
120-12-7	Anthracene	0.25	U
206-44-0	Fluoranthene	0.2	U
86-73-7	Fluorene	0.2	U
129-00-0	Pyrene	0.2	U
56-55-3	Benzo(a)anthracene	0.05	U
50-32-8	Benzo(a)pyrene	0.1	U
205-99-2	Benzo(b)fluoranthene	0.18	U
207-08-9	Benzo(k)fluoranthene	0.17	U
218-01-9	Chrysene	0.15	U
53-70-3	Dibenzo(a,h)anthracene	0.2	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.4	U
208-96-8	Acenaphthylene	0.2	U
191-24-2	Benzo(g,h,i)perylene	0.2	U
85-01-8	Phenanthrene	0.2	U
90-12-0	1-Methylnapthalene	1.02	U
91-57-6	2-Methylnaphthalene	1.02	U

TestAmerica
INCORPORATED

Sample Identification

029-EQB-Q2-01-12

Matrix: Water
pH:
Units: ug/l
Dilution Factor: 1.
Analysis Method: SW8310
Delivery Group: 239033
Instrument:
Vol Extracted: 920. ml
Extract Vol: 1.00 ml

Lab Sample ID: 01-A71062
Date Sampled:: 5/24/01
Date Received: 5/26/01
Analysis Date: 6/ 8/01
Analysis Time: 10:14
Sample QC Group: 3139

Extraction Date: 5/29/01

FORM I

CAS NUMBER	ANALYTE	CONCENTRATION	FLAG
91-20-3	Naphthalene	1.09	U
208-96-8	Acenaphthene	0.21	U
120-12-7	Anthracene	0.27	U
206-44-0	Fluoranthene	0.21	U
86-73-7	Fluorene	0.21	U
129-00-0	Pyrene	0.21	U
56-55-3	Benzo(a)anthracene	0.5	U
50-32-8	Benzo(a)pyrene	0.11	U
205-99-2	Benzo(b)fluoranthene	0.2	U
207-08-9	Benzo(k)fluoranthene	0.18	U
218-01-9	Chrysene	0.16	U
53-70-3	Dibenzo(a,h)anthracene	0.21	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.43	U
208-96-8	Acenaphthylene	0.21	U
191-24-2	Benzo(g,h,i)perylene	0.21	U
85-01-8	Phenanthrene	0.21	U
90-12-0	1-Methylnapthalene	1.09	U
91-57-6	2-Methylnaphthalene	1.09	U

2A

8310 PAH SURROGATE RECOVERY SUMMARY

Lab Name: Test America

SDG # 239033

	SAMPLE NO	Surrogat % Recovery	TOT OUT
01	BLANK W	91	0
02	029-DMW13-Q2-01-12 MS	79	0
03	029-DMW13-Q2-01-12 MSD	67	0
04	CONTROL W	96	0
05	029-SMW01-Q2-01-12	82	0
06	029-SMW02-Q2-01-12	55	0
07	029-SMW03-Q2-01-12	68	0
08	029-SMW04-Q2-01-12	42	0
09	029-SMW05-Q2-01-12	72	0
10	029-SMW06-Q2-01-12	55	0
11	029-SMW07-Q2-01-12	52	0
12	029-SMW08-Q2-01-12	35	0
13	029-SMW09-Q2-01-12	41	0
14	029-SMW10-Q2-01-12	45	0
15	029-SMW11-Q2-01-12	60	0
16	029-SMW12-Q2-01-12	47	0
17	029-DMW13-Q2-01-12	69	0
18	029-DUP-Q2-01-12	51	0
19	029-EQB-Q2-01-12	58	0
20			
21			
22			
23			
24			
25			
26			
30			

QC LIMITS: 20-140

Surrogate used: P-Terphenyl d-14

(+): Surrogate not determined due to interference

*** Values outside of contract required QC limits**

D System Monitoring Compound diluted out

3C

8310 PAH MATRIX SPIKE/SPIKE DUPLICATE SUMMARY

Lab Name : Test America **Matrix Spike No:** 029-DMW13-Q2-01-1

SDG # 239033

COMPOUND	Spike Added ug/L	Sample Concen ug/L	MS REC ug/L	MS %		QC Limits REC	
Napthalene	1.00	0.0	0.940	94.0		19-128	
Acenapthylene	1.00	0.0	0.750	75.0		19-139	
1-Methyl-naphthalene	1.00	0.0	0.980	98.0		60-140	
2-Methyl-naphthalene	1.00	0.0	1.040	104.0		60-140	
Acenapthene	1.00	0.0	0.710	71.0		43-130	
Flourene	1.00	0.0	0.830	83.0		19-131	
Phenanthrene	1.00	0.0	1.010	101.0		19-131	
Anthracene	1.00	0.0	0.610	61.0		41-117	
Flouranthene	1.00	0.0	0.560	56.0		44-130	
Pyrene	1.00	0.0	0.660	66.0		41-132	
Benzo(a)anthracene	1.00	0.0	0.430	43.0		35-119	
Chrysene	1.00	0.0	0.440	44.0		42-123	
Benzo(b)flouranthene	1.00	0.0	0.430	43.0		45-123	*
Benzo(k)flouranthene	1.00	0.0	0.350	35.0		42-122	*
Benzo(a)pyrene	1.00	0.0	0.370	37.0		12-125	
Dibenz(ah)anthracene	1.00	0.0	0.290	29.0		27-145	
Benzo(ghi)Perylene	1.00	0.0	0.290	29.0		36-138	*
Indeno(123cd)pyrene	1.00	0.0	0.320	32.0		42-126	*

COMPOUND	Spike Added ug/L	MSD REC ug/L	MSD %	RPD % RPD	RPD Limit	QC Limits %REC	
Napthalene	1.00	0.800	80.0	16	20	19-128	
Acenapthylene	1.00	0.710	71.0	5	29	43-138	
1-Methyl-naphthalene	1.00	0.820	82.0	18	20	60-140	
2-Methyl-naphthalene	1.00	0.900	90.0	14	20	60-140	
Acenapthene	1.00	0.640	64.0	10	31	43-130	
Flourene	1.00	0.710	71.0	16	24	19-131	
Phenanthrene	1.00	0.930	93.0	8	25	19-131	
Anthracene	1.00	0.750	75.0	*21	10	41-117	
Flouranthene	1.00	0.760	76.0	*30	14	44-130	
Pyrene	1.00	0.670	67.0	2	30	41-132	
Benzo(a)anthracene	1.00	0.470	47.0	9	19	35-119	
Chrysene	1.00	0.480	48.0	9	20	42-123	
Benzo(b)flouranthene	1.00	0.530	53.0	21	19	45-123	
Benzo(k)flouranthene	1.00	0.440	44.0	23	24	42-122	
Benzo(a)pyrene	1.00	0.490	49.0	*28	25	12-125	
Dibenz(ah)anthracene	1.00	0.440	44.0	*41	19	27-145	
Benzo(ghi)Perylene	1.00	0.460	46.0	*45	22	36-138	
Indeno(123cd)pyrene	1.00	0.350	35.0	9	18	42-126	*

* Values **outside of contract required QC limits**

3C

8310 PAH LABORATORY CONTROL SPIKE SUMMARY

Lab Name : Test America **Lab Control No:** 35149 lcs

SDG # 239033

COMPOUND	Spike Added ug/L		LCS REC ug/L	LCS %	QC Limits REC
Napthalene	1.00		0.840	84	34-110
Acenapthylene	1.00		0.870	87	36-125
1-Methyl-naphthalene	1.00		0.670	67	34-122
2-Methyl-naphthalene	1.00		0.780	78	25-150
Acenapthene	1.00		0.750	75	15-130
Flourene	1.00		0.820	82	40-104
Phenanthrene	1.00		0.870	87	46-104
Anthracene	1.00		0.960	96	43-104
Flouranthene	1.00		0.650	65	42-110
Pyrene	1.00		0.860	86	46-110
Benzo(a)anthracene	1.00		0.870	87	50-110
Chrysene	1.00		0.960	96	47-110
Benzo(b)flouranthene	1.00		1.070	107	49-111
Benzo(k)flouranthene	1.00		0.930	93	48-116
Benzo(a)pyrene	1.00		1.000	100	48-114
Dibenz(ah)anthracene	1.00		0.980	98	10-120
Benzo(ghi)Perylene	1.00		1.010	101	46-117
Indeno(123cd)pyrene	1.00		1.000	100	46-115

* Values **outside of contract required QC limits**

4C

SAMPLE NO.

8310 PAH,S METHOD BLANK SUMMARY

XBLANK W

Lab Name:	Test America	**Lab Sample ID:**	44000 wbb
SDG #	239033	**Lab File ID:**	0608lc3.003
Instrument ID:	HPLC 3	**Date Analyzed:**	06/08/01
Extract Volume:	1 ml	**Time Analyzed:**	08:27
Volume Extracted:	1000 ml	**Date Received:**	05/26/01
HPLC Column:	Reverse Pahse c18	**Date Extracted:**	05/29/01

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD AND LCS:

	CLIENT ID	LAB ID	LAB FILE ID	DATE	TIME ANALYZED
01	029-DMW13-Q2-01-12 MS	44001 wsb	0608lc3.004	6/8/01	09:01
02	029-DMW13-Q2-01-12 MSD	44002 wsb	0608lc3.005	6/8/01	09:25
03	CONTROL W	35149 lcs	0608lc3.006	6/8/01	09:49
04	029-SMW01-Q2-01-12	71048	0608lc3.007	6/8/01	10:14
05	029-SMW02-Q2-01-12	71049	0608lc3.008	6/8/01	10:38
06	029-SMW03-Q2-01-12	71050	0608lc3.009	6/8/01	11:02
07	029-SMW04-Q2-01-12	71051	0608lc3.010	6/8/01	11:26
08	029-SMW05-Q2-01-12	71052	0608lc3.011	6/8/01	11:50
09	029-SMW06-Q2-01-12	71053	0608lc3.012	6/8/01	12:15
10	029-SMW07-Q2-01-12	71054	0608lc3.014	6/8/01	13:03
11	029-SMW08-Q2-01-12	71055	0608lc3.015	6/8/01	13:28
12	029-SMW09-Q2-01-12	71056	0608lc3.016	6/8/01	13:52
13	029-SMW10-Q2-01-12	71057	0608lc3.017	6/8/01	14:16
14	029-SMW11-Q2-01-12	71058	0608lc3.018	6/8/01	14:40
15	029-SMW12-Q2-01-12	71059	0608lc3.019	6/8/01	15:04
16	029-DMW13-Q2-01-12	71060	0608lc3.020	6/8/01	15:29
17	029-DUP-Q2-01-12	71061	0608lc3.021	6/8/01	15:53
18	029-EQB-Q2-01-12	71062	0608lc3.022	6/8/01	16:17
19					
20					
21					
22					
23					
24					

COMMENTS:

PAH'S by SW846/8310

RAW DATA

TESTAMERICA, INC
2960 FOSTER CREIGHTON DRIVE
NASHVILLE, TN 37204
1-800-765-0980

TestAmerica
INCORPORATED

Sample Identification

029-SMW01-Q2-01-12

Matrix: Water
pH:
Units: ug/l
Dilution Factor: 1.
Analysis Method: SW8310
Delivery Group: 239033
Instrument:
Vol Extracted: 990. ml
Extract Vol: 1.00 ml

Lab Sample ID: 01-A71048
Date Sampled:: 5/23/01
Date Received: 5/26/01
Analysis Date: 6/ 8/01
Analysis Time: 10:14
Sample QC Group: 3139

Extraction Date: 5/29/01

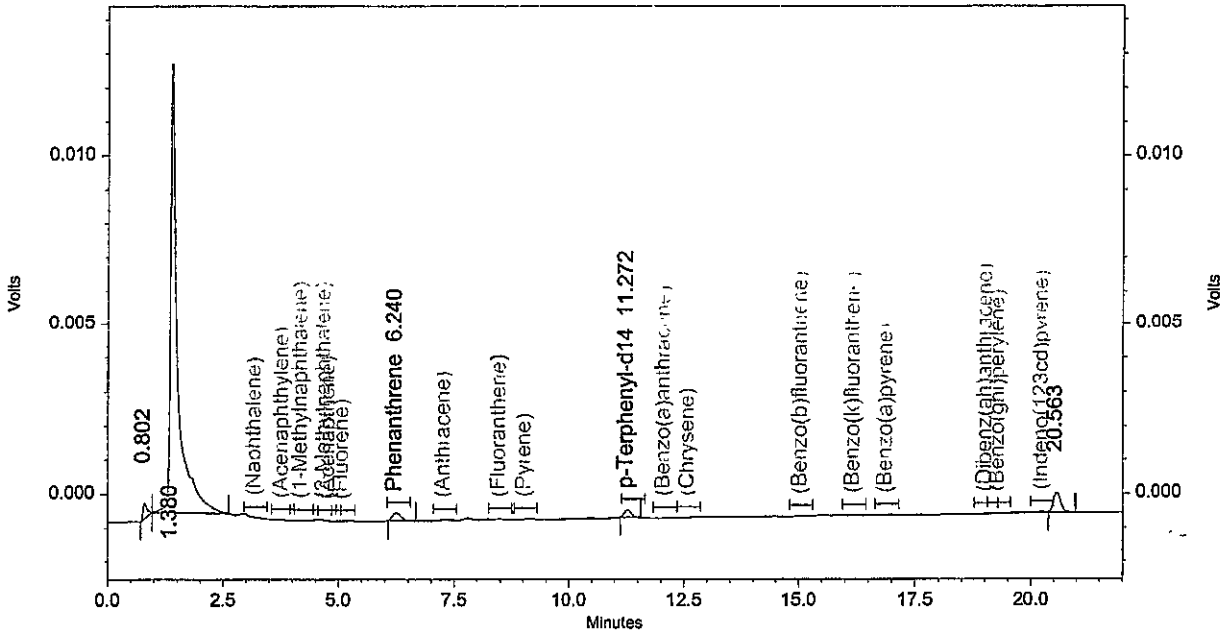
FORM I

CAS NUMBER	ANALYTE	CONCENTRATION	FLAG
91-20-3	Naphthalene	1.01	U
208-96-8	Acenaphthene	0.2	U
120-12-7	Anthracene	0.25	U
206-44-0	Fluoranthene	0.2	U
86-73-7	Fluorene	0.2	U
129-00-0	Pyrene	0.2	U
56-55-3	Benzo(a)anthracene	0.05	U
50-32-8	Benzo(a)pyrene	0.1	U
205-99-2	Benzo(b)fluoranthene	0.18	U
207-08-9	Benzo(k)fluoranthene	0.17	U
218-01-9	Chrysene	0.15	U
53-70-3	Dibenzo(a,h)anthracene	0.2	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.4	U
208-96-8	Acenaphthylene	0.2	U
191-24-2	Benzo(g,h,i)perylene	0.2	U
85-01-8	Phenanthrene	0.2	U
90-12-0	1-Methylnapthalene	1.01	U
91-57-6	2-Methylnaphthalene	1.01	U

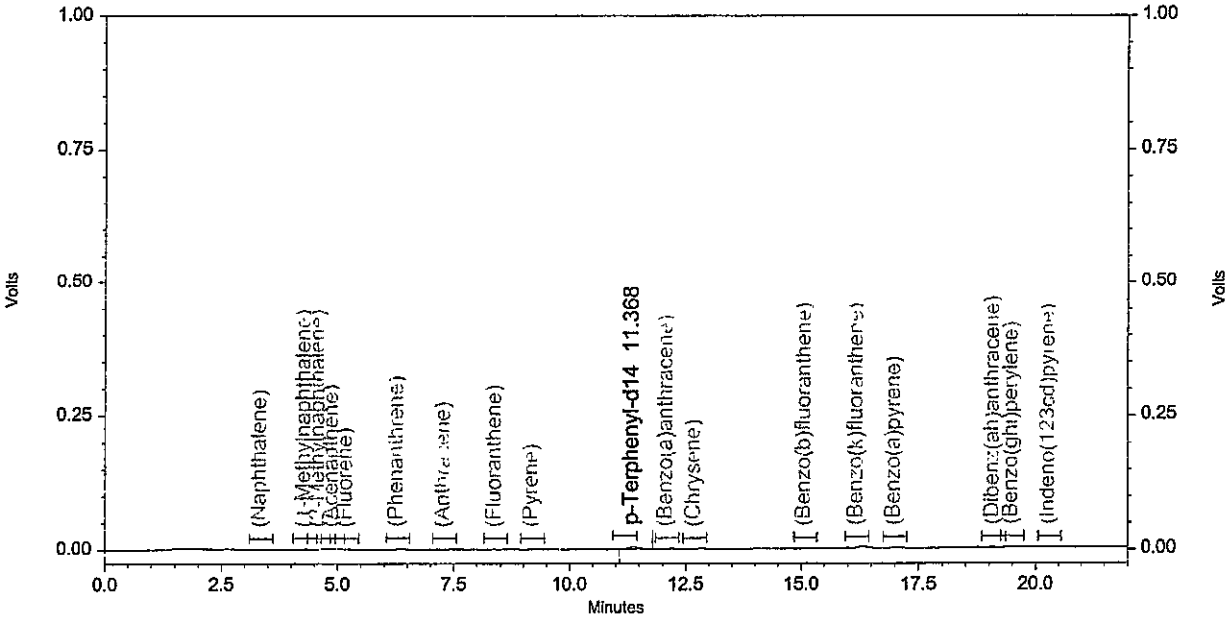
TEST AMERICA, INC. - HPLC Custom Report

Sample Name : 71048
Date/Time of analysis : 6/8/2001 10:14:05
Filename : C:\EZChrom Elite\Projects\Default\public\0608lc3.007
Method : C:\EZChrom Elite\Methods\Lc3pah0524.met

UV Detector



Fluorescence Detector



TEST AMERICA, INC. - HPLC Custom Report

Sample Name : 71048
Date/Time of analysis : 6/8/2001 10:14:05
Filename : C:\EZChrom Elite\Projects\Default\public\0608lc3.007
Method : C:\EZChrom Elite\Methods\Lc3pah0524.met

UV - Report

Name	Retention Time	Area	ESTD concentration
Naphthalene			0.00 BDL
Acenaphthylene			0.00 BDL
1-Methylnaphthalene			0.00 BDL
2-Methylnaphthalene			0.00 BDL
Acenapthene			0.00 BDL
Fluorene			0.00 BDL
Phenanthrene	6.24	2792	0.12
Anthracene			0.00 BDL
Fluoranthene			0.00 BDL
Pyrene			0.00 BDL
p-Terphenyl-d14	11.27	2233	0.64
Benzo(a)anthracene			0.00 BDL
Chrysene			0.00 BDL
Benzo(b)fluoranthene			0.00 BDL
Benzo(k)fluoranthene			0.00 BDL
Benzo(a)pyrene			0.00 BDL
Dibenz(ah)anthracene			0.00 BDL
Benzo(ghi)perylene			0.00 BDL
Indeno(123cd)pyrene			0.00 BDL

Fluorescence Report

Name	Retention Time	Area	ESTD concentration
Naphthalene			0.00 BDL
1-Methylnaphthalene			0.00 BDL
2-Methylnaphthalene			0.00 BDL
Acenapthene			0.00 BDL
Fluorene			0.00 BDL
Phenanthrene			0.00 BDL
Anthracene			0.00 BDL
Fluoranthene			0.00 BDL
Pyrene			0.00 BDL
p-Terphenyl-d14	11.37	65227	0.82 ✓
Benzo(a)anthracene			0.00 BDL
Chrysene			0.00 BDL
Benzo(b)fluoranthene			0.00 BDL
Benzo(k)fluoranthene			0.00 BDL
Benzo(a)pyrene			0.00 BDL
Dibenz(ah)anthracene			0.00 BDL
Benzo(ghi)perylene			0.00 BDL
Indeno(123cd)pyrene			0.00 BDL

TestAmerica
INCORPORATED

Sample Identification

029-SMW02-Q2-01-12

Matrix: Water
pH:
Units: ug/l
Dilution Factor: 1.
Analysis Method: SW8310
Delivery Group: 239033
Instrument:
Vol Extracted: 990. ml
Extract Vol: 1.00 ml

Lab Sample ID: 01-A71049
Date Sampled:: 5/24/01
Date Received: 5/26/01
Analysis Date: 6/ 8/01
Analysis Time: 10:14
Sample QC Group: 3139

Extraction Date: 5/29/01

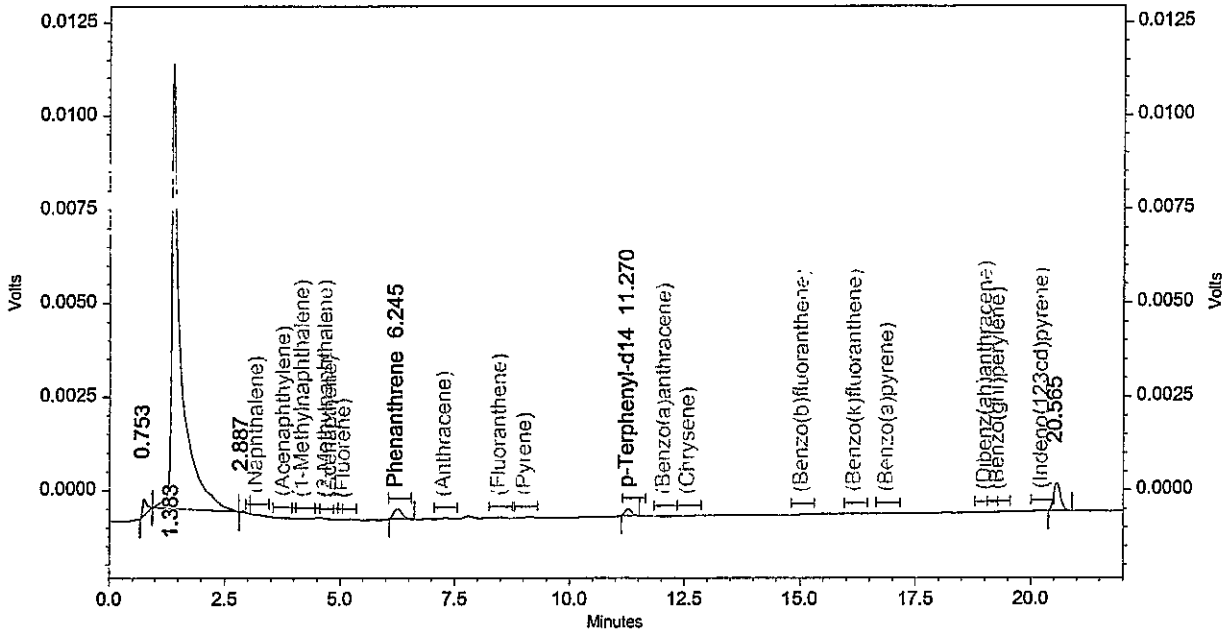
FORM I

CAS NUMBER	ANALYTE	CONCENTRATION	FLAG
91-20-3	Naphthalene	1.01	U
208-96-8	Acenaphthene	0.2	U
120-12-7	Anthracene	0.25	U
206-44-0	Fluoranthene	0.2	U
86-73-7	Fluorene	0.2	U
129-00-0	Pyrene	0.2	U
56-55-3	Benzo(a)anthracene	0.05	U
50-32-8	Benzo(a)pyrene	0.1	U
205-99-2	Benzo(b)fluoranthene	0.18	U
207-08-9	Benzo(k)fluoranthene	0.17	U
218-01-9	Chrysene	0.15	U
53-70-3	Dibenzo(a,h)anthracene	0.2	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.4	U
208-96-8	Acenaphthylene	0.2	U
191-24-2	Benzo(g,h,i)perylene	0.2	U
85-01-8	Phenanthrene	0.2	U
90-12-0	1-Methylnapthalene	1.01	U
91-57-6	2-Methylnaphthalene	1.01	U

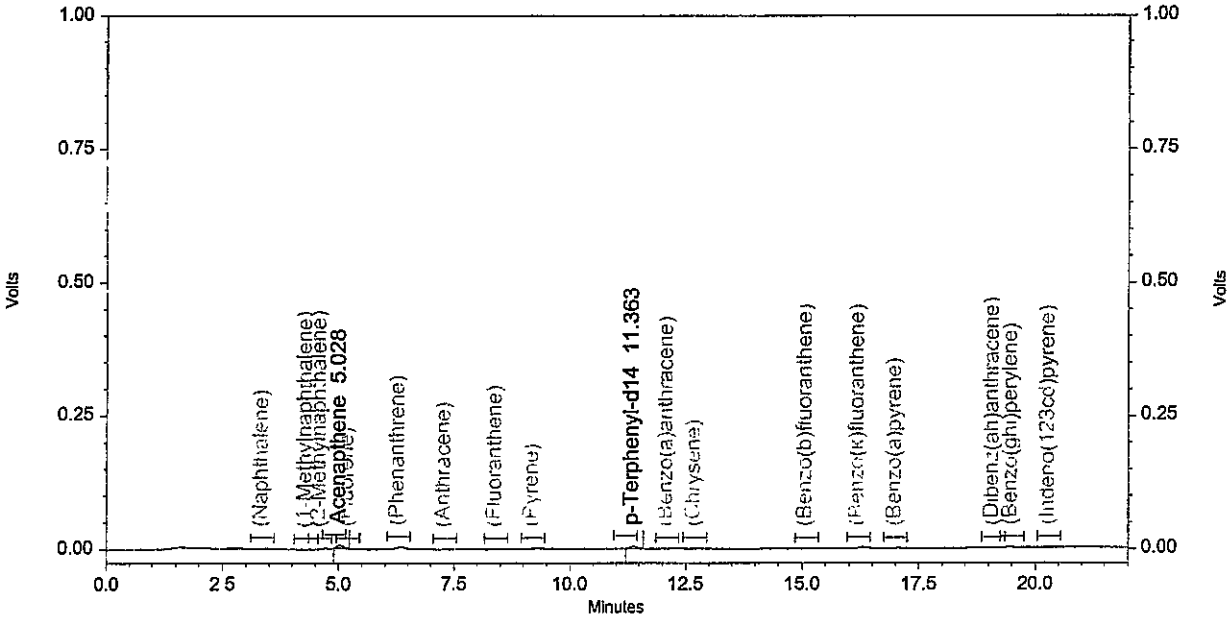
TEST AMERICA, INC. - HPLC Custom Report

Sample Name : 71049
Date/Time of analysis : 6/8/2001 10:38:17
Filename : C:\EZChrom Elite\Projects\Default\public\0608lc3.008
Method : C:\EZChrom Elite\Methods\Lc3pah0524.met

UV Detector



Fluorescence Detector



TEST AMERICA, INC. - HPLC Custom Report

Sample Name : 71049
Date/Time of analysis : 6/8/2001 10:38:17
Filename : C:\EZChrom Elite\Projects\Default\public\0608lc3.008
Method : C:\EZChrom Elite\Methods\Lc3pah0524.met

UV - Report

Name	Retention Time	Area	ESTD concentration
Naphthalene			0.00 BDL
Acenaphthylene			0.00 BDL
1-Methylnaphthalene			0.00 BDL
2-Methylnaphthalene			0.00 BDL
Acenapthene			0.00 BDL
Fluorene			0.00 BDL
Phenanthrene	6.25	3387	0.14
Anthracene			0.00 BDL
Fluoranthene			0.00 BDL
Pyrene			0.00 BDL
p-Terphenyl-d14	11.27	1755	0.51
Benzo(a)anthracene			0.00 BDL
Chrysene			0.00 BDL
Benzo(b)fluoranthene			0.00 BDL
Benzo(k)fluoranthene			0.00 BDL
Benzo(a)pyrene			0.00 BDL
Dibenz(ah)anthracene			0.00 BDL
Benzo(ghi)perylene			0.00 BDL
Indeno(123cd)pyrene			0.00 BDL

Fluorescence Report

Name	Retention Time	Area	ESTD concentration
Naphthalene			0.00 BDL
1-Methylnaphthalene			0.00 BDL
2-Methylnaphthalene			0.00 BDL
Acenapthene	5.03	57965	0.12
Fluorene			0.00 BDL
Phenanthrene			0.00 BDL
Anthracene			0.00 BDL
Fluoranthene			0.00 BDL
Pyrene			0.00 BDL
p-Terphenyl-d14	11.36	43488	0.55
Benzo(a)anthracene			0.00 BDL
Chrysene			0.00 BDL
Benzo(b)fluoranthene			0.00 BDL
Benzo(k)fluoranthene			0.00 BDL
Benzo(a)pyrene			0.00 BDL
Dibenz(ah)anthracene			0.00 BDL
Benzo(ghi)perylene			0.00 BDL
Indeno(123cd)pyrene			0.00 BDL

TestAmerica
INCORPORATED

Sample Identification

029-SMW03-Q2-01-12

Matrix: Water
pH:
Units: ug/l
Dilution Factor: 1.
Analysis Method: SW8310
Delivery Group: 239033
Instrument:
Vol Extracted: 990. ml
Extract Vol: 1.00 ml

Lab Sample ID: 01-A71050
Date Sampled:: 5/23/01
Date Received: 5/26/01
Analysis Date: 6/ 8/01
Analysis Time: 10:14
Sample QC Group: 3139

Extraction Date: 5/29/01

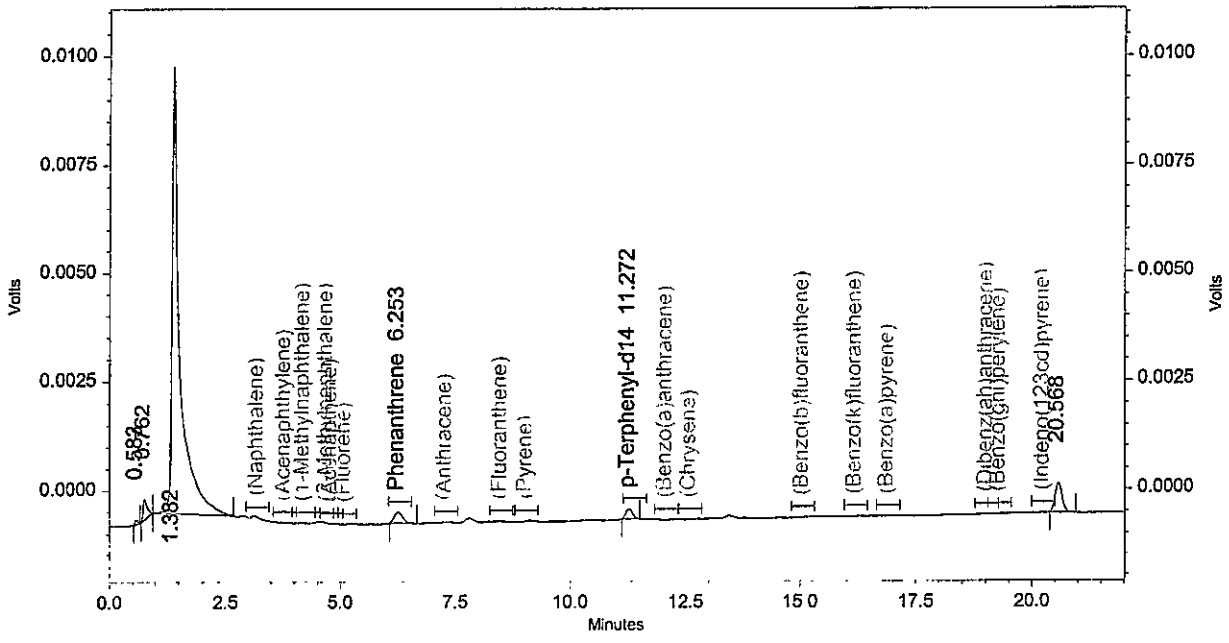
FORM I

CAS NUMBER	ANALYTE	CONCENTRATION	FLAG
91-20-3	Naphthalene	1.01	U
208-96-8	Acenaphthene	0.2	U
120-12-7	Anthracene	0.25	U
206-44-0	Fluoranthene	0.2	U
86-73-7	Fluorene	0.2	U
129-00-0	Pyrene	0.2	U
56-55-3	Benzo(a)anthracene	0.05	U
50-32-8	Benzo(a)pyrene	0.1	U
205-99-2	Benzo(b)fluoranthene	0.18	U
207-08-9	Benzo(k)fluoranthene	0.17	U
218-01-9	Chrysene	0.15	U
53-70-3	Dibenzo(a,h)anthracene	0.2	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.4	U
208-96-8	Acenaphthylene	0.2	U
191-24-2	Benzo(g,h,i)perylene	0.2	U
85-01-8	Phenanthrene	0.2	U
90-12-0	1-Methylnapthalene	1.01	U
91-57-6	2-Methylnaphthalene	1.01	U

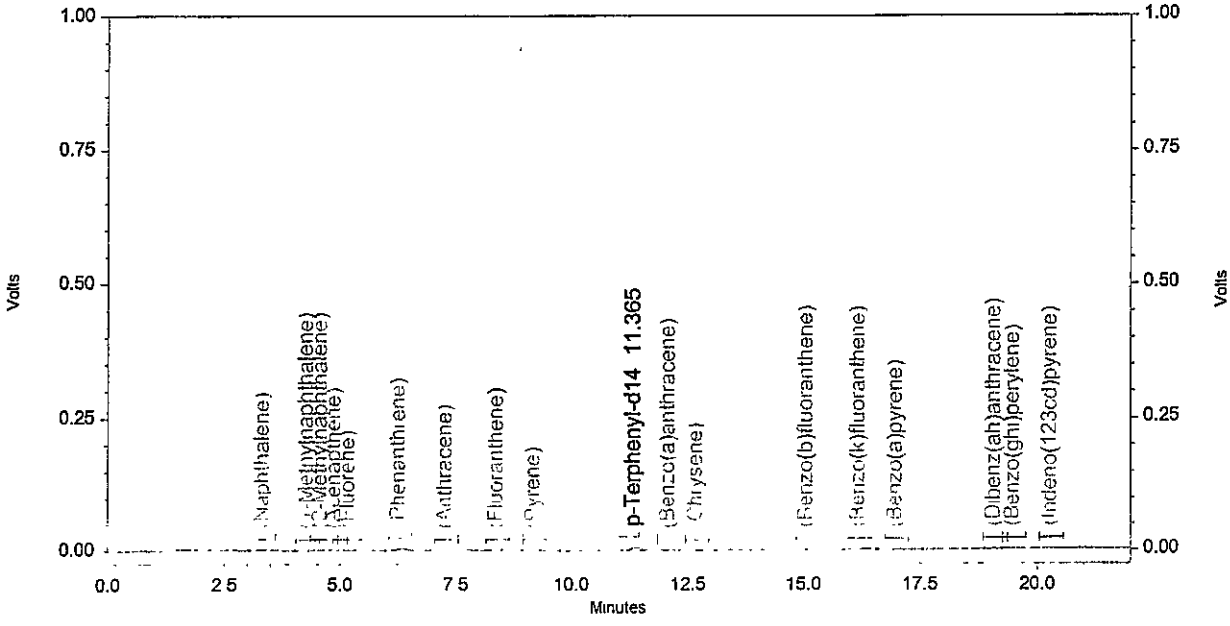
TEST AMERICA, INC. - HPLC Custom Report

Sample Name : 71050
Date/Time of analysis : 6/8/2001 11:02:31
Filename : C:\EZChrom Elite\Projects\Default\public\0608lc3.009
Method : C:\EZChrom Elite\Methods\Lc3pah0524.met

UV Detector



Fluorescence Detector



TEST AMERICA, INC. - HPLC Custom Report

Sample Name : 71050
Date/Time of analysis : 6/8/2001 11:02:31
Filename : C:\EZChrom Elite\Projects\Default\public\0608lc3.009
Method : C:\EZChrom Elite\Methods\Lc3pah0524.met

UV - Report

Name	Retention Time	Area	ESTD concentration
Naphthalene			0.00 BDL
Acenaphthylene			0.00 BDL
1-Methylnaphthalene			0.00 BDL
2-Methylnaphthalene			0.00 BDL
Acenapthene			0.00 BDL
Fluorene			0.00 BDL
Phenanthrene	6.25	3284	0.14
Anthracene			0.00 BDL
Fluoranthene			0.00 BDL
Pyrene			0.00 BDL
p-Terphenyl-d14	11.27	2181	0.63
Benzo(a)anthracene			0.00 BDL
Chrysene			0.00 BDL
Benzo(b)fluoranthene			0.00 BDL
Benzo(k)fluoranthene			0.00 BDL
Benzo(a)pyrene			0.00 BDL
Dibenz(ah)anthracene			0.00 BDL
Benzo(ghi)perylene			0.00 BDL
Indeno(123cd)pyrene			0.00 BDL

Fluorescence Report

Name	Retention Time	Area	ESTD concentration
Naphthalene			0.00 BDL
1-Methylnaphthalene			0.00 BDL
2-Methylnaphthalene			0.00 BDL
Acenapthene			0.00 BDL
Fluorene			0.00 BDL
Phenanthrene			0.00 BDL
Anthracene			0.00 BDL
Fluoranthene			0.00 BDL
Pyrene			0.00 BDL
p-Terphenyl-d14	11.37	54034	0.68 /
Benzo(a)anthracene			0.00 BDL
Chrysene			0.00 BDL
Benzo(b)fluoranthene			0.00 BDL
Benzo(k)fluoranthene			0.00 BDL
Benzo(a)pyrene			0.00 BDL
Dibenz(ah)anthracene			0.00 BDL
Benzo(ghi)perylene			0.00 BDL
Indeno(123cd)pyrene			0.00 BDL

TestAmerica
INCORPORATED

Sample Identification

029-SMW04-Q2-01-12

Matrix: Water
pH:
Units: ug/l
Dilution Factor: 1.
Analysis Method: SW8310
Delivery Group: 239033
Instrument:
Vol Extracted: 920. ml
Extract Vol: 1.00 ml

Lab Sample ID: 01-A71051
Date Sampled:: 5/23/01
Date Received: 5/26/01
Analysis Date: 6/ 8/01
Analysis Time: 10:14
Sample QC Group: 3139

Extraction Date: 5/29/01

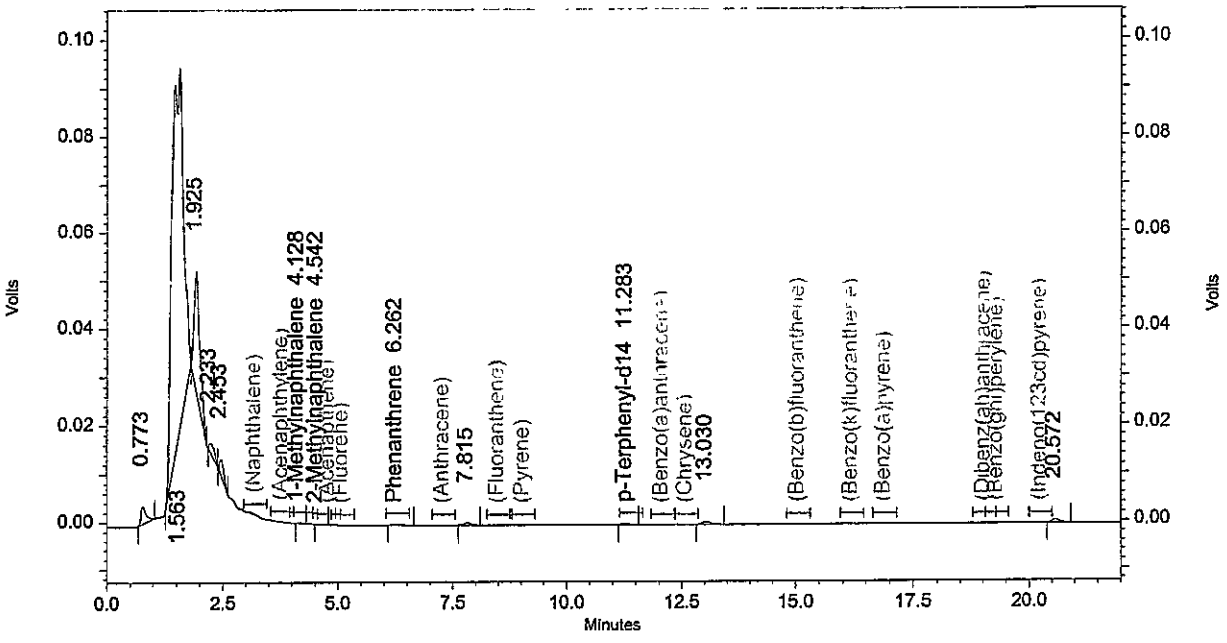
FORM I

CAS NUMBER	ANALYTE	CONCENTRATION	FLAG
91-20-3	Naphthalene	1.09	U
208-96-8	Acenaphthene	0.22	U
120-12-7	Anthracene	0.27	U
206-44-0	Fluoranthene	0.22	U
86-73-7	Fluorene	0.22	U
129-00-0	Pyrene	0.22	U
56-55-3	Benzo(a)anthracene	0.05	U
50-32-8	Benzo(a)pyrene	0.11	U
205-99-2	Benzo(b)fluoranthene	0.2	U
207-08-9	Benzo(k)fluoranthene	0.18	U
218-01-9	Chrysene	0.16	U
53-70-3	Dibenzo(a,h)anthracene	0.22	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.43	U
208-96-8	Acenaphthylene	0.22	U
191-24-2	Benzo(g,h,i)perylene	0.22	U
85-01-8	Phenanthrene	0.22	U
90-12-0	1-Methylnapthalene	1.09	U
91-57-6	2-Methylnaphthalene	1.09	U

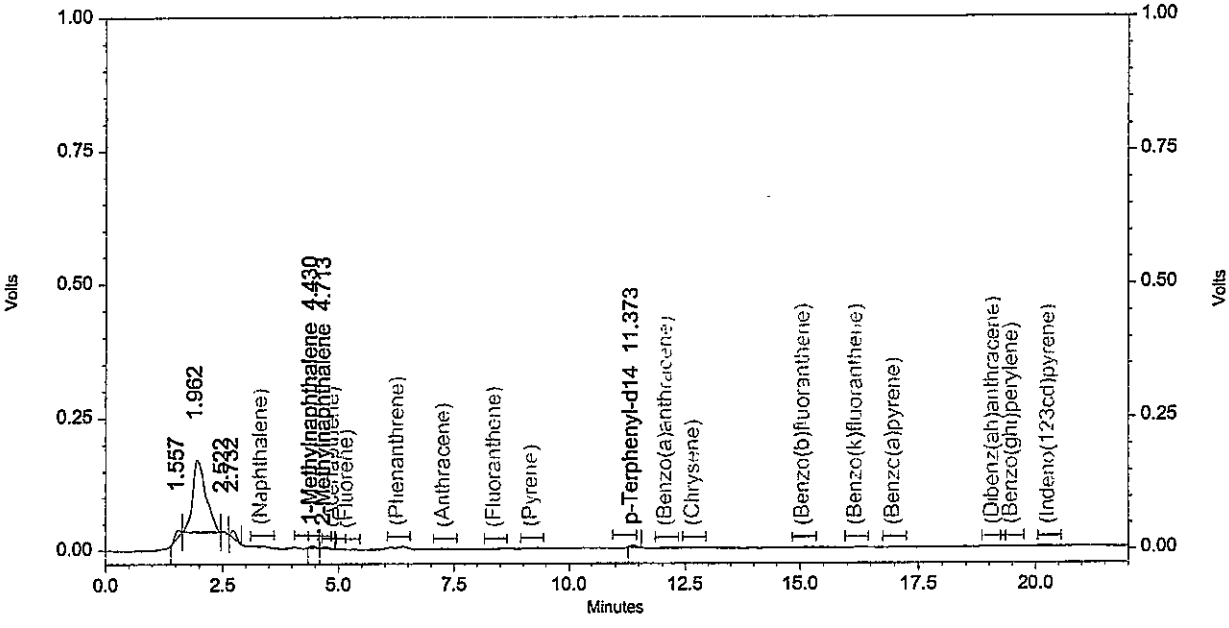
TEST AMERICA, INC. - HPLC Custom Report

Sample Name : 71051
Date/Time of analysis : 6/8/2001 11:26:44
Filename : C:\EZChrom Elite\Projects\Default\public\0608lc3.010
Method : C:\EZChrom Elite\Methods\Lc3pah0524.met

UV Detector



Fluorescence Detector



TEST AMERICA, INC. - HPLC Custom Report

Sample Name : 71051
Date/Time of analysis : 6/8/2001 11:26:44
Filename : C:\EZChrom Elite\Projects\Default\public\0608lc3.010
Method : C:\EZChrom Elite\Methods\Lc3pah0524.met

UV - Report

Name	Retention Time	Area	ESTD concentration
Naphthalene			0.00 BDL
Acenaphthylene			0.00 BDL
1-Methylnaphthalene	4.13	515	0.61
2-Methylnaphthalene	4.54	536	0.39
Acenapthene			0.00 BDL
Fluorene			0.00 BDL
Phenanthrene	6.26	3500	0.14
Anthracene			0.00 BDL
Fluoranthene			0.00 BDL
Pyrene			0.00 BDL
p-Terphenyl-d14	11.28	2306	0.66
Benzo(a)anthracene			0.00 BDL
Chrysene			0.00 BDL
Benzo(b)fluoranthene			0.00 BDL
Benzo(k)fluoranthene			0.00 BDL
Benzo(a)pyrene			0.00 BDL
Dibenz(ah)anthracene			0.00 BDL
Benzo(ghi)perylene			0.00 BDL
Indeno(123cd)pyrene			0.00 BDL

Fluorescence Report

Name	Retention Time	Area	ESTD concentration
Naphthalene			0.00 BDL
1-Methylnaphthalene	4.43	31960	0.13
2-Methylnaphthalene	4.71	34246	0.16
Acenapthene			0.00 BDL
Fluorene			0.00 BDL
Phenanthrene			0.00 BDL
Anthracene			0.00 BDL
Fluoranthene			0.00 BDL
Pyrene			0.00 BDL
p-Terphenyl-d14	11.37	33211	0.42
Benzo(a)anthracene			0.00 BDL
Chrysene			0.00 BDL
Benzo(b)fluoranthene			0.00 BDL
Benzo(k)fluoranthene			0.00 BDL
Benzo(a)pyrene			0.00 BDL
Dibenz(ah)anthracene			0.00 BDL
Benzo(ghi)perylene			0.00 BDL
Indeno(123cd)pyrene			0.00 BDL

TestAmerica
INCORPORATED

Sample Identification

029-SMW05-Q2-01-12

Matrix: Water
pH:
Units: ug/l
Dilution Factor: 1.
Analysis Method: SW8310
Delivery Group: 239033
Instrument:
Vol Extracted: 920. ml
Extract Vol: 1.00 ml

Lab Sample ID: 01-A71052
Date Sampled:: 5/23/01
Date Received: 5/26/01
Analysis Date: 6/ 8/01
Analysis Time: 10:14
Sample QC Group: 3139

Extraction Date: 5/29/01

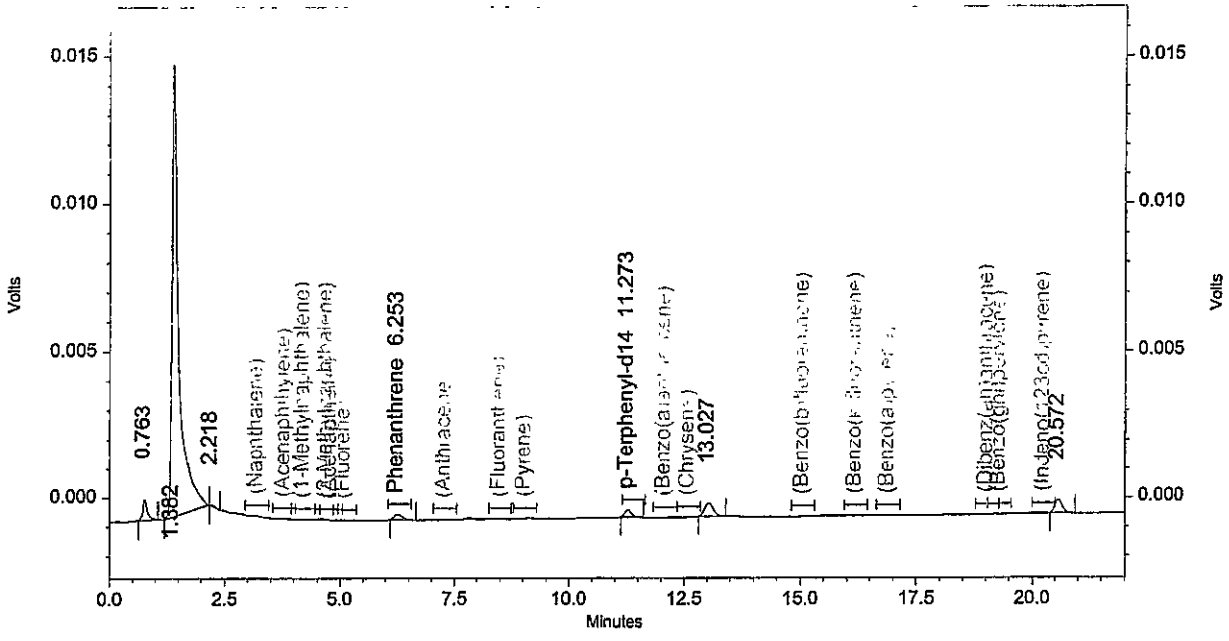
FORM I

CAS NUMBER	ANALYTE	CONCENTRATION	FLAG
91-20-3	Naphthalene	1.09	U
208-96-8	Acenaphthene	0.22	U
120-12-7	Anthracene	0.27	U
206-44-0	Fluoranthene	0.22	U
86-73-7	Fluorene	0.22	U
129-00-0	Pyrene	0.22	U
56-55-3	Benzo(a)anthracene	0.05	U
50-32-8	Benzo(a)pyrene	0.11	U
205-99-2	Benzo(b)fluoranthene	0.2	U
207-08-9	Benzo(k)fluoranthene	0.18	U
218-01-9	Chrysene	0.16	U
53-70-3	Dibenzo(a,h)anthracene	0.22	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.43	U
208-96-8	Acenaphthylene	0.22	U
191-24-2	Benzo(g,h,i)perylene	0.22	U
85-01-8	Phenanthrene	0.22	U
90-12-0	1-Methylnapthalene	1.09	U
91-57-6	2-Methylnaphthalene	1.09	U

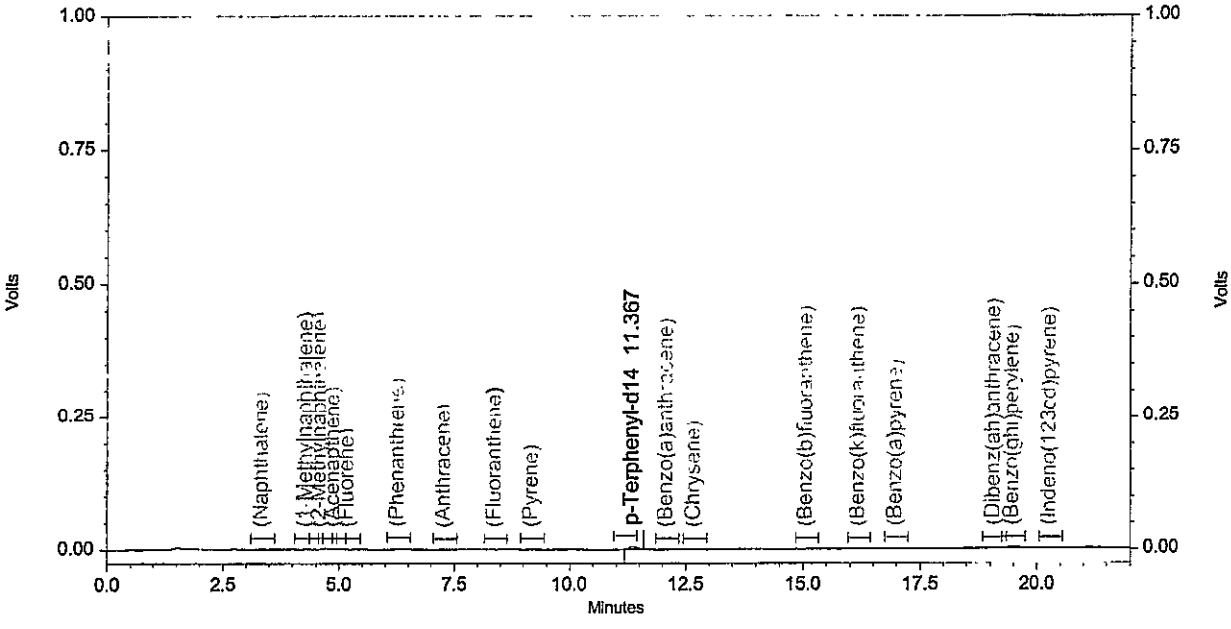
TEST AMERICA, INC. - HPLC Custom Report

Sample Name : 71052
Date/Time of analysis : 6/8/2001 11:50:58
Filename : C:\EZChrom Elite\Projects\Default\public\0608lc3.011
Method : C:\EZChrom Elite\Methods\Lc3pah0524.met

UV Detector



Fluorescence Detector



TEST AMERICA, INC. - HPLC Custom Report

Sample Name : 71052
Date/Time of analysis : 6/8/2001 11:50:58
Filename : C:\EZChrom Elite\Projects\Default\public\0608lc3.011
Method : C:\EZChrom Elite\Methods\Lc3pah0524.met

UV - Report

Name	Retention Time	Area	ESTD concentration
Naphthalene			0.00 BDL
Acenaphthylene			0.00 BDL
1-Methylnaphthalene			0.00 BDL
2-Methylnaphthalene			0.00 BDL
Acenapthene			0.00 BDL
Fluorene			0.00 BDL
Phenanthrene	6.25	2252	0.09
Anthracene			0.00 BDL
Fluoranthene			0.00 BDL
Pyrene			0.00 BDL
p-Terphenyl-d14	11.27	2528	0.73
Benzo(a)anthracene			0.00 BDL
Chrysene			0.00 BDL
Benzo(b)fluoranthene			0.00 BDL
Benzo(k)fluoranthene			0.00 BDL
Benzo(a)pyrene			0.00 BDL
Dibenz(ah)anthracene			0.00 BDL
Benzo(ghi)perylene			0.00 BDL
Indeno(123cd)pyrene			0.00 BDL

Fluorescence Report

Name	Retention Time	Area	ESTD concentration
Naphthalene			0.00 BDL
1-Methylnaphthalene			0.00 BDL
2-Methylnaphthalene			0.00 BDL
Acenapthene			0.00 BDL
Fluorene			0.00 BDL
Phenanthrene			0.00 BDL
Anthracene			0.00 BDL
Fluoranthene			0.00 BDL
Pyrene			0.00 BDL
p-Terphenyl-d14	11.37	56823	0.72
Benzo(a)anthracene			0.00 BDL
Chrysene			0.00 BDL
Benzo(b)fluoranthene			0.00 BDL
Benzo(k)fluoranthene			0.00 BDL
Benzo(a)pyrene			0.00 BDL
Dibenz(ah)anthracene			0.00 BDL
Benzo(ghi)perylene			0.00 BDL
Indeno(123cd)pyrene			0.00 BDL

TestAmerica
INCORPORATED

Sample Identification

029-SMW06-Q2-01-12

Matrix: Water
pH:
Units: ug/l
Dilution Factor: 1.
Analysis Method: SW8310
Delivery Group: 239033
Instrument:
Vol Extracted: 990. ml
Extract Vol: 1.00 ml

Lab Sample ID: 01-A71053
Date Sampled:: 5/24/01
Date Received: 5/26/01
Analysis Date: 6/ 8/01
Analysis Time: 10:14
Sample QC Group: 3139

Extraction Date: 5/29/01

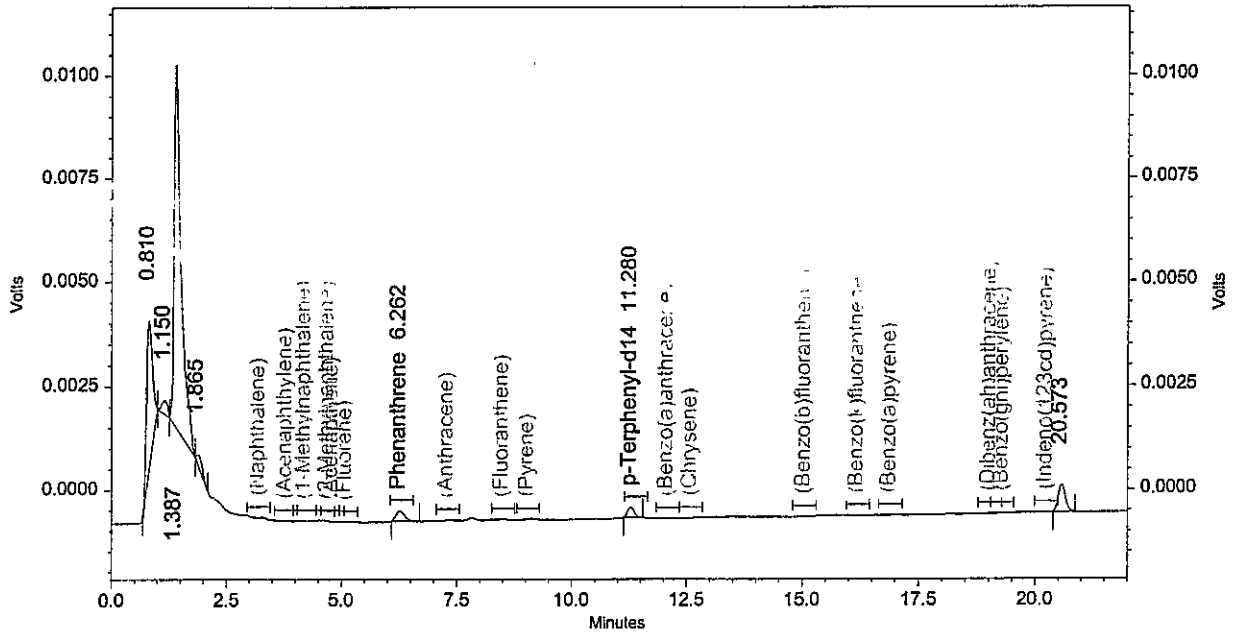
FORM I

CAS NUMBER	ANALYTE	CONCENTRATION	FLAG
91-20-3	Naphthalene	1.01	U
208-96-8	Acenaphthene	0.2	U
120-12-7	Anthracene	0.25	U
206-44-0	Fluoranthene	0.2	U
86-73-7	Fluorene	0.2	U
129-00-0	Pyrene	0.2	U
56-55-3	Benzo(a)anthracene	0.05	U
50-32-8	Benzo(a)pyrene	0.1	U
205-99-2	Benzo(b)fluoranthene	0.18	U
207-08-9	Benzo(k)fluoranthene	0.17	U
218-01-9	Chrysene	0.15	U
53-70-3	Dibenzo(a,h)anthracene	0.2	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.4	U
208-96-8	Acenaphthylene	0.2	U
191-24-2	Benzo(g,h,i)perylene	0.2	U
85-01-8	Phenanthrene	0.2	U
90-12-0	1-Methylnapthalene	1.01	U
91-57-6	2-Methylnaphthalene	1.01	U

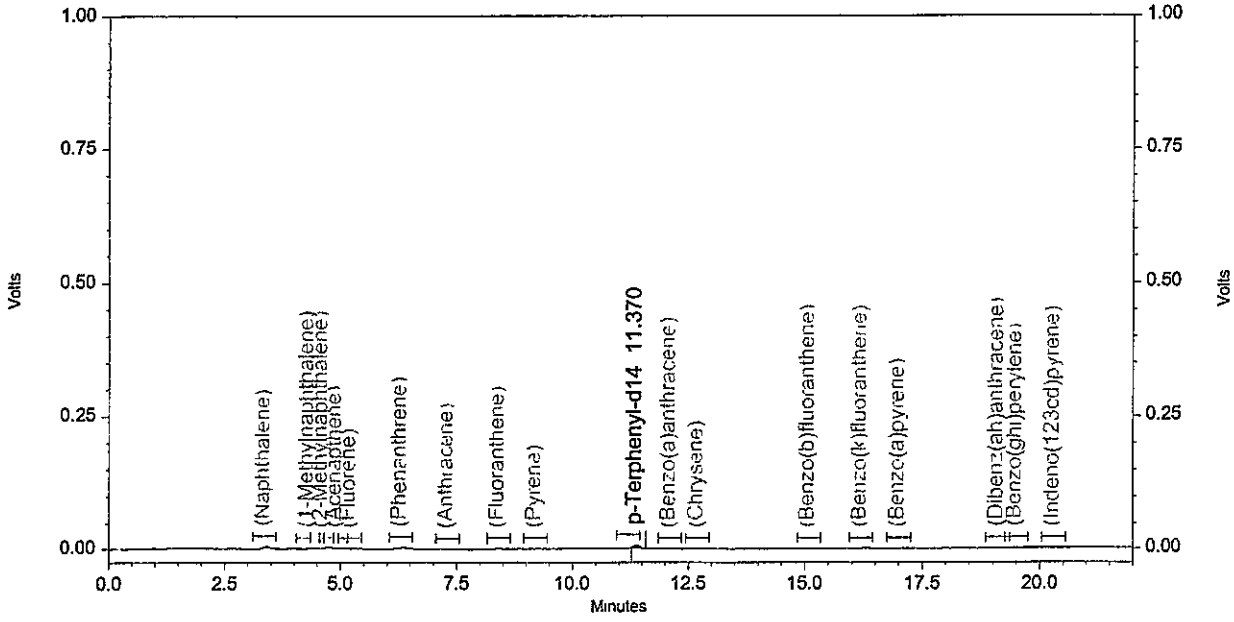
TEST AMERICA, INC. - HPLC Custom Report

Sample Name : 71053
Date/Time of analysis : 6/8/2001 12:15:12
Filename : C:\EZChrom Elite\Projects\Default\public\0608lc3.012
Method : C:\EZChrom Elite\Methods\Lc3pah0524.met

UV Detector



Fluorescence Detector



TEST AMERICA, INC. - HPLC Custom Report

Sample Name : 71053
Date/Time of analysis : 6/8/2001 12:15:12
Filename : C:\EZChrom Elite\Projects\Default\public\0608lc3.012
Method : C:\EZChrom Elite\Methods\Lc3pah0524.met

UV - Report

Name	Retention Time	Area	ESTD concentration
Naphthalene			0.00 BDL
Acenaphthylene			0.00 BDL
1-Methylnaphthalene			0.00 BDL
2-Methylnaphthalene			0.00 BDL
Acenapthene			0.00 BDL
Fluorene			0.00 BDL
Phenanthrene	6.26	3235	0.13
Anthracene			0.00 BDL
Fluoranthene			0.00 BDL
Pyrene			0.00 BDL
p-Terphenyl-d14	11.28	2463	0.71
Benzo(a)anthracene			0.00 BDL
Chrysene			0.00 BDL
Benzo(b)fluoranthene			0.00 BDL
Benzo(k)fluoranthene			0.00 BDL
Benzo(a)pyrene			0.00 BDL
Dibenz(ah)anthracene			0.00 BDL
Benzo(ghi)perylene			0.00 BDL
Indeno(123cd)pyrene			0.00 BDL

Fluorescence Report

Name	Retention Time	Area	ESTD concentration
Naphthalene			0.00 BDL
1-Methylnaphthalene			0.00 BDL
2-Methylnaphthalene			0.00 BDL
Acenapthene			0.00 BDL
Fluorene			0.00 BDL
Phenanthrene			0.00 BDL
Anthracene			0.00 BDL
Fluoranthene			0.00 BDL
Pyrene			0.00 BDL
p-Terphenyl-d14	11.37	43479	0.55
Benzo(a)anthracene			0.00 BDL
Chrysene			0.00 BDL
Benzo(b)fluoranthene			0.00 BDL
Benzo(k)fluoranthene			0.00 BDL
Benzo(a)pyrene			0.00 BDL
Dibenz(ah)anthracene			0.00 BDL
Benzo(ghi)perylene			0.00 BDL
Indeno(123cd)pyrene			0.00 BDL

TestAmerica
INCORPORATED

Sample Identification

029-SMW07-Q2-01-12

Matrix: Water
pH:
Units: ug/l
Dilution Factor: 1.
Analysis Method: SW8310
Delivery Group: 239033
Instrument:
Vol Extracted: 960. ml
Extract Vol: 1.00 ml

Lab Sample ID: 01-A71054
Date Sampled:: 5/24/01
Date Received: 5/26/01
Analysis Date: 6/ 8/01
Analysis Time: 10:14
Sample QC Group: 3139

Extraction Date: 5/29/01

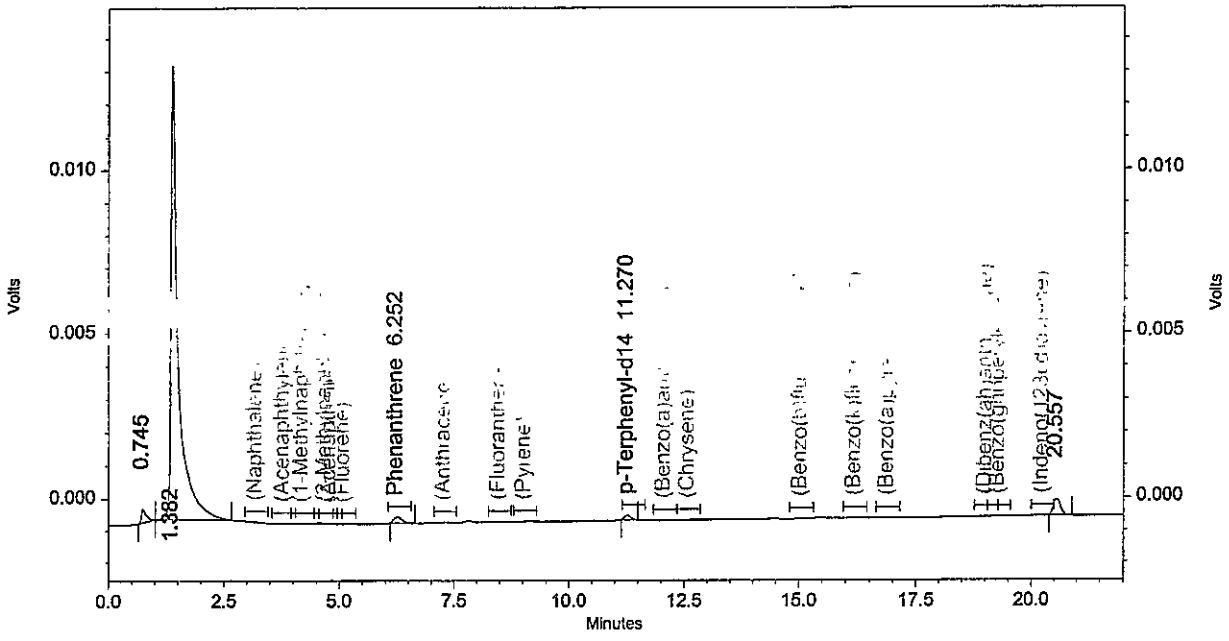
FORM I

CAS NUMBER	ANALYTE	CONCENTRATION	FLAG
91-20-3	Naphthalene	1.04	U
208-96-8	Acenaphthene	0.21	U
120-12-7	Anthracene	0.25	U
206-44-0	Fluoranthene	0.21	U
86-73-7	Fluorene	0.21	U
129-00-0	Pyrene	0.21	U
56-55-3	Benzo(a)anthracene	0.05	U
50-32-8	Benzo(a)pyrene	0.1	U
205-99-2	Benzo(b)fluoranthene	0.19	U
207-08-9	Benzo(k)fluoranthene	0.18	U
218-01-9	Chrysene	0.16	U
53-70-3	Dibenzo(a,h)anthracene	0.21	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.42	U
208-96-8	Acenaphthylene	0.21	U
191-24-2	Benzo(g,h,i)perylene	0.21	U
85-01-8	Phenanthrene	0.21	U
90-12-0	1-Methylnapthalene	1.04	U
91-57-6	2-Methylnaphthalene	1.04	U

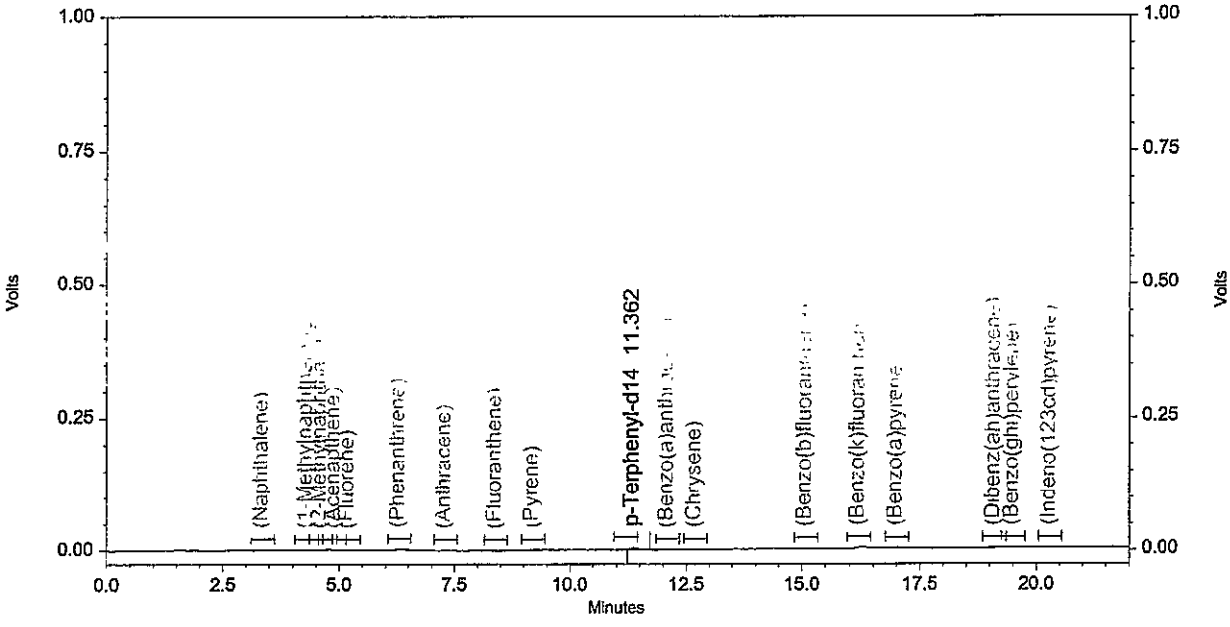
TEST AMERICA, INC. - HPLC Custom Report

Sample Name : 71054
Date/Time of analysis : 6/8/2001 13:03:45
Filename : C:\EZChrom Elite\Projects\Default\public\0608lc3.014
Method : C:\EZChrom Elite\Methods\Lc3pah0524.met

UV Detector



Fluorescence Detector



TEST AMERICA, INC. - HPLC Custom Report

Sample Name : 71054
Date/Time of analysis : 6/8/2001 13:03:45
Filename : C:\EZChrom Elite\Projects\Default\public\0608lc3.014
Method : C:\EZChrom Elite\Methods\Lc3pah0524.met

UV - Report

Name	Retention Time	Area	ESTD concentration
Naphthalene			0.00 BDL
Acenaphthylene			0.00 BDL
1-Methylnaphthalene			0.00 BDL
2-Methylnaphthalene			0.00 BDL
Acenapthene			0.00 BDL
Fluorene			0.00 BDL
Phenanthrene	6.25	2192	0.09
Anthracene			0.00 BDL
Fluoranthene			0.00 BDL
Pyrene			0.00 BDL
p-Terphenyl-d14	11.27	1306	0.38
Benzo(a)anthracene			0.00 BDL
Chrysene			0.00 BDL
Benzo(b)fluoranthene			0.00 BDL
Benzo(k)fluoranthene			0.00 BDL
Benzo(a)pyrene			0.00 BDL
Dibenz(ah)anthracene			0.00 BDL
Benzo(ghi)perylene			0.00 BDL
Indeno(123cd)pyrene			0.00 BDL

Fluorescence Report

Name	Retention Time	Area	ESTD concentration
Naphthalene			0.00 BDL
1-Methylnaphthalene			0.00 BDL
2-Methylnaphthalene			0.00 BDL
Acenapthene			0.00 BDL
Fluorene			0.00 BDL
Phenanthrene			0.00 BDL
Anthracene			0.00 BDL
Fluoranthene			0.00 BDL
Pyrene			0.00 BDL
p-Terphenyl-d14	11.36	41204	0.52
Benzo(a)anthracene			0.00 BDL
Chrysene			0.00 BDL
Benzo(b)fluoranthene			0.00 BDL
Benzo(k)fluoranthene			0.00 BDL
Benzo(a)pyrene			0.00 BDL
Dibenz(ah)anthracene			0.00 BDL
Benzo(ghi)perylene			0.00 BDL
Indeno(123cd)pyrene			0.00 BDL

TestAmerica
INCORPORATED

Sample Identification

029-SMW08-Q2-01-12

Matrix: Water
pH:
Units: ug/l
Dilution Factor: 1.
Analysis Method: SW8310
Delivery Group: 239033
Instrument:
Vol Extracted: 1000 ml
Extract Vol: 1.00 ml

Lab Sample ID: 01-A71055
Date Sampled:: 5/24/01
Date Received: 5/26/01
Analysis Date: 6/ 8/01
Analysis Time: 10:14
Sample QC Group: 3139

Extraction Date: 5/29/01

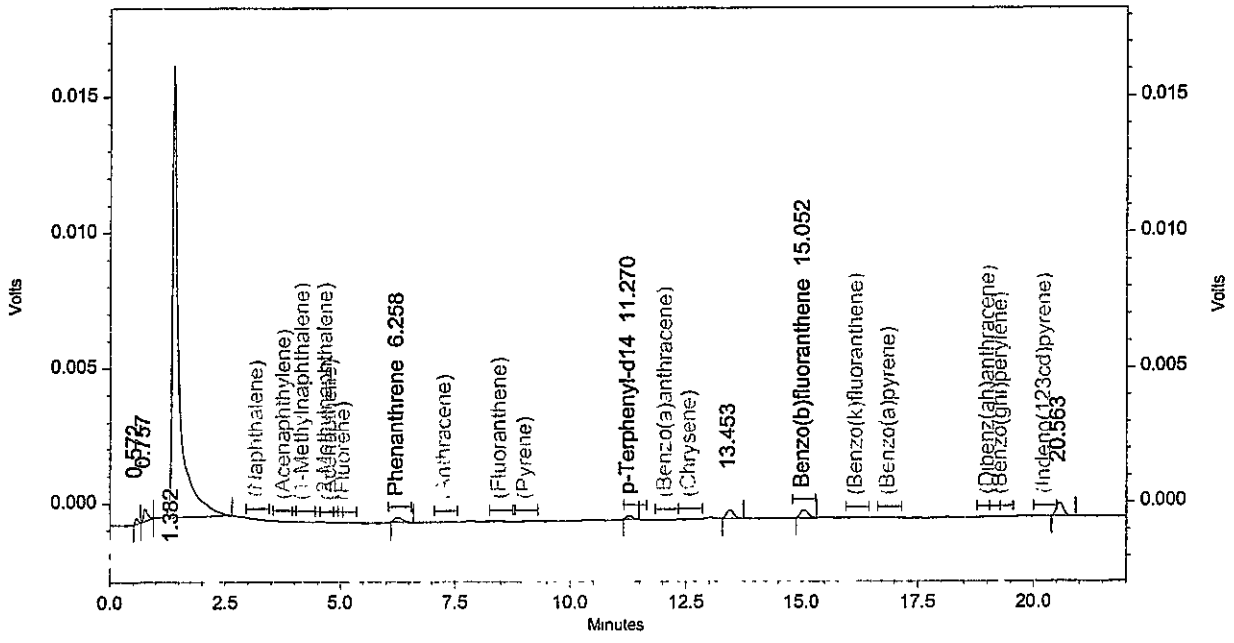
FORM I

CAS NUMBER	ANALYTE	CONCENTRATION	FLAG
91-20-3	Naphthalene	1	U
208-96-8	Acenaphthene	0.2	U
120-12-7	Anthracene	0.25	U
206-44-0	Fluoranthene	0.2	U
86-73-7	Fluorene	0.2	U
129-00-0	Pyrene	0.2	U
56-55-3	Benzo(a)anthracene	0.05	U
50-32-8	Benzo(a)pyrene	0.1	U
205-99-2	Benzo(b)fluoranthene	0.26	
207-08-9	Benzo(k)fluoranthene	0.17	U
218-01-9	Chrysene	0.15	U
53-70-3	Dibenzo(a,h)anthracene	0.2	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.4	U
208-96-8	Acenaphthylene	0.2	U
191-24-2	Benzo(g,h,i)perylene	0.02	U
85-01-8	Phenanthrene	0.2	U
90-12-0	1-Methylnapthalene	1	U
91-57-6	2-Methylnaphthalene	1	U

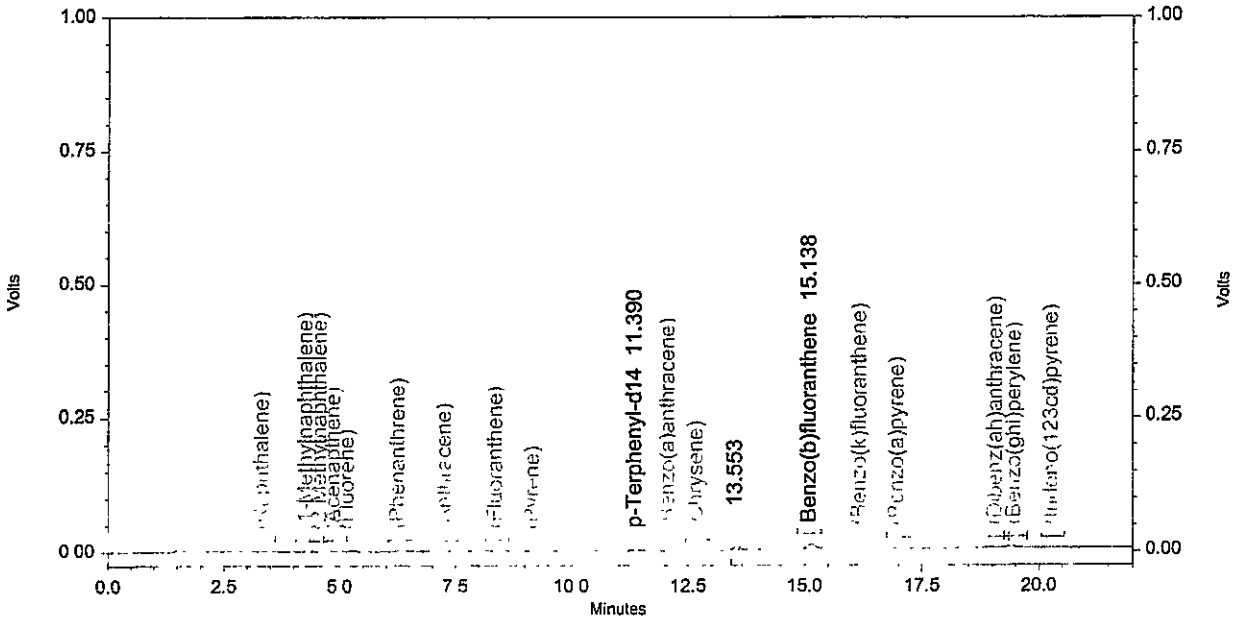
TEST AMERICA, INC. - HPLC Custom Report

Sample Name : 71055
Date/Time of analysis : 6/8/2001 13:28:00
Filename : C:\EZChrom Elite\Projects\Default\public\0608lc3.015
Method : C:\EZChrom Elite\Methods\Lc3pah0524.met

UV Detector



Fluorescence Detector



TEST AMERICA, INC. - HPLC Custom Report

Sample Name : 71055
Date/Time of analysis : 6/8/2001 13:28:00
Filename : C:\EZChrom Elite\Projects\Default\public\0608lc3.015
Method : C:\EZChrom Elite\Methods\Lc3pah0524.met

UV - Report

Name	Retention Time	Area	ESTD concentration
Naphthalene			0.00 BDL
Acenaphthylene			0.00 BDL
1-Methylnaphthalene			0.00 BDL
2-Methylnaphthalene			0.00 BDL
Acenapthene			0.00 BDL
Fluorene			0.00 BDL
Phenanthrene	6.26	2210	0.09
Anthracene			0.00 BDL
Fluoranthene			0.00 BDL
Pyrene			0.00 BDL
p-Terphenyl-d14	11.27	1259	0.36
Benzo(a)anthracene			0.00 BDL
Chrysene			0.00 BDL
Benzo(b)fluoranthene	15.05	3317	0.26
Benzo(k)fluoranthene			0.00 BDL
Benzo(a)pyrene			0.00 BDL
Dibenz(ah)anthracene			0.00 BDL
Benzo(ghi)perylene			0.00 BDL
Indeno(123cd)pyrene			0.00 BDL

Fluorescence Report

Name	Retention Time	Area	ESTD concentration
Naphthalene			0.00 BDL
1-Methylnaphthalene			0.00 BDL
2-Methylnaphthalene			0.00 BDL
Acenapthene			0.00 BDL
Fluorene			0.00 BDL
Phenanthrene			0.00 BDL
Anthracene			0.00 BDL
Fluoranthene			0.00 BDL
Pyrene			0.00 BDL
p-Terphenyl-d14	11.39	27776	0.35
Benzo(a)anthracene			0.00 BDL
Chrysene			0.00 BDL
Benzo(b)fluoranthene	15.14	84438	0.11
Benzo(k)fluoranthene			0.00 BDL
Benzo(a)pyrene			0.00 BDL
Dibenz(ah)anthracene			0.00 BDL
Benzo(ghi)perylene			0.00 BDL
Indeno(123cd)pyrene			0.00 BDL

TestAmerica
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Sample Identification

029-SMW09-Q2-01-12

Matrix: Water
pH:
Units: ug/l
Dilution Factor: 1.
Analysis Method: SW8310
Delivery Group: 239033
Instrument:
Vol Extracted: 980. ml
Extract Vol: 1.00 ml

Lab Sample ID: 01-A71056
Date Sampled:: 5/24/01
Date Received: 5/26/01
Analysis Date: 6/ 8/01
Analysis Time: 10:14
Sample QC Group: 3139

Extraction Date: 5/29/01

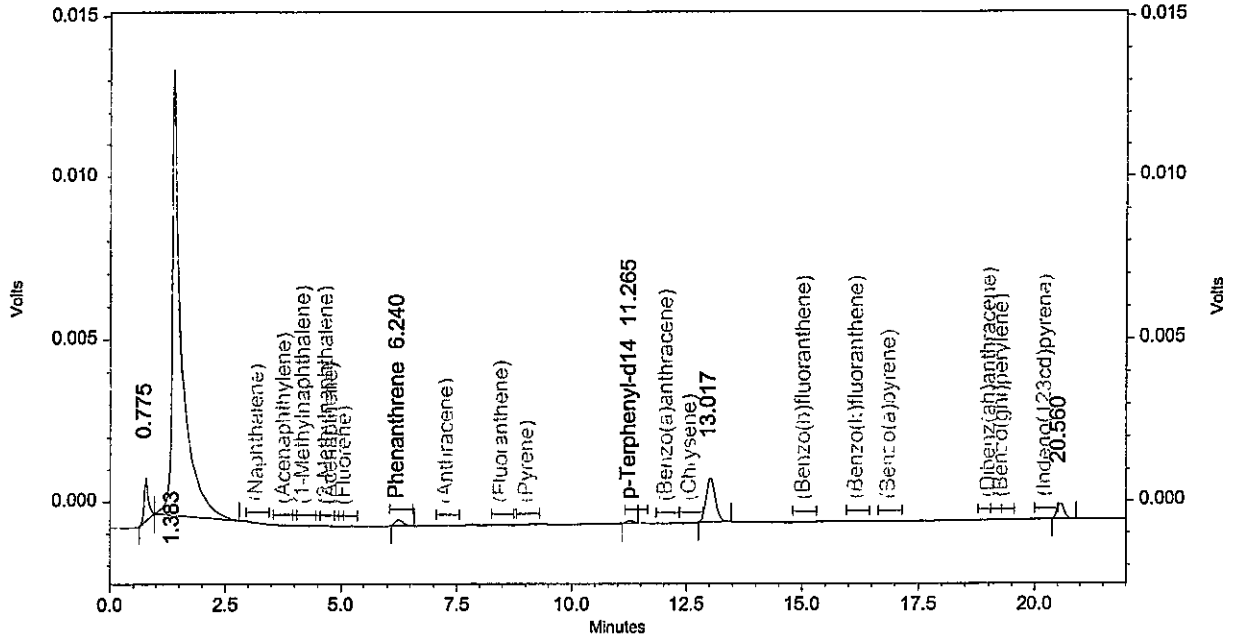
FORM I

CAS NUMBER	ANALYTE	CONCENTRATION	FLAG
91-20-3	Naphthalene	1.02	U
208-96-8	Acenaphthene	0.2	U
120-12-7	Anthracene	0.25	U
206-44-0	Fluoranthene	0.2	U
86-73-7	Fluorene	0.2	U
129-00-0	Pyrene	0.2	U
56-55-3	Benzo(a)anthracene	0.5	U
50-32-8	Benzo(a)pyrene	0.1	U
205-99-2	Benzo(b)fluoranthene	0.18	U
207-08-9	Benzo(k)fluoranthene	0.17	U
218-01-9	Chrysene	0.15	U
53-70-3	Dibenzo(a,h)anthracene	0.2	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.4	U
208-96-8	Acenaphthylene	0.2	U
191-24-2	Benzo(g,h,i)perylene	0.2	U
85-01-8	Phenanthrene	0.2	U
90-12-0	1-Methylnapthalene	1.02	U
91-57-6	2-Methylnaphthalene	1.02	U

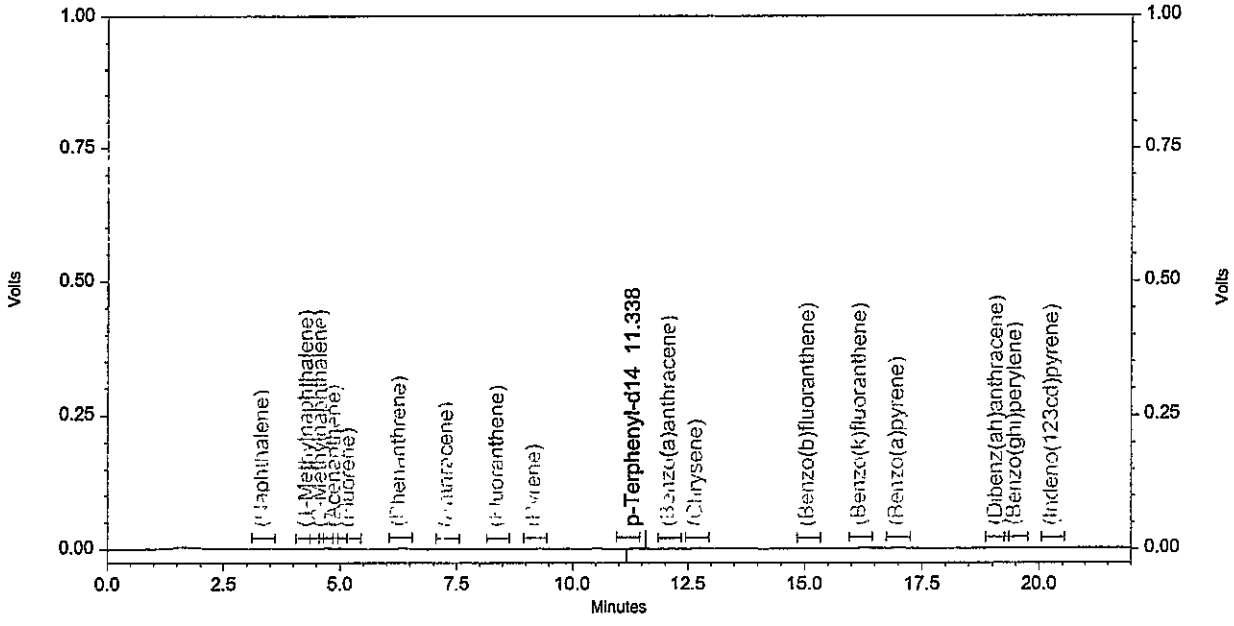
TEST AMERICA, INC. - HPLC Custom Report

Sample Name : 71056
Date/Time of analysis : 6/8/2001 13:52:11
Filename : C:\EZChrom Elite\Projects\Default\public\0608lc3.016
Method : C:\EZChrom Elite\Methods\Lc3pah0524.met

UV Detector



Fluorescence Detector



TEST AMERICA, INC. - HPLC Custom Report

Sample Name : 71056
Date/Time of analysis : 6/8/2001 13:52:11
Filename : C:\EZChrom Elite\Projects\Default\public\0608lc3.016
Method : C:\EZChrom Elite\Methods\Lc3pah0524.met

UV - Report

Name	Retention Time	Area	ESTD concentration
Naphthalene			0.00 BDL
Acenaphthylene			0.00 BDL
1-Methylnaphthalene			0.00 BDL
2-Methylnaphthalene			0.00 BDL
Acenapthene			0.00 BDL
Fluorene			0.00 BDL
Phenanthrene	6.24	2228	0.09
Anthracene			0.00 BDL
Fluoranthene			0.00 BDL
Pyrene			0.00 BDL
p-Terphenyl-d14	11.27	847	0.24
Benzo(a)anthracene			0.00 BDL
Chrysene			0.00 BDL
Benzo(b)fluoranthene			0.00 BDL
Benzo(k)fluoranthene			0.00 BDL
Benzo(a)pyrene			0.00 BDL
Dibenz(ah)anthracene			0.00 BDL
Benzo(ghi)perylene			0.00 BDL
Indeno(123cd)pyrene			0.00 BDL

Fluorescence Report

Name	Retention Time	Area	ESTD concentration
Naphthalene			0.00 BDL
1-Methylnaphthalene			0.00 BDL
2-Methylnaphthalene			0.00 BDL
Acenapthene			0.00 BDL
Fluorene			0.00 BDL
Phenanthrene			0.00 BDL
Anthracene			0.00 BDL
Fluoranthene			0.00 BDL
Pyrene			0.00 BDL
p-Terphenyl-d14	11.34	32582	0.41 ✓
Benzo(a)anthracene			0.00 BDL
Chrysene			0.00 BDL
Benzo(b)fluoranthene			0.00 BDL
Benzo(k)fluoranthene			0.00 BDL
Benzo(a)pyrene			0.00 BDL
Dibenz(ah)anthracene			0.00 BDL
Benzo(ghi)perylene			0.00 BDL
Indeno(123cd)pyrene			0.00 BDL

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INCORPORATED

Sample Identification

029-SMW10-Q2-01-12

Matrix: Water
pH:
Units: ug/l
Dilution Factor: 1.
Analysis Method: SW8310
Delivery Group: 239033
Instrument:
Vol Extracted: 1000 ml
Extract Vol: 1.00 ml

Lab Sample ID: 01-A71057
Date Sampled:: 5/24/01
Date Received: 5/26/01
Analysis Date: 6/ 8/01
Analysis Time: 10:14
Sample QC Group: 3139

Extraction Date: 5/29/01

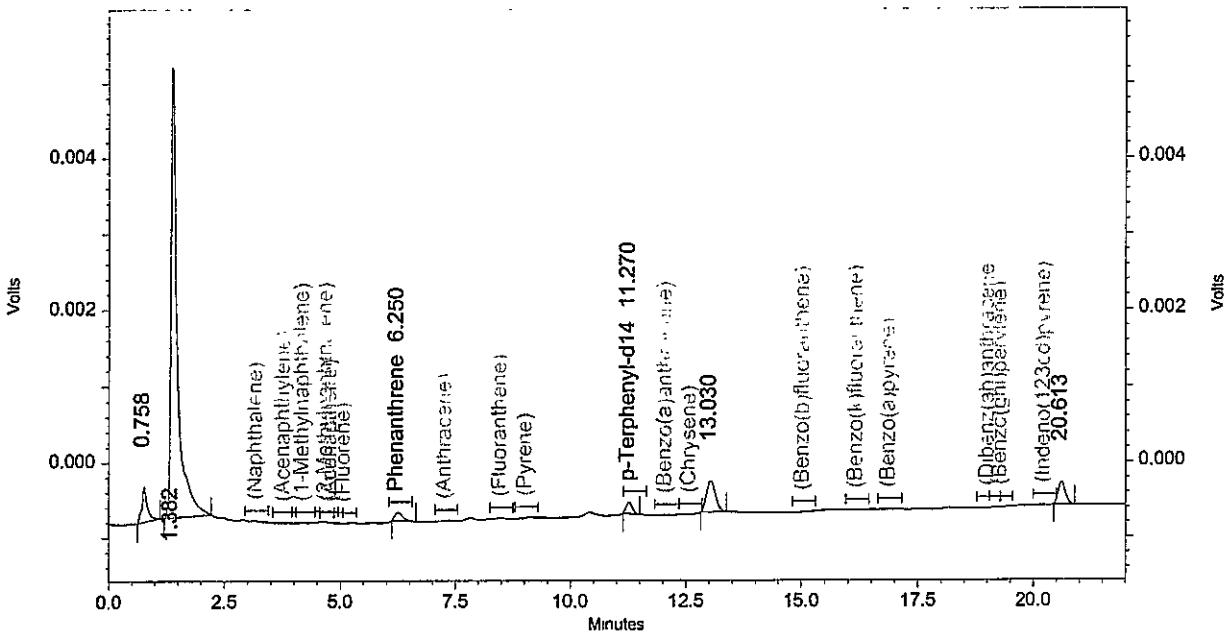
FORM I

CAS NUMBER	ANALYTE	CONCENTRATION	FLAG
91-20-3	Naphthalene	1	U
208-96-8	Acenaphthene	0.2	U
120-12-7	Anthracene	0.25	U
206-44-0	Fluoranthene	0.2	U
86-73-7	Fluorene	0.2	U
129-00-0	Pyrene	0.2	U
56-55-3	Benzo(a)anthracene	0.05	U
50-32-8	Benzo(a)pyrene	0.1	U
205-99-2	Benzo(b)fluoranthene	0.18	U
207-08-9	Benzo(k)fluoranthene	0.17	U
218-01-9	Chrysene	0.15	U
53-70-3	Dibenzo(a,h)anthracene	0.2	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.4	U
208-96-8	Acenaphthylene	0.2	U
191-24-2	Benzo(g,h,i)perylene	0.2	U
85-01-8	Phenanthrene	0.2	U
90-12-0	1-Methylnapthalene	1	U
91-57-6	2-Methylnaphthalene	1	U

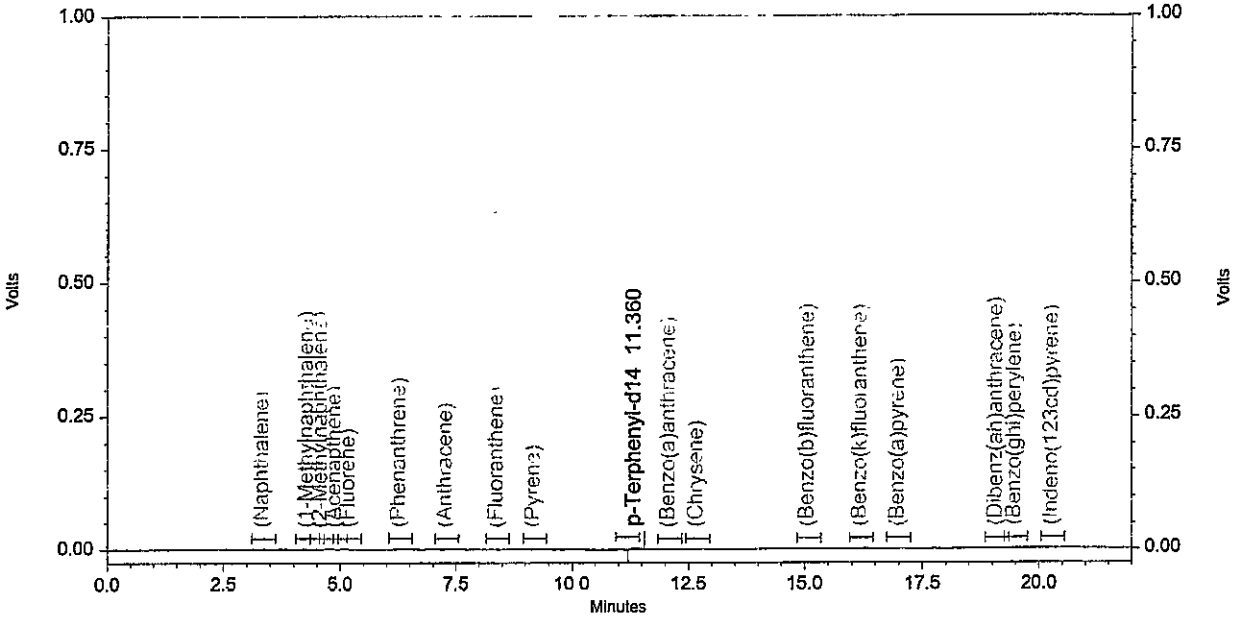
TEST AMERICA, INC. - HPLC Custom Report

Sample Name : 71057
Date/Time of analysis : 6/8/2001 14:16:25
Filename : C:\EZChrom Elite\Projects\Default\public\0608lc3.017
Method : C:\EZChrom Elite\Methods\Lc3pah0524.met

UV Detector



Fluorescence Detector



TEST AMERICA, INC. - HPLC Custom Report

Sample Name : 71057
Date/Time of analysis : 6/8/2001 14:16:25
Filename : C:\EZChrom Elite\Projects\Default\public\0608lc3.017
Method : C:\EZChrom Elite\Methods\Lc3pah0524.met

UV - Report

Name	Retention Time	Area	ESTD concentration
Naphthalene			0.00 BDL
Acenaphthylene			0.00 BDL
1-Methylnaphthalene			0.00 BDL
2-Methylnaphthalene			0.00 BDL
Acenapthene			0.00 BDL
Fluorene			0.00 BDL
Phenanthrene	6.25	1292	0.05
Anthracene			0.00 BDL
Fluoranthene			0.00 BDL
Pyrene			0.00 BDL
p-Terphenyl-d14	11.27	1426	0.41
Benzo(a)anthracene			0.00 BDL
Chrysene			0.00 BDL
Benzo(b)fluoranthene			0.00 BDL
Benzo(k)fluoranthene			0.00 BDL
Benzo(a)pyrene			0.00 BDL
Dibenz(ah)anthracene			0.00 BDL
Benzo(ghi)perylene			0.00 BDL
Indeno(123cd)pyrene			0.00 BDL

Fluorescence Report

Name	Retention Time	Area	ESTD concentration
Naphthalene			0.00 BDL
1-Methylnaphthalene			0.00 BDL
2-Methylnaphthalene			0.00 BDL
Acenapthene			0.00 BDL
Fluorene			0.00 BDL
Phenanthrene			0.00 BDL
Anthracene			0.00 BDL
Fluoranthene			0.00 BDL
Pyrene			0.00 BDL
p-Terphenyl-d14	11.36	36064	0.45
Benzo(a)anthracene			0.00 BDL
Chrysene			0.00 BDL
Benzo(b)fluoranthene			0.00 BDL
Benzo(k)fluoranthene			0.00 BDL
Benzo(a)pyrene			0.00 BDL
Dibenz(ah)anthracene			0.00 BDL
Benzo(ghi)perylene			0.00 BDL
Indeno(123cd)pyrene			0.00 BDL

TestAmerica
INCORPORATED

Sample Identification

029-SMW11-Q2-01-12

Matrix: Water
pH:
Units: ug/l
Dilution Factor: 1.
Analysis Method: SW8310
Delivery Group: 239033
Instrument:
Vol Extracted: 980. ml
Extract Vol: 1.00 ml

Lab Sample ID: 01-A71058
Date Sampled:: 5/23/01
Date Received: 5/26/01
Analysis Date: 6/ 8/01
Analysis Time: 10:14
Sample QC Group: 3139

Extraction Date: 5/29/01

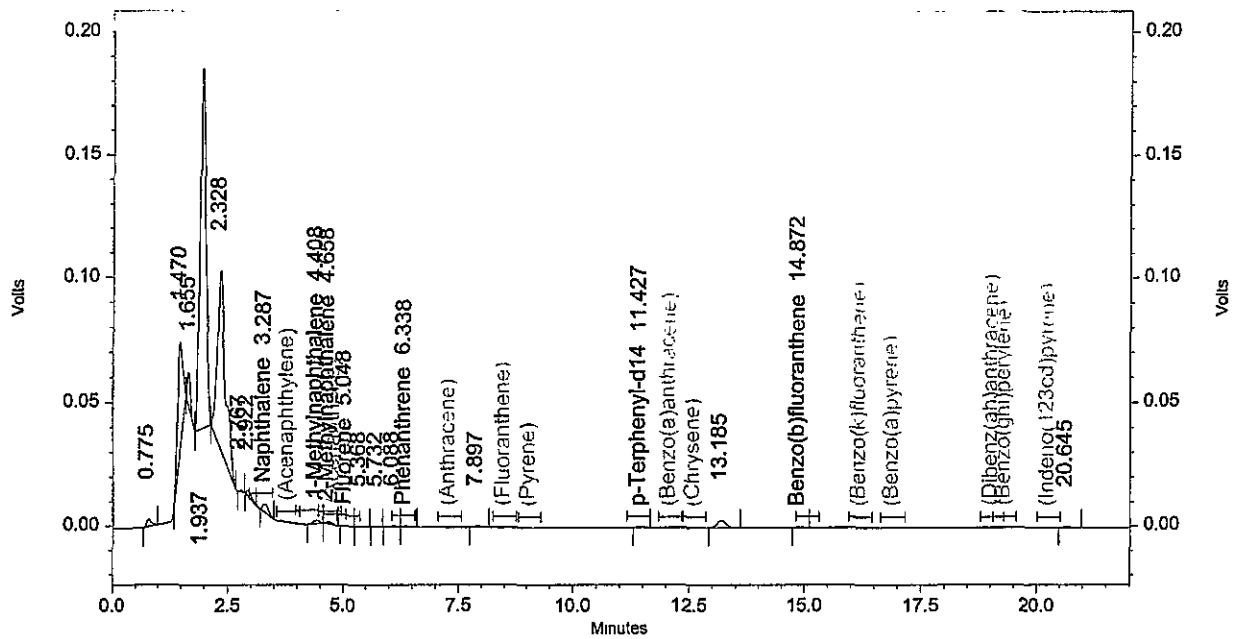
FORM I

CAS NUMBER	ANALYTE	CONCENTRATION	FLAG
91-20-3	Naphthalene	18.4	
208-96-8	Acenaphthene	0.2	U
120-12-7	Anthracene	0.25	U
206-44-0	Fluoranthene	0.2	U
86-73-7	Fluorene	0.2	U
129-00-0	Pyrene	0.2	U
56-55-3	Benzo(a)anthracene	0.05	U
50-32-8	Benzo(a)pyrene	0.1	U
205-99-2	Benzo(b)fluoranthene	0.18	U
207-08-9	Benzo(k)fluoranthene	0.17	U
218-01-9	Chrysene	0.15	U
53-70-3	Dibenzo(a,h)anthracene	0.2	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.41	U
208-96-8	Acenaphthylene	0.2	U
191-24-2	Benzo(g,h,i)perylene	0.2	U
85-01-8	Phenanthrene	0.2	U
90-12-0	1-Methylnapthalene	10.9	
91-57-6	2-Methylnaphthalene	7.88	

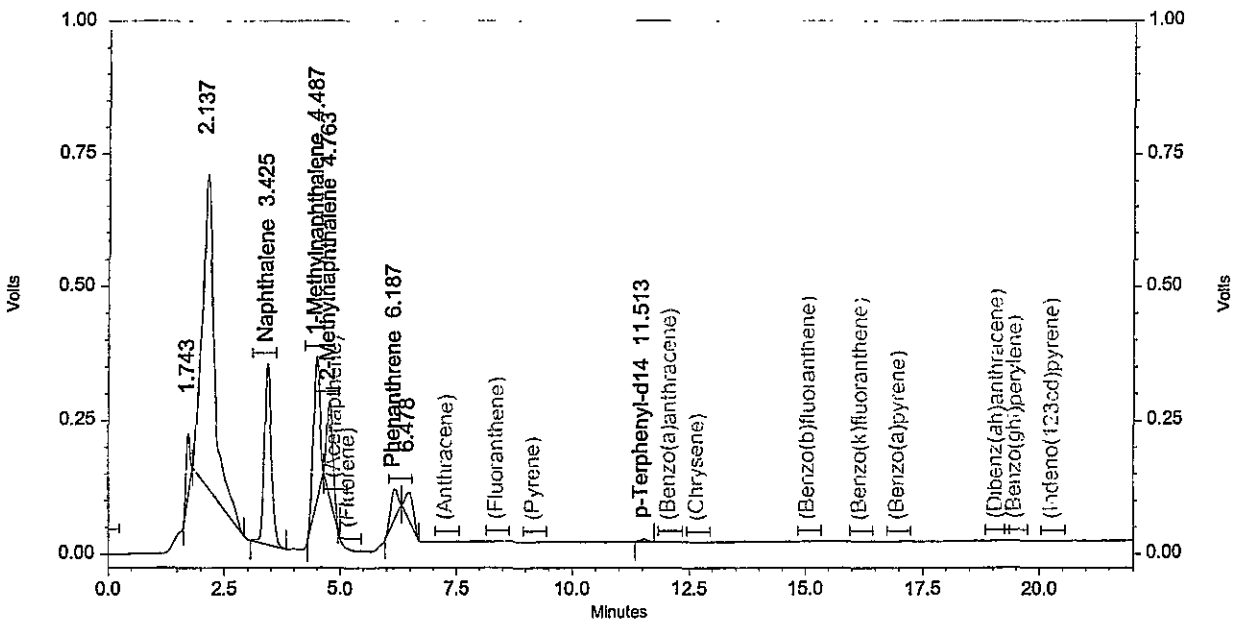
TEST AMERICA, INC. - HPLC Custom Report

Sample Name : 71058
Date/Time of analysis : 6/8/2001 14:40:38
Filename : C:\EZChrom Elite\Projects\Default\public\0608lc3.018
Method : C:\EZChrom Elite\Methods\Lc3pah0524.met

UV Detector



Fluorescence Detector



TEST AMERICA, INC. - HPLC Custom Report

Sample Name : 71058
Date/Time of analysis : 6/8/2001 14:40:38
Filename : C:\EZChrom Elite\Projects\Default\public\0608lc3.018
Method : C:\EZChrom Elite\Methods\Lc3pah0524.met

UV - Report

Name	Retention Time	Area	ESTD concentration
Naphthalene	3.29	28755	15.95
Acenaphthylene			0.00 BDL
1-Methylnaphthalene	4.41	11771	13.94
2-Methylnaphthalene	4.66	8047	5.83
Acenapthene			0.00 BDL
Fluorene	5.05	1689	0.23
Phenanthrene	6.34	2025	0.08
Anthracene			0.00 BDL
Fluoranthene			0.00 BDL
Pyrene			0.00 BDL
p-Terphenyl-d14	11.43	1865	0.54
Benzo(a)anthracene			0.00 BDL
Chrysene			0.00 BDL
Benzo(b)fluoranthene	14.87	2071	0.16
Benzo(k)fluoranthene			0.00 BDL
Benzo(a)pyrene			0.00 BDL
Dibenz(ah)anthracene			0.00 BDL
Benzo(ghi)perylene			0.00 BDL
Indeno(123cd)pyrene			0.00 BDL

Fluorescence Report

Name	Retention Time	Area	ESTD concentration
Naphthalene	3.42	3580382	18.04
1-Methylnaphthalene	4.49	2586467	10.69
2-Methylnaphthalene	4.76	1691675	7.72
Acenapthene			0.00 BDL
Fluorene			0.00 BDL
Phenanthrene	6.19	603217	2.75
Anthracene			0.00 BDL
Fluoranthene			0.00 BDL
Pyrene			0.00 BDL
p-Terphenyl-d14	11.51	47573	0.60
Benzo(a)anthracene			0.00 BDL
Chrysene			0.00 BDL
Benzo(b)fluoranthene			0.00 BDL
Benzo(k)fluoranthene			0.00 BDL
Benzo(a)pyrene			0.00 BDL
Dibenz(ah)anthracene			0.00 BDL
Benzo(ghi)perylene			0.00 BDL
Indeno(123cd)pyrene			0.00 BDL

TestAmerica
INCORPORATED

Sample Identification

029-SMW12-Q2-01-12

Matrix: Water
pH:
Units: ug/l
Dilution Factor: 1.
Analysis Method: SW8310
Delivery Group: 239033
Instrument:
Vol Extracted: 990. ml
Extract Vol: 1.00 ml

Lab Sample ID: 01-A71059
Date Sampled:: 5/23/01
Date Received: 5/26/01
Analysis Date: 6/ 8/01
Analysis Time: 10:14
Sample QC Group: 3139

Extraction Date: 5/29/01

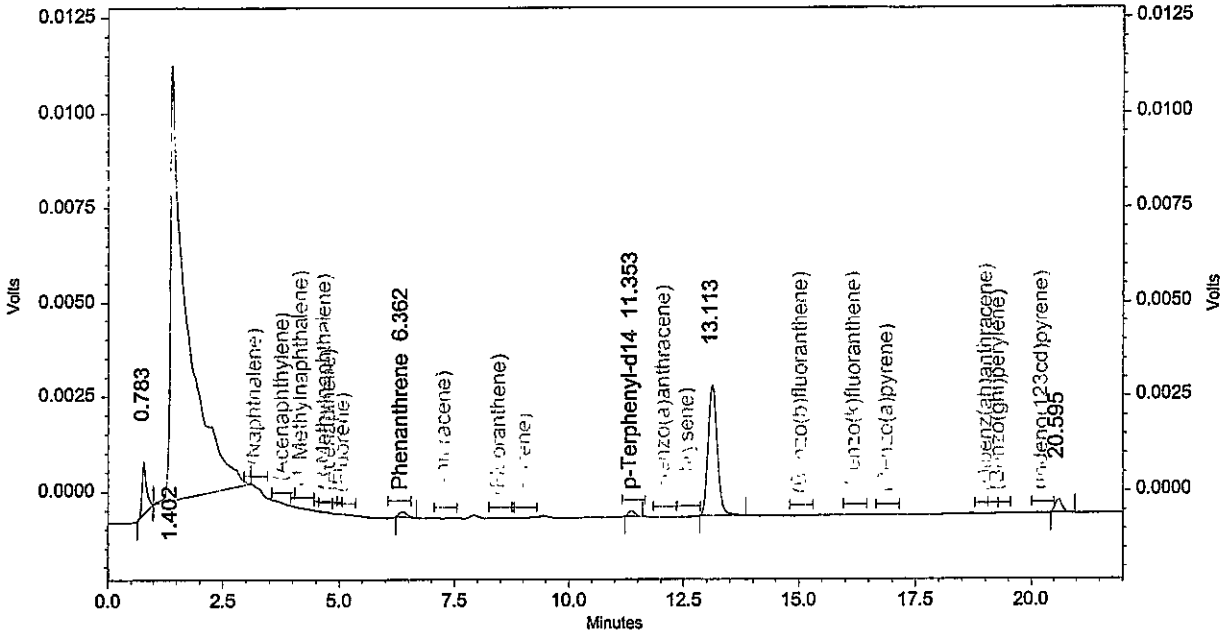
FORM I

CAS NUMBER	ANALYTE	CONCENTRATION	FLAG
91-20-3	Naphthalene	1.01	U
208-96-8	Acenaphthene	0.2	U
120-12-7	Anthracene	0.25	U
206-44-0	Fluoranthene	0.2	U
86-73-7	Fluorene	0.2	U
129-00-0	Pyrene	0.2	U
56-55-3	Benzo(a)anthracene	0.5	U
50-32-8	Benzo(a)pyrene	0.1	U
205-99-2	Benzo(b)fluoranthene	0.18	U
207-08-9	Benzo(k)fluoranthene	0.17	U
218-01-9	Chrysene	0.15	U
53-70-3	Dibenzo(a,h)anthracene	0.2	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.4	U
208-96-8	Acenaphthylene	0.2	U
191-24-2	Benzo(g,h,i)perylene	0.2	U
85-01-8	Phenanthrene	0.2	U
90-12-0	1-Methylnapthalene	1.01	U
91-57-6	2-Methylnaphthalene	1.01	U

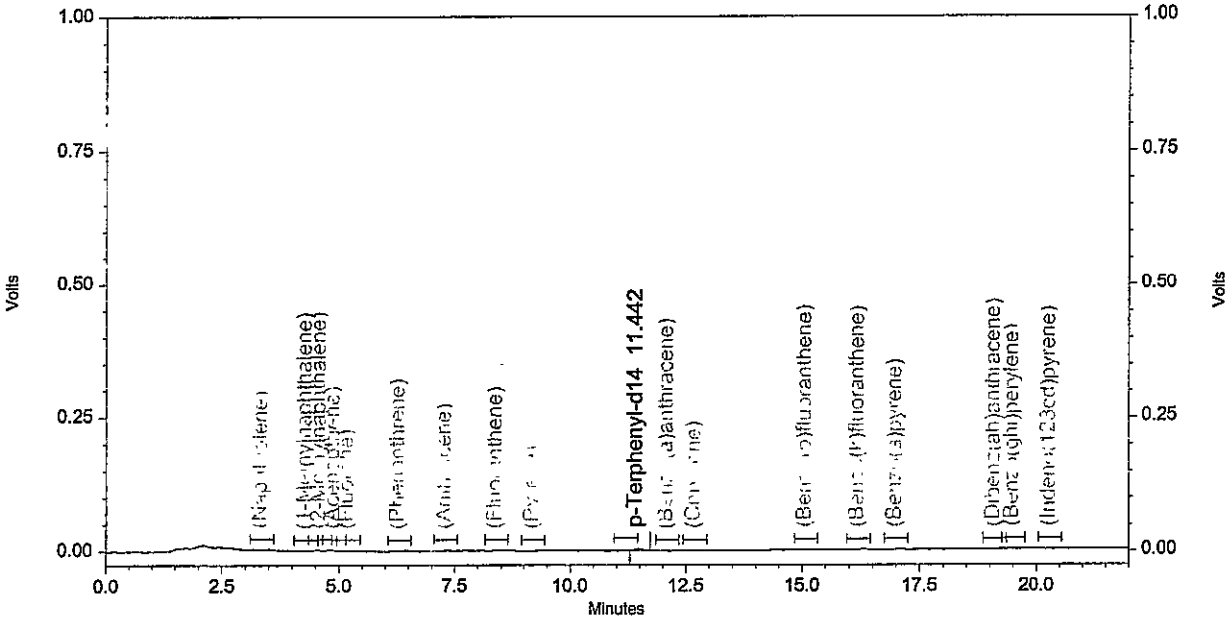
TEST AMERICA, INC. - HPLC Custom Report

Sample Name : 71059
Date/Time of analysis : 6/8/2001 15:04:53
Filename : C:\EZChrom Elite\Projects\Default\public\0608lc3.019
Method : C:\EZChrom Elite\Methods\Lc3pah0524.met

UV Detector



Fluorescence Detector



TEST AMERICA, INC. - HPLC Custom Report

Sample Name : 71059
Date/Time of analysis : 6/8/2001 15:04:53
Filename : C:\EZChrom Elite\Projects\Default\public\0608lc3.019
Method : C:\EZChrom Elite\Methods\Lc3pah0524.met

UV - Report

Name	Retention Time	Area	ESTD concentration
Naphthalene			0.00 BDL
Acenaphthylene			0.00 BDL
1-Methylnaphthalene			0.00 BDL
2-Methylnaphthalene			0.00 BDL
Acenapthene			0.00 BDL
Fluorene			0.00 BDL
Phenanthrene	6.36	1763	0.07
Anthracene			0.00 BDL
Fluoranthene			0.00 BDL
Pyrene			0.00 BDL
p-Terphenyl-d14	11.35	1445	0.42
Benzo(a)anthracene			0.00 BDL
Chrysene			0.00 BDL
Benzo(b)fluoranthene			0.00 BDL
Benzo(k)fluoranthene			0.00 BDL
Benzo(a)pyrene			0.00 BDL
Dibenz(ah)anthracene			0.00 BDL
Benzo(ghi)perylene			0.00 BDL
Indeno(123cd)pyrene			0.00 BDL

Fluorescence Report

Name	Retention Time	Area	ESTD concentration
Naphthalene			0.00 BDL
1-Methylnaphthalene			0.00 BDL
2-Methylnaphthalene			0.00 BDL
Acenapthene			0.00 BDL
Fluorene			0.00 BDL
Phenanthrene			0.00 BDL
Anthracene			0.00 BDL
Fluoranthene			0.00 BDL
Pyrene			0.00 BDL
p-Terphenyl-d14	11.44	37743	0.47
Benzo(a)anthracene			0.00 BDL
Chrysene			0.00 BDL
Benzo(b)fluoranthene			0.00 BDL
Benzo(k)fluoranthene			0.00 BDL
Benzo(a)pyrene			0.00 BDL
Dibenz(ah)anthracene			0.00 BDL
Benzo(ghi)perylene			0.00 BDL
Indeno(123cd)pyrene			0.00 BDL

TestAmerica
INCORPORATED

Sample Identification

029-DMW01-Q2-01-12

Matrix: Water
pH:
Units: ug/l
Dilution Factor: 1.
Analysis Method: SW8310
Delivery Group: 239033
Instrument:
Vol Extracted: 990. ml
Extract Vol: 1.00 ml

Lab Sample ID: 01-A71060
Date Sampled:: 5/23/01
Date Received: 5/26/01
Analysis Date: 6/ 8/01
Analysis Time: 10:14
Sample QC Group: 3139

Extraction Date: 5/29/01

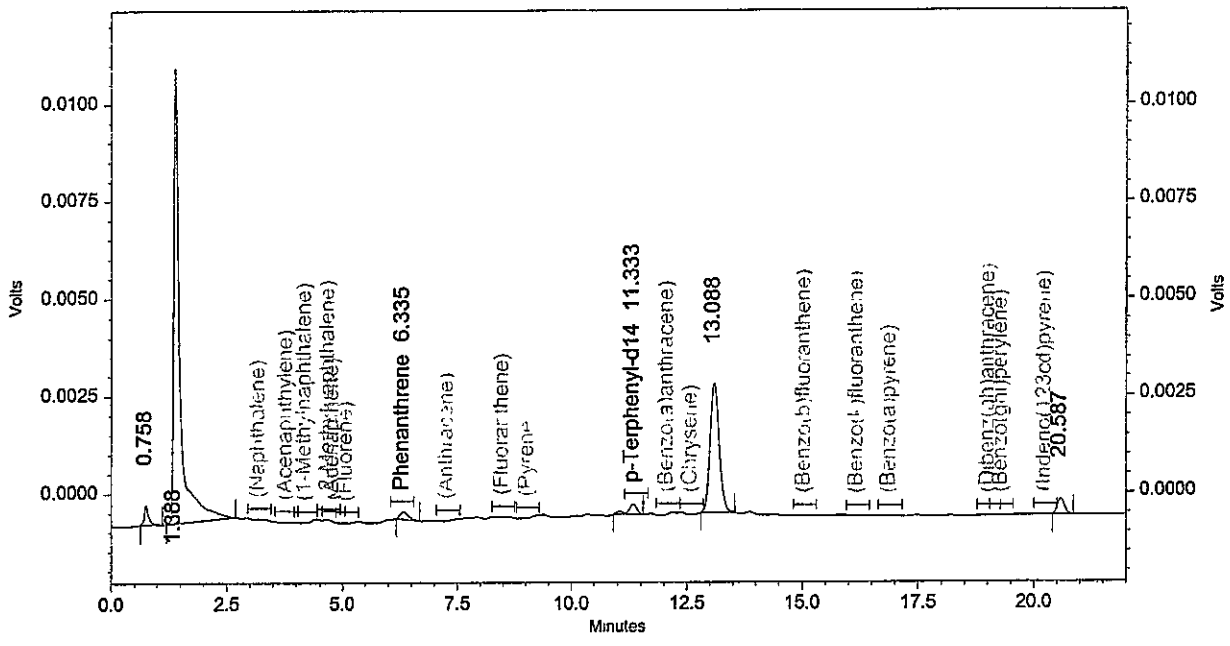
FORM I

CAS NUMBER	ANALYTE	CONCENTRATION	FLAG
91-20-3	Naphthalene	1.01	U
208-96-8	Acenaphthene	0.2	U
120-12-7	Anthracene	0.25	U
206-44-0	Fluoranthene	0.2	U
86-73-7	Fluorene	0.2	U
129-00-0	Pyrene	0.2	U
56-55-3	Benzo(a)anthracene	0.05	U
50-32-8	Benzo(a)pyrene	0.1	U
205-99-2	Benzo(b)fluoranthene	0.18	U
207-08-9	Benzo(k)fluoranthene	0.17	U
218-01-9	Chrysene	0.15	U
53-70-3	Dibenzo(a,h)anthracene	0.2	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.4	U
208-96-8	Acenaphthylene	0.2	U
191-24-2	Benzo(g,h,i)perylene	0.2	U
85-01-8	Phenanthrene	0.2	U
90-12-0	1-Methylnapthalene	1.01	U
91-57-6	2-Methylnaphthalene	1.01	U

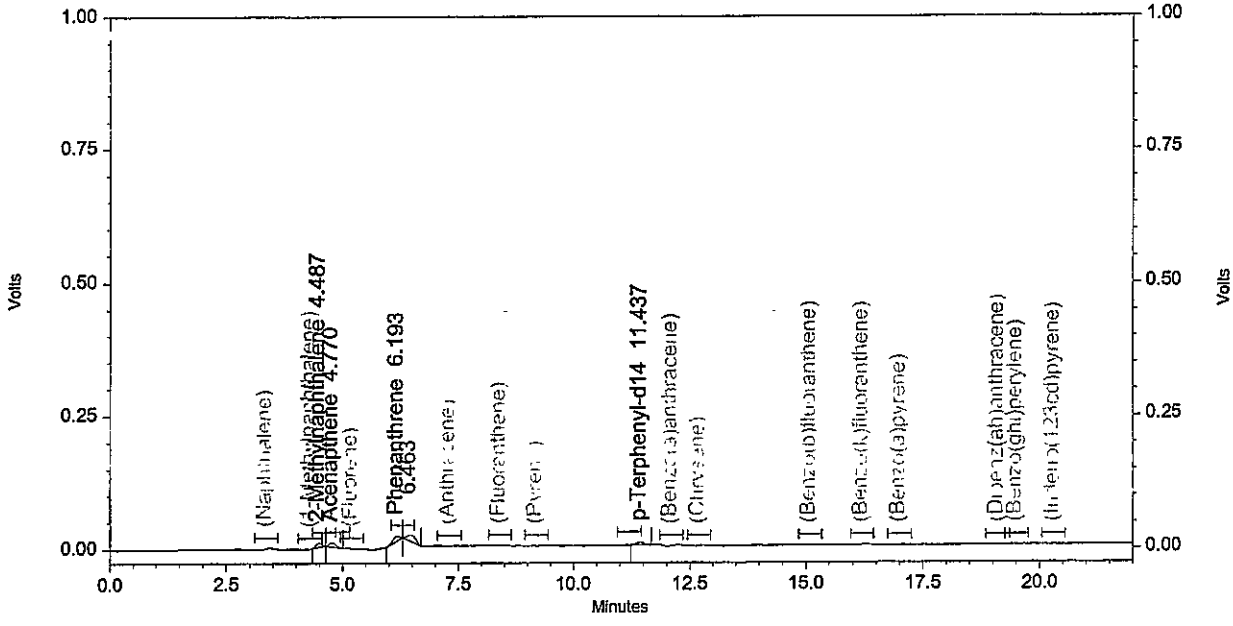
TEST AMERICA, INC. - HPLC Custom Report

Sample Name : 71060
Date/Time of analysis : 6/8/2001 15:29:05
Filename : C:\EZChrom Elite\Projects\Default\public\0608lc3.020
Method : C:\EZChrom Elite\Methods\Lc3pah0524.met

UV Detector



Fluorescence Detector



TEST AMERICA, INC. - HPLC Custom Report

Sample Name : 71060
Date/Time of analysis : 6/8/2001 15:29:05
Filename : C:\EZChrom Elite\Projects\Default\public\0608lc3.020
Method : C:\EZChrom Elite\Methods\Lc3pah0524.met

UV - Report

Name	Retention Time	Area	ESTD concentration
Naphthalene			0.00 BDL
Acenaphthylene			0.00 BDL
1-Methylnaphthalene			0.00 BDL
2-Methylnaphthalene			0.00 BDL
Acenapthene			0.00 BDL
Fluorene			0.00 BDL
Phenanthrene	6.34	2453	0.10
Anthracene			0.00 BDL
Fluoranthene			0.00 BDL
Pyrene			0.00 BDL
p-Terphenyl-d14	11.33	3536	1.02
Benzo(a)anthracene			0.00 BDL
Chrysene			0.00 BDL
Benzo(b)fluoranthene			0.00 BDL
Benzo(k)fluoranthene			0.00 BDL
Benzo(a)pyrene			0.00 BDL
Dibenz(ah)anthracene			0.00 BDL
Benzo(ghi)perylene			0.00 BDL
Indeno(123cd)pyrene			0.00 BDL

Fluorescence Report

Name	Retention Time	Area	ESTD concentration
Naphthalene			0.00 BDL
1-Methylnaphthalene			0.00 BDL
2-Methylnaphthalene	4.49	71939	0.33
Acenapthene	4.77	82234	0.16
Fluorene			0.00 BDL
Phenanthrene	6.19	102018	0.47
Anthracene			0.00 BDL
Fluoranthene			0.00 BDL
Pyrene			0.00 BDL
p-Terphenyl-d14	11.44	55184	0.69 ✓
Benzo(a)anthracene			0.00 BDL
Chrysene			0.00 BDL
Benzo(b)fluoranthene			0.00 BDL
Benzo(k)fluoranthene			0.00 BDL
Benzo(a)pyrene			0.00 BDL
Dibenz(ah)anthracene			0.00 BDL
Benzo(ghi)perylene			0.00 BDL
Indeno(123cd)pyrene			0.00 BDL

TestAmerica
INCORPORATED

Sample Identification

029-DUP-Q2-01-12

Matrix: Water
pH:
Units: ug/l
Dilution Factor: 1.
Analysis Method: SW8310
Delivery Group: 239033
Instrument:
Vol Extracted: 980. ml
Extract Vol: 1.00 ml

Lab Sample ID: 01-A71061
Date Sampled:: 5/24/01
Date Received: 5/26/01
Analysis Date: 6/ 8/01
Analysis Time: 10:14
Sample QC Group: 3139

Extraction Date: 5/29/01

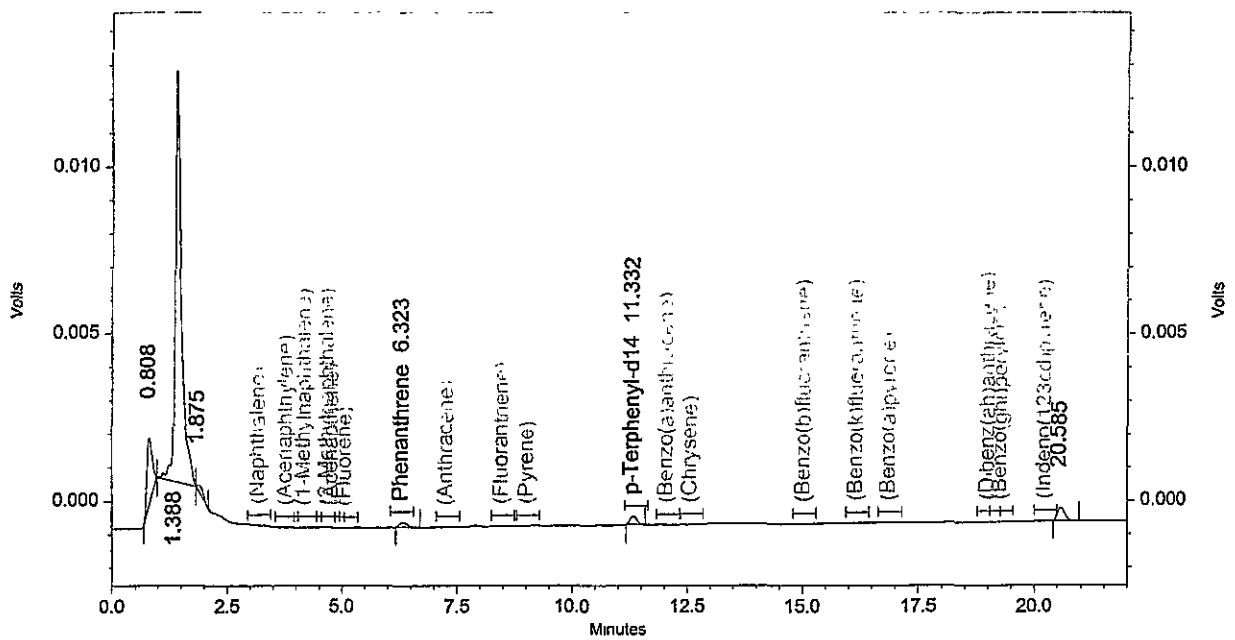
FORM I

CAS NUMBER	ANALYTE	CONCENTRATION	FLAG
91-20-3	Naphthalene	1.02	U
208-96-8	Acenaphthene	0.2	U
120-12-7	Anthracene	0.25	U
206-44-0	Fluoranthene	0.2	U
86-73-7	Fluorene	0.2	U
129-00-0	Pyrene	0.2	U
56-55-3	Benzo(a)anthracene	0.05	U
50-32-8	Benzo(a)pyrene	0.1	U
205-99-2	Benzo(b)fluoranthene	0.18	U
207-08-9	Benzo(k)fluoranthene	0.17	U
218-01-9	Chrysene	0.15	U
53-70-3	Dibenzo(a,h)anthracene	0.2	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.4	U
208-96-8	Acenaphthylene	0.2	U
191-24-2	Benzo(g,h,i)perylene	0.2	U
85-01-8	Phenanthrene	0.2	U
90-12-0	1-Methylnapthalene	1.02	U
91-57-6	2-Methylnaphthalene	1.02	U

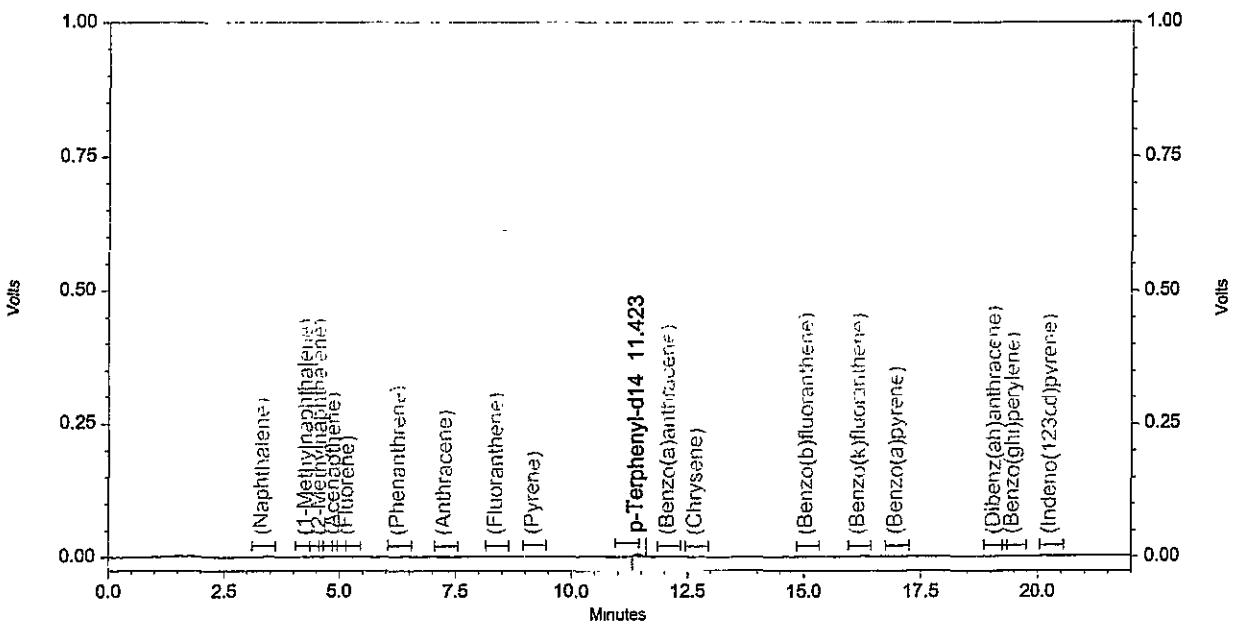
TEST AMERICA, INC. - HPLC Custom Report

Sample Name : 71061
Date/Time of analysis : 6/8/2001 15:53:19
Filename : C:\EZChrom Elite\Projects\Default\public\0608lc3.021
Method : C:\EZChrom Elite\Methods\Lc3pah0524.met

UV Detector



Fluorescence Detector



TEST AMERICA, INC. - HPLC Custom Report

Sample Name : 71061
Date/Time of analysis : 6/8/2001 15:53:19
Filename : C:\EZChrom Elite\Projects\Default\public\0608lc3.021
Method : C:\EZChrom Elite\Methods\Lc3pah0524.met

UV - Report

Name	Retention Time	Area	ESTD concentration
Naphthalene			0.00 BDL
Acenaphthylene			0.00 BDL
1-Methylnaphthalene			0.00 BDL
2-Methylnaphthalene			0.00 BDL
Acenapthene			0.00 BDL
Fluorene			0.00 BDL
Phenanthrene	6.32	1685	0.07
Anthracene			0.00 BDL
Fluoranthene			0.00 BDL
Pyrene			0.00 BDL
p-Terphenyl-d14	11.33	2422	0.70
Benzo(a)anthracene			0.00 BDL
Chrysene			0.00 BDL
Benzo(b)fluoranthene			0.00 BDL
Benzo(k)fluoranthene			0.00 BDL
Benzo(a)pyrene			0.00 BDL
Dibenz(ah)anthracene			0.00 BDL
Benzo(ghi)perylene			0.00 BDL
Indeno(123cd)pyrene			0.00 BDL

Fluorescence Report

Name	Retention Time	Area	ESTD concentration
Naphthalene			0.00 BDL
1-Methylnaphthalene			0.00 BDL
2-Methylnaphthalene			0.00 BDL
Acenapthene			0.00 BDL
Fluorene			0.00 BDL
Phenanthrene			0.00 BDL
Anthracene			0.00 BDL
Fluoranthene			0.00 BDL
Pyrene			0.00 BDL
p-Terphenyl-d14	11.42	40326	0.51
Benzo(a)anthracene			0.00 BDL
Chrysene			0.00 BDL
Benzo(b)fluoranthene			0.00 BDL
Benzo(k)fluoranthene			0.00 BDL
Benzo(a)pyrene			0.00 BDL
Dibenz(ah)anthracene			0.00 BDL
Benzo(ghi)perylene			0.00 BDL
Indeno(123cd)pyrene			0.00 BDL

TestAmerica
INCORPORATED

Sample Identification

029-EQB-Q2-01-12

Matrix: Water
pH:
Units: ug/l
Dilution Factor: 1.
Analysis Method: SW8310
Delivery Group: 239033
Instrument:
Vol Extracted: 920. ml
Extract Vol: 1.00 ml

Lab Sample ID: 01-A71062
Date Sampled:: 5/24/01
Date Received: 5/26/01
Analysis Date: 6/ 8/01
Analysis Time: 10:14
Sample QC Group: 3139

Extraction Date: 5/29/01

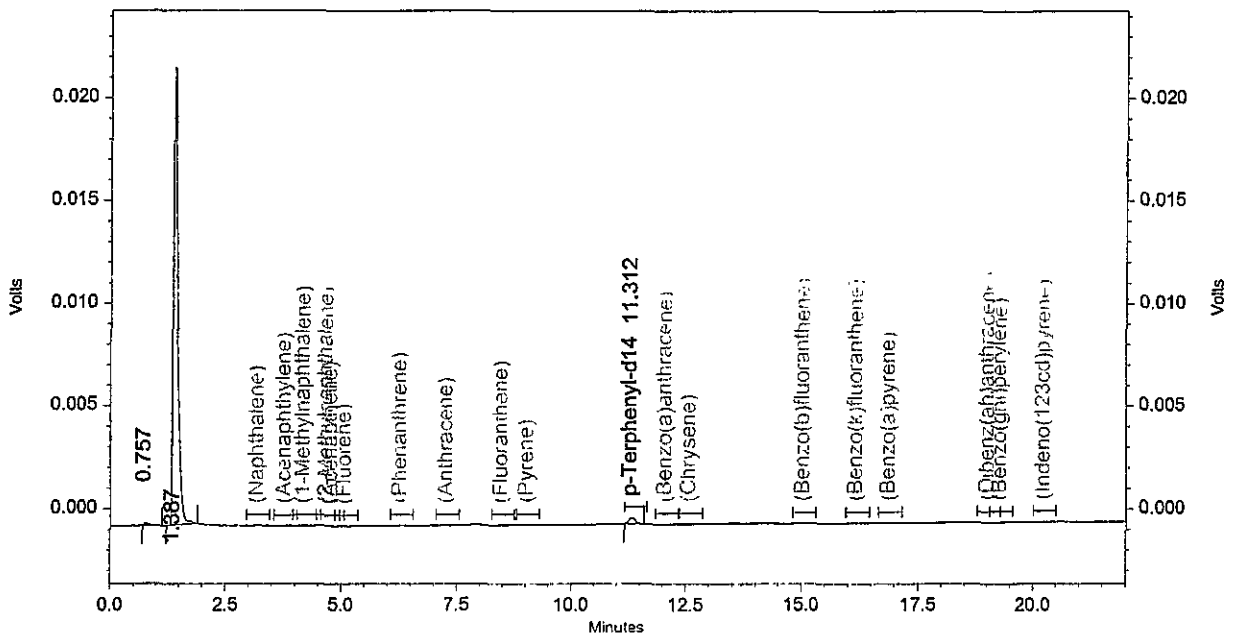
FORM I

CAS NUMBER	ANALYTE	CONCENTRATION	FLAG
91-20-3	Naphthalene	1.09	U
208-96-8	Acenaphthene	0.21	U
120-12-7	Anthracene	0.27	U
206-44-0	Fluoranthene	0.21	U
86-73-7	Fluorene	0.21	U
129-00-0	Pyrene	0.21	U
56-55-3	Benzo(a)anthracene	0.5	U
50-32-8	Benzo(a)pyrene	0.11	U
205-99-2	Benzo(b)fluoranthene	0.2	U
207-08-9	Benzo(k)fluoranthene	0.18	U
218-01-9	Chrysene	0.16	U
53-70-3	Dibenzo(a,h)anthracene	0.21	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.43	U
208-96-8	Acenaphthylene	0.21	U
191-24-2	Benzo(g,h,i)perylene	0.21	U
85-01-8	Phenanthrene	0.21	U
90-12-0	1-Methylnapthalene	1.09	U
91-57-6	2-Methylnaphthalene	1.09	U

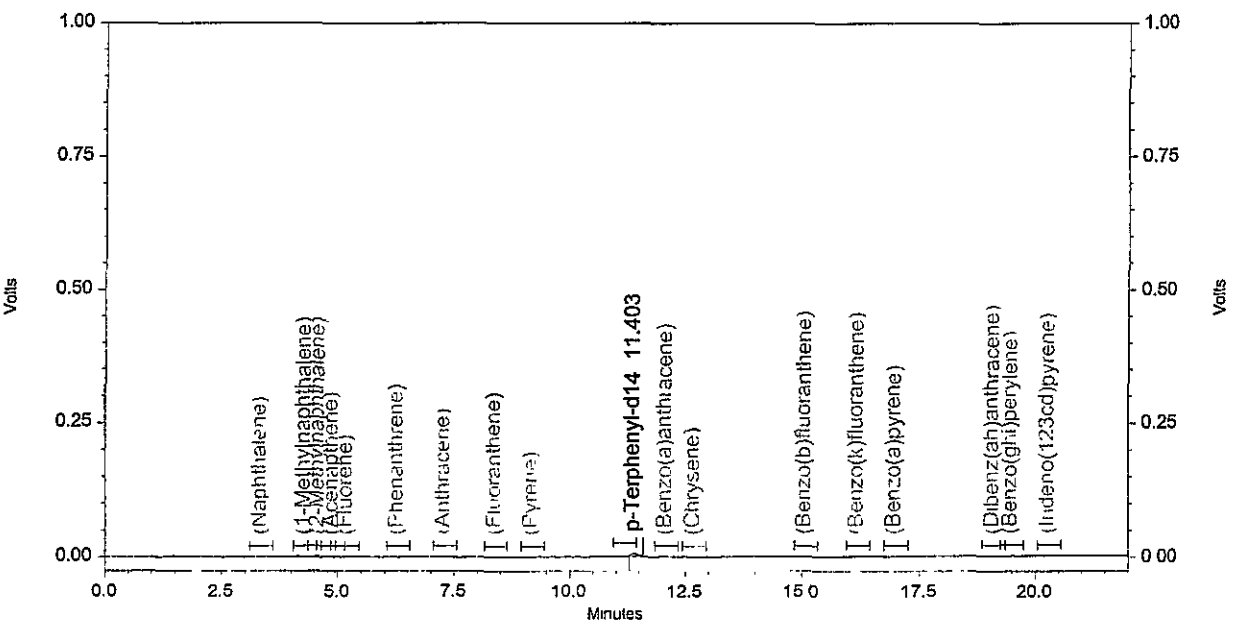
TEST AMERICA, INC. - HPLC Custom Report

Sample Name : 71062
Date/Time of analysis : 6/8/2001 16:17:32
Filename : C:\EZChrom Elite\Projects\Default\public\0608lc3.022
Method : C:\EZChrom Elite\Methods\Lc3pah0524.met

UV Detector



Fluorescence Detector



TEST AMERICA, INC. - HPLC Custom Report

Sample Name : 71062
Date/Time of analysis : 6/8/2001 16:17:32
Filename : C:\EZChrom Elite\Projects\Default\public\0608lc3.022
Method : C:\EZChrom Elite\Methods\Lc3pah0524.met

UV - Report

Name	Retention Time	Area	ESTD concentration
Naphthalene			0.00 BDL
Acenaphthylene			0.00 BDL
1-Methylnaphthalene			0.00 BDL
2-Methylnaphthalene			0.00 BDL
Acenapthene			0.00 BDL
Fluorene			0.00 BDL
Phenanthrene			0.00 BDL
Anthracene			0.00 BDL
Fluoranthene			0.00 BDL
Pyrene			0.00 BDL
p-Terphenyl-d14	11.31	3030	0.87
Benzo(a)anthracene			0.00 BDL
Chrysene			0.00 BDL
Benzo(b)fluoranthene			0.00 BDL
Benzo(k)fluoranthene			0.00 BDL
Benzo(a)pyrene			0.00 BDL
Dibenz(ah)anthracene			0.00 BDL
Benzo(ghi)perylene			0.00 BDL
Indeno(123cd)pyrene			0.00 BDL

Fluorescence Report

Name	Retention Time	Area	ESTD concentration
Naphthalene			0.00 BDL
1-Methylnaphthalene			0.00 BDL
2-Methylnaphthalene			0.00 BDL
Acenapthene			0.00 BDL
Fluorene			0.00 BDL
Phenanthrene			0.00 BDL
Anthracene			0.00 BDL
Fluoranthene			0.00 BDL
Pyrene			0.00 BDL
p-Terphenyl-d14	11.40	46375	0.58 ✓
Benzo(a)anthracene			0.00 BDL
Chrysene			0.00 BDL
Benzo(b)fluoranthene			0.00 BDL
Benzo(k)fluoranthene			0.00 BDL
Benzo(a)pyrene			0.00 BDL
Dibenz(ah)anthracene			0.00 BDL
Benzo(ghi)perylene			0.00 BDL
Indeno(123cd)pyrene			0.00 BDL

6C

8310 PAH INITIAL CALIBRATION

Lab Name : Test America **Insturment ID:** HPLC 3

SDG # 239033 **Calibration Date :** 05/24/01

UV CHANNEL

20 initial cal	RF=1	0524hp3.015
10.0 initial cal	RF=2	0524hp3.016
5.0 initial cal	RF=3	0524hp3.017
2.5 initial cal	RF=4	0524hp3.018
1.0 initial cal	RF=5	0524hp3.019
.5 initial cal	RF=6	0524hp3.024
.25 initial cal	RF=7	0524hp3.025
.1 initial cal	RF=8	0524hp3.026
.05 initial cal	RF=9	0524hp3.027

COMPOUND	RF 1	RF 2	RF 3	RF 4	RF 5	RF 6	RF 7	RF 8	RF 9	RF %
	0.05	0.1	0.25	0.5	1	2.5	5	10	20	RSD
Napthalene				6.58E-04	5.20E-04	0.000558	0.000548	0.00053	0.000512873	9.6
Acenapthylene		7.25E-04	8.14E-04	9.33E-04	7.25E-04	7.91E-04	7.59E-04	0.000741	0.000707564	10
1-Methyl-naphthalene					0.001144	0.001263	0.001209	0.001175	0.0011288	4.5
2-Methyl-naphthalene					0.000713	0.000765	0.000737	0.000721	0.000688042	3.9
Acenapthene		0.000204	0.002577	0.003311	0.002404	0.003222	0.003181	0.03037	0.002927	16
Flourene		1.29E-04	1.36E-04	1.47E-04	1.20E-04	1.36E-04	1.31E-04			6.5
Phenanthrene		4.43E-05	4.32E-05	4.36E-05	4.01E-05	4.22E-05	4.04E-05	3.95E-05	3.75E-05	5.7
Anthracene	1.75E-05	1.74E-05	1.76E-05	1.79E-05	1.65E-05	1.74E-05	1.68E-05	1.66E-05	1.60E-05	3.6
Flouranthene		0.000183	2.30E-04	0.000205	1.73E-04	0.000185	0.000172	1.67E-04	1.58E-04	13
Pyrene		0.000216	0.000259	0.000279	0.000232	2.48E-04	2.36E-04	2.31E-04		8.7
Benzo(a)anthracene	9.06E-05	1.17E-04	9.77E-05	9.57E-05	8.22E-05	8.64E-05	8.22E-05	8.01E-05	7.50E-07	14
Chrysene	5.66E-05	5.85E-05	4.81E-05	5.74E-05	5.43E-05	6.01E-05	5.84E-05	5.78E-05	5.44E-05	9.4
Benzo(b)flouranthen	7.63E-05	.17431-00	8.50E-05	8.26E-07	7.37E-05	7.74E-05	7.40E-05	7.20E-05	6.75E-05	9.6
Benzo(k)flouranthen	8.87E-05	1.30E-04	9.65E-05	9.37E-05	8.42E-05	8.80E-05	8.40E-05	8.21E-05	7.72E-05	17
Benzo(a)pyrene	7.85E-05	1.09E-04	9.52E-05	9.46E-05	8.15E-05	8.63E-05	8.24E-05	8.05E-05	7.54E-05	12
Dibenz(ah)anthrace	0.00046	0.000465	0.000464	0.00055	0.000436	0.000441	0.000419	0.000403	0.000375806	11
Benzo(ghi)Perylene	0.0002	0.000215	0.000331	0.000246	0.000225	2.38E-04	0.000226	0.000219	0.000203577	17
Indeno(123cd)pyren	6.65E-05	8.81E-05	7.81E-05	7.80E-05	6.75E-05	7.20E-05	6.90E-05	6.74E-05	6.34E-05	11

AVERAGE RF % RSD	10.1

6C

8310 PAH INITIAL CALIBRATION

Lab Name : Test America **Insturment ID:** HPLC 3

SDG # 239033 **Calibration Date :** 05/24/01

FLOURECENSE CHANNEL

20 initial cal	RF=1	0524hp3.015
10.0 initial cal	RF=2	0524hp3.016
5.0 initial cal	RF=3	0524hp3.017
2.5 initial cal	RF=4	0524hp3.018
1.0 initial cal	RF=5	0524hp3.019
.5 initial cal	RF=6	0524hp3.024
.25 initial cal	RF=7	0524hp3.025
.1 initial cal	RF=8	0524hp3.026
.05 initial cal	RF=9	0524hp3.027

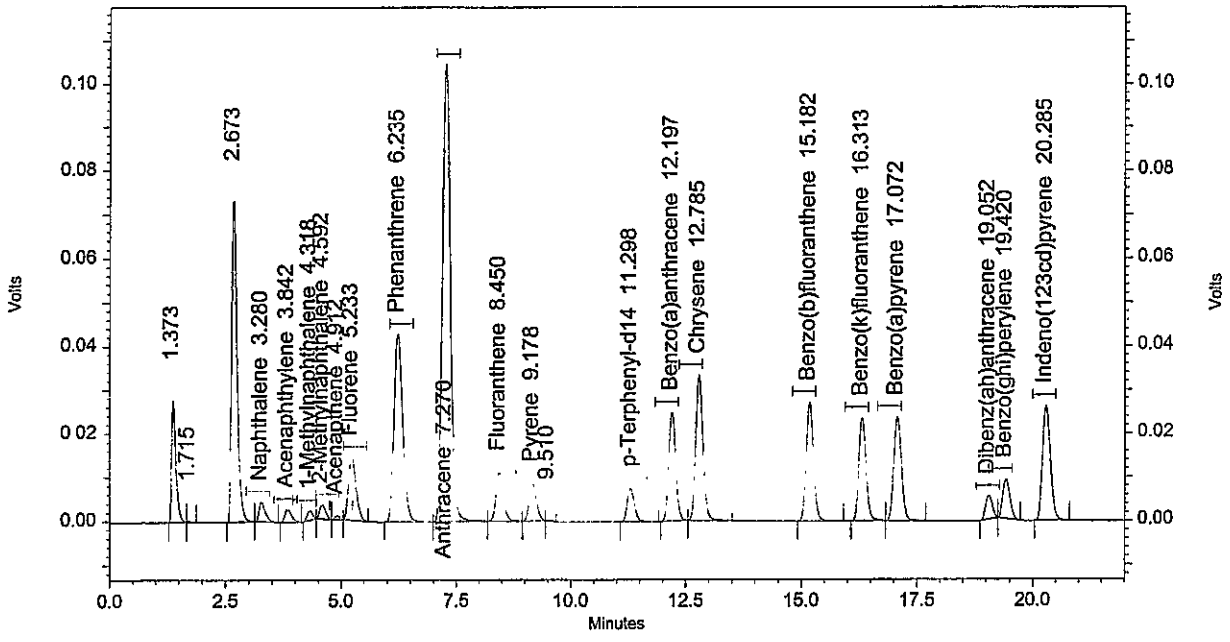
COMPOUND	RF 1	RF 2	RF 3	RF 4	RF 5	RF 6	RF 7	RF 8	RF 9	RF %
	0.05	0.1	0.25	0.5	1	2.5	5	10	20	RSD
Napthalene				5.52E-06	4.85E-06	5.13E-06	4.91E-06	4.78E-06	2.33E-06	5.9
1-Methyl-naphtha			4.70E-06	4.36E-06	3.87E-06	4.36E-06	4.17E-06	4.02E-06	3.46E-06	9.7
2-Methyl-naphtha			5.17E-06	.78895-0	4.26E-06	4.81E-06	4.62E-06	4.44E-06	3.85E-06	9.3
Acenapthene		2.22E-06	2.02E-06	2.00E-06	1.80E-06	1.99E-06	1.91E-06			7
Flourene		7.16E-06	8.39E-06	8.75E-06	8.15E-06	8.88E-06	8.61E-06			7.5
Phenanthrene		3.65E-06	4.53E-06	5.17E-06	4.24E-06	4.57E-06	4.32E-06			11.2
Anthracene			9.46E-06	1.15E-06	1.62E-05	1.32E-05	1.26E-05	1.19E-05		17.9
Flouranthene		7.94E-06	8.21E-06	9.26E-06	7.32E-06	7.80E-06	7.70E-06	7.17E-06		8.8
Pyrene		2.38E-06	3.57E-06	2.70E-06	2.33E-06	2.76E-06	2.57E-06			16.6
Benzo(a)anthrac	5.72E-08	6.88E-07	7.21E-07	6.79E-07	6.21E-07	6.82E-07				8.9
Chrysene	5.25E-07	6.62E-07	6.31E-07	6.00E-07	5.50E-07	6.04E-07				8.5
Benzo(b)flourant	1.11E-06	1.68E-06	1.40E-06	1.33E-06	1.15E-06	1.25E-06				15.6
Benzo(k)flouranth	1.59E-07	1.74E-07	1.81E-07	1.84E-07	1.67E-07					5.8
Benzo(a)pyrene	4.48E-07	5.78E-07	5.64E-07	5.79E-07	5.20E-07	5.55E-07				9.3
Dibenz(ah)anthra	1.71E-06	1.97E-06	2.35E-06	2.28E-06	2.03E-06	2.10E-06				11.2
Benzo(ghi)Peryle	1.42E-06	1.45E-06	1.51E-06	1.54E-06	1.47E-06	1.53E-06	1.45E-06			3.1
Indeno(123cd)pyr	7.32E-06	5.32E-06	6.61E-06	7.96E-06	5.64E-06	5.61E-06	5.23E-06			17.1

AVERAGE RF % RSD	10.2

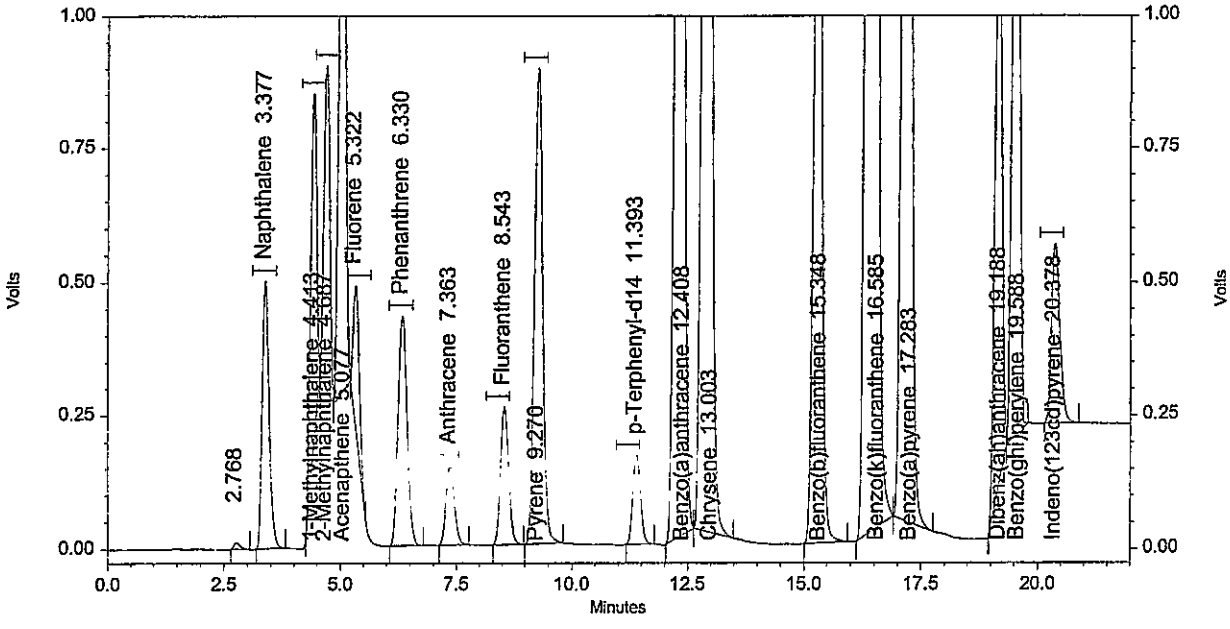
TEST AMERICA, INC. - HPLC Custom Report

Sample Name : 20.0 ppm initial cal
Date/Time of analysis : 5/24/2001 12:50:19
Filename : C:\EZChrom Elite\Projects\Default\public\0524hp3.015
Method : C:\EZChrom Elite\Methods\Lc3pah0524.met

UV Detector



Fluorescence Detector



TEST AMERICA, INC. - HPLC Custom Report

Sample Name : 20.0 ppm initial cal
Date/Time of analysis : 5/24/2001 12:50:19
Filename : C:\EZChrom Elite\Projects\Default\public\0524hp3.015
Method : C:\EZChrom Elite\Methods\Lc3pah0524.met

UV - Report

Name	Retention Time	Area	ESTD concentration
Naphthalene	3.28	38996	21.63
Acenaphthylene	3.84	28266	21.89
1-Methylnaphthalene	4.32	17718	21.27
2-Methylnaphthalene	4.59	29068	21.31
Acenapthene	4.91	6832	19.39
Fluorene	5.23	164335	21.89
Phenanthrene	6.24	533920	22.07
Anthracene	7.27	1248556	21.34
Fluoranthene	8.45	126212	23.25
Pyrene	9.18	91496	22.23
p-Terphenyl-d14	11.30	80057	23.07
Benzo(a)anthracene	12.20	266515	23.90
Chrysene	12.79	367629	20.65
Benzo(b)fluoranthene	15.18	296247	23.05
Benzo(k)fluoranthene	16.31	259095	23.72
Benzo(a)pyrene	17.07	265116	23.08
Dibenz(ah)anthracene	19.05	53219	23.72
Benzo(ghi)perylene	19.42	98243	23.03
Indeno(123cd)pyrene	20.28	315302	22.77

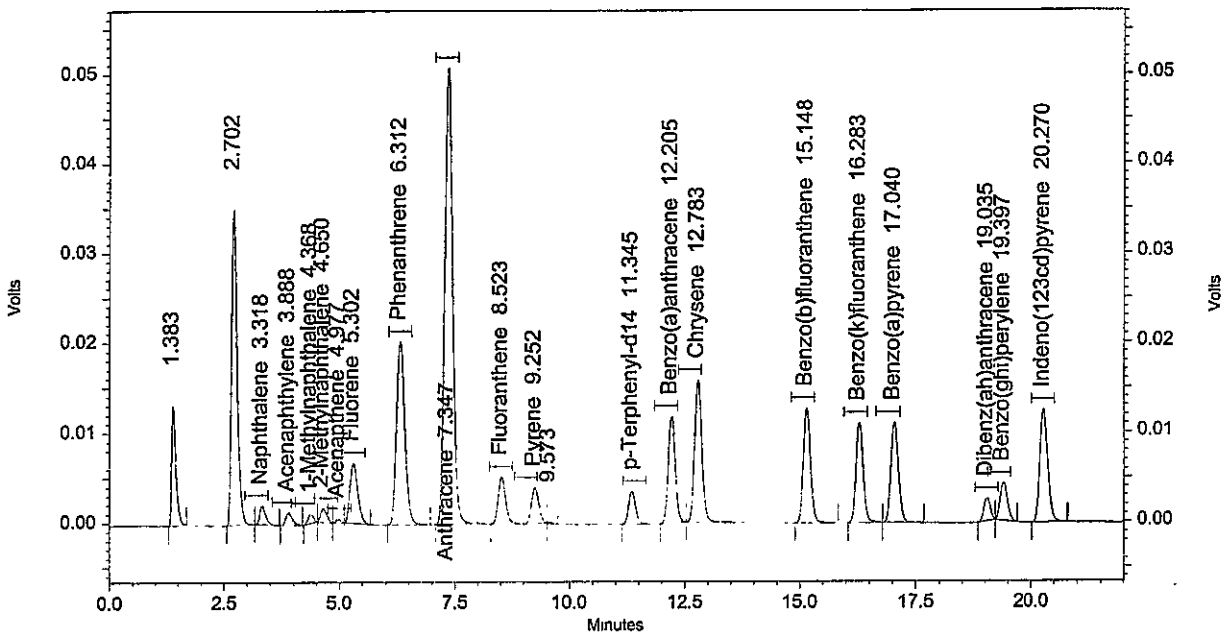
Fluorescence Report

Name	Retention Time	Area	ESTD concentration
Naphthalene	3.38	4954589	24.96
1-Methylnaphthalene	4.41	5785792	23.92
2-Methylnaphthalene	4.69	5191159	23.68
Acenapthene	5.08	9400742	18.71
Fluorene	5.32	2492694	20.75
Phenanthrene	6.33	5589361	24.66
Anthracene	7.36	1818623	28.12
Fluoranthene	8.54	3090927	24.46
Pyrene	9.27	10656100	28.97
p-Terphenyl-d14	11.39	1844266	23.21
Benzo(a)anthracene	12.41	18353012	12.08
Chrysene	13.00	19041029	11.34
Benzo(b)fluoranthene	15.35	15237248	20.13
Benzo(k)fluoranthene	16.59	24087907	4.17
Benzo(a)pyrene	17.28	19041138	10.29
Dibenz(ah)anthracene	19.19	10448909	21.67
Benzo(ghi)perylene	19.59	11167972	16.55
Indeno(123cd)pyrene	20.38	4241318	26.48

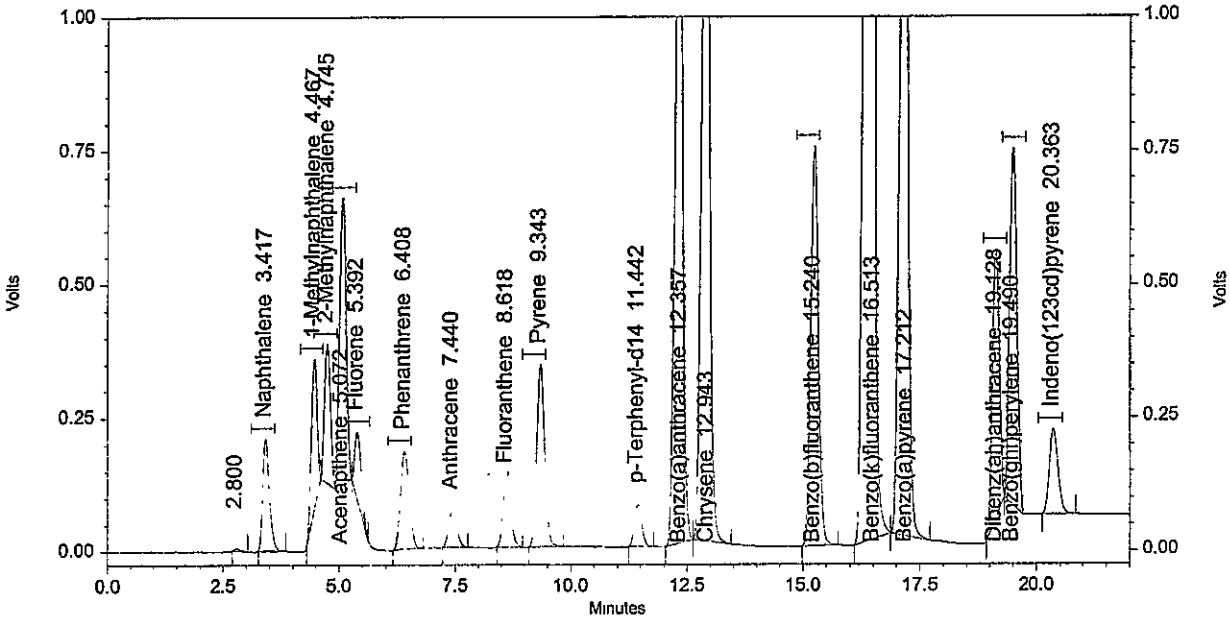
TEST AMERICA, INC. - HPLC Custom Report

Sample Name : 10.0 ppm initial cal
Date/Time of analysis : 5/24/2001 14:11:27
Filename : C:\EZChrom Elite\Projects\Default\public\0524hp3.016
Method : C:\EZChrom Elite\Methods\Lc3pah0524.met

UV Detector



Fluorescence Detector



TEST AMERICA, INC. - HPLC Custom Report

Sample Name : 10.0 ppm initial cal
Date/Time of analysis : 5/24/2001 14:11:27
Filename : C:\EZChrom Elite\Projects\Default\public\0524hp3.016
Method : C:\EZChrom Elite\Methods\Lc3pah0524.met

UV - Report

Name	Retention Time	Area	ESTD concentration
Naphthalene	3.32	18856	10.46
Acenaphthylene	3.89	13499	10.45
1-Methylnaphthalene	4.37	8510	10.21
2-Methylnaphthalene	4.65	13874	10.17
Acenapthene	4.98	3292	9.34
Fluorene	5.30	78059	10.40
Phenanthrene	6.31	253471	10.48
Anthracene	7.35	601808	10.29
Fluoranthene	8.52	59804	11.02
Pyrene	9.25	43376	10.54
p-Terphenyl-d14	11.35	37412	10.78
Benzo(a)anthracene	12.20	124876	11.20
Chrysene	12.78	173043	9.72
Benzo(b)fluoranthene	15.15	138901	10.81
Benzo(k)fluoranthene	16.28	121799	11.15
Benzo(a)pyrene	17.04	124241	10.82
Dibenz(ah)anthracene	19.03	24839	11.07
Benzo(ghi)perylene	19.40	45711	10.72
Indeno(123cd)pyrene	20.27	148340	10.71

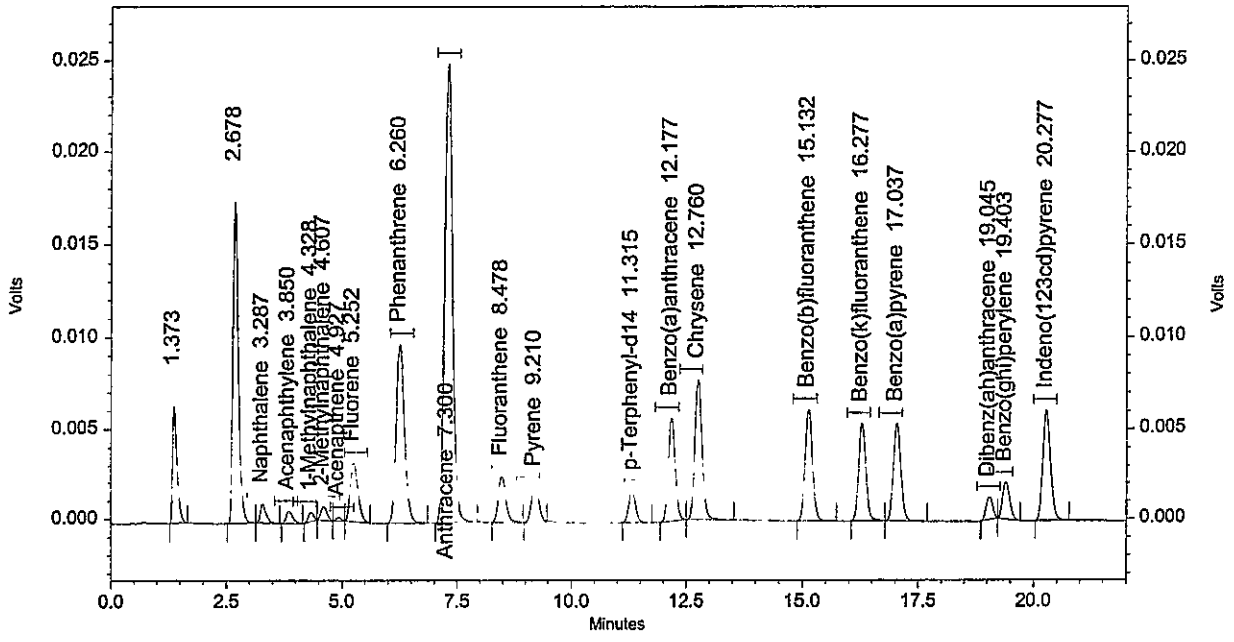
Fluorescence Report

Name	Retention Time	Area	ESTD concentration
Naphthalene	3.42	2090470	10.53
1-Methylnaphthalene	4.47	2489883	10.29
2-Methylnaphthalene	4.75	2253718	10.28
Acenapthene	5.07	5434636	10.81
Fluorene	5.39	1221703	10.17
Phenanthrene	6.41	2364127	10.43
Anthracene	7.44	837403	12.95
Fluoranthene	8.62	1395061	11.04
Pyrene	9.34	4098536	11.14
p-Terphenyl-d14	11.44	847413	10.66
Benzo(a)anthracene	12.36	13846647	9.11
Chrysene	12.94	14739249	8.77
Benzo(b)fluoranthene	15.24	8667263	11.45
Benzo(k)fluoranthene	16.51	21012735	3.63
Benzo(a)pyrene	17.21	15311686	8.28
Dibenz(ah)anthracene	19.13	5173498	10.73
Benzo(ghi)perylene	19.49	7282877	10.79
Indeno(123cd)pyrene	20.36	1980874	12.37

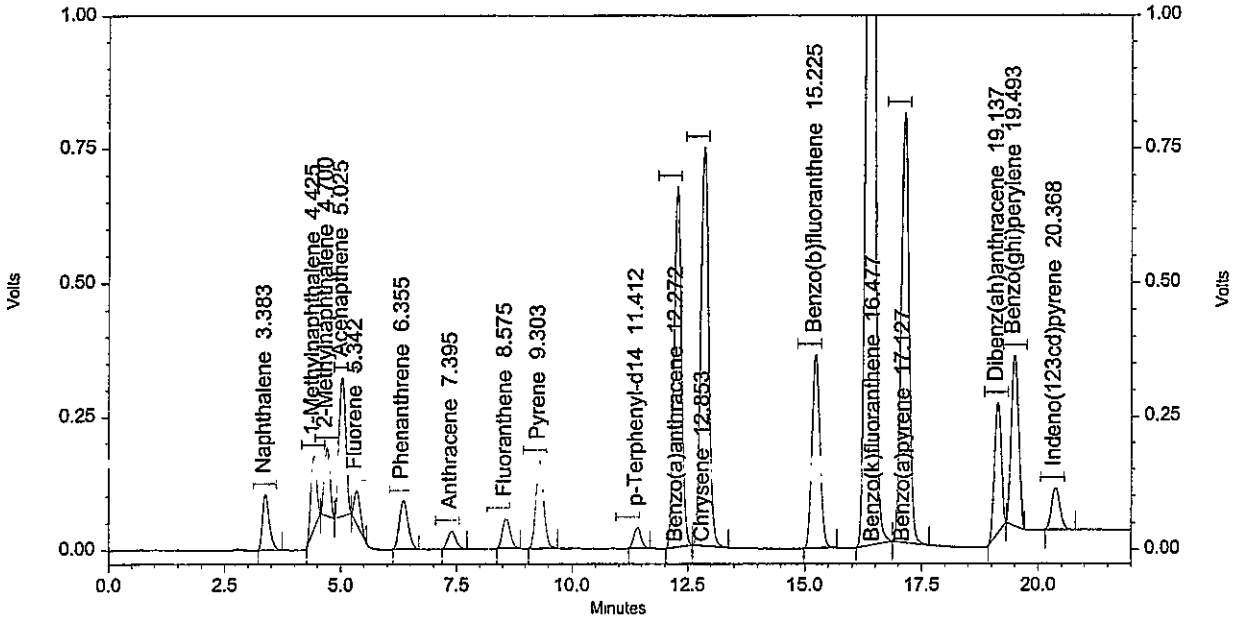
TEST AMERICA, INC. - HPLC Custom Report

Sample Name : 5.0 ppm initial cal
Date/Time of analysis : 5/24/2001 14:35:40
Filename : C:\EZChrom Elite\Projects\Default\public\0524hp3.017
Method : C:\EZChrom Elite\Methods\Lc3pah0524.met

UV Detector



Fluorescence Detector



TEST AMERICA, INC. - HPLC Custom Report

Sample Name : 5.0 ppm initial cal
Date/Time of analysis : 5/24/2001 14:35:40
Filename : C:\EZChrom Elite\Projects\Default\public\0524hp3.017
Method : C:\EZChrom Elite\Methods\Lc3pah0524.met

UV - Report

Name	Retention Time	Area	ESTD concentration
Naphthalene	3.29	9120	5.06
Acenaphthylene	3.85	6588	5.10
1-Methylnaphthalene	4.33	4136	4.96
2-Methylnaphthalene	4.61	6783	4.97
Acenapthene	4.93	1572	4.46
Fluorene	5.25	38188	5.09
Phenanthrene	6.26	123867	5.12
Anthracene	7.30	297228	5.08
Fluoranthene	8.48	29086	5.36
Pyrene	9.21	21183	5.15
p-Terphenyl-d14	11.32	18186	5.24
Benzo(a)anthracene	12.18	60850	5.46
Chrysene	12.76	85558	4.81
Benzo(b)fluoranthene	15.13	67596	5.26
Benzo(k)fluoranthene	16.28	59519	5.45
Benzo(a)pyrene	17.04	60683	5.28
Dibenz(ah)anthracene	19.05	11935	5.32
Benzo(ghi)perylene	19.40	22084	5.18
Indeno(123cd)pyrene	20.28	72425	5.23

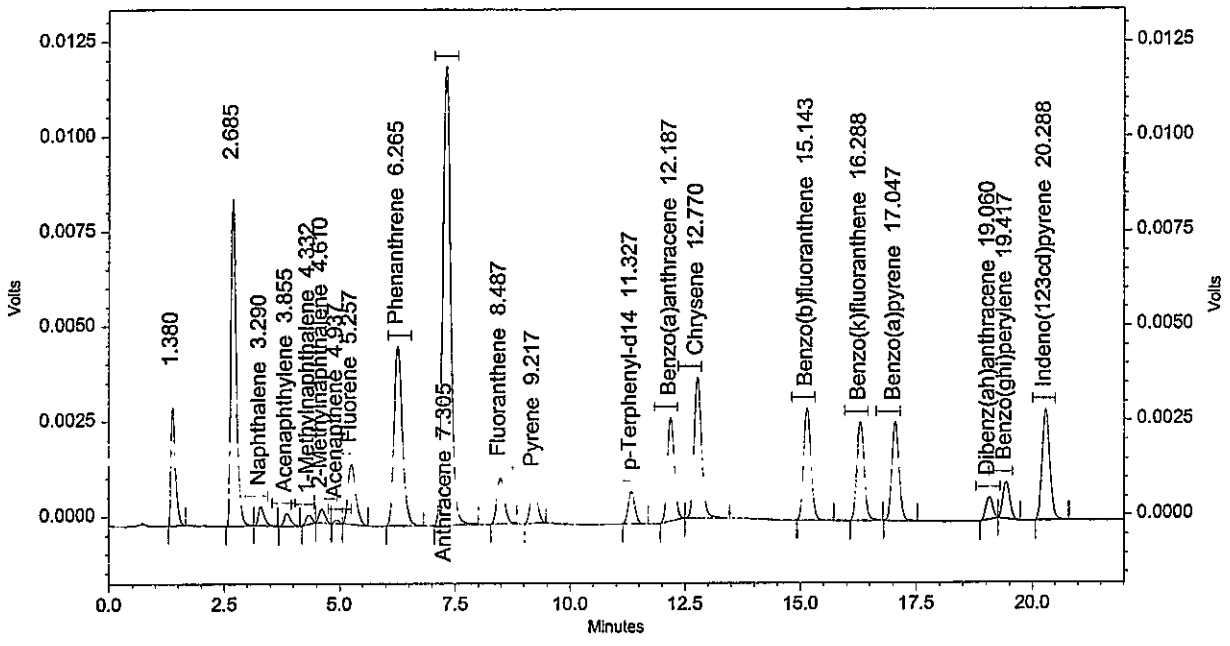
Fluorescence Report

Name	Retention Time	Area	ESTD concentration
Naphthalene	3.38	1018124	5.13
1-Methylnaphthalene	4.42	1198246	4.95
2-Methylnaphthalene	4.70	1082829	4.94
Acenapthene	5.03	2619145	5.21
Fluorene	5.34	580584	4.83
Phenanthrene	6.36	1157821	5.11
Anthracene	7.40	398357	6.16
Fluoranthene	8.57	649368	5.14
Pyrene	9.30	1946408	5.29
p-Terphenyl-d14	11.41	414541	5.22
Benzo(a)anthracene	12.27	7672667	5.05
Chrysene	12.85	8689855	5.17
Benzo(b)fluoranthene	15.23	4213851	5.57
Benzo(k)fluoranthene	16.48	17809507	3.08
Benzo(a)pyrene	17.13	9456217	5.11
Dibenz(ah)anthracene	19.14	2488089	5.16
Benzo(ghi)perylene	19.49	3438580	5.09
Indeno(123cd)pyrene	20.37	956258	5.97

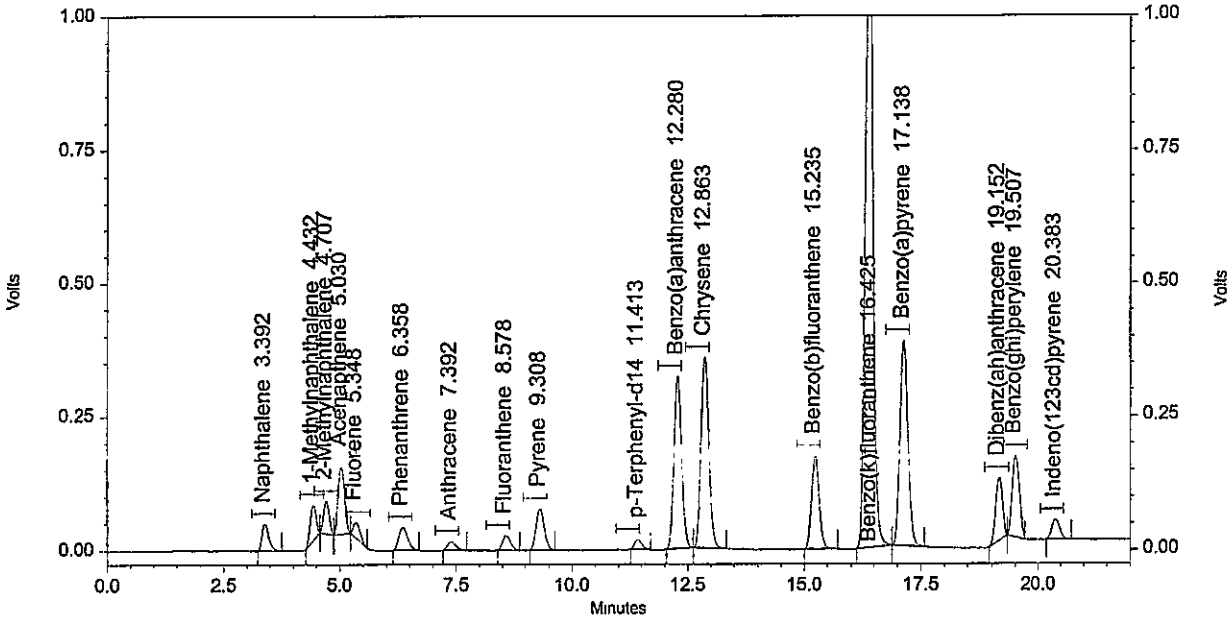
TEST AMERICA, INC. - HPLC Custom Report

Sample Name : 2.5 ppm initial cal
Date/Time of analysis : 5/24/2001 14:59:49
Filename : C:\EZChrom Elite\Projects\Default\public\0524hp3.018
Method : C:\EZChrom Elite\Methods\Lc3pah0524.met

UV Detector



Fluorescence Detector



TEST AMERICA, INC. - HPLC Custom Report

Sample Name : 2.5 ppm initial cal
Date/Time of analysis : 5/24/2001 14:59:49
Filename : C:\EZChrom Elite\Projects\Default\public\0524hp3.018
Method : C:\EZChrom Elite\Methods\Lc3pah0524.met

UV - Report

Name	Retention Time	Area	ESTD concentration
Naphthalene	3.29	4478	2.48
Acenaphthylene	3.86	3160	2.45
1-Methylnaphthalene	4.33	1980	2.38
2-Methylnaphthalene	4.61	3267	2.39
Acenapthene	4.94	776	2.20
Fluorene	5.26	18361	2.45
Phenanthrene	6.26	59304	2.45
Anthracene	7.31	143289	2.45
Fluoranthene	8.49	13535	2.49
Pyrene	9.22	10064	2.45
p-Terphenyl-d14	11.33	8583	2.47
Benzo(a)anthracene	12.19	28931	2.59
Chrysene	12.77	41565	2.34
Benzo(b)fluoranthene	15.14	32301	2.51
Benzo(k)fluoranthene	16.29	28410	2.60
Benzo(a)pyrene	17.05	28978	2.52
Dibenz(ah)anthracene	19.06	5674	2.53
Benzo(ghi)perylene	19.42	10501	2.46
Indeno(123cd)pyrene	20.29	34699	2.51

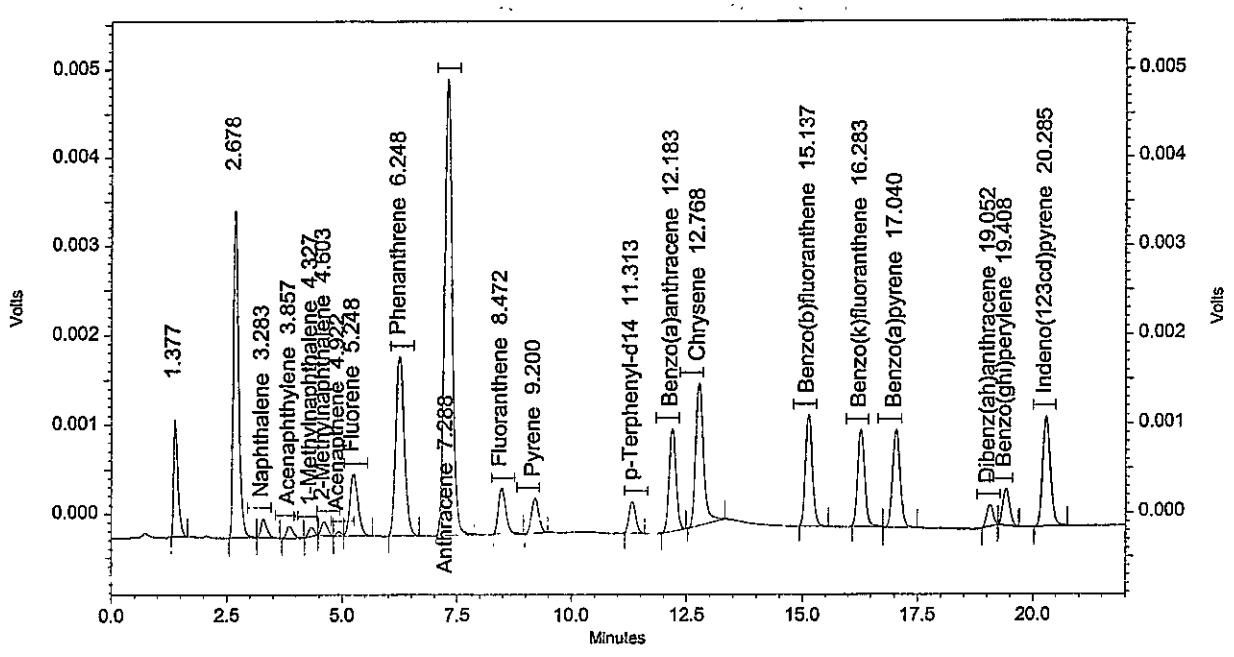
Fluorescence Report

Name	Retention Time	Area	ESTD concentration
Naphthalene	3.39	487289	2.45
1-Methylnaphthalene	4.43	572910	2.37
2-Methylnaphthalene	4.71	519694	2.37
Acenapthene	5.03	1255705	2.50
Fluorene	5.35	281486	2.34
Phenanthrene	6.36	546943	2.41
Anthracene	7.39	189376	2.93
Fluoranthene	8.58	320483	2.54
Pyrene	9.31	905141	2.46
p-Terphenyl-d14	11.41	191709	2.41
Benzo(a)anthracene	12.28	3665403	2.41
Chrysene	12.86	4140790	2.47
Benzo(b)fluoranthene	15.24	2006325	2.65
Benzo(k)fluoranthene	16.43	13306281	2.30
Benzo(a)pyrene	17.14	4503739	2.43
Dibenz(ah)anthracene	19.15	1188101	2.46
Benzo(ghi)perylene	19.51	1635195	2.42
Indeno(123cd)pyrene	20.38	445867	2.78

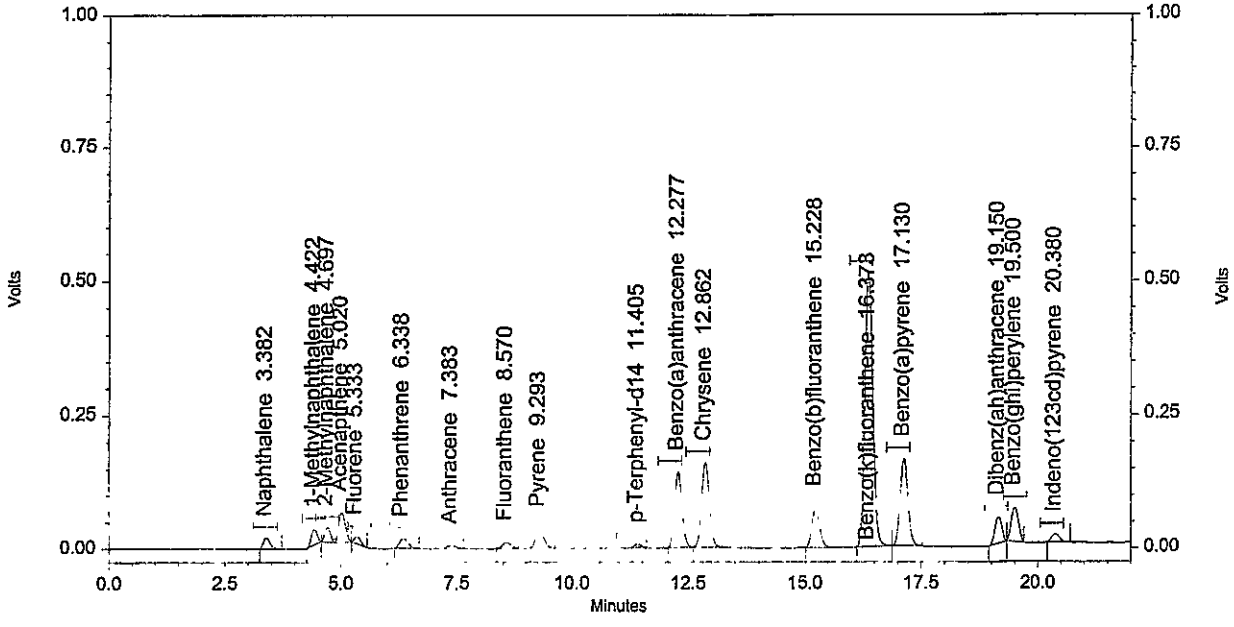
TEST AMERICA, INC. - HPLC Custom Report

Sample Name : 1.0 ppm initial cal
Date/Time of analysis : 5/24/2001 15:33:25
Filename : C:\EZChrom Elite\Projects\Default\public\0524hp3.019
Method : C:\EZChrom Elite\Methods\Lc3pah0524.met

UV Detector



Fluorescence Detector



TEST AMERICA, INC. - HPLC Custom Report

Sample Name : 1.0 ppm initial cal
Date/Time of analysis : 5/24/2001 15:33:25
Filename : C:\EZChrom Elite\Projects\Default\public\0524hp3.019
Method : C:\EZChrom Elite\Methods\Lc3pah0524.met

UV - Report

Name	Retention Time	Area	ESTD concentration
Naphthalene	3.28	1924	1.07
Acenaphthylene	3.86	1380	1.07
1-Methylnaphthalene	4.33	874	1.05
2-Methylnaphthalene	4.60	1402	1.03
Acenapthene	4.92	416	1.18
Fluorene	5.25	8308	1.11
Phenanthrene	6.25	24925	1.03
Anthracene	7.29	60583	1.04
Fluoranthene	8.47	5796	1.07
Pyrene	9.20	4313	1.05
p-Terphenyl-d14	11.31	3525	1.02
Benzo(a)anthracene	12.18	12168	1.09
Chrysene	12.77	18430	1.04
Benzo(b)fluoranthene	15.14	13562	1.06
Benzo(k)fluoranthene	16.28	11877	1.09
Benzo(a)pyrene	17.04	12265	1.07
Dibenz(ah)anthracene	19.05	2296	1.02
Benzo(ghi)perylene	19.41	4438	1.04
Indeno(123cd)pyrene	20.28	14821	1.07

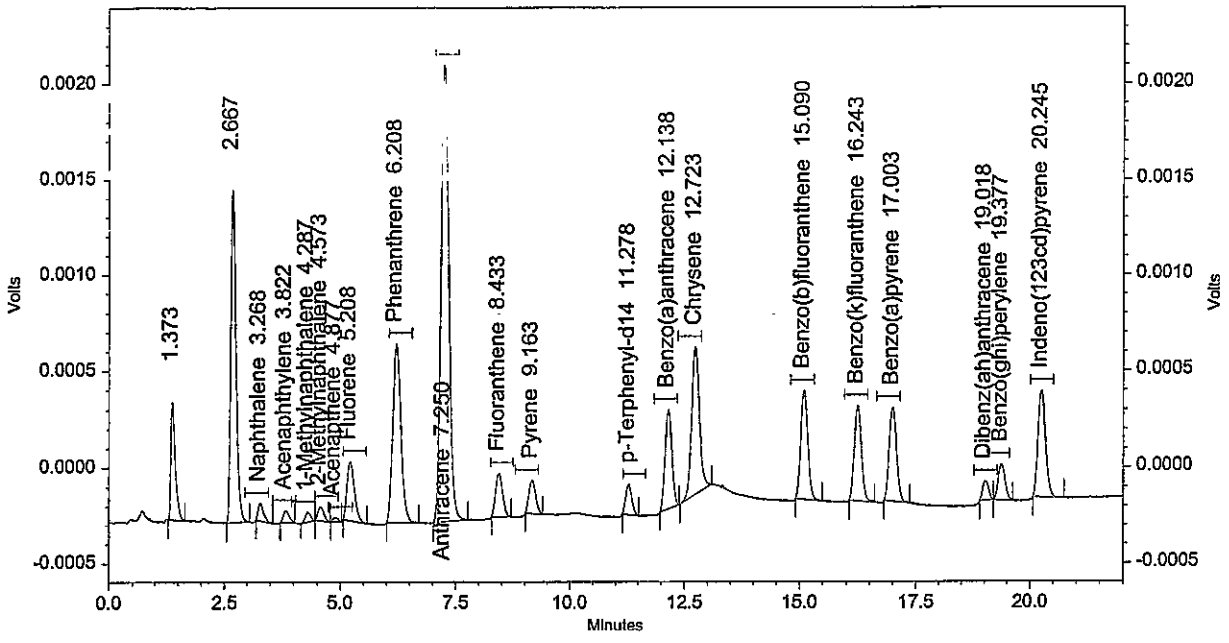
Fluorescence Report

Name	Retention Time	Area	ESTD concentration
Naphthalene	3.38	206301	1.04
1-Methylnaphthalene	4.42	258634	1.07
2-Methylnaphthalene	4.70	234602	1.07
Acenapthene	5.02	554927	1.10
Fluorene	5.33	122656	1.02
Phenanthrene	6.34	236032	1.04
Anthracene	7.38	61644	0.95
Fluoranthene	8.57	136683	1.08
Pyrene	9.29	429678	1.17
p-Terphenyl-d14	11.40	65918	0.83
Benzo(a)anthracene	12.28	1609706	1.06
Chrysene	12.86	1819631	1.08
Benzo(b)fluoranthene	15.23	867994	1.15
Benzo(k)fluoranthene	16.37	5988505	1.04
Benzo(a)pyrene	17.13	1923940	1.04
Dibenz(ah)anthracene	19.15	493330	1.02
Benzo(ghi)perylene	19.50	680994	1.01
Indeno(123cd)pyrene	20.38	177178	1.11

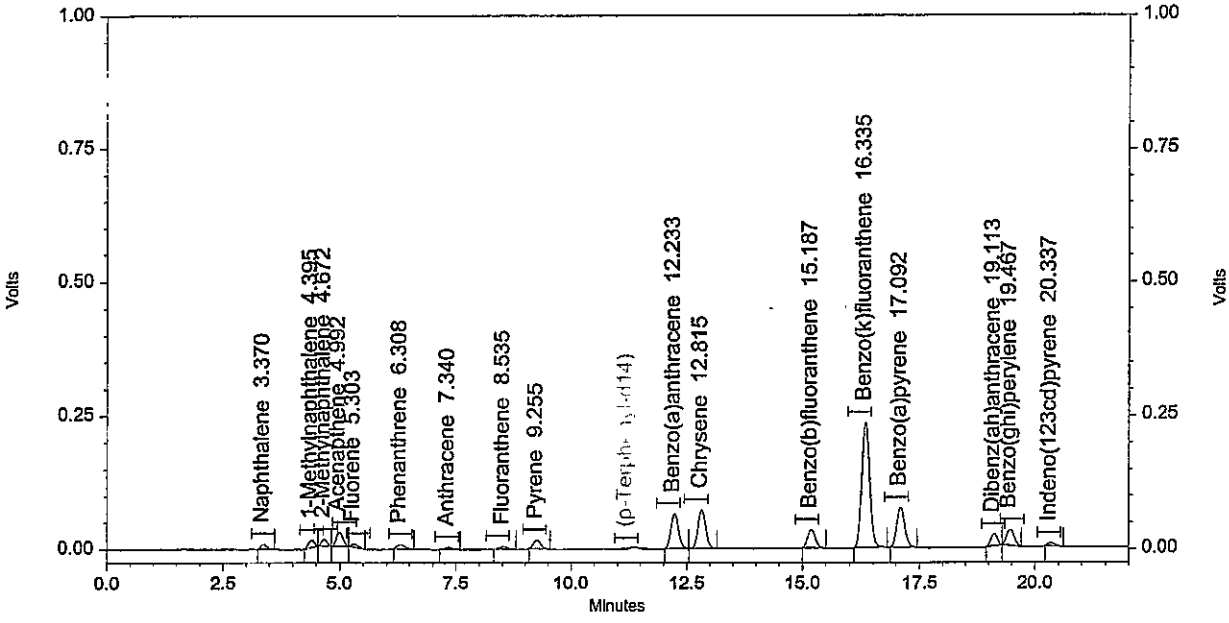
TEST AMERICA, INC. - HPLC Custom Report

Sample Name : .5 ppm initial cal
Date/Time of analysis : 5/24/2001 17:40:12
Filename : C:\EZChrom Elite\Projects\Default\public\0524hp3.024
Method : C:\EZChrom Elite\Methods\Lc3pah0524.met

UV Detector



Fluorescence Detector



TEST AMERICA, INC. - HPLC Custom Report

Sample Name : .5 ppm initial cal
Date/Time of analysis : 5/24/2001 17:40:12
Filename : C:\EZChrom Elite\Projects\Default\public\0524hp3.024
Method : C:\EZChrom Elite\Methods\Lc3pah0524.met

UV - Report

Name	Retention Time	Area	ESTD concentration
Naphthalene	3.27	760	0.42
Acenaphthylene	3.82	536	0.42
1-Methylnaphthalene	4.29	390	0.47
2-Methylnaphthalene	4.57	646	0.47
Acenapthene	4.88	151	0.43
Fluorene	5.21	3412	0.45
Phenanthrene	6.21	11462	0.47
Anthracene	7.25	27995	0.48
Fluoranthene	8.43	2435	0.45
Pyrene	9.16	1790	0.43
p-Terphenyl-d14	11.28	1490	0.43
Benzo(a)anthracene	12.14	5225	0.47
Chrysene	12.72	8718	0.49
Benzo(b)fluoranthene	15.09	6053	0.47
Benzo(k)fluoranthene	16.24	5334	0.49
Benzo(a)pyrene	17.00	5284	0.46
Dibenz(ah)anthracene	19.02	909	0.41
Benzo(ghi)perylene	19.38	2029	0.48
Indeno(123cd)pyrene	20.25	6407	0.46

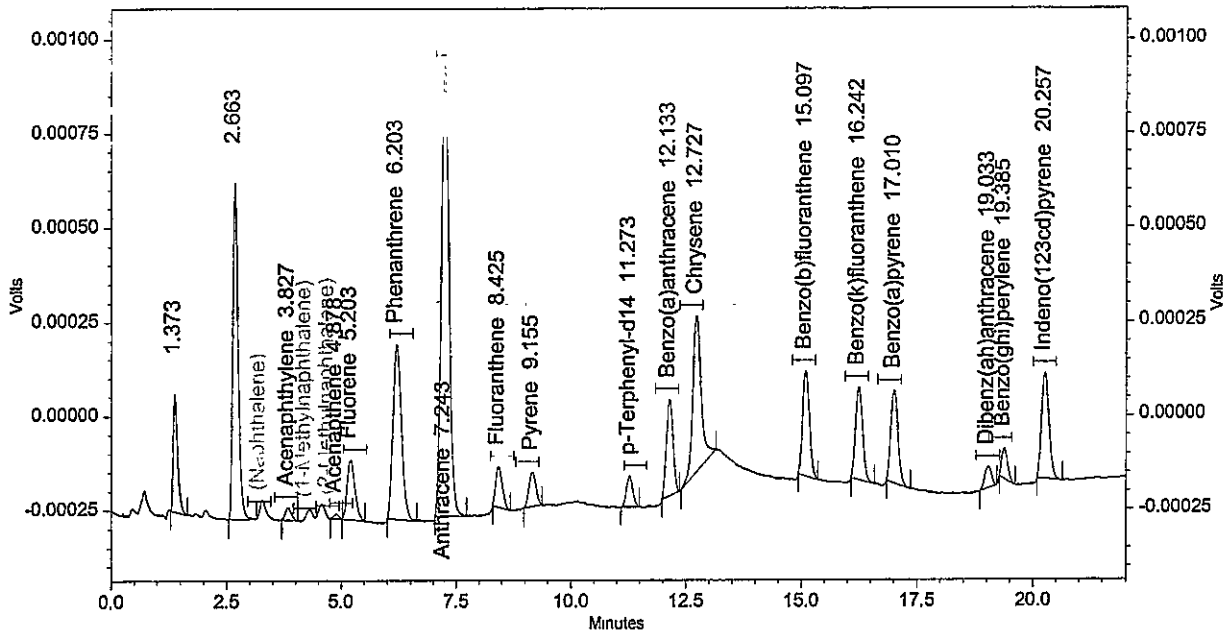
Fluorescence Report

Name	Retention Time	Area	ESTD concentration
Naphthalene	3.37	90649	0.46
1-Methylnaphthalene	4.40	114675	0.47
2-Methylnaphthalene	4.67	104407	0.48
Acenapthene	4.99	250291	0.50
Fluorene	5.30	57131	0.48
Phenanthrene	6.31	96798	0.43
Anthracene	7.34	43572	0.67
Fluoranthene	8.54	53982	0.43
Pyrene	9.25	184892	0.50
p-Terphenyl-d14			0.00 BDL
Benzo(a)anthracene	12.23	736312	0.48
Chrysene	12.82	832875	0.50
Benzo(b)fluoranthene	15.19	375189	0.50
Benzo(k)fluoranthene	16.34	2721316	0.47
Benzo(a)pyrene	17.09	863497	0.47
Dibenz(ah)anthracene	19.11	219107	0.45
Benzo(ghi)perylene	19.47	324653	0.48
Indeno(123cd)pyrene	20.34	62784	0.39

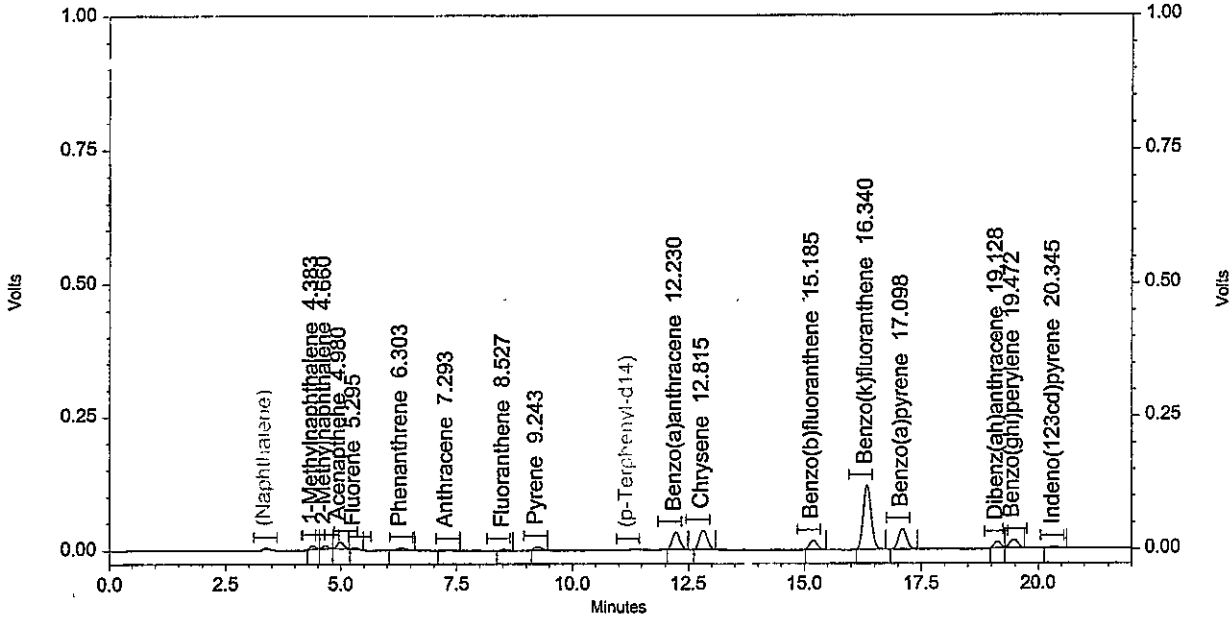
TEST AMERICA, INC. - HPLC Custom Report

Sample Name : .25 ppm initial cal
Date/Time of analysis : 5/24/2001 18:06:57
Filename : C:\EZChrom Elite\Projects\Default\public\0524hp3.025
Method : C:\EZChrom Elite\Methods\Lc3pah0524.met

UV Detector



Fluorescence Detector



TEST AMERICA, INC. - HPLC Custom Report

Sample Name : .25 ppm initial cal
Date/Time of analysis : 5/24/2001 18:06:57
Filename : C:\EZChrom Elite\Projects\Default\public\0524hp3.025
Method : C:\EZChrom Elite\Methods\Lc3pah0524.met

UV - Report

Name	Retention Time	Area	ESTD concentration
Naphthalene			0.00 BDL
Acenaphthylene	3.83	307	0.24
1-Methylnaphthalene			0.00 BDL
2-Methylnaphthalene			0.00 BDL
Acenapthene	4.88	97	0.28
Fluorene	5.20	1838	0.24
Phenanthrene	6.20	5781	0.24
Anthracene	7.24	14186	0.24
Fluoranthene	8.43	1087	0.20
Pyrene	9.15	964	0.23
p-Terphenyl-d14	11.27	795	0.23
Benzo(a)anthracene	12.13	2559	0.23
Chrysene	12.73	5202	0.29
Benzo(b)fluoranthene	15.10	2941	0.23
Benzo(k)fluoranthene	16.24	2590	0.24
Benzo(a)pyrene	17.01	2625	0.23
Dibenz(ah)anthracene	19.03	539	0.24
Benzo(ghi)perylene	19.38	755	0.18
Indeno(123cd)pyrene	20.26	3203	0.23

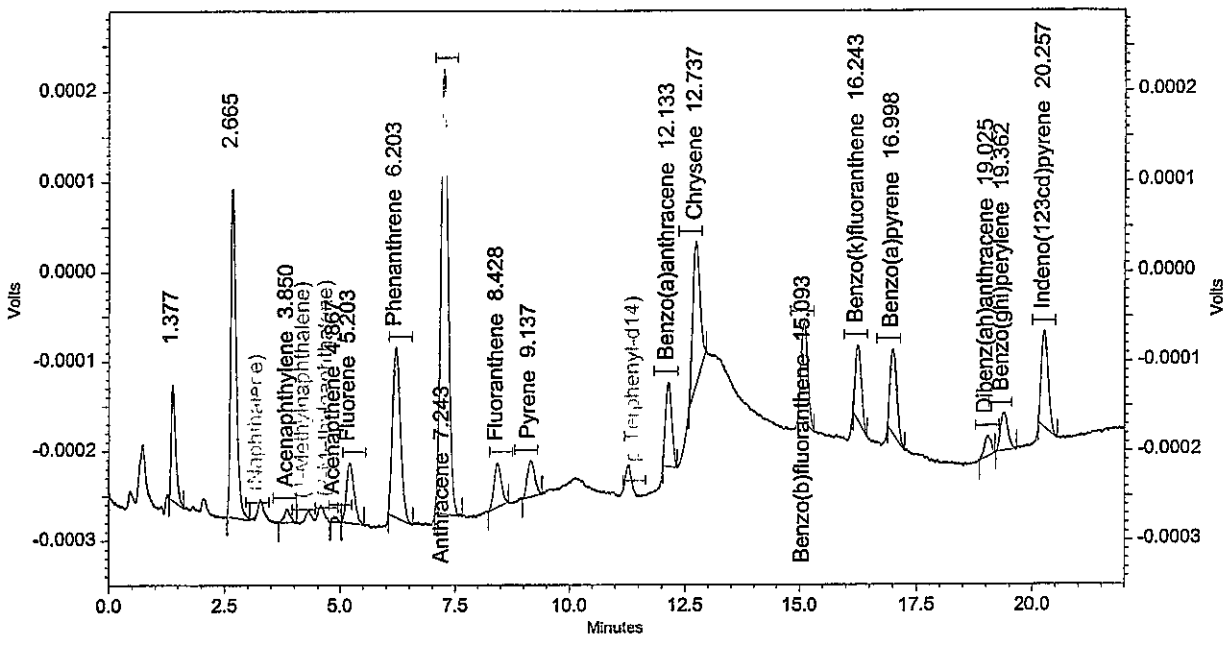
Fluorescence Report

Name	Retention Time	Area	ESTD concentration
Naphthalene			0.00 BDL
1-Methylnaphthalene	4.38	53142	0.22
2-Methylnaphthalene	4.66	48401	0.22
Acenapthene	4.98	123976	0.25
Fluorene	5.30	29788	0.25
Phenanthrene	6.30	55140	0.24
Anthracene	7.29	26439	0.41
Fluoranthene	8.53	30440	0.24
Pyrene	9.24	70049	0.19
p-Terphenyl-d14			0.00 BDL
Benzo(a)anthracene	12.23	346950	0.23
Chrysene	12.82	396166	0.24
Benzo(b)fluoranthene	15.19	178135	0.24
Benzo(k)fluoranthene	16.34	1383334	0.24
Benzo(a)pyrene	17.10	443396	0.24
Dibenz(ah)anthracene	19.13	106229	0.22
Benzo(ghi)perylene	19.47	165474	0.25
Indeno(123cd)pyrene	20.35	37794	0.24

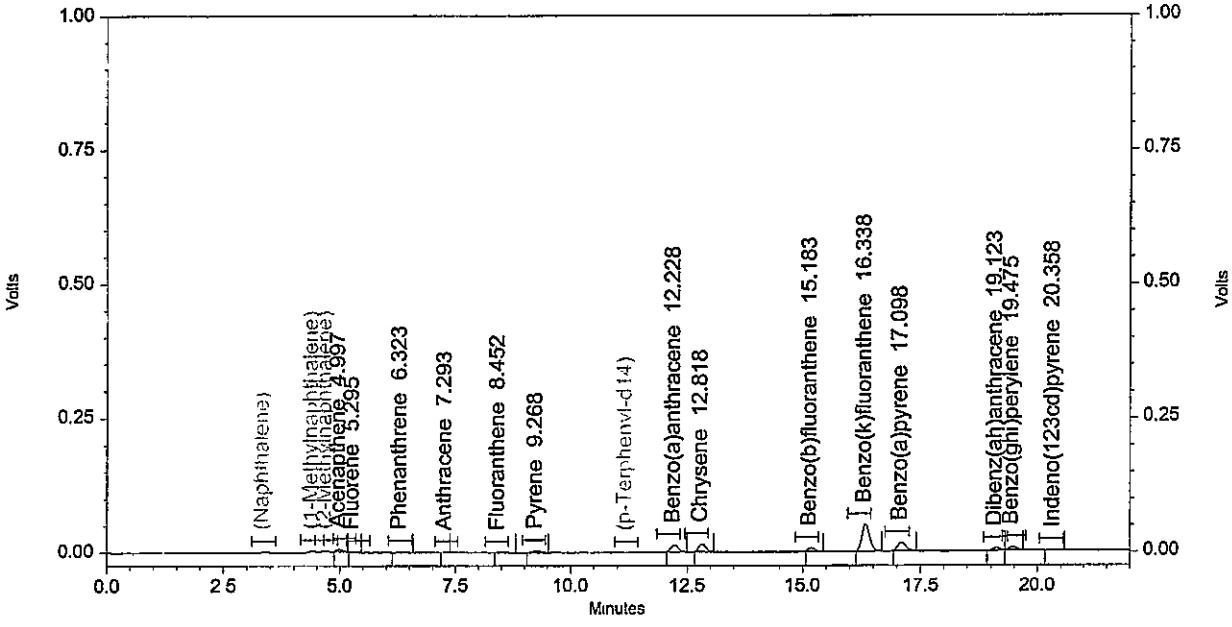
TEST AMERICA, INC. - HPLC Custom Report

Sample Name : .1 ppm initial cal
Date/Time of analysis : 5/24/2001 18:31:10
Filename : C:\EZChrom Elite\Projects\Default\public\0524hp3.026
Method : C:\EZChrom Elite\Methods\Lc3pah0524.met

UV Detector



Fluorescence Detector



TEST AMERICA, INC. - HPLC Custom Report

Sample Name : .1 ppm initial cal
Date/Time of analysis : 5/24/2001 18:31:10
Filename : C:\EZChrom Elite\Projects\Default\public\0524hp3.026
Method : C:\EZChrom Elite\Methods\Lc3pah0524.met

UV - Report

Name	Retention Time	Area	ESTD concentration
Naphthalene			0.00 BDL
Acenaphthylene	3.85	138	0.11
1-Methylnaphthalene			0.00 BDL
2-Methylnaphthalene			0.00 BDL
Acenapthene	4.87	49	0.14
Fluorene	5.20	774	0.10
Phenanthrene	6.20	2256	0.09
Anthracene	7.24	5740	0.10
Fluoranthene	8.43	545	0.10
Pyrene	9.14	464	0.11
p-Terphenyl-d14			0.00 BDL
Benzo(a)anthracene	12.13	853	0.08
Chrysene	12.74	1708	0.10
Benzo(b)fluoranthene	15.09	1090	0.08
Benzo(k)fluoranthene	16.24	772	0.07
Benzo(a)pyrene	17.00	916	0.08
Dibenz(ah)anthracene	19.02	215	0.10
Benzo(ghi)perylene	19.36	465	0.11
Indeno(123cd)pyrene	20.26	1135	0.08

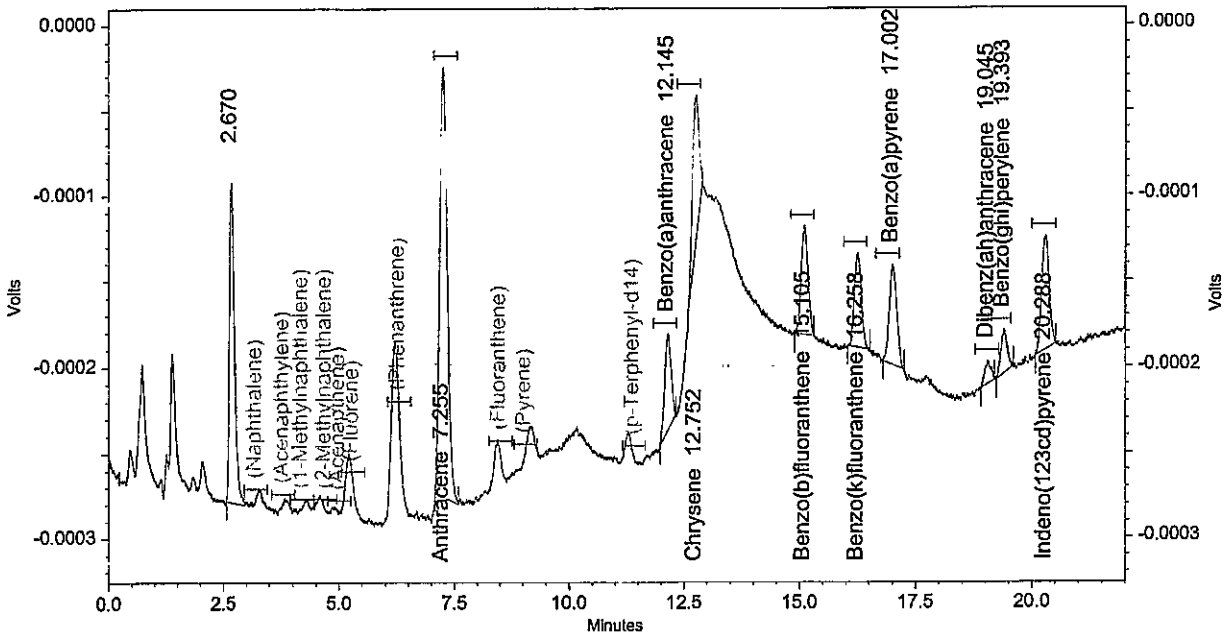
Fluorescence Report

Name	Retention Time	Area	ESTD concentration
Naphthalene			0.00 BDL
1-Methylnaphthalene			0.00 BDL
2-Methylnaphthalene			0.00 BDL
Acenapthene	5.00	44978	0.09
Fluorene	5.30	13964	0.12
Phenanthrene	6.32	27387	0.12
Anthracene	7.29	2995	0.05
Fluoranthene	8.45	12596	0.10
Pyrene	9.27	42005	0.11
p-Terphenyl-d14			0.00 BDL
Benzo(a)anthracene	12.23	145409	0.10
Chrysene	12.82	151065	0.09
Benzo(b)fluoranthene	15.18	59609	0.08
Benzo(k)fluoranthene	16.34	574025	0.10
Benzo(a)pyrene	17.10	173011	0.09
Dibenz(ah)anthracene	19.12	50797	0.11
Benzo(ghi)perylene	19.48	69008	0.10
Indeno(123cd)pyrene	20.36	18791	0.12

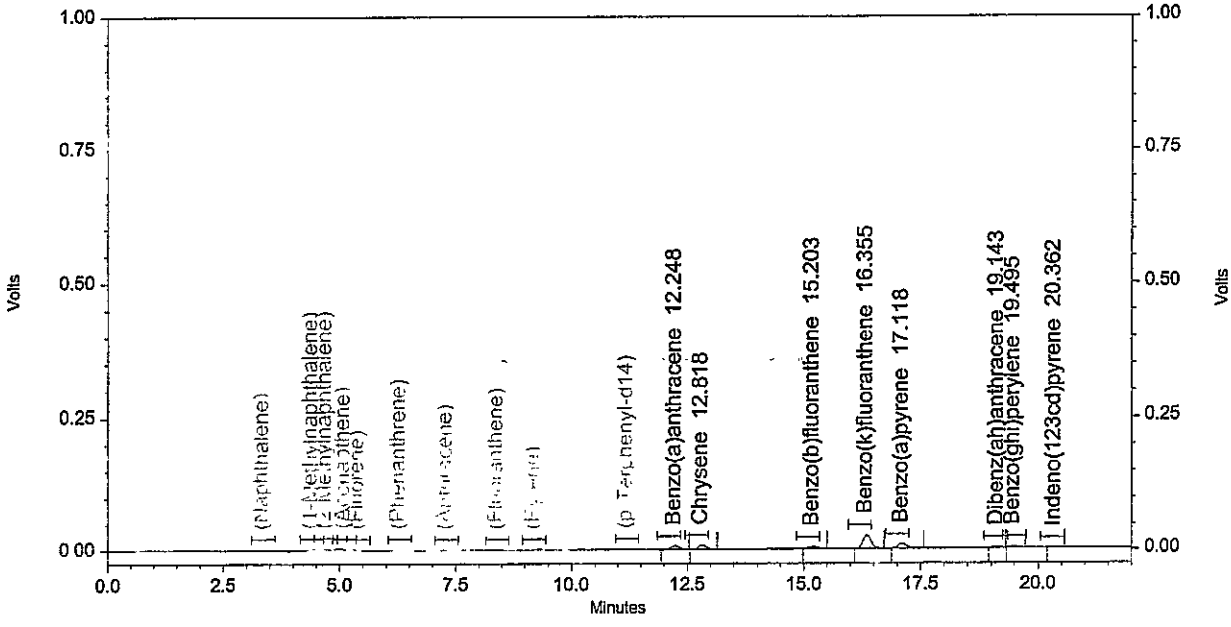
TEST AMERICA, INC. - HPLC Custom Report

Sample Name : .05 ppm initial cal
Date/Time of analysis : 5/24/2001 18:55:25
Filename : C:\EZChrom Elite\Projects\Default\public\0524hp3.027
Method : C:\EZChrom Elite\Methods\Lc3pah0524.met

UV Detector



Fluorescence Detector



TEST AMERICA, INC. - HPLC Custom Report

Sample Name : .05 ppm initial cal
Date/Time of analysis : 5/24/2001 18:55:25
Filename : C:\EZChrom Elite\Projects\Default\public\0524hp3.027
Method : C:\EZChrom Elite\Methods\Lc3pah0524.met

UV - Report

Name	Retention Time	Area	ESTD concentration
Naphthalene			0.00 BDL
Acenaphthylene			0.00 BDL
1-Methylnaphthalene			0.00 BDL
2-Methylnaphthalene			0.00 BDL
Acenapthene			0.00 BDL
Fluorene			0.00 BDL
Phenanthrene			0.00 BDL
Anthracene	7.26	2853	0.05
Fluoranthene			0.00 BDL
Pyrene			0.00 BDL
p-Terphenyl-d14			0.00 BDL
Benzo(a)anthracene	12.15	552	0.05
Chrysene	12.75	883	0.05
Benzo(b)fluoranthene	15.10	655	0.05
Benzo(k)fluoranthene	16.26	564	0.05
Benzo(a)pyrene	17.00	637	0.06
Dibenz(ah)anthracene	19.05	109	0.05
Benzo(ghi)perylene	19.39	244	0.06
Indeno(123cd)pyrene	20.29	752	0.05

Fluorescence Report

Name	Retention Time	Area	ESTD concentration
Naphthalene			0.00 BDL
1-Methylnaphthalene			0.00 BDL
2-Methylnaphthalene			0.00 BDL
Acenapthene			0.00 BDL
Fluorene			0.00 BDL
Phenanthrene			0.00 BDL
Anthracene			0.00 BDL
Fluoranthene			0.00 BDL
Pyrene			0.00 BDL
p-Terphenyl-d14			0.00 BDL
Benzo(a)anthracene	12.25	89739	0.06
Chrysene	12.82	95189	0.06
Benzo(b)fluoranthene	15.20	44897	0.06
Benzo(k)fluoranthene	16.35	314324	0.05
Benzo(a)pyrene	17.12	111561	0.06
Dibenz(ah)anthracene	19.14	29282	0.06
Benzo(ghi)perylene	19.50	35237	0.05
Indeno(123cd)pyrene	20.36	6826	0.04

7A

8310 PAH CONTINUING CALIBRATION CHECK

Lab Name: Test America **Calibration Date:** 05/24/01

SDG # 239033 **Cont. Calib. Date:** 6/8/01

Instrument HPLC 3 **Lab File ID:** 0608LC3.002

UV CHANNEL

	COMPOUND	known	actual	%D	MAX %D
01	Napthalene	1.00	1.16	14.8	15.0
02	Acenapthylene	1.00	1.14	13.1	15.0
03	1-Methyl-naphthalene	1.00	1.01	1.0	15.0
04	2-Methyl-naphthalene	1.00	1.19	17.4	15.0
05	Acenapthene	1.00	1.07	6.8	15.0
06	Flourene	1.00	1.13	12.2	15.0
07	Phenanthrene	1.00	1.13	12.2	15.0
08	Anthracene	1.00	1.14	13.1	15.0
09	Flouranthene	1.00	1.12	11.3	15.0
10	Pyrene	1.00	1.10	9.5	15.0
11	Benzo(a)anthracene	1.00	1.20	18.2	15.0
12	Chrysene	1.00	1.04	3.9	15.0
13	Benzo(b)flouranthene	1.00	1.17	15.7	15.0
14	Benzo(k)flouranthene	1.00	1.17	15.7	15.0
15	Benzo(a)pyrene	1.00	1.14	13.1	15.0
16	Dibenz(ah)anthracene	1.00	1.10	9.5	15.0
17	Benzo(ghi)Perylene	1.00	1.10	9.5	15.0
18	Indeno(123cd)pyrene	1.00	1.15	14.0	15.0

AVERAGE: 1.1153

8310 PAH CONTINUING CALIBRATION CHECK

Lab Name: Test America **Calibration Date:** 05/24/01

SDG # 239033 **Cont. Calib. Date:** 6/8/01

Instrument ID: HPLC 3 **Lab File ID:** 0608LC3.002

FLOURECENCE CHANNEL

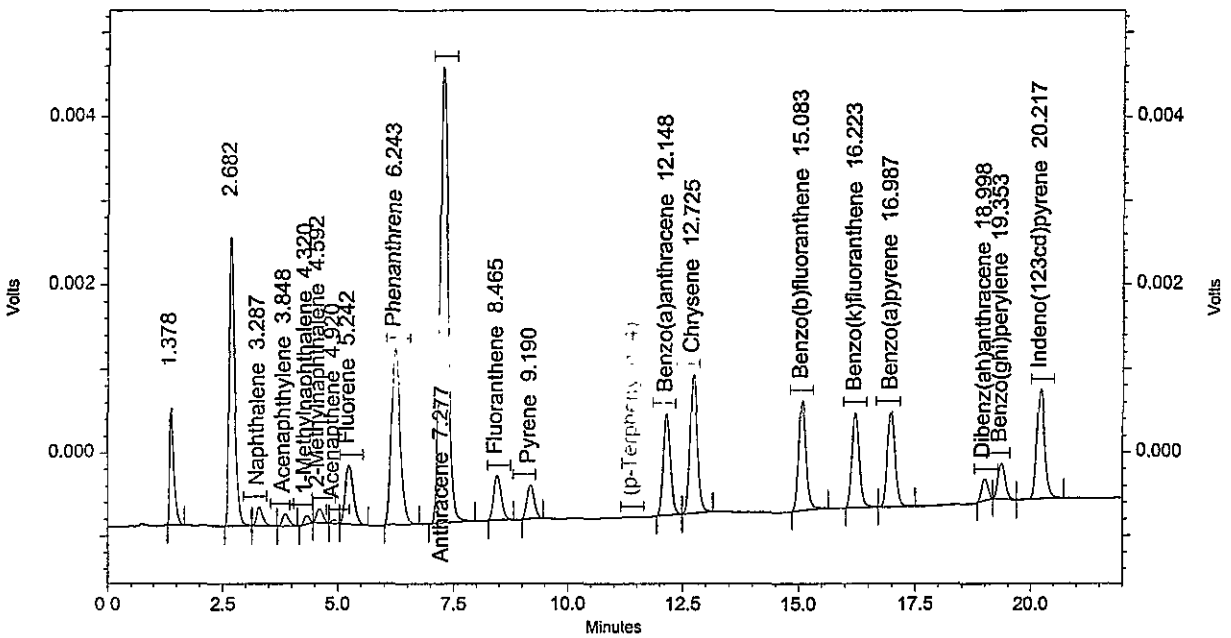
	COMPOUND	known	actual	%D	MAX %D
01	Napthalene	1.00	1.15	14.0	15.0
03	1-Methyl-naphthalene	1.00	1.00	0.0	15.0
04	2-Methyl-naphthalene	1.00	1.24	21.4	15.0
05	Acenapthene	1.00	1.07	6.8	15.0
06	Flourene	1.00	1.05	4.9	15.0
07	Phenanthrene	1.00	1.08	7.7	15.0
08	Anthracene	1.00	1.41	34.0	15.0
09	Flouranthene	1.00	0.85	16.2	15.0
10	Pyrene	1.00	1.28	24.6	15.0
11	Benzo(a)anthracene	1.00	1.08	7.7	15.0
12	Chrysene	1.00	1.16	14.8	15.0
13	Benzo(b)flouranthene	1.00	1.28	24.6	15.0
14	Benzo(k)flouranthene	1.00	1.08	7.7	15.0
15	Benzo(a)pyrene	1.00	1.21	19.0	15.0
16	Dibenz(ah)anthracene	1.00	1.16	14.8	15.0
17	Benzo(ghi)Perylene	1.00	1.20	18.2	15.0
18	Indeno(123cd)pyrene	1.00	1.17	15.7	15.0

AVERAGE: 14.82

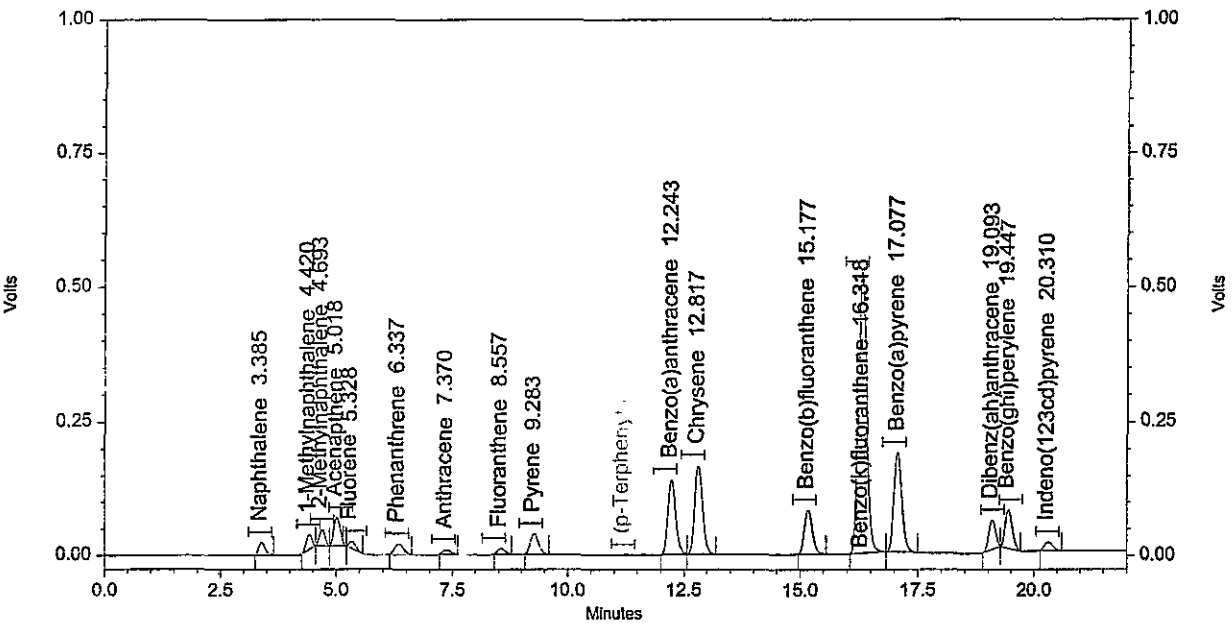
TEST AMERICA, INC. - HPLC Custom Report

Sample Name : 1.0 ppm (5-w-sn-168-3)
Date/Time of analysis : 6/8/2001 07:52:51
Filename : C:\EZChrom Elite\Projects\Default\public\06081c3.002
Method : C:\EZChrom Elite\Methods\Lc3pah0524.met

UV Detector



Fluorescence Detector



TEST AMERICA, INC. - HPLC Custom Report

Sample Name : 1.0 ppm (5-w-sn-168-3)
Date/Time of analysis : 6/8/2001 07:52:51
Filename : C:\EZChrom Elite\Projects\Default\public\0608lc3.002
Method : C:\EZChrom Elite\Methods\Lc3pah0524.met

UV - Report

Name	Retention Time	Area	ESTD concentration
Naphthalene	3.29	2083	1.16
Acenaphthylene	3.85	1475	1.14
1-Methylnaphthalene	4.32	839	1.01
2-Methylnaphthalene	4.59	1618	1.19
Acenaphthene	4.92	377	1.07
Fluorene	5.24	8520	1.13
Phenanthrene	6.24	27250	1.13
Anthracene	7.28	66583	1.14
Fluoranthene	8.46	6087	1.12
Pyrene	9.19	4543	1.10
p-Terphenyl-d14			0.00 BDL
Benzo(a)anthracene	12.15	13328	1.20
Chrysene	12.73	18467	1.04
Benzo(b)fluoranthene	15.08	15048	1.17
Benzo(k)fluoranthene	16.22	12825	1.17
Benzo(a)pyrene	16.99	13104	1.14
Dibenz(ah)anthracene	19.00	2462	1.10
Benzo(ghi)perylene	19.35	4698	1.10
Indeno(123cd)pyrene	20.22	15854	1.15

Fluorescence Report

Name	Retention Time	Area	ESTD concentration
[illegible]	3.39	229081	1.15
[illegible]halene	4.42	242695	1.00
[illegible]halene	4.69	272058	1.24
[illegible]ene	5.02	537425	1.07
[illegible]	5.33	125960	1.05
Phenanthrene	6.34	245615	1.08
Anthracene	7.37	91202	1.41
[illegible]anthene	8.56	106840	0.85
Pyrene	9.28	471983	1.28
p-[illegible]phenyl-d14			0.00 BDL
[illegible]ene	12.24	1645542	1.08
[illegible]	12.82	1954862	1.16
[illegible]anthene	15.18	965987	1.28
[illegible]anthene	16.32	6250464	1.08
[illegible]pyrene	17.08	2245523	1.21
[illegible])anthracene	19.09	559078	1.16
[illegible](ghi)perylene	19.45	807389	1.20
[illegible](123cd)pyrene	20.31	187633	1.17

7A

8310 PAH CONTINUING CALIBRATION CHECK

Lab Name: Test America **Calibration Date:** 05/24/01

SDG # 239033 **Cont. Calib. Date:** 6/8/01

Instrument HPLC 3 **Lab File ID:** 0608LC3.013

UV CHANNEL

	COMPOUND	known	actual	%D	MAX %D
01	Napthalene	1.00	1.13	12.2	15.0
02	Acenapthylene	1.00	1.13	12.2	15.0
03	1-Methyl-naphthalene	1.00	1.33	28.3	15.0
04	2-Methyl-naphthalene	1.00	1.35	29.8	15.0
05	Acenapthene	1.00	1.12	11.3	15.0
06	Flourene	1.00	1.13	12.2	15.0
07	Phenanthrene	1.00	1.13	12.2	15.0
08	Anthracene	1.00	1.12	11.3	15.0
09	Flouranthene	1.00	1.08	7.7	15.0
10	Pyrene	1.00	1.08	7.7	15.0
11	Benzo(a)anthracene	1.00	1.16	14.8	15.0
12	Chrysene	1.00	1.02	2.0	15.0
13	Benzo(b)flouranthene	1.00	1.12	11.3	15.0
14	Benzo(k)flouranthene	1.00	1.16	14.8	15.0
15	Benzo(a)pyrene	1.00	1.13	12.2	15.0
16	Dibenz(ah)anthracene	1.00	1.08	7.7	15.0
17	Benzo(ghi)Perylene	1.00	1.09	8.6	15.0
18	Indeno(123cd)pyrene	1.00	1.11	10.4	15.0

AVERAGE: 12.63

8310 PAH CONTINUING CALIBRATION CHECK

Lab Name: Test America **Calibration Date:** 05/24/01

SDG # 239033 **Cont. Calib. Date:** 6/8/01

Instrument ID: HPLC 3 **Lab File ID:** 0608LC3.013

FLOURECENCE CHANNEL

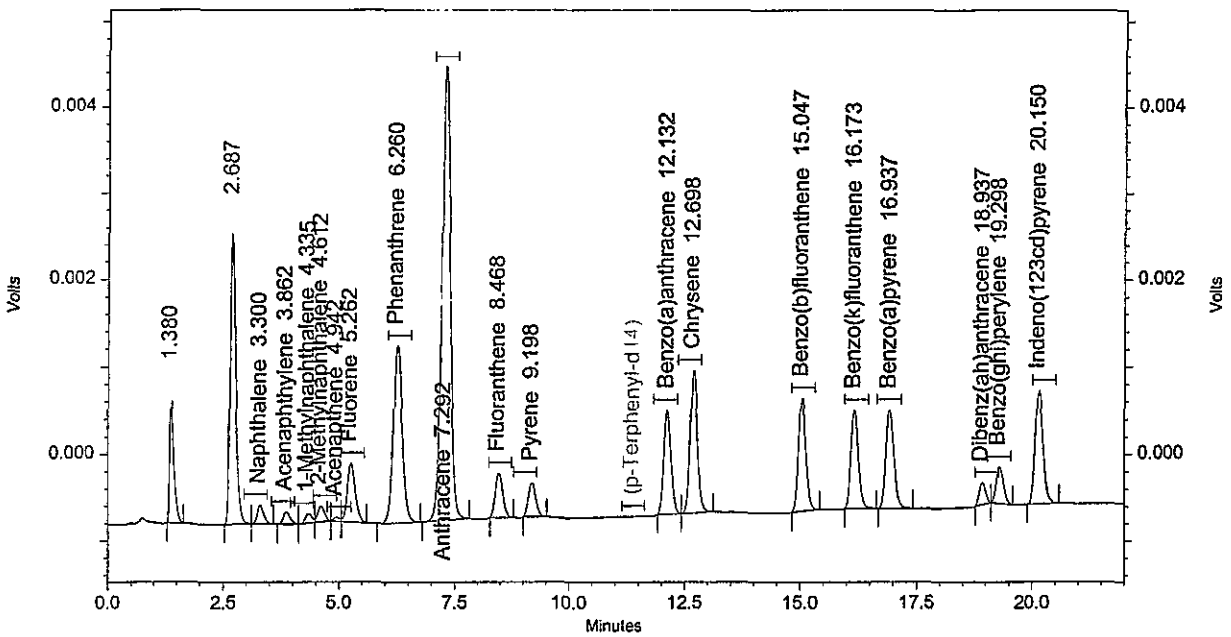
	COMPOUND	known	actual	%D	MAX %D
01	Napthalene	1.00	1.09	8.6	15.0
03	1-Methyl-naphthalene	1.00	0.88	12.8	15.0
04	2-Methyl-naphthalene	1.00	1.04	3.9	15.0
05	Acenapthene	1.00	0.95	5.1	15.0
06	Flourene	1.00	0.94	6.2	15.0
07	Phenanthrene	1.00	0.92	8.3	15.0
08	Anthracene	1.00	1.22	19.8	15.0
09	Flouranthene	1.00	0.88	12.8	15.0
10	Pyrene	1.00	0.99	1.0	15.0
11	Benzo(a)anthracene	1.00	0.99	1.0	15.0
12	Chrysene	1.00	1.09	8.6	15.0
13	Benzo(b)flouranthene	1.00	1.22	19.8	15.0
14	Benzo(k)flouranthene	1.00	1.06	5.8	15.0
15	Benzo(a)pyrene	1.00	1.16	14.8	15.0
16	Dibenz(ah)anthracene	1.00	1.13	12.2	15.0
17	Benzo(ghi)Perylene	1.00	1.18	16.5	15.0
18	Indeno(123cd)pyrene	1.00	1.14	13.1	15.0

AVERAGE: 1002

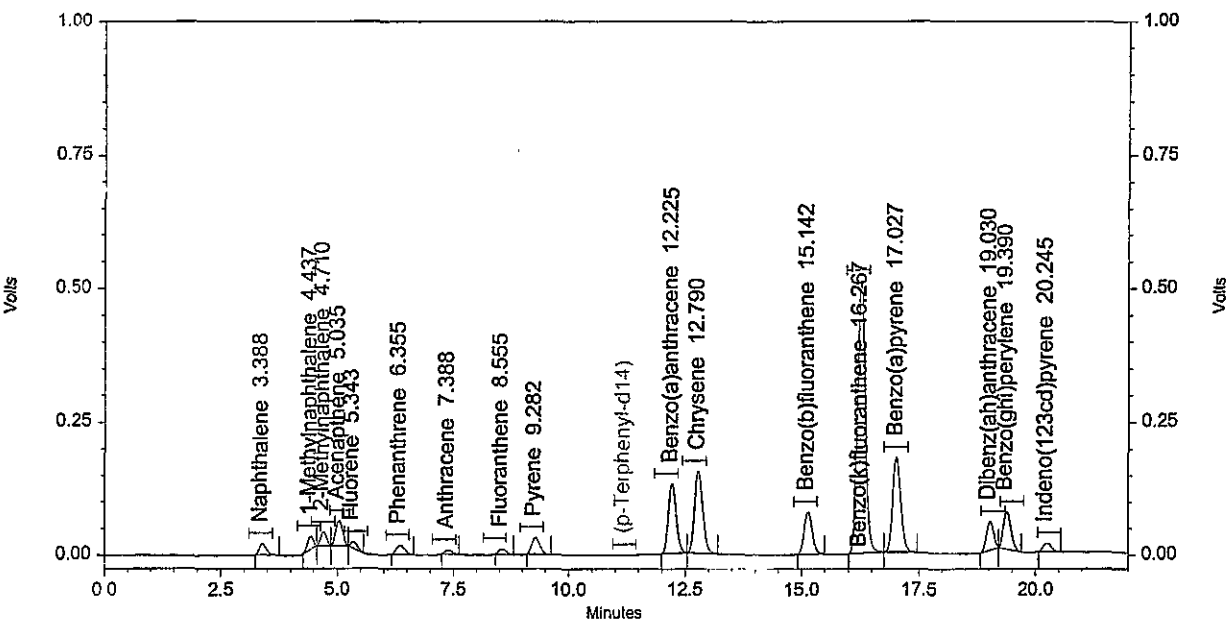
TEST AMERICA, INC. - HPLC Custom Report

Sample Name : 1.0 ppm (5-w-sn-168-3)
Date/Time of analysis : 6/8/2001 12:39:28
Filename : C:\EZChrom Elite\Projects\Default\public\0608lc3.013
Method : C:\EZChrom Elite\Methods\Lc3pah0524.met

UV Detector



Fluorescence Detector



TEST AMERICA, INC. - HPLC Custom Report

Sample Name : 1.0 ppm (5-w-sn-168-3)
Date/Time of analysis : 6/8/2001 12:39:28
Filename : C:\EZChrom Elite\Projects\Default\public\0608lc3.013
Method : C:\EZChrom Elite\Methods\Lc3pah0524.met

UV - Report

Name	Retention Time	Area	ESTD concentration
Naphthalene	3.30	2046	1.13
Acenaphthylene	3.86	1464	1.13
1-Methylnaphthalene	4.34	1110	1.33
2-Methylnaphthalene	4.61	1845	1.35
Acenaphthene	4.94	396	1.12
Fluorene	5.26	8469	1.13
Phenanthrene	6.26	27326	1.13
Anthracene	7.29	65766	1.12
Fluoranthene	8.47	5870	1.08
Pyrene	9.20	4449	1.08
p-Terphenyl-d14			0.00 BDL
Benz[a]anthracene	12.13	12933	1.16
Chrysene	12.70	18136	1.02
Benzo[b]fluoranthene	15.05	14350	1.12
Benzo[k]fluoranthene	16.17	12625	1.16
Benzo[a]pyrene	16.94	13006	1.13
Dibenz[a,h]anthracene	18.94	2422	1.08
Benzo[g,h,i]perylene	19.30	4638	1.09
Indeno(123cd)pyrene	20.15	15408	1.11

Fluorescence Report

Name	Retention Time	Area	ESTD concentration
Naphthalene	3.39	215720	1.09
1-Methylnaphthalene	4.44	211860	0.88
2-Methylnaphthalene	4.71	227442	1.04
Acenaphthene	5.04	475995	0.95
Fluorene	5.34	112974	0.94
Phenanthrene	6.36	209478	0.92
Anthracene	7.39	79222	1.22
Fluoranthene	8.55	110665	0.88
Pyrene	9.28	365843	0.99
p-Terphenyl-d14			0.00 BDL
Benz[a]anthracene	12.23	1510301	0.99
Chrysene	12.79	1825912	1.09
Benzo[b]fluoranthene	15.14	920522	1.22
Benzo[k]fluoranthene	16.27	6112527	1.06
Benzo[a]pyrene	17.03	2146672	1.16
Dibenz[a,h]anthracene	19.03	546994	1.13
Benzo[g,h,i]perylene	19.39	793715	1.18
Indeno[123cd]pyrene	20.25	182899	1.14

7A

8310 PAH CONTINUING CALIBRATION CHECK

Lab Name: Test America **Calibration Date:** 05/24/01

SDG # 239033 **Cont. Calib. Date:** 6/8/01

Instrument HPLC 3 **Lab File ID:** 0608LC3.023

UV CHANNEL

	COMPOUND	known	actual	%D	MAX %D
01	Napthalene	1.00	1.15	14.0	15.0
02	Acenapthylene	1.00	1.15	14.0	15.0
03	1-Methyl-naphthalene	1.00	1.39	32.6	15.0
04	2-Methyl-naphthalene	1.00	1.35	29.8	15.0
05	Acenapthene	1.00	1.27	23.8	15.0
06	Flourene	1.00	1.12	11.3	15.0
07	Phenanthrene	1.00	1.13	12.2	15.0
08	Anthracene	1.00	1.12	11.3	15.0
09	Flouranthene	1.00	1.08	7.7	15.0
10	Pyrene	1.00	1.11	10.4	15.0
11	Benzo(a)anthracene	1.00	1.15	14.0	15.0
12	Chrysene	1.00	1.02	2.0	15.0
13	Benzo(b)flouranthene	1.00	1.11	10.4	15.0
14	Benzo(k)flouranthene	1.00	1.15	14.0	15.0
15	Benzo(a)pyrene	1.00	1.11	10.4	15.0
16	Dibenz(ah)anthracene	1.00	1.07	6.8	15.0
17	Benzo(ghi)Perylene	1.00	1.09	8.6	15.0
18	Indeno(123cd)pyrene	1.00	1.06	5.8	15.0

AVERAGE: 13.24

8310 PAH CONTINUING CALIBRATION CHECK

Lab Name: Test America **Calibration Date:** 05/24/01

SDG # 239033 **Cont. Calib. Date:** 6/8/01

Instrument ID: HPLC 3 **Lab File ID:** 0608LC3.023

FLOURECENCE CHANNEL

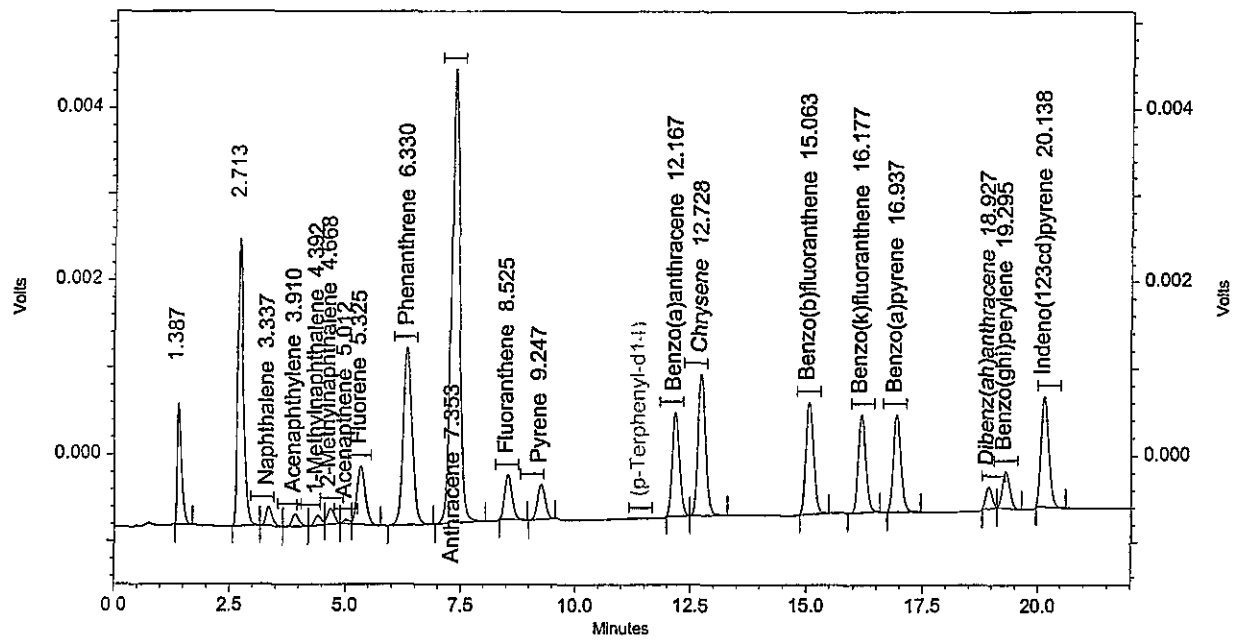
	COMPOUND	known	actual	%D	MAX %D
01	Napthalene	1.00	1.07	6.8	15.0
03	1-Methyl-naphthalene	1.00	0.89	11.6	15.0
04	2-Methyl-naphthalene	1.00	1.03	3.0	15.0
05	Acenapthene	1.00	0.98	2.0	15.0
06	Flourene	1.00	1.03	3.0	15.0
07	Phenanthrene	1.00	0.99	1.0	15.0
08	Anthracene	1.00	1.20	18.2	15.0
09	Flouranthene	1.00	0.97	3.0	15.0
10	Pyrene	1.00	1.02	2.0	15.0
11	Benzo(a)anthracene	1.00	0.99	1.0	15.0
12	Chrysene	1.00	1.07	6.8	15.0
13	Benzo(b)flouranthene	1.00	1.20	18.2	15.0
14	Benzo(k)flouranthene	1.00	1.05	4.9	15.0
15	Benzo(a)pyrene	1.00	1.16	14.8	15.0
16	Dibenz(ah)anthracene	1.00	1.14	13.1	15.0
17	Benzo(ghi)Perylene	1.00	1.19	17.4	15.0
18	Indeno(123cd)pyrene	1.00	1.16	14.8	15.0

AVERAGE: 8.32

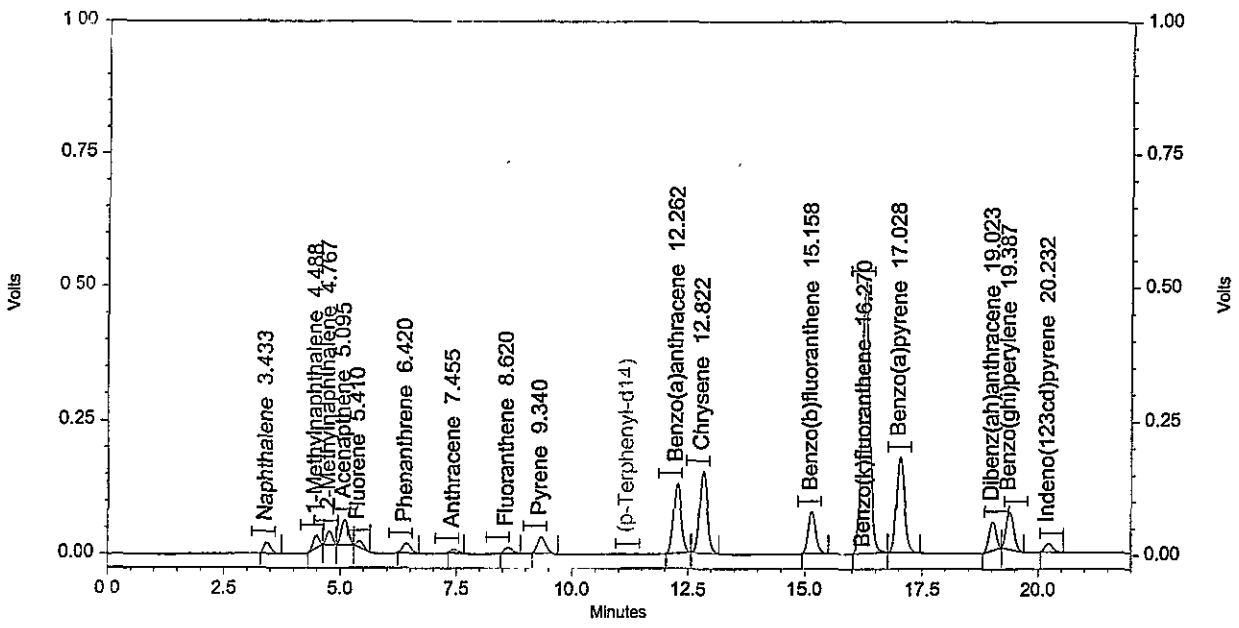
TEST AMERICA, INC. - HPLC Custom Report

Sample Name : 1.0 ppm (5-w-sn-168-3)
Date/Time of analysis : 6/8/2001 16:41:49
Filename : C:\EZChrom Elite\Projects\Default\public\0608lc3.023
Method : C:\EZChrom Elite\Methods\Lc3pah0524.met

UV Detector



Fluorescence Detector



TEST AMERICA, INC. - HPLC Custom Report

Sample Name : 1.0 ppm (5-w-sn-168-3)
Date/Time of analysis : 6/8/2001 16:41:49
Filename : C:\EZChrom Elite\Projects\Default\public\0608lc3.023
Method : C:\EZChrom Elite\Methods\Lc3pah0524.met

UV - Report

Name	Retention Time	Area	ESTD concentration
Naphthalene	3.34	2071	1.15
Acenaphthylene	3.91	1484	1.15
1-Methylnaphthalene	4.39	1160	1.39
2-Methylnaphthalene	4.67	1836	1.35
Acenaphthene	5.01	446	1.27
Fluorene	5.33	8419	1.12
Phenanthrene	6.33	27217	1.13
Anthracene	7.35	65698	1.12
Fluoranthene	8.53	5865	1.08
Pyrene	9.25	4582	1.11
p-Terphenyl-d14			0.00 BDL
Benzo(a)anthracene	12.17	12817	1.15
Chrysene	12.73	18085	1.02
Benzo(b)fluoranthene	15.06	14210	1.11
Benzo(k)fluoranthene	16.18	12517	1.15
Benzo(a)pyrene	16.94	12748	1.11
Dibenz(a,h)anthracene	18.93	2395	1.07
Benzo(ghi)perylene	19.30	4633	1.09
Indeno(1,2,3cd)pyrene	20.14	14643	1.06

Fluorescence Report

Name	Retention Time	Area	ESTD concentration
Naphthalene	3.43	212586	1.07
1-Methylnaphthalene	4.49	215326	0.89
2-Methylnaphthalene	4.77	226556	1.03
Acenaphthene	5.10	490553	0.98
Fluorene	5.41	123285	1.03
Phenanthrene	6.42	225149	0.99
Anthracene	7.46	77614	1.20
Fluoranthene	8.62	122433	0.97
Pyrene	9.34	375959	1.02
p-Terphenyl-d14			0.00 BDL
Benzo(a)anthracene	12.26	1500937	0.99
Chrysene	12.82	1799185	1.07
Benzo(b)fluoranthene	15.16	912115	1.20
Benzo(k)fluoranthene	16.27	6050785	1.05
Benzo(a)pyrene	17.03	2144069	1.16
Dibenz(a,h)anthracene	19.02	548733	1.14
Benzo(ghi)perylene	19.39	802096	1.19
Indeno(1,2,3cd)pyrene	20.23	185037	1.16

TestAmerica
INCORPORATED

Sample Identification

BLANK

Matrix: Water
% Dry Weight:
Units: UG/L
Dilution Factor: 1
Analysis Method: SW8310
Delivery Group: 239033
Instrument:
Vol Extracted: 1000 ml
Extract Vol: 1.0 ml

Lab Sample ID: BLANK
Date Sampled: 5/23/01
Date Received: 5/26/01
Analysis Date: 6/ 8/01
Analysis Time: 10:14
Sample QC Group: 3139

Extraction Date:

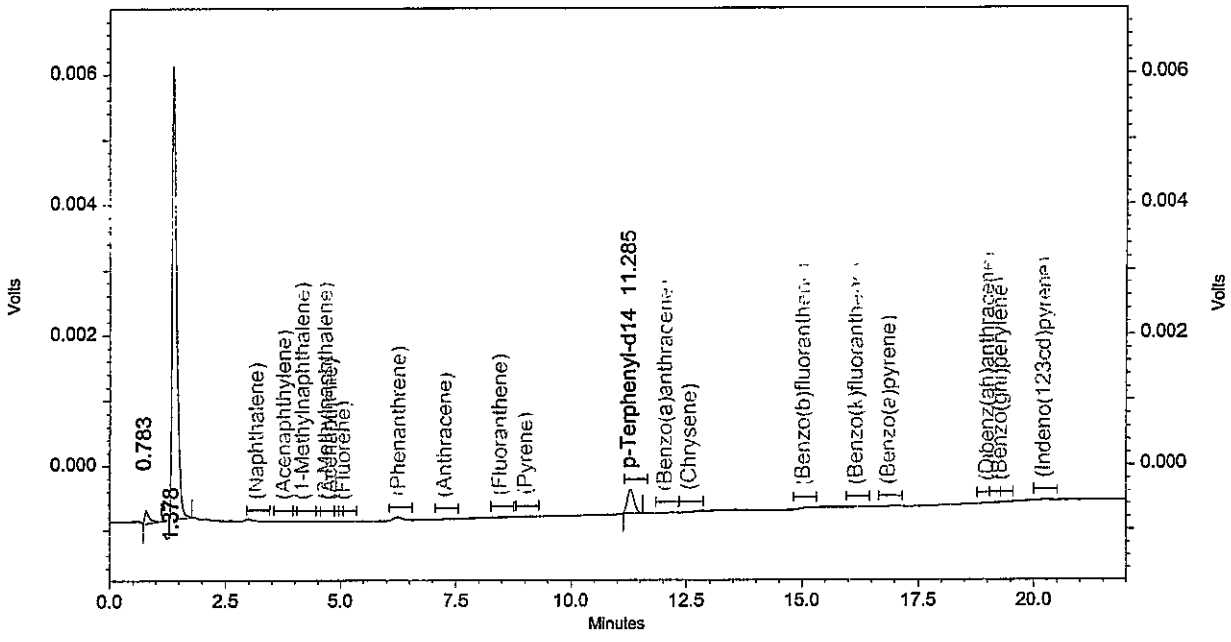
FORM I

CAS NUMBER	ANALYTE	CONCENTRATION		FLAG
91-20-3	Naphthalene	1.00	....	U
208-96-8	Acenaphthene	0.20	....	U
120-12-7	Anthracene	0.25	....	U
206-44-0	Fluoranthene	0.20	....	U
86-73-7	Fluorene	0.20	....	U
129-00-0	Pyrene	0.20	....	U
56-55-3	Benzo(a)anthracene	0.05	....	U
50-32-8	Benzo(a)pyrene	0.10	....	U
205-99-2	Benzo(b)fluoranthene	0.18	....	U
207-08-9	Benzo(k)fluoranthene	0.17	....	U
218-01-9	Chrysene	0.15	....	U
53-70-3	Dibenzo(a,h)anthracene	0.20	....	U
193-39-5	Indeno(1,2,3-cd)pyrene	0.40	....	U
208-96-8	Acenaphthylene	0.20	....	U
191-24-2	Benzo(g,h,i)perylene	0.20	....	U
85-01-8	Phenanthrene	0.20	....	U
90-12-0	1-Methylnapthalene	1.00	....	U
91-57-6	2-Methylnaphthalene	1.00	....	U

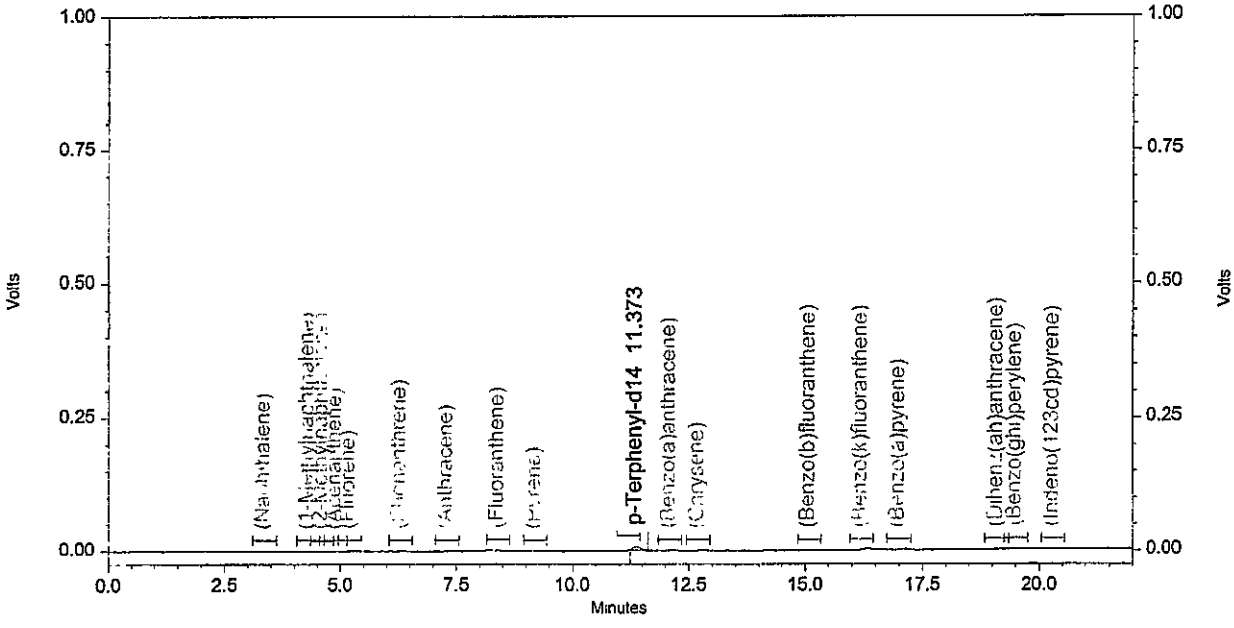
TEST AMERICA, INC. - HPLC Custom Report

Sample Name : 44000 wbb
Date/Time of analysis : 6/8/2001 08:27:22
Filename : C:\EZChrom Elite\Projects\Default\public\0608lc3.003
Method : C:\EZChrom Elite\Methods\Lc3pah0524.met

UV Detector



Fluorescence Detector



TEST AMERICA, INC. - HPLC Custom Report

Sample Name : 44000 wbb
Date/Time of analysis : 6/8/2001 08:27:22
Filename : C:\EZChrom Elite\Projects\Default\public\0608lc3.003
Method : C:\EZChrom Elite\Methods\Lc3pah0524.met

UV - Report

Name	Retention Time	Area	ESTD concentration
Naphthalene			0.00 BDL
Acenaphthylene			0.00 BDL
1-Methylnaphthalene			0.00 BDL
2-Methylnaphthalene			0.00 BDL
Acenapthene			0.00 BDL
Fluorene			0.00 BDL
Phenanthrene			0.00 BDL
Anthracene			0.00 BDL
Fluoranthene			0.00 BDL
Pyrene			0.00 BDL
p-Terphenyl-d14	11.29	3785	1.09
Benzo(a)anthracene			0.00 BDL
Chrysene			0.00 BDL
Benzo(b)fluoranthene			0.00 BDL
Benzo(k)fluoranthene			0.00 BDL
Benzo(a)pyrene			0.00 BDL
Dibenz(ah)anthracene			0.00 BDL
Benzo(ghi)perylene			0.00 BDL
Indeno(123cd)pyrene			0.00 BDL

Fluorescence Report

Name	Retention Time	Area	ESTD concentration
Naphthalene			0.00 BDL
1-Methylnaphthalene			0.00 BDL
2-Methylnaphthalene			0.00 BDL
Acenapthene			0.00 BDL
Fluorene			0.00 BDL
Phenanthrene			0.00 BDL
Anthracene			0.00 BDL
Fluoranthene			0.00 BDL
Pyrene			0.00 BDL
p-Terphenyl-d14	11.37	72344	0.91 ✓
Benzo(a)anthracene			0.00 BDL
Chrysene			0.00 BDL
Benzo(b)fluoranthene			0.00 BDL
Benzo(k)fluoranthene			0.00 BDL
Benzo(a)pyrene			0.00 BDL
Dibenz(ah)anthracene			0.00 BDL
Benzo(ghi)perylene			0.00 BDL
Indeno(123cd)pyrene			0.00 BDL

1C SAMPLE NO.

8310 PAH ANALYSIS DATA SHEET

029-DMW01-Q2-01-12 MS

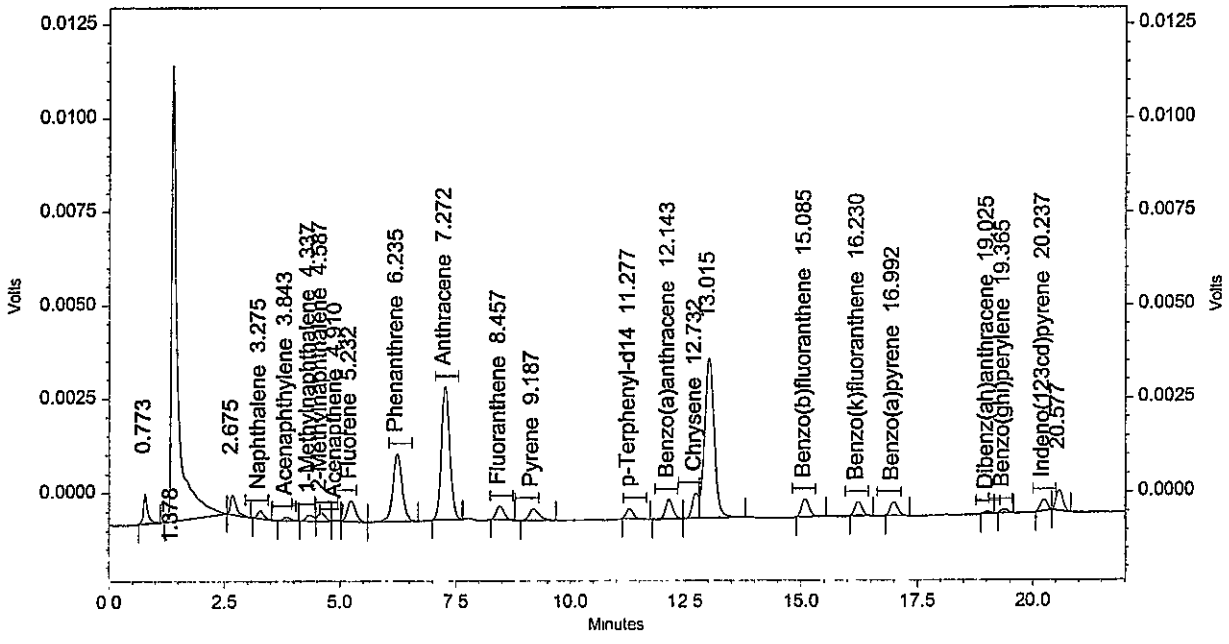
Lab Name:	Test America	**Lab Sample ID:**	44001 wsb
SDG #:	239033	**Lab File ID:**	0608lc3.004
Matrix:	water	**Date Analyzed:**	06/08/01
Extract Volume:	1 ml	**Date Received:**	05/26/01
Volume Extracted	1000 ml	**Date Extracted:**	05/29/01
HPLC Column:	Reverse Pahse c18	**Injection Volume:**	5.0 ul

CAS N	Compound	ug/L		Q
	Napthalene	0.94		
	Acenapthylene	0.75		
	1-Methyl-naphthalene	0.98		
	2-Methyl-naphthalene	1.04		
	Acenapthene	0.71		
	Flourene	0.83		
	Phenanthrene	1.01		
	Anthracene	0.61		
	Flouranthene	0.56		
	Pyrene	0.66		
	Benzo(a)anthracene	0.43		
	Chrysene	0.44		
	Benzo(b)flouranthene	0.43		
	Benzo(k)flouranthene	0.35		
	Benzo(a)pyrene	0.37		
	Dibenz(ah)anthracene	0.29		
	Benzo(ghi)Perylene	0.29		
	Indeno(123cd)pyrene	0.32		

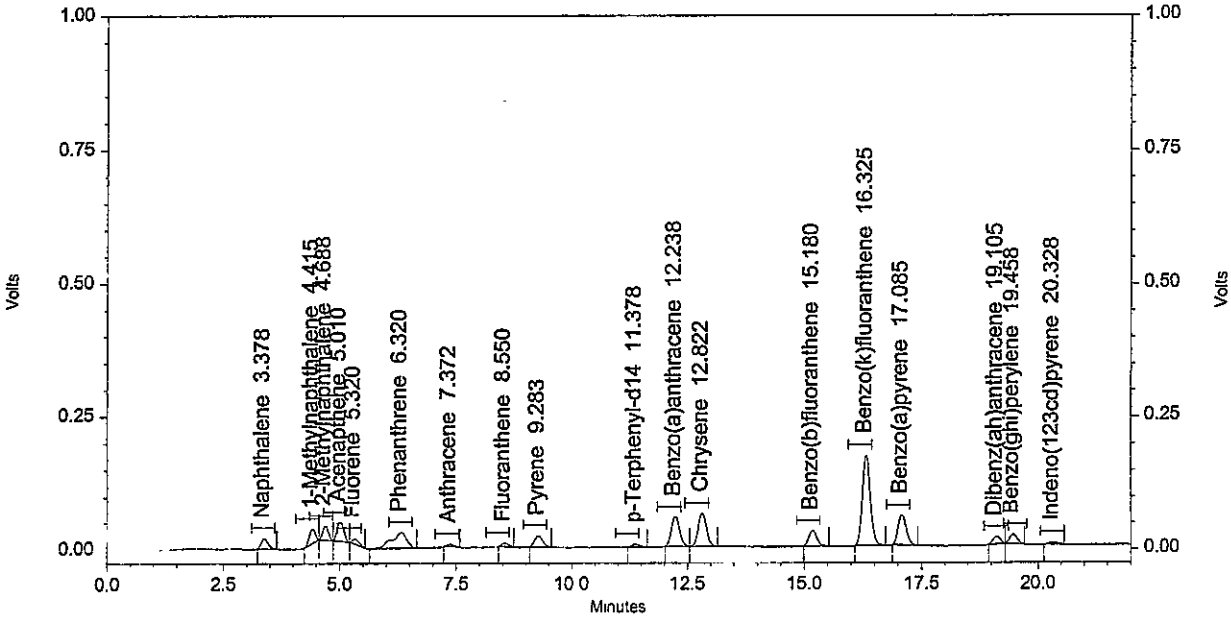
TEST AMERICA, INC. - HPLC Custom Report

Sample Name : 44001 wsb
Date/Time of analysis : 6/8/2001 09:01:22
Filename : C:\EZChrom Elite\Projects\Default\public\0608lc3.004
Method : C:\EZChrom Elite\Methods\Lc3pah0524.met

UV Detector



Fluorescence Detector



TEST AMERICA, INC. - HPLC Custom Report

Sample Name : 44001 wsb
Date/Time of analysis : 6/8/2001 09:01:22
Filename : C:\EZChrom Elite\Projects\Default\public\0608lc3.004
Method : C:\EZChrom Elite\Methods\Lc3pah0524.met

UV - Report

Name	Retention Time	Area	ESTD concentration
Naphthalene	3.27	2002	1.11
Acenaphthylene	3.84	1009	0.75
1-Methylnaphthalene	4.34	1798	2.13
2-Methylnaphthalene	4.59	2408	1.75
Acenapthene	4.91	292	0.86
Fluorene	5.23	6708	0.93
Phenanthrene	6.24	24720	1.02
Anthracene	7.27	43536	0.74
Fluoranthene	8.46	4019	0.74
Pyrene	9.19	4425	1.08
p-Terphenyl-d14	11.28	2805	0.81
Benzo(a)anthracene	12.14	5785	0.52
Chrysene	12.73	6328	0.36
Benzo(b)fluoranthene	15.09	5250	0.41
Benzo(k)fluoranthene	16.23	3926	0.36
Benzo(a)pyrene	16.99	3986	0.35
Dibenz(ah)anthracene	19.02	545	0.24
Benzo(ghi)perylene	19.37	943	0.22
Indeno(123cd)pyrene	20.24	3067	0.22

Fluorescence Report

Name	Retention Time	Area	ESTD concentration
Naphthalene	3.38	186743	0.94
1-Methylnaphthalene	4.41	237717	0.98
2-Methylnaphthalene	4.69	227420	1.04
Acenapthene	5.01	356018	0.71
Fluorene	5.32	96813	0.83
Phenanthrene	6.32	660288	3.01
Anthracene	7.37	48998	0.61
Fluoranthene	8.55	70196	0.56
Pyrene	9.28	241541	0.66
p-Terphenyl-d14	11.38	62768	0.79
Benzo(a)anthracene	12.24	660719	0.43
Chrysene	12.82	746913	0.44
Benzo(b)fluoranthene	15.18	327869	0.43
Benzo(k)fluoranthene	16.32	2040786	0.35
Benzo(a)pyrene	17.08	677795	0.37
Dibenz(ah)anthracene	19.11	138548	0.29
Benzo(ghi)perylene	19.46	197360	0.29
Indeno(123cd)pyrene	20.33	51721	0.32

1C SAMPLE NO.

8310 PAH ANALYSIS DATA SHEET

029-DMW01-Q2-01-12 MSD

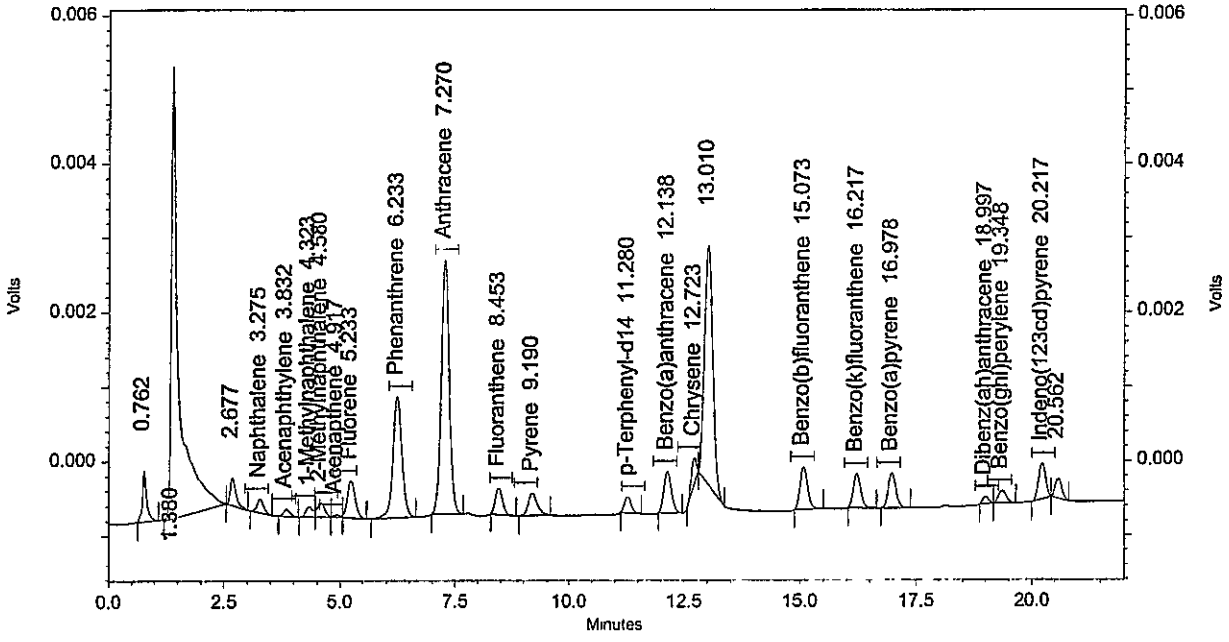
Lab Name:	Test America	**Lab Sample ID:**	44002 wsb
SDG #:	239033	**Lab File ID:**	0608lc3.005
Matrix:	water	**Date Analyzed:**	06/08/01
Extract Volume:	1 ml	**Date Received:**	05/26/01
Volume Extracted:	1000 ml	**Date Extracted:**	05/29/01
HPLC Column:	Reverse Pahse c18	**Injection Volume:**	5.0 ul

CAS No.	Compound	ug/L		Q
	Napthalene	0.80		
	Acenapthylene	0.71		
	1-Methyl-naphthalene	0.82		
	2-Methyl-naphthalene	0.90		
	Acenapthene	0.64		
	Flourene	0.71		
	Phenanthrene	0.93		
	Anthracene	0.75		
	Flouranthene	0.76		
	Pyrene	0.67		
	Benzo(a)anthracene	0.47		
	Chrysene	0.48		
	Benzo(b)flouranthene	0.53		
	Benzo(k)flouranthene	0.44		
	Benzo(a)pyrene	0.49		
	Dibenz(ah)anthracene	0.44		
	Benzo(ghi)Perylene	0.46		
	Indeno(123cd)pyrene	0.35		

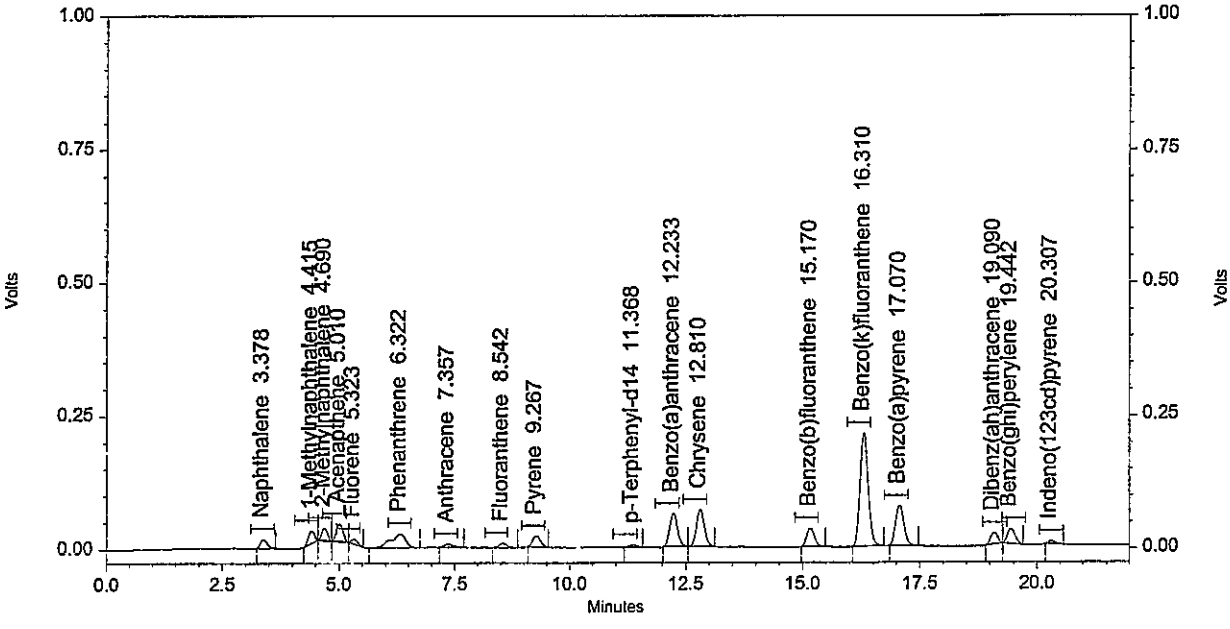
TEST AMERICA, INC. - HPLC Custom Report

Sample Name : 44002 wsb
Date/Time of analysis : 6/8/2001 09:25:39
Filename : C:\EZChrom Elite\Projects\Default\public\0608lc3.005
Method : C:\EZChrom Elite\Methods\Lc3pah0524.met

UV Detector



Fluorescence Detector



TEST AMERICA, INC. - HPLC Custom Report

Sample Name : 44002 wsb
Date/Time of analysis : 6/8/2001 09:25:39
Filename : C:\EZChrom Elite\Projects\Default\public\0608lc3.005
Method : C:\EZChrom Elite\Methods\Lc3pah0524.met

UV - Report

Name	Retention Time	Area	ESTD concentration
Naphthalene	3.27	1835	1.02
Acenaphthylene	3.83	956	0.71
1-Methylnaphthalene	4.32	1553	1.84
2-Methylnaphthalene	4.58	2096	1.52
Acenapthene	4.92	306	0.90
Fluorene	5.23	6046	0.84
Phenanthrene	6.23	22482	0.93
Anthracene	7.27	42076	0.72
Fluoranthene	8.45	4070	0.75
Pyrene	9.19	4185	1.03
p-Terphenyl-d14	11.28	2212	0.64
Benzo(a)anthracene	12.14	6060	0.54
Chrysene	12.72	2621	0.15
Benzo(b)fluoranthene	15.07	6331	0.49
Benzo(k)fluoranthene	16.22	5117	0.47
Benzo(a)pyrene	16.98	5480	0.48
Dibenz(ah)anthracene	19.00	841	0.37
Benzo(ghi)perylene	19.35	1866	0.44
Indeno(123cd)pyrene	20.22	5273	0.38

Fluorescence Report

Name	Retention Time	Area	ESTD concentration
Naphthalene	3.38	159531	0.80
1-Methylnaphthalene	4.41	199029	0.82
2-Methylnaphthalene	4.69	196996	0.90
Acenapthene	5.01	323037	0.64
Fluorene	5.32	83344	0.71
Phenanthrene	6.32	598836	2.73
Anthracene	7.36	77884	0.97
Fluoranthene	8.54	96002	0.76
Pyrene	9.27	245211	0.67
p-Terphenyl-d14	11.37	52993	0.67
Benzo(a)anthracene	12.23	715670	0.47
Chrysene	12.81	798328	0.48
Benzo(b)fluoranthene	15.17	398109	0.53
Benzo(k)fluoranthene	16.31	2550264	0.44
Benzo(a)pyrene	17.07	901410	0.49
Dibenz(ah)anthracene	19.09	212802	0.44
Benzo(ghi)perylene	19.44	311952	0.46
Indeno(123cd)pyrene	20.31	56360	0.35

1C SAMPLE NO

8310 PAH ANALYSIS DATA SHEET

CONTROL W

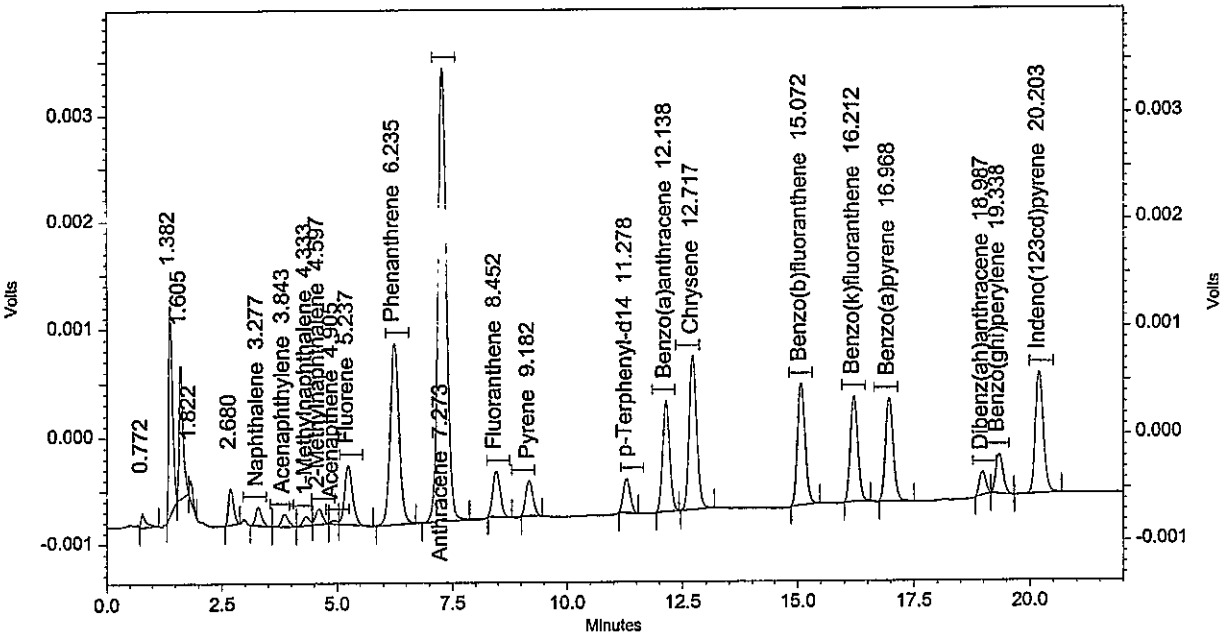
Lab Name:	Test America	**Lab Sample ID:**	35149 lcs
SDG #:	239033	**Lab File ID:**	0608lc3.006
Matrix:	water	**Date Analyzed:**	06/08/01
Extract Volume:	1 ml	**Date Received:**	05/26/01
Volume Extracted:	1000 ml	**Date Extracted:**	05/29/01
HPLC Column:	Reverse Pahse c18	**Injection Volume:**	5.0 ul

CAS No	Compound	ug/L		Q
	Napthalene	0.84		
	Acenapthylene	0.87		
	1-Methyl-naphthalene	0.67		
	2-Methyl-naphthalene	0.78		
	Acenapthene	0.75		
	Flourene	0.82		
	Phenanthrene	0.87		
	Anthracene	0.96		
	Flouranthene	0.65		
	Pyrene	0.86		
	Benzo(a)anthracene	0.87		
	Chrysene	0.96		
	Benzo(b)flouranthene	1.07		
	Benzo(k)flouranthene	0.93		
	Benzo(a)pyrene	1.00		
	Dibenz(ah)anthracene	0.98		
	Benzo(ghi)Perylene	1.01		
	Indeno(123cd)pyrene	1.00		

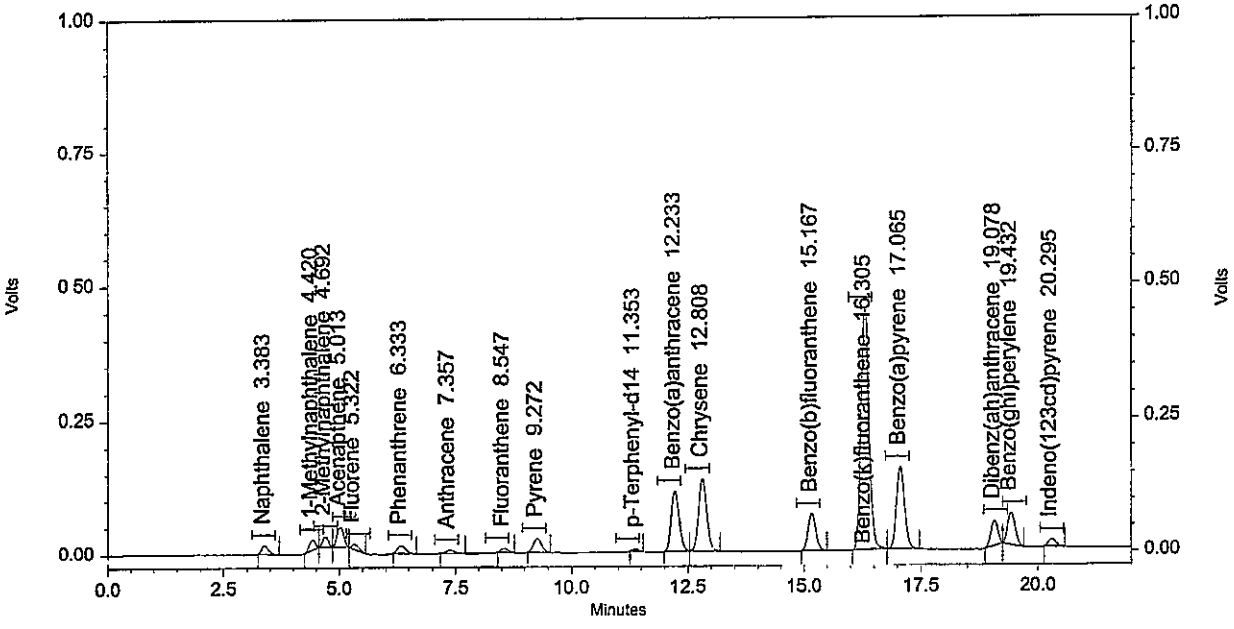
TEST AMERICA, INC. - HPLC Custom Report

Sample Name : 35149 lcs
Date/Time of analysis : 6/8/2001 09:49:49
Filename : C:\EZChrom Elite\Projects\Default\public\0608lc3.006
Method : C:\EZChrom Elite\Methods\Lc3pah0524.met

UV Detector



Fluorescence Detector



TEST AMERICA, INC. - HPLC Custom Report

Sample Name : 35149 lcs
Date/Time of analysis : 6/8/2001 09:49:49
Filename : C:\EZChrom Elite\Projects\Default\public\0608lc3.006
Method : C:\EZChrom Elite\Methods\Lc3pah0524.met

UV - Report

Name	Retention Time	Area	ESTD concentration
Naphthalene	3.28	1656	0.92
Acenaphthylene	3.84	1173	0.87
1-Methylnaphthalene	4.33	857	1.01
2-Methylnaphthalene	4.60	1494	1.08
Acenapthene	4.91	328	0.96
Fluorene	5.24	6922	0.96
Phenanthrene	6.24	22673	0.94
Anthracene	7.27	53475	0.91
Fluoranthene	8.45	4861	0.90
Pyrene	9.18	3664	0.91
p-Terphenyl-d14	11.28	3339	0.96
Benzo(a)anthracene	12.14	11343	1.02
Chrysene	12.72	15959	0.90
Benzo(b)fluoranthene	15.07	12709	0.99
Benzo(k)fluoranthene	16.21	10878	1.00
Benzo(a)pyrene	16.97	10986	0.96
Dibenz(ah)anthracene	18.99	2082	0.93
Benzo(ghi)perylene	19.34	4070	0.95
Indeno(123cd)pyrene	20.20	13648	0.99

Fluorescence Report

Name	Retention Time	Area	ESTD concentration
Naphthalene	3.38	166287	0.84
1-Methylnaphthalene	4.42	162716	0.67
2-Methylnaphthalene	4.69	171221	0.78
Acenapthene	5.01	378692	0.75
Fluorene	5.32	96130	0.82
Phenanthrene	6.33	189714	0.87
Anthracene	7.36	76747	0.96
Fluoranthene	8.55	81682	0.65
Pyrene	9.27	317080	0.86
p-Terphenyl-d14	11.35	41453	0.52
Benzo(a)anthracene	12.23	1328848	0.87
Chrysene	12.81	1607637	0.96
Benzo(b)fluoranthene	15.17	808000	1.07
Benzo(k)fluoranthene	16.30	5382211	0.93
Benzo(a)pyrene	17.07	1846441	1.00
Dibenz(ah)anthracene	19.08	474204	0.98
Benzo(ghi)perylene	19.43	683303	1.01
Indeno(123cd)pyrene	20.30	159967	1.00

Worklist: 9617 Worklist format: enwlext
Treated on: 5/26/01 by: M.McBride

HPLC Water

	Log number	Due Date	Due Time	Target Date
1.	blank 44000WSB			
2.	01-A71048	6/ 9/01		6/ 9/01
3.	01-A71049	6/ 9/01		6/ 9/01
4.	01-A71050	6/ 9/01		6/ 9/01
5.	01-A71051	6/ 9/01		6/ 9/01
6.	01-A71052	6/ 9/01		6/ 9/01
7.	01-A71053	6/ 9/01		6/ 9/01
8.	01-A71054	6/ 9/01		6/ 9/01
9.	01-A71055	6/ 9/01		6/ 9/01
10.	01-A71056	6/ 9/01		6/ 9/01
11.	01-A71057	6/ 9/01		6/ 9/01
12.	01-A71058	6/ 9/01		6/ 9/01
13.	01-A71059	6/ 9/01		6/ 9/01
14.	01-A71060	6/ 9/01		6/ 9/01
15.	01-A71061	6/ 9/01		6/ 9/01
16.	01-A71062	6/ 9/01		6/ 9/01
17.	Spike 44001WSB			
18.	mspkdup 44002WSB			
19.	known * 35149LCS			

MS/MSD

SW-846 DOC

SEE REMARKS

CLIENT NOTES

HPLC PAH EXTRACTIONS -- WATER

Worklist #: 9617 Date Created: 5/25/01

Analyst: M.McBride Date Extracted: 5/29/01 DC

Position	Sample ID	Extraction	Vol Ext'd	Ext. Vol
1.	blank	C	1000	1
2.	01-A71042		995	
	SW-846 DOC LEVEL III MS/MSD-71060 SEE ATTACHED PARAMETERS/IF NOT ATTACHED SEE MIKE MC.			
3.	01-A71043		990	
	SW-846 DOC LEVEL III MS/MSD-71060 SEE ATTACHED PARAMETERS/IF NOT ATTACHED SEE MIKE MC.			
4.	01-A71050		995	
	SW-846 DOC LEVEL III MS/MSD-71060 SEE ATTACHED PARAMETERS/IF NOT ATTACHED SEE MIKE MC.			
5.	01-A71051		920	
	SW-846 DOC LEVEL III MS/MSD-71060 SEE ATTACHED PARAMETERS/IF NOT ATTACHED SEE MIKE MC.			
6.	01-A71052		920	
	SW-846 DOC LEVEL III MS/MSD-71060 SEE ATTACHED PARAMETERS/IF NOT ATTACHED SEE MIKE MC.			
7.	01-A71053		940	
	SW-846 DOC LEVEL III MS/MSD-71060 SEE ATTACHED PARAMETERS/IF NOT ATTACHED SEE MIKE MC.			
8.	01-A71054		960	
	SW-846 DOC LEVEL III MS/MSD-71060 SEE ATTACHED PARAMETERS/IF NOT ATTACHED SEE MIKE MC.			

HPLC PAH EXTRACTIONS -- WATER

Worklist #: 9617 Date Created: 5/26/01

Analyst: M.McBride Date Extracted:

Position	Sample ID	Extraction	Vol Ext'd	Ext. Vol
9.	Ø1-A71Ø55		1000	
	SW-846 DOC LEVEL III MS/MSD-71Ø6Ø SEE ATTACHED PARAMETERS/IF NOT ATTACHED SEE MIKE MC.			
1Ø.	Ø1-A71Ø56		980	
	SW-846 DOC LEVEL III MS/MSD-71Ø6Ø SEE ATTACHED PARAMETERS/IF NOT ATTACHED SEE MIKE MC.			
11.	Ø1-A71Ø57		1000	
	SW-846 DOC LEVEL III MS/MSD-71Ø6Ø SEE ATTACHED PARAMETERS/IF NOT ATTACHED SEE MIKE MC.			
12.	Ø1-A71Ø58		980	
	SW-846 DOC LEVEL III MS/MSD-71Ø6Ø SEE ATTACHED PARAMETERS/IF NOT ATTACHED SEE MIKE MC.			
13.	Ø1-A71Ø59		990	
	SW-846 DOC LEVEL III MS/MSD-71Ø6Ø SEE ATTACHED PARAMETERS/IF NOT ATTACHED SEE MIKE MC.			
14.	Ø1-A71Ø6Ø		970	
	SW-846 DOC LEVEL III MS/MSD-71Ø6Ø SEE ATTACHED PARAMETERS/IF NOT ATTACHED SEE MIKE MC.			
15.	Ø1-A71Ø61		980	
	SW-846 DOC LEVEL III MS/MSD-71Ø6Ø SEE ATTACHED PARAMETERS/IF NOT ATTACHED SEE MIKE MC.			
16.	Ø1-A71Ø62		970	
	SW-846 DOC LEVEL III MS/MSD-71Ø6Ø SEE ATTACHED PARAMETERS/IF NOT ATTACHED SEE MIKE MC.			

HPLC PAH EXTRACTIONS -- WATER

Worklist #: 9617 Date Created: 5/26/01

Analyst: M.McBride Date Extracted:

Position	Sample ID	Extraction	Vol Ext'd	Ext. Vol
17.	Spike	Original: 14	Spike Solution: ~~1000~~ 960 AN 5/29/01	
18.	mspkdup	Original: 7	Spike Solution: 910	
19.	known	Laboratory Control Sample: 1000		

METHYLENE CHLORIDE: P060548-2
ACETONE:
HEXANE:
DIETHYL ETHER:
1,1,2-TRICHLOROTRIFLUOROETHANE (FREON):
METHANOL:
ACETONITRILE: PLAN40-3
SILICA GEL:
TOLUENE:
SODIUM CHLORIDE:
PENTANE:
FLORISIL:
SODIUM HYDROXIDE:
SULFURIC ACID:
SODIUM SULFATE (anhydrous): PLAN40-1
HYDROCHLORIC ACID:
EDTA:
BORON TRIFLUORIDE/METHANOL (BF-3):
SODIUM SULFATE (aqueous):
POTASSIUM HYDROXIDE (37%):
SULFURIC ACID (25%):
HEXANE/ACETONE MIX (70:30):

SURROGATE: 5WSN133-7 1ml

SPIKE: 5WSN168-3 1ml RL

LCS:

Oil and Grease Water Bath Temperature:

Soxhlet Extraction Start time: Finish Time:

pH Adjustment: NaOH addition: Sulfuric Acid addition:

Secondary Verification of Samples, Spike, Surrogate, LCS and Extraction Date by: 5/29/01 MW

1.0 ppm (5-w-sn-168-3)	Lc3pah0524.met	0608lc3.001
1.0 ppm (5-w-sn-168-3)	Lc3pah0524.met	0608lc3.002
44000 wbb	Lc3pah0524.met	0608lc3.003
44001 wsb	Lc3pah0524.met	0608lc3.004
44002 wsb	Lc3pah0524.met	0608lc3.005
35149 lcs	Lc3pah0524.met	0608lc3.006
71048	Lc3pah0524.met	0608lc3.007
71049	Lc3pah0524.met	0608lc3.008
71050	Lc3pah0524.met	0608lc3.009
71051	Lc3pah0524.met	0608lc3.010
71052	Lc3pah0524.met	0608lc3.011
71053	Lc3pah0524.met	0608lc3.012
1.0 ppm (5-w-sn-168-3)	Lc3pah0524.met	0608lc3.013
71054	Lc3pah0524.met	0608lc3.014
71055	Lc3pah0524.met	0608lc3.015
71056	Lc3pah0524.met	0608lc3.016
71057	Lc3pah0524.met	0608lc3.017
71058	Lc3pah0524.met	0608lc3.018
71059	Lc3pah0524.met	0608lc3.019
71060	Lc3pah0524.met	0608lc3.020
71061	Lc3pah0524.met	0608lc3.021
71062	Lc3pah0524.met	0608lc3.022
71062	Lc3pah0524.met	0608lc3.023
1.0 ppm (5-w-sn-168-3)	Lc3pah0524.met	0608lc3.024

TestAmerica
INCORPORATED

PH by SW846/9040/150.1

SUMMARY DATA

TESTAMERICA, INC
2960 FOSTER CREIGHTON DRIVE
NASHVILLE, TN 37204
1-800-765-0980

Worklist: 9619 Worklist format: ph
Created on: 5/26/01 by: M.McBride

	Log number	Due Date	Due Time	Target Date	Project
1.	01-A71048	6/ 9/01		6/ 9/01	239033
2.	01-A71049	6/ 9/01		6/ 9/01	239033
3.	01-A71050	6/ 9/01		6/ 9/01	239033
4.	01-A71051	6/ 9/01		6/ 9/01	239033
5.	01-A71052	6/ 9/01		6/ 9/01	239033
6.	01-A71053	6/ 9/01		6/ 9/01	239033
7.	01-A71054	6/ 9/01		6/ 9/01	239033
8.	01-A71055	6/ 9/01		6/ 9/01	239033
9.	01-A71056	6/ 9/01		6/ 9/01	239033
10.	01-A71057	6/ 9/01		6/ 9/01	239033
11.	Duplicate				

PAH
prep

SW-846 DOC

BY: JC

JC

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pH

Analyst: M.McBride

Analysis Date:

Worklist No.: 9619

Date Created: 5/26/01

Pos	Sample	Date	Time		pH	Soil Type
1.	01-A71048	5/31/01	10:17	liquid	6.4	
				solid	Not Requested	
2.	01-A71049	5/31/01	10:17	liquid	6.5	
				solid	Not Requested	
3.	01-A71050	5/31/01	10:20	liquid	6.1	
				solid	Not Requested	
4.	01-A71051			liquid		
				solid	Not Requested	

pH

Analyst: M.McBride

Analysis Date:

Worklist No.: 9619

Date Created: 5/26/01

Pos	Sample	Date	Time		pH	Soil Type
5.	01-A71052	5/31/01 KBS 5/31/01	~~10:20~~ 10:20	liquid solid	7.2 Not Requested	

Pos	Sample	Date	Time		pH	Soil Type
6.	01-A71053	5/31/01	10:23	liquid solid	3.1 Not Requested	

Pos	Sample	Date	Time		pH	Soil Type
7.	01-A71054	5/31/01	10:23	liquid solid	6.4 Not Requested	

Pos	Sample	Date	Time		pH	Soil Type
8.	01-A71055	5/31/01	10:32	liquid solid	6.0 Not Requested	

pH

Analyst: M.McBride

Analysis Date:

Worklist No.: 9619

Date Created: 5/26/01

Pos	Sample	Date	Time		pH	Soil Type
9.	01-A71056	5/31/01	10:32	liquid	5.8	
				solid	Not Requested	

Pos	Sample	Date	Time		pH	Soil Type
10.	01-A71057	5/31/01	10:35	liquid	4.1	
				solid	Not Requested	

11. Duplicate Original: 10

liquid 4.1 Diff: _____

RD : _____

KB

TestAmerica
ashville Division

Method CWA 150.1, SW-846 9040B

Daily pH Meter Run Log - Water

Date: 5/31/01

pH Meter A

Buffers	pH	
1-4	1.00	
4-23	4.00	
7-25	7.00	12-2=12.56
10-15	10.00	
ICV 7-13	7.00	

Run #	Sample ID	pH	Temp.
1	67943	6.7	21
2	69682	6.2	21
Duplicate	69682	6.2	21
3	71058	6.5	21
4	71060	6.5	21
5	71048	6.4	21
6	71050	6.1	21
7	71053	3.1	21
8	71055	6.0	21
9	71057	4.1	21
Duplicate	71057	4.1	21
10	70831	6.6	21
ICV	7-13	7.00	21
1	70833	7.0	21
2	70835	6.3	21
3	70837	8.2	21
4	70839	6.7	21
5	70841	7.3	21
6	70843	7.7	21
Duplicate	70843	7.7	21
7	71419	6.1	21
ICV	7-13	7.0	21
ICV	7-13	7.0	21

pH Meter B

Buffers	pH	
1-4	1.00	
4-23	4.00	
7-25	7.00	12-2=12.56
10-15	10.00	
ICV 7-13	7.00	

Run #	Sample ID	pH	Temp.
1	67944	7.1	21
Duplicate	67944	7.1	21
2	69684	6.5	21
3	71059	6.2	21
4	71061	2.9	21
5	71062	7.2	21
Duplicate	71062	7.2	21
6	71049	6.5	21
7	71052	7.2	21
8	71054	6.4	21
9	71056	5.8	21
10	70832	6.6	21
ICV	7.13	7.00	21
1	70834	6.8	21
2	70836	6.9	21
3	70838	9.4	21
4	70840	7.4	21
Duplicate	70840	7.4	21
5	70842	6.3	21
6	71402	6.7	21
7	71455	4.6	21
Duplicate	71455	4.6	21
8	71401	1.4	21
ICV	7-13	7.0	21
ICV	7-13	7.0	21

PH by SW846/9040/150.1

SUMMARY DATA

TESTAMERICA, INC
2960 FOSTER CREIGHTON DRIVE
NASHVILLE, TN 37204
1-800-765-0980

Worklist: 9620 Worklist format: on
Created on: 5/26/01 by: M.McBride

	Log number	Due Date	Due Time	Target Date	Project
1.	01-A71058	6/ 9/01		6/ 9/01	239033
2.	01-A71059	6/ 9/01		6/ 9/01	239033
3.	01-A71060	6/ 9/01		6/ 9/01	239033
4.	01-A71061	6/ 9/01		6/ 9/01	239033
5.	01-A71062	6/ 9/01		6/ 9/01	239033
6.	Duplicate				

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SW-846 DOC

[illegible]ED BY: JC

[illegible] BY: JC

[illegible]: ?

[illegible]L ?

pH

Analyst: M.McBride

Analysis Date:

Worklist No.: 9620

Date Created: 5/26/01

Pos	Sample	Date	Time		pH	Soil Type
1.	Ø1-A71Ø58	5/31/01	10:07	liquid solid	6.5 Not Requested	

Pos	Sample	Date	Time		pH	Soil Type
2.	Ø1-A71Ø59	5/31/01	10:07	liquid solid	6.2 Not Requested	

Pos	Sample	Date	Time		pH	Soil Type
3.	Ø1-A71Ø6Ø	5/31/01	10:10	liquid solid	6.5 Not Requested	

Pos	Sample	Date	Time		pH	Soil Type
4.	Ø1-A71Ø61	5/31/01	10:10	liquid solid	2.9 Not Requested	

pH

Analyst: M.McBride

Analysis Date:

Worklist No.: 9620

Date Created: 5/26/01

Pos	Sample	Date	Time	pH	Soil Type
5.	01-A71062	5/31/01	10:12		
			liquid	7.2	
			solid	Not Requested	

6. Duplicate Original: 5

liquid 7.2 Diff: _____

RD : _____

KB

TestAmerica
ashville Division

Method CWA 150.1, SW-846 9040B

Daily pH Meter Run Log - Water

Date: 5/31/01

pH Meter A

Buffers	pH
1-4	1.00
4-23	4.00
7-25	7.00
10-15	10.00
ICV 7-13	7.00

12-2=12.56

Run #	Sample ID	pH	Temp.
1	67943	6.7	21
2	69682	6.2	21
Duplicate	69682	6.2	21
3	71058	6.5	21
4	71060	6.5	21
5	71048	6.4	21
6	71050	6.1	21
7	71053	3.1	21
8	71055	6.0	21
9	71057	4.1	21
Duplicate	71057	4.1	21
10	70831	6.6	21
ICV	7-13	7.00	21
1	70833	7.0	21
2	70835	6.3	21
3	70837	8.2	21
4	70839	6.7	21
5	70841	7.3	21
6	70843	7.7	21
Duplicate	70843	7.7	21
7	71419	6.1	21
ICV	7-13	7.0	21
ICV	7-13	7.0	21

pH Meter B

Buffers	pH
1-4	1.00
4-23	4.00
7-25	7.00
10-15	10.00
ICV 7-13	7.00

12-2=12.56

Run #	Sample ID	pH	Temp.
1	67944	7.1	21
Duplicate	67944	7.1	21
2	69684	6.5	21
3	71059	6.2	21
4	71061	2.9	21
5	71062	7.2	21
Duplicate	71062	7.2	21
6	71049	6.5	21
7	71052	7.2	21
8	71054	6.4	21
9	71056	5.8	21
10	70832	6.6	21
ICV	7.13	7.00	21
1	70834	6.8	21
2	70836	6.9	21
3	70838	9.4	21
4	70840	7.4	21
Duplicate	70840	7.4	21
5	70842	6.3	21
6	71402	6.7	21
7	71455	4.6	21
Duplicate	71455	4.6	21
8	71401	1.4	21
ICV	7-13	7.0	21
ICV	7-13	7.0	21