H6D030205 Analytical Report 1

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ANALYTICAL REPORT

PROJECT NO. 142541

Focus/US Filter Westates 8260B

Lot #: H6D030205

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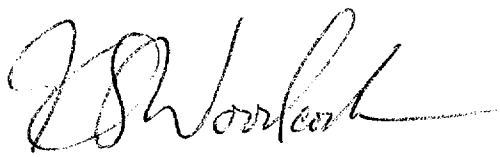
SEVERN TRENT LABORATORIES, INC.



Kevin S. Woodcock
Project Manager

April 21, 2006

ANALYTICAL METHODS SUMMARY

H6D030205

PARAMETER	ANALYTICAL METHOD
Volatile Organics by GC/MS	SW846 8260B

References:

SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 and its updates.

SAMPLE SUMMARY

H6D030205

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
H2HN3	001	G-2889-R1-SPENT ACTIVATED CARBON	03/28/06	
H2HPA	002	G-2893-R1-SCRUBBER BLOWDOWN	03/28/06	
H2HPW	003	G-2897-R1-POTW DISCHARGE	03/28/06	
H2HP3	004	G-2901-R1-CAUSTIC FEED	03/28/06	
H2HQD	005	G-2905-R1-MAKE-UP WATER	03/28/06	
H2HQR	006	G-2987-R2-SPENT ACTIVATED CARBON	03/29/06	
H2HQT	007	G-2991-R2-SCRUBBER BLOWDOWN	03/29/06	
H2HQW	008	G-2995-R2-POTW DISCHARGE	03/29/06	
H2HQ0	009	G-3003-R2-MAKE-UP WATER	03/29/06	
H2HQ4	010	G-3070-R3-SPENT ACTIVATED CARBON	03/30/06	
H2HRA	011	G-3074-R3-SCRUBBER BLOWDOWN	03/30/06	
H2HRF	012	G-3078-R3-POTW DISCHARGE	03/30/06	
H2HRH	013	G-3086-R3-MAKE-UP WATER	03/30/06	

NOTE(S):

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

PROJECT NARRATIVE
H6D030205

The results reported herein are applicable to the samples submitted for analysis only.

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The original chain of custody documentation is included with this report.

Sample Receipt

Custody seals were not present upon sample receipt at STL Knoxville; however, the samples were hand delivered.

The "Relinquished by" field on the chain of custody documentation did not contain a signature.

The container label for sample G-2886 did not match the associated chain of custody documentation. The laboratory processed the sample using the information on the container label.

Quality Control

Unless otherwise noted, all holding times and QC criteria were met and the test results shown in this report meet all applicable NELAC requirements.

Waste Sample Preparation and Analysis

Waste samples were analyzed for the volatile organic target analytes by purge and trap GCMS using STL Knoxville standard operating procedure KNOX-MS-0015, based on the following method:

- SW-846 8260B, "Volatile Organic Compounds by Gas Chromatography/ Mass Spectrometry (GC/MS)"

Each sample is prepared by adding a known amount of sample to methanol and spiking with surrogates and matrix spike analytes (as needed). Volatile compounds are

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PROJECT NARRATIVE
H6D030205

introduced into the gas chromatograph by the purge and trap method. The components are separated using the chromatograph and detected using a mass spectrometer, which provides both qualitative and quantitative information.

Waste sample results were calculated using the following equation:

$$\text{Concentration, } \mu\text{g/g or mg/kg} = \frac{C \cdot DF \cdot Wd \cdot V_t}{V_a \cdot Ws}$$

Where:

C	= On column concentration, ug/L
DF	= Dilution factor
Wd	= Volume of water purged, L
Vt	= Final methanol extract volume, uL
Va	= Volume of extract analyzed, µL
Ws	= Weight of sample extracted, g

Neutralization of Westates CPT Caustic Solution Samples

There was one original grab sample only, and compositing was not required. Using a graduated pipette, 50 mL of the sample was transferred to a clean 250 mL volumetric flask. The flask and its contents were chilled in an ice bath. When all solutions were chilled to ice temperature, approximately 110 mL of cold HCl (CON) were added to the solution. There was some slight warming of the solution, but the neck of the volumetric remained cool, condensing vapors that were formed. The resulting pH was approximately 1. The diluted, neutralized samples were transferred into five pre-labeled vials.

The sample prepared is identified by copies of the label below:

H2HP3 H6D030205-004
Composite Sample, Neutralized with HCl
50 mL Original Sample to 250 mL Final Volume

The pH of many samples was greater than 2. The samples were analyzed within the normal 14 day holding time. EPA has indicated that some aromatic compounds in

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PROJECT NARRATIVE
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wastewater samples, notably benzene, toluene, and ethyl benzene, may be susceptible to biological degradation if samples are not preserved to a pH of 2.

Surrogate recoveries for samples G-2889-R1-Spent Activated Carbon, G-2987-R2-Spent Activated Carbon and G-3070-R3-Spent Activated Carbon were outside QC limits. Since the matrix spike/matrix spike duplicate for this sample demonstrated similar surrogate recoveries and the matrix was the same for each sample analysis, the results are attributed to sample matrix effects.

Surrogate recoveries for sample G-2901-R1-Caustic Feed were outside QC limits. Since the matrix spike/matrix spike duplicate for this sample demonstrated similar surrogate recoveries, the results are attributed to sample matrix effects.

Samples G-2889-R1-Spent Activated Carbon, G-2987-R2- Spent Activated Carbon and G-3070-R3- Spent Activated Carbon were reported with elevated reporting limits for all analytes. Based on screening results, a dilution was necessary prior to analysis; the reporting limits were adjusted accordingly.

The matrix spike/matrix spike duplicate recoveries and RPD results for sample H2HN31AC/1AD were not acceptable for most analytes. The laboratory control sample showed acceptable results indicating that the analysis was in control. The matrix spike/matrix spike duplicate results are attributed to matrix effects and high analyte concentrations in the sample relative to the spike level.

The matrix spike/matrix spike duplicate recoveries for samples H2HPA1AC/1AD and H2HP31AC/1AD were not acceptable for several analytes. The laboratory control sample showed acceptable results indicating that the analysis was in control. The matrix spike/matrix spike duplicate results are attributed to matrix effects.

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Sample Data Summary

STL Knoxville - ACS

Client Sample ID: G-2889-R1-SPENT ACTIVATED CARBON

GC/MS Volatiles

Lot-Sample #...: H6D030205-001 **Work Order #...:** H2HN31AA **Matrix.....:** SOLID
Date Sampled...: 03/28/06 **Date Received..:** 04/02/06
Prep Date.....: 04/04/06 **Analysis Date..:** 04/04/06
Prep Batch #...: 6094386
Dilution Factor: 5 **Method.....:** SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	**3500 J,B**	**5000**	**ug/kg**	**1200**
Acrylonitrile	ND	25000	ug/kg	3800
Benzene	**3800**	**1200**	**ug/kg**	**140**
Bromobenzene	ND	1200	ug/kg	260
Bromochloromethane	ND	1200	ug/kg	170
Bromodichloromethane	ND	1200	ug/kg	120
Bromoform	ND	1200	ug/kg	210
Bromomethane	**740 J,B**	**2500**	**ug/kg**	**700**
2-Butanone	**14000**	**5000**	**ug/kg**	**1000**
n-Butylbenzene	ND	1200	ug/kg	380
sec-Butylbenzene	ND	1200	ug/kg	380
tert-Butylbenzene	ND	1200	ug/kg	340
Carbon disulfide	ND	1200	ug/kg	150
Carbon tetrachloride	ND	1200	ug/kg	120
Chlorobenzene	ND	1200	ug/kg	130
Chlorodibromomethane	ND	1200	ug/kg	120
Chloroethane	ND	2500	ug/kg	280
Chloroform	**1900**	**1200**	**ug/kg**	**120**
Chloromethane	ND	2500	ug/kg	1000
2-Chlorotoluene	ND	1200	ug/kg	300
4-Chlorotoluene	ND	1200	ug/kg	300
1,2-Dibromo-3-chloro-propane	ND	2500	ug/kg	140
1,2-Dibromoethane	ND	1200	ug/kg	180
Dibromomethane	ND	1200	ug/kg	120
1,2-Dichlorobenzene	ND	1200	ug/kg	320
1,3-Dichlorobenzene	ND	1200	ug/kg	330
1,4-Dichlorobenzene	ND	1200	ug/kg	330
Dichlorodifluoromethane	ND	2500	ug/kg	160
1,1-Dichloroethane	**150 J**	**1200**	**ug/kg**	**120**
1,2-Dichloroethane	**600 J**	**1200**	**ug/kg**	**140**
cis-1,2-Dichloroethene	**320 J**	**1200**	**ug/kg**	**120**
trans-1,2-Dichloroethene	ND	1200	ug/kg	190
1,1-Dichloroethene	**500 J**	**1200**	**ug/kg**	**240**
1,2-Dichloropropane	ND	1200	ug/kg	180
1,3-Dichloropropane	ND	1200	ug/kg	220
2,2-Dichloropropane	ND	1200	ug/kg	120
cis-1,3-Dichloropropene	ND	1200	ug/kg	120
trans-1,3-Dichloropropene	ND	1200	ug/kg	150

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STL Knoxville - ACS

Client Sample ID: G-2889-R1-SPENT ACTIVATED CARBON

GC/MS Volatiles

Lot-Sample #...: H6D030205-001 **Work Order #...:** H2HN31AA **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1-Dichloropropene	ND	1200	ug/kg	120
Ethylbenzene	ND	1200	ug/kg	240
Hexachlorobutadiene	ND	1200	ug/kg	550
2-Hexanone	ND	5000	ug/kg	800
Iodomethane	**550 J,B**	**2500**	**ug/kg**	**490**
Isopropylbenzene	ND	1200	ug/kg	280
p-Isopropyltoluene	ND	1200	ug/kg	420
Methylene chloride	ND	1200	ug/kg	420
4-Methyl-2-pentanone	ND	5000	ug/kg	800
Naphthalene	ND	1200	ug/kg	240
n-Propylbenzene	ND	1200	ug/kg	360
Styrene	ND	1200	ug/kg	240
1,1,1,2-Tetrachloroethane	ND	1200	ug/kg	160
1,1,2,2-Tetrachloroethane	ND	1200	ug/kg	210
Tetrachloroethene	**1600**	**1200**	**ug/kg**	**210**
Tetrahydrofuran	**2700 J**	**5000**	**ug/kg**	**1000**
Toluene	**320 J**	**1200**	**ug/kg**	**180**
1,2,3-Trichlorobenzene	ND	1200	ug/kg	360
1,2,4-Trichloro-benzene	ND	1200	ug/kg	340
1,1,1-Trichloroethane	**5600**	**1200**	**ug/kg**	**120**
1,1,2-Trichloroethane	ND	1200	ug/kg	180
Trichloroethene	**43000**	**1200**	**ug/kg**	**140**
Trichlorofluoromethane	ND	2500	ug/kg	320
1,2,3-Trichloropropane	ND	1200	ug/kg	270
1,1,2-Trichloro-1,2,2-trifluoroethane	**1700**	**1200**	**ug/kg**	**200**
1,2,4-Trimethylbenzene	ND	1200	ug/kg	320
1,3,5-Trimethylbenzene	ND	1200	ug/kg	310
Vinyl acetate	ND	2500	ug/kg	600
Vinyl chloride	ND	1200	ug/kg	140
m-Xylene & p-Xylene	ND	1200	ug/kg	480
o-Xylene	ND	1200	ug/kg	210
Xylenes (total)	ND	1200	ug/kg	700

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	12 *	(42 - 138)
1,2-Dichloroethane-d4	11 *	(38 - 144)
Toluene-d8	0.99 *	(52 - 137)
Bromofluorobenzene	4.6 *	(54 - 151)

NOTE(S):

* Surrogate recovery is outside stated control limits.

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

STL Knoxville - ACS

G-2889-R1-SPENT ACTIVATED CARBON

GC/MS Volatiles

Lot-Sample #: H6D030205-001 **Work Order #:** H2HN31AA **Matrix:** SOLID

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT		RETENTION TIME	UNITS
Propene	115-07-1	1300 NJ	M	0.8469	ug/kg
Isobutane	75-28-5	18000 NJ	M	0.9817	ug/kg
Unknown		3800 NJ	M	1.094	ug/kg
Unknown		1700 NJ	M	2.6054	ug/kg
Cyclopentane, methyl-	96-37-7	1500 NJ	M	3.3113	ug/kg
Cyclohexane	110-82-7	1600 NJ	M	3.8344	ug/kg

NOTE(S):

M: Result was measured against nearest internal standard assuming a response factor of 1.

STL Knoxville - ACS

Client Sample ID: G-2893-R1-SCRUBBER BLOWDOWN

GC/MS Volatiles

Lot-Sample #...: H6D030205-002 **Work Order #...:** H2HPA1AA **Matrix.....:** WATER
Date Sampled...: 03/28/06 **Date Received..:** 04/02/06
Prep Date.....: 04/05/06 **Analysis Date..:** 04/05/06
Prep Batch #...: 6095253
Dilution Factor: 1 **Method.....:** SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	ND	10	ug/L	1.4
Acrylonitrile	ND	20	ug/L	2.7
Benzene	ND	1.0	ug/L	0.10
Bromobenzene	ND	1.0	ug/L	0.11
Bromochloromethane	ND	1.0	ug/L	0.24
Bromodichloromethane	ND	1.0	ug/L	0.10
Bromoform	**0.99 J**	**1.0**	**ug/L**	**0.14**
Bromomethane	ND	2.0	ug/L	0.38
2-Butanone	ND	5.0	ug/L	0.75
n-Butylbenzene	ND	1.0	ug/L	0.10
sec-Butylbenzene	ND	1.0	ug/L	0.10
tert-Butylbenzene	ND	1.0	ug/L	0.24
Carbon disulfide	ND	1.0	ug/L	0.10
Carbon tetrachloride	ND	1.0	ug/L	0.12
Chlorobenzene	ND	1.0	ug/L	0.10
Chlorodibromomethane	**0.92 J**	**1.0**	**ug/L**	**0.20**
Chloroethane	ND	2.0	ug/L	0.24
Chloroform	ND	1.0	ug/L	0.10
Chloromethane	ND	2.0	ug/L	0.12
2-Chlorotoluene	ND	1.0	ug/L	0.24
4-Chlorotoluene	ND	1.0	ug/L	0.21
1,2-Dibromo-3-chloro-propane	ND	2.0	ug/L	0.45
1,2-Dibromoethane	ND	1.0	ug/L	0.24
Dibromomethane	ND	1.0	ug/L	0.21
1,2-Dichlorobenzene	ND	1.0	ug/L	0.10
1,3-Dichlorobenzene	ND	1.0	ug/L	0.10
1,4-Dichlorobenzene	ND	1.0	ug/L	0.12
Dichlorodifluoromethane	ND	2.0	ug/L	0.15
1,1-Dichloroethane	ND	1.0	ug/L	0.10
1,2-Dichloroethane	ND	1.0	ug/L	0.10
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.12
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.10
1,1-Dichloroethene	ND	1.0	ug/L	0.10
1,2-Dichloropropane	ND	1.0	ug/L	0.10
1,3-Dichloropropane	ND	1.0	ug/L	0.17
2,2-Dichloropropane	ND	1.0	ug/L	0.11
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.10
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.11

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STL Knoxville - ACS

Client Sample ID: G-2893-R1-SCRUBBER BLOWDOWN

GC/MS Volatiles

Lot-Sample #...: H6D030205-002 **Work Order #...:** H2HPA1AA **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1-Dichloropropene	ND	1.0	ug/L	0.10
Ethylbenzene	ND	1.0	ug/L	0.10
Hexachlorobutadiene	ND	2.0	ug/L	0.12
2-Hexanone	ND	5.0	ug/L	0.76
Iodomethane	**0.55 J,B**	**2.0**	**ug/L**	**0.12**
Isopropylbenzene	ND	1.0	ug/L	0.10
p-Isopropyltoluene	ND	1.0	ug/L	0.10
Methylene chloride	ND	2.0	ug/L	0.23
4-Methyl-2-pentanone	ND	5.0	ug/L	0.40
Naphthalene	ND	1.0	ug/L	0.17
n-Propylbenzene	ND	1.0	ug/L	0.10
Styrene	ND	1.0	ug/L	0.10
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	0.12
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.15
Tetrachloroethene	ND	1.0	ug/L	0.10
Tetrahydrofuran	ND	4.0	ug/L	1.2
Toluene	ND	1.0	ug/L	0.10
1,2,3-Trichlorobenzene	ND	1.0	ug/L	0.23
1,2,4-Trichloro-benzene	ND	1.0	ug/L	0.15
1,1,1-Trichloroethane	ND	1.0	ug/L	0.10
1,1,2-Trichloroethane	ND	1.0	ug/L	0.25
Trichloroethene	ND	1.0	ug/L	0.10
Trichlorofluoromethane	ND	2.0	ug/L	0.12
1,2,3-Trichloropropane	ND	1.0	ug/L	0.36
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	1.0	ug/L	0.13
1,2,4-Trimethylbenzene	ND	1.0	ug/L	0.11
1,3,5-Trimethylbenzene	ND	1.0	ug/L	0.10
Vinyl acetate	ND	2.0	ug/L	0.24
Vinyl chloride	ND	1.0	ug/L	0.24
m-Xylene & p-Xylene	ND	1.0	ug/L	0.20
o-Xylene	ND	1.0	ug/L	0.14
Xylenes (total)	ND	1.0	ug/L	0.30

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	104	(79 - 120)
1,2-Dichloroethane-d4	103	(71 - 127)
Toluene-d8	100	(80 - 120)
Bromofluorobenzene	96	(69 - 126)

NOTE(S):

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

STL Knoxville - ACS

G-2893-R1-SCRUBBER BLOWDOWN

GC/MS Volatiles

Lot-Sample #: H6D030205-002 **Work Order #:** H2HPA1AA **Matrix:** WATER

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT	RETENTION TIME	UNITS
None				ug/L

STL Knoxville - ACS

Client Sample ID: G-2897-R1-POTW DISCHARGE

GC/MS Volatiles

Lot-Sample #...: H6D030205-003 **Work Order #...:** H2HPW1AA **Matrix.....:** WATER
Date Sampled...: 03/28/06 **Date Received..:** 04/02/06
Prep Date.....: 04/06/06 **Analysis Date..:** 04/06/06
Prep Batch #...: 6096330
Dilution Factor: 1 **Method.....:** SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	**3.7 J**	**10**	**ug/L**	**1.4**
Acrylonitrile	ND	20	ug/L	2.7
Benzene	ND	1.0	ug/L	0.10
Bromobenzene	ND	1.0	ug/L	0.11
Bromochloromethane	ND	1.0	ug/L	0.24
Bromodichloromethane	ND	1.0	ug/L	0.10
Bromoform	**2.0**	**1.0**	**ug/L**	**0.14**
Bromomethane	ND	2.0	ug/L	0.38
2-Butanone	ND	5.0	ug/L	0.75
n-Butylbenzene	ND	1.0	ug/L	0.10
sec-Butylbenzene	ND	1.0	ug/L	0.10
tert-Butylbenzene	ND	1.0	ug/L	0.24
Carbon disulfide	ND	1.0	ug/L	0.10
Carbon tetrachloride	ND	1.0	ug/L	0.12
Chlorobenzene	ND	1.0	ug/L	0.10
Chlorodibromomethane	**1.4**	**1.0**	**ug/L**	**0.20**
Chloroethane	ND	2.0	ug/L	0.24
Chloroform	**0.14 J**	**1.0**	**ug/L**	**0.10**
Chloromethane	ND	2.0	ug/L	0.12
2-Chlorotoluene	ND	1.0	ug/L	0.24
4-Chlorotoluene	ND	1.0	ug/L	0.21
1,2-Dibromo-3-chloro-propane	ND	2.0	ug/L	0.45
1,2-Dibromoethane	ND	1.0	ug/L	0.24
Dibromomethane	ND	1.0	ug/L	0.21
1,2-Dichlorobenzene	ND	1.0	ug/L	0.10
1,3-Dichlorobenzene	ND	1.0	ug/L	0.10
1,4-Dichlorobenzene	ND	1.0	ug/L	0.12
Dichlorodifluoromethane	ND	2.0	ug/L	0.15
1,1-Dichloroethane	ND	1.0	ug/L	0.10
1,2-Dichloroethane	ND	1.0	ug/L	0.10
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.12
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.10
1,1-Dichloroethene	ND	1.0	ug/L	0.10
1,2-Dichloropropane	ND	1.0	ug/L	0.10
1,3-Dichloropropane	ND	1.0	ug/L	0.17
2,2-Dichloropropane	ND	1.0	ug/L	0.11
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.10
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.11

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STL Knoxville - ACS

Client Sample ID: G-2897-R1-POTW DISCHARGE

GC/MS Volatiles

Lot-Sample #...: H6D030205-003 **Work Order #...:** H2HPW1AA **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1-Dichloropropene	ND	1.0	ug/L	0.10
Ethylbenzene	ND	1.0	ug/L	0.10
Hexachlorobutadiene	ND	2.0	ug/L	0.12
2-Hexanone	ND	5.0	ug/L	0.76
Iodomethane	ND	2.0	ug/L	0.12
Isopropylbenzene	ND	1.0	ug/L	0.10
p-Isopropyltoluene	ND	1.0	ug/L	0.10
Methylene chloride	**0.35 J**	**2.0**	**ug/L**	**0.23**
4-Methyl-2-pentanone	ND	5.0	ug/L	0.40
Naphthalene	ND	1.0	ug/L	0.17
n-Propylbenzene	ND	1.0	ug/L	0.10
Styrene	ND	1.0	ug/L	0.10
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	0.12
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.15
Tetrachloroethene	**0.13 J**	**1.0**	**ug/L**	**0.10**
Tetrahydrofuran	ND	4.0	ug/L	1.2
Toluene	ND	1.0	ug/L	0.10
1,2,3-Trichlorobenzene	ND	1.0	ug/L	0.23
1,2,4-Trichloro-benzene	ND	1.0	ug/L	0.15
1,1,1-Trichloroethane	ND	1.0	ug/L	0.10
1,1,2-Trichloroethane	ND	1.0	ug/L	0.25
Trichloroethene	ND	1.0	ug/L	0.10
Trichlorofluoromethane	ND	2.0	ug/L	0.12
1,2,3-Trichloropropane	ND	1.0	ug/L	0.36
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	1.0	ug/L	0.13
1,2,4-Trimethylbenzene	ND	1.0	ug/L	0.11
1,3,5-Trimethylbenzene	ND	1.0	ug/L	0.10
Vinyl acetate	ND	2.0	ug/L	0.24
Vinyl chloride	ND	1.0	ug/L	0.24
m-Xylene & p-Xylene	ND	1.0	ug/L	0.20
o-Xylene	ND	1.0	ug/L	0.14
Xylenes (total)	ND	1.0	ug/L	0.30

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	105	(79 - 120)
1,2-Dichloroethane-d4	103	(71 - 127)
Toluene-d8	98	(80 - 120)
Bromofluorobenzene	89	(69 - 126)

NOTE(S):

J Estimated result. Result is less than RL.

STL Knoxville - ACS

G-2897-R1-POTW DISCHARGE

GC/MS Volatiles

Lot-Sample #: H6D030205-003 **Work Order #:** H2HPW1AA **Matrix:** WATER

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT	RETENTION TIME	UNITS
None				ug/L

STL Knoxville - ACS

Client Sample ID: G-2901-R1-CAUSTIC FEED

GC/MS Volatiles

Lot-Sample #...: H6D030205-004 **Work Order #...:** H2HP31AA **Matrix.....:** WATER
Date Sampled...: 03/28/06 **Date Received..:** 04/02/06
Prep Date.....: 04/06/06 **Analysis Date..:** 04/06/06
Prep Batch #...: 6096330
Dilution Factor: 1 **Method.....:** SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	**4.5 J**	**10**	**ug/L**	**1.4**
Acrylonitrile	ND	20	ug/L	2.7
Benzene	ND	1.0	ug/L	0.10
Bromobenzene	**0.18 J**	**1.0**	**ug/L**	**0.11**
Bromochloromethane	ND	1.0	ug/L	0.24
Bromodichloromethane	**0.86 J**	**1.0**	**ug/L**	**0.10**
Bromoform	**2.8**	**1.0**	**ug/L**	**0.14**
Bromomethane	ND	2.0	ug/L	0.38
2-Butanone	ND	5.0	ug/L	0.75
n-Butylbenzene	ND	1.0	ug/L	0.10
sec-Butylbenzene	ND	1.0	ug/L	0.10
tert-Butylbenzene	ND	1.0	ug/L	0.24
Carbon disulfide	ND	1.0	ug/L	0.10
Carbon tetrachloride	ND	1.0	ug/L	0.12
Chlorobenzene	ND	1.0	ug/L	0.10
Chlorodibromomethane	**1.0**	**1.0**	**ug/L**	**0.20**
Chloroethane	ND	2.0	ug/L	0.24
Chloroform	**0.17 J**	**1.0**	**ug/L**	**0.10**
Chloromethane	ND	2.0	ug/L	0.12
2-Chlorotoluene	ND	1.0	ug/L	0.24
4-Chlorotoluene	ND	1.0	ug/L	0.21
1,2-Dibromo-3-chloro-propane	ND	2.0	ug/L	0.45
1,2-Dibromoethane	ND	1.0	ug/L	0.24
Dibromomethane	ND	1.0	ug/L	0.21
1,2-Dichlorobenzene	ND	1.0	ug/L	0.10
1,3-Dichlorobenzene	ND	1.0	ug/L	0.10
1,4-Dichlorobenzene	ND	1.0	ug/L	0.12
Dichlorodifluoromethane	ND	2.0	ug/L	0.15
1,1-Dichloroethane	ND	1.0	ug/L	0.10
1,2-Dichloroethane	**0.13 J**	**1.0**	**ug/L**	**0.10**
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.12
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.10
1,1-Dichloroethene	ND	1.0	ug/L	0.10
1,2-Dichloropropane	ND	1.0	ug/L	0.10
1,3-Dichloropropane	ND	1.0	ug/L	0.17
2,2-Dichloropropane	ND	1.0	ug/L	0.11
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.10
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.11

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STL Knoxville - ACS

Client Sample ID: G-2901-R1-CAUSTIC FEED

GC/MS Volatiles

Lot-Sample #...: H6D030205-004 **Work Order #...:** H2HP31AA **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1-Dichloropropene	ND	1.0	ug/L	0.10
Ethylbenzene	ND	1.0	ug/L	0.10
Hexachlorobutadiene	ND	2.0	ug/L	0.12
2-Hexanone	ND	5.0	ug/L	0.76
Iodomethane	ND	2.0	ug/L	0.12
Isopropylbenzene	ND	1.0	ug/L	0.10
p-Isopropyltoluene	ND	1.0	ug/L	0.10
Methylene chloride	**0.53 J**	**2.0**	**ug/L**	**0.23**
4-Methyl-2-pentanone	ND	5.0	ug/L	0.40
Naphthalene	ND	1.0	ug/L	0.17
n-Propylbenzene	ND	1.0	ug/L	0.10
Styrene	ND	1.0	ug/L	0.10
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	0.12
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.15
Tetrachloroethene	ND	1.0	ug/L	0.10
Tetrahydrofuran	ND	4.0	ug/L	1.2
Toluene	ND	1.0	ug/L	0.10
1,2,3-Trichlorobenzene	ND	1.0	ug/L	0.23
1,2,4-Trichloro-benzene	ND	1.0	ug/L	0.15
1,1,1-Trichloroethane	ND	1.0	ug/L	0.10
1,1,2-Trichloroethane	ND	1.0	ug/L	0.25
Trichloroethene	**0.24 J**	**1.0**	**ug/L**	**0.10**
Trichlorofluoromethane	ND	2.0	ug/L	0.12
1,2,3-Trichloropropane	ND	1.0	ug/L	0.36
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	1.0	ug/L	0.13
1,2,4-Trimethylbenzene	ND	1.0	ug/L	0.11
1,3,5-Trimethylbenzene	ND	1.0	ug/L	0.10
Vinyl acetate	ND	2.0	ug/L	0.24
Vinyl chloride	ND	1.0	ug/L	0.24
m-Xylene & p-Xylene	ND	1.0	ug/L	0.20
o-Xylene	ND	1.0	ug/L	0.14
Xylenes (total)	ND	1.0	ug/L	0.30

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	136 *	(79 - 120)
1,2-Dichloroethane-d4	182 *	(71 - 127)
Toluene-d8	77 *	(80 - 120)
Bromofluorobenzene	92	(69 - 126)

NOTE(S):

* Surrogate recovery is outside stated control limits.

J Estimated result. Result is less than RL.

STL Knoxville - ACS

G-2901-R1-CAUSTIC FEED

GC/MS Volatiles

Lot-Sample #: H6D030205-004 **Work Order #:** H2HP31AA **Matrix:** WATER

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT	RETENTION TIME	UNITS
None				ug/L

STL Knoxville - ACS

Client Sample ID: G-2905-R1-MAKE-UP WATER

GC/MS Volatiles

Lot-Sample #...: H6D030205-005 **Work Order #...:** H2HQD1AA **Matrix.....:** WATER
Date Sampled...: 03/28/06 **Date Received..:** 04/02/06
Prep Date.....: 04/06/06 **Analysis Date..:** 04/06/06
Prep Batch #...: 6096330
Dilution Factor: 1 **Method.....:** SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	**4.4 J**	**10**	**ug/L**	**1.4**
Acrylonitrile	ND	20	ug/L	2.7
Benzene	ND	1.0	ug/L	0.10
Bromobenzene	ND	1.0	ug/L	0.11
Bromochloromethane	ND	1.0	ug/L	0.24
Bromodichloromethane	**3.2**	**1.0**	**ug/L**	**0.10**
Bromoform	**40**	**1.0**	**ug/L**	**0.14**
Bromomethane	ND	2.0	ug/L	0.38
2-Butanone	ND	5.0	ug/L	0.75
n-Butylbenzene	ND	1.0	ug/L	0.10
sec-Butylbenzene	ND	1.0	ug/L	0.10
tert-Butylbenzene	ND	1.0	ug/L	0.24
Carbon disulfide	ND	1.0	ug/L	0.10
Carbon tetrachloride	ND	1.0	ug/L	0.12
Chlorobenzene	ND	1.0	ug/L	0.10
Chlorodibromomethane	**13**	**1.0**	**ug/L**	**0.20**
Chloroethane	ND	2.0	ug/L	0.24
Chloroform	**0.56 J**	**1.0**	**ug/L**	**0.10**
Chloromethane	ND	2.0	ug/L	0.12
2-Chlorotoluene	ND	1.0	ug/L	0.24
4-Chlorotoluene	ND	1.0	ug/L	0.21
1,2-Dibromo-3-chloro-propane	ND	2.0	ug/L	0.45
1,2-Dibromoethane	ND	1.0	ug/L	0.24
Dibromomethane	ND	1.0	ug/L	0.21
1,2-Dichlorobenzene	ND	1.0	ug/L	0.10
1,3-Dichlorobenzene	ND	1.0	ug/L	0.10
1,4-Dichlorobenzene	ND	1.0	ug/L	0.12
Dichlorodifluoromethane	ND	2.0	ug/L	0.15
1,1-Dichloroethane	ND	1.0	ug/L	0.10
1,2-Dichloroethane	ND	1.0	ug/L	0.10
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.12
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.10
1,1-Dichloroethene	ND	1.0	ug/L	0.10
1,2-Dichloropropane	ND	1.0	ug/L	0.10
1,3-Dichloropropane	ND	1.0	ug/L	0.17
2,2-Dichloropropane	ND	1.0	ug/L	0.11
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.10
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.11

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STL Knoxville - ACS

Client Sample ID: G-2905-R1-MAKE-UP WATER

GC/MS Volatiles

Lot-Sample #...: H6D030205-005 **Work Order #...:** H2HQD1AA **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1-Dichloropropene	ND	1.0	ug/L	0.10
Ethylbenzene	ND	1.0	ug/L	0.10
Hexachlorobutadiene	ND	2.0	ug/L	0.12
2-Hexanone	ND	5.0	ug/L	0.76
Iodomethane	ND	2.0	ug/L	0.12
Isopropylbenzene	ND	1.0	ug/L	0.10
p-Isopropyltoluene	ND	1.0	ug/L	0.10
Methylene chloride	**0.55 J**	**2.0**	**ug/L**	**0.23**
4-Methyl-2-pentanone	ND	5.0	ug/L	0.40
Naphthalene	ND	1.0	ug/L	0.17
n-Propylbenzene	ND	1.0	ug/L	0.10
Styrene	ND	1.0	ug/L	0.10
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	0.12
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.15
Tetrachloroethene	**0.33 J**	**1.0**	**ug/L**	**0.10**
Tetrahydrofuran	ND	4.0	ug/L	1.2
Toluene	ND	1.0	ug/L	0.10
1,2,3-Trichlorobenzene	ND	1.0	ug/L	0.23
1,2,4-Trichloro-benzene	ND	1.0	ug/L	0.15
1,1,1-Trichloroethane	ND	1.0	ug/L	0.10
1,1,2-Trichloroethane	ND	1.0	ug/L	0.25
Trichloroethene	ND	1.0	ug/L	0.10
Trichlorofluoromethane	ND	2.0	ug/L	0.12
1,2,3-Trichloropropane	ND	1.0	ug/L	0.36
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	1.0	ug/L	0.13
1,2,4-Trimethylbenzene	ND	1.0	ug/L	0.11
1,3,5-Trimethylbenzene	ND	1.0	ug/L	0.10
Vinyl acetate	ND	2.0	ug/L	0.24
Vinyl chloride	ND	1.0	ug/L	0.24
m-Xylene & p-Xylene	ND	1.0	ug/L	0.20
o-Xylene	ND	1.0	ug/L	0.14
Xylenes (total)	ND	1.0	ug/L	0.30

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	110	(79 - 120)
1,2-Dichloroethane-d4	111	(71 - 127)
Toluene-d8	102	(80 - 120)
Bromofluorobenzene	92	(69 - 126)

NOTE(S):

J Estimated result. Result is less than RL.

STL Knoxville - ACS

G-2905-R1-MAKE-UP WATER

GC/MS Volatiles

Lot-Sample #: H6D030205-005 **Work Order #:** H2HQD1AA **Matrix:** WATER

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT	RETENTION TIME	UNITS
None				ug/L

STL Knoxville - ACS

Client Sample ID: G-2987-R2-SPENT ACTIVATED CARBON

GC/MS Volatiles

Lot-Sample #...: H6D030205-006 **Work Order #...:** H2HQR1AA **Matrix.....:** SOLID
Date Sampled...: 03/29/06 **Date Received..:** 04/02/06
Prep Date.....: 04/04/06 **Analysis Date..:** 04/04/06
Prep Batch #...: 6094386
Dilution Factor: 5 **Method.....:** SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	**3600 J,B**	**5000**	**ug/kg**	**1200**
Acrylonitrile	ND	25000	ug/kg	3800
Benzene	**1700**	**1200**	**ug/kg**	**140**
Bromobenzene	ND	1200	ug/kg	260
Bromochloromethane	ND	1200	ug/kg	170
Bromodichloromethane	ND	1200	ug/kg	120
Bromoform	ND	1200	ug/kg	210
Bromomethane	**750 J,B**	**2500**	**ug/kg**	**700**
2-Butanone	**3200 J**	**5000**	**ug/kg**	**1000**
n-Butylbenzene	ND	1200	ug/kg	380
sec-Butylbenzene	ND	1200	ug/kg	380
tert-Butylbenzene	ND	1200	ug/kg	340
Carbon disulfide	ND	1200	ug/kg	150
Carbon tetrachloride	ND	1200	ug/kg	120
Chlorobenzene	ND	1200	ug/kg	130
Chlorodibromomethane	ND	1200	ug/kg	120
Chloroethane	ND	2500	ug/kg	280
Chloroform	**1300**	**1200**	**ug/kg**	**120**
Chloromethane	**2300 J**	**2500**	**ug/kg**	**1000**
2-Chlorotoluene	ND	1200	ug/kg	300
4-Chlorotoluene	ND	1200	ug/kg	300
1,2-Dibromo-3-chloro-propane	ND	2500	ug/kg	140
1,2-Dibromoethane	ND	1200	ug/kg	180
Dibromomethane	ND	1200	ug/kg	120
1,2-Dichlorobenzene	ND	1200	ug/kg	320
1,3-Dichlorobenzene	ND	1200	ug/kg	330
1,4-Dichlorobenzene	ND	1200	ug/kg	330
Dichlorodifluoromethane	ND	2500	ug/kg	160
1,1-Dichloroethane	**360 J**	**1200**	**ug/kg**	**120**
1,2-Dichloroethane	**150 J**	**1200**	**ug/kg**	**140**
cis-1,2-Dichloroethene	**170 J**	**1200**	**ug/kg**	**120**
trans-1,2-Dichloroethene	ND	1200	ug/kg	190
1,1-Dichloroethene	**670 J**	**1200**	**ug/kg**	**240**
1,2-Dichloropropane	ND	1200	ug/kg	180
1,3-Dichloropropane	ND	1200	ug/kg	220
2,2-Dichloropropane	ND	1200	ug/kg	120
cis-1,3-Dichloropropene	ND	1200	ug/kg	120
trans-1,3-Dichloropropene	ND	1200	ug/kg	150

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STL Knoxville - ACS

Client Sample ID: G-2987-R2-SPENT ACTIVATED CARBON

GC/MS Volatiles

Lot-Sample #...: H6D030205-006 **Work Order #...:** H2HQR1AA **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1-Dichloropropene	ND	1200	ug/kg	120
Ethylbenzene	ND	1200	ug/kg	240
Hexachlorobutadiene	ND	1200	ug/kg	550
2-Hexanone	ND	5000	ug/kg	800
Iodomethane	ND	2500	ug/kg	490
Isopropylbenzene	ND	1200	ug/kg	280
p-Isopropyltoluene	ND	1200	ug/kg	420
Methylene chloride	ND	1200	ug/kg	420
4-Methyl-2-pentanone	ND	5000	ug/kg	800
Naphthalene	ND	1200	ug/kg	240
n-Propylbenzene	ND	1200	ug/kg	360
Styrene	ND	1200	ug/kg	240
1,1,1,2-Tetrachloroethane	ND	1200	ug/kg	160
1,1,2,2-Tetrachloroethane	ND	1200	ug/kg	210
Tetrachloroethene	**2300**	**1200**	**ug/kg**	**210**
Tetrahydrofuran	**1100 J**	**5000**	**ug/kg**	**1000**
Toluene	**770 J**	**1200**	**ug/kg**	**180**
1,2,3-Trichlorobenzene	ND	1200	ug/kg	360
1,2,4-Trichloro-benzene	ND	1200	ug/kg	340
1,1,1-Trichloroethane	**14000**	**1200**	**ug/kg**	**120**
1,1,2-Trichloroethane	ND	1200	ug/kg	180
Trichloroethene	**32000**	**1200**	**ug/kg**	**140**
Trichlorofluoromethane	ND	2500	ug/kg	320
1,2,3-Trichloropropane	ND	1200	ug/kg	270
1,1,2-Trichloro-1,2,2-trifluoroethane	**1600**	**1200**	**ug/kg**	**200**
1,2,4-Trimethylbenzene	ND	1200	ug/kg	320
1,3,5-Trimethylbenzene	ND	1200	ug/kg	310
Vinyl acetate	ND	2500	ug/kg	600
Vinyl chloride	ND	1200	ug/kg	140
m-Xylene & p-Xylene	ND	1200	ug/kg	480
o-Xylene	ND	1200	ug/kg	210
Xylenes (total)	ND	1200	ug/kg	700

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	9.6 *	(42 - 138)
1,2-Dichloroethane-d4	12 *	(38 - 144)
Toluene-d8	1.3 *	(52 - 137)
Bromofluorobenzene	1.7 *	(54 - 151)

NOTE(S):

* Surrogate recovery is outside stated control limits.

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

STL Knoxville - ACS

G-2987-R2-SPENT ACTIVATED CARBON

GC/MS Volatiles

Lot-Sample #: H6D030205-006 **Work Order #:** H2HQR1AA **Matrix:** SOLID

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT		RETENTION TIME	UNITS
Propene	115-07-1	1600 NJ	M	0.847	ug/kg
Isobutane	75-28-5	62000 NJ	M	0.9785	ug/kg
Unknown		19000 NJ	M	1.0941	ug/kg
Pentane	109-66-0	3200 NJ	M	1.6685	ug/kg
Unknown		2000 NJ	M	2.4514	ug/kg
Pentane, 3-methyl-	96-14-0	2200 NJ	M	2.6055	ug/kg
Hexane	110-54-3	1900 NJ	M	2.8237	ug/kg
Unknown		1300 NJ	M	3.244	ug/kg
Cyclopentane, methyl-	96-37-7	5900 NJ	M	3.3114	ug/kg
Cyclohexane	110-82-7	7300 NJ	M	3.8345	ug/kg
Unknown		9800 NJ	M	4.1425	ug/kg
Cyclohexane, methyl-	108-87-2	3900 NJ	M	4.7426	ug/kg
Pentane, 2,3,4-trimethyl-	565-75-3	2000 NJ	M	5.0827	ug/kg
Pentane, 2,3,3-trimethyl-	560-21-4	2800 NJ	M	5.179	ug/kg

NOTE(S):

M: Result was measured against nearest internal standard assuming a response factor of 1.

STL Knoxville - ACS

Client Sample ID: G-2991-R2-SCRUBBER BLOWDOWN

GC/MS Volatiles

Lot-Sample #...: H6D030205-007 **Work Order #...:** H2HQT1AA **Matrix.....:** WATER
Date Sampled...: 03/29/06 **Date Received..:** 04/02/06
Prep Date.....: 04/05/06 **Analysis Date..:** 04/05/06
Prep Batch #...: 6095253
Dilution Factor: 1 **Method.....:** SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	**4.1 J**	**10**	**ug/L**	**1.4**
Acrylonitrile	ND	20	ug/L	2.7
Benzene	ND	1.0	ug/L	0.10
Bromobenzene	ND	1.0	ug/L	0.11
Bromochloromethane	ND	1.0	ug/L	0.24
Bromodichloromethane	ND	1.0	ug/L	0.10
Bromoform	**0.92 J**	**1.0**	**ug/L**	**0.14**
Bromomethane	ND	2.0	ug/L	0.38
2-Butanone	ND	5.0	ug/L	0.75
n-Butylbenzene	ND	1.0	ug/L	0.10
sec-Butylbenzene	ND	1.0	ug/L	0.10
tert-Butylbenzene	ND	1.0	ug/L	0.24
Carbon disulfide	ND	1.0	ug/L	0.10
Carbon tetrachloride	ND	1.0	ug/L	0.12
Chlorobenzene	ND	1.0	ug/L	0.10
Chlorodibromomethane	**0.87 J**	**1.0**	**ug/L**	**0.20**
Chloroethane	ND	2.0	ug/L	0.24
Chloroform	ND	1.0	ug/L	0.10
Chloromethane	ND	2.0	ug/L	0.12
2-Chlorotoluene	ND	1.0	ug/L	0.24
4-Chlorotoluene	ND	1.0	ug/L	0.21
1,2-Dibromo-3-chloro-propane	ND	2.0	ug/L	0.45
1,2-Dibromoethane	ND	1.0	ug/L	0.24
Dibromomethane	ND	1.0	ug/L	0.21
1,2-Dichlorobenzene	ND	1.0	ug/L	0.10
1,3-Dichlorobenzene	ND	1.0	ug/L	0.10
1,4-Dichlorobenzene	ND	1.0	ug/L	0.12
Dichlorodifluoromethane	ND	2.0	ug/L	0.15
1,1-Dichloroethane	ND	1.0	ug/L	0.10
1,2-Dichloroethane	ND	1.0	ug/L	0.10
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.12
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.10
1,1-Dichloroethene	ND	1.0	ug/L	0.10
1,2-Dichloropropane	ND	1.0	ug/L	0.10
1,3-Dichloropropane	ND	1.0	ug/L	0.17
2,2-Dichloropropane	ND	1.0	ug/L	0.11
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.10
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.11

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STL Knoxville - ACS

Client Sample ID: G-2991-R2-SCRUBBER BLOWDOWN

GC/MS Volatiles

Lot-Sample #...: H6D030205-007 **Work Order #...:** H2HQT1AA **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1-Dichloropropene	ND	1.0	ug/L	0.10
Ethylbenzene	ND	1.0	ug/L	0.10
Hexachlorobutadiene	ND	2.0	ug/L	0.12
2-Hexanone	ND	5.0	ug/L	0.76
Iodomethane	ND	2.0	ug/L	0.12
Isopropylbenzene	ND	1.0	ug/L	0.10
p-Isopropyltoluene	ND	1.0	ug/L	0.10
Methylene chloride	**2.3**	**2.0**	**ug/L**	**0.23**
4-Methyl-2-pentanone	ND	5.0	ug/L	0.40
Naphthalene	ND	1.0	ug/L	0.17
n-Propylbenzene	ND	1.0	ug/L	0.10
Styrene	ND	1.0	ug/L	0.10
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	0.12
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.15
Tetrachloroethene	ND	1.0	ug/L	0.10
Tetrahydrofuran	ND	4.0	ug/L	1.2
Toluene	**0.41 J**	**1.0**	**ug/L**	**0.10**
1,2,3-Trichlorobenzene	ND	1.0	ug/L	0.23
1,2,4-Trichloro-benzene	ND	1.0	ug/L	0.15
1,1,1-Trichloroethane	ND	1.0	ug/L	0.10
1,1,2-Trichloroethane	ND	1.0	ug/L	0.25
Trichloroethene	ND	1.0	ug/L	0.10
Trichlorofluoromethane	ND	2.0	ug/L	0.12
1,2,3-Trichloropropane	ND	1.0	ug/L	0.36
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	1.0	ug/L	0.13
1,2,4-Trimethylbenzene	ND	1.0	ug/L	0.11
1,3,5-Trimethylbenzene	ND	1.0	ug/L	0.10
Vinyl acetate	ND	2.0	ug/L	0.24
Vinyl chloride	ND	1.0	ug/L	0.24
m-Xylene & p-Xylene	ND	1.0	ug/L	0.20
o-Xylene	ND	1.0	ug/L	0.14
Xylenes (total)	ND	1.0	ug/L	0.30

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	113	(79 - 120)
1,2-Dichloroethane-d4	113	(71 - 127)
Toluene-d8	101	(80 - 120)
Bromofluorobenzene	97	(69 - 126)

NOTE(S):

J Estimated result. Result is less than RL.

STL Knoxville - ACS

G-2991-R2-SCRUBBER BLOWDOWN

GC/MS Volatiles

Lot-Sample #: H6D030205-007 **Work Order #:** H2HQT1AA **Matrix:** WATER

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT	RETENTION TIME	UNITS
None				ug/L

STL Knoxville - ACS

Client Sample ID: G-2995-R2-POTW DISCHARGE

GC/MS Volatiles

Lot-Sample #...: H6D030205-008 **Work Order #...:** H2HQW1AA **Matrix.....:** WATER
Date Sampled...: 03/29/06 **Date Received..:** 04/02/06
Prep Date.....: 04/05/06 **Analysis Date..:** 04/05/06
Prep Batch #...: 6095253
Dilution Factor: 1 **Method.....:** SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	**3.7 J**	**10**	**ug/L**	**1.4**
Acrylonitrile	ND	20	ug/L	2.7
Benzene	ND	1.0	ug/L	0.10
Bromobenzene	ND	1.0	ug/L	0.11
Bromochloromethane	ND	1.0	ug/L	0.24
Bromodichloromethane	**0.89 J**	**1.0**	**ug/L**	**0.10**
Bromoform	**2.0**	**1.0**	**ug/L**	**0.14**
Bromomethane	ND	2.0	ug/L	0.38
2-Butanone	ND	5.0	ug/L	0.75
n-Butylbenzene	ND	1.0	ug/L	0.10
sec-Butylbenzene	ND	1.0	ug/L	0.10
tert-Butylbenzene	ND	1.0	ug/L	0.24
Carbon disulfide	ND	1.0	ug/L	0.10
Carbon tetrachloride	ND	1.0	ug/L	0.12
Chlorobenzene	ND	1.0	ug/L	0.10
Chlorodibromomethane	**1.3**	**1.0**	**ug/L**	**0.20**
Chloroethane	ND	2.0	ug/L	0.24
Chloroform	**0.15 J**	**1.0**	**ug/L**	**0.10**
Chloromethane	ND	2.0	ug/L	0.12
2-Chlorotoluene	ND	1.0	ug/L	0.24
4-Chlorotoluene	ND	1.0	ug/L	0.21
1,2-Dibromo-3-chloro-propane	ND	2.0	ug/L	0.45
1,2-Dibromoethane	ND	1.0	ug/L	0.24
Dibromomethane	ND	1.0	ug/L	0.21
1,2-Dichlorobenzene	ND	1.0	ug/L	0.10
1,3-Dichlorobenzene	ND	1.0	ug/L	0.10
1,4-Dichlorobenzene	ND	1.0	ug/L	0.12
Dichlorodifluoromethane	ND	2.0	ug/L	0.15
1,1-Dichloroethane	ND	1.0	ug/L	0.10
1,2-Dichloroethane	ND	1.0	ug/L	0.10
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.12
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.10
1,1-Dichloroethene	ND	1.0	ug/L	0.10
1,2-Dichloropropane	ND	1.0	ug/L	0.10
1,3-Dichloropropane	ND	1.0	ug/L	0.17
2,2-Dichloropropane	ND	1.0	ug/L	0.11
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.10
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.11

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STL Knoxville - ACS

Client Sample ID: G-2995-R2-POTW DISCHARGE

GC/MS Volatiles

Lot-Sample #...: H6D030205-008 **Work Order #...:** H2HQW1AA **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1-Dichloropropene	ND	1.0	ug/L	0.10
Ethylbenzene	ND	1.0	ug/L	0.10
Hexachlorobutadiene	ND	2.0	ug/L	0.12
2-Hexanone	ND	5.0	ug/L	0.76
Iodomethane	ND	2.0	ug/L	0.12
Isopropylbenzene	ND	1.0	ug/L	0.10
p-Isopropyltoluene	ND	1.0	ug/L	0.10
Methylene chloride	**2.0**	**2.0**	**ug/L**	**0.23**
4-Methyl-2-pentanone	ND	5.0	ug/L	0.40
Naphthalene	ND	1.0	ug/L	0.17
n-Propylbenzene	ND	1.0	ug/L	0.10
Styrene	ND	1.0	ug/L	0.10
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	0.12
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.15
Tetrachloroethene	ND	1.0	ug/L	0.10
Tetrahydrofuran	ND	4.0	ug/L	1.2
Toluene	**0.43 J**	**1.0**	**ug/L**	**0.10**
1,2,3-Trichlorobenzene	ND	1.0	ug/L	0.23
1,2,4-Trichloro-benzene	ND	1.0	ug/L	0.15
1,1,1-Trichloroethane	ND	1.0	ug/L	0.10
1,1,2-Trichloroethane	ND	1.0	ug/L	0.25
Trichloroethene	ND	1.0	ug/L	0.10
Trichlorofluoromethane	ND	2.0	ug/L	0.12
1,2,3-Trichloropropane	ND	1.0	ug/L	0.36
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	1.0	ug/L	0.13
1,2,4-Trimethylbenzene	ND	1.0	ug/L	0.11
1,3,5-Trimethylbenzene	ND	1.0	ug/L	0.10
Vinyl acetate	ND	2.0	ug/L	0.24
Vinyl chloride	ND	1.0	ug/L	0.24
m-Xylene & p-Xylene	ND	1.0	ug/L	0.20
o-Xylene	ND	1.0	ug/L	0.14
Xylenes (total)	ND	1.0	ug/L	0.30

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	109	(79 - 120)
1,2-Dichloroethane-d4	110	(71 - 127)
Toluene-d8	101	(80 - 120)
Bromofluorobenzene	93	(69 - 126)

NOTE(S):

J Estimated result. Result is less than RL.

STL Knoxville - ACS

G-2995-R2-POTW DISCHARGE

GC/MS Volatiles

Lot-Sample #: H6D030205-008 **Work Order #:** H2HQW1AA **Matrix:** WATER

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT	RETENTION TIME	UNITS
None				ug/L

STL Knoxville - ACS

Client Sample ID: G-3003-R2-MAKE-UP WATER

GC/MS Volatiles

Lot-Sample #...: H6D030205-009 **Work Order #...:** H2HQ01AA **Matrix.....:** WATER
Date Sampled...: 03/29/06 **Date Received..:** 04/02/06
Prep Date.....: 04/05/06 **Analysis Date..:** 04/05/06
Prep Batch #...: 6095253
Dilution Factor: 1 **Method.....:** SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	**3.8 J**	**10**	**ug/L**	**1.4**
Acrylonitrile	ND	20	ug/L	2.7
Benzene	ND	1.0	ug/L	0.10
Bromobenzene	ND	1.0	ug/L	0.11
Bromochloromethane	ND	1.0	ug/L	0.24
Bromodichloromethane	**4.1**	**1.0**	**ug/L**	**0.10**
Bromoform	**32**	**1.0**	**ug/L**	**0.14**
Bromomethane	ND	2.0	ug/L	0.38
2-Butanone	ND	5.0	ug/L	0.75
n-Butylbenzene	ND	1.0	ug/L	0.10
sec-Butylbenzene	ND	1.0	ug/L	0.10
tert-Butylbenzene	ND	1.0	ug/L	0.24
Carbon disulfide	ND	1.0	ug/L	0.10
Carbon tetrachloride	ND	1.0	ug/L	0.12
Chlorobenzene	ND	1.0	ug/L	0.10
Chlorodibromomethane	**13**	**1.0**	**ug/L**	**0.20**
Chloroethane	ND	2.0	ug/L	0.24
Chloroform	**0.64 J**	**1.0**	**ug/L**	**0.10**
Chloromethane	ND	2.0	ug/L	0.12
2-Chlorotoluene	ND	1.0	ug/L	0.24
4-Chlorotoluene	ND	1.0	ug/L	0.21
1,2-Dibromo-3-chloro-propane	ND	2.0	ug/L	0.45
1,2-Dibromoethane	ND	1.0	ug/L	0.24
Dibromomethane	ND	1.0	ug/L	0.21
1,2-Dichlorobenzene	ND	1.0	ug/L	0.10
1,3-Dichlorobenzene	ND	1.0	ug/L	0.10
1,4-Dichlorobenzene	ND	1.0	ug/L	0.12
Dichlorodifluoromethane	ND	2.0	ug/L	0.15
1,1-Dichloroethane	ND	1.0	ug/L	0.10
1,2-Dichloroethane	**0.13 J**	**1.0**	**ug/L**	**0.10**
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.12
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.10
1,1-Dichloroethene	ND	1.0	ug/L	0.10
1,2-Dichloropropane	ND	1.0	ug/L	0.10
1,3-Dichloropropane	ND	1.0	ug/L	0.17
2,2-Dichloropropane	ND	1.0	ug/L	0.11
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.10
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.11

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STL Knoxville - ACS

Client Sample ID: G-3003-R2-MAKE-UP WATER

GC/MS Volatiles

Lot-Sample #...: H6D030205-009 **Work Order #...:** H2HQ01AA **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1-Dichloropropene	ND	1.0	ug/L	0.10
Ethylbenzene	ND	1.0	ug/L	0.10
Hexachlorobutadiene	ND	2.0	ug/L	0.12
2-Hexanone	ND	5.0	ug/L	0.76
Iodomethane	ND	2.0	ug/L	0.12
Isopropylbenzene	ND	1.0	ug/L	0.10
p-Isopropyltoluene	ND	1.0	ug/L	0.10
Methylene chloride	**2.4**	**2.0**	**ug/L**	**0.23**
4-Methyl-2-pentanone	ND	5.0	ug/L	0.40
Naphthalene	ND	1.0	ug/L	0.17
n-Propylbenzene	ND	1.0	ug/L	0.10
Styrene	ND	1.0	ug/L	0.10
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	0.12
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.15
Tetrachloroethene	**0.31 J**	**1.0**	**ug/L**	**0.10**
Tetrahydrofuran	ND	4.0	ug/L	1.2
Toluene	**0.41 J**	**1.0**	**ug/L**	**0.10**
1,2,3-Trichlorobenzene	ND	1.0	ug/L	0.23
1,2,4-Trichloro-benzene	ND	1.0	ug/L	0.15
1,1,1-Trichloroethane	ND	1.0	ug/L	0.10
1,1,2-Trichloroethane	ND	1.0	ug/L	0.25
Trichloroethene	ND	1.0	ug/L	0.10
Trichlorofluoromethane	ND	2.0	ug/L	0.12
1,2,3-Trichloropropane	ND	1.0	ug/L	0.36
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	1.0	ug/L	0.13
1,2,4-Trimethylbenzene	ND	1.0	ug/L	0.11
1,3,5-Trimethylbenzene	ND	1.0	ug/L	0.10
Vinyl acetate	ND	2.0	ug/L	0.24
Vinyl chloride	ND	1.0	ug/L	0.24
m-Xylene & p-Xylene	ND	1.0	ug/L	0.20
o-Xylene	ND	1.0	ug/L	0.14
Xylenes (total)	ND	1.0	ug/L	0.30

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	112	(79 - 120)
1,2-Dichloroethane-d4	113	(71 - 127)
Toluene-d8	101	(80 - 120)
Bromofluorobenzene	94	(69 - 126)

NOTE(S):

J Estimated result. Result is less than RL.

STL Knoxville - ACS

G-3003-R2-MAKE-UP WATER

GC/MS Volatiles

Lot-Sample #: H6D030205-009 **Work Order #:** H2HQ01AA **Matrix:** WATER

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT	RETENTION TIME	UNITS
None				ug/L

STL Knoxville - ACS

Client Sample ID: G-3070-R3-SPENT ACTIVATED CARBON

GC/MS Volatiles

Lot-Sample #...: H6D030205-010 **Work Order #...:** H2HQ41AA **Matrix.....:** SOLID
Date Sampled...: 03/30/06 **Date Received..:** 04/02/06
Prep Date.....: 04/04/06 **Analysis Date..:** 04/04/06
Prep Batch #...: 6094386
Dilution Factor: 5 **Method.....:** SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	**2400 J,B**	**5000**	**ug/kg**	**1200**
Acrylonitrile	ND	25000	ug/kg	3800
Benzene	**1000 J**	**1200**	**ug/kg**	**140**
Bromobenzene	ND	1200	ug/kg	260
Bromochloromethane	ND	1200	ug/kg	170
Bromodichloromethane	ND	1200	ug/kg	120
Bromoform	ND	1200	ug/kg	210
Bromomethane	ND	2500	ug/kg	700
2-Butanone	**1200 J**	**5000**	**ug/kg**	**1000**
n-Butylbenzene	ND	1200	ug/kg	380
sec-Butylbenzene	ND	1200	ug/kg	380
tert-Butylbenzene	ND	1200	ug/kg	340
Carbon disulfide	ND	1200	ug/kg	150
Carbon tetrachloride	ND	1200	ug/kg	120
Chlorobenzene	ND	1200	ug/kg	130
Chlorodibromomethane	ND	1200	ug/kg	120
Chloroethane	ND	2500	ug/kg	280
Chloroform	**1100 J**	**1200**	**ug/kg**	**120**
Chloromethane	ND	2500	ug/kg	1000
2-Chlorotoluene	ND	1200	ug/kg	300
4-Chlorotoluene	ND	1200	ug/kg	300
1,2-Dibromo-3-chloro-propane	ND	2500	ug/kg	140
1,2-Dibromoethane	ND	1200	ug/kg	180
Dibromomethane	ND	1200	ug/kg	120
1,2-Dichlorobenzene	ND	1200	ug/kg	320
1,3-Dichlorobenzene	ND	1200	ug/kg	330
1,4-Dichlorobenzene	ND	1200	ug/kg	330
Dichlorodifluoromethane	ND	2500	ug/kg	160
1,1-Dichloroethane	**260 J**	**1200**	**ug/kg**	**120**
1,2-Dichloroethane	**210 J**	**1200**	**ug/kg**	**140**
cis-1,2-Dichloroethene	**150 J**	**1200**	**ug/kg**	**120**
trans-1,2-Dichloroethene	ND	1200	ug/kg	190
1,1-Dichloroethene	**840 J**	**1200**	**ug/kg**	**240**
1,2-Dichloropropane	ND	1200	ug/kg	180
1,3-Dichloropropane	ND	1200	ug/kg	220
2,2-Dichloropropane	ND	1200	ug/kg	120
cis-1,3-Dichloropropene	ND	1200	ug/kg	120
trans-1,3-Dichloropropene	ND	1200	ug/kg	150

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STL Knoxville - ACS

Client Sample ID: G-3070-R3-SPENT ACTIVATED CARBON

GC/MS Volatiles

Lot-Sample #...: H6D030205-010 **Work Order #...:** H2HQ41AA **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1-Dichloropropene	ND	1200	ug/kg	120
Ethylbenzene	ND	1200	ug/kg	240
Hexachlorobutadiene	ND	1200	ug/kg	550
2-Hexanone	ND	5000	ug/kg	800
Iodomethane	ND	2500	ug/kg	490
Isopropylbenzene	ND	1200	ug/kg	280
p-Isopropyltoluene	ND	1200	ug/kg	420
Methylene chloride	ND	1200	ug/kg	420
4-Methyl-2-pentanone	ND	5000	ug/kg	800
Naphthalene	**600 J**	**1200**	**ug/kg**	**240**
n-Propylbenzene	ND	1200	ug/kg	360
Styrene	ND	1200	ug/kg	240
1,1,1,2-Tetrachloroethane	ND	1200	ug/kg	160
1,1,2,2-Tetrachloroethane	ND	1200	ug/kg	210
Tetrachloroethene	**1100 J**	**1200**	**ug/kg**	**210**
Tetrahydrofuran	ND	5000	ug/kg	1000
Toluene	**210 J**	**1200**	**ug/kg**	**180**
1,2,3-Trichlorobenzene	ND	1200	ug/kg	360
1,2,4-Trichloro-benzene	ND	1200	ug/kg	340
1,1,1-Trichloroethane	**11000**	**1200**	**ug/kg**	**120**
1,1,2-Trichloroethane	ND	1200	ug/kg	180
Trichloroethene	**20000**	**1200**	**ug/kg**	**140**
Trichlorofluoromethane	ND	2500	ug/kg	320
1,2,3-Trichloropropane	ND	1200	ug/kg	270
1,1,2-Trichloro-1,2,2-trifluoroethane	**1100 J**	**1200**	**ug/kg**	**200**
1,2,4-Trimethylbenzene	ND	1200	ug/kg	320
1,3,5-Trimethylbenzene	ND	1200	ug/kg	310
Vinyl acetate	ND	2500	ug/kg	600
Vinyl chloride	ND	1200	ug/kg	140
m-Xylene & p-Xylene	ND	1200	ug/kg	480
o-Xylene	ND	1200	ug/kg	210
Xylenes (total)	ND	1200	ug/kg	700

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	9.3 *	(42 - 138)
1,2-Dichloroethane-d4	10 *	(38 - 144)
Toluene-d8	0.75 *	(52 - 137)
Bromofluorobenzene	2.2 *	(54 - 151)

NOTE(S):

* Surrogate recovery is outside stated control limits.

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

STL Knoxville - ACS

G-3070-R3-SPENT ACTIVATED CARBON

GC/MS Volatiles

Lot-Sample #: H6D030205-010 **Work Order #:** H2HQ41AA **Matrix:** SOLID

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT		RETENTION TIME	UNITS
Isobutane	75-28-5	6500 NJ	M	0.9784	ug/kg
Unknown		1500 NJ	M	1.094	ug/kg
Naphthalene, 1,3-dimethyl-	575-41-7	2200 NJ	M	10.05	ug/kg
Naphthalene, 2,6-dimethyl-	581-42-0	1600 NJ	M	10.245	ug/kg
Naphthalene, 1,2,3,4-tetrahydr	3877-19-8	1300 NJ	M	12.167	ug/kg
Naphthalene, 1,2,3,4-tetrahydr	2809-64-5	3500 NJ	M	12.626	ug/kg
Naphthalene, 1,2,3,4-tetrahydr	2809-64-5	2300 NJ	M	12.918	ug/kg
Naphthalene, 1-methyl-	90-12-0	11000 NJ	M	13.085	ug/kg
Naphthalene, 1-methyl-	90-12-0	5400 NJ	M	13.252	ug/kg

NOTE(S):

M: Result was measured against nearest internal standard assuming a response factor of 1.

STL Knoxville - ACS

Client Sample ID: G-3074-R3-SCRUBBER BLOWDOWN

GC/MS Volatiles

Lot-Sample #...: H6D030205-011 **Work Order #...:** H2HRA1AA **Matrix.....:** WATER
Date Sampled...: 03/30/06 **Date Received..:** 04/02/06
Prep Date.....: 04/05/06 **Analysis Date..:** 04/05/06
Prep Batch #...: 6095253
Dilution Factor: 1 **Method.....:** SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	**3.6 J**	**10**	**ug/L**	**1.4**
Acrylonitrile	ND	20	ug/L	2.7
Benzene	ND	1.0	ug/L	0.10
Bromobenzene	ND	1.0	ug/L	0.11
Bromochloromethane	ND	1.0	ug/L	0.24
Bromodichloromethane	ND	1.0	ug/L	0.10
Bromoform	**1.0**	**1.0**	**ug/L**	**0.14**
Bromomethane	ND	2.0	ug/L	0.38
2-Butanone	ND	5.0	ug/L	0.75
n-Butylbenzene	ND	1.0	ug/L	0.10
sec-Butylbenzene	ND	1.0	ug/L	0.10
tert-Butylbenzene	ND	1.0	ug/L	0.24
Carbon disulfide	ND	1.0	ug/L	0.10
Carbon tetrachloride	ND	1.0	ug/L	0.12
Chlorobenzene	ND	1.0	ug/L	0.10
Chlorodibromomethane	**0.89 J**	**1.0**	**ug/L**	**0.20**
Chloroethane	ND	2.0	ug/L	0.24
Chloroform	ND	1.0	ug/L	0.10
Chloromethane	ND	2.0	ug/L	0.12
2-Chlorotoluene	ND	1.0	ug/L	0.24
4-Chlorotoluene	ND	1.0	ug/L	0.21
1,2-Dibromo-3-chloro-propane	ND	2.0	ug/L	0.45
1,2-Dibromoethane	ND	1.0	ug/L	0.24
Dibromomethane	ND	1.0	ug/L	0.21
1,2-Dichlorobenzene	ND	1.0	ug/L	0.10
1,3-Dichlorobenzene	ND	1.0	ug/L	0.10
1,4-Dichlorobenzene	ND	1.0	ug/L	0.12
Dichlorodifluoromethane	ND	2.0	ug/L	0.15
1,1-Dichloroethane	ND	1.0	ug/L	0.10
1,2-Dichloroethane	ND	1.0	ug/L	0.10
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.12
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.10
1,1-Dichloroethene	ND	1.0	ug/L	0.10
1,2-Dichloropropane	ND	1.0	ug/L	0.10
1,3-Dichloropropane	ND	1.0	ug/L	0.17
2,2-Dichloropropane	ND	1.0	ug/L	0.11
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.10
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.11

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STL Knoxville - ACS

Client Sample ID: G-3074-R3-SCRUBBER BLOWDOWN

GC/MS Volatiles

Lot-Sample #...: H6D030205-011 **Work Order #...:** H2HRA1AA **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1-Dichloropropene	ND	1.0	ug/L	0.10
Ethylbenzene	ND	1.0	ug/L	0.10
Hexachlorobutadiene	ND	2.0	ug/L	0.12
2-Hexanone	ND	5.0	ug/L	0.76
Iodomethane	ND	2.0	ug/L	0.12
Isopropylbenzene	ND	1.0	ug/L	0.10
p-Isopropyltoluene	ND	1.0	ug/L	0.10
Methylene chloride	**0.84 J**	**2.0**	**ug/L**	**0.23**
4-Methyl-2-pentanone	ND	5.0	ug/L	0.40
Naphthalene	ND	1.0	ug/L	0.17
n-Propylbenzene	ND	1.0	ug/L	0.10
Styrene	ND	1.0	ug/L	0.10
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	0.12
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.15
Tetrachloroethene	ND	1.0	ug/L	0.10
Tetrahydrofuran	ND	4.0	ug/L	1.2
Toluene	ND	1.0	ug/L	0.10
1,2,3-Trichlorobenzene	ND	1.0	ug/L	0.23
1,2,4-Trichloro-benzene	ND	1.0	ug/L	0.15
1,1,1-Trichloroethane	ND	1.0	ug/L	0.10
1,1,2-Trichloroethane	ND	1.0	ug/L	0.25
Trichloroethene	ND	1.0	ug/L	0.10
Trichlorofluoromethane	ND	2.0	ug/L	0.12
1,2,3-Trichloropropane	ND	1.0	ug/L	0.36
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	1.0	ug/L	0.13
1,2,4-Trimethylbenzene	ND	1.0	ug/L	0.11
1,3,5-Trimethylbenzene	ND	1.0	ug/L	0.10
Vinyl acetate	ND	2.0	ug/L	0.24
Vinyl chloride	ND	1.0	ug/L	0.24
m-Xylene & p-Xylene	ND	1.0	ug/L	0.20
o-Xylene	ND	1.0	ug/L	0.14
Xylenes (total)	ND	1.0	ug/L	0.30

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	110	(79 - 120)
1,2-Dichloroethane-d4	115	(71 - 127)
Toluene-d8	100	(80 - 120)
Bromofluorobenzene	93	(69 - 126)

NOTE(S):

J Estimated result. Result is less than RL.

STL Knoxville - ACS

G-3074-R3-SCRUBBER BLOWDOWN

GC/MS Volatiles

Lot-Sample #: H6D030205-011 **Work Order #:** H2HRA1AA **Matrix:** WATER

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT	RETENTION TIME	UNITS
None				ug/L

STL Knoxville - ACS

Client Sample ID: G-3078-R3-POTW DISCHARGE

GC/MS Volatiles

Lot-Sample #...: H6D030205-012 **Work Order #...:** H2HRF1AA **Matrix.....:** WATER
Date Sampled...: 03/30/06 **Date Received..:** 04/02/06
Prep Date.....: 04/05/06 **Analysis Date..:** 04/06/06
Prep Batch #...: 6095253
Dilution Factor: 1 **Method.....:** SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	**4.8 J**	**10**	**ug/L**	**1.4**
Acrylonitrile	ND	20	ug/L	2.7
Benzene	ND	1.0	ug/L	0.10
Bromobenzene	ND	1.0	ug/L	0.11
Bromochloromethane	ND	1.0	ug/L	0.24
Bromodichloromethane	**1.0**	**1.0**	**ug/L**	**0.10**
Bromoform	**2.1**	**1.0**	**ug/L**	**0.14**
Bromomethane	ND	2.0	ug/L	0.38
2-Butanone	ND	5.0	ug/L	0.75
n-Butylbenzene	ND	1.0	ug/L	0.10
sec-Butylbenzene	ND	1.0	ug/L	0.10
tert-Butylbenzene	ND	1.0	ug/L	0.24
Carbon disulfide	**0.16 J**	**1.0**	**ug/L**	**0.10**
Carbon tetrachloride	ND	1.0	ug/L	0.12
Chlorobenzene	ND	1.0	ug/L	0.10
Chlorodibromomethane	**1.4**	**1.0**	**ug/L**	**0.20**
Chloroethane	ND	2.0	ug/L	0.24
Chloroform	**0.14 J**	**1.0**	**ug/L**	**0.10**
Chloromethane	ND	2.0	ug/L	0.12
2-Chlorotoluene	ND	1.0	ug/L	0.24
4-Chlorotoluene	ND	1.0	ug/L	0.21
1,2-Dibromo-3-chloro-propane	ND	2.0	ug/L	0.45
1,2-Dibromoethane	ND	1.0	ug/L	0.24
Dibromomethane	ND	1.0	ug/L	0.21
1,2-Dichlorobenzene	ND	1.0	ug/L	0.10
1,3-Dichlorobenzene	ND	1.0	ug/L	0.10
1,4-Dichlorobenzene	ND	1.0	ug/L	0.12
Dichlorodifluoromethane	ND	2.0	ug/L	0.15
1,1-Dichloroethane	ND	1.0	ug/L	0.10
1,2-Dichloroethane	ND	1.0	ug/L	0.10
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.12
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.10
1,1-Dichloroethene	ND	1.0	ug/L	0.10
1,2-Dichloropropane	ND	1.0	ug/L	0.10
1,3-Dichloropropane	ND	1.0	ug/L	0.17
2,2-Dichloropropane	ND	1.0	ug/L	0.11
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.10
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.11

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STL Knoxville - ACS

Client Sample ID: G-3078-R3-POTW DISCHARGE

GC/MS Volatiles

Lot-Sample #...: H6D030205-012 **Work Order #...:** H2HRF1AA **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1-Dichloropropene	ND	1.0	ug/L	0.10
Ethylbenzene	ND	1.0	ug/L	0.10
Hexachlorobutadiene	ND	2.0	ug/L	0.12
2-Hexanone	ND	5.0	ug/L	0.76
Iodomethane	ND	2.0	ug/L	0.12
Isopropylbenzene	ND	1.0	ug/L	0.10
p-Isopropyltoluene	ND	1.0	ug/L	0.10
Methylene chloride	**0.65 J**	**2.0**	**ug/L**	**0.23**
4-Methyl-2-pentanone	ND	5.0	ug/L	0.40
Naphthalene	ND	1.0	ug/L	0.17
n-Propylbenzene	ND	1.0	ug/L	0.10
Styrene	ND	1.0	ug/L	0.10
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	0.12
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.15
Tetrachloroethene	ND	1.0	ug/L	0.10
Tetrahydrofuran	ND	4.0	ug/L	1.2
Toluene	**0.12 J**	**1.0**	**ug/L**	**0.10**
1,2,3-Trichlorobenzene	ND	1.0	ug/L	0.23
1,2,4-Trichloro-benzene	ND	1.0	ug/L	0.15
1,1,1-Trichloroethane	ND	1.0	ug/L	0.10
1,1,2-Trichloroethane	ND	1.0	ug/L	0.25
Trichloroethene	ND	1.0	ug/L	0.10
Trichlorofluoromethane	ND	2.0	ug/L	0.12
1,2,3-Trichloropropane	ND	1.0	ug/L	0.36
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	1.0	ug/L	0.13
1,2,4-Trimethylbenzene	ND	1.0	ug/L	0.11
1,3,5-Trimethylbenzene	ND	1.0	ug/L	0.10
Vinyl acetate	ND	2.0	ug/L	0.24
Vinyl chloride	ND	1.0	ug/L	0.24
m-Xylene & p-Xylene	ND	1.0	ug/L	0.20
o-Xylene	ND	1.0	ug/L	0.14
Xylenes (total)	ND	1.0	ug/L	0.30

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	107	(79 - 120)
1,2-Dichloroethane-d4	109	(71 - 127)
Toluene-d8	101	(80 - 120)
Bromofluorobenzene	95	(69 - 126)

NOTE(S):

J Estimated result. Result is less than RL.

STL Knoxville - ACS

G-3078-R3-POTW DISCHARGE

GC/MS Volatiles

Lot-Sample #: H6D030205-012 **Work Order #:** H2HRF1AA **Matrix:** WATER

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT	RETENTION TIME	UNITS
None				ug/L

STL Knoxville - ACS

Client Sample ID: G-3086-R3-MAKE-UP WATER

GC/MS Volatiles

Lot-Sample #...: H6D030205-013 **Work Order #...:** H2HRH1AA **Matrix.....:** WATER
Date Sampled...: 03/30/06 **Date Received..:** 04/02/06
Prep Date.....: 04/05/06 **Analysis Date..:** 04/06/06
Prep Batch #...: 6095253
Dilution Factor: 1 **Method.....:** SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	**4.5 J**	**10**	**ug/L**	**1.4**
Acrylonitrile	ND	20	ug/L	2.7
Benzene	ND	1.0	ug/L	0.10
Bromobenzene	ND	1.0	ug/L	0.11
Bromochloromethane	ND	1.0	ug/L	0.24
Bromodichloromethane	**2.5**	**1.0**	**ug/L**	**0.10**
Bromoform	**28**	**1.0**	**ug/L**	**0.14**
Bromomethane	ND	2.0	ug/L	0.38
2-Butanone	ND	5.0	ug/L	0.75
n-Butylbenzene	ND	1.0	ug/L	0.10
sec-Butylbenzene	ND	1.0	ug/L	0.10
tert-Butylbenzene	ND	1.0	ug/L	0.24
Carbon disulfide	ND	1.0	ug/L	0.10
Carbon tetrachloride	ND	1.0	ug/L	0.12
Chlorobenzene	ND	1.0	ug/L	0.10
Chlorodibromomethane	**8.9**	**1.0**	**ug/L**	**0.20**
Chloroethane	ND	2.0	ug/L	0.24
Chloroform	**0.62 J**	**1.0**	**ug/L**	**0.10**
Chloromethane	ND	2.0	ug/L	0.12
2-Chlorotoluene	ND	1.0	ug/L	0.24
4-Chlorotoluene	ND	1.0	ug/L	0.21
1,2-Dibromo-3-chloro-propane	ND	2.0	ug/L	0.45
1,2-Dibromoethane	ND	1.0	ug/L	0.24
Dibromomethane	ND	1.0	ug/L	0.21
1,2-Dichlorobenzene	ND	1.0	ug/L	0.10
1,3-Dichlorobenzene	ND	1.0	ug/L	0.10
1,4-Dichlorobenzene	ND	1.0	ug/L	0.12
Dichlorodifluoromethane	ND	2.0	ug/L	0.15
1,1-Dichloroethane	ND	1.0	ug/L	0.10
1,2-Dichloroethane	**0.12 J**	**1.0**	**ug/L**	**0.10**
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.12
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.10
1,1-Dichloroethene	ND	1.0	ug/L	0.10
1,2-Dichloropropane	ND	1.0	ug/L	0.10
1,3-Dichloropropane	ND	1.0	ug/L	0.17
2,2-Dichloropropane	ND	1.0	ug/L	0.11
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.10
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.11

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STL Knoxville - ACS

Client Sample ID: G-3086-R3-MAKE-UP WATER

GC/MS Volatiles

Lot-Sample #...: H6D030205-013 **Work Order #...:** H2HRH1AA **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1-Dichloropropene	ND	1.0	ug/L	0.10
Ethylbenzene	ND	1.0	ug/L	0.10
Hexachlorobutadiene	ND	2.0	ug/L	0.12
2-Hexanone	ND	5.0	ug/L	0.76
Iodomethane	ND	2.0	ug/L	0.12
Isopropylbenzene	ND	1.0	ug/L	0.10
p-Isopropyltoluene	ND	1.0	ug/L	0.10
Methylene chloride	**2.0**	**2.0**	**ug/L**	**0.23**
4-Methyl-2-pentanone	ND	5.0	ug/L	0.40
Naphthalene	ND	1.0	ug/L	0.17
n-Propylbenzene	ND	1.0	ug/L	0.10
Styrene	ND	1.0	ug/L	0.10
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	0.12
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.15
Tetrachloroethene	**0.45 J**	**1.0**	**ug/L**	**0.10**
Tetrahydrofuran	ND	4.0	ug/L	1.2
Toluene	**0.31 J**	**1.0**	**ug/L**	**0.10**
1,2,3-Trichlorobenzene	ND	1.0	ug/L	0.23
1,2,4-Trichloro-benzene	ND	1.0	ug/L	0.15
1,1,1-Trichloroethane	ND	1.0	ug/L	0.10
1,1,2-Trichloroethane	ND	1.0	ug/L	0.25
Trichloroethene	ND	1.0	ug/L	0.10
Trichlorofluoromethane	ND	2.0	ug/L	0.12
1,2,3-Trichloropropane	ND	1.0	ug/L	0.36
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	1.0	ug/L	0.13
1,2,4-Trimethylbenzene	ND	1.0	ug/L	0.11
1,3,5-Trimethylbenzene	ND	1.0	ug/L	0.10
Vinyl acetate	ND	2.0	ug/L	0.24
Vinyl chloride	ND	1.0	ug/L	0.24
m-Xylene & p-Xylene	ND	1.0	ug/L	0.20
o-Xylene	ND	1.0	ug/L	0.14
Xylenes (total)	ND	1.0	ug/L	0.30

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	110	(79 - 120)
1,2-Dichloroethane-d4	107	(71 - 127)
Toluene-d8	102	(80 - 120)
Bromofluorobenzene	96	(69 - 126)

NOTE(S):

J Estimated result. Result is less than RL.

STL Knoxville - ACS

G-3086-R3-MAKE-UP WATER

GC/MS Volatiles

Lot-Sample #: H6D030205-013 **Work Order #:** H2HRH1AA **Matrix:** WATER

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT	RETENTION TIME	UNITS
None				ug/L

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: H6D030205 **Work Order #...:** H2KWV1AA **Matrix.....:** SOLID
MB Lot-Sample #: H6D040000-386

Prep Date.....: 04/04/06
Analysis Date..: 04/04/06 **Prep Batch #...:** 6094386
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Acetone	**340 J**	**1000**	**ug/kg**	**SW846 8260B**
Acrylonitrile	ND	5000	ug/kg	SW846 8260B
Benzene	ND	250	ug/kg	SW846 8260B
Bromobenzene	ND	250	ug/kg	SW846 8260B
Bromochloromethane	ND	250	ug/kg	SW846 8260B
Bromodichloromethane	ND	250	ug/kg	SW846 8260B
Bromoform	ND	250	ug/kg	SW846 8260B
Bromomethane	**260 J**	**500**	**ug/kg**	**SW846 8260B**
2-Butanone	ND	1000	ug/kg	SW846 8260B
n-Butylbenzene	ND	250	ug/kg	SW846 8260B
sec-Butylbenzene	ND	250	ug/kg	SW846 8260B
tert-Butylbenzene	ND	250	ug/kg	SW846 8260B
Carbon disulfide	ND	250	ug/kg	SW846 8260B
Carbon tetrachloride	ND	250	ug/kg	SW846 8260B
Chlorobenzene	ND	250	ug/kg	SW846 8260B
Chlorodibromomethane	ND	250	ug/kg	SW846 8260B
Chloroethane	ND	500	ug/kg	SW846 8260B
Chloroform	ND	250	ug/kg	SW846 8260B
Chloromethane	ND	500	ug/kg	SW846 8260B
2-Chlorotoluene	ND	250	ug/kg	SW846 8260B
4-Chlorotoluene	ND	250	ug/kg	SW846 8260B
1,2-Dibromo-3-chloro-propane	ND	500	ug/kg	SW846 8260B
1,2-Dibromoethane	ND	250	ug/kg	SW846 8260B
Dibromomethane	ND	250	ug/kg	SW846 8260B
1,2-Dichlorobenzene	ND	250	ug/kg	SW846 8260B
1,3-Dichlorobenzene	ND	250	ug/kg	SW846 8260B
1,4-Dichlorobenzene	ND	250	ug/kg	SW846 8260B
Dichlorodifluoromethane	ND	500	ug/kg	SW846 8260B
1,1-Dichloroethane	ND	250	ug/kg	SW846 8260B
1,2-Dichloroethane	ND	250	ug/kg	SW846 8260B
cis-1,2-Dichloroethene	ND	250	ug/kg	SW846 8260B
trans-1,2-Dichloroethene	ND	250	ug/kg	SW846 8260B
1,1-Dichloroethene	ND	250	ug/kg	SW846 8260B
1,2-Dichloropropane	ND	250	ug/kg	SW846 8260B
1,3-Dichloropropane	ND	250	ug/kg	SW846 8260B
2,2-Dichloropropane	ND	250	ug/kg	SW846 8260B
cis-1,3-Dichloropropene	ND	250	ug/kg	SW846 8260B
trans-1,3-Dichloropropene	ND	250	ug/kg	SW846 8260B
1,1-Dichloropropene	ND	250	ug/kg	SW846 8260B
Ethylbenzene	ND	250	ug/kg	SW846 8260B

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METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: H6D030205 **Work Order #...:** H2KWV1AA **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Hexachlorobutadiene	ND	250	ug/kg	SW846 8260B
2-Hexanone	ND	1000	ug/kg	SW846 8260B
Iodomethane	**270 J**	**500**	**ug/kg**	**SW846 8260B**
Isopropylbenzene	ND	250	ug/kg	SW846 8260B
p-Isopropyltoluene	ND	250	ug/kg	SW846 8260B
Methylene chloride	ND	250	ug/kg	SW846 8260B
4-Methyl-2-pentanone	ND	1000	ug/kg	SW846 8260B
Naphthalene	ND	250	ug/kg	SW846 8260B
n-Propylbenzene	ND	250	ug/kg	SW846 8260B
Styrene	ND	250	ug/kg	SW846 8260B
1,1,1,2-Tetrachloroethane	ND	250	ug/kg	SW846 8260B
1,1,2,2-Tetrachloroethane	ND	250	ug/kg	SW846 8260B
Tetrachloroethene	ND	250	ug/kg	SW846 8260B
Tetrahydrofuran	ND	1000	ug/kg	SW846 8260B
Toluene	ND	250	ug/kg	SW846 8260B
1,2,3-Trichlorobenzene	ND	250	ug/kg	SW846 8260B
1,2,4-Trichloro-benzene	ND	250	ug/kg	SW846 8260B
1,1,1-Trichloroethane	ND	250	ug/kg	SW846 8260B
1,1,2-Trichloroethane	ND	250	ug/kg	SW846 8260B
Trichloroethene	ND	250	ug/kg	SW846 8260B
Trichlorofluoromethane	ND	500	ug/kg	SW846 8260B
1,2,3-Trichloropropane	ND	250	ug/kg	SW846 8260B
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	250	ug/kg	SW846 8260B
1,2,4-Trimethylbenzene	ND	250	ug/kg	SW846 8260B
1,3,5-Trimethylbenzene	ND	250	ug/kg	SW846 8260B
Vinyl acetate	ND	500	ug/kg	SW846 8260B
Vinyl chloride	ND	250	ug/kg	SW846 8260B
m-Xylene & p-Xylene	ND	250	ug/kg	SW846 8260B
o-Xylene	ND	250	ug/kg	SW846 8260B
Xylenes (total)	ND	250	ug/kg	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	85	(42 - 138)
1,2-Dichloroethane-d4	91	(38 - 144)
Toluene-d8	88	(52 - 137)
Bromofluorobenzene	87	(54 - 151)

NOTE(S):

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

J Estimated result. Result is less than RL.

STL Knoxville - ACS

Method Blank Report

GC/MS Volatiles

Lot-Sample #: H6D040000-386 B **Work Order #:** H2KWV1AA **Matrix:** SOLID

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT	RETENTION TIME	UNITS
None				ug/kg

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: H6D030205 **Work Order #...:** H2KWV1AC **Matrix.....:** SOLID
LCS Lot-Sample#: H6D040000-386
Prep Date.....: 04/04/06 **Analysis Date..:** 04/04/06
Prep Batch #...: 6094386
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Acetone	54	(30 - 168)	SW846 8260B
Acrylonitrile	104	(50 - 130)	SW846 8260B
Benzene	**99**	**(80 - 120)**	**SW846 8260B**
Bromobenzene	92	(79 - 129)	SW846 8260B
Bromochloromethane	92	(80 - 120)	SW846 8260B
Bromodichloromethane	89	(65 - 129)	SW846 8260B
Bromoform	90	(49 - 130)	SW846 8260B
Bromomethane	85	(30 - 120)	SW846 8260B
2-Butanone	49	(31 - 143)	SW846 8260B
n-Butylbenzene	128	(68 - 155)	SW846 8260B
sec-Butylbenzene	104	(77 - 148)	SW846 8260B
tert-Butylbenzene	100	(80 - 138)	SW846 8260B
Carbon disulfide	97	(41 - 141)	SW846 8260B
Carbon tetrachloride	97	(41 - 151)	SW846 8260B
Chlorobenzene	**101**	**(73 - 127)**	**SW846 8260B**
Chlorodibromomethane	89	(64 - 137)	SW846 8260B
Chloroethane	33	(30 - 120)	SW846 8260B
Chloroform	97	(77 - 125)	SW846 8260B
Chloromethane	98	(30 - 125)	SW846 8260B
2-Chlorotoluene	101	(77 - 140)	SW846 8260B
4-Chlorotoluene	100	(80 - 141)	SW846 8260B
1,2-Dibromo-3-chloro-propane	88	(64 - 124)	SW846 8260B
1,2-Dibromoethane	86	(75 - 134)	SW846 8260B
Dibromomethane	85	(75 - 124)	SW846 8260B
1,2-Dichlorobenzene	102	(78 - 127)	SW846 8260B
1,3-Dichlorobenzene	103	(80 - 125)	SW846 8260B
1,4-Dichlorobenzene	103	(80 - 125)	SW846 8260B
Dichlorodifluoromethane	67	(40 - 122)	SW846 8260B
1,1-Dichloroethane	91	(68 - 129)	SW846 8260B
1,2-Dichloroethane	94	(77 - 120)	SW846 8260B
cis-1,2-Dichloroethene	94	(75 - 123)	SW846 8260B
trans-1,2-Dichloroethene	95	(53 - 135)	SW846 8260B
1,1-Dichloroethene	**98**	**(56 - 134)**	**SW846 8260B**

(Continued on next page)

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: H6D030205 **Work Order #...:** H2KWV1AC **Matrix.....:** SOLID
LCS Lot-Sample#: H6D040000-386

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
1,2-Dichloropropane	93	(68 - 120)	SW846 8260B
1,3-Dichloropropane	93	(80 - 130)	SW846 8260B
2,2-Dichloropropane	85	(51 - 149)	SW846 8260B
cis-1,3-Dichloropropene	94	(73 - 138)	SW846 8260B
trans-1,3-Dichloropropene	93	(63 - 152)	SW846 8260B
1,1-Dichloropropene	94	(66 - 130)	SW846 8260B
Ethylbenzene	104	(76 - 128)	SW846 8260B
Hexachlorobutadiene	110	(59 - 151)	SW846 8260B
2-Hexanone	50	(34 - 128)	SW846 8260B
Isopropylbenzene	104	(74 - 130)	SW846 8260B
p-Isopropyltoluene	106	(79 - 137)	SW846 8260B
Methylene chloride	94	(30 - 161)	SW846 8260B
4-Methyl-2-pentanone	50	(34 - 127)	SW846 8260B
Naphthalene	92	(63 - 149)	SW846 8260B
n-Propylbenzene	103	(77 - 151)	SW846 8260B
Styrene	98	(69 - 133)	SW846 8260B
1,1,1,2-Tetrachloroethane	93	(70 - 134)	SW846 8260B
1,1,2,2-Tetrachloroethane	93	(66 - 130)	SW846 8260B
Tetrachloroethene	97	(75 - 135)	SW846 8260B
Toluene	**99**	**(80 - 127)**	**SW846 8260B**
1,2,3-Trichlorobenzene	106	(75 - 133)	SW846 8260B
1,2,4-Trichloro-benzene	103	(74 - 138)	SW846 8260B
1,1,1-Trichloroethane	91	(55 - 135)	SW846 8260B
1,1,2-Trichloroethane	88	(77 - 124)	SW846 8260B
Trichloroethene	**94**	**(73 - 122)**	**SW846 8260B**
Trichlorofluoromethane	116	(30 - 120)	SW846 8260B
1,2,3-Trichloropropane	87	(56 - 143)	SW846 8260B
1,2,4-Trimethylbenzene	101	(79 - 143)	SW846 8260B
1,3,5-Trimethylbenzene	102	(80 - 148)	SW846 8260B
Vinyl chloride	103	(57 - 130)	SW846 8260B
m-Xylene & p-Xylene	99	(75 - 132)	SW846 8260B
o-Xylene	116	(68 - 133)	SW846 8260B
Xylenes (total)	105	(75 - 132)	SW846 8260B

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LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: H6D030205 **Work Order #...:** H2KWV1AC **Matrix.....:** SOLID
LCS Lot-Sample#: H6D040000-386

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	89	(42 - 138)
1,2-Dichloroethane-d4	88	(38 - 144)
Toluene-d8	92	(52 - 137)
Bromofluorobenzene	93	(54 - 151)

NOTE(S):

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

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: H6D030205 **Work Order #...:** H2KWV1AC **Matrix.....:** SOLID
LCS Lot-Sample#: H6D040000-386
Prep Date.....: 04/04/06 **Analysis Date..:** 04/04/06
Prep Batch #...: 6094386
Dilution Factor: 1

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
Acetone	10000	5380	ug/kg	54	SW846 8260B
Acrylonitrile	50000	51800	ug/kg	104	SW846 8260B
Benzene	**2500**	**2480**	**ug/kg**	**99**	**SW846 8260B**
Bromobenzene	2500	2300	ug/kg	92	SW846 8260B
Bromochloromethane	2500	2300	ug/kg	92	SW846 8260B
Bromodichloromethane	2500	2230	ug/kg	89	SW846 8260B
Bromoform	2500	2250	ug/kg	90	SW846 8260B
Bromomethane	2500	2120	ug/kg	85	SW846 8260B
2-Butanone	10000	4850	ug/kg	49	SW846 8260B
n-Butylbenzene	2500	3200	ug/kg	128	SW846 8260B
sec-Butylbenzene	2500	2600	ug/kg	104	SW846 8260B
tert-Butylbenzene	2500	2500	ug/kg	100	SW846 8260B
Carbon disulfide	2500	2420	ug/kg	97	SW846 8260B
Carbon tetrachloride	2500	2410	ug/kg	97	SW846 8260B
Chlorobenzene	**2500**	**2530**	**ug/kg**	**101**	**SW846 8260B**
Chlorodibromomethane	2500	2230	ug/kg	89	SW846 8260B
Chloroethane	2500	837	ug/kg	33	SW846 8260B
Chloroform	2500	2410	ug/kg	97	SW846 8260B
Chloromethane	2500	2450	ug/kg	98	SW846 8260B
2-Chlorotoluene	2500	2520	ug/kg	101	SW846 8260B
4-Chlorotoluene	2500	2490	ug/kg	100	SW846 8260B
1,2-Dibromo-3-chloro-propane	2500	2200	ug/kg	88	SW846 8260B
1,2-Dibromoethane	2500	2160	ug/kg	86	SW846 8260B
Dibromomethane	2500	2130	ug/kg	85	SW846 8260B
1,2-Dichlorobenzene	2500	2550	ug/kg	102	SW846 8260B
1,3-Dichlorobenzene	2500	2560	ug/kg	103	SW846 8260B
1,4-Dichlorobenzene	2500	2570	ug/kg	103	SW846 8260B
Dichlorodifluoromethane	2500	1670	ug/kg	67	SW846 8260B
1,1-Dichloroethane	2500	2280	ug/kg	91	SW846 8260B
1,2-Dichloroethane	2500	2340	ug/kg	94	SW846 8260B
cis-1,2-Dichloroethene	2500	2360	ug/kg	94	SW846 8260B
trans-1,2-Dichloroethene	2500	2370	ug/kg	95	SW846 8260B
1,1-Dichloroethene	**2500**	**2450**	**ug/kg**	**98**	**SW846 8260B**

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LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: H6D030205 **Work Order #...:** H2KWV1AC **Matrix.....:** SOLID
LCS Lot-Sample#: H6D040000-386

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
1,2-Dichloropropane	2500	2320	ug/kg	93	SW846 8260B
1,3-Dichloropropane	2500	2330	ug/kg	93	SW846 8260B
2,2-Dichloropropane	2500	2120	ug/kg	85	SW846 8260B
cis-1,3-Dichloropropene	2500	2340	ug/kg	94	SW846 8260B
trans-1,3-Dichloropropene	2500	2330	ug/kg	93	SW846 8260B
1,1-Dichloropropene	2500	2340	ug/kg	94	SW846 8260B
Ethylbenzene	2500	2590	ug/kg	104	SW846 8260B
Hexachlorobutadiene	2500	2740	ug/kg	110	SW846 8260B
2-Hexanone	10000	5010	ug/kg	50	SW846 8260B
Isopropylbenzene	2500	2600	ug/kg	104	SW846 8260B
p-Isopropyltoluene	2500	2640	ug/kg	106	SW846 8260B
Methylene chloride	2500	2350	ug/kg	94	SW846 8260B
4-Methyl-2-pentanone	10000	5000	ug/kg	50	SW846 8260B
Naphthalene	2500	2310	ug/kg	92	SW846 8260B
n-Propylbenzene	2500	2580	ug/kg	103	SW846 8260B
Styrene	2500	2450	ug/kg	98	SW846 8260B
1,1,1,2-Tetrachloroethane	2500	2330	ug/kg	93	SW846 8260B
1,1,2,2-Tetrachloroethane	2500	2320	ug/kg	93	SW846 8260B
Tetrachloroethene	2500	2430	ug/kg	97	SW846 8260B
Toluene	**2500**	**2480**	**ug/kg**	**99**	**SW846 8260B**
1,2,3-Trichlorobenzene	2500	2650	ug/kg	106	SW846 8260B
1,2,4-Trichloro-benzene	2500	2570	ug/kg	103	SW846 8260B
1,1,1-Trichloroethane	2500	2270	ug/kg	91	SW846 8260B
1,1,2-Trichloroethane	2500	2200	ug/kg	88	SW846 8260B
Trichloroethene	**2500**	**2350**	**ug/kg**	**94**	**SW846 8260B**
Trichlorofluoromethane	2500	2890	ug/kg	116	SW846 8260B
1,2,3-Trichloropropane	2500	2180	ug/kg	87	SW846 8260B
1,2,4-Trimethylbenzene	2500	2530	ug/kg	101	SW846 8260B
1,3,5-Trimethylbenzene	2500	2560	ug/kg	102	SW846 8260B
Vinyl chloride	2500	2570	ug/kg	103	SW846 8260B
m-Xylene & p-Xylene	5000	4940	ug/kg	99	SW846 8260B
o-Xylene	2500	2900	ug/kg	116	SW846 8260B
Xylenes (total)	7500	7840	ug/kg	105	SW846 8260B

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LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: H6D030205 **Work Order #...:** H2KWV1AC **Matrix.....:** SOLID
LCS Lot-Sample#: H6D040000-386

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	89	(42 - 138)
1,2-Dichloroethane-d4	88	(38 - 144)
Toluene-d8	92	(52 - 137)
Bromofluorobenzene	93	(54 - 151)

NOTE(S):

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

Bold print denotes control parameters

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: H6D030205 **Work Order #...:** H2HN31AC-MS **Matrix.....:** SOLID
MS Lot-Sample #: H6D030205-001 H2HN31AD-MSD
Date Sampled...: 03/28/06 **Date Received..:** 04/02/06
Prep Date.....: 04/04/06 **Analysis Date..:** 04/04/06
Prep Batch #...: 6094386
Dilution Factor: 5 **% Moisture.....:** 100

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Acetone	60	(30 - 168)			SW846 8260B
	39	(30 - 168)	25	(0-38)	SW846 8260B
Acrylonitrile	31 a	(50 - 130)			SW846 8260B
	34 a	(50 - 130)	10	(0-30)	SW846 8260B
Benzene	**0.0 a**	**(80 - 120)**			**SW846 8260B**
	0.0 a	**(80 - 120)**	**0.0**	**(0-20)**	**SW846 8260B**
Bromobenzene	0.0	(79 - 129)			SW846 8260B
	0.0	(79 - 129)	0.0	(0-35)	SW846 8260B
Bromochloromethane	15 a	(80 - 120)			SW846 8260B
	15 a	(80 - 120)	3.6	(0-21)	SW846 8260B
Bromodichloromethane	8.4 a	(65 - 129)			SW846 8260B
	8.9 a	(65 - 129)	6.1	(0-20)	SW846 8260B
Bromoform	0.0	(49 - 130)			SW846 8260B
	0.0	(49 - 130)	0.0	(0-29)	SW846 8260B
Bromomethane	4.7 a	(30 - 120)			SW846 8260B
	14 a	(30 - 120)	24	(0-44)	SW846 8260B
2-Butanone	59	(31 - 143)			SW846 8260B
	60	(31 - 143)	0.48	(0-39)	SW846 8260B
n-Butylbenzene	0.0	(68 - 155)			SW846 8260B
	0.0	(68 - 155)	0.0	(0-28)	SW846 8260B
sec-Butylbenzene	0.0	(77 - 148)			SW846 8260B
	0.0	(77 - 148)	0.0	(0-29)	SW846 8260B
tert-Butylbenzene	0.0	(80 - 138)			SW846 8260B
	0.0	(80 - 138)	0.0	(0-30)	SW846 8260B
Carbon disulfide	5.4 a	(41 - 141)			SW846 8260B
	6.1 a	(41 - 141)	13	(0-29)	SW846 8260B
Carbon tetrachloride	7.8 a	(41 - 151)			SW846 8260B
	9.5 a	(41 - 151)	19	(0-20)	SW846 8260B
Chlorobenzene	**0.0**	**(73 - 127)**			**SW846 8260B**
	0.0	**(73 - 127)**	**0.0**	**(0-22)**	**SW846 8260B**
Chlorodibromomethane	0.0	(64 - 137)			SW846 8260B
	0.0	(64 - 137)	0.0	(0-23)	SW846 8260B
Chloroethane	28 a	(30 - 120)			SW846 8260B
	40	(30 - 120)	35	(0-41)	SW846 8260B
Chloroform	6.5 a	(77 - 125)			SW846 8260B
	13 a	(77 - 125)	7.0	(0-21)	SW846 8260B
Chloromethane	35	(30 - 125)			SW846 8260B
	42	(30 - 125)	17	(0-41)	SW846 8260B
2-Chlorotoluene	0.0	(77 - 140)			SW846 8260B
	0.0	(77 - 140)	0.0	(0-32)	SW846 8260B

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MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: H6D030205 **Work Order #...:** H2HN31AC-MS **Matrix.....:** SOLID
MS Lot-Sample #: H6D030205-001 H2HN31AD-MSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
4-Chlorotoluene	0.0	(80 - 141)			SW846 8260B
	0.0	(80 - 141)	0.0	(0-31)	SW846 8260B
1,2-Dibromo-3-chloro-propane	5.3 a	(64 - 124)			SW846 8260B
	0.0	(64 - 124)	200	(0-48)	SW846 8260B
1,2-Dibromoethane	0.0	(75 - 134)			SW846 8260B
	0.0	(75 - 134)	0.0	(0-23)	SW846 8260B
Dibromomethane	8.5 a	(75 - 124)			SW846 8260B
	11 a,p	(75 - 124)	28	(0-20)	SW846 8260B
1,2-Dichlorobenzene	0.0	(78 - 127)			SW846 8260B
	0.0	(78 - 127)	0.0	(0-31)	SW846 8260B
1,3-Dichlorobenzene	0.0	(80 - 125)			SW846 8260B
	0.0	(80 - 125)	0.0	(0-31)	SW846 8260B
1,4-Dichlorobenzene	0.0	(80 - 125)			SW846 8260B
	0.0	(80 - 125)	0.0	(0-30)	SW846 8260B
Dichlorodifluoromethane	23 a	(40 - 122)			SW846 8260B
	29 a	(40 - 122)	22	(0-50)	SW846 8260B
1,1-Dichloroethane	15 a	(68 - 129)			SW846 8260B
	17 a	(68 - 129)	11	(0-21)	SW846 8260B
1,2-Dichloroethane	32 a	(77 - 120)			SW846 8260B
	26 a	(77 - 120)	11	(0-21)	SW846 8260B
cis-1,2-Dichloroethene	7.7 a	(75 - 123)			SW846 8260B
	13 a,p	(75 - 123)	21	(0-20)	SW846 8260B
trans-1,2-Dichloroethene	0.0	(53 - 135)			SW846 8260B
	5.1 a,p	(53 - 135)	200	(0-26)	SW846 8260B
1,1-Dichloroethene	**4.0 a**	**(56 - 134)**			**SW846 8260B**
	7.3 a	**(56 - 134)**	**13**	**(0-23)**	**SW846 8260B**
1,2-Dichloropropane	8.6 a	(68 - 120)			SW846 8260B
	64 a,p	(68 - 120)	152	(0-20)	SW846 8260B
1,3-Dichloropropane	6.6 a	(80 - 130)			SW846 8260B
	7.8 a	(80 - 130)	17	(0-44)	SW846 8260B
2,2-Dichloropropane	0.0	(51 - 149)			SW846 8260B
	0.0	(51 - 149)	0.0	(0-20)	SW846 8260B
cis-1,3-Dichloropropene	0.0	(73 - 138)			SW846 8260B
	0.0	(73 - 138)	0.0	(0-20)	SW846 8260B
trans-1,3-Dichloropropene	0.0	(63 - 152)			SW846 8260B
	5.7 a,p	(63 - 152)	200	(0-26)	SW846 8260B
1,1-Dichloropropene	0.0	(66 - 130)			SW846 8260B
	0.0	(66 - 130)	0.0	(0-20)	SW846 8260B
Ethylbenzene	8.4 a	(76 - 128)			SW846 8260B
	0.0	(76 - 128)	200	(0-20)	SW846 8260B

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MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: H6D030205 **Work Order #...:** H2HN31AC-MS **Matrix.....:** SOLID
MS Lot-Sample #: H6D030205-001 H2HN31AD-MSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Hexachlorobutadiene	0.0	(59 - 151)			SW846 8260B
	0.0	(59 - 151)	0.0	(0-37)	SW846 8260B
2-Hexanone	0.0	(34 - 128)			SW846 8260B
	0.0	(34 - 128)	0.0	(0-39)	SW846 8260B
Isopropylbenzene	0.0	(74 - 130)			SW846 8260B
	0.0	(74 - 130)	0.0	(0-22)	SW846 8260B
p-Isopropyltoluene	0.0	(79 - 137)			SW846 8260B
	0.0	(79 - 137)	0.0	(0-28)	SW846 8260B
Methylene chloride	26 a	(30 - 161)			SW846 8260B
	49 p	(30 - 161)	44	(0-28)	SW846 8260B
4-Methyl-2-pentanone	7.8 a	(34 - 127)			SW846 8260B
	9.0 a	(34 - 127)	15	(0-37)	SW846 8260B
Naphthalene	8.5 a	(63 - 149)			SW846 8260B
	0.0	(63 - 149)	200	(0-36)	SW846 8260B
n-Propylbenzene	0.0	(77 - 151)			SW846 8260B
	0.0	(77 - 151)	0.0	(0-30)	SW846 8260B
Styrene	0.0	(69 - 133)			SW846 8260B
	0.0	(69 - 133)	0.0	(0-23)	SW846 8260B
1,1,1,2-Tetrachloroethane	0.0	(70 - 134)			SW846 8260B
	0.0	(70 - 134)	0.0	(0-24)	SW846 8260B
1,1,2,2-Tetrachloroethane	0.0	(66 - 130)			SW846 8260B
	0.0	(66 - 130)	0.0	(0-40)	SW846 8260B
Tetrachloroethene	0.0 a	(75 - 135)			SW846 8260B
	0.0 a	(75 - 135)	0.0	(0-23)	SW846 8260B
Toluene	**9.9 a**	**(80 - 127)**			**SW846 8260B**
	1.3 a,p	**(80 - 127)**	**47**	**(0-24)**	**SW846 8260B**
1,2,3-Trichlorobenzene	0.0	(75 - 133)			SW846 8260B
	0.0	(75 - 133)	0.0	(0-33)	SW846 8260B
1,2,4-Trichloro-benzene	0.0	(74 - 138)			SW846 8260B
	0.0	(74 - 138)	0.0	(0-32)	SW846 8260B
1,1,1-Trichloroethane	18 a	(55 - 135)			SW846 8260B
	6.5 a	(55 - 135)	4.9	(0-20)	SW846 8260B
1,1,2-Trichloroethane	15 a	(77 - 124)			SW846 8260B
	10 a,p	(77 - 124)	37	(0-23)	SW846 8260B
Trichloroethene	**0.0 a**	**(73 - 122)**			**SW846 8260B**
	0.0 a	**(73 - 122)**	**0.0**	**(0-20)**	**SW846 8260B**
Trichlorofluoromethane	25 a	(30 - 120)			SW846 8260B
	33	(30 - 120)	26	(0-40)	SW846 8260B
1,2,3-Trichloropropane	0.0	(56 - 143)			SW846 8260B
	0.0	(56 - 143)	0.0	(0-48)	SW846 8260B

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MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: H6D030205 **Work Order #...:** H2HN31AC-MS **Matrix.....:** SOLID
MS Lot-Sample #: H6D030205-001 H2HN31AD-MSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
1,2,4-Trimethylbenzene	0.0	(79 - 143)			SW846 8260B
	0.0	(79 - 143)	0.0	(0-27)	SW846 8260B
1,3,5-Trimethylbenzene	0.0	(80 - 148)			SW846 8260B
	0.0	(80 - 148)	0.0	(0-30)	SW846 8260B
Vinyl chloride	21 a	(57 - 130)			SW846 8260B
	27 a	(57 - 130)	27	(0-35)	SW846 8260B
m-Xylene & p-Xylene	0.0	(75 - 132)			SW846 8260B
	0.0	(75 - 132)	0.0	(0-20)	SW846 8260B
o-Xylene	0.0	(68 - 133)			SW846 8260B
	0.0	(68 - 133)	0.0	(0-20)	SW846 8260B
Xylenes (total)	0.0	(75 - 132)			SW846 8260B
	0.0	(75 - 132)	0.0	(0-20)	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	1.5 *	(42 - 138)
	1.7 *	(42 - 138)
1,2-Dichloroethane-d4	1.7 *	(38 - 144)
	1.7 *	(38 - 144)
Toluene-d8	0.070 *	(52 - 137)
	0.13 *	(52 - 137)
Bromofluorobenzene	0.29 *	(54 - 151)
	0.19 *	(54 - 151)

NOTE(S):

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

Bold print denotes control parameters

* Surrogate recovery is outside stated control limits.

Results and reporting limits have been adjusted for dry weight.

a Spiked analyte recovery is outside stated control limits.

p Relative percent difference (RPD) is outside stated control limits.

MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: H6D030205 **Work Order #...:** H2HN31AC-MS **Matrix.....:** SOLID
MS Lot-Sample #: H6D030205-001 H2HN31AD-MSD
Date Sampled...: 03/28/06 **Date Received..:** 04/02/06
Prep Date.....: 04/04/06 **Analysis Date..:** 04/04/06
Prep Batch #...: 6094386
Dilution Factor: 5 **% Moisture.....:** 100

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
Acetone	3500	9960	9480	ug/kg	60		SW846 8260B
	3500	9980	7410	ug/kg	39	25	SW846 8260B
Acrylonitrile	ND	49800	15500	ug/kg	31 a		SW846 8260B
	ND	49900	17200	ug/kg	34 a	10	SW846 8260B
Benzene	**3800**	**2490**	**1900**	**ug/kg**	**0.0 a**		**SW846 8260B**
	3800	**2500**	**1600**	**ug/kg**	**0.0 a**	**0.0**	**SW846 8260B**
Bromobenzene	ND	2490		ug/kg	0.0		SW846 8260B
	ND	2500		ug/kg	0.0	0.0	SW846 8260B
Bromochloromethane	ND	2490	368	ug/kg	15 a		SW846 8260B
	ND	2500	382	ug/kg	15 a	3.6	SW846 8260B
Bromodichloromethane	ND	2490	209	ug/kg	8.4 a		SW846 8260B
	ND	2500	222	ug/kg	8.9 a	6.1	SW846 8260B
Bromoform	ND	2490		ug/kg	0.0		SW846 8260B
	ND	2500		ug/kg	0.0	0.0	SW846 8260B
Bromomethane	740	2490	856	ug/kg	4.7 a		SW846 8260B
	740	2500	1090	ug/kg	14 a	24	SW846 8260B
2-Butanone	14000	9960	19700	ug/kg	59		SW846 8260B
	14000	9980	19800	ug/kg	60	0.48	SW846 8260B
n-Butylbenzene	ND	2490		ug/kg	0.0		SW846 8260B
	ND	2500		ug/kg	0.0	0.0	SW846 8260B
sec-Butylbenzene	ND	2490		ug/kg	0.0		SW846 8260B
	ND	2500		ug/kg	0.0	0.0	SW846 8260B
tert-Butylbenzene	ND	2490		ug/kg	0.0		SW846 8260B
	ND	2500		ug/kg	0.0	0.0	SW846 8260B
Carbon disulfide	ND	2490		ug/kg	5.4 a		SW846 8260B
	ND	2500	153	ug/kg	6.1 a	13	SW846 8260B
Carbon tetrachloride	ND	2490	194	ug/kg	7.8 a		SW846 8260B
	ND	2500	236	ug/kg	9.5 a	19	SW846 8260B
Chlorobenzene	**ND**	**2490**		**ug/kg**	**0.0**		**SW846 8260B**
	ND	**2500**		**ug/kg**	**0.0**	**0.0**	**SW846 8260B**
Chlorodibromomethane	ND	2490		ug/kg	0.0		SW846 8260B
	ND	2500		ug/kg	0.0	0.0	SW846 8260B
Chloroethane	ND	2490	690	ug/kg	28 a		SW846 8260B
	ND	2500	986	ug/kg	40	35	SW846 8260B
Chloroform	1900	2490	2110	ug/kg	6.5 a		SW846 8260B
	1900	2500	2260	ug/kg	13 a	7.0	SW846 8260B
Chloromethane	ND	2490		ug/kg	35		SW846 8260B
	ND	2500		ug/kg	42	17	SW846 8260B
2-Chlorotoluene	ND	2490		ug/kg	0.0		SW846 8260B
	ND	2500		ug/kg	0.0	0.0	SW846 8260B

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MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: H6D030205 **Work Order #...:** H2HN31AC-MS **Matrix.....:** SOLID
MS Lot-Sample #: H6D030205-001 H2HN31AD-MSD

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
4-Chlorotoluene	ND	2490		ug/kg	0.0		SW846 8260B
	ND	2500		ug/kg	0.0	0.0	SW846 8260B
1,2-Dibromo-3-chloro-propane	ND	2490		ug/kg	5.3 a		SW846 8260B
	ND	2500		ug/kg	0.0	200	SW846 8260B
1,2-Dibromoethane	ND	2490		ug/kg	0.0		SW846 8260B
	ND	2500		ug/kg	0.0	0.0	SW846 8260B
Dibromomethane	ND	2490	213	ug/kg	8.5 a		SW846 8260B
	ND	2500	283	ug/kg	11 a,p	28	SW846 8260B
1,2-Dichlorobenzene	ND	2490		ug/kg	0.0		SW846 8260B
	ND	2500		ug/kg	0.0	0.0	SW846 8260B
1,3-Dichlorobenzene	ND	2490		ug/kg	0.0		SW846 8260B
	ND	2500		ug/kg	0.0	0.0	SW846 8260B
1,4-Dichlorobenzene	ND	2490		ug/kg	0.0		SW846 8260B
	ND	2500		ug/kg	0.0	0.0	SW846 8260B
Dichlorodifluoromethane	ND	2490	582	ug/kg	23 a		SW846 8260B
	ND	2500	724	ug/kg	29 a	22	SW846 8260B
1,1-Dichloroethane	150	2490	513	ug/kg	15 a		SW846 8260B
	150	2500	571	ug/kg	17 a	11	SW846 8260B
1,2-Dichloroethane	600	2490	1400	ug/kg	32 a		SW846 8260B
	600	2500	1260	ug/kg	26 a	11	SW846 8260B
cis-1,2-Dichloroethene	320	2490	508	ug/kg	7.7 a		SW846 8260B
	320	2500	630	ug/kg	13 a,p	21	SW846 8260B
trans-1,2-Dichloroethene	ND	2490		ug/kg	0.0		SW846 8260B
	ND	2500		ug/kg	5.1	200	SW846 8260B
	Qualifiers: a,p						
1,1-Dichloroethene	**500**	**2490**	**605**	**ug/kg**	**4.0 a**		**SW846 8260B**
	500	**2500**	**687**	**ug/kg**	**7.3 a**	**13**	**SW846 8260B**
1,2-Dichloropropane	ND	2490	215	ug/kg	8.6 a		SW846 8260B
	ND	2500	1590	ug/kg	64 a,p	152	SW846 8260B
1,3-Dichloropropane	ND	2490		ug/kg	6.6 a		SW846 8260B
	ND	2500		ug/kg	7.8 a	17	SW846 8260B
2,2-Dichloropropane	ND	2490		ug/kg	0.0		SW846 8260B
	ND	2500		ug/kg	0.0	0.0	SW846 8260B
cis-1,3-Dichloropropene	ND	2490		ug/kg	0.0		SW846 8260B
	ND	2500		ug/kg	0.0	0.0	SW846 8260B
trans-1,3-Dichloropropene	ND	2490		ug/kg	0.0		SW846 8260B
	ND	2500		ug/kg	5.7	200	SW846 8260B
	Qualifiers: a,p						
1,1-Dichloropropene	ND	2490		ug/kg	0.0		SW846 8260B
	ND	2500		ug/kg	0.0	0.0	SW846 8260B

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MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: H6D030205 **Work Order #...:** H2HN31AC-MS **Matrix.....:** SOLID
MS Lot-Sample #: H6D030205-001 H2HN31AD-MSD

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
Ethylbenzene	ND	2490		ug/kg	8.4 a		SW846 8260B
	ND	2500		ug/kg	0.0	200	SW846 8260B
Hexachlorobutadiene	ND	2490		ug/kg	0.0		SW846 8260B
	ND	2500		ug/kg	0.0	0.0	SW846 8260B
2-Hexanone	ND	9960		ug/kg	0.0		SW846 8260B
	ND	9980		ug/kg	0.0	0.0	SW846 8260B
Isopropylbenzene	ND	2490		ug/kg	0.0		SW846 8260B
	ND	2500		ug/kg	0.0	0.0	SW846 8260B
p-Isopropyltoluene	ND	2490		ug/kg	0.0		SW846 8260B
	ND	2500		ug/kg	0.0	0.0	SW846 8260B
Methylene chloride	ND	2490	1010	ug/kg	26 a		SW846 8260B
	ND	2500	1580	ug/kg	49 p	44	SW846 8260B
4-Methyl-2-pentanone	ND	9960		ug/kg	7.8 a		SW846 8260B
	ND	9980	902	ug/kg	9.0 a	15	SW846 8260B
Naphthalene	ND	2490		ug/kg	8.5 a		SW846 8260B
	ND	2500		ug/kg	0.0	200	SW846 8260B
n-Propylbenzene	ND	2490		ug/kg	0.0		SW846 8260B
	ND	2500		ug/kg	0.0	0.0	SW846 8260B
Styrene	ND	2490		ug/kg	0.0		SW846 8260B
	ND	2500		ug/kg	0.0	0.0	SW846 8260B
1,1,1,2-Tetrachloroethane	ND	2490		ug/kg	0.0		SW846 8260B
	ND	2500		ug/kg	0.0	0.0	SW846 8260B
1,1,2,2-Tetrachloroethane	ND	2490		ug/kg	0.0		SW846 8260B
	ND	2500		ug/kg	0.0	0.0	SW846 8260B
Tetrachloroethene	1600	2490	982	ug/kg	0.0 a		SW846 8260B
	1600	2500	511	ug/kg	0.0 a	0.0	SW846 8260B
Toluene	**320**	**2490**	**567**	**ug/kg**	**9.9 a**		**SW846 8260B**
	320	**2500**	**352**	**ug/kg**	**1.3**	**47**	**SW846 8260B**
	Qualifiers: a,p						
1,2,3-Trichlorobenzene	ND	2490		ug/kg	0.0		SW846 8260B
	ND	2500		ug/kg	0.0	0.0	SW846 8260B
1,2,4-Trichloro-benzene	ND	2490		ug/kg	0.0		SW846 8260B
	ND	2500		ug/kg	0.0	0.0	SW846 8260B
1,1,1-Trichloroethane	5600	2490	6080	ug/kg	18 a		SW846 8260B
	5600	2500	5790	ug/kg	6.5 a	4.9	SW846 8260B
1,1,2-Trichloroethane	ND	2490	369	ug/kg	15 a		SW846 8260B
	ND	2500	254	ug/kg	10 a,p	37	SW846 8260B
Trichloroethene	**43000**	**2490**	**21400**	**ug/kg**	**0.0 a**		**SW846 8260B**
	43000	**2500**	**22200**	**ug/kg**	**0.0 a**	**0.0**	**SW846 8260B**
Trichlorofluoromethane	ND	2490	624	ug/kg	25 a		SW846 8260B
	ND	2500	812	ug/kg	33	26	SW846 8260B

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MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: H6D030205 **Work Order #...:** H2HN31AC-MS **Matrix.....:** SOLID
MS Lot-Sample #: H6D030205-001 H2HN31AD-MSD

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
1,2,3-Trichloropropane	ND	2490		ug/kg	0.0		SW846 8260B
	ND	2500		ug/kg	0.0	0.0	SW846 8260B
1,2,4-Trimethylbenzene	ND	2490		ug/kg	0.0		SW846 8260B
	ND	2500		ug/kg	0.0	0.0	SW846 8260B
1,3,5-Trimethylbenzene	ND	2490		ug/kg	0.0		SW846 8260B
	ND	2500		ug/kg	0.0	0.0	SW846 8260B
Vinyl chloride	ND	2490	513	ug/kg	21 a		SW846 8260B
	ND	2500	672	ug/kg	27 a	27	SW846 8260B
m-Xylene & p-Xylene	ND	4980		ug/kg	0.0		SW846 8260B
	ND	4990		ug/kg	0.0	0.0	SW846 8260B
o-Xylene	ND	2490		ug/kg	0.0		SW846 8260B
	ND	2500		ug/kg	0.0	0.0	SW846 8260B
Xylenes (total)	ND	7470		ug/kg	0.0		SW846 8260B
	ND	7480		ug/kg	0.0	0.0	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	1.5 *	(42 - 138)
	1.7 *	(42 - 138)
1,2-Dichloroethane-d4	1.7 *	(38 - 144)
	1.7 *	(38 - 144)
Toluene-d8	0.070 *	(52 - 137)
	0.13 *	(52 - 137)
Bromofluorobenzene	0.29 *	(54 - 151)
	0.19 *	(54 - 151)

NOTE(S):

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

Bold print denotes control parameters

* Surrogate recovery is outside stated control limits.

Results and reporting limits have been adjusted for dry weight.

a Spiked analyte recovery is outside stated control limits.

p Relative percent difference (RPD) is outside stated control limits.

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: H6D030205 **Work Order #...:** H2MQQ1AA **Matrix.....:** WATER
MB Lot-Sample #: H6D050000-253

Prep Date.....: 04/05/06
Analysis Date..: 04/05/06 **Prep Batch #...:** 6095253
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Acetone	ND	10	ug/L	SW846 8260B
Acrylonitrile	ND	20	ug/L	SW846 8260B
Benzene	ND	1.0	ug/L	SW846 8260B
Bromobenzene	ND	1.0	ug/L	SW846 8260B
Bromochloromethane	ND	1.0	ug/L	SW846 8260B
Bromodichloromethane	ND	1.0	ug/L	SW846 8260B
Bromoform	ND	1.0	ug/L	SW846 8260B
Bromomethane	ND	2.0	ug/L	SW846 8260B
2-Butanone	ND	5.0	ug/L	SW846 8260B
n-Butylbenzene	ND	1.0	ug/L	SW846 8260B
sec-Butylbenzene	ND	1.0	ug/L	SW846 8260B
tert-Butylbenzene	ND	1.0	ug/L	SW846 8260B
Carbon disulfide	ND	1.0	ug/L	SW846 8260B
Carbon tetrachloride	ND	1.0	ug/L	SW846 8260B
Chlorobenzene	ND	1.0	ug/L	SW846 8260B
Chlorodibromomethane	ND	1.0	ug/L	SW846 8260B
Chloroethane	ND	2.0	ug/L	SW846 8260B
Chloroform	ND	1.0	ug/L	SW846 8260B
Chloromethane	ND	2.0	ug/L	SW846 8260B
2-Chlorotoluene	ND	1.0	ug/L	SW846 8260B
4-Chlorotoluene	ND	1.0	ug/L	SW846 8260B
1,2-Dibromo-3-chloro-propane	ND	2.0	ug/L	SW846 8260B
1,2-Dibromoethane	ND	1.0	ug/L	SW846 8260B
Dibromomethane	ND	1.0	ug/L	SW846 8260B
1,2-Dichlorobenzene	ND	1.0	ug/L	SW846 8260B
1,3-Dichlorobenzene	ND	1.0	ug/L	SW846 8260B
1,4-Dichlorobenzene	ND	1.0	ug/L	SW846 8260B
Dichlorodifluoromethane	ND	2.0	ug/L	SW846 8260B
1,1-Dichloroethane	ND	1.0	ug/L	SW846 8260B
1,2-Dichloroethane	ND	1.0	ug/L	SW846 8260B
cis-1,2-Dichloroethene	ND	1.0	ug/L	SW846 8260B
trans-1,2-Dichloroethene	ND	1.0	ug/L	SW846 8260B
1,1-Dichloroethene	ND	1.0	ug/L	SW846 8260B
1,2-Dichloropropane	ND	1.0	ug/L	SW846 8260B
1,3-Dichloropropane	ND	1.0	ug/L	SW846 8260B
2,2-Dichloropropane	ND	1.0	ug/L	SW846 8260B
cis-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260B
trans-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260B
1,1-Dichloropropene	ND	1.0	ug/L	SW846 8260B
Ethylbenzene	ND	1.0	ug/L	SW846 8260B

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METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: H6D030205 **Work Order #...:** H2MQQ1AA **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Hexachlorobutadiene	ND	2.0	ug/L	SW846 8260B
2-Hexanone	ND	5.0	ug/L	SW846 8260B
Iodomethane	**0.55 J**	**2.0**	**ug/L**	**SW846 8260B**
Isopropylbenzene	ND	1.0	ug/L	SW846 8260B
p-Isopropyltoluene	ND	1.0	ug/L	SW846 8260B
Methylene chloride	ND	2.0	ug/L	SW846 8260B
4-Methyl-2-pentanone	ND	5.0	ug/L	SW846 8260B
Naphthalene	ND	1.0	ug/L	SW846 8260B
n-Propylbenzene	ND	1.0	ug/L	SW846 8260B
Styrene	ND	1.0	ug/L	SW846 8260B
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	SW846 8260B
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	SW846 8260B
Tetrachloroethene	ND	1.0	ug/L	SW846 8260B
Tetrahydrofuran	ND	4.0	ug/L	SW846 8260B
Toluene	ND	1.0	ug/L	SW846 8260B
1,2,3-Trichlorobenzene	**0.26 J**	**1.0**	**ug/L**	**SW846 8260B**
1,2,4-Trichloro-benzene	**0.15 J**	**1.0**	**ug/L**	**SW846 8260B**
1,1,1-Trichloroethane	ND	1.0	ug/L	SW846 8260B
1,1,2-Trichloroethane	ND	1.0	ug/L	SW846 8260B
Trichloroethene	ND	1.0	ug/L	SW846 8260B
Trichlorofluoromethane	ND	2.0	ug/L	SW846 8260B
1,2,3-Trichloropropane	ND	1.0	ug/L	SW846 8260B
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	1.0	ug/L	SW846 8260B
1,2,4-Trimethylbenzene	ND	1.0	ug/L	SW846 8260B
1,3,5-Trimethylbenzene	ND	1.0	ug/L	SW846 8260B
Vinyl acetate	ND	2.0	ug/L	SW846 8260B
Vinyl chloride	ND	1.0	ug/L	SW846 8260B
m-Xylene & p-Xylene	ND	1.0	ug/L	SW846 8260B
o-Xylene	ND	1.0	ug/L	SW846 8260B
Xylenes (total)	ND	1.0	ug/L	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	107	(79 - 120)
1,2-Dichloroethane-d4	105	(71 - 127)
Toluene-d8	104	(80 - 120)
Bromofluorobenzene	96	(69 - 126)

NOTE(S):

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

J Estimated result. Result is less than RL.

STL Knoxville - ACS

Method Blank Report

GC/MS Volatiles

Lot-Sample #: H6D050000-253 B **Work Order #:** H2MQQ1AA **Matrix:** WATER

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT	RETENTION TIME	UNITS
None				ug/L

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: H6D030205 **Work Order #...:** H2MQQ1AC **Matrix.....:** WATER
LCS Lot-Sample#: H6D050000-253
Prep Date.....: 04/05/06 **Analysis Date..:** 04/05/06
Prep Batch #...: 6095253
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Acetone	47 a	(49 - 141)	SW846 8260B
Benzene	**87**	**(80 - 121)**	**SW846 8260B**
Bromobenzene	94	(80 - 122)	SW846 8260B
Bromochloromethane	97	(75 - 124)	SW846 8260B
Bromodichloromethane	91	(73 - 127)	SW846 8260B
Bromoform	96	(63 - 141)	SW846 8260B
Bromomethane	96	(44 - 157)	SW846 8260B
2-Butanone	86	(61 - 139)	SW846 8260B
n-Butylbenzene	93	(62 - 128)	SW846 8260B
sec-Butylbenzene	94	(67 - 127)	SW846 8260B
tert-Butylbenzene	96	(68 - 123)	SW846 8260B
Carbon disulfide	89	(71 - 126)	SW846 8260B
Carbon tetrachloride	82	(66 - 133)	SW846 8260B
Chlorobenzene	**94**	**(80 - 121)**	**SW846 8260B**
Chlorodibromomethane	88	(71 - 132)	SW846 8260B
Chloroethane	99	(61 - 151)	SW846 8260B
Chloroform	93	(76 - 120)	SW846 8260B
Chloromethane	101	(56 - 140)	SW846 8260B
2-Chlorotoluene	90	(68 - 123)	SW846 8260B
4-Chlorotoluene	93	(68 - 125)	SW846 8260B
1,2-Dibromo-3-chloro-propane	83	(51 - 143)	SW846 8260B
1,2-Dibromoethane	90	(78 - 120)	SW846 8260B
Dibromomethane	91	(72 - 125)	SW846 8260B
1,2-Dichlorobenzene	91	(76 - 120)	SW846 8260B
1,3-Dichlorobenzene	92	(77 - 120)	SW846 8260B
1,4-Dichlorobenzene	92	(75 - 120)	SW846 8260B
Dichlorodifluoromethane	95	(48 - 147)	SW846 8260B
1,1-Dichloroethane	93	(70 - 127)	SW846 8260B
1,2-Dichloroethane	93	(71 - 125)	SW846 8260B
cis-1,2-Dichloroethene	91	(76 - 123)	SW846 8260B
trans-1,2-Dichloroethene	93	(75 - 124)	SW846 8260B
1,1-Dichloroethene	**100**	**(70 - 128)**	**SW846 8260B**
1,2-Dichloropropane	93	(77 - 122)	SW846 8260B

(Continued on next page)

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: H6D030205 **Work Order #...:** H2MQQ1AC **Matrix.....:** WATER
LCS Lot-Sample#: H6D050000-253

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
1,3-Dichloropropane	90	(78 - 120)	SW846 8260B
2,2-Dichloropropane	89	(48 - 149)	SW846 8260B
cis-1,3-Dichloropropene	90	(69 - 128)	SW846 8260B
trans-1,3-Dichloropropene	84	(61 - 132)	SW846 8260B
1,1-Dichloropropene	91	(78 - 122)	SW846 8260B
Ethylbenzene	94	(79 - 124)	SW846 8260B
Hexachlorobutadiene	98	(67 - 123)	SW846 8260B
2-Hexanone	93	(63 - 132)	SW846 8260B
Isopropylbenzene	96	(77 - 126)	SW846 8260B
p-Isopropyltoluene	96	(67 - 125)	SW846 8260B
Methylene chloride	88	(59 - 131)	SW846 8260B
4-Methyl-2-pentanone	91	(64 - 133)	SW846 8260B
Naphthalene	86	(48 - 141)	SW846 8260B
n-Propylbenzene	95	(67 - 128)	SW846 8260B
Styrene	93	(76 - 127)	SW846 8260B
1,1,1,2-Tetrachloroethane	84	(75 - 127)	SW846 8260B
1,1,2,2-Tetrachloroethane	94	(69 - 128)	SW846 8260B
Tetrachloroethene	94	(79 - 126)	SW846 8260B
Toluene	**93**	**(77 - 124)**	**SW846 8260B**
1,2,3-Trichlorobenzene	89	(63 - 127)	SW846 8260B
1,2,4-Trichloro-benzene	88	(64 - 126)	SW846 8260B
1,1,1-Trichloroethane	96	(71 - 125)	SW846 8260B
1,1,2-Trichloroethane	88	(74 - 120)	SW846 8260B
Trichloroethene	**96**	**(80 - 121)**	**SW846 8260B**
Trichlorofluoromethane	101	(67 - 143)	SW846 8260B
1,2,3-Trichloropropane	88	(67 - 124)	SW846 8260B
1,2,4-Trimethylbenzene	92	(69 - 121)	SW846 8260B
1,3,5-Trimethylbenzene	95	(71 - 125)	SW846 8260B
Vinyl chloride	102	(72 - 137)	SW846 8260B
m-Xylene & p-Xylene	98	(71 - 134)	SW846 8260B
o-Xylene	96	(76 - 126)	SW846 8260B
Xylenes (total)	97	(73 - 130)	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	110	(79 - 120)

(Continued on next page)

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: H6D030205 **Work Order #...:** H2MQQ1AC **Matrix.....:** WATER
LCS Lot-Sample#: H6D050000-253

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	102	(71 - 127)
Toluene-d8	104	(80 - 120)
Bromofluorobenzene	93	(69 - 126)

NOTE(S):

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

Bold print denotes control parameters

a Spiked analyte recovery is outside stated control limits.

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: H6D030205 **Work Order #...:** H2MQQ1AC **Matrix.....:** WATER
LCS Lot-Sample#: H6D050000-253
Prep Date.....: 04/05/06 **Analysis Date..:** 04/05/06
Prep Batch #...: 6095253
Dilution Factor: 1

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
Acetone	40.0	18.9 a	ug/L	47	SW846 8260B
Benzene	**10.0**	**8.71**	**ug/L**	**87**	**SW846 8260B**
Bromobenzene	10.0	9.44	ug/L	94	SW846 8260B
Bromochloromethane	10.0	9.75	ug/L	97	SW846 8260B
Bromodichloromethane	10.0	9.08	ug/L	91	SW846 8260B
Bromoform	10.0	9.64	ug/L	96	SW846 8260B
Bromomethane	10.0	9.58	ug/L	96	SW846 8260B
2-Butanone	40.0	34.5	ug/L	86	SW846 8260B
n-Butylbenzene	10.0	9.32	ug/L	93	SW846 8260B
sec-Butylbenzene	10.0	9.41	ug/L	94	SW846 8260B
tert-Butylbenzene	10.0	9.59	ug/L	96	SW846 8260B
Carbon disulfide	10.0	8.90	ug/L	89	SW846 8260B
Carbon tetrachloride	10.0	8.18	ug/L	82	SW846 8260B
Chlorobenzene	**10.0**	**9.44**	**ug/L**	**94**	**SW846 8260B**
Chlorodibromomethane	10.0	8.82	ug/L	88	SW846 8260B
Chloroethane	10.0	9.89	ug/L	99	SW846 8260B
Chloroform	10.0	9.30	ug/L	93	SW846 8260B
Chloromethane	10.0	10.1	ug/L	101	SW846 8260B
2-Chlorotoluene	10.0	8.98	ug/L	90	SW846 8260B
4-Chlorotoluene	10.0	9.35	ug/L	93	SW846 8260B
1,2-Dibromo-3-chloro-propane	10.0	8.34	ug/L	83	SW846 8260B
1,2-Dibromoethane	10.0	9.00	ug/L	90	SW846 8260B
Dibromomethane	10.0	9.12	ug/L	91	SW846 8260B
1,2-Dichlorobenzene	10.0	9.14	ug/L	91	SW846 8260B
1,3-Dichlorobenzene	10.0	9.19	ug/L	92	SW846 8260B
1,4-Dichlorobenzene	10.0	9.24	ug/L	92	SW846 8260B
Dichlorodifluoromethane	10.0	9.50	ug/L	95	SW846 8260B
1,1-Dichloroethane	10.0	9.28	ug/L	93	SW846 8260B
1,2-Dichloroethane	10.0	9.27	ug/L	93	SW846 8260B
cis-1,2-Dichloroethene	10.0	9.13	ug/L	91	SW846 8260B
trans-1,2-Dichloroethene	10.0	9.30	ug/L	93	SW846 8260B
1,1-Dichloroethene	**10.0**	**10.0**	**ug/L**	**100**	**SW846 8260B**
1,2-Dichloropropane	10.0	9.25	ug/L	93	SW846 8260B

(Continued on next page)

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: H6D030205 **Work Order #...:** H2MQQ1AC **Matrix.....:** WATER
LCS Lot-Sample#: H6D050000-253

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
1,3-Dichloropropane	10.0	8.98	ug/L	90	SW846 8260B
2,2-Dichloropropane	10.0	8.90	ug/L	89	SW846 8260B
cis-1,3-Dichloropropene	10.0	9.01	ug/L	90	SW846 8260B
trans-1,3-Dichloropropene	10.0	8.38	ug/L	84	SW846 8260B
1,1-Dichloropropene	10.0	9.08	ug/L	91	SW846 8260B
Ethylbenzene	10.0	9.45	ug/L	94	SW846 8260B
Hexachlorobutadiene	10.0	9.81	ug/L	98	SW846 8260B
2-Hexanone	40.0	37.3	ug/L	93	SW846 8260B
Isopropylbenzene	10.0	9.58	ug/L	96	SW846 8260B
p-Isopropyltoluene	10.0	9.57	ug/L	96	SW846 8260B
Methylene chloride	10.0	8.77	ug/L	88	SW846 8260B
4-Methyl-2-pentanone	40.0	36.4	ug/L	91	SW846 8260B
Naphthalene	10.0	8.59	ug/L	86	SW846 8260B
n-Propylbenzene	10.0	9.46	ug/L	95	SW846 8260B
Styrene	10.0	9.26	ug/L	93	SW846 8260B
1,1,1,2-Tetrachloroethane	10.0	8.41	ug/L	84	SW846 8260B
1,1,2,2-Tetrachloroethane	10.0	9.38	ug/L	94	SW846 8260B
Tetrachloroethene	10.0	9.37	ug/L	94	SW846 8260B
Toluene	**10.0**	**9.29**	**ug/L**	**93**	**SW846 8260B**
1,2,3-Trichlorobenzene	10.0	8.87	ug/L	89	SW846 8260B
1,2,4-Trichloro-benzene	10.0	8.83	ug/L	88	SW846 8260B
1,1,1-Trichloroethane	10.0	9.64	ug/L	96	SW846 8260B
1,1,2-Trichloroethane	10.0	8.83	ug/L	88	SW846 8260B
Trichloroethene	**10.0**	**9.56**	**ug/L**	**96**	**SW846 8260B**
Trichlorofluoromethane	10.0	10.1	ug/L	101	SW846 8260B
1,2,3-Trichloropropane	10.0	8.77	ug/L	88	SW846 8260B
1,2,4-Trimethylbenzene	10.0	9.17	ug/L	92	SW846 8260B
1,3,5-Trimethylbenzene	10.0	9.55	ug/L	95	SW846 8260B
Vinyl chloride	10.0	10.2	ug/L	102	SW846 8260B
m-Xylene & p-Xylene	20.0	19.5	ug/L	98	SW846 8260B
o-Xylene	10.0	9.58	ug/L	96	SW846 8260B
Xylenes (total)	30.0	29.1	ug/L	97	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	110	(79 - 120)

(Continued on next page)

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: H6D030205 **Work Order #...:** H2MQQ1AC **Matrix.....:** WATER
LCS Lot-Sample#: H6D050000-253

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	102	(71 - 127)
Toluene-d8	104	(80 - 120)
Bromofluorobenzene	93	(69 - 126)

NOTE(S):

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

Bold print denotes control parameters

a Spiked analyte recovery is outside stated control limits.

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: H6D030205 **Work Order #...:** H2HPA1AC-MS **Matrix.....:** WATER
MS Lot-Sample #: H6D030205-002 H2HPA1AD-MSD
Date Sampled...: 03/28/06 **Date Received..:** 04/02/06
Prep Date.....: 04/05/06 **Analysis Date..:** 04/05/06
Prep Batch #...: 6095253
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Acetone	78	(43 - 141)			SW846 8260B
	85	(43 - 141)	8.9	(0-50)	SW846 8260B
Acrylonitrile	103	(50 - 130)			SW846 8260B
	97	(50 - 130)	5.2	(0-30)	SW846 8260B
Benzene	**80**	**(73 - 125)**			**SW846 8260B**
	67 a	**(73 - 125)**	**18**	**(0-20)**	**SW846 8260B**
Bromobenzene	60 a	(77 - 122)			SW846 8260B
	43 a,p	(77 - 122)	33	(0-20)	SW846 8260B
Bromochloromethane	100	(73 - 124)			SW846 8260B
	90	(73 - 124)	10	(0-21)	SW846 8260B
Bromodichloromethane	93	(57 - 129)			SW846 8260B
	88	(57 - 129)	5.9	(0-22)	SW846 8260B
Bromoform	83	(49 - 141)			SW846 8260B
	82	(49 - 141)	0.43	(0-27)	SW846 8260B
Bromomethane	90	(30 - 168)			SW846 8260B
	89	(30 - 168)	1.7	(0-29)	SW846 8260B
2-Butanone	96	(50 - 143)			SW846 8260B
	88	(50 - 143)	8.5	(0-37)	SW846 8260B
n-Butylbenzene	23 a	(48 - 135)			SW846 8260B
	13 a,p	(48 - 135)	57	(0-21)	SW846 8260B
sec-Butylbenzene	41 a	(52 - 135)			SW846 8260B
	26 a,p	(52 - 135)	44	(0-20)	SW846 8260B
tert-Butylbenzene	56	(54 - 130)			SW846 8260B
	39 a,p	(54 - 130)	36	(0-20)	SW846 8260B
Carbon disulfide	84	(60 - 132)			SW846 8260B
	75	(60 - 132)	11	(0-20)	SW846 8260B
Carbon tetrachloride	68	(53 - 133)			SW846 8260B
	69	(53 - 133)	1.4	(0-29)	SW846 8260B
Chlorobenzene	**66 a**	**(71 - 125)**			**SW846 8260B**
	48 a,p	**(71 - 125)**	**32**	**(0-20)**	**SW846 8260B**
Chlorodibromomethane	73	(61 - 132)			SW846 8260B
	76	(61 - 132)	3.7	(0-27)	SW846 8260B
Chloroethane	106	(61 - 151)			SW846 8260B
	98	(61 - 151)	8.2	(0-20)	SW846 8260B
Chloroform	97	(66 - 122)			SW846 8260B
	88	(66 - 122)	9.4	(0-20)	SW846 8260B
Chloromethane	106	(46 - 140)			SW846 8260B
	97	(46 - 140)	8.9	(0-20)	SW846 8260B
2-Chlorotoluene	47 a	(55 - 131)			SW846 8260B
	29 a,p	(55 - 131)	47	(0-20)	SW846 8260B

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MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: H6D030205 **Work Order #...:** H2HPA1AC-MS **Matrix.....:** WATER
MS Lot-Sample #: H6D030205-002 H2HPA1AD-MSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
4-Chlorotoluene	42 a	(55 - 133)			SW846 8260B
	26 a,p	(55 - 133)	49	(0-20)	SW846 8260B
1,2-Dibromo-3-chloro-propane	67	(41 - 143)			SW846 8260B
	52	(41 - 143)	24	(0-38)	SW846 8260B
1,2-Dibromoethane	89	(65 - 123)			SW846 8260B
	79	(65 - 123)	12	(0-20)	SW846 8260B
Dibromomethane	98	(64 - 126)			SW846 8260B
	86	(64 - 126)	13	(0-21)	SW846 8260B
1,2-Dichlorobenzene	44 a	(66 - 123)			SW846 8260B
	27 a,p	(66 - 123)	50	(0-20)	SW846 8260B
1,3-Dichlorobenzene	39 a	(67 - 123)			SW846 8260B
	23 a,p	(67 - 123)	52	(0-20)	SW846 8260B
1,4-Dichlorobenzene	38 a	(65 - 126)			SW846 8260B
	22 a,p	(65 - 126)	55	(0-20)	SW846 8260B
Dichlorodifluoromethane	85	(32 - 151)			SW846 8260B
	81	(32 - 151)	4.9	(0-25)	SW846 8260B
1,1-Dichloroethane	98	(68 - 127)			SW846 8260B
	90	(68 - 127)	8.7	(0-20)	SW846 8260B
1,2-Dichloroethane	107	(62 - 126)			SW846 8260B
	98	(62 - 126)	8.3	(0-20)	SW846 8260B
cis-1,2-Dichloroethene	91	(56 - 134)			SW846 8260B
	80	(56 - 134)	12	(0-20)	SW846 8260B
trans-1,2-Dichloroethene	86	(70 - 124)			SW846 8260B
	79	(70 - 124)	8.8	(0-20)	SW846 8260B
1,1-Dichloroethene	**96**	**(62 - 128)**			**SW846 8260B**
	87	**(62 - 128)**	**9.7**	**(0-26)**	**SW846 8260B**
1,2-Dichloropropane	98	(72 - 122)			SW846 8260B
	88	(72 - 122)	11	(0-20)	SW846 8260B
1,3-Dichloropropane	90	(68 - 122)			SW846 8260B
	81	(68 - 122)	10	(0-20)	SW846 8260B
2,2-Dichloropropane	67	(34 - 149)			SW846 8260B
	69	(34 - 149)	3.6	(0-32)	SW846 8260B
cis-1,3-Dichloropropene	84	(50 - 130)			SW846 8260B
	75	(50 - 130)	11	(0-24)	SW846 8260B
trans-1,3-Dichloropropene	72	(42 - 132)			SW846 8260B
	68	(42 - 132)	5.9	(0-27)	SW846 8260B
1,1-Dichloropropene	81	(71 - 122)			SW846 8260B
	69 a	(71 - 122)	15	(0-20)	SW846 8260B
Ethylbenzene	65 a	(70 - 130)			SW846 8260B
	48 a,p	(70 - 130)	31	(0-20)	SW846 8260B

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MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: H6D030205 **Work Order #...:** H2HPA1AC-MS **Matrix.....:** WATER
MS Lot-Sample #: H6D030205-002 H2HPA1AD-MSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Hexachlorobutadiene	33 a	(58 - 123)			SW846 8260B
	20 a,p	(58 - 123)	50	(0-25)	SW846 8260B
2-Hexanone	93	(57 - 132)			SW846 8260B
	85	(57 - 132)	8.1	(0-50)	SW846 8260B
Isopropylbenzene	58 a	(69 - 130)			SW846 8260B
	43 a,p	(69 - 130)	31	(0-20)	SW846 8260B
p-Isopropyltoluene	40 a	(53 - 132)			SW846 8260B
	25 a,p	(53 - 132)	45	(0-20)	SW846 8260B
Methylene chloride	98	(53 - 131)			SW846 8260B
	92	(53 - 131)	6.5	(0-20)	SW846 8260B
4-Methyl-2-pentanone	103	(61 - 133)			SW846 8260B
	90	(61 - 133)	14	(0-23)	SW846 8260B
Naphthalene	13 a	(44 - 141)			SW846 8260B
	7.5 a,p	(44 - 141)	57	(0-38)	SW846 8260B
n-Propylbenzene	43 a	(53 - 136)			SW846 8260B
	27 a,p	(53 - 136)	44	(0-20)	SW846 8260B
Styrene	45 a	(69 - 129)			SW846 8260B
	29 a,p	(69 - 129)	43	(0-20)	SW846 8260B
1,1,1,2-Tetrachloroethane	76	(63 - 127)			SW846 8260B
	73	(63 - 127)	4.0	(0-25)	SW846 8260B
1,1,2,2-Tetrachloroethane	90	(65 - 128)			SW846 8260B
	81	(65 - 128)	10	(0-20)	SW846 8260B
Tetrachloroethene	71	(66 - 136)			SW846 8260B
	56 a,p	(66 - 136)	23	(0-20)	SW846 8260B
Toluene	**71**	**(69 - 129)**			**SW846 8260B**
	56 a,p	**(69 - 129)**	**23**	**(0-20)**	**SW846 8260B**
1,2,3-Trichlorobenzene	17 a	(56 - 131)			SW846 8260B
	10 a,p	(56 - 131)	53	(0-36)	SW846 8260B
1,2,4-Trichloro-benzene	15 a	(59 - 129)			SW846 8260B
	9.6 a,p	(59 - 129)	46	(0-28)	SW846 8260B
1,1,1-Trichloroethane	88	(55 - 129)			SW846 8260B
	85	(55 - 129)	3.6	(0-24)	SW846 8260B
1,1,2-Trichloroethane	93	(65 - 124)			SW846 8260B
	87	(65 - 124)	6.9	(0-20)	SW846 8260B
Trichloroethene	**86**	**(56 - 137)**			**SW846 8260B**
	72	**(56 - 137)**	**18**	**(0-20)**	**SW846 8260B**
Trichlorofluoromethane	97	(61 - 144)			SW846 8260B
	93	(61 - 144)	3.4	(0-20)	SW846 8260B
1,2,3-Trichloropropane	88	(54 - 128)			SW846 8260B
	77	(54 - 128)	14	(0-32)	SW846 8260B

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MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: H6D030205 **Work Order #...:** H2HPA1AC-MS **Matrix.....:** WATER
MS Lot-Sample #: H6D030205-002 H2HPA1AD-MSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
1,2,4-Trimethylbenzene	38 a	(55 - 130)			SW846 8260B
	22 a,p	(55 - 130)	53	(0-20)	SW846 8260B
1,3,5-Trimethylbenzene	46 a	(56 - 133)			SW846 8260B
	29 a,p	(56 - 133)	47	(0-20)	SW846 8260B
Vinyl chloride	100	(65 - 139)			SW846 8260B
	93	(65 - 139)	7.0	(0-21)	SW846 8260B
m-Xylene & p-Xylene	57 a	(65 - 137)			SW846 8260B
	40 a,p	(65 - 137)	35	(0-20)	SW846 8260B
o-Xylene	59 a	(69 - 129)			SW846 8260B
	42 a,p	(69 - 129)	33	(0-20)	SW846 8260B
Xylenes (total)	58 a	(67 - 134)			SW846 8260B
	41 a,p	(67 - 134)	34	(0-20)	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	110	(79 - 120)
	113	(79 - 120)
1,2-Dichloroethane-d4	112	(71 - 127)
	115	(71 - 127)
Toluene-d8	99	(80 - 120)
	102	(80 - 120)
Bromofluorobenzene	96	(69 - 126)
	94	(69 - 126)

NOTE(S):

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

Bold print denotes control parameters

a Spiked analyte recovery is outside stated control limits.

p Relative percent difference (RPD) is outside stated control limits.

MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: H6D030205 **Work Order #...:** H2HPA1AC-MS **Matrix.....:** WATER
MS Lot-Sample #: H6D030205-002 H2HPA1AD-MSD
Date Sampled...: 03/28/06 **Date Received..:** 04/02/06
Prep Date.....: 04/05/06 **Analysis Date..:** 04/05/06
Prep Batch #...: 6095253
Dilution Factor: 1

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
Acetone	ND	40.0	31.1	ug/L	78		SW846 8260B
	ND	40.0	34.0	ug/L	85	8.9	SW846 8260B
Acrylonitrile	ND	200	205	ug/L	103		SW846 8260B
	ND	200	195	ug/L	97	5.2	SW846 8260B
Benzene	**ND**	**10.0**	**7.99**	**ug/L**	**80**		**SW846 8260B**
	ND	**10.0**	**6.68**	**ug/L**	**67 a**	**18**	**SW846 8260B**
Bromobenzene	ND	10.0	6.02	ug/L	60 a		SW846 8260B
	ND	10.0	4.30	ug/L	43 a,p	33	SW846 8260B
Bromochloromethane	ND	10.0	10.0	ug/L	100		SW846 8260B
	ND	10.0	9.01	ug/L	90	10	SW846 8260B
Bromodichloromethane	ND	10.0	9.34	ug/L	93		SW846 8260B
	ND	10.0	8.81	ug/L	88	5.9	SW846 8260B
Bromoform	0.99	10.0	9.24	ug/L	83		SW846 8260B
	0.99	10.0	9.20	ug/L	82	0.43	SW846 8260B
Bromomethane	ND	10.0	9.04	ug/L	90		SW846 8260B
	ND	10.0	8.89	ug/L	89	1.7	SW846 8260B
2-Butanone	ND	40.0	38.5	ug/L	96		SW846 8260B
	ND	40.0	35.3	ug/L	88	8.5	SW846 8260B
n-Butylbenzene	ND	10.0	2.32	ug/L	23 a		SW846 8260B
	ND	10.0	1.29	ug/L	13 a,p	57	SW846 8260B
sec-Butylbenzene	ND	10.0	4.12	ug/L	41 a		SW846 8260B
	ND	10.0	2.62	ug/L	26 a,p	44	SW846 8260B
tert-Butylbenzene	ND	10.0	5.61	ug/L	56		SW846 8260B
	ND	10.0	3.89	ug/L	39 a,p	36	SW846 8260B
Carbon disulfide	ND	10.0	8.41	ug/L	84		SW846 8260B
	ND	10.0	7.50	ug/L	75	11	SW846 8260B
Carbon tetrachloride	ND	10.0	6.82	ug/L	68		SW846 8260B
	ND	10.0	6.92	ug/L	69	1.4	SW846 8260B
Chlorobenzene	**ND**	**10.0**	**6.64**	**ug/L**	**66 a**		**SW846 8260B**
	ND	**10.0**	**4.82**	**ug/L**	**48 a,p**	**32**	**SW846 8260B**
Chlorodibromomethane	0.92	10.0	8.24	ug/L	73		SW846 8260B
	0.92	10.0	8.55	ug/L	76	3.7	SW846 8260B
Chloroethane	ND	10.0	10.6	ug/L	106		SW846 8260B
	ND	10.0	9.78	ug/L	98	8.2	SW846 8260B
Chloroform	ND	10.0	9.70	ug/L	97		SW846 8260B
	ND	10.0	8.82	ug/L	88	9.4	SW846 8260B
Chloromethane	ND	10.0	10.6	ug/L	106		SW846 8260B
	ND	10.0	9.73	ug/L	97	8.9	SW846 8260B
2-Chlorotoluene	ND	10.0	4.65	ug/L	47 a		SW846 8260B
	ND	10.0	2.89	ug/L	29 a,p	47	SW846 8260B

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MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: H6D030205 **Work Order #...:** H2HPA1AC-MS **Matrix.....:** WATER
MS Lot-Sample #: H6D030205-002 H2HPA1AD-MSD

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
4-Chlorotoluene	ND	10.0	4.23	ug/L	42 a		SW846 8260B
	ND	10.0	2.56	ug/L	26 a,p	49	SW846 8260B
1,2-Dibromo-3-chloro-propane	ND	10.0	6.65	ug/L	67		SW846 8260B
	ND	10.0	5.23	ug/L	52	24	SW846 8260B
1,2-Dibromoethane	ND	10.0	8.93	ug/L	89		SW846 8260B
	ND	10.0	7.93	ug/L	79	12	SW846 8260B
Dibromomethane	ND	10.0	9.78	ug/L	98		SW846 8260B
	ND	10.0	8.61	ug/L	86	13	SW846 8260B
1,2-Dichlorobenzene	ND	10.0	4.41	ug/L	44 a		SW846 8260B
	ND	10.0	2.65	ug/L	27 a,p	50	SW846 8260B
1,3-Dichlorobenzene	ND	10.0	3.87	ug/L	39 a		SW846 8260B
	ND	10.0	2.28	ug/L	23 a,p	52	SW846 8260B
1,4-Dichlorobenzene	ND	10.0	3.81	ug/L	38 a		SW846 8260B
	ND	10.0	2.18	ug/L	22 a,p	55	SW846 8260B
Dichlorodifluoromethane	ND	10.0	8.54	ug/L	85		SW846 8260B
	ND	10.0	8.13	ug/L	81	4.9	SW846 8260B
1,1-Dichloroethane	ND	10.0	9.81	ug/L	98		SW846 8260B
	ND	10.0	8.99	ug/L	90	8.7	SW846 8260B
1,2-Dichloroethane	ND	10.0	10.7	ug/L	107		SW846 8260B
	ND	10.0	9.84	ug/L	98	8.3	SW846 8260B
cis-1,2-Dichloroethene	ND	10.0	9.09	ug/L	91		SW846 8260B
	ND	10.0	8.02	ug/L	80	12	SW846 8260B
trans-1,2-Dichloroethene	ND	10.0	8.59	ug/L	86		SW846 8260B
	ND	10.0	7.87	ug/L	79	8.8	SW846 8260B
1,1-Dichloroethene	**ND**	**10.0**	**9.56**	**ug/L**	**96**		**SW846 8260B**
	ND	**10.0**	**8.68**	**ug/L**	**87**	**9.7**	**SW846 8260B**
1,2-Dichloropropane	ND	10.0	9.80	ug/L	98		SW846 8260B
	ND	10.0	8.80	ug/L	88	11	SW846 8260B
1,3-Dichloropropane	ND	10.0	9.00	ug/L	90		SW846 8260B
	ND	10.0	8.11	ug/L	81	10	SW846 8260B
2,2-Dichloropropane	ND	10.0	6.68	ug/L	67		SW846 8260B
	ND	10.0	6.93	ug/L	69	3.6	SW846 8260B
cis-1,3-Dichloropropene	ND	10.0	8.42	ug/L	84		SW846 8260B
	ND	10.0	7.52	ug/L	75	11	SW846 8260B
trans-1,3-Dichloropropene	ND	10.0	7.21	ug/L	72		SW846 8260B
	ND	10.0	6.80	ug/L	68	5.9	SW846 8260B
1,1-Dichloropropene	ND	10.0	8.08	ug/L	81		SW846 8260B
	ND	10.0	6.94	ug/L	69 a	15	SW846 8260B
Ethylbenzene	ND	10.0	6.50	ug/L	65 a		SW846 8260B
	ND	10.0	4.77	ug/L	48 a,p	31	SW846 8260B

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MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: H6D030205 **Work Order #...:** H2HPA1AC-MS **Matrix.....:** WATER
MS Lot-Sample #: H6D030205-002 H2HPA1AD-MSD

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
Hexachlorobutadiene	ND	10.0	3.29	ug/L	33 a		SW846 8260B
	ND	10.0	1.98	ug/L	20 a,p	50	SW846 8260B
2-Hexanone	ND	40.0	37.1	ug/L	93		SW846 8260B
	ND	40.0	34.2	ug/L	85	8.1	SW846 8260B
Isopropylbenzene	ND	10.0	5.79	ug/L	58 a		SW846 8260B
	ND	10.0	4.25	ug/L	43 a,p	31	SW846 8260B
p-Isopropyltoluene	ND	10.0	4.00	ug/L	40 a		SW846 8260B
	ND	10.0	2.52	ug/L	25 a,p	45	SW846 8260B
Methylene chloride	ND	10.0	9.79	ug/L	98		SW846 8260B
	ND	10.0	9.17	ug/L	92	6.5	SW846 8260B
4-Methyl-2-pentanone	ND	40.0	41.3	ug/L	103		SW846 8260B
	ND	40.0	35.9	ug/L	90	14	SW846 8260B
Naphthalene	ND	10.0	1.35	ug/L	13 a		SW846 8260B
	ND	10.0	0.747	ug/L	7.5	57	SW846 8260B
	Qualifiers:		a,p				
n-Propylbenzene	ND	10.0	4.29	ug/L	43 a		SW846 8260B
	ND	10.0	2.73	ug/L	27 a,p	44	SW846 8260B
Styrene	ND	10.0	4.53	ug/L	45 a		SW846 8260B
	ND	10.0	2.93	ug/L	29 a,p	43	SW846 8260B
1,1,1,2-Tetrachloroethane	ND	10.0	7.56	ug/L	76		SW846 8260B
	ND	10.0	7.26	ug/L	73	4.0	SW846 8260B
1,1,2,2-Tetrachloroethane	ND	10.0	9.00	ug/L	90		SW846 8260B
	ND	10.0	8.12	ug/L	81	10	SW846 8260B
Tetrachloroethene	ND	10.0	7.07	ug/L	71		SW846 8260B
	ND	10.0	5.64	ug/L	56 a,p	23	SW846 8260B
Toluene	**ND**	**10.0**	**7.06**	**ug/L**	**71**		**SW846 8260B**
	ND	**10.0**	**5.58**	**ug/L**	**56 a,p**	**23**	**SW846 8260B**
1,2,3-Trichlorobenzene	ND	10.0	1.72	ug/L	17 a		SW846 8260B
	ND	10.0	0.996	ug/L	10 a,p	53	SW846 8260B
1,2,4-Trichloro-benzene	ND	10.0	1.52	ug/L	15 a		SW846 8260B
	ND	10.0	0.959	ug/L	9.6	46	SW846 8260B
	Qualifiers:		a,p				
1,1,1-Trichloroethane	ND	10.0	8.76	ug/L	88		SW846 8260B
	ND	10.0	8.45	ug/L	85	3.6	SW846 8260B
1,1,2-Trichloroethane	ND	10.0	9.28	ug/L	93		SW846 8260B
	ND	10.0	8.66	ug/L	87	6.9	SW846 8260B
Trichloroethene	**ND**	**10.0**	**8.65**	**ug/L**	**86**		**SW846 8260B**
	ND	**10.0**	**7.19**	**ug/L**	**72**	**18**	**SW846 8260B**
Trichlorofluoromethane	ND	10.0	9.67	ug/L	97		SW846 8260B
	ND	10.0	9.35	ug/L	93	3.4	SW846 8260B
1,2,3-Trichloropropane	ND	10.0	8.78	ug/L	88		SW846 8260B
	ND	10.0	7.66	ug/L	77	14	SW846 8260B

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MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: H6D030205 **Work Order #...:** H2HPA1AC-MS **Matrix.....:** WATER
MS Lot-Sample #: H6D030205-002 H2HPA1AD-MSD

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
1,2,4-Trimethylbenzene	ND	10.0	3.80	ug/L	38 a		SW846 8260B
	ND	10.0	2.21	ug/L	22 a,p	53	SW846 8260B
1,3,5-Trimethylbenzene	ND	10.0	4.60	ug/L	46 a		SW846 8260B
	ND	10.0	2.85	ug/L	29 a,p	47	SW846 8260B
Vinyl chloride	ND	10.0	10.0	ug/L	100		SW846 8260B
	ND	10.0	9.32	ug/L	93	7.0	SW846 8260B
m-Xylene & p-Xylene	ND	20.0	11.4	ug/L	57 a		SW846 8260B
	ND	20.0	8.01	ug/L	40 a,p	35	SW846 8260B
o-Xylene	ND	10.0	5.90	ug/L	59 a		SW846 8260B
	ND	10.0	4.22	ug/L	42 a,p	33	SW846 8260B
Xylenes (total)	ND	30.0	17.3	ug/L	58 a		SW846 8260B
	ND	30.0	12.2	ug/L	41 a,p	34	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	110	(79 - 120)
	113	(79 - 120)
1,2-Dichloroethane-d4	112	(71 - 127)
	115	(71 - 127)
Toluene-d8	99	(80 - 120)
	102	(80 - 120)
Bromofluorobenzene	96	(69 - 126)
	94	(69 - 126)

NOTE(S):

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

Bold print denotes control parameters

a Spiked analyte recovery is outside stated control limits.

p Relative percent difference (RPD) is outside stated control limits.

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: H6D030205 **Work Order #...:** H2P781AA **Matrix.....:** WATER
MB Lot-Sample #: H6D060000-330

Prep Date.....: 04/06/06
Analysis Date..: 04/06/06 **Prep Batch #...:** 6096330
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Acetone	ND	10	ug/L	SW846 8260B
Acrylonitrile	ND	20	ug/L	SW846 8260B
Benzene	ND	1.0	ug/L	SW846 8260B
Bromobenzene	ND	1.0	ug/L	SW846 8260B
Bromochloromethane	ND	1.0	ug/L	SW846 8260B
Bromodichloromethane	ND	1.0	ug/L	SW846 8260B
Bromoform	ND	1.0	ug/L	SW846 8260B
Bromomethane	ND	2.0	ug/L	SW846 8260B
2-Butanone	ND	5.0	ug/L	SW846 8260B
n-Butylbenzene	ND	1.0	ug/L	SW846 8260B
sec-Butylbenzene	ND	1.0	ug/L	SW846 8260B
tert-Butylbenzene	ND	1.0	ug/L	SW846 8260B
Carbon disulfide	ND	1.0	ug/L	SW846 8260B
Carbon tetrachloride	ND	1.0	ug/L	SW846 8260B
Chlorobenzene	ND	1.0	ug/L	SW846 8260B
Chlorodibromomethane	ND	1.0	ug/L	SW846 8260B
Chloroethane	ND	2.0	ug/L	SW846 8260B
Chloroform	ND	1.0	ug/L	SW846 8260B
Chloromethane	ND	2.0	ug/L	SW846 8260B
2-Chlorotoluene	ND	1.0	ug/L	SW846 8260B
4-Chlorotoluene	ND	1.0	ug/L	SW846 8260B
1,2-Dibromo-3-chloro-propane	ND	2.0	ug/L	SW846 8260B
1,2-Dibromoethane	ND	1.0	ug/L	SW846 8260B
Dibromomethane	ND	1.0	ug/L	SW846 8260B
1,2-Dichlorobenzene	ND	1.0	ug/L	SW846 8260B
1,3-Dichlorobenzene	ND	1.0	ug/L	SW846 8260B
1,4-Dichlorobenzene	ND	1.0	ug/L	SW846 8260B
Dichlorodifluoromethane	ND	2.0	ug/L	SW846 8260B
1,1-Dichloroethane	ND	1.0	ug/L	SW846 8260B
1,2-Dichloroethane	ND	1.0	ug/L	SW846 8260B
cis-1,2-Dichloroethene	ND	1.0	ug/L	SW846 8260B
trans-1,2-Dichloroethene	ND	1.0	ug/L	SW846 8260B
1,1-Dichloroethene	ND	1.0	ug/L	SW846 8260B
1,2-Dichloropropane	ND	1.0	ug/L	SW846 8260B
1,3-Dichloropropane	ND	1.0	ug/L	SW846 8260B
2,2-Dichloropropane	ND	1.0	ug/L	SW846 8260B
cis-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260B
trans-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260B
1,1-Dichloropropene	ND	1.0	ug/L	SW846 8260B
Ethylbenzene	ND	1.0	ug/L	SW846 8260B

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METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: H6D030205 **Work Order #...:** H2P781AA **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Hexachlorobutadiene	ND	2.0	ug/L	SW846 8260B
2-Hexanone	ND	5.0	ug/L	SW846 8260B
Iodomethane	**0.56 J**	**2.0**	**ug/L**	**SW846 8260B**
Isopropylbenzene	ND	1.0	ug/L	SW846 8260B
p-Isopropyltoluene	ND	1.0	ug/L	SW846 8260B
Methylene chloride	ND	2.0	ug/L	SW846 8260B
4-Methyl-2-pentanone	ND	5.0	ug/L	SW846 8260B
Naphthalene	ND	1.0	ug/L	SW846 8260B
n-Propylbenzene	ND	1.0	ug/L	SW846 8260B
Styrene	ND	1.0	ug/L	SW846 8260B
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	SW846 8260B
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	SW846 8260B
Tetrachloroethene	ND	1.0	ug/L	SW846 8260B
Tetrahydrofuran	ND	4.0	ug/L	SW846 8260B
Toluene	ND	1.0	ug/L	SW846 8260B
1,2,3-Trichlorobenzene	ND	1.0	ug/L	SW846 8260B
1,2,4-Trichloro-benzene	ND	1.0	ug/L	SW846 8260B
1,1,1-Trichloroethane	ND	1.0	ug/L	SW846 8260B
1,1,2-Trichloroethane	ND	1.0	ug/L	SW846 8260B
Trichloroethene	ND	1.0	ug/L	SW846 8260B
Trichlorofluoromethane	ND	2.0	ug/L	SW846 8260B
1,2,3-Trichloropropane	ND	1.0	ug/L	SW846 8260B
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	1.0	ug/L	SW846 8260B
1,2,4-Trimethylbenzene	ND	1.0	ug/L	SW846 8260B
1,3,5-Trimethylbenzene	ND	1.0	ug/L	SW846 8260B
Vinyl acetate	ND	2.0	ug/L	SW846 8260B
Vinyl chloride	ND	1.0	ug/L	SW846 8260B
m-Xylene & p-Xylene	ND	1.0	ug/L	SW846 8260B
o-Xylene	ND	1.0	ug/L	SW846 8260B
Xylenes (total)	ND	1.0	ug/L	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	107	(79 - 120)
1,2-Dichloroethane-d4	101	(71 - 127)
Toluene-d8	101	(80 - 120)
Bromofluorobenzene	92	(69 - 126)

NOTE(S):

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

J Estimated result. Result is less than RL.

STL Knoxville - ACS

Method Blank Report

GC/MS Volatiles

Lot-Sample #: H6D060000-330 B **Work Order #:** H2P781AA **Matrix:** WATER

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT	RETENTION TIME	UNITS
None				ug/L

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: H6D030205 **Work Order #...:** H2P781AC **Matrix.....:** WATER
LCS Lot-Sample#: H6D060000-330
Prep Date.....: 04/06/06 **Analysis Date..:** 04/06/06
Prep Batch #...: 6096330
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Acetone	72	(49 - 141)	SW846 8260B
Benzene	**89**	**(80 - 121)**	**SW846 8260B**
Bromobenzene	101	(80 - 122)	SW846 8260B
Bromochloromethane	96	(75 - 124)	SW846 8260B
Bromodichloromethane	95	(73 - 127)	SW846 8260B
Bromoform	113	(63 - 141)	SW846 8260B
Bromomethane	107	(44 - 157)	SW846 8260B
2-Butanone	87	(61 - 139)	SW846 8260B
n-Butylbenzene	95	(62 - 128)	SW846 8260B
sec-Butylbenzene	94	(67 - 127)	SW846 8260B
tert-Butylbenzene	96	(68 - 123)	SW846 8260B
Carbon disulfide	97	(71 - 126)	SW846 8260B
Carbon tetrachloride	87	(66 - 133)	SW846 8260B
Chlorobenzene	**94**	**(80 - 121)**	**SW846 8260B**
Chlorodibromomethane	91	(71 - 132)	SW846 8260B
Chloroethane	110	(61 - 151)	SW846 8260B
Chloroform	94	(76 - 120)	SW846 8260B
Chloromethane	111	(56 - 140)	SW846 8260B
2-Chlorotoluene	90	(68 - 123)	SW846 8260B
4-Chlorotoluene	95	(68 - 125)	SW846 8260B
1,2-Dibromo-3-chloro-propane	77	(51 - 143)	SW846 8260B
1,2-Dibromoethane	93	(78 - 120)	SW846 8260B
Dibromomethane	94	(72 - 125)	SW846 8260B
1,2-Dichlorobenzene	96	(76 - 120)	SW846 8260B
1,3-Dichlorobenzene	94	(77 - 120)	SW846 8260B
1,4-Dichlorobenzene	93	(75 - 120)	SW846 8260B
Dichlorodifluoromethane	92	(48 - 147)	SW846 8260B
1,1-Dichloroethane	95	(70 - 127)	SW846 8260B
1,2-Dichloroethane	98	(71 - 125)	SW846 8260B
cis-1,2-Dichloroethene	92	(76 - 123)	SW846 8260B
trans-1,2-Dichloroethene	89	(75 - 124)	SW846 8260B
1,1-Dichloroethene	**105**	**(70 - 128)**	**SW846 8260B**
1,2-Dichloropropane	97	(77 - 122)	SW846 8260B

(Continued on next page)

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: H6D030205 **Work Order #...:** H2P781AC **Matrix.....:** WATER
LCS Lot-Sample#: H6D060000-330

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
1,3-Dichloropropane	90	(78 - 120)	SW846 8260B
2,2-Dichloropropane	87	(48 - 149)	SW846 8260B
cis-1,3-Dichloropropene	94	(69 - 128)	SW846 8260B
trans-1,3-Dichloropropene	78	(61 - 132)	SW846 8260B
1,1-Dichloropropene	96	(78 - 122)	SW846 8260B
Ethylbenzene	97	(79 - 124)	SW846 8260B
Hexachlorobutadiene	101	(67 - 123)	SW846 8260B
2-Hexanone	106	(63 - 132)	SW846 8260B
Isopropylbenzene	98	(77 - 126)	SW846 8260B
p-Isopropyltoluene	95	(67 - 125)	SW846 8260B
Methylene chloride	97	(59 - 131)	SW846 8260B
4-Methyl-2-pentanone	103	(64 - 133)	SW846 8260B
Naphthalene	95	(48 - 141)	SW846 8260B
n-Propylbenzene	94	(67 - 128)	SW846 8260B
Styrene	96	(76 - 127)	SW846 8260B
1,1,1,2-Tetrachloroethane	89	(75 - 127)	SW846 8260B
1,1,2,2-Tetrachloroethane	97	(69 - 128)	SW846 8260B
Tetrachloroethene	98	(79 - 126)	SW846 8260B
Toluene	**94**	**(77 - 124)**	**SW846 8260B**
1,2,3-Trichlorobenzene	103	(63 - 127)	SW846 8260B
1,2,4-Trichloro-benzene	100	(64 - 126)	SW846 8260B
1,1,1-Trichloroethane	102	(71 - 125)	SW846 8260B
1,1,2-Trichloroethane	91	(74 - 120)	SW846 8260B
Trichloroethene	**98**	**(80 - 121)**	**SW846 8260B**
Trichlorofluoromethane	112	(67 - 143)	SW846 8260B
1,2,3-Trichloropropane	94	(67 - 124)	SW846 8260B
1,2,4-Trimethylbenzene	94	(69 - 121)	SW846 8260B
1,3,5-Trimethylbenzene	96	(71 - 125)	SW846 8260B
Vinyl chloride	110	(72 - 137)	SW846 8260B
m-Xylene & p-Xylene	101	(71 - 134)	SW846 8260B
o-Xylene	100	(76 - 126)	SW846 8260B
Xylenes (total)	101	(73 - 130)	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	106	(79 - 120)

(Continued on next page)

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: H6D030205 **Work Order #...:** H2P781AC **Matrix.....:** WATER
LCS Lot-Sample#: H6D060000-330

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	102	(71 - 127)
Toluene-d8	101	(80 - 120)
Bromofluorobenzene	90	(69 - 126)

NOTE(S):

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

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: H6D030205 **Work Order #...:** H2P781AC **Matrix.....:** WATER
LCS Lot-Sample#: H6D060000-330
Prep Date.....: 04/06/06 **Analysis Date..:** 04/06/06
Prep Batch #...: 6096330
Dilution Factor: 1

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
Acetone	40.0	28.9	ug/L	72	SW846 8260B
Benzene	**10.0**	**8.91**	**ug/L**	**89**	**SW846 8260B**
Bromobenzene	10.0	10.1	ug/L	101	SW846 8260B
Bromochloromethane	10.0	9.65	ug/L	96	SW846 8260B
Bromodichloromethane	10.0	9.53	ug/L	95	SW846 8260B
Bromoform	10.0	11.3	ug/L	113	SW846 8260B
Bromomethane	10.0	10.7	ug/L	107	SW846 8260B
2-Butanone	40.0	34.7	ug/L	87	SW846 8260B
n-Butylbenzene	10.0	9.51	ug/L	95	SW846 8260B
sec-Butylbenzene	10.0	9.43	ug/L	94	SW846 8260B
tert-Butylbenzene	10.0	9.58	ug/L	96	SW846 8260B
Carbon disulfide	10.0	9.73	ug/L	97	SW846 8260B
Carbon tetrachloride	10.0	8.74	ug/L	87	SW846 8260B
Chlorobenzene	**10.0**	**9.44**	**ug/L**	**94**	**SW846 8260B**
Chlorodibromomethane	10.0	9.11	ug/L	91	SW846 8260B
Chloroethane	10.0	11.0	ug/L	110	SW846 8260B
Chloroform	10.0	9.36	ug/L	94	SW846 8260B
Chloromethane	10.0	11.1	ug/L	111	SW846 8260B
2-Chlorotoluene	10.0	9.01	ug/L	90	SW846 8260B
4-Chlorotoluene	10.0	9.50	ug/L	95	SW846 8260B
1,2-Dibromo-3-chloro-propane	10.0	7.67	ug/L	77	SW846 8260B
1,2-Dibromoethane	10.0	9.29	ug/L	93	SW846 8260B
Dibromomethane	10.0	9.41	ug/L	94	SW846 8260B
1,2-Dichlorobenzene	10.0	9.59	ug/L	96	SW846 8260B
1,3-Dichlorobenzene	10.0	9.45	ug/L	94	SW846 8260B
1,4-Dichlorobenzene	10.0	9.34	ug/L	93	SW846 8260B
Dichlorodifluoromethane	10.0	9.17	ug/L	92	SW846 8260B
1,1-Dichloroethane	10.0	9.48	ug/L	95	SW846 8260B
1,2-Dichloroethane	10.0	9.83	ug/L	98	SW846 8260B
cis-1,2-Dichloroethene	10.0	9.17	ug/L	92	SW846 8260B
trans-1,2-Dichloroethene	10.0	8.93	ug/L	89	SW846 8260B
1,1-Dichloroethene	**10.0**	**10.5**	**ug/L**	**105**	**SW846 8260B**
1,2-Dichloropropane	10.0	9.74	ug/L	97	SW846 8260B

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LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: H6D030205 **Work Order #...:** H2P781AC **Matrix.....:** WATER
LCS Lot-Sample#: H6D060000-330

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
1,3-Dichloropropane	10.0	9.02	ug/L	90	SW846 8260B
2,2-Dichloropropane	10.0	8.67	ug/L	87	SW846 8260B
cis-1,3-Dichloropropene	10.0	9.36	ug/L	94	SW846 8260B
trans-1,3-Dichloropropene	10.0	7.79	ug/L	78	SW846 8260B
1,1-Dichloropropene	10.0	9.60	ug/L	96	SW846 8260B
Ethylbenzene	10.0	9.73	ug/L	97	SW846 8260B
Hexachlorobutadiene	10.0	10.1	ug/L	101	SW846 8260B
2-Hexanone	40.0	42.2	ug/L	106	SW846 8260B
Isopropylbenzene	10.0	9.82	ug/L	98	SW846 8260B
p-Isopropyltoluene	10.0	9.50	ug/L	95	SW846 8260B
Methylene chloride	10.0	9.70	ug/L	97	SW846 8260B
4-Methyl-2-pentanone	40.0	41.1	ug/L	103	SW846 8260B
Naphthalene	10.0	9.54	ug/L	95	SW846 8260B
n-Propylbenzene	10.0	9.45	ug/L	94	SW846 8260B
Styrene	10.0	9.63	ug/L	96	SW846 8260B
1,1,1,2-Tetrachloroethane	10.0	8.87	ug/L	89	SW846 8260B
1,1,2,2-Tetrachloroethane	10.0	9.70	ug/L	97	SW846 8260B
Tetrachloroethene	10.0	9.78	ug/L	98	SW846 8260B
Toluene	**10.0**	**9.42**	**ug/L**	**94**	**SW846 8260B**
1,2,3-Trichlorobenzene	10.0	10.3	ug/L	103	SW846 8260B
1,2,4-Trichloro-benzene	10.0	9.96	ug/L	100	SW846 8260B
1,1,1-Trichloroethane	10.0	10.2	ug/L	102	SW846 8260B
1,1,2-Trichloroethane	10.0	9.06	ug/L	91	SW846 8260B
Trichloroethene	**10.0**	**9.77**	**ug/L**	**98**	**SW846 8260B**
Trichlorofluoromethane	10.0	11.2	ug/L	112	SW846 8260B
1,2,3-Trichloropropane	10.0	9.37	ug/L	94	SW846 8260B
1,2,4-Trimethylbenzene	10.0	9.42	ug/L	94	SW846 8260B
1,3,5-Trimethylbenzene	10.0	9.59	ug/L	96	SW846 8260B
Vinyl chloride	10.0	11.0	ug/L	110	SW846 8260B
m-Xylene & p-Xylene	20.0	20.3	ug/L	101	SW846 8260B
o-Xylene	10.0	9.96	ug/L	100	SW846 8260B
Xylenes (total)	30.0	30.2	ug/L	101	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	106	(79 - 120)

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LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: H6D030205 **Work Order #...:** H2P781AC **Matrix.....:** WATER
LCS Lot-Sample#: H6D060000-330

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	102	(71 - 127)
Toluene-d8	101	(80 - 120)
Bromofluorobenzene	90	(69 - 126)

NOTE(S):

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

Bold print denotes control parameters

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: H6D030205 **Work Order #...:** H2HPW1AC-MS **Matrix.....:** WATER
MS Lot-Sample #: H6D030205-003 H2HPW1AD-MSD
Date Sampled...: 03/28/06 **Date Received..:** 04/02/06
Prep Date.....: 04/06/06 **Analysis Date..:** 04/06/06
Prep Batch #...: 6096330
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Acetone	95	(43 - 141)			SW846 8260B
	72	(43 - 141)	24	(0-50)	SW846 8260B
Acrylonitrile	99	(50 - 130)			SW846 8260B
	99	(50 - 130)	0.28	(0-30)	SW846 8260B
Benzene	**83**	**(73 - 125)**			**SW846 8260B**
	87	**(73 - 125)**	**4.3**	**(0-20)**	**SW846 8260B**
Bromobenzene	88	(77 - 122)			SW846 8260B
	94	(77 - 122)	6.1	(0-20)	SW846 8260B
Bromochloromethane	91	(73 - 124)			SW846 8260B
	96	(73 - 124)	5.1	(0-21)	SW846 8260B
Bromodichloromethane	92	(57 - 129)			SW846 8260B
	97	(57 - 129)	5.4	(0-22)	SW846 8260B
Bromoform	103	(49 - 141)			SW846 8260B
	107	(49 - 141)	3.4	(0-27)	SW846 8260B
Bromomethane	102	(30 - 168)			SW846 8260B
	104	(30 - 168)	2.7	(0-29)	SW846 8260B
2-Butanone	94	(50 - 143)			SW846 8260B
	97	(50 - 143)	3.1	(0-37)	SW846 8260B
n-Butylbenzene	84	(48 - 135)			SW846 8260B
	87	(48 - 135)	3.4	(0-21)	SW846 8260B
sec-Butylbenzene	84	(52 - 135)			SW846 8260B
	88	(52 - 135)	5.0	(0-20)	SW846 8260B
tert-Butylbenzene	86	(54 - 130)			SW846 8260B
	90	(54 - 130)	5.4	(0-20)	SW846 8260B
Carbon disulfide	81	(60 - 132)			SW846 8260B
	83	(60 - 132)	3.4	(0-20)	SW846 8260B
Carbon tetrachloride	79	(53 - 133)			SW846 8260B
	83	(53 - 133)	5.6	(0-29)	SW846 8260B
Chlorobenzene	**89**	**(71 - 125)**			**SW846 8260B**
	92	**(71 - 125)**	**3.6**	**(0-20)**	**SW846 8260B**
Chlorodibromomethane	86	(61 - 132)			SW846 8260B
	85	(61 - 132)	1.2	(0-27)	SW846 8260B
Chloroethane	98	(61 - 151)			SW846 8260B
	100	(61 - 151)	2.0	(0-20)	SW846 8260B
Chloroform	89	(66 - 122)			SW846 8260B
	93	(66 - 122)	3.7	(0-20)	SW846 8260B
Chloromethane	96	(46 - 140)			SW846 8260B
	99	(46 - 140)	2.7	(0-20)	SW846 8260B
2-Chlorotoluene	83	(55 - 131)			SW846 8260B
	90	(55 - 131)	8.3	(0-20)	SW846 8260B

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MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: H6D030205 **Work Order #...:** H2HPW1AC-MS **Matrix.....:** WATER
MS Lot-Sample #: H6D030205-003 H2HPW1AD-MSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
4-Chlorotoluene	85	(55 - 133)			SW846 8260B
	93	(55 - 133)	8.6	(0-20)	SW846 8260B
1,2-Dibromo-3-chloro-propane	69	(41 - 143)			SW846 8260B
	83	(41 - 143)	18	(0-38)	SW846 8260B
1,2-Dibromoethane	89	(65 - 123)			SW846 8260B
	95	(65 - 123)	6.1	(0-20)	SW846 8260B
Dibromomethane	89	(64 - 126)			SW846 8260B
	98	(64 - 126)	9.7	(0-21)	SW846 8260B
1,2-Dichlorobenzene	89	(66 - 123)			SW846 8260B
	95	(66 - 123)	7.2	(0-20)	SW846 8260B
1,3-Dichlorobenzene	89	(67 - 123)			SW846 8260B
	96	(67 - 123)	7.2	(0-20)	SW846 8260B
1,4-Dichlorobenzene	89	(65 - 126)			SW846 8260B
	94	(65 - 126)	5.1	(0-20)	SW846 8260B
Dichlorodifluoromethane	90	(32 - 151)			SW846 8260B
	84	(32 - 151)	7.4	(0-25)	SW846 8260B
1,1-Dichloroethane	90	(68 - 127)			SW846 8260B
	95	(68 - 127)	5.9	(0-20)	SW846 8260B
1,2-Dichloroethane	98	(62 - 126)			SW846 8260B
	98	(62 - 126)	0.03	(0-20)	SW846 8260B
cis-1,2-Dichloroethene	89	(56 - 134)			SW846 8260B
	92	(56 - 134)	2.9	(0-20)	SW846 8260B
trans-1,2-Dichloroethene	84	(70 - 124)			SW846 8260B
	88	(70 - 124)	4.8	(0-20)	SW846 8260B
1,1-Dichloroethene	**95**	**(62 - 128)**			**SW846 8260B**
	100	**(62 - 128)**	**5.0**	**(0-26)**	**SW846 8260B**
1,2-Dichloropropane	91	(72 - 122)			SW846 8260B
	98	(72 - 122)	7.3	(0-20)	SW846 8260B
1,3-Dichloropropane	82	(68 - 122)			SW846 8260B
	90	(68 - 122)	9.8	(0-20)	SW846 8260B
2,2-Dichloropropane	72	(34 - 149)			SW846 8260B
	74	(34 - 149)	2.0	(0-32)	SW846 8260B
cis-1,3-Dichloropropene	88	(50 - 130)			SW846 8260B
	92	(50 - 130)	4.2	(0-24)	SW846 8260B
trans-1,3-Dichloropropene	75	(42 - 132)			SW846 8260B
	82	(42 - 132)	8.3	(0-27)	SW846 8260B
1,1-Dichloropropene	87	(71 - 122)			SW846 8260B
	89	(71 - 122)	3.3	(0-20)	SW846 8260B
Ethylbenzene	89	(70 - 130)			SW846 8260B
	92	(70 - 130)	3.0	(0-20)	SW846 8260B

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MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: H6D030205 **Work Order #...:** H2HPW1AC-MS **Matrix.....:** WATER
MS Lot-Sample #: H6D030205-003 H2HPW1AD-MSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Hexachlorobutadiene	94	(58 - 123)			SW846 8260B
	98	(58 - 123)	4.9	(0-25)	SW846 8260B
2-Hexanone	99	(57 - 132)			SW846 8260B
	105	(57 - 132)	5.6	(0-50)	SW846 8260B
Isopropylbenzene	87	(69 - 130)			SW846 8260B
	90	(69 - 130)	3.6	(0-20)	SW846 8260B
p-Isopropyltoluene	85	(53 - 132)			SW846 8260B
	91	(53 - 132)	7.2	(0-20)	SW846 8260B
Methylene chloride	80	(53 - 131)			SW846 8260B
	84	(53 - 131)	5.0	(0-20)	SW846 8260B
4-Methyl-2-pentanone	99	(61 - 133)			SW846 8260B
	102	(61 - 133)	3.0	(0-23)	SW846 8260B
Naphthalene	92	(44 - 141)			SW846 8260B
	99	(44 - 141)	7.4	(0-38)	SW846 8260B
n-Propylbenzene	84	(53 - 136)			SW846 8260B
	89	(53 - 136)	5.7	(0-20)	SW846 8260B
Styrene	88	(69 - 129)			SW846 8260B
	93	(69 - 129)	5.0	(0-20)	SW846 8260B
1,1,1,2-Tetrachloroethane	83	(63 - 127)			SW846 8260B
	88	(63 - 127)	6.4	(0-25)	SW846 8260B
1,1,2,2-Tetrachloroethane	92	(65 - 128)			SW846 8260B
	92	(65 - 128)	0.87	(0-20)	SW846 8260B
Tetrachloroethene	86	(66 - 136)			SW846 8260B
	88	(66 - 136)	2.3	(0-20)	SW846 8260B
Toluene	**85**	**(69 - 129)**			**SW846 8260B**
	88	**(69 - 129)**	**3.1**	**(0-20)**	**SW846 8260B**
1,2,3-Trichlorobenzene	104	(56 - 131)			SW846 8260B
	109	(56 - 131)	5.2	(0-36)	SW846 8260B
1,2,4-Trichloro-benzene	96	(59 - 129)			SW846 8260B
	102	(59 - 129)	5.4	(0-28)	SW846 8260B
1,1,1-Trichloroethane	91	(55 - 129)			SW846 8260B
	91	(55 - 129)	0.06	(0-24)	SW846 8260B
1,1,2-Trichloroethane	89	(65 - 124)			SW846 8260B
	93	(65 - 124)	4.4	(0-20)	SW846 8260B
Trichloroethene	**92**	**(56 - 137)**			**SW846 8260B**
	94	**(56 - 137)**	**1.9**	**(0-20)**	**SW846 8260B**
Trichlorofluoromethane	102	(61 - 144)			SW846 8260B
	103	(61 - 144)	1.8	(0-20)	SW846 8260B
1,2,3-Trichloropropane	84	(54 - 128)			SW846 8260B
	94	(54 - 128)	11	(0-32)	SW846 8260B

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MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: H6D030205 **Work Order #...:** H2HPW1AC-MS **Matrix.....:** WATER
MS Lot-Sample #: H6D030205-003 H2HPW1AD-MSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
1,2,4-Trimethylbenzene	86	(55 - 130)			SW846 8260B
	92	(55 - 130)	6.7	(0-20)	SW846 8260B
1,3,5-Trimethylbenzene	87	(56 - 133)			SW846 8260B
	94	(56 - 133)	7.9	(0-20)	SW846 8260B
Vinyl chloride	101	(65 - 139)			SW846 8260B
	104	(65 - 139)	2.0	(0-21)	SW846 8260B
m-Xylene & p-Xylene	90	(65 - 137)			SW846 8260B
	95	(65 - 137)	6.0	(0-20)	SW846 8260B
o-Xylene	90	(69 - 129)			SW846 8260B
	93	(69 - 129)	3.4	(0-20)	SW846 8260B
Xylenes (total)	90	(67 - 134)			SW846 8260B
	94	(67 - 134)	5.2	(0-20)	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	110	(79 - 120)
	108	(79 - 120)
1,2-Dichloroethane-d4	111	(71 - 127)
	110	(71 - 127)
Toluene-d8	101	(80 - 120)
	99	(80 - 120)
Bromofluorobenzene	90	(69 - 126)
	90	(69 - 126)

NOTE(S):

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

Bold print denotes control parameters

MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: H6D030205 **Work Order #...:** H2HPW1AC-MS **Matrix.....:** WATER
MS Lot-Sample #: H6D030205-003 H2HPW1AD-MSD
Date Sampled...: 03/28/06 **Date Received..:** 04/02/06
Prep Date.....: 04/06/06 **Analysis Date..:** 04/06/06
Prep Batch #...: 6096330
Dilution Factor: 1

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
Acetone	3.7	40.0	41.6	ug/L	95		SW846 8260B
	3.7	40.0	32.7	ug/L	72	24	SW846 8260B
Acrylonitrile	ND	200	198	ug/L	99		SW846 8260B
	ND	200	198	ug/L	99	0.28	SW846 8260B
Benzene	**ND**	**10.0**	**8.30**	**ug/L**	**83**		**SW846 8260B**
	ND	**10.0**	**8.67**	**ug/L**	**87**	**4.3**	**SW846 8260B**
Bromobenzene	ND	10.0	8.84	ug/L	88		SW846 8260B
	ND	10.0	9.40	ug/L	94	6.1	SW846 8260B
Bromochloromethane	ND	10.0	9.11	ug/L	91		SW846 8260B
	ND	10.0	9.58	ug/L	96	5.1	SW846 8260B
Bromodichloromethane	ND	10.0	9.23	ug/L	92		SW846 8260B
	ND	10.0	9.74	ug/L	97	5.4	SW846 8260B
Bromoform	2.0	10.0	12.3	ug/L	103		SW846 8260B
	2.0	10.0	12.7	ug/L	107	3.4	SW846 8260B
Bromomethane	ND	10.0	10.2	ug/L	102		SW846 8260B
	ND	10.0	10.4	ug/L	104	2.7	SW846 8260B
2-Butanone	ND	40.0	37.5	ug/L	94		SW846 8260B
	ND	40.0	38.7	ug/L	97	3.1	SW846 8260B
n-Butylbenzene	ND	10.0	8.38	ug/L	84		SW846 8260B
	ND	10.0	8.67	ug/L	87	3.4	SW846 8260B
sec-Butylbenzene	ND	10.0	8.39	ug/L	84		SW846 8260B
	ND	10.0	8.82	ug/L	88	5.0	SW846 8260B
tert-Butylbenzene	ND	10.0	8.57	ug/L	86		SW846 8260B
	ND	10.0	9.05	ug/L	90	5.4	SW846 8260B
Carbon disulfide	ND	10.0	8.06	ug/L	81		SW846 8260B
	ND	10.0	8.34	ug/L	83	3.4	SW846 8260B
Carbon tetrachloride	ND	10.0	7.87	ug/L	79		SW846 8260B
	ND	10.0	8.32	ug/L	83	5.6	SW846 8260B
Chlorobenzene	**ND**	**10.0**	**8.89**	**ug/L**	**89**		**SW846 8260B**
	ND	**10.0**	**9.22**	**ug/L**	**92**	**3.6**	**SW846 8260B**
Chlorodibromomethane	1.4	10.0	9.99	ug/L	86		SW846 8260B
	1.4	10.0	9.87	ug/L	85	1.2	SW846 8260B
Chloroethane	ND	10.0	9.83	ug/L	98		SW846 8260B
	ND	10.0	10.0	ug/L	100	2.0	SW846 8260B
Chloroform	0.14	10.0	9.06	ug/L	89		SW846 8260B
	0.14	10.0	9.40	ug/L	93	3.7	SW846 8260B
Chloromethane	ND	10.0	9.63	ug/L	96		SW846 8260B
	ND	10.0	9.90	ug/L	99	2.7	SW846 8260B
2-Chlorotoluene	ND	10.0	8.32	ug/L	83		SW846 8260B
	ND	10.0	9.04	ug/L	90	8.3	SW846 8260B

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MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: H6D030205 **Work Order #...:** H2HPW1AC-MS **Matrix.....:** WATER
MS Lot-Sample #: H6D030205-003 H2HPW1AD-MSD

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
4-Chlorotoluene	ND	10.0	8.54	ug/L	85		SW846 8260B
	ND	10.0	9.31	ug/L	93	8.6	SW846 8260B
1,2-Dibromo-3-chloro-propane	ND	10.0	6.90	ug/L	69		SW846 8260B
	ND	10.0	8.30	ug/L	83	18	SW846 8260B
1,2-Dibromoethane	ND	10.0	8.90	ug/L	89		SW846 8260B
	ND	10.0	9.46	ug/L	95	6.1	SW846 8260B
Dibromomethane	ND	10.0	8.86	ug/L	89		SW846 8260B
	ND	10.0	9.76	ug/L	98	9.7	SW846 8260B
1,2-Dichlorobenzene	ND	10.0	8.85	ug/L	89		SW846 8260B
	ND	10.0	9.51	ug/L	95	7.2	SW846 8260B
1,3-Dichlorobenzene	ND	10.0	8.89	ug/L	89		SW846 8260B
	ND	10.0	9.56	ug/L	96	7.2	SW846 8260B
1,4-Dichlorobenzene	ND	10.0	8.88	ug/L	89		SW846 8260B
	ND	10.0	9.35	ug/L	94	5.1	SW846 8260B
Dichlorodifluoromethane	ND	10.0	9.02	ug/L	90		SW846 8260B
	ND	10.0	8.37	ug/L	84	7.4	SW846 8260B
1,1-Dichloroethane	ND	10.0	8.96	ug/L	90		SW846 8260B
	ND	10.0	9.51	ug/L	95	5.9	SW846 8260B
1,2-Dichloroethane	ND	10.0	9.85	ug/L	98		SW846 8260B
	ND	10.0	9.84	ug/L	98	0.03	SW846 8260B
cis-1,2-Dichloroethene	ND	10.0	8.93	ug/L	89		SW846 8260B
	ND	10.0	9.19	ug/L	92	2.9	SW846 8260B
trans-1,2-Dichloroethene	ND	10.0	8.38	ug/L	84		SW846 8260B
	ND	10.0	8.80	ug/L	88	4.8	SW846 8260B
1,1-Dichloroethene	**ND**	**10.0**	**9.52**	**ug/L**	**95**		**SW846 8260B**
	ND	**10.0**	**10.0**	**ug/L**	**100**	**5.0**	**SW846 8260B**
1,2-Dichloropropane	ND	10.0	9.07	ug/L	91		SW846 8260B
	ND	10.0	9.76	ug/L	98	7.3	SW846 8260B
1,3-Dichloropropane	ND	10.0	8.15	ug/L	82		SW846 8260B
	ND	10.0	8.99	ug/L	90	9.8	SW846 8260B
2,2-Dichloropropane	ND	10.0	7.23	ug/L	72		SW846 8260B
	ND	10.0	7.37	ug/L	74	2.0	SW846 8260B
cis-1,3-Dichloropropene	ND	10.0	8.80	ug/L	88		SW846 8260B
	ND	10.0	9.18	ug/L	92	4.2	SW846 8260B
trans-1,3-Dichloropropene	ND	10.0	7.51	ug/L	75		SW846 8260B
	ND	10.0	8.16	ug/L	82	8.3	SW846 8260B
1,1-Dichloropropene	ND	10.0	8.65	ug/L	87		SW846 8260B
	ND	10.0	8.94	ug/L	89	3.3	SW846 8260B
Ethylbenzene	ND	10.0	8.92	ug/L	89		SW846 8260B
	ND	10.0	9.19	ug/L	92	3.0	SW846 8260B

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MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: H6D030205 **Work Order #...:** H2HPW1AC-MS **Matrix.....:** WATER
MS Lot-Sample #: H6D030205-003 H2HPW1AD-MSD

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
Hexachlorobutadiene	ND	10.0	9.36	ug/L	94		SW846 8260B
	ND	10.0	9.83	ug/L	98	4.9	SW846 8260B
2-Hexanone	ND	40.0	39.6	ug/L	99		SW846 8260B
	ND	40.0	41.9	ug/L	105	5.6	SW846 8260B
Isopropylbenzene	ND	10.0	8.67	ug/L	87		SW846 8260B
	ND	10.0	8.99	ug/L	90	3.6	SW846 8260B
p-Isopropyltoluene	ND	10.0	8.50	ug/L	85		SW846 8260B
	ND	10.0	9.14	ug/L	91	7.2	SW846 8260B
Methylene chloride	0.35	10.0	8.37	ug/L	80		SW846 8260B
	0.35	10.0	8.79	ug/L	84	5.0	SW846 8260B
4-Methyl-2-pentanone	ND	40.0	39.6	ug/L	99		SW846 8260B
	ND	40.0	40.8	ug/L	102	3.0	SW846 8260B
Naphthalene	ND	10.0	9.22	ug/L	92		SW846 8260B
	ND	10.0	9.93	ug/L	99	7.4	SW846 8260B
n-Propylbenzene	ND	10.0	8.44	ug/L	84		SW846 8260B
	ND	10.0	8.93	ug/L	89	5.7	SW846 8260B
Styrene	ND	10.0	8.80	ug/L	88		SW846 8260B
	ND	10.0	9.26	ug/L	93	5.0	SW846 8260B
1,1,1,2-Tetrachloroethane	ND	10.0	8.25	ug/L	83		SW846 8260B
	ND	10.0	8.79	ug/L	88	6.4	SW846 8260B
1,1,2,2-Tetrachloroethane	ND	10.0	9.24	ug/L	92		SW846 8260B
	ND	10.0	9.16	ug/L	92	0.87	SW846 8260B
Tetrachloroethene	0.13	10.0	8.74	ug/L	86		SW846 8260B
	0.13	10.0	8.95	ug/L	88	2.3	SW846 8260B
Toluene	**ND**	**10.0**	**8.53**	**ug/L**	**85**		**SW846 8260B**
	ND	**10.0**	**8.80**	**ug/L**	**88**	**3.1**	**SW846 8260B**
1,2,3-Trichlorobenzene	ND	10.0	10.4	ug/L	104		SW846 8260B
	ND	10.0	10.9	ug/L	109	5.2	SW846 8260B
1,2,4-Trichloro-benzene	ND	10.0	9.65	ug/L	96		SW846 8260B
	ND	10.0	10.2	ug/L	102	5.4	SW846 8260B
1,1,1-Trichloroethane	ND	10.0	9.12	ug/L	91		SW846 8260B
	ND	10.0	9.11	ug/L	91	0.06	SW846 8260B
1,1,2-Trichloroethane	ND	10.0	8.93	ug/L	89		SW846 8260B
	ND	10.0	9.34	ug/L	93	4.4	SW846 8260B
Trichloroethene	**ND**	**10.0**	**9.25**	**ug/L**	**92**		**SW846 8260B**
	ND	**10.0**	**9.43**	**ug/L**	**94**	**1.9**	**SW846 8260B**
Trichlorofluoromethane	ND	10.0	10.2	ug/L	102		SW846 8260B
	ND	10.0	10.3	ug/L	103	1.8	SW846 8260B
1,2,3-Trichloropropane	ND	10.0	8.42	ug/L	84		SW846 8260B
	ND	10.0	9.42	ug/L	94	11	SW846 8260B

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MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: H6D030205 **Work Order #...:** H2HPW1AC-MS **Matrix.....:** WATER
MS Lot-Sample #: H6D030205-003 H2HPW1AD-MSD

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
1,2,4-Trimethylbenzene	ND	10.0	8.64	ug/L	86		SW846 8260B
	ND	10.0	9.24	ug/L	92	6.7	SW846 8260B
1,3,5-Trimethylbenzene	ND	10.0	8.67	ug/L	87		SW846 8260B
	ND	10.0	9.38	ug/L	94	7.9	SW846 8260B
Vinyl chloride	ND	10.0	10.1	ug/L	101		SW846 8260B
	ND	10.0	10.4	ug/L	104	2.0	SW846 8260B
m-Xylene & p-Xylene	ND	20.0	17.9	ug/L	90		SW846 8260B
	ND	20.0	19.0	ug/L	95	6.0	SW846 8260B
o-Xylene	ND	10.0	8.96	ug/L	90		SW846 8260B
	ND	10.0	9.28	ug/L	93	3.4	SW846 8260B
Xylenes (total)	ND	30.0	26.9	ug/L	90		SW846 8260B
	ND	30.0	28.3	ug/L	94	5.2	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	110	(79 - 120)
	108	(79 - 120)
1,2-Dichloroethane-d4	111	(71 - 127)
	110	(71 - 127)
Toluene-d8	101	(80 - 120)
	99	(80 - 120)
Bromofluorobenzene	90	(69 - 126)
	90	(69 - 126)

NOTE(S):

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

Bold print denotes control parameters

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: H6D030205 **Work Order #...:** H2HP31AC-MS **Matrix.....:** WATER
MS Lot-Sample #: H6D030205-004 H2HP31AD-MSD
Date Sampled...: 03/28/06 **Date Received..:** 04/02/06
Prep Date.....: 04/06/06 **Analysis Date..:** 04/06/06
Prep Batch #...: 6096330
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Acetone	199 a	(43 - 141)			SW846 8260B
	234 a	(43 - 141)	15	(0-50)	SW846 8260B
Acrylonitrile	167 a	(50 - 130)			SW846 8260B
	179 a	(50 - 130)	7.0	(0-30)	SW846 8260B
Benzene	**81**	**(73 - 125)**			**SW846 8260B**
	79	**(73 - 125)**	**2.4**	**(0-20)**	**SW846 8260B**
Bromobenzene	111	(77 - 122)			SW846 8260B
	116	(77 - 122)	4.4	(0-20)	SW846 8260B
Bromochloromethane	135 a	(73 - 124)			SW846 8260B
	145 a	(73 - 124)	6.7	(0-21)	SW846 8260B
Bromodichloromethane	119	(57 - 129)			SW846 8260B
	125	(57 - 129)	5.1	(0-22)	SW846 8260B
Bromoform	159 a	(49 - 141)			SW846 8260B
	175 a	(49 - 141)	8.1	(0-27)	SW846 8260B
Bromomethane	71	(30 - 168)			SW846 8260B
	67	(30 - 168)	5.4	(0-29)	SW846 8260B
2-Butanone	193 a	(50 - 143)			SW846 8260B
	219 a	(50 - 143)	12	(0-37)	SW846 8260B
n-Butylbenzene	28 a	(48 - 135)			SW846 8260B
	29 a	(48 - 135)	1.2	(0-21)	SW846 8260B
sec-Butylbenzene	0.0	(52 - 135)			SW846 8260B
	0.0	(52 - 135)	0.0	(0-20)	SW846 8260B
tert-Butylbenzene	2.9 a	(54 - 130)			SW846 8260B
	0.0	(54 - 130)	200	(0-20)	SW846 8260B
Carbon disulfide	73	(60 - 132)			SW846 8260B
	64	(60 - 132)	14	(0-20)	SW846 8260B
Carbon tetrachloride	70	(53 - 133)			SW846 8260B
	74	(53 - 133)	4.7	(0-29)	SW846 8260B
Chlorobenzene	**81**	**(71 - 125)**			**SW846 8260B**
	83	**(71 - 125)**	**1.5**	**(0-20)**	**SW846 8260B**
Chlorodibromomethane	113	(61 - 132)			SW846 8260B
	117	(61 - 132)	2.9	(0-27)	SW846 8260B
Chloroethane	87	(61 - 151)			SW846 8260B
	86	(61 - 151)	1.2	(0-20)	SW846 8260B
Chloroform	99	(66 - 122)			SW846 8260B
	99	(66 - 122)	0.15	(0-20)	SW846 8260B
Chloromethane	157 a	(46 - 140)			SW846 8260B
	162 a	(46 - 140)	3.0	(0-20)	SW846 8260B
2-Chlorotoluene	57	(55 - 131)			SW846 8260B
	56	(55 - 131)	1.6	(0-20)	SW846 8260B

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MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: H6D030205 **Work Order #...:** H2HP31AC-MS **Matrix.....:** WATER
MS Lot-Sample #: H6D030205-004 H2HP31AD-MSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
4-Chlorotoluene	56	(55 - 133)			SW846 8260B
	54 a	(55 - 133)	3.6	(0-20)	SW846 8260B
1,2-Dibromo-3-chloro-propane	172 a	(41 - 143)			SW846 8260B
	192 a	(41 - 143)	11	(0-38)	SW846 8260B
1,2-Dibromoethane	144 a	(65 - 123)			SW846 8260B
	148 a	(65 - 123)	3.0	(0-20)	SW846 8260B
Dibromomethane	151 a	(64 - 126)			SW846 8260B
	156 a	(64 - 126)	2.8	(0-21)	SW846 8260B
1,2-Dichlorobenzene	99	(66 - 123)			SW846 8260B
	99	(66 - 123)	0.55	(0-20)	SW846 8260B
1,3-Dichlorobenzene	76	(67 - 123)			SW846 8260B
	72	(67 - 123)	4.7	(0-20)	SW846 8260B
1,4-Dichlorobenzene	82	(65 - 126)			SW846 8260B
	82	(65 - 126)	0.34	(0-20)	SW846 8260B
Dichlorodifluoromethane	78	(32 - 151)			SW846 8260B
	74	(32 - 151)	5.9	(0-25)	SW846 8260B
1,1-Dichloroethane	91	(68 - 127)			SW846 8260B
	87	(68 - 127)	3.6	(0-20)	SW846 8260B
1,2-Dichloroethane	161 a	(62 - 126)			SW846 8260B
	167 a	(62 - 126)	3.3	(0-20)	SW846 8260B
cis-1,2-Dichloroethene	97	(56 - 134)			SW846 8260B
	97	(56 - 134)	0.83	(0-20)	SW846 8260B
trans-1,2-Dichloroethene	70	(70 - 124)			SW846 8260B
	68 a	(70 - 124)	2.4	(0-20)	SW846 8260B
1,1-Dichloroethene	**11 a**	**(62 - 128)**			**SW846 8260B**
	5.6 a,p	**(62 - 128)**	**68**	**(0-26)**	**SW846 8260B**
1,2-Dichloropropane	121	(72 - 122)			SW846 8260B
	118	(72 - 122)	1.9	(0-20)	SW846 8260B
1,3-Dichloropropane	142 a	(68 - 122)			SW846 8260B
	149 a	(68 - 122)	4.7	(0-20)	SW846 8260B
2,2-Dichloropropane	60	(34 - 149)			SW846 8260B
	61	(34 - 149)	0.97	(0-32)	SW846 8260B
cis-1,3-Dichloropropene	1.0 a	(50 - 130)			SW846 8260B
	0.0	(50 - 130)	200	(0-24)	SW846 8260B
trans-1,3-Dichloropropene	7.4 a	(42 - 132)			SW846 8260B
	6.6 a	(42 - 132)	12	(0-27)	SW846 8260B
1,1-Dichloropropene	2.9 a	(71 - 122)			SW846 8260B
	3.7 a,p	(71 - 122)	26	(0-20)	SW846 8260B
Ethylbenzene	0.0	(70 - 130)			SW846 8260B
	0.0	(70 - 130)	0.0	(0-20)	SW846 8260B

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MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: H6D030205 **Work Order #...:** H2HP31AC-MS **Matrix.....:** WATER
MS Lot-Sample #: H6D030205-004 H2HP31AD-MSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Hexachlorobutadiene	55 a	(58 - 123)			SW846 8260B
	54 a	(58 - 123)	1.3	(0-25)	SW846 8260B
2-Hexanone	380 a	(57 - 132)			SW846 8260B
	419 a	(57 - 132)	9.9	(0-50)	SW846 8260B
Isopropylbenzene	0.0	(69 - 130)			SW846 8260B
	0.0	(69 - 130)	0.0	(0-20)	SW846 8260B
p-Isopropyltoluene	0.0	(53 - 132)			SW846 8260B
	0.0	(53 - 132)	0.0	(0-20)	SW846 8260B
Methylene chloride	104	(53 - 131)			SW846 8260B
	104	(53 - 131)	0.39	(0-20)	SW846 8260B
4-Methyl-2-pentanone	450 a	(61 - 133)			SW846 8260B
	491 a	(61 - 133)	8.8	(0-23)	SW846 8260B
Naphthalene	5.9 a	(44 - 141)			SW846 8260B
	0.0	(44 - 141)	200	(0-38)	SW846 8260B
n-Propylbenzene	30 a	(53 - 136)			SW846 8260B
	30 a	(53 - 136)	1.6	(0-20)	SW846 8260B
Styrene	0.0	(69 - 129)			SW846 8260B
	0.0	(69 - 129)	0.0	(0-20)	SW846 8260B
1,1,1,2-Tetrachloroethane	93	(63 - 127)			SW846 8260B
	96	(63 - 127)	2.3	(0-25)	SW846 8260B
1,1,2,2-Tetrachloroethane	197 a	(65 - 128)			SW846 8260B
	207 a	(65 - 128)	5.0	(0-20)	SW846 8260B
Tetrachloroethene	61 a	(66 - 136)			SW846 8260B
	59 a	(66 - 136)	2.3	(0-20)	SW846 8260B
Toluene	**0.0**	**(69 - 129)**			**SW846 8260B**
	0.0	**(69 - 129)**	**0.0**	**(0-20)**	**SW846 8260B**
1,2,3-Trichlorobenzene	129	(56 - 131)			SW846 8260B
	140 a	(56 - 131)	8.5	(0-36)	SW846 8260B
1,2,4-Trichloro-benzene	104	(59 - 129)			SW846 8260B
	106	(59 - 129)	1.6	(0-28)	SW846 8260B
1,1,1-Trichloroethane	80	(55 - 129)			SW846 8260B
	80	(55 - 129)	0.72	(0-24)	SW846 8260B
1,1,2-Trichloroethane	144 a	(65 - 124)			SW846 8260B
	151 a	(65 - 124)	4.9	(0-20)	SW846 8260B
Trichloroethene	**81**	**(56 - 137)**			**SW846 8260B**
	78	**(56 - 137)**	**4.1**	**(0-20)**	**SW846 8260B**
Trichlorofluoromethane	91	(61 - 144)			SW846 8260B
	85	(61 - 144)	7.7	(0-20)	SW846 8260B
1,2,3-Trichloropropane	152 a	(54 - 128)			SW846 8260B
	157 a	(54 - 128)	3.1	(0-32)	SW846 8260B

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MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: H6D030205 **Work Order #...:** H2HP31AC-MS **Matrix.....:** WATER
MS Lot-Sample #: H6D030205-004 H2HP31AD-MSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
1,2,4-Trimethylbenzene	0.0	(55 - 130)			SW846 8260B
	0.0	(55 - 130)	0.0	(0-20)	SW846 8260B
1,3,5-Trimethylbenzene	0.0	(56 - 133)			SW846 8260B
	0.0	(56 - 133)	0.0	(0-20)	SW846 8260B
Vinyl chloride	1.4 a	(65 - 139)			SW846 8260B
	0.0	(65 - 139)	200	(0-21)	SW846 8260B
m-Xylene & p-Xylene	0.0	(65 - 137)			SW846 8260B
	0.0	(65 - 137)	0.0	(0-20)	SW846 8260B
o-Xylene	0.0	(69 - 129)			SW846 8260B
	0.0	(69 - 129)	0.0	(0-20)	SW846 8260B
Xylenes (total)	0.0	(67 - 134)			SW846 8260B
	0.0	(67 - 134)	0.0	(0-20)	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	139 *	(79 - 120)
	136 *	(79 - 120)
1,2-Dichloroethane-d4	184 *	(71 - 127)
	190 *	(71 - 127)
Toluene-d8	81	(80 - 120)
	80	(80 - 120)
Bromofluorobenzene	89	(69 - 126)
	90	(69 - 126)

NOTE(S):

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

Bold print denotes control parameters

* Surrogate recovery is outside stated control limits.

a Spiked analyte recovery is outside stated control limits.

p Relative percent difference (RPD) is outside stated control limits.

MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: H6D030205 **Work Order #...:** H2HP31AC-MS **Matrix.....:** WATER
MS Lot-Sample #: H6D030205-004 H2HP31AD-MSD
Date Sampled...: 03/28/06 **Date Received..:** 04/02/06
Prep Date.....: 04/06/06 **Analysis Date..:** 04/06/06
Prep Batch #...: 6096330
Dilution Factor: 1

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
Acetone	4.5	40.0	84.2	ug/L	199 a		SW846 8260B
	4.5	40.0	98.0	ug/L	234 a	15	SW846 8260B
Acrylonitrile	ND	200	334	ug/L	167 a		SW846 8260B
	ND	200	358	ug/L	179 a	7.0	SW846 8260B
Benzene	**ND**	**10.0**	**8.07**	**ug/L**	**81**		**SW846 8260B**
	ND	**10.0**	**7.87**	**ug/L**	**79**	**2.4**	**SW846 8260B**
Bromobenzene	0.18	10.0	11.3	ug/L	111		SW846 8260B
	0.18	10.0	11.8	ug/L	116	4.4	SW846 8260B
Bromochloromethane	ND	10.0	13.5	ug/L	135 a		SW846 8260B
	ND	10.0	14.5	ug/L	145 a	6.7	SW846 8260B
Bromodichloromethane	0.86	10.0	12.7	ug/L	119		SW846 8260B
	0.86	10.0	13.4	ug/L	125	5.1	SW846 8260B
Bromoform	2.8	10.0	18.7	ug/L	159 a		SW846 8260B
	2.8	10.0	20.3	ug/L	175 a	8.1	SW846 8260B
Bromomethane	ND	10.0	7.07	ug/L	71		SW846 8260B
	ND	10.0	6.70	ug/L	67	5.4	SW846 8260B
2-Butanone	ND	40.0	77.2	ug/L	193 a		SW846 8260B
	ND	40.0	87.4	ug/L	219 a	12	SW846 8260B
n-Butylbenzene	ND	10.0	2.82	ug/L	28 a		SW846 8260B
	ND	10.0	2.86	ug/L	29 a	1.2	SW846 8260B
sec-Butylbenzene	ND	10.0		ug/L	0.0		SW846 8260B
	ND	10.0		ug/L	0.0	0.0	SW846 8260B
tert-Butylbenzene	ND	10.0	0.287	ug/L	2.9 a		SW846 8260B
	ND	10.0		ug/L	0.0	200	SW846 8260B
Carbon disulfide	ND	10.0	7.35	ug/L	73		SW846 8260B
	ND	10.0	6.36	ug/L	64	14	SW846 8260B
Carbon tetrachloride	ND	10.0	7.01	ug/L	70		SW846 8260B
	ND	10.0	7.35	ug/L	74	4.7	SW846 8260B
Chlorobenzene	**ND**	**10.0**	**8.15**	**ug/L**	**81**		**SW846 8260B**
	ND	**10.0**	**8.27**	**ug/L**	**83**	**1.5**	**SW846 8260B**
Chlorodibromomethane	1.0	10.0	12.4	ug/L	113		SW846 8260B
	1.0	10.0	12.7	ug/L	117	2.9	SW846 8260B
Chloroethane	ND	10.0	8.75	ug/L	87		SW846 8260B
	ND	10.0	8.65	ug/L	86	1.2	SW846 8260B
Chloroform	0.17	10.0	10.1	ug/L	99		SW846 8260B
	0.17	10.0	10.1	ug/L	99	0.15	SW846 8260B
Chloromethane	ND	10.0	15.7	ug/L	157 a		SW846 8260B
	ND	10.0	16.2	ug/L	162 a	3.0	SW846 8260B
2-Chlorotoluene	ND	10.0	5.68	ug/L	57		SW846 8260B
	ND	10.0	5.59	ug/L	56	1.6	SW846 8260B

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MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: H6D030205 **Work Order #...:** H2HP31AC-MS **Matrix.....:** WATER
MS Lot-Sample #: H6D030205-004 H2HP31AD-MSD

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
4-Chlorotoluene	ND	10.0	5.61	ug/L	56		SW846 8260B
	ND	10.0	5.41	ug/L	54 a	3.6	SW846 8260B
1,2-Dibromo-3-chloro-propane	ND	10.0	17.2	ug/L	172 a		SW846 8260B
	ND	10.0	19.2	ug/L	192 a	11	SW846 8260B
1,2-Dibromoethane	ND	10.0	14.4	ug/L	144 a		SW846 8260B
	ND	10.0	14.8	ug/L	148 a	3.0	SW846 8260B
Dibromomethane	ND	10.0	15.1	ug/L	151 a		SW846 8260B
	ND	10.0	15.6	ug/L	156 a	2.8	SW846 8260B
1,2-Dichlorobenzene	ND	10.0	9.85	ug/L	99		SW846 8260B
	ND	10.0	9.91	ug/L	99	0.55	SW846 8260B
1,3-Dichlorobenzene	ND	10.0	7.57	ug/L	76		SW846 8260B
	ND	10.0	7.22	ug/L	72	4.7	SW846 8260B
1,4-Dichlorobenzene	ND	10.0	8.24	ug/L	82		SW846 8260B
	ND	10.0	8.21	ug/L	82	0.34	SW846 8260B
Dichlorodifluoromethane	ND	10.0	7.81	ug/L	78		SW846 8260B
	ND	10.0	7.37	ug/L	74	5.9	SW846 8260B
1,1-Dichloroethane	ND	10.0	9.06	ug/L	91		SW846 8260B
	ND	10.0	8.74	ug/L	87	3.6	SW846 8260B
1,2-Dichloroethane	0.13	10.0	16.3	ug/L	161 a		SW846 8260B
	0.13	10.0	16.8	ug/L	167 a	3.3	SW846 8260B
cis-1,2-Dichloroethene	ND	10.0	9.65	ug/L	97		SW846 8260B
	ND	10.0	9.73	ug/L	97	0.83	SW846 8260B
trans-1,2-Dichloroethene	ND	10.0	7.01	ug/L	70		SW846 8260B
	ND	10.0	6.84	ug/L	68 a	2.4	SW846 8260B
1,1-Dichloroethene	**ND**	**10.0**	**1.14**	**ug/L**	**11 a**		**SW846 8260B**
	ND	**10.0**	**0.562**	**ug/L**	**5.6**	**68**	**SW846 8260B**
	Qualifiers:	a,p					
1,2-Dichloropropane	ND	10.0	12.1	ug/L	121		SW846 8260B
	ND	10.0	11.8	ug/L	118	1.9	SW846 8260B
1,3-Dichloropropane	ND	10.0	14.2	ug/L	142 a		SW846 8260B
	ND	10.0	14.9	ug/L	149 a	4.7	SW846 8260B
2,2-Dichloropropane	ND	10.0	6.00	ug/L	60		SW846 8260B
	ND	10.0	6.05	ug/L	61	0.97	SW846 8260B
cis-1,3-Dichloropropene	ND	10.0	0.101	ug/L	1.0 a		SW846 8260B
	ND	10.0		ug/L	0.0	200	SW846 8260B
trans-1,3-Dichloropropene	ND	10.0	0.738	ug/L	7.4 a		SW846 8260B
	ND	10.0	0.657	ug/L	6.6 a	12	SW846 8260B
1,1-Dichloropropene	ND	10.0	0.287	ug/L	2.9 a		SW846 8260B
	ND	10.0	0.373	ug/L	3.7	26	SW846 8260B
	Qualifiers:	a,p					

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MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: H6D030205 **Work Order #...:** H2HP31AC-MS **Matrix.....:** WATER
MS Lot-Sample #: H6D030205-004 H2HP31AD-MSD

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
Ethylbenzene	ND	10.0		ug/L	0.0		SW846 8260B
	ND	10.0		ug/L	0.0	0.0	SW846 8260B
Hexachlorobutadiene	ND	10.0	5.48	ug/L	55 a		SW846 8260B
	ND	10.0	5.41	ug/L	54 a	1.3	SW846 8260B
2-Hexanone	ND	40.0	152	ug/L	380 a		SW846 8260B
	ND	40.0	168	ug/L	419 a	9.9	SW846 8260B
Isopropylbenzene	ND	10.0		ug/L	0.0		SW846 8260B
	ND	10.0		ug/L	0.0	0.0	SW846 8260B
p-Isopropyltoluene	ND	10.0		ug/L	0.0		SW846 8260B
	ND	10.0		ug/L	0.0	0.0	SW846 8260B
Methylene chloride	0.53	10.0	11.0	ug/L	104		SW846 8260B
	0.53	10.0	10.9	ug/L	104	0.39	SW846 8260B
4-Methyl-2-pentanone	ND	40.0	180	ug/L	450 a		SW846 8260B
	ND	40.0	196	ug/L	491 a	8.8	SW846 8260B
Naphthalene	ND	10.0	0.593	ug/L	5.9 a		SW846 8260B
	ND	10.0		ug/L	0.0	200	SW846 8260B
n-Propylbenzene	ND	10.0	3.01	ug/L	30 a		SW846 8260B
	ND	10.0	2.96	ug/L	30 a	1.6	SW846 8260B
Styrene	ND	10.0		ug/L	0.0		SW846 8260B
	ND	10.0		ug/L	0.0	0.0	SW846 8260B
1,1,1,2-Tetrachloroethane	ND	10.0	9.33	ug/L	93		SW846 8260B
	ND	10.0	9.55	ug/L	96	2.3	SW846 8260B
1,1,2,2-Tetrachloroethane	ND	10.0	19.7	ug/L	197 a		SW846 8260B
	ND	10.0	20.7	ug/L	207 a	5.0	SW846 8260B
Tetrachloroethene	ND	10.0	6.06	ug/L	61 a		SW846 8260B
	ND	10.0	5.92	ug/L	59 a	2.3	SW846 8260B
Toluene	**ND**	**10.0**		**ug/L**	**0.0**		**SW846 8260B**
	ND	**10.0**		**ug/L**	**0.0**	**0.0**	**SW846 8260B**
1,2,3-Trichlorobenzene	ND	10.0	12.9	ug/L	129		SW846 8260B
	ND	10.0	14.0	ug/L	140 a	8.5	SW846 8260B
1,2,4-Trichloro-benzene	ND	10.0	10.4	ug/L	104		SW846 8260B
	ND	10.0	10.6	ug/L	106	1.6	SW846 8260B
1,1,1-Trichloroethane	ND	10.0	8.04	ug/L	80		SW846 8260B
	ND	10.0	7.98	ug/L	80	0.72	SW846 8260B
1,1,2-Trichloroethane	ND	10.0	14.4	ug/L	144 a		SW846 8260B
	ND	10.0	15.1	ug/L	151 a	4.9	SW846 8260B
Trichloroethene	**0.24**	**10.0**	**8.35**	**ug/L**	**81**		**SW846 8260B**
	0.24	**10.0**	**8.02**	**ug/L**	**78**	**4.1**	**SW846 8260B**
Trichlorofluoromethane	ND	10.0	9.15	ug/L	91		SW846 8260B
	ND	10.0	8.47	ug/L	85	7.7	SW846 8260B

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MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: H6D030205 **Work Order #...:** H2HP31AC-MS **Matrix.....:** WATER
MS Lot-Sample #: H6D030205-004 H2HP31AD-MSD

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
1,2,3-Trichloropropane	ND	10.0	15.2	ug/L	152 a		SW846 8260B
	ND	10.0	15.7	ug/L	157 a	3.1	SW846 8260B
1,2,4-Trimethylbenzene	ND	10.0		ug/L	0.0		SW846 8260B
	ND	10.0		ug/L	0.0	0.0	SW846 8260B
1,3,5-Trimethylbenzene	ND	10.0		ug/L	0.0		SW846 8260B
	ND	10.0		ug/L	0.0	0.0	SW846 8260B
Vinyl chloride	ND	10.0		ug/L	1.4 a		SW846 8260B
	ND	10.0		ug/L	0.0	200	SW846 8260B
m-Xylene & p-Xylene	ND	20.0		ug/L	0.0		SW846 8260B
	ND	20.0		ug/L	0.0	0.0	SW846 8260B
o-Xylene	ND	10.0		ug/L	0.0		SW846 8260B
	ND	10.0		ug/L	0.0	0.0	SW846 8260B
Xylenes (total)	ND	30.0		ug/L	0.0		SW846 8260B
	ND	30.0		ug/L	0.0	0.0	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	139 *	(79 - 120)
	136 *	(79 - 120)
1,2-Dichloroethane-d4	184 *	(71 - 127)
	190 *	(71 - 127)
Toluene-d8	81	(80 - 120)
	80	(80 - 120)
Bromofluorobenzene	89	(69 - 126)
	90	(69 - 126)

NOTE(S):

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

Bold print denotes control parameters

* Surrogate recovery is outside stated control limits.

a Spiked analyte recovery is outside stated control limits.

p Relative percent difference (RPD) is outside stated control limits.

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: H6D030205 **Work Order #...:** H2HQD1AC-MS **Matrix.....:** WATER
MS Lot-Sample #: H6D030205-005 H2HQD1AD-MSD
Date Sampled...: 03/28/06 **Date Received..:** 04/02/06
Prep Date.....: 04/06/06 **Analysis Date..:** 04/07/06
Prep Batch #...: 6096330
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Acetone	102	(43 - 141)			SW846 8260B
	86	(43 - 141)	15	(0-50)	SW846 8260B
Acrylonitrile	99	(50 - 130)			SW846 8260B
	102	(50 - 130)	2.9	(0-30)	SW846 8260B
Benzene	**81**	**(73 - 125)**			**SW846 8260B**
	86	**(73 - 125)**	**5.3**	**(0-20)**	**SW846 8260B**
Bromobenzene	92	(77 - 122)			SW846 8260B
	95	(77 - 122)	3.9	(0-20)	SW846 8260B
Bromochloromethane	92	(73 - 124)			SW846 8260B
	98	(73 - 124)	6.0	(0-21)	SW846 8260B
Bromodichloromethane	84	(57 - 129)			SW846 8260B
	85	(57 - 129)	1.1	(0-22)	SW846 8260B
Bromoform	119	(49 - 141)			SW846 8260B
	143 a	(49 - 141)	4.6	(0-27)	SW846 8260B
Bromomethane	110	(30 - 168)			SW846 8260B
	117	(30 - 168)	6.4	(0-29)	SW846 8260B
2-Butanone	106	(50 - 143)			SW846 8260B
	103	(50 - 143)	2.8	(0-37)	SW846 8260B
n-Butylbenzene	82	(48 - 135)			SW846 8260B
	87	(48 - 135)	5.5	(0-21)	SW846 8260B
sec-Butylbenzene	83	(52 - 135)			SW846 8260B
	87	(52 - 135)	4.8	(0-20)	SW846 8260B
tert-Butylbenzene	83	(54 - 130)			SW846 8260B
	90	(54 - 130)	8.0	(0-20)	SW846 8260B
Carbon disulfide	87	(60 - 132)			SW846 8260B
	92	(60 - 132)	5.6	(0-20)	SW846 8260B
Carbon tetrachloride	86	(53 - 133)			SW846 8260B
	91	(53 - 133)	5.3	(0-29)	SW846 8260B
Chlorobenzene	**85**	**(71 - 125)**			**SW846 8260B**
	93	**(71 - 125)**	**9.6**	**(0-20)**	**SW846 8260B**
Chlorodibromomethane	96	(61 - 132)			SW846 8260B
	114	(61 - 132)	8.0	(0-27)	SW846 8260B
Chloroethane	96	(61 - 151)			SW846 8260B
	103	(61 - 151)	7.4	(0-20)	SW846 8260B
Chloroform	86	(66 - 122)			SW846 8260B
	91	(66 - 122)	5.4	(0-20)	SW846 8260B
Chloromethane	99	(46 - 140)			SW846 8260B
	105	(46 - 140)	5.2	(0-20)	SW846 8260B
2-Chlorotoluene	80	(55 - 131)			SW846 8260B
	88	(55 - 131)	9.1	(0-20)	SW846 8260B

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MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: H6D030205 **Work Order #...:** H2HQD1AC-MS **Matrix.....:** WATER
MS Lot-Sample #: H6D030205-005 H2HQD1AD-MSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
4-Chlorotoluene	77	(55 - 133)			SW846 8260B
	88	(55 - 133)	13	(0-20)	SW846 8260B
1,2-Dibromo-3-chloro-propane	93	(41 - 143)			SW846 8260B
	105	(41 - 143)	12	(0-38)	SW846 8260B
1,2-Dibromoethane	92	(65 - 123)			SW846 8260B
	99	(65 - 123)	7.4	(0-20)	SW846 8260B
Dibromomethane	95	(64 - 126)			SW846 8260B
	92	(64 - 126)	3.0	(0-21)	SW846 8260B
1,2-Dichlorobenzene	85	(66 - 123)			SW846 8260B
	92	(66 - 123)	7.2	(0-20)	SW846 8260B
1,3-Dichlorobenzene	85	(67 - 123)			SW846 8260B
	92	(67 - 123)	7.3	(0-20)	SW846 8260B
1,4-Dichlorobenzene	84	(65 - 126)			SW846 8260B
	93	(65 - 126)	10	(0-20)	SW846 8260B
Dichlorodifluoromethane	89	(32 - 151)			SW846 8260B
	93	(32 - 151)	4.0	(0-25)	SW846 8260B
1,1-Dichloroethane	88	(68 - 127)			SW846 8260B
	94	(68 - 127)	6.4	(0-20)	SW846 8260B
1,2-Dichloroethane	97	(62 - 126)			SW846 8260B
	99	(62 - 126)	2.4	(0-20)	SW846 8260B
cis-1,2-Dichloroethene	85	(56 - 134)			SW846 8260B
	90	(56 - 134)	5.6	(0-20)	SW846 8260B
trans-1,2-Dichloroethene	86	(70 - 124)			SW846 8260B
	89	(70 - 124)	4.0	(0-20)	SW846 8260B
1,1-Dichloroethene	**94**	**(62 - 128)**			**SW846 8260B**
	102	**(62 - 128)**	**8.9**	**(0-26)**	**SW846 8260B**
1,2-Dichloropropane	91	(72 - 122)			SW846 8260B
	96	(72 - 122)	5.5	(0-20)	SW846 8260B
1,3-Dichloropropane	85	(68 - 122)			SW846 8260B
	92	(68 - 122)	7.4	(0-20)	SW846 8260B
2,2-Dichloropropane	75	(34 - 149)			SW846 8260B
	80	(34 - 149)	6.0	(0-32)	SW846 8260B
cis-1,3-Dichloropropene	90	(50 - 130)			SW846 8260B
	92	(50 - 130)	2.0	(0-24)	SW846 8260B
trans-1,3-Dichloropropene	78	(42 - 132)			SW846 8260B
	84	(42 - 132)	7.4	(0-27)	SW846 8260B
1,1-Dichloropropene	89	(71 - 122)			SW846 8260B
	90	(71 - 122)	0.98	(0-20)	SW846 8260B
Ethylbenzene	86	(70 - 130)			SW846 8260B
	93	(70 - 130)	8.0	(0-20)	SW846 8260B

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MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: H6D030205 **Work Order #...:** H2HQD1AC-MS **Matrix.....:** WATER
MS Lot-Sample #: H6D030205-005 H2HQD1AD-MSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Hexachlorobutadiene	92	(58 - 123)			SW846 8260B
	97	(58 - 123)	4.9	(0-25)	SW846 8260B
2-Hexanone	104	(57 - 132)			SW846 8260B
	108	(57 - 132)	3.6	(0-50)	SW846 8260B
Isopropylbenzene	88	(69 - 130)			SW846 8260B
	91	(69 - 130)	4.3	(0-20)	SW846 8260B
p-Isopropyltoluene	83	(53 - 132)			SW846 8260B
	89	(53 - 132)	7.6	(0-20)	SW846 8260B
Methylene chloride	83	(53 - 131)			SW846 8260B
	80	(53 - 131)	2.8	(0-20)	SW846 8260B
4-Methyl-2-pentanone	105	(61 - 133)			SW846 8260B
	106	(61 - 133)	1.6	(0-23)	SW846 8260B
Naphthalene	80	(44 - 141)			SW846 8260B
	97	(44 - 141)	19	(0-38)	SW846 8260B
n-Propylbenzene	81	(53 - 136)			SW846 8260B
	88	(53 - 136)	8.3	(0-20)	SW846 8260B
Styrene	3.7 a	(69 - 129)			SW846 8260B
	3.3 a	(69 - 129)	11	(0-20)	SW846 8260B
1,1,1,2-Tetrachloroethane	86	(63 - 127)			SW846 8260B
	93	(63 - 127)	8.6	(0-25)	SW846 8260B
1,1,2,2-Tetrachloroethane	98	(65 - 128)			SW846 8260B
	97	(65 - 128)	1.4	(0-20)	SW846 8260B
Tetrachloroethene	85	(66 - 136)			SW846 8260B
	91	(66 - 136)	7.3	(0-20)	SW846 8260B
Toluene	**83**	**(69 - 129)**			**SW846 8260B**
	91	**(69 - 129)**	**8.3**	**(0-20)**	**SW846 8260B**
1,2,3-Trichlorobenzene	100	(56 - 131)			SW846 8260B
	110	(56 - 131)	8.9	(0-36)	SW846 8260B
1,2,4-Trichloro-benzene	94	(59 - 129)			SW846 8260B
	102	(59 - 129)	7.8	(0-28)	SW846 8260B
1,1,1-Trichloroethane	94	(55 - 129)			SW846 8260B
	97	(55 - 129)	3.0	(0-24)	SW846 8260B
1,1,2-Trichloroethane	93	(65 - 124)			SW846 8260B
	96	(65 - 124)	2.7	(0-20)	SW846 8260B
Trichloroethene	**91**	**(56 - 137)**			**SW846 8260B**
	94	**(56 - 137)**	**2.9**	**(0-20)**	**SW846 8260B**
Trichlorofluoromethane	106	(61 - 144)			SW846 8260B
	107	(61 - 144)	1.6	(0-20)	SW846 8260B
1,2,3-Trichloropropane	77	(54 - 128)			SW846 8260B
	83	(54 - 128)	8.0	(0-32)	SW846 8260B

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MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: H6D030205 **Work Order #...:** H2HQD1AC-MS **Matrix.....:** WATER
MS Lot-Sample #: H6D030205-005 H2HQD1AD-MSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
1,2,4-Trimethylbenzene	79	(55 - 130)			SW846 8260B
	88	(55 - 130)	11	(0-20)	SW846 8260B
1,3,5-Trimethylbenzene	31 a	(56 - 133)			SW846 8260B
	61 p	(56 - 133)	64	(0-20)	SW846 8260B
Vinyl chloride	104	(65 - 139)			SW846 8260B
	104	(65 - 139)	0.21	(0-21)	SW846 8260B
m-Xylene & p-Xylene	88	(65 - 137)			SW846 8260B
	93	(65 - 137)	4.5	(0-20)	SW846 8260B
o-Xylene	90	(69 - 129)			SW846 8260B
	95	(69 - 129)	6.0	(0-20)	SW846 8260B
Xylenes (total)	89	(67 - 134)			SW846 8260B
	93	(67 - 134)	5.0	(0-20)	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	111	(79 - 120)
	111	(79 - 120)
1,2-Dichloroethane-d4	114	(71 - 127)
	109	(71 - 127)
Toluene-d8	100	(80 - 120)
	102	(80 - 120)
Bromofluorobenzene	91	(69 - 126)
	92	(69 - 126)

NOTE(S):

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

Bold print denotes control parameters

a Spiked analyte recovery is outside stated control limits.

p Relative percent difference (RPD) is outside stated control limits.

MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: H6D030205 **Work Order #...:** H2HQD1AC-MS **Matrix.....:** WATER
MS Lot-Sample #: H6D030205-005 H2HQD1AD-MSD
Date Sampled...: 03/28/06 **Date Received..:** 04/02/06
Prep Date.....: 04/06/06 **Analysis Date..:** 04/07/06
Prep Batch #...: 6096330
Dilution Factor: 1

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
Acetone	4.4	40.0	45.1	ug/L	102		SW846 8260B
	4.4	40.0	38.6	ug/L	86	15	SW846 8260B
Acrylonitrile	ND	200	197	ug/L	99		SW846 8260B
	ND	200	203	ug/L	102	2.9	SW846 8260B
Benzene	**ND**	**10.0**	**8.12**	**ug/L**	**81**		**SW846 8260B**
	ND	**10.0**	**8.56**	**ug/L**	**86**	**5.3**	**SW846 8260B**
Bromobenzene	ND	10.0	9.15	ug/L	92		SW846 8260B
	ND	10.0	9.51	ug/L	95	3.9	SW846 8260B
Bromochloromethane	ND	10.0	9.21	ug/L	92		SW846 8260B
	ND	10.0	9.79	ug/L	98	6.0	SW846 8260B
Bromodichloromethane	3.2	10.0	11.6	ug/L	84		SW846 8260B
	3.2	10.0	11.8	ug/L	85	1.1	SW846 8260B
Bromoform	40	10.0	52.3	ug/L	119		SW846 8260B
	40	10.0	54.7	ug/L	143 a	4.6	SW846 8260B
Bromomethane	ND	10.0	11.0	ug/L	110		SW846 8260B
	ND	10.0	11.7	ug/L	117	6.4	SW846 8260B
2-Butanone	ND	40.0	42.3	ug/L	106		SW846 8260B
	ND	40.0	41.1	ug/L	103	2.8	SW846 8260B
n-Butylbenzene	ND	10.0	8.25	ug/L	82		SW846 8260B
	ND	10.0	8.72	ug/L	87	5.5	SW846 8260B
sec-Butylbenzene	ND	10.0	8.27	ug/L	83		SW846 8260B
	ND	10.0	8.68	ug/L	87	4.8	SW846 8260B
tert-Butylbenzene	ND	10.0	8.27	ug/L	83		SW846 8260B
	ND	10.0	8.96	ug/L	90	8.0	SW846 8260B
Carbon disulfide	ND	10.0	8.70	ug/L	87		SW846 8260B
	ND	10.0	9.19	ug/L	92	5.6	SW846 8260B
Carbon tetrachloride	ND	10.0	8.62	ug/L	86		SW846 8260B
	ND	10.0	9.09	ug/L	91	5.3	SW846 8260B
Chlorobenzene	**ND**	**10.0**	**8.48**	**ug/L**	**85**		**SW846 8260B**
	ND	**10.0**	**9.34**	**ug/L**	**93**	**9.6**	**SW846 8260B**
Chlorodibromomethane	13	10.0	22.1	ug/L	96		SW846 8260B
	13	10.0	24.0	ug/L	114	8.0	SW846 8260B
Chloroethane	ND	10.0	9.55	ug/L	96		SW846 8260B
	ND	10.0	10.3	ug/L	103	7.4	SW846 8260B
Chloroform	0.56	10.0	9.13	ug/L	86		SW846 8260B
	0.56	10.0	9.64	ug/L	91	5.4	SW846 8260B
Chloromethane	ND	10.0	9.93	ug/L	99		SW846 8260B
	ND	10.0	10.5	ug/L	105	5.2	SW846 8260B
2-Chlorotoluene	ND	10.0	8.03	ug/L	80		SW846 8260B
	ND	10.0	8.80	ug/L	88	9.1	SW846 8260B

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MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: H6D030205 **Work Order #...:** H2HQD1AC-MS **Matrix.....:** WATER
MS Lot-Sample #: H6D030205-005 H2HQD1AD-MSD

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
4-Chlorotoluene	ND	10.0	7.73	ug/L	77		SW846 8260B
	ND	10.0	8.83	ug/L	88	13	SW846 8260B
1,2-Dibromo-3-chloro-propane	ND	10.0	9.31	ug/L	93		SW846 8260B
	ND	10.0	10.5	ug/L	105	12	SW846 8260B
1,2-Dibromoethane	ND	10.0	9.16	ug/L	92		SW846 8260B
	ND	10.0	9.86	ug/L	99	7.4	SW846 8260B
Dibromomethane	ND	10.0	9.46	ug/L	95		SW846 8260B
	ND	10.0	9.18	ug/L	92	3.0	SW846 8260B
1,2-Dichlorobenzene	ND	10.0	8.52	ug/L	85		SW846 8260B
	ND	10.0	9.16	ug/L	92	7.2	SW846 8260B
1,3-Dichlorobenzene	ND	10.0	8.53	ug/L	85		SW846 8260B
	ND	10.0	9.18	ug/L	92	7.3	SW846 8260B
1,4-Dichlorobenzene	ND	10.0	8.43	ug/L	84		SW846 8260B
	ND	10.0	9.33	ug/L	93	10	SW846 8260B
Dichlorodifluoromethane	ND	10.0	8.92	ug/L	89		SW846 8260B
	ND	10.0	9.28	ug/L	93	4.0	SW846 8260B
1,1-Dichloroethane	ND	10.0	8.77	ug/L	88		SW846 8260B
	ND	10.0	9.36	ug/L	94	6.4	SW846 8260B
1,2-Dichloroethane	ND	10.0	9.66	ug/L	97		SW846 8260B
	ND	10.0	9.89	ug/L	99	2.4	SW846 8260B
cis-1,2-Dichloroethene	ND	10.0	8.52	ug/L	85		SW846 8260B
	ND	10.0	9.01	ug/L	90	5.6	SW846 8260B
trans-1,2-Dichloroethene	ND	10.0	8.59	ug/L	86		SW846 8260B
	ND	10.0	8.94	ug/L	89	4.0	SW846 8260B
1,1-Dichloroethene	**ND**	**10.0**	**9.36**	**ug/L**	**94**		**SW846 8260B**
	ND	**10.0**	**10.2**	**ug/L**	**102**	**8.9**	**SW846 8260B**
1,2-Dichloropropane	ND	10.0	9.10	ug/L	91		SW846 8260B
	ND	10.0	9.62	ug/L	96	5.5	SW846 8260B
1,3-Dichloropropane	ND	10.0	8.51	ug/L	85		SW846 8260B
	ND	10.0	9.17	ug/L	92	7.4	SW846 8260B
2,2-Dichloropropane	ND	10.0	7.52	ug/L	75		SW846 8260B
	ND	10.0	7.99	ug/L	80	6.0	SW846 8260B
cis-1,3-Dichloropropene	ND	10.0	9.03	ug/L	90		SW846 8260B
	ND	10.0	9.21	ug/L	92	2.0	SW846 8260B
trans-1,3-Dichloropropene	ND	10.0	7.85	ug/L	78		SW846 8260B
	ND	10.0	8.45	ug/L	84	7.4	SW846 8260B
1,1-Dichloropropene	ND	10.0	8.91	ug/L	89		SW846 8260B
	ND	10.0	9.00	ug/L	90	0.98	SW846 8260B
Ethylbenzene	ND	10.0	8.58	ug/L	86		SW846 8260B
	ND	10.0	9.29	ug/L	93	8.0	SW846 8260B

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MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: H6D030205 **Work Order #...:** H2HQD1AC-MS **Matrix.....:** WATER
MS Lot-Sample #: H6D030205-005 H2HQD1AD-MSD

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
Hexachlorobutadiene	ND	10.0	9.20	ug/L	92		SW846 8260B
	ND	10.0	9.66	ug/L	97	4.9	SW846 8260B
2-Hexanone	ND	40.0	41.6	ug/L	104		SW846 8260B
	ND	40.0	43.2	ug/L	108	3.6	SW846 8260B
Isopropylbenzene	ND	10.0	8.76	ug/L	88		SW846 8260B
	ND	10.0	9.15	ug/L	91	4.3	SW846 8260B
p-Isopropyltoluene	ND	10.0	8.25	ug/L	83		SW846 8260B
	ND	10.0	8.90	ug/L	89	7.6	SW846 8260B
Methylene chloride	0.55	10.0	8.81	ug/L	83		SW846 8260B
	0.55	10.0	8.57	ug/L	80	2.8	SW846 8260B
4-Methyl-2-pentanone	ND	40.0	41.9	ug/L	105		SW846 8260B
	ND	40.0	42.5	ug/L	106	1.6	SW846 8260B
Naphthalene	ND	10.0	8.00	ug/L	80		SW846 8260B
	ND	10.0	9.66	ug/L	97	19	SW846 8260B
n-Propylbenzene	ND	10.0	8.08	ug/L	81		SW846 8260B
	ND	10.0	8.78	ug/L	88	8.3	SW846 8260B
Styrene	ND	10.0	0.367	ug/L	3.7 a		SW846 8260B
	ND	10.0	0.329	ug/L	3.3 a	11	SW846 8260B
1,1,1,2-Tetrachloroethane	ND	10.0	8.56	ug/L	86		SW846 8260B
	ND	10.0	9.33	ug/L	93	8.6	SW846 8260B
1,1,2,2-Tetrachloroethane	ND	10.0	9.79	ug/L	98		SW846 8260B
	ND	10.0	9.65	ug/L	97	1.4	SW846 8260B
Tetrachloroethene	0.33	10.0	8.79	ug/L	85		SW846 8260B
	0.33	10.0	9.46	ug/L	91	7.3	SW846 8260B
Toluene	**ND**	**10.0**	**8.33**	**ug/L**	**83**		**SW846 8260B**
	ND	**10.0**	**9.05**	**ug/L**	**91**	**8.3**	**SW846 8260B**
1,2,3-Trichlorobenzene	ND	10.0	10.0	ug/L	100		SW846 8260B
	ND	10.0	11.0	ug/L	110	8.9	SW846 8260B
1,2,4-Trichloro-benzene	ND	10.0	9.40	ug/L	94		SW846 8260B
	ND	10.0	10.2	ug/L	102	7.8	SW846 8260B
1,1,1-Trichloroethane	ND	10.0	9.40	ug/L	94		SW846 8260B
	ND	10.0	9.68	ug/L	97	3.0	SW846 8260B
1,1,2-Trichloroethane	ND	10.0	9.32	ug/L	93		SW846 8260B
	ND	10.0	9.58	ug/L	96	2.7	SW846 8260B
Trichloroethene	**ND**	**10.0**	**9.10**	**ug/L**	**91**		**SW846 8260B**
	ND	**10.0**	**9.37**	**ug/L**	**94**	**2.9**	**SW846 8260B**
Trichlorofluoromethane	ND	10.0	10.6	ug/L	106		SW846 8260B
	ND	10.0	10.7	ug/L	107	1.6	SW846 8260B
1,2,3-Trichloropropane	ND	10.0	7.70	ug/L	77		SW846 8260B
	ND	10.0	8.34	ug/L	83	8.0	SW846 8260B

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MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: H6D030205 **Work Order #...:** H2HQD1AC-MS **Matrix.....:** WATER
MS Lot-Sample #: H6D030205-005 H2HQD1AD-MSD

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
1,2,4-Trimethylbenzene	ND	10.0	7.90	ug/L	79		SW846 8260B
	ND	10.0	8.84	ug/L	88	11	SW846 8260B
1,3,5-Trimethylbenzene	ND	10.0	3.13	ug/L	31 a		SW846 8260B
	ND	10.0	6.07	ug/L	61 p	64	SW846 8260B
Vinyl chloride	ND	10.0	10.4	ug/L	104		SW846 8260B
	ND	10.0	10.4	ug/L	104	0.21	SW846 8260B
m-Xylene & p-Xylene	ND	20.0	17.7	ug/L	88		SW846 8260B
	ND	20.0	18.5	ug/L	93	4.5	SW846 8260B
o-Xylene	ND	10.0	8.97	ug/L	90		SW846 8260B
	ND	10.0	9.53	ug/L	95	6.0	SW846 8260B
Xylenes (total)	ND	30.0	26.7	ug/L	89		SW846 8260B
	ND	30.0	28.0	ug/L	93	5.0	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	111	(79 - 120)
	111	(79 - 120)
1,2-Dichloroethane-d4	114	(71 - 127)
	109	(71 - 127)
Toluene-d8	100	(80 - 120)
	102	(80 - 120)
Bromofluorobenzene	91	(69 - 126)
	92	(69 - 126)

NOTE(S):

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

Bold print denotes control parameters

a Spiked analyte recovery is outside stated control limits.

p Relative percent difference (RPD) is outside stated control limits.

Sample Receipt Documentation

Request for Analysis/Chain-of-Custody – RFA/COC #012 [Process Sample Volatiles]
Focus/US Filter Westates Carbon
Comprehensive Performance Test at Parker, Arizona

STL Knoxville Lot Number: HWD030205
STL Knoxville Project Number: 142541

NOTE: After Log-In, please give the original completed RFA/COC to Patti Carswell.

Project Identification:	**Westates Carbon CPT**
STL Knoxville Project Number:	142541
STL Contact:	Ms. Patti Carswell (865) 291-3010
STL - ACS Project Manager:	Dr. William C. Anderson (865) 291-3080

Laboratory Deliverable Turnaround Requirements:	
Analytical Due Date: (Review-Released Data)	21 Days from Lab Receipt
Data Package Due Date:	21 Days from Lab Receipt
Laboratory Destination:	STL Knoxville 5815 Middlebrook Pike Knoxville, Tennessee 37921 (865) 291-3000
Courier:	Federal Express

Analytical Testing QC Requirements:
The Legend for Project-Specific Quality Control Testing is designated in the "QC" column as follows:
"MS" = Matrix Spike, "MSD" = Matrix Spike Duplicate,
"DUP" = Duplicate, and "PDS" = Post Digestion Spike

Project Deliverables:
Report analytical results on R-02 Reports and in data packages.
Include "Field Number", "Sample Type", and "Run Number" on all R-02 Reports.

Holding Time Requirements:

Volatile Organic Compounds (VOCs)	14 Days to Analysis.

Field Sample No./ Sample Coding ID	Sample Collection Date	Project QC Require-ments	Sample Bottle/ Container	Sample Type/Analysis	Analytical Specifications
G-2889-R1-Spent Activated Carbon	3-28-06	MS/MSD	125 mL Powder Jar	**Spent Activated Carbon - Run #1** Volatiles Analysis	Prepare and analyze the sample for the target Volatiles including TICs by purge and trap & GC/MS by Method SW-8260B.
G-2893-R1-Scrubber Blowdown	3-28-06	MS/MSD	3 X 12 X 40 mL VOA Vials	**Scrubber Blowdown - Run #1** Volatiles Analysis	Prepare and analyze the sample for the target Volatiles including TICs by purge and trap & GC/MS by Method SW-8260B.
G-2897-R1-POTW Discharge	3-28-06	MS/MSD	3 X 12 X 40 mL VOA Vials	**POTW Discharge - Run #1** Volatiles Analysis	Prepare and analyze the sample for the target Volatiles including TICs by purge and trap & GC/MS by Method SW-8260B.
G-2901-R1-Caustic Feed	3-28-06	MS/MSD	3 X 40 mL VOA Vials	**Caustic Feed - Run #1** Volatiles Analysis	Prepare and analyze the sample for the target Volatiles including TICs by purge and trap & GC/MS by Method SW-8260B.
G-2905-R1-Make-Up Water	3-28-06	MS/MSD	3 X 12 X 40 mL VOA Vials	**Make-Up Water - Run #1** Volatiles Analysis	Prepare and analyze the sample for the target Volatiles including TICs by purge and trap & GC/MS by Method SW-8260B.
G-2987-R2-Spent Activated Carbon	3-29-06		125 mL Powder Jar	**Spent Activated Carbon - Run #2** Volatiles Analysis	Prepare and analyze the sample for the target Volatiles including TICs by purge and trap & GC/MS by Method SW-8260B.

Request for Analysis/Chain-of-Custody – RFA/COC #012 [Process Sample Volatiles]
Focus/US Filter Westates Carbon
Comprehensive Performance Test at Parker, Arizona

Field Sample No./ Sample Coding ID	Sample Collection Date	Project QC Requirements	Sample Bottle/ Container	Sample Type/Analysis	Analytical Specifications
G-2991-R2-Scrubber Blowdown	3-29-06		12 X 40 mL VOA Vials	**Scrubber Blowdown - Run #2** Volatiles Analysis	Prepare and analyze the sample for the target Volatiles including TICs by purge and trap & GC/MS by Method SW-8260B.
G-2995-R2-POTW Discharge	3-29-06		12 X 40 mL VOA Vials	**POTW Discharge - Run #2** Volatiles Analysis	Prepare and analyze the sample for the target Volatiles including TICs by purge and trap & GC/MS by Method SW-8260B.
G-2999-R2-Caustic Feed	Not Sampled		40 mL VOA Vial	**Caustic Feed - Run #2** Volatiles Analysis	Prepare and analyze the sample for the target Volatiles including TICs by purge and trap & GC/MS by Method SW-8260B.
G-3003-R2-Make-Up Water	3-29-06		12 X 40 mL VOA Vials	**Make-Up Water - Run #2** Volatiles Analysis	Prepare and analyze the sample for the target Volatiles including TICs by purge and trap & GC/MS by Method SW-8260B.
G-3070-R3-Spent Activated Carbon	3-30-06		125 mL Powder Jar	**Spent Activated Carbon - Run #3** Volatiles Analysis	Prepare and analyze the sample for the target Volatiles including TICs by purge and trap & GC/MS by Method SW-8260B.
G-3074-R3-Scrubber Blowdown	3-30-06		12 X 40 mL VOA Vials	**Scrubber Blowdown - Run #3** Volatiles Analysis	Prepare and analyze the sample for the target Volatiles including TICs by purge and trap & GC/MS by Method SW-8260B.
G-3078-R3-POTW Discharge	3-30-06		12 X 40 mL VOA Vials	**POTW Discharge - Run #3** Volatiles Analysis	Prepare and analyze the sample for the target Volatiles including TICs by purge and trap & GC/MS by Method SW-8260B.
G-3082-R3-Caustic Feed	Did Not Sample		40 mL VOA Vial	**Caustic Feed - Run #3** Volatiles Analysis	Prepare and analyze the sample for the target Volatiles including TICs by purge and trap & GC/MS by Method SW-8260B.
G-2886-R3-Make-Up Water	3-30-06		12 X 40 mL VOA Vials	**Make-Up Water - Run #3** Volatiles Analysis	Prepare and analyze the sample for the target Volatiles including TICs by purge and trap & GC/MS by Method SW-8260B.

missing 1, 4, 5

Request for Analysis/Chain-of-Custody – RFA/COC #012 [Process Sample Volatiles]
Focus/US Filter Westates Carbon
Comprehensive Performance Test at Parker, Arizona

H6D0302 05

Sample Receipt Log and Condition of the Samples Upon Receipt:

Please fill in the following information:	Comments (Please write "NONE" if no comment applicable)
(1) Record the identities of any samples that were listed on the RFA but were not found in the sample shipment.	See Attached CUR
(2) Record the sample shipping cooler temperature of all coolers transporting samples listed on this RFA:	5.0 °C
(3) Record any apparent sample loss/breakage.	N/A
(4) Record any unidentified samples transported with this shipment of samples:	N/A
(5) Indicate if all samples were received according to the project's required specifications (i.e. no nonconformances):	See attached CUR

Custody Transfer:

	Name	Company	Date/Time
Relinquished By:		Hand delivered	
Accepted By:		STL Knoxville	4/2/06 1625
Relinquished By:			
Accepted By:			
Relinquished By:			
Accepted By:			
Relinquished By:			
Accepted By:			

Figure 7-3. Example Field Sampling Record

Westates,Carbon – Arizona, Inc. Parker, Arizona Project No. 010111

Test # 1 Run # 3 TW 3-30-06 Date & Time of Collection 3-30-06

Frequency 15 ~~minute~~ min.

Sampler(s) Debra Foster

Sample Type (circle one): (Composite) Aliquot Grab

Sample Description (if grab sample was taken before during or after test):

Spent Carbon

Sample Source:

Feed Belt

Composite Sampling Time Log

1) 1150	2) 1205	3) 1220	4) 1235	5) 1530	6) 1545
7) 1600	8) 1615	9) 1630	10) 1645	11) 1700	12) 1715
13) 1730	14) 1745	15) 1800	16) 1815	17) 1830	18) 1845
19) 1900	20) 1915	21)_____	22)_____	23)_____	24)_____
25)_____	26)_____	27)_____	28)_____	29)_____	30)_____

Volume of each Grab _____ Total Number of Grabs _____

Final pH of Sample _____ Final Volume of Sample _____

Sample Container (circle one):

1 L Boston Round	1 L Wide-Mouth	500 mL Wide-Mouth
40 mL VOA Vial	20 mL VOA Vial	1 gallon. Amber Wheaton Jug
120 mL Wide-Mouth	2.5 L Jug	Other: _____

Comments:

Samplers Signature/Date: D. Foster

Figure 7-3

Figure 7-3. Example Field Sampling Record

Westates,Carbon – Arizona, Inc. Parker, Arizona **Project No. 010111**

Test # 1 Run # 3 Date & Time of Collection 3-30-06

Frequency 30 min.

Sampler(s) Teri White

Sample Type (circle one): (Composite) Aliquot Grab

Sample Description (if grab sample was taken before during or after test):

POTW

Sample Source:

Tap

Composite Sampling Time Log

(1) 11:50	2) 12:20	(3) 15:30	4) 16:00	(5) 16:30	6) 16:58
(7) 17:30	8) 18:00	(9) 18:30	10) 19:00	11)_____	12)_____
13)_____	14)_____	15)_____	16)_____	17)_____	18)_____
19)_____	20)_____	21)_____	22)_____	23)_____	24)_____
25)_____	26)_____	27)_____	28)_____	29)_____	30)_____

Volume of each Grab _____ Total Number of Grabs _____

Final pH of Sample _____ Final Volume of Sample _____

Sample Container (circle one):

1 L Boston Round	1 L Wide-Mouth	500 mL Wide-Mouth
40 mL VOA Vial	20 mL VOA Vial	1 gallon. Amber Wheaton Jug
120 mL Wide-Mouth	2.5 L Jug	Other: _____

Comments:

Test on hold from 12:39 to 15:30

Samplers Signature/Date: Teri White 3-30-06

Figure 7-3

12:39 on hold
restart 15:30

Figure 7-3. Example Field Sampling Record

Westates,Carbon – Arizona, Inc. Parker, Arizona **Project No. 010111**

Test # 1 Run # 3 Date & Time of Collection 3-30-06

Frequency 30 min.

Sampler(s) Teri White

Sample Type (circle one): (Composite) Aliquot Grab

Sample Description (if grab sample was taken before during or after test):

Scrubber Blowdown

Sample Source:

Tap

Composite Sampling Time Log

(1) 11:58	2) 12:22	(3) 15:37	4) 16:03	(5) 16:34	6) 17:01
(7) 17:36	8) 18:03	(9) 18:35	10) 19:02	11)_____	12)_____
13)_____	14)_____	15)_____	16)_____	17)_____	18)_____
19)_____	20)_____	21)_____	22)_____	23)_____	24)_____
25)_____	26)_____	27)_____	28)_____	29)_____	30)_____

Volume of each Grab _____ Total Number of Grabs _____

Final pH of Sample _____ Final Volume of Sample _____

Sample Container (circle one):

1 L Boston Round	1 L Wide-Mouth	500 mL Wide-Mouth
40 mL VOA Vial	20 mL VOA Vial	1 gallon. Amber Wheaton Jug
120 mL Wide-Mouth	2.5 L Jug	Other: _____

Comments:

Test on hold from 12:39 to 15:30

Samplers Signature/Date: Teri A White 3-30-06

Figure 7-3

12:39 on hold restart 15:30

Figure 7-3. Example Field Sampling Record

Westates,Carbon – Arizona, Inc. Parker, Arizona **Project No. 010111**

Test # 1 Run # 3 Date & Time of Collection 3-30-06 1205

Frequency Grab

Sampler(s) Teri White

Sample Type (circle one): Composite Aliquot (Grab)

Sample Description (if grab sample was taken before during or after test):

Make-up Water

Sample Source:

Tap

Composite Sampling Time Log

1) 12:05	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)_____

Volume of each Grab _____ Total Number of Grabs _____

Final pH of Sample _____ Final Volume of Sample _____

Sample Container (circle one):

1 L Boston Round	1 L Wide-Mouth	500 mL Wide-Mouth
40 mL VOA Vial	20 mL VOA Vial	1 gallon. Amber Wheaton Jug
120 mL Wide-Mouth	2.5 L Jug	Other: _____

Comments:

_____

_____

Samplers Signature/Date: Teri White 3-30-06

Figure 7-3

Figure 7-3. Example Field Sampling Record

Westates,Carbon – Arizona, Inc. Parker, Arizona Project No. 010111

Test # 1 Run # 1 Date & Time of Collection 3-28-06

Frequency Grab

Sampler(s) Teri White

Sample Type (circle one): Composite Aliquot (Grab)

Sample Description (if grab sample was taken before during or after test):

Make-up Water

Sample Source:

Tap

Composite Sampling Time Log

1) 2:28	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)_____

Volume of each Grab _____ Total Number of Grabs _____

Final pH of Sample _____ Final Volume of Sample _____

Sample Container (circle one):

(1 L Boston Round)	1 L Wide-Mouth	500 mL Wide-Mouth
(40 mL VOA Vial)	20 mL VOA Vial	1 gallon. Amber Wheaton Jug
120 mL Wide-Mouth	2.5 L Jug	(Other: 250 ml bottle)

Comments:

Samplers Signature/Date: Teri White 3.28.06

Figure 7-3

Figure 7-3. Example Field Sampling Record

Westates,Carbon – Arizona, Inc. Parker, Arizona Project No. 010111

Test # 1 Run # 1 Date & Time of Collection 3-28-06

Frequency 15 minutes

Sampler(s) Debra Foster

Sample Type (circle one): (Composite) Aliquot Grab

Sample Description (if grab sample was taken before during or after test):

Spent Carbon

Sample Source:

Feed Belt

Composite Sampling Time Log

1) 12:13	2) 12:28	3) 12:43	4) 1258	5) 1313	6) 1328
7) 1343	8) 1358	9) 1413	10) 1428	11) 1443	12) 1458
13) 1513	14) 1528	15) 1543	16) 1558	17) 1613	18) 1628
19) 1643	20)_____	21)_____	22)_____	23)_____	24)_____
25)_____	26)_____	27)_____	28)_____	29)_____	30)_____

Volume of each Grab _____ Total Number of Grabs _____

Final pH of Sample _____ Final Volume of Sample _____

Sample Container (circle one):

~~1 L Boston Round~~ TW 3-28-06 1 L Wide-Mouth 500 mL Wide-Mouth

~~40 mL VOA Vial~~ 20 mL VOA Vial 1 gallon. Amber Wheaton Jug

120 mL Wide-Mouth 2.5 L Jug Other: 250 powder jar

Comments:

Samplers Signature/Date: D Foster 3/28/06

Figure 7-3. Example Field Sampling Record

Westates,Carbon – Arizona, Inc. Parker, Arizona Project No. 010111

Test # 1 Run # 1 Date & Time of Collection 3-28-06 08:30

Frequency Grab

Sampler(s) Teri White, Debra Foster

Sample Type (circle one): Composite Aliquot (Grab)

Sample Description (if grab sample was taken before during or after test):

Caustic Solution

Sample Source:

Tap

Composite Sampling Time Log

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)_____

Volume of each Grab _____ Total Number of Grabs _____

Final pH of Sample _____ Final Volume of Sample _____

Sample Container (circle one):

1 L Boston Round 1 L Wide-Mouth TJ3 28-06 500 mL Wide-Mouth

(6) 40 mL VOA Vial (3) 20 mL VOA Vial 1 gallon. Amber Wheaton Jug

120 mL Wide-Mouth 2.5 L Jug Other: 4 1 Liter 1-250 ml

Comments:

Samplers Signature/Date: [signature] 5-28-06

Figure 7-3

Figure 7-3. Example Field Sampling Record

Westates,Carbon – Arizona, Inc. Parker, Arizona Project No. 010111

Test # 1 Run # 1 Date & Time of Collection 3-28-06

Frequency 30 minutes

Sampler(s) Teri White

Sample Type (circle one): (Composite) Aliquot Grab

Sample Description (if grab sample was taken before during or after test):

POTW

Sample Source:

Tap

Composite Sampling Time Log

(1) 12:10	2) 12:40	(3) 13:10	4) 13:40	(5) 14:10	6) 14:40
(7) 15:10	8) 15:41	(9) 16:10	10) 16:39	11)_____	12)_____
13)_____	14)_____	15)_____	16)_____	17)_____	18)_____
19)_____	20)_____	21)_____	22)_____	23)_____	24)_____
25)_____	26)_____	27)_____	28)_____	29)_____	30)_____

Volume of each Grab _____ Total Number of Grabs _____

Final pH of Sample _____ Final Volume of Sample _____

Sample Container (circle one):

(1 L Boston Round)	1 L Wide-Mouth	500 mL Wide-Mouth
(40 mL VOA Vial)	20 mL VOA Vial	1 gallon. Amber Wheaton Jug
120 mL Wide-Mouth	2.5 L Jug	(Other: 250 ml bottle)

Comments:

Samplers Signature/Date: Teri White 3-28-06

Figure 7-3

Figure 7-3. Example Field Sampling Record

Westates,Carbon – Arizona, Inc. Parker, Arizona Project No. 010111

Test # 1 Run # 1 Date & Time of Collection 3-28-06

Frequency 30 minutes

Sampler(s) Teri White

Sample Type (circle one): (Composite) Aliquot Grab

Sample Description (if grab sample was taken before during or after test):

Scrubber Water

Sample Source:

Tap

Composite Sampling Time Log

(1) 12:15	2) 12:45	(3) 13:18	4) 13:45	(5) 14:15	6) 14:44
7) 15:14	8) 15:47	9) 16:17	10) 16:41	11)_____	12)_____
13)_____	14)_____	15)_____	16)_____	17)_____	18)_____
19)_____	20)_____	21)_____	22)_____	23)_____	24)_____
25)_____	26)_____	27)_____	28)_____	29)_____	30)_____

Volume of each Grab _____ Total Number of Grabs _____

Final pH of Sample _____ Final Volume of Sample _____

Sample Container (circle one):

(1 L Boston Round)	1 L Wide-Mouth	500 mL Wide-Mouth
(40 mL VOA Vial)	20 mL VOA Vial	1 gallon. Amber Wheaton Jug
120 mL Wide-Mouth	2.5 L Jug	(Other: 250 ml both)

Comments:

Samplers Signature/Date: Teri White 3-28-06

Figure 7-3

Figure 7-3. Example Field Sampling Record

Westates,Carbon – Arizona, Inc. Parker, Arizona Project No. 010111

Test # 1 Run # 2 Date & Time of Collection 3-29-06

Frequency 30 minutes

Sampler(s) Teri White

Sample Type (circle one): (Composite) Aliquot Grab

Sample Description (if grab sample was taken before during or after test):

POTW

Sample Source:

Tap

Composite Sampling Time Log

(1) 11:15	2) 11:45	(3) 12:15	4) 12:45	(5) 13:15	6) 13:45
(7) 14:15	8) 14:45	(9) 15:15	10) 15:45	11) 16:15	12) 16:45
13)_____	14)_____	15)_____	16)_____	17)_____	18)_____
19)_____	20)_____	21)_____	22)_____	23)_____	24)_____
25)_____	26)_____	27)_____	28)_____	29)_____	30)_____

Volume of each Grab _____ Total Number of Grabs _____

Final pH of Sample _____ Final Volume of Sample _____

Sample Container (circle one):

(1 L Boston Round)	1 L Wide-Mouth	500 mL Wide-Mouth
(40 mL VOA Vial)	20 mL VOA Vial	1 gallon. Amber Wheaton Jug
120 mL Wide-Mouth	2.5 L Jug	Other: (250 ml Bottle)

Comments:

_____

_____

Samplers Signature/Date: Teri M White

Figure 7-3. Example Field Sampling Record

Westates,Carbon – Arizona, Inc. Parker, Arizona Project No. 010111

Test # 1 Run # 2 Date & Time of Collection 3-29-06

Frequency 30 minutes

Sampler(s) Teri White

Sample Type (circle one): (Composite) Aliquot Grab

Sample Description (if grab sample was taken before during or after test):

Scrubber Blowdown

Sample Source:

Tap

Composite Sampling Time Log

(1) 11:25	2) 11:48	(3) 12:18	4) 12:47	(5) 13:20	6) 13:47
(7) 14:20	8) 14:47	(9) 15:20	10) 15:46	11) 16:17	12) 16:46
13)_____	14)_____	15)_____	16)_____	17)_____	18)_____
19)_____	20)_____	21)_____	22)_____	23)_____	24)_____
25)_____	26)_____	27)_____	28)_____	29)_____	30)_____

Volume of each Grab _____ Total Number of Grabs _____

Final pH of Sample _____ Final Volume of Sample _____

Sample Container (circle one):

(1 L Boston Round)	1 L Wide-Mouth	500 mL Wide-Mouth
(40 mL VOA Vial)	20 mL VOA Vial	1 gallon. Amber Wheaton Jug
120 mL Wide-Mouth	2.5 L Jug	Other: (250 ml Bottle)

Comments:

Samplers Signature/Date: Teri A White 3-29-06

Figure 7-3

Figure 7-3. Example Field Sampling Record

Westates,Carbon – Arizona, Inc. Parker, Arizona Project No. 010111

Test # 1 Run # 2 Date & Time of Collection 3-29-06

Frequency Grab

Sampler(s) Teri White

Sample Type (circle one): Composite Aliquot (Grab)

Sample Description (if grab sample was taken before during or after test):

Make-up Water

Sample Source:

Tap

Composite Sampling Time Log

1) 11:30	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)

Volume of each Grab _____ Total Number of Grabs _____

Final pH of Sample _____ Final Volume of Sample _____

Sample Container (circle one):

(1 L Boston Round)	1 L Wide-Mouth	500 mL Wide-Mouth
(40 mL VOA Vial)	20 mL VOA Vial	1 gallon. Amber Wheaton Jug
120 mL Wide-Mouth	2.5 L Jug	Other: (250 ml Bottle)

Comments:

Samplers Signature/Date: Teri White 3-29-06

Figure 7-3

Figure 7-3. Example Field Sampling Record

Westates,Carbon – Arizona, Inc. Parker, Arizona Project No. 010111

Test # 1 Run # 2 Date & Time of Collection _____

Frequency Composite 15 minutes

Sampler(s) _____

Sample Type (circle one): (Composite) Aliquot Grab

Sample Description (if grab sample was taken before during or after test):

Spent Carbon

Sample Source:

Feed Belt

Composite Sampling Time Log

1) 1115	2) 1130	3) 1145	4) 1200	5) 1215	6) 1230
7) 1245	8) 1300	9) 1315	10) 1330	11) 1345	12) 1400
13) 1415	14) 1430	15) 1445	16) 1500	17) 1515	18) 1530
19) 1545	20) 1600	21) 1615	22) 1630	23) 1645	24) 1700
25)_____	26)_____	27)_____	28)_____	29)_____	30)_____

Volume of each Grab _____ Total Number of Grabs _____

Final pH of Sample _____ Final Volume of Sample _____

Sample Container (circle one):

1 L Boston Round	1 L Wide-Mouth	500 mL Wide-Mouth
40 mL VOA Vial	20 mL VOA Vial	1 gallon. Amber Wheaton Jug
120 mL Wide-Mouth	2.5 L Jug	Other: _____

Comments:

_____

_____

Samplers Signature/Date: [signature] / [signature] 4/11/4

Figure 7-3

STL KNOXVILLE SAMPLE RECEIPT/CONDITION UPON RECEIPT ANOMALY CHECKLIST

Client: STL KNOXVILLE **Project:** _____ **Lot Number:** H6D030205

Review Items	Yes	No	NA	If No, what was the problem?	Comments/Actions Taken
1. Do sample container labels match COC? (IDs, Dates, Times)		✓		☑ **1a** Do not match COC ☐ **1b** Incomplete information ☐ **1c** Marking smeared ☐ **1d** Label torn ☐ **1e** No label ☐ **1f** COC not received ☑ **1g** Other:	NA 1A, G-2886, LABELED AS G-3086, WILL LOG PER LABEL 1B, G-2893, COC LIST 12 VIALS, RECEIVED 30 VIALS 1G, G-2897 " " " " " " "
2. Is the cooler temperature within limits? (> freezing temp. of water to 6 °C; NC, 1668, 1613B: 0-4°C; VOST: 10°C; MA: 2-6 °C)	✓			☐ **2a** Temp Blank = _____ ☐ **2b** Cooler Temp = _____	1G, G-2901, " " 3 " " 6 " 1G, G-2905, " " 12 " " 6 "
3. Were samples received with correct chemical preservative (excluding Encore)?			✓	☐ **3a** Sample preservative =	1G, G-2991, " " 12 " " 10 "
4. Were custody seals present/intact on cooler and/or containers?		✓		☑ **4a** Not present ☐ **4b** Not intact ☐ **4c** Other:	1G, G-2995, " " 12 " " 10 "
5. Were all of the samples listed on the COC received?	✓			☐ **5a** Samples received-not on COC ☐ **5b** Samples not received-on COC	1G, G-3003, " " 12 " " 2 "
6. Were all of the sample containers received intact?	✓			☐ **6a** Leaking ☐ **6b** Broken	1G, G-3074, " " 12 " " 10 "
7. Were VOA samples received without headspace?	✓			☐ **7a** Headspace (VOA only)	1G, G-3078 " " 12 " " 10 "
8. Were samples received in appropriate containers?	✓			☐ **8a** Improper container	1G, G-3086 " " 12 " " 2 "
9. Did you check for residual chlorine, if necessary?			✓	☐ **9a** Could not be determined due to matrix interference	
10. Were samples received within holding time?	✓			☐ **10a** Holding time expired	
11. For rad samples, was sample activity info. provided?			✓	☐ Incomplete information	
12. For SOG water samples (1613B, 1668A, 8290, LR PAHs), do samples have visible solids present?			✓	If yes & appears to be >1%, was SOG notified? _____	
13. Are the shipping containers intact?	✓			☐ **13a** Leaking ☐ **13b** Other:	
14. Was COC relinquished? (Signed/Dated/Timed)		✓		☑ **14a** Not relinquished	
15. Are tests/parameters listed for each sample?	✓			☐ **15a** Incomplete information	
16. Is the matrix of the samples noted?	✓			☐ **15a** Incomplete information	
17. Is the date/time of sample collection noted?	✓			☐ **15a** Incomplete information	
18. Is the client and project name/# identified?	✓			☐ **15a** Incomplete information	
19. Was the sampler identified on the COC?		✓			

Quote #: _____ PM Instructions: _____

Sample Receiving Associate: _____ Date: 4-3-06

Volatiles

Raw Sample Data

STL Knoxville - ACS

Client Sample ID: G-2889-R1-SPENT ACTIVATED CARBON

GC/MS Volatiles

Lot-Sample #...: H6D030205-001 **Work Order #...:** H2HN31AA **Matrix.....:** SOLID
Date Sampled...: 03/28/06 **Date Received..:** 04/02/06
Prep Date.....: 04/04/06 **Analysis Date..:** 04/04/06
Prep Batch #...: 6094386
Dilution Factor: 5 **Method.....:** SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	**3500 J,B**	**5000**	**ug/kg**	**1200**
Acrylonitrile	ND	25000	ug/kg	3800
Benzene	**3800**	**1200**	**ug/kg**	**140**
Bromobenzene	ND	1200	ug/kg	260
Bromochloromethane	ND	1200	ug/kg	170
Bromodichloromethane	ND	1200	ug/kg	120
Bromoform	ND	1200	ug/kg	210
Bromomethane	**740 J,B**	**2500**	**ug/kg**	**700**
2-Butanone	**14000**	**5000**	**ug/kg**	**1000**
n-Butylbenzene	ND	1200	ug/kg	380
sec-Butylbenzene	ND	1200	ug/kg	380
tert-Butylbenzene	ND	1200	ug/kg	340
Carbon disulfide	ND	1200	ug/kg	150
Carbon tetrachloride	ND	1200	ug/kg	120
Chlorobenzene	ND	1200	ug/kg	130
Chlorodibromomethane	ND	1200	ug/kg	120
Chloroethane	ND	2500	ug/kg	280
Chloroform	**1900**	**1200**	**ug/kg**	**120**
Chloromethane	ND	2500	ug/kg	1000
2-Chlorotoluene	ND	1200	ug/kg	300
4-Chlorotoluene	ND	1200	ug/kg	300
1,2-Dibromo-3-chloro-propane	ND	2500	ug/kg	140
1,2-Dibromoethane	ND	1200	ug/kg	180
Dibromomethane	ND	1200	ug/kg	120
1,2-Dichlorobenzene	ND	1200	ug/kg	320
1,3-Dichlorobenzene	ND	1200	ug/kg	330
1,4-Dichlorobenzene	ND	1200	ug/kg	330
Dichlorodifluoromethane	ND	2500	ug/kg	160
1,1-Dichloroethane	**150 J**	**1200**	**ug/kg**	**120**
1,2-Dichloroethane	**600 J**	**1200**	**ug/kg**	**140**
cis-1,2-Dichloroethene	**320 J**	**1200**	**ug/kg**	**120**
trans-1,2-Dichloroethene	ND	1200	ug/kg	190
1,1-Dichloroethene	**500 J**	**1200**	**ug/kg**	**240**
1,2-Dichloropropane	ND	1200	ug/kg	180
1,3-Dichloropropane	ND	1200	ug/kg	220
2,2-Dichloropropane	ND	1200	ug/kg	120
cis-1,3-Dichloropropene	ND	1200	ug/kg	120
trans-1,3-Dichloropropene	ND	1200	ug/kg	150

(Continued on next page)

STL Knoxville - ACS

Client Sample ID: G-2889-R1-SPENT ACTIVATED CARBON

GC/MS Volatiles

Lot-Sample #...: H6D030205-001 **Work Order #...:** H2HN31AA **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1-Dichloropropene	ND	1200	ug/kg	120
Ethylbenzene	ND	1200	ug/kg	240
Hexachlorobutadiene	ND	1200	ug/kg	550
2-Hexanone	ND	5000	ug/kg	800
Iodomethane	**550 J,B**	**2500**	**ug/kg**	**490**
Isopropylbenzene	ND	1200	ug/kg	280
p-Isopropyltoluene	ND	1200	ug/kg	420
Methylene chloride	ND	1200	ug/kg	420
4-Methyl-2-pentanone	ND	5000	ug/kg	800
Naphthalene	ND	1200	ug/kg	240
n-Propylbenzene	ND	1200	ug/kg	360
Styrene	ND	1200	ug/kg	240
1,1,1,2-Tetrachloroethane	ND	1200	ug/kg	160
1,1,2,2-Tetrachloroethane	ND	1200	ug/kg	210
Tetrachloroethene	**1600**	**1200**	**ug/kg**	**210**
Tetrahydrofuran	**2700 J**	**5000**	**ug/kg**	**1000**
Toluene	**320 J**	**1200**	**ug/kg**	**180**
1,2,3-Trichlorobenzene	ND	1200	ug/kg	360
1,2,4-Trichloro-benzene	ND	1200	ug/kg	340
1,1,1-Trichloroethane	**5600**	**1200**	**ug/kg**	**120**
1,1,2-Trichloroethane	ND	1200	ug/kg	180
Trichloroethene	**43000**	**1200**	**ug/kg**	**140**
Trichlorofluoromethane	ND	2500	ug/kg	320
1,2,3-Trichloropropane	ND	1200	ug/kg	270
1,1,2-Trichloro-1,2,2-trifluoroethane	**1700**	**1200**	**ug/kg**	**200**
1,2,4-Trimethylbenzene	ND	1200	ug/kg	320
1,3,5-Trimethylbenzene	ND	1200	ug/kg	310
Vinyl acetate	ND	2500	ug/kg	600
Vinyl chloride	ND	1200	ug/kg	140
m-Xylene & p-Xylene	ND	1200	ug/kg	480
o-Xylene	ND	1200	ug/kg	210
Xylenes (total)	ND	1200	ug/kg	700

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	12 *	(42 - 138)
1,2-Dichloroethane-d4	11 *	(38 - 144)
Toluene-d8	0.99 *	(52 - 137)
Bromofluorobenzene	4.6 *	(54 - 151)

NOTE(S):

* Surrogate recovery is outside stated control limits.

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

STL Knoxville - ACS

Client Sample ID: G-2889-R1-SPENT ACTIVATED CARBON

GC/MS Volatiles

Lot-Sample #...: H6D030205-001 **Work Order #...:** H2HN31AA **Matrix.....:** SOLID

NOTE(S):

* Surrogate recovery is outside stated control limits.

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

STL Knoxville - ACS

G-2889-R1-SPENT ACTIVATED CARBON

GC/MS Volatiles

Lot-Sample #: H6D030205-001 **Work Order #:** H2HN31AA **Matrix:** SOLID

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT		RETENTION TIME	UNITS
Propene	115-07-1	1300 NJ	M	0.8469	ug/kg
Isobutane	75-28-5	18000 NJ	M	0.9817	ug/kg
Unknown		3800 NJ	M	1.094	ug/kg
Unknown		1700 NJ	M	2.6054	ug/kg
Cyclopentane, methyl-	96-37-7	1500 NJ	M	3.3113	ug/kg
Cyclohexane	110-82-7	1600 NJ	M	3.8344	ug/kg

NOTE(S):

M: Result was measured against nearest internal standard assuming a response factor of 1.

Data File: /chem/gcms/mk.i/K040406.b/h2hn31aa.d
Report Date: 04-Apr-2006 19:25

STL Knoxville

Volatile Organics by GC/MS

Data file : /chem/gcms/mk.i/K040406.b/h2hn31aa.d
Lab Smp Id: H2HN31AA Client Smp ID: G-2889-R1-SPENT ACT
Inj Date : 04-APR-2006 19:11
Operator : 063605 Inst ID: mk.i
Smp Info : H2HN31AA,5,0,,
Misc Info : K040406,MS8260NM,focus.sub
Comment : Volatile Organics by GC/MS
Method : /var/chem/gcms/mk.i/K040406.b/MS8260NM.m
Meth Date : 04-Apr-2006 19:03 tillerm Quant Type: ISTD
Cal Date : 03-FEB-2006 14:40 Cal File: fickb038.d
Als bottle: 1
Dil Factor: 5.00000 ✓
Integrator: HP RTE Compound Sublist: focus.sub
Target Version: 3.50
Processing Host: qmidhp01

Concentration Formula: Amt * DF * (Vt*5)/(Ws*Va) * CpndVariable

Vt	5000.00000	Sample Volume Purged
Ws	5.01000	Weight of sample
Va	100.00000	Volume of Methanol Aliquot

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/Kg)
* 1	Fluorobenzene	96	4.287	4.284	(1.000)	1002150	50.0000	
* 2	Chlorobenzene-d5	117	6.780	6.780	(1.000)	677351	50.0000	
* 3	1,4 Dichlorobenzene-d4	152	9.495	9.498	(1.000)	255364	50.0000	
$ 4	1,2-Dichloroethane-d4	65	4.011	4.017	(0.936)	5550	1.14945	286.79(R)
$ 5	Dibromofluoromethane	113	3.751	3.751	(0.875)	5194	1.16651	291.04(R)
$ 6	Toluene-d8	98	5.564	5.564	(0.821)	1778	0.09866	24.615(R)
$ 7	4-Bromofluorobenzene	95	7.913	7.913	(0.833)	2847	0.46053	114.90(R)
M 8	1,2-Dichloroethene (total)	96				6431	1.26441	315.47
11	Chloromethane (spcc)	50	0.982	1.011	(0.229)	13630	~~1.64779~~	~~411.12~~
14	Bromomethane	94	1.341	1.338	(0.313)	3280	2.96541	739.87
17	Trichlorofluoromethane	101	1.999	1.607	(0.466)	10615	~~2.19328~~	~~547.22~~
19	1,1-Dichloroethene (ccc)	96	2.009	2.005	(0.469)	7560	2.02168	504.41
20	*Freon 113	151	2.005	2.005	(0.468)	20384	6.93668	1730.7
21	Acetone	43	2.037	2.041	(0.475)	15084	14.1901	3540.4
22	*Iodomethane	142	2.127	2.131	(0.496)	9786	2.21522	552.70
26	Methylene Chloride	84	2.384	2.384	(0.556)	6917	1.45206	362.29
32	1,1-Dichloroethane (spcc)	63	2.933	2.926	(0.684)	5186	0.59231	147.78
33	*Vinyl Acetate	86	2.830	2.962	(0.660)	3430	~~4.26510~~	~~1064.1~~

MM 4/5/06

Data File: /chem/gcms/mk.i/K040406.b/h2hn31aa.d
Report Date: 04-Apr-2006 19:25

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/Kg)
35 cis 1,2-Dichloroethene	96	3.379	3.379	(0.788)	6431	1.26441	315.47
36 2-Butanone	43	3.385	3.382	(0.790)	95183	55.4064	13824
39 *THF	42	3.613	3.610	(0.843)	12768	10.9771	2738.8
40 Chloroform (ccc)	83	3.629	3.629	(0.847)	63296	7.79001	1943.6
41 1,1,1-Trichloroethane	97	3.780	3.780	(0.882)	158332	22.5654	5630.1
42 Carbon Tetrachloride	117	3.783	3.918	(0.882)	21596	~~3.95794~~	~~987.51~~
44 Benzene	78	4.072	4.069	(0.950)	298461	15.3204	3822.5
45 1,2-Dichloroethane	62	4.078	4.075	(0.951)	13803	~~2.41718~~	~~603.09~~ OK
46 Trichloroethene	130	4.582	4.579	(1.069)	798538	170.661	42580
47 1,2-Dichloropropane (ccc)	63	4.582	4.749	(1.069)	2454	0.50301	125.50
50 Bromodichloromethane	83	4.579	4.970	(1.068)	8574	~~1.43853~~	~~350.92~~
54 Toluene (ccc)	91	5.619	5.615	(0.829)	25740	1.27967	319.28
58 Tetrachloroethene	164	6.081	6.081	(0.897)	22056	6.48953	1619.1

JMT 4/5/06

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

Data File: /chem/gcms/mk.i/K040406.b/h2hn31aa.d
Report Date: 04-Apr-2006 19:25

STL Knoxville

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: mk.i
Lab File ID: h2hn31aa.d
Lab Smp Id: H2HN31AA
Analysis Type: VOA
Quant Type: ISTD
Operator: 063605
Calibration Date: 04-APR-2006
Calibration Time: 17:37
Client Smp ID: G-2889-R1-SPENT ACT
Level: MED
Sample Type: SOIL
Method File: /var/chem/gcms/mk.i/K040406.b/MS8260NM.m
Misc Info: K040406,MS8260NM,focus.sub

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	1075684	537842	2151368	1002150	-6.84
2 Chlorobenzene-d5	737847	368924	1475694	677351	-8.20
3 1,4 Dichlorobenze	307012	153506	614024	255364	-16.82

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	4.28	3.78	4.78	4.29	0.07
2 Chlorobenzene-d5	6.78	6.28	7.28	6.78	0.00
3 1,4 Dichlorobenze	9.50	9.00	10.00	9.49	-0.03

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

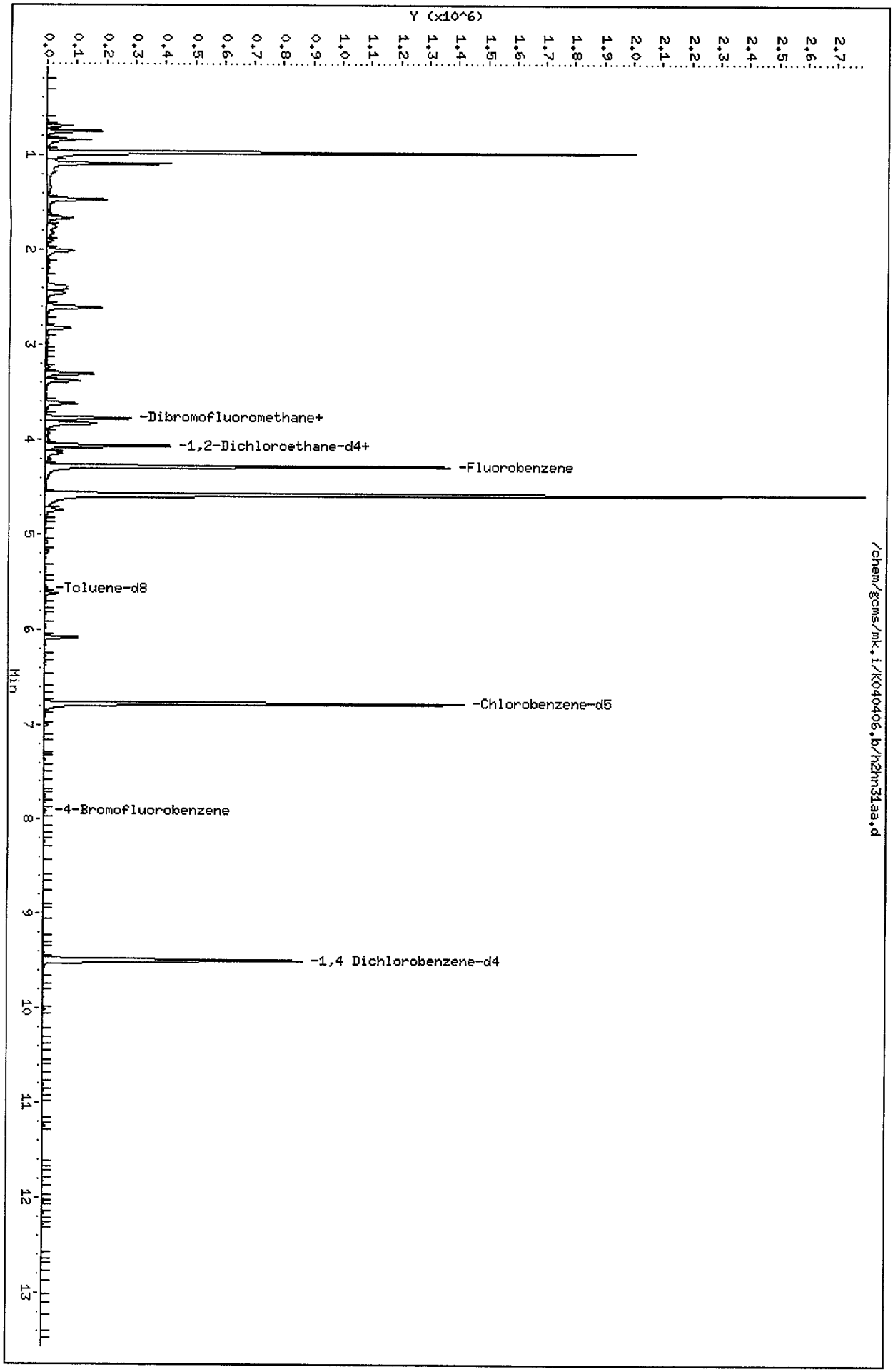
Data File: /chem/gcms/mk.i/K040406.b/h2hn31aa.d
Report Date: 04-Apr-2006 19:25

STL Knoxville

RECOVERY REPORT

Client Name: STL Knoxville - ACS
Client SDG: H6D030205
Sample Matrix: SOLID
Fraction: VOA
Lab Smp Id: H2HN31AA
Client Smp ID: G-2889-R1-SPENT ACT
Level: MED
Operator: 063605
Data Type: MS DATA
SampleType: SAMPLE
SpikeList File: fulllist.spk
Quant Type: ISTD
Sublist File: focus.sub
Method File: /var/chem/gcms/mk.i/K040406.b/MS8260NM.m
Misc Info: K040406,MS8260NM,focus.sub

SURROGATE COMPOUND	CONC ADDED ug/Kg	CONC RECOVERED ug/Kg	% RECOVERED	LIMITS
$ 4 1,2-Dichloroethane	2495.0	286.79	11.49*	38-144
$ 5 Dibromofluorometha	2495.0	291.04	11.67*	42-138
$ 6 Toluene-d8	2495.0	24.615	0.99*	52-137
$ 7 4-Bromofluorobenze	2495.0	114.90	4.61*	54-151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Date : 04-APR-2006 19:11
Client ID: G-2889-R1-SPENT ACT
Sample Info: H2HN31AA,5,0,,
Column phase: J&W-624
Instrument: mk.i
Operator: 063605
Column diameter: 0.18
Y (x10^6)
Min
-Dibromofluoromethane+
-1,2-Dichloroethane-d4+
-Fluorobenzene
-Toluene-d8
-Chlorobenzene-d5
-4-Bromofluorobenzene
-1,4 Dichlorobenzene-d4
/chem/gcms/mk.i/K040406.b/h2hn31aa.d

Data File: /chem/gcms/mk.i/K040406.b/h2hn31aa.d

Date : 04-APR-2006 19:11

Client ID: G-2889-R1-SPENT ACT

Instrument: mk.i

Sample Info: H2HN31AA,5,0,,

Operator: 063605

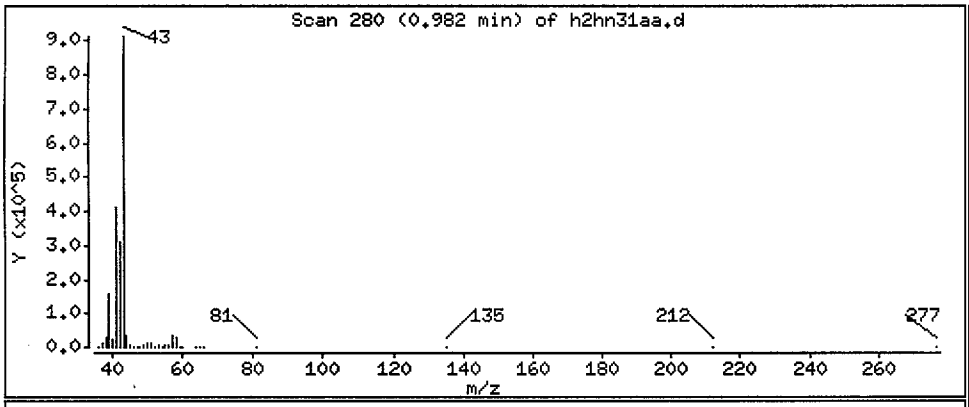
Column phase: J&W-624

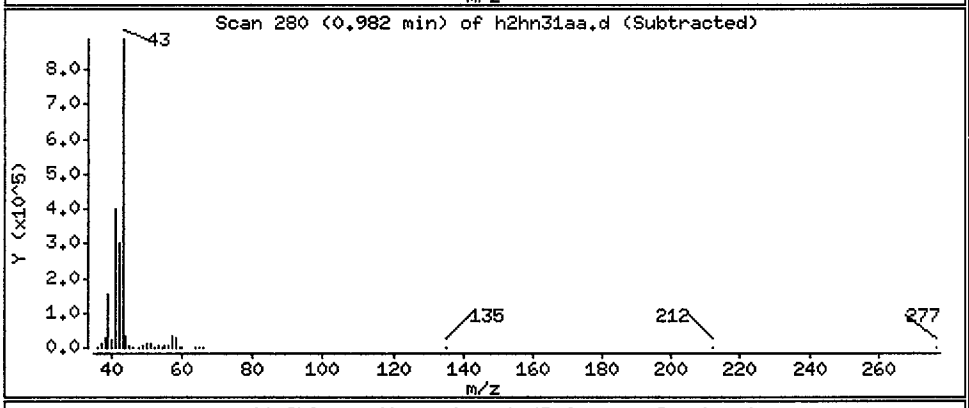
Column diameter: 0.18

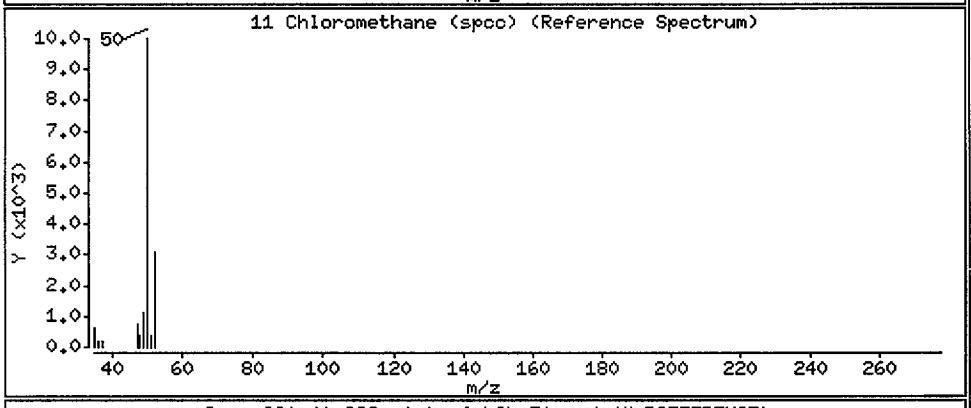
11 Chloromethane (spcc)

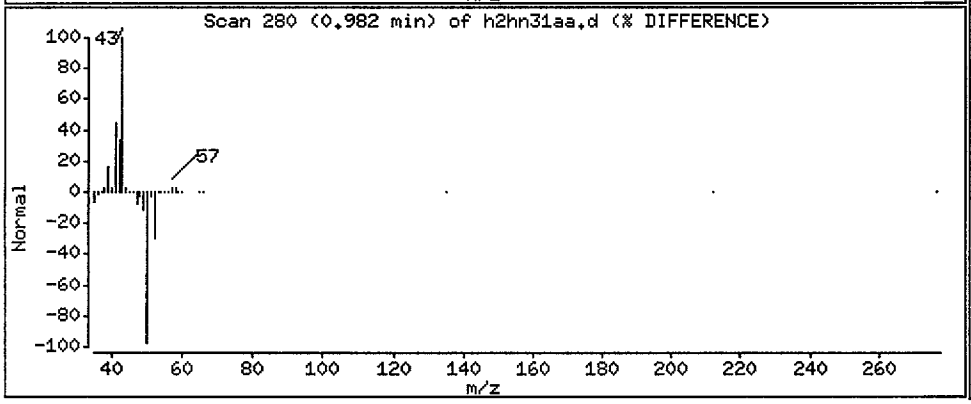
Concentration: 411.12 ug/Kg

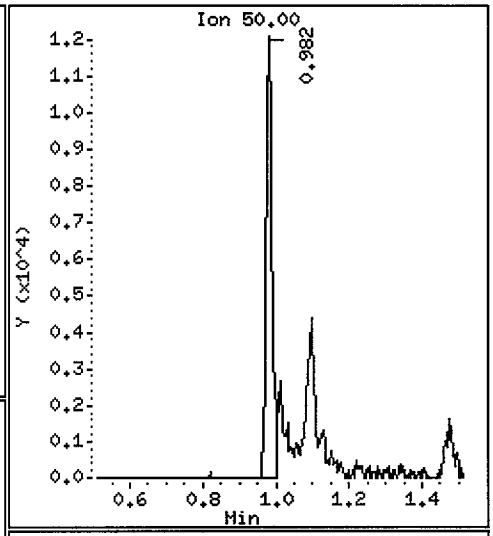
CMDe 4/20/06

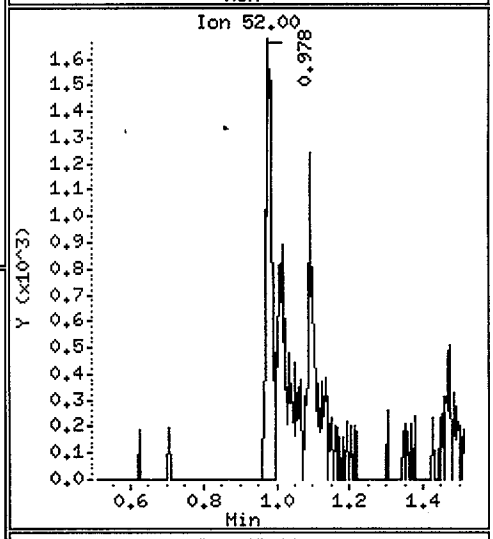


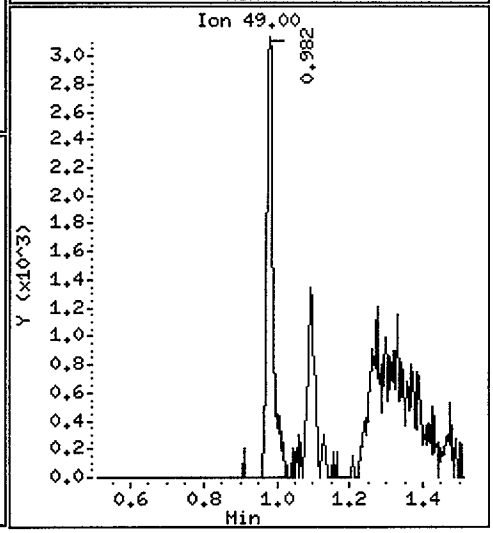












Data File: /chem/gcms/mk.i/K040406.b/h2hn31aa.d

Date : 04-APR-2006 19:11

Client ID: G-2889-R1-SPENT ACT

Instrument: mk.i

Sample Info: H2HN31AA,5,0,,

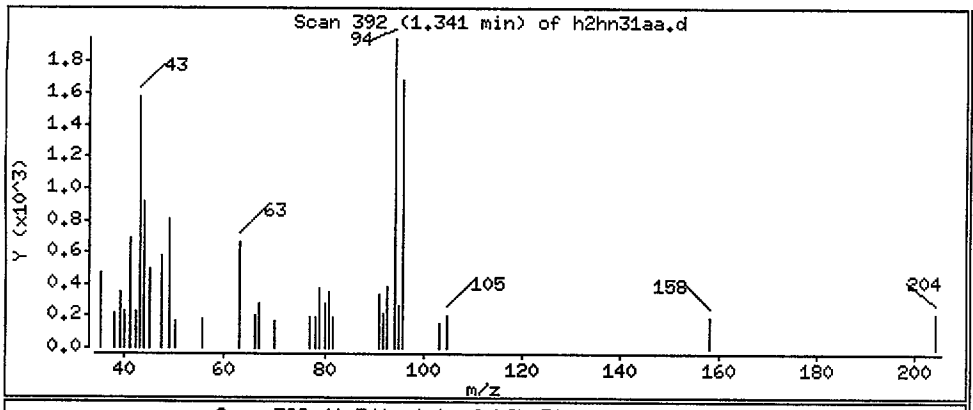
Operator: 063605

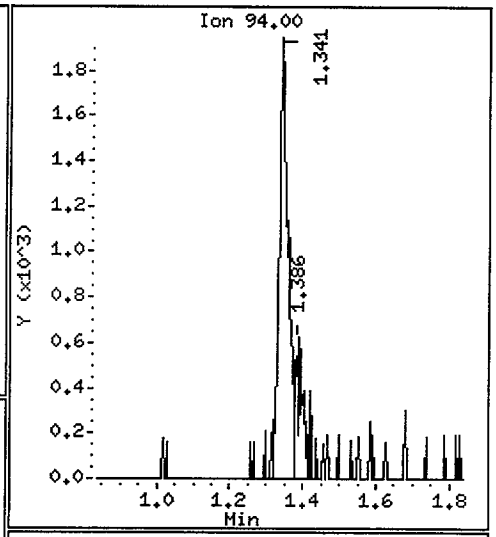
Column phase: J&W-624

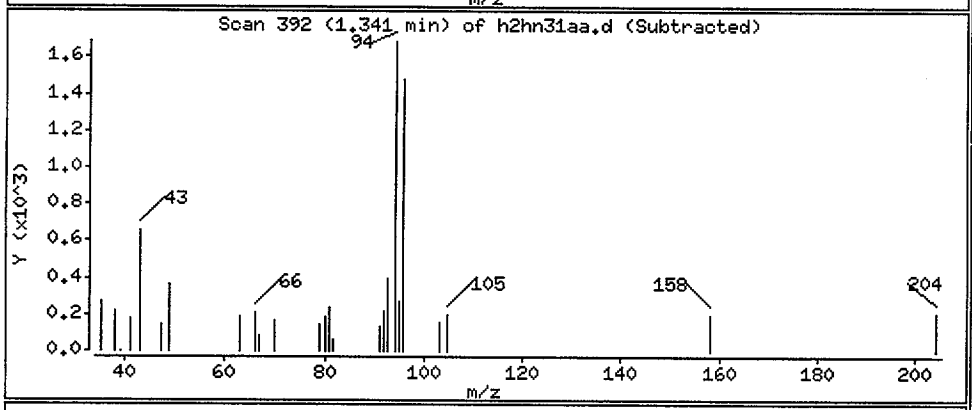
Column diameter: 0.18

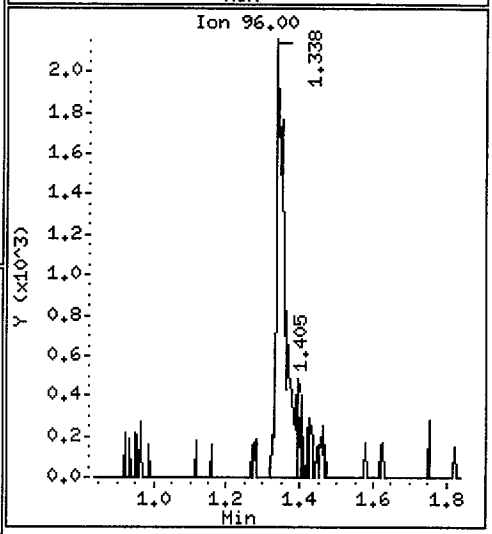
14 Bromomethane

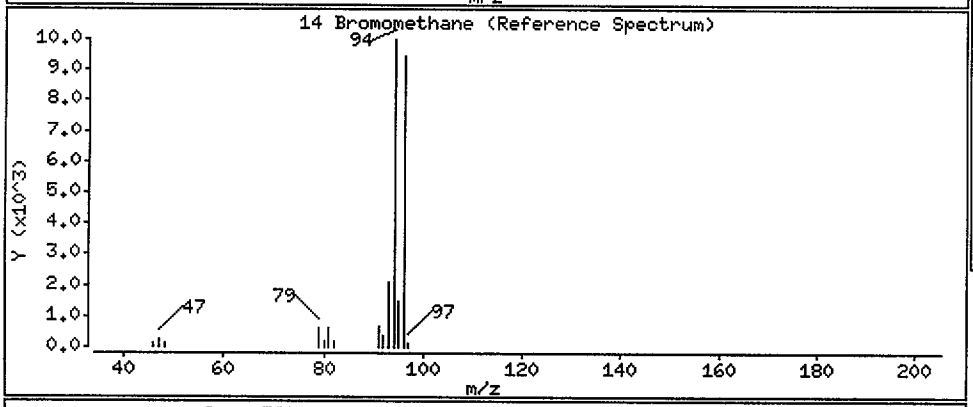
Concentration: 739.87 ug/Kg

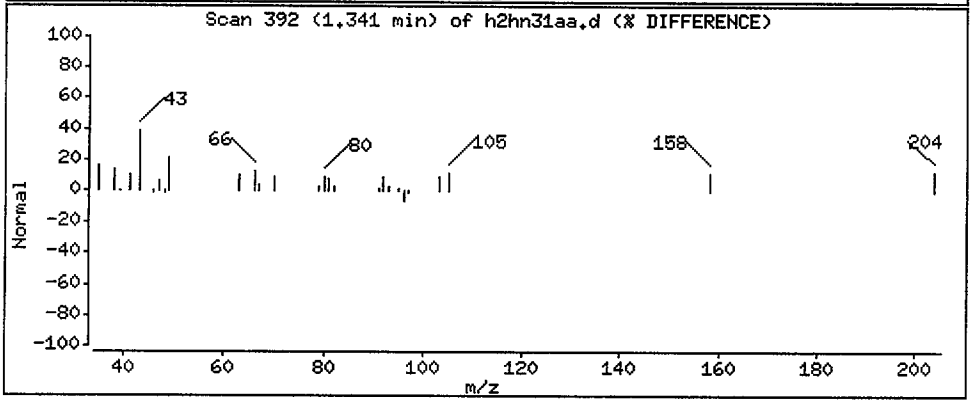












Data File: /chem/gcms/mk.i/K040406.b/h2hn31aa.d

Date : 04-APR-2006 19:11

Client ID: G-2889-R1-SPENT ACT

Instrument: mk.i

Sample Info: H2HN31AA,5,0,,

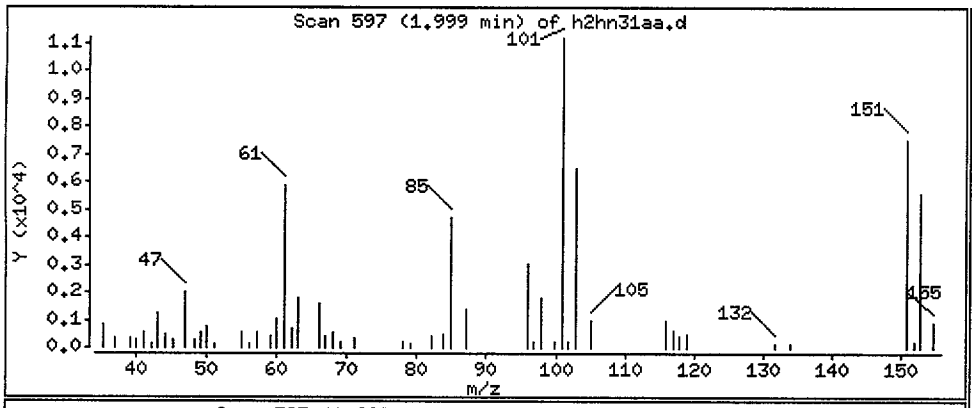
Operator: 063605

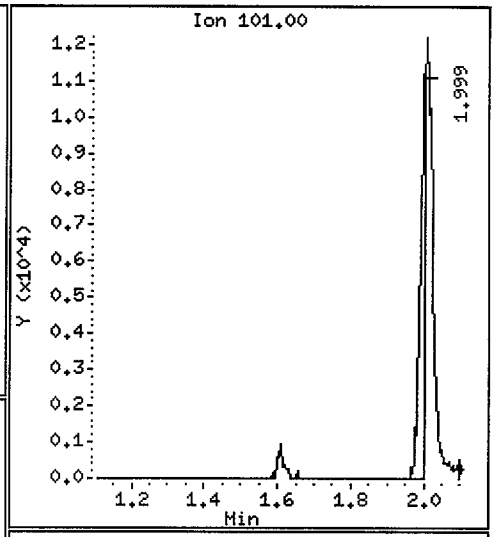
Column phase: J&W-624

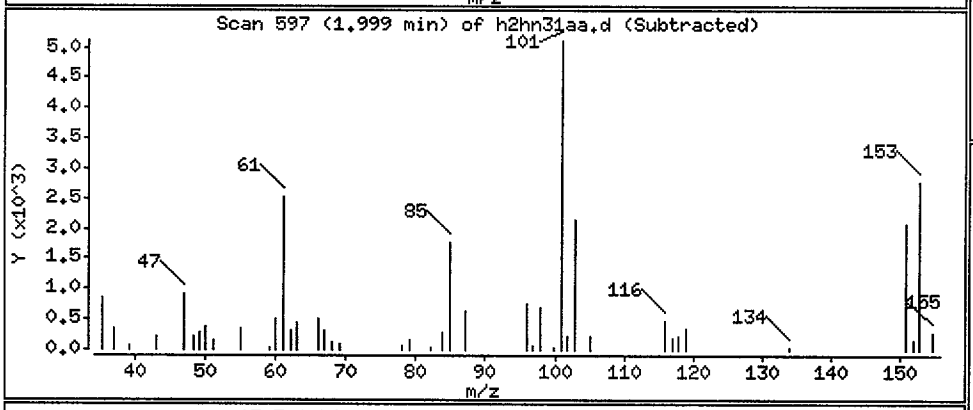
Column diameter: 0.18

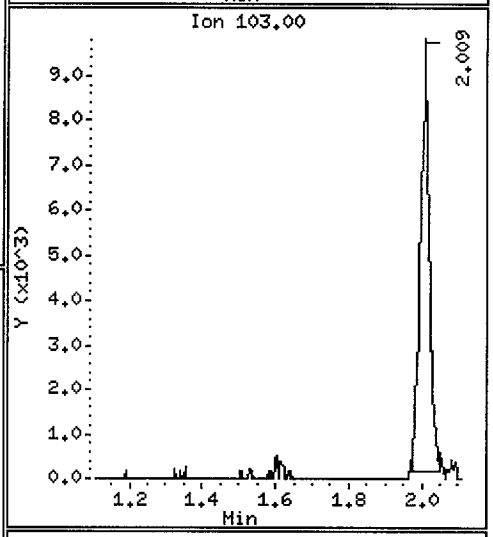
17 Trichlorofluoromethane

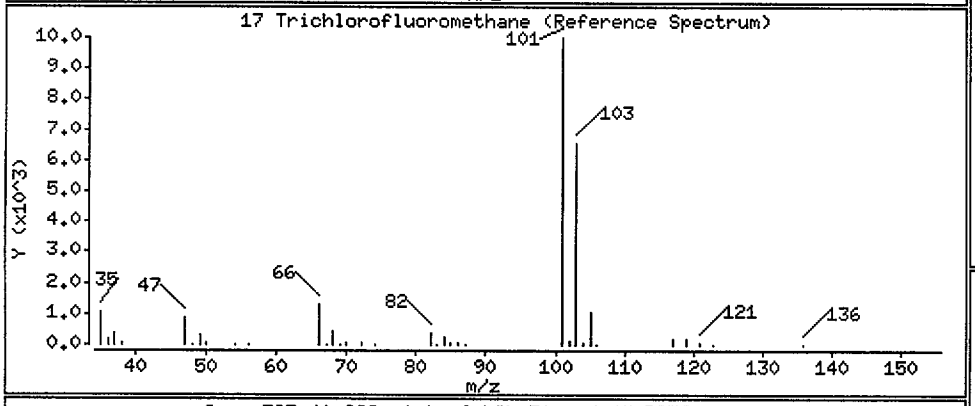
Concentration: 547.22 ug/Kg

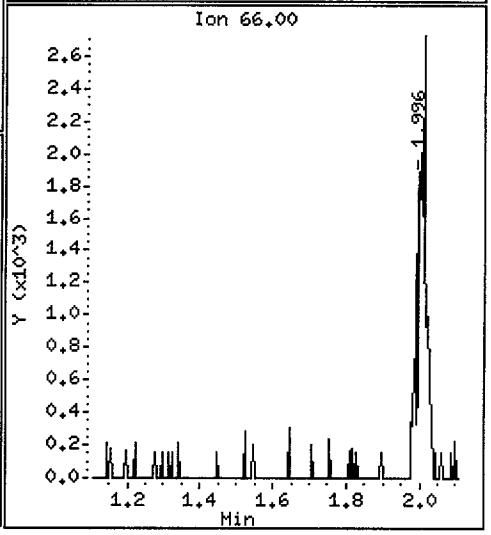


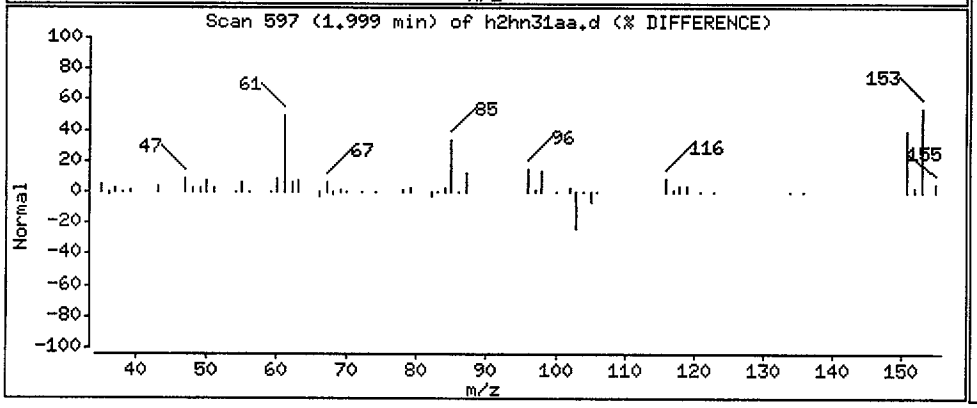












Data File: /chem/gcms/mk.i/K040406.b/h2hn31aa.d

Date : 04-APR-2006 19:11

Client ID: G-2889-R1-SPENT ACT

Instrument: mk.i

Sample Info: H2HN31AA,5,0,,

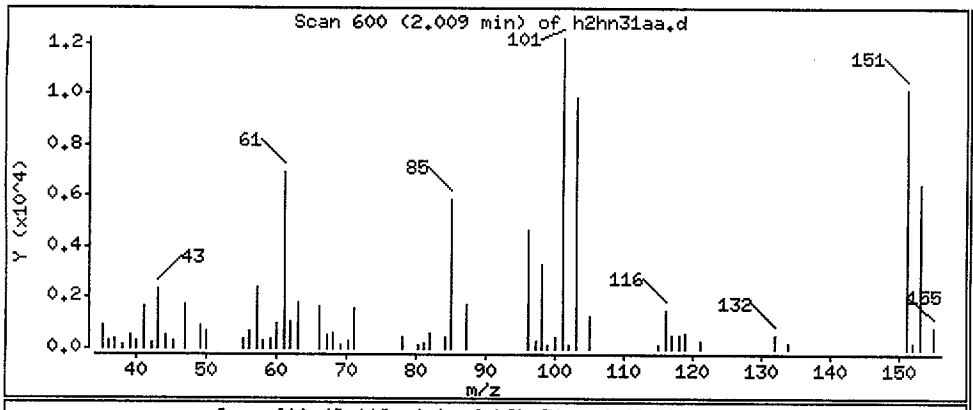
Operator: 063605

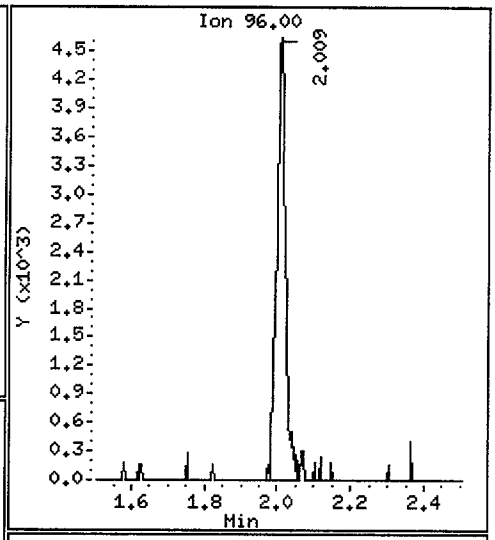
Column phase: J&W-624

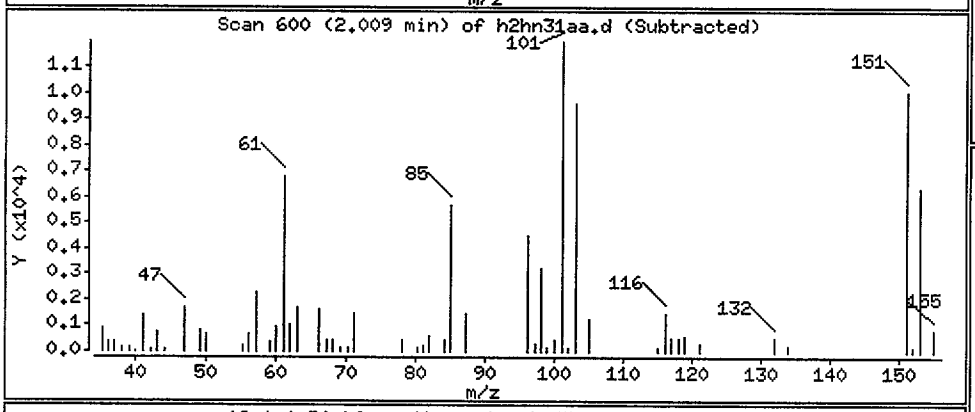
Column diameter: 0.18

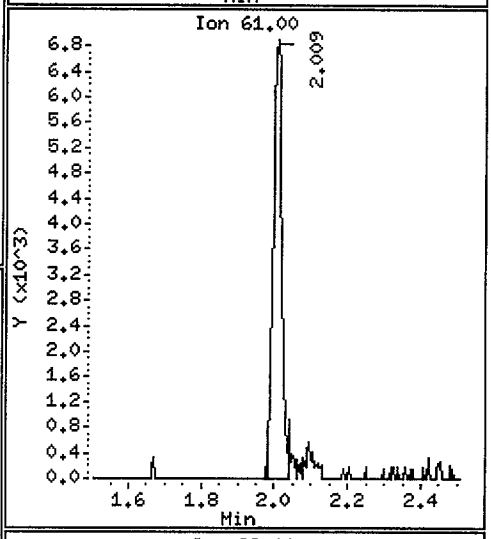
19 1,1-Dichloroethene (ccc)

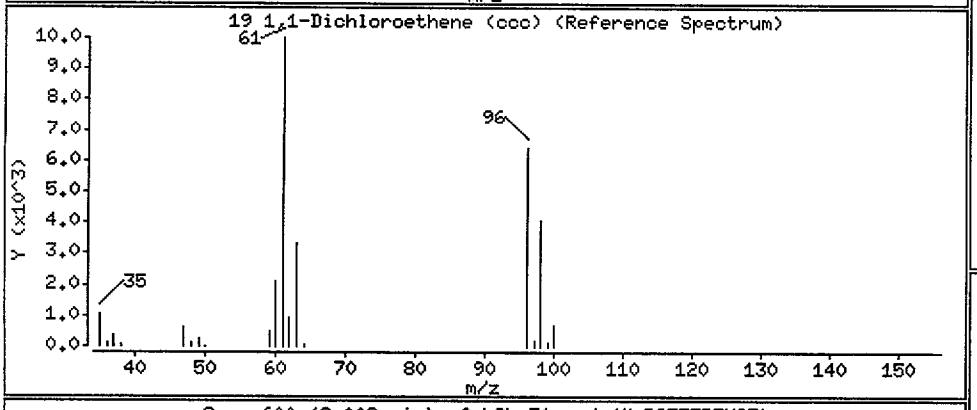
Concentration: 504.41 ug/Kg

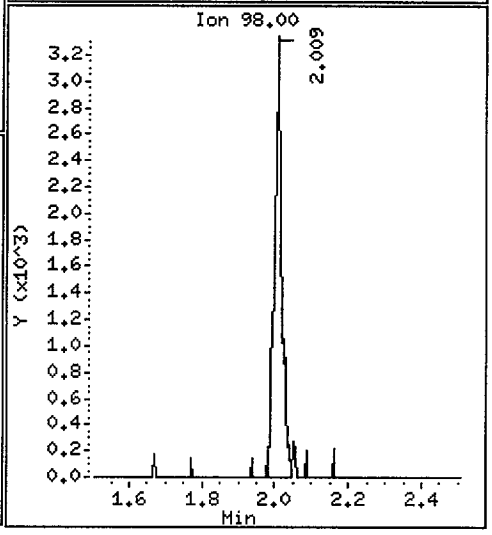


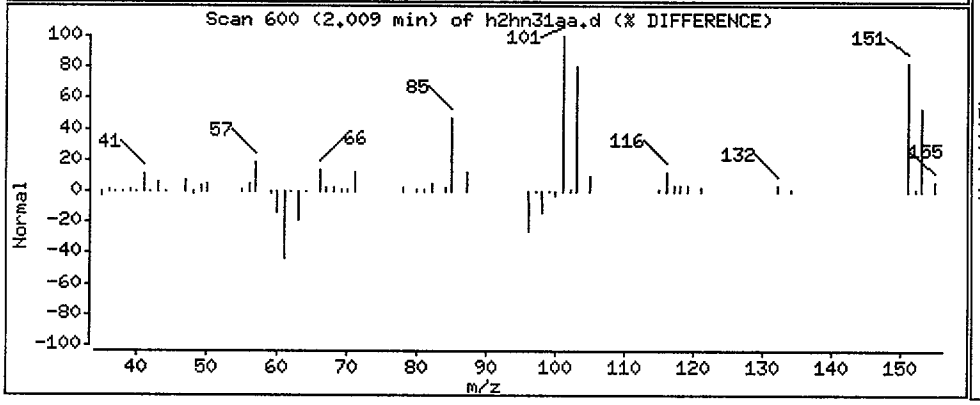












Data File: /chem/gcms/mk.i/K040406.b/h2hn31aa.d

Date : 04-APR-2006 19:11

Client ID: G-2889-R1-SPENT ACT

Instrument: mk.i

Sample Info: H2HN31AA,5,0,,

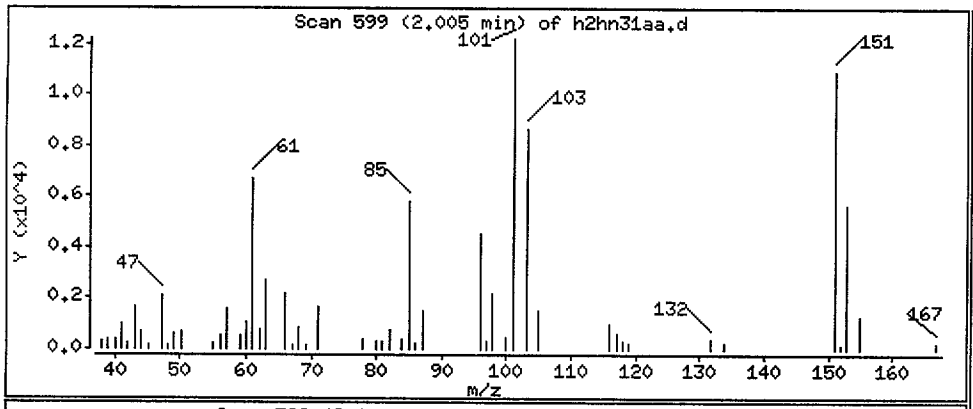
Operator: 063605

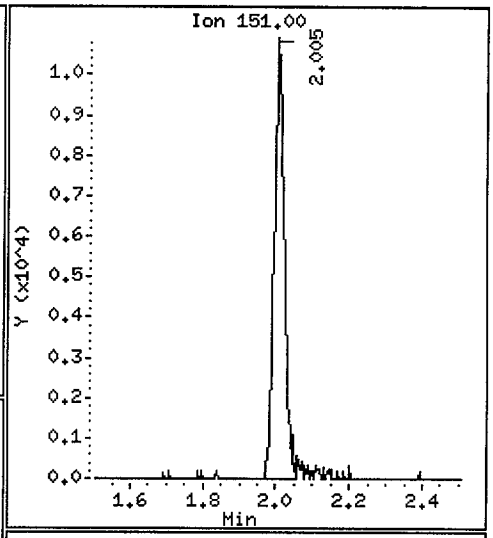
Column phase: J&W-624

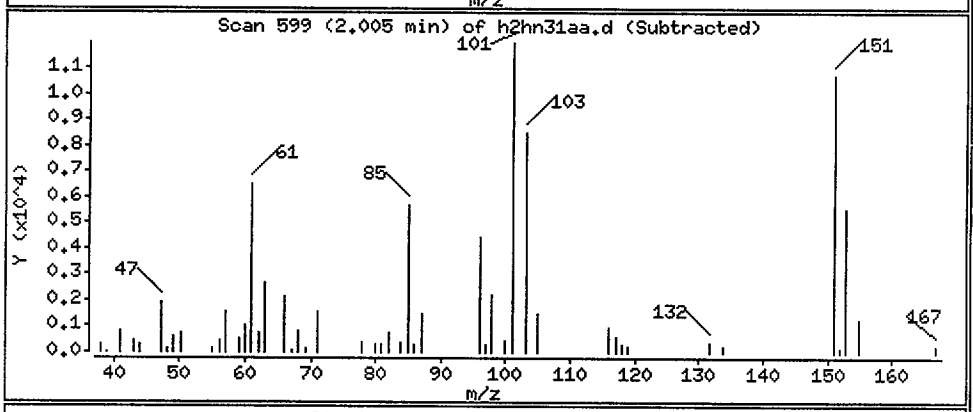
Column diameter: 0.18

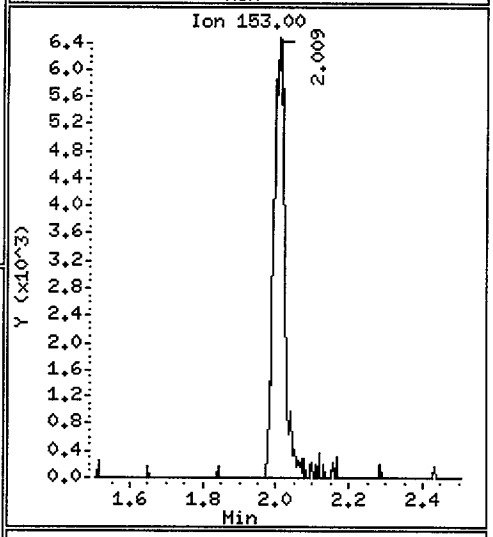
20 *Freon 113

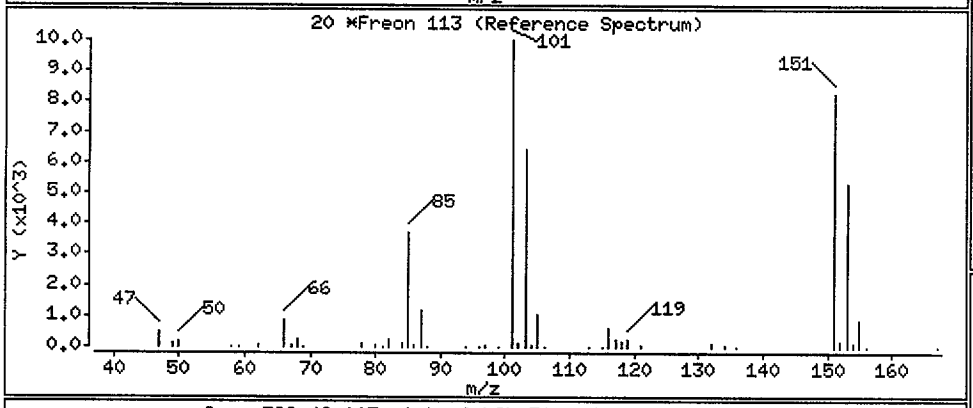
Concentration: 1730.7 ug/Kg

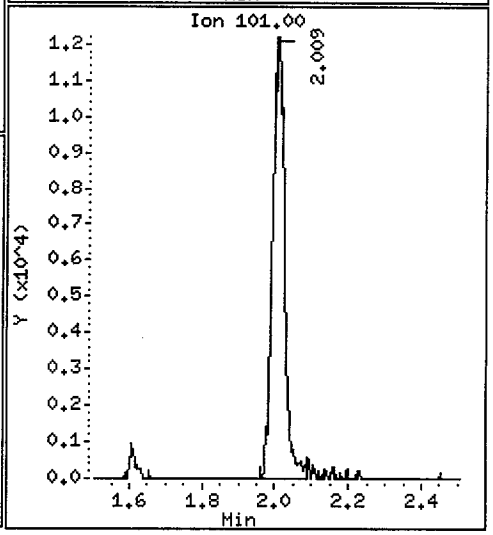


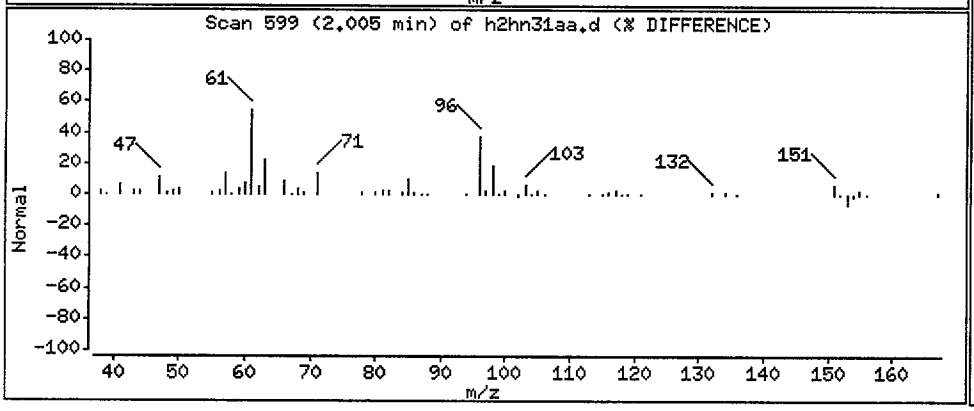












Data File: /chem/gcms/mk.i/K040406.b/h2hn31aa.d

Date : 04-APR-2006 19:11

Client ID: G-2889-R1-SPENT ACT

Instrument: mk.i

Sample Info: H2HN31AA,5,0,,

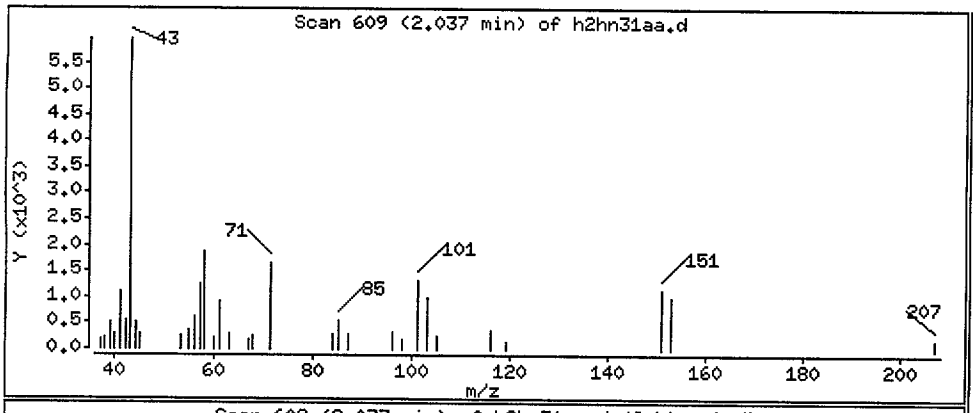
Operator: 063605

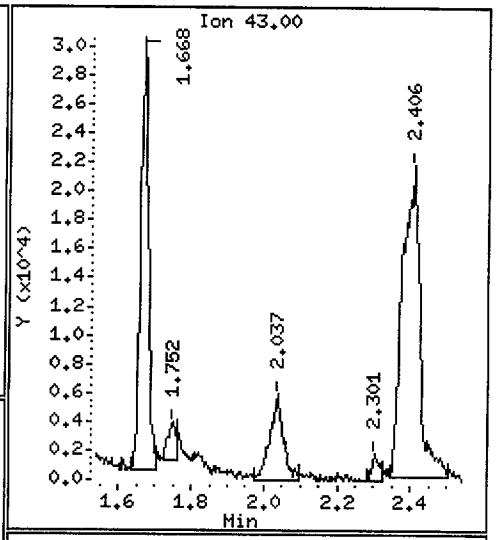
Column phase: J&W-624

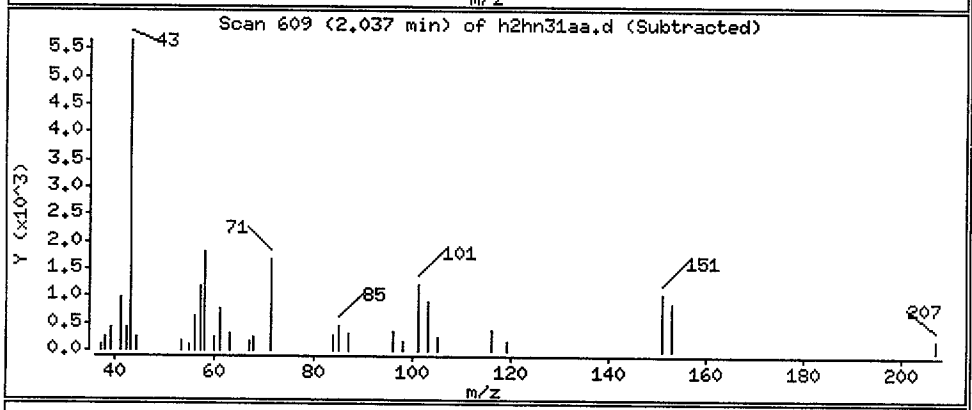
Column diameter: 0.18

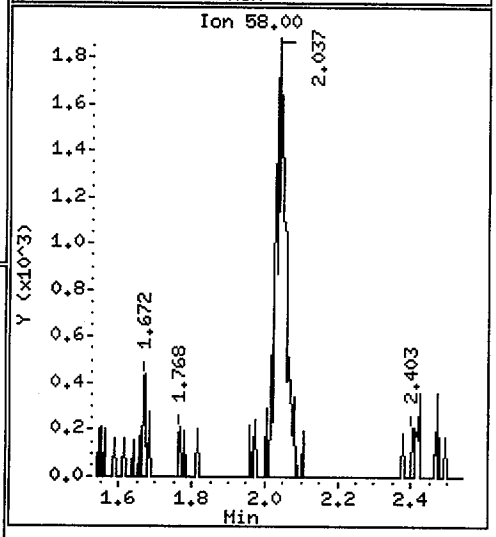
21 Acetone

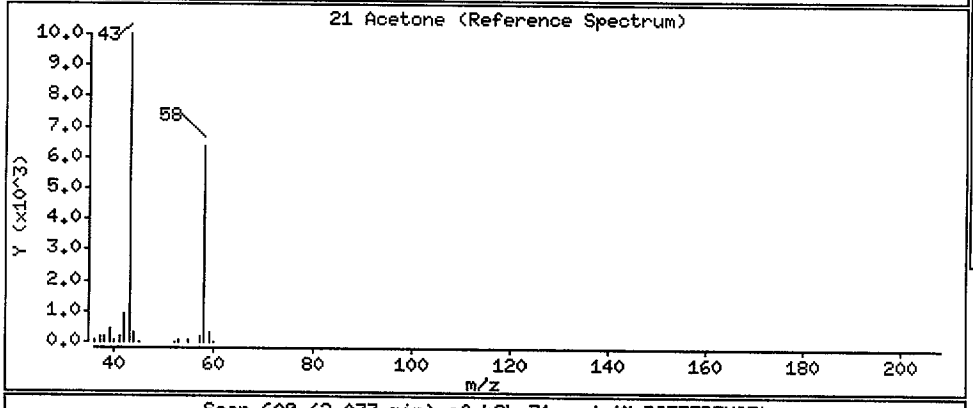
Concentration: 3540.4 ug/Kg

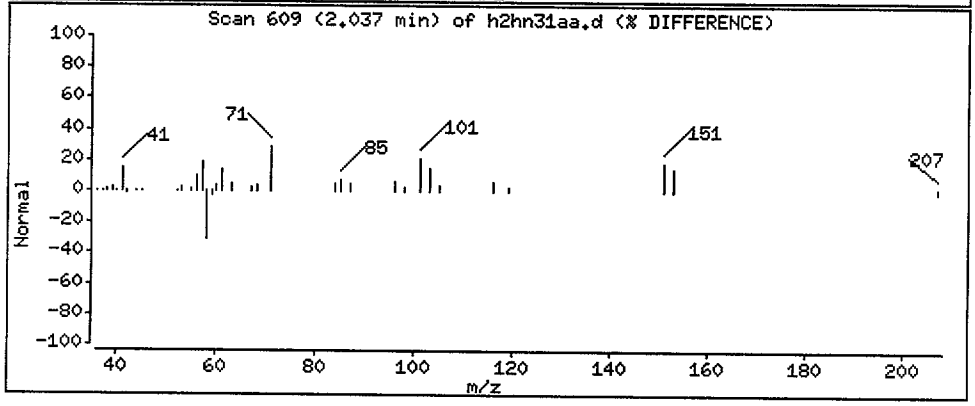












Data File: /chem/gcms/mk.i/K040406.b/h2hn31aa.d

Date : 04-APR-2006 19:11

Client ID: G-2889-R1-SPENT ACT

Instrument: mk.i

Sample Info: H2HN31AA,5,0,,

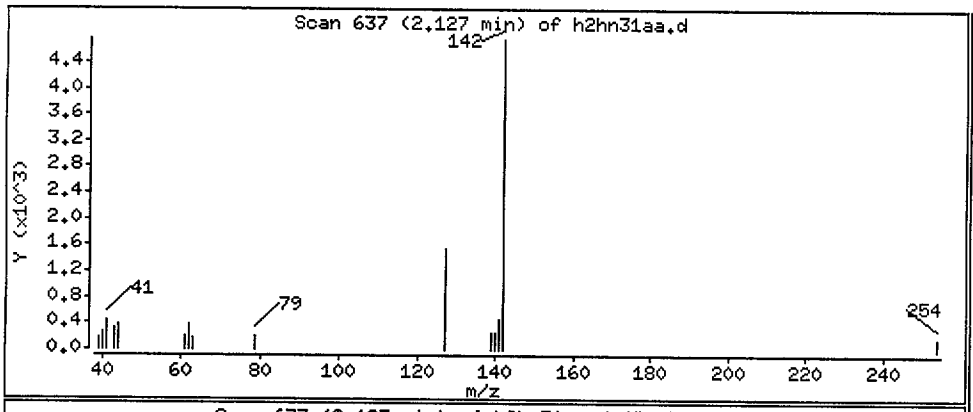
Operator: 063605

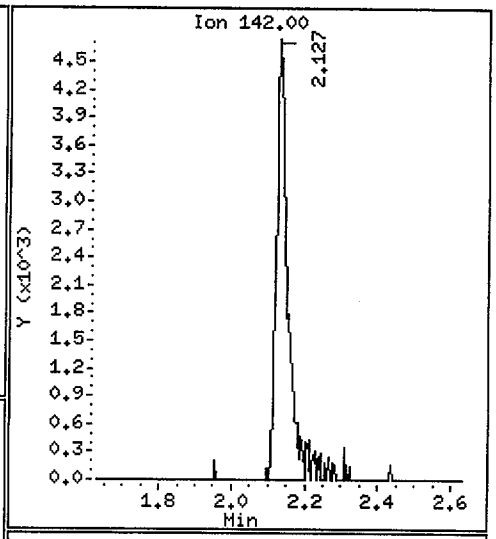
Column phase: J&W-624

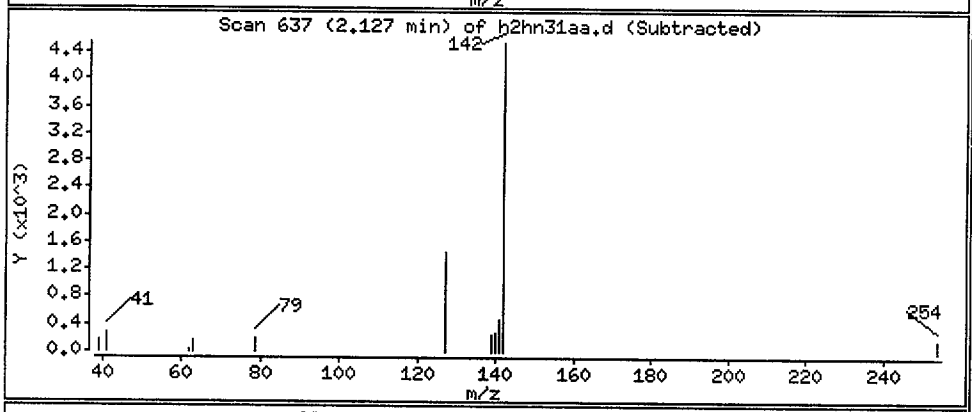
Column diameter: 0.18

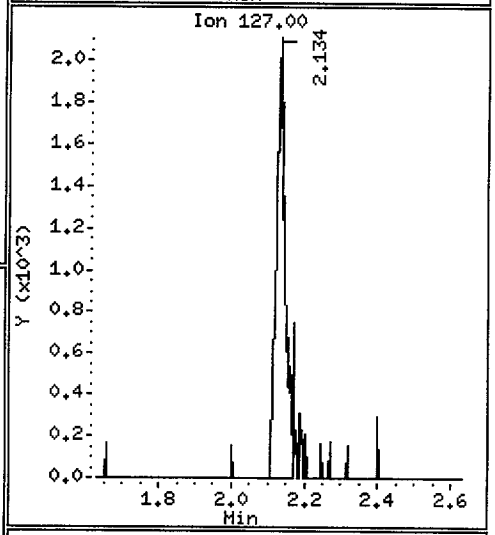
22 *Iodomethane

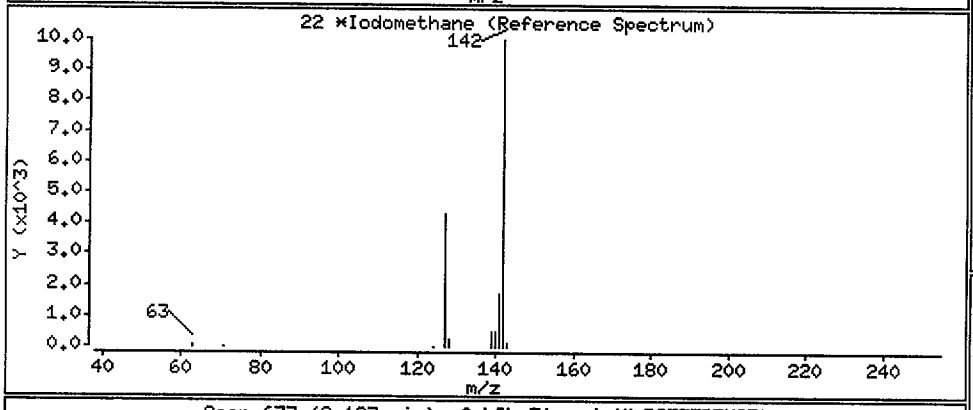
Concentration: 552.70 ug/Kg

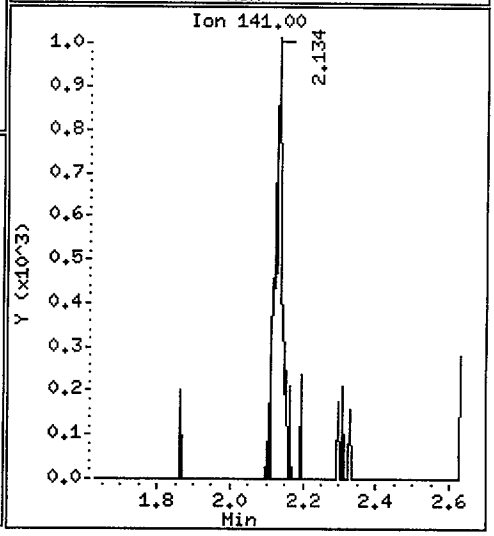


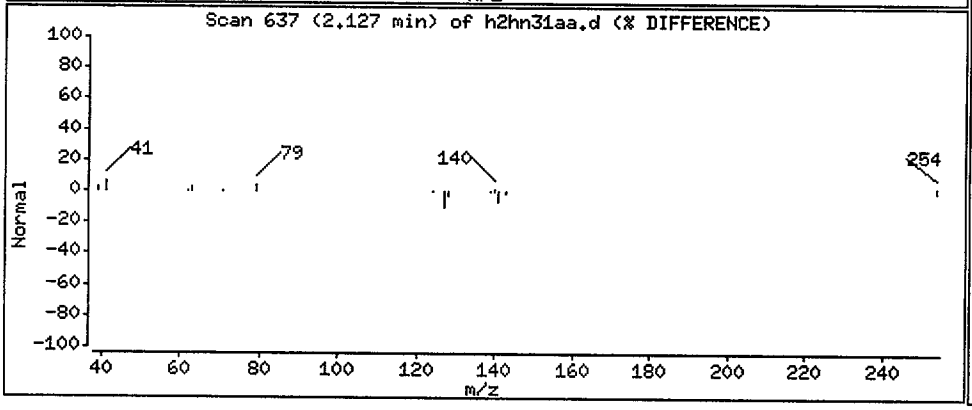












Data File: /chem/gcms/mk.i/K040406.b/h2hn31aa.d

Date : 04-APR-2006 19:11

Client ID: G-2889-R1-SPENT ACT

Instrument: mk.i

Sample Info: H2HN31AA,5,0,,

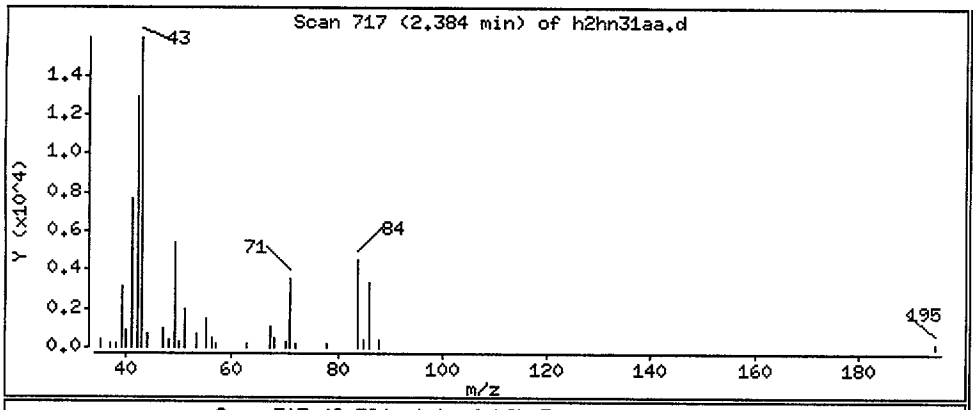
Operator: 063605

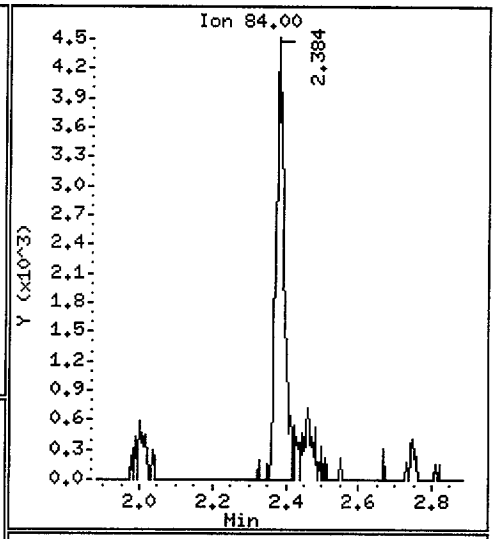
Column phase: J&W-624

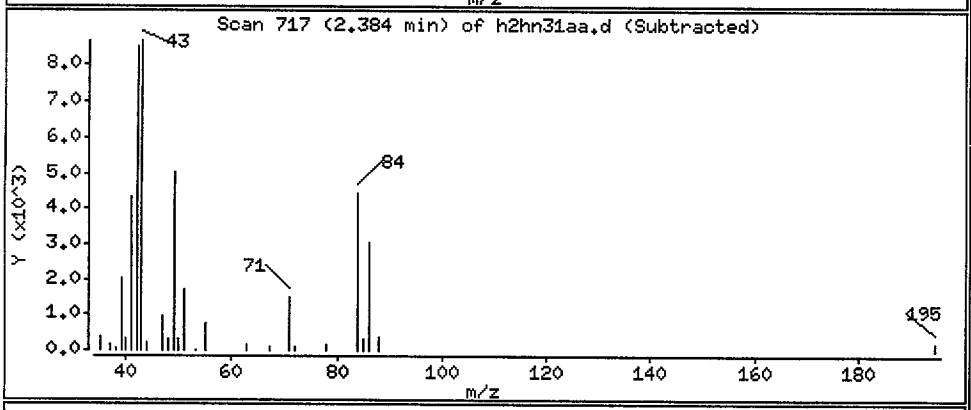
Column diameter: 0.18

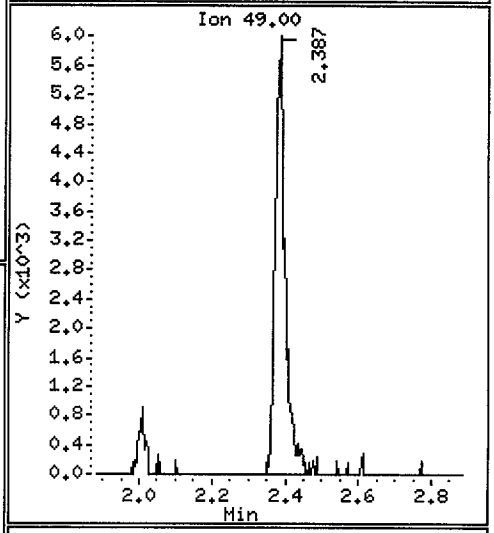
26 Methylene Chloride

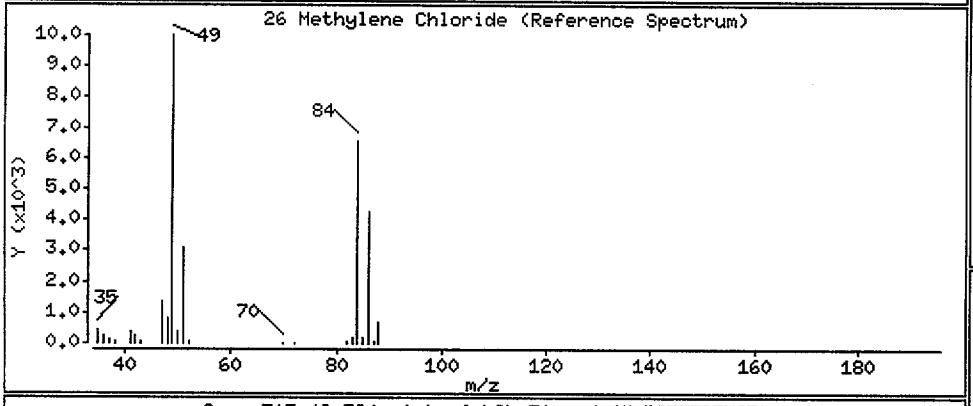
Concentration: 362.29 ug/Kg

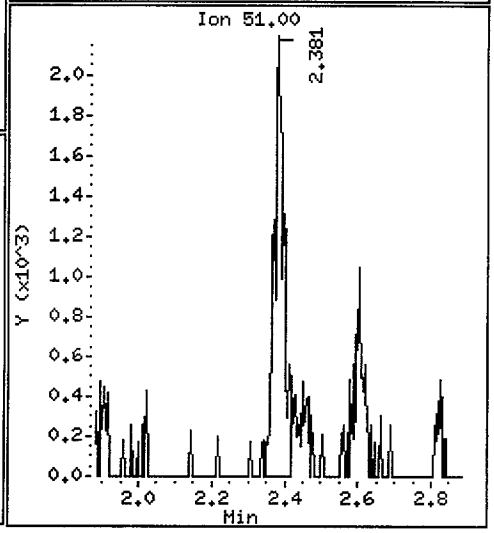


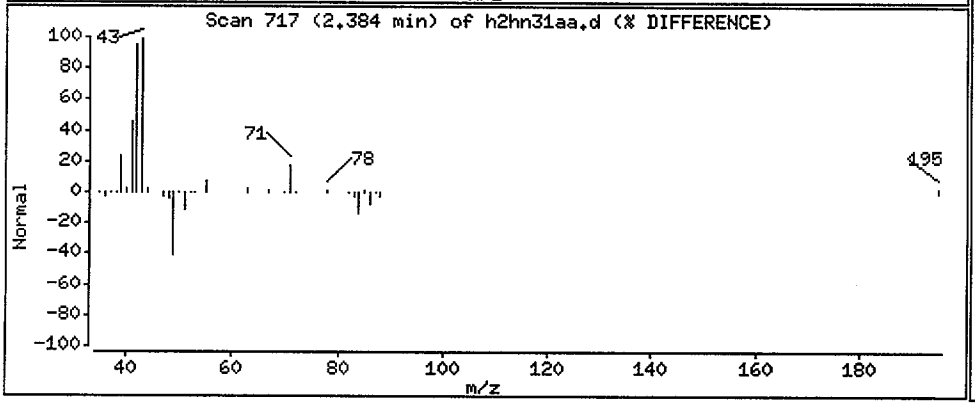












Data File: /chem/gcms/mk.i/K040406.b/h2hn31aa.d

Date : 04-APR-2006 19:11

Client ID: G-2889-R1-SPENT ACT

Instrument: mk.i

Sample Info: H2HN31AA,5,0,,

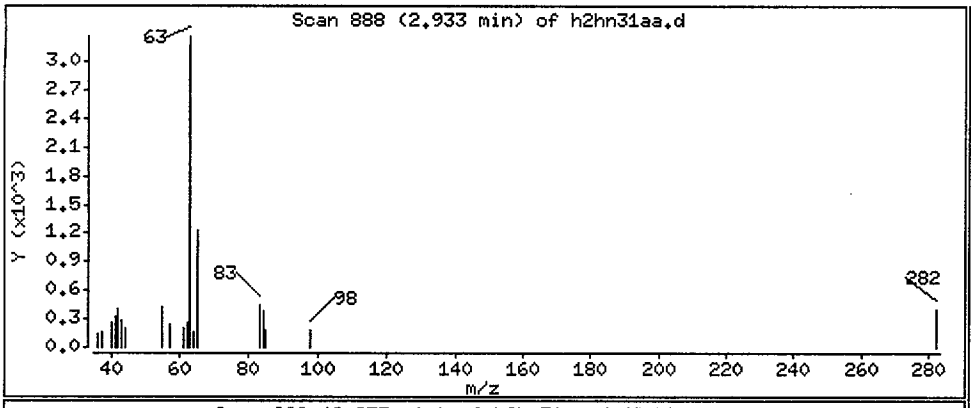
Operator: 063605

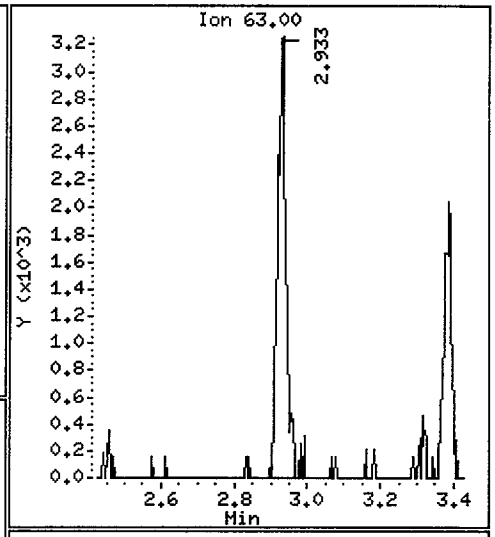
Column phase: J&W-624

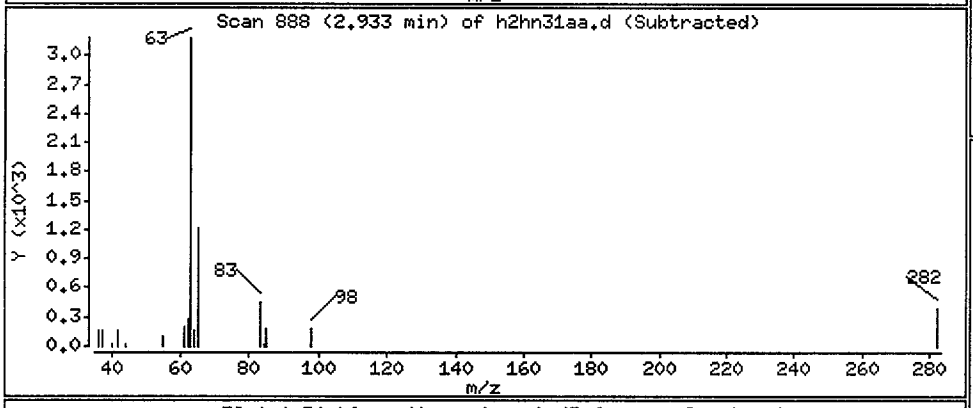
Column diameter: 0.18

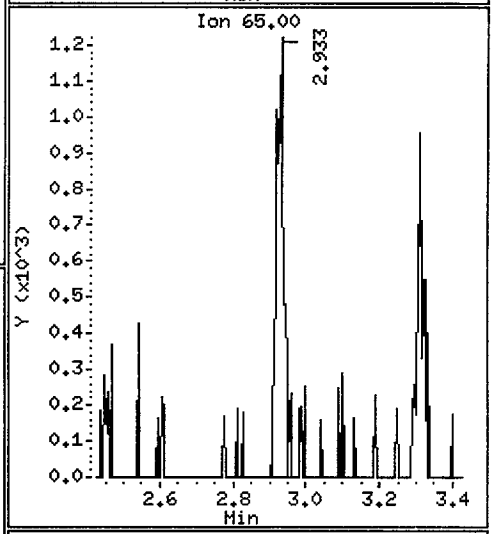
32 1,1-Dichloroethane (spcc)

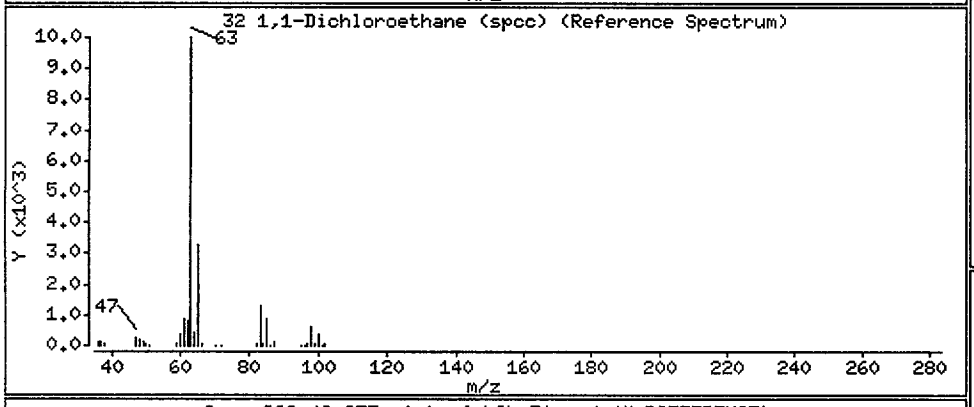
Concentration: 147.78 ug/Kg

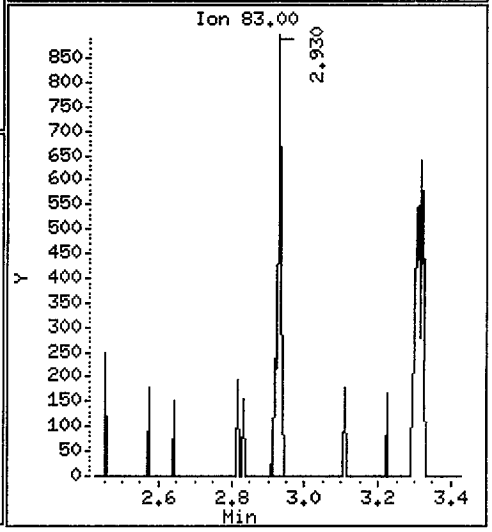


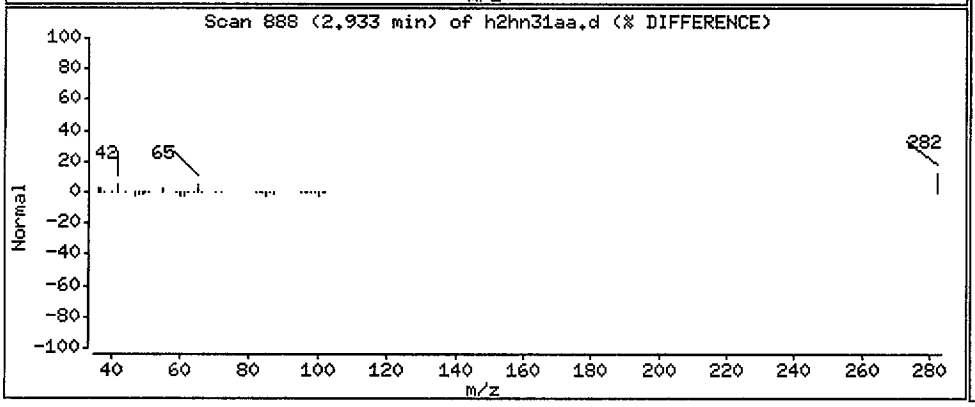












Data File: /chem/gcms/mk.i/K040406.b/h2hn31aa.d

Date : 04-APR-2006 19:11

Client ID: G-2889-R1-SPENT ACT

Instrument: mk.i

Sample Info: H2HN31AA,5,0,,

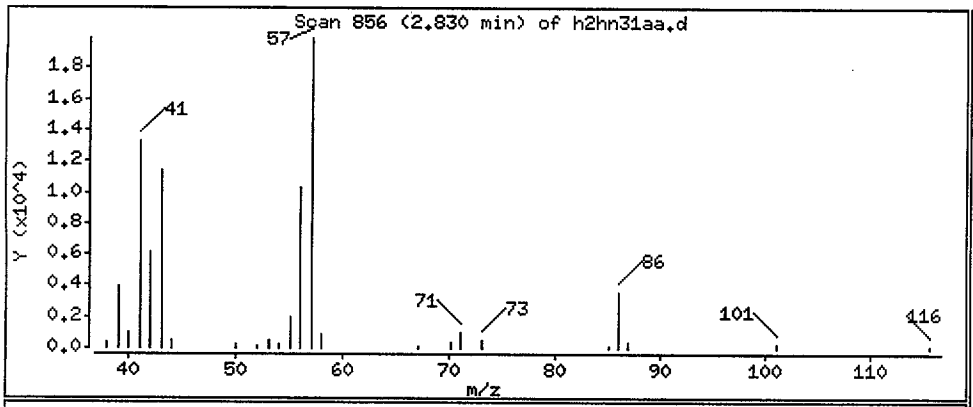
Operator: 063605

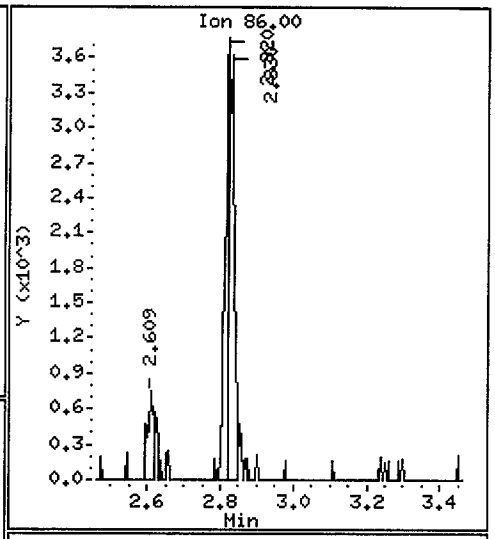
Column phase: J&W-624

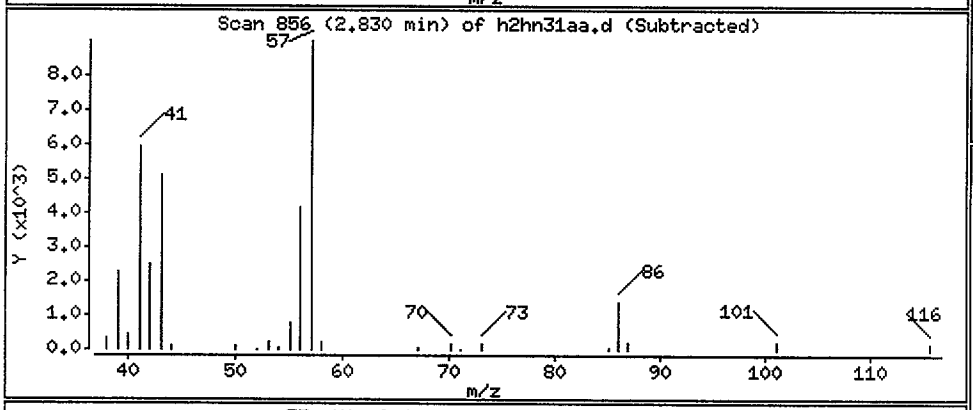
Column diameter: 0.18

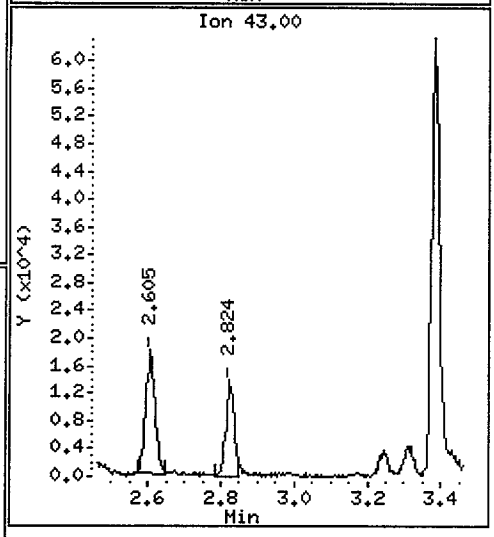
33 *Vinyl Acetate

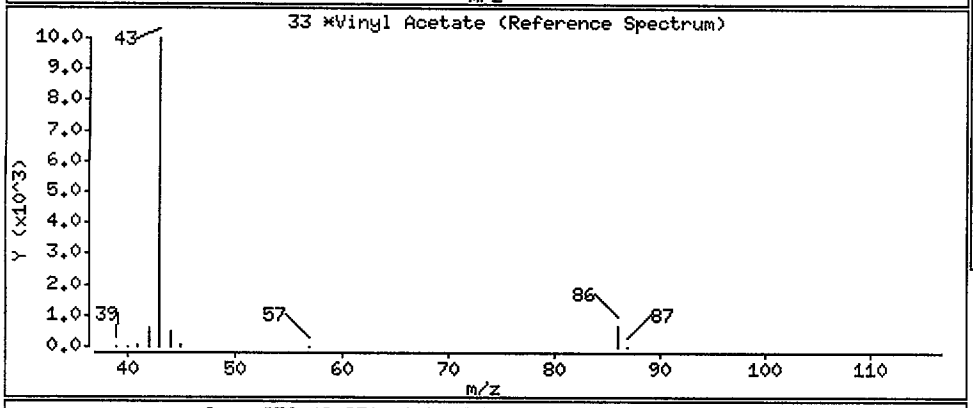
Concentration: 1064.1 ug/Kg

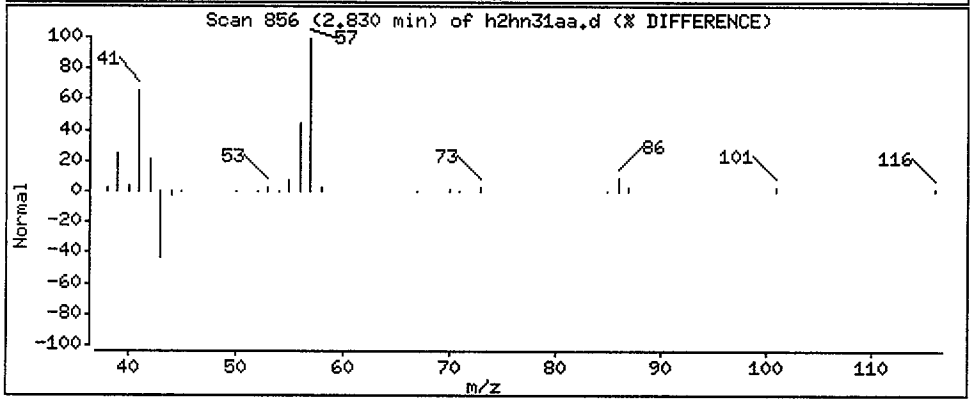












Data File: /chem/gcms/mk.i/K040406.b/h2hn31aa.d

Date : 04-APR-2006 19:11

Client ID: G-2889-R1-SPENT ACT

Instrument: mk.i

Sample Info: H2HN31AA,5,0,,

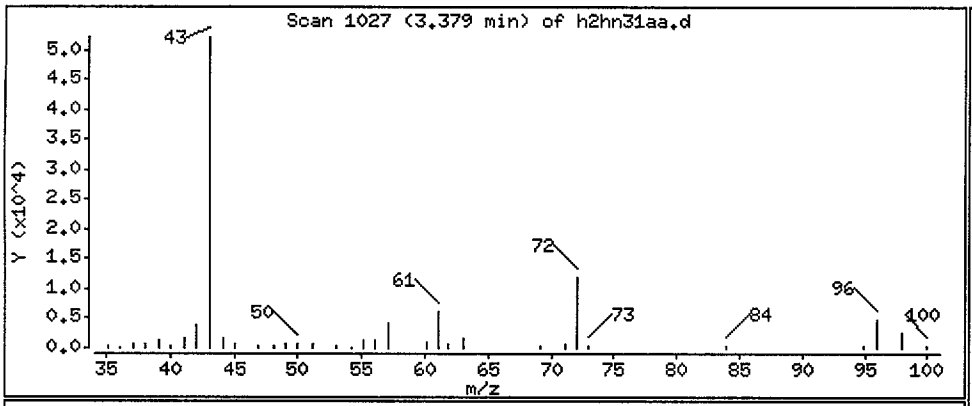
Operator: 063605

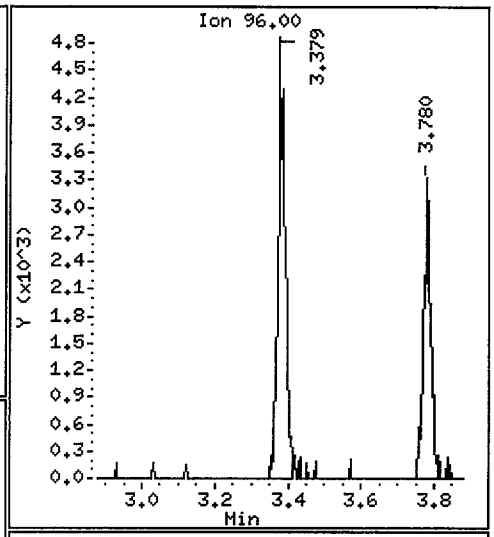
Column phase: J&W-624

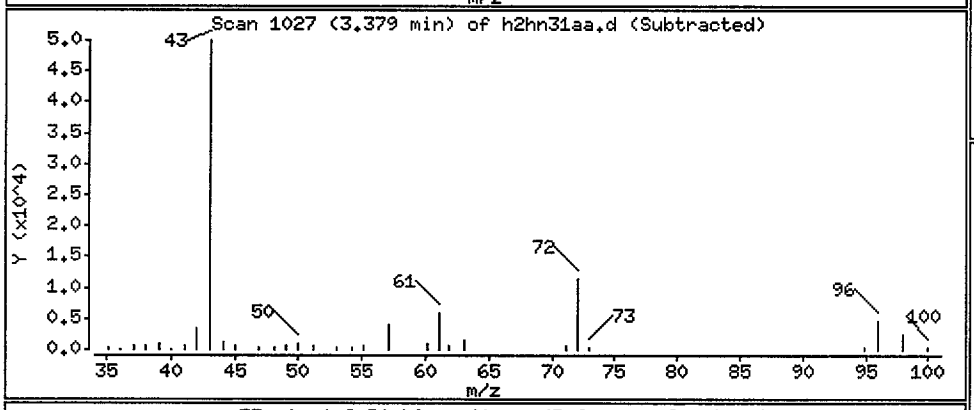
Column diameter: 0.18

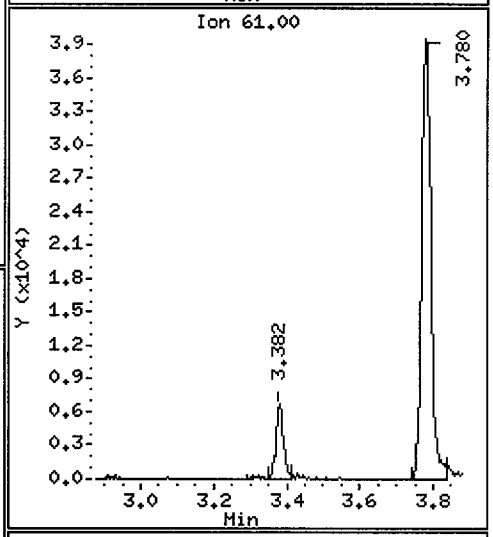
35 cis 1,2-Dichloroethene

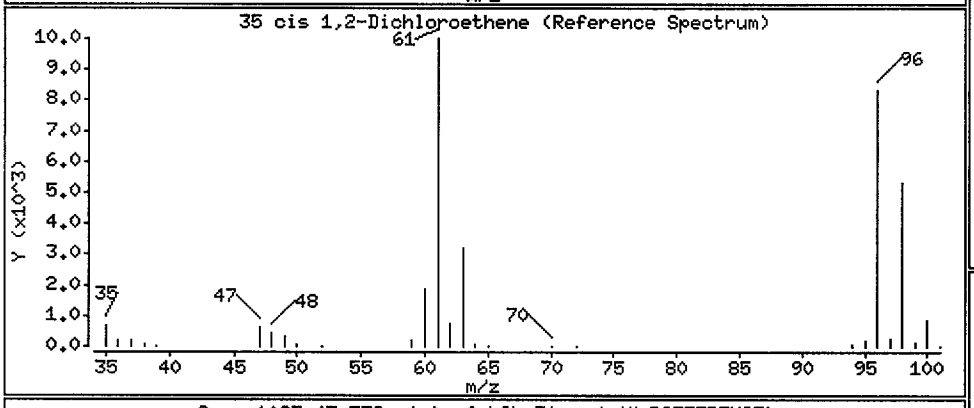
Concentration: 315.47 ug/Kg

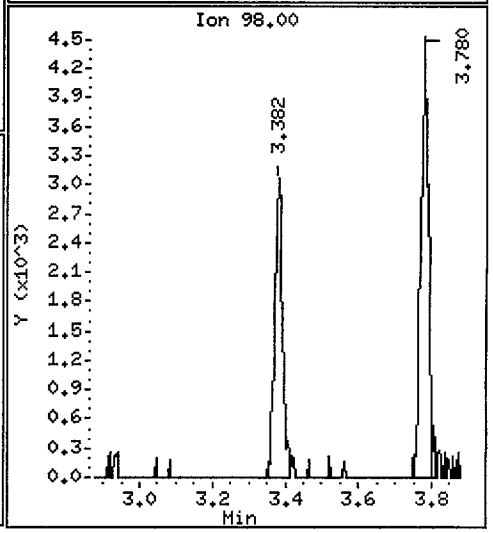


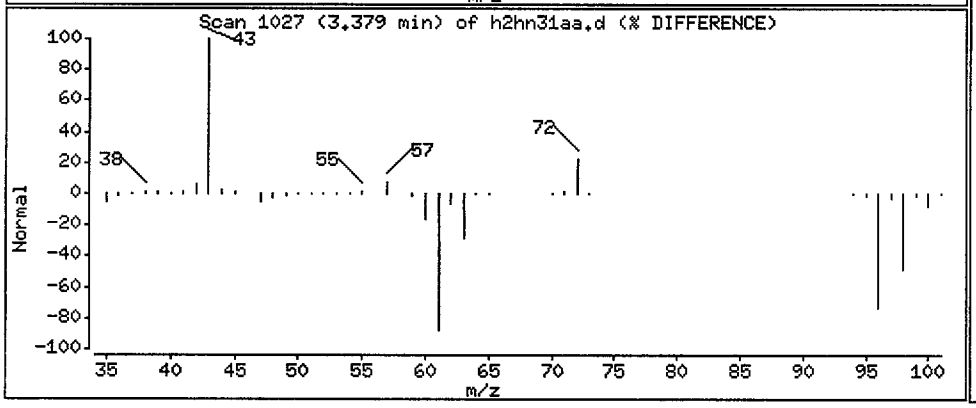












Data File: /chem/gcms/mk.i/K040406.b/h2hn31aa.d

Date : 04-APR-2006 19:11

Client ID: G-2889-R1-SPENT ACT

Instrument: mk.i

Sample Info: H2HN31AA,5,0,,

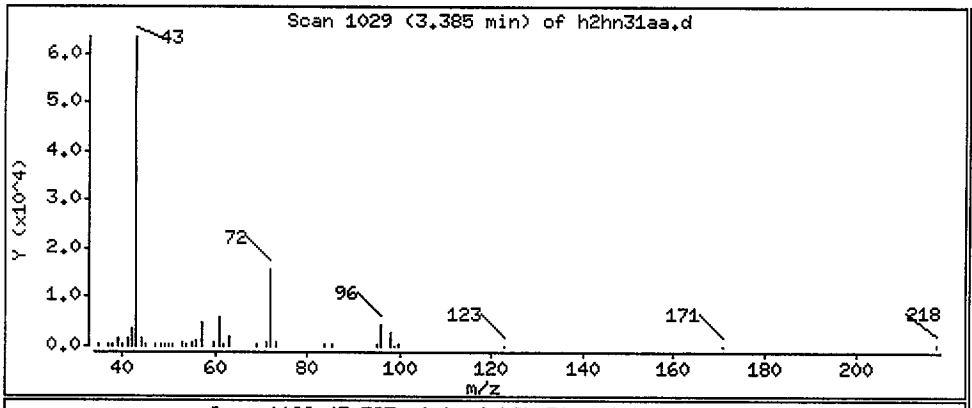
Operator: 063605

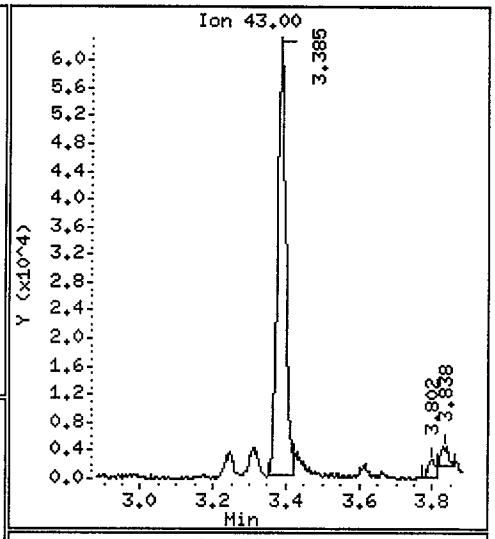
Column phase: J&W-624

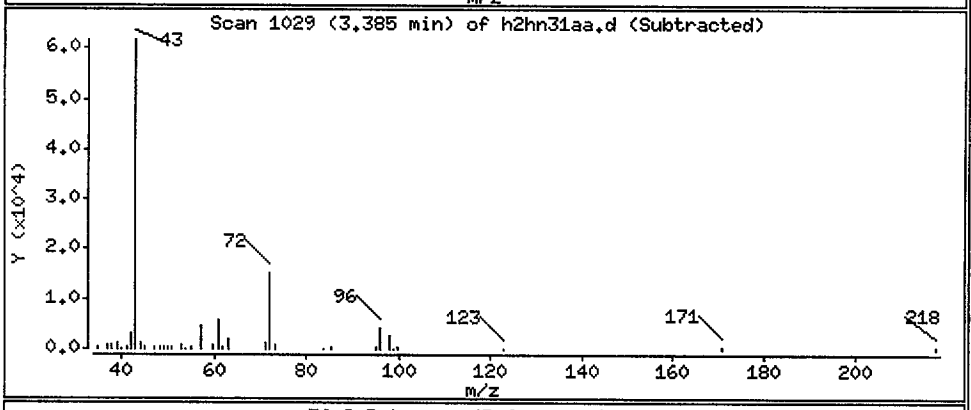
Column diameter: 0.18

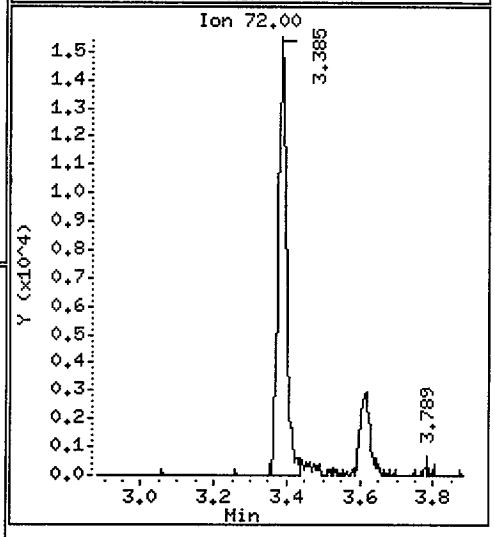
36 2-Butanone

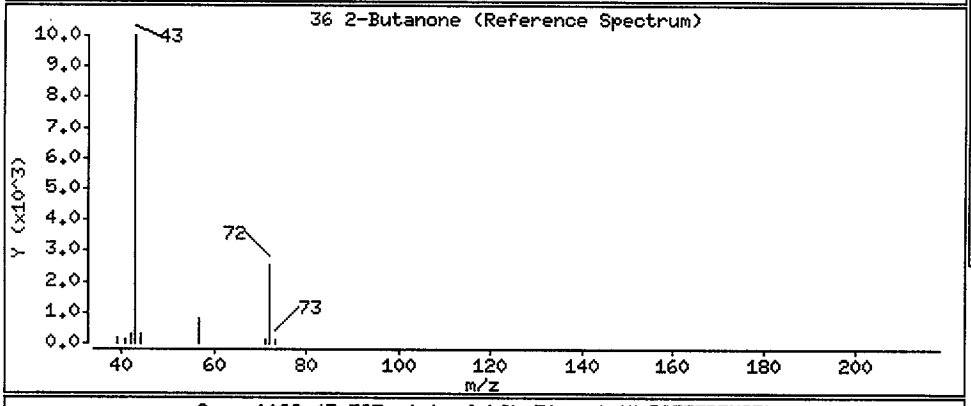
Concentration: 13824 ug/Kg

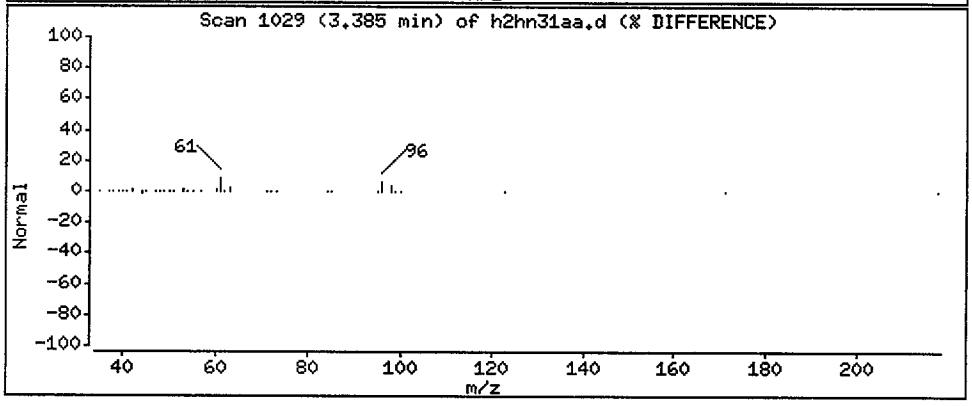












Data File: /chem/gcms/mk.i/K040406.b/h2hn31aa.d

Date : 04-APR-2006 19:11

Client ID: G-2889-R1-SPENT ACT

Instrument: mk.i

Sample Info: H2HN31AA,5,0,,

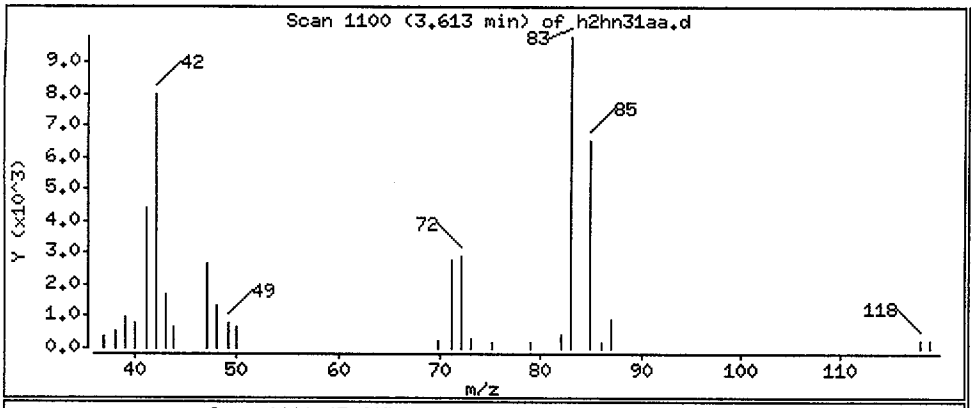
Operator: 063605

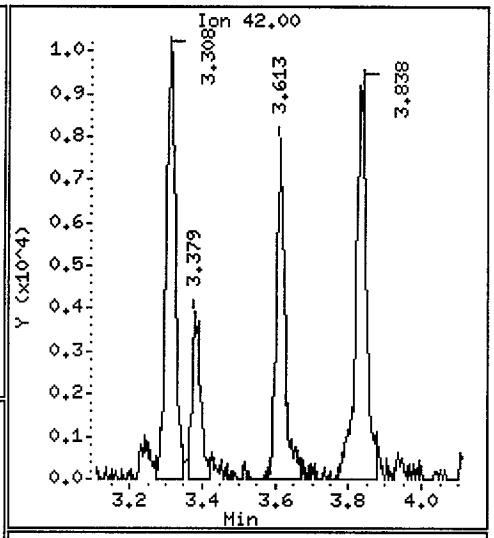
Column phase: J&W-624

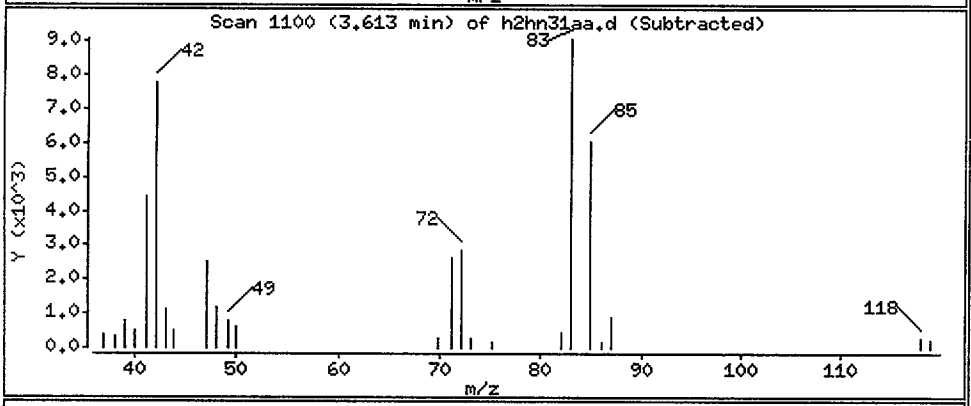
Column diameter: 0.18

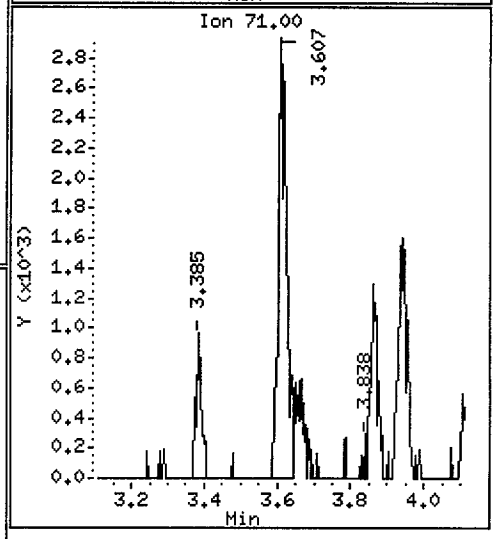
39 *THF

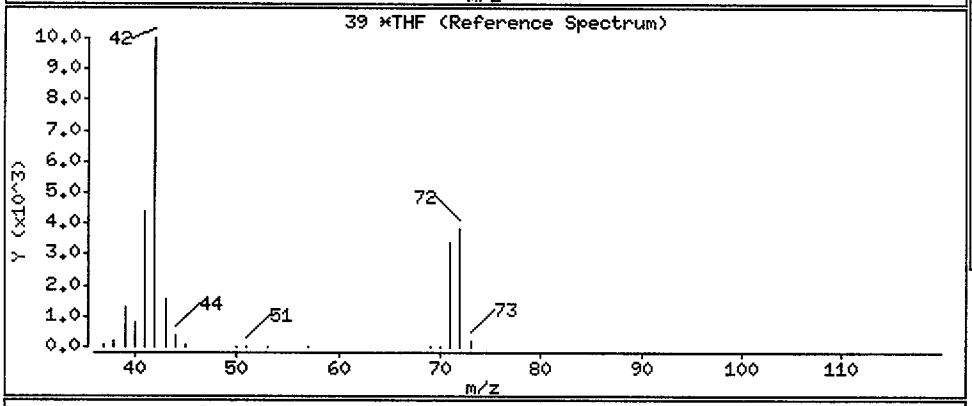
Concentration: 2738.8 ug/Kg

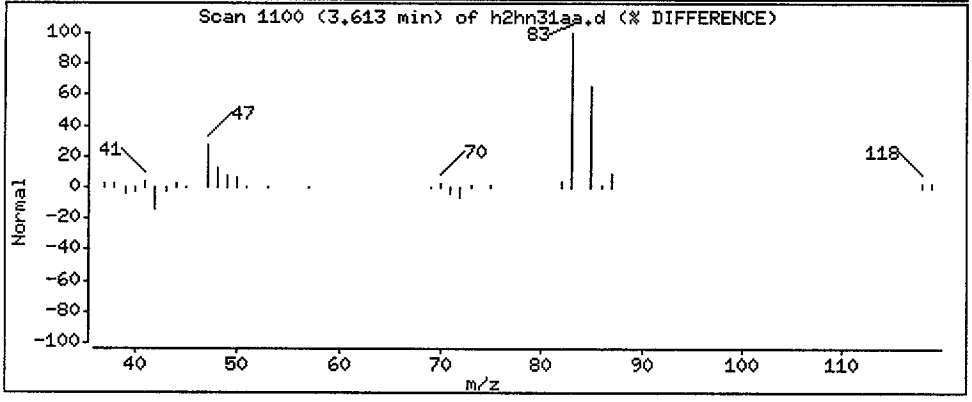












Data File: /chem/gcms/mk.i/K040406.b/h2hn31aa.d

Date : 04-APR-2006 19:11

Client ID: G-2889-R1-SPENT ACT

Instrument: mk.i

Sample Info: H2HN31AA,5,0,,

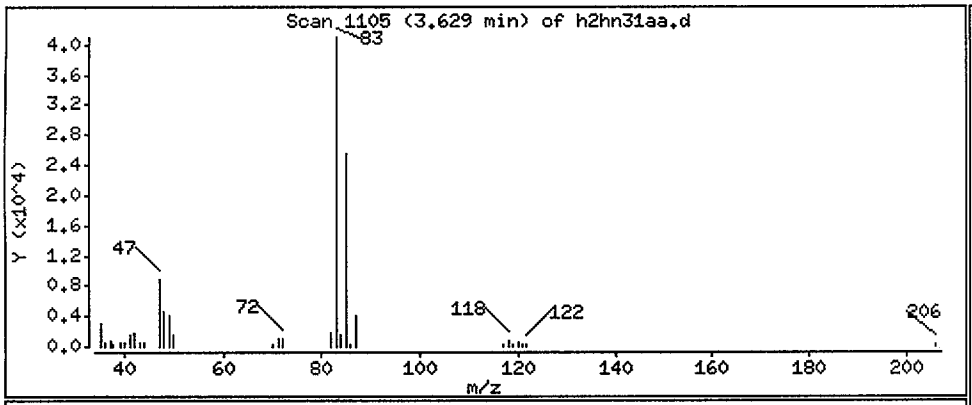
Operator: 063605

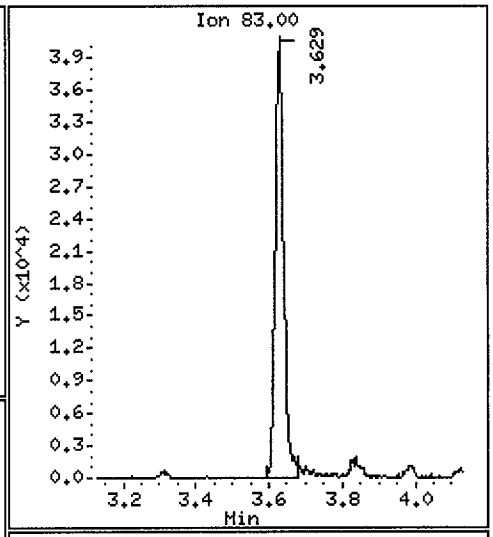
Column phase: J&W-624

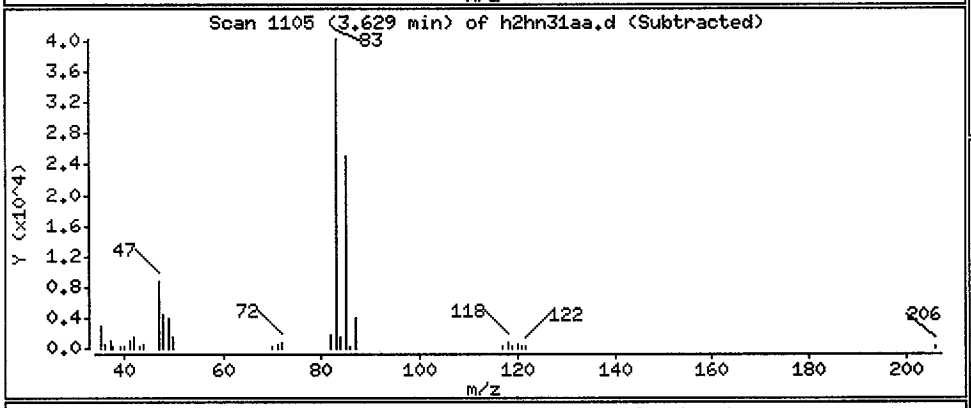
Column diameter: 0.18

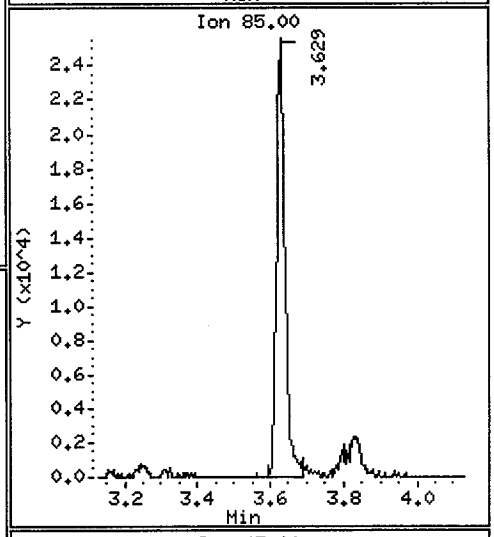
40 Chloroform (ccc)

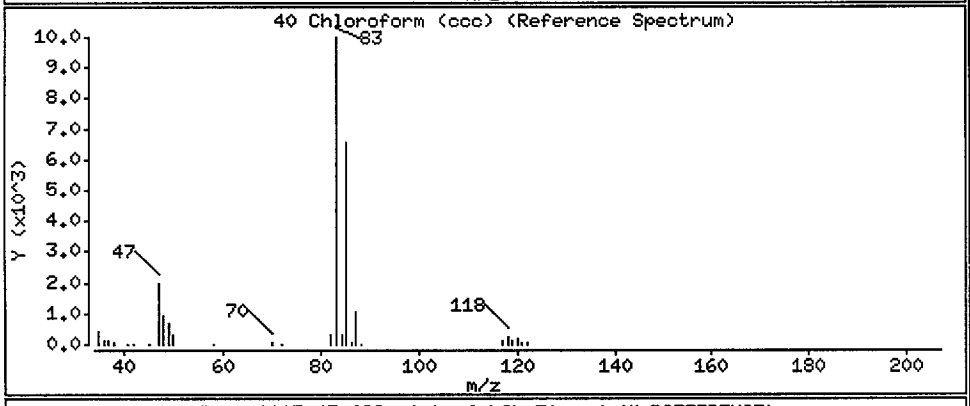
Concentration: 1943.6 ug/Kg

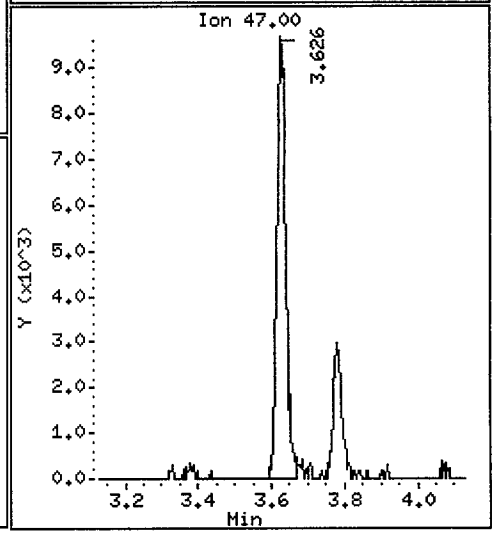


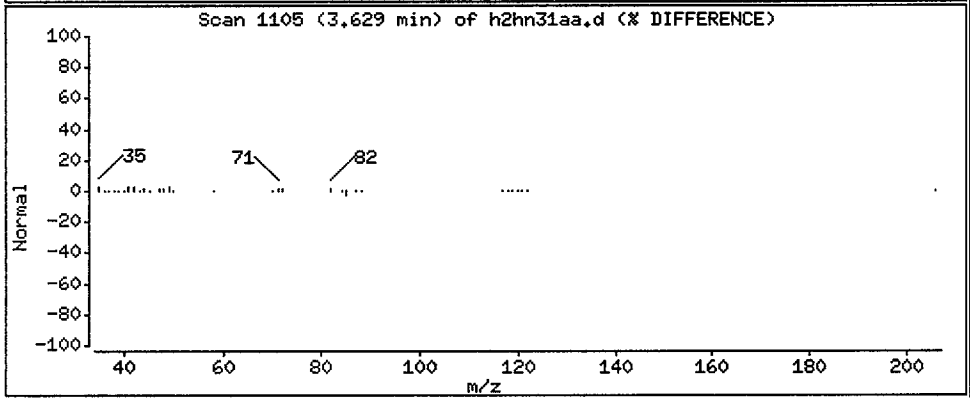












Data File: /chem/gcms/mk.i/K040406.b/h2hn31aa.d

Date : 04-APR-2006 19:11

Client ID: G-2889-R1-SPENT ACT

Instrument: mk.i

Sample Info: H2HN31AA,5,0,,

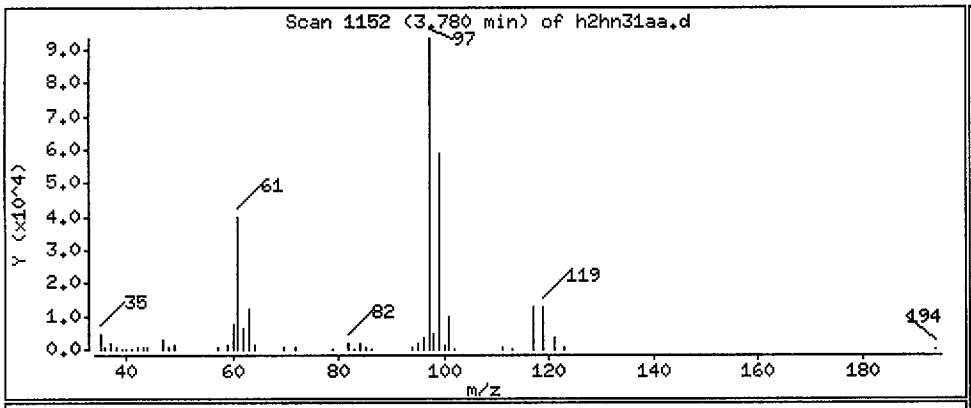
Operator: 063605

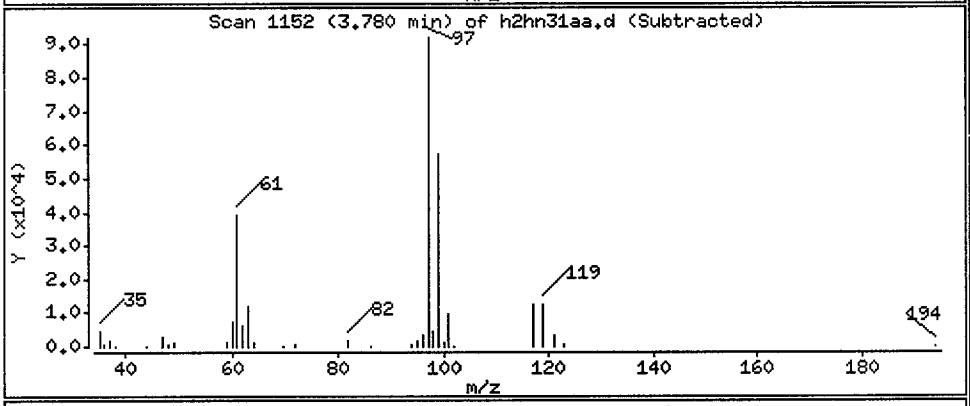
Column phase: J&W-624

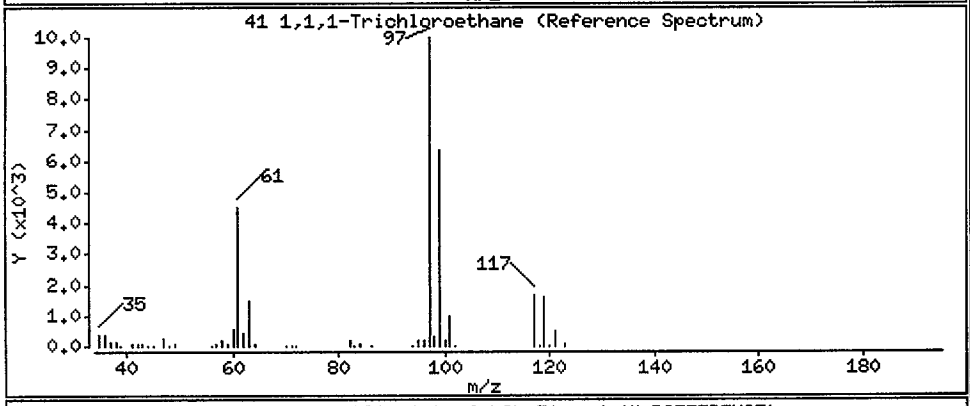
Column diameter: 0.18

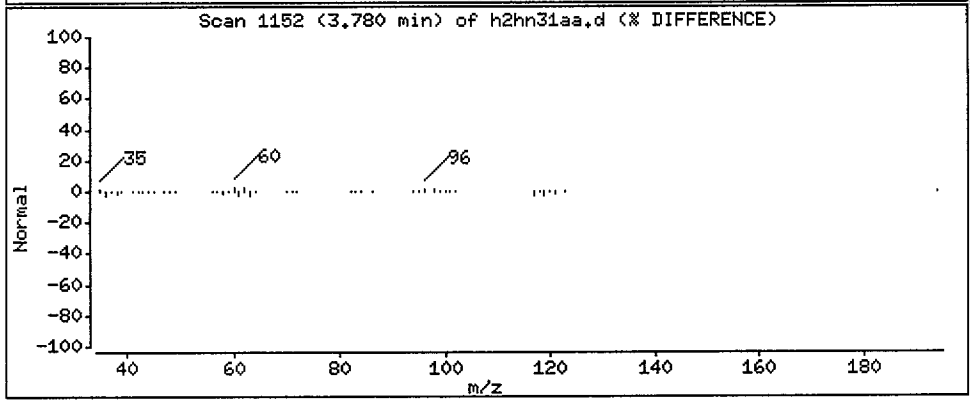
41 1,1,1-Trichloroethane

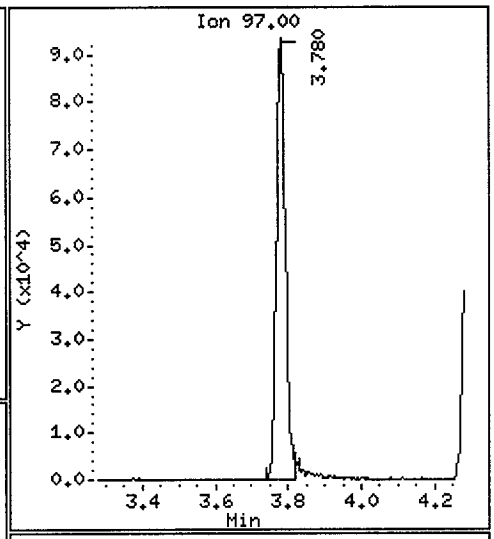
Concentration: 5630.1 ug/Kg

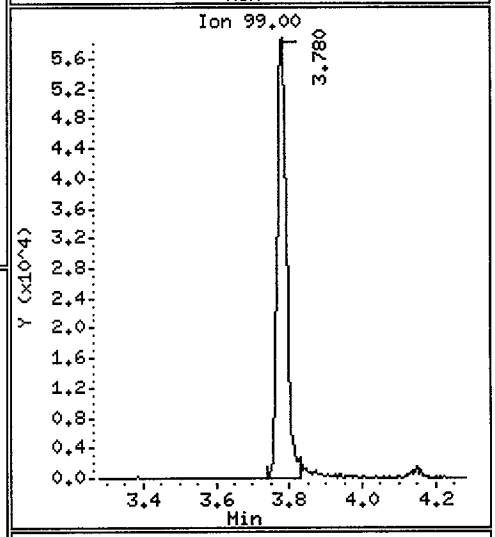


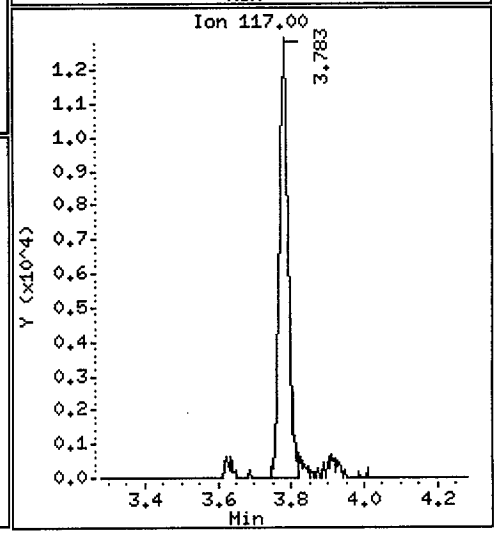












Data File: /chem/gcms/mk.i/K040406.b/h2hn31aa.d

Date : 04-APR-2006 19:11

Client ID: G-2889-R1-SPENT ACT

Instrument: mk.i

Sample Info: H2HN31AA,5,0,,

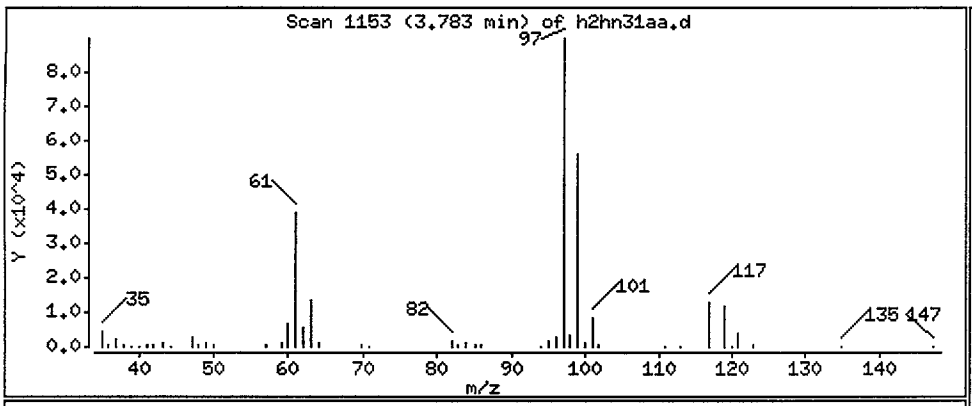
Operator: 063605

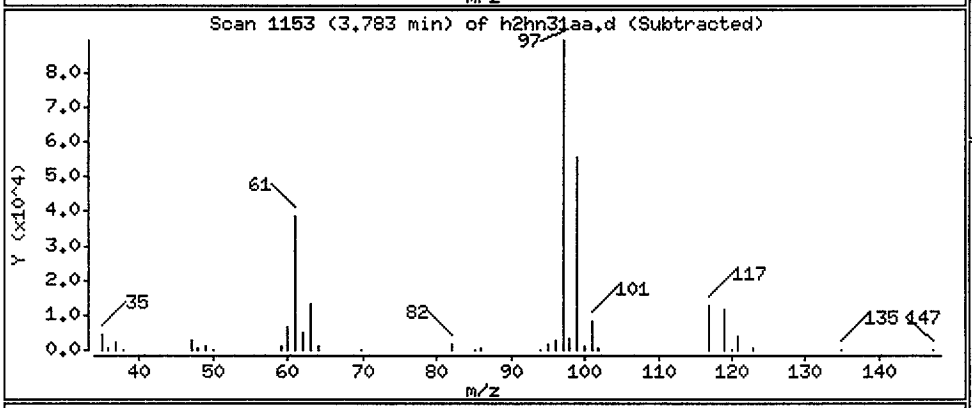
Column phase: J&W-624

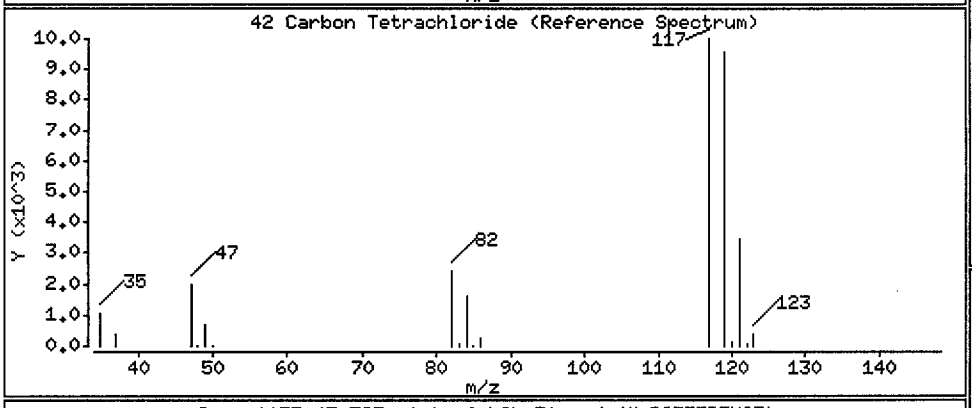
Column diameter: 0.18

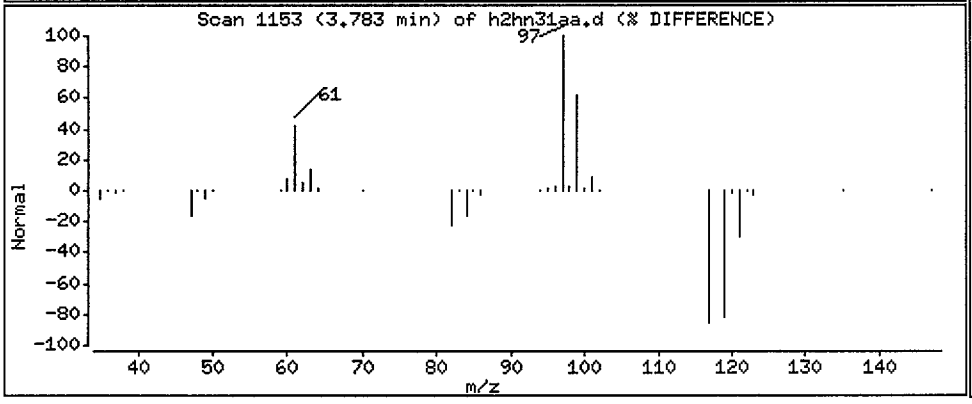
42 Carbon Tetrachloride

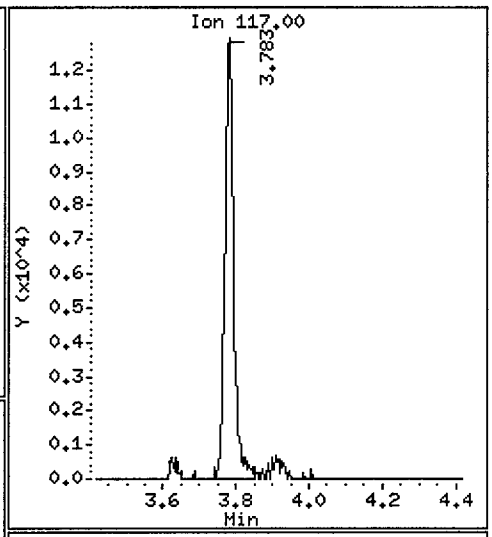
Concentration: 987.51 ug/Kg

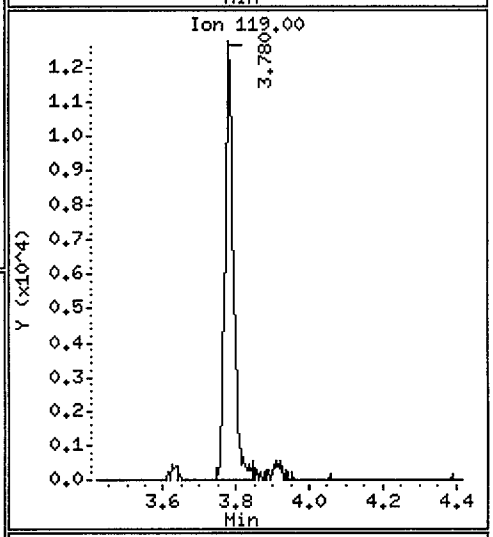


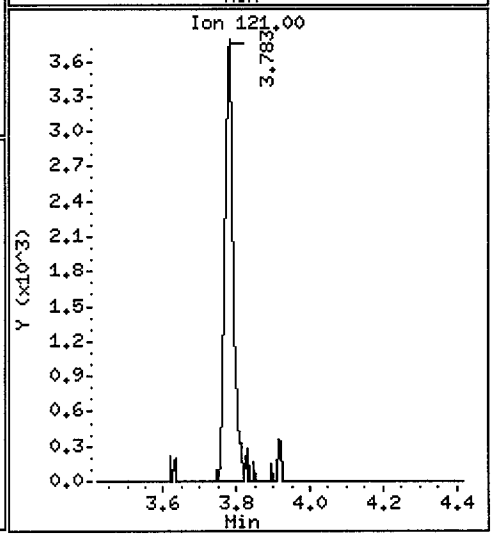












Data File: /chem/gcms/mk.i/K040406.b/h2hn31aa.d

Date : 04-APR-2006 19:11

Client ID: G-2889-R1-SPENT ACT

Instrument: mk.i

Sample Info: H2HN31AA,5,0,,

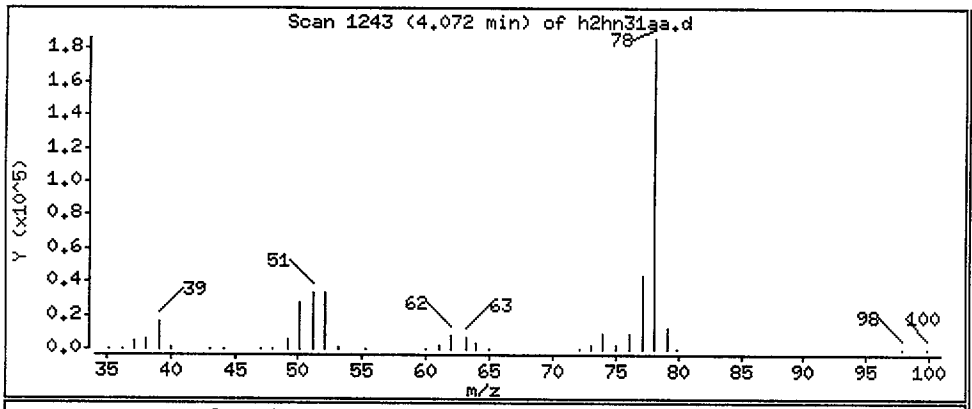
Operator: 063605

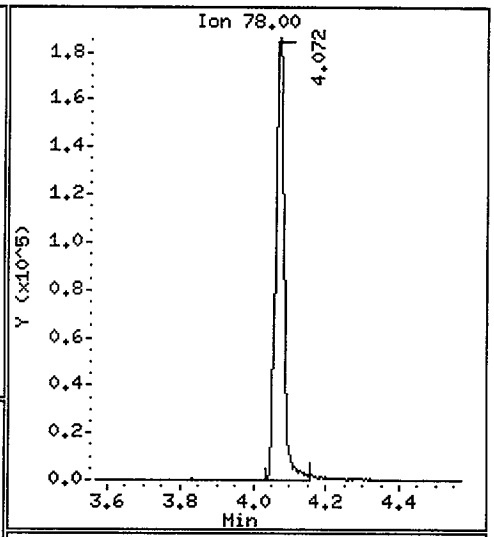
Column phase: J&W-624

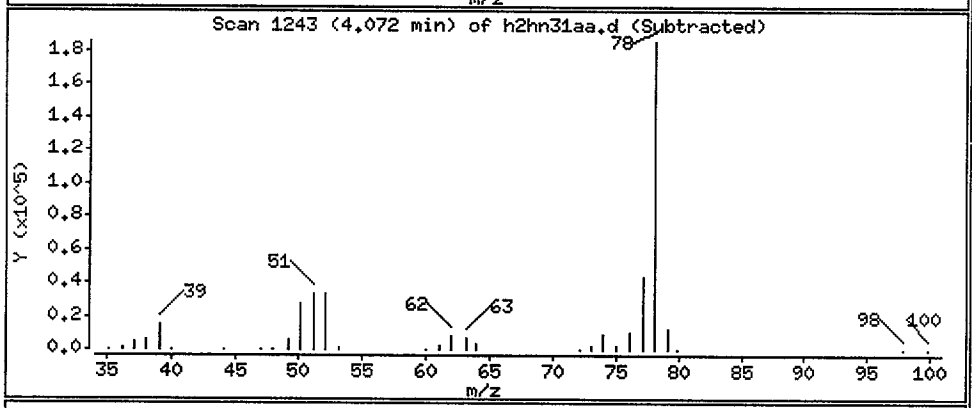
Column diameter: 0.18

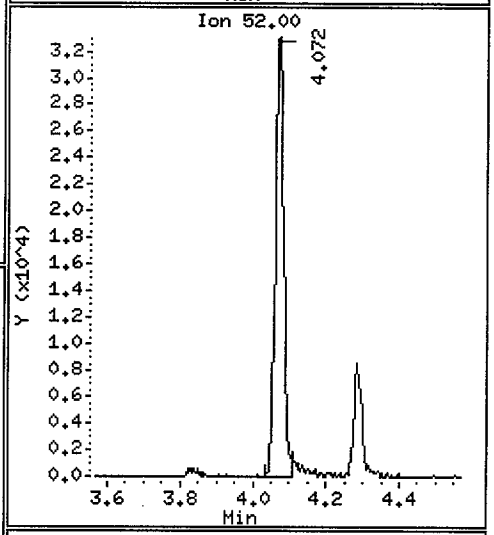
44 Benzene

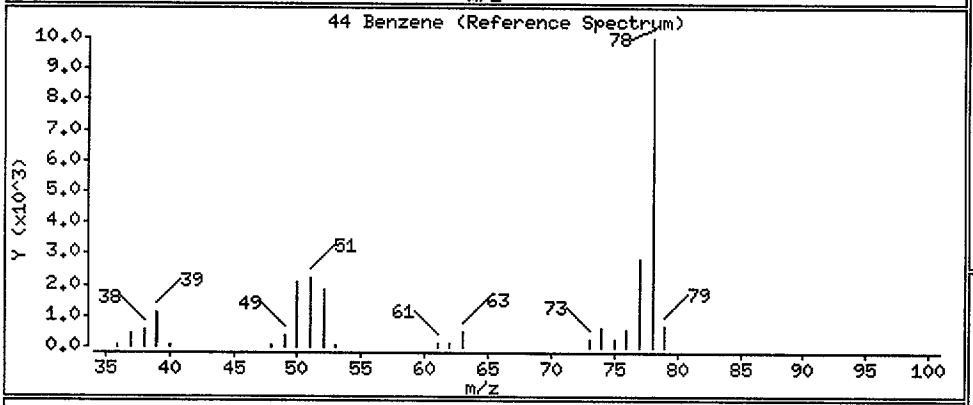
Concentration: 3822.5 ug/Kg

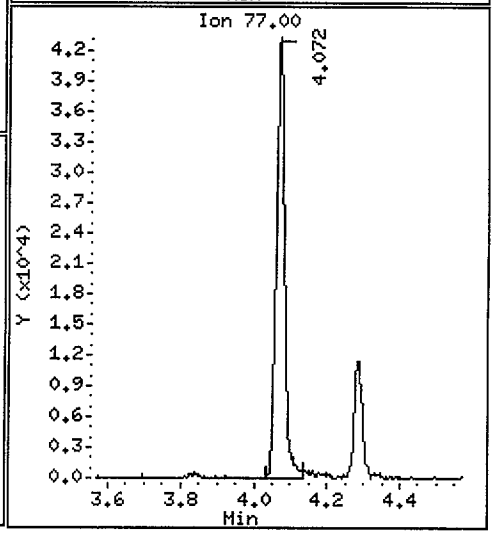


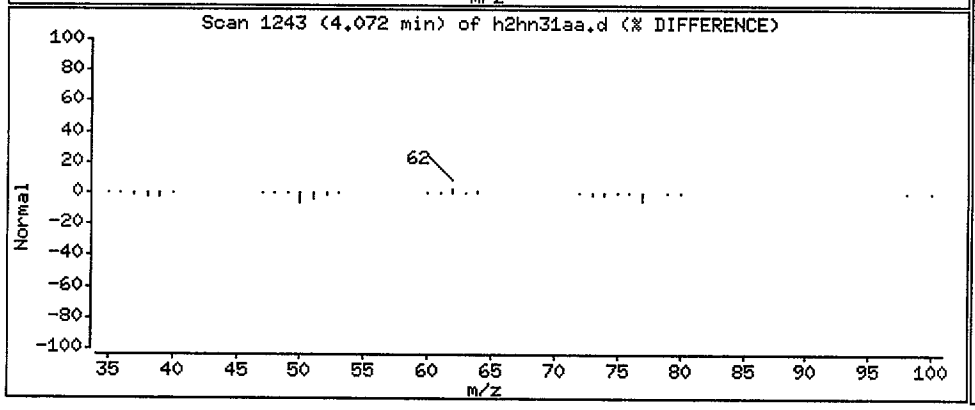












Data File: /chem/gcms/mk.i/K040406.b/h2hn31aa.d

Date : 04-APR-2006 19:11

Client ID: G-2889-R1-SPENT ACT

Instrument: mk.i

Sample Info: H2HN31AA,5,0,,

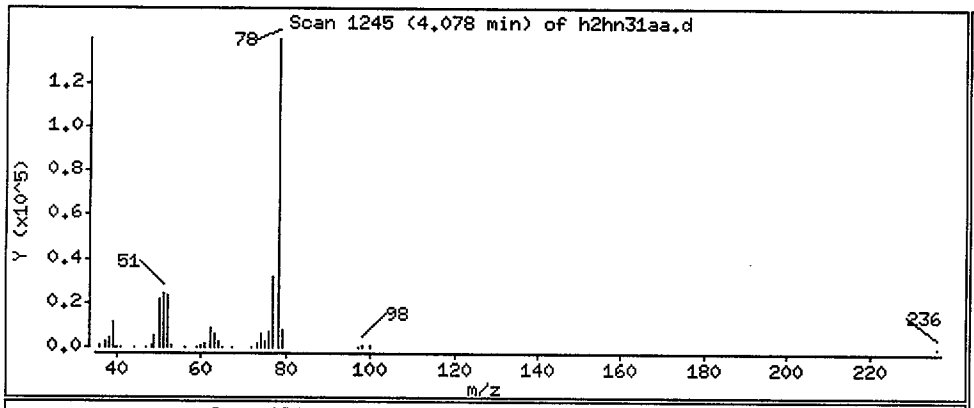
Operator: 063605

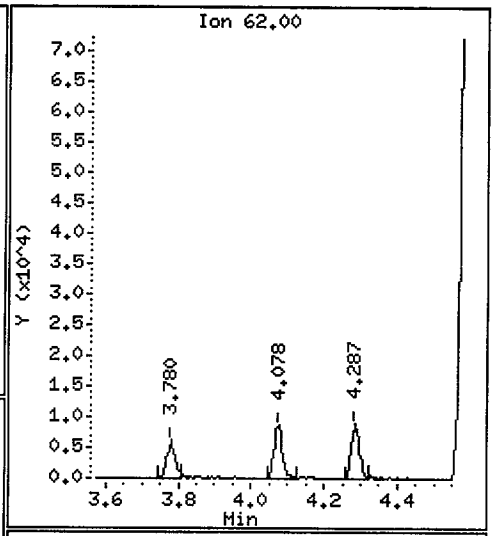
Column phase: J&W-624

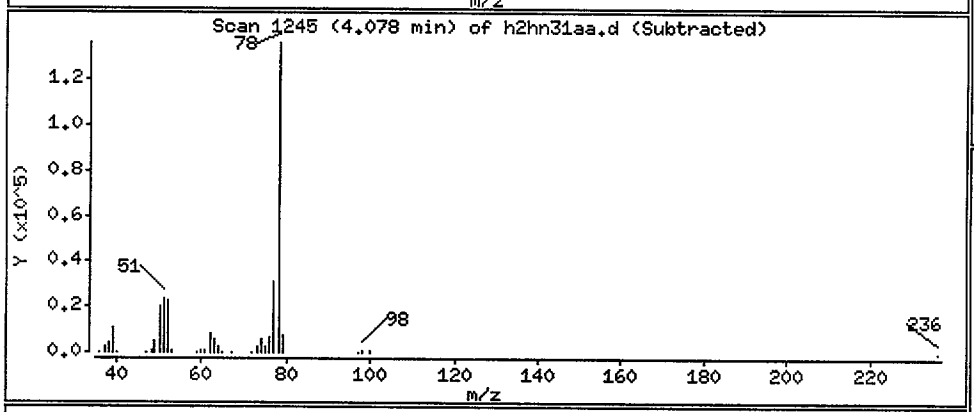
Column diameter: 0.18

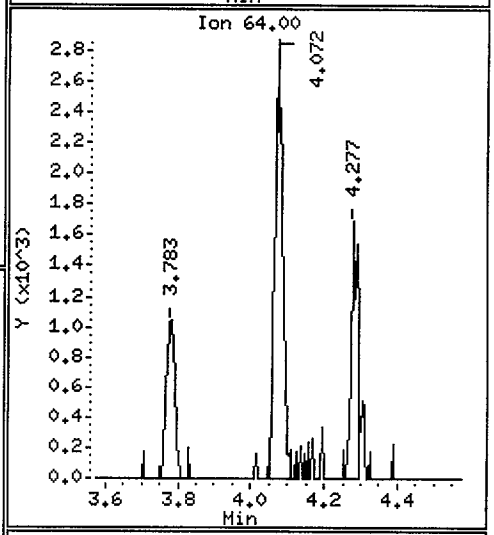
45 1,2-Dichloroethane

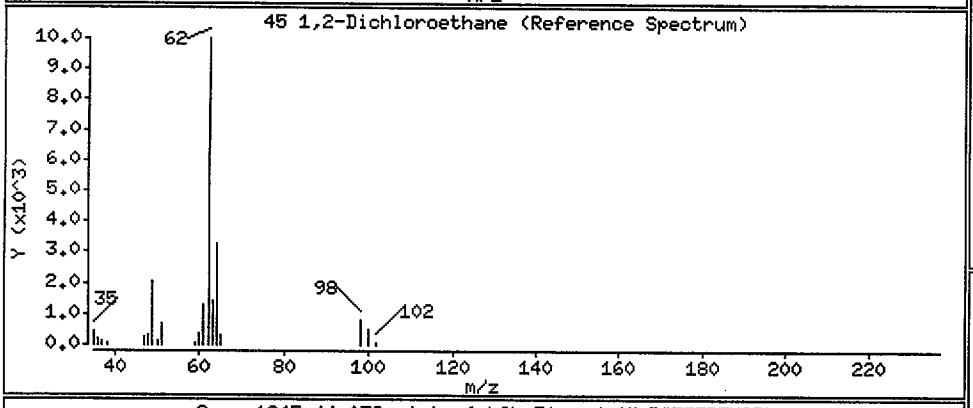
Concentration: 603.09 ug/Kg

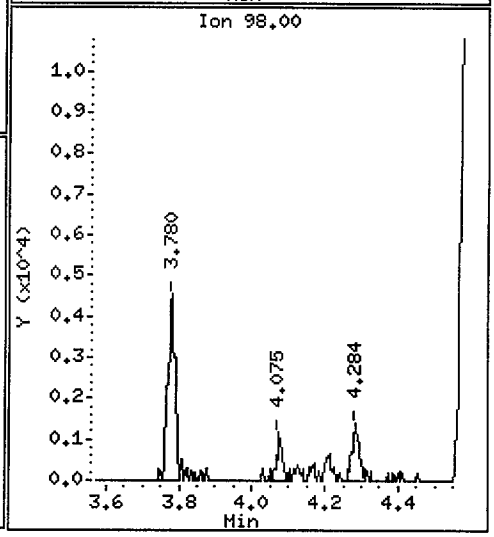


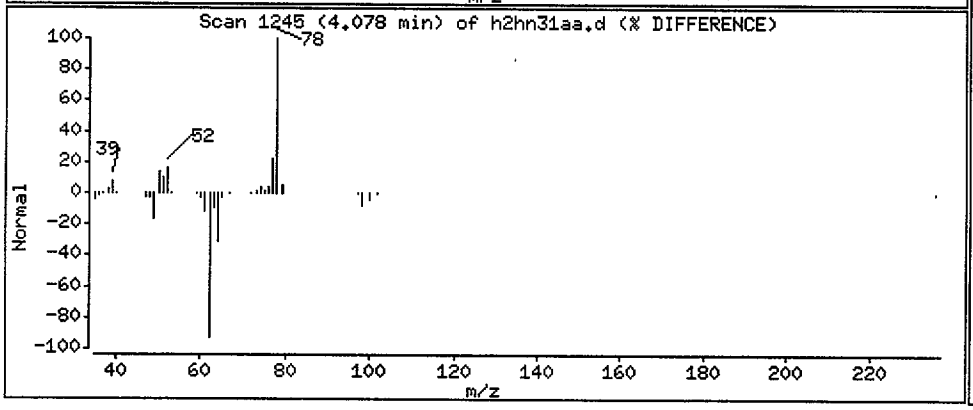












Data File: /chem/gcms/mk.i/K040406.b/h2hn31aa.d

Date : 04-APR-2006 19:11

Client ID: G-2889-R1-SPENT ACT

Instrument: mk.i

Sample Info: H2HN31AA,5,0,,

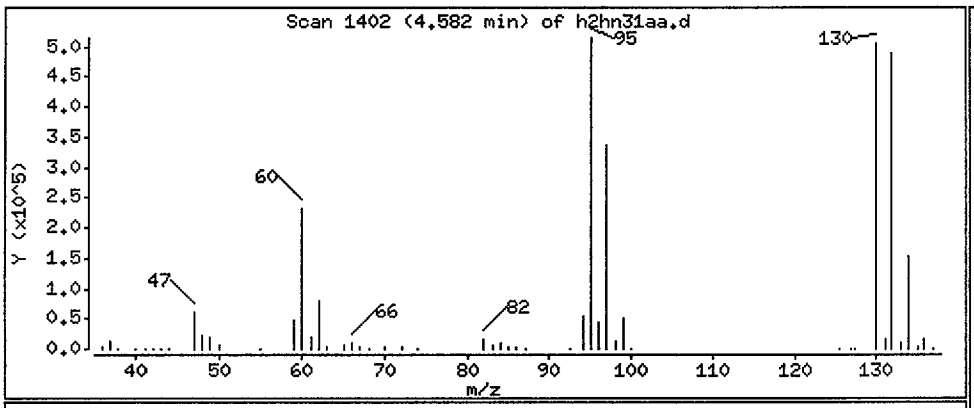
Operator: 063605

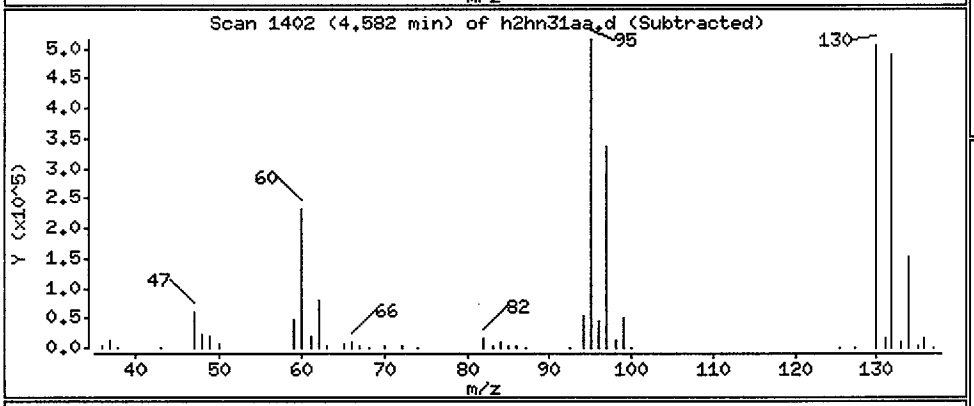
Column phase: J&W-624

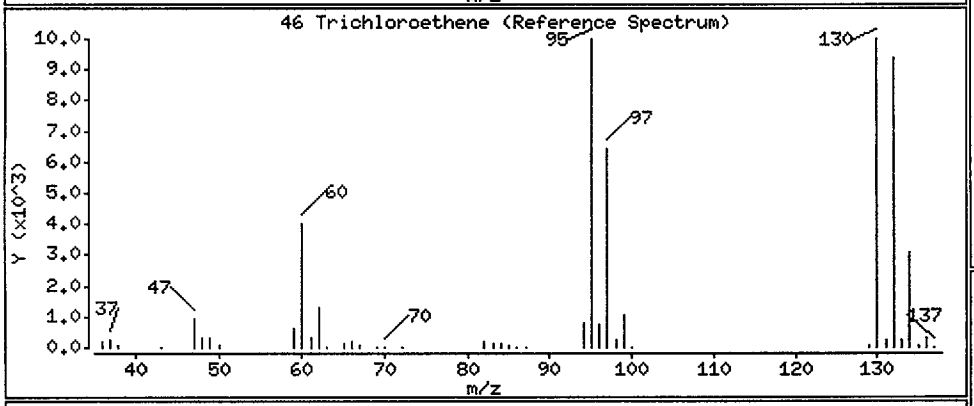
Column diameter: 0.18

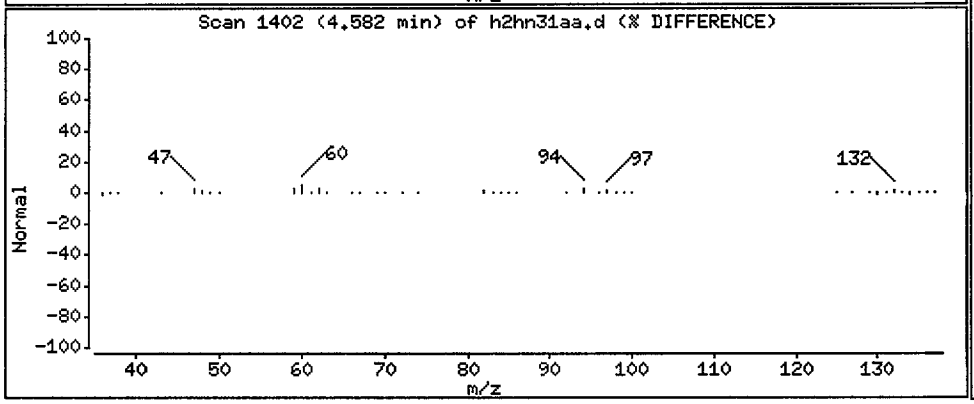
46 Trichloroethene

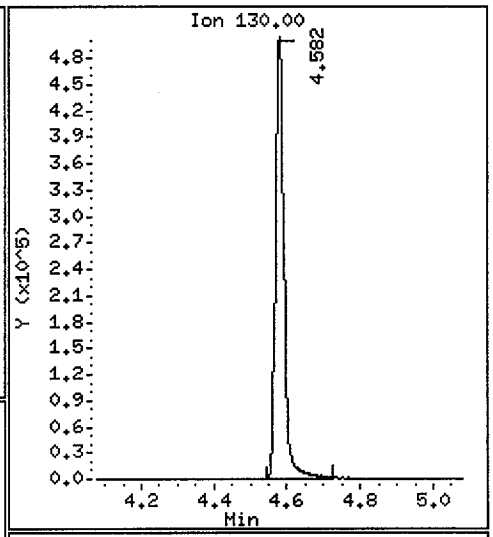
Concentration: 42580 ug/Kg

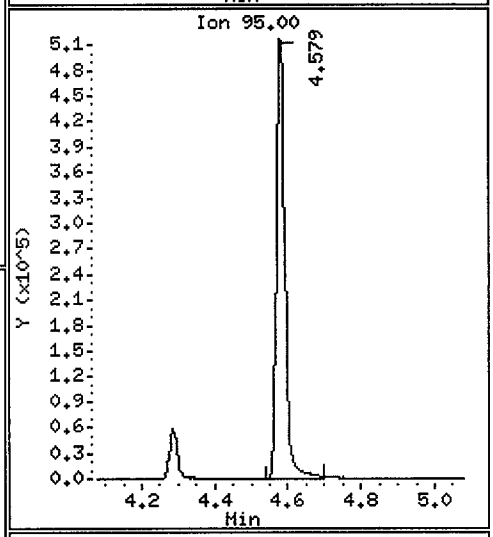


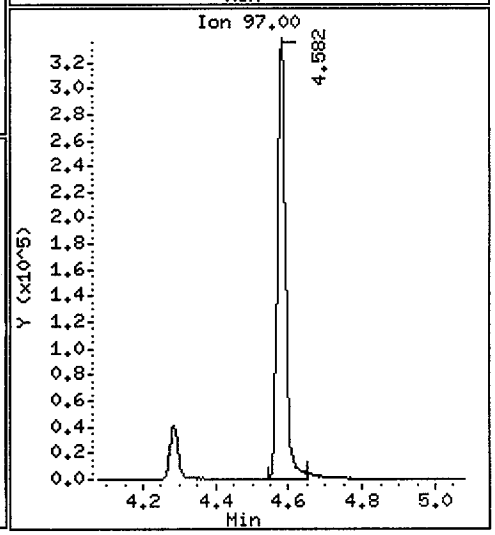












Data File: /chem/gcms/mk.i/K040406.b/h2hn31aa.d

Date : 04-APR-2006 19:11

Client ID: G-2889-R1-SPENT ACT

Instrument: mk.i

Sample Info: H2HN31AA,5,0,,

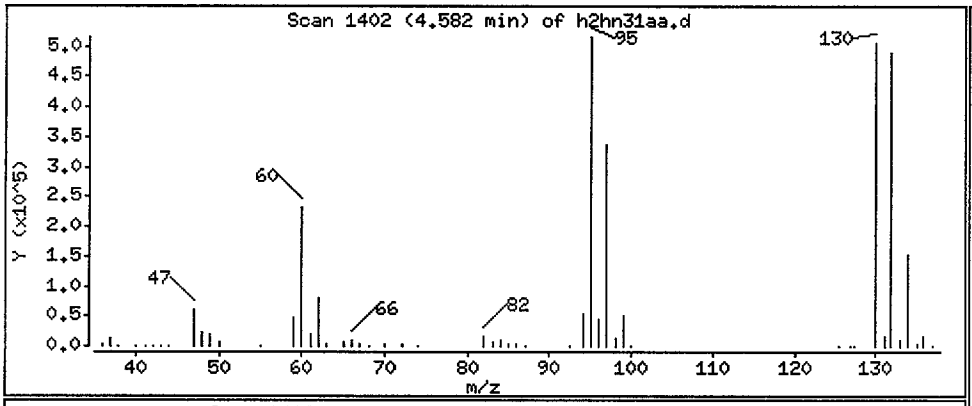
Operator: 063605

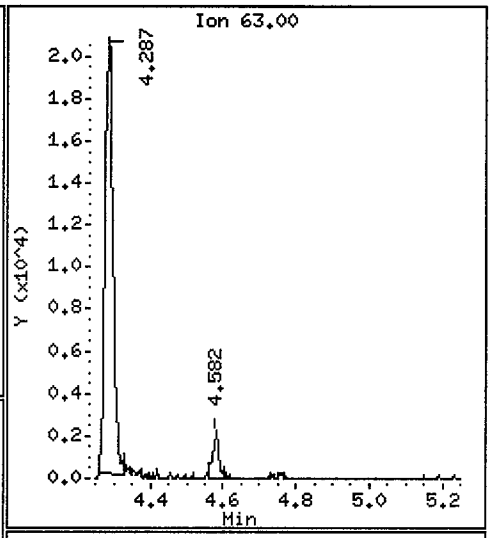
Column phase: J&W-624

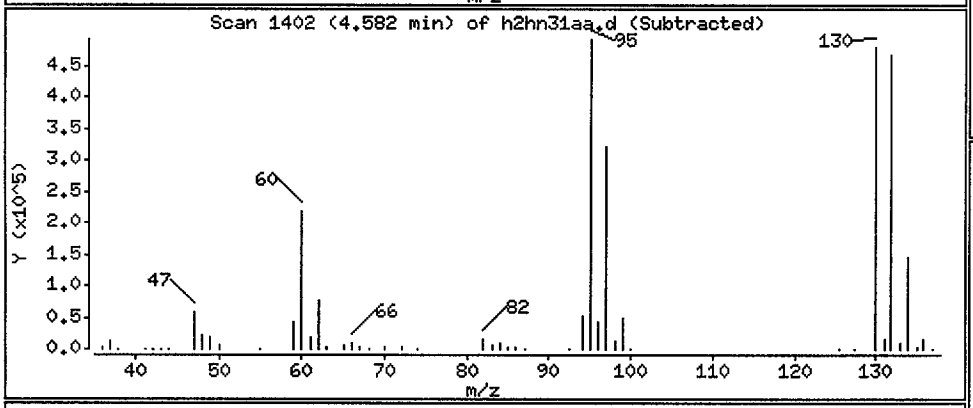
Column diameter: 0.18

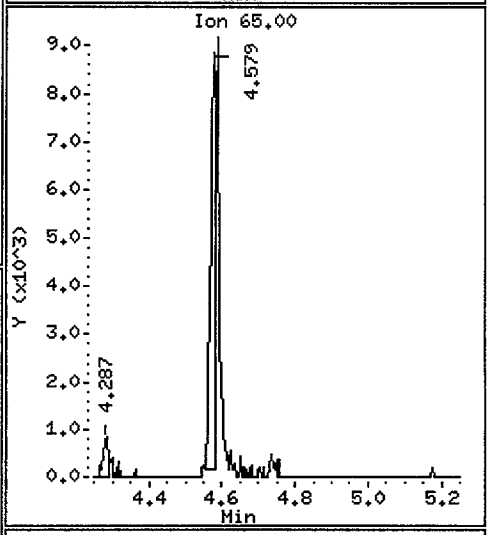
47 1,2-Dichloropropane (ccc)

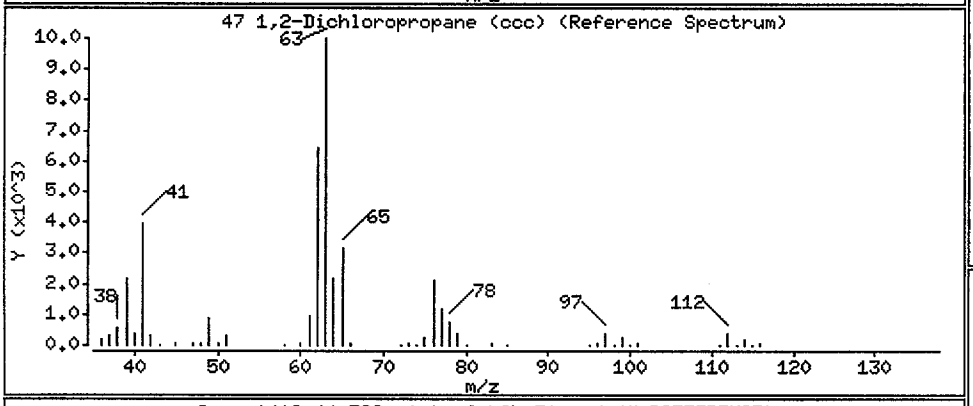
Concentration: 125.50 ug/Kg

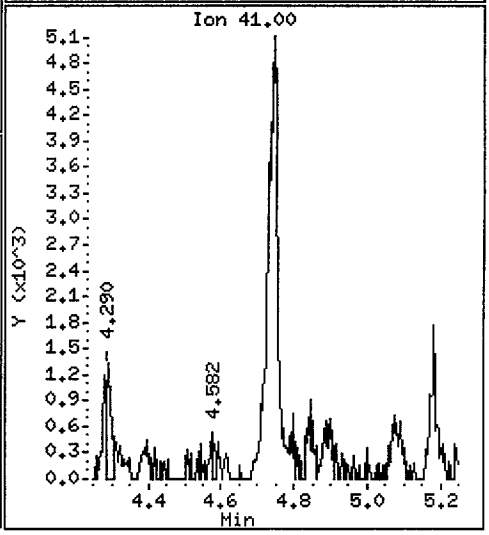


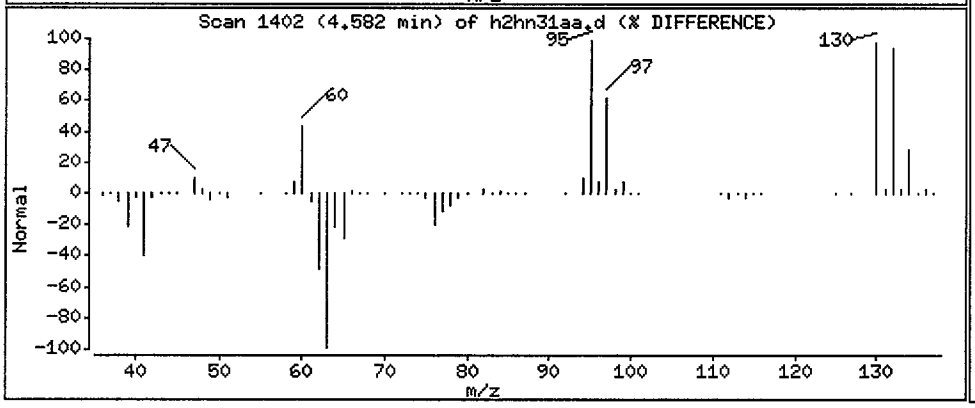












Data File: /chem/gcms/mk.i/K040406.b/h2hn31aa.d

Date : 04-APR-2006 19:11

Client ID: G-2889-R1-SPENT ACT

Instrument: mk.i

Sample Info: H2HN31AA,5,0,,

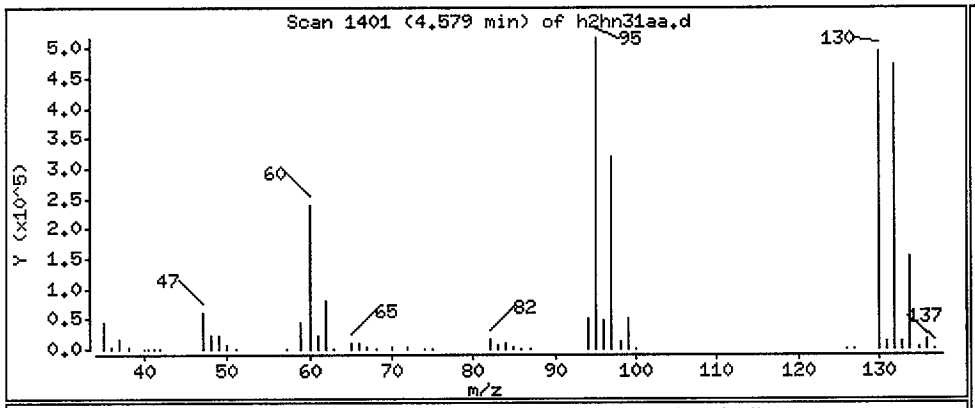
Operator: 063605

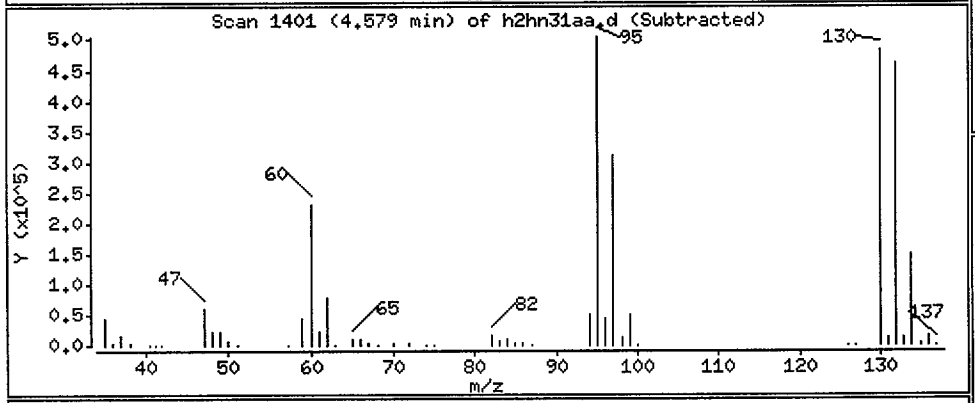
Column phase: J&W-624

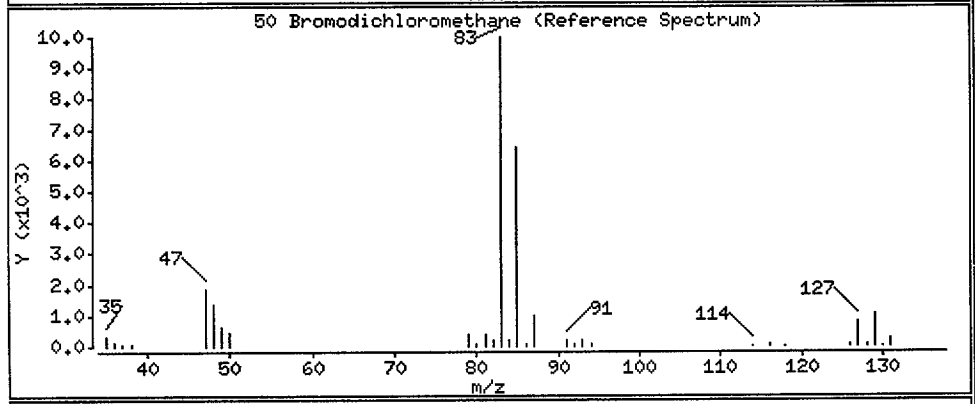
Column diameter: 0.18

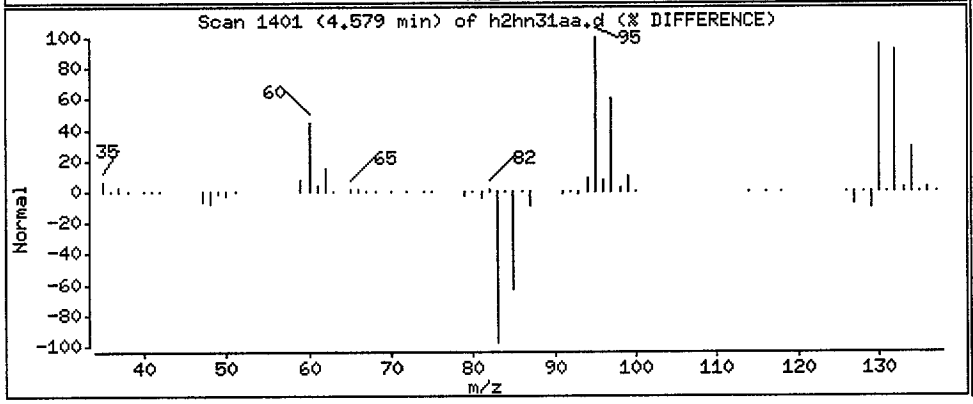
50 Bromodichloromethane

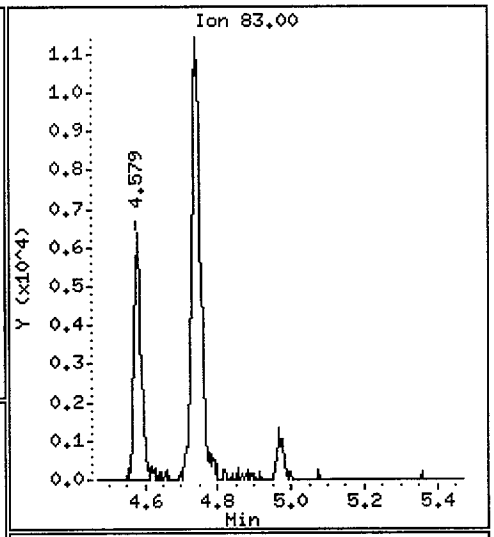
Concentration: 358.92 ug/Kg

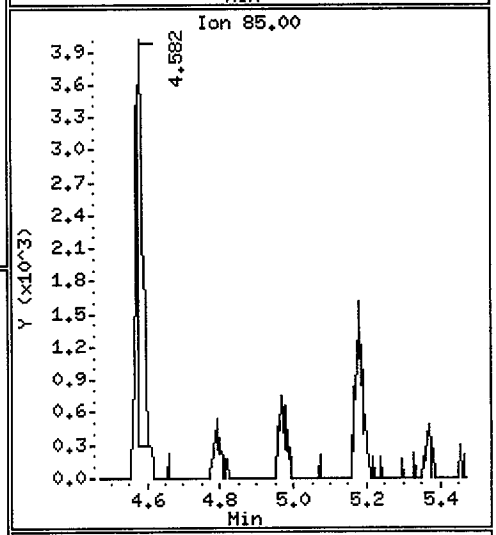


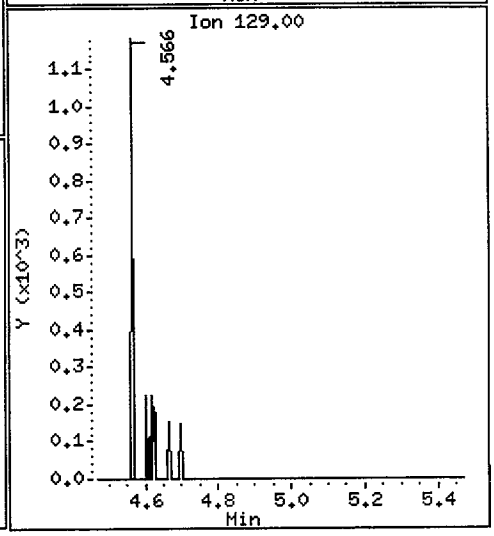












Data File: /chem/gcms/mk.i/K040406.b/h2hn31aa.d

Date : 04-APR-2006 19:11

Client ID: G-2889-R1-SPENT ACT

Instrument: mk.i

Sample Info: H2HN31AA,5,0,,

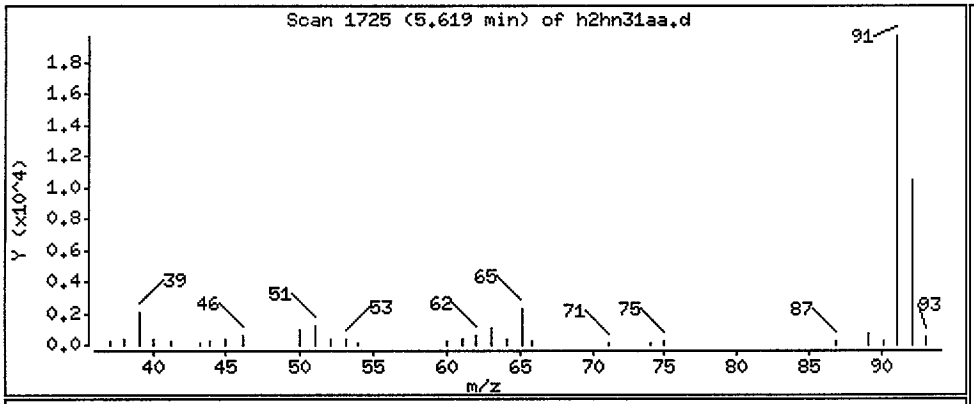
Operator: 063605

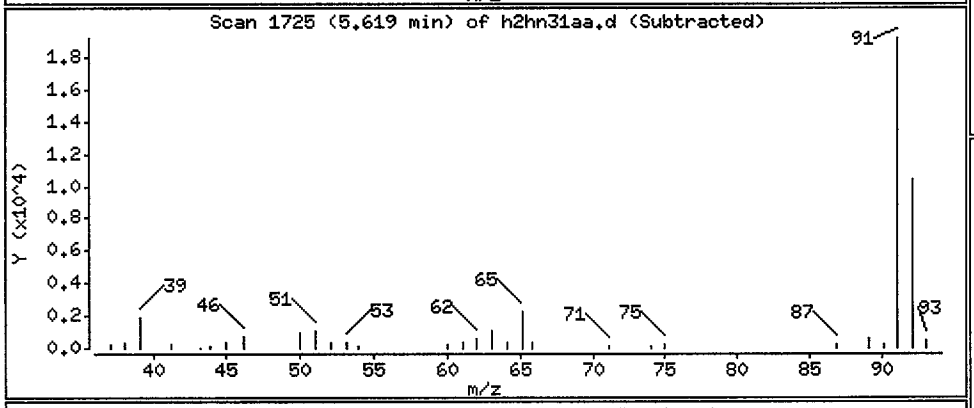
Column phase: J&W-624

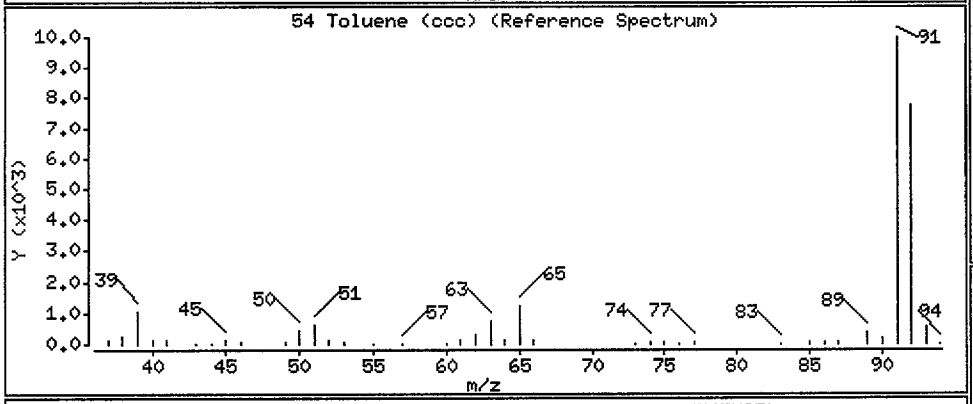
Column diameter: 0.18

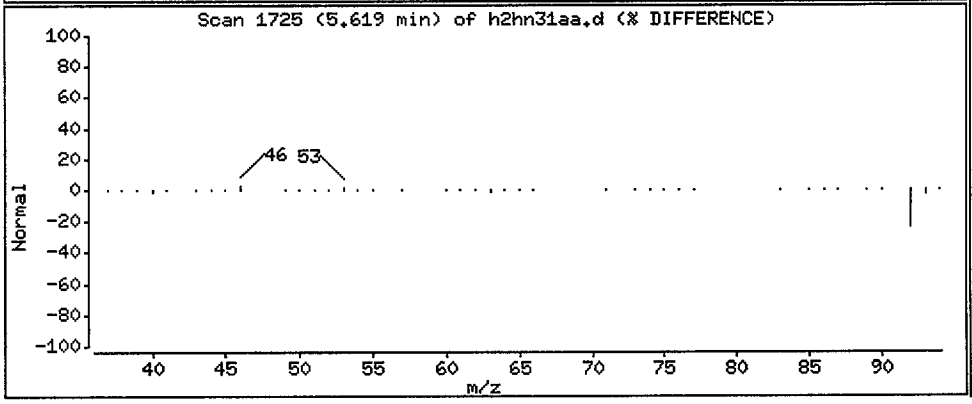
54 Toluene (ccc)

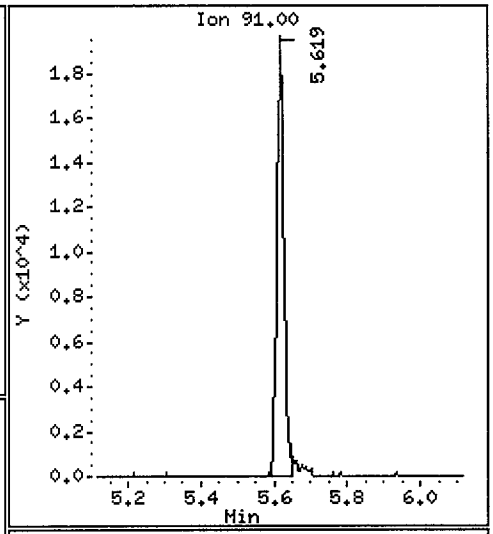
Concentration: 319.28 ug/Kg

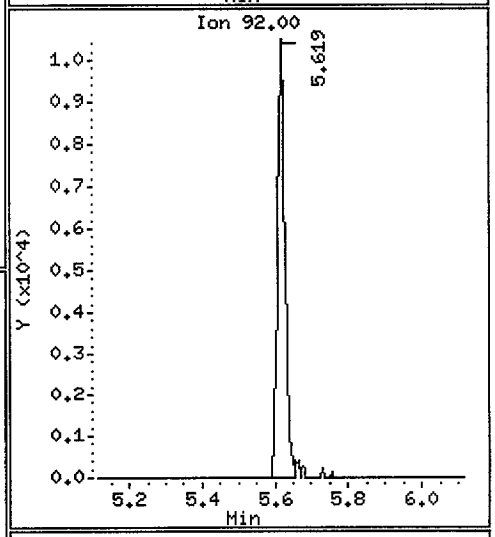


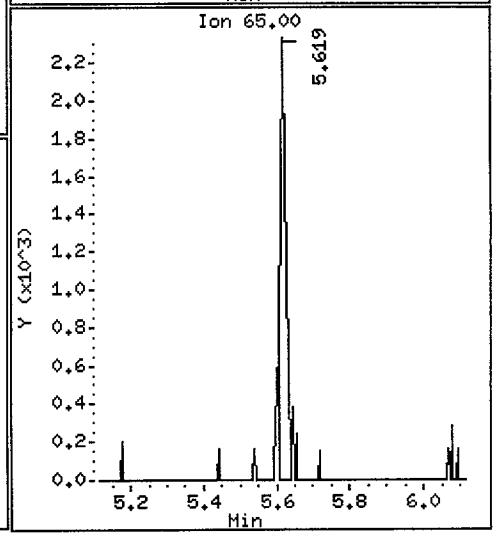












Data File: /chem/gcms/mk.i/K040406.b/h2hn31aa.d

Date : 04-APR-2006 19:11

Client ID: G-2889-R1-SPENT ACT

Instrument: mk.i

Sample Info: H2HN31AA,5,0,,

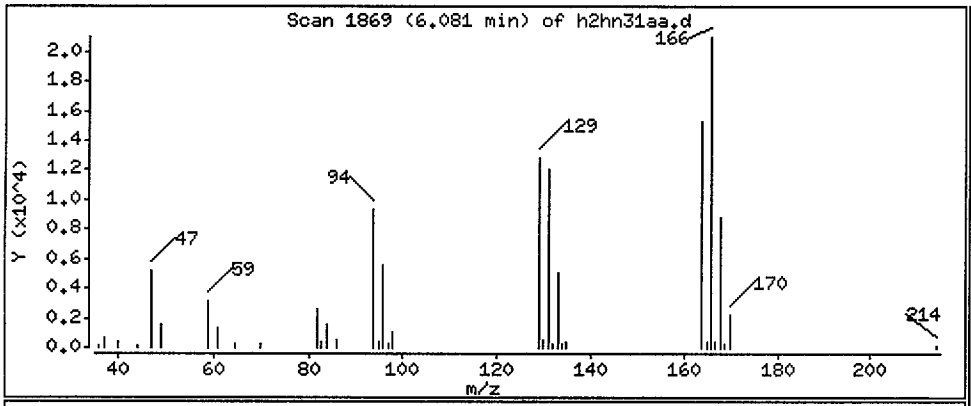
Operator: 063605

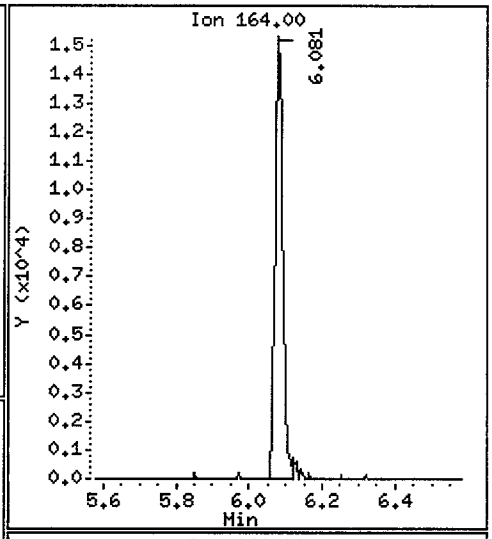
Column phase: J&W-624

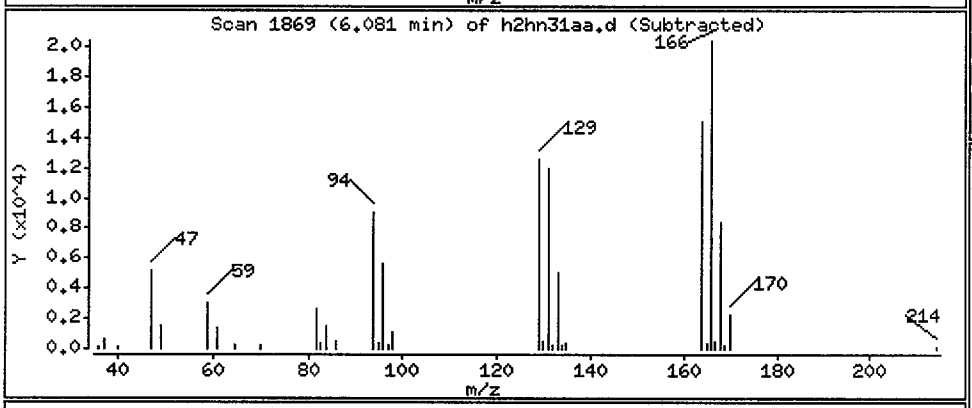
Column diameter: 0.18

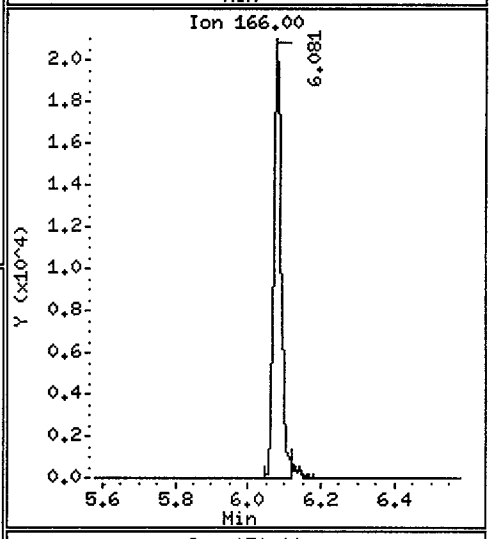
58 Tetrachloroethene

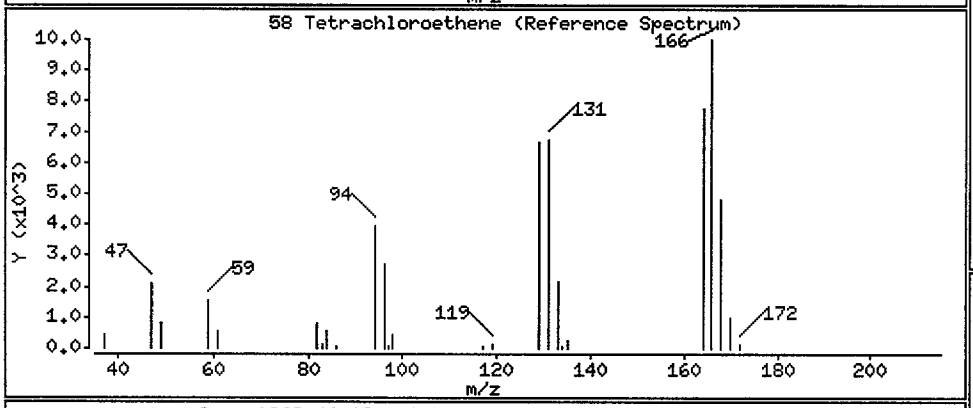
Concentration: 1619.1 ug/Kg

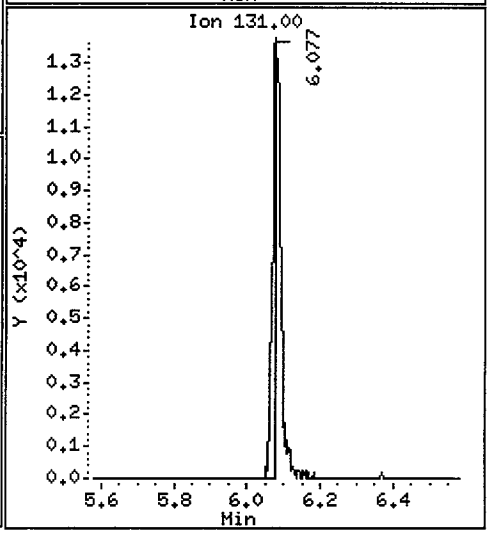


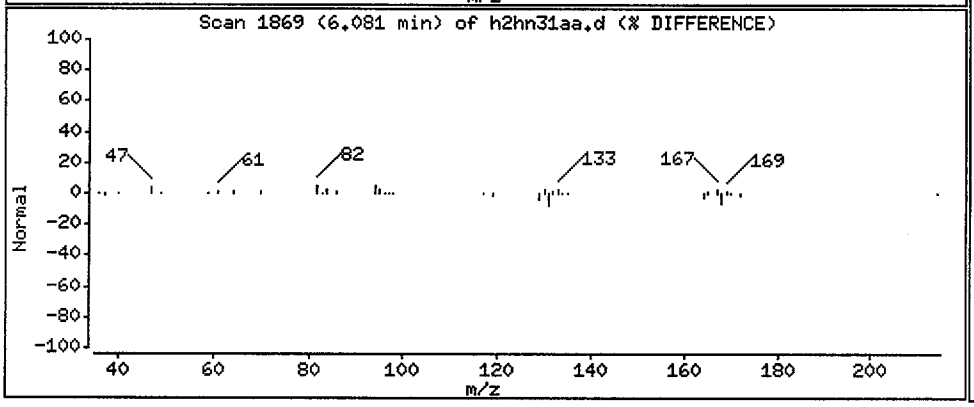












Data File: /var/chem/gcms/mk.i/K040406.b/h2hn31aa.d
Report Date: 05-Apr-2006 20:09

STL Knoxville

Volatile Organics by GC/MS

Data file : /var/chem/gcms/mk.i/K040406.b/h2hn31aa.d
Lab Smp Id: H2HN31AA Client Smp ID: G-2889-R1-SPENT ACT
Inj Date : 04-APR-2006 19:11
Operator : 063605 Inst ID: mk.i
Smp Info : H2HN31AA,5,0,,
Misc Info : K040406,MS8260NM,focus.sub
Comment : Volatile Organics by GC/MS
Method : /var/chem/gcms/mk.i/K040406.b/MS8260NM.m
Meth Date : 05-Apr-2006 20:06 tillerm Quant Type: ISTD
Cal Date : 03-FEB-2006 14:40 Cal File: fickb038.d
Als bottle: 1
Dil Factor: 5.00000
Integrator: HP RTE Compound Sublist: focus.sub
Target Version: 3.50
Processing Host: qmidhp01

Concentration Formula: Amt * DF * (Vt*5)/(Ws*Va) * CpndVariable

Vt	5000.00000	Sample Volume Purged
Ws	5.01000	Weight of sample
Va	100.00000	Volume of Methanol Aliquot

Cpnd Variable Local Compound Variable

ISTD	RT	HEIGHT	AMOUNT
* 1 Fluorobenzene	4.287	1374151	50.000

		CONCENTRATIONS			QUANT		
RT	HEIGHT	ON-COL(ug/L)	FINAL(ug/Kg)	QUAL	LIBRARY	LIB ENTRY	CPND #
Carbon dioxide Air				CAS #: 124-38-9			
0.754	189960	6.91190415	1724.5	5	NIST05.1	80	1
Propene				CAS #: 115-07-1			
0.847	148356	5.39809672	1346.8	90	NIST05.1	56	1
Isobutane				CAS #: 75-28-5			
0.982	2007299	73.0377884	18223	86	NIST05.1	230	1
Butane				CAS #: 106-97-8			
1.094	419038	15.2471599	3804.2	80	NIST05.1	226	1

MT 4/6/06

Data File: /var/chem/gcms/mk.i/K040406.b/h2hn31aa.d
Report Date: 05-Apr-2006 20:09

		CONCENTRATIONS			QUANT		
RT	HEIGHT	ON-COL(ug/L)	FINAL(ug/Kg)	QUAL	LIBRARY	LIB ENTRY	CPND #
====	======	==========	==========	====	=======	=========	======
Propane, 2-methoxy-2-methyl-				CAS #: 1634-04-4			
2.605	189375	6.89061828	1719.2	53	NIST05.l	2098	1
Cyclopentane, methyl-				CAS #: 96-37-7			
3.311	166035	6.04136663	1507.3	94	NIST05.l	1468	1
Cyclohexane				CAS #: 110-82-7			
3.834	174101	6.33485694	1580.6	94	NIST05.l	1433	1

Data File: /var/chem/gcms/mk.i/K040406.b/h2hn31aa.d

Date : 04-APR-2006 19:11

Client ID: G-2889-R1-SPENT ACT

Instrument: mk.i

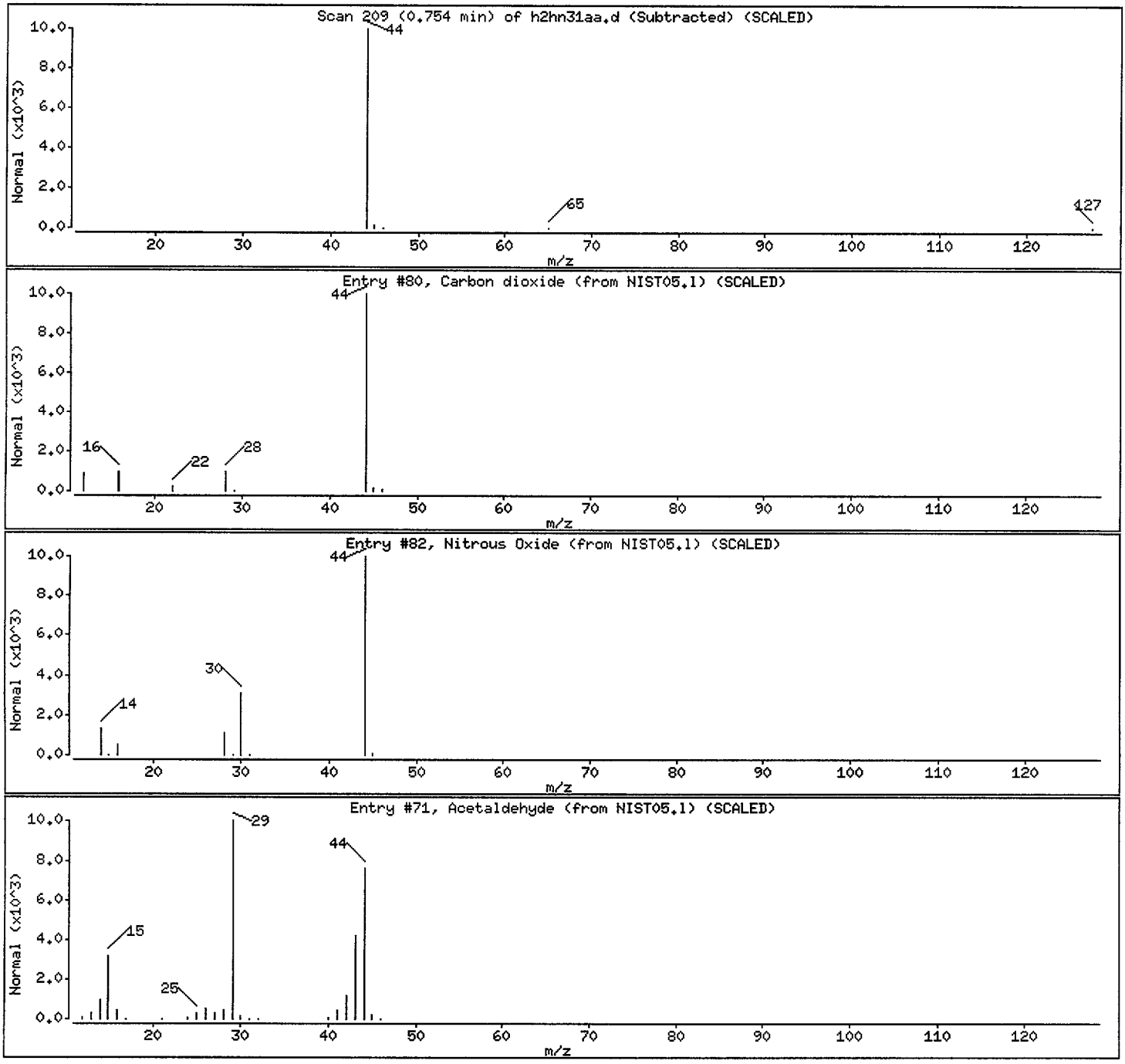
Sample Info: H2HN31AA,5,0,,

Operator: 063605

Column phase: J&W-624

Column diameter: 0.18

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Carbon dioxide	124-38-9	NIST05.l	80	5	CO2	44
Nitrous Oxide	10024-97-2	NIST05.l	82	3	N2O	44
Acetaldehyde	75-07-0	NIST05.l	71	2	C2H4O	44



Data File: /var/chem/gcms/mk.i/K040406.b/h2hn31aa.d

Date : 04-APR-2006 19:11

Client ID: G-2889-R1-SPENT ACT

Instrument: mk.i

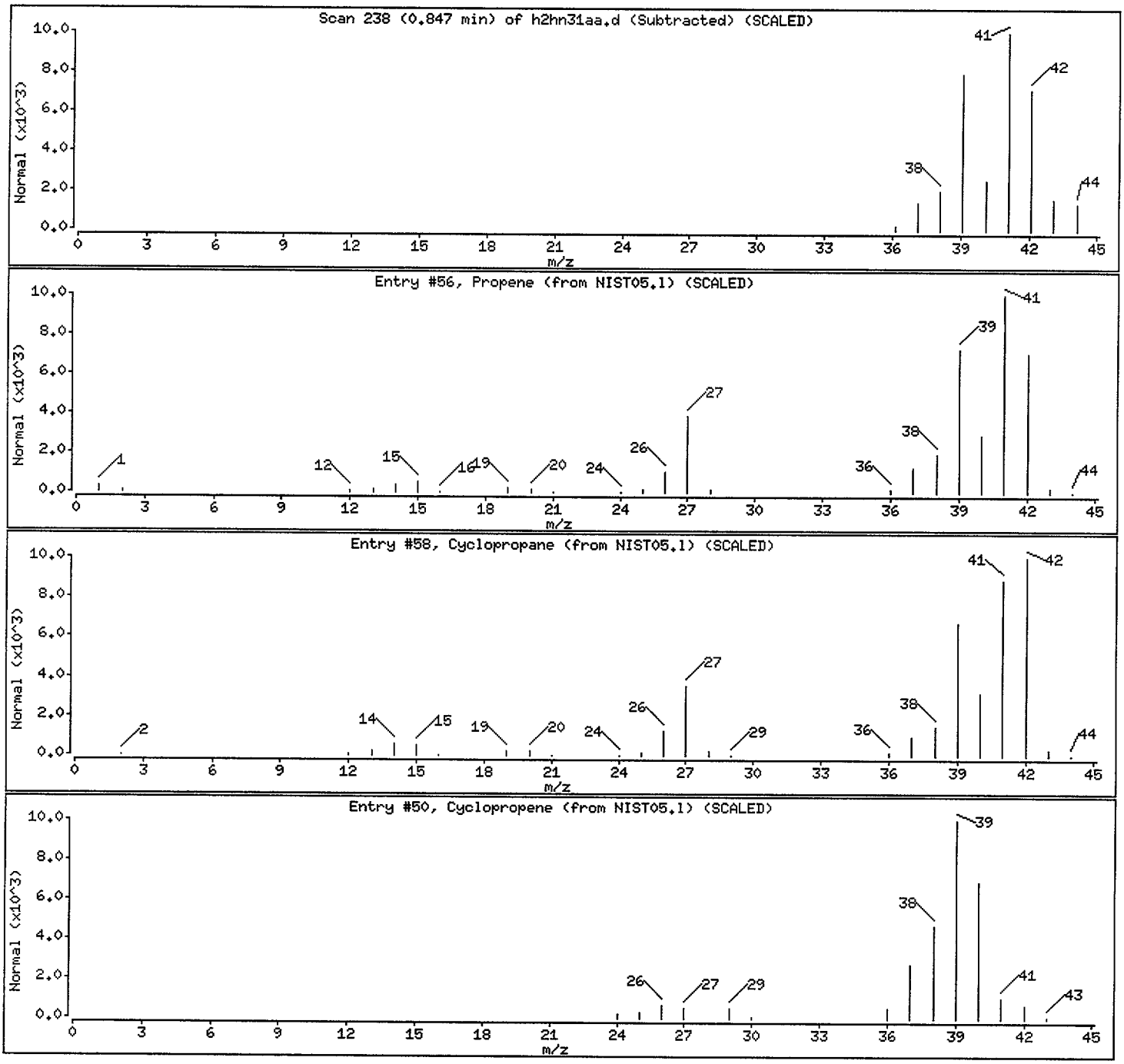
Sample Info: H2HN31AA,5,0,,

Operator: 063605

Column phase: J&W-624

Column diameter: 0.18

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Propene	115-07-1	NIST05.l	56	90	C3H6	42
Cyclopropane	75-19-4	NIST05.l	58	64	C3H6	42
Cyclopropene	2781-85-3	NIST05.l	50	9	C3H4	40



Data File: /var/chem/gcms/mk.i/K040406.b/h2hn31aa.d

Date : 04-APR-2006 19:11

Client ID: G-2889-R1-SPENT ACT

Instrument: mk.i

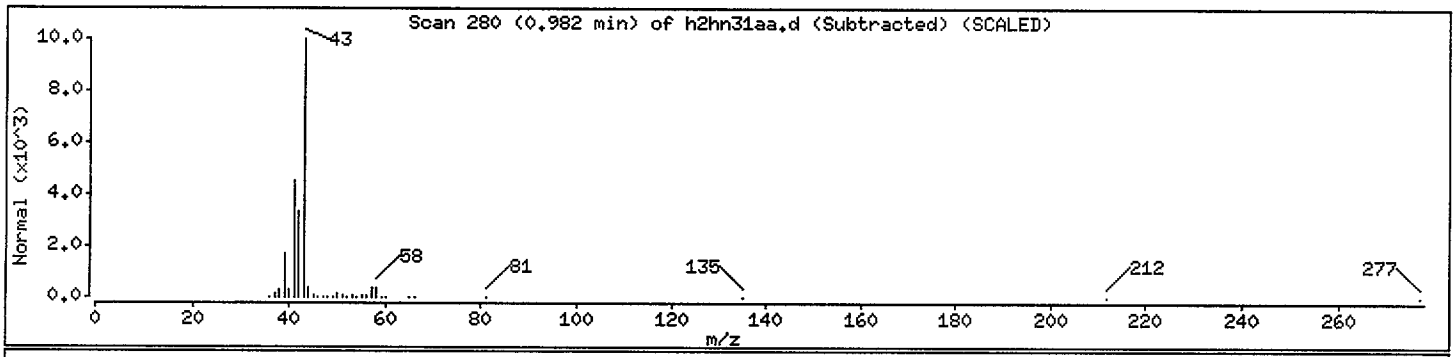
Sample Info: H2HN31AA,5,0,,

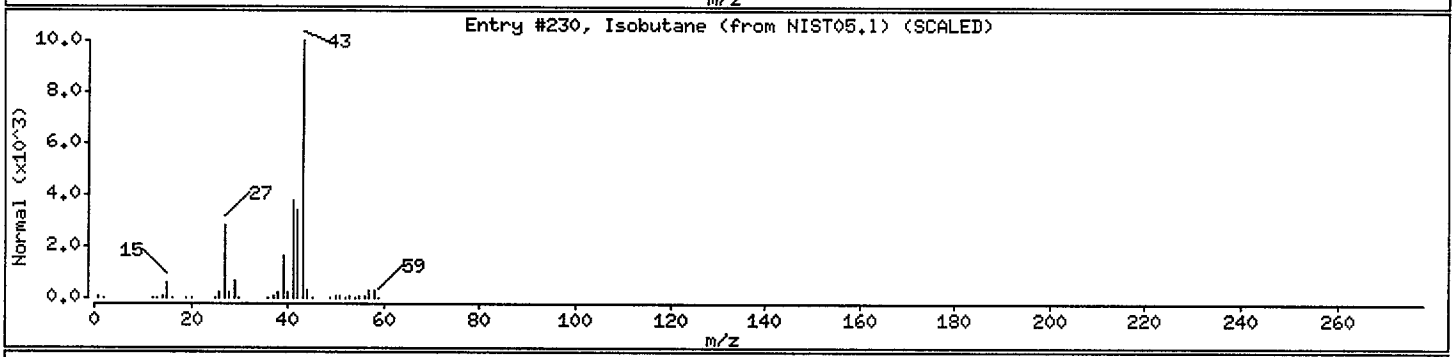
Operator: 063605

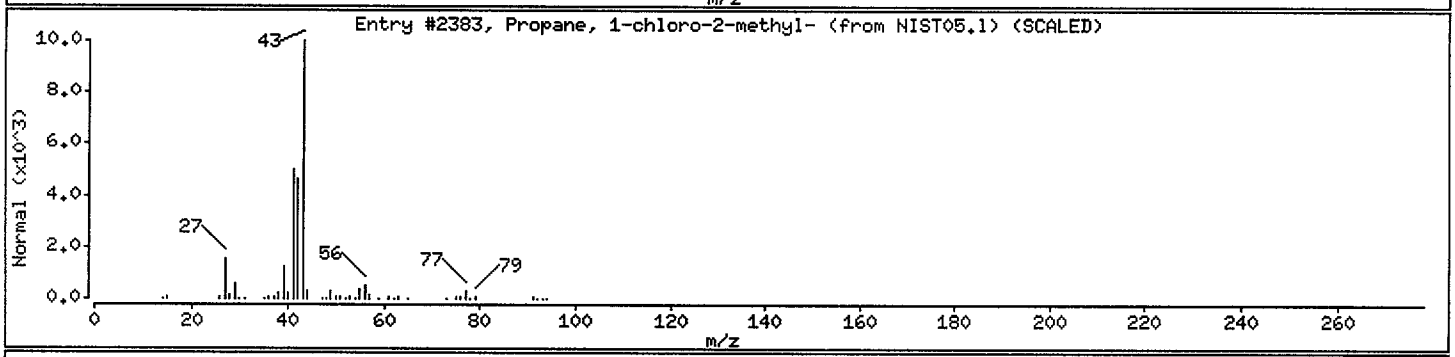
Column phase: J&W-624

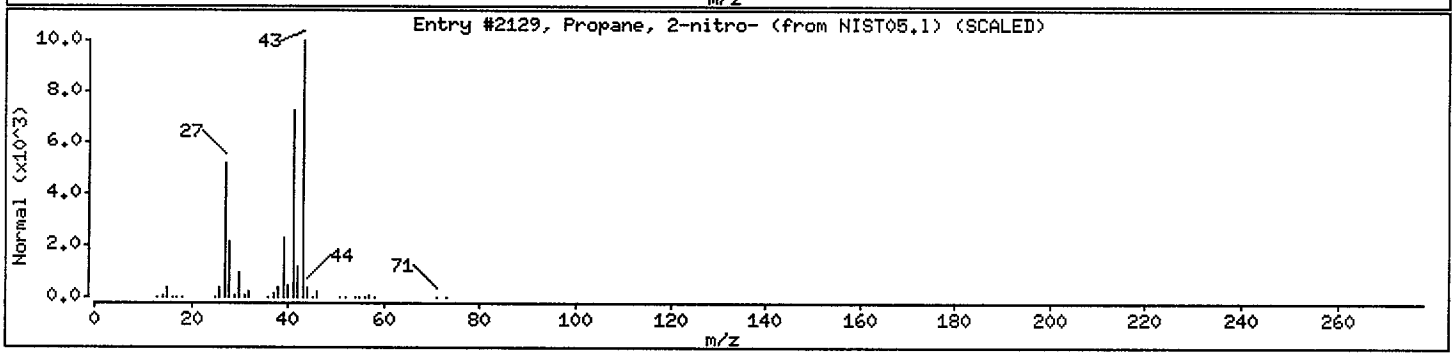
Column diameter: 0.18

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Isobutane	75-28-5	NIST05.l	230	86	C4H10	58
Propane, 1-chloro-2-methyl-	513-36-0	NIST05.l	2383	4	C4H9Cl	92
Propane, 2-nitro-	79-46-9	NIST05.l	2129	4	C3H7NO2	89









Data File: /var/chem/gcms/mk.i/K040406.b/h2hn31aa.d

Date : 04-APR-2006 19:11

Client ID: G-2889-R1-SPENT ACT

Instrument: mk.i

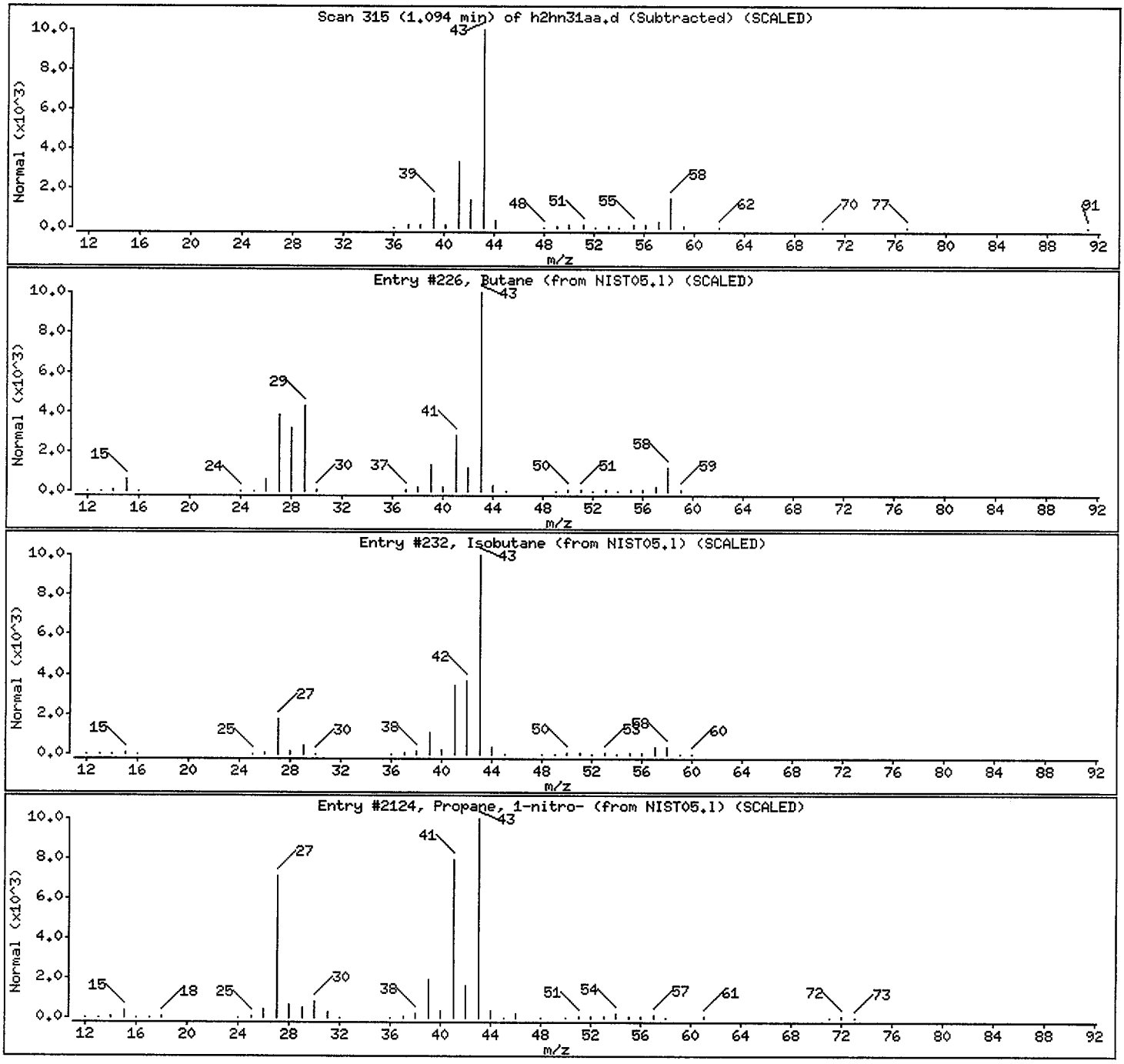
Sample Info: H2HN31AA,5,0,,

Operator: 063605

Column phase: J&W-624

Column diameter: 0.18

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Butane	106-97-8	NIST05.l	226	80	C4H10	58
Isobutane	75-28-5	NIST05.l	232	9	C4H10	58
Propane, 1-nitro-	108-03-2	NIST05.l	2124	9	C3H7NO2	89



Data File: /var/chem/gcms/mk.i/K040406.b/h2hn31aa.d

Date : 04-APR-2006 19:11

Client ID: G-2889-R1-SPENT ACT

Instrument: mk.i

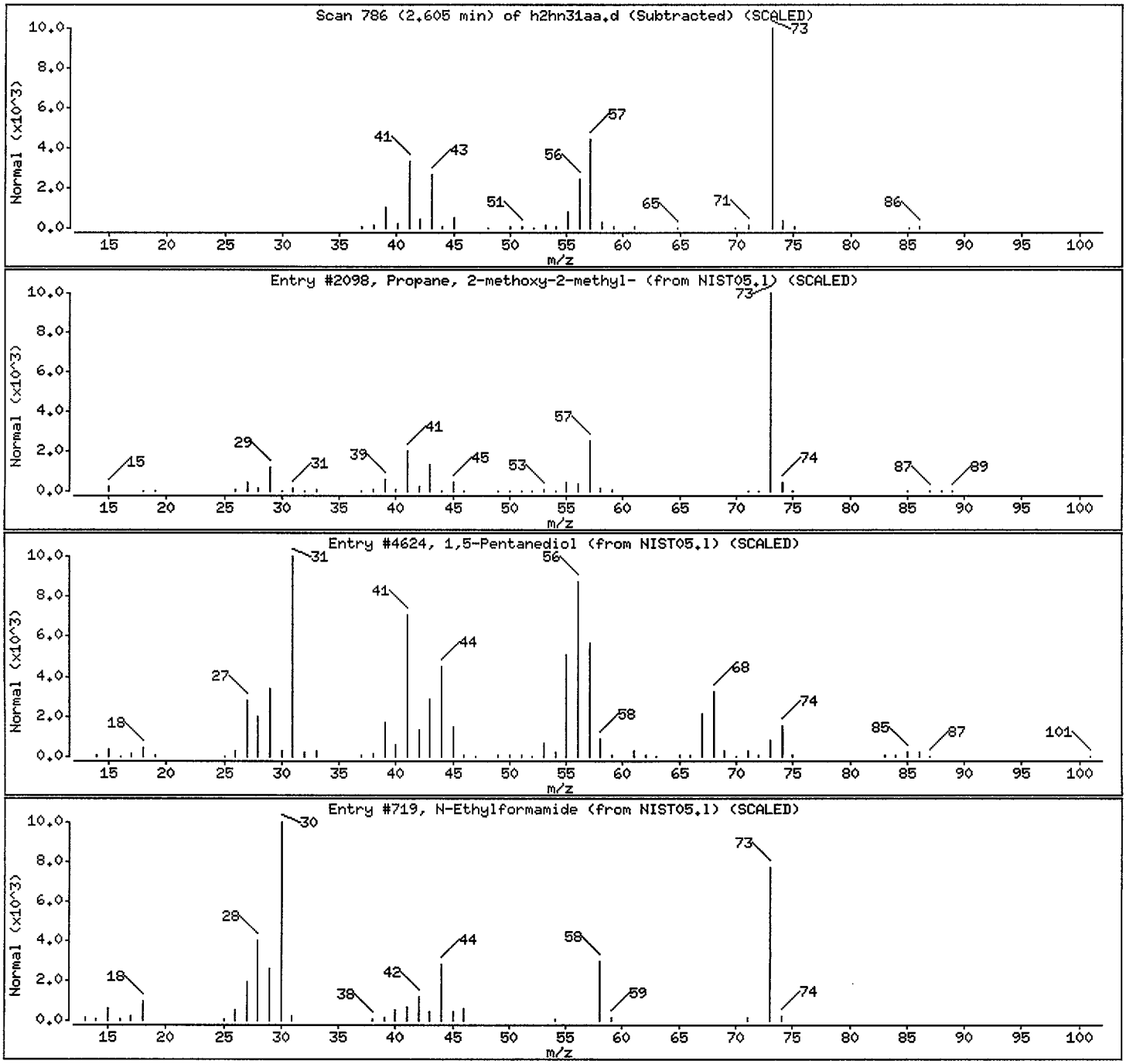
Sample Info: H2HN31AA,5,0,,

Operator: 063605

Column phase: J&W-624

Column diameter: 0.18

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Propane, 2-methoxy-2-methyl-	1634-04-4	NIST05.l	2098	53	C5H12O	88
1,5-Pentanediol	111-29-5	NIST05.l	4624	9	C5H12O2	104
N-Ethylformamide	627-45-2	NIST05.l	719	7	C3H7NO	73



Data File: /var/chem/gcms/mk.i/K040406.b/h2hn31aa.d

Date : 04-APR-2006 19:11

Client ID: G-2889-R1-SPENT ACT

Instrument: mk.i

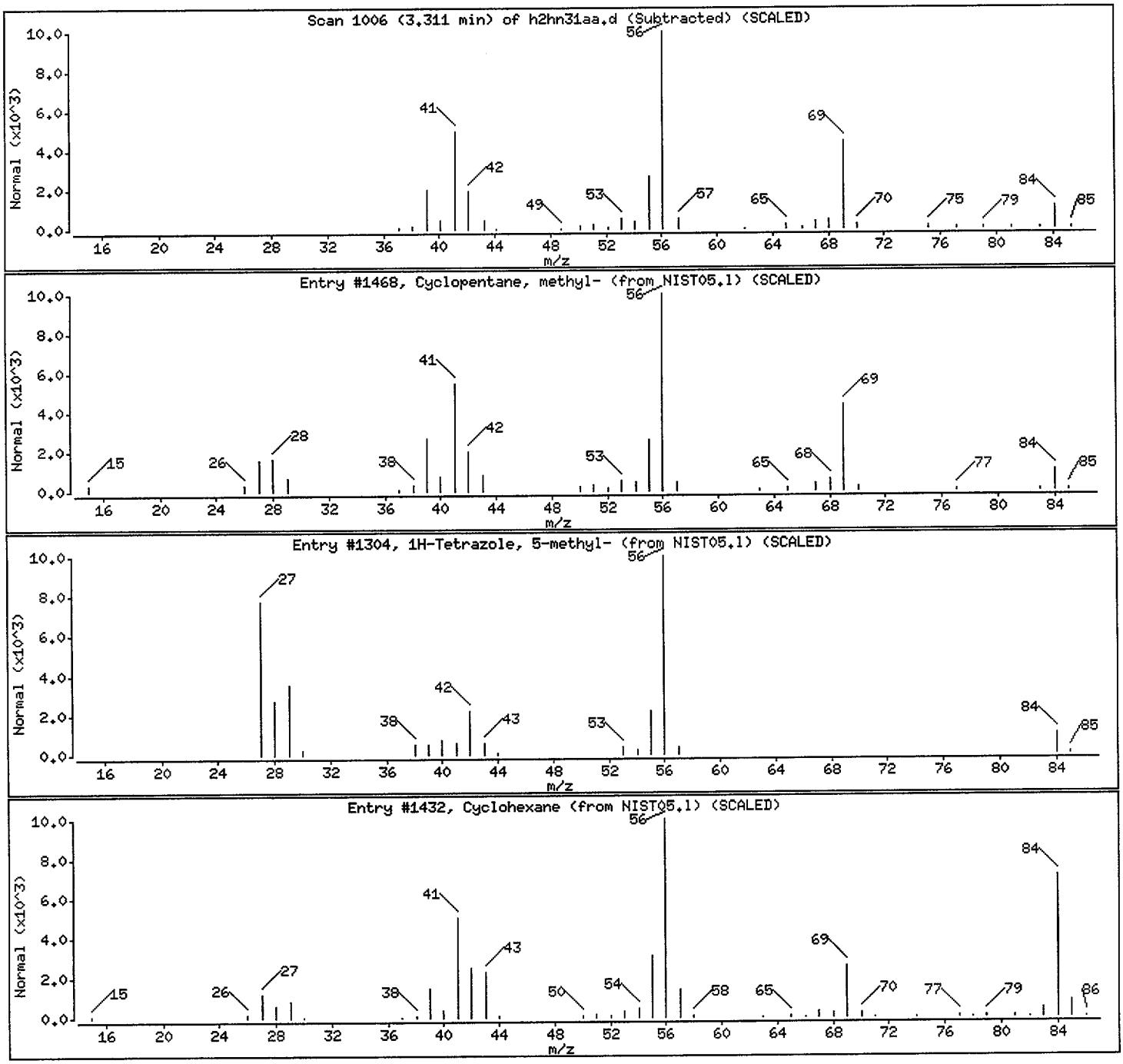
Sample Info: H2HN31AA,5,0,,

Operator: 063605

Column phase: J&W-624

Column diameter: 0.18

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Cyclopentane, methyl-	96-37-7	NIST05.l	1468	94	C6H12	84
1H-Tetrazole, 5-methyl-	4076-36-2	NIST05.l	1304	80	C2H4N4	84
Cyclohexane	110-82-7	NIST05.l	1432	78	C6H12	84



Data File: /var/chem/gcms/mk.i/K040406.b/h2hn31aa.d

Date : 04-APR-2006 19:11

Client ID: G-2889-R1-SPENT ACT

Instrument: mk.i

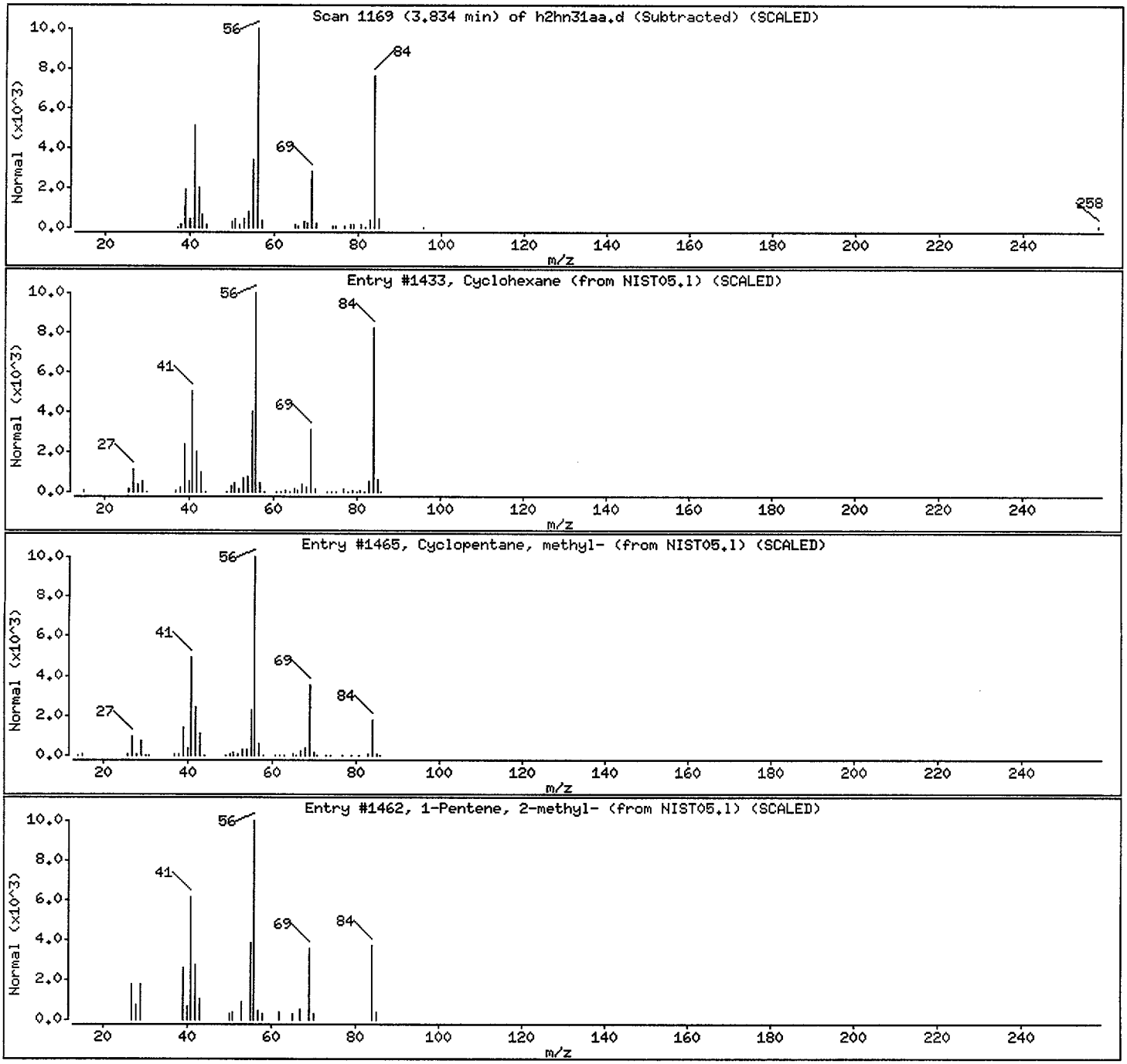
Sample Info: H2HN31AA,5,0,,

Operator: 063605

Column phase: J&W-624

Column diameter: 0.18

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Cyclohexane	110-82-7	NIST05.l	1433	94	C6H12	84
Cyclopentane, methyl-	96-37-7	NIST05.l	1465	64	C6H12	84
1-Pentene, 2-methyl-	763-29-1	NIST05.l	1462	56	C6H12	84



STL Knoxville - ACS

Client Sample ID: G-2893-R1-SCRUBBER BLOWDOWN

GC/MS Volatiles

Lot-Sample #...: H6D030205-002 **Work Order #...:** H2HPA1AA **Matrix.....:** WATER
Date Sampled...: 03/28/06 **Date Received..:** 04/02/06
Prep Date.....: 04/05/06 **Analysis Date..:** 04/05/06
Prep Batch #...: 6095253
Dilution Factor: 1 **Method.....:** SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	ND	10	ug/L	1.4
Acrylonitrile	ND	20	ug/L	2.7
Benzene	ND	1.0	ug/L	0.10
Bromobenzene	ND	1.0	ug/L	0.11
Bromochloromethane	ND	1.0	ug/L	0.24
Bromodichloromethane	ND	1.0	ug/L	0.10
Bromoform	**0.99 J**	**1.0**	**ug/L**	**0.14**
Bromomethane	ND	2.0	ug/L	0.38
2-Butanone	ND	5.0	ug/L	0.75
n-Butylbenzene	ND	1.0	ug/L	0.10
sec-Butylbenzene	ND	1.0	ug/L	0.10
tert-Butylbenzene	ND	1.0	ug/L	0.24
Carbon disulfide	ND	1.0	ug/L	0.10
Carbon tetrachloride	ND	1.0	ug/L	0.12
Chlorobenzene	ND	1.0	ug/L	0.10
Chlorodibromomethane	**0.92 J**	**1.0**	**ug/L**	**0.20**
Chloroethane	ND	2.0	ug/L	0.24
Chloroform	ND	1.0	ug/L	0.10
Chloromethane	ND	2.0	ug/L	0.12
2-Chlorotoluene	ND	1.0	ug/L	0.24
4-Chlorotoluene	ND	1.0	ug/L	0.21
1,2-Dibromo-3-chloro-propane	ND	2.0	ug/L	0.45
1,2-Dibromoethane	ND	1.0	ug/L	0.24
Dibromomethane	ND	1.0	ug/L	0.21
1,2-Dichlorobenzene	ND	1.0	ug/L	0.10
1,3-Dichlorobenzene	ND	1.0	ug/L	0.10
1,4-Dichlorobenzene	ND	1.0	ug/L	0.12
Dichlorodifluoromethane	ND	2.0	ug/L	0.15
1,1-Dichloroethane	ND	1.0	ug/L	0.10
1,2-Dichloroethane	ND	1.0	ug/L	0.10
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.12
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.10
1,1-Dichloroethene	ND	1.0	ug/L	0.10
1,2-Dichloropropane	ND	1.0	ug/L	0.10
1,3-Dichloropropane	ND	1.0	ug/L	0.17
2,2-Dichloropropane	ND	1.0	ug/L	0.11
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.10
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.11

(Continued on next page)

STL Knoxville - ACS

Client Sample ID: G-2893-R1-SCRUBBER BLOWDOWN

GC/MS Volatiles

Lot-Sample #...: H6D030205-002 **Work Order #...:** H2HPA1AA **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1-Dichloropropene	ND	1.0	ug/L	0.10
Ethylbenzene	ND	1.0	ug/L	0.10
Hexachlorobutadiene	ND	2.0	ug/L	0.12
2-Hexanone	ND	5.0	ug/L	0.76
Iodomethane	**0.55 J,B**	**2.0**	**ug/L**	**0.12**
Isopropylbenzene	ND	1.0	ug/L	0.10
p-Isopropyltoluene	ND	1.0	ug/L	0.10
Methylene chloride	ND	2.0	ug/L	0.23
4-Methyl-2-pentanone	ND	5.0	ug/L	0.40
Naphthalene	ND	1.0	ug/L	0.17
n-Propylbenzene	ND	1.0	ug/L	0.10
Styrene	ND	1.0	ug/L	0.10
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	0.12
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.15
Tetrachloroethene	ND	1.0	ug/L	0.10
Tetrahydrofuran	ND	4.0	ug/L	1.2
Toluene	ND	1.0	ug/L	0.10
1,2,3-Trichlorobenzene	ND	1.0	ug/L	0.23
1,2,4-Trichloro-benzene	ND	1.0	ug/L	0.15
1,1,1-Trichloroethane	ND	1.0	ug/L	0.10
1,1,2-Trichloroethane	ND	1.0	ug/L	0.25
Trichloroethene	ND	1.0	ug/L	0.10
Trichlorofluoromethane	ND	2.0	ug/L	0.12
1,2,3-Trichloropropane	ND	1.0	ug/L	0.36
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	1.0	ug/L	0.13
1,2,4-Trimethylbenzene	ND	1.0	ug/L	0.11
1,3,5-Trimethylbenzene	ND	1.0	ug/L	0.10
Vinyl acetate	ND	2.0	ug/L	0.24
Vinyl chloride	ND	1.0	ug/L	0.24
m-Xylene & p-Xylene	ND	1.0	ug/L	0.20
o-Xylene	ND	1.0	ug/L	0.14
Xylenes (total)	ND	1.0	ug/L	0.30

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	104	(79 - 120)
1,2-Dichloroethane-d4	103	(71 - 127)
Toluene-d8	100	(80 - 120)
Bromofluorobenzene	96	(69 - 126)

NOTE(S):

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

STL Knoxville - ACS

G-2893-R1-SCRUBBER BLOWDOWN

GC/MS Volatiles

Lot-Sample #: H6D030205-002 **Work Order #:** H2HPA1AA **Matrix:** WATER

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT	RETENTION TIME	UNITS
None				ug/L

Data File: /chem/gcms/mz.i/Z040506.b/h2hpa1aa.d
Report Date: 05-Apr-2006 18:30

STL Knoxville

Volatile Organics by GC/MS

Data file : /chem/gcms/mz.i/Z040506.b/h2hpa1aa.d
Lab Smp Id: H2HPA1AA Client Smp ID: G-2893-R1-SCRUBBER
Inj Date : 05-APR-2006 18:12
Operator : 063605 Inst ID: mz.i
Smp Info : H2HPA1AA,1,0,,
Misc Info : Z040506,8260B_LM,focus.sub
Comment : Volatile Organics by GC/MS
Method : /var/chem/gcms/mz.i/Z040506.b/8260B_LM.m
Meth Date : 05-Apr-2006 15:47 tillerm Quant Type: ISTD
Cal Date : 24-MAR-2006 13:51 Cal File: icvzc248.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: focus.sub
Target Version: 3.50
Processing Host: qmidhp01

Concentration Formula: Amt * DF * Uf*Vt/(Vo*1000) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Unit Correction factor
Vt	25000.00000	Sample Volume Purged
Vo	25.00000	Sample Volume Used

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
* 1	Fluorobenzene	96	5.667	5.667	(1.000)	952000	10.0000	
* 2	Chlorobenzene-d5	119	8.934	8.933	(1.000)	178920	10.0000	
* 3	1,4 Dichlorobenzene-d4	152	11.489	11.488	(1.000)	212488	10.0000	
$ 5	1,2-Dichloroethane-d4	65	5.235	5.229	(0.924)	135518	10.2733	10.273
$ 4	Dibromofluoromethane	113	4.821	4.821	(0.851)	159387	10.4486	10.448
$ 6	Toluene-d8	98	7.455	7.455	(0.835)	783085	9.96108	9.9611
$ 7	4-Bromofluorobenzene	95	10.126	10.126	(0.881)	206263	9.62520	9.6252
22	Acetone	43	2.138	2.126	(0.377)	2409	~~3.66684~~	~~3.6668~~
23	*Iodomethane	142	2.181	2.181	(0.385)	582	0.54570	0.54570
39	*THF	42	4.335	4.529	(0.765)	1556	~~0.68903~~	~~0.68903~~
45	1,2-Dichloroethane	62	5.655	5.326	(0.998)	7234	~~0.36392~~	~~0.36392~~
53	4-Methyl-2-pentanone	43	7.449	7.376	(1.315)	6488	~~0.78048~~	~~0.78048~~
55	trans-1,3-Dichloropropene	75	7.461	7.784	(0.835)	200	~~0.63757~~	~~0.63757~~
61	Chlorodibromomethane	129	8.344	8.349	(0.934)	1364	0.91588	0.91588

WTS 4/7/06

Data File: /chem/gcms/mz.i/Z040506.b/h2hpa1aa.d
Report Date: 05-Apr-2006 18:30

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
69 Bromoform (spcc)	173	9.785	9.779	(1.095)	532	0.98770	0.98770

Data File: /chem/gcms/mz.i/Z040506.b/h2hpa1aa.d
Report Date: 05-Apr-2006 18:30

STL Knoxville

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: mz.i
Lab File ID: h2hpa1aa.d
Lab Smp Id: H2HPA1AA
Analysis Type: VOA
Quant Type: ISTD
Operator: 063605
Method File: /var/chem/gcms/mz.i/Z040506.b/8260B_LM.m
Misc Info: Z040506,8260B_LM,focus.sub

Calibration Date: 05-APR-2006
Calibration Time: 14:42
Client Smp ID: G-2893-R1-SCRUBBER
Level: LOW
Sample Type: WATER

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	1078707	539354	2157414	952000	-11.75
2 Chlorobenzene-d5	188899	94450	377798	178920	-5.28
3 1,4 Dichlorobenze	220143	110072	440286	212488	-3.48

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	5.67	5.17	6.17	5.67	0.01
2 Chlorobenzene-d5	8.93	8.43	9.43	8.93	0.00
3 1,4 Dichlorobenze	11.49	10.99	11.99	11.49	0.00

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

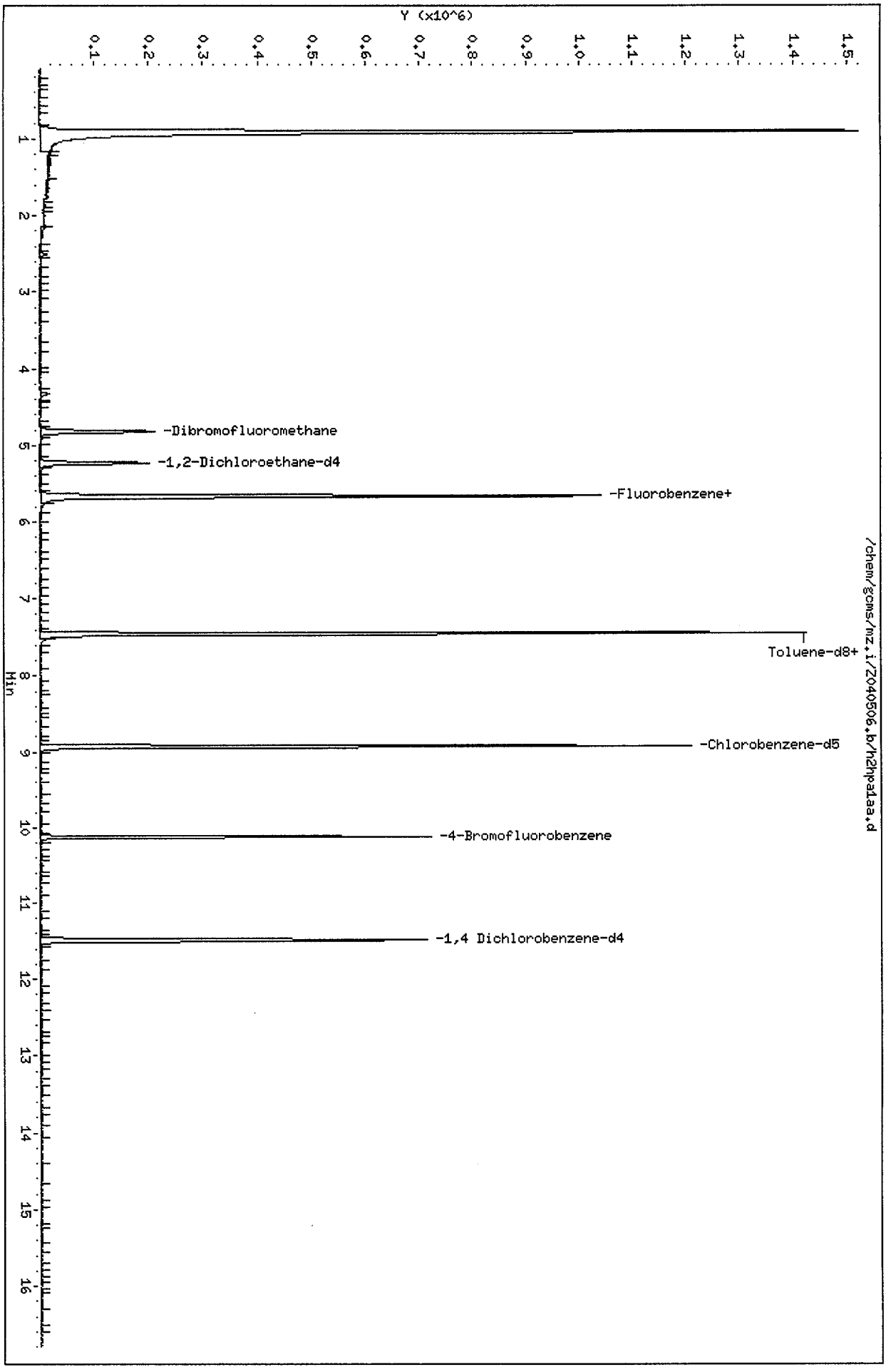
Data File: /chem/gcms/mz.i/Z040506.b/h2hpa1aa.d
Report Date: 05-Apr-2006 18:30

STL Knoxville

RECOVERY REPORT

Client Name: STL Knoxville - ACS
Client SDG: H6D030205
Sample Matrix: LIQUID
Fraction: VOA
Lab Smp Id: H2HPA1AA
Client Smp ID: G-2893-R1-SCRUBBER
Level: LOW
Operator: 063605
Data Type: MS DATA
SampleType: SAMPLE
SpikeList File: allcmpds.spk
Quant Type: ISTD
Sublist File: focus.sub
Method File: /var/chem/gcms/mz.i/Z040506.b/8260B_LM.m
Misc Info: Z040506,8260B_LM,focus.sub

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
$ 5 1,2-Dichloroethane	10.000	10.273	102.73	71-127
$ 4 Dibromofluorometha	10.000	10.448	104.49	79-120
$ 6 Toluene-d8	10.000	9.9611	99.61	80-120
$ 7 4-Bromofluorobenze	10.000	9.6252	96.25	69-126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Date : 05-APR-2006 18:12
Client ID: G-2893-R1-SCRUBBER
Sample Info: H2HPA1AA,1.0,,
Purge Volume: 25.0
Column phase: J+W 624
Instrument: mz.i
Operator: 063005
Column diameter: 0.18
Y (x10^6)
-Dibromofluoromethane
-1,2-Dichloroethane-d4
-Fluorobenzene+
Toluene-d8+
-Chlorobenzene-d5
-4-Bromofluorobenzene
-1,4 Dichlorobenzene-d4
/chem/gcms/mz.i/Z040506.b/h2hpa1aa.d
Min

Data File: /chem/gcms/mz.i/Z040506.b/h2hpa1aa.d

Date : 05-APR-2006 18:12

Client ID: G-2893-R1-SCRUBBER

Instrument: mz.i

Sample Info: H2HPA1AA,1,0,,

Purge Volume: 25.0

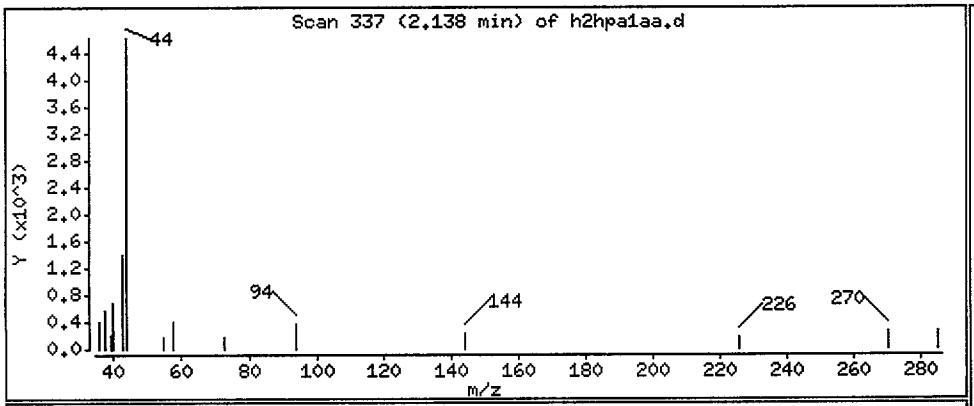
Operator: 063605

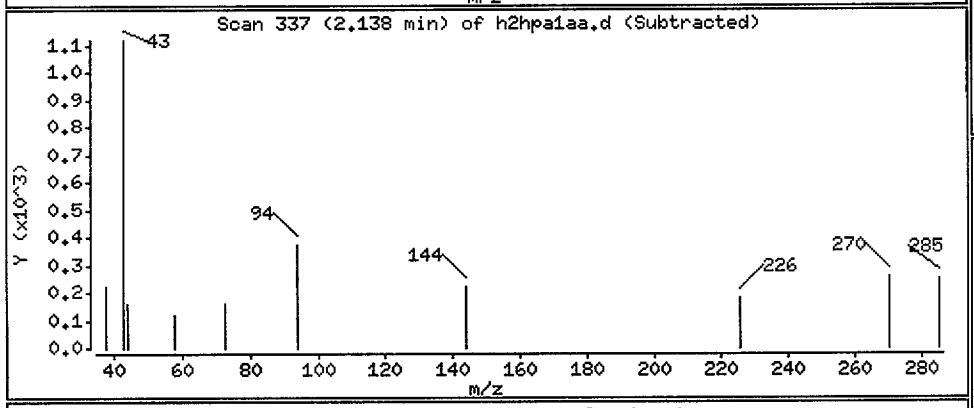
Column phase: J+W 624

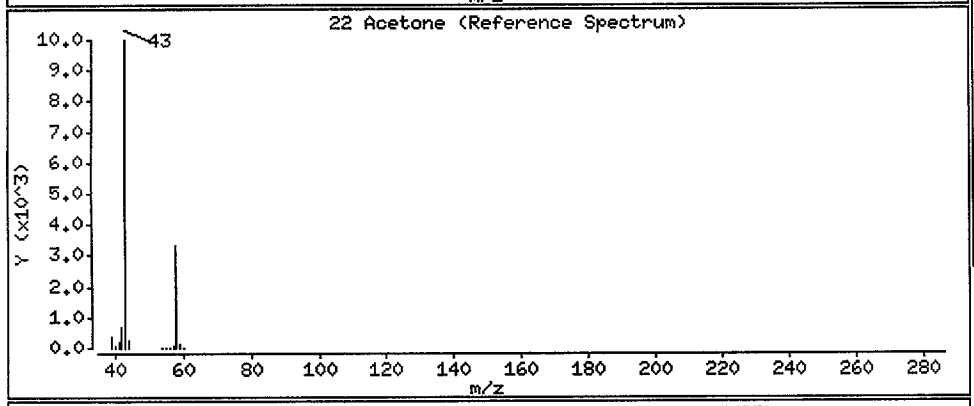
Column diameter: 0.18

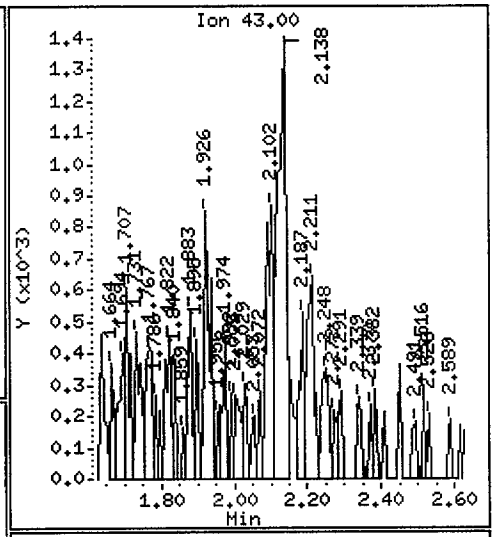
22 Acetone

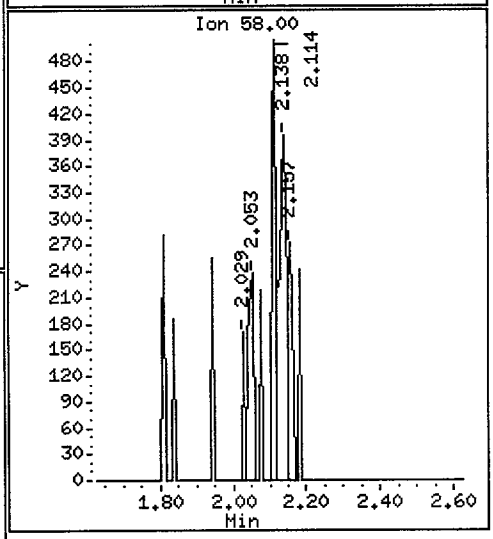
Concentration: 3.6668 ug/L











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Date : 05-APR-2006 18:12

Client ID: G-2893-R1-SCRUBBER

Instrument: mz.i

Sample Info: H2HPA1AA,1,0,,

Purge Volume: 25.0

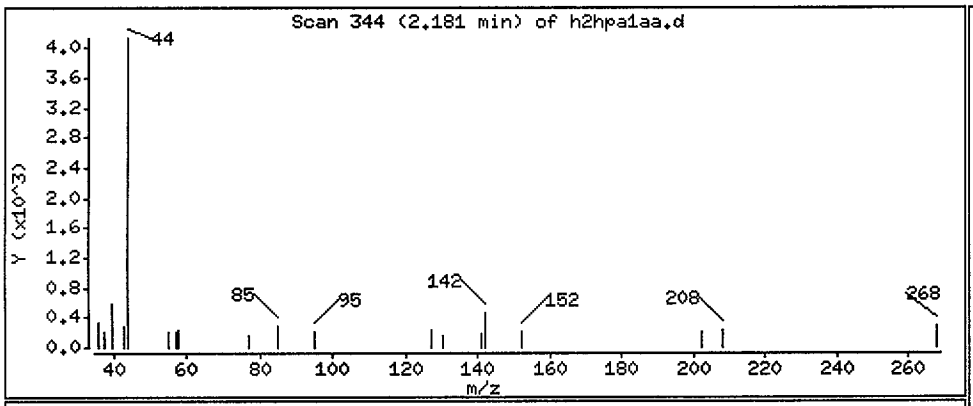
Operator: 063605

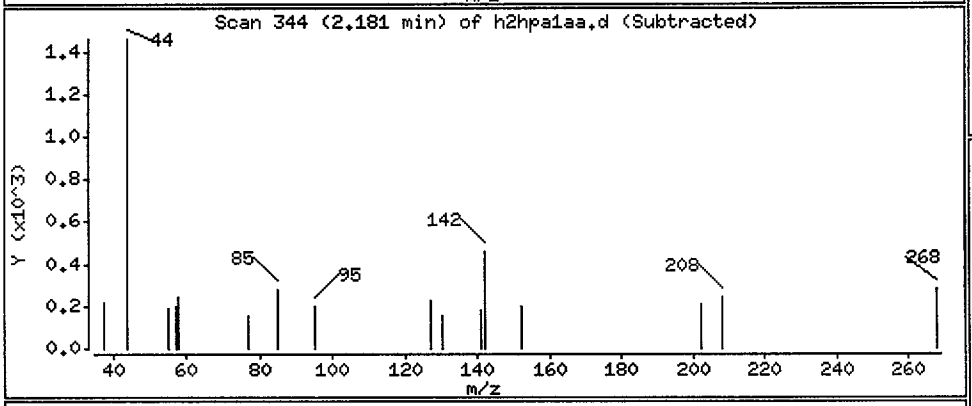
Column phase: J+W 624

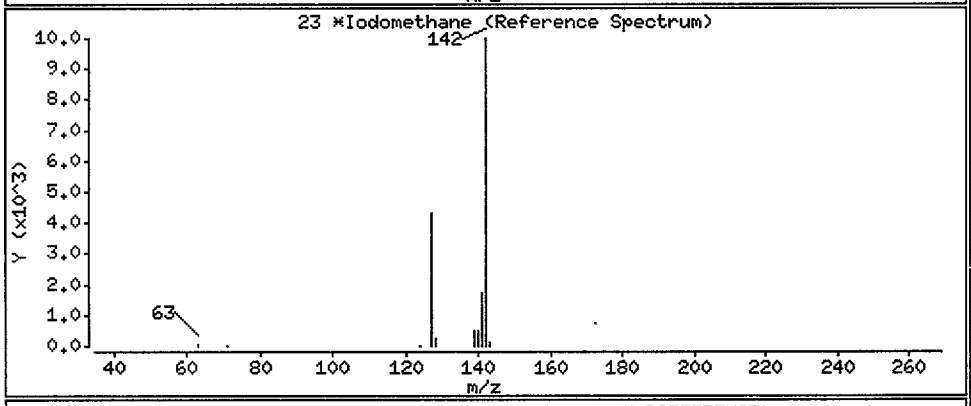
Column diameter: 0.18

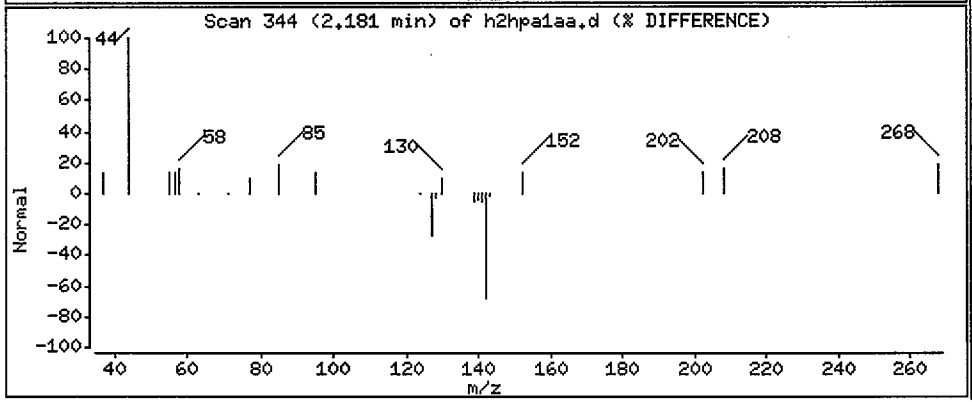
23 *Iodomethane

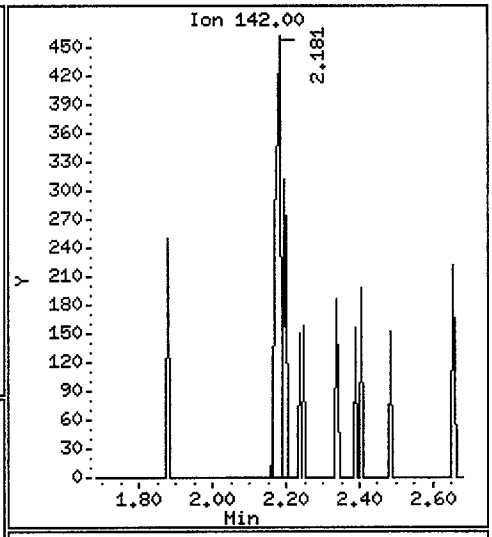
Concentration: 0.54570 ug/L

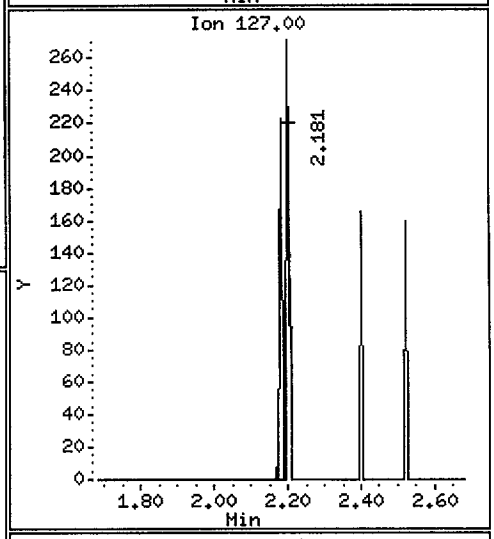


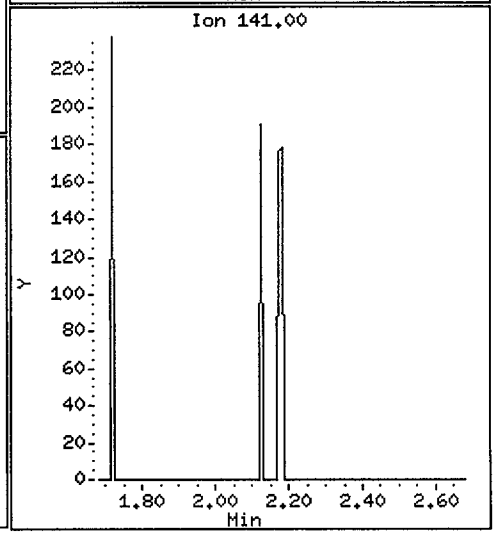












Data File: /chem/gcms/mz.i/Z040506.b/h2hpa1aa.d

Date : 05-APR-2006 18:12

Client ID: G-2893-R1-SCRUBBER

Instrument: mz.i

Sample Info: H2HPA1AA,1,0,,

Purge Volume: 25.0

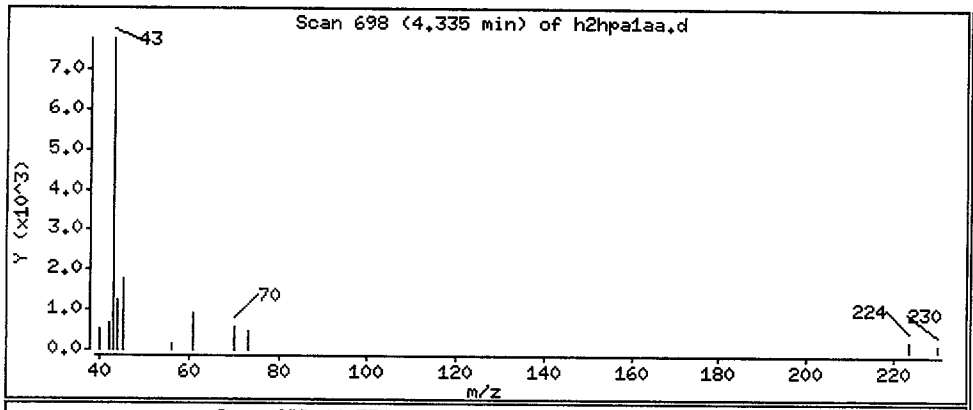
Operator: 063605

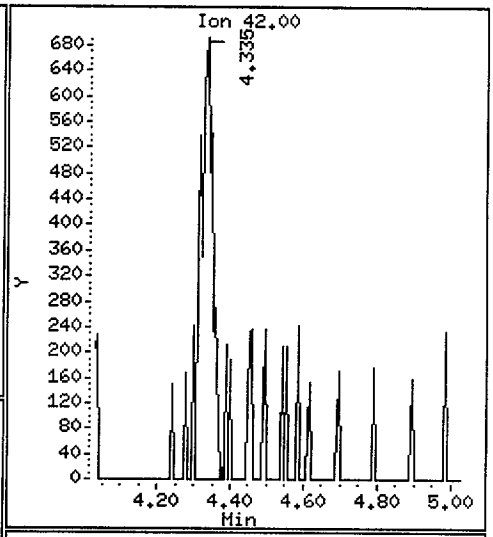
Column phase: J+W 624

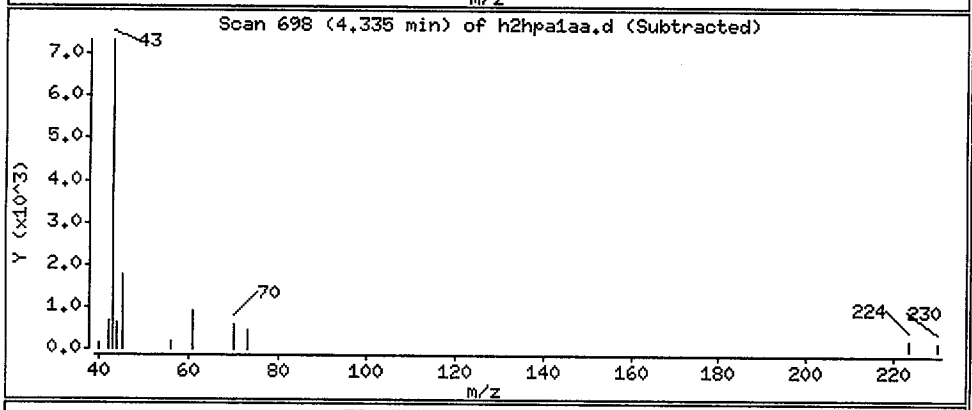
Column diameter: 0.18

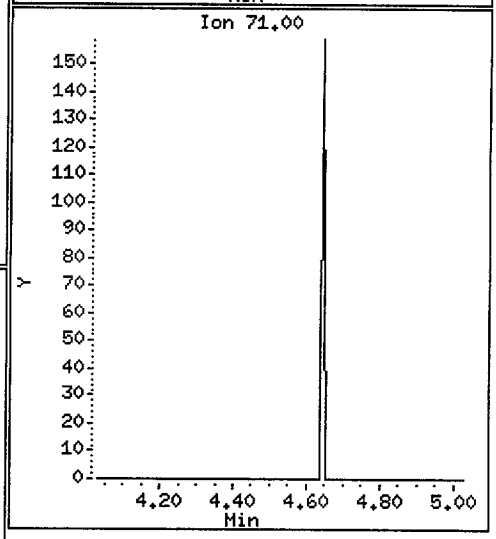
39 *THF

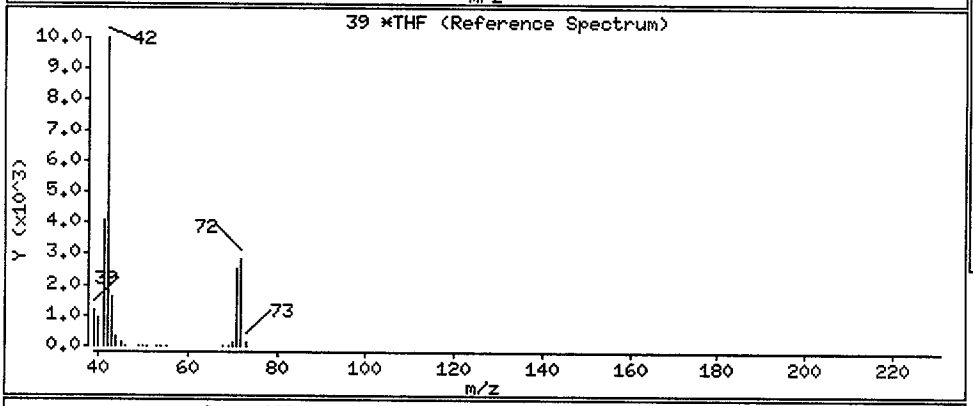
Concentration: 0.68903 ug/L

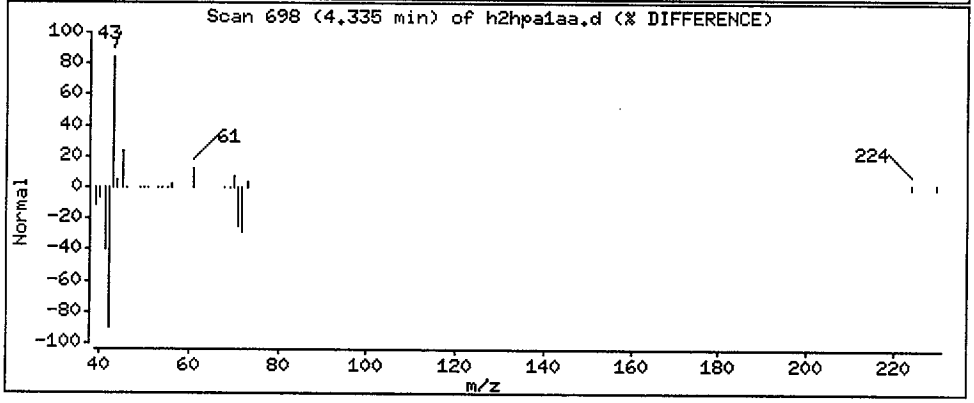












Data File: /chem/gcms/mz.i/Z040506.b/h2hpa1aa.d

Date : 05-APR-2006 18:12

Client ID: G-2893-R1-SCRUBBER

Instrument: mz.i

Sample Info: H2HPA1AA,1,0,,

Purge Volume: 25.0

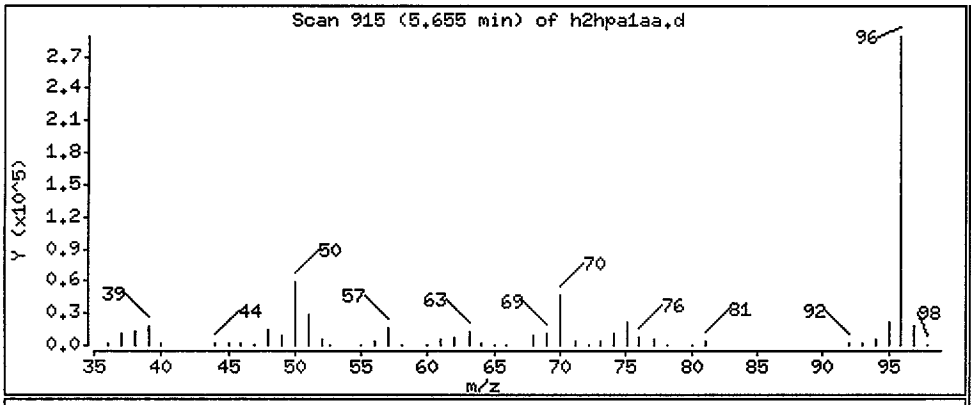
Operator: 063605

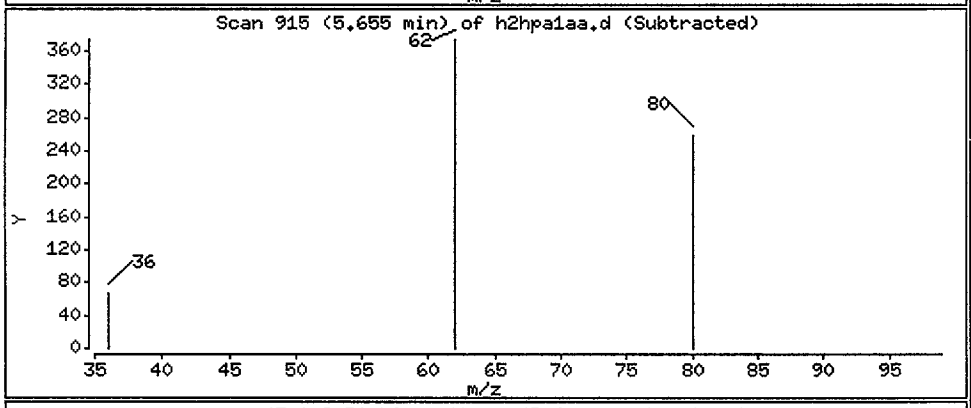
Column phase: J+W 624

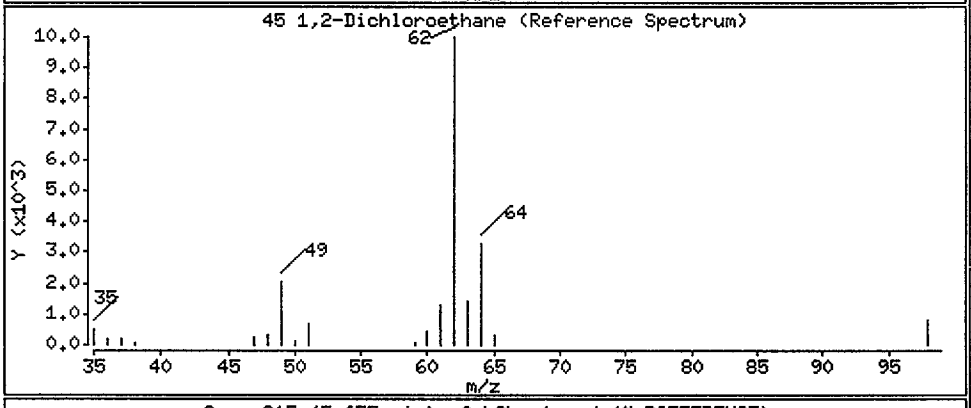
Column diameter: 0.18

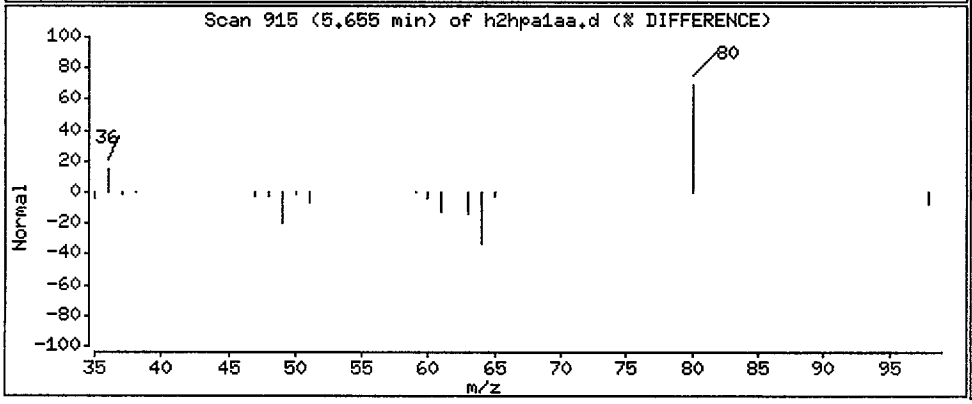
45 1,2-Dichloroethane

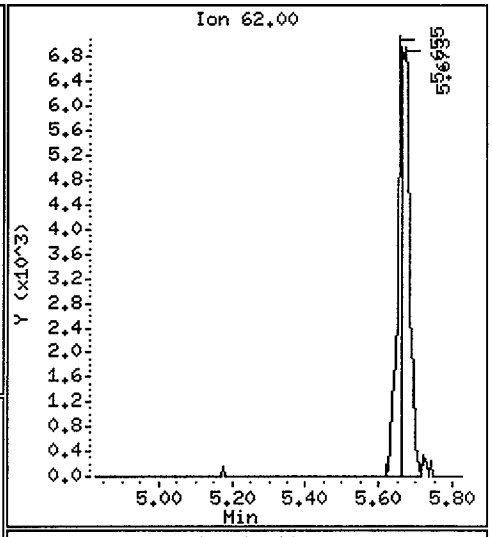
Concentration: 0.36392 ug/L

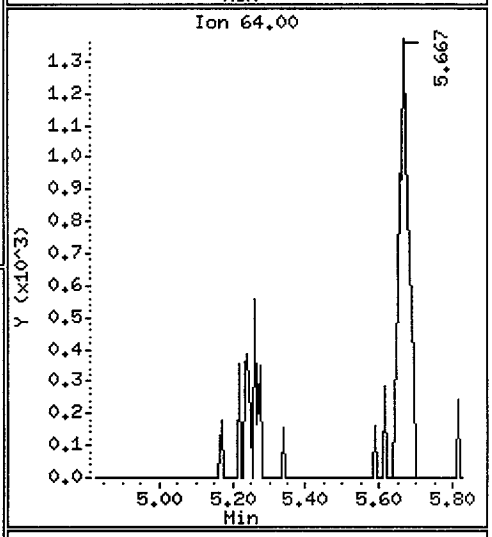


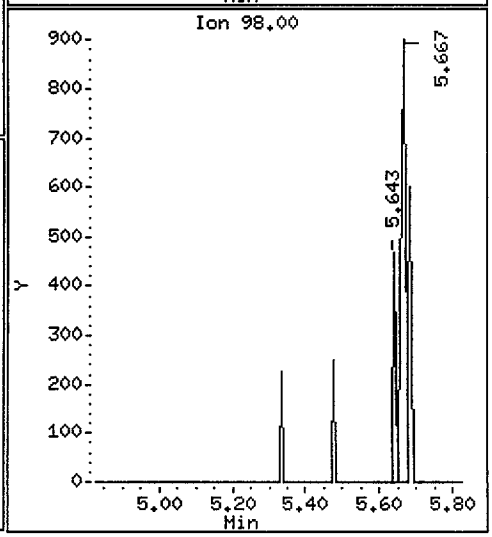












Data File: /chem/gcms/mz.i/Z040506.b/h2hpa1aa.d

Date : 05-APR-2006 18:12

Client ID: G-2893-R1-SCRUBBER

Instrument: mz.i

Sample Info: H2HPA1AA,1,0,,

Purge Volume: 25.0

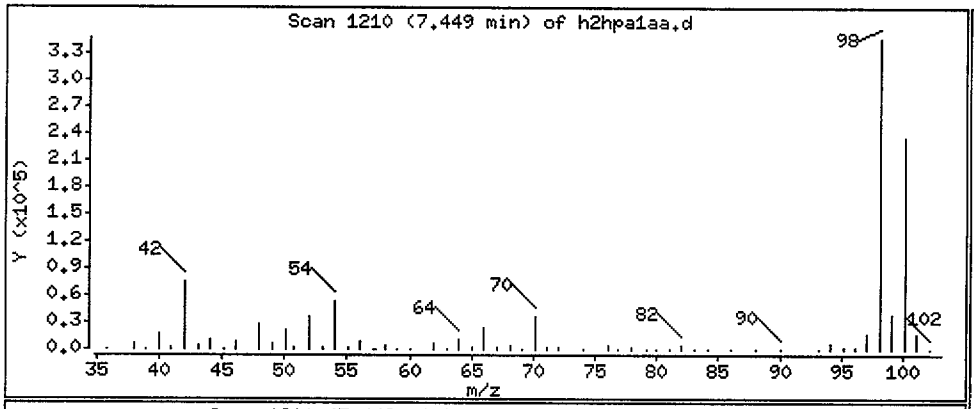
Operator: 063605

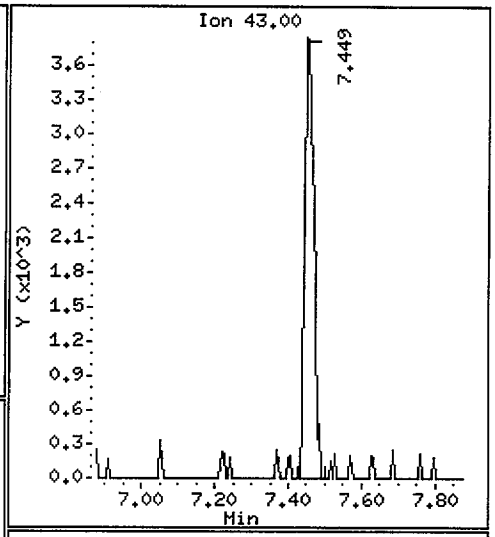
Column phase: J+W 624

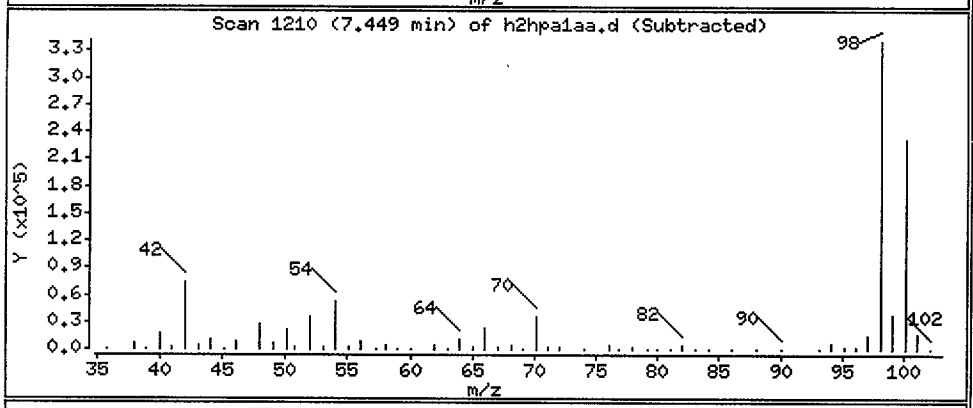
Column diameter: 0.18

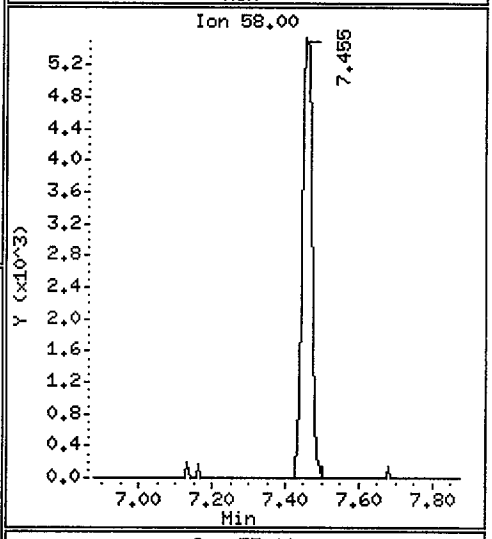
53 4-Methyl-2-pentanone

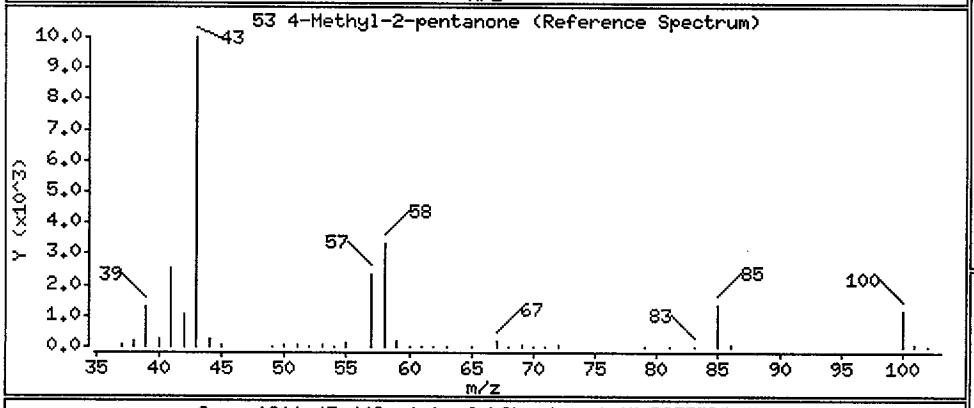
Concentration: 0.78048 ug/L

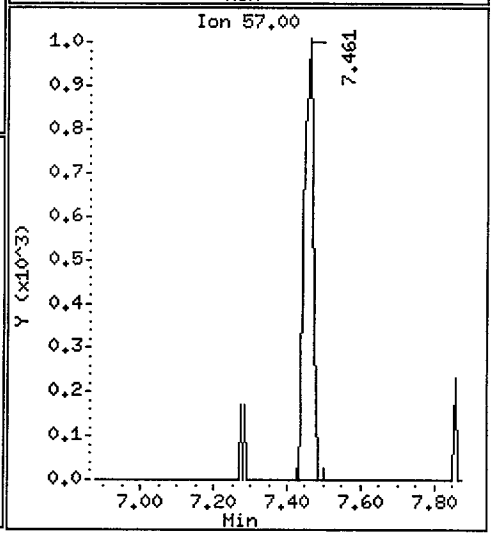


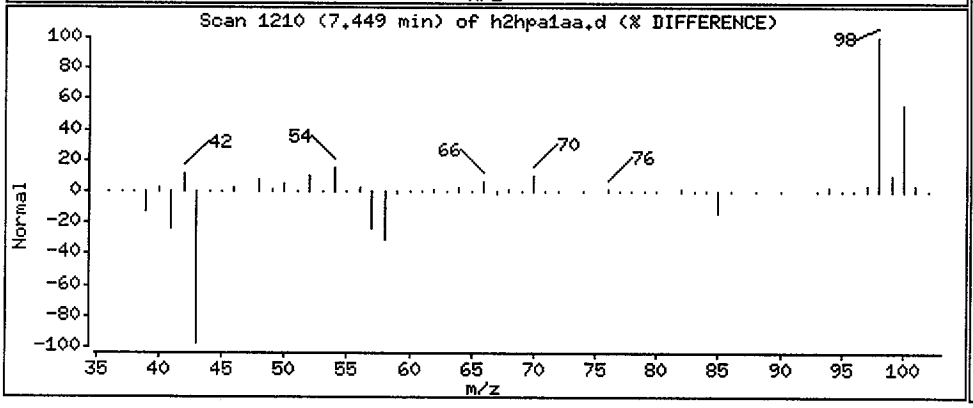












Data File: /chem/gcms/mz.i/Z040506.b/h2hpa1aa.d

Date : 05-APR-2006 18:12

Client ID: G-2893-R1-SCRUBBER

Instrument: mz.i

Sample Info: H2HPA1AA,1,0,,

Purge Volume: 25.0

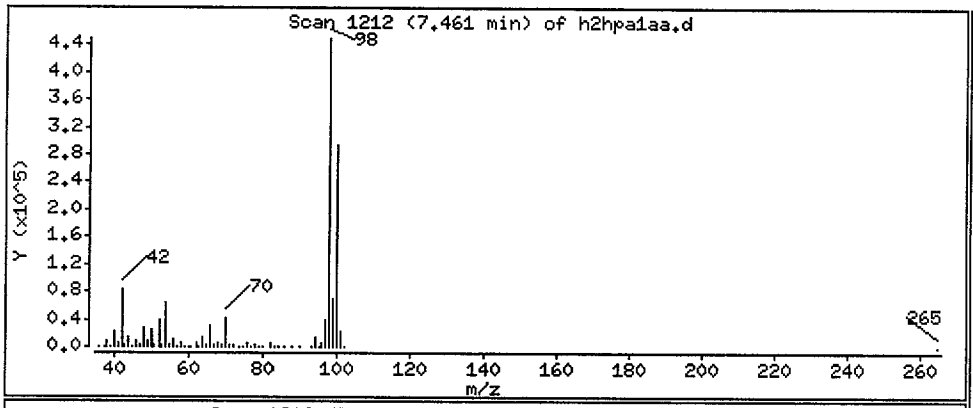
Operator: 063605

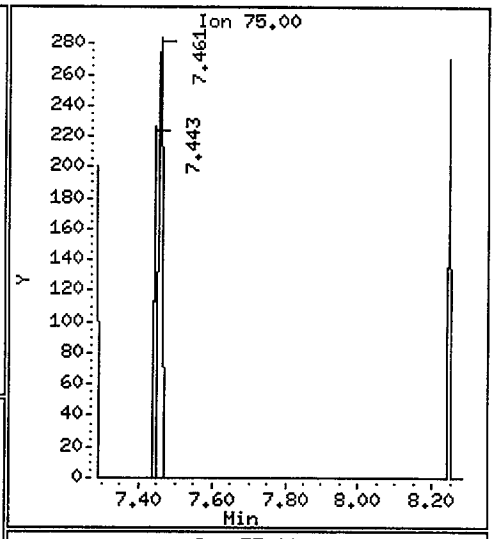
Column phase: J+W 624

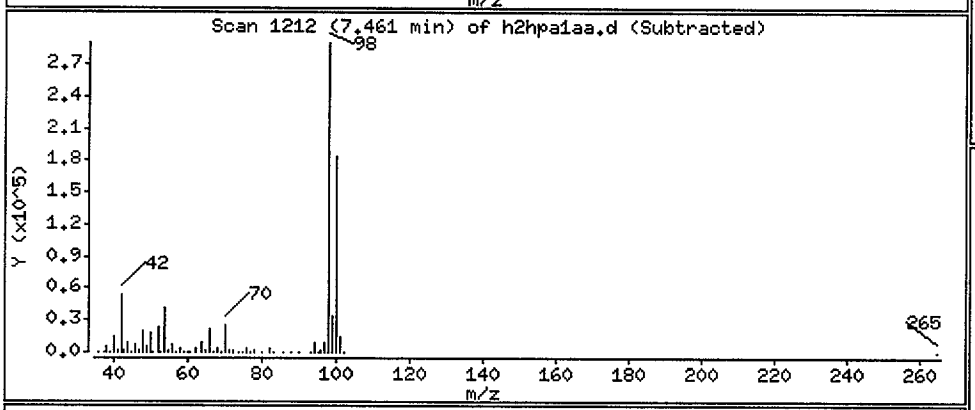
Column diameter: 0.18

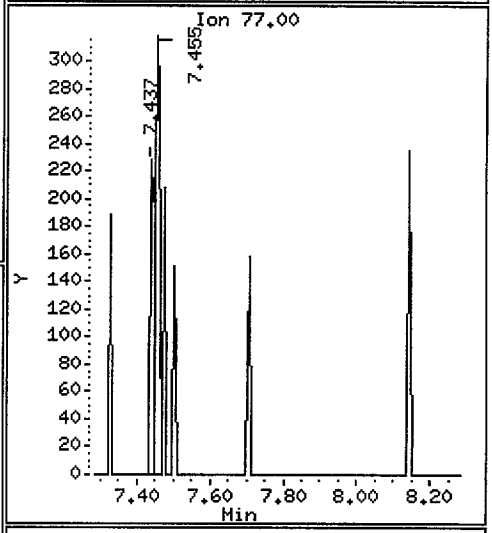
55 trans-1,3-Dichloropropene

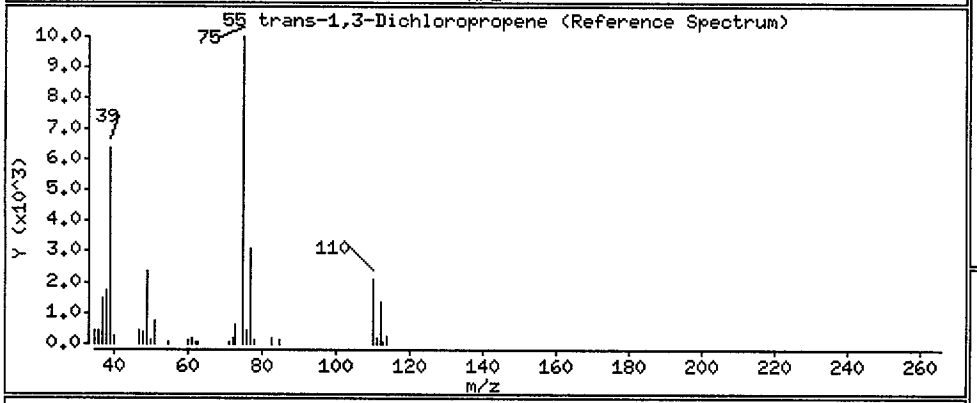
Concentration: 0.63757 ug/L

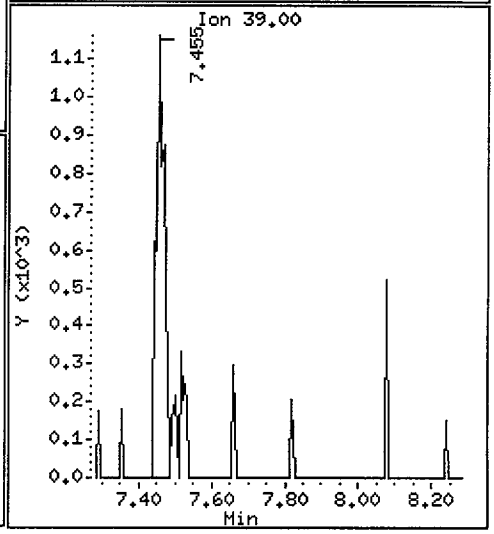


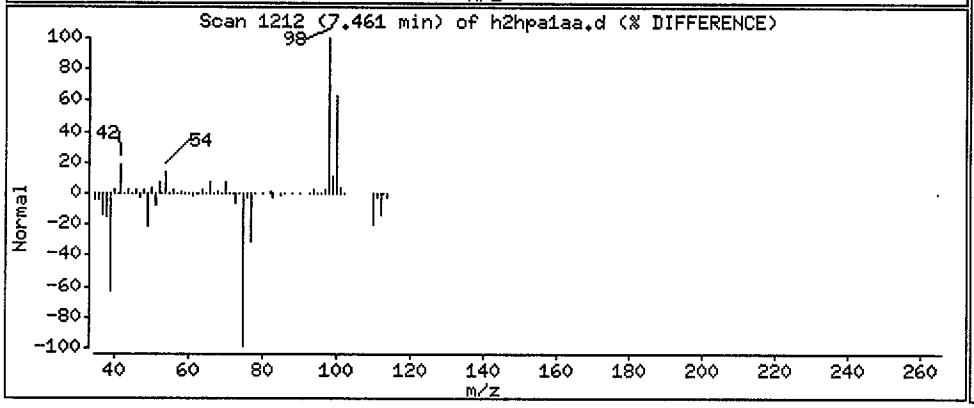












Data File: /chem/gcms/mz.i/Z040506.b/h2hpa1aa.d

Date : 05-APR-2006 18:12

Client ID: G-2893-R1-SCRUBBER

Instrument: mz.i

Sample Info: H2HPA1AA,1,0,,

Purge Volume: 25.0

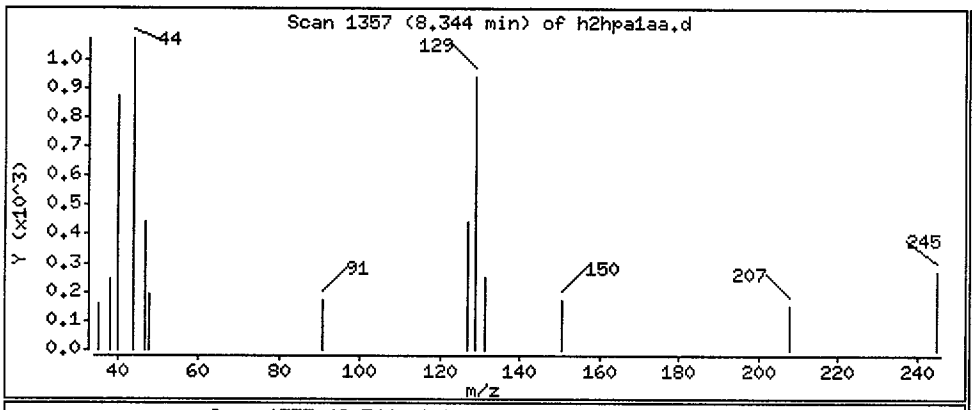
Operator: 063605

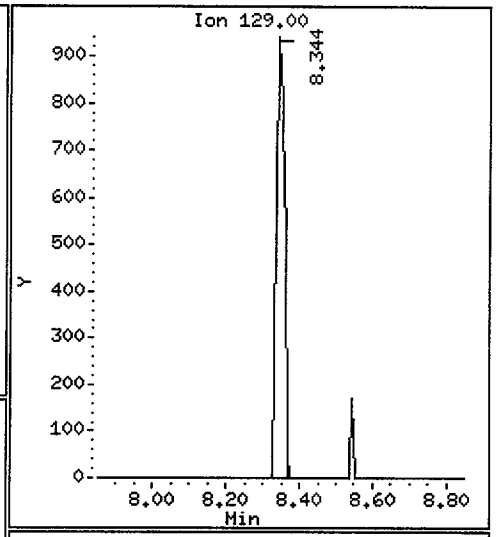
Column phase: J+W 624

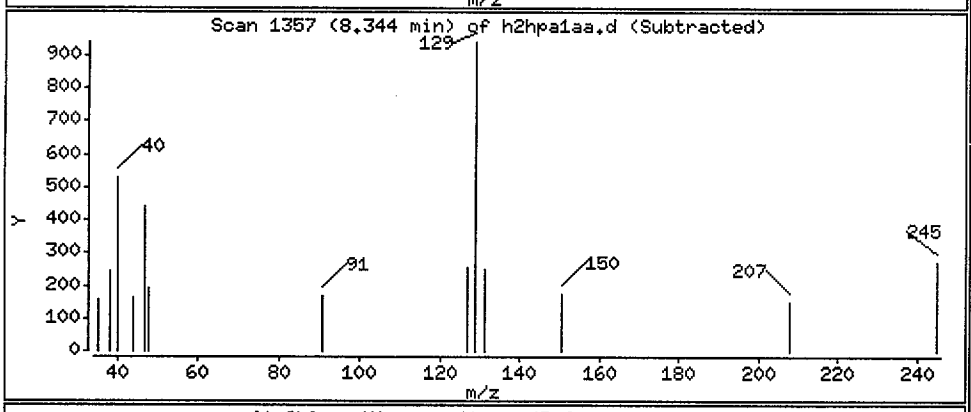
Column diameter: 0.18

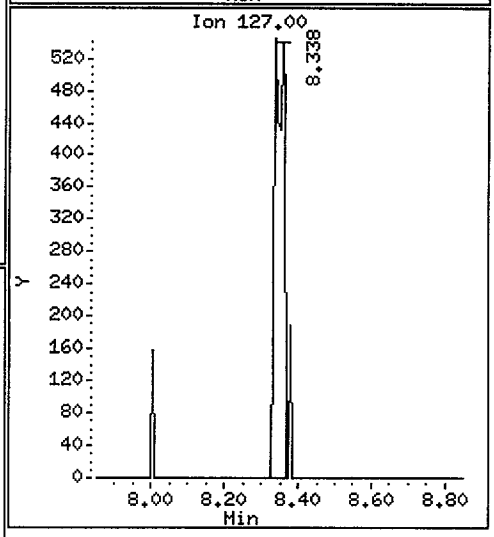
61 Chlorodibromomethane

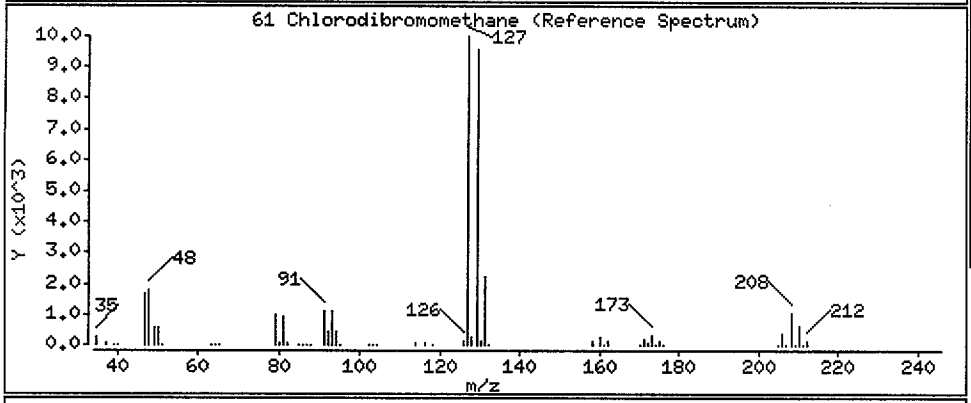
Concentration: 0.91588 ug/L

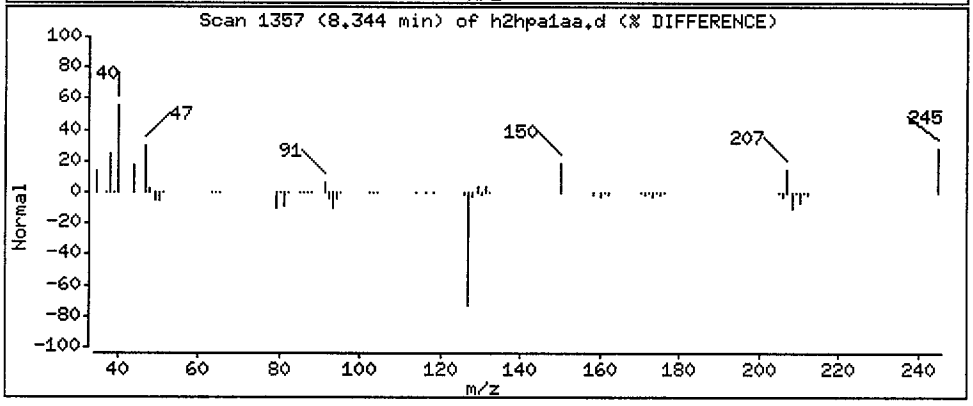












Data File: /chem/gcms/mz.i/Z040506.b/h2hpa1aa.d

Date : 05-APR-2006 18:12

Client ID: G-2893-R1-SCRUBBER

Instrument: mz.i

Sample Info: H2HPA1AA,1,0,,

Purge Volume: 25.0

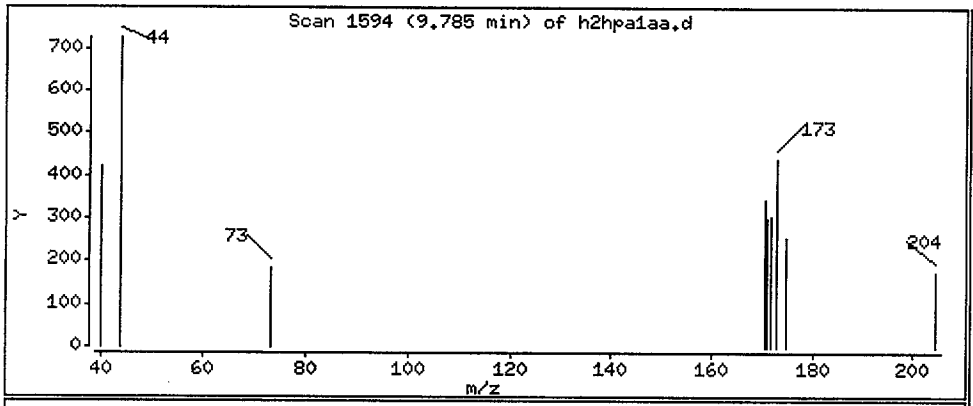
Operator: 063605

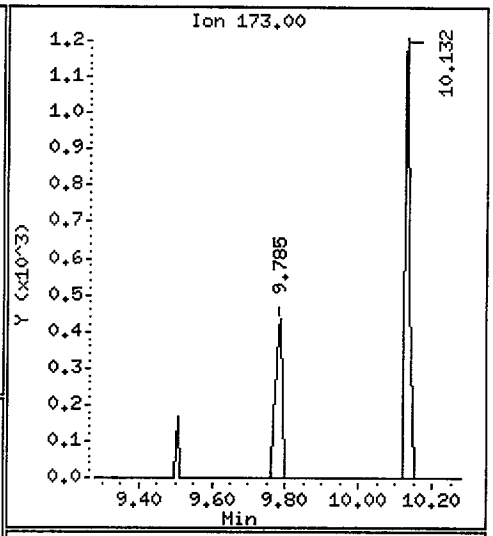
Column phase: J+W 624

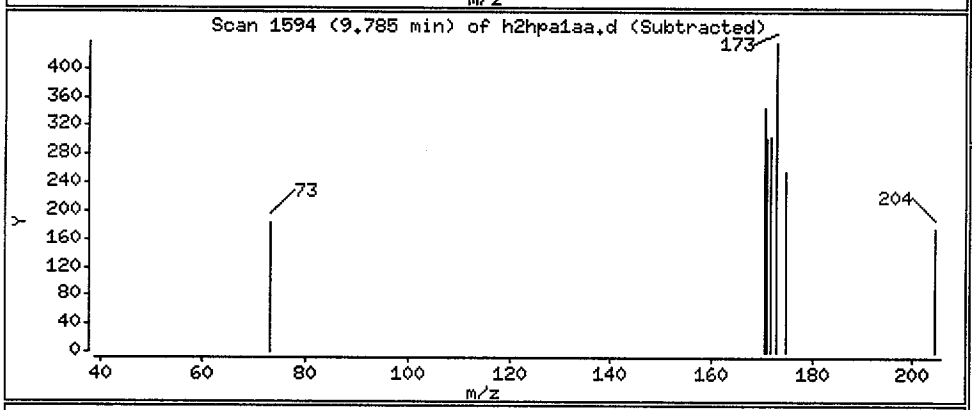
Column diameter: 0.18

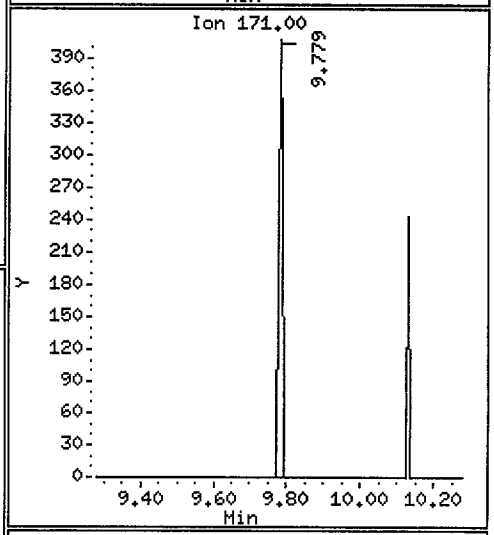
69 Bromoform (spcc)

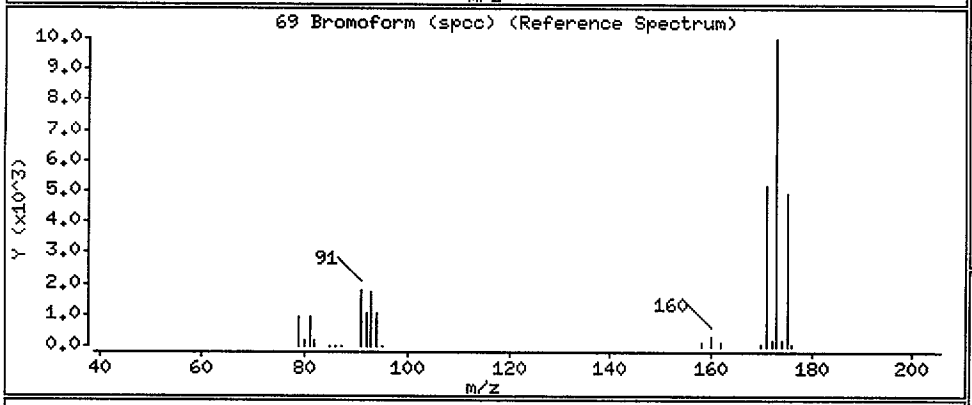
Concentration: 0.98770 ug/L

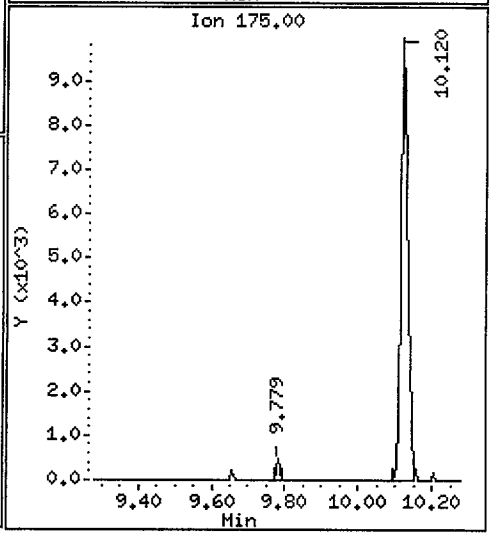


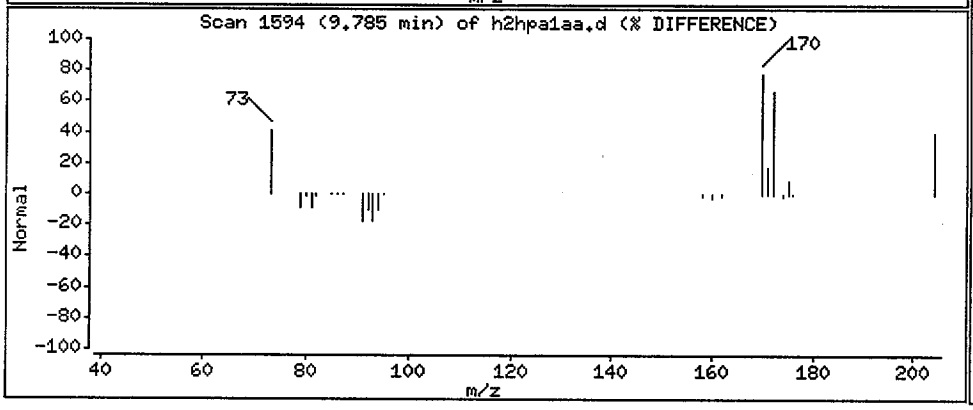












Data File: /var/chem/gcms/mz.i/Z040506.b/h2hpa1aa.d
Report Date: 07-Apr-2006 13:52

STL Knoxville

Volatile Organics by GC/MS

Data file : /var/chem/gcms/mz.i/Z040506.b/h2hpa1aa.d
Lab Smp Id: H2HPA1AA Client Smp ID: G-2893-R1-SCRUBBER
Inj Date : 05-APR-2006 18:12
Operator : 063605 Inst ID: mz.i
Smp Info : H2HPA1AA,1,0,,
Misc Info : Z040506,8260B_LM,focus.sub
Comment : Volatile Organics by GC/MS
Method : /var/chem/gcms/mz.i/Z040506.b/8260B_LM.m
Meth Date : 06-Apr-2006 17:11 tillerm Quant Type: ISTD
Cal Date : 24-MAR-2006 13:51 Cal File: icvzc248.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: focus.sub
Target Version: 3.50
Processing Host: qmidhp01

Concentration Formula: Amt * DF * Uf*Vt/(Vo*1000) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Unit Correction factor
Vt	25000.00000	Sample Volume Purged
Vo	25.00000	Sample Volume Used

Cpnd Variable Local Compound Variable

ISTD	RT	HEIGHT	AMOUNT
* 1 Fluorobenzene	5.667	1039158	10.000

	CONCENTRATIONS			QUANT			
RT	HEIGHT	ON-COL(ug/L)	FINAL(ug/L)	QUAL	LIBRARY	LIB ENTRY	CPND #
Carbon dioxide			CAS #: 124-38-9				
0.910	1518528	14.6130617	14.613	5	NIST05.1	80	1

MT 4/7/06

Data File: /var/chem/gcms/mz.i/Z040506.b/h2hpa1aa.d

Date : 05-APR-2006 18:12

Client ID: G-2893-R1-SCRUBBER

Instrument: mz.i

Sample Info: H2HPA1AA,1,0,,

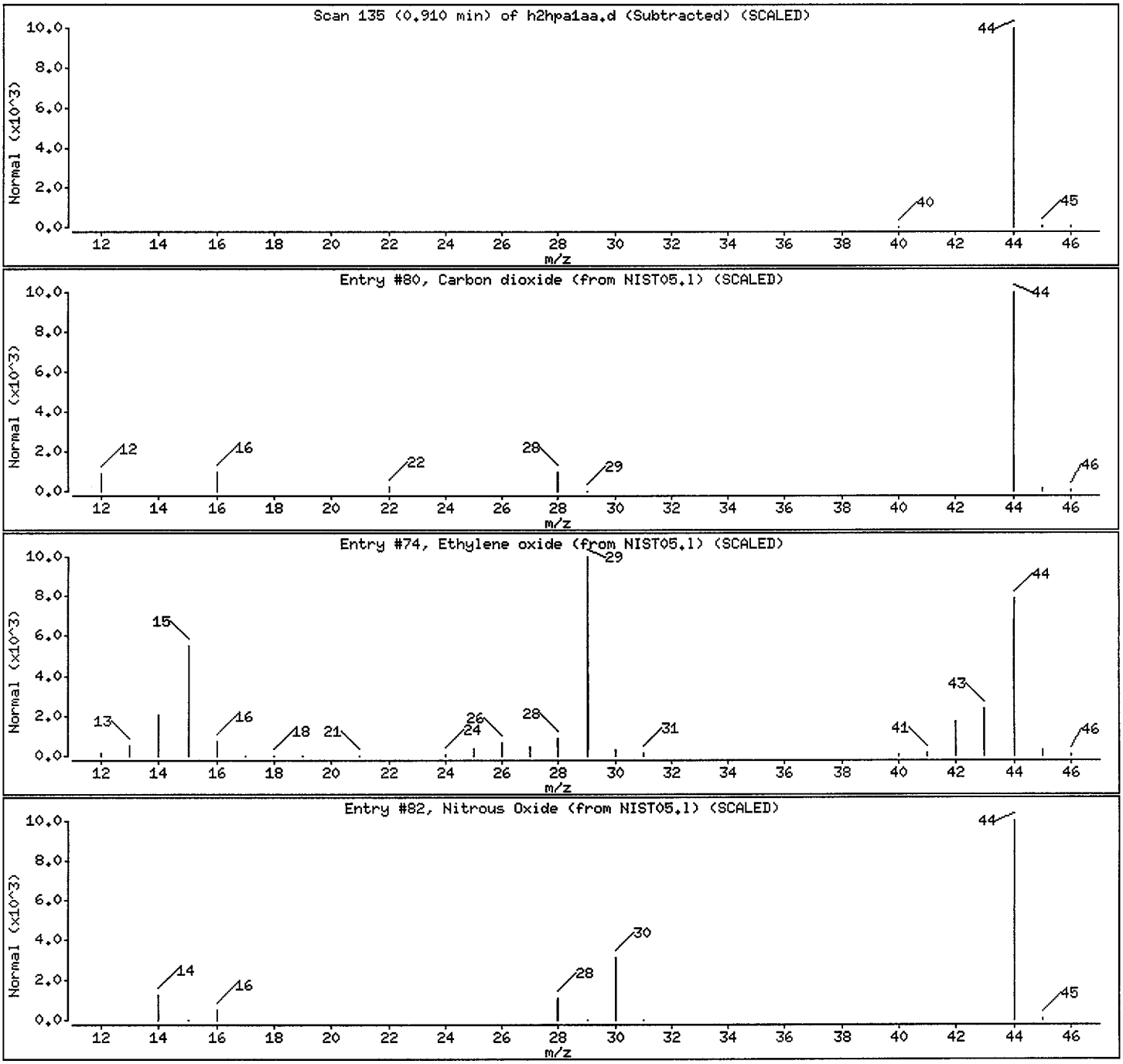
Purge Volume: 25.0

Operator: 063605

Column phase: J+W 624

Column diameter: 0.18

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Carbon dioxide	124-38-9	NIST05.l	80	5	CO2	44
Ethylene oxide	75-21-8	NIST05.l	74	3	C2H4O	44
Nitrous Oxide	10024-97-2	NIST05.l	82	3	N2O	44



STL Knoxville - ACS

Client Sample ID: G-2897-R1-POTW DISCHARGE

GC/MS Volatiles

Lot-Sample #...: H6D030205-003 **Work Order #...:** H2HPW1AA **Matrix.....:** WATER
Date Sampled...: 03/28/06 **Date Received..:** 04/02/06
Prep Date.....: 04/06/06 **Analysis Date..:** 04/06/06
Prep Batch #...: 6096330
Dilution Factor: 1 **Method.....:** SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	**3.7 J**	**10**	**ug/L**	**1.4**
Acrylonitrile	ND	20	ug/L	2.7
Benzene	ND	1.0	ug/L	0.10
Bromobenzene	ND	1.0	ug/L	0.11
Bromochloromethane	ND	1.0	ug/L	0.24
Bromodichloromethane	ND	1.0	ug/L	0.10
Bromoform	**2.0**	**1.0**	**ug/L**	**0.14**
Bromomethane	ND	2.0	ug/L	0.38
2-Butanone	ND	5.0	ug/L	0.75
n-Butylbenzene	ND	1.0	ug/L	0.10
sec-Butylbenzene	ND	1.0	ug/L	0.10
tert-Butylbenzene	ND	1.0	ug/L	0.24
Carbon disulfide	ND	1.0	ug/L	0.10
Carbon tetrachloride	ND	1.0	ug/L	0.12
Chlorobenzene	ND	1.0	ug/L	0.10
Chlorodibromomethane	**1.4**	**1.0**	**ug/L**	**0.20**
Chloroethane	ND	2.0	ug/L	0.24
Chloroform	**0.14 J**	**1.0**	**ug/L**	**0.10**
Chloromethane	ND	2.0	ug/L	0.12
2-Chlorotoluene	ND	1.0	ug/L	0.24
4-Chlorotoluene	ND	1.0	ug/L	0.21
1,2-Dibromo-3-chloro-propane	ND	2.0	ug/L	0.45
1,2-Dibromoethane	ND	1.0	ug/L	0.24
Dibromomethane	ND	1.0	ug/L	0.21
1,2-Dichlorobenzene	ND	1.0	ug/L	0.10
1,3-Dichlorobenzene	ND	1.0	ug/L	0.10
1,4-Dichlorobenzene	ND	1.0	ug/L	0.12
Dichlorodifluoromethane	ND	2.0	ug/L	0.15
1,1-Dichloroethane	ND	1.0	ug/L	0.10
1,2-Dichloroethane	ND	1.0	ug/L	0.10
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.12
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.10
1,1-Dichloroethene	ND	1.0	ug/L	0.10
1,2-Dichloropropane	ND	1.0	ug/L	0.10
1,3-Dichloropropane	ND	1.0	ug/L	0.17
2,2-Dichloropropane	ND	1.0	ug/L	0.11
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.10
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.11

(Continued on next page)

STL Knoxville - ACS

Client Sample ID: G-2897-R1-POTW DISCHARGE

GC/MS Volatiles

Lot-Sample #...: H6D030205-003 **Work Order #...:** H2HPW1AA **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1-Dichloropropene	ND	1.0	ug/L	0.10
Ethylbenzene	ND	1.0	ug/L	0.10
Hexachlorobutadiene	ND	2.0	ug/L	0.12
2-Hexanone	ND	5.0	ug/L	0.76
Iodomethane	ND	2.0	ug/L	0.12
Isopropylbenzene	ND	1.0	ug/L	0.10
p-Isopropyltoluene	ND	1.0	ug/L	0.10
Methylene chloride	**0.35 J**	**2.0**	**ug/L**	**0.23**
4-Methyl-2-pentanone	ND	5.0	ug/L	0.40
Naphthalene	ND	1.0	ug/L	0.17
n-Propylbenzene	ND	1.0	ug/L	0.10
Styrene	ND	1.0	ug/L	0.10
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	0.12
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.15
Tetrachloroethene	**0.13 J**	**1.0**	**ug/L**	**0.10**
Tetrahydrofuran	ND	4.0	ug/L	1.2
Toluene	ND	1.0	ug/L	0.10
1,2,3-Trichlorobenzene	ND	1.0	ug/L	0.23
1,2,4-Trichloro-benzene	ND	1.0	ug/L	0.15
1,1,1-Trichloroethane	ND	1.0	ug/L	0.10
1,1,2-Trichloroethane	ND	1.0	ug/L	0.25
Trichloroethene	ND	1.0	ug/L	0.10
Trichlorofluoromethane	ND	2.0	ug/L	0.12
1,2,3-Trichloropropane	ND	1.0	ug/L	0.36
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	1.0	ug/L	0.13
1,2,4-Trimethylbenzene	ND	1.0	ug/L	0.11
1,3,5-Trimethylbenzene	ND	1.0	ug/L	0.10
Vinyl acetate	ND	2.0	ug/L	0.24
Vinyl chloride	ND	1.0	ug/L	0.24
m-Xylene & p-Xylene	ND	1.0	ug/L	0.20
o-Xylene	ND	1.0	ug/L	0.14
Xylenes (total)	ND	1.0	ug/L	0.30

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	105	(79 - 120)
1,2-Dichloroethane-d4	103	(71 - 127)
Toluene-d8	98	(80 - 120)
Bromofluorobenzene	89	(69 - 126)

NOTE(S):

J Estimated result. Result is less than RL.

STL Knoxville - ACS

G-2897-R1-POTW DISCHARGE

GC/MS Volatiles

Lot-Sample #: H6D030205-003 **Work Order #:** H2HPW1AA **Matrix:** WATER

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT	RETENTION TIME	UNITS
None				ug/L

Data File: /var/chem/gcms/mz.i/Z040606.b/h2hpw1aa.d
Report Date: 07-Apr-2006 16:44

STL Knoxville

Volatile Organics by GC/MS

Data file : /var/chem/gcms/mz.i/Z040606.b/h2hpw1aa.d
Lab Smp Id: H2HPW1AA Client Smp ID: G-2897-R1-POTW DISC
Inj Date : 06-APR-2006 16:46
Operator : 063605 Inst ID: mz.i
Smp Info : H2HPW1AA,1,0,,
Misc Info : Z040606,8260B_LM,focus.sub
Comment : Volatile Organics by GC/MS
Method : /var/chem/gcms/mz.i/Z040606.b/8260B_LM.m
Meth Date : 07-Apr-2006 16:31 tillerm Quant Type: ISTD
Cal Date : 24-MAR-2006 13:51 Cal File: icvzc248.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: focus.sub
Target Version: 3.50
Processing Host: qmidhp01

Concentration Formula: Amt * DF * Uf*Vt/(Vo*1000) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Unit Correction factor
Vt	25000.00000	Sample Volume Purged
Vo	25.00000	Sample Volume Used

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
*	1 Fluorobenzene	96	5.673	5.667	(1.000)	886651	10.0000	
*	2 Chlorobenzene-d5	119	8.934	8.934	(1.000)	174115	10.0000	
*	3 1,4 Dichlorobenzene-d4	152	11.489	11.489	(1.000)	214261	10.0000	
$	5 1,2-Dichloroethane-d4	65	5.235	5.229	(0.923)	126925	10.3311	10.331
$	4 Dibromofluoromethane	113	4.828	4.827	(0.851)	149572	10.5278	10.528
$	6 Toluene-d8	98	7.462	7.461	(0.835)	752987	9.84257	9.8426
$	7 4-Bromofluorobenzene	95	10.126	10.120	(0.881)	192735	8.91949	8.9195
	22 Acetone	43	2.133	2.126	(0.376)	2261	3.67014	3.6701(M)
	27 Methylene Chloride	84	2.510	2.510	(0.442)	5264	0.35499	0.35499
	40 Chloroform (ccc)	83	4.615	4.614	(0.813)	4585	0.14312	0.14312
	58 Tetrachloroethene	164	8.094	8.094	(0.906)	2582	0.12563	0.12563
	61 Chlorodibromomethane	129	8.350	8.350	(0.935)	5638	1.38601	1.3860
	69 Bromoform (spcc)	173	9.780	9.779	(1.095)	3414	2.02388	2.0239

Data File: /var/chem/gcms/mz.i/Z040606.b/h2hpw1aa.d
Report Date: 07-Apr-2006 16:44

QC Flag Legend

M - Compound response manually integrated.

Data File: /chem/gcms/mz.i/Z040606.b/h2hpw1aa.d
Report Date: 06-Apr-2006 17:04

STL Knoxville

Volatile Organics by GC/MS

Data file : /chem/gcms/mz.i/Z040606.b/h2hpw1aa.d
Lab Smp Id: H2HPW1AA Client Smp ID: G-2897-R1-POTW DISC
Inj Date : 06-APR-2006 16:46
Operator : 063605 Inst ID: mz.i
Smp Info : H2HPW1AA,1,0,,
Misc Info : Z040606,8260B_LM,focus.sub
Comment : Volatile Organics by GC/MS
Method : /var/chem/gcms/mz.i/Z040606.b/8260B_LM.m
Meth Date : 06-Apr-2006 15:29 tillerm Quant Type: ISTD
Cal Date : 24-MAR-2006 13:51 Cal File: icvzc248.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: focus.sub
Target Version: 3.50
Processing Host: qmidhp01

Concentration Formula: Amt * DF * Uf*Vt/(Vo*1000) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Unit Correction factor
Vt	25000.00000	Sample Volume Purged
Vo	25.00000	Sample Volume Used

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)
* 1 Fluorobenzene	96	5.673	5.667	(1.000)	886651	10.0000	
* 2 Chlorobenzene-d5	119	8.934	8.934	(1.000)	174115	10.0000	
* 3 1,4 Dichlorobenzene-d4	152	11.489	11.489	(1.000)	214261	10.0000	
$ 5 1,2-Dichloroethane-d4	65	5.235	5.229	(0.923)	126925	10.3311	10.331
$ 4 Dibromofluoromethane	113	4.828	4.827	(0.851)	149572	10.5278	10.528
$ 6 Toluene-d8	98	7.462	7.461	(0.835)	752987	9.84256	9.8426
$ 7 4-Bromofluorobenzene	95	10.126	10.120	(0.881)	192735	8.91948	8.9195
15 Bromomethane	94	1.427	1.408	(0.252)	502	0.88737	0.88737
22 Acetone	43	2.133	2.126	(0.376)	1266	3.48618	3.4862
23 *Iodomethane	142	2.187	2.181	(0.386)	390	0.53911	0.53911
27 Methylene Chloride	84	2.510	2.510	(0.442)	5264	0.35500	0.35500
39 *THF	42	4.329	4.535	(0.763)	1453	0.69088	0.69088
40 Chloroform (ccc)	83	4.615	4.614	(0.813)	4585	0.14312	0.14312
45 1,2-Dichloroethane	62	5.667	5.326	(0.999)	13945	0.75316	0.75316

MT 4/7/06

Data File: /chem/gcms/mz.i/Z040606.b/h2hpw1aa.d
Report Date: 06-Apr-2006 17:04

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)
53 4-Methyl-2-pentanone	43	7.456	7.376	(1.314)	5808	~~0.75014~~	~~0.75014~~
58 Tetrachloroethene	164	8.094	8.094	(0.906)	2582	0.12564	0.12564
61 Chlorodibromomethane	129	8.350	8.350	(0.935)	5638	1.38610	1.3861
69 Bromoform (spcc)	173	9.780	9.779	(1.095)	3414	2.02395	2.0240

CVT
4/7/06

Data File: /chem/gcms/mz.i/Z040606.b/h2hpw1aa.d
Report Date: 06-Apr-2006 17:04

STL Knoxville

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: mz.i
Lab File ID: h2hpw1aa.d
Lab Smp Id: H2HPW1AA
Analysis Type: VOA
Quant Type: ISTD
Operator: 063605
Calibration Date: 06-APR-2006
Calibration Time: 13:58
Client Smp ID: G-2897-R1-POTW DISC
Level: LOW
Sample Type: WATER
Method File: /var/chem/gcms/mz.i/Z040606.b/8260B_LM.m
Misc Info: Z040606,8260B_LM,focus.sub

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	938680	469340	1877360	886651	-5.54
2 Chlorobenzene-d5	169233	84616	338466	174115	2.88
3 1,4 Dichlorobenze	201373	100686	402746	214261	6.40

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	5.67	5.17	6.17	5.67	0.11
2 Chlorobenzene-d5	8.93	8.43	9.43	8.93	0.00
3 1,4 Dichlorobenze	11.49	10.99	11.99	11.49	0.00

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

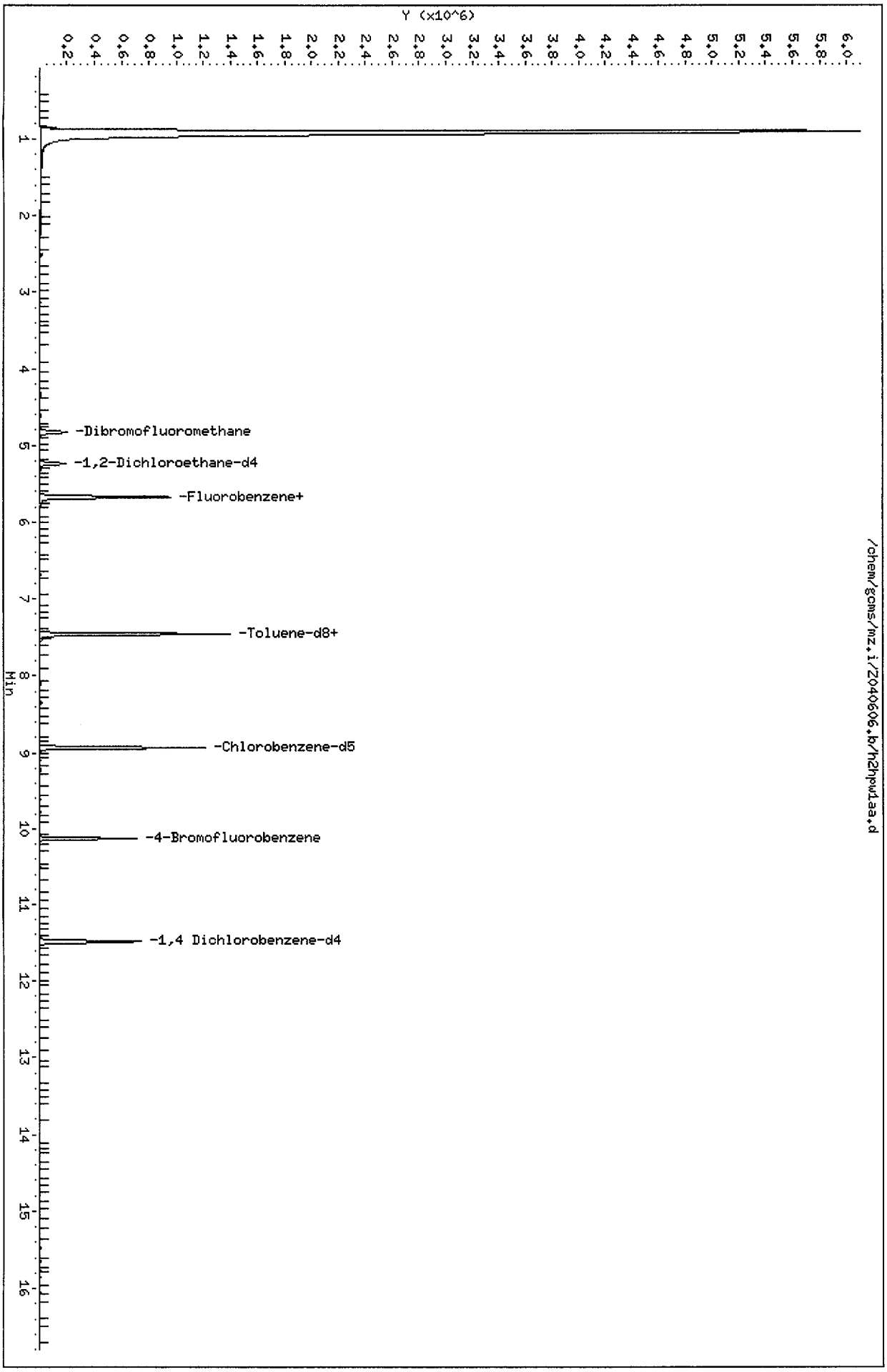
Data File: /chem/gcms/mz.i/Z040606.b/h2hpw1aa.d
Report Date: 06-Apr-2006 17:04

STL Knoxville

RECOVERY REPORT

Client Name: STL Knoxville - ACS
Sample Matrix: LIQUID
Lab Smp Id: H2HPW1AA
Level: LOW
Data Type: MS DATA
SpikeList File: allcmpds.spk
Client SDG: H6D030205
Fraction: VOA
Client Smp ID: G-2897-R1-POTW DISC
Operator: 063605
SampleType: SAMPLE
Quant Type: ISTD
Sublist File: focus.sub
Method File: /var/chem/gcms/mz.i/Z040606.b/8260B_LM.m
Misc Info: Z040606,8260B_LM,focus.sub

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
$ 5 1,2-Dichloroethane	10.000	10.331	103.31	71-127
$ 4 Dibromofluorometha	10.000	10.528	105.28	79-120
$ 6 Toluene-d8	10.000	9.8426	98.43	80-120
$ 7 4-Bromofluorobenze	10.000	8.9195	89.19	69-126


Data File: /chem/gcms/mz.i/Z040606.b/h2hpw1aa.d
Date : 06-APR-2006 16:46
Client ID: G-2897-R1-POTW DISC
Sample Info: H2HPW1AA,1.0,,
Purge Volume: 25.0
Column phase: J+W 624
Instrument: mz.i
Operator: 063605
Column diameter: 0.18
Y (x10^6)
-Dibromofluoromethane
-1,2-Dichloroethane-d4
-Fluorobenzene+
-Toluene-d8+
-Chlorobenzene-d5
-4-Bromofluorobenzene
-1,4 Dichlorobenzene-d4
/chem/gcms/mz.i/Z040606.b/h2hpw1aa.d
Min

Data File: /chem/gcms/mz.i/Z040606.b/h2hpw1aa.d

Date : 06-APR-2006 16:46

Client ID: G-2897-R1-POTW DISC

Instrument: mz.i

Sample Info: H2HPW1AA,1,0,,

Purge Volume: 25.0

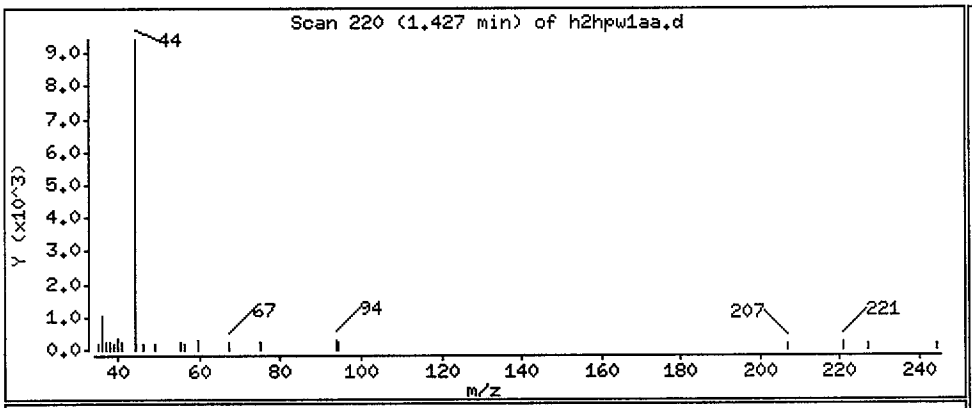
Operator: 063605

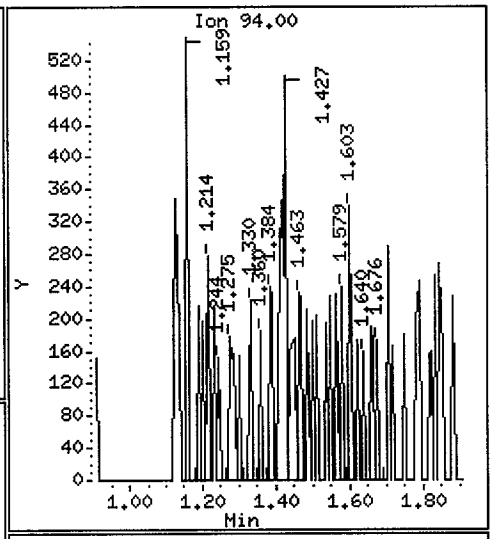
Column phase: J+W 624

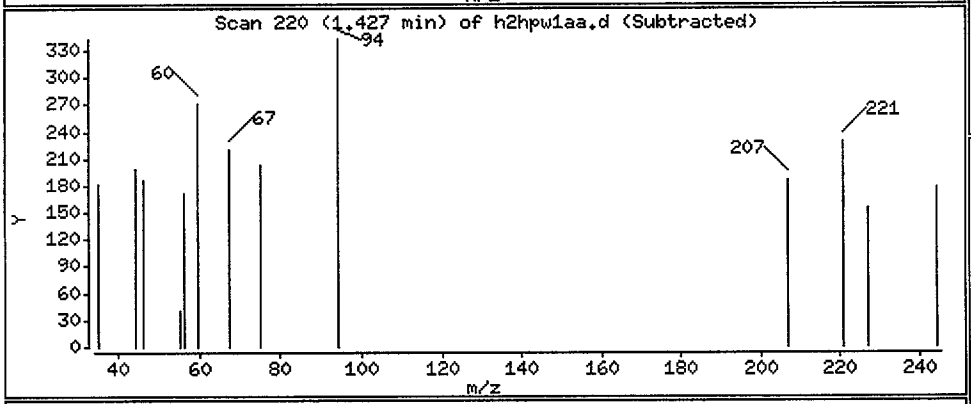
Column diameter: 0.18

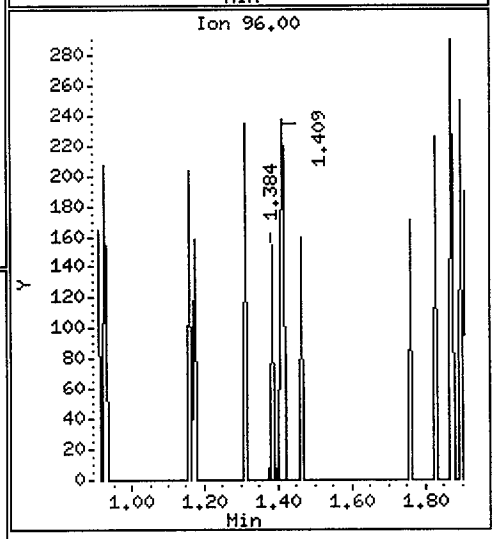
15 Bromomethane

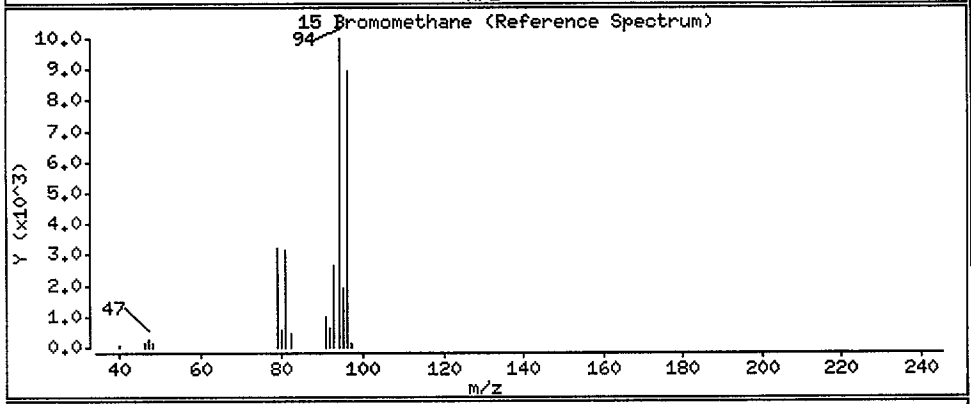
Concentration: 0.88737 ug/L

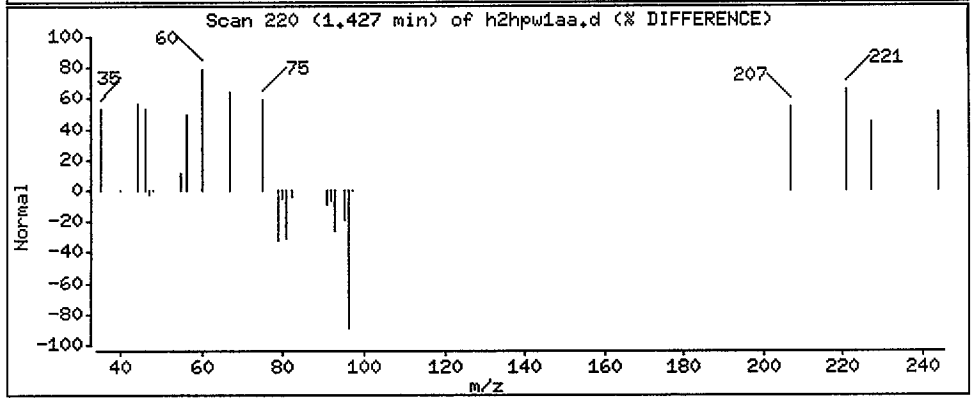












Data File: /var/chem/gcms/mz.i/Z040606.b/h2hpw1aa.d

Date : 06-APR-2006 16:46

Client ID: G-2897-R1-POTW DISC

Instrument: mz.i

Sample Info: H2HPW1AA,1,0,,

Purge Volume: 25.0

Operator: 063605

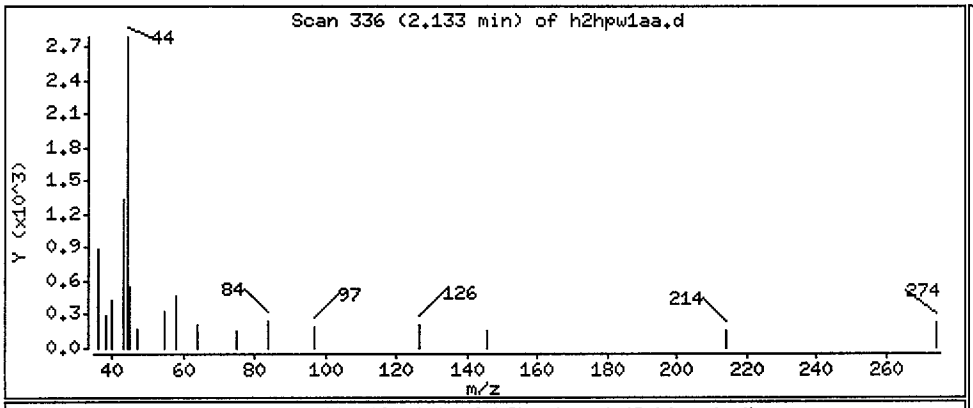
Column phase: J+W 624

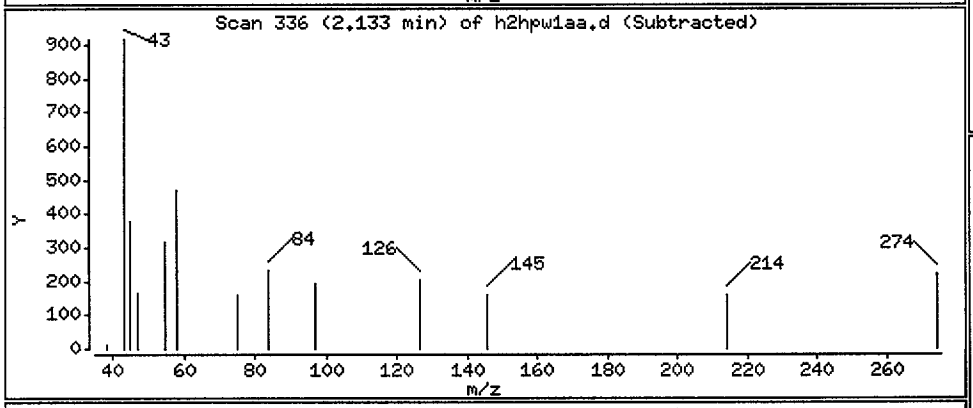
Column diameter: 0.18

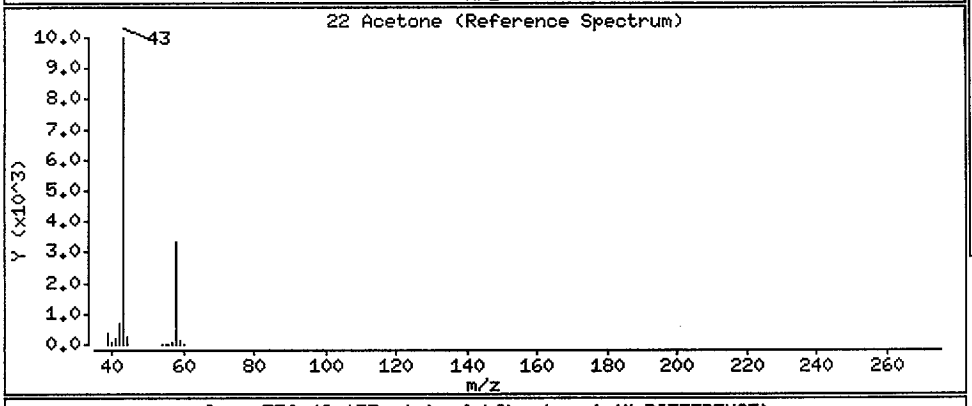
WT 4/7/06 2nd peak

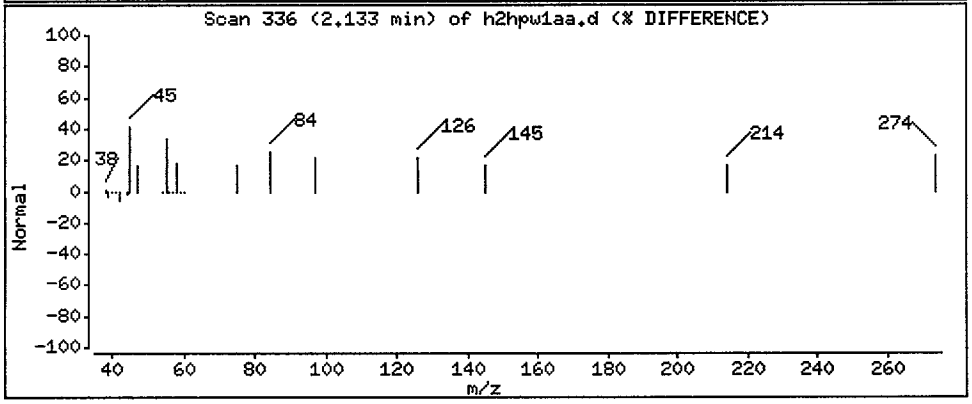
22 Acetone

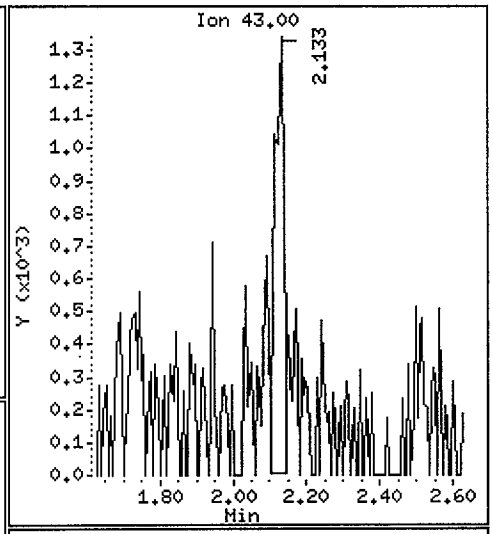
Concentration: 3.6701 ug/L

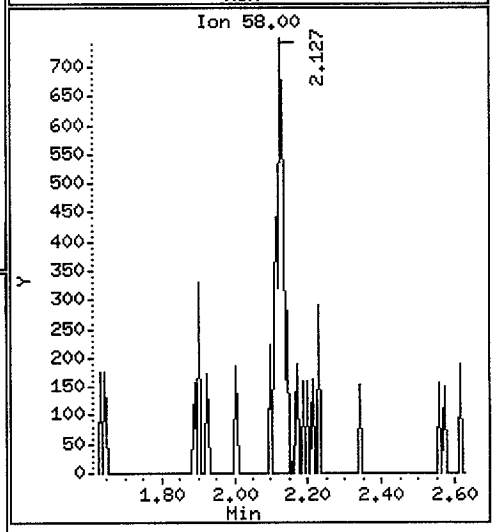












Data File: /chem/gcms/mz.i/Z040606.b/h2hpw1aa.d

Date : 06-APR-2006 16:46

Client ID: G-2897-R1-POTW DISC

Instrument: mz.i

Sample Info: H2HPW1AA,1,0,,

Purge Volume: 25.0

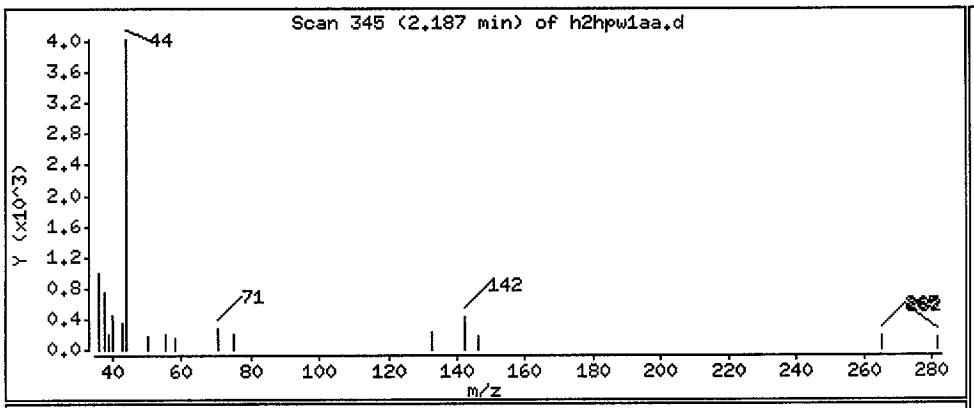
Operator: 063605

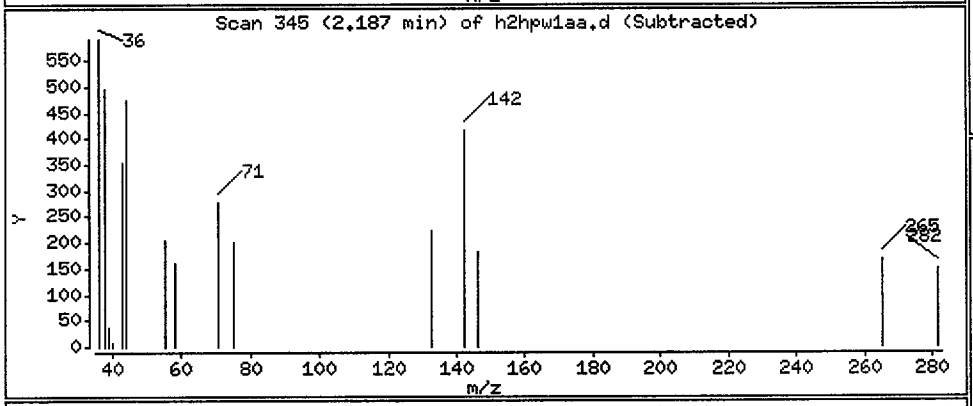
Column phase: J+W 624

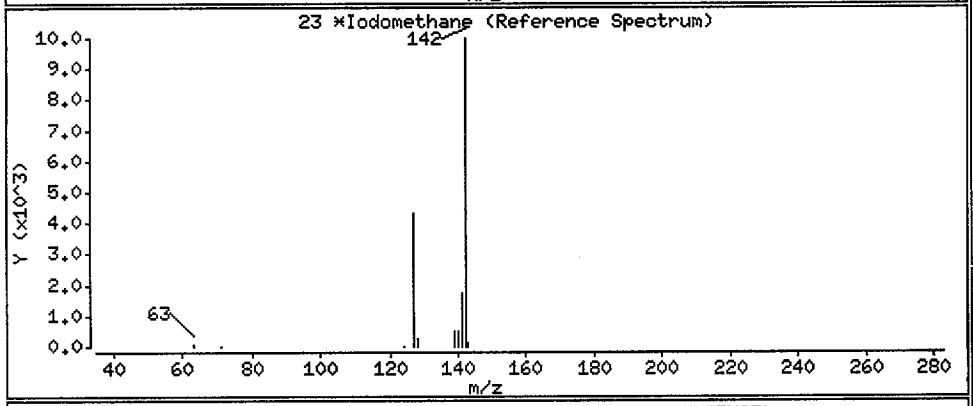
Column diameter: 0.18

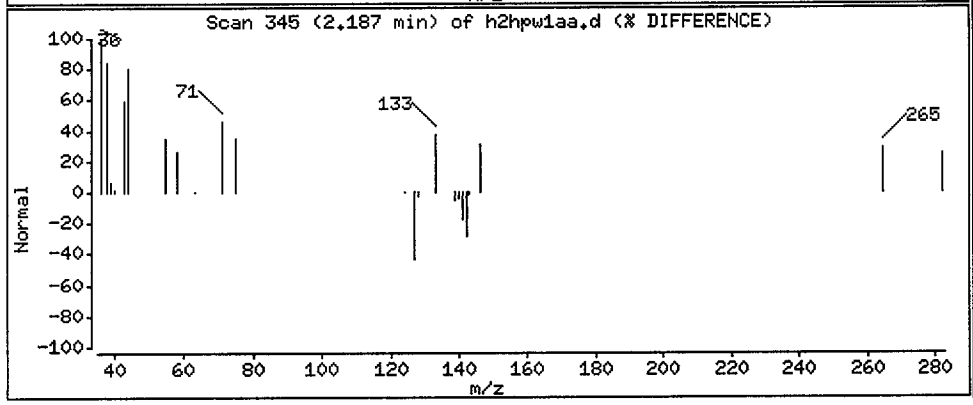
23 *Iodomethane

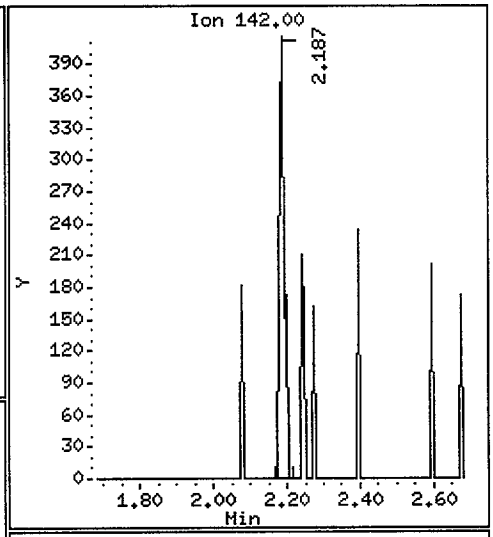
Concentration: 0.53911 ug/L

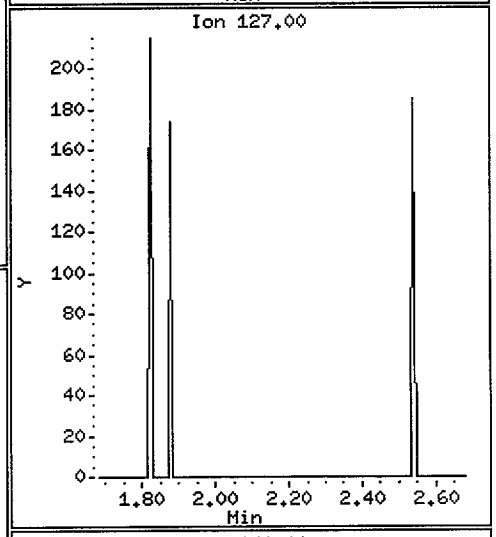


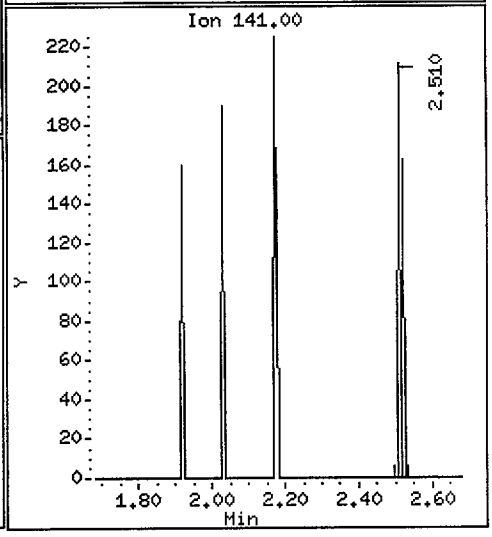












Data File: /chem/gcms/mz.i/Z040606.b/h2hpw1aa.d

Date : 06-APR-2006 16:46

Client ID: G-2897-R1-POTW DISC

Instrument: mz.i

Sample Info: H2HPW1AA,1,0,,

Purge Volume: 25.0

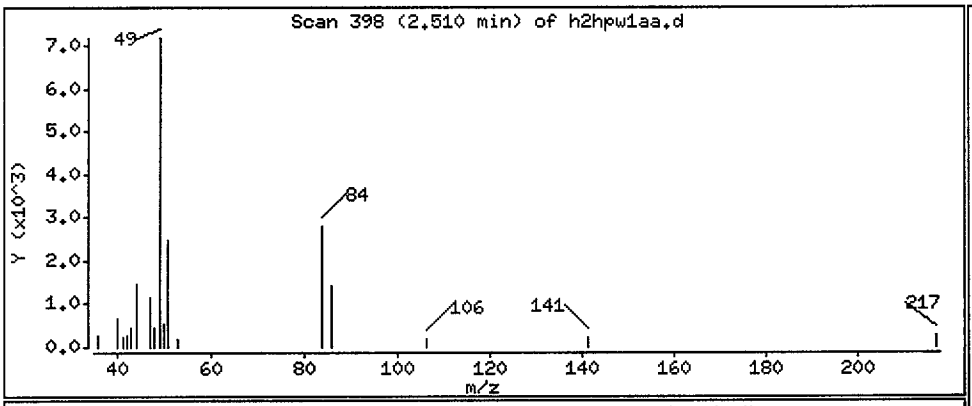
Operator: 063605

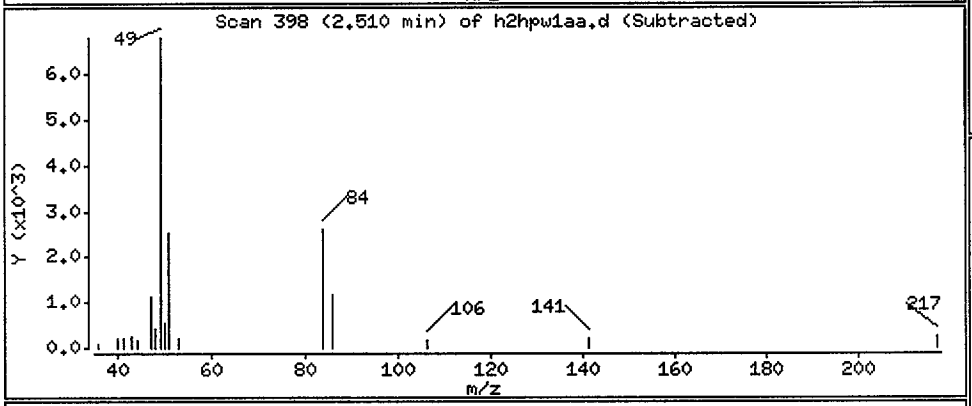
Column phase: J+W 624

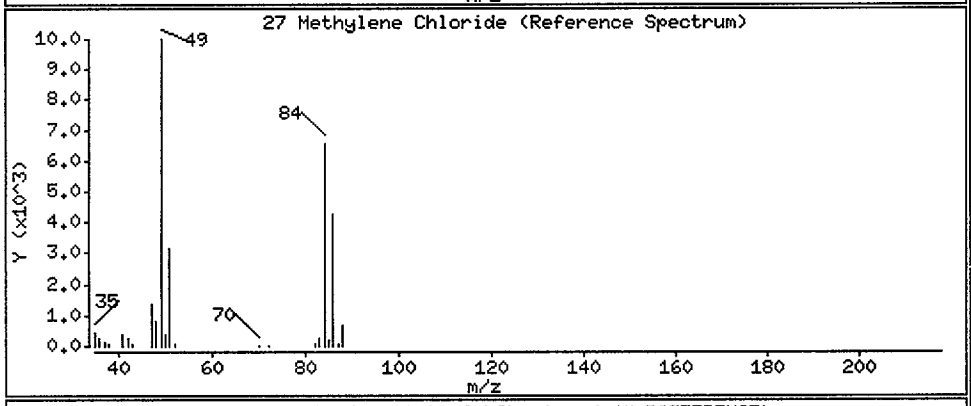
Column diameter: 0.18

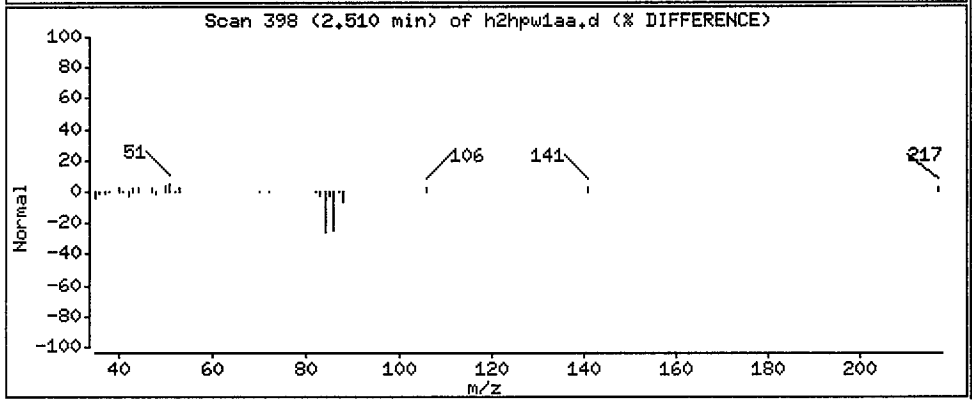
27 Methylene Chloride

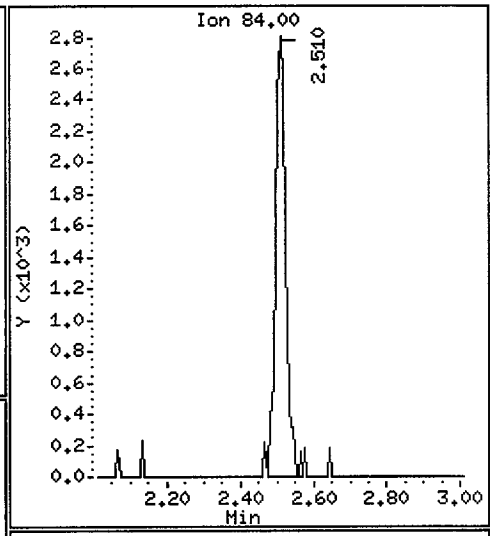
Concentration: 0.35500 ug/L

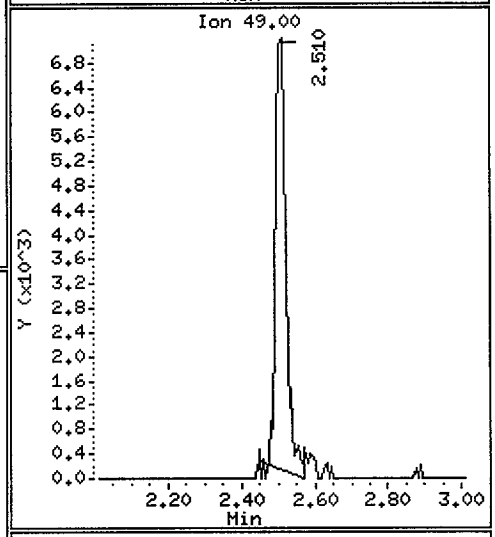


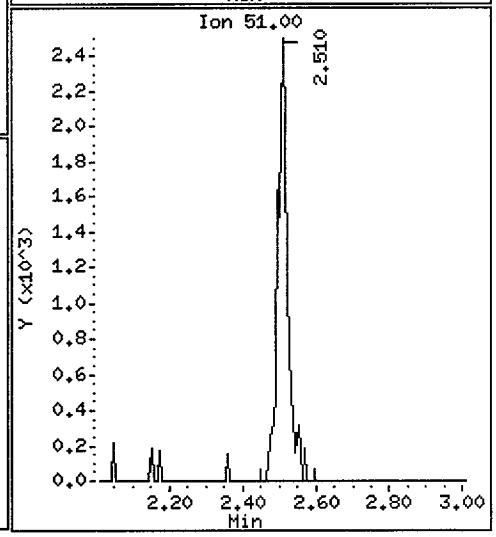












Data File: /chem/gcms/mz.i/Z040606.b/h2hpw1aa.d

Date : 06-APR-2006 16:46

Client ID: G-2897-R1-POTW DISC

Instrument: mz.i

Sample Info: H2HPW1AA,1,0,,

Purge Volume: 25.0

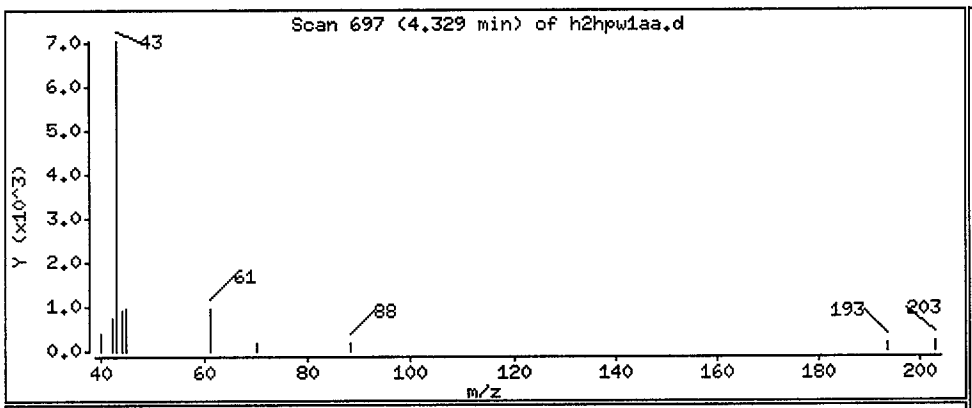
Operator: 063605

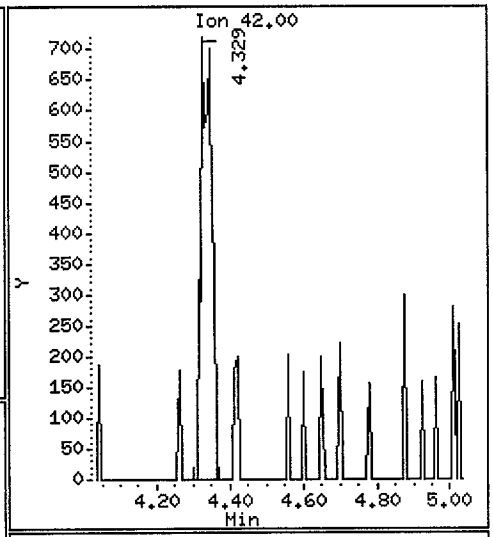
Column phase: J+W 624

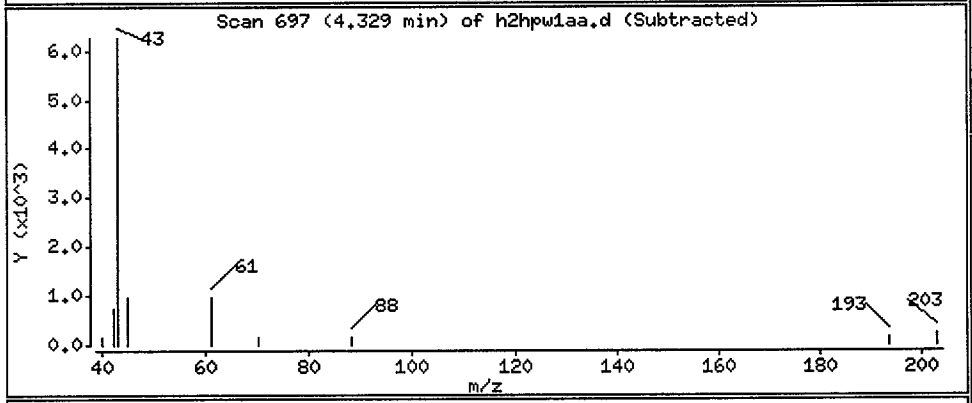
Column diameter: 0.18

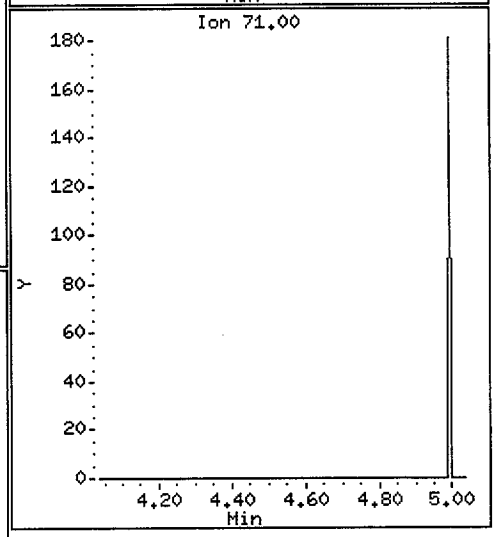
39 *THF

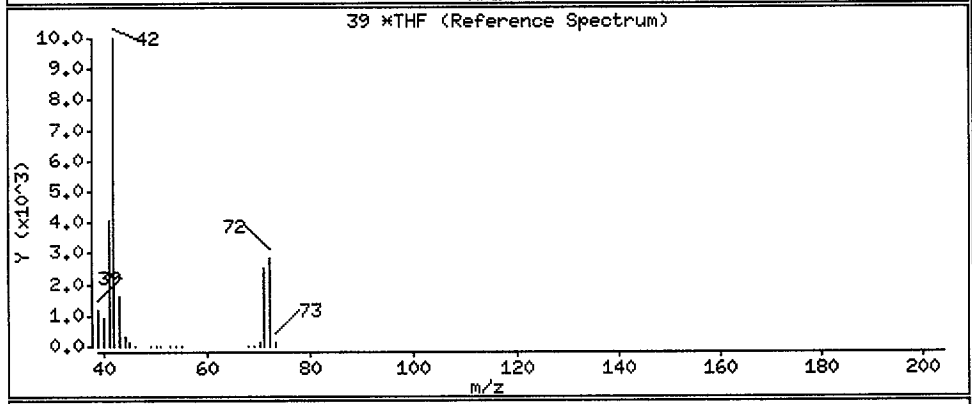
Concentration: 0.69088 ug/L

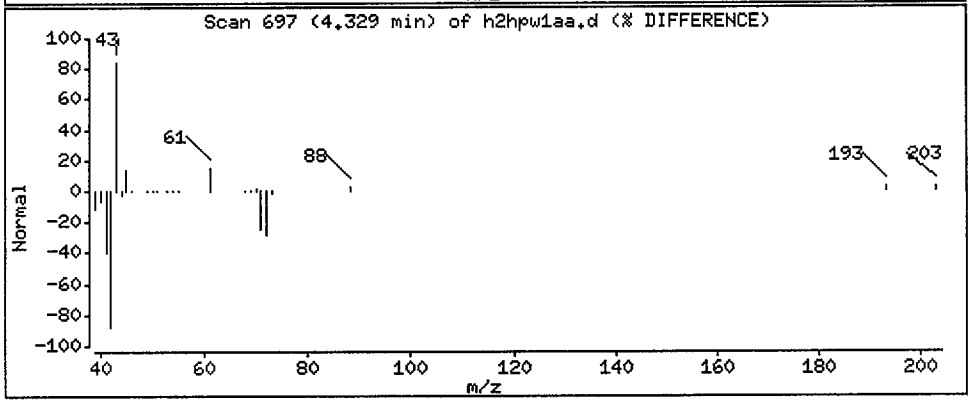












Data File: /chem/gcms/mz.i/Z040606.b/h2hpw1aa.d

Date : 06-APR-2006 16:46

Client ID: G-2897-R1-POTW DISC

Instrument: mz.i

Sample Info: H2HPW1AA,1,0,,

Purge Volume: 25.0

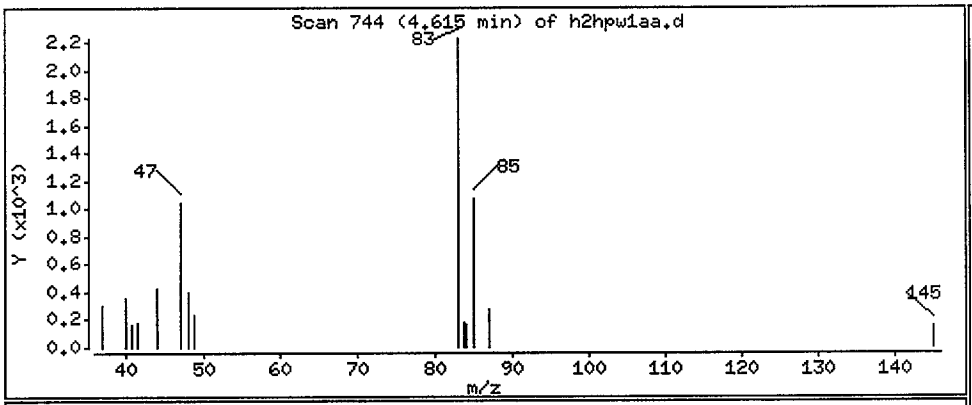
Operator: 063605

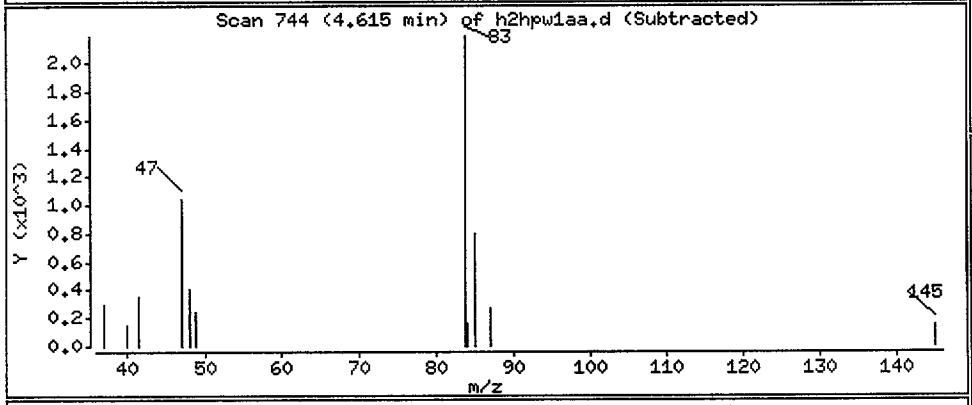
Column phase: J+W 624

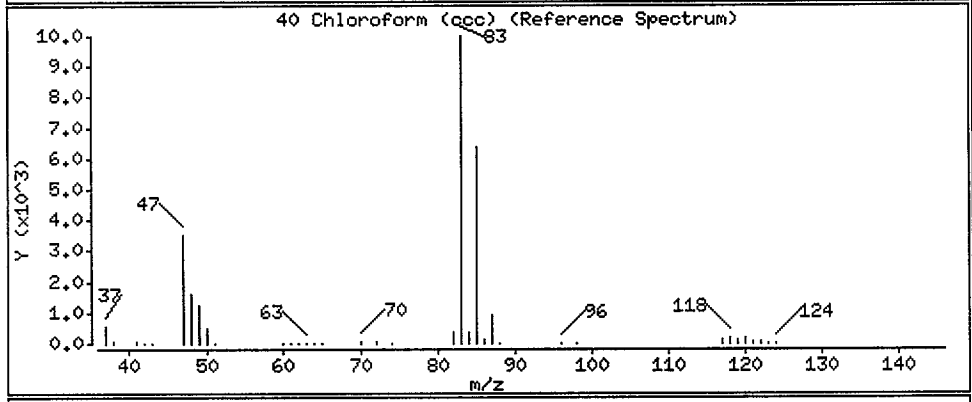
Column diameter: 0.18

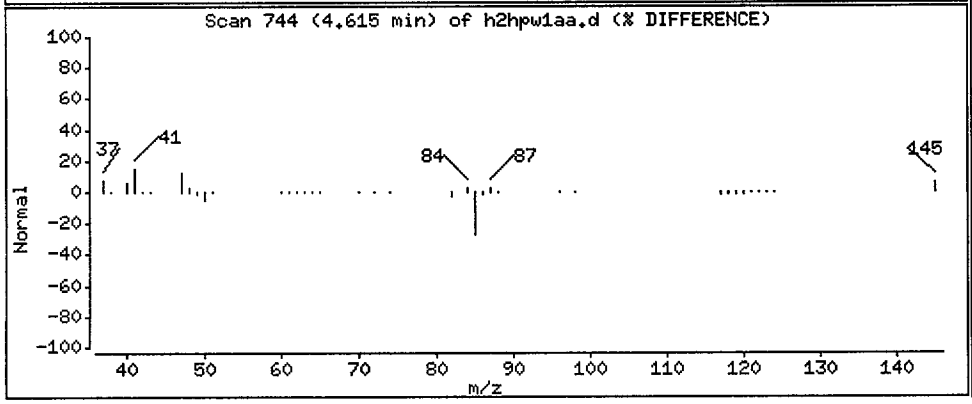
40 Chloroform (ccc)

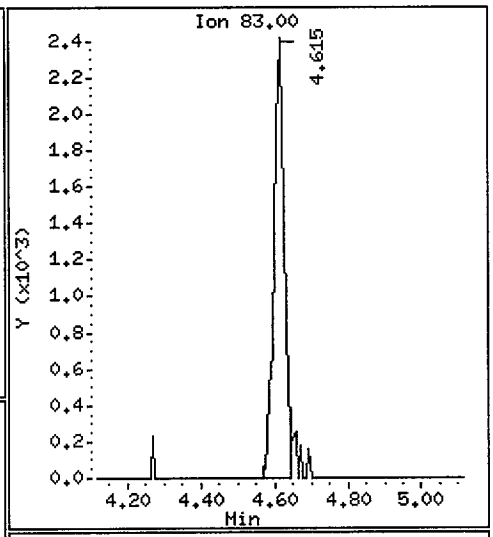
Concentration: 0.14312 ug/L

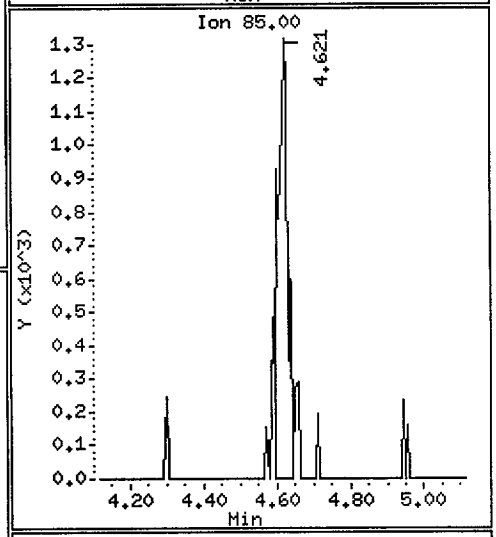


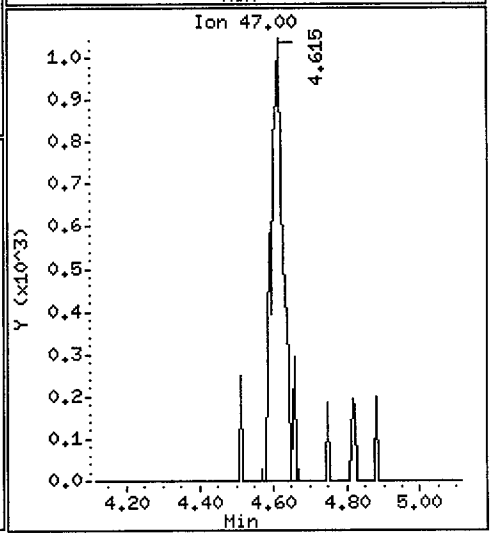












Data File: /chem/gcms/mz.i/Z040606.b/h2hpw1aa.d

Date : 06-APR-2006 16:46

Client ID: G-2897-R1-POTW DISC

Instrument: mz.i

Sample Info: H2HPW1AA,1,0,,

Purge Volume: 25.0

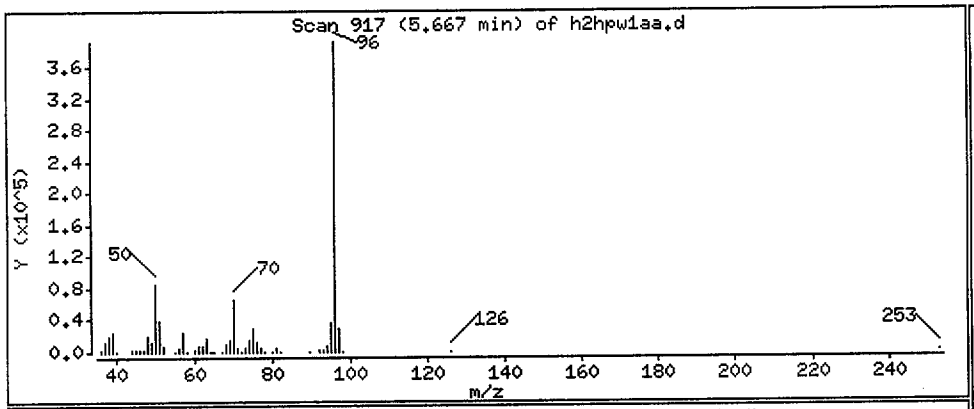
Operator: 063605

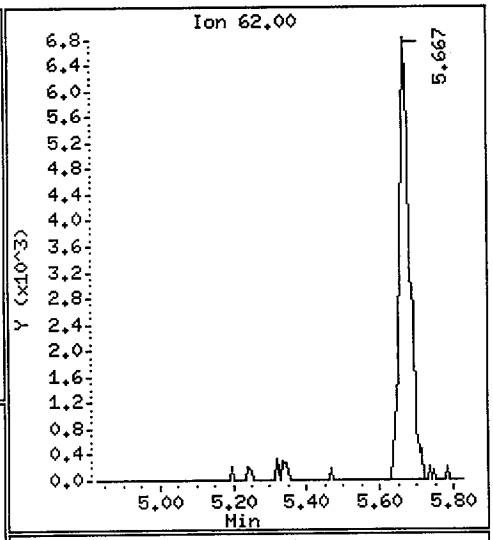
Column phase: J+W 624

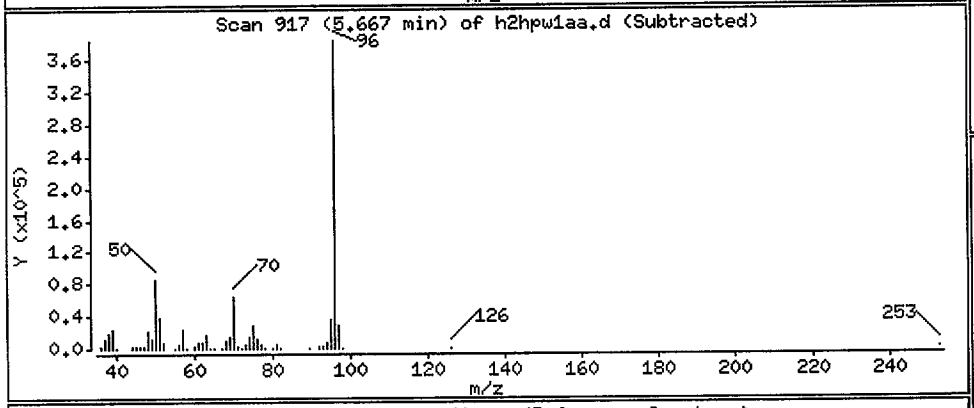
Column diameter: 0.18

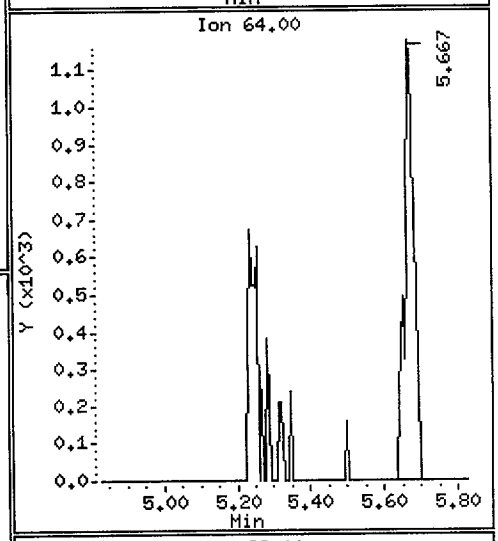
45 1,2-Dichloroethane

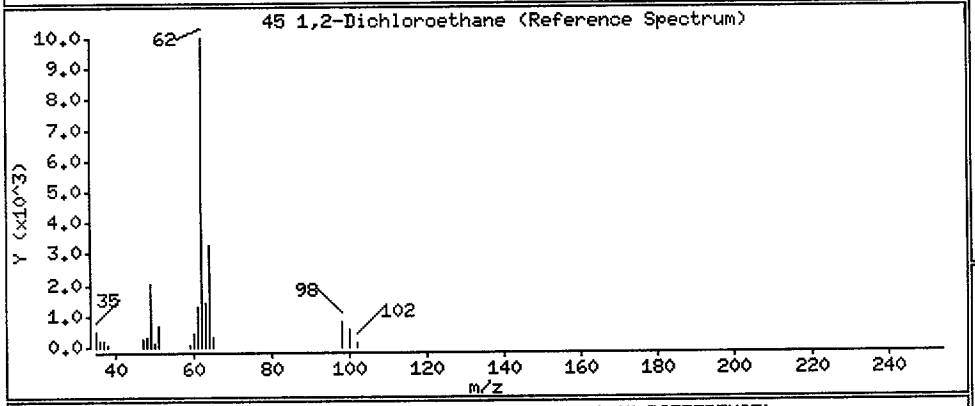
Concentration: 0.75316 ug/L

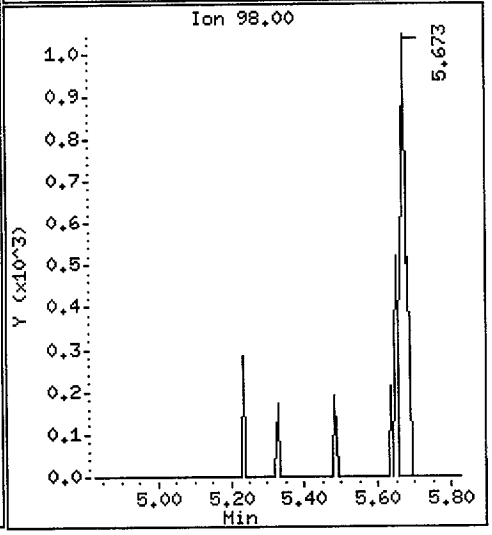


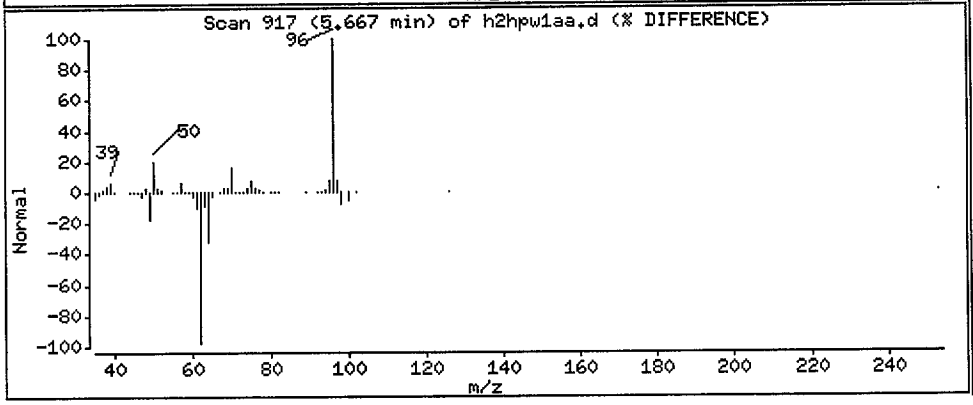












Data File: /chem/gcms/mz.i/Z040606.b/h2hpw1aa.d

Date : 06-APR-2006 16:46

Client ID: G-2897-R1-POTW DISC

Instrument: mz.i

Sample Info: H2HPW1AA,1,0,,

Purge Volume: 25.0

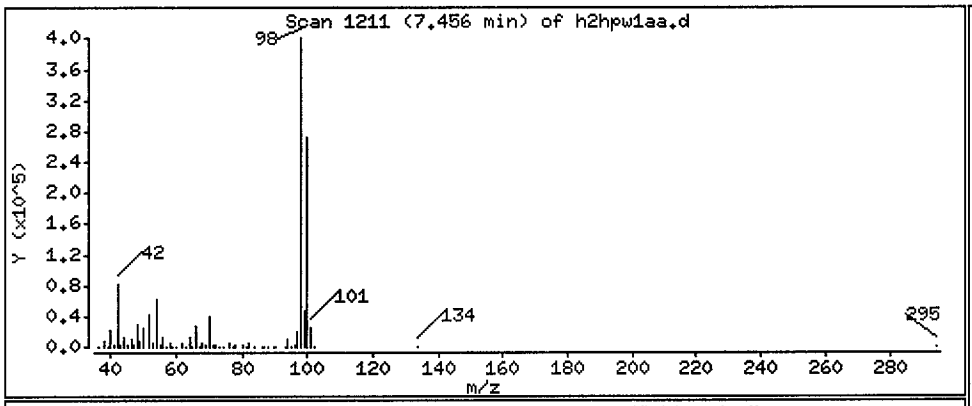
Operator: 063605

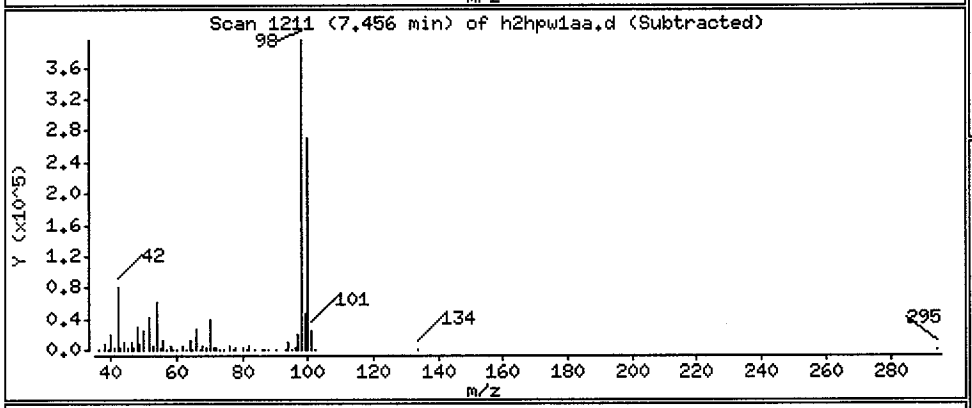
Column phase: J+W 624

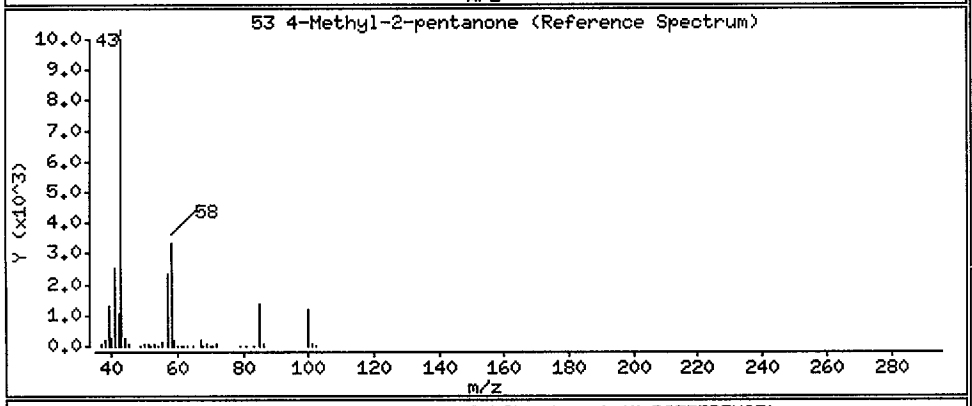
Column diameter: 0.18

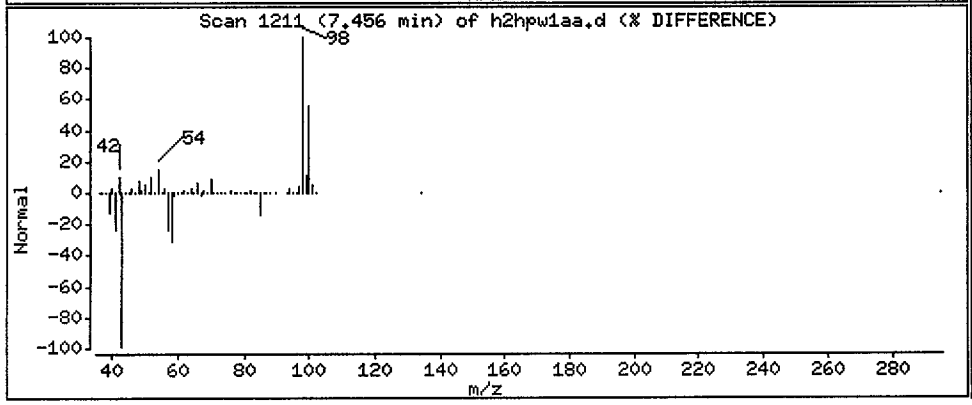
53 4-Methyl-2-pentanone

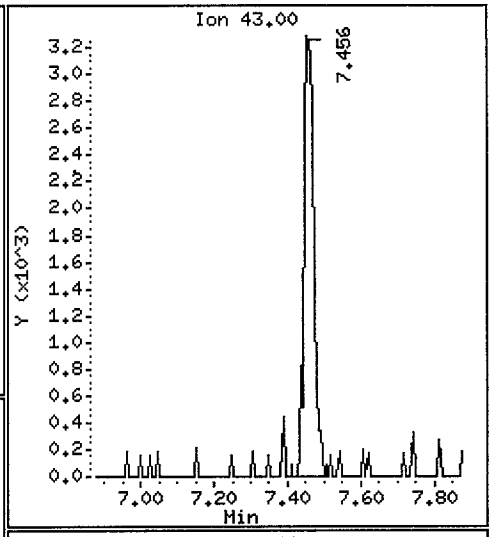
Concentration: 0.75014 ug/L

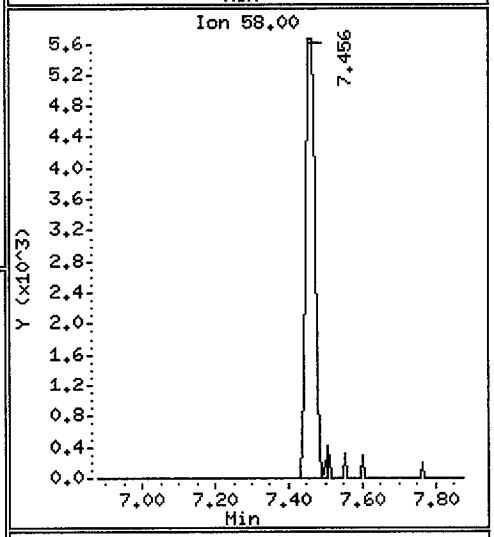


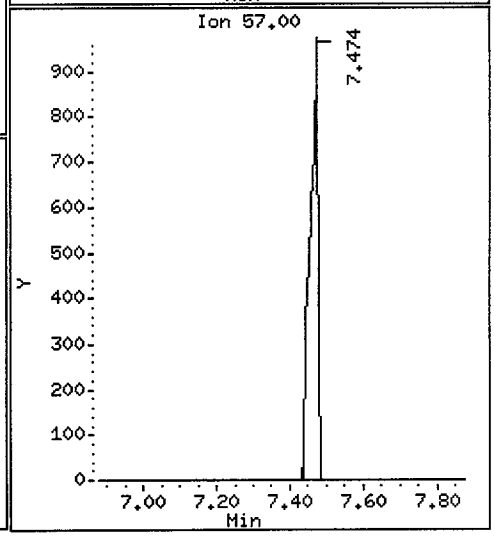












Data File: /chem/gcms/mz.i/Z040606.b/h2hpw1aa.d

Date : 06-APR-2006 16:46

Client ID: G-2897-R1-POTW DISC

Instrument: mz.i

Sample Info: H2HPW1AA,1,0,,

Purge Volume: 25.0

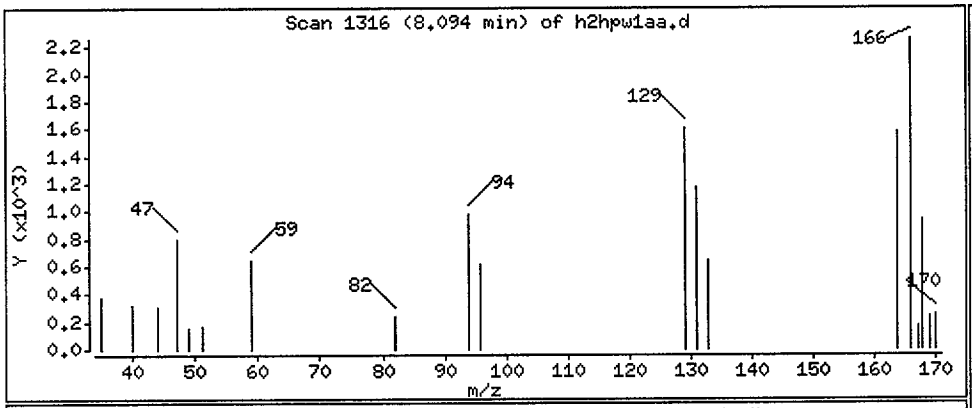
Operator: 063605

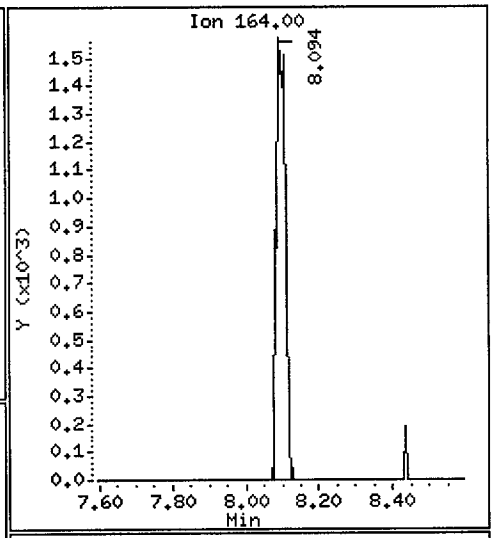
Column phase: J+W 624

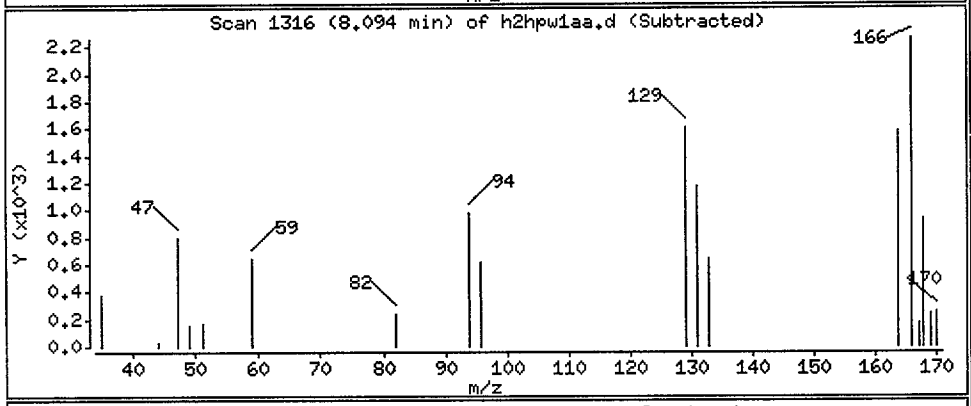
Column diameter: 0.18

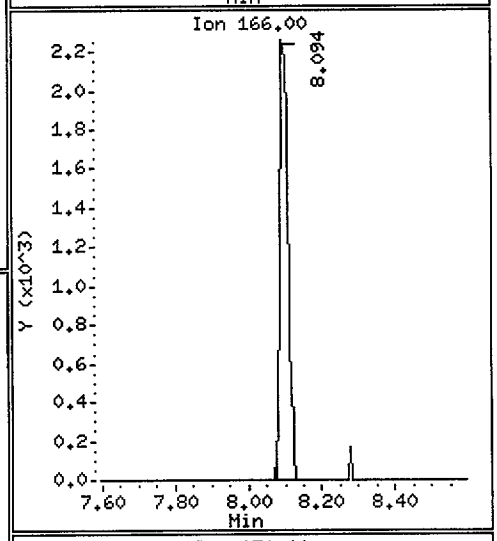
58 Tetrachloroethene

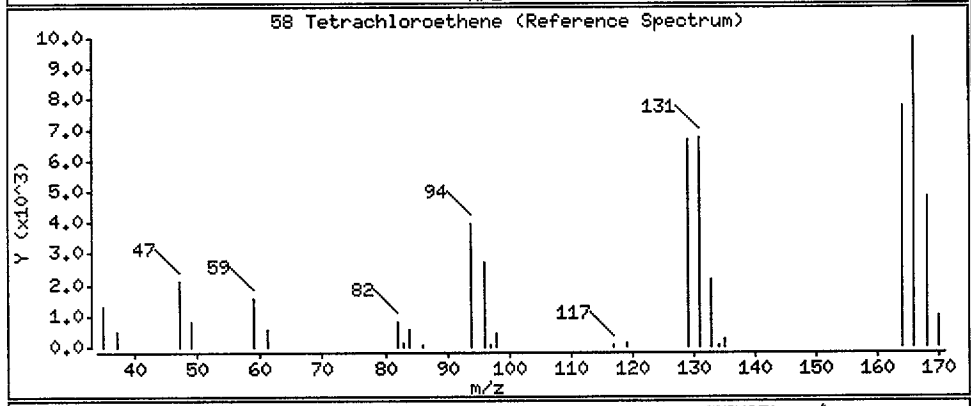
Concentration: 0.12564 ug/L

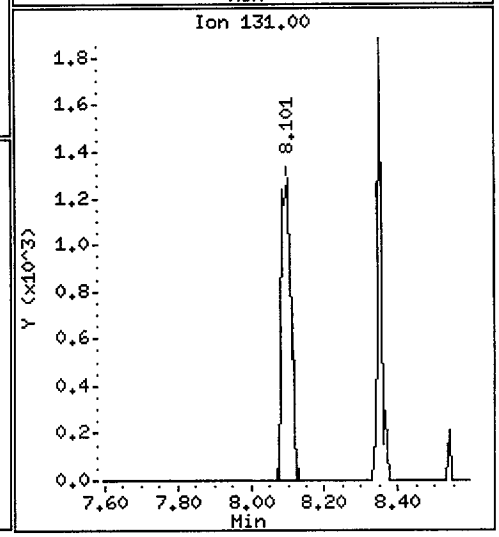


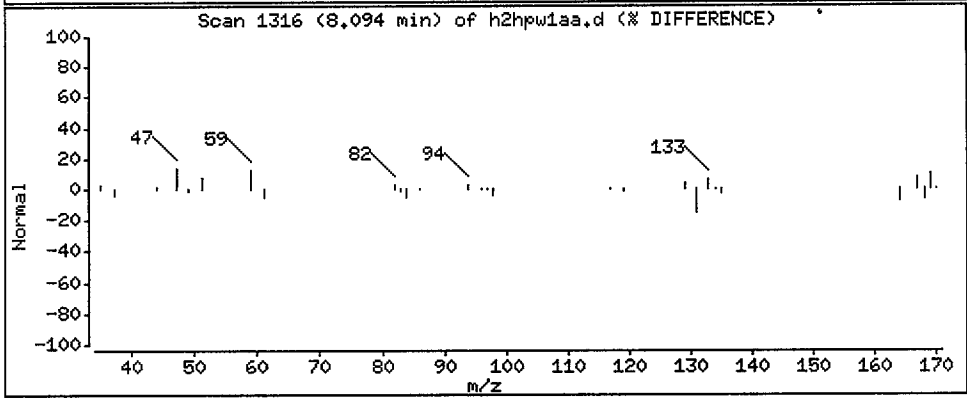












Data File: /chem/gcms/mz.i/Z040606.b/h2hpw1aa.d

Date : 06-APR-2006 16:46

Client ID: G-2897-R1-POTW DISC

Instrument: mz.i

Sample Info: H2HPW1AA,1,0,,

Purge Volume: 25.0

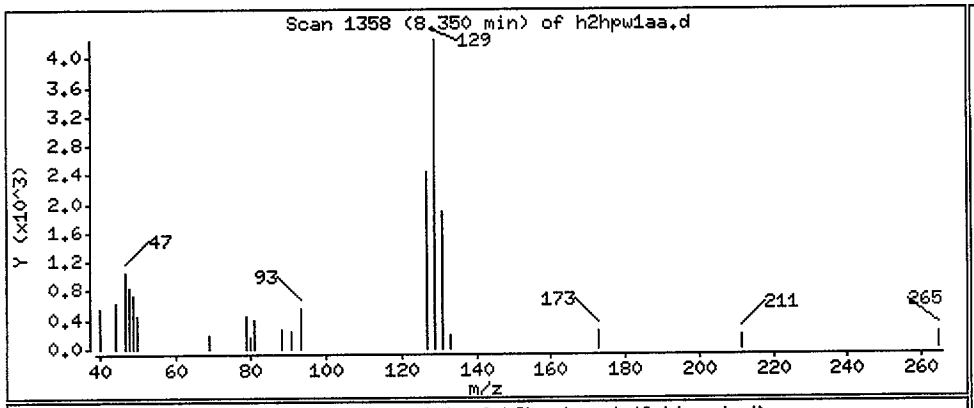
Operator: 063605

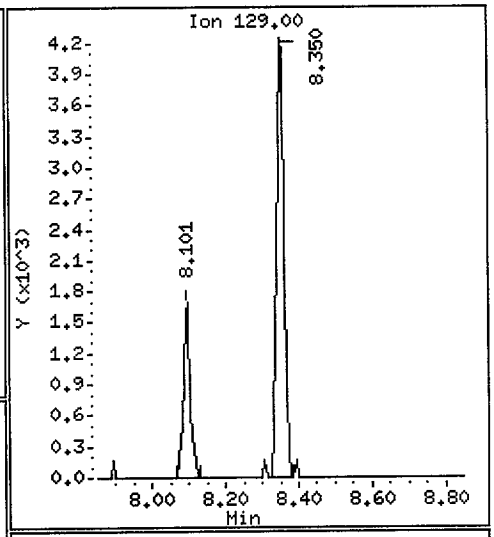
Column phase: J+W 624

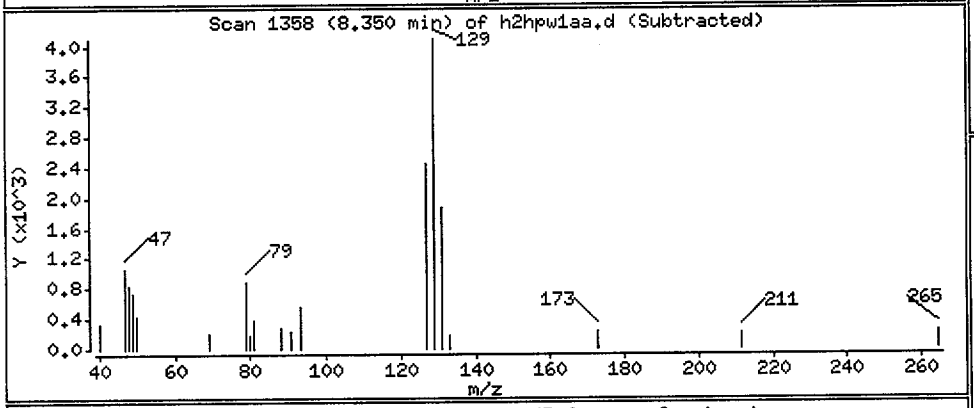
Column diameter: 0.18

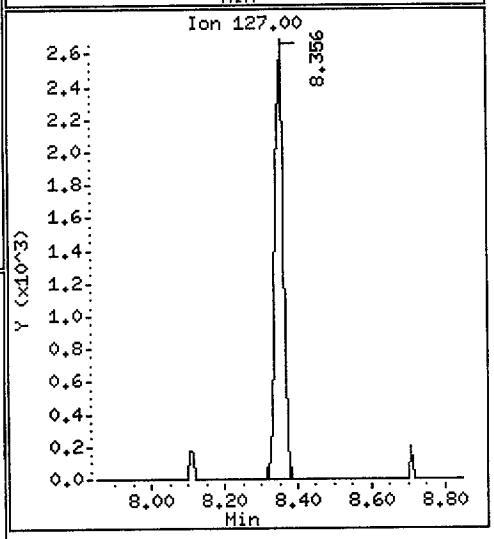
61 Chlorodibromomethane

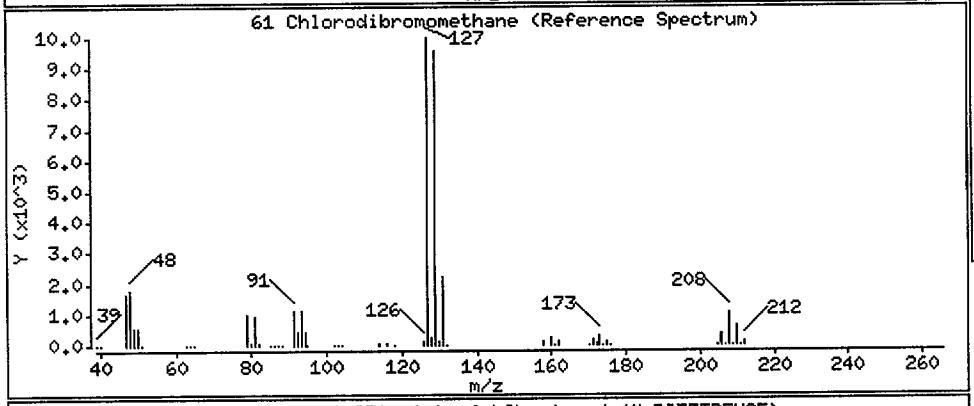
Concentration: 1.3861 ug/L

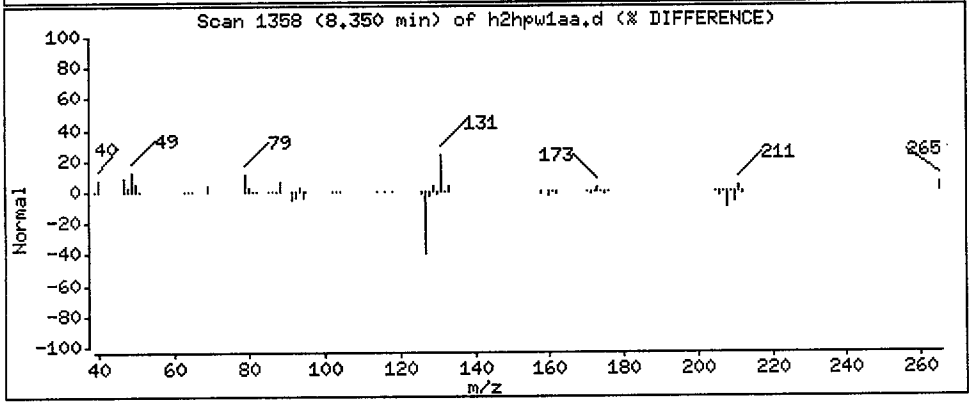












Data File: /chem/gcms/mz.i/Z040606.b/h2hpw1aa.d

Date : 06-APR-2006 16:46

Client ID: G-2897-R1-POTW DISC

Instrument: mz.i

Sample Info: H2HPW1AA,1,0,,

Purge Volume: 25.0

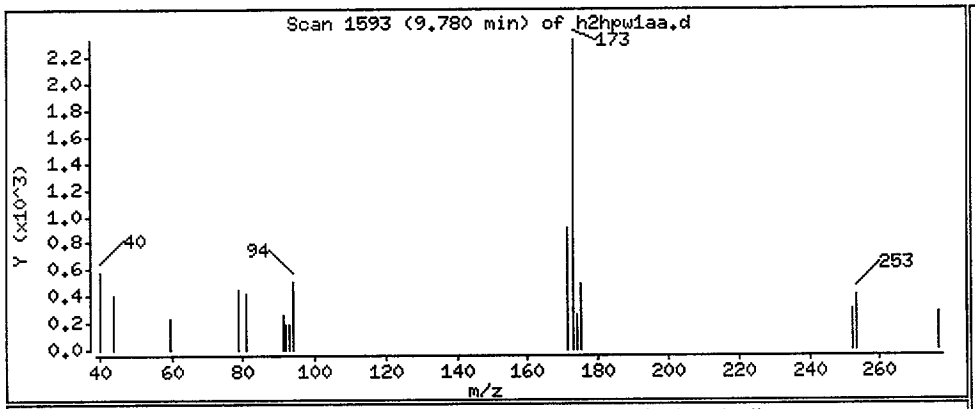
Operator: 063605

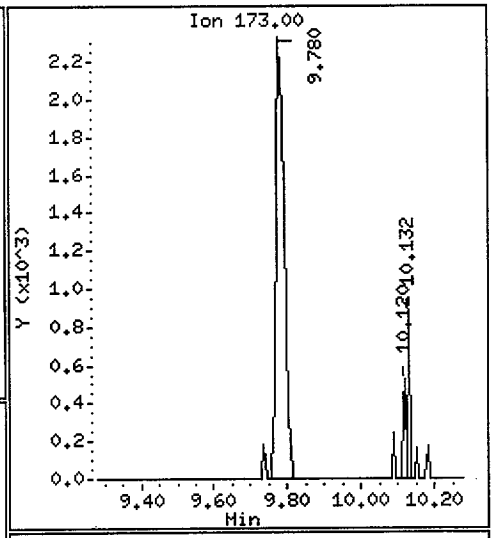
Column phase: J+W 624

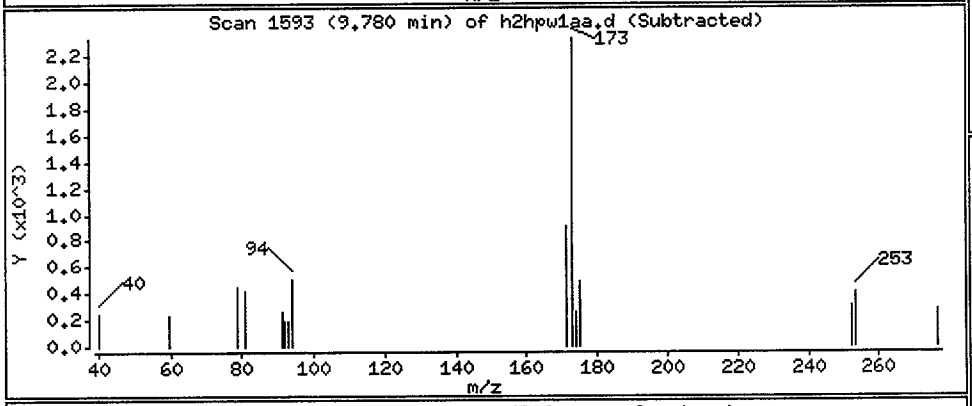
Column diameter: 0.18

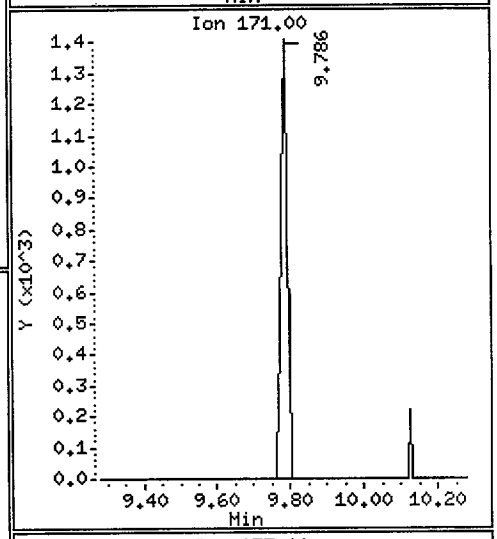
69 Bromoform (spcc)

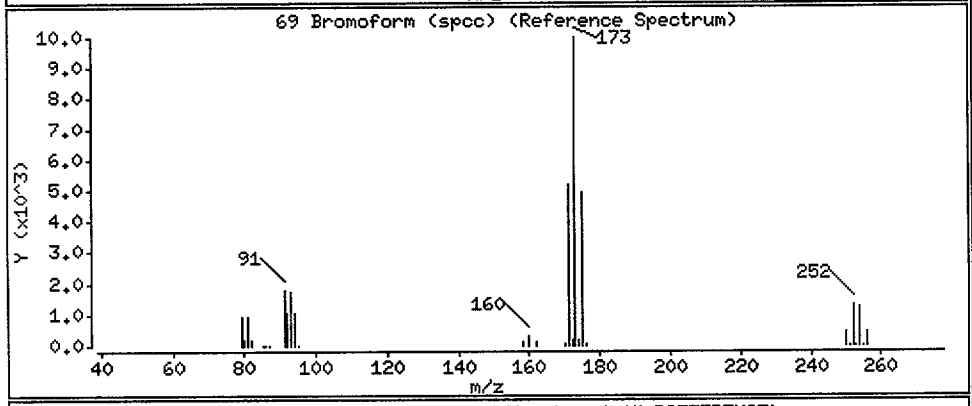
Concentration: 2.0240 ug/L

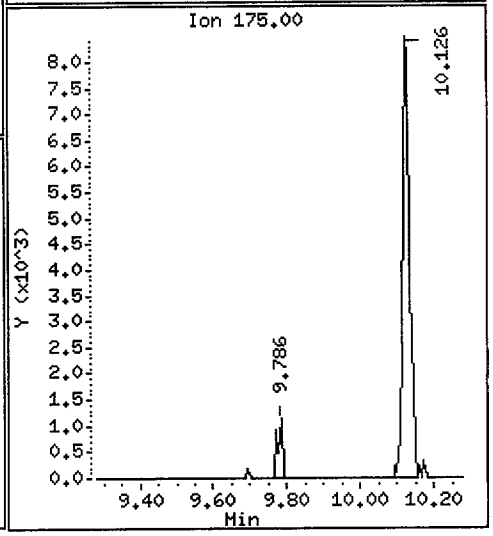


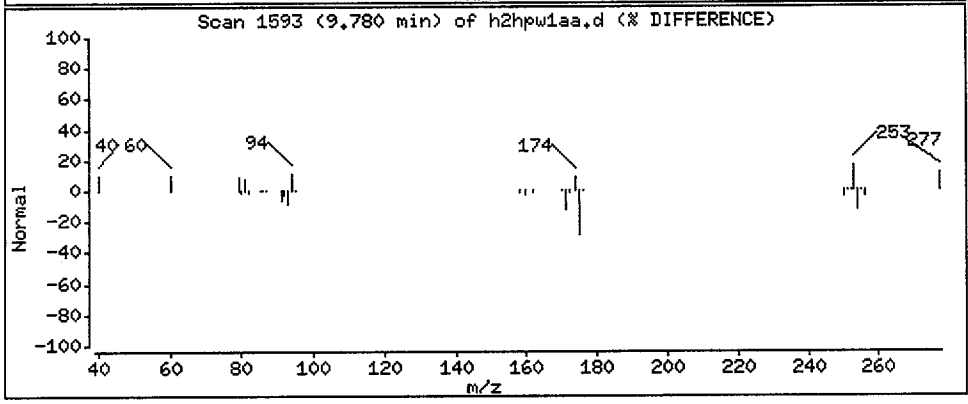












Data File: /var/chem/gcms/mz.i/Z040606.b/h2hpw1aa.d
Report Date: 07-Apr-2006 16:43

STL Knoxville

Volatile Organics by GC/MS

Data file : /var/chem/gcms/mz.i/Z040606.b/h2hpw1aa.d
Lab Smp Id: H2HPW1AA Client Smp ID: G-2897-R1-POTW DISC
Inj Date : 06-APR-2006 16:46
Operator : 063605 Inst ID: mz.i
Smp Info : H2HPW1AA,1,0,,
Misc Info : Z040606,8260B_LM,focus.sub
Comment : Volatile Organics by GC/MS
Method : /var/chem/gcms/mz.i/Z040606.b/8260B_LM.m
Meth Date : 07-Apr-2006 16:31 tillerm Quant Type: ISTD
Cal Date : 24-MAR-2006 13:51 Cal File: icvzc248.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: focus.sub
Target Version: 3.50
Processing Host: qmidhp01

Concentration Formula: Amt * DF * Uf*Vt/(Vo*1000) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Unit Correction factor
Vt	25000.00000	Sample Volume Purged
Vo	25.00000	Sample Volume Used

Cpnd Variable Local Compound Variable

ISTD	RT	HEIGHT	AMOUNT
* 1 Fluorobenzene	5.673	961868	10.000

		CONCENTRATIONS			QUANT		
RT	HEIGHT	ON-COL(ug/L)	FINAL(ug/L)	QUAL	LIBRARY	LIB ENTRY	CPND #
Carbon dioxide			CAS #: 124-38-9				
0.910	6088895	63.3028129	63.303	5	NIST05.1	80	1

MT 4/7/06

Data File: /var/chem/gcms/mz.i/Z040606.b/h2hpw1aa.d

Date : 06-APR-2006 16:46

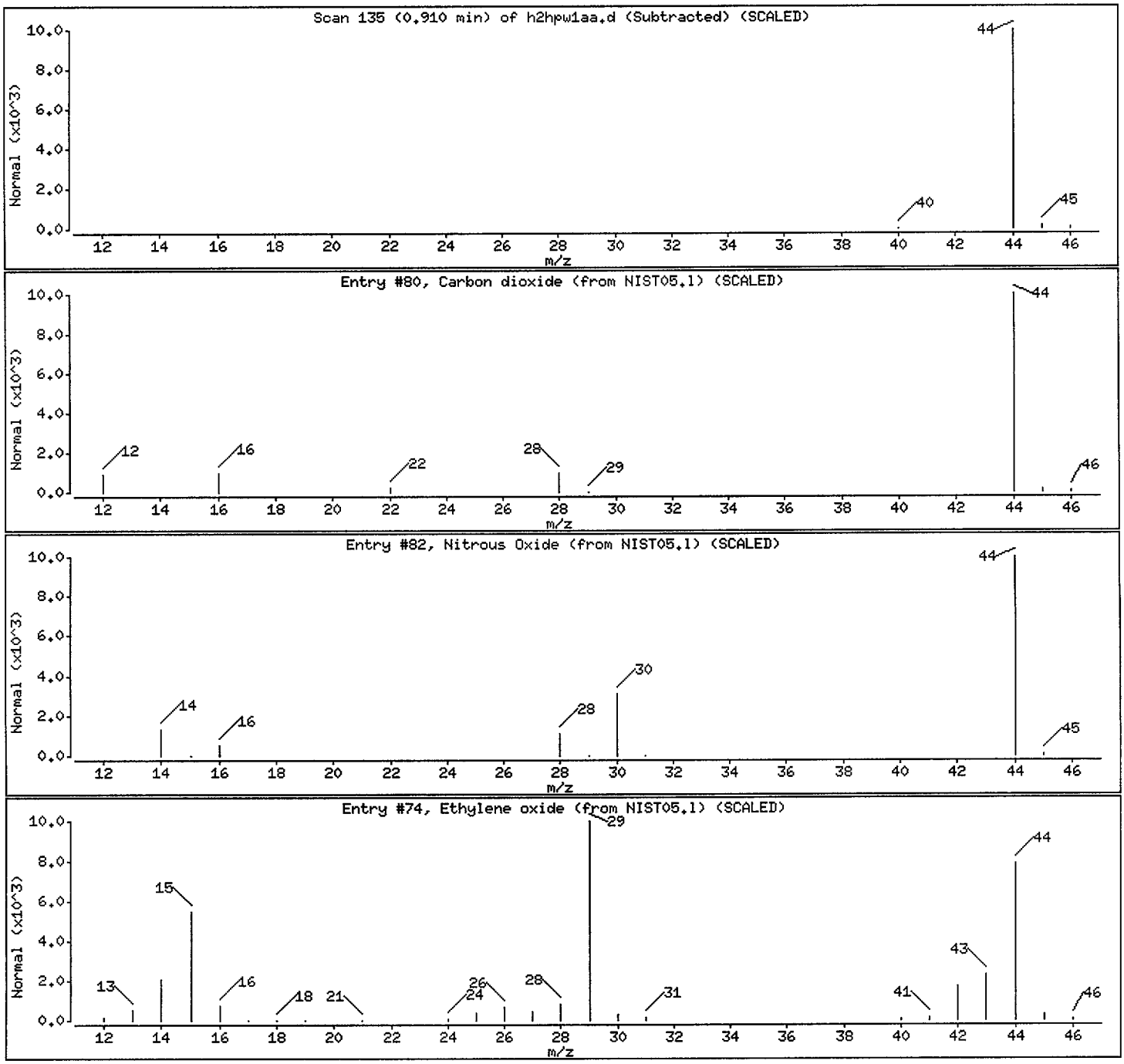
Client ID: G-2897-R1-POTW DISC Instrument: mz.i

Sample Info: H2HPW1AA,1,0,,

Purge Volume: 25.0 Operator: 063605

Column phase: J+W 624 Column diameter: 0.18

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Carbon dioxide	124-38-9	NIST05.1	80	5	CO2	44
Nitrous Oxide	10024-97-2	NIST05.1	82	3	N2O	44
Ethylene oxide	75-21-8	NIST05.1	74	2	C2H4O	44



STL Knoxville - ACS

Client Sample ID: G-2901-R1-CAUSTIC FEED

GC/MS Volatiles

Lot-Sample #...: H6D030205-004 **Work Order #...:** H2HP31AA **Matrix.....:** WATER
Date Sampled...: 03/28/06 **Date Received..:** 04/02/06
Prep Date.....: 04/06/06 **Analysis Date..:** 04/06/06
Prep Batch #...: 6096330
Dilution Factor: 1 **Method.....:** SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	**4.5 J**	**10**	**ug/L**	**1.4**
Acrylonitrile	ND	20	ug/L	2.7
Benzene	ND	1.0	ug/L	0.10
Bromobenzene	**0.18 J**	**1.0**	**ug/L**	**0.11**
Bromochloromethane	ND	1.0	ug/L	0.24
Bromodichloromethane	**0.86 J**	**1.0**	**ug/L**	**0.10**
Bromoform	**2.8**	**1.0**	**ug/L**	**0.14**
Bromomethane	ND	2.0	ug/L	0.38
2-Butanone	ND	5.0	ug/L	0.75
n-Butylbenzene	ND	1.0	ug/L	0.10
sec-Butylbenzene	ND	1.0	ug/L	0.10
tert-Butylbenzene	ND	1.0	ug/L	0.24
Carbon disulfide	ND	1.0	ug/L	0.10
Carbon tetrachloride	ND	1.0	ug/L	0.12
Chlorobenzene	ND	1.0	ug/L	0.10
Chlorodibromomethane	**1.0**	**1.0**	**ug/L**	**0.20**
Chloroethane	ND	2.0	ug/L	0.24
Chloroform	**0.17 J**	**1.0**	**ug/L**	**0.10**
Chloromethane	ND	2.0	ug/L	0.12
2-Chlorotoluene	ND	1.0	ug/L	0.24
4-Chlorotoluene	ND	1.0	ug/L	0.21
1,2-Dibromo-3-chloro-propane	ND	2.0	ug/L	0.45
1,2-Dibromoethane	ND	1.0	ug/L	0.24
Dibromomethane	ND	1.0	ug/L	0.21
1,2-Dichlorobenzene	ND	1.0	ug/L	0.10
1,3-Dichlorobenzene	ND	1.0	ug/L	0.10
1,4-Dichlorobenzene	ND	1.0	ug/L	0.12
Dichlorodifluoromethane	ND	2.0	ug/L	0.15
1,1-Dichloroethane	ND	1.0	ug/L	0.10
1,2-Dichloroethane	**0.13 J**	**1.0**	**ug/L**	**0.10**
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.12
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.10
1,1-Dichloroethene	ND	1.0	ug/L	0.10
1,2-Dichloropropane	ND	1.0	ug/L	0.10
1,3-Dichloropropane	ND	1.0	ug/L	0.17
2,2-Dichloropropane	ND	1.0	ug/L	0.11
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.10
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.11

(Continued on next page)

STL Knoxville - ACS

Client Sample ID: G-2901-R1-CAUSTIC FEED

GC/MS Volatiles

Lot-Sample #...: H6D030205-004 **Work Order #...:** H2HP31AA **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1-Dichloropropene	ND	1.0	ug/L	0.10
Ethylbenzene	ND	1.0	ug/L	0.10
Hexachlorobutadiene	ND	2.0	ug/L	0.12
2-Hexanone	ND	5.0	ug/L	0.76
Iodomethane	ND	2.0	ug/L	0.12
Isopropylbenzene	ND	1.0	ug/L	0.10
p-Isopropyltoluene	ND	1.0	ug/L	0.10
Methylene chloride	**0.53 J**	**2.0**	**ug/L**	**0.23**
4-Methyl-2-pentanone	ND	5.0	ug/L	0.40
Naphthalene	ND	1.0	ug/L	0.17
n-Propylbenzene	ND	1.0	ug/L	0.10
Styrene	ND	1.0	ug/L	0.10
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	0.12
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.15
Tetrachloroethene	ND	1.0	ug/L	0.10
Tetrahydrofuran	ND	4.0	ug/L	1.2
Toluene	ND	1.0	ug/L	0.10
1,2,3-Trichlorobenzene	ND	1.0	ug/L	0.23
1,2,4-Trichloro-benzene	ND	1.0	ug/L	0.15
1,1,1-Trichloroethane	ND	1.0	ug/L	0.10
1,1,2-Trichloroethane	ND	1.0	ug/L	0.25
Trichloroethene	**0.24 J**	**1.0**	**ug/L**	**0.10**
Trichlorofluoromethane	ND	2.0	ug/L	0.12
1,2,3-Trichloropropane	ND	1.0	ug/L	0.36
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	1.0	ug/L	0.13
1,2,4-Trimethylbenzene	ND	1.0	ug/L	0.11
1,3,5-Trimethylbenzene	ND	1.0	ug/L	0.10
Vinyl acetate	ND	2.0	ug/L	0.24
Vinyl chloride	ND	1.0	ug/L	0.24
m-Xylene & p-Xylene	ND	1.0	ug/L	0.20
o-Xylene	ND	1.0	ug/L	0.14
Xylenes (total)	ND	1.0	ug/L	0.30

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	136 *	(79 - 120)
1,2-Dichloroethane-d4	182 *	(71 - 127)
Toluene-d8	77 *	(80 - 120)
Bromofluorobenzene	92	(69 - 126)

NOTE(S):

* Surrogate recovery is outside stated control limits.

J Estimated result. Result is less than RL.

STL Knoxville - ACS

G-2901-R1-CAUSTIC FEED

GC/MS Volatiles

Lot-Sample #: H6D030205-004 **Work Order #:** H2HP31AA **Matrix:** WATER

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT	RETENTION TIME	UNITS
None				ug/L

Data File: /chem/gcms/mz.i/Z040606.b/h2hp31aa.d
Report Date: 06-Apr-2006 17:28

STL Knoxville

Volatile Organics by GC/MS

Data file : /chem/gcms/mz.i/Z040606.b/h2hp31aa.d
Lab Smp Id: H2HP31AA Client Smp ID: G-2901-R1-CAUSTIC F
Inj Date : 06-APR-2006 17:10
Operator : 063605 Inst ID: mz.i
Smp Info : H2HP3AA,1,0,,
Misc Info : Z040606,8260B_LM,focus.sub
Comment : Volatile Organics by GC/MS
Method : /var/chem/gcms/mz.i/Z040606.b/8260B_LM.m
Meth Date : 06-Apr-2006 15:29 tillerm Quant Type: ISTD
Cal Date : 24-MAR-2006 13:51 Cal File: icvzc248.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: focus.sub
Target Version: 3.50
Processing Host: qmidhp01

Concentration Formula: Amt * DF * Uf*Vt/(Vo*1000) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Unit Correction factor
Vt	25000.00000	Sample Volume Purged
Vo	25.00000	Sample Volume Used

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)
*	1 Fluorobenzene	96	5.669	5.667	(1.000)	962033	10.0000	
*	2 Chlorobenzene-d5	119	8.935	8.934	(1.000)	212360	10.0000	
*	3 1,4 Dichlorobenzene-d4	152	11.490	11.489	(1.000)	298871	10.0000	
$	5 1,2-Dichloroethane-d4	65	5.237	5.229	(0.924)	242904	18.2220	18.222(R)
$	4 Dibromofluoromethane	113	4.829	4.827	(0.852)	209861	13.6139	13.614(R)
$	6 Toluene-d8	98	7.463	7.461	(0.835)	720018	7.71663	7.7166(R)
$	7 4-Bromofluorobenzene	95	10.128	10.120	(0.881)	278287	9.23276	9.2328
	15 Bromomethane	94	1.416	1.408	(0.250)	471	~~0.88026~~	~~0.88026~~
	22 Acetone	43	2.128	2.126	(0.375)	6993	4.50975	4.5098
	23 *Iodomethane	142	2.207	2.181	(0.389)	985	0.56154	0.56154
	27 Methylene Chloride	84	2.511	2.510	(0.443)	8484	0.52733	0.52733
	40 Chloroform (ccc)	83	4.616	4.614	(0.814)	5886	0.16935	0.16935
	45 1,2-Dichloroethane	62	5.334	5.326	(0.941)	2658	0.13232	0.13232
	46 Trichloroethene	130	6.113	6.111	(1.078)	6446	0.24156	0.24156

Data File: /chem/gcms/mz.i/Z040606.b/h2hp31aa.d
Report Date: 06-Apr-2006 17:28

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)
50 Bromodichloromethane	83	6.691	6.689	(1.180)	2308	0.86241	0.86241
53 4-Methyl-2-pentanone	43	7.463	7.376	(1.317)	6067	~~0.72221~~	~~0.72220~~
55 trans-1,3-Dichloropropene	75	7.457	7.784	(0.835)	170	~~0.63414~~	~~0.63414~~
61 Chlorodibromomethane	129	8.351	8.350	(0.935)	3026	1.04178	1.0418
69 Bromoform (spcc)	173	9.781	9.779	(1.095)	6958	2.83685	2.8368
72 Bromobenzene	156	10.255	10.254	(1.148)	3537	0.17835	0.17835

MT 4/10/06

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

Data File: /chem/gcms/mz.i/Z040606.b/h2hp31aa.d
Report Date: 06-Apr-2006 17:28

STL Knoxville

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: mz.i
Lab File ID: h2hp31aa.d
Lab Smp Id: H2HP31AA
Analysis Type: VOA
Quant Type: ISTD
Operator: 063605
Method File: /var/chem/gcms/mz.i/Z040606.b/8260B_LM.m
Misc Info: Z040606,8260B_LM,focus.sub

Calibration Date: 06-APR-2006
Calibration Time: 13:58
Client Smp ID: G-2901-R1-CAUSTIC F
Level: LOW
Sample Type: WATER

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	938680	469340	1877360	962033	2.49
2 Chlorobenzene-d5	169233	84616	338466	212360	25.48
3 1,4 Dichlorobenze	201373	100686	402746	298871	48.42

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	5.67	5.17	6.17	5.67	0.03
2 Chlorobenzene-d5	8.93	8.43	9.43	8.94	0.02
3 1,4 Dichlorobenze	11.49	10.99	11.99	11.49	0.01

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

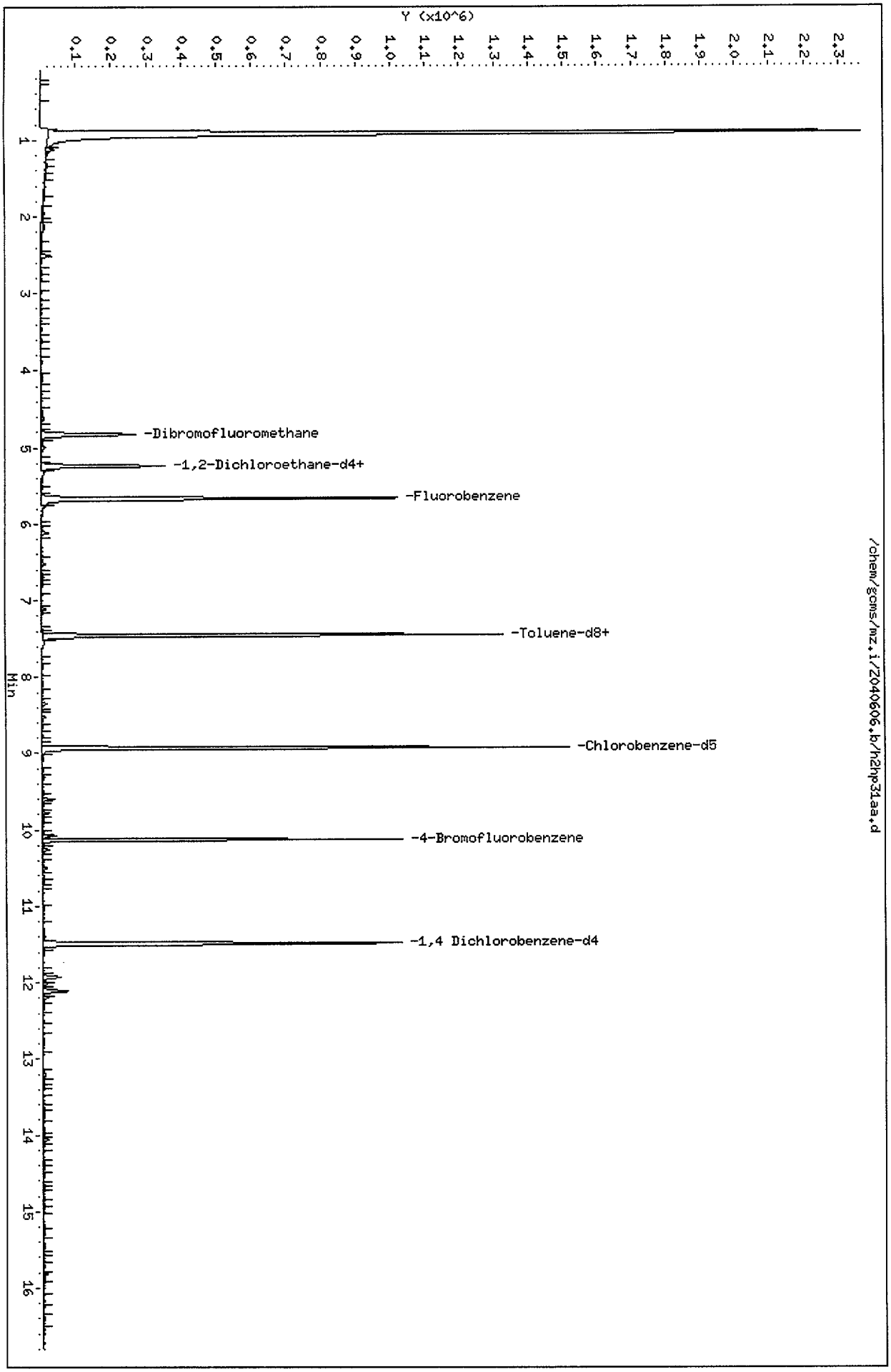
Data File: /chem/gcms/mz.i/Z040606.b/h2hp31aa.d
Report Date: 06-Apr-2006 17:28

STL Knoxville

RECOVERY REPORT

Client Name: STL Knoxville - ACS
Client SDG: H6D030205
Sample Matrix: LIQUID
Fraction: VOA
Lab Smp Id: H2HP31AA
Client Smp ID: G-2901-R1-CAUSTIC F
Level: LOW
Operator: 063605
Data Type: MS DATA
SampleType: SAMPLE
SpikeList File: allcmpds.spk
Quant Type: ISTD
Sublist File: focus.sub
Method File: /var/chem/gcms/mz.i/Z040606.b/8260B_LM.m
Misc Info: Z040606,8260B_LM,focus.sub

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
$ 5 1,2-Dichloroethane	10.000	18.222	182.22*	71-127
$ 4 Dibromofluorometha	10.000	13.614	136.14*	79-120
$ 6 Toluene-d8	10.000	7.7166	77.17*	80-120
$ 7 4-Bromofluorobenze	10.000	9.2328	92.33	69-126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Date : 06-APR-2006 17:10
Client ID: G-2901-R1-CAUSTIC F
Sample Info: H2HP7AA,1.0,,
Purge Volume: 25.0
Column phase: J+W 624
Instrument: mz.i
Operator: 063605
Column diameter: 0.18
Y (x10^6)
-Dibromofluoromethane
-1,2-Dichloroethane-d4+
-Fluorobenzene
-Toluene-d8+
-Chlorobenzene-d5
-4-Bromofluorobenzene
-1,4 Dichlorobenzene-d4
/chem/gcms/mz.i/Z040606.b/h2hp31aa.d
Min

Data File: /chem/gcms/mz.i/Z040606.b/h2hp31aa.d

Date : 06-APR-2006 17:10

Client ID: G-2901-R1-CAUSTIC F

Instrument: mz.i

Sample Info: H2HP3AA,1,0,,

Purge Volume: 25.0

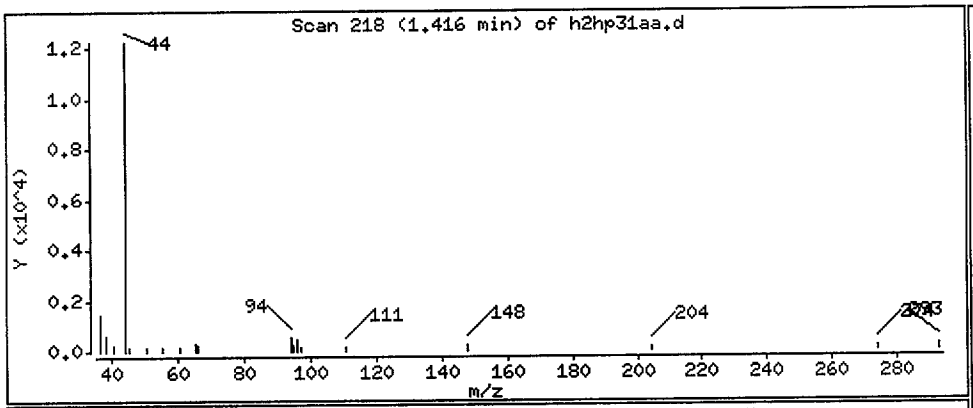
Operator: 063605

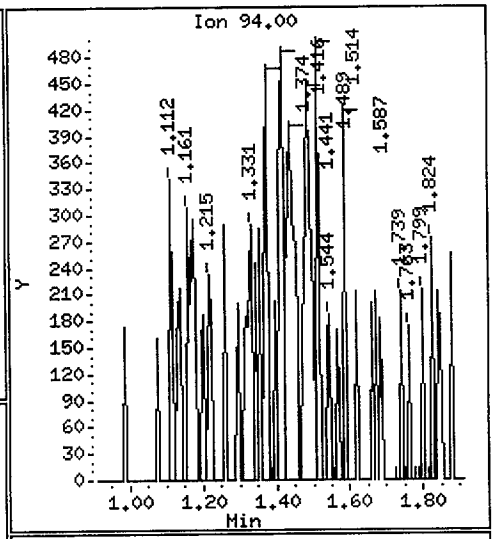
Column phase: J+W 624

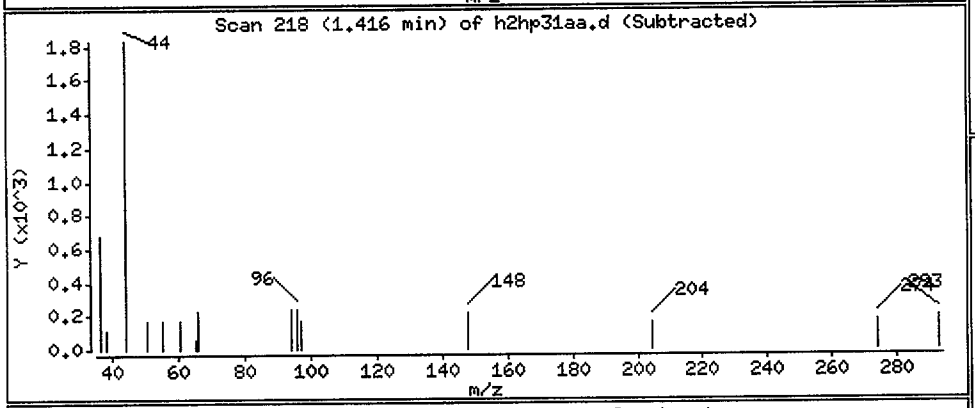
Column diameter: 0.18

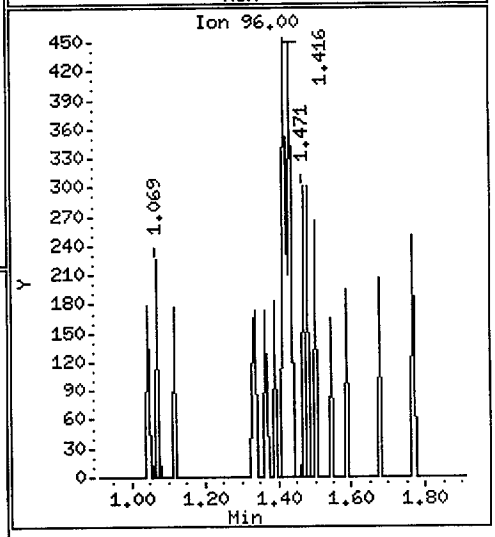
15 Bromomethane

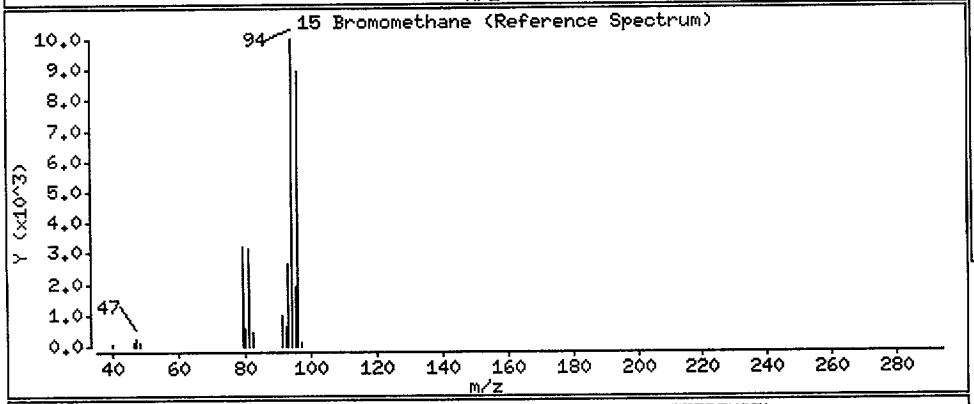
Concentration: 0.88026 ug/L

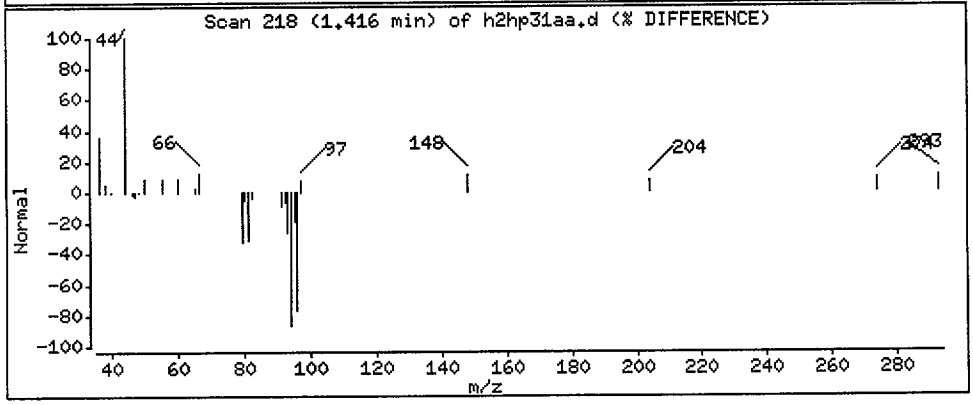












Data File: /chem/gcms/mz.i/Z040606.b/h2hp31aa.d

Date : 06-APR-2006 17:10

Client ID: G-2901-R1-CAUSTIC F

Instrument: mz.i

Sample Info: H2HP3AA,1,0,,

Purge Volume: 25.0

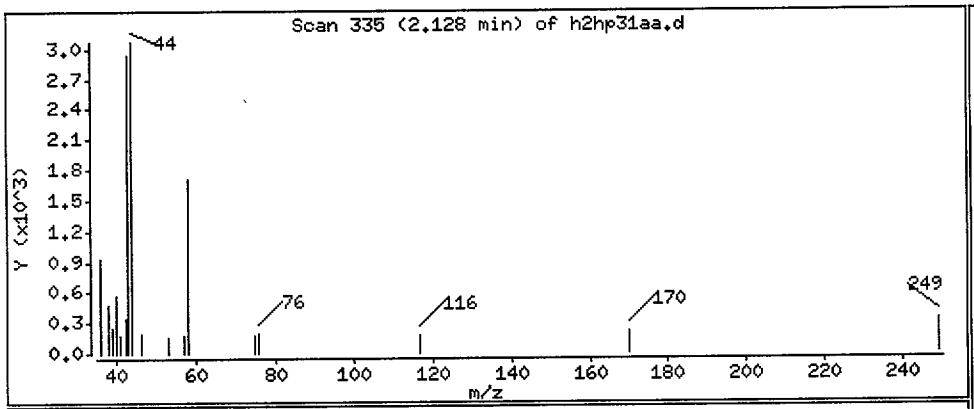
Operator: 063605

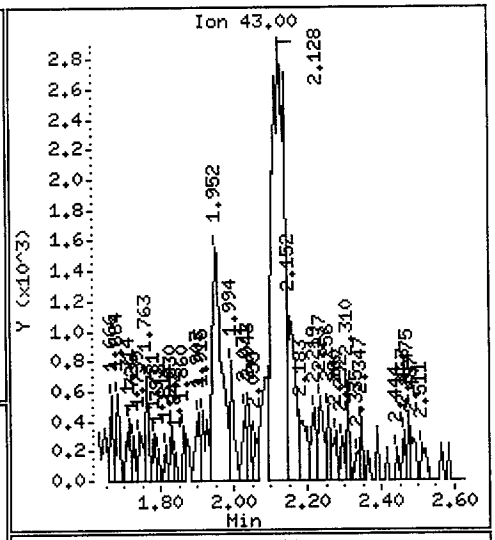
Column phase: J+W 624

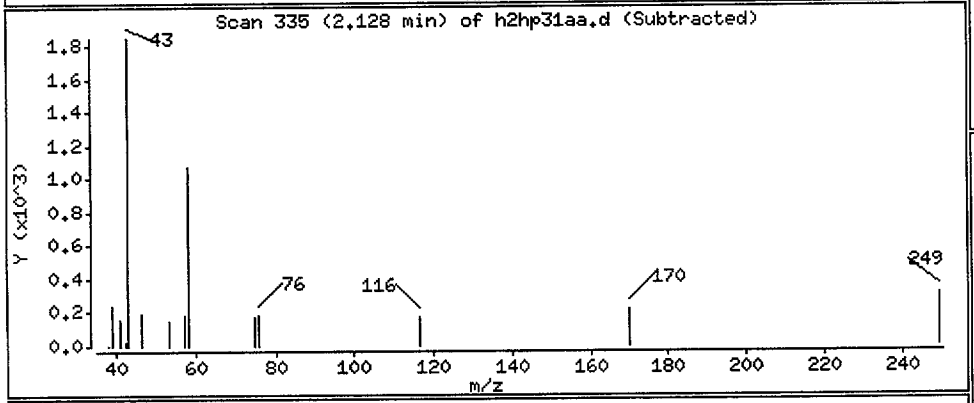
Column diameter: 0.18

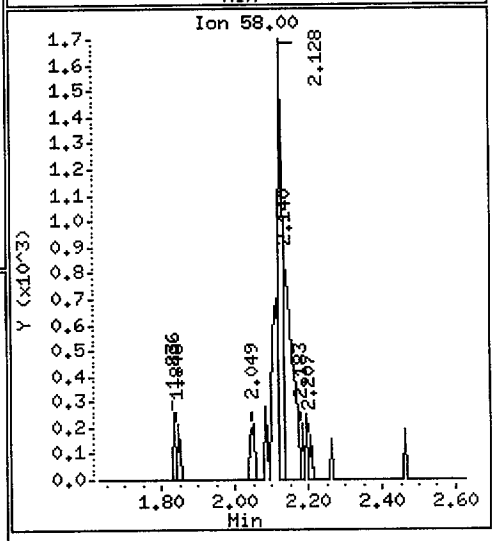
22 Acetone

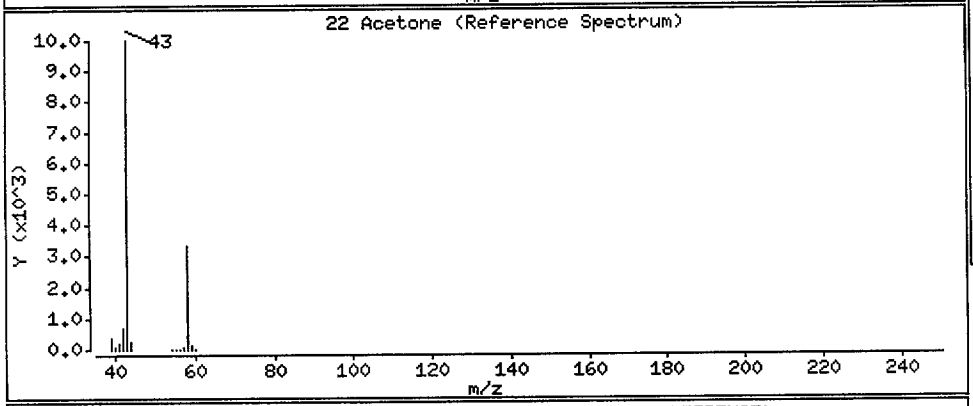
Concentration: 4.5098 ug/L

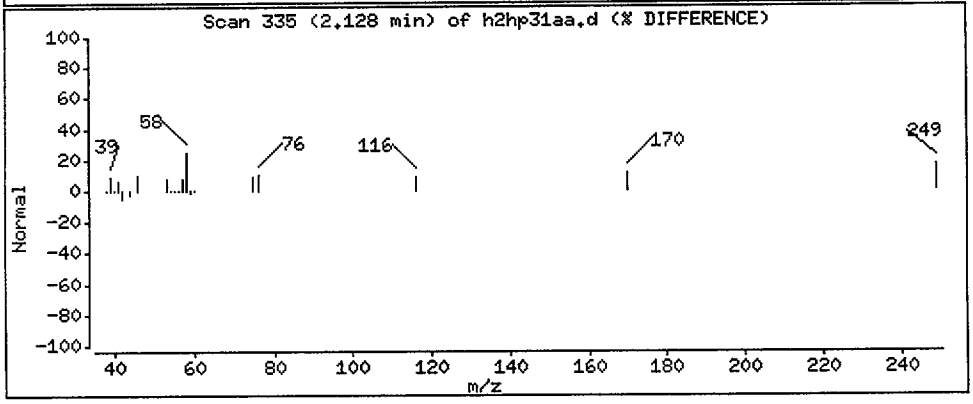












Data File: /chem/gcms/mz.i/Z040606.b/h2hp31aa.d

Date : 06-APR-2006 17:10

Client ID: G-2901-R1-CAUSTIC F

Instrument: mz.i

Sample Info: H2HP3AA,1,0,,

Purge Volume: 25.0

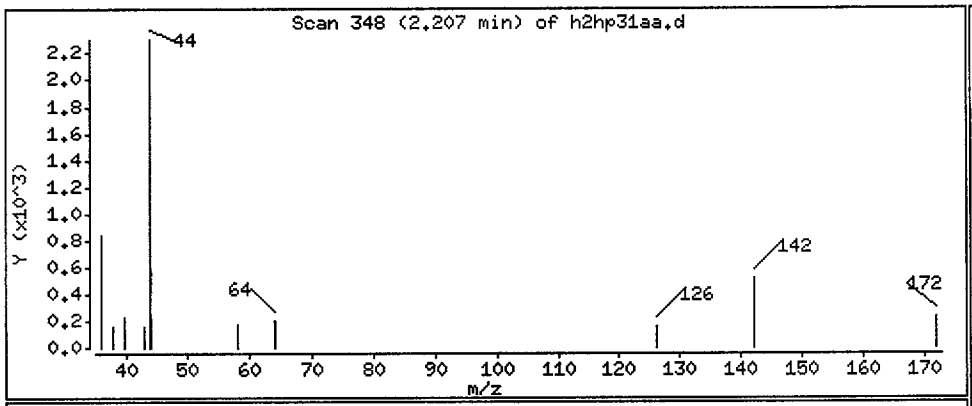
Operator: 063605

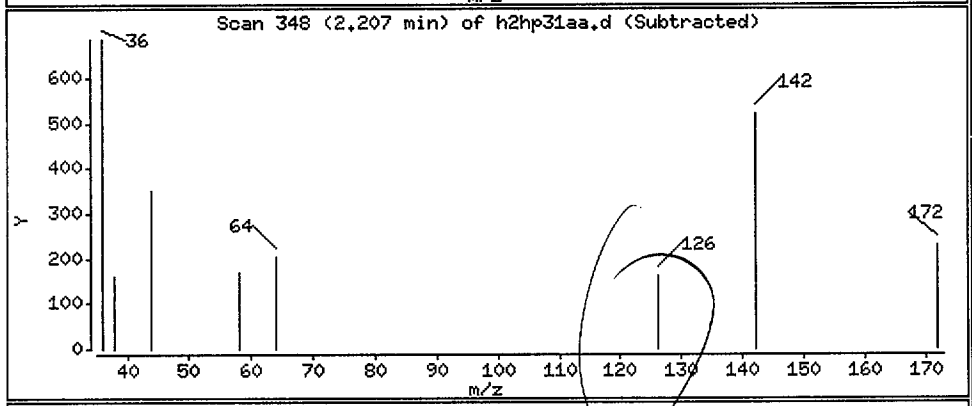
Column phase: J+W 624

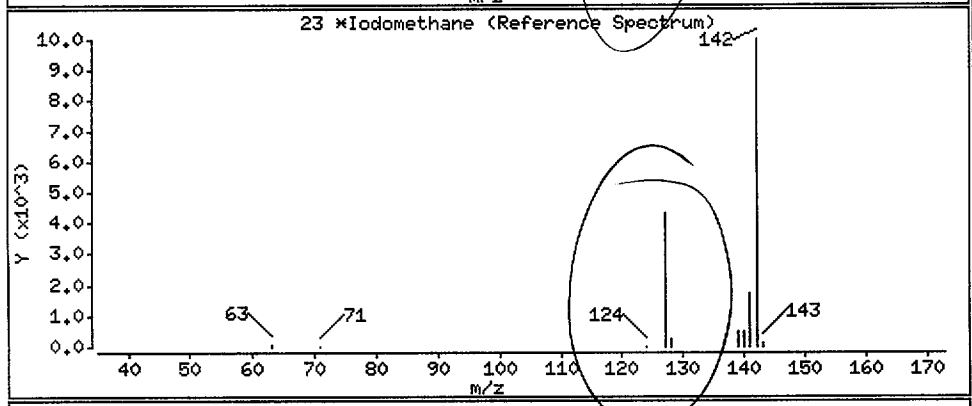
Column diameter: 0.18

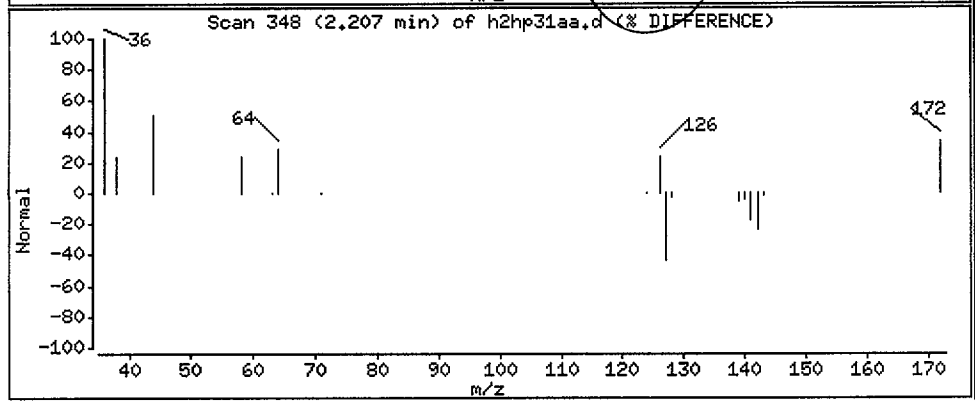
23 *Iodomethane

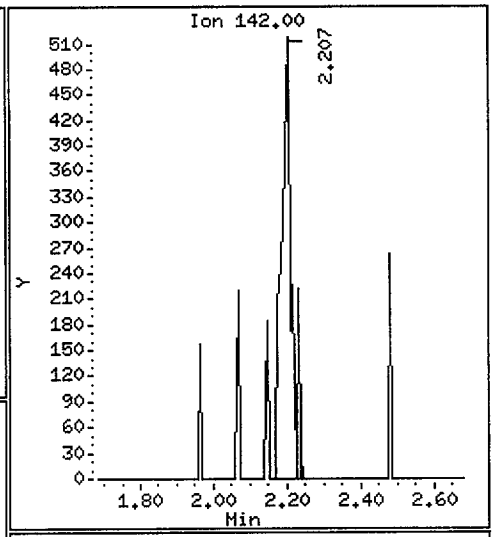
Concentration: 0.56154 ug/L

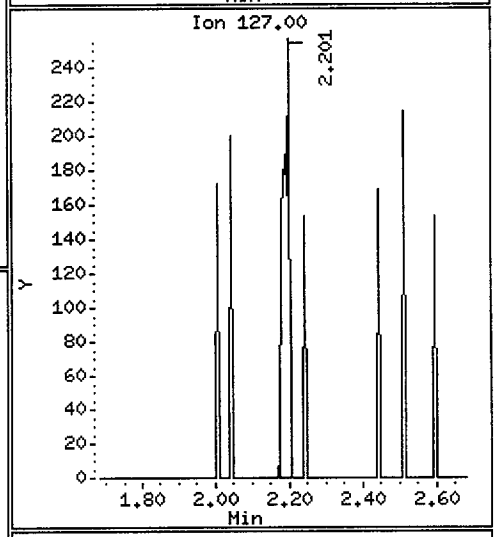


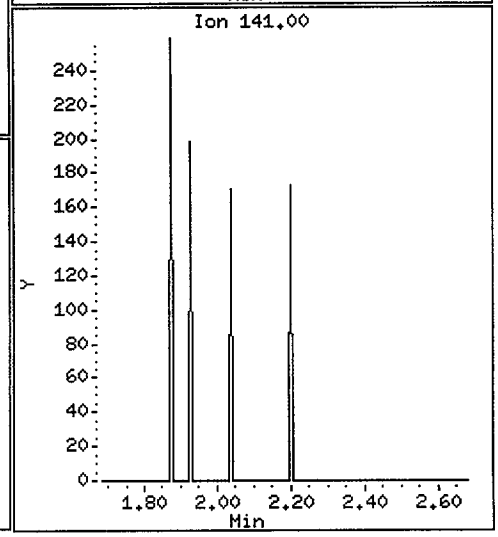












Data File: /chem/gcms/mz.i/Z040606.b/h2hp31aa.d

Date : 06-APR-2006 17:10

Client ID: G-2901-R1-CAUSTIC F

Instrument: mz.i

Sample Info: H2HP3AA,1,0,,

Purge Volume: 25.0

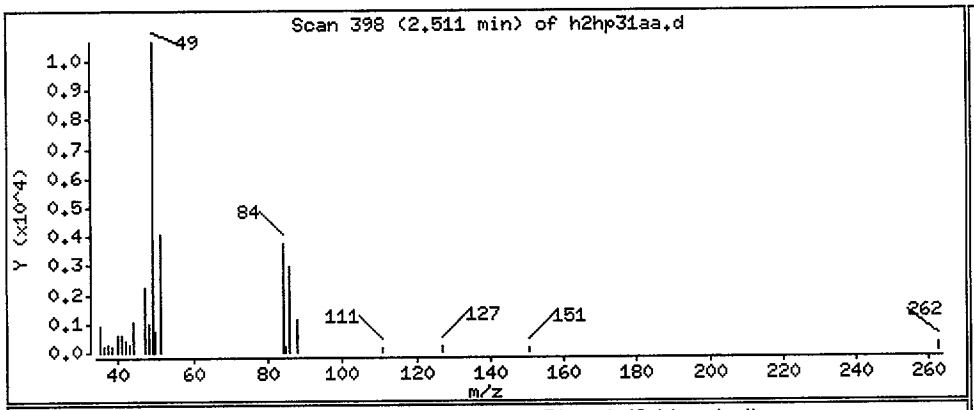
Operator: 063605

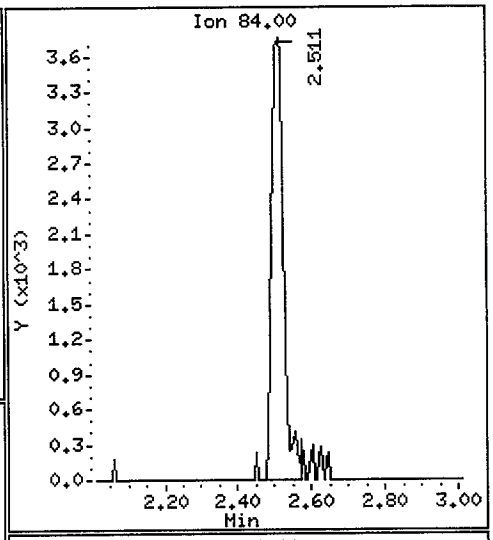
Column phase: J+W 624

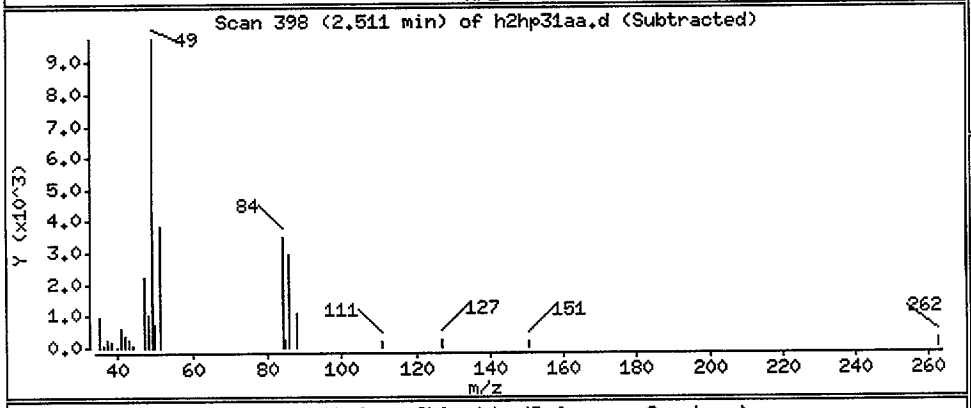
Column diameter: 0.18

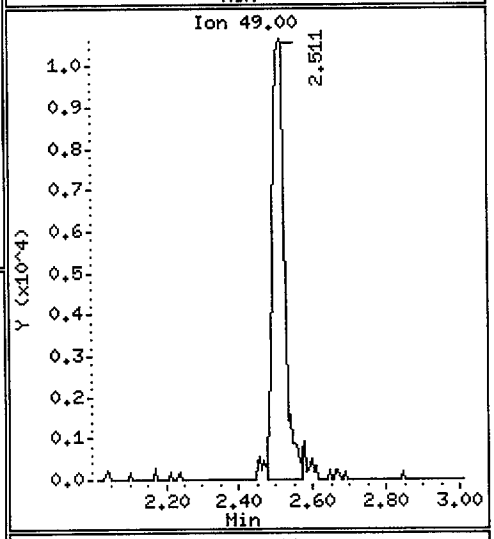
27 Methylene Chloride

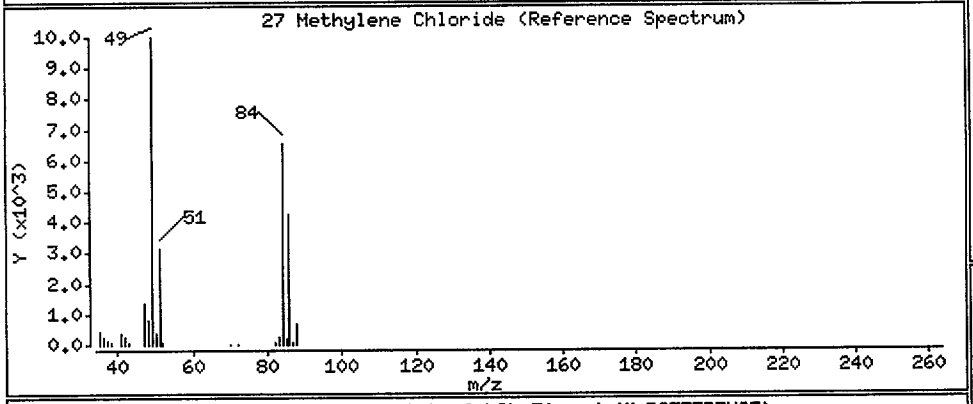
Concentration: 0.52733 ug/L

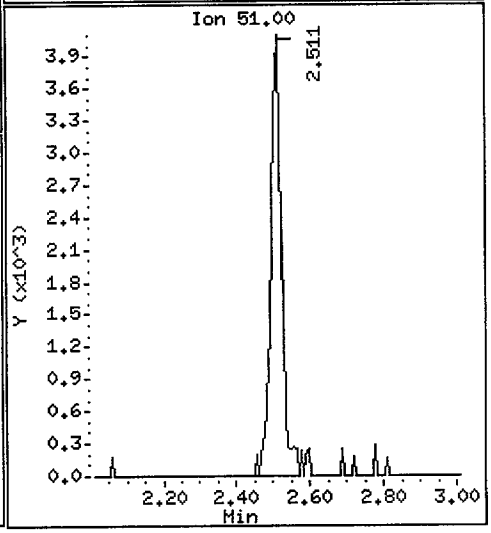


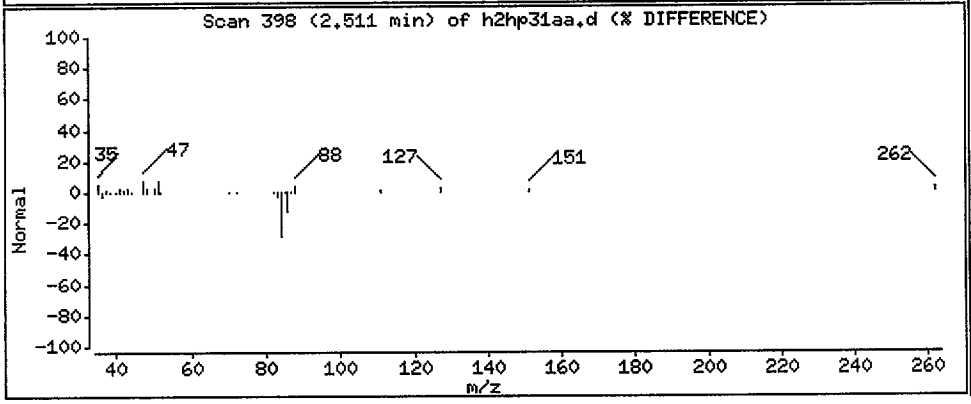












Data File: /chem/gcms/mz.i/Z040606.b/h2hp31aa.d

Date : 06-APR-2006 17:10

Client ID: G-2901-R1-CAUSTIC F

Instrument: mz.i

Sample Info: H2HP3AA,1,0,,

Purge Volume: 25.0

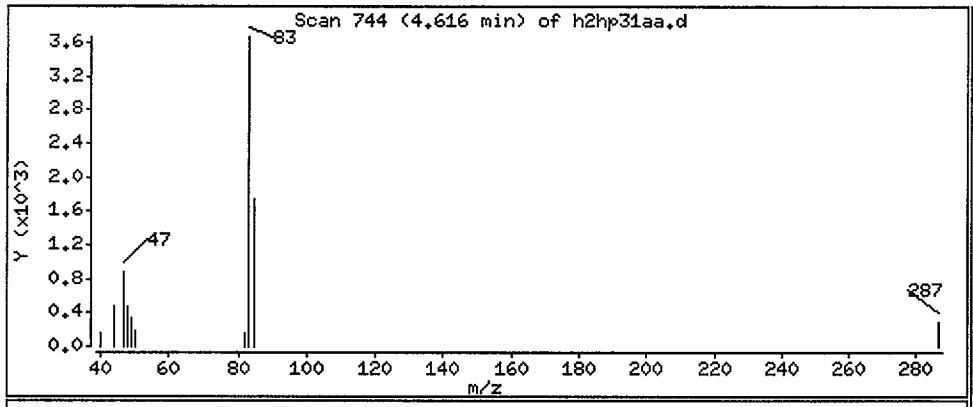
Operator: 063605

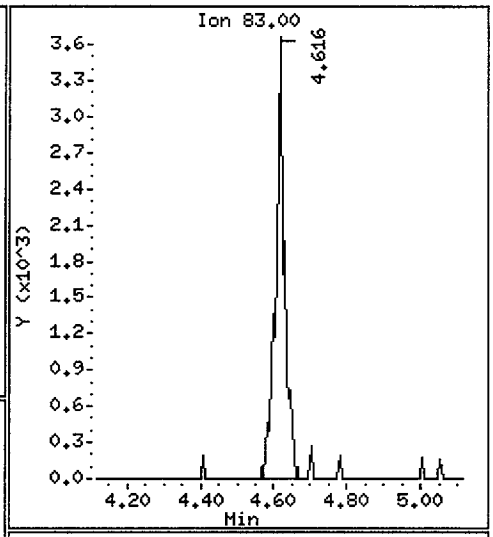
Column phase: J+W 624

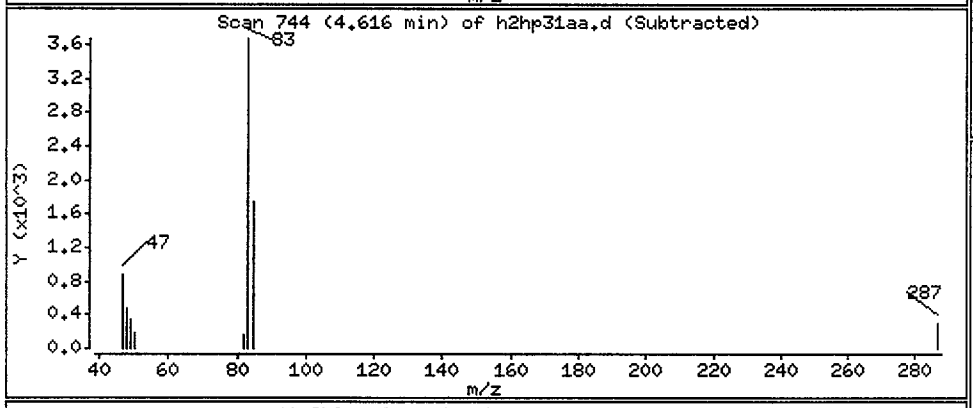
Column diameter: 0.18

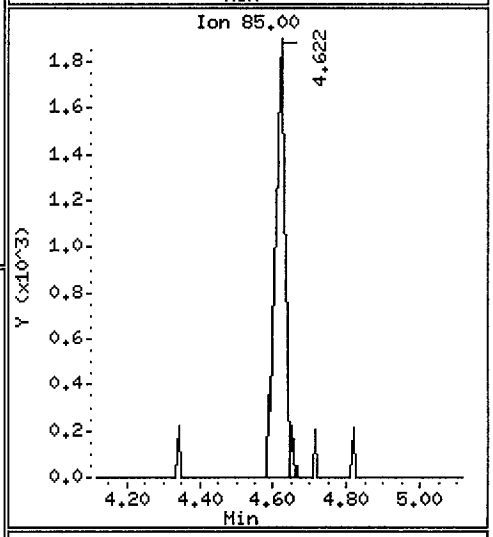
40 Chloroform (ccc)

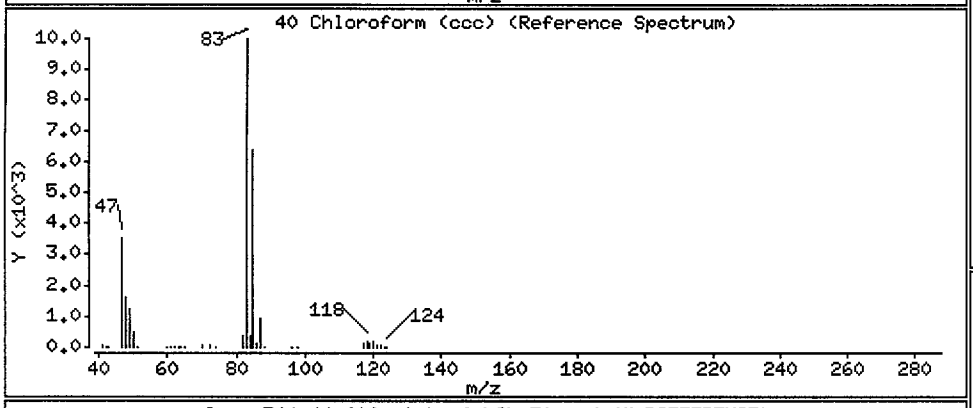
Concentration: 0.16935 ug/L

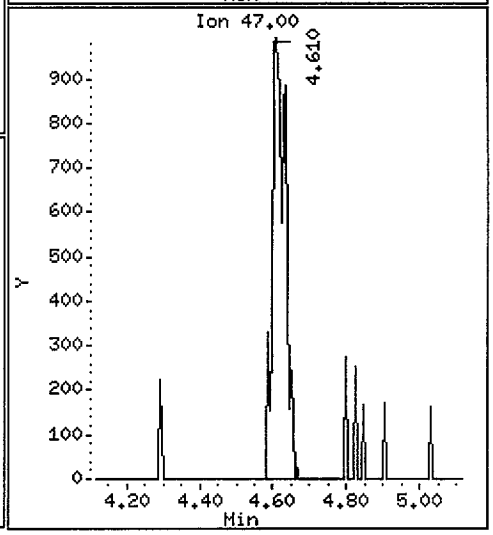


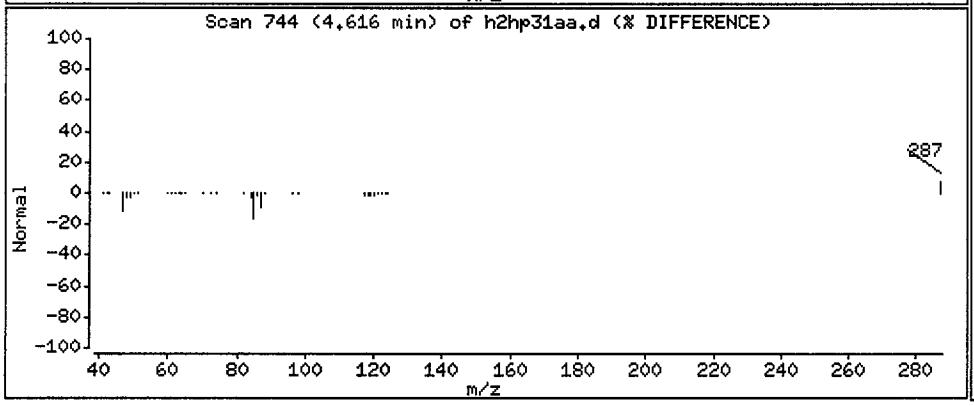












Data File: /chem/gcms/mz.i/Z040606.b/h2hp31aa.d

Date : 06-APR-2006 17:10

Client ID: G-2901-R1-CAUSTIC F

Instrument: mz.i

Sample Info: H2HP3AA,1,0,,

Purge Volume: 25.0

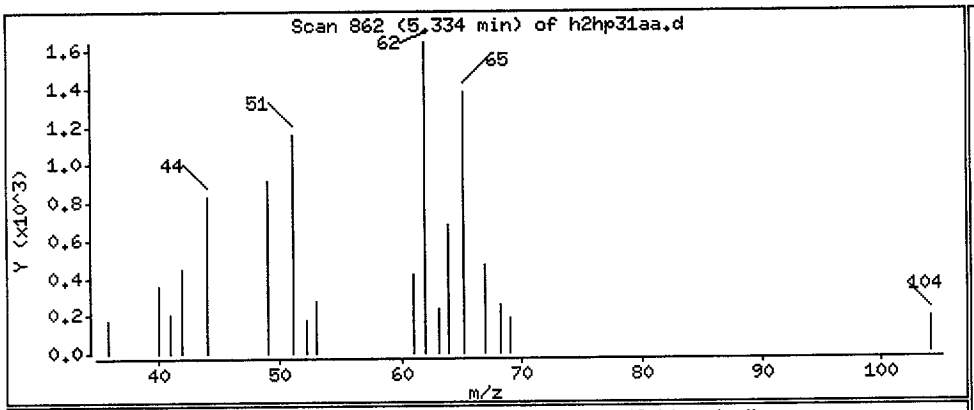
Operator: 063605

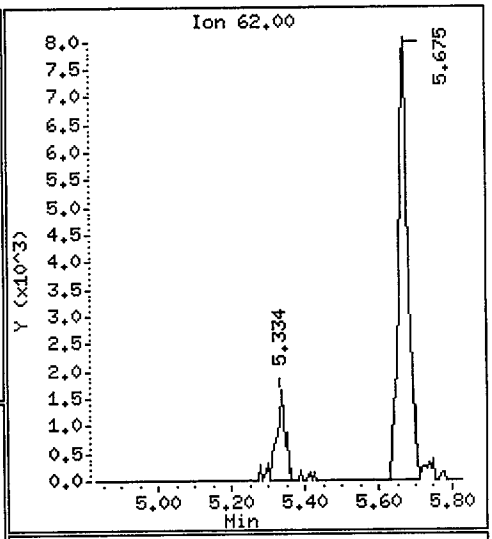
Column phase: J+W 624

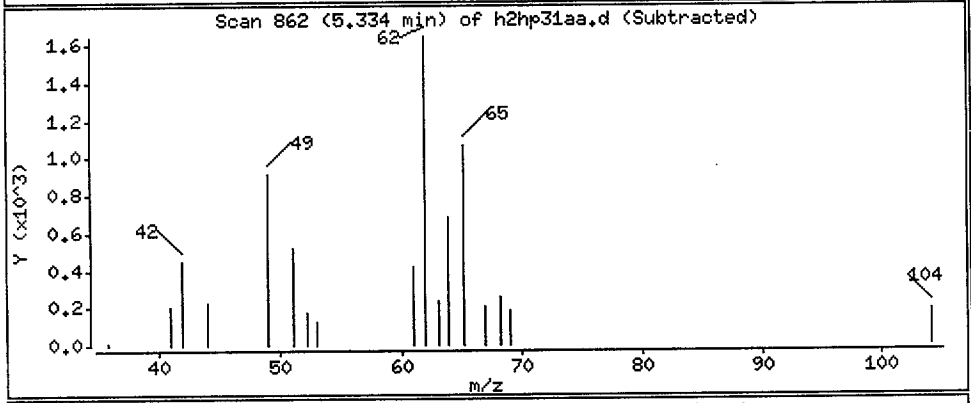
Column diameter: 0.18

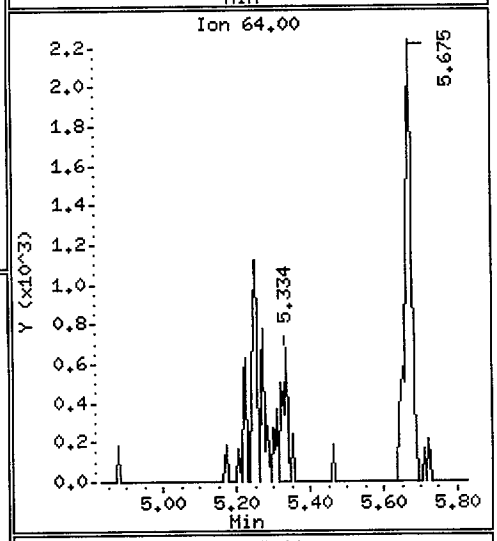
45 1,2-Dichloroethane

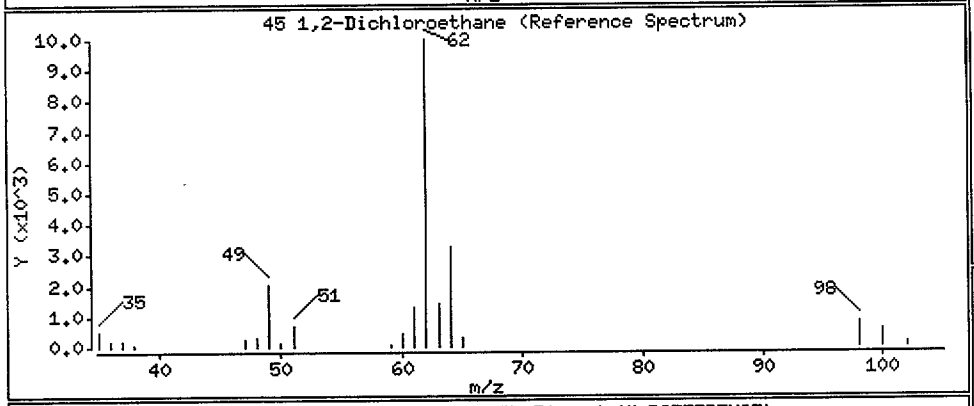
Concentration: 0.13232 ug/L

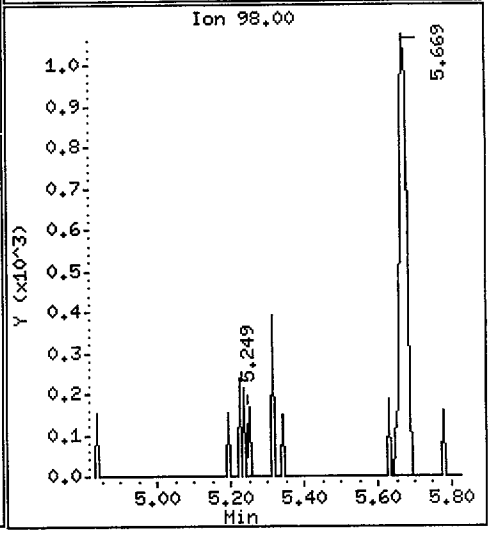


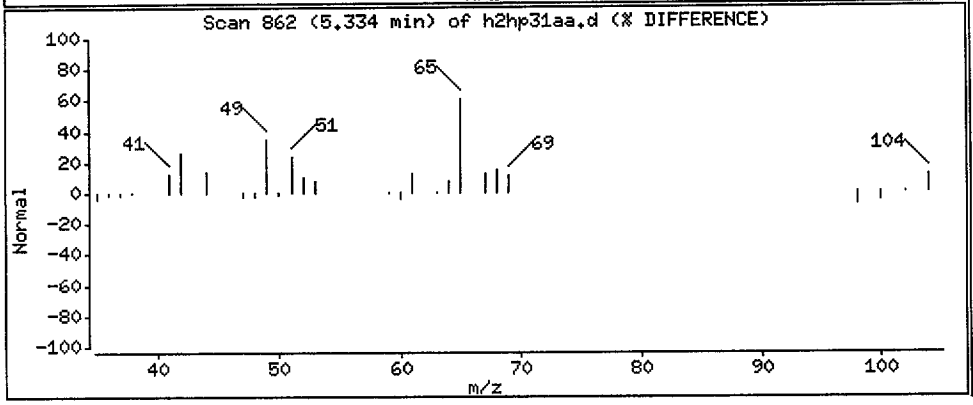












Data File: /chem/gcms/mz.i/Z040606.b/h2hp31aa.d

Date : 06-APR-2006 17:10

Client ID: G-2901-R1-CAUSTIC F

Instrument: mz.i

Sample Info: H2HP3AA,1,0,,

Purge Volume: 25.0

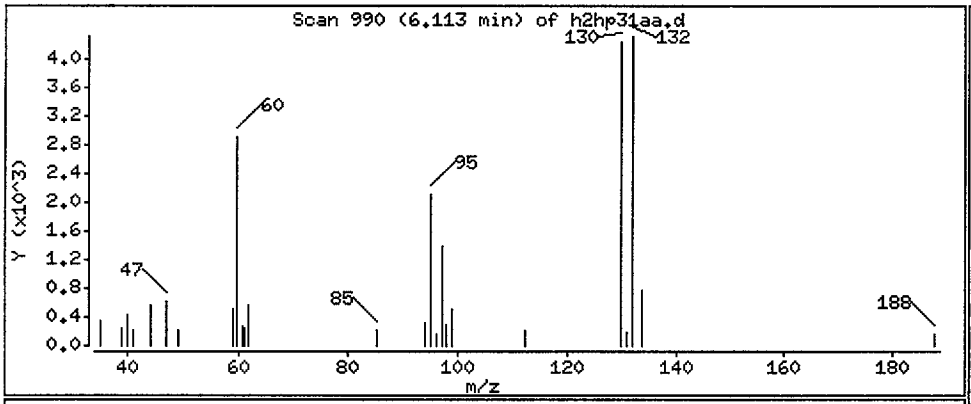
Operator: 063605

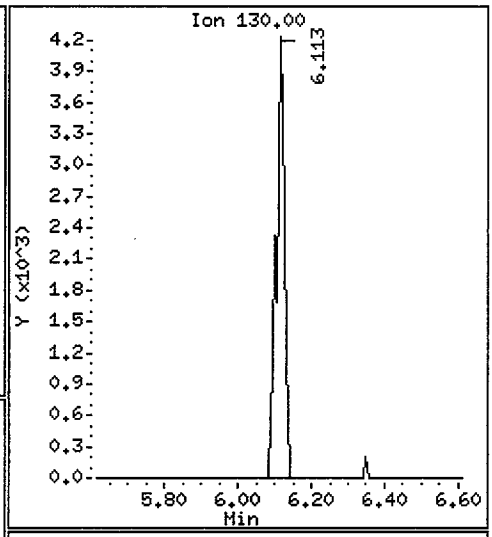
Column phase: J+W 624

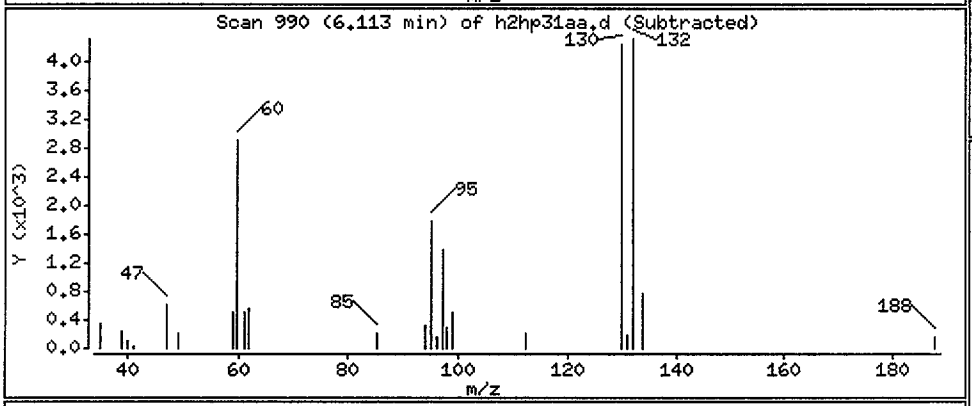
Column diameter: 0.18

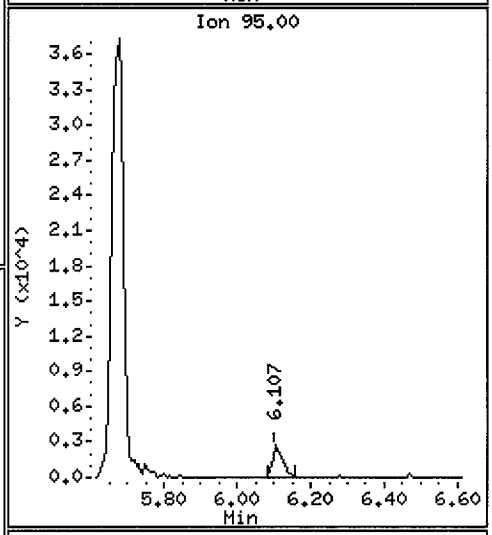
46 Trichloroethene

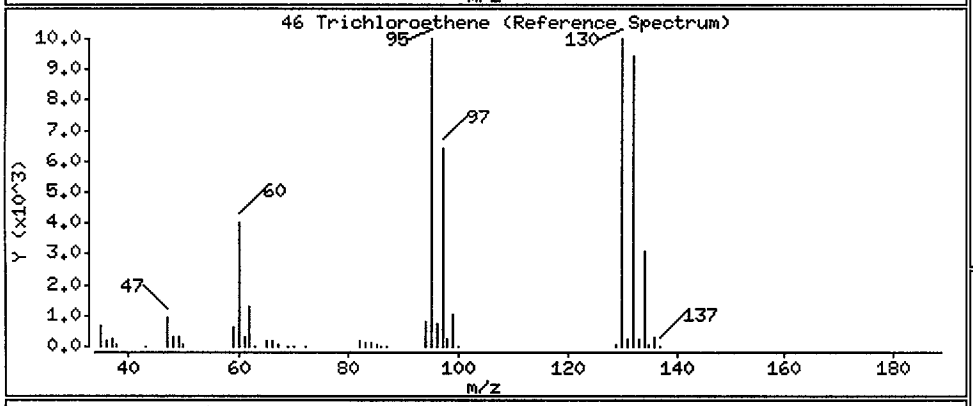
Concentration: 0.24156 ug/L

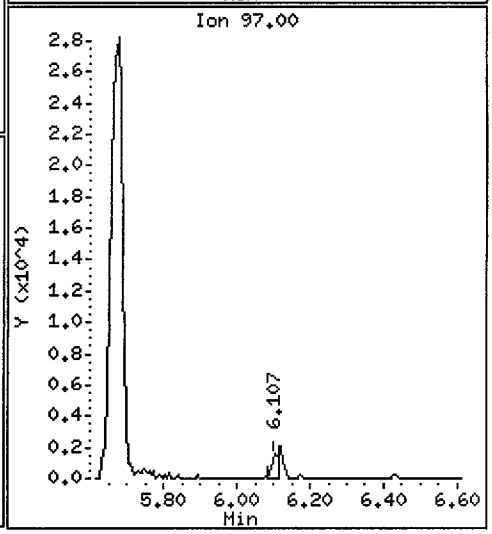


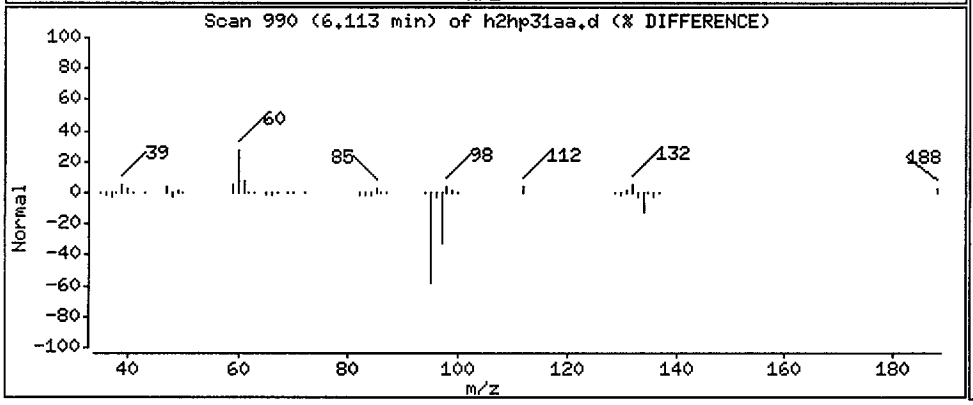












Data File: /chem/gcms/mz.i/Z040606.b/h2hp31aa.d

Date : 06-APR-2006 17:10

Client ID: G-2901-R1-CAUSTIC F

Instrument: mz.i

Sample Info: H2HP3AA,1,0,,

Purge Volume: 25.0

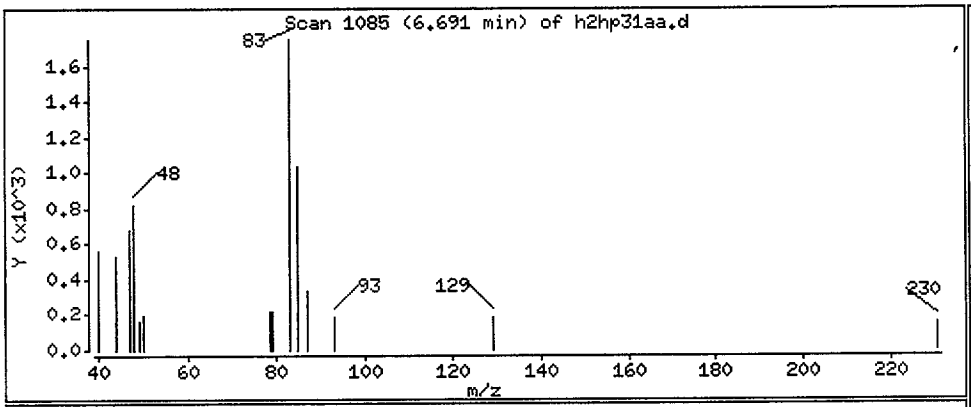
Operator: 063605

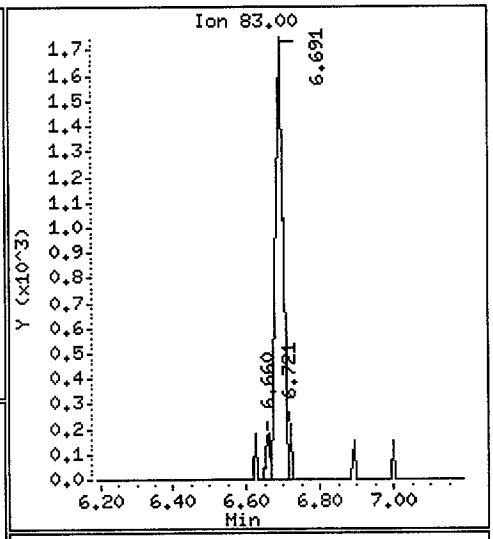
Column phase: J+W 624

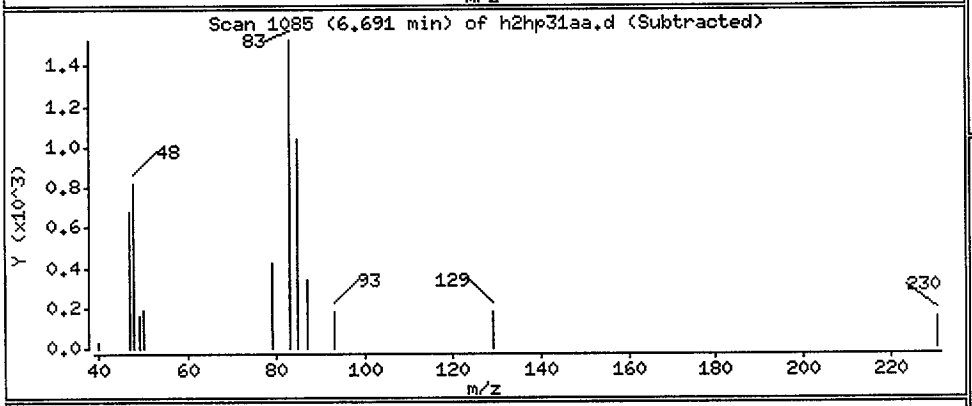
Column diameter: 0.18

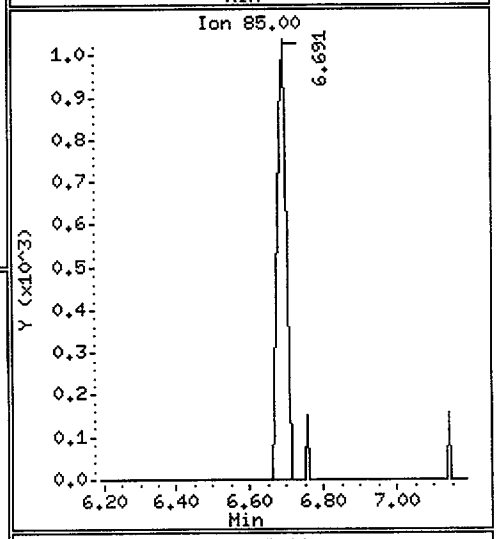
50 Bromodichloromethane

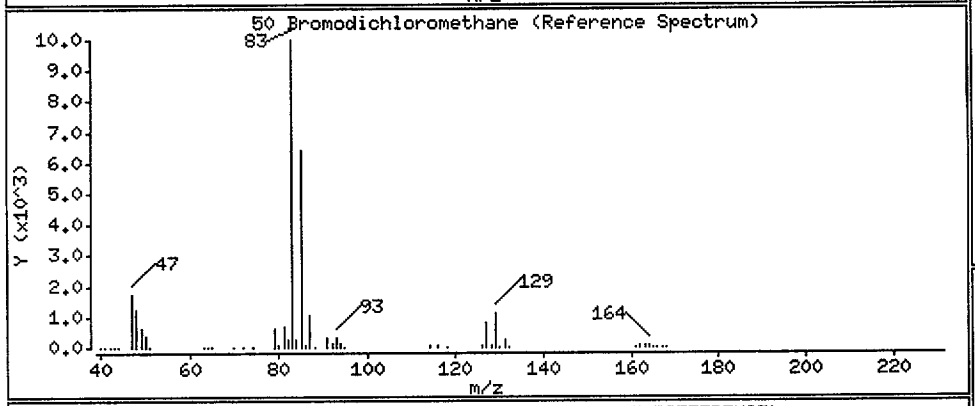
Concentration: 0.86241 ug/L

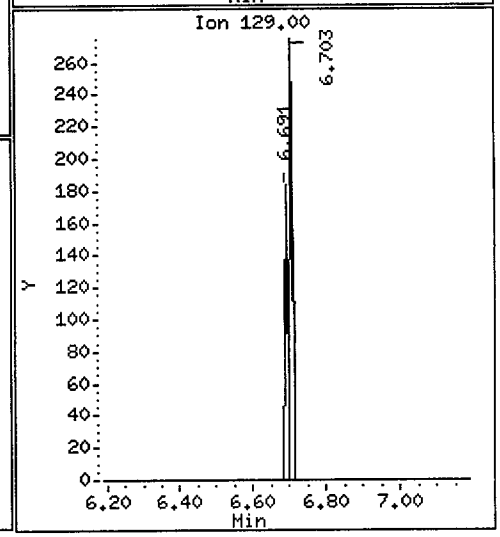


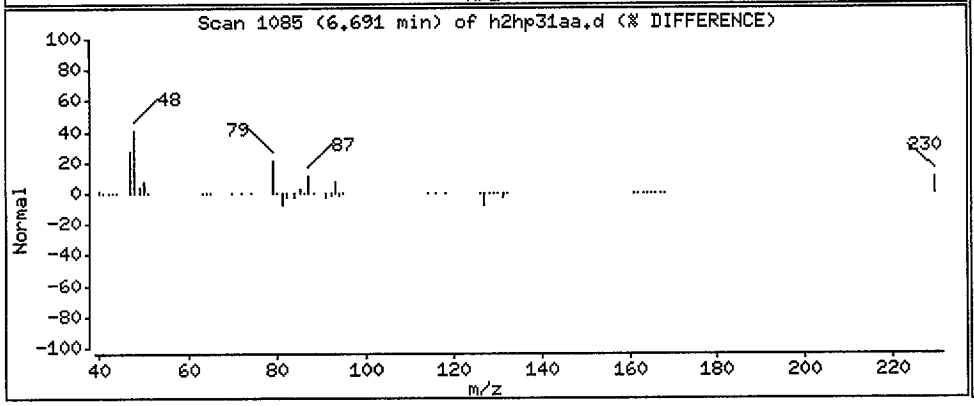












Data File: /chem/gcms/mz.i/Z040606.b/h2hp31aa.d

Date : 06-APR-2006 17:10

Client ID: G-2901-R1-CAUSTIC F

Instrument: mz.i

Sample Info: H2HP3AA,1,0,,

Purge Volume: 25.0

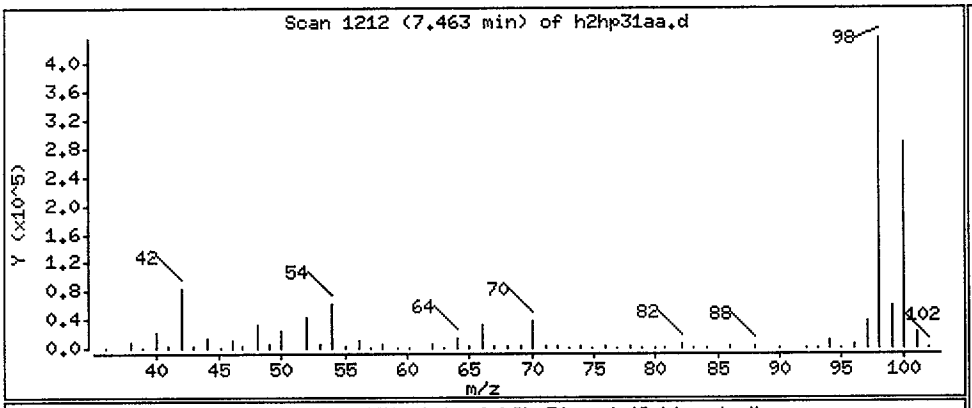
Operator: 063605

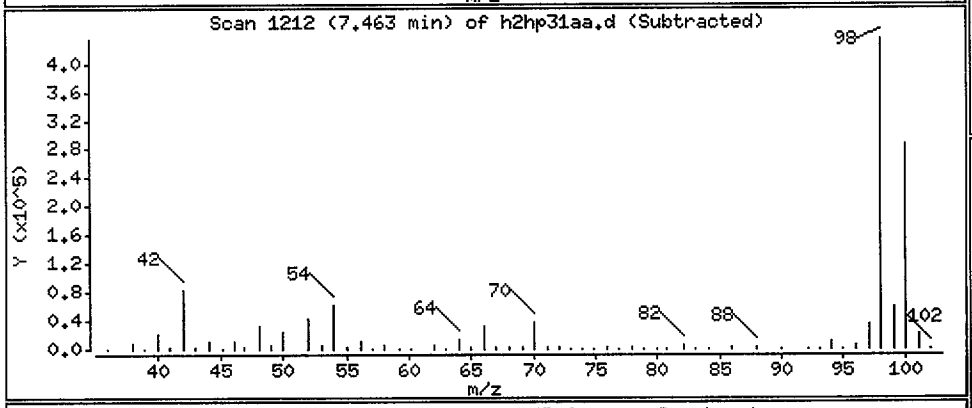
Column phase: J+W 624

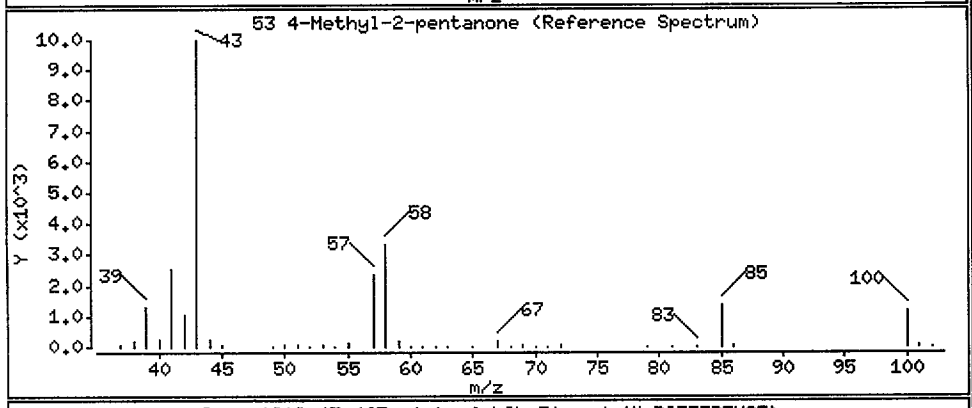
Column diameter: 0.18

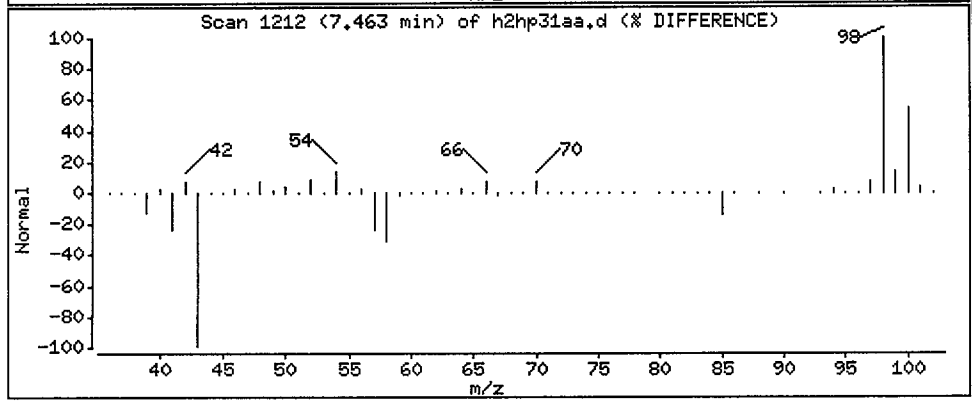
53 4-Methyl-2-pentanone

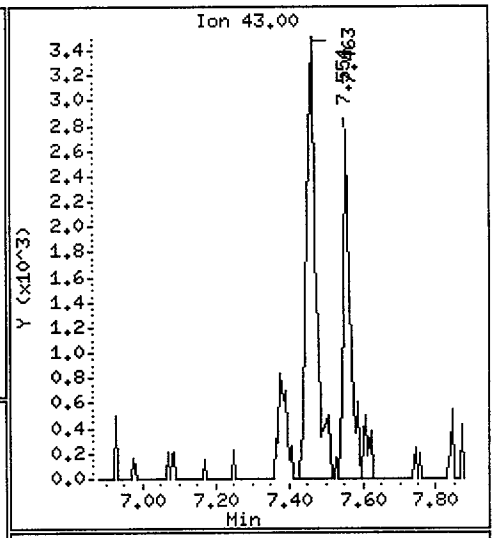
Concentration: 0.72220 ug/L

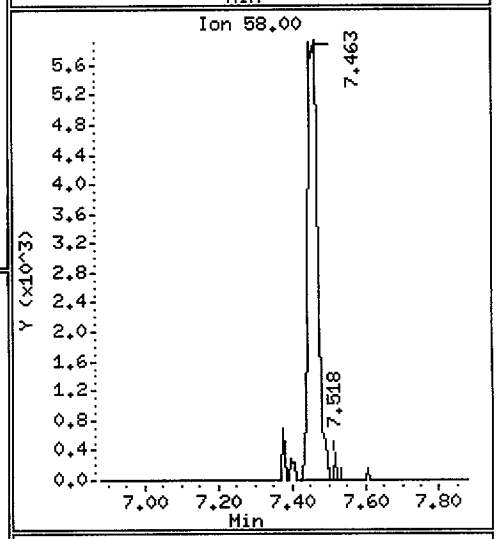


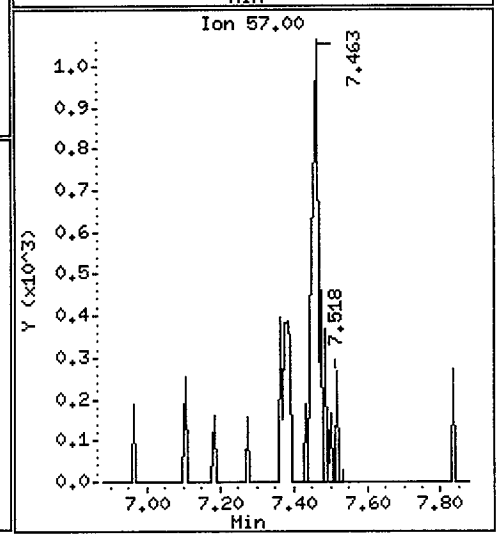












Data File: /chem/gcms/mz.i/Z040606.b/h2hp31aa.d

Date : 06-APR-2006 17:10

Client ID: G-2901-R1-CAUSTIC F

Instrument: mz.i

Sample Info: H2HP3AA,1,0,,

Purge Volume: 25.0

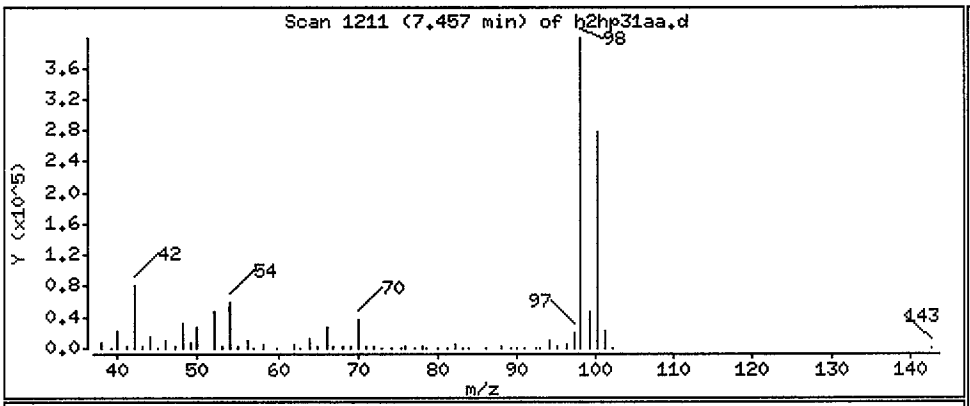
Operator: 063605

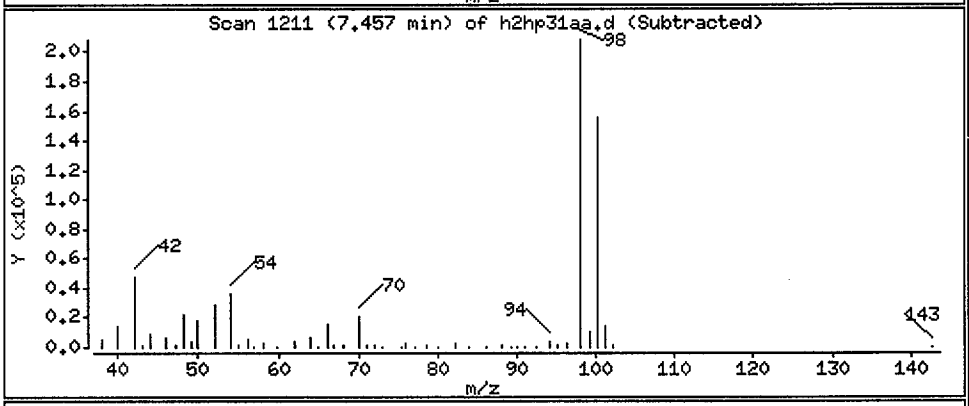
Column phase: J+W 624

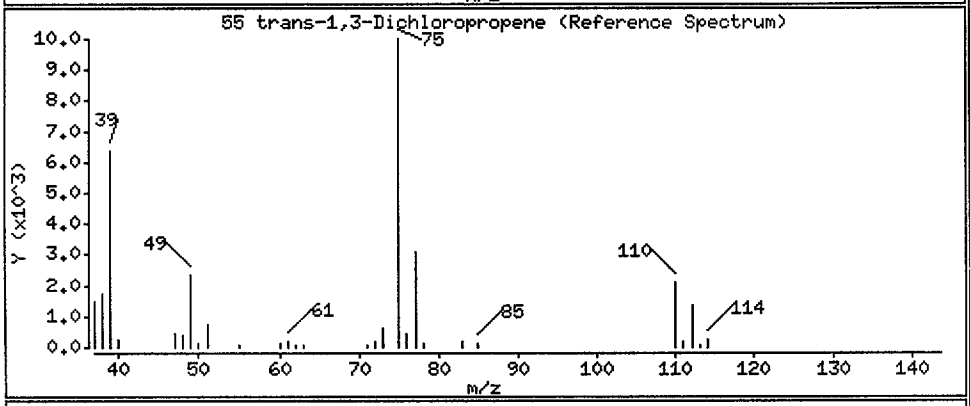
Column diameter: 0.18

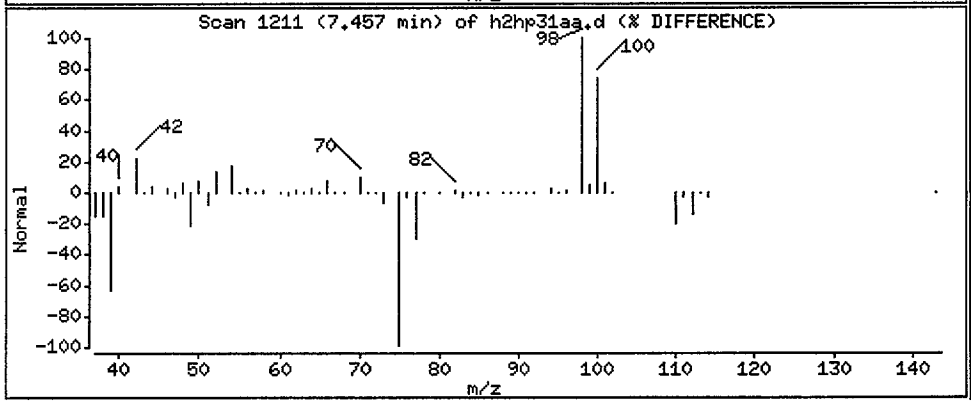
55 trans-1,3-Dichloropropene

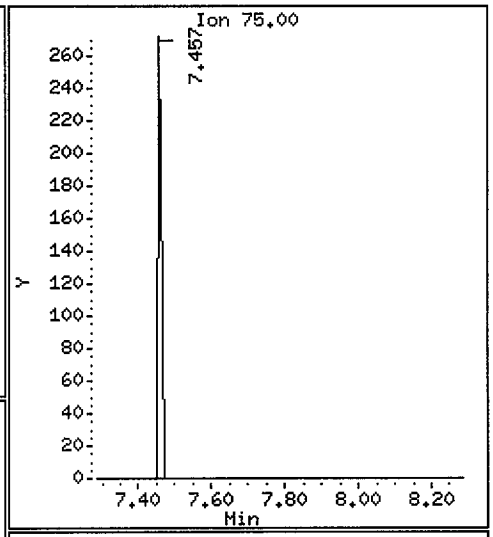
Concentration: 0.63414 ug/L

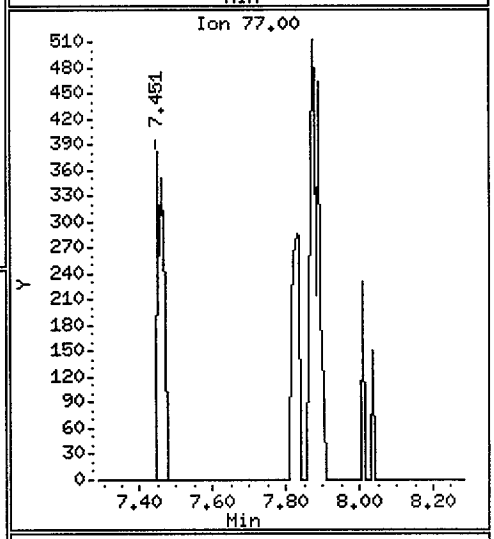


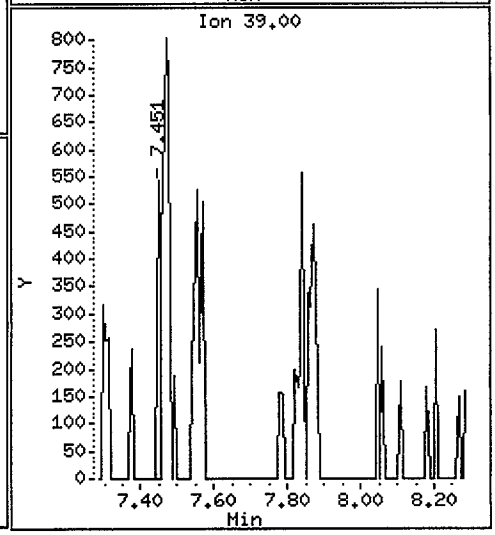












Data File: /chem/gcms/mz.i/Z040606.b/h2hp31aa.d

Date : 06-APR-2006 17:10

Client ID: G-2901-R1-CAUSTIC F

Instrument: mz.i

Sample Info: H2HP3AA,1,0,,

Purge Volume: 25.0

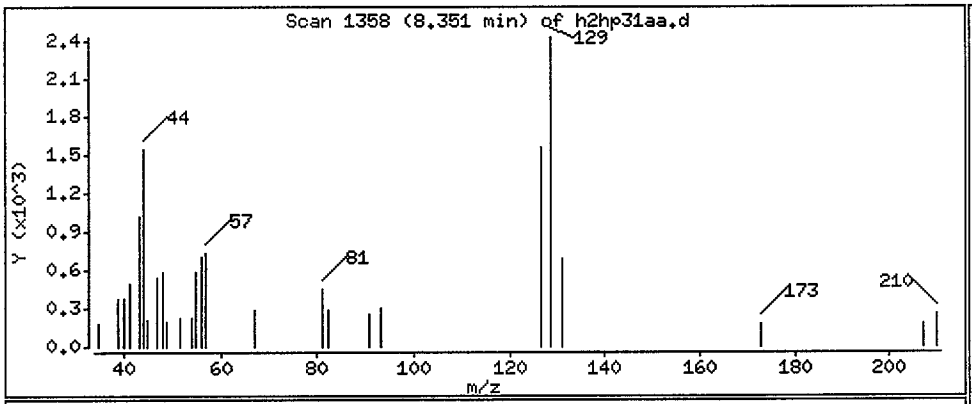
Operator: 063605

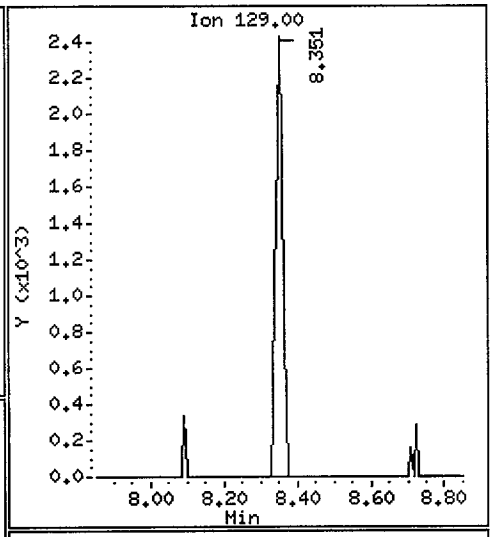
Column phase: J+W 624

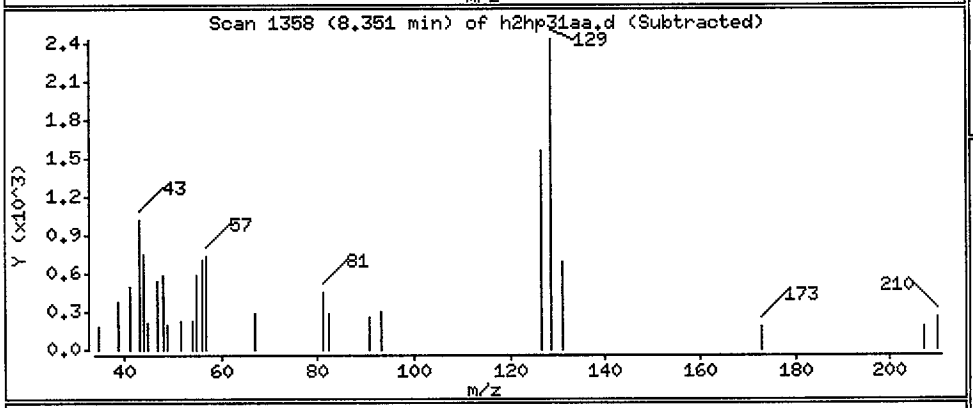
Column diameter: 0.18

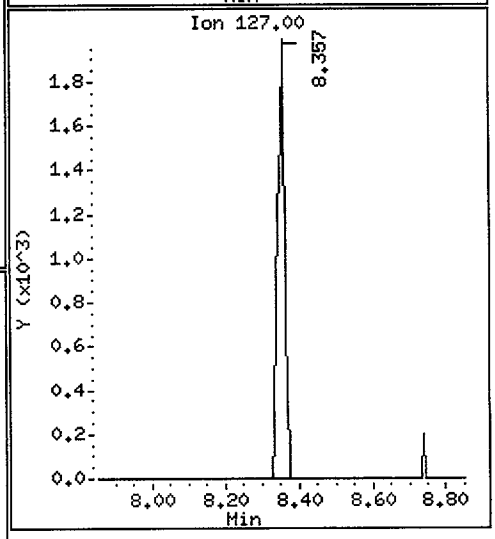
61 Chlorodibromomethane

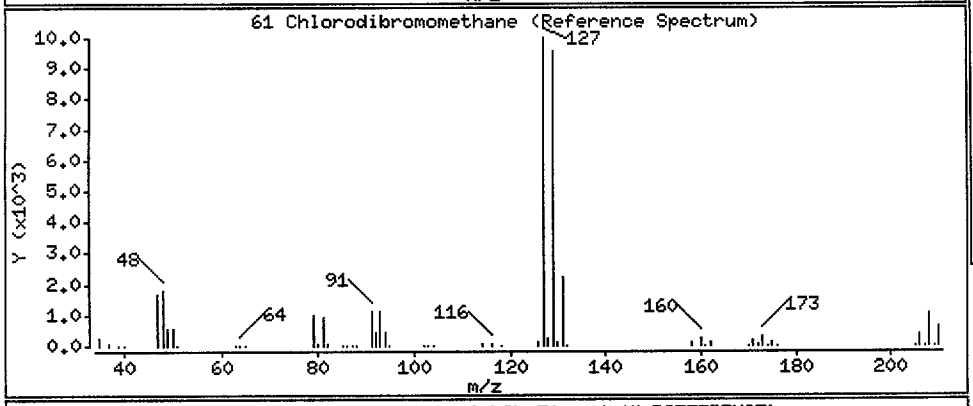
Concentration: 1.0418 ug/L

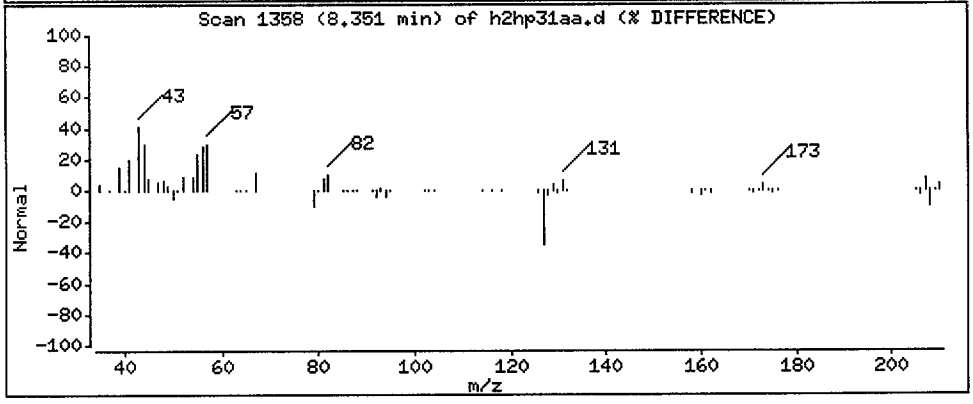












Data File: /chem/gcms/mz.i/Z040606.b/h2hp31aa.d

Date : 06-APR-2006 17:10

Client ID: G-2901-R1-CAUSTIC F

Instrument: mz.i

Sample Info: H2HP3AA,1,0,,

Purge Volume: 25.0

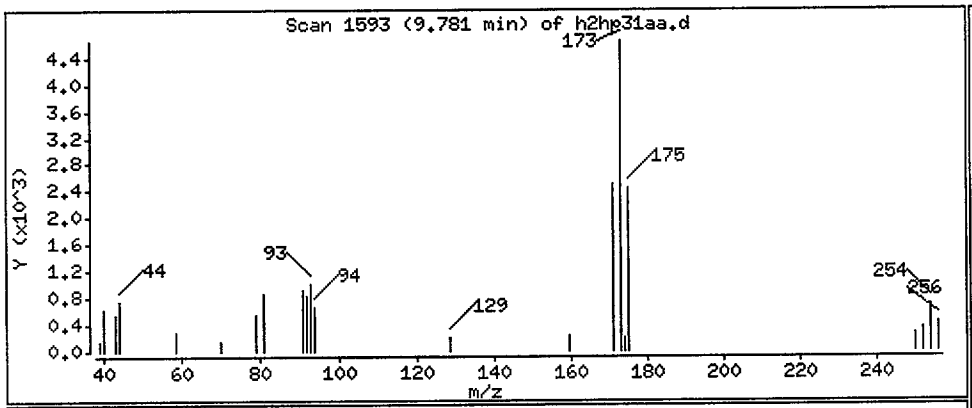
Operator: 063605

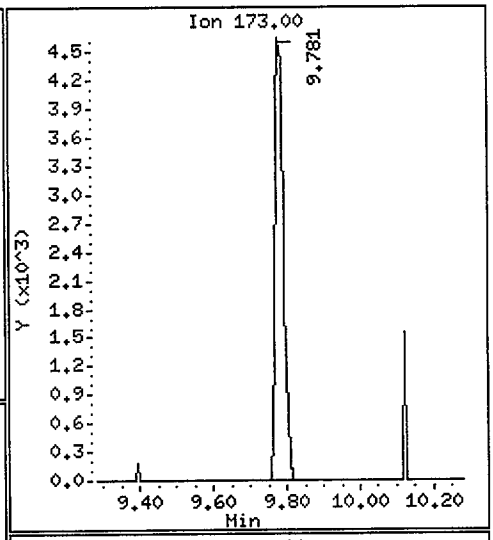
Column phase: J+W 624

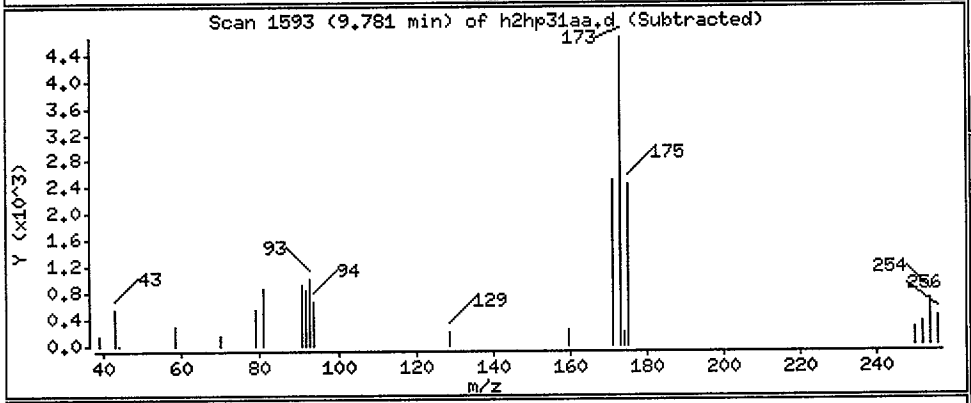
Column diameter: 0.18

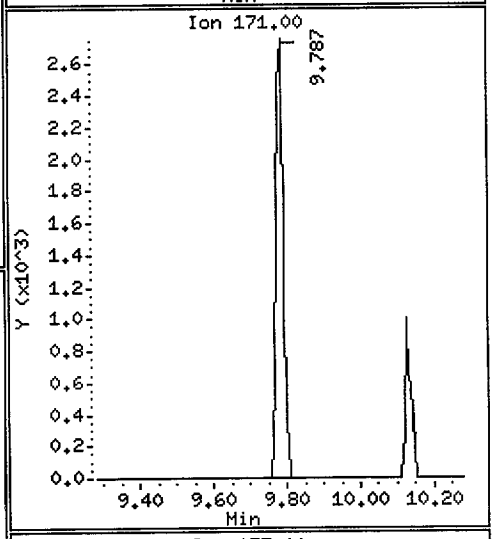
69 Bromoform (spcc)

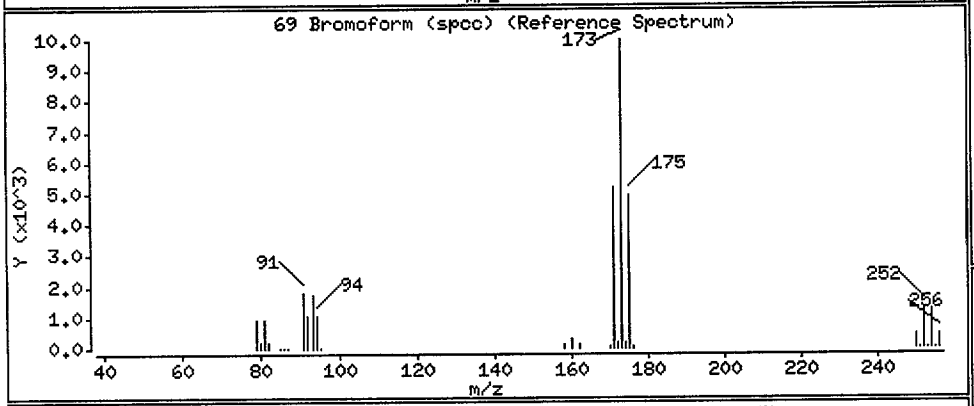
Concentration: 2.8368 ug/L

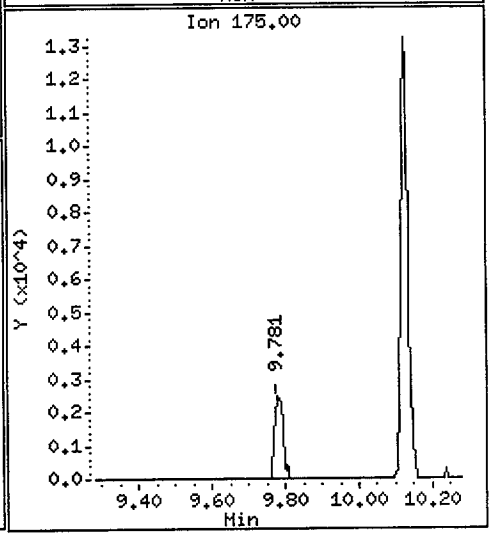


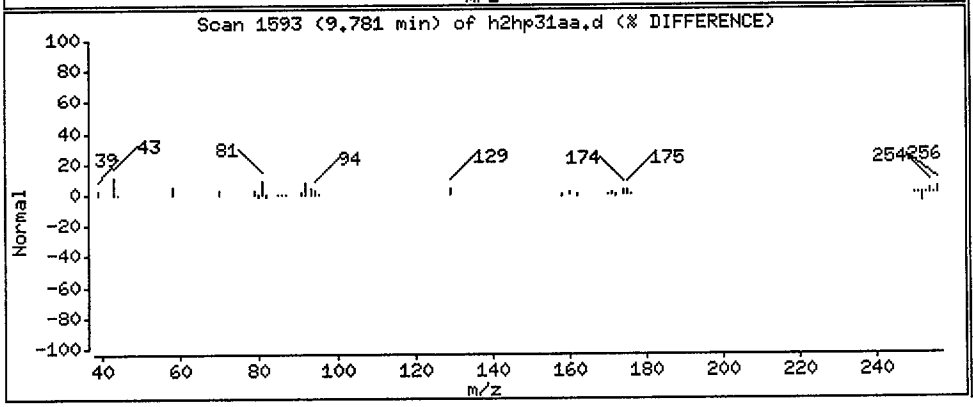












Data File: /chem/gcms/mz.i/Z040606.b/h2hp31aa.d

Date : 06-APR-2006 17:10

Client ID: G-2901-R1-CAUSTIC F

Instrument: mz.i

Sample Info: H2HP3AA,1,0,,

Purge Volume: 25.0

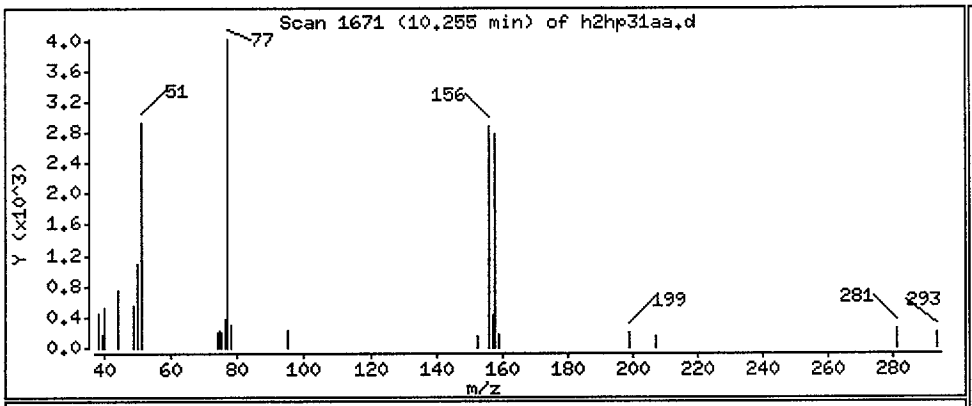
Operator: 063605

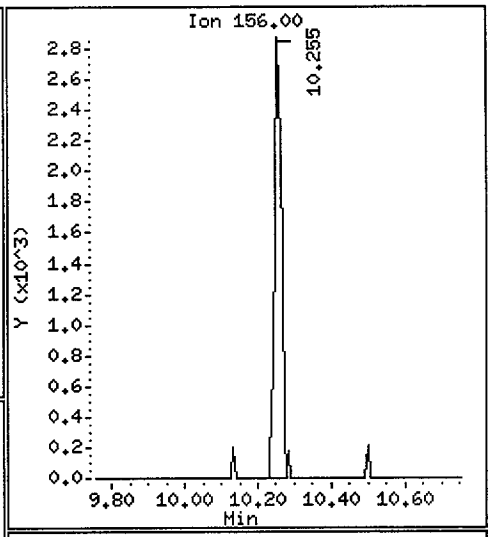
Column phase: J+W 624

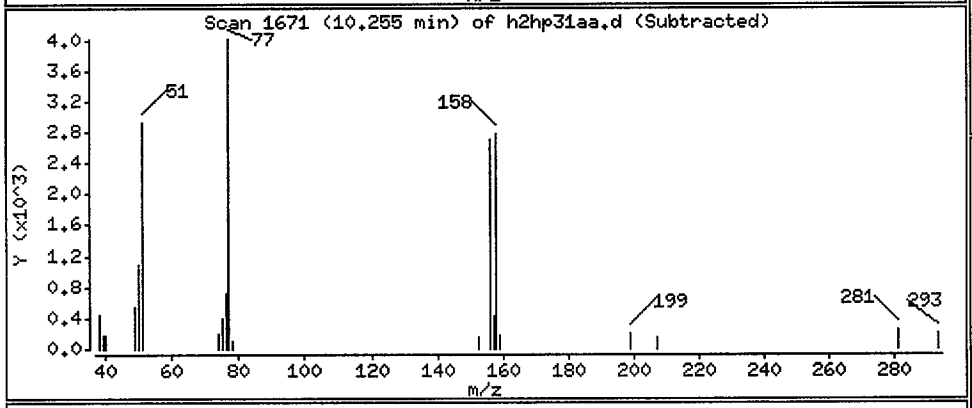
Column diameter: 0.18

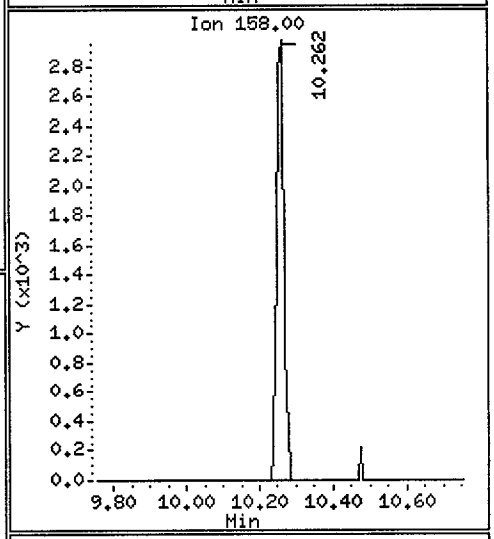
72 Bromobenzene

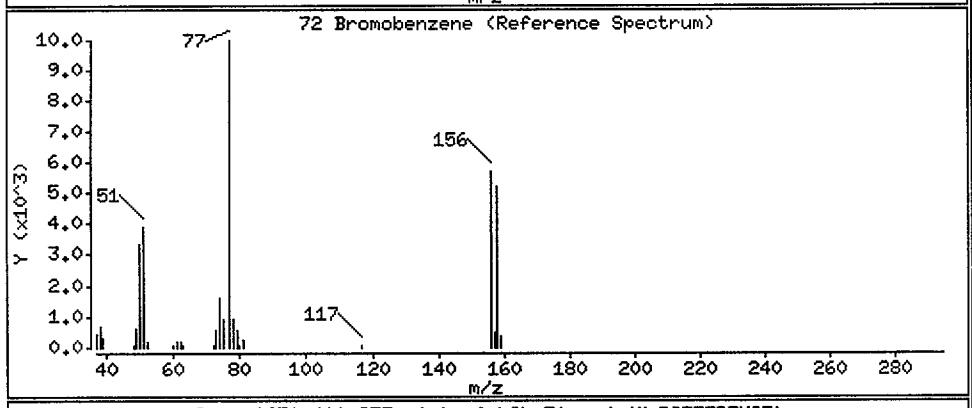
Concentration: 0.17835 ug/L

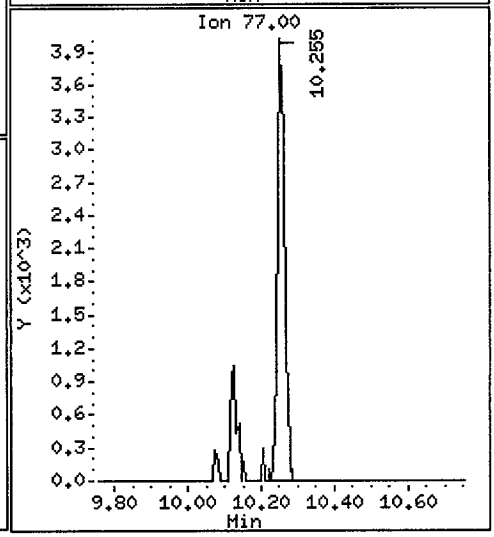


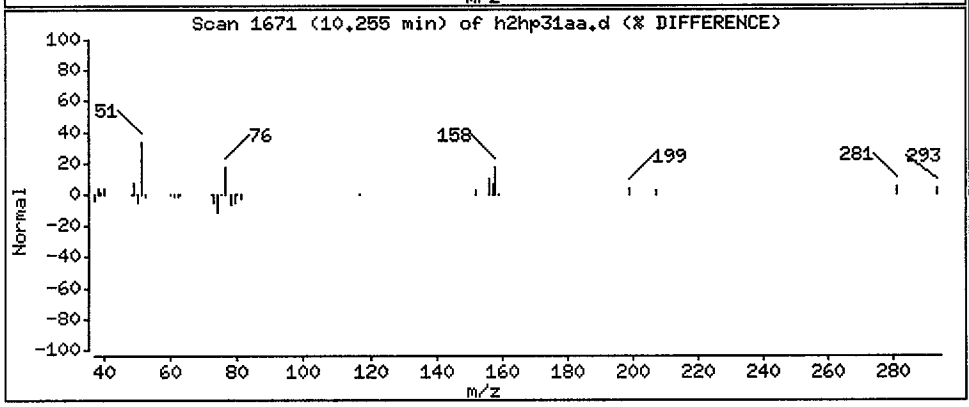












Data File: /var/chem/gcms/mz.i/Z040606.b/h2hp31aa.d
Report Date: 10-Apr-2006 15:55

STL Knoxville

Volatile Organics by GC/MS

Data file : /var/chem/gcms/mz.i/Z040606.b/h2hp31aa.d
Lab Smp Id: H2HP31AA Client Smp ID: G-2901-R1-CAUSTIC F
Inj Date : 06-APR-2006 17:10
Operator : 063605 Inst ID: mz.i
Smp Info : H2HP3AA,1,0,,
Misc Info : Z040606,8260B_LM,focus.sub
Comment : Volatile Organics by GC/MS
Method : /var/chem/gcms/mz.i/Z040606.b/8260B_LM.m
Meth Date : 07-Apr-2006 16:31 tillerm Quant Type: ISTD
Cal Date : 24-MAR-2006 13:51 Cal File: icvzc248.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: focus.sub
Target Version: 3.50
Processing Host: qmidhp01

Concentration Formula: Amt * DF * Uf*Vt/(Vo*1000) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Unit Correction factor
Vt	25000.00000	Sample Volume Purged
Vo	25.00000	Sample Volume Used

Cpnd Variable Local Compound Variable

ISTD	RT	HEIGHT	AMOUNT
* 1 Fluorobenzene	5.669	1016531	10.000

	CONCENTRATIONS			QUANT		
RT	HEIGHT	ON-COL(ug/L)	FINAL(ug/L)	QUAL	LIBRARY	LIB ENTRY	CPND #
0.911	2340104	23.0204883	23.020	5	NIST05.1	80	1

Carbon dioxide Air
CAS #: 124-38-9

MT 4/10/06

Data File: /var/chem/gcms/mz.i/Z040606.b/h2hp31aa.d

Date : 06-APR-2006 17:10

Client ID: G-2901-R1-CAUSTIC F

Instrument: mz.i

Sample Info: H2HP3AA,1,0,,

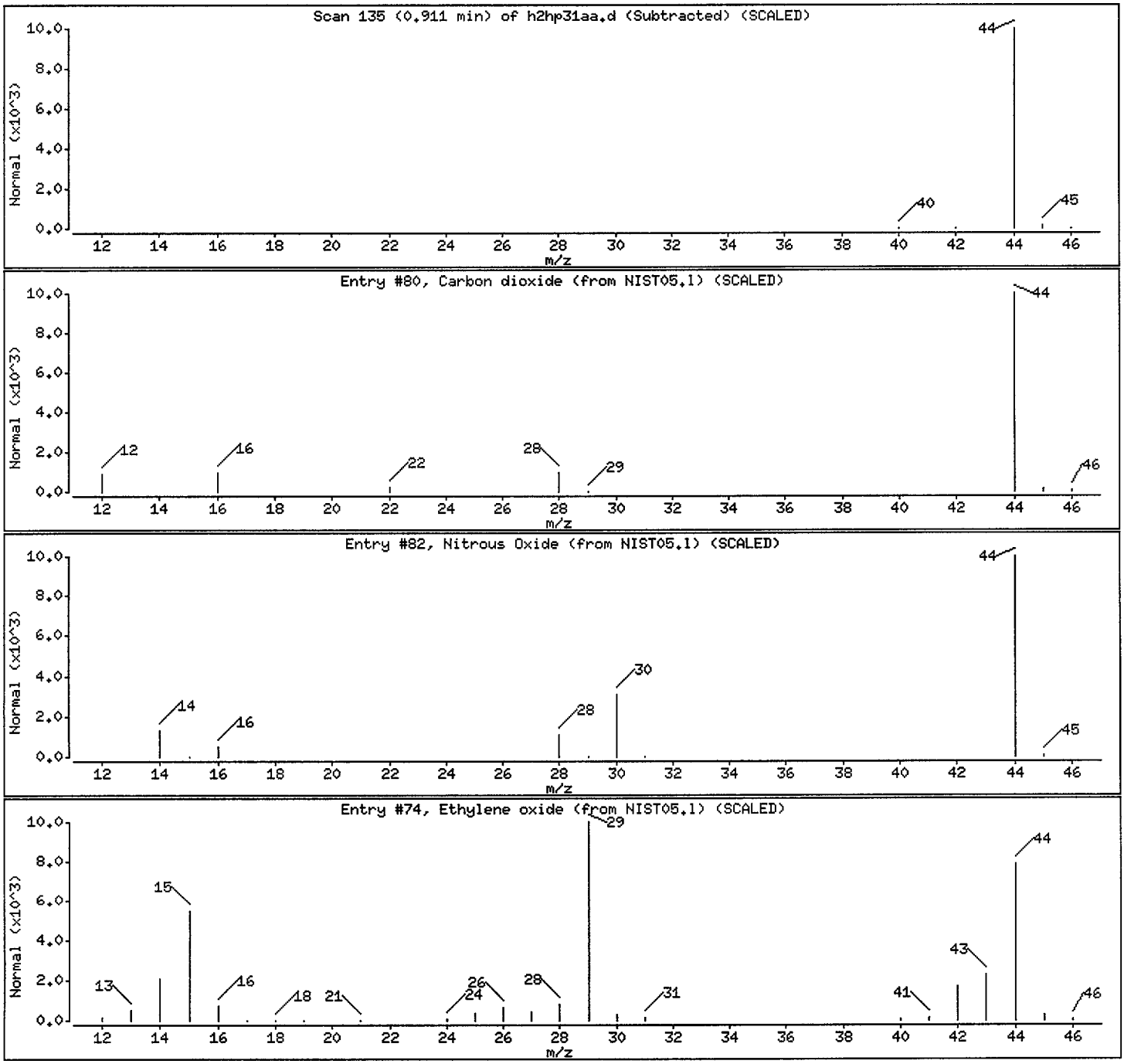
Purge Volume: 25.0

Operator: 063605

Column phase: J+W 624

Column diameter: 0.18

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Carbon dioxide	124-38-9	NIST05.l	80	5	CO2	44
Nitrous Oxide	10024-97-2	NIST05.l	82	3	N2O	44
Ethylene oxide	75-21-8	NIST05.l	74	2	C2H4O	44



STL Knoxville - ACS

Client Sample ID: G-2905-R1-MAKE-UP WATER

GC/MS Volatiles

Lot-Sample #...: H6D030205-005 **Work Order #...:** H2HQD1AA **Matrix.....:** WATER
Date Sampled...: 03/28/06 **Date Received..:** 04/02/06
Prep Date.....: 04/06/06 **Analysis Date..:** 04/06/06
Prep Batch #...: 6096330
Dilution Factor: 1 **Method.....:** SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	**4.4 J**	**10**	**ug/L**	**1.4**
Acrylonitrile	ND	20	ug/L	2.7
Benzene	ND	1.0	ug/L	0.10
Bromobenzene	ND	1.0	ug/L	0.11
Bromochloromethane	ND	1.0	ug/L	0.24
Bromodichloromethane	**3.2**	**1.0**	**ug/L**	**0.10**
Bromoform	**40**	**1.0**	**ug/L**	**0.14**
Bromomethane	ND	2.0	ug/L	0.38
2-Butanone	ND	5.0	ug/L	0.75
n-Butylbenzene	ND	1.0	ug/L	0.10
sec-Butylbenzene	ND	1.0	ug/L	0.10
tert-Butylbenzene	ND	1.0	ug/L	0.24
Carbon disulfide	ND	1.0	ug/L	0.10
Carbon tetrachloride	ND	1.0	ug/L	0.12
Chlorobenzene	ND	1.0	ug/L	0.10
Chlorodibromomethane	**13**	**1.0**	**ug/L**	**0.20**
Chloroethane	ND	2.0	ug/L	0.24
Chloroform	**0.56 J**	**1.0**	**ug/L**	**0.10**
Chloromethane	ND	2.0	ug/L	0.12
2-Chlorotoluene	ND	1.0	ug/L	0.24
4-Chlorotoluene	ND	1.0	ug/L	0.21
1,2-Dibromo-3-chloro-propane	ND	2.0	ug/L	0.45
1,2-Dibromoethane	ND	1.0	ug/L	0.24
Dibromomethane	ND	1.0	ug/L	0.21
1,2-Dichlorobenzene	ND	1.0	ug/L	0.10
1,3-Dichlorobenzene	ND	1.0	ug/L	0.10
1,4-Dichlorobenzene	ND	1.0	ug/L	0.12
Dichlorodifluoromethane	ND	2.0	ug/L	0.15
1,1-Dichloroethane	ND	1.0	ug/L	0.10
1,2-Dichloroethane	ND	1.0	ug/L	0.10
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.12
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.10
1,1-Dichloroethene	ND	1.0	ug/L	0.10
1,2-Dichloropropane	ND	1.0	ug/L	0.10
1,3-Dichloropropane	ND	1.0	ug/L	0.17
2,2-Dichloropropane	ND	1.0	ug/L	0.11
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.10
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.11

(Continued on next page)

STL Knoxville - ACS

Client Sample ID: G-2905-R1-MAKE-UP WATER

GC/MS Volatiles

Lot-Sample #...: H6D030205-005 **Work Order #...:** H2HQD1AA **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1-Dichloropropene	ND	1.0	ug/L	0.10
Ethylbenzene	ND	1.0	ug/L	0.10
Hexachlorobutadiene	ND	2.0	ug/L	0.12
2-Hexanone	ND	5.0	ug/L	0.76
Iodomethane	ND	2.0	ug/L	0.12
Isopropylbenzene	ND	1.0	ug/L	0.10
p-Isopropyltoluene	ND	1.0	ug/L	0.10
Methylene chloride	**0.55 J**	**2.0**	**ug/L**	**0.23**
4-Methyl-2-pentanone	ND	5.0	ug/L	0.40
Naphthalene	ND	1.0	ug/L	0.17
n-Propylbenzene	ND	1.0	ug/L	0.10
Styrene	ND	1.0	ug/L	0.10
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	0.12
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.15
Tetrachloroethene	**0.33 J**	**1.0**	**ug/L**	**0.10**
Tetrahydrofuran	ND	4.0	ug/L	1.2
Toluene	ND	1.0	ug/L	0.10
1,2,3-Trichlorobenzene	ND	1.0	ug/L	0.23
1,2,4-Trichloro-benzene	ND	1.0	ug/L	0.15
1,1,1-Trichloroethane	ND	1.0	ug/L	0.10
1,1,2-Trichloroethane	ND	1.0	ug/L	0.25
Trichloroethene	ND	1.0	ug/L	0.10
Trichlorofluoromethane	ND	2.0	ug/L	0.12
1,2,3-Trichloropropane	ND	1.0	ug/L	0.36
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	1.0	ug/L	0.13
1,2,4-Trimethylbenzene	ND	1.0	ug/L	0.11
1,3,5-Trimethylbenzene	ND	1.0	ug/L	0.10
Vinyl acetate	ND	2.0	ug/L	0.24
Vinyl chloride	ND	1.0	ug/L	0.24
m-Xylene & p-Xylene	ND	1.0	ug/L	0.20
o-Xylene	ND	1.0	ug/L	0.14
Xylenes (total)	ND	1.0	ug/L	0.30

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	110	(79 - 120)
1,2-Dichloroethane-d4	111	(71 - 127)
Toluene-d8	102	(80 - 120)
Bromofluorobenzene	92	(69 - 126)

NOTE(S):

J Estimated result. Result is less than RL.

STL Knoxville - ACS

G-2905-R1-MAKE-UP WATER

GC/MS Volatiles

Lot-Sample #: H6D030205-005 **Work Order #:** H2HQD1AA **Matrix:** WATER

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT	RETENTION TIME	UNITS
None				ug/L

Data File: /chem/gcms/mz.i/Z040606.b/h2hqd1aa.d
Report Date: 06-Apr-2006 17:50

STL Knoxville

Volatile Organics by GC/MS

Data file : /chem/gcms/mz.i/Z040606.b/h2hqd1aa.d
Lab Smp Id: H2HQD1AA Client Smp ID: G-2905-R1-MAKE-UP W
Inj Date : 06-APR-2006 17:33
Operator : 063605 Inst ID: mz.i
Smp Info : H2HQD1AA,1,0,,
Misc Info : Z040606,8260B_LM,focus.sub
Comment : Volatile Organics by GC/MS
Method : /var/chem/gcms/mz.i/Z040606.b/8260B_LM.m
Meth Date : 06-Apr-2006 15:29 tillerm Quant Type: ISTD
Cal Date : 24-MAR-2006 13:51 Cal File: icvzc248.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: focus.sub
Target Version: 3.50
Processing Host: qmidhp01

Concentration Formula: Amt * DF * Uf*Vt/(Vo*1000) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Unit Correction factor
Vt	25000.00000	Sample Volume Purged
Vo	25.00000	Sample Volume Used

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
*	1 Fluorobenzene	96	5.673	5.667	(1.000)	879440	10.0000	
*	2 Chlorobenzene-d5	119	8.934	8.934	(1.000)	162580	10.0000	
*	3 1,4 Dichlorobenzene-d4	152	11.489	11.489	(1.000)	208431	10.0000	
$	5 1,2-Dichloroethane-d4	65	5.235	5.229	(0.923)	135371	11.1089	11.109
$	4 Dibromofluoromethane	113	4.834	4.827	(0.852)	155528	11.0368	11.037
$	6 Toluene-d8	98	7.462	7.461	(0.835)	727011	10.1772	10.177
$	7 4-Bromofluorobenzene	95	10.126	10.120	(0.881)	193867	9.22286	9.2228
	15 Bromomethane	94	1.378	1.408	(0.243)	319	~~0.86829~~	~~0.86829~~
	22 Acetone	43	2.127	2.126	(0.375)	5979	4.42120	4.4212
	23 *Iodomethane	142	2.188	2.181	(0.386)	770	0.55586	0.55586
	27 Methylene Chloride	84	2.516	2.510	(0.443)	8157	0.55459	0.55459
	39 *THF	42	4.341	4.535	(0.765)	3563	~~1.70796~~	~~1.7080~~
	40 Chloroform (ccc)	83	4.621	4.614	(0.814)	17674	0.55624	0.55624
	45 1,2-Dichloroethane	62	5.661	5.326	(0.998)	6316	~~0.34395~~	~~0.34395~~

MT 4/10/06

Data File: /chem/gcms/mz.i/Z040606.b/h2hqd1aa.d
Report Date: 06-Apr-2006 17:50

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
50 Bromodichloromethane	83	6.689	6.689	(1.179)	41184	3.23716	3.2372
53 4-Methyl-2-pentanone	43	7.462	7.376	(1.315)	6226	0.81080	0.81080
55 trans-1,3-Dichloropropene	75	7.486	7.784	(0.838)	210	0.63951	0.63951
58 Tetrachloroethene	164	8.095	8.094	(0.906)	6412	0.33412	0.33412
61 Chlorodibromomethane	129	8.350	8.350	(0.935)	101200	12.5915	12.591
69 Bromoform (spcc)	173	9.786	9.779	(1.095)	133191	40.3993	40.399

MT
4/10/06

Data File: /chem/gcms/mz.i/Z040606.b/h2hqd1aa.d
Report Date: 06-Apr-2006 17:50

STL Knoxville

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: mz.i
Lab File ID: h2hqd1aa.d
Lab Smp Id: H2HQD1AA
Analysis Type: VOA
Quant Type: ISTD
Operator: 063605
Calibration Date: 06-APR-2006
Calibration Time: 13:58
Client Smp ID: G-2905-R1-MAKE-UP W
Level: LOW
Sample Type: WATER
Method File: /var/chem/gcms/mz.i/Z040606.b/8260B_LM.m
Misc Info: Z040606,8260B_LM,focus.sub

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	938680	469340	1877360	879440	-6.31
2 Chlorobenzene-d5	169233	84616	338466	162580	-3.93
3 1,4 Dichlorobenze	201373	100686	402746	208431	3.50

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	5.67	5.17	6.17	5.67	0.11
2 Chlorobenzene-d5	8.93	8.43	9.43	8.93	0.01
3 1,4 Dichlorobenze	11.49	10.99	11.99	11.49	0.00

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

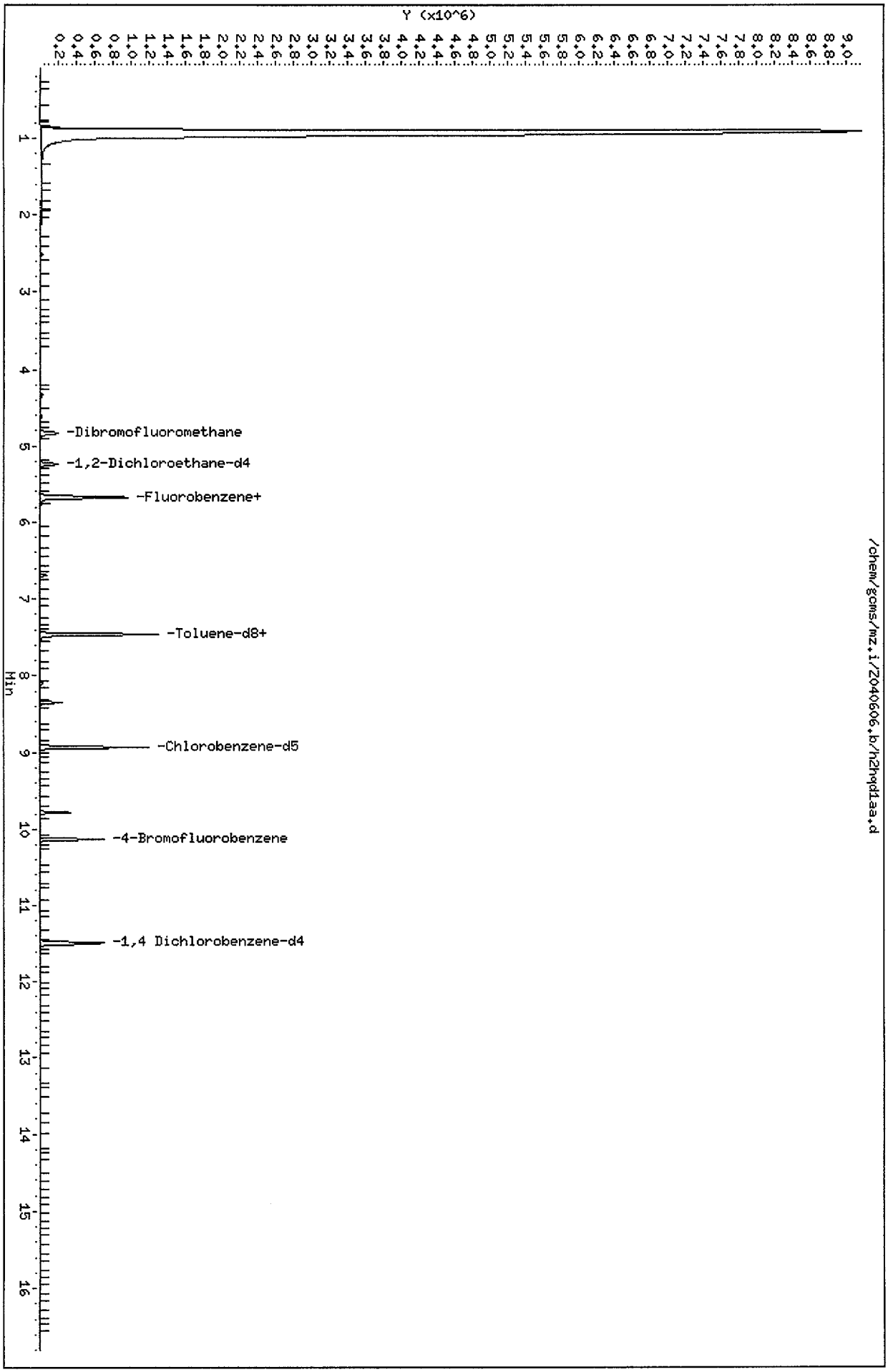
Data File: /chem/gcms/mz.i/Z040606.b/h2hqd1aa.d
Report Date: 06-Apr-2006 17:50

STL Knoxville

RECOVERY REPORT

Client Name: STL Knoxville - ACS
Client SDG: H6D030205
Sample Matrix: LIQUID
Fraction: VOA
Lab Smp Id: H2HQD1AA
Client Smp ID: G-2905-R1-MAKE-UP W
Level: LOW
Operator: 063605
Data Type: MS DATA
SampleType: SAMPLE
SpikeList File: allcmpds.spk
Quant Type: ISTD
Sublist File: focus.sub
Method File: /var/chem/gcms/mz.i/Z040606.b/8260B_LM.m
Misc Info: Z040606,8260B_LM,focus.sub

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
$ 5 1,2-Dichloroethane	10.000	11.109	111.09	71-127
$ 4 Dibromofluorometha	10.000	11.037	110.37	79-120
$ 6 Toluene-d8	10.000	10.177	101.77	80-120
$ 7 4-Bromofluorobenze	10.000	9.2228	92.23	69-126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Date : 06-APR-2006 17:33
Client ID: G-2905-R1-MAKE-UP W
Instrument: mz.i
Sample Info: H2HQD1AA,1,0,,
Purge Volume: 25.0
Operator: 063605
Column phase: J+W 624
Column diameter: 0.18
Y (x10^6)
/chem/gcms/mz.i/Z040606.b/h2hqd1aa.d
-Dibromofluoromethane
-1,2-Dichloroethane-d4
-Fluorobenzene+
-Toluene-d8+
-Chlorobenzene-d5
-4-Bromofluorobenzene
-1,4 Dichlorobenzene-d4
Min

Data File: /chem/gcms/mz.i/Z040606.b/h2hqd1aa.d

Date : 06-APR-2006 17:33

Client ID: G-2905-R1-MAKE-UP W

Instrument: mz.i

Sample Info: H2HQD1AA,1,0,,

Purge Volume: 25.0

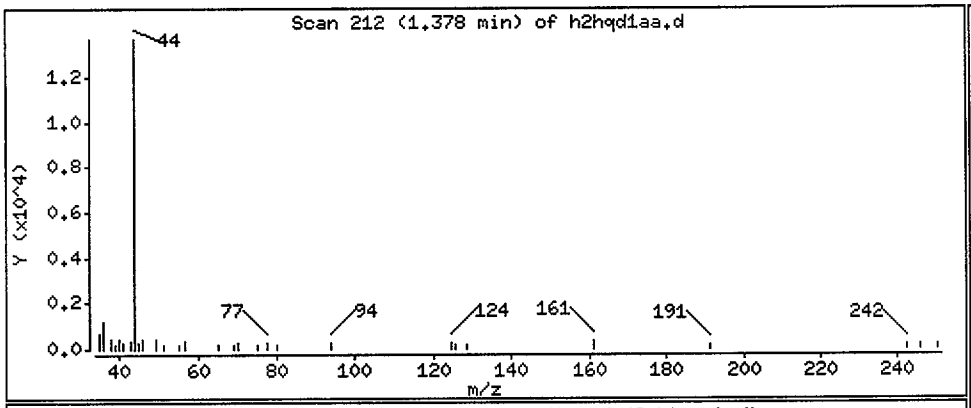
Operator: 063605

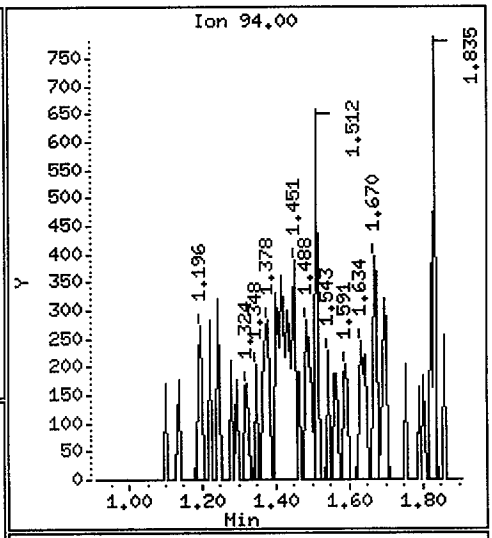
Column phase: J+W 624

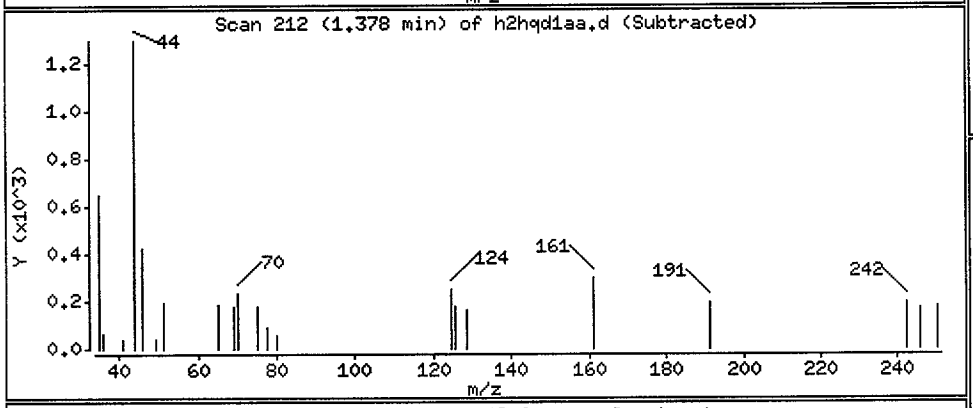
Column diameter: 0.18

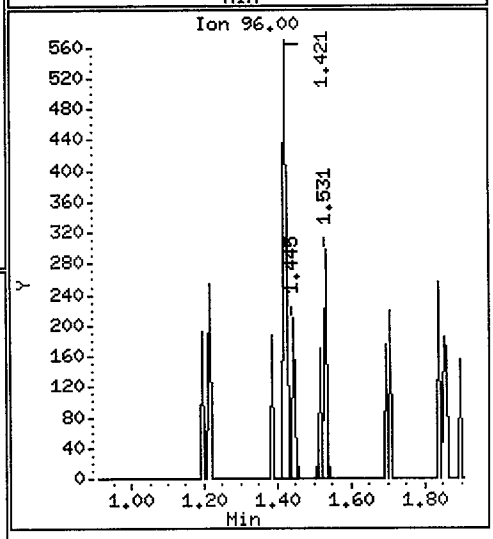
15 Bromomethane

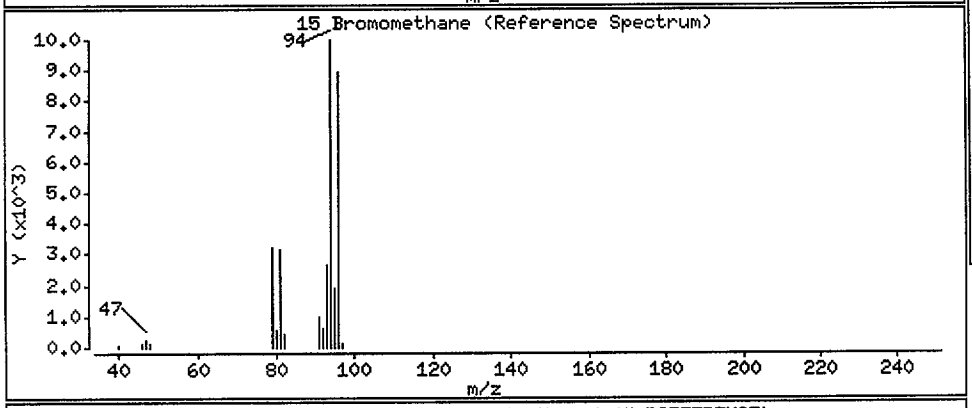
Concentration: 0.86829 ug/L

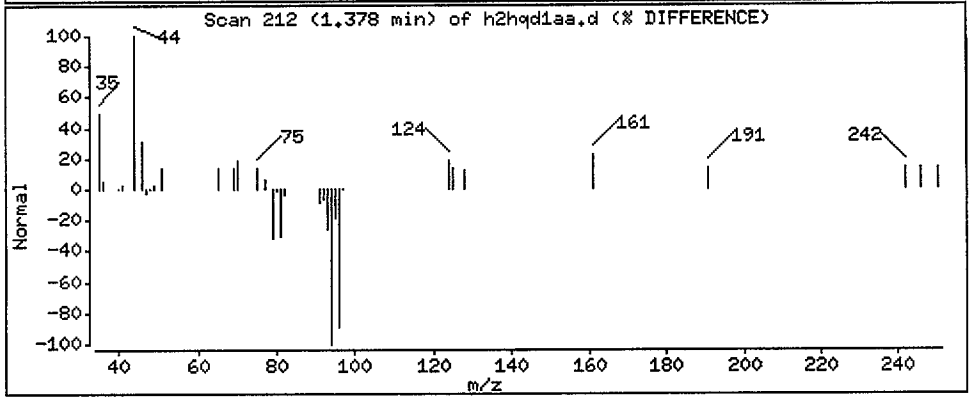












Data File: /chem/gcms/mz.i/Z040606.b/h2hqd1aa.d

Date : 06-APR-2006 17:33

Client ID: G-2905-R1-MAKE-UP W

Instrument: mz.i

Sample Info: H2HQD1AA,1,0,,

Purge Volume: 25.0

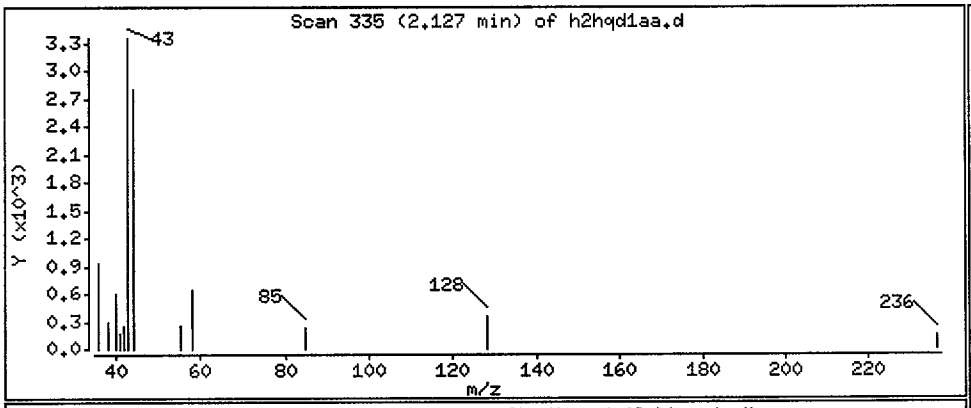
Operator: 063605

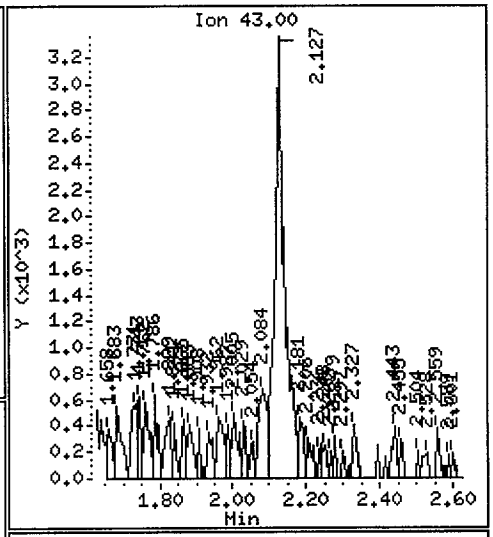
Column phase: J+W 624

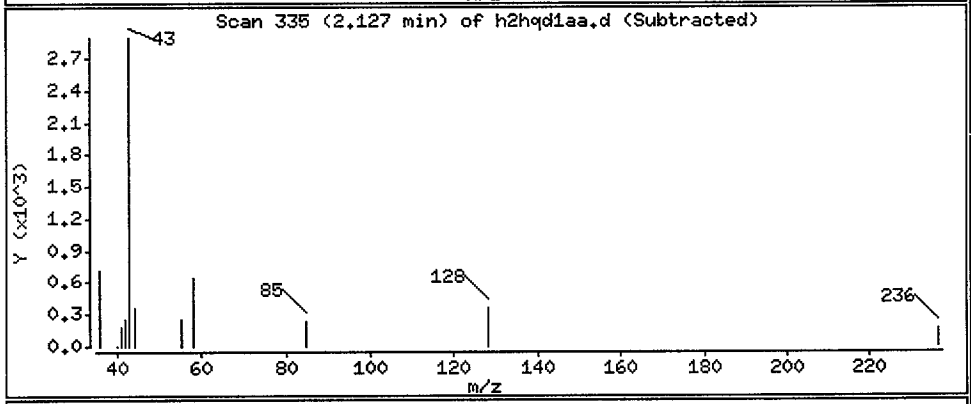
Column diameter: 0.18

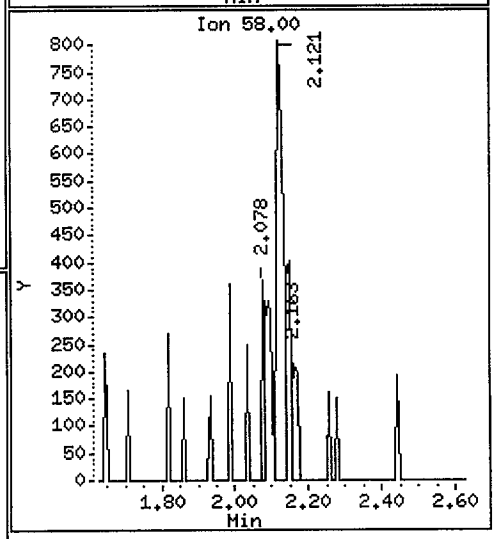
22 Acetone

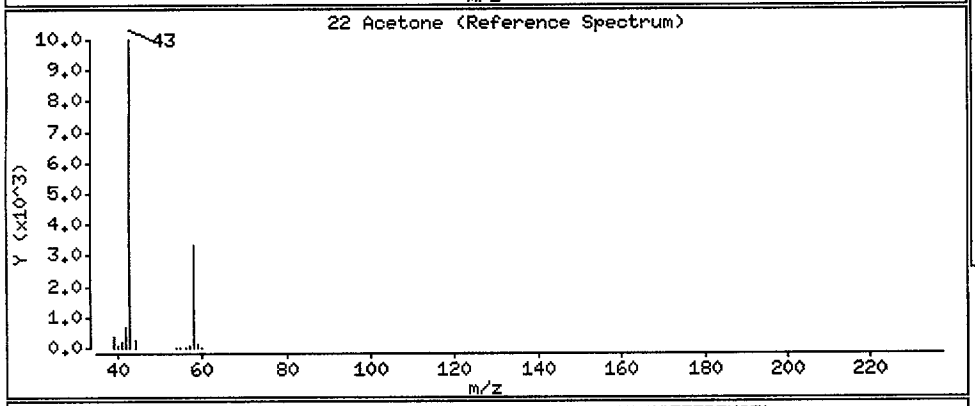
Concentration: 4.4212 ug/L

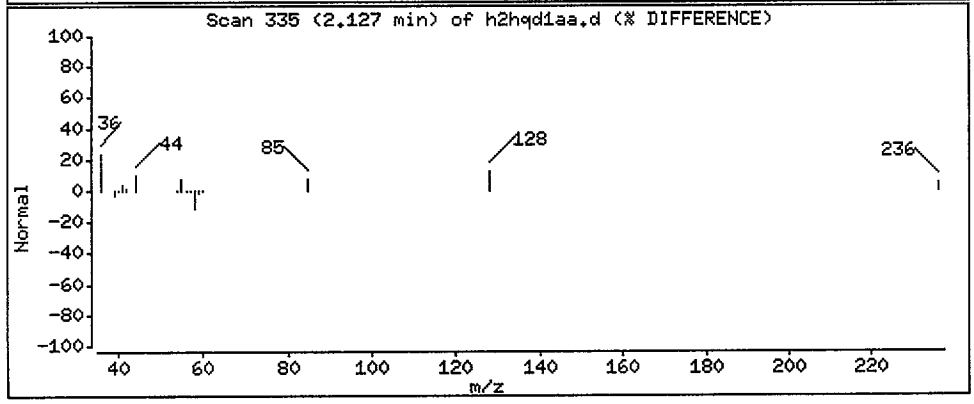












Data File: /chem/gcms/mz.i/Z040606.b/h2hqd1aa.d

Date : 06-APR-2006 17:33

Client ID: G-2905-R1-MAKE-UP W

Instrument: mz.i

Sample Info: H2HQD1AA,1,0,,

Purge Volume: 25.0

Operator: 063605

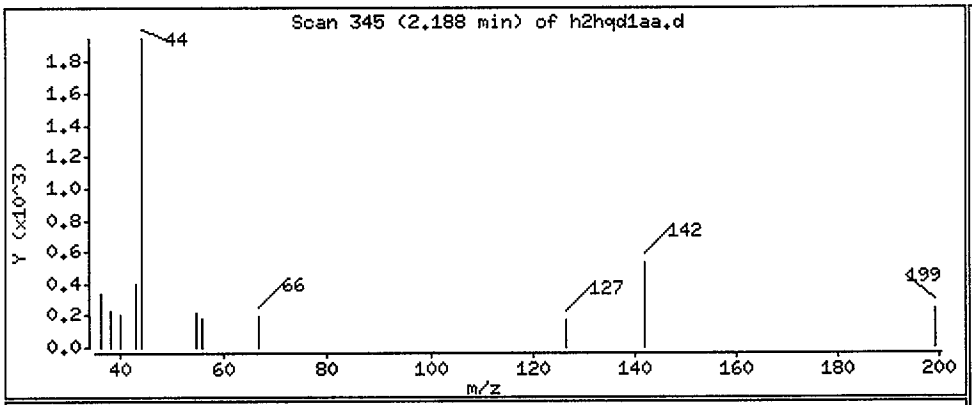
Column phase: J+W 624

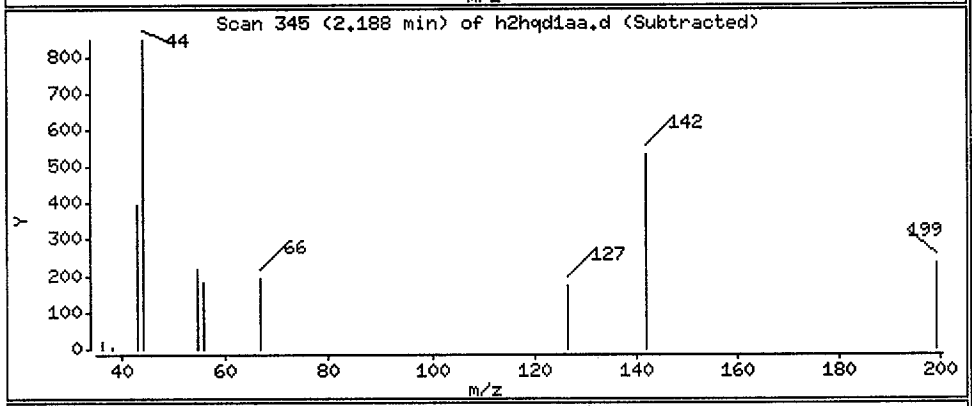
Column diameter: 0.18

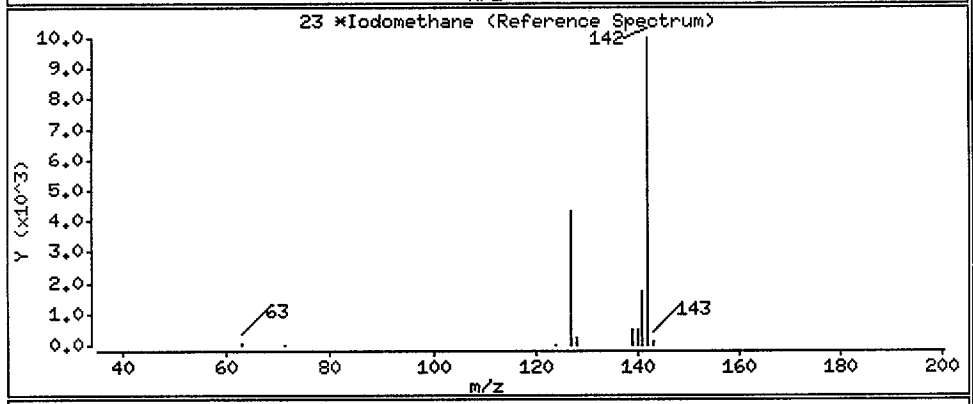
23 *Iodomethane

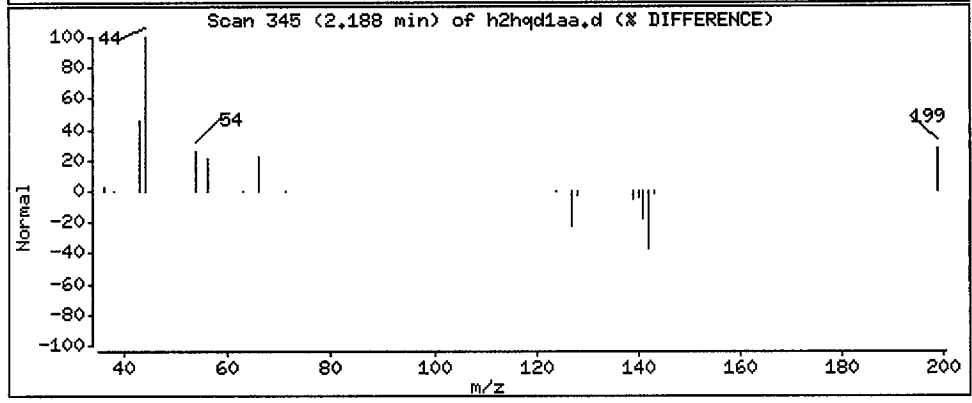
Concentration: 0.55586 ug/L

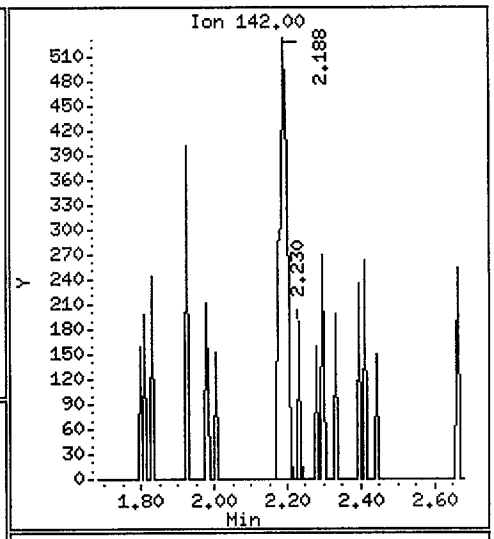
noise

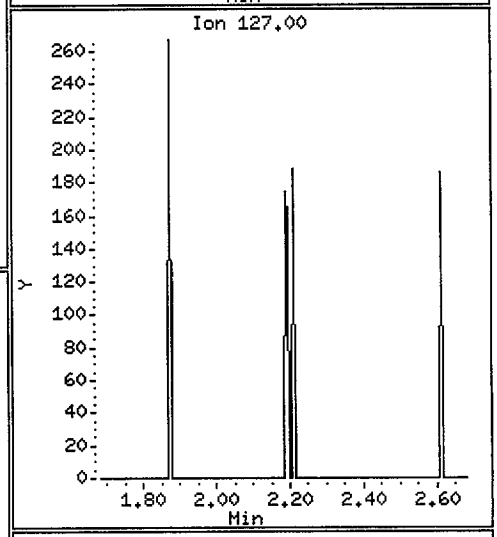


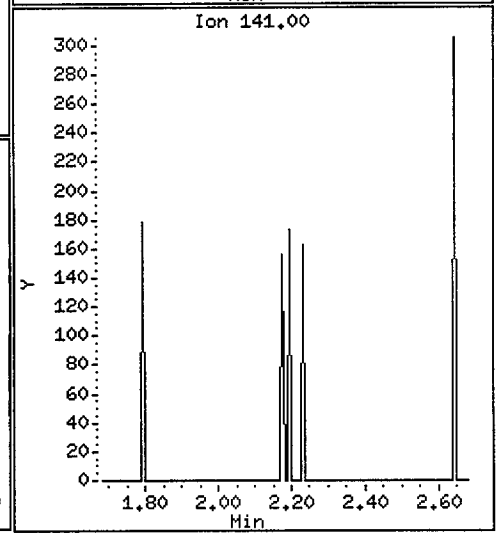












Data File: /chem/gcms/mz.i/Z040606.b/h2hqd1aa.d

Date : 06-APR-2006 17:33

Client ID: G-2905-R1-MAKE-UP W

Instrument: mz.i

Sample Info: H2HQD1AA,1,0,,

Purge Volume: 25.0

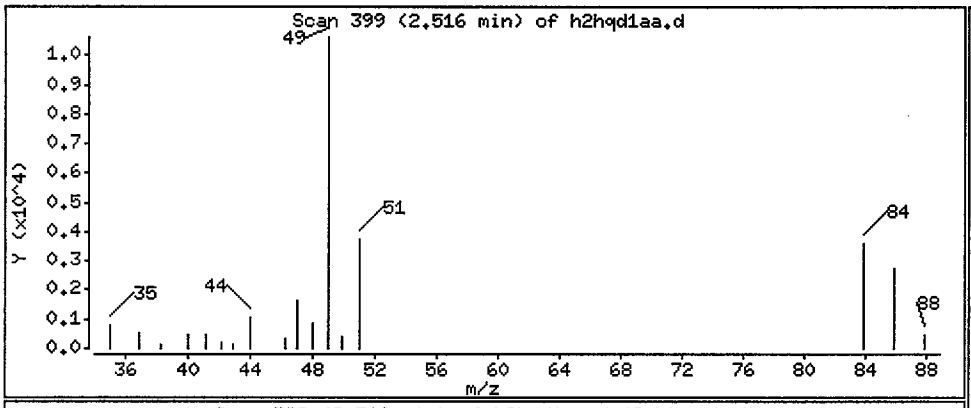
Operator: 063605

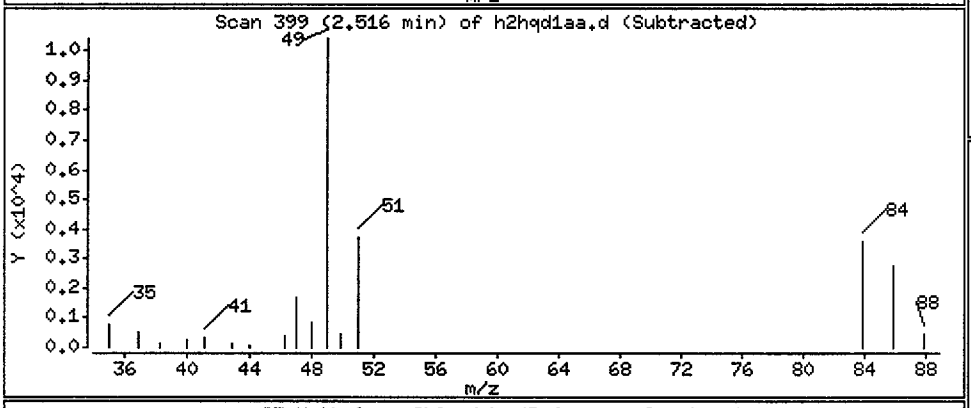
Column phase: J+W 624

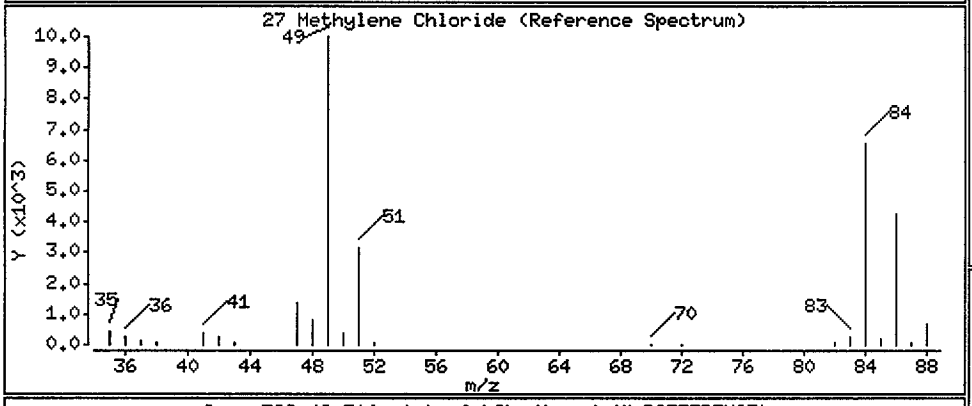
Column diameter: 0.18

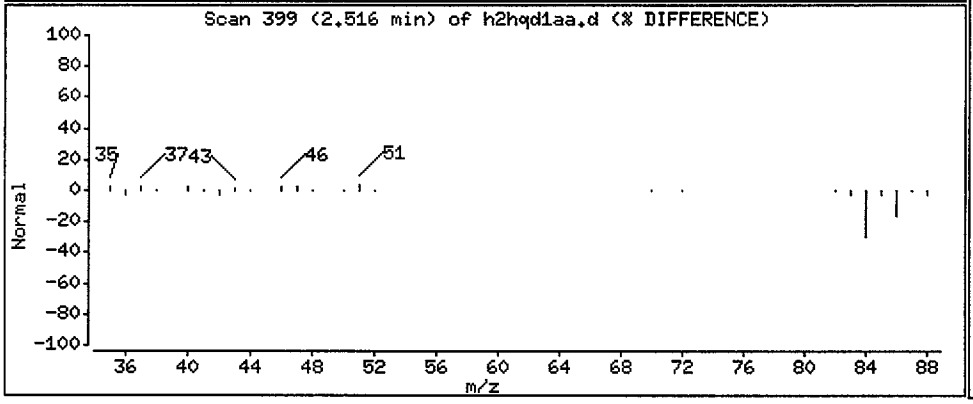
27 Methylene Chloride

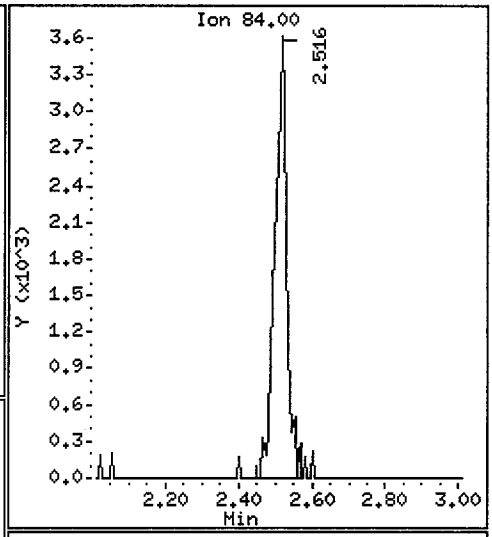
Concentration: 0.55459 ug/L

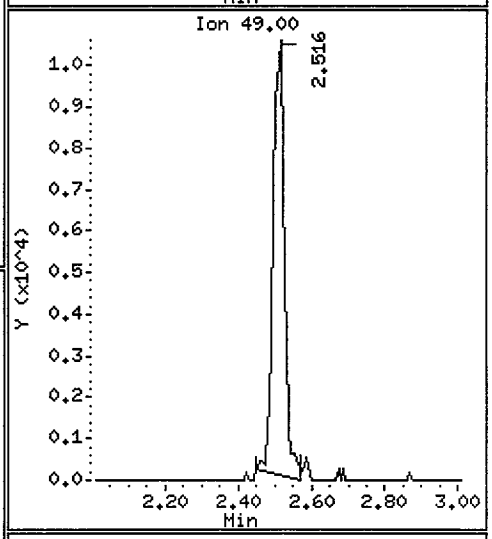


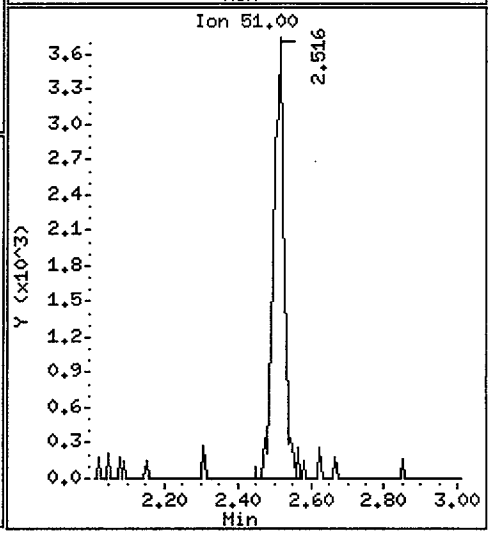












Data File: /chem/gcms/mz.i/Z040606.b/h2hqd1aa.d

Date : 06-APR-2006 17:33

Client ID: G-2905-R1-MAKE-UP W

Instrument: mz.i

Sample Info: H2HQD1AA,1,0,,

Purge Volume: 25.0

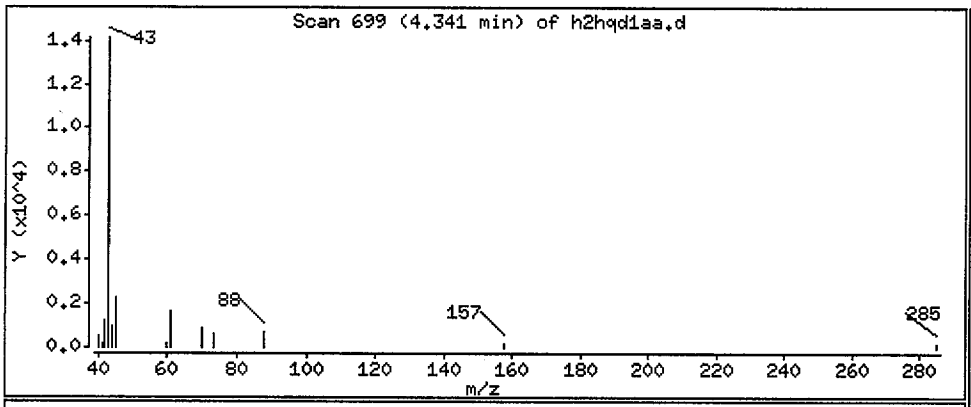
Operator: 063605

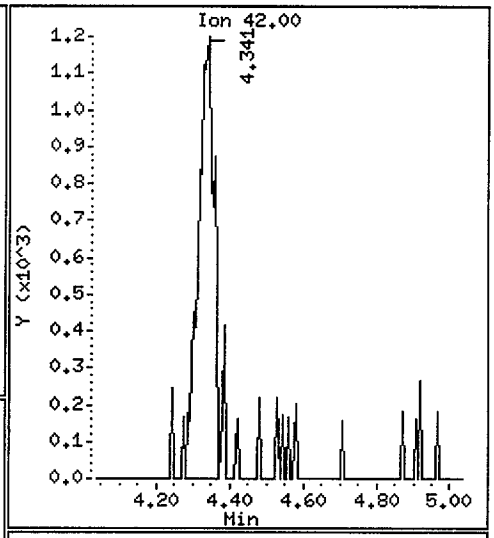
Column phase: J+W 624

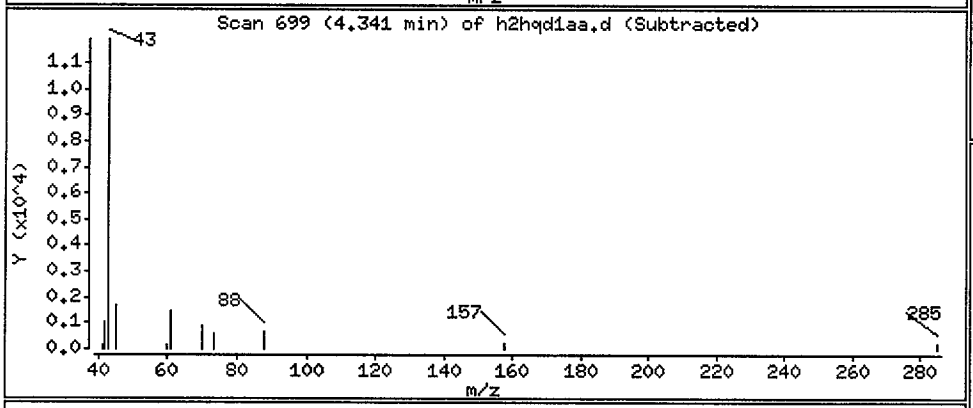
Column diameter: 0.18

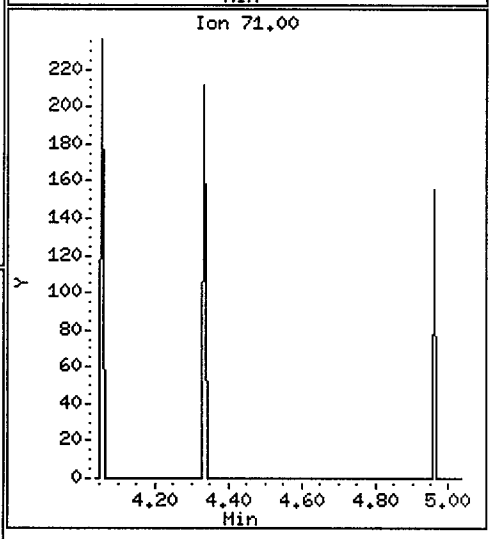
39 *THF

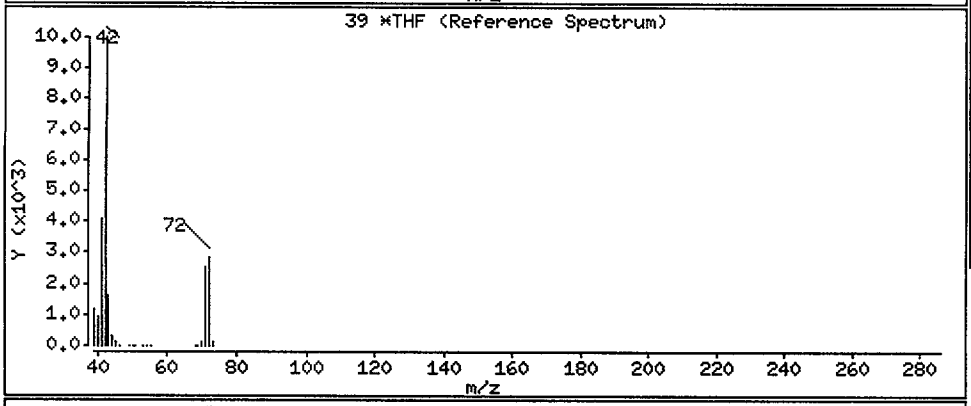
Concentration: 1.7080 ug/L

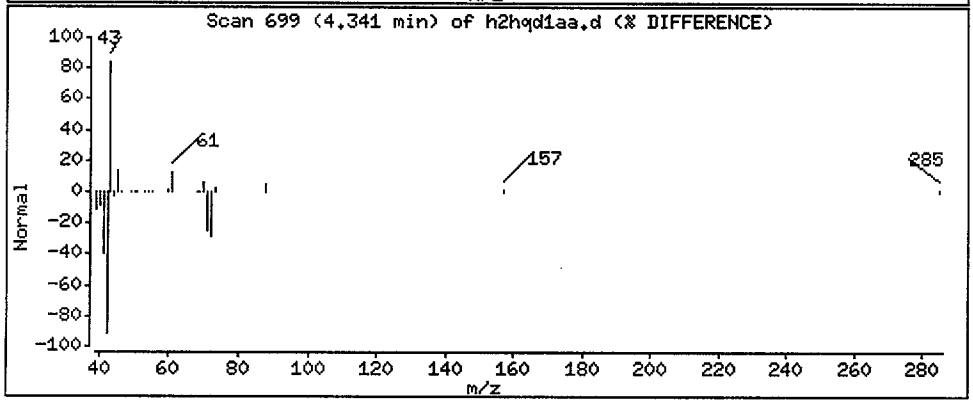












Data File: /chem/gcms/mz.i/Z040606.b/h2hqd1aa.d

Date : 06-APR-2006 17:33

Client ID: G-2905-R1-MAKE-UP W

Instrument: mz.i

Sample Info: H2HQD1AA,1,0,,

Purge Volume: 25.0

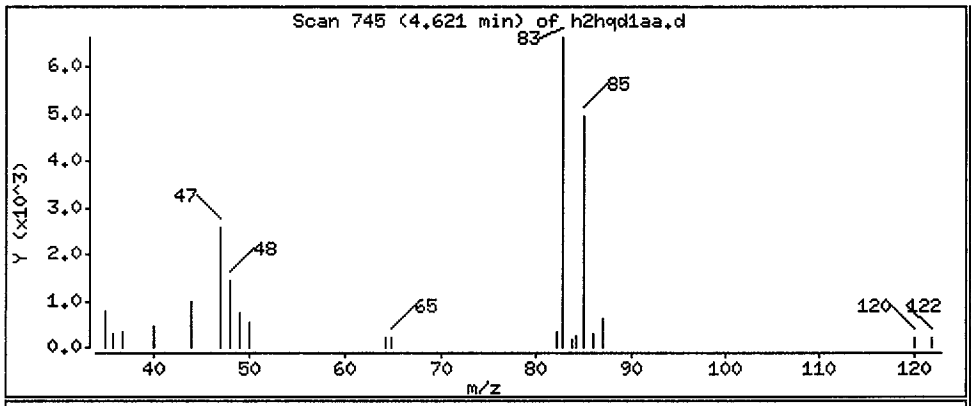
Operator: 063605

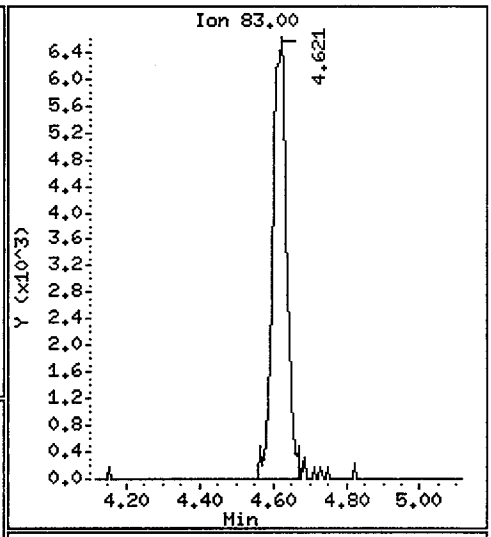
Column phase: J+W 624

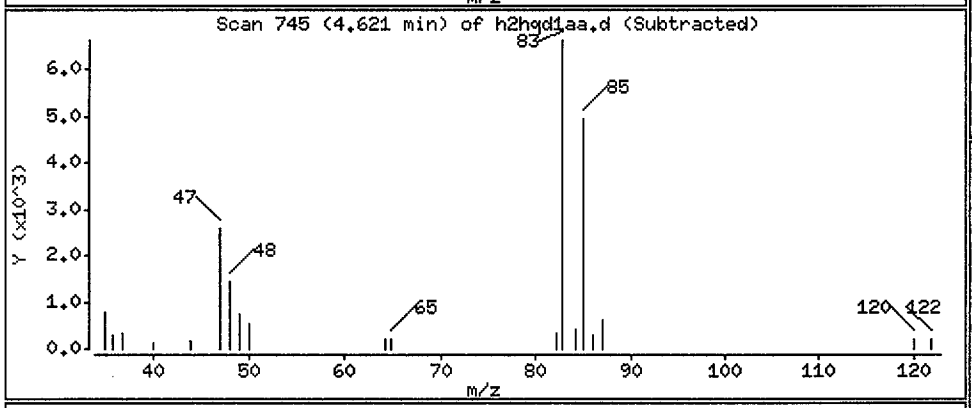
Column diameter: 0.18

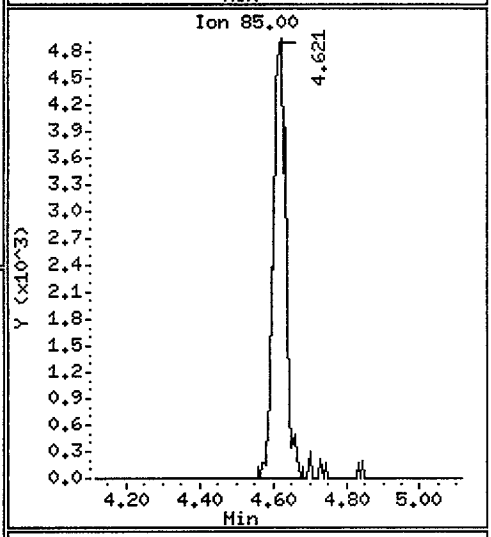
40 Chloroform (ccc)

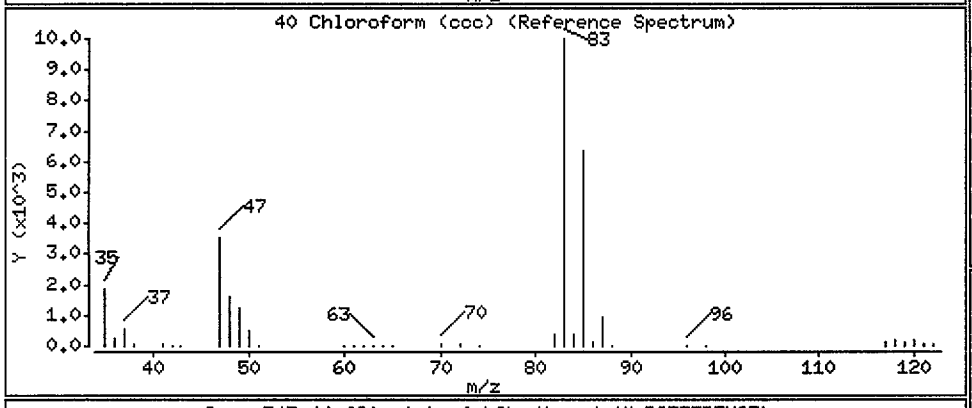
Concentration: 0.55624 ug/L

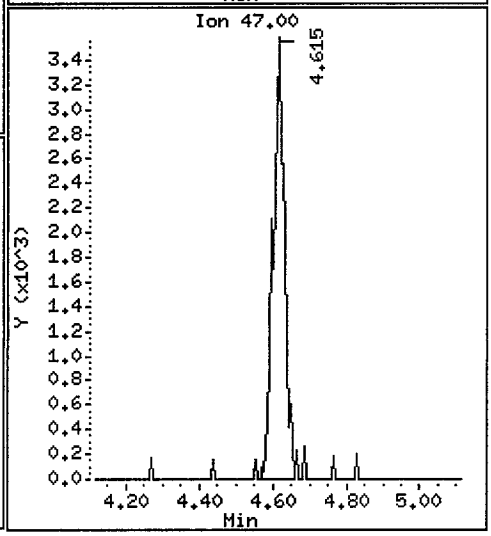


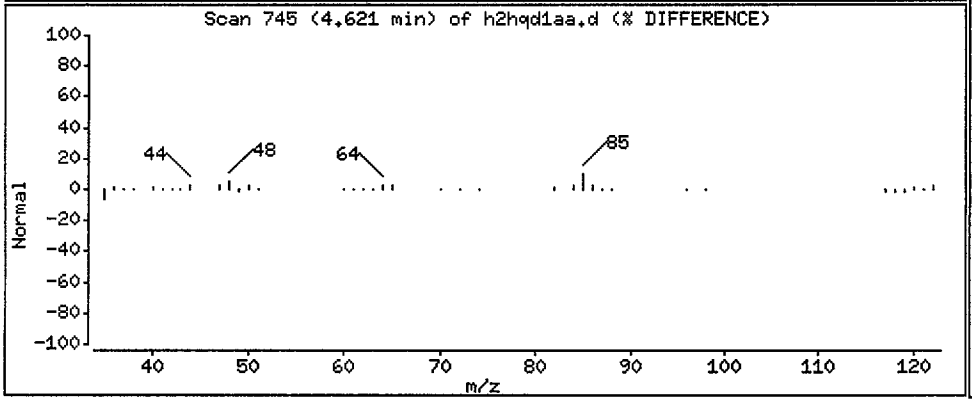












Data File: /chem/gcms/mz.i/Z040606.b/h2hqd1aa.d

Date : 06-APR-2006 17:33

Client ID: G-2905-R1-MAKE-UP W

Instrument: mz.i

Sample Info: H2HQD1AA,1,0,,

Purge Volume: 25.0

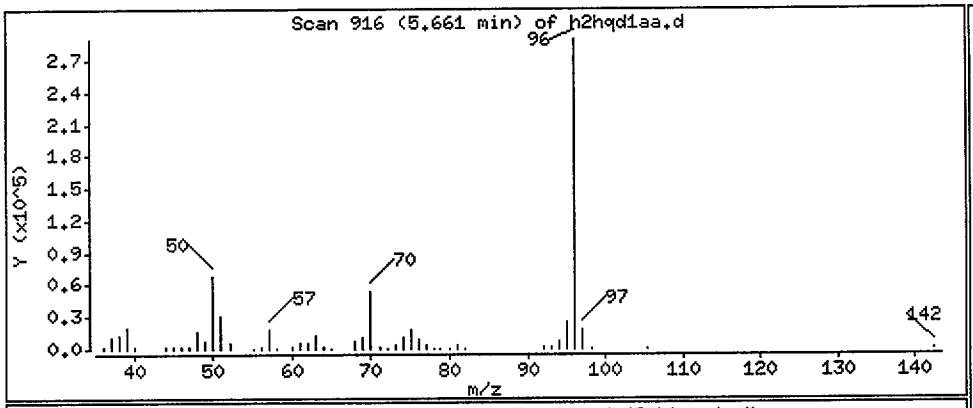
Operator: 063605

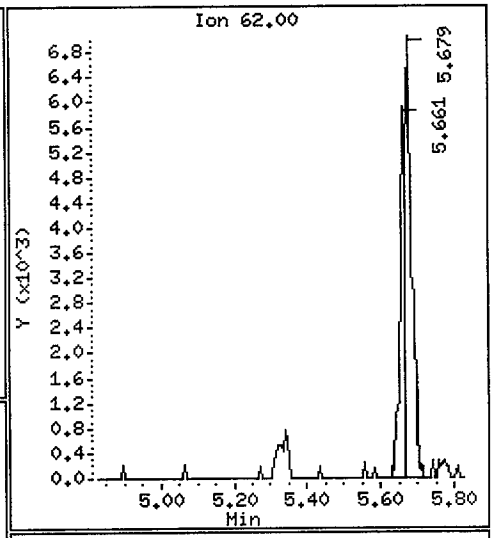
Column phase: J+W 624

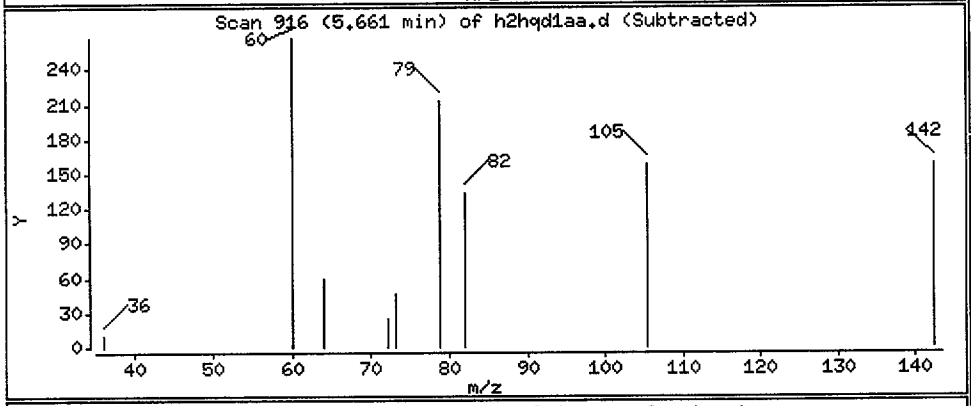
Column diameter: 0.18

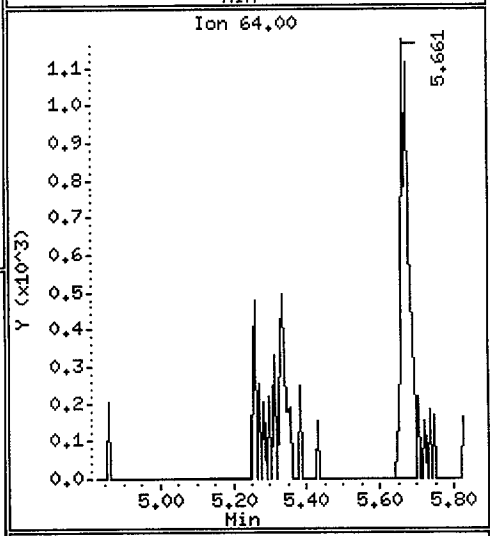
45 1,2-Dichloroethane

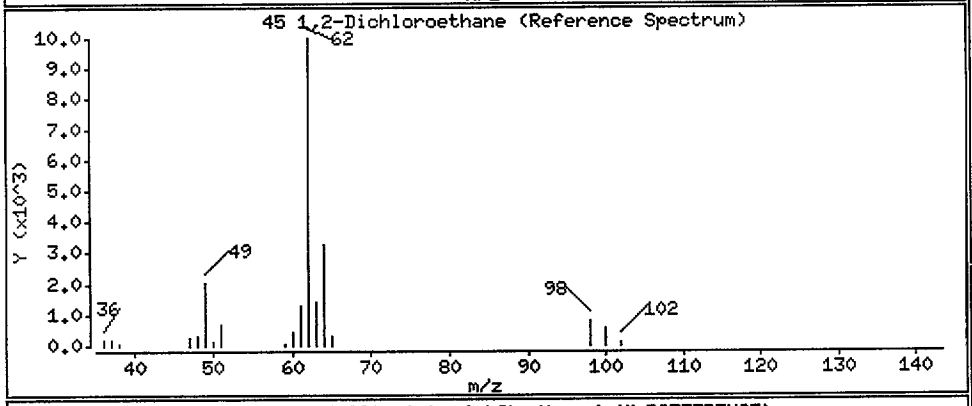
Concentration: 0.34395 ug/L

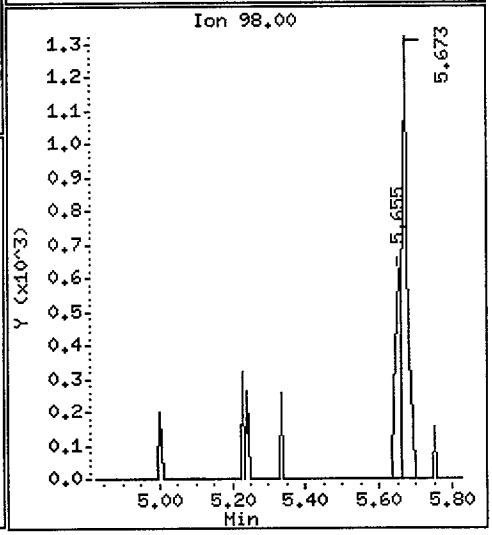


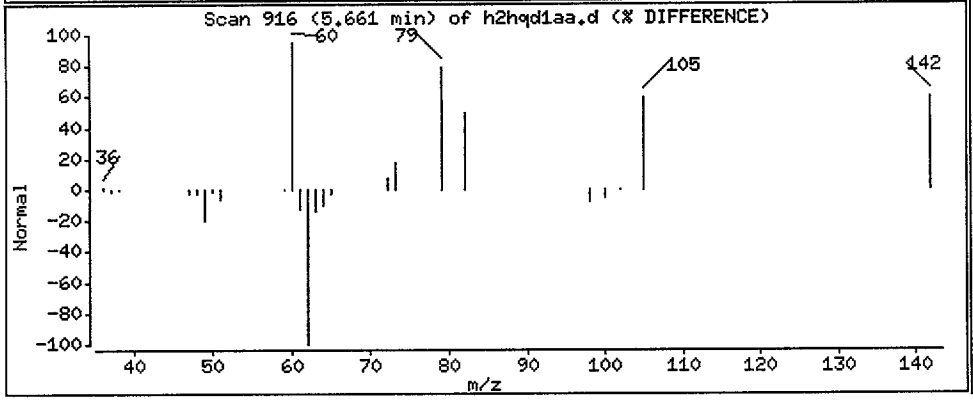












Data File: /chem/gcms/mz.i/Z040606.b/h2hqd1aa.d

Date : 06-APR-2006 17:33

Client ID: G-2905-R1-MAKE-UP W

Instrument: mz.i

Sample Info: H2HQD1AA,1,0,,

Purge Volume: 25.0

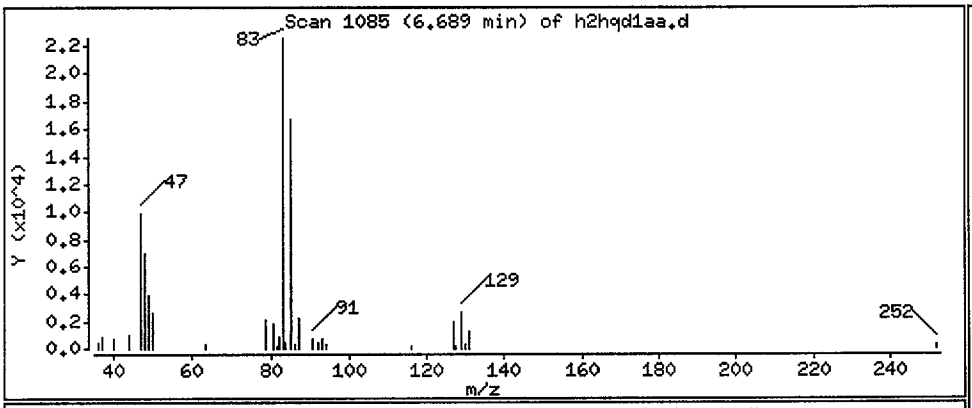
Operator: 063605

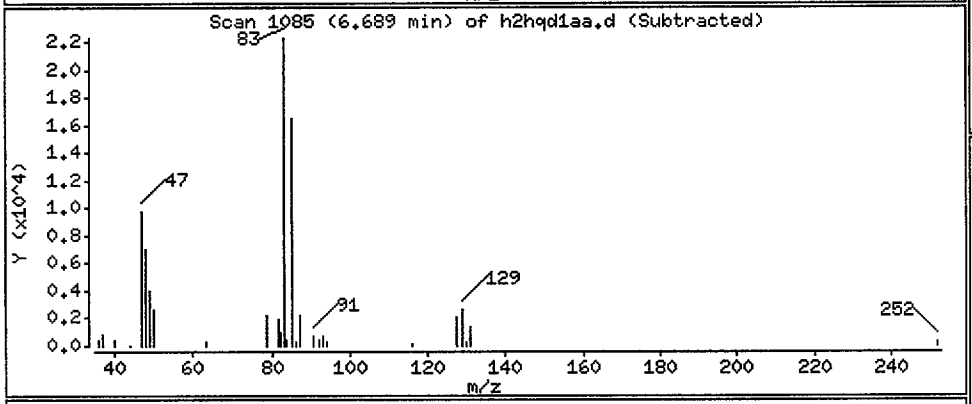
Column phase: J+W 624

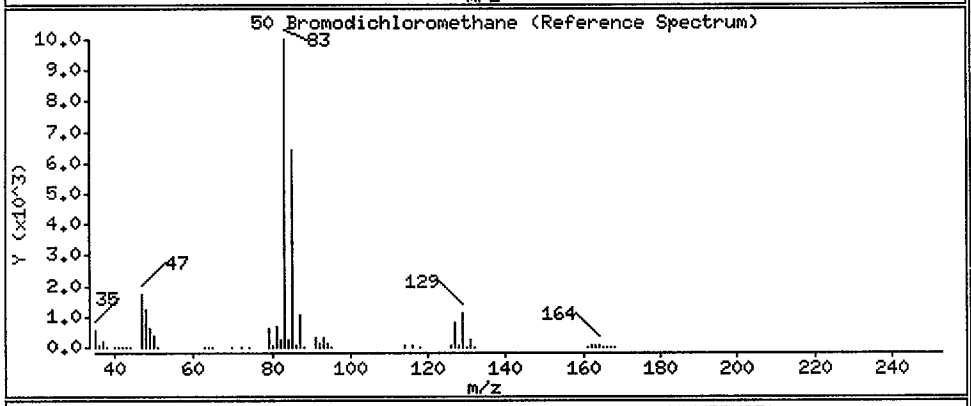
Column diameter: 0.18

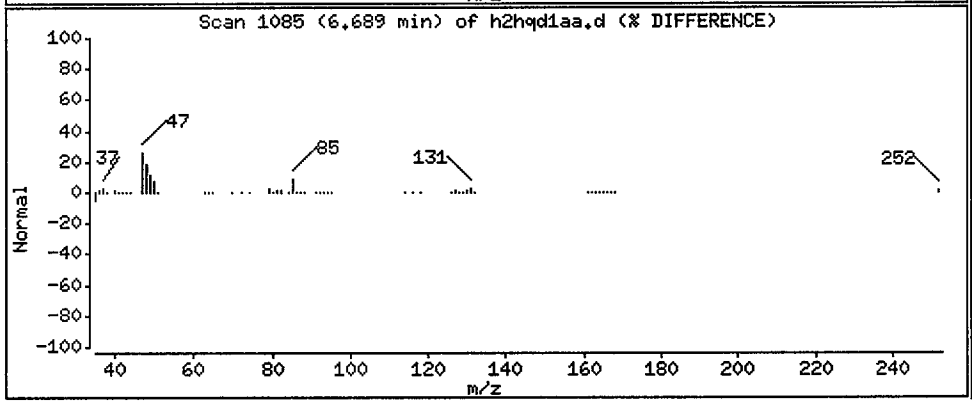
50 Bromodichloromethane

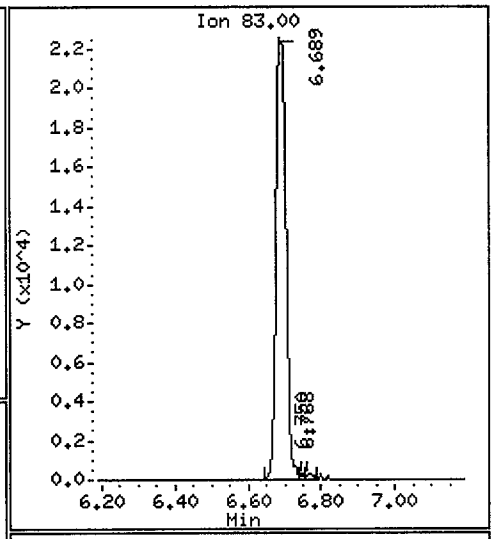
Concentration: 3.2372 ug/L

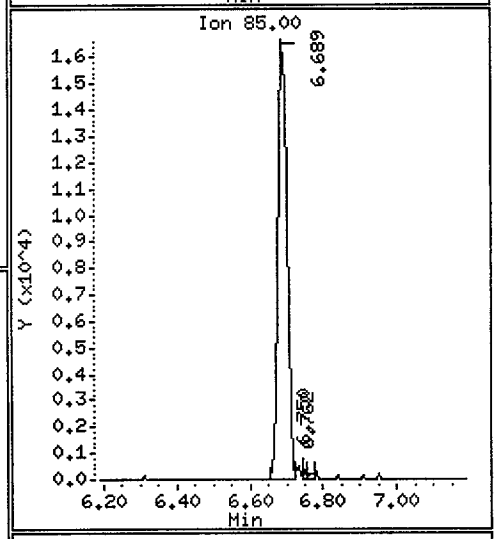


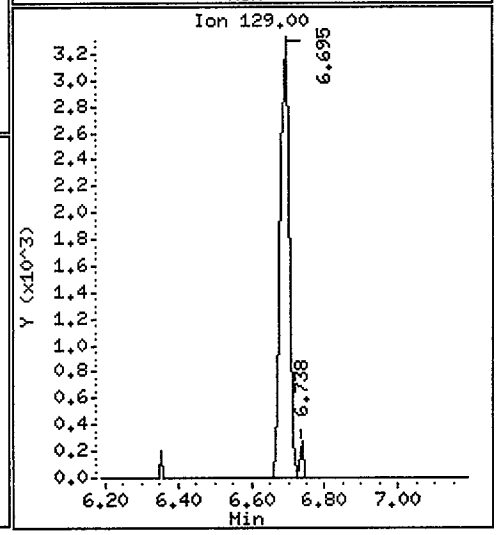












Data File: /chem/gcms/mz.i/Z040606.b/h2hqd1aa.d

Date : 06-APR-2006 17:33

Client ID: G-2905-R1-MAKE-UP W

Instrument: mz.i

Sample Info: H2HQD1AA,1,0,,

Purge Volume: 25.0

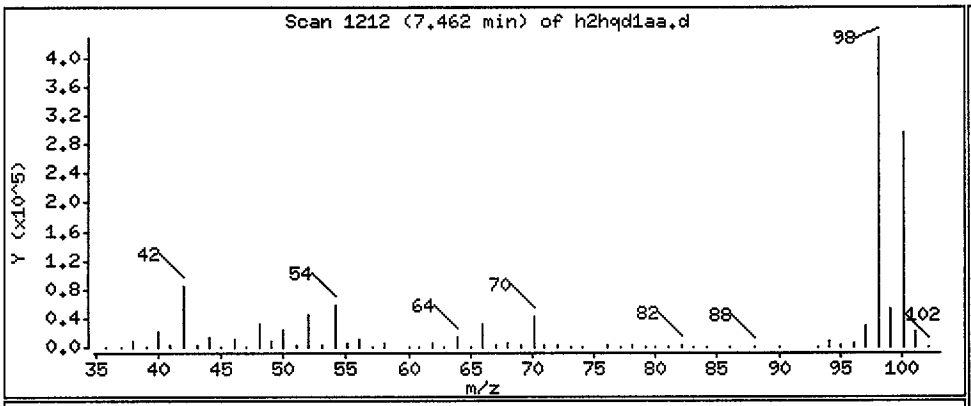
Operator: 063605

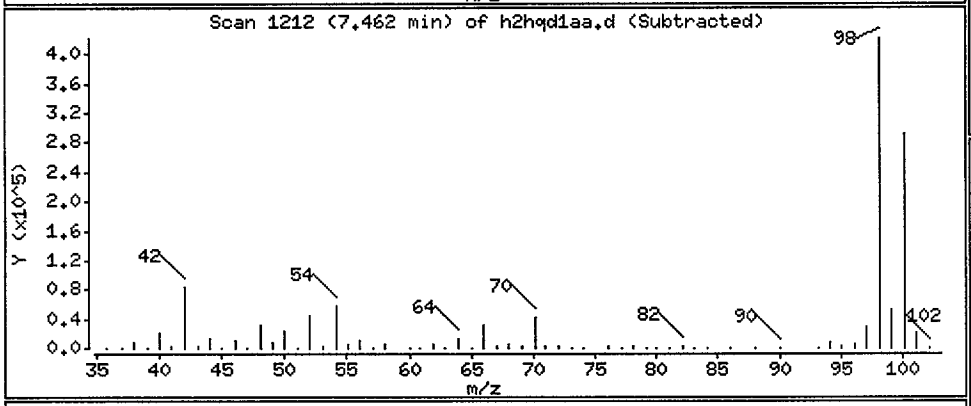
Column phase: J+W 624

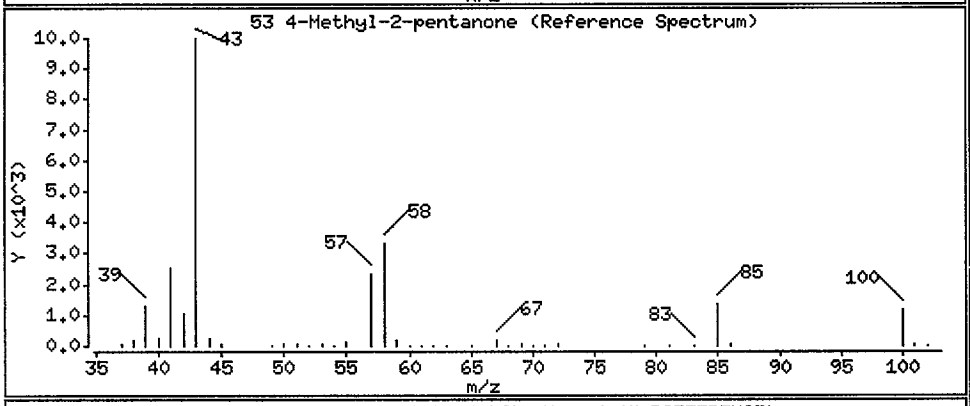
Column diameter: 0.18

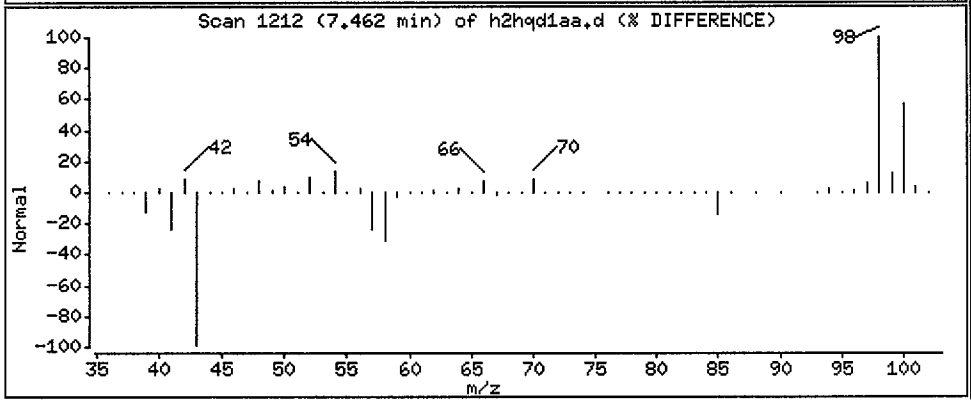
53 4-Methyl-2-pentanone

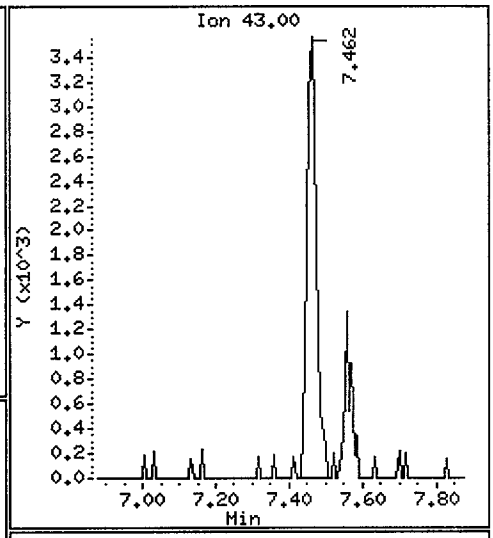
Concentration: 0.81080 ug/L

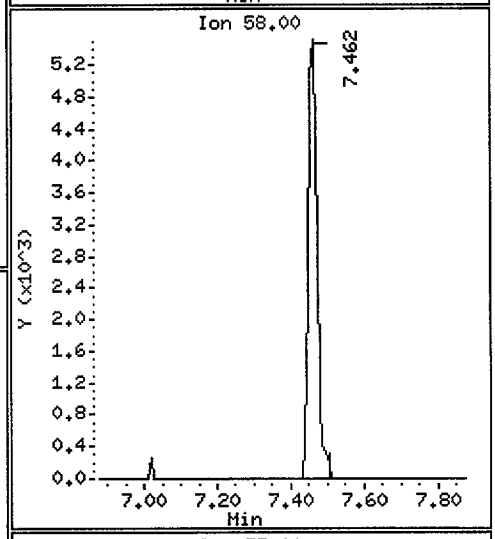


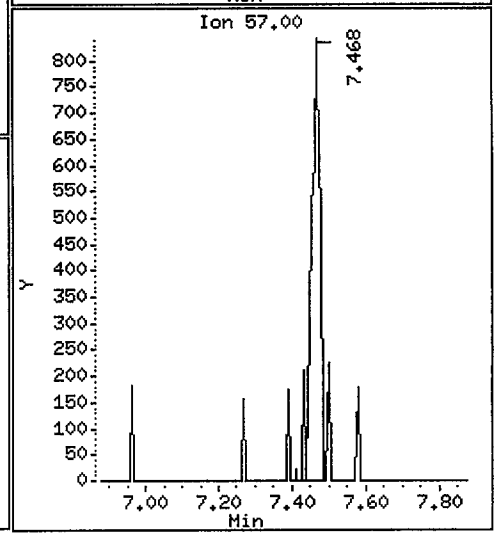












Data File: /chem/gcms/mz.i/Z040606.b/h2hqd1aa.d

Date : 06-APR-2006 17:33

Client ID: G-2905-R1-MAKE-UP W

Instrument: mz.i

Sample Info: H2HQD1AA,1,0,,

Purge Volume: 25.0

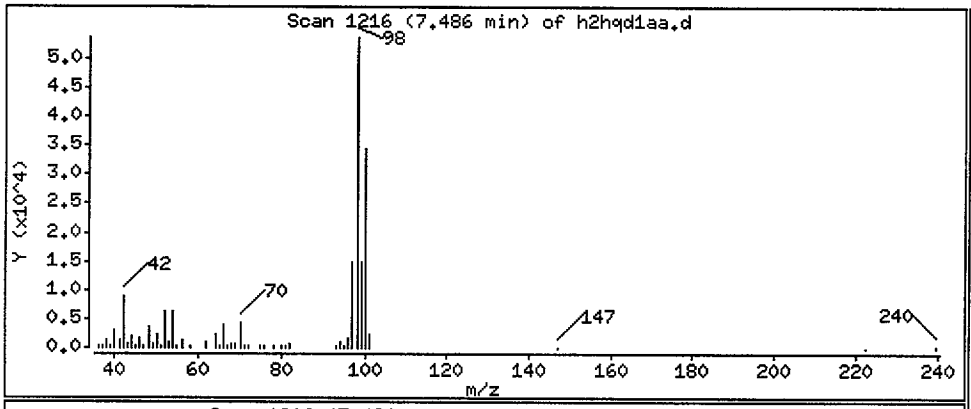
Operator: 063605

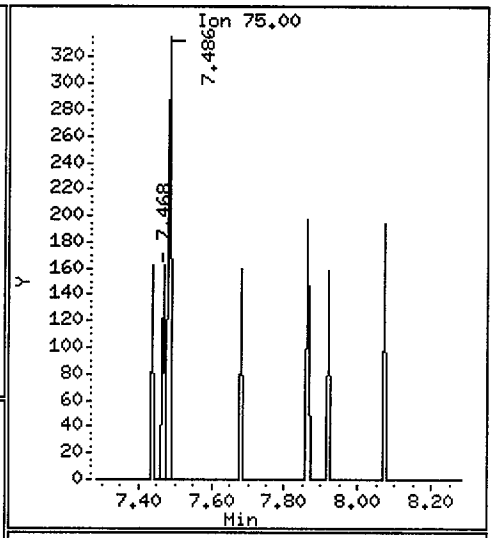
Column phase: J+W 624

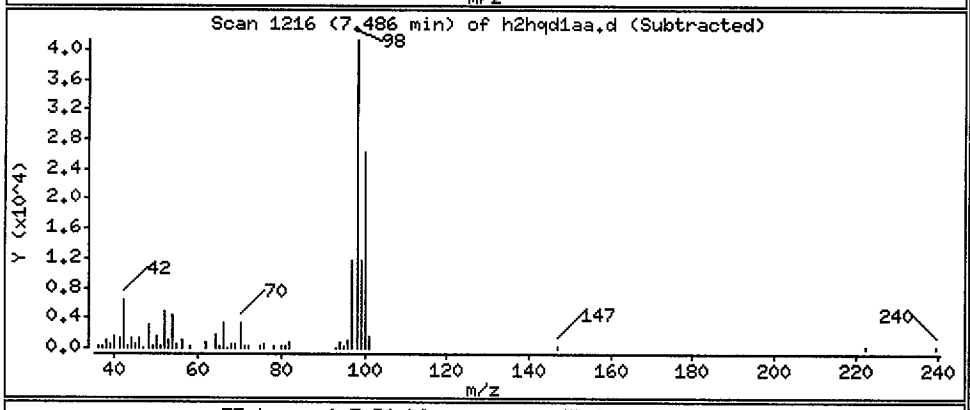
Column diameter: 0.18

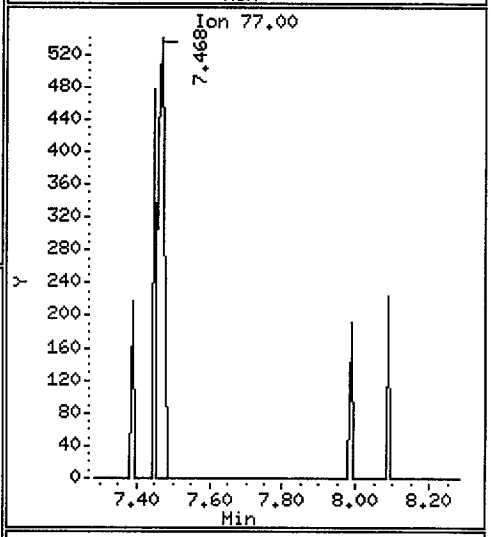
55 trans-1,3-Dichloropropene

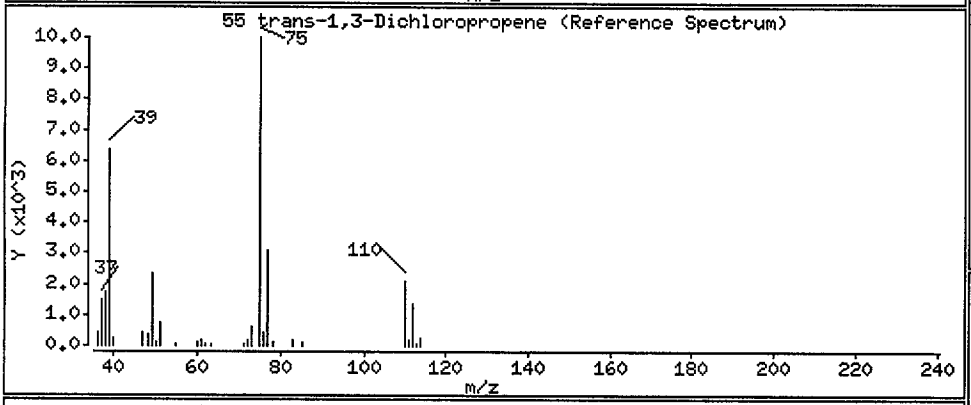
Concentration: 0.63951 ug/L

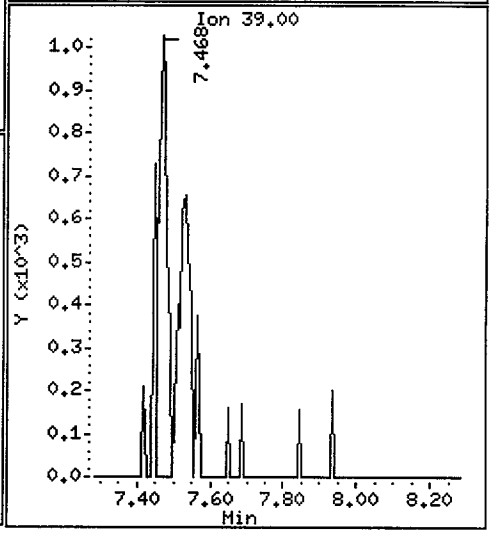


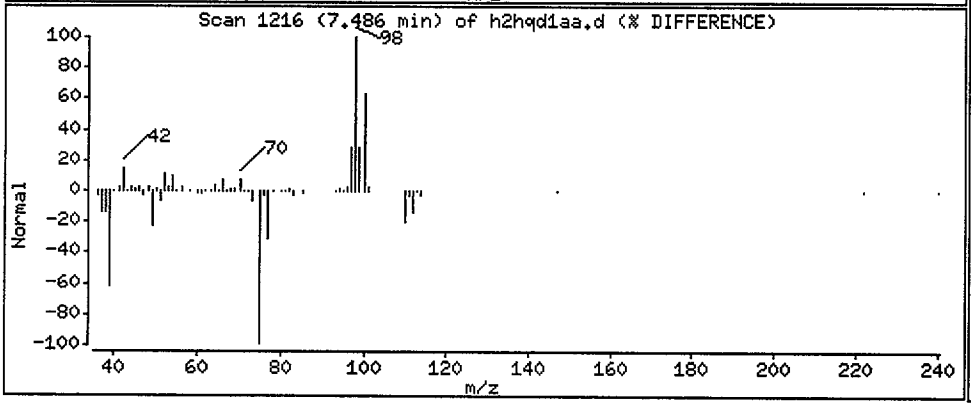












Data File: /chem/gcms/mz.i/Z040606.b/h2hqd1aa.d

Date : 06-APR-2006 17:33

Client ID: G-2905-R1-MAKE-UP W

Instrument: mz.i

Sample Info: H2HQD1AA,1,0,,

Purge Volume: 25.0

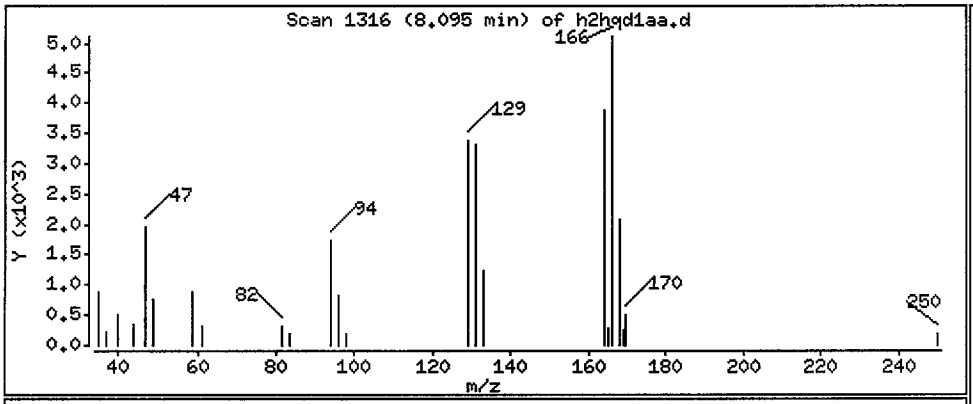
Operator: 063605

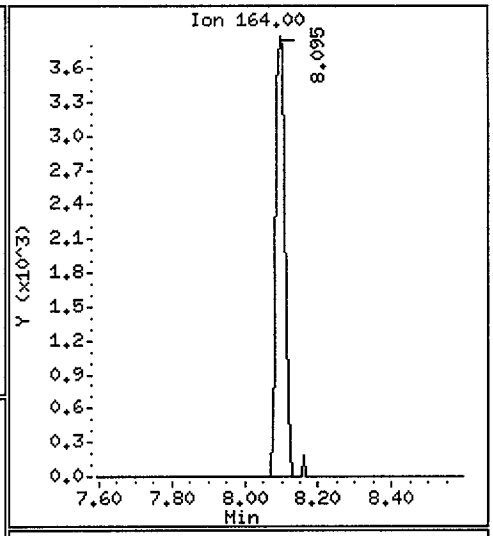
Column phase: J+W 624

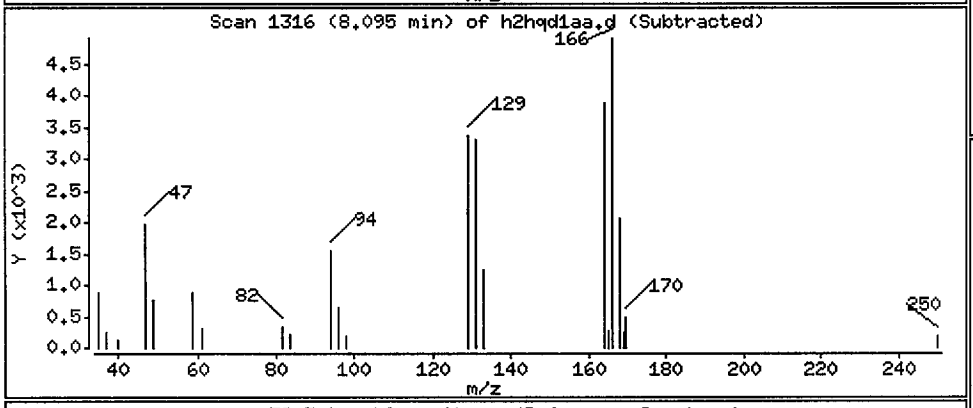
Column diameter: 0.18

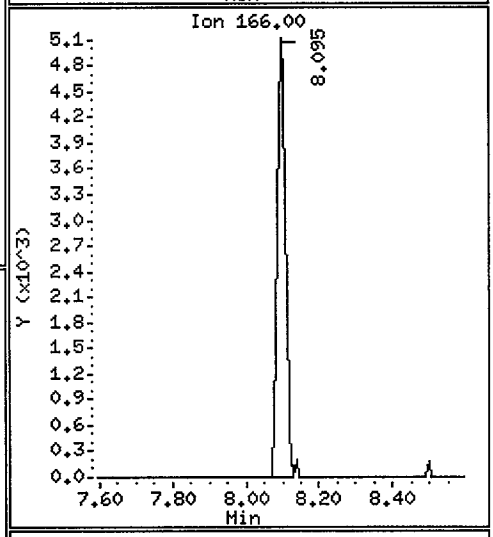
58 Tetrachloroethene

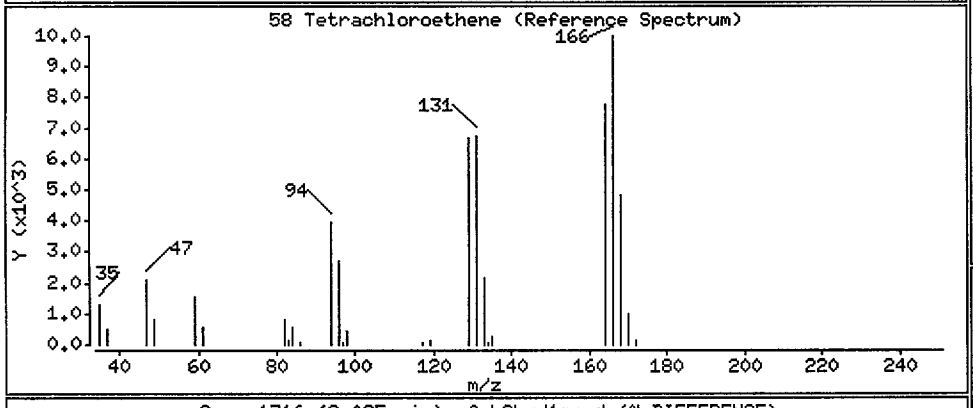
Concentration: 0.33412 ug/L

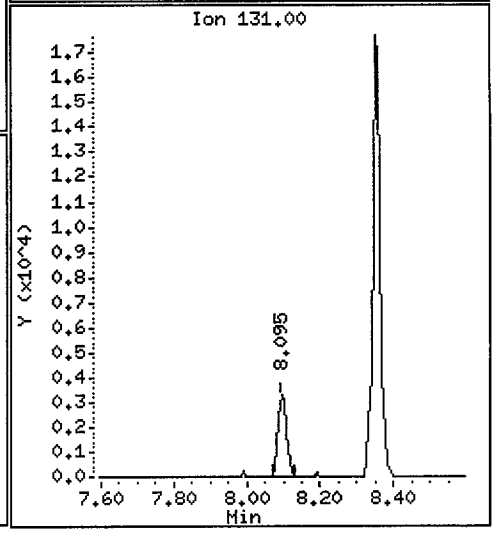


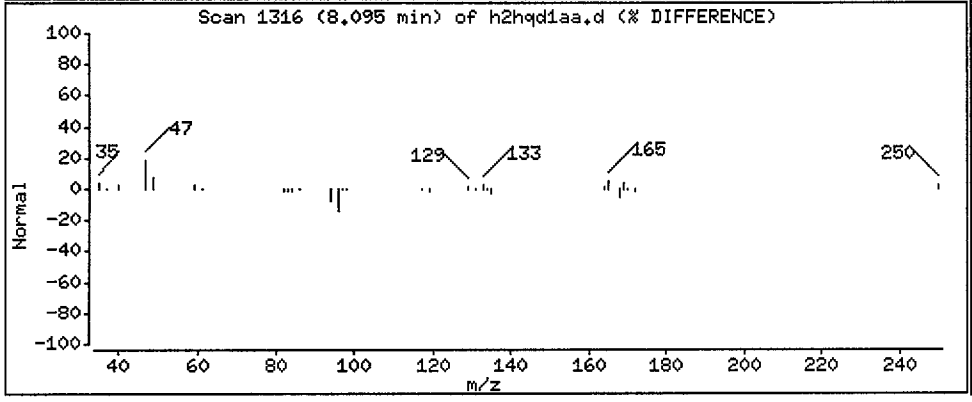












Data File: /chem/gcms/mz.i/Z040606.b/h2hqd1aa.d

Date : 06-APR-2006 17:33

Client ID: G-2905-R1-MAKE-UP W

Instrument: mz.i

Sample Info: H2HQD1AA,1,0,,

Purge Volume: 25.0

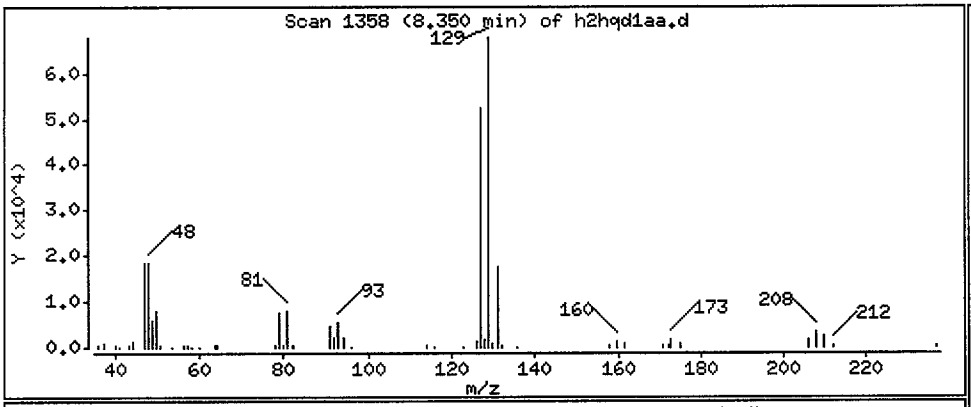
Operator: 063605

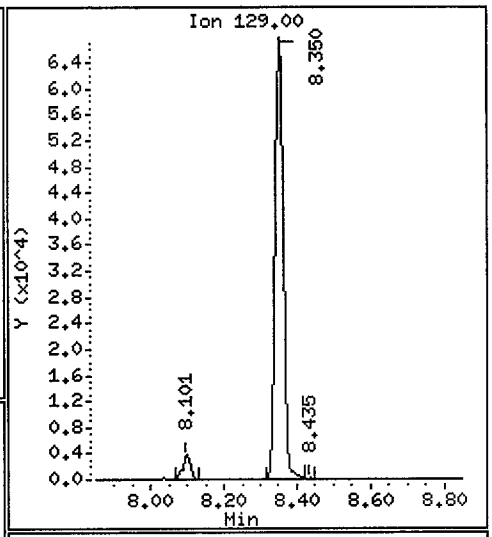
Column phase: J+W 624

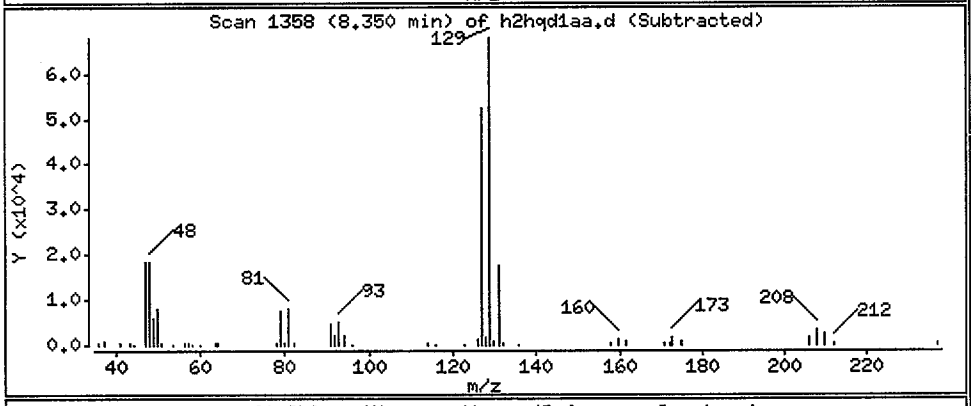
Column diameter: 0.18

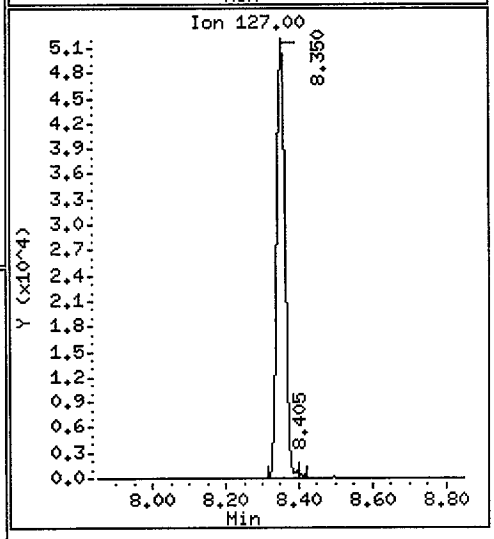
61 Chlorodibromomethane

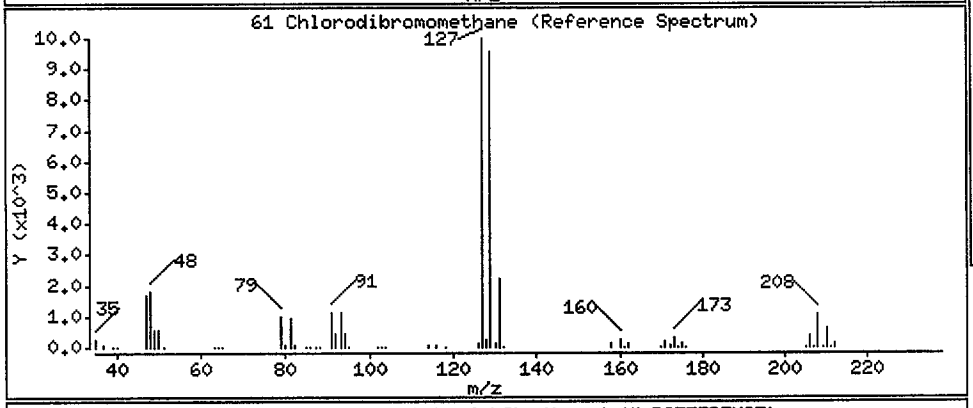
Concentration: 12.591 ug/L

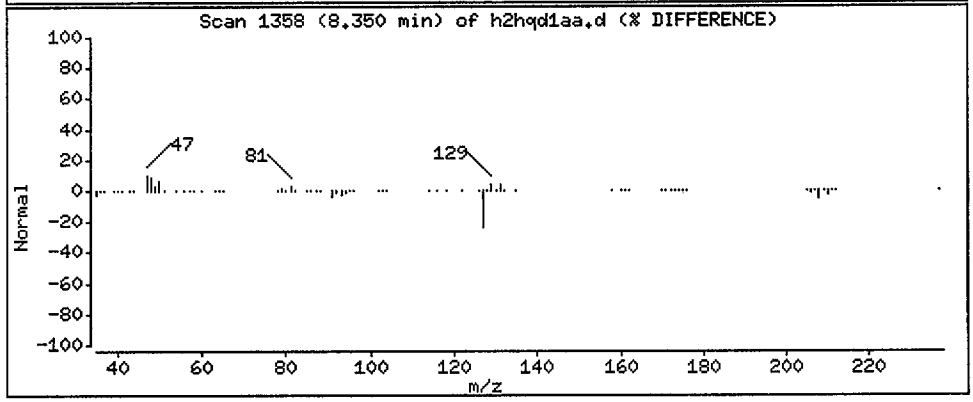












Data File: /chem/gcms/mz.i/Z040606.b/h2hqd1aa.d

Date : 06-APR-2006 17:33

Client ID: G-2905-R1-MAKE-UP W

Instrument: mz.i

Sample Info: H2HQD1AA,1,0,,

Purge Volume: 25.0

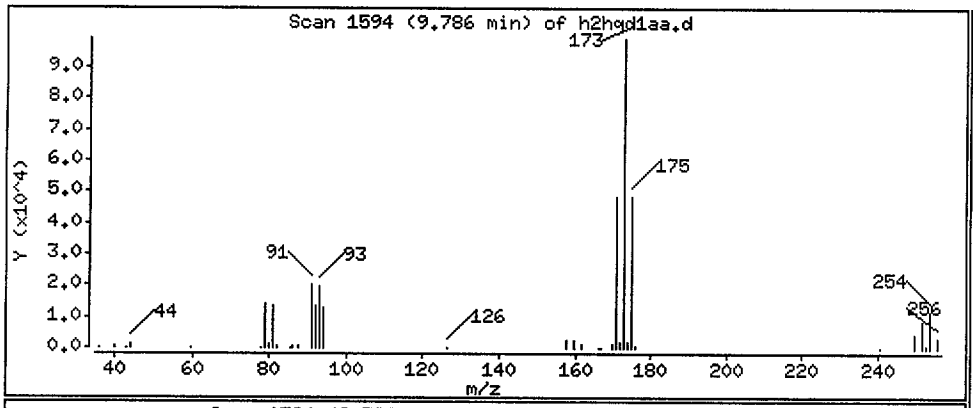
Operator: 063605

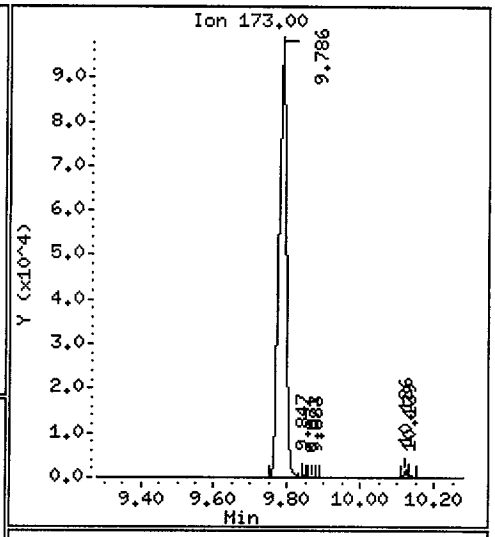
Column phase: J+W 624

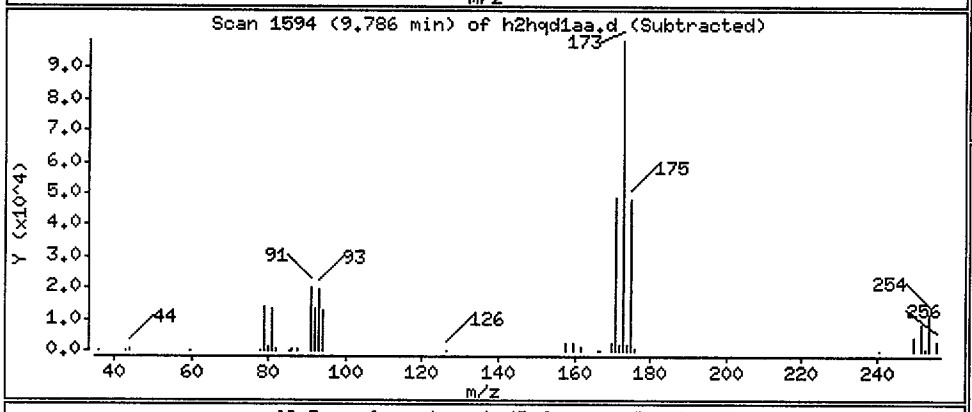
Column diameter: 0.18

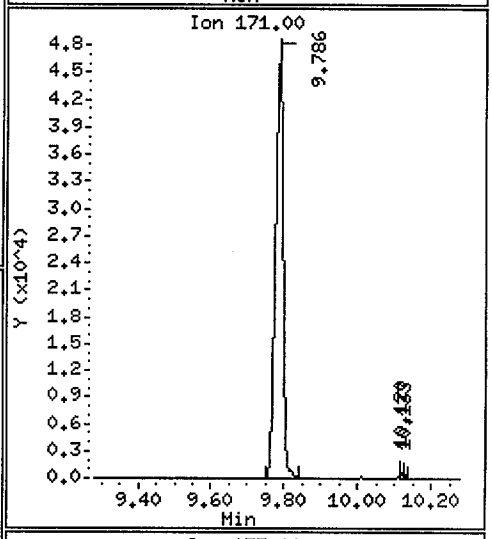
69 Bromoform (spcc)

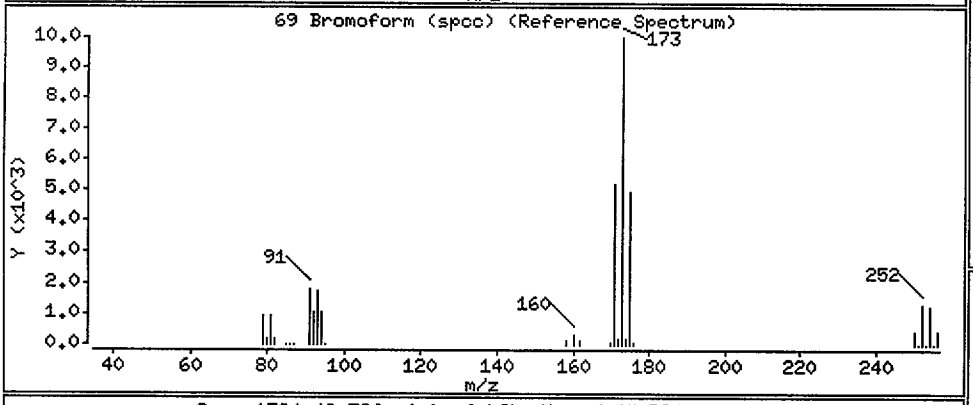
Concentration: 40.399 ug/L

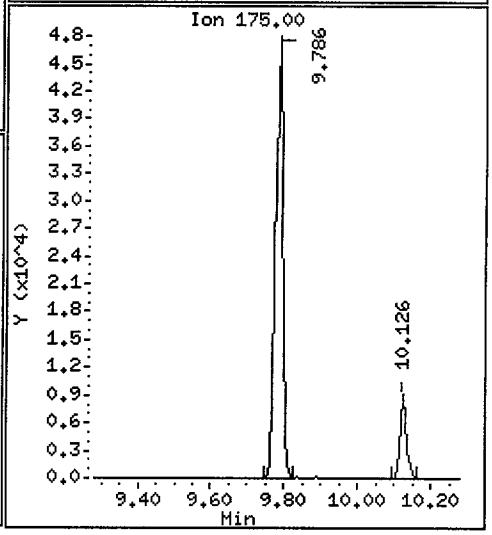


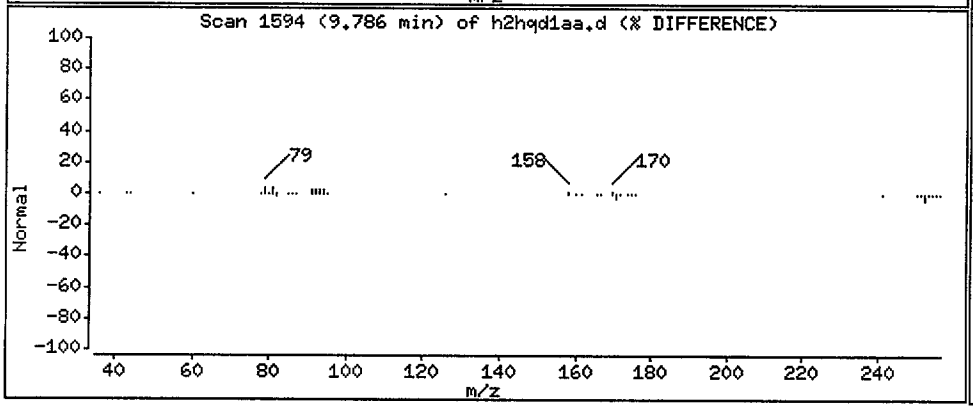












Data File: /var/chem/gcms/mz.i/Z040606.b/h2hqd1aa.d
Report Date: 10-Apr-2006 15:56

STL Knoxville

Volatile Organics by GC/MS

Data file : /var/chem/gcms/mz.i/Z040606.b/h2hqd1aa.d
Lab Smp Id: H2HQD1AA Client Smp ID: G-2905-R1-MAKE-UP W
Inj Date : 06-APR-2006 17:33
Operator : 063605 Inst ID: mz.i
Smp Info : H2HQD1AA,1,0,,
Misc Info : Z040606,8260B_LM,focus.sub
Comment : Volatile Organics by GC/MS
Method : /var/chem/gcms/mz.i/Z040606.b/8260B_LM.m
Meth Date : 07-Apr-2006 16:31 tillerm Quant Type: ISTD
Cal Date : 24-MAR-2006 13:51 Cal File: icvzc248.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: focus.sub
Target Version: 3.50
Processing Host: qmidhp01

Concentration Formula: Amt * DF * Uf*Vt/(Vo*1000) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Unit Correction factor
Vt	25000.00000	Sample Volume Purged
Vo	25.00000	Sample Volume Used

Cpnd Variable Local Compound Variable

ISTD	RT	HEIGHT	AMOUNT
* 1 Fluorobenzene	5.673	967692	10.000

	CONCENTRATIONS			QUANT		
RT	HEIGHT	ON-COL(ug/L)	FINAL(ug/L)	QUAL	LIBRARY	LIB ENTRY	CPND #
Carbon dioxide			CAS #: 124-38-9				
0.916	9145208	94.5053591	94.505	5	NIST05.1	80	1

MT 4/10/06

Data File: /var/chem/gcms/mz.i/Z040606.b/h2hqd1aa.d

Date : 06-APR-2006 17:33

Client ID: G-2905-R1-MAKE-UP W

Instrument: mz.i

Sample Info: H2HQD1AA,1,0,,

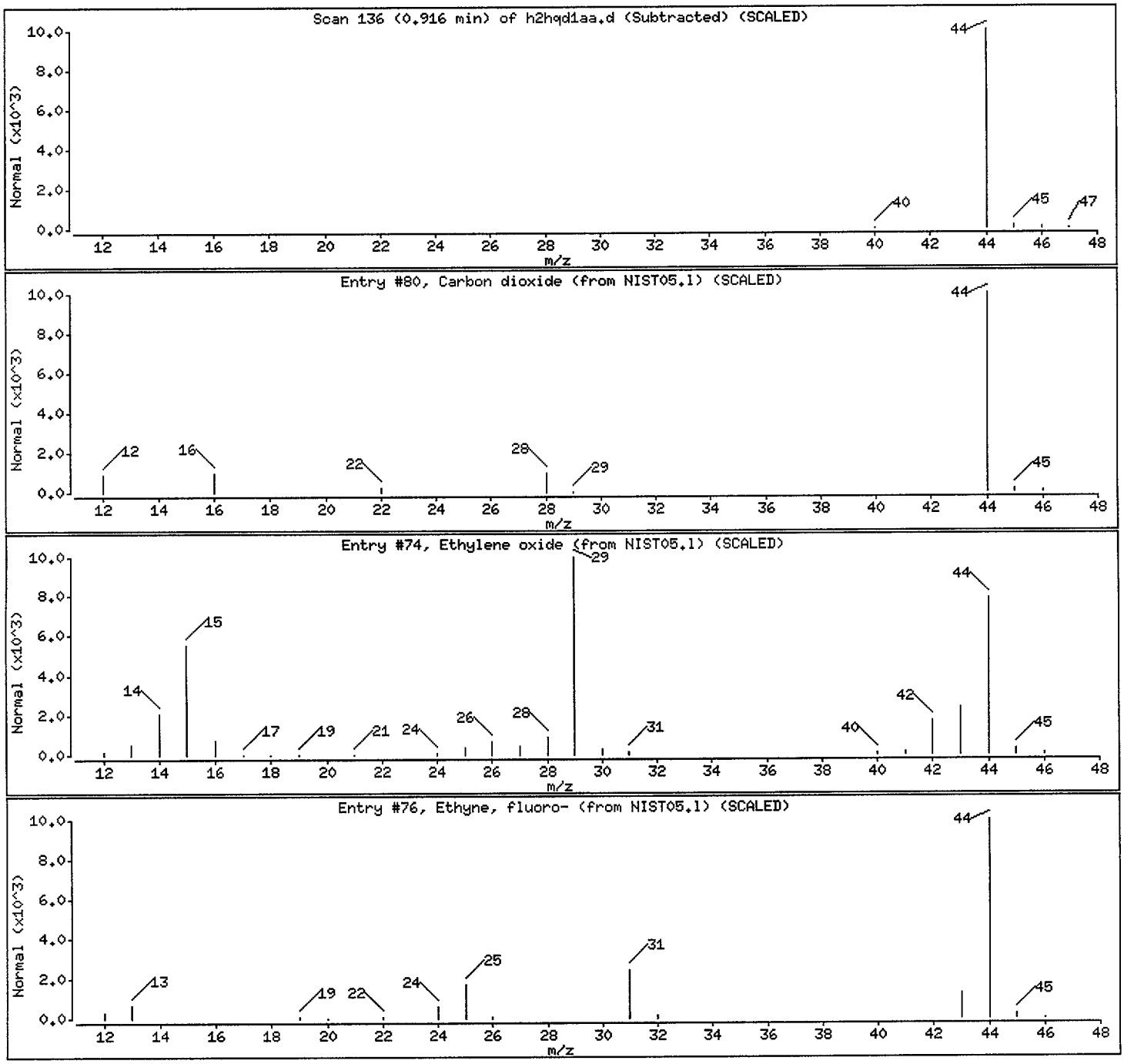
Purge Volume: 25.0

Operator: 063605

Column phase: J+W 624

Column diameter: 0.18

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Carbon dioxide	124-38-9	NIST05.l	80	5	CO2	44
Ethylene oxide	75-21-8	NIST05.l	74	3	C2H4O	44
Ethyne, fluoro-	2713-09-9	NIST05.l	76	3	C2HF	44



STL Knoxville - ACS

Client Sample ID: G-2987-R2-SPENT ACTIVATED CARBON

GC/MS Volatiles

Lot-Sample #...: H6D030205-006 **Work Order #...:** H2HQR1AA **Matrix.....:** SOLID
Date Sampled...: 03/29/06 **Date Received..:** 04/02/06
Prep Date.....: 04/04/06 **Analysis Date..:** 04/04/06
Prep Batch #...: 6094386
Dilution Factor: 5 **Method.....:** SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	**3600 J,B**	**5000**	**ug/kg**	**1200**
Acrylonitrile	ND	25000	ug/kg	3800
Benzene	**1700**	**1200**	**ug/kg**	**140**
Bromobenzene	ND	1200	ug/kg	260
Bromochloromethane	ND	1200	ug/kg	170
Bromodichloromethane	ND	1200	ug/kg	120
Bromoform	ND	1200	ug/kg	210
Bromomethane	**750 J,B**	**2500**	**ug/kg**	**700**
2-Butanone	**3200 J**	**5000**	**ug/kg**	**1000**
n-Butylbenzene	ND	1200	ug/kg	380
sec-Butylbenzene	ND	1200	ug/kg	380
tert-Butylbenzene	ND	1200	ug/kg	340
Carbon disulfide	ND	1200	ug/kg	150
Carbon tetrachloride	ND	1200	ug/kg	120
Chlorobenzene	ND	1200	ug/kg	130
Chlorodibromomethane	ND	1200	ug/kg	120
Chloroethane	ND	2500	ug/kg	280
Chloroform	**1300**	**1200**	**ug/kg**	**120**
Chloromethane	**2300 J**	**2500**	**ug/kg**	**1000**
2-Chlorotoluene	ND	1200	ug/kg	300
4-Chlorotoluene	ND	1200	ug/kg	300
1,2-Dibromo-3-chloro-propane	ND	2500	ug/kg	140
1,2-Dibromoethane	ND	1200	ug/kg	180
Dibromomethane	ND	1200	ug/kg	120
1,2-Dichlorobenzene	ND	1200	ug/kg	320
1,3-Dichlorobenzene	ND	1200	ug/kg	330
1,4-Dichlorobenzene	ND	1200	ug/kg	330
Dichlorodifluoromethane	ND	2500	ug/kg	160
1,1-Dichloroethane	**360 J**	**1200**	**ug/kg**	**120**
1,2-Dichloroethane	**150 J**	**1200**	**ug/kg**	**140**
cis-1,2-Dichloroethene	**170 J**	**1200**	**ug/kg**	**120**
trans-1,2-Dichloroethene	ND	1200	ug/kg	190
1,1-Dichloroethene	**670 J**	**1200**	**ug/kg**	**240**
1,2-Dichloropropane	ND	1200	ug/kg	180
1,3-Dichloropropane	ND	1200	ug/kg	220
2,2-Dichloropropane	ND	1200	ug/kg	120
cis-1,3-Dichloropropene	ND	1200	ug/kg	120
trans-1,3-Dichloropropene	ND	1200	ug/kg	150

(Continued on next page)

STL Knoxville - ACS

Client Sample ID: G-2987-R2-SPENT ACTIVATED CARBON

GC/MS Volatiles

Lot-Sample #...: H6D030205-006 **Work Order #...:** H2HQR1AA **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1-Dichloropropene	ND	1200	ug/kg	120
Ethylbenzene	ND	1200	ug/kg	240
Hexachlorobutadiene	ND	1200	ug/kg	550
2-Hexanone	ND	5000	ug/kg	800
Iodomethane	ND	2500	ug/kg	490
Isopropylbenzene	ND	1200	ug/kg	280
p-Isopropyltoluene	ND	1200	ug/kg	420
Methylene chloride	ND	1200	ug/kg	420
4-Methyl-2-pentanone	ND	5000	ug/kg	800
Naphthalene	ND	1200	ug/kg	240
n-Propylbenzene	ND	1200	ug/kg	360
Styrene	ND	1200	ug/kg	240
1,1,1,2-Tetrachloroethane	ND	1200	ug/kg	160
1,1,2,2-Tetrachloroethane	ND	1200	ug/kg	210
Tetrachloroethene	**2300**	**1200**	**ug/kg**	**210**
Tetrahydrofuran	**1100 J**	**5000**	**ug/kg**	**1000**
Toluene	**770 J**	**1200**	**ug/kg**	**180**
1,2,3-Trichlorobenzene	ND	1200	ug/kg	360
1,2,4-Trichloro-benzene	ND	1200	ug/kg	340
1,1,1-Trichloroethane	**14000**	**1200**	**ug/kg**	**120**
1,1,2-Trichloroethane	ND	1200	ug/kg	180
Trichloroethene	**32000**	**1200**	**ug/kg**	**140**
Trichlorofluoromethane	ND	2500	ug/kg	320
1,2,3-Trichloropropane	ND	1200	ug/kg	270
1,1,2-Trichloro-1,2,2-trifluoroethane	**1600**	**1200**	**ug/kg**	**200**
1,2,4-Trimethylbenzene	ND	1200	ug/kg	320
1,3,5-Trimethylbenzene	ND	1200	ug/kg	310
Vinyl acetate	ND	2500	ug/kg	600
Vinyl chloride	ND	1200	ug/kg	140
m-Xylene & p-Xylene	ND	1200	ug/kg	480
o-Xylene	ND	1200	ug/kg	210
Xylenes (total)	ND	1200	ug/kg	700

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	9.6 *	(42 - 138)
1,2-Dichloroethane-d4	12 *	(38 - 144)
Toluene-d8	1.3 *	(52 - 137)
Bromofluorobenzene	1.7 *	(54 - 151)

NOTE(S):

* Surrogate recovery is outside stated control limits.

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

STL Knoxville - ACS

Client Sample ID: G-2987-R2-SPENT ACTIVATED CARBON

GC/MS Volatiles

Lot-Sample #...: H6D030205-006 Work Order #...: H2HQR1AA Matrix.....: SOLID

NOTE(S):

* Surrogate recovery is outside stated control limits.

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

STL Knoxville - ACS

G-2987-R2-SPENT ACTIVATED CARBON

GC/MS Volatiles

Lot-Sample #: H6D030205-006 **Work Order #:** H2HQR1AA **Matrix:** SOLID

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT		RETENTION TIME	UNITS
Propene	115-07-1	1600 NJ	M	0.847	ug/kg
Isobutane	75-28-5	62000 NJ	M	0.9785	ug/kg
Unknown		19000 NJ	M	1.0941	ug/kg
Pentane	109-66-0	3200 NJ	M	1.6685	ug/kg
Unknown		2000 NJ	M	2.4514	ug/kg
Pentane, 3-methyl-	96-14-0	2200 NJ	M	2.6055	ug/kg
Hexane	110-54-3	1900 NJ	M	2.8237	ug/kg
Unknown		1300 NJ	M	3.244	ug/kg
Cyclopentane, methyl-	96-37-7	5900 NJ	M	3.3114	ug/kg
Cyclohexane	110-82-7	7300 NJ	M	3.8345	ug/kg
Unknown		9800 NJ	M	4.1425	ug/kg
Cyclohexane, methyl-	108-87-2	3900 NJ	M	4.7426	ug/kg
Pentane, 2,3,4-trimethyl-	565-75-3	2000 NJ	M	5.0827	ug/kg
Pentane, 2,3,3-trimethyl-	560-21-4	2800 NJ	M	5.179	ug/kg

NOTE(S):

M: Result was measured against nearest internal standard assuming a response factor of 1.

Data File: /chem/gcms/mk.i/K040406.b/h2hqr1aa.d
Report Date: 04-Apr-2006 19:49

STL Knoxville

Volatile Organics by GC/MS

Data file : /chem/gcms/mk.i/K040406.b/h2hqr1aa.d
Lab Smp Id: H2HQR1AA Client Smp ID: G-2987-R2-SPENT ACT
Inj Date : 04-APR-2006 19:35
Operator : 063605 Inst ID: mk.i
Smp Info : H2HQR1AA,5,0,,
Misc Info : K040406,MS8260NM,focus.sub
Comment : Volatile Organics by GC/MS
Method : /var/chem/gcms/mk.i/K040406.b/MS8260NM.m
Meth Date : 04-Apr-2006 19:31 tillerm Quant Type: ISTD
Cal Date : 03-FEB-2006 14:40 Cal File: fickb038.d
Als bottle: 1
Dil Factor: 5.00000
Integrator: HP RTE Compound Sublist: focus.sub
Target Version: 3.50
Processing Host: qmidhp01

Concentration Formula: Amt * DF * (Vt*5)/(Ws*Va) * CpndVariable

Vt	5000.00000	Sample Volume Purged
Ws	5.07000	Weight of sample
Va	100.00000	Volume of Methanol Aliquot

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/Kg)
*	1 Fluorobenzene	96	4.287	4.284	(1.000)	1024238	50.0000	
*	2 Chlorobenzene-d5	117	6.780	6.780	(1.000)	660603	50.0000	
*	3 1,4 Dichlorobenzene-d4	152	9.495	9.498	(1.000)	283745	50.0000	
$	4 1,2-Dichloroethane-d4	65	4.014	4.017	(0.936)	5868	1.18898	293.14(R)
$	5 Dibromofluoromethane	113	3.751	3.751	(0.875)	4371	0.96047	236.80(R)
$	6 Toluene-d8	98	5.561	5.564	(0.820)	2284	0.12991	32.029(R)
$	7 4-Bromofluorobenzene	95	7.910	7.913	(0.833)	1155	0.16825	41.482(R)
M	8 1,2-Dichloroethene (total)	96				3656	0.70327	173.39
	11 Chloromethane (spcc)	50	0.982	1.011	(0.229)	61117	9.50517	2343.5
	14 Bromomethane	94	1.344	1.338	(0.314)	3458	3.05878	754.14
	15 Chloroethane	64	0.946	1.415	(0.221)	1251	~~0.89717~~	~~221.19~~
	17 Trichlorofluoromethane	101	2.002	1.607	(0.467)	16153	~~3.62536~~	~~893.82~~
	19 1,1-Dichloroethene (ccc)	96	2.002	2.005	(0.467)	10408	2.72325	671.41
	20 *Freon 113	151	2.005	2.005	(0.468)	19871	6.61637	1631.2
	21 Acetone	43	2.025	2.041	(0.472)	15793	14.5370	3584.1
	22 *Iodomethane	142	2.131	2.131	(0.497)	8501	1.88293	464.23
	26 Methylene Chloride	84	2.381	2.384	(0.555)	3108	0.63851	157.42
	32 1,1-Dichloroethane (spcc)	63	2.930	2.926	(0.683)	12898	1.44120	355.32

MT 4/5/06

Data File: /chem/gcms/mk.i/K040406.b/h2hqr1aa.d
Report Date: 04-Apr-2006 19:49

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/Kg)
33 *Vinyl Acetate	86	2.865	2.962	(0.668)	475	~~0.57902~~	~~142.76~~
35 cis 1,2-Dichloroethene	96	3.385	3.379	(0.790)	3656	0.70327	173.39
36 2-Butanone	43	3.382	3.382	(0.789)	23125	13.1710	3247.3
39 *THF	42	3.610	3.610	(0.842)	5068	4.26321	1051.1
40 Chloroform (ccc)	83	3.626	3.629	(0.846)	43859	5.28152	1302.2
41 1,1,1-Trichloroethane	97	3.780	3.780	(0.882)	412346	57.5001	14176
42 Carbon Tetrachloride	117	3.780	3.918	(0.882)	53896	~~9.66452~~	~~2382.8~~
44 Benzene	78	4.069	4.069	(0.949)	136249	6.84306	1687.1
45 1,2-Dichloroethane	62	4.072	4.075	(0.950)	3631	0.62211	153.38
46 Trichloroethene	130	4.579	4.579	(1.068)	627752	131.268	32364
47 1,2-Dichloropropane (ccc)	63	4.287	4.749	(1.000)	33104	~~6.63885~~	~~1636.8~~
53 4-Methyl-2-pentanone	43	5.179	5.458	(0.764)	149012	~~41.4439~~	~~10218~~
54 Toluene (ccc)	91	5.615	5.615	(0.828)	61563	3.13819	773.72
57 1,1,2-Trichloroethane	97	5.933	5.946	(0.875)	3596	~~1.00929~~	~~248.84~~
58 Tetrachloroethene	164	6.081	6.081	(0.897)	30274	9.13329	2251.8
65 Ethylbenzene (ccc)	106	6.905	6.902	(1.018)	4214	0.63983	157.75
86 1,2-Dichlorobenzene	146	10.015	10.018	(1.055)	3826	0.50045	123.38

MT 4/5/06

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

Data File: /chem/gcms/mk.i/K040406.b/h2hqr1aa.d
Report Date: 04-Apr-2006 19:49

STL Knoxville

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: mk.i
Lab File ID: h2hqr1aa.d
Lab Smp Id: H2HQR1AA
Analysis Type: VOA
Quant Type: ISTD
Operator: 063605
Calibration Date: 04-APR-2006
Calibration Time: 17:37
Client Smp ID: G-2987-R2-SPENT ACT
Level: MED
Sample Type: SOIL
Method File: /var/chem/gcms/mk.i/K040406.b/MS8260NM.m
Misc Info: K040406,MS8260NM,focus.sub

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	1075684	537842	2151368	1024238	-4.78
2 Chlorobenzene-d5	737847	368924	1475694	660603	-10.47
3 1,4 Dichlorobenze	307012	153506	614024	283745	-7.58

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	4.28	3.78	4.78	4.29	0.08
2 Chlorobenzene-d5	6.78	6.28	7.28	6.78	0.00
3 1,4 Dichlorobenze	9.50	9.00	10.00	9.50	-0.03

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

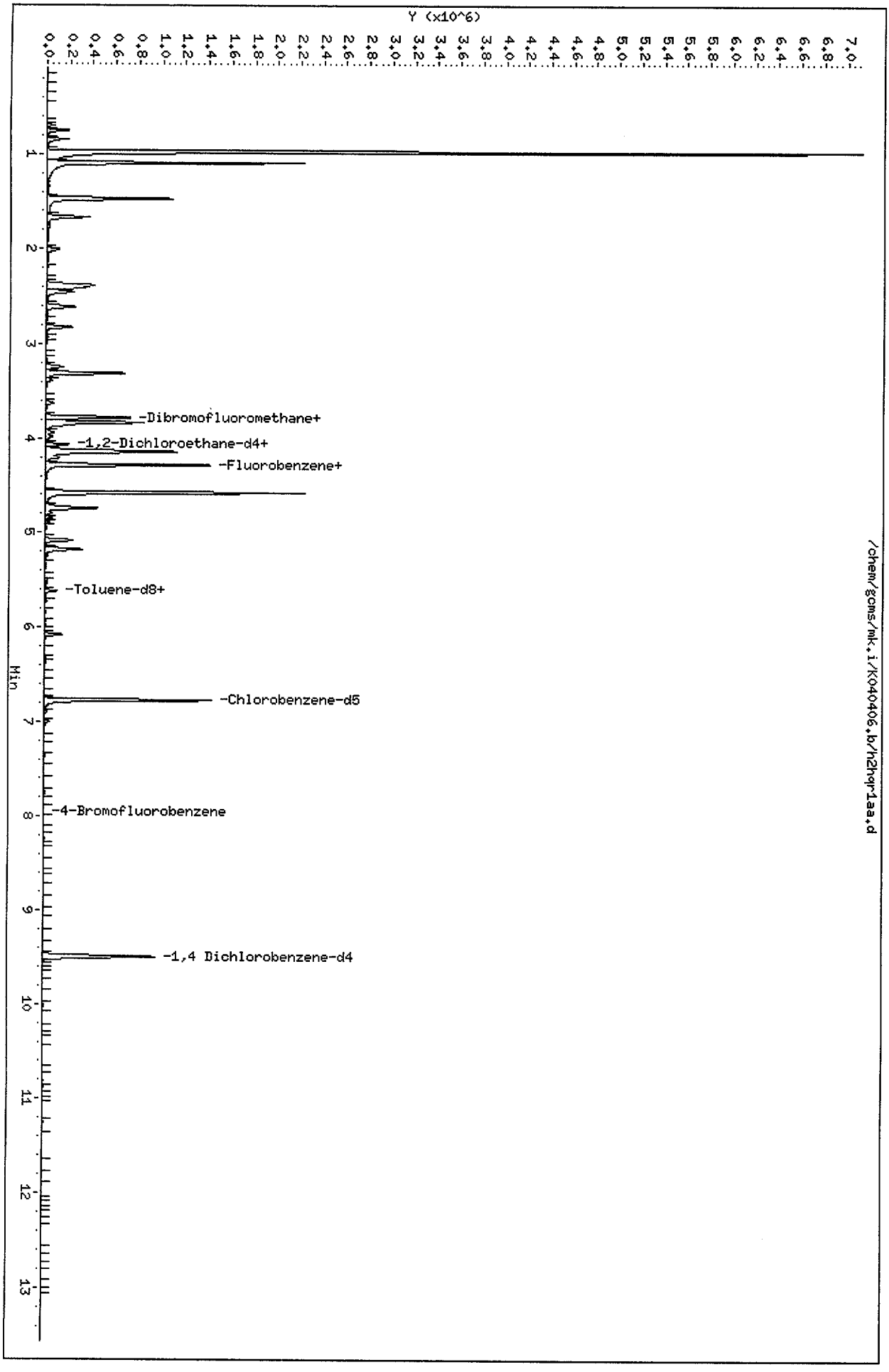
Data File: /chem/gcms/mk.i/K040406.b/h2hqr1aa.d
Report Date: 04-Apr-2006 19:49

STL Knoxville

RECOVERY REPORT

Client Name: STL Knoxville - ACS
Sample Matrix: SOLID
Lab Smp Id: H2HQR1AA
Level: MED
Data Type: MS DATA
SpikeList File: fulllist.spk
Sublist File: focus.sub
Client SDG: H6D030205
Fraction: VOA
Client Smp ID: G-2987-R2-SPENT ACT
Operator: 063605
SampleType: SAMPLE
Quant Type: ISTD
Method File: /var/chem/gcms/mk.i/K040406.b/MS8260NM.m
Misc Info: K040406,MS8260NM,focus.sub

SURROGATE COMPOUND	CONC ADDED ug/Kg	CONC RECOVERED ug/Kg	% RECOVERED	LIMITS
$ 4 1,2-Dichloroethane	2465.5	293.14	11.89*	38-144
$ 5 Dibromofluorometha	2465.5	236.80	9.60*	42-138
$ 6 Toluene-d8	2465.5	32.029	1.30*	52-137
$ 7 4-Bromofluorobenze	2465.5	41.482	1.68*	54-151


Data File: /chem/gcms/mk.i/K040406.b/h2hqr1aa.d
Date : 04-APR-2006 19:35
Client ID: G-2987-R2-SPENT ACT
Sample Info: H2HQR1AA,5,0,,
Column phase: J&W-624
Instrument: mk.i
Operator: 063005
Column diameter: 0.18
Y (x10^6)
Min
-Dibromofluoromethane+
-1,2-Dichloroethane-d4+
-Fluorobenzene+
-Toluene-d8+
-Chlorobenzene-d5
-4-Bromofluorobenzene
-1,4 Dichlorobenzene-d4
/chem/gcms/mk.i/K040406.b/h2hqr1aa.d

Data File: /chem/gcms/mk.i/K040406.b/h2hqr1aa.d

Date : 04-APR-2006 19:35

Client ID: G-2987-R2-SPENT ACT

Instrument: mk.i

Sample Info: H2HQR1AA,5,0,,

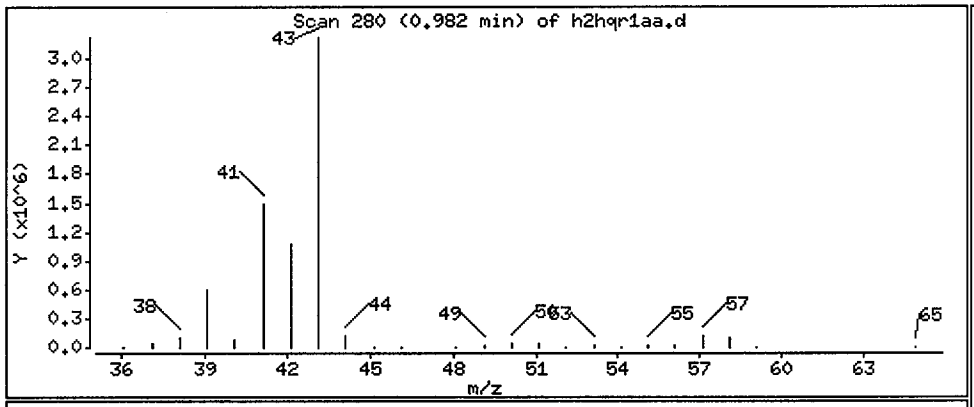
Operator: 063605

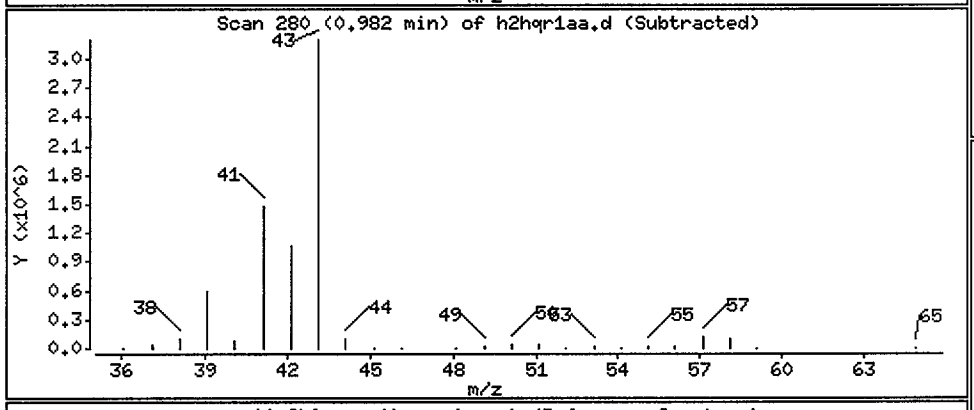
Column phase: J&W-624

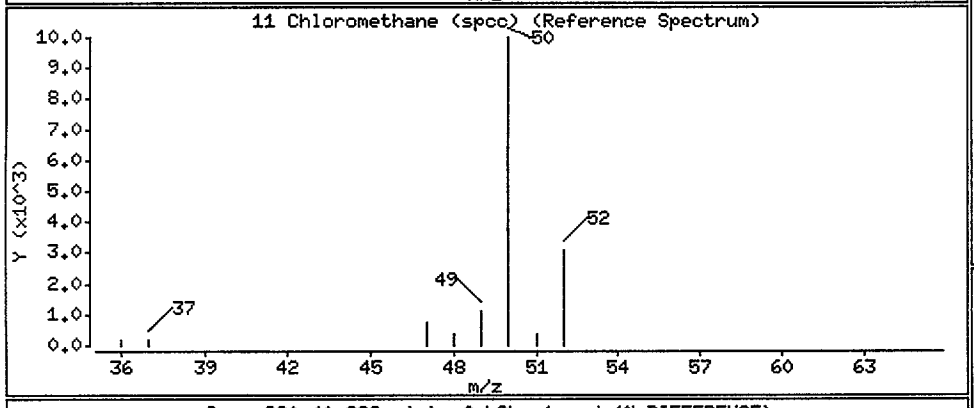
Column diameter: 0.18

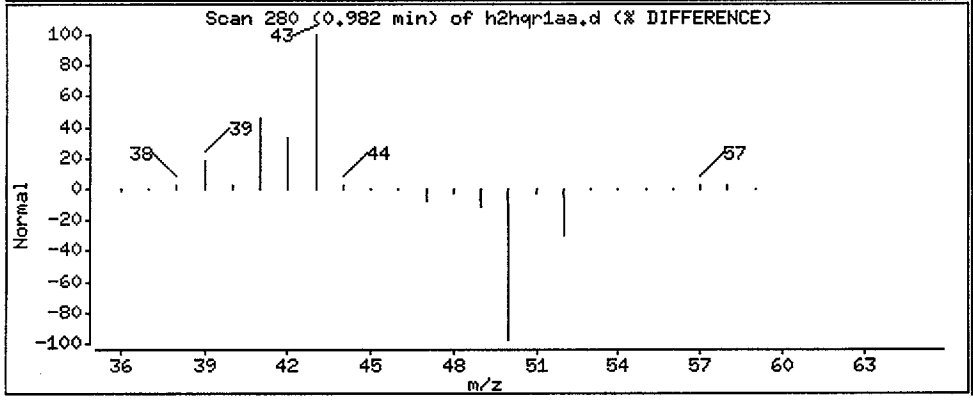
11 Chloromethane (spcc)

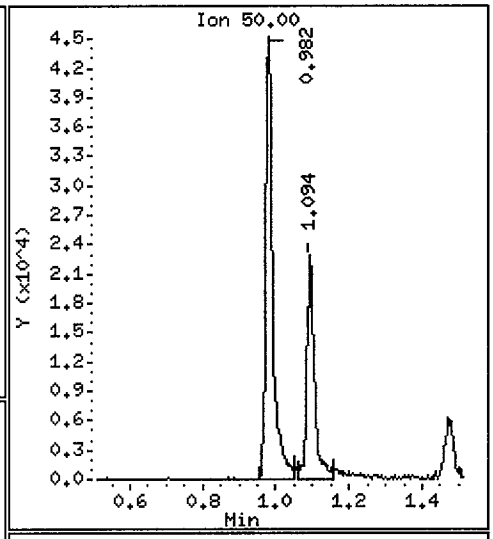
Concentration: 2343.5 ug/Kg

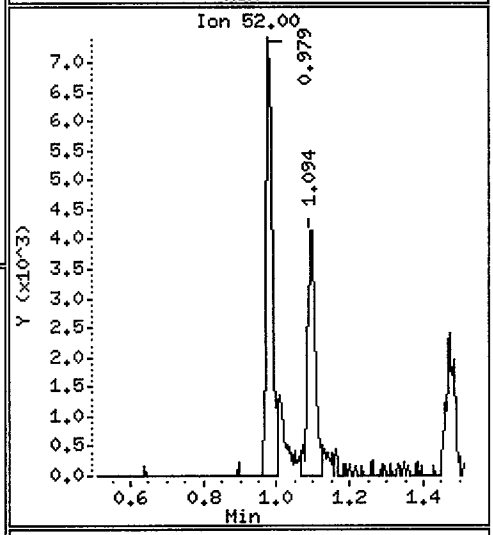


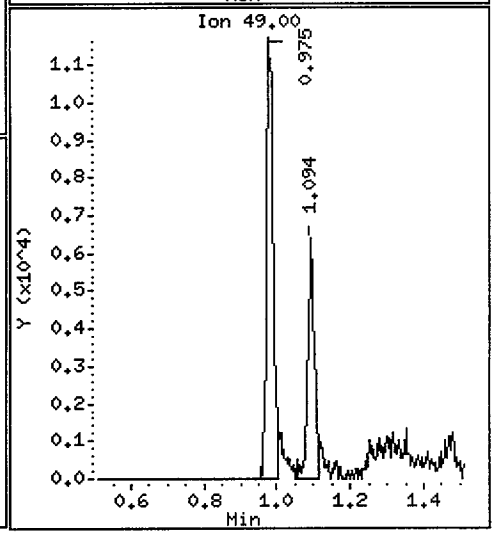












Data File: /chem/gcms/mk.i/K040406.b/h2hqr1aa.d

Date : 04-APR-2006 19:35

Client ID: G-2987-R2-SPENT ACT

Instrument: mk.i

Sample Info: H2HQR1AA,5,0,,

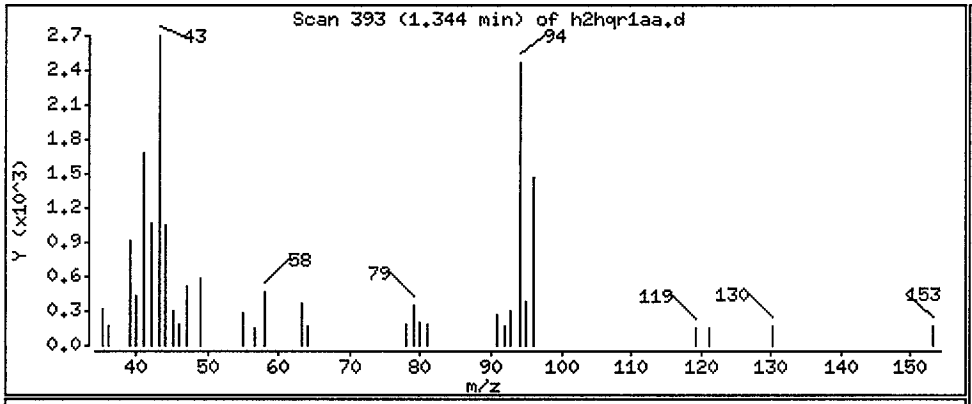
Operator: 063605

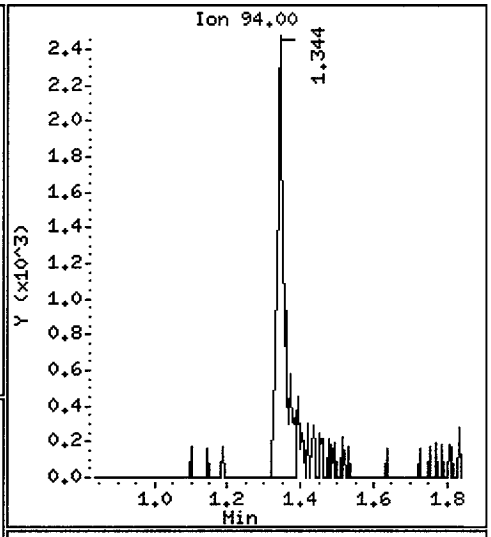
Column phase: J&W-624

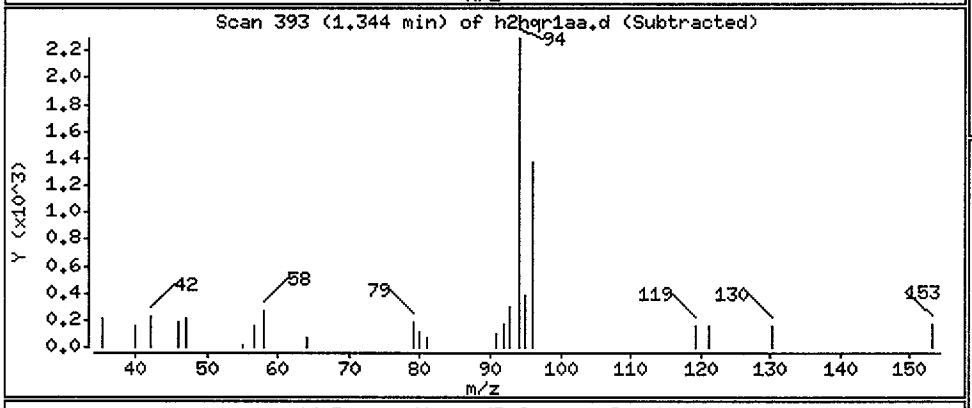
Column diameter: 0.18

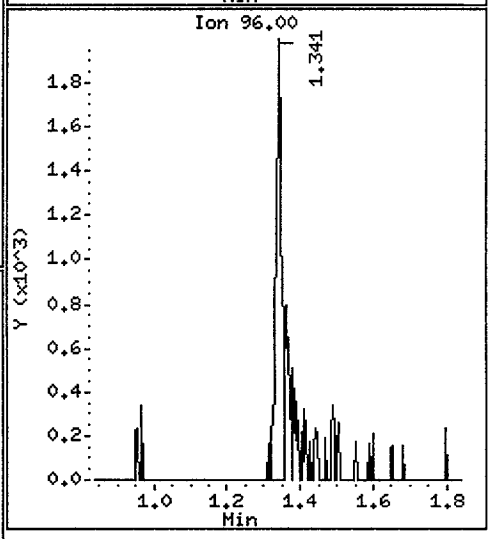
14 Bromomethane

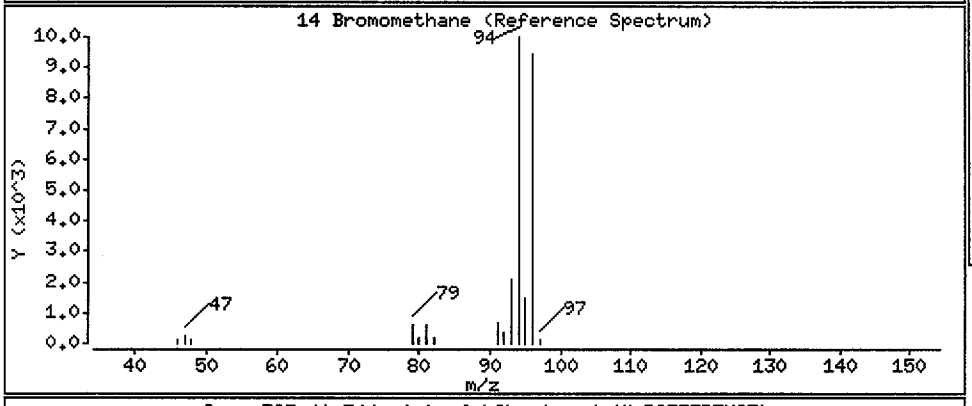
Concentration: 754.14 ug/Kg

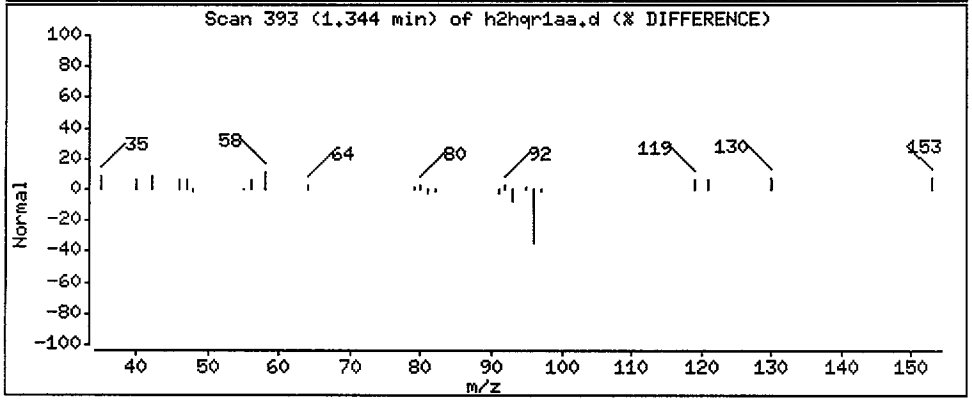












Data File: /chem/gcms/mk.i/K040406.b/h2hqr1aa.d

Date : 04-APR-2006 19:35

Client ID: G-2987-R2-SPENT ACT

Instrument: mk.i

Sample Info: H2HQR1AA,5,0,,

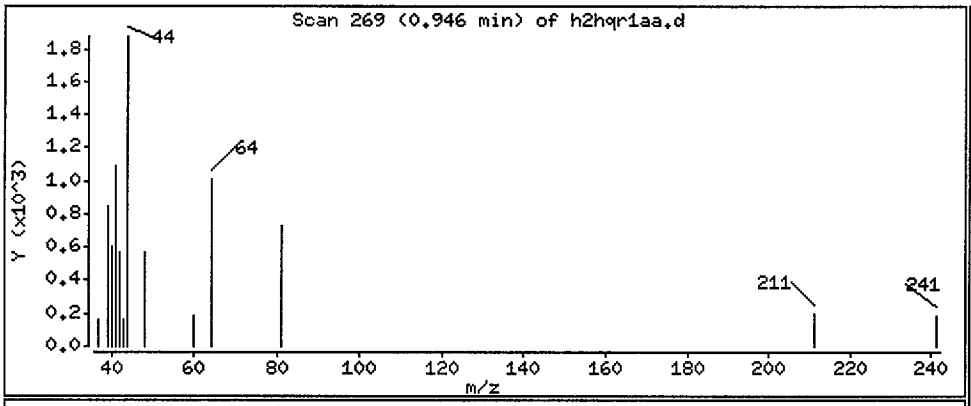
Operator: 063605

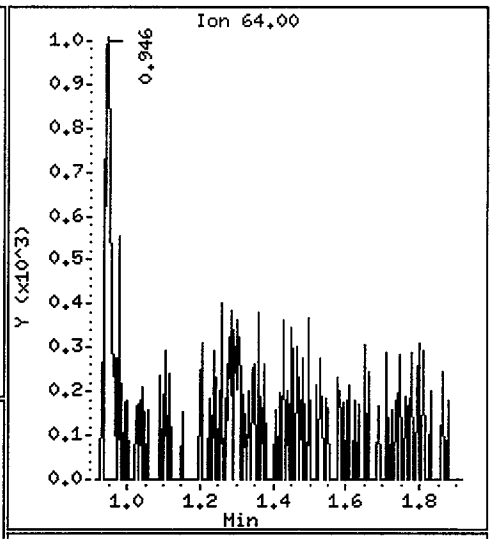
Column phase: J&W-624

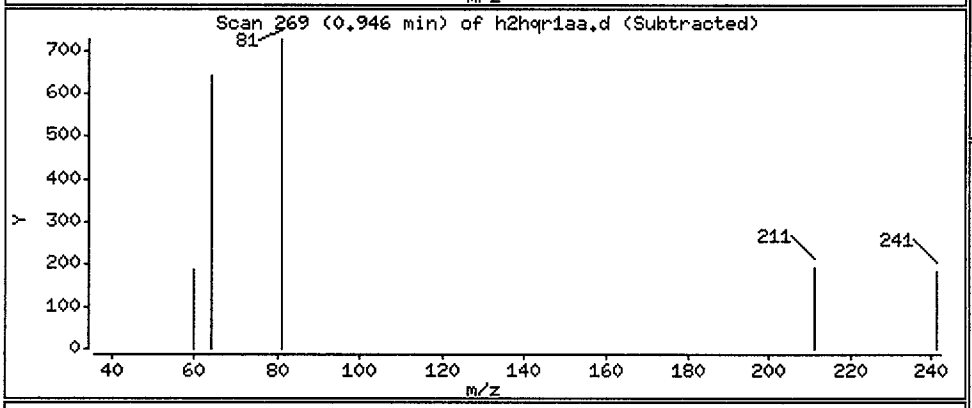
Column diameter: 0.18

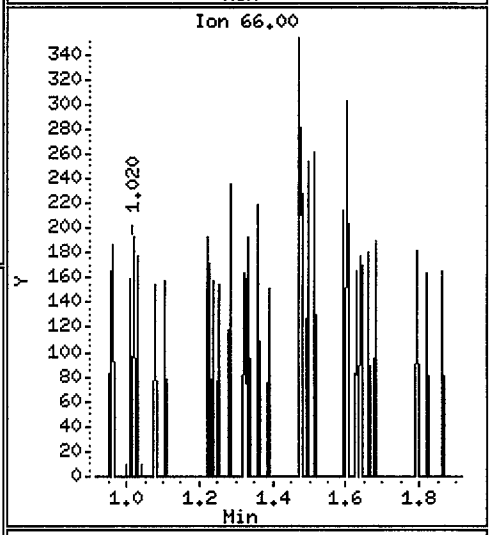
15 Chloroethane

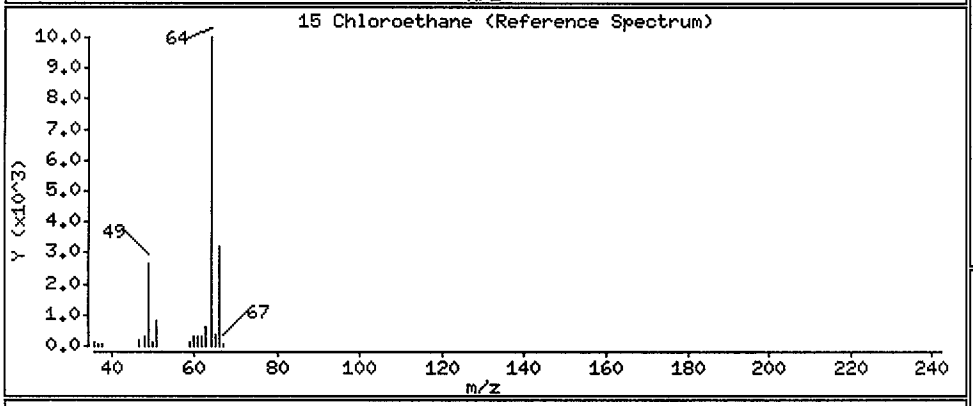
Concentration: 221.19 ug/Kg

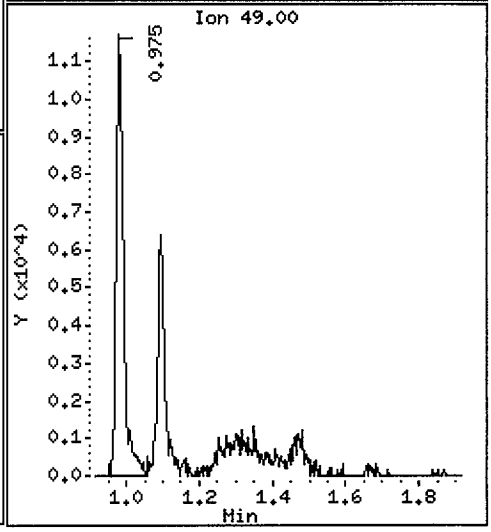


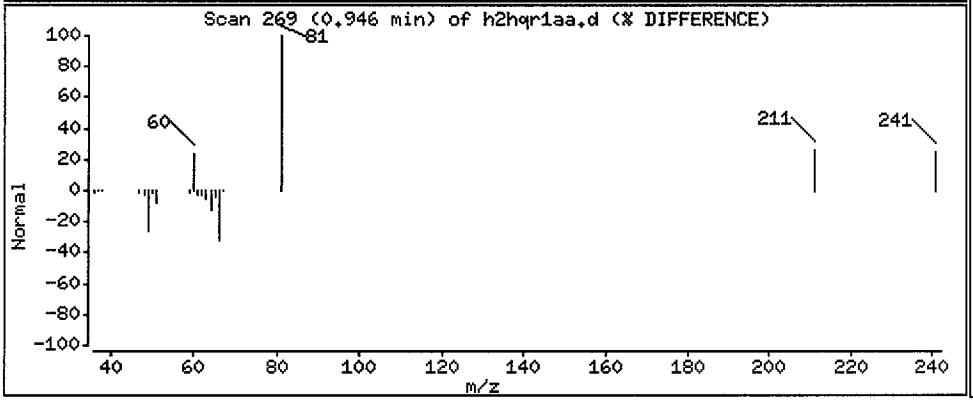












Data File: /chem/gcms/mk.i/K040406.b/h2hqr1aa.d

Date : 04-APR-2006 19:35

Client ID: G-2987-R2-SPENT ACT

Instrument: mk.i

Sample Info: H2HQR1AA,5,0,,

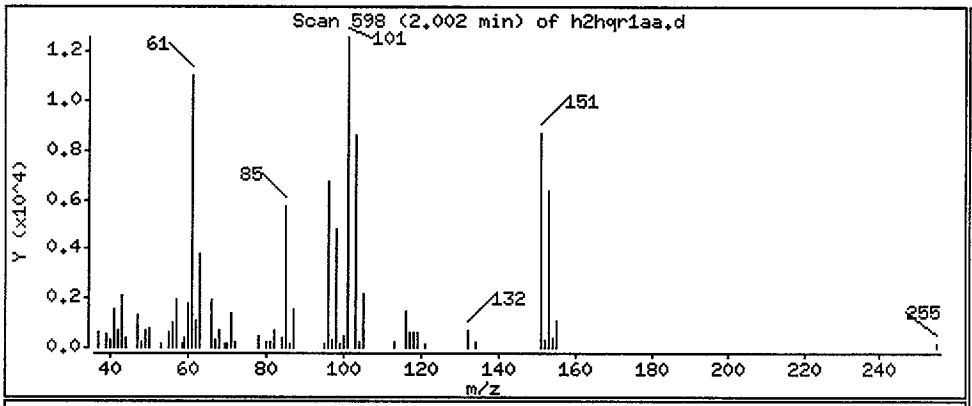
Operator: 063605

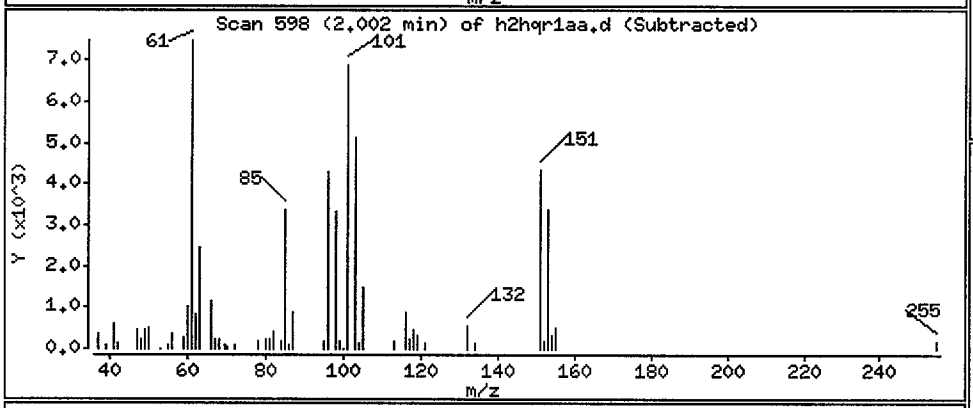
Column phase: J&W-624

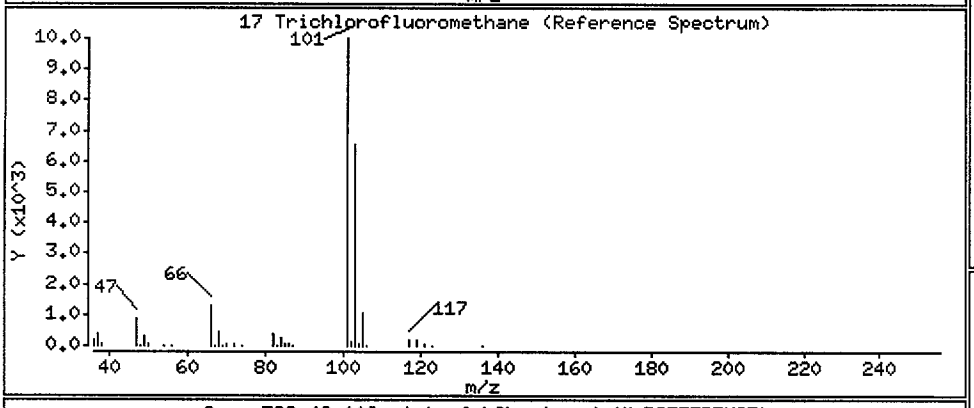
Column diameter: 0.18

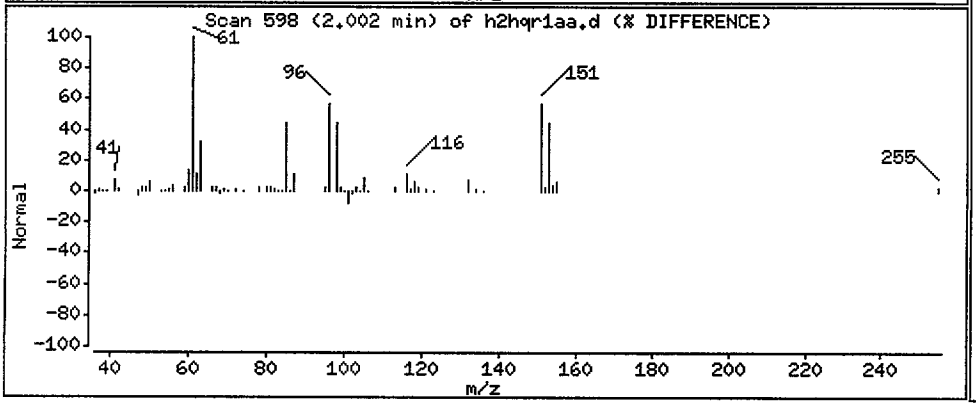
17 Trichlorofluoromethane

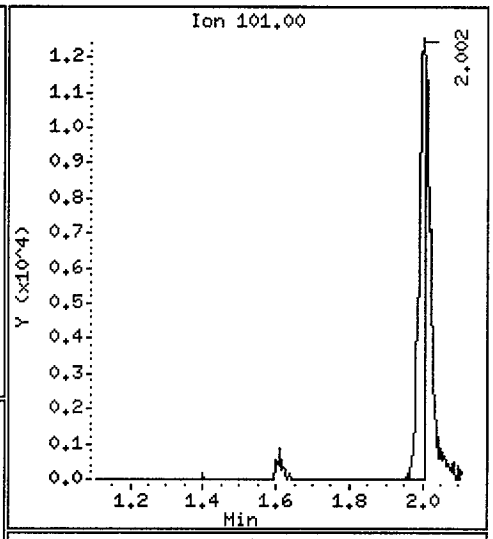
Concentration: 893.82 ug/Kg

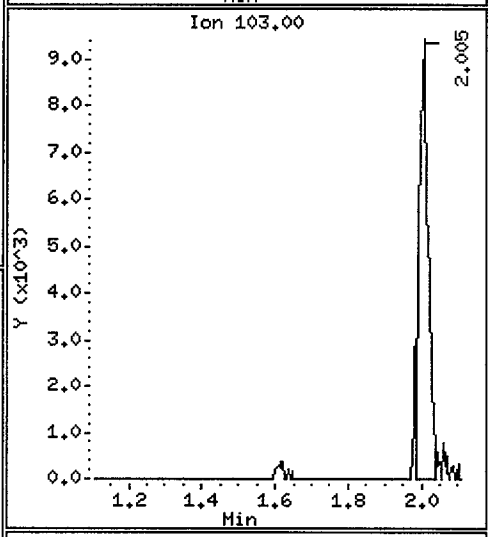


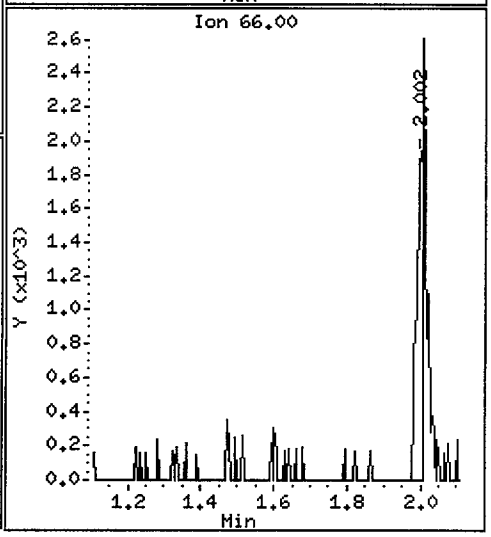












Data File: /chem/gcms/mk.i/K040406.b/h2hqr1aa.d

Date : 04-APR-2006 19:35

Client ID: G-2987-R2-SPENT ACT

Instrument: mk.i

Sample Info: H2HQR1AA,5,0,,

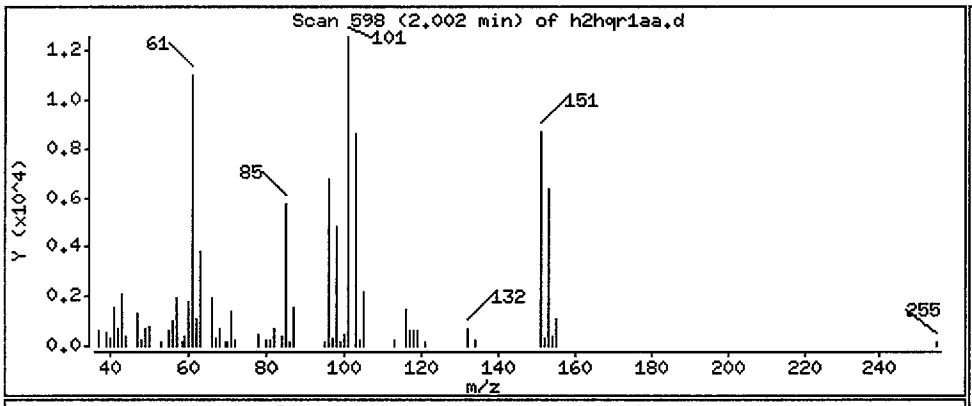
Operator: 063605

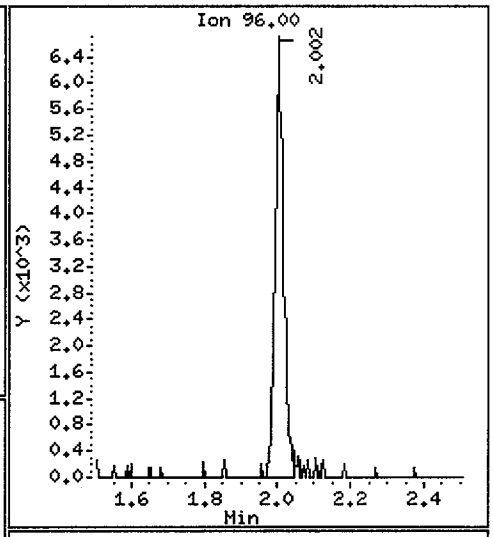
Column phase: J&W-624

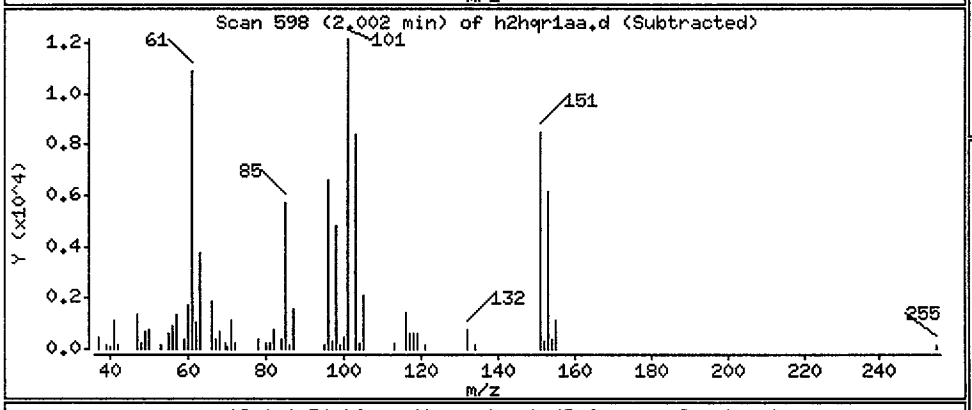
Column diameter: 0.18

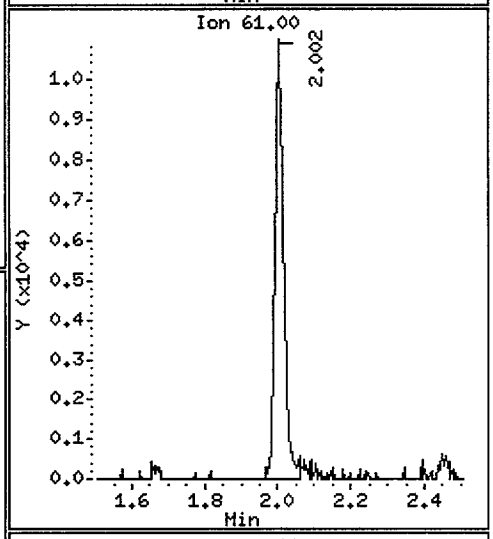
19 1,1-Dichloroethene (ccc)

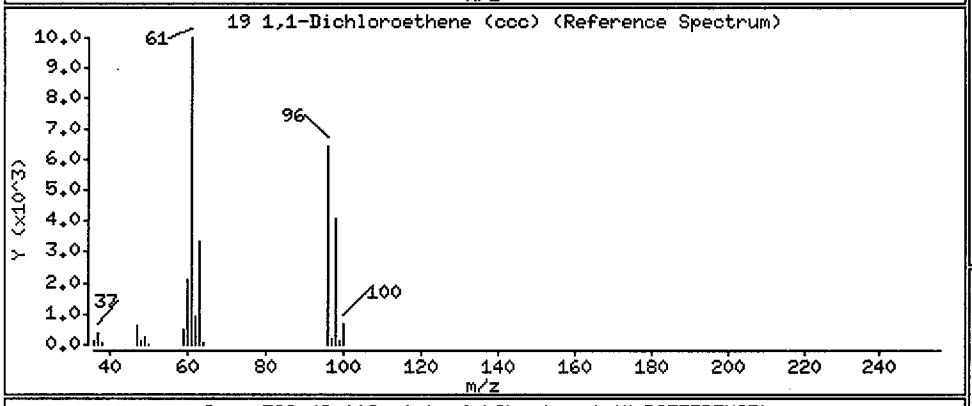
Concentration: 671.41 ug/Kg

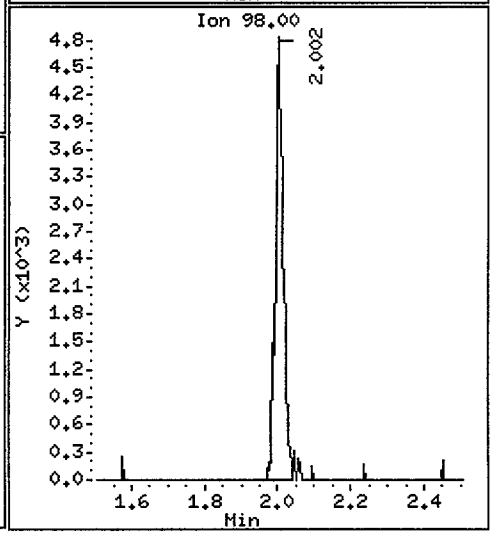


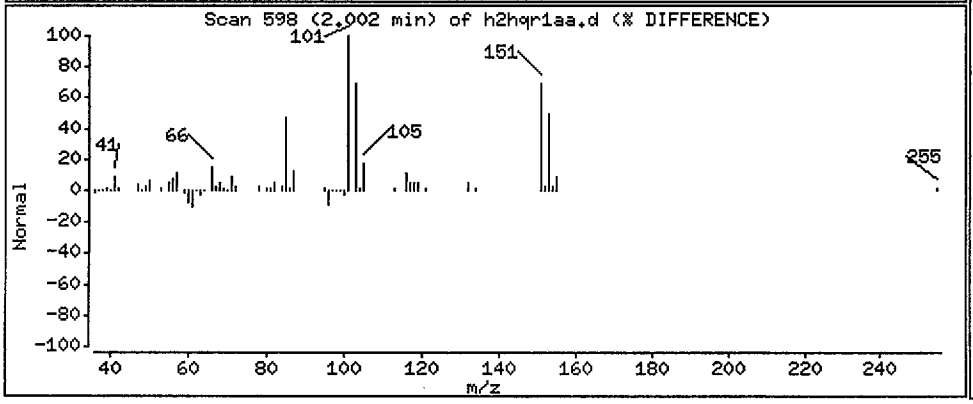












Data File: /chem/gcms/mk.i/K040406.b/h2hqr1aa.d

Date : 04-APR-2006 19:35

Client ID: G-2987-R2-SPENT ACT

Instrument: mk.i

Sample Info: H2HQR1AA,5,0,,

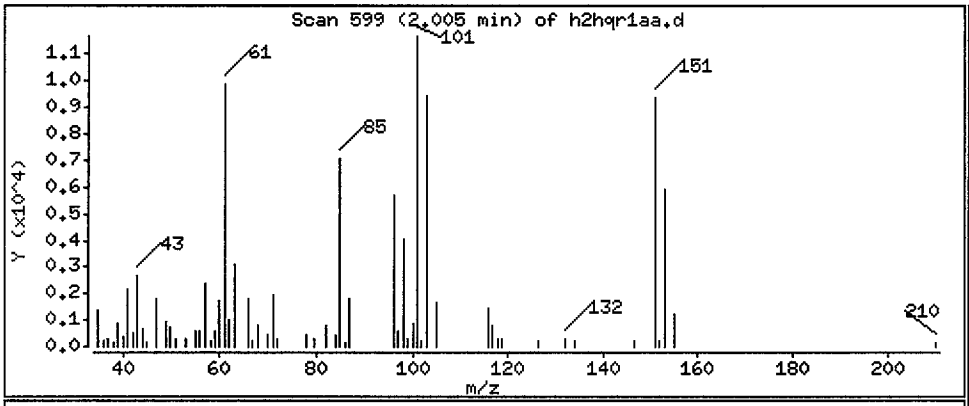
Operator: 063605

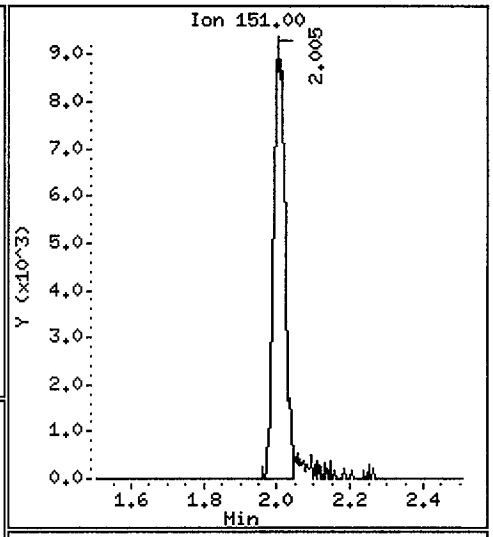
Column phase: J&W-624

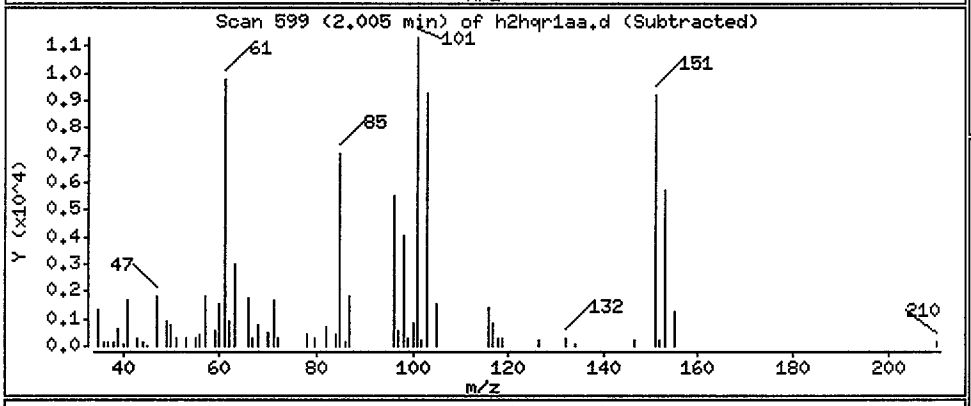
Column diameter: 0.18

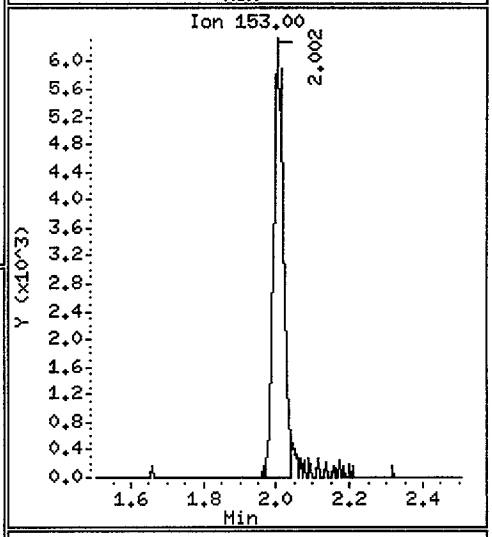
20 *Freon 113

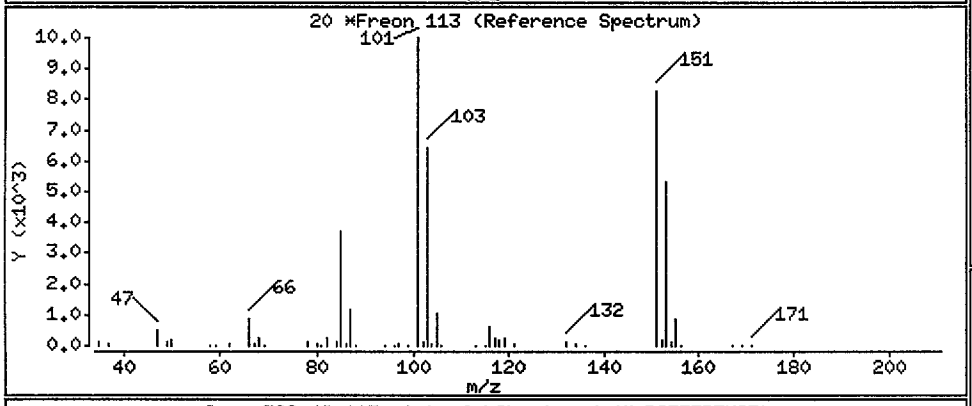
Concentration: 1631.2 ug/Kg

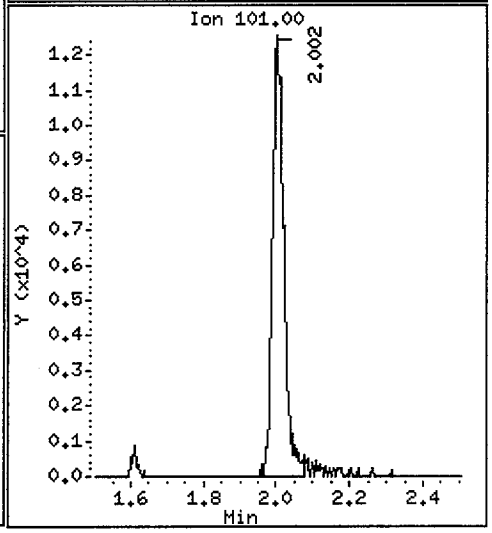


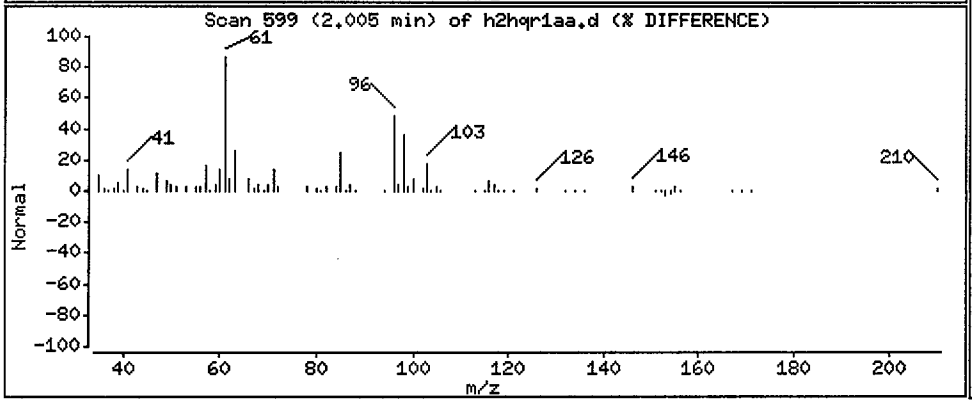












Data File: /chem/gcms/mk.i/K040406.b/h2hqr1aa.d

Date : 04-APR-2006 19:35

Client ID: G-2987-R2-SPENT ACT

Instrument: mk.i

Sample Info: H2HQR1AA,5,0,,

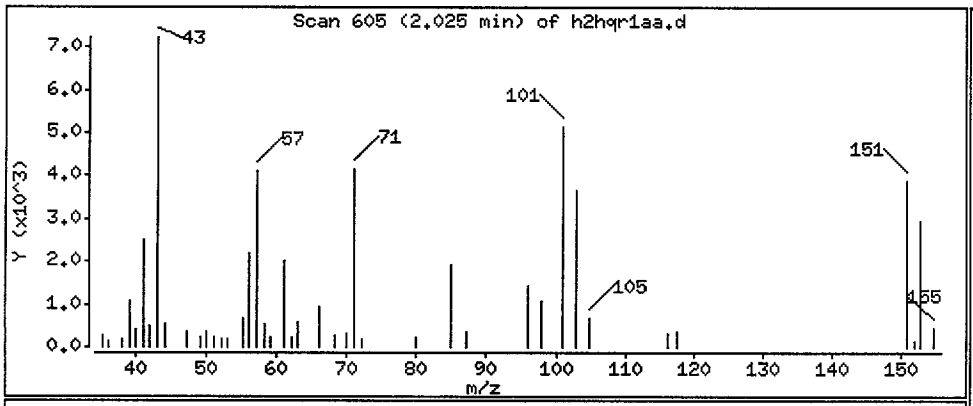
Operator: 063605

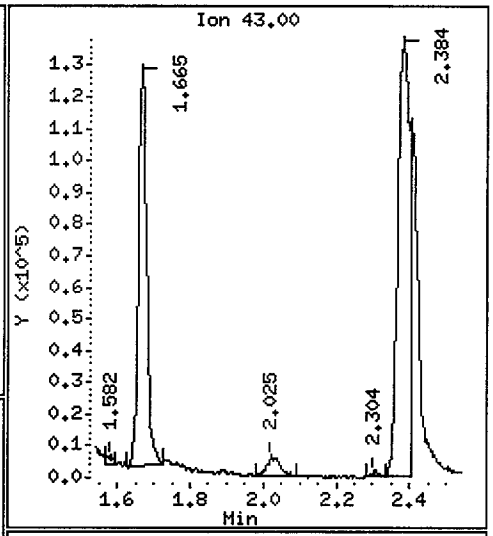
Column phase: J&W-624

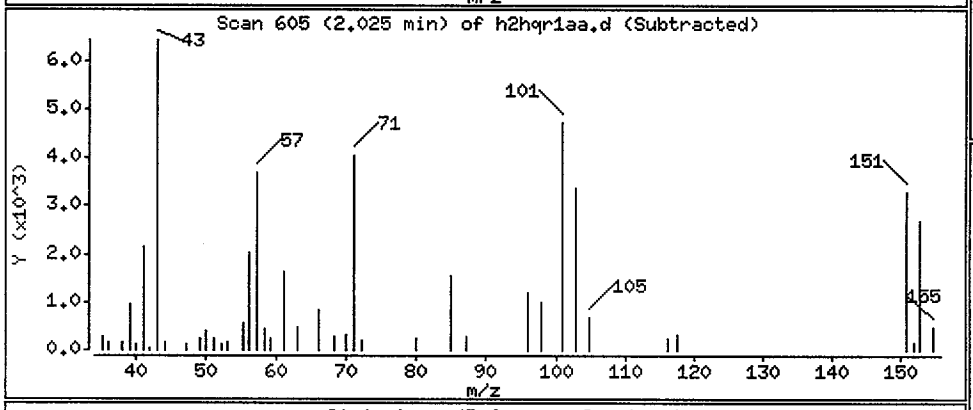
Column diameter: 0.18

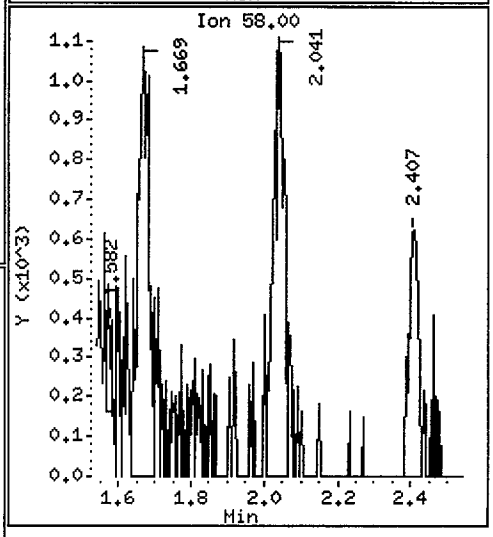
21 Acetone

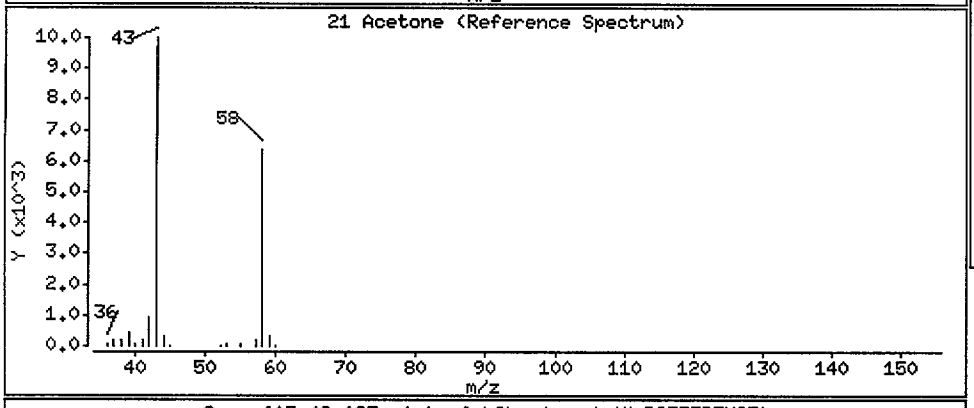
Concentration: 3584.1 ug/Kg

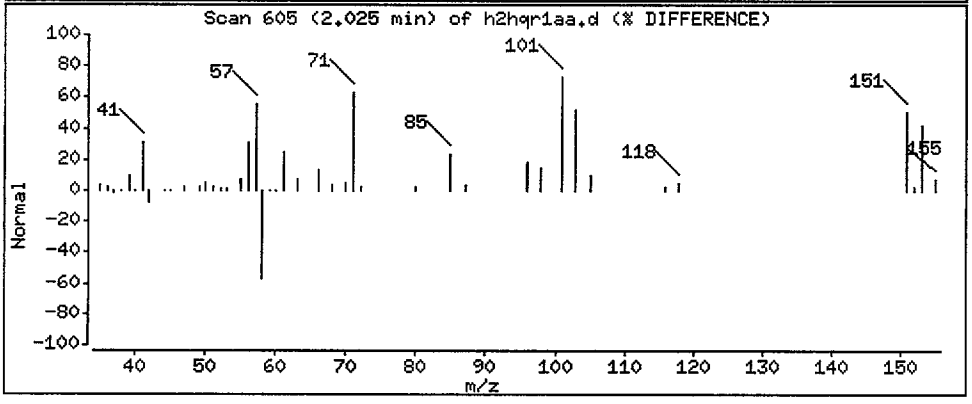












Data File: /chem/gcms/mk.i/K040406.b/h2hqr1aa.d

Date : 04-APR-2006 19:35

Client ID: G-2987-R2-SPENT ACT

Instrument: mk.i

Sample Info: H2HQR1AA,5,0,,

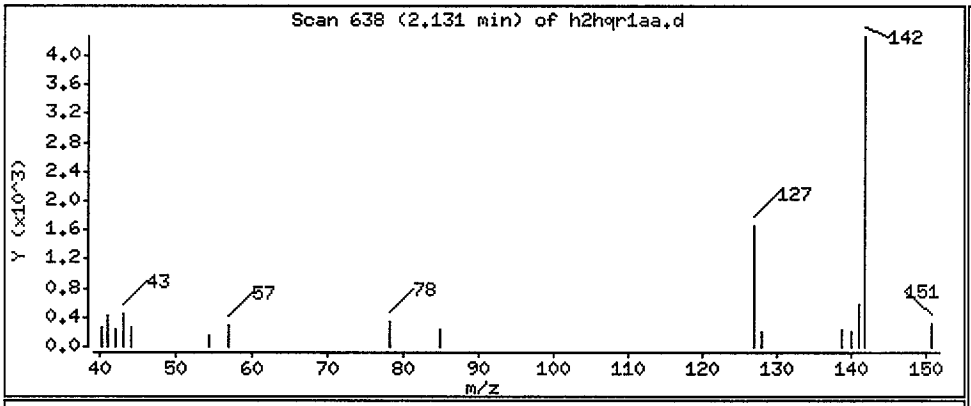
Operator: 063605

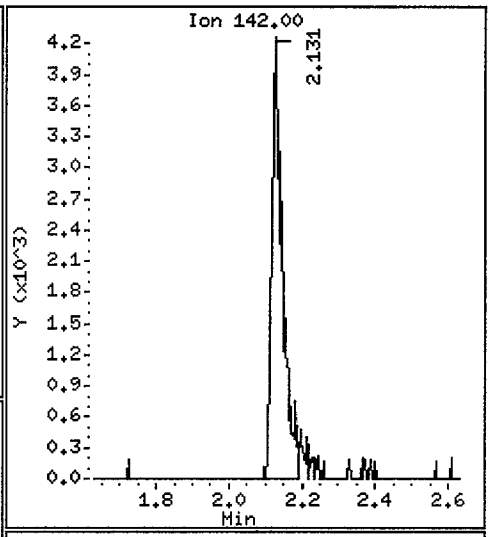
Column phase: J&W-624

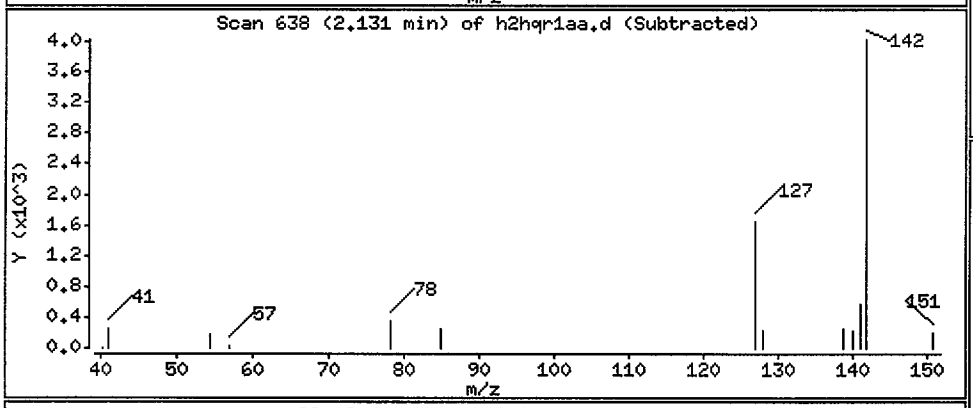
Column diameter: 0.18

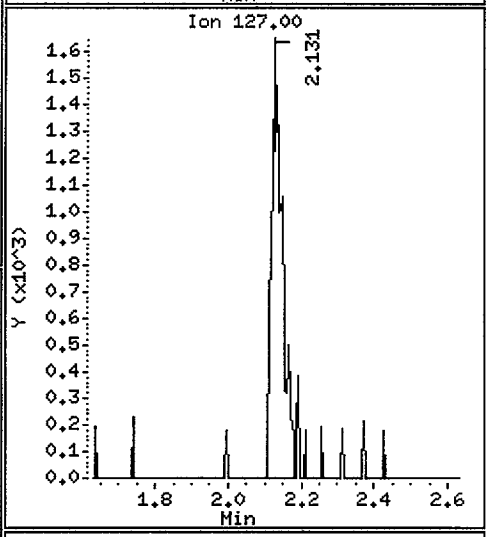
22 *Iodomethane

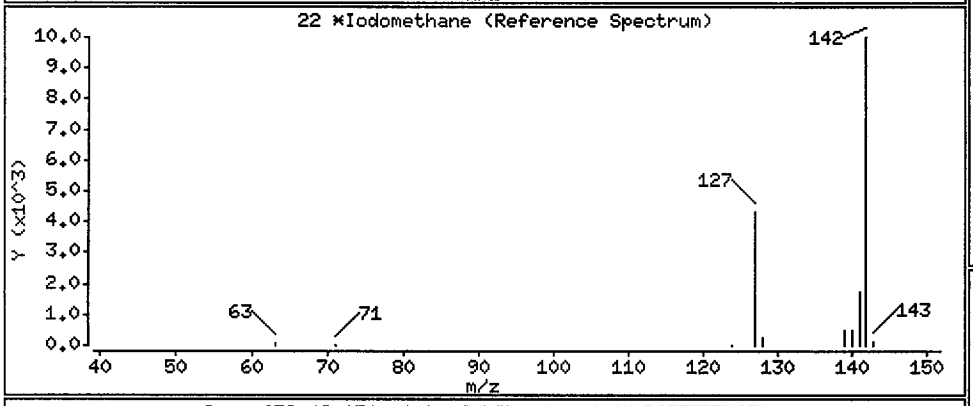
Concentration: 464.23 ug/Kg

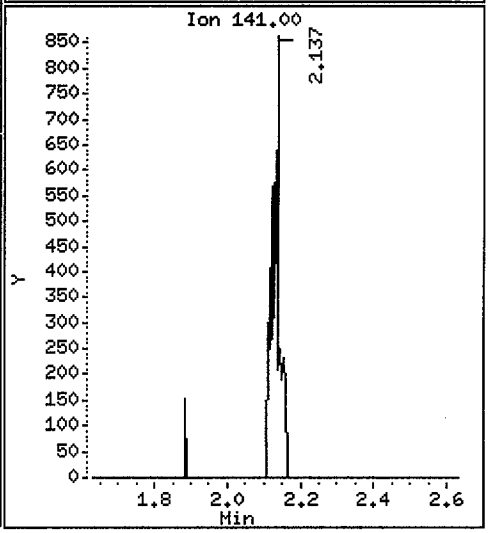


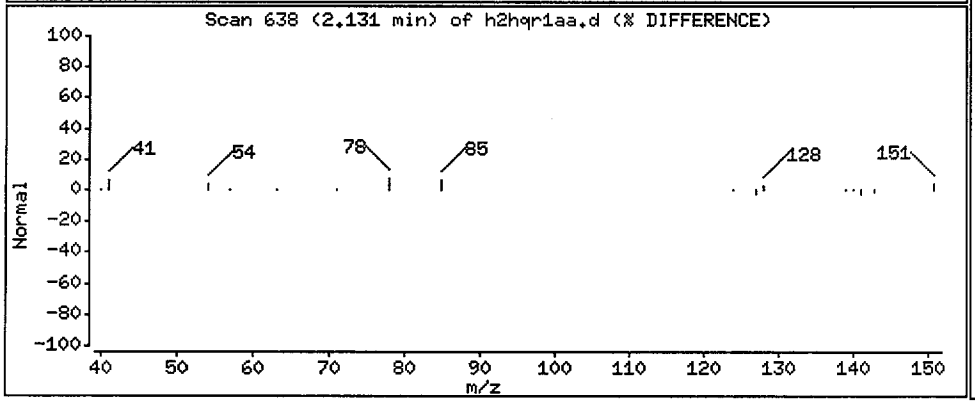












Data File: /chem/gcms/mk.i/K040406.b/h2hqr1aa.d

Date : 04-APR-2006 19:35

Client ID: G-2987-R2-SPENT ACT

Instrument: mk.i

Sample Info: H2HQR1AA,5,0,,

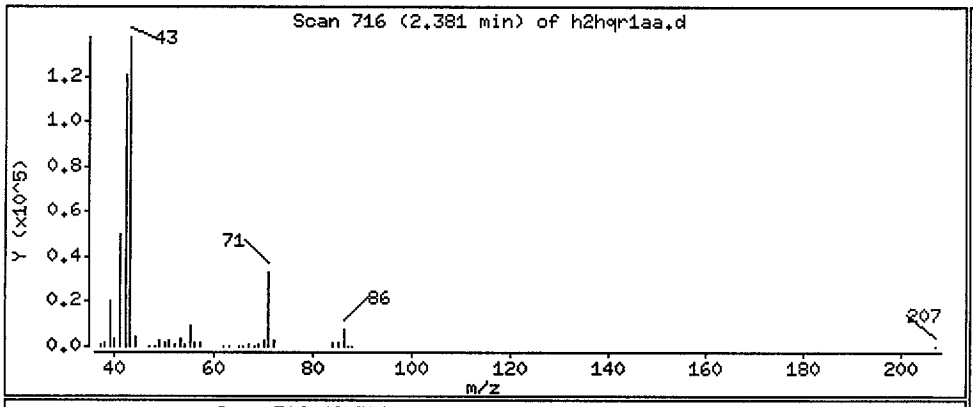
Operator: 063605

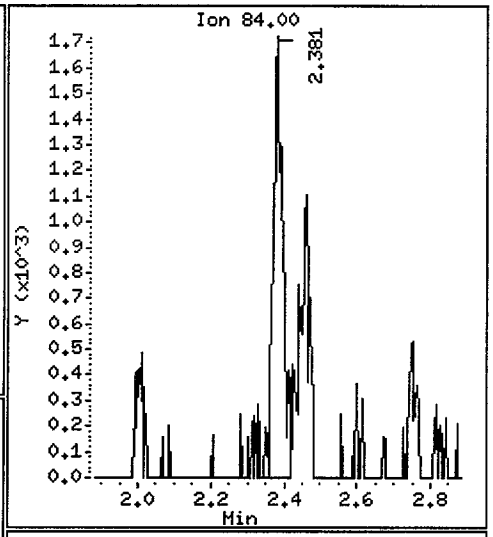
Column phase: J&W-624

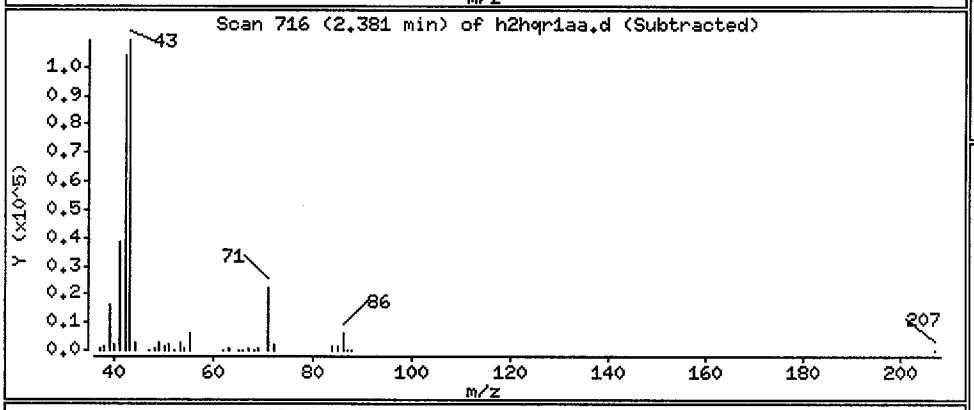
Column diameter: 0.18

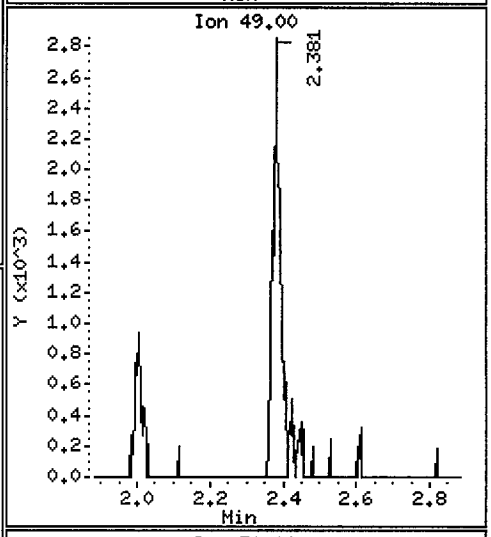
26 Methylene Chloride

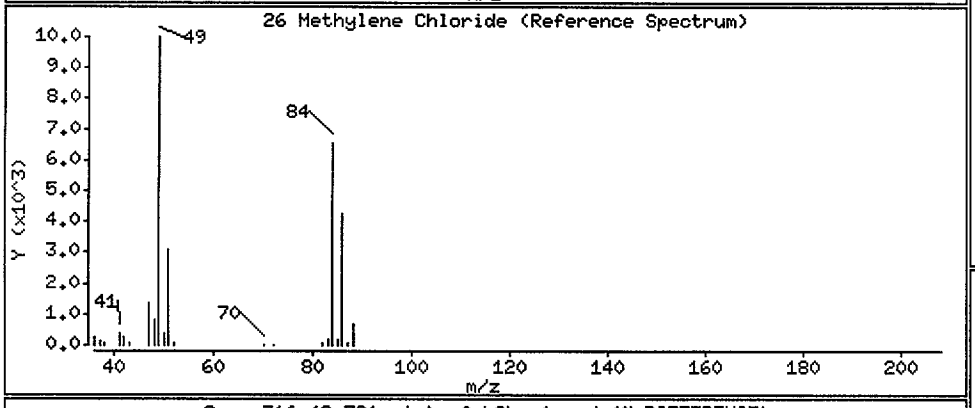
Concentration: 157.42 ug/Kg

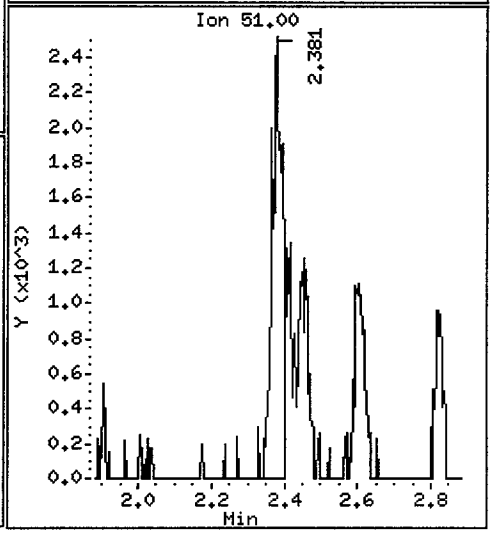


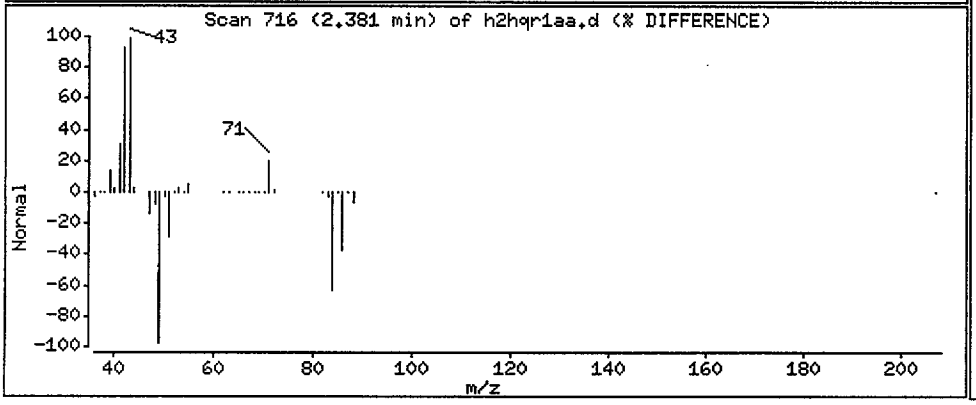












Data File: /chem/gcms/mk.i/K040406.b/h2hqr1aa.d

Date : 04-APR-2006 19:35

Client ID: G-2987-R2-SPENT ACT

Instrument: mk.i

Sample Info: H2HQR1AA,5,0,,

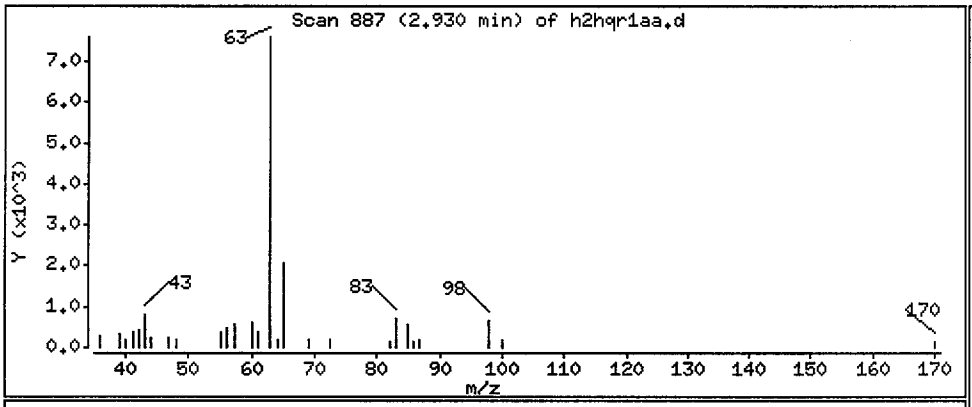
Operator: 063605

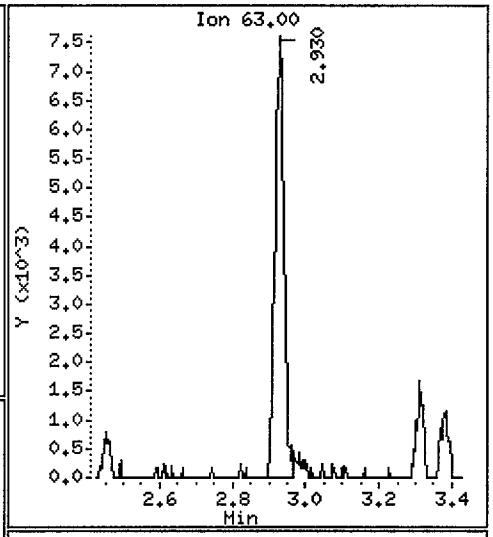
Column phase: J&W-624

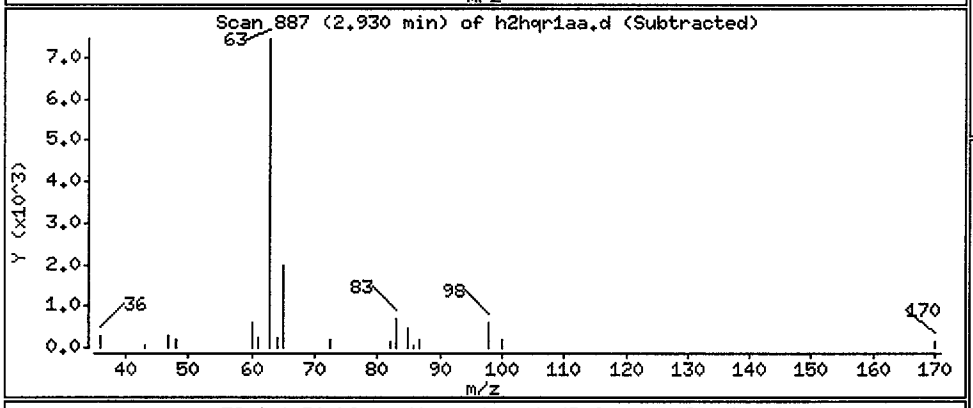
Column diameter: 0.18

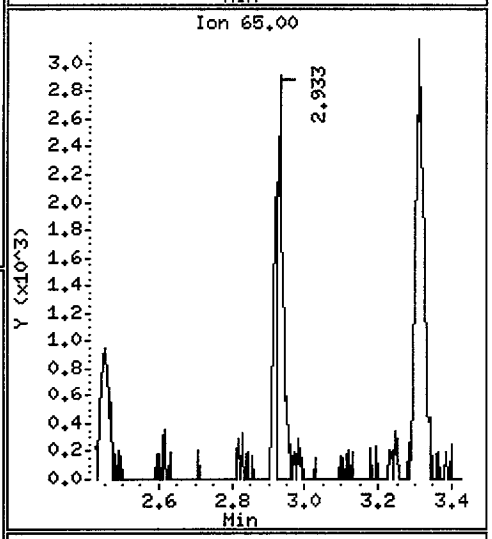
32 1,1-Dichloroethane (spcc)

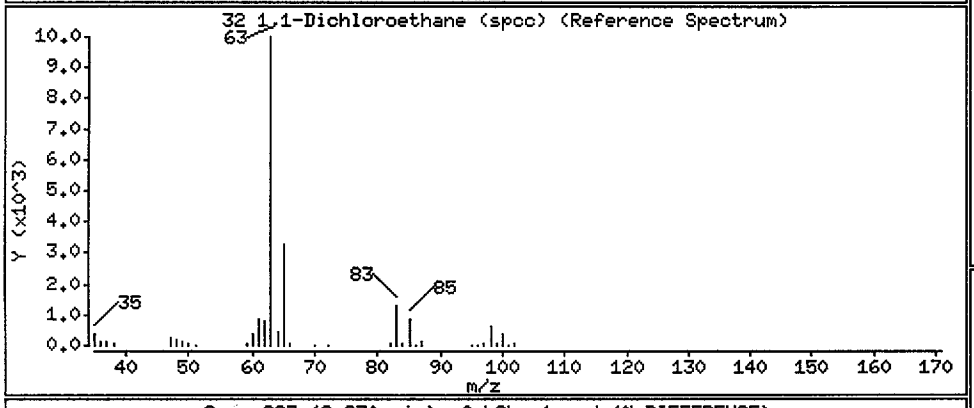
Concentration: 355.32 ug/Kg

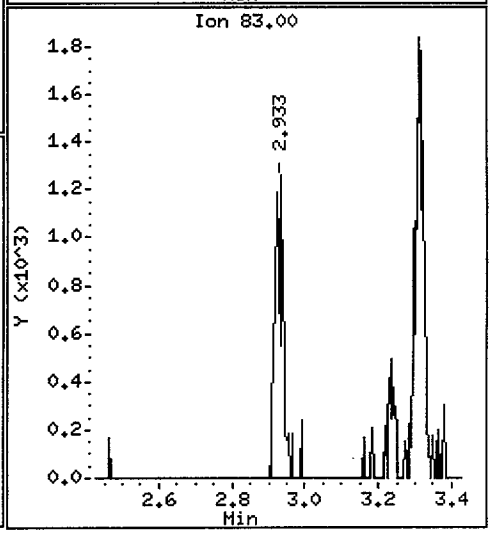


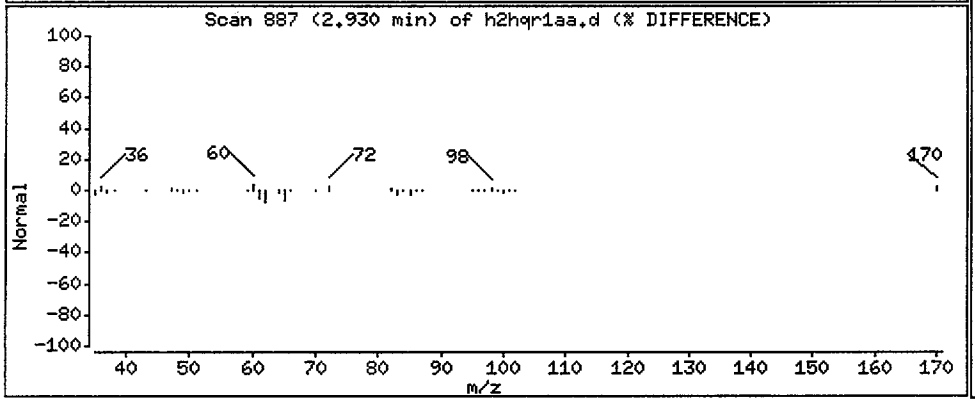












Data File: /chem/gcms/mk.i/K040406.b/h2hqr1aa.d

Date : 04-APR-2006 19:35

Client ID: G-2987-R2-SPENT ACT

Instrument: mk.i

Sample Info: H2HQR1AA,5,0,,

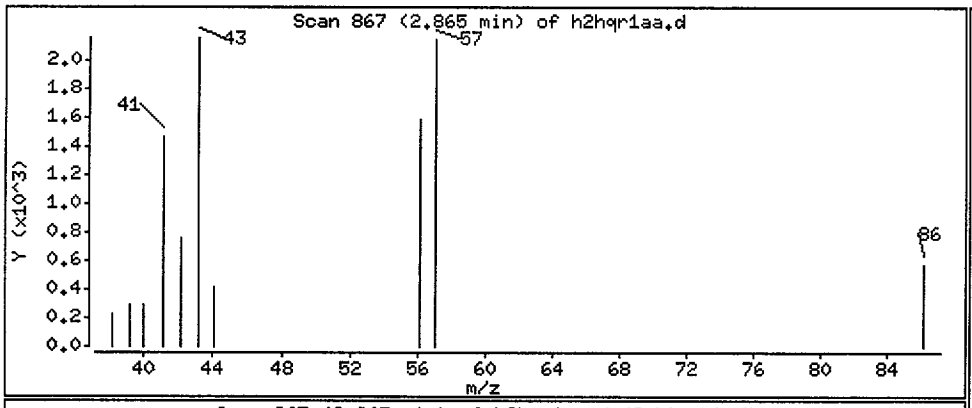
Operator: 063605

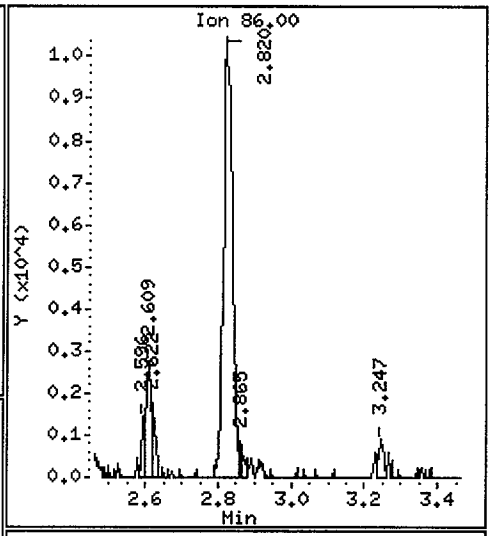
Column phase: J&W-624

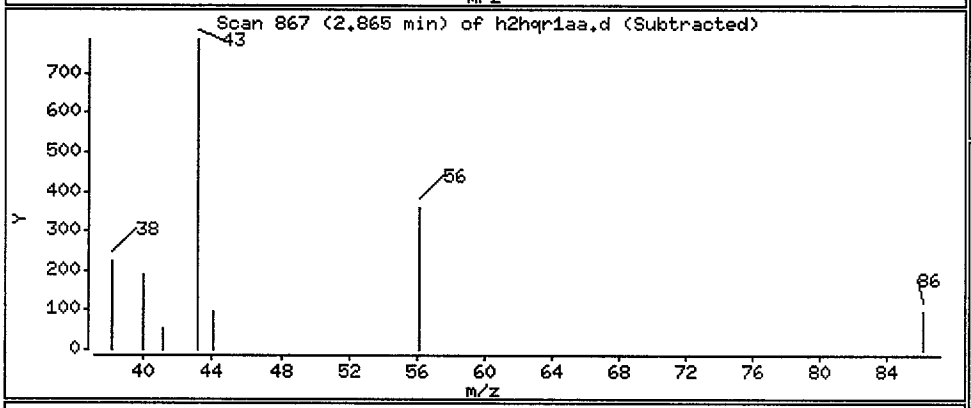
Column diameter: 0.18

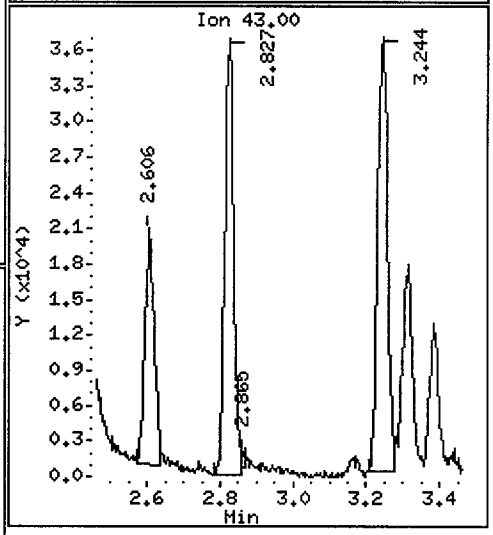
33 *Vinyl Acetate

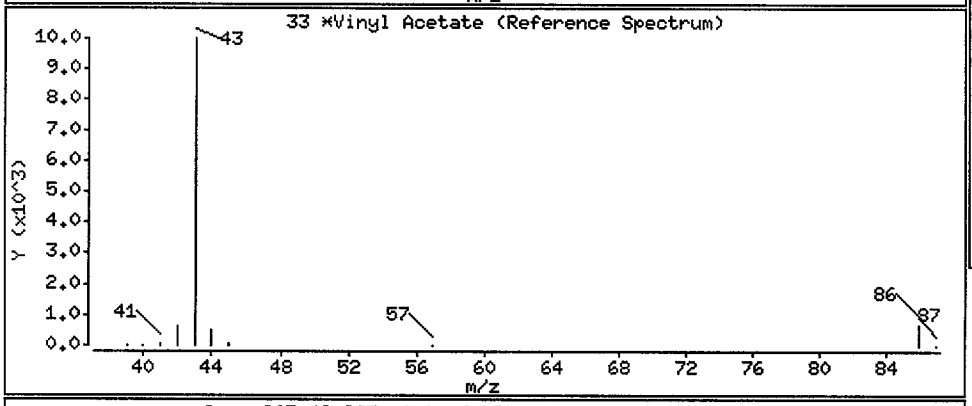
Concentration: 142.76 ug/Kg

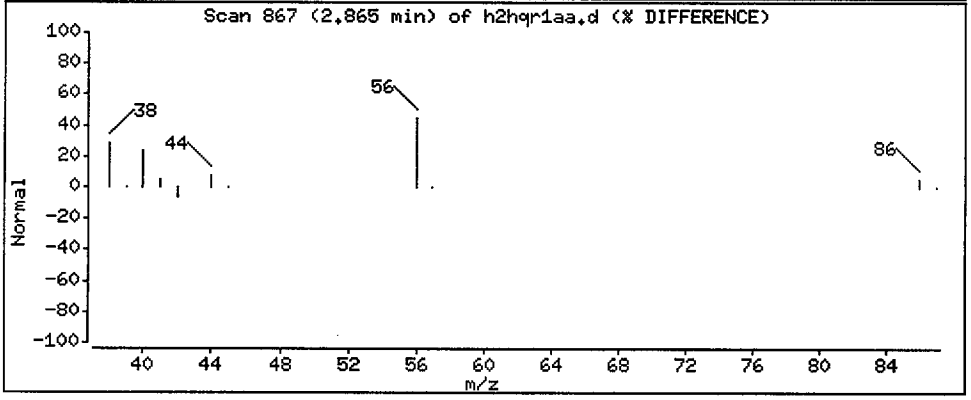












Data File: /chem/gcms/mk.i/K040406.b/h2hqr1aa.d

Date : 04-APR-2006 19:35

Client ID: G-2987-R2-SPENT ACT

Instrument: mk.i

Sample Info: H2HQR1AA,5,0,,

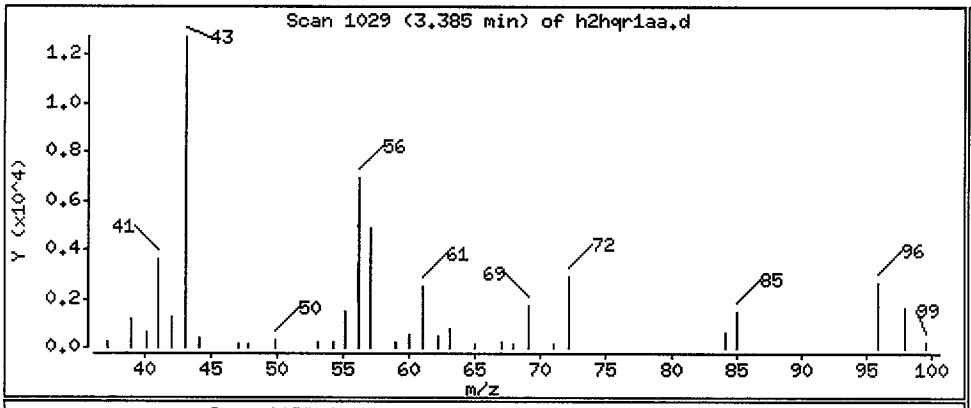
Operator: 063605

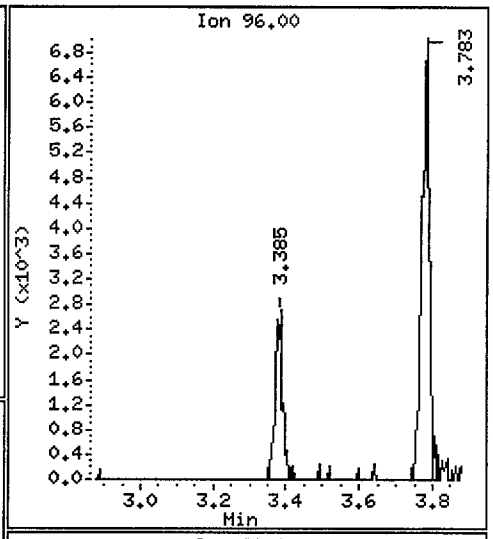
Column phase: J&W-624

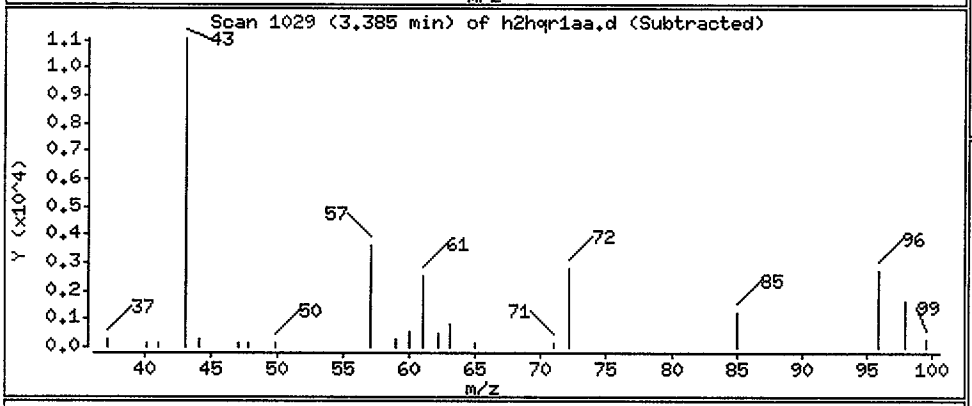
Column diameter: 0.18

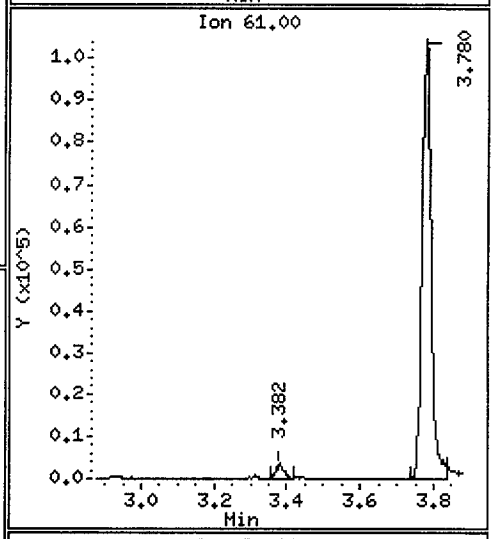
35 cis 1,2-Dichloroethene

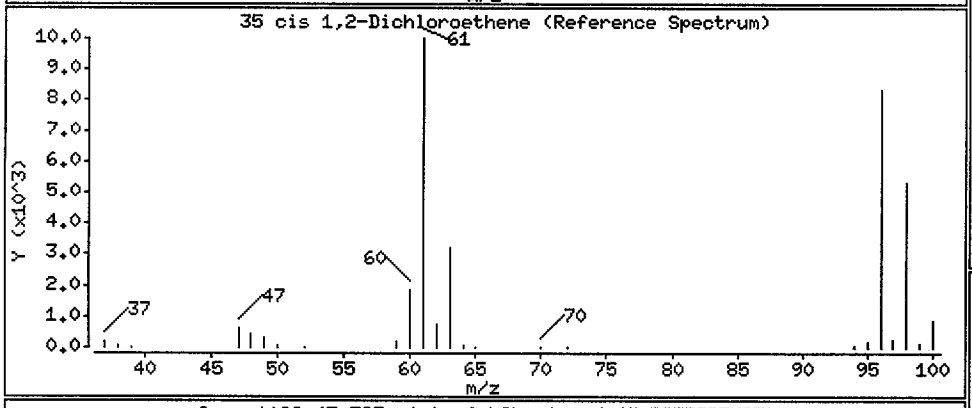
Concentration: 173.39 ug/Kg

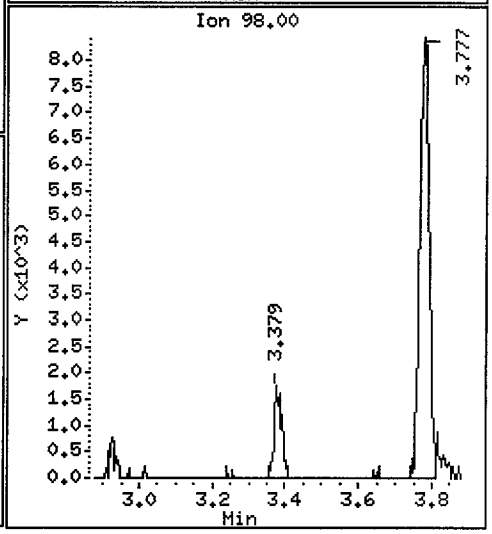


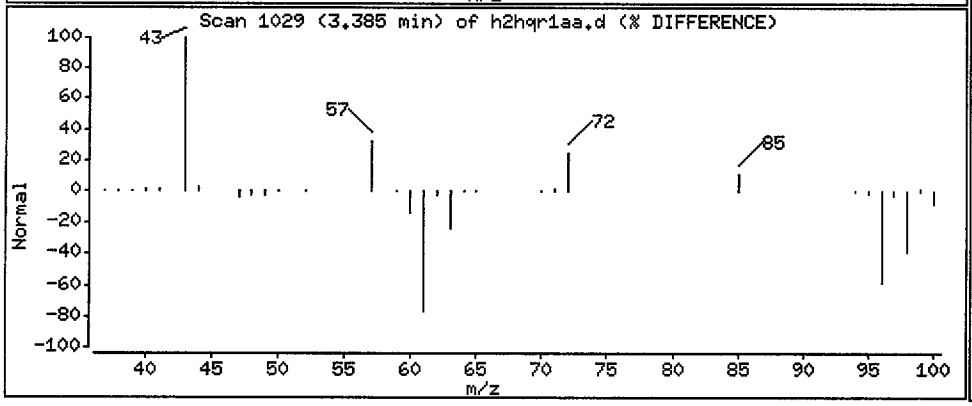












Data File: /chem/gcms/mk.i/K040406.b/h2hqr1aa.d

Date : 04-APR-2006 19:35

Client ID: G-2987-R2-SPENT ACT

Instrument: mk.i

Sample Info: H2HQR1AA,5,0,,

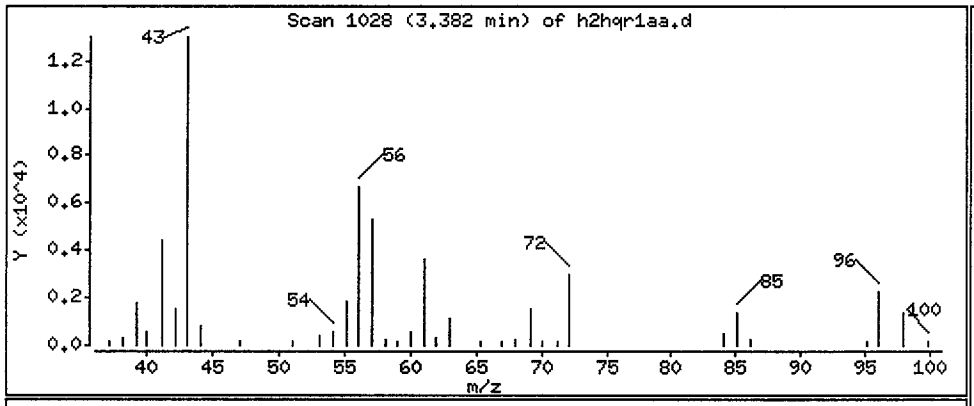
Operator: 063605

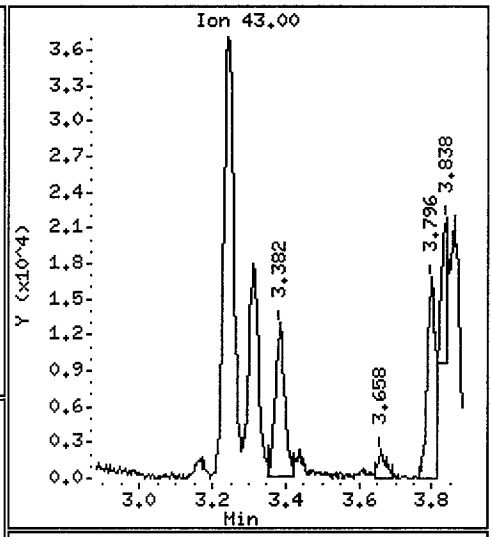
Column phase: J&W-624

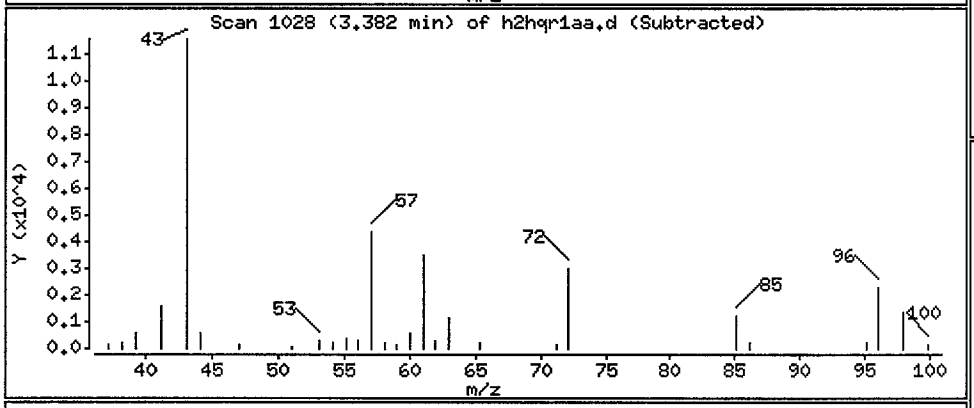
Column diameter: 0.18

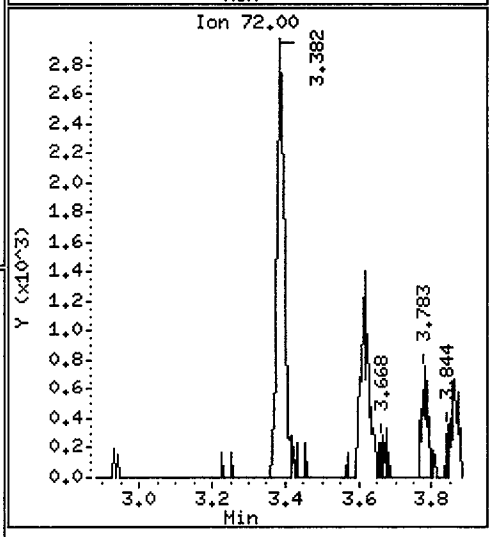
36 2-Butanone

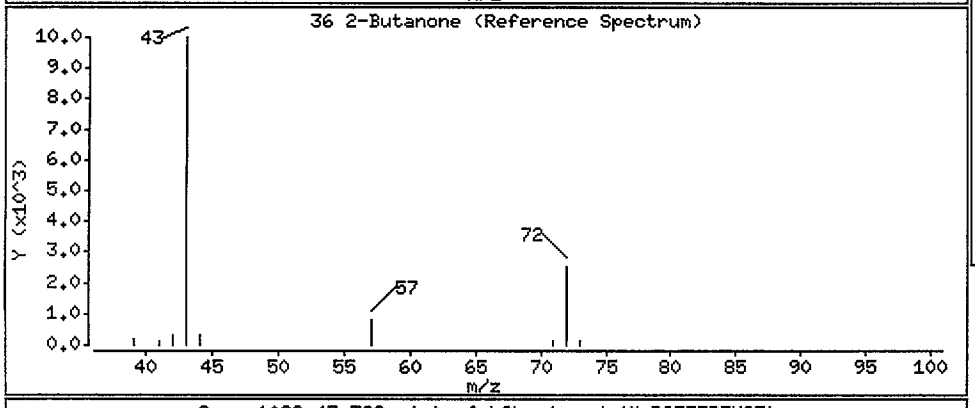
Concentration: 3247.3 ug/Kg

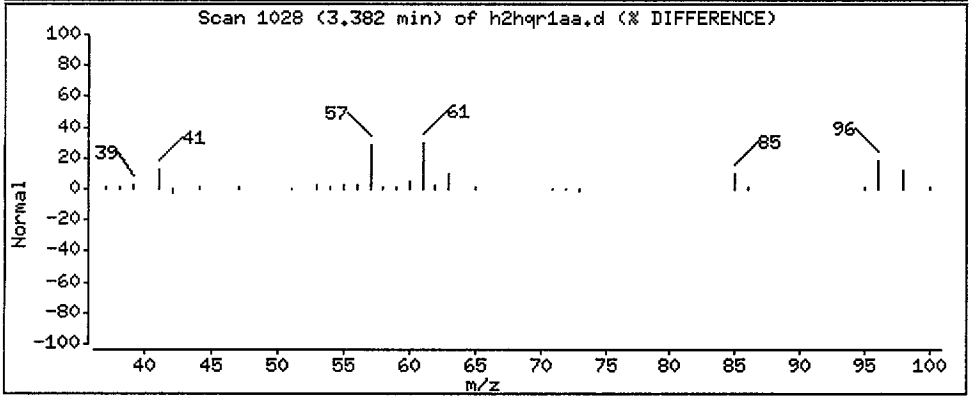












Data File: /chem/gcms/mk.i/K040406.b/h2hqr1aa.d

Date : 04-APR-2006 19:35

Client ID: G-2987-R2-SPENT ACT

Instrument: mk.i

Sample Info: H2HQR1AA,5,0,,

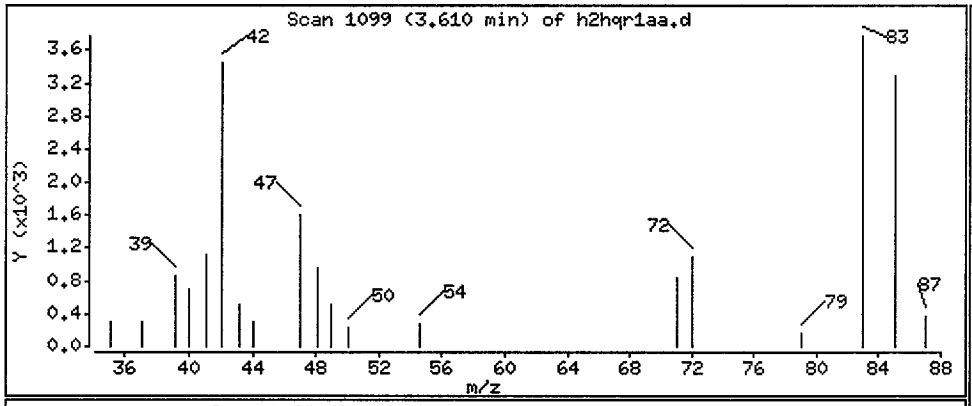
Operator: 063605

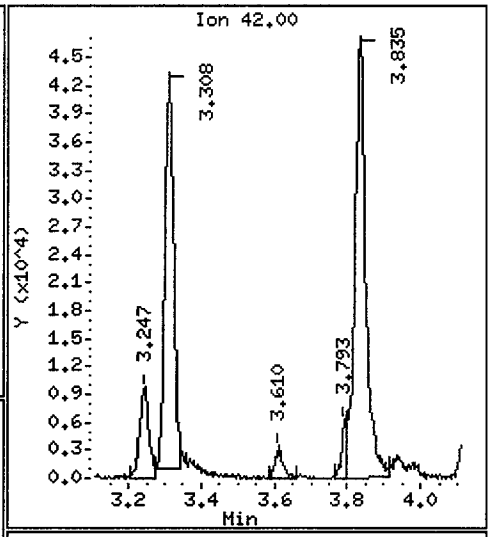
Column phase: J&W-624

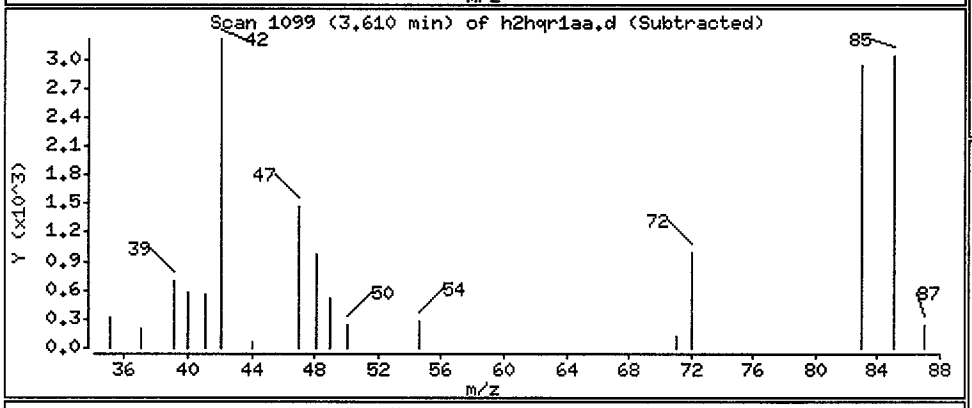
Column diameter: 0.18

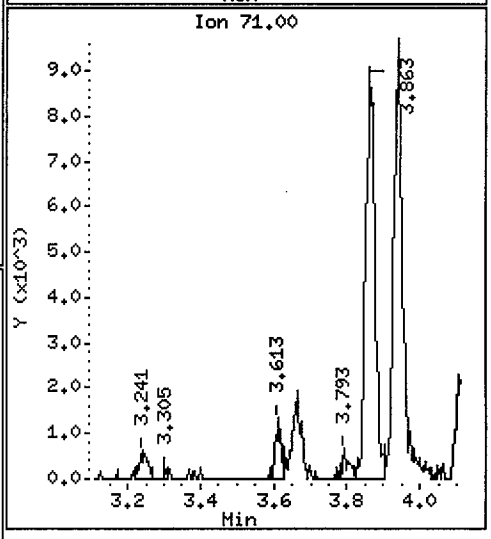
39 *THF

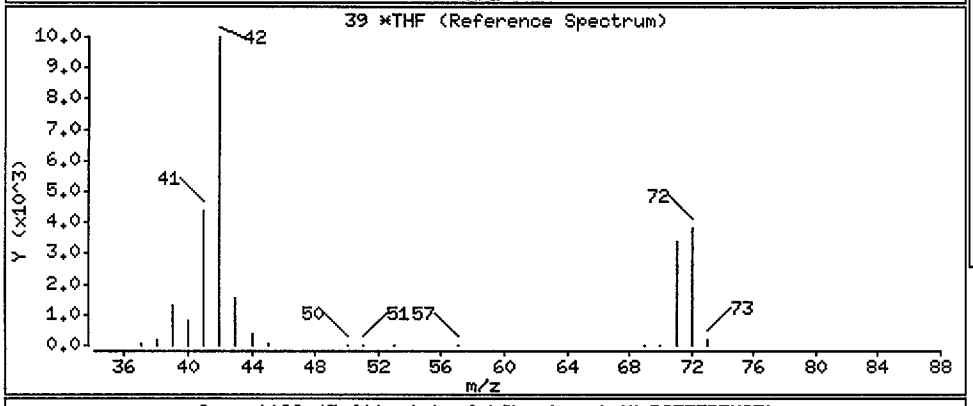
Concentration: 1051.1 ug/Kg

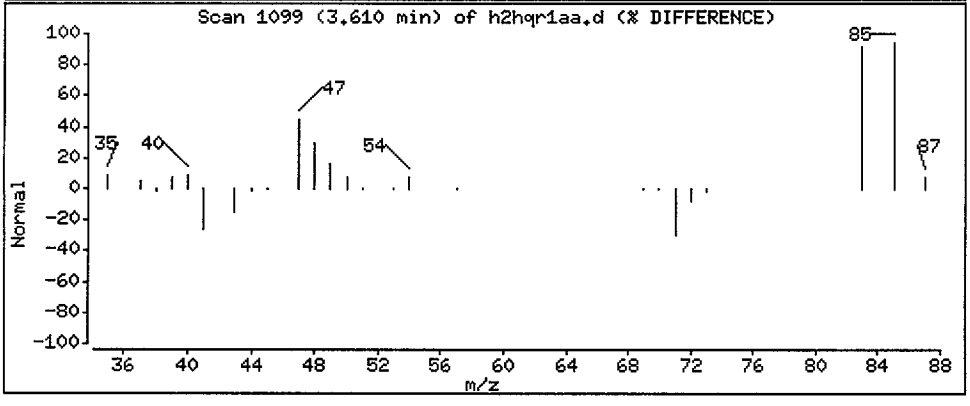












Data File: /chem/gcms/mk.i/K040406.b/h2hqr1aa.d

Date : 04-APR-2006 19:35

Client ID: G-2987-R2-SPENT ACT

Instrument: mk.i

Sample Info: H2HQR1AA,5,0,,

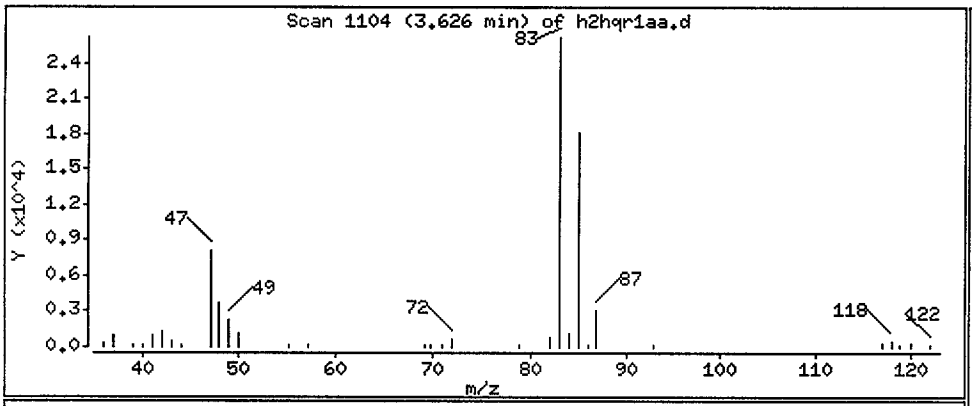
Operator: 063605

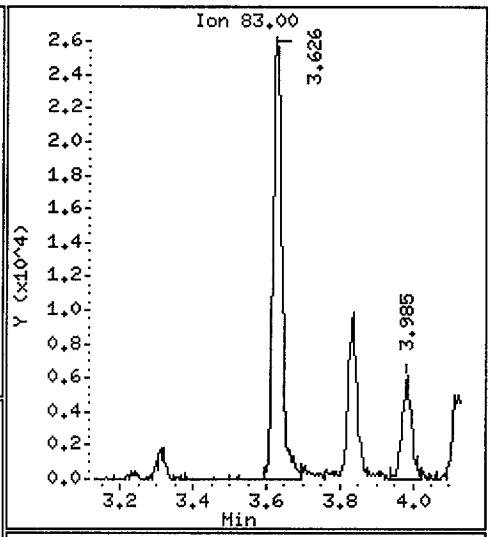
Column phase: J&W-624

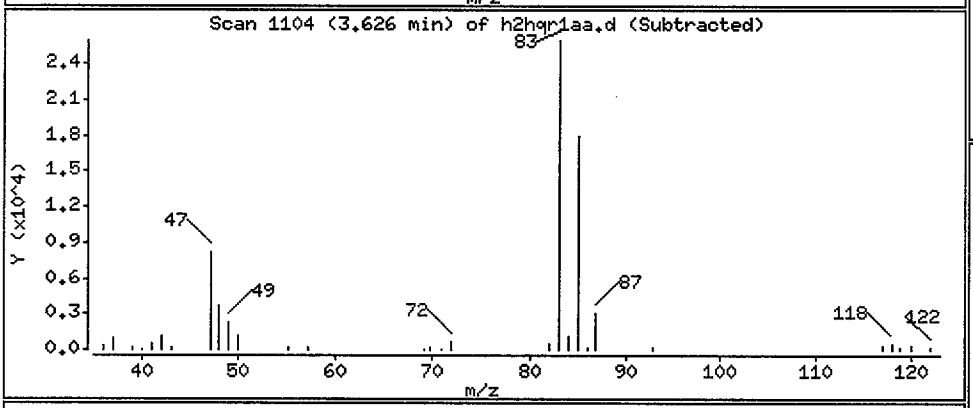
Column diameter: 0.18

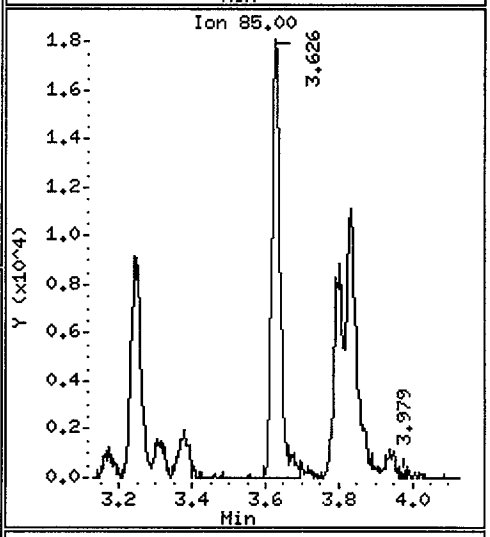
40 Chloroform (ccc)

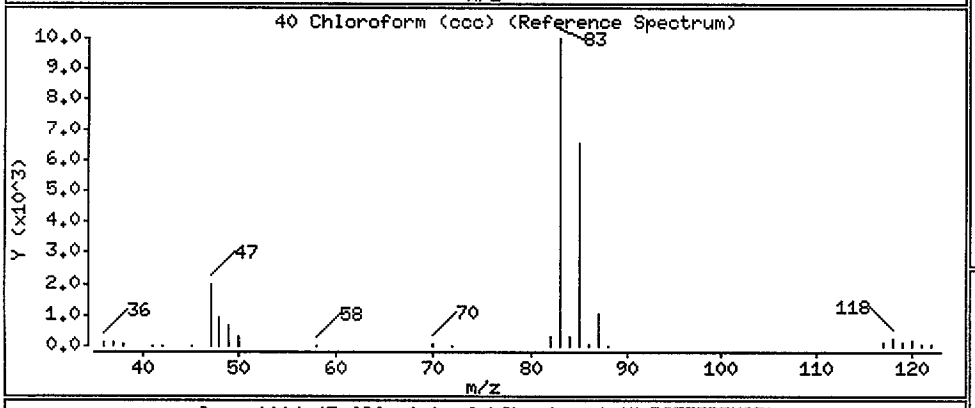
Concentration: 1302.2 ug/Kg

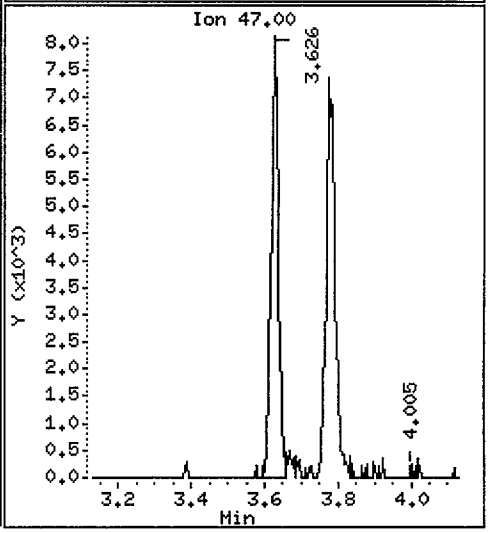


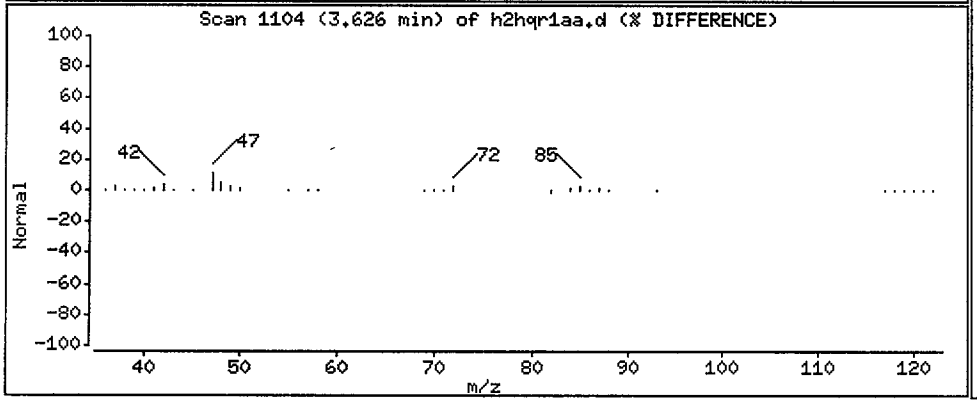












Data File: /chem/gcms/mk.i/K040406.b/h2hqr1aa.d

Date : 04-APR-2006 19:35

Client ID: G-2987-R2-SPENT ACT

Instrument: mk.i

Sample Info: H2HQR1AA,5,0,,

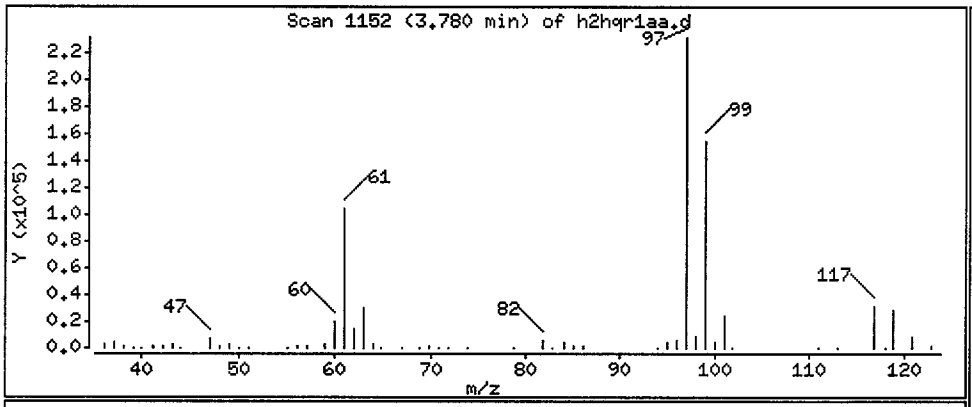
Operator: 063605

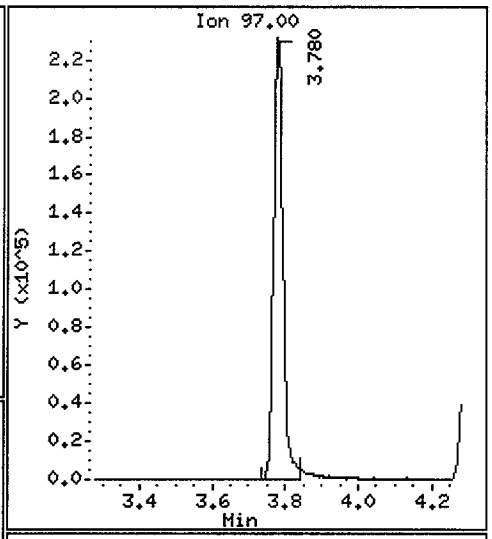
Column phase: J&W-624

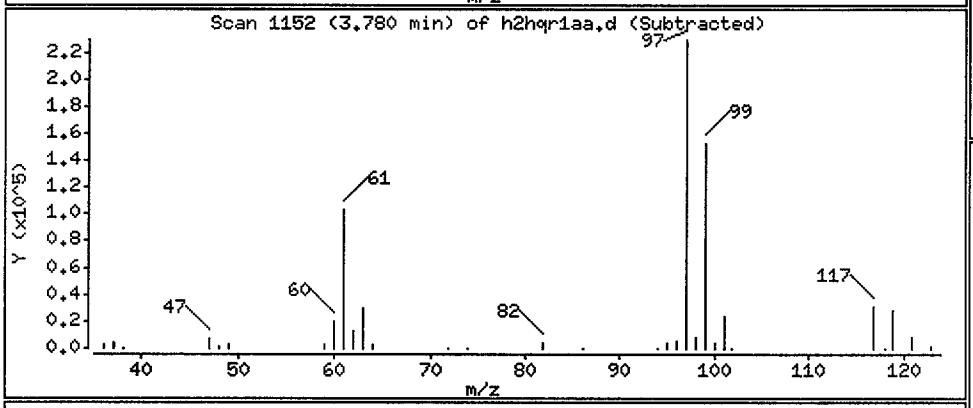
Column diameter: 0.18

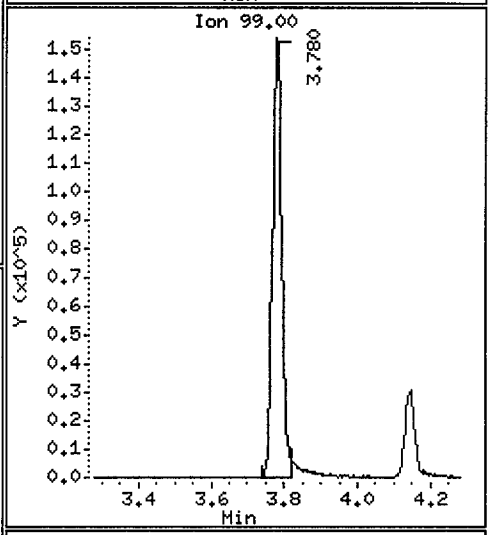
41 1,1,1-Trichloroethane

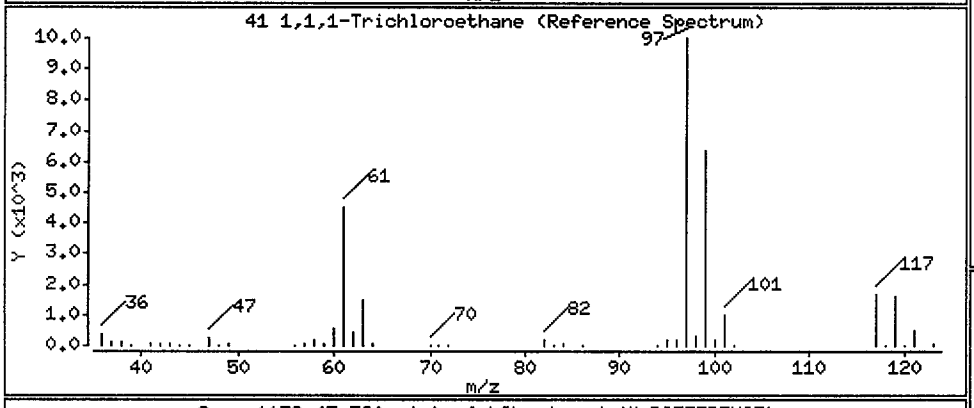
Concentration: 14176 ug/Kg

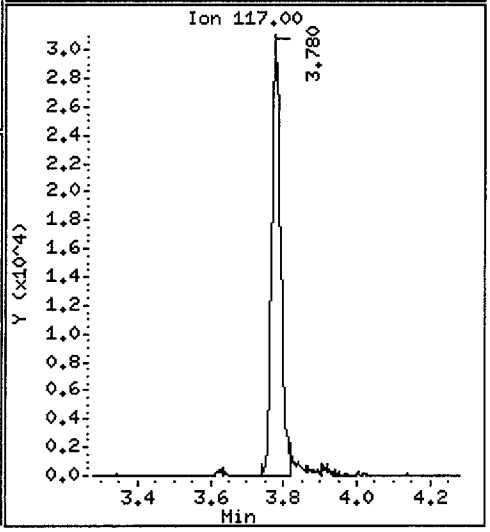


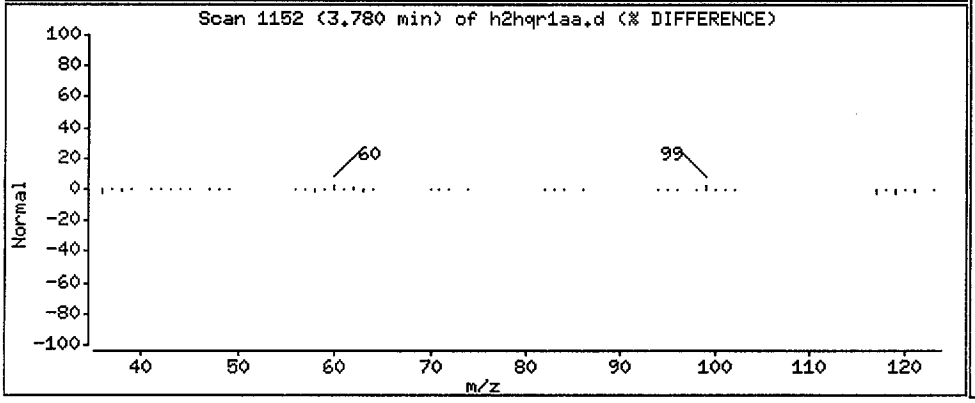












Data File: /chem/gcms/mk.i/K040406.b/h2hqr1aa.d

Date : 04-APR-2006 19:35

Client ID: G-2987-R2-SPENT ACT

Instrument: mk.i

Sample Info: H2HQR1AA,5,0,,

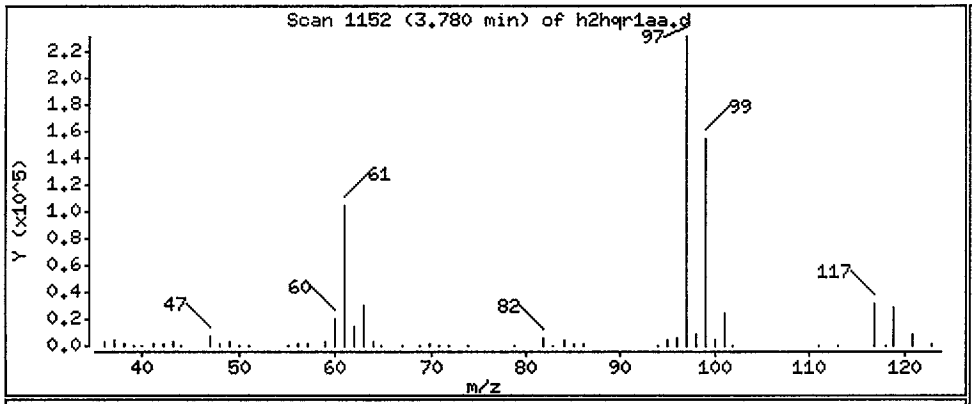
Operator: 063605

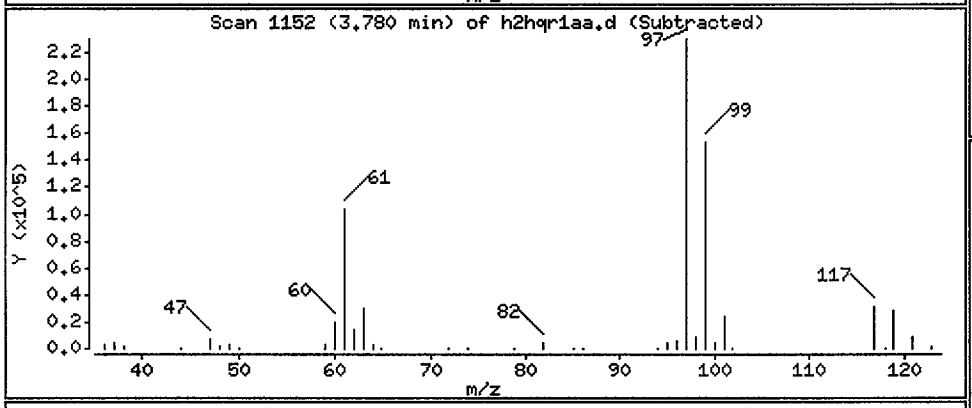
Column phase: J&W-624

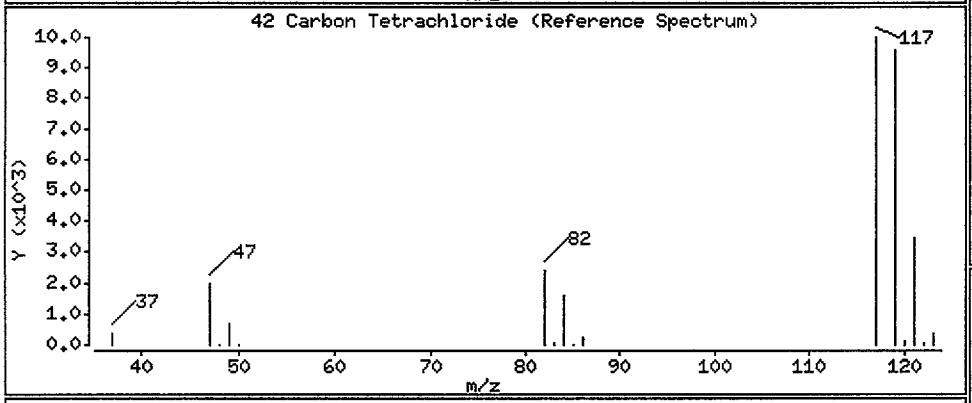
Column diameter: 0.18

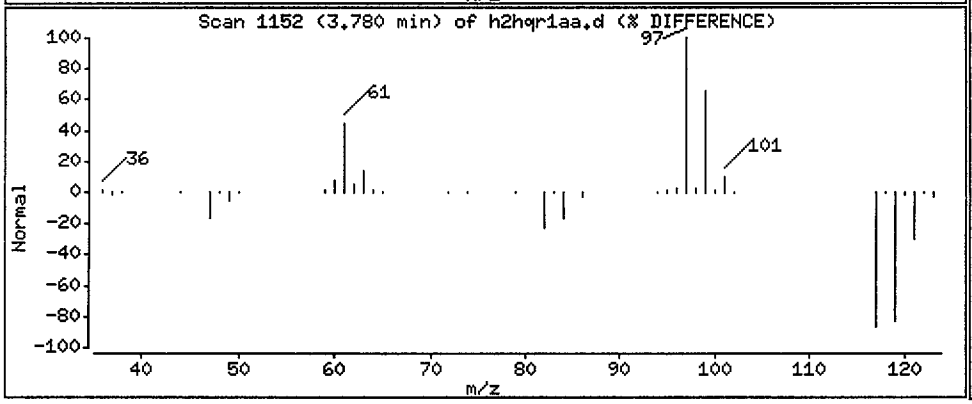
42 Carbon Tetrachloride

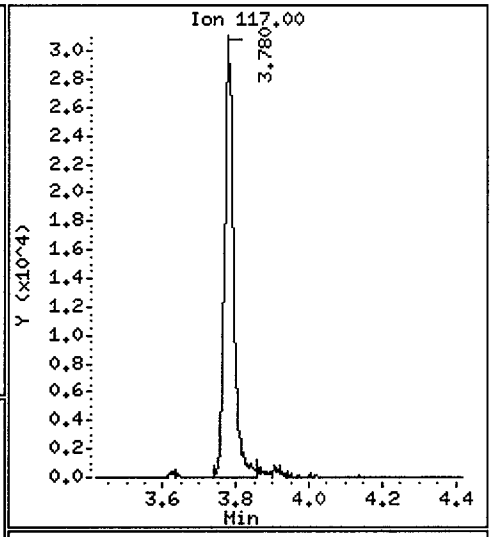
Concentration: 2382.8 ug/Kg

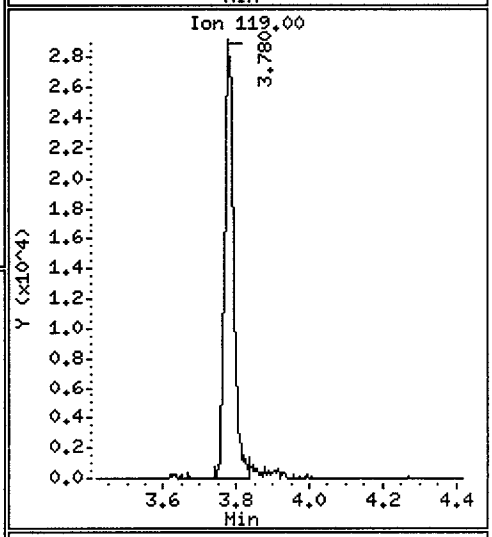


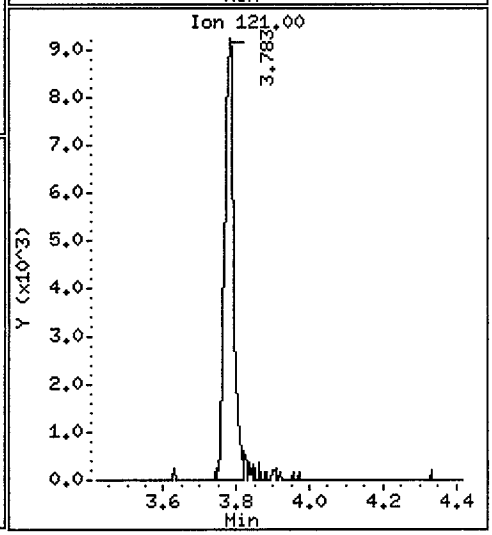












Data File: /chem/gcms/mk.i/K040406.b/h2hqr1aa.d

Date : 04-APR-2006 19:35

Client ID: G-2987-R2-SPENT ACT

Instrument: mk.i

Sample Info: H2HQR1AA,5,0,,

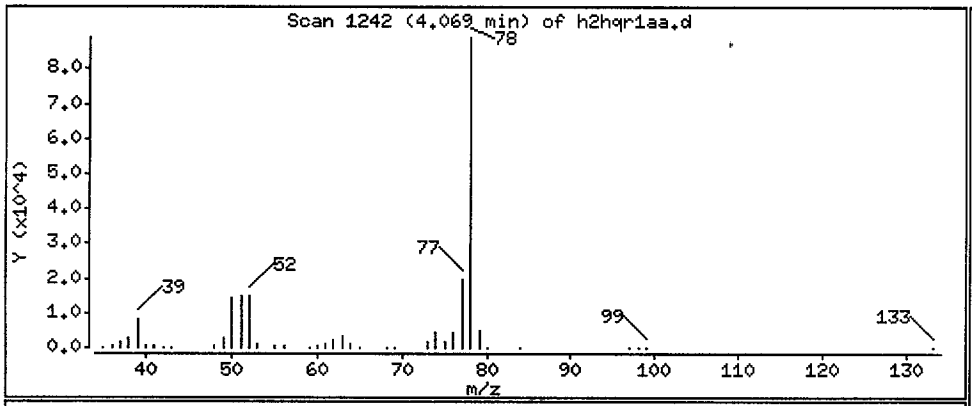
Operator: 063605

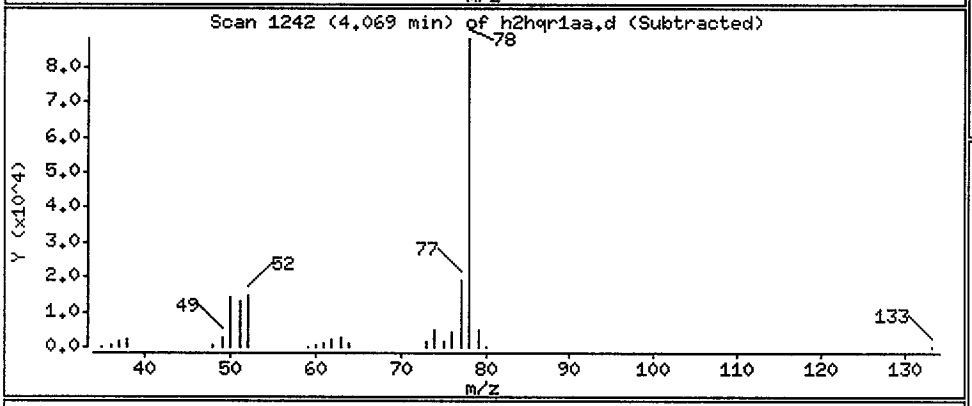
Column phase: J&W-624

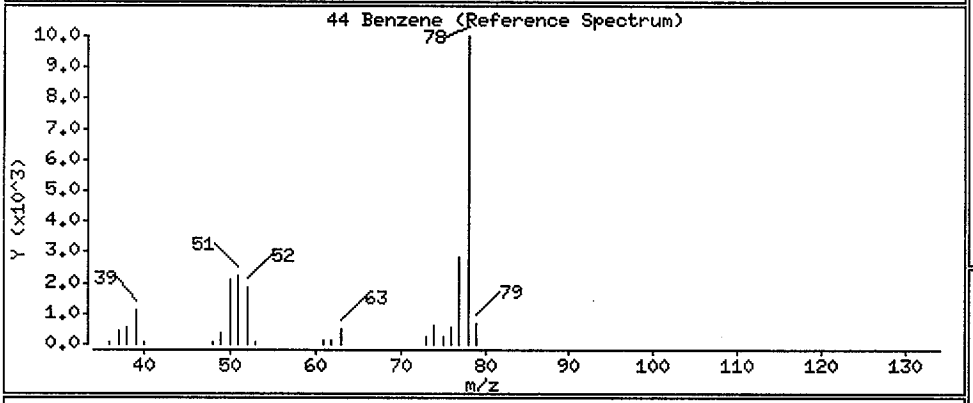
Column diameter: 0.18

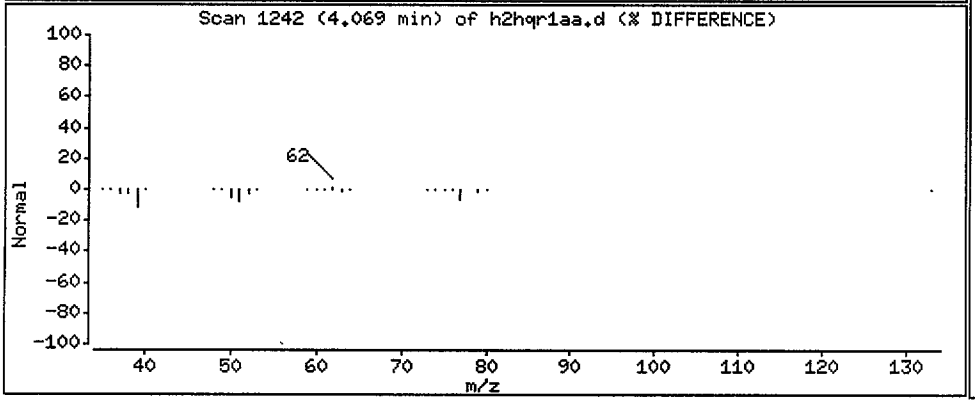
44 Benzene

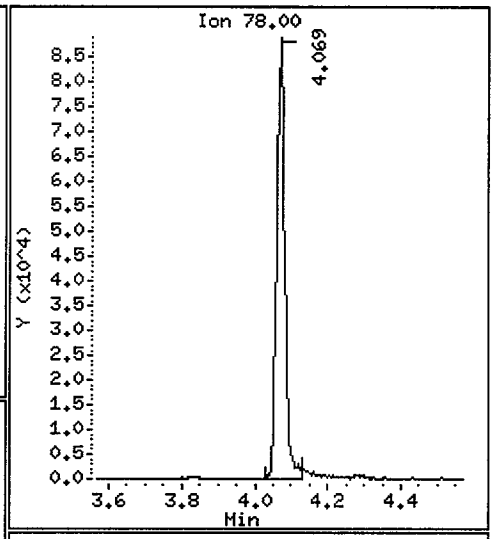
Concentration: 1687.1 ug/Kg

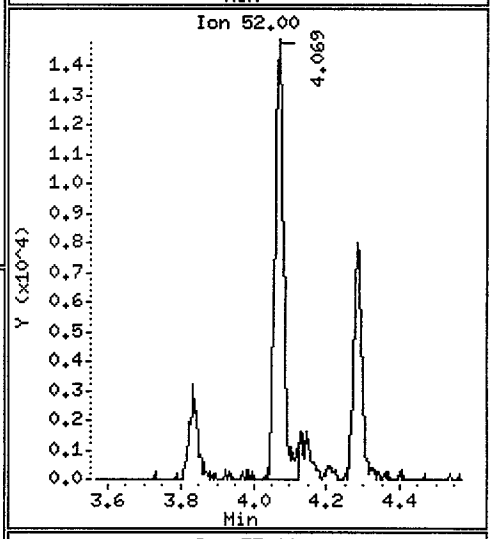


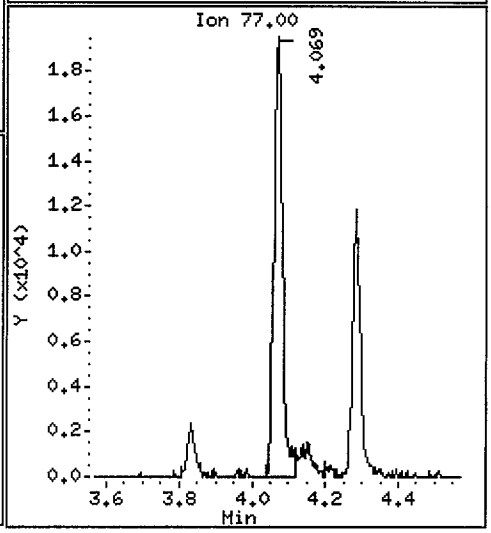












Data File: /chem/gcms/mk.i/K040406.b/h2hqr1aa.d

Date : 04-APR-2006 19:35

Client ID: G-2987-R2-SPENT ACT

Instrument: mk.i

Sample Info: H2HQR1AA,5,0,,

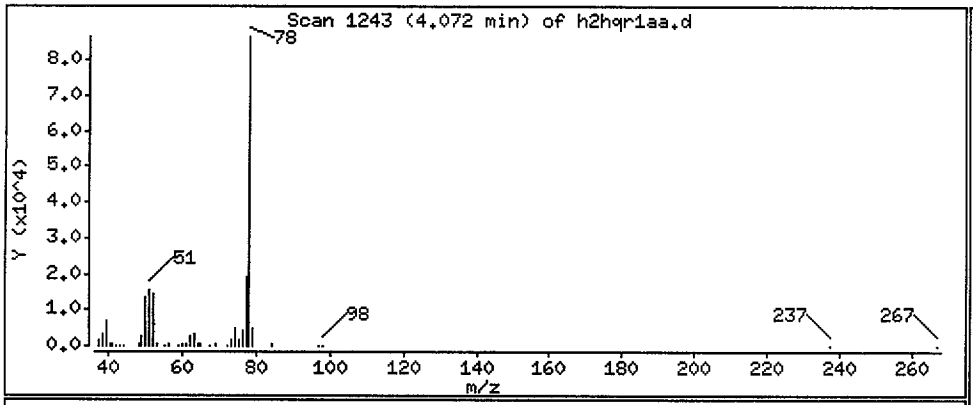
Operator: 063605

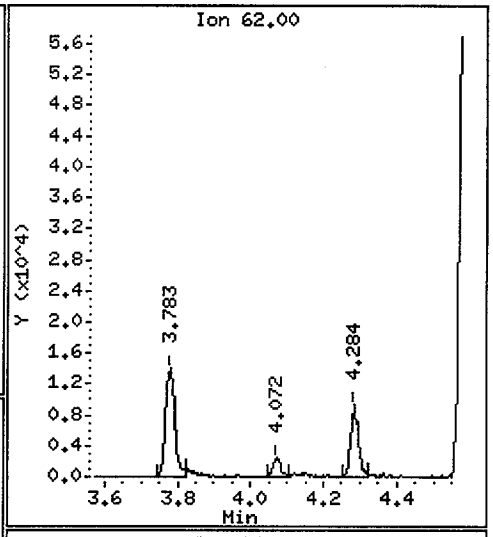
Column phase: J&W-624

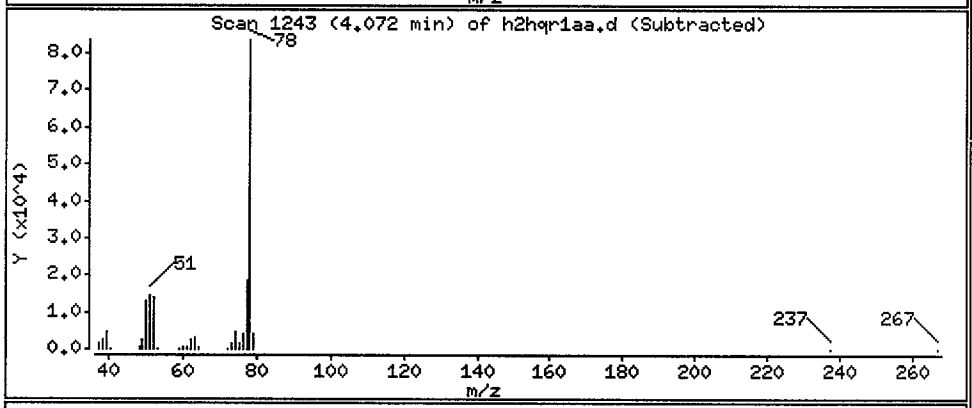
Column diameter: 0.18

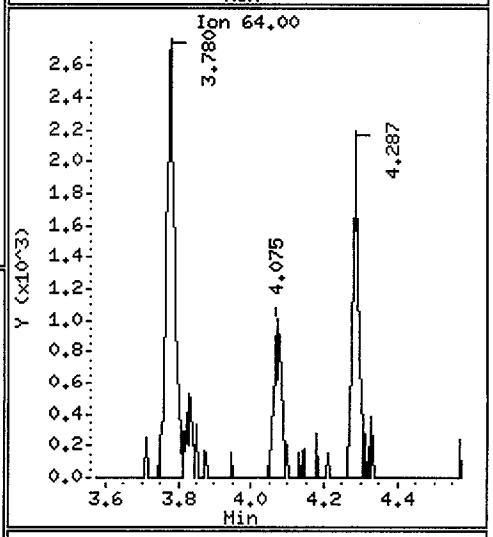
45 1,2-Dichloroethane

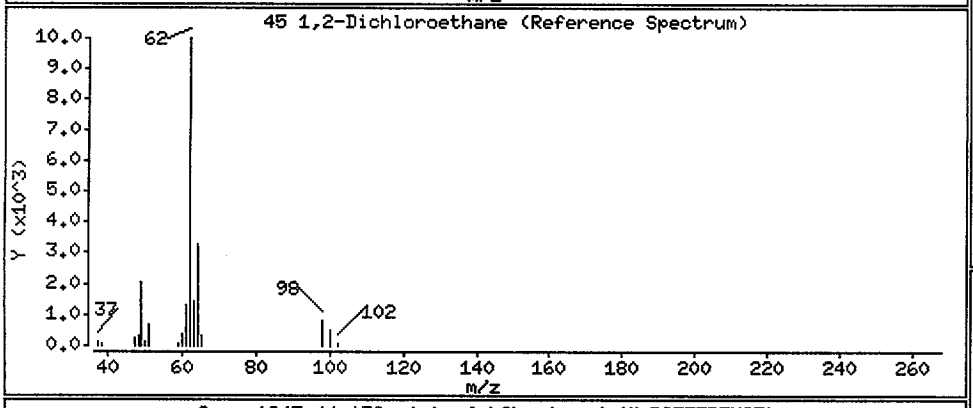
Concentration: 153.38 ug/Kg

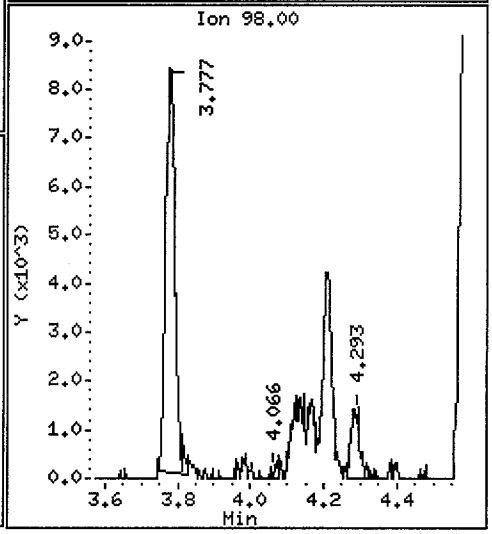


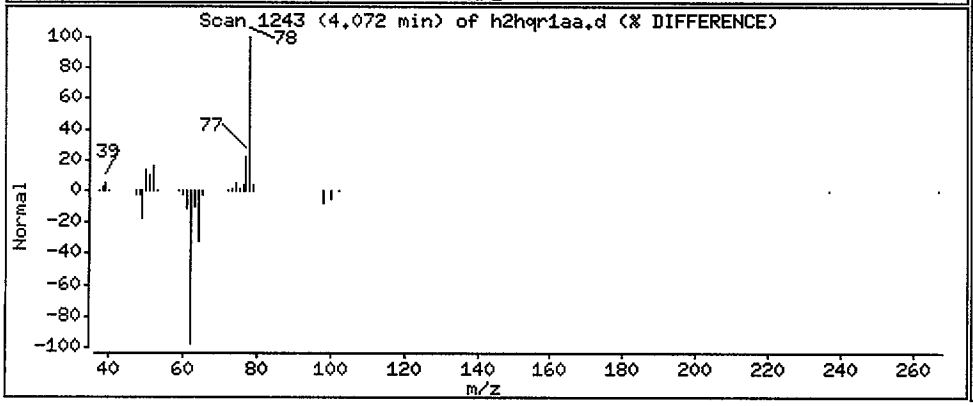












Data File: /chem/gcms/mk.i/K040406.b/h2hqr1aa.d

Date : 04-APR-2006 19:35

Client ID: G-2987-R2-SPENT ACT

Instrument: mk.i

Sample Info: H2HQR1AA,5,0,,

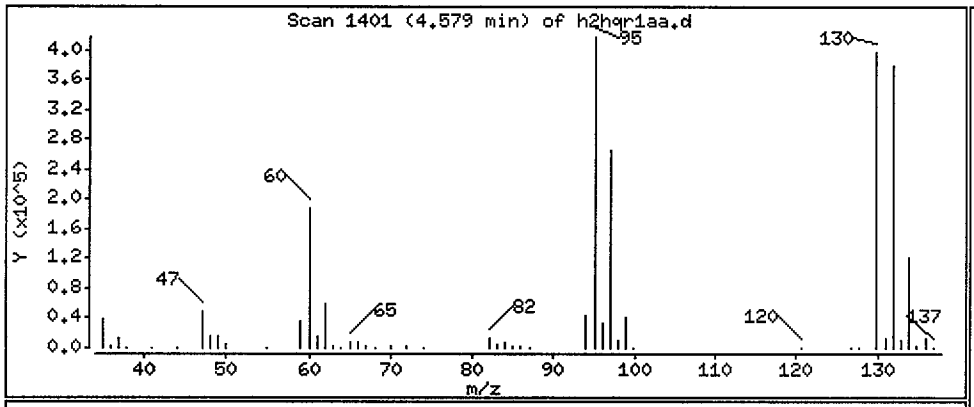
Operator: 063605

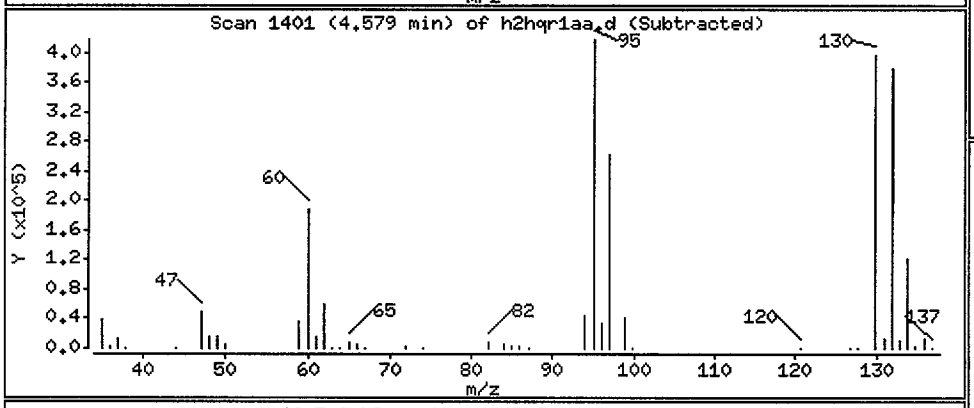
Column phase: J&W-624

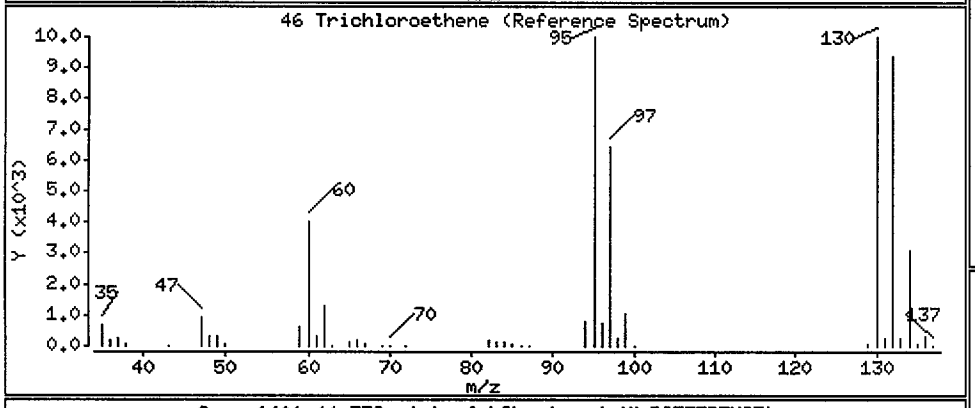
Column diameter: 0.18

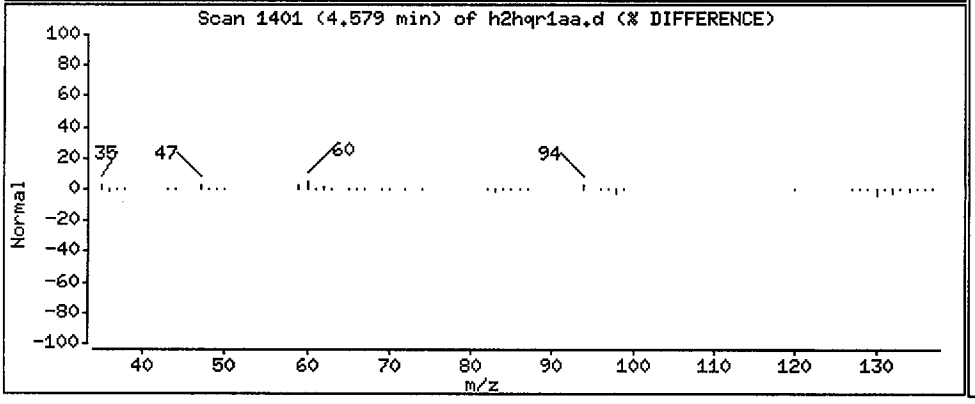
46 Trichloroethene

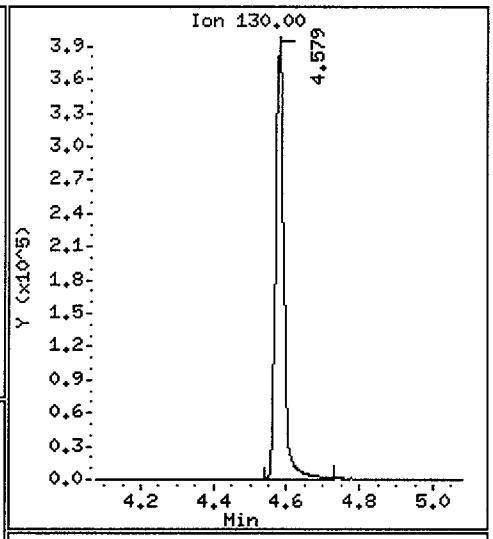
Concentration: 32364 ug/Kg

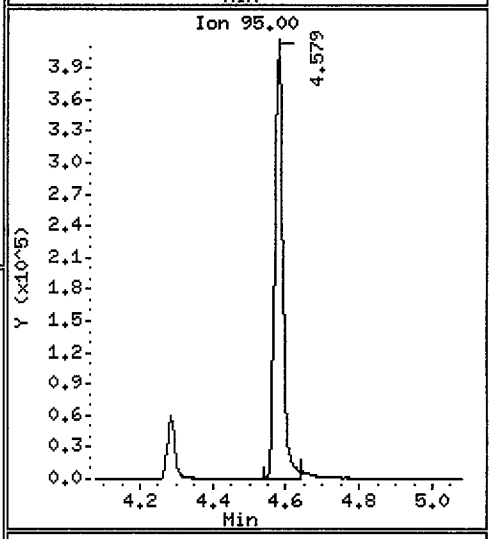


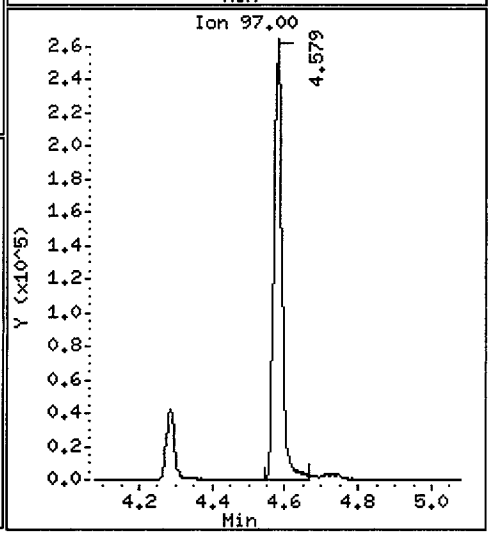












Data File: /chem/gcms/mk.i/K040406.b/h2hqr1aa.d

Date : 04-APR-2006 19:35

Client ID: G-2987-R2-SPENT ACT

Instrument: mk.i

Sample Info: H2HQR1AA,5,0,,

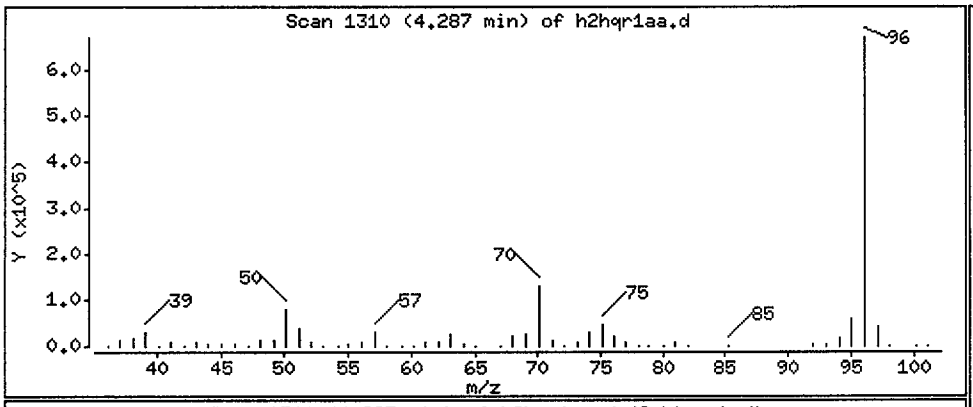
Operator: 063605

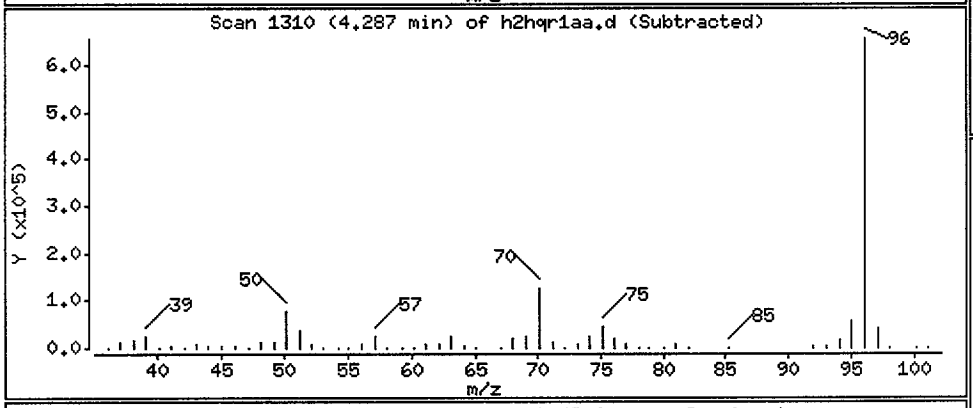
Column phase: J&W-624

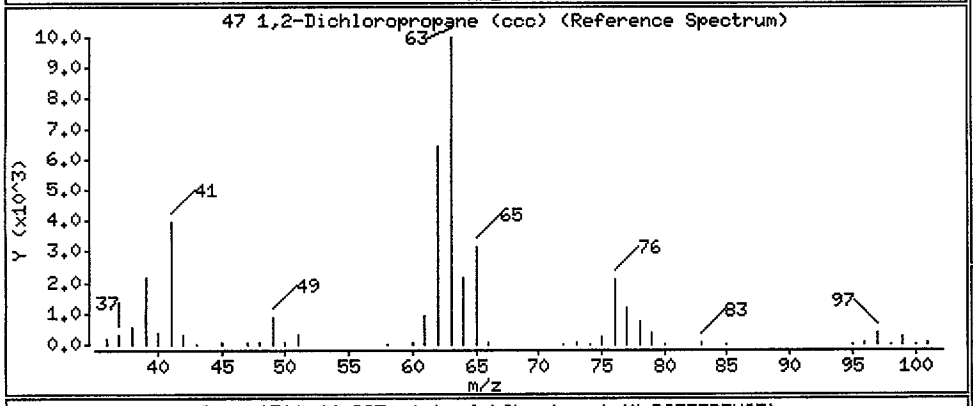
Column diameter: 0.18

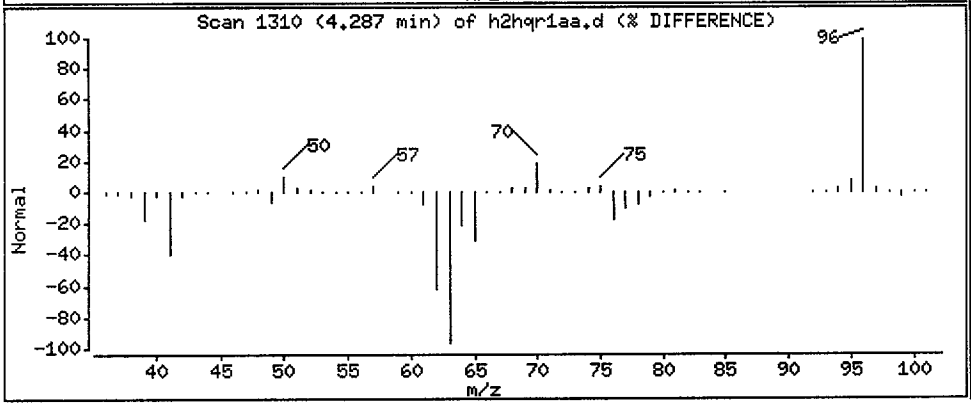
47 1,2-Dichloropropane (ccc)

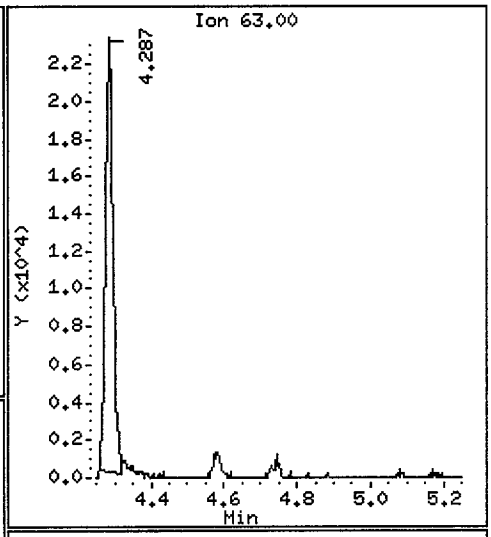
Concentration: 1636.8 ug/Kg

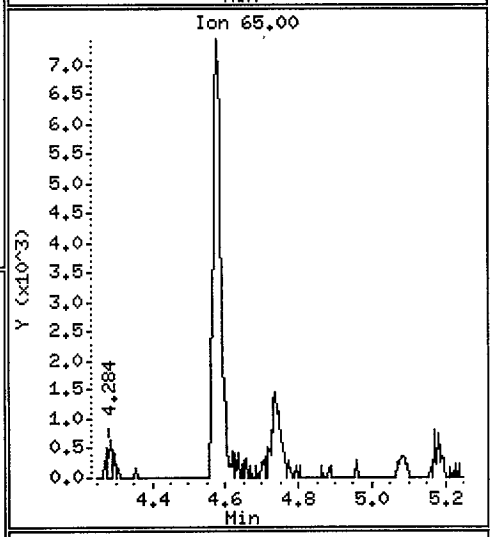


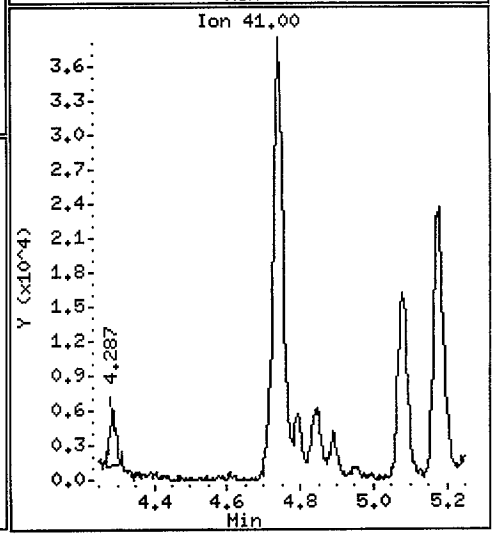












Data File: /chem/gcms/mk.i/K040406.b/h2hqr1aa.d

Date : 04-APR-2006 19:35

Client ID: G-2987-R2-SPENT ACT

Instrument: mk.i

Sample Info: H2HQR1AA,5,0,,

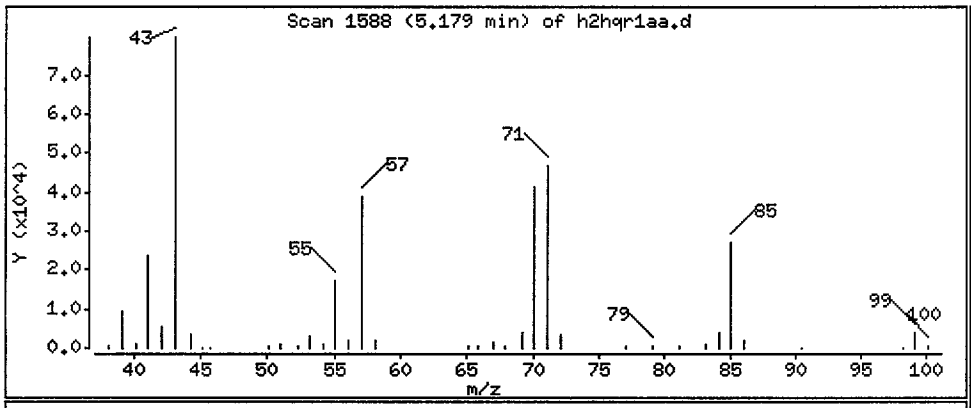
Operator: 063605

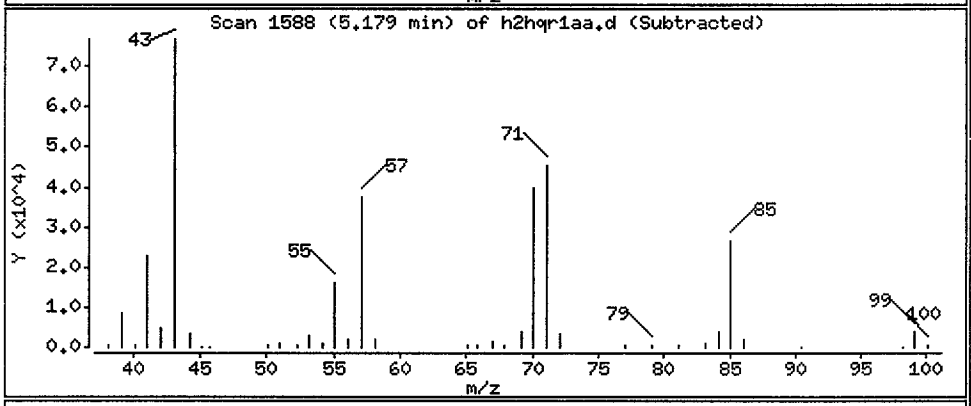
Column phase: J&W-624

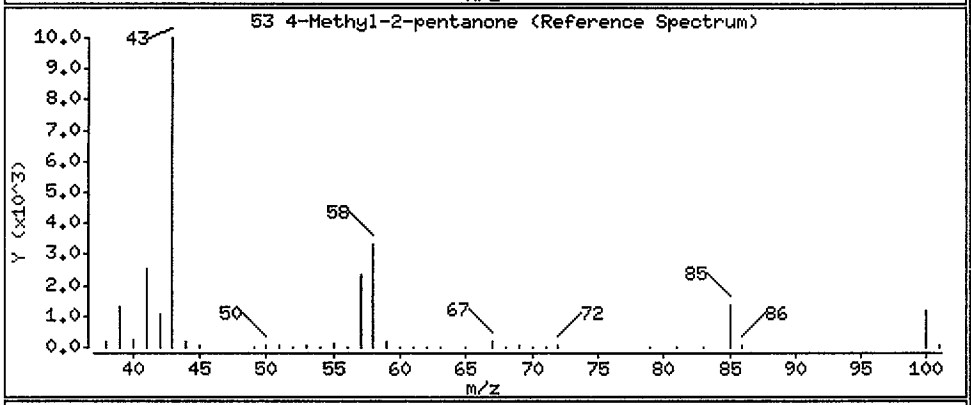
Column diameter: 0.18

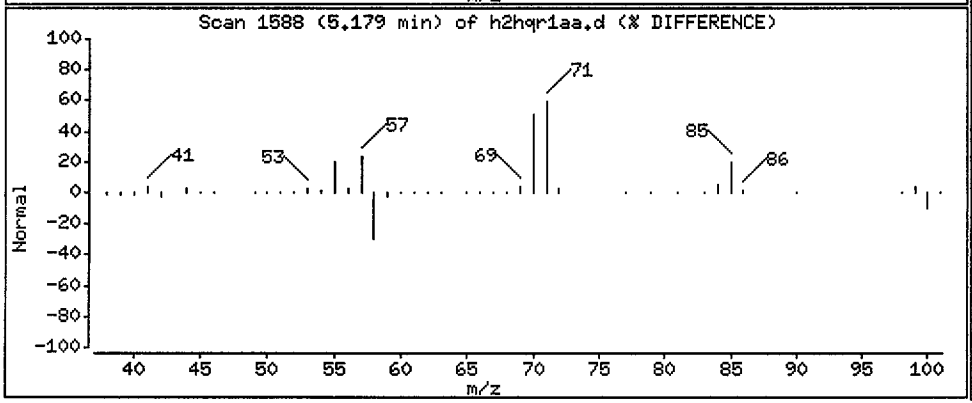
53 4-Methyl-2-pentanone

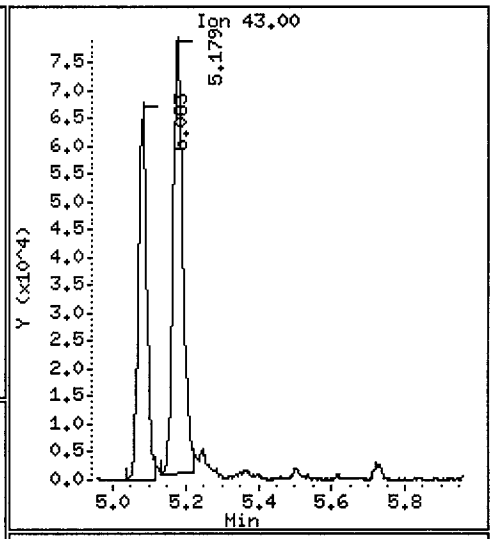
Concentration: 10218 ug/Kg

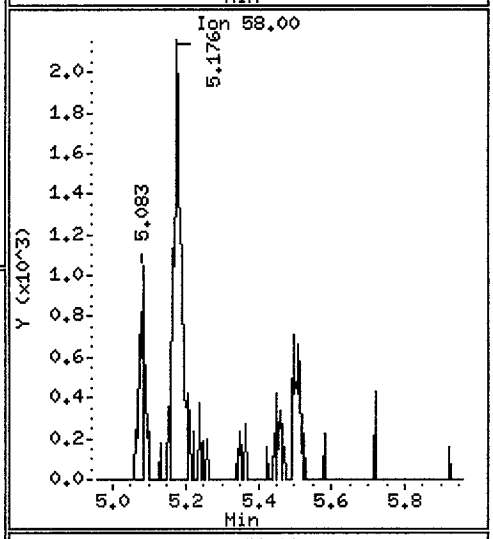


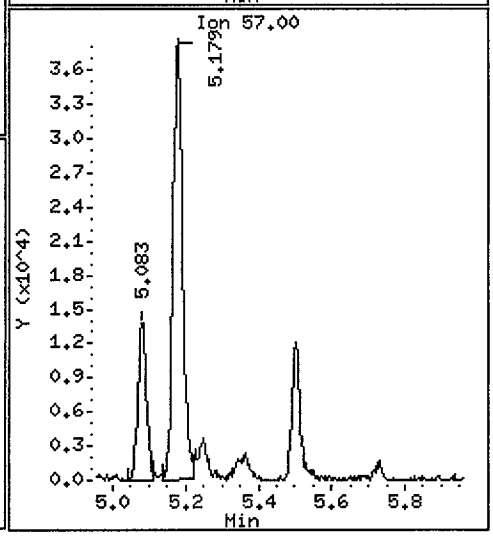












Data File: /chem/gcms/mk.i/K040406.b/h2hqr1aa.d

Date : 04-APR-2006 19:35

Client ID: G-2987-R2-SPENT ACT

Instrument: mk.i

Sample Info: H2HQR1AA,5,0,,

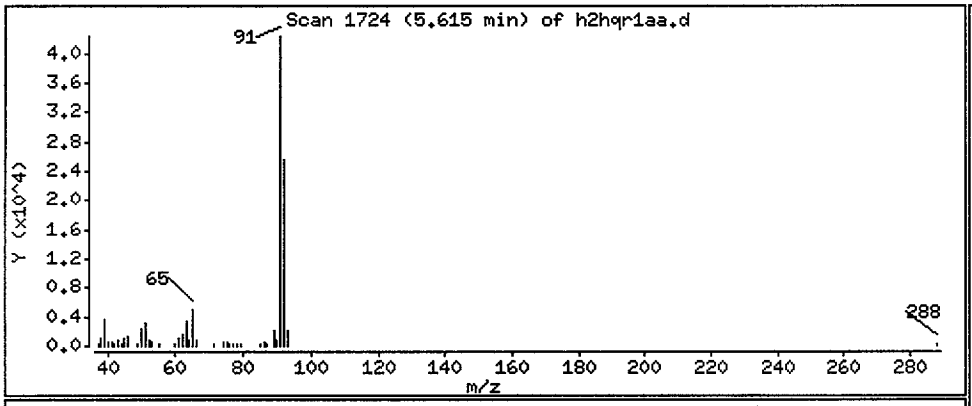
Operator: 063605

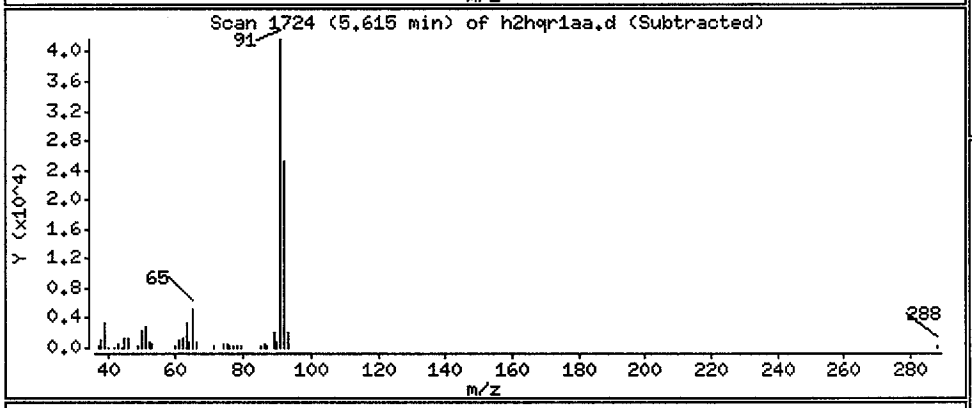
Column phase: J&W-624

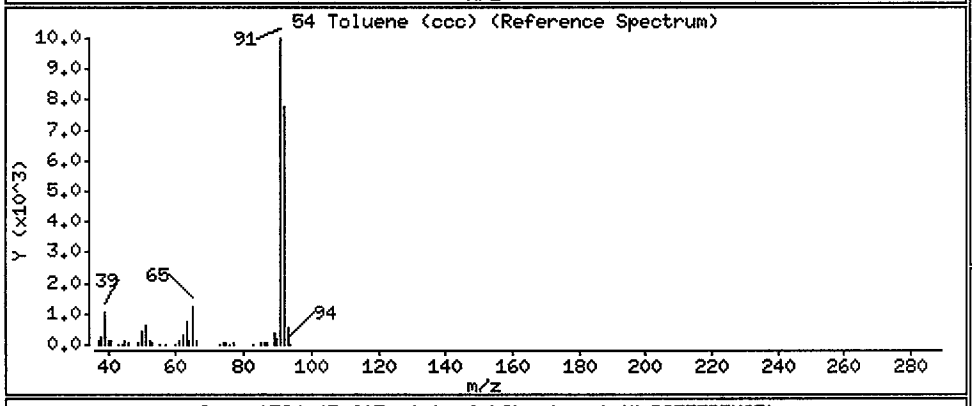
Column diameter: 0.18

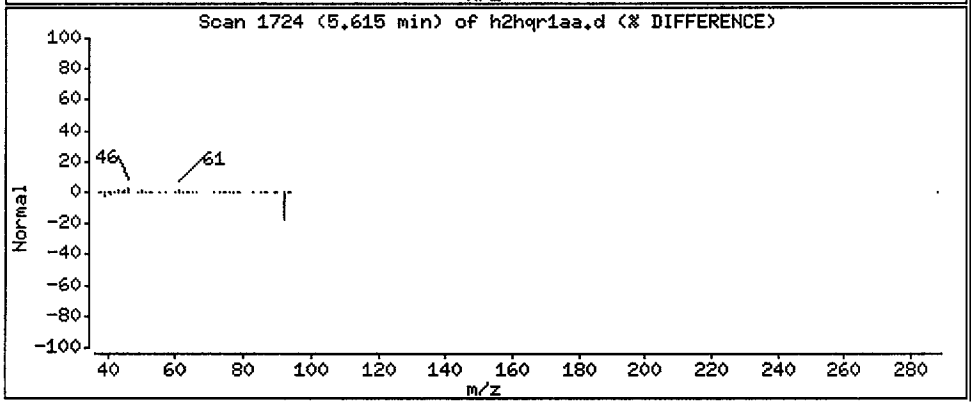
54 Toluene (ccc)

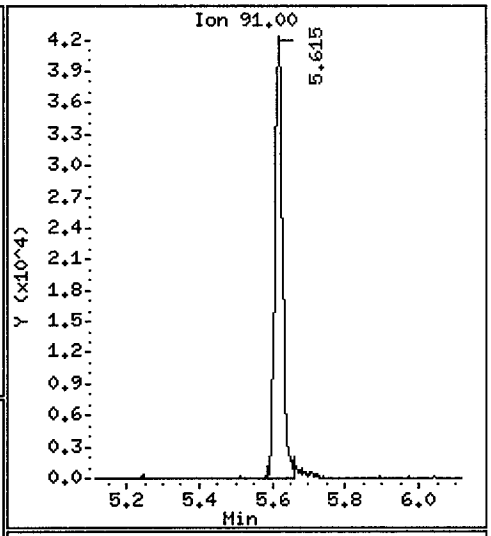
Concentration: 773.72 ug/Kg

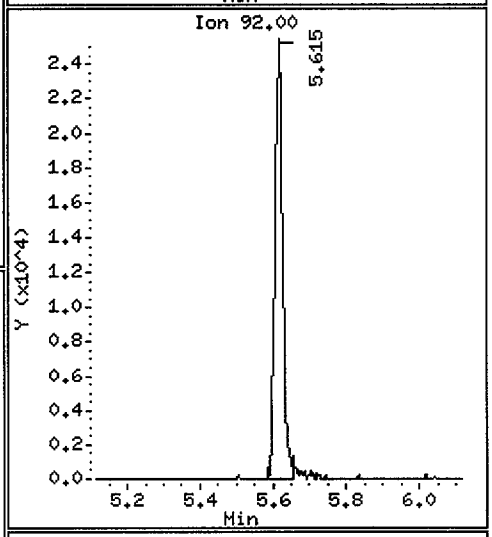


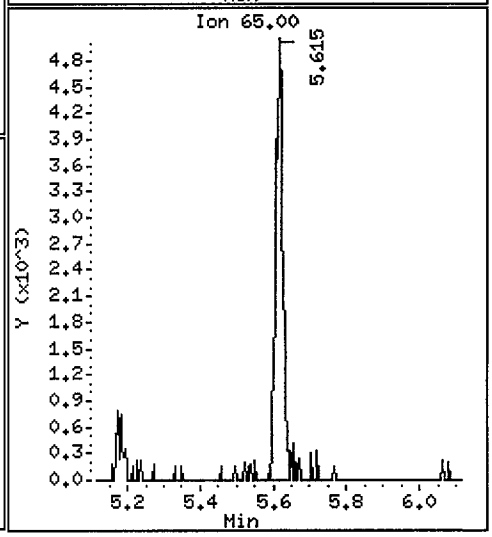












Data File: /chem/gcms/mk.i/K040406.b/h2hqr1aa.d

Date : 04-APR-2006 19:35

Client ID: G-2987-R2-SPENT ACT

Instrument: mk.i

Sample Info: H2HQR1AA,5,0,,

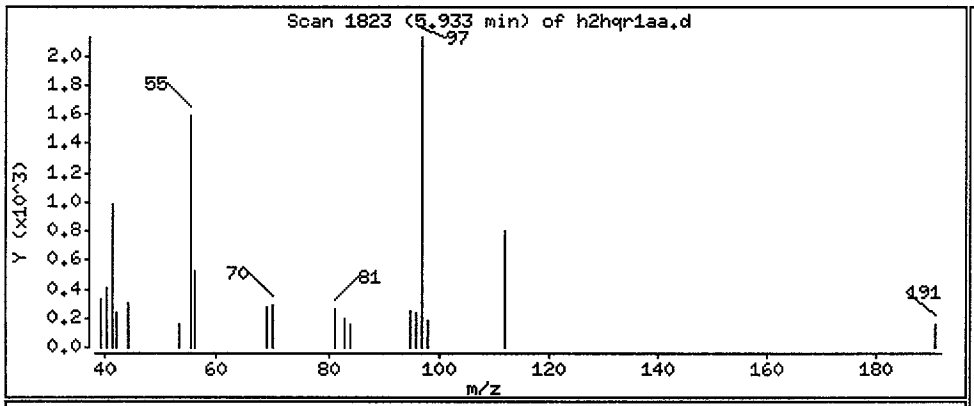
Operator: 063605

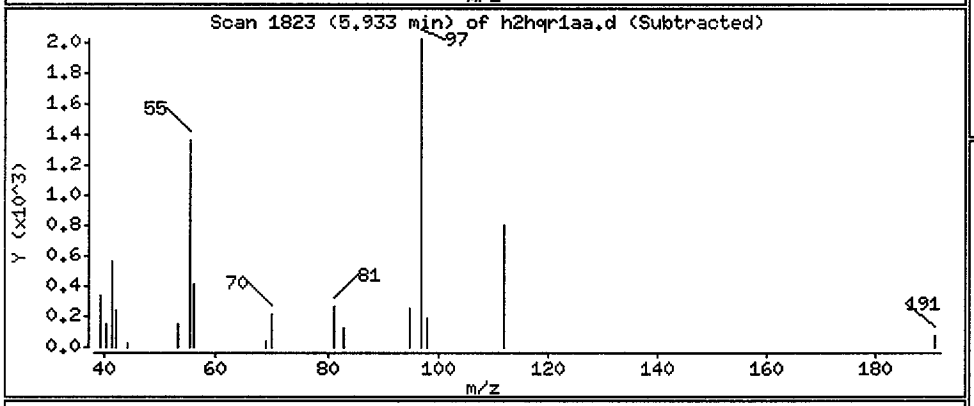
Column phase: J&W-624

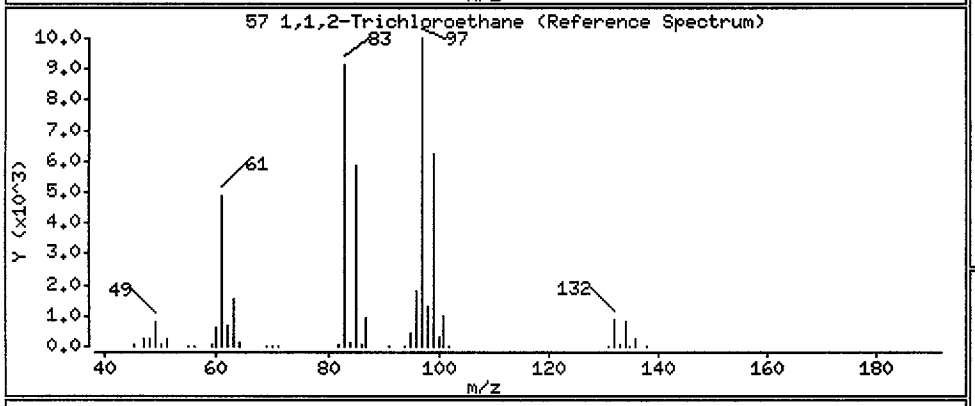
Column diameter: 0.18

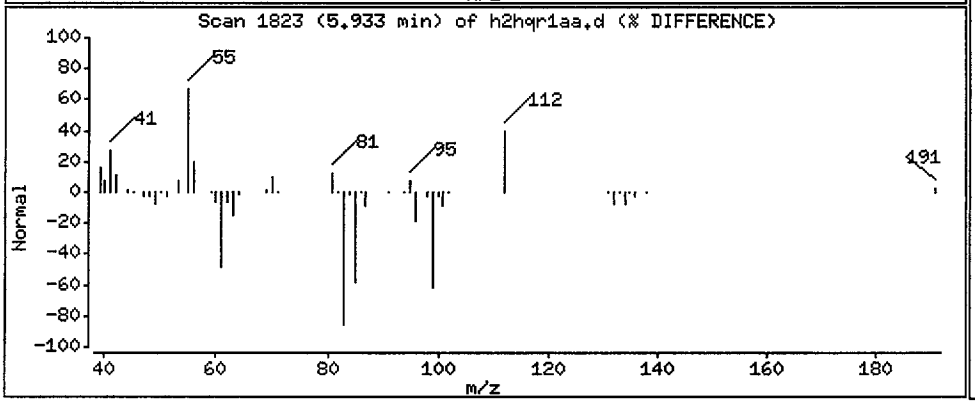
57 1,1,2-Trichloroethane

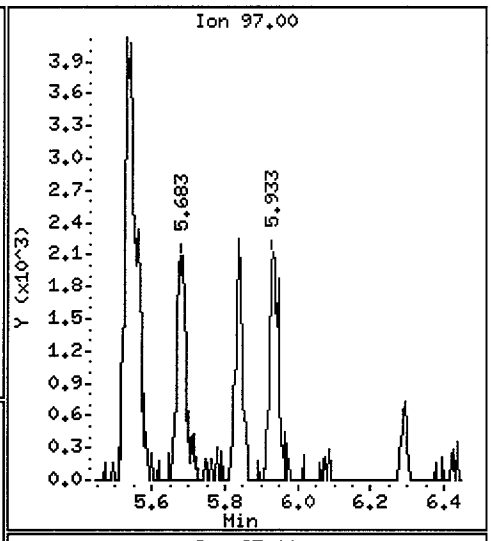
Concentration: 248.84 ug/Kg

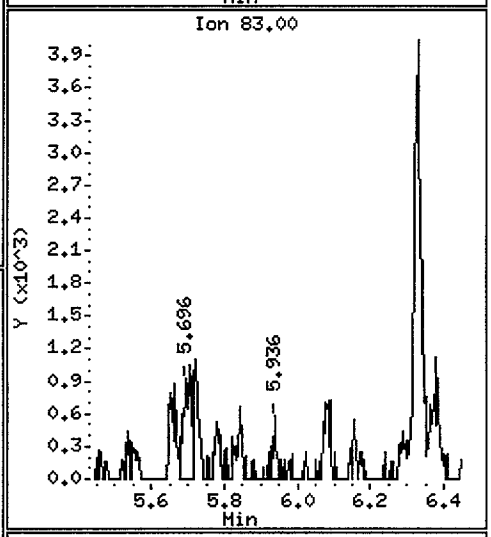


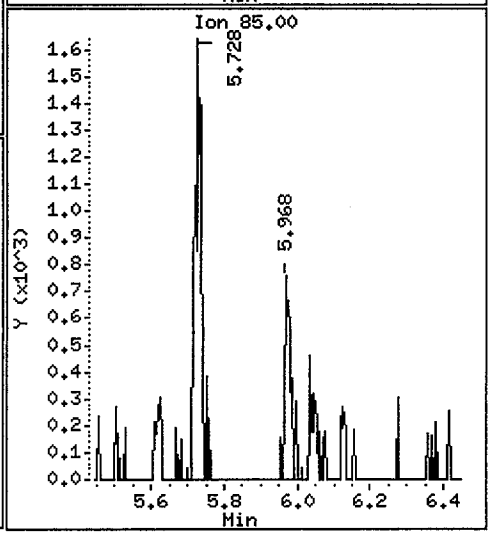












Data File: /chem/gcms/mk.i/K040406.b/h2hqr1aa.d

Date : 04-APR-2006 19:35

Client ID: G-2987-R2-SPENT ACT

Instrument: mk.i

Sample Info: H2HQR1AA,5,0,,

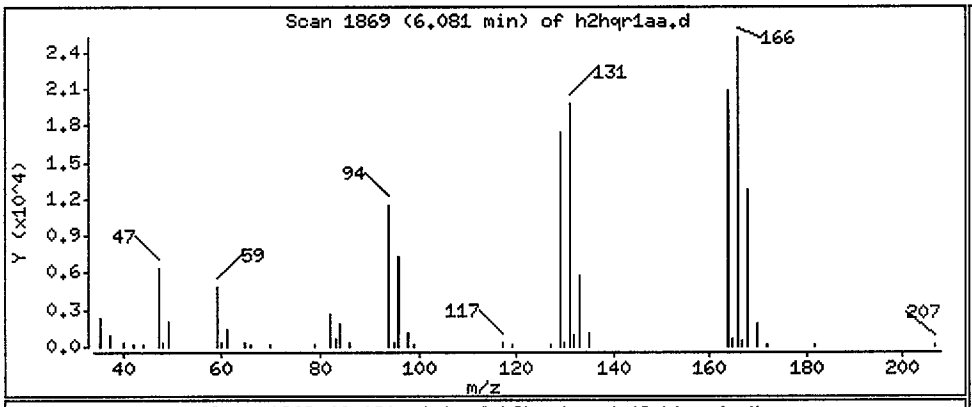
Operator: 063605

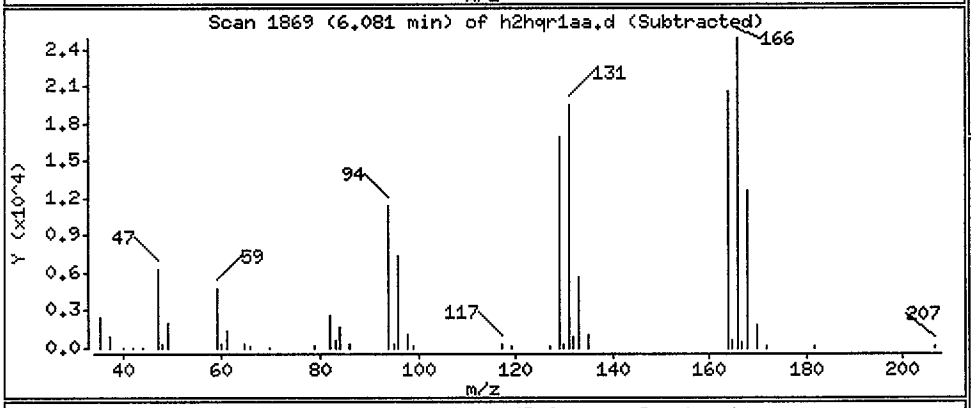
Column phase: J&W-624

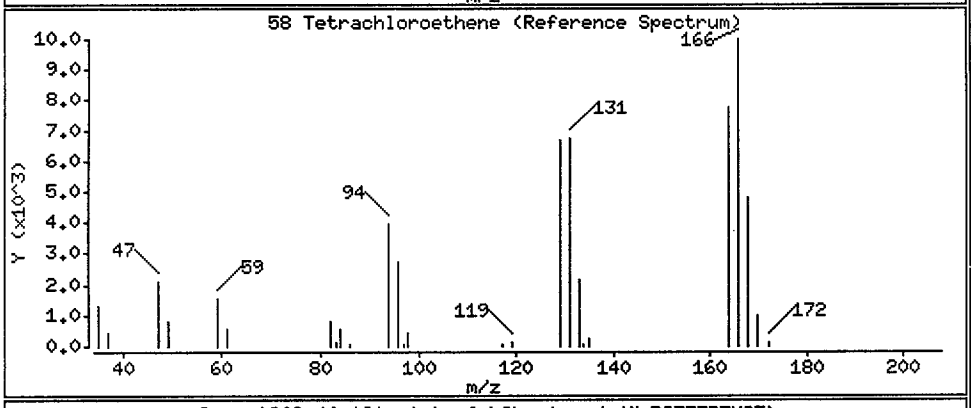
Column diameter: 0.18

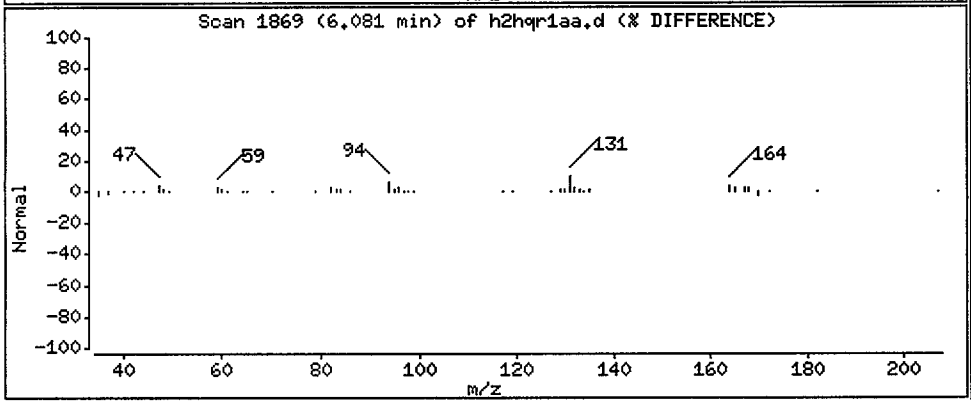
58 Tetrachloroethene

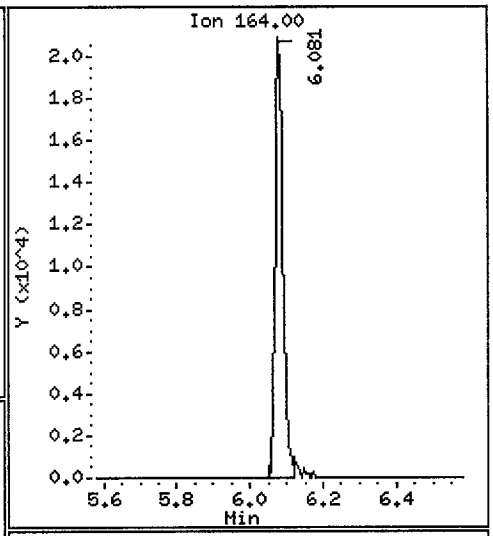
Concentration: 2251.8 ug/Kg

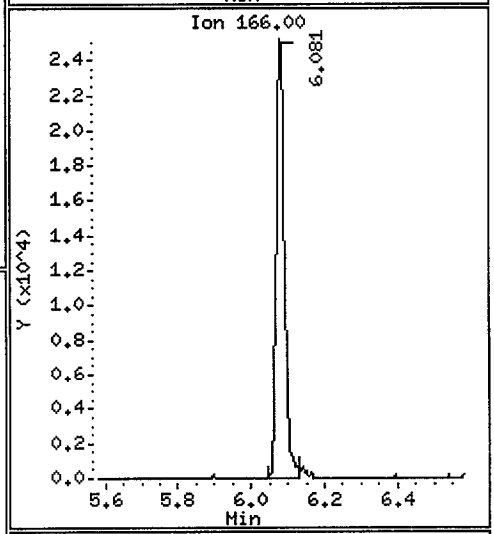


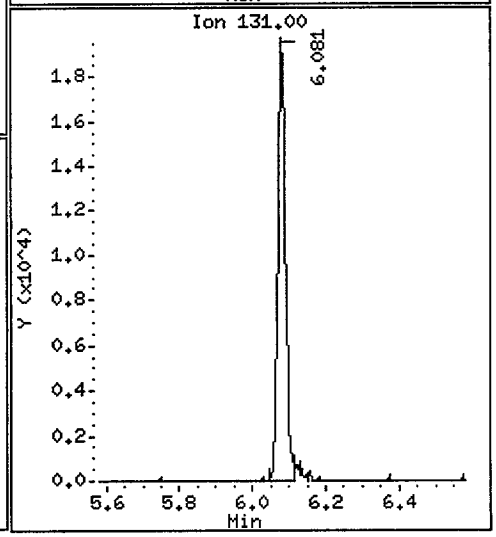












Data File: /chem/gcms/mk.i/K040406.b/h2hqr1aa.d

Date : 04-APR-2006 19:35

Client ID: G-2987-R2-SPENT ACT

Instrument: mk.i

Sample Info: H2HQR1AA,5,0,,

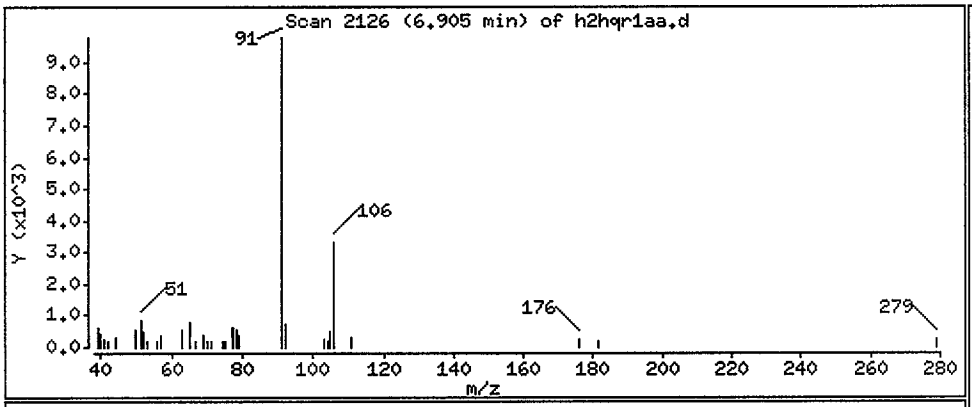
Operator: 063605

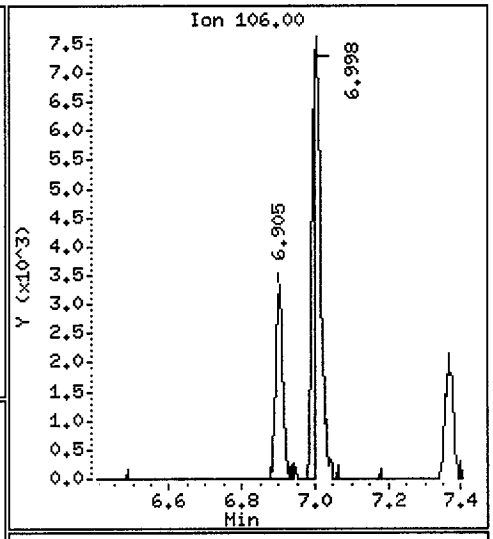
Column phase: J&W-624

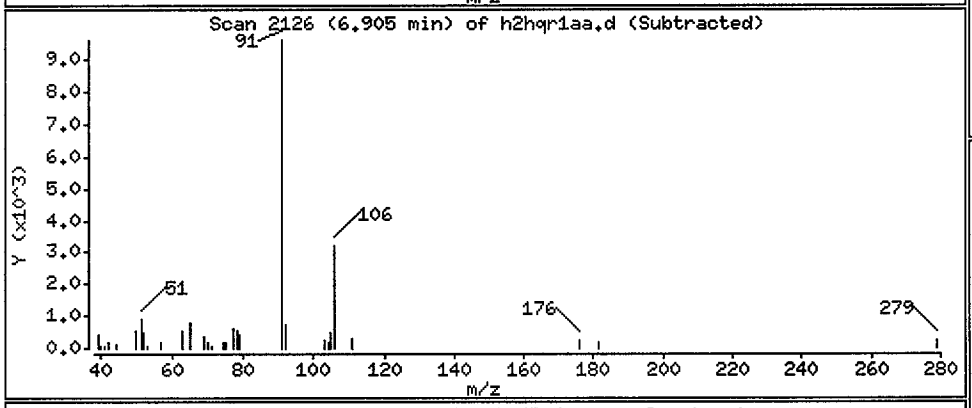
Column diameter: 0.18

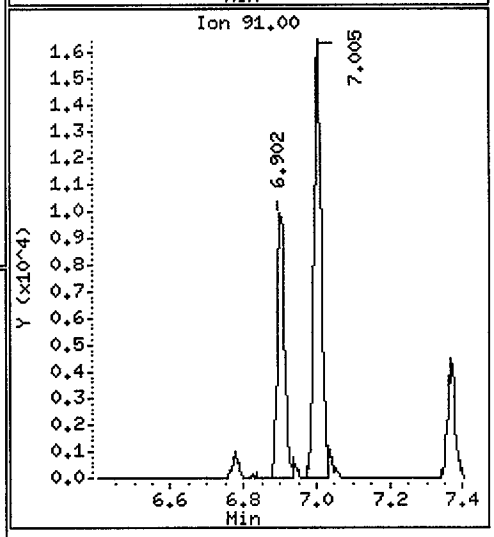
65 Ethylbenzene (ccc)

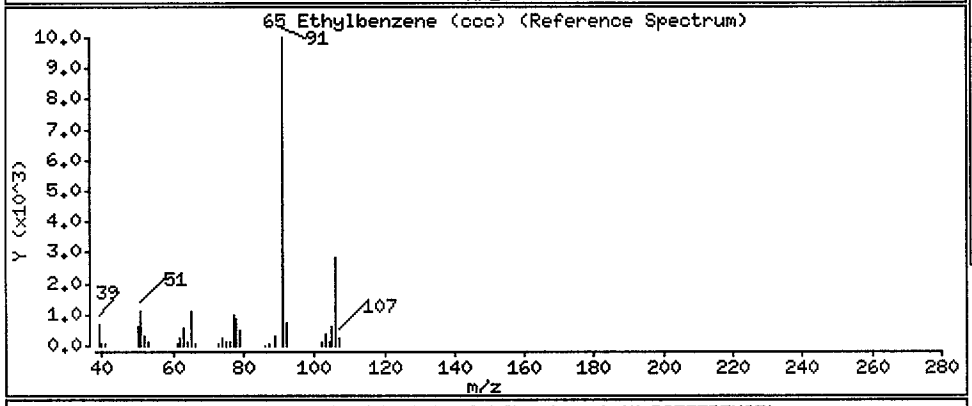
Concentration: 157.75 ug/Kg

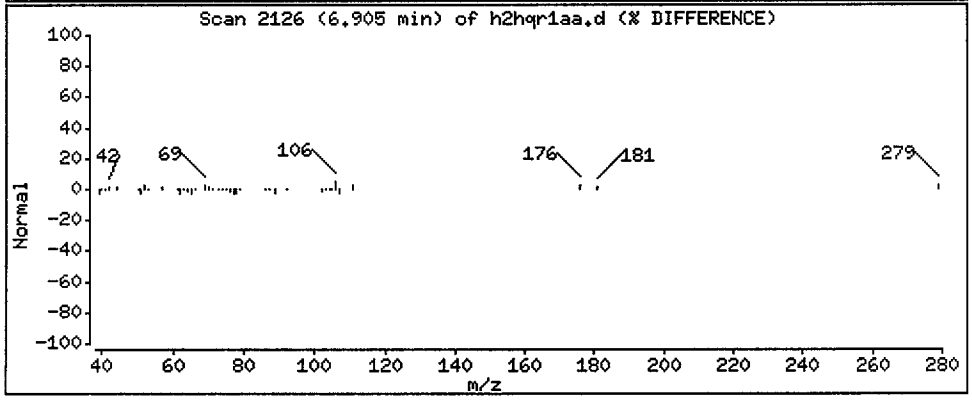












Data File: /chem/gcms/mk.i/K040406.b/h2hqr1aa.d

Date : 04-APR-2006 19:35

Client ID: G-2987-R2-SPENT ACT

Instrument: mk.i

Sample Info: H2HQR1AA,5,0,,

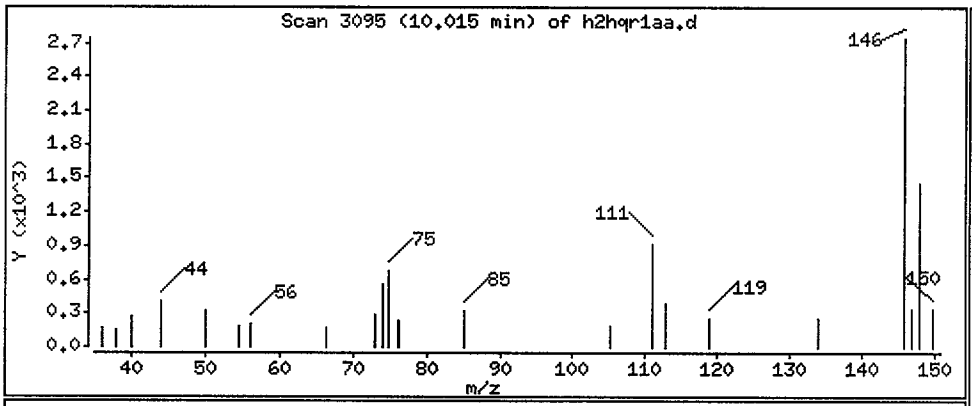
Operator: 063605

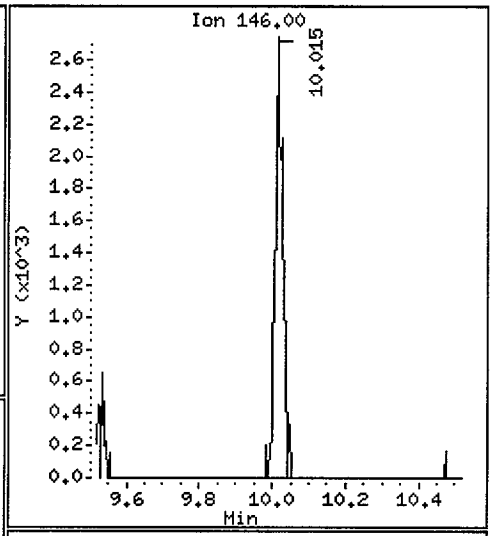
Column phase: J&W-624

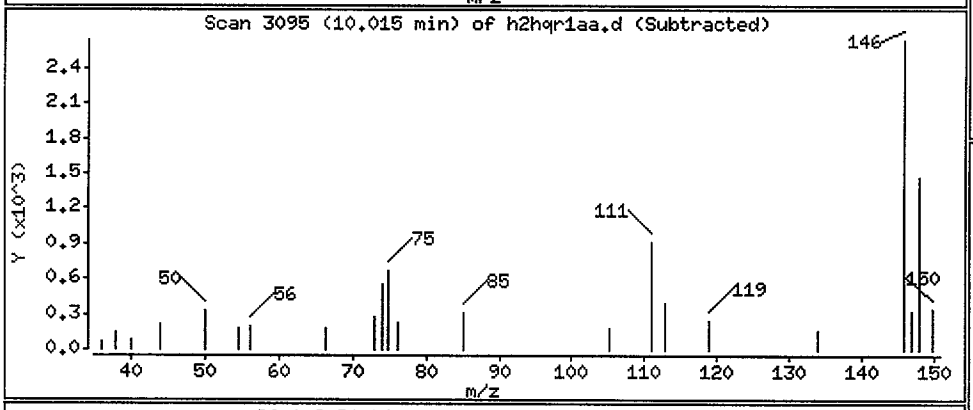
Column diameter: 0.18

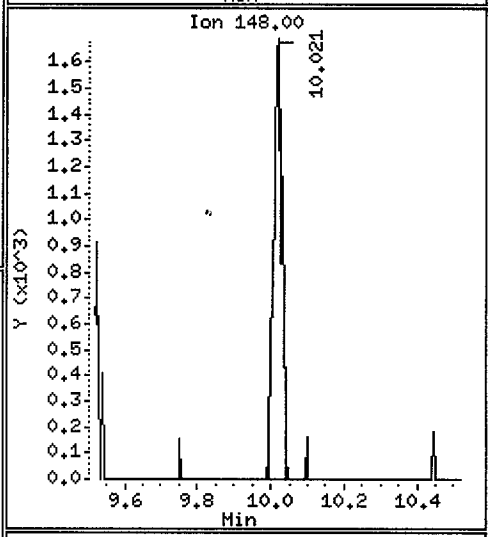
86 1,2-Dichlorobenzene

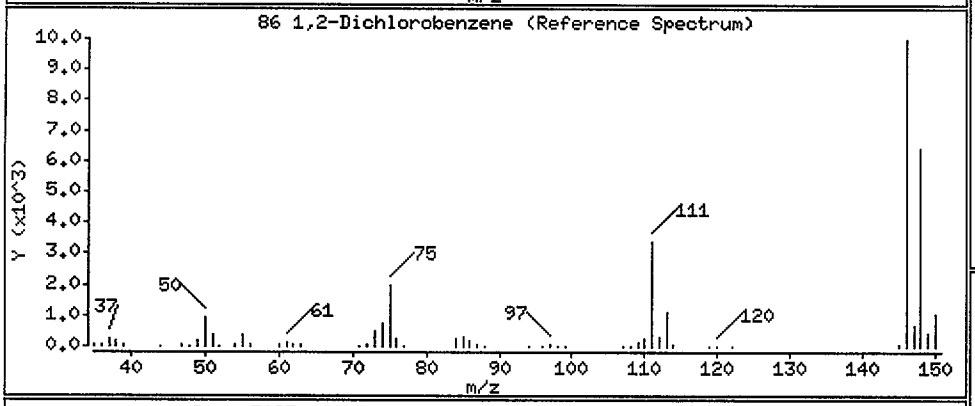
Concentration: 123.38 ug/Kg

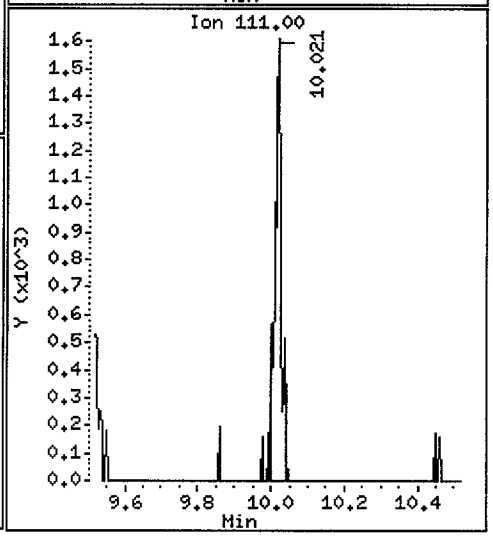


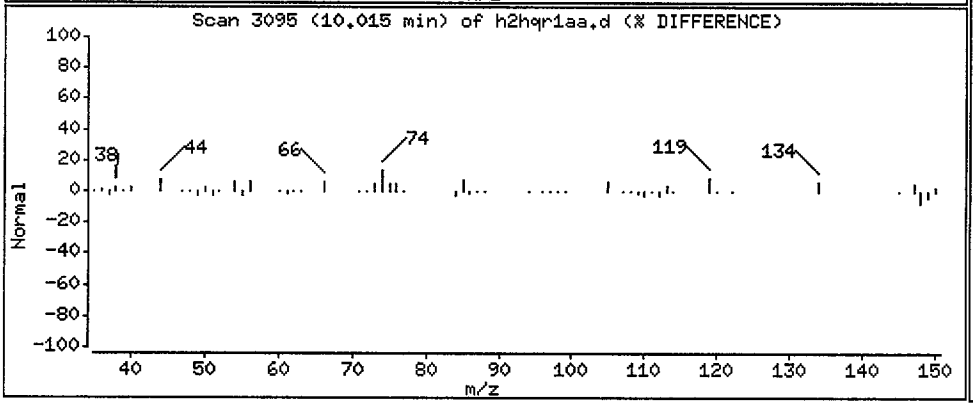












Data File: /var/chem/gcms/mk.i/K040406.b/h2hqr1aa.d
Report Date: 05-Apr-2006 20:21

STL Knoxville

Volatile Organics by GC/MS

Data file : /var/chem/gcms/mk.i/K040406.b/h2hqr1aa.d
Lab Smp Id: H2HQR1AA Client Smp ID: G-2987-R2-SPENT ACT
Inj Date : 04-APR-2006 19:35
Operator : 063605 Inst ID: mk.i
Smp Info : H2HQR1AA,5,0,,
Misc Info : K040406,MS8260NM,focus.sub
Comment : Volatile Organics by GC/MS
Method : /var/chem/gcms/mk.i/K040406.b/MS8260NM.m
Meth Date : 05-Apr-2006 20:20 tillerm Quant Type: ISTD
Cal Date : 03-FEB-2006 14:40 Cal File: fickb038.d
Als bottle: 1
Dil Factor: 5.00000
Integrator: HP RTE Compound Sublist: focus.sub
Target Version: 3.50

Concentration Formula: Amt * DF * (Vt*5)/(Ws*Va) * CpndVariable

Vt	5000.00000	Sample Volume Purged
Ws	5.07000	Weight of sample
Va	100.00000	Volume of Methanol Aliquot

Cpnd Variable Local Compound Variable

ISTD	RT	HEIGHT	AMOUNT
* 1 Fluorobenzene	4.287	1424081	50.000

		CONCENTRATIONS			QUANT		
RT	HEIGHT	ON-COL(ug/L)	FINAL(ug/Kg)	QUAL	LIBRARY	LIB ENTRY	CPND #
Carbon dioxide				CAS #: 124-38-9			
0.754	194973	6.84557269	1687.8	5	NIST05.l	80	1
Propene				CAS #: 115-07-1			
0.847	188507	6.61854909	1631.8	90	NIST05.l	56	1
Isobutane				CAS #: 75-28-5			
0.979	7125260	250.170461	61679	86	NIST05.l	230	1
Butane				CAS #: 106-97-8			
1.094	2221565	77.9999522	19231	80	NIST05.l	228	1

Data File: /var/chem/gcms/mk.i/K040406.b/h2hqr1aa.d
Report Date: 05-Apr-2006 20:21

RT	HEIGHT	CONCENTRATIONS ON-COL(ug/L)	CONCENTRATIONS FINAL(ug/Kg)	QUANT QUAL	QUANT LIBRARY	QUANT LIB ENTRY	CPND #
Pentane				CAS #: 109-66-0			
1.669	368582	12.9410476	3190.6	91	NIST05.l	695	1
Cyclopentane				CAS #: 287-92-3			
2.451	234066	8.21814209	2026.2	80	NIST05.l	541	1
Pentane, 3-methyl-				CAS #: 96-14-0			
2.606	249245	8.75108228	2157.6	90	NIST05.l	1794	1
Hexane				CAS #: 110-54-3			
2.824	223410	7.84400606	1933.9	91	NIST05.l	1791	1
Pentane, 2,4-dimethyl-				CAS #: 108-08-7			
3.244	150544	5.28565440	1303.2	83	NIST05.l	3903	1
Cyclopentane, methyl-				CAS #: 96-37-7			
3.311	679794	23.8678137	5884.6	94	NIST05.l	1468	1
Cyclohexane				CAS #: 110-82-7			
3.835	843396	29.6119392	7300.8	91	NIST05.l	1430	1
Butane, 2,2,3,3-tetramethyl-				CAS #: 594-82-1			
4.143	1136639	39.9078072	9839.2	83	NIST05.l	7474	1
Cyclohexane, methyl-				CAS #: 108-87-2			
4.743	450712	15.8246617	3901.5	95	NIST05.l	3271	1
Pentane, 2,3,4-trimethyl-				CAS #: 565-75-3			
5.083	234676	8.23955941	2031.4	91	NIST05.l	7459	1
Pentane, 2,3,3-trimethyl-				CAS #: 560-21-4			
5.179	325708	11.4357259	2819.4	90	NIST05.l	7454	1

Data File: /var/chem/gcms/mk.i/K040406.b/h2hqr1aa.d

Date : 04-APR-2006 19:35

Client ID: G-2987-R2-SPENT ACT

Instrument: mk.i

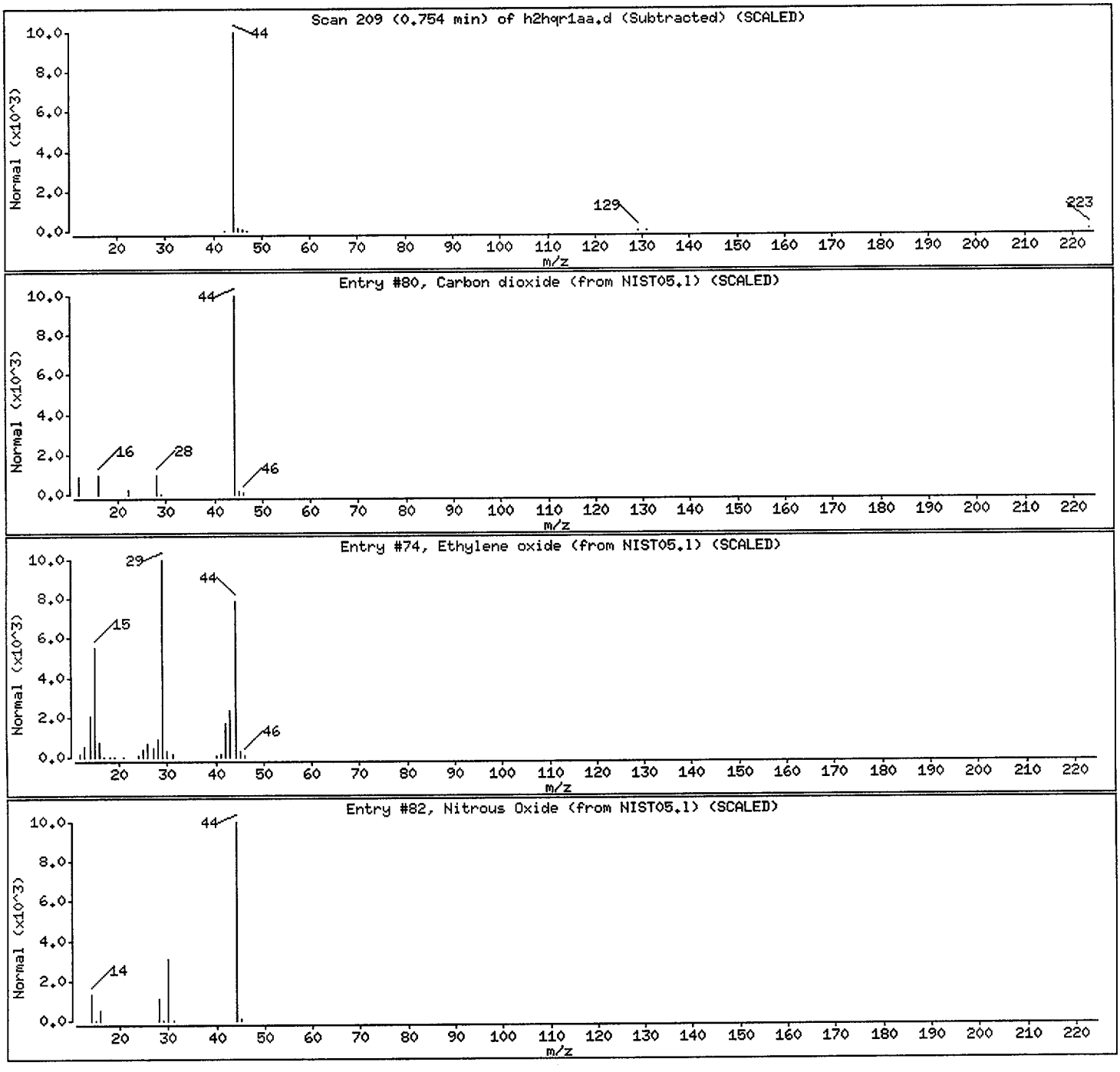
Sample Info: H2HQR1AA,5,0,,

Operator: 063605

Column phase: J&W-624

Column diameter: 0.18

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Carbon dioxide	124-38-9	NIST05.l	80	5	CO2	44
Ethylene oxide	75-21-8	NIST05.l	74	3	C2H4O	44
Nitrous Oxide	10024-97-2	NIST05.l	82	3	N2O	44



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Date : 04-APR-2006 19:35

Client ID: G-2987-R2-SPENT ACT

Instrument: mk.i

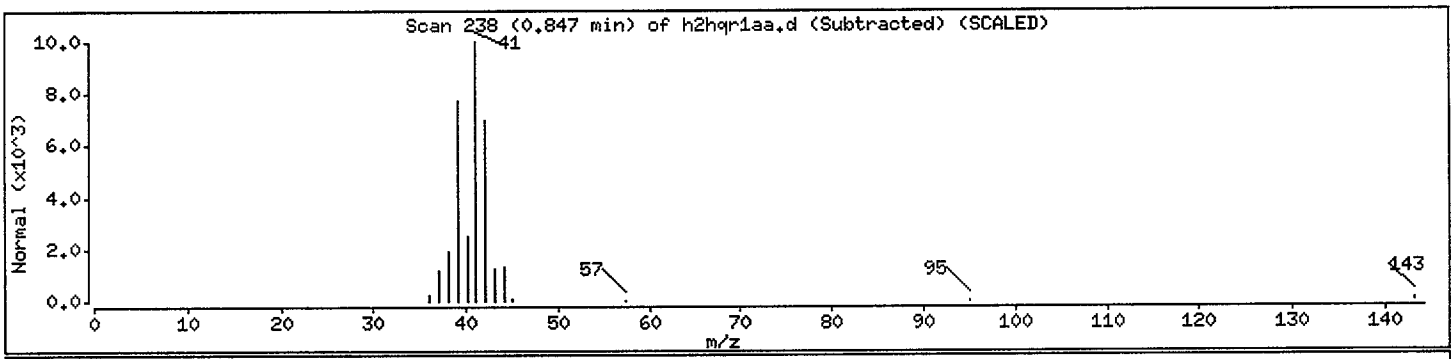
Sample Info: H2HQR1AA,5,0,,

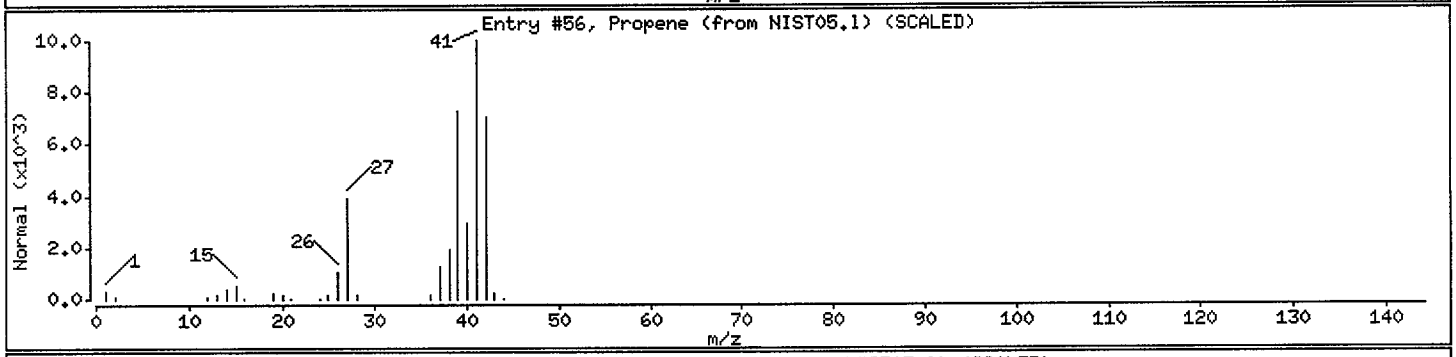
Operator: 063605

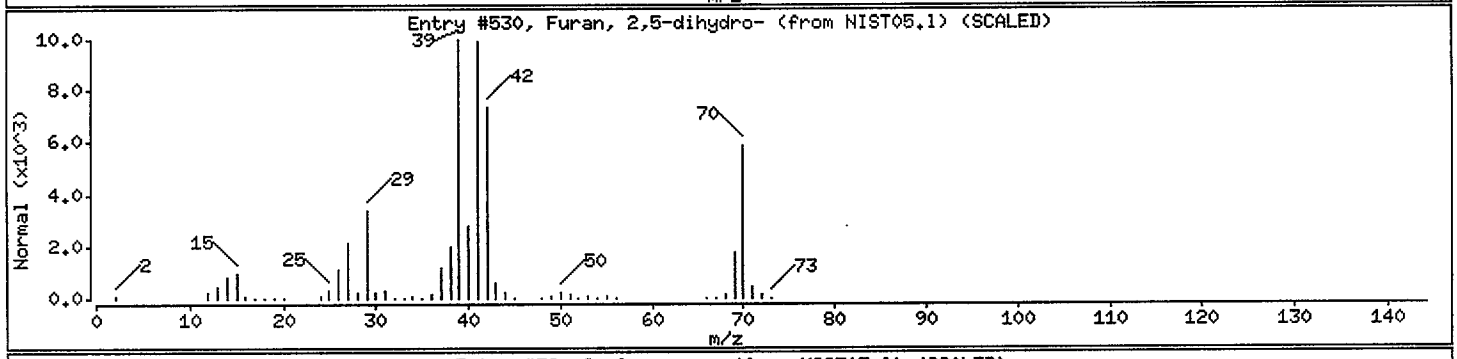
Column phase: J&W-624

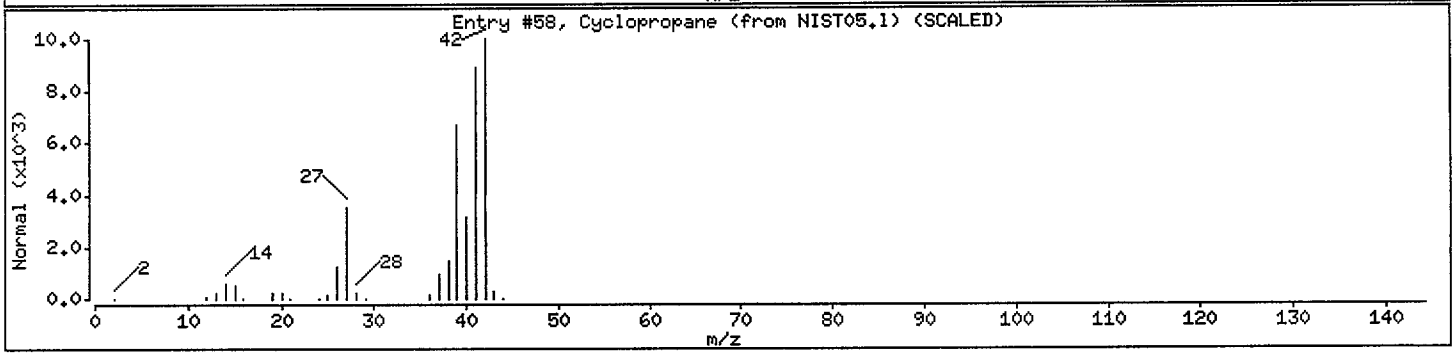
Column diameter: 0.18

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Propene	115-07-1	NIST05.l	56	90	C3H6	42
Furan, 2,5-dihydro-	1708-29-8	NIST05.l	530	83	C4H6O	70
Cyclopropane	75-19-4	NIST05.l	58	83	C3H6	42









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Date : 04-APR-2006 19:35

Client ID: G-2987-R2-SPENT ACT

Instrument: mk.i

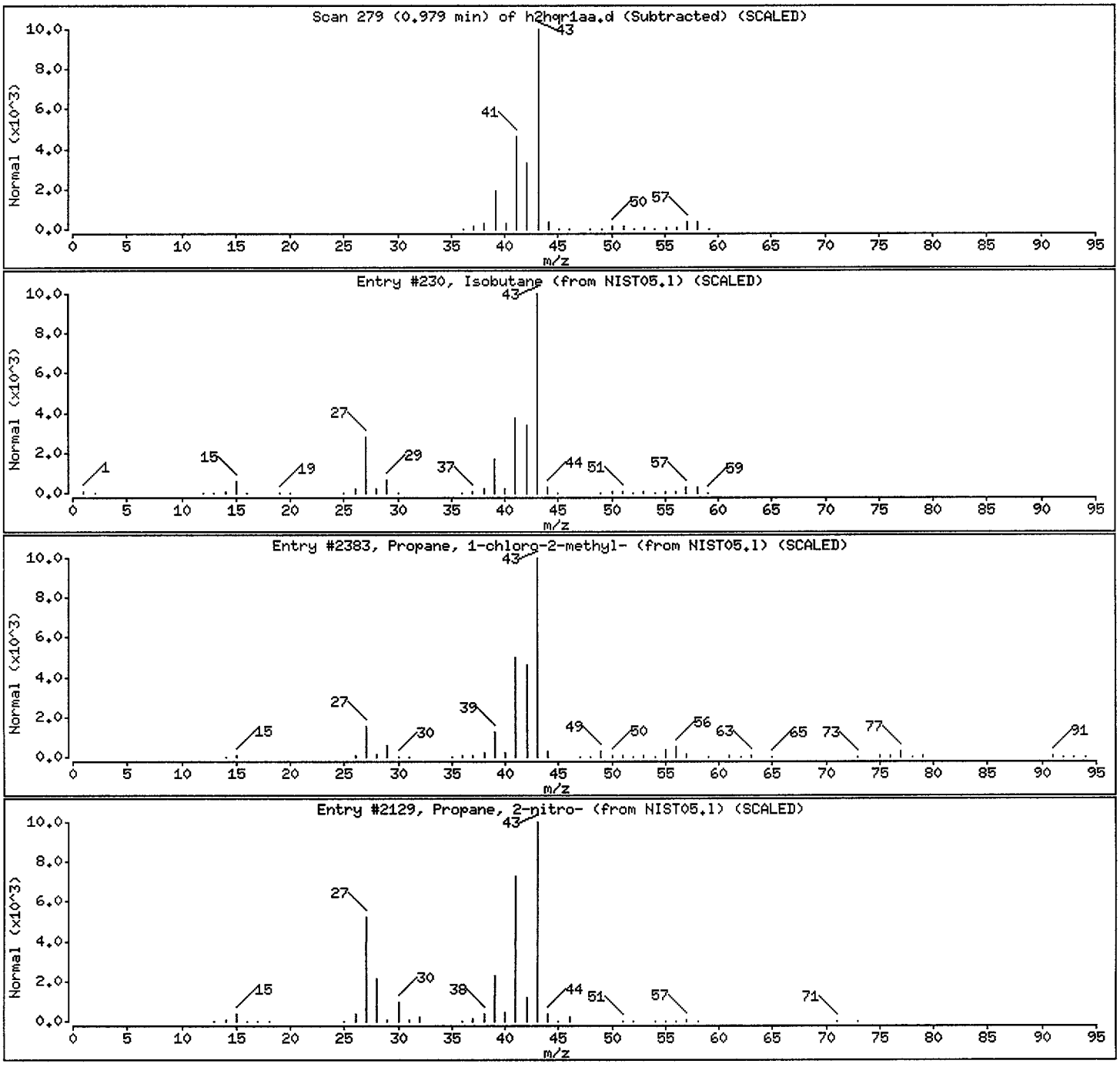
Sample Info: H2HQR1AA,5,0,,

Operator: 063605

Column phase: J&W-624

Column diameter: 0.18

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Isobutane	75-28-5	NIST05.l	230	86	C4H10	58
Propane, 1-chloro-2-methyl-	513-36-0	NIST05.l	2383	4	C4H9Cl	92
Propane, 2-nitro-	79-46-9	NIST05.l	2129	4	C3H7NO2	89



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Date : 04-APR-2006 19:35

Client ID: G-2987-R2-SPENT ACT

Instrument: mk.i

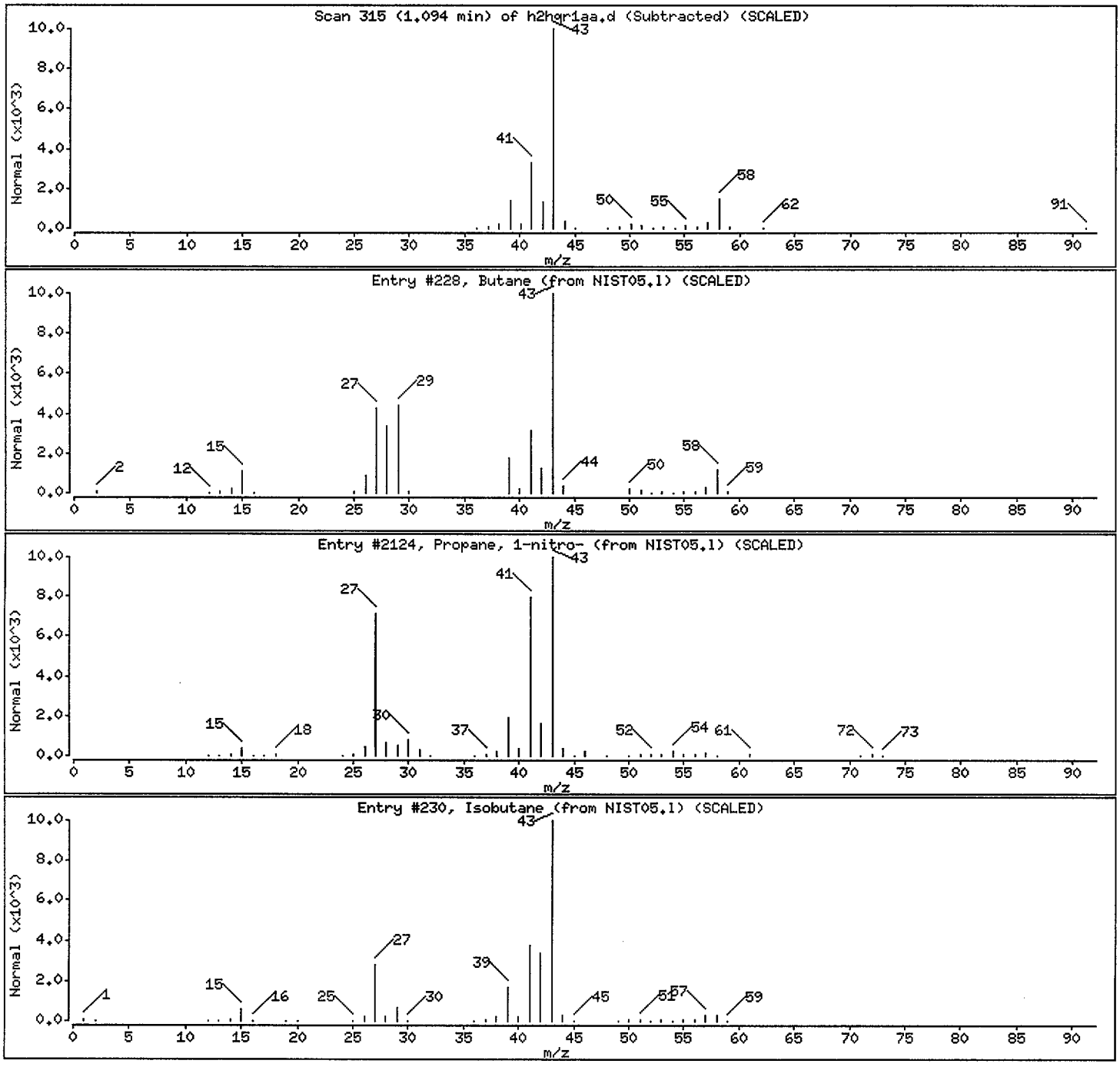
Sample Info: H2HQR1AA,5,0,,

Operator: 063605

Column phase: J&W-624

Column diameter: 0.18

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Butane	106-97-8	NIST05.1	228	80	C4H10	58
Propane, 1-nitro-	108-03-2	NIST05.1	2124	9	C3H7NO2	89
Isobutane	75-28-5	NIST05.1	230	9	C4H10	58



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Date : 04-APR-2006 19:35

Client ID: G-2987-R2-SPENT ACT

Instrument: mk.i

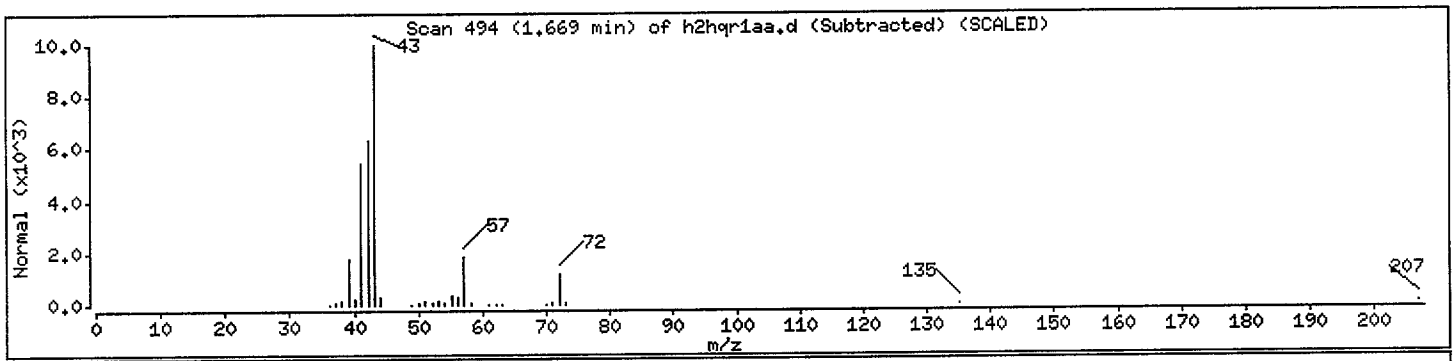
Sample Info: H2HQR1AA,5,0,,

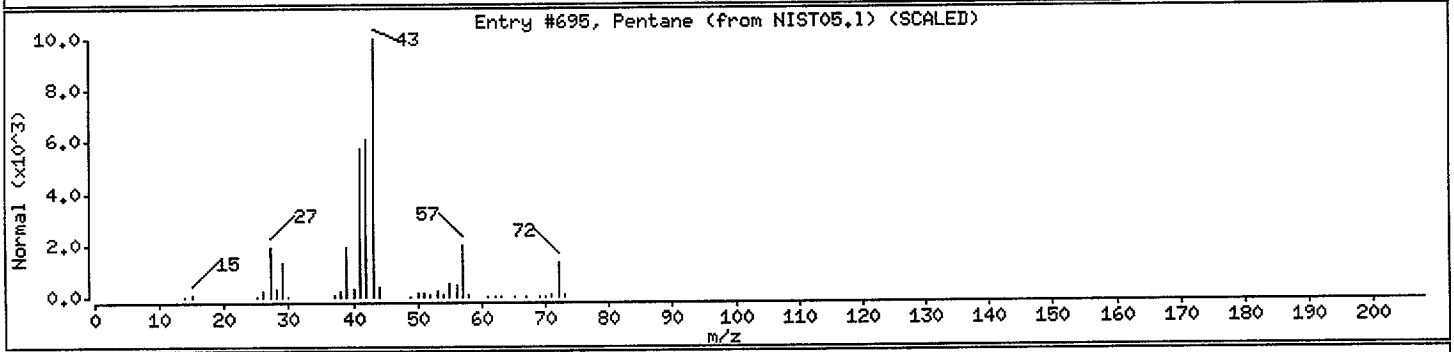
Operator: 063605

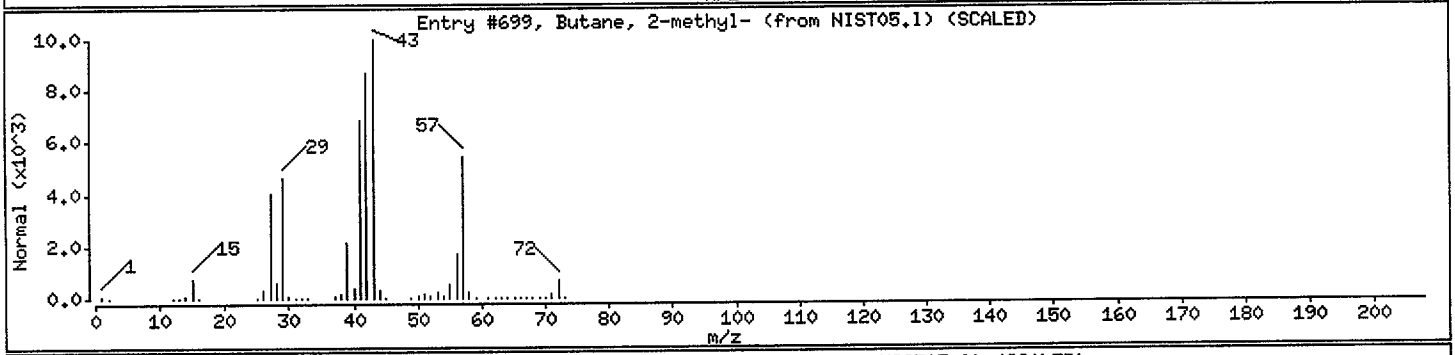
Column phase: J&W-624

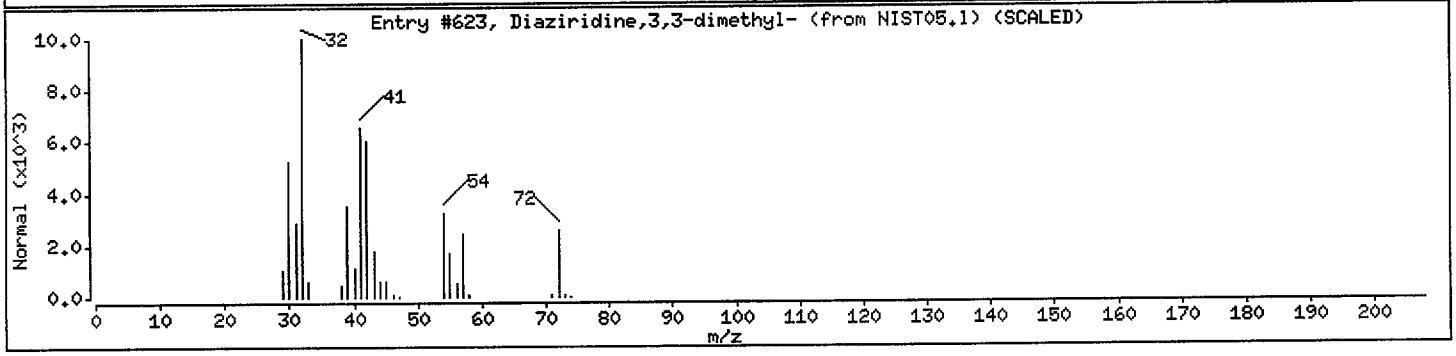
Column diameter: 0.18

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Pentane	109-66-0	NIST05.l	695	91	C5H12	72
Butane, 2-methyl-	78-78-4	NIST05.l	699	38	C5H12	72
Diaziridine,3,3-dimethyl-	4901-76-2	NIST05.l	623	25	C3H8N2	72









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Date : 04-APR-2006 19:35

Client ID: G-2987-R2-SPENT ACT

Instrument: mk.i

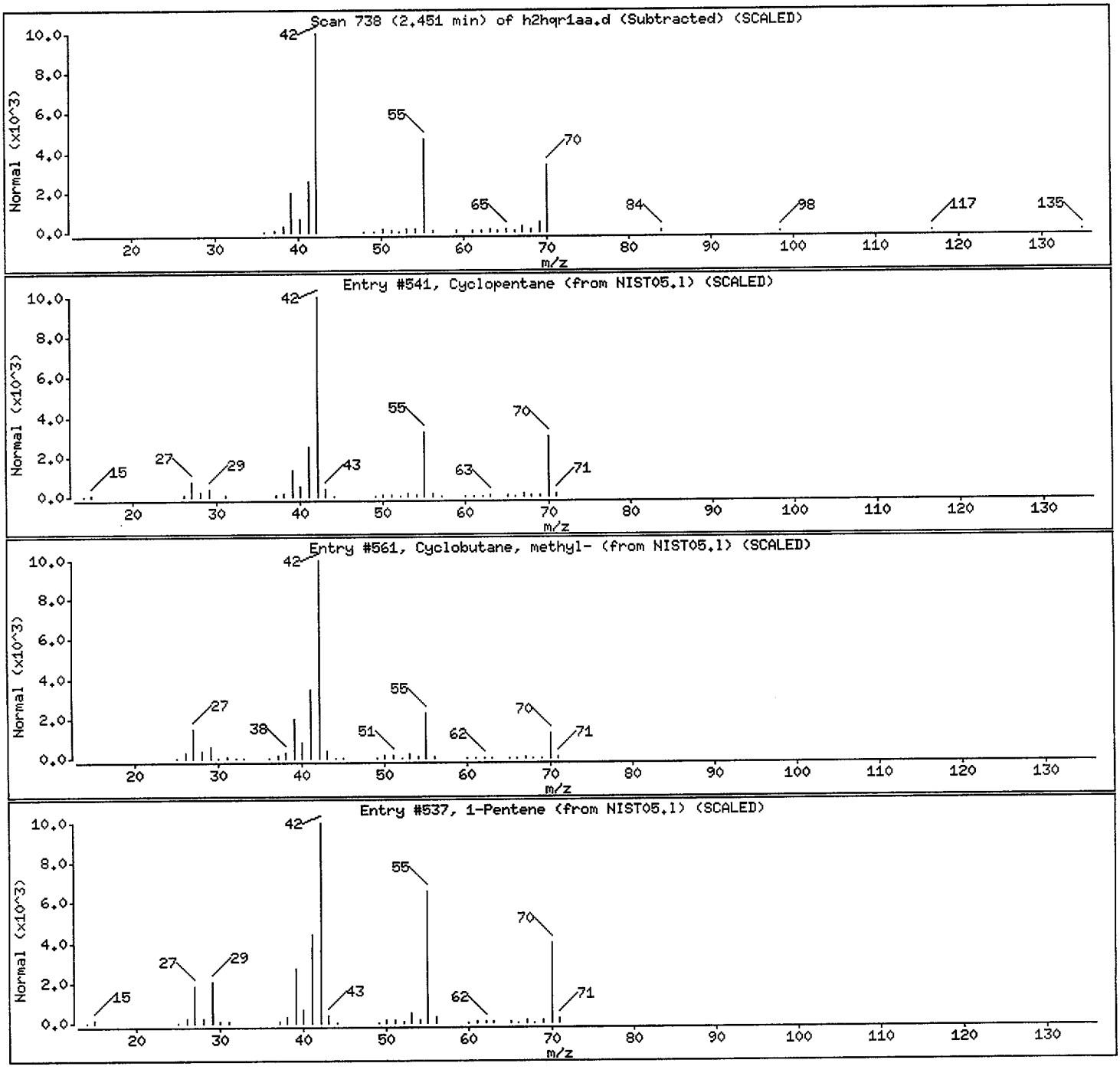
Sample Info: H2HQR1AA,5,0,,

Operator: 063605

Column phase: J&W-624

Column diameter: 0.18

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Cyclopentane	287-92-3	NIST05.1	541	80	C5H10	70
Cyclobutane, methyl-	598-61-8	NIST05.1	561	72	C5H10	70
1-Pentene	109-67-1	NIST05.1	537	43	C5H10	70



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Date : 04-APR-2006 19:35

Client ID: G-2987-R2-SPENT ACT

Instrument: mk.i

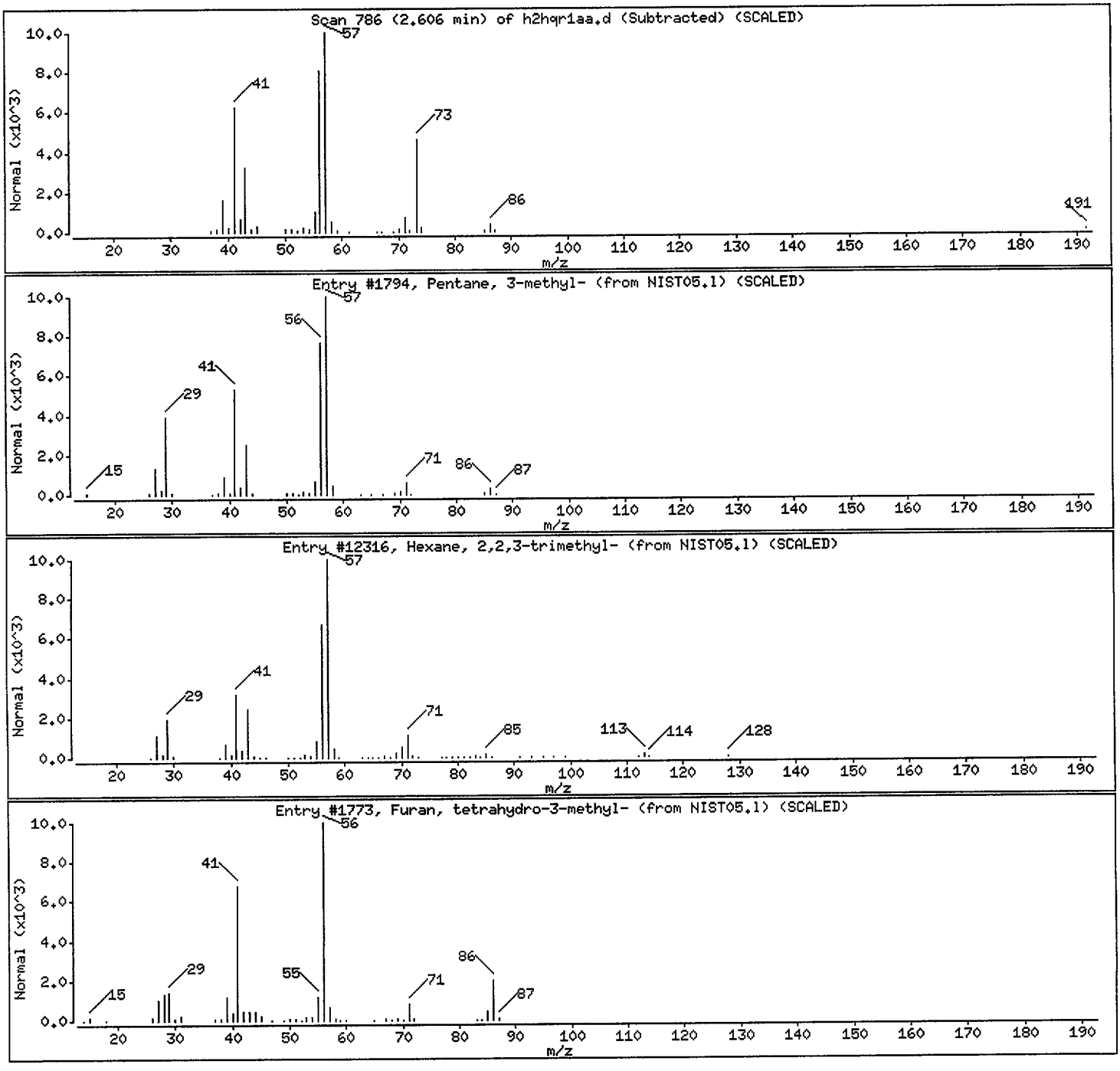
Sample Info: H2HQR1AA,5,0,,

Operator: 063605

Column phase: J&W-624

Column diameter: 0.18

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Pentane, 3-methyl-	96-14-0	NIST05.l	1794	90	C6H14	86
Hexane, 2,2,3-trimethyl-	16747-25-4	NIST05.l	12316	72	C9H20	128
Furan, tetrahydro-3-methyl-	13423-15-9	NIST05.l	1773	59	C5H10O	86



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Date : 04-APR-2006 19:35

Client ID: G-2987-R2-SPENT ACT

Instrument: mk.i

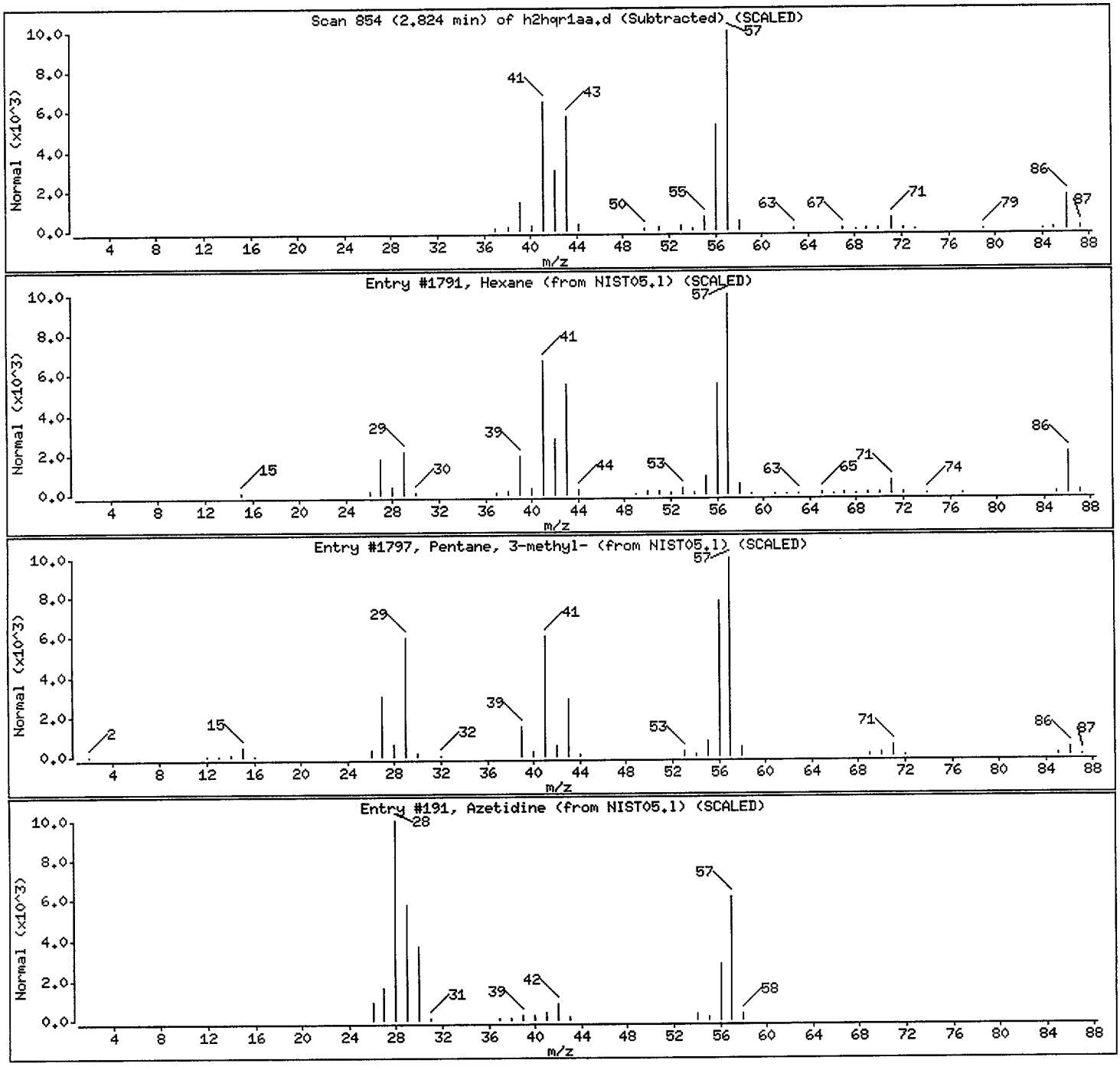
Sample Info: H2HQR1AA,5,0,,

Operator: 063605

Column phase: J&W-624

Column diameter: 0.18

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Hexane	110-54-3	NIST05.l	1791	91	C6H14	86
Pentane, 3-methyl-	96-14-0	NIST05.l	1797	45	C6H14	86
Azetidine	503-29-7	NIST05.l	191	40	C3H7N	57



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Date : 04-APR-2006 19:35

Client ID: G-2987-R2-SPENT ACT

Instrument: mk.i

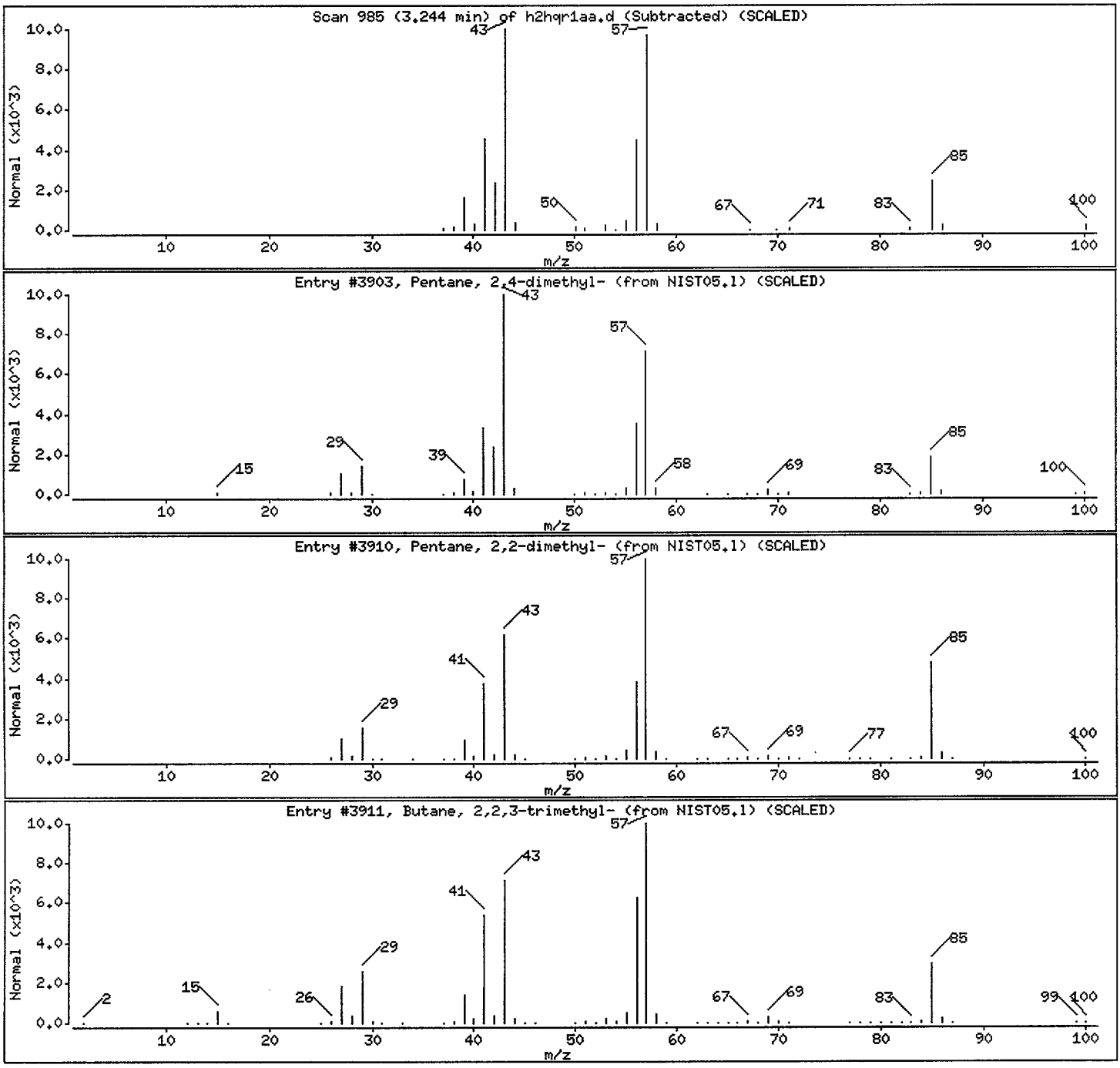
Sample Info: H2HQR1AA,5,0,,

Operator: 063605

Column phase: J&W-624

Column diameter: 0.18

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Pentane, 2,4-dimethyl-	108-08-7	NIST05.l	3903	83	C7H16	100
Pentane, 2,2-dimethyl-	590-35-2	NIST05.l	3910	72	C7H16	100
Butane, 2,2,3-trimethyl-	464-06-2	NIST05.l	3911	50	C7H16	100



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Date : 04-APR-2006 19:35

Client ID: G-2987-R2-SPENT ACT

Instrument: mk.i

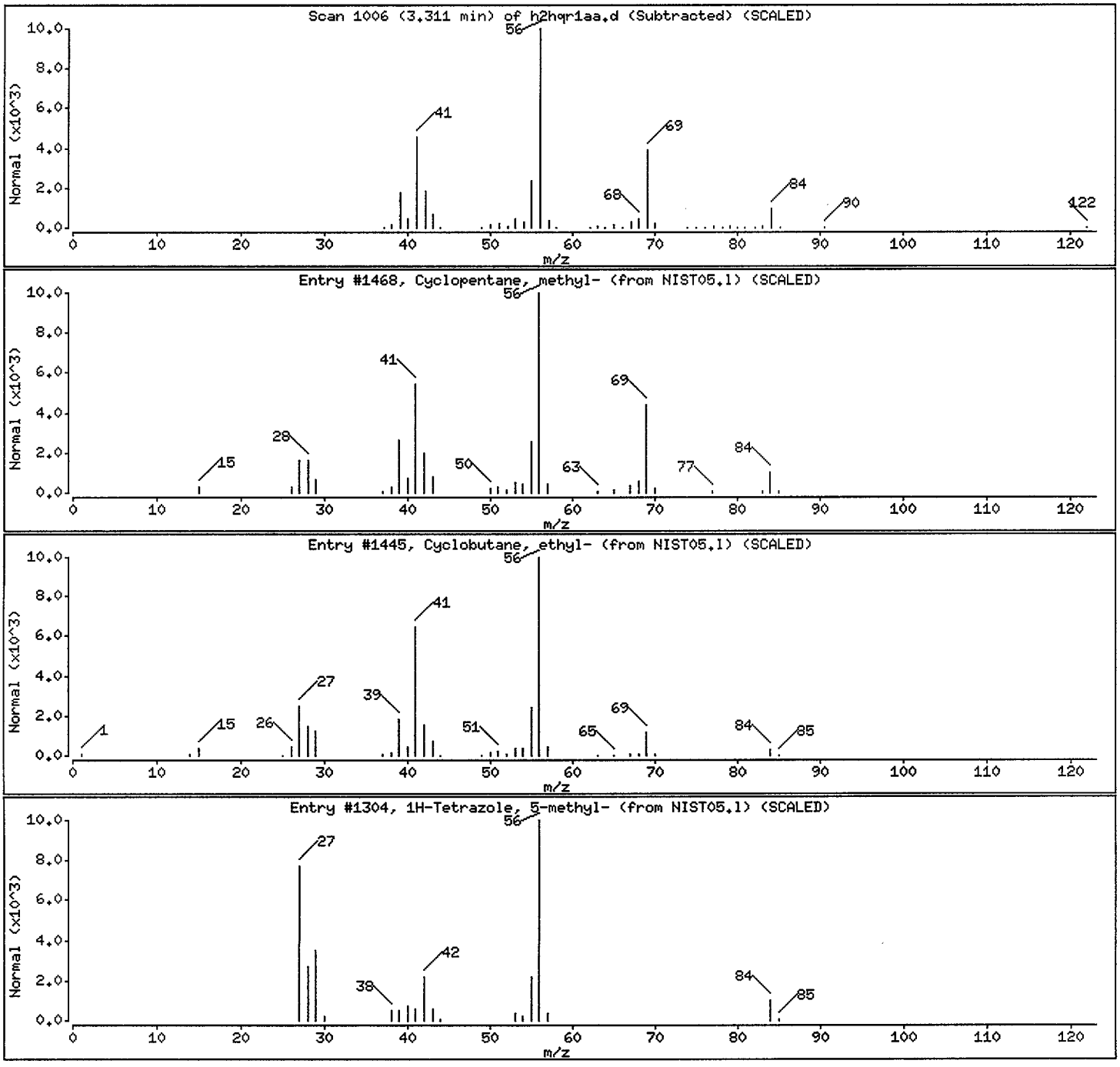
Sample Info: H2HQR1AA,5,0,,

Operator: 063605

Column phase: J&W-624

Column diameter: 0.18

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Cyclopentane, methyl-	96-37-7	NIST05.l	1468	94	C6H12	84
Cyclobutane, ethyl-	4806-61-5	NIST05.l	1445	78	C6H12	84
1H-Tetrazole, 5-methyl-	4076-36-2	NIST05.l	1304	72	C2H4N4	84



Data File: /var/chem/gcms/mk.i/K040406.b/h2hqr1aa.d

Date : 04-APR-2006 19:35

Client ID: G-2987-R2-SPENT ACT

Instrument: mk.i

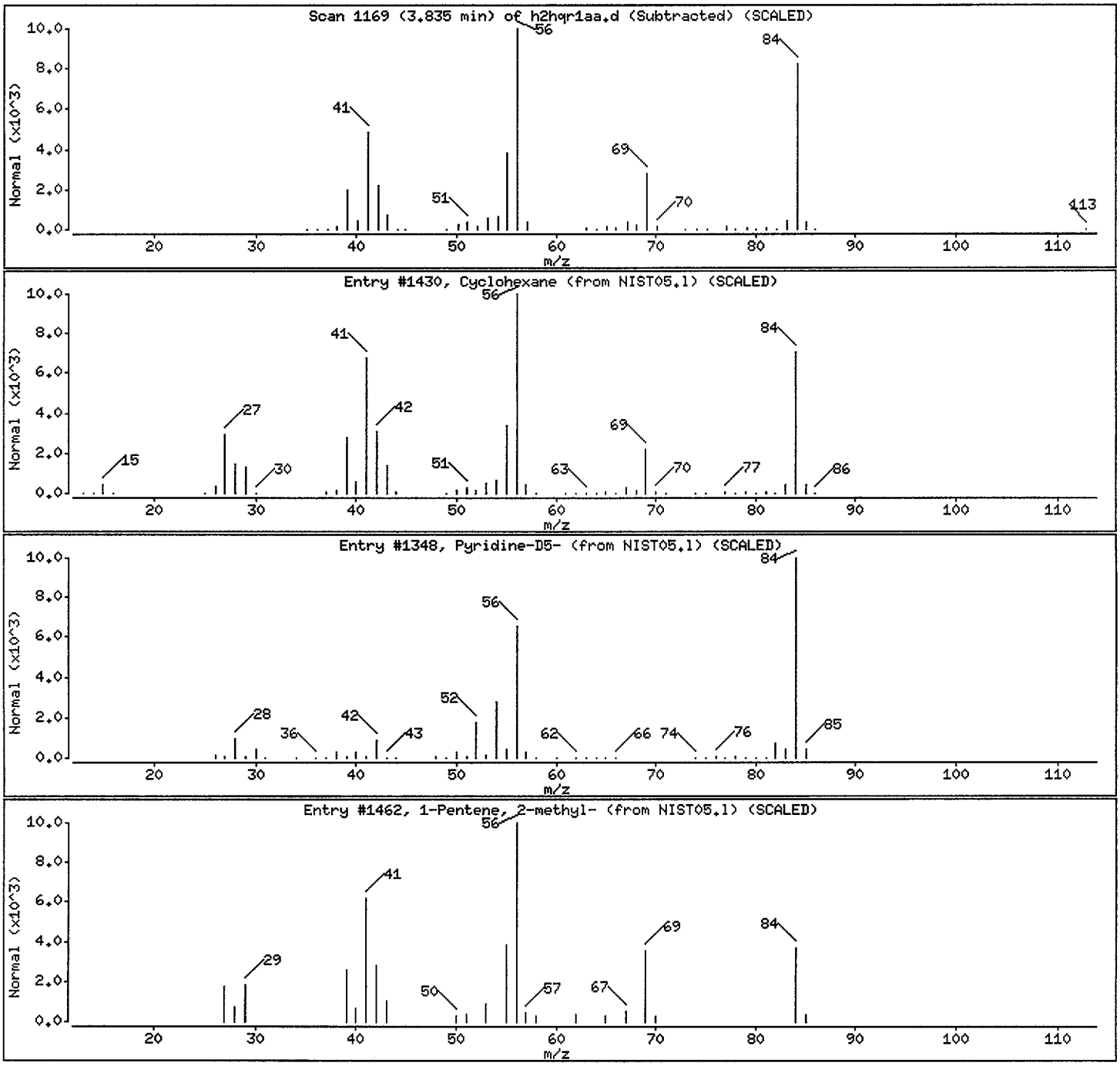
Sample Info: H2HQR1AA,5,0,,

Operator: 063605

Column phase: J&W-624

Column diameter: 0.18

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Cyclohexane	110-82-7	NIST05.l	1430	91	C6H12	84
Pyridine-D5-	7291-22-7	NIST05.l	1348	72	C5D5N	84
1-Pentene, 2-methyl-	763-29-1	NIST05.l	1462	72	C6H12	84



Data File: /var/chem/gcms/mk.i/K040406.b/h2hqr1aa.d

Date : 04-APR-2006 19:35

Client ID: G-2987-R2-SPENT ACT

Instrument: mk.i

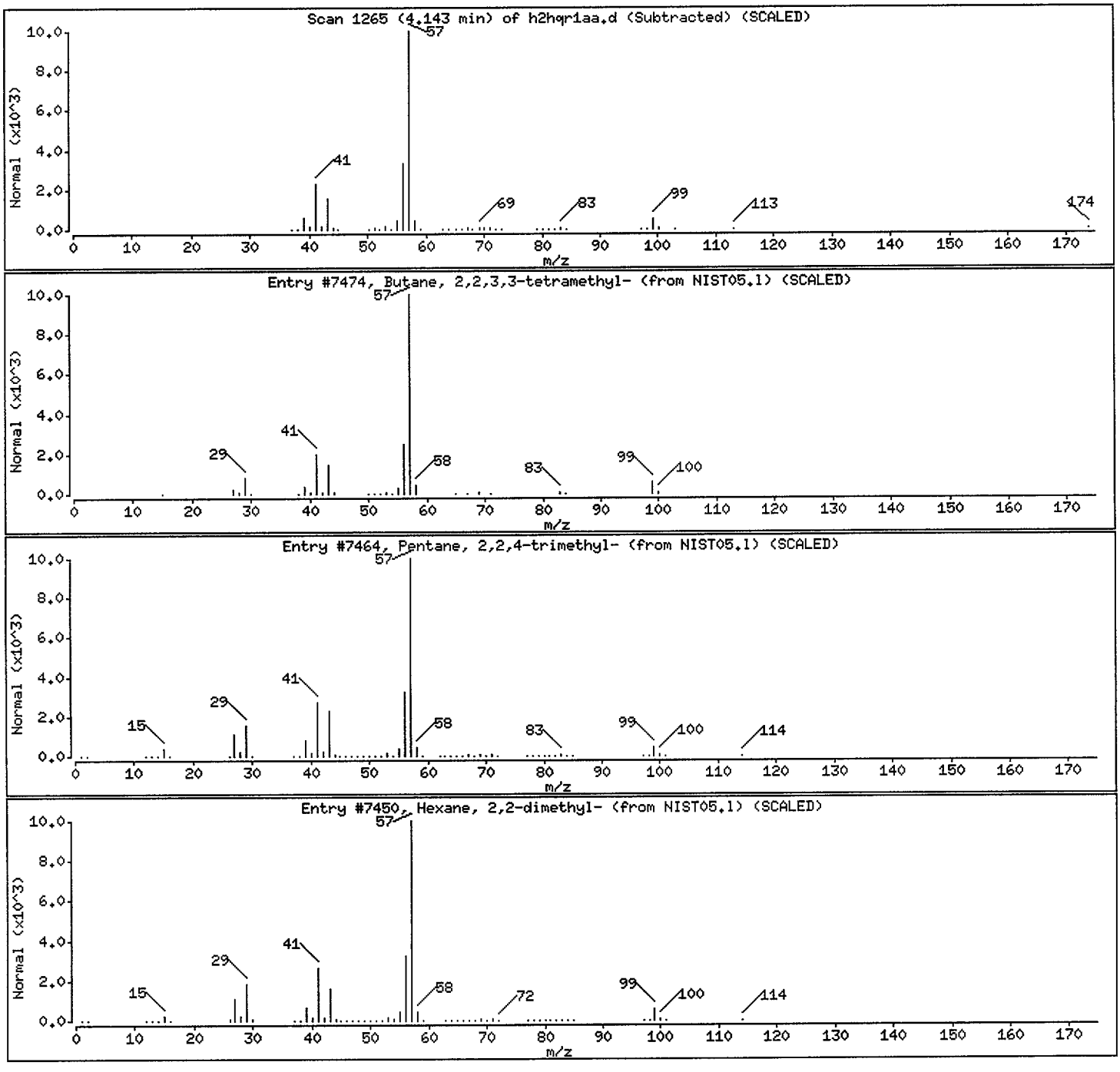
Sample Info: H2HQR1AA,5,0,,

Operator: 063605

Column phase: J&W-624

Column diameter: 0.18

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Butane, 2,2,3,3-tetramethyl-	594-82-1	NIST05.l	7474	83	C8H18	114
Pentane, 2,2,4-trimethyl-	540-84-1	NIST05.l	7464	83	C8H18	114
Hexane, 2,2-dimethyl-	590-73-8	NIST05.l	7450	83	C8H18	114



Data File: /var/chem/gcms/mk.i/K040406.b/h2hqr1aa.d

Date : 04-APR-2006 19:35

Client ID: G-2987-R2-SPENT ACT

Instrument: mk.i

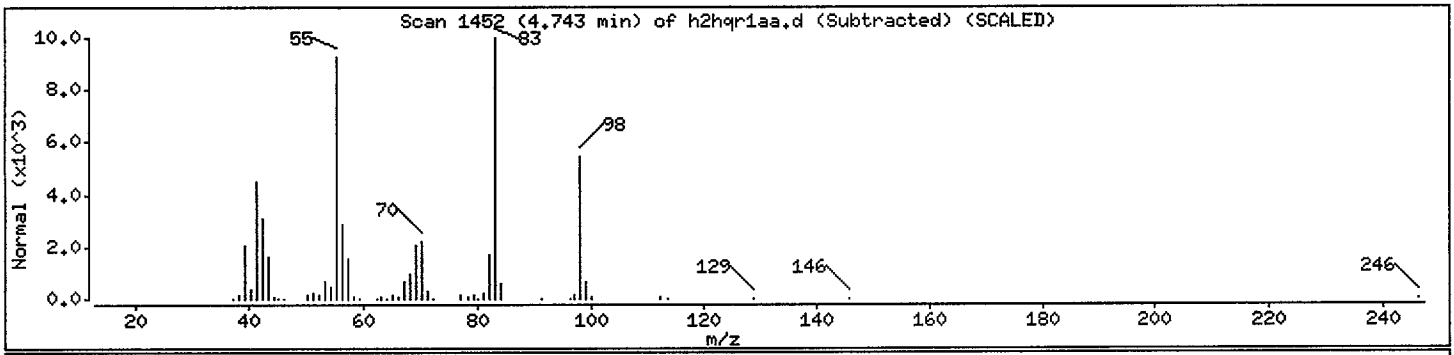
Sample Info: H2HQR1AA,5,0,,

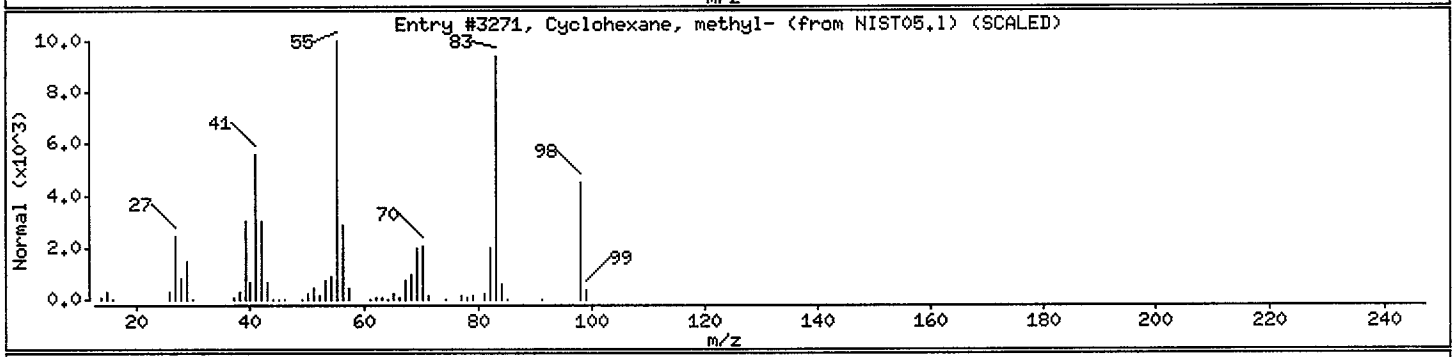
Operator: 063605

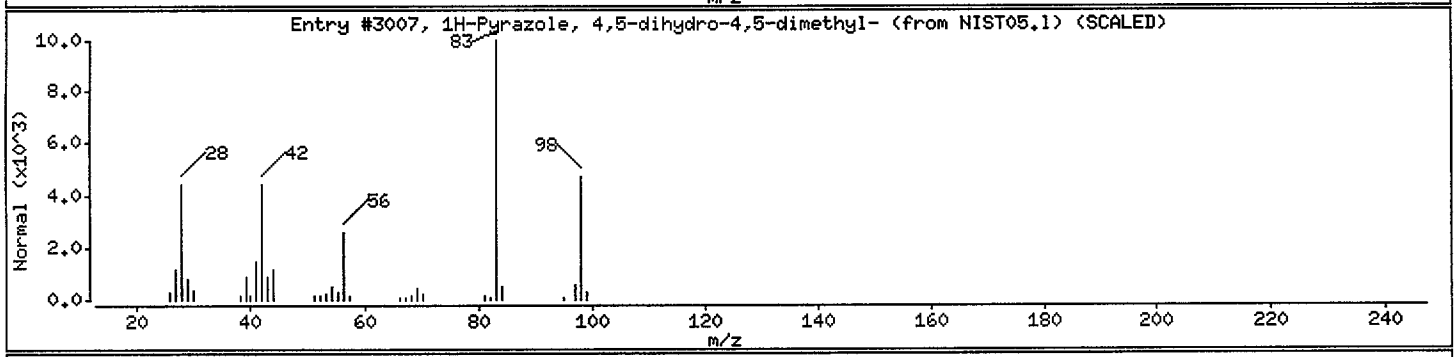
Column phase: J&W-624

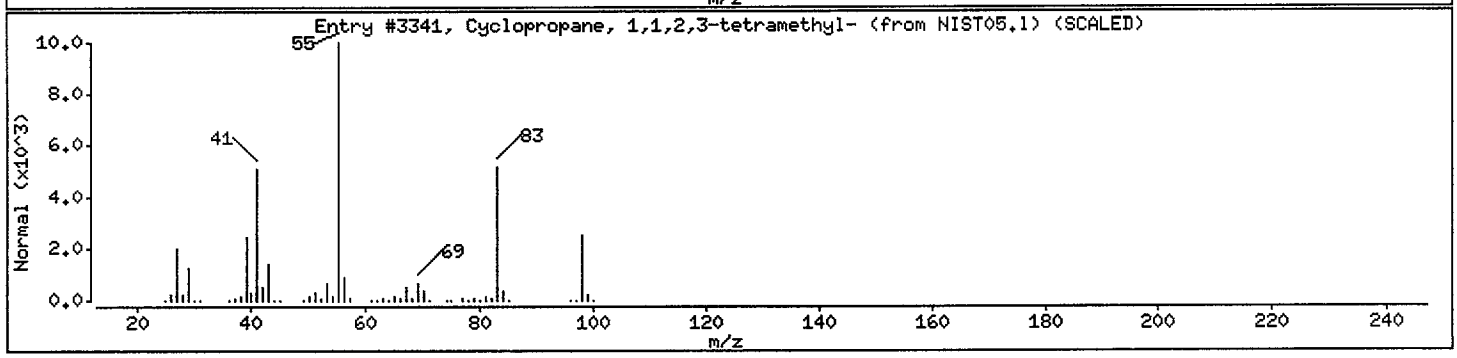
Column diameter: 0.18

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Cyclohexane, methyl-	108-87-2	NIST05.l	3271	95	C7H14	98
1H-Pyrazole, 4,5-dihydro-4,5-dimethyl-	28019-94-5	NIST05.l	3007	59	C5H10N2	98
Cyclopropane, 1,1,2,3-tetramethyl-	74752-93-5	NIST05.l	3341	53	C7H14	98









Data File: /var/chem/gcms/mk.i/K040406.b/h2hqr1aa.d

Date : 04-APR-2006 19:35

Client ID: G-2987-R2-SPENT ACT

Instrument: mk.i

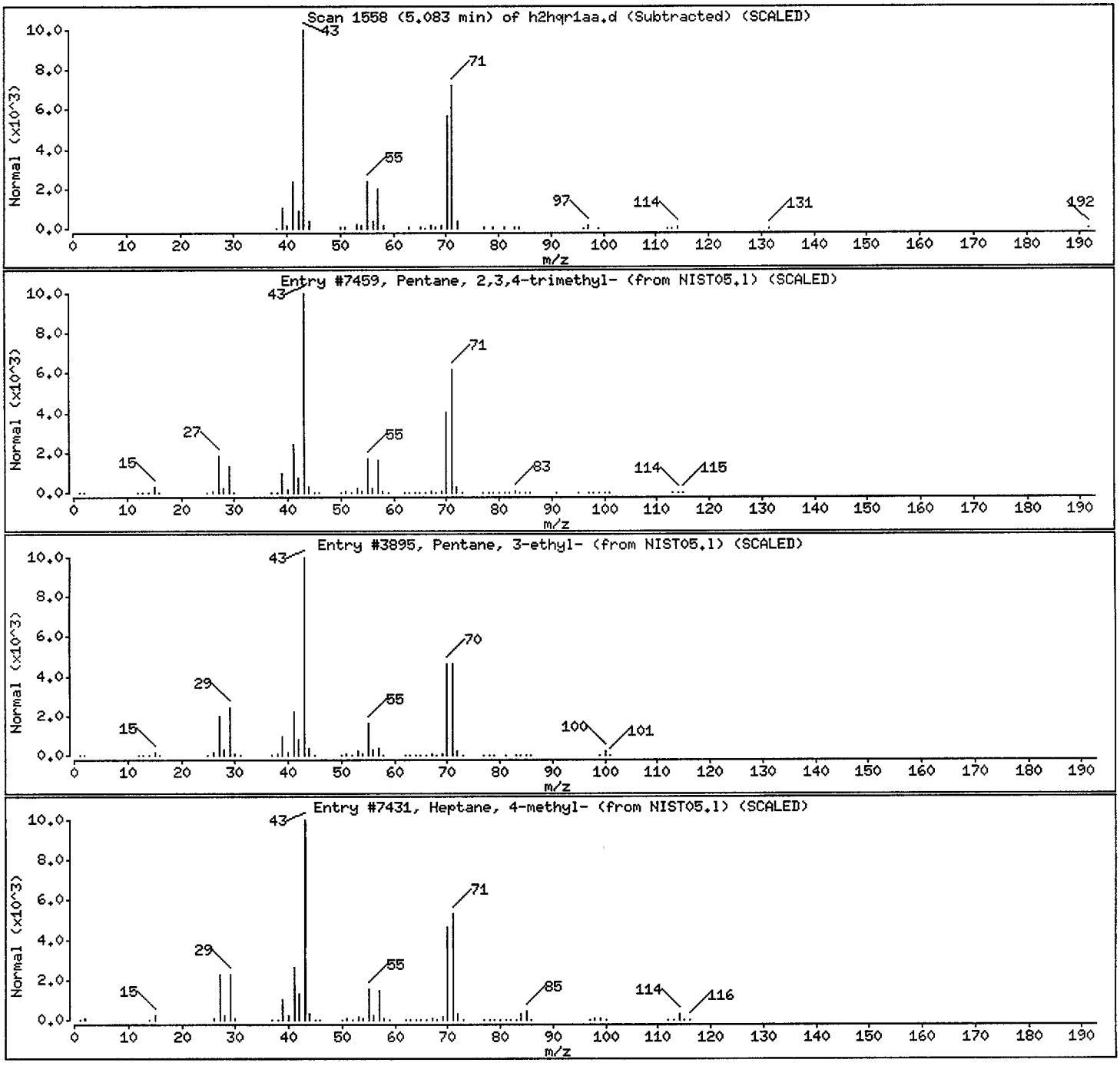
Sample Info: H2HQR1AA,5,0,,

Operator: 063605

Column phase: J&W-624

Column diameter: 0.18

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Pentane, 2,3,4-trimethyl-	565-75-3	NIST05.l	7459	91	C8H18	114
Pentane, 3-ethyl-	617-78-7	NIST05.l	3895	83	C7H16	100
Heptane, 4-methyl-	589-53-7	NIST05.l	7431	78	C8H18	114



Data File: /var/chem/gcms/mk.i/K040406.b/h2hqr1aa.d

Date : 04-APR-2006 19:35

Client ID: G-2987-R2-SPENT ACT

Instrument: mk.i

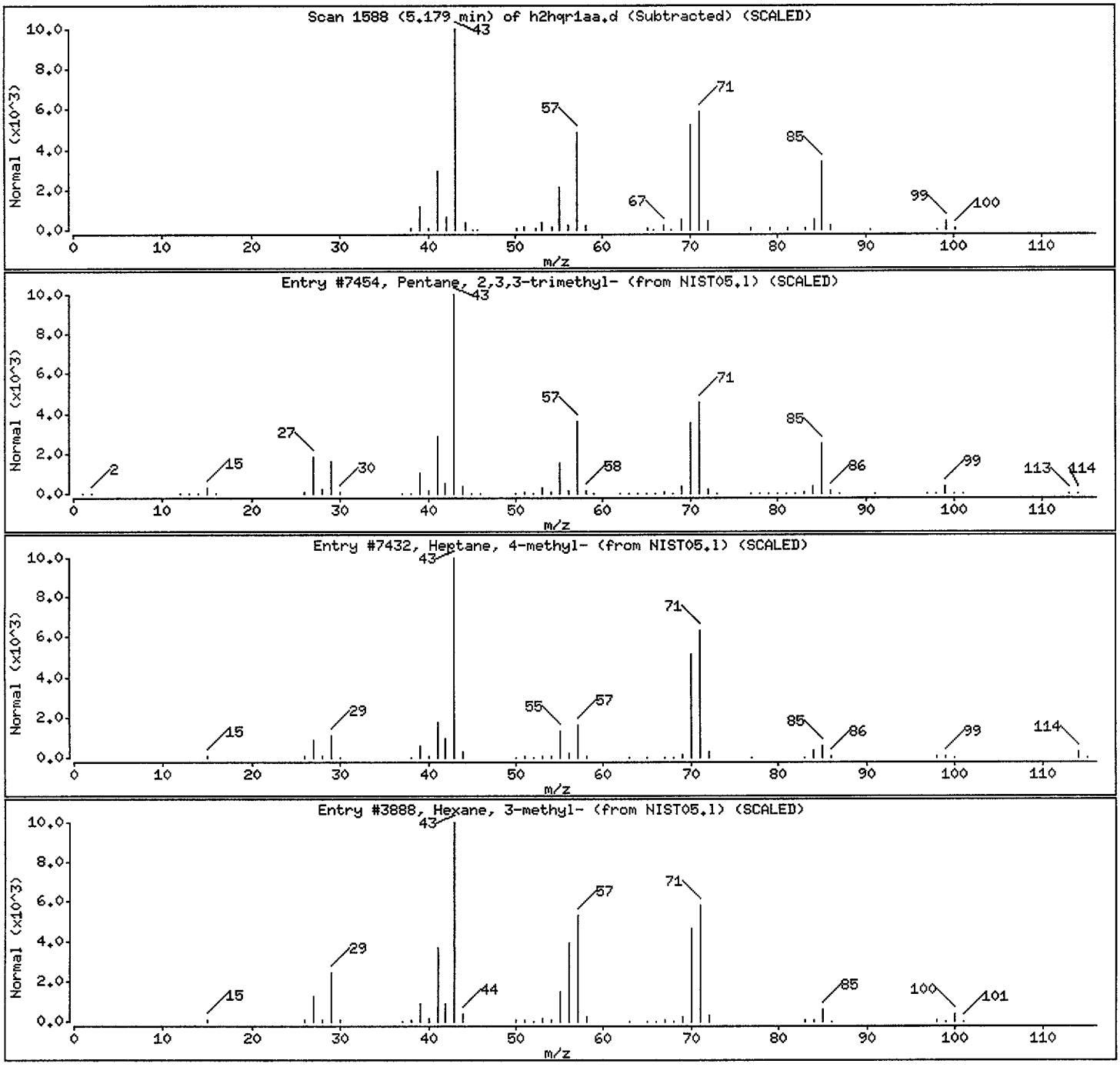
Sample Info: H2HQR1AA,5,0,,

Operator: 063605

Column phase: J&W-624

Column diameter: 0.18

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Pentane, 2,3,3-trimethyl-	560-21-4	NIST05.l	7454	90	C8H18	114
Heptane, 4-methyl-	589-53-7	NIST05.l	7432	64	C8H18	114
Hexane, 3-methyl-	589-34-4	NIST05.l	3888	64	C7H16	100



STL Knoxville - ACS

Client Sample ID: G-2991-R2-SCRUBBER BLOWDOWN

GC/MS Volatiles

Lot-Sample #...: H6D030205-007 **Work Order #...:** H2HQT1AA **Matrix.....:** WATER
Date Sampled...: 03/29/06 **Date Received..:** 04/02/06
Prep Date.....: 04/05/06 **Analysis Date..:** 04/05/06
Prep Batch #...: 6095253
Dilution Factor: 1 **Method.....:** SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	**4.1 J**	**10**	**ug/L**	**1.4**
Acrylonitrile	ND	20	ug/L	2.7
Benzene	ND	1.0	ug/L	0.10
Bromobenzene	ND	1.0	ug/L	0.11
Bromochloromethane	ND	1.0	ug/L	0.24
Bromodichloromethane	ND	1.0	ug/L	0.10
Bromoform	**0.92 J**	**1.0**	**ug/L**	**0.14**
Bromomethane	ND	2.0	ug/L	0.38
2-Butanone	ND	5.0	ug/L	0.75
n-Butylbenzene	ND	1.0	ug/L	0.10
sec-Butylbenzene	ND	1.0	ug/L	0.10
tert-Butylbenzene	ND	1.0	ug/L	0.24
Carbon disulfide	ND	1.0	ug/L	0.10
Carbon tetrachloride	ND	1.0	ug/L	0.12
Chlorobenzene	ND	1.0	ug/L	0.10
Chlorodibromomethane	**0.87 J**	**1.0**	**ug/L**	**0.20**
Chloroethane	ND	2.0	ug/L	0.24
Chloroform	ND	1.0	ug/L	0.10
Chloromethane	ND	2.0	ug/L	0.12
2-Chlorotoluene	ND	1.0	ug/L	0.24
4-Chlorotoluene	ND	1.0	ug/L	0.21
1,2-Dibromo-3-chloro-propane	ND	2.0	ug/L	0.45
1,2-Dibromoethane	ND	1.0	ug/L	0.24
Dibromomethane	ND	1.0	ug/L	0.21
1,2-Dichlorobenzene	ND	1.0	ug/L	0.10
1,3-Dichlorobenzene	ND	1.0	ug/L	0.10
1,4-Dichlorobenzene	ND	1.0	ug/L	0.12
Dichlorodifluoromethane	ND	2.0	ug/L	0.15
1,1-Dichloroethane	ND	1.0	ug/L	0.10
1,2-Dichloroethane	ND	1.0	ug/L	0.10
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.12
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.10
1,1-Dichloroethene	ND	1.0	ug/L	0.10
1,2-Dichloropropane	ND	1.0	ug/L	0.10
1,3-Dichloropropane	ND	1.0	ug/L	0.17
2,2-Dichloropropane	ND	1.0	ug/L	0.11
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.10
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.11

(Continued on next page)

STL Knoxville - ACS

Client Sample ID: G-2991-R2-SCRUBBER BLOWDOWN

GC/MS Volatiles

Lot-Sample #...: H6D030205-007 **Work Order #...:** H2HQT1AA **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1-Dichloropropene	ND	1.0	ug/L	0.10
Ethylbenzene	ND	1.0	ug/L	0.10
Hexachlorobutadiene	ND	2.0	ug/L	0.12
2-Hexanone	ND	5.0	ug/L	0.76
Iodomethane	ND	2.0	ug/L	0.12
Isopropylbenzene	ND	1.0	ug/L	0.10
p-Isopropyltoluene	ND	1.0	ug/L	0.10
Methylene chloride	**2.3**	**2.0**	**ug/L**	**0.23**
4-Methyl-2-pentanone	ND	5.0	ug/L	0.40
Naphthalene	ND	1.0	ug/L	0.17
n-Propylbenzene	ND	1.0	ug/L	0.10
Styrene	ND	1.0	ug/L	0.10
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	0.12
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.15
Tetrachloroethene	ND	1.0	ug/L	0.10
Tetrahydrofuran	ND	4.0	ug/L	1.2
Toluene	**0.41 J**	**1.0**	**ug/L**	**0.10**
1,2,3-Trichlorobenzene	ND	1.0	ug/L	0.23
1,2,4-Trichloro-benzene	ND	1.0	ug/L	0.15
1,1,1-Trichloroethane	ND	1.0	ug/L	0.10
1,1,2-Trichloroethane	ND	1.0	ug/L	0.25
Trichloroethene	ND	1.0	ug/L	0.10
Trichlorofluoromethane	ND	2.0	ug/L	0.12
1,2,3-Trichloropropane	ND	1.0	ug/L	0.36
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	1.0	ug/L	0.13
1,2,4-Trimethylbenzene	ND	1.0	ug/L	0.11
1,3,5-Trimethylbenzene	ND	1.0	ug/L	0.10
Vinyl acetate	ND	2.0	ug/L	0.24
Vinyl chloride	ND	1.0	ug/L	0.24
m-Xylene & p-Xylene	ND	1.0	ug/L	0.20
o-Xylene	ND	1.0	ug/L	0.14
Xylenes (total)	ND	1.0	ug/L	0.30

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	113	(79 - 120)
1,2-Dichloroethane-d4	113	(71 - 127)
Toluene-d8	101	(80 - 120)
Bromofluorobenzene	97	(69 - 126)

NOTE(S):

J Estimated result. Result is less than RL.

STL Knoxville - ACS

G-2991-R2-SCRUBBER BLOWDOWN

GC/MS Volatiles

Lot-Sample #: H6D030205-007 **Work Order #:** H2HQT1AA **Matrix:** WATER

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT	RETENTION TIME	UNITS
None				ug/L

Data File: /chem/gcms/mz.i/Z040506.b/h2hqt1aa.d
Report Date: 05-Apr-2006 22:47

STL Knoxville

Volatile Organics by GC/MS

Data file : /chem/gcms/mz.i/Z040506.b/h2hqt1aa.d
Lab Smp Id: H2HQT1AA Client Smp ID: G-2991-R2-SCRUBBER
Inj Date : 05-APR-2006 22:30
Operator : 063605 Inst ID: mz.i
Smp Info : H2HQT1AA,1,0,,
Misc Info : Z040506,8260B_LM,focus.sub
Comment : Volatile Organics by GC/MS
Method : /var/chem/gcms/mz.i/Z040506.b/8260B_LM.m
Meth Date : 05-Apr-2006 15:47 tillerm Quant Type: ISTD
Cal Date : 24-MAR-2006 13:51 Cal File: icvzc248.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: focus.sub
Target Version: 3.50
Processing Host: qmidhp01

Concentration Formula: Amt * DF * Uf*Vt/(Vo*1000) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Unit Correction factor
Vt	25000.00000	Sample Volume Purged
Vo	25.00000	Sample Volume Used

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
* 1	Fluorobenzene	96	5.667	5.667	(1.000)	956703	10.0000	
* 2	Chlorobenzene-d5	119	8.928	8.933	(1.000)	176809	10.0000	
* 3	1,4 Dichlorobenzene-d4	152	11.489	11.488	(1.000)	208043	10.0000	
$ 5	1,2-Dichloroethane-d4	65	5.229	5.229	(0.923)	149561	11.2822	11.282
$ 4	Dibromofluoromethane	113	4.828	4.821	(0.852)	172951	11.2820	11.282
$ 6	Toluene-d8	98	7.456	7.455	(0.835)	782147	10.0679	10.068
$ 7	4-Bromofluorobenzene	95	10.121	10.126	(0.881)	204309	9.73772	9.7377
15	Bromomethane	94	1.409	1.414	(0.249)	666	~~0.89954~~	~~0.89954~~
22	Acetone	43	2.121	2.126	(0.374)	5012	4.13555	4.1356
23	*Iodomethane	142	2.176	2.181	(0.384)	684	~~0.54966~~	~~0.54966~~
27	Methylene Chloride	84	2.504	2.503	(0.442)	37203	2.32515	2.3252
39	*THF	42	4.572	4.529	(0.807)	1581	~~0.69690~~	~~0.69690~~
45	1,2-Dichloroethane	62	5.667	5.326	(1.000)	15372	~~0.76944~~	~~0.76944~~
53	4-Methyl-2-pentanone	43	7.456	7.376	(1.316)	6784	~~0.81203~~	~~0.81203~~

MT 4/7/06

Data File: /chem/gcms/mz.i/Z040506.b/h2hqt1aa.d
Report Date: 05-Apr-2006 22:47

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)
54 Toluene (ccc)	91	7.523	7.522	(0.843)	41435	0.41179	0.41179
55 trans-1,3-Dichloropropene	75	7.456	7.784	(0.835)	193	~~0.63734~~	~~0.63734~~
61 Chlorodibromomethane	129	8.350	8.349	(0.935)	920	0.87001	0.87001
69 Bromoform (spcc)	173	9.780	9.779	(1.095)	327	0.91741	0.91741

MS 4/7/06

Data File: /chem/gcms/mz.i/Z040506.b/h2hqt1aa.d
Report Date: 05-Apr-2006 22:47

STL Knoxville

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: mz.i
Lab File ID: h2hqt1aa.d
Lab Smp Id: H2HQT1AA
Analysis Type: VOA
Quant Type: ISTD
Operator: 063605
Calibration Date: 05-APR-2006
Calibration Time: 14:42
Client Smp ID: G-2991-R2-SCRUBBER
Level: LOW
Sample Type: WATER
Method File: /var/chem/gcms/mz.i/Z040506.b/8260B_LM.m
Misc Info: Z040506,8260B_LM,focus.sub

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	1078707	539354	2157414	956703	-11.31
2 Chlorobenzene-d5	188899	94450	377798	176809	-6.40
3 1,4 Dichlorobenze	220143	110072	440286	208043	-5.50

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	5.67	5.17	6.17	5.67	0.02
2 Chlorobenzene-d5	8.93	8.43	9.43	8.93	-0.06
3 1,4 Dichlorobenze	11.49	10.99	11.99	11.49	0.01

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

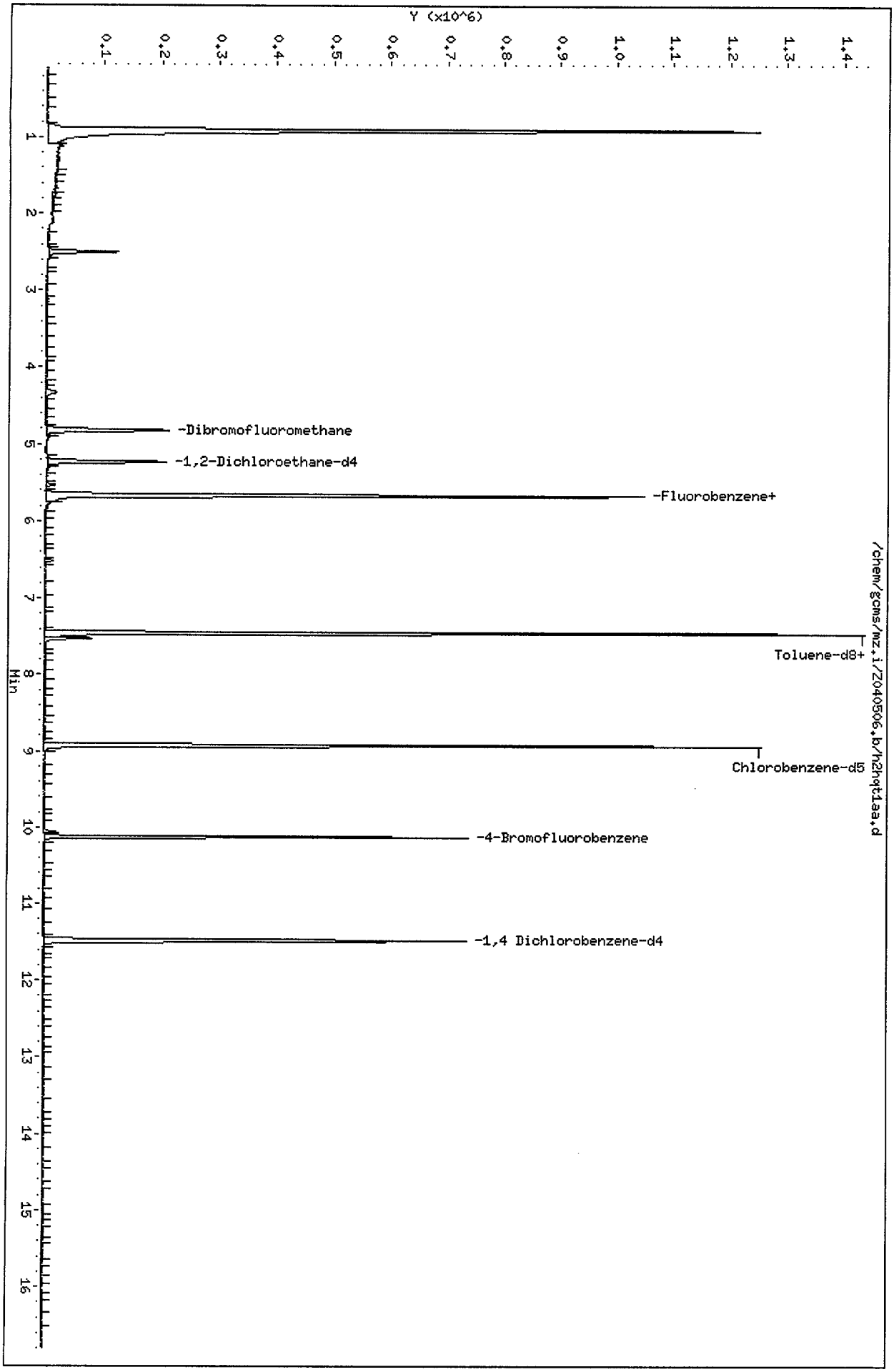
Data File: /chem/gcms/mz.i/Z040506.b/h2hqt1aa.d
Report Date: 05-Apr-2006 22:47

STL Knoxville

RECOVERY REPORT

Client Name: STL Knoxville - ACS
Client SDG: H6D030205
Sample Matrix: LIQUID
Fraction: VOA
Lab Smp Id: H2HQT1AA
Client Smp ID: G-2991-R2-SCRUBBER
Level: LOW
Operator: 063605
Data Type: MS DATA
SampleType: SAMPLE
SpikeList File: allcmpds.spk
Quant Type: ISTD
Sublist File: focus.sub
Method File: /var/chem/gcms/mz.i/Z040506.b/8260B_LM.m
Misc Info: Z040506,8260B_LM,focus.sub

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
$ 5 1,2-Dichloroethane	10.000	11.282	112.82	71-127
$ 4 Dibromofluorometha	10.000	11.282	112.82	79-120
$ 6 Toluene-d8	10.000	10.068	100.68	80-120
$ 7 4-Bromofluorobenze	10.000	9.7377	97.38	69-126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Date : 05-APR-2006 22:30
Client ID: G-2991-R2-SCRUBBER
Sample Info: H2HQT1AA,1.0,,
Purge Volume: 25.0
Column phase: J+W 624
Instrument: mz.i
Operator: 063005
Column diameter: 0.18
Y (x10^6)
-Dibromofluoromethane
-1,2-Dichloroethane-d4
-Fluorobenzene+
Toluene-d8+
Chlorobenzene-d5
-4-Bromofluorobenzene
-1,4 Dichlorobenzene-d4
/chem/gcms/mz.i/Z040506.b/h2hqt1aa.d
Min

Data File: /chem/gcms/mz.i/Z040506.b/h2hqt1aa.d

Date : 05-APR-2006 22:30

Client ID: G-2991-R2-SCRUBBER

Instrument: mz.i

Sample Info: H2HQT1AA,1,0,,

Purge Volume: 25.0

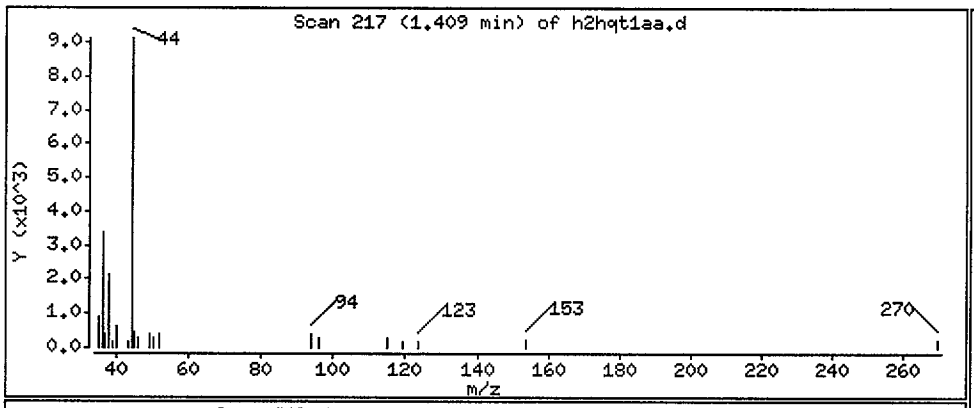
Operator: 063605

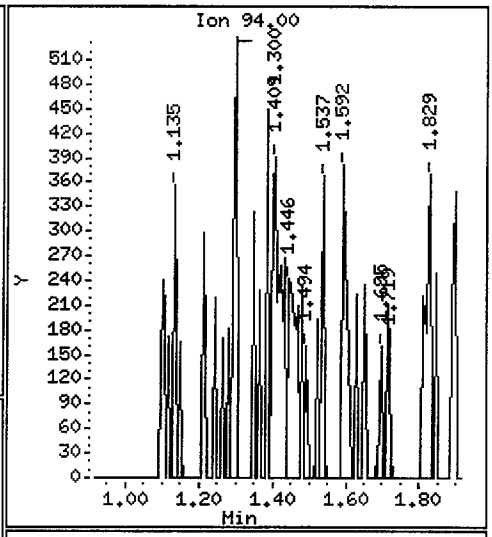
Column phase: J+W 624

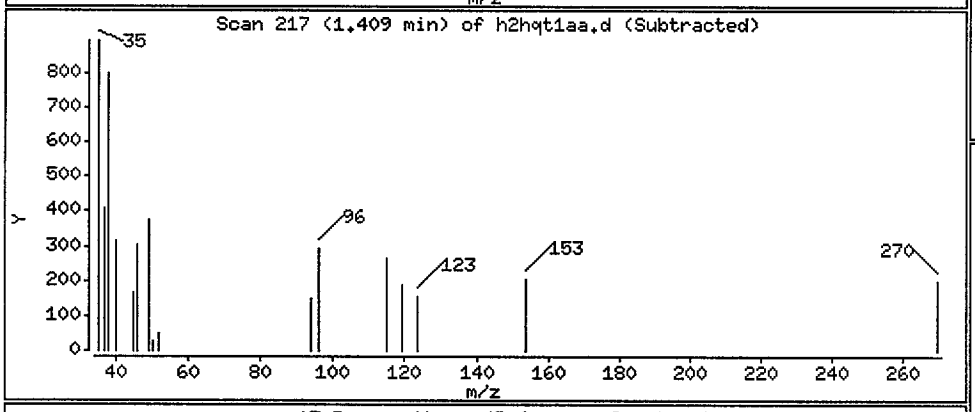
Column diameter: 0.18

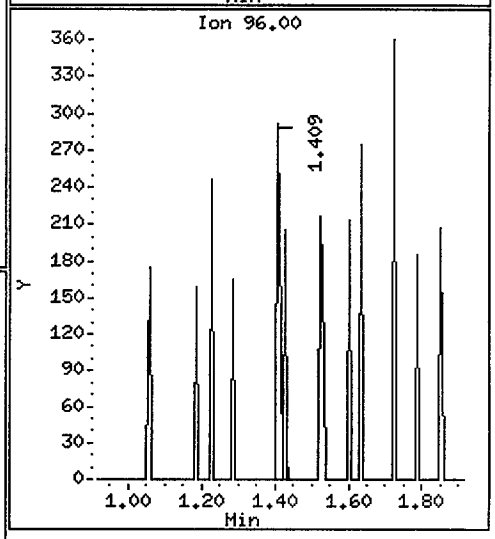
15 Bromomethane

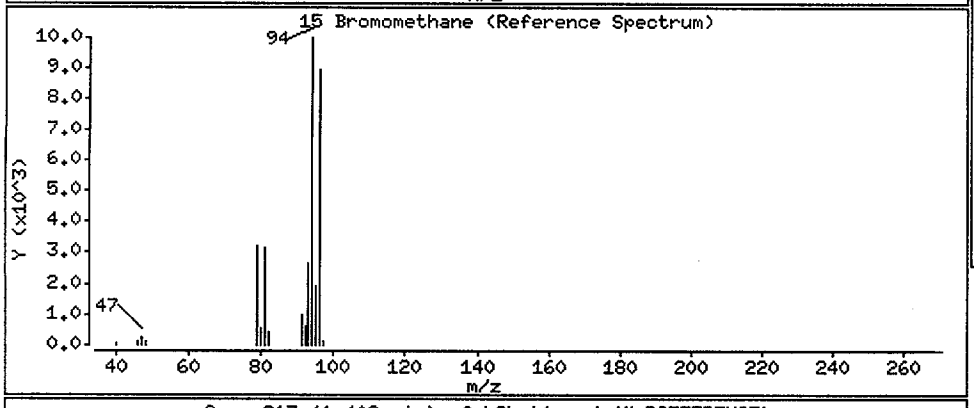
Concentration: 0.89954 ug/L

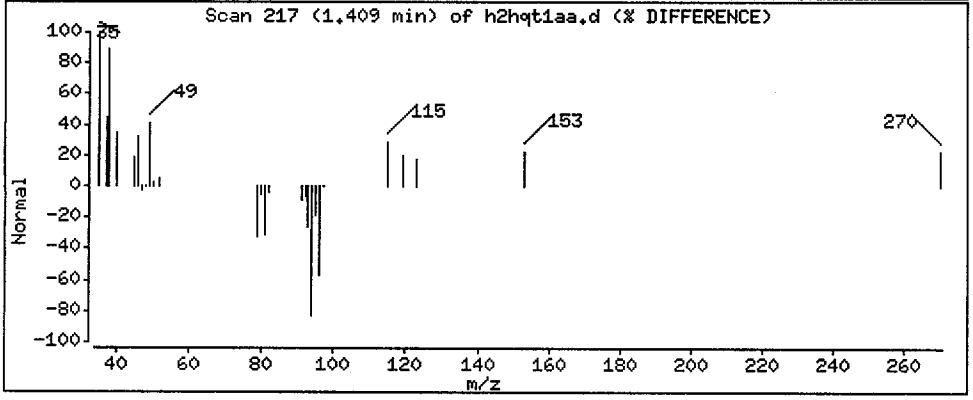












Data File: /chem/gcms/mz.i/Z040506.b/h2hqt1aa.d

Date : 05-APR-2006 22:30

Client ID: G-2991-R2-SCRUBBER

Instrument: mz.i

Sample Info: H2HQT1AA,1,0,,

Purge Volume: 25.0

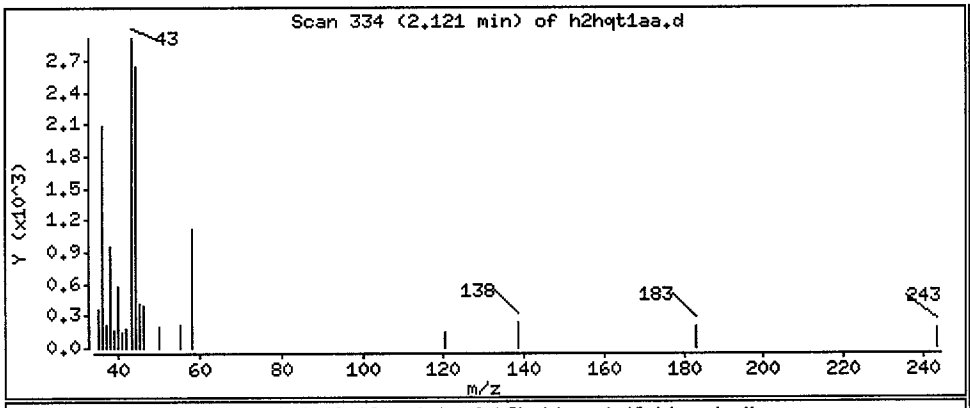
Operator: 063605

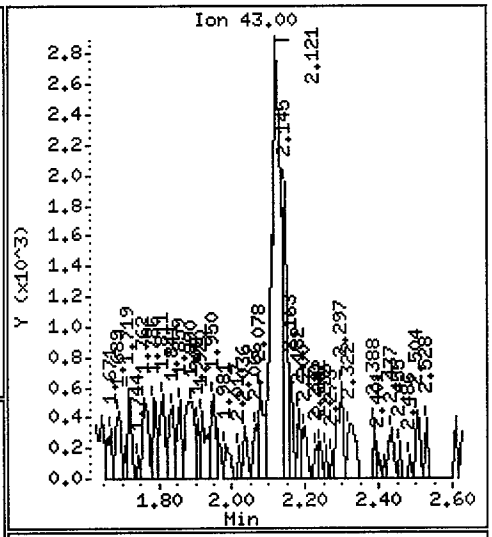
Column phase: J+W 624

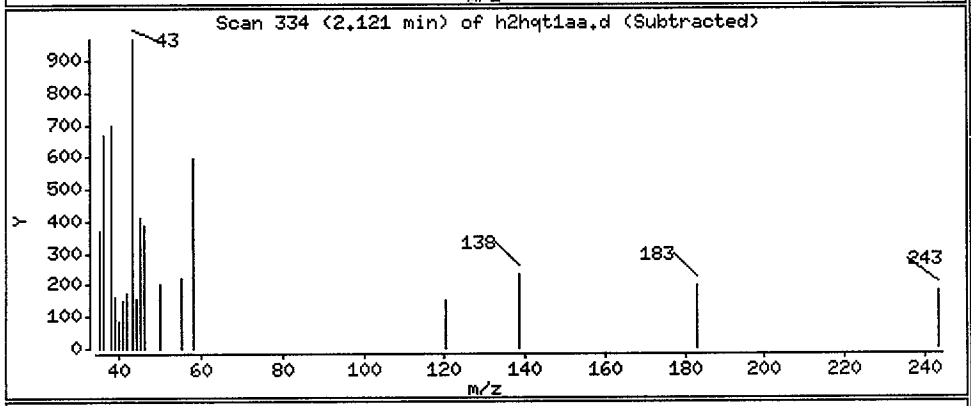
Column diameter: 0.18

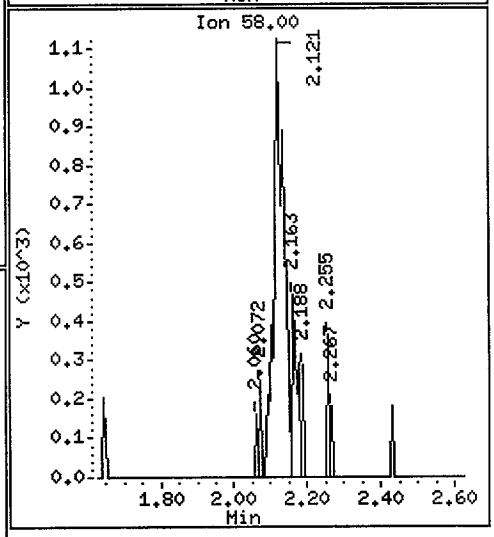
22 Acetone

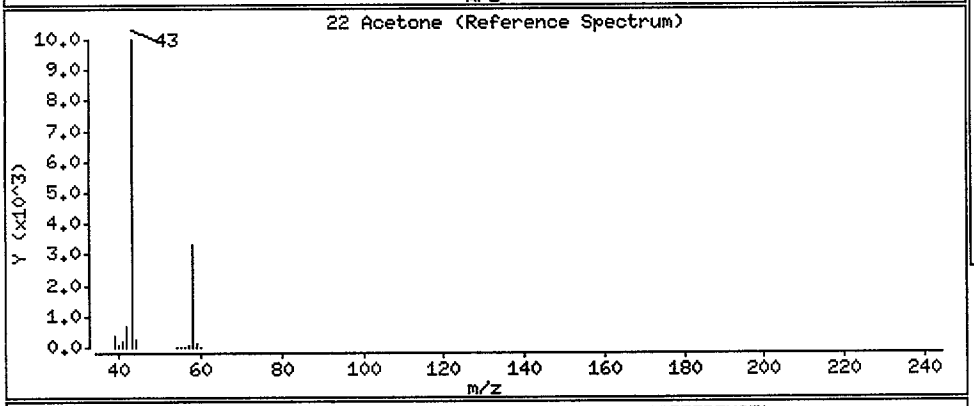
Concentration: 4.1356 ug/L

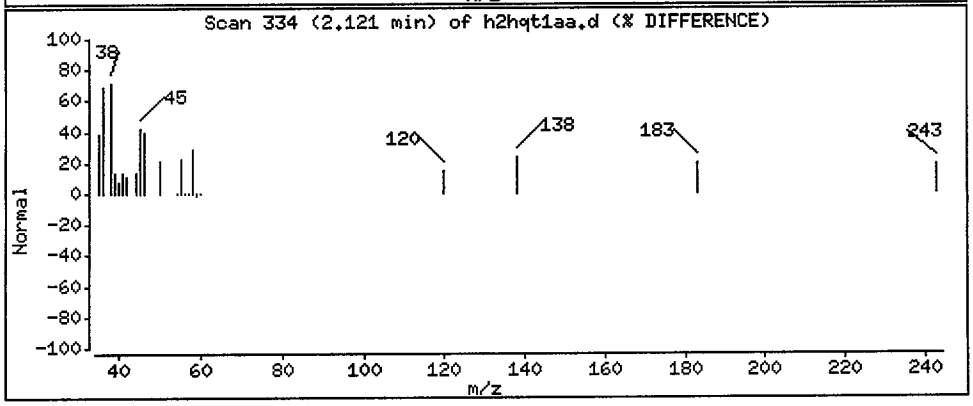












Data File: /chem/gcms/mz.i/Z040506.b/h2hqt1aa.d

Date : 05-APR-2006 22:30

Client ID: G-2991-R2-SCRUBBER

Instrument: mz.i

Sample Info: H2HQT1AA,1,0,,

Purge Volume: 25.0

Operator: 063605

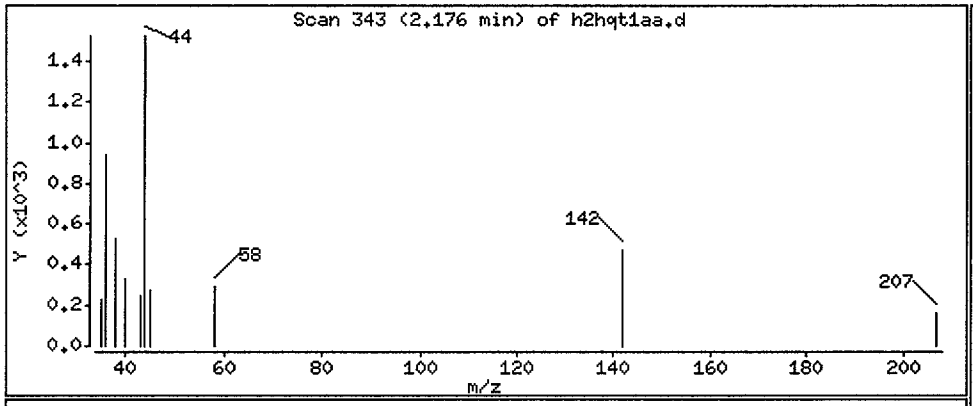
Column phase: J+W 624

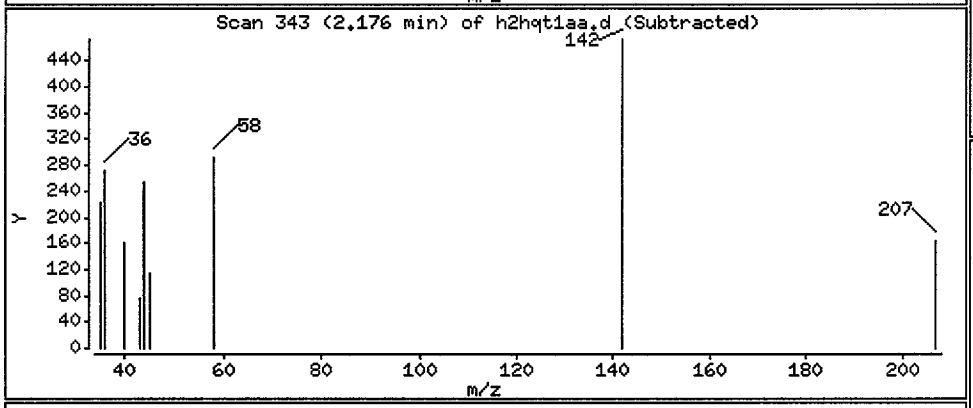
Column diameter: 0.18

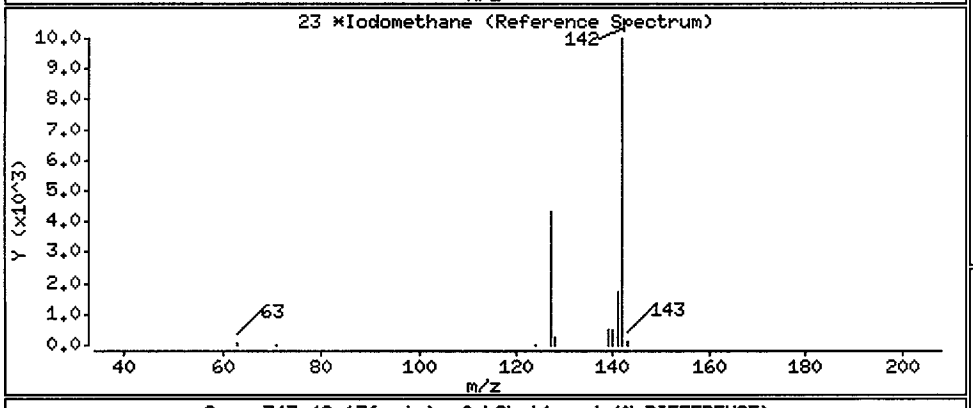
22% noise 4/20/06 JL

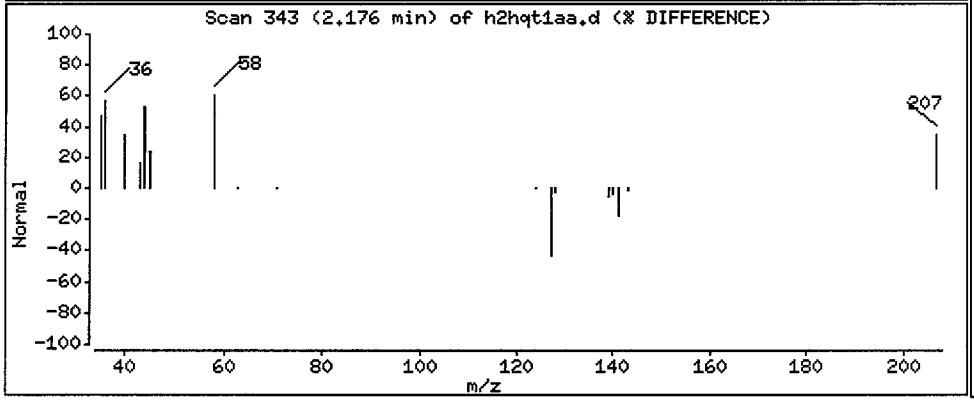
23 *Iodomethane

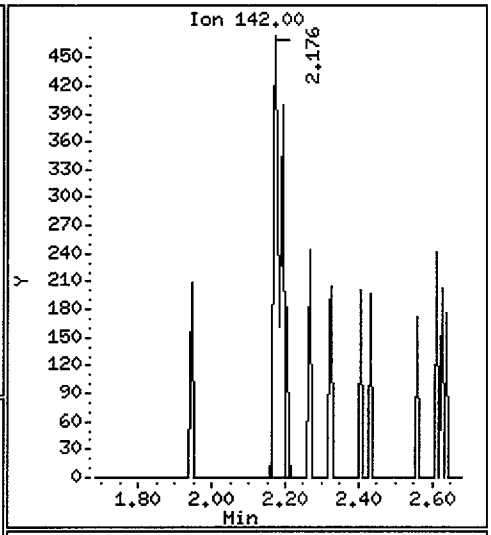
Concentration: 0.54966 ug/L

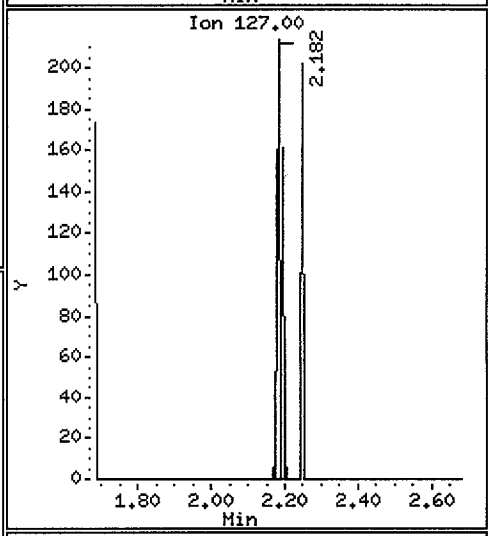


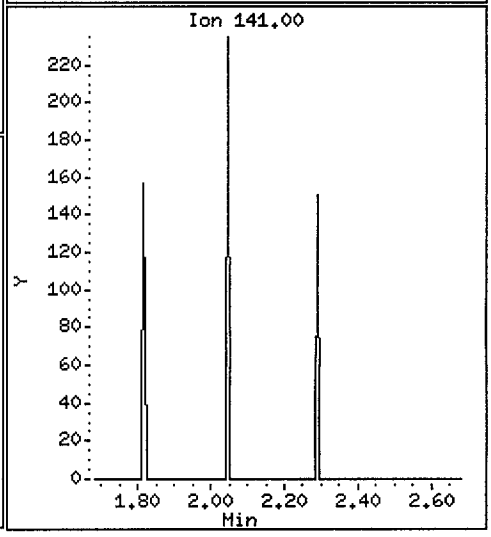












Data File: /chem/gcms/mz.i/Z040506.b/h2hqt1aa.d

Date : 05-APR-2006 22:30

Client ID: G-2991-R2-SCRUBBER

Instrument: mz.i

Sample Info: H2HQT1AA,1,0,,

Purge Volume: 25.0

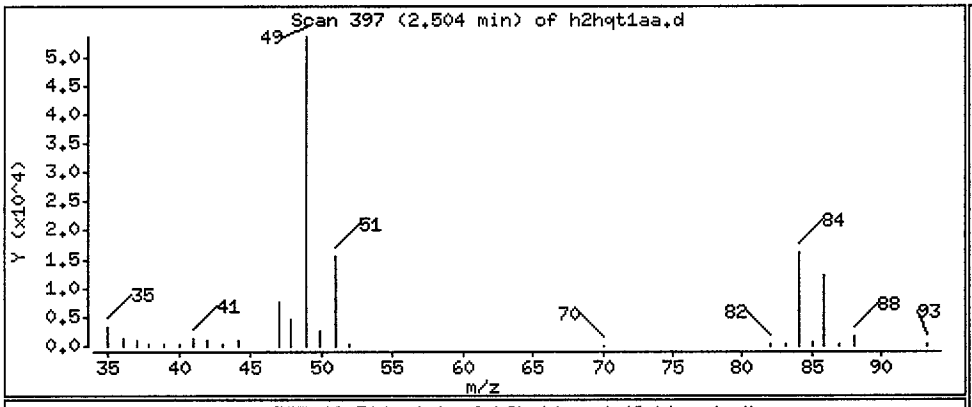
Operator: 063605

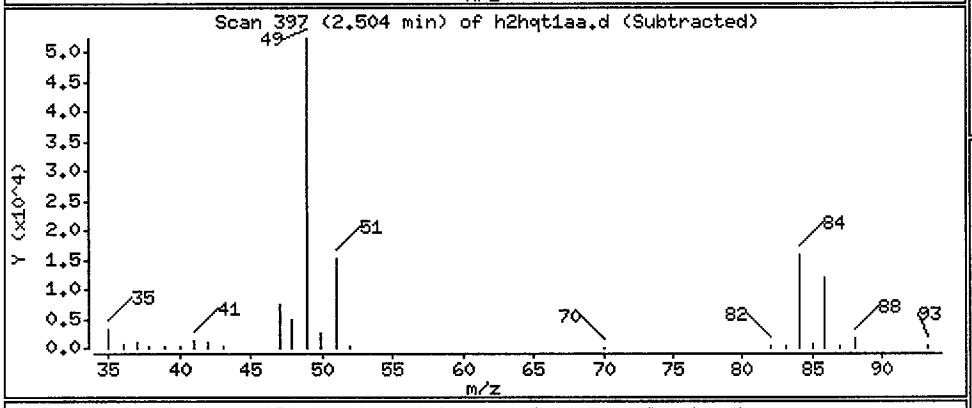
Column phase: J+W 624

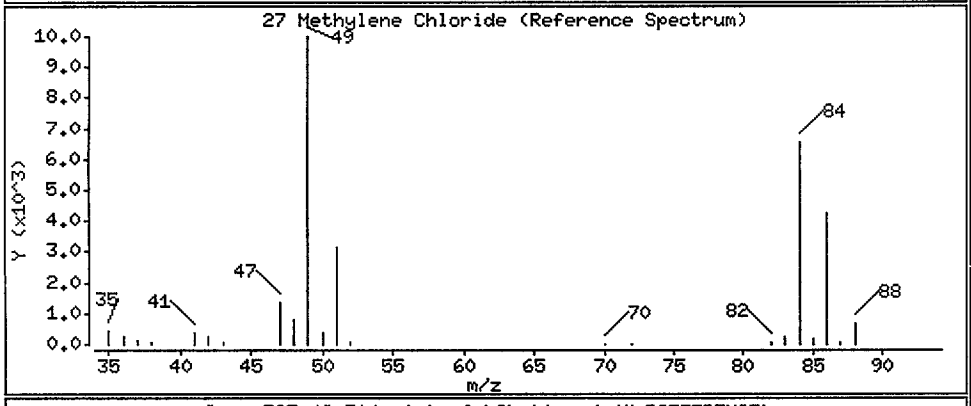
Column diameter: 0.18

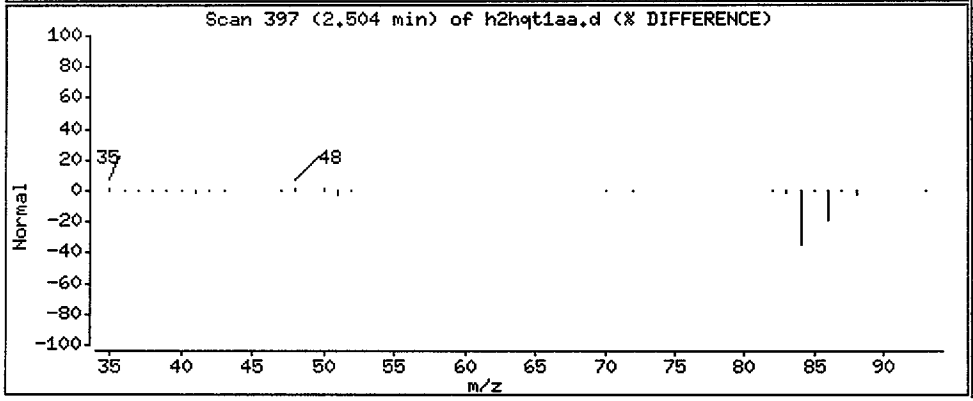
27 Methylene Chloride

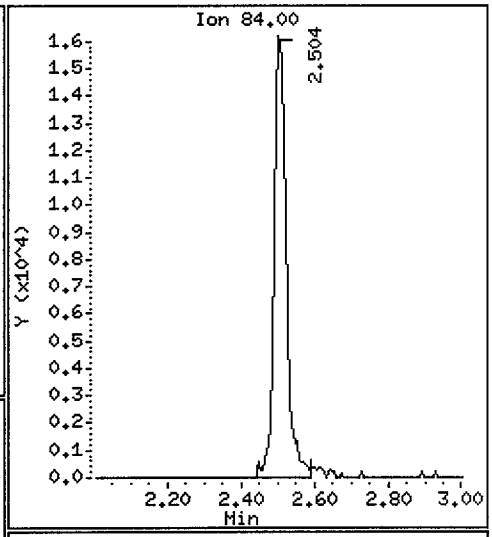
Concentration: 2.3252 ug/L

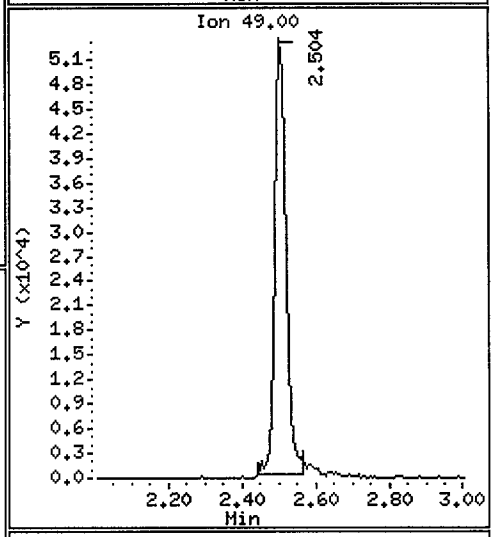


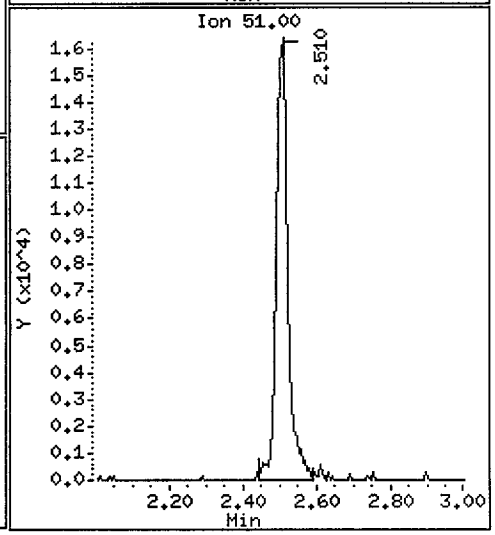












Data File: /chem/gcms/mz.i/Z040506.b/h2hqt1aa.d

Date : 05-APR-2006 22:30

Client ID: G-2991-R2-SCRUBBER

Instrument: mz.i

Sample Info: H2HQT1AA,1,0,,

Purge Volume: 25.0

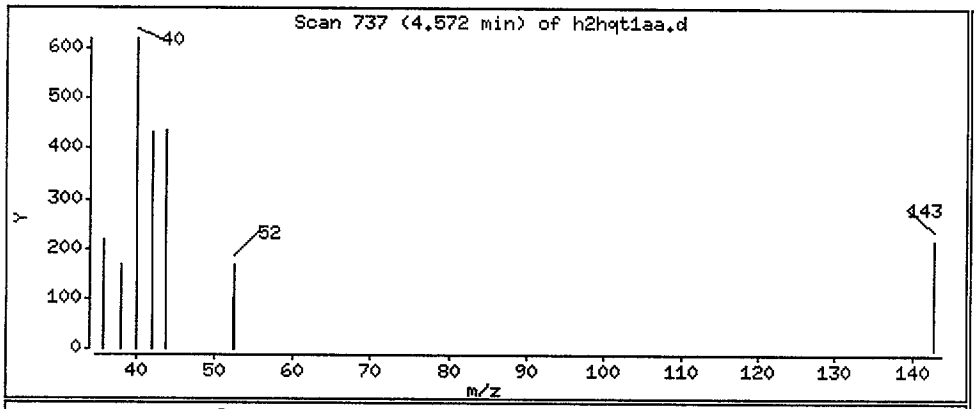
Operator: 063605

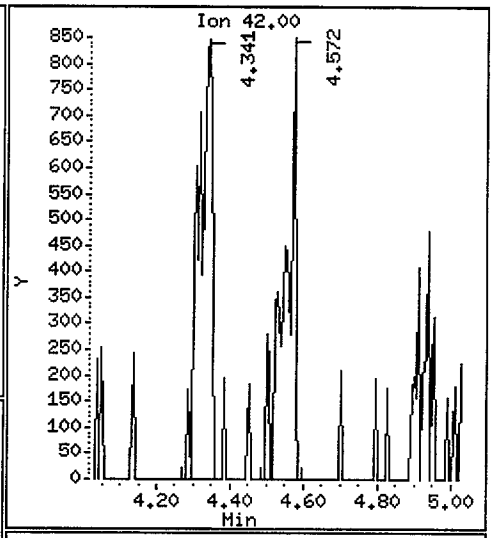
Column phase: J+W 624

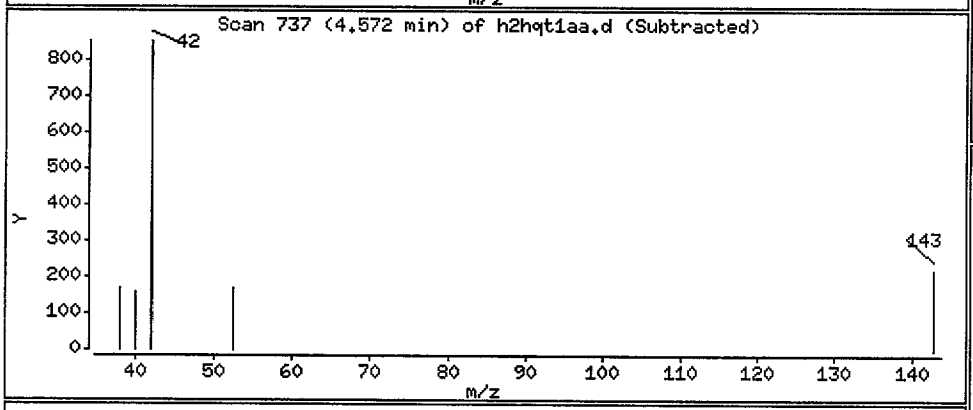
Column diameter: 0.18

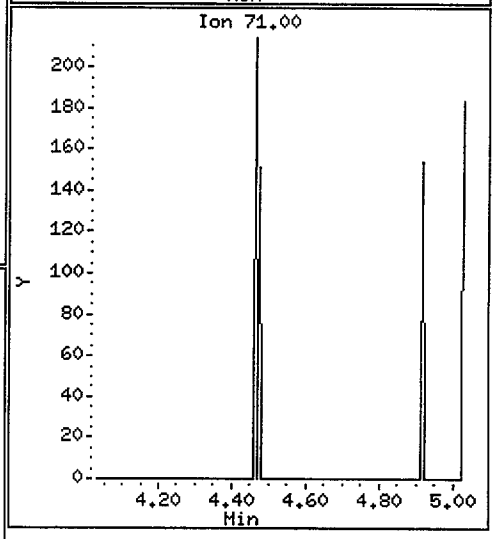
39 *THF

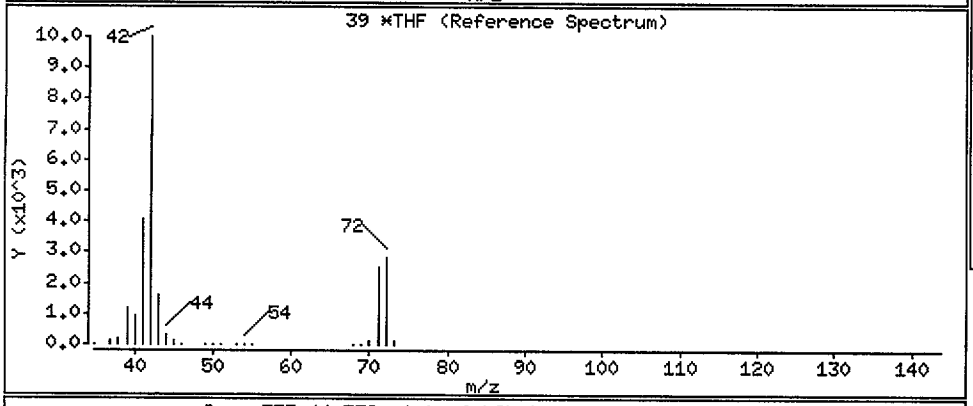
Concentration: 0.69690 ug/L

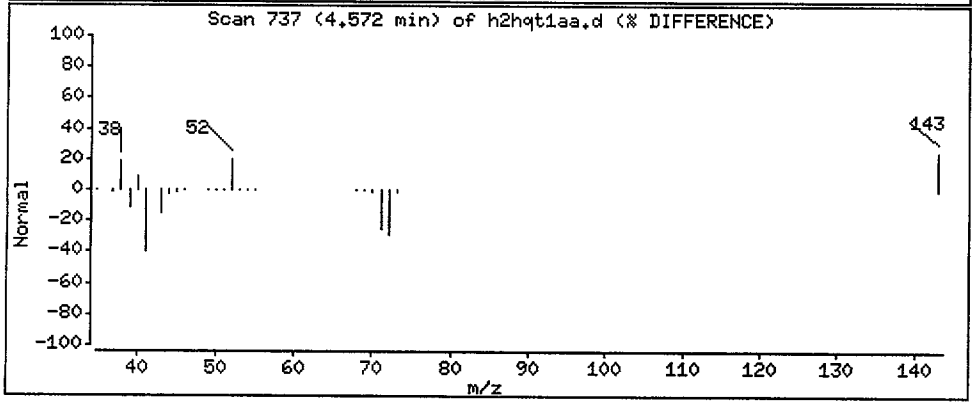












Data File: /chem/gcms/mz.i/Z040506.b/h2hqt1aa.d

Date : 05-APR-2006 22:30

Client ID: G-2991-R2-SCRUBBER

Instrument: mz.i

Sample Info: H2HQT1AA,1,0,,

Purge Volume: 25.0

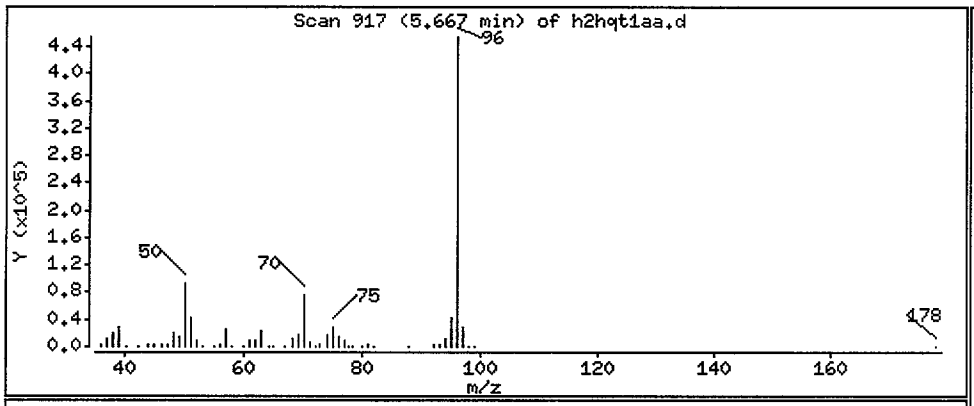
Operator: 063605

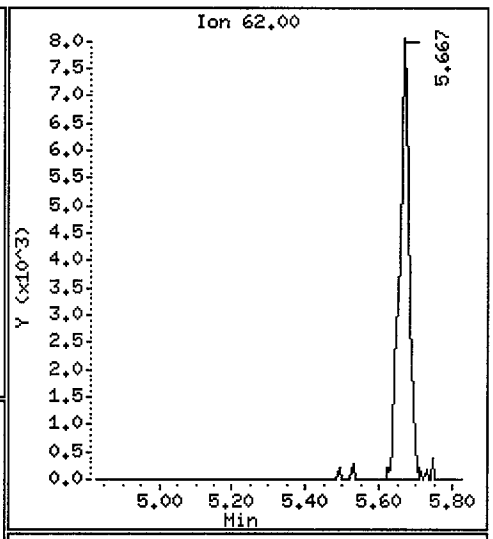
Column phase: J+W 624

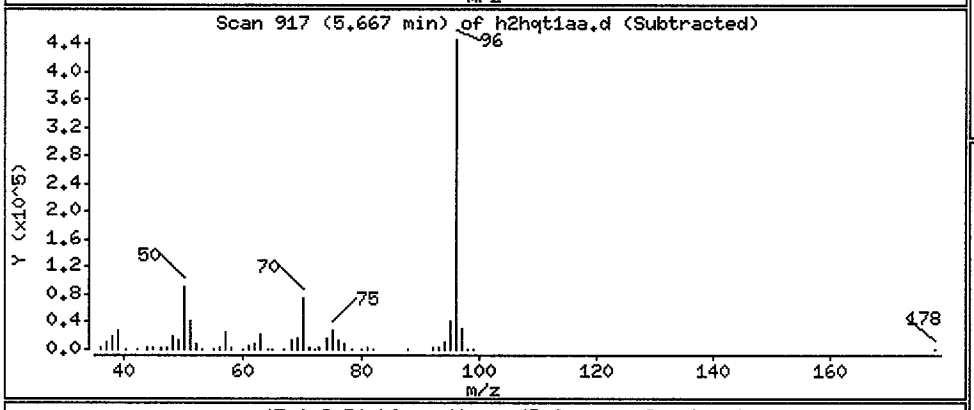
Column diameter: 0.18

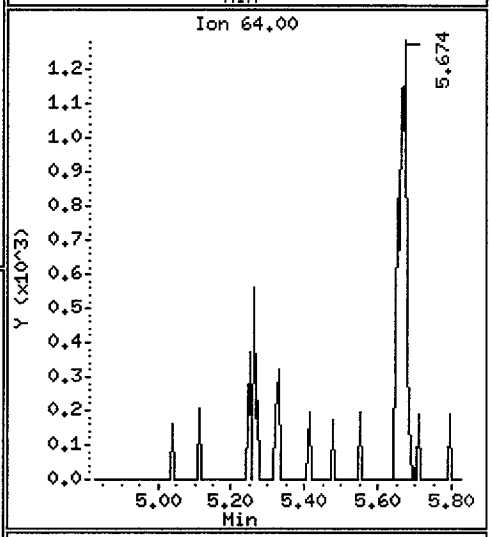
45 1,2-Dichloroethane

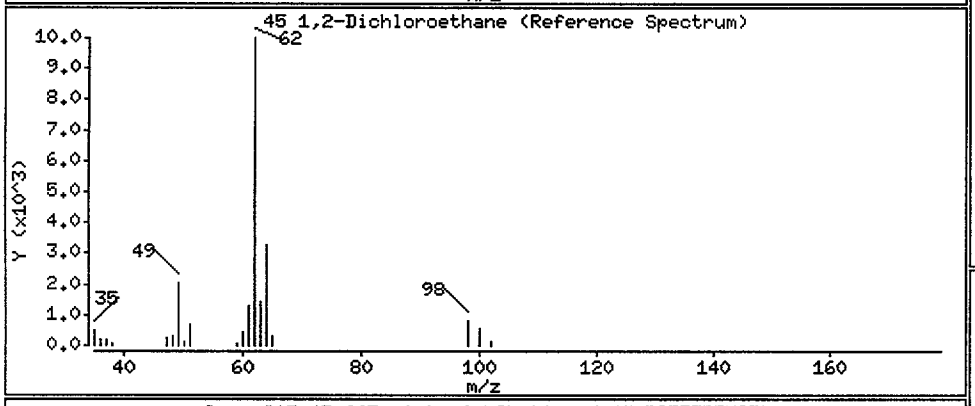
Concentration: 0.76944 ug/L

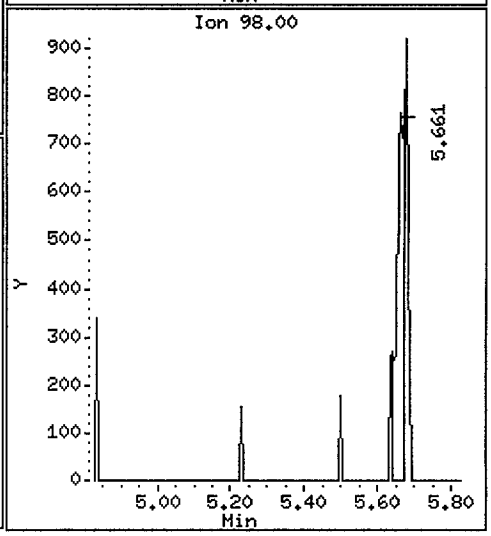


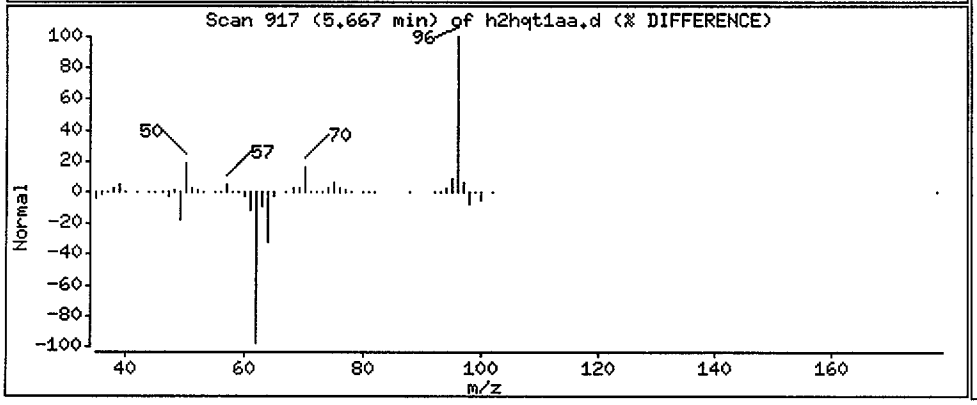












Data File: /chem/gcms/mz.i/Z040506.b/h2hqt1aa.d

Date : 05-APR-2006 22:30

Client ID: G-2991-R2-SCRUBBER

Instrument: mz.i

Sample Info: H2HQT1AA,1,0,,

Purge Volume: 25.0

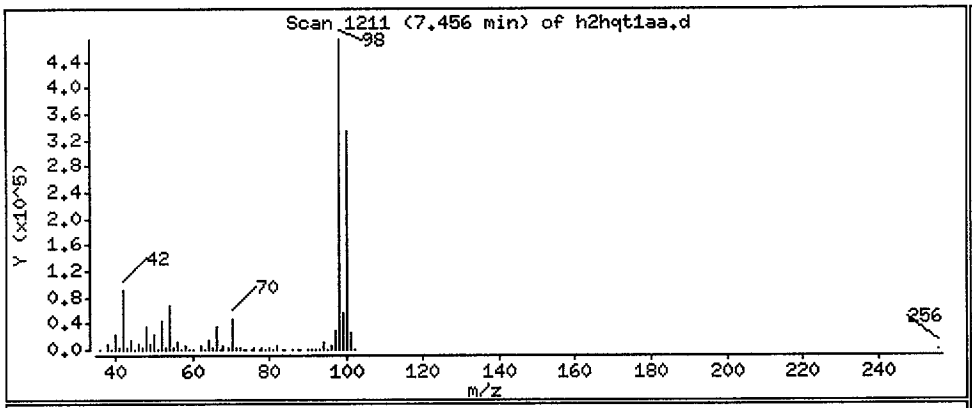
Operator: 063605

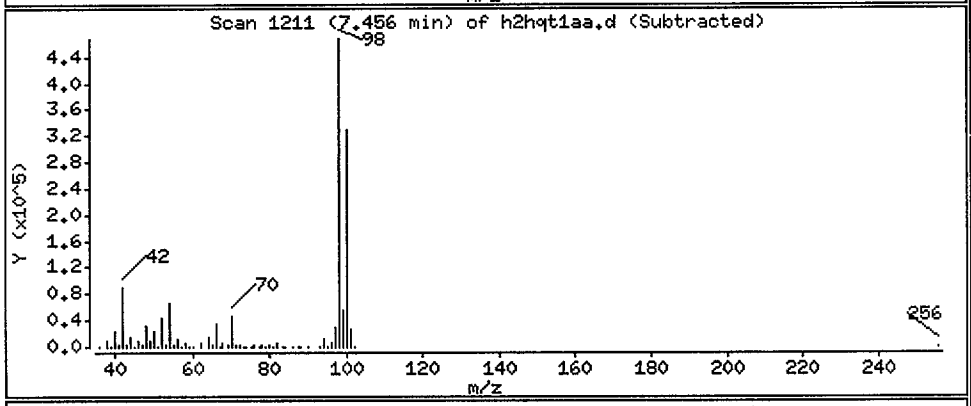
Column phase: J+W 624

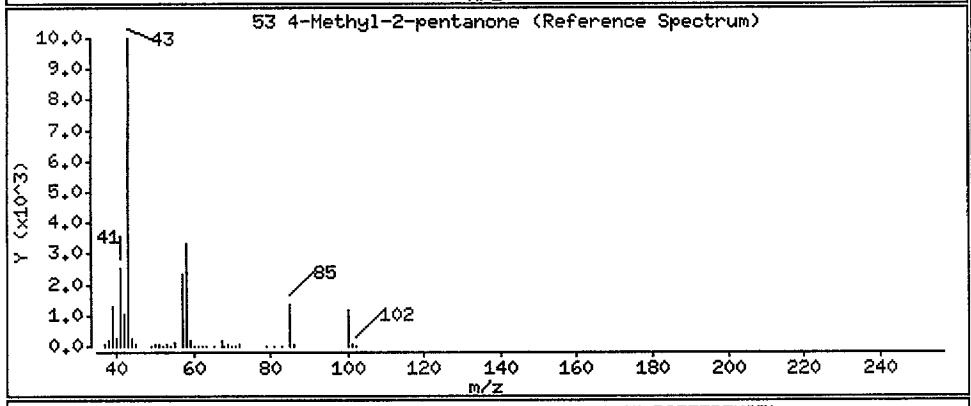
Column diameter: 0.18

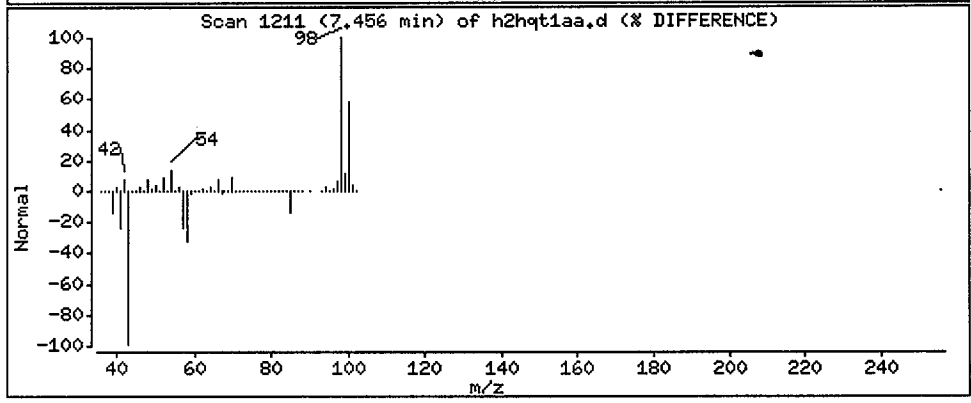
53 4-Methyl-2-pentanone

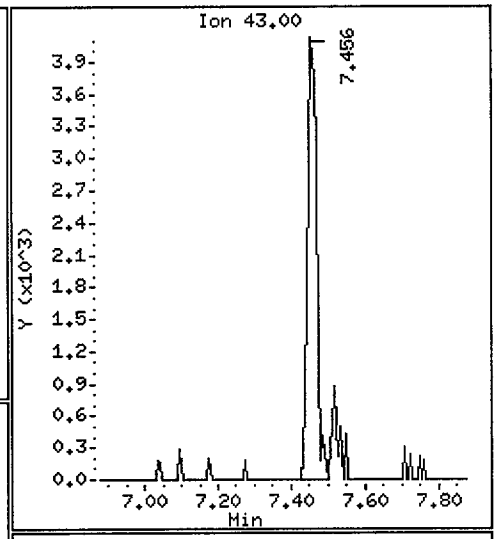
Concentration: 0.81203 ug/L

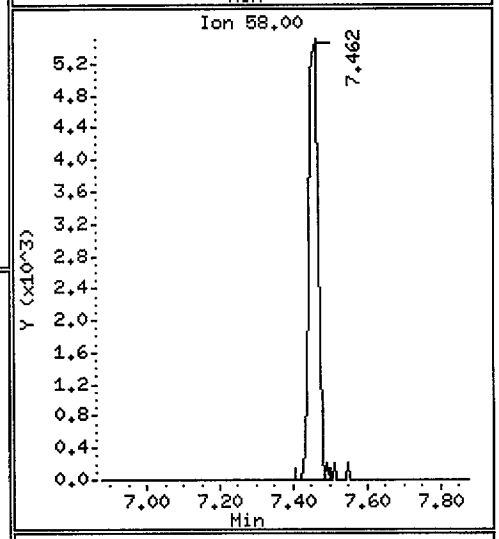


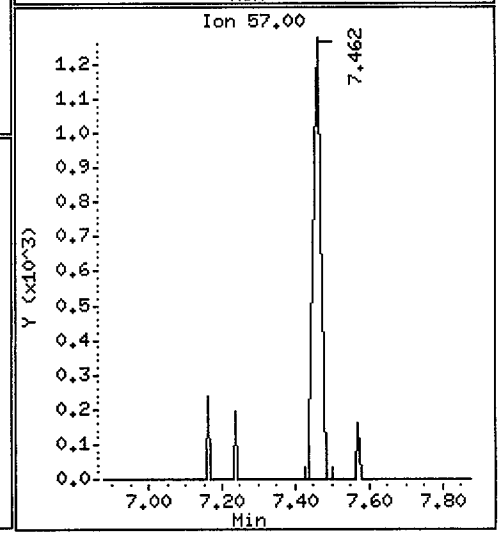












Data File: /chem/gcms/mz.i/Z040506.b/h2hqt1aa.d

Date : 05-APR-2006 22:30

Client ID: G-2991-R2-SCRUBBER

Instrument: mz.i

Sample Info: H2HQT1AA,1,0,,

Purge Volume: 25.0

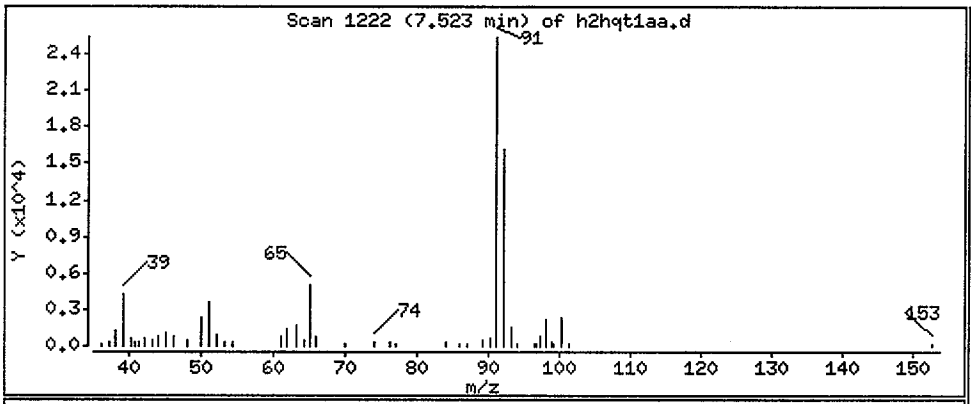
Operator: 063605

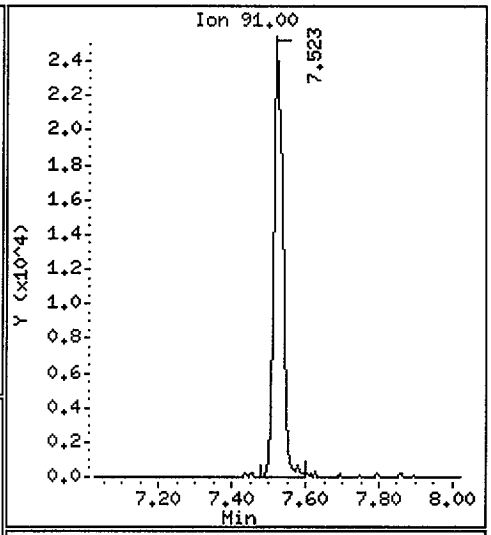
Column phase: J+W 624

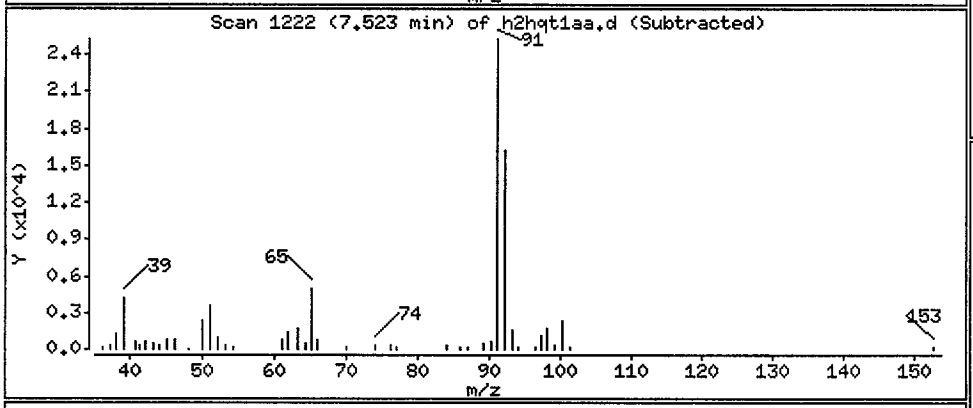
Column diameter: 0.18

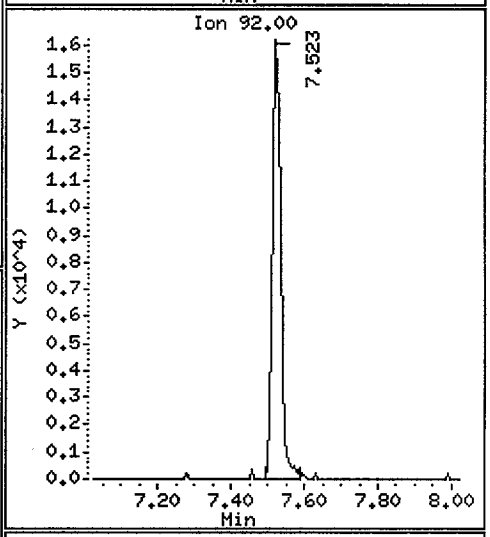
54 Toluene (ccc)

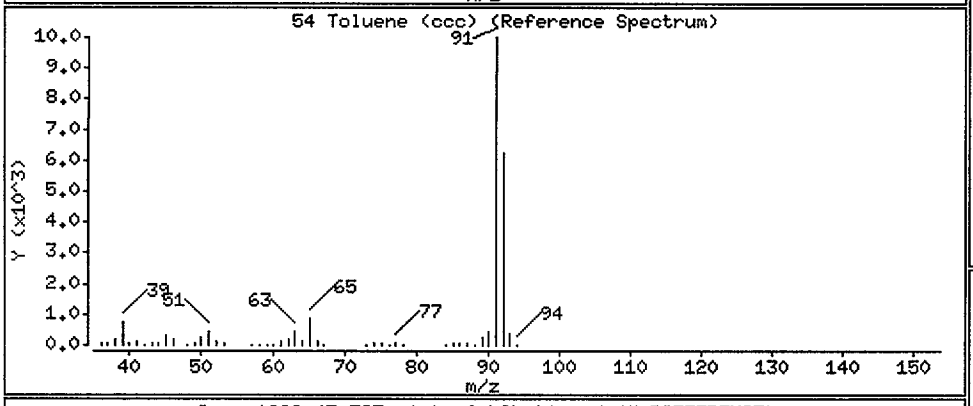
Concentration: 0.41179 ug/L

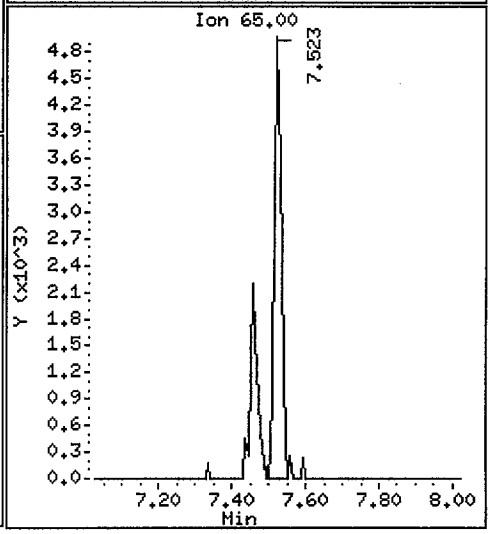


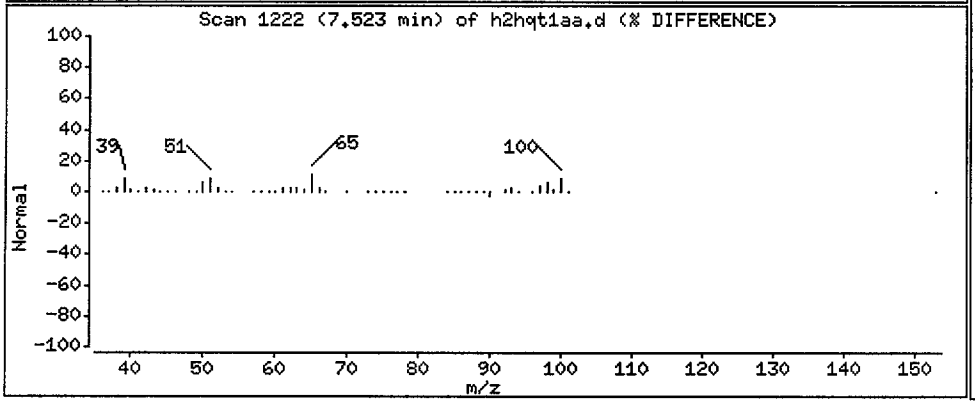












Data File: /chem/gcms/mz.i/Z040506.b/h2hqt1aa.d

Date : 05-APR-2006 22:30

Client ID: G-2991-R2-SCRUBBER

Instrument: mz.i

Sample Info: H2HQT1AA,1,0,,

Purge Volume: 25.0

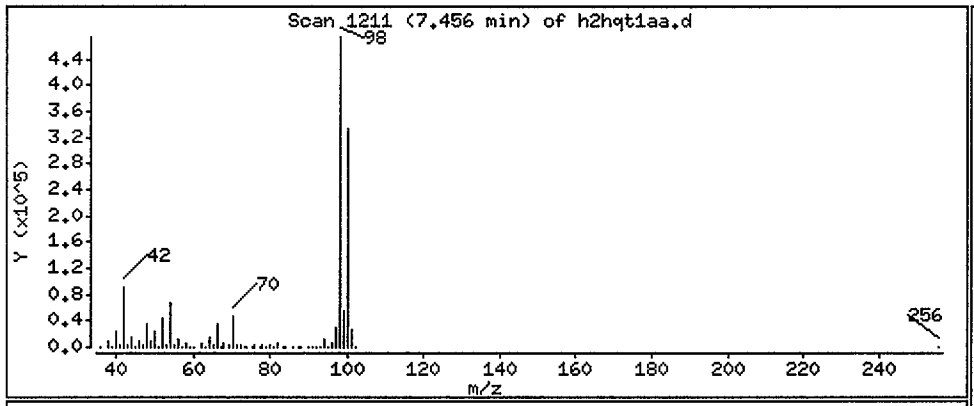
Operator: 063605

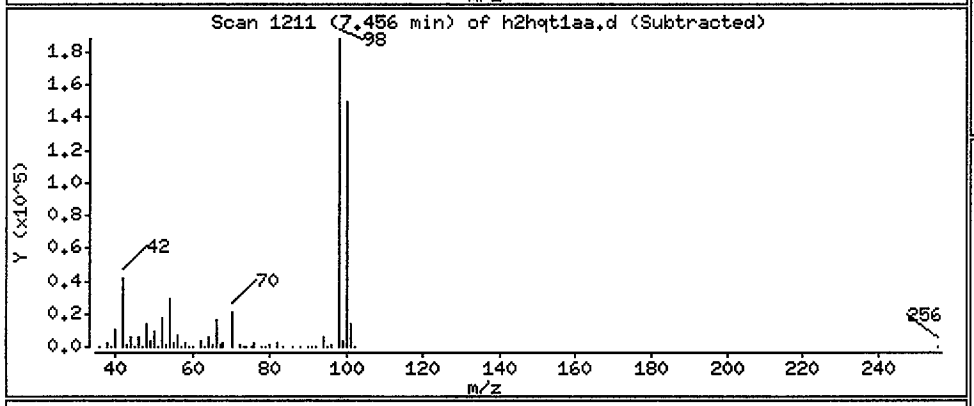
Column phase: J+W 624

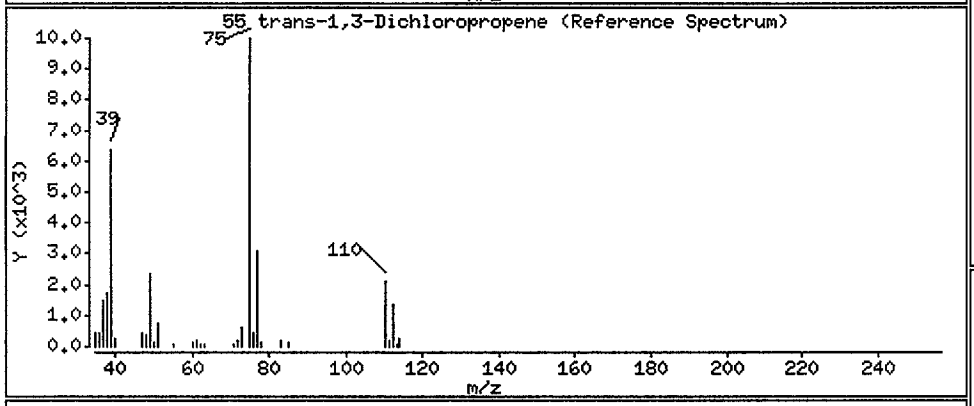
Column diameter: 0.18

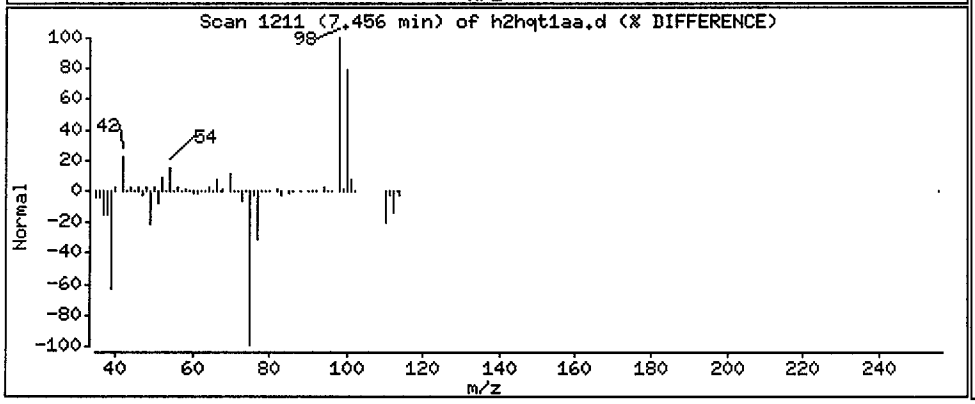
55 trans-1,3-Dichloropropene

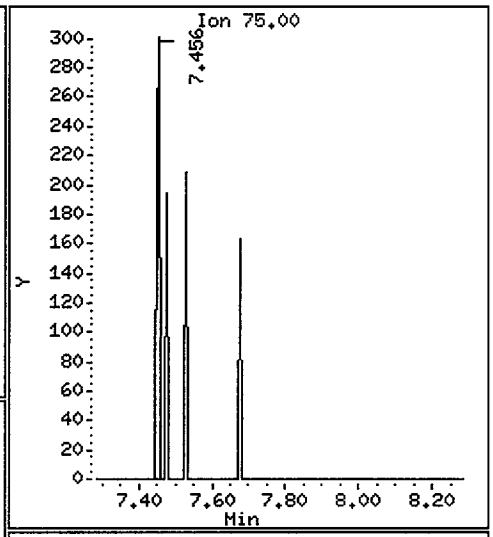
Concentration: 0.63734 ug/L

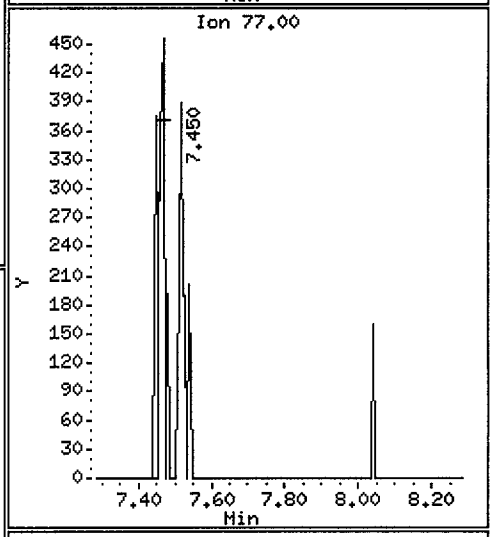


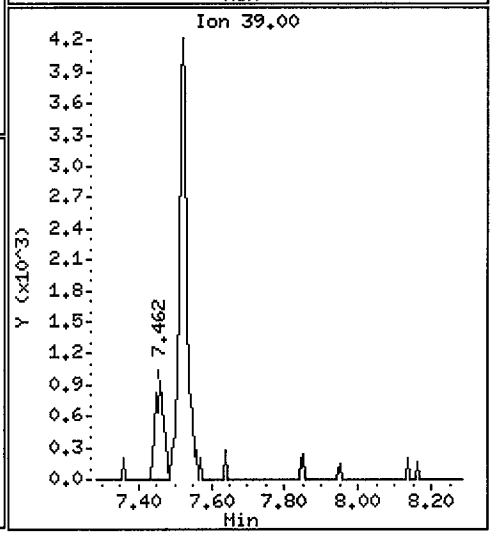












Data File: /chem/gcms/mz.i/Z040506.b/h2hqt1aa.d

Date : 05-APR-2006 22:30

Client ID: G-2991-R2-SCRUBBER

Instrument: mz.i

Sample Info: H2HQT1AA,1,0,,

Purge Volume: 25.0

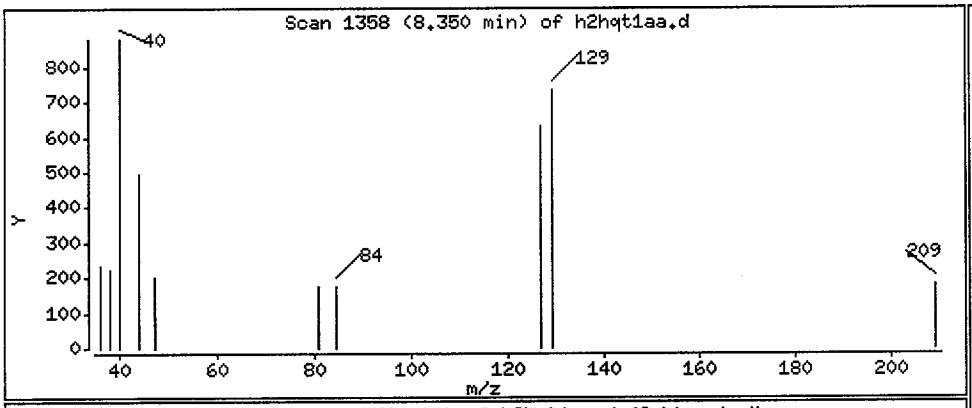
Operator: 063605

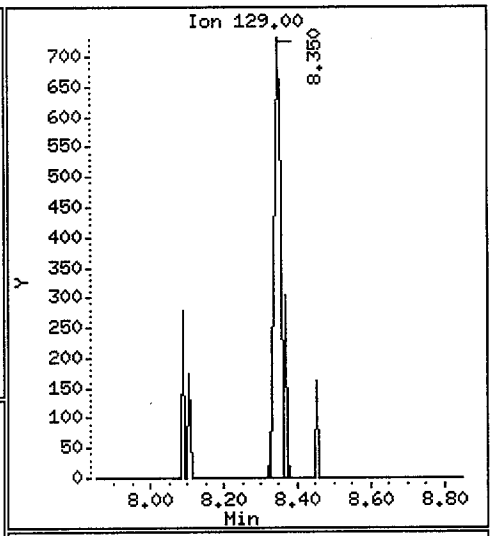
Column phase: J+W 624

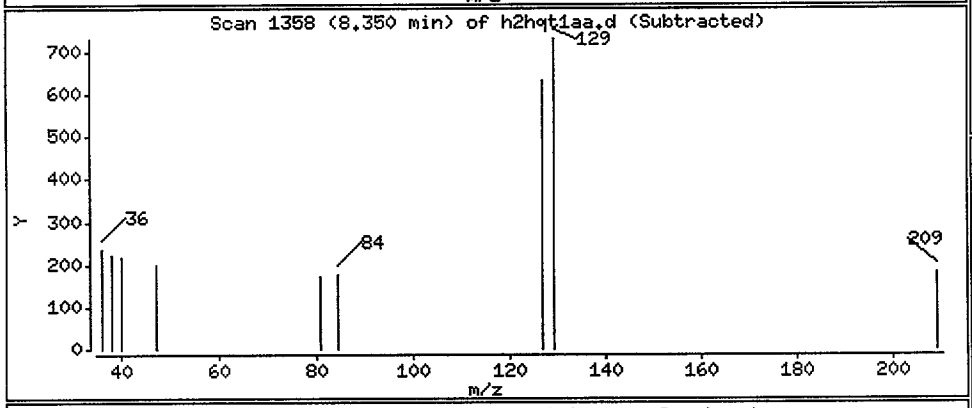
Column diameter: 0.18

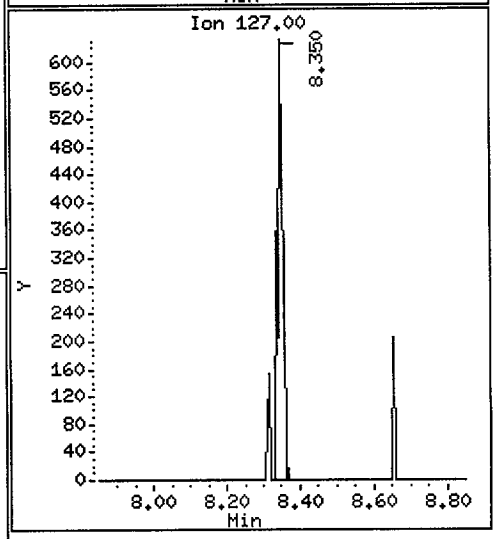
61 Chlorodibromomethane

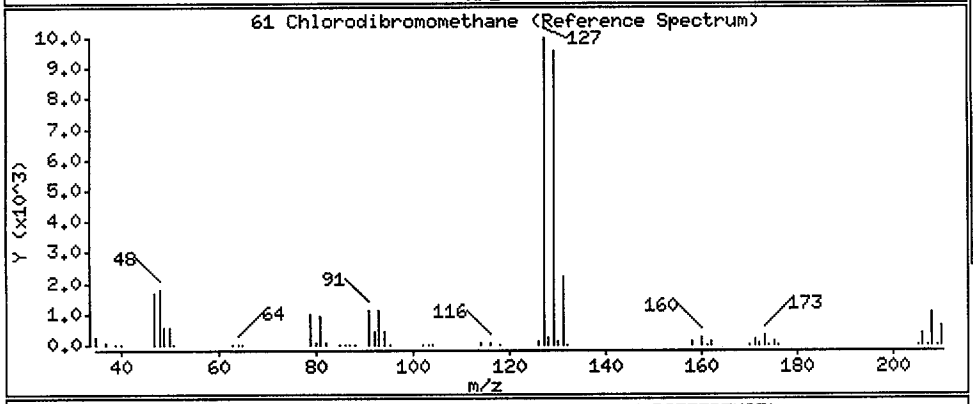
Concentration: 0.87001 ug/L

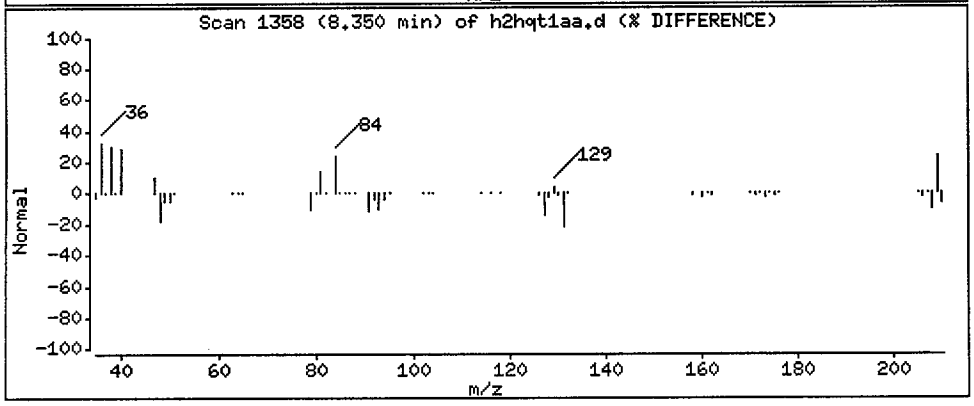












Data File: /chem/gcms/mz.i/Z040506.b/h2hqt1aa.d

Date : 05-APR-2006 22:30

Client ID: G-2991-R2-SCRUBBER

Instrument: mz.i

Sample Info: H2HQT1AA,1,0,,

Purge Volume: 25.0

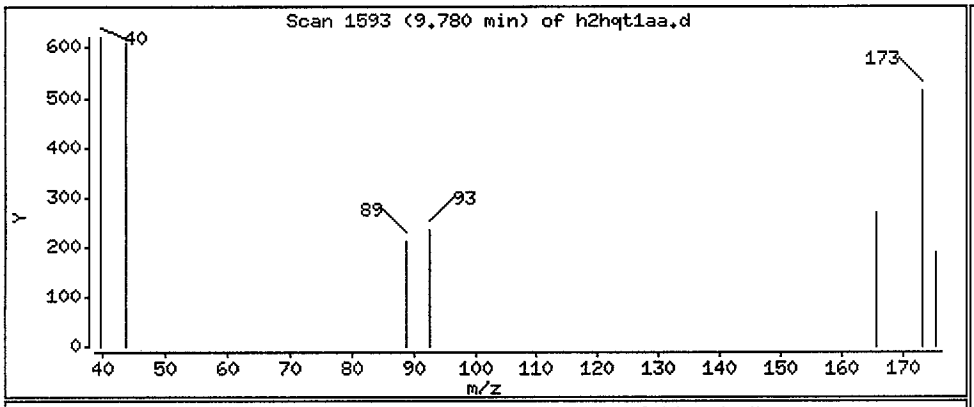
Operator: 063605

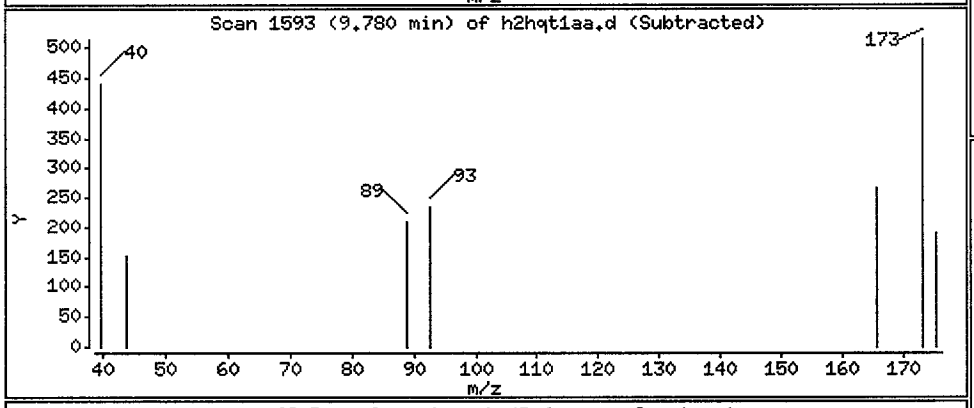
Column phase: J+W 624

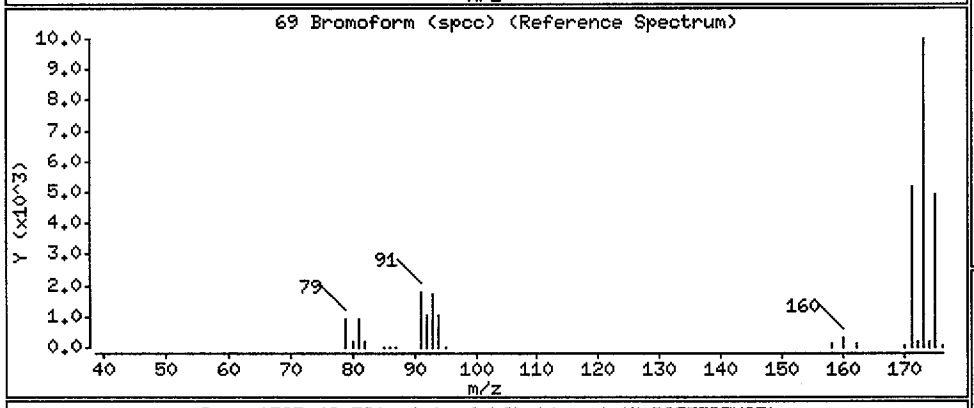
Column diameter: 0.18

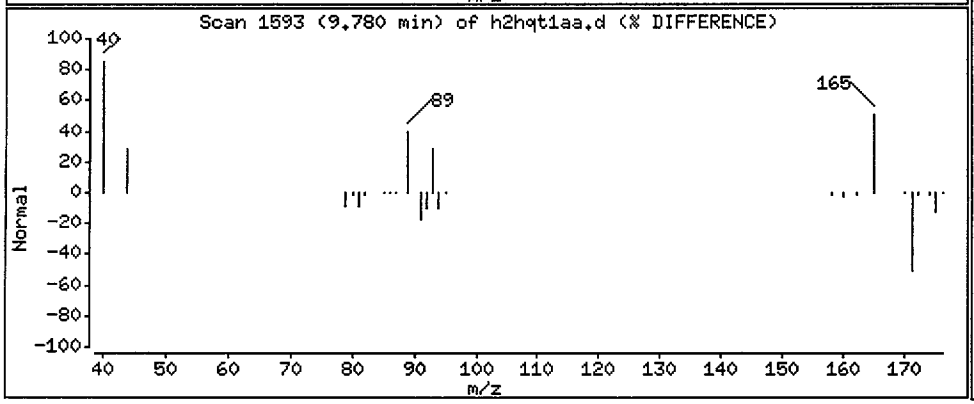
69 Bromoform (spcc)

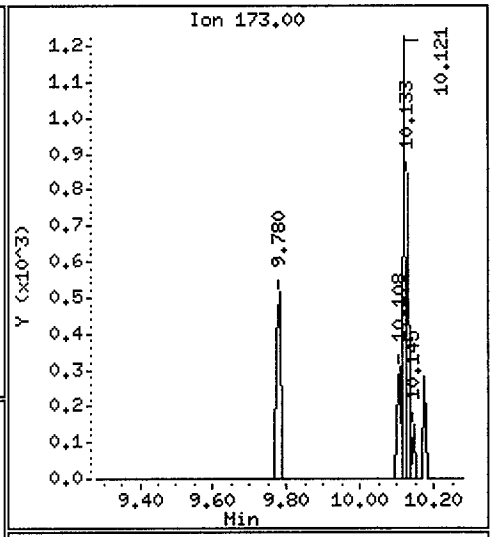
Concentration: 0.91741 ug/L

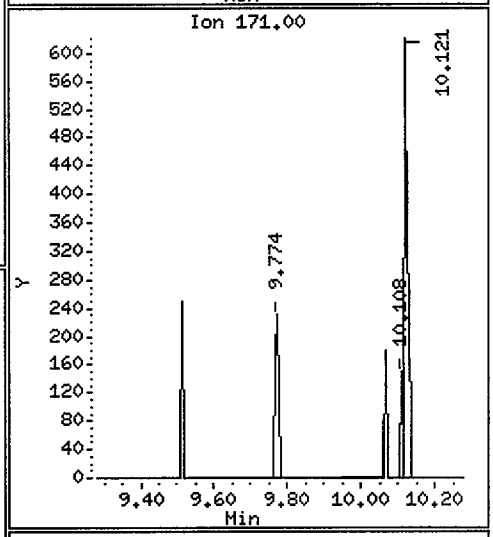


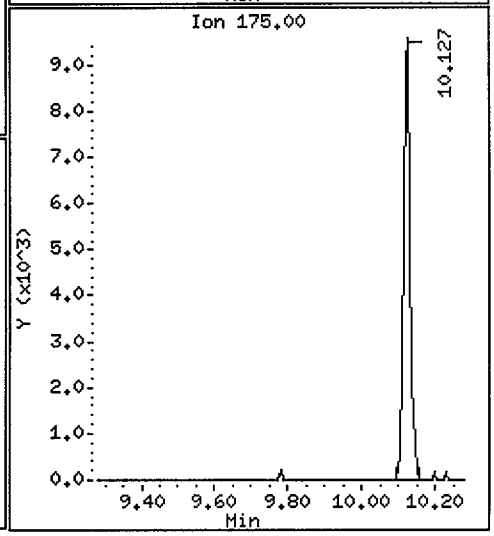












Data File: /var/chem/gcms/mz.i/Z040506.b/h2hqt1aa.d
Report Date: 07-Apr-2006 13:58

STL Knoxville

Volatile Organics by GC/MS

Data file : /var/chem/gcms/mz.i/Z040506.b/h2hqt1aa.d
Lab Smp Id: H2HQT1AA Client Smp ID: G-2991-R2-SCRUBBER
Inj Date : 05-APR-2006 22:30
Operator : 063605 Inst ID: mz.i
Smp Info : H2HQT1AA,1,0,,
Misc Info : Z040506,8260B_LM,focus.sub
Comment : Volatile Organics by GC/MS
Method : /var/chem/gcms/mz.i/Z040506.b/8260B_LM.m
Meth Date : 06-Apr-2006 17:11 tillerm Quant Type: ISTD
Cal Date : 24-MAR-2006 13:51 Cal File: icvzc248.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: focus.sub
Target Version: 3.50
Processing Host: qmidhp01

Concentration Formula: Amt * DF * Uf*Vt/(Vo*1000) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Unit Correction factor
Vt	25000.00000	Sample Volume Purged
Vo	25.00000	Sample Volume Used

Cpnd Variable Local Compound Variable

ISTD	RT	HEIGHT	AMOUNT
* 1 Fluorobenzene	5.667	1047822	10.000

	CONCENTRATIONS				QUANT		
RT	HEIGHT	ON-COL(ug/L)	FINAL(ug/L)	QUAL	LIBRARY	LIB ENTRY	CPND #
Carbon dioxide				CAS #: 124-38-9			
0.910	1250238	11.9317785	11.932	5	NIST05.1	80	1

Air

MT 4/7/2006

Data File: /var/chem/gcms/mz.i/Z040506.b/h2hqt1aa.d

Date : 05-APR-2006 22:30

Client ID: G-2991-R2-SCRUBBER

Instrument: mz.i

Sample Info: H2HQT1AA,1,0,,

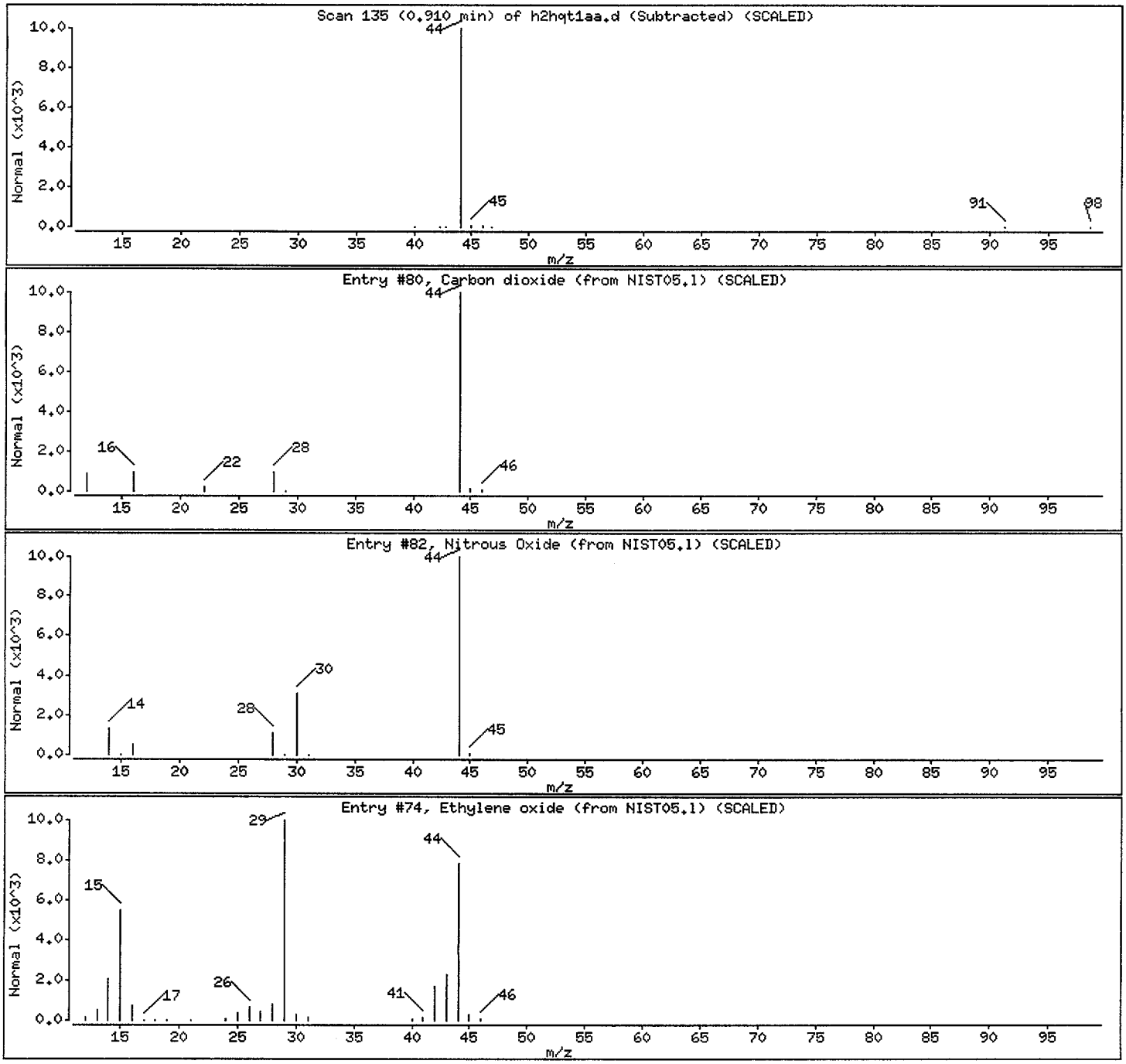
Purge Volume: 25.0

Operator: 063605

Column phase: J+W 624

Column diameter: 0.18

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Carbon dioxide	124-38-9	NIST05.l	80	5	CO2	44
Nitrous Oxide	10024-97-2	NIST05.l	82	3	N2O	44
Ethylene oxide	75-21-8	NIST05.l	74	2	C2H4O	44



STL Knoxville - ACS

Client Sample ID: G-2995-R2-POTW DISCHARGE

GC/MS Volatiles

Lot-Sample #...: H6D030205-008 **Work Order #...:** H2HQW1AA **Matrix.....:** WATER
Date Sampled...: 03/29/06 **Date Received..:** 04/02/06
Prep Date.....: 04/05/06 **Analysis Date..:** 04/05/06
Prep Batch #...: 6095253
Dilution Factor: 1 **Method.....:** SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	**3.7 J**	**10**	**ug/L**	**1.4**
Acrylonitrile	ND	20	ug/L	2.7
Benzene	ND	1.0	ug/L	0.10
Bromobenzene	ND	1.0	ug/L	0.11
Bromochloromethane	ND	1.0	ug/L	0.24
Bromodichloromethane	**0.89 J**	**1.0**	**ug/L**	**0.10**
Bromoform	**2.0**	**1.0**	**ug/L**	**0.14**
Bromomethane	ND	2.0	ug/L	0.38
2-Butanone	ND	5.0	ug/L	0.75
n-Butylbenzene	ND	1.0	ug/L	0.10
sec-Butylbenzene	ND	1.0	ug/L	0.10
tert-Butylbenzene	ND	1.0	ug/L	0.24
Carbon disulfide	ND	1.0	ug/L	0.10
Carbon tetrachloride	ND	1.0	ug/L	0.12
Chlorobenzene	ND	1.0	ug/L	0.10
Chlorodibromomethane	**1.3**	**1.0**	**ug/L**	**0.20**
Chloroethane	ND	2.0	ug/L	0.24
Chloroform	**0.15 J**	**1.0**	**ug/L**	**0.10**
Chloromethane	ND	2.0	ug/L	0.12
2-Chlorotoluene	ND	1.0	ug/L	0.24
4-Chlorotoluene	ND	1.0	ug/L	0.21
1,2-Dibromo-3-chloro-propane	ND	2.0	ug/L	0.45
1,2-Dibromoethane	ND	1.0	ug/L	0.24
Dibromomethane	ND	1.0	ug/L	0.21
1,2-Dichlorobenzene	ND	1.0	ug/L	0.10
1,3-Dichlorobenzene	ND	1.0	ug/L	0.10
1,4-Dichlorobenzene	ND	1.0	ug/L	0.12
Dichlorodifluoromethane	ND	2.0	ug/L	0.15
1,1-Dichloroethane	ND	1.0	ug/L	0.10
1,2-Dichloroethane	ND	1.0	ug/L	0.10
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.12
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.10
1,1-Dichloroethene	ND	1.0	ug/L	0.10
1,2-Dichloropropane	ND	1.0	ug/L	0.10
1,3-Dichloropropane	ND	1.0	ug/L	0.17
2,2-Dichloropropane	ND	1.0	ug/L	0.11
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.10
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.11

(Continued on next page)

STL Knoxville - ACS

Client Sample ID: G-2995-R2-POTW DISCHARGE

GC/MS Volatiles

Lot-Sample #...: H6D030205-008 **Work Order #...:** H2HQW1AA **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1-Dichloropropene	ND	1.0	ug/L	0.10
Ethylbenzene	ND	1.0	ug/L	0.10
Hexachlorobutadiene	ND	2.0	ug/L	0.12
2-Hexanone	ND	5.0	ug/L	0.76
Iodomethane	ND	2.0	ug/L	0.12
Isopropylbenzene	ND	1.0	ug/L	0.10
p-Isopropyltoluene	ND	1.0	ug/L	0.10
Methylene chloride	**2.0**	**2.0**	**ug/L**	**0.23**
4-Methyl-2-pentanone	ND	5.0	ug/L	0.40
Naphthalene	ND	1.0	ug/L	0.17
n-Propylbenzene	ND	1.0	ug/L	0.10
Styrene	ND	1.0	ug/L	0.10
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	0.12
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.15
Tetrachloroethene	ND	1.0	ug/L	0.10
Tetrahydrofuran	ND	4.0	ug/L	1.2
Toluene	**0.43 J**	**1.0**	**ug/L**	**0.10**
1,2,3-Trichlorobenzene	ND	1.0	ug/L	0.23
1,2,4-Trichloro-benzene	ND	1.0	ug/L	0.15
1,1,1-Trichloroethane	ND	1.0	ug/L	0.10
1,1,2-Trichloroethane	ND	1.0	ug/L	0.25
Trichloroethene	ND	1.0	ug/L	0.10
Trichlorofluoromethane	ND	2.0	ug/L	0.12
1,2,3-Trichloropropane	ND	1.0	ug/L	0.36
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	1.0	ug/L	0.13
1,2,4-Trimethylbenzene	ND	1.0	ug/L	0.11
1,3,5-Trimethylbenzene	ND	1.0	ug/L	0.10
Vinyl acetate	ND	2.0	ug/L	0.24
Vinyl chloride	ND	1.0	ug/L	0.24
m-Xylene & p-Xylene	ND	1.0	ug/L	0.20
o-Xylene	ND	1.0	ug/L	0.14
Xylenes (total)	ND	1.0	ug/L	0.30

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	109	(79 - 120)
1,2-Dichloroethane-d4	110	(71 - 127)
Toluene-d8	101	(80 - 120)
Bromofluorobenzene	93	(69 - 126)

NOTE(S):

J Estimated result. Result is less than RL.

STL Knoxville - ACS

G-2995-R2-POTW DISCHARGE

GC/MS Volatiles

Lot-Sample #: H6D030205-008 **Work Order #:** H2HQW1AA **Matrix:** WATER

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT	RETENTION TIME	UNITS
None				ug/L

Data File: /var/chem/gcms/mz.i/Z040506.b/h2hqw1aa.d
Report Date: 07-Apr-2006 13:59

STL Knoxville

Volatile Organics by GC/MS

Data file : /var/chem/gcms/mz.i/Z040506.b/h2hqw1aa.d
Lab Smp Id: H2HQW1AA Client Smp ID: G-2995-R2-POTW DISC
Inj Date : 05-APR-2006 22:53
Operator : 063605 Inst ID: mz.i
Smp Info : H2HQW1AA,1,0,,
Misc Info : Z040506,8260B_LM,focus.sub
Comment : Volatile Organics by GC/MS
Method : /var/chem/gcms/mz.i/Z040506.b/8260B_LM.m
Meth Date : 06-Apr-2006 17:11 tillerm Quant Type: ISTD
Cal Date : 24-MAR-2006 13:51 Cal File: icvzc248.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: focus.sub
Target Version: 3.50
Processing Host: qmidhp01

Concentration Formula: Amt * DF * Uf*Vt/(Vo*1000) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Unit Correction factor
Vt	25000.00000	Sample Volume Purged
Vo	25.00000	Sample Volume Used

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
* 1 Fluorobenzene	96	5.667	5.667	(1.000)	930597	10.0000	
* 2 Chlorobenzene-d5	119	8.933	8.933	(1.000)	173717	10.0000	
* 3 1,4 Dichlorobenzene-d4	152	11.482	11.488	(1.000)	221212	10.0000	
$ 5 1,2-Dichloroethane-d4	65	5.229	5.229	(0.923)	141759	10.9936	10.994
$ 4 Dibromofluoromethane	113	4.821	4.821	(0.851)	161985	10.8631	10.863
$ 6 Toluene-d8	98	7.455	7.455	(0.835)	773658	10.1359	10.136
$ 7 4-Bromofluorobenzene	95	10.120	10.126	(0.881)	207711	9.31051	9.3105
22 Acetone	43	2.114	2.126	(0.373)	2376	3.67062	3.6706
27 Methylene Chloride	84	2.509	2.503	(0.443)	30426	1.95493	1.9549
40 Chloroform (ccc)	83	4.614	4.608	(0.814)	4992	0.14847	0.14846
50 Bromodichloromethane	83	6.695	6.683	(1.181)	2646	0.88613	0.88613(MH)
54 Toluene (ccc)	91	7.522	7.522	(0.842)	42082	0.42566	0.42566
61 Chlorodibromomethane	129	8.349	8.349	(0.935)	4518	1.26499	1.2650
69 Bromoform (spcc)	173	9.785	9.779	(1.095)	3206	1.95240	1.9524

Data File: /chem/gcms/mz.i/Z040506.b/h2hqw1aa.d
Report Date: 05-Apr-2006 23:11

STL Knoxville

Volatile Organics by GC/MS

Data file : /chem/gcms/mz.i/Z040506.b/h2hqw1aa.d
Lab Smp Id: H2HQW1AA Client Smp ID: G-2995-R2-POTW DISC
Inj Date : 05-APR-2006 22:53
Operator : 063605 Inst ID: mz.i
Smp Info : H2HQW1AA,1,0,,
Misc Info : Z040506,8260B_LM,focus.sub
Comment : Volatile Organics by GC/MS
Method : /var/chem/gcms/mz.i/Z040506.b/8260B_LM.m
Meth Date : 05-Apr-2006 15:47 tillerm Quant Type: ISTD
Cal Date : 24-MAR-2006 13:51 Cal File: icvzc248.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: focus.sub
Target Version: 3.50
Processing Host: qmidhp01

Concentration Formula: Amt * DF * Uf*Vt/(Vo*1000) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Unit Correction factor
Vt	25000.00000	Sample Volume Purged
Vo	25.00000	Sample Volume Used

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
* 1 Fluorobenzene	96	5.667	5.667	(1.000)	930597	10.0000	
* 2 Chlorobenzene-d5	119	8.933	8.933	(1.000)	173717	10.0000	
* 3 1,4 Dichlorobenzene-d4	152	11.482	11.488	(1.000)	221212	10.0000	
$ 5 1,2-Dichloroethane-d4	65	5.229	5.229	(0.923)	141759	10.9936	10.994
$ 4 Dibromofluoromethane	113	4.821	4.821	(0.851)	161985	10.8631	10.863
$ 6 Toluene-d8	98	7.455	7.455	(0.835)	773658	10.1359	10.136
$ 7 4-Bromofluorobenzene	95	10.120	10.126	(0.881)	207711	9.31050	9.3105
15 Bromomethane	94	1.426	1.414	(0.252)	217	~~0.85622~~	~~0.85622~~
22 Acetone	43	2.114	2.126	(0.373)	2376	3.67075	3.6707
23 *Iodomethane	142	2.181	2.181	(0.385)	562	~~0.54539~~	~~0.54539~~
27 Methylene Chloride	84	2.509	2.503	(0.443)	30426	1.95499	1.9550
39 *THF	42	4.328	4.529	(0.764)	1377	~~0.62388~~	~~0.62388~~
40 Chloroform (ccc)	83	4.614	4.608	(0.814)	4992	0.14847	0.14847
45 1,2-Dichloroethane	62	5.667	5.326	(1.000)	15000	~~0.77191~~	~~0.77191~~

MT 4/7/06

Data File: /chem/gcms/mz.i/Z040506.b/h2hqw1aa.d
Report Date: 05-Apr-2006 23:11

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)
50 Bromodichloromethane	83	6.676	6.683	(1.178)	1194	0.80276	0.80276
53 4-Methyl-2-pentanone	43	7.455	7.376	(1.316)	7368	~~0.90672~~	~~0.90672~~
54 Toluene (ccc)	91	7.522	7.522	(0.842)	42082	0.42566	0.42566
61 Chlorodibromomethane	129	8.349	8.349	(0.935)	4518	1.26502	1.2650
69 Bromoform (spcc)	173	9.785	9.779	(1.095)	3206	1.95245	1.9524

MM 4/7/06

Data File: /chem/gcms/mz.i/Z040506.b/h2hqw1aa.d
Report Date: 05-Apr-2006 23:11

STL Knoxville

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: mz.i
Lab File ID: h2hqw1aa.d
Lab Smp Id: H2HQW1AA
Analysis Type: VOA
Quant Type: ISTD
Operator: 063605
Method File: /var/chem/gcms/mz.i/Z040506.b/8260B_LM.m
Misc Info: Z040506,8260B_LM,focus.sub

Calibration Date: 05-APR-2006
Calibration Time: 14:42
Client Smp ID: G-2995-R2-POTW DISC
Level: LOW
Sample Type: WATER

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	1078707	539354	2157414	930597	-13.73
2 Chlorobenzene-d5	188899	94450	377798	173717	-8.04
3 1,4 Dichlorobenze	220143	110072	440286	221212	0.49

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	5.67	5.17	6.17	5.67	0.00
2 Chlorobenzene-d5	8.93	8.43	9.43	8.93	0.00
3 1,4 Dichlorobenze	11.49	10.99	11.99	11.48	-0.05

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

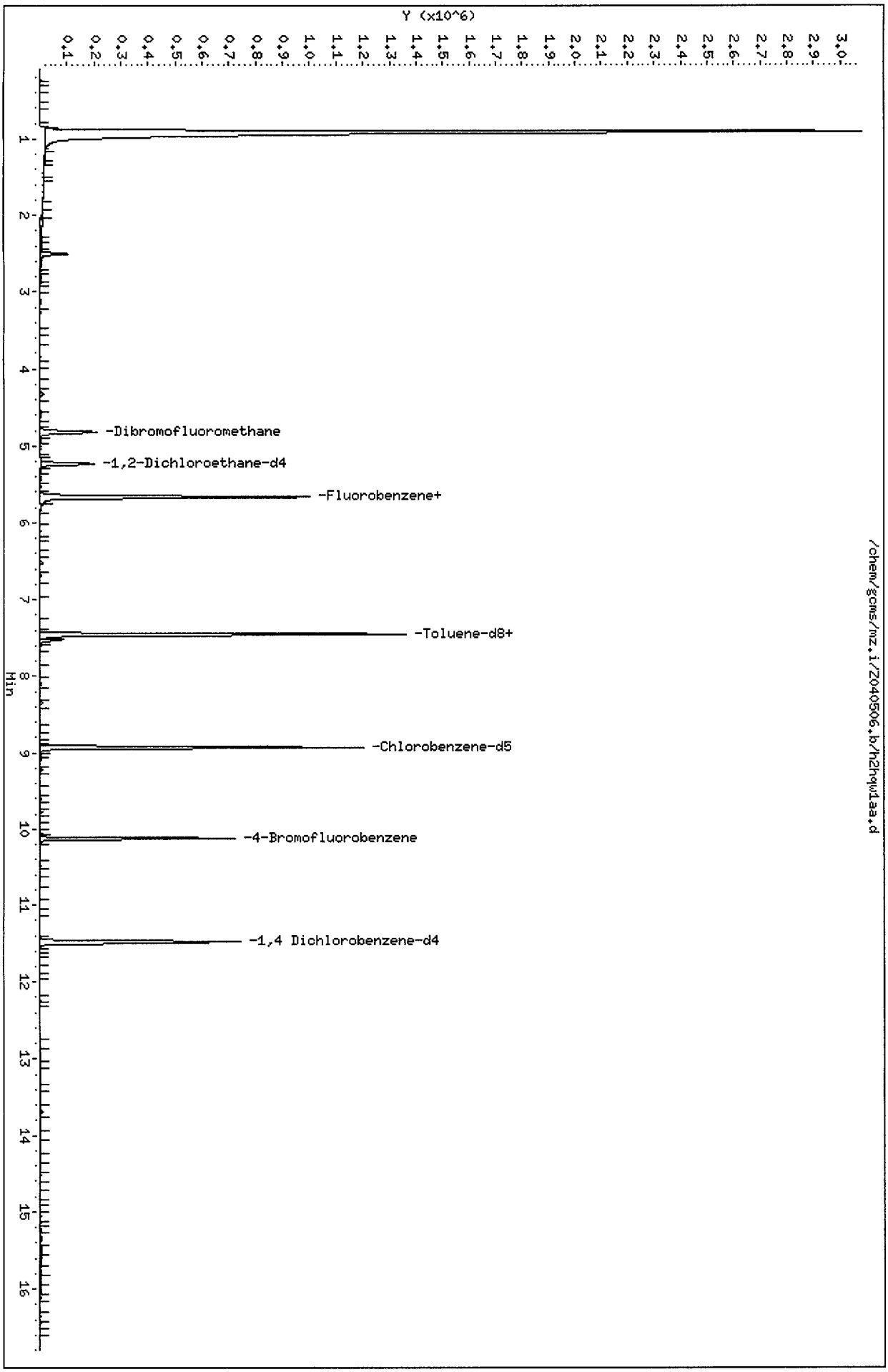
Data File: /chem/gcms/mz.i/Z040506.b/h2hqw1aa.d
Report Date: 05-Apr-2006 23:11

STL Knoxville

RECOVERY REPORT

Client Name: STL Knoxville - ACS
Sample Matrix: LIQUID
Lab Smp Id: H2HQW1AA
Level: LOW
Data Type: MS DATA
SpikeList File: allcmpds.spk
Sublist File: focus.sub
Client SDG: H6D030205
Fraction: VOA
Client Smp ID: G-2995-R2-POTW DISC
Operator: 063605
SampleType: SAMPLE
Quant Type: ISTD
Method File: /var/chem/gcms/mz.i/Z040506.b/8260B_LM.m
Misc Info: Z040506,8260B_LM,focus.sub

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
$ 5 1,2-Dichloroethane	10.000	10.994	109.94	71-127
$ 4 Dibromofluorometha	10.000	10.863	108.63	79-120
$ 6 Toluene-d8	10.000	10.136	101.36	80-120
$ 7 4-Bromofluorobenze	10.000	9.3105	93.10	69-126


Data File: /chem/gcms/mz.i/Z040506.b/h2hqw1aa.d
Date : 05-APR-2006 22:53
Client ID: G-2995-R2-POTW DISC
Sample Info: H2HQW1AA,1,0,,
Purge Volume: 25.0
Column phase: J+W 624
Instrument: mz.i
Operator: 063605
Column diameter: 0.18
Y (x10^6)
Min
-Dibromofluoromethane
-1,2-Dichloroethane-d4
-Fluorobenzene+
-Toluene-d8+
-Chlorobenzene-d5
-4-Bromofluorobenzene
-1,4 Dichlorobenzene-d4
/chem/gcms/mz.i/Z040506.b/h2hqw1aa.d

Data File: /chem/gcms/mz.i/Z040506.b/h2hqw1aa.d

Date : 05-APR-2006 22:53

Client ID: G-2995-R2-POTW DISC

Instrument: mz.i

Sample Info: H2HQW1AA,1,0,,

Purge Volume: 25.0

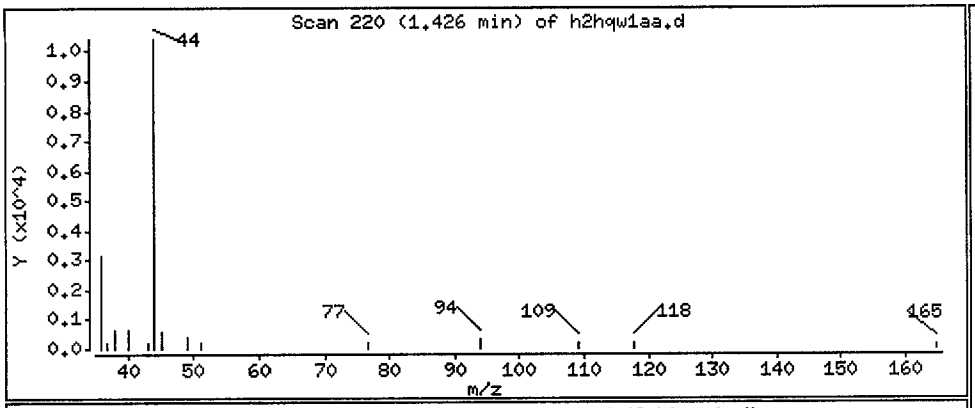
Operator: 063605

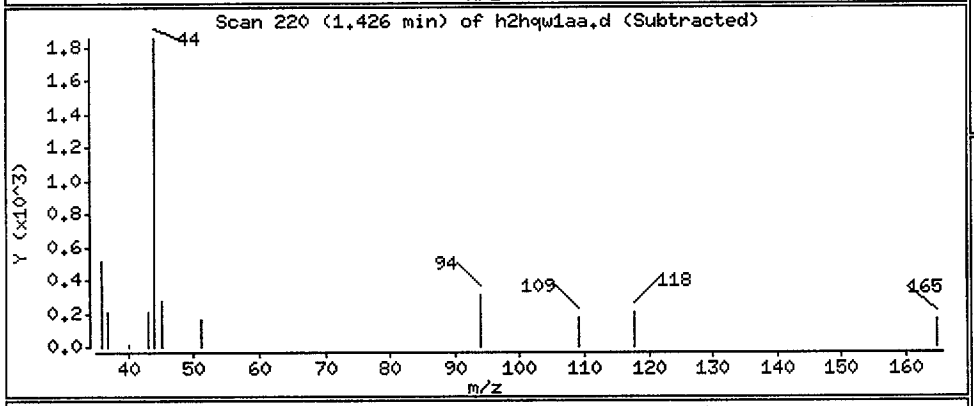
Column phase: J+W 624

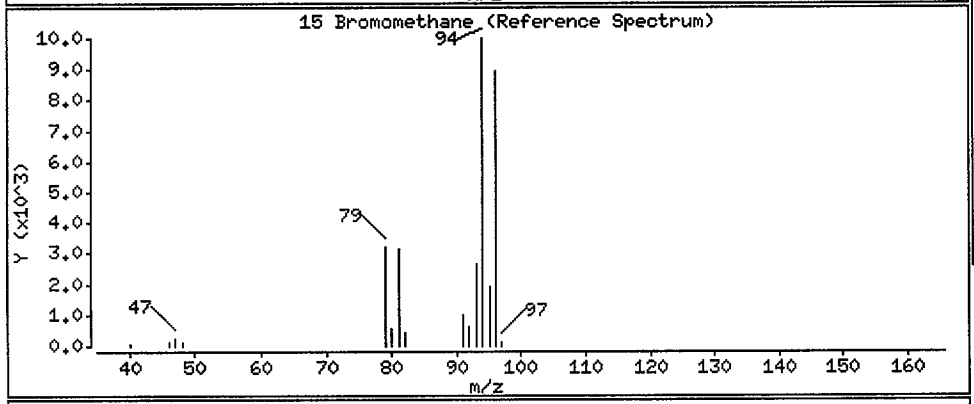
Column diameter: 0.18

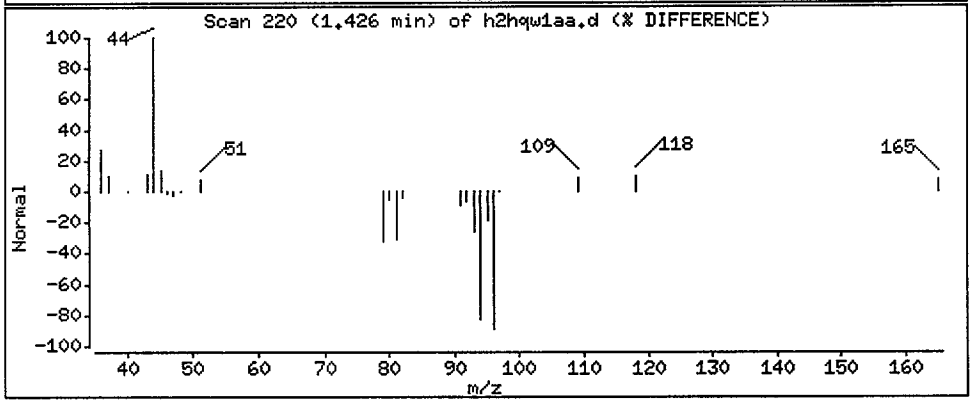
15 Bromomethane

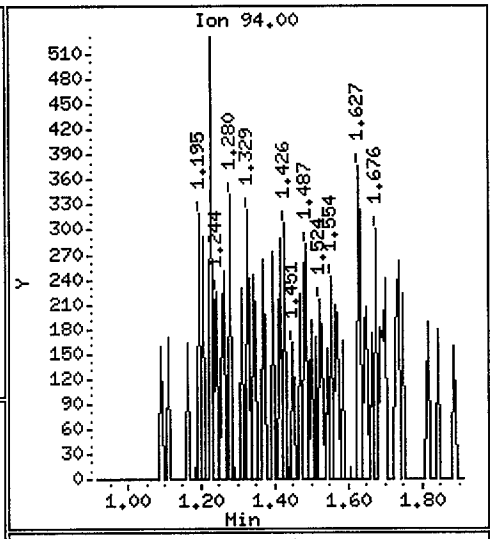
Concentration: 0.85622 ug/L

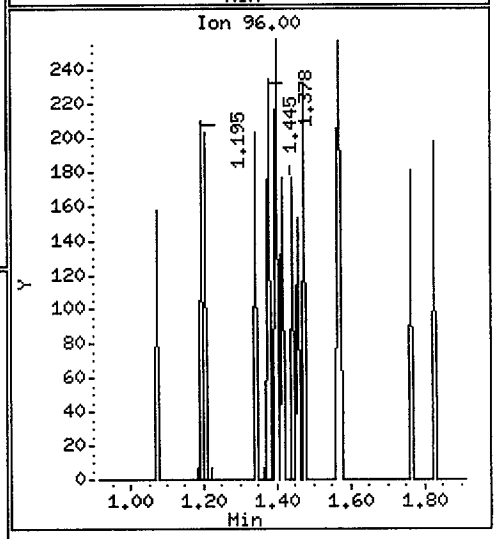












Data File: /chem/gcms/mz.i/Z040506.b/h2hqw1aa.d

Date : 05-APR-2006 22:53

Client ID: G-2995-R2-POTW DISC

Instrument: mz.i

Sample Info: H2HQW1AA,1,0,,

Purge Volume: 25.0

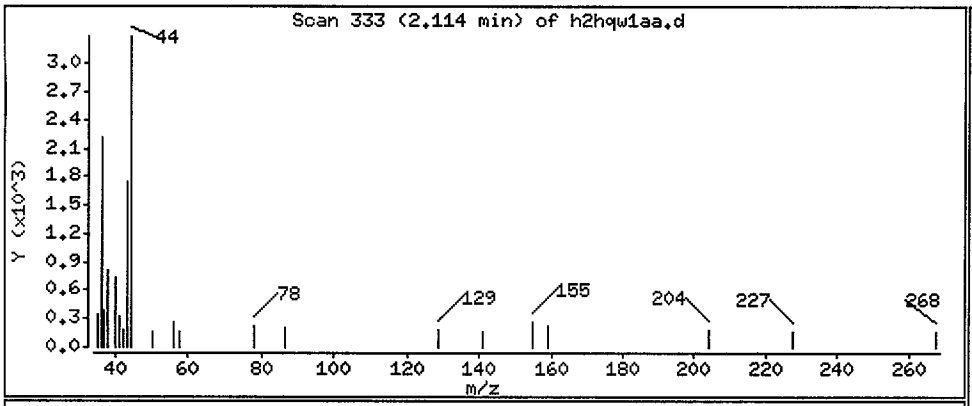
Operator: 063605

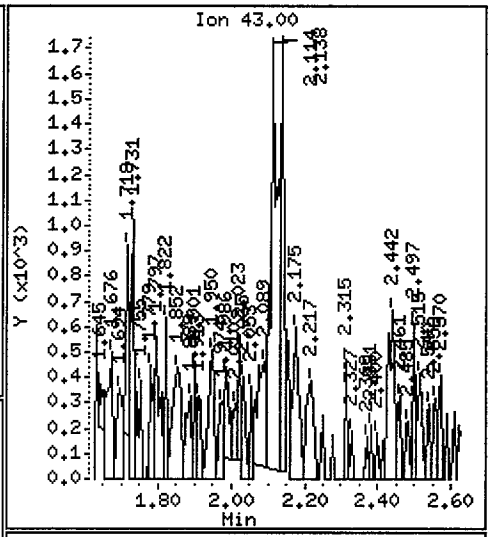
Column phase: J+W 624

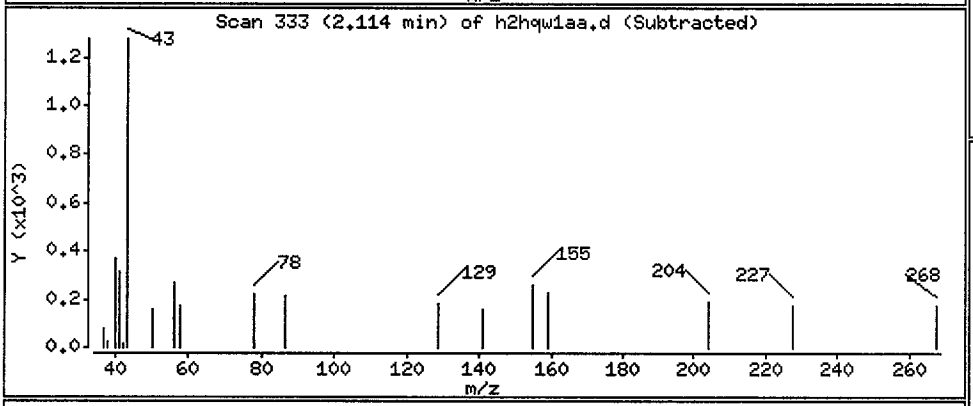
Column diameter: 0.18

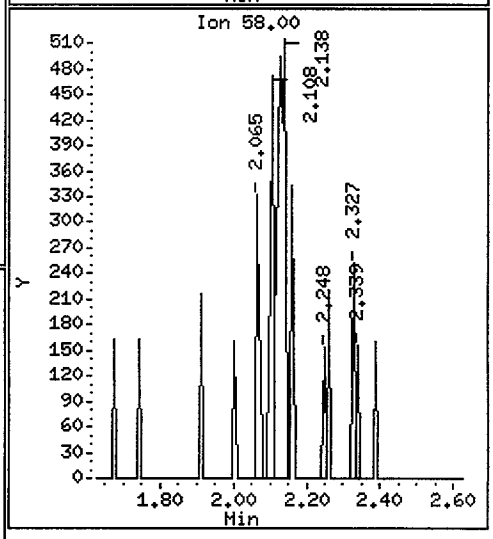
22 Acetone

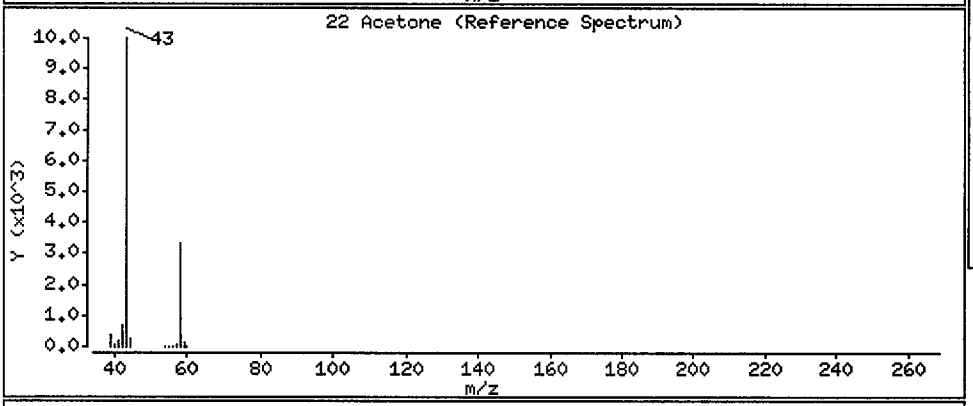
Concentration: 3.6707 ug/L

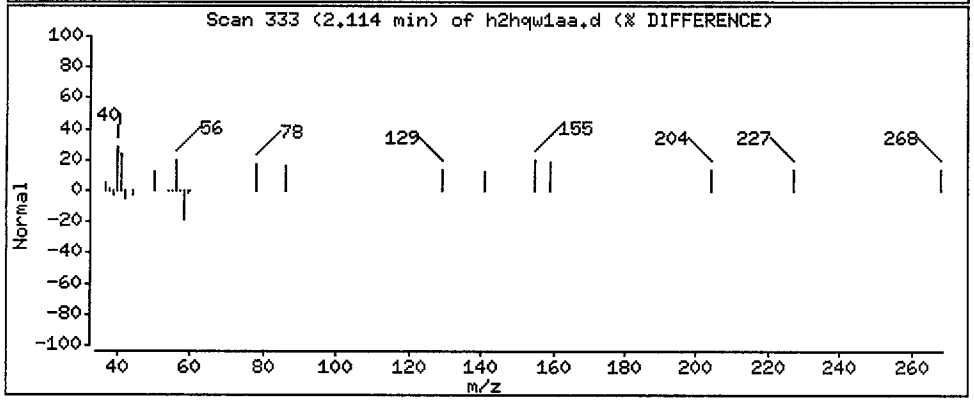












Data File: /chem/gcms/mz.i/Z040506.b/h2hqw1aa.d

Date : 05-APR-2006 22:53

Client ID: G-2995-R2-POTW DISC

Instrument: mz.i

Sample Info: H2HQW1AA,1,0,,

Purge Volume: 25.0

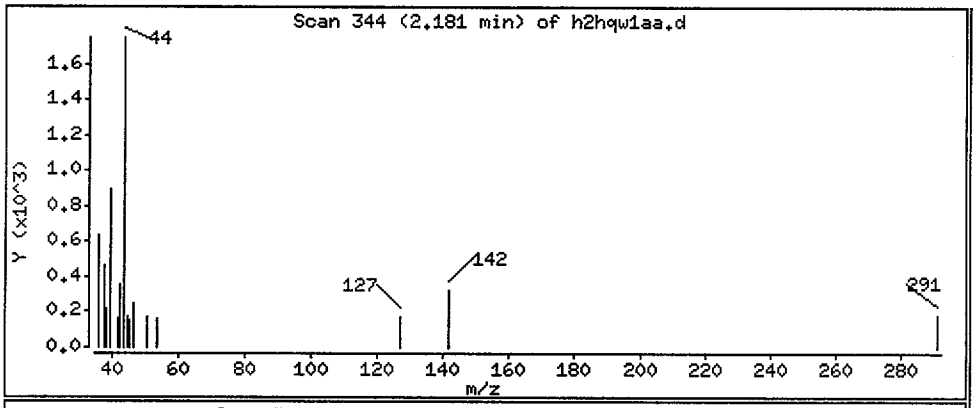
Operator: 063605

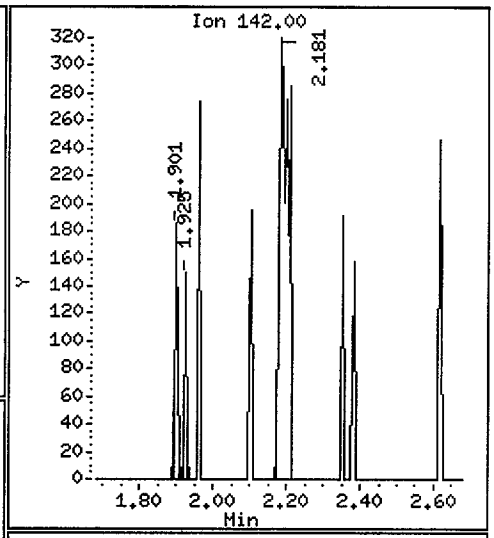
Column phase: J+W 624

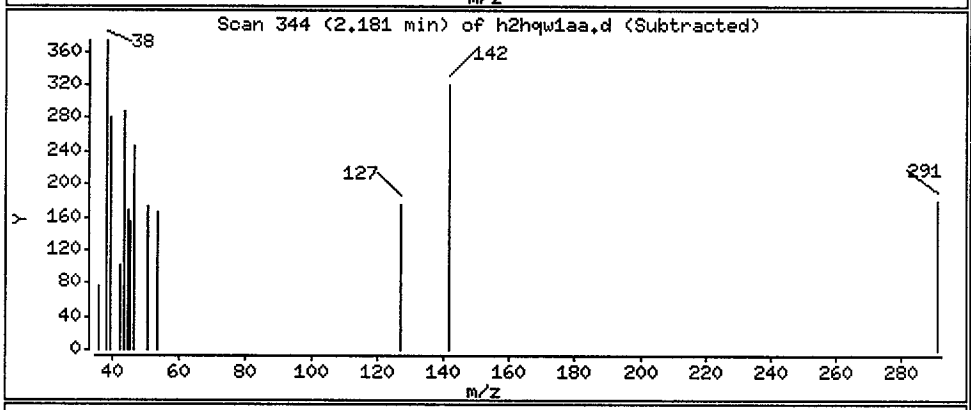
Column diameter: 0.18

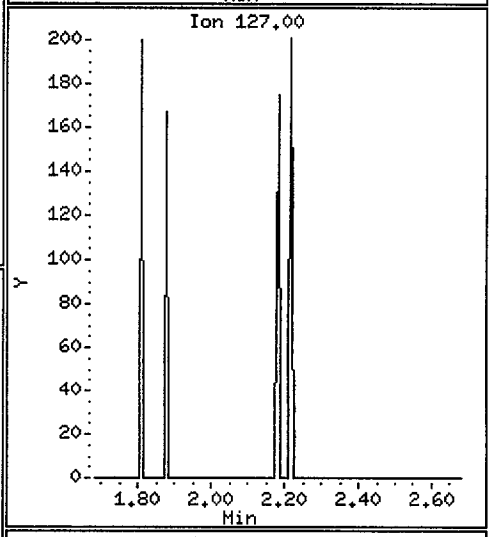
23 *Iodomethane

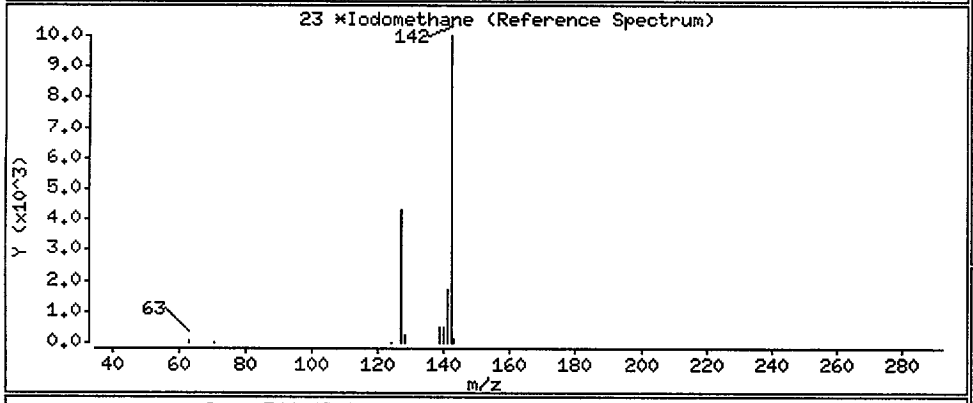
Concentration: 0.54539 ug/L

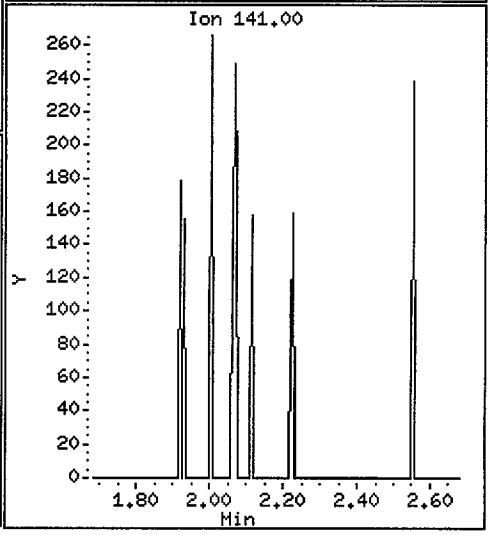


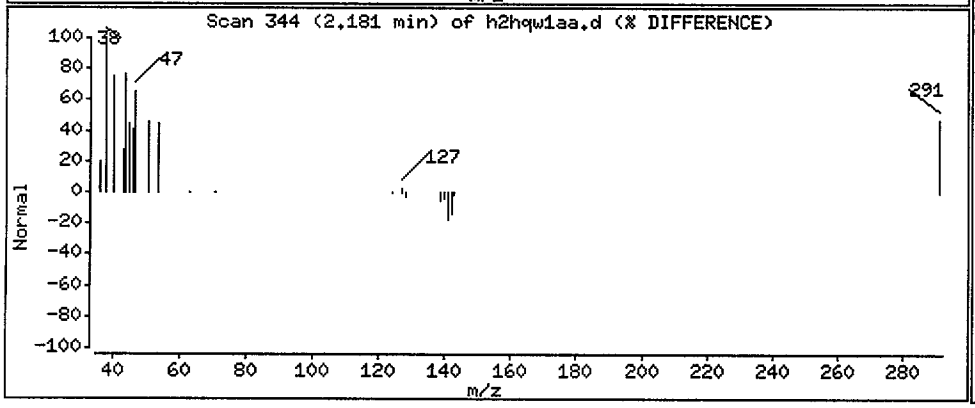












Data File: /chem/gcms/mz.i/Z040506.b/h2hqw1aa.d

Date : 05-APR-2006 22:53

Client ID: G-2995-R2-POTW DISC

Instrument: mz.i

Sample Info: H2HQW1AA,1,0,,

Purge Volume: 25.0

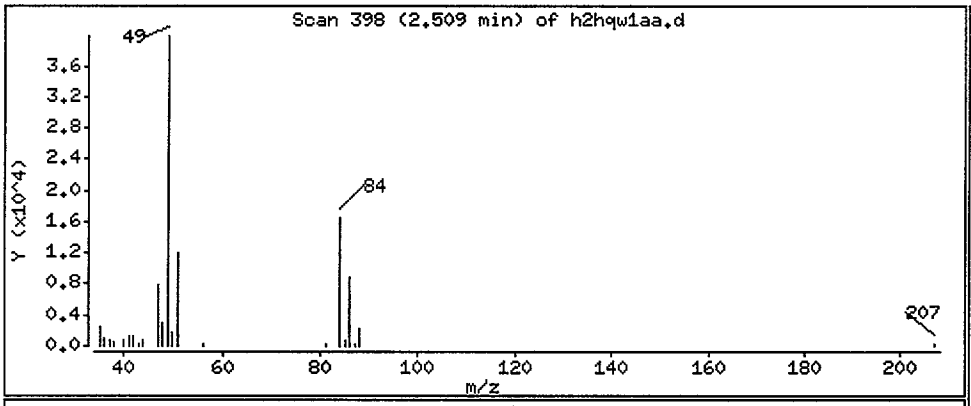
Operator: 063605

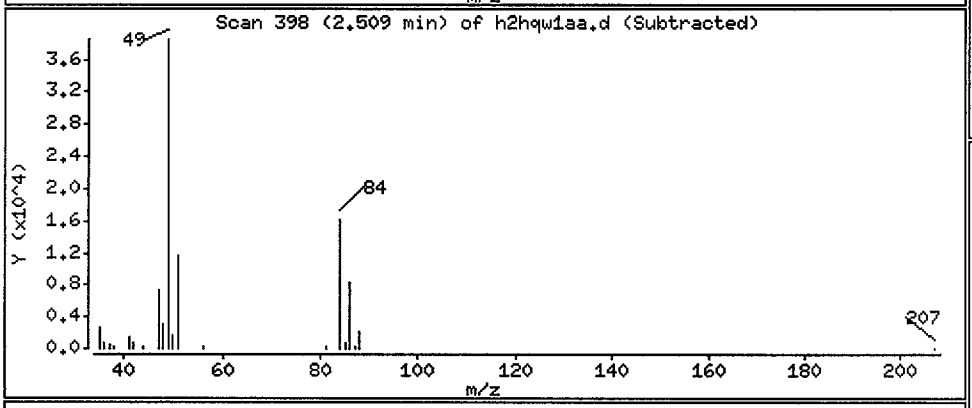
Column phase: J+W 624

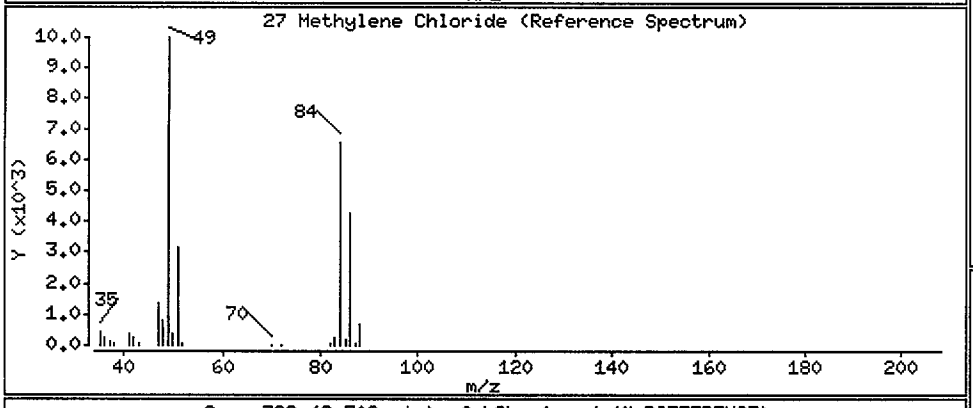
Column diameter: 0.18

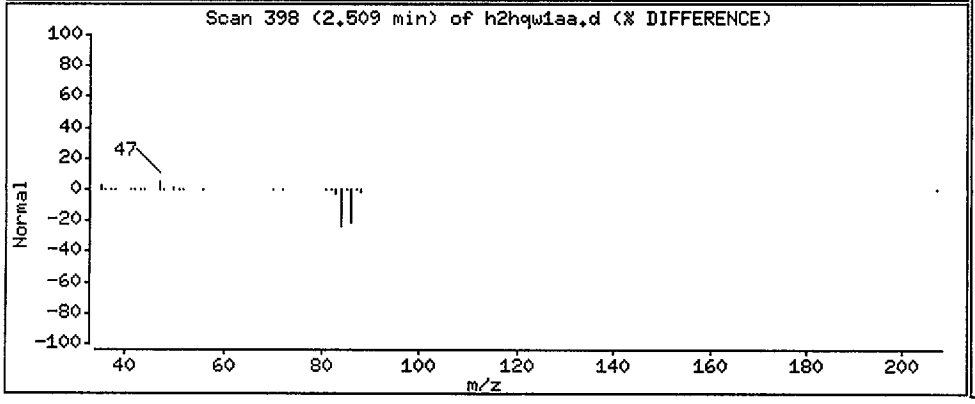
27 Methylene Chloride

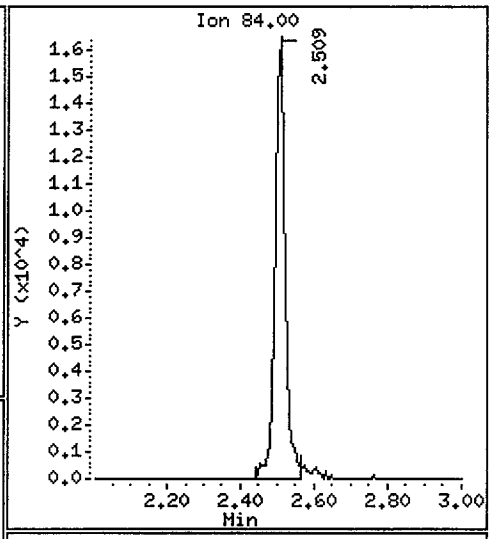
Concentration: 1.9550 ug/L

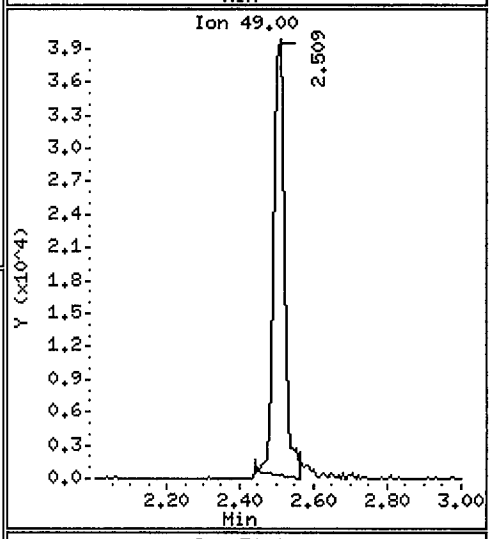


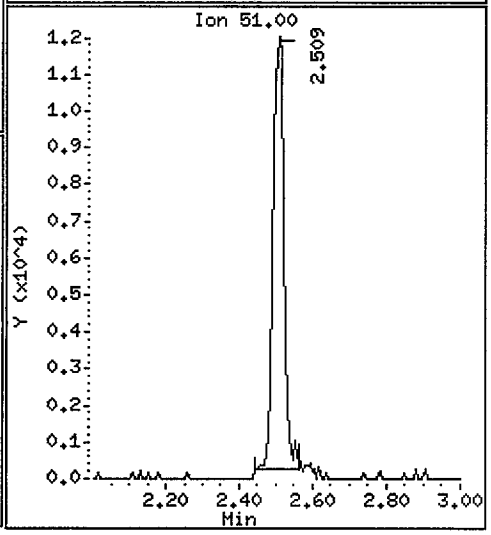












Data File: /chem/gcms/mz.i/Z040506.b/h2hqw1aa.d

Date : 05-APR-2006 22:53

Client ID: G-2995-R2-POTW DISC

Instrument: mz.i

Sample Info: H2HQW1AA,1,0,,

Purge Volume: 25.0

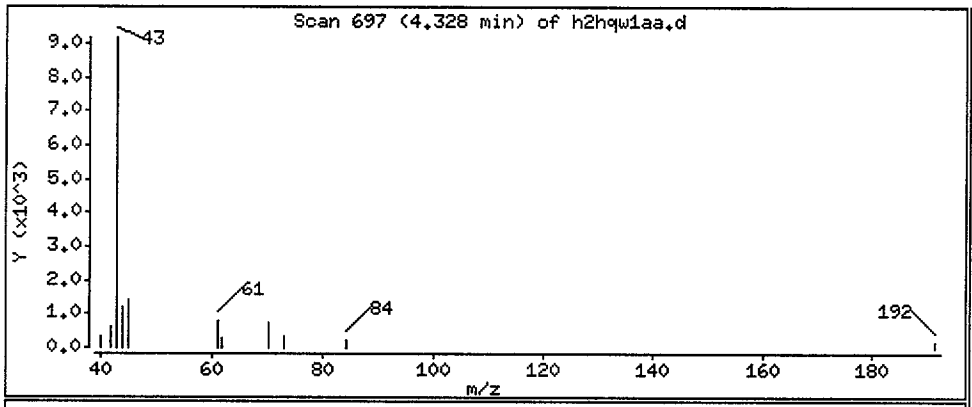
Operator: 063605

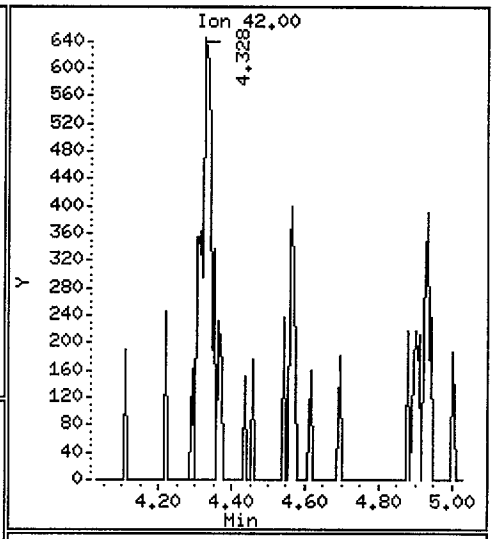
Column phase: J+W 624

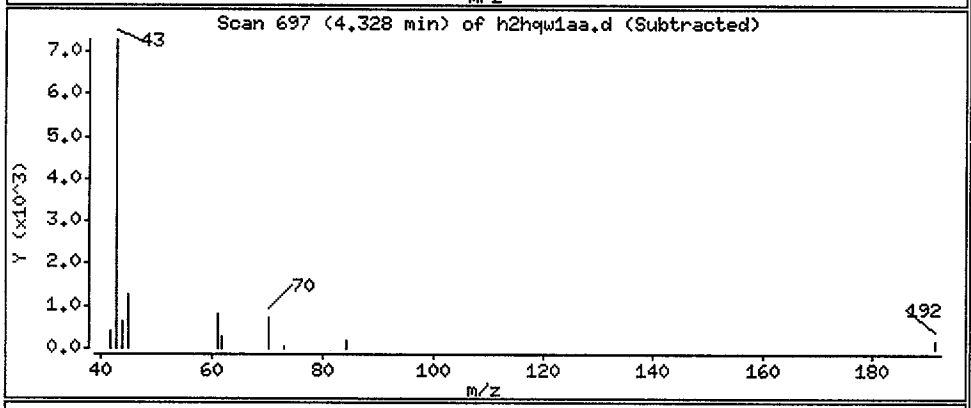
Column diameter: 0.18

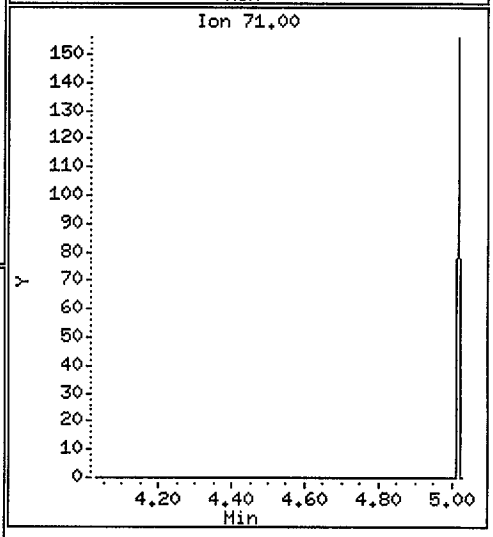
39 *THF

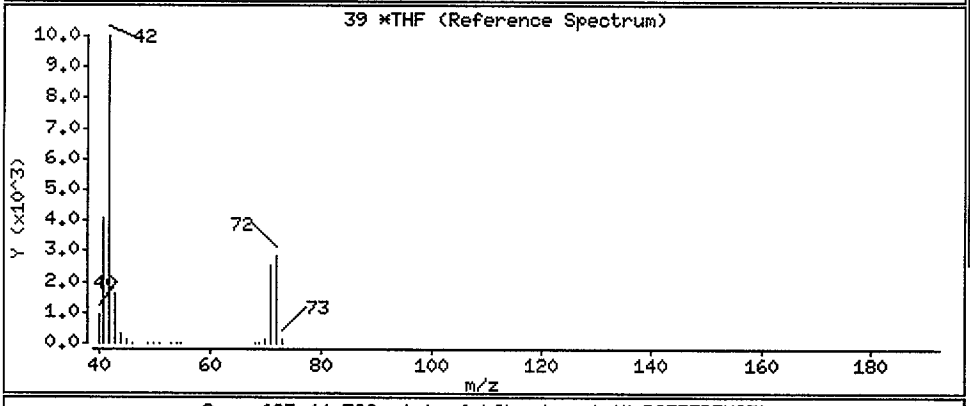
Concentration: 0.62388 ug/L

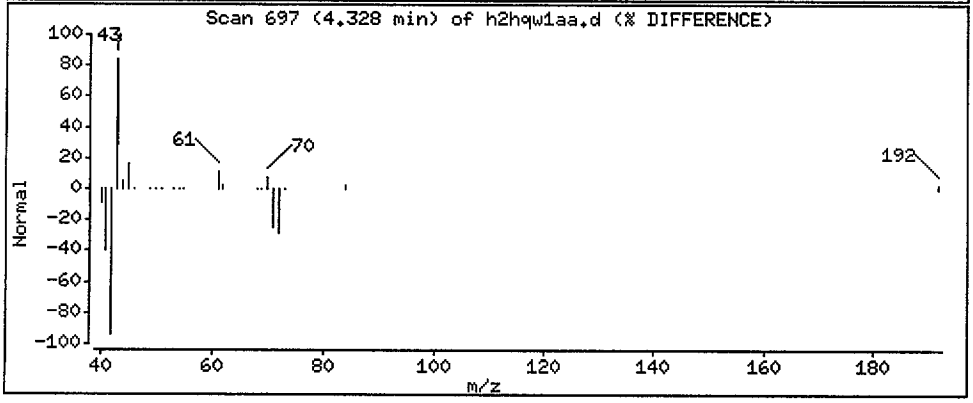












Data File: /chem/gcms/mz.i/Z040506.b/h2hqw1aa.d

Date : 05-APR-2006 22:53

Client ID: G-2995-R2-POTW DISC

Instrument: mz.i

Sample Info: H2HQW1AA,1,0,,

Purge Volume: 25.0

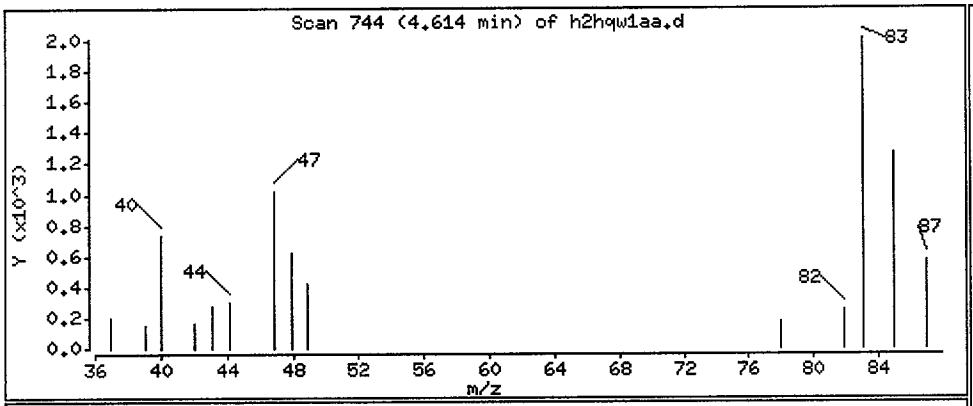
Operator: 063605

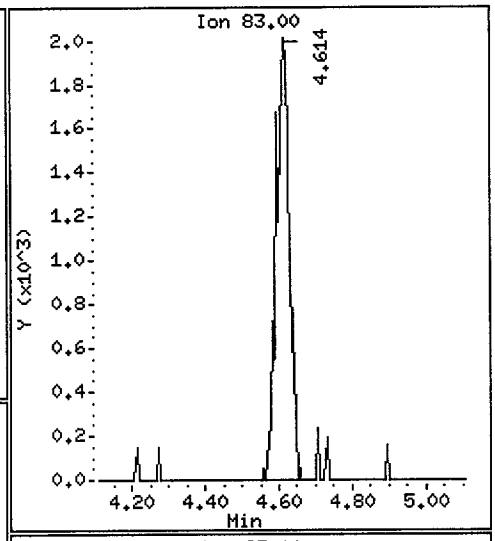
Column phase: J+W 624

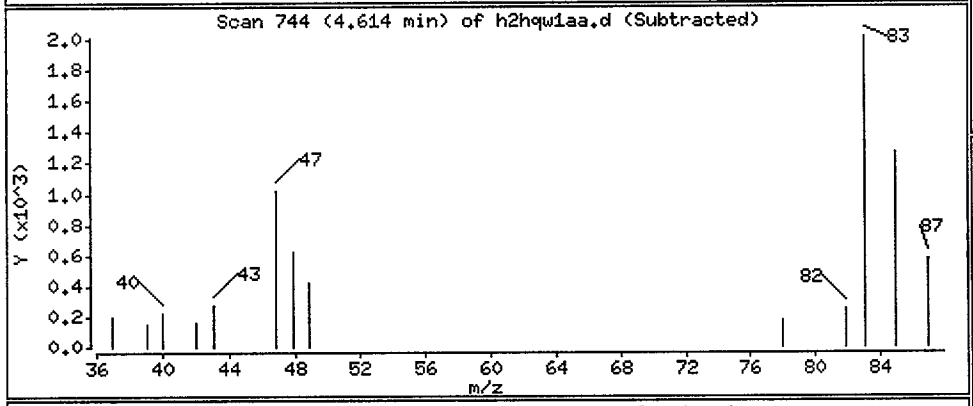
Column diameter: 0.18

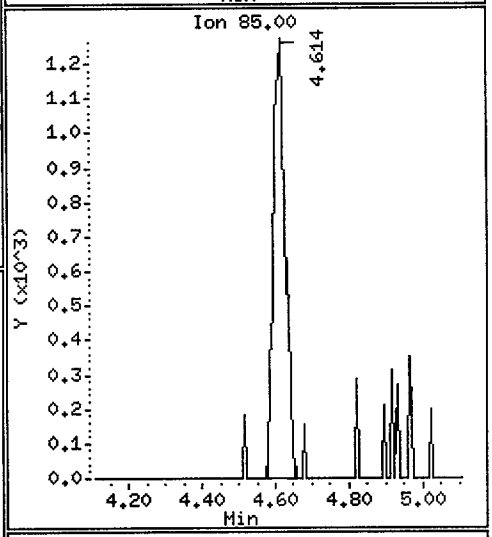
40 Chloroform (ccc)

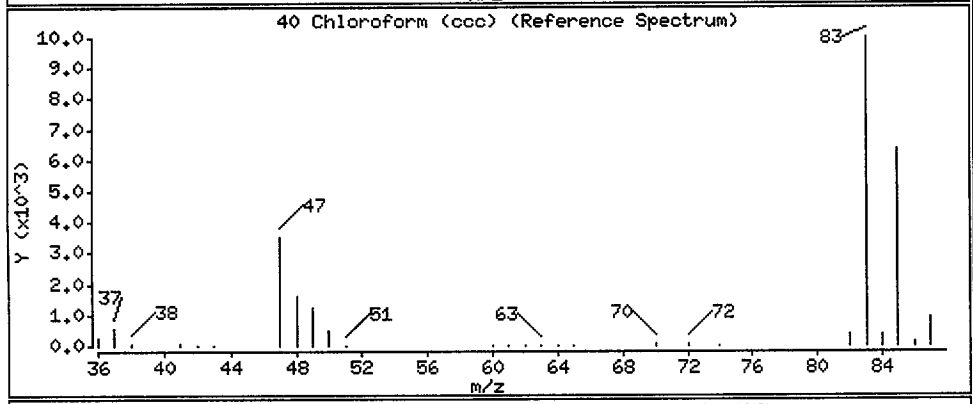
Concentration: 0.14847 ug/L

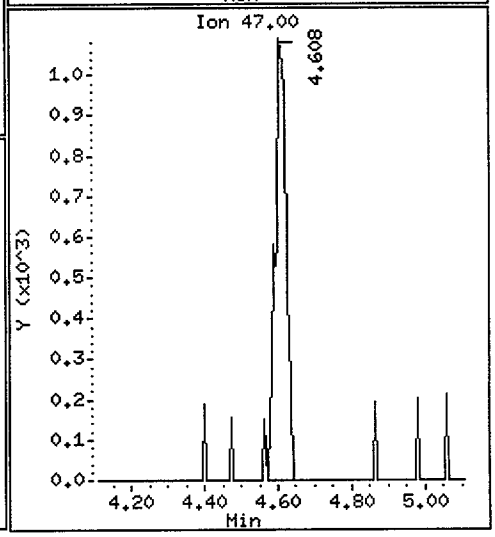


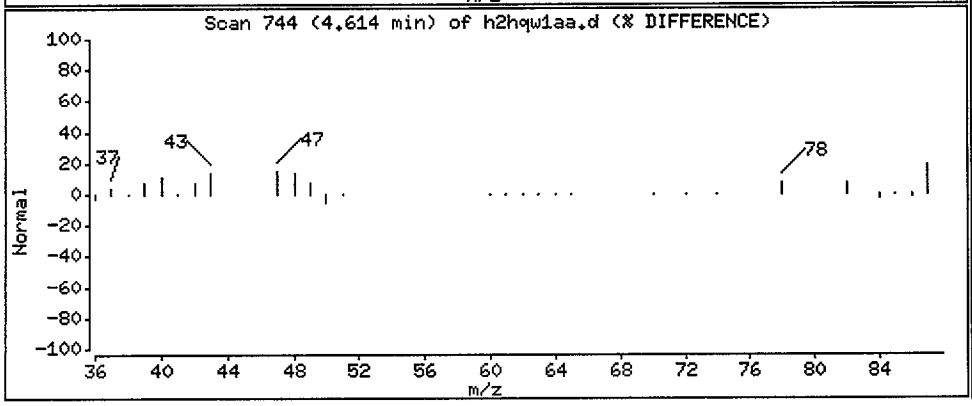












Data File: /chem/gcms/mz.i/Z040506.b/h2hqw1aa.d

Date : 05-APR-2006 22:53

Client ID: G-2995-R2-POTW DISC

Instrument: mz.i

Sample Info: H2HQW1AA,1,0,,

Purge Volume: 25.0

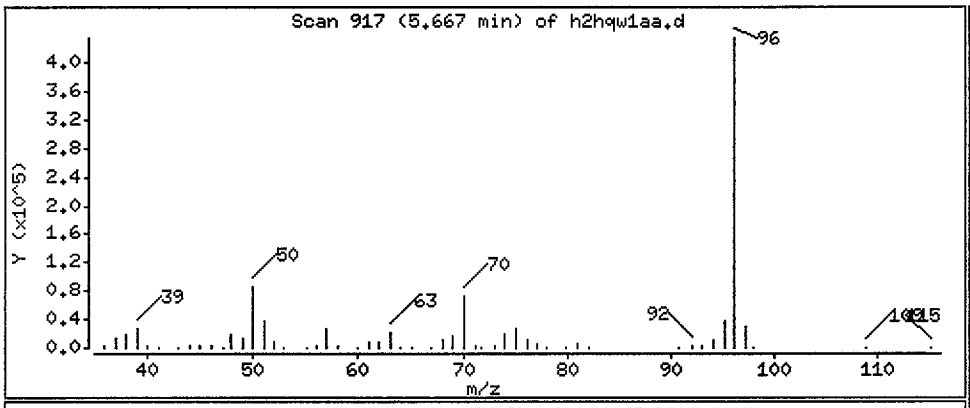
Operator: 063605

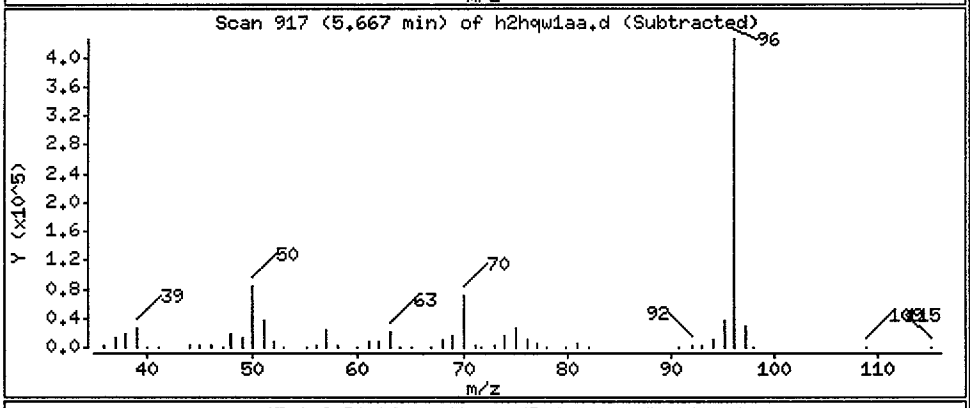
Column phase: J+W 624

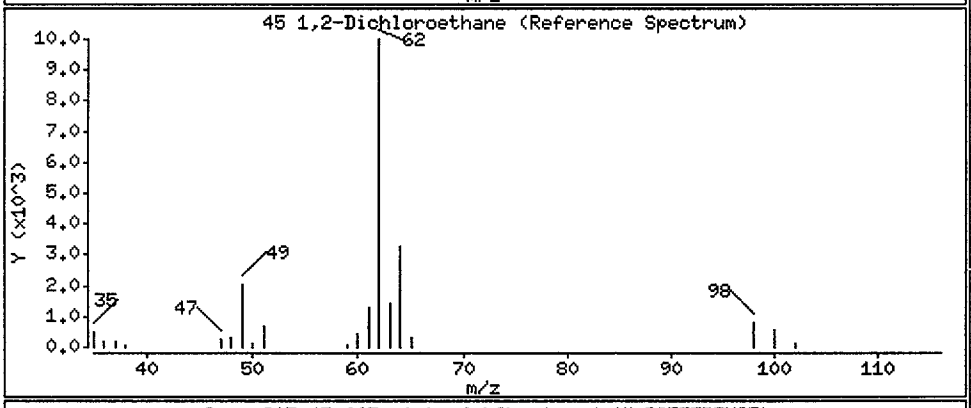
Column diameter: 0.18

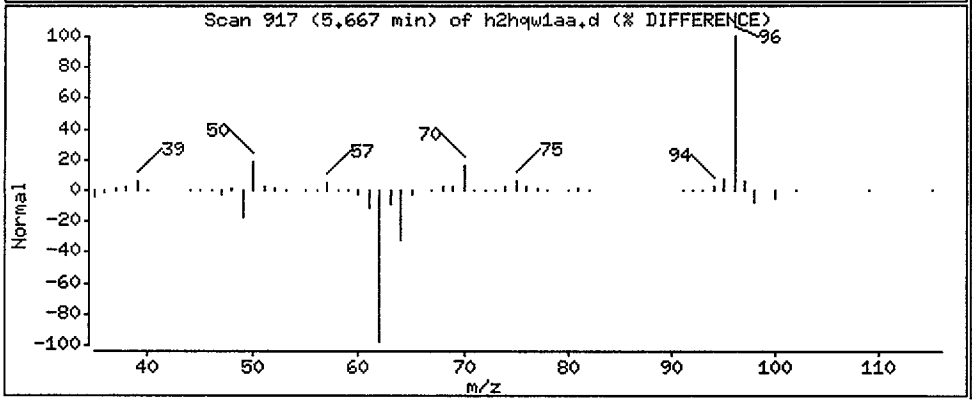
45 1,2-Dichloroethane

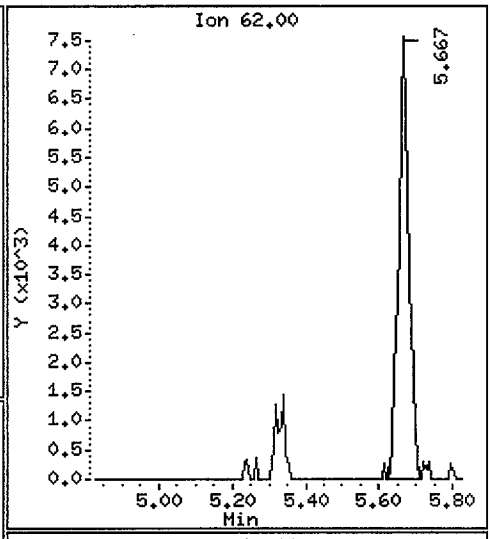
Concentration: 0.77191 ug/L

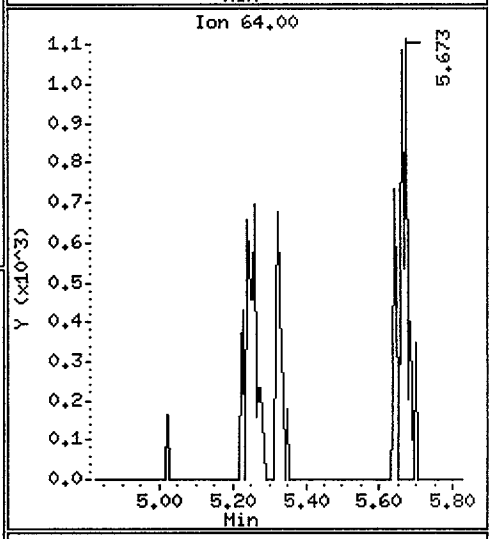


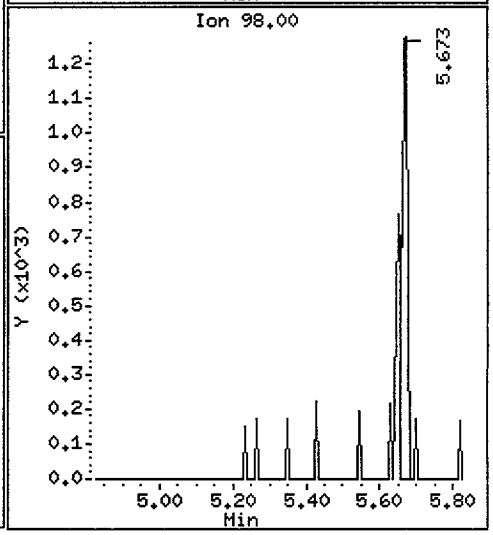












Data File: /var/chem/gcms/mz.i/Z040506.b/h2hqw1aa.d

Date : 05-APR-2006 22:53

Client ID: G-2995-R2-POTW DISC

Instrument: mz.i

Sample Info: H2HQW1AA,1,0,,

Purge Volume: 25.0

Operator: 063605

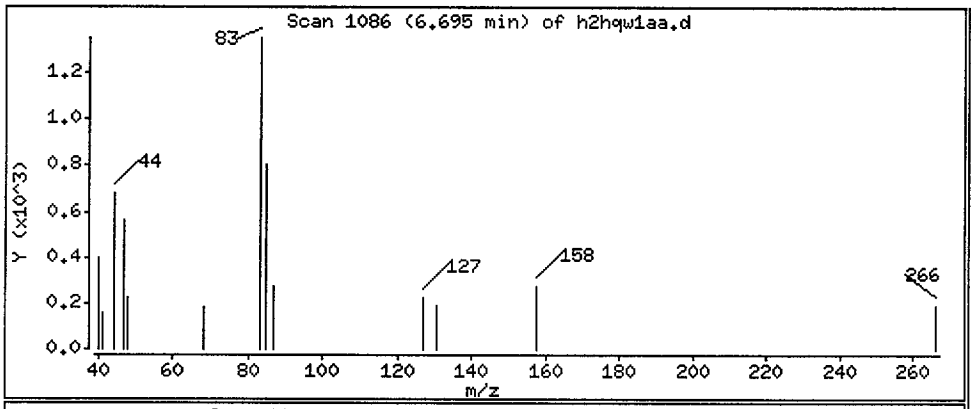
Column phase: J+W 624

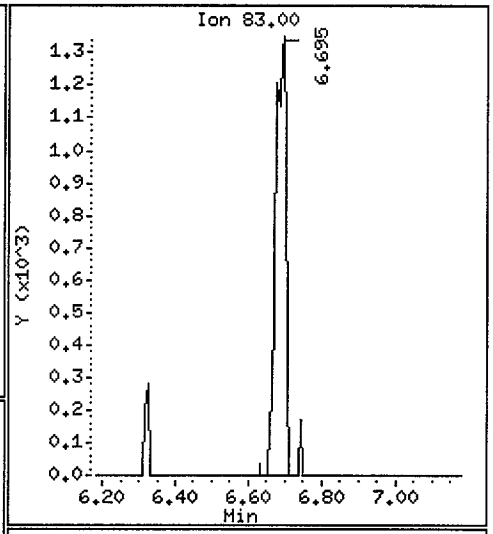
Column diameter: 0.18

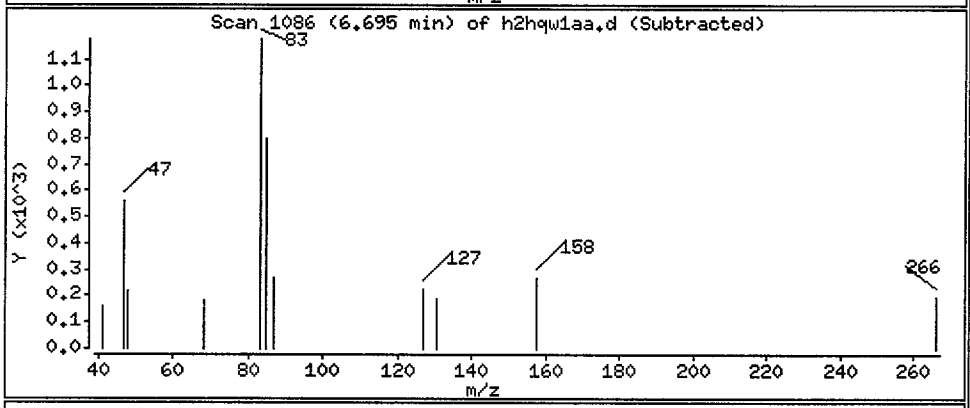
MT 4/4/06 split peak

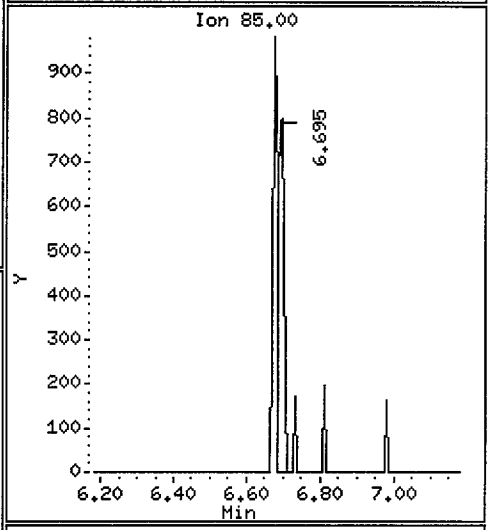
50 Bromodichloromethane

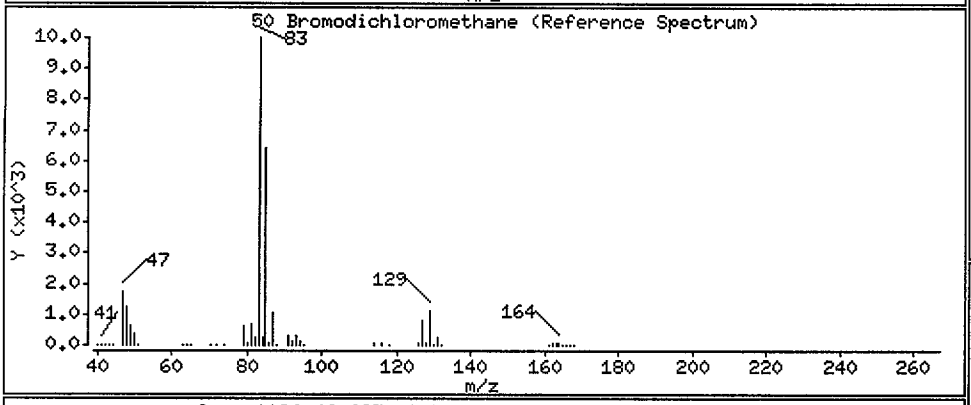
Concentration: 0.88613 ug/L

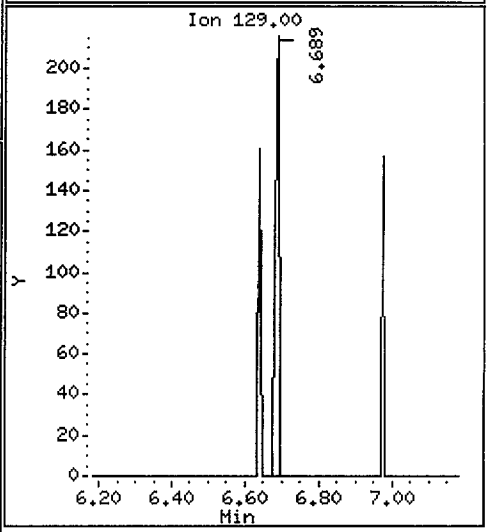


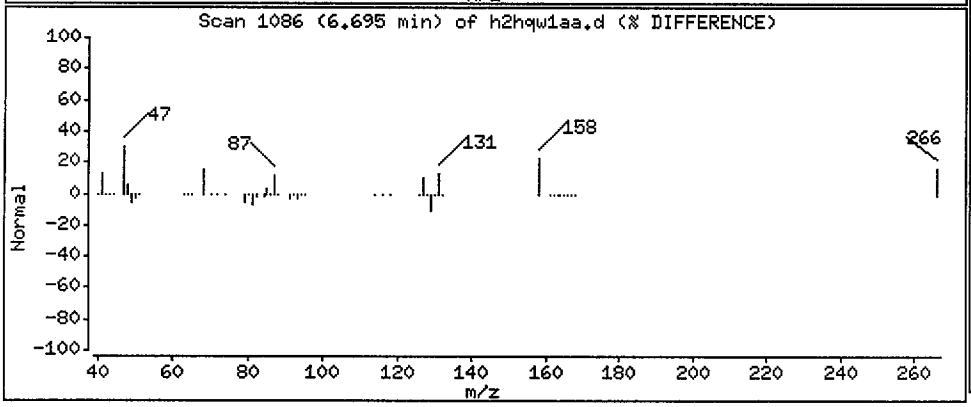












Data File: /chem/gcms/mz.i/Z040506.b/h2hqw1aa.d

Date : 05-APR-2006 22:53

Client ID: G-2995-R2-POTW DISC

Instrument: mz.i

Sample Info: H2HQW1AA,1,0,,

Purge Volume: 25.0

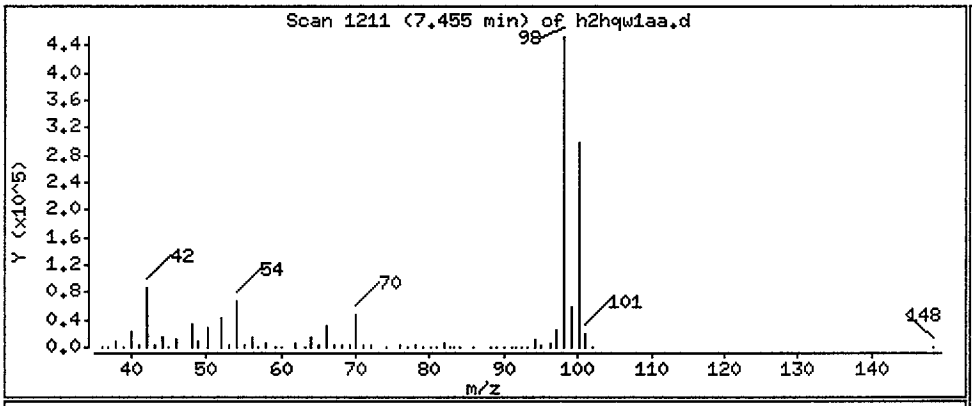
Operator: 063605

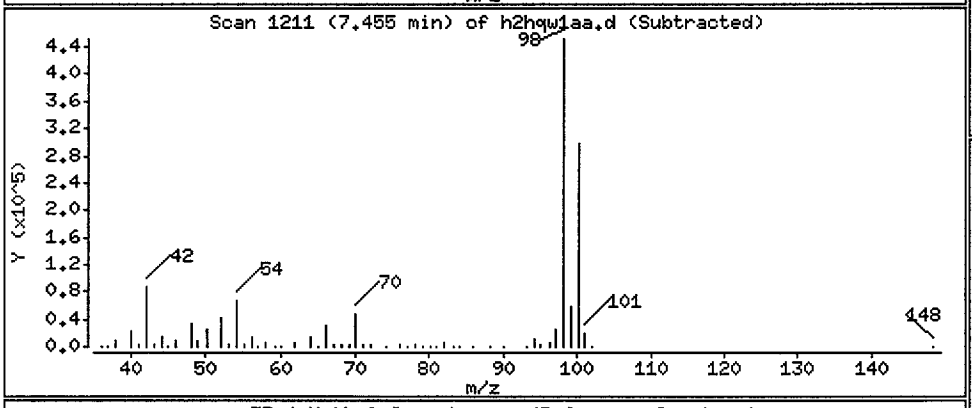
Column phase: J+W 624

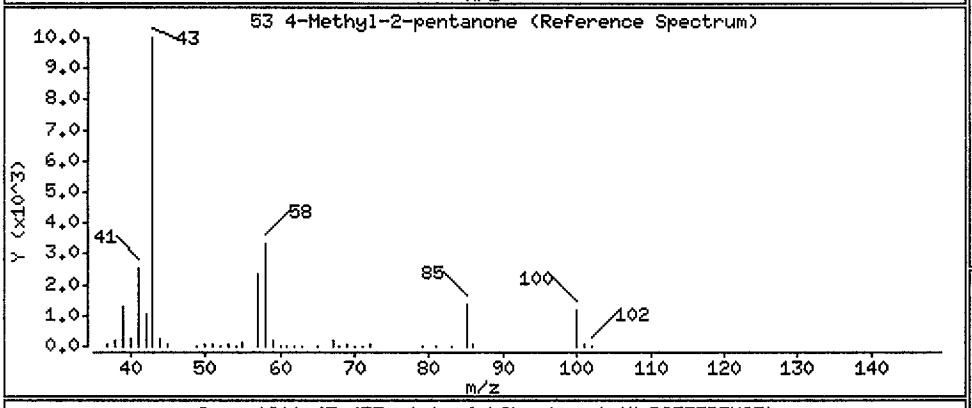
Column diameter: 0.18

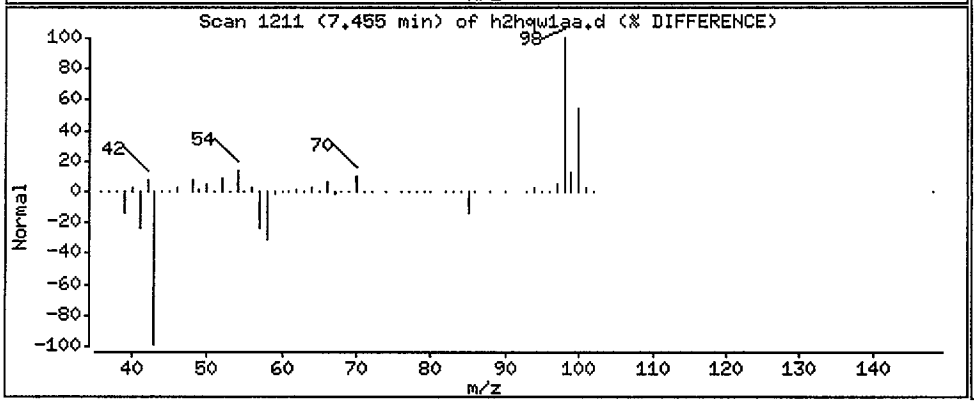
53 4-Methyl-2-pentanone

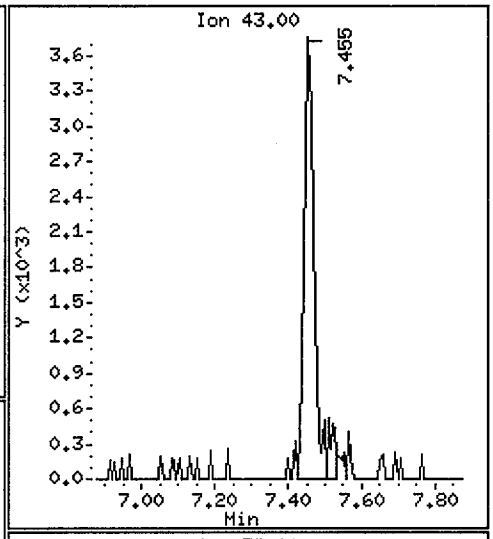
Concentration: 0.90672 ug/L

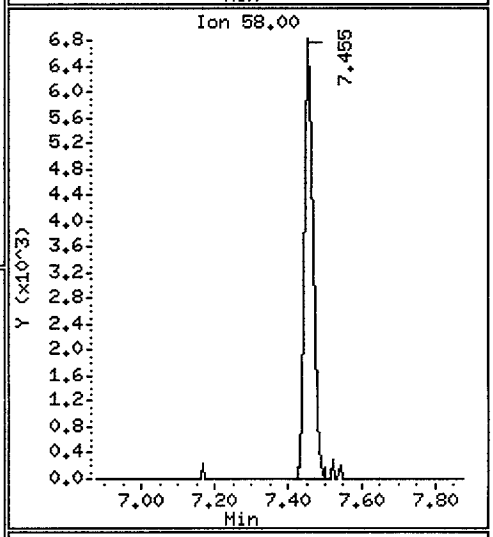


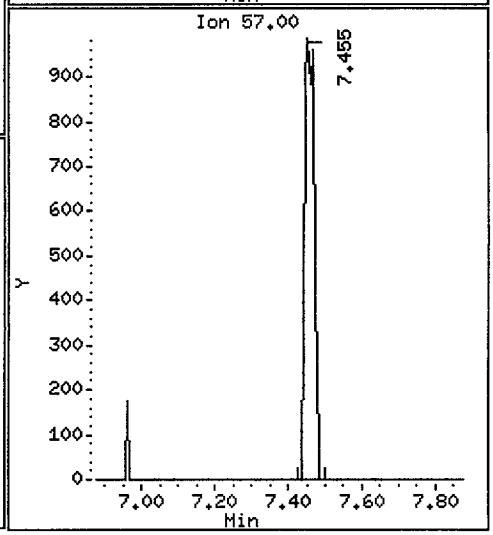












Data File: /chem/gcms/mz.i/Z040506.b/h2hqw1aa.d

Date : 05-APR-2006 22:53

Client ID: G-2995-R2-POTW DISC

Instrument: mz.i

Sample Info: H2HQW1AA,1,0,,

Purge Volume: 25.0

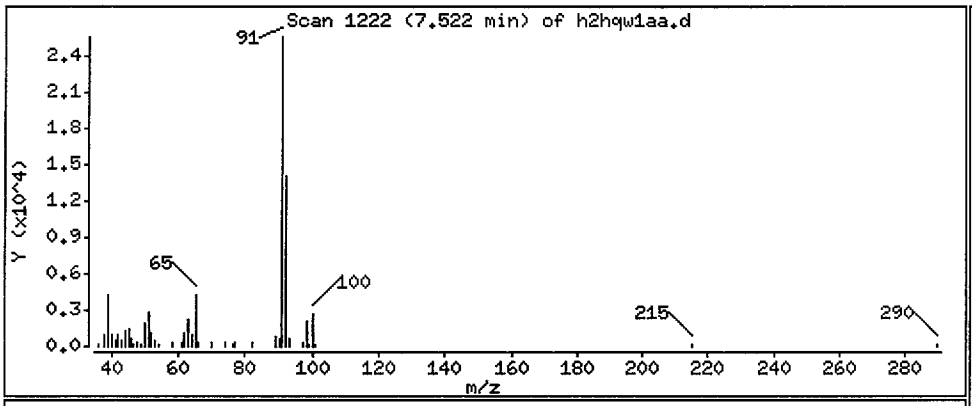
Operator: 063605

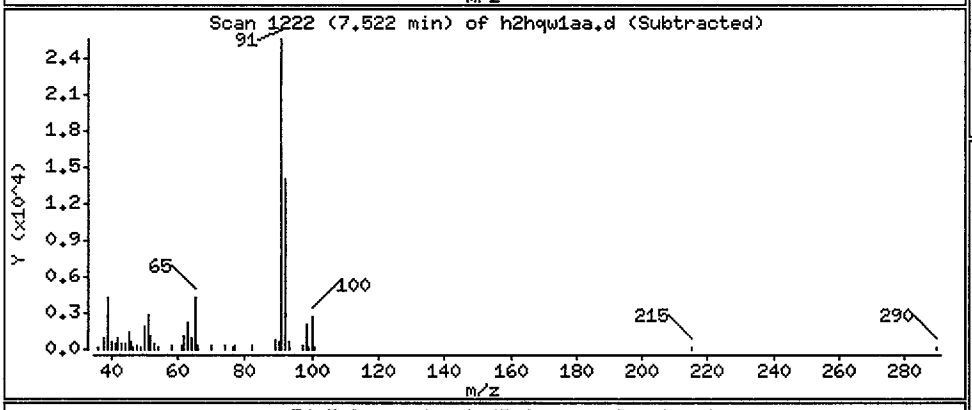
Column phase: J+W 624

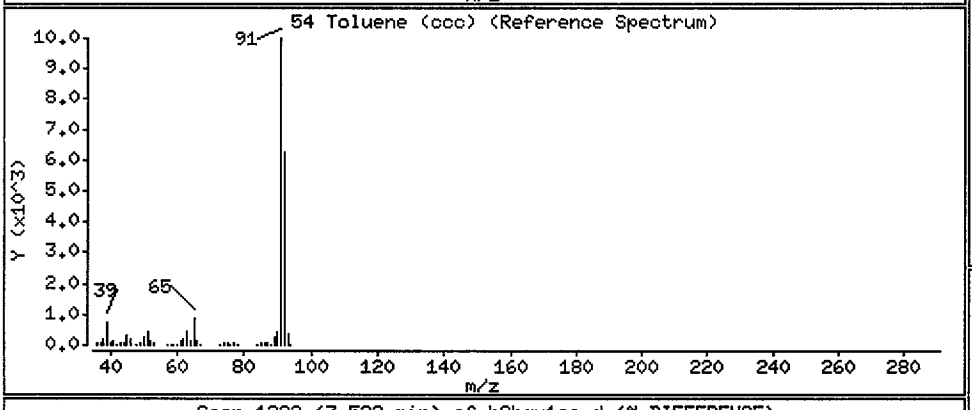
Column diameter: 0.18

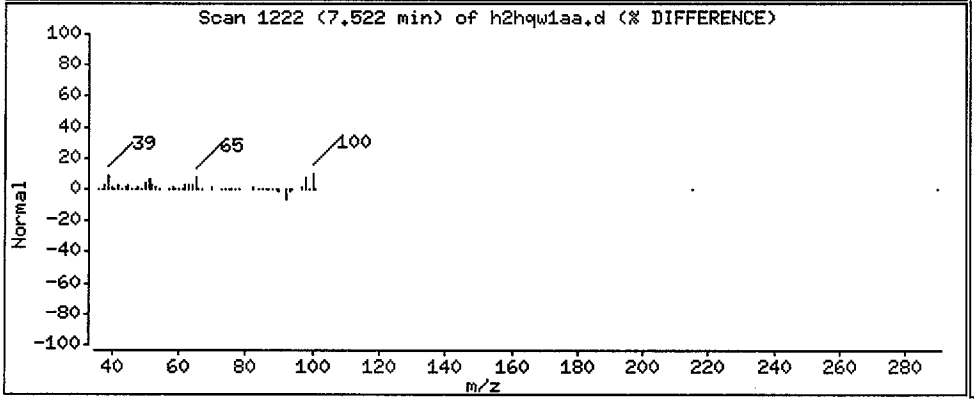
54 Toluene (ccc)

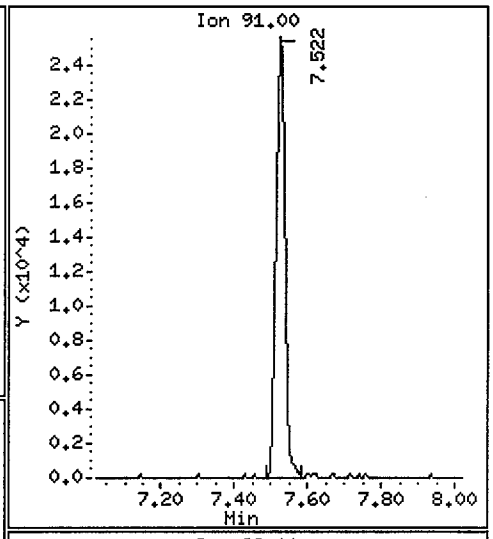
Concentration: 0.42566 ug/L

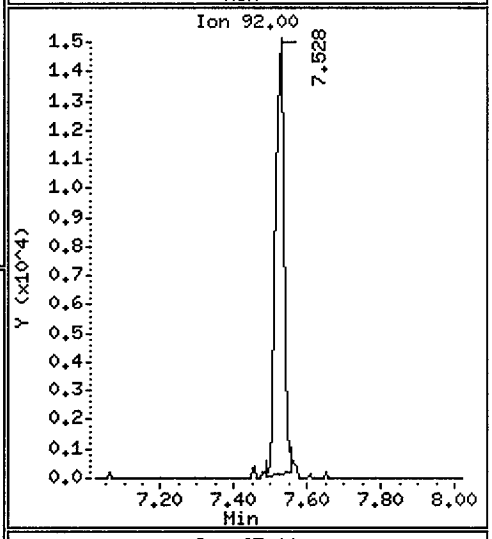


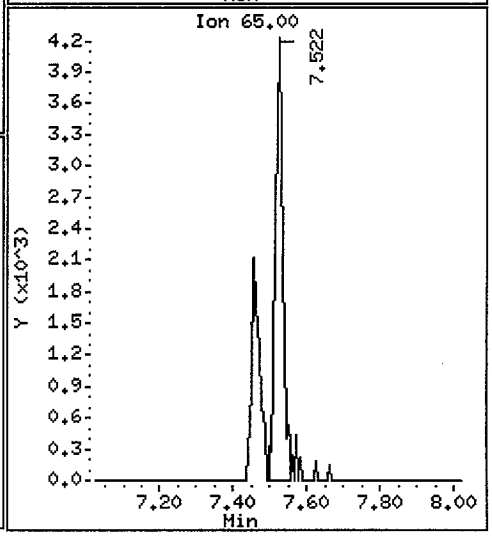












Data File: /chem/gcms/mz.i/Z040506.b/h2hqw1aa.d

Date : 05-APR-2006 22:53

Client ID: G-2995-R2-POTW DISC

Instrument: mz.i

Sample Info: H2HQW1AA,1,0,,

Purge Volume: 25.0

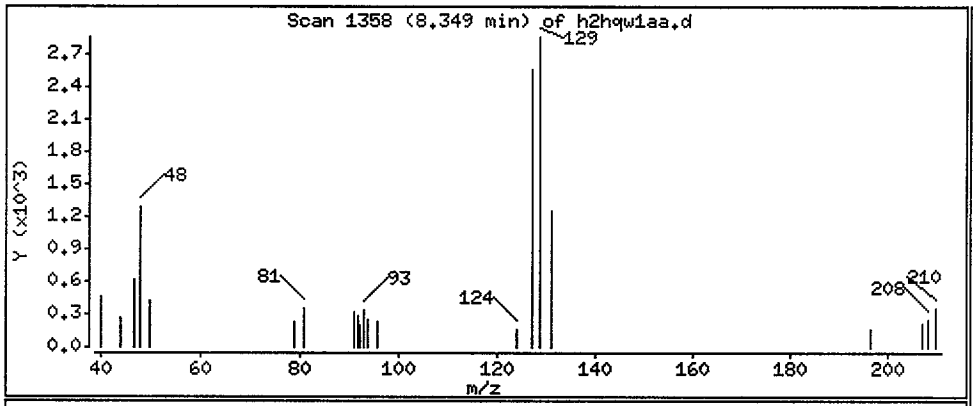
Operator: 063605

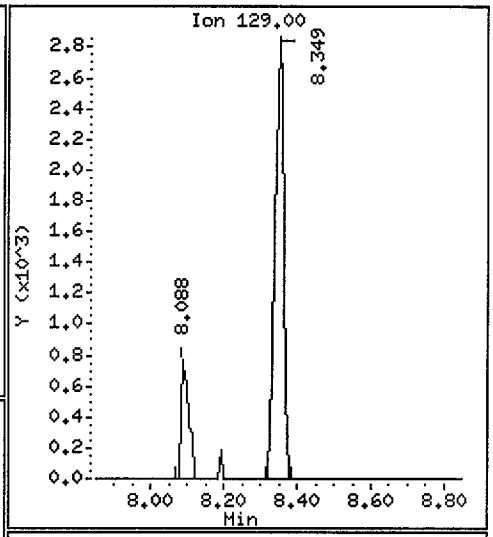
Column phase: J+W 624

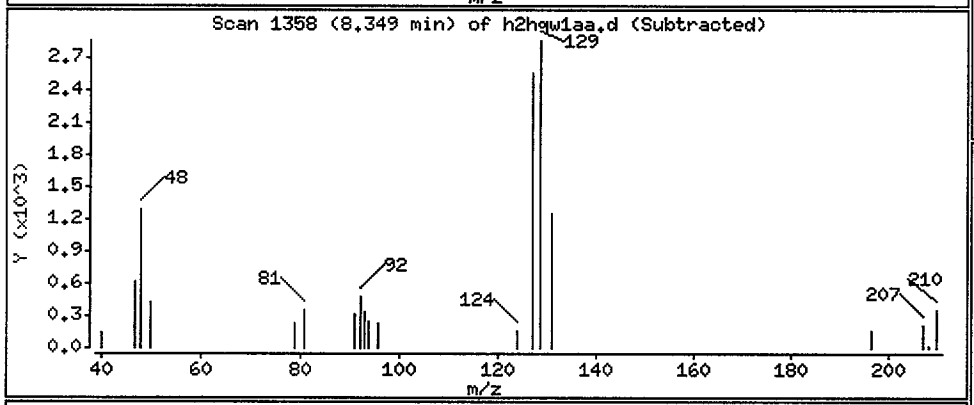
Column diameter: 0.18

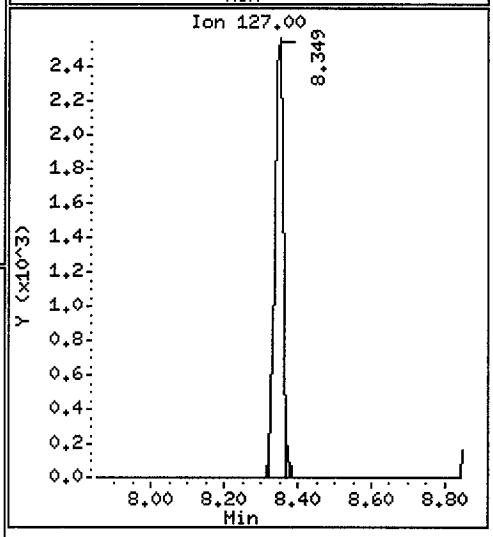
61 Chlorodibromomethane

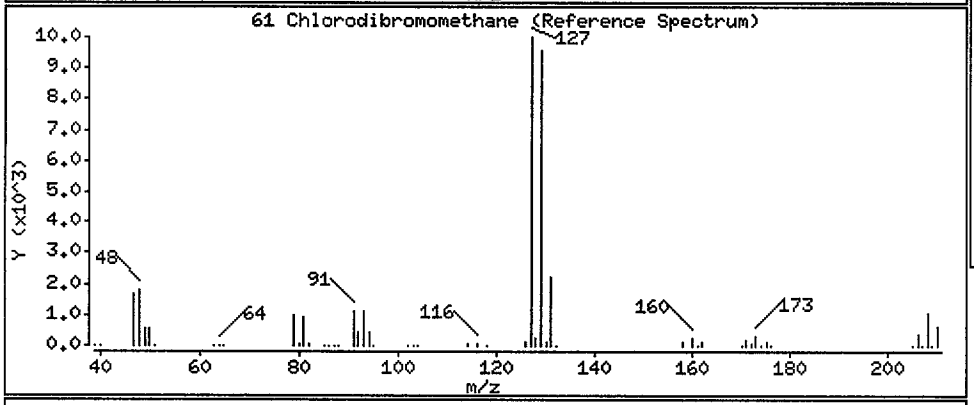
Concentration: 1.2650 ug/L

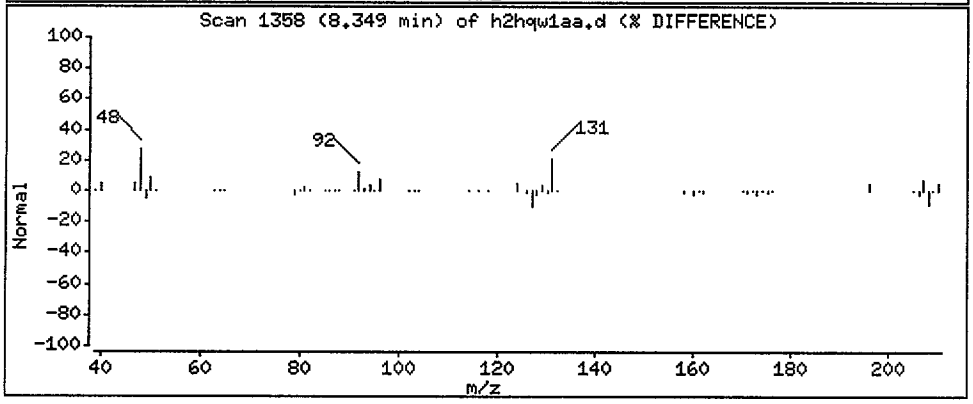












Data File: /var/chem/gcms/mz.i/Z040506.b/h2hqw1aa.d
Report Date: 07-Apr-2006 13:59

STL Knoxville

Volatile Organics by GC/MS

Data file : /var/chem/gcms/mz.i/Z040506.b/h2hqw1aa.d
Lab Smp Id: H2HQW1AA Client Smp ID: G-2995-R2-POTW DISC
Inj Date : 05-APR-2006 22:53
Operator : 063605 Inst ID: mz.i
Smp Info : H2HQW1AA,1,0,,
Misc Info : Z040506,8260B_LM,focus.sub
Comment : Volatile Organics by GC/MS
Method : /var/chem/gcms/mz.i/Z040506.b/8260B_LM.m
Meth Date : 06-Apr-2006 17:11 tillerm Quant Type: ISTD
Cal Date : 24-MAR-2006 13:51 Cal File: icvzc248.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: focus.sub
Target Version: 3.50
Processing Host: qmidhp01

Concentration Formula: Amt * DF * Uf*Vt/(Vo*1000) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Unit Correction factor
Vt	25000.00000	Sample Volume Purged
Vo	25.00000	Sample Volume Used

Cpnd Variable Local Compound Variable

ISTD	RT	HEIGHT	AMOUNT
* 1 Fluorobenzene	5.667	1000579	10.000

	CONCENTRATIONS				QUANT		
RT	HEIGHT	ON-COL(ug/L)	FINAL(ug/L)	QUAL	LIBRARY	LIB ENTRY	CPND #
Carbon dioxide				CAS #: 124-38-9			
0.909	3059604	30.5783351	30.578	5	NIST05.1	80	1

MT 4/8/06

Data File: /var/chem/gcms/mz.i/Z040506.b/h2hqw1aa.d

Date : 05-APR-2006 22:53

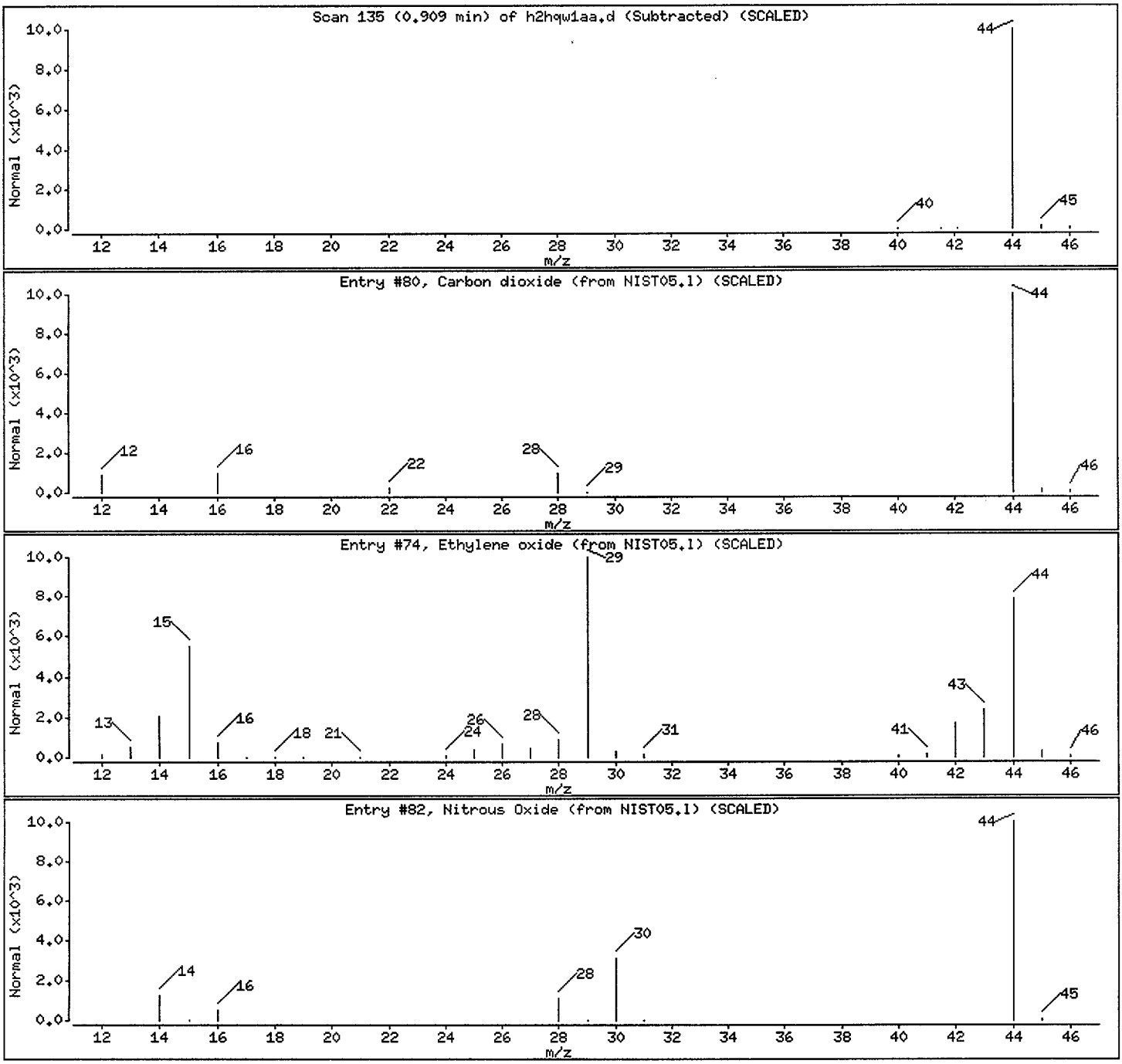
Client ID: G-2995-R2-POTW DISC Instrument: mz.i

Sample Info: H2HQW1AA,1,0,,

Purge Volume: 25.0 Operator: 063605

Column phase: J+W 624 Column diameter: 0.18

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Carbon dioxide	124-38-9	NIST05.l	80	5	CO2	44
Ethylene oxide	75-21-8	NIST05.l	74	3	C2H4O	44
Nitrous Oxide	10024-97-2	NIST05.l	82	3	N2O	44



STL Knoxville - ACS

Client Sample ID: G-3003-R2-MAKE-UP WATER

GC/MS Volatiles

Lot-Sample #...: H6D030205-009 **Work Order #...:** H2HQ01AA **Matrix.....:** WATER
Date Sampled...: 03/29/06 **Date Received..:** 04/02/06
Prep Date.....: 04/05/06 **Analysis Date..:** 04/05/06
Prep Batch #...: 6095253
Dilution Factor: 1 **Method.....:** SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	**3.8 J**	**10**	**ug/L**	**1.4**
Acrylonitrile	ND	20	ug/L	2.7
Benzene	ND	1.0	ug/L	0.10
Bromobenzene	ND	1.0	ug/L	0.11
Bromochloromethane	ND	1.0	ug/L	0.24
Bromodichloromethane	**4.1**	**1.0**	**ug/L**	**0.10**
Bromoform	**32**	**1.0**	**ug/L**	**0.14**
Bromomethane	ND	2.0	ug/L	0.38
2-Butanone	ND	5.0	ug/L	0.75
n-Butylbenzene	ND	1.0	ug/L	0.10
sec-Butylbenzene	ND	1.0	ug/L	0.10
tert-Butylbenzene	ND	1.0	ug/L	0.24
Carbon disulfide	ND	1.0	ug/L	0.10
Carbon tetrachloride	ND	1.0	ug/L	0.12
Chlorobenzene	ND	1.0	ug/L	0.10
Chlorodibromomethane	**13**	**1.0**	**ug/L**	**0.20**
Chloroethane	ND	2.0	ug/L	0.24
Chloroform	**0.64 J**	**1.0**	**ug/L**	**0.10**
Chloromethane	ND	2.0	ug/L	0.12
2-Chlorotoluene	ND	1.0	ug/L	0.24
4-Chlorotoluene	ND	1.0	ug/L	0.21
1,2-Dibromo-3-chloro-propane	ND	2.0	ug/L	0.45
1,2-Dibromoethane	ND	1.0	ug/L	0.24
Dibromomethane	ND	1.0	ug/L	0.21
1,2-Dichlorobenzene	ND	1.0	ug/L	0.10
1,3-Dichlorobenzene	ND	1.0	ug/L	0.10
1,4-Dichlorobenzene	ND	1.0	ug/L	0.12
Dichlorodifluoromethane	ND	2.0	ug/L	0.15
1,1-Dichloroethane	ND	1.0	ug/L	0.10
1,2-Dichloroethane	**0.13 J**	**1.0**	**ug/L**	**0.10**
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.12
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.10
1,1-Dichloroethene	ND	1.0	ug/L	0.10
1,2-Dichloropropane	ND	1.0	ug/L	0.10
1,3-Dichloropropane	ND	1.0	ug/L	0.17
2,2-Dichloropropane	ND	1.0	ug/L	0.11
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.10
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.11

(Continued on next page)

STL Knoxville - ACS

Client Sample ID: G-3003-R2-MAKE-UP WATER

GC/MS Volatiles

Lot-Sample #...: H6D030205-009 **Work Order #...:** H2HQ01AA **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1-Dichloropropene	ND	1.0	ug/L	0.10
Ethylbenzene	ND	1.0	ug/L	0.10
Hexachlorobutadiene	ND	2.0	ug/L	0.12
2-Hexanone	ND	5.0	ug/L	0.76
Iodomethane	ND	2.0	ug/L	0.12
Isopropylbenzene	ND	1.0	ug/L	0.10
p-Isopropyltoluene	ND	1.0	ug/L	0.10
Methylene chloride	**2.4**	**2.0**	**ug/L**	**0.23**
4-Methyl-2-pentanone	ND	5.0	ug/L	0.40
Naphthalene	ND	1.0	ug/L	0.17
n-Propylbenzene	ND	1.0	ug/L	0.10
Styrene	ND	1.0	ug/L	0.10
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	0.12
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.15
Tetrachloroethene	**0.31 J**	**1.0**	**ug/L**	**0.10**
Tetrahydrofuran	ND	4.0	ug/L	1.2
Toluene	**0.41 J**	**1.0**	**ug/L**	**0.10**
1,2,3-Trichlorobenzene	ND	1.0	ug/L	0.23
1,2,4-Trichloro-benzene	ND	1.0	ug/L	0.15
1,1,1-Trichloroethane	ND	1.0	ug/L	0.10
1,1,2-Trichloroethane	ND	1.0	ug/L	0.25
Trichloroethene	ND	1.0	ug/L	0.10
Trichlorofluoromethane	ND	2.0	ug/L	0.12
1,2,3-Trichloropropane	ND	1.0	ug/L	0.36
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	1.0	ug/L	0.13
1,2,4-Trimethylbenzene	ND	1.0	ug/L	0.11
1,3,5-Trimethylbenzene	ND	1.0	ug/L	0.10
Vinyl acetate	ND	2.0	ug/L	0.24
Vinyl chloride	ND	1.0	ug/L	0.24
m-Xylene & p-Xylene	ND	1.0	ug/L	0.20
o-Xylene	ND	1.0	ug/L	0.14
Xylenes (total)	ND	1.0	ug/L	0.30

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	112	(79 - 120)
1,2-Dichloroethane-d4	113	(71 - 127)
Toluene-d8	101	(80 - 120)
Bromofluorobenzene	94	(69 - 126)

NOTE(S):

J Estimated result. Result is less than RL.

STL Knoxville - ACS

G-3003-R2-MAKE-UP WATER

GC/MS Volatiles

Lot-Sample #: H6D030205-009 **Work Order #:** H2HQ01AA **Matrix:** WATER

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT	RETENTION TIME	UNITS
None				ug/L

Data File: /chem/gcms/mz.i/Z040506.b/h2hq01aa.d
Report Date: 05-Apr-2006 23:34

STL Knoxville

Volatile Organics by GC/MS

Data file : /chem/gcms/mz.i/Z040506.b/h2hq01aa.d
Lab Smp Id: H2HQ01AA Client Smp ID: G-3003-R2-MAKE-UP W
Inj Date : 05-APR-2006 23:16
Operator : 063605 Inst ID: mz.i
Smp Info : H2HQ01AA,1,0,,
Misc Info : Z040506,8260B_LM,focus.sub
Comment : Volatile Organics by GC/MS
Method : /var/chem/gcms/mz.i/Z040506.b/8260B_LM.m
Meth Date : 05-Apr-2006 15:47 tillerm Quant Type: ISTD
Cal Date : 24-MAR-2006 13:51 Cal File: icvzc248.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: focus.sub
Target Version: 3.50
Processing Host: qmidhp01

Concentration Formula: Amt * DF * Uf*Vt/(Vo*1000) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Unit Correction factor
Vt	25000.00000	Sample Volume Purged
Vo	25.00000	Sample Volume Used

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
* 1 Fluorobenzene	96	5.669	5.667	(1.000)	947412	10.0000	
* 2 Chlorobenzene-d5	119	8.930	8.933	(1.000)	175517	10.0000	
* 3 1,4 Dichlorobenzene-d4	152	11.485	11.488	(1.000)	213058	10.0000	
$ 5 1,2-Dichloroethane-d4	65	5.231	5.229	(0.923)	148798	11.3347	11.335
$ 4 Dibromofluoromethane	113	4.823	4.821	(0.851)	169730	11.1805	11.180
$ 6 Toluene-d8	98	7.457	7.455	(0.835)	781247	10.1303	10.130
$ 7 4-Bromofluorobenzene	95	10.122	10.126	(0.881)	202658	9.43167	9.4317
15 Bromomethane	94	1.404	1.414	(0.248)	190	~~0.85310~~	~~0.85310~~
22 Acetone	43	2.128	2.126	(0.375)	3172	3.80476	3.8048
23 *Iodomethane	142	2.195	2.181	(0.387)	712	~~0.55108~~	~~0.55108~~
27 Methylene Chloride	84	2.505	2.503	(0.442)	37894	2.39159	2.3916
39 *THF	42	4.331	4.529	(0.764)	2606	~~1.15968~~	~~1.1597~~
40 Chloroform (ccc)	83	4.604	4.608	(0.812)	21900	0.63978	0.63978
45 1,2-Dichloroethane	62	5.328	5.326	(0.940)	2577	0.13028	0.13028

VMT 4/7/06

Data File: /chem/gcms/mz.i/Z040506.b/h2hq01aa.d
Report Date: 05-Apr-2006 23:34

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)
50 Bromodichloromethane	83	6.685	6.683	(1.179)	59517	4.09186	4.0919
53 4-Methyl-2-pentanone	43	7.463	7.376	(1.317)	6637	~~0.80222~~	~~0.80223~~
54 Toluene (ccc)	91	7.524	7.522	(0.843)	41121	0.41168	0.41168
55 trans-1,3-Dichloropropene	75	7.530	7.784	(0.843)	184	~~0.63683~~	~~0.63683~~
58 Tetrachloroethene	164	8.096	8.094	(0.907)	6479	0.31274	0.31274
61 Chlorodibromomethane	129	8.346	8.349	(0.935)	112349	12.9265	12.926
69 Bromoform (spcc)	173	9.781	9.779	(1.095)	104947	32.0225	32.022

WT 4/7/06

Data File: /chem/gcms/mz.i/Z040506.b/h2hq01aa.d
Report Date: 05-Apr-2006 23:34

STL Knoxville

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: mz.i
Lab File ID: h2hq01aa.d
Lab Smp Id: H2HQ01AA
Analysis Type: VOA
Quant Type: ISTD
Operator: 063605
Method File: /var/chem/gcms/mz.i/Z040506.b/8260B_LM.m
Misc Info: Z040506,8260B_LM,focus.sub

Calibration Date: 05-APR-2006
Calibration Time: 14:42
Client Smp ID: G-3003-R2-MAKE-UP W
Level: LOW
Sample Type: WATER

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	1078707	539354	2157414	947412	-12.17
2 Chlorobenzene-d5	188899	94450	377798	175517	-7.08
3 1,4 Dichlorobenze	220143	110072	440286	213058	-3.22

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	5.67	5.17	6.17	5.67	0.04
2 Chlorobenzene-d5	8.93	8.43	9.43	8.93	-0.04
3 1,4 Dichlorobenze	11.49	10.99	11.99	11.48	-0.03

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

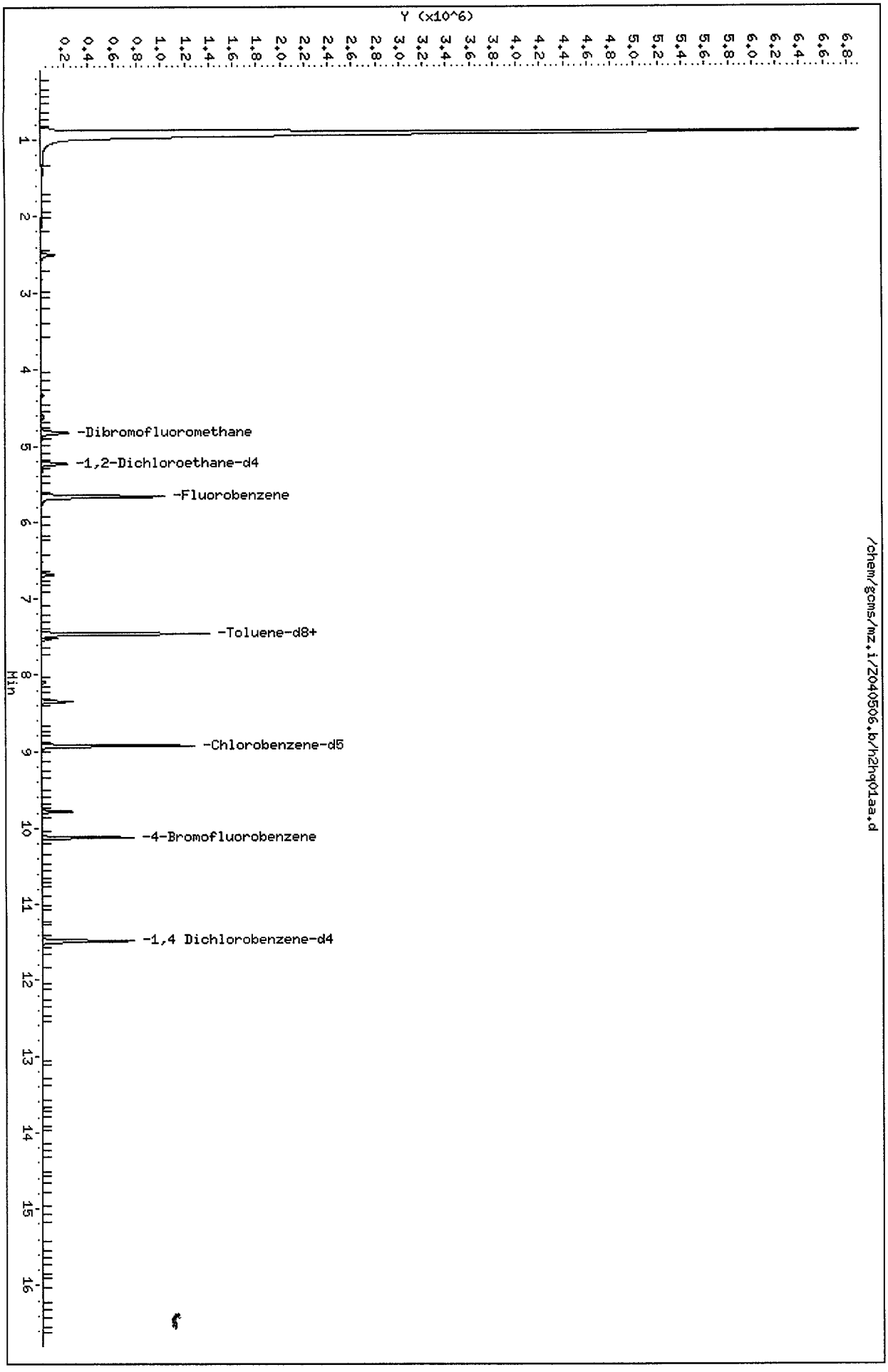
Data File: /chem/gcms/mz.i/Z040506.b/h2hq01aa.d
Report Date: 05-Apr-2006 23:34

STL Knoxville

RECOVERY REPORT

Client Name: STL Knoxville - ACS
Client SDG: H6D030205
Sample Matrix: LIQUID
Fraction: VOA
Lab Smp Id: H2HQ01AA
Client Smp ID: G-3003-R2-MAKE-UP W
Level: LOW
Operator: 063605
Data Type: MS DATA
SampleType: SAMPLE
SpikeList File: allcmpds.spk
Quant Type: ISTD
Sublist File: focus.sub
Method File: /var/chem/gcms/mz.i/Z040506.b/8260B_LM.m
Misc Info: Z040506,8260B_LM,focus.sub

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
$ 5 1,2-Dichloroethane	10.000	11.335	113.35	71-127
$ 4 Dibromofluorometha	10.000	11.180	111.80	79-120
$ 6 Toluene-d8	10.000	10.130	101.30	80-120
$ 7 4-Bromofluorobenze	10.000	9.4317	94.32	69-126


Data File: /chem/gcms/mz.i/Z040506.b/h2hq01aa.d
Date : 05-APR-2006 23:16
Client ID: G-3003-R2-MAKE-UP W
Sample Info: H2HQ01AA,1,0,,
Purge Volume: 25.0
Column phase: J+W 624
Instrument: mz.i
Operator: 063605
Column diameter: 0.18
Y (x10^6)
Min
-Dibromofluoromethane
-1,2-Dichloroethane-d4
-Fluorobenzene
-Toluene-d8+
-Chlorobenzene-d5
-4-Bromofluorobenzene
-1,4 Dichlorobenzene-d4
/chem/gcms/mz.i/Z040506.b/h2hq01aa.d

Data File: /chem/gcms/mz.i/Z040506.b/h2hq01aa.d

Date : 05-APR-2006 23:16

Client ID: G-3003-R2-MAKE-UP W

Instrument: mz.i

Sample Info: H2HQ01AA,1,0,,

Purge Volume: 25.0

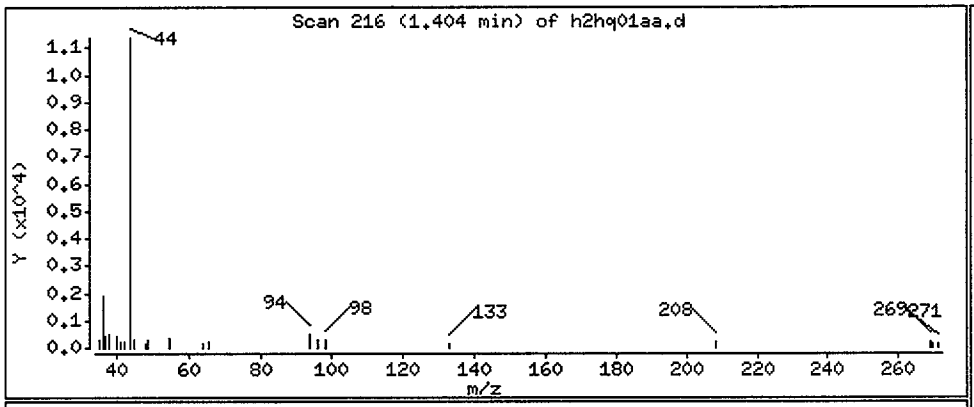
Operator: 063605

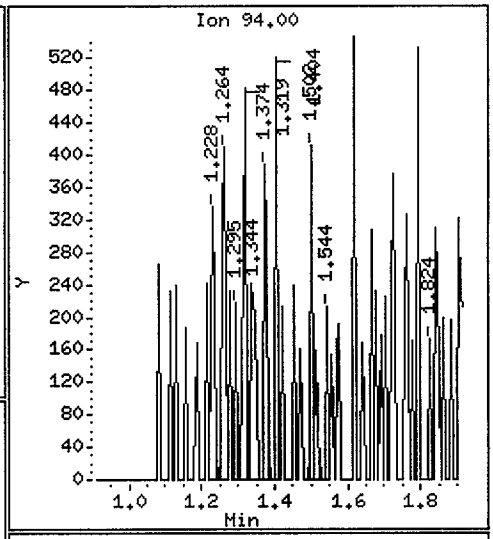
Column phase: J+W 624

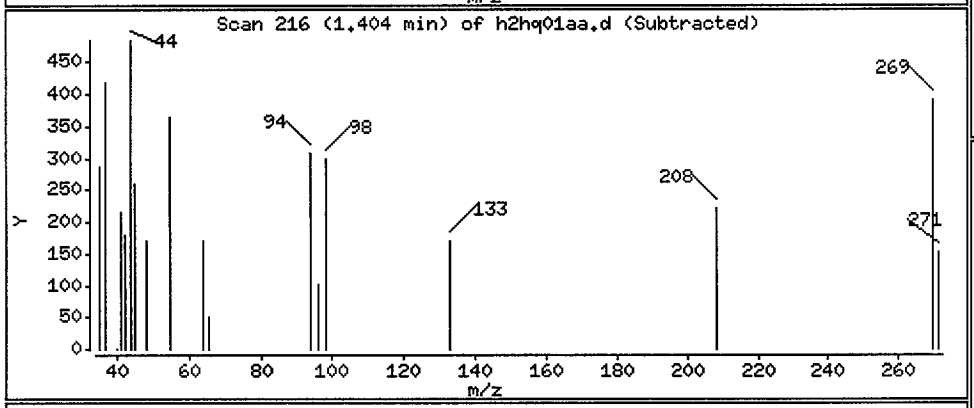
Column diameter: 0.18

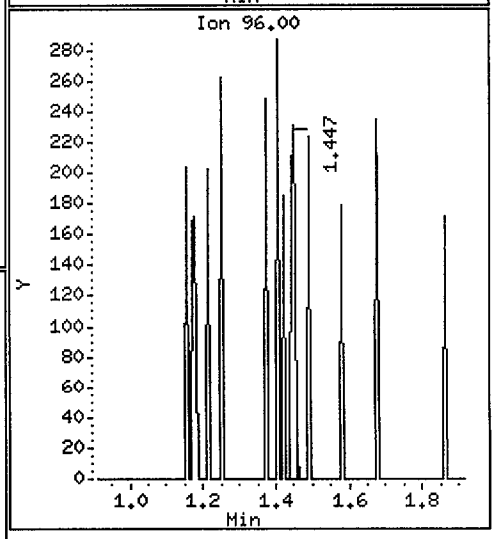
15 Bromomethane

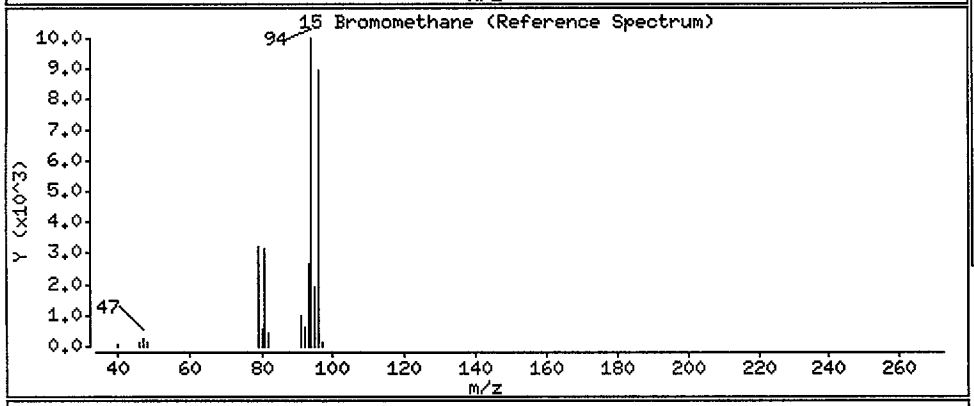
Concentration: 0.85310 ug/L

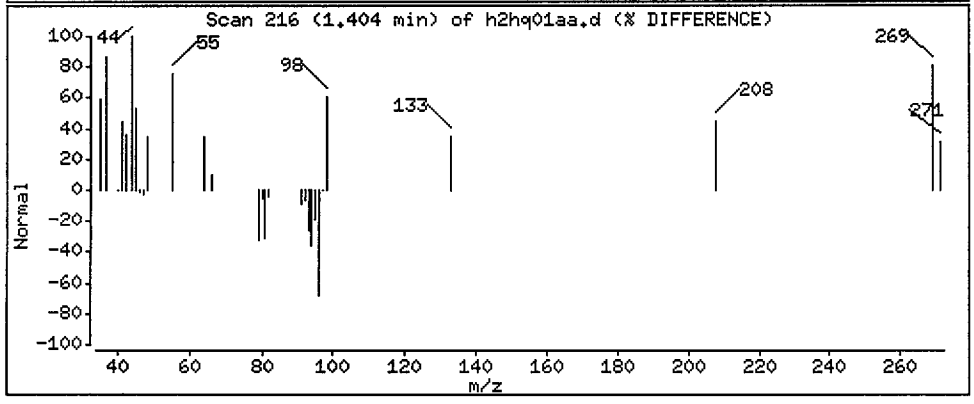












Data File: /chem/gcms/mz.i/Z040506.b/h2hq01aa.d

Date : 05-APR-2006 23:16

Client ID: G-3003-R2-MAKE-UP W

Instrument: mz.i

Sample Info: H2HQ01AA,1,0,,

Purge Volume: 25.0

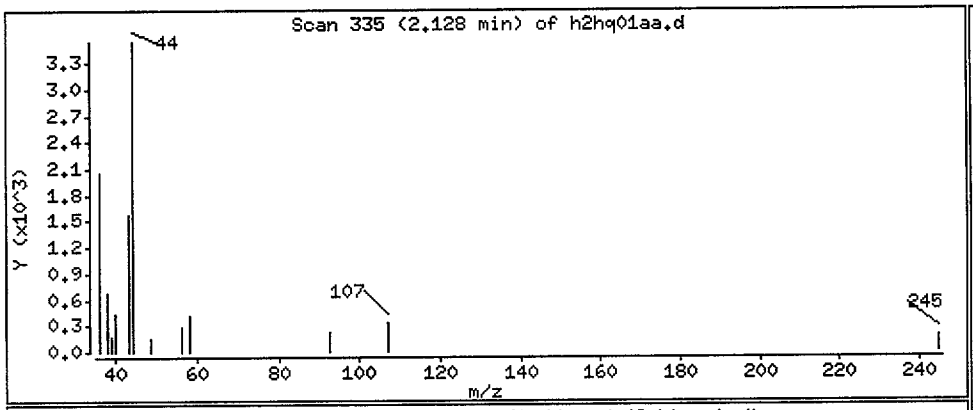
Operator: 063605

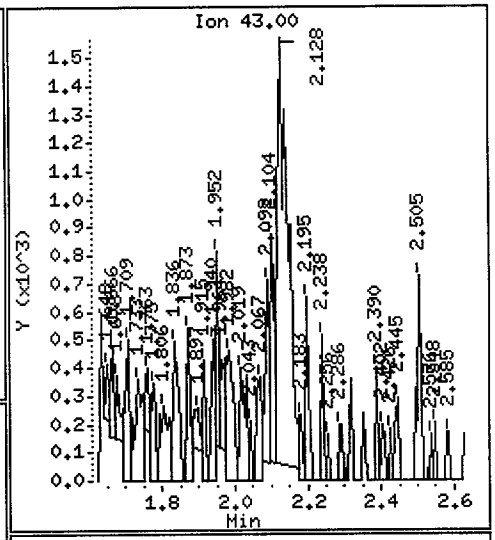
Column phase: J+W 624

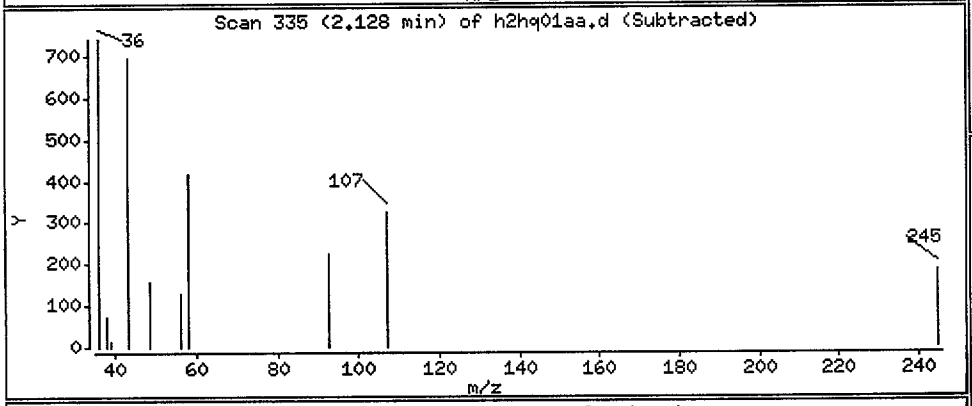
Column diameter: 0.18

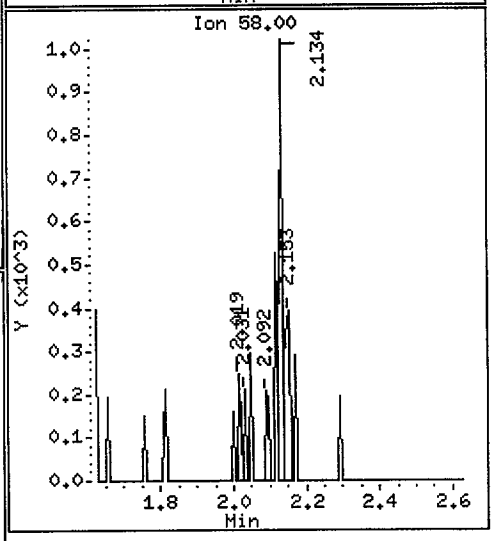
22 Acetone

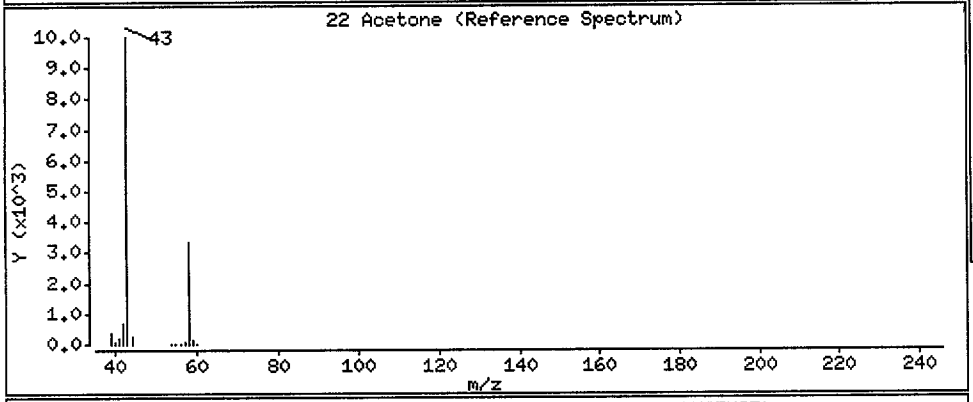
Concentration: 3.8048 ug/L

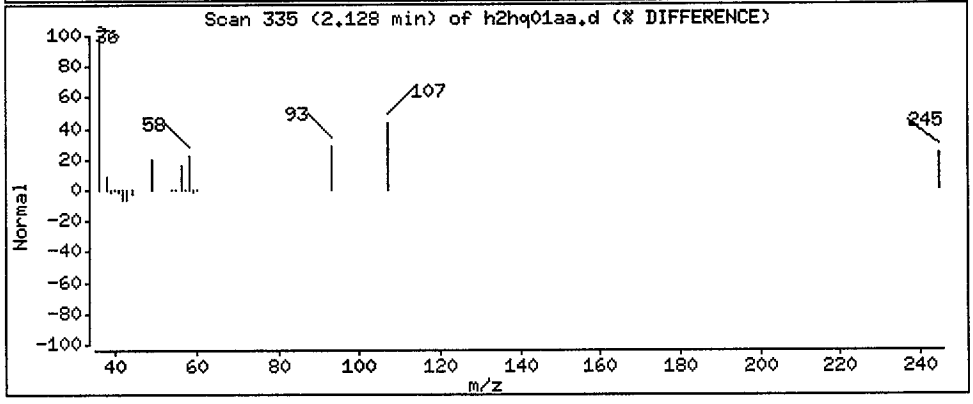












Data File: /chem/gcms/mz.i/Z040506.b/h2hq01aa.d

Date : 05-APR-2006 23:16

Client ID: G-3003-R2-MAKE-UP W

Instrument: mz.i

Sample Info: H2HQ01AA,1,0,,

Purge Volume: 25.0

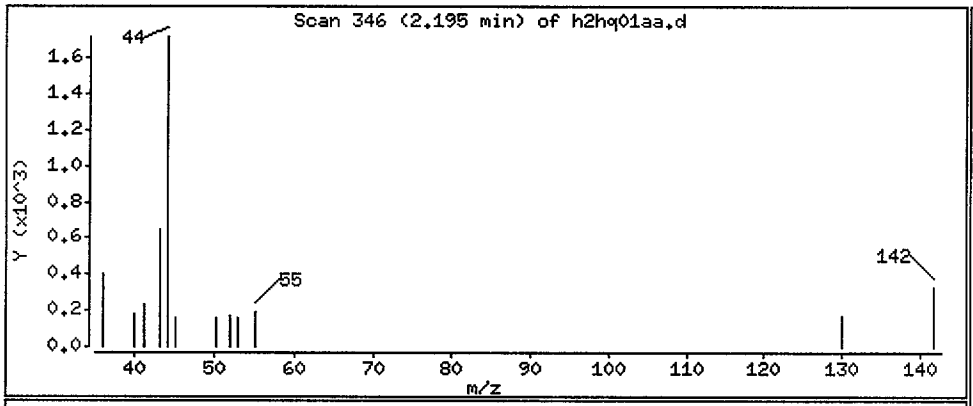
Operator: 063605

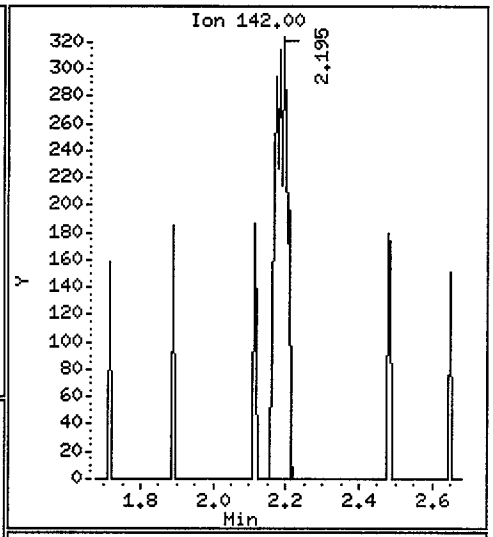
Column phase: J+W 624

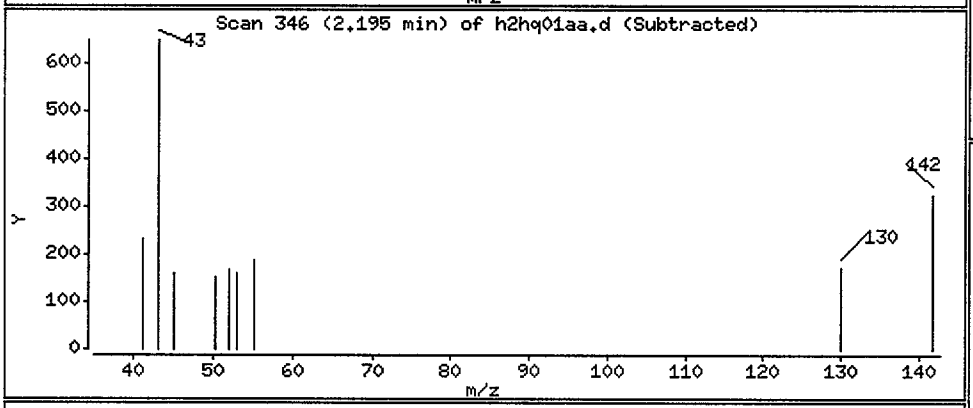
Column diameter: 0.18

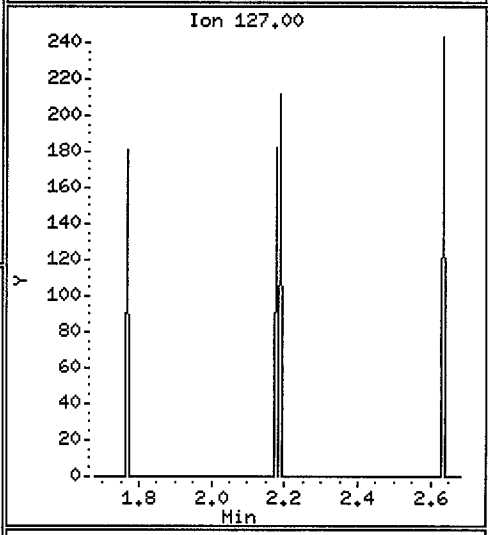
23 *Iodomethane

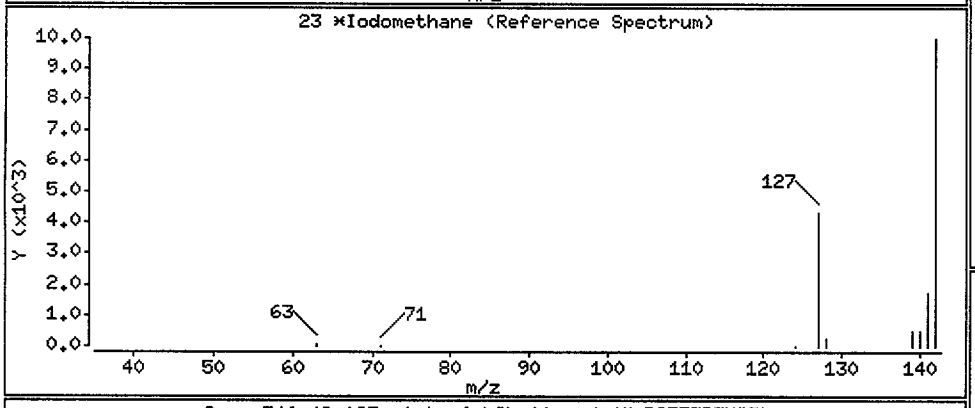
Concentration: 0.55108 ug/L

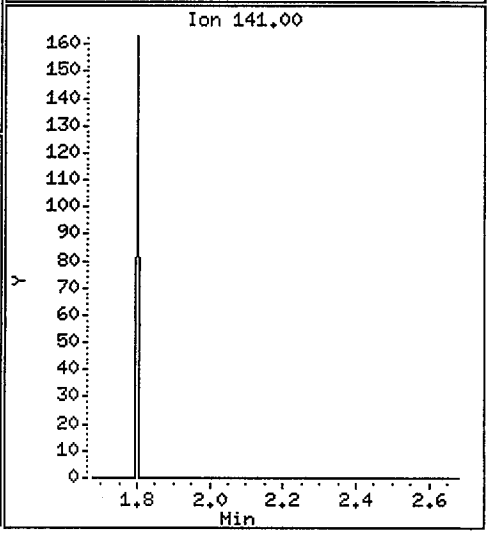


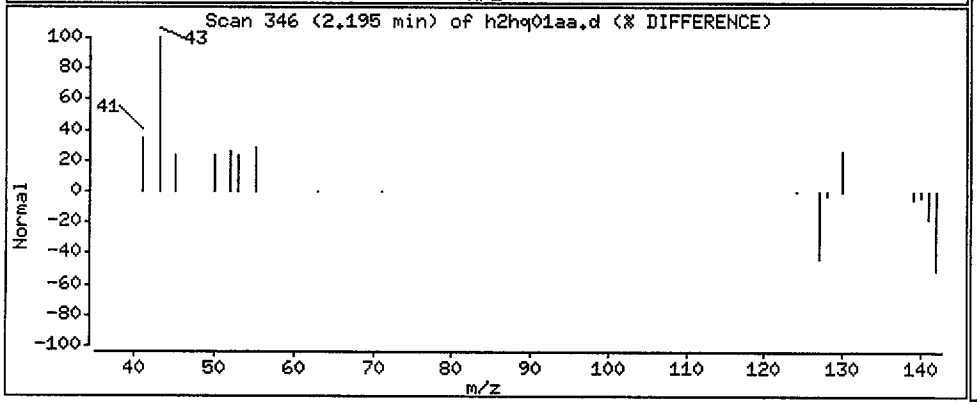












Data File: /chem/gcms/mz.i/Z040506.b/h2hq01aa.d

Date : 05-APR-2006 23:16

Client ID: G-3003-R2-MAKE-UP W

Instrument: mz.i

Sample Info: H2HQ01AA,1,0,,

Purge Volume: 25.0

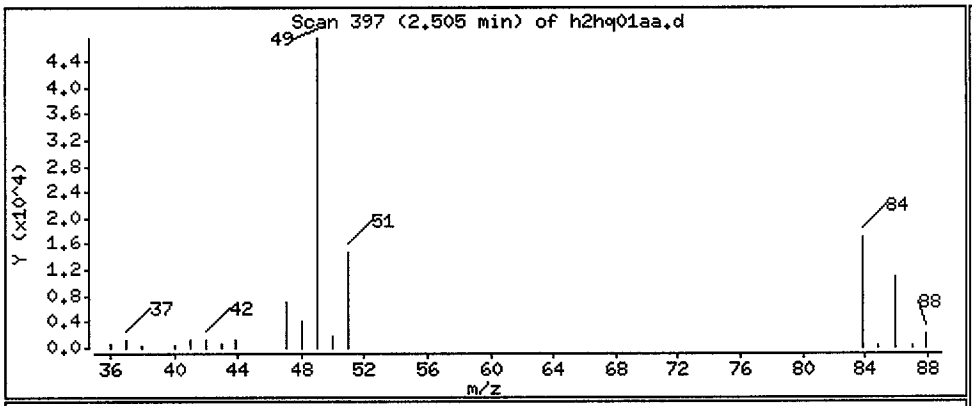
Operator: 063605

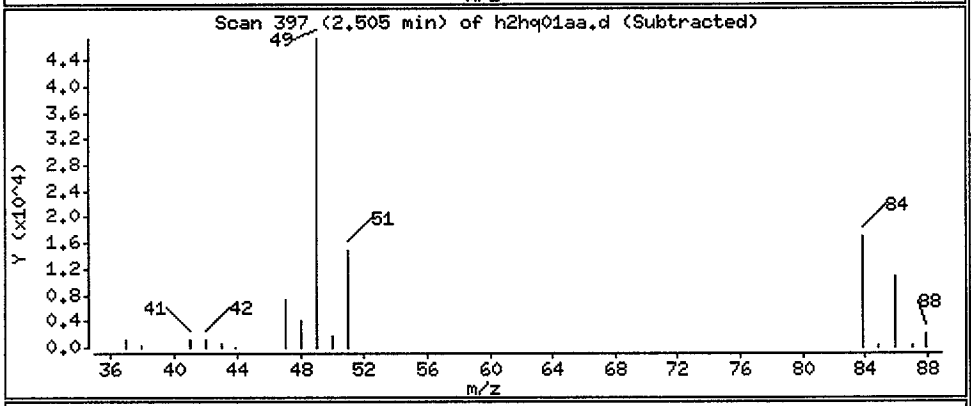
Column phase: J+W 624

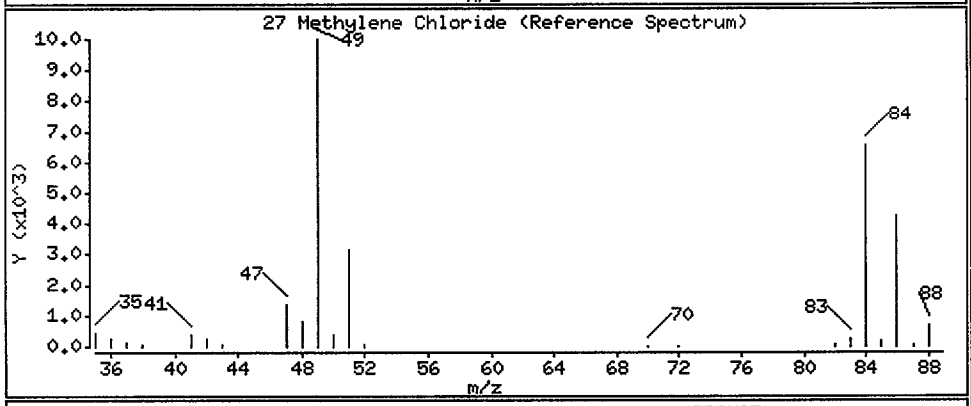
Column diameter: 0.18

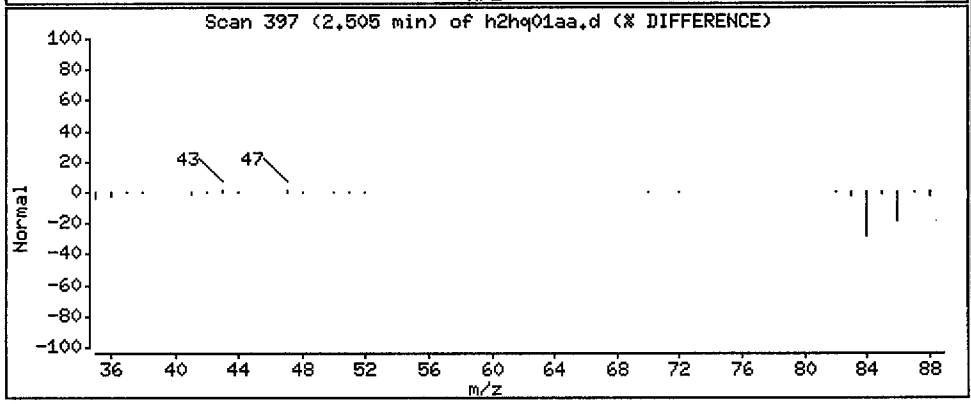
27 Methylene Chloride

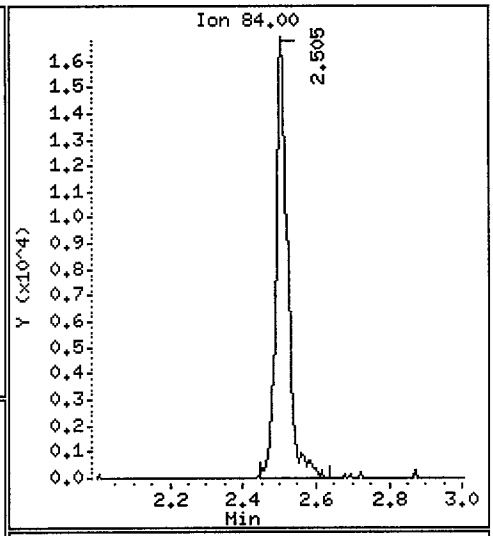
Concentration: 2.3916 ug/L

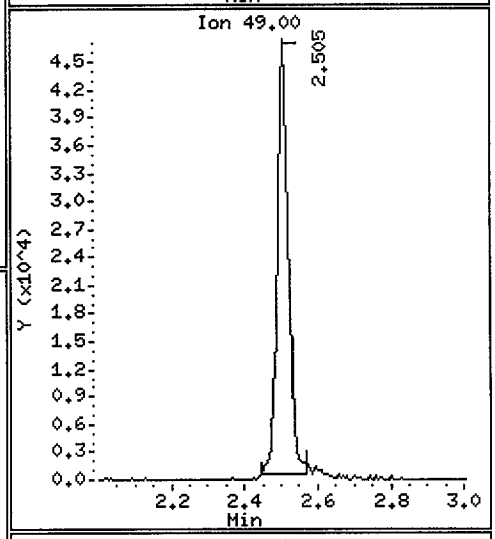


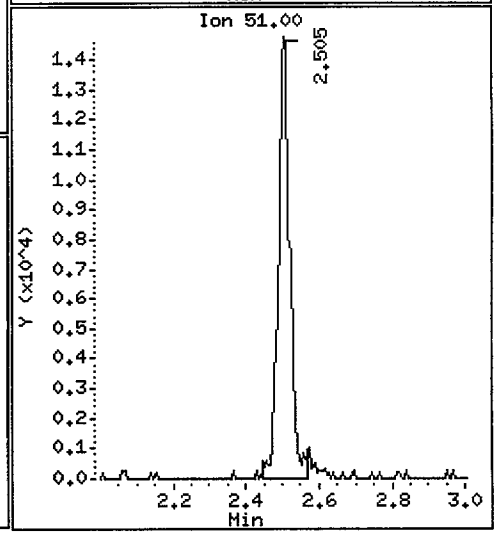












Data File: /chem/gcms/mz.i/Z040506.b/h2hq01aa.d

Date : 05-APR-2006 23:16

Client ID: G-3003-R2-MAKE-UP W

Instrument: mz.i

Sample Info: H2HQ01AA,1,0,,

Purge Volume: 25.0

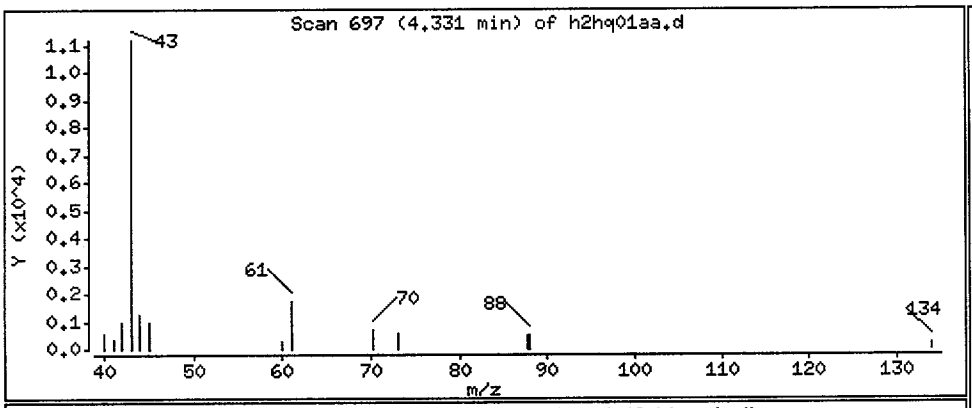
Operator: 063605

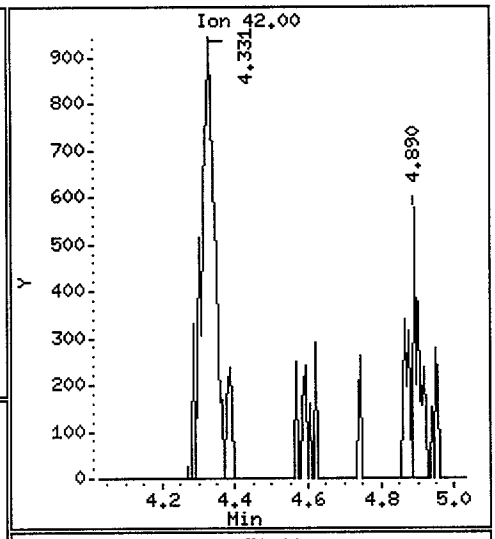
Column phase: J+W 624

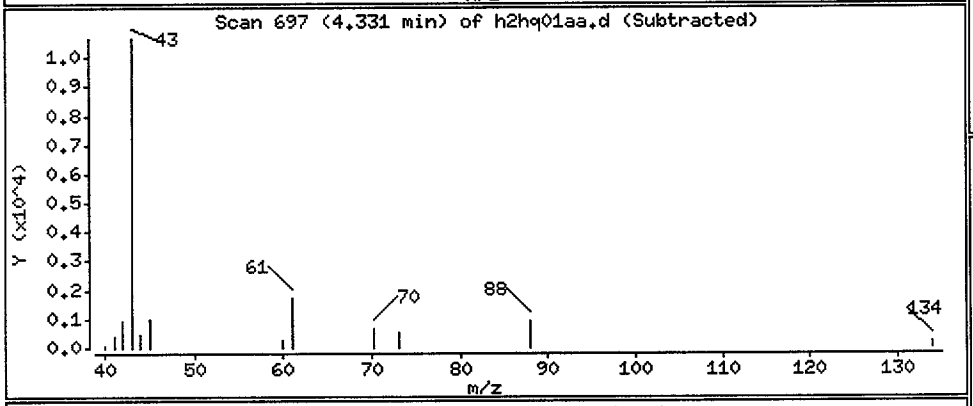
Column diameter: 0.18

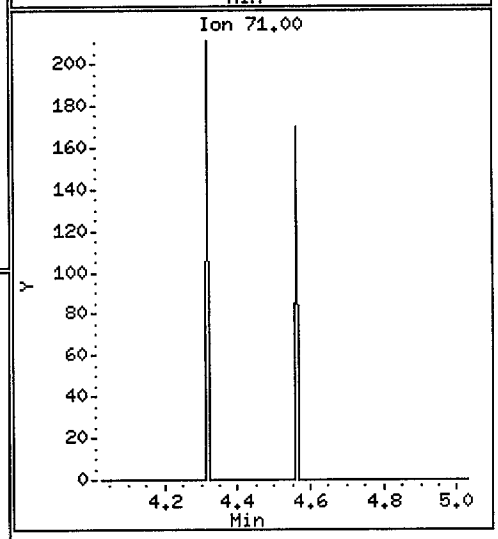
39 *THF

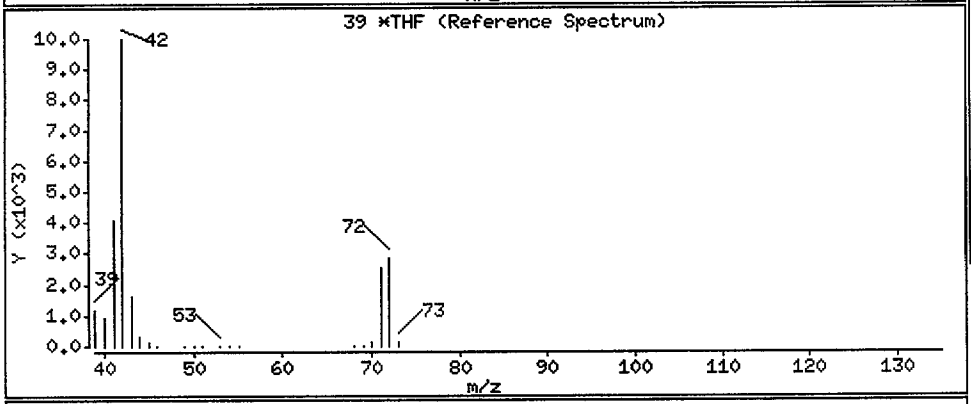
Concentration: 1.1597 ug/L

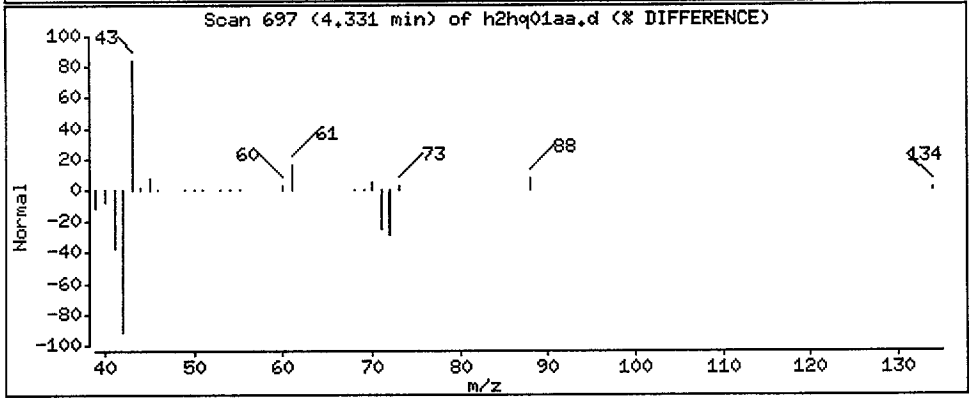












Data File: /chem/gcms/mz.i/Z040506.b/h2hq01aa.d

Date : 05-APR-2006 23:16

Client ID: G-3003-R2-MAKE-UP W

Instrument: mz.i

Sample Info: H2HQ01AA,1,0,,

Purge Volume: 25.0

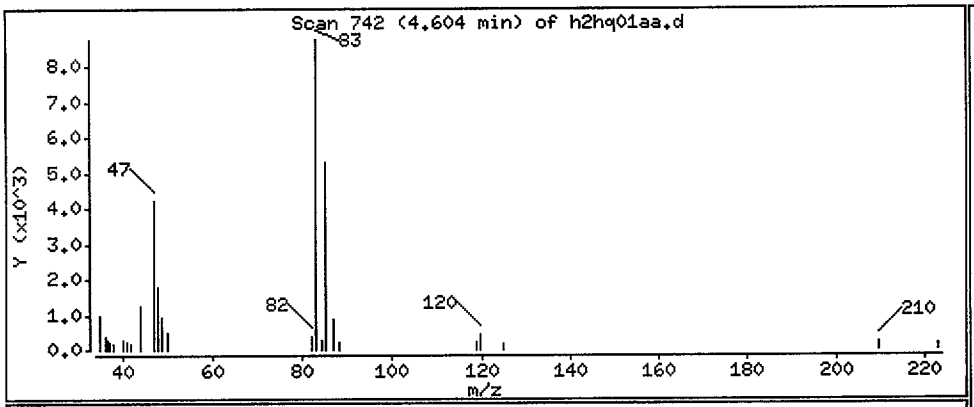
Operator: 063605

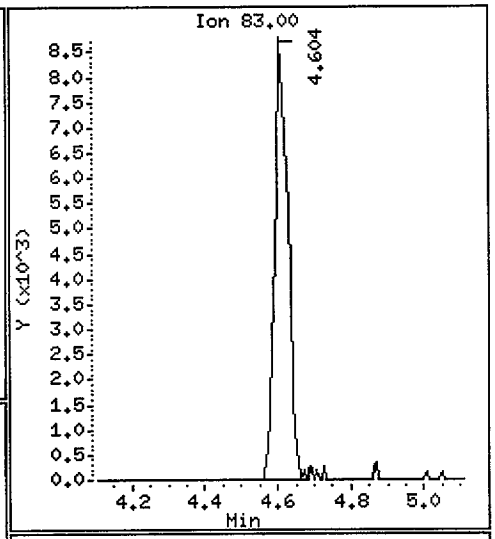
Column phase: J+W 624

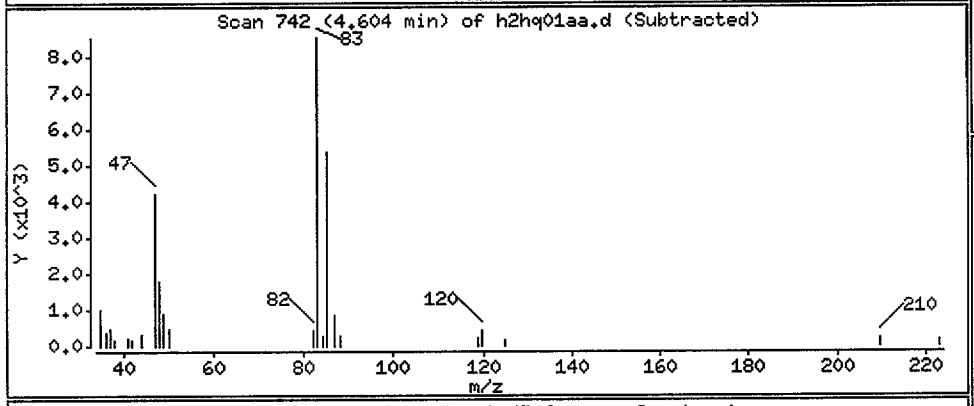
Column diameter: 0.18

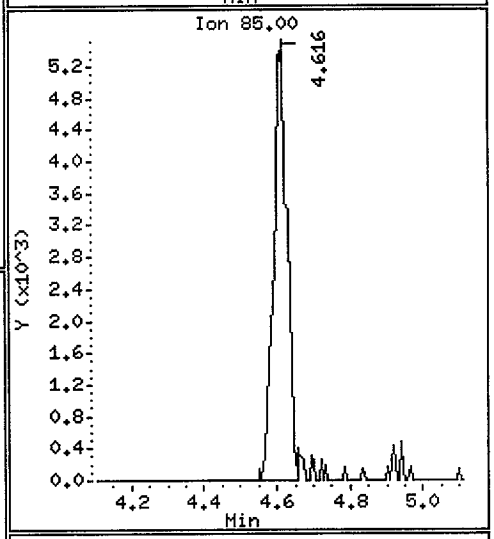
40 Chloroform (ccc)

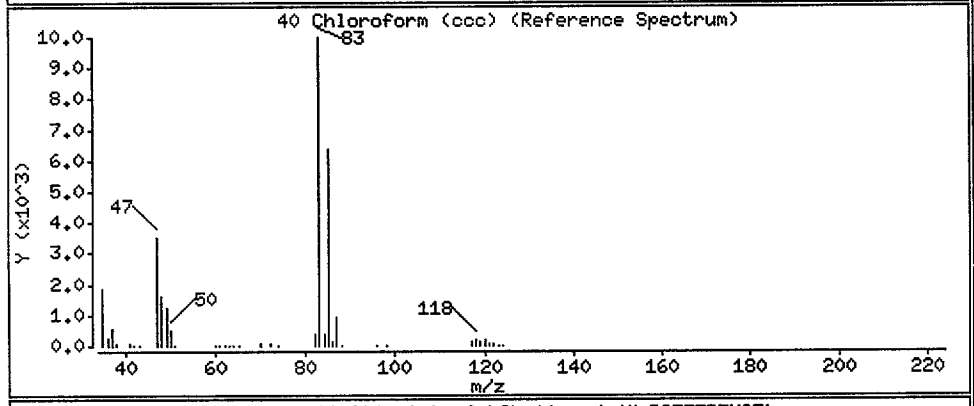
Concentration: 0.63978 ug/L

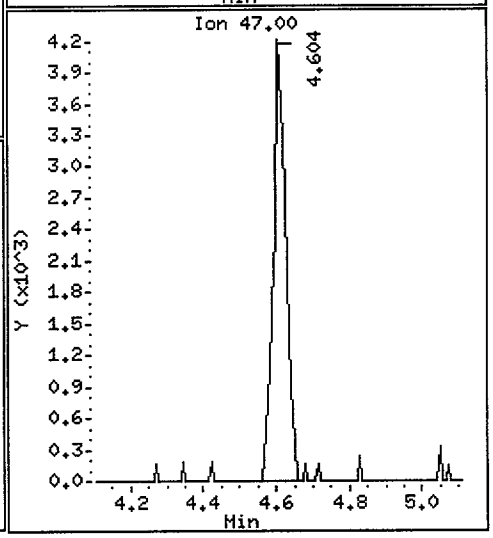


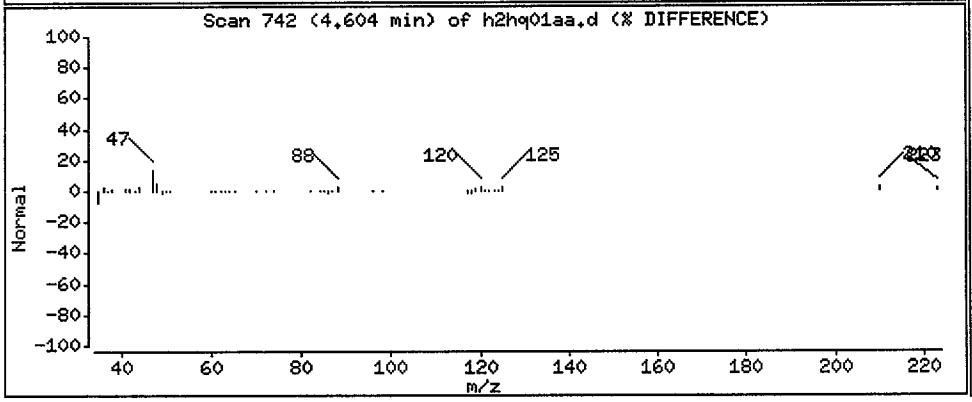












Data File: /chem/gcms/mz.i/Z040506.b/h2hq01aa.d

Date : 05-APR-2006 23:16

Client ID: G-3003-R2-MAKE-UP W

Instrument: mz.i

Sample Info: H2HQ01AA,1,0,,

Purge Volume: 25.0

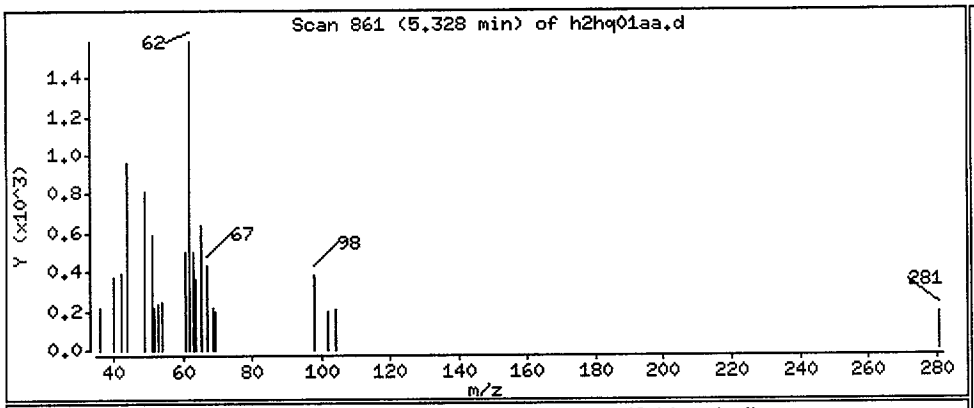
Operator: 063605

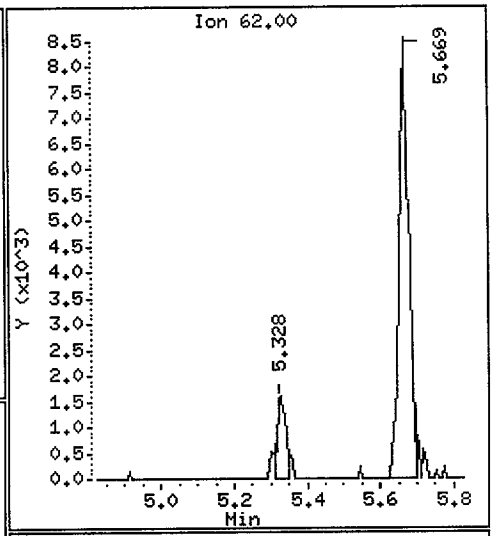
Column phase: J+W 624

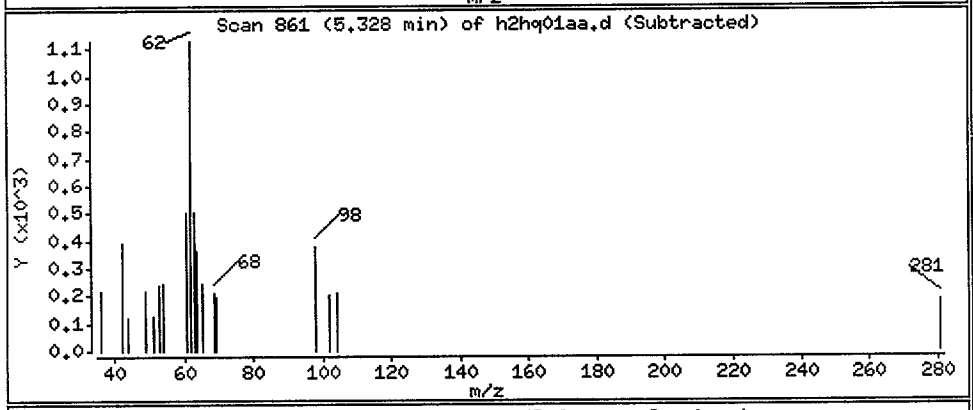
Column diameter: 0.18

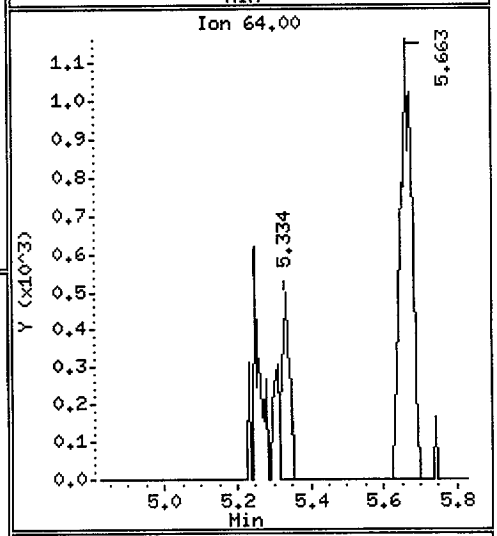
45 1,2-Dichloroethane

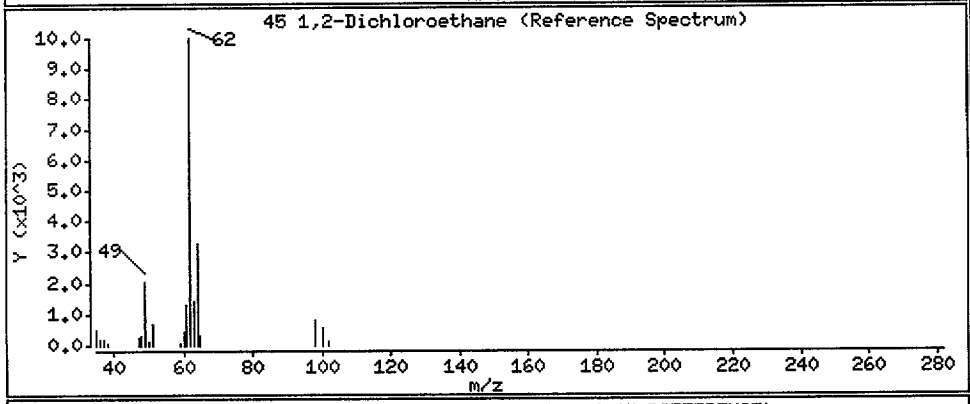
Concentration: 0.13028 ug/L

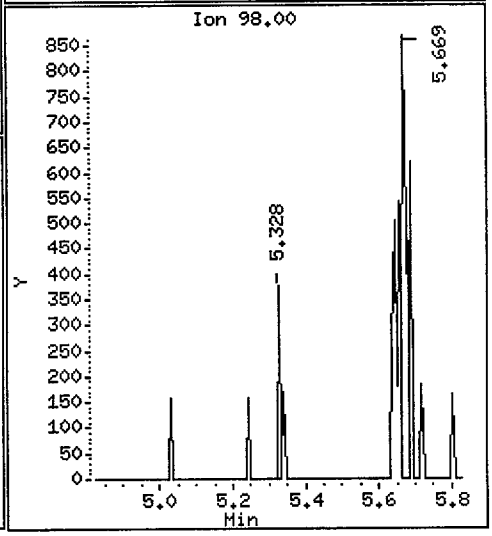


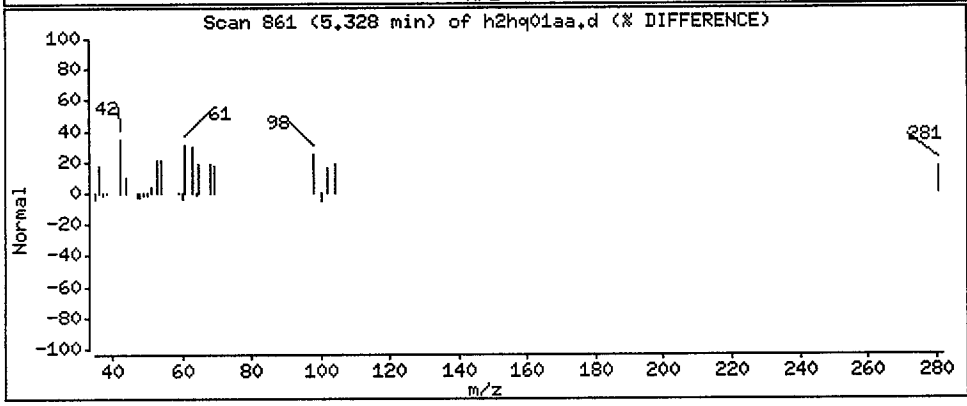












Data File: /chem/gcms/mz.i/Z040506.b/h2hq01aa.d

Date : 05-APR-2006 23:16

Client ID: G-3003-R2-MAKE-UP W

Instrument: mz.i

Sample Info: H2HQ01AA,1,0,,

Purge Volume: 25.0

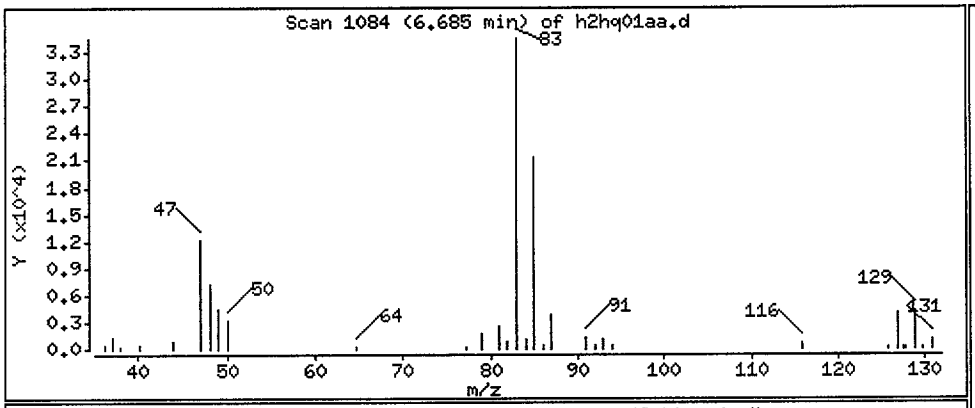
Operator: 063605

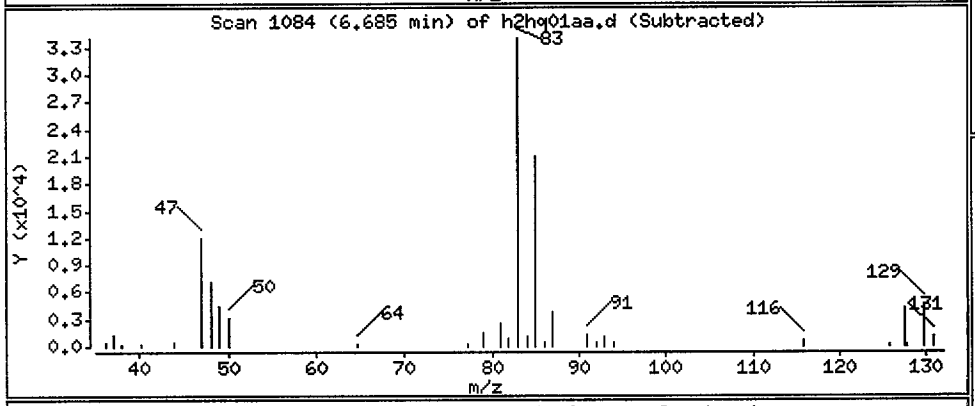
Column phase: J+W 624

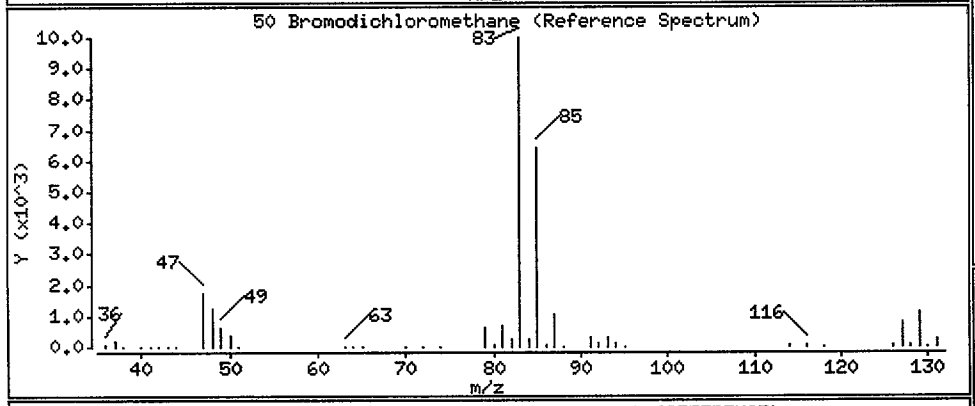
Column diameter: 0.18

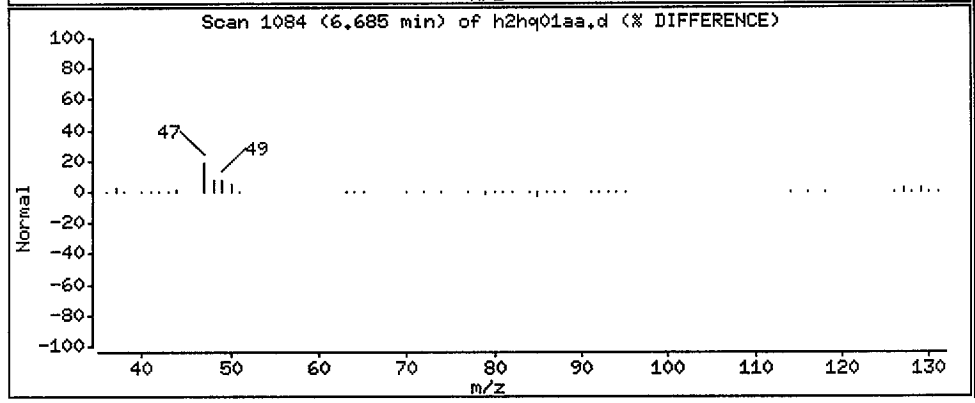
50 Bromodichloromethane

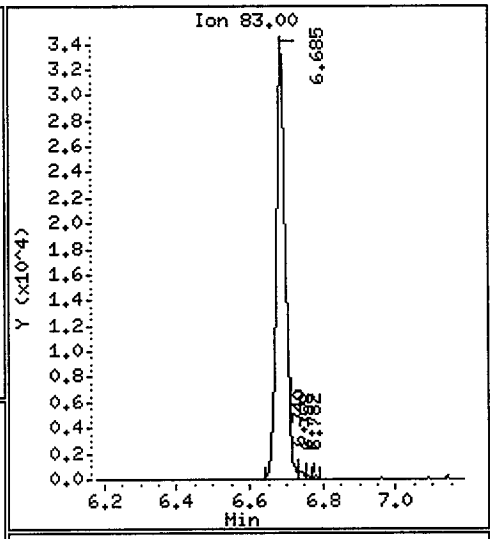
Concentration: 4.0919 ug/L

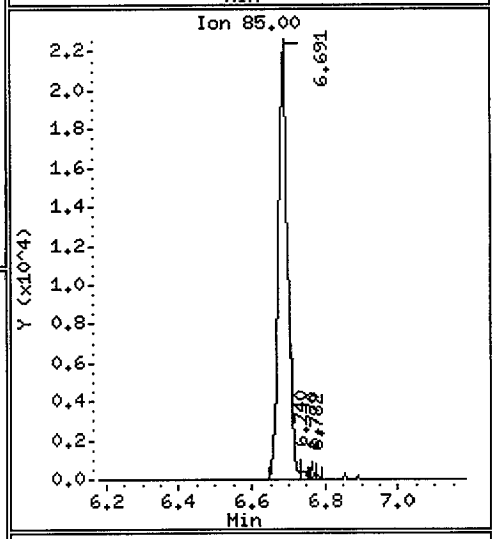


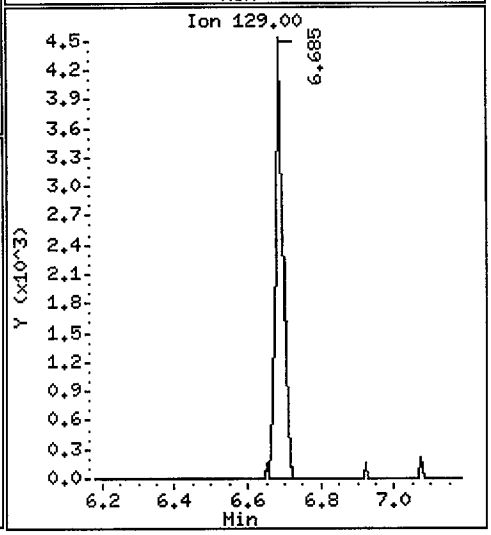












Data File: /chem/gcms/mz.i/Z040506.b/h2hq01aa.d

Date : 05-APR-2006 23:16

Client ID: G-3003-R2-MAKE-UP W

Instrument: mz.i

Sample Info: H2HQ01AA,1,0,,

Purge Volume: 25.0

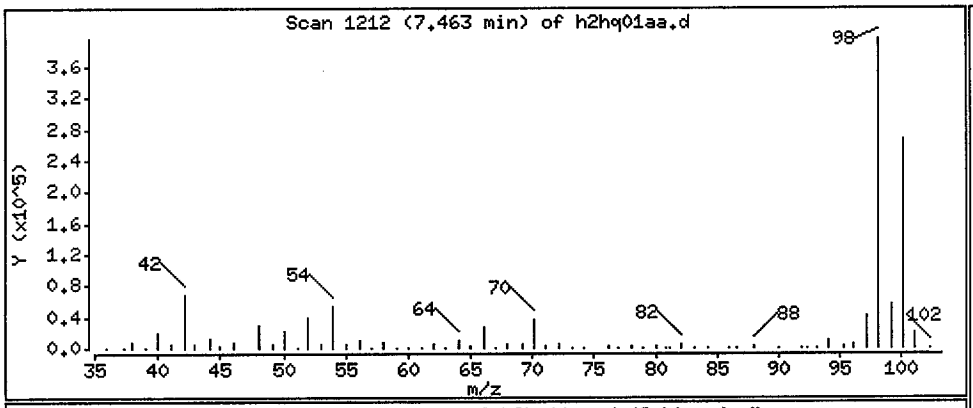
Operator: 063605

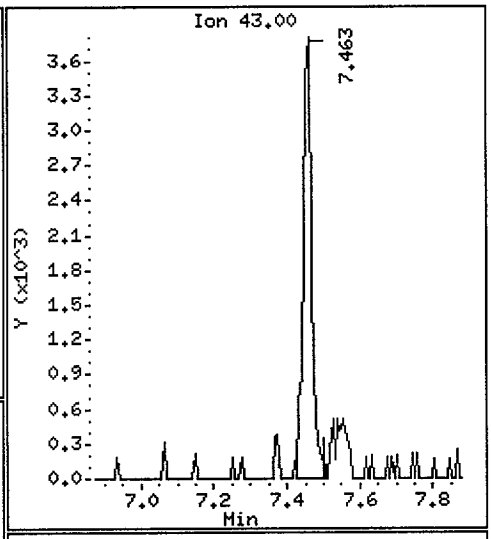
Column phase: J+W 624

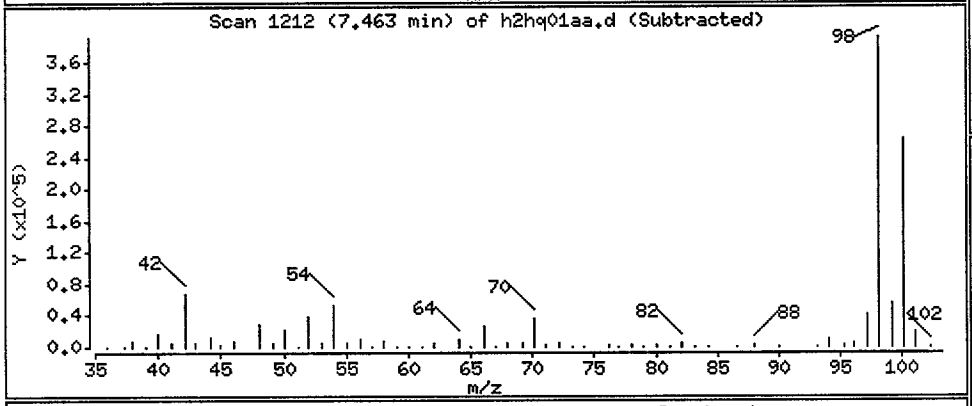
Column diameter: 0.18

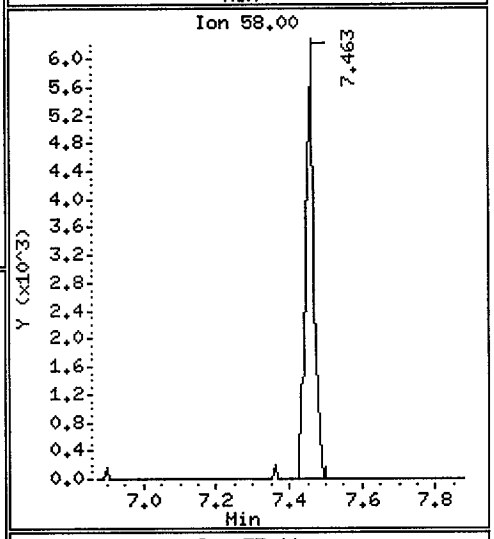
53 4-Methyl-2-pentanone

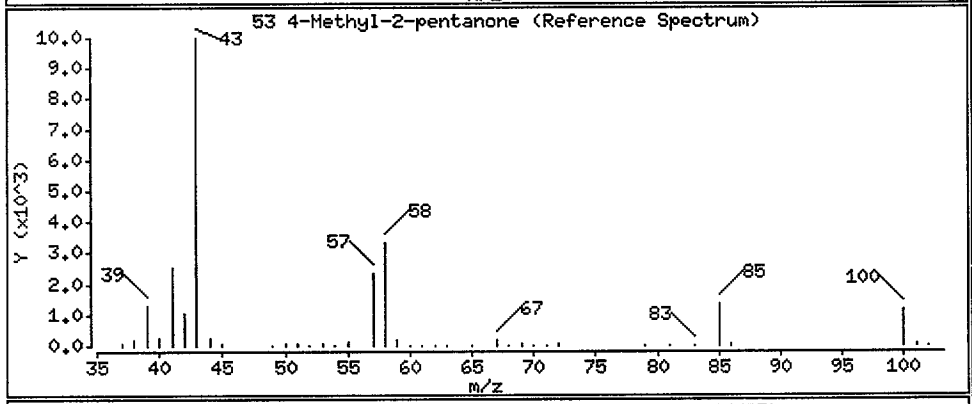
Concentration: 0.80222 ug/L

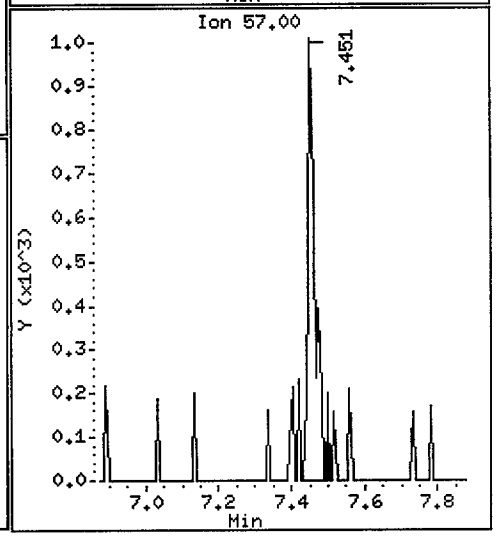


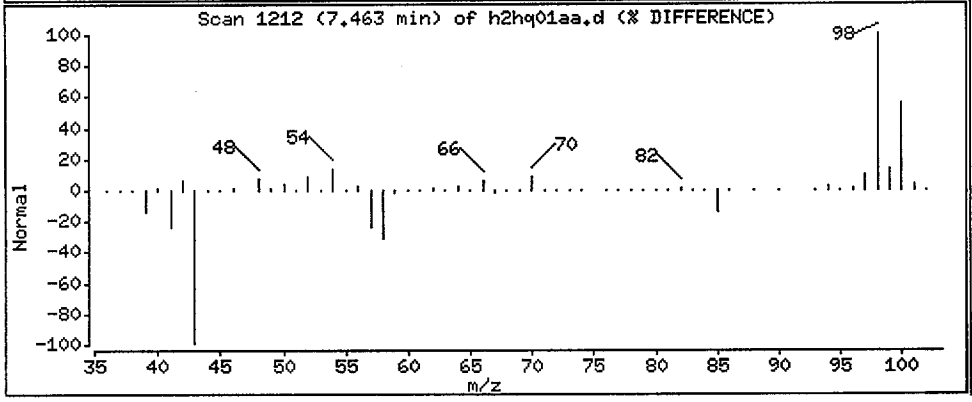












Data File: /chem/gcms/mz.i/Z040506.b/h2hq01aa.d

Date : 05-APR-2006 23:16

Client ID: G-3003-R2-MAKE-UP W

Instrument: mz.i

Sample Info: H2HQ01AA,1,0,,

Purge Volume: 25.0

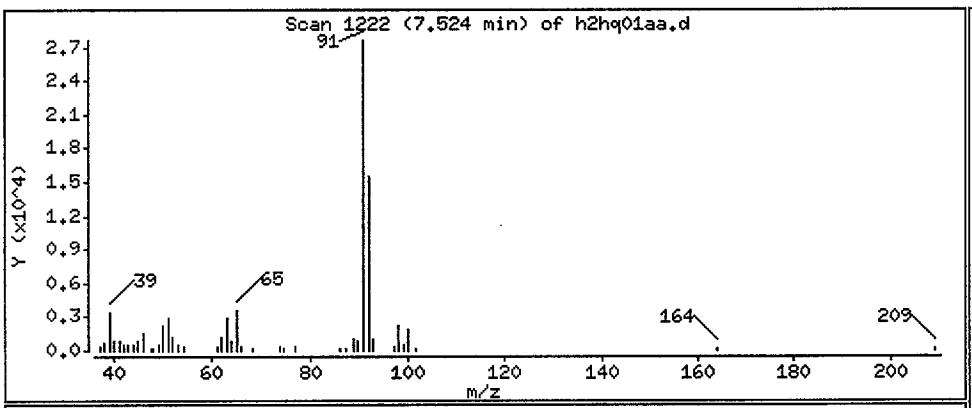
Operator: 063605

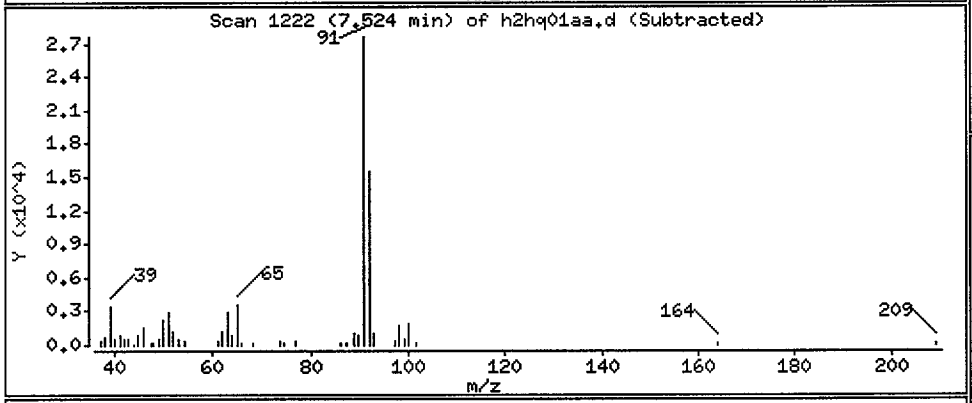
Column phase: J+W 624

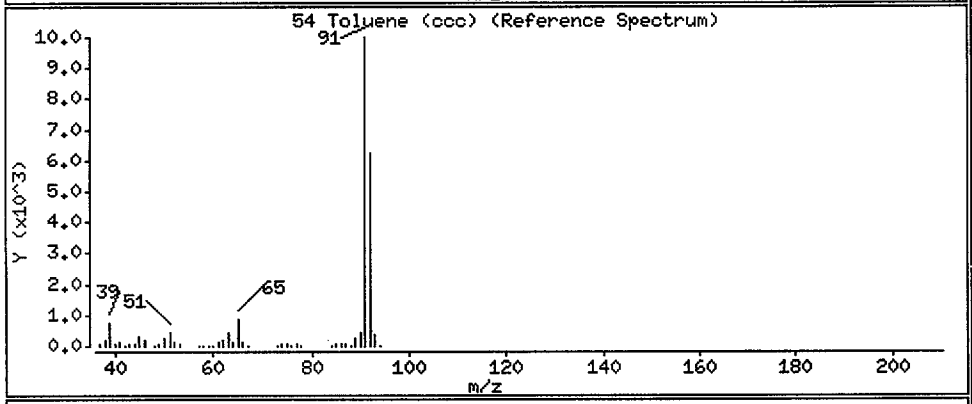
Column diameter: 0.18

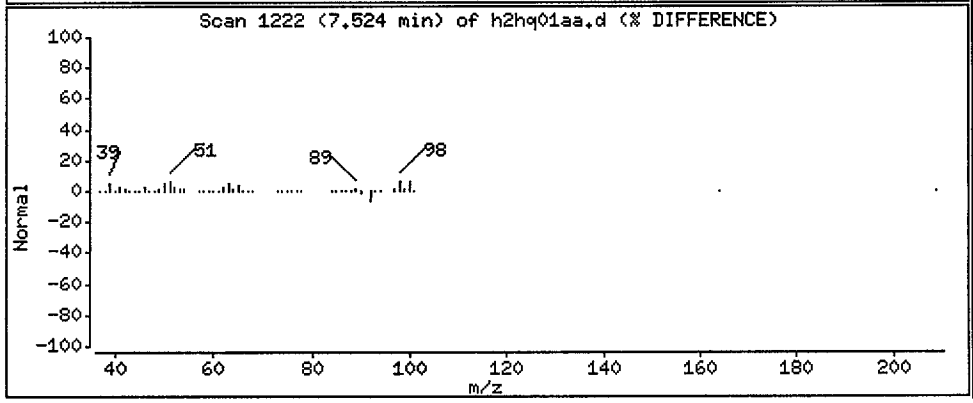
54 Toluene (ccc)

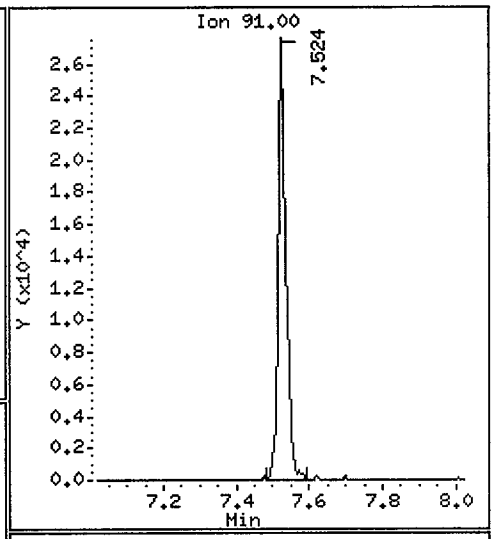
Concentration: 0.41168 ug/L

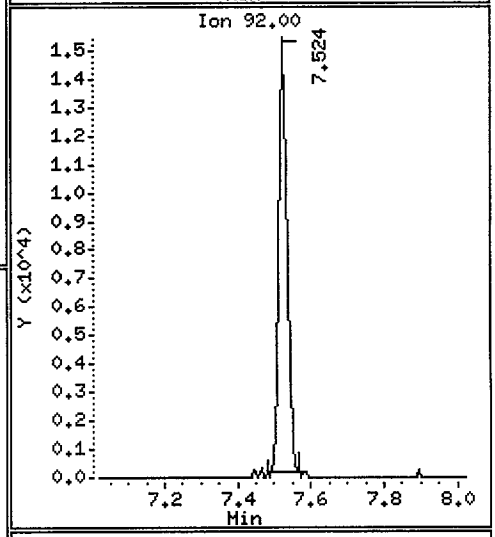


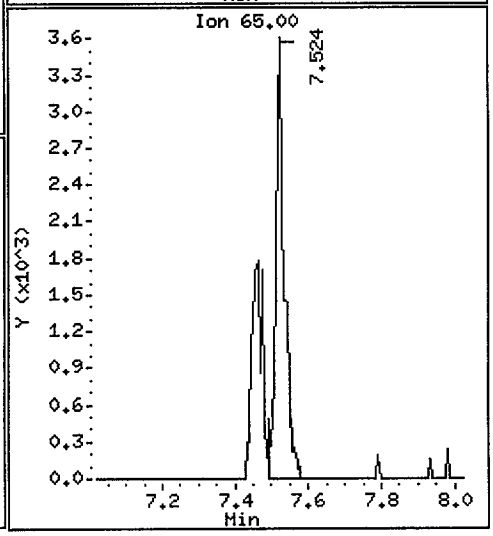












Data File: /chem/gcms/mz.i/Z040506.b/h2hq01aa.d

Date : 05-APR-2006 23:16

Client ID: G-3003-R2-MAKE-UP W

Instrument: mz.i

Sample Info: H2HQ01AA,1,0,,

Purge Volume: 25.0

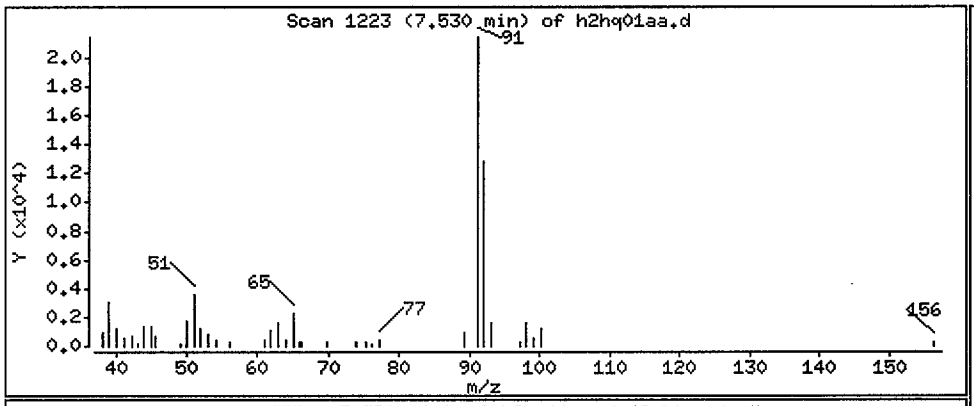
Operator: 063605

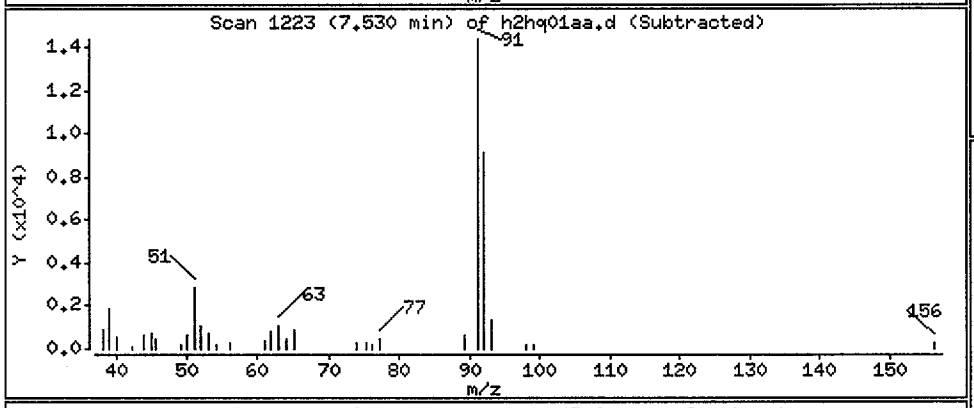
Column phase: J+W 624

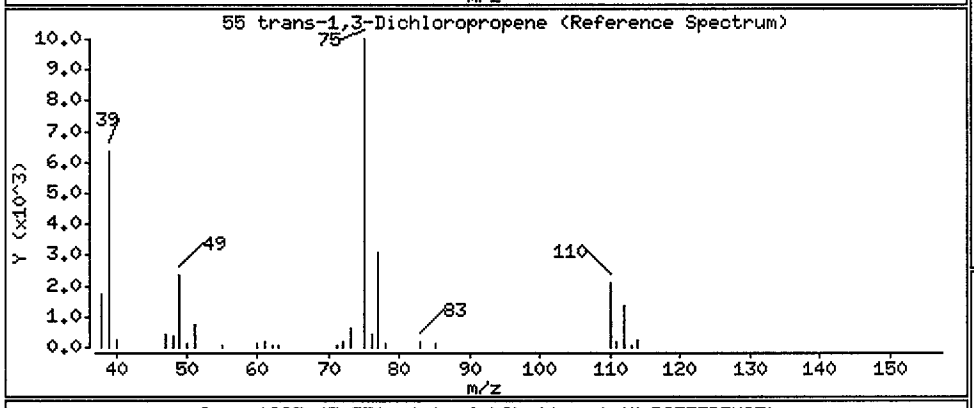
Column diameter: 0.18

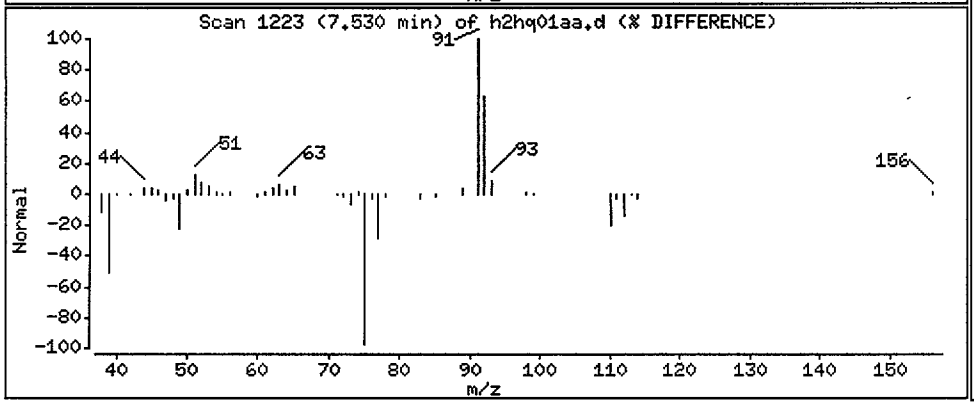
55 trans-1,3-Dichloropropene

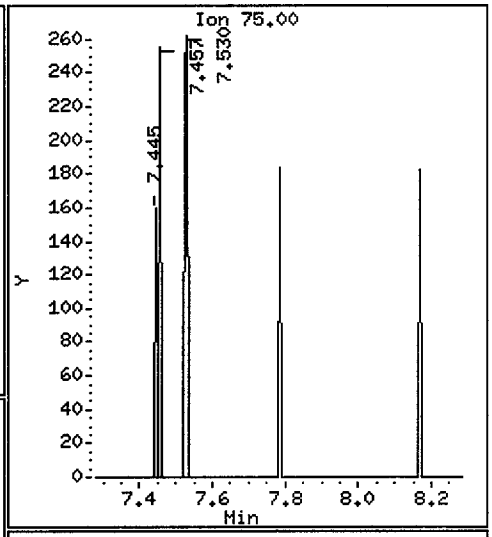
Concentration: 0.63683 ug/L

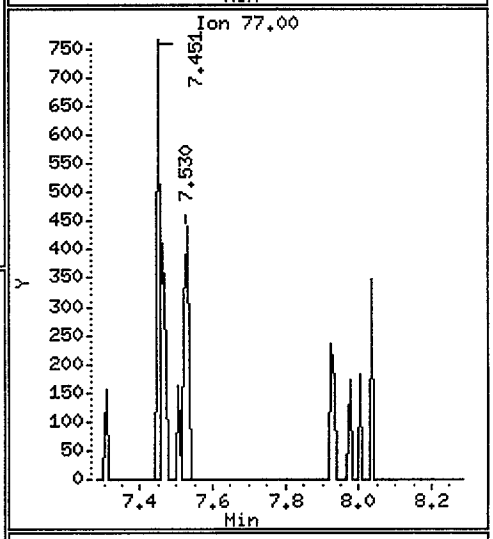


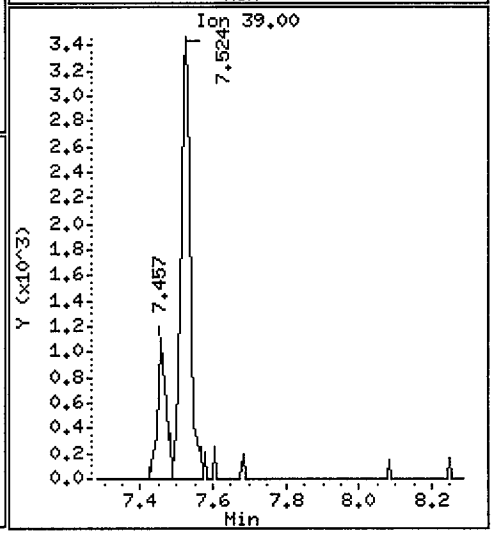












Data File: /chem/gcms/mz.i/Z040506.b/h2hq01aa.d

Date : 05-APR-2006 23:16

Client ID: G-3003-R2-MAKE-UP W

Instrument: mz.i

Sample Info: H2HQ01AA,1,0,,

Purge Volume: 25.0

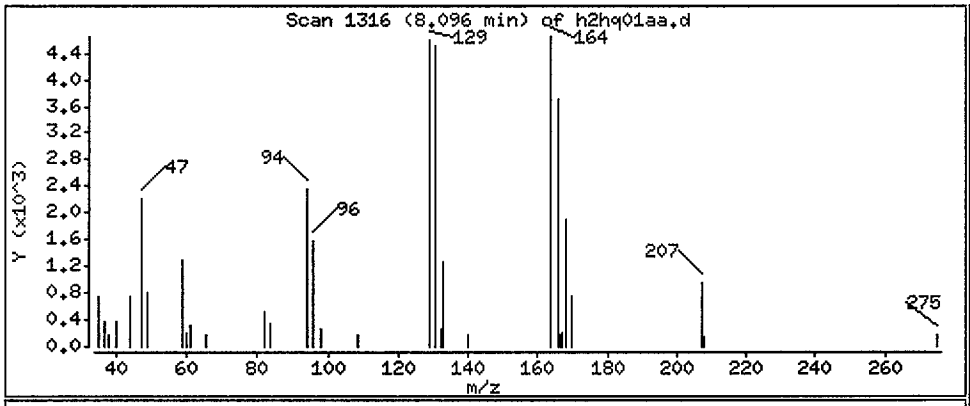
Operator: 063605

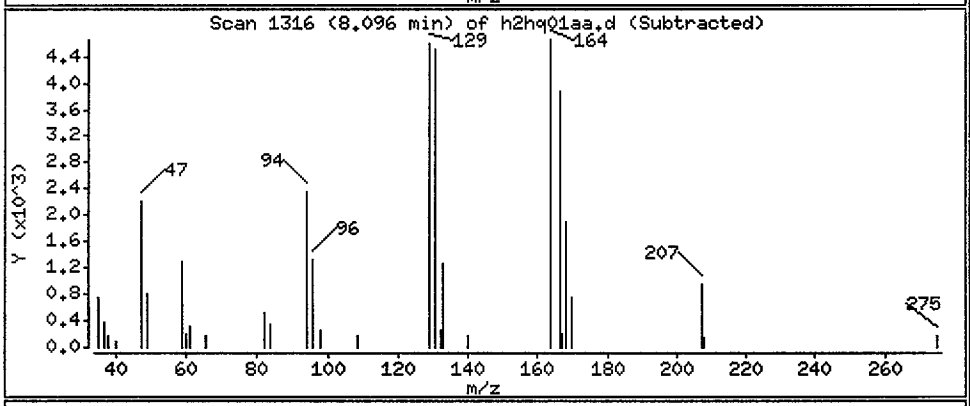
Column phase: J+W 624

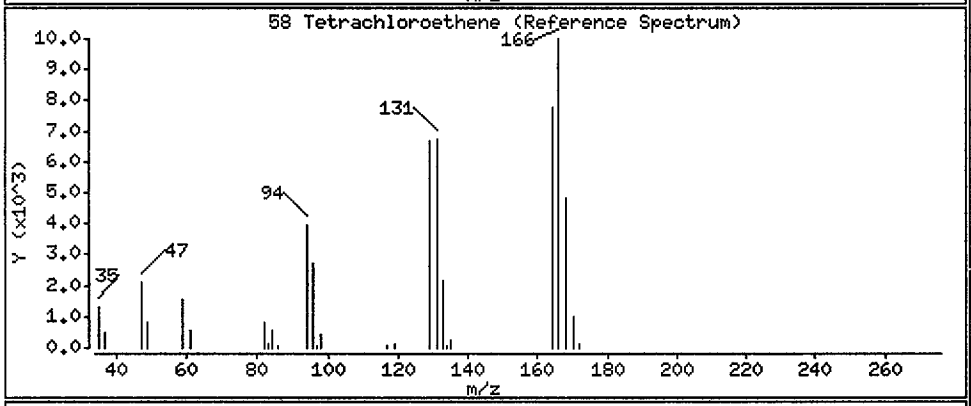
Column diameter: 0.18

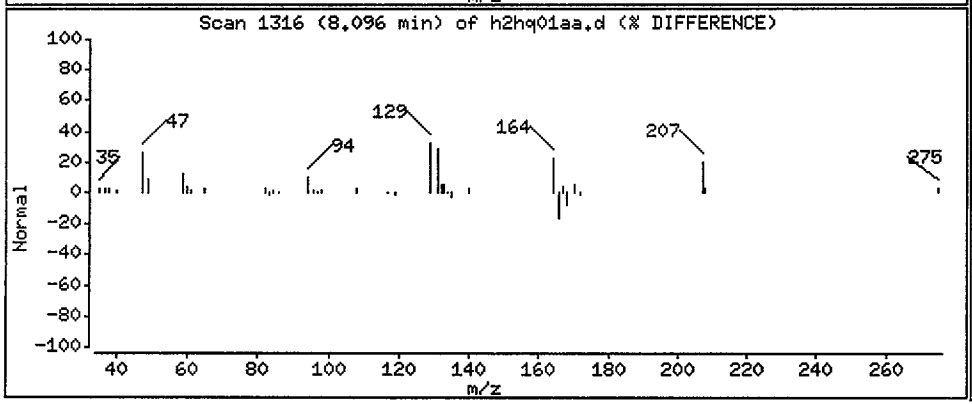
58 Tetrachloroethene

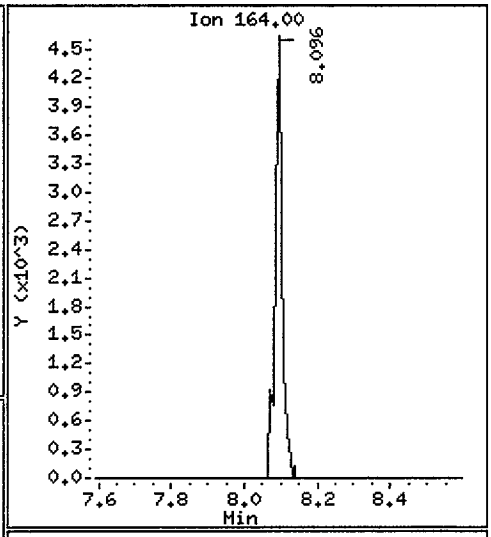
Concentration: 0.31274 ug/L

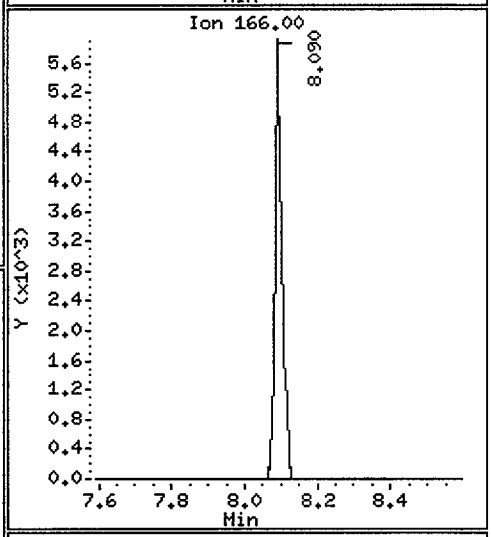


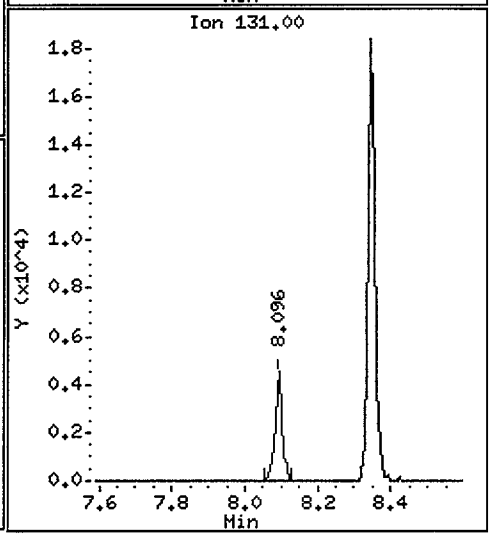












Data File: /chem/gcms/mz.i/Z040506.b/h2hq01aa.d

Date : 05-APR-2006 23:16

Client ID: G-3003-R2-MAKE-UP W

Instrument: mz.i

Sample Info: H2HQ01AA,1,0,,

Purge Volume: 25.0

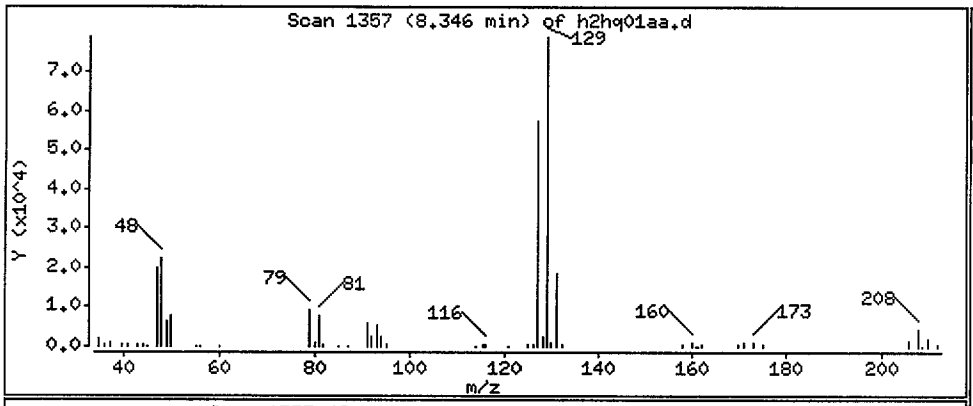
Operator: 063605

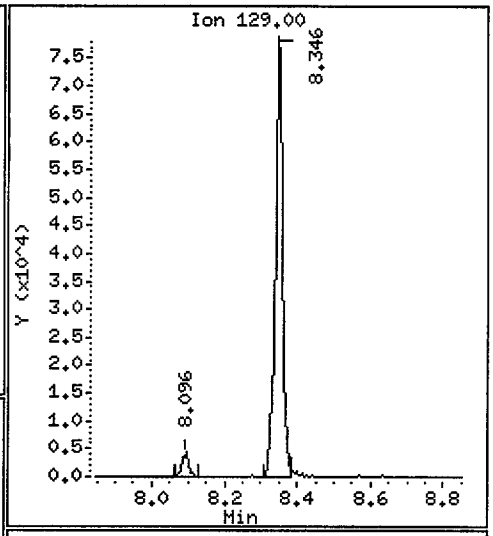
Column phase: J+W 624

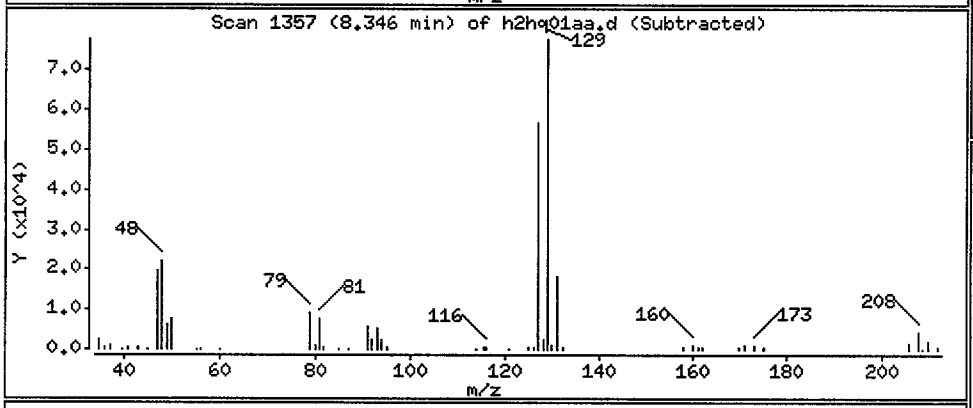
Column diameter: 0.18

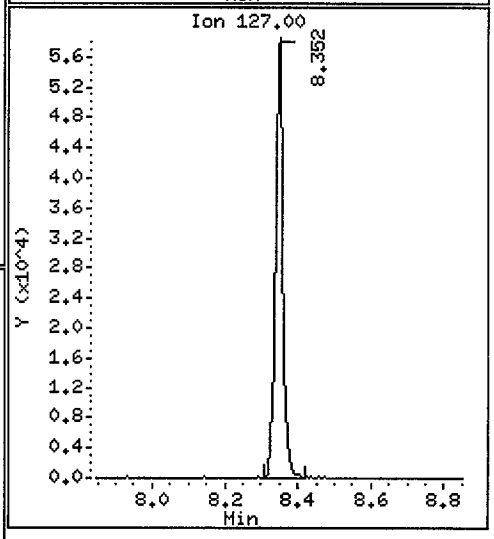
61 Chlorodibromomethane

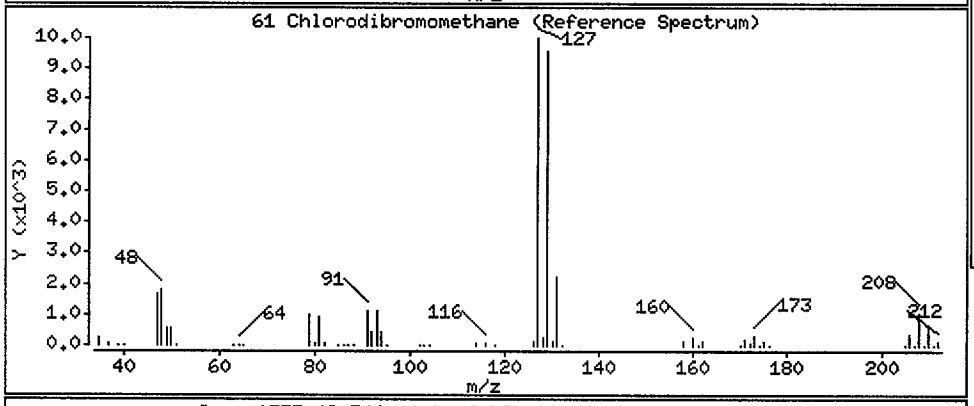
Concentration: 12.926 ug/L

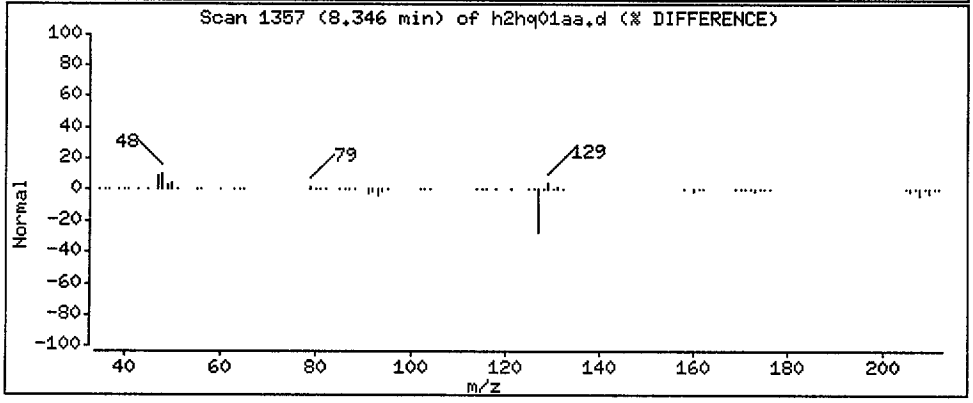












Data File: /chem/gcms/mz.i/Z040506.b/h2hq01aa.d

Date : 05-APR-2006 23:16

Client ID: G-3003-R2-MAKE-UP W

Instrument: mz.i

Sample Info: H2HQ01AA,1,0,,

Purge Volume: 25.0

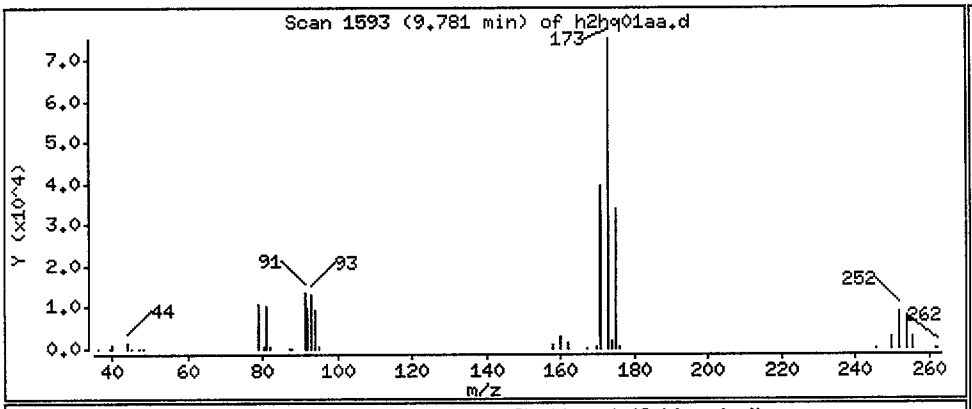
Operator: 063605

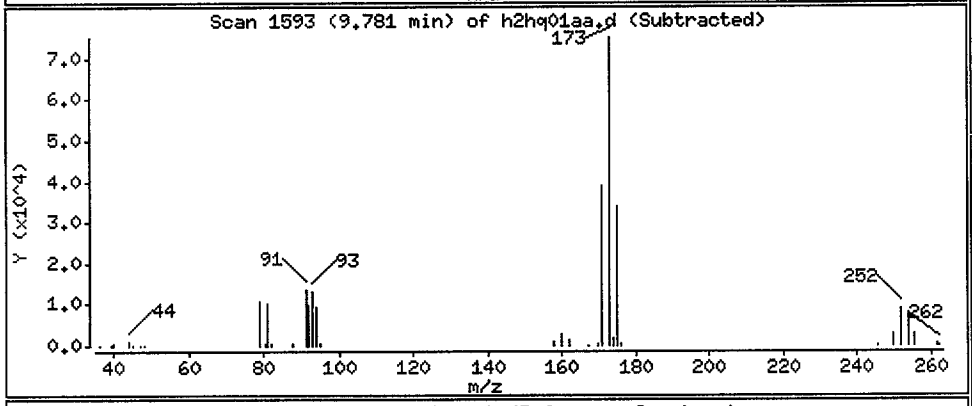
Column phase: J+W 624

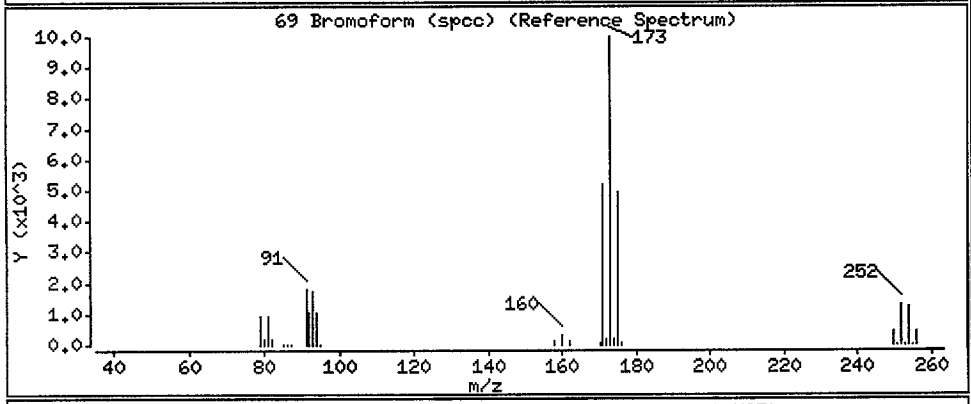
Column diameter: 0.18

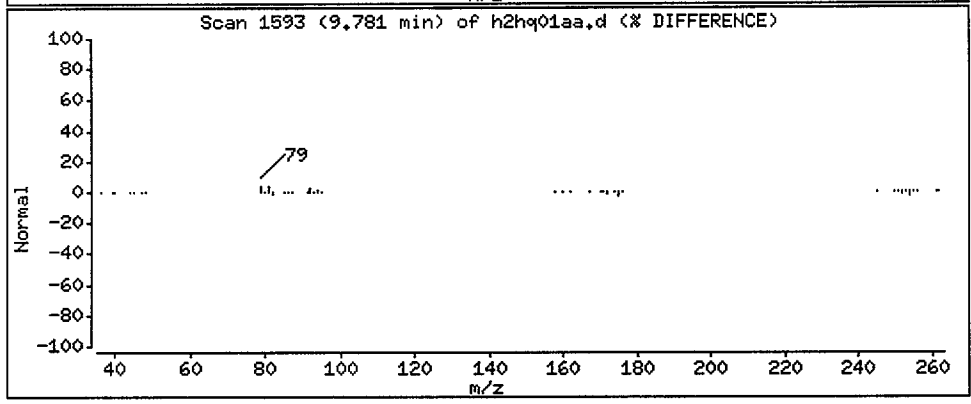
69 Bromoform (spcc)

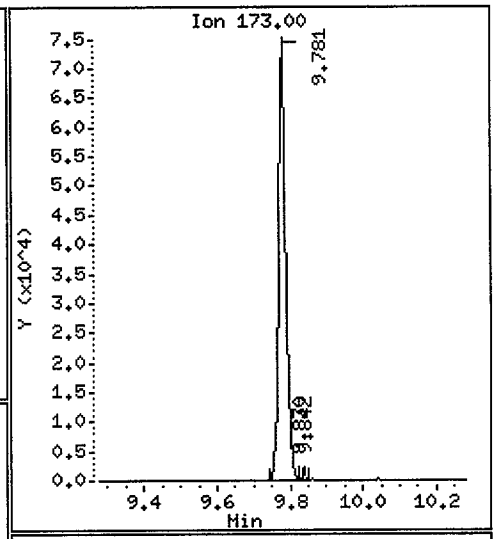
Concentration: 32.022 ug/L

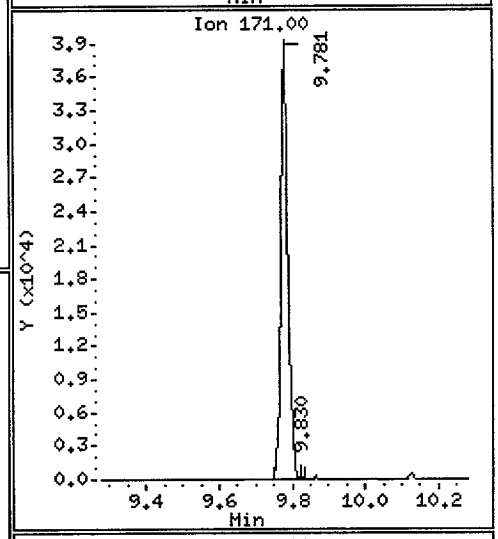


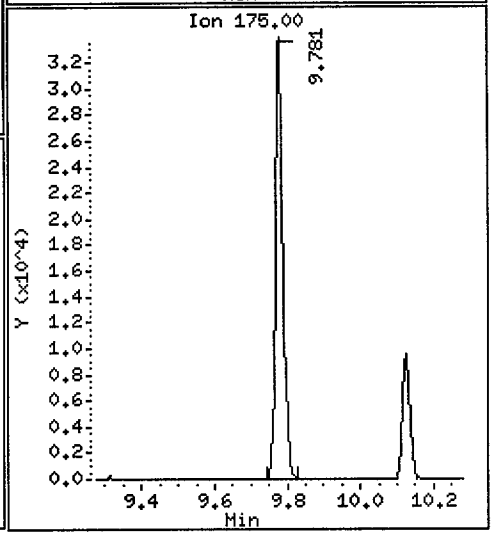












Data File: /var/chem/gcms/mz.i/Z040506.b/h2hq01aa.d
Report Date: 07-Apr-2006 13:56

STL Knoxville

Volatile Organics by GC/MS

Data file : /var/chem/gcms/mz.i/Z040506.b/h2hq01aa.d
Lab Smp Id: H2HQ01AA Client Smp ID: G-3003-R2-MAKE-UP W
Inj Date : 05-APR-2006 23:16
Operator : 063605 Inst ID: mz.i
Smp Info : H2HQ01AA,1,0,,
Misc Info : Z040506,8260B_LM,focus.sub
Comment : Volatile Organics by GC/MS
Method : /var/chem/gcms/mz.i/Z040506.b/8260B_LM.m
Meth Date : 06-Apr-2006 17:11 tillerm Quant Type: ISTD
Cal Date : 24-MAR-2006 13:51 Cal File: icvzc248.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: focus.sub
Target Version: 3.50
Processing Host: qmidhp01

Concentration Formula: Amt * DF * Uf*Vt/(Vo*1000) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Unit Correction factor
Vt	25000.00000	Sample Volume Purged
Vo	25.00000	Sample Volume Used

Cpnd Variable Local Compound Variable

ISTD	RT	HEIGHT	AMOUNT
* 1 Fluorobenzene	5.669	1027208	10.000

	CONCENTRATIONS			QUANT		
RT	HEIGHT	ON-COL(ug/L)	FINAL(ug/L)	QUAL	LIBRARY	LIB ENTRY	CPND #
Carbon dioxide				CAS #: 124-38-9			
0.906	6904659	67.2177300	67.218	5	NIST05.1	80	1

Air

MT 4/7/06

Data File: /var/chem/gcms/mz.i/Z040506.b/h2hq01aa.d

Date : 05-APR-2006 23:16

Client ID: G-3003-R2-MAKE-UP W

Instrument: mz.i

Sample Info: H2HQ01AA,1,0,,

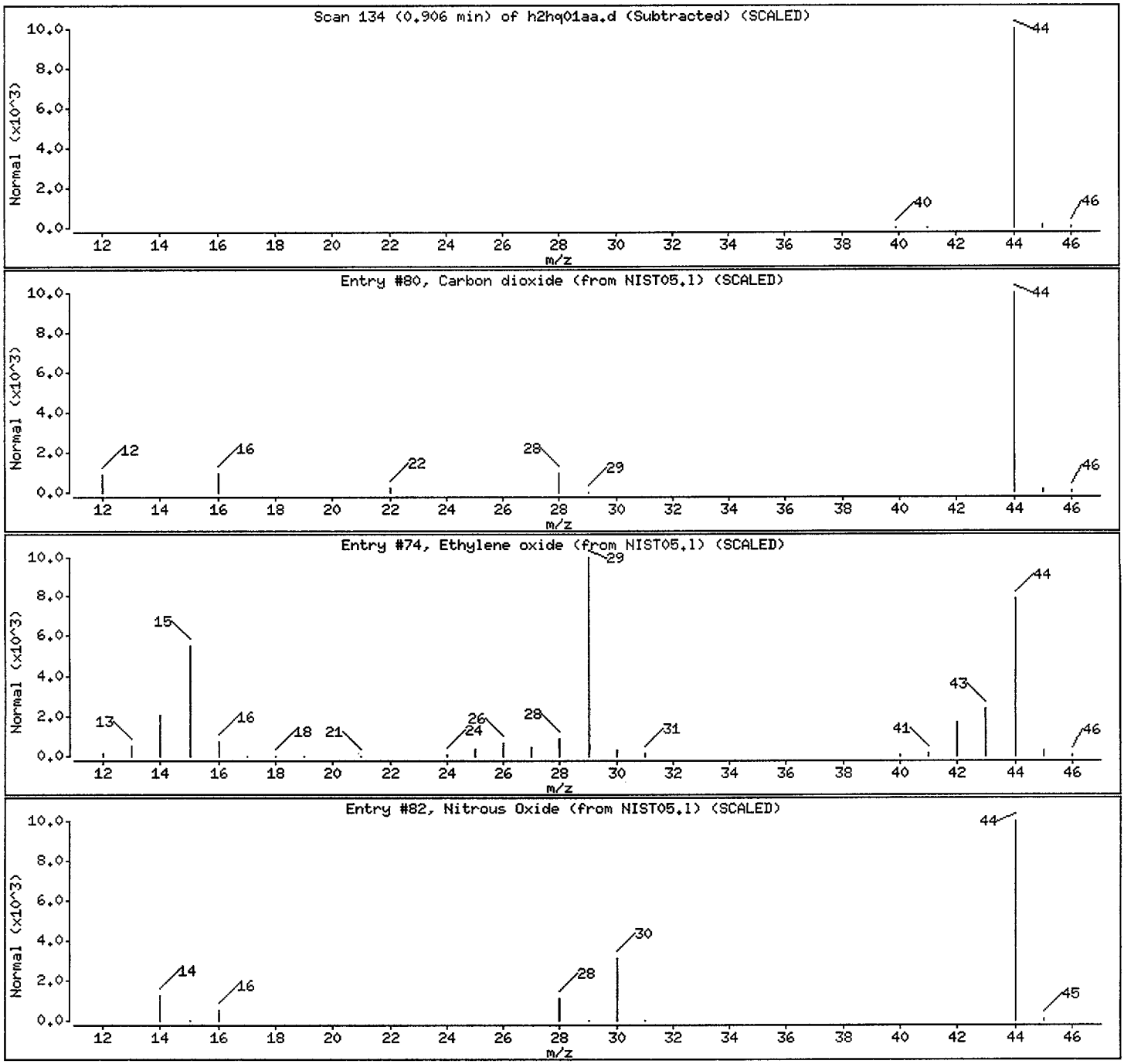
Purge Volume: 25.0

Operator: 063605

Column phase: J+W 624

Column diameter: 0.18

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Carbon dioxide	124-38-9	NIST05.l	80	5	CO2	44
Ethylene oxide	75-21-8	NIST05.l	74	3	C2H4O	44
Nitrous Oxide	10024-97-2	NIST05.l	82	3	N2O	44



STL Knoxville - ACS

Client Sample ID: G-3070-R3-SPENT ACTIVATED CARBON

GC/MS Volatiles

Lot-Sample #...: H6D030205-010 **Work Order #...:** H2HQ41AA **Matrix.....:** SOLID
Date Sampled...: 03/30/06 **Date Received..:** 04/02/06
Prep Date.....: 04/04/06 **Analysis Date..:** 04/04/06
Prep Batch #...: 6094386
Dilution Factor: 5 **Method.....:** SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	**2400 J,B**	**5000**	**ug/kg**	**1200**
Acrylonitrile	ND	25000	ug/kg	3800
Benzene	**1000 J**	**1200**	**ug/kg**	**140**
Bromobenzene	ND	1200	ug/kg	260
Bromochloromethane	ND	1200	ug/kg	170
Bromodichloromethane	ND	1200	ug/kg	120
Bromoform	ND	1200	ug/kg	210
Bromomethane	ND	2500	ug/kg	700
2-Butanone	**1200 J**	**5000**	**ug/kg**	**1000**
n-Butylbenzene	ND	1200	ug/kg	380
sec-Butylbenzene	ND	1200	ug/kg	380
tert-Butylbenzene	ND	1200	ug/kg	340
Carbon disulfide	ND	1200	ug/kg	150
Carbon tetrachloride	ND	1200	ug/kg	120
Chlorobenzene	ND	1200	ug/kg	130
Chlorodibromomethane	ND	1200	ug/kg	120
Chloroethane	ND	2500	ug/kg	280
Chloroform	**1100 J**	**1200**	**ug/kg**	**120**
Chloromethane	ND	2500	ug/kg	1000
2-Chlorotoluene	ND	1200	ug/kg	300
4-Chlorotoluene	ND	1200	ug/kg	300
1,2-Dibromo-3-chloro-propane	ND	2500	ug/kg	140
1,2-Dibromoethane	ND	1200	ug/kg	180
Dibromomethane	ND	1200	ug/kg	120
1,2-Dichlorobenzene	ND	1200	ug/kg	320
1,3-Dichlorobenzene	ND	1200	ug/kg	330
1,4-Dichlorobenzene	ND	1200	ug/kg	330
Dichlorodifluoromethane	ND	2500	ug/kg	160
1,1-Dichloroethane	**260 J**	**1200**	**ug/kg**	**120**
1,2-Dichloroethane	**210 J**	**1200**	**ug/kg**	**140**
cis-1,2-Dichloroethene	**150 J**	**1200**	**ug/kg**	**120**
trans-1,2-Dichloroethene	ND	1200	ug/kg	190
1,1-Dichloroethene	**840 J**	**1200**	**ug/kg**	**240**
1,2-Dichloropropane	ND	1200	ug/kg	180
1,3-Dichloropropane	ND	1200	ug/kg	220
2,2-Dichloropropane	ND	1200	ug/kg	120
cis-1,3-Dichloropropene	ND	1200	ug/kg	120
trans-1,3-Dichloropropene	ND	1200	ug/kg	150

(Continued on next page)

STL Knoxville - ACS

Client Sample ID: G-3070-R3-SPENT ACTIVATED CARBON

GC/MS Volatiles

Lot-Sample #...: H6D030205-010 **Work Order #...:** H2HQ41AA **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1-Dichloropropene	ND	1200	ug/kg	120
Ethylbenzene	ND	1200	ug/kg	240
Hexachlorobutadiene	ND	1200	ug/kg	550
2-Hexanone	ND	5000	ug/kg	800
Iodomethane	ND	2500	ug/kg	490
Isopropylbenzene	ND	1200	ug/kg	280
p-Isopropyltoluene	ND	1200	ug/kg	420
Methylene chloride	ND	1200	ug/kg	420
4-Methyl-2-pentanone	ND	5000	ug/kg	800
Naphthalene	**600 J**	**1200**	**ug/kg**	**240**
n-Propylbenzene	ND	1200	ug/kg	360
Styrene	ND	1200	ug/kg	240
1,1,1,2-Tetrachloroethane	ND	1200	ug/kg	160
1,1,2,2-Tetrachloroethane	ND	1200	ug/kg	210
Tetrachloroethene	**1100 J**	**1200**	**ug/kg**	**210**
Tetrahydrofuran	ND	5000	ug/kg	1000
Toluene	**210 J**	**1200**	**ug/kg**	**180**
1,2,3-Trichlorobenzene	ND	1200	ug/kg	360
1,2,4-Trichloro-benzene	ND	1200	ug/kg	340
1,1,1-Trichloroethane	**11000**	**1200**	**ug/kg**	**120**
1,1,2-Trichloroethane	ND	1200	ug/kg	180
Trichloroethene	**20000**	**1200**	**ug/kg**	**140**
Trichlorofluoromethane	ND	2500	ug/kg	320
1,2,3-Trichloropropane	ND	1200	ug/kg	270
1,1,2-Trichloro-1,2,2-trifluoroethane	**1100 J**	**1200**	**ug/kg**	**200**
1,2,4-Trimethylbenzene	ND	1200	ug/kg	320
1,3,5-Trimethylbenzene	ND	1200	ug/kg	310
Vinyl acetate	ND	2500	ug/kg	600
Vinyl chloride	ND	1200	ug/kg	140
m-Xylene & p-Xylene	ND	1200	ug/kg	480
o-Xylene	ND	1200	ug/kg	210
Xylenes (total)	ND	1200	ug/kg	700

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	9.3 *	(42 - 138)
1,2-Dichloroethane-d4	10 *	(38 - 144)
Toluene-d8	0.75 *	(52 - 137)
Bromofluorobenzene	2.2 *	(54 - 151)

NOTE(S):

* Surrogate recovery is outside stated control limits.

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

STL Knoxville - ACS

Client Sample ID: G-3070-R3-SPENT ACTIVATED CARBON

GC/MS Volatiles

Lot-Sample #...: H6D030205-010 Work Order #...: H2HQ41AA Matrix.....: SOLID

NOTE(S):

* Surrogate recovery is outside stated control limits.

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

STL Knoxville - ACS

G-3070-R3-SPENT ACTIVATED CARBON

GC/MS Volatiles

Lot-Sample #: H6D030205-010 **Work Order #:** H2HQ41AA **Matrix:** SOLID

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT		RETENTION TIME	UNITS
Isobutane	75-28-5	6500 NJ	M	0.9784	ug/kg
Unknown		1500 NJ	M	1.094	ug/kg
Naphthalene, 1,3-dimethyl-	575-41-7	2200 NJ	M	10.05	ug/kg
Naphthalene, 2,6-dimethyl-	581-42-0	1600 NJ	M	10.245	ug/kg
Naphthalene, 1,2,3,4-tetrahydr	3877-19-8	1300 NJ	M	12.167	ug/kg
Naphthalene, 1,2,3,4-tetrahydr	2809-64-5	3500 NJ	M	12.626	ug/kg
Naphthalene, 1,2,3,4-tetrahydr	2809-64-5	2300 NJ	M	12.918	ug/kg
Naphthalene, 1-methyl-	90-12-0	11000 NJ	M	13.085	ug/kg
Naphthalene, 1-methyl-	90-12-0	5400 NJ	M	13.252	ug/kg

NOTE(S):

M: Result was measured against nearest internal standard assuming a response factor of 1.

Data File: /chem/gcms/mk.i/K040406.b/h2hq41aa.d
Report Date: 04-Apr-2006 20:39

STL Knoxville

Volatile Organics by GC/MS

Data file : /chem/gcms/mk.i/K040406.b/h2hq41aa.d
Lab Smp Id: H2HQ41AA Client Smp ID: G-3070-R3-SPENT ACT
Inj Date : 04-APR-2006 20:24
Operator : 063605 Inst ID: mk.i
Smp Info : H2HQ41AA,5,0,,
Misc Info : K040406,MS8260NM,focus.sub
Comment : Volatile Organics by GC/MS
Method : /var/chem/gcms/mk.i/K040406.b/MS8260NM.m
Meth Date : 04-Apr-2006 19:31 tillerm Quant Type: ISTD
Cal Date : 03-FEB-2006 14:40 Cal File: fickb038.d
Als bottle: 1
Dil Factor: 5.00000
Integrator: HP RTE Compound Sublist: focus.sub
Target Version: 3.50
Processing Host: qmidhp01

Concentration Formula: Amt * DF * (Vt*5)/(Ws*Va) * CpndVariable

Vt	5000.00000	Sample Volume Purged
Ws	4.99000	Weight of sample
Va	100.00000	Volume of Methanol Aliquot

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/Kg)
*	1 Fluorobenzene	96	4.287	4.284	(1.000)	994473	50.0000	
*	2 Chlorobenzene-d5	117	6.777	6.780	(1.000)	670529	50.0000	
*	3 1,4 Dichlorobenzene-d4	152	9.498	9.498	(1.000)	268587	50.0000	
$	4 1,2-Dichloroethane-d4	65	4.017	4.017	(0.937)	4814	1.00460	251.65(R)
$	5 Dibromofluoromethane	113	3.751	3.751	(0.875)	4122	0.93288	233.69(R)
$	6 Toluene-d8	98	5.564	5.564	(0.821)	1344	0.07537	18.880(R)
$	7 4-Bromofluorobenzene	95	7.923	7.913	(0.834)	1427	0.21958	55.005(R)
M	8 1,2-Dichloroethene (total)	96				3052	0.60470	151.48
	11 Chloromethane (spcc)	50	0.978	1.011	(0.228)	7169	~~0.55772~~	~~139.71~~
	14 Bromomethane	94	1.338	1.338	(0.312)	1532	1.39581	349.65
	15 Chloroethane	64	1.293	1.415	(0.302)	649	~~0.57215~~	~~143.32~~
	17 Trichlorofluoromethane	101	1.992	1.607	(0.465)	4603	~~0.54440~~	~~136.37~~
	19 1,1-Dichloroethene (ccc)	96	2.002	2.005	(0.467)	12465	3.35903	841.44
	20 *Freon 113	151	2.005	2.005	(0.468)	12514	4.29154	1075.0
	21 Acetone	43	2.034	2.041	(0.475)	10114	9.58866	2402.0
	22 *Iodomethane	142	2.124	2.131	(0.495)	4233	0.96572	241.91
	26 Methylene Chloride	84	2.378	2.384	(0.555)	4390	0.92880	232.67
	32 1,1-Dichloroethane (spcc)	63	2.926	2.926	(0.683)	8895	1.02363	256.42

Data File: /chem/gcms/mk.i/K040406.b/h2hq41aa.d
Report Date: 04-Apr-2006 20:39

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/Kg)
33 *Vinyl Acetate	86	2.820	2.962	(0.658)	4797	6.01152	1505.9
35 cis 1,2-Dichloroethene	96	3.382	3.379	(0.789)	3052	0.60470	151.48
36 2-Butanone	43	3.385	3.382	(0.790)	8366	4.90763	1229.4
39 *THF	42	3.831	3.610	(0.894)	8624	7.47125	1871.6
40 Chloroform (ccc)	83	3.626	3.629	(0.846)	36286	4.50032	1127.3
41 1,1,1-Trichloroethane	97	3.780	3.780	(0.882)	300010	43.0874	10793
42 Carbon Tetrachloride	117	3.783	3.918	(0.882)	37283	6.88567	1724.9
44 Benzene	78	4.069	4.069	(0.949)	78842	4.07832	1021.6
45 1,2-Dichloroethane	62	4.075	4.075	(0.951)	4646	0.81988	205.38
46 Trichloroethene	130	4.579	4.579	(1.068)	375967	80.9707	20283
47 1,2-Dichloropropane (ccc)	63	4.284	4.749	(0.999)	30301	6.25858	1567.8
50 Bromodichloromethane	83	4.576	4.970	(1.067)	4244	0.71757	179.75
54 Toluene (ccc)	91	5.615	5.615	(0.829)	16344	0.82083	205.62
58 Tetrachloroethene	164	6.081	6.081	(0.897)	15344	4.56065	1142.4
61 Chlorodibromomethane	129	6.081	6.276	(0.897)	13632	3.55546	890.65
65 Ethylbenzene (ccc)	106	7.005	6.902	(1.034)	4808	0.71927	180.18
81 1,2,4-Trimethylbenzene	105	9.004	9.004	(0.948)	16324	0.98985	247.96
88 1,2-Dibromo-3-chloropropane	157	10.952	10.945	(1.153)	454	0.65905	165.09
91 Napthalene	128	12.052	12.053	(1.269)	31745	2.37854	595.82

4/5/06

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

Data File: /chem/gcms/mk.i/K040406.b/h2hq41aa.d
Report Date: 04-Apr-2006 20:39

STL Knoxville

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: mk.i
Lab File ID: h2hq41aa.d
Lab Smp Id: H2HQ41AA
Analysis Type: VOA
Quant Type: ISTD
Operator: 063605
Calibration Date: 04-APR-2006
Calibration Time: 17:37
Client Smp ID: G-3070-R3-SPENT ACT
Level: MED
Sample Type: SOIL
Method File: /var/chem/gcms/mk.i/K040406.b/MS8260NM.m
Misc Info: K040406,MS8260NM,focus.sub

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	1075684	537842	2151368	994473	-7.55
2 Chlorobenzene-d5	737847	368924	1475694	670529	-9.12
3 1,4 Dichlorobenze	307012	153506	614024	268587	-12.52

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	4.28	3.78	4.78	4.29	0.07
2 Chlorobenzene-d5	6.78	6.28	7.28	6.78	-0.05
3 1,4 Dichlorobenze	9.50	9.00	10.00	9.50	0.00

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

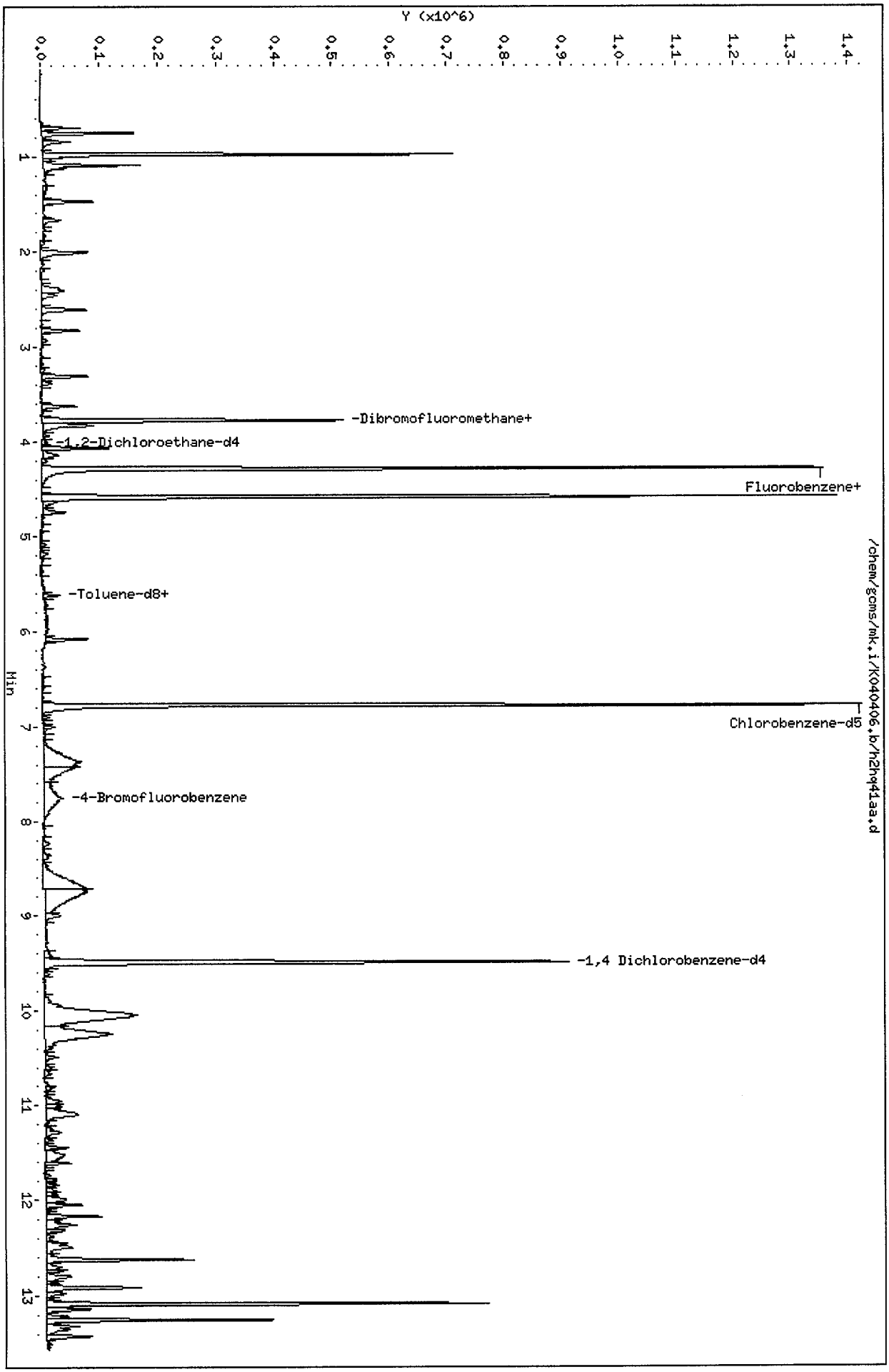
Data File: /chem/gcms/mk.i/K040406.b/h2hq41aa.d
Report Date: 04-Apr-2006 20:39

STL Knoxville

RECOVERY REPORT

Client Name: STL Knoxville - ACS
Sample Matrix: SOLID
Lab Smp Id: H2HQ41AA
Level: MED
Data Type: MS DATA
SpikeList File: fulllist.spk
Sublist File: focus.sub
Client SDG: H6D030205
Fraction: VOA
Client Smp ID: G-3070-R3-SPENT ACT
Operator: 063605
SampleType: SAMPLE
Quant Type: ISTD
Method File: /var/chem/gcms/mk.i/K040406.b/MS8260NM.m
Misc Info: K040406,MS8260NM,focus.sub

SURROGATE COMPOUND	CONC ADDED ug/Kg	CONC RECOVERED ug/Kg	% RECOVERED	LIMITS
$ 4 1,2-Dichloroethane	2505.0	251.65	10.05*	38-144
$ 5 Dibromofluorometha	2505.0	233.69	9.33*	42-138
$ 6 Toluene-d8	2505.0	18.880	0.75*	52-137
$ 7 4-Bromofluorobenze	2505.0	55.005	2.20*	54-151


Data File: /chem/gcms/mk.i/K040406.b/h2hq41aa.d
Date : 04-APR-2006 20:24
Client ID: G-3070-R3-SPENT ACT
Sample Info: H2HQ41AA,5,0,,
Column phase: J&W-624
Instrument: mk.i
Operator: 063005
Column diameter: 0.18
Y (x10^6)
/chem/gcms/mk.i/K040406.b/h2hq41aa.d
-Dibromofluoromethane+
-1,2-Dichloroethane-d4
Fluorobenzene+
-Toluene-d8+
Chlorobenzene-d5
-4-Bromofluorobenzene
-1,4 Dichlorobenzene-d4
Min

Data File: /chem/gcms/mk.i/K040406.b/h2hq41aa.d

Date : 04-APR-2006 20:24

Client ID: G-3070-R3-SPENT ACT

Instrument: mk.i

Sample Info: H2HQ41AA,5,0,,

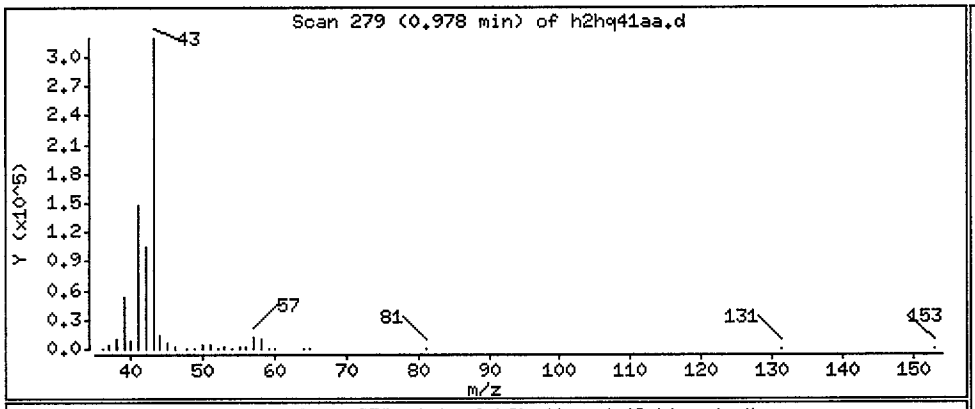
Operator: 063605

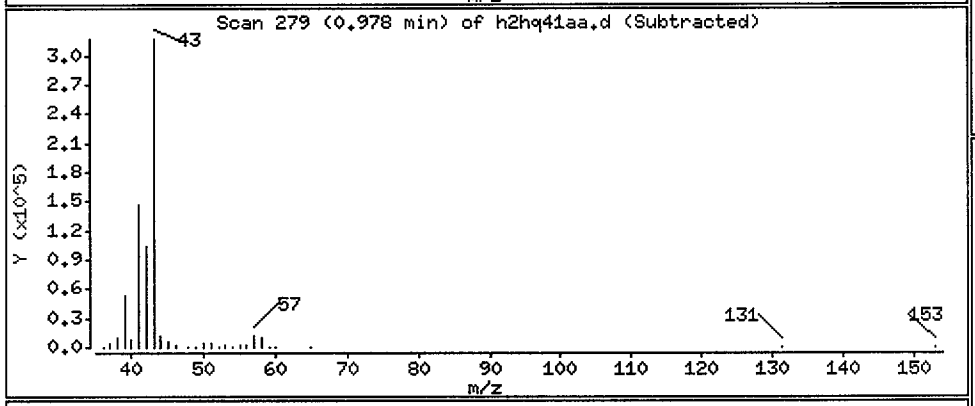
Column phase: J&W-624

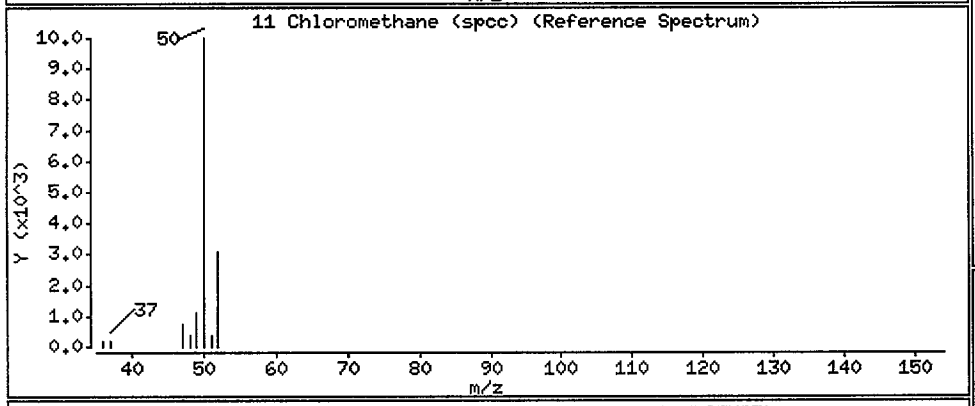
Column diameter: 0.18

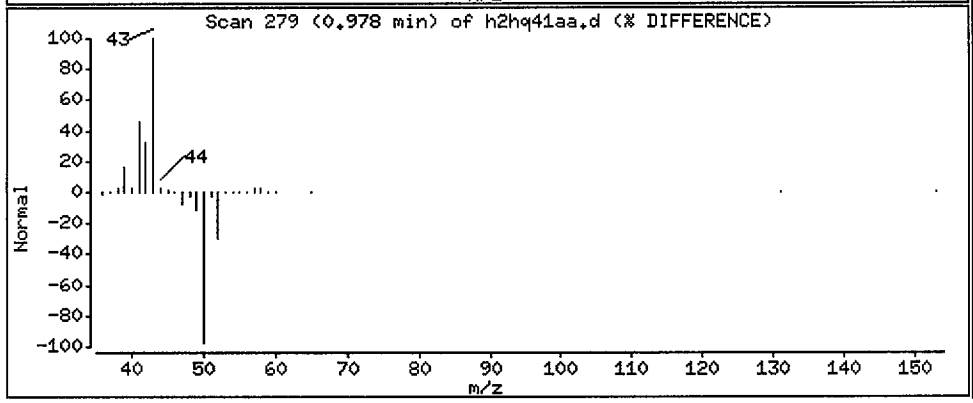
11 Chloromethane (spcc)

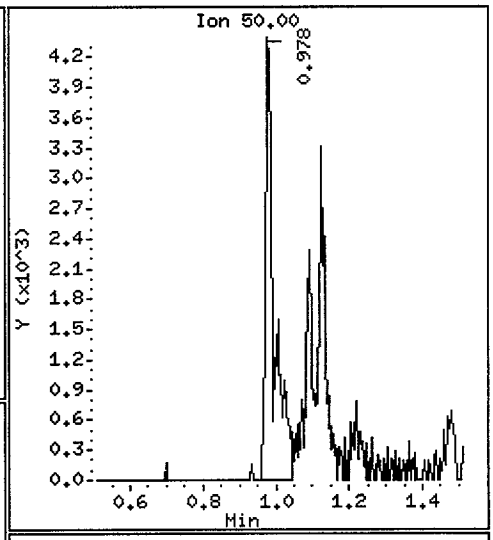
Concentration: 139.71 ug/Kg

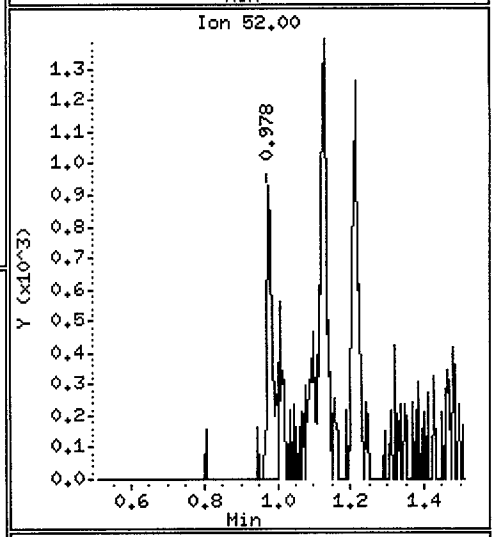


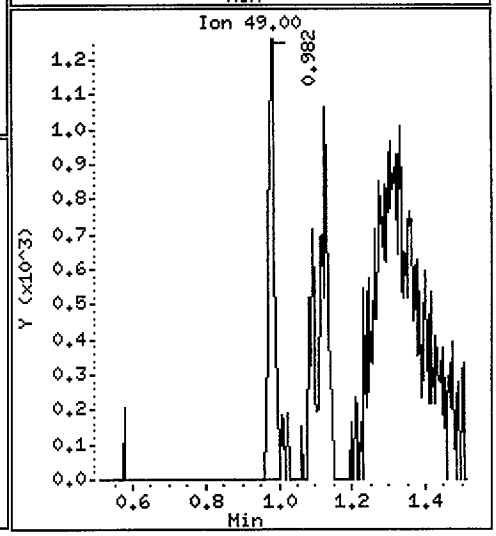












Data File: /chem/gcms/mk.i/K040406.b/h2hq41aa.d

Date : 04-APR-2006 20:24

Client ID: G-3070-R3-SPENT ACT

Instrument: mk.i

Sample Info: H2HQ41AA,5,0,,

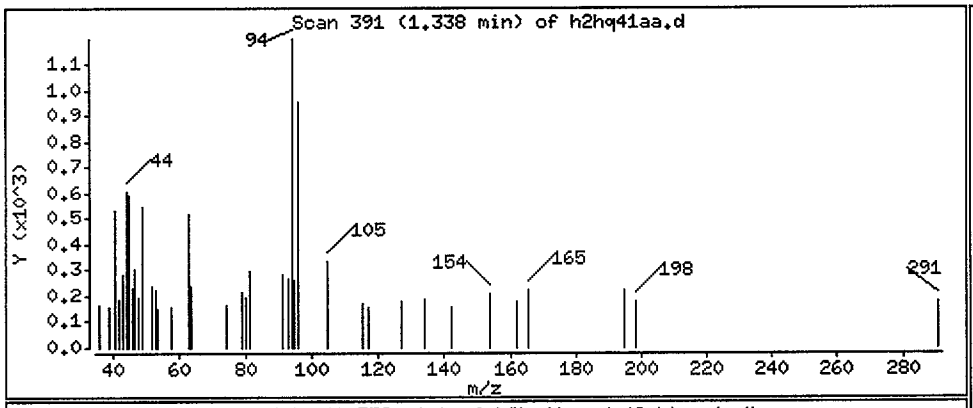
Operator: 063605

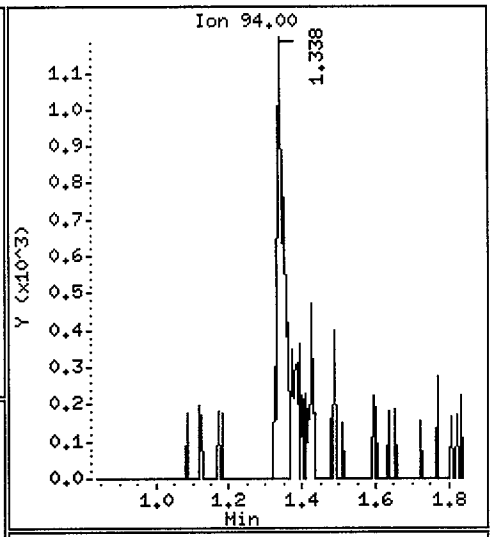
Column phase: J&W-624

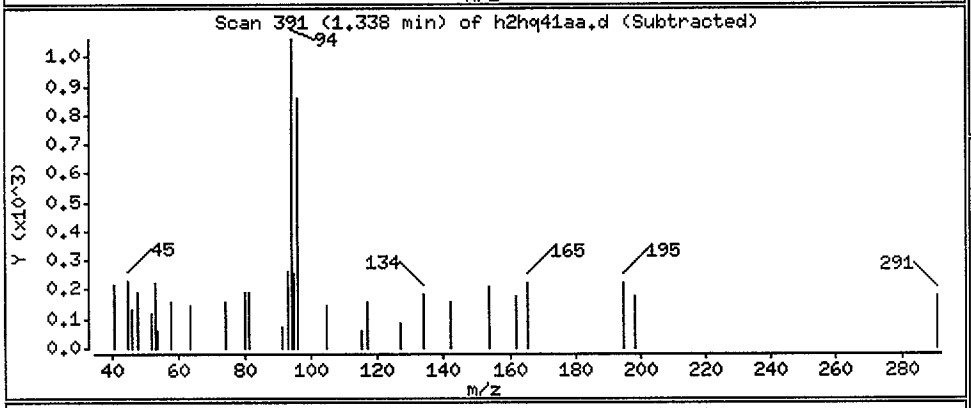
Column diameter: 0.18

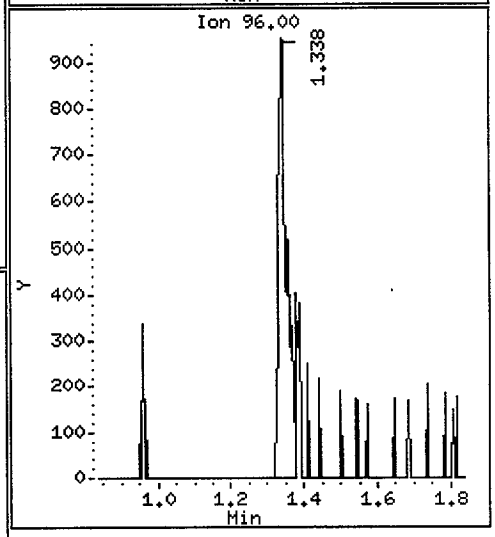
14 Bromomethane

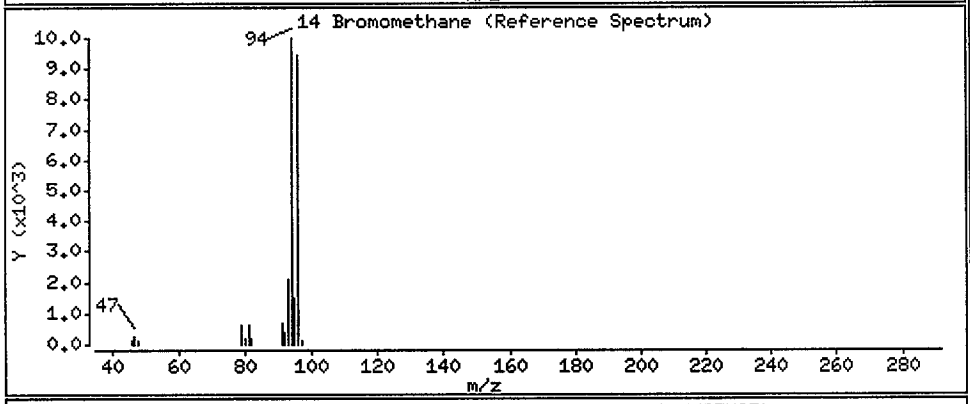
Concentration: 349.65 ug/Kg

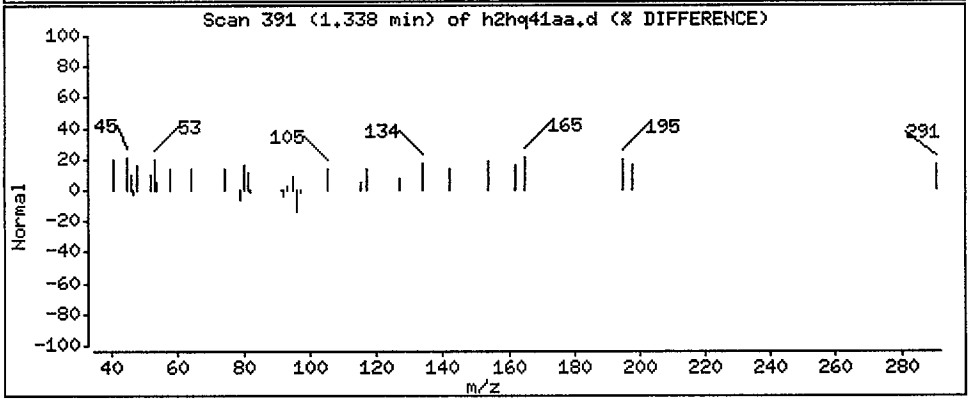












Data File: /chem/gcms/mk.i/K040406.b/h2hq41aa.d

Date : 04-APR-2006 20:24

Client ID: G-3070-R3-SPENT ACT

Instrument: mk.i

Sample Info: H2HQ41AA,5,0,,

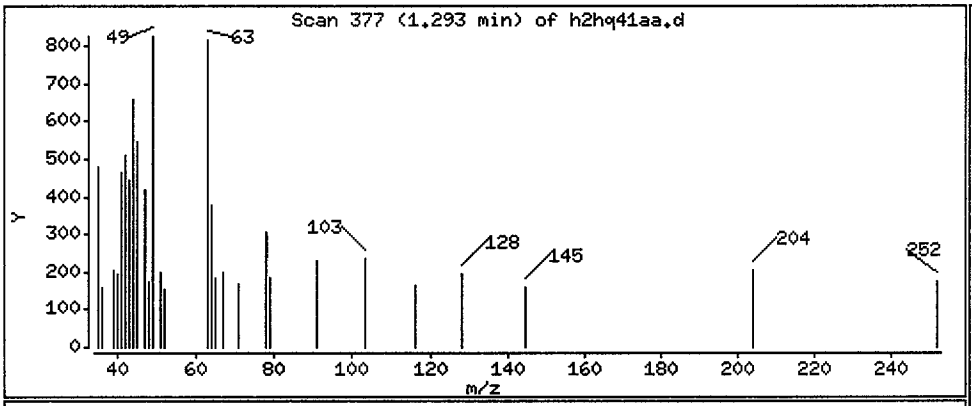
Operator: 063605

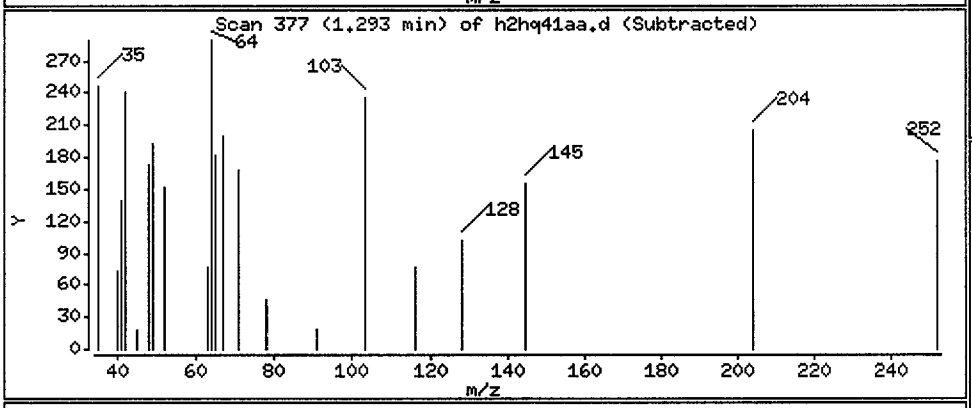
Column phase: J&W-624

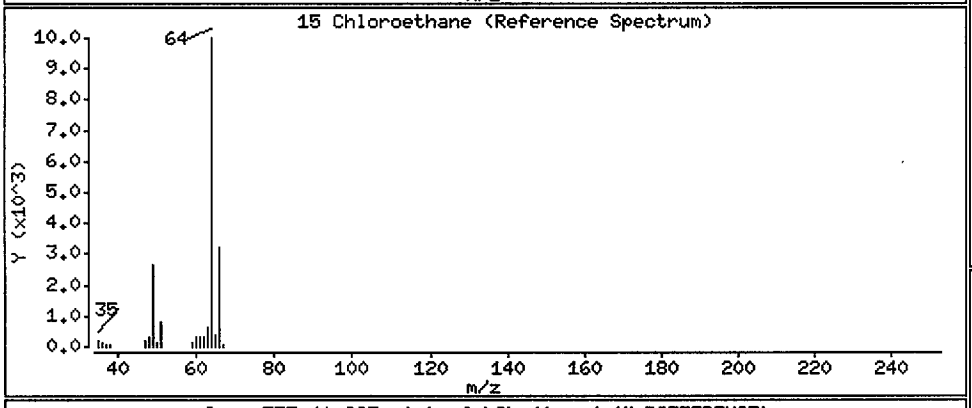
Column diameter: 0.18

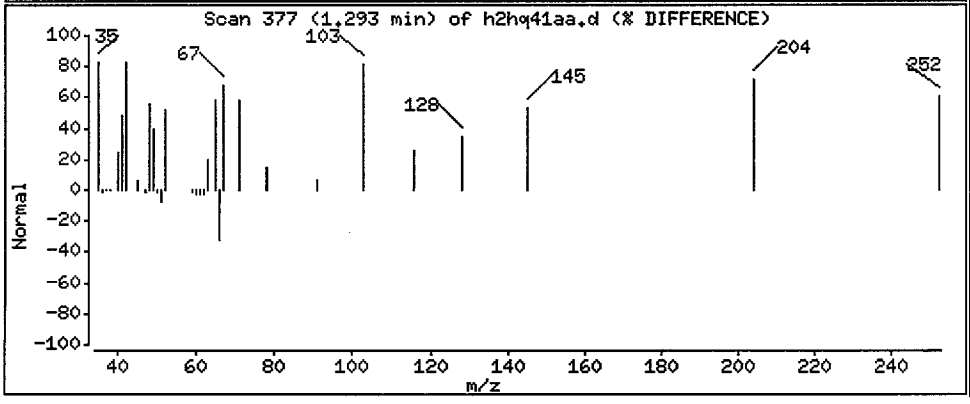
15 Chloroethane

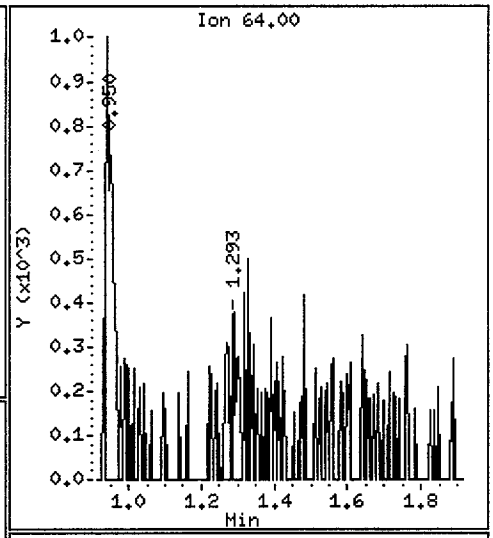
Concentration: 143.32 ug/Kg

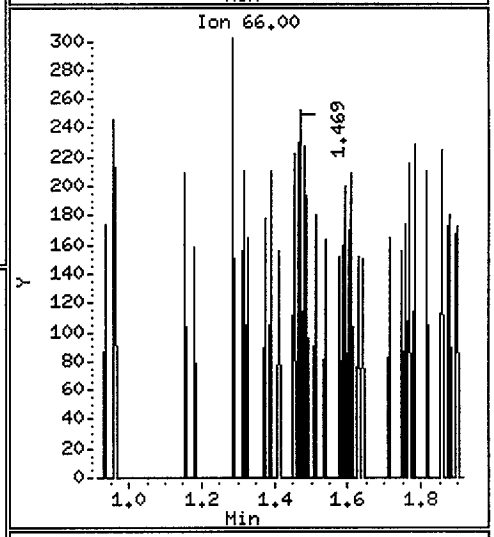


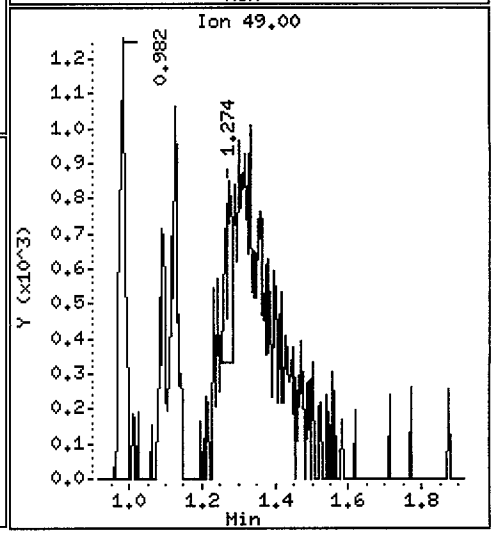












Data File: /chem/gcms/mk.i/K040406.b/h2hq41aa.d

Date : 04-APR-2006 20:24

Client ID: G-3070-R3-SPENT ACT

Instrument: mk.i

Sample Info: H2HQ41AA,5,0,,

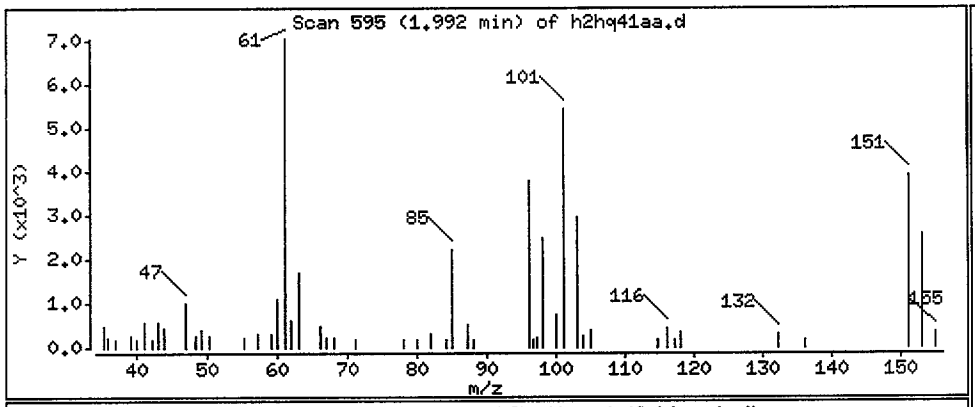
Operator: 063605

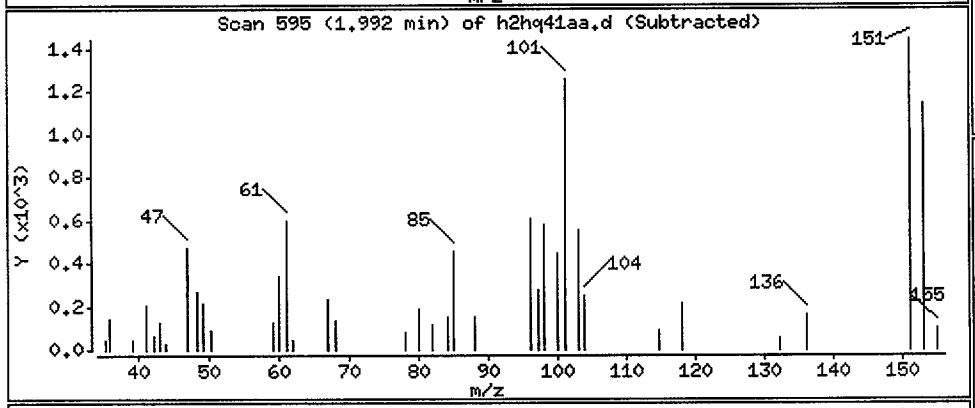
Column phase: J&W-624

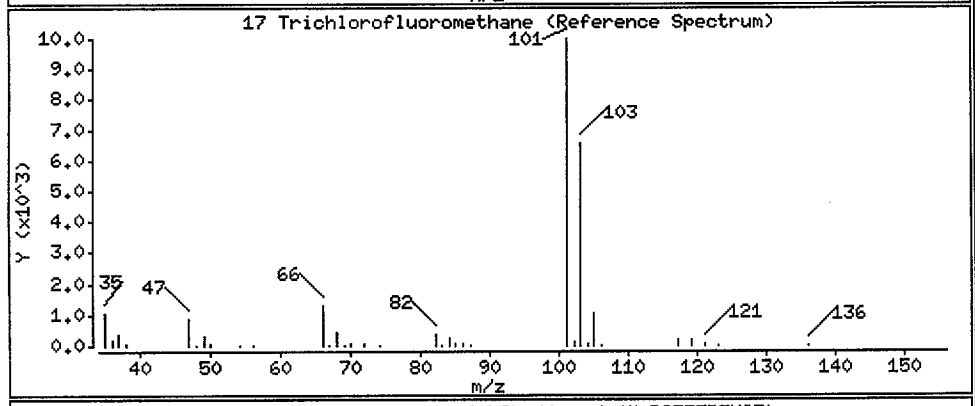
Column diameter: 0.18

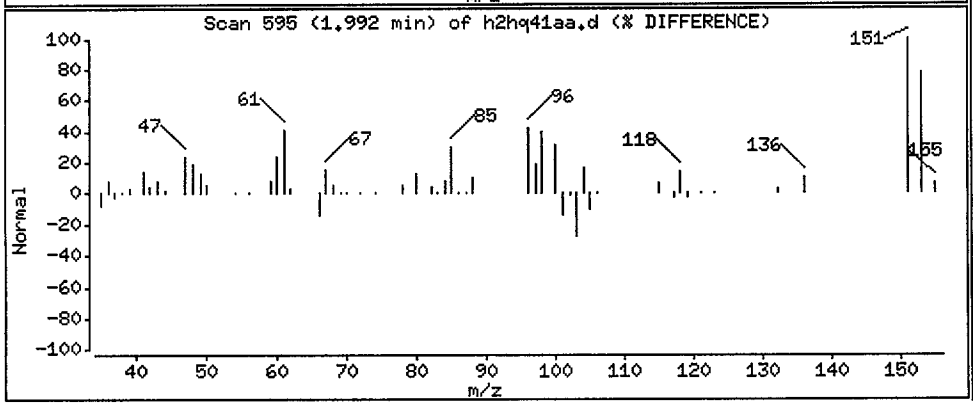
17 Trichlorofluoromethane

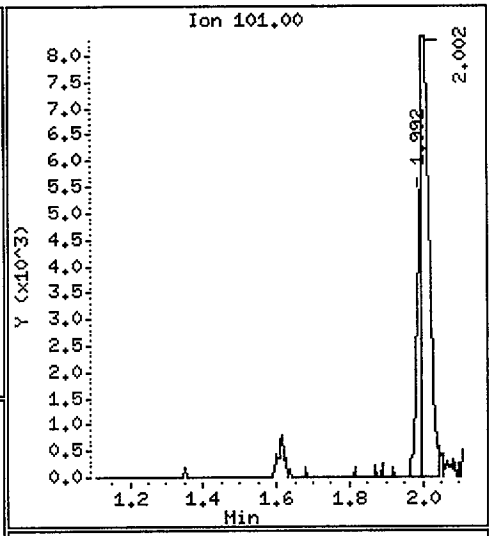
Concentration: 136.37 ug/Kg

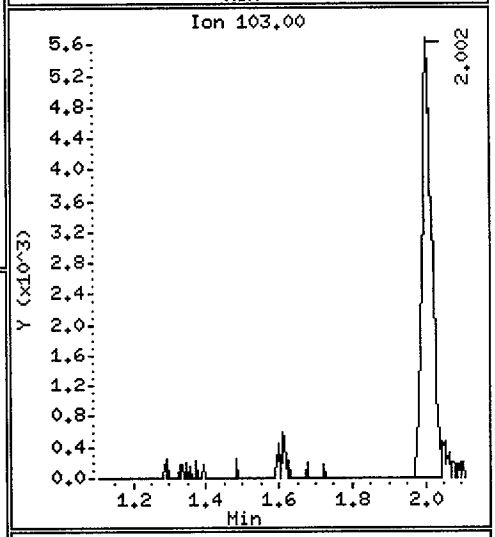


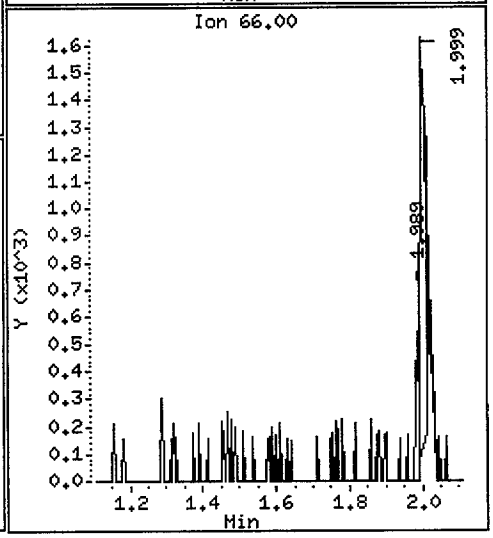












Data File: /chem/gcms/mk.i/K040406.b/h2hq41aa.d

Date : 04-APR-2006 20:24

Client ID: G-3070-R3-SPENT ACT

Instrument: mk.i

Sample Info: H2HQ41AA,5,0,,

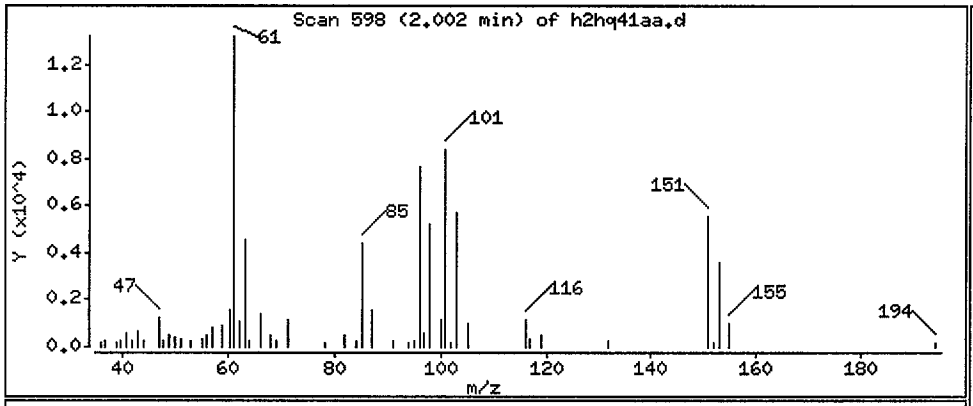
Operator: 063605

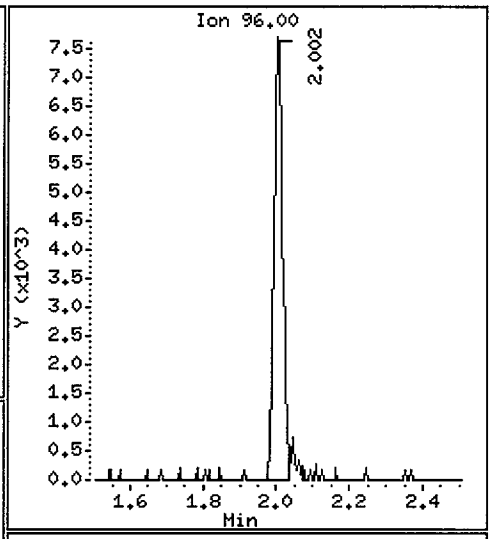
Column phase: J&W-624

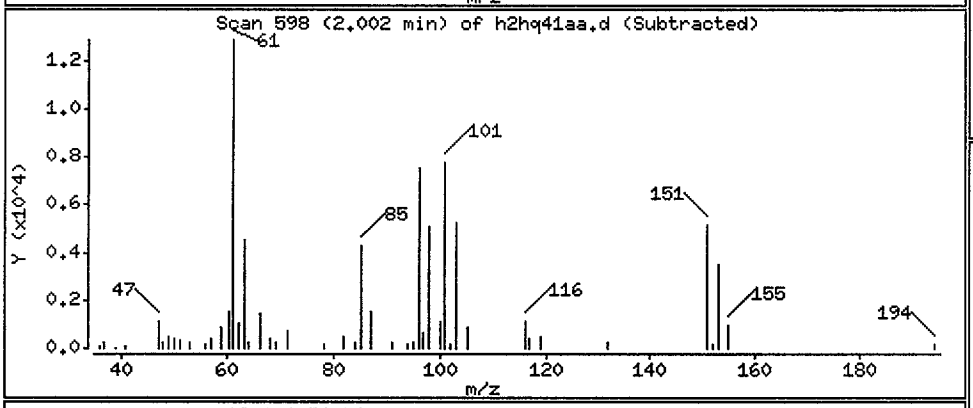
Column diameter: 0.18

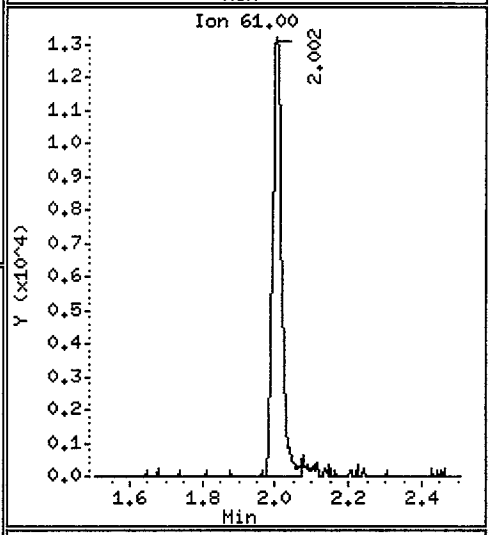
19 1,1-Dichloroethene (ccc)

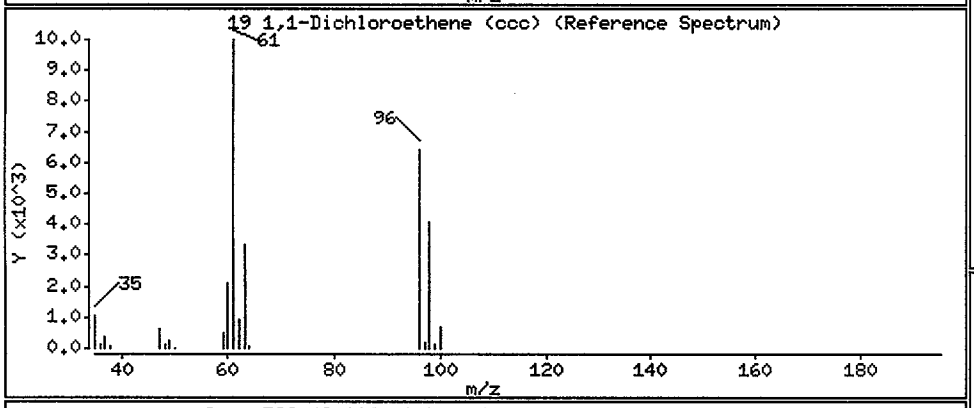
Concentration: 841.44 ug/Kg

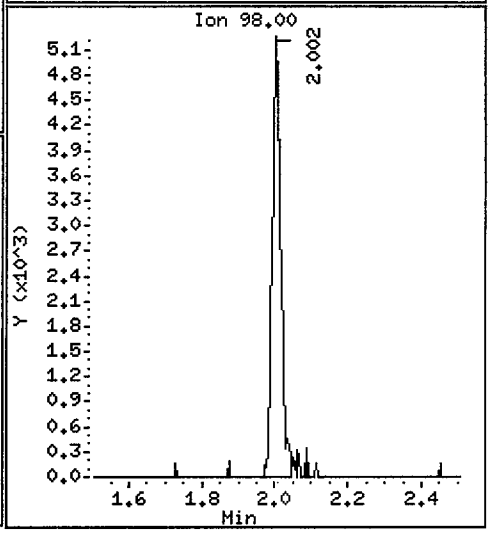


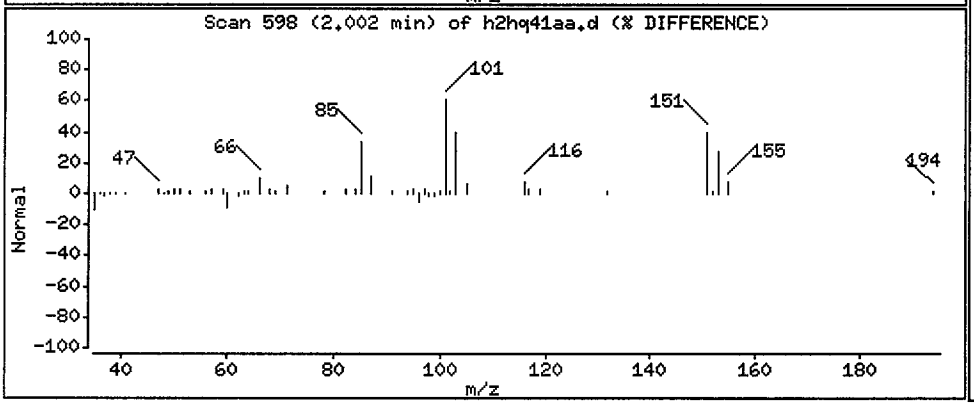












Data File: /chem/gcms/mk.i/K040406.b/h2hq41aa.d

Date : 04-APR-2006 20:24

Client ID: G-3070-R3-SPENT ACT

Instrument: mk.i

Sample Info: H2HQ41AA,5,0,,

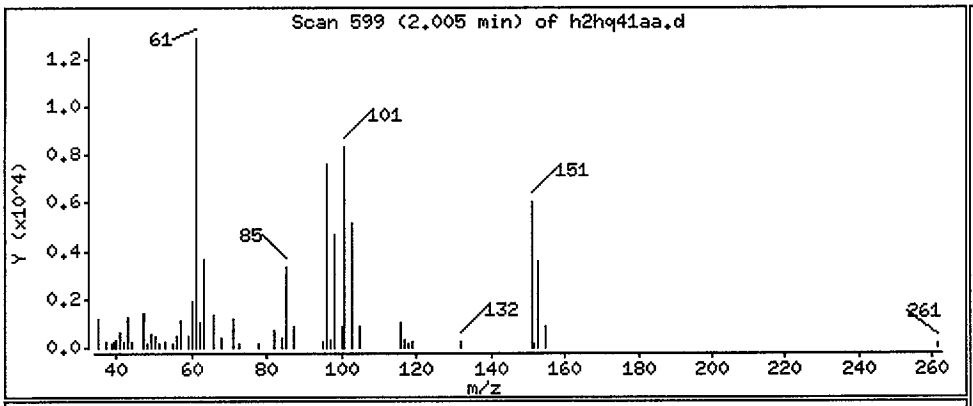
Operator: 063605

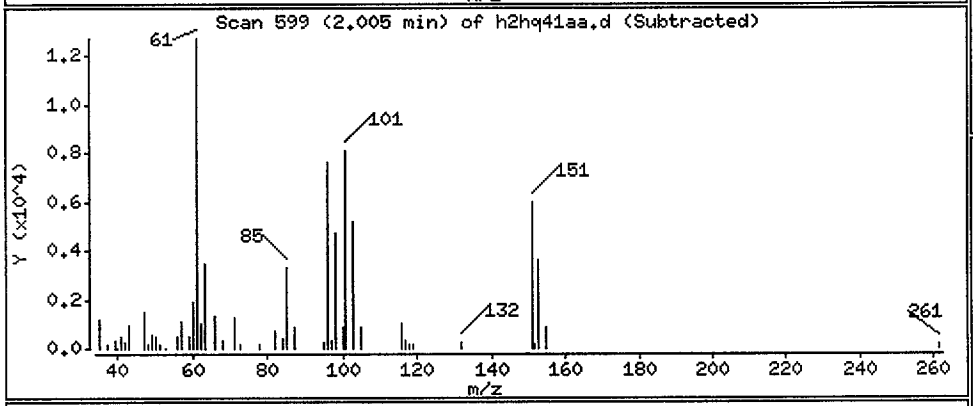
Column phase: J&W-624

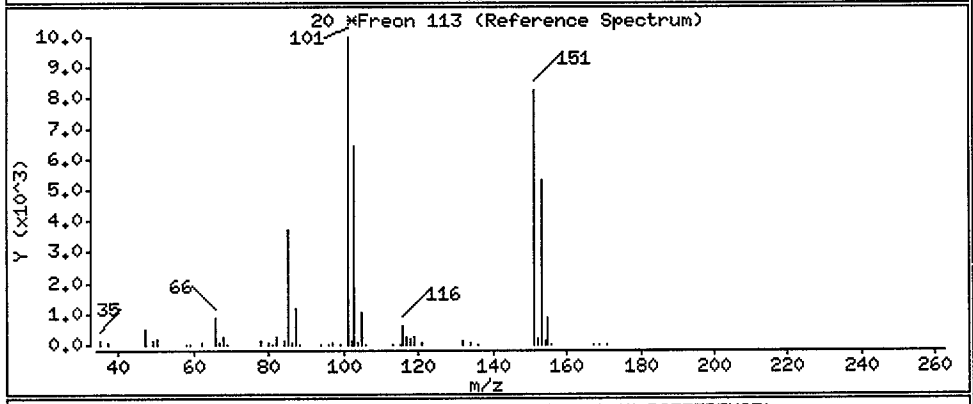
Column diameter: 0.18

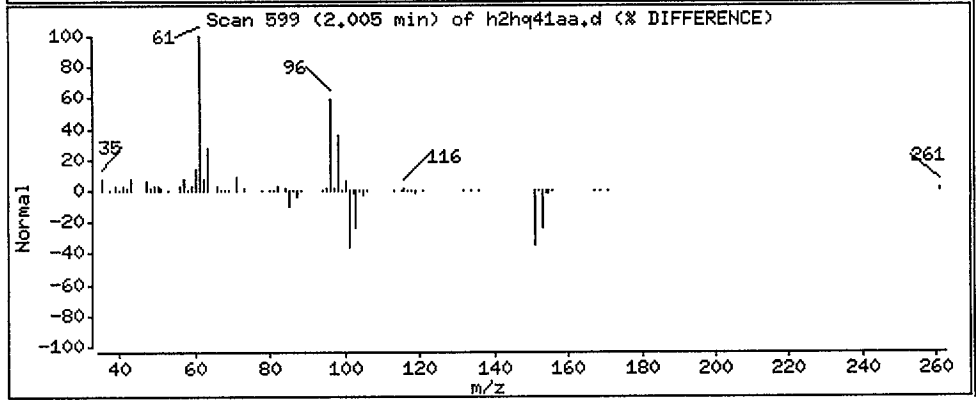
20 *Freon 113

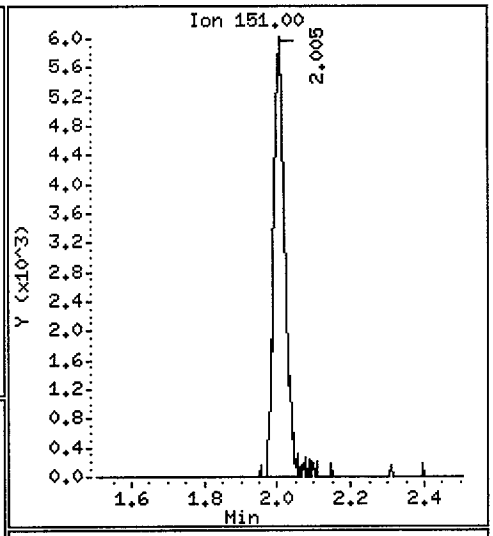
Concentration: 1075.0 ug/Kg

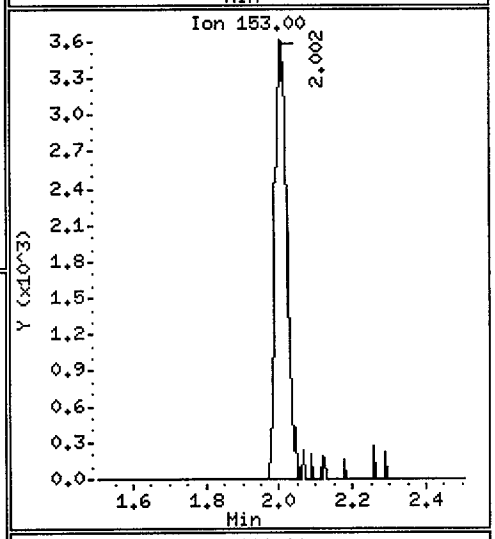


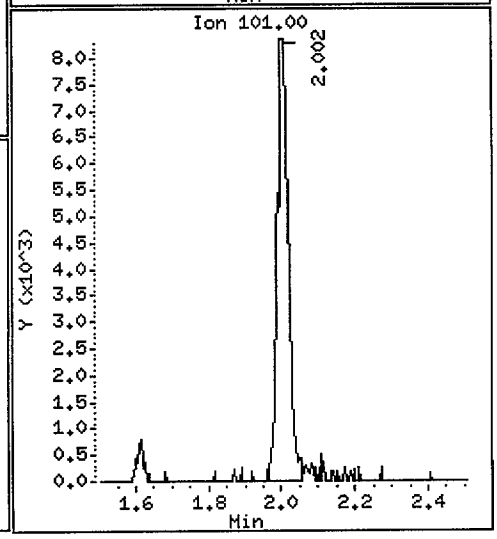












Data File: /chem/gcms/mk.i/K040406.b/h2hq41aa.d

Date : 04-APR-2006 20:24

Client ID: G-3070-R3-SPENT ACT

Instrument: mk.i

Sample Info: H2HQ41AA,5,0,,

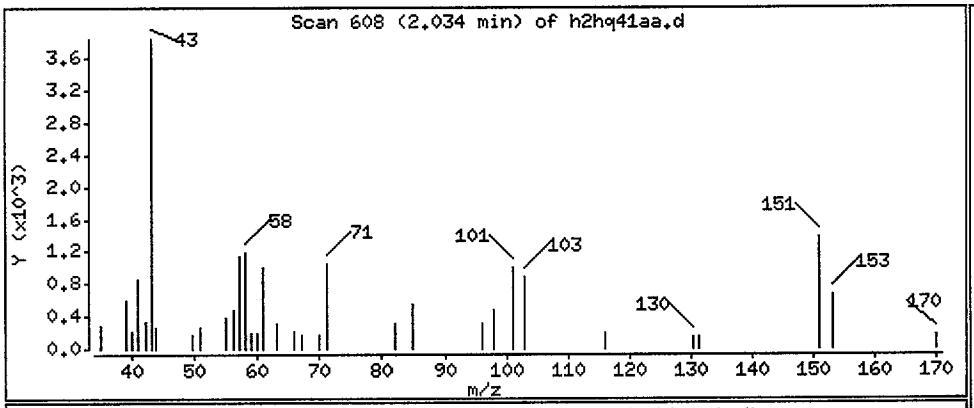
Operator: 063605

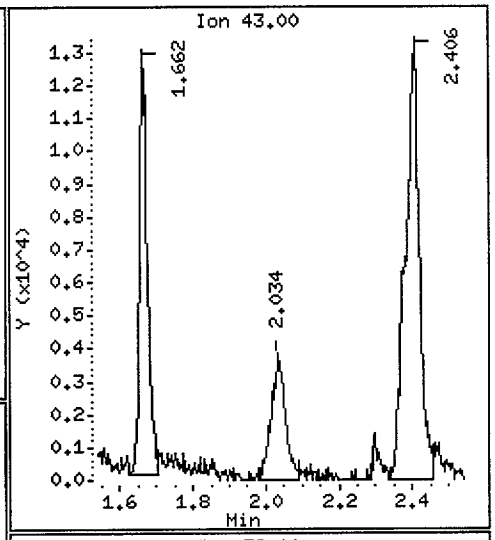
Column phase: J&W-624

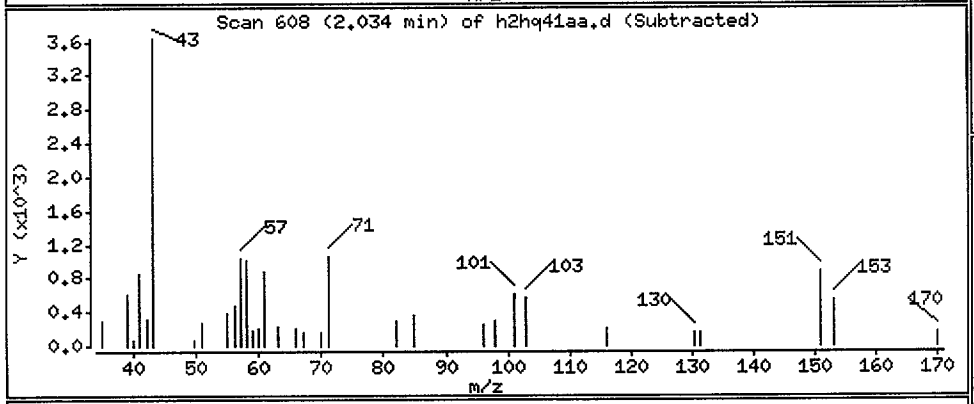
Column diameter: 0.18

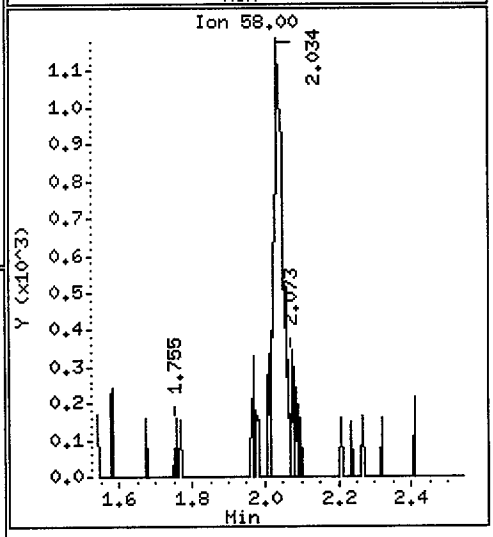
21 Acetone

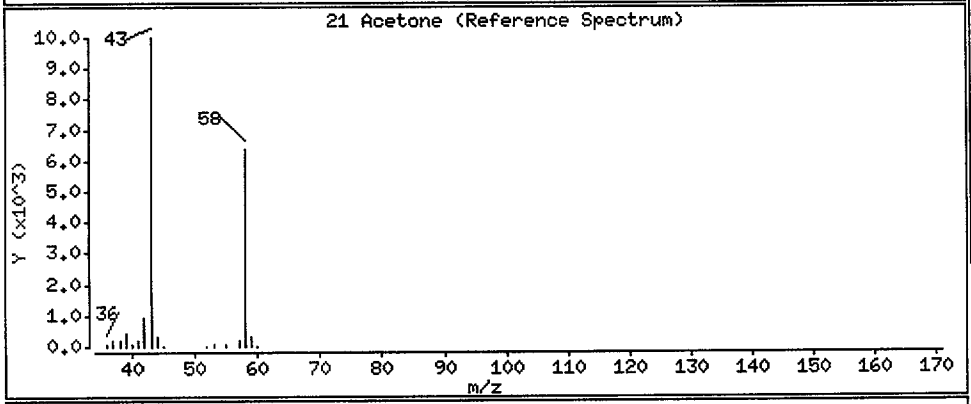
Concentration: 2402.0 ug/Kg

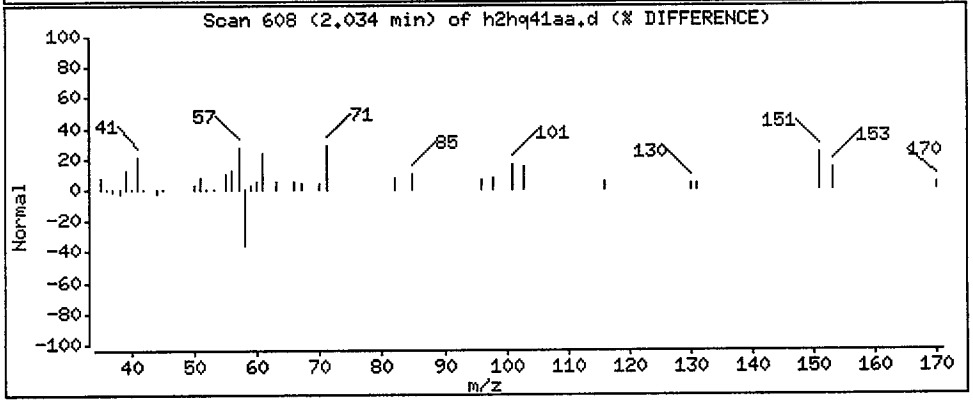












Data File: /chem/gcms/mk.i/K040406.b/h2hq41aa.d

Date : 04-APR-2006 20:24

Client ID: G-3070-R3-SPENT ACT

Instrument: mk.i

Sample Info: H2HQ41AA,5,0,,

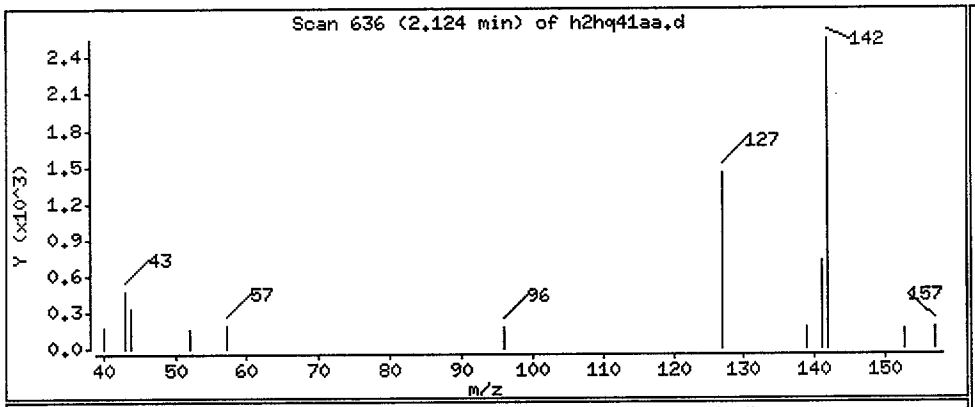
Operator: 063605

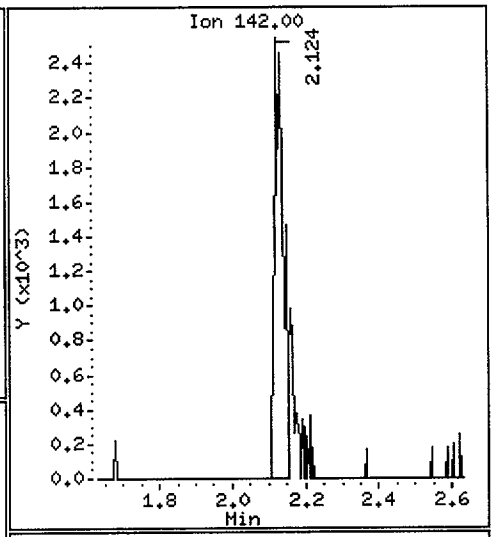
Column phase: J&W-624

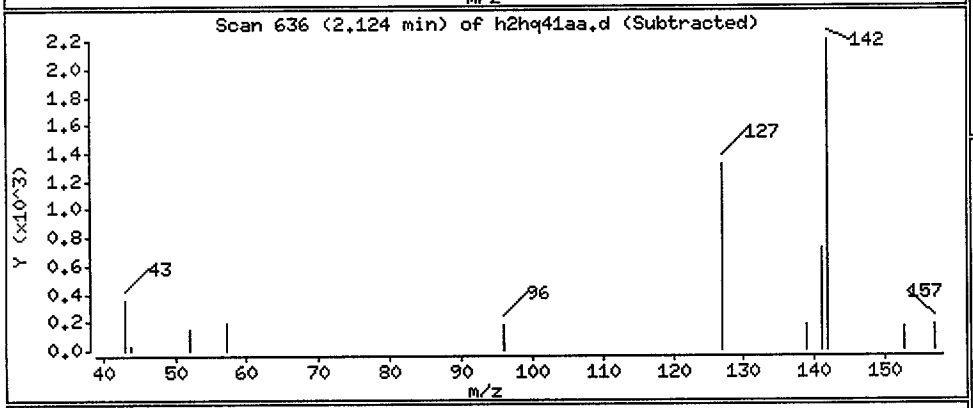
Column diameter: 0.18

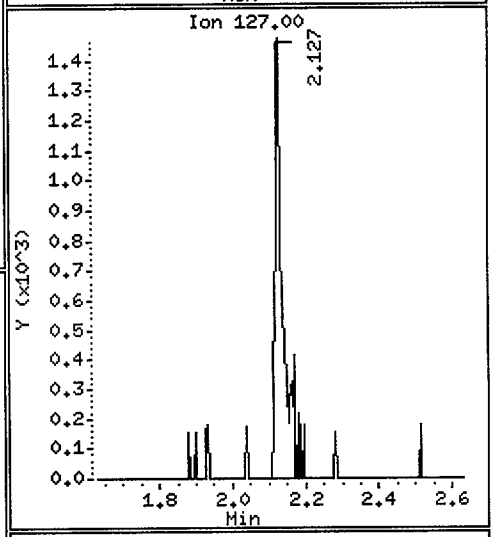
22 *Iodomethane

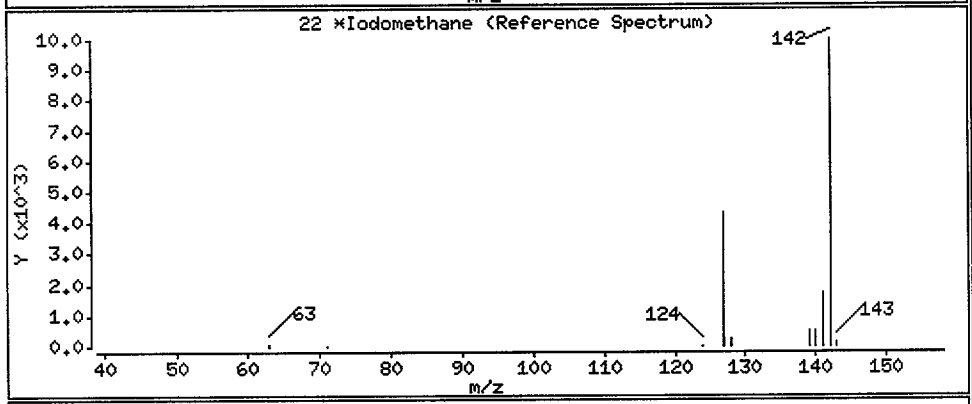
Concentration: 241.91 ug/Kg

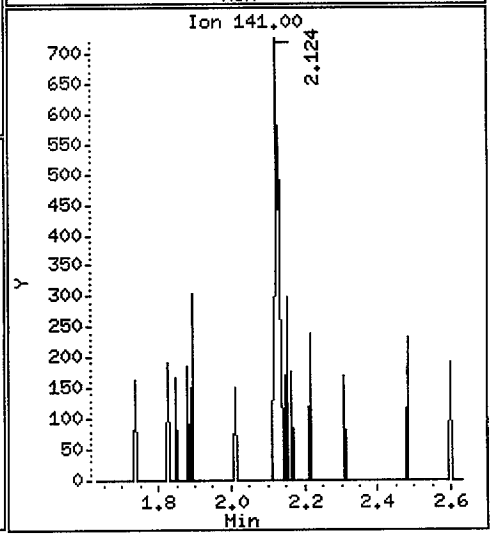


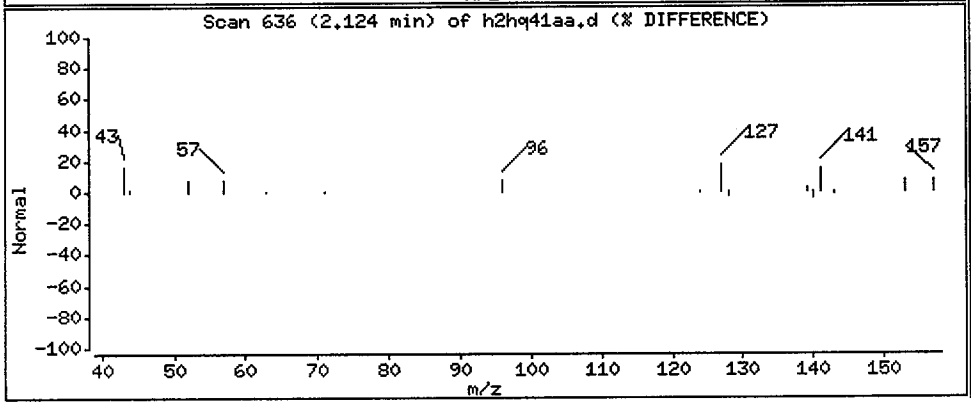












Data File: /chem/gcms/mk.i/K040406.b/h2hq41aa.d

Date : 04-APR-2006 20:24

Client ID: G-3070-R3-SPENT ACT

Instrument: mk.i

Sample Info: H2HQ41AA,5,0,,

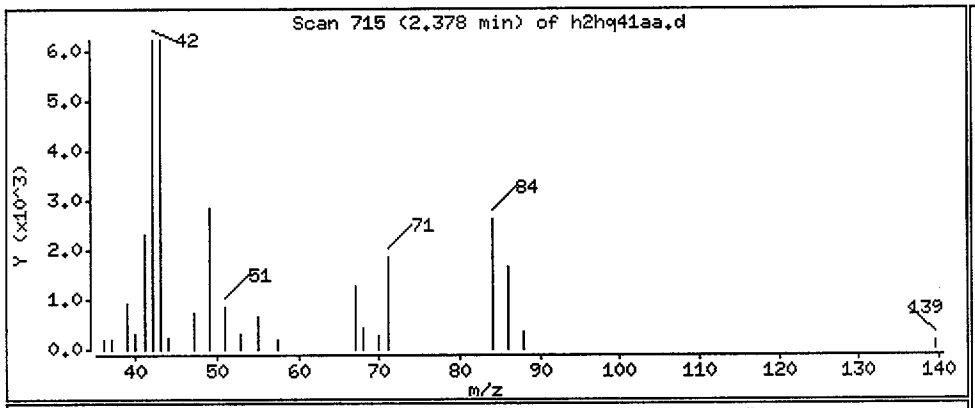
Operator: 063605

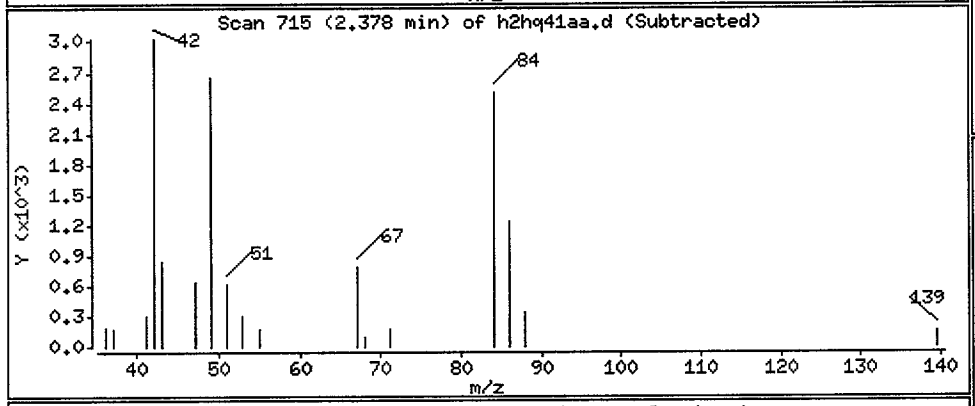
Column phase: J&W-624

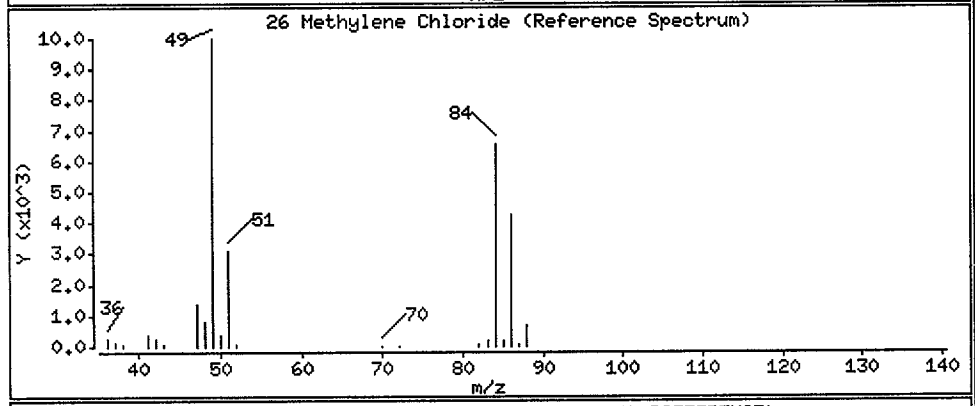
Column diameter: 0.18

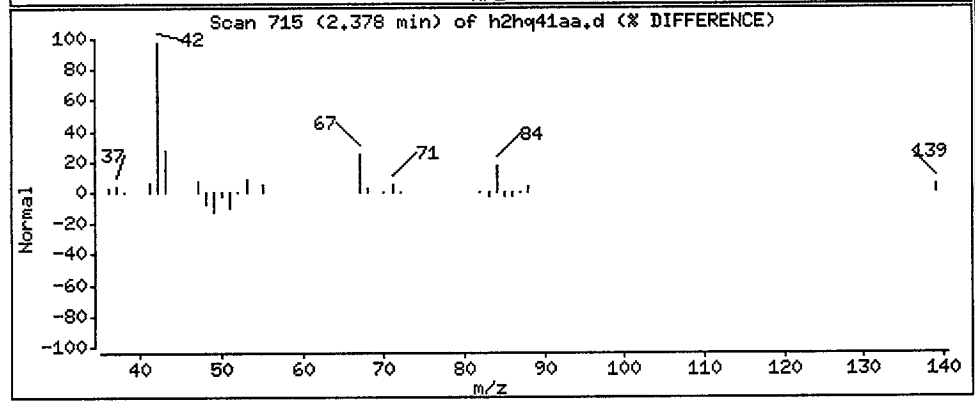
26 Methylene Chloride

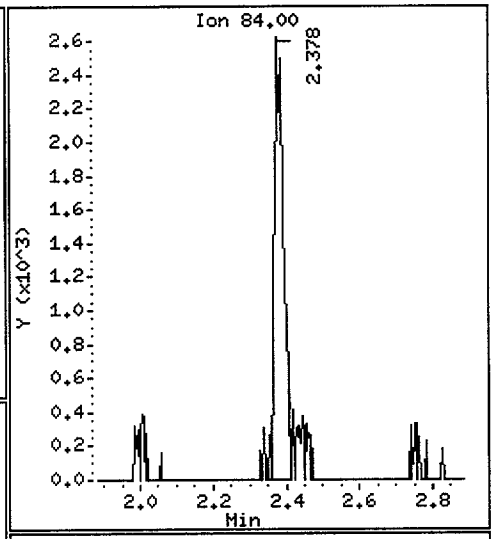
Concentration: 232.67 ug/Kg

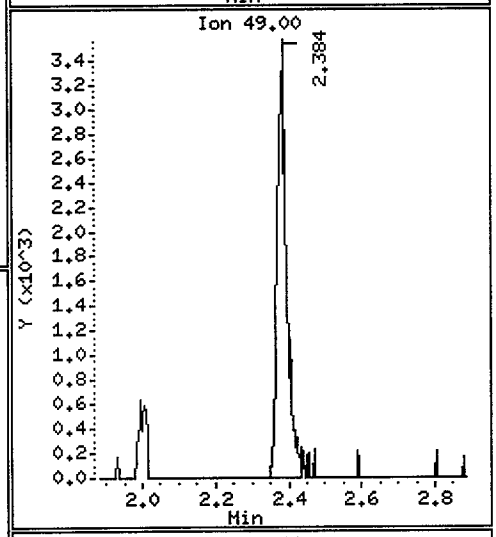


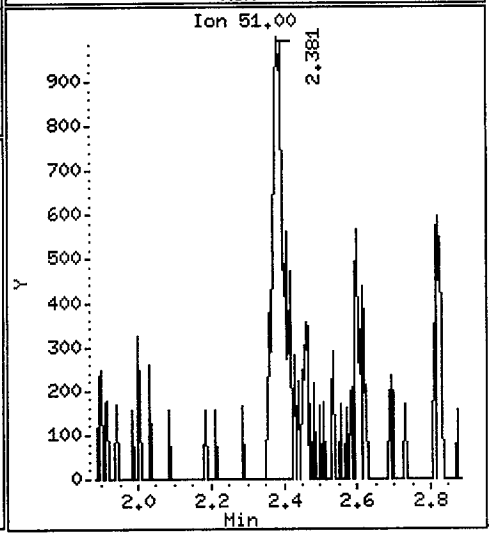












Data File: /chem/gcms/mk.i/K040406.b/h2hq41aa.d

Date : 04-APR-2006 20:24

Client ID: G-3070-R3-SPENT ACT

Instrument: mk.i

Sample Info: H2HQ41AA,5,0,,

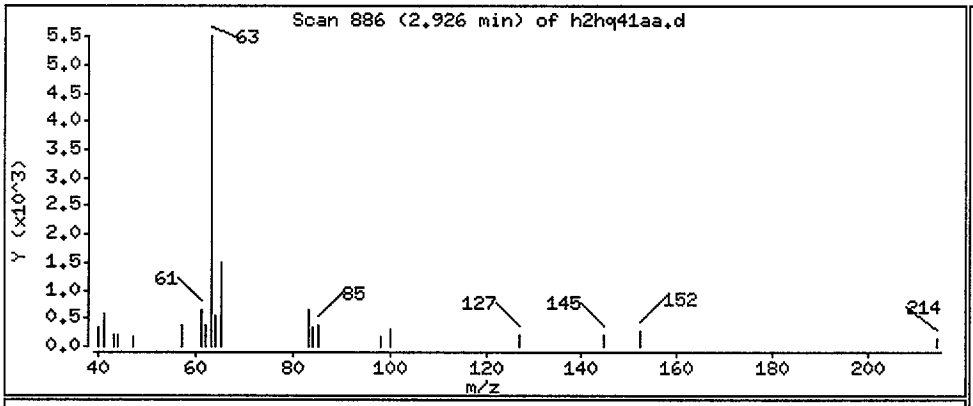
Operator: 063605

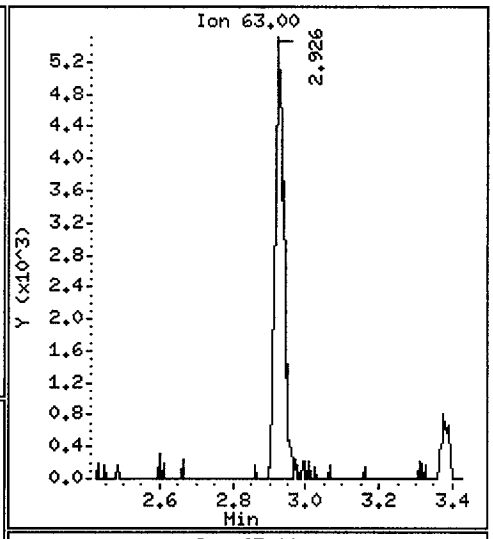
Column phase: J&W-624

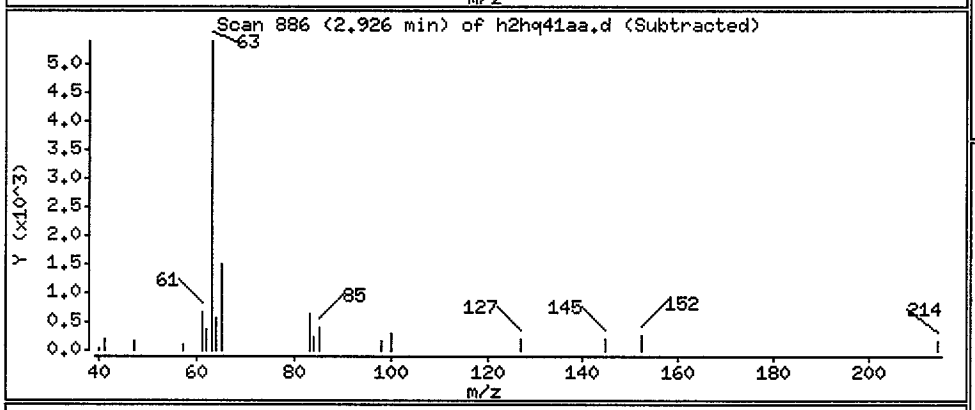
Column diameter: 0.18

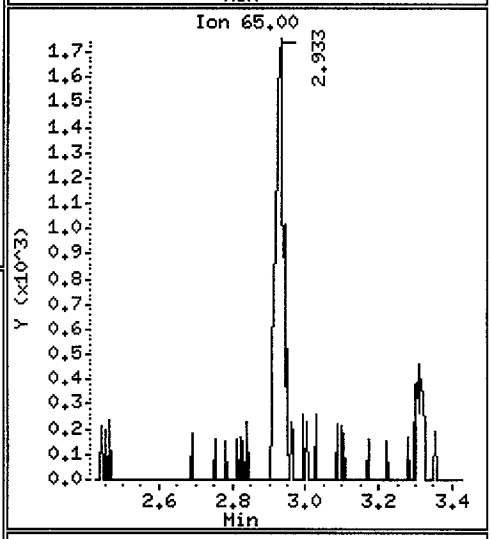
32 1,1-Dichloroethane (spcc)

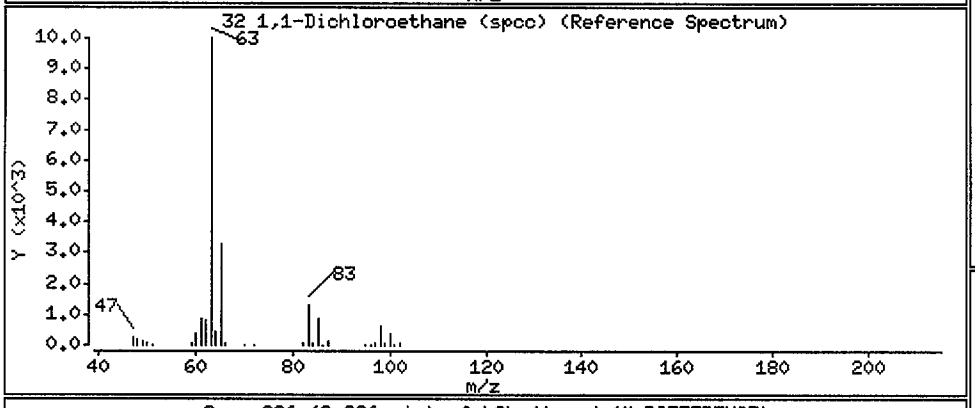
Concentration: 256.42 ug/Kg

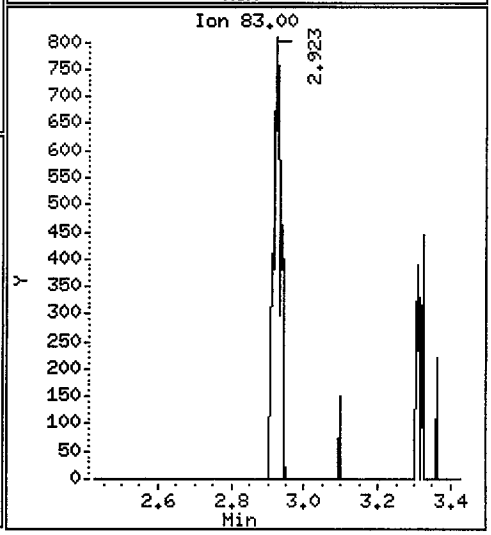


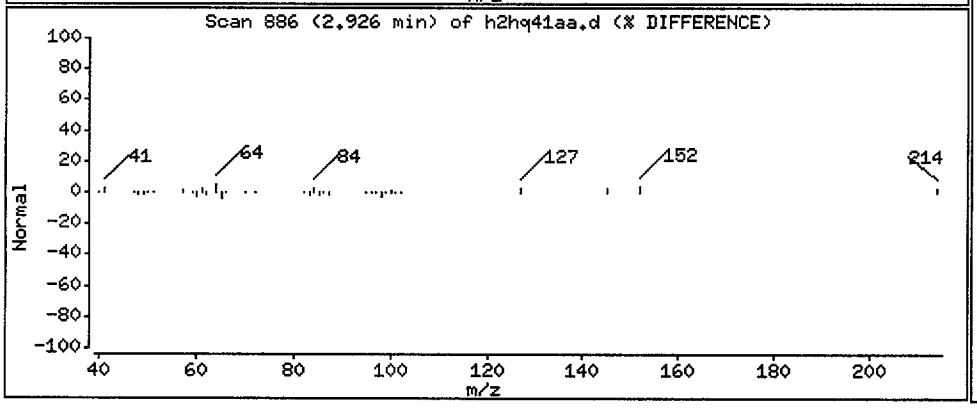












Data File: /chem/gcms/mk.i/K040406.b/h2hq41aa.d

Date : 04-APR-2006 20:24

Client ID: G-3070-R3-SPENT ACT

Instrument: mk.i

Sample Info: H2HQ41AA,5,0,,

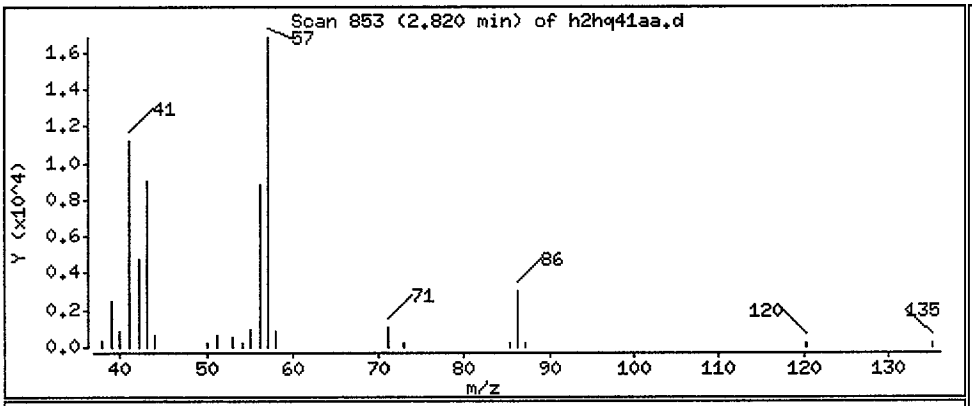
Operator: 063605

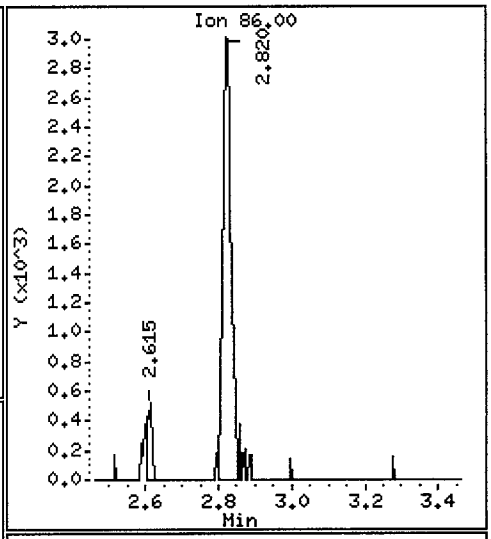
Column phase: J&W-624

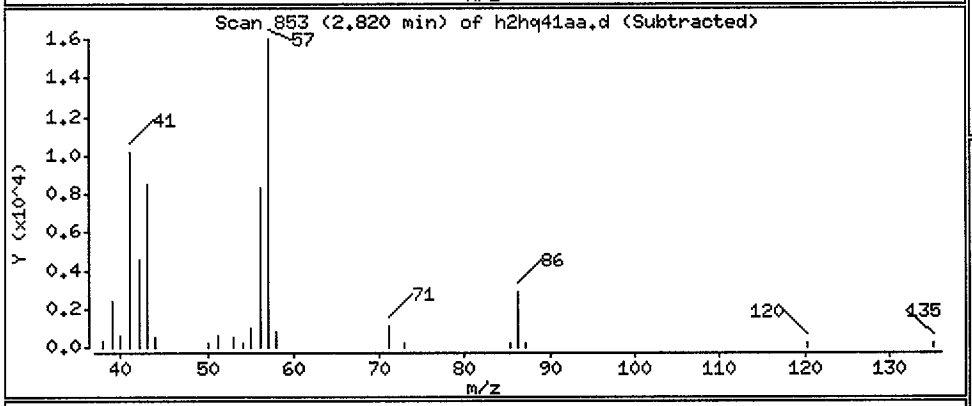
Column diameter: 0.18

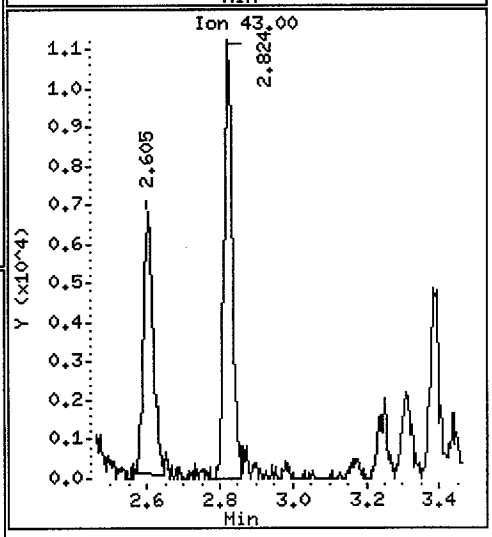
33 *Vinyl Acetate

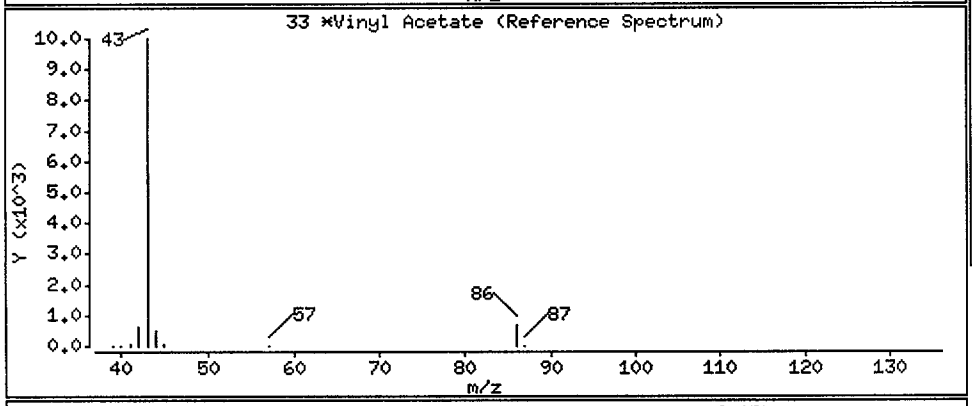
Concentration: 1505.9 ug/Kg

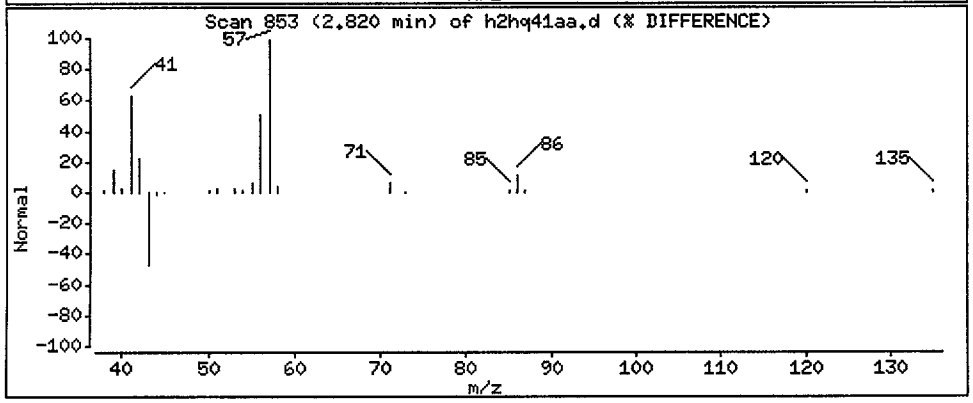












Data File: /chem/gcms/mk.i/K040406.b/h2hq41aa.d

Date : 04-APR-2006 20:24

Client ID: G-3070-R3-SPENT ACT

Instrument: mk.i

Sample Info: H2HQ41AA,5,0,,

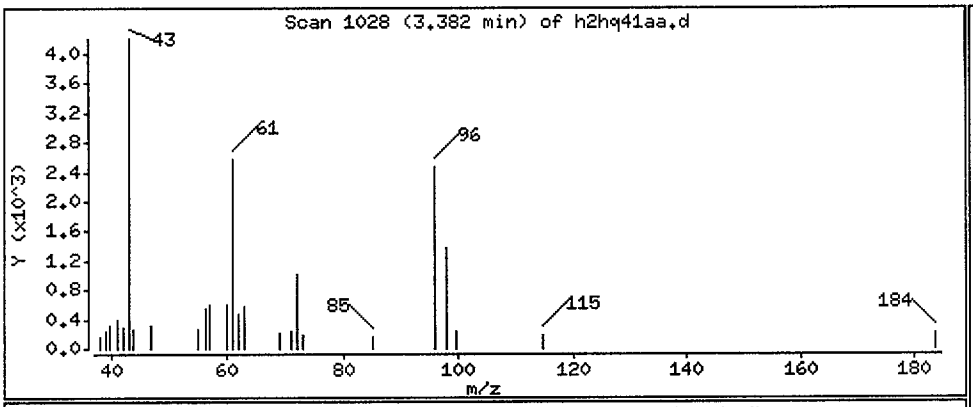
Operator: 063605

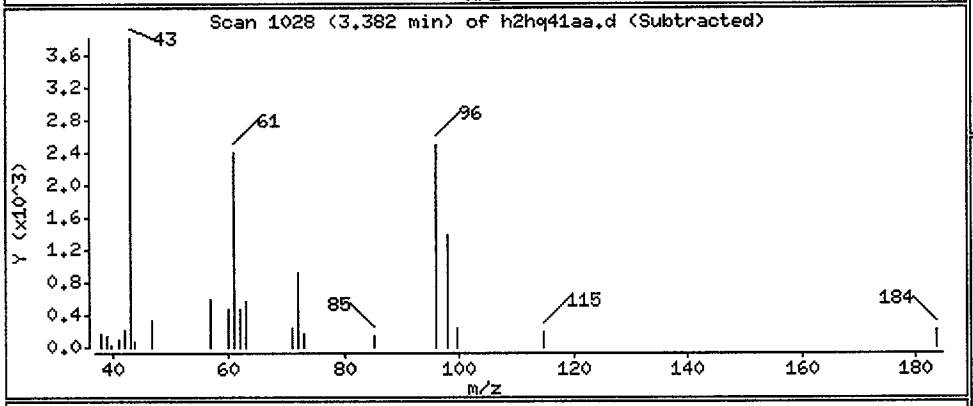
Column phase: J&W-624

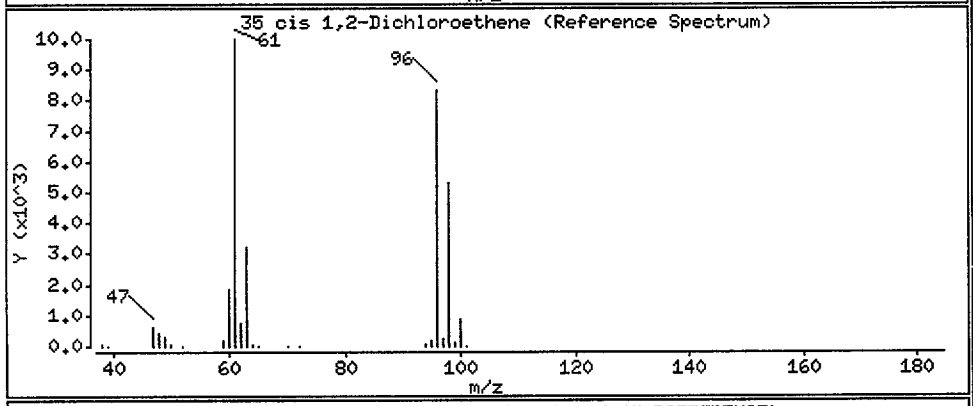
Column diameter: 0.18

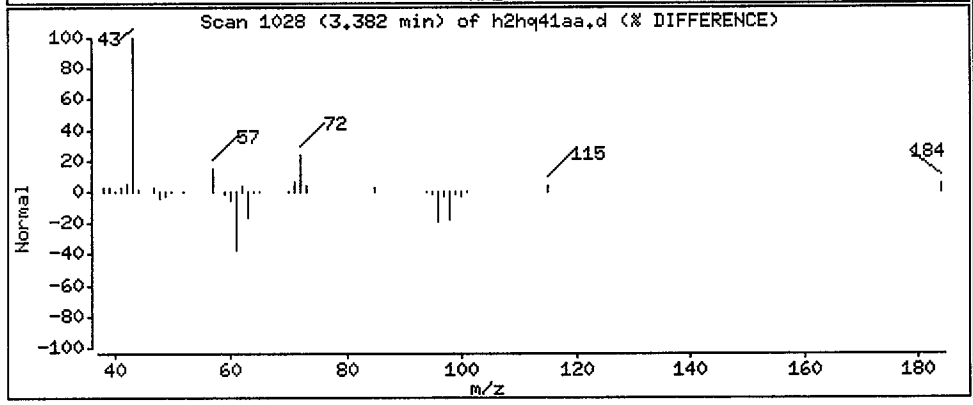
35 cis 1,2-Dichloroethene

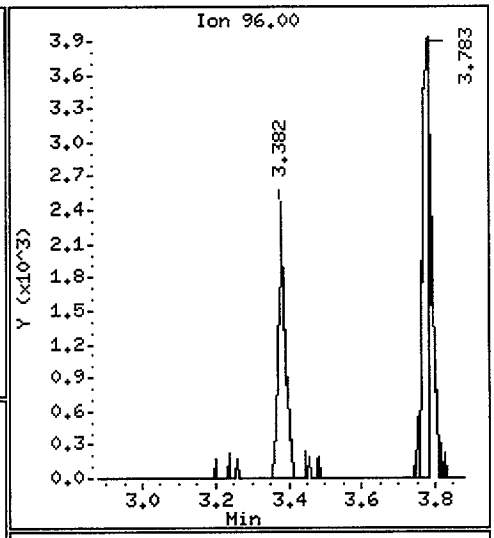
Concentration: 151.48 ug/Kg

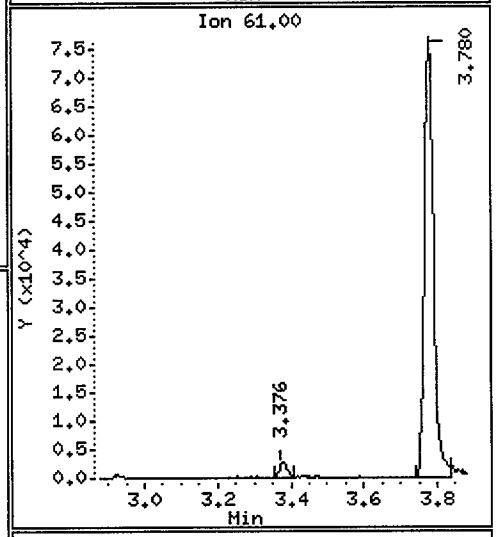


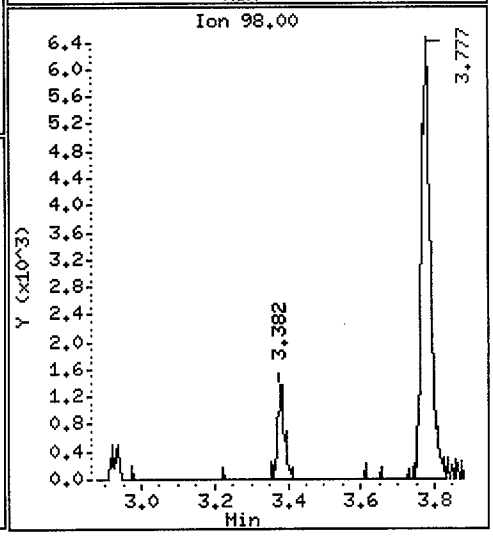












Data File: /chem/gcms/mk.i/K040406.b/h2hq41aa.d

Date : 04-APR-2006 20:24

Client ID: G-3070-R3-SPENT ACT

Instrument: mk.i

Sample Info: H2HQ41AA,5,0,,

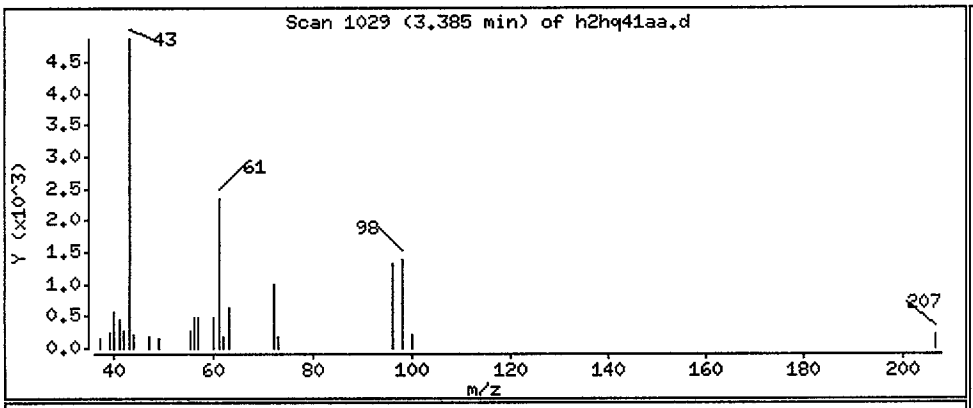
Operator: 063605

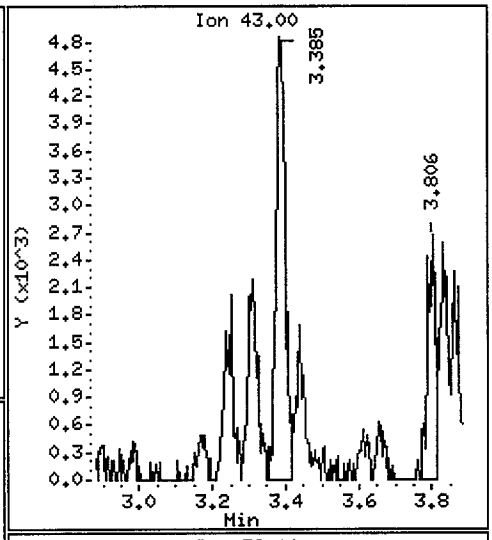
Column phase: J&W-624

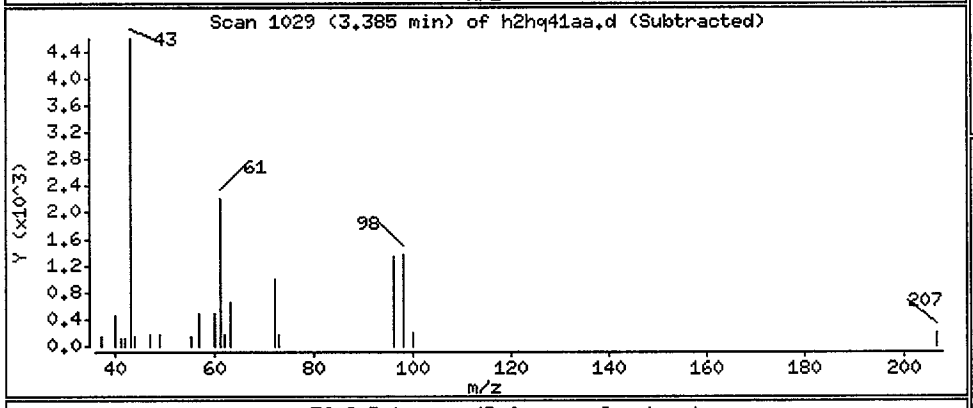
Column diameter: 0.18

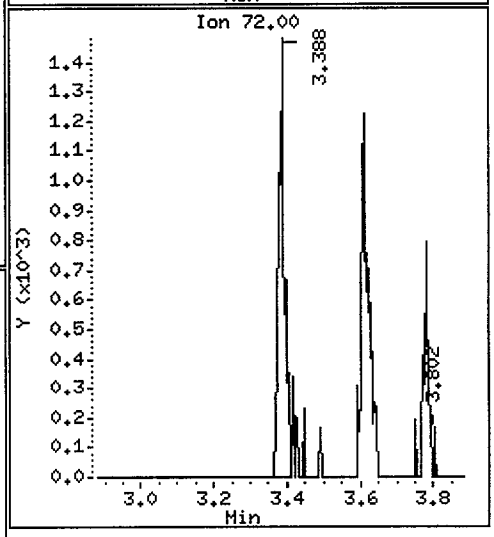
36 2-Butanone

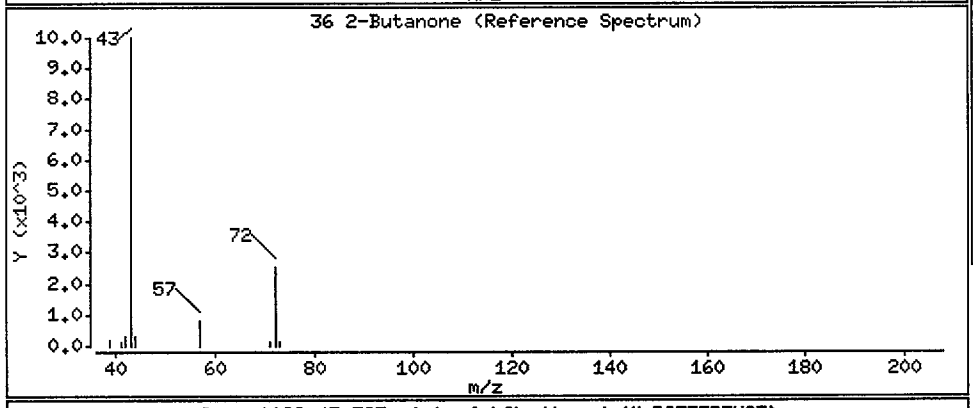
Concentration: 1229.4 ug/Kg

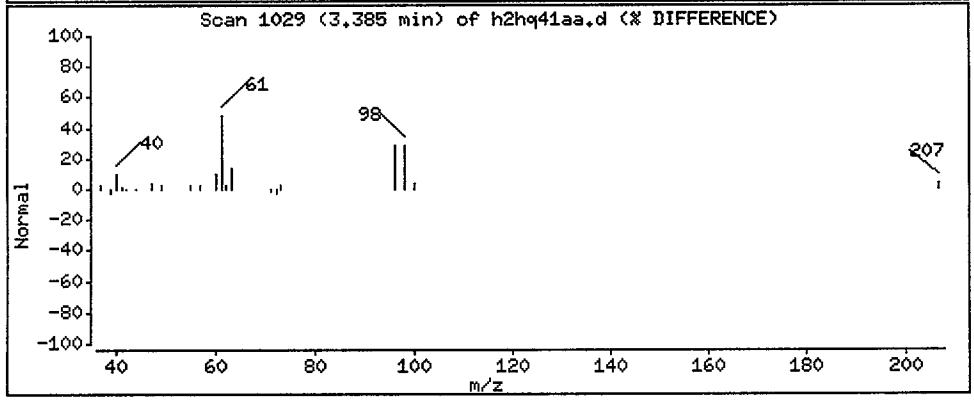












Data File: /chem/gcms/mk.i/K040406.b/h2hq41aa.d

Date : 04-APR-2006 20:24

Client ID: G-3070-R3-SPENT ACT

Instrument: mk.i

Sample Info: H2HQ41AA,5,0,,

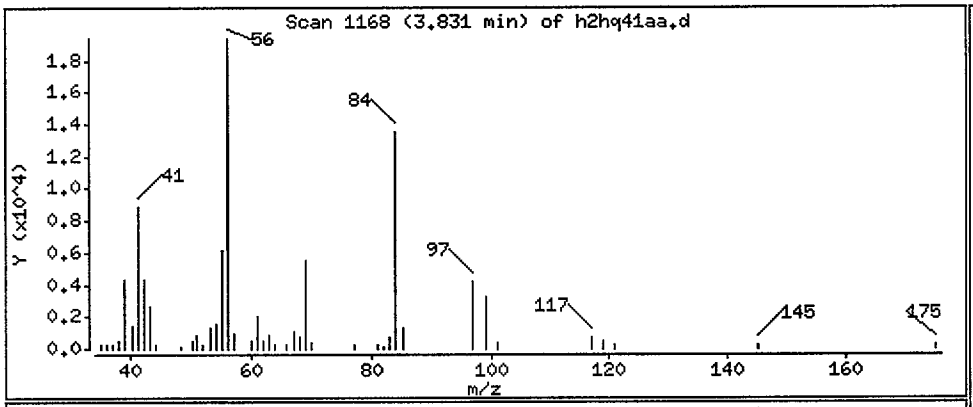
Operator: 063605

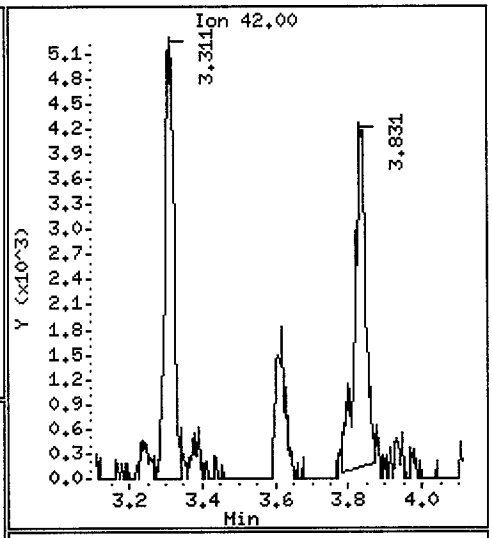
Column phase: J&W-624

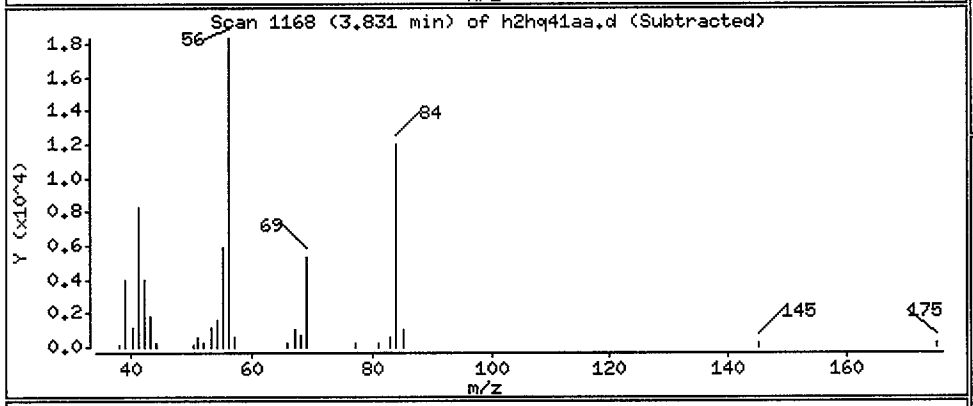
Column diameter: 0.18

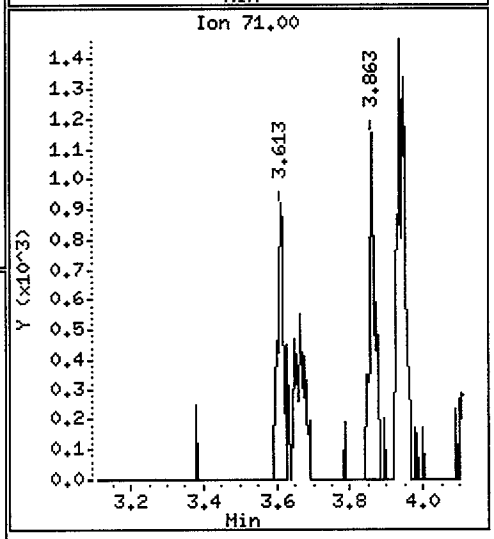
39 *THF

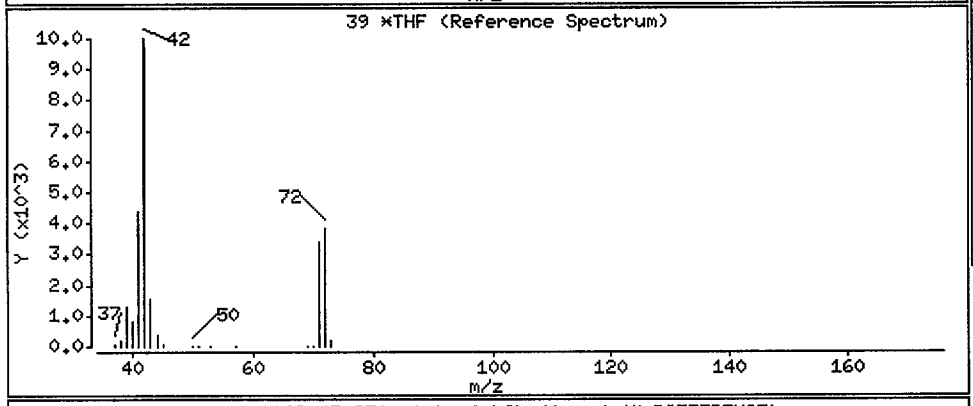
Concentration: 1871.6 ug/Kg

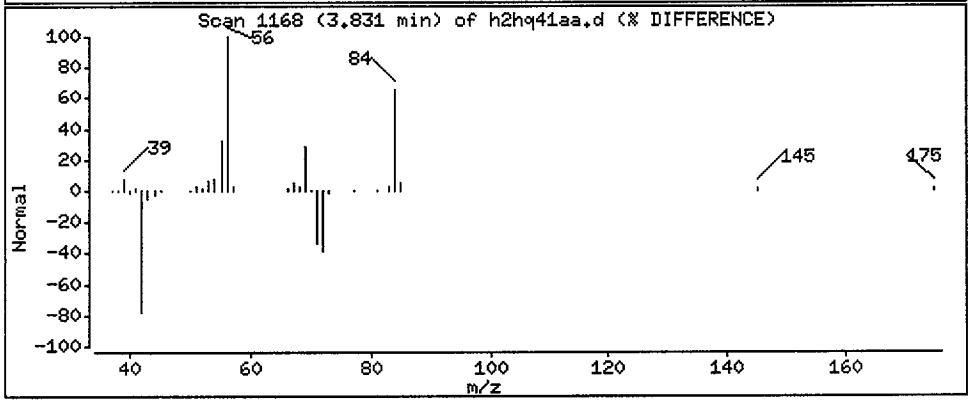












Data File: /chem/gcms/mk.i/K040406.b/h2hq41aa.d

Date : 04-APR-2006 20:24

Client ID: G-3070-R3-SPENT ACT

Instrument: mk.i

Sample Info: H2HQ41AA,5,0,,

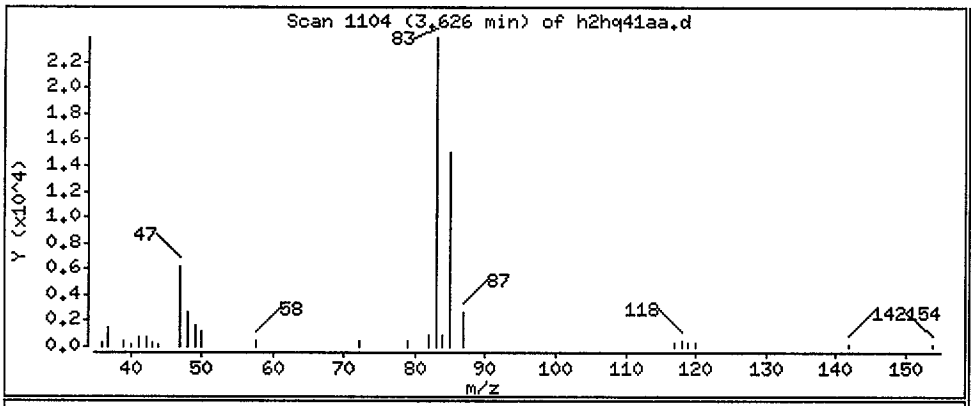
Operator: 063605

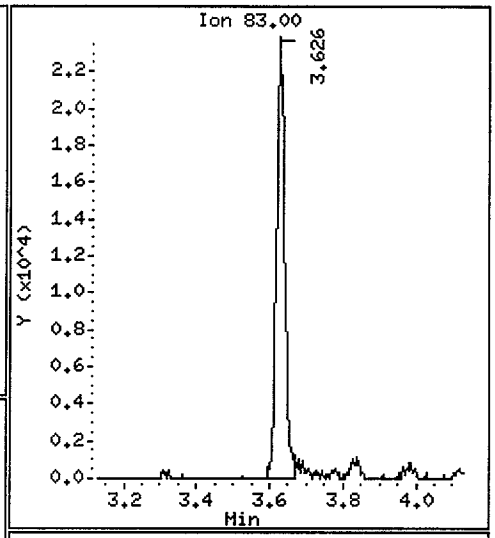
Column phase: J&W-624

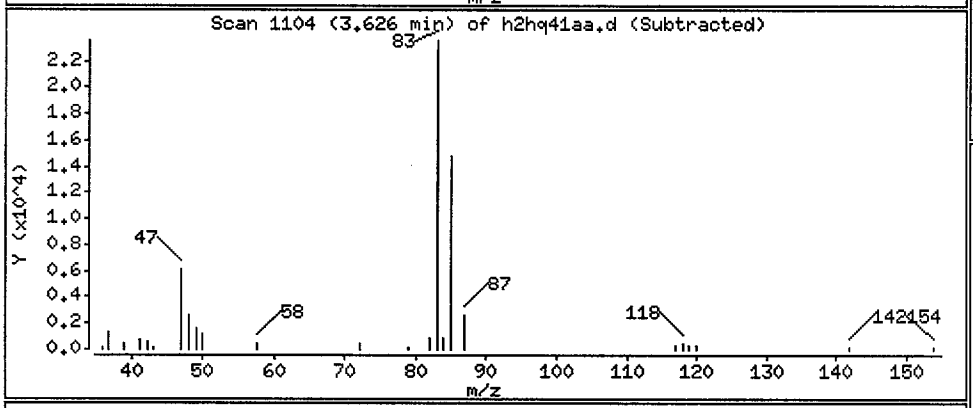
Column diameter: 0.18

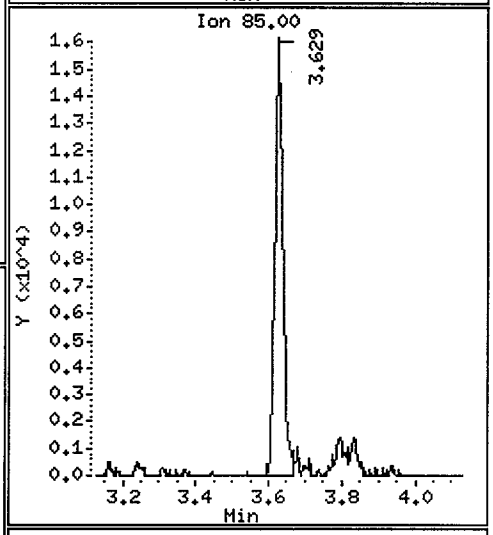
40 Chloroform (ccc)

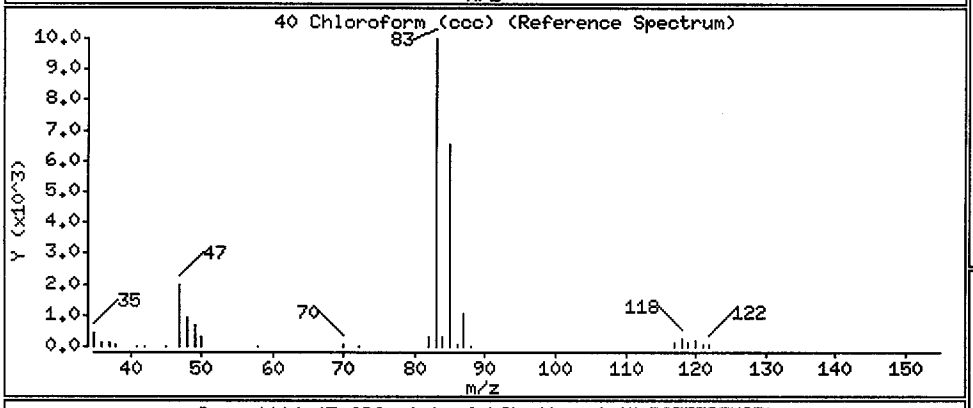
Concentration: 1127.3 ug/Kg

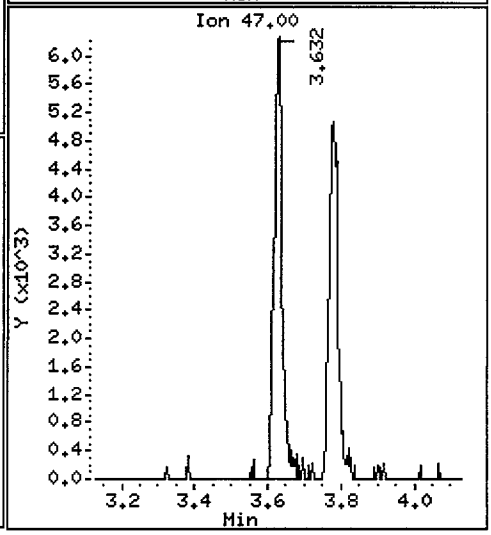


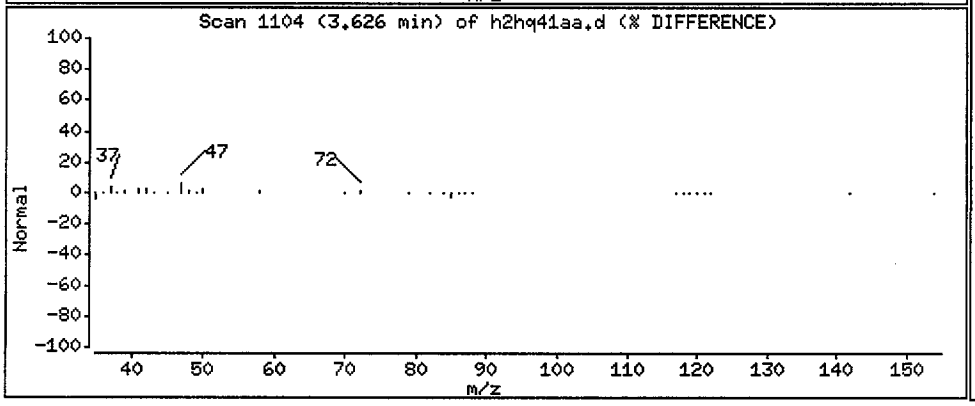












Data File: /chem/gcms/mk.i/K040406.b/h2hq41aa.d

Date : 04-APR-2006 20:24

Client ID: G-3070-R3-SPENT ACT

Instrument: mk.i

Sample Info: H2HQ41AA,5,0,,

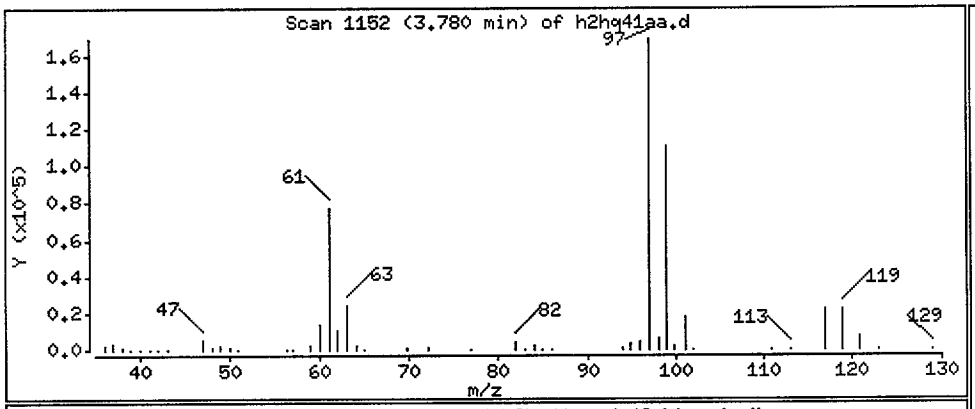
Operator: 063605

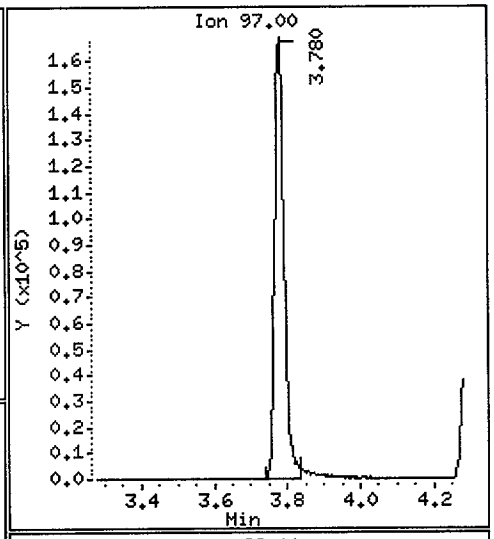
Column phase: J&W-624

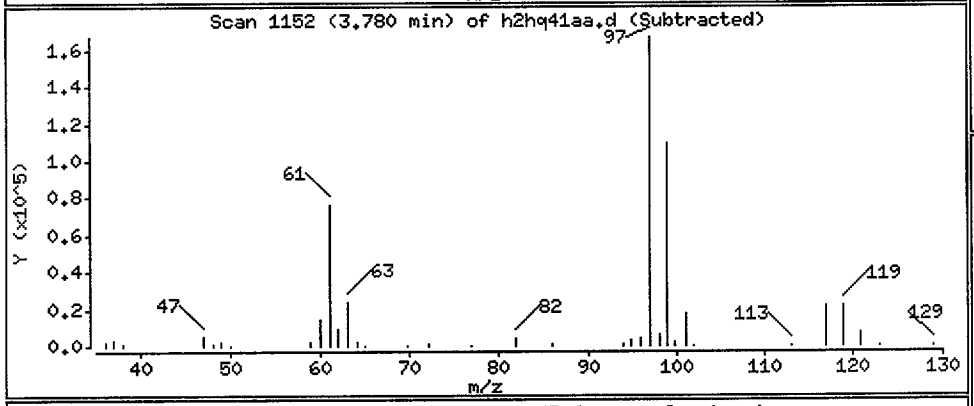
Column diameter: 0.18

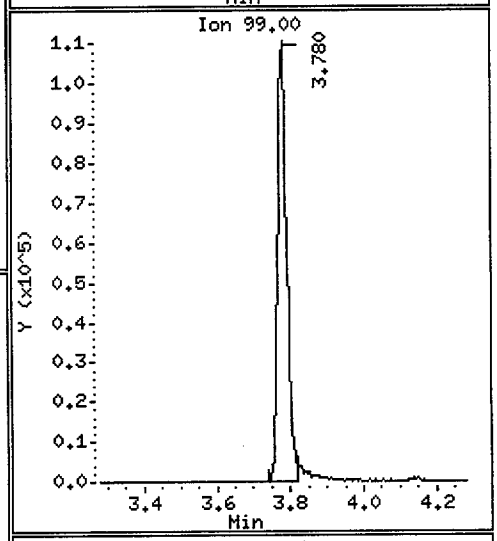
41 1,1,1-Trichloroethane

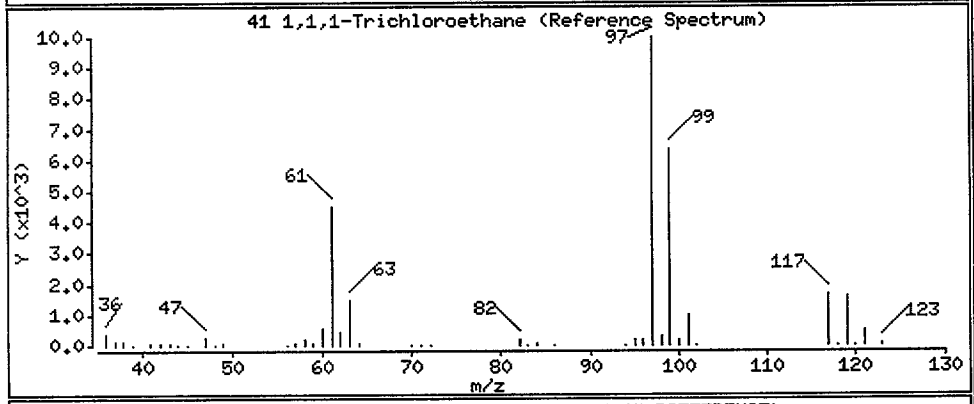
Concentration: 10793 ug/Kg

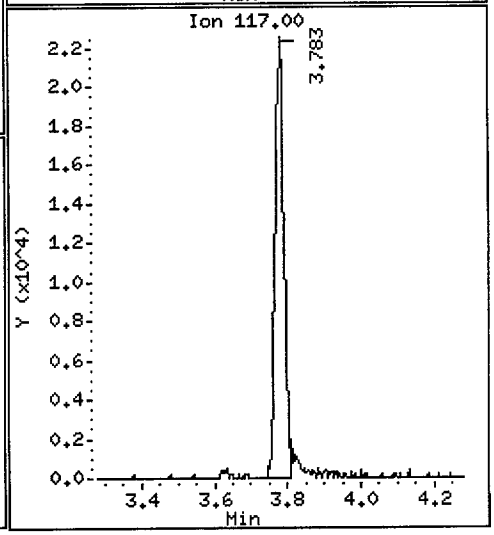


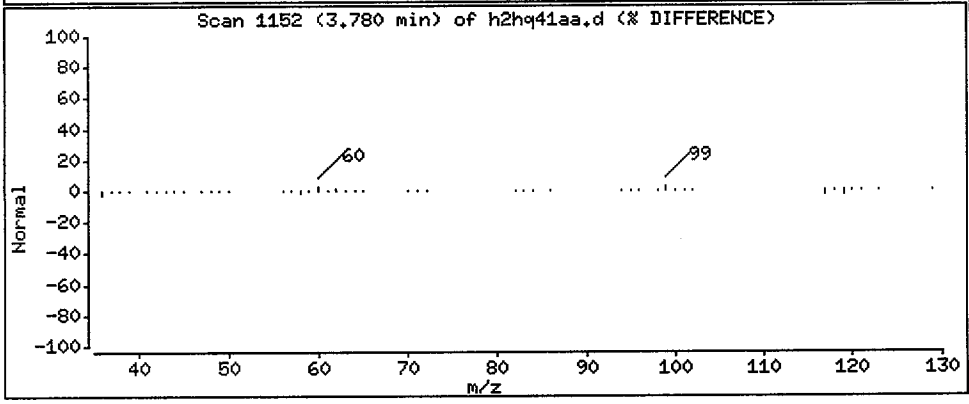












Data File: /chem/gcms/mk.i/K040406.b/h2hq41aa.d

Date : 04-APR-2006 20:24

Client ID: G-3070-R3-SPENT ACT

Instrument: mk.i

Sample Info: H2HQ41AA,5,0,,

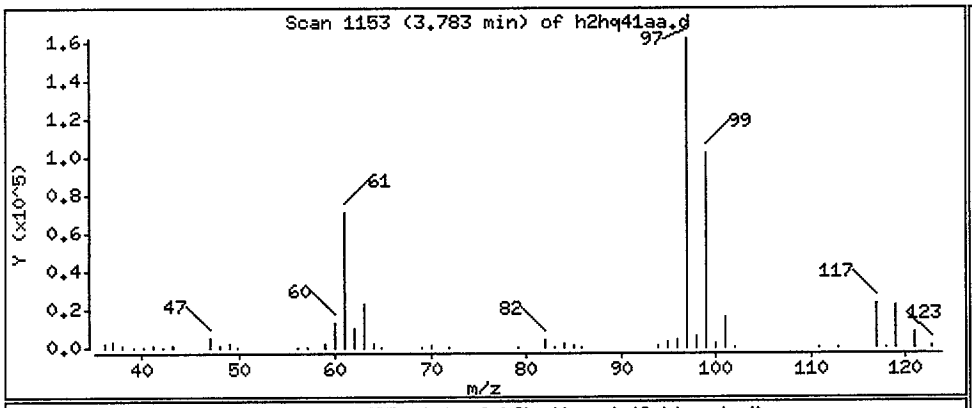
Operator: 063605

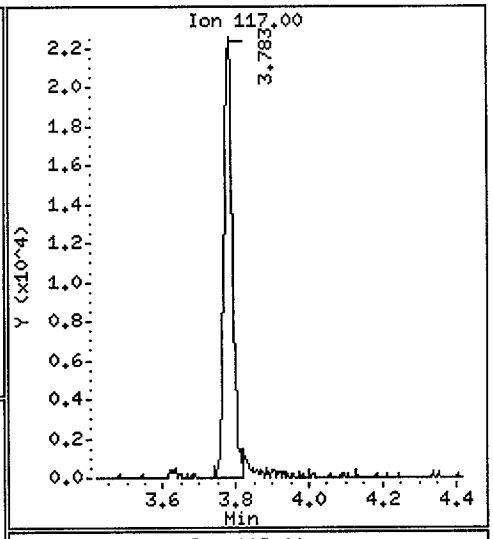
Column phase: J&W-624

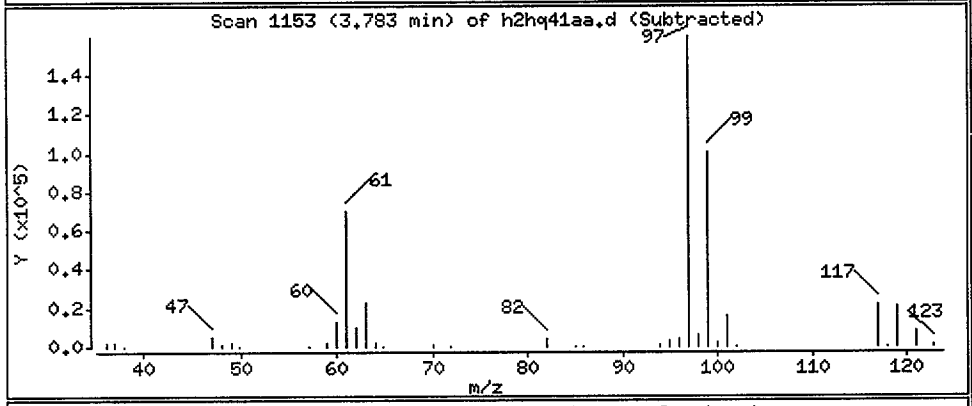
Column diameter: 0.18

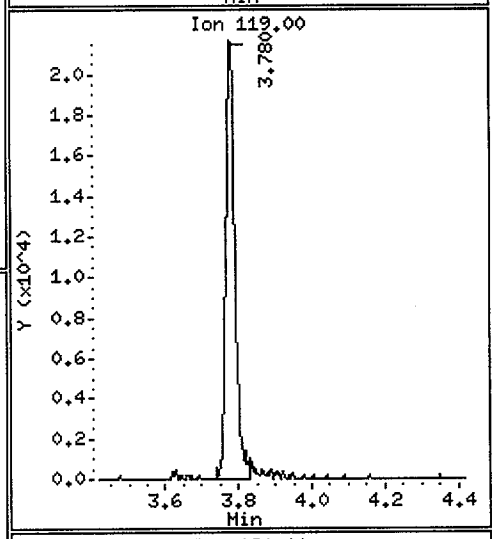
42 Carbon Tetrachloride

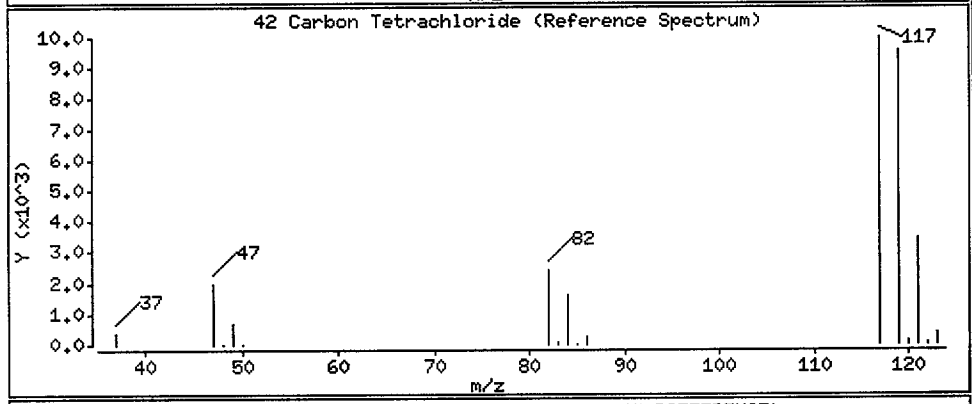
Concentration: 1724.9 ug/Kg

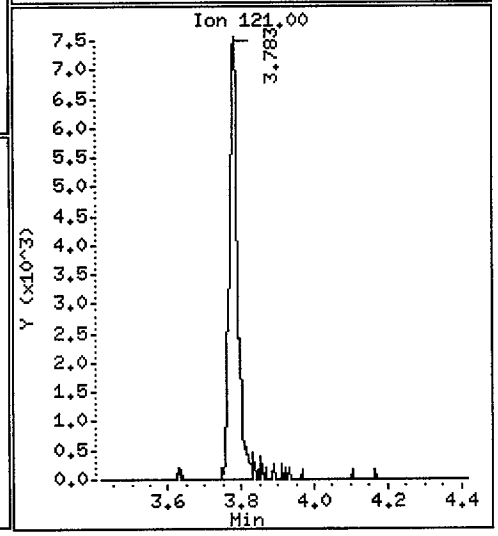


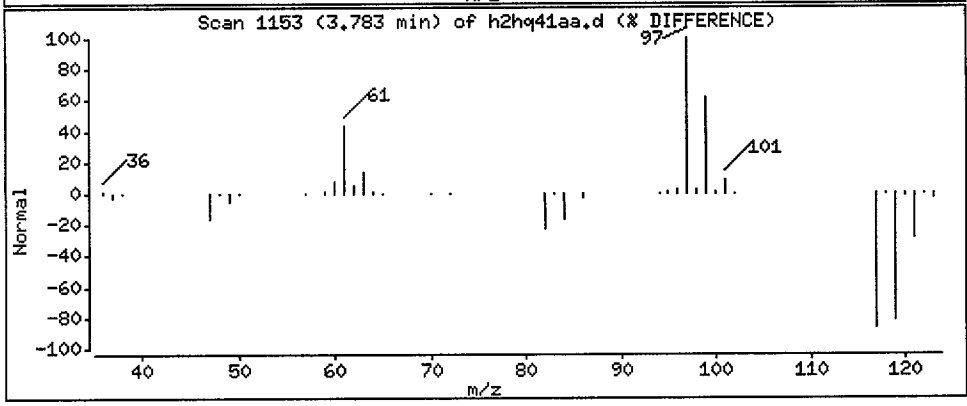












Data File: /chem/gcms/mk.i/K040406.b/h2hq41aa.d

Date : 04-APR-2006 20:24

Client ID: G-3070-R3-SPENT ACT

Instrument: mk.i

Sample Info: H2HQ41AA,5,0,,

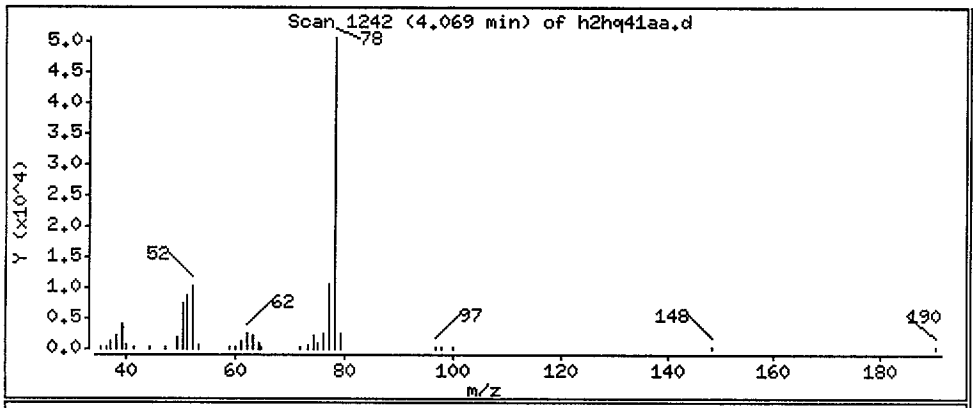
Operator: 063605

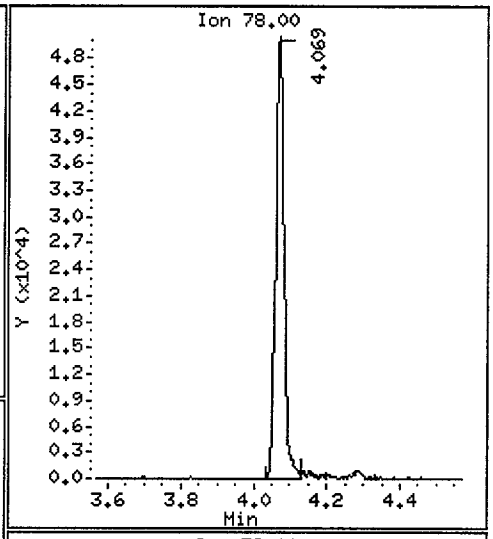
Column phase: J&W-624

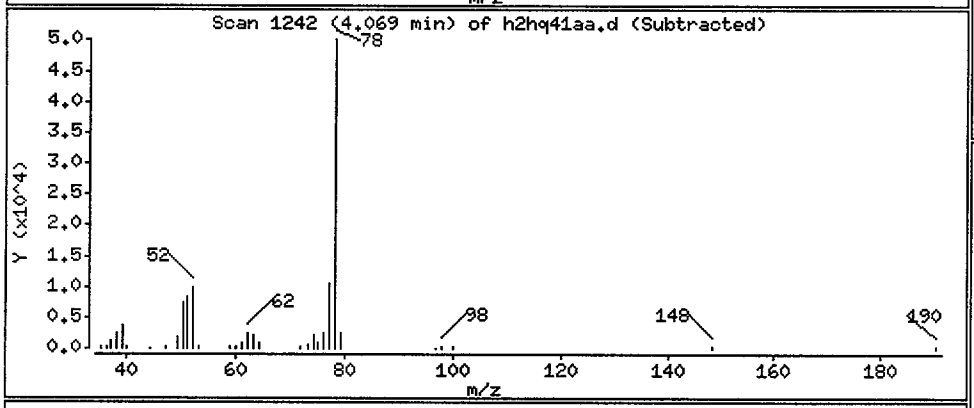
Column diameter: 0.18

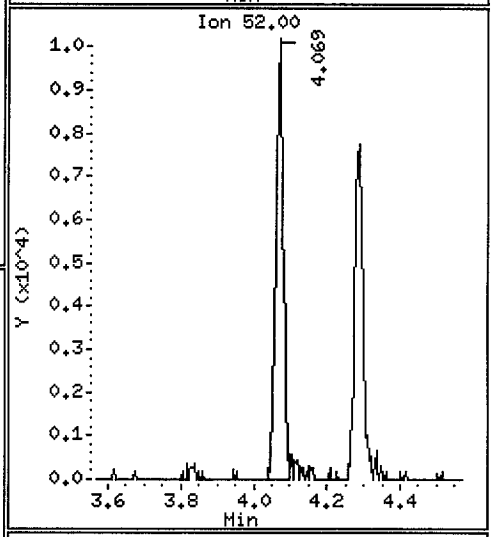
44 Benzene

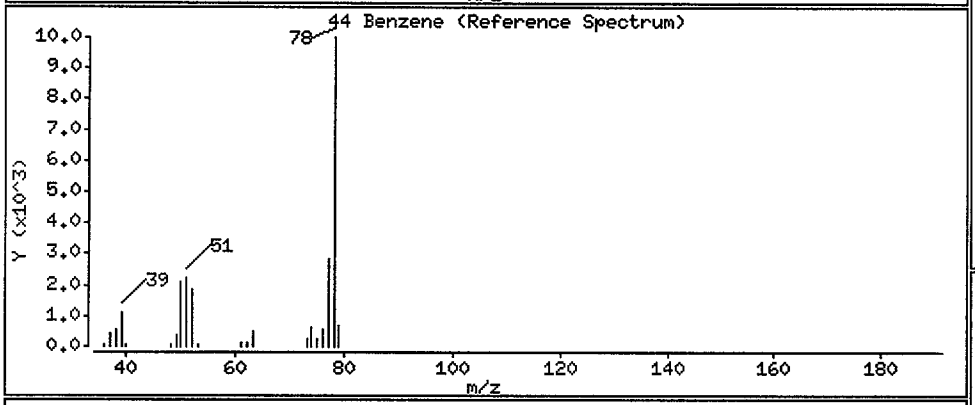
Concentration: 1021.6 ug/Kg

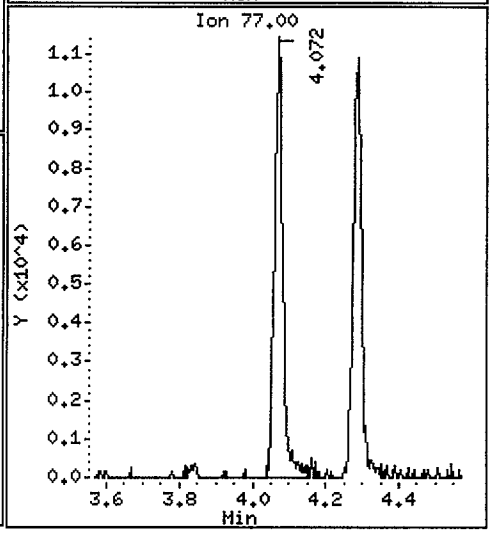


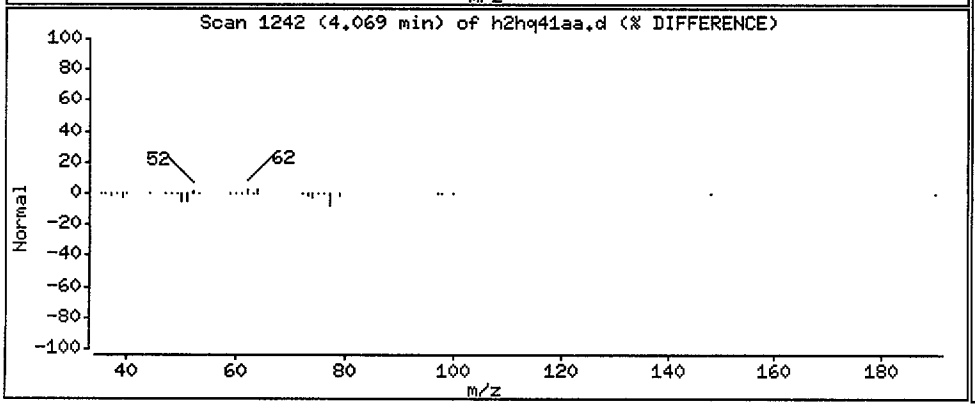












Data File: /chem/gcms/mk.i/K040406.b/h2hq41aa.d

Date : 04-APR-2006 20:24

Client ID: G-3070-R3-SPENT ACT

Instrument: mk.i

Sample Info: H2HQ41AA,5,0,,

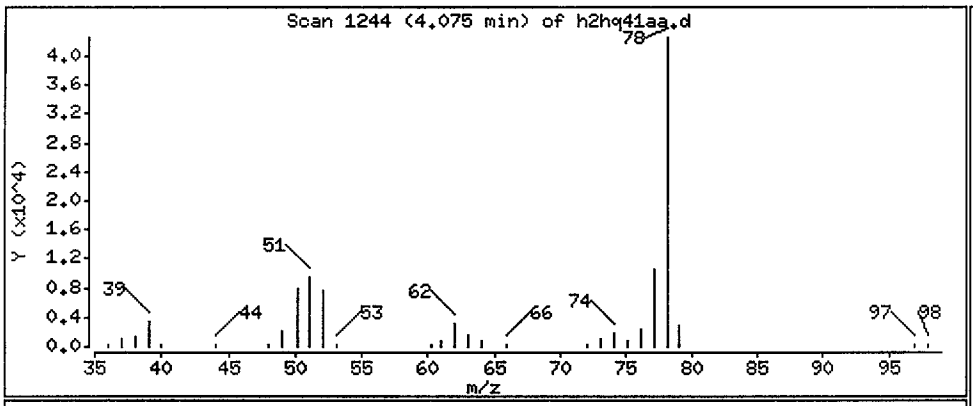
Operator: 063605

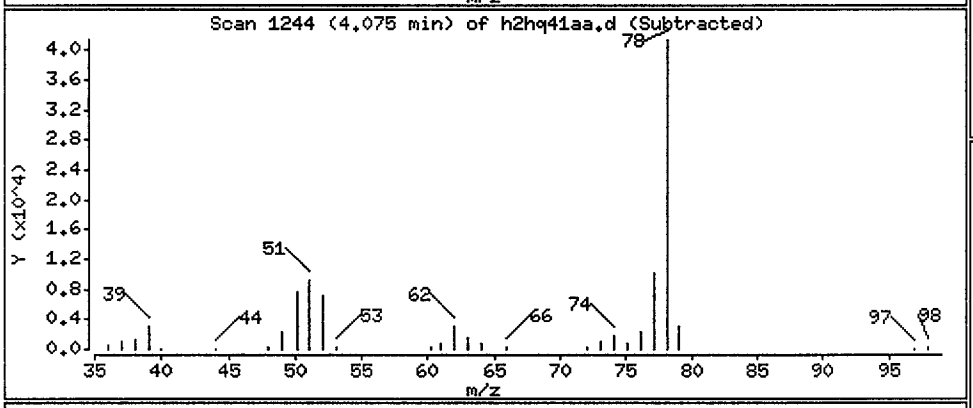
Column phase: J&W-624

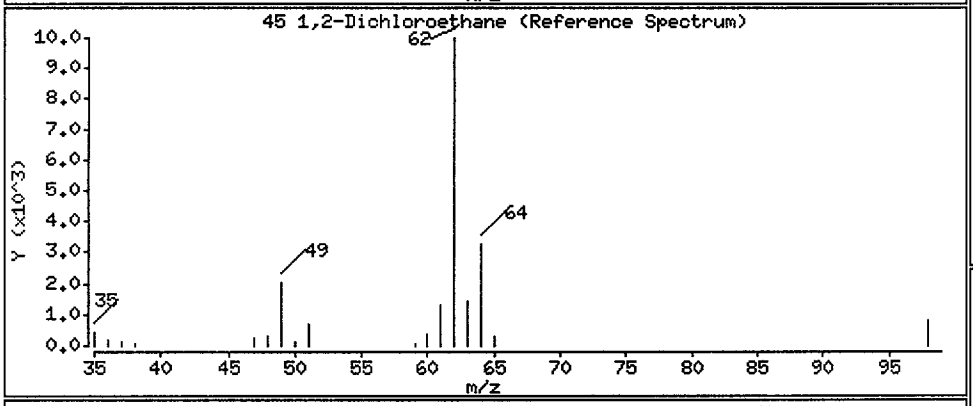
Column diameter: 0.18

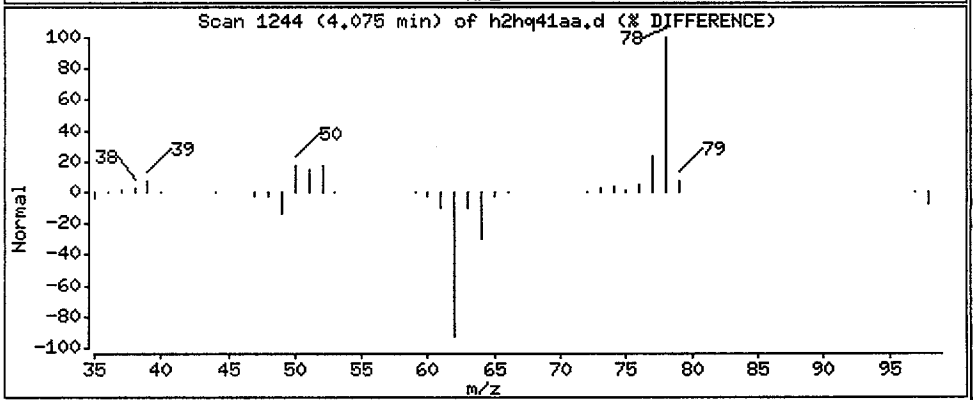
45 1,2-Dichloroethane

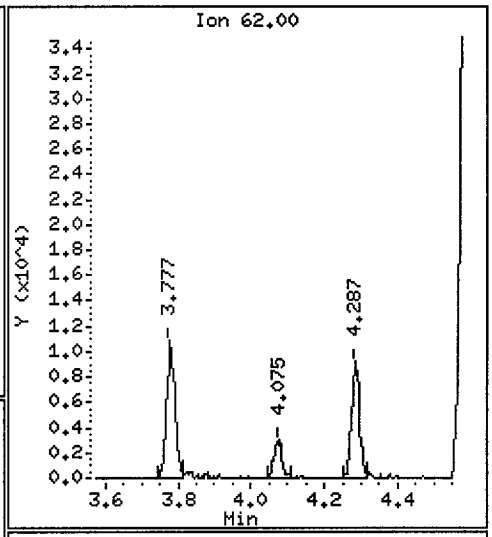
Concentration: 205.38 ug/Kg

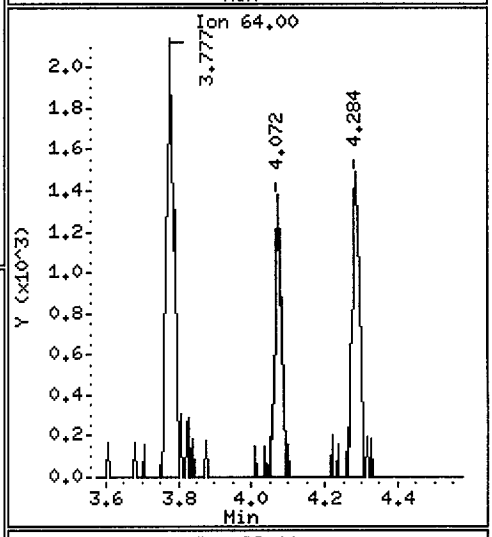


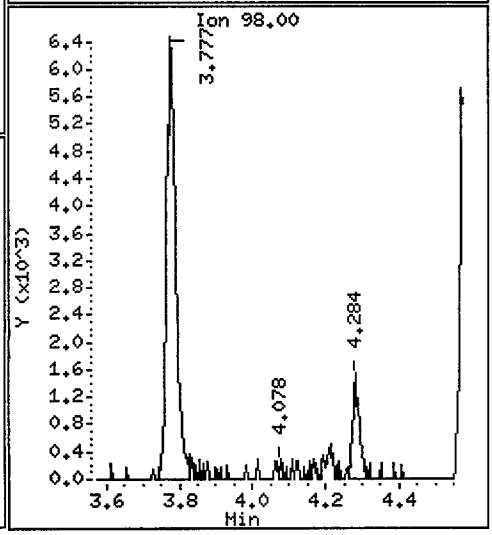












Data File: /chem/gcms/mk.i/K040406.b/h2hq41aa.d

Date : 04-APR-2006 20:24

Client ID: G-3070-R3-SPENT ACT

Instrument: mk.i

Sample Info: H2HQ41AA,5,0,,

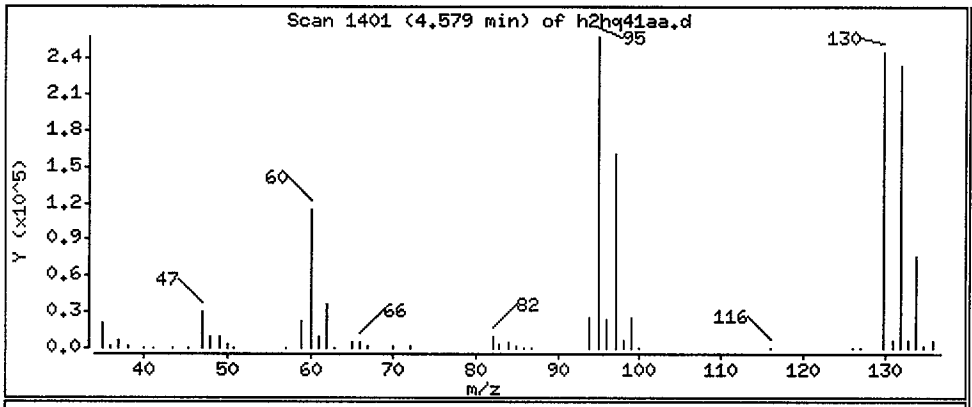
Operator: 063605

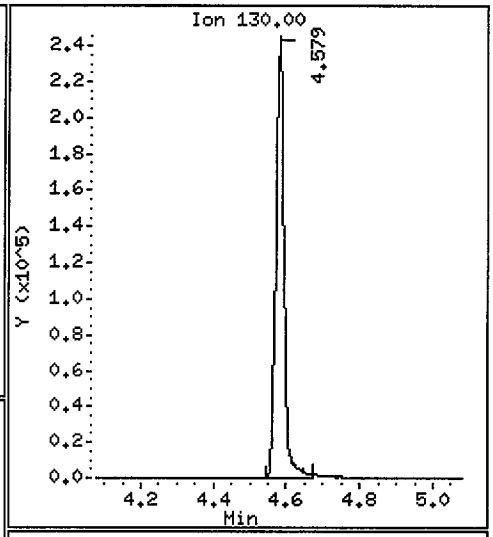
Column phase: J&W-624

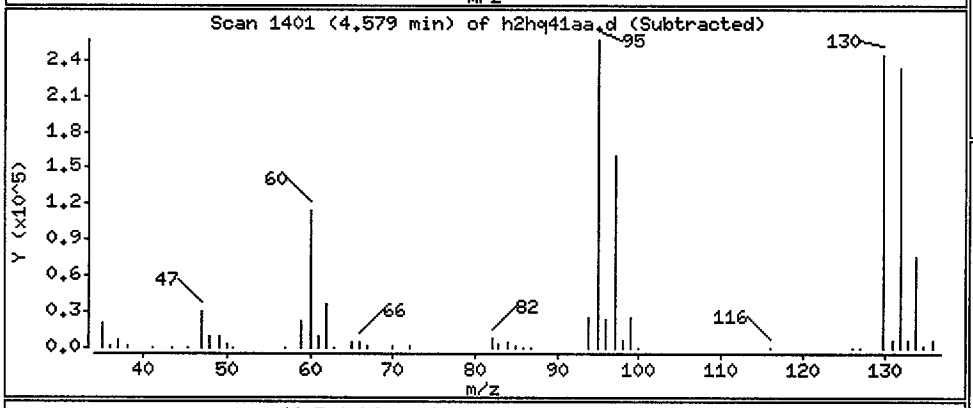
Column diameter: 0.18

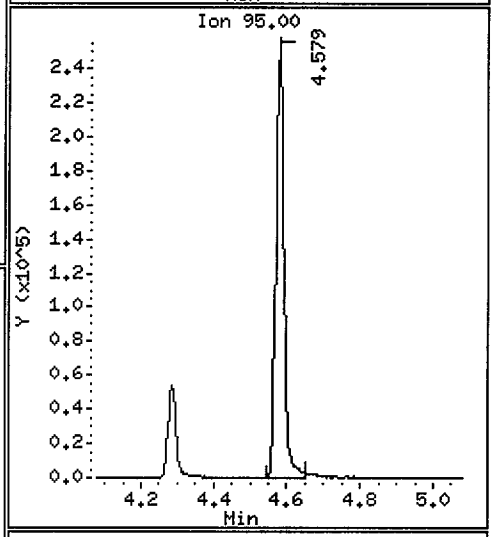
46 Trichloroethene

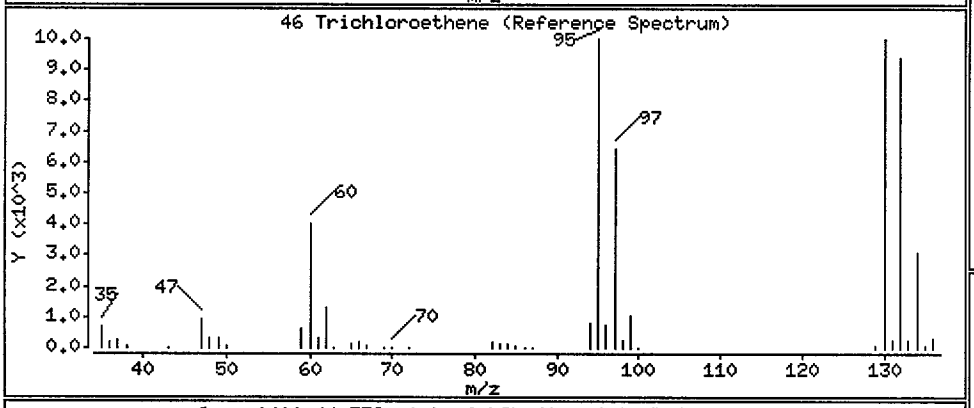
Concentration: 20283 ug/Kg

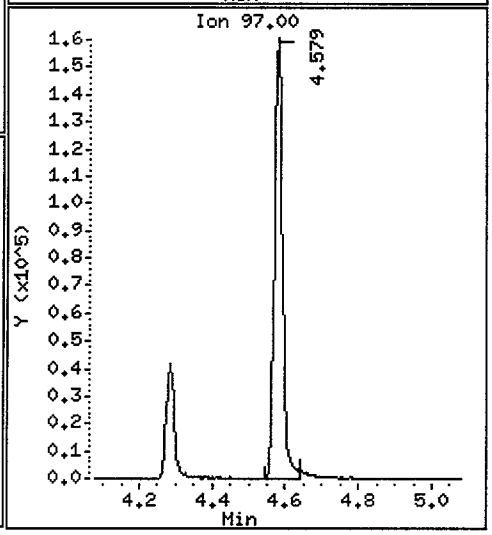


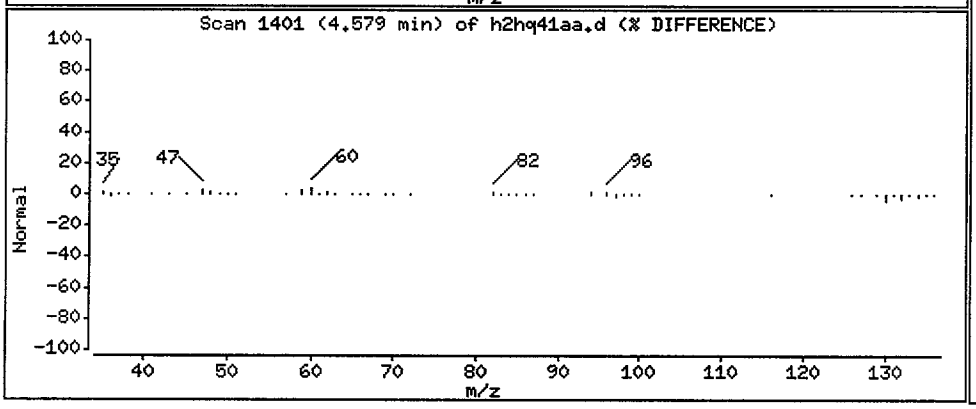












Data File: /chem/gcms/mk.i/K040406.b/h2hq41aa.d

Date : 04-APR-2006 20:24

Client ID: G-3070-R3-SPENT ACT

Instrument: mk.i

Sample Info: H2HQ41AA,5,0,,

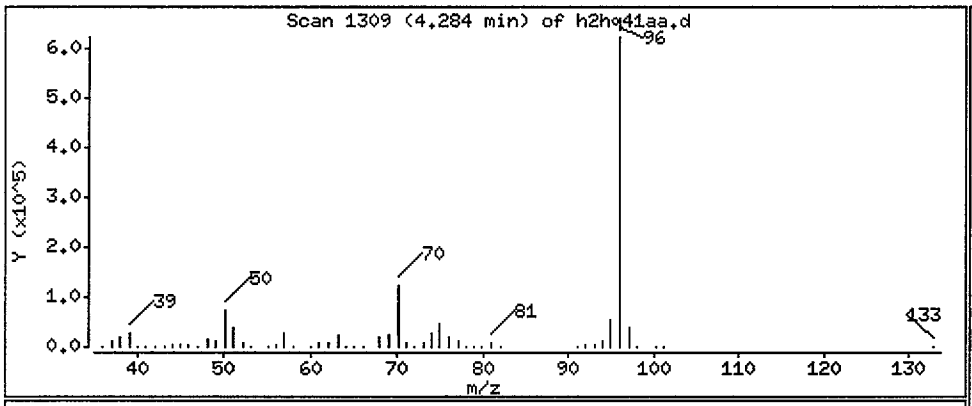
Operator: 063605

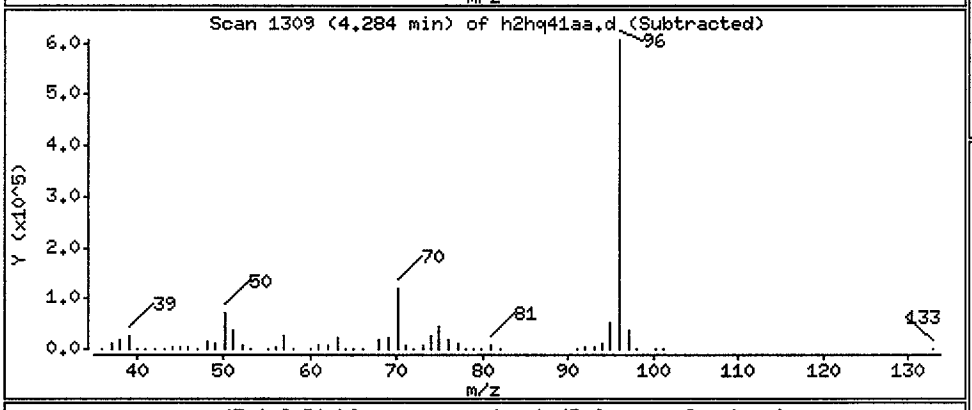
Column phase: J&W-624

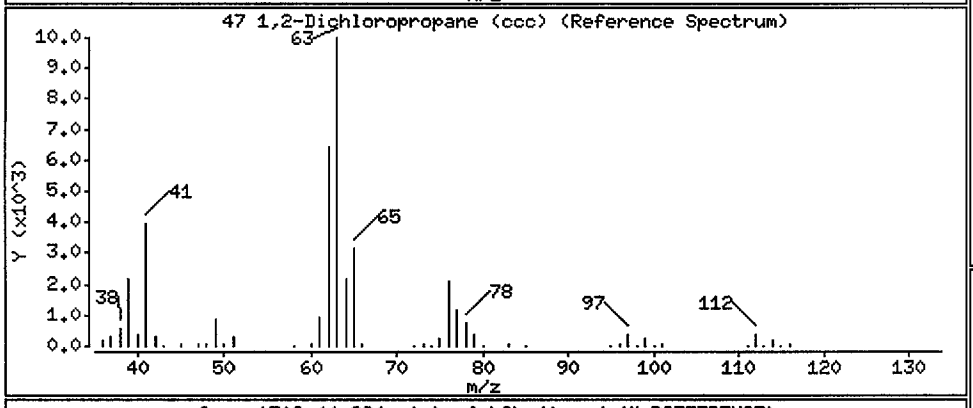
Column diameter: 0.18

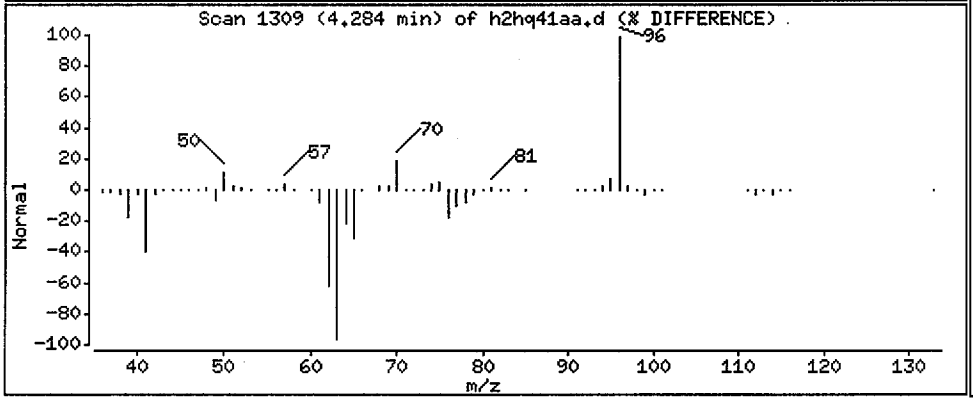
47 1,2-Dichloropropane (ccc)

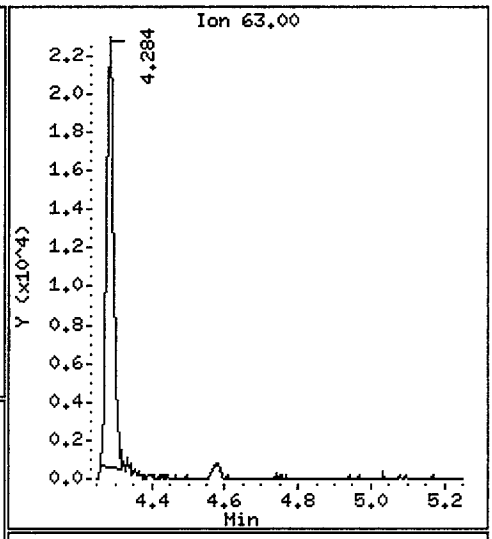
Concentration: 1567.8 ug/Kg

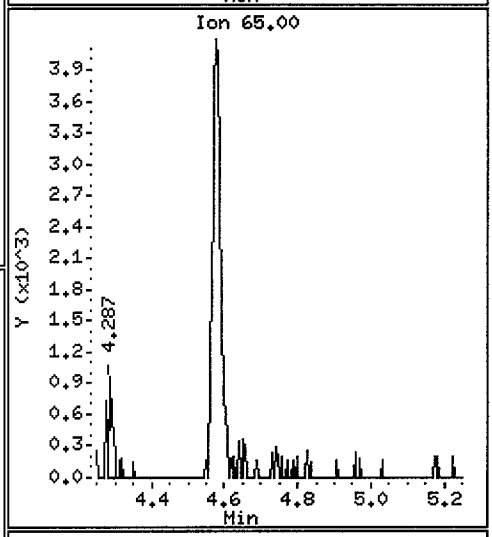


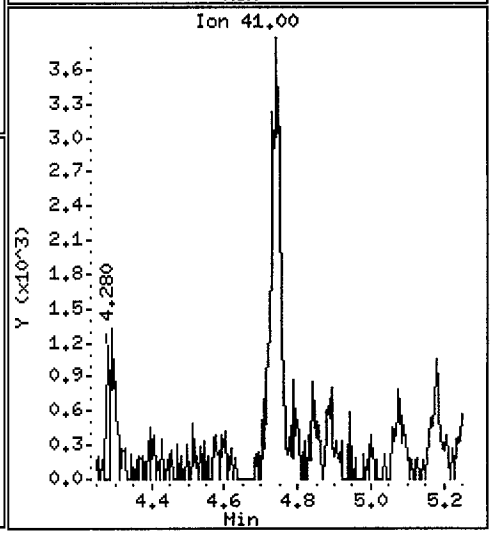












Data File: /chem/gcms/mk.i/K040406.b/h2hq41aa.d

Date : 04-APR-2006 20:24

Client ID: G-3070-R3-SPENT ACT

Instrument: mk.i

Sample Info: H2HQ41AA,5,0,,

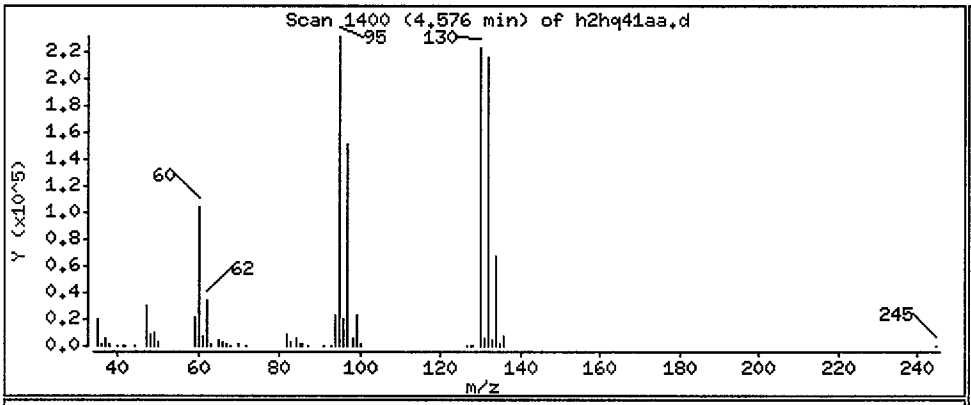
Operator: 063605

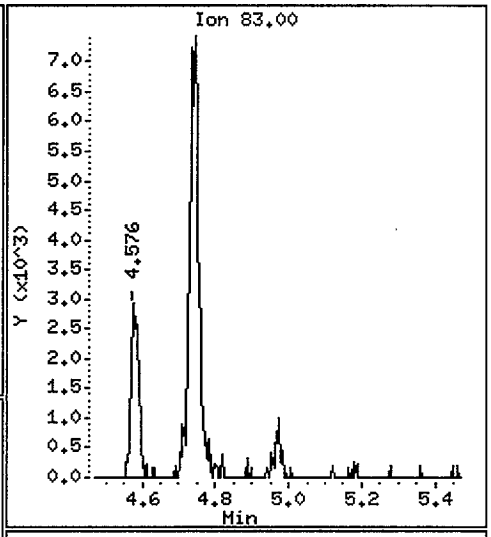
Column phase: J&W-624

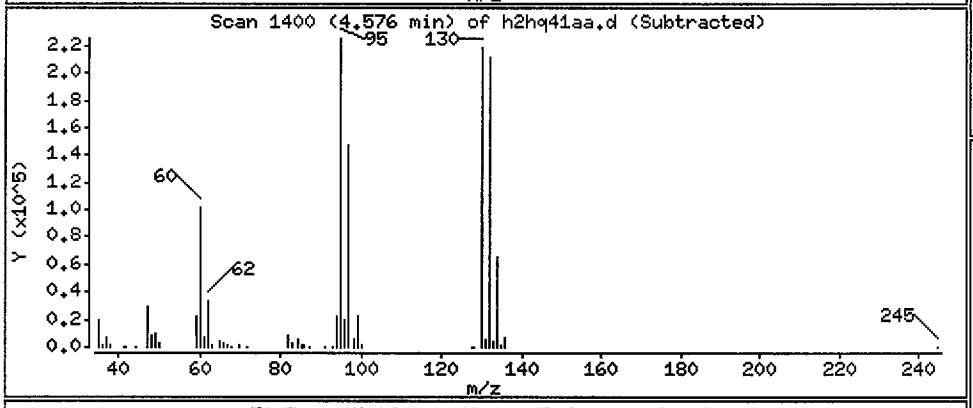
Column diameter: 0.18

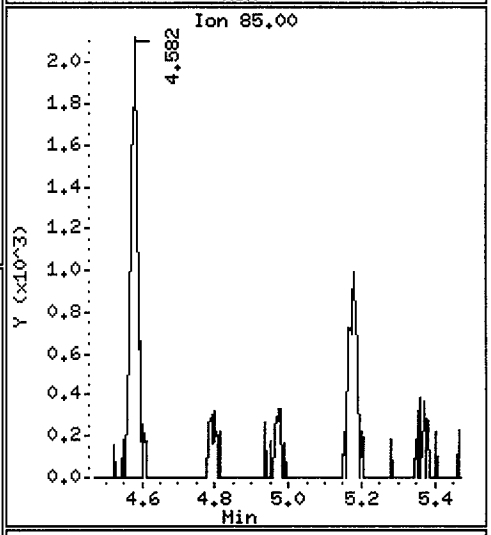
50 Bromodichloromethane

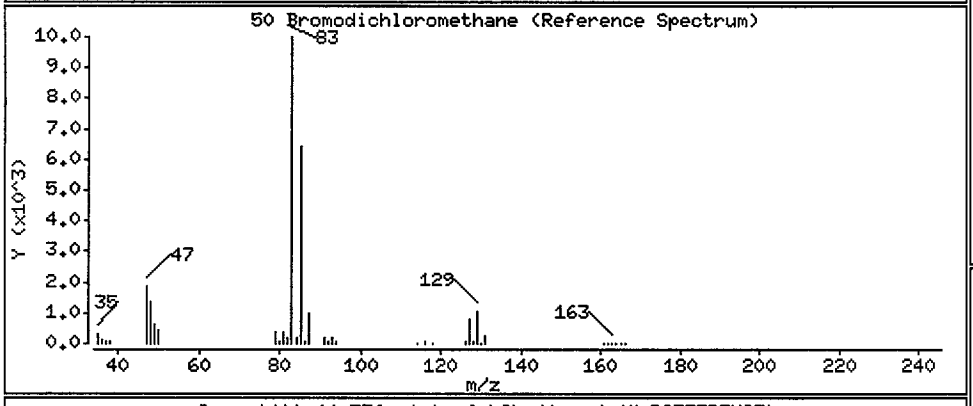
Concentration: 179.75 ug/Kg

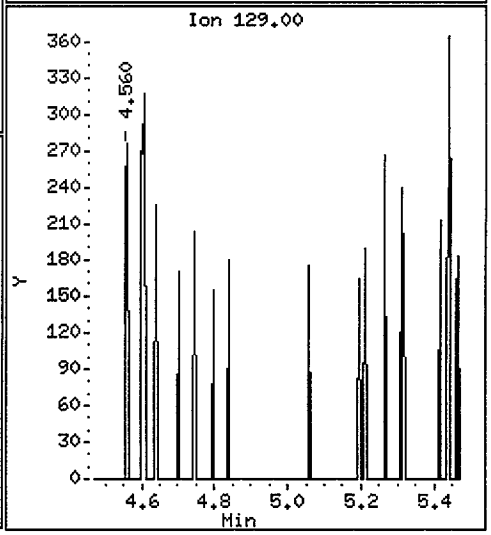


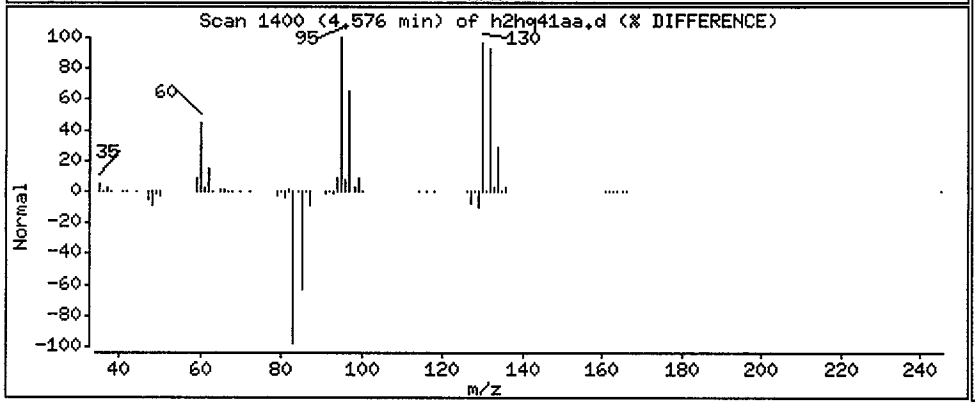












Data File: /chem/gcms/mk.i/K040406.b/h2hq41aa.d

Date : 04-APR-2006 20:24

Client ID: G-3070-R3-SPENT ACT

Instrument: mk.i

Sample Info: H2HQ41AA,5,0,,

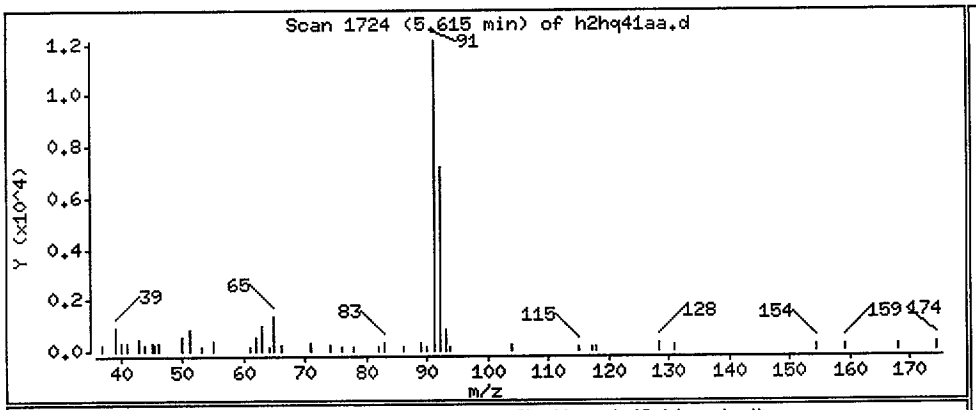
Operator: 063605

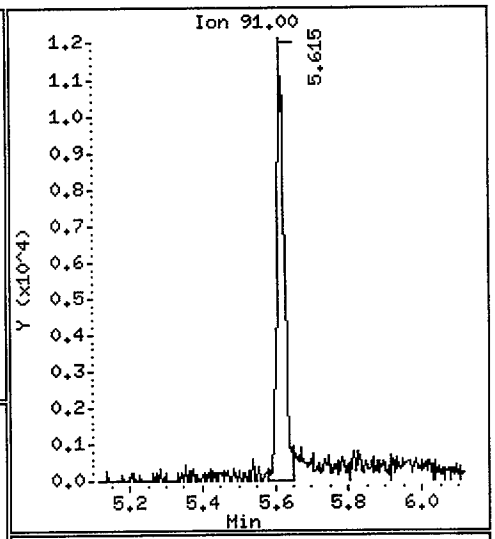
Column phase: J&W-624

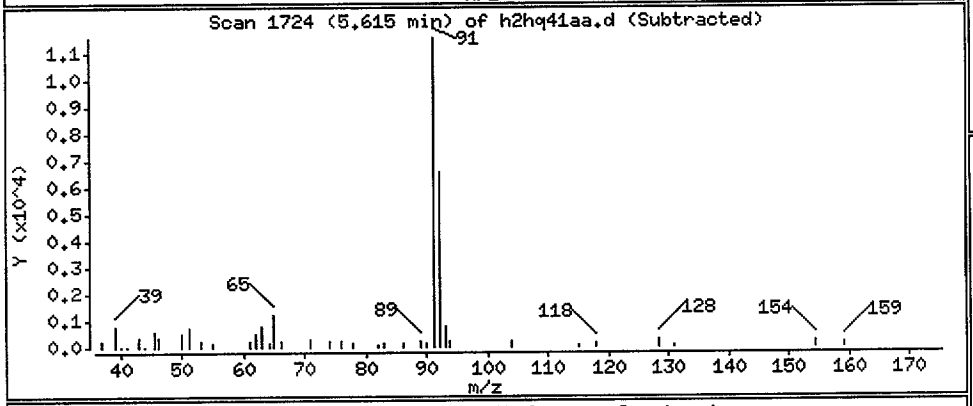
Column diameter: 0.18

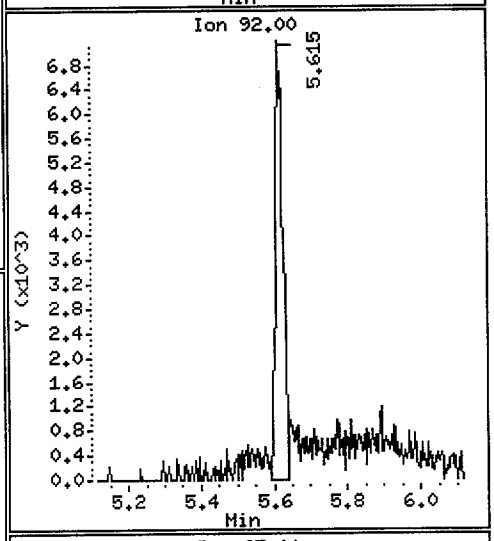
54 Toluene (ccc)

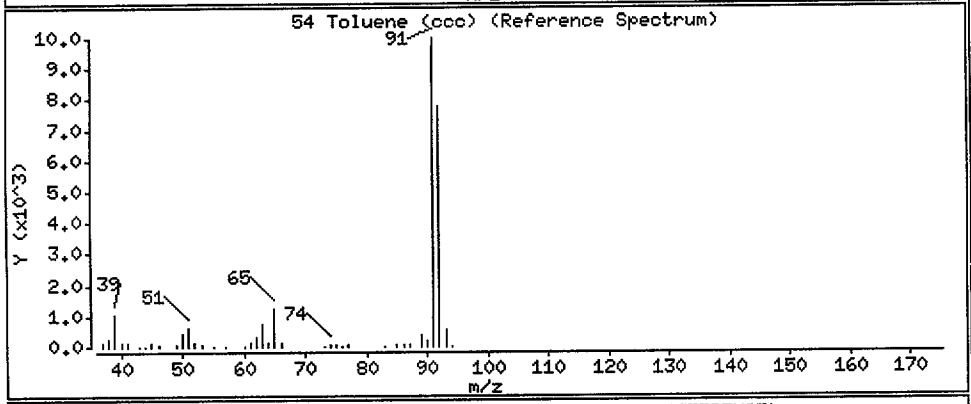
Concentration: 205.62 ug/Kg

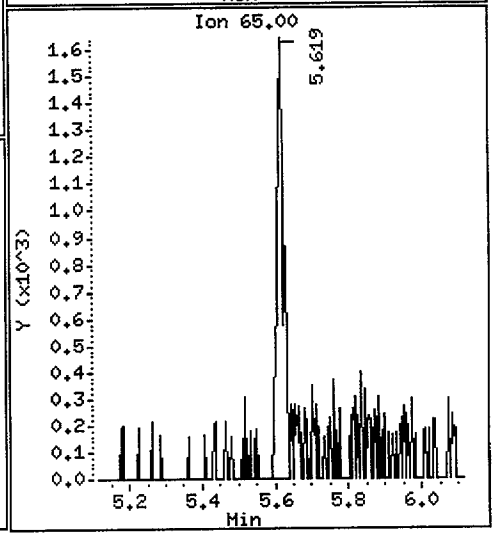


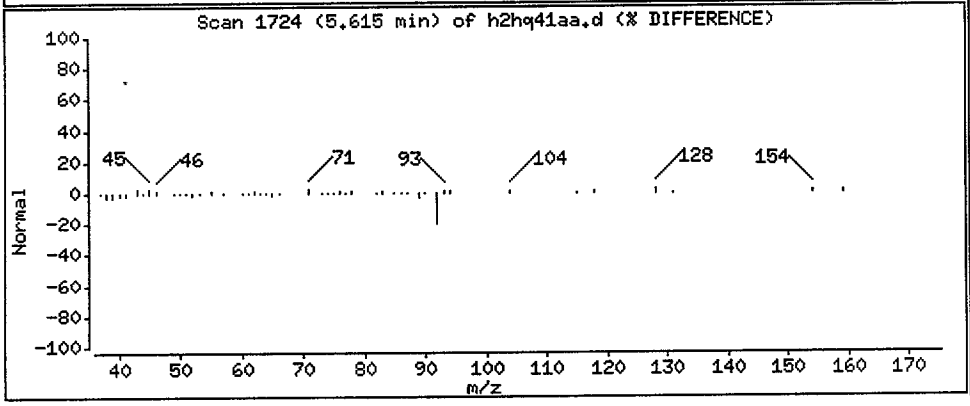












Data File: /chem/gcms/mk.i/K040406.b/h2hq41aa.d

Date : 04-APR-2006 20:24

Client ID: G-3070-R3-SPENT ACT

Instrument: mk.i

Sample Info: H2HQ41AA,5,0,,

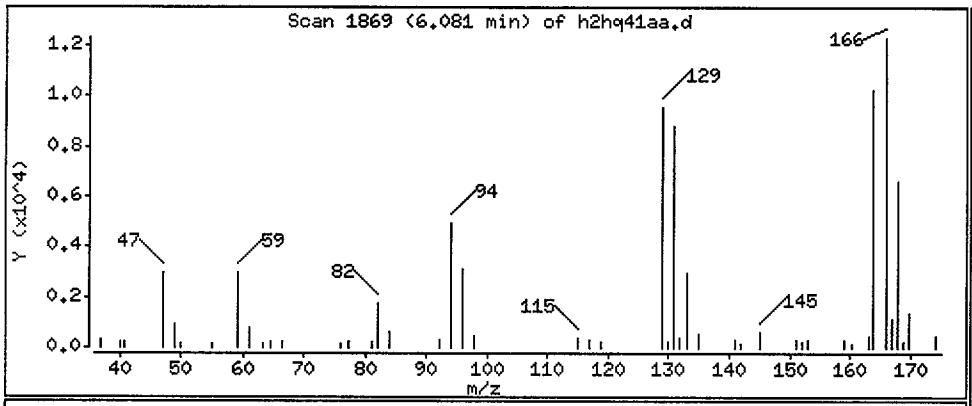
Operator: 063605

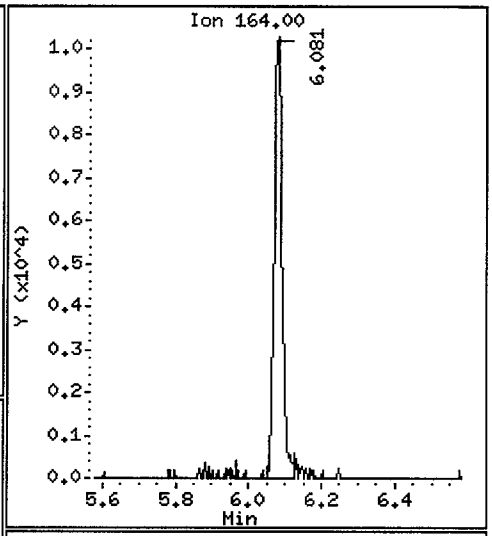
Column phase: J&W-624

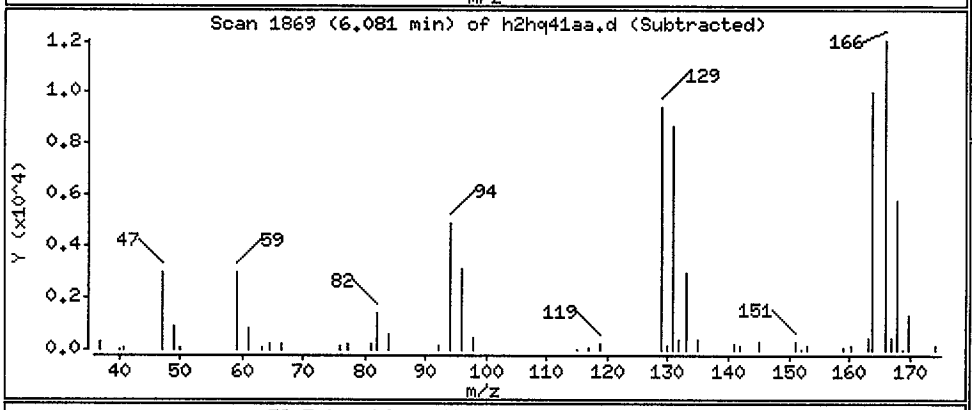
Column diameter: 0.18

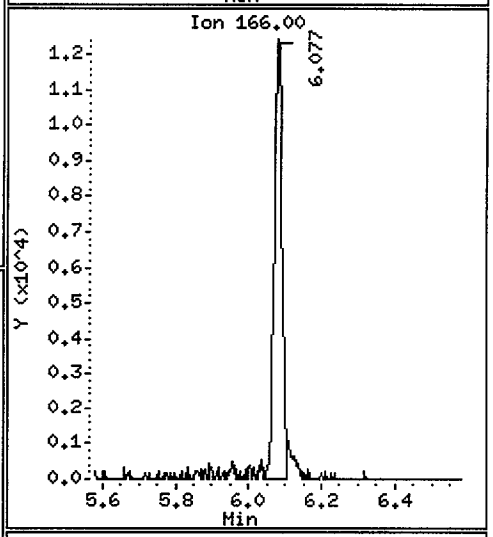
58 Tetrachloroethene

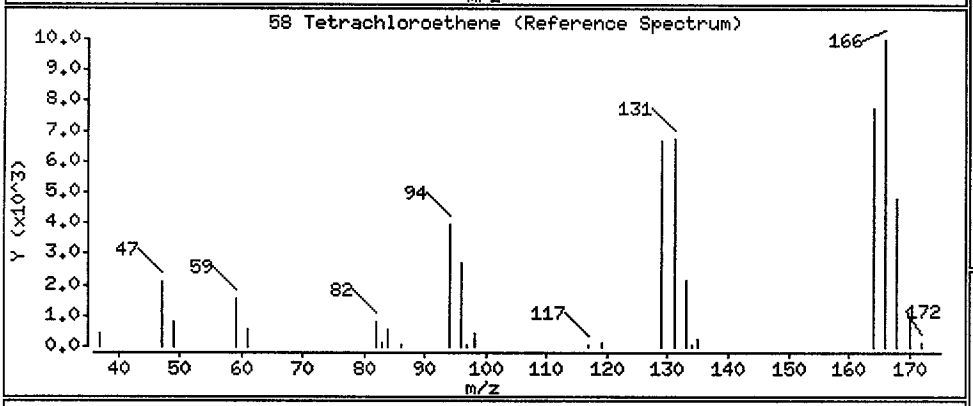
Concentration: 1142.4 ug/Kg

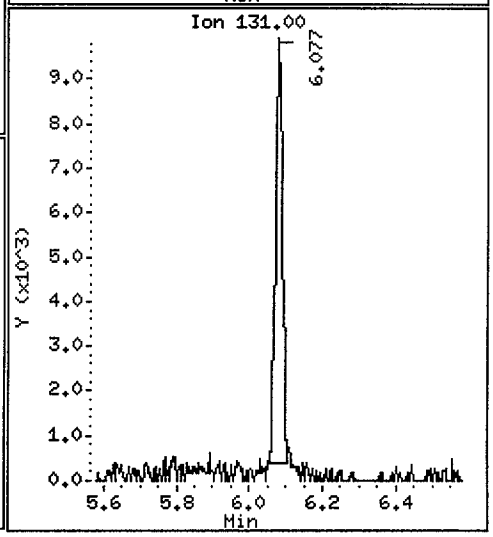


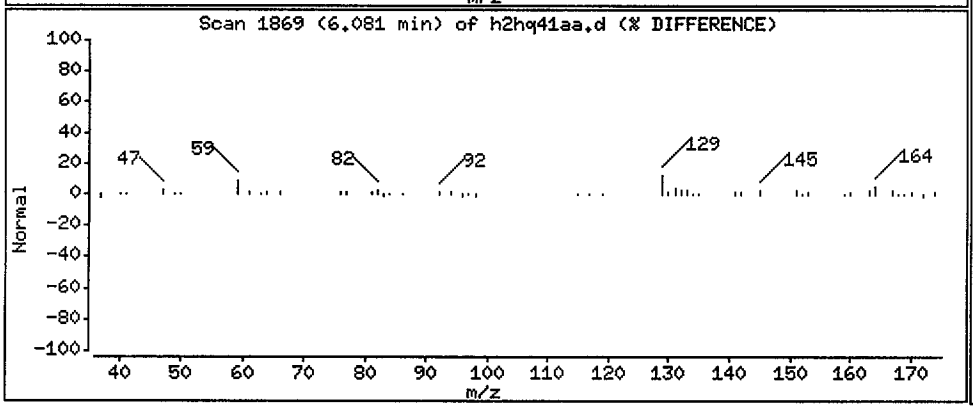












Data File: /chem/gcms/mk.i/K040406.b/h2hq41aa.d

Date : 04-APR-2006 20:24

Client ID: G-3070-R3-SPENT ACT

Instrument: mk.i

Sample Info: H2HQ41AA,5,0,,

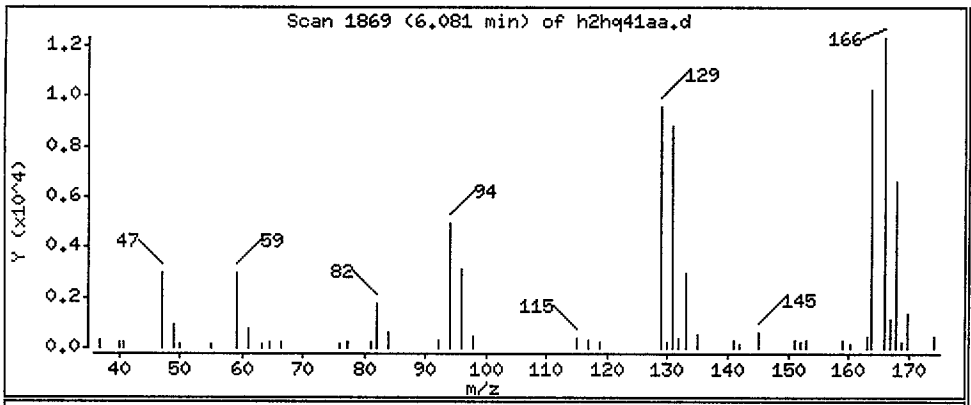
Operator: 063605

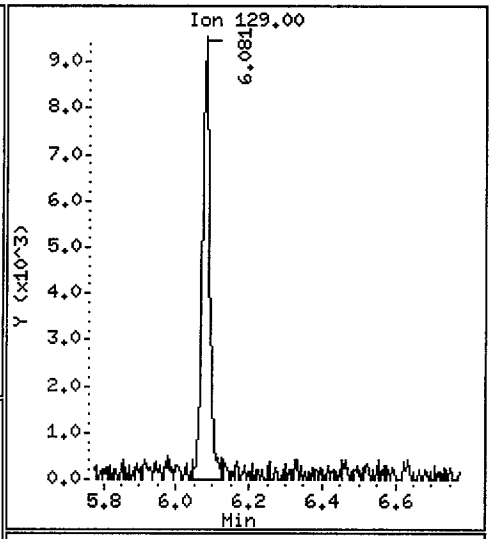
Column phase: J&W-624

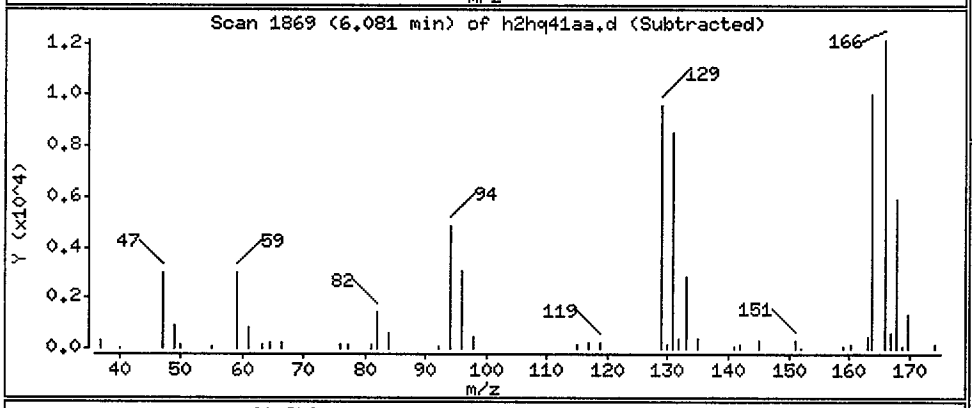
Column diameter: 0.18

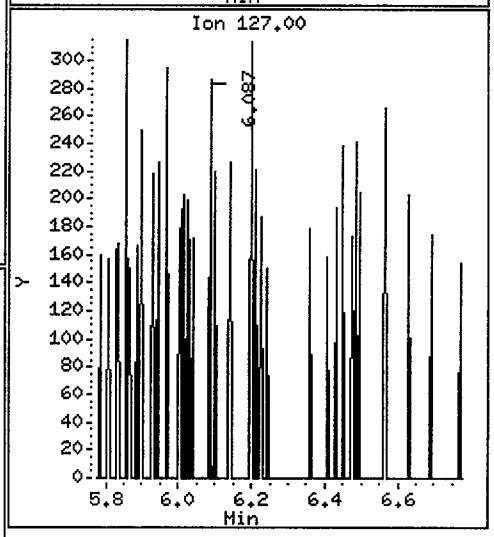
61 Chlorodibromomethane

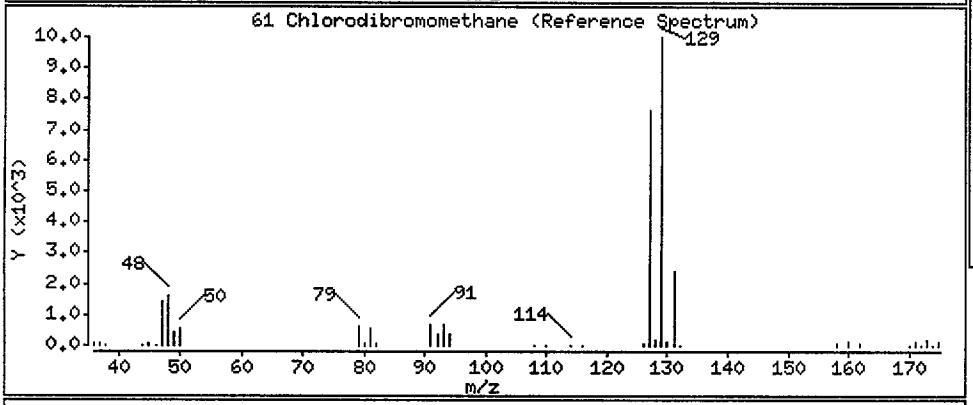
Concentration: 890.65 ug/Kg

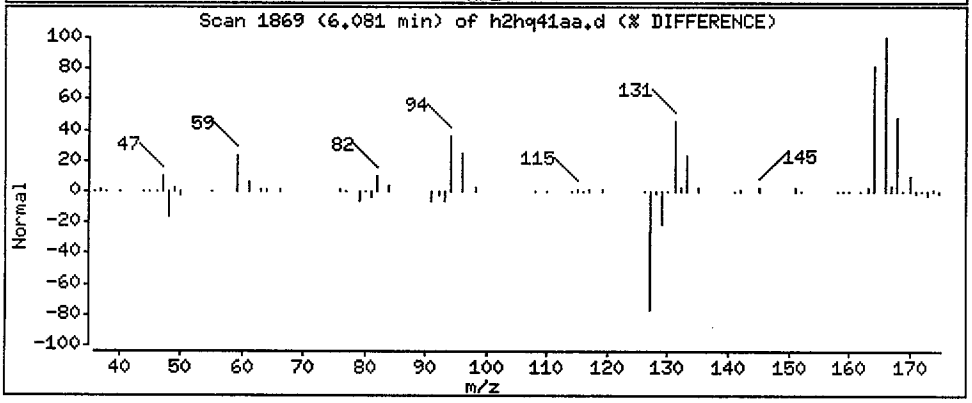












Data File: /chem/gcms/mk.i/K040406.b/h2hq41aa.d

Date : 04-APR-2006 20:24

Client ID: G-3070-R3-SPENT ACT

Instrument: mk.i

Sample Info: H2HQ41AA,5,0,,

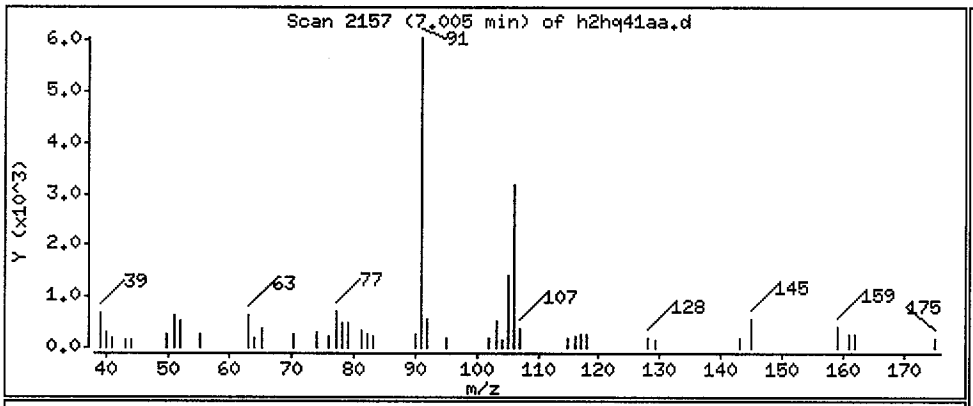
Operator: 063605

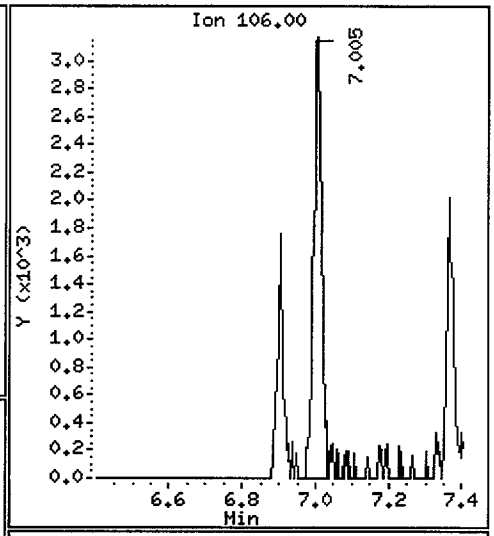
Column phase: J&W-624

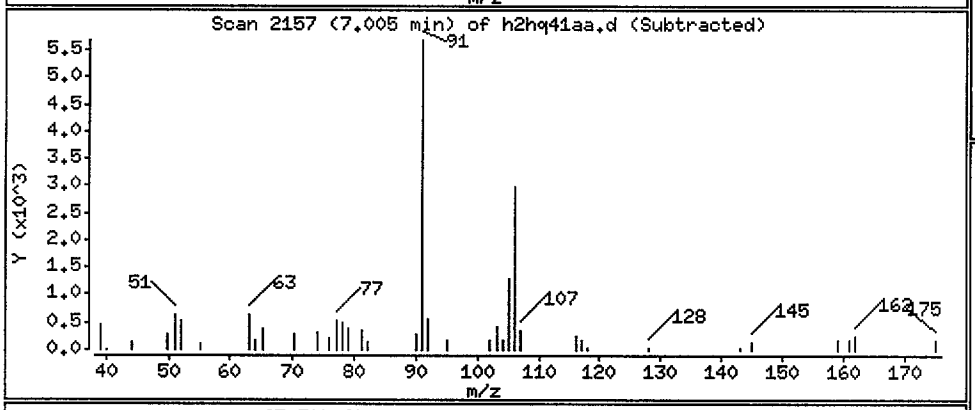
Column diameter: 0.18

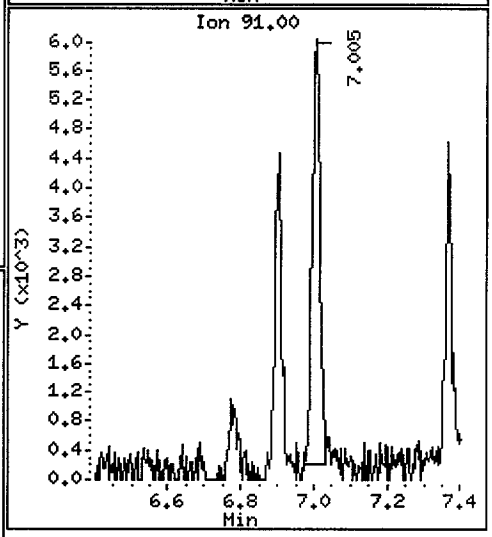
65 Ethylbenzene (ccc)

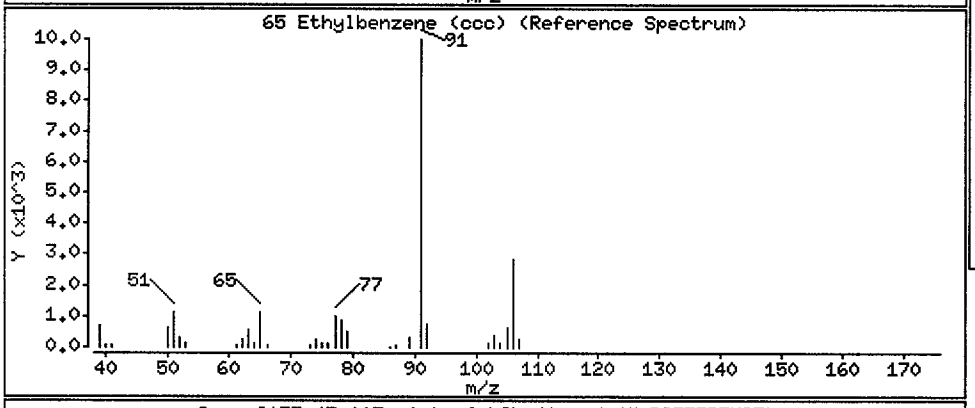
Concentration: 180.18 ug/Kg

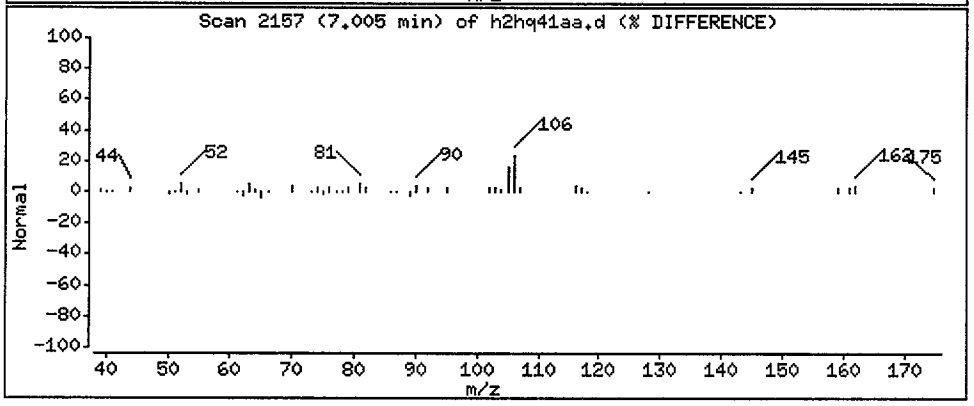












Data File: /chem/gcms/mk.i/K040406.b/h2hq41aa.d

Date : 04-APR-2006 20:24

Client ID: G-3070-R3-SPENT ACT

Instrument: mk.i

Sample Info: H2HQ41AA,5,0,,

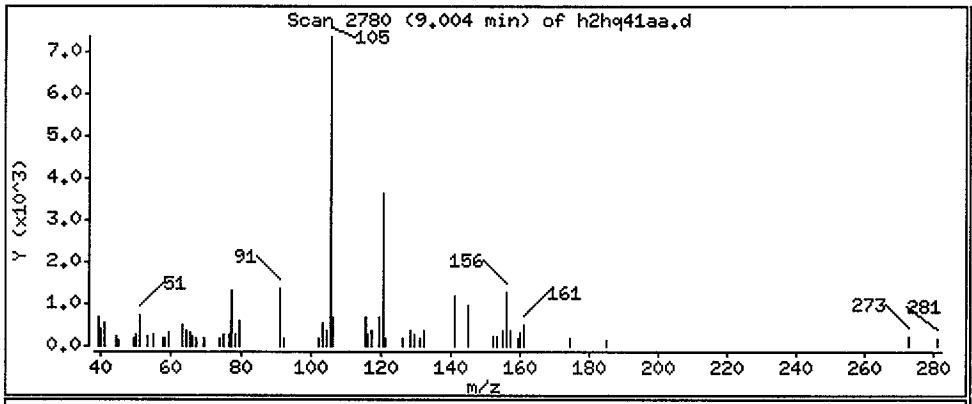
Operator: 063605

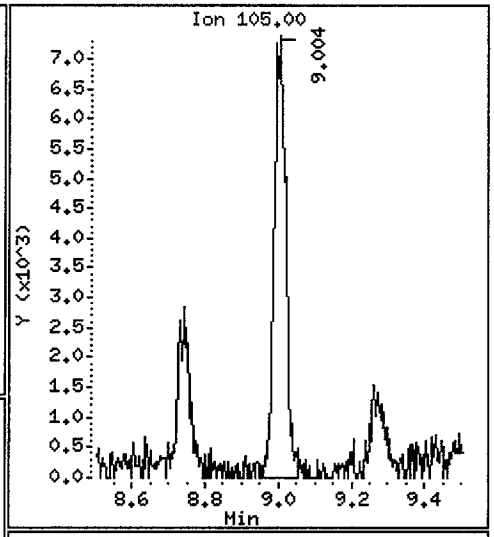
Column phase: J&W-624

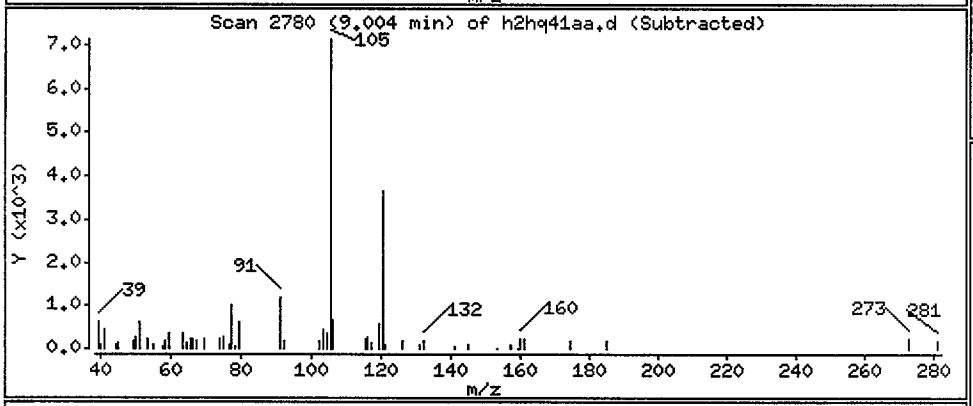
Column diameter: 0.18

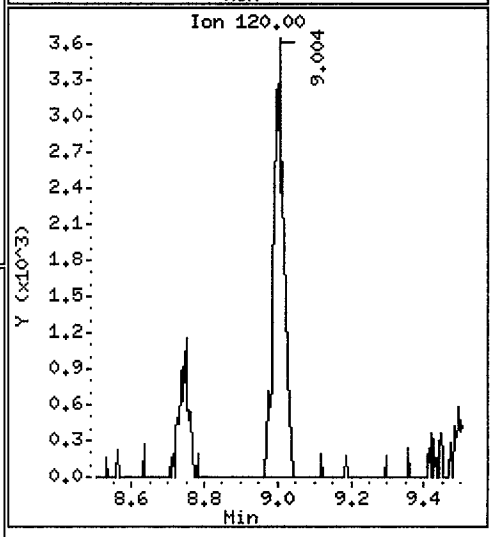
81 1,2,4-Trimethylbenzene

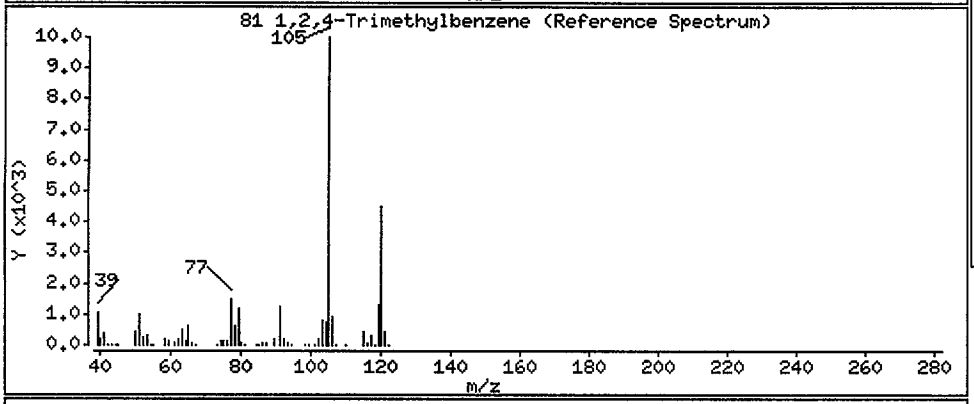
Concentration: 247.96 ug/Kg

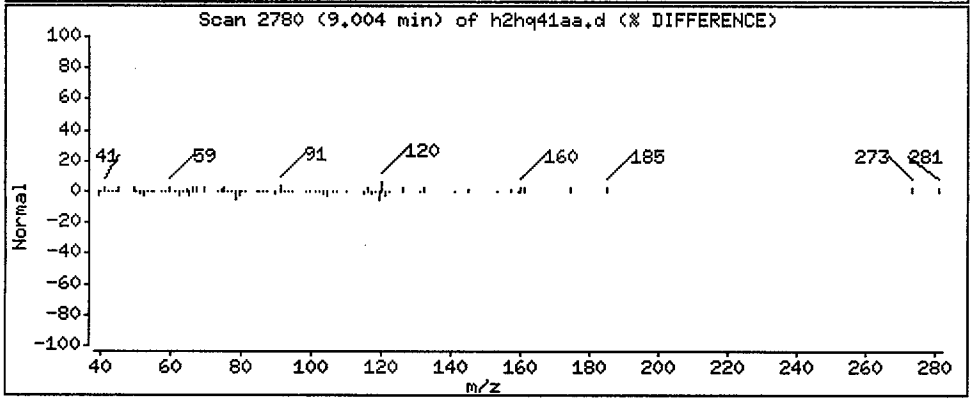












Data File: /chem/gcms/mk.i/K040406.b/h2hq41aa.d

Date : 04-APR-2006 20:24

Client ID: G-3070-R3-SPENT ACT

Instrument: mk.i

Sample Info: H2HQ41AA,5,0,,

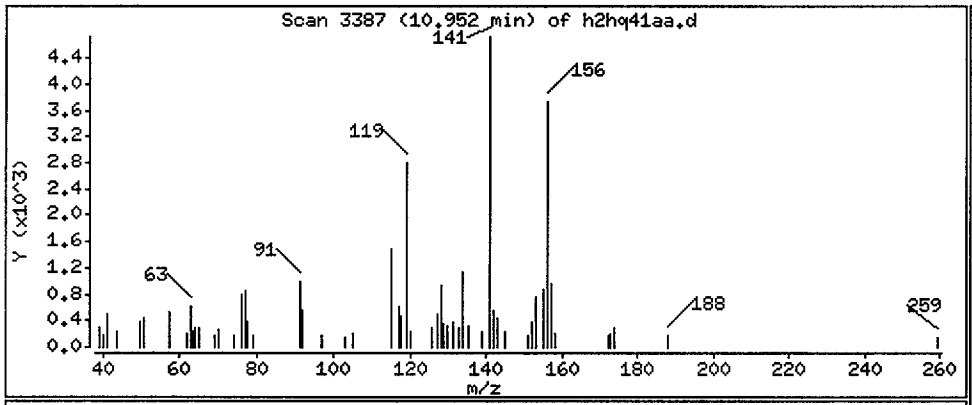
Operator: 063605

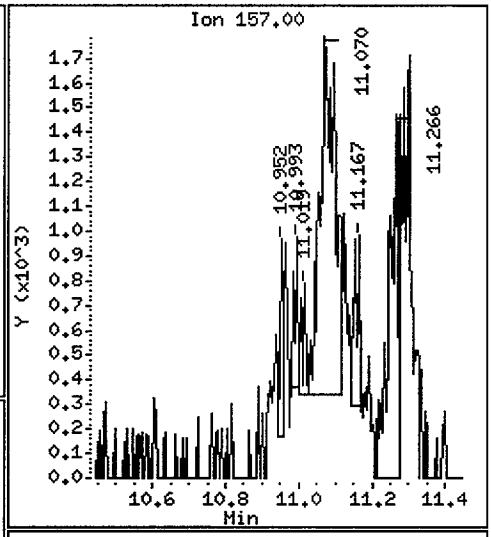
Column phase: J&W-624

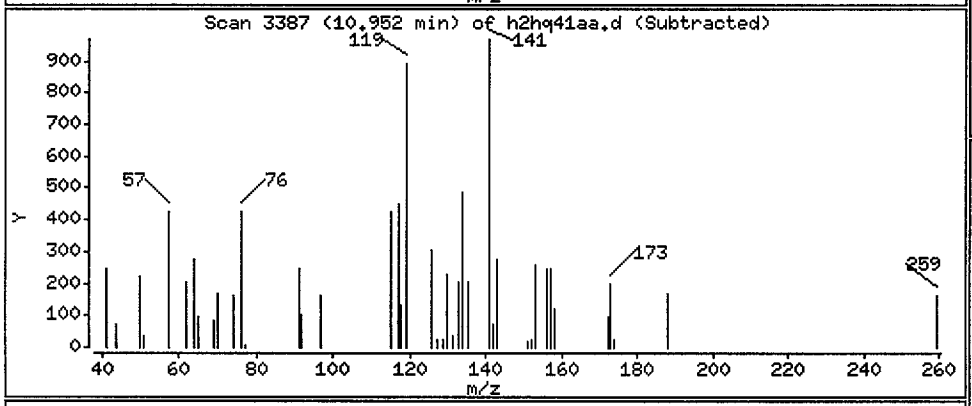
Column diameter: 0.18

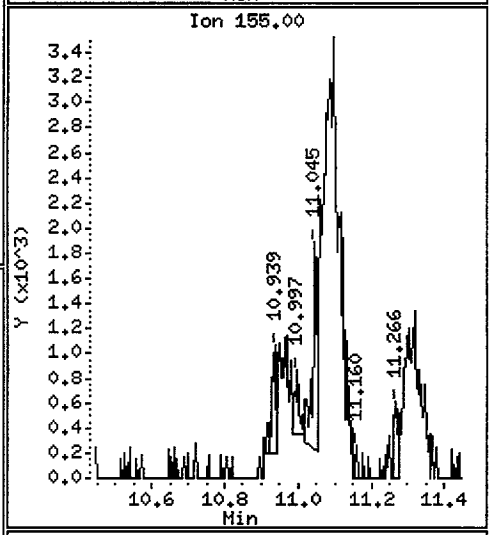
88 1,2-Dibromo-3-chloropropane

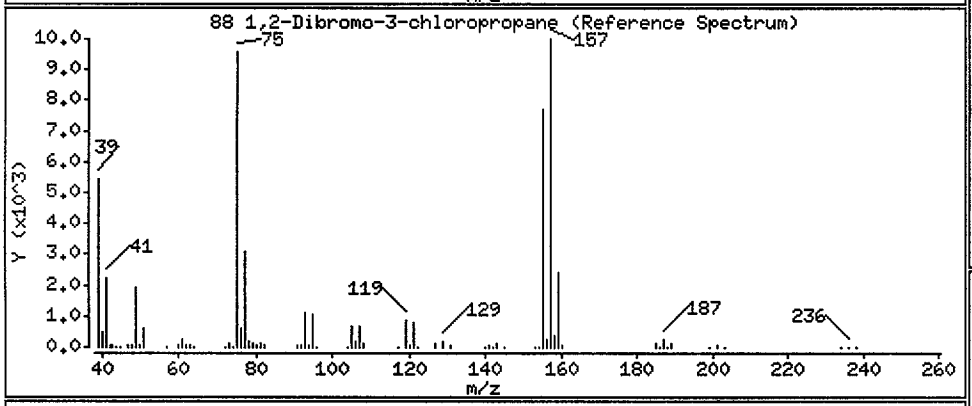
Concentration: 165.09 ug/Kg

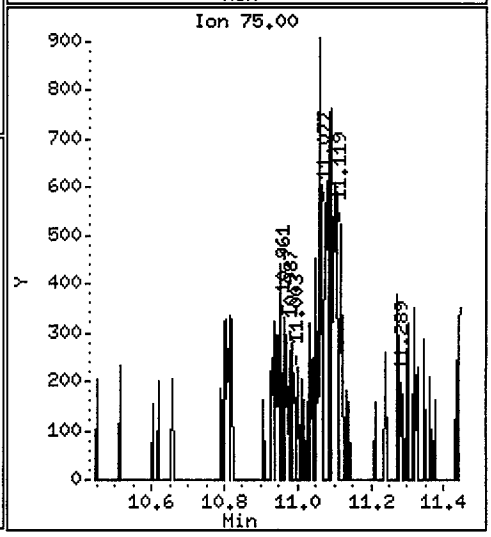


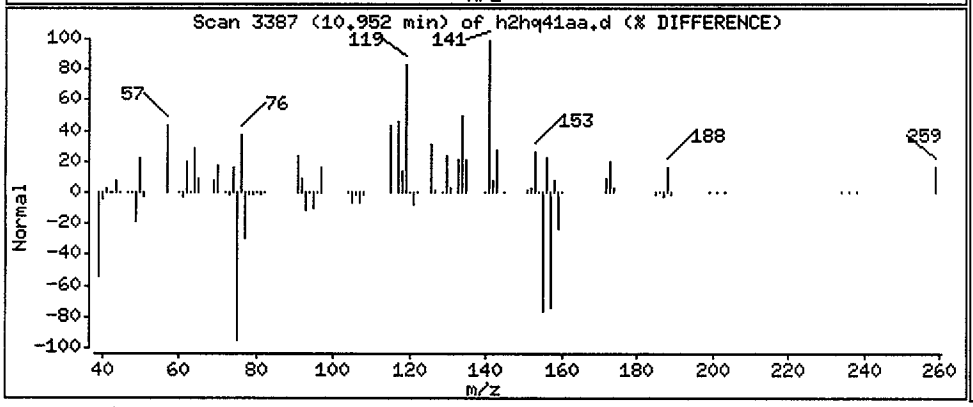












Data File: /chem/gcms/mk.i/K040406.b/h2hq41aa.d

Date : 04-APR-2006 20:24

Client ID: G-3070-R3-SPENT ACT

Instrument: mk.i

Sample Info: H2HQ41AA,5,0,,

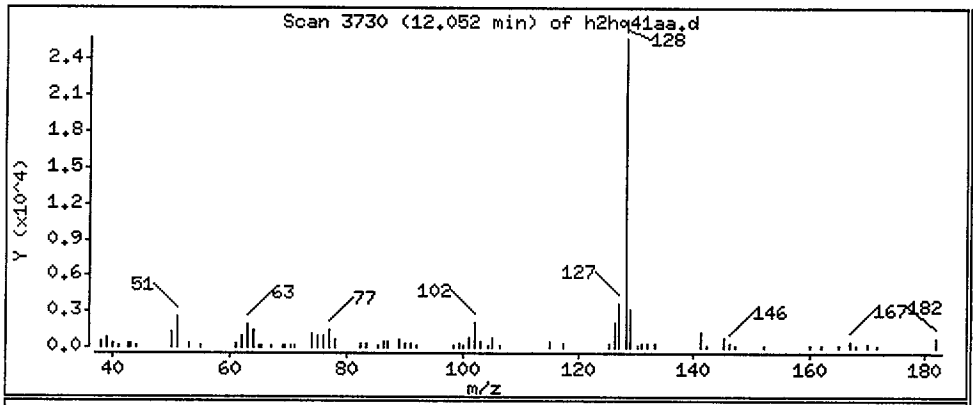
Operator: 063605

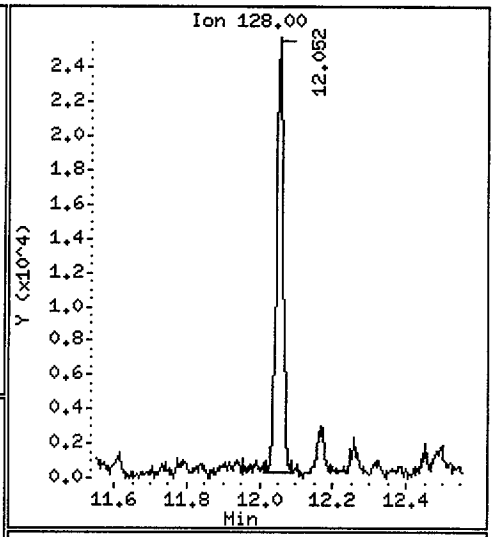
Column phase: J&W-624

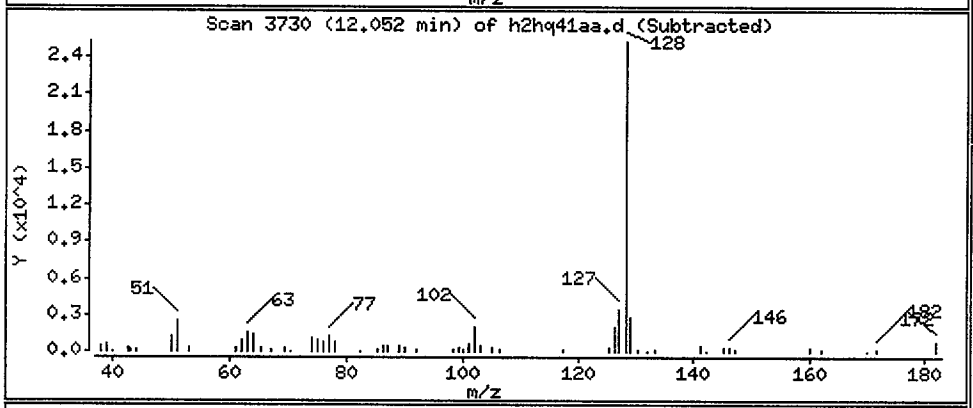
Column diameter: 0.18

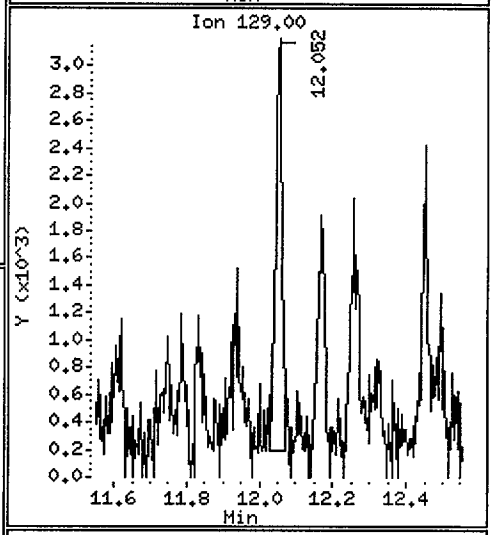
91 Napthalene

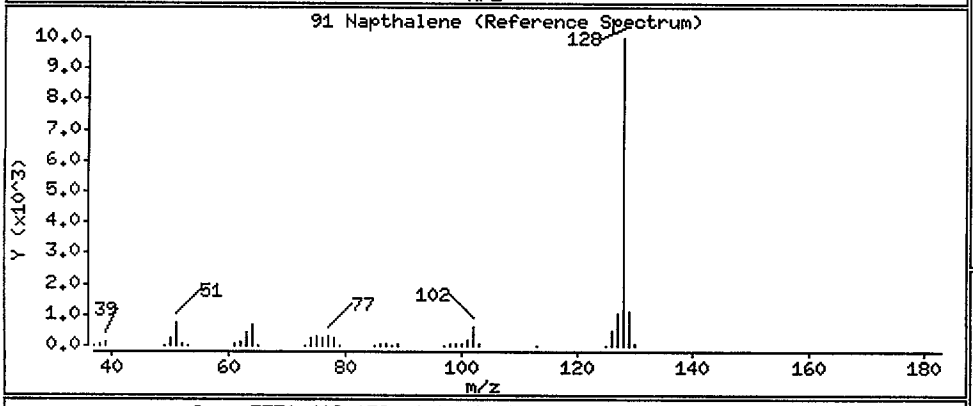
Concentration: 595.82 ug/Kg

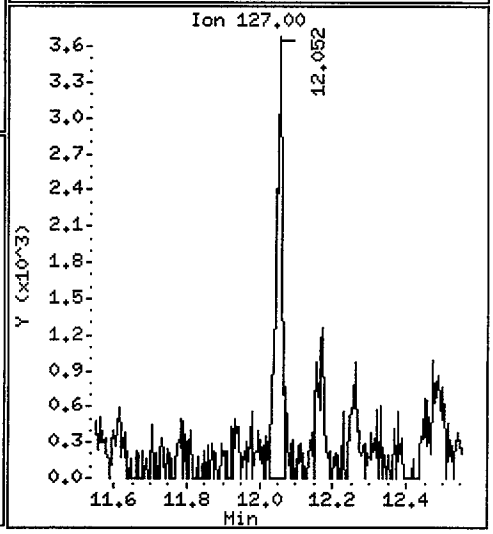


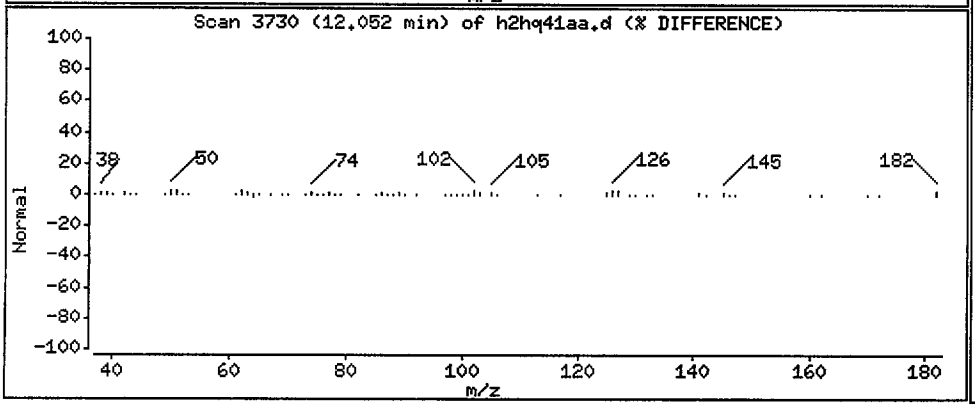












Data File: /var/chem/gcms/mk.i/K040406.b/h2hq41aa.d
Report Date: 05-Apr-2006 20:20

STL Knoxville

Volatile Organics by GC/MS

Data file : /var/chem/gcms/mk.i/K040406.b/h2hq41aa.d
Lab Smp Id: H2HQ41AA Client Smp ID: G-3070-R3-SPENT ACT
Inj Date : 04-APR-2006 20:24
Operator : 063605 Inst ID: mk.i
Smp Info : H2HQ41AA,5,0,,
Misc Info : K040406,MS8260NM,focus.sub
Comment : Volatile Organics by GC/MS
Method : /var/chem/gcms/mk.i/K040406.b/MS8260NM.m
Meth Date : 05-Apr-2006 20:20 tillerm Quant Type: ISTD
Cal Date : 03-FEB-2006 14:40 Cal File: fickb038.d
Als bottle: 1
Dil Factor: 5.00000
Integrator: HP RTE Compound Sublist: focus.sub
Target Version: 3.50

Concentration Formula: Amt * DF * (Vt*5)/(Ws*Va) * CpndVariable

Vt	5000.00000	Sample Volume Purged
Ws	4.99000	Weight of sample
Va	100.00000	Volume of Methanol Aliquot

Cpnd Variable Local Compound Variable

ISTD	RT	HEIGHT	AMOUNT
* 1 Fluorobenzene	4.287	1354673	50.000
* 3 1,4 Dichlorobenzene-d4	9.498	906147	50.000

		CONCENTRATIONS			QUANT		
RT	HEIGHT	ON-COL(ug/L)	FINAL(ug/Kg)	QUAL	LIBRARY	LIB ENTRY	CPND #
Carbon dioxide				CAS #: 124-38-9			
0.754	156254	5.76722205	1444.7	5	NIST05.1	80	1
Isobutane				CAS #: 75-28-5			
0.978	707395	26.1094375	6540.4	86	NIST05.1	230	1
Butane				CAS #: 106-97-8			
1.094	165499	6.10844831	1530.2	72	NIST05.1	227	1

Data File: /var/chem/gcms/mk.i/K040406.b/h2hq41aa.d
Report Date: 05-Apr-2006 20:20

		CONCENTRATIONS			QUANT		
RT	HEIGHT	ON-COL(ug/L)	FINAL(ug/Kg)	QUAL	LIBRARY	LIB ENTRY	CPND #
Naphthalene, 1,3-dimethyl-					CAS #: 575-41-7		
10.050	159987	8.82787230	2211.4	97	NIST05.l	27289	3
Naphthalene, 2,6-dimethyl-					CAS #: 581-42-0		
10.246	115368	6.36585455	1594.6	97	NIST05.l	27303	3
Naphthalene, 1,2,3,4-tetrahydro-2-methyl					CAS #: 3877-19-8		
12.168	94596	5.21968290	1307.5	89	NIST05.l	20843	3
Naphthalene, 1,2,3,4-tetrahydro-5-methyl					CAS #: 2809-64-5		
12.627	252418	13.9280933	3489.0	96	NIST05.l	20846	3
Naphthalene, 1,2,3,4-tetrahydro-5-methyl					CAS #: 2809-64-5		
12.919	162839	8.98524191	2250.8	93	NIST05.l	20846	3
Naphthalene, 1-methyl-					CAS #: 90-12-0		
13.086	763425	42.1247877	10552	96	NIST05.l	18566	3
Naphthalene, 1-methyl-					CAS #: 90-12-0		
13.253	387906	21.4041430	5361.8	96	NIST05.l	18566	3

Data File: /var/chem/gcms/mk.i/K040406.b/h2hq41aa.d

Date : 04-APR-2006 20:24

Client ID: G-3070-R3-SPENT ACT

Instrument: mk.i

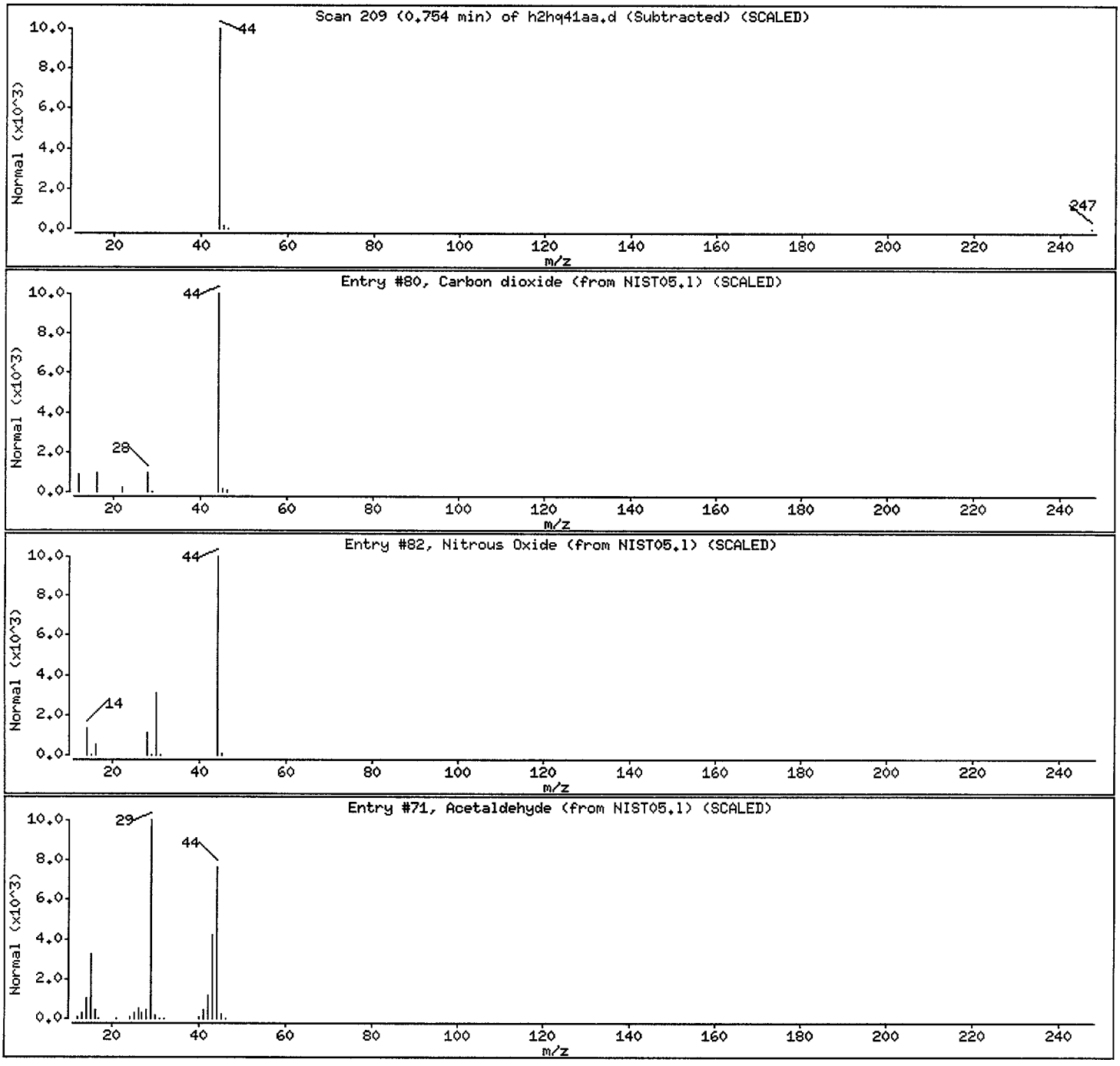
Sample Info: H2HQ41AA,5,0,,

Operator: 063605

Column phase: J&W-624

Column diameter: 0.18

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Carbon dioxide	124-38-9	NIST05.l	80	5	CO2	44
Nitrous Oxide	10024-97-2	NIST05.l	82	3	N2O	44
Acetaldehyde	75-07-0	NIST05.l	71	2	C2H4O	44



Data File: /var/chem/gcms/mk.i/K040406.b/h2hq41aa.d

Date : 04-APR-2006 20:24

Client ID: G-3070-R3-SPENT ACT

Instrument: mk.i

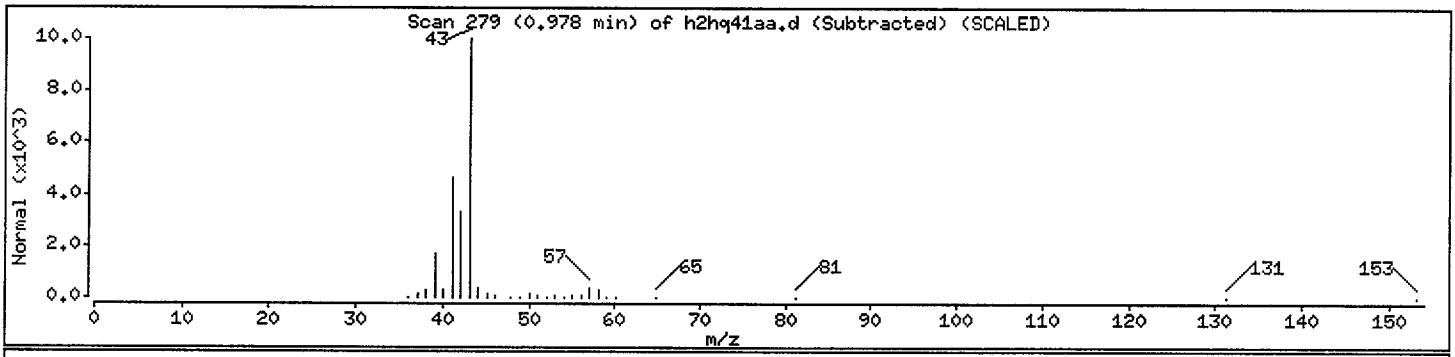
Sample Info: H2HQ41AA,5,0,,

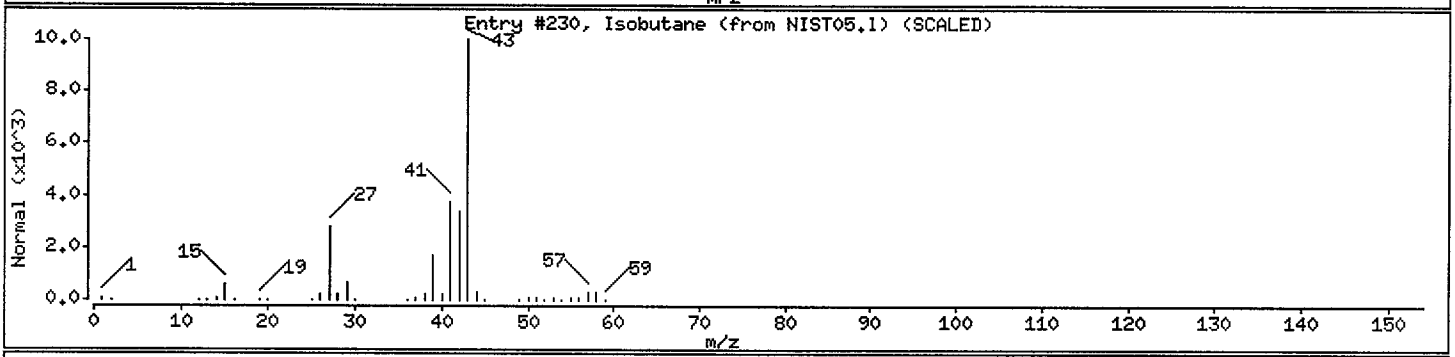
Operator: 063605

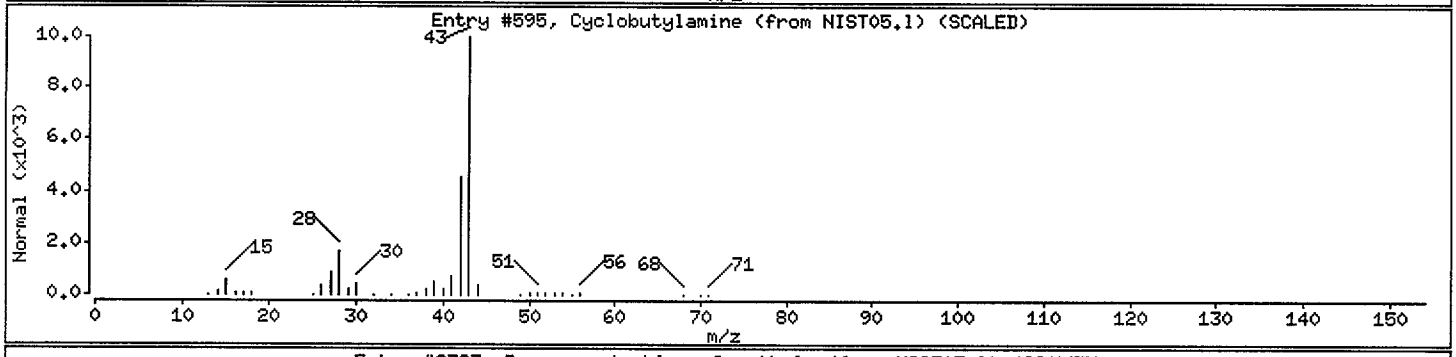
Column phase: J&W-624

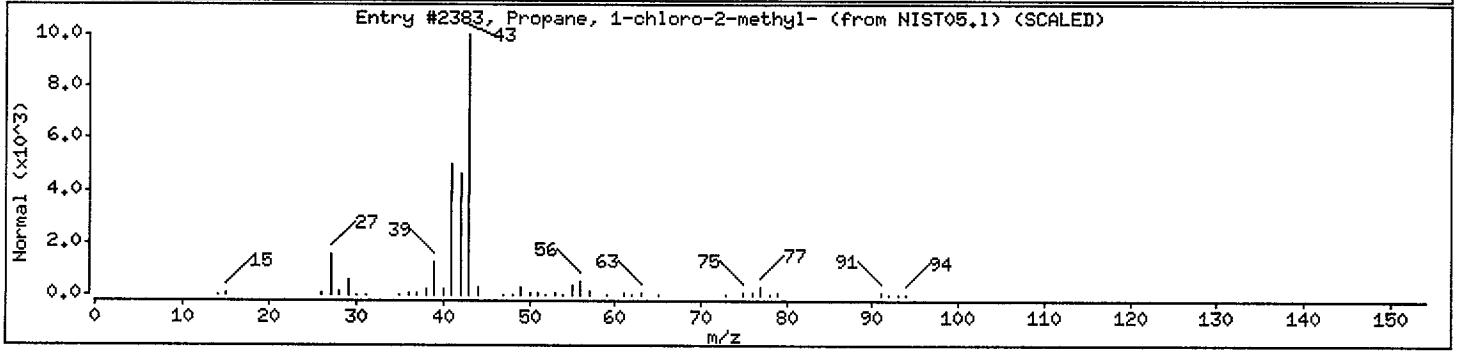
Column diameter: 0.18

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Isobutane	75-28-5	NIST05.l	230	86	C4H10	58
Cyclobutylamine	2516-34-9	NIST05.l	595	9	C4H9N	71
Propane, 1-chloro-2-methyl-	513-36-0	NIST05.l	2383	4	C4H9Cl	92









Data File: /var/chem/gcms/mk.i/K040406.b/h2hq41aa.d

Date : 04-APR-2006 20:24

Client ID: G-3070-R3-SPENT ACT

Instrument: mk.i

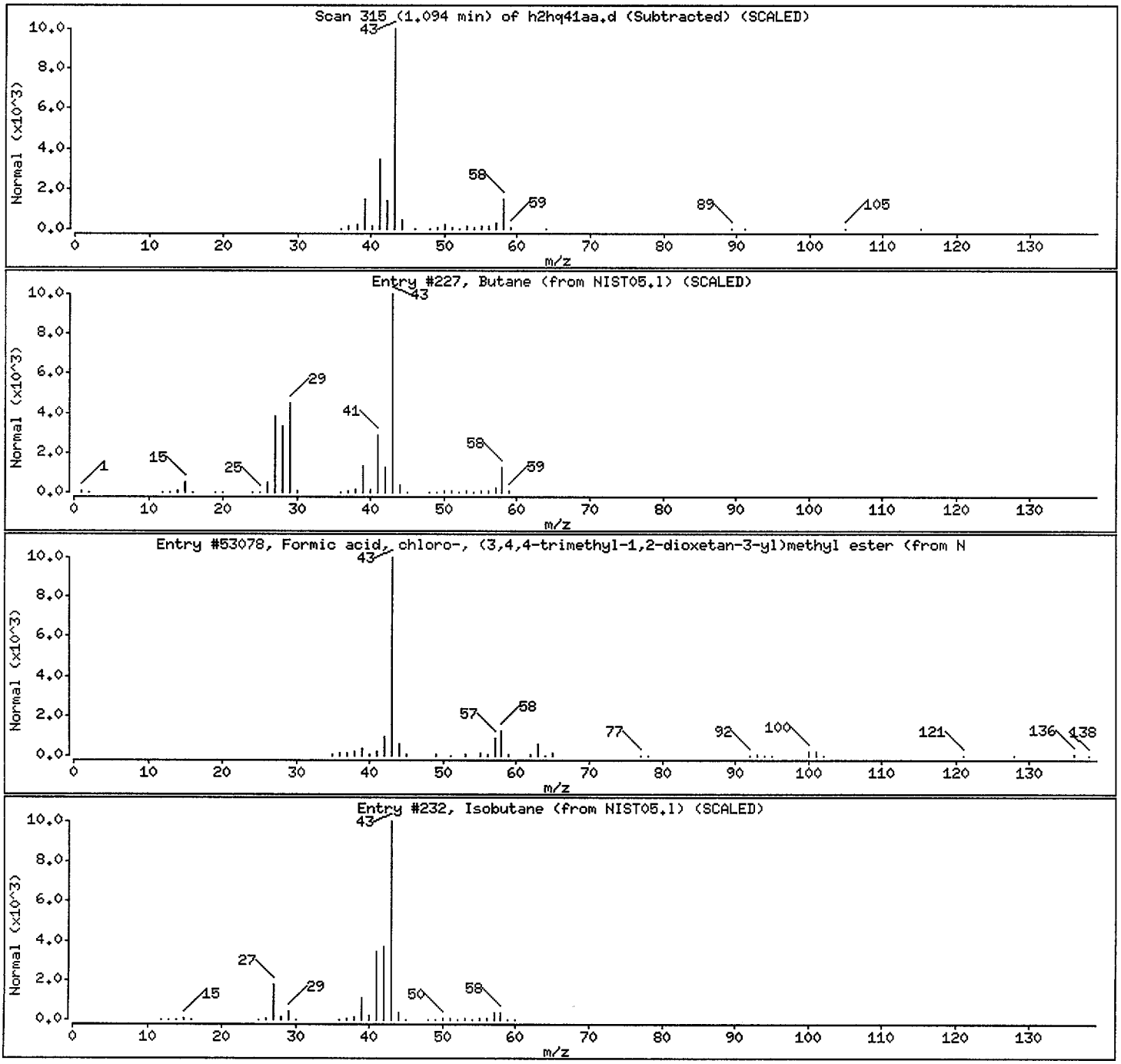
Sample Info: H2HQ41AA,5,0,,

Operator: 063605

Column phase: J&W-624

Column diameter: 0.18

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Butane	106-97-8	NIST05.l	227	72	C4H10	58
Formic acid, chloro-, (3,4,4-trimethyl-1	107323-92-2	NIST05.l	53078	39	C7H11ClO4	194
Isobutane	75-28-5	NIST05.l	232	9	C4H10	58



Data File: /var/chem/gcms/mk.i/K040406.b/h2hq41aa.d

Date : 04-APR-2006 20:24

Client ID: G-3070-R3-SPENT ACT

Instrument: mk.i

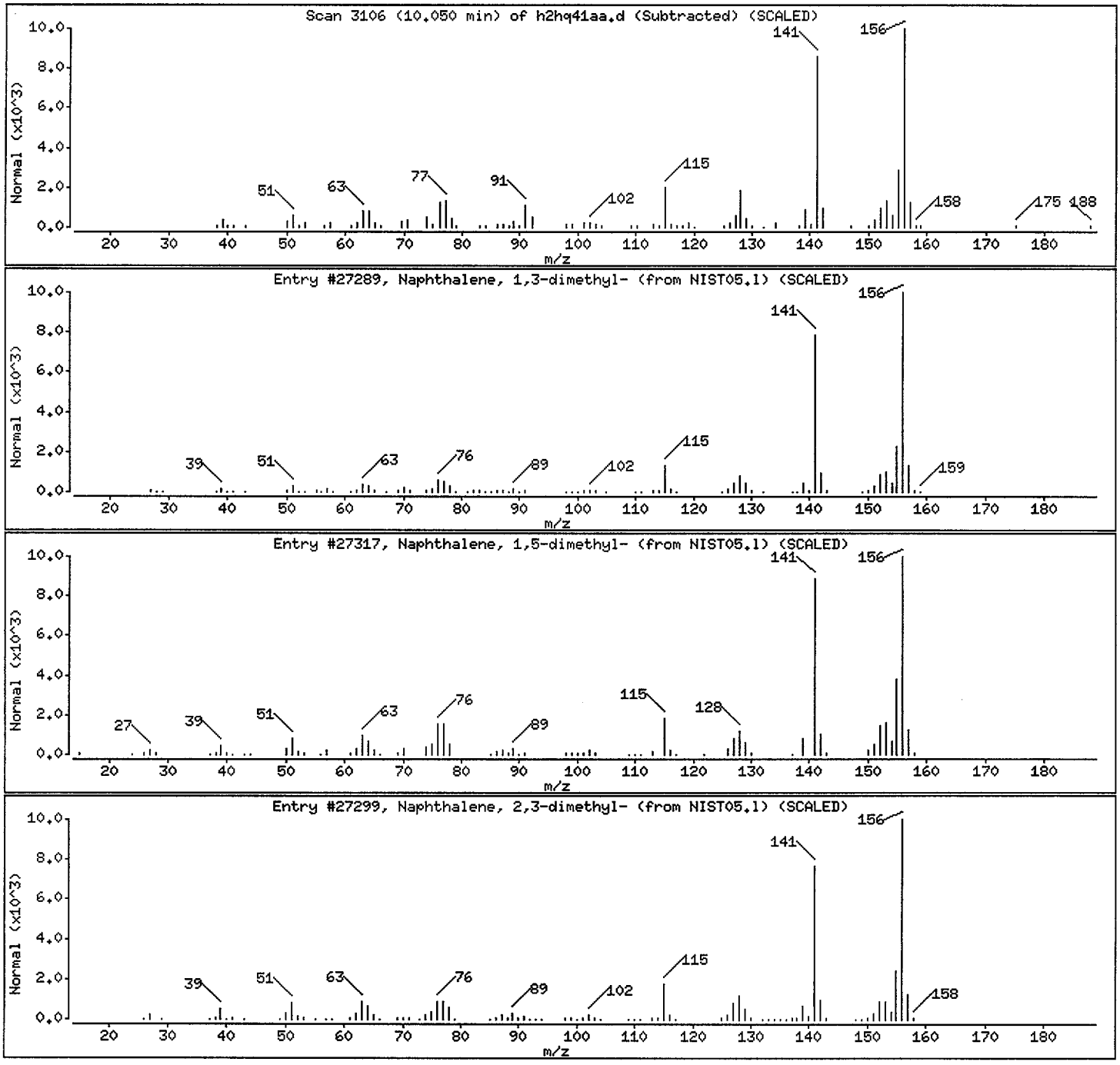
Sample Info: H2HQ41AA,5,0,,

Operator: 063605

Column phase: J&W-624

Column diameter: 0.18

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Naphthalene, 1,3-dimethyl-	575-41-7	NIST05.l	27289	97	C12H12	156
Naphthalene, 1,5-dimethyl-	571-61-9	NIST05.l	27317	97	C12H12	156
Naphthalene, 2,3-dimethyl-	581-40-8	NIST05.l	27299	96	C12H12	156



Data File: /var/chem/gcms/mk.i/K040406.b/h2hq41aa.d

Date : 04-APR-2006 20:24

Client ID: G-3070-R3-SPENT ACT

Instrument: mk.i

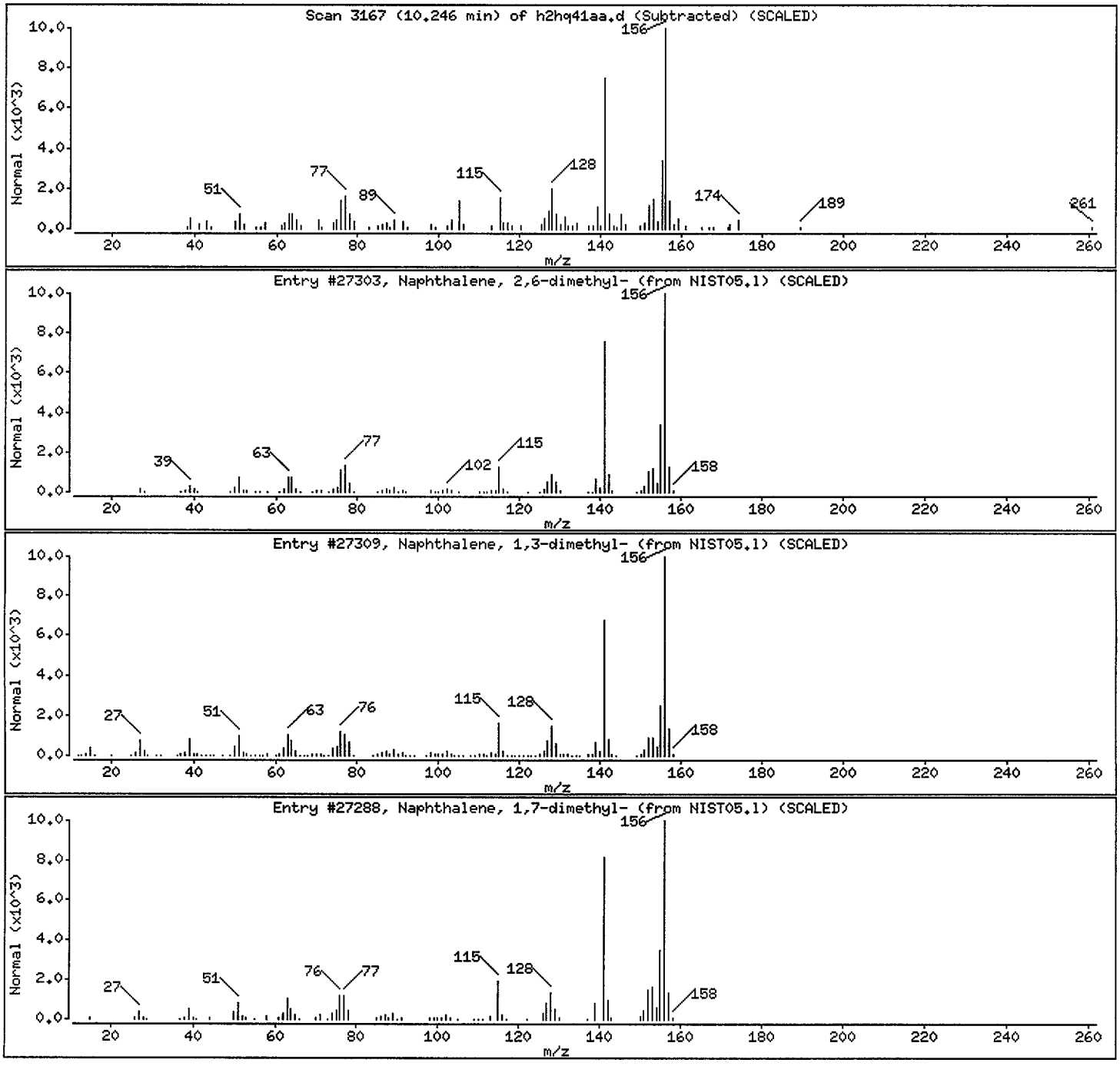
Sample Info: H2HQ41AA,5,0,,

Operator: 063605

Column phase: J&W-624

Column diameter: 0.18

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Naphthalene, 2,6-dimethyl-	581-42-0	NIST05.l	27303	97	C12H12	156
Naphthalene, 1,3-dimethyl-	575-41-7	NIST05.l	27309	96	C12H12	156
Naphthalene, 1,7-dimethyl-	575-37-1	NIST05.l	27288	96	C12H12	156



Data File: /var/chem/gcms/mk.i/K040406.b/h2hq41aa.d

Date : 04-APR-2006 20:24

Client ID: G-3070-R3-SPENT ACT

Instrument: mk.i

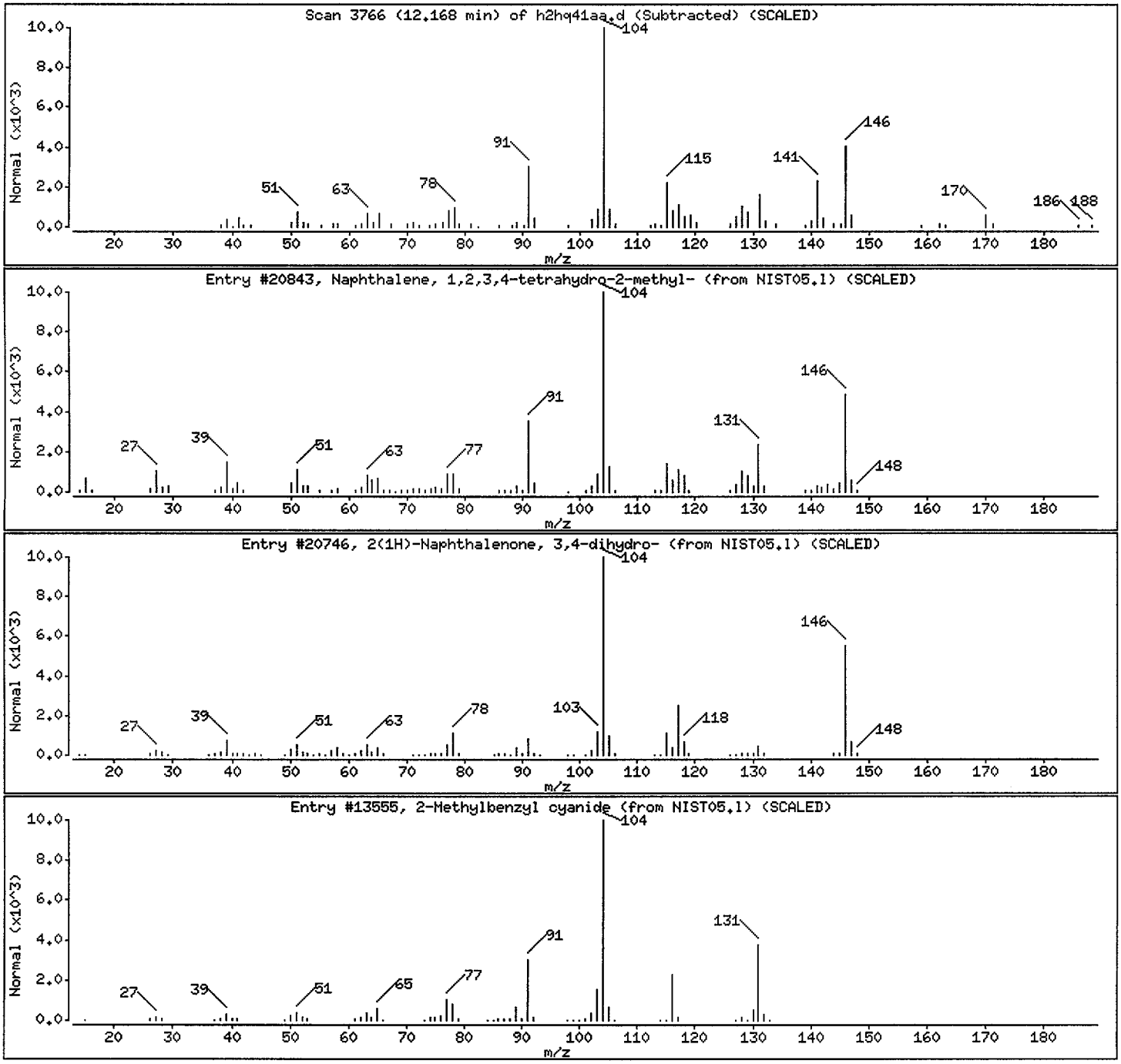
Sample Info: H2HQ41AA,5,0,,

Operator: 063605

Column phase: J&W-624

Column diameter: 0.18

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Naphthalene, 1,2,3,4-tetrahydro-2-methyl	3877-19-8	NIST05.l	20843	89	C11H14	146
2(1H)-Naphthalenone, 3,4-dihydro-	530-93-8	NIST05.l	20746	50	C10H10O	146
2-Methylbenzyl cyanide	22364-68-7	NIST05.l	13555	35	C9H9N	131



Data File: /var/chem/gcms/mk.i/K040406.b/h2hq41aa.d

Date : 04-APR-2006 20:24

Client ID: G-3070-R3-SPENT ACT

Instrument: mk.i

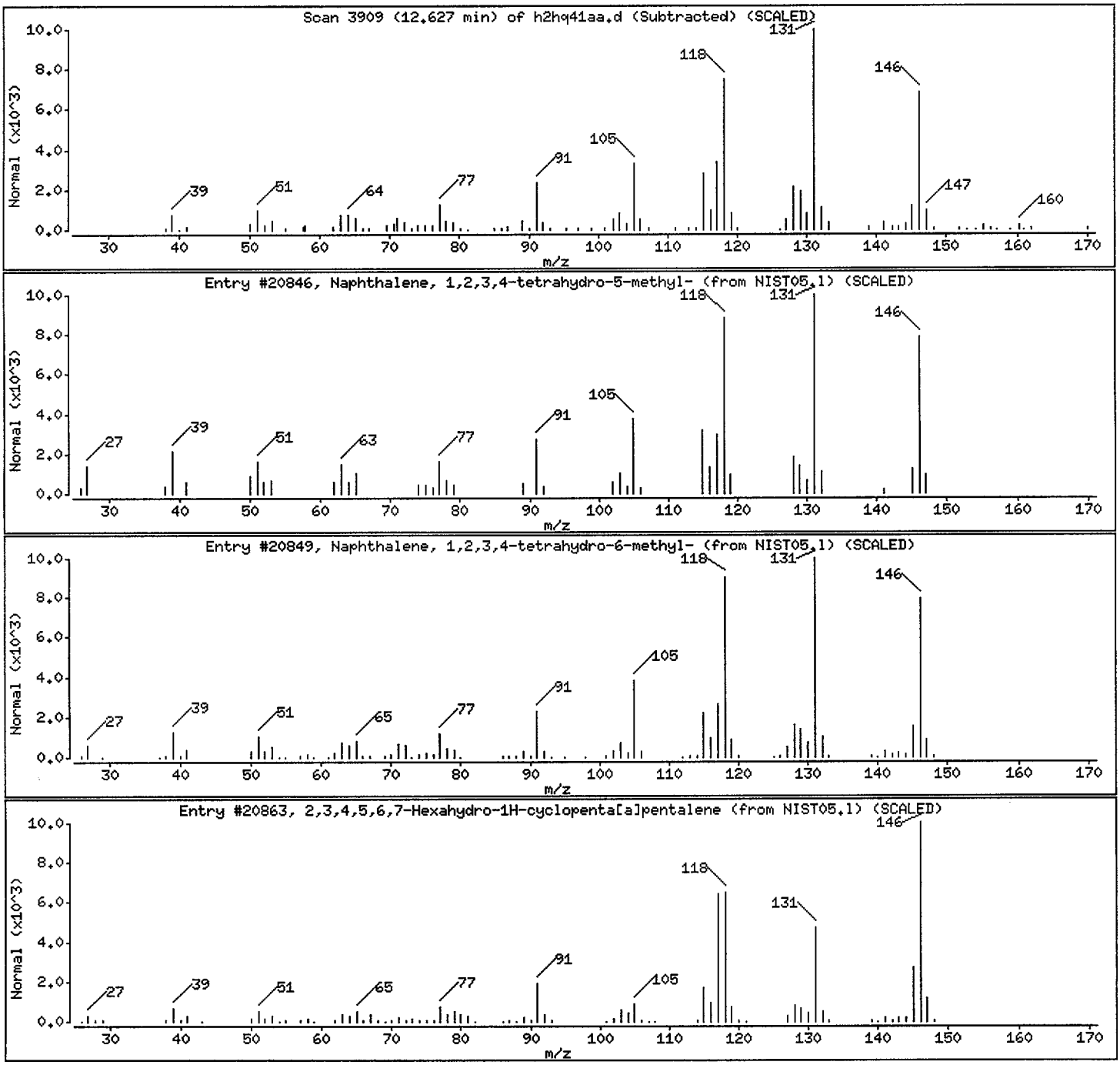
Sample Info: H2HQ41AA,5,0,,

Operator: 063605

Column phase: J&W-624

Column diameter: 0.18

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Naphthalene, 1,2,3,4-tetrahydro-5-methyl	2809-64-5	NIST05.l	20846	96	C11H14	146
Naphthalene, 1,2,3,4-tetrahydro-6-methyl	1680-51-9	NIST05.l	20849	95	C11H14	146
2,3,4,5,6,7-Hexahydro-1H-cyclopenta[a]pe	1000189-31-0	NIST05.l	20863	87	C11H14	146



Data File: /var/chem/gcms/mk.i/K040406.b/h2hq41aa.d

Date : 04-APR-2006 20:24

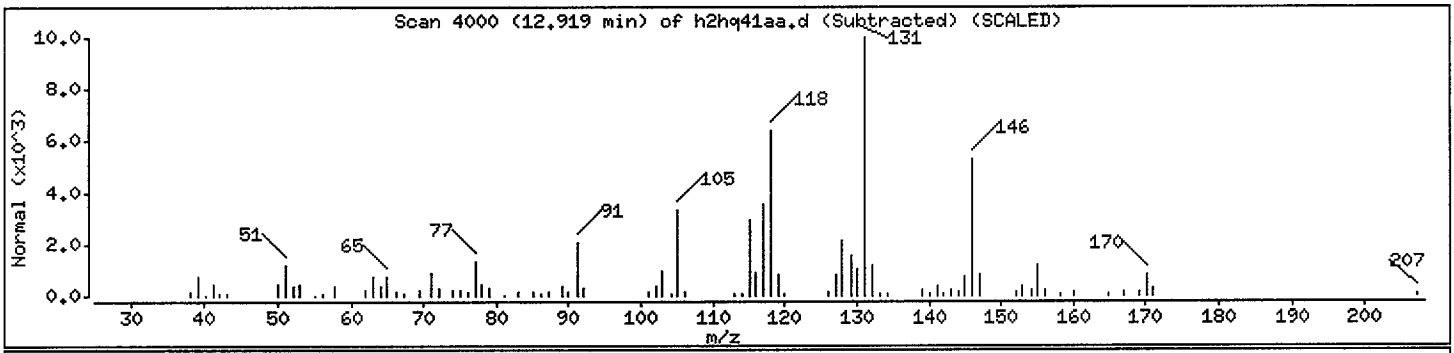
Client ID: G-3070-R3-SPENT ACT Instrument: mk.i

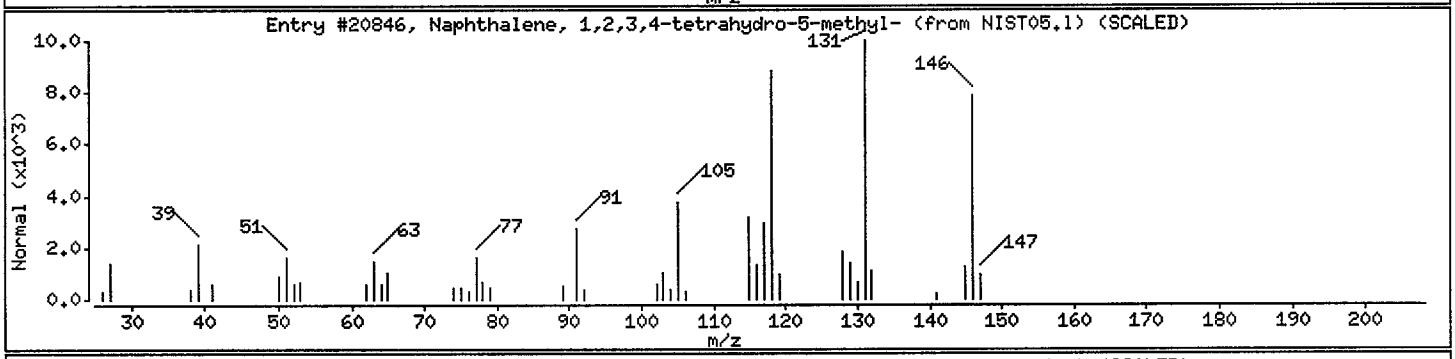
Sample Info: H2HQ41AA,5,0,,

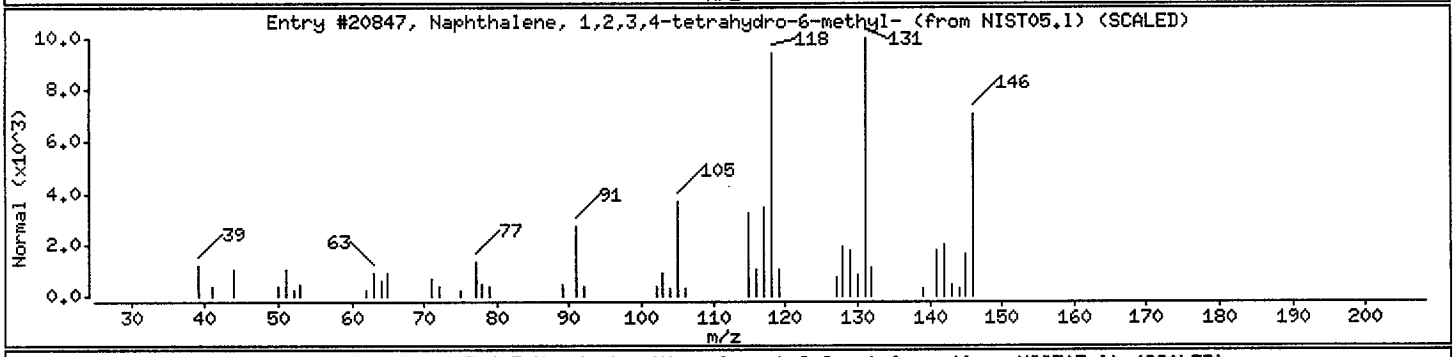
Operator: 063605

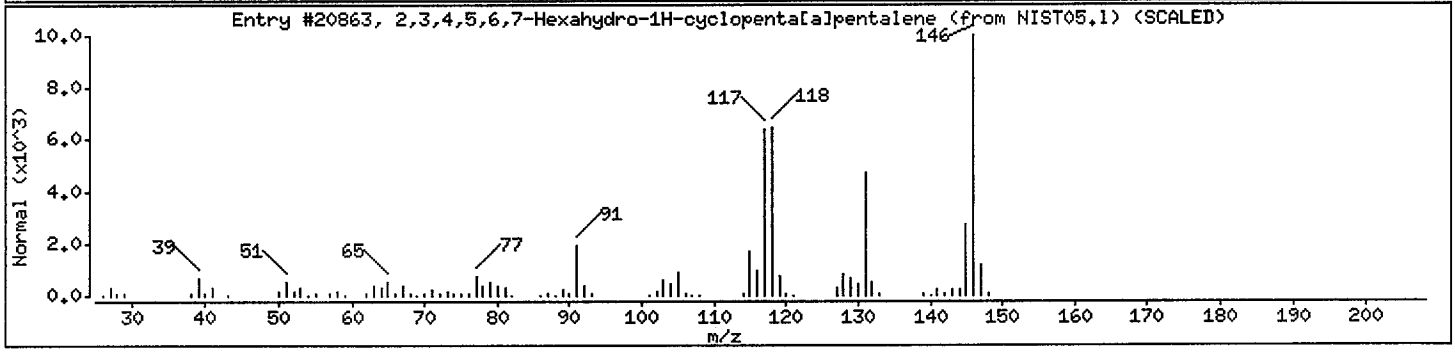
Column phase: J&W-624 Column diameter: 0.18

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Naphthalene, 1,2,3,4-tetrahydro-5-methyl	2809-64-5	NIST05.l	20846	93	C11H14	146
Naphthalene, 1,2,3,4-tetrahydro-6-methyl	1680-51-9	NIST05.l	20847	93	C11H14	146
2,3,4,5,6,7-Hexahydro-1H-cyclopenta[a]pe	1000189-31-0	NIST05.l	20863	87	C11H14	146









Data File: /var/chem/gcms/mk.i/K040406.b/h2hq41aa.d

Date : 04-APR-2006 20:24

Client ID: G-3070-R3-SPENT ACT

Instrument: mk.i

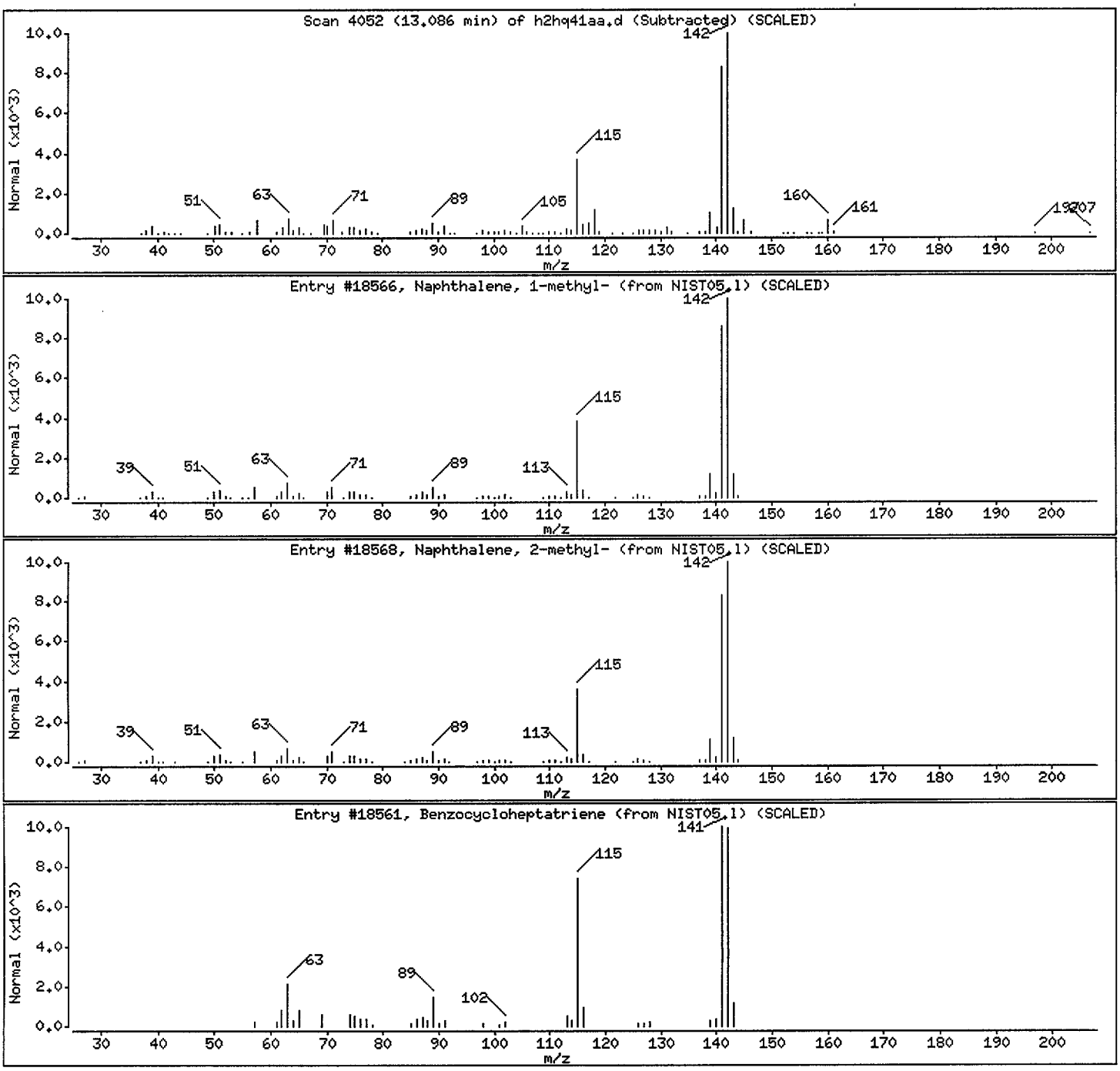
Sample Info: H2HQ41AA,5,0,,

Operator: 063605

Column phase: J&W-624

Column diameter: 0.18

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Naphthalene, 1-methyl-	90-12-0	NIST05.l	18566	96	C11H10	142
Naphthalene, 2-methyl-	91-57-6	NIST05.l	18568	96	C11H10	142
Benzocycloheptatriene	264-09-5	NIST05.l	18561	91	C11H10	142



Data File: /var/chem/gcms/mk.i/K040406.b/h2hq41aa.d

Date : 04-APR-2006 20:24

Client ID: G-3070-R3-SPENT ACT

Instrument: mk.i

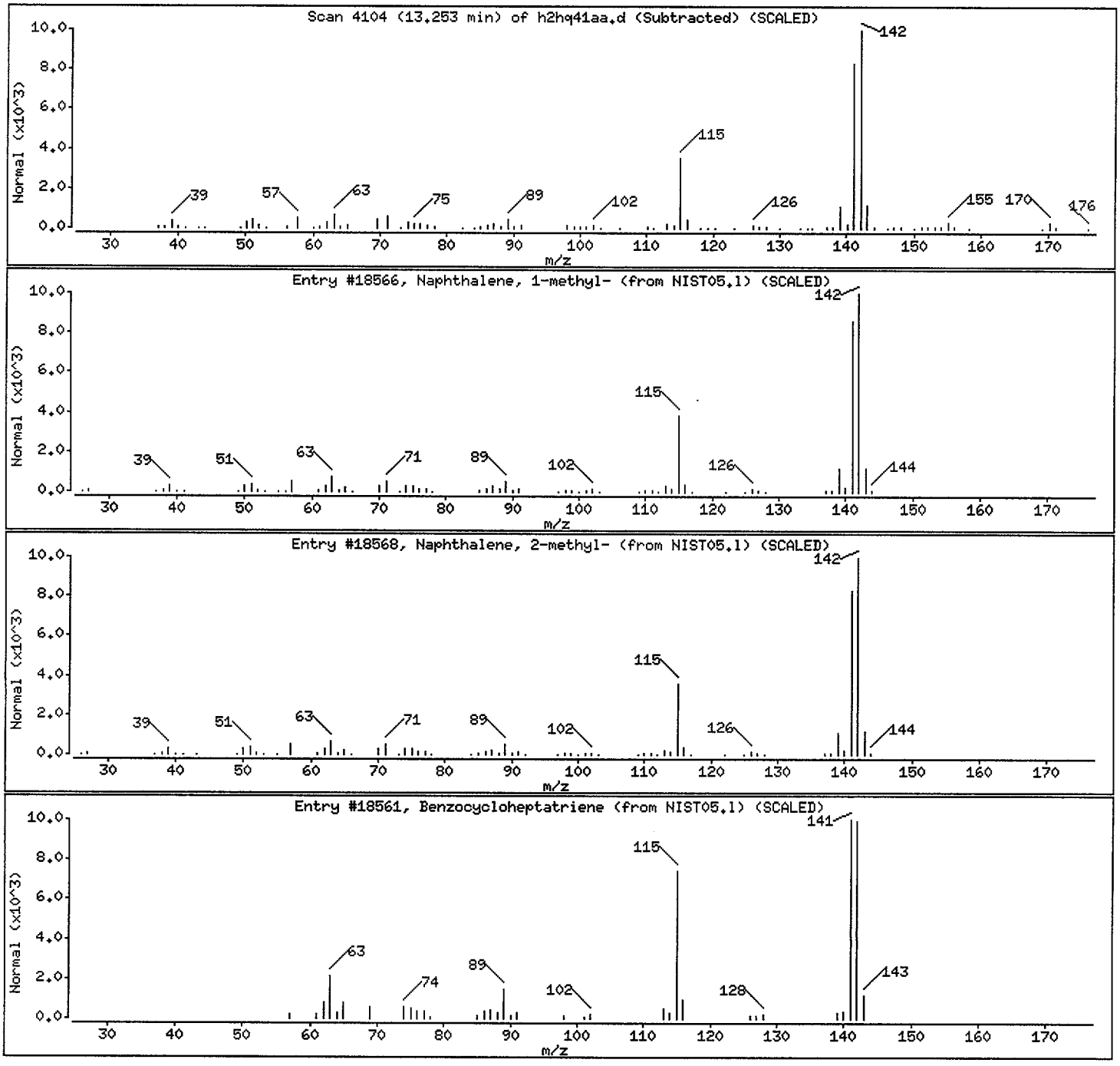
Sample Info: H2HQ41AA,5,0,,

Operator: 063605

Column phase: J&W-624

Column diameter: 0.18

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Naphthalene, 1-methyl-	90-12-0	NIST05.l	18566	96	C11H10	142
Naphthalene, 2-methyl-	91-57-6	NIST05.l	18568	96	C11H10	142
Benzocycloheptatriene	264-09-5	NIST05.l	18561	91	C11H10	142



STL Knoxville - ACS

Client Sample ID: G-3074-R3-SCRUBBER BLOWDOWN

GC/MS Volatiles

Lot-Sample #...: H6D030205-011 **Work Order #...:** H2HRA1AA **Matrix.....:** WATER
Date Sampled...: 03/30/06 **Date Received..:** 04/02/06
Prep Date.....: 04/05/06 **Analysis Date..:** 04/05/06
Prep Batch #...: 6095253
Dilution Factor: 1 **Method.....:** SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	**3.6 J**	**10**	**ug/L**	**1.4**
Acrylonitrile	ND	20	ug/L	2.7
Benzene	ND	1.0	ug/L	0.10
Bromobenzene	ND	1.0	ug/L	0.11
Bromochloromethane	ND	1.0	ug/L	0.24
Bromodichloromethane	ND	1.0	ug/L	0.10
Bromoform	**1.0**	**1.0**	**ug/L**	**0.14**
Bromomethane	ND	2.0	ug/L	0.38
2-Butanone	ND	5.0	ug/L	0.75
n-Butylbenzene	ND	1.0	ug/L	0.10
sec-Butylbenzene	ND	1.0	ug/L	0.10
tert-Butylbenzene	ND	1.0	ug/L	0.24
Carbon disulfide	ND	1.0	ug/L	0.10
Carbon tetrachloride	ND	1.0	ug/L	0.12
Chlorobenzene	ND	1.0	ug/L	0.10
Chlorodibromomethane	**0.89 J**	**1.0**	**ug/L**	**0.20**
Chloroethane	ND	2.0	ug/L	0.24
Chloroform	ND	1.0	ug/L	0.10
Chloromethane	ND	2.0	ug/L	0.12
2-Chlorotoluene	ND	1.0	ug/L	0.24
4-Chlorotoluene	ND	1.0	ug/L	0.21
1,2-Dibromo-3-chloro-propane	ND	2.0	ug/L	0.45
1,2-Dibromoethane	ND	1.0	ug/L	0.24
Dibromomethane	ND	1.0	ug/L	0.21
1,2-Dichlorobenzene	ND	1.0	ug/L	0.10
1,3-Dichlorobenzene	ND	1.0	ug/L	0.10
1,4-Dichlorobenzene	ND	1.0	ug/L	0.12
Dichlorodifluoromethane	ND	2.0	ug/L	0.15
1,1-Dichloroethane	ND	1.0	ug/L	0.10
1,2-Dichloroethane	ND	1.0	ug/L	0.10
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.12
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.10
1,1-Dichloroethene	ND	1.0	ug/L	0.10
1,2-Dichloropropane	ND	1.0	ug/L	0.10
1,3-Dichloropropane	ND	1.0	ug/L	0.17
2,2-Dichloropropane	ND	1.0	ug/L	0.11
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.10
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.11

(Continued on next page)

STL Knoxville - ACS

Client Sample ID: G-3074-R3-SCRUBBER BLOWDOWN

GC/MS Volatiles

Lot-Sample #...: H6D030205-011 **Work Order #...:** H2HRA1AA **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1-Dichloropropene	ND	1.0	ug/L	0.10
Ethylbenzene	ND	1.0	ug/L	0.10
Hexachlorobutadiene	ND	2.0	ug/L	0.12
2-Hexanone	ND	5.0	ug/L	0.76
Iodomethane	ND	2.0	ug/L	0.12
Isopropylbenzene	ND	1.0	ug/L	0.10
p-Isopropyltoluene	ND	1.0	ug/L	0.10
Methylene chloride	**0.84 J**	**2.0**	**ug/L**	**0.23**
4-Methyl-2-pentanone	ND	5.0	ug/L	0.40
Naphthalene	ND	1.0	ug/L	0.17
n-Propylbenzene	ND	1.0	ug/L	0.10
Styrene	ND	1.0	ug/L	0.10
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	0.12
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.15
Tetrachloroethene	ND	1.0	ug/L	0.10
Tetrahydrofuran	ND	4.0	ug/L	1.2
Toluene	ND	1.0	ug/L	0.10
1,2,3-Trichlorobenzene	ND	1.0	ug/L	0.23
1,2,4-Trichloro-benzene	ND	1.0	ug/L	0.15
1,1,1-Trichloroethane	ND	1.0	ug/L	0.10
1,1,2-Trichloroethane	ND	1.0	ug/L	0.25
Trichloroethene	ND	1.0	ug/L	0.10
Trichlorofluoromethane	ND	2.0	ug/L	0.12
1,2,3-Trichloropropane	ND	1.0	ug/L	0.36
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	1.0	ug/L	0.13
1,2,4-Trimethylbenzene	ND	1.0	ug/L	0.11
1,3,5-Trimethylbenzene	ND	1.0	ug/L	0.10
Vinyl acetate	ND	2.0	ug/L	0.24
Vinyl chloride	ND	1.0	ug/L	0.24
m-Xylene & p-Xylene	ND	1.0	ug/L	0.20
o-Xylene	ND	1.0	ug/L	0.14
Xylenes (total)	ND	1.0	ug/L	0.30

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	110	(79 - 120)
1,2-Dichloroethane-d4	115	(71 - 127)
Toluene-d8	100	(80 - 120)
Bromofluorobenzene	93	(69 - 126)

NOTE(S):

J Estimated result. Result is less than RL.

STL Knoxville - ACS

G-3074-R3-SCRUBBER BLOWDOWN

GC/MS Volatiles

Lot-Sample #: H6D030205-011 **Work Order #:** H2HRA1AA **Matrix:** WATER

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT	RETENTION TIME	UNITS
None				ug/L

Data File: /chem/gcms/mz.i/Z040506.b/h2hra1aa.d
Report Date: 05-Apr-2006 23:58

STL Knoxville

Volatile Organics by GC/MS

Data file : /chem/gcms/mz.i/Z040506.b/h2hra1aa.d
Lab Smp Id: H2HRA1AA Client Smp ID: G-3074-R3-SCRUBBER
Inj Date : 05-APR-2006 23:40
Operator : 063605 Inst ID: mz.i
Smp Info : H2HRA1AA,1,0,,
Misc Info : Z040506,8260B_LM,focus.sub
Comment : Volatile Organics by GC/MS
Method : /var/chem/gcms/mz.i/Z040506.b/8260B_LM.m
Meth Date : 05-Apr-2006 15:47 tillerm Quant Type: ISTD
Cal Date : 24-MAR-2006 13:51 Cal File: icvzc248.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: focus.sub
Target Version: 3.50
Processing Host: qmidhp01

Concentration Formula: Amt * DF * Uf*Vt/(Vo*1000) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Unit Correction factor
Vt	25000.00000	Sample Volume Purged
Vo	25.00000	Sample Volume Used

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)
* 1 Fluorobenzene	96	5.668	5.667	(1.000)	887282	10.0000	
* 2 Chlorobenzene-d5	119	8.929	8.933	(1.000)	170120	10.0000	
* 3 1,4 Dichlorobenzene-d4	152	11.484	11.488	(1.000)	212200	10.0000	
$ 5 1,2-Dichloroethane-d4	65	5.236	5.229	(0.924)	141684	11.5242	11.524
$ 4 Dibromofluoromethane	113	4.822	4.821	(0.851)	156284	10.9924	10.992
$ 6 Toluene-d8	98	7.456	7.455	(0.835)	745960	9.97967	9.9797
$ 7 4-Bromofluorobenzene	95	10.121	10.126	(0.881)	198829	9.29088	9.2909
22 Acetone	43	2.121	2.126	(0.374)	2042	3.62885	3.6288
23 *Iodomethane	142	2.194	2.181	(0.387)	605	~~0.54038~~	~~0.54038~~
27 Methylene Chloride	84	2.511	2.503	(0.443)	12436	0.83806	0.83806
39 *THF	42	4.348	4.529	(0.767)	1222	~~0.58082~~	~~0.58082~~
45 1,2-Dichloroethane	62	5.662	5.326	(0.999)	14148	~~0.76360~~	0.76360
55 trans-1,3-Dichloropropene	75	7.736	7.784	(0.866)	130	~~0.63370~~	~~0.63370~~
61 Chlorodibromomethane	129	8.351	8.349	(0.935)	1071	0.89067	0.89067

4/7/06

Data File: /chem/gcms/mz.i/Z040506.b/h2hra1aa.d
Report Date: 05-Apr-2006 23:58

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
69 Bromoform (spcc)	173	9.780	9.779	(1.095)	673	1.04903	1.0490

Data File: /chem/gcms/mz.i/Z040506.b/h2hra1aa.d
Report Date: 05-Apr-2006 23:58

STL Knoxville

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: mz.i
Lab File ID: h2hra1aa.d
Lab Smp Id: H2HRA1AA
Analysis Type: VOA
Quant Type: ISTD
Operator: 063605
Calibration Date: 05-APR-2006
Calibration Time: 14:42
Client Smp ID: G-3074-R3-SCRUBBER
Level: LOW
Sample Type: WATER
Method File: /var/chem/gcms/mz.i/Z040506.b/8260B_LM.m
Misc Info: Z040506,8260B_LM,focus.sub

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	1078707	539354	2157414	887282	-17.75
2 Chlorobenzene-d5	188899	94450	377798	170120	-9.94
3 1,4 Dichlorobenze	220143	110072	440286	212200	-3.61

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	5.67	5.17	6.17	5.67	0.02
2 Chlorobenzene-d5	8.93	8.43	9.43	8.93	-0.05
3 1,4 Dichlorobenze	11.49	10.99	11.99	11.48	-0.04

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

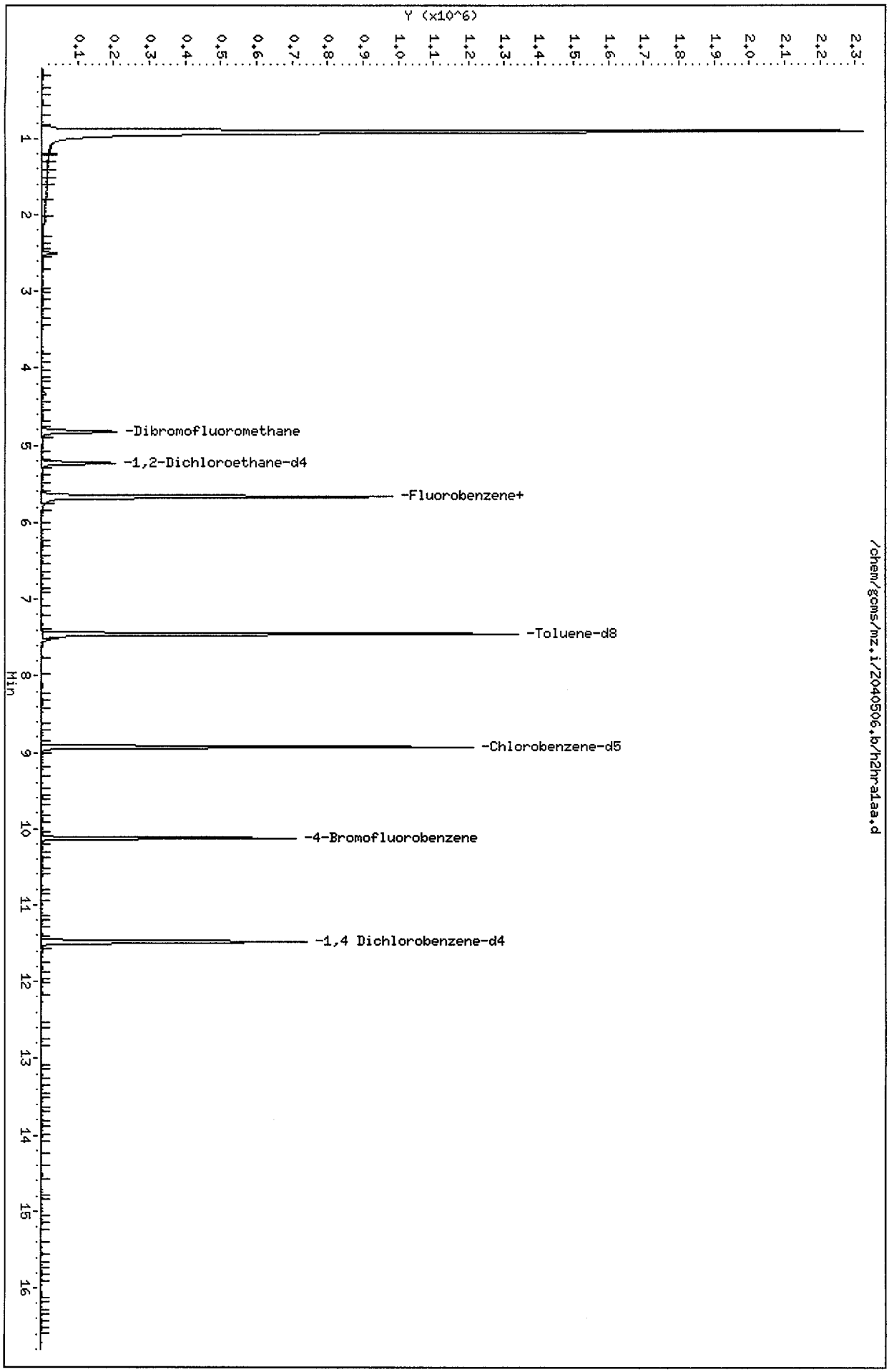
Data File: /chem/gcms/mz.i/Z040506.b/h2hra1aa.d
Report Date: 05-Apr-2006 23:58

STL Knoxville

RECOVERY REPORT

Client Name: STL Knoxville - ACS
Client SDG: H6D030205
Sample Matrix: LIQUID
Fraction: VOA
Lab Smp Id: H2HRA1AA
Client Smp ID: G-3074-R3-SCRUBBER
Level: LOW
Operator: 063605
Data Type: MS DATA
SampleType: SAMPLE
SpikeList File: allcmpds.spk
Quant Type: ISTD
Sublist File: focus.sub
Method File: /var/chem/gcms/mz.i/Z040506.b/8260B_LM.m
Misc Info: Z040506,8260B_LM,focus.sub

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
$ 5 1,2-Dichloroethane	10.000	11.524	115.24	71-127
$ 4 Dibromofluorometha	10.000	10.992	109.92	79-120
$ 6 Toluene-d8	10.000	9.9797	99.80	80-120
$ 7 4-Bromofluorobenze	10.000	9.2909	92.91	69-126


Data File: /chem/gcms/mz.i/Z040506.b/h2hra1aa.d
Date : 05-APR-2006 23:40
Client ID: G-3074-R3-SCRUBBER
Sample Info: H2HRA1AA,1.0,,
Purge Volume: 25.0
Column phase: J+W 624
Instrument: mz.i
Operator: 063005
Column diameter: 0.18
Y (x10^6)
-Dibromofluoromethane
-1,2-Dichloroethane-d4
-Fluorobenzene+
-Toluene-d8
-Chlorobenzene-d5
-4-Bromofluorobenzene
-1,4 Dichlorobenzene-d4
/chem/gcms/mz.i/Z040506.b/h2hra1aa.d
Min

Data File: /chem/gcms/mz.i/Z040506.b/h2hra1aa.d

Date : 05-APR-2006 23:40

Client ID: G-3074-R3-SCRUBBER

Instrument: mz.i

Sample Info: H2HRA1AA,1,0,,

Purge Volume: 25.0

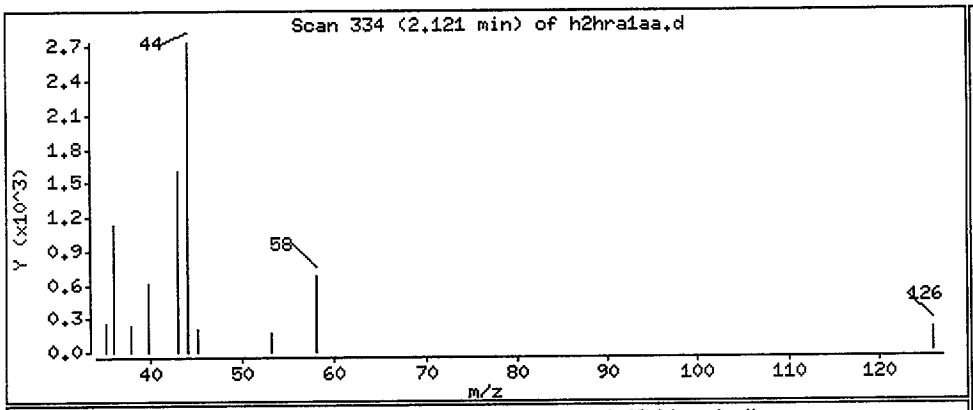
Operator: 063605

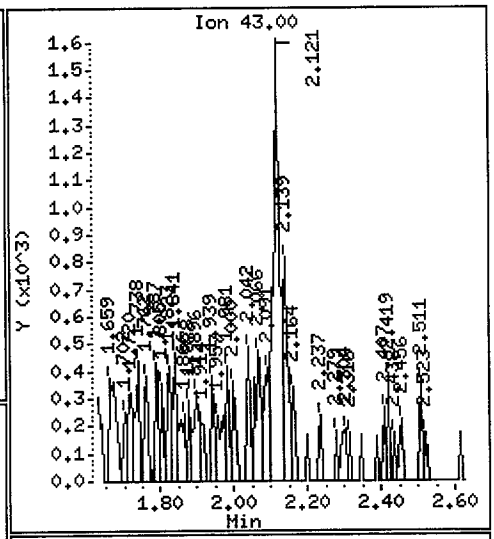
Column phase: J+W 624

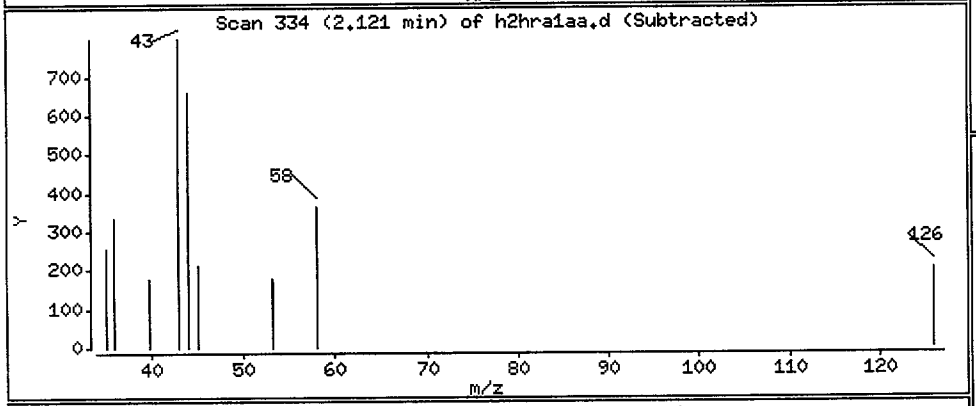
Column diameter: 0.18

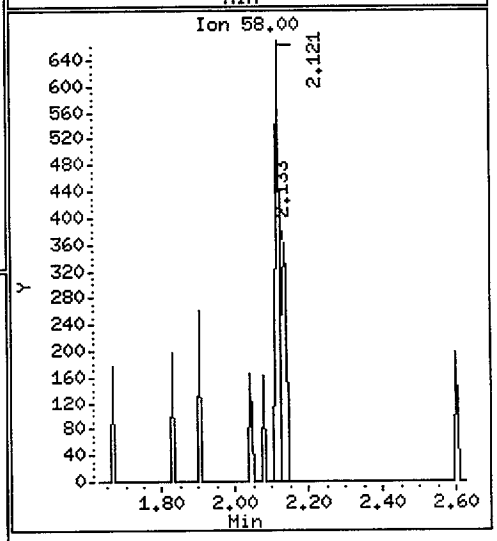
22 Acetone

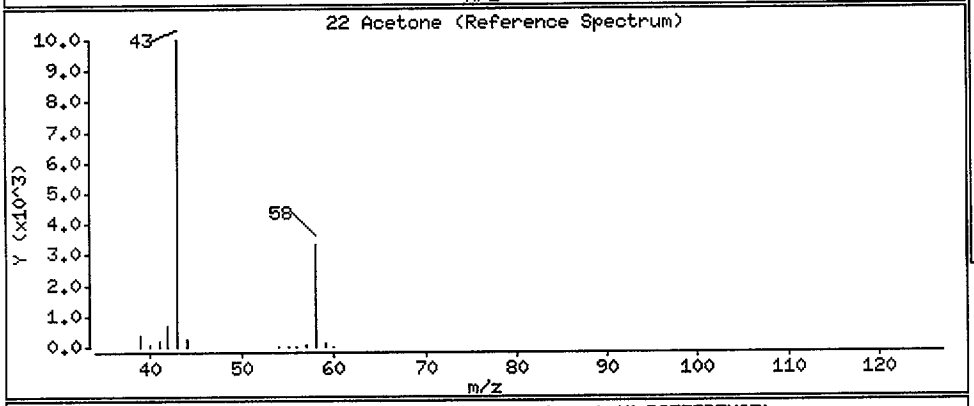
Concentration: 3.6288 ug/L

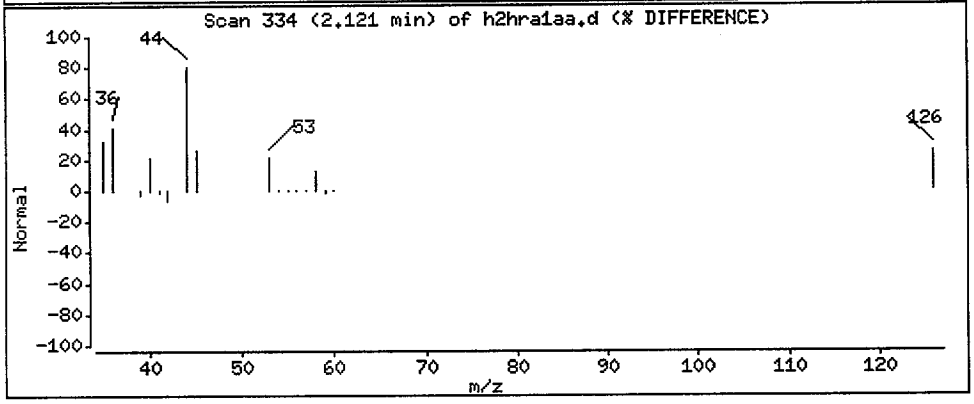












Data File: /chem/gcms/mz.i/Z040506.b/h2hra1aa.d

Date : 05-APR-2006 23:40

Client ID: G-3074-R3-SCRUBBER

Instrument: mz.i

Sample Info: H2HRA1AA,1,0,,

Purge Volume: 25.0

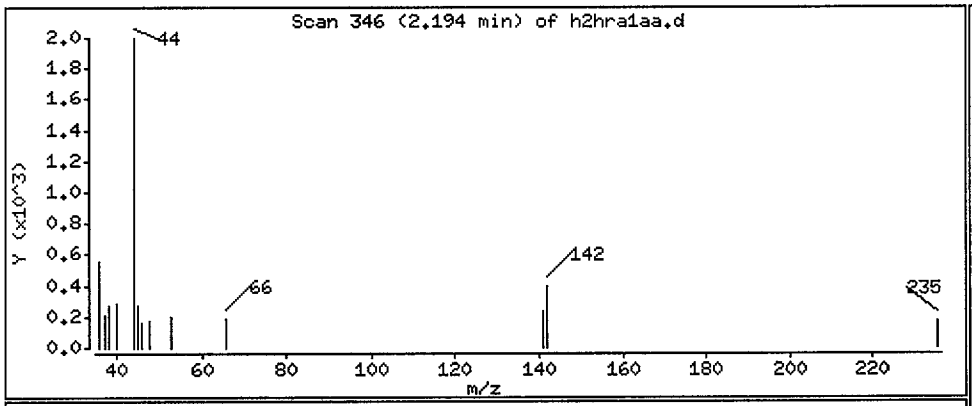
Operator: 063605

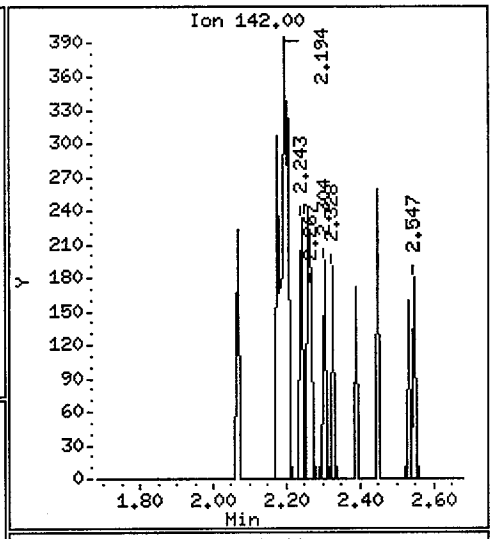
Column phase: J+W 624

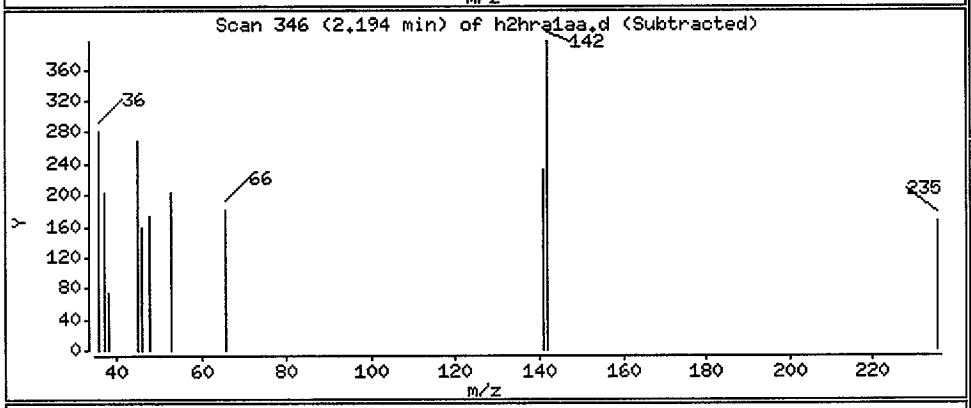
Column diameter: 0.18

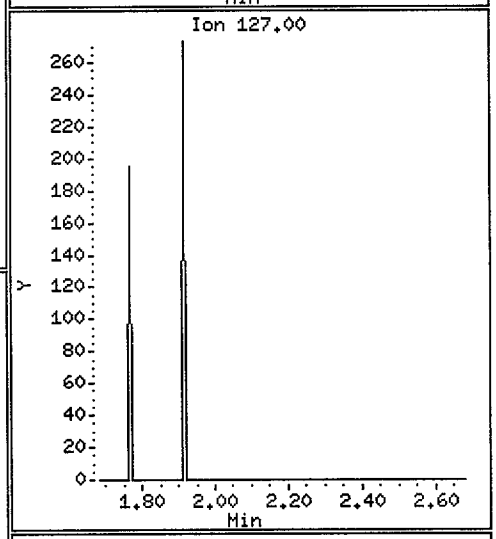
23 *Iodomethane

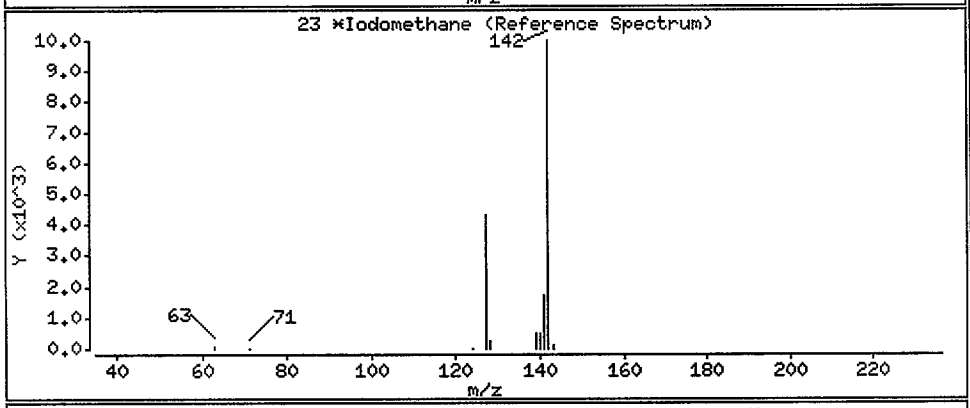
Concentration: 0.54838 ug/L

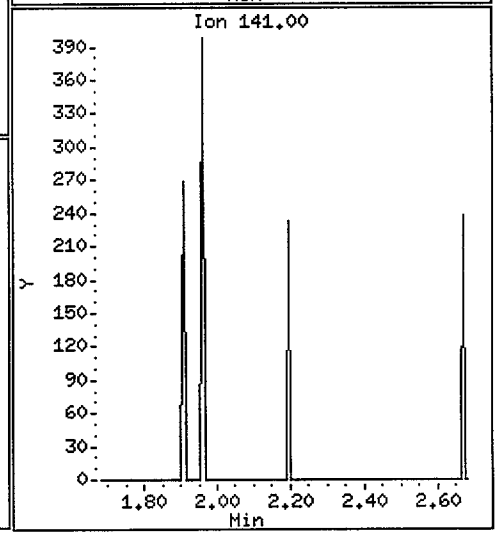


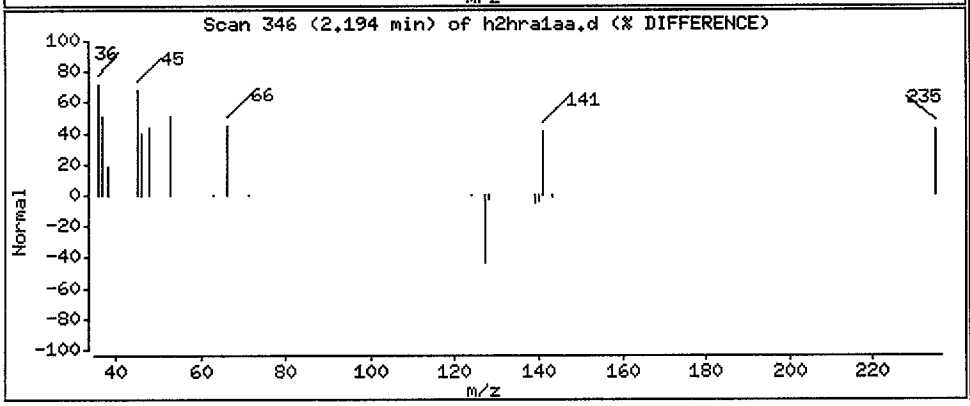












Data File: /chem/gcms/mz.i/Z040506.b/h2hra1aa.d

Date : 05-APR-2006 23:40

Client ID: G-3074-R3-SCRUBBER

Instrument: mz.i

Sample Info: H2HRA1AA,1,0,,

Purge Volume: 25.0

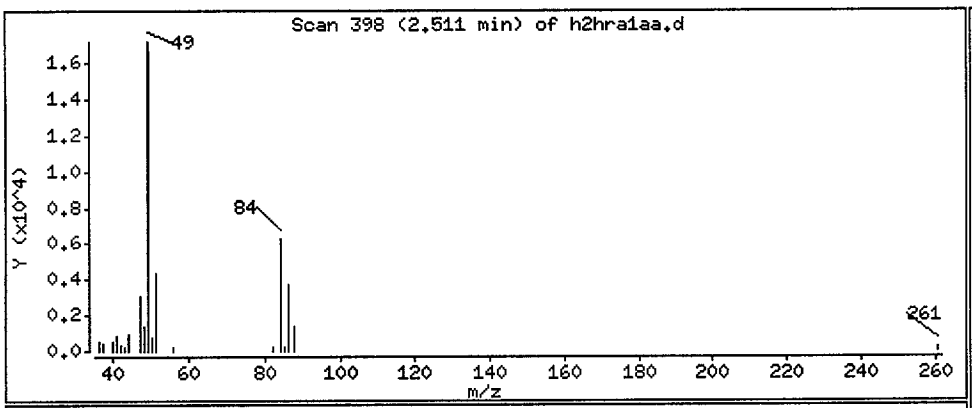
Operator: 063605

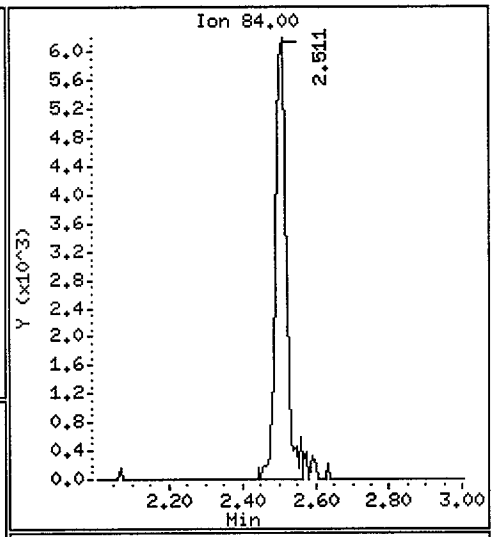
Column phase: J+W 624

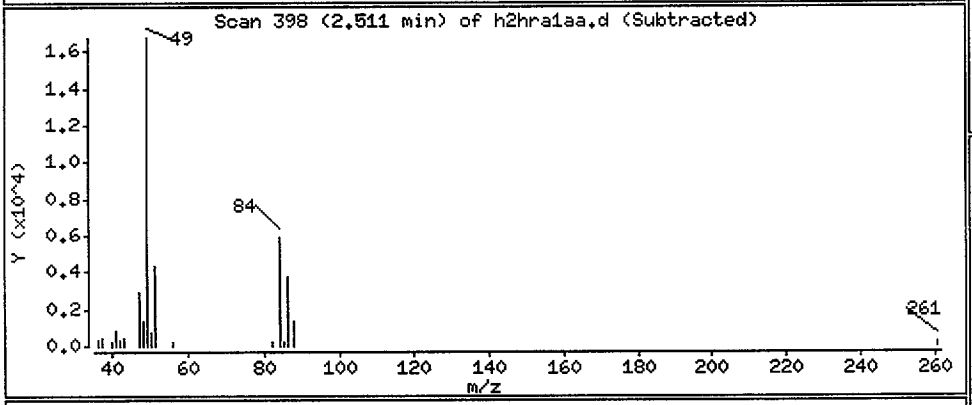
Column diameter: 0.18

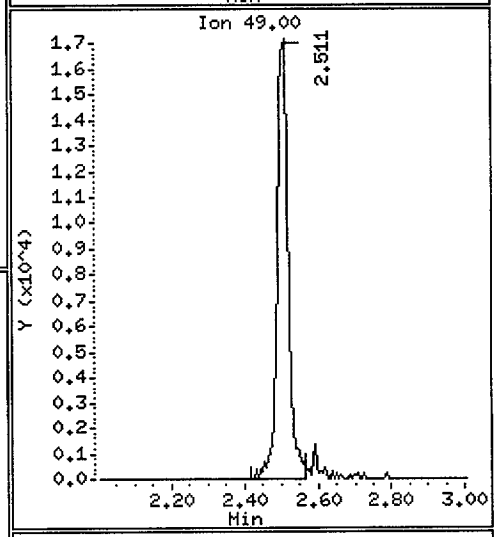
27 Methylene Chloride

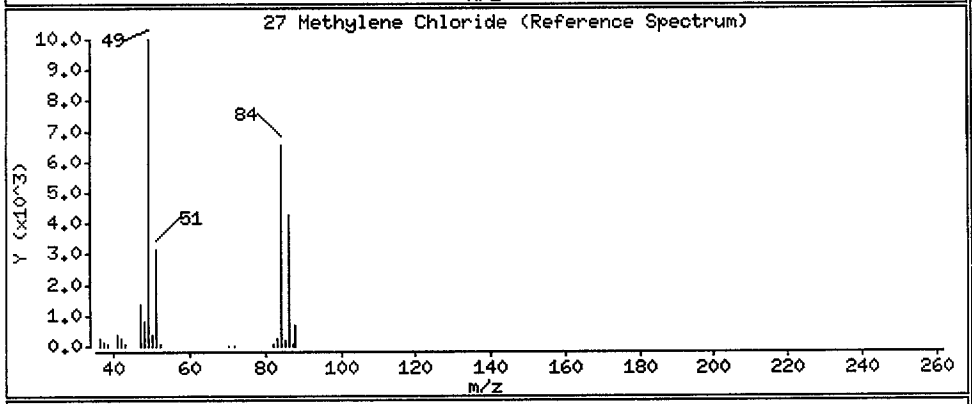
Concentration: 0.83806 ug/L

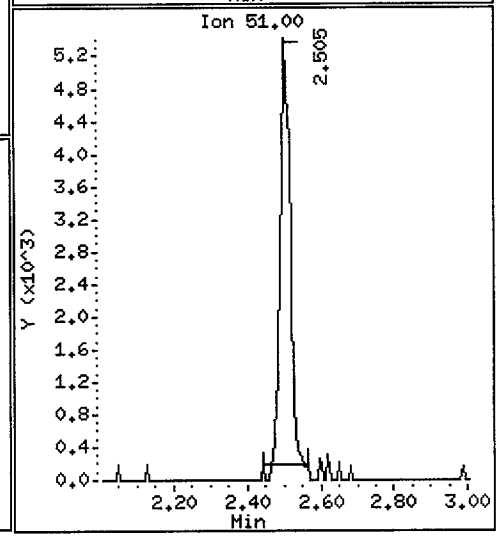


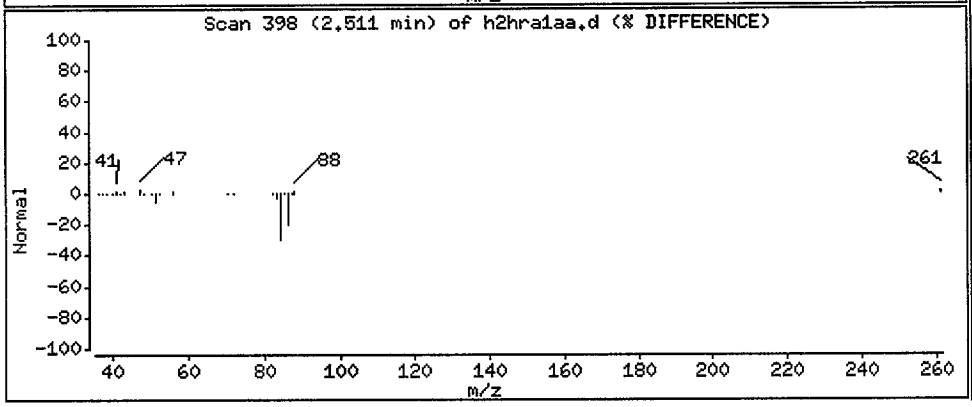












Data File: /chem/gcms/mz.i/Z040506.b/h2hra1aa.d

Date : 05-APR-2006 23:40

Client ID: G-3074-R3-SCRUBBER

Instrument: mz.i

Sample Info: H2HRA1AA,1,0,,

Purge Volume: 25.0

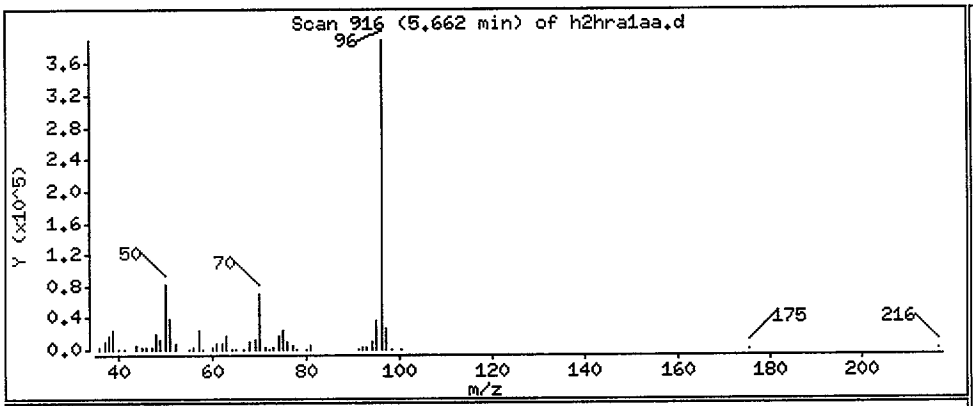
Operator: 063605

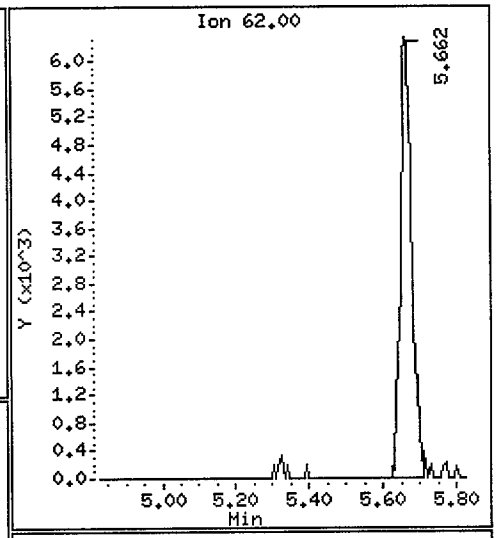
Column phase: J+W 624

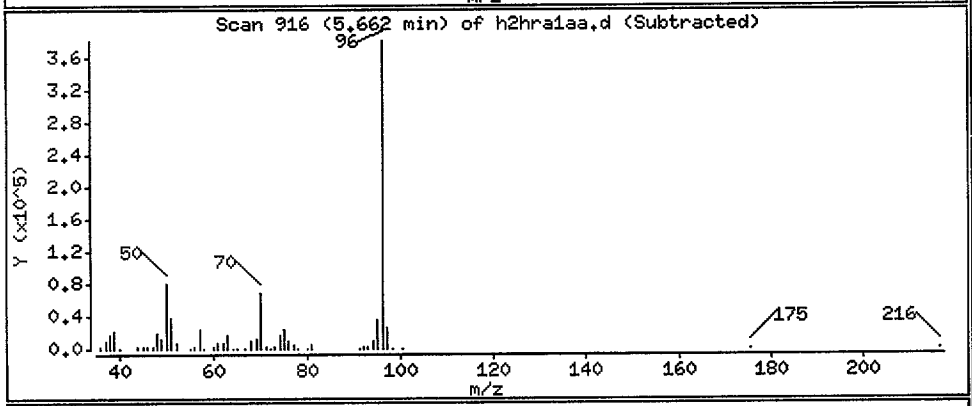
Column diameter: 0.18

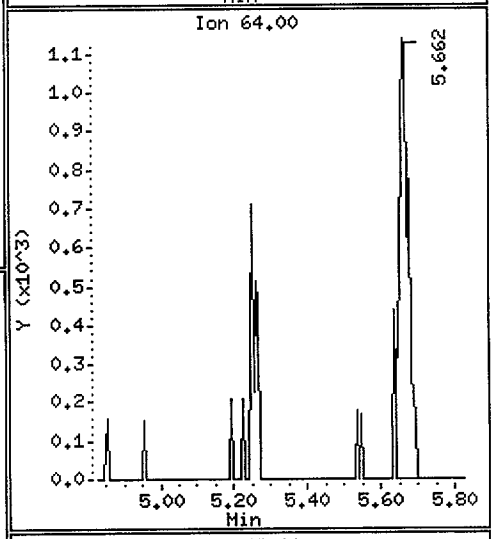
45 1,2-Dichloroethane

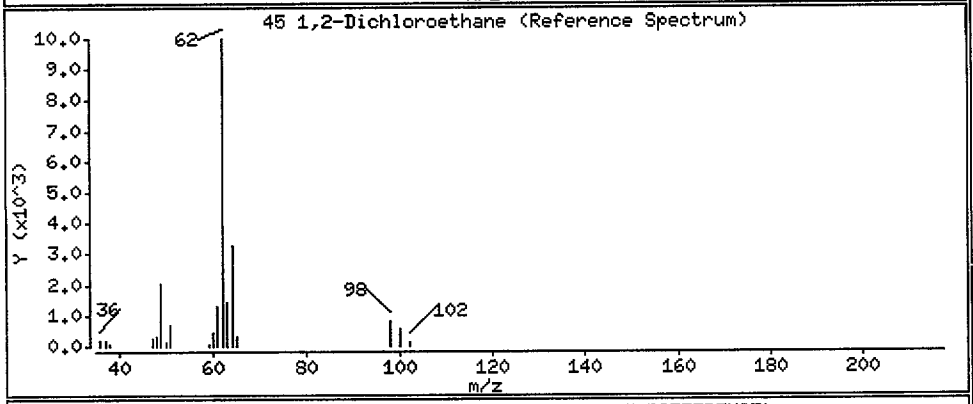
Concentration: 0.76360 ug/L

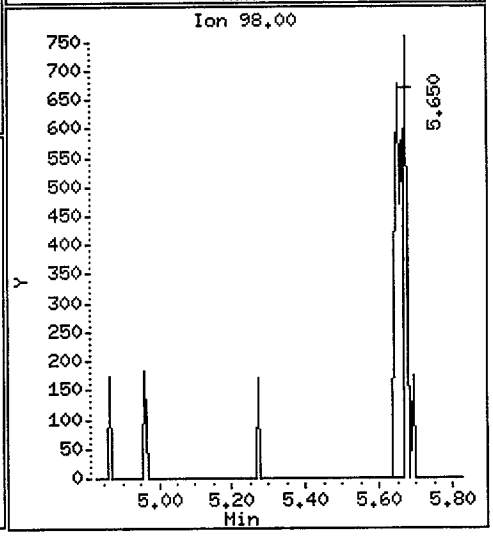


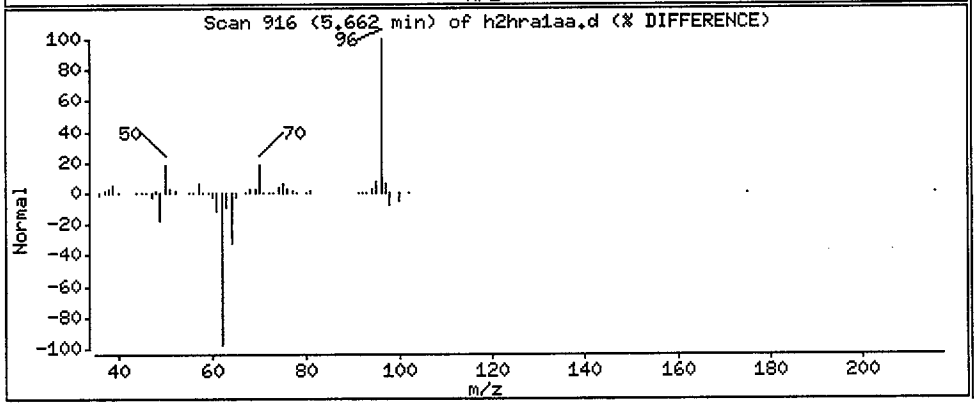












Data File: /chem/gcms/mz.i/Z040506.b/h2hra1aa.d

Date : 05-APR-2006 23:40

Client ID: G-3074-R3-SCRUBBER

Instrument: mz.i

Sample Info: H2HRA1AA,1,0,,

Purge Volume: 25.0

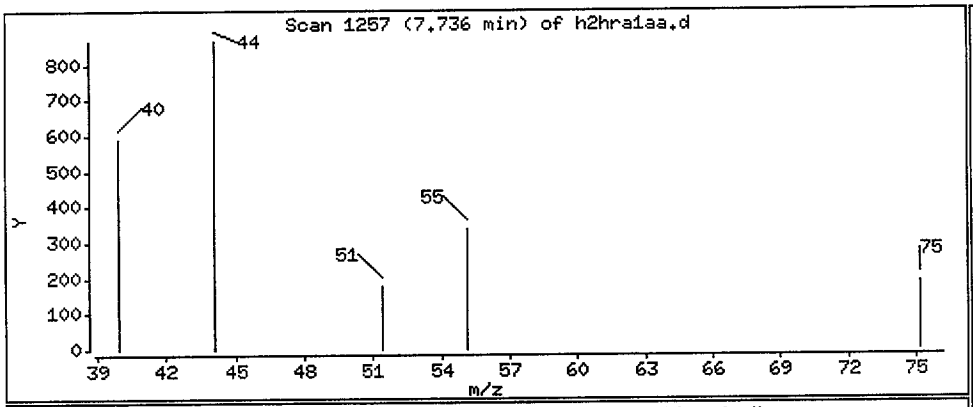
Operator: 063605

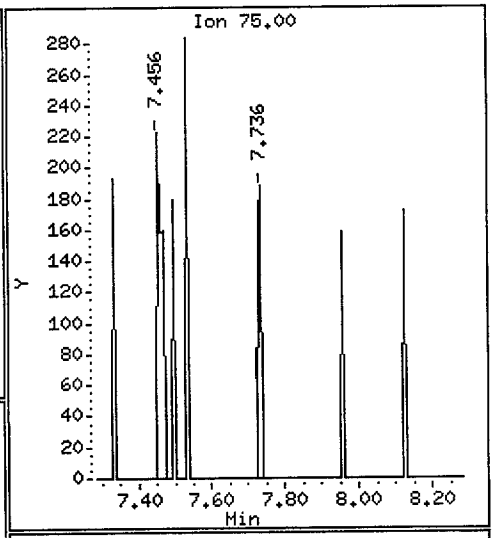
Column phase: J+W 624

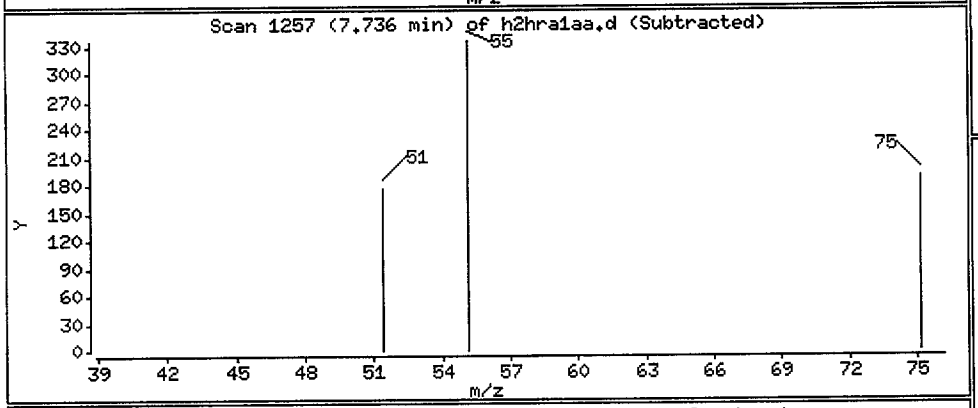
Column diameter: 0.18

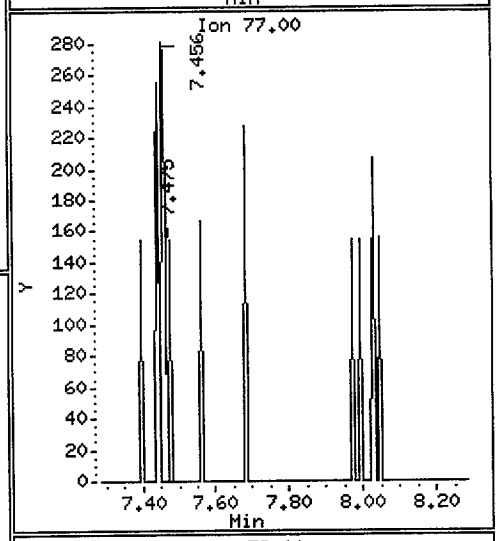
55 trans-1,3-Dichloropropene

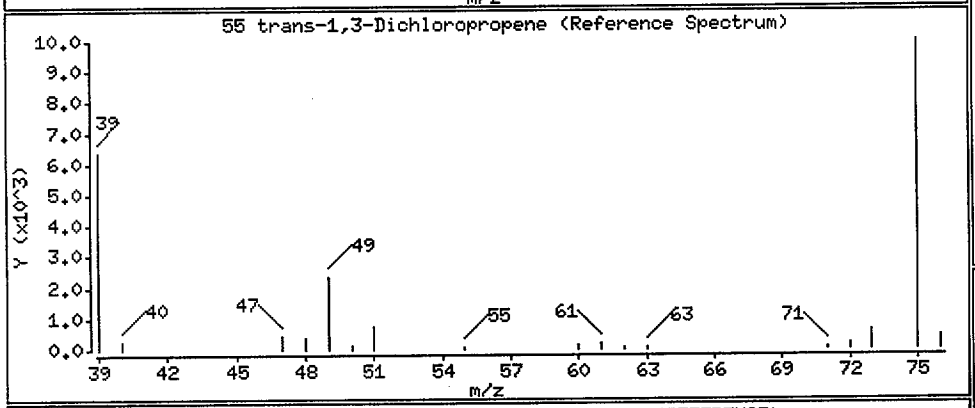
Concentration: 0.63370 ug/L

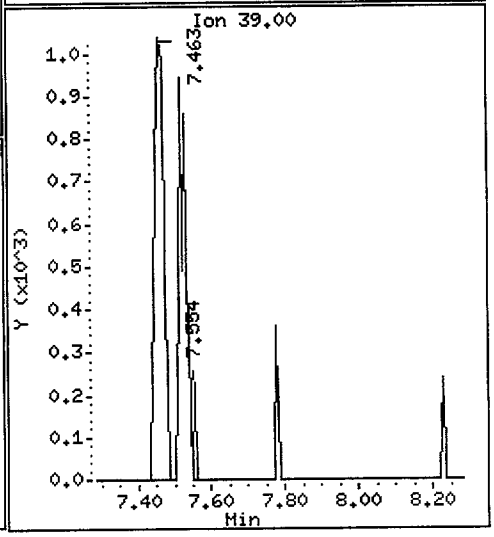


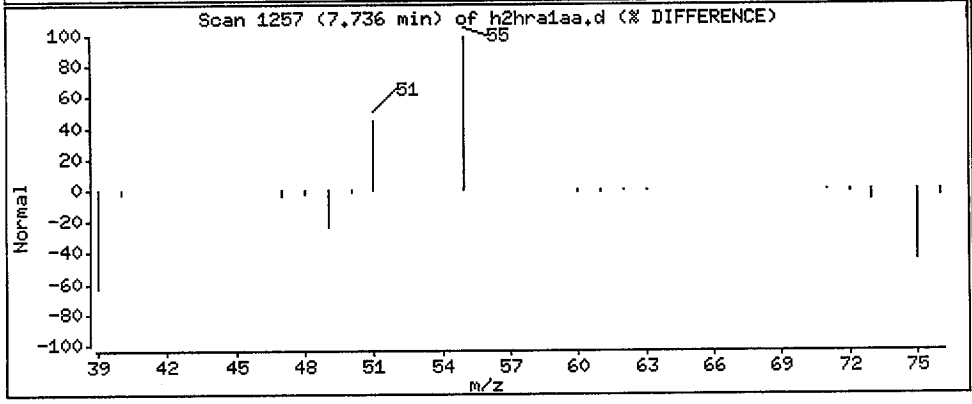












Data File: /chem/gcms/mz.i/Z040506.b/h2hra1aa.d

Date : 05-APR-2006 23:40

Client ID: G-3074-R3-SCRUBBER

Instrument: mz.i

Sample Info: H2HRA1AA,1,0,,

Purge Volume: 25.0

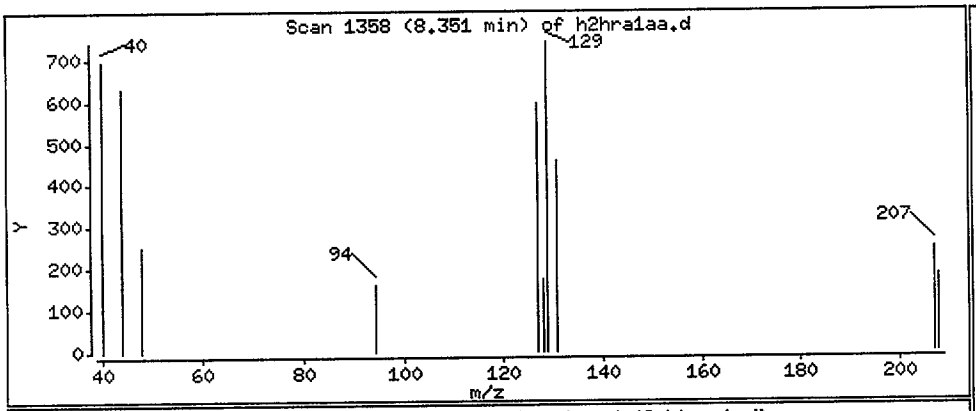
Operator: 063605

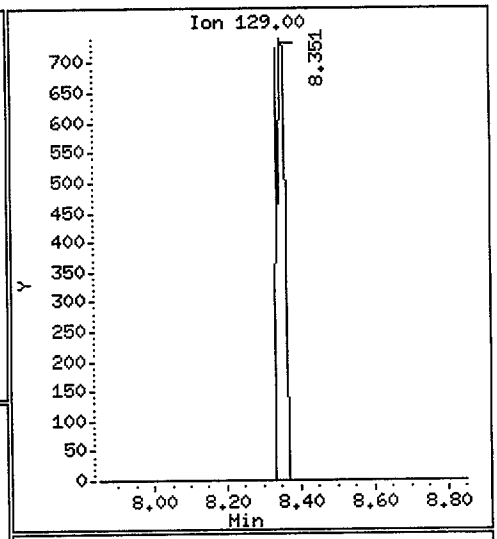
Column phase: J+W 624

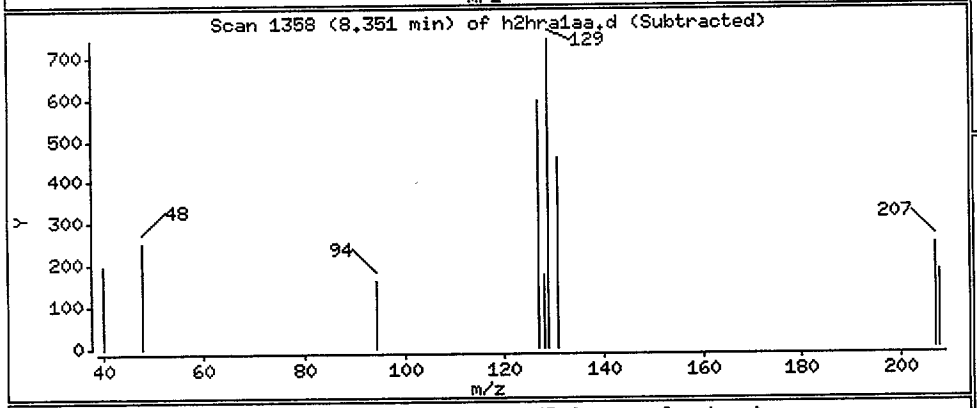
Column diameter: 0.18

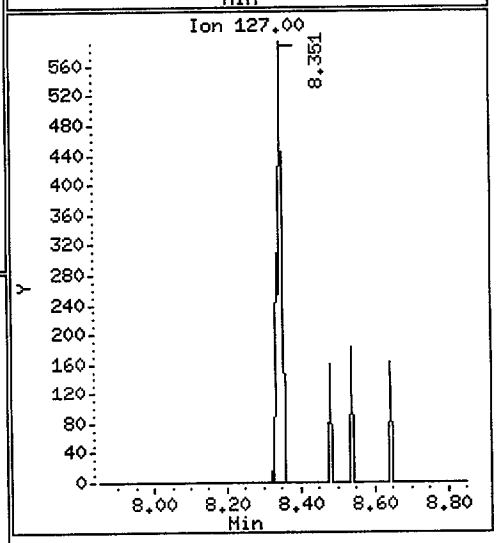
61 Chlorodibromomethane

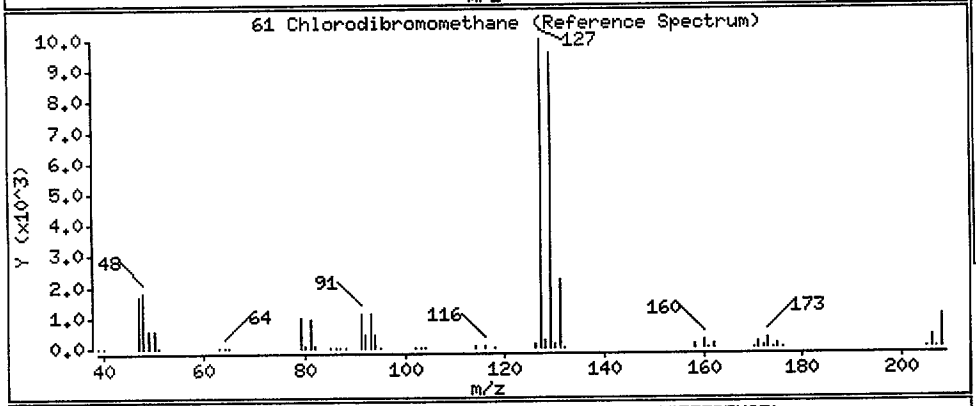
Concentration: 0.89067 ug/L

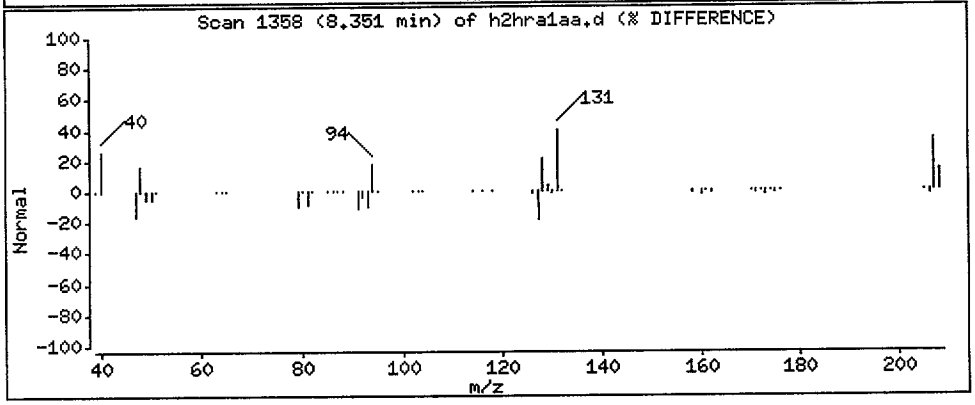












Data File: /chem/gcms/mz.i/Z040506.b/h2hra1aa.d

Date : 05-APR-2006 23:40

Client ID: G-3074-R3-SCRUBBER

Instrument: mz.i

Sample Info: H2HRA1AA,1,0,,

Purge Volume: 25.0

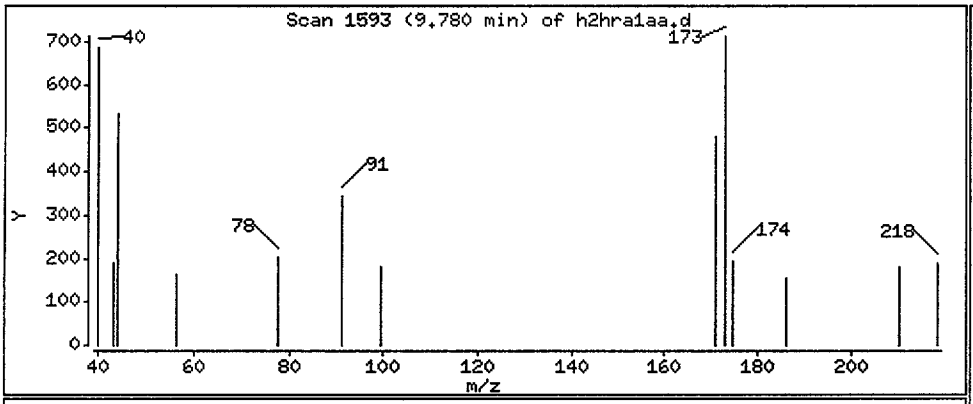
Operator: 063605

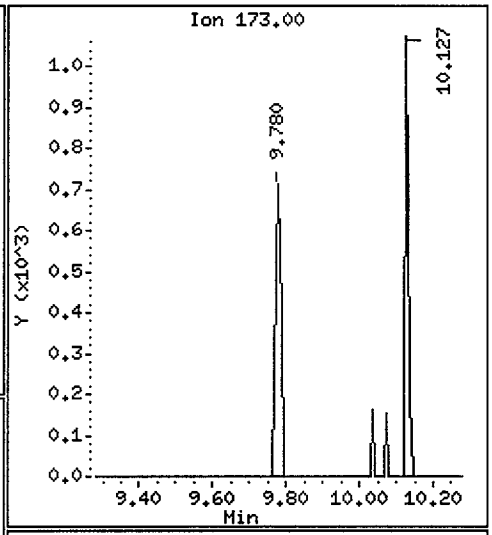
Column phase: J+W 624

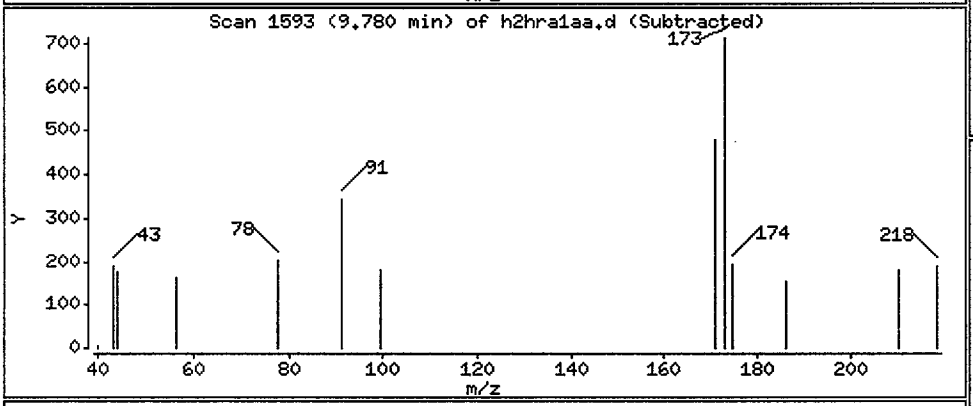
Column diameter: 0.18

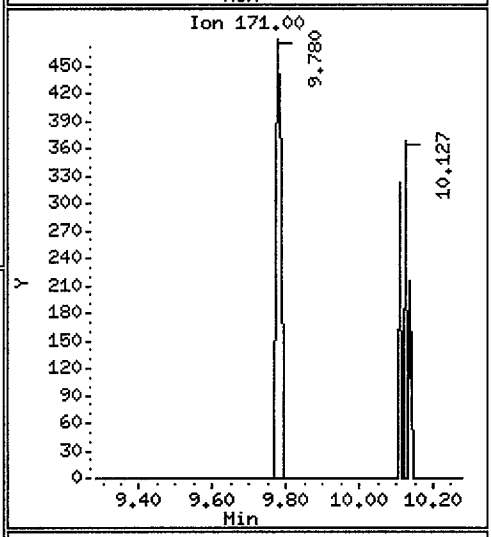
69 Bromoform (spcc)

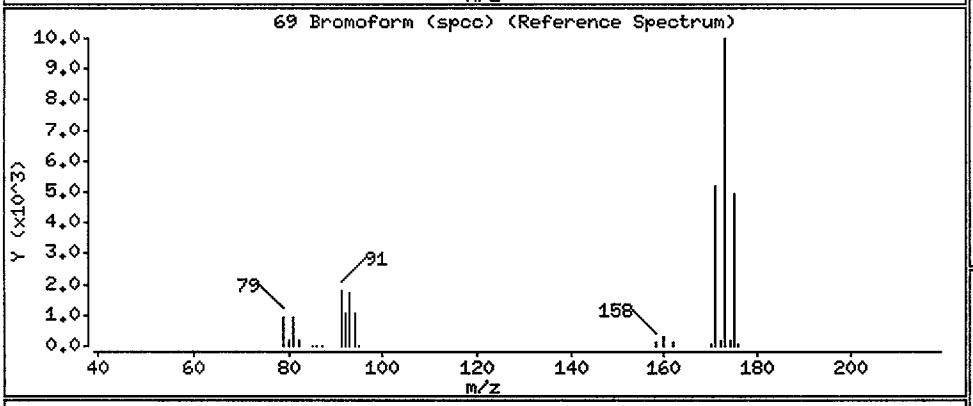
Concentration: 1.0490 ug/L

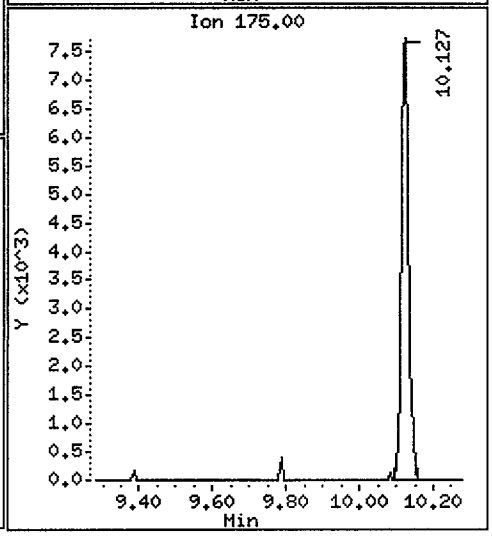


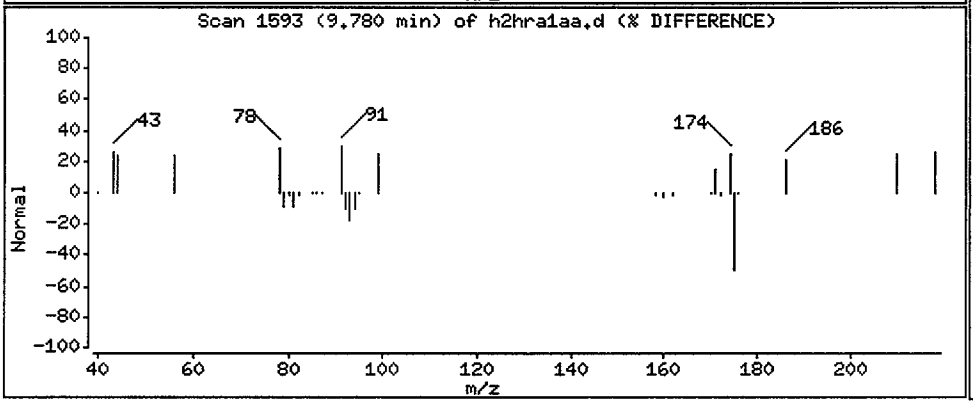












Data File: /var/chem/gcms/mz.i/Z040506.b/h2hra1aa.d
Report Date: 07-Apr-2006 14:00

STL Knoxville

Volatile Organics by GC/MS

Data file : /var/chem/gcms/mz.i/Z040506.b/h2hra1aa.d
Lab Smp Id: H2HRA1AA Client Smp ID: G-3074-R3-SCRUBBER
Inj Date : 05-APR-2006 23:40
Operator : 063605 Inst ID: mz.i
Smp Info : H2HRA1AA,1,0,,
Misc Info : Z040506,8260B_LM,focus.sub
Comment : Volatile Organics by GC/MS
Method : /var/chem/gcms/mz.i/Z040506.b/8260B_LM.m
Meth Date : 06-Apr-2006 17:11 tillerm Quant Type: ISTD
Cal Date : 24-MAR-2006 13:51 Cal File: icvzc248.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: focus.sub
Target Version: 3.50
Processing Host: qmidhp01

Concentration Formula: Amt * DF * Uf*Vt/(Vo*1000) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Unit Correction factor
Vt	25000.00000	Sample Volume Purged
Vo	25.00000	Sample Volume Used

Cpnd Variable Local Compound Variable

ISTD	RT	HEIGHT	AMOUNT
* 1 Fluorobenzene	5.668	984580	10.000

	CONCENTRATIONS			QUANT		
RT	HEIGHT	ON-COL(ug/L)	FINAL(ug/L)	QUAL	LIBRARY	LIB ENTRY	CPND #
Carbon dioxide Air				CAS #: 124-38-9			
0.911	2320245	23.5658352	23.566	5	NIST05.1	80	1

MT 4/7/06

Data File: /var/chem/gcms/mz.i/Z040506.b/h2hra1aa.d

Date : 05-APR-2006 23:40

Client ID: G-3074-R3-SCRUBBER

Instrument: mz.i

Sample Info: H2HRA1AA,1,0,,

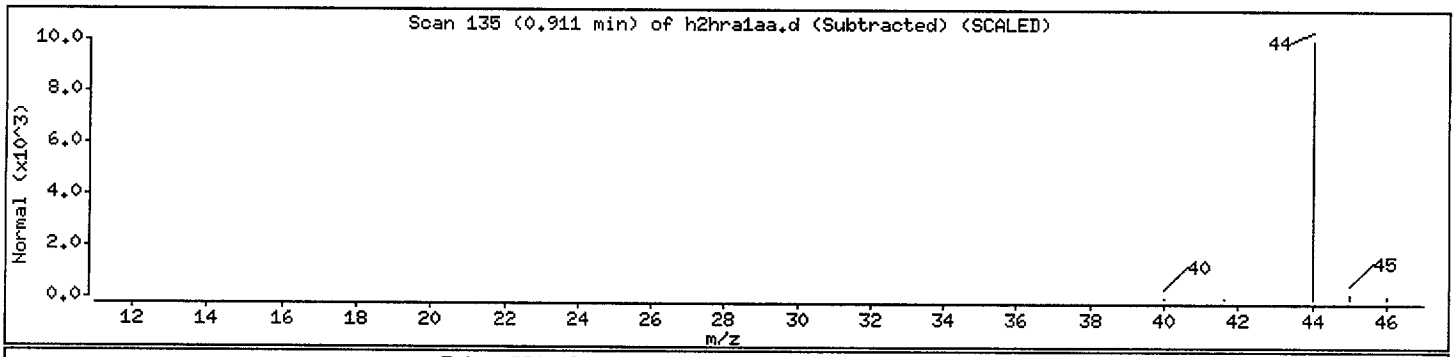
Purge Volume: 25.0

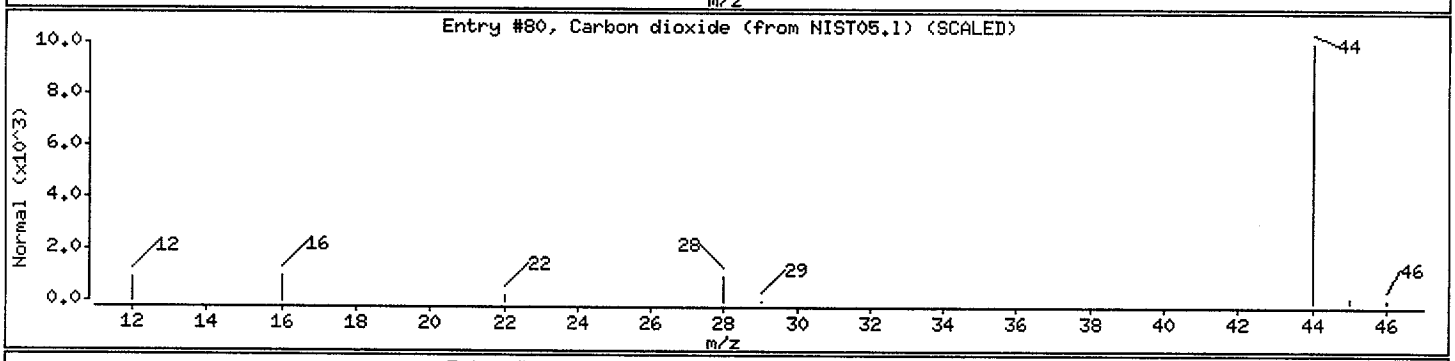
Operator: 063605

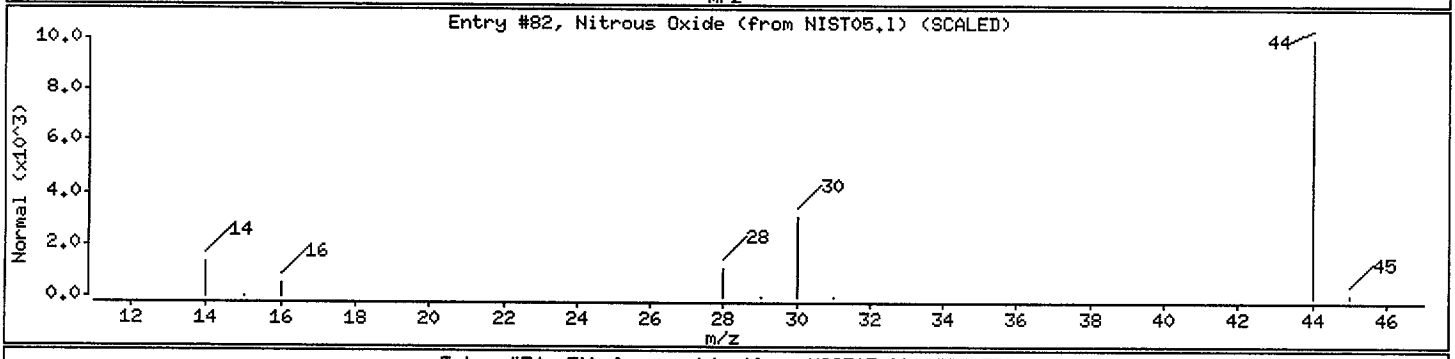
Column phase: J+W 624

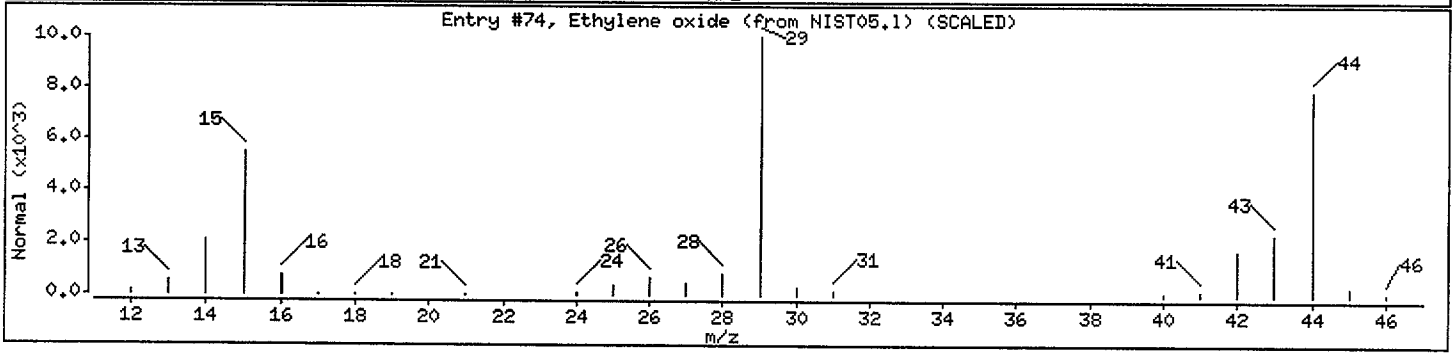
Column diameter: 0.18

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Carbon dioxide	124-38-9	NIST05.l	80	5	CO2	44
Nitrous Oxide	10024-97-2	NIST05.l	82	3	N2O	44
Ethylene oxide	75-21-8	NIST05.l	74	2	C2H4O	44









STL Knoxville - ACS

Client Sample ID: G-3078-R3-POTW DISCHARGE

GC/MS Volatiles

Lot-Sample #...: H6D030205-012 **Work Order #...:** H2HRF1AA **Matrix.....:** WATER
Date Sampled...: 03/30/06 **Date Received..:** 04/02/06
Prep Date.....: 04/05/06 **Analysis Date..:** 04/06/06
Prep Batch #...: 6095253
Dilution Factor: 1 **Method.....:** SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	**4.8 J**	**10**	**ug/L**	**1.4**
Acrylonitrile	ND	20	ug/L	2.7
Benzene	ND	1.0	ug/L	0.10
Bromobenzene	ND	1.0	ug/L	0.11
Bromochloromethane	ND	1.0	ug/L	0.24
Bromodichloromethane	**1.0**	**1.0**	**ug/L**	**0.10**
Bromoform	**2.1**	**1.0**	**ug/L**	**0.14**
Bromomethane	ND	2.0	ug/L	0.38
2-Butanone	ND	5.0	ug/L	0.75
n-Butylbenzene	ND	1.0	ug/L	0.10
sec-Butylbenzene	ND	1.0	ug/L	0.10
tert-Butylbenzene	ND	1.0	ug/L	0.24
Carbon disulfide	**0.16 J**	**1.0**	**ug/L**	**0.10**
Carbon tetrachloride	ND	1.0	ug/L	0.12
Chlorobenzene	ND	1.0	ug/L	0.10
Chlorodibromomethane	**1.4**	**1.0**	**ug/L**	**0.20**
Chloroethane	ND	2.0	ug/L	0.24
Chloroform	**0.14 J**	**1.0**	**ug/L**	**0.10**
Chloromethane	ND	2.0	ug/L	0.12
2-Chlorotoluene	ND	1.0	ug/L	0.24
4-Chlorotoluene	ND	1.0	ug/L	0.21
1,2-Dibromo-3-chloro-propane	ND	2.0	ug/L	0.45
1,2-Dibromoethane	ND	1.0	ug/L	0.24
Dibromomethane	ND	1.0	ug/L	0.21
1,2-Dichlorobenzene	ND	1.0	ug/L	0.10
1,3-Dichlorobenzene	ND	1.0	ug/L	0.10
1,4-Dichlorobenzene	ND	1.0	ug/L	0.12
Dichlorodifluoromethane	ND	2.0	ug/L	0.15
1,1-Dichloroethane	ND	1.0	ug/L	0.10
1,2-Dichloroethane	ND	1.0	ug/L	0.10
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.12
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.10
1,1-Dichloroethene	ND	1.0	ug/L	0.10
1,2-Dichloropropane	ND	1.0	ug/L	0.10
1,3-Dichloropropane	ND	1.0	ug/L	0.17
2,2-Dichloropropane	ND	1.0	ug/L	0.11
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.10
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.11

(Continued on next page)

STL Knoxville - ACS

Client Sample ID: G-3078-R3-POTW DISCHARGE

GC/MS Volatiles

Lot-Sample #...: H6D030205-012 **Work Order #...:** H2HRF1AA **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1-Dichloropropene	ND	1.0	ug/L	0.10
Ethylbenzene	ND	1.0	ug/L	0.10
Hexachlorobutadiene	ND	2.0	ug/L	0.12
2-Hexanone	ND	5.0	ug/L	0.76
Iodomethane	ND	2.0	ug/L	0.12
Isopropylbenzene	ND	1.0	ug/L	0.10
p-Isopropyltoluene	ND	1.0	ug/L	0.10
Methylene chloride	**0.65 J**	**2.0**	**ug/L**	**0.23**
4-Methyl-2-pentanone	ND	5.0	ug/L	0.40
Naphthalene	ND	1.0	ug/L	0.17
n-Propylbenzene	ND	1.0	ug/L	0.10
Styrene	ND	1.0	ug/L	0.10
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	0.12
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.15
Tetrachloroethene	ND	1.0	ug/L	0.10
Tetrahydrofuran	ND	4.0	ug/L	1.2
Toluene	**0.12 J**	**1.0**	**ug/L**	**0.10**
1,2,3-Trichlorobenzene	ND	1.0	ug/L	0.23
1,2,4-Trichloro-benzene	ND	1.0	ug/L	0.15
1,1,1-Trichloroethane	ND	1.0	ug/L	0.10
1,1,2-Trichloroethane	ND	1.0	ug/L	0.25
Trichloroethene	ND	1.0	ug/L	0.10
Trichlorofluoromethane	ND	2.0	ug/L	0.12
1,2,3-Trichloropropane	ND	1.0	ug/L	0.36
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	1.0	ug/L	0.13
1,2,4-Trimethylbenzene	ND	1.0	ug/L	0.11
1,3,5-Trimethylbenzene	ND	1.0	ug/L	0.10
Vinyl acetate	ND	2.0	ug/L	0.24
Vinyl chloride	ND	1.0	ug/L	0.24
m-Xylene & p-Xylene	ND	1.0	ug/L	0.20
o-Xylene	ND	1.0	ug/L	0.14
Xylenes (total)	ND	1.0	ug/L	0.30

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	107	(79 - 120)
1,2-Dichloroethane-d4	109	(71 - 127)
Toluene-d8	101	(80 - 120)
Bromofluorobenzene	95	(69 - 126)

NOTE(S):

J Estimated result. Result is less than RL.

STL Knoxville - ACS

G-3078-R3-POTW DISCHARGE

GC/MS Volatiles

Lot-Sample #: H6D030205-012 **Work Order #:** H2HRF1AA **Matrix:** WATER

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT	RETENTION TIME	UNITS
None				ug/L

Data File: /var/chem/gcms/mz.i/Z040506.b/h2hrf1aa.d
Report Date: 07-Apr-2006 14:02

STL Knoxville

Volatile Organics by GC/MS

Data file : /var/chem/gcms/mz.i/Z040506.b/h2hrf1aa.d
Lab Smp Id: H2HRF1AA Client Smp ID: G-3078-R3-POTW DISC
Inj Date : 06-APR-2006 00:03
Operator : 063605 Inst ID: mz.i
Smp Info : H2HRF1AA,1,0,,
Misc Info : Z040506,8260B_LM,focus.sub
Comment : Volatile Organics by GC/MS
Method : /var/chem/gcms/mz.i/Z040506.b/8260B_LM.m
Meth Date : 06-Apr-2006 17:11 tillerm Quant Type: ISTD
Cal Date : 24-MAR-2006 13:51 Cal File: icvzc248.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: focus.sub
Target Version: 3.50
Processing Host: qmidhp01

Concentration Formula: Amt * DF * Uf*Vt/(Vo*1000) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Unit Correction factor
Vt	25000.00000	Sample Volume Purged
Vo	25.00000	Sample Volume Used

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
*	1 Fluorobenzene	96	5.668	5.667	(1.000)	960270	10.0000	
*	2 Chlorobenzene-d5	119	8.929	8.933	(1.000)	172822	10.0000	
*	3 1,4 Dichlorobenzene-d4	152	11.484	11.488	(1.000)	208616	10.0000	
$	5 1,2-Dichloroethane-d4	65	5.230	5.229	(0.923)	144698	10.8748	10.875
$	4 Dibromofluoromethane	113	4.823	4.821	(0.851)	165121	10.7312	10.731
$	6 Toluene-d8	98	7.457	7.455	(0.835)	764239	10.0644	10.064
$	7 4-Bromofluorobenzene	95	10.122	10.126	(0.881)	200121	9.51191	9.5119
	22 Acetone	43	2.116	2.126	(0.373)	8205	4.75481	4.7548(M)
	24 Carbon Disulfide	76	2.225	2.229	(0.393)	11670	0.15841	0.15841
	27 Methylene Chloride	84	2.505	2.503	(0.442)	10427	0.64925	0.64925
	40 Chloroform (ccc)	83	4.616	4.608	(0.814)	4751	0.13693	0.13693
	50 Bromodichloromethane	83	6.684	6.683	(1.179)	4806	1.00165	1.0016
	54 Toluene (ccc)	91	7.530	7.522	(0.843)	11687	0.11883	0.11883
	61 Chlorodibromomethane	129	8.345	8.349	(0.935)	6015	1.43203	1.4320

Data File: /var/chem/gcms/mz.i/Z040506.b/h2hrf1aa.d
Report Date: 07-Apr-2006 14:02

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
69 Bromoform (spcc)	173	9.781	9.779	(1.095)	3709	2.13877	2.1388

QC Flag Legend

M - Compound response manually integrated.

Data File: /chem/gcms/mz.i/Z040506.b/h2hrf1aa.d
Report Date: 06-Apr-2006 00:21

STL Knoxville

Volatile Organics by GC/MS

Data file : /chem/gcms/mz.i/Z040506.b/h2hrf1aa.d
Lab Smp Id: H2HRF1AA Client Smp ID: G-3078-R3-POTW DISC
Inj Date : 06-APR-2006 00:03
Operator : 063605 Inst ID: mz.i
Smp Info : H2HRF1AA,1,0,,
Misc Info : Z040506,8260B_LM,focus.sub
Comment : Volatile Organics by GC/MS
Method : /var/chem/gcms/mz.i/Z040506.b/8260B_LM.m
Meth Date : 05-Apr-2006 15:47 tillerm Quant Type: ISTD
Cal Date : 24-MAR-2006 13:51 Cal File: icvzc248.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: focus.sub
Target Version: 3.50
Processing Host: qmidhp01

Concentration Formula: Amt * DF * Uf*Vt/(Vo*1000) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Unit Correction factor
Vt	25000.00000	Sample Volume Purged
Vo	25.00000	Sample Volume Used

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
* 1	Fluorobenzene	96	5.668	5.667	(1.000)	960270	10.0000	
* 2	Chlorobenzene-d5	119	8.929	8.933	(1.000)	172822	10.0000	
* 3	1,4 Dichlorobenzene-d4	152	11.484	11.488	(1.000)	208616	10.0000	
$ 5	1,2-Dichloroethane-d4	65	5.230	5.229	(0.923)	144698	10.8748	10.875
$ 4	Dibromofluoromethane	113	4.823	4.821	(0.851)	165121	10.7312	10.731
$ 6	Toluene-d8	98	7.457	7.455	(0.835)	764239	10.0644	10.064
$ 7	4-Bromofluorobenzene	95	10.122	10.126	(0.881)	200121	9.51189	9.5119
15	Bromomethane	94	1.404	1.414	(0.248)	460	~~0.87920~~	~~0.87920~~
22	Acetone	43	2.134	2.126	(0.376)	3176	3.79776	3.7978
23	*Iodomethane	142	2.170	2.181	(0.383)	627	~~0.54727~~	~~0.54727~~
24	Carbon Disulfide	76	2.225	2.229	(0.393)	11670	0.15841	0.15841
27	Methylene Chloride	84	2.505	2.503	(0.442)	10427	0.64927	0.64927
39	*THF	42	4.324	4.529	(0.763)	1342	~~0.58938~~	~~0.58938~~
40	Chloroform (ccc)	83	4.616	4.608	(0.814)	4751	0.13696	0.13696

MT 4/7/06

Data File: /chem/gcms/mz.i/Z040506.b/h2hrf1aa.d
Report Date: 06-Apr-2006 00:21

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
45 1,2-Dichloroethane	62	5.662	5.326	(0.999)	9848	~~0.49112~~	~~0.49112~~
50 Bromodichloromethane	83	6.684	6.683	(1.179)	4806	1.00167	1.0017
53 4-Methyl-2-pentanone	43	7.463	7.376	(1.317)	6542	~~0.78020~~	~~0.78020~~
54 Toluene (ccc)	91	7.530	7.522	(0.843)	11687	0.11883	0.11883
55 trans-1,3-Dichloropropene	75	7.469	7.784	(0.836)	176	~~0.63653~~	~~0.63653~~
61 Chlorodibromomethane	129	8.345	8.349	(0.935)	6015	1.43205	1.4320
69 Bromoform (spcc)	173	9.781	9.779	(1.095)	3709	2.13881	2.1388

MT 4/7/06

Data File: /chem/gcms/mz.i/Z040506.b/h2hrf1aa.d
Report Date: 06-Apr-2006 00:21

STL Knoxville

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: mz.i
Lab File ID: h2hrf1aa.d
Lab Smp Id: H2HRF1AA
Analysis Type: VOA
Quant Type: ISTD
Operator: 063605
Calibration Date: 05-APR-2006
Calibration Time: 14:42
Client Smp ID: G-3078-R3-POTW DISC
Level: LOW
Sample Type: WATER
Method File: /var/chem/gcms/mz.i/Z040506.b/8260B_LM.m
Misc Info: Z040506,8260B_LM,focus.sub

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	1078707	539354	2157414	960270	-10.98
2 Chlorobenzene-d5	188899	94450	377798	172822	-8.51
3 1,4 Dichlorobenze	220143	110072	440286	208616	-5.24

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	5.67	5.17	6.17	5.67	0.03
2 Chlorobenzene-d5	8.93	8.43	9.43	8.93	-0.05
3 1,4 Dichlorobenze	11.49	10.99	11.99	11.48	-0.04

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

Data File: /chem/gcms/mz.i/Z040506.b/h2hrf1aa.d
Report Date: 06-Apr-2006 00:21

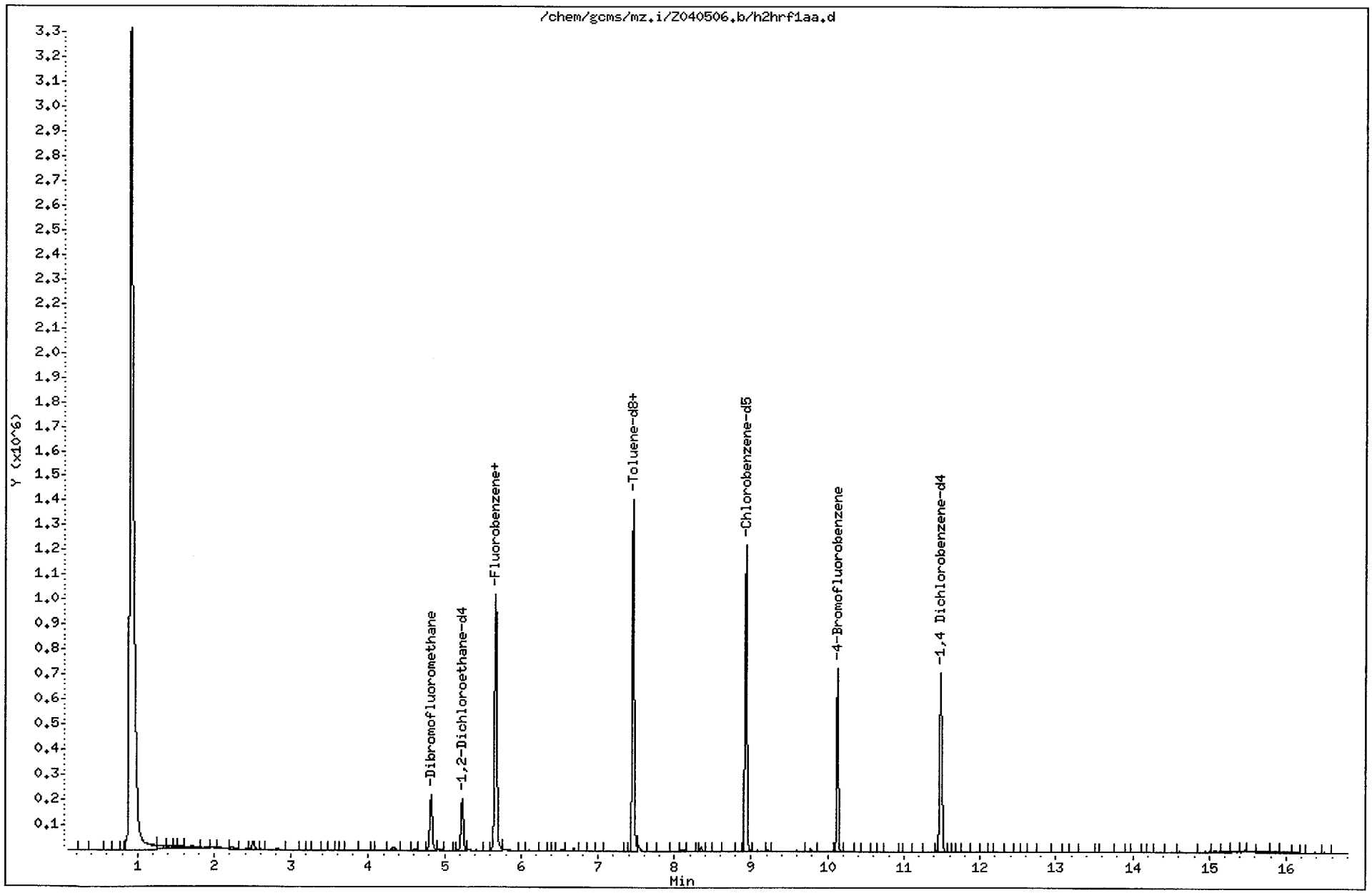
STL Knoxville

RECOVERY REPORT

Client Name: STL Knoxville - ACS
Sample Matrix: LIQUID
Lab Smp Id: H2HRF1AA
Level: LOW
Data Type: MS DATA
SpikeList File: allcmpds.spk
Client SDG: H6D030205
Fraction: VOA
Client Smp ID: G-3078-R3-POTW DISC
Operator: 063605
SampleType: SAMPLE
Quant Type: ISTD
Sublist File: focus.sub
Method File: /var/chem/gcms/mz.i/Z040506.b/8260B_LM.m
Misc Info: Z040506,8260B_LM,focus.sub

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
$ 5 1,2-Dichloroethane	10.000	10.875	108.75	71-127
$ 4 Dibromofluorometha	10.000	10.731	107.31	79-120
$ 6 Toluene-d8	10.000	10.064	100.64	80-120
$ 7 4-Bromofluorobenze	10.000	9.5119	95.12	69-126

Data File: /chem/gcms/mz.i/Z040506.b/h2hrf1aa.d
Date : 06-APR-2006 00:03
Client ID: G-3078-R3-POTW DISC
Instrument: mz.i
Sample Info: H2HRF1AA,1,0,,
Purge Volume: 25.0
Operator: 063605
Column phase: J+W 624
Column diameter: 0.18



Data File: /chem/gcms/mz.i/Z040506.b/h2hrf1aa.d

Date : 06-APR-2006 00:03

Client ID: G-3078-R3-POTW DISC

Instrument: mz.i

Sample Info: H2HRF1AA,1,0,,

Purge Volume: 25.0

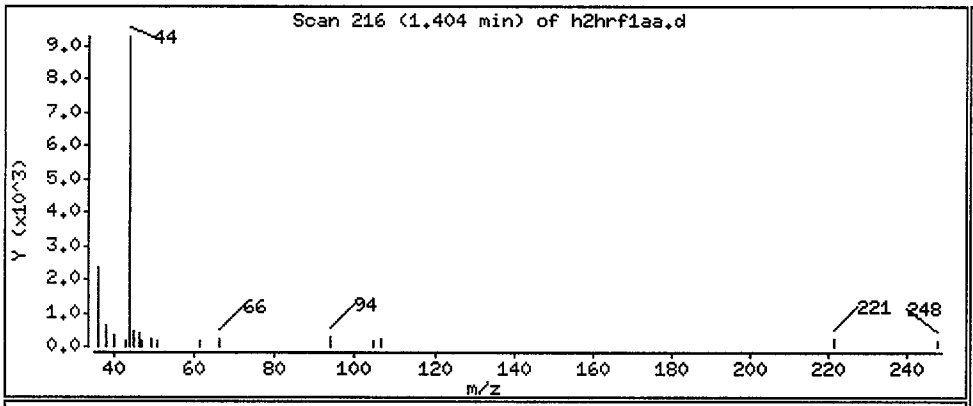
Operator: 063605

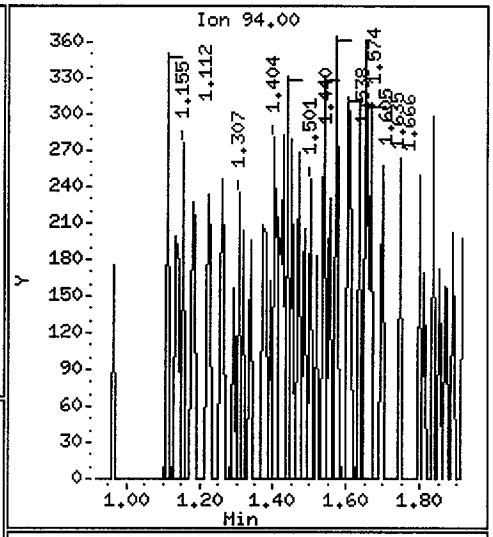
Column phase: J+W 624

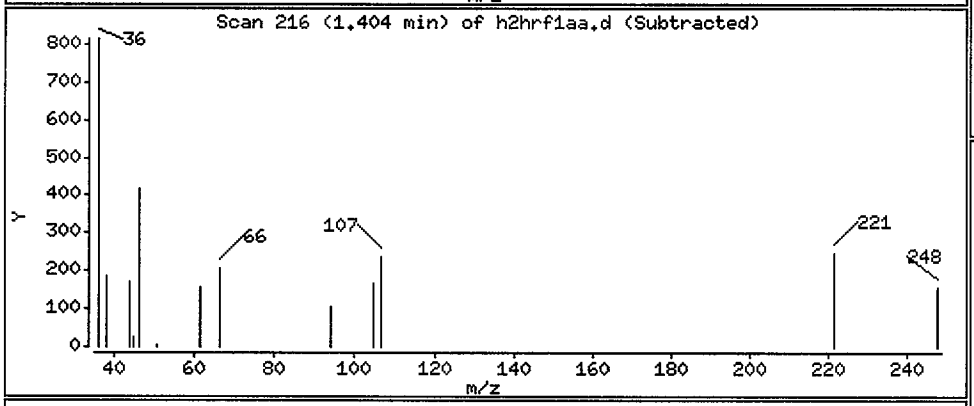
Column diameter: 0.18

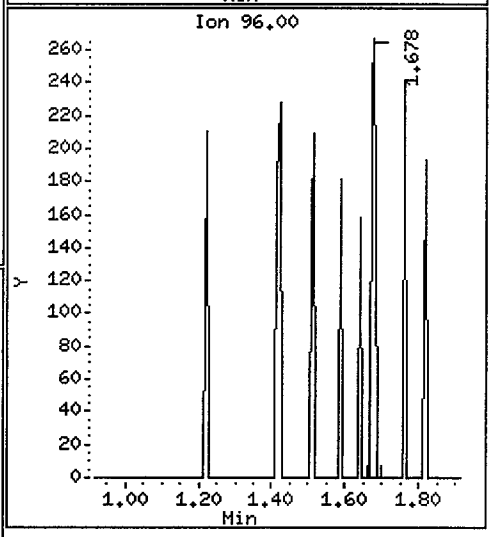
15 Bromomethane

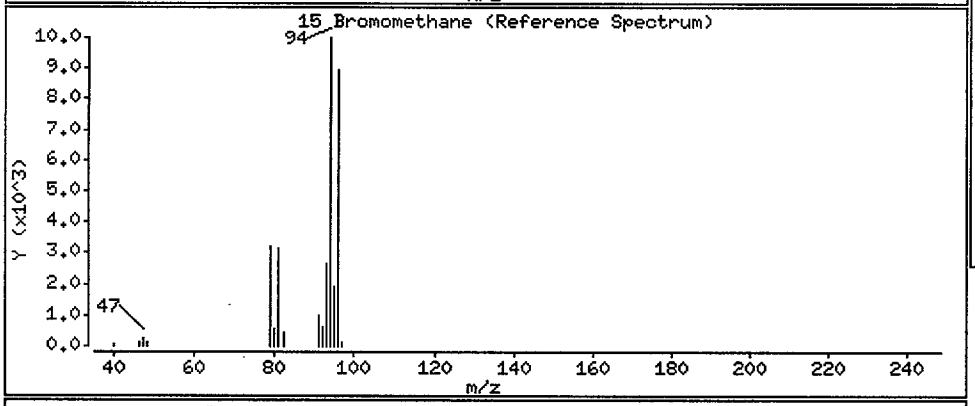
Concentration: 0.87920 ug/L

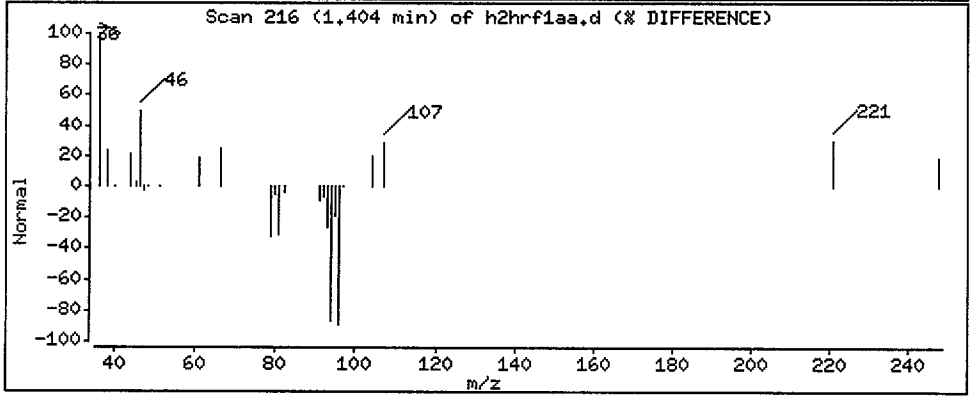












Data File: /var/chem/gcms/mz.i/Z040506.b/h2hrf1aa.d

Date : 06-APR-2006 00:03

Client ID: G-3078-R3-POTW DISC

Instrument: mz.i

Sample Info: H2HRF1AA,1,0,,

Purge Volume: 25.0

Operator: 063605

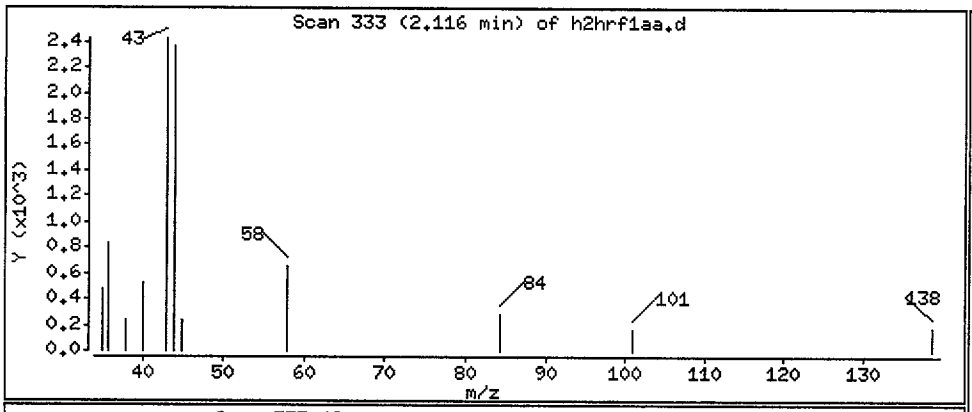
Column phase: J+W 624

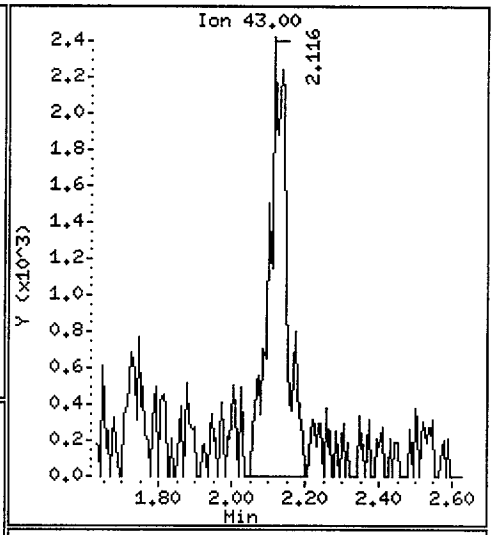
Column diameter: 0.18

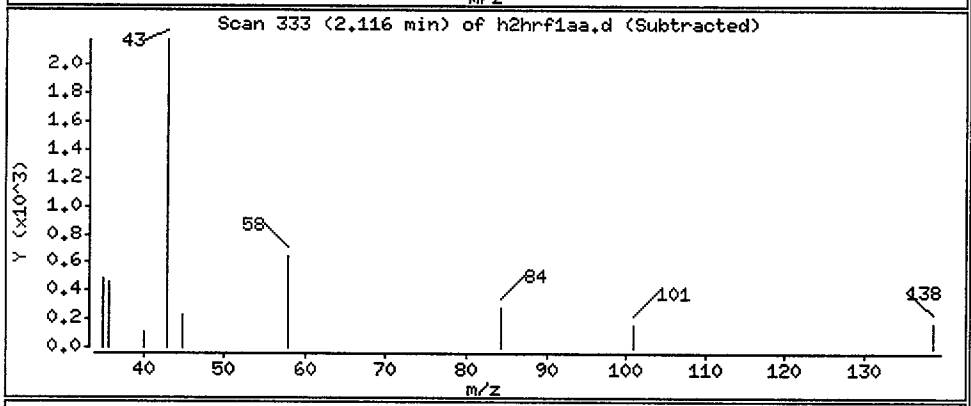
22 Acetone

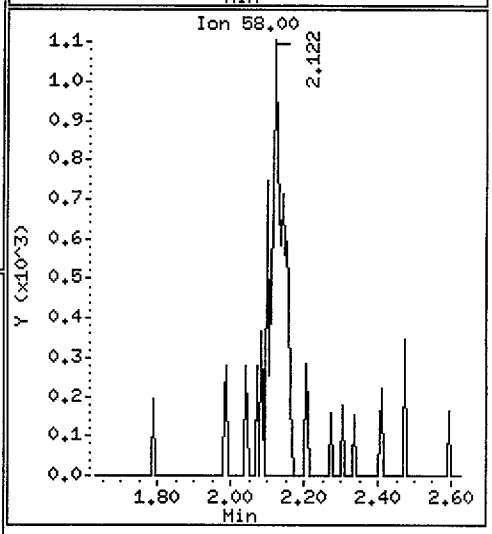
Concentration: 4.7548 ug/L

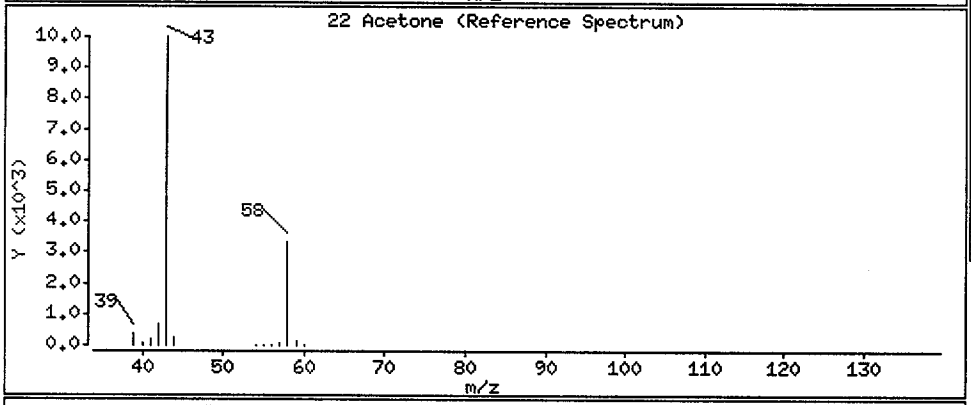
NOT 4/7/06 split peak

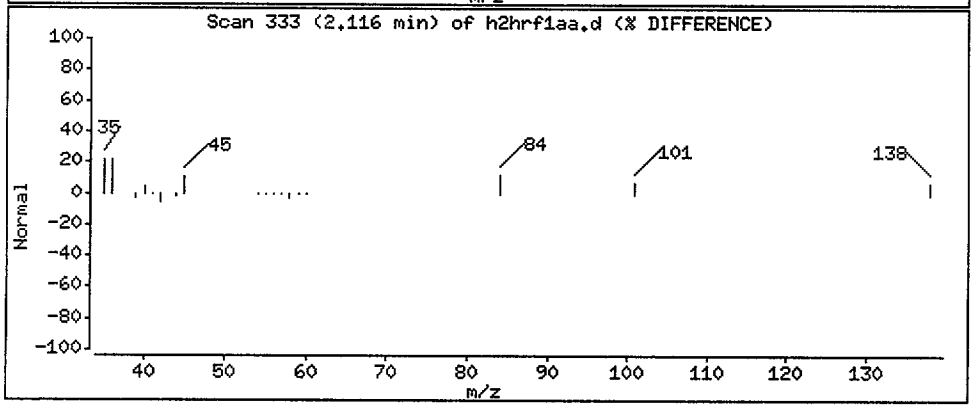












Data File: /chem/gcms/mz.i/Z040506.b/h2hrf1aa.d

Date : 06-APR-2006 00:03

Client ID: G-3078-R3-POTW DISC

Instrument: mz.i

Sample Info: H2HRF1AA,1,0,,

Purge Volume: 25.0

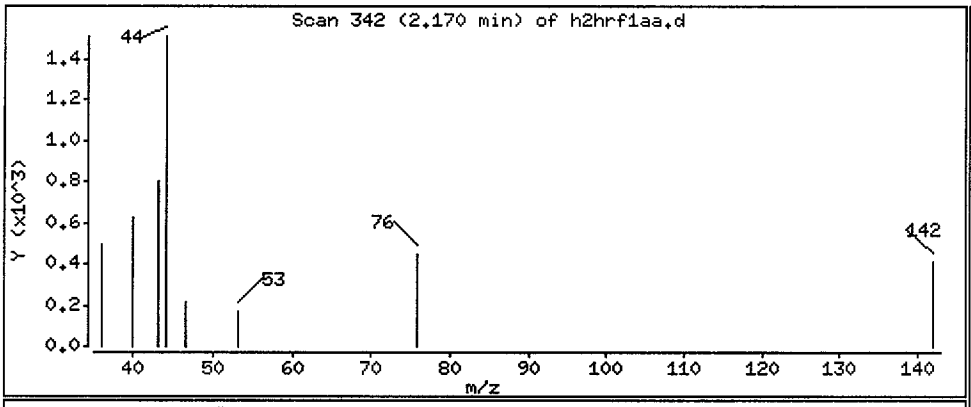
Operator: 063605

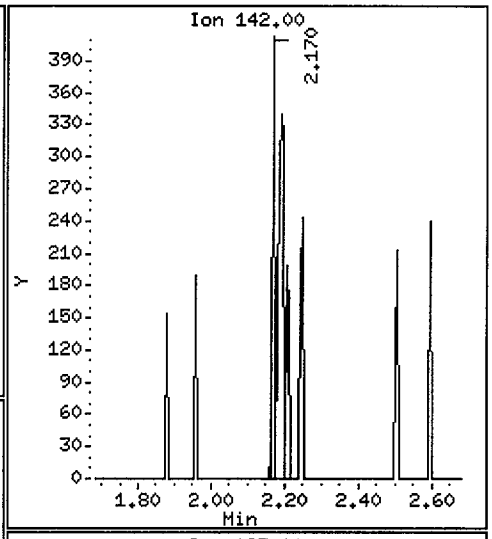
Column phase: J+W 624

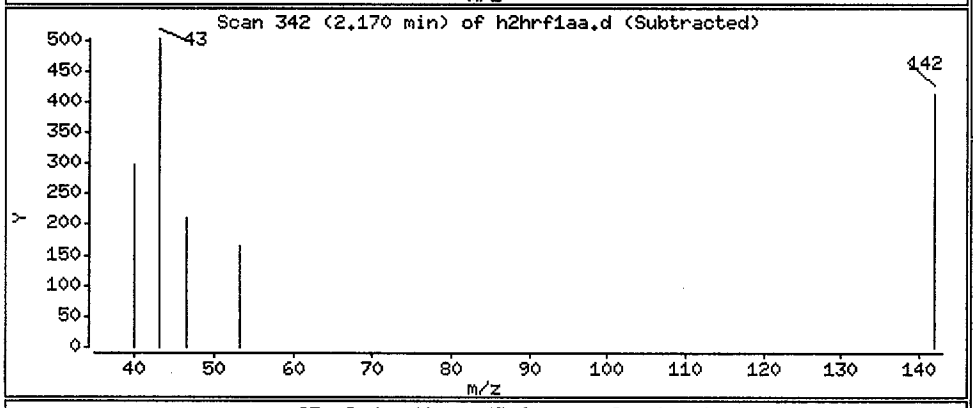
Column diameter: 0.18

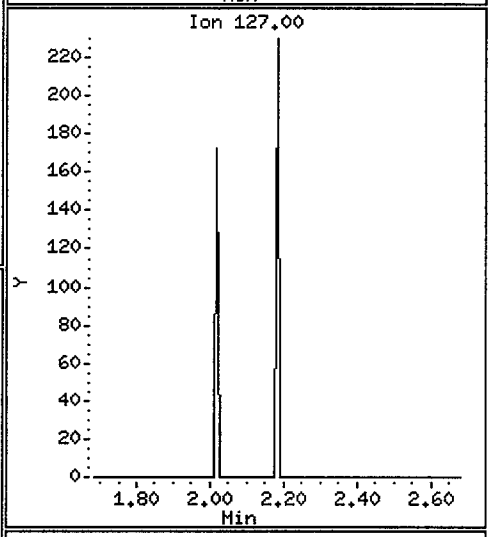
23 *Iodomethane

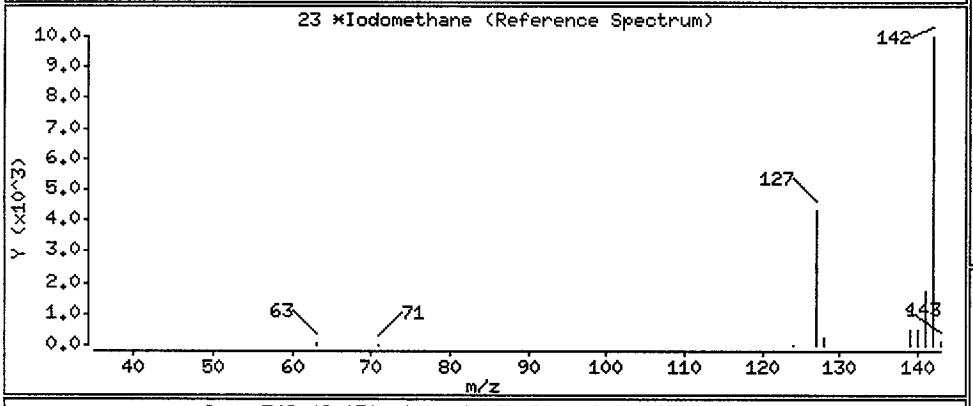
Concentration: 0.54727 ug/L

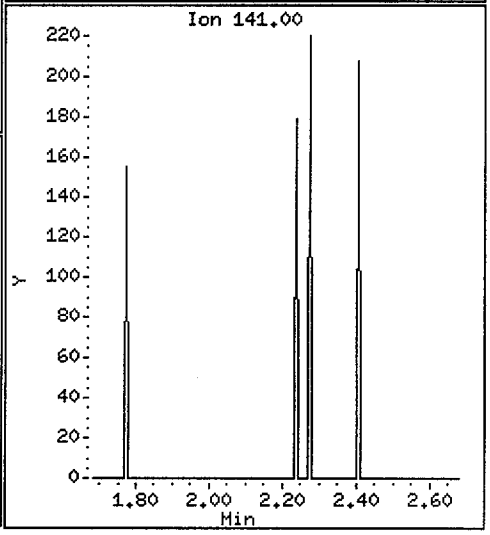


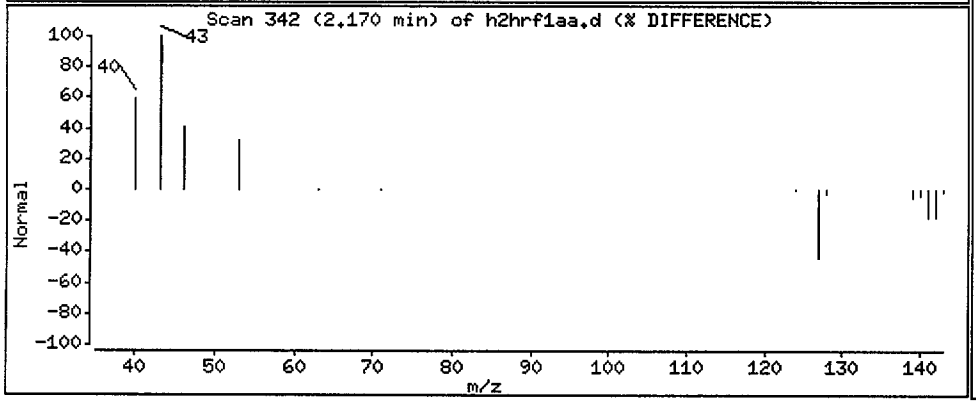












Data File: /chem/gcms/mz.i/Z040506.b/h2hrf1aa.d

Date : 06-APR-2006 00:03

Client ID: G-3078-R3-POTW DISC

Instrument: mz.i

Sample Info: H2HRF1AA,1,0,,

Purge Volume: 25.0

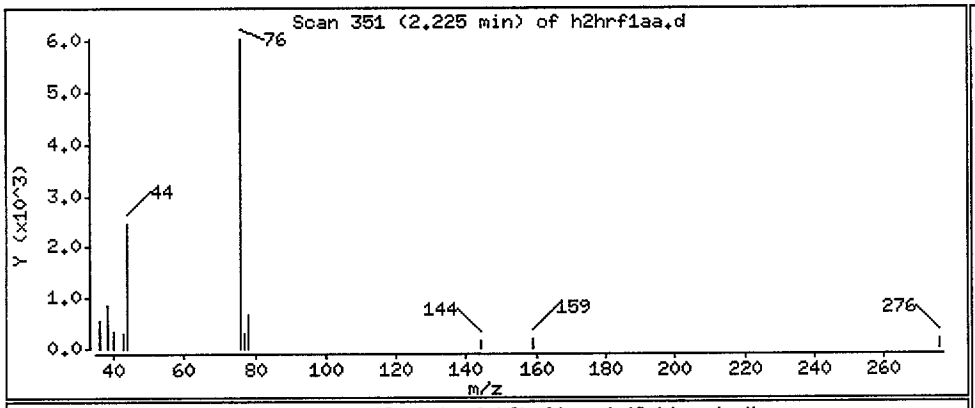
Operator: 063605

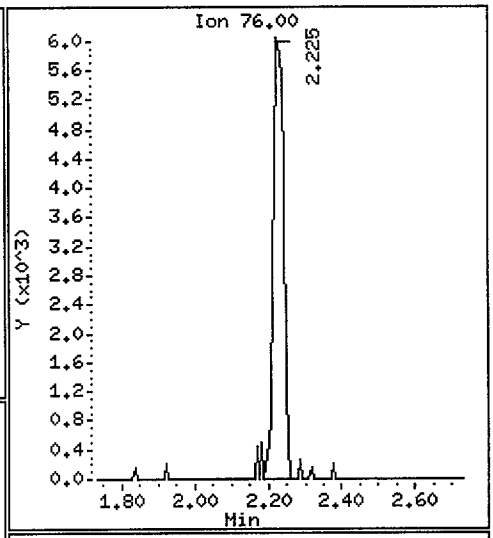
Column phase: J+W 624

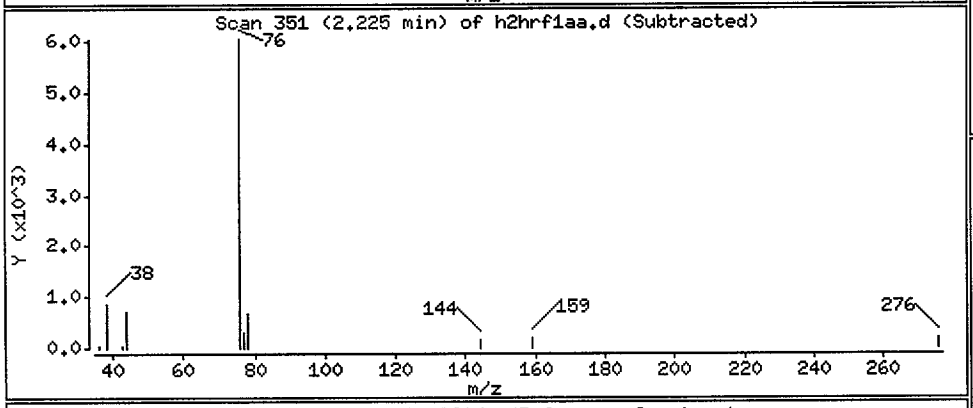
Column diameter: 0.18

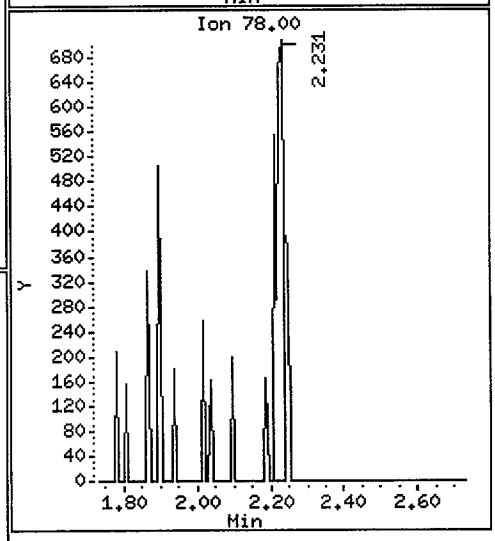
24 Carbon Disulfide

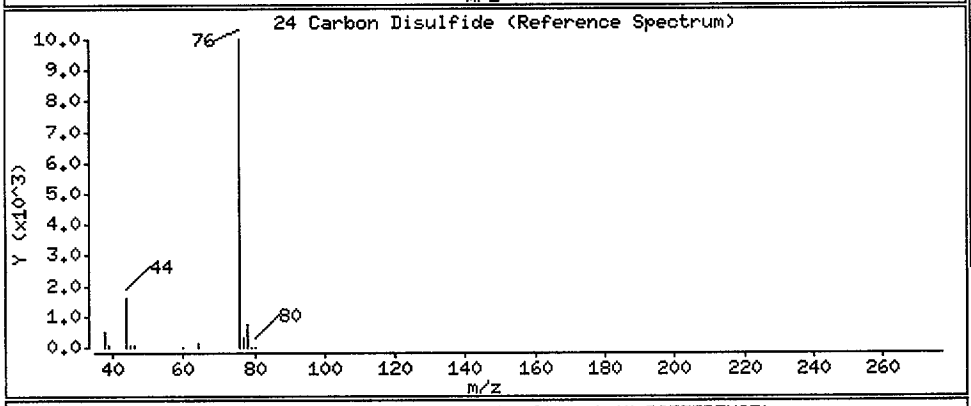
Concentration: 0.15841 ug/L

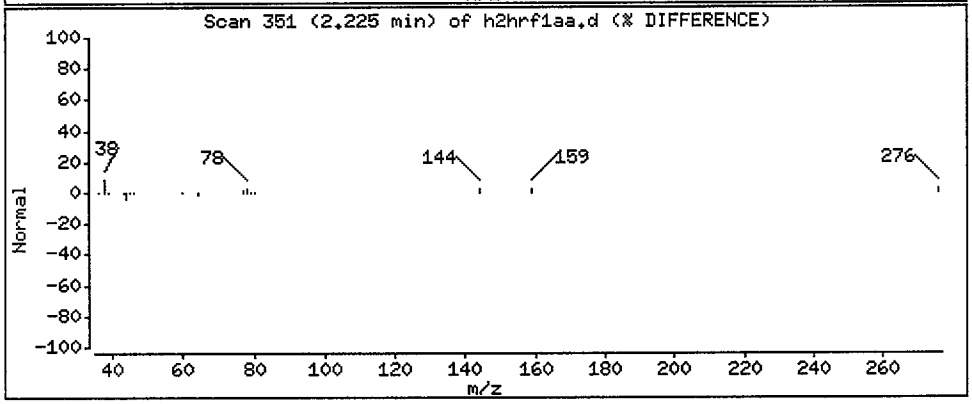












Data File: /chem/gcms/mz.i/Z040506.b/h2hrf1aa.d

Date : 06-APR-2006 00:03

Client ID: G-3078-R3-POTW DISC

Instrument: mz.i

Sample Info: H2HRF1AA,1,0,,

Purge Volume: 25.0

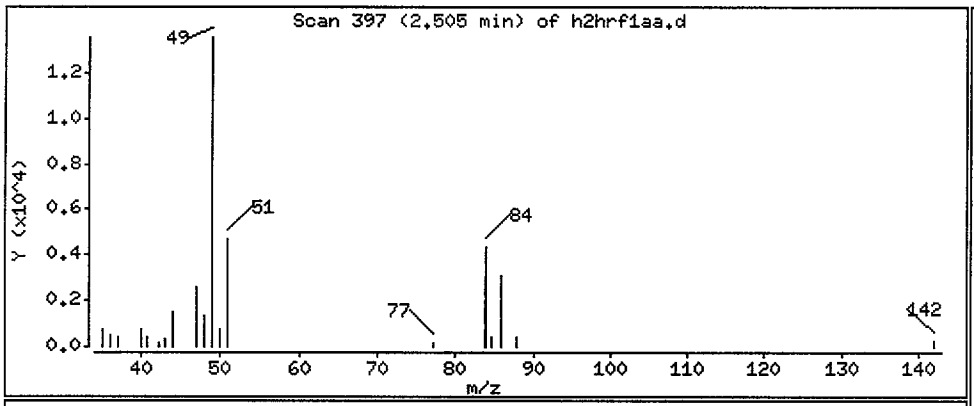
Operator: 063605

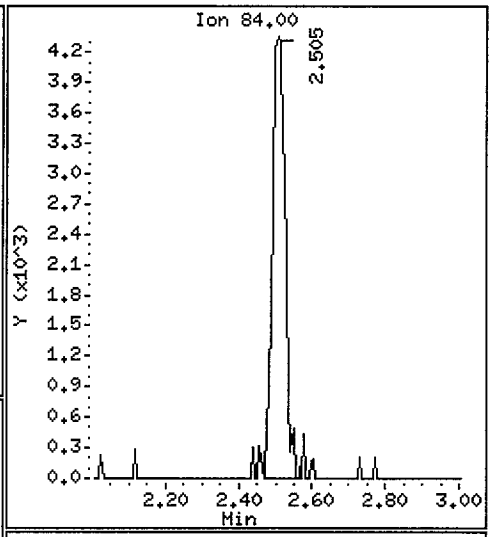
Column phase: J+W 624

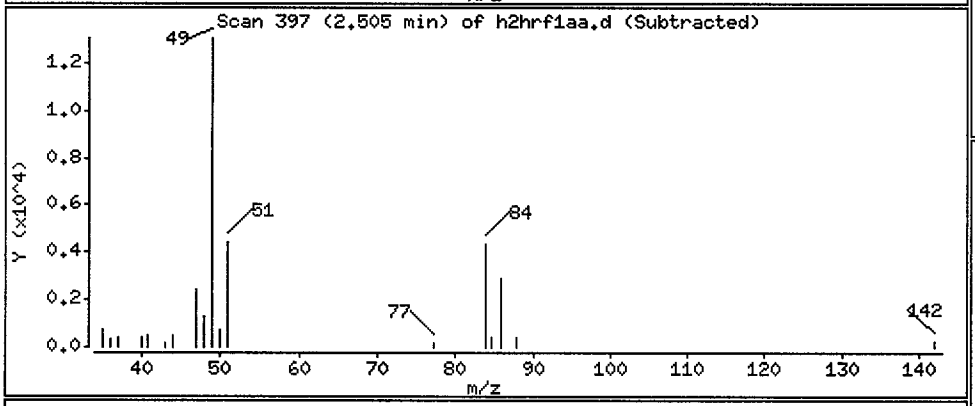
Column diameter: 0.18

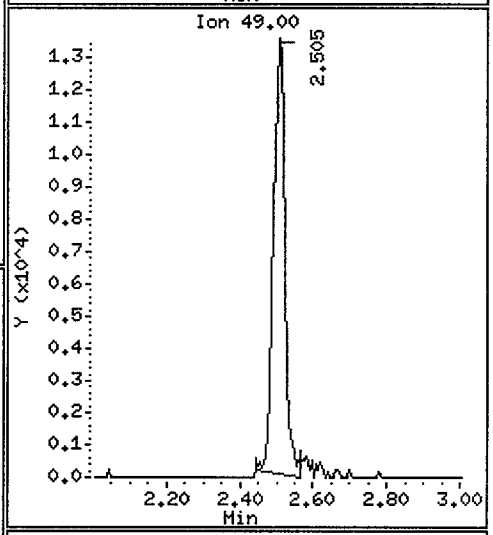
27 Methylene Chloride

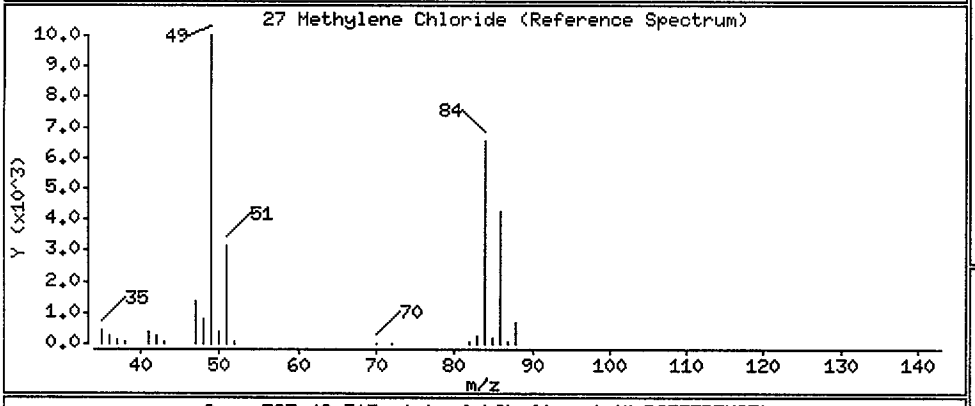
Concentration: 0.64927 ug/L

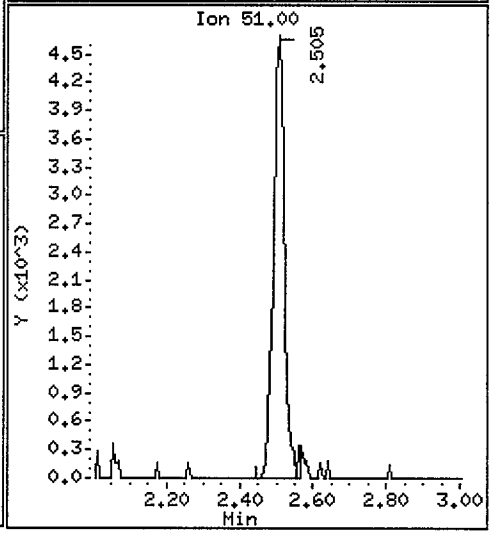


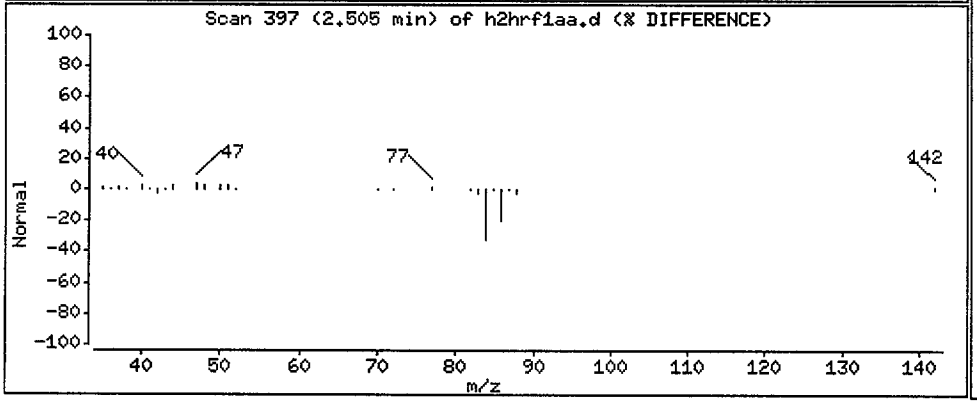












Data File: /chem/gcms/mz.i/Z040506.b/h2hrf1aa.d

Date : 06-APR-2006 00:03

Client ID: G-3078-R3-POTW DISC

Instrument: mz.i

Sample Info: H2HRF1AA,1,0,,

Purge Volume: 25.0

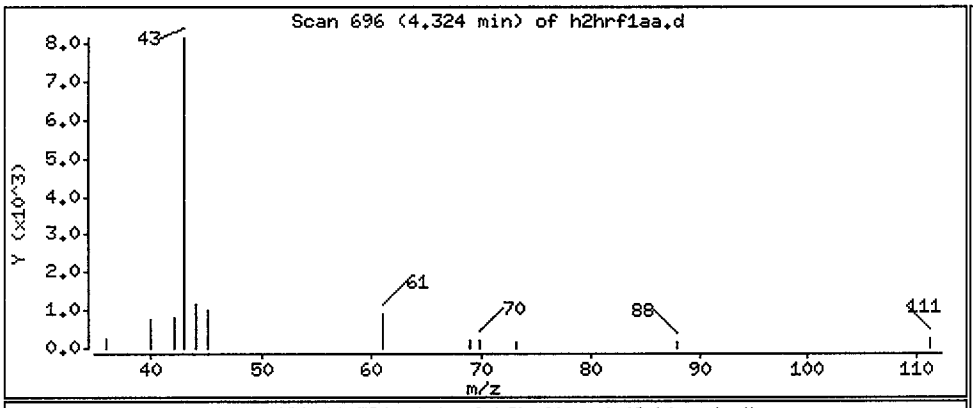
Operator: 063605

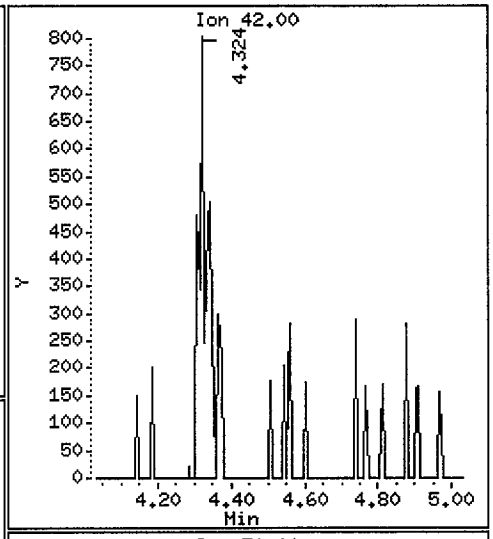
Column phase: J+W 624

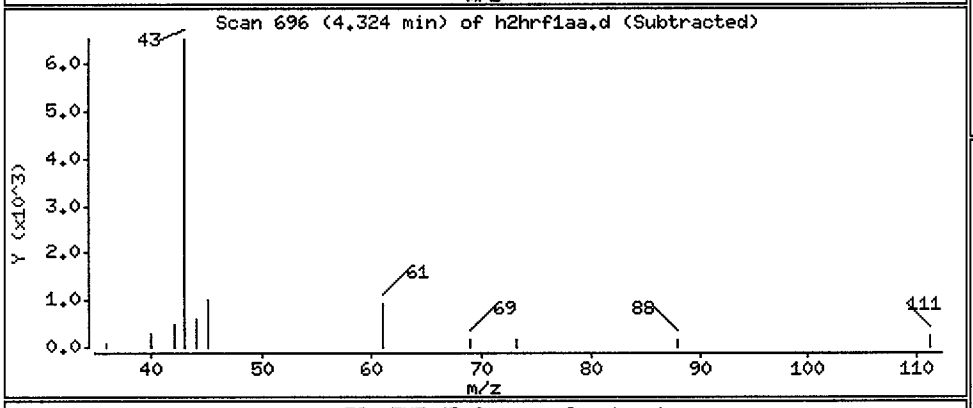
Column diameter: 0.18

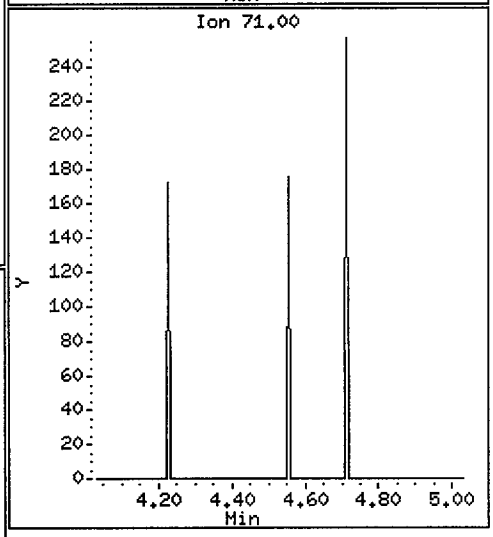
39 *THF

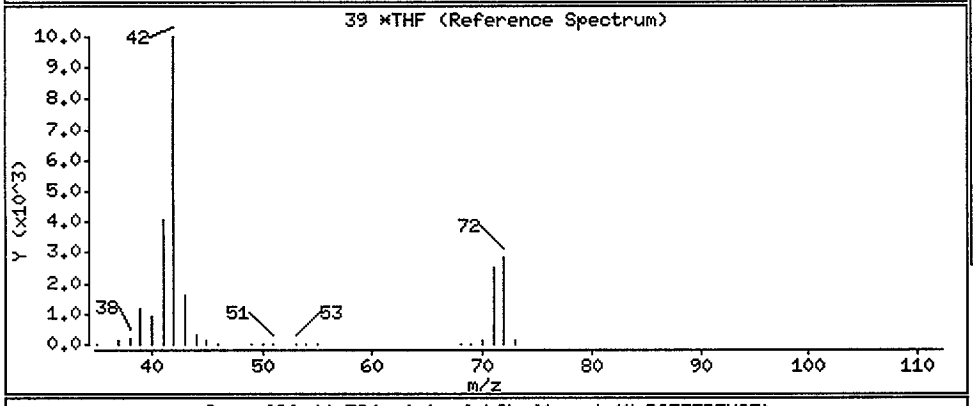
Concentration: 0.58938 ug/L

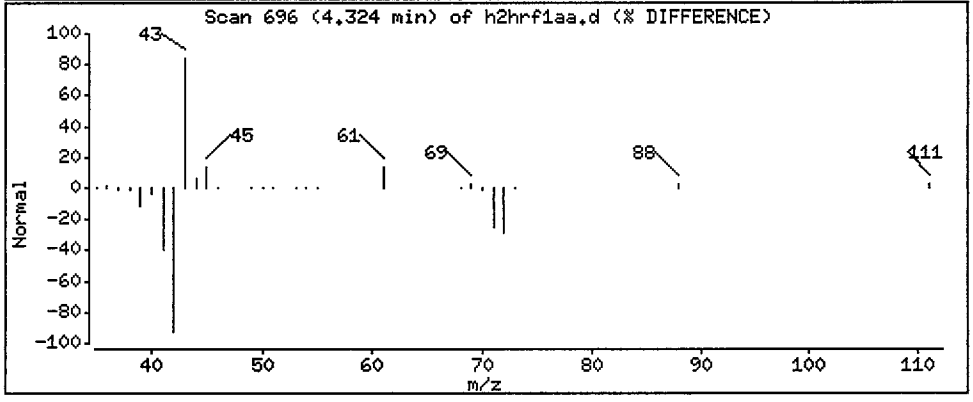












Data File: /chem/gcms/mz.i/Z040506.b/h2hrf1aa.d

Date : 06-APR-2006 00:03

Client ID: G-3078-R3-POTW DISC

Instrument: mz.i

Sample Info: H2HRF1AA,1,0,,

Purge Volume: 25.0

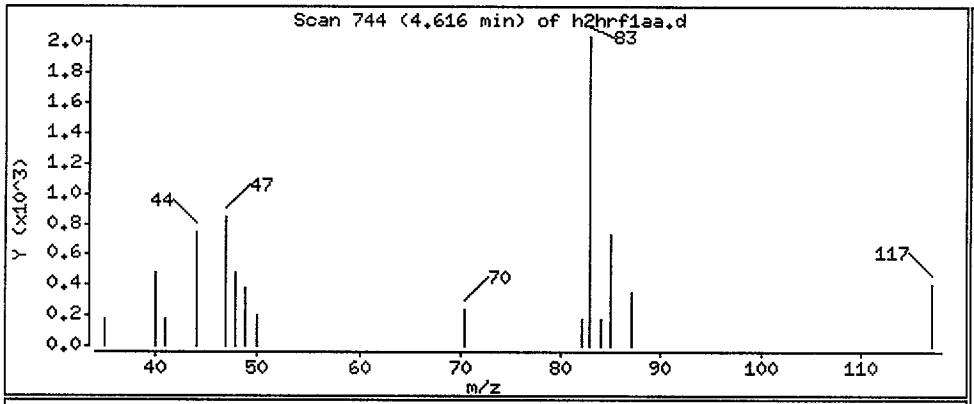
Operator: 063605

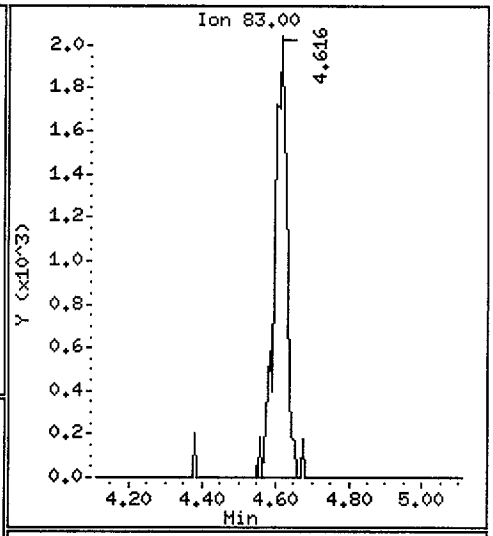
Column phase: J+W 624

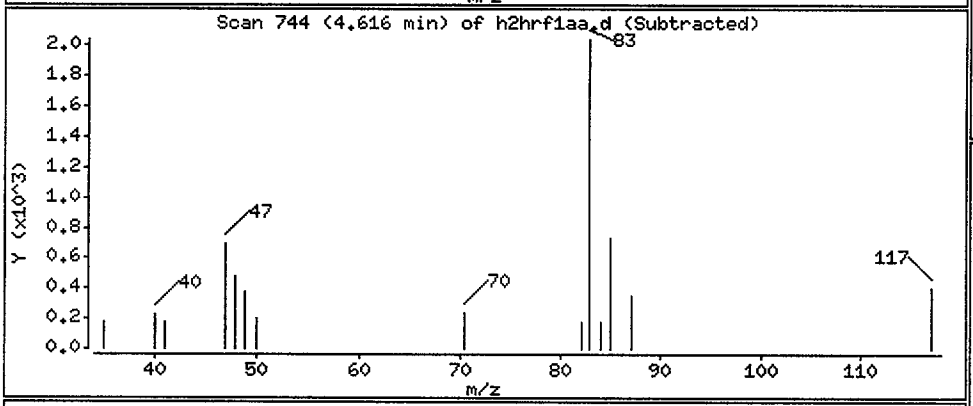
Column diameter: 0.18

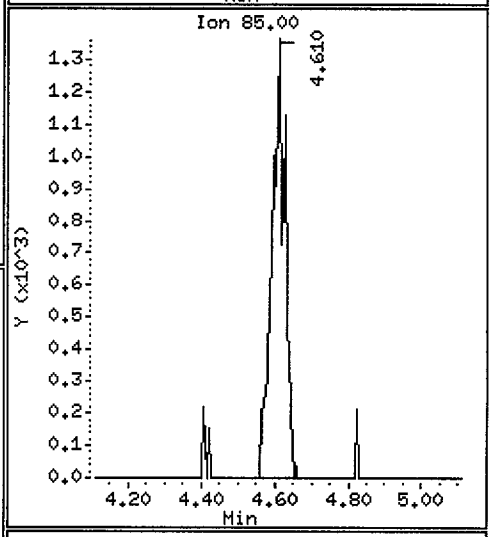
40 Chloroform (ccc)

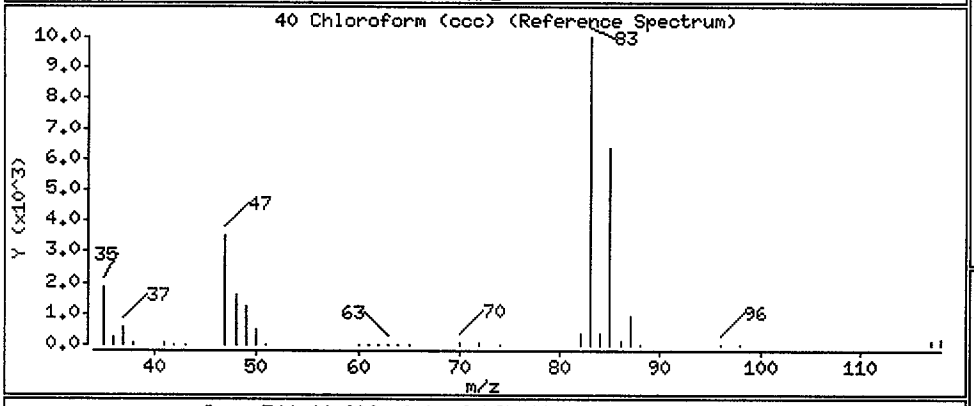
Concentration: 0.13696 ug/L

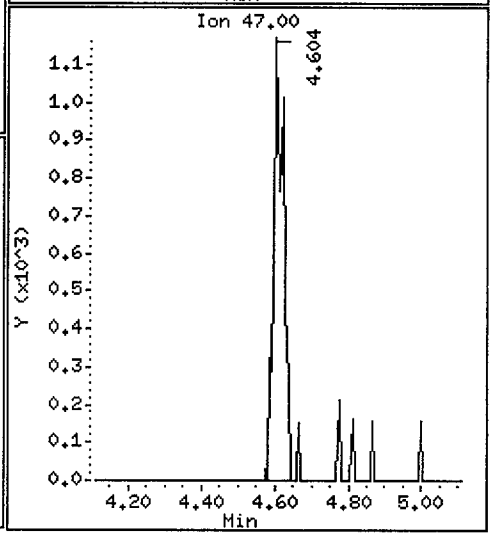


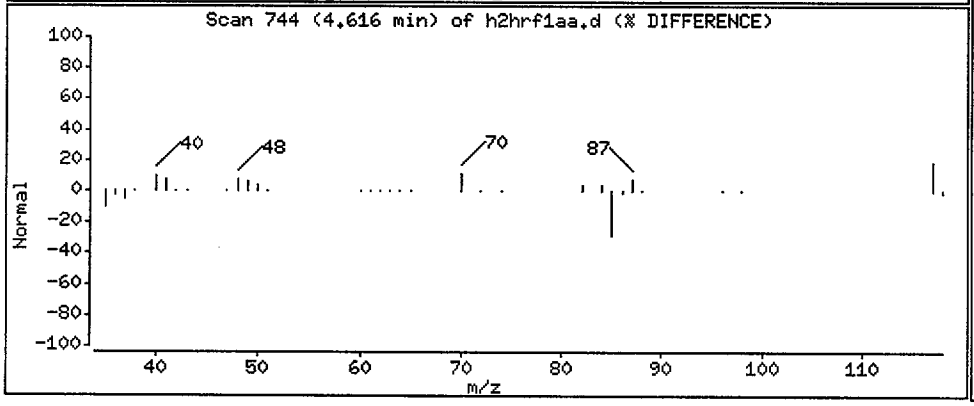












Data File: /chem/gcms/mz.i/Z040506.b/h2hrf1aa.d

Date : 06-APR-2006 00:03

Client ID: G-3078-R3-POTW DISC

Instrument: mz.i

Sample Info: H2HRF1AA,1,0,,

Purge Volume: 25.0

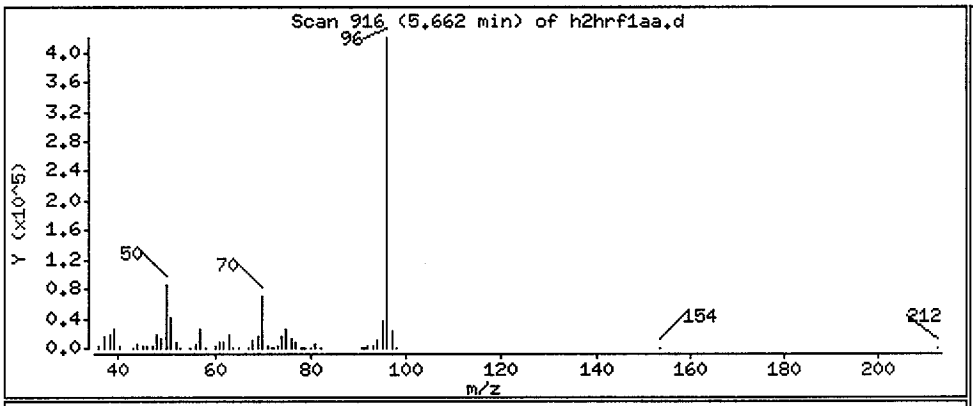
Operator: 063605

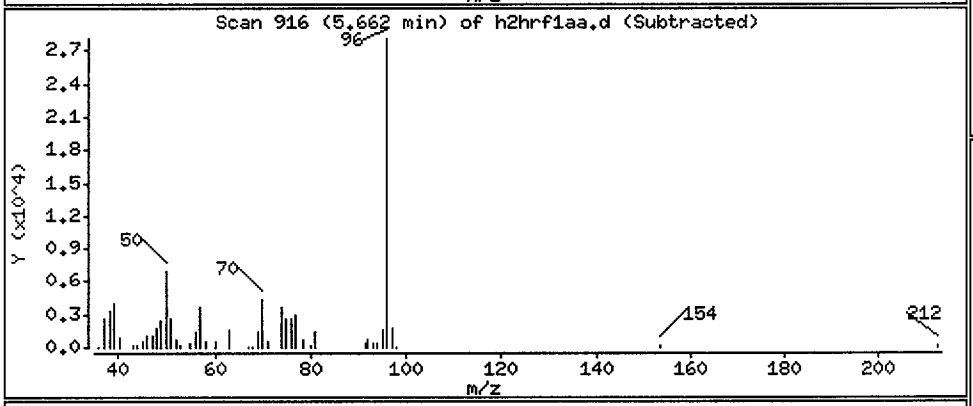
Column phase: J+W 624

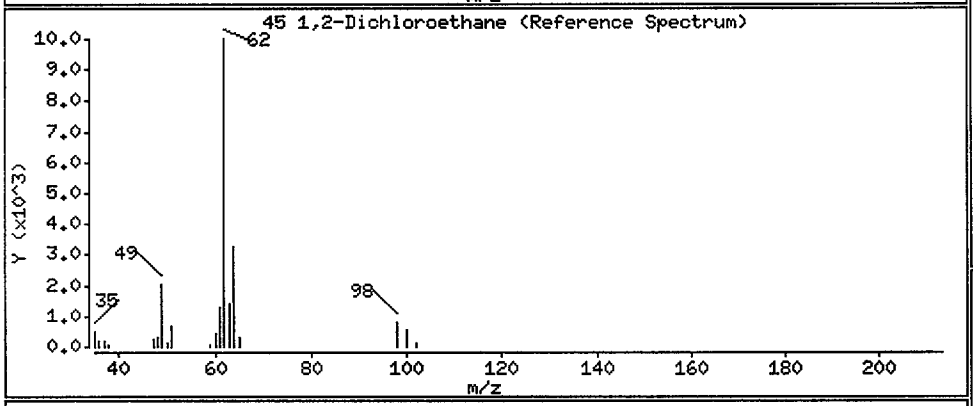
Column diameter: 0.18

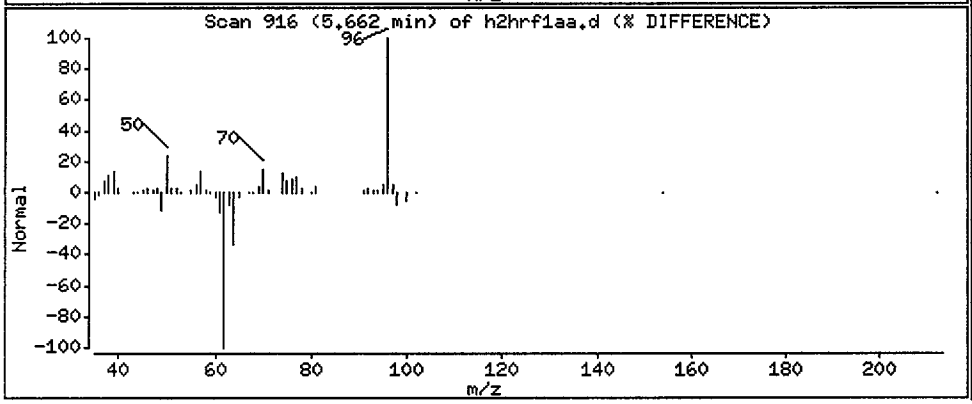
45 1,2-Dichloroethane

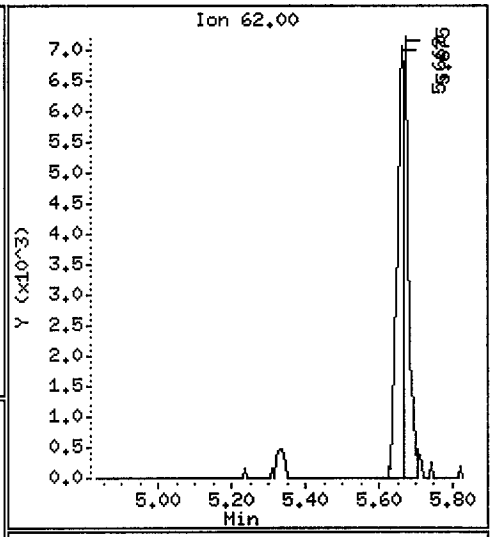
Concentration: 0.49112 ug/L

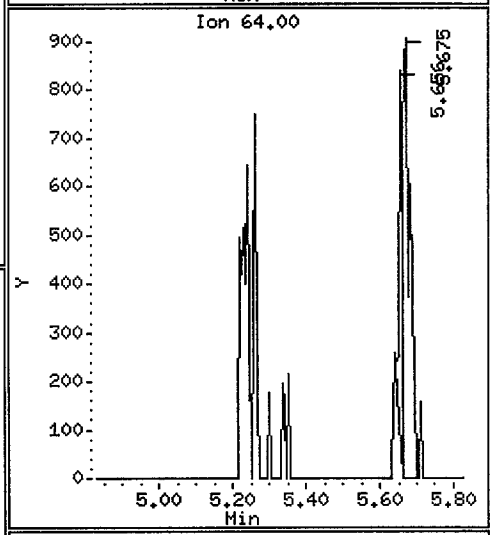


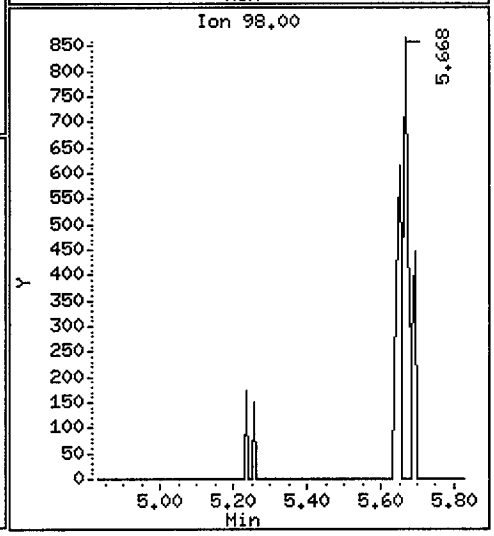












Data File: /chem/gcms/mz.i/Z040506.b/h2hrf1aa.d

Date : 06-APR-2006 00:03

Client ID: G-3078-R3-POTW DISC

Instrument: mz.i

Sample Info: H2HRF1AA,1,0,,

Purge Volume: 25.0

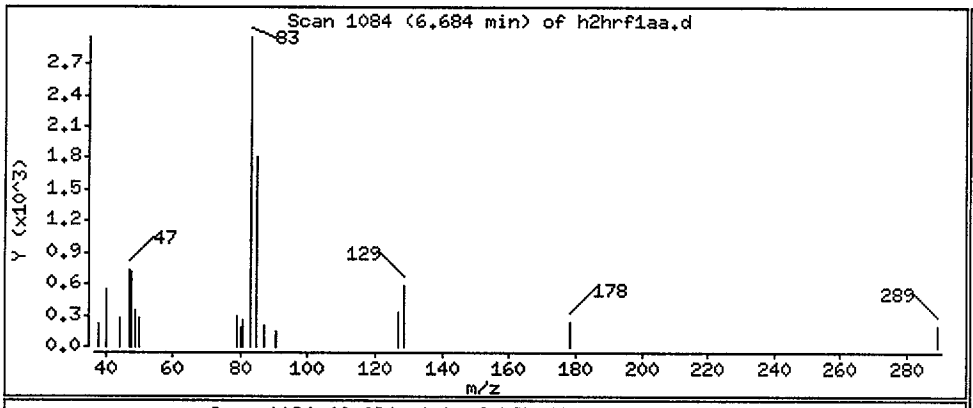
Operator: 063605

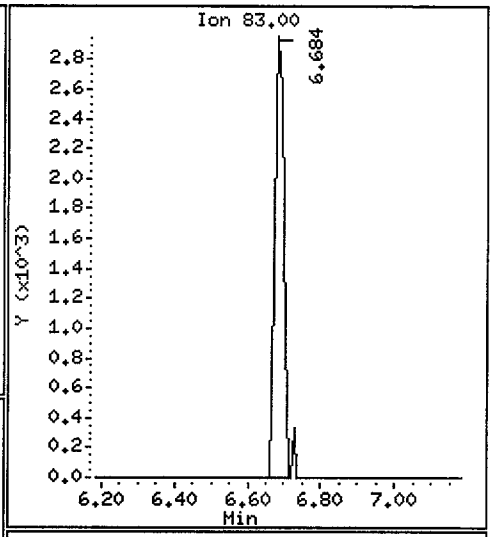
Column phase: J+W 624

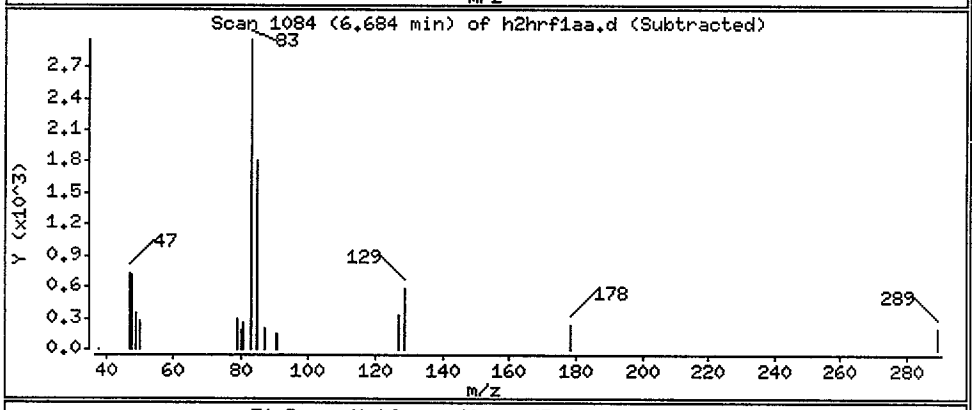
Column diameter: 0.18

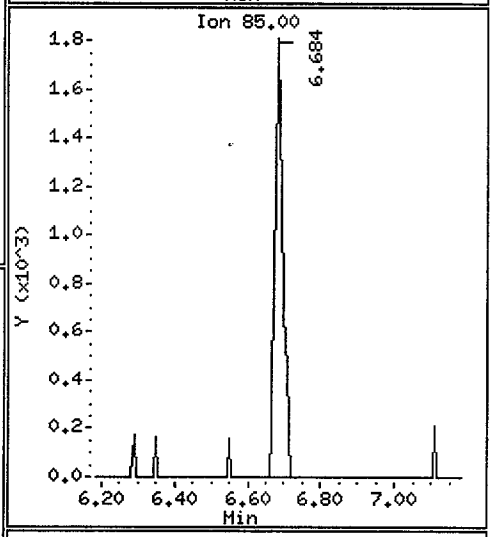
50 Bromodichloromethane

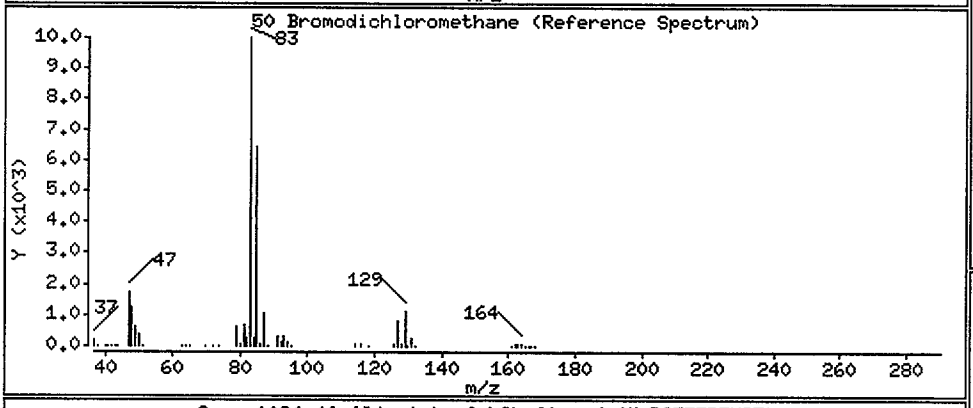
Concentration: 1.0017 ug/L

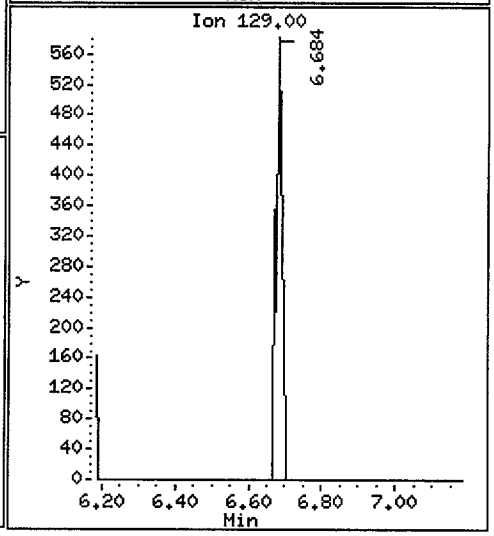


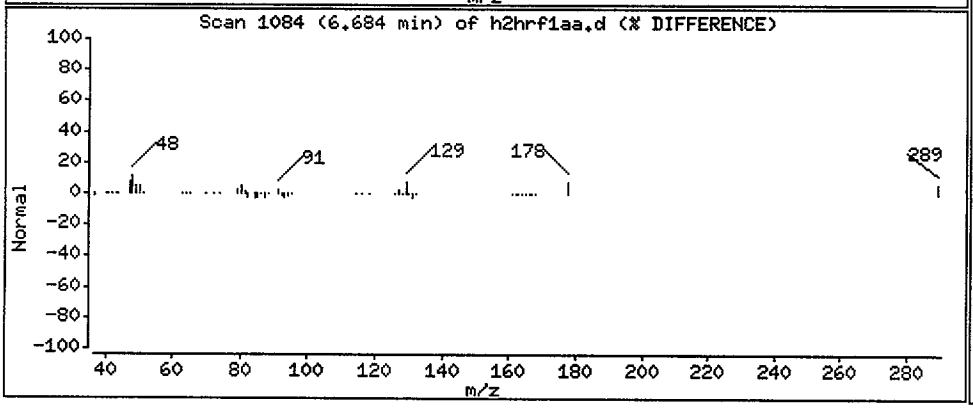












Data File: /chem/gcms/mz.i/Z040506.b/h2hrf1aa.d

Date : 06-APR-2006 00:03

Client ID: G-3078-R3-POTW DISC

Instrument: mz.i

Sample Info: H2HRF1AA,1,0,,

Purge Volume: 25.0

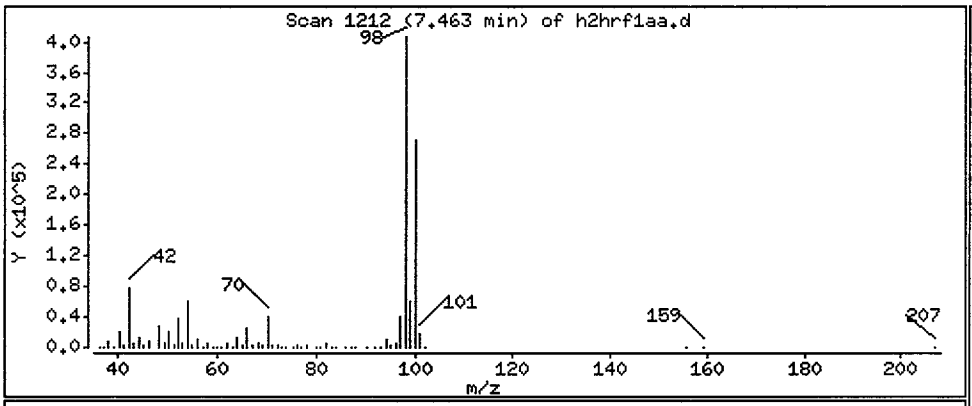
Operator: 063605

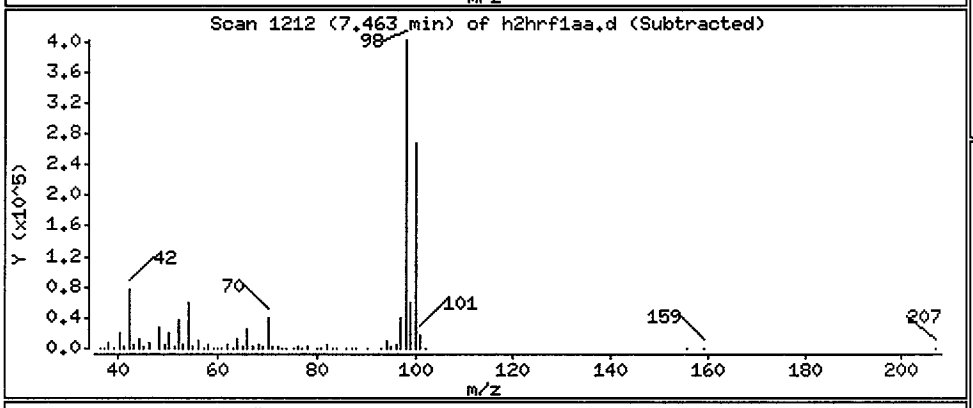
Column phase: J+W 624

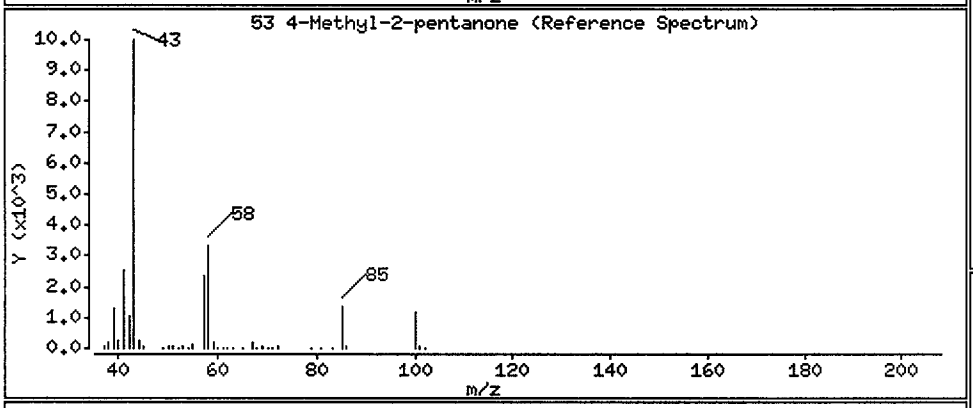
Column diameter: 0.18

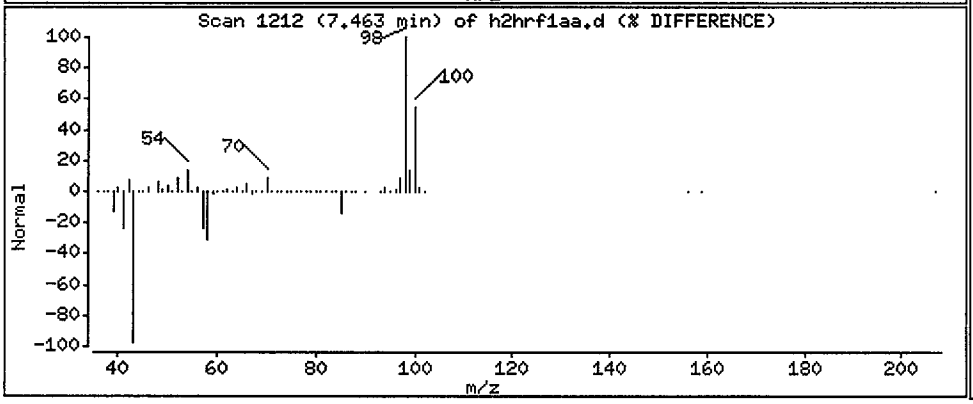
53 4-Methyl-2-pentanone

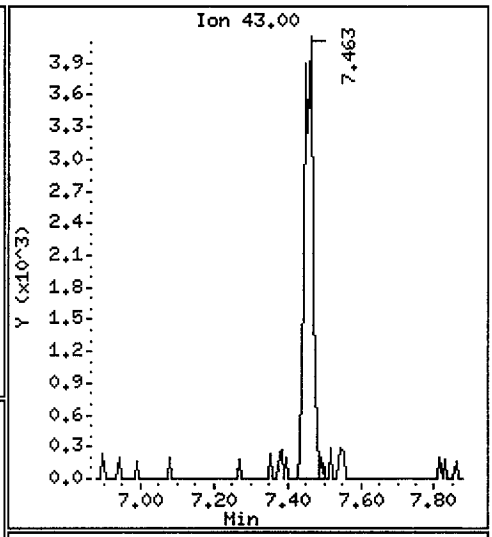
Concentration: 0.78020 ug/L

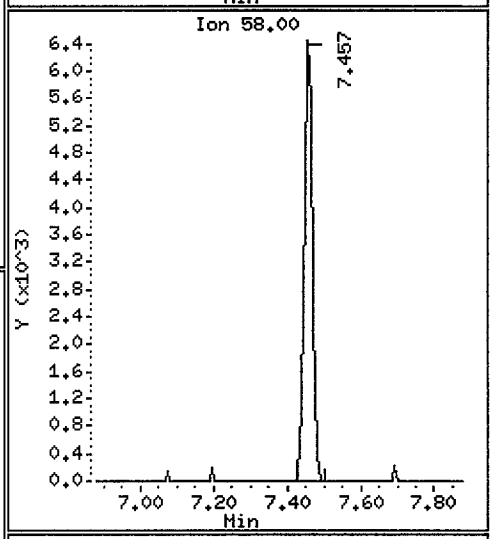


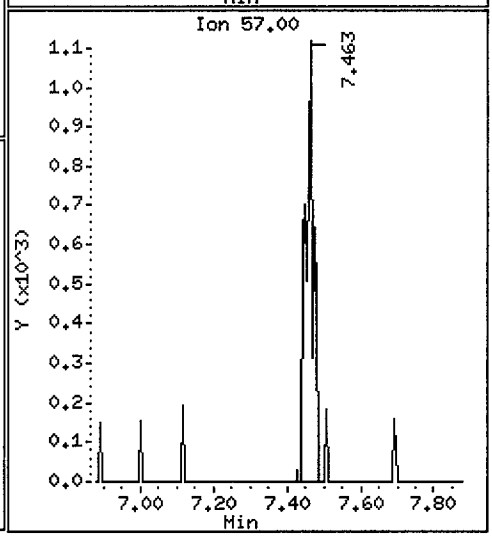












Data File: /chem/gcms/mz.i/Z040506.b/h2hrf1aa.d

Date : 06-APR-2006 00:03

Client ID: G-3078-R3-POTW DISC

Instrument: mz.i

Sample Info: H2HRF1AA,1,0,,

Purge Volume: 25.0

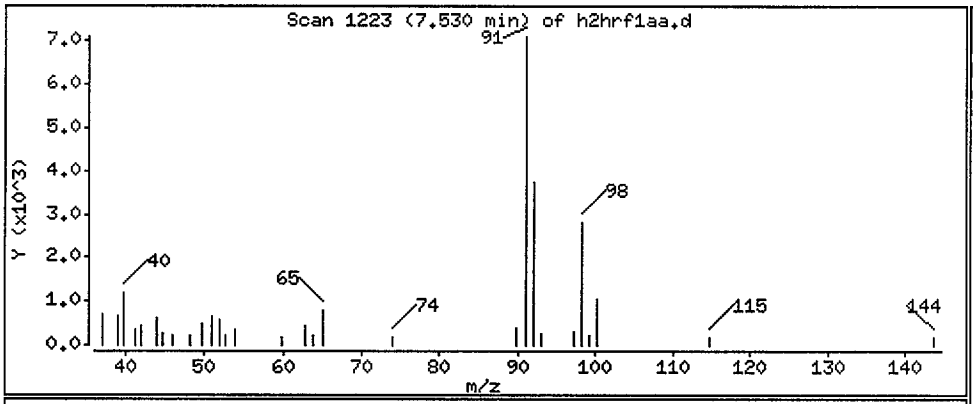
Operator: 063605

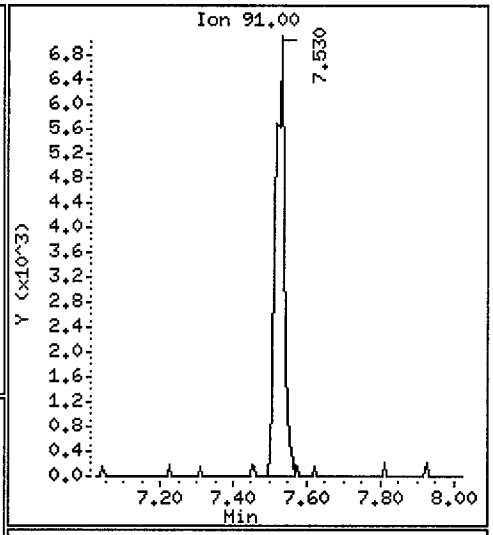
Column phase: J+W 624

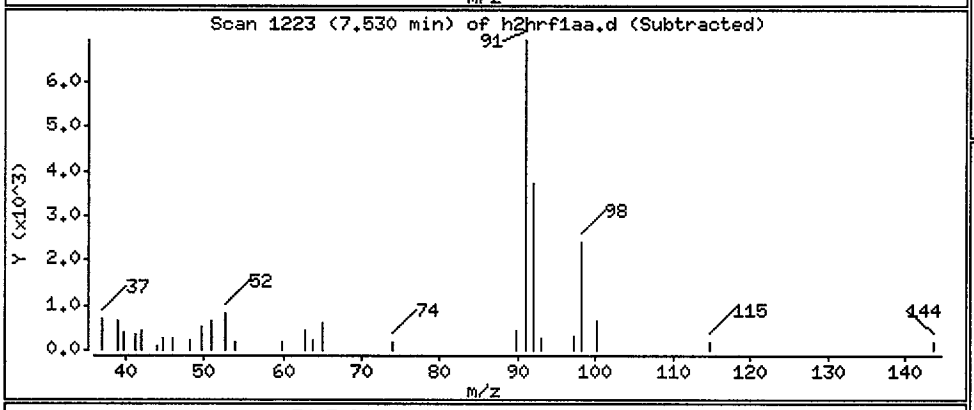
Column diameter: 0.18

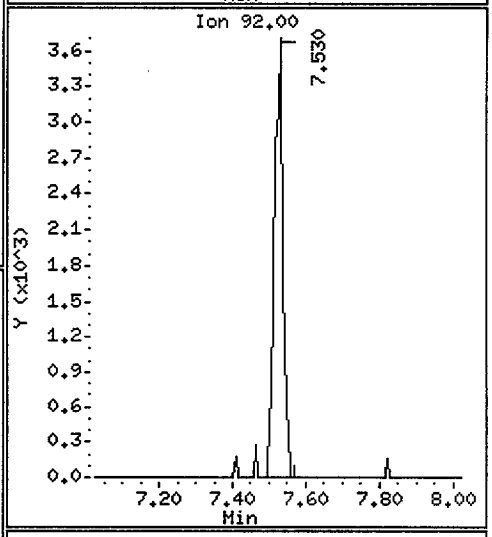
54 Toluene (ccc)

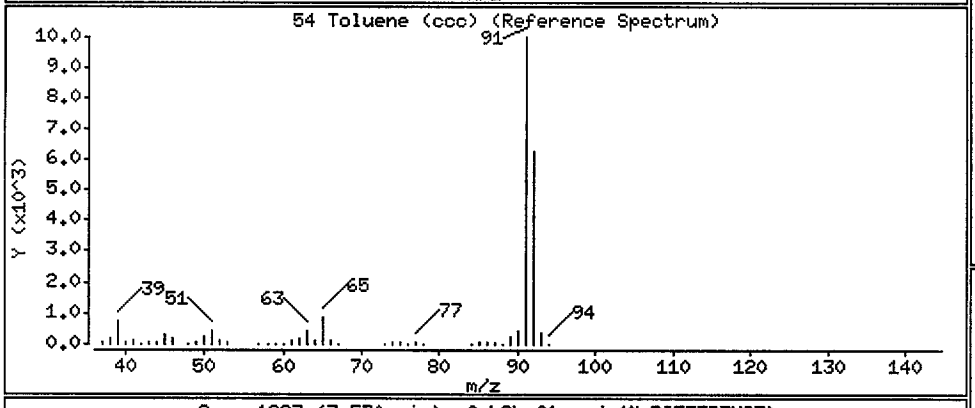
Concentration: 0.11883 ug/L

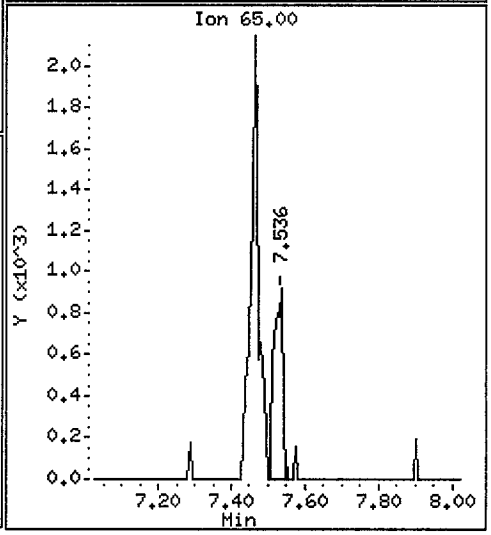


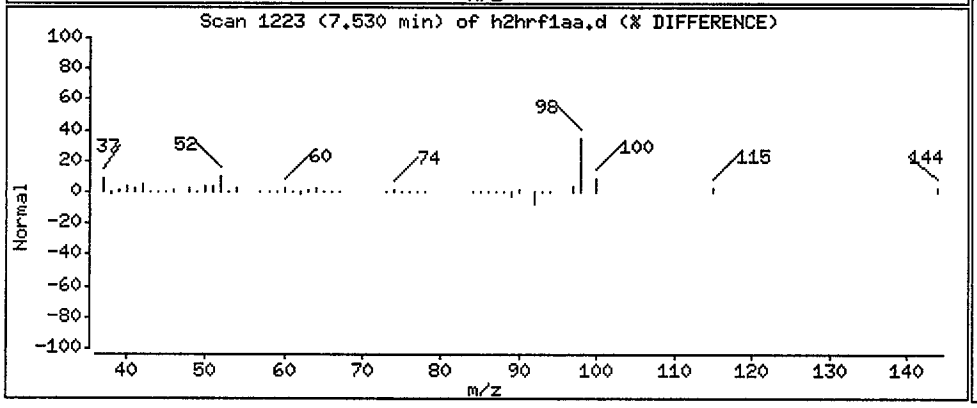












Data File: /chem/gcms/mz.i/Z040506.b/h2hrf1aa.d

Date : 06-APR-2006 00:03

Client ID: G-3078-R3-POTW DISC

Instrument: mz.i

Sample Info: H2HRF1AA,1,0,,

Purge Volume: 25.0

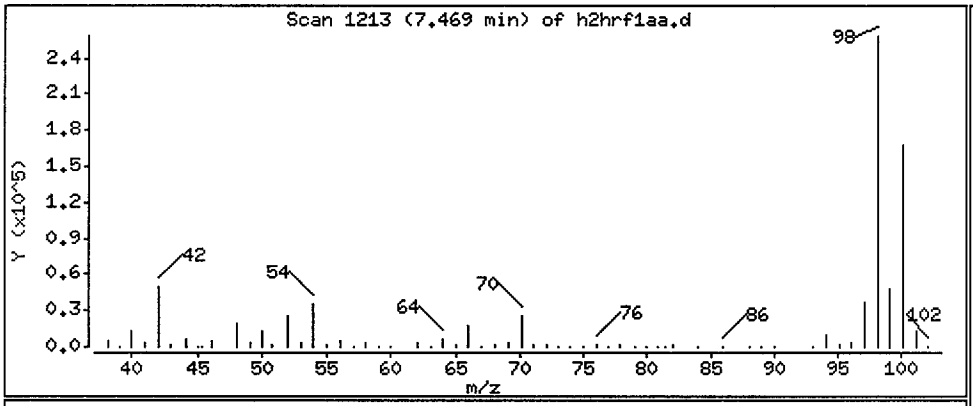
Operator: 063605

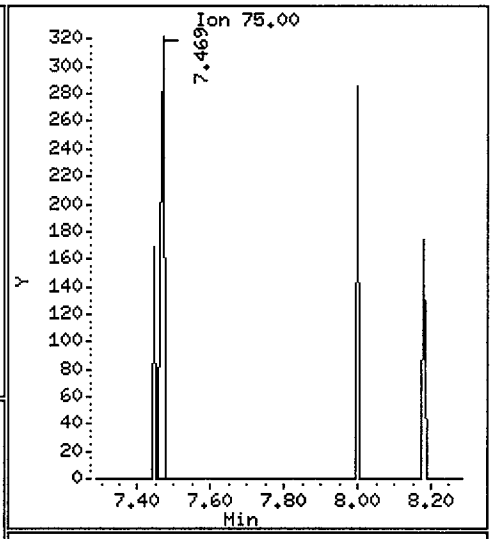
Column phase: J+W 624

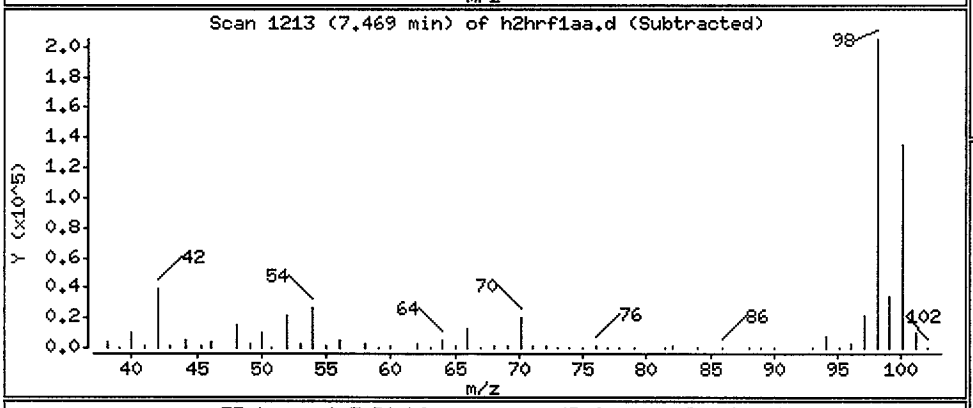
Column diameter: 0.18

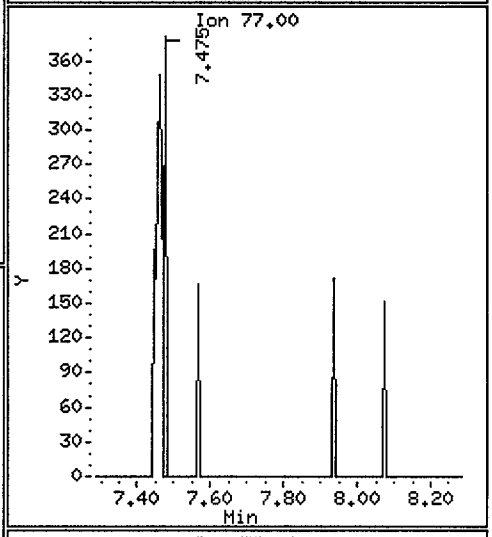
55 trans-1,3-Dichloropropene

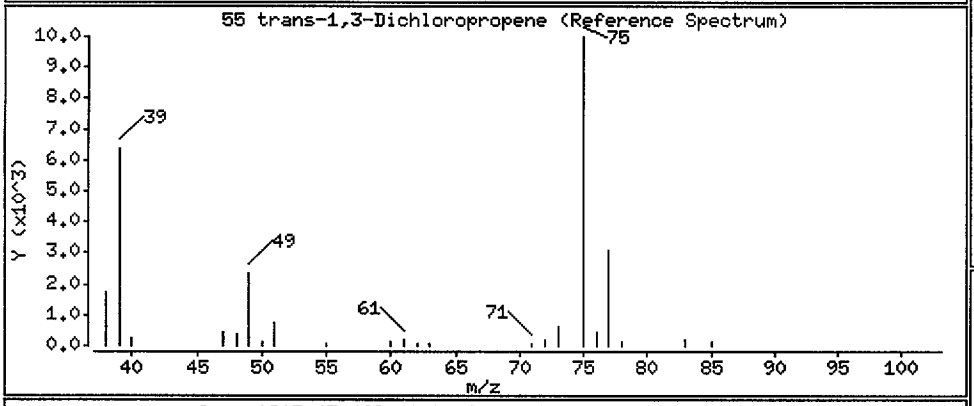
Concentration: 0.63653 ug/L

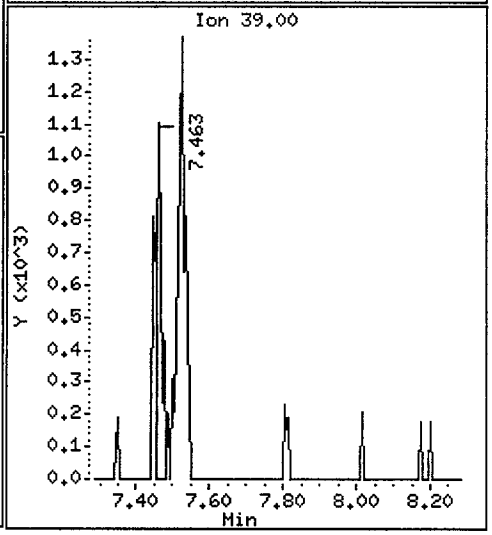


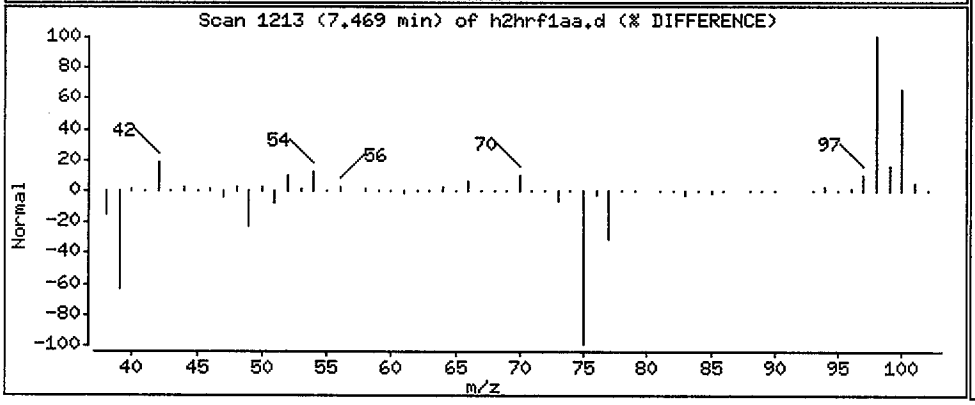












Data File: /chem/gcms/mz.i/Z040506.b/h2hrf1aa.d

Date : 06-APR-2006 00:03

Client ID: G-3078-R3-POTW DISC

Instrument: mz.i

Sample Info: H2HRF1AA,1,0,,

Purge Volume: 25.0

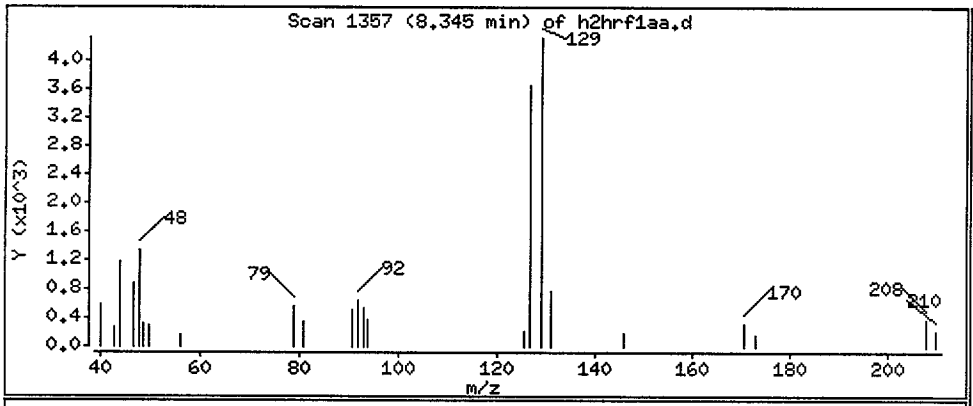
Operator: 063605

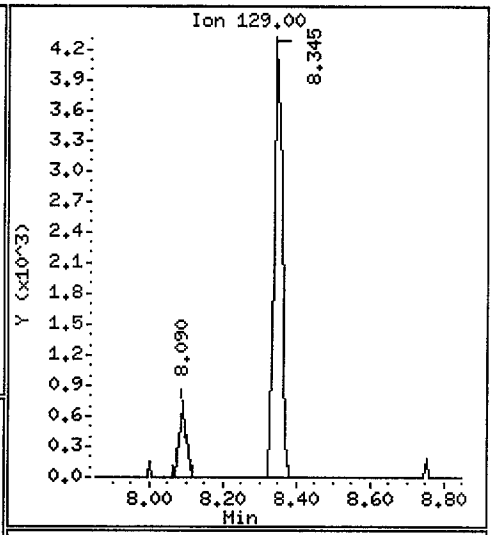
Column phase: J+W 624

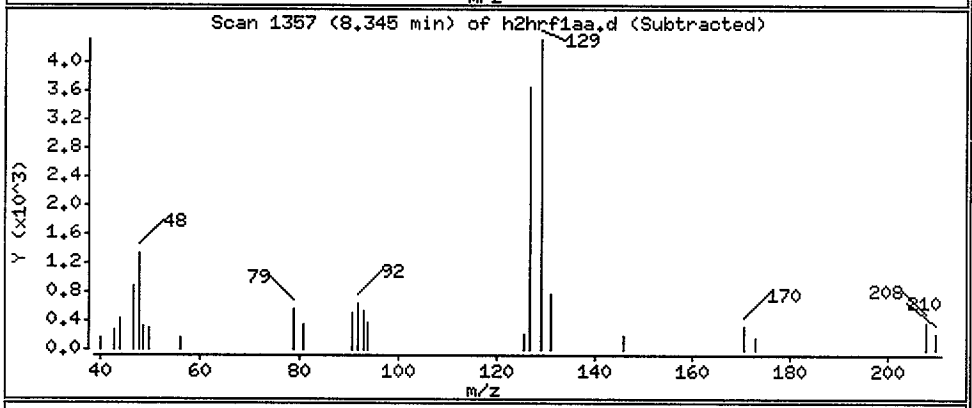
Column diameter: 0.18

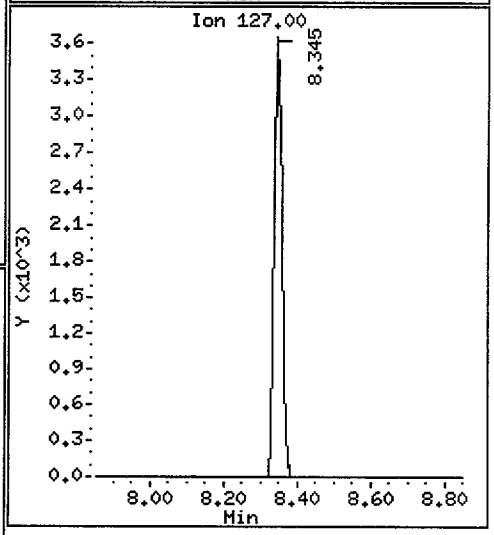
61 Chlorodibromomethane

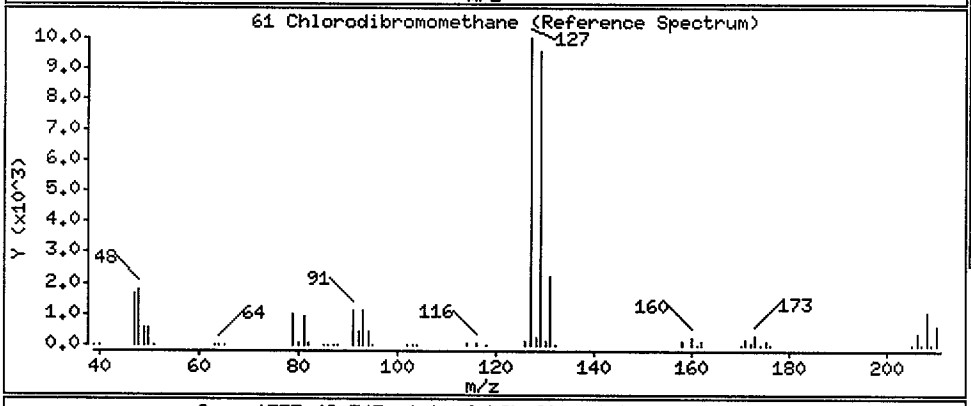
Concentration: 1.4320 ug/L

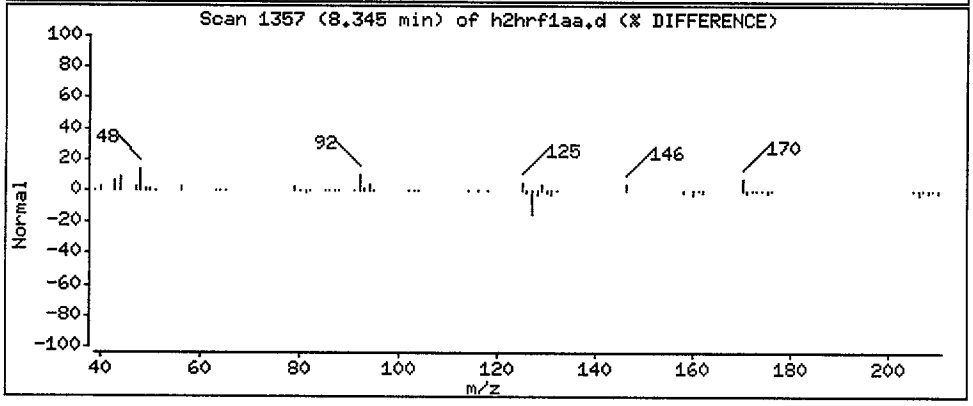












Data File: /chem/gcms/mz.i/Z040506.b/h2hrf1aa.d

Date : 06-APR-2006 00:03

Client ID: G-3078-R3-POTW DISC

Instrument: mz.i

Sample Info: H2HRF1AA,1,0,,

Purge Volume: 25.0

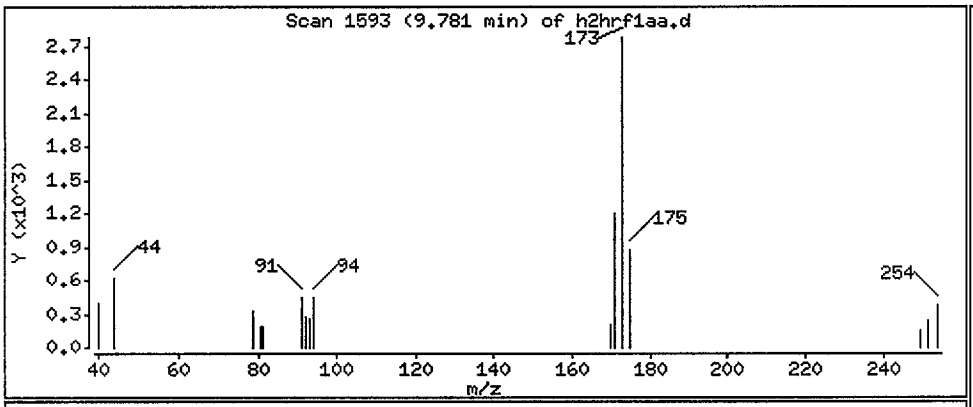
Operator: 063605

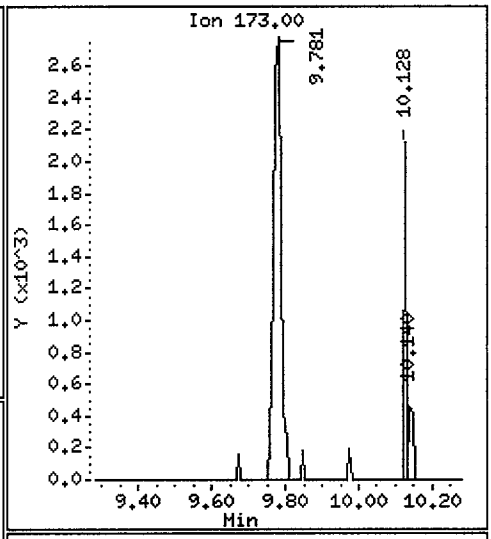
Column phase: J+W 624

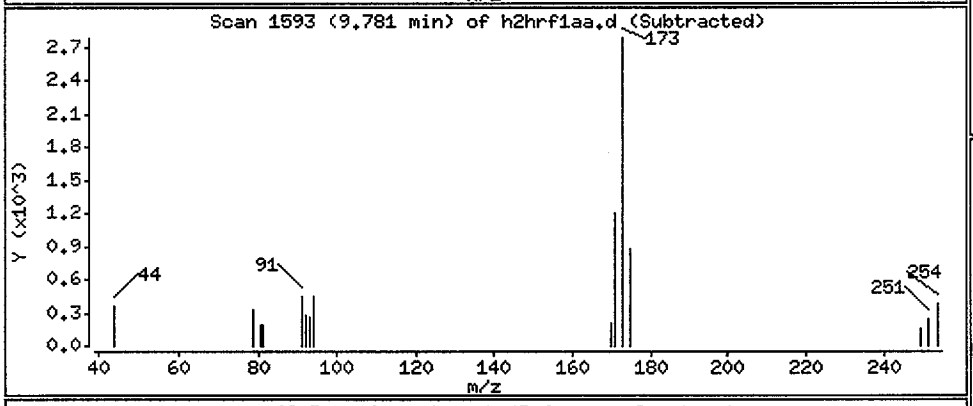
Column diameter: 0.18

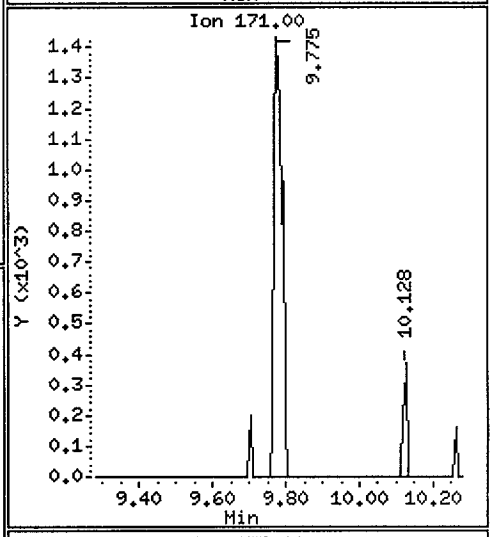
69 Bromoform (spcc)

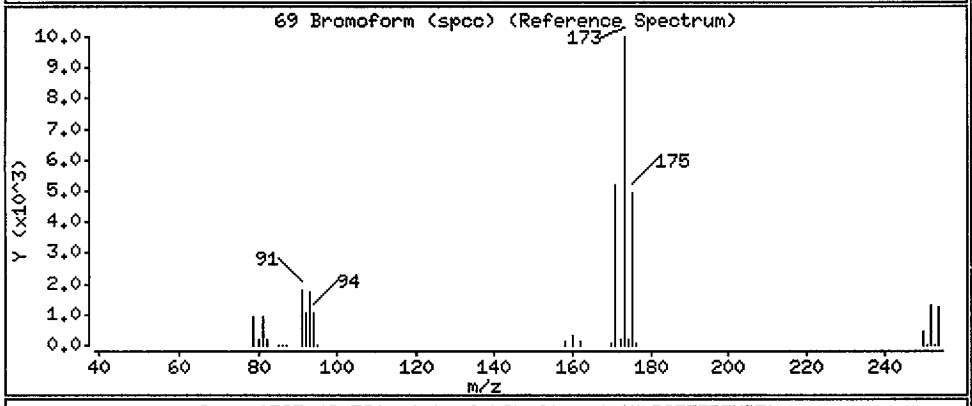
Concentration: 2.1388 ug/L

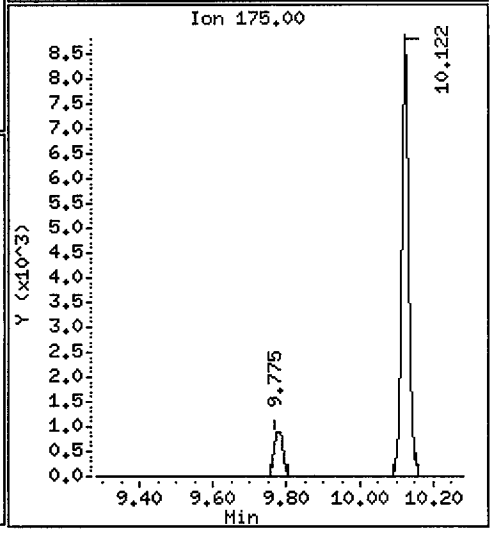


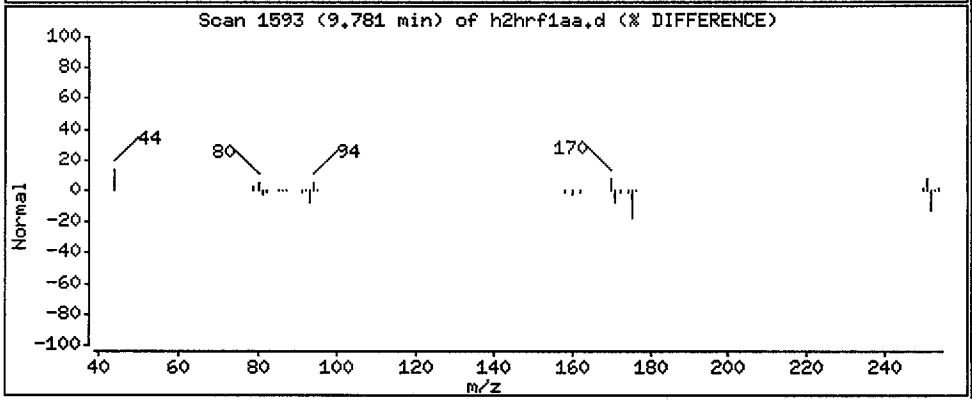












Data File: /var/chem/gcms/mz.i/Z040506.b/h2hrf1aa.d
Report Date: 07-Apr-2006 14:02

STL Knoxville

Volatile Organics by GC/MS

Data file : /var/chem/gcms/mz.i/Z040506.b/h2hrf1aa.d
Lab Smp Id: H2HRF1AA Client Smp ID: G-3078-R3-POTW DISC
Inj Date : 06-APR-2006 00:03
Operator : 063605 Inst ID: mz.i
Smp Info : H2HRF1AA,1,0,,
Misc Info : Z040506,8260B_LM,focus.sub
Comment : Volatile Organics by GC/MS
Method : /var/chem/gcms/mz.i/Z040506.b/8260B_LM.m
Meth Date : 06-Apr-2006 17:11 tillerm Quant Type: ISTD
Cal Date : 24-MAR-2006 13:51 Cal File: icvzc248.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: focus.sub
Target Version: 3.50
Processing Host: qmidhp01

Concentration Formula: Amt * DF * Uf*Vt/(Vo*1000) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Unit Correction factor
Vt	25000.00000	Sample Volume Purged
Vo	25.00000	Sample Volume Used

Cpnd Variable Local Compound Variable

ISTD	RT	HEIGHT	AMOUNT
* 1 Fluorobenzene	5.668	1019794	10.000

	CONCENTRATIONS				QUANT		
RT	HEIGHT	ON-COL(ug/L)	FINAL(ug/L)	QUAL	LIBRARY	LIB ENTRY	CPND #
Carbon dioxide			CAS #: 124-38-9				
0.911	3315254	32.5090558	32.509	5	NIST05.1	80	1

MT 4/7/06

Data File: /var/chem/gcms/mz.i/Z040506.b/h2hrf1aa.d

Date : 06-APR-2006 00:03

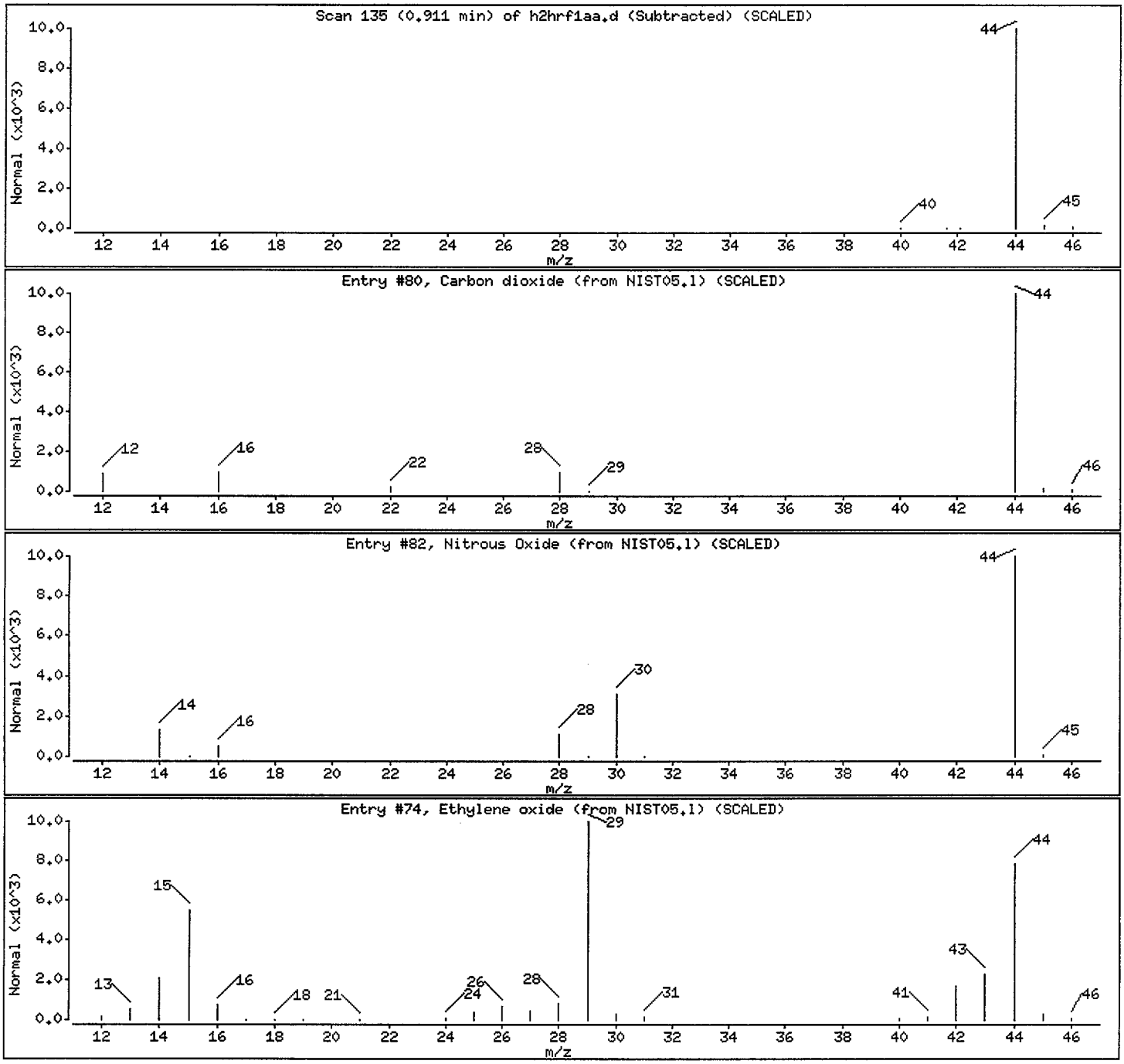
Client ID: G-3078-R3-POTW DISC Instrument: mz.i

Sample Info: H2HRF1AA,1,0,,

Purge Volume: 25.0 Operator: 063605

Column phase: J+W 624 Column diameter: 0.18

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Carbon dioxide	124-38-9	NIST05.l	80	5	CO2	44
Nitrous Oxide	10024-97-2	NIST05.l	82	3	N2O	44
Ethylene oxide	75-21-8	NIST05.l	74	2	C2H4O	44



STL Knoxville - ACS

Client Sample ID: G-3086-R3-MAKE-UP WATER

GC/MS Volatiles

Lot-Sample #...: H6D030205-013 **Work Order #...:** H2HRH1AA **Matrix.....:** WATER
Date Sampled...: 03/30/06 **Date Received..:** 04/02/06
Prep Date.....: 04/05/06 **Analysis Date..:** 04/06/06
Prep Batch #...: 6095253
Dilution Factor: 1 **Method.....:** SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	**4.5 J**	**10**	**ug/L**	**1.4**
Acrylonitrile	ND	20	ug/L	2.7
Benzene	ND	1.0	ug/L	0.10
Bromobenzene	ND	1.0	ug/L	0.11
Bromochloromethane	ND	1.0	ug/L	0.24
Bromodichloromethane	**2.5**	**1.0**	**ug/L**	**0.10**
Bromoform	**28**	**1.0**	**ug/L**	**0.14**
Bromomethane	ND	2.0	ug/L	0.38
2-Butanone	ND	5.0	ug/L	0.75
n-Butylbenzene	ND	1.0	ug/L	0.10
sec-Butylbenzene	ND	1.0	ug/L	0.10
tert-Butylbenzene	ND	1.0	ug/L	0.24
Carbon disulfide	ND	1.0	ug/L	0.10
Carbon tetrachloride	ND	1.0	ug/L	0.12
Chlorobenzene	ND	1.0	ug/L	0.10
Chlorodibromomethane	**8.9**	**1.0**	**ug/L**	**0.20**
Chloroethane	ND	2.0	ug/L	0.24
Chloroform	**0.62 J**	**1.0**	**ug/L**	**0.10**
Chloromethane	ND	2.0	ug/L	0.12
2-Chlorotoluene	ND	1.0	ug/L	0.24
4-Chlorotoluene	ND	1.0	ug/L	0.21
1,2-Dibromo-3-chloro-propane	ND	2.0	ug/L	0.45
1,2-Dibromoethane	ND	1.0	ug/L	0.24
Dibromomethane	ND	1.0	ug/L	0.21
1,2-Dichlorobenzene	ND	1.0	ug/L	0.10
1,3-Dichlorobenzene	ND	1.0	ug/L	0.10
1,4-Dichlorobenzene	ND	1.0	ug/L	0.12
Dichlorodifluoromethane	ND	2.0	ug/L	0.15
1,1-Dichloroethane	ND	1.0	ug/L	0.10
1,2-Dichloroethane	**0.12 J**	**1.0**	**ug/L**	**0.10**
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.12
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.10
1,1-Dichloroethene	ND	1.0	ug/L	0.10
1,2-Dichloropropane	ND	1.0	ug/L	0.10
1,3-Dichloropropane	ND	1.0	ug/L	0.17
2,2-Dichloropropane	ND	1.0	ug/L	0.11
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.10
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.11

(Continued on next page)

STL Knoxville - ACS

Client Sample ID: G-3086-R3-MAKE-UP WATER

GC/MS Volatiles

Lot-Sample #...: H6D030205-013 Work Order #...: H2HRH1AA Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1-Dichloropropene	ND	1.0	ug/L	0.10
Ethylbenzene	ND	1.0	ug/L	0.10
Hexachlorobutadiene	ND	2.0	ug/L	0.12
2-Hexanone	ND	5.0	ug/L	0.76
Iodomethane	ND	2.0	ug/L	0.12
Isopropylbenzene	ND	1.0	ug/L	0.10
p-Isopropyltoluene	ND	1.0	ug/L	0.10
Methylene chloride	**2.0**	**2.0**	**ug/L**	**0.23**
4-Methyl-2-pentanone	ND	5.0	ug/L	0.40
Naphthalene	ND	1.0	ug/L	0.17
n-Propylbenzene	ND	1.0	ug/L	0.10
Styrene	ND	1.0	ug/L	0.10
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	0.12
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.15
Tetrachloroethene	**0.45 J**	**1.0**	**ug/L**	**0.10**
Tetrahydrofuran	ND	4.0	ug/L	1.2
Toluene	**0.31 J**	**1.0**	**ug/L**	**0.10**
1,2,3-Trichlorobenzene	ND	1.0	ug/L	0.23
1,2,4-Trichloro-benzene	ND	1.0	ug/L	0.15
1,1,1-Trichloroethane	ND	1.0	ug/L	0.10
1,1,2-Trichloroethane	ND	1.0	ug/L	0.25
Trichloroethene	ND	1.0	ug/L	0.10
Trichlorofluoromethane	ND	2.0	ug/L	0.12
1,2,3-Trichloropropane	ND	1.0	ug/L	0.36
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	1.0	ug/L	0.13
1,2,4-Trimethylbenzene	ND	1.0	ug/L	0.11
1,3,5-Trimethylbenzene	ND	1.0	ug/L	0.10
Vinyl acetate	ND	2.0	ug/L	0.24
Vinyl chloride	ND	1.0	ug/L	0.24
m-Xylene & p-Xylene	ND	1.0	ug/L	0.20
o-Xylene	ND	1.0	ug/L	0.14
Xylenes (total)	ND	1.0	ug/L	0.30

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	110	(79 - 120)
1,2-Dichloroethane-d4	107	(71 - 127)
Toluene-d8	102	(80 - 120)
Bromofluorobenzene	96	(69 - 126)

NOTE(S):

J Estimated result. Result is less than RL.

STL Knoxville - ACS

G-3086-R3-MAKE-UP WATER

GC/MS Volatiles

Lot-Sample #: H6D030205-013 **Work Order #:** H2HRH1AA **Matrix:** WATER

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT	RETENTION TIME	UNITS
None				ug/L

Data File: /var/chem/gcms/mz.i/Z040506.b/h2hrh1aa.d
Report Date: 07-Apr-2006 14:04

STL Knoxville

Volatile Organics by GC/MS

Data file : /var/chem/gcms/mz.i/Z040506.b/h2hrh1aa.d
Lab Smp Id: H2HRH1AA Client Smp ID: G-3086-R3-MAKE-UP W
Inj Date : 06-APR-2006 00:27
Operator : 063605 Inst ID: mz.i
Smp Info : H2HRH1AA,1,0,,
Misc Info : Z040506,8260B_LM,focus.sub
Comment : Volatile Organics by GC/MS
Method : /var/chem/gcms/mz.i/Z040506.b/8260B_LM.m
Meth Date : 06-Apr-2006 17:11 tillerm Quant Type: ISTD
Cal Date : 24-MAR-2006 13:51 Cal File: icvzc248.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: focus.sub
Target Version: 3.50
Processing Host: qmidhp01

Concentration Formula: Amt * DF * Uf*Vt/(Vo*1000) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Unit Correction factor
Vt	25000.00000	Sample Volume Purged
Vo	25.00000	Sample Volume Used

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)
* 1 Fluorobenzene	96	5.666	5.667	(1.000)	830629	10.0000	
* 2 Chlorobenzene-d5	119	8.933	8.933	(1.000)	151065	10.0000	
* 3 1,4 Dichlorobenzene-d4	152	11.488	11.488	(1.000)	189460	10.0000	
$ 5 1,2-Dichloroethane-d4	65	5.228	5.229	(0.923)	123524	10.7324	10.732
$ 4 Dibromofluoromethane	113	4.826	4.821	(0.852)	145879	10.9604	10.960
$ 6 Toluene-d8	98	7.454	7.455	(0.834)	675164	10.1719	10.172
$ 7 4-Bromofluorobenzene	95	10.125	10.126	(0.881)	183708	9.61464	9.6146
22 Acetone	43	2.125	2.126	(0.375)	6021	4.50599	4.5060(MH)
27 Methylene Chloride	84	2.509	2.503	(0.443)	27577	1.98513	1.9851
40 Chloroform (ccc)	83	4.607	4.608	(0.813)	18572	0.61882	0.61882
45 1,2-Dichloroethane	62	5.331	5.326	(0.941)	2028	0.11692	0.11692
50 Bromodichloromethane	83	6.688	6.683	(1.180)	28076	2.54076	2.5408
54 Toluene (ccc)	91	7.527	7.522	(0.843)	26859	0.31242	0.31242
58 Tetrachloroethene	164	8.087	8.094	(0.905)	8014	0.44942	0.44942

Data File: /var/chem/gcms/mz.i/Z040506.b/h2hrh1aa.d
Report Date: 07-Apr-2006 14:04

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
61 Chlorodibromomethane	129	8.349	8.349	(0.935)	64452	8.87305	8.8730
69 Bromoform (spcc)	173	9.778	9.779	(1.095)	76244	27.9798	27.980

QC Flag Legend

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

Data File: /chem/gcms/mz.i/Z040506.b/h2hrh1aa.d
Report Date: 06-Apr-2006 00:45

STL Knoxville

Volatile Organics by GC/MS

Data file : /chem/gcms/mz.i/Z040506.b/h2hrh1aa.d
Lab Smp Id: H2HRH1AA Client Smp ID: G-3086-R3-MAKE-UP W
Inj Date : 06-APR-2006 00:27
Operator : 063605 Inst ID: mz.i
Smp Info : H2HRH1AA,1,0,,
Misc Info : Z040506,8260B_LM,focus.sub
Comment : Volatile Organics by GC/MS
Method : /var/chem/gcms/mz.i/Z040506.b/8260B_LM.m
Meth Date : 05-Apr-2006 15:47 tillerm Quant Type: ISTD
Cal Date : 24-MAR-2006 13:51 Cal File: icvzc248.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: focus.sub
Target Version: 3.50
Processing Host: qmidhp01

Concentration Formula: Amt * DF * Uf*Vt/(Vo*1000) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Unit Correction factor
Vt	25000.00000	Sample Volume Purged
Vo	25.00000	Sample Volume Used

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
*	1 Fluorobenzene	96	5.666	5.667	(1.000)	830629	10.0000	
*	2 Chlorobenzene-d5	119	8.933	8.933	(1.000)	151065	10.0000	
*	3 1,4 Dichlorobenzene-d4	152	11.488	11.488	(1.000)	189460	10.0000	
$	5 1,2-Dichloroethane-d4	65	5.228	5.229	(0.923)	123524	10.7324	10.732
$	4 Dibromofluoromethane	113	4.826	4.821	(0.852)	145879	10.9604	10.960
$	6 Toluene-d8	98	7.454	7.455	(0.834)	675164	10.1719	10.172
$	7 4-Bromofluorobenzene	95	10.125	10.126	(0.881)	183708	9.61463	9.6146
	22 Acetone	43	2.125	2.126	(0.375)	3631	3.98158	3.9816
	23 *Iodomethane	142	2.192	2.181	(0.387)	456	~~0.54332~~	~~0.54332~~
	27 Methylene Chloride	84	2.509	2.503	(0.443)	27577	1.98518	1.9852
	39 *THF	42	4.327	4.529	(0.764)	1128	~~0.57284~~	~~0.57284~~
	40 Chloroform (ccc)	83	4.607	4.608	(0.813)	18572	0.61884	0.61884
	45 1,2-Dichloroethane	62	5.331	5.326	(0.941)	2028	0.11696	0.11696
	50 Bromodichloromethane	83	6.688	6.683	(1.180)	28076	2.54082	2.5408

4/7/06

Data File: /chem/gcms/mz.i/Z040506.b/h2hrh1aa.d
Report Date: 06-Apr-2006 00:45

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)
53 4-Methyl-2-pentanone	43	7.467	7.376	(1.318)	5738	~~0.79117~~	~~0.79117~~
54 Toluene (ccc)	91	7.527	7.522	(0.843)	26859	0.31242	0.31242
55 trans-1,3-Dichloropropene	75	7.509	7.784	(0.841)	143	~~0.63570~~	~~0.63570~~
58 Tetrachloroethene	164	8.087	8.094	(0.905)	8014	0.44945	0.44945
61 Chlorodibromomethane	129	8.349	8.349	(0.935)	64452	8.87310	8.8731
69 Bromoform (spcc)	173	9.778	9.779	(1.095)	76244	27.9799	27.980

Data File: /chem/gcms/mz.i/Z040506.b/h2hrh1aa.d
Report Date: 06-Apr-2006 00:45

STL Knoxville

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: mz.i
Lab File ID: h2hrh1aa.d
Lab Smp Id: H2HRH1AA
Analysis Type: VOA
Quant Type: ISTD
Operator: 063605
Calibration Date: 05-APR-2006
Calibration Time: 14:42
Client Smp ID: G-3086-R3-MAKE-UP W
Level: LOW
Sample Type: WATER
Method File: /var/chem/gcms/mz.i/Z040506.b/8260B_LM.m
Misc Info: Z040506,8260B_LM,focus.sub

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	1078707	539354	2157414	830629	-23.00
2 Chlorobenzene-d5	188899	94450	377798	151065	-20.03
3 1,4 Dichlorobenze	220143	110072	440286	189460	-13.94

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	5.67	5.17	6.17	5.67	-0.01
2 Chlorobenzene-d5	8.93	8.43	9.43	8.93	-0.01
3 1,4 Dichlorobenze	11.49	10.99	11.99	11.49	-0.01

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

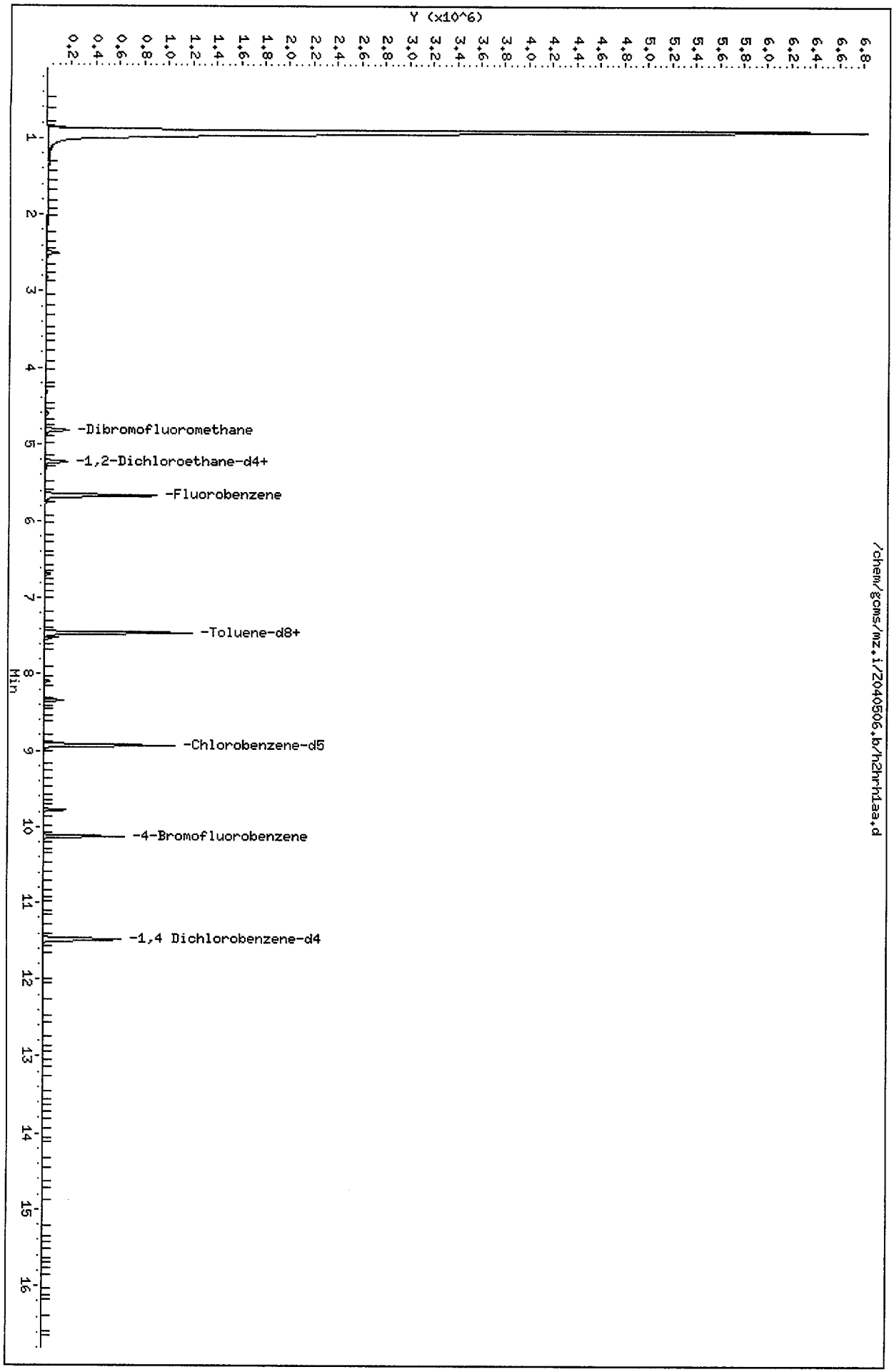
Data File: /chem/gcms/mz.i/Z040506.b/h2hrh1aa.d
Report Date: 06-Apr-2006 00:45

STL Knoxville

RECOVERY REPORT

Client Name: STL Knoxville - ACS
Client SDG: H6D030205
Sample Matrix: LIQUID
Fraction: VOA
Lab Smp Id: H2HRH1AA
Client Smp ID: G-3086-R3-MAKE-UP W
Level: LOW
Operator: 063605
Data Type: MS DATA
SampleType: SAMPLE
SpikeList File: allcmpds.spk
Quant Type: ISTD
Sublist File: focus.sub
Method File: /var/chem/gcms/mz.i/Z040506.b/8260B_LM.m
Misc Info: Z040506,8260B_LM,focus.sub

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
$ 5 1,2-Dichloroethane	10.000	10.732	107.32	71-127
$ 4 Dibromofluorometha	10.000	10.960	109.60	79-120
$ 6 Toluene-d8	10.000	10.172	101.72	80-120
$ 7 4-Bromofluorobenze	10.000	9.6146	96.15	69-126


Data File: /chem/gcms/mz.i/Z040506.b/h2hrh1aa.d
Date : 06-APR-2006 00:27
Client ID: G-3086-R3-MAKE-UP W
Sample Info: H2HRH1AA,1.0,,
Purge Volume: 25.0
Column phase: J+W 624
Instrument: mz.i
Operator: 063005
Column diameter: 0.18
/chem/gcms/mz.i/Z040506.b/h2hrh1aa.d
Y (x10^6)
Min
-Dibromofluoromethane
-1,2-Dichloroethane-d4+
-Fluorobenzene
-Toluene-d8+
-Chlorobenzene-d5
-4-Bromofluorobenzene
-1,4 Dichlorobenzene-d4

Data File: /var/chem/gcms/mz.i/Z040506.b/h2hrh1aa.d

Date : 06-APR-2006 00:27

Client ID: G-3086-R3-MAKE-UP W

Instrument: mz.i

Sample Info: H2HRH1AA,1,0,,

Purge Volume: 25.0

Operator: 063605

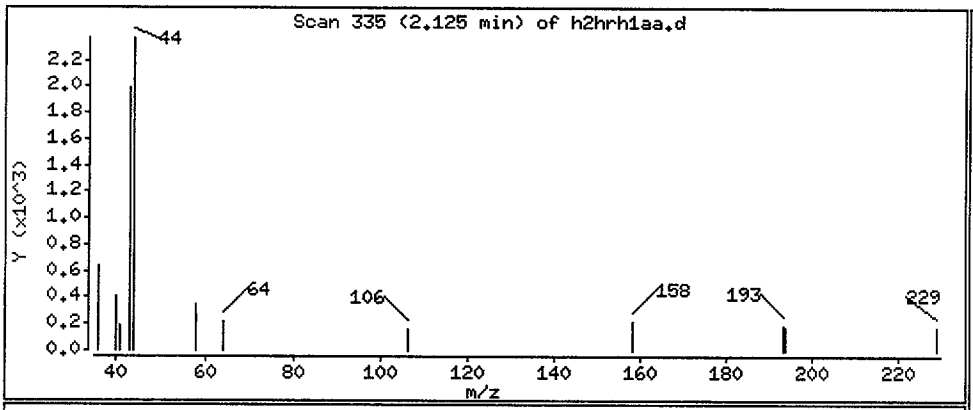
Column phase: J+W 624

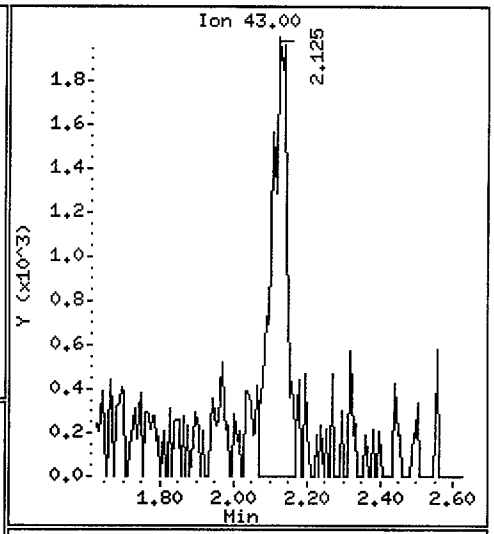
Column diameter: 0.18

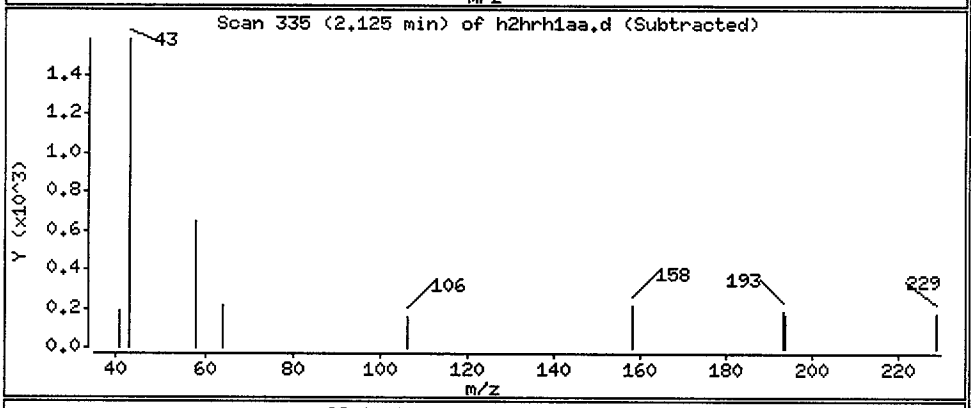
MT 4/7/06 split peak

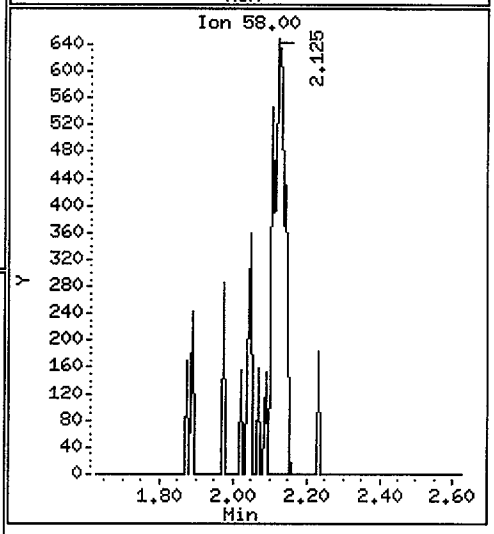
22 Acetone

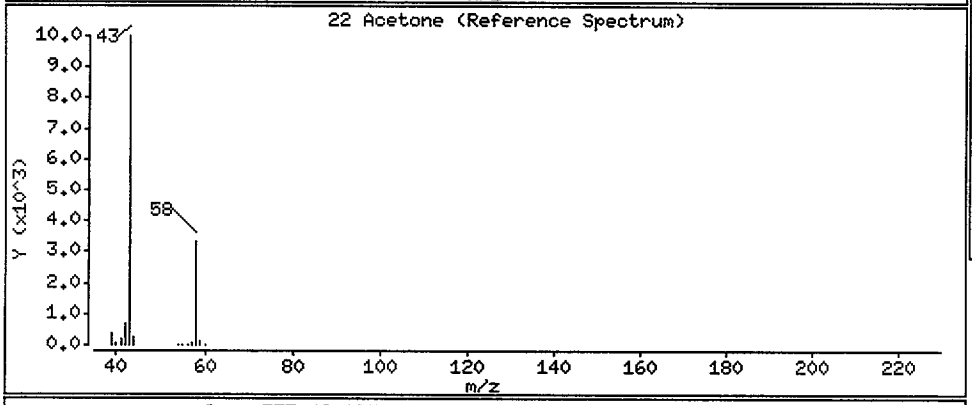
Concentration: 4.5060 ug/L

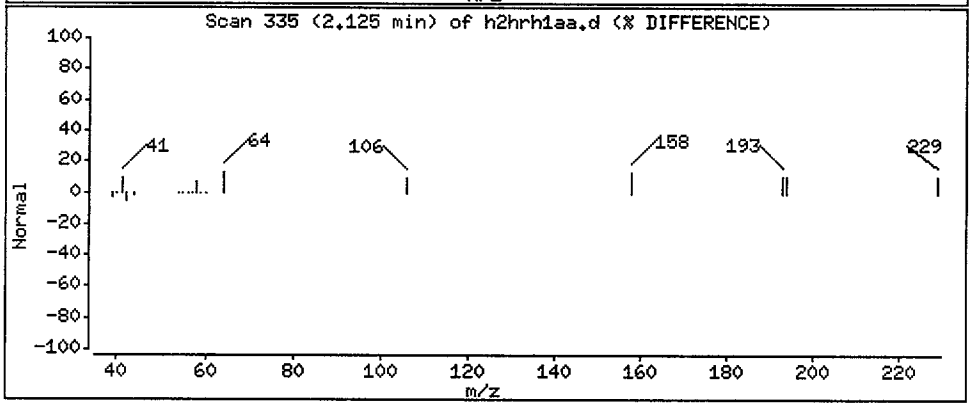












Data File: /chem/gcms/mz.i/Z040506.b/h2hrh1aa.d

Date : 06-APR-2006 00:27

Client ID: G-3086-R3-MAKE-UP W

Instrument: mz.i

Sample Info: H2HRH1AA,1,0,,

Purge Volume: 25.0

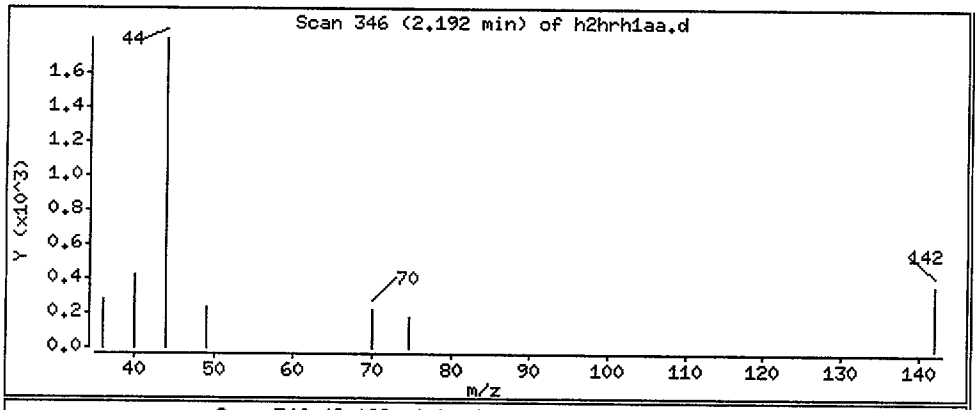
Operator: 063605

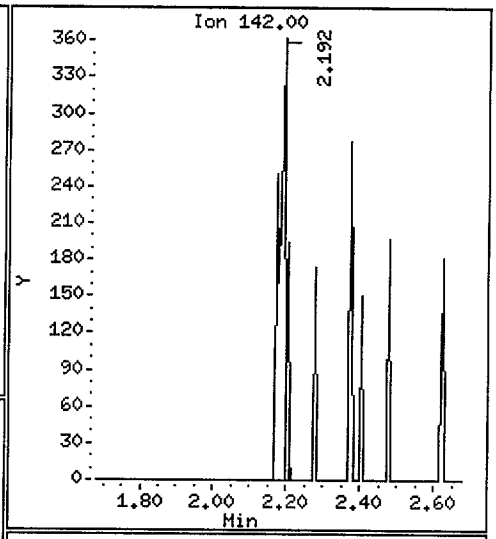
Column phase: J+W 624

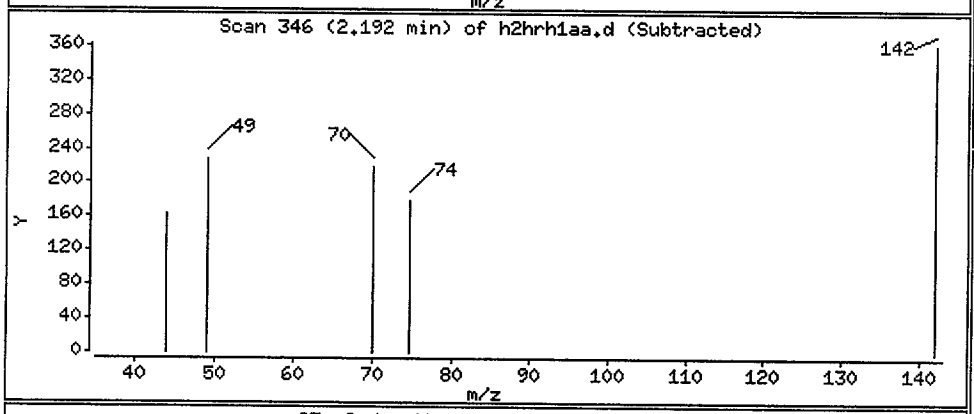
Column diameter: 0.18

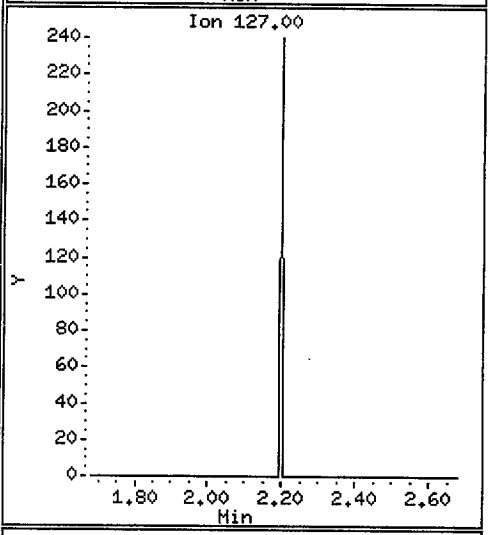
23 *Iodomethane

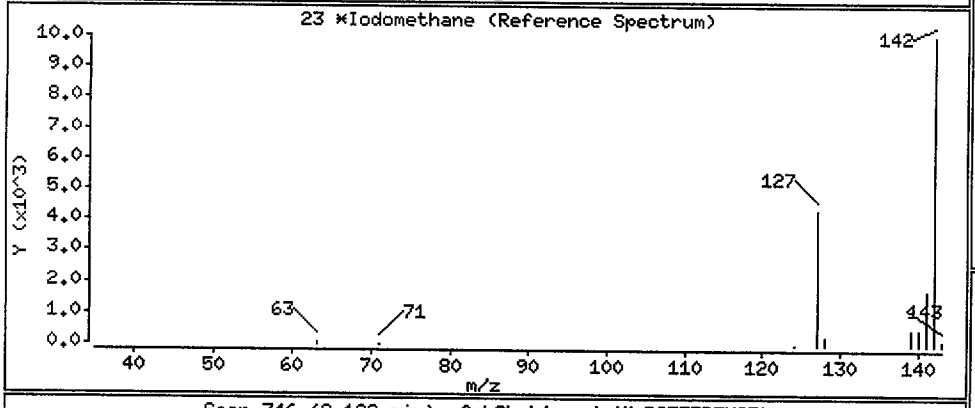
Concentration: 0.54332 ug/L

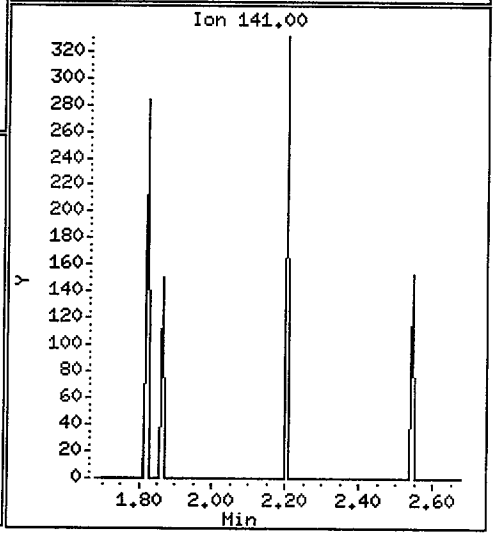


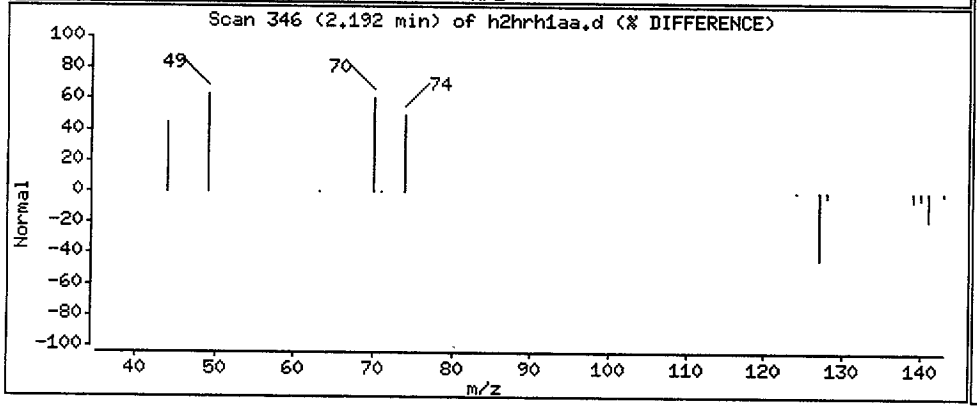












Data File: /chem/gcms/mz.i/Z040506.b/h2hrh1aa.d

Date : 06-APR-2006 00:27

Client ID: G-3086-R3-MAKE-UP W

Instrument: mz.i

Sample Info: H2HRH1AA,1,0,,

Purge Volume: 25.0

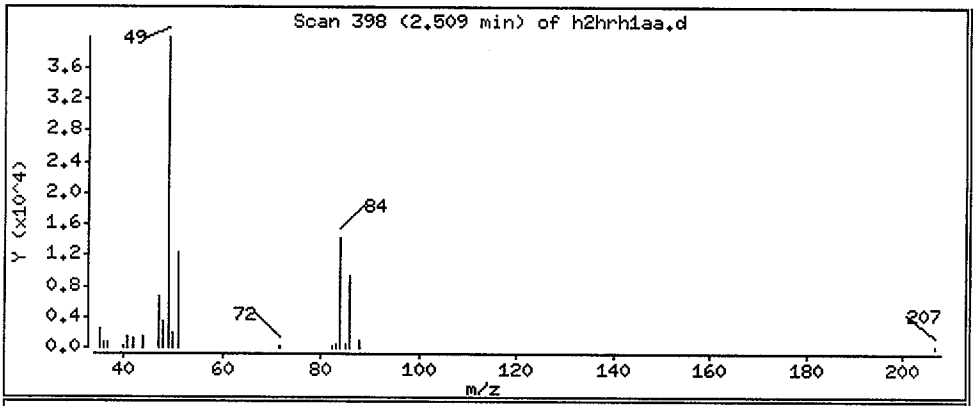
Operator: 063605

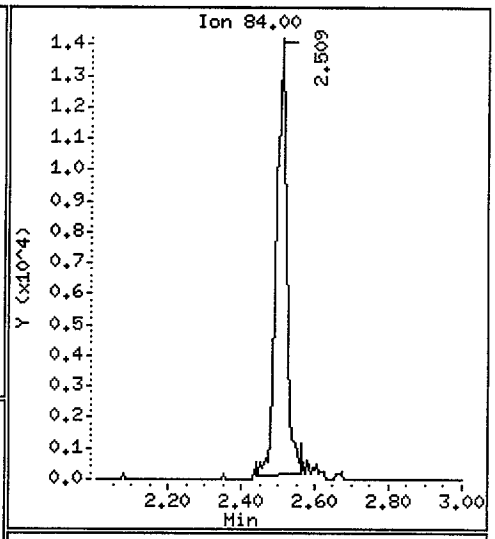
Column phase: J+W 624

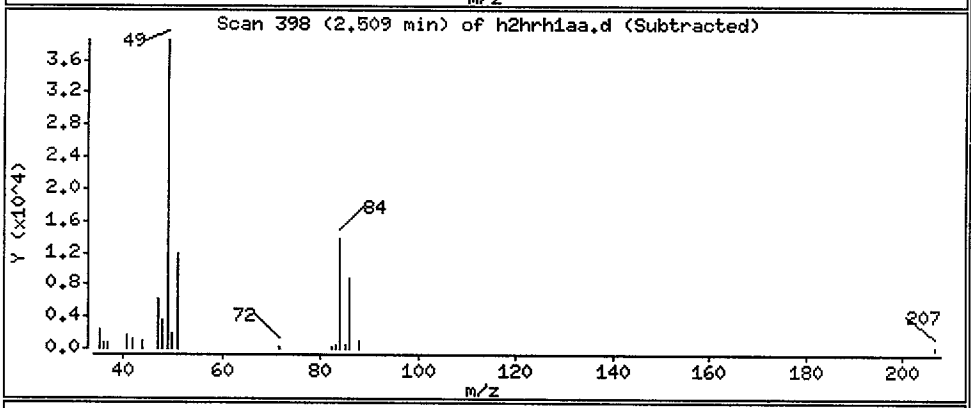
Column diameter: 0.18

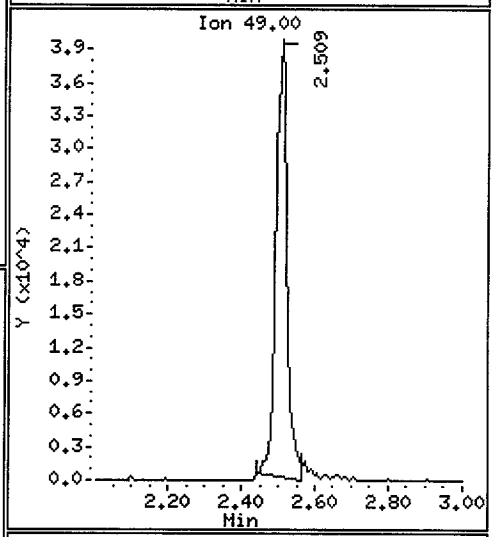
27 Methylene Chloride

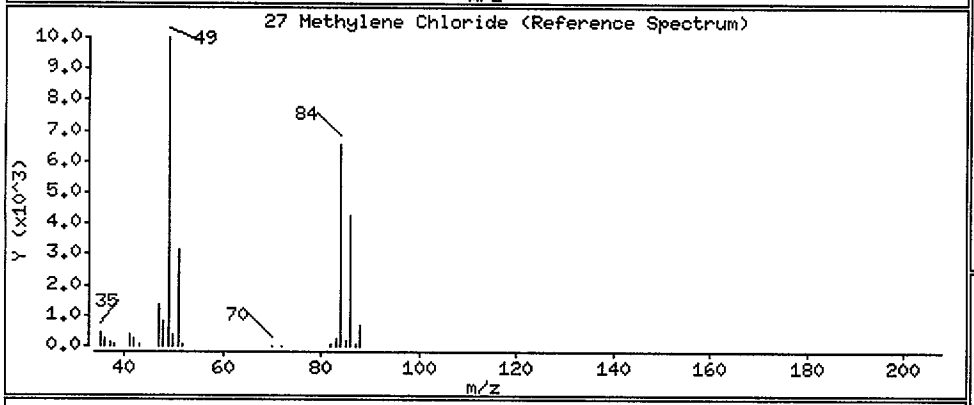
Concentration: 1.9852 ug/L

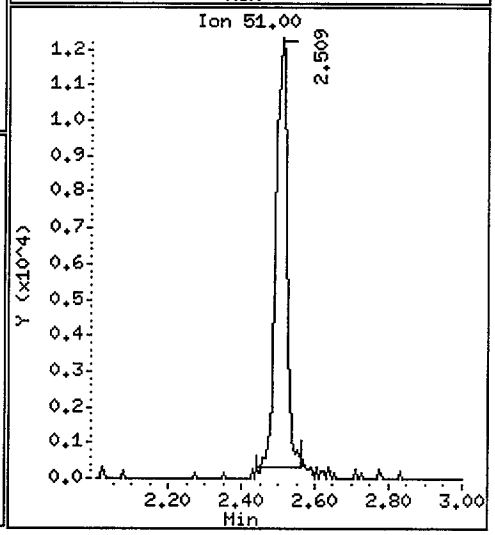


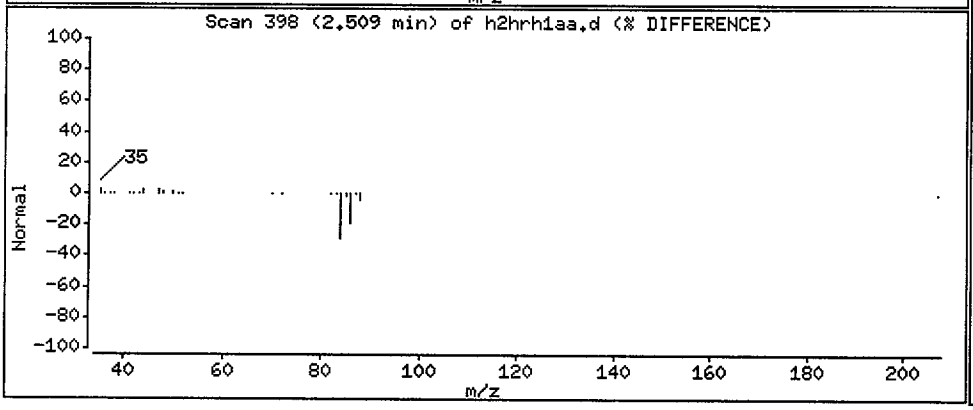












Data File: /chem/gcms/mz.i/Z040506.b/h2hrh1aa.d

Date : 06-APR-2006 00:27

Client ID: G-3086-R3-MAKE-UP W

Instrument: mz.i

Sample Info: H2HRH1AA,1,0,,

Purge Volume: 25.0

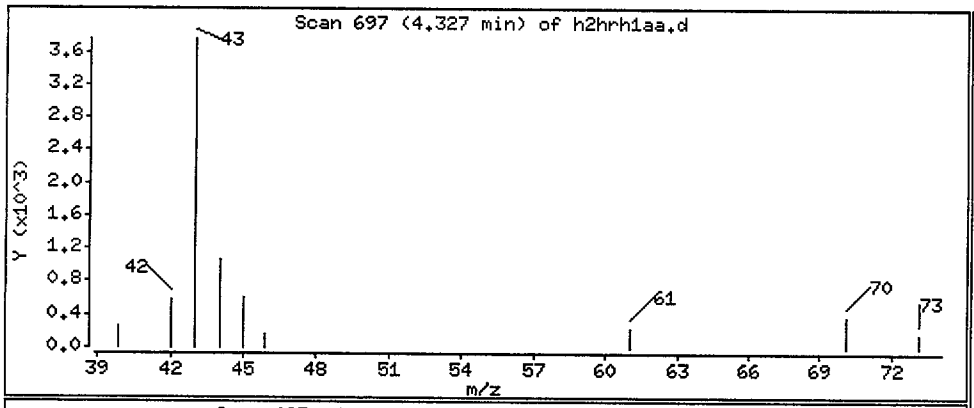
Operator: 063605

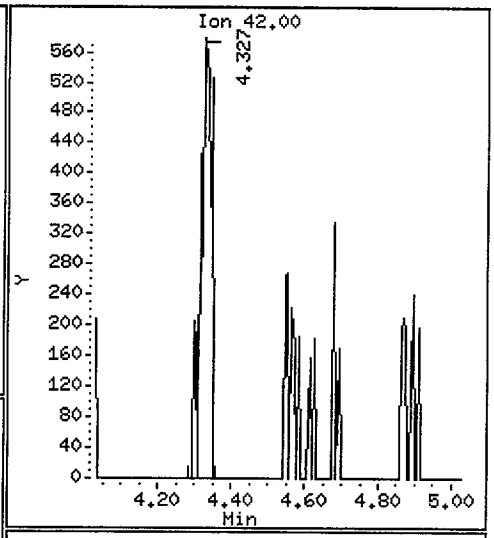
Column phase: J+W 624

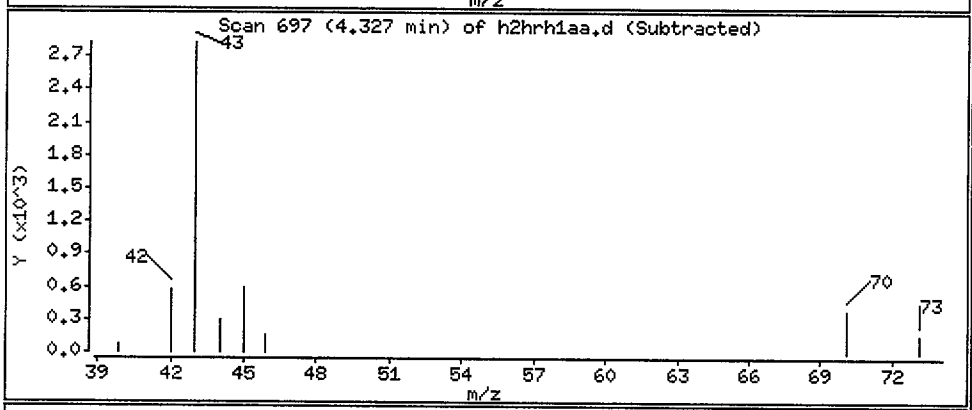
Column diameter: 0.18

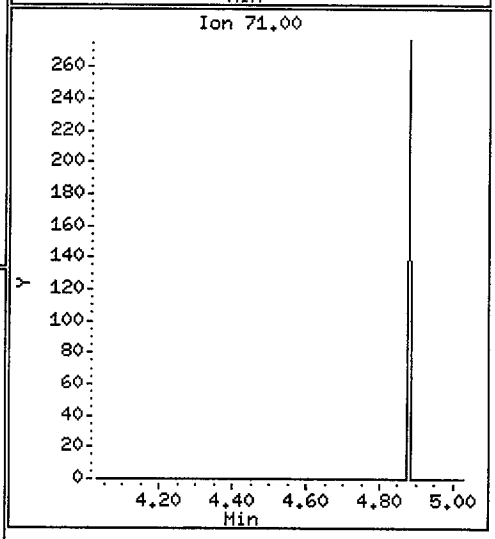
39 *THF

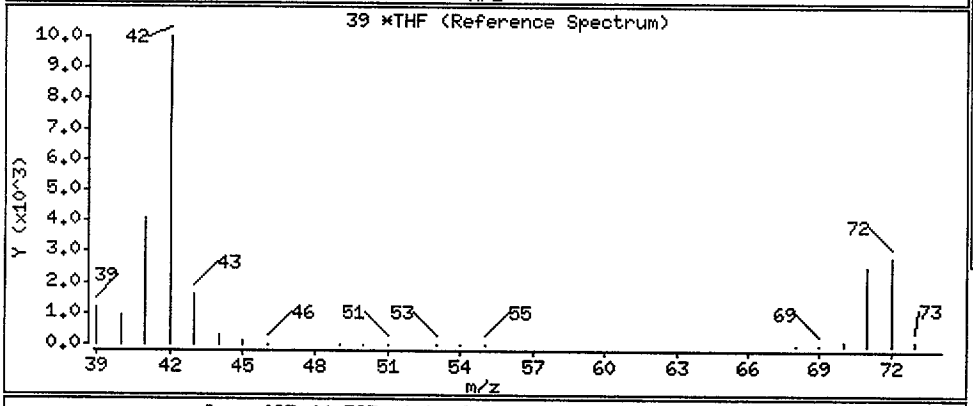
Concentration: 0.57284 ug/L

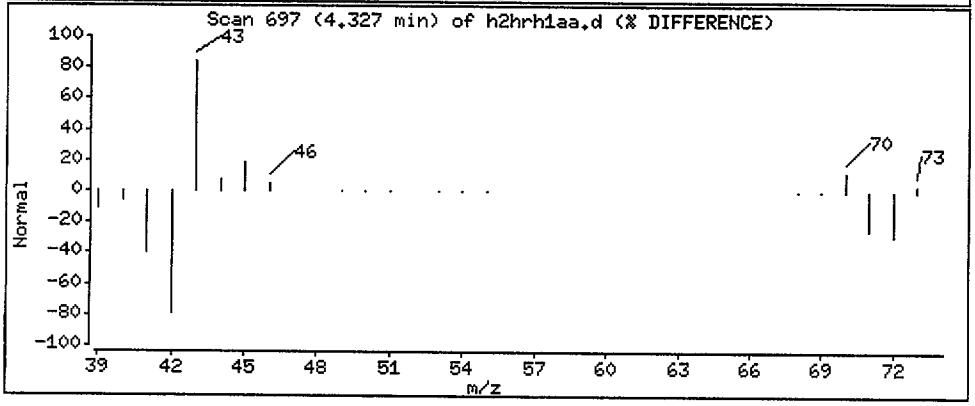












Data File: /chem/gcms/mz.i/Z040506.b/h2hrh1aa.d

Date : 06-APR-2006 00:27

Client ID: G-3086-R3-MAKE-UP W

Instrument: mz.i

Sample Info: H2HRH1AA,1,0,,

Purge Volume: 25.0

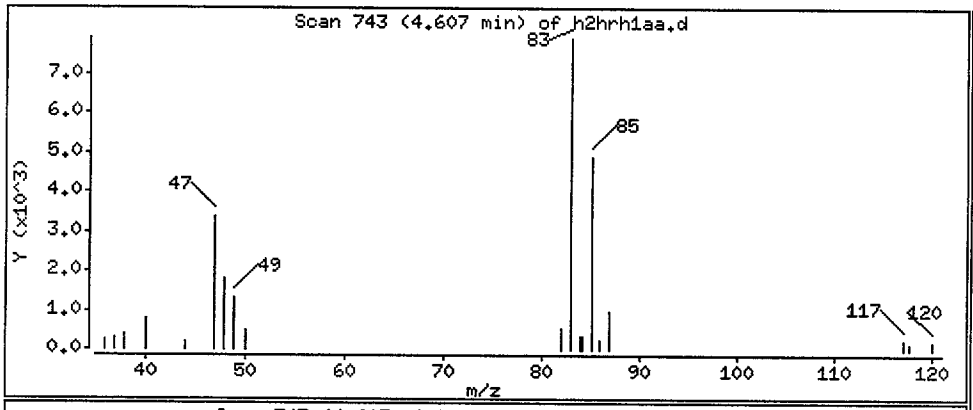
Operator: 063605

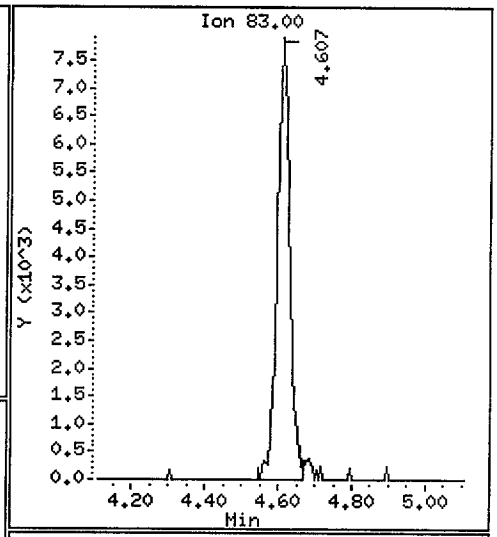
Column phase: J+W 624

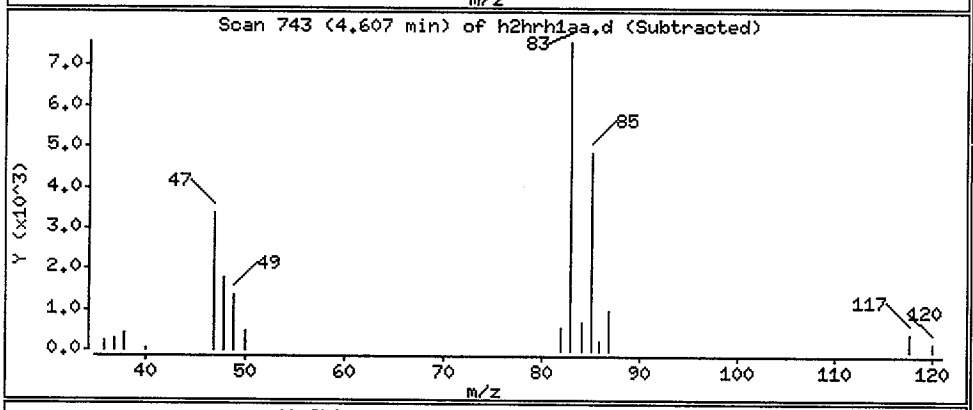
Column diameter: 0.18

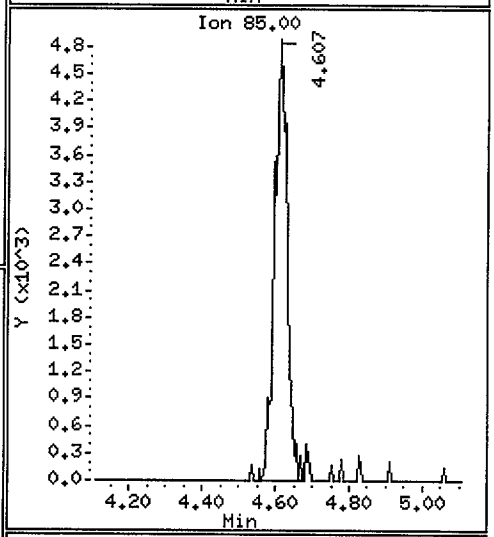
40 Chloroform (ccc)

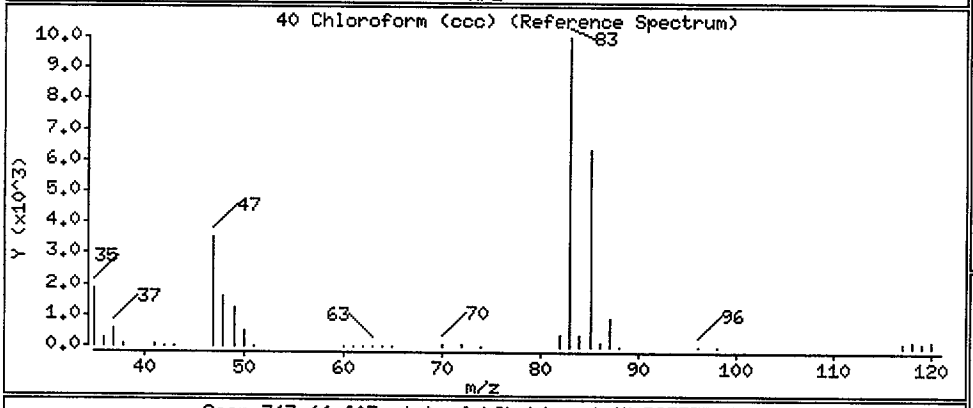
Concentration: 0.61884 ug/L

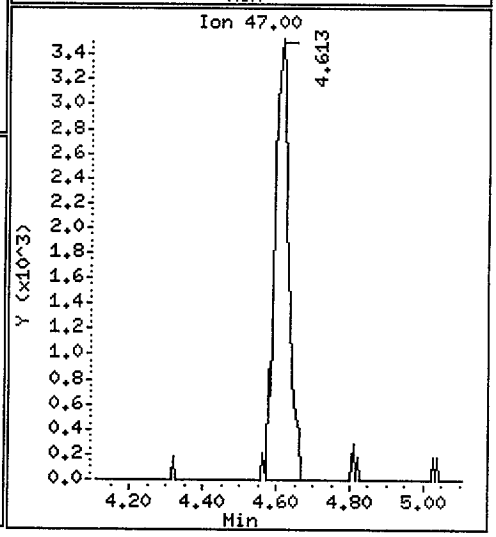


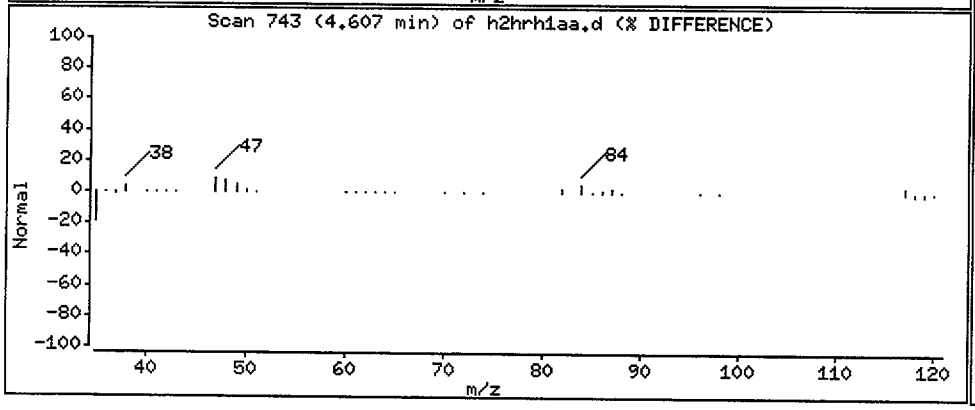












Data File: /chem/gcms/mz.i/Z040506.b/h2hrh1aa.d

Date : 06-APR-2006 00:27

Client ID: G-3086-R3-MAKE-UP W

Instrument: mz.i

Sample Info: H2HRH1AA,1,0,,

Purge Volume: 25.0

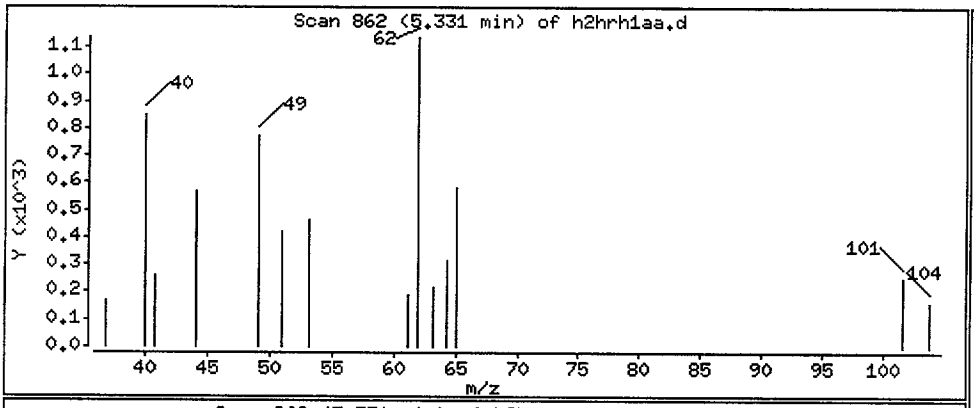
Operator: 063605

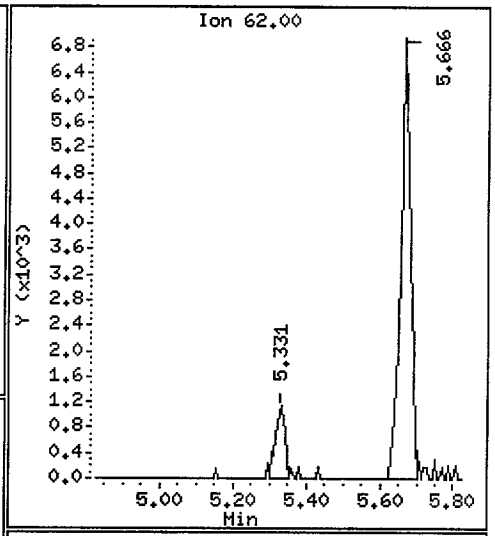
Column phase: J+W 624

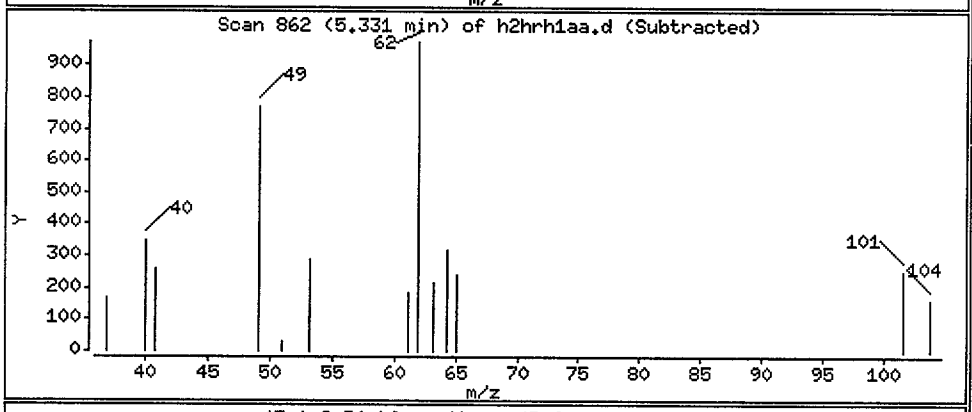
Column diameter: 0.18

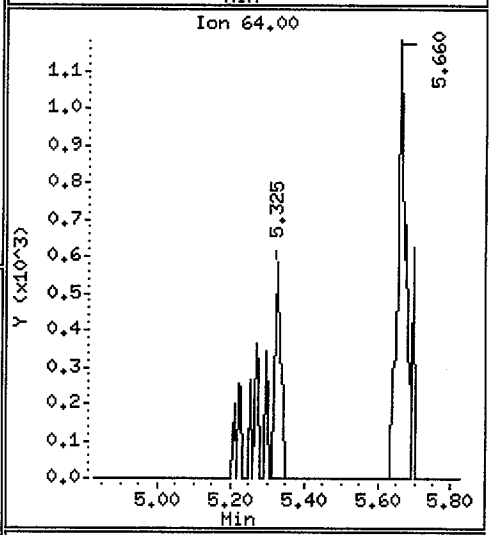
45 1,2-Dichloroethane

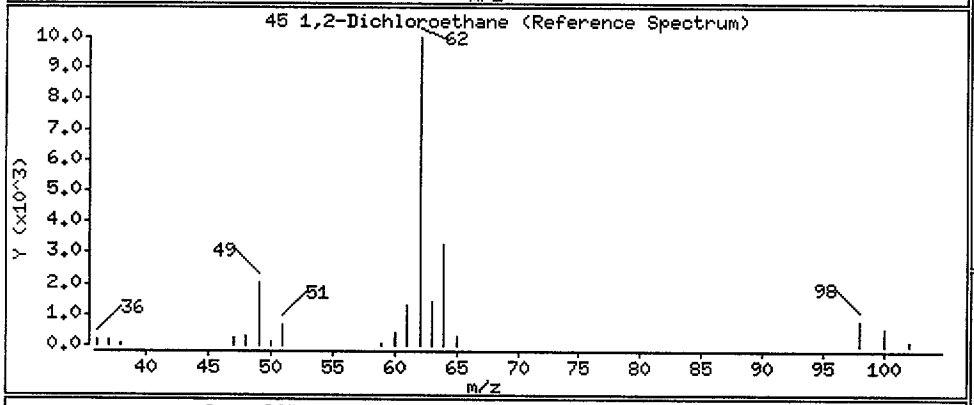
Concentration: 0.11696 ug/L

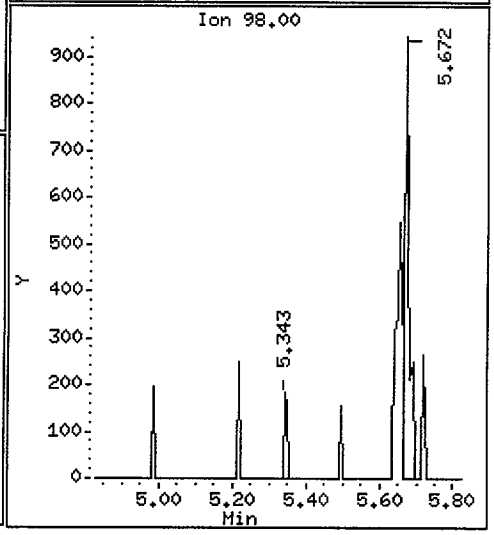


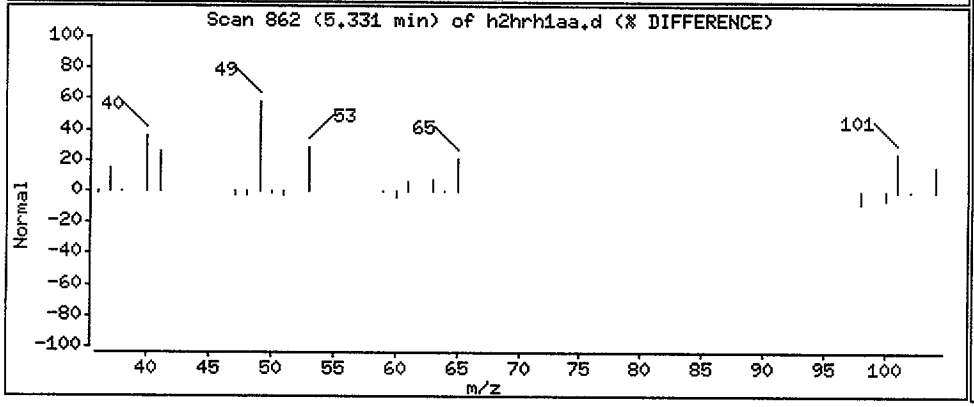












Data File: /chem/gcms/mz.i/Z040506.b/h2hrh1aa.d

Date : 06-APR-2006 00:27

Client ID: G-3086-R3-MAKE-UP W

Instrument: mz.i

Sample Info: H2HRH1AA,1,0,,

Purge Volume: 25.0

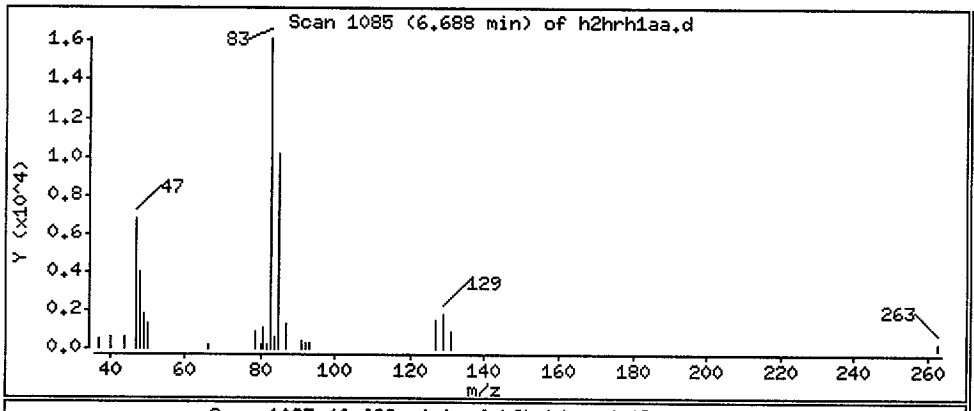
Operator: 063605

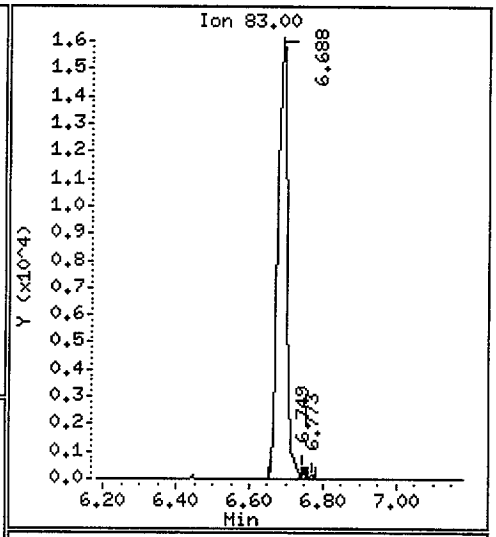
Column phase: J+W 624

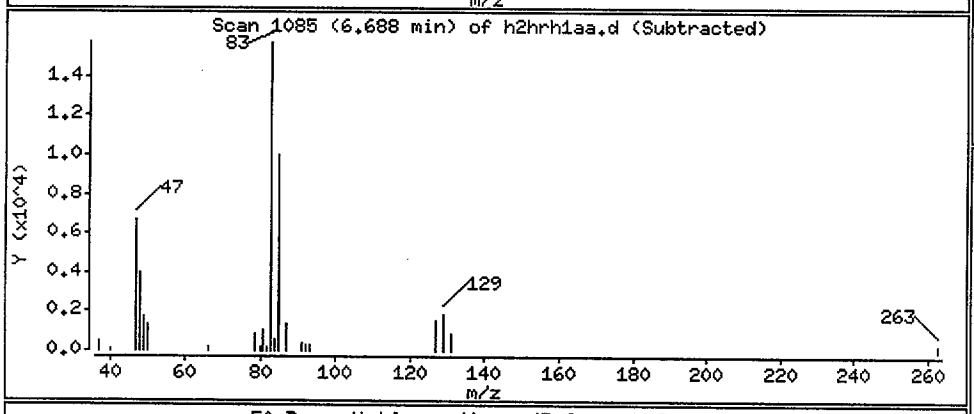
Column diameter: 0.18

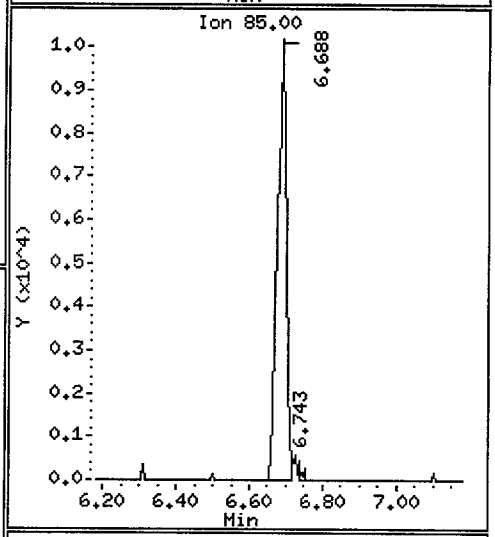
50 Bromodichloromethane

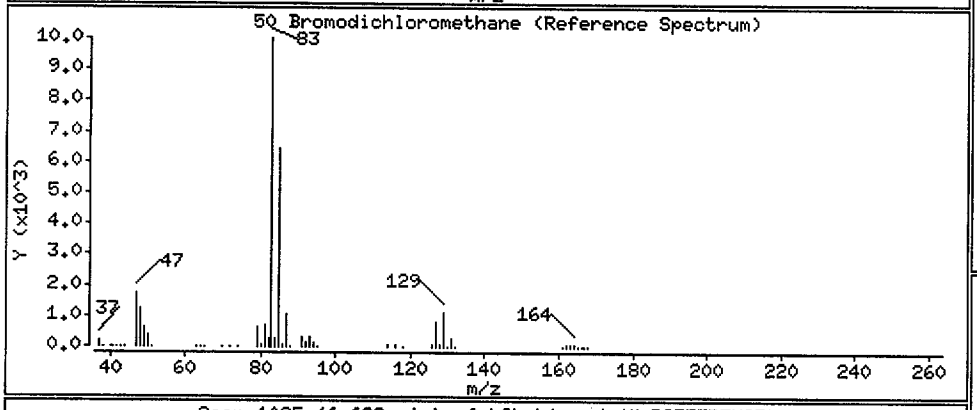
Concentration: 2.5408 ug/L

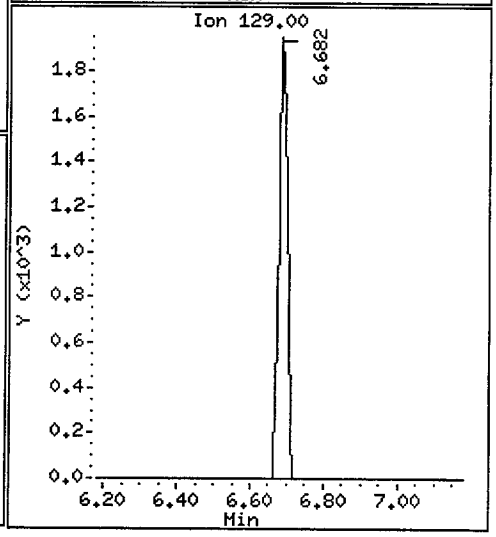


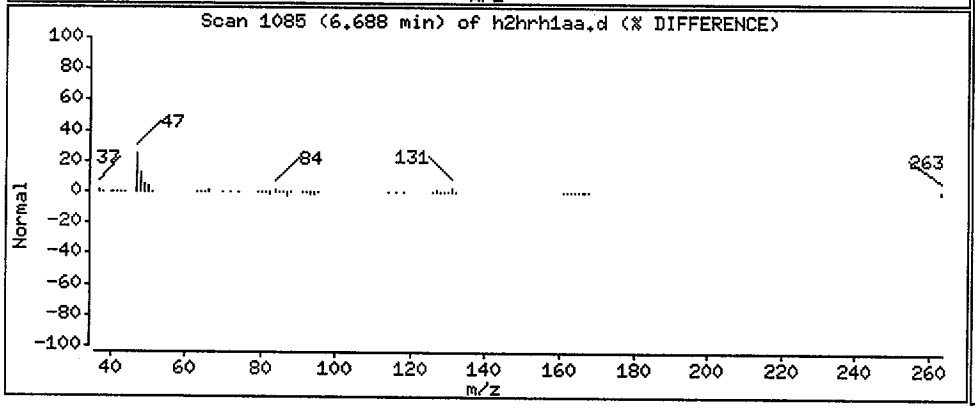












Data File: /chem/gcms/mz.i/Z040506.b/h2hrh1aa.d

Date : 06-APR-2006 00:27

Client ID: G-3086-R3-MAKE-UP W

Instrument: mz.i

Sample Info: H2HRH1AA,1,0,,

Purge Volume: 25.0

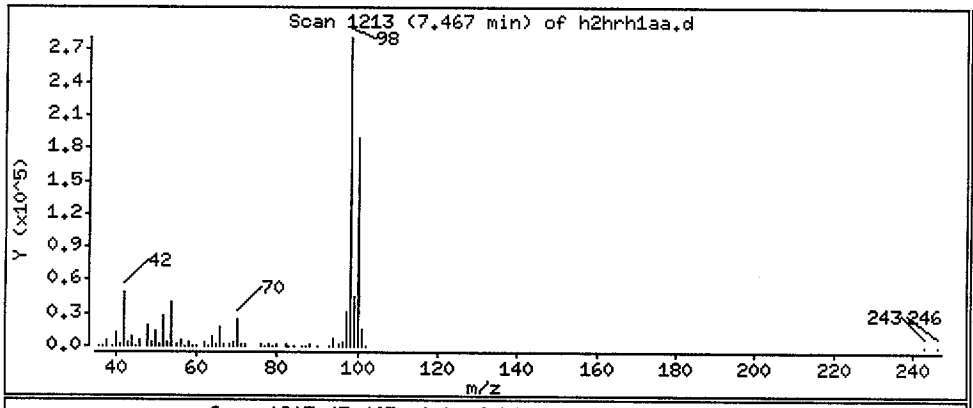
Operator: 063605

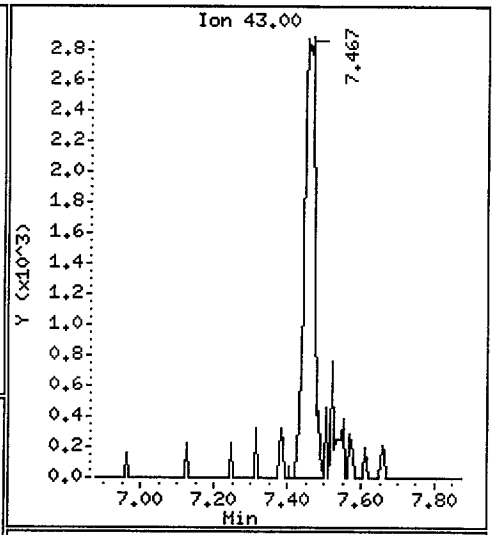
Column phase: J+W 624

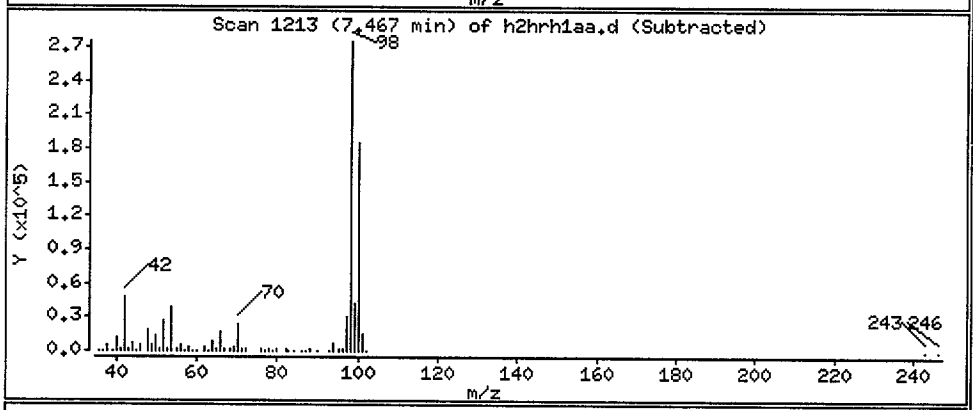
Column diameter: 0.18

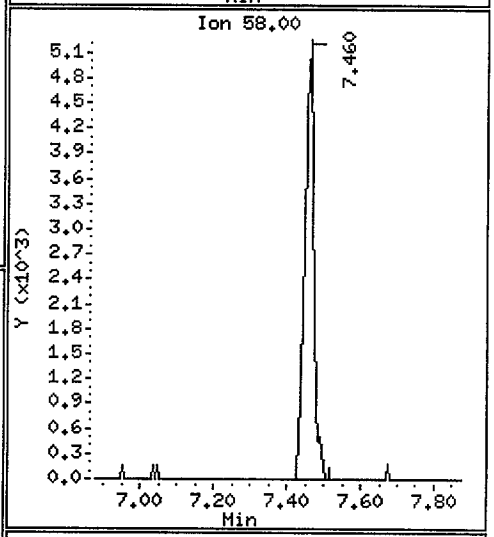
53 4-Methyl-2-pentanone

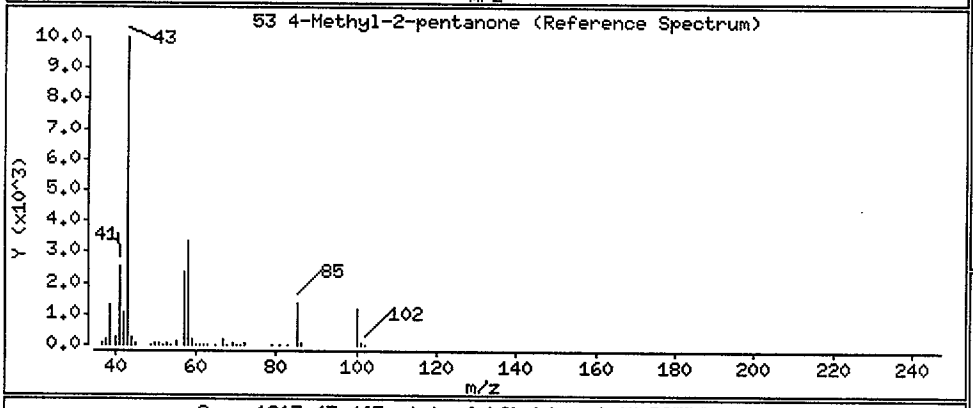
Concentration: 0.79117 ug/L

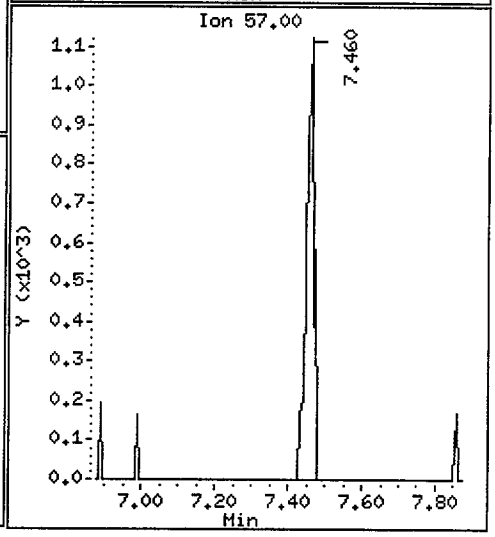


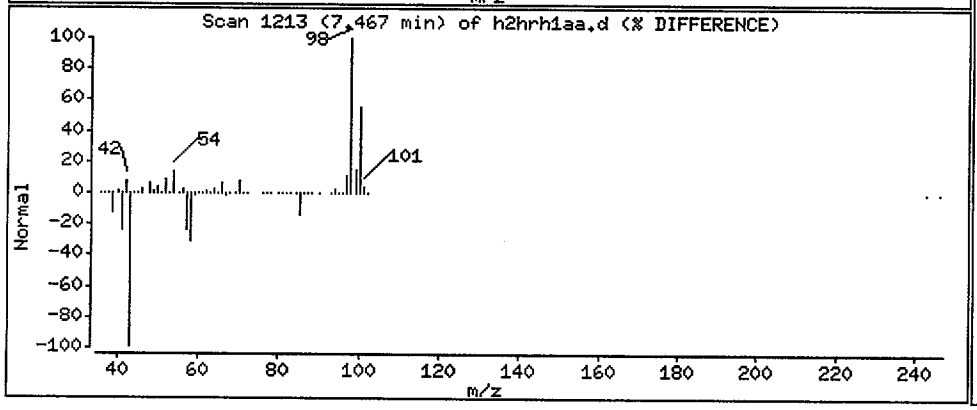












Data File: /chem/gcms/mz.i/Z040506.b/h2hrh1aa.d

Date : 06-APR-2006 00:27

Client ID: G-3086-R3-MAKE-UP W

Instrument: mz.i

Sample Info: H2HRH1AA,1,0,,

Purge Volume: 25.0

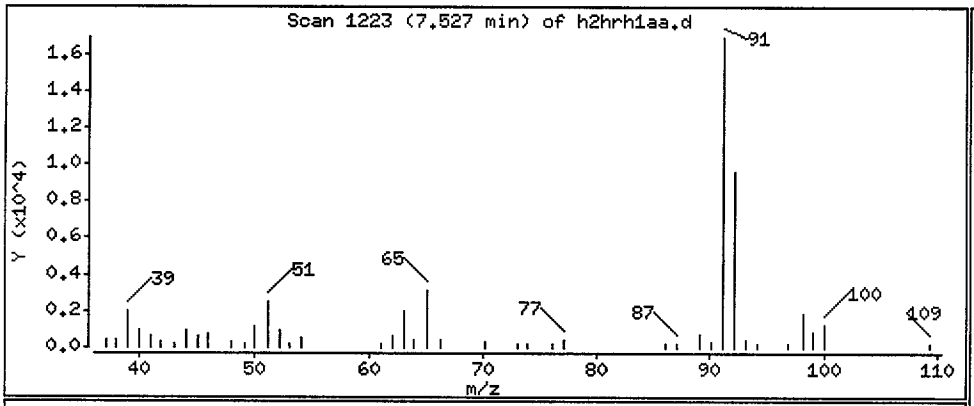
Operator: 063605

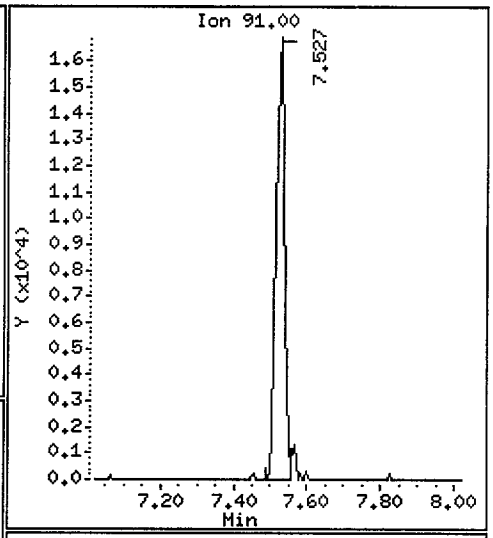
Column phase: J+W 624

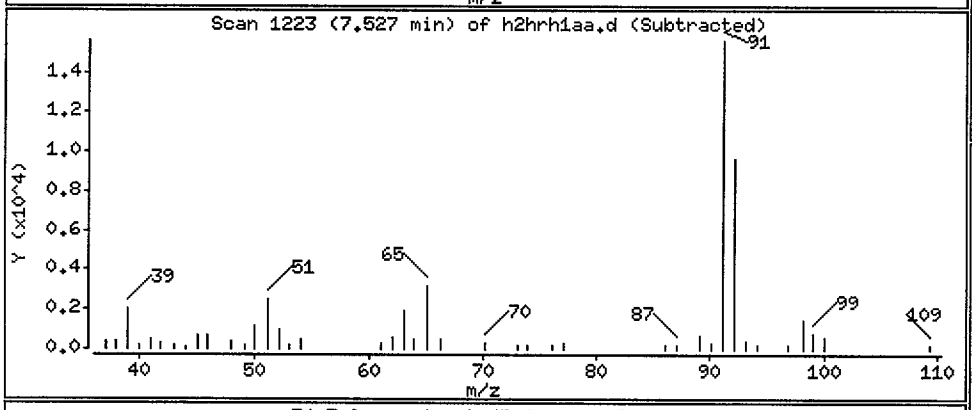
Column diameter: 0.18

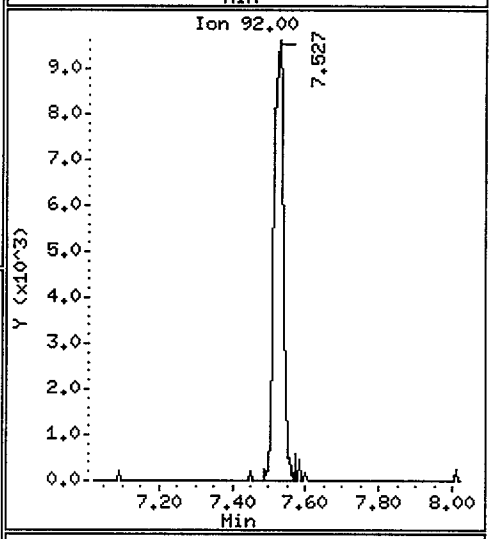
54 Toluene (ccc)

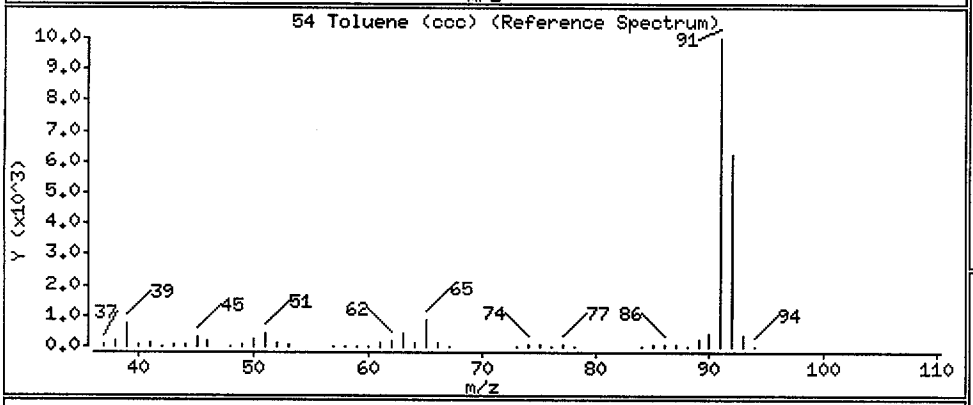
Concentration: 0.31242 ug/L

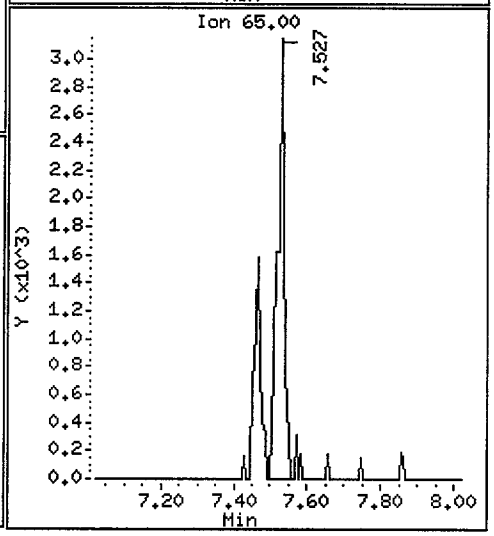


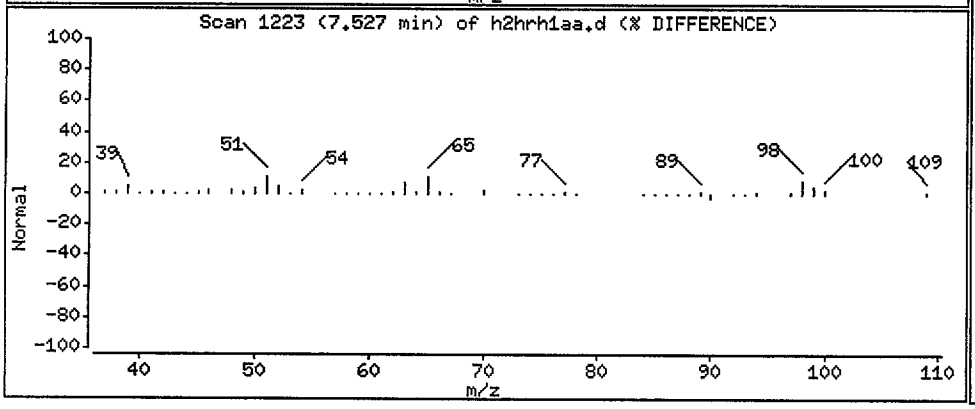












Data File: /chem/gcms/mz.i/Z040506.b/h2hrh1aa.d

Date : 06-APR-2006 00:27

Client ID: G-3086-R3-MAKE-UP W

Instrument: mz.i

Sample Info: H2HRH1AA,1,0,,

Purge Volume: 25.0

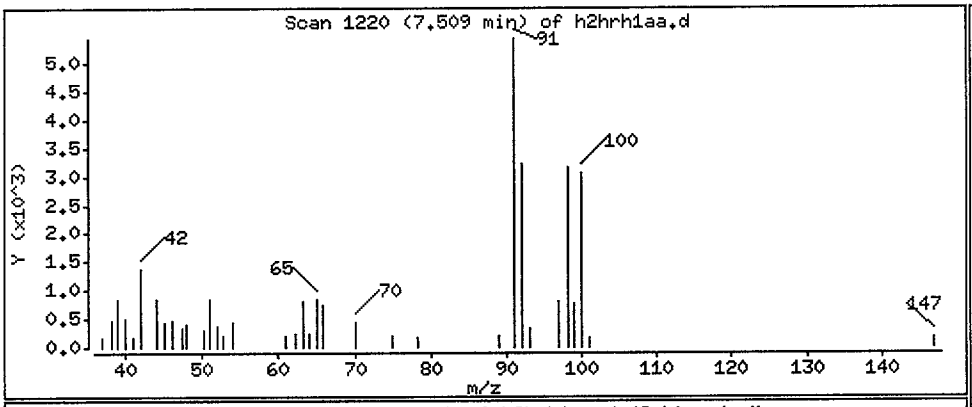
Operator: 063605

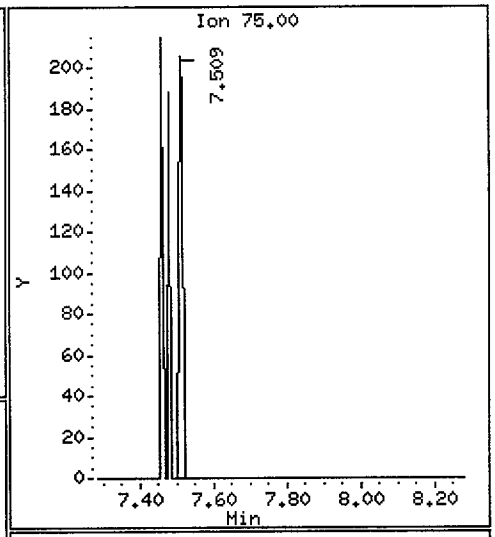
Column phase: J+W 624

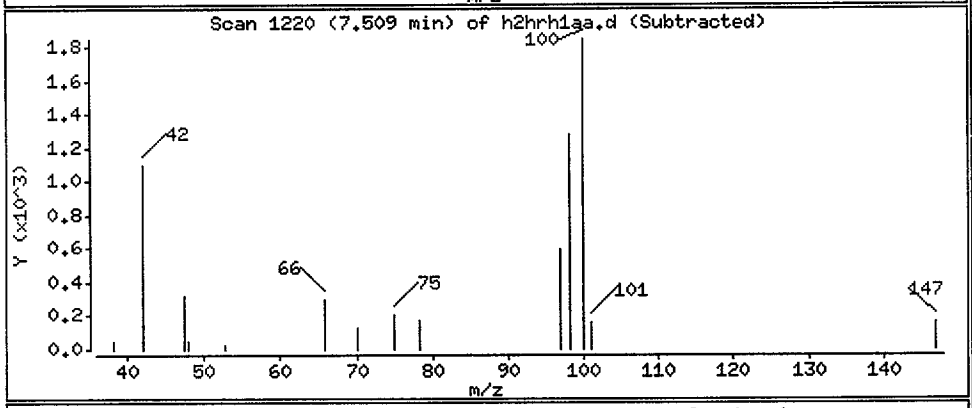
Column diameter: 0.18

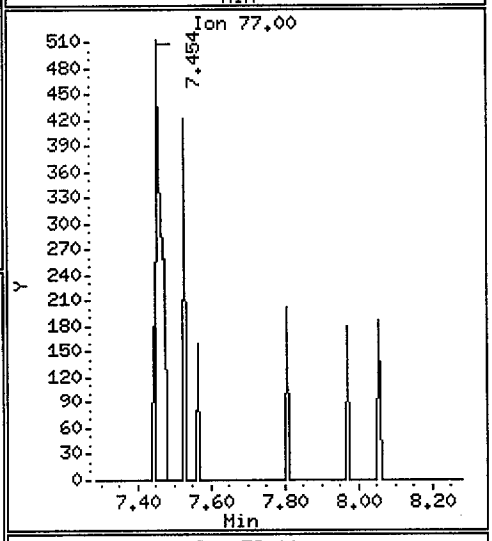
55 trans-1,3-Dichloropropene

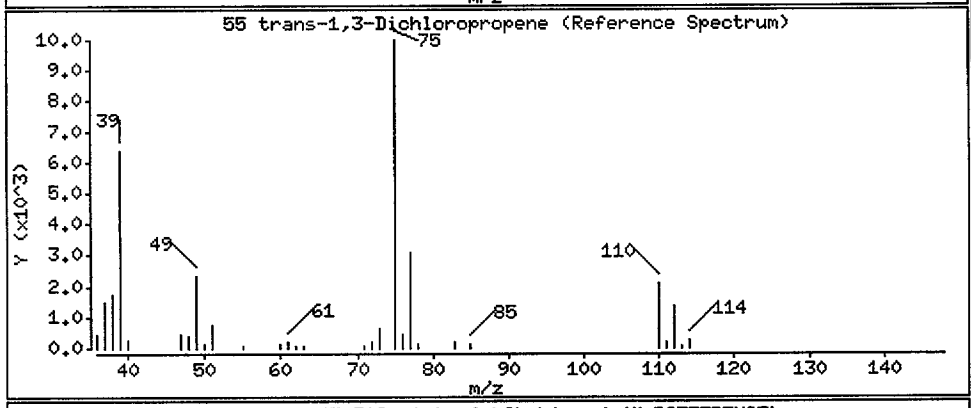
Concentration: 0.63570 ug/L

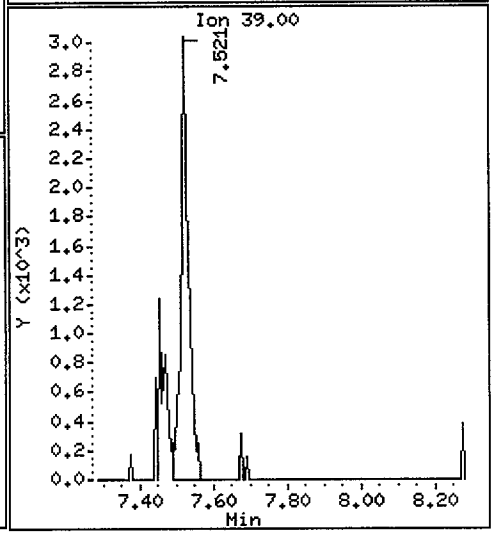


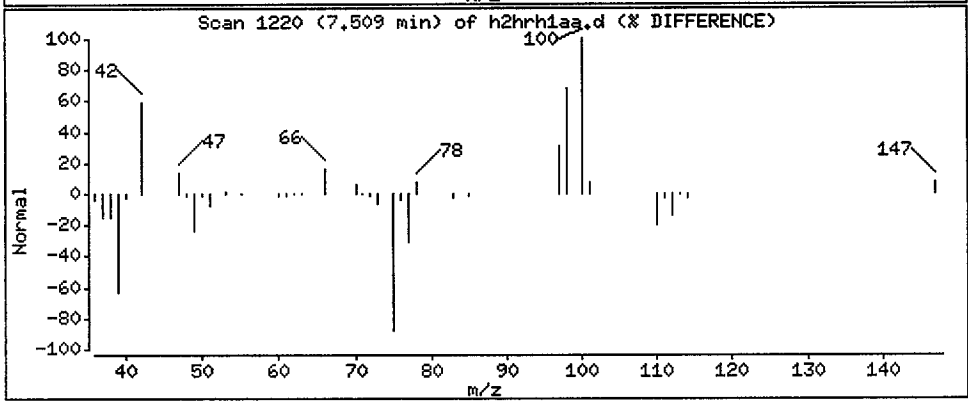












Data File: /chem/gcms/mz.i/Z040506.b/h2hrh1aa.d

Date : 06-APR-2006 00:27

Client ID: G-3086-R3-MAKE-UP W

Instrument: mz.i

Sample Info: H2HRH1AA,1,0,,

Purge Volume: 25.0

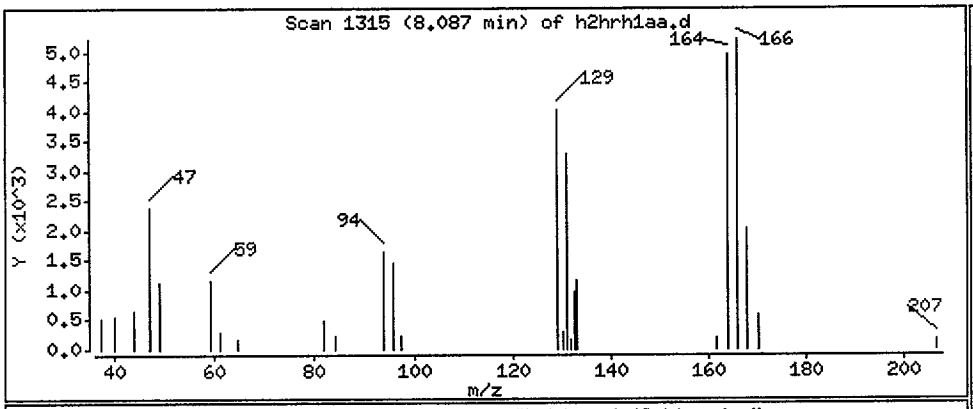
Operator: 063605

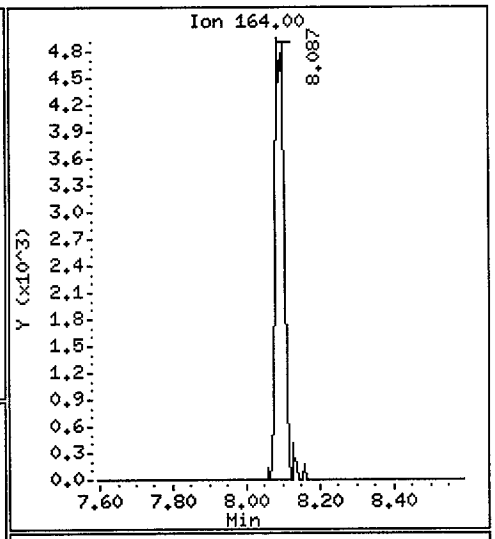
Column phase: J+W 624

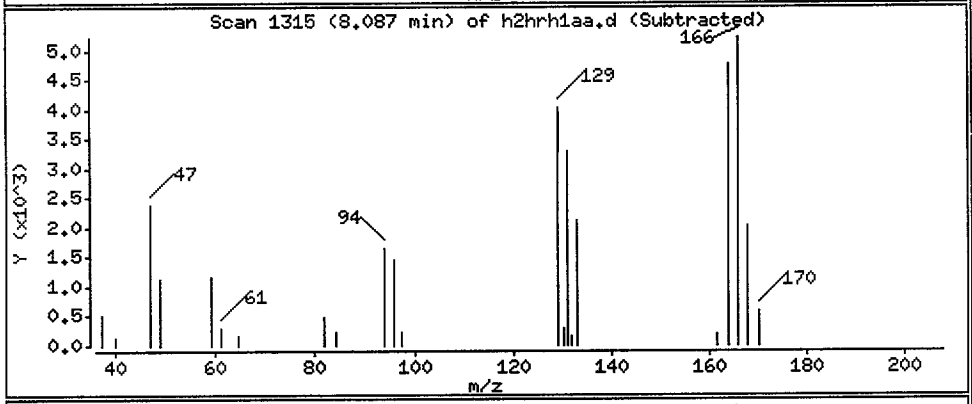
Column diameter: 0.18

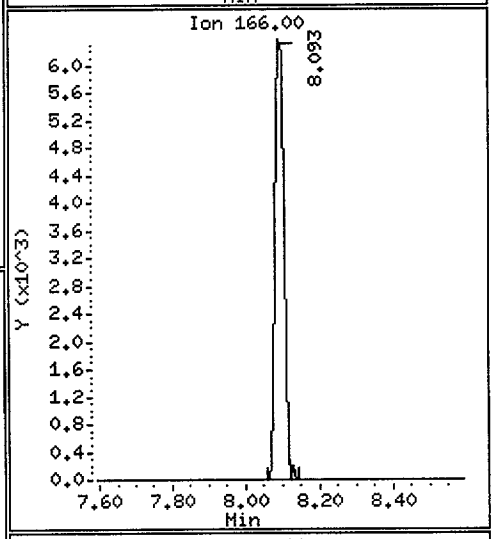
58 Tetrachloroethene

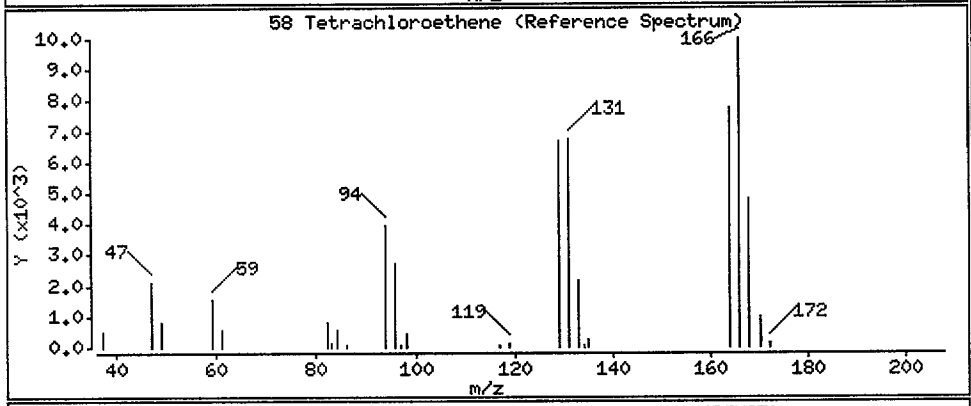
Concentration: 0.44945 ug/L

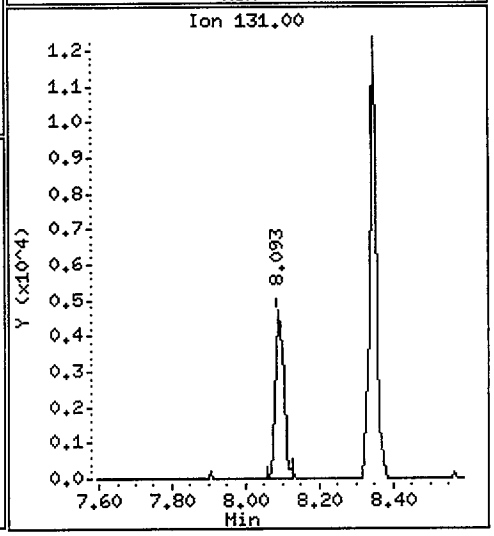


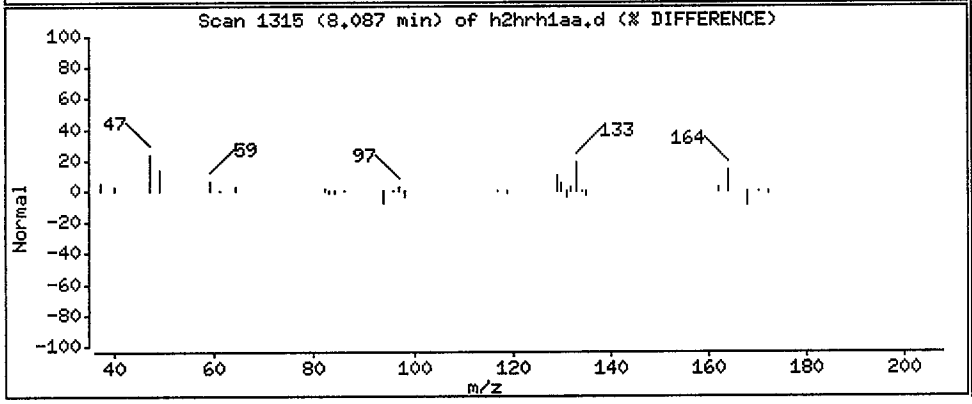












Data File: /chem/gcms/mz.i/Z040506.b/h2hrh1aa.d

Date : 06-APR-2006 00:27

Client ID: G-3086-R3-MAKE-UP W

Instrument: mz.i

Sample Info: H2HRH1AA,1,0,,

Purge Volume: 25.0

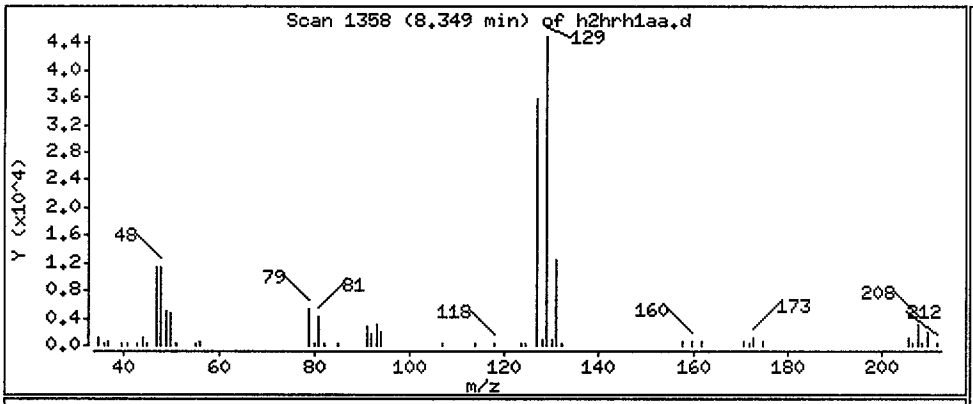
Operator: 063605

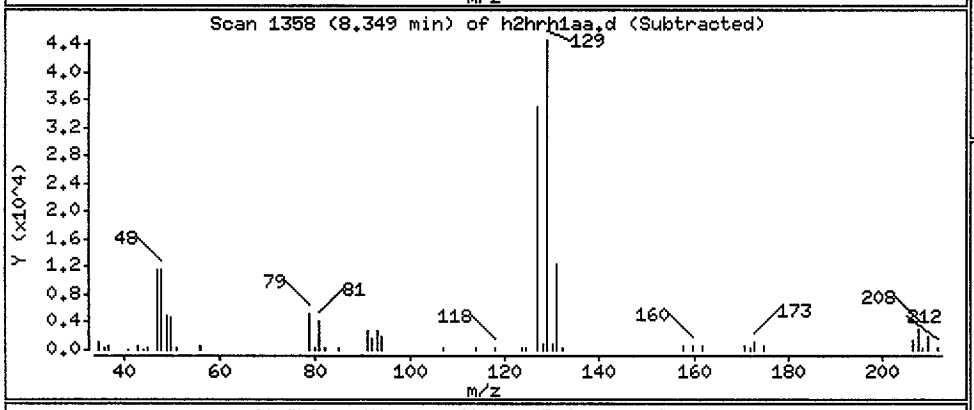
Column phase: J+W 624

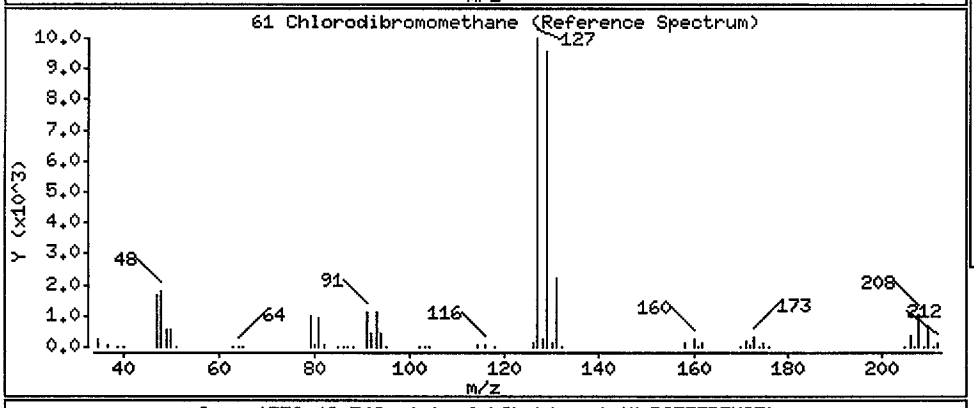
Column diameter: 0.18

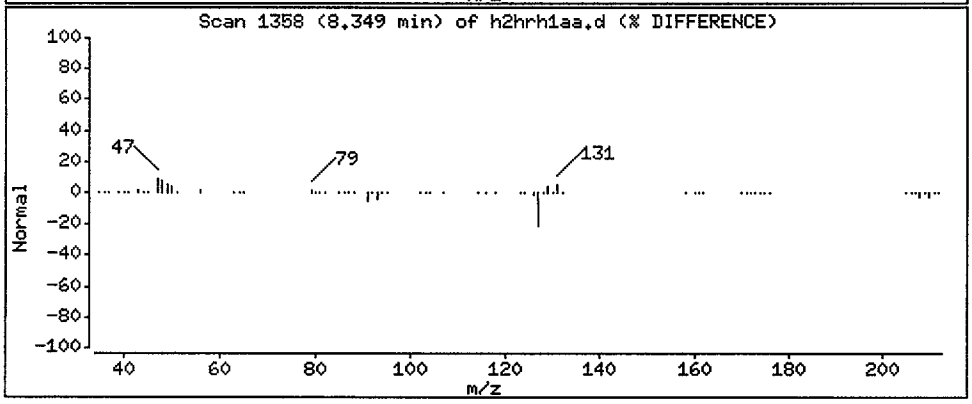
61 Chlorodibromomethane

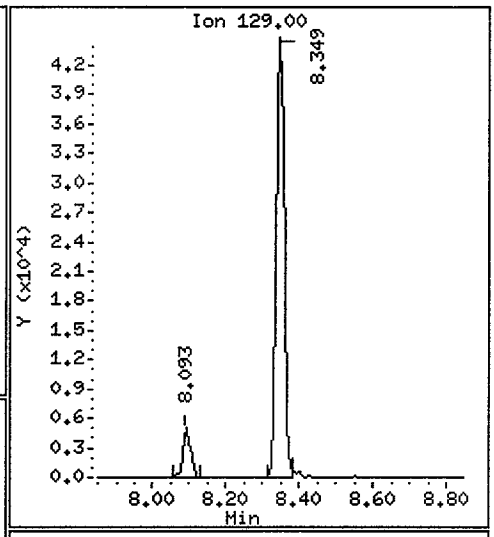
Concentration: 8.8731 ug/L

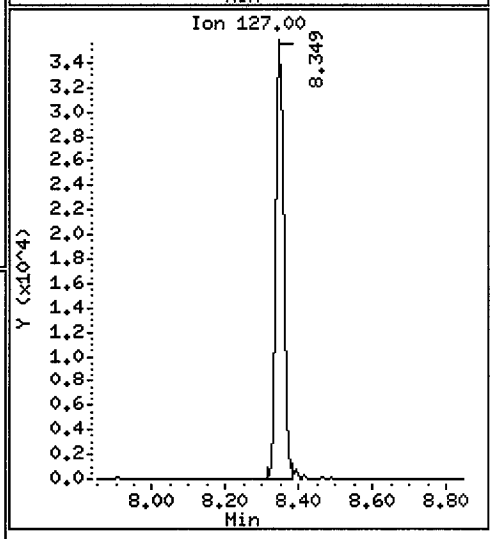












Data File: /chem/gcms/mz.i/Z040506.b/h2hrh1aa.d

Date : 06-APR-2006 00:27

Client ID: G-3086-R3-MAKE-UP W

Instrument: mz.i

Sample Info: H2HRH1AA,1,0,,

Purge Volume: 25.0

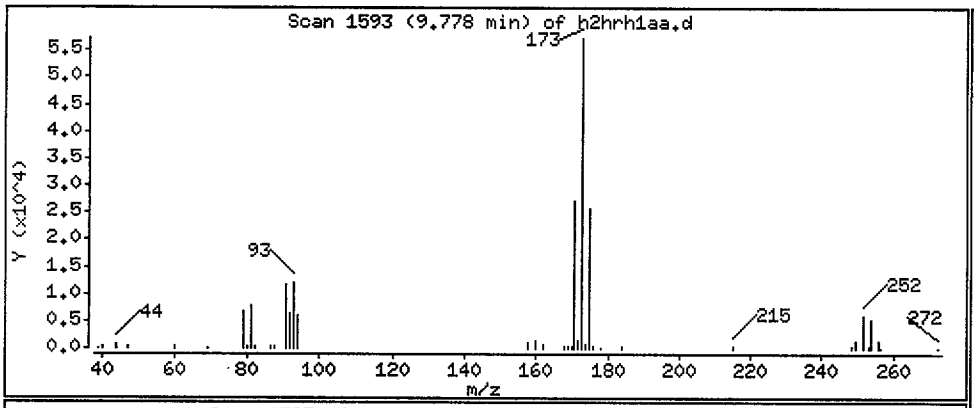
Operator: 063605

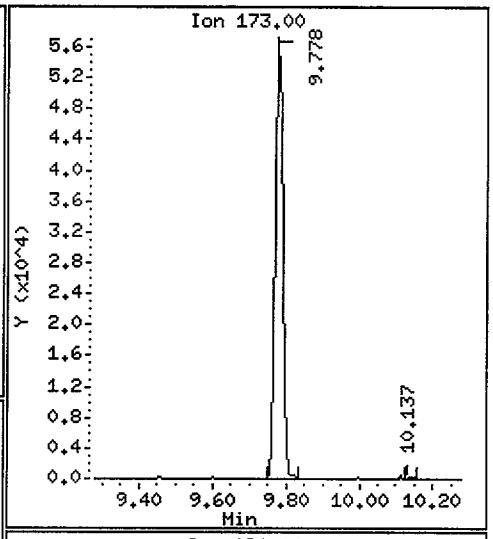
Column phase: J+W 624

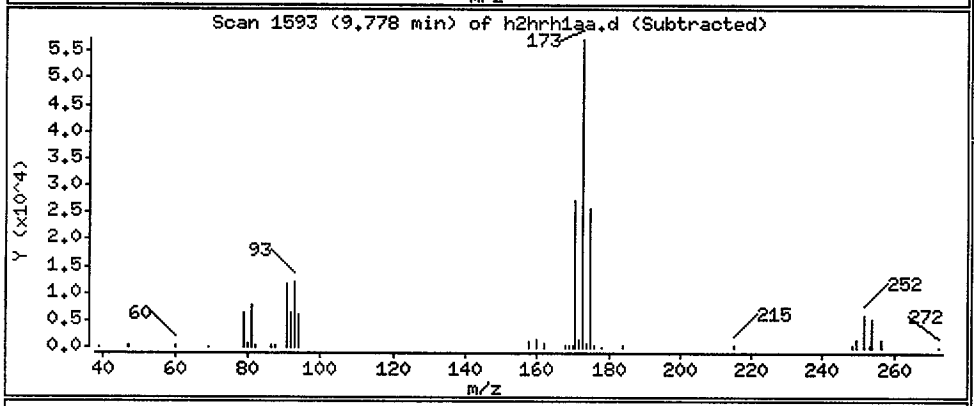
Column diameter: 0.18

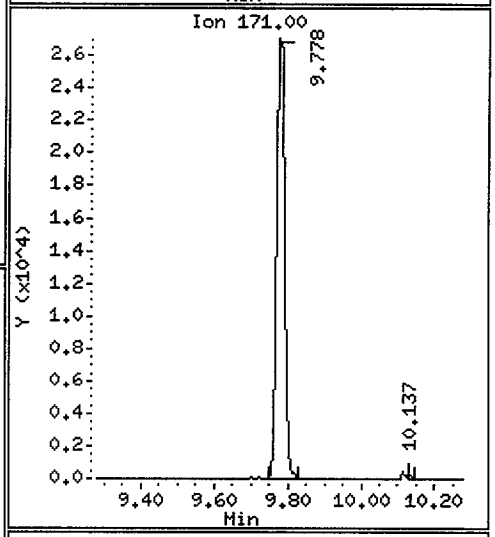
69 Bromoform (spcc)

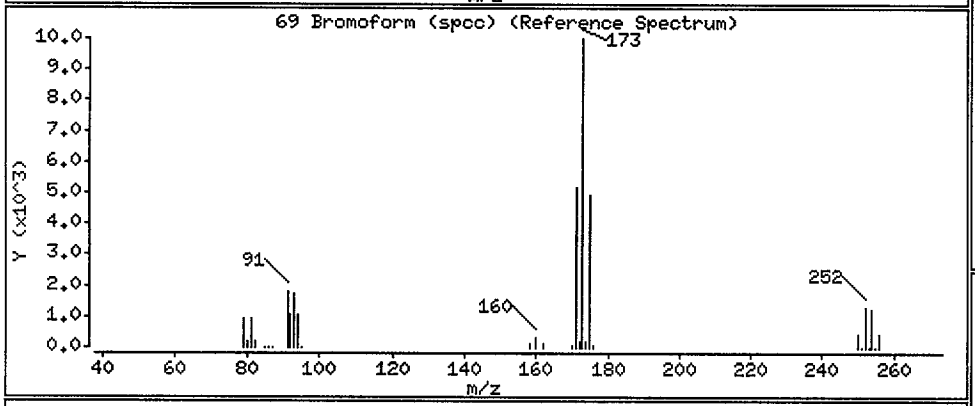
Concentration: 27.980 ug/L

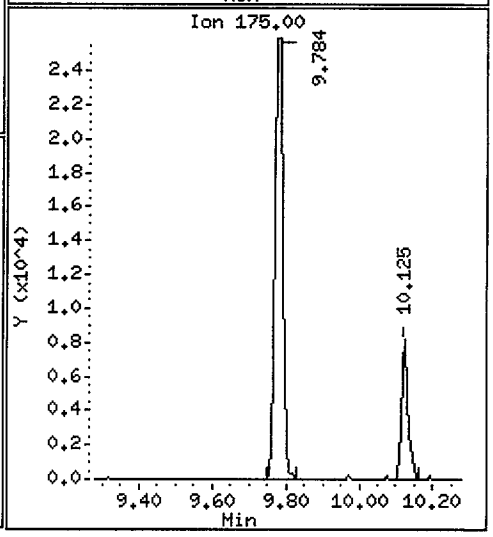


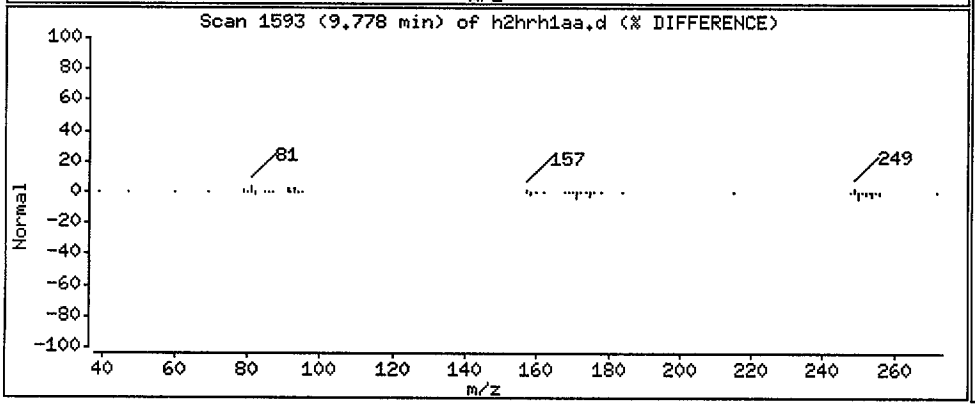












Data File: /var/chem/gcms/mz.i/Z040506.b/h2hrh1aa.d
Report Date: 07-Apr-2006 14:04

STL Knoxville

Volatile Organics by GC/MS

Data file : /var/chem/gcms/mz.i/Z040506.b/h2hrh1aa.d
Lab Smp Id: H2HRH1AA Client Smp ID: G-3086-R3-MAKE-UP W
Inj Date : 06-APR-2006 00:27
Operator : 063605 Inst ID: mz.i
Smp Info : H2HRH1AA,1,0,,
Misc Info : Z040506,8260B_LM,focus.sub
Comment : Volatile Organics by GC/MS
Method : /var/chem/gcms/mz.i/Z040506.b/8260B_LM.m
Meth Date : 06-Apr-2006 17:11 tillerm Quant Type: ISTD
Cal Date : 24-MAR-2006 13:51 Cal File: icvzc248.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: focus.sub
Target Version: 3.50
Processing Host: qmidhp01

Concentration Formula: Amt * DF * Uf*Vt/(Vo*1000) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Unit Correction factor
Vt	25000.00000	Sample Volume Purged
Vo	25.00000	Sample Volume Used

Cpnd Variable Local Compound Variable

ISTD	RT	HEIGHT	AMOUNT
* 1 Fluorobenzene	5.666	911837	10.000

	CONCENTRATIONS			QUANT		
RT	HEIGHT	ON-COL(ug/L)	FINAL(ug/L)	QUAL	LIBRARY	LIB ENTRY	CPND #
0.909	6815038	74.7396519	74.740	5	NIST05.1	80	1

Carbon dioxide CAS #: 124-38-9

MT 4/7/06

Data File: /var/chem/gcms/mz.i/Z040506.b/h2hrh1aa.d

Date : 06-APR-2006 00:27

Client ID: G-3086-R3-MAKE-UP W

Instrument: mz.i

Sample Info: H2HRH1AA,1,0,,

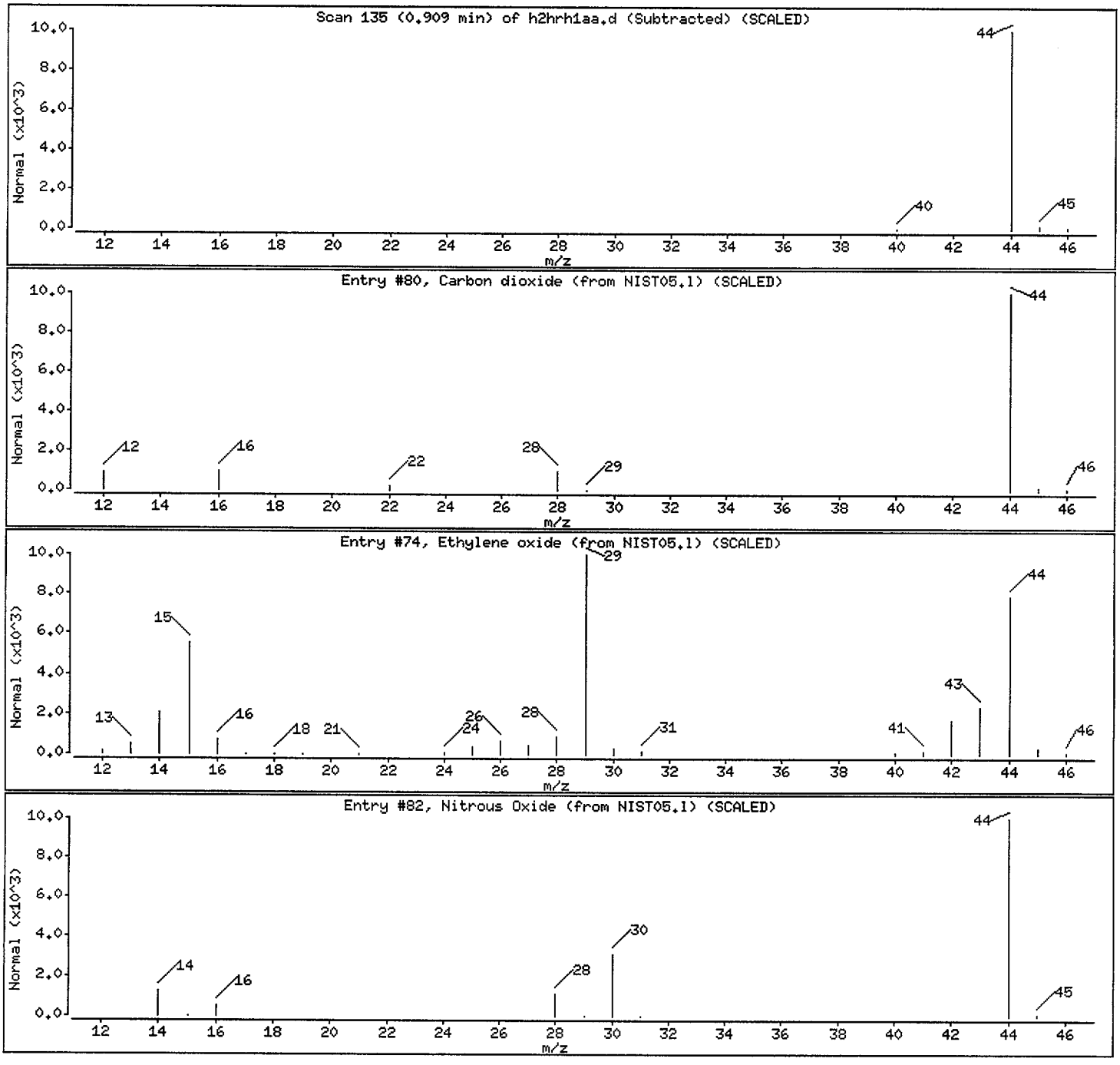
Purge Volume: 25.0

Operator: 063605

Column phase: J+W 624

Column diameter: 0.18

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Carbon dioxide	124-38-9	NIST05.1	80	5	CO2	44
Ethylene oxide	75-21-8	NIST05.1	74	3	C2H4O	44
Nitrous Oxide	10024-97-2	NIST05.1	82	3	N2O	44



Standards Data

STL Volatile GC/MS Initial Calibration Data Review / Narrative Checklist
Method: 8260B – KNOX-MS-0015, Rev. 7

Analysis Date:	2/3/06	Instrument:	MK	ICAL Batch/Scan Name:	K020306I (*)	Scanned □

Review Items	N/A	Yes	No	If No, why is data reportable?	2nd √
1. Did BFB meet tune criteria?		✓			✓
2. Were all standards injected within 12 hr of BFB?		✓			✓
3. Was date/time of analysis verified between analysis header and logbook as correct?		✓			✓
4. Were ≥ 5 levels of each compound/surrogate analyzed?		✓			✓
5. Was low level standard at or below RL?		✓			✓
6. Was the primary ion used for all compounds?		✓		□ *Secondary ion used due to interferences for:* ____	✓
7. Do the average RFs for SPCCs meet minimum RF?		✓			✓
8. Are %RSD <30% for CCCs?		✓			✓
9. Was a linear fit or quadratic fit used for analytes >15% RSD?		✓			✓
10. If curves were used, is correlation coefficient ≥0.990?		✓			✓
11. At least 6 consecutive points used for quadratic curves?		✓			✓
12. For quadratic: is a tangent's slope to the curve entirely positive or negative and continuous?		✓			✓
13. Is the "Y" intercept less than the RL for each curve?		✓			✓
14. Were all peaks identified automatically? *If not, list analytes:*		✓			✓
15. If manual integrations were performed, are they clearly identified, initialed, dated and reason given?	✓			Reasons: 1)Corrected split peak; 2)Unresolved peak; 3)tailing; 4)RT shift; 5)wrong peak selected; 6)other	NA
16. Are the ICAL start and end dates/times correct on ICAL summary?		✓			✓
17. Elution order checked on isomeric pairs?		✓			✓
• hexane and vinyl acetate		✓			✓
• cis- and trans- isomers		✓			✓
• trichlorofluoromethane and Freon 113		✓			✓
• ethyl benzene / m/p-xylene / o-xylene		✓			✓
• n-propylbenzene / 2-chlorotoluene / 4-chlorotoluene		✓			✓
• 1,3,5-trimethylbenzene / 1,2,4-trimethylbenzene / sec-butylbenzene		✓			✓
• 1,3- , 1,4- , and 1,2-dichlorobenzene		✓			✓
• 1,2,4 and 1,2,3 -trichlorobenzene		✓			✓
• chlorobenzene-d5 and 1,1,1,2-tetrachloroethane		✓			✓
18. If criteria were not met, was a NCM generated, approved by supervisor, and copy included in folder?	✓				NA
19. Does the ICAL folder contain **complete** data in the following order? Data review checklist, tune pass/fail page, m/z list, tune chromatogram, ICAL summary, & curves, followed by Quan reports, chromatograms & manual integrations, in order from low to high standard.		✓			✓
20. Was the 2nd source calibration verification standard within 70-130% and are results in ICAL folder? (25% DOD)			✓	See noted on original checklist	✓

Analyst:	Date: 2/3/06	2nd Level Reviewer :	Date: 02/06/06
Comments: (*) Freon stds appended to K121205I		Comments:	

STL Volatile GC/MS Initial Calibration Data Review / Narrative Checklist
Method: 8260B – KNOX-MS-0015, Rev. 7

Analysis Date:	12/12/05	Instrument:	MS	ICAL Batch/Scan Name:	IC121205J	Scanned ☐

Review Items	N/A	Yes	No	If No, why is data reportable?	2nd √
1. Did BFB meet tune criteria?		✓			✓
2. Were all standards injected within 12 hr of BFB?		✓			✓
3. Was date/time of analysis verified between analysis header and logbook as correct?		✓			✓
4. Were ≥ 5 levels of each compound/surrogate analyzed?		✓			✓
5. Was low level standard at or below RL?		✓			✓
6. Was the primary ion used for all compounds?		✓		☐ *Secondary ion used due to interferences for:* ____	✓
7. Do the average RFs for SPCCs meet minimum RF?		✓			✓
8. Are %RSD <30% for CCCs?		✓			✓
9. Was a linear fit or quadratic fit used for analytes >15% RSD?		✓			✓
10. If curves were used, is correlation coefficient ≥0.990?		✓			✓
11. At least 6 consecutive points used for quadratic curves?		✓			✓
12. For quadratic: is a tangent's slope to the curve entirely positive or negative and continuous?		✓			✓
13. Is the "Y" intercept less than the RL for each curve?		√			✓
14. Were all peaks identified automatically? *If not, list analytes:*		✓			✓
15. If manual integrations were performed, are they clearly identified, initialed, dated and reason given?	✓			Reasons: 1)Corrected split peak; 2)Unresolved peak; 3)tailing; 4)RT shift; 5)wrong peak selected; 6)other	NA
16. Are the ICAL start and end dates/times correct on ICAL summary?		✓			✓
17. Elution order checked on isomeric pairs?		✓			✓
• hexane and vinyl acetate		✓			✓
• cis- and trans- isomers		✓			✓
• trichlorofluoromethane and Freon 113		✓			✓
• ethyl benzene / m/p-xylene / o-xylene		✓			✓
• n-propylbenzene / 2-chlorotoluene / 4-chlorotoluene		✓			✓
• 1,3,5-trimethylbenzene / 1,2,4-trimethylbenzene / sec-butylbenzene		✓			✓
• 1,3- , 1,4- , and 1,2-dichlorobenzene		✓			✓
• 1,2,4 and 1,2,3 -trichlorobenzene		✓			✓
• chlorobenzene-d5 and 1,1,1,2-tetrachloroethane		✓			✓
18. If criteria were not met, was a NCM generated, approved by supervisor, and copy included in folder?	NA 12/15/05	✓			✓
19. Does the ICAL folder contain **complete** data in the following order? Data review checklist, tune pass/fail page, m/z list, tune chromatogram, ICAL summary, & curves, followed by Quan reports, chromatograms & manual integrations, in order from low to high standard.		✓			✓
20. Was the 2nd source calibration verification standard within 70-130% and are results in ICAL folder? (25% DOD)		✓	✓	TCLFM at 137% D on 2nd Source	✓

Analyst:	Date: 12/13/05	2nd Level Reviewer: MT	Date: 12/13/05

Comments:

MP-Xylene has an upper limit of 500 ppb
The following compounds have an upper limit of 250 ppb:
Bz-Me, 2ClPA, 2ClTol, 12DB, 3ClPA, TCLFM

Comments:

3

STL Knoxville GC/MS Volatiles Run Log - Instrument MK

Target Batch	K121205I	XXXXXXXXX	XXXXXXXXX	Loop #		2
QuantIMS Batch	-	-	-	Standard ID		VOA6387
Method	8260B	XXXXXXXXX	XXXXXXXXX	Matrix		SO:1
SOP#	KNOXMS0015	XXXXXXXXX	XXXXXXXXX	IS Amt		4.27ml
Intitial Cal Batch	K121205I	XXXXXXXXX	XXXXXXXXX	SS Amt		↓
CCAL IS Areas	1031796	713924	294859	Heated?		(Y) N

☑ Date/Time Verified Preventive Maintenance Performed ☐ NA or ☑ new traps

Lot	Lab File ID	Time	ALS #	Loop #	Solatek Dilution Factor	MS Dilution Factor	Volume/ Weight Purged	pH	Init	Standards ID/Spike ID/ and/or Comments
Tune	RBFB1KL12	1518	-	-	-	1	-	NA	WT	1ml VOA6378
JCAL 1.5	ICVKJ121	1538	1	~~2~~	1		5mL			VOA6382 5ml VOA6390 3ml
05	6	1601	2	-						5ml 10ml
10	7	1625	3	-						5ml 20ml
50	3	1648	4	2						VOA6388 - VOA6389 2.5ml
100	4	1711	5							1ml 5ml
250	5	1735	6							4ml 12.5ml
400	8	1758	7							- 20ml
BK	BK	1822	8							
2nd Source	VCVKJ13A	1845	9							5ml VOA6384
↓	↓ B	1909	10	↓	↓	↓	↓	↓	↓	↓ DN4

Analyst/Date: WT 12/2/05 /

⊕ Appended to 8260 curve K121205I

⊛ H_2O in vial (5 mL) is boiled, acidified

STL Knoxville GC/MS Volatiles Run Log - Instrument MK

Target Batch ⊕	K020306I	XXXXXXXXX	XXXXXXXXX	Loop #	2	
QuantIMS Batch	–			Standard ID	VOA 6430	
Method	8260B	XXXXXXXXX	XXXXXXXXX	Matrix	"soil"	
SOP#	KNOX-MS-0015	XXXXXXXXX	XXXXXXXXX	IS Amt	4.27 µl	
Intitial Cal Batch ⊕	K020306I	XXXXXXXXX	XXXXXXXXX	SS Amt	4	
CCAL IS Areas 1,2,3	1089746	748856	324637	Heated?	(Y)	N

☑ Date/Time Verified Preventive Maintenance Performed ☑ NA or ☐ _____

Lot	Lab File ID	Time	ALS #	Loop #	Solatek Dilution Factor	MS Dilution Factor	Volume/ Weight Purged	pH	Init	Standards ID/Spike ID/ and/or Comments
TUNE	BFBKB03	1139	–	–	–	1	1µl	NA	DW	µl VOA 6423
Prime	PrimeKB03	1154	1	2	1		5 mL ⊛	<2		1.5 µl VOA 6429
ICAL - 1.5	FICKB031	1219	2							5 µl 3 µl
5	6	1242	3							10 µl 10 µl
10	7	1305	4							20 µl
50	3	1329	5							2.5 µl AS567
100	4	1353	6							5 µl
250	5	1416	7							12.5 µl
400	8	1440	8							20 µl
2nd Source	FCVKB03	1503	9							2.5 µl AS572
Demo/Val	FVAL1	1527	10							2.5 µl AS572
	2	1550	11							
	3	1614	12							All IS low / leak ?
	4	1637	13							
BLANK	BLANK	1703	14							
MDL	FMDL 1	1727	15							20 µl VOA 6429
	2	1750	16							
	3	1814	17							
	4	1837	18							
	5	1901	19							
	6	1924	20							
	7	1948	21							
MDLCHK	FMDLCK5	2011	22							10 µl VOA 6429
	2	2035	23							4 µl
Demo/VAL	FVAL3R	2058	24							2.5 µl AS572

2-6-06

Analyst/Date: _____ / 2/6/06

Data File: /chem/gcms/mk.i/K121205I.b/rbfbkl12.d

Date : 12-DEC-2005 15:18

Client ID:

Instrument: mk.i

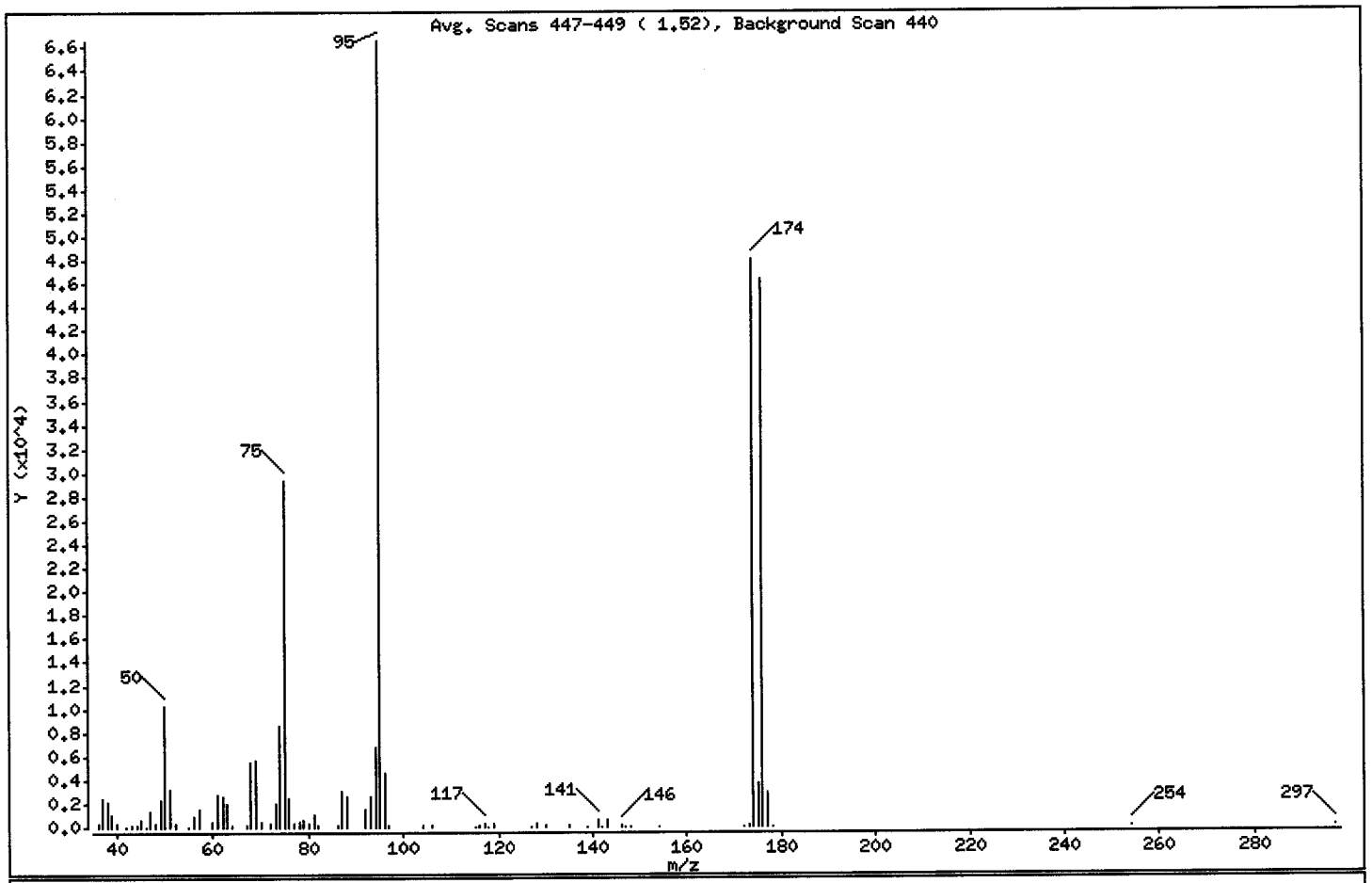
Sample Info: RBFBKL12,1,3,TUNE

Operator: 063605

Column phase: J & W 624

Column diameter: 0.18

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	15.45
75	30.00 - 60.00% of mass 95	44.08
96	5.00 - 9.00% of mass 95	6.93
173	Less than 2.00% of mass 174	0.22 (0.31)
174	50.00 - 120.00% of mass 95	72.07
175	5.00 - 9.00% of mass 174	5.43 (7.54)
176	95.00 - 101.00% of mass 174	69.59 (96.56)
177	5.00 - 9.00% of mass 176	4.35 (6.26)

Data File: /chem/gcms/mk.i/K121205I.b/rbfbkl12.d

Date : 12-DEC-2005 15:18

Client ID:

Instrument: mk.i

Sample Info: RBFBKL12,1,3,TUNE

Operator: 063605

Column phase: J & W 624

Column diameter: 0.18

Data File: rbfbkl12.d
Spectrum: Avg. Scans 447-449 (1.52), Background Scan 440
Location of Maximum: 95.00
Number of points: 76

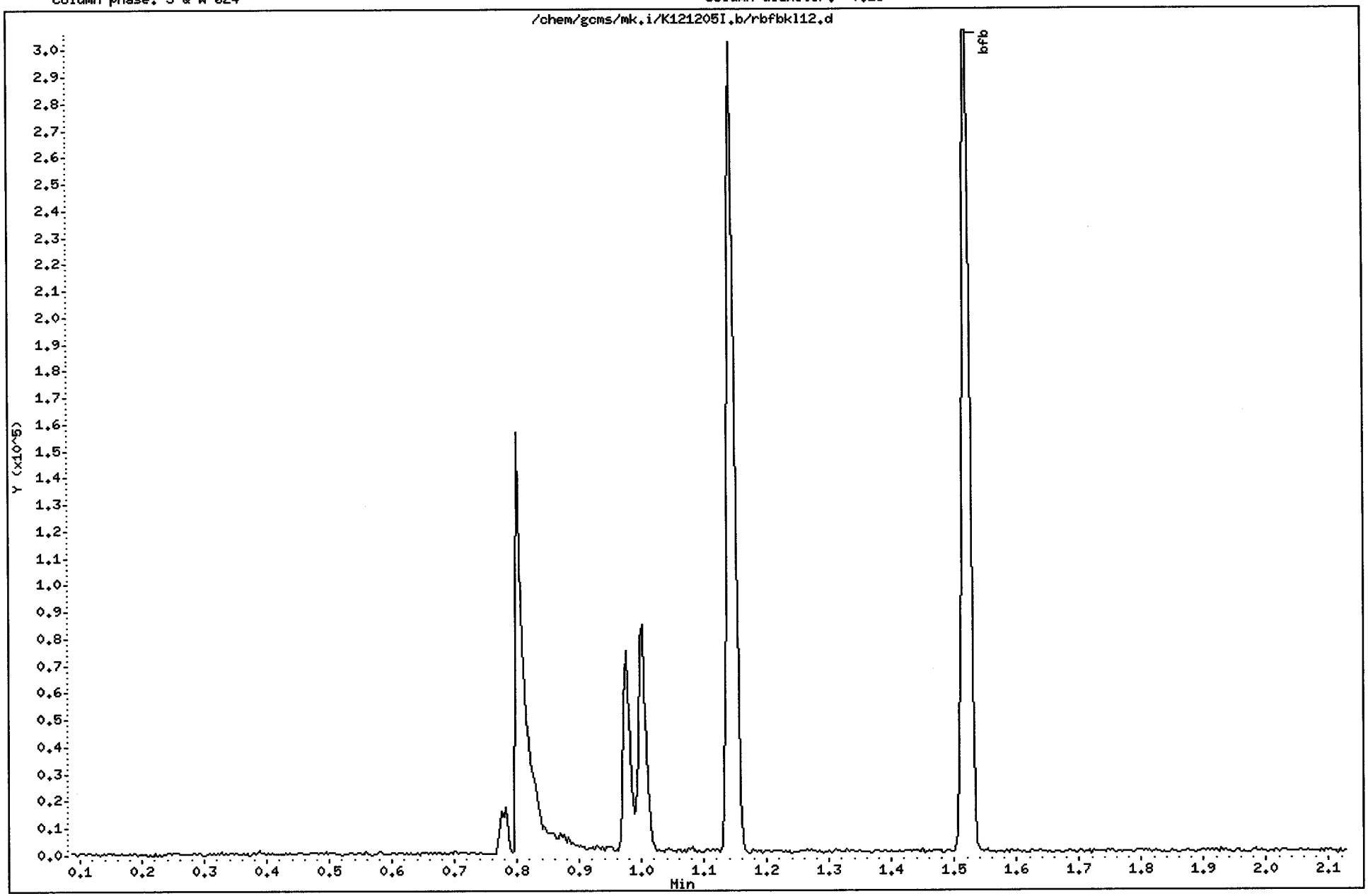
m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	331	61.00	2691	87.00	3071	141.00	571
37.00	2379	62.00	2580	88.00	2655	142.00	58
38.00	2165	63.00	1949	92.00	1579	143.00	556
39.00	1048	64.00	115	93.00	2526	146.00	171
40.00	233	67.00	129	94.00	6740	147.00	58
42.00	61	68.00	5459	95.00	66512	148.00	53
43.00	81	69.00	5726	96.00	4611	154.00	53
44.00	157	70.00	478	97.00	179	172.00	57
45.00	569	72.00	320	104.00	189	173.00	148
46.00	53	73.00	2064	106.00	224	174.00	47936
47.00	1332	74.00	8522	115.00	57	175.00	3614
48.00	327	75.00	29320	116.00	154	176.00	46288
49.00	2305	76.00	2427	117.00	334	177.00	2896
50.00	10276	77.00	289	118.00	50	178.00	50
51.00	3278	78.00	419	119.00	245	254.00	50
52.00	250	79.00	632	127.00	58	297.00	72
55.00	60	80.00	377	128.00	257		
56.00	852	81.00	1029	130.00	117		
57.00	1484	82.00	191	135.00	86		
60.00	501	86.00	108	139.00	52		

Data File: /chem/gcms/mk.i/K121205I.b/rbfbkl12.d
Date : 12-DEC-2005 15:18
Client ID:
Sample Info: RBFBKL12,1,3,TUNE

Instrument: mk.i

Operator: 063605
Column diameter: 0.18

Column phase: J & W 624



Data File: /var/chem/gcms/mk.i/K020306I.b/bfbkb03.d

Date : 03-FEB-2006 11:39

Client ID:

Instrument: mk.i

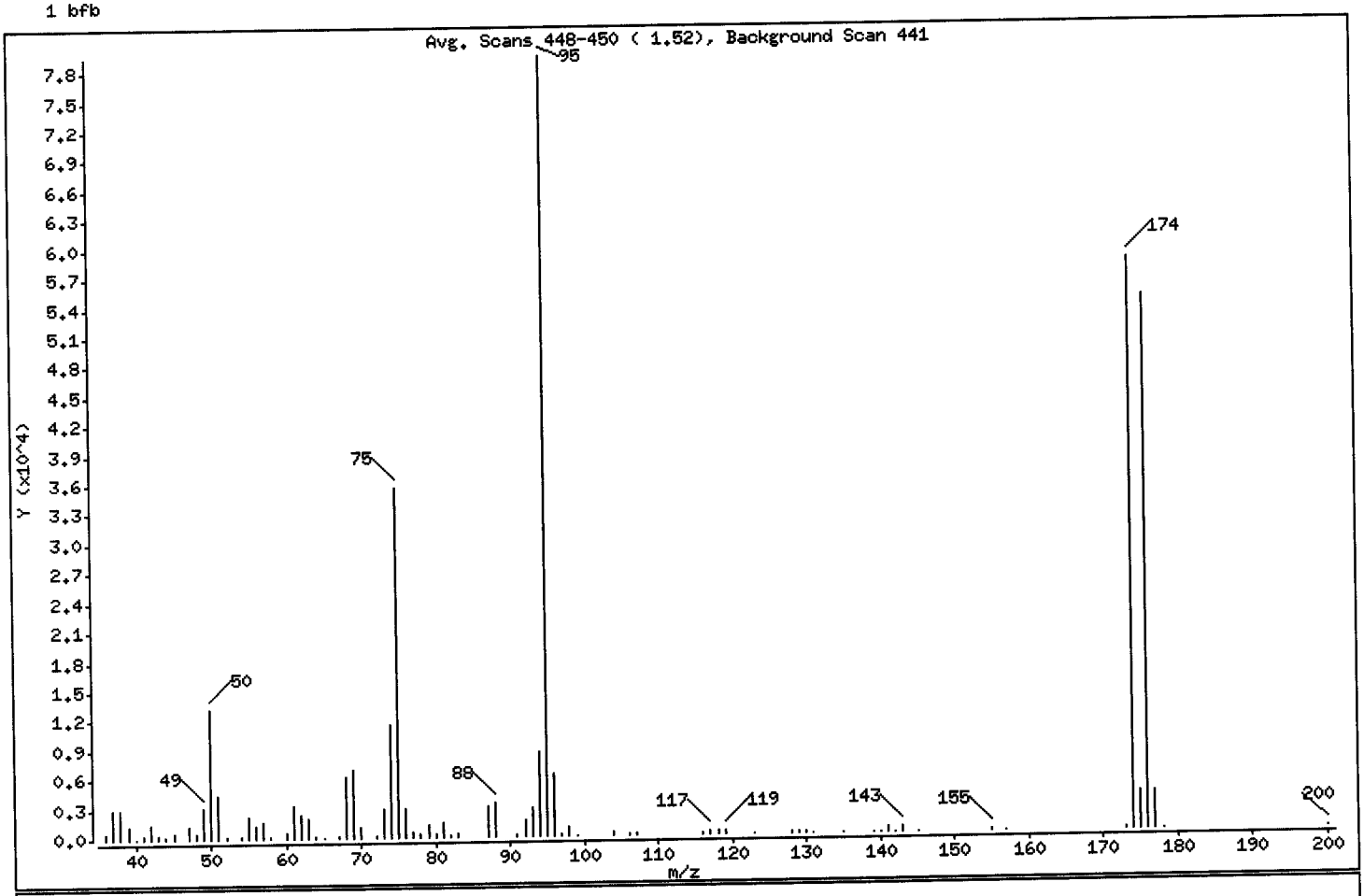
Sample Info: BFBKB03,1,3,TUNE

Operator: 60487

Column phase: J & W 624

Column diameter: 0.18

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	16.36
75	30.00 - 60.00% of mass 95	44.11
96	5.00 - 9.00% of mass 95	7.10
173	Less than 2.00% of mass 174	0.53 (0.73)
174	50.00 - 120.00% of mass 95	72.97
175	5.00 - 9.00% of mass 174	5.05 (6.93)
176	95.00 - 101.00% of mass 174	72.65 (99.57)
177	5.00 - 9.00% of mass 176	4.28 (5.89)

Data File: /var/chem/gcms/mk.i/K020306I.b/bfbkb03.d

Date : 03-FEB-2006 11:39

Client ID:

Instrument: mk.i

Sample Info: BFBKB03,1,3,TUNE

Operator: 60487

Column phase: J & W 624

Column diameter: 0.18

Data File: bfbkb03.d
Spectrum: Avg. Scans 448-450 (1.52), Background Scan 441
Location of Maximum: 95.00
Number of points: 82

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	546	60.00	635	83.00	282	129.00	138
37.00	2868	61.00	3339	87.00	3089	130.00	192
38.00	2923	62.00	2464	88.00	3389	131.00	59
39.00	1341	63.00	2088	91.00	183	135.00	64
40.00	71	64.00	159	92.00	1703	139.00	72
41.00	356	65.00	58	93.00	2993	140.00	50
42.00	1404	67.00	124	94.00	8559	141.00	569
43.00	305	68.00	6171	95.00	79496	142.00	73
44.00	123	69.00	6880	96.00	6309	143.00	582
45.00	525	70.00	1009	97.00	251	145.00	53
47.00	1188	72.00	171	98.00	889	155.00	129
48.00	580	73.00	2891	99.00	62	157.00	58
49.00	3103	74.00	11596	104.00	352	173.00	270
50.00	13233	75.00	35696	106.00	255	174.00	58360
51.00	4450	76.00	2878	107.00	107	175.00	3911
52.00	247	77.00	496	116.00	135	176.00	54512
54.00	105	78.00	350	117.00	448	177.00	3752
55.00	2198	79.00	1358	118.00	299	178.00	80
56.00	1317	80.00	428	119.00	342	200.00	81
57.00	1725	81.00	1425	123.00	71		
58.00	125	82.00	185	128.00	255		

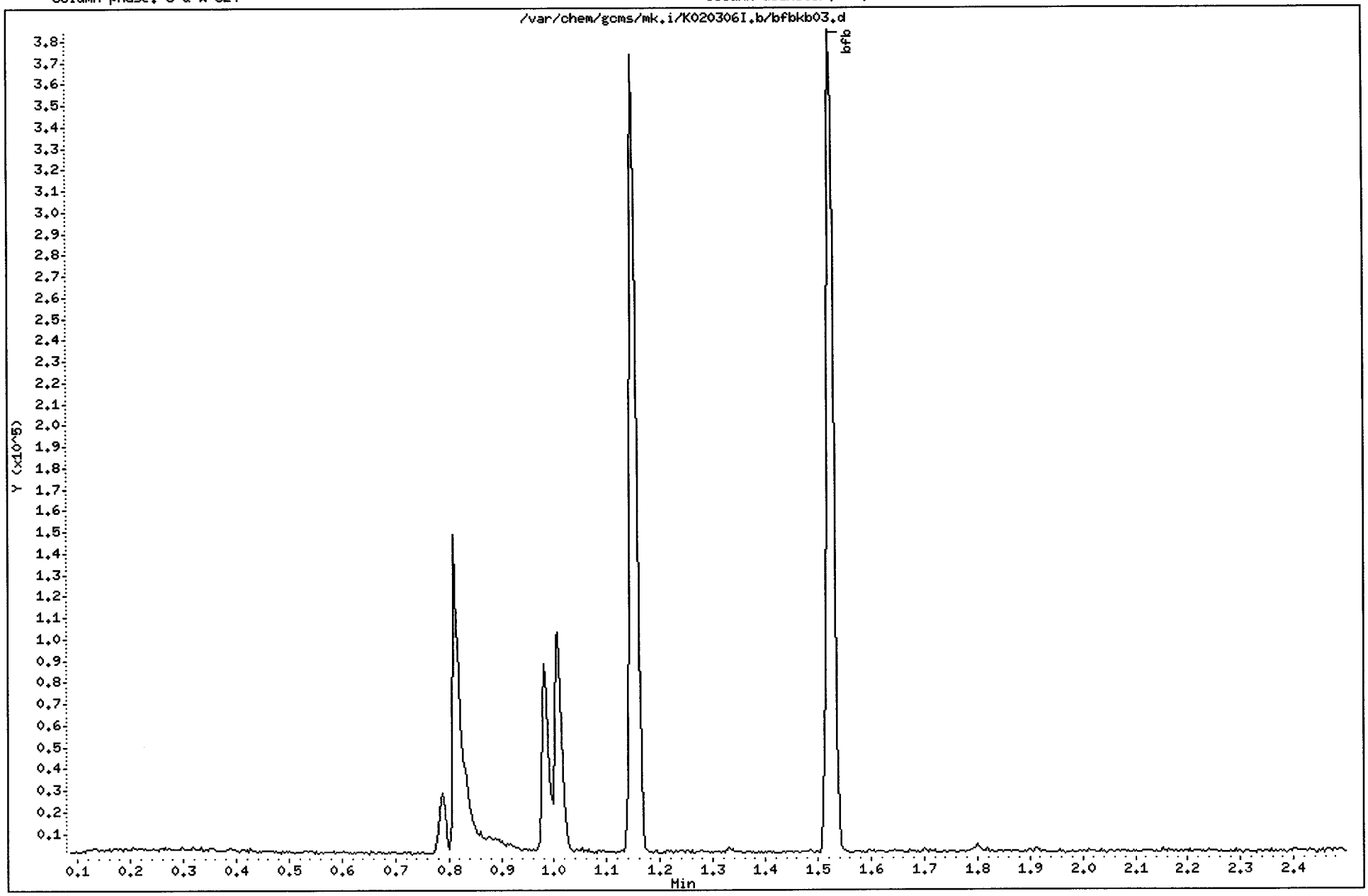
Data File: /var/chem/gcms/mk.i/K020306I.b/bfbkb03.d
Date : 03-FEB-2006 11:39
Client ID:
Sample Info: BFBKB03,1,3,TUNE

Instrument: mk.i

Operator: 60487

Column phase: J & W 624

Column diameter: 0.18



Report Date: 03-Feb-2006 15:05

Calibration History

Method : /var/chem/gcms/mk.i/K020306I.b/MS8260NM.m
Start Cal Date: 12-OCT-2005 13:58
End Cal Date : 03-FEB-2006 14:40

Initial Calibration

Injection Date	Sublist	Calibration File
Cal Level: 1 , Cal Amount: 1.50000		
03-FEB-2006 12:19	freon	fickb031.d
12-DEC-2005 15:38	all	icvkj121.d
Cal Level: 3 , Cal Amount: 50.00000		
03-FEB-2006 13:29	freon	fickb033.d
12-DEC-2005 16:48	all	icvkl123.d
Cal Level: 4 , Cal Amount: 100.00000		
03-FEB-2006 13:53	freon	fickb034.d
12-DEC-2005 17:11	all	icvkl124.d
Cal Level: 5 , Cal Amount: 250.00000		
03-FEB-2006 14:16	freon	fickb035.d
12-DEC-2005 17:35	all	icvkl125.d
Cal Level: 6 , Cal Amount: 5.00000		
03-FEB-2006 12:42	freon	fickb036.d
12-DEC-2005 16:01	all	icvkl126.d
Cal Level: 7 , Cal Amount: 10.00000		
03-FEB-2006 13:05	freon	fickb037.d
12-DEC-2005 16:25	all	icvkl127.d
Cal Level: 8 , Cal Amount: 400.00000		
03-FEB-2006 14:40	freon	fickb038.d
12-DEC-2005 17:58	all	icvkl128.d

Report Date : 06-Feb-2006 10:11

STL Knoxville

INITIAL CALIBRATION DATA

Start Cal Date : 12-OCT-2005 13:58
End Cal Date : 03-FEB-2006 14:40
Quant Method : ISTD
Target Version : 3.50
Integrator : HP RTE
Method file : /var/chem/gcms/mk.i/K020306I.b/MS8260NM.m
Cal Date : 03-Feb-2006 15:30 wilesd

Calibration File Names:
Level 1: /var/chem/gcms/mk.i/K020306I.b/fickb031.d
Level 3: /var/chem/gcms/mk.i/K020306I.b/fickb033.d
Level 4: /var/chem/gcms/mk.i/K020306I.b/fickb034.d
Level 5: /var/chem/gcms/mk.i/K020306I.b/fickb035.d
Level 6: /var/chem/gcms/mk.i/K020306I.b/fickb036.d
Level 7: /var/chem/gcms/mk.i/K020306I.b/fickb037.d
Level 8: /var/chem/gcms/mk.i/K020306I.b/fickb038.d

Compound	2 Level 1	50 Level 3	100 Level 4	250 Level 5	5 Level 6	10 Level 7	Curve	Coefficients b	m1	m2	%RSD or R^2	
	400 Level 8											
M 8 1,2-Dichloroethene (total)	+++++	0.23111	0.24416	0.21632	0.26538	0.26668						
	0.20383						AVRG		0.23791		10.79070	
M 9 Xylene (total)	+++++	0.59788	0.59868	0.51950	0.73086	0.72576						
	0.44802						AVRG		0.60345		18.52027	
M 132 BTE(TOTAL)	3.28596	2.26871	2.38094	2.11448	2.59617	2.66624						
	2.01439						AVRG		2.47527		17.31726	<-
133 #1,1-Difluoroethene	+++++	0.04443	0.04342	0.03580	0.03538	0.03456						
	0.03632						AVRG		0.03832		11.46095	

Report Date : 06-Feb-2006 10:11

STL Knoxville

INITIAL CALIBRATION DATA

Start Cal Date : 12-OCT-2005 13:58
End Cal Date : 03-FEB-2006 14:40
Quant Method : ISTD
Target Version : 3.50
Integrator : HP RTE
Method file : /var/chem/gcms/mk.i/K020306I.b/MS8260NM.m
Cal Date : 03-Feb-2006 15:30 wilesd

Compound	2 Level 1	50 Level 3	100 Level 4	250 Level 5	5 Level 6	10 Level 7	Curve	Coefficients b	Coefficients m1	Coefficients m2	%RSD or R^2
	400 Level 8										
134 #1,1,1-Trifluoroethane	+++++	0.29250	0.29727	0.27458	0.23971	0.23635					
	0.27391						AVRG		0.26905		9.59239
10 Dichlorodifluoromethane	+++++	0.22841	0.24921	0.24483	0.23892	0.23430					
	0.23779						AVRG		0.23891		3.09845
135 #Chlorodifluoroethane	+++++	0.33095	0.33591	0.33083	0.30092	0.29549					
	0.34074						AVRG		0.32247		5.96277
11 Chloromethane (spcc)	+++++	275990	610041	1523911	45486	73660					
	2474863						LINR	-0.01344	0.29317		0.99961
12 Vinyl Chloride (ccc)	0.26821	0.20854	0.23168	0.22176	0.23276	0.22651					
	0.21933						AVRG		0.22983		8.18803
13 *1,3-Butadiene	+++++	0.14478	0.15994	0.15221	0.19091	0.16319					
	0.15216						AVRG		0.16053		10.11388
136 #Chlorohexafluorobutene	+++++	0.18123	0.17926	0.16356	0.17863	0.17557					
	0.15408						AVRG		0.17205		6.29765

Report Date : 06-Feb-2006 10:11

STL Knoxville

INITIAL CALIBRATION DATA

Start Cal Date : 12-OCT-2005 13:58
End Cal Date : 03-FEB-2006 14:40
Quant Method : ISTD
Target Version : 3.50
Integrator : HP RTE
Method file : /var/chem/gcms/mk.i/K020306I.b/MS8260NM.m
Cal Date : 03-Feb-2006 15:30 wilesd

Compound	2 Level 1	50 Level 3	100 Level 4	250 Level 5	5 Level 6	10 Level 7	Curve	Coefficients b	m1	m2	%RSD or R^2
	400 Level 8										
137 #Chlorotrifluoroethane	+++++	0.21861	0.21926	0.19646	0.21335	0.20384					
	0.19346						AVRG		0.20750		5.40212
138 #Pentafluorobutane	+++++	0.35482	0.35206	0.33046	0.35375	0.34922					
	0.32874						AVRG		0.34484		3.47052
14 Bromomethane	0.05470	0.04315	0.05007	0.05689	0.06878	0.05754					
	+++++						AVRG		0.05519		15.46868
139 #DCDFE	+++++	0.11183	0.11598	0.10927	0.11216	0.10459					
	0.10908						AVRG		0.11049		3.46035
15 Chloroethane	+++++	81778	178290	462703	11527	18576					
	731597						LINR	0.00398	0.08749		0.99970
16 *Vinyl Bromide	0.13015	0.10170	0.11467	0.11146	0.10816	0.11474					
	0.11394						AVRG		0.11355		7.64644
140 #Chlorohexafluorobutane	+++++	0.14345	0.14870	0.13686	0.14584	0.13639					
	0.13646						AVRG		0.14128		3.83984

Report Date : 06-Feb-2006 10:11

STL Knoxville

INITIAL CALIBRATION DATA

Start Cal Date : 12-OCT-2005 13:58
End Cal Date : 03-FEB-2006 14:40
Quant Method : ISTD
Target Version : 3.50
Integrator : HP RTE
Method file : /var/chem/gcms/mk.i/K020306I.b/MS8260NM.m
Cal Date : 03-Feb-2006 15:30 wilesd

Compound	2 Level 1	50 Level 3	100 Level 4	250 Level 5	5 Level 6	10 Level 7	Curve	Coefficients b	m1	m2	%RSD or R^2
	400 Level 8										
17 Trichlorofluoromethane	+++++	187544	333622	963001	28881	54417					
	+++++						LINR	-0.01471	0.18083		0.99578
141 #DCFEa (freon 141)	11689	367569	656106	1223815	35642	68365					
	1985490						QUAD	-0.11003	3.85310	0.28164	0.99320
142 #DCTFEa (freon 123)	+++++	0.26061	0.25787	0.25477	0.26324	0.24164					
	0.25768						AVRG		0.25597		2.96319
18 *2-Chloropropane	10600	351869	504800	895031	37451	75770					
	+++++						QUAD	0.03256	1.25178	5.34641	0.99931
19 1,1-Dichloroethene (ccc)	+++++	0.17221	0.19402	0.18187	0.19587	0.19938					
	0.17611						AVRG		0.18658		6.08295
20 *Freon 113	+++++	0.13084	0.14959	0.13738	0.17085	0.16022					
	0.13083						AVRG		0.14662		11.26934
21 Acetone	+++++	0.04552	0.05075	0.04880	0.06160	0.05852					
	+++++						AVRG		0.05304		12.75391

Report Date : 06-Feb-2006 10:11

STL Knoxville

INITIAL CALIBRATION DATA

Start Cal Date : 12-OCT-2005 13:58
End Cal Date : 03-FEB-2006 14:40
Quant Method : ISTD
Target Version : 3.50
Integrator : HP RTE
Method file : /var/chem/gcms/mk.i/K020306I.b/MS8260NM.m
Cal Date : 03-Feb-2006 15:30 wilesd

Compound	2 Level 1	50 Level 3	100 Level 4	250 Level 5	5 Level 6	10 Level 7	Curve	Coefficients b	m1	m2	%RSD or R^2
	400 Level 8										
22 *Iodomethane	+++++	0.22609	0.24952	0.21834	0.21048	0.22825					
	0.18981						AVRG		0.22041		9.02856
23 Carbon Disulfide	+++++	0.68700	0.75151	0.71097	0.83026	0.78939					
	0.69454						AVRG		0.74394		7.68538
24 *2-Propanol	+++++	0.01512	0.02077	0.02147	0.02102	0.02026					
	0.01955						AVRG		0.01970		11.86595
25 *Acetonitrile	+++++	0.01196	0.01230	0.01289	0.01270	0.01325					
	0.01250						AVRG		0.01260		3.60198
26 Methylene Chloride	+++++	0.21565	0.23842	0.22677	0.26453	0.25727					
	0.22342						AVRG		0.23768		8.22958
144 #1,2-DCDFEa	+++++	0.45850	0.45539	0.42757	0.42808	0.43663					
	0.42884						AVRG		0.43917		3.23244
27 *Acrylonitrile	+++++	0.06623	0.06910	0.06378	0.06955	0.07313					
	0.05796						AVRG		0.06662		7.95192

Report Date : 06-Feb-2006 10:11

STL Knoxville

INITIAL CALIBRATION DATA

Start Cal Date : 12-OCT-2005 13:58
End Cal Date : 03-FEB-2006 14:40
Quant Method : ISTD
Target Version : 3.50
Integrator : HP RTE
Method file : /var/chem/gcms/mk.i/K020306I.b/MS8260NM.m
Cal Date : 03-Feb-2006 15:30 wilesd

Compound	2 Level 1	50 Level 3	100 Level 4	250 Level 5	5 Level 6	10 Level 7	Curve	Coefficients b	 m1	 m2	%RSD or R^2
	400 Level 8										
28 *T-Butanol	+++++	0.02261	0.02419	0.02400	0.02271	0.02445					
	0.02302						AVRG		0.02350		3.44619
29 trans-1,2-Dichloroethene	+++++	0.21441	0.22705	0.20374	0.24613	0.25071					
	0.19012						AVRG		0.22203		10.73320
30 *MTBE	+++++	0.61472	0.64927	0.60773	0.66569	0.68859					
	0.59169						AVRG		0.63628		5.89667
31 *Hexane	+++++	0.36376	0.38309	0.34020	0.42329	0.42579					
	0.31578						AVRG		0.37532		11.80851
32 1,1-Dichloroethane (spcc)	0.53416	0.40431	0.43127	0.40698	0.45279	0.45008					
	0.37872						AVRG		0.43690		11.54264
33 *Vinyl Acetate	+++++	0.03930	0.03970	0.03928	0.04147	0.04087					
	+++++						AVRG		0.04012		2.47820
145 #1,1-DCDFEa	+++++	0.25638	0.25665	0.24133	0.25194	0.24254					
	0.23842						AVRG		0.24788		3.26147

Report Date : 06-Feb-2006 10:11

STL Knoxville

INITIAL CALIBRATION DATA

Start Cal Date : 12-OCT-2005 13:58
End Cal Date : 03-FEB-2006 14:40
Quant Method : ISTD
Target Version : 3.50
Integrator : HP RTE
Method file : /var/chem/gcms/mk.i/K020306I.b/MS8260NM.m
Cal Date : 03-Feb-2006 15:30 wilesd

Compound	2 Level 1	50 Level 3	100 Level 4	250 Level 5	5 Level 6	10 Level 7	Curve	Coefficients b	m1	m2	%RSD or R^2
	400 Level 8										
34 2,2-Dichloropropane	+++++	0.31349	0.34086	0.31740	0.32129	0.32180					
	0.30822						AVRG		0.32051		3.49214
35 cis 1,2-Dichloroethene	+++++	0.24780	0.26127	0.22889	0.28461	0.28264					
	0.21754						AVRG		0.25379		10.87461
36 2-Butanone	+++++	0.08452	0.08674	0.08170	0.09285	0.09509					
	0.07336						AVRG		0.08571		9.18689
37 *Propionitrile	+++++	0.11087	0.11728	0.11715	0.12071	0.12243					
	0.11478						AVRG		0.11720		3.53052
38 Bromochloromethane	+++++	0.08508	0.08948	0.08657	0.11004	0.10889					
	0.08267						AVRG		0.09379		13.16513
39 *THF	+++++	0.05546	0.05837	0.05801	0.05831	0.06296					
	0.05510						AVRG		0.05804		4.85569
40 Chloroform (ccc)	+++++	0.38727	0.42059	0.38765	0.42505	0.43909					
	0.37271						AVRG		0.40539		6.49284

Report Date : 06-Feb-2006 10:11

STL Knoxville

INITIAL CALIBRATION DATA

Start Cal Date : 12-OCT-2005 13:58
End Cal Date : 03-FEB-2006 14:40
Quant Method : ISTD
Target Version : 3.50
Integrator : HP RTE
Method file : /var/chem/gcms/mk.i/K020306I.b/MS8260NM.m
Cal Date : 03-Feb-2006 15:30 wilesd

Compound	2 Level 1	50 Level 3	100 Level 4	250 Level 5	5 Level 6	10 Level 7	Curve	Coefficients b	 m1	 m2	%RSD or R^2
	400 Level 8										
41 1,1,1-Trichloroethane	0.41670	0.30811	0.34734	0.32624	0.36174	0.36271					
	0.32770						AVRG		0.35008		10.14682
146 #TCDFEa	+++++	0.35543	0.35443	0.33028	0.35525	0.34316					
	0.32325						AVRG		0.34363		4.08373
42 Carbon Tetrachloride	+++++	0.25778	0.28639	0.25843	0.27251	0.29689					
	0.26144						AVRG		0.27224		5.97718
43 1,1-Dichloropropene	0.42082	0.29923	0.32664	0.28889	0.35487	0.35554					
	0.27066						AVRG		0.33095		15.44759
44 Benzene	+++++	0.93172	0.98775	0.87897	1.08593	1.10222					
	0.84525						AVRG		0.97197		10.93932
45 1,2-Dichloroethane	+++++	0.26868	0.28828	0.28085	0.29878	0.30326					
	0.26970						AVRG		0.28492		5.09019
147 #1,1,1,2-TCDFEa	+++++	0.18621	0.18457	0.16773	0.18812	0.17735					
	0.16212						AVRG		0.17768		6.01163

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INITIAL CALIBRATION DATA

Start Cal Date : 12-OCT-2005 13:58
End Cal Date : 03-FEB-2006 14:40
Quant Method : ISTD
Target Version : 3.50
Integrator : HP RTE
Method file : /var/chem/gcms/mk.i/K020306I.b/MS8260NM.m
Cal Date : 03-Feb-2006 15:30 wilesd

Compound	2 Level 1	50 Level 3	100 Level 4	250 Level 5	5 Level 6	10 Level 7	Curve	Coefficients b	m1	m2	%RSD or R^2
	400 Level 8										
148 #1,1,2,2-TCDFEa (freon 112)	+++++	0.25430	0.25954	0.23597	0.24538	0.24295					
	0.22896						AVRG		0.24452		4.62544
46 Trichloroethene	+++++	0.22232	0.23213	0.21813	0.25874	0.25981					
	0.20958						AVRG		0.23345		9.11691
149 #TCFEa	+++++	0.33341	0.32552	0.29768	0.31876	0.30543					
	0.29201						AVRG		0.31213		5.23455
47 1,2-Dichloropropane (ccc)	0.28461	0.22358	0.23685	0.22080	0.26677	0.24963					
	0.22176						AVRG		0.24343		10.19928
48 Dibromomethane	0.15580	0.11018	0.11762	0.11238	0.12357	0.12424					
	0.10554						AVRG		0.12133		13.74539
49 *Methyl Methacrylate	+++++	0.17424	0.19179	0.18496	0.18531	0.18041					
	0.17629						AVRG		0.18216		3.56339
50 Bromodichloromethane	0.34325	0.27007	0.30164	0.29339	0.28988	0.29268					
	0.29087						AVRG		0.29740		7.52488

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INITIAL CALIBRATION DATA

Start Cal Date : 12-OCT-2005 13:58
End Cal Date : 03-FEB-2006 14:40
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Target Version : 3.50
Integrator : HP RTE
Method file : /var/chem/gcms/mk.i/K020306I.b/MS8260NM.m
Cal Date : 03-Feb-2006 15:30 wilesd

Compound	2 Level 1	50 Level 3	100 Level 4	250 Level 5	5 Level 6	10 Level 7	Curve	Coefficients b	m1	m2	%RSD or R^2
	400 Level 8										
150 #Methoxyflurane	+++++	0.72588	0.72408	0.66692	0.72440	0.69233					
	0.66050						AVRG		0.69902		4.31672
51 *2-Chloroethylvinylether	+++++	0.05933	0.06710	0.06949	0.05885	0.05918					
	0.06726						AVRG		0.06354		7.73128
52 cis-1,3-Dichloropropene	0.42185	0.36010	0.38702	0.37042	0.36365	0.38307					
	0.35811						AVRG		0.37775		5.92872
53 4-Methyl-2-pentanone	+++++	0.26693	0.27413	0.28093	0.27231	0.28964					
	0.24891						AVRG		0.27214		5.07607
54 Toluene (ccc)	+++++	1.43841	1.52072	1.39979	1.60630	1.66294					
	1.28076						AVRG		1.48482		9.46710
55 trans-1,3-Dichloropropene	+++++	0.44692	0.48888	0.48965	0.41706	0.44436					
	0.45936						AVRG		0.45770		6.13438
56 *Ethyl Methacrylate	+++++	0.39493	0.42847	0.42960	0.39150	0.41177					
	0.40053						AVRG		0.40947		4.06569

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End Cal Date : 03-FEB-2006 14:40
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Target Version : 3.50
Integrator : HP RTE
Method file : /var/chem/gcms/mk.i/K020306I.b/MS8260NM.m
Cal Date : 03-Feb-2006 15:30 wilesd

Compound	2 Level 1	50 Level 3	100 Level 4	250 Level 5	5 Level 6	10 Level 7	Curve	Coefficients b	m1	m2	%RSD or R^2
	400 Level 8										
57 1,1,2-Trichloroethane	+++++	0.25753	0.27302	0.26985	0.28716	0.28175					
	0.24875						AVRG		0.26968		5.36809
58 Tetrachloroethene	+++++	0.25151	0.26024	0.22969	0.28090	0.28171					
	0.20125						AVRG		0.25088		12.41636
59 1,3-Dichloropropane	+++++	0.44964	0.47642	0.45407	0.49356	0.50625					
	0.41020						AVRG		0.46502		7.45272
60 2-Hexanone	+++++	0.19136	0.20092	0.20249	0.19081	0.20273					
	0.18443						AVRG		0.19546		3.91110
61 Chlorodibromomethane	0.30082	0.27162	0.29669	0.30115	0.26028	0.28698					
	0.28384						AVRG		0.28591		5.41355
62 1,2-Dibromoethane	+++++	0.24989	0.26408	0.26599	0.26878	0.27498					
	0.24946						AVRG		0.26220		3.95735
63 Chlorobenzene (spcc)	+++++	0.89257	0.91498	0.85025	1.00300	0.96891					
	0.76456						AVRG		0.89905		9.49699

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End Cal Date : 03-FEB-2006 14:40
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Target Version : 3.50
Integrator : HP RTE
Method file : /var/chem/gcms/mk.i/K020306I.b/MS8260NM.m
Cal Date : 03-Feb-2006 15:30 wilesd

Compound	2 Level 1	50 Level 3	100 Level 4	250 Level 5	5 Level 6	10 Level 7	Curve	Coefficients b	 m1	 m2	%RSD or R^2
	400 Level 8										
64 1,1,1,2-Tetrachloroethane	+++++	0.29363	0.30992	0.29526	0.33482	0.32339					
	0.27422						AVRG		0.30521		7.21262
65 Ethylbenzene (ccc)	+++++	0.49388	0.50787	0.45191	0.57997	0.55824					
	0.39913						AVRG		0.49850		13.41495
66 m&p-Xylene	34251	862186	1703643	3601435	97146	195240					
	+++++						QUAD	-0.01409	1.47514	0.09032	0.99979
67 o-Xylene	+++++	418334	835745	1842327	45177	93539					
	2690558						WLINR	-0.06980	0.49721		0.99102
68 Styrene	+++++	0.97365	0.98107	0.88613	1.12799	1.13844					
	0.77345						AVRG		0.98012		14.32187
69 Bromoform (spcc)	+++++	0.14962	0.16539	0.17551	0.12807	0.14394					
	0.16963						AVRG		0.15536		11.58096
70 Isopropylbenzene	+++++	1.47206	1.51593	1.42051	1.82037	1.75111					
	1.28998						AVRG		1.54500		13.10609

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Target Version : 3.50
Integrator : HP RTE
Method file : /var/chem/gcms/mk.i/K020306I.b/MS8260NM.m
Cal Date : 03-Feb-2006 15:30 wilesd

Compound	2 Level 1	50 Level 3	100 Level 4	250 Level 5	5 Level 6	10 Level 7	Curve	Coefficients b	 m1	 m2	%RSD or R^2
	400 Level 8										
71 *cis-1,4-Dichloro-2-butene	+++++	0.10447	0.11187	0.11886	0.09997	0.10711					
	0.11429						AVRG		0.10943		6.30533
72 Bromobenzene	+++++	0.73649	0.76302	0.67102	0.87881	0.86412					
	0.65099						AVRG		0.76074		12.51411
73 1,1,2,2-Tetrachloroethane(sp)	+++++	0.69443	0.73471	0.68822	0.79256	0.78977					
	0.68454						AVRG		0.73071		6.86528
74 1,2,3-Trichloropropane	+++++	0.21782	0.23517	0.23344	0.23489	0.24840					
	0.23759						AVRG		0.23455		4.18916
75 *trans-1,4-Dichloro-2-butene	+++++	0.17418	0.19860	0.20459	0.16787	0.17724					
	0.21280						AVRG		0.18921		9.76157
76 n-Propylbenzene	+++++	4.12465	4.33355	3.80956	5.14381	4.92524					
	3.66346						AVRG		4.33338		13.74503
77 2-Chlorotoluene	+++++	2.48479	2.61508	2.33383	3.03566	2.89555					
	2.28520						AVRG		2.60835		11.63083

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Method file : /var/chem/gcms/mk.i/K020306I.b/MS8260NM.m
Cal Date : 03-Feb-2006 15:30 wilesd

Compound	2 Level 1	50 Level 3	100 Level 4	250 Level 5	5 Level 6	10 Level 7	Curve	Coefficients b	 m1	 m2	%RSD or R^2
	400 Level 8										
78 1,3,5-Trimethylbenzene	32417	844696	1669704	3855925	92588	190928					
	5652362						QUAD	-0.02508	0.33270	0.00469	0.99970
79 4-Chlorotoluene	+++++	2.76420	2.83073	2.45659	3.43785	3.33021					
	+++++						AVRG		2.96391		13.84733
80 tert-Butylbenzene	+++++	2.42848	2.58000	2.33314	3.02418	2.93540					
	2.27267						AVRG		2.59564		12.18891
81 1,2,4-Trimethylbenzene	+++++	2.92878	3.02534	2.76105	3.56770	3.47899					
	2.65891						AVRG		3.07013		12.19919
82 sec-Butylbenzene	+++++	3.46445	3.67386	3.32276	4.28184	4.20464					
	3.19579						AVRG		3.69056		12.38957
83 1,3-Dichlorobenzene	+++++	1.37446	1.42831	1.34535	1.69851	1.65445					
	1.30803						AVRG		1.46819		11.35043
84 p-Isopropyltoluene	+++++	2.96343	3.07929	2.75731	3.62567	3.58416					
	2.57810						AVRG		3.09799		13.84331

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Method file : /var/chem/gcms/mk.i/K020306I.b/MS8260NM.m
Cal Date : 03-Feb-2006 15:30 wilesd

Compound	2 Level 1	50 Level 3	100 Level 4	250 Level 5	5 Level 6	10 Level 7	Curve	Coefficients b	 m1	 m2	%RSD or R^2
	400 Level 8										
85 1,4-Dichlorobenzene	+++++	1.35807	1.40101	1.31093	1.70547	1.62945					
	1.26147						AVRG		1.44440		12.50078
86 1,2-Dichlorobenzene	+++++	1.25921	1.31512	1.25250	1.55219	1.51468					
	1.19130						AVRG		1.34750		11.11259
87 n-Butylbenzene	+++++	828809	1606107	3827476	93684	192031					
	5366747						WLINR	-0.07302	2.41398		0.99311
88 1,2-Dibromo-3-chloropropane	0.13323	0.11812	0.13578	0.15769	0.10579	0.11966					
	+++++						AVRG		0.12838		14.05969
89 1,2,4-Trichlorobenzene	+++++	284903	525444	1289404	31092	66577					
	1838330						QUAD	-0.01795	0.98688	0.04910	0.99996
90 Hexachlorobutadiene	+++++	127329	255222	606522	14569	31517					
	844370						QUAD	0.01844	1.92430	0.30560	0.99972
91 Napthalene	+++++	2.38394	2.36523	2.31234	2.77929	2.82379					
	2.24288						AVRG		2.48458		10.09219

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Method file : /var/chem/gcms/mk.i/K020306I.b/MS8260NM.m
Cal Date : 03-Feb-2006 15:30 wilesd

Compound	2 Level 1	50 Level 3	100 Level 4	250 Level 5	5 Level 6	10 Level 7	Curve	Coefficients b	 m1	 m2	%RSD or R^2
	400 Level 8										
92 1,2,3-Trichlorobenzene	+++++ 1750000	258723	482182	1202512	29768	60548	WLINR	-0.04747	0.80355		0.99314
$ 4 1,2-Dichloroethane-d4	+++++ +++++	0.23220	0.21808	0.22121	0.26860	0.26462	AVRG		0.24094		9.98200
$ 5 Dibromofluoromethane	+++++ +++++	0.22446	0.20899	0.19957	0.23423	0.24372	AVRG		0.22219		8.11063
$ 6 Toluene-d8	+++++ +++++	1.33468	1.22583	1.16850	1.50008	1.42445	AVRG		1.33071		10.27624
$ 7 4-Bromofluorobenzene	+++++ +++++	1.22305	1.10683	1.02268	1.36790	1.33185	AVRG		1.21046		12.09112

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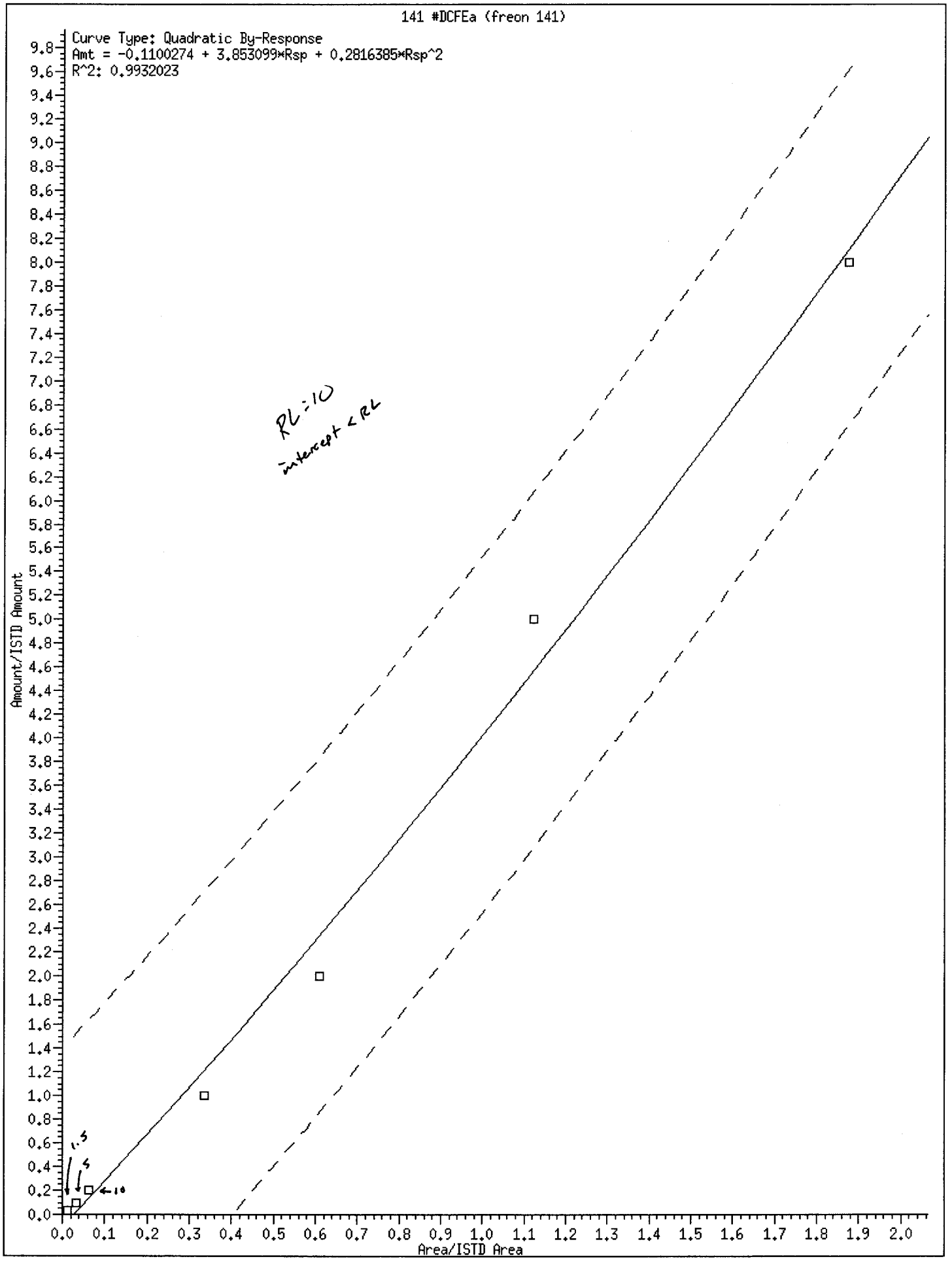
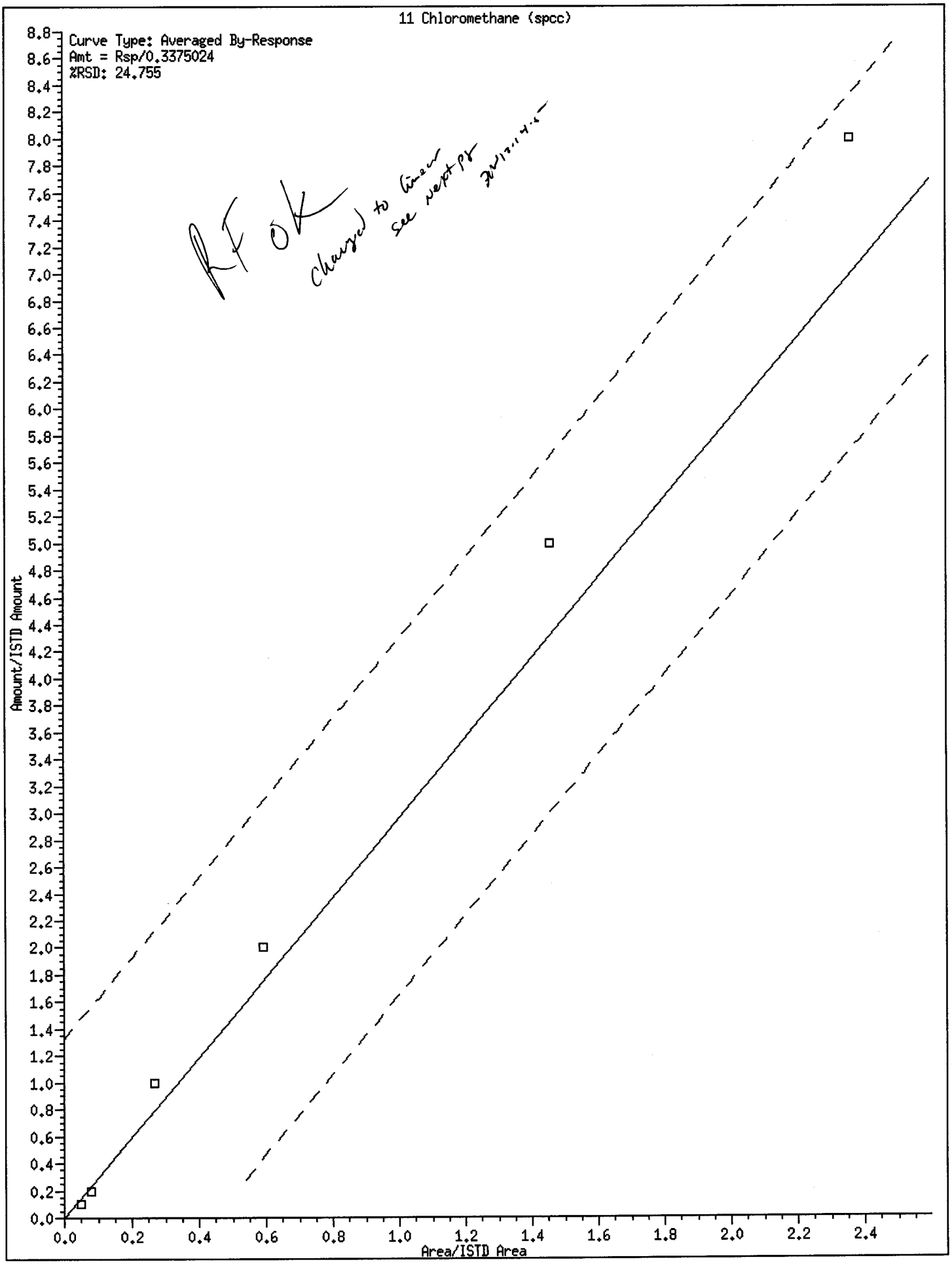
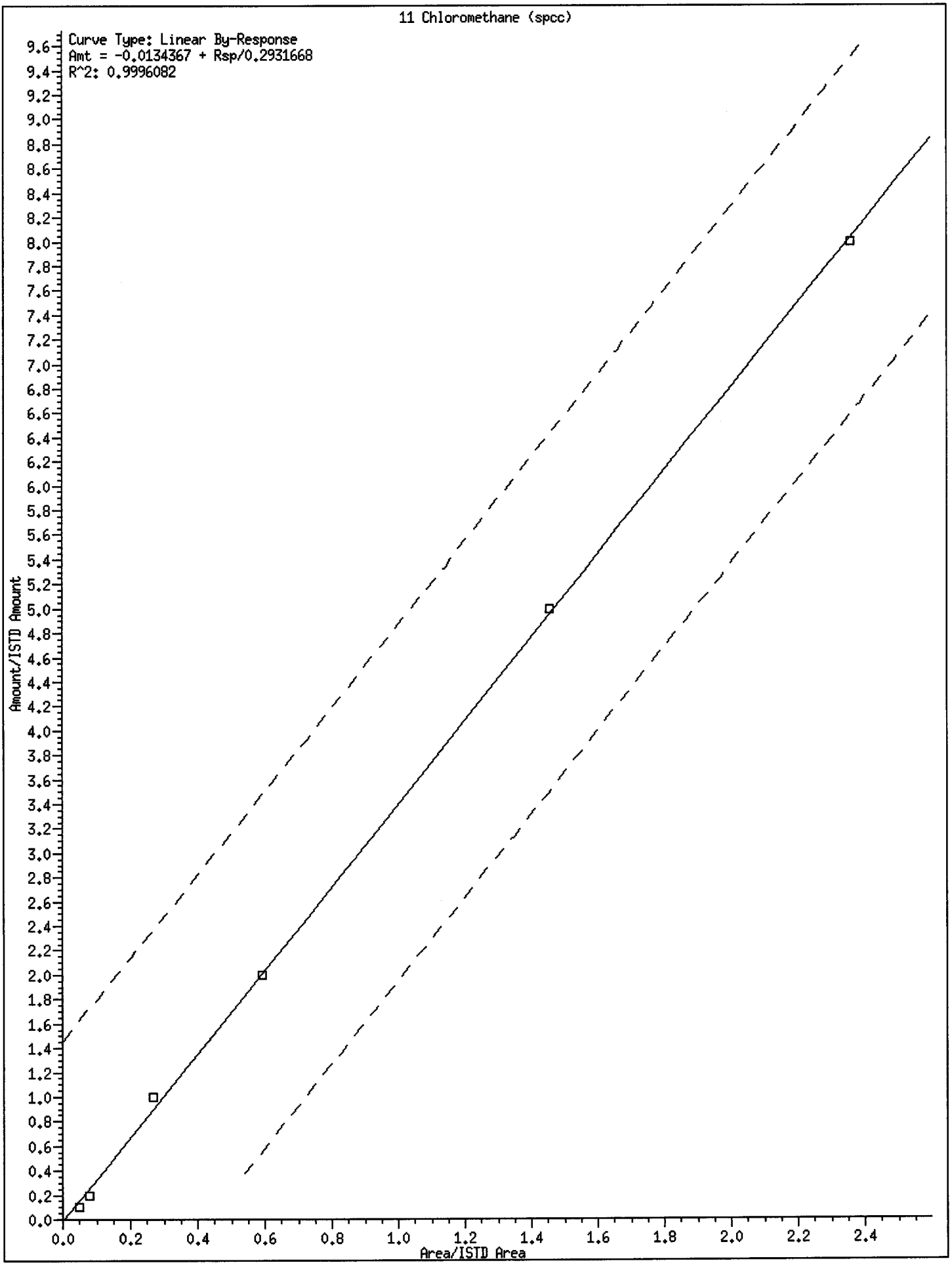
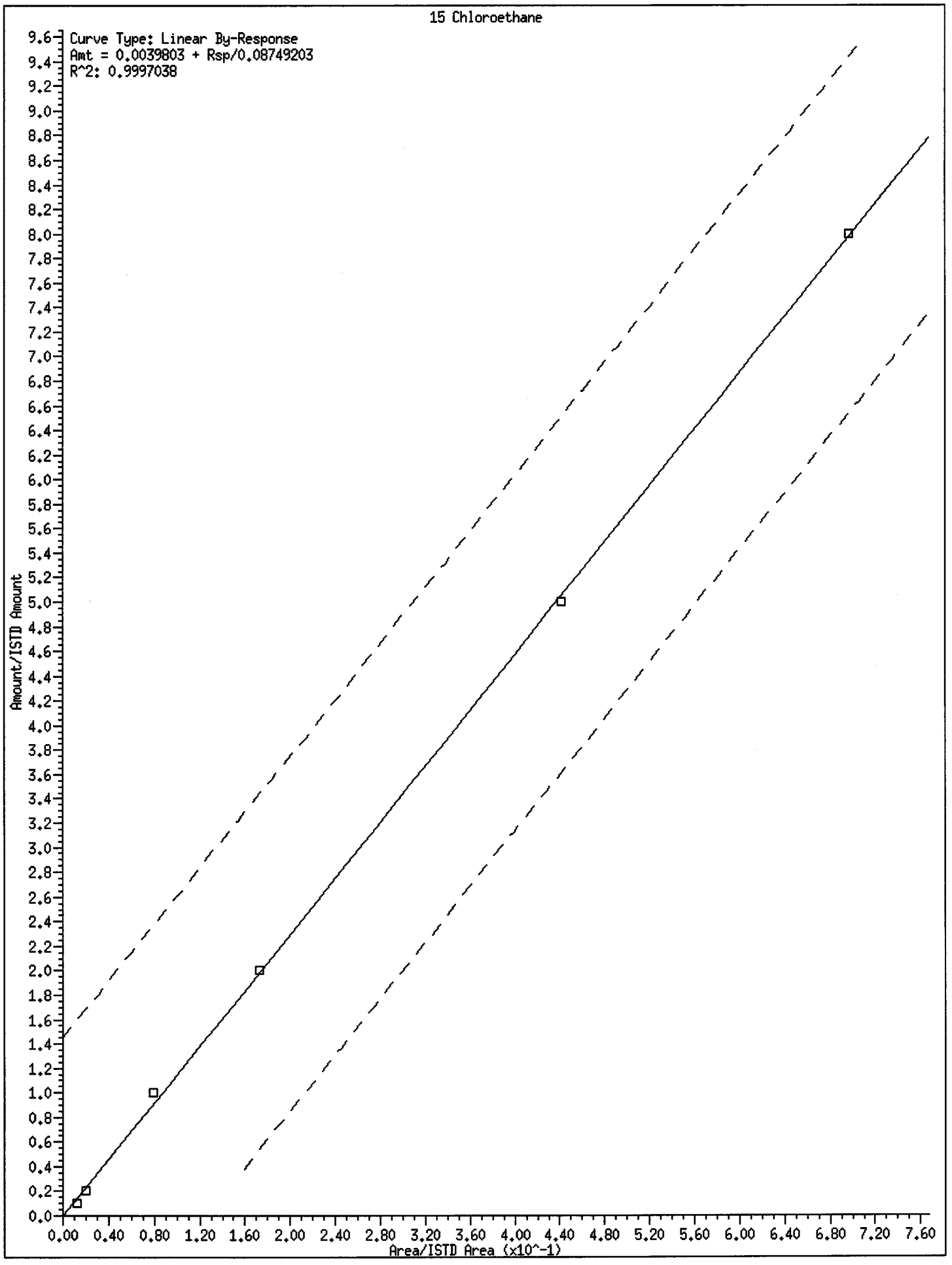
Cal Date : 03-Feb-2006 15:30 wilesd

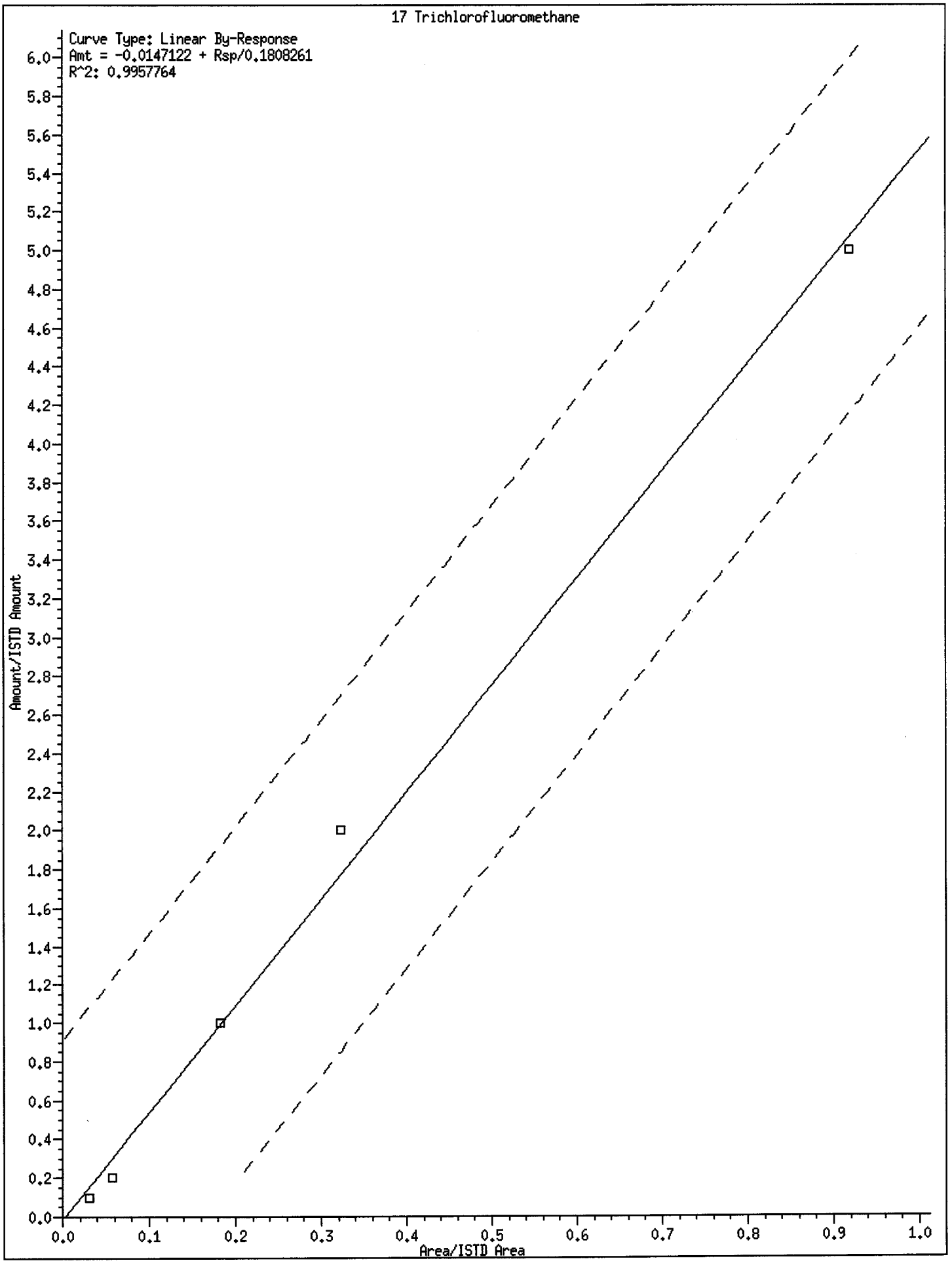
Curve	Formula	Units
Averaged	Amt = Rsp/m1	Response
Linear	Amt = b + Rsp/m1	Response
Wt Linear	Amt = b + Rsp/m1	Response
Quad	Amt = b + m1*Rsp + m2*Rsp^2	Response

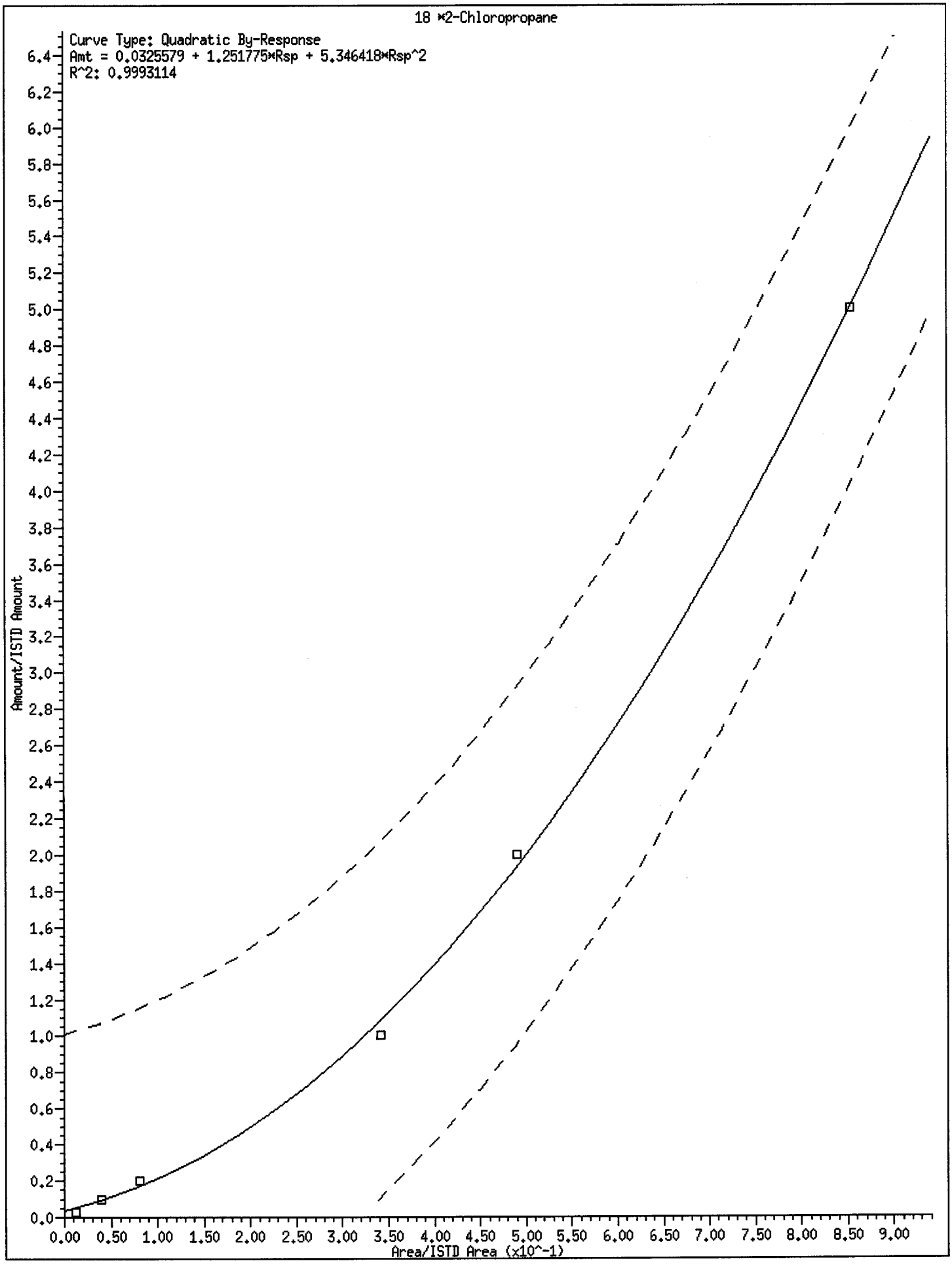

141 #DCFEa (freon 141)
Curve Type: Quadratic By-Response
Amt = -0.1100274 + 3.853099*Rsp + 0.2816385*Rsp^2
R^2: 0.9932023
RL=10
intercept < RL
Amount/ISTD Amount
Area/ISTD Area
1.5
5
10

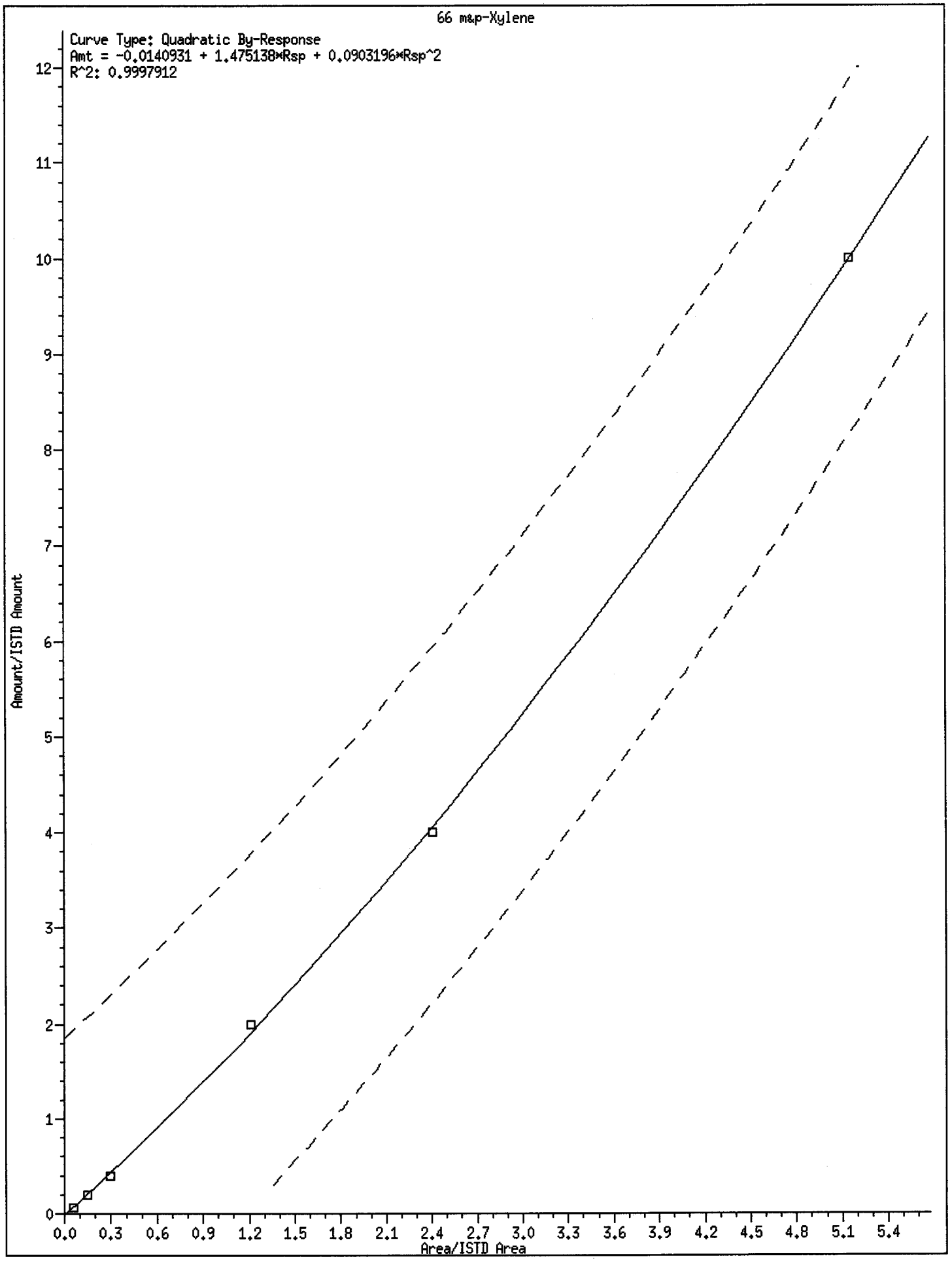

11 Chloromethane (spcc)
Curve Type: Averaged By-Response
Amt = Rsp/0.3375024
%RSD: 24.755
RF OK
changed to linear
see report pg
JW 12.14.16
Amount/ISTD Amount
Area/ISTD Area
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6
1.8
2.0
2.2
2.4
8.8
8.6
8.4
8.2
8.0
7.8
7.6
7.4
7.2
7.0
6.8
6.6
6.4
6.2
6.0
5.8
5.6
5.4
5.2
5.0
4.8
4.6
4.4
4.2
4.0
3.8
3.6
3.4
3.2
3.0
2.8
2.6
2.4
2.2
2.0
1.8
1.6
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0

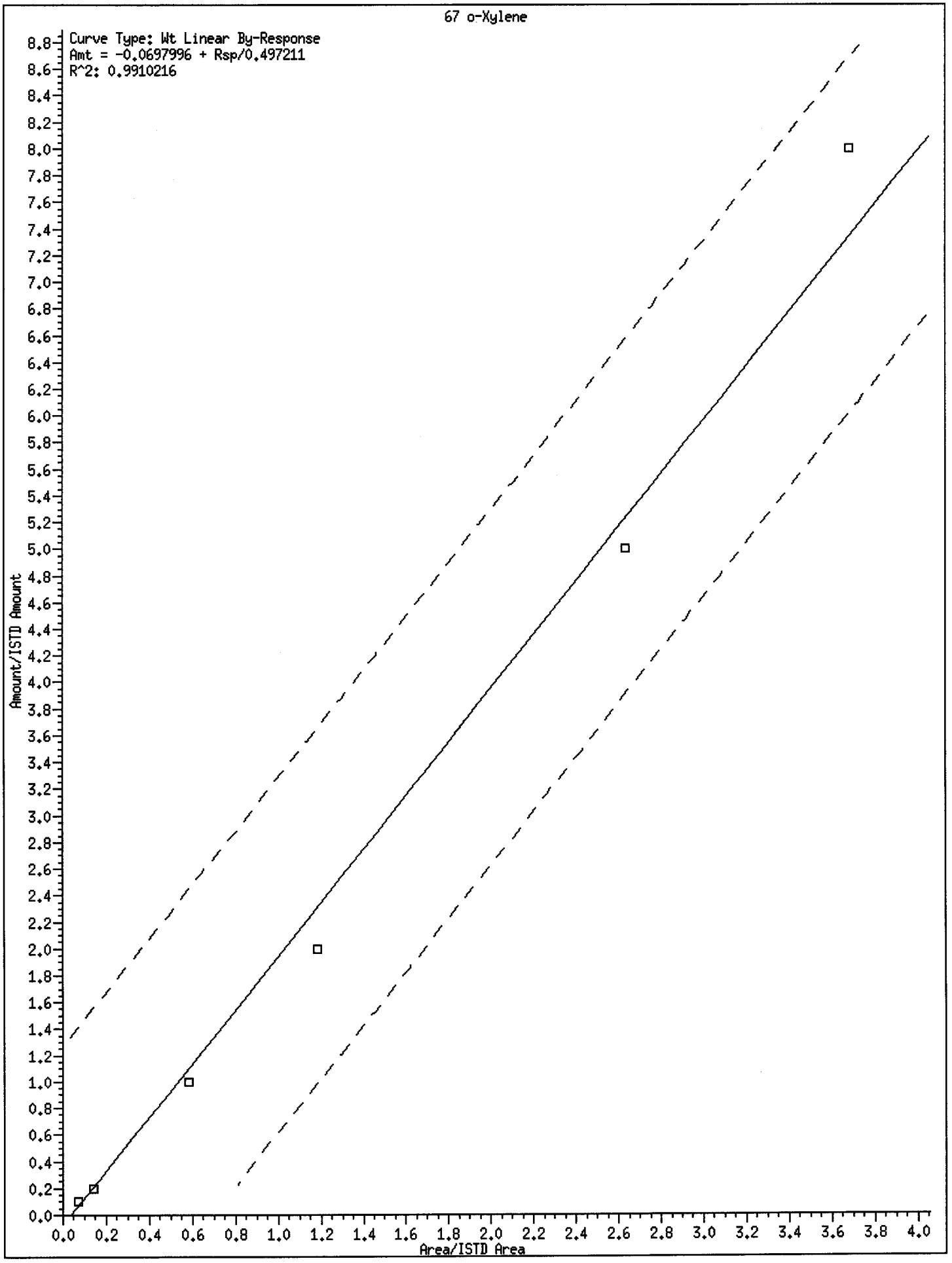

11 Chloromethane (spcc)
Curve Type: Linear By-Response
Amt = -0.0134367 + Rsp/0.2931668
R^2: 0.9996082
Amount/ISTD Amount
Area/ISTD Area
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6
1.8
2.0
2.2
2.4
9.6
9.4
9.2
9.0
8.8
8.6
8.4
8.2
8.0
7.8
7.6
7.4
7.2
7.0
6.8
6.6
6.4
6.2
6.0
5.8
5.6
5.4
5.2
5.0
4.8
4.6
4.4
4.2
4.0
3.8
3.6
3.4
3.2
3.0
2.8
2.6
2.4
2.2
2.0
1.8
1.6
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0

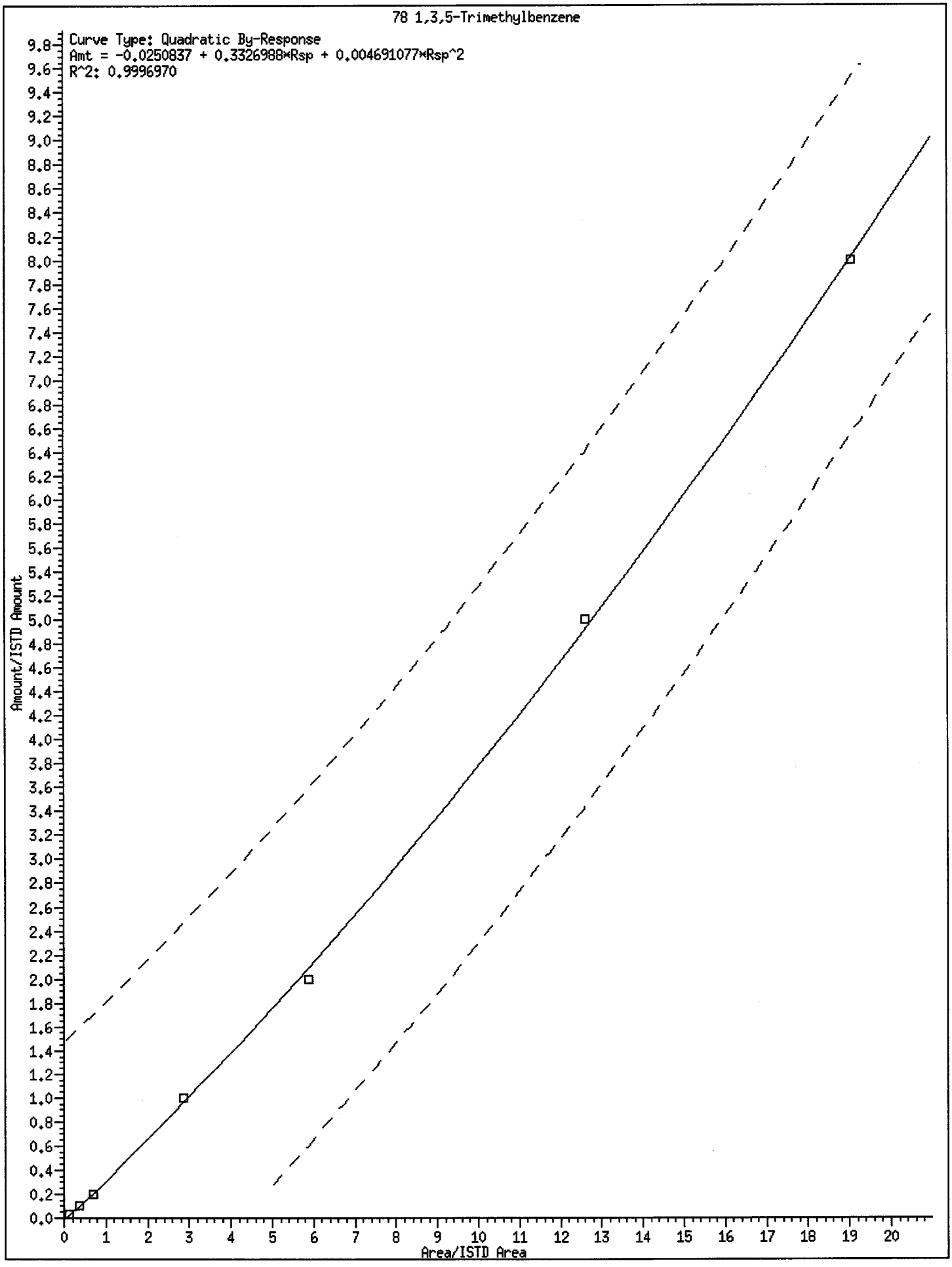

15 Chloroethane
Curve Type: Linear By-Response
Amt = 0.0039803 + Rsp/0.08749203
R^2: 0.9997038
Amount/ISTD Amount
Area/ISTD Area (x10^-1)

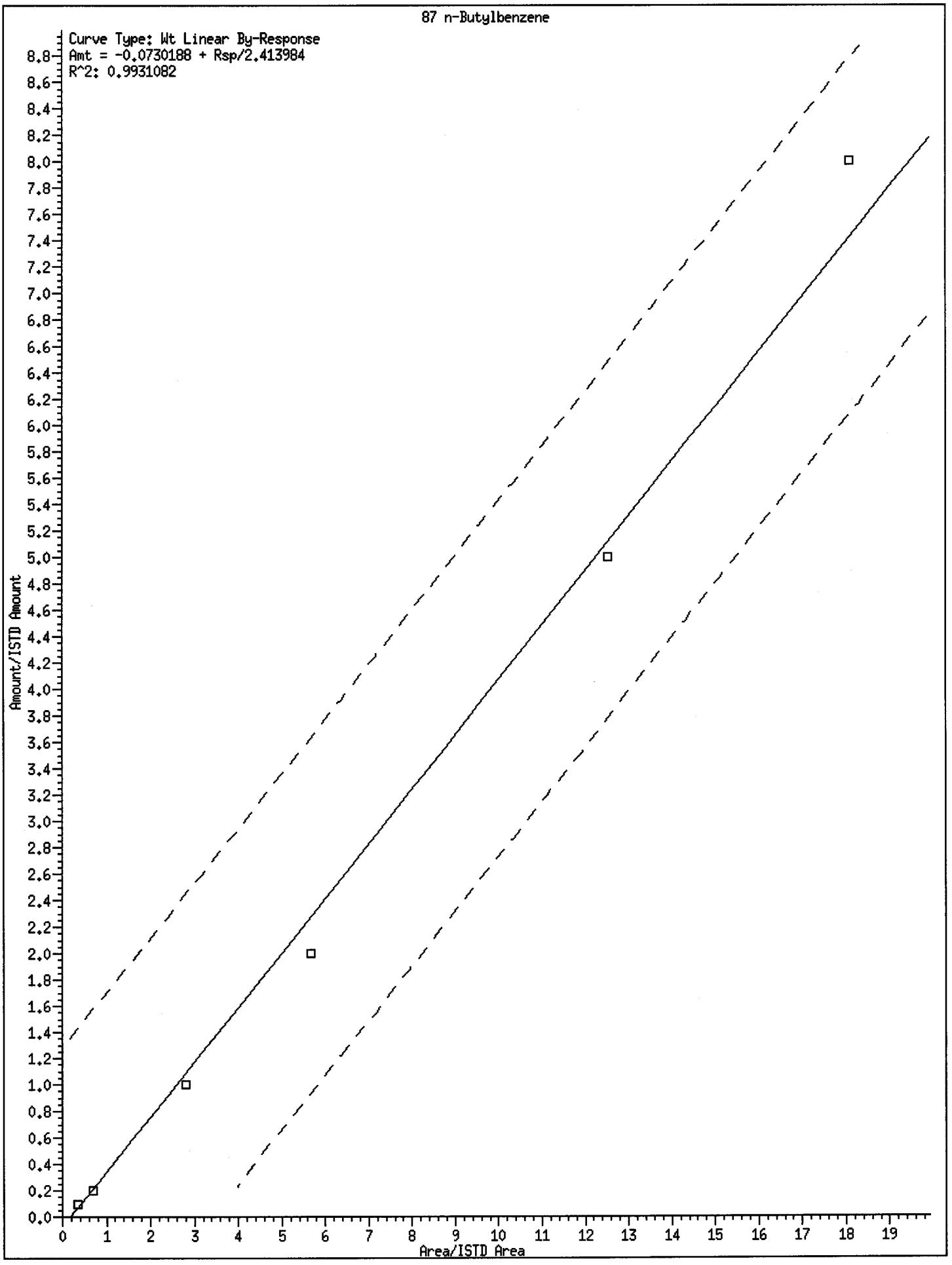

17 Trichlorofluoromethane
Curve Type: Linear By-Response
Amt = -0.0147122 + Rsp/0.1808261
R^2: 0.9957764
Amount/ISTD Amount
Area/ISTD Area
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6
1.8
2.0
2.2
2.4
2.6
2.8
3.0
3.2
3.4
3.6
3.8
4.0
4.2
4.4
4.6
4.8
5.0
5.2
5.4
5.6
5.8
6.0
0.1
0.3
0.5
0.7
0.9

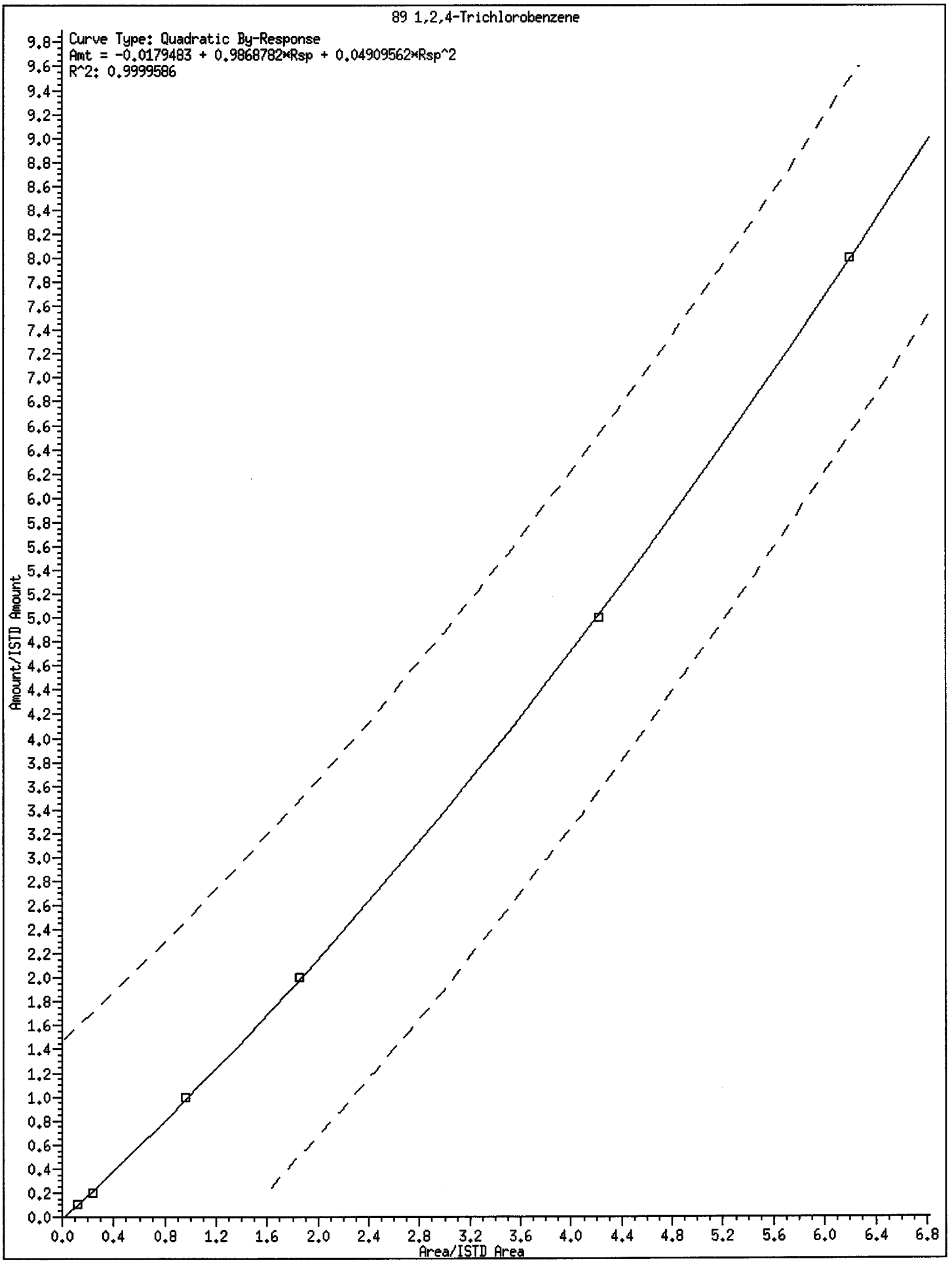

18 *2-Chloropropane
Curve Type: Quadratic By-Response
Amt = 0.0325579 + 1.251775*Rsp + 5.346418*Rsp^2
R^2: 0.9993114
Amount/ISTD Amount
Area/ISTD Area (x10^-1)
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6
1.8
2.0
2.2
2.4
2.6
2.8
3.0
3.2
3.4
3.6
3.8
4.0
4.2
4.4
4.6
4.8
5.0
5.2
5.4
5.6
5.8
6.0
6.2
6.4
0.00
0.50
1.00
1.50
2.00
2.50
3.00
3.50
4.00
4.50
5.00
5.50
6.00
6.50
7.00
7.50
8.00
8.50
9.00

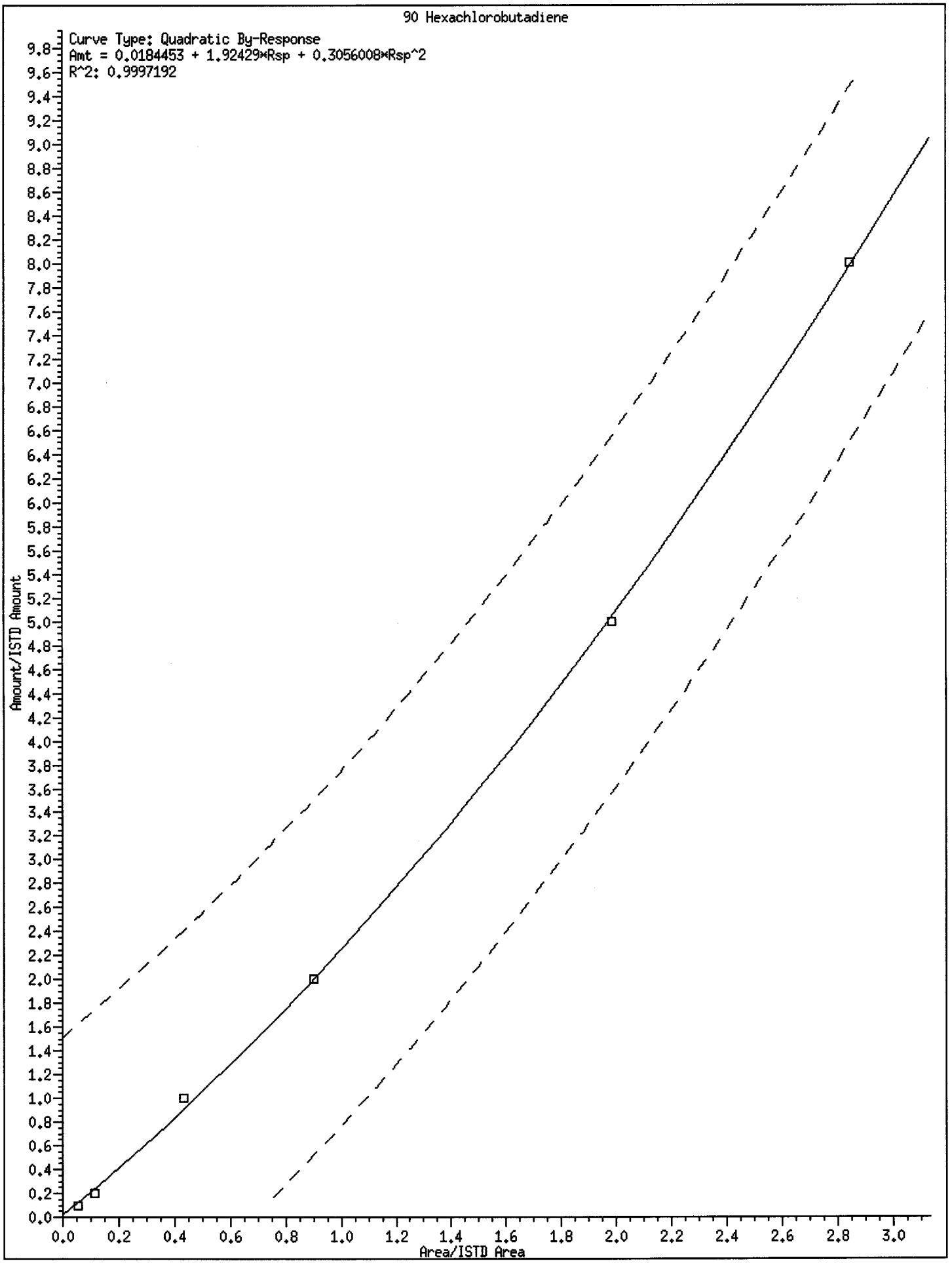

66 m&p-Xylene
Curve Type: Quadratic By-Response
Amt = -0.0140931 + 1.475138*Rsp + 0.0903196*Rsp^2
R^2: 0.9997912
Amount/ISTD Amount
Area/ISTD Area
0
1
2
3
4
5
6
7
8
9
10
11
12
0.0
0.3
0.6
0.9
1.2
1.5
1.8
2.1
2.4
2.7
3.0
3.3
3.6
3.9
4.2
4.5
4.8
5.1
5.4

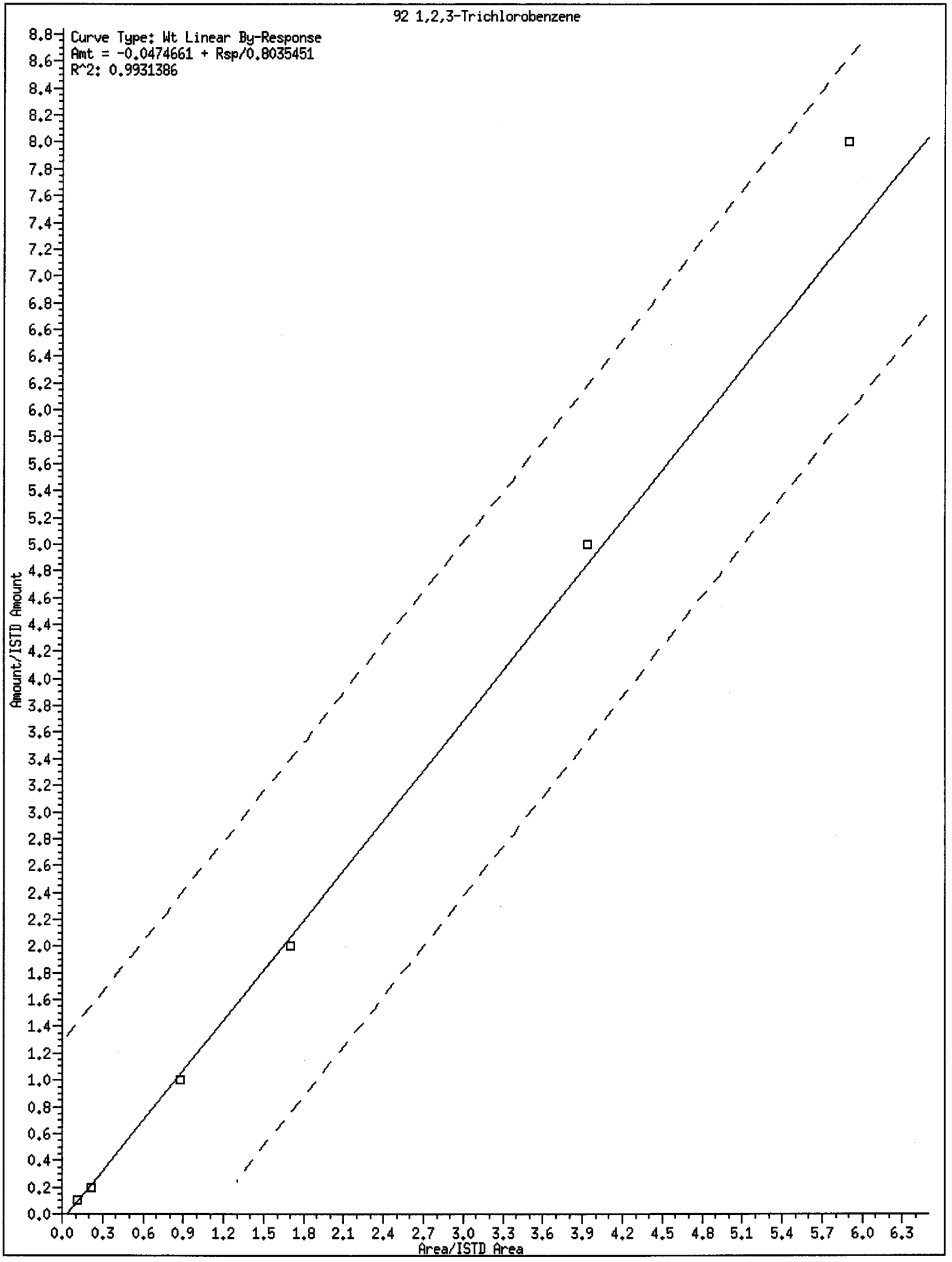

67 o-Xylene
Curve Type: Wt Linear By-Response
Amt = -0.0697996 + Rsp/0.497211
R^2: 0.9910216
Amount/ISTD Amount
Area/ISTD Area
0.0 0.2 0.4 0.6 0.8 1.0 1.2 1.4 1.6 1.8 2.0 2.2 2.4 2.6 2.8 3.0 3.2 3.4 3.6 3.8 4.0
0.0 0.2 0.4 0.6 0.8 1.0 1.2 1.4 1.6 1.8 2.0 2.2 2.4 2.6 2.8 3.0 3.2 3.4 3.6 3.8 4.0 4.2 4.4 4.6 4.8 5.0 5.2 5.4 5.6 5.8 6.0 6.2 6.4 6.6 6.8 7.0 7.2 7.4 7.6 7.8 8.0 8.2 8.4 8.6 8.8


78 1,3,5-Trimethylbenzene
Curve Type: Quadratic By-Response
Amt = -0.0250837 + 0.3326988*Rsp + 0.004691077*Rsp^2
R^2: 0.9996970
Amount/ISTD Amount
Area/ISTD Area


87 n-Butylbenzene
Curve Type: Wt Linear By-Response
Amt = -0.0730188 + Rsp/2.413984
R^2: 0.9931082
Amount/ISTD Amount
Area/ISTD Area


89 1,2,4-Trichlorobenzene
Curve Type: Quadratic By-Response
Amt = -0.0179483 + 0.9868782*Rsp + 0.04909562*Rsp^2
R^2: 0.9999586
Amount/ISTD Amount
Area/ISTD Area


90 Hexachlorobutadiene
Curve Type: Quadratic By-Response
Amt = 0.0184453 + 1.92429*Rsp + 0.3056008*Rsp^2
R^2: 0.9997192
Amount/ISTD Amount
Area/ISTD Area
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6
1.8
2.0
2.2
2.4
2.6
2.8
3.0


92 1,2,3-Trichlorobenzene
Curve Type: Wt Linear By-Response
Amt = -0.0474661 + Rsp/0.8035451
R^2: 0.9931386
Amount/ISTD Amount
Area/ISTD Area
0.0 0.3 0.6 0.9 1.2 1.5 1.8 2.1 2.4 2.7 3.0 3.3 3.6 3.9 4.2 4.5 4.8 5.1 5.4 5.7 6.0 6.3
0.0 0.2 0.4 0.6 0.8 1.0 1.2 1.4 1.6 1.8 2.0 2.2 2.4 2.6 2.8 3.0 3.2 3.4 3.6 3.8 4.0 4.2 4.4 4.6 4.8 5.0 5.2 5.4 5.6 5.8 6.0 6.2 6.4 6.6 6.8 7.0 7.2 7.4 7.6 7.8 8.0 8.2 8.4 8.6 8.8

Data File: /var/chem/gcms/mk.i/K121205I.b/icvkj121.d
Report Date: 14-Dec-2005 16:54

STL Knoxville

Volatile Organics by GC/MS

Data file : /var/chem/gcms/mk.i/K121205I.b/icvkj121.d
Lab Smp Id: ICVKJ121 Client Smp ID: VST1.5
Inj Date : 12-DEC-2005 15:38
Operator : 063605 Inst ID: mk.i
Smp Info : ICVKJ121,1,1,1,,VST1.5
Misc Info : K121205I,MS8260NM,all.sub
Comment : Volatile Organics by GC/MS
Method : /var/chem/gcms/mk.i/K121205I.b/MS8260NM.m
Meth Date : 14-Dec-2005 16:54 tillerm Quant Type: ISTD
Cal Date : 12-DEC-2005 15:38 Cal File: icvkj121.d
Als bottle: 4 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Uf*Vt/(Ws*1000) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Unit Correction Factor
Vt	5000.00000	Sample Volume Purged
Ws	5.00000	Weight of sample
Va	100.00000	Volume of Methanol Aliquot

Cpnd Variable Local Compound Variable

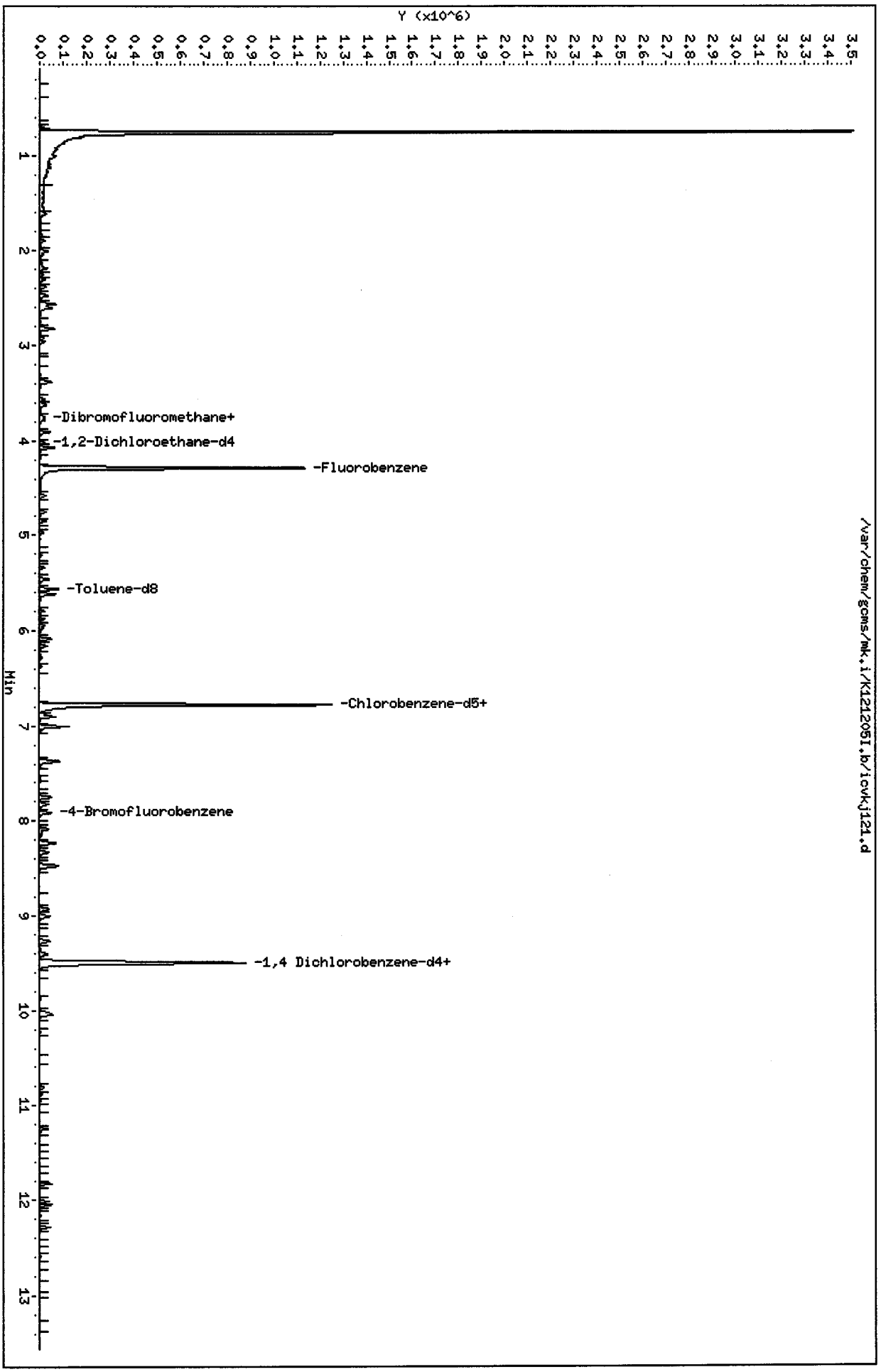
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
*	1 Fluorobenzene	96	4.287	4.287	(1.000)	898176	50.0000	
*	2 Chlorobenzene-d5	117	6.777	6.780	(1.000)	619982	50.0000	
*	3 1,4 Dichlorobenzene-d4	152	9.498	9.498	(1.000)	259442	50.0000	
$	4 1,2-Dichloroethane-d4	65	4.017	4.014	(0.937)	11714	1.50000	2.7038
$	5 Dibromofluoromethane	113	3.751	3.751	(0.875)	10166	1.50000	2.5562
$	6 Toluene-d8	98	5.561	5.564	(0.821)	44141	1.50000	2.6752
$	7 4-Bromofluorobenzene	95	7.913	7.913	(0.833)	20739	1.50000	3.3020
M	8 1,2-Dichloroethene (total)	96				17073	3.00000	3.9961
M	9 Xylene (total)	106				49571	4.50000	2.3788
M	132 BTE(TOTAL)	100				88541	1.50000	6.2847
	10 Dichlorodifluoromethane	85	0.873	0.869	(0.204)	8693	1.50000	2.0257
	11 Chloromethane (spcc)	50	1.011	1.011	(0.236)	29111	1.50000	4.8694
	12 Vinyl Chloride (ccc)	62	1.094	1.097	(0.255)	7227	1.50000	1.7477
	13 *1,3-Butadiene	39	1.123	1.126	(0.262)	5709	1.50000	1.9799

Data File: /var/chem/gcms/mk.i/K121205I.b/icvkj121.d
Report Date: 14-Dec-2005 16:54

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
14 Bromomethane	94	1.338	1.338	(0.312)	1474	1.50000	1.4874
15 Chloroethane	64	1.415	1.412	(0.330)	4001	1.50000	2.8541
16 *Vinyl Bromide	106	1.563	1.556	(0.364)	3507	1.50000	1.7215
17 Trichlorofluoromethane	101	1.608	1.607	(0.375)	10886	1.50000	2.6157
18 *2-Chloropropane	43	1.893	1.893	(0.442)	10600	1.50000	2.3029
19 1,1-Dichloroethene (ccc)	96	2.002	2.005	(0.467)	6649	1.50000	1.9841
20 *Freon 113	151	2.002	2.002	(0.467)	5235	1.50000	1.9717
21 Acetone	43	2.041	2.041	(0.476)	16668	6.00000	17.538
22 *Iodomethane	142	2.131	2.127	(0.497)	8651	1.50000	2.1801
23 Carbon Disulfide	76	2.188	2.185	(0.510)	34200	1.50000	2.5591
24 *2-Propanol	45	2.153	2.159	(0.502)	12219	15.0000	34.532
25 *Acetonitrile	40	2.256	2.252	(0.526)	7102	30.0000	31.304
26 Methylene Chloride	84	2.384	2.384	(0.556)	9918	1.50000	2.3241
27 *Acrylonitrile	53	2.564	2.564	(0.598)	46290	30.0000	38.678
28 *T-Butanol	59	2.477	2.474	(0.578)	38905	37.5000	92.182
29 trans-1,2-Dichloroethene	96	2.602	2.602	(0.607)	7747	1.50000	1.9424
30 *MTBE	73	2.609	2.609	(0.609)	22924	1.50000	2.0057
31 *Hexane	57	2.820	2.827	(0.658)	27620	3.00000	4.0968
32 1,1-Dichloroethane (spcc)	63	2.930	2.929	(0.683)	14393	1.50000	1.8413
33 *Vinyl Acetate	86	2.968	2.965	(0.692)	1739	3.00000	2.4138
34 2,2-Dichloropropane	77	3.379	3.382	(0.788)	9779	1.50000	1.6984
35 cis 1,2-Dichloroethene	96	3.376	3.382	(0.787)	9326	1.50000	2.0537
36 2-Butanone	43	3.385	3.385	(0.790)	13687	6.00000	8.8899
37 *Propionitrile	54	3.430	3.424	(0.800)	3413	1.50000	1.6356
38 Bromochloromethane	128	3.568	3.565	(0.832)	3269	1.50000	1.9409
39 *THF	42	3.613	3.610	(0.843)	8606	6.00000	8.2502
40 Chloroform (ccc)	83	3.626	3.629	(0.846)	12896	1.50000	1.7711
41 1,1,1-Trichloroethane	97	3.780	3.780	(0.882)	11228	1.50000	1.7855
42 Carbon Tetrachloride	117	3.915	3.915	(0.913)	8216	1.50000	1.6768
43 1,1-Dichloropropene	75	3.905	3.911	(0.911)	11339	1.50000	1.9074
44 Benzene	78	4.069	4.069	(0.949)	36215	1.50000	2.0728
45 1,2-Dichloroethane	62	4.075	4.075	(0.951)	9573	1.50000	1.8676
46 Trichloroethene	130	4.579	4.582	(1.068)	7957	1.50000	1.8976
47 1,2-Dichloropropane (ccc)	63	4.752	4.752	(1.109)	7669	1.50000	1.7539
48 Dibromomethane	93	4.842	4.845	(1.129)	4198	1.50000	1.9262
49 *Methyl Methacrylate	41	4.845	4.845	(1.130)	7359	1.50000	2.2491
50 Bromodichloromethane	83	4.974	4.970	(1.160)	9249	1.50000	1.7313
51 *2-Chloroethylvinylether	63	5.211	5.214	(1.216)	3231	3.00000	2.8310
52 cis-1,3-Dichloropropene	75	5.336	5.336	(1.245)	11367	1.50000	1.6768
53 4-Methyl-2-pentanone	43	5.461	5.458	(0.806)	22920	6.00000	6.7925
54 Toluene (ccc)	91	5.619	5.619	(0.829)	39580	1.50000	2.1498
55 trans-1,3-Dichloropropene	75	5.789	5.792	(0.854)	8472	1.50000	1.4928
56 *Ethyl Methacrylate	69	5.872	5.875	(0.866)	8467	1.50000	1.6678
57 1,1,2-Trichloroethane	97	5.943	5.946	(0.877)	6853	1.50000	2.0495
58 Tetrachloroethene	164	6.078	6.081	(0.897)	6734	1.50000	2.1648
59 1,3-Dichloropropane	76	6.087	6.087	(0.898)	11496	1.50000	1.9937
60 2-Hexanone	43	6.155	6.154	(0.908)	16890	6.00000	6.9692

Data File: /var/chem/gcms/mk.i/K121205I.b/icvkj121.d
Report Date: 14-Dec-2005 16:54

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
61 Chlorodibromomethane	129	6.276	6.280	(0.926)	5595	1.50000	1.5783
62 1,2-Dibromoethane	107	6.373	6.376	(0.940)	5467	1.50000	1.6817
63 Chlorobenzene (spcc)	112	6.803	6.806	(1.004)	22939	1.50000	2.0578
64 1,1,1,2-Tetrachloroethane	131	6.877	6.873	(1.015)	7327	1.50000	1.9363
65 Ethylbenzene (ccc)	106	6.905	6.902	(1.019)	12746	1.50000	2.0621
66 m&p-Xylene	106	7.005	7.008	(1.034)	34251	3.00000	3.3839
68 Styrene	104	7.384	7.380	(1.089)	24680	1.50000	2.0307
69 Bromoform (spcc)	173	7.550	7.553	(1.114)	2368	1.50000	1.2294
70 Isopropylbenzene	105	7.753	7.749	(1.144)	39188	1.50000	2.0457
71 *cis-1,4-Dichloro-2-butene	53	7.810	7.813	(1.152)	2241	1.50000	1.6520
72 Bromobenzene	156	8.080	8.083	(0.851)	8198	1.50000	2.0768
73 1,1,2,2-Tetrachloroethane(sp)	83	8.080	8.080	(0.851)	6887	1.50000	1.8165
74 1,2,3-Trichloropropane	110	8.134	8.125	(0.856)	2320	1.50000	1.9066
75 *trans-1,4-Dichloro-2-butene	53	8.150	8.150	(0.858)	1699	1.50000	1.7304
76 n-Propylbenzene	91	8.231	8.234	(0.867)	46265	1.50000	2.0576
77 2-Chlorotoluene	91	8.327	8.330	(0.877)	27060	1.50000	1.9994
78 1,3,5-Trimethylbenzene	105	8.465	8.468	(0.891)	32417	1.50000	0.82802
79 4-Chlorotoluene	91	8.478	8.471	(0.893)	32396	1.50000	2.1065
80 tert-Butylbenzene	119	8.933	8.933	(0.941)	26933	1.50000	1.9998
81 1,2,4-Trimethylbenzene	105	9.007	9.007	(0.948)	32246	1.50000	2.0243
82 sec-Butylbenzene	105	9.270	9.270	(0.976)	39369	1.50000	2.0559
83 1,3-Dichlorobenzene	146	9.405	9.402	(0.990)	16042	1.50000	2.1058
84 p-Isopropyltoluene	119	9.492	9.492	(0.999)	32970	1.50000	2.0510
85 1,4-Dichlorobenzene	146	9.530	9.530	(1.003)	17925	1.50000	2.3918
86 1,2-Dichlorobenzene	146	10.021	10.018	(1.055)	14278	1.50000	2.0420
88 1,2-Dibromo-3-chloropropane	157	10.939	10.945	(1.152)	1037	1.50000	1.5569
89 1,2,4-Trichlorobenzene	180	11.828	11.825	(1.245)	12627	1.50000	1.5101
90 Hexachlorobutadiene	225	12.014	12.014	(1.265)	6041	1.50000	3.1709
91 Napthalene	128	12.053	12.052	(1.269)	29587	1.50000	2.2950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Date : 12-DEC-2005 15:38
Client ID: VST1.5
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Column phase: J&W-624
Instrument: mk.i
Operator: 063605
Column diameter: 0.18
Y (x10^6)
-Dibromofluoromethane+
-1,2-Dichloroethane-d4
-Fluorobenzene
-Toluene-d8
-Chlorobenzene-d5+
-4-Bromofluorobenzene
-1,4 Dichlorobenzene-d4+
/var/chem/gcms/mk.i/K121205I.b/icvkj121.d
Min

Data File: /var/chem/gcms/mk.i/K121205I.b/icvkl126.d
Report Date: 14-Dec-2005 16:55

STL Knoxville

Volatile Organics by GC/MS

Data file : /var/chem/gcms/mk.i/K121205I.b/icvkl126.d
Lab Smp Id: ICVKL126 Client Smp ID: VST05
Inj Date : 12-DEC-2005 16:01
Operator : 063605 Inst ID: mk.i
Smp Info : ICVKL126,1,1,6,,VST05
Misc Info : K121205I,MS8260NM,all.sub
Comment : Volatile Organics by GC/MS
Method : /var/chem/gcms/mk.i/K121205I.b/MS8260NM.m
Meth Date : 14-Dec-2005 16:54 tillerm Quant Type: ISTD
Cal Date : 12-DEC-2005 16:01 Cal File: icvkl126.d
Als bottle: 4 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Uf*Vt/(Ws*1000) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Unit Correction Factor
Vt	5000.00000	Sample Volume Purged
Ws	5.00000	Weight of sample
Va	100.00000	Volume of Methanol Aliquot

Cpnd Variable Local Compound Variable

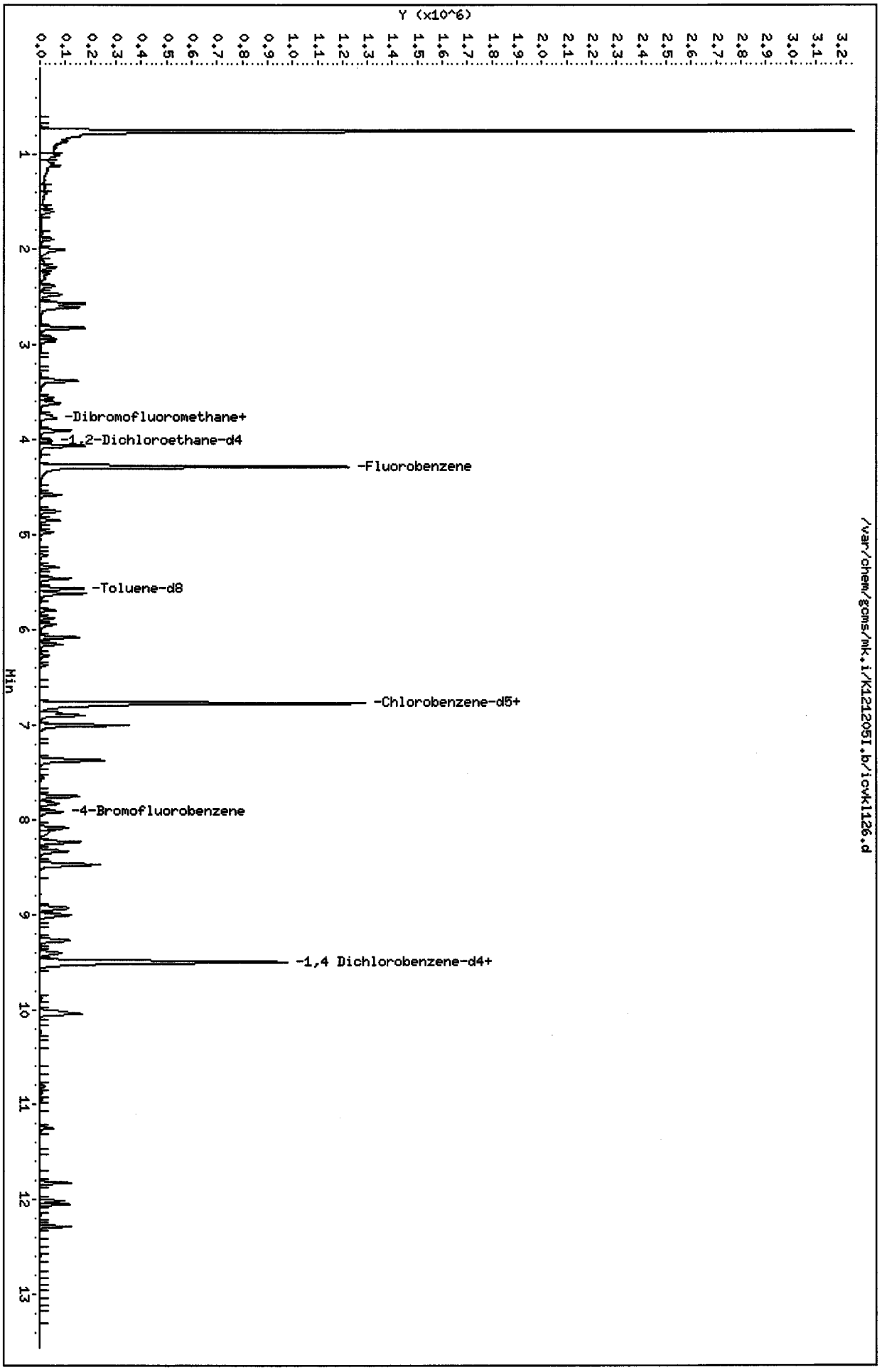
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
*	1 Fluorobenzene	96	4.287	4.287	(1.000)	939693	50.0000	
*	2 Chlorobenzene-d5	117	6.780	6.780	(1.000)	649120	50.0000	
*	3 1,4 Dichlorobenzene-d4	152	9.498	9.498	(1.000)	263060	50.0000	
$	4 1,2-Dichloroethane-d4	65	4.014	4.014	(0.936)	25240	5.00000	5.5684
$	5 Dibromofluoromethane	113	3.751	3.751	(0.875)	22010	5.00000	5.2894
$	6 Toluene-d8	98	5.561	5.564	(0.820)	97373	5.00000	5.6364
$	7 4-Bromofluorobenzene	95	7.910	7.913	(0.833)	35984	5.00000	5.6504
M	8 1,2-Dichloroethene (total)	96				49875	10.0000	11.172
M	9 Xylene (total)	106				142324	15.0000	13.944
M	132 BTE(TOTAL)	100				243960	5.00000	16.809
	10 Dichlorodifluoromethane	85	0.870	0.869	(0.203)	22451	5.00000	5.0003
	11 Chloromethane (spcc)	50	1.011	1.011	(0.236)	45486	5.00000	7.5971
	12 Vinyl Chloride (ccc)	62	1.097	1.097	(0.256)	21872	5.00000	5.0551
	13 *1,3-Butadiene	39	1.126	1.126	(0.263)	17940	5.00000	5.9465

Data File: /var/chem/gcms/mk.i/K121205I.b/icvkl126.d
Report Date: 14-Dec-2005 16:55

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
14 Bromomethane	94	1.341	1.338	(0.313)	6463	5.00000	6.2311
15 Chloroethane	64	1.415	1.412	(0.330)	11527	5.00000	7.3170
16 *Vinyl Bromide	106	1.559	1.556	(0.364)	10164	5.00000	4.7688
17 Trichlorofluoromethane	101	1.608	1.607	(0.375)	28881	5.00000	7.7628
18 *2-Chloropropane	43	1.893	1.893	(0.442)	37451	5.00000	4.6196
19 1,1-Dichloroethene (ccc)	96	2.002	2.005	(0.467)	18406	5.00000	5.2493
20 *Freon 113	151	2.005	2.002	(0.468)	16055	5.00000	5.7790
21 Acetone	43	2.041	2.041	(0.476)	23154	20.0000	23.286
22 *Iodomethane	142	2.127	2.127	(0.496)	19779	5.00000	4.7639
23 Carbon Disulfide	76	2.188	2.185	(0.510)	78019	5.00000	5.5800
24 *2-Propanol	45	2.150	2.159	(0.501)	19754	50.0000	53.361
25 *Acetonitrile	40	2.249	2.252	(0.525)	23876	100.000	100.58
26 Methylene Chloride	84	2.381	2.384	(0.555)	24858	5.00000	5.5672
27 *Acrylonitrile	53	2.564	2.564	(0.598)	130705	100.000	104.39
28 *T-Butanol	59	2.471	2.474	(0.576)	106699	250.000	241.64
29 trans-1,2-Dichloroethene	96	2.602	2.602	(0.607)	23129	5.00000	5.5430
30 *MTBE	73	2.606	2.609	(0.608)	62554	5.00000	5.2311
31 *Hexane	57	2.824	2.827	(0.659)	79553	10.0000	11.278
32 1,1-Dichloroethane (spcc)	63	2.926	2.929	(0.683)	42548	5.00000	5.2024
33 *Vinyl Acetate	86	2.962	2.965	(0.691)	7794	10.0000	10.336
34 2,2-Dichloropropane	77	3.382	3.382	(0.789)	30191	5.00000	5.0113
35 cis 1,2-Dichloroethene	96	3.385	3.382	(0.790)	26745	5.00000	5.6291
36 2-Butanone	43	3.382	3.385	(0.789)	34901	20.0000	21.667
37 *Propionitrile	54	3.427	3.424	(0.799)	11343	5.00000	5.1944
38 Bromochloromethane	128	3.565	3.565	(0.832)	10340	5.00000	5.8665
39 *THF	42	3.610	3.610	(0.842)	21919	20.0000	20.084
40 Chloroform (ccc)	83	3.629	3.629	(0.847)	39942	5.00000	5.2431
41 1,1,1-Trichloroethane	97	3.780	3.780	(0.882)	33992	5.00000	5.1666
42 Carbon Tetrachloride	117	3.915	3.915	(0.913)	25608	5.00000	4.9954
43 1,1-Dichloropropene	75	3.912	3.911	(0.912)	33347	5.00000	5.3615
44 Benzene	78	4.069	4.069	(0.949)	102044	5.00000	5.5826
45 1,2-Dichloroethane	62	4.075	4.075	(0.951)	28076	5.00000	5.2348
46 Trichloroethene	130	4.582	4.582	(1.069)	24314	5.00000	5.5417
47 1,2-Dichloropropane (ccc)	63	4.752	4.752	(1.109)	25068	5.00000	5.4795
48 Dibromomethane	93	4.839	4.845	(1.129)	11612	5.00000	5.0926
49 *Methyl Methacrylate	41	4.845	4.845	(1.130)	17413	5.00000	5.0863
50 Bromodichloromethane	83	4.971	4.970	(1.159)	27240	5.00000	4.8737
51 *2-Chloroethylvinylether	63	5.214	5.214	(1.216)	11061	10.0000	9.2637
52 cis-1,3-Dichloropropene	75	5.336	5.336	(1.245)	34172	5.00000	4.8180
53 4-Methyl-2-pentanone	43	5.461	5.458	(0.805)	70704	20.0000	20.012
54 Toluene (ccc)	91	5.619	5.619	(0.829)	104268	5.00000	5.4091
55 trans-1,3-Dichloropropene	75	5.792	5.792	(0.854)	27072	5.00000	4.5561
56 *Ethyl Methacrylate	69	5.875	5.875	(0.867)	25413	5.00000	4.7807
57 1,1,2-Trichloroethane	97	5.946	5.946	(0.877)	18640	5.00000	5.3243
58 Tetrachloroethene	164	6.084	6.081	(0.897)	18234	5.00000	5.5984
59 1,3-Dichloropropane	76	6.087	6.087	(0.898)	32038	5.00000	5.3068
60 2-Hexanone	43	6.158	6.154	(0.908)	49543	20.0000	19.524

Data File: /var/chem/gcms/mk.i/K121205I.b/icvkl126.d
Report Date: 14-Dec-2005 16:55

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
61 Chlorodibromomethane	129	6.280	6.280	(0.926)	16895	5.00000	4.5515
62 1,2-Dibromoethane	107	6.379	6.376	(0.941)	17447	5.00000	5.1255
63 Chlorobenzene (spcc)	112	6.806	6.806	(1.004)	65107	5.00000	5.5782
64 1,1,1,2-Tetrachloroethane	131	6.873	6.873	(1.014)	21734	5.00000	5.4851
65 Ethylbenzene (ccc)	106	6.905	6.902	(1.018)	37647	5.00000	5.8172
66 m&p-Xylene	106	7.008	7.008	(1.034)	97146	10.0000	10.435
67 o-Xylene	106	7.364	7.367	(1.086)	45177	5.00000	3.5088
68 Styrene	104	7.377	7.380	(1.088)	73220	5.00000	5.7542
69 Bromoform (spcc)	173	7.554	7.553	(1.114)	8313	5.00000	4.1218
70 Isopropylbenzene	105	7.753	7.749	(1.143)	118164	5.00000	5.8913
71 *cis-1,4-Dichloro-2-butene	53	7.807	7.813	(1.151)	6489	5.00000	4.5681
72 Bromobenzene	156	8.080	8.083	(0.851)	23118	5.00000	5.7760
73 1,1,2,2-Tetrachloroethane(sp)	83	8.077	8.080	(0.850)	20849	5.00000	5.4232
74 1,2,3-Trichloropropane	110	8.125	8.125	(0.855)	6179	5.00000	5.0072
75 *trans-1,4-Dichloro-2-butene	53	8.144	8.150	(0.857)	4416	5.00000	4.4356
76 n-Propylbenzene	91	8.231	8.234	(0.867)	135313	5.00000	5.9351
77 2-Chlorotoluene	91	8.330	8.330	(0.877)	79856	5.00000	5.8191
78 1,3,5-Trimethylbenzene	105	8.468	8.468	(0.892)	92588	5.00000	4.6298
79 4-Chlorotoluene	91	8.475	8.471	(0.892)	90436	5.00000	5.7995
80 tert-Butylbenzene	119	8.930	8.933	(0.940)	79554	5.00000	5.8255
81 1,2,4-Trimethylbenzene	105	9.004	9.007	(0.948)	93852	5.00000	5.8105
82 sec-Butylbenzene	105	9.267	9.270	(0.976)	112638	5.00000	5.8011
83 1,3-Dichlorobenzene	146	9.405	9.402	(0.990)	44681	5.00000	5.7844
84 p-Isopropyltoluene	119	9.492	9.492	(0.999)	95377	5.00000	5.8516
85 1,4-Dichlorobenzene	146	9.534	9.530	(1.004)	44864	5.00000	5.9037
86 1,2-Dichlorobenzene	146	10.021	10.018	(1.055)	40832	5.00000	5.7591
87 n-Butylbenzene	91	10.047	10.044	(1.058)	93684	5.00000	3.7255
88 1,2-Dibromo-3-chloropropane	157	10.945	10.945	(1.152)	2783	5.00000	4.1208
89 1,2,4-Trichlorobenzene	180	11.828	11.825	(1.245)	31092	5.00000	4.9690
90 Hexachlorobutadiene	225	12.017	12.014	(1.265)	14569	5.00000	6.2978
91 Napthalene	128	12.053	12.052	(1.269)	73112	5.00000	5.5931
92 1,2,3-Trichlorobenzene	180	12.287	12.287	(1.294)	29768	5.00000	4.6680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Instrument: mk.i
Operator: 063605
Column diameter: 0.18
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-Dibromofluoromethane+
-1,2-Dichloroethane-d4
-Fluorobenzene
-Toluene-d8
-Chlorobenzene-d5+
-4-Bromofluorobenzene
-1,4 Dichlorobenzene-d4+
/var/chem/gcms/mk.i/K121205I.b/icvk1126.d

Data File: /var/chem/gcms/mk.i/K121205I.b/icvkl127.d
Report Date: 14-Dec-2005 16:55

STL Knoxville

Volatile Organics by GC/MS

Data file : /var/chem/gcms/mk.i/K121205I.b/icvkl127.d
Lab Smp Id: ICVKL127 Client Smp ID: VST10
Inj Date : 12-DEC-2005 16:25
Operator : 063605 Inst ID: mk.i
Smp Info : ICVKL127,1,1,7,,VST10
Misc Info : K121205I,MS8260NM,all.sub
Comment : Volatile Organics by GC/MS
Method : /var/chem/gcms/mk.i/K121205I.b/MS8260NM.m
Meth Date : 14-Dec-2005 16:54 tillerm Quant Type: ISTD
Cal Date : 12-DEC-2005 16:25 Cal File: icvkl127.d
Als bottle: 5 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Uf*Vt/(Ws*1000) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Unit Correction Factor
Vt	5000.00000	Sample Volume Purged
Ws	5.00000	Weight of sample
Va	100.00000	Volume of Methanol Aliquot

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
* 1 Fluorobenzene	96	4.287	4.287	(1.000)	941810	50.0000	
* 2 Chlorobenzene-d5	117	6.780	6.780	(1.000)	663164	50.0000	
* 3 1,4 Dichlorobenzene-d4	152	9.498	9.498	(1.000)	276409	50.0000	
$ 4 1,2-Dichloroethane-d4	65	4.014	4.014	(0.936)	49844	10.0000	10.972
$ 5 Dibromofluoromethane	113	3.751	3.751	(0.875)	45907	10.0000	11.007
$ 6 Toluene-d8	98	5.564	5.564	(0.821)	188929	10.0000	10.704
$ 7 4-Bromofluorobenzene	95	7.910	7.913	(0.833)	73627	10.0000	11.003
M 8 1,2-Dichloroethene (total)	96				100464	20.0000	22.472
M 9 Xylene (total)	106				288779	30.0000	32.095
M 132 BTE(TOTAL)	100				502219	10.0000	33.731
10 Dichlorodifluoromethane	85	0.869	0.869	(0.203)	44134	10.0000	9.8073
11 Chloromethane (spcc)	50	1.011	1.011	(0.236)	73660	10.0000	12.680
12 Vinyl Chloride (ccc)	62	1.097	1.097	(0.256)	42665	10.0000	9.8387
13 *1,3-Butadiene	39	1.126	1.126	(0.263)	30738	10.0000	10.166

Data File: /var/chem/gcms/mk.i/K121205I.b/icvkl127.d
Report Date: 14-Dec-2005 16:55

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
14 Bromomethane	94	1.338	1.338	(0.312)	10839	10.0000	10.426
15 Chloroethane	64	1.418	1.412	(0.331)	18576	10.0000	11.577
16 *Vinyl Bromide	106	1.562	1.556	(0.364)	21613	10.0000	10.118
17 Trichlorofluoromethane	101	1.604	1.607	(0.374)	54417	10.0000	15.241
18 *2-Chloropropane	43	1.893	1.893	(0.442)	75770	10.0000	8.6958
19 1,1-Dichloroethene (ccc)	96	2.005	2.005	(0.468)	37556	10.0000	10.686
20 *Freon 113	151	2.005	2.002	(0.468)	30180	10.0000	10.838
21 Acetone	43	2.041	2.041	(0.476)	44089	40.0000	44.240
22 *Iodomethane	142	2.127	2.127	(0.496)	42993	10.0000	10.332
23 Carbon Disulfide	76	2.188	2.185	(0.510)	148692	10.0000	10.611
24 *2-Propanol	45	2.156	2.159	(0.503)	38159	100.000	102.85
25 *Acetonitrile	40	2.252	2.252	(0.525)	49910	200.000	209.78
26 Methylene Chloride	84	2.381	2.384	(0.555)	48460	10.0000	10.829
27 *Acrylonitrile	53	2.564	2.564	(0.598)	275501	200.000	219.53
28 *T-Butanol	59	2.474	2.474	(0.577)	230278	500.000	520.33
29 trans-1,2-Dichloroethene	96	2.605	2.602	(0.608)	47224	10.0000	11.292
30 *MTBE	73	2.602	2.609	(0.607)	129705	10.0000	10.822
31 *Hexane	57	2.824	2.827	(0.659)	160406	20.0000	22.690
32 1,1-Dichloroethane (spcc)	63	2.929	2.929	(0.683)	84778	10.0000	10.343
33 *Vinyl Acetate	86	2.965	2.965	(0.692)	15398	20.0000	20.374
34 2,2-Dichloropropane	77	3.382	3.382	(0.789)	60615	10.0000	10.039
35 cis 1,2-Dichloroethene	96	3.382	3.382	(0.789)	53239	10.0000	11.180
36 2-Butanone	43	3.385	3.385	(0.790)	71647	40.0000	44.378
37 *Propionitrile	54	3.424	3.424	(0.799)	23061	10.0000	10.537
38 Bromochloromethane	128	3.565	3.565	(0.832)	20511	10.0000	11.611
39 *THF	42	3.610	3.610	(0.842)	47439	40.0000	43.368
40 Chloroform (ccc)	83	3.629	3.629	(0.847)	82708	10.0000	10.832
41 1,1,1-Trichloroethane	97	3.777	3.780	(0.881)	68320	10.0000	10.361
42 Carbon Tetrachloride	117	3.918	3.915	(0.914)	55922	10.0000	10.884
43 1,1-Dichloropropene	75	3.911	3.911	(0.912)	66970	10.0000	10.743
44 Benzene	78	4.072	4.069	(0.950)	207616	10.0000	11.333
45 1,2-Dichloroethane	62	4.078	4.075	(0.951)	57123	10.0000	10.627
46 Trichloroethene	130	4.582	4.582	(1.069)	48939	10.0000	11.129
47 1,2-Dichloropropane (ccc)	63	4.752	4.752	(1.109)	47020	10.0000	10.255
48 Dibromomethane	93	4.842	4.845	(1.129)	23403	10.0000	10.240
49 *Methyl Methacrylate	41	4.845	4.845	(1.130)	33982	10.0000	9.9038
50 Bromodichloromethane	83	4.974	4.970	(1.160)	55129	10.0000	9.8413
51 *2-Chloroethylvinylether	63	5.211	5.214	(1.216)	22294	20.0000	18.628
52 cis-1,3-Dichloropropene	75	5.336	5.336	(1.245)	72156	10.0000	10.150
53 4-Methyl-2-pentanone	43	5.458	5.458	(0.805)	153662	40.0000	42.572
54 Toluene (ccc)	91	5.619	5.619	(0.829)	220561	10.0000	11.200
55 trans-1,3-Dichloropropene	75	5.792	5.792	(0.854)	58937	10.0000	9.7085
56 *Ethyl Methacrylate	69	5.875	5.875	(0.867)	54614	10.0000	10.056
57 1,1,2-Trichloroethane	97	5.946	5.946	(0.877)	37369	10.0000	10.448
58 Tetrachloroethene	164	6.081	6.081	(0.897)	37364	10.0000	11.229
59 1,3-Dichloropropane	76	6.087	6.087	(0.898)	67145	10.0000	10.886
60 2-Hexanone	43	6.154	6.154	(0.908)	107555	40.0000	41.489

Data File: /var/chem/gcms/mk.i/K121205I.b/icvkl127.d
Report Date: 14-Dec-2005 16:55

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
61 Chlorodibromomethane	129	6.280	6.280	(0.926)	38063	10.0000	10.037
62 1,2-Dibromoethane	107	6.376	6.376	(0.940)	36471	10.0000	10.487
63 Chlorobenzene (spcc)	112	6.806	6.806	(1.004)	128509	10.0000	10.777
64 1,1,1,2-Tetrachloroethane	131	6.873	6.873	(1.014)	42892	10.0000	10.596
65 Ethylbenzene (ccc)	106	6.902	6.902	(1.018)	74041	10.0000	11.198
66 m&p-Xylene	106	7.008	7.008	(1.034)	195240	20.0000	21.401
67 o-Xylene	106	7.367	7.367	(1.087)	93539	10.0000	10.694
68 Styrene	104	7.380	7.380	(1.089)	150994	10.0000	11.615
69 Bromoform (spcc)	173	7.550	7.553	(1.114)	19091	10.0000	9.2652
70 Isopropylbenzene	105	7.749	7.749	(1.143)	232255	10.0000	11.334
71 *cis-1,4-Dichloro-2-butene	53	7.813	7.813	(1.152)	14206	10.0000	9.7885
72 Bromobenzene	156	8.080	8.083	(0.851)	47770	10.0000	11.359
73 1,1,2,2-Tetrachloroethane(sp)	83	8.080	8.080	(0.851)	43660	10.0000	10.808
74 1,2,3-Trichloropropane	110	8.125	8.125	(0.855)	13732	10.0000	10.590
75 *trans-1,4-Dichloro-2-butene	53	8.150	8.150	(0.858)	9798	10.0000	9.3662
76 n-Propylbenzene	91	8.231	8.234	(0.867)	272276	10.0000	11.366
77 2-Chlorotoluene	91	8.330	8.330	(0.877)	160071	10.0000	11.101
78 1,3,5-Trimethylbenzene	105	8.468	8.468	(0.892)	190928	10.0000	10.348
79 4-Chlorotoluene	91	8.471	8.471	(0.892)	184100	10.0000	11.236
80 tert-Butylbenzene	119	8.930	8.933	(0.940)	162274	10.0000	11.309
81 1,2,4-Trimethylbenzene	105	9.004	9.007	(0.948)	192325	10.0000	11.332
82 sec-Butylbenzene	105	9.270	9.270	(0.976)	232440	10.0000	11.393
83 1,3-Dichlorobenzene	146	9.405	9.402	(0.990)	91461	10.0000	11.269
84 p-Isopropyltoluene	119	9.492	9.492	(0.999)	198139	10.0000	11.569
85 1,4-Dichlorobenzene	146	9.530	9.530	(1.003)	90079	10.0000	11.281
86 1,2-Dichlorobenzene	146	10.021	10.018	(1.055)	83734	10.0000	11.240
87 n-Butylbenzene	91	10.044	10.044	(1.057)	192031	10.0000	10.739
88 1,2-Dibromo-3-chloropropane	157	10.942	10.945	(1.152)	6615	10.0000	9.3209
89 1,2,4-Trichlorobenzene	180	11.825	11.825	(1.245)	66577	10.0000	11.130
90 Hexachlorobutadiene	225	12.014	12.014	(1.265)	31517	10.0000	12.092
91 Napthalene	128	12.052	12.052	(1.269)	156104	10.0000	11.365
92 1,2,3-Trichlorobenzene	180	12.287	12.287	(1.294)	60548	10.0000	11.257

Data File: /var/chem/gcms/mk.i/K121205I.b/icvkl127.d
Date : 12-DEC-2005 16:25
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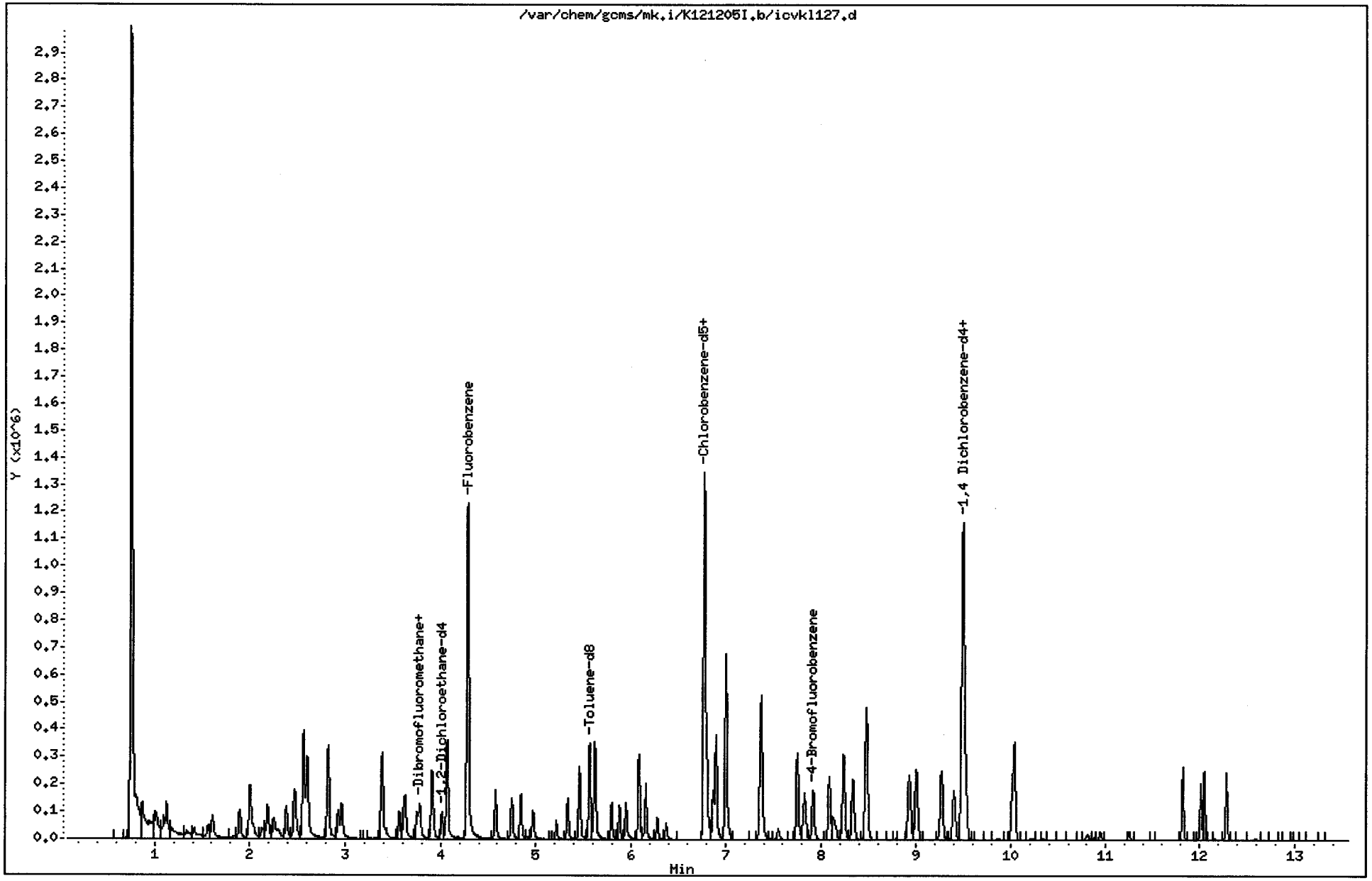
Operator: 063605
Column diameter: 0.18

Column phase: J&W-624



Data File: /var/chem/gcms/mk.i/K121205I.b/icvkl123.d
Report Date: 14-Dec-2005 16:55

STL Knoxville

Volatile Organics by GC/MS

Data file : /var/chem/gcms/mk.i/K121205I.b/icvkl123.d
Lab Smp Id: ICVKL123 Client Smp ID: VST50
Inj Date : 12-DEC-2005 16:48
Operator : 063605 Inst ID: mk.i
Smp Info : ICVKL123,1,1,3,,VST50
Misc Info : K121205I,MS8260NM,all.sub
Comment : Volatile Organics by GC/MS
Method : /var/chem/gcms/mk.i/K121205I.b/MS8260NM.m
Meth Date : 14-Dec-2005 16:54 tillerm Quant Type: ISTD
Cal Date : 12-DEC-2005 16:48 Cal File: icvkl123.d
Als bottle: 1 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Uf*Vt/(Ws*1000) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Unit Correction Factor
Vt	5000.00000	Sample Volume Purged
Ws	5.00000	Weight of sample
Va	100.00000	Volume of Methanol Aliquot

Cpnd Variable Local Compound Variable

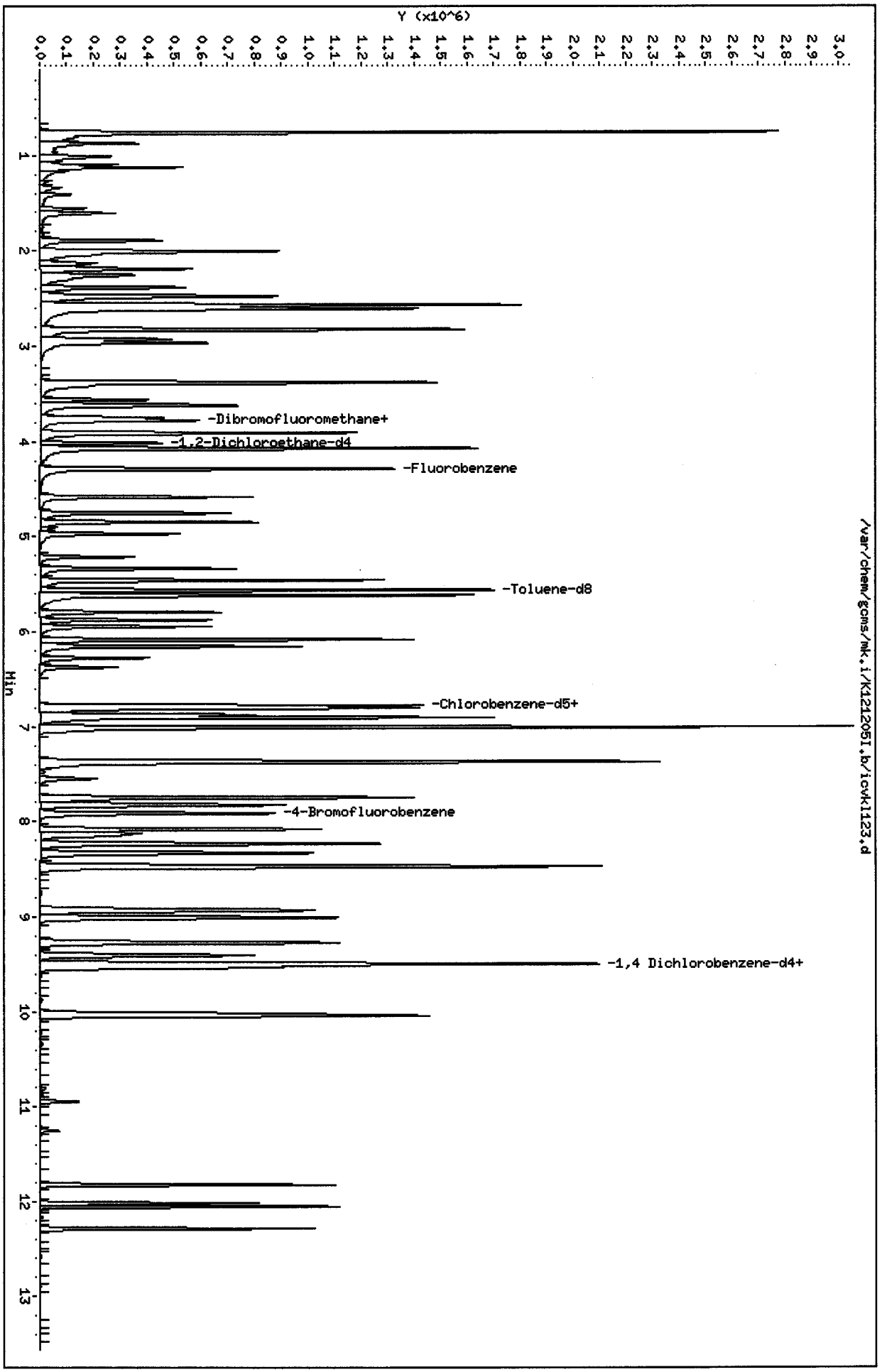
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
*	1 Fluorobenzene	96	4.287	4.287	(1.000)	1031796	50.0000	
*	2 Chlorobenzene-d5	117	6.780	6.780	(1.000)	713924	50.0000	
*	3 1,4 Dichlorobenzene-d4	152	9.498	9.498	(1.000)	294859	50.0000	
$	4 1,2-Dichloroethane-d4	65	4.014	4.014	(0.936)	239583	50.0000	48.186
$	5 Dibromofluoromethane	113	3.751	3.751	(0.875)	231598	50.0000	50.510
$	6 Toluene-d8	98	5.564	5.564	(0.821)	952863	50.0000	50.149
$	7 4-Bromofluorobenzene	95	7.913	7.913	(0.833)	360626	50.0000	50.520
M	8 1,2-Dichloroethene (total)	96				476907	100.000	97.104
M	9 Xylene (total)	106				1280520	150.000	150.39
M	132 BTE(TOTAL)	100				2340847	50.0000	145.90
	10 Dichlorodifluoromethane	85	0.869	0.869	(0.203)	235669	50.0000	47.802
	11 Chloromethane (spcc)	50	1.011	1.011	(0.236)	275990	50.0000	44.948
	12 Vinyl Chloride (ccc)	62	1.097	1.097	(0.256)	215173	50.0000	45.370
	13 *1,3-Butadiene	39	1.126	1.126	(0.263)	149381	50.0000	45.093

Data File: /var/chem/gcms/mk.i/K121205I.b/icvkl123.d
Report Date: 14-Dec-2005 16:55

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
14 Bromomethane	94	1.338	1.338	(0.312)	44526	50.0000	39.096
15 Chloroethane	64	1.412	1.412	(0.329)	81778	50.0000	45.494
16 *Vinyl Bromide	106	1.556	1.556	(0.363)	104933	50.0000	44.783
17 Trichlorofluoromethane	101	1.607	1.607	(0.375)	187544	50.0000	49.524
18 *2-Chloropropane	43	1.893	1.893	(0.442)	351869	50.0000	54.061
19 1,1-Dichloroethene (ccc)	96	2.005	2.005	(0.468)	177683	50.0000	46.149
20 *Freon 113	151	2.002	2.002	(0.467)	134996	50.0000	44.618
21 Acetone	43	2.041	2.041	(0.476)	187877	200.000	171.66
22 *Iodomethane	142	2.127	2.127	(0.496)	233276	50.0000	51.287
23 Carbon Disulfide	76	2.185	2.185	(0.510)	708844	50.0000	46.173
24 *2-Propanol	45	2.159	2.159	(0.504)	156018	500.000	383.82
25 *Acetonitrile	40	2.252	2.252	(0.525)	246751	1000.00	949.15
26 Methylene Chloride	84	2.384	2.384	(0.556)	222510	50.0000	45.367
27 *Acrylonitrile	53	2.564	2.564	(0.598)	1366664	1000.00	994.04
28 *T-Butanol	59	2.474	2.474	(0.577)	1166253	2500.00	2405.4
29 trans-1,2-Dichloroethene	96	2.602	2.602	(0.607)	221227	50.0000	48.285
30 *MTBE	73	2.609	2.609	(0.608)	634263	50.0000	48.306
31 *Hexane	57	2.827	2.827	(0.659)	750655	100.000	96.921
32 1,1-Dichloroethane (spcc)	63	2.929	2.929	(0.683)	417161	50.0000	46.270
33 *Vinyl Acetate	86	2.965	2.965	(0.692)	81095	100.000	97.941
34 2,2-Dichloropropane	77	3.382	3.382	(0.789)	323460	50.0000	48.905
35 cis 1,2-Dichloroethene	96	3.382	3.382	(0.789)	255680	50.0000	48.820
36 2-Butanone	43	3.385	3.385	(0.790)	348843	200.000	197.23
37 *Propionitrile	54	3.424	3.424	(0.799)	114396	50.0000	47.299
38 Bromochloromethane	128	3.565	3.565	(0.832)	87782	50.0000	45.357
39 *THF	42	3.610	3.610	(0.842)	228892	200.000	191.12
40 Chloroform (ccc)	83	3.629	3.629	(0.847)	399585	50.0000	47.765
41 1,1,1-Trichloroethane	97	3.780	3.780	(0.882)	317911	50.0000	44.007
42 Carbon Tetrachloride	117	3.915	3.915	(0.913)	265981	50.0000	47.345
43 1,1-Dichloropropene	75	3.911	3.911	(0.912)	308742	50.0000	45.208
44 Benzene	78	4.069	4.069	(0.949)	961342	50.0000	47.929
45 1,2-Dichloroethane	62	4.075	4.075	(0.951)	277220	50.0000	47.149
46 Trichloroethene	130	4.582	4.582	(1.069)	229385	50.0000	47.615
47 1,2-Dichloropropane (ccc)	63	4.752	4.752	(1.109)	230684	50.0000	45.922
48 Dibromomethane	93	4.845	4.845	(1.130)	113687	50.0000	45.405
49 *Methyl Methacrylate	41	4.845	4.845	(1.130)	179780	50.0000	47.825
50 Bromodichloromethane	83	4.970	4.970	(1.159)	278656	50.0000	45.406
51 *2-Chloroethylvinylether	63	5.214	5.214	(1.216)	122427	100.000	93.376
52 cis-1,3-Dichloropropene	75	5.336	5.336	(1.245)	371546	50.0000	47.664
53 4-Methyl-2-pentanone	43	5.458	5.458	(0.805)	762261	200.000	196.17
54 Toluene (ccc)	91	5.619	5.619	(0.829)	1026912	50.0000	48.437
55 trans-1,3-Dichloropropene	75	5.792	5.792	(0.854)	319064	50.0000	48.822
56 *Ethyl Methacrylate	69	5.875	5.875	(0.867)	281953	50.0000	48.226
57 1,1,2-Trichloroethane	97	5.946	5.946	(0.877)	183859	50.0000	47.749
58 Tetrachloroethene	164	6.081	6.081	(0.897)	179558	50.0000	50.124
59 1,3-Dichloropropane	76	6.087	6.087	(0.898)	321012	50.0000	48.346
60 2-Hexanone	43	6.154	6.154	(0.908)	546465	200.000	195.81

Data File: /var/chem/gcms/mk.i/K121205I.b/icvkl123.d
Report Date: 14-Dec-2005 16:55

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
61 Chlorodibromomethane	129	6.280	6.280	(0.926)	193919	50.0000	47.502
62 1,2-Dibromoethane	107	6.376	6.376	(0.940)	178403	50.0000	47.653
63 Chlorobenzene (spcc)	112	6.806	6.806	(1.004)	637230	50.0000	49.640
64 1,1,1,2-Tetrachloroethane	131	6.873	6.873	(1.014)	209630	50.0000	48.104
65 Ethylbenzene (ccc)	106	6.902	6.902	(1.018)	352593	50.0000	49.537
66 m&p-Xylene	106	7.008	7.008	(1.034)	862186	100.000	94.956
67 o-Xylene	106	7.367	7.367	(1.087)	418334	50.0000	55.435
68 Styrene	104	7.380	7.380	(1.089)	695110	50.0000	49.670
69 Bromoform (spcc)	173	7.553	7.553	(1.114)	106817	50.0000	48.153
70 Isopropylbenzene	105	7.749	7.749	(1.143)	1050940	50.0000	47.640
71 *cis-1,4-Dichloro-2-butene	53	7.813	7.813	(1.152)	74584	50.0000	47.736
72 Bromobenzene	156	8.083	8.083	(0.851)	217160	50.0000	48.406
73 1,1,2,2-Tetrachloroethane(sp)	83	8.080	8.080	(0.851)	204760	50.0000	47.518
74 1,2,3-Trichloropropane	110	8.125	8.125	(0.855)	64226	50.0000	46.433
75 *trans-1,4-Dichloro-2-butene	53	8.150	8.150	(0.858)	51360	50.0000	46.029
76 n-Propylbenzene	91	8.234	8.234	(0.867)	1216191	50.0000	47.592
77 2-Chlorotoluene	91	8.330	8.330	(0.877)	732664	50.0000	47.631
78 1,3,5-Trimethylbenzene	105	8.468	8.468	(0.892)	844696	50.0000	48.326
79 4-Chlorotoluene	91	8.471	8.471	(0.892)	815048	50.0000	46.631
80 tert-Butylbenzene	119	8.933	8.933	(0.941)	716058	50.0000	46.780
81 1,2,4-Trimethylbenzene	105	9.007	9.007	(0.948)	863578	50.0000	47.698
82 sec-Butylbenzene	105	9.270	9.270	(0.976)	1021525	50.0000	46.937
83 1,3-Dichlorobenzene	146	9.402	9.402	(0.990)	405273	50.0000	46.808
84 p-Isopropyltoluene	119	9.492	9.492	(0.999)	873795	50.0000	47.828
85 1,4-Dichlorobenzene	146	9.530	9.530	(1.003)	400439	50.0000	47.011
86 1,2-Dichlorobenzene	146	10.018	10.018	(1.055)	371290	50.0000	46.724
87 n-Butylbenzene	91	10.044	10.044	(1.057)	828809	50.0000	54.569
88 1,2-Dibromo-3-chloropropane	157	10.945	10.945	(1.152)	34830	50.0000	46.006
89 1,2,4-Trichlorobenzene	180	11.825	11.825	(1.245)	284903	50.0000	49.072
90 Hexachlorobutadiene	225	12.014	12.014	(1.265)	127329	50.0000	45.320
91 Napthalene	128	12.052	12.052	(1.269)	702926	50.0000	47.975
92 1,2,3-Trichlorobenzene	180	12.287	12.287	(1.294)	258723	50.0000	52.225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Client ID: VST50
Sample Info: ICVKL123,1,1,3,,VST50
Column phase: J&W-624
Instrument: mk.i
Operator: 063005
Column diameter: 0.18
Y (x10^6)
Min
-Dibromofluoromethane+
-1,2-Dichloroethane-d4
-Fluorobenzene
-Toluene-d8
-Chlorobenzene-d5+
-4-Bromofluorobenzene
-1,4 Dichlorobenzene-d4+
/var/chem/gcms/mk.i/K121205I.b/icvkl123.d

Data File: /var/chem/gcms/mk.i/K121205I.b/icvkl124.d
Report Date: 14-Dec-2005 16:55

STL Knoxville

Volatile Organics by GC/MS

Data file : /var/chem/gcms/mk.i/K121205I.b/icvkl124.d
Lab Smp Id: ICVKL124 Client Smp ID: VST100
Inj Date : 12-DEC-2005 17:11
Operator : 063605 Inst ID: mk.i
Smp Info : ICVKL124,1,1,4,,VST100
Misc Info : K121205I,MS8260NM,all.sub
Comment : Volatile Organics by GC/MS
Method : /var/chem/gcms/mk.i/K121205I.b/MS8260NM.m
Meth Date : 14-Dec-2005 16:54 tillerm Quant Type: ISTD
Cal Date : 12-DEC-2005 17:11 Cal File: icvkl124.d
Als bottle: 2 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Uf*Vt/(Ws*1000) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Unit Correction Factor
Vt	5000.00000	Sample Volume Purged
Ws	5.00000	Weight of sample
Va	100.00000	Volume of Methanol Aliquot

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
*	1 Fluorobenzene	96	4.287	4.287	(1.000)	1029362	50.0000	
*	2 Chlorobenzene-d5	117	6.780	6.780	(1.000)	706945	50.0000	
*	3 1,4 Dichlorobenzene-d4	152	9.501	9.498	(1.000)	283456	50.0000	
$	4 1,2-Dichloroethane-d4	65	4.017	4.014	(0.937)	448972	100.000	90.513
$	5 Dibromofluoromethane	113	3.751	3.751	(0.875)	430263	100.000	94.060
$	6 Toluene-d8	98	5.564	5.564	(0.821)	1733193	100.000	92.119
$	7 4-Bromofluorobenzene	95	7.913	7.913	(0.833)	627475	100.000	91.439
M	8 1,2-Dichloroethene (total)	96				1005315	200.000	205.21
M	9 Xylene (total)	106				2539388	300.000	318.66
M	132 BTE(TOTAL)	100				4901698	100.000	305.92
	10 Dichlorodifluoromethane	85	0.873	0.869	(0.204)	513064	100.000	104.31
	11 Chloromethane (spcc)	50	1.014	1.011	(0.236)	610041	100.000	100.40
	12 Vinyl Chloride (ccc)	62	1.097	1.097	(0.256)	476970	100.000	100.81
	13 *1,3-Butadiene	39	1.129	1.126	(0.263)	329275	100.000	99.633

Data File: /var/chem/gcms/mk.i/K121205I.b/icvkl124.d
Report Date: 14-Dec-2005 16:55

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
14 Bromomethane	94	1.338	1.338	(0.312)	103075	100.000	90.719
15 Chloroethane	64	1.415	1.412	(0.330)	178290	100.000	99.182
16 *Vinyl Bromide	106	1.559	1.556	(0.364)	236082	100.000	100.99
17 Trichlorofluoromethane	101	1.608	1.607	(0.375)	333622	100.000	88.882
18 *2-Chloropropane	43	1.893	1.893	(0.442)	504800	100.000	96.610
19 1,1-Dichloroethene (ccc)	96	2.005	2.005	(0.468)	399437	100.000	103.99
20 *Freon 113	151	2.009	2.002	(0.469)	307967	100.000	102.03
21 Acetone	43	2.044	2.041	(0.477)	417928	400.000	382.76
22 *Iodomethane	142	2.131	2.127	(0.497)	513683	100.000	113.20
23 Carbon Disulfide	76	2.188	2.185	(0.510)	1547151	100.000	101.02
24 *2-Propanol	45	2.166	2.159	(0.505)	427613	1000.00	1054.5
25 *Acetonitrile	40	2.253	2.252	(0.525)	506286	2000.00	1952.1
26 Methylene Chloride	84	2.381	2.384	(0.555)	490837	100.000	100.31
27 *Acrylonitrile	53	2.567	2.564	(0.599)	2845351	2000.00	2074.4
28 *T-Butanol	59	2.477	2.474	(0.578)	2489773	5000.00	5147.3
29 trans-1,2-Dichloroethene	96	2.602	2.602	(0.607)	467433	100.000	102.26
30 *MTBE	73	2.609	2.609	(0.609)	1336661	100.000	102.04
31 *Hexane	57	2.827	2.827	(0.659)	1577339	200.000	204.14
32 1,1-Dichloroethane (spcc)	63	2.930	2.929	(0.683)	887861	100.000	98.711
33 *Vinyl Acetate	86	2.965	2.965	(0.692)	163477	200.000	197.90
34 2,2-Dichloropropane	77	3.385	3.382	(0.790)	701737	100.000	106.35
35 cis 1,2-Dichloroethene	96	3.382	3.382	(0.789)	537882	100.000	102.95
36 2-Butanone	43	3.388	3.385	(0.790)	714271	400.000	404.79
37 *Propionitrile	54	3.424	3.424	(0.799)	241451	100.000	100.07
38 Bromochloromethane	128	3.568	3.565	(0.832)	184206	100.000	95.404
39 *THF	42	3.610	3.610	(0.842)	480650	400.000	402.28
40 Chloroform (ccc)	83	3.629	3.629	(0.847)	865874	100.000	103.75
41 1,1,1-Trichloroethane	97	3.783	3.780	(0.882)	715072	100.000	99.218
42 Carbon Tetrachloride	117	3.915	3.915	(0.913)	589594	100.000	105.20
43 1,1-Dichloropropene	75	3.912	3.911	(0.912)	672465	100.000	98.698
44 Benzene	78	4.072	4.069	(0.950)	2033501	100.000	101.62
45 1,2-Dichloroethane	62	4.075	4.075	(0.951)	593481	100.000	101.18
46 Trichloroethene	130	4.582	4.582	(1.069)	477894	100.000	99.434
47 1,2-Dichloropropane (ccc)	63	4.752	4.752	(1.109)	487599	100.000	97.296
48 Dibromomethane	93	4.845	4.845	(1.130)	242155	100.000	96.942
49 *Methyl Methacrylate	41	4.845	4.845	(1.130)	394836	100.000	105.28
50 Bromodichloromethane	83	4.974	4.970	(1.160)	620990	100.000	101.43
51 *2-Chloroethylvinylether	63	5.214	5.214	(1.216)	276285	200.000	211.22
52 cis-1,3-Dichloropropene	75	5.336	5.336	(1.245)	796760	100.000	102.45
53 4-Methyl-2-pentanone	43	5.461	5.458	(0.805)	1550351	400.000	402.92
54 Toluene (ccc)	91	5.619	5.619	(0.829)	2150129	100.000	102.42
55 trans-1,3-Dichloropropene	75	5.792	5.792	(0.854)	691226	100.000	106.81
56 *Ethyl Methacrylate	69	5.875	5.875	(0.867)	605808	100.000	104.64
57 1,1,2-Trichloroethane	97	5.946	5.946	(0.877)	386017	100.000	101.24
58 Tetrachloroethene	164	6.081	6.081	(0.897)	367955	100.000	103.73
59 1,3-Dichloropropane	76	6.087	6.087	(0.898)	673603	100.000	102.45
60 2-Hexanone	43	6.158	6.154	(0.908)	1136316	400.000	411.18

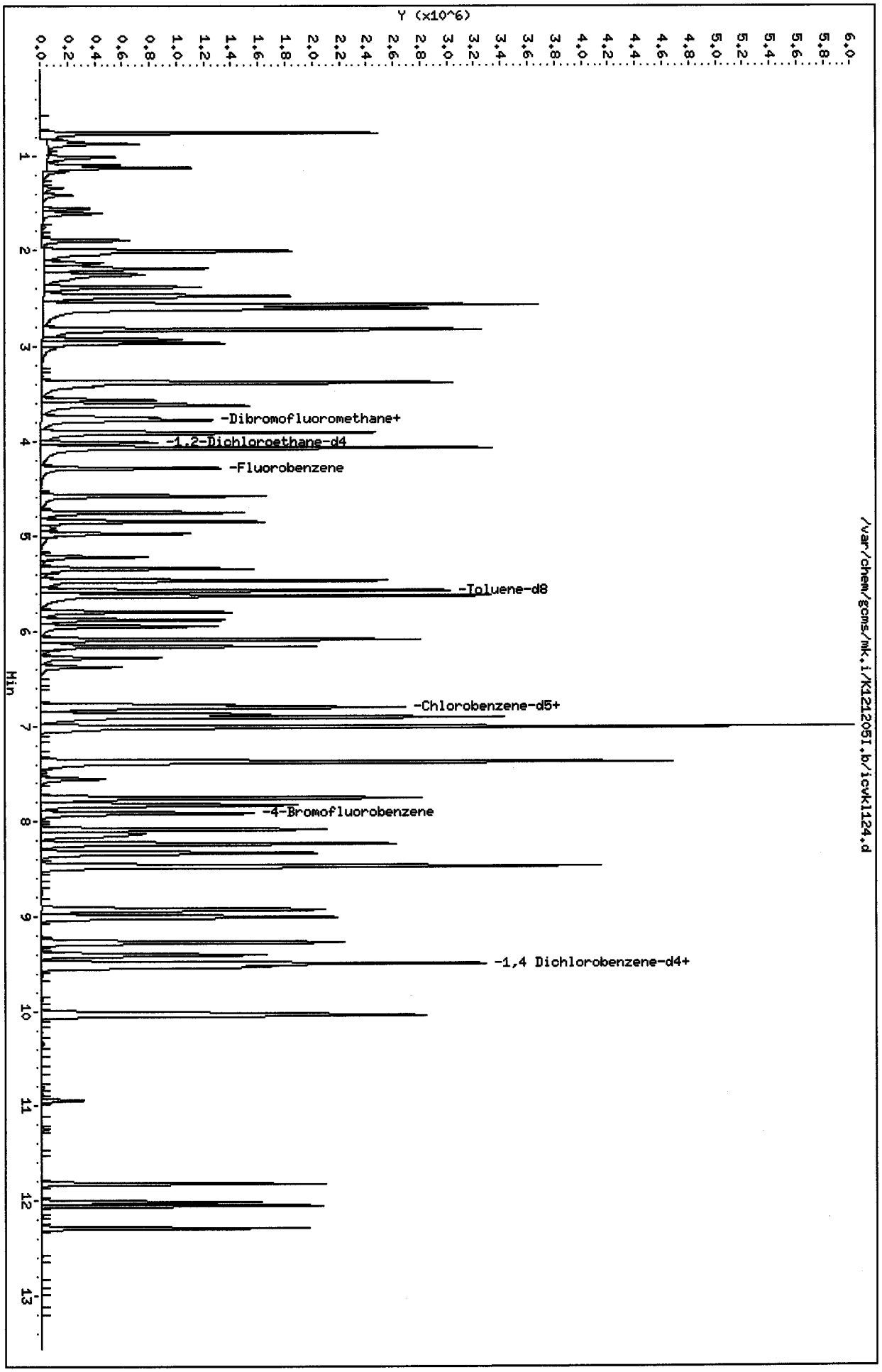
Data File: /var/chem/gcms/mk.i/K121205I.b/icvkl124.d
Report Date: 14-Dec-2005 16:55

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
61 Chlorodibromomethane	129	6.280	6.280	(0.926)	419486	100.000	103.77
62 1,2-Dibromoethane	107	6.376	6.376	(0.940)	373378	100.000	100.72
63 Chlorobenzene (spcc)	112	6.806	6.806	(1.004)	1293679	100.000	101.77
64 1,1,1,2-Tetrachloroethane	131	6.877	6.873	(1.014)	438194	100.000	101.54
65 Ethylbenzene (ccc)	106	6.905	6.902	(1.018)	718067	100.000	101.88
66 m&p-Xylene	106	7.008	7.008	(1.034)	1703643	200.000	203.26
67 o-Xylene	106	7.368	7.367	(1.087)	835745	100.000	115.39
68 Styrene	104	7.380	7.380	(1.089)	1387122	100.000	100.10
69 Bromoform (spcc)	173	7.554	7.553	(1.114)	233844	100.000	106.46
70 Isopropylbenzene	105	7.749	7.749	(1.143)	2143362	100.000	98.119
71 *cis-1,4-Dichloro-2-butene	53	7.810	7.813	(1.152)	158178	100.000	102.24
72 Bromobenzene	156	8.083	8.083	(0.851)	432564	100.000	100.30
73 1,1,2,2-Tetrachloroethane(sp)	83	8.083	8.080	(0.851)	416517	100.000	100.55
74 1,2,3-Trichloropropane	110	8.128	8.125	(0.855)	133321	100.000	100.26
75 *trans-1,4-Dichloro-2-butene	53	8.150	8.150	(0.858)	112588	100.000	104.96
76 n-Propylbenzene	91	8.234	8.234	(0.867)	2456742	100.000	100.00
77 2-Chlorotoluene	91	8.333	8.330	(0.877)	1482519	100.000	100.26
78 1,3,5-Trimethylbenzene	105	8.468	8.468	(0.891)	1669704	100.000	104.87
79 4-Chlorotoluene	91	8.475	8.471	(0.892)	1604777	100.000	95.506
80 tert-Butylbenzene	119	8.930	8.933	(0.940)	1462634	100.000	99.397
81 1,2,4-Trimethylbenzene	105	9.007	9.007	(0.948)	1715100	100.000	98.541
82 sec-Butylbenzene	105	9.274	9.270	(0.976)	2082756	100.000	99.548
83 1,3-Dichlorobenzene	146	9.405	9.402	(0.990)	809728	100.000	97.284
84 p-Isopropyltoluene	119	9.495	9.492	(0.999)	1745685	100.000	99.396
85 1,4-Dichlorobenzene	146	9.534	9.530	(1.003)	794250	100.000	96.996
86 1,2-Dichlorobenzene	146	10.018	10.018	(1.054)	745557	100.000	97.597
87 n-Butylbenzene	91	10.044	10.044	(1.057)	1606107	100.000	113.71
88 1,2-Dibromo-3-chloropropane	157	10.942	10.945	(1.152)	76978	100.000	105.77
89 1,2,4-Trichlorobenzene	180	11.825	11.825	(1.244)	525444	100.000	99.007
90 Hexachlorobutadiene	225	12.014	12.014	(1.264)	255222	100.000	99.941
91 Napthalene	128	12.053	12.052	(1.268)	1340877	100.000	95.196
92 1,2,3-Trichlorobenzene	180	12.290	12.287	(1.293)	482182	100.000	103.48

Data File: /var/chem/gcms/mk.i/K121205I.b/icvk1124.d
Date : 12-DEC-2005 17:11
Client ID: VST100
Sample Info: ICVK1124,1,1,4,,VST100

Instrument: mk.i
Operator: 063005
Column diameter: 0.18

Column phase: J&W-624



Data File: /var/chem/gcms/mk.i/K121205I.b/icvkl125.d
Report Date: 14-Dec-2005 16:55

STL Knoxville

Volatile Organics by GC/MS

Data file : /var/chem/gcms/mk.i/K121205I.b/icvkl125.d
Lab Smp Id: ICVKL125 Client Smp ID: VST250
Inj Date : 12-DEC-2005 17:35
Operator : 063605 Inst ID: mk.i
Smp Info : ICVKL125,1,1,5,,VST250
Misc Info : K121205I,MS8260NM,all.sub
Comment : Volatile Organics by GC/MS
Method : /var/chem/gcms/mk.i/K121205I.b/MS8260NM.m
Meth Date : 14-Dec-2005 16:54 tillerm Quant Type: ISTD
Cal Date : 12-DEC-2005 17:35 Cal File: icvkl125.d
Als bottle: 3 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Uf*Vt/(Ws*1000) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Unit Correction Factor
Vt	5000.00000	Sample Volume Purged
Ws	5.00000	Weight of sample
Va	100.00000	Volume of Methanol Aliquot

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
*	1 Fluorobenzene	96	4.287	4.287	(1.000)	1046997	50.0000	
*	2 Chlorobenzene-d5	117	6.780	6.780	(1.000)	698586	50.0000	
*	3 1,4 Dichlorobenzene-d4	152	9.501	9.498	(1.000)	305258	50.0000	
$	4 1,2-Dichloroethane-d4	65	4.017	4.014	(0.937)	1158030	250.000	229.53
$	5 Dibromofluoromethane	113	3.751	3.751	(0.875)	1044759	250.000	224.55
$	6 Toluene-d8	98	5.567	5.564	(0.821)	4081498	250.000	219.53
$	7 4-Bromofluorobenzene	95	7.916	7.913	(0.833)	1560902	250.000	211.22
M	8 1,2-Dichloroethene (total)	96				2264827	500.000	454.88
M	9 Xylene (total)	106				5443762	750.000	761.27
M	132 BTE(TOTAL)	100				11069280	250.000	688.40
	10 Dichlorodifluoromethane	85	0.869	0.869	(0.203)	1281661	250.000	256.19
	11 Chloromethane (spcc)	50	1.011	1.011	(0.236)	1523911	250.000	247.57
	12 Vinyl Chloride (ccc)	62	1.094	1.097	(0.255)	1160905	250.000	241.22
	13 *1,3-Butadiene	39	1.126	1.126	(0.263)	796818	250.000	237.04

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Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
14 Bromomethane	94	1.338	1.338	(0.312)	297839	250.000	257.72(A)
15 Chloroethane	64	1.412	1.412	(0.329)	462703	250.000	252.76
16 *Vinyl Bromide	106	1.556	1.556	(0.363)	583504	250.000	245.41
17 Trichlorofluoromethane	101	1.607	1.607	(0.375)	963001	250.000	253.59(A)
18 *2-Chloropropane	43	1.893	1.893	(0.442)	895031	250.000	250.48(A)
19 1,1-Dichloroethene (ccc)	96	2.005	2.005	(0.468)	952085	250.000	243.69
20 *Freon 113	151	2.002	2.002	(0.467)	719179	250.000	234.25
21 Acetone	43	2.041	2.041	(0.476)	1021815	1000.00	920.06
22 *Iodomethane	142	2.127	2.127	(0.496)	1143027	250.000	247.65
23 Carbon Disulfide	76	2.188	2.185	(0.510)	3721897	250.000	238.92
24 *2-Propanol	45	2.163	2.159	(0.504)	1123772	2500.00	2724.5
25 *Acetonitrile	40	2.252	2.252	(0.525)	1349198	5000.00	5114.5
26 Methylene Chloride	84	2.381	2.384	(0.555)	1187132	250.000	238.52
27 *Acrylonitrile	53	2.573	2.564	(0.600)	6677404	5000.00	4786.3
28 *T-Butanol	59	2.480	2.474	(0.579)	6281317	12500.0	12767
29 trans-1,2-Dichloroethene	96	2.602	2.602	(0.607)	1066584	250.000	229.41
30 *MTBE	73	2.609	2.609	(0.608)	3181447	250.000	238.78
31 *Hexane	57	2.827	2.827	(0.659)	3561879	500.000	453.21
32 1,1-Dichloroethane (spcc)	63	2.926	2.929	(0.683)	2130556	250.000	232.88
33 *Vinyl Acetate	86	2.965	2.965	(0.692)	411214	500.000	489.42
34 2,2-Dichloropropane	77	3.382	3.382	(0.789)	1661564	250.000	247.57
35 cis 1,2-Dichloroethene	96	3.382	3.382	(0.789)	1198243	250.000	225.47
36 2-Butanone	43	3.388	3.385	(0.790)	1710799	1000.00	953.20
37 *Propionitrile	54	3.427	3.424	(0.799)	613273	250.000	249.88
38 Bromochloromethane	128	3.568	3.565	(0.832)	453201	250.000	230.77
39 *THF	42	3.610	3.610	(0.842)	1214786	1000.00	999.59
40 Chloroform (ccc)	83	3.629	3.629	(0.847)	2029355	250.000	239.06
41 1,1,1-Trichloroethane	97	3.780	3.780	(0.882)	1707856	250.000	232.98
42 Carbon Tetrachloride	117	3.918	3.915	(0.914)	1352903	250.000	237.32
43 1,1-Dichloropropene	75	3.911	3.911	(0.912)	1512342	250.000	218.23
44 Benzene	78	4.072	4.069	(0.950)	4601416	250.000	226.08
45 1,2-Dichloroethane	62	4.078	4.075	(0.951)	1470230	250.000	246.42
46 Trichloroethene	130	4.582	4.582	(1.069)	1141913	250.000	233.59
47 1,2-Dichloropropane (ccc)	63	4.752	4.752	(1.109)	1155894	250.000	226.76
48 Dibromomethane	93	4.845	4.845	(1.130)	588322	250.000	231.56
49 *Methyl Methacrylate	41	4.845	4.845	(1.130)	968266	250.000	253.84
50 Bromodichloromethane	83	4.974	4.970	(1.160)	1535895	250.000	246.63
51 *2-Chloroethylvinylether	63	5.218	5.214	(1.217)	727528	500.000	546.84
52 cis-1,3-Dichloropropene	75	5.336	5.336	(1.245)	1939169	250.000	245.15
53 4-Methyl-2-pentanone	43	5.465	5.458	(0.806)	3925041	1000.00	1032.3
54 Toluene (ccc)	91	5.619	5.619	(0.829)	4889374	250.000	235.68
55 trans-1,3-Dichloropropene	75	5.792	5.792	(0.854)	1710298	250.000	267.45
56 *Ethyl Methacrylate	69	5.879	5.875	(0.867)	1500564	250.000	262.29
57 1,1,2-Trichloroethane	97	5.946	5.946	(0.877)	942550	250.000	250.16
58 Tetrachloroethene	164	6.084	6.081	(0.897)	802287	250.000	228.88
59 1,3-Dichloropropane	76	6.087	6.087	(0.898)	1586032	250.000	244.11
60 2-Hexanone	43	6.158	6.154	(0.908)	2829128	1000.00	1036.0

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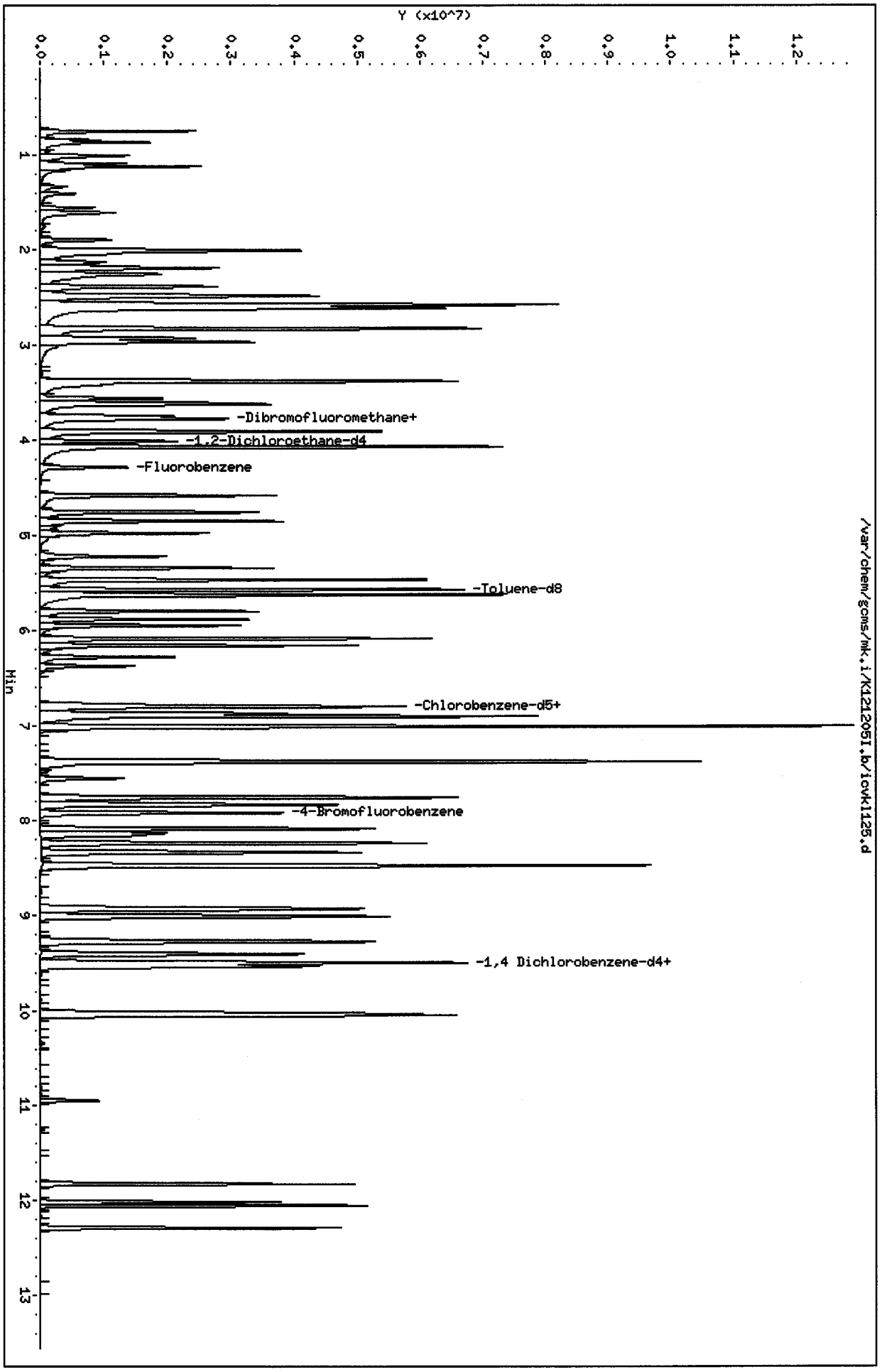
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
61 Chlorodibromomethane	129	6.283	6.280	(0.927)	1051909	250.000	263.33
62 1,2-Dibromoethane	107	6.376	6.376	(0.940)	929096	250.000	253.62
63 Chlorobenzene (spcc)	112	6.806	6.806	(1.004)	2969856	250.000	236.43
64 1,1,1,2-Tetrachloroethane	131	6.877	6.873	(1.014)	1031335	250.000	241.85
65 Ethylbenzene (ccc)	106	6.905	6.902	(1.018)	1578489	250.000	226.63
66 m&p-Xylene	106	7.011	7.008	(1.034)	3601435	500.000	499.56
67 o-Xylene	106	7.371	7.367	(1.087)	1842327	250.000	261.71
68 Styrene	104	7.384	7.380	(1.089)	3095177	250.000	226.02
69 Bromoform (spcc)	173	7.557	7.553	(1.115)	613045	250.000	282.43
70 Isopropylbenzene	105	7.753	7.749	(1.143)	4961755	250.000	229.86
71 *cis-1,4-Dichloro-2-butene	53	7.814	7.813	(1.152)	415171	250.000	271.55
72 Bromobenzene	156	8.086	8.083	(0.851)	1024173	250.000	220.52
73 1,1,2,2-Tetrachloroethane(sp)	83	8.083	8.080	(0.851)	1050421	250.000	235.46
74 1,2,3-Trichloropropane	110	8.128	8.125	(0.855)	356294	250.000	248.81
75 *trans-1,4-Dichloro-2-butene	53	8.154	8.150	(0.858)	312270	250.000	270.32
76 n-Propylbenzene	91	8.237	8.234	(0.867)	5814489	250.000	219.78
77 2-Chlorotoluene	91	8.337	8.330	(0.877)	3562099	250.000	223.69
78 1,3,5-Trimethylbenzene	105	8.471	8.468	(0.892)	3855925	250.000	246.30
79 4-Chlorotoluene	91	8.478	8.471	(0.892)	3749466	250.000	207.21
80 tert-Butylbenzene	119	8.933	8.933	(0.940)	3561045	250.000	224.72
81 1,2,4-Trimethylbenzene	105	9.010	9.007	(0.948)	4214161	250.000	224.83
82 sec-Butylbenzene	105	9.274	9.270	(0.976)	5071492	250.000	225.08
83 1,3-Dichlorobenzene	146	9.408	9.402	(0.990)	2053400	250.000	229.08
84 p-Isopropyltoluene	119	9.495	9.492	(0.999)	4208448	250.000	222.51
85 1,4-Dichlorobenzene	146	9.533	9.530	(1.003)	2000866	250.000	226.90
86 1,2-Dichlorobenzene	146	10.021	10.018	(1.055)	1911678	250.000	232.37
87 n-Butylbenzene	91	10.047	10.044	(1.057)	3827476	250.000	256.05
88 1,2-Dibromo-3-chloropropane	157	10.945	10.945	(1.152)	240685	250.000	307.08(A)
89 1,2,4-Trichlorobenzene	180	11.828	11.825	(1.245)	1289404	250.000	251.33
90 Hexachlorobutadiene	225	12.017	12.014	(1.265)	606522	250.000	252.42
91 Napthalene	128	12.056	12.052	(1.269)	3529305	250.000	232.67
92 1,2,3-Trichlorobenzene	180	12.293	12.287	(1.294)	1202512	250.000	242.75

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.


Data File: /var/chem/gcms/mk.i/K121205I.b/icvk1125.d
Date : 12-DEC-2005 17:35
Client ID: VST250
Sample Info: ICVK1125,1,1.5,,VST250
Column phase: J&W-624
Instrument: mk.i
Operator: 063005
Column diameter: 0.18
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0.5
0.6
0.7
0.8
0.9
1.0
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Min
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8
9
10
11
12
13
-Dibromofluoromethane+
-1,2-Dichloroethane-d4
-Fluorobenzene
-Toluene-d8
-Chlorobenzene-d5+
-4-Bromofluorobenzene
-1,4 Dichlorobenzene-d4+
/var/chem/gcms/mk.i/K121205I.b/icvk1125.d

Data File: /var/chem/gcms/mk.i/K121205I.b/icvkl128.d
Report Date: 14-Dec-2005 16:55

STL Knoxville

Volatile Organics by GC/MS

Data file : /var/chem/gcms/mk.i/K121205I.b/icvkl128.d
Lab Smp Id: ICVKL128 Client Smp ID: VST400
Inj Date : 12-DEC-2005 17:58
Operator : 063605 Inst ID: mk.i
Smp Info : ICVKL128,1,1,8,,VST400
Misc Info : K121205I,MS8260NM,all.sub
Comment : Volatile Organics by GC/MS
Method : /var/chem/gcms/mk.i/K121205I.b/MS8260NM.m
Meth Date : 14-Dec-2005 16:54 tillerm Quant Type: ISTD
Cal Date : 12-DEC-2005 17:58 Cal File: icvkl128.d
Als bottle: 6 Calibration Sample, Level: 8
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Uf*Vt/(Ws*1000) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Unit Correction Factor
Vt	5000.00000	Sample Volume Purged
Ws	5.00000	Weight of sample
Va	100.00000	Volume of Methanol Aliquot

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
*	1 Fluorobenzene	96	4.287	4.287	(1.000)	1099053	50.0000	
*	2 Chlorobenzene-d5	117	6.780	6.780	(1.000)	729836	50.0000	
*	3 1,4 Dichlorobenzene-d4	152	9.501	9.498	(1.000)	296447	50.0000	
$	4 1,2-Dichloroethane-d4	65	4.017	4.014	(0.937)	239672	400.000	46.932
$	5 Dibromofluoromethane	113	3.754	3.751	(0.876)	221883	400.000	47.113
$	6 Toluene-d8	98	5.567	5.564	(0.821)	1010922	400.000	52.045
$	7 4-Bromofluorobenzene	95	7.916	7.913	(0.833)	410394	400.000	57.184
M	8 1,2-Dichloroethene (total)	96				3419978	800.000	679.17
M	9 Xylene (total)	106				7847530	1200.00	1113.2
M	132 BTE(TOTAL)	100				16899426	400.000	1010.0
	10 Dichlorodifluoromethane	85	0.870	0.869	(0.203)	1994865	400.000	394.74
	11 Chloromethane (spcc)	50	1.008	1.011	(0.235)	2474863	400.000	402.07(A)
	12 Vinyl Chloride (ccc)	62	1.094	1.097	(0.255)	1839997	400.000	377.45
	13 *1,3-Butadiene	39	1.123	1.126	(0.262)	1276494	400.000	375.77

Data File: /var/chem/gcms/mk.i/K121205I.b/icvkl128.d
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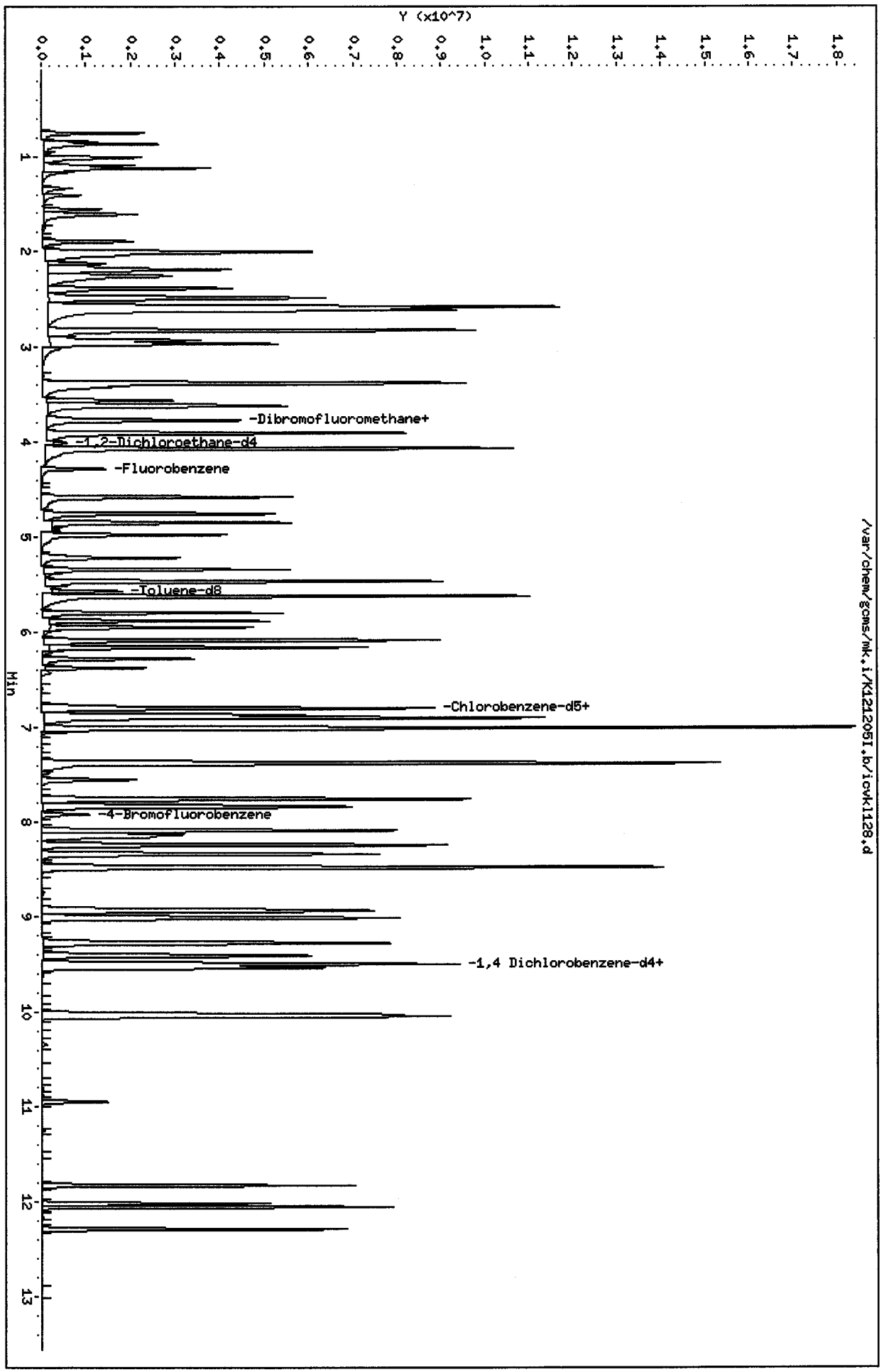
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
14 Bromomethane	94	1.335	1.338	(0.311)	511656	400.000	436.50(A)
15 Chloroethane	64	1.412	1.412	(0.329)	731597	400.000	399.15
16 *Vinyl Bromide	106	1.556	1.556	(0.363)	955892	400.000	396.98
17 Trichlorofluoromethane	101	1.608	1.607	(0.375)	1869422	400.000	493.84(A)
18 *2-Chloropropane	43	1.893	1.893	(0.442)	1687653	400.000	815.04(A)
19 1,1-Dichloroethene (ccc)	96	2.005	2.005	(0.468)	1477430	400.000	374.28
20 *Freon 113	151	2.002	2.002	(0.467)	1097567	400.000	353.73
21 Acetone	43	2.041	2.041	(0.476)	1621665	1600.00	1442.6(A)
22 *Iodomethane	142	2.127	2.127	(0.496)	1592358	400.000	341.42
23 Carbon Disulfide	76	2.188	2.185	(0.510)	5826699	400.000	370.15
24 *2-Propanol	45	2.163	2.159	(0.504)	1640048	4000.00	3937.1
25 *Acetonitrile	40	2.253	2.252	(0.525)	2096565	8000.00	7868.0
26 Methylene Chloride	84	2.381	2.384	(0.555)	1874367	400.000	372.72
27 *Acrylonitrile	53	2.580	2.564	(0.602)	9725142	8000.00	6898.0
28 *T-Butanol	59	2.484	2.474	(0.579)	9656114	20000.0	19430
29 trans-1,2-Dichloroethene	96	2.602	2.602	(0.607)	1594975	400.000	339.43
30 *MTBE	73	2.609	2.609	(0.609)	4963894	400.000	368.71
31 *Hexane	57	2.827	2.827	(0.659)	5298379	800.000	666.97
32 1,1-Dichloroethane (spcc)	63	2.930	2.929	(0.683)	3177207	400.000	342.74
33 *Vinyl Acetate	86	2.965	2.965	(0.692)	672144	800.000	790.48(A)
34 2,2-Dichloropropane	77	3.385	3.382	(0.790)	2585767	400.000	381.34
35 cis 1,2-Dichloroethene	96	3.382	3.382	(0.789)	1825003	400.000	339.74
36 2-Butanone	43	3.389	3.385	(0.790)	2461882	1600.00	1357.3
37 *Propionitrile	54	3.427	3.424	(0.799)	962889	400.000	388.37
38 Bromochloromethane	128	3.568	3.565	(0.832)	693550	400.000	349.44
39 *THF	42	3.613	3.610	(0.843)	1849063	1600.00	1506.1
40 Chloroform (ccc)	83	3.629	3.629	(0.847)	3126808	400.000	364.53
41 1,1,1-Trichloroethane	97	3.780	3.780	(0.882)	2749226	400.000	370.20
42 Carbon Tetrachloride	117	3.918	3.915	(0.914)	2193272	400.000	380.80
43 1,1-Dichloropropene	75	3.912	3.911	(0.912)	2270633	400.000	323.27
44 Benzene	78	4.072	4.069	(0.950)	7091073	400.000	344.71
45 1,2-Dichloroethane	62	4.078	4.075	(0.951)	2262633	400.000	375.36
46 Trichloroethene	130	4.582	4.582	(1.069)	1758239	400.000	355.90
47 1,2-Dichloropropane (ccc)	63	4.755	4.752	(1.109)	1860392	400.000	360.22
48 Dibromomethane	93	4.845	4.845	(1.130)	885398	400.000	343.89
49 *Methyl Methacrylate	41	4.849	4.845	(1.131)	1478946	400.000	383.78
50 Bromodichloromethane	83	4.974	4.970	(1.160)	2440204	400.000	386.89
51 *2-Chloroethylvinylether	63	5.218	5.214	(1.217)	1128604	800.000	840.06(A)
52 cis-1,3-Dichloropropene	75	5.340	5.336	(1.246)	3004288	400.000	375.01
53 4-Methyl-2-pentanone	43	5.465	5.458	(0.806)	5813263	1600.00	1463.4
54 Toluene (ccc)	91	5.622	5.619	(0.829)	7477955	400.000	345.03
55 trans-1,3-Dichloropropene	75	5.795	5.792	(0.855)	2682048	400.000	401.44(A)
56 *Ethyl Methacrylate	69	5.879	5.875	(0.867)	2338543	400.000	391.27
57 1,1,2-Trichloroethane	97	5.949	5.946	(0.877)	1452382	400.000	368.96
58 Tetrachloroethene	164	6.084	6.081	(0.897)	1175055	400.000	320.87
59 1,3-Dichloropropane	76	6.090	6.087	(0.898)	2395042	400.000	352.84
60 2-Hexanone	43	6.161	6.154	(0.909)	4307331	1600.00	1509.7

Data File: /var/chem/gcms/mk.i/K121205I.b/icvkl128.d
Report Date: 14-Dec-2005 16:55

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
61 Chlorodibromomethane	129	6.283	6.280	(0.927)	1657225	400.000	397.10
62 1,2-Dibromoethane	107	6.379	6.376	(0.941)	1456514	400.000	380.57
63 Chlorobenzene (spcc)	112	6.806	6.806	(1.004)	4464044	400.000	340.17
64 1,1,1,2-Tetrachloroethane	131	6.877	6.873	(1.014)	1601085	400.000	359.39
65 Ethylbenzene (ccc)	106	6.909	6.902	(1.019)	2330398	400.000	320.26
66 m&p-Xylene	106	7.011	7.008	(1.034)	5156972	800.000	745.93(A)
67 o-Xylene	106	7.371	7.367	(1.087)	2690558	400.000	367.23
68 Styrene	104	7.387	7.380	(1.089)	4515916	400.000	315.65
69 Bromoform (spcc)	173	7.554	7.553	(1.114)	990398	400.000	436.74(A)
70 Isopropylbenzene	105	7.756	7.749	(1.144)	7531805	400.000	333.98
71 *cis-1,4-Dichloro-2-butene	53	7.817	7.813	(1.153)	667275	400.000	417.76(A)
72 Bromobenzene	156	8.090	8.083	(0.851)	1543877	400.000	342.29
73 1,1,2,2-Tetrachloroethane(sp)	83	8.086	8.080	(0.851)	1623436	400.000	374.73
74 1,2,3-Trichloropropane	110	8.131	8.125	(0.856)	563467	400.000	405.18(A)
75 *trans-1,4-Dichloro-2-butene	53	8.160	8.150	(0.859)	504670	400.000	449.86(A)
76 n-Propylbenzene	91	8.240	8.234	(0.867)	8688170	400.000	338.16
77 2-Chlorotoluene	91	8.340	8.330	(0.878)	5419515	400.000	350.44
78 1,3,5-Trimethylbenzene	105	8.475	8.468	(0.892)	5652362	400.000	401.20(A)
79 4-Chlorotoluene	91	8.481	8.471	(0.893)	5507397	400.000	313.40(A)
80 tert-Butylbenzene	119	8.937	8.933	(0.941)	5389810	400.000	350.23
81 1,2,4-Trimethylbenzene	105	9.014	9.007	(0.949)	6305807	400.000	346.42
82 sec-Butylbenzene	105	9.280	9.270	(0.977)	7579066	400.000	346.38
83 1,3-Dichlorobenzene	146	9.412	9.402	(0.991)	3102101	400.000	356.37
84 p-Isopropyltoluene	119	9.498	9.492	(1.000)	6114153	400.000	332.87
85 1,4-Dichlorobenzene	146	9.540	9.530	(1.004)	2991670	400.000	349.34
86 1,2-Dichlorobenzene	146	10.025	10.018	(1.055)	2825261	400.000	353.63
87 n-Butylbenzene	91	10.050	10.044	(1.058)	5366747	400.000	371.32
88 1,2-Dibromo-3-chloropropane	157	10.945	10.945	(1.152)	383210	400.000	503.45(A)
89 1,2,4-Trichlorobenzene	180	11.828	11.825	(1.245)	1838330	400.000	399.49
90 Hexachlorobutadiene	225	12.017	12.014	(1.265)	844370	400.000	398.93
91 Napthalene	128	12.056	12.052	(1.269)	5319155	400.000	361.09
92 1,2,3-Trichlorobenzene	180	12.293	12.287	(1.294)	1750000	400.000	364.95

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.


Data File: /var/chem/gcms/mk.i/K121205I.b/icvk1128.d
Date : 12-DEC-2005 17:58
Client ID: VST400
Sample Info: ICVKL128,1,1,8,,VST400
Column phase: J&W-624
Instrument: mk.i
Operator: 063605
Column diameter: 0.18
Y (x10^7)
0.0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1.0
1.1
1.2
1.3
1.4
1.5
1.6
1.7
1.8
1
2
3
4
5
6
7
8
9
10
11
12
13
Min
-Dibromofluoromethane+
-1,2-Dichloroethane-d4
-Fluorobenzene
-Toluene-d8
-Chlorobenzene-d5+
-4-Bromofluorobenzene
-1,4 Dichlorobenzene-d4+
/var/chem/gcms/mk.i/K121205I.b/icvk1128.d

Data File: /var/chem/gcms/mk.i/K121205I.b/vcvkl12a.d
Report Date: 14-Dec-2005 16:56

STL Knoxville

Volatile Organics by GC/MS

Data file : /var/chem/gcms/mk.i/K121205I.b/vcvkl12a.d
Lab Smp Id: VCVKL12A Client Smp ID: .opc not found
Inj Date : 12-DEC-2005 18:45
Operator : 063605 Inst ID: mk.i
Smp Info : VCVKL12A,1,3,,2ND SOURCE
Misc Info : K121205I,MS8260NM,ss.sub
Comment : Volatile Organics by GC/MS
Method : /var/chem/gcms/mk.i/K121205I.b/MS8260NM.m
Meth Date : 14-Dec-2005 16:54 tillerm Quant Type: ISTD
Cal Date : 12-DEC-2005 17:35 Cal File: icvkl125.d
Als bottle: 1 QC Sample: 2ND SOURCE
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ss.sub
Target Version: 3.50
Processing Host: qmidhp01

Concentration Formula: Amt * DF * Uf*Vt/(Ws*1000) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Unit Correction Factor
Vt	5000.00000	Sample Volume Purged
Ws	5.00000	Weight of sample
Va	100.00000	Volume of Methanol Aliquot

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/Kg)
*	1 Fluorobenzene	96	4.287	4.287	(1.000)	1035641	50.0000	
*	2 Chlorobenzene-d5	117	6.780	6.780	(1.000)	721966	50.0000	
*	3 1,4 Dichlorobenzene-d4	152	9.498	9.498	(1.000)	302077	50.0000	
$	4 1,2-Dichloroethane-d4	65	4.014	4.014	(0.936)	237245	47.5385	47.538
$	5 Dibromofluoromethane	113	3.751	3.751	(0.875)	227004	49.3244	49.324
$	6 Toluene-d8	98	5.561	5.564	(0.820)	974868	50.7360	50.736
$	7 4-Bromofluorobenzene	95	7.910	7.913	(0.833)	367661	50.2747	50.275
M	8 1,2-Dichloroethene (total)	96				497287	100.813	100.81
M	9 Xylene (total)	106				1215065	140.613	140.61
	10 Dichlorodifluoromethane	85	0.870	0.869	(0.203)	220829	44.6256	44.626
	11 Chloromethane (spcc)	50	1.011	1.011	(0.236)	348406	56.7043	56.704
	12 Vinyl Chloride (ccc)	62	1.094	1.097	(0.255)	232487	48.8383	48.838
	14 Bromomethane	94	1.335	1.338	(0.311)	66936	58.5545	58.554

Data File: /var/chem/gcms/mk.i/K121205I.b/vcvkl12a.d
Report Date: 14-Dec-2005 16:56

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/Kg)
15 Chloroethane	64	1.412	1.412	(0.329)	84514	46.8350	46.835
17 Trichlorofluoromethane	101	1.604	1.607	(0.374)	258466	68.2730	68.273(R)
19 1,1-Dichloroethene (ccc)	96	2.002	2.005	(0.467)	205191	53.0959	53.096
21 Acetone	43	2.041	2.041	(0.476)	114385	104.123	104.12
22 *Iodomethane	142	2.127	2.127	(0.496)	499480	109.406	109.40
23 Carbon Disulfide	76	2.188	2.185	(0.510)	1406453	91.2737	91.274
26 Methylene Chloride	84	2.381	2.384	(0.555)	237130	48.1680	48.168
28 *T-Butanol	59	2.468	2.474	(0.576)	3923	8.06121	8.0612
29 trans-1,2-Dichloroethene	96	2.599	2.602	(0.606)	228288	49.6407	49.641
30 *MTBE	73	2.609	2.609	(0.609)	674260	51.1611	51.161
32 1,1-Dichloroethane (spcc)	63	2.927	2.929	(0.683)	435707	48.1475	48.147
33 *Vinyl Acetate	86	2.965	2.965	(0.692)	67634	81.3801	81.380
34 2,2-Dichloropropane	77	3.382	3.382	(0.789)	337554	50.8468	50.847
35 cis 1,2-Dichloroethene	96	3.382	3.382	(0.789)	268999	51.1720	51.172
36 2-Butanone	43	3.385	3.385	(0.790)	194623	109.627	109.63
38 Bromochloromethane	128	3.565	3.565	(0.832)	98725	50.8212	50.821
39 *THF	42	3.385	3.610	(0.790)	20065	16.6917	16.692
40 Chloroform (ccc)	83	3.629	3.629	(0.847)	423922	50.4857	50.486
41 1,1,1-Trichloroethane	97	3.780	3.780	(0.882)	357337	49.2806	49.281
42 Carbon Tetrachloride	117	3.915	3.915	(0.913)	294278	52.1874	52.187
43 1,1-Dichloropropene	75	3.912	3.911	(0.912)	327932	47.8391	47.839
44 Benzene	78	4.069	4.069	(0.949)	1002324	49.7869	49.787
45 1,2-Dichloroethane	62	4.075	4.075	(0.951)	308061	52.1998	52.200
46 Trichloroethene	130	4.579	4.582	(1.068)	242777	50.2076	50.208
47 1,2-Dichloropropane (ccc)	63	4.752	4.752	(1.109)	250861	49.7538	49.754
48 Dibromomethane	93	4.845	4.845	(1.130)	121338	48.2806	48.280
50 Bromodichloromethane	83	4.971	4.970	(1.159)	307735	49.9576	49.958
52 cis-1,3-Dichloropropene	75	5.336	5.336	(1.245)	411033	52.5337	52.534
53 4-Methyl-2-pentanone	43	5.462	5.458	(0.805)	435890	110.927	110.93
54 Toluene (ccc)	91	5.619	5.619	(0.829)	1021430	47.6418	47.642
55 trans-1,3-Dichloropropene	75	5.792	5.792	(0.854)	322868	48.8533	48.853
57 1,1,2-Trichloroethane	97	5.946	5.946	(0.877)	193376	49.6609	49.661
58 Tetrachloroethene	164	6.081	6.081	(0.897)	169019	46.6568	46.657
59 1,3-Dichloropropane	76	6.087	6.087	(0.898)	354075	52.7319	52.732
60 2-Hexanone	43	6.158	6.154	(0.908)	302870	107.315	107.31
61 Chlorodibromomethane	129	6.280	6.280	(0.926)	206646	50.0553	50.055
62 1,2-Dibromoethane	107	6.376	6.376	(0.940)	189396	50.0262	50.026
63 Chlorobenzene (spcc)	112	6.806	6.806	(1.004)	626926	48.2934	48.293
64 1,1,1,2-Tetrachloroethane	131	6.873	6.873	(1.014)	220408	50.0132	50.013
65 Ethylbenzene (ccc)	106	6.902	6.902	(1.018)	351875	48.8852	48.885
66 m&p-Xylene	106	7.005	7.008	(1.033)	812083	87.9724	87.972
67 o-Xylene	106	7.368	7.367	(1.087)	402982	52.6404	52.640
68 Styrene	104	7.380	7.380	(1.088)	691951	48.8934	48.893
69 Bromoform (spcc)	173	7.554	7.553	(1.114)	119879	53.4393	53.439
70 Isopropylbenzene	105	7.750	7.749	(1.143)	872278	39.1004	39.100
72 Bromobenzene	156	8.083	8.083	(0.851)	211729	46.0676	46.068
73 1,1,2,2-Tetrachloroethane(sp)	83	8.080	8.080	(0.851)	224412	50.8342	50.834

Data File: /var/chem/gcms/mk.i/K121205I.b/vcvkl12a.d
Report Date: 14-Dec-2005 16:56

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/Kg)
74	1,2,3-Trichloropropane	110	8.128	8.125	(0.856)	70172	49.5197	49.520
75	*trans-1,4-Dichloro-2-butene	53	8.147	8.150	(0.858)	750	0.65608	0.65608
76	n-Propylbenzene	91	8.231	8.234	(0.867)	1063041	40.6047	40.605
77	2-Chlorotoluene	91	8.330	8.330	(0.877)	674562	42.8064	42.806
78	1,3,5-Trimethylbenzene	105	8.468	8.468	(0.892)	762299	42.2182	42.218
79	4-Chlorotoluene	91	8.475	8.471	(0.892)	734657	41.0271	41.027
80	tert-Butylbenzene	119	8.930	8.933	(0.940)	646655	41.2363	41.236
81	1,2,4-Trimethylbenzene	105	9.004	9.007	(0.948)	788323	42.5011	42.501
82	sec-Butylbenzene	105	9.271	9.270	(0.976)	926645	41.5598	41.560
83	1,3-Dichlorobenzene	146	9.402	9.402	(0.990)	377669	42.5777	42.578
84	p-Isopropyltoluene	119	9.492	9.492	(0.999)	716690	38.2916	38.292
85	1,4-Dichlorobenzene	146	9.530	9.530	(1.003)	382108	43.7876	43.788
86	1,2-Dichlorobenzene	146	10.018	10.018	(1.055)	358365	44.0199	44.020
87	n-Butylbenzene	91	10.044	10.044	(1.057)	674414	42.5919	42.592
88	1,2-Dibromo-3-chloropropane	157	10.946	10.945	(1.152)	39956	51.5147	51.515
89	1,2,4-Trichlorobenzene	180	11.825	11.825	(1.245)	270991	45.3442	45.344
90	Hexachlorobutadiene	225	12.017	12.014	(1.265)	109215	37.7057	37.706
91	Napthalene	128	12.053	12.052	(1.269)	767272	51.1151	51.115
92	1,2,3-Trichlorobenzene	180	12.287	12.287	(1.294)	262674	51.7344	51.734

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

Data File: /var/chem/gcms/mk.i/K121205I.b/vcvkl12a.d
Report Date: 14-Dec-2005 16:56

STL Knoxville

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: mk.i
Lab File ID: vcvkl12a.d
Lab Smp Id: VCVKL12A
Analysis Type: VOA
Quant Type: ISTD
Operator: 063605
Calibration Date: 12-DEC-2005
Calibration Time: 16:48
Client Smp ID: .opc not found
Level: LOW
Sample Type: SOIL
Method File: /var/chem/gcms/mk.i/K121205I.b/MS8260NM.m
Misc Info: K121205I,MS8260NM,ss.sub

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 Fluorobenzene	1031796	515898	2063592	1035641	0.37
2 Chlorobenzene-d5	713924	356962	1427848	721966	1.13
3 1,4 Dichlorobenze	294859	147430	589718	302077	2.45

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 Fluorobenzene	4.29	3.79	4.79	4.29	0.01
2 Chlorobenzene-d5	6.78	6.28	7.28	6.78	0.00
3 1,4 Dichlorobenze	9.50	9.00	10.00	9.50	0.00

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

Data File: /var/chem/gcms/mk.i/K121205I.b/vcvkl12a.d
Report Date: 14-Dec-2005 16:56

STL Knoxville

RECOVERY REPORT

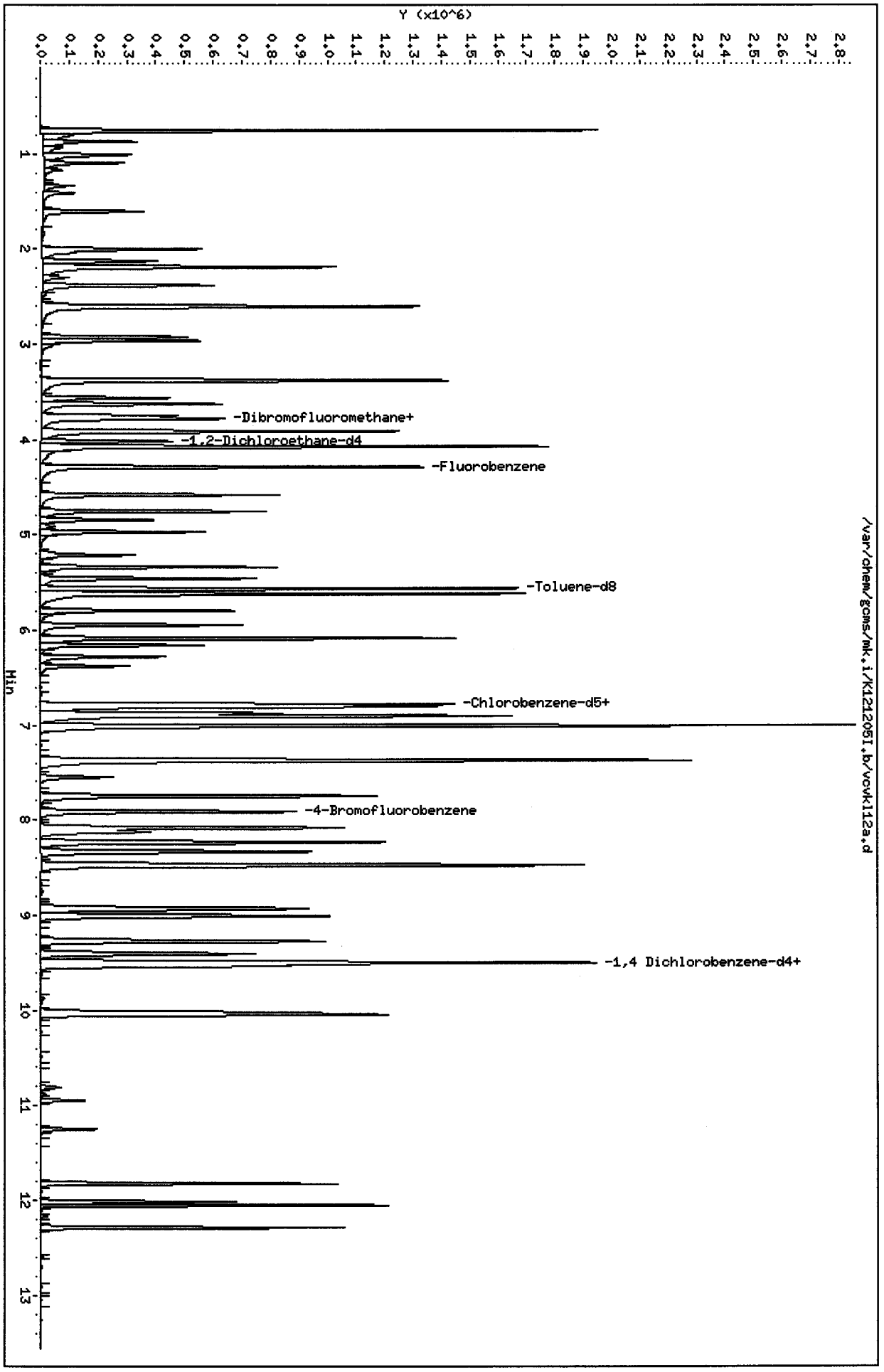
Client Name:
Client SDG: K121205I
Sample Matrix: SOLID
Fraction: VOA
Lab Smp Id: VCVKL12A
Client Smp ID: .opc not found
Level: LOW
Operator: 063605
Data Type: MS DATA
SampleType: 2ND SOURCE
SpikeList File: ssfulllist.spk
Quant Type: ISTD
Sublist File: ss.sub
Method File: /var/chem/gcms/mk.i/K121205I.b/MS8260NM.m
Misc Info: K121205I,MS8260NM,ss.sub

	SPIKE	COMPOUND	CONC ADDED ug/Kg	CONC RECOVERED ug/Kg	% RECOVERED	LIMITS
	10	Dichlorodifluorome	50.000	44.626	89.25	70-130
	11	Chloromethane (spc	50.000	56.704	113.41	70-130
	12	Vinyl Chloride (cc	50.000	48.838	97.68	70-130
	14	Bromomethane	50.000	58.554	117.11	70-130
	15	Chloroethane	50.000	46.835	93.67	70-130
	17	Trichlorofluoromet	50.000	68.273	136.55*	70-130
	19	1,1-Dichloroethene	50.000	53.096	106.19	70-130
	21	Acetone	100.00	104.12	104.12	70-130
	22	*Iodomethane	100.00	109.40	109.41	70-130
	23	Carbon Disulfide	100.00	91.274	91.27	70-130
	26	Methylene Chloride	50.000	48.168	96.34	70-130
	29	trans-1,2-Dichloro	50.000	49.641	99.28	70-130
	30	*MTBE	50.000	51.161	102.32	70-130
	32	1,1-Dichloroethane	50.000	48.147	96.29	70-130
	33	*Vinyl Acetate	100.00	81.380	81.38	70-130
	34	2,2-Dichloropropan	50.000	50.847	101.69	70-130
	35	cis 1,2-Dichloroet	50.000	51.172	102.34	70-130
M	8	1,2-Dichloroethene	100.00	100.81	100.81	70-130
	36	2-Butanone	100.00	109.63	109.63	70-130
	38	Bromochloromethane	50.000	50.821	101.64	70-130
	40	Chloroform (ccc)	50.000	50.486	100.97	70-130
	41	1,1,1-Trichloroeth	50.000	49.281	98.56	70-130
	42	Carbon Tetrachlori	50.000	52.187	104.37	70-130
	43	1,1-Dichloropropen	50.000	47.839	95.68	70-130
	44	Benzene	50.000	49.787	99.57	70-130
	45	1,2-Dichloroethane	50.000	52.200	104.40	70-130
	46	Trichloroethene	50.000	50.208	100.42	70-130
	47	1,2-Dichloropropan	50.000	49.754	99.51	70-130
	48	Dibromomethane	50.000	48.280	96.56	70-130
	50	Bromodichlorometha	50.000	49.958	99.92	70-130
	52	cis-1,3-Dichloropr	50.000	52.534	105.07	70-130
	53	4-Methyl-2-pentano	100.00	110.93	110.93	70-130
	54	Toluene (ccc)	50.000	47.642	95.28	70-130

Data File: /var/chem/gcms/mk.i/K121205I.b/vcvkl12a.d
Report Date: 14-Dec-2005 16:56

	SPIKE COMPOUND	CONC ADDED ug/Kg	CONC RECOVERED ug/Kg	% RECOVERED	LIMITS
	55 trans-1,3-Dichloro	50.000	48.853	97.71	70-130
	57 1,1,2-Trichloroeth	50.000	49.661	99.32	70-130
	58 Tetrachloroethene	50.000	46.657	93.31	70-130
	59 1,3-Dichloropropan	50.000	52.732	105.46	70-130
	60 2-Hexanone	100.00	107.31	107.31	70-130
	61 Chlorodibromometha	50.000	50.055	100.11	70-130
	62 1,2-Dibromoethane	50.000	50.026	100.05	70-130
	63 Chlorobenzene (spc	50.000	48.293	96.59	70-130
	65 Ethylbenzene (ccc)	50.000	48.885	97.77	70-130
	64 1,1,1,2-Tetrachlor	50.000	50.013	100.03	70-130
	66 m&p-Xylene	100.00	87.972	87.97	70-130
	67 o-Xylene	50.000	52.640	105.28	70-130
M	9 Xylene (total)	150.00	140.61	93.74	70-130
	68 Styrene	50.000	48.893	97.79	70-130
	69 Bromoform (spcc)	50.000	53.439	106.88	70-130
	70 Isopropylbenzene	50.000	39.100	78.20	70-130
	72 Bromobenzene	50.000	46.068	92.14	70-130
	73 1,1,2,2-Tetrachlor	50.000	50.834	101.67	70-130
	74 1,2,3-Trichloropro	50.000	49.520	99.04	70-130
	76 n-Propylbenzene	50.000	40.605	81.21	70-130
	77 2-Chlorotoluene	50.000	42.806	85.61	70-130
	78 1,3,5-Trimethylben	50.000	42.218	84.44	70-130
	79 4-Chlorotoluene	50.000	41.027	82.05	70-130
	80 tert-Butylbenzene	50.000	41.236	82.47	70-130
	81 1,2,4-Trimethylben	50.000	42.501	85.00	70-130
	82 sec-Butylbenzene	50.000	41.560	83.12	70-130
	83 1,3-Dichlorobenzen	50.000	42.578	85.16	70-130
	84 p-Isopropyltoluene	50.000	38.292	76.58	70-130
	85 1,4-Dichlorobenzen	50.000	43.788	87.58	70-130
	87 n-Butylbenzene	50.000	42.592	85.18	70-130
	86 1,2-Dichlorobenzen	50.000	44.020	88.04	70-130
	88 1,2-Dibromo-3-chlo	50.000	51.515	103.03	70-130
	89 1,2,4-Trichloroben	50.000	45.344	90.69	70-130
	90 Hexachlorobutadien	50.000	37.706	75.41	70-130
	91 Napthalene	50.000	51.115	102.23	70-130
	92 1,2,3-Trichloroben	50.000	51.734	103.47	70-130

	SURROGATE COMPOUND	CONC ADDED ug/Kg	CONC RECOVERED ug/Kg	% RECOVERED	LIMITS
$	4 1,2-Dichloroethane	50.000	47.538	95.08	65-129
$	5 Dibromofluorometha	50.000	49.324	98.65	70-126
$	6 Toluene-d8	50.000	50.736	101.47	71-133
$	7 4-Bromofluorobenze	50.000	50.275	100.55	66-141


Data File: /var/chem/gcms/mk.i/K121205I.b/vcvkl12a.d
Date : 12-DEC-2005 18:45
Client ID: .opc not found
Sample Info: VCVKL12A,1,3,,2ND SOURCE
Instrument: mk.i
Operator: 063605
Column diameter: 0.18
Column phase: J&W-624
Y (x10^6)
Min
-Dibromofluoromethane+
-1,2-Dichloroethane-d4
-Fluorobenzene
-Toluene-d8
-Chlorobenzene-d5+
-4-Bromofluorobenzene
-1,4 Dichlorobenzene-d4+
/var/chem/gcms/mk.i/K121205I.b/vcvkl12a.d

Data File: /var/chem/gcms/mk.i/K020306I.b/fickb031.d
Report Date: 03-Feb-2006 15:06

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Volatile Organics by GC/MS

Data file : /var/chem/gcms/mk.i/K020306I.b/fickb031.d
Lab Smp Id: FICKB031 Client Smp ID: VST1.5
Inj Date : 03-FEB-2006 12:19
Operator : 60487 Inst ID: mk.i
Smp Info : FICKB031,1,1,1,,VST1.5
Misc Info : K020306I,MS8260NM,freon.sub
Comment : Volatile Organics by GC/MS
Method : /var/chem/gcms/mk.i/K020306I.b/MS8260NM.m
Meth Date : 03-Feb-2006 15:05 wilesd Quant Type: ISTD
Cal Date : 03-FEB-2006 12:19 Cal File: fickb031.d
Als bottle: 2 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: freon.sub
Target Version: 3.50

Concentration Formula: Amt * DF * (Vt*5)/(Ws*Va) * CpndVariable

Vt	5000.00000	Sample Volume Purged
Ws	5.00000	Weight of sample
Va	100.00000	Volume of Methanol Aliquot

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
* 1 Fluorobenzene	96	4.287	4.284	(1.000)	1063690	50.0000	
* 2 Chlorobenzene-d5	117	6.780	6.780	(1.000)	738540	50.0000	
* 3 1,4 Dichlorobenzene-d4	152	9.498	9.498	(1.000)	315348	50.0000	
133 #1,1-Difluoroethene	64	0.786	0.780	(0.183)	2664	3.00000	3.2852
134 #1,1,1-Trifluoroethane	69	0.783	0.780	(0.183)	8708	1.50000	1.6041
135 #Chlorodifluoroethane	65	0.979	0.979	(0.228)	10069	1.50000	1.5312
136 #Chlorohexafluorobutene	129	1.155	1.155	(0.269)	6068	1.50000	1.6100
137 #Chlorotrifluoroethane	118	1.158	1.162	(0.270)	7677	1.50000	1.7029
138 #Pentafluorobutane	65	1.226	1.226	(0.286)	11961	1.50000	1.5946
139 #DCDFE	132	1.354	1.354	(0.316)	4183	1.50000	1.8466
140 #Chlorohexafluorobutane	131	1.604	1.604	(0.374)	4876	1.50000	1.6156
141 #DCFEa (freon 141)	81	1.806	1.803	(0.421)	11689	1.50000	1.6677
142 #DCTFEa (freon 123)	83	1.864	1.867	(0.435)	8764	1.50000	1.6146
144 #1,2-DCDFEa	99	2.455	2.451	(0.573)	14539	1.50000	1.5495
145 #1,1-DCDFEa	83	3.196	3.196	(0.746)	8788	1.50000	1.6505
146 #TCDFEa	83	3.982	3.979	(0.929)	11995	1.50000	1.6052
147 #1,1,1,2-TCDFEa	167	4.473	4.476	(1.043)	6061	1.50000	1.5615
148 #1,1,2,2-TCDFEa (freon 112)	101	4.531	4.524	(1.057)	9551	1.50000	1.8138
149 #TCFEa	115	4.691	4.691	(1.094)	10928	1.50000	1.6094

Data File: /var/chem/gcms/mk.i/K020306I.b/fickb031.d
Report Date: 03-Feb-2006 15:06

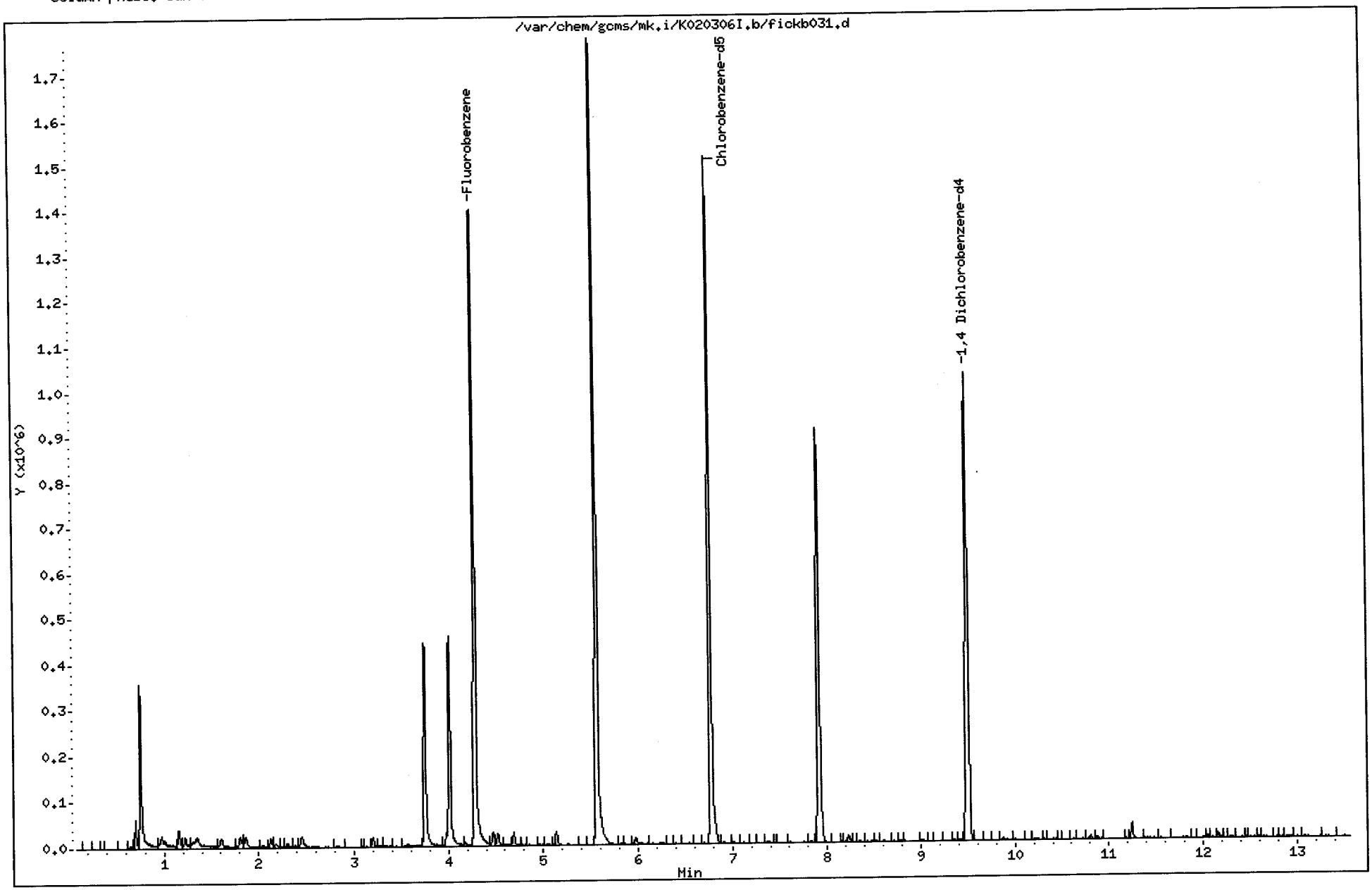
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
150 #Methoxyflurane	81	5.141	5.141	(1.199)	24143	1.50000	1.5890

Data File: /var/chem/gcms/mk.i/K020306I.b/fickb031.d
Date : 03-FEB-2006 12:19
Client ID: VST1.5
Sample Info: FICKB031,1,1,1,,VST1.5

Column phase: J&W-624

Instrument: mk.i

Operator: 60487
Column diameter: 0.18



Data File: /var/chem/gcms/mk.i/K020306I.b/fickb036.d
Report Date: 03-Feb-2006 15:06

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Volatile Organics by GC/MS

Data file : /var/chem/gcms/mk.i/K020306I.b/fickb036.d
Lab Smp Id: FICKB036 Client Smp ID: VST05
Inj Date : 03-FEB-2006 12:42
Operator : 60487 Inst ID: mk.i
Smp Info : FICKB036,1,1,6,,VST05
Misc Info : K020306I,MS8260NM,freon.sub
Comment : Volatile Organics by GC/MS
Method : /var/chem/gcms/mk.i/K020306I.b/MS8260NM.m
Meth Date : 03-Feb-2006 15:05 wilesd Quant Type: ISTD
Cal Date : 03-FEB-2006 12:42 Cal File: fickb036.d
Als bottle: 3 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: freon.sub
Target Version: 3.50

Concentration Formula: Amt * DF * (Vt*5)/(Ws*Va) * CpndVariable

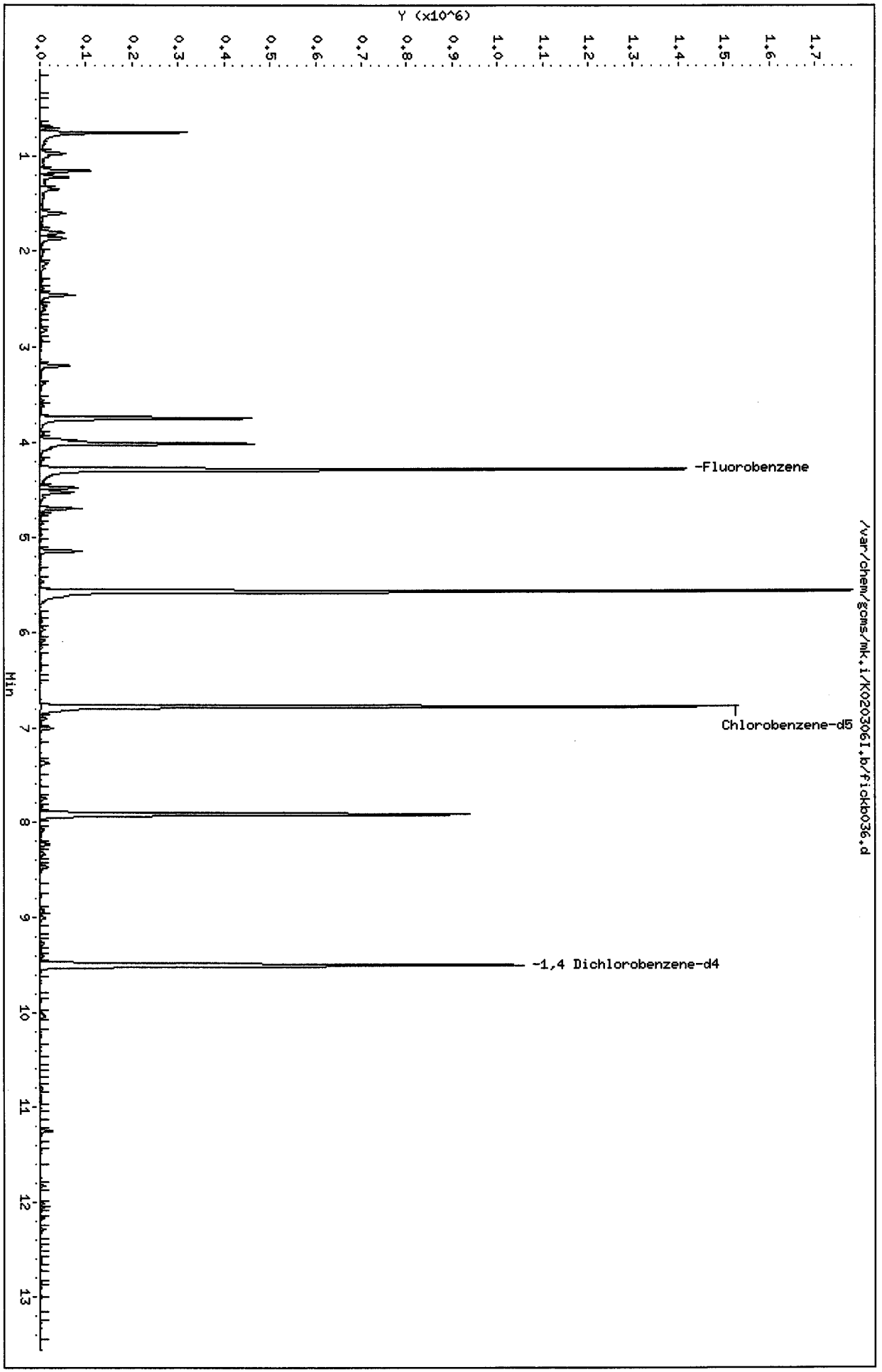
Vt	5000.00000	Sample Volume Purged
Ws	5.00000	Weight of sample
Va	100.00000	Volume of Methanol Aliquot

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
* 1 Fluorobenzene	96	4.287	4.284	(1.000)	1066473	50.0000	
* 2 Chlorobenzene-d5	117	6.780	6.780	(1.000)	746708	50.0000	
* 3 1,4 Dichlorobenzene-d4	152	9.498	9.498	(1.000)	324183	50.0000	
133 #1,1-Difluoroethene	64	0.786	0.780	(0.183)	7547	10.0000	9.2817
134 #1,1,1-Trifluoroethane	69	0.780	0.780	(0.182)	25564	5.00000	4.6848
135 #Chlorodifluoroethane	65	0.979	0.979	(0.228)	32092	5.00000	4.8674
136 #Chlorohexafluorobutene	129	1.158	1.155	(0.270)	19050	5.00000	5.0472
137 #Chlorotrifluoroethane	118	1.165	1.162	(0.272)	22753	5.00000	5.0334
138 #Pentafluorobutane	65	1.226	1.226	(0.286)	37726	5.00000	5.0163
139 #DCDFE	132	1.354	1.354	(0.316)	11962	5.00000	5.2125
140 #Chlorohexafluorobutane	131	1.611	1.604	(0.376)	15553	5.00000	5.1390
141 #DCFEa (freon 141)	81	1.803	1.803	(0.421)	35642	5.00000	5.0716
142 #DCTFEa (freon 123)	83	1.867	1.867	(0.436)	28074	5.00000	5.1583
144 #1,2-DCDFEa	99	2.451	2.451	(0.572)	45654	5.00000	4.8528
145 #1,1-DCDFEa	83	3.193	3.196	(0.745)	26869	5.00000	5.0332
146 #TCDFEa	83	3.979	3.979	(0.928)	37886	5.00000	5.0565
147 #1,1,1,2-TCDFEa	167	4.476	4.476	(1.044)	20063	5.00000	5.1149
148 #1,1,2,2-TCDFEa (freon 112)	101	4.524	4.524	(1.055)	26169	5.00000	4.9563
149 #TCFEa	115	4.695	4.691	(1.095)	33995	5.00000	4.9932

Data File: /var/chem/gcms/mk.i/K020306I.b/fickb036.d
Report Date: 03-Feb-2006 15:06

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
150 #Methoxyflurane	81	5.141	5.141	(1.199)	77255	5.00000	5.0714


Data File: /var/chem/gcms/mk.i/K020306I.b/fickb036.d
Date : 03-FEB-2006 12:42
Client ID: VST05
Sample Info: FICKB036,1,1,6,,VST05
Column phase: J&W-624
Instrument: mk.i
Operator: 60487
Column diameter: 0.18
Y (x10^6)
Min
-Fluorobenzene
Chlorobenzene-d5
-1,4 Dichlorobenzene-d4
/var/chem/gcms/mk.i/K020306I.b/fickb036.d

Data File: /var/chem/gcms/mk.i/K020306I.b/fickb037.d
Report Date: 03-Feb-2006 15:06

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Volatile Organics by GC/MS

Data file : /var/chem/gcms/mk.i/K020306I.b/fickb037.d
Lab Smp Id: FICKB037 Client Smp ID: VST10
Inj Date : 03-FEB-2006 13:05
Operator : 60487 Inst ID: mk.i
Smp Info : FICKB037,1,1,7,,VST10
Misc Info : K020306I,MS8260NM,freon.sub
Comment : Volatile Organics by GC/MS
Method : /var/chem/gcms/mk.i/K020306I.b/MS8260NM.m
Meth Date : 03-Feb-2006 15:05 wilesd Quant Type: ISTD
Cal Date : 03-FEB-2006 13:05 Cal File: fickb037.d
Als bottle: 4 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: freon.sub
Target Version: 3.50

Concentration Formula: Amt * DF * (Vt*5)/(Ws*Va) * CpndVariable

Vt	5000.00000	Sample Volume Purged
Ws	5.00000	Weight of sample
Va	100.00000	Volume of Methanol Aliquot

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
* 1 Fluorobenzene	96	4.284	4.284	(1.000)	1078449	50.0000	
* 2 Chlorobenzene-d5	117	6.777	6.780	(1.000)	751590	50.0000	
* 3 1,4 Dichlorobenzene-d4	152	9.495	9.498	(1.000)	320430	50.0000	
133 #1,1-Difluoroethene	64	0.780	0.780	(0.182)	14908	20.0000	18.130
134 #1,1,1-Trifluoroethane	69	0.783	0.780	(0.183)	50979	10.0000	9.2259
135 #Chlorodifluoroethane	65	0.979	0.979	(0.228)	63735	10.0000	9.5593
136 #Chlorohexafluorobutene	129	1.158	1.155	(0.270)	37868	10.0000	9.8371
137 #Chlorotrifluoroethane	118	1.162	1.162	(0.271)	43967	10.0000	9.6183
138 #Pentafluorobutane	65	1.226	1.226	(0.286)	75324	10.0000	9.9044
139 #DCDFE	132	1.354	1.354	(0.316)	22559	10.0000	9.5492
140 #Chlorohexafluorobutane	131	1.611	1.604	(0.376)	29419	10.0000	9.6126
141 #DCFEa (freon 141)	81	1.803	1.803	(0.421)	68365	10.0000	9.6198
142 #DCTFEa (freon 123)	83	1.867	1.867	(0.436)	52120	10.0000	9.4701
144 #1,2-DCDFEa	99	2.455	2.451	(0.573)	94176	10.0000	9.8992
145 #1,1-DCDFEa	83	3.196	3.196	(0.746)	52313	10.0000	9.6904
146 #TCDFEa	83	3.982	3.979	(0.930)	74017	10.0000	9.7690
147 #1,1,1,2-TCDFEa	167	4.476	4.476	(1.045)	38253	10.0000	9.6442
148 #1,1,2,2-TCDFEa (freon 112)	101	4.524	4.524	(1.056)	52401	10.0000	9.8143
149 #TCFEa	115	4.691	4.691	(1.095)	65878	10.0000	9.5686

Data File: /var/chem/gcms/mk.i/K020306I.b/fickb037.d
Report Date: 03-Feb-2006 15:06

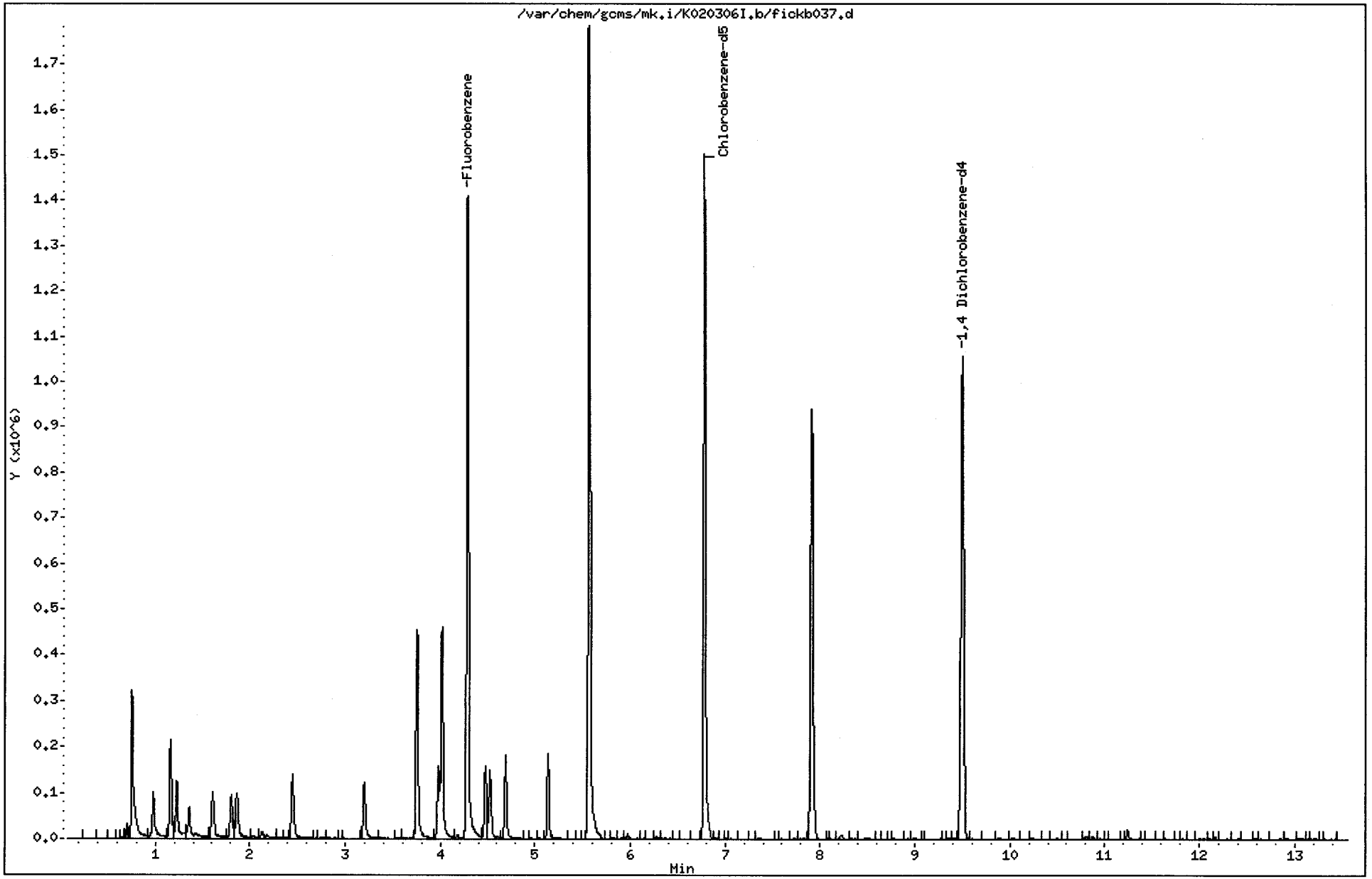
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
150 #Methoxyflurane	81	5.141	5.141	(1.200)	149329	10.0000	9.6938

Data File: /var/chem/gcms/mk.i/K020306I.b/fickb037.d
Date : 03-FEB-2006 13:05
Client ID: VST10
Sample Info: FICKB037,1,1,7,,VST10

Column phase: J&W-624

Instrument: mk.i

Operator: 60487
Column diameter: 0.18



Data File: /var/chem/gcms/mk.i/K020306I.b/fickb033.d
Report Date: 03-Feb-2006 15:06

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Volatile Organics by GC/MS

Data file : /var/chem/gcms/mk.i/K020306I.b/fickb033.d
Lab Smp Id: FICKB033 Client Smp ID: VST50
Inj Date : 03-FEB-2006 13:29
Operator : 60487 Inst ID: mk.i
Smp Info : FICKB033,1,1,3,,VST50
Misc Info : K020306I,MS8260NM,freon.sub
Comment : Volatile Organics by GC/MS
Method : /var/chem/gcms/mk.i/K020306I.b/MS8260NM.m
Meth Date : 03-Feb-2006 15:05 wilesd Quant Type: ISTD
Cal Date : 03-FEB-2006 13:29 Cal File: fickb033.d
Als bottle: 5 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: freon.sub
Target Version: 3.50

Concentration Formula: Amt * DF * (Vt*5)/(Ws*Va) * CpndVariable

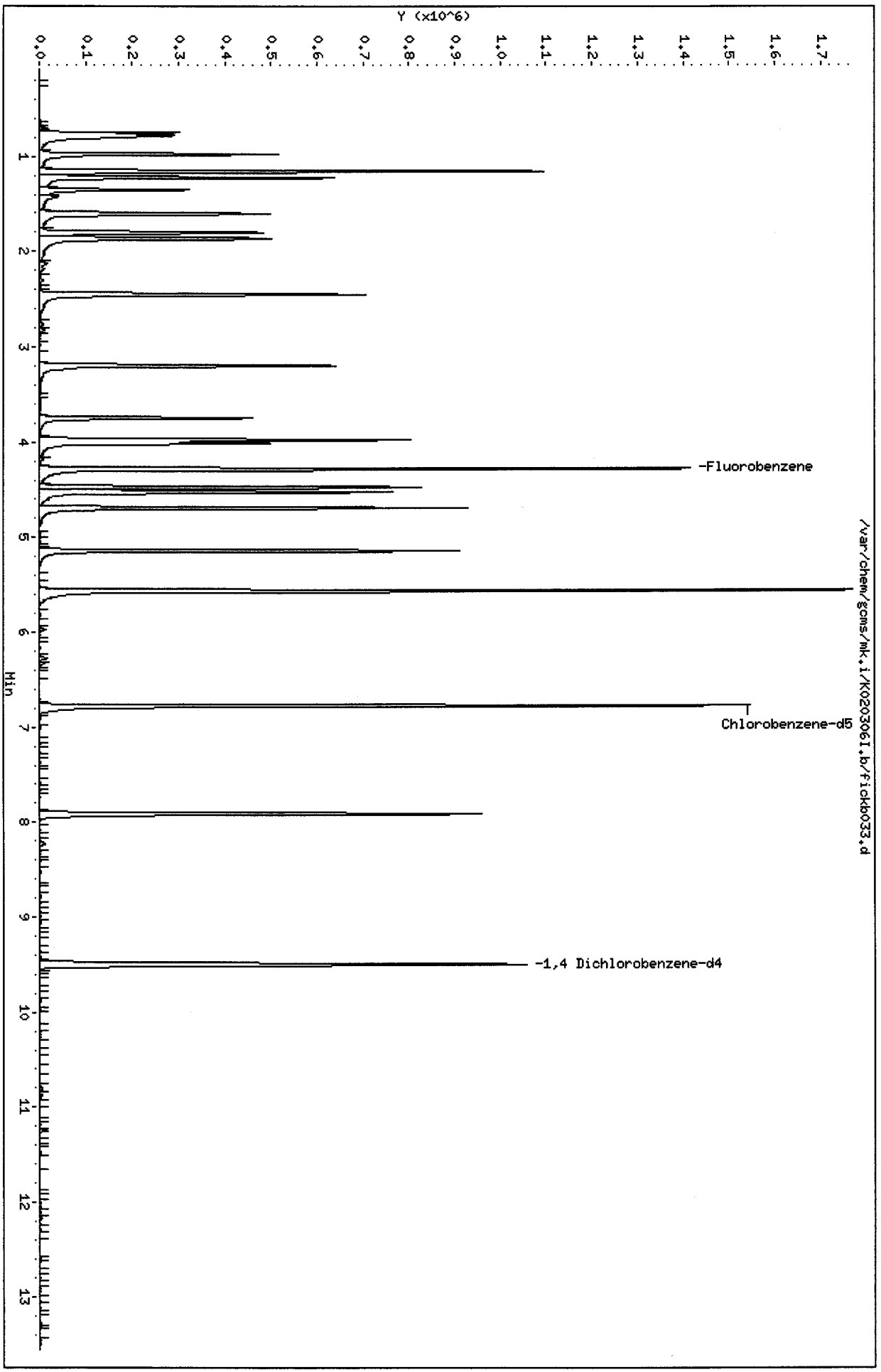
Vt	5000.00000	Sample Volume Purged
Ws	5.00000	Weight of sample
Va	100.00000	Volume of Methanol Aliquot

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
* 1 Fluorobenzene	96	4.284	4.284	(1.000)	1089746	50.0000	
* 2 Chlorobenzene-d5	117	6.780	6.780	(1.000)	748856	50.0000	
* 3 1,4 Dichlorobenzene-d4	152	9.498	9.498	(1.000)	324637	50.0000	
133 #1,1-Difluoroethene	64	0.780	0.780	(0.182)	96838	100.000	116.54
134 #1,1,1-Trifluoroethane	69	0.780	0.780	(0.182)	318750	50.0000	57.166
135 #Chlorodifluoroethane	65	0.979	0.979	(0.228)	360647	50.0000	53.530
136 #Chlorohexafluorobutene	129	1.155	1.155	(0.270)	197496	50.0000	51.204
137 #Chlorotrifluoroethane	118	1.162	1.162	(0.271)	238231	50.0000	51.575
138 #Pentafluorobutane	65	1.226	1.226	(0.286)	386660	50.0000	50.315
139 #DCDFE	132	1.354	1.354	(0.316)	121869	50.0000	52.505
140 #Chlorohexafluorobutane	131	1.604	1.604	(0.374)	156320	50.0000	50.548
141 #DCFEa (freon 141)	81	1.803	1.803	(0.421)	367569	50.0000	51.185
142 #DCTFEa (freon 123)	83	1.867	1.867	(0.436)	284000	50.0000	51.067
144 #1,2-DCDFEa	99	2.451	2.451	(0.572)	499650	50.0000	51.976
145 #1,1-DCDFEa	83	3.196	3.196	(0.746)	279390	50.0000	51.217
146 #TCDFEa	83	3.979	3.979	(0.929)	387328	50.0000	50.591
147 #1,1,1,2-TCDFEa	167	4.476	4.476	(1.045)	202920	50.0000	51.026
148 #1,1,2,2-TCDFEa (freon 112)	101	4.524	4.524	(1.056)	277127	50.0000	51.366
149 #TCFEa	115	4.691	4.691	(1.095)	363334	50.0000	52.226

Data File: /var/chem/gcms/mk.i/K020306I.b/fickb033.d
Report Date: 03-Feb-2006 15:06

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
150 #Methoxyflurane	81	5.141	5.141	(1.200)	791027	50.0000	50.818


Data File: /var/chem/gcms/mk.i/K0203061.b/fickb033.d
Date : 03-FEB-2006 13:29
Client ID: VST50
Sample Info: FICKB033,1,1,3,,VST50
Column phase: J&W-624
Instrument: mk.i
Operator: 60487
Column diameter: 0.18
Y (x10^6)
Min
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-Fluorobenzene
Chlorobenzene-d5
-1,4 Dichlorobenzene-d4

Data File: /var/chem/gcms/mk.i/K020306I.b/fickb034.d
Report Date: 03-Feb-2006 15:06

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Volatile Organics by GC/MS

Data file : /var/chem/gcms/mk.i/K020306I.b/fickb034.d
Lab Smp Id: FICKB034 Client Smp ID: VST100
Inj Date : 03-FEB-2006 13:53
Operator : 60487 Inst ID: mk.i
Smp Info : FICKB034,1,1,4,,VST100
Misc Info : K020306I,MS8260NM,freon.sub
Comment : Volatile Organics by GC/MS
Method : /var/chem/gcms/mk.i/K020306I.b/MS8260NM.m
Meth Date : 03-Feb-2006 15:05 wilesd Quant Type: ISTD
Cal Date : 03-FEB-2006 13:53 Cal File: fickb034.d
Als bottle: 6 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: freon.sub
Target Version: 3.50

Concentration Formula: Amt * DF * (Vt*5)/(Ws*Va) * CpndVariable

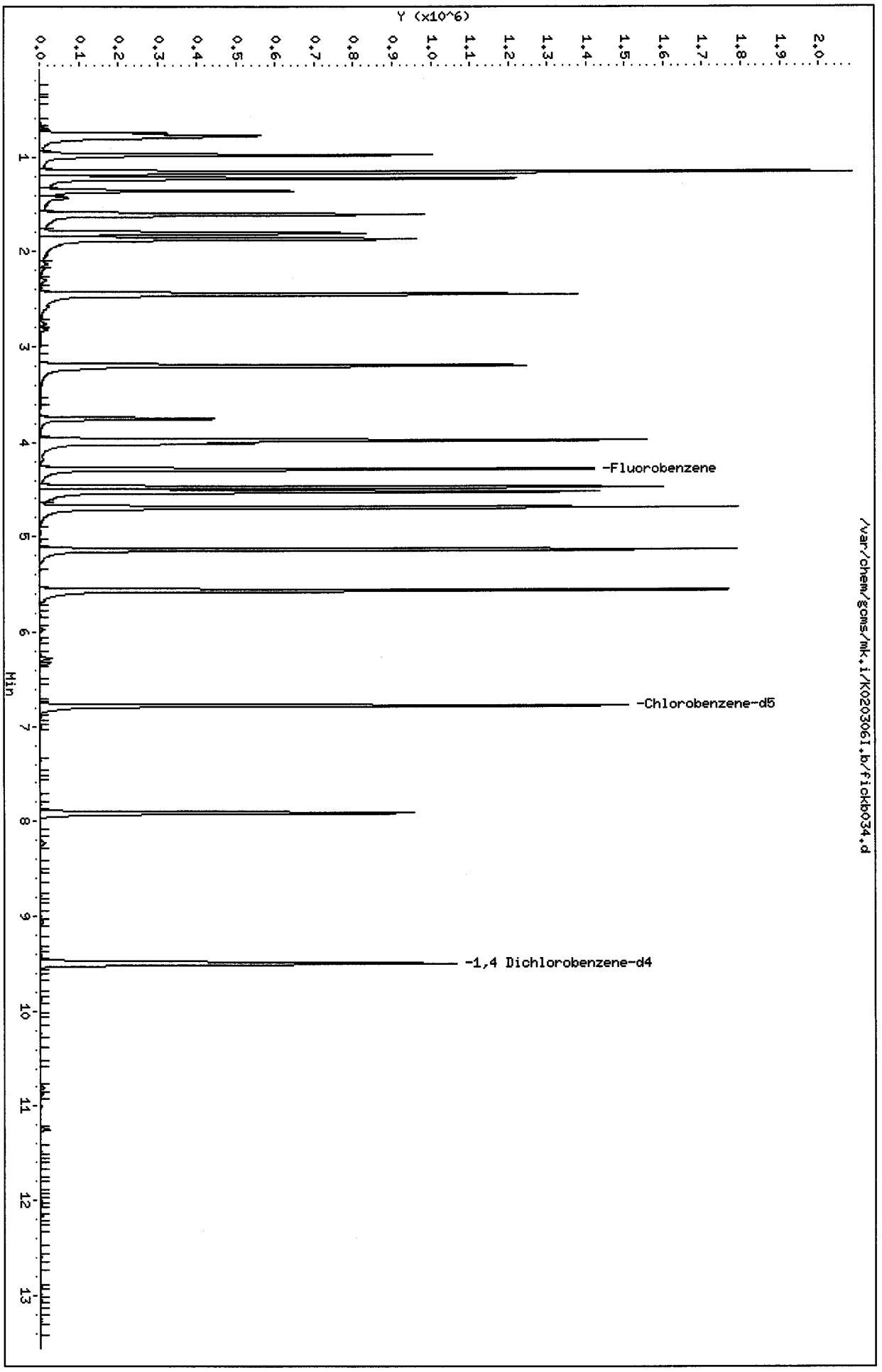
Vt	5000.00000	Sample Volume Purged
Ws	5.00000	Weight of sample
Va	100.00000	Volume of Methanol Aliquot

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
* 1 Fluorobenzene	96	4.287	4.284	(1.000)	1078036	50.0000	
* 2 Chlorobenzene-d5	117	6.777	6.780	(1.000)	753127	50.0000	
* 3 1,4 Dichlorobenzene-d4	152	9.498	9.498	(1.000)	316776	50.0000	
133 #1,1-Difluoroethene	64	0.786	0.780	(0.183)	187229	200.000	292.59
134 #1,1,1-Trifluoroethane	69	0.780	0.780	(0.182)	640931	100.000	111.56
135 #Chlorodifluoroethane	65	0.978	0.979	(0.228)	724255	100.000	106.36
136 #Chlorohexafluorobutene	129	1.155	1.155	(0.269)	386507	100.000	100.33
137 #Chlorotrifluoroethane	118	1.161	1.162	(0.271)	472750	100.000	102.57
138 #Pentafluorobutane	65	1.226	1.226	(0.286)	759073	100.000	99.887
139 #DCDFE	132	1.357	1.354	(0.317)	250068	100.000	104.36
140 #Chlorohexafluorobutane	131	1.607	1.604	(0.375)	320614	100.000	103.56
141 #DCFEa (freon 141)	81	1.806	1.803	(0.421)	656106	100.000	94.156
142 #DCTFEa (freon 123)	83	1.864	1.867	(0.435)	555989	100.000	100.79
144 #1,2-DCDFEa	99	2.451	2.451	(0.572)	981862	100.000	102.42
145 #1,1-DCDFEa	83	3.196	3.196	(0.745)	553366	100.000	101.90
146 #TCDFEa	83	3.979	3.979	(0.928)	764175	100.000	100.67
147 #1,1,1,2-TCDFEa	167	4.476	4.476	(1.044)	397940	100.000	100.27
148 #1,1,2,2-TCDFEa (freon 112)	101	4.528	4.524	(1.056)	559587	100.000	103.59
149 #TCFEa	115	4.694	4.691	(1.095)	701839	100.000	101.48

Data File: /var/chem/gcms/mk.i/K020306I.b/fickb034.d
Report Date: 03-Feb-2006 15:06

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
150 #Methoxyflurane	81	5.140	5.141	(1.199)	1561162	100.000	101.03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Date : 03-FEB-2006 13:53
Client ID: VST100
Sample Info: FICKB034,1,1,4,,VST100
Column phase: J&W-624
Instrument: mk.i
Operator: 60487
Column diameter: 0.18
Y (x10^6)
Min
-Fluorobenzene
-Chlorobenzene-d5
-1,4 Dichlorobenzene-d4
/var/chem/gcms/mk.i/K020306I.b/fickb034.d

Data File: /var/chem/gcms/mk.i/K020306I.b/fickb035.d
Report Date: 03-Feb-2006 15:06

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Volatile Organics by GC/MS

Data file : /var/chem/gcms/mk.i/K020306I.b/fickb035.d
Lab Smp Id: FICKB035 Client Smp ID: VST250
Inj Date : 03-FEB-2006 14:16
Operator : 60487 Inst ID: mk.i
Smp Info : FICKB035,1,1,5,,VST250
Misc Info : K020306I,MS8260NM,freon.sub
Comment : Volatile Organics by GC/MS
Method : /var/chem/gcms/mk.i/K020306I.b/MS8260NM.m
Meth Date : 03-Feb-2006 15:05 wilesd Quant Type: ISTD
Cal Date : 03-FEB-2006 14:16 Cal File: fickb035.d
Als bottle: 1 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: freon.sub
Target Version: 3.50

Concentration Formula: Amt * DF * (Vt*5)/(Ws*Va) * CpndVariable

Vt	5000.00000	Sample Volume Purged
Ws	5.00000	Weight of sample
Va	100.00000	Volume of Methanol Aliquot

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
* 1 Fluorobenzene	96	4.287	4.284	(1.000)	1089910	50.0000	
* 2 Chlorobenzene-d5	117	6.780	6.780	(1.000)	748318	50.0000	
* 3 1,4 Dichlorobenzene-d4	152	9.498	9.498	(1.000)	320653	50.0000	
133 #1,1-Difluoroethene	64	0.783	0.780	(0.183)	390217	500.000	467.15
134 #1,1,1-Trifluoroethane	69	0.783	0.780	(0.183)	1496316	250.000	255.13
135 #Chlorodifluoroethane	65	0.982	0.979	(0.229)	1802871	250.000	256.48
136 #Chlorohexafluorobutene	129	1.158	1.155	(0.270)	891316	250.000	237.65
137 #Chlorotrifluoroethane	118	1.165	1.162	(0.272)	1070637	250.000	236.70
138 #Pentafluorobutane	65	1.229	1.226	(0.287)	1800873	250.000	239.58
139 #DCDFE	132	1.360	1.354	(0.317)	595451	250.000	247.24
140 #Chlorohexafluorobutane	131	1.611	1.604	(0.376)	745822	250.000	242.17
141 #DCFEa (freon 141)	81	1.807	1.803	(0.421)	1223815	250.000	192.28
142 #DCTFEa (freon 123)	83	1.867	1.867	(0.436)	1388390	250.000	248.83
144 #1,2-DCDFEa	99	2.455	2.451	(0.573)	2330055	250.000	243.40
145 #1,1-DCDFEa	83	3.196	3.196	(0.746)	1315138	250.000	243.40
146 #TCDFEa	83	3.982	3.979	(0.929)	1799853	250.000	240.28
147 #1,1,1,2-TCDFEa	167	4.476	4.476	(1.044)	914041	250.000	235.99
148 #1,1,2,2-TCDFEa (freon 112)	101	4.528	4.524	(1.056)	1285942	250.000	241.26
149 #TCFEa	115	4.695	4.691	(1.095)	1622224	250.000	238.42

Data File: /var/chem/gcms/mk.i/K020306I.b/fickb035.d
Report Date: 03-Feb-2006 15:06

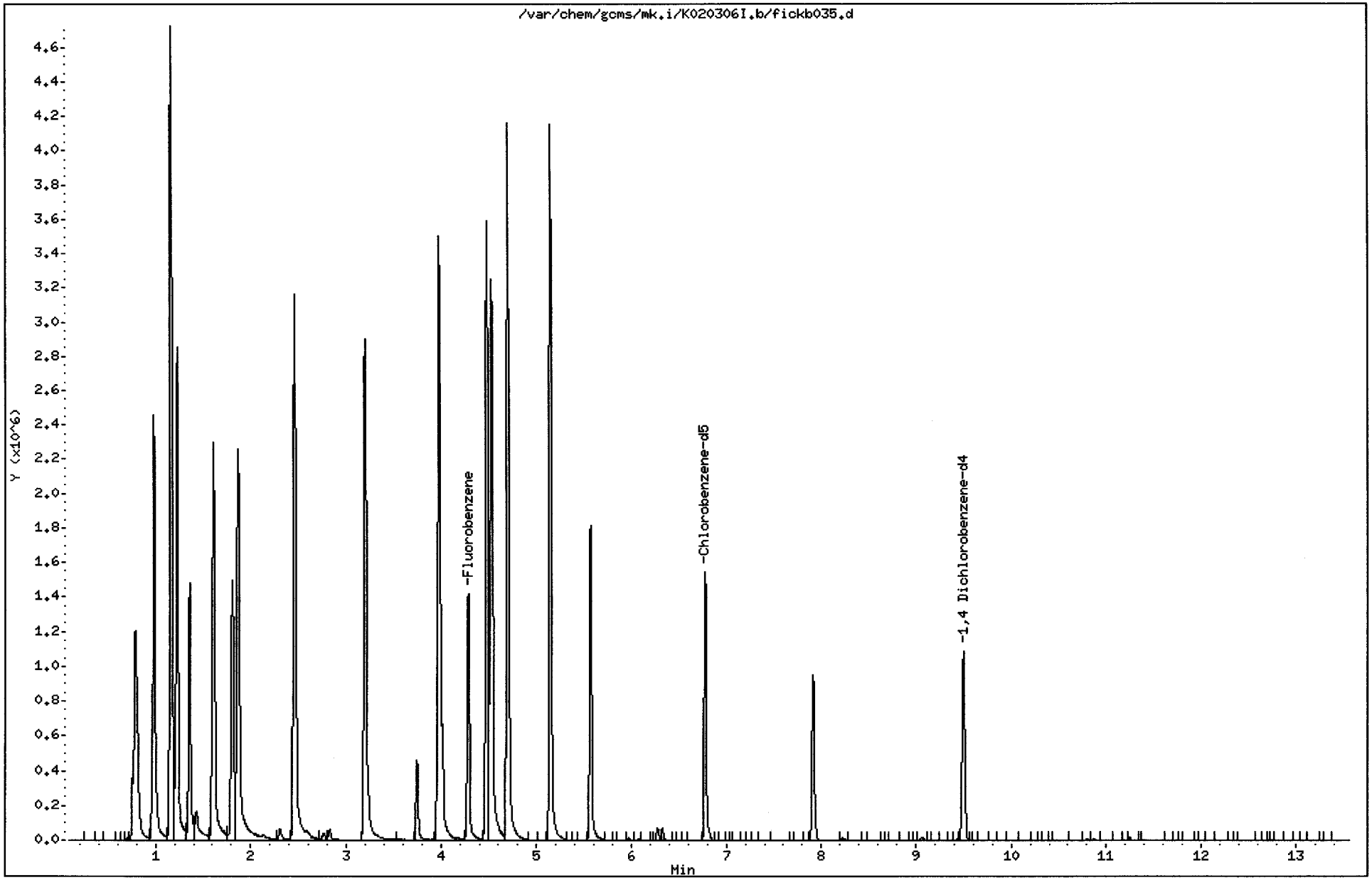
						AMOUNTS	
	QUANT SIG					CAL-AMT	ON-COL
Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/L)	(ug/L)
150 #Methoxyflurane	81	5.141	5.141	(1.199)	3634425	250.000	238.52

Data File: /var/chem/gcms/mk.i/K020306I.b/fickb035.d
Date : 03-FEB-2006 14:16
Client ID: VST250
Sample Info: FICKB035,1,1,5,,VST250

Instrument: mk.i

Operator: 60487
Column diameter: 0.18

Column phase: J&W-624



Data File: /var/chem/gcms/mk.i/K020306I.b/fickb038.d
Report Date: 03-Feb-2006 15:06

STL Knoxville

Volatile Organics by GC/MS

Data file : /var/chem/gcms/mk.i/K020306I.b/fickb038.d
Lab Smp Id: FICKB038 Client Smp ID: VST400
Inj Date : 03-FEB-2006 14:40
Operator : 60487 Inst ID: mk.i
Smp Info : FICKB038,1,1,8,,VST400
Misc Info : K020306I,MS8260NM,freon.sub
Comment : Volatile Organics by GC/MS
Method : /var/chem/gcms/mk.i/K020306I.b/MS8260NM.m
Meth Date : 03-Feb-2006 15:05 wilesd Quant Type: ISTD
Cal Date : 03-FEB-2006 14:40 Cal File: fickb038.d
Als bottle: 1 Calibration Sample, Level: 8
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: freon.sub
Target Version: 3.50

Concentration Formula: Amt * DF * (Vt*5)/(Ws*Va) * CpndVariable

Vt	5000.00000	Sample Volume Purged
Ws	5.00000	Weight of sample
Va	100.00000	Volume of Methanol Aliquot

Cpnd Variable Local Compound Variable

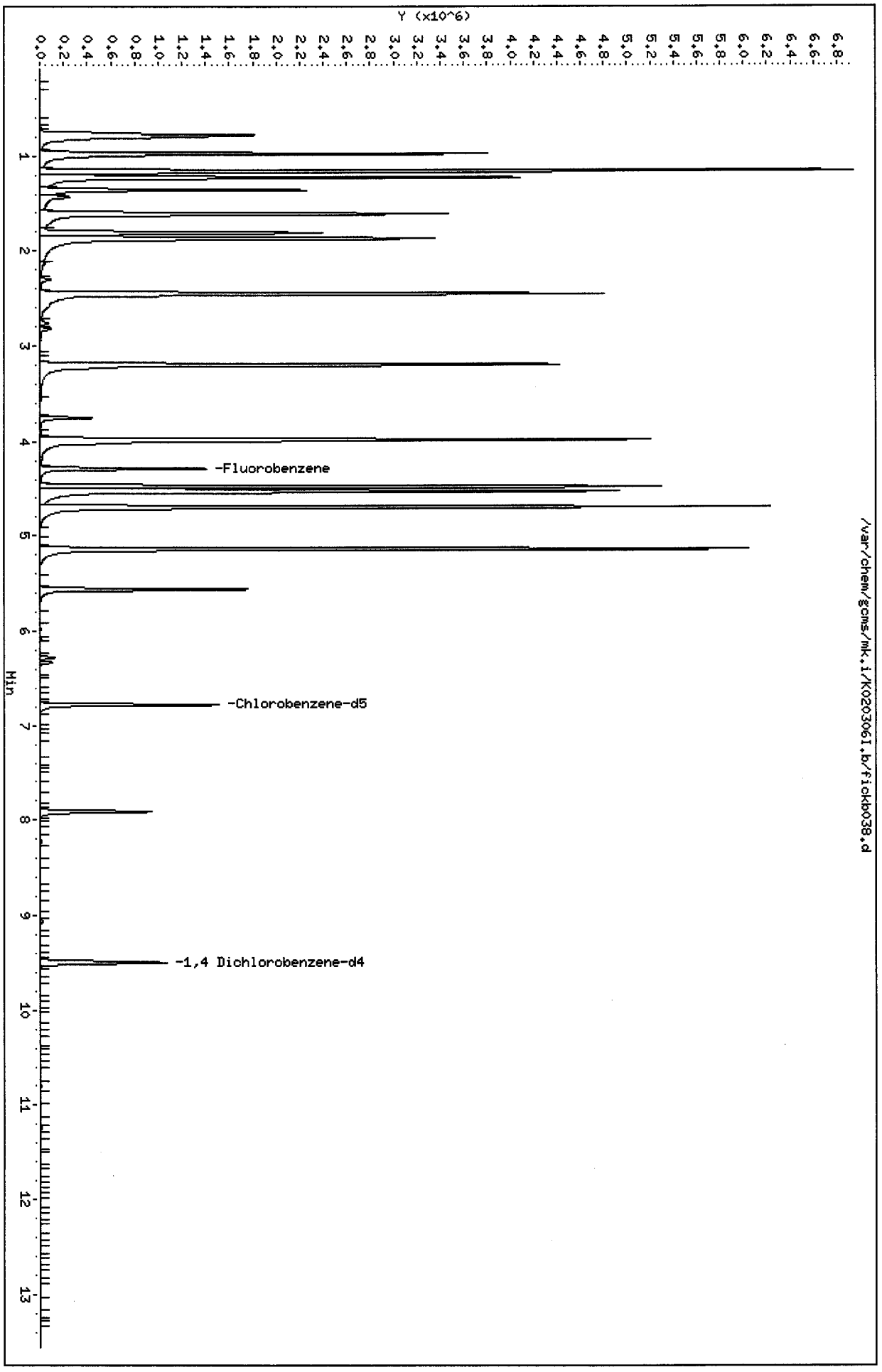
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
* 1 Fluorobenzene	96	4.287	4.284	(1.000)	1058236	50.0000	
* 2 Chlorobenzene-d5	117	6.780	6.780	(1.000)	741793	50.0000	
* 3 1,4 Dichlorobenzene-d4	152	9.498	9.498	(1.000)	322886	50.0000	
133 #1,1-Difluoroethene	64	0.783	0.780	(0.183)	615038 ✓	800.000	758.34
134 #1,1,1-Trifluoroethane	69	0.783	0.780	(0.183)	2318861	400.000	407.22(A)
135 #Chlorodifluoroethane	65	0.979	0.979	(0.228)	2884703	400.000	422.66(A)
136 #Chlorohexafluorobutene	129	1.155	1.155	(0.269)	1304417	400.000	358.21
137 #Chlorotrifluoroethane	118	1.161	1.162	(0.271)	1637846	400.000	372.94
138 #Pentafluorobutane	65	1.229	1.226	(0.287)	2783077	400.000	381.32
139 #DCDFE	132	1.357	1.354	(0.317)	923434	400.000	394.90
140 #Chlorohexafluorobutane	131	1.607	1.604	(0.375)	1155280	400.000	386.35
141 #DCFEa (freon 141)	81	1.806	1.803	(0.421)	1985490	400.000	321.30
142 #DCTFEa (freon 123)	83	1.867	1.867	(0.436)	2181506	400.000	402.67(A)
144 #1,2-DCDFEa	99	2.455	2.451	(0.573)	3630501	400.000	390.59
145 #1,1-DCDFEa	83	3.196	3.196	(0.745)	2018396	400.000	384.73
146 #TCDFEa	83	3.982	3.979	(0.929)	2736610	400.000	376.28
147 #1,1,1,2-TCDFEa	167	4.479	4.476	(1.045)	1372500	400.000	364.97
148 #1,1,2,2-TCDFEa (freon 112)	101	4.524	4.524	(1.055)	1938389	400.000	374.56
149 #TCFEa	115	4.694	4.691	(1.095)	2472086	400.000	374.20

Data File: /var/chem/gcms/mk.i/K020306I.b/fickb038.d
Report Date: 03-Feb-2006 15:06

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
150 #Methoxyflurane	81	5.144	5.141	(1.200)	5591682	400.000	377.96

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.


Data File: /var/chem/gcms/mk.i/K020306I.b/fickb038.d
Date : 03-FEB-2006 14:40
Client ID: VST400
Sample Info: FICKB038,1,1,8,,VST400
Column phase: J&W-624
Instrument: mk.i
Operator: 60487
Column diameter: 0.18
Y (x10^6)
Min
-Fluorobenzene
-Chlorobenzene-d5
-1,4 Dichlorobenzene-d4
/var/chem/gcms/mk.i/K020306I.b/fickb038.d

Data File: /var/chem/gcms/mk.i/K020306I.b/fcvkb03.d
Report Date: 06-Feb-2006 10:14

STL Knoxville

Volatile Organics by GC/MS

Data file : /var/chem/gcms/mk.i/K020306I.b/fcvkb03.d
Lab Smp Id: FCVKB03 Client Smp ID: .opc not found
Inj Date : 03-FEB-2006 15:03
Operator : 60487 Inst ID: mk.i
Smp Info : FCVKB03,1,3,,2ND SOURCE
Misc Info : K020306I,MS8260NM,freon.sub
Comment : Volatile Organics by GC/MS
Method : /var/chem/gcms/mk.i/K020306I.b/MS8260NM.m
Meth Date : 06-Feb-2006 10:11 wilesd Quant Type: ISTD
Cal Date : 03-FEB-2006 14:40 Cal File: fickb038.d
Als bottle: 1 QC Sample: 2ND SOURCE
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: freon.sub
Target Version: 3.50
Processing Host: qmidhp01

Concentration Formula: Amt * DF * Uf*Vt/(Vo*1000) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Unit Correction factor
Vt	5000.00000	Sample Volume Purged
Vo	5.00000	Sample Volume Used

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
* 1 Fluorobenzene	96	4.284	4.284	(1.000)	1059680	50.0000	
* 2 Chlorobenzene-d5	117	6.780	6.780	(1.000)	734814	50.0000	
* 3 1,4 Dichlorobenzene-d4	152	9.498	9.498	(1.000)	325828	50.0000	
133 #1,1-Difluoroethene	64	0.789	0.780	(0.184)	90696	111.676	111.68
134 #1,1,1-Trifluoroethane	69	0.783	0.780	(0.183)	317111	55.6123	55.612
135 #Chlorodifluoroethane	65	0.979	0.979	(0.228)	398574	58.3189	58.319
136 #Chlorohexafluorobutene	129	1.155	1.155	(0.270)	196873	53.9903	53.990
137 #Chlorotrifluoroethane	118	1.162	1.162	(0.271)	241548	54.9265	54.926
138 #Pentafluorobutane	65	1.226	1.226	(0.286)	390753	53.4660	53.466
139 #DCDFE	132	1.357	1.354	(0.317)	125916	53.7738	53.774
140 #Chlorohexafluorobutane	131	1.608	1.604	(0.375)	153404	51.2318	51.232
141 #DCFEa (freon 141)	81	1.803	1.803	(0.421)	365722	62.6660	62.666
142 #DCTFEa (freon 123)	83	1.864	1.867	(0.435)	287991	53.0866	53.087
144 #1,2-DCDFEa	99	2.452	2.451	(0.572)	511624	54.9686	54.968

Data File: /var/chem/gcms/mk.i/K020306I.b/fcvkb03.d
Report Date: 06-Feb-2006 10:14

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
145 #1,1-DCDFEa	83	3.196	3.196	(0.746)	276101	52.5566	52.557
146 #TCDFEa	83	3.979	3.979	(0.929)	394325	54.1446	54.145
147 #1,1,1,2-TCDFEa	167	4.476	4.476	(1.045)	199399	52.9506	52.951
148 #1,1,2,2-TCDFEa (freon 112)	101	4.524	4.524	(1.056)	270146	52.1295	52.129
149 #TCFEa	115	4.695	4.691	(1.096)	352582	53.2984	53.298
150 #Methoxyflurane	81	5.141	5.141	(1.200)	804476	54.3025	54.302

Data File: /chem/gcms/mk.i/K020306I.b/fcvkb03.d
Report Date: 03-Feb-2006 15:17

STL Knoxville

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: mk.i
Lab File ID: fcvkb03.d
Lab Smp Id: FCVKB03
Analysis Type: VOA
Quant Type: ISTD
Operator: 60487
Calibration Date: 03-FEB-2006
Calibration Time: 13:29
Client Smp ID: .opc not found
Level: MED
Sample Type: SOIL
Method File: /var/chem/gcms/mk.i/K020306I.b/MS8260NM.m
Misc Info: K020306I,MS8260NM,freon.sub

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	1089746	544873	2179492	1059680	-2.76
2 Chlorobenzene-d5	748856	374428	1497712	734814	-1.88
3 1,4 Dichlorobenze	324637	162318	649274	325828	0.37

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	4.28	3.78	4.78	4.28	0.00
2 Chlorobenzene-d5	6.78	6.28	7.28	6.78	0.00
3 1,4 Dichlorobenze	9.50	9.00	10.00	9.50	0.00

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

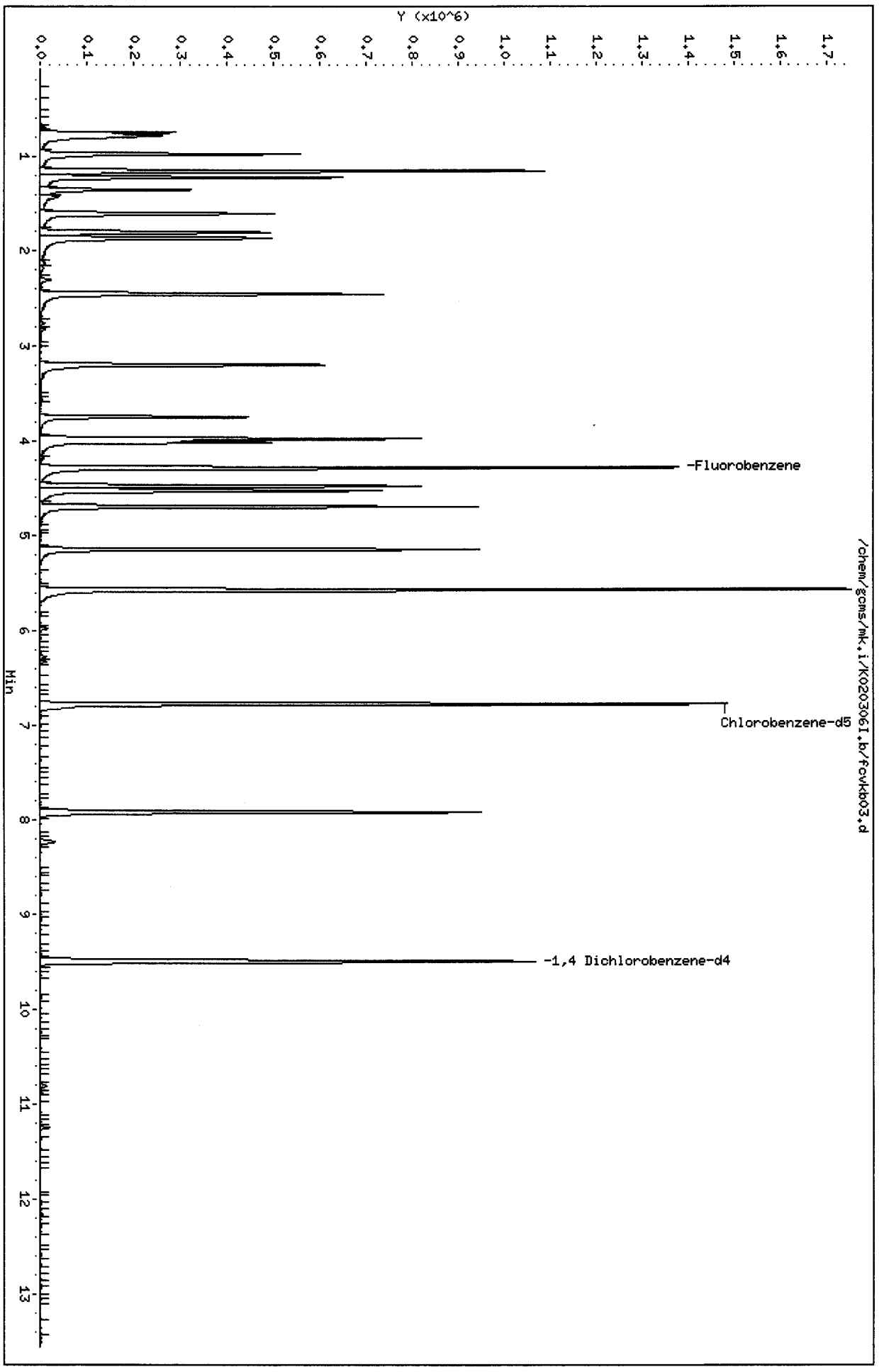
Data File: /var/chem/gcms/mk.i/K020306I.b/fcvkb03.d
Report Date: 06-Feb-2006 10:14

STL Knoxville

RECOVERY REPORT

Client Name:
Client SDG: K020306I
Sample Matrix: LIQUID
Fraction: VOA
Lab Smp Id: FCVKB03
Client Smp ID: .opc not found
Level: LOW
Operator: 60487
Data Type: MS DATA
SampleType: 2ND SOURCE
SpikeList File: freon.spk
Quant Type: ISTD
Sublist File: freon.sub
Method File: /var/chem/gcms/mk.i/K020306I.b/MS8260NM.m
Misc Info: K020306I,MS8260NM,freon.sub

SPIKE	COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
133	#1,1-Difluoroethen	100.00	111.68	111.68	70-130
134	#1,1,1-Trifluoroet	50.000	55.612	111.22	70-130
135	#Chlorodifluoroeth	50.000	58.319	116.64	70-130
136	#Chlorohexafluorob	50.000	53.990	107.98	70-130
137	#Chlorotrifluoroet	50.000	54.926	109.85	70-130
138	#Pentafluorobutane	50.000	53.466	106.93	70-130
139	#DCDFE	50.000	53.774	107.55	70-130
140	#Chlorohexafluorob	50.000	51.232	102.46	70-130
141	#DCFEa (freon 141)	50.000	62.666	125.33	70-130
142	#DCTFEa (freon 123	50.000	53.087	106.17	70-130
144	#1,2-DCDFEa	50.000	54.968	109.94	70-130
145	#1,1-DCDFEa	50.000	52.557	105.11	70-130
146	#TCDFEa	50.000	54.145	108.29	70-130
147	#1,1,1,2-TCDFEa	50.000	52.951	105.90	70-130
148	#1,1,2,2-TCDFEa (f	50.000	52.129	104.26	70-130
149	#TCFEa	50.000	53.298	106.60	70-130
150	#Methoxyflurane	50.000	54.302	108.61	70-130


Data File: /chem/gcms/mk.i/K020306I.b/fcvkb03.d
Date : 03-FEB-2006 15:03
Client ID: .opc not found
Sample Info: FCVKB03,1,3,,2ND SOURCE
Column phase: J&W-624
Instrument: mk.i
Operator: 60487
Column diameter: 0.18
Y (x10^6)
Min
-Fluorobenzene
Chlorobenzene-d5
-1,4 Dichlorobenzene-d4
/chem/gcms/mk.i/K020306I.b/fcvkb03.d

STL Volatile GC/MS Continuing Calibration Review / Narrative Checklist
Method: 8260B - KNOX-MS-0015, Rev. 8

Analysis Date:	4/4/06	CCAL Batch/ Scan Name:	K040406	Instrument:	MK	ICAL Batch/ Scan Name:	K060306I	Scanned □

Review Items	N/A	Yes	No	If No, why is data reportable?	2nd √
1. Did BFB meet tune criteria?		✓			✓
2. Were all standards injected within 12 hr of BFB?		✓			✓
3. Was date/time of analysis verified between analysis header and logbook as correct?		✓			✓
4. Was the primary ion used for all compounds?		✓		□*Secondary ion used due to interferences for:*_____	✓
5. Do the RFs for SPCCs meet minimum RF?		✓			✓
6. Is the %D or drift ≤20% for all CCCs?		✓			✓
7. Is the %D or drift ≤ 50% for all other compounds? [Up to 6 TCLs may have %D or drift > 50%; any more and the calibration is INVALID].		✓		□ %D or drift > 50% for the following TCLs: _____ Iodomethane - 51%, 2,2-dichloropropane - 70%	✓
8. Are the internal standard responses within limits? 8260B: 50-200% of the mid-level ICAL standard		✓			✓
9. Are the internal standard retention times within limits? 8260B: 30 seconds of the mid-level ICAL standard		✓			✓
10. If manual integrations were performed, are they clearly identified, initialed, dated and reason given?	✓			Reasons: 1)Corrected split peak; 2)Unresolved peak; 3)tailing; 4)RT shift; 5)wrong peak selected; 6)other	NA
11. Have alternate hits/manual integrations been verified as correct and are correct RFs listed in CCAL summary?	✓				NA
12. Was the correct ICAL used for quantitation? (Verify date & time of ICAL is documented correctly on CCAL)		✓			✓
13. Is the first IS documented correctly on the log?		✓			✓
14. Elution order checked on isomeric pairs/coeluters?		✓			✓
• hexane and vinyl acetate		✓			✓
• cis- and trans- isomers		✓			✓
• trichlorofluoromethane and Freon 113		✓			✓
• ethyl benzene / m/p-xylene / o-xylene		✓			✓
• n-propylbenzene / 2-chlorotoluene / 4-chlorotoluene		✓			✓
• 1,3,5-trimethylbenzene / 1,2,4-trimethylbenzene / sec-butylbenzene		✓			✓
• 1,3- , 1,4- , and 1,2-dichlorobenzene		✓			✓
• 1,2,4 and 1,2,3 -trichlorobenzene		✓			✓
• chlorobenzene-d5 and 1,1,1,2-tetrachloroethane		✓			✓
15. If criteria were not met, was a NCM generated, approved by supervisor, and copy included in folder?	✓				NA
16. Does the CCAL folder contain **complete** data in the following order? Data review checklist, tune pass/fail page, m/z list, tune chromatogram, Target CCAL summary, Quan report, chromatogram and manual integrations.		✓			✓

Analyst: MT	**Date:** 4/4/06	**2nd Level Reviewer :**	**Date:** 4/5/06
Comments:		**Comments:**	

STL Knoxville GC/MS Volatiles Run Log - Instrument MK

Target Batch	K040406	XXXXXXXXX	XXXXXXXXX	Loop #	—	2
QuantIMS Batch	6089438	6089319	—	Standard ID	—	VOA-C6496
Method	8260B	XXXXXXXXX	XXXXXXXXX	Matrix	—	Waste
SOP#	KNOXMS005	XXXXXXXXX	XXXXXXXXX	IS Amt	—	4.27mL
Intitial Cal Batch	K020506I	XXXXXXXXX	XXXXXXXXX	SS Amt	—	—
CCAL IS Areas	1075684	737847	307012	Heated?		(Y) N

☑ Date/Time Verified Preventive Maintenance Performed ☑ NA or ☐ _____

Lot	Lab File ID	Time	ALS #	Loop #	Solatek Dilution Factor	MS Dilution Factor	Volume/ Weight Purged	pH	Init	Standards ID/Spike ID/ and/or Comments
Tune	BFBK004	1720	—	—	—	1	wt 4/4/06 5mL	NA	WT	Int VOA C6493
CCV	CCVK0043	1737	1	2	1		~~25mL~~ 5mL			5mL VOA C6493 + 25mL VOA C6496
LCS	H2KWV1AC	1801	2				100mL/5mL			
BLK	BLK	1824	3							
↓	H2KWV1AA	1848	4			↓	↓			
D030205	H2HN31AA	1911	5			5	20mL/5mL			
↓	H2HQR	1935	6			↓ WT 4/4/06				
↓	H2HQ4	2024	78			↓	↓			
C250105	H1075	2001	87			2	50mL/5mL			3mL 4/4/06
MS	H2HN3 1AC	2048	9			5	20mL/5mL			
MSD	H2HN3 1AD	2112	10	↓	↓	↓	↓	↓	↓	

WT 4/5/06

Analyst/Date: WT 4/5/06 / _____

Data File: /var/chem/gcms/mk.i/K040406.b/bfbkd04.d

Date : 04-APR-2006 17:20

Client ID:

Instrument: mk.i

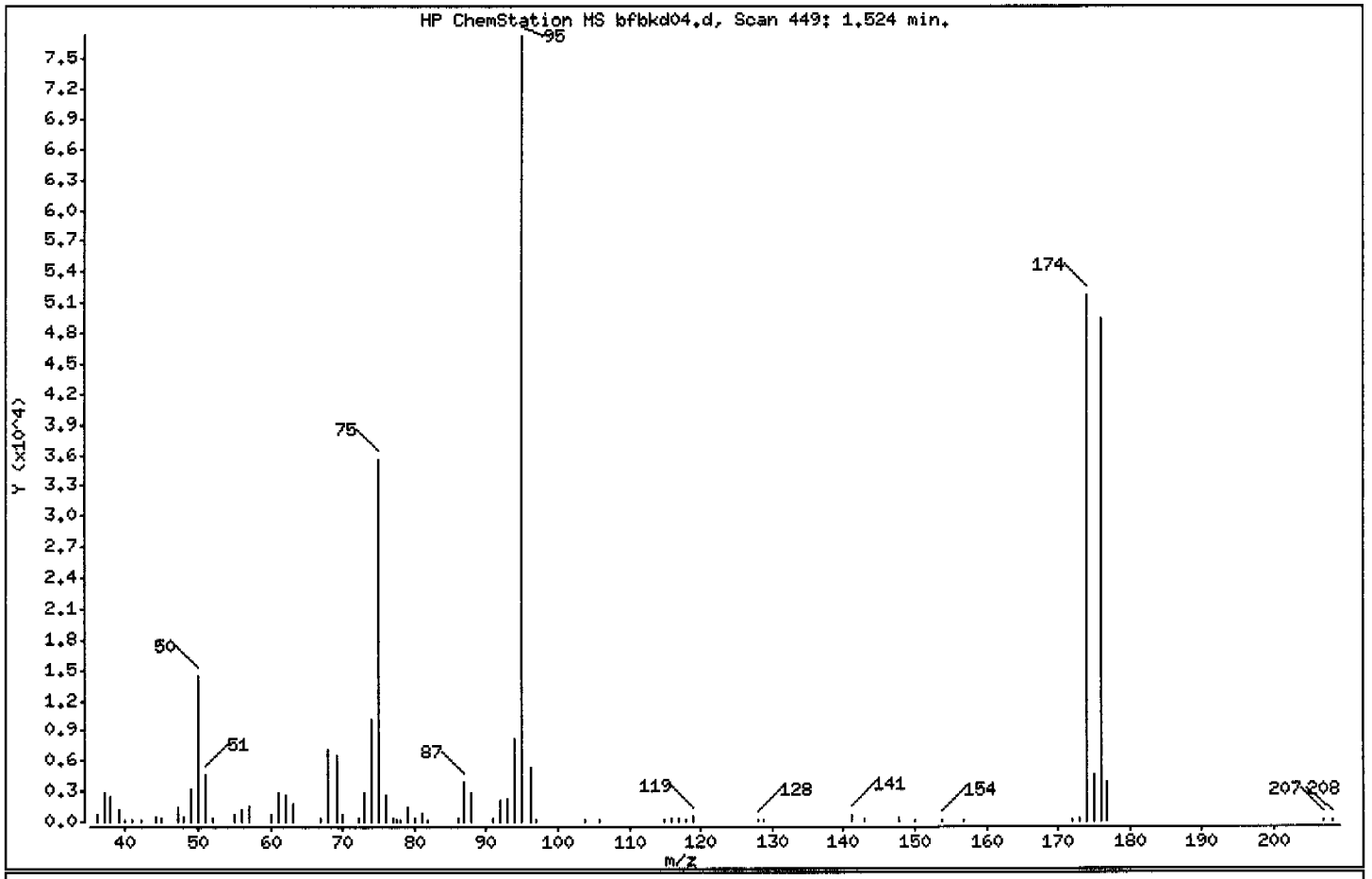
Sample Info: BFBKD04,1,3,TUNE

Operator: 063605

Column phase: J & W 624

Column diameter: 0.18

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	18.57
75	30.00 - 60.00% of mass 95	46.05
96	5.00 - 9.00% of mass 95	6.90
173	Less than 2.00% of mass 174	0.51 (0.76)
174	50.00 - 120.00% of mass 95	66.88
175	5.00 - 9.00% of mass 174	5.89 (8.80)
176	95.00 - 101.00% of mass 174	63.94 (95.61)
177	5.00 - 9.00% of mass 176	5.12 (8.01)

Data File: /var/chem/gcms/mk.i/K040406.b/bfbkd04.d

Date : 04-APR-2006 17:20

Client ID:

Instrument: mk.i

Sample Info: BFBKD04,1,3,TUNE

Operator: 063605

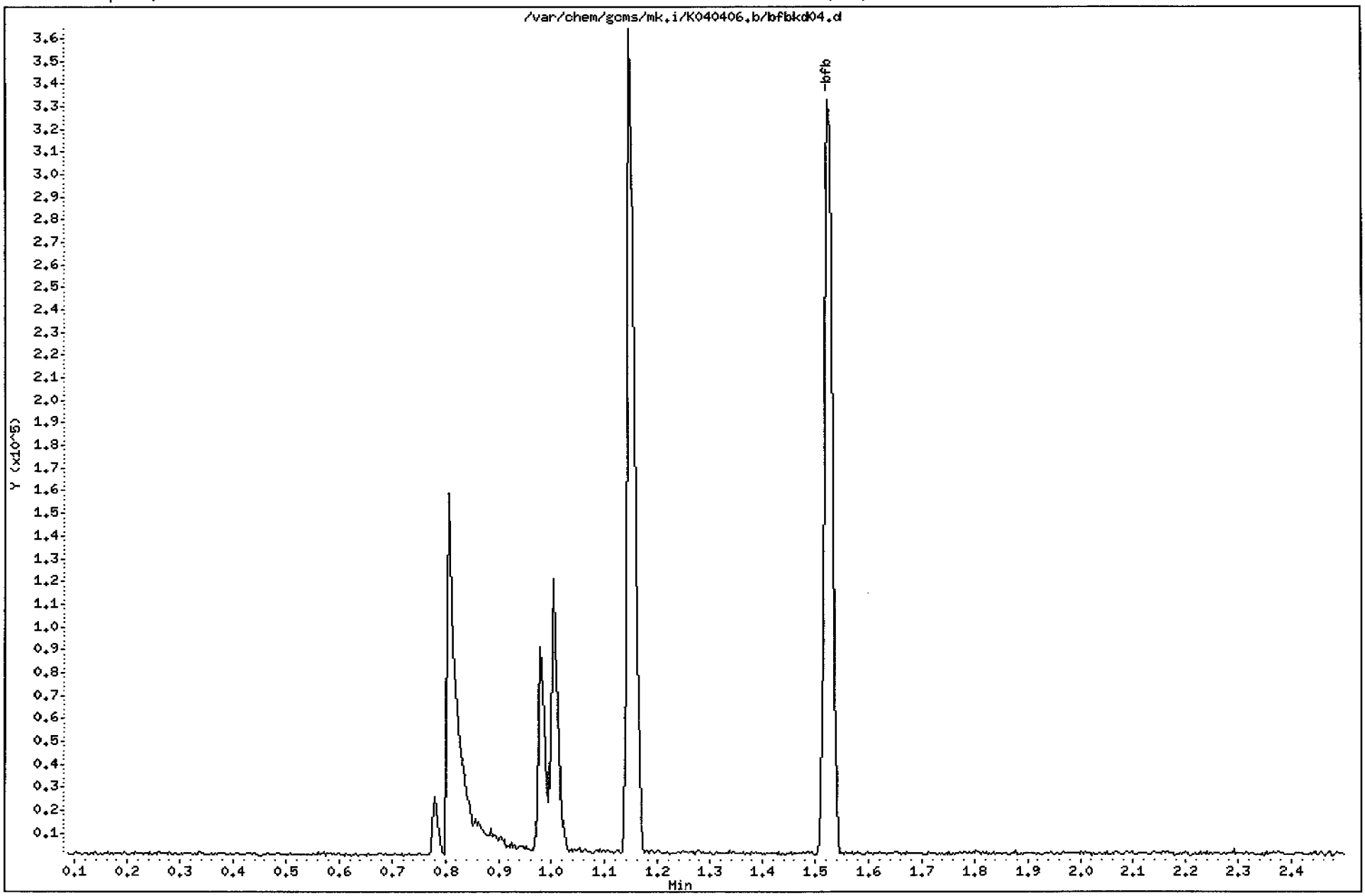
Column phase: J & W 624

Column diameter: 0.18

Data File: bfbkd04.d
Spectrum: HP ChemStation MS bfbkd04.d, Scan 449: 1.524 min.
Location of Maximum: 95.00
Number of points: 71

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.10	627	60.10	781	81.00	941	118.90	493
37.10	2796	61.10	2824	81.90	255	128.00	251
38.00	2462	62.10	2635	86.20	370	128.80	198
39.10	1204	63.10	1853	86.90	3870	141.10	654
40.00	266	66.90	342	87.90	2849	143.00	423
41.00	231	68.00	7043	90.90	310	147.70	286
42.10	227	69.10	6586	92.00	2175	150.00	187
44.10	586	70.00	689	93.00	2364	153.90	213
45.00	381	72.10	267	94.00	8157	156.90	191
47.10	1399	73.00	2870	95.00	77336	172.10	165
48.00	594	74.10	10093	96.10	5338	172.90	392
49.00	3185	75.00	35616	97.00	199	173.90	51720
50.10	14360	76.10	2671	103.90	207	174.90	4553
51.00	4692	77.10	313	105.90	161	175.90	49448
52.00	272	77.60	183	115.00	154	176.90	3960
55.00	788	78.10	244	116.00	310	206.80	158
56.00	1262	79.00	1500	116.80	352	208.10	178
57.10	1522	80.10	414	118.00	235		

Data File: /var/chem/gcms/mk.i/K040406.b/bfbkd04.d
Date : 04-APR-2006 17:20
Client ID:
Instrument: mk.i
Sample Info: BFBKD04,1,3,TUNE
Operator: 063605
Column phase: J & W 624
Column diameter: 0.18



Data File: /chem/gcms/mk.i/K040406.b/ccvkd043.d
Report Date: 04-Apr-2006 17:52

STL Knoxville

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: mk.i
Lab File ID: ccvkd043.d
Analysis Type: SOIL
Lab Sample ID: CCVKD043
Method: /var/chem/gcms/mk.i/K040406.b/MS8260NM.m

Injection Date: 04-APR-2006 17:37
Init. Cal. Date(s): 12-OCT-2005 03-FEB-2006
Init. Cal. Times: 13:58 14:40
Quant Type: ISTD

			CCAL	MIN		MAX	
COMPOUND	RRF / AMOUNT	RF50	RRF50	RRF	%D / %DRIFT	%D / %DRIFT	CURVE TYPE
$ 4 1,2-Dichloroethane-d4	0.24094	0.20403	0.20403	0.000	15.32114	50.00000	Averaged
$ 5 Dibromofluoromethane	0.22219	0.18660	0.18660	0.000	16.01727	50.00000	Averaged
$ 6 Toluene-d8	1.33071	1.10167	1.10167	0.000	17.21207	50.00000	Averaged
$ 7 4-Bromofluorobenzene	1.21046	1.05501	1.05501	0.000	12.84263	50.00000	Averaged
M 8 1,2-Dichloroethene (total)	0.23791	0.22072	0.22072	0.000	7.22571	50.00000	Averaged
M 9 Xylene (total)	0.60345	0.58702	0.58702	0.000	2.72230	50.00000	Averaged
10 Dichlorodifluoromethane	0.23891	0.24814	0.24814	0.000	-3.86580	50.00000	Averaged
11 Chloromethane (spcc)	50.46619	50.00000	0.29984	0.100	-0.93237	50.00000	Linear
12 Vinyl Chloride (ccc)	0.22983	0.23614	0.23614	0.000	-2.74663	19.00000	Averaged
14 Bromomethane	0.05519	0.04644	0.04644	0.000	15.85917	50.00000	Averaged
15 Chloroethane	53.02704	50.00000	0.09244	0.000	-6.05408	50.00000	Linear
17 Trichlorofluoromethane	72.51114	50.00000	0.26490	0.000	-45.02227	50.00000	Linear
19 1,1-Dichloroethene (ccc)	0.18658	0.18529	0.18529	0.000	0.69086	19.00000	Averaged
20 *Freon 113	0.14662	0.14482	0.14482	0.000	1.22746	50.00000	Averaged
21 Acetone	0.05304	0.06103	0.06103	0.000	-15.06636	50.00000	Averaged
22 *Iodomethane	0.22041	0.10900	0.10900	0.000	50.54951	50.00000	Averaged <-
23 Carbon Disulfide	0.74394	0.73429	0.73429	0.000	1.29796	50.00000	Averaged
26 Methylene Chloride	0.23768	0.23035	0.23035	0.000	3.08372	50.00000	Averaged
27 *Acrylonitrile	0.06662	0.07114	0.07114	0.000	-6.78436	50.00000	Averaged
29 trans-1,2-Dichloroethene	0.22203	0.21161	0.21161	0.000	4.69300	50.00000	Averaged
32 1,1-Dichloroethane (spcc)	0.43690	0.37050	0.37050	0.100	15.19779	50.00000	Averaged
33 *Vinyl Acetate	0.04012	0.03951	0.03951	0.000	1.52550	50.00000	Averaged
34 2,2-Dichloropropane	0.32051	0.09615	0.09615	0.000	70.00027	50.00000	Averaged <-
35 cis 1,2-Dichloroethene	0.25379	0.22983	0.22983	0.000	9.44043	50.00000	Averaged
36 2-Butanone	0.08571	0.08483	0.08483	0.000	1.02397	50.00000	Averaged
38 Bromochloromethane	0.09379	0.07764	0.07764	0.000	17.21555	50.00000	Averaged
39 *THF	0.05804	0.05685	0.05685	0.000	2.04500	50.00000	Averaged
40 Chloroform (ccc)	0.40539	0.37624	0.37624	0.000	7.19044	19.00000	Averaged
41 1,1,1-Trichloroethane	0.35008	0.30762	0.30762	0.000	12.12715	50.00000	Averaged
42 Carbon Tetrachloride	0.27224	0.24090	0.24090	0.000	11.51109	50.00000	Averaged
43 1,1-Dichloropropene	0.33095	0.29955	0.29955	0.000	9.48715	50.00000	Averaged
44 Benzene	0.97197	0.90996	0.90996	0.000	6.38009	50.00000	Averaged
45 1,2-Dichloroethane	0.28492	0.27426	0.27426	0.000	3.74106	50.00000	Averaged
46 Trichloroethene	0.23345	0.21544	0.21544	0.000	7.71614	50.00000	Averaged
47 1,2-Dichloropropane (ccc)	0.24343	0.22459	0.22459	0.000	7.74001	19.00000	Averaged

Data File: /chem/gcms/mk.i/K040406.b/ccvkd043.d
Report Date: 04-Apr-2006 17:52

STL Knoxville

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: mk.i
Lab File ID: ccvkd043.d
Analysis Type: SOIL
Lab Sample ID: CCVKD043
Method: /var/chem/gcms/mk.i/K040406.b/MS8260NM.m

Injection Date: 04-APR-2006 17:37
Init. Cal. Date(s): 12-OCT-2005 03-FEB-2006
Init. Cal. Times: 13:58 14:40
Quant Type: ISTD

COMPOUND	RRF / AMOUNT	RF50	CCAL RRF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
48 Dibromomethane	0.12133	0.10664	0.10664	0.000	12.11146	50.00000	Averaged
50 Bromodichloromethane	0.29740	0.27038	0.27038	0.000	9.08483	50.00000	Averaged
52 cis-1,3-Dichloropropene	0.37775	0.33735	0.33735	0.000	10.69414	50.00000	Averaged
53 4-Methyl-2-pentanone	0.27214	0.27927	0.27927	0.000	-2.62125	50.00000	Averaged
54 Toluene (ccc)	1.48482	1.40822	1.40822	0.000	5.15858	19.00000	Averaged
55 trans-1,3-Dichloropropene	0.45770	0.41557	0.41557	0.000	9.20617	50.00000	Averaged
57 1,1,2-Trichloroethane	0.26968	0.24532	0.24532	0.000	9.03228	50.00000	Averaged
58 Tetrachloroethene	0.25088	0.23988	0.23988	0.000	4.38719	50.00000	Averaged
59 1,3-Dichloropropane	0.46502	0.43846	0.43846	0.000	5.71191	50.00000	Averaged
60 2-Hexanone	0.19546	0.19630	0.19630	0.000	-0.42979	50.00000	Averaged
61 Chlorodibromomethane	0.28591	0.25692	0.25692	0.000	10.14047	50.00000	Averaged
62 1,2-Dibromoethane	0.26220	0.22434	0.22434	0.000	14.43747	50.00000	Averaged
63 Chlorobenzene (spcc)	0.89905	0.87806	0.87806	0.300	2.33465	50.00000	Averaged
64 1,1,1,2-Tetrachloroethane	0.30521	0.27747	0.27747	0.000	9.08968	50.00000	Averaged
65 Ethylbenzene (ccc)	0.49850	0.49910	0.49910	0.000	-0.11998	19.00000	Averaged
66 m&p-Xylene	93.14021	100	0.59310	0.000	6.85979	50.00000	Quadratic
67 o-Xylene	54.31874	50.00000	0.57486	0.000	-8.63749	50.00000	Wt Linear
68 Styrene	0.98012	0.92864	0.92864	0.000	5.25267	50.00000	Averaged
69 Bromoform (spcc)	0.15536	0.14095	0.14095	0.100	9.27682	50.00000	Averaged
70 Isopropylbenzene	1.54500	1.51549	1.51549	0.000	1.90963	50.00000	Averaged
72 Bromobenzene	0.76074	0.71694	0.71694	0.000	5.75780	50.00000	Averaged
73 1,1,2,2-Tetrachloroethane(s	0.73071	0.70681	0.70681	0.300	3.26956	50.00000	Averaged
74 1,2,3-Trichloropropane	0.23455	0.21720	0.21720	0.000	7.39680	50.00000	Averaged
76 n-Propylbenzene	4.33338	4.42632	4.42632	0.000	-2.14474	50.00000	Averaged
77 2-Chlorotoluene	2.60835	2.59346	2.59346	0.000	0.57087	50.00000	Averaged
78 1,3,5-Trimethylbenzene	50.65402	50.00000	2.99404	0.000	-1.30804	50.00000	Quadratic
79 4-Chlorotoluene	2.96391	2.95259	2.95259	0.000	0.38223	50.00000	Averaged
80 tert-Butylbenzene	2.59564	2.53874	2.53874	0.000	2.19216	50.00000	Averaged
81 1,2,4-Trimethylbenzene	3.07013	3.04069	3.04069	0.000	0.95874	50.00000	Averaged
82 sec-Butylbenzene	3.69056	3.75410	3.75410	0.000	-1.72178	50.00000	Averaged
83 1,3-Dichlorobenzene	1.46819	1.46962	1.46962	0.000	-0.09782	50.00000	Averaged
84 p-Isopropyltoluene	3.09799	3.17888	3.17888	0.000	-2.61104	50.00000	Averaged
85 1,4-Dichlorobenzene	1.44440	1.44494	1.44494	0.000	-0.03750	50.00000	Averaged
86 1,2-Dichlorobenzene	1.34750	1.32536	1.32536	0.000	1.64296	50.00000	Averaged
87 n-Butylbenzene	62.05250	50.00000	3.17214	0.000	-24.10500	50.00000	Wt Linear

Data File: /chem/gcms/mk.i/K040406.b/ccvkd043.d
Report Date: 04-Apr-2006 17:52

STL Knoxville

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: mk.i
Lab File ID: ccvkd043.d
Analysis Type: SOIL
Lab Sample ID: CCVKD043
Method: /var/chem/gcms/mk.i/K040406.b/MS8260NM.m

Injection Date: 04-APR-2006 17:37
Init. Cal. Date(s): 12-OCT-2005 03-FEB-2006
Init. Cal. Times: 13:58 14:40
Quant Type: ISTD

COMPOUND	RRF / AMOUNT	RF50	CCAL RRF50	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
88 1,2-Dibromo-3-chloropropane	0.12838	0.11433	0.11433	0.000	10.94847	50.00000	Averaged
89 1,2,4-Trichlorobenzene	51.94683	50.00000	1.01925	0.000	-3.89365	50.00000	Quadratic
90 Hexachlorobutadiene	51.21138	50.00000	0.48528	0.000	-2.42275	50.00000	Quadratic
91 Napthalene	2.48458	2.38875	2.38875	0.000	3.85710	50.00000	Averaged
92 1,2,3-Trichlorobenzene	54.70105	50.00000	0.91724	0.000	-9.40210	50.00000	Wt Linear

Data File: /chem/gcms/mk.i/K040406.b/ccvkd043.d
Report Date: 04-Apr-2006 17:52

STL Knoxville

Volatile Organics by GC/MS

Data file : /chem/gcms/mk.i/K040406.b/ccvkd043.d
Lab Smp Id: CCVKD043 Client Smp ID: VST50
Inj Date : 04-APR-2006 17:37
Operator : 063605 Inst ID: mk.i
Smp Info : CCVKD043,1,2,3,,VST50
Misc Info : K040406,MS8260NM,focus.sub
Comment : Volatile Organics by GC/MS
Method : /var/chem/gcms/mk.i/K040406.b/MS8260NM.m
Meth Date : 04-Apr-2006 17:52 chemist Quant Type: ISTD
Cal Date : 03-FEB-2006 14:40 Cal File: fickb038.d
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: focus.sub
Target Version: 3.50
Processing Host: qmidhp01

Concentration Formula: Amt * DF * (Vt*5)/(Ws*Va) * CpndVariable

Vt	5000.00000	Sample Volume Purged
Ws	5.00000	Weight of sample
Va	100.00000	Volume of Methanol Aliquot

Cpnd Variable Local Compound Variable

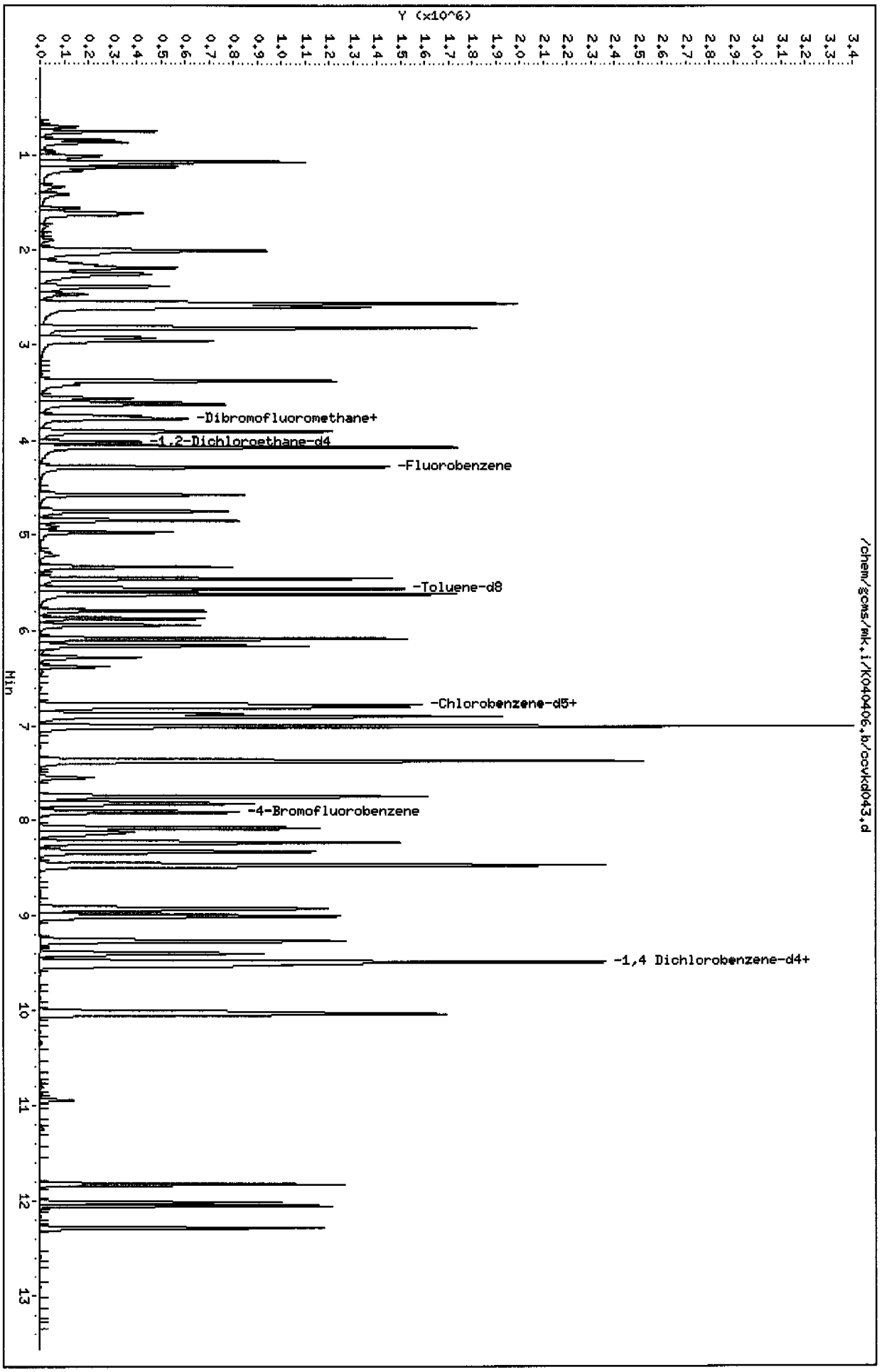
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
*	1 Fluorobenzene	96	4.284	4.284	(1.000)	1075684	50.0000	
*	2 Chlorobenzene-d5	117	6.780	6.780	(1.000)	737847	50.0000	
*	3 1,4 Dichlorobenzene-d4	152	9.498	9.498	(1.000)	307012	50.0000	
$	4 1,2-Dichloroethane-d4	65	4.017	4.017	(0.938)	219468	50.0000	42.339
$	5 Dibromofluoromethane	113	3.751	3.751	(0.876)	200727	50.0000	41.991
$	6 Toluene-d8	98	5.564	5.564	(0.821)	812862	50.0000	41.394
$	7 4-Bromofluorobenzene	95	7.913	7.913	(0.833)	323899	50.0000	43.579
M	8 1,2-Dichloroethene (total)	96				474851	100.000	92.933
M	9 Xylene (total)	106				1299397	150.000	147.46
	10 Dichlorodifluoromethane	85	0.869	0.869	(0.203)	266925	50.0000	51.933
	11 Chloromethane (spcc)	50	1.011	1.011	(0.236)	322532	50.0000	50.466
	12 Vinyl Chloride (ccc)	62	1.097	1.097	(0.256)	254010	50.0000	51.373
	14 Bromomethane	94	1.338	1.338	(0.312)	49951	50.0000	42.070
	15 Chloroethane	64	1.415	1.415	(0.330)	99436	50.0000	53.027
	17 Trichlorofluoromethane	101	1.607	1.607	(0.375)	284947	50.0000	72.511
	19 1,1-Dichloroethene (ccc)	96	2.005	2.005	(0.468)	199311	50.0000	49.654
	20 *Freon 113	151	2.005	2.005	(0.468)	155779	50.0000	49.386
	21 Acetone	43	2.041	2.041	(0.476)	262587	200.000	230.13

Data File: /chem/gcms/mk.i/K040406.b/ccvkd043.d
Report Date: 04-Apr-2006 17:52

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
22 *Iodomethane	142	2.131	2.131	(0.497)	117245	50.0000	24.725
23 Carbon Disulfide	76	2.188	2.188	(0.511)	789862	50.0000	49.351
26 Methylene Chloride	84	2.384	2.384	(0.557)	247782	50.0000	48.458
27 *Acrylonitrile	53	2.567	2.567	(0.599)	1530583	1000.00	1067.8
29 trans-1,2-Dichloroethene	96	2.602	2.602	(0.607)	227622	50.0000	47.654
32 1,1-Dichloroethane (spcc)	63	2.926	2.926	(0.683)	398541	50.0000	42.401
33 *Vinyl Acetate	86	2.962	2.962	(0.691)	85005	100.000	98.474
34 2,2-Dichloropropane	77	3.382	3.382	(0.790)	103429	50.0000	15.000
35 cis 1,2-Dichloroethene	96	3.379	3.379	(0.789)	247228	50.0000	45.280
36 2-Butanone	43	3.382	3.382	(0.790)	365017	200.000	197.95
38 Bromochloromethane	128	3.568	3.568	(0.833)	83517	50.0000	41.392
39 *THF	42	3.610	3.610	(0.843)	244608	200.000	195.91
40 Chloroform (ccc)	83	3.629	3.629	(0.847)	404720	50.0000	46.405
41 1,1,1-Trichloroethane	97	3.780	3.780	(0.882)	330904	50.0000	43.936
42 Carbon Tetrachloride	117	3.918	3.918	(0.915)	259135	50.0000	44.244
43 1,1-Dichloropropene	75	3.911	3.911	(0.913)	322222	50.0000	45.256
44 Benzene	78	4.069	4.069	(0.950)	978829	50.0000	46.810
45 1,2-Dichloroethane	62	4.075	4.075	(0.951)	295022	50.0000	48.129
46 Trichloroethene	130	4.579	4.579	(1.069)	231744	50.0000	46.142
47 1,2-Dichloropropane (ccc)	63	4.749	4.749	(1.109)	241583	50.0000	46.130
48 Dibromomethane	93	4.845	4.845	(1.131)	114710	50.0000	43.944
50 Bromodichloromethane	83	4.970	4.970	(1.160)	290842	50.0000	45.458
52 cis-1,3-Dichloropropene	75	5.336	5.336	(1.246)	362881	50.0000	44.653
53 4-Methyl-2-pentanone	43	5.458	5.458	(0.805)	824244	200.000	205.24
54 Toluene (ccc)	91	5.615	5.615	(0.828)	1039054	50.0000	47.421
55 trans-1,3-Dichloropropene	75	5.792	5.792	(0.854)	306624	50.0000	45.397
57 1,1,2-Trichloroethane	97	5.946	5.946	(0.877)	181007	50.0000	45.484
58 Tetrachloroethene	164	6.081	6.081	(0.897)	176993	50.0000	47.806
59 1,3-Dichloropropane	76	6.084	6.084	(0.897)	323518	50.0000	47.144
60 2-Hexanone	43	6.155	6.155	(0.908)	579347	200.000	200.86
61 Chlorodibromomethane	129	6.276	6.276	(0.926)	189566	50.0000	44.930
62 1,2-Dibromoethane	107	6.376	6.376	(0.940)	165530	50.0000	42.781
63 Chlorobenzene (spcc)	112	6.803	6.803	(1.003)	647871	50.0000	48.833
64 1,1,1,2-Tetrachloroethane	131	6.873	6.873	(1.014)	204727	50.0000	45.455
65 Ethylbenzene (ccc)	106	6.902	6.902	(1.018)	368258	50.0000	50.060
66 m&p-Xylene	106	7.005	7.005	(1.033)	875235	100.000	93.140
67 o-Xylene	106	7.367	7.367	(1.087)	424161	50.0000	54.319
68 Styrene	104	7.380	7.380	(1.089)	685192	50.0000	47.374
69 Bromoform (spcc)	173	7.554	7.554	(1.114)	103996	50.0000	45.362
70 Isopropylbenzene	105	7.749	7.749	(1.143)	1118202	50.0000	49.045
72 Bromobenzene	156	8.083	8.083	(0.851)	220108	50.0000	47.121
73 1,1,2,2-Tetrachloroethane(sp)	83	8.080	8.080	(0.851)	217000	50.0000	48.365
74 1,2,3-Trichloropropane	110	8.128	8.128	(0.856)	66683	50.0000	46.302
76 n-Propylbenzene	91	8.231	8.231	(0.867)	1358932	50.0000	51.072
77 2-Chlorotoluene	91	8.330	8.330	(0.877)	796223	50.0000	49.714
78 1,3,5-Trimethylbenzene	105	8.468	8.468	(0.892)	919205	50.0000	50.654
79 4-Chlorotoluene	91	8.471	8.471	(0.892)	906479	50.0000	49.809

Data File: /chem/gcms/mk.i/K040406.b/ccvkd043.d
Report Date: 04-Apr-2006 17:52

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
80 tert-Butylbenzene	119	8.930	8.930	(0.940)	779424	50.0000	48.904
81 1,2,4-Trimethylbenzene	105	9.004	9.004	(0.948)	933529	50.0000	49.521
82 sec-Butylbenzene	105	9.270	9.270	(0.976)	1152553	50.0000	50.861
83 1,3-Dichlorobenzene	146	9.405	9.405	(0.990)	451192	50.0000	50.049
84 p-Isopropyltoluene	119	9.492	9.492	(0.999)	975955	50.0000	51.306
85 1,4-Dichlorobenzene	146	9.530	9.530	(1.003)	443614	50.0000	50.019
86 1,2-Dichlorobenzene	146	10.018	10.018	(1.055)	406901	50.0000	49.178
87 n-Butylbenzene	91	10.044	10.044	(1.057)	973885	50.0000	62.052
88 1,2-Dibromo-3-chloropropane	157	10.945	10.945	(1.152)	35099	50.0000	44.526
89 1,2,4-Trichlorobenzene	180	11.825	11.825	(1.245)	312923	50.0000	51.947
90 Hexachlorobutadiene	225	12.014	12.014	(1.265)	148985	50.0000	51.211
91 Napthalene	128	12.053	12.053	(1.269)	733373	50.0000	48.071
92 1,2,3-Trichlorobenzene	180	12.287	12.287	(1.294)	281602	50.0000	54.701


Data File: /chem/gcms/mk.i/K040406.b/ccvkd043.d
Date : 04-APR-2006 17:37
Client ID: VST50
Sample Info: CCVKD043,1,2,3,,VST50
Column phase: J&W-624
Instrument: mk.i
Operator: 063605
Column diameter: 0.18
Y (x10^6)
Min
/chem/gcms/mk.i/K040406.b/ccvkd043.d
-Dibromofluoromethane+
-1,2-Dichloroethane-d4
-Fluorobenzene
-Toluene-d8
-Chlorobenzene-d5+
-4-Bromofluorobenzene
-1,4 Dichlorobenzene-d4+

STL Volatile GC/MS Initial Calibration Data Review / Narrative Checklist
Method: 8260B – KNOX-MS-0015, Rev. 8

Analysis Date:	3/24/06	Instrument:	MZ	ICAL Batch/Scan Name:	Z032406I	Scanned □

Review Items	N/A	Yes	No	If No, why is data reportable?	2nd √
1. Did BFB meet tune criteria?		✓			✓
2. Were all standards injected within 12 hr of BFB?		✓			✓
3. Was date/time of analysis verified between analysis header and logbook as correct?		✓			✓
4. Were ≥ 5 levels of each compound/surrogate analyzed?		✓			✓
5. Was low level standard at or below RL?		✓			✓
6. Was the primary ion used for all compounds?		✓		□ *Secondary ion used due to interferences for:* _____	✓
7. Do the average RFs for SPCCs meet minimum RF?		✓			✓
8. Are %RSD <30% for CCCs?		✓			✓
9. Was a linear fit or quadratic fit used for analytes >15% RSD?		✓			✓
10. If curves were used, is correlation coefficient ≥0.990?		✓			✓
11. At least 6 consecutive points used for quadratic curves?		✓			✓
12. For quadratic: is a tangent's slope to the curve entirely positive or negative and continuous?		✓			✓
13. Is the "Y" intercept less than the RL for each curve?		✓			✓
14. Were all peaks identified automatically? *If not, list analytes*:		✓			✓
15. If manual integrations were performed, are they clearly identified, initialed, dated and reason given?	X	✓		Reasons: 1)Corrected split peak; 2)Unresolved peak; 3)tailing; 4)RT shift; 5)wrong peak selected; 6)other	✓
16. Are the ICAL start and end dates/times correct on ICAL summary?	MT 3/28/06	✓			✓
17. Elution order checked on isomeric pairs?		✓			✓
• hexane and vinyl acetate		✓			✓
• cis- and trans- isomers		✓			✓
• trichlorofluoromethane and Freon 113		✓			✓
• ethyl benzene / m/p-xylene / o-xylene		✓			✓
• n-propylbenzene / 2-chlorotoluene / 4-chlorotoluene		✓			✓
• 1,3,5-trimethylbenzene / 1,2,4-trimethylbenzene / sec-butylbenzene		✓			✓
• 1,3- , 1,4- , and 1,2-dichlorobenzene		✓			✓
• 1,2,4 and 1,2,3 -trichlorobenzene		✓			✓
• chlorobenzene-d5 and 1,1,1,2-tetrachloroethane		✓			✓
18. If criteria were not met, was a NCM generated, approved by supervisor, and copy included in folder?	✓				NA
19. Does the ICAL folder contain **complete** data in the following order? Data review checklist, tune pass/fail page, m/z list, tune chromatogram, ICAL summary, & curves, followed by Quan reports, chromatograms & manual integrations, in order from low to high standard.		✓			✓
20. Was the 2nd source calibration verification standard within 70-130% and are results in ICAL folder? (25% DOD)		✓			✓

Analyst: Acetone	Date: 3/28/06	2nd Level Reviewer : MT	Date: 3/28/06
Comments: Max Ketone 160 ppb MT 3/28/06 Bromoform Max 40 ppb		Comments:	

MS030R20.doc, 1/26/06

STL Knoxville GC/MS Volatiles Run Log - Instrument MZ

Target Batch	Z032406I	XXXXXXXXX	XXXXXXXXX	Loop #	—	3
QuantIMS Batch	6083471	—	—	Standard ID	—	VOA 6488
Method	8260B	XXXXXXXXX	XXXXXXXXX	Matrix	—	water
SOP#	KnoxMS0015	XXXXXXXXX	XXXXXXXXX	IS Amt/ID	—	4.7 mL
Intitial Cal Batch	Z032406I	XXXXXXXXX	XXXXXXXXX	SS Amt/ID	—	↓
CCAL IS Areas	1140841	197405	234469	Heated?	Y	(N)

☑ Date/Time Verified Preventive Maintenance Performed ☐ NA or ☑ cleaned source - see maint. log

Lot	Lab File ID	Time	ALS #	Loop #	Solatek Dilution Factor	MS Dilution Factor	Volume/ Weight Purged	pH	Init	Standards ID/Spike ID/ and/or Comments	Total volume
Tune	BFBZC24	1331	—	—	—	1	—	NA	MT	1ml VOA C6486	
ICAL 0.20	ICVZC248	1351	1	—	1		25mL			VOA C6486 VOA C6487 VOA C6485 3ml 100ml 1ml	500mL
.32	7	1414	2	—						4.8ml 100ml 1.6ml	↓
01	1	~~1501~~ 1438	3	—						2ml 20ml 1ml	100mL
02	2	~~1524~~ 1501	4	—						4ml 20ml 2ml	↓
10	3	~~1548~~ 1524	5	3						— — 5ml	50mL
20	4	~~1611~~ 1548	6							10ml — 10ml	
40	5	1611	7							30ml — 20ml	
80	6	1634	8							— — 40ml	↓
BLK	BLK1	1657	9								
2nd Source	H10CE1AC	1721	10							10ml VOA C6489 → 50mL	
↓	H10CE1AD	1744	11							↓	
BLK	BLK	1808	12								
↓	H10CE1AA	1831	13								
C080102	H0R97IAA	Down	14								
↓	40R98IAA	↓	15		↓	↓				MT 3/28/06	
C230178	H1TFC1AA		16		50	10					
C220169	H1PIC1AA	↓	17		50	10				Foamer	

3/28/06

Analyst/Date: [signature] 3/28/06

STL Knoxville GC/MS Volatiles Run Log - Instrument MZ

Target Batch	2032806	XXXXXXXXX	XXXXXXXXX	Loop #	3	
QuantIMS Batch				Standard ID	VOA6486	
Method	8260D	XXXXXXXXX	XXXXXXXXX	Matrix	25mL	
SOP#	KNOX-MS-0015	XXXXXXXXX	XXXXXXXXX	IS Amt/ID	47/mL	
Intitial Cal Batch	2032406	XXXXXXXXX	XXXXXXXXX	SS Amt/ID	↓	
CCAL IS Areas	1026731	161231	22795	Heated?	Y	(N)

☑ Date/Time Verified Preventive Maintenance Performed ☒ NA or ☐ _____

Lot	Lab File ID	Time	ALS #	Loop #	Solatek Dilution Factor	MS Dilution Factor	Volume/ Weight Purged	pH	Init	Standards ID/Spike ID/ and/or Comments
Tune	BFB32C_28	1218	—	—	1	1	1.0mL	NA	[illegible]	1.0mL VOA6486
CCV	CCV2C283	1243	1	3	↓	↓	25mL	↓	↓	5.0mL VOA6485→50mL
LCS	LCS0328	1306	2	↓	↓	↓	↓	↓	↓	20mL VOA6485→50mL
LCS	LCSACT	1329	3	↓	↓	↓	↓	↓	↓	2.0mL ~~VOA6V174~~ →5[illegible]

3/28/06

Analyst/Date: _____ /3/28/06

Data File: /chem/gcms/mz.i/Z032406I.b/bfbzc24.d

Date : 24-MAR-2006 13:31

Client ID:

Instrument: mz.i

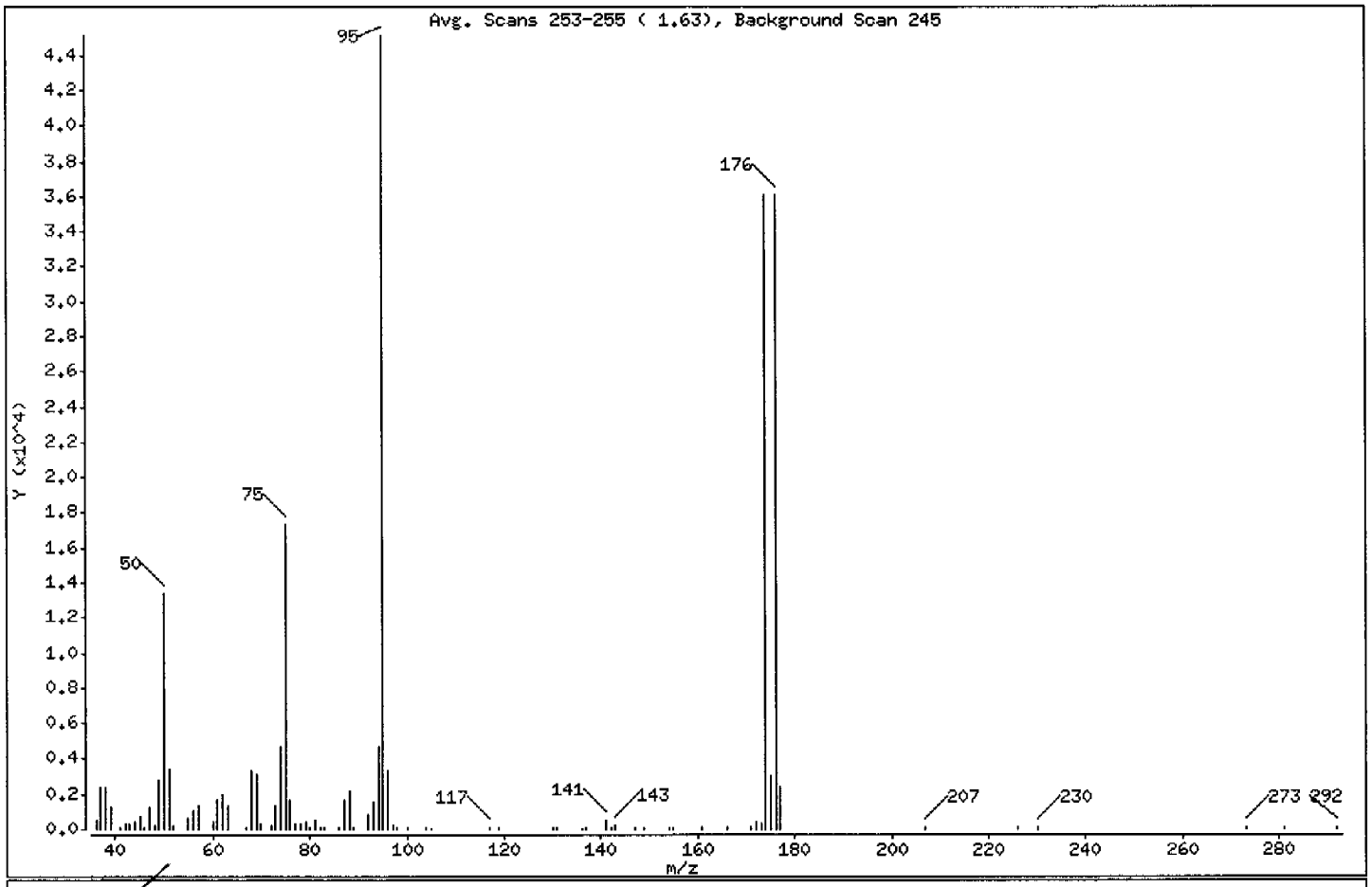
Sample Info: BFBZC24,1,3,,BFB

Operator: 22980

Column phase: J & W 624

Column diameter: 0.18

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	29.57
75	30.00 - 60.00% of mass 95	38.36
96	5.00 - 9.00% of mass 95	7.28
173	Less than 2.00% of mass 174	0.63 (0.78)
174	50.00 - 120.00% of mass 95	80.00
175	5.00 - 9.00% of mass 174	6.62 (8.27)
176	95.00 - 101.00% of mass 174	80.04 (100.04)
177	5.00 - 9.00% of mass 176	5.18 (6.47)

Data File: /chem/gcms/mz.i/Z032406I.b/bfbzc24.d

Date : 24-MAR-2006 13:31

Client ID:

Instrument: mz.i

Sample Info: BFBZC24,1,3,,BFB

Operator: 22980

Column phase: J & W 624

Column diameter: 0.18

Data File: bfbzc24.d

Spectrum: Avg. Scans 253-255 (1.63), Background Scan 245

Location of Maximum: 95.00

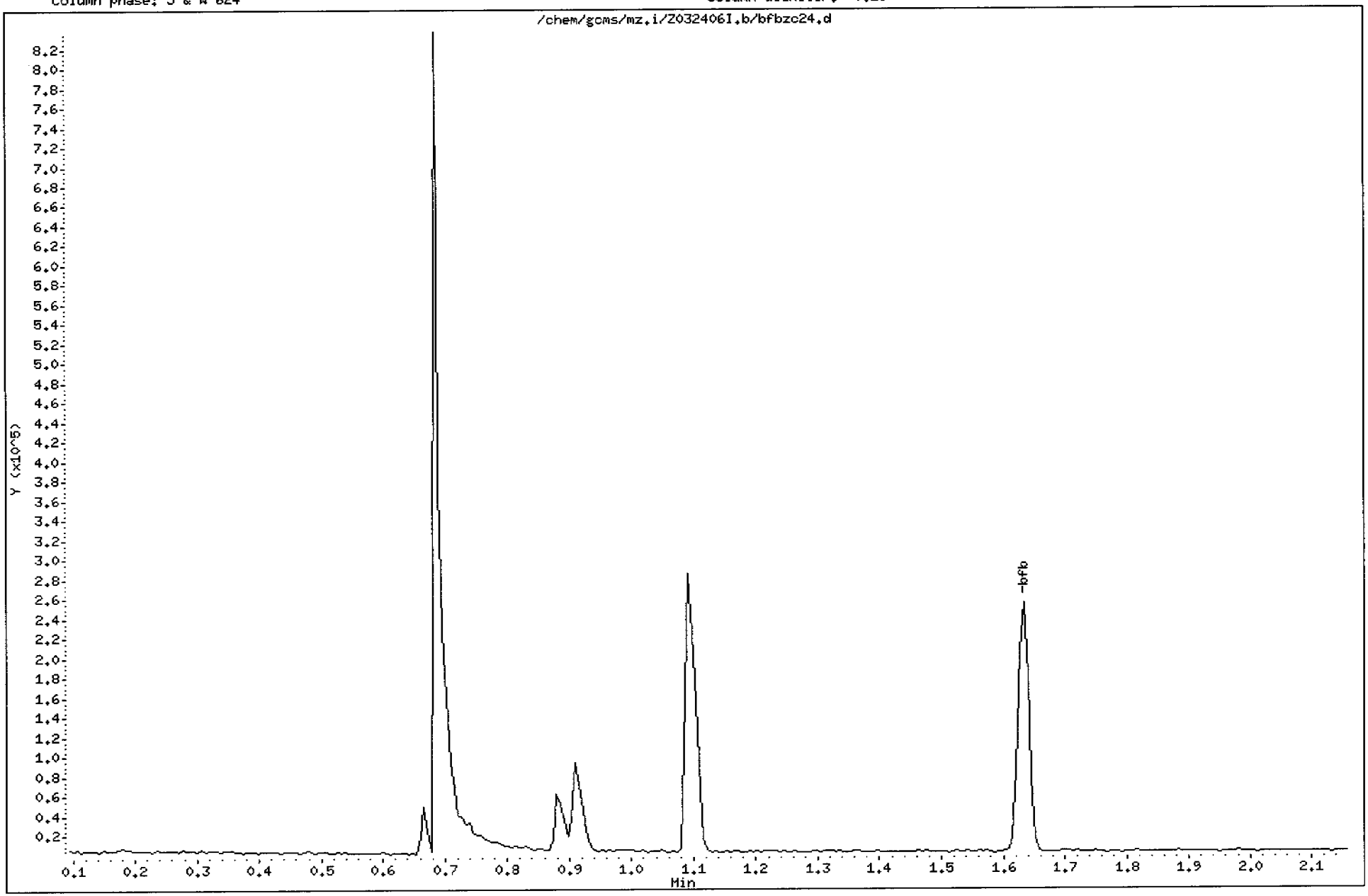
Number of points: 81

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	535	62.00	1985	89.00	110	149.00	58
37.00	2417	63.00	1302	92.00	874	154.00	71
38.00	2337	67.00	134	93.00	1563	155.00	58
39.00	1284	68.00	3345	94.00	4691	161.00	74
41.00	119	69.00	3111	95.00	45120	166.00	59
42.00	349	70.00	292	96.00	3285	171.00	126
43.00	284	72.00	177	97.00	166	172.00	437
44.00	381	73.00	1316	98.00	140	173.00	283
45.00	777	74.00	4681	100.00	52	174.00	36096
46.00	89	75.00	17304	104.00	56	175.00	2986
47.00	1269	76.00	1652	105.00	51	176.00	36112
48.00	205	77.00	262	117.00	145	177.00	2338
49.00	2830	78.00	264	119.00	82	207.00	84
50.00	13344	79.00	428	130.00	152	226.00	54
51.00	3436	80.00	75	131.00	128	230.00	63
52.00	163	81.00	565	136.00	51	273.00	123
55.00	626	82.00	55	137.00	65	281.00	56
56.00	999	83.00	55	141.00	508	292.00	89
57.00	1336	86.00	55	142.00	68		
60.00	430	87.00	1634	143.00	209		
61.00	1658	88.00	2211	147.00	63		

Data File: /chem/gcms/mz.i/Z032406I.b/bfbzc24.d
Date : 24-MAR-2006 13:31
Client ID:
Sample Info: BFBZC24,1,3,,BFB

Instrument: mz.i
Operator: 22980
Column diameter: 0.18

Column phase: J & W 624



Report Date : 28-Mar-2006 11:42

STL Knoxville

INITIAL CALIBRATION DATA

Start Cal Date : 24-MAR-2006 13:51
End Cal Date : 24-MAR-2006 16:34
Quant Method : ISTD
Target Version : 3.50
Integrator : HP RTE
Method file : /var/chem/gcms/mz.i/Z032406I.b/8260B_LM.m
Cal Date : 28-Mar-2006 11:39 gosss

Calibration File Names:
Level 1: /var/chem/gcms/mz.i/Z032406I.b/icvzc241.d
Level 2: /var/chem/gcms/mz.i/Z032406I.b/icvzc242.d
Level 3: /var/chem/gcms/mz.i/Z032406I.b/icvzc243.d
Level 4: /var/chem/gcms/mz.i/Z032406I.b/icvzc244.d
Level 5: /var/chem/gcms/mz.i/Z032406I.b/icvzc245.d
Level 6: /chem/gcms/mz.i/Z032406I.b/icvzc246.d
Level 7: /var/chem/gcms/mz.i/Z032406I.b/icvzc247.d
Level 8: /var/chem/gcms/mz.i/Z032406I.b/icvzc248.d

Compound	1 Level 1	2 Level 2	10 Level 3	20 Level 4	40 Level 5	80 Level 6	Curve	Coefficients b	 m1	 m2	%RSD or R^2
	0.3200 Level 7	0.2000 Level 8									
M 8 1,2-Dichloroethene (total)	0.26719	0.27383	0.26063	0.27180	0.26122	0.26347					
	+++++	+++++					AVRG		0.26636		2.08125
M 9 Xylene (total)	2.42065	2.51184	2.45172	2.49082	2.39759	+++++					
	+++++	+++++					AVRG		2.45452		1.93245
10 Dichlorodifluoromethane	0.22687	0.21890	0.24991	0.26263	0.25636	0.25729					
	0.23672	+++++					AVRG		0.24410		6.87041

Report Date : 28-Mar-2006 11:42

STL Knoxville

INITIAL CALIBRATION DATA

Start Cal Date : 24-MAR-2006 13:51
End Cal Date : 24-MAR-2006 16:34
Quant Method : ISTD
Target Version : 3.50
Integrator : HP RTE
Method file : /var/chem/gcms/mz.i/Z032406I.b/8260B_LM.m
Cal Date : 28-Mar-2006 11:39 gosss

Compound	1 Level 1	2 Level 2	10 Level 3	20 Level 4	40 Level 5	80 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	0.3200 Level 7	0.2000 Level 8									
11 Chloromethane (spcc)	106980	175396	767002	1410409	2424327	4768731					
	39346	+++++					WLINR	-0.05764	0.55962		0.99380
12 Vinyl Chloride (ccc)	0.40412	0.40077	0.39782	0.41616	0.40406	0.38776					
	0.34635	+++++					AVRG		0.39386		5.73845
13 *1,3-Butadiene	0.37494	0.38329	0.35114	0.38314	0.31783	0.32071					
	+++++	+++++					AVRG		0.35518		8.50491
15 Bromomethane	5472	10576	91856	213182	458442	963744					
	+++++	+++++					WLINR	0.08343	0.10668		0.99641
16 Chloroethane	0.19087	0.19609	0.18055	0.19083	0.18517	0.17548					
	+++++	+++++					AVRG		0.18650		4.07346
17 *Vinyl Bromide	0.16662	0.15653	0.16556	0.17758	0.17126	0.16214					
	+++++	+++++					AVRG		0.16661		4.36583
18 Trichlorofluoromethane	0.29982	0.30312	0.29760	0.33017	0.31746	0.28573					
	+++++	+++++					AVRG		0.30565		5.15771

Report Date : 28-Mar-2006 11:42

STL Knoxville

INITIAL CALIBRATION DATA

Start Cal Date : 24-MAR-2006 13:51
End Cal Date : 24-MAR-2006 16:34
Quant Method : ISTD
Target Version : 3.50
Integrator : HP RTE
Method file : /var/chem/gcms/mz.i/Z032406I.b/8260B_LM.m
Cal Date : 28-Mar-2006 11:39 gosss

Compound	1 Level 1 0.3200 Level 7	2 Level 2 0.2000 Level 8	10 Level 3	20 Level 4	40 Level 5	80 Level 6	Curve	Coefficients b	 m1	 m2	%RSD or R^2
19 *2-Chloropropane	0.63079 +++++	0.68632 +++++	0.65954	0.69284	0.67170	0.62804	AVRG		0.66154		4.15012
20 1,1-Dichloroethene (ccc)	0.22045 0.20428	0.21629 +++++	0.21814	0.23068	0.22418	0.20736	AVRG		0.21734		4.22541
21 *Freon 113	0.16848 +++++	0.17489 +++++	0.17230	0.17790	0.16631	0.15533	AVRG		0.16920		4.72125
22 Acetone	10079 3369	16702 +++++	96858	175036	241819	+++++	QUAD	0.32608	15.44204	239	0.99409
23 *Iodomethane	18279 +++++	36660 +++++	248702	547814	1119237	2352430	WLINR	0.05222	0.26044		0.99836
24 Carbon Disulfide	0.75701 0.77317	0.80451 +++++	0.75601	0.78871	0.74677	0.74411	AVRG		0.76719		2.94853
25 *2-propanol	+++++ +++++	+++++ +++++	+++++	+++++	+++++	+++++	AVRG		0.000e+00		0.000e+00

Report Date : 28-Mar-2006 11:42

STL Knoxville

INITIAL CALIBRATION DATA

Start Cal Date : 24-MAR-2006 13:51
End Cal Date : 24-MAR-2006 16:34
Quant Method : ISTD
Target Version : 3.50
Integrator : HP RTE
Method file : /var/chem/gcms/mz.i/Z032406I.b/8260B_LM.m
Cal Date : 28-Mar-2006 11:39 gosss

Compound	1 Level 1 0.3200 Level 7	2 Level 2 0.2000 Level 8	10 Level 3	20 Level 4	40 Level 5	80 Level 6	Curve	Coefficients b	 m1	 m2	%RSD or R^2
26 *Acetonitrile	0.00383	0.00422	0.00475	0.00462	0.00476	0.00456					
	+++++	+++++					AVRG		0.00445		8.14195
27 Methylene Chloride	0.16394	0.17002	0.17677	0.15917	0.16942	0.16415					
	+++++	+++++					AVRG		0.16724		3.67368
28 *t-butanol	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++					AVRG		0.000e+00		0.000e+00
29 *Acrylonitrile	0.03750	0.03812	0.03676	0.03790	0.03739	0.03639					
	+++++	+++++					AVRG		0.03734		1.76900
30 trans-1,2-Dichloroethene	0.27947	0.29373	0.26414	0.28080	0.26814	0.27329					
	0.26097	+++++					AVRG		0.27436		4.11876
31 *MTBE	0.23209	0.23996	0.24521	0.25092	0.25472	0.25218					
	0.20950	+++++					AVRG		0.24065		6.57365
32 *Hexane	0.67107	0.72649	0.70026	0.73176	0.71148	0.67662					
	+++++	+++++					AVRG		0.70295		3.58433

Report Date : 28-Mar-2006 11:42

STL Knoxville

INITIAL CALIBRATION DATA

Start Cal Date : 24-MAR-2006 13:51
End Cal Date : 24-MAR-2006 16:34
Quant Method : ISTD
Target Version : 3.50
Integrator : HP RTE
Method file : /var/chem/gcms/mz.i/Z032406I.b/8260B_LM.m
Cal Date : 28-Mar-2006 11:39 gosss

Compound	1 Level 1	2 Level 2	10 Level 3	20 Level 4	40 Level 5	80 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	0.3200 Level 7	0.2000 Level 8									
33 1,1-Dichloroethane (spcc)	0.64580	0.65450	0.63331	0.65214	0.64389	0.64745					
	0.56216	+++++					AVRG		0.63418		5.12138
34 *Vinyl Acetate	+++++	0.01047	0.01319	0.01361	0.01456	0.01484					
	+++++	+++++					AVRG		0.01333		13.02562
35 2,2-Dichloropropane	0.29772	0.30674	0.32676	0.36218	0.36096	0.35474					
	0.24637	+++++					AVRG		0.32221		13.14806
36 cis 1,2-Dichloroethene	0.25492	0.25393	0.25711	0.26279	0.25431	0.25365					
	0.23604	+++++					AVRG		0.25325		3.25015
37 2-Butanone	0.03893	0.03569	0.03616	0.03963	0.03873	0.03820					
	+++++	+++++					AVRG		0.03789		4.20824
38 Bromochloromethane	0.07896	0.06956	0.07458	0.07280	0.07190	0.06951					
	0.05015	+++++					AVRG		0.06964		13.19229
39 *THF	0.02459	0.02282	0.02311	0.02410	0.02397	0.02376					
	+++++	+++++					AVRG		0.02373		2.76137

Report Date : 28-Mar-2006 11:42

STL Knoxville

INITIAL CALIBRATION DATA

Start Cal Date : 24-MAR-2006 13:51
End Cal Date : 24-MAR-2006 16:34
Quant Method : ISTD
Target Version : 3.50
Integrator : HP RTE
Method file : /var/chem/gcms/mz.i/Z032406I.b/8260B_LM.m
Cal Date : 28-Mar-2006 11:39 gosss

Compound	1 Level 1	2 Level 2	10 Level 3	20 Level 4	40 Level 5	80 Level 6	Curve	Coefficients b	 m1	 m2	%RSD or R^2
	0.3200 Level 7	0.2000 Level 8									
40 Chloroform (ccc)	0.34499	0.37034	0.35947	0.37513	0.37388	0.37845					
	0.32695	+++++					AVRG		0.36132		5.26861
41 1,1,1-Trichloroethane	0.27979	0.29679	0.32080	0.35127	0.35435	0.36309					
	0.27250	+++++					AVRG		0.31980		11.71866
42 Carbon Tetrachloride	14271	29577	222376	551865	1165263	2475319					
	3974	+++++					WLINR	0.03395	0.26703		0.98928
43 1,1-Dichloropropene	0.34260	0.34843	0.34307	0.35671	0.34649	0.34286					
	0.31860	+++++					AVRG		0.34268		3.42082
44 Benzene	1.00101	1.01649	0.95672	0.97798	0.97028	0.96430					
	1.01631	+++++					AVRG		0.98616		2.52252
45 1,2-Dichloroethane	0.20895	0.22017	0.21136	0.21631	0.21642	0.21355					
	0.17502	+++++					AVRG		0.20883		7.35172
46 Trichloroethene	0.26634	0.29071	0.27954	0.29447	0.27971	0.27302					
	0.25803	+++++					AVRG		0.27740		4.64315

Report Date : 28-Mar-2006 11:42

STL Knoxville

INITIAL CALIBRATION DATA

Start Cal Date : 24-MAR-2006 13:51
End Cal Date : 24-MAR-2006 16:34
Quant Method : ISTD
Target Version : 3.50
Integrator : HP RTE
Method file : /var/chem/gcms/mz.i/Z032406I.b/8260B_LM.m
Cal Date : 28-Mar-2006 11:39 gosss

Compound	1 Level 1	2 Level 2	10 Level 3	20 Level 4	40 Level 5	80 Level 6	Curve	Coefficients b	 m1	 m2	%RSD or R^2
	0.3200 Level 7	0.2000 Level 8									
47 1,2-Dichloropropane (ccc)	0.26775	0.28155	0.27157	0.28031	0.27549	0.26686					
	0.24255	+++++					AVRG		0.26944		4.88266
48 *Methyl Methacrylate	0.07174	0.07835	0.08986	0.09573	0.09810	0.09657					
	+++++	+++++					AVRG		0.08839		12.34440
49 Dibromomethane	0.05539	0.05726	0.05891	0.06022	0.05681	0.05737					
	0.04681	+++++					AVRG		0.05611		7.80343
50 Bromodichloromethane	13084	28405	180001	389855	793046	1662952					
	3188	+++++					LINR	0.07341	0.18710		0.99972
51 *2-Chloroethylvinylether	0.05925	0.06288	0.06006	0.06238	0.06226	0.06008					
	+++++	+++++					AVRG		0.06115		2.49960
52 cis-1,3-Dichloropropene	0.20364	0.20643	0.21727	0.23648	0.23777	0.23313					
	0.19674	+++++					AVRG		0.21878		7.80488
53 4-Methyl-2-pentanone	0.08512	0.08785	0.08561	0.09099	0.08897	0.08543					
	+++++	+++++					AVRG		0.08733		2.69996

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Start Cal Date : 24-MAR-2006 13:51
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Quant Method : ISTD
Target Version : 3.50
Integrator : HP RTE
Method file : /var/chem/gcms/mz.i/Z032406I.b/8260B_LM.m
Cal Date : 28-Mar-2006 11:39 gosss

Compound	1 Level 1	2 Level 2	10 Level 3	20 Level 4	40 Level 5	80 Level 6	Curve	Coefficients b	 m1	 m2	%RSD or R^2
	0.3200 Level 7	0.2000 Level 8									
54 Toluene (ccc)	5.66178	5.84420	5.76650	5.83844	5.68813	5.68699					
	5.35131	+++++					AVRG		5.69105		2.93303
55 trans-1,3-Dichloropropene	13777	25501	160005	345095	671229	1388723					
	3165	+++++					LINR	0.06253	0.90961		0.99945
56 *Ethyl Methacrylate	0.37164	0.42381	0.51299	0.54476	0.52652	0.53732					
	+++++	+++++					AVRG		0.48617		14.66109
57 1,1,2-Trichloroethane	0.47248	0.44836	0.48103	0.49239	0.46614	0.47033					
	0.40264	+++++					AVRG		0.46191		6.36837
58 Tetrachloroethene	1.19633	1.20170	1.19342	1.19831	1.12973	1.11641					
	1.22706	+++++					AVRG		1.18042		3.46481
59 1,3-Dichloropropane	0.78738	0.81217	0.82168	0.82470	0.79535	0.81074					
	0.81547	+++++					AVRG		0.80964		1.68234
60 2-Hexanone	0.28315	0.29721	0.32006	0.33176	0.31017	0.31437					
	+++++	+++++					AVRG		0.30945		5.55311

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Start Cal Date : 24-MAR-2006 13:51
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Quant Method : ISTD
Target Version : 3.50
Integrator : HP RTE
Method file : /var/chem/gcms/mz.i/Z032406I.b/8260B_LM.m
Cal Date : 28-Mar-2006 11:39 gosss

Compound	1 Level 1 0.3200 Level 7	2 Level 2 0.2000 Level 8	10 Level 3	20 Level 4	40 Level 5	80 Level 6	Curve	Coefficients b	 m1	 m2	%RSD or R^2
61 Chlorodibromomethane	4945	10189	77270	186739	396499	826913					
	+++++	+++++					WLINR	0.07711	0.52660		0.99460
62 1,2-Dibromoethane	0.40448	0.43067	0.42100	0.43143	0.42338	0.42591					
	0.35862	+++++					AVRG		0.41364		6.25609
63 Chlorobenzene (spcc)	3.20201	3.29503	3.24735	3.31002	3.18083	3.14486					
	2.85479	+++++					AVRG		3.17641		4.84434
64 1,1,1,2-Tetrachloroethane	7918	17364	132522	309111	635577	1296966					
	2102	+++++					WLINR	0.03228	0.82671		0.99363
65 Ethylbenzene (ccc)	2.08636	2.11892	2.09532	2.13326	2.05057	2.00752					
	1.83495	+++++					AVRG		2.04670		5.00790
66 m&p-Xylene	2.52686	2.63318	2.54972	2.59568	2.49295	2.21057					
	2.31105	+++++					AVRG		2.47429		6.28243
67 o-Xylene	2.20819	2.26912	2.25571	2.28112	2.20686	2.14238					
	1.93445	+++++					AVRG		2.18540		5.50752

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Start Cal Date : 24-MAR-2006 13:51
End Cal Date : 24-MAR-2006 16:34
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Integrator : HP RTE
Method file : /var/chem/gcms/mz.i/Z032406I.b/8260B_LM.m
Cal Date : 28-Mar-2006 11:39 gosss

Compound	1 Level 1 0.3200 Level 7	2 Level 2 0.2000 Level 8	10 Level 3	20 Level 4	40 Level 5	80 Level 6	Curve	Coefficients b	 m1	 m2	%RSD or R^2	
68 Styrene	3.12714	3.19372	3.09953	3.11832	3.06862	2.99009						
	2.88091	+++++					AVRG		3.06833		3.36337	
69 Bromoform (spcc)	902	3151	23227	69535	155740	+++++						
	342	212					QUAD	0.08012	6.26987	-1.75323	0.99532	<-
70 Isopropylbenzene	6.30752	6.33819	6.36998	6.55612	6.43651	6.13585						
	5.84396	+++++					AVRG		6.28402		3.69664	
71 *cis-1,4-dichloro-2-butene	738	1185	12831	31704	72559	157150						
	+++++	+++++					QUAD	0.15516	11.26527	-2.12891	0.99928	
72 Bromobenzene	0.92356	0.97997	0.95738	0.96057	0.94353	0.93592						
	0.83641	+++++					AVRG		0.93391		5.00190	
73 1,1,2,2-Tetrachloroethane(sp)	0.34273	0.30777	0.35534	0.38213	0.35643	0.36745						
	0.30010	+++++					AVRG		0.34456		8.80806	
74 1,2,3-Trichloropropane	0.09267	0.08765	0.08499	0.08759	0.08062	0.08662						
	0.08253	+++++					AVRG		0.08610		4.54883	

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Start Cal Date : 24-MAR-2006 13:51
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Quant Method : ISTD
Target Version : 3.50
Integrator : HP RTE
Method file : /var/chem/gcms/mz.i/Z032406I.b/8260B_LM.m
Cal Date : 28-Mar-2006 11:39 gosss

Compound	1 Level 1 / 0.3200 Level 7	2 Level 2 / 0.2000 Level 8	10 Level 3	20 Level 4	40 Level 5	80 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
75 *trans-1,4-dichloro-2-butene	2278	3994	27019	59782	118001	245666					
	+++++	+++++					WLINR	0.04782	0.13103		0.99828
76 n-Propylbenzene	5.96494	6.11612	6.19261	6.44322	6.26175	5.99846					
	5.39283	+++++					AVRG		6.05285		5.50377
77 2-Chlorotoluene	3.14181	3.28575	3.21817	3.35392	3.22163	3.24224					
	3.00673	+++++					AVRG		3.21004		3.45167
78 1,3,5-Trimethylbenzene	4.03992	4.12422	4.15686	4.36781	4.14541	3.94215					
	3.73263	+++++					AVRG		4.07272		4.86840
79 4-Chlorotoluene	3.27371	3.48013	3.55695	3.65907	3.48239	3.33248					
	3.08613	+++++					AVRG		3.41012		5.65671
80 tert-Butylbenzene	3.64684	3.67540	3.72929	3.90358	3.74329	3.69878					
	3.12829	+++++					AVRG		3.64650		6.66515
81 1,2,4-Trimethylbenzene	3.71384	3.90063	3.88108	4.03642	3.91567	3.87960					
	3.45797	+++++					AVRG		3.82646		4.91031

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Start Cal Date : 24-MAR-2006 13:51
End Cal Date : 24-MAR-2006 16:34
Quant Method : ISTD
Target Version : 3.50
Integrator : HP RTE
Method file : /var/chem/gcms/mz.i/Z032406I.b/8260B_LM.m
Cal Date : 28-Mar-2006 11:39 gosss

Compound	1 Level 1 0.3200 Level 7	2 Level 2 0.2000 Level 8	10 Level 3	20 Level 4	40 Level 5	80 Level 6	Curve	Coefficients b	 m1	 m2	%RSD or R^2
82 sec-Butylbenzene	5.30372	5.46178	5.46334	5.71048	5.56407	5.54357					
	4.57918	+++++					AVRG		5.37516		6.92138
83 1,3-Dichlorobenzene	1.71409	1.74310	1.75390	1.84572	1.76435	1.77031					
	1.66185	+++++					AVRG		1.75048		3.20630
84 p-Isopropyltoluene	4.79696	4.70342	4.76514	5.03207	4.82664	4.59939					
	4.29136	+++++					AVRG		4.71643		4.85951
85 1,4-Dichlorobenzene	1.73244	1.67542	1.61201	1.69818	1.59773	1.53045					
	1.55151	+++++					AVRG		1.62825		4.66508
86 1,2-Dichlorobenzene	1.23043	1.25519	1.33636	1.39769	1.31502	1.31968					
	1.18565	+++++					AVRG		1.29143		5.55576
87 n-Butylbenzene	4.06519	4.15174	4.20853	4.43258	4.34031	4.39406					
	3.93656	+++++					AVRG		4.21842		4.31757
88 1,2-Dibromo-3-chloropropane	575	1118	9124	22173	45425	94455					
	+++++	+++++					WLINR	0.07684	0.05018		0.99601

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Start Cal Date : 24-MAR-2006 13:51
End Cal Date : 24-MAR-2006 16:34
Quant Method : ISTD
Target Version : 3.50
Integrator : HP RTE
Method file : /var/chem/gcms/mz.i/Z032406I.b/8260B_LM.m
Cal Date : 28-Mar-2006 11:39 gosss

	Compound	1 Level 1 0.3200 Level 7	2 Level 2 0.2000 Level 8	10 Level 3	20 Level 4	40 Level 5	80 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	89 1,2,4-Trichlorobenzene	0.74356 +++++	0.78186 +++++	0.78131	0.82745	0.78629	0.77582	AVRG		0.78272		3.42713
	90 Hexachlorobutadiene	0.67700 +++++	0.74831 +++++	0.74432	0.78646	0.74560	0.70254	AVRG		0.73404		5.25404
	91 Napthalene	0.77442 +++++	0.77886 +++++	0.79251	0.88395	0.83651	0.85866	AVRG		0.82082		5.55067
	92 1,2,3-Trichlorobenzene	0.44745 +++++	0.52129 +++++	0.50470	0.55826	0.53363	0.52833	AVRG		0.51561		7.31033
M	93 *1,4-dichloro-2-butene(total)	0.07417 +++++	0.06756 +++++	0.10094	0.11806	0.12278	0.13193	AVRG		0.10257		25.96262
$	4 Dibromofluoromethane	0.15507 +++++	0.14487 +++++	0.16212	0.17185	0.16727	+++++	AVRG		0.16024		6.62582
$	5 1,2-Dichloroethane-d4	0.14002 +++++	0.12960 +++++	0.13910	0.14225	0.14185	+++++	AVRG		0.13856		3.73480

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Start Cal Date : 24-MAR-2006 13:51
End Cal Date : 24-MAR-2006 16:34
Quant Method : ISTD
Target Version : 3.50
Integrator : HP RTE
Method file : /var/chem/gcms/mz.i/Z032406I.b/8260B_LM.m
Cal Date : 28-Mar-2006 11:39 gosss

Compound	1 Level 1 0.3200 Level 7	2 Level 2 0.2000 Level 8	10 Level 3	20 Level 4	40 Level 5	80 Level 6	Curve	Coefficients b	 m1	 m2	%RSD or R^2
$ 6 Toluene-d8	4.35051	4.13967	4.48662	4.57792	4.41441	+++++					
	+++++	+++++					AVRG		4.39383		3.76377
$ 7 4-Bromofluorobenzene	1.06393	0.95714	0.98690	1.04723	0.98731	+++++					
	+++++	+++++					AVRG		1.00850		4.46933

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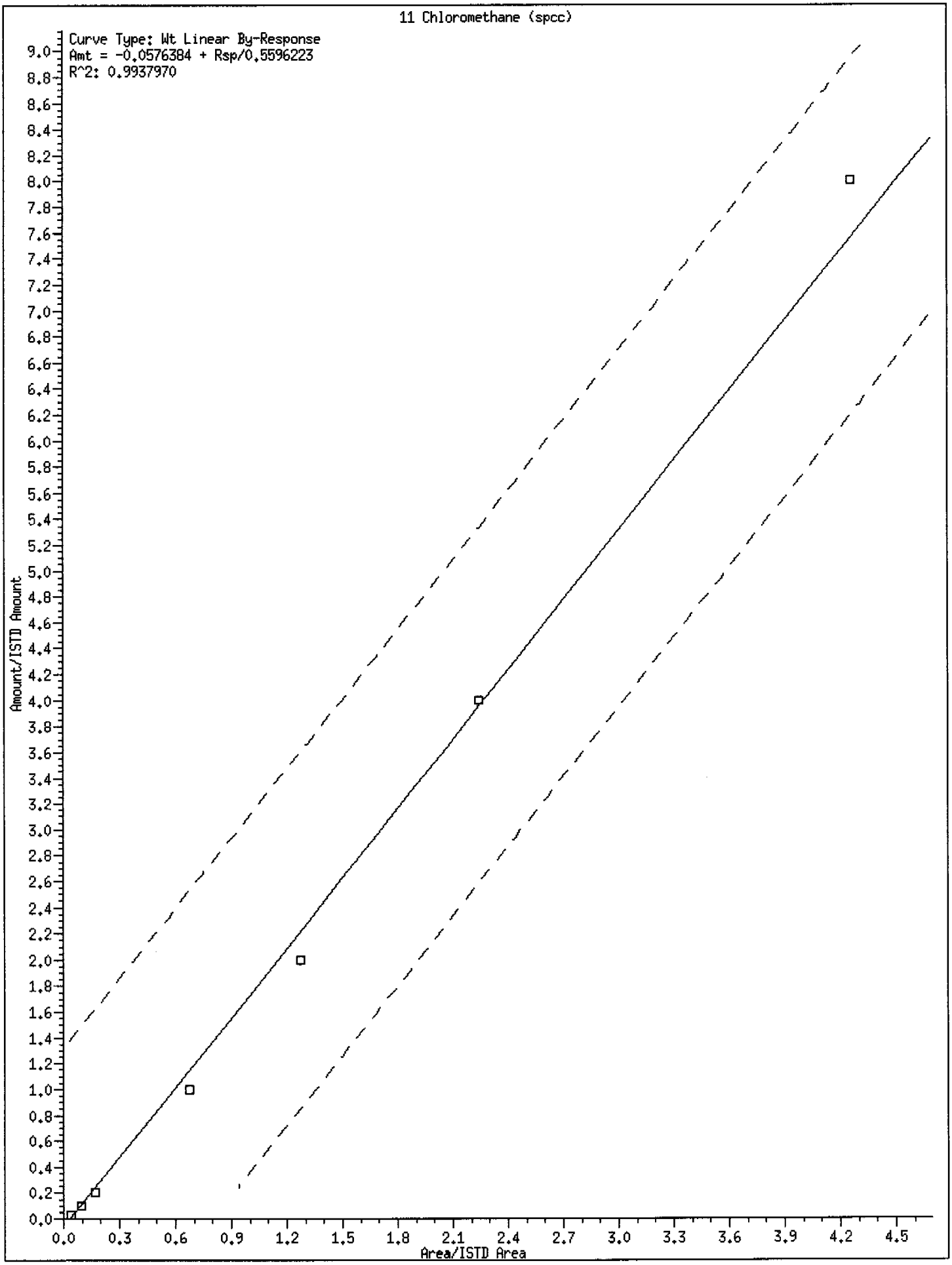
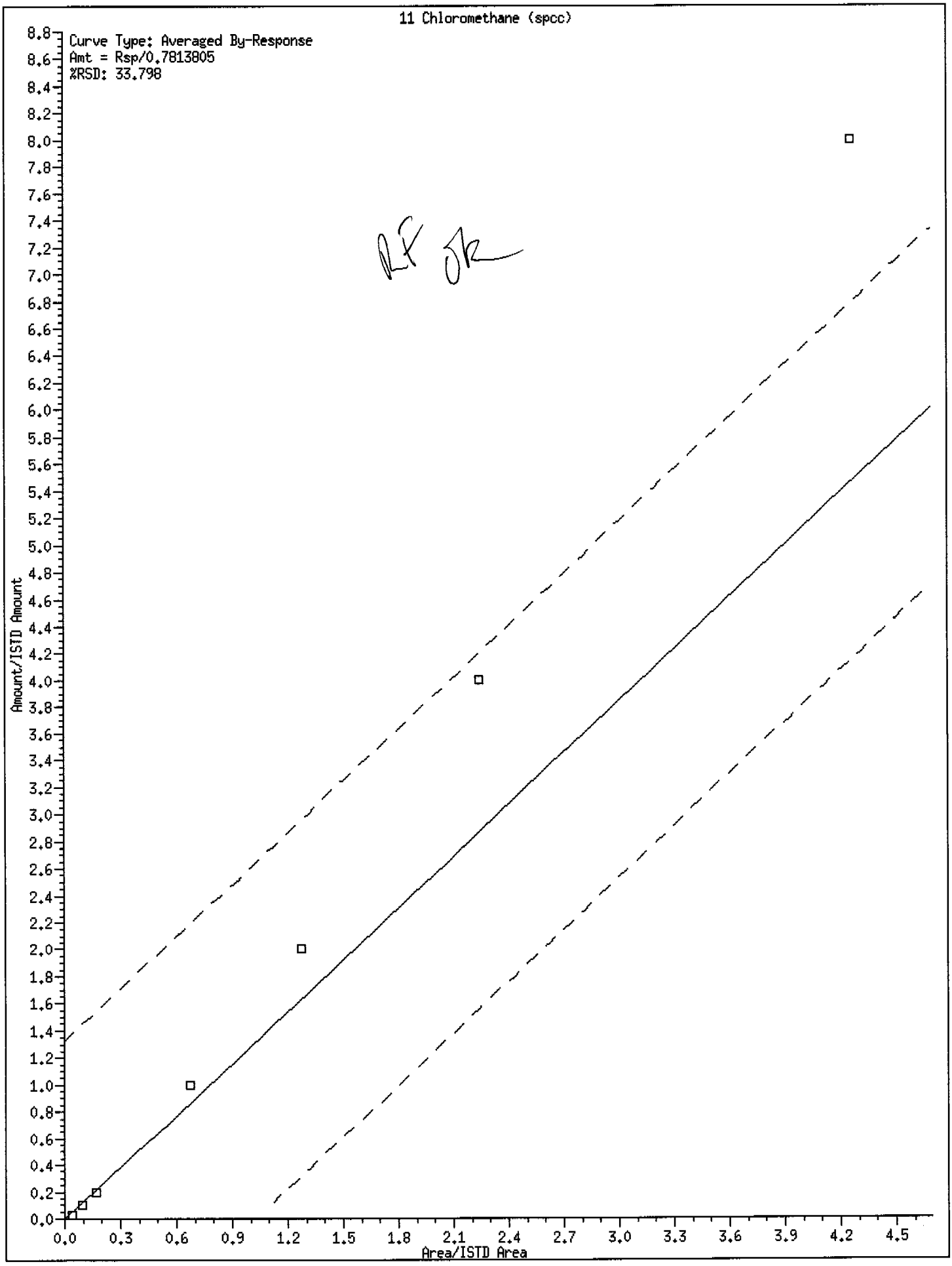
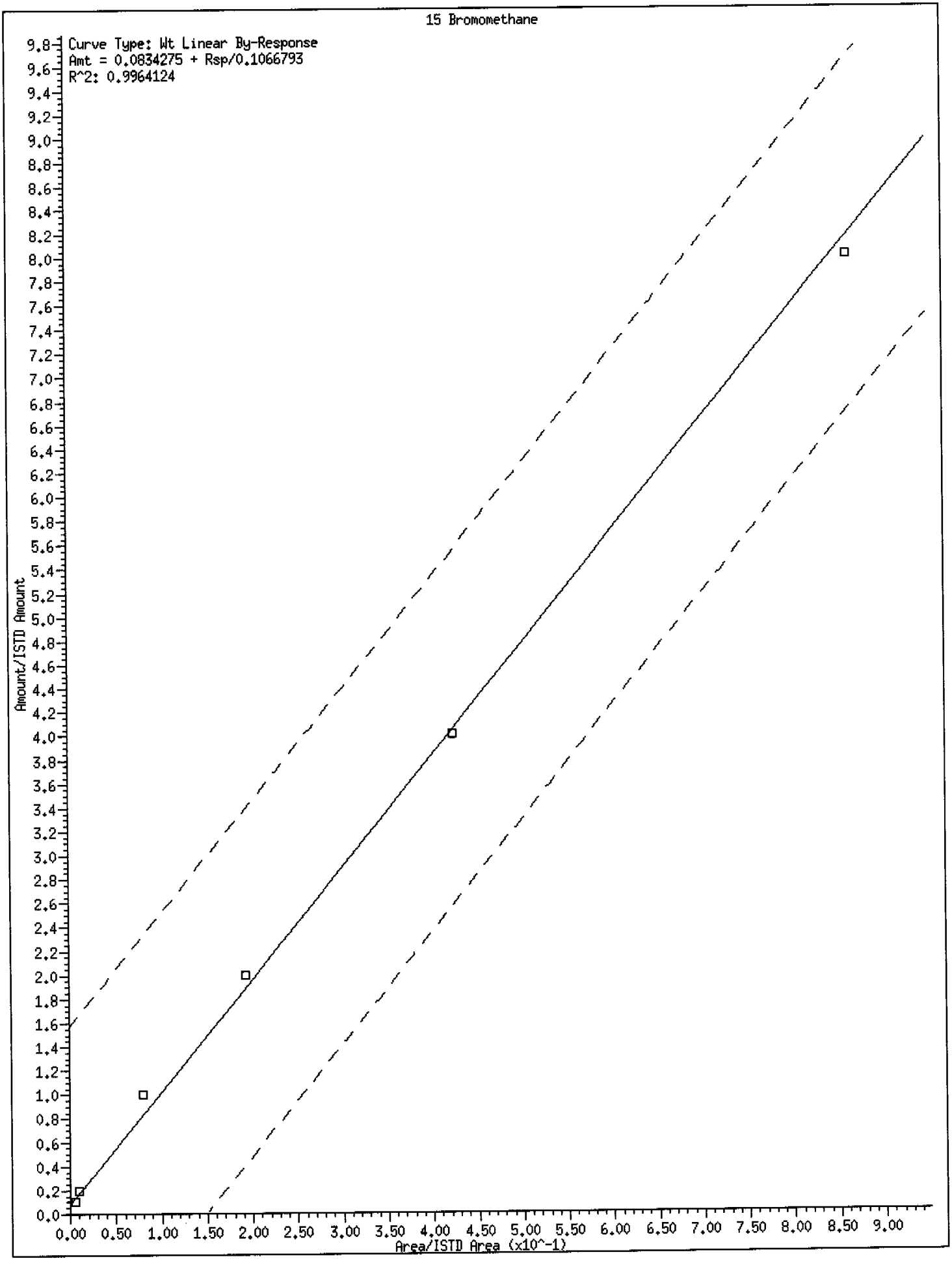
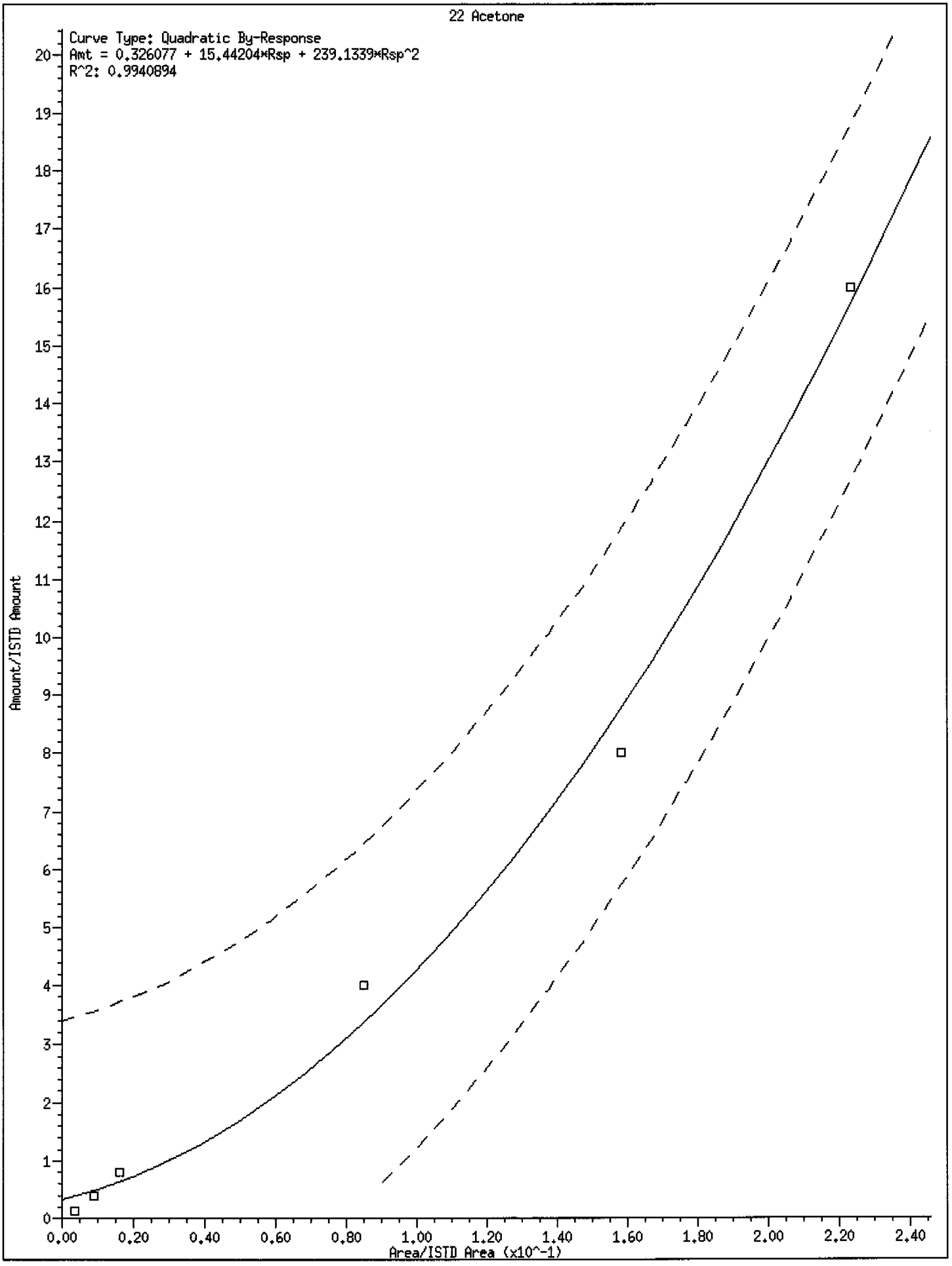
Start Cal Date : 24-MAR-2006 13:51
End Cal Date : 24-MAR-2006 16:34
Quant Method : ISTD
Target Version : 3.50
Integrator : HP RTE
Method file : /var/chem/gcms/mz.i/Z032406I.b/8260B_LM.m
Cal Date : 28-Mar-2006 11:39 gosss

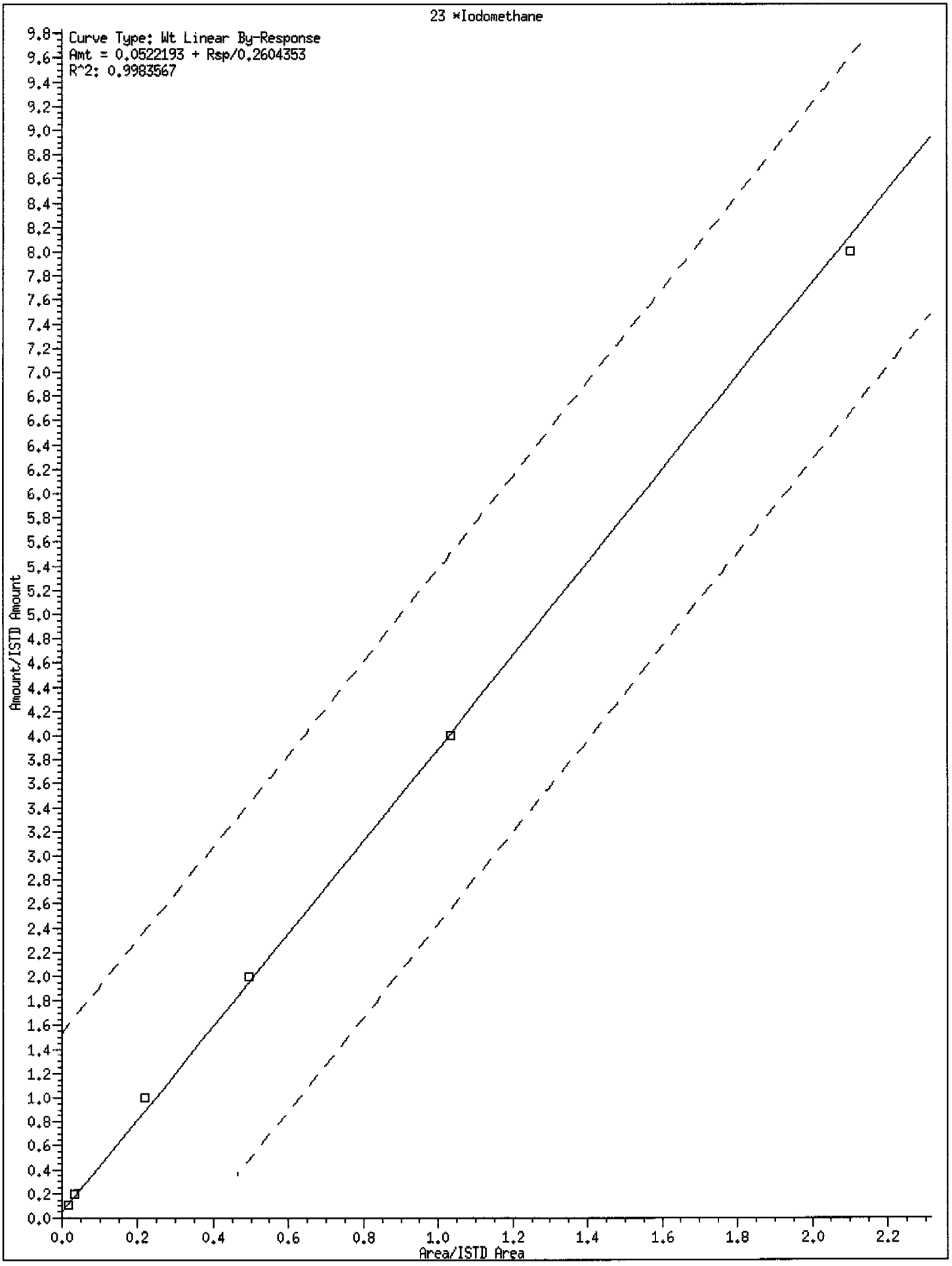
Curve	Formula	Units
Averaged	Amt = Rsp/m1	Response
Linear	Amt = b + Rsp/m1	Response
Wt Linear	Amt = b + Rsp/m1	Response
Quad	Amt = b + m1*Rsp + m2*Rsp^2	Response

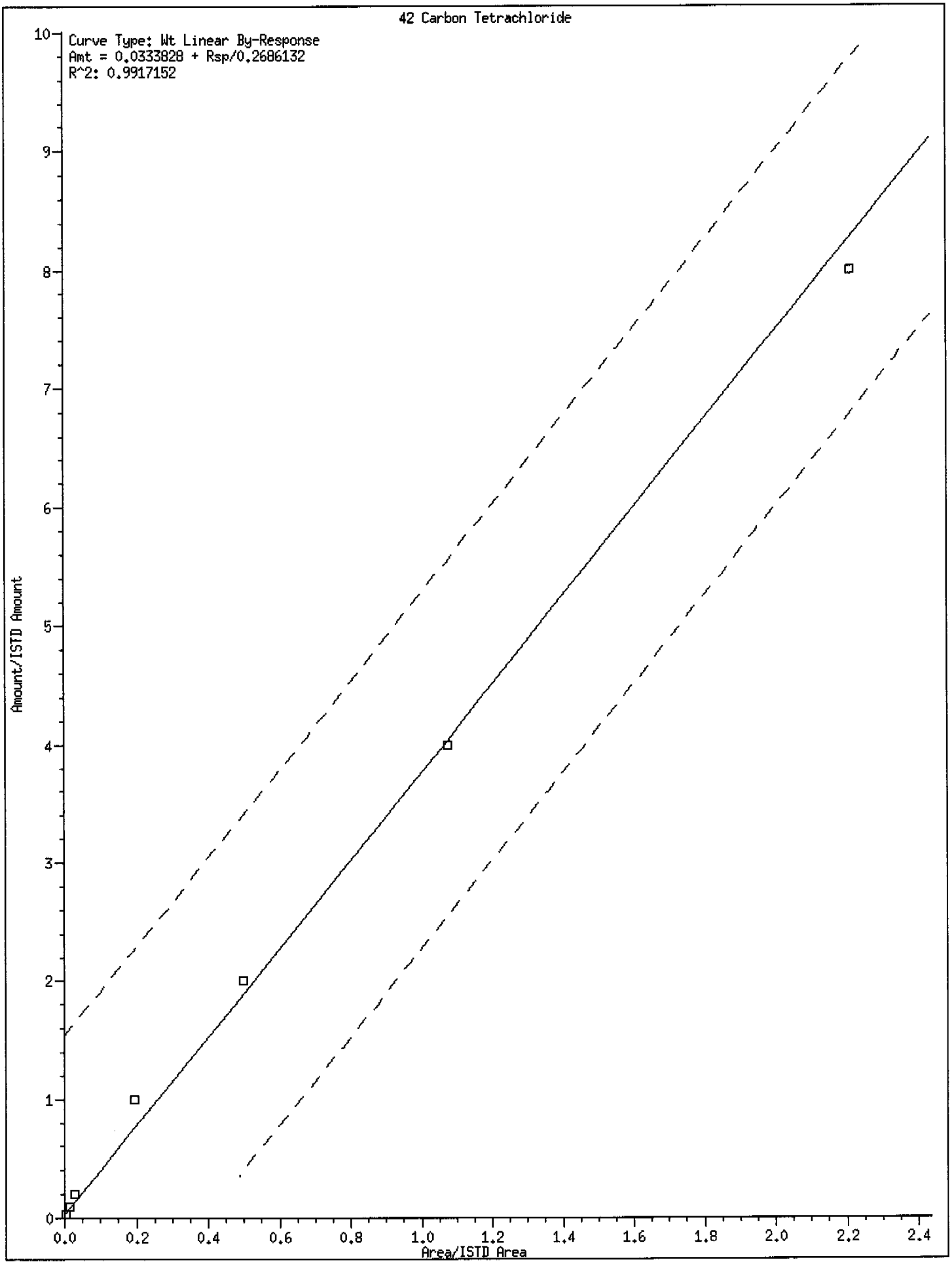

11 Chloromethane (spcc)
Curve Type: Wt Linear By-Response
Amt = -0.0576384 + Rsp/0.5596223
R^2: 0.9937970
Amount/ISTD Amount
Area/ISTD Area
0.0
0.3
0.6
0.9
1.2
1.5
1.8
2.1
2.4
2.7
3.0
3.3
3.6
3.9
4.2
4.5

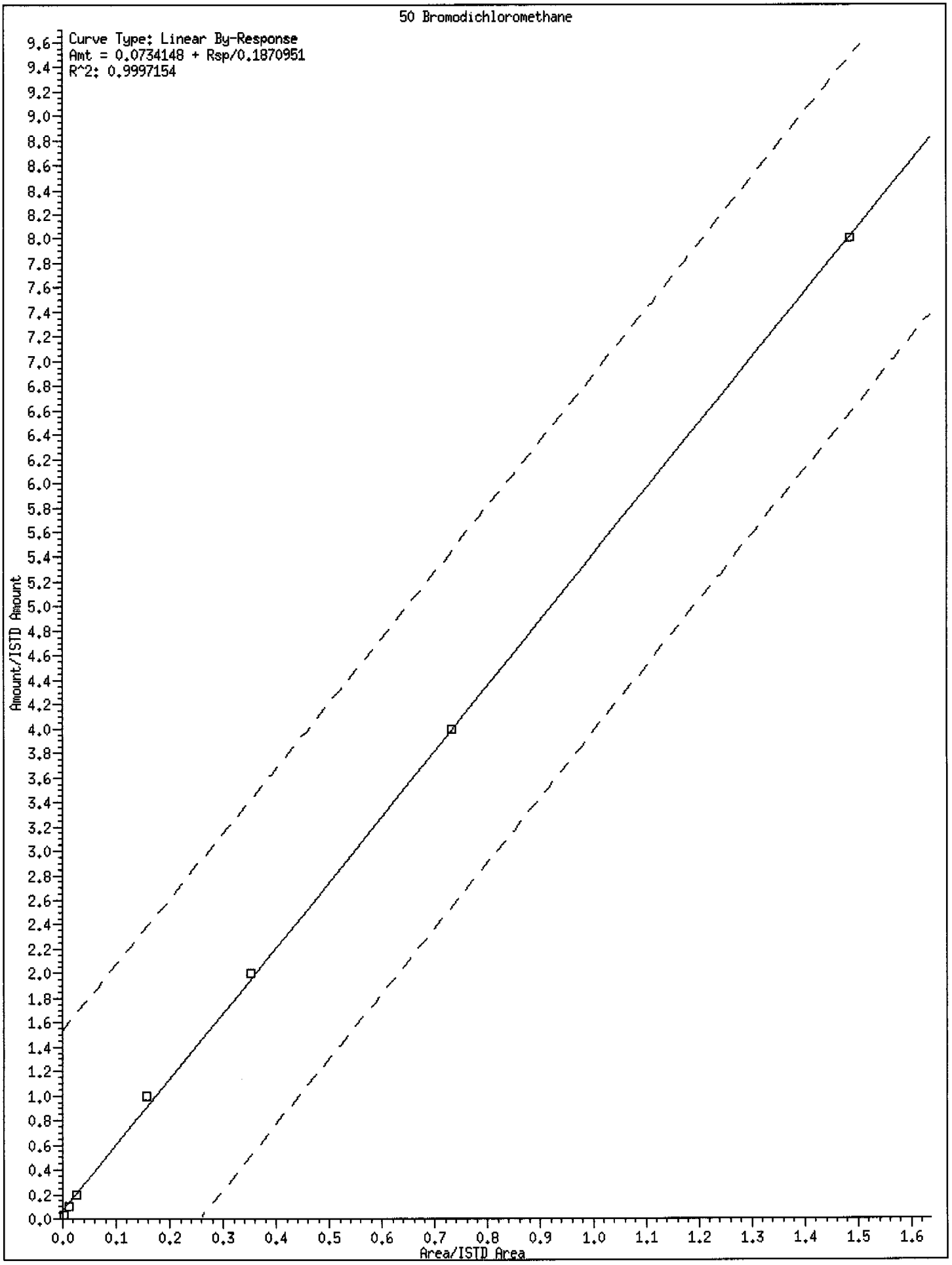

11 Chloromethane (spcc)
Curve Type: Averaged By-Response
Amt = Rsp/0.7813805
%RSD: 33.798
RF JR
Amount/ISTD Amount
Area/ISTD Area
0.0 0.3 0.6 0.9 1.2 1.5 1.8 2.1 2.4 2.7 3.0 3.3 3.6 3.9 4.2 4.5
0.0 0.2 0.4 0.6 0.8 1.0 1.2 1.4 1.6 1.8 2.0 2.2 2.4 2.6 2.8 3.0 3.2 3.4 3.6 3.8 4.0 4.2 4.4 4.6 4.8 5.0 5.2 5.4 5.6 5.8 6.0 6.2 6.4 6.6 6.8 7.0 7.2 7.4 7.6 7.8 8.0 8.2 8.4 8.6 8.8

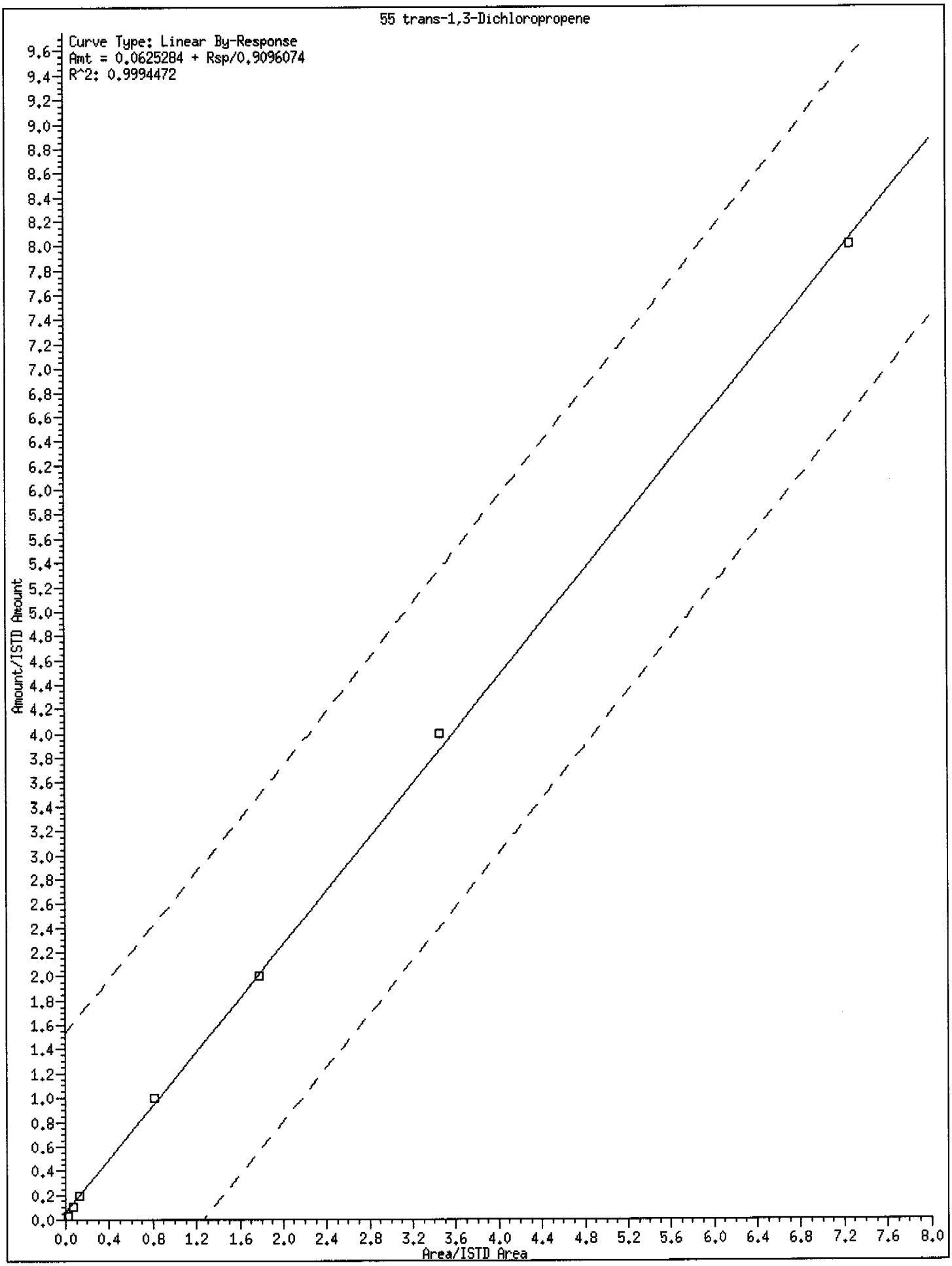

15 Bromomethane
Curve Type: Wt Linear By-Response
Amt = 0.0834275 + Rsp/0.1066793
R^2: 0.9964124
Amount/ISTD Amount
Area/ISTD Area (x10^-1)

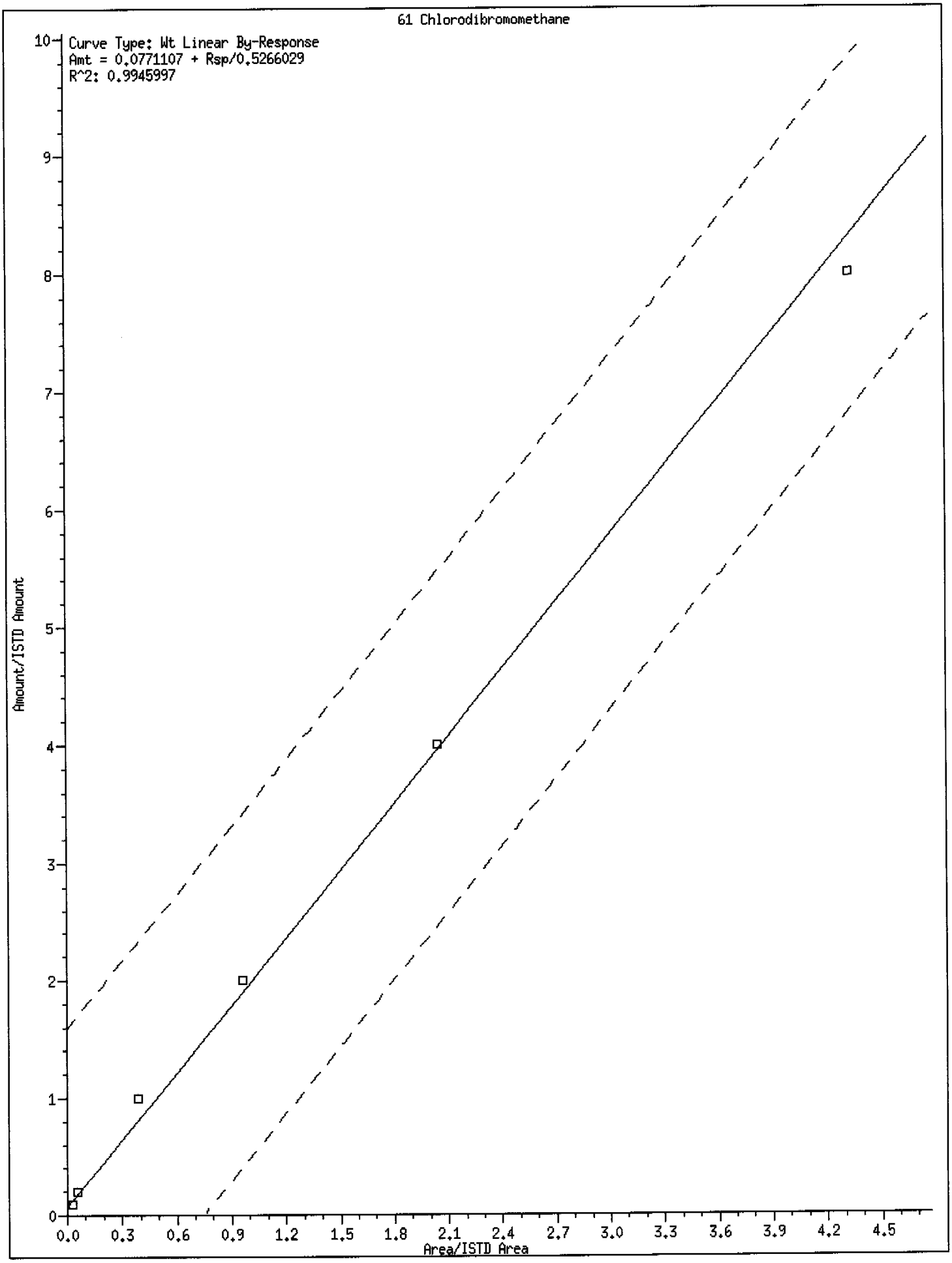

22 Acetone
Curve Type: Quadratic By-Response
Amt = 0.326077 + 15.44204*Rsp + 239.1339*Rsp^2
R^2: 0.9940894
Amount/ISTD Amount
Area/ISTD Area (x10^-1)
0
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
0.00
0.20
0.40
0.60
0.80
1.00
1.20
1.40
1.60
1.80
2.00
2.20
2.40

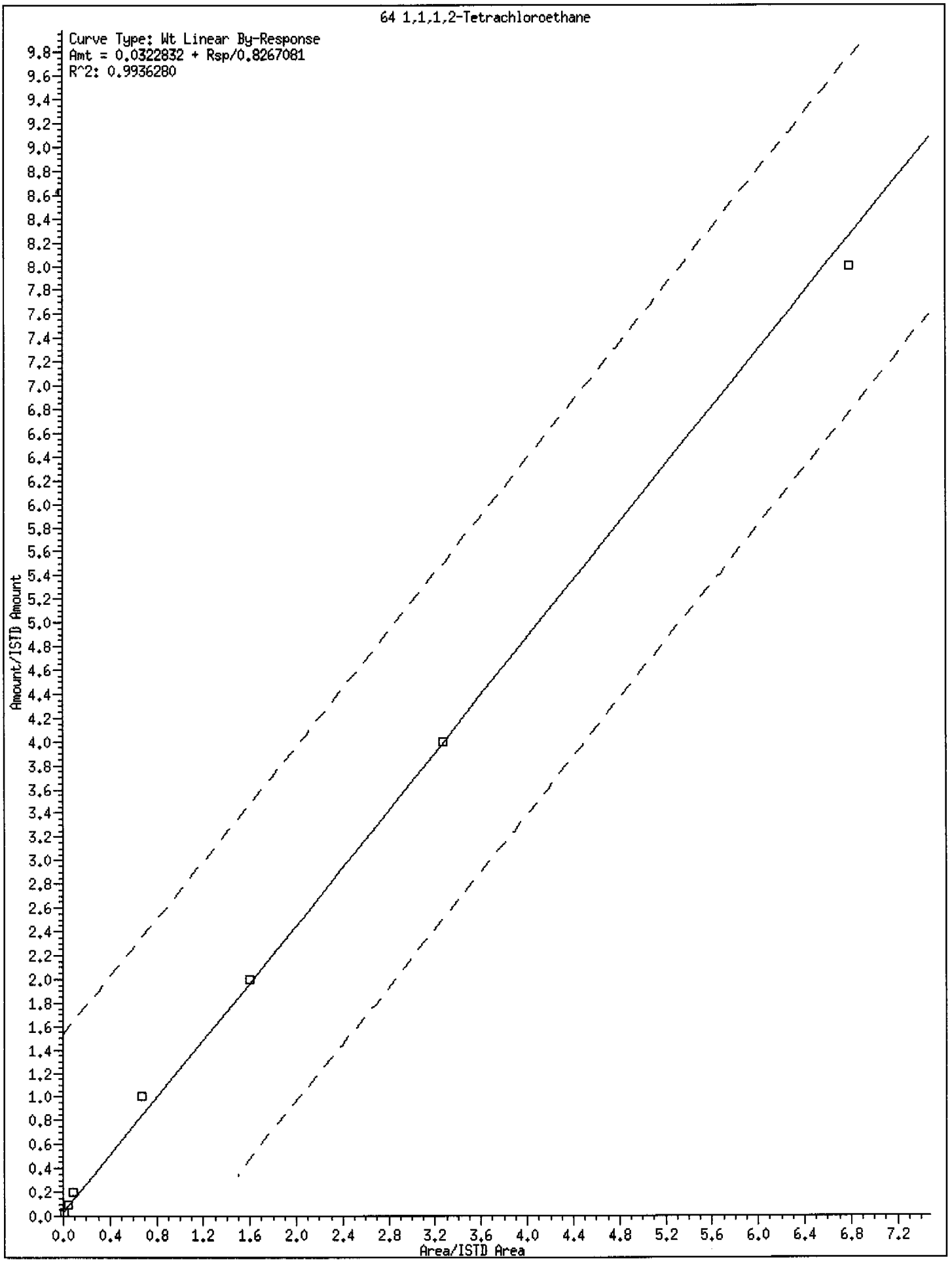

23 *Iodomethane
Curve Type: Wt Linear By-Response
Amt = 0.0522193 + Rsp/0.2604353
R^2: 0.9983567
Amount/ISTD Amount
Area/ISTD Area
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6
1.8
2.0
2.2

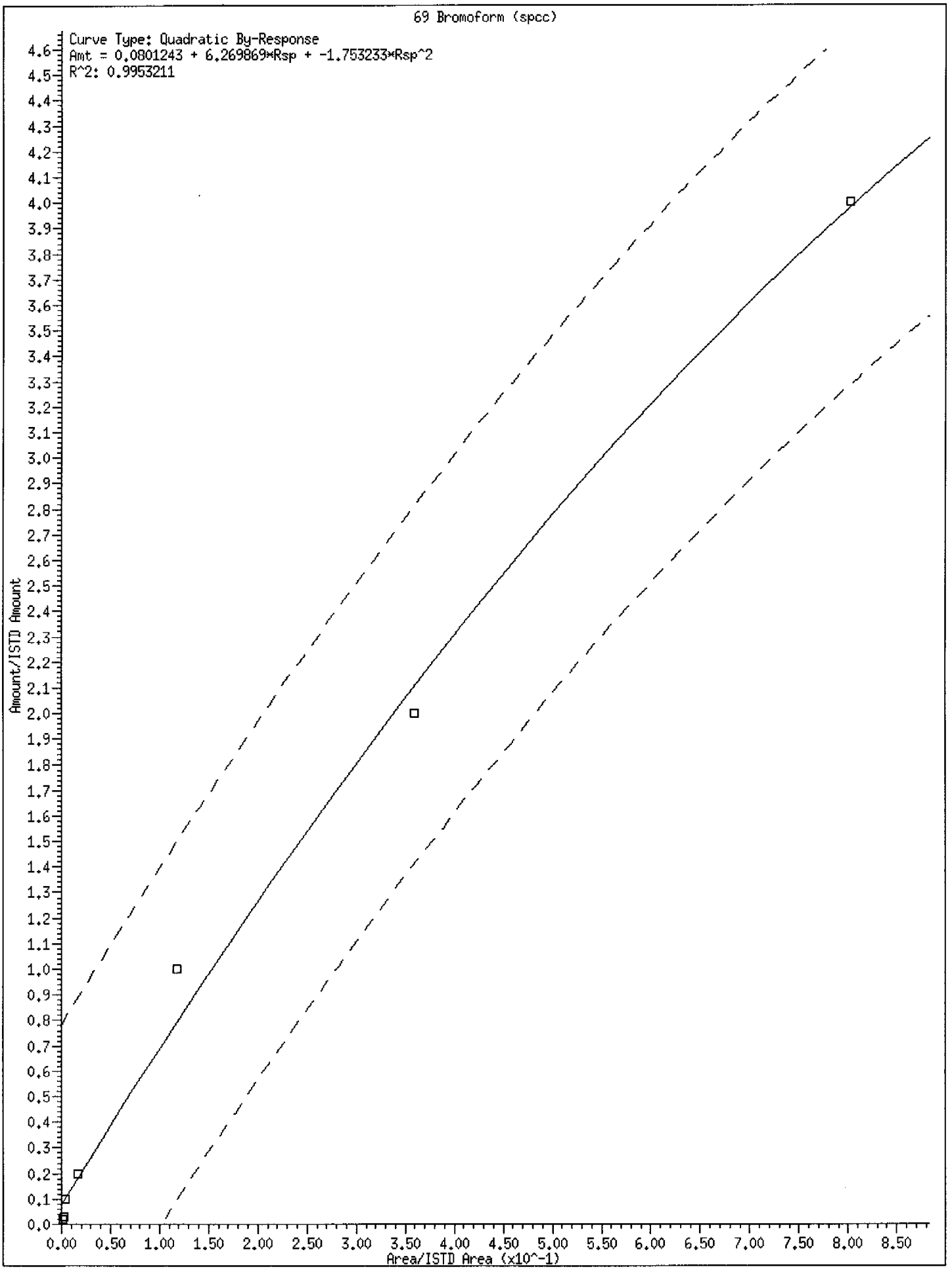

42 Carbon Tetrachloride
Curve Type: Wt Linear By-Response
Amt = 0.0333828 + Rsp/0.2686132
R^2: 0.9917152
Amount/ISTD Amount
Area/ISTD Area
0
1
2
3
4
5
6
7
8
9
10
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6
1.8
2.0
2.2
2.4

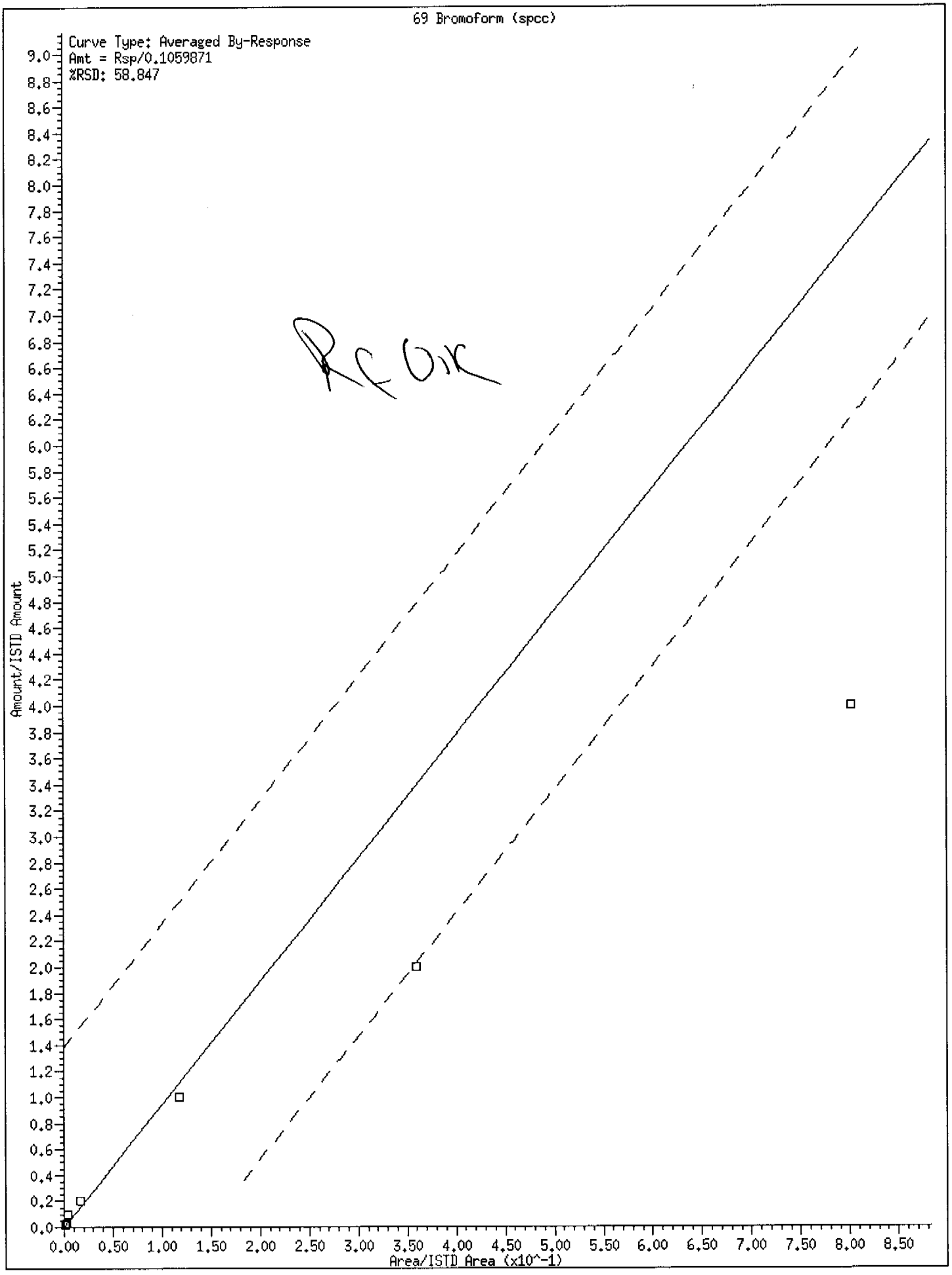

50 Bromodichloromethane
Curve Type: Linear By-Response
Amt = 0.0734148 + Rsp/0.1870951
R^2: 0.9997154
Amount/ISTD Amount
Area/ISTD Area

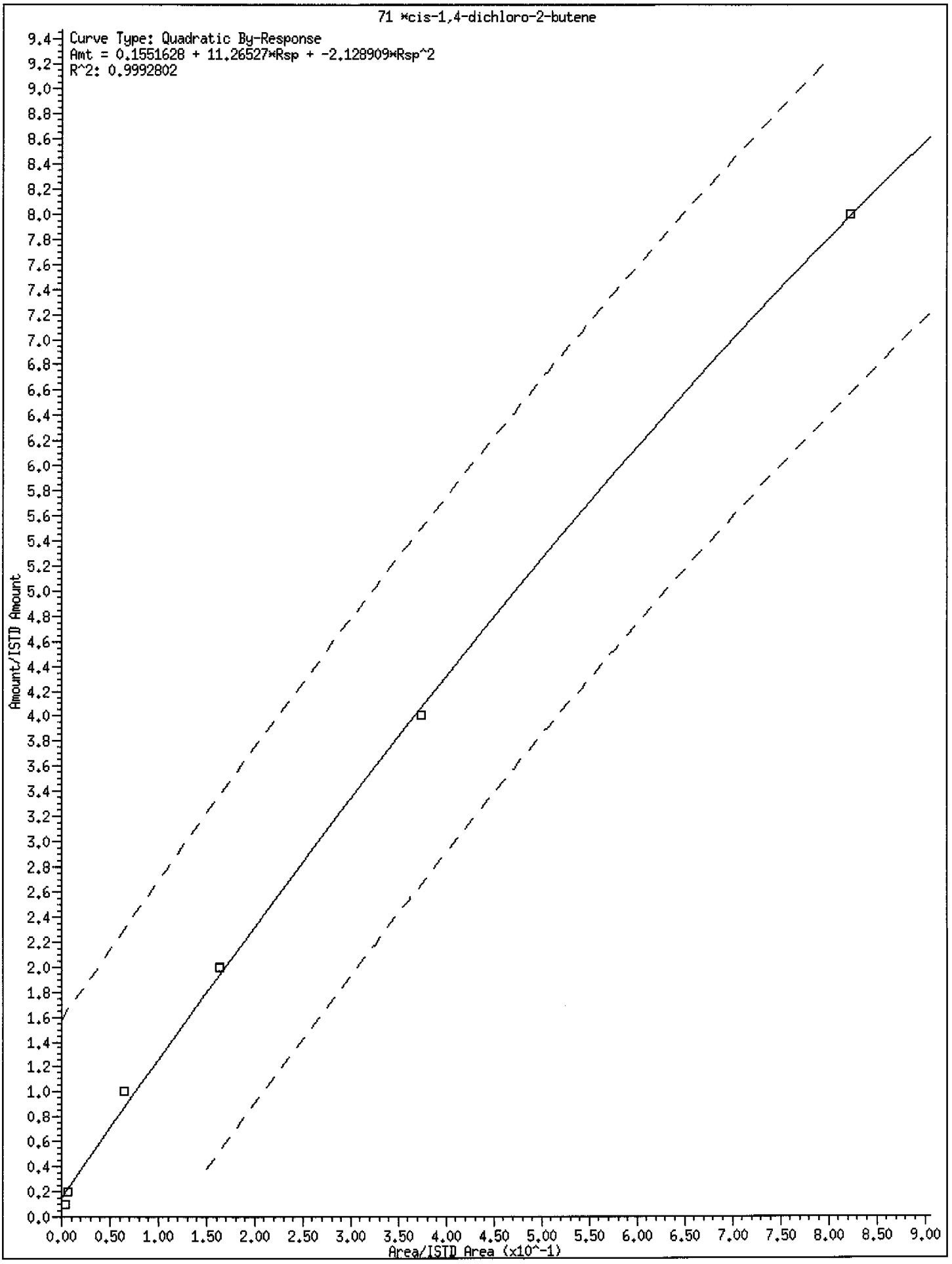

55 trans-1,3-Dichloropropene
Curve Type: Linear By-Response
Amt = 0.0625284 + Rsp/0.9096074
R^2: 0.9994472
Amount/ISTD Amount
Area/ISTD Area

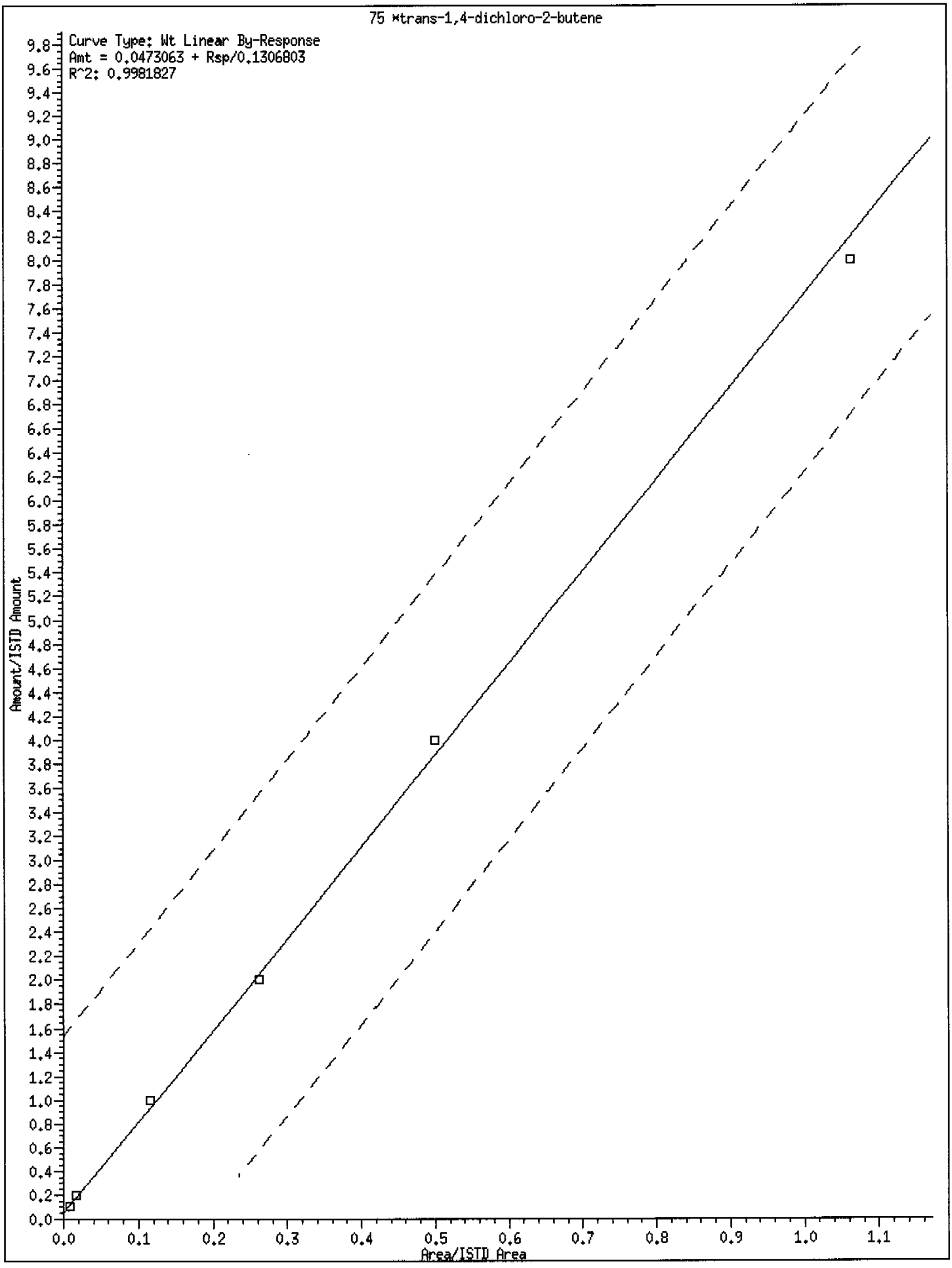

61 Chlorodibromomethane
Curve Type: Wt Linear By-Response
Amt = 0.0771107 + Rsp/0.5266029
R^2: 0.9945997
Amount/ISTD Amount
Area/ISTD Area
0
1
2
3
4
5
6
7
8
9
10
0.0
0.3
0.6
0.9
1.2
1.5
1.8
2.1
2.4
2.7
3.0
3.3
3.6
3.9
4.2
4.5


64 1,1,1,2-Tetrachloroethane
Curve Type: Wt Linear By-Response
Amt = 0.0322832 + Rsp/0.8267081
R^2: 0.9936280
Amount/ISTD Amount
Area/ISTD Area


69 Bromoform (spcc)
Curve Type: Quadratic By-Response
Amt = 0.0801243 + 6.269869*Rsp + -1.753233*Rsp^2
R^2: 0.9953211
Amount/ISTD Amount
Area/ISTD Area (x10^-1)
0.0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1.0
1.1
1.2
1.3
1.4
1.5
1.6
1.7
1.8
1.9
2.0
2.1
2.2
2.3
2.4
2.5
2.6
2.7
2.8
2.9
3.0
3.1
3.2
3.3
3.4
3.5
3.6
3.7
3.8
3.9
4.0
4.1
4.2
4.3
4.4
4.5
4.6
0.00
0.50
1.00
1.50
2.00
2.50
3.00
3.50
4.00
4.50
5.00
5.50
6.00
6.50
7.00
7.50
8.00
8.50


69 Bromoform (spcc)
Curve Type: Averaged By-Response
Amt = Rsp/0.1059871
%RSD: 58.847
RF0K
Amount/ISTD Amount
Area/ISTD Area (x10^-1)
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6
1.8
2.0
2.2
2.4
2.6
2.8
3.0
3.2
3.4
3.6
3.8
4.0
4.2
4.4
4.6
4.8
5.0
5.2
5.4
5.6
5.8
6.0
6.2
6.4
6.6
6.8
7.0
7.2
7.4
7.6
7.8
8.0
8.2
8.4
8.6
8.8
9.0
0.00
0.50
1.00
1.50
2.00
2.50
3.00
3.50
4.00
4.50
5.00
5.50
6.00
6.50
7.00
7.50
8.00
8.50


71 *cis-1,4-dichloro-2-butene
Curve Type: Quadratic By-Response
Amt = 0.1551628 + 11.26527*Rsp + -2.128909*Rsp^2
R^2: 0.9992802
Amount/ISTD Amount
Area/ISTD Area (x10^-1)


75 *trans-1,4-dichloro-2-butene
Curve Type: Wt Linear By-Response
Amt = 0.0473063 + Rsp/0.1306803
R^2: 0.9981827
Amount/ISTD Amount
Area/ISTD Area
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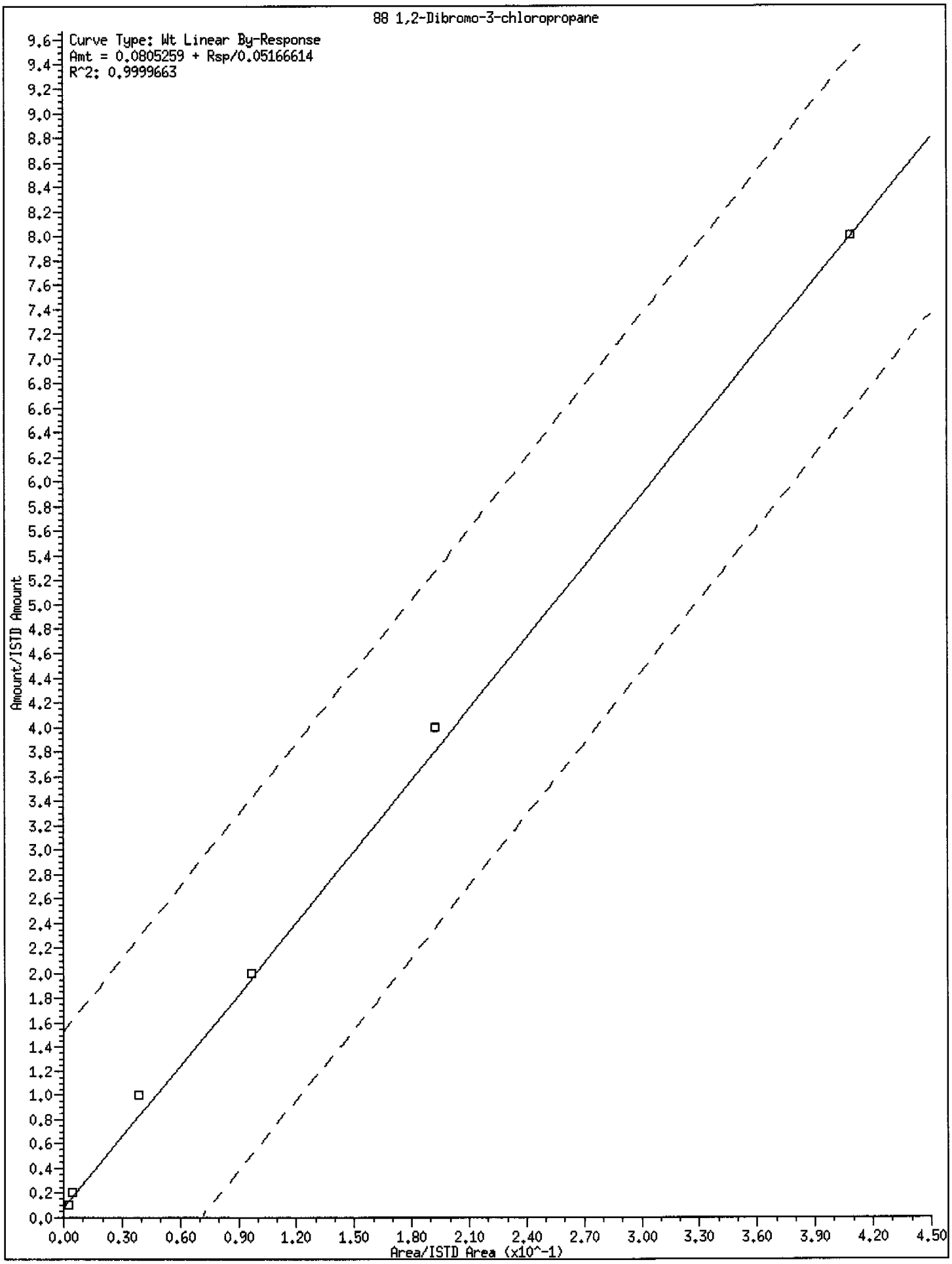
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1.0
1.1


88 1,2-Dibromo-3-chloropropane
Curve Type: Wt Linear By-Response
Amt = 0.0805259 + Rsp/0.05166614
R^2: 0.9999663
Amount/ISTD Amount
Area/ISTD Area (x10^-1)
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6
1.8
2.0
2.2
2.4
2.6
2.8
3.0
3.2
3.4
3.6
3.8
4.0
4.2
4.4
4.6
4.8
5.0
5.2
5.4
5.6
5.8
6.0
6.2
6.4
6.6
6.8
7.0
7.2
7.4
7.6
7.8
8.0
8.2
8.4
8.6
8.8
9.0
9.2
9.4
9.6
0.00
0.30
0.60
0.90
1.20
1.50
1.80
2.10
2.40
2.70
3.00
3.30
3.60
3.90
4.20
4.50

Data File: /var/chem/gcms/mz.i/Z032406I.b/icvzc248.d
Report Date: 28-Mar-2006 11:57

STL Knoxville

Volatile Organics by GC/MS

Data file : /var/chem/gcms/mz.i/Z032406I.b/icvzc248.d
Lab Smp Id: ICVZC248 Client Smp ID: STD0.20
Inj Date : 24-MAR-2006 13:51
Operator : 22980 Inst ID: mz.i
Smp Info : ICVZC248,1,1,8,,STD0.20
Misc Info : Z032406I,8260B_LM,
Comment : Volatile Organics by GC/MS
Method : /var/chem/gcms/mz.i/Z032406I.b/8260B_LM.m
Meth Date : 28-Mar-2006 11:57 gosss Quant Type: ISTD
Cal Date : 24-MAR-2006 13:51 Cal File: icvzc248.d
Als bottle: 1 Calibration Sample, Level: 8
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50
Processing Host: qmidhp01

Concentration Formula: Amt * DF * Uf * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	0.02500	ug/L * 0.025L purged

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
*	1 Fluorobenzene	96	5.662	5.666	(1.000)	1039615	10.0000	
*	2 Chlorobenzene-d5	119	8.929	8.927	(1.000)	188148	10.0000	
*	3 1,4 Dichlorobenzene-d4	152	11.484	11.488	(1.000)	249950	10.0000	
$	4 Dibromofluoromethane	113	4.835	4.826	(0.854)	3794	0.20000	0.22775
$	5 1,2-Dichloroethane-d4	65	5.230	5.228	(0.924)	4138	0.20000	0.28726
$	6 Toluene-d8	98	7.451	7.455	(0.834)	24821	0.20000	0.30024
$	7 4-Bromofluorobenzene	95	10.121	10.119	(0.881)	7329	0.20000	0.29075
M	8 1,2-Dichloroethene (total)	96				9452	0.20000	0.34343
M	9 Xylene (total)	106				27923	0.20000	0.62429
	10 Dichlorodifluoromethane	85	1.014	1.012	(0.179)	3684	0.20000	0.14517
	12 Vinyl Chloride (ccc)	62	1.197	1.195	(0.211)	5728	0.20000	0.13989
	13 *1,3-Butadiene	39	1.221	1.219	(0.216)	6288	0.20000	0.17029
	15 Bromomethane	94	1.404	1.414	(0.248)	1909	0.20000	1.0064
	16 Chloroethane	64	1.483	1.481	(0.262)	3816	0.20000	0.19681
	17 *Vinyl Bromide	106	1.617	1.614	(0.286)	3137	0.20000	0.18110
	18 Trichlorofluoromethane	101	1.665	1.669	(0.294)	4821	0.20000	0.15172

Data File: /var/chem/gcms/mz.i/Z032406I.b/icvzc248.d
Report Date: 28-Mar-2006 11:57

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
19	*2-Chloropropane	43	1.951	1.949	(0.345)	11552	0.20000	0.16797
20	1,1-Dichloroethene (ccc)	96	2.067	2.065	(0.365)	3882	0.20000	0.17181
21	*Freon 113	151	2.085	2.083	(0.368)	3028	0.20000	0.17214
22	Acetone	43	2.116	2.125	(0.374)	5091	0.80000	4.0743(M)
23	*Iodomethane	142	2.176	2.180	(0.384)	2845	0.20000	0.62727
24	Carbon Disulfide	76	2.231	2.229	(0.394)	14293	0.20000	0.17920
26	*Acetonitrile	40	2.377	2.369	(0.420)	5831	0.20000	12.590
27	Methylene Chloride	84	2.505	2.503	(0.442)	3368	0.20000	0.19371
29	*Acrylonitrile	53	2.754	2.758	(0.486)	11997	0.20000	3.0903
30	trans-1,2-Dichloroethene	96	2.791	2.795	(0.493)	5329	0.20000	0.18683
31	*MTBE	73	2.821	2.819	(0.498)	4220	0.20000	0.16867
32	*Hexane	57	3.138	3.135	(0.554)	24054	0.20000	0.32915
33	1,1-Dichloroethane (spcc)	63	3.271	3.275	(0.578)	10609	0.20000	0.16091
34	*Vinyl Acetate	86	3.125	3.409	(0.552)	2185	0.20000	1.5764
35	2,2-Dichloropropane	77	4.087	4.096	(0.722)	4391	0.20000	0.13108
36	cis 1,2-Dichloroethene	96	4.105	4.115	(0.725)	4123	0.20000	0.15660
37	2-Butanone	43	4.184	4.169	(0.739)	4504	0.20000	1.1434
38	Bromochloromethane	128	4.433	4.449	(0.783)	1305	0.20000	0.18026
39	*THF	42	4.525	4.528	(0.799)	8242	0.20000	3.3414
40	Chloroform (ccc)	83	4.604	4.607	(0.813)	5857	0.20000	0.15592
41	1,1,1-Trichloroethane	97	4.804	4.814	(0.848)	4210	0.20000	0.12663
42	Carbon Tetrachloride	117	5.048	5.039	(0.891)	1716	0.20000	0.40131
43	1,1-Dichloropropene	75	5.036	5.039	(0.889)	6040	0.20000	0.16954
44	Benzene	78	5.291	5.295	(0.934)	21327	0.20000	0.20802
45	1,2-Dichloroethane	62	5.328	5.325	(0.941)	3506	0.20000	0.16149
46	Trichloroethene	130	6.106	6.110	(1.078)	5762	0.20000	0.19980
47	1,2-Dichloropropane (ccc)	63	6.344	6.341	(1.120)	4586	0.20000	0.16372
48	*Methyl Methacrylate	41	6.581	6.572	(1.162)	1273	0.20000	0.13853
49	Dibromomethane	93	6.471	6.469	(1.143)	1010	0.20000	0.17315
51	*2-Chloroethylvinylether	63	7.067	7.065	(1.248)	1933	0.20000	0.30405
52	cis-1,3-Dichloropropene	75	7.183	7.181	(1.269)	3380	0.20000	0.14860
53	4-Methyl-2-pentanone	43	7.384	7.375	(1.304)	6975	0.20000	0.76828
54	Toluene (ccc)	91	7.524	7.528	(0.843)	18847	0.20000	0.17602
55	trans-1,3-Dichloropropene	75	7.779	7.783	(0.871)	1661	0.20000	0.72234
56	*Ethyl Methacrylate	69	7.937	7.929	(0.889)	922	0.20000	0.10080
57	1,1,2-Trichloroethane	97	7.950	7.959	(0.890)	1306	0.20000	0.15028
58	Tetrachloroethene	164	8.089	8.093	(0.906)	4234	0.20000	0.19064
59	1,3-Dichloropropane	76	8.120	8.118	(0.909)	2381	0.20000	0.15630
60	2-Hexanone	43	8.254	8.251	(0.924)	4568	0.20000	0.78457
61	Chlorodibromomethane	129	8.083	8.349	(0.905)	3664	0.20000	1.1409
62	1,2-Dibromoethane	107	8.430	8.434	(0.944)	1108	0.20000	0.14237
63	Chlorobenzene (spcc)	112	8.953	8.957	(1.003)	11506	0.20000	0.19252
64	1,1,1,2-Tetrachloroethane	131	9.057	9.054	(1.014)	955	0.20000	0.38423
65	Ethylbenzene (ccc)	106	9.093	9.091	(1.018)	7631	0.20000	0.19816
66	m&p-Xylene	106	9.215	9.219	(1.032)	19302	0.20000	0.41462
67	o-Xylene	106	9.610	9.608	(1.076)	8621	0.20000	0.20966
68	Styrene	104	9.623	9.620	(1.078)	11877	0.20000	0.20573

Data File: /var/chem/gcms/mz.i/Z032406I.b/icvzc248.d
Report Date: 28-Mar-2006 11:57

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
	==========	====	==	======	======	========	=======	=======
	69 Bromoform (spcc)	173	9.781	9.778	(1.095)	212	0.20000	0.87187(M)
	70 Isopropylbenzene	105	9.988	9.991	(1.119)	22397	0.20000	0.18943
	71 *cis-1,4-dichloro-2-butene	88	10.121	10.052	(1.134)	346	0.20000	1.7587
	72 Bromobenzene	156	10.255	10.253	(1.149)	3330	0.20000	0.18951
	73 1,1,2,2-Tetrachloroethane(sp)	83	10.286	10.289	(1.152)	1161	0.20000	0.17909
	75 *trans-1,4-dichloro-2-butene	53	10.401	10.350	(0.906)	161	0.20000	0.52735
	76 n-Propylbenzene	91	10.407	10.405	(0.906)	30665	0.20000	0.20269
	77 2-Chlorotoluene	91	10.474	10.472	(0.912)	16353	0.20000	0.20381
	78 1,3,5-Trimethylbenzene	105	10.614	10.612	(0.924)	23676	0.20000	0.23258
	79 4-Chlorotoluene	91	10.596	10.594	(0.923)	17627	0.20000	0.20680
	80 tert-Butylbenzene	119	10.985	10.989	(0.957)	17500	0.20000	0.19200
	81 1,2,4-Trimethylbenzene	105	11.052	11.050	(0.962)	22941	0.20000	0.23986
	82 sec-Butylbenzene	105	11.283	11.281	(0.983)	27151	0.20000	0.20209
	83 1,3-Dichlorobenzene	146	11.381	11.384	(0.991)	11135	0.20000	0.25450
	84 p-Isopropyltoluene	119	11.496	11.500	(1.001)	25189	0.20000	0.21367
	85 1,4-Dichlorobenzene	146	11.521	11.518	(1.003)	10209	0.20000	0.25085
	86 1,2-Dichlorobenzene	146	12.068	12.078	(1.051)	7193	0.20000	0.22284
	87 n-Butylbenzene	91	12.141	12.139	(1.057)	24432	0.20000	0.23172
	89 1,2,4-Trichlorobenzene	180	14.295	14.292	(1.245)	5661	0.20000	0.28936
	90 Hexachlorobutadiene	225	14.526	14.524	(1.265)	4335	0.20000	0.23627
	91 Napthalene	128	14.550	14.542	(1.267)	4606	0.20000	0.22450
	92 1,2,3-Trichlorobenzene	180	14.818	14.816	(1.290)	3736	0.20000	0.28989
M	93 *1,4-dichloro-2-butene(total)	53				507	0.20000	2.2861

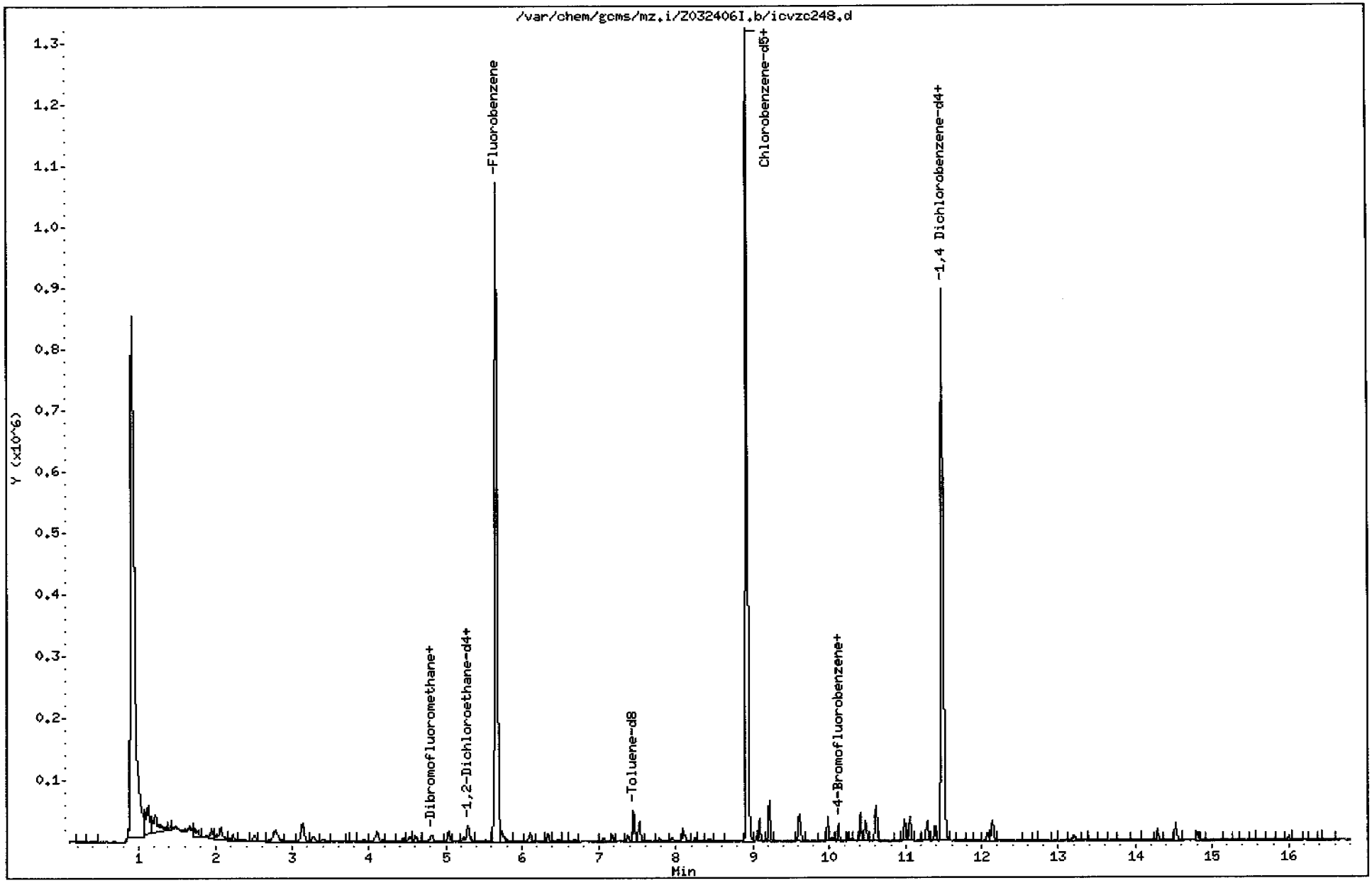
QC Flag Legend

M - Compound response manually integrated.

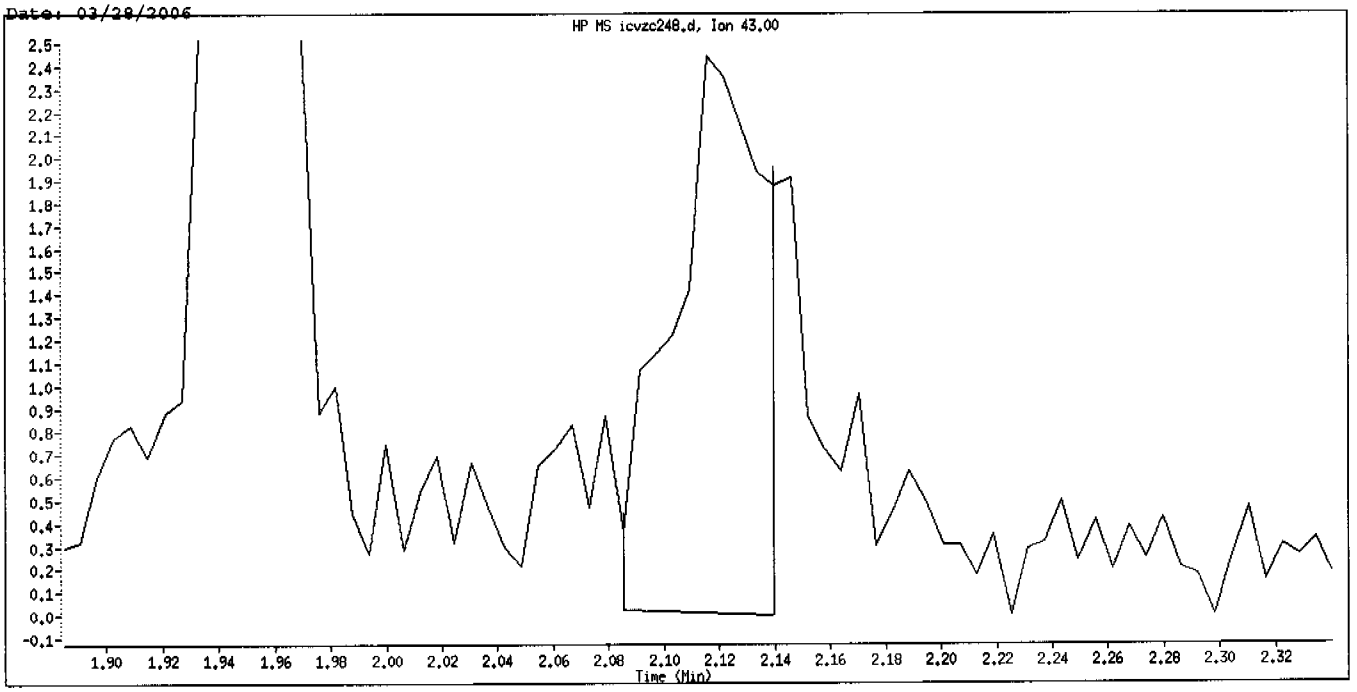
Data File: /var/chem/gcms/mz.i/Z032406I.b/icvzc248.d
Date : 24-MAR-2006 13:51
Client ID: STD0.20
Sample Info: ICVZC248,1,1,8,,STD0.20

Instrument: mz.i
Operator: 22980
Column diameter: 0.18

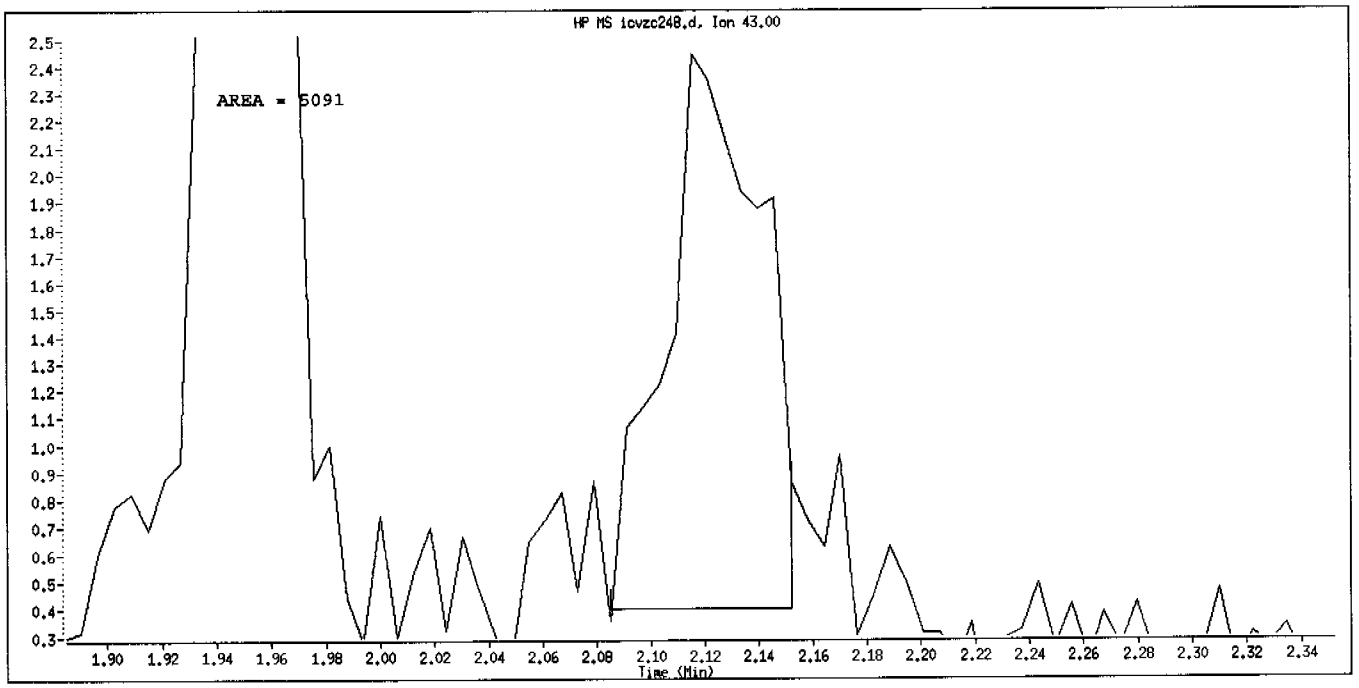
Column phase: J+W 624



Data File Name: icvzc248.d
Inj. Date and Time: 24-MAR-2006 13:51
Instrument ID: mz.i
Client ID: STD0.20
Compound Name: Acetone
CAS #: 67-64-1
Report Date: 03/28/2006



Original Integration

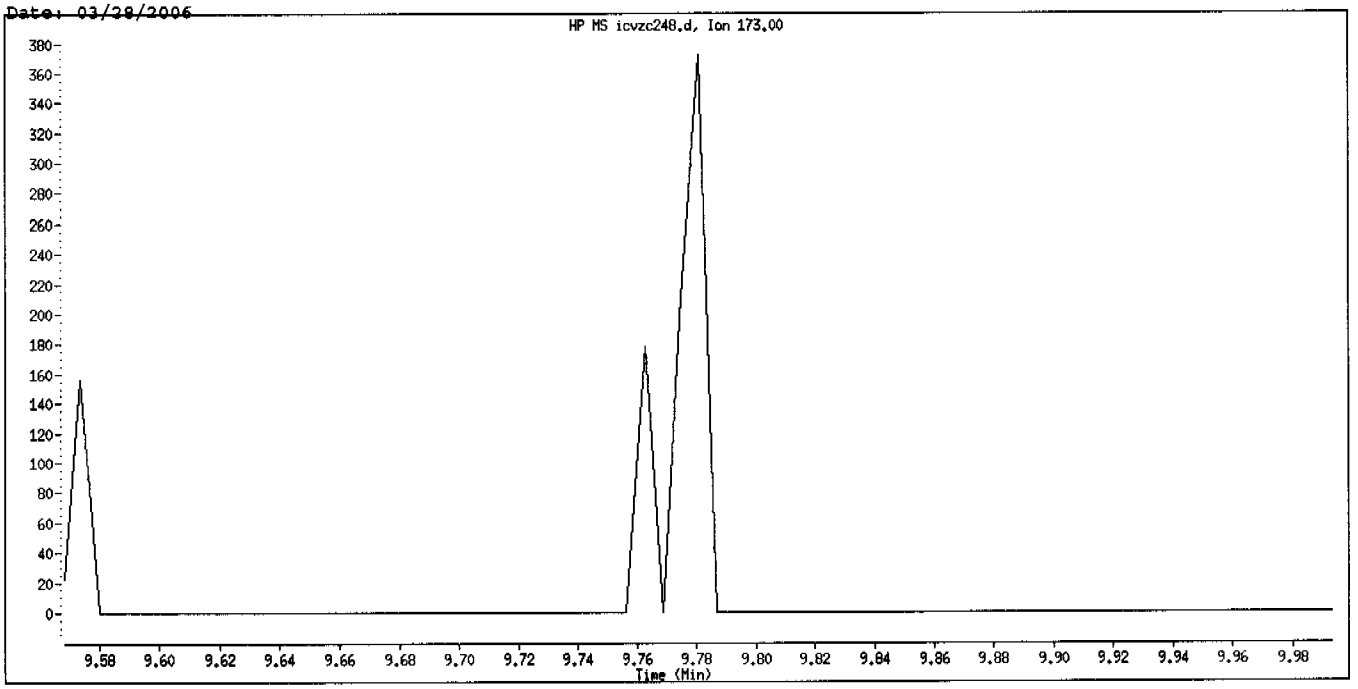


Manual Integration

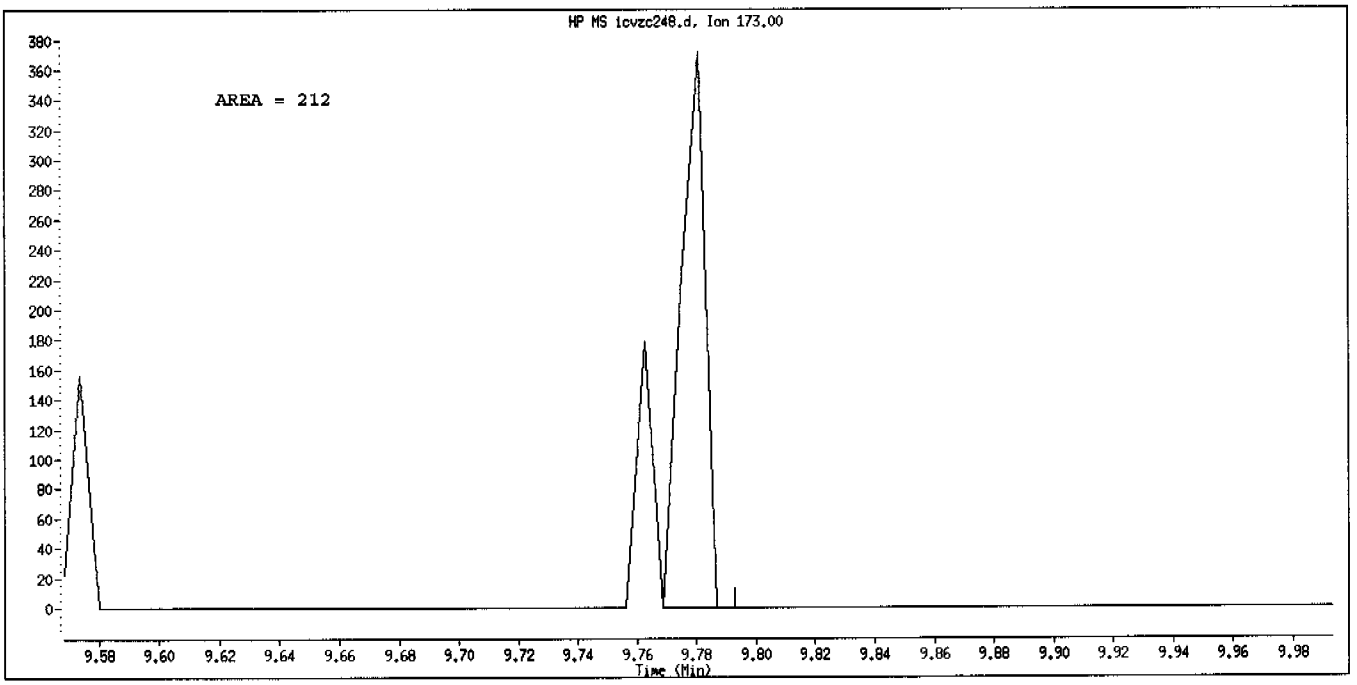
Manually Integrated By: gosss
Manual Integration Reason: Splitting a peak

3/28/06

Data File Name: icvzc248.d
Inj. Date and Time: 24-MAR-2006 13:51
Instrument ID: mz.i
Client ID: STD0.20
Compound Name: Bromoform (spcc)
CAS #: 75-25-2
Report Date: 03/28/2006



Original Integration



Manual Integration

Manually Integrated By: gosss
Manual Integration Reason: Analyte not Identified by the Data System

3/28/06

Data File: /var/chem/gcms/mz.i/Z032406I.b/icvzc247.d
Report Date: 28-Mar-2006 11:30

STL Knoxville

Volatile Organics by GC/MS

Data file : /var/chem/gcms/mz.i/Z032406I.b/icvzc247.d
Lab Smp Id: ICVZC247 Client Smp ID: STD0.32
Inj Date : 24-MAR-2006 14:14
Operator : 22980 Inst ID: mz.i
Smp Info : ICVZC247,1,1,7,,STD0.32
Misc Info : Z032406I,8260B_LM,
Comment : Volatile Organics by GC/MS
Method : /var/chem/gcms/mz.i/Z032406I.b/8260B_LM.m
Meth Date : 28-Mar-2006 11:30 gosss Quant Type: ISTD
Cal Date : 24-MAR-2006 14:14 Cal File: icvzc247.d
Als bottle: 5 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50
Processing Host: qmidhp01

Concentration Formula: Amt * DF * Uf*Vt/(Vo*1000) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Unit Correction factor
Vt	25000.00000	Sample Volume Purged
Vo	25.00000	Sample Volume Used

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
*	1 Fluorobenzene	96	5.666	5.666	(1.000)	965258	10.0000	
*	2 Chlorobenzene-d5	119	8.933	8.927	(1.000)	174630	10.0000	
*	3 1,4 Dichlorobenzene-d4	152	11.482	11.488	(1.000)	209010	10.0000	
$	4 Dibromofluoromethane	113	4.821	4.826	(0.851)	7280	0.32000	0.47068
$	5 1,2-Dichloroethane-d4	65	5.228	5.228	(0.923)	6511	0.32000	0.48680
$	6 Toluene-d8	98	7.455	7.455	(0.835)	36345	0.32000	0.47368
$	7 4-Bromofluorobenzene	95	10.119	10.119	(0.881)	10705	0.32000	0.50786
M	8 1,2-Dichloroethene (total)	96				15352	0.32000	0.60264
M	9 Xylene (total)	106				36639	0.32000	0.88103
	10 Dichlorodifluoromethane	85	1.012	1.012	(0.179)	7312	0.32000	0.31033
	11 Chloromethane (spcc)	50	1.128	1.128	(0.199)	39346	0.32000	0.15200
	12 Vinyl Chloride (ccc)	62	1.195	1.195	(0.211)	10698	0.32000	0.28139
	13 *1,3-Butadiene	39	1.219	1.219	(0.215)	11280	0.32000	0.32902
	15 Bromomethane	94	1.408	1.414	(0.248)	3430	0.32000	1.1674

Data File: /var/chem/gcms/mz.i/Z032406I.b/icvzc247.d
Report Date: 28-Mar-2006 11:30

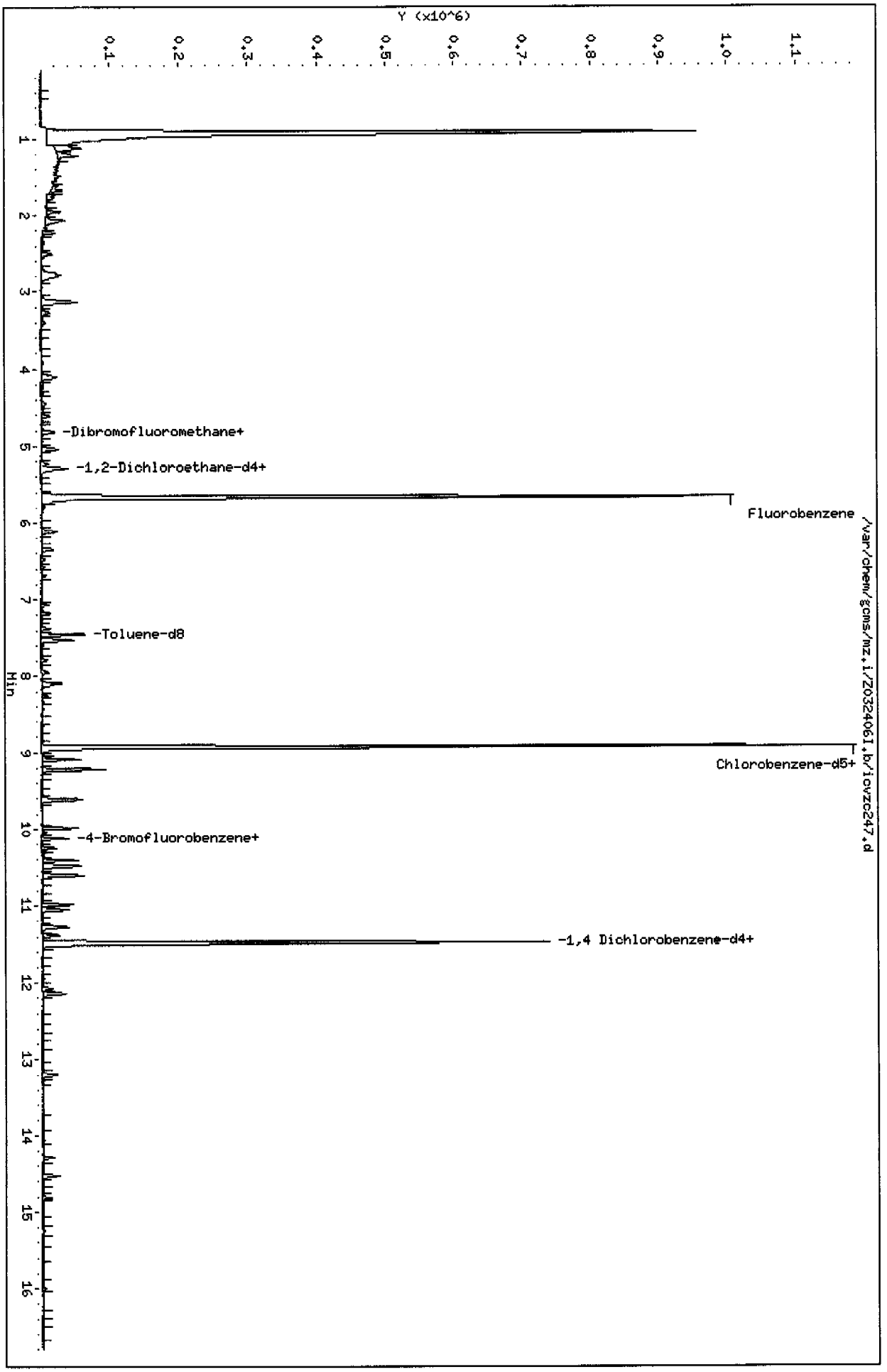
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
16	Chloroethane	64	1.487	1.481	(0.262)	5969	0.32000	0.33157
17	*Vinyl Bromide	106	1.615	1.614	(0.285)	4327	0.32000	0.26905
18	Trichlorofluoromethane	101	1.669	1.669	(0.295)	8492	0.32000	0.28783
19	*2-Chloropropane	43	1.949	1.949	(0.344)	19719	0.32000	0.30881
20	1,1-Dichloroethene (ccc)	96	2.071	2.065	(0.365)	6310	0.32000	0.30078
21	*Freon 113	151	2.083	2.083	(0.368)	4387	0.32000	0.26861
22	Acetone	43	2.126	2.125	(0.375)	3369	1.28000	3.8289
23	*Iodomethane	142	2.174	2.180	(0.384)	4891	0.32000	0.71675
24	Carbon Disulfide	76	2.235	2.229	(0.394)	23882	0.32000	0.32250
26	*Acetonitrile	40	2.363	2.369	(0.417)	2058	0.32000	4.7858
27	Methylene Chloride	84	2.509	2.503	(0.443)	5508	0.32000	0.34119
29	*Acrylonitrile	53	2.758	2.758	(0.487)	18122	66.4000	5.0277
30	trans-1,2-Dichloroethene	96	2.795	2.795	(0.493)	8061	0.32000	0.30438
31	*MTBE	73	2.825	2.819	(0.499)	6471	0.32000	0.27857
32	*Hexane	57	3.142	3.135	(0.554)	40562	0.64000	0.59780
33	1,1-Dichloroethane (spcc)	63	3.276	3.275	(0.578)	17364	0.32000	0.28366
34	*Vinyl Acetate	86	3.136	3.409	(0.553)	3843	0.64000	2.9862
35	2,2-Dichloropropane	77	4.091	4.096	(0.722)	7610	0.32000	0.24468
36	cis 1,2-Dichloroethene	96	4.115	4.115	(0.726)	7291	0.32000	0.29826
37	2-Butanone	43	4.182	4.169	(0.738)	5464	1.28000	1.4939
38	Bromochloromethane	128	4.456	4.449	(0.786)	1549	0.32000	0.23045
39	*THF	42	4.529	4.528	(0.799)	3005	1.28000	1.3121
40	Chloroform (ccc)	83	4.608	4.607	(0.813)	10099	0.32000	0.28957
41	1,1,1-Trichloroethane	97	4.815	4.814	(0.850)	8417	0.32000	0.27267
42	Carbon Tetrachloride	117	5.034	5.039	(0.888)	3974	0.32000	0.49367
43	1,1-Dichloropropene	75	5.034	5.039	(0.888)	9841	0.32000	0.29751
44	Benzene	78	5.289	5.295	(0.933)	31392	0.32000	0.32978
45	1,2-Dichloroethane	62	5.326	5.325	(0.940)	5406	0.32000	0.26819
46	Trichloroethene	130	6.104	6.110	(1.077)	7970	0.32000	0.29765
47	1,2-Dichloropropane (ccc)	63	6.348	6.341	(1.120)	7492	0.32000	0.28807
49	Dibromomethane	93	6.469	6.469	(1.142)	1446	0.32000	0.26699
50	Bromodichloromethane	83	6.682	6.688	(1.179)	3188	0.32000	0.91068
51	*2-Chloroethylvinylether	63	7.066	7.065	(1.247)	3529	0.64000	0.59786
52	cis-1,3-Dichloropropene	75	7.181	7.181	(1.267)	6077	0.32000	0.28776
53	4-Methyl-2-pentanone	43	7.376	7.375	(1.302)	9399	1.28000	1.1150
54	Toluene (ccc)	91	7.522	7.528	(0.842)	29904	0.32000	0.30090
55	trans-1,3-Dichloropropene	75	7.783	7.783	(0.871)	3165	0.32000	0.82454
56	*Ethyl Methacrylate	69	7.935	7.929	(0.888)	1499	0.32000	0.17656
57	1,1,2-Trichloroethane	97	7.966	7.959	(0.892)	2250	0.32000	0.27894
58	Tetrachloroethene	164	8.088	8.093	(0.905)	6857	0.32000	0.33264
59	1,3-Dichloropropane	76	8.118	8.118	(0.909)	4557	0.32000	0.32230
60	2-Hexanone	43	8.252	8.251	(0.924)	5778	1.28000	1.0692
61	Chlorodibromomethane	129	8.349	8.349	(0.935)	1051	0.32000	0.88540
62	1,2-Dibromoethane	107	8.434	8.434	(0.944)	2004	0.32000	0.27743
63	Chlorobenzene (spcc)	112	8.957	8.957	(1.003)	15953	0.32000	0.28760
64	1,1,1,2-Tetrachloroethane	131	9.055	9.054	(1.014)	2102	0.32000	0.46843
65	Ethylbenzene (ccc)	106	9.091	9.091	(1.018)	10254	0.32000	0.28689

Data File: /var/chem/gcms/mz.i/Z032406I.b/icvzc247.d
Report Date: 28-Mar-2006 11:30

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
	66 m&p-Xylene	106	9.219	9.219	(1.032)	25829	0.64000	0.59778
	67 o-Xylene	106	9.602	9.608	(1.075)	10810	0.32000	0.28325
	68 Styrene	104	9.621	9.620	(1.077)	16099	0.32000	0.30045
	69 Bromoform (spcc)	173	9.773	9.778	(1.094)	342	0.32000	1.4783(M)
	70 Isopropylbenzene	105	9.992	9.991	(1.118)	32657	0.32000	0.29759
	71 *cis-1,4-dichloro-2-butene	88	10.119	10.052	(1.133)	407	0.32000	1.8141
	72 Bromobenzene	156	10.253	10.253	(1.148)	4674	0.32000	0.28659
	73 1,1,2,2-Tetrachloroethane(sp)	83	10.290	10.289	(1.152)	1677	0.32000	0.27870
	74 1,2,3-Trichloropropane	110	10.308	10.314	(0.898)	552	0.32000	0.30675
	75 *trans-1,4-dichloro-2-butene	53	10.338	10.350	(0.900)	644	0.32000	0.71335
	76 n-Propylbenzene	91	10.405	10.405	(0.906)	36069	0.32000	0.28511
	77 2-Chlorotoluene	91	10.472	10.472	(0.912)	20110	0.32000	0.29973
	78 1,3,5-Trimethylbenzene	105	10.612	10.612	(0.924)	24965	0.32000	0.29328
	79 4-Chlorotoluene	91	10.594	10.594	(0.923)	20641	0.32000	0.28960
	80 tert-Butylbenzene	119	10.989	10.989	(0.957)	20923	0.32000	0.27452
	81 1,2,4-Trimethylbenzene	105	11.056	11.050	(0.963)	23128	0.32000	0.28918
	82 sec-Butylbenzene	105	11.275	11.281	(0.982)	30627	0.32000	0.27261
	83 1,3-Dichlorobenzene	146	11.391	11.384	(0.992)	11115	0.32000	0.30380
	84 p-Isopropyltoluene	119	11.500	11.500	(1.002)	28702	0.32000	0.29116
	85 1,4-Dichlorobenzene	146	11.519	11.518	(1.003)	10377	0.32000	0.30492
	86 1,2-Dichlorobenzene	146	12.072	12.078	(1.051)	7930	0.32000	0.29379
	87 n-Butylbenzene	91	12.139	12.139	(1.057)	26329	0.32000	0.29862
	89 1,2,4-Trichlorobenzene	180	14.293	14.292	(1.245)	5022	0.32000	0.30698
	90 Hexachlorobutadiene	225	14.524	14.524	(1.265)	4332	0.32000	0.28236
	91 Napthalene	128	14.548	14.542	(1.267)	5013	0.32000	0.29220
	92 1,2,3-Trichlorobenzene	180	14.816	14.816	(1.290)	3260	0.32000	0.30250
M	93 *1,4-dichloro-2-butene(total)	53				1051	0.32000	2.5274

QC Flag Legend

M - Compound response manually integrated.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Instrument: mz.i
Operator: 22980
Column diameter: 0.18
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-1,2-Dichloroethane-d4+
Fluorobenzene
-Toluene-d8
Chlorobenzene-d5+
-4-Bromofluorobenzene+
-1,4 Dichlorobenzene-d4+
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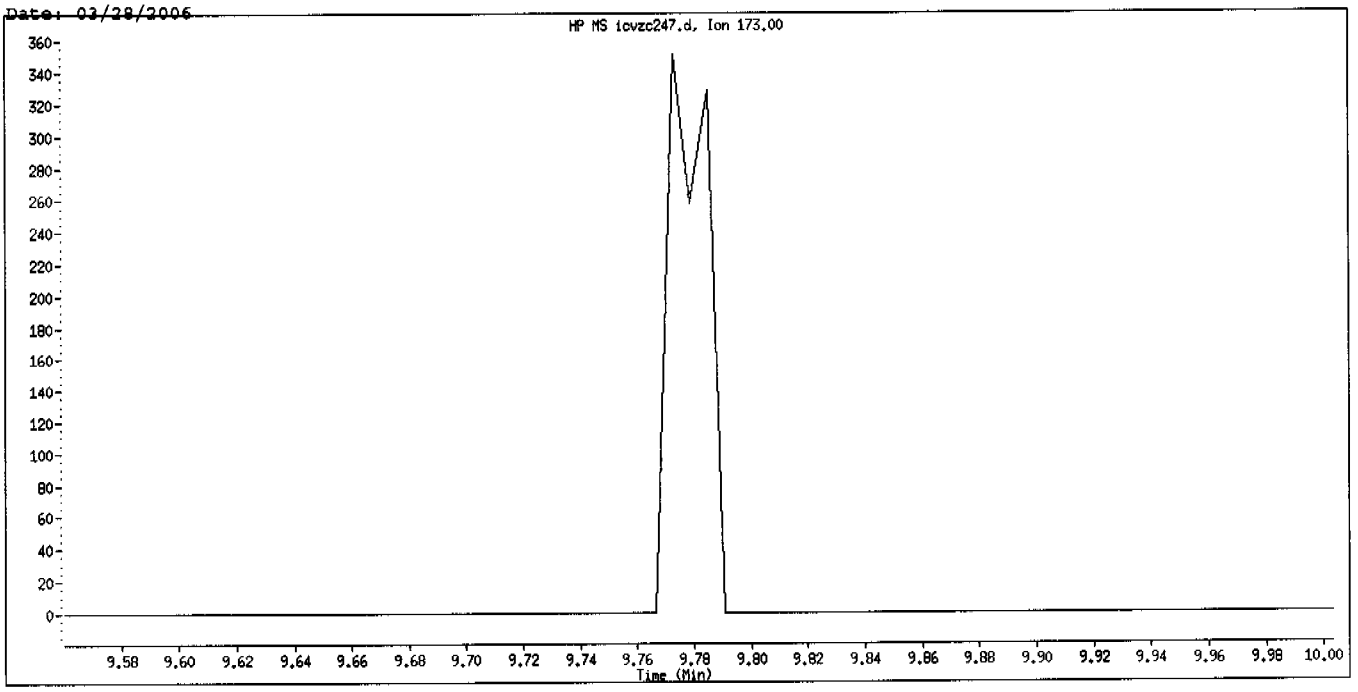
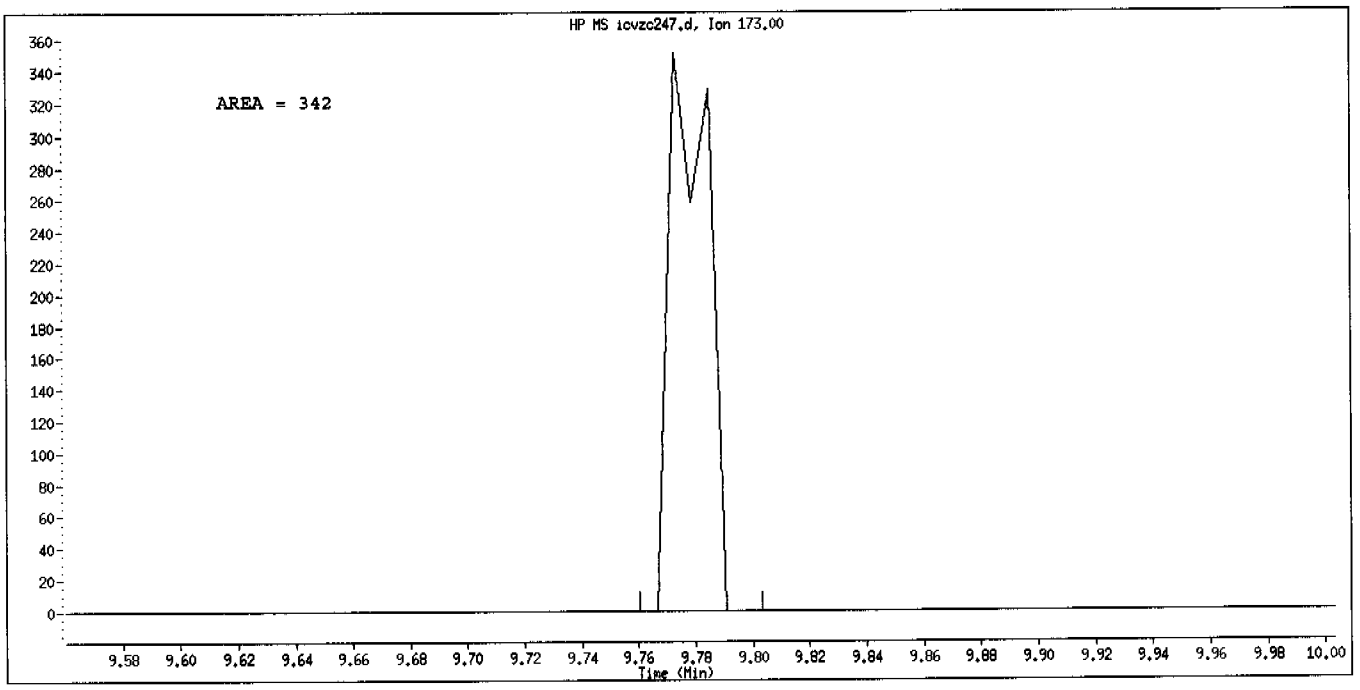
Min

Data File Name: icvzc247.d
Inj. Date and Time: 24-MAR-2006 14:14
Instrument ID: mz.i
Client ID: STD0.32
Compound Name: Bromoform (spcc)
CAS #: 75-25-2
Report Date: 03/28/2006



Original Integration



Manual Integration

Manually Integrated By: gosss
Manual Integration Reason: Unknown

3/28/06

Data File: /var/chem/gcms/mz.i/Z032406I.b/icvzc241.d
Report Date: 24-Mar-2006 17:29

STL Knoxville

Volatile Organics by GC/MS

Data file : /var/chem/gcms/mz.i/Z032406I.b/icvzc241.d
Lab Smp Id: ICVZC241 Client Smp ID: STD01
Inj Date : 24-MAR-2006 14:38
Operator : 22980 Inst ID: mz.i
Smp Info : ICVZC241,1,1,1,,STD01
Misc Info : Z032406I,8260B_LM,
Comment : Volatile Organics by GC/MS
Method : /var/chem/gcms/mz.i/Z032406I.b/8260B_LM.m
Meth Date : 24-Mar-2006 17:26 tillerm Quant Type: ISTD
Cal Date : 24-MAR-2006 14:38 Cal File: icvzc241.d
Als bottle: 6 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Uf*Vt/(Vo*1000) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Unit Correction factor
Vt	25000.00000	Sample Volume Purged
Vo	25.00000	Sample Volume Used

Cpnd Variable Local Compound Variable

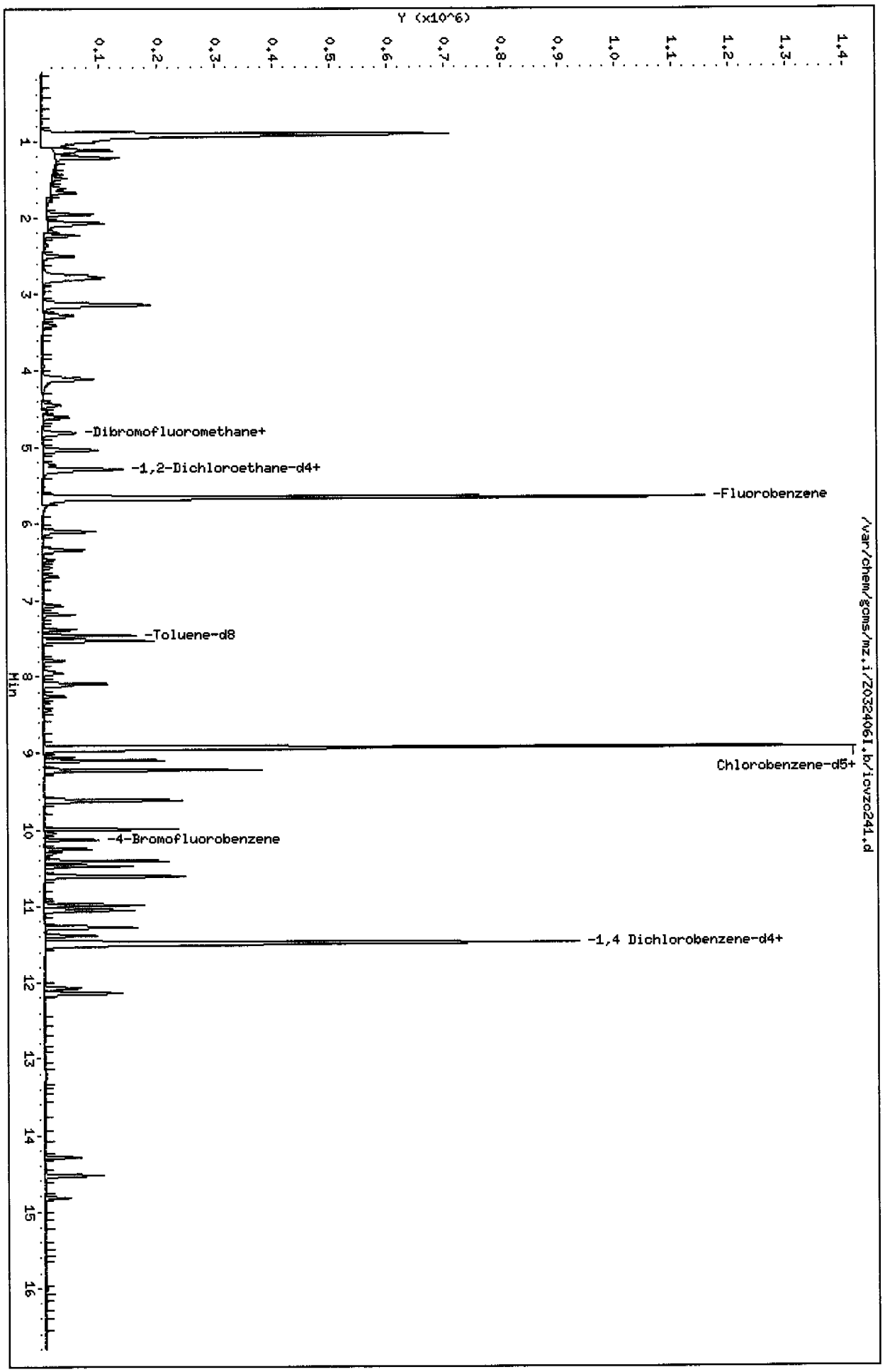
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
*	1 Fluorobenzene	96	5.669	5.666	(1.000)	1123931	10.0000	
*	2 Chlorobenzene-d5	119	8.929	8.927	(1.000)	203397	10.0000	
*	3 1,4 Dichlorobenzene-d4	152	11.485	11.488	(1.000)	248522	10.0000	
$	4 Dibromofluoromethane	113	4.823	4.826	(0.851)	17429	1.00000	0.96779
$	5 1,2-Dichloroethane-d4	65	5.231	5.228	(0.923)	15737	1.00000	1.0105
$	6 Toluene-d8	98	7.457	7.455	(0.835)	88488	1.00000	0.99014
$	7 4-Bromofluorobenzene	95	10.122	10.119	(0.881)	26441	1.00000	1.0550
M	8 1,2-Dichloroethene (total)	96				60061	2.00000	2.0248
M	9 Xylene (total)	106				147706	3.00000	3.0140
	10 Dichlorodifluoromethane	85	1.015	1.012	(0.179)	25499	1.00000	0.93790
	11 Chloromethane (spcc)	50	1.124	1.128	(0.198)	106980	1.00000	1.2994
	12 Vinyl Chloride (ccc)	62	1.191	1.195	(0.210)	45420	1.00000	1.0234
	13 *1,3-Butadiene	39	1.222	1.219	(0.216)	42141	1.00000	1.0355
	15 Bromomethane	94	1.410	1.414	(0.249)	5472	1.00000	0.65680
	16 Chloroethane	64	1.483	1.481	(0.262)	21453	1.00000	1.0115

Data File: /var/chem/gcms/mz.i/Z032406I.b/icvzc241.d
Report Date: 24-Mar-2006 17:29

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
17	*Vinyl Bromide	106	1.617	1.614	(0.285)	18727	1.00000	1.0226
18	Trichlorofluoromethane	101	1.666	1.669	(0.294)	33698	1.00000	0.98677
19	*2-Chloropropane	43	1.952	1.949	(0.344)	70896	1.00000	0.94396
20	1,1-Dichloroethene (ccc)	96	2.067	2.065	(0.365)	24777	1.00000	1.0066
21	*Freon 113	151	2.086	2.083	(0.368)	18936	1.00000	0.97971
22	Acetone	43	2.128	2.125	(0.375)	10079	4.00000	4.6035
23	*Iodomethane	142	2.183	2.180	(0.385)	18279	1.00000	0.79929
24	Carbon Disulfide	76	2.232	2.229	(0.394)	85083	1.00000	0.98182
26	*Acetonitrile	40	2.365	2.369	(0.417)	8616	20.0000	17.287
27	Methylene Chloride	84	2.505	2.503	(0.442)	18426	1.00000	0.97664
28	*t-butanol	59	2.700	2.697	(0.476)	12778	50.0000	37.709
29	*Acrylonitrile	53	2.755	2.758	(0.486)	84286	20.0000	19.981
30	trans-1,2-Dichloroethene	96	2.791	2.795	(0.492)	31410	1.00000	1.0180
31	*MTBE	73	2.822	2.819	(0.498)	26085	1.00000	0.97217
32	*Hexane	57	3.132	3.135	(0.552)	150847	2.00000	1.8951
33	1,1-Dichloroethane (spcc)	63	3.278	3.275	(0.578)	72584	1.00000	1.0219
34	*Vinyl Acetate	86	3.412	3.409	(0.602)	1846	2.00000	1.3682
35	2,2-Dichloropropane	77	4.105	4.096	(0.724)	33462	1.00000	0.93981
36	cis 1,2-Dichloroethene	96	4.117	4.115	(0.726)	28651	1.00000	1.0068
37	2-Butanone	43	4.178	4.169	(0.737)	17502	4.00000	4.1166
38	Bromochloromethane	128	4.452	4.449	(0.785)	8875	1.00000	1.1337
39	*THF	42	4.519	4.528	(0.797)	11056	4.00000	4.1474
40	Chloroform (ccc)	83	4.616	4.607	(0.814)	38775	1.00000	0.96245
41	1,1,1-Trichloroethane	97	4.811	4.814	(0.849)	31447	1.00000	0.89511
42	Carbon Tetrachloride	117	5.030	5.039	(0.887)	14271	1.00000	0.68582
43	1,1-Dichloropropene	75	5.042	5.039	(0.889)	38506	1.00000	0.99985
44	Benzene	78	5.292	5.295	(0.933)	112507	1.00000	1.0113
45	1,2-Dichloroethane	62	5.328	5.325	(0.940)	23484	1.00000	1.0044
46	Trichloroethene	130	6.113	6.110	(1.078)	29935	1.00000	0.95762
47	1,2-Dichloropropane (ccc)	63	6.344	6.341	(1.119)	30093	1.00000	0.99215
48	*Methyl Methacrylate	41	6.569	6.572	(1.159)	8063	1.00000	0.82691
49	Dibromomethane	93	6.466	6.469	(1.141)	6225	1.00000	0.99082
50	Bromodichloromethane	83	6.691	6.688	(1.180)	13084	1.00000	0.80016
51	*2-Chloroethylvinylether	63	7.062	7.065	(1.246)	13319	2.00000	1.9312
52	cis-1,3-Dichloropropene	75	7.184	7.181	(1.267)	22888	1.00000	0.94110
53	4-Methyl-2-pentanone	43	7.378	7.375	(1.302)	38268	4.00000	3.8820
54	Toluene (ccc)	91	7.524	7.528	(0.843)	115159	1.00000	0.99474
55	trans-1,3-Dichloropropene	75	7.780	7.783	(0.871)	13777	1.00000	0.90818
56	*Ethyl Methacrylate	69	7.926	7.929	(0.888)	7559	1.00000	0.78092
57	1,1,2-Trichloroethane	97	7.962	7.959	(0.892)	9610	1.00000	1.0261
58	Tetrachloroethene	164	8.096	8.093	(0.907)	24333	1.00000	1.0044
59	1,3-Dichloropropane	76	8.120	8.118	(0.909)	16015	1.00000	0.97274
60	2-Hexanone	43	8.254	8.251	(0.924)	23037	4.00000	3.6717
61	Chlorodibromomethane	129	8.345	8.349	(0.935)	4945	1.00000	0.64215
62	1,2-Dibromoethane	107	8.437	8.434	(0.945)	8227	1.00000	0.98276
63	Chlorobenzene (spcc)	112	8.960	8.957	(1.003)	65128	1.00000	1.0064
64	1,1,1,2-Tetrachloroethane	131	9.051	9.054	(1.014)	7918	1.00000	0.66612

Data File: /var/chem/gcms/mz.i/Z032406I.b/icvzc241.d
Report Date: 24-Mar-2006 17:29

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
65	Ethylbenzene (ccc)	106	9.094	9.091	(1.018)	42436	1.00000	1.0162
66	m&p-Xylene	106	9.221	9.219	(1.033)	102791	2.00000	2.0068
67	o-Xylene	106	9.611	9.608	(1.076)	44914	1.00000	1.0071
68	Styrene	104	9.623	9.620	(1.078)	63605	1.00000	1.0149
69	Bromoform (spcc)	173	9.775	9.778	(1.095)	902	1.00000	0.35523
70	Isopropylbenzene	105	9.988	9.991	(1.119)	128293	1.00000	0.99981
71	*cis-1,4-dichloro-2-butene	88	10.055	10.052	(1.126)	738	1.00000	0.59045
72	Bromobenzene	156	10.256	10.253	(1.149)	18785	1.00000	0.98930
73	1,1,2,2-Tetrachloroethane(sp)	83	10.292	10.289	(1.153)	6971	1.00000	1.0059
74	1,2,3-Trichloropropane	110	10.310	10.314	(0.898)	2303	1.00000	1.0776
75	*trans-1,4-dichloro-2-butene	53	10.341	10.350	(0.900)	2278	1.00000	0.83610
76	n-Propylbenzene	91	10.408	10.405	(0.906)	148242	1.00000	0.98400
77	2-Chlorotoluene	91	10.475	10.472	(0.912)	78081	1.00000	0.98039
78	1,3,5-Trimethylbenzene	105	10.615	10.612	(0.924)	100401	1.00000	0.98668
79	4-Chlorotoluene	91	10.596	10.594	(0.923)	81359	1.00000	0.95637
80	tert-Butylbenzene	119	10.992	10.989	(0.957)	90632	1.00000	1.0025
81	1,2,4-Trimethylbenzene	105	11.053	11.050	(0.962)	92297	1.00000	0.97282
82	sec-Butylbenzene	105	11.278	11.281	(0.982)	131809	1.00000	0.99189
83	1,3-Dichlorobenzene	146	11.387	11.384	(0.992)	42599	1.00000	0.98107
84	p-Isopropyltoluene	119	11.503	11.500	(1.002)	119215	1.00000	1.0129
85	1,4-Dichlorobenzene	146	11.515	11.518	(1.003)	43055	1.00000	1.0534
86	1,2-Dichlorobenzene	146	12.075	12.078	(1.051)	30579	1.00000	0.95627
87	n-Butylbenzene	91	12.142	12.139	(1.057)	101029	1.00000	0.97041
88	1,2-Dibromo-3-chloropropane	157	13.255	13.258	(1.154)	575	1.00000	0.63377
89	1,2,4-Trichlorobenzene	180	14.295	14.292	(1.245)	18479	1.00000	0.94834
90	Hexachlorobutadiene	225	14.526	14.524	(1.265)	16825	1.00000	0.91446
91	Napthalene	128	14.544	14.542	(1.266)	19246	1.00000	0.95225
92	1,2,3-Trichlorobenzene	180	14.818	14.816	(1.290)	11120	1.00000	0.87211
M 93	*1,4-dichloro-2-butene(total)	53				3017	2.00000	1.4266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Purge Volume: 25.0
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Instrument: mz.i
Operator: 22980
Column diameter: 0.18
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-1,2-Dichloroethane-d4+
-Fluorobenzene
-Toluene-d8
Chlorobenzene-d5+
-4-Bromofluorobenzene
-1,4 Dichlorobenzene-d4+

Data File: /var/chem/gcms/mz.i/Z032406I.b/icvzc242.d
Report Date: 24-Mar-2006 17:29

STL Knoxville

Volatile Organics by GC/MS

Data file : /var/chem/gcms/mz.i/Z032406I.b/icvzc242.d
Lab Smp Id: ICVZC242 Client Smp ID: STD02
Inj Date : 24-MAR-2006 15:01
Operator : 22980 Inst ID: mz.i
Smp Info : ICVZC242,1,1,2,,STD02
Misc Info : Z032406I,8260B_LM,
Comment : Volatile Organics by GC/MS
Method : /var/chem/gcms/mz.i/Z032406I.b/8260B_LM.m
Meth Date : 24-Mar-2006 17:26 tillerm Quant Type: ISTD
Cal Date : 24-MAR-2006 15:01 Cal File: icvzc242.d
Als bottle: 7 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Uf*Vt/(Vo*1000) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Unit Correction factor
Vt	25000.00000	Sample Volume Purged
Vo	25.00000	Sample Volume Used

Cpnd Variable Local Compound Variable

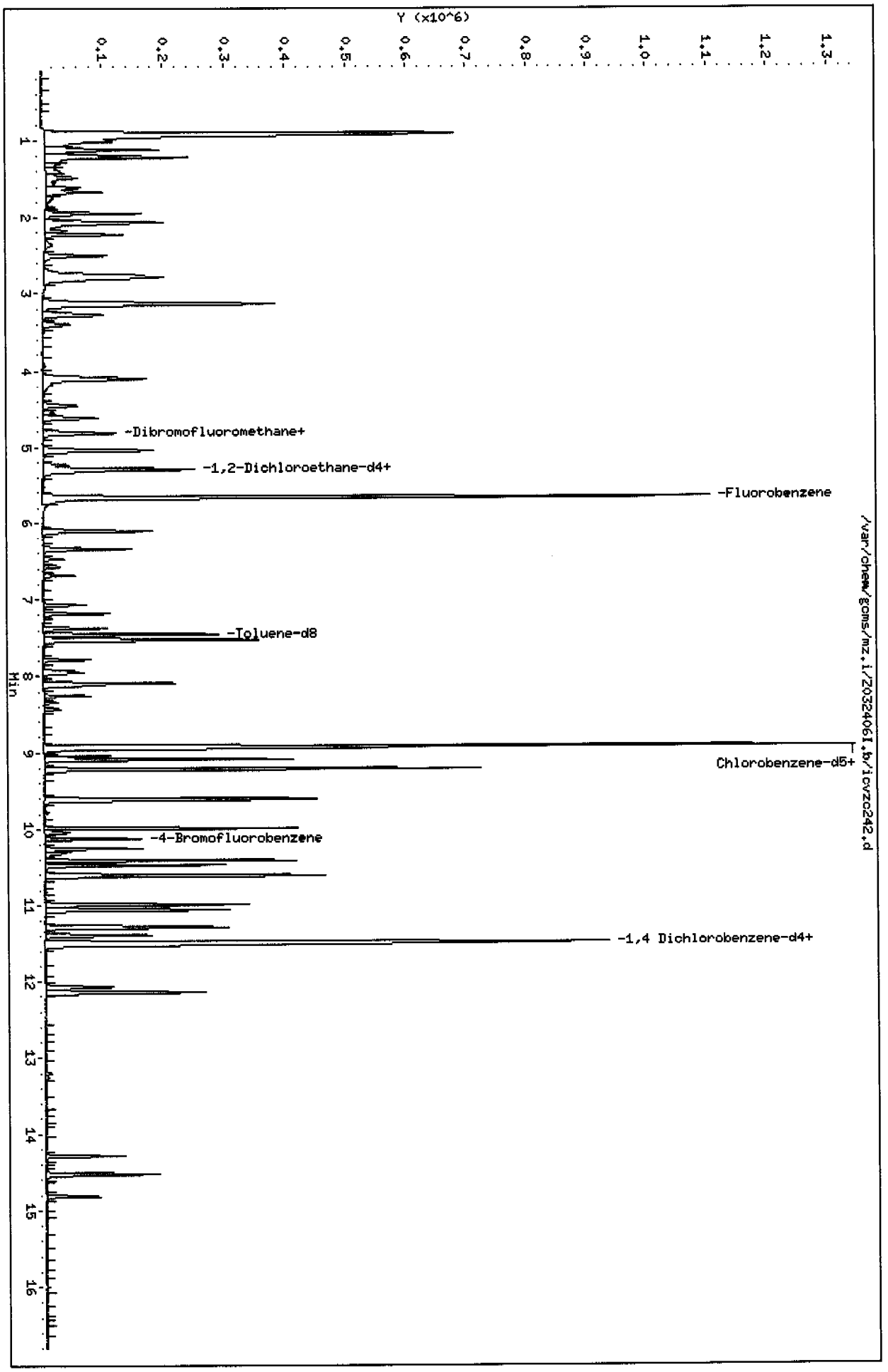
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
*	1 Fluorobenzene	96	5.667	5.666	(1.000)	1042279	10.0000	
*	2 Chlorobenzene-d5	119	8.928	8.927	(1.000)	191654	10.0000	
*	3 1,4 Dichlorobenzene-d4	152	11.483	11.488	(1.000)	232924	10.0000	
$	4 Dibromofluoromethane	113	4.822	4.826	(0.851)	30198	2.00000	1.8082
$	5 1,2-Dichloroethane-d4	65	5.235	5.228	(0.924)	27016	2.00000	1.8706
$	6 Toluene-d8	98	7.456	7.455	(0.835)	158677	2.00000	1.8843
$	7 4-Bromofluorobenzene	95	10.120	10.119	(0.881)	44588	2.00000	1.8982
M	8 1,2-Dichloroethene (total)	96				114162	4.00000	4.1456
M	9 Xylene (total)	106				288842	6.00000	6.2524
	10 Dichlorodifluoromethane	85	1.013	1.012	(0.179)	45631	2.00000	1.8099
	11 Chloromethane (spcc)	50	1.123	1.128	(0.198)	175396	2.00000	2.2972
	12 Vinyl Chloride (ccc)	62	1.196	1.195	(0.211)	83542	2.00000	2.0298
	13 *1,3-Butadiene	39	1.220	1.219	(0.215)	79900	2.00000	2.1172
	15 Bromomethane	94	1.397	1.414	(0.246)	10576	2.00000	1.3688
	16 Chloroethane	64	1.482	1.481	(0.261)	40877	2.00000	2.0783

Data File: /var/chem/gcms/mz.i/Z032406I.b/icvzc242.d
Report Date: 24-Mar-2006 17:29

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
17 *Vinyl Bromide	106	1.610	1.614	(0.284)	32629	2.00000	1.9214
18 Trichlorofluoromethane	101	1.670	1.669	(0.295)	63188	2.00000	1.9952
19 *2-Chloropropane	43	1.950	1.949	(0.344)	143068	2.00000	2.0541
20 1,1-Dichloroethene (ccc)	96	2.066	2.065	(0.365)	45086	2.00000	1.9752
21 *Freon 113	151	2.078	2.083	(0.367)	36456	2.00000	2.0338
22 Acetone	43	2.121	2.125	(0.374)	16702	8.00000	8.2259
23 *Iodomethane	142	2.181	2.180	(0.385)	36660	2.00000	1.7286
24 Carbon Disulfide	76	2.230	2.229	(0.394)	167705	2.00000	2.0868
26 *Acetonitrile	40	2.364	2.369	(0.417)	17578	40.0000	38.032
27 Methylene Chloride	84	2.510	2.503	(0.443)	35442	2.00000	2.0257
28 *t-butanol	59	2.699	2.697	(0.476)	25226	100.000	80.276
29 *Acrylonitrile	53	2.759	2.758	(0.487)	158917	40.0000	40.625
30 trans-1,2-Dichloroethene	96	2.790	2.795	(0.492)	61229	2.00000	2.1398
31 *MTBE	73	2.826	2.819	(0.499)	50021	2.00000	2.0103
32 *Hexane	57	3.137	3.135	(0.553)	302884	4.00000	4.1032
33 1,1-Dichloroethane (spcc)	63	3.276	3.275	(0.578)	136434	2.00000	2.0713
34 *Vinyl Acetate	86	3.398	3.409	(0.600)	4364	4.00000	3.4874
35 2,2-Dichloropropane	77	4.092	4.096	(0.722)	63942	2.00000	1.9366
36 cis 1,2-Dichloroethene	96	4.110	4.115	(0.725)	52933	2.00000	2.0059
37 2-Butanone	43	4.171	4.169	(0.736)	29763	8.00000	7.5488
38 Bromochloromethane	128	4.445	4.449	(0.784)	14500	2.00000	1.9972
39 *THF	42	4.536	4.528	(0.800)	19029	8.00000	7.6972
40 Chloroform (ccc)	83	4.615	4.607	(0.814)	77199	2.00000	2.0663
41 1,1,1-Trichloroethane	97	4.816	4.814	(0.850)	61867	2.00000	1.8989
42 Carbon Tetrachloride	117	5.035	5.039	(0.888)	29577	2.00000	1.5327
43 1,1-Dichloropropene	75	5.041	5.039	(0.889)	72633	2.00000	2.0338
44 Benzene	78	5.290	5.295	(0.933)	211893	2.00000	2.0539
45 1,2-Dichloroethane	62	5.327	5.325	(0.940)	45896	2.00000	2.1167
46 Trichloroethene	130	6.105	6.110	(1.077)	60600	2.00000	2.0904
47 1,2-Dichloropropane (ccc)	63	6.343	6.341	(1.119)	58691	2.00000	2.0866
48 *Methyl Methacrylate	41	6.574	6.572	(1.160)	16333	2.00000	1.8063
49 Dibromomethane	93	6.470	6.469	(1.142)	11936	2.00000	2.0487
50 Bromodichloromethane	83	6.689	6.688	(1.180)	28405	2.00000	1.8731
51 *2-Chloroethylvinylether	63	7.066	7.065	(1.247)	26217	4.00000	4.0990
52 cis-1,3-Dichloropropene	75	7.182	7.181	(1.267)	43032	2.00000	1.9080
53 4-Methyl-2-pentanone	43	7.377	7.375	(1.302)	73254	8.00000	8.0133
54 Toluene (ccc)	91	7.523	7.528	(0.843)	224013	2.00000	2.0536
55 trans-1,3-Dichloropropene	75	7.784	7.783	(0.872)	25501	2.00000	1.7840
56 *Ethyl Methacrylate	69	7.930	7.929	(0.888)	16245	2.00000	1.7809
57 1,1,2-Trichloroethane	97	7.955	7.959	(0.891)	17186	2.00000	1.9473
58 Tetrachloroethene	164	8.095	8.093	(0.907)	46062	2.00000	2.0178
59 1,3-Dichloropropane	76	8.119	8.118	(0.909)	31131	2.00000	2.0067
60 2-Hexanone	43	8.253	8.251	(0.924)	45569	8.00000	7.7079
61 Chlorodibromomethane	129	8.344	8.349	(0.935)	10189	2.00000	1.4040
62 1,2-Dibromoethane	107	8.435	8.434	(0.945)	16508	2.00000	2.0928
63 Chlorobenzene (spcc)	112	8.958	8.957	(1.003)	126301	2.00000	2.0712
64 1,1,1,2-Tetrachloroethane	131	9.050	9.054	(1.014)	17364	2.00000	1.5502

Data File: /var/chem/gcms/mz.i/Z032406I.b/icvzc242.d
Report Date: 24-Mar-2006 17:29

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
65	Ethylbenzene (ccc)	106	9.092	9.091	(1.018)	81220	2.00000	2.0640
66	m&p-Xylene	106	9.220	9.219	(1.033)	201864	4.00000	4.1826
67	o-Xylene	106	9.609	9.608	(1.076)	86977	2.00000	2.0698
68	Styrene	104	9.622	9.620	(1.078)	122418	2.00000	2.0729
69	Bromoform (spcc)	173	9.780	9.778	(1.095)	3151	2.00000	1.3166
70	Isopropylbenzene	105	9.987	9.991	(1.119)	242948	2.00000	2.0093
71	*cis-1,4-dichloro-2-butene	88	10.053	10.052	(1.126)	1185	2.00000	1.0057
72	Bromobenzene	156	10.254	10.253	(1.149)	37563	2.00000	2.0994
73	1,1,2,2-Tetrachloroethane(sp)	83	10.291	10.289	(1.153)	11797	2.00000	1.8064
74	1,2,3-Trichloropropane	110	10.315	10.314	(0.898)	4083	2.00000	2.0385
75	*trans-1,4-dichloro-2-butene	53	10.345	10.350	(0.901)	3994	2.00000	1.5640
76	n-Propylbenzene	91	10.406	10.405	(0.906)	284918	2.00000	2.0179
77	2-Chlorotoluene	91	10.473	10.472	(0.912)	153066	2.00000	2.0506
78	1,3,5-Trimethylbenzene	105	10.613	10.612	(0.924)	192126	2.00000	2.0145
79	4-Chlorotoluene	91	10.595	10.594	(0.923)	162121	2.00000	2.0333
80	tert-Butylbenzene	119	10.990	10.989	(0.957)	171218	2.00000	2.0207
81	1,2,4-Trimethylbenzene	105	11.051	11.050	(0.962)	181710	2.00000	2.0435
82	sec-Butylbenzene	105	11.276	11.281	(0.982)	254436	2.00000	2.0429
83	1,3-Dichlorobenzene	146	11.386	11.384	(0.992)	81202	2.00000	1.9954
84	p-Isopropyltoluene	119	11.501	11.500	(1.002)	219108	2.00000	1.9863
85	1,4-Dichlorobenzene	146	11.514	11.518	(1.003)	78049	2.00000	2.0375
86	1,2-Dichlorobenzene	146	12.079	12.078	(1.052)	58473	2.00000	1.9510
87	n-Butylbenzene	91	12.140	12.139	(1.057)	193408	2.00000	1.9821
88	1,2-Dibromo-3-chloropropane	157	13.253	13.258	(1.154)	1118	2.00000	1.3150
89	1,2,4-Trichlorobenzene	180	14.294	14.292	(1.245)	36423	2.00000	1.9943
90	Hexachlorobutadiene	225	14.525	14.524	(1.265)	34860	2.00000	2.0216
91	Napthalene	128	14.543	14.542	(1.266)	36283	2.00000	1.9154
92	1,2,3-Trichlorobenzene	180	14.817	14.816	(1.290)	24284	2.00000	2.0321
M 93	*1,4-dichloro-2-butene(total)	53				5179	4.00000	2.5697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Date : 24-MAR-2006 15:01
Client ID: STD02
Sample Info: ICVZC242,1,1,2,,STD02
Purge Volume: 25.0
Column phase: J+W 624
Instrument: mz.i
Operator: 22980
Column diameter: 0.18
Y (x10^6)
Min
~Dibromofluoromethane+
-1,2-Dichloroethane-d4+
-Fluorobenzene
-Toluene-d8
Chlorobenzene-d5+
-4-Bromofluorobenzene
-1,4 Dichlorobenzene-d4+
/var/chem/gcms/mz.i/20324061.b/icvzc242.d

Data File: /var/chem/gcms/mz.i/Z032406I.b/icvzc243.d
Report Date: 24-Mar-2006 17:29

STL Knoxville

Volatile Organics by GC/MS

Data file : /var/chem/gcms/mz.i/Z032406I.b/icvzc243.d
Lab Smp Id: ICVZC243 Client Smp ID: STD10
Inj Date : 24-MAR-2006 15:24
Operator : 22980 Inst ID: mz.i
Smp Info : ICVZC243,1,1,3,,STD10
Misc Info : Z032406I,8260B_LM,
Comment : Volatile Organics by GC/MS
Method : /var/chem/gcms/mz.i/Z032406I.b/8260B_LM.m
Meth Date : 24-Mar-2006 17:26 tillerm Quant Type: ISTD
Cal Date : 24-MAR-2006 15:24 Cal File: icvzc243.d
Als bottle: 1 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Uf*Vt/(Vo*1000) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Unit Correction factor
Vt	25000.00000	Sample Volume Purged
Vo	25.00000	Sample Volume Used

Cpnd Variable Local Compound Variable

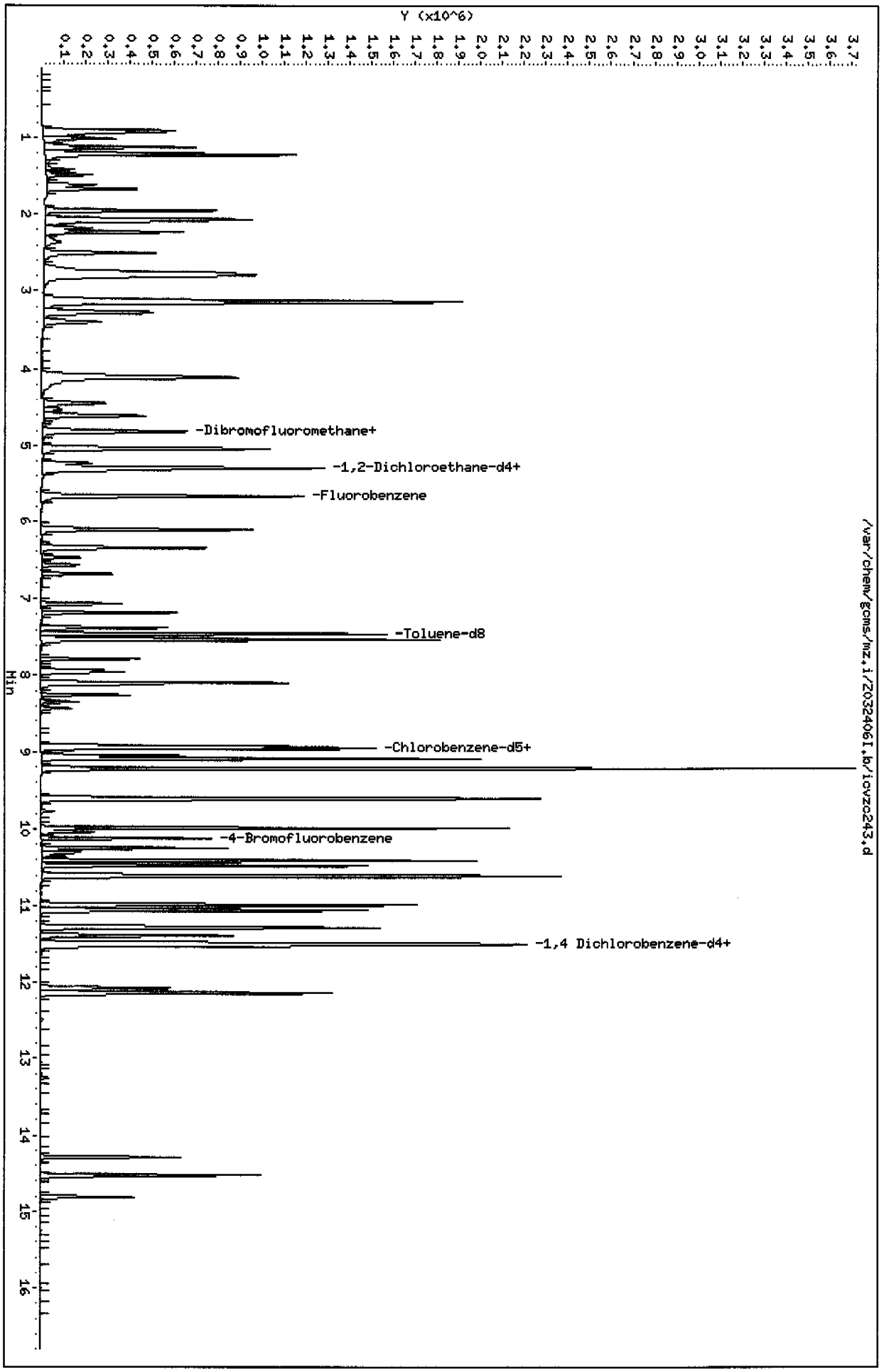
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
*	1 Fluorobenzene	96	5.666	5.666	(1.000)	1140841	10.0000	
*	2 Chlorobenzene-d5	119	8.927	8.927	(1.000)	197405	10.0000	
*	3 1,4 Dichlorobenzene-d4	152	11.488	11.488	(1.000)	234469	10.0000	
$	4 Dibromofluoromethane	113	4.826	4.826	(0.852)	184955	10.0000	10.118
$	5 1,2-Dichloroethane-d4	65	5.228	5.228	(0.923)	158691	10.0000	10.039
$	6 Toluene-d8	98	7.455	7.455	(0.835)	885681	10.0000	10.211
$	7 4-Bromofluorobenzene	95	10.119	10.119	(0.881)	231398	10.0000	9.7858
M	8 1,2-Dichloroethene (total)	96				594665	20.0000	19.776
M	9 Xylene (total)	106				1451944	30.0000	30.538
	10 Dichlorodifluoromethane	85	1.012	1.012	(0.179)	285113	10.0000	10.331
	11 Chloromethane (spcc)	50	1.128	1.128	(0.199)	767002	10.0000	9.1778
	12 Vinyl Chloride (ccc)	62	1.195	1.195	(0.211)	453855	10.0000	10.074
	13 *1,3-Butadiene	39	1.219	1.219	(0.215)	400598	10.0000	9.6982
	15 Bromomethane	94	1.414	1.414	(0.249)	91856	10.0000	10.535
	16 Chloroethane	64	1.481	1.481	(0.261)	205980	10.0000	9.5679

Data File: /var/chem/gcms/mz.i/Z032406I.b/icvzc243.d
Report Date: 24-Mar-2006 17:29

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
17 *Vinyl Bromide	106	1.614	1.614	(0.285)	188883	10.0000	10.161
18 Trichlorofluoromethane	101	1.669	1.669	(0.295)	339509	10.0000	9.7942
19 *2-Chloropropane	43	1.949	1.949	(0.344)	752430	10.0000	9.8699
20 1,1-Dichloroethene (ccc)	96	2.065	2.065	(0.364)	248862	10.0000	9.9606
21 *Freon 113	151	2.083	2.083	(0.368)	196569	10.0000	10.019
22 Acetone	43	2.125	2.125	(0.375)	96858	40.0000	43.581
23 *Iodomethane	142	2.180	2.180	(0.385)	248702	10.0000	10.714
24 Carbon Disulfide	76	2.229	2.229	(0.393)	862486	10.0000	9.8052
26 *Acetonitrile	40	2.369	2.369	(0.418)	108319	200.000	214.10
27 Methylene Chloride	84	2.503	2.503	(0.442)	201661	10.0000	10.530
28 *t-butanol	59	2.697	2.697	(0.476)	159989	500.000	465.13
29 *Acrylonitrile	53	2.758	2.758	(0.487)	838642	200.000	195.86
30 trans-1,2-Dichloroethene	96	2.795	2.795	(0.493)	301342	10.0000	9.6212
31 *MTBE	73	2.819	2.819	(0.498)	279751	10.0000	10.271
32 *Hexane	57	3.135	3.135	(0.553)	1597780	20.0000	19.776
33 1,1-Dichloroethane (spcc)	63	3.275	3.275	(0.578)	722506	10.0000	10.021
34 *Vinyl Acetate	86	3.409	3.409	(0.602)	30105	20.0000	21.977
35 2,2-Dichloropropane	77	4.096	4.096	(0.723)	372783	10.0000	10.315
36 cis 1,2-Dichloroethene	96	4.115	4.115	(0.726)	293323	10.0000	10.155
37 2-Butanone	43	4.169	4.169	(0.736)	165016	40.0000	38.237
38 Bromochloromethane	128	4.449	4.449	(0.785)	85086	10.0000	10.707
39 *THF	42	4.528	4.528	(0.799)	105470	40.0000	38.976
40 Chloroform (ccc)	83	4.607	4.607	(0.813)	410095	10.0000	10.028
41 1,1,1-Trichloroethane	97	4.814	4.814	(0.850)	365986	10.0000	10.263
42 Carbon Tetrachloride	117	5.039	5.039	(0.889)	222376	10.0000	10.528
43 1,1-Dichloropropene	75	5.039	5.039	(0.889)	391392	10.0000	10.012
44 Benzene	78	5.295	5.295	(0.934)	1091471	10.0000	9.6658
45 1,2-Dichloroethane	62	5.325	5.325	(0.940)	241132	10.0000	10.160
46 Trichloroethene	130	6.110	6.110	(1.078)	318914	10.0000	10.051
47 1,2-Dichloropropane (ccc)	63	6.341	6.341	(1.119)	309816	10.0000	10.063
48 *Methyl Methacrylate	41	6.572	6.572	(1.160)	102519	10.0000	10.358
49 Dibromomethane	93	6.469	6.469	(1.142)	67205	10.0000	10.538
50 Bromodichloromethane	83	6.688	6.688	(1.180)	180001	10.0000	10.844
51 *2-Chloroethylvinylether	63	7.065	7.065	(1.247)	137033	20.0000	19.574
52 cis-1,3-Dichloropropene	75	7.181	7.181	(1.267)	247874	10.0000	10.041
53 4-Methyl-2-pentanone	43	7.375	7.375	(1.302)	390670	40.0000	39.043
54 Toluene (ccc)	91	7.528	7.528	(0.843)	1138336	10.0000	10.131
55 trans-1,3-Dichloropropene	75	7.783	7.783	(0.872)	160005	10.0000	10.867
56 *Ethyl Methacrylate	69	7.929	7.929	(0.888)	101267	10.0000	10.778
57 1,1,2-Trichloroethane	97	7.959	7.959	(0.892)	94957	10.0000	10.446
58 Tetrachloroethene	164	8.093	8.093	(0.907)	235588	10.0000	10.020
59 1,3-Dichloropropane	76	8.118	8.118	(0.909)	162203	10.0000	10.151
60 2-Hexanone	43	8.251	8.251	(0.924)	252723	40.0000	41.502
61 Chlorodibromomethane	129	8.349	8.349	(0.935)	77270	10.0000	10.337
62 1,2-Dibromoethane	107	8.434	8.434	(0.945)	83107	10.0000	10.228
63 Chlorobenzene (spcc)	112	8.957	8.957	(1.003)	641043	10.0000	10.206
64 1,1,1,2-Tetrachloroethane	131	9.054	9.054	(1.014)	132522	10.0000	11.487

Data File: /var/chem/gcms/mz.i/Z032406I.b/icvzc243.d
Report Date: 24-Mar-2006 17:29

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
65	Ethylbenzene (ccc)	106	9.091	9.091	(1.018)	413627	10.0000	10.205
66	m&p-Xylene	106	9.219	9.219	(1.033)	1006655	20.0000	20.250
67	o-Xylene	106	9.608	9.608	(1.076)	445288	10.0000	10.288
68	Styrene	104	9.620	9.620	(1.078)	611863	10.0000	10.059
69	Bromoform (spcc)	173	9.778	9.778	(1.095)	23227	10.0000	9.4227
70	Isopropylbenzene	105	9.991	9.991	(1.119)	1257466	10.0000	10.097
71	*cis-1,4-dichloro-2-butene	88	10.052	10.052	(1.126)	12831	10.0000	10.568
72	Bromobenzene	156	10.253	10.253	(1.149)	188992	10.0000	10.255
73	1,1,2,2-Tetrachloroethane(sp)	83	10.289	10.289	(1.153)	70145	10.0000	10.428
74	1,2,3-Trichloropropane	110	10.314	10.314	(0.898)	19928	10.0000	9.8818
75	*trans-1,4-dichloro-2-butene	53	10.350	10.350	(0.901)	27019	10.0000	10.510
76	n-Propylbenzene	91	10.405	10.405	(0.906)	1451976	10.0000	10.216
77	2-Chlorotoluene	91	10.472	10.472	(0.912)	754561	10.0000	10.042
78	1,3,5-Trimethylbenzene	105	10.612	10.612	(0.924)	974655	10.0000	10.152
79	4-Chlorotoluene	91	10.594	10.594	(0.922)	833995	10.0000	10.391
80	tert-Butylbenzene	119	10.989	10.989	(0.957)	874403	10.0000	10.252
81	1,2,4-Trimethylbenzene	105	11.050	11.050	(0.962)	909993	10.0000	10.166
82	sec-Butylbenzene	105	11.281	11.281	(0.982)	1280984	10.0000	10.217
83	1,3-Dichlorobenzene	146	11.384	11.384	(0.991)	411236	10.0000	10.038
84	p-Isopropyltoluene	119	11.500	11.500	(1.001)	1117278	10.0000	10.062
85	1,4-Dichlorobenzene	146	11.518	11.518	(1.003)	377966	10.0000	9.8021
86	1,2-Dichlorobenzene	146	12.078	12.078	(1.051)	313334	10.0000	10.386
87	n-Butylbenzene	91	12.139	12.139	(1.057)	986769	10.0000	10.046
88	1,2-Dibromo-3-chloropropane	157	13.258	13.258	(1.154)	9124	10.0000	10.656
89	1,2,4-Trichlorobenzene	180	14.292	14.292	(1.244)	183193	10.0000	9.9645
90	Hexachlorobutadiene	225	14.524	14.524	(1.264)	174520	10.0000	10.054
91	Napthalene	128	14.542	14.542	(1.266)	185820	10.0000	9.7450
92	1,2,3-Trichlorobenzene	180	14.816	14.816	(1.290)	118336	10.0000	9.8369
M 93	*1,4-dichloro-2-butene(total)	53				39851	20.0000	21.079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Date : 24-MAR-2006 15:24
Client ID: STD10
Sample Info: ICVZC243,1,1,3,,STD10
Purge Volume: 25.0
Column phase: J+W 624
Instrument: mz.i
Operator: 22980
Column diameter: 0.18
Y (x10^6)
Min
/var/chem/gcms/mz.i/Z0324061.b/icvzc243.d
-Dibromofluoromethane+
-1,2-Dichloroethane-d4+
-Fluorobenzene
-Toluene-d8
-Chlorobenzene-d5+
-4-Bromofluorobenzene
-1,4 Dichlorobenzene-d4+

Data File: /var/chem/gcms/mz.i/Z032406I.b/icvzc244.d
Report Date: 24-Mar-2006 17:29

STL Knoxville

Volatile Organics by GC/MS

Data file : /var/chem/gcms/mz.i/Z032406I.b/icvzc244.d
Lab Smp Id: ICVZC244 Client Smp ID: STD20
Inj Date : 24-MAR-2006 15:48
Operator : 22980 Inst ID: mz.i
Smp Info : ICVZC244,1,1,4,,STD20
Misc Info : Z032406I,8260B_LM,
Comment : Volatile Organics by GC/MS
Method : /var/chem/gcms/mz.i/Z032406I.b/8260B_LM.m
Meth Date : 24-Mar-2006 17:26 tillerm Quant Type: ISTD
Cal Date : 24-MAR-2006 15:48 Cal File: icvzc244.d
Als bottle: 2 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Uf*Vt/(Vo*1000) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Unit Correction factor
Vt	25000.00000	Sample Volume Purged
Vo	25.00000	Sample Volume Used

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
*	1 Fluorobenzene	96	5.667	5.666	(1.000)	1107007	10.0000	
*	2 Chlorobenzene-d5	119	8.934	8.927	(1.000)	193728	10.0000	
*	3 1,4 Dichlorobenzene-d4	152	11.483	11.488	(1.000)	228655	10.0000	
$	4 Dibromofluoromethane	113	4.821	4.826	(0.851)	380475	20.0000	21.449
$	5 1,2-Dichloroethane-d4	65	5.229	5.228	(0.923)	314936	20.0000	20.532
$	6 Toluene-d8	98	7.455	7.455	(0.835)	1773741	20.0000	20.838
$	7 4-Bromofluorobenzene	95	10.120	10.119	(0.881)	478911	20.0000	20.768
M	8 1,2-Dichloroethene (total)	96				1203524	40.0000	41.215
M	9 Xylene (total)	106				2895253	60.0000	62.038
	10 Dichlorodifluoromethane	85	1.013	1.012	(0.179)	581459	20.0000	21.714
	11 Chloromethane (spcc)	50	1.123	1.128	(0.198)	1410409	20.0000	17.392
	12 Vinyl Chloride (ccc)	62	1.196	1.195	(0.211)	921392	20.0000	21.078
	13 *1,3-Butadiene	39	1.220	1.219	(0.215)	848286	20.0000	22.478
	15 Bromomethane	94	1.415	1.414	(0.250)	213182	20.0000	29.129
	16 Chloroethane	64	1.481	1.481	(0.261)	422504	20.0000	20.226

Data File: /var/chem/gcms/mz.i/Z032406I.b/icvzc244.d
Report Date: 24-Mar-2006 17:29

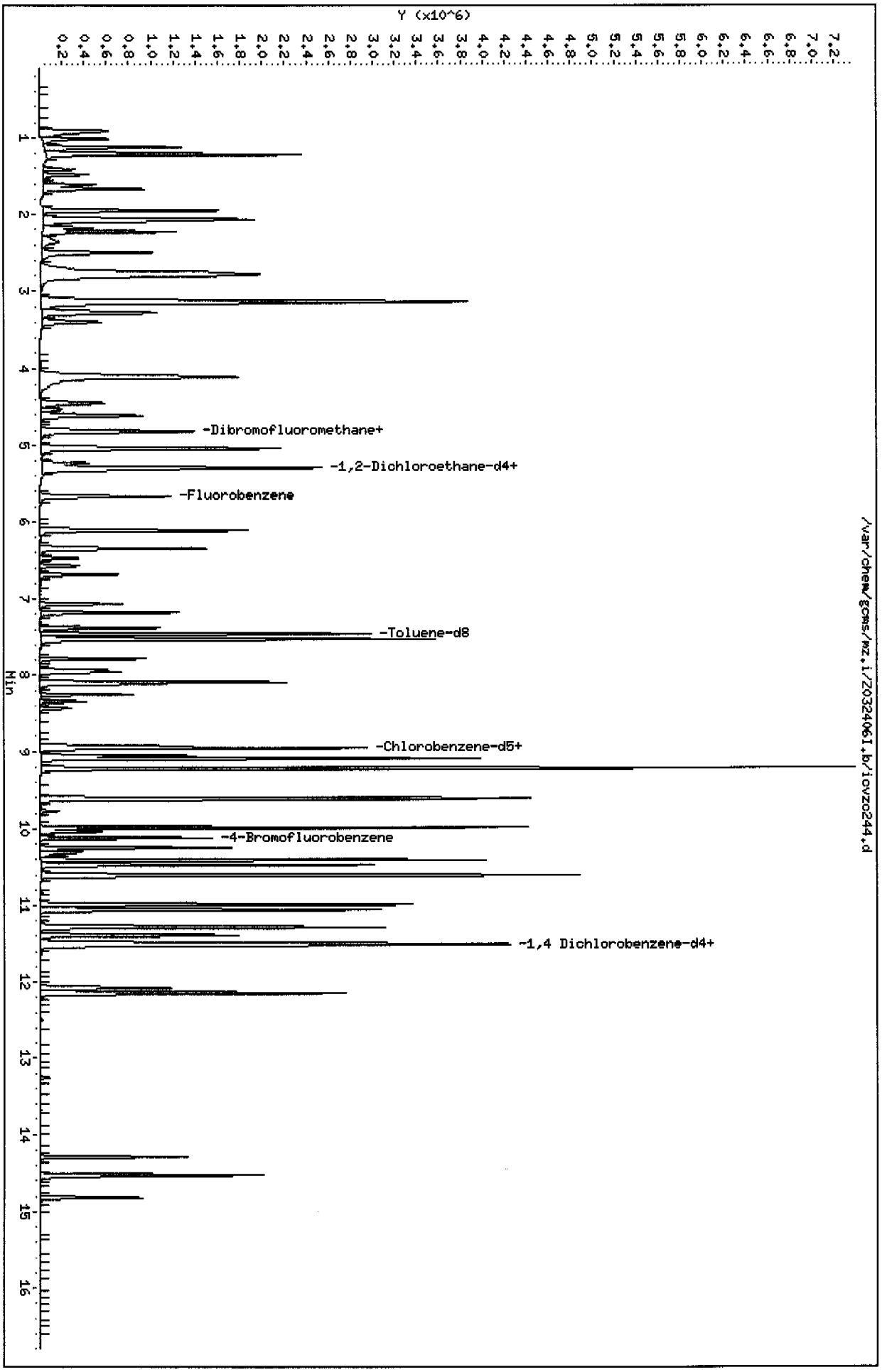
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
17 *Vinyl Bromide	106	1.615	1.614	(0.285)	393154	20.0000	21.797
18 Trichlorofluoromethane	101	1.664	1.669	(0.294)	731000	20.0000	21.732
19 *2-Chloropropane	43	1.950	1.949	(0.344)	1533951	20.0000	20.736
20 1,1-Dichloroethene (ccc)	96	2.065	2.065	(0.364)	510722	20.0000	20.297
21 *Freon 113	151	2.084	2.083	(0.368)	393884	20.0000	20.690
22 Acetone	43	2.126	2.125	(0.375)	175036	80.0000	99.119
23 *Iodomethane	142	2.181	2.180	(0.385)	547814	20.0000	24.320
24 Carbon Disulfide	76	2.230	2.229	(0.393)	1746219	20.0000	20.459
26 *Acetonitrile	40	2.370	2.369	(0.418)	204586	400.000	416.74
27 Methylene Chloride	84	2.510	2.503	(0.443)	352407	20.0000	19.113
28 *t-butanol	59	2.704	2.697	(0.477)	407598	1000.00	1221.2
29 *Acrylonitrile	53	2.759	2.758	(0.487)	1678311	400.000	403.95
30 trans-1,2-Dichloroethene	96	2.795	2.795	(0.493)	621701	20.0000	20.456
31 *MTBE	73	2.820	2.819	(0.498)	555537	20.0000	21.021
32 *Hexane	57	3.136	3.135	(0.553)	3240261	40.0000	41.330(A)
33 1,1-Dichloroethane (spcc)	63	3.276	3.275	(0.578)	1443852	20.0000	20.638
34 *Vinyl Acetate	86	3.404	3.409	(0.601)	60254	40.0000	45.329
35 2,2-Dichloropropane	77	4.097	4.096	(0.723)	801872	20.0000	22.934
36 cis 1,2-Dichloroethene	96	4.116	4.115	(0.726)	581823	20.0000	20.759
37 2-Butanone	43	4.176	4.169	(0.737)	350937	80.0000	83.802
38 Bromochloromethane	128	4.450	4.449	(0.785)	161172	20.0000	20.901
39 *THF	42	4.529	4.528	(0.799)	213431	80.0000	81.284
40 Chloroform (ccc)	83	4.614	4.607	(0.814)	830553	20.0000	20.930
41 1,1,1-Trichloroethane	97	4.815	4.814	(0.850)	777727	20.0000	22.475
42 Carbon Tetrachloride	117	5.034	5.039	(0.888)	551865	20.0000	26.925
43 1,1-Dichloropropene	75	5.046	5.039	(0.890)	789759	20.0000	20.820
44 Benzene	78	5.296	5.295	(0.934)	2165258	20.0000	19.761
45 1,2-Dichloroethane	62	5.326	5.325	(0.940)	478903	20.0000	20.795
46 Trichloroethene	130	6.111	6.110	(1.078)	651969	20.0000	21.175
47 1,2-Dichloropropane (ccc)	63	6.348	6.341	(1.120)	620611	20.0000	20.774
48 *Methyl Methacrylate	41	6.573	6.572	(1.160)	211954	20.0000	22.069
49 Dibromomethane	93	6.470	6.469	(1.142)	133319	20.0000	21.544
50 Bromodichloromethane	83	6.689	6.688	(1.180)	389855	20.0000	24.205
51 *2-Chloroethylvinylether	63	7.066	7.065	(1.247)	276224	40.0000	40.662
52 cis-1,3-Dichloropropene	75	7.182	7.181	(1.267)	523569	20.0000	21.857
53 4-Methyl-2-pentanone	43	7.376	7.375	(1.302)	805809	80.0000	82.993
54 Toluene (ccc)	91	7.528	7.528	(0.843)	2262138	20.0000	20.515
55 trans-1,3-Dichloropropene	75	7.784	7.783	(0.871)	345095	20.0000	23.883
56 *Ethyl Methacrylate	69	7.936	7.929	(0.888)	211070	20.0000	22.892
57 1,1,2-Trichloroethane	97	7.960	7.959	(0.891)	190780	20.0000	21.385
58 Tetrachloroethene	164	8.094	8.093	(0.906)	464292	20.0000	20.121
59 1,3-Dichloropropane	76	8.119	8.118	(0.909)	319536	20.0000	20.377
60 2-Hexanone	43	8.252	8.251	(0.924)	514176	80.0000	86.041
61 Chlorodibromomethane	129	8.350	8.349	(0.935)	186739	20.0000	25.456
62 1,2-Dibromoethane	107	8.435	8.434	(0.944)	167161	20.0000	20.964
63 Chlorobenzene (spcc)	112	8.958	8.957	(1.003)	1282488	20.0000	20.807
64 1,1,1,2-Tetrachloroethane	131	9.055	9.054	(1.014)	309111	20.0000	27.302

Data File: /var/chem/gcms/mz.i/Z032406I.b/icvzc244.d
Report Date: 24-Mar-2006 17:29

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
	65 Ethylbenzene (ccc)	106	9.098	9.091	(1.018)	826543	20.0000	20.779
	66 m&p-Xylene	106	9.220	9.219	(1.032)	2011420	40.0000	41.230
	67 o-Xylene	106	9.609	9.608	(1.076)	883832	20.0000	20.808
	68 Styrene	104	9.627	9.620	(1.078)	1208211	20.0000	20.240
	69 Bromoform (spcc)	173	9.779	9.778	(1.095)	69535	20.0000	19.447
	70 Isopropylbenzene	105	9.992	9.991	(1.118)	2540209	20.0000	20.784
	71 *cis-1,4-dichloro-2-butene	88	10.053	10.052	(1.125)	31704	20.0000	18.992
	72 Bromobenzene	156	10.254	10.253	(1.148)	372177	20.0000	20.578
	73 1,1,2,2-Tetrachloroethane(sp)	83	10.290	10.289	(1.152)	148060	20.0000	22.429
	74 1,2,3-Trichloropropane	110	10.315	10.314	(0.898)	40057	20.0000	20.368
	75 *trans-1,4-dichloro-2-butene	53	10.351	10.350	(0.901)	59782	20.0000	23.846
	76 n-Propylbenzene	91	10.412	10.405	(0.907)	2946550	20.0000	21.258
	77 2-Chlorotoluene	91	10.473	10.472	(0.912)	1533783	20.0000	20.931
	78 1,3,5-Trimethylbenzene	105	10.613	10.612	(0.924)	1997443	20.0000	21.335
	79 4-Chlorotoluene	91	10.601	10.594	(0.923)	1673329	20.0000	21.379
	80 tert-Butylbenzene	119	10.990	10.989	(0.957)	1785146	20.0000	21.461
	81 1,2,4-Trimethylbenzene	105	11.057	11.050	(0.963)	1845894	20.0000	21.146
	82 sec-Butylbenzene	105	11.282	11.281	(0.982)	2611459	20.0000	21.359
	83 1,3-Dichlorobenzene	146	11.391	11.384	(0.992)	844064	20.0000	21.128
	84 p-Isopropyltoluene	119	11.501	11.500	(1.002)	2301216	20.0000	21.250
	85 1,4-Dichlorobenzene	146	11.519	11.518	(1.003)	776593	20.0000	20.652
	86 1,2-Dichlorobenzene	146	12.073	12.078	(1.051)	639178	20.0000	21.725
	87 n-Butylbenzene	91	12.146	12.139	(1.058)	2027064	20.0000	21.162
	88 1,2-Dibromo-3-chloropropane	157	13.253	13.258	(1.154)	22173	20.0000	20.794
	89 1,2,4-Trichlorobenzene	180	14.293	14.292	(1.245)	378402	20.0000	21.106
	90 Hexachlorobutadiene	225	14.524	14.524	(1.265)	359657	20.0000	21.246
	91 Napthalene	128	14.543	14.542	(1.266)	404241	20.0000	21.739
	92 1,2,3-Trichlorobenzene	180	14.816	14.816	(1.290)	255300	20.0000	21.762
M	93 *1,4-dichloro-2-butene(total)	53				91487	40.0000	42.837

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.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Date : 24-MAR-2006 15:48
Client ID: STD20
Sample Info: ICVZC244,1,1,4,,STD20
Purge Volume: 25.0
Column phase: J+W 624
Instrument: mz.i
Operator: 22980
Column diameter: 0.18
Y (x10^6)
-Dibromofluoromethane+
-1,2-Dichloroethane-d4+
-Fluorobenzene
-Toluene-d8
-Chlorobenzene-d5+
-4-Bromofluorobenzene
-1,4 Dichlorobenzene-d4+
/var/chem/gcms/mz.i/Z0324061.b/icvzc244.d
Min

Data File: /var/chem/gcms/mz.i/Z032406I.b/icvzc245.d
Report Date: 24-Mar-2006 17:30

STL Knoxville

Volatile Organics by GC/MS

Data file : /var/chem/gcms/mz.i/Z032406I.b/icvzc245.d
Lab Smp Id: ICVZC245 Client Smp ID: STD40
Inj Date : 24-MAR-2006 16:11
Operator : 22980 Inst ID: mz.i
Smp Info : ICVZC245,1,1,5,,STD40
Misc Info : Z032406I,8260B_LM,
Comment : Volatile Organics by GC/MS
Method : /var/chem/gcms/mz.i/Z032406I.b/8260B_LM.m
Meth Date : 24-Mar-2006 17:26 tillerm Quant Type: ISTD
Cal Date : 24-MAR-2006 16:11 Cal File: icvzc245.d
Als bottle: 3 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Uf*Vt/(Vo*1000) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Unit Correction factor
Vt	25000.00000	Sample Volume Purged
Vo	25.00000	Sample Volume Used

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
*	1 Fluorobenzene	96	5.666	5.666	(1.000)	1082096	10.0000	
*	2 Chlorobenzene-d5	119	8.933	8.927	(1.000)	194005	10.0000	
*	3 1,4 Dichlorobenzene-d4	152	11.488	11.488	(1.000)	236275	10.0000	
$	4 Dibromofluoromethane	113	4.826	4.826	(0.852)	724030	40.0000	41.757
$	5 1,2-Dichloroethane-d4	65	5.234	5.228	(0.924)	613997	40.0000	40.950
$	6 Toluene-d8	98	7.461	7.455	(0.835)	3425672	40.0000	40.187
$	7 4-Bromofluorobenzene	95	10.125	10.119	(0.881)	933110	40.0000	39.160
M	8 1,2-Dichloroethene (total)	96				2261348	80.0000	79.245
M	9 Xylene (total)	106				5581725	120.000	119.46
	10 Dichlorodifluoromethane	85	1.012	1.012	(0.179)	1109609	40.0000	42.391
	11 Chloromethane (spcc)	50	1.128	1.128	(0.199)	2424327	40.0000	30.584
	12 Vinyl Chloride (ccc)	62	1.195	1.195	(0.211)	1748930	40.0000	40.930
	13 *1,3-Butadiene	39	1.219	1.219	(0.215)	1375708	40.0000	37.428
	15 Bromomethane	94	1.414	1.414	(0.249)	458442	40.0000	64.084
	16 Chloroethane	64	1.487	1.481	(0.262)	801482	40.0000	39.251

Data File: /var/chem/gcms/mz.i/Z032406I.b/icvzc245.d
Report Date: 24-Mar-2006 17:30

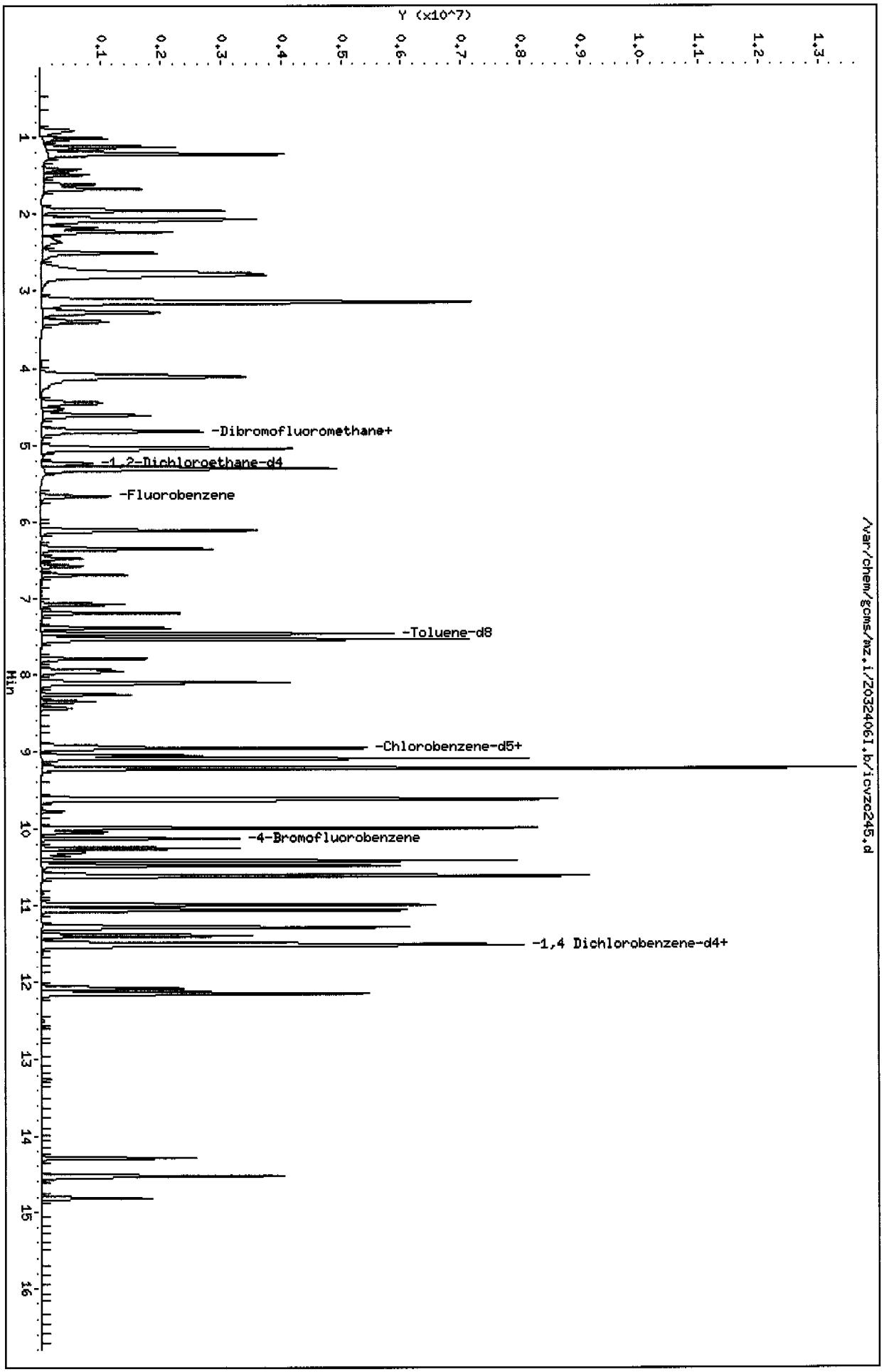
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
17 *Vinyl Bromide	106	1.614	1.614	(0.285)	741266	40.0000	42.042
18 Trichlorofluoromethane	101	1.669	1.669	(0.295)	1374093	40.0000	41.792
19 *2-Chloropropane	43	1.955	1.949	(0.345)	2907354	40.0000	40.207
20 1,1-Dichloroethene (ccc)	96	2.065	2.065	(0.364)	970329	40.0000	39.946
21 *Freon 113	151	2.089	2.083	(0.369)	719834	40.0000	38.681
22 Acetone	43	2.125	2.125	(0.375)	241819	160.000	143.60
23 *Iodomethane	142	2.180	2.180	(0.385)	1119237	40.0000	50.833
24 Carbon Disulfide	76	2.235	2.229	(0.394)	3232287	40.0000	38.741
26 *Acetonitrile	40	2.363	2.369	(0.417)	411749	800.000	858.04(A)
27 Methylene Chloride	84	2.509	2.503	(0.443)	733303	40.0000	40.370
28 *t-butanol	59	2.703	2.697	(0.477)	842811	2000.00	2583.3
29 *Acrylonitrile	53	2.764	2.758	(0.488)	3236373	800.000	796.89
30 trans-1,2-Dichloroethene	96	2.795	2.795	(0.493)	1160594	40.0000	39.067
31 *MTBE	73	2.825	2.819	(0.499)	1102546	40.0000	42.679
32 *Hexane	57	3.141	3.135	(0.554)	6159086	80.0000	80.369(A)
33 1,1-Dichloroethane (spcc)	63	3.281	3.275	(0.579)	2786982	40.0000	40.754
34 *Vinyl Acetate	86	3.403	3.409	(0.601)	126016	80.0000	96.984(A)
35 2,2-Dichloropropane	77	4.096	4.096	(0.723)	1562391	40.0000	45.578
36 cis 1,2-Dichloroethene	96	4.121	4.115	(0.727)	1100754	40.0000	40.178
37 2-Butanone	43	4.176	4.169	(0.737)	670572	160.000	163.82
38 Bromochloromethane	128	4.455	4.449	(0.786)	311208	40.0000	41.287
39 *THF	42	4.528	4.528	(0.799)	415012	160.000	161.69
40 Chloroform (ccc)	83	4.614	4.607	(0.814)	1618287	40.0000	41.720
41 1,1,1-Trichloroethane	97	4.814	4.814	(0.850)	1533775	40.0000	45.345
42 Carbon Tetrachloride	117	5.039	5.039	(0.889)	1165263	40.0000	58.160
43 1,1-Dichloropropene	75	5.052	5.039	(0.892)	1499758	40.0000	40.448
44 Benzene	78	5.301	5.295	(0.936)	4199733	40.0000	39.211
45 1,2-Dichloroethane	62	5.331	5.325	(0.941)	936763	40.0000	41.612
46 Trichloroethene	130	6.110	6.110	(1.078)	1210698	40.0000	40.227
47 1,2-Dichloropropane (ccc)	63	6.347	6.341	(1.120)	1192416	40.0000	40.833
48 *Methyl Methacrylate	41	6.572	6.572	(1.160)	424629	40.0000	45.231
49 Dibromomethane	93	6.475	6.469	(1.143)	245914	40.0000	40.654
50 Bromodichloromethane	83	6.688	6.688	(1.180)	793046	40.0000	50.371
51 *2-Chloroethylvinylether	63	7.065	7.065	(1.247)	538930	80.0000	81.159(A)
52 cis-1,3-Dichloropropene	75	7.187	7.181	(1.268)	1029163	40.0000	43.952
53 4-Methyl-2-pentanone	43	7.381	7.375	(1.303)	1540299	160.000	162.29
54 Toluene (ccc)	91	7.527	7.528	(0.843)	4414100	40.0000	39.975
55 trans-1,3-Dichloropropene	75	7.783	7.783	(0.871)	671229	40.0000	46.387
56 *Ethyl Methacrylate	69	7.935	7.929	(0.888)	408592	40.0000	44.251
57 1,1,2-Trichloroethane	97	7.959	7.959	(0.891)	361732	40.0000	40.489
58 Tetrachloroethene	164	8.093	8.093	(0.906)	876692	40.0000	37.939
59 1,3-Dichloropropane	76	8.124	8.118	(0.909)	617210	40.0000	39.303
60 2-Hexanone	43	8.251	8.251	(0.924)	962806	160.000	160.88
61 Chlorodibromomethane	129	8.349	8.349	(0.935)	396499	40.0000	53.974
62 1,2-Dibromoethane	107	8.440	8.434	(0.945)	328555	40.0000	41.146
63 Chlorobenzene (spcc)	112	8.963	8.957	(1.003)	2468389	40.0000	39.989
64 1,1,1,2-Tetrachloroethane	131	9.054	9.054	(1.014)	635577	40.0000	56.056

Data File: /var/chem/gcms/mz.i/Z032406I.b/icvzc245.d
Report Date: 24-Mar-2006 17:30

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
65	Ethylbenzene (ccc)	106	9.097	9.091	(1.018)	1591284	40.0000	39.948
66	m&p-Xylene	106	9.225	9.219	(1.033)	3869161	80.0000	79.197
67	o-Xylene	106	9.614	9.608	(1.076)	1712564	40.0000	40.260(A)
68	Styrene	104	9.626	9.620	(1.078)	2381311	40.0000	39.834
69	Bromoform (spcc)	173	9.778	9.778	(1.095)	155740	40.0000	42.161
70	Isopropylbenzene	105	9.991	9.991	(1.118)	4994860	40.0000	40.810
71	*cis-1,4-dichloro-2-butene	88	10.052	10.052	(1.125)	72559	40.0000	42.165
72	Bromobenzene	156	10.253	10.253	(1.148)	732202	40.0000	40.427
73	1,1,2,2-Tetrachloroethane(sp)	83	10.295	10.289	(1.153)	276593	40.0000	41.840
74	1,2,3-Trichloropropane	110	10.314	10.314	(0.898)	76193	40.0000	37.494
75	*trans-1,4-dichloro-2-butene	53	10.350	10.350	(0.901)	118001	40.0000	45.550
76	n-Propylbenzene	91	10.411	10.405	(0.906)	5917981	40.0000	41.318
77	2-Chlorotoluene	91	10.478	10.472	(0.912)	3044760	40.0000	40.212
78	1,3,5-Trimethylbenzene	105	10.618	10.612	(0.924)	3917827	40.0000	40.498
79	4-Chlorotoluene	91	10.600	10.594	(0.923)	3291203	40.0000	40.693
80	tert-Butylbenzene	119	10.995	10.989	(0.957)	3537781	40.0000	41.160
81	1,2,4-Trimethylbenzene	105	11.056	11.050	(0.962)	3700698	40.0000	41.027
82	sec-Butylbenzene	105	11.287	11.281	(0.983)	5258605	40.0000	41.623
83	1,3-Dichlorobenzene	146	11.390	11.384	(0.992)	1667487	40.0000	40.393
84	p-Isopropyltoluene	119	11.506	11.500	(1.002)	4561658	40.0000	40.766
85	1,4-Dichlorobenzene	146	11.524	11.518	(1.003)	1510014	40.0000	38.861
86	1,2-Dichlorobenzene	146	12.078	12.078	(1.051)	1242829	40.0000	40.880
87	n-Butylbenzene	91	12.145	12.139	(1.057)	4102024	40.0000	41.443
88	1,2-Dibromo-3-chloropropane	157	13.258	13.258	(1.154)	45425	40.0000	40.518
89	1,2,4-Trichlorobenzene	180	14.292	14.292	(1.244)	743125	40.0000	40.112
90	Hexachlorobutadiene	225	14.530	14.524	(1.265)	704667	40.0000	40.284
91	Napthalene	128	14.548	14.542	(1.266)	790581	40.0000	41.144
92	1,2,3-Trichlorobenzene	180	14.815	14.816	(1.290)	504335	40.0000	41.603
M 93	*1,4-dichloro-2-butene(total)	53				190560	80.0000	87.715

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.


Data File: /var/chem/gcms/mz.i/Z0324061.b/icvzc245.d
Date : 24-MAR-2006 16:11
Client ID: STD40
Sample Info: ICVZC245,1,1,5,,STD40
Purge Volume: 25.0
Column phase: J+W 624
Instrument: mz.i
Operator: 22980
Column diameter: 0.18
Y (x10^7)
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1.0
1.1
1.2
1.3
1
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11
12
13
14
15
16
Min
-Dibromofluoromethane+
-1,2-Dichloroethane-d4
-Fluorobenzene
-Toluene-d8
-Chlorobenzene-d5+
-4-Bromofluorobenzene
-1,4 Dichlorobenzene-d4+
/var/chem/gcms/mz.i/Z0324061.b/icvzc245.d

Data File: /var/chem/gcms/mz.i/Z032406I.b/icvzc246.d
Report Date: 24-Mar-2006 17:30

STL Knoxville

Volatile Organics by GC/MS

Data file : /var/chem/gcms/mz.i/Z032406I.b/icvzc246.d
Lab Smp Id: ICVZC246 Client Smp ID: STD80
Inj Date : 24-MAR-2006 16:34
Operator : 22980 Inst ID: mz.i
Smp Info : ICVZC246,1,1,6,,STD80
Misc Info : Z032406I,8260B_LM,
Comment : Volatile Organics by GC/MS
Method : /var/chem/gcms/mz.i/Z032406I.b/8260B_LM.m
Meth Date : 24-Mar-2006 17:26 tillerm Quant Type: ISTD
Cal Date : 24-MAR-2006 16:34 Cal File: icvzc246.d
Als bottle: 1 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50

Concentration Formula: Amt * DF * Uf*Vt/(Vo*1000) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Unit Correction factor
Vt	25000.00000	Sample Volume Purged
Vo	25.00000	Sample Volume Used

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
*	1 Fluorobenzene	96	5.666	5.666	(1.000)	1118051	10.0000	
*	2 Chlorobenzene-d5	119	8.933	8.927	(1.000)	190829	10.0000	
*	3 1,4 Dichlorobenzene-d4	152	11.488	11.488	(1.000)	230846	10.0000	
$	4 Dibromofluoromethane	113	4.826	4.826	(0.852)	185502	80.0000	10.354
$	5 1,2-Dichloroethane-d4	65	5.234	5.228	(0.924)	159929	80.0000	10.323
$	6 Toluene-d8	98	7.461	7.455	(0.835)	880227	80.0000	10.498
$	7 4-Bromofluorobenzene	95	10.125	10.119	(0.881)	235988	80.0000	10.136
M	8 1,2-Dichloroethene (total)	96				4713126	160.000	159.81
M	9 Xylene (total)	106				10020075	240.000	221.37
	10 Dichlorodifluoromethane	85	1.012	1.012	(0.179)	2301332	80.0000	84.324(A)
	11 Chloromethane (spcc)	50	1.128	1.128	(0.199)	4768731	80.0000	60.992
	12 Vinyl Chloride (ccc)	62	1.195	1.195	(0.211)	3468283	80.0000	78.760
	13 *1,3-Butadiene	39	1.225	1.219	(0.216)	2868524	80.0000	72.236
	15 Bromomethane	94	1.414	1.414	(0.249)	963744	80.0000	105.57(A)
	16 Chloroethane	64	1.480	1.481	(0.261)	1569558	80.0000	75.273

Data File: /var/chem/gcms/mz.i/Z032406I.b/icvzc246.d
Report Date: 24-Mar-2006 17:30

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
17 *Vinyl Bromide	106	1.614	1.614	(0.285)	1450251	80.0000	79.664
18 Trichlorofluoromethane	101	1.669	1.669	(0.295)	2555712	80.0000	75.876
19 *2-Chloropropane	43	1.955	1.949	(0.345)	5617462	80.0000	75.949
20 1,1-Dichloroethene (ccc)	96	2.065	2.065	(0.364)	1854745	80.0000	76.328(A)
21 *Freon 113	151	2.089	2.083	(0.369)	1389312	80.0000	73.440
22 Acetone	43	2.131	2.125	(0.376)	590732	320.000	278.28(A)
23 *Iodomethane	142	2.180	2.180	(0.385)	2352430	80.0000	99.257(A)
24 Carbon Disulfide	76	2.235	2.229	(0.394)	6655650	80.0000	77.594
26 *Acetonitrile	40	2.369	2.369	(0.418)	815113	1600.00	1636.5(A)
27 Methylene Chloride	84	2.509	2.503	(0.443)	1468213	80.0000	78.519
28 *t-butanol	59	2.709	2.697	(0.478)	1794644	4000.00	5045.5(A)
29 *Acrylonitrile	53	2.770	2.758	(0.489)	6510629	1600.00	1559.4
30 trans-1,2-Dichloroethene	96	2.795	2.795	(0.493)	2444415	80.0000	79.687
31 *MTBE	73	2.825	2.819	(0.499)	2255591	80.0000	83.831(A)
32 *Hexane	57	3.147	3.135	(0.555)	12103885	160.000	154.01(A)
33 1,1-Dichloroethane (spcc)	63	3.281	3.275	(0.579)	5791048	80.0000	81.674(A)
34 *Vinyl Acetate	86	3.403	3.409	(0.601)	265402	160.000	190.22(A)
35 2,2-Dichloropropane	77	4.102	4.096	(0.724)	3172913	80.0000	88.076(A)
36 cis 1,2-Dichloroethene	96	4.121	4.115	(0.727)	2268711	80.0000	80.125(A)
37 2-Butanone	43	4.175	4.169	(0.737)	1366804	320.000	322.63(A)
38 Bromochloromethane	128	4.455	4.449	(0.786)	621691	80.0000	79.850
39 *THF	42	4.534	4.528	(0.800)	850192	320.000	320.49(A)
40 Chloroform (ccc)	83	4.613	4.607	(0.814)	3384994	80.0000	83.793(A)
41 1,1,1-Trichloroethane	97	4.820	4.814	(0.851)	3247602	80.0000	90.829(A)
42 Carbon Tetrachloride	117	5.039	5.039	(0.889)	2475319	80.0000	111.68(A)
43 1,1-Dichloropropene	75	5.051	5.039	(0.892)	3066658	80.0000	80.041(A)
44 Benzene	78	5.301	5.295	(0.936)	8625092	80.0000	78.227
45 1,2-Dichloroethane	62	5.337	5.325	(0.942)	1910102	80.0000	81.811(A)
46 Trichloroethene	130	6.116	6.110	(1.079)	2441960	80.0000	78.735
47 1,2-Dichloropropane (ccc)	63	6.353	6.341	(1.121)	2386899	80.0000	79.234
48 *Methyl Methacrylate	41	6.572	6.572	(1.160)	863742	80.0000	87.398(A)
49 Dibromomethane	93	6.475	6.469	(1.143)	513100	80.0000	81.792(A)
50 Bromodichloromethane	83	6.688	6.688	(1.180)	1662952	80.0000	98.325(A)
51 *2-Chloroethylvinylether	63	7.071	7.065	(1.248)	1074769	160.000	157.20(A)
52 cis-1,3-Dichloropropene	75	7.187	7.181	(1.268)	2085222	80.0000	85.247(A)
53 4-Methyl-2-pentanone	43	7.381	7.375	(1.303)	3056403	320.000	313.04
54 Toluene (ccc)	91	7.534	7.528	(0.843)	8681941	80.0000	79.943
55 trans-1,3-Dichloropropene	75	7.789	7.783	(0.872)	1388723	80.0000	94.601(A)
56 *Ethyl Methacrylate	69	7.935	7.929	(0.888)	820290	80.0000	88.416(A)
57 1,1,2-Trichloroethane	97	7.965	7.959	(0.892)	718019	80.0000	81.458(A)
58 Tetrachloroethene	164	8.099	8.093	(0.907)	1704353	80.0000	75.662(A)
59 1,3-Dichloropropane	76	8.124	8.118	(0.909)	1237708	80.0000	80.109(A)
60 2-Hexanone	43	8.257	8.251	(0.924)	1919701	320.000	325.08(A)
61 Chlorodibromomethane	129	8.349	8.349	(0.935)	826913	80.0000	106.78(A)
62 1,2-Dibromoethane	107	8.440	8.434	(0.945)	650211	80.0000	82.373(A)
63 Chlorobenzene (spcc)	112	8.963	8.957	(1.003)	4801038	80.0000	79.205
64 1,1,1,2-Tetrachloroethane	131	9.060	9.054	(1.014)	1296966	80.0000	109.21(A)

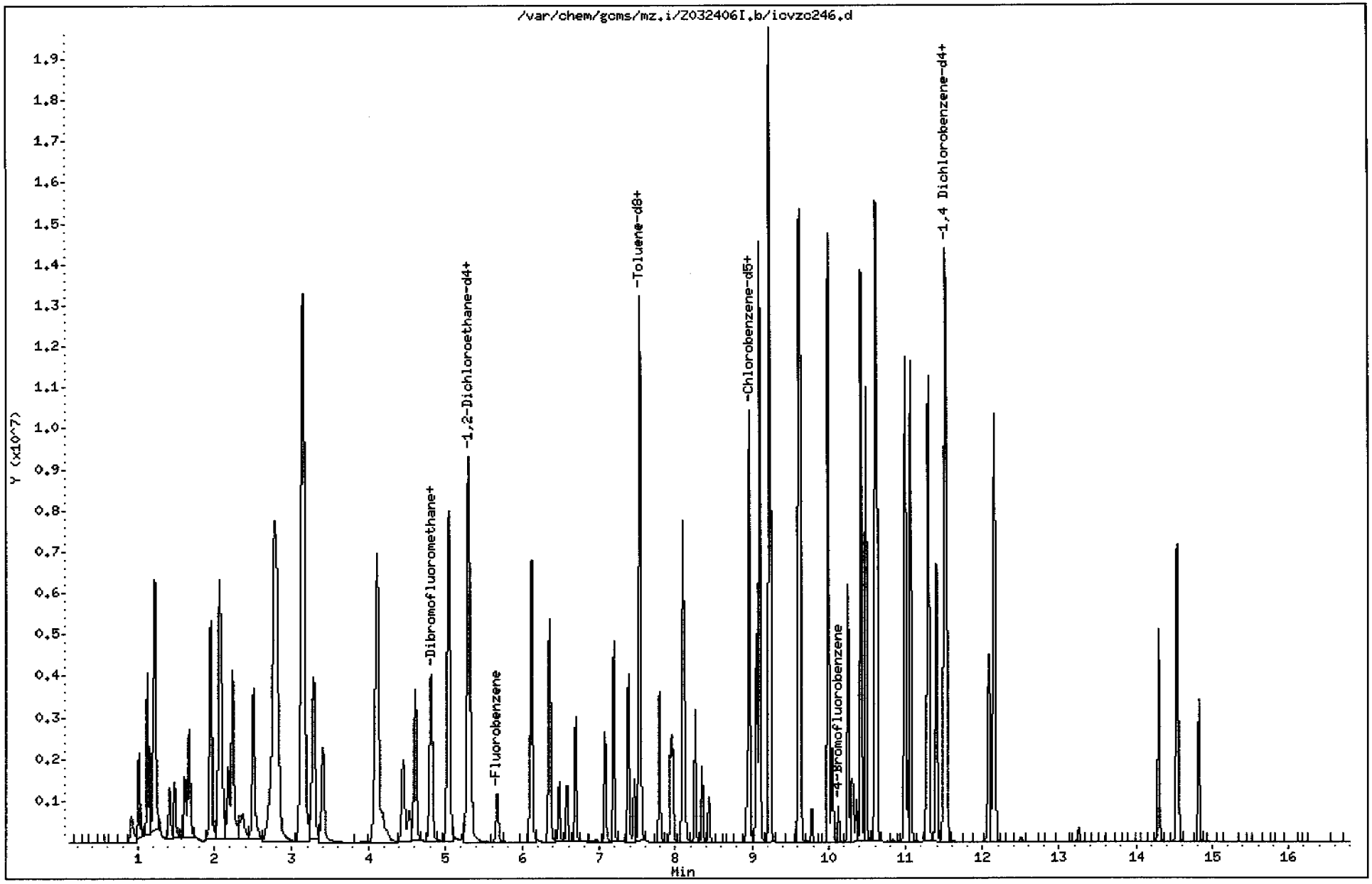
Data File: /var/chem/gcms/mz.i/Z032406I.b/icvzc246.d
Report Date: 24-Mar-2006 17:30

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
	65 Ethylbenzene (ccc)	106	9.103	9.091	(1.019)	3064738	80.0000	78.468
	66 m&p-Xylene	106	9.231	9.219	(1.033)	6749452	160.000	142.95(A)
	67 o-Xylene	106	9.614	9.608	(1.076)	3270622	80.0000	78.425(A)
	68 Styrene	104	9.632	9.620	(1.078)	4564771	80.0000	77.960
	69 Bromoform (spcc)	173	9.784	9.778	(1.095)	345341	80.0000	127.66(A)
	70 Isopropylbenzene	105	9.997	9.991	(1.119)	9367183	80.0000	78.113
	71 *cis-1,4-dichloro-2-butene	88	10.058	10.052	(1.126)	157150	80.0000	120.38(A)
	72 Bromobenzene	156	10.259	10.253	(1.148)	1428813	80.0000	80.173(A)
	73 1,1,2,2-Tetrachloroethane(sp)	83	10.295	10.289	(1.153)	560963	80.0000	85.314(A)
	74 1,2,3-Trichloropropane	110	10.320	10.314	(0.898)	159966	80.0000	80.487(A)
	75 *trans-1,4-dichloro-2-butene	53	10.356	10.350	(0.902)	245666	80.0000	93.729(A)
	76 n-Propylbenzene	91	10.417	10.405	(0.907)	11077770	80.0000	79.281
	77 2-Chlorotoluene	91	10.484	10.472	(0.913)	5987659	80.0000	80.802(A)
	78 1,3,5-Trimethylbenzene	105	10.624	10.612	(0.925)	7280244	80.0000	77.435
	79 4-Chlorotoluene	91	10.606	10.594	(0.923)	6154325	80.0000	78.179
	80 tert-Butylbenzene	119	11.001	10.989	(0.958)	6830794	80.0000	81.147(A)
	81 1,2,4-Trimethylbenzene	105	11.062	11.050	(0.963)	7164714	80.0000	81.111(A)
	82 sec-Butylbenzene	105	11.293	11.281	(0.983)	10237688	80.0000	82.506(A)
	83 1,3-Dichlorobenzene	146	11.403	11.384	(0.993)	3269358	80.0000	80.907(A)
	84 p-Isopropyltoluene	119	11.512	11.500	(1.002)	8494008	80.0000	78.015
	85 1,4-Dichlorobenzene	146	11.530	11.518	(1.004)	2826394	80.0000	75.195
	86 1,2-Dichlorobenzene	146	12.084	12.078	(1.052)	2437142	80.0000	81.750(A)
	87 n-Butylbenzene	91	12.157	12.139	(1.058)	8114803	80.0000	83.331(A)
	88 1,2-Dibromo-3-chloropropane	157	13.258	13.258	(1.154)	94455	80.0000	105.03(A)
	89 1,2,4-Trichlorobenzene	180	14.298	14.292	(1.245)	1432764	80.0000	79.295
	90 Hexachlorobutadiene	225	14.536	14.524	(1.265)	1297420	80.0000	76.566
	91 Napthalene	128	14.548	14.542	(1.266)	1585750	80.0000	83.688(A)
	92 1,2,3-Trichlorobenzene	180	14.822	14.816	(1.290)	975703	80.0000	81.974(A)
M	93 *1,4-dichloro-2-butene(total)	53				402817	160.000	214.11

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

Data File: /var/chem/gcms/mz.i/Z032406I.b/icvzc246.d
Date : 24-MAR-2006 16:34
Client ID: STD80
Instrument: mz.i
Sample Info: ICVZC246,1,1,6,,STD80
Purge Volume: 25.0
Operator: 22980
Column phase: J+W 624
Column diameter: 0.18



Data File: /var/chem/gcms/mz.i/Z032406I.b/h10ce1ac.d
Report Date: 28-Mar-2006 11:45

STL Knoxville

Volatile Organics by GC/MS

Data file : /var/chem/gcms/mz.i/Z032406I.b/h10ce1ac.d
Lab Smp Id: H10CE1AC Client Smp ID: INTRA-LAB CHECK
Inj Date : 24-MAR-2006 17:21
Operator : 22980 Inst ID: mz.i
Smp Info : H10CE1AC,1,3,,LCS & 2ND SOURCE
Misc Info : Z032406I,8260B_LM,ss.sub
Comment : Volatile Organics by GC/MS
Method : /var/chem/gcms/mz.i/Z032406I.b/8260B_LM.m
Meth Date : 28-Mar-2006 11:44 gosss Quant Type: ISTD
Cal Date : 24-MAR-2006 13:51 Cal File: icvzc248.d
Als bottle: 1 QC Sample: METHOD SPIKE
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ss.sub
Target Version: 3.50
Processing Host: qmidhp01

Concentration Formula: Amt * DF * Uf*Vt/(Vo*1000) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Unit Correction factor
Vt	25000.00000	Sample Volume Purged
Vo	5.00000	Sample Volume Used

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
* 1 Fluorobenzene	96	5.667	5.666	(1.000)	1110859	10.0000	
* 2 Chlorobenzene-d5	119	8.928	8.927	(1.000)	193027	10.0000	
* 3 1,4 Dichlorobenzene-d4	152	11.483	11.488	(1.000)	236284	10.0000	
$ 5 1,2-Dichloroethane-d4	65	5.229	5.228	(0.923)	149329	9.70148	48.507
$ 4 Dibromofluoromethane	113	4.821	4.826	(0.851)	184495	10.3649	51.825
$ 6 Toluene-d8	98	7.455	7.455	(0.835)	883426	10.4162	52.081
$ 7 4-Bromofluorobenzene	95	10.120	10.119	(0.881)	234321	9.83329	49.166
10 Dichlorodifluoromethane	85	1.013	1.012	(0.179)	279356	10.3023	51.512
11 Chloromethane (spcc)	50	1.123	1.128	(0.198)	715520	10.9334	54.667
12 Vinyl Chloride (ccc)	62	1.196	1.195	(0.211)	459931	10.5121	52.560
15 Bromomethane	94	1.408	1.414	(0.249)	105550	9.74105	48.705
16 Chloroethane	64	1.481	1.481	(0.261)	208234	10.0511	50.256
18 Trichlorofluoromethane	101	1.664	1.669	(0.294)	330525	9.73464	48.673
20 1,1-Dichloroethene (ccc)	96	2.065	2.065	(0.364)	251498	10.4168	52.084

Data File: /var/chem/gcms/mz.i/Z032406I.b/h10ce1ac.d
Report Date: 28-Mar-2006 11:45

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
23	*Iodomethane	142	2.181	2.180	(0.385)	597926	21.1897	105.95
24	Carbon Disulfide	76	2.230	2.229	(0.393)	1715196	20.1259	100.63
22	Acetone	43	2.126	2.125	(0.375)	38108	11.3726	56.863(R)
27	Methylene Chloride	84	2.510	2.503	(0.443)	173445	9.33581	46.679
30	trans-1,2-Dichloroethene	96	2.789	2.795	(0.492)	295003	9.67931	48.396
31	*MTBE	73	2.826	2.819	(0.499)	250391	9.36627	46.831
33	1,1-Dichloroethane (spcc)	63	3.276	3.275	(0.578)	693586	9.84534	49.227
34	*Vinyl Acetate	86	3.392	3.409	(0.598)	24635	16.6335	83.168
35	2,2-Dichloropropane	77	4.097	4.096	(0.723)	377422	10.5445	52.723
36	cis 1,2-Dichloroethene	96	4.116	4.115	(0.726)	269097	9.56535	47.827
M 8	1,2-Dichloroethene (total)	96				564101	19.2447	96.223
37	2-Butanone	43	4.176	4.169	(0.737)	76287	18.1242	90.621
38	Bromochloromethane	128	4.444	4.449	(0.784)	77936	10.0751	50.375
40	Chloroform (ccc)	83	4.608	4.607	(0.813)	375212	9.34826	46.741
41	1,1,1-Trichloroethane	97	4.809	4.814	(0.849)	386220	10.8717	54.358
42	Carbon Tetrachloride	117	5.034	5.039	(0.888)	270953	9.47381	47.369
43	1,1-Dichloropropene	75	5.046	5.039	(0.890)	393707	10.3425	51.712
44	Benzene	78	5.296	5.295	(0.934)	1048995	9.57566	47.878
45	1,2-Dichloroethane	62	5.326	5.325	(0.940)	227976	9.82759	49.138
46	Trichloroethene	130	6.111	6.110	(1.078)	322453	10.4640	52.320
47	1,2-Dichloropropane (ccc)	63	6.342	6.341	(1.119)	307289	10.2666	51.333
49	Dibromomethane	93	6.470	6.469	(1.142)	65689	10.5392	52.696
50	Bromodichloromethane	83	6.689	6.688	(1.180)	194803	10.1071	50.535
52	cis-1,3-Dichloropropene	75	7.182	7.181	(1.267)	253308	10.4227	52.114
53	4-Methyl-2-pentanone	43	7.376	7.375	(1.302)	190075	19.5937	97.968
54	Toluene (ccc)	91	7.528	7.528	(0.843)	1115481	10.1543	50.772
55	trans-1,3-Dichloropropene	75	7.784	7.783	(0.872)	158316	9.64211	48.210
57	1,1,2-Trichloroethane	97	7.960	7.959	(0.892)	93771	10.5171	52.585
58	Tetrachloroethene	164	8.094	8.093	(0.907)	230773	10.1281	50.641
59	1,3-Dichloropropane	76	8.119	8.118	(0.909)	160180	10.2494	51.247
60	2-Hexanone	43	8.252	8.251	(0.924)	121460	20.3338	101.67
61	Chlorodibromomethane	129	8.350	8.349	(0.935)	87235	9.35318	46.766
62	1,2-Dibromoethane	107	8.435	8.434	(0.945)	82847	10.3761	51.881
63	Chlorobenzene (spcc)	112	8.958	8.957	(1.003)	620686	10.1232	50.616
65	Ethylbenzene (ccc)	106	9.092	9.091	(1.018)	416923	10.5532	52.766
64	1,1,1,2-Tetrachloroethane	131	9.055	9.054	(1.014)	151683	9.82814	49.141
66	m&p-Xylene	106	9.220	9.219	(1.033)	993957	20.8113	104.06
67	o-Xylene	106	9.609	9.608	(1.076)	436681	10.3518	51.759
M 9	Xylene (total)	106				1430638	31.1630	155.82
68	Styrene	104	9.621	9.620	(1.078)	655213	11.0627	55.314
69	Bromoform (spcc)	173	9.779	9.778	(1.095)	32735	10.9300	54.650
70	Isopropylbenzene	105	9.992	9.991	(1.119)	1117859	9.21575	46.079
72	Bromobenzene	156	10.254	10.253	(1.149)	185007	10.2628	51.314
73	1,1,2,2-Tetrachloroethane(sp)	83	10.290	10.289	(1.153)	70910	10.6615	53.308
76	n-Propylbenzene	91	10.406	10.405	(0.906)	1445852	10.1095	50.547
74	1,2,3-Trichloropropane	110	10.309	10.314	(0.898)	20738	10.1942	50.971
77	2-Chlorotoluene	91	10.473	10.472	(0.912)	753997	9.94088	49.704

Data File: /var/chem/gcms/mz.i/Z032406I.b/h10ce1ac.d
Report Date: 28-Mar-2006 11:45

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)
78	1,3,5-Trimethylbenzene	105	10.613	10.612	(0.924)	1011039	10.5063	52.531
79	4-Chlorotoluene	91	10.594	10.594	(0.923)	805918	10.0020	50.010
80	tert-Butylbenzene	119	10.990	10.989	(0.957)	878401	10.1949	50.974
81	1,2,4-Trimethylbenzene	105	11.051	11.050	(0.962)	923566	10.2149	51.075
82	sec-Butylbenzene	105	11.282	11.281	(0.983)	1355045	10.6691	53.345
83	1,3-Dichlorobenzene	146	11.385	11.384	(0.992)	413200	9.99008	49.950
84	p-Isopropyltoluene	119	11.501	11.500	(1.002)	1094885	9.82472	49.124
85	1,4-Dichlorobenzene	146	11.519	11.518	(1.003)	388708	10.1034	50.517
87	n-Butylbenzene	91	12.140	12.139	(1.057)	1019789	10.2312	51.156
86	1,2-Dichlorobenzene	146	12.073	12.078	(1.051)	294000	9.63475	48.174
88	1,2-Dibromo-3-chloropropane	157	13.259	13.258	(1.155)	10617	9.72403	48.620
89	1,2,4-Trichlorobenzene	180	14.293	14.292	(1.245)	189299	10.2355	51.178
90	Hexachlorobutadiene	225	14.524	14.524	(1.265)	194786	11.2306	56.153
91	Napthalene	128	14.543	14.542	(1.266)	203415	10.4882	52.441
92	1,2,3-Trichlorobenzene	180	14.816	14.816	(1.290)	130611	10.7208	53.604

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

Data File: /var/chem/gcms/mz.i/Z032406I.b/h10ce1ac.d
Report Date: 28-Mar-2006 11:45

STL Knoxville

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: mz.i
Lab File ID: h10ce1ac.d
Lab Smp Id: H10CE1AC
Analysis Type: VOA
Quant Type: ISTD
Operator: 22980
Method File: /var/chem/gcms/mz.i/Z032406I.b/8260B_LM.m
Misc Info: Z032406I,8260B_LM,ss.sub

Calibration Date: 24-MAR-2006
Calibration Time: 15:24
Client Smp ID: INTRA-LAB CHECK
Level: LOW
Sample Type: WATER

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	1140841	570420	2281682	1110859	-2.63
2 Chlorobenzene-d5	197405	98702	394810	193027	-2.22
3 1,4 Dichlorobenze	234469	117234	468938	236284	0.77

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	5.67	5.17	6.17	5.67	0.02
2 Chlorobenzene-d5	8.93	8.43	9.43	8.93	0.01
3 1,4 Dichlorobenze	11.49	10.99	11.99	11.48	-0.05

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

Data File: /var/chem/gcms/mz.i/Z032406I.b/h10ce1ac.d
Report Date: 28-Mar-2006 11:45

STL Knoxville

RECOVERY REPORT

Client Name:
Client SDG: H6C240000
Sample Matrix: LIQUID
Fraction: VOA
Lab Smp Id: H10CE1AC
Client Smp ID: INTRA-LAB CHECK
Level: LOW
Operator: 22980
Data Type: MS DATA
SampleType: METHOD SPIKE
SpikeList File: ssallcmpds.spk
Quant Type: ISTD
Sublist File: ss.sub
Method File: /var/chem/gcms/mz.i/Z032406I.b/8260B_LM.m
Misc Info: Z032406I,8260B_LM,ss.sub

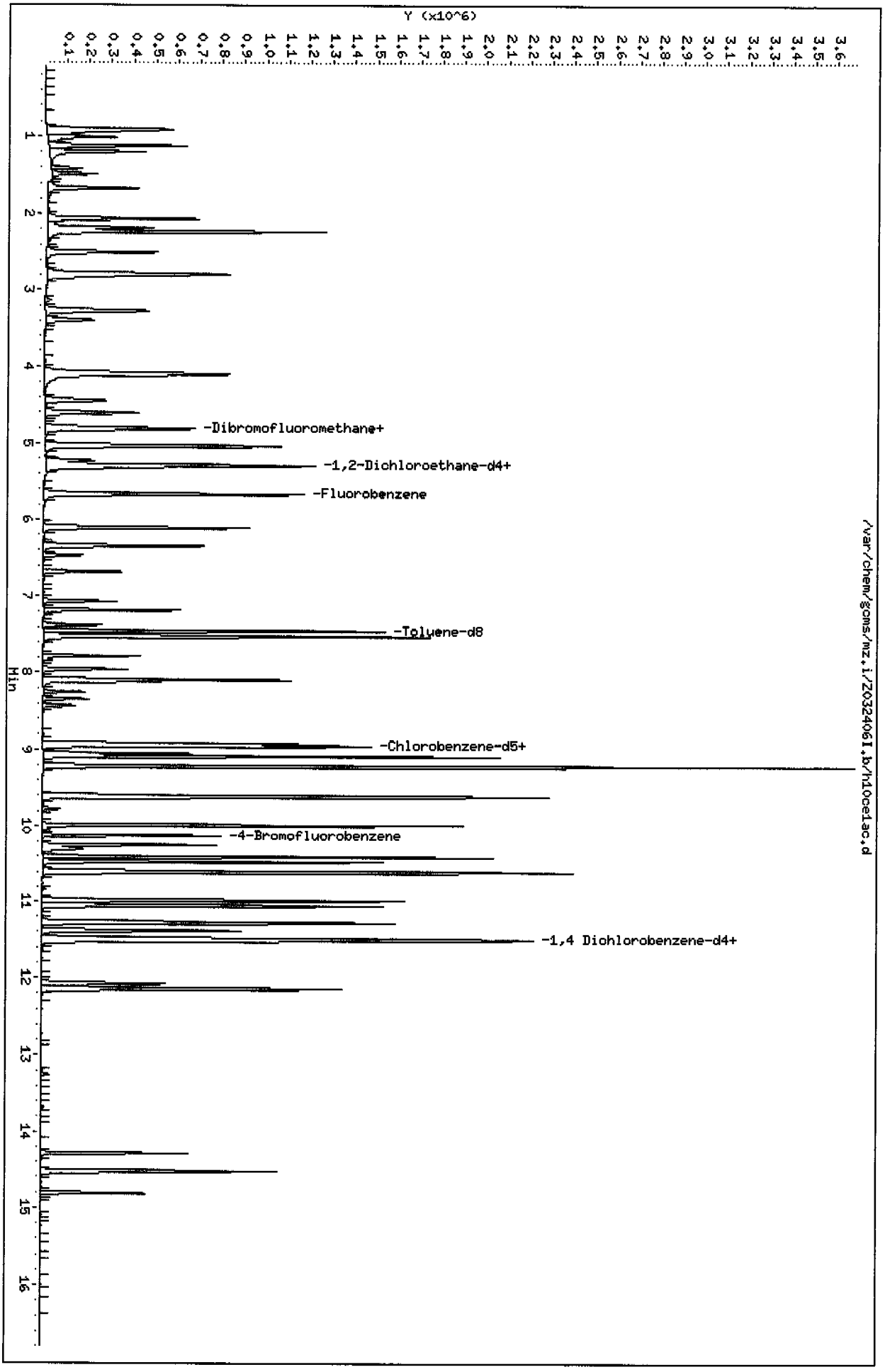
	SPIKE	COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
	10	Dichlorodifluorome	50.000	51.512	103.02	70-130
	11	Chloromethane (spc	50.000	54.667	109.33	70-130
	12	Vinyl Chloride (cc	50.000	52.560	105.12	70-130
	15	Bromomethane	50.000	48.705	97.41	70-130
	16	Chloroethane	50.000	50.256	100.51	70-130
	18	Trichlorofluoromet	50.000	48.673	97.35	70-130
	20	1,1-Dichloroethene	50.000	52.084	104.17	70-130
	22	Acetone	100.00	56.863	56.86*	70-130
	23	*Iodomethane	100.00	105.95	105.95	70-130
	24	Carbon Disulfide	100.00	100.63	100.63	70-130
	27	Methylene Chloride	50.000	46.679	93.36	70-130
	30	trans-1,2-Dichloro	50.000	48.396	96.79	70-130
	31	*MTBE	50.000	46.831	93.66	70-130
	33	1,1-Dichloroethane	50.000	49.227	98.45	70-130
	34	*Vinyl Acetate	100.00	83.168	83.17	70-130
	35	2,2-Dichloropropan	50.000	52.723	105.45	70-130
	36	cis 1,2-Dichloroet	50.000	47.827	95.65	70-130
	37	2-Butanone	100.00	90.621	90.62	70-130
M	8	1,2-Dichloroethene	100.00	96.223	96.22	70-130
	38	Bromochloromethane	50.000	50.375	100.75	70-130
	40	Chloroform (ccc)	50.000	46.741	93.48	70-130
	41	1,1,1-Trichloroeth	50.000	54.358	108.72	70-130
	42	Carbon Tetrachlori	50.000	47.369	94.74	70-130
	43	1,1-Dichloropropen	50.000	51.712	103.42	70-130
	44	Benzene	50.000	47.878	95.76	70-130
	45	1,2-Dichloroethane	50.000	49.138	98.28	70-130
	46	Trichloroethene	50.000	52.320	104.64	70-130
	47	1,2-Dichloropropan	50.000	51.333	102.67	70-130
	49	Dibromomethane	50.000	52.696	105.39	70-130
	50	Bromodichlorometha	50.000	50.535	101.07	70-130
	52	cis-1,3-Dichloropr	50.000	52.114	104.23	70-130
	53	4-Methyl-2-pentano	100.00	97.968	97.97	70-130
	54	Toluene (ccc)	50.000	50.772	101.54	70-130

* Rerun Next day for acetone.
3/29/06

Data File: /var/chem/gcms/mz.i/Z032406I.b/h10ce1ac.d
Report Date: 28-Mar-2006 11:45

	SPIKE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
	55 trans-1,3-Dichloro	50.000	48.210	96.42	70-130
	57 1,1,2-Trichloroeth	50.000	52.585	105.17	70-130
	58 Tetrachloroethene	50.000	50.641	101.28	70-130
	59 1,3-Dichloropropan	50.000	51.247	102.49	70-130
	60 2-Hexanone	100.00	101.67	101.67	70-130
	61 Chlorodibromometha	50.000	46.766	93.53	70-130
	62 1,2-Dibromoethane	50.000	51.881	103.76	70-130
	63 Chlorobenzene (spc	50.000	50.616	101.23	70-130
	65 Ethylbenzene (ccc)	50.000	52.766	105.53	70-130
	64 1,1,1,2-Tetrachlor	50.000	49.141	98.28	70-130
	66 m&p-Xylene	100.00	104.06	104.06	70-130
	67 o-Xylene	50.000	51.759	103.52	70-130
M	9 Xylene (total)	150.00	155.82	103.88	70-130
	68 Styrene	50.000	55.314	110.63	70-130
	69 Bromoform (spcc)	50.000	54.650	109.30	70-130
	70 Isopropylbenzene	50.000	46.079	92.16	70-130
	72 Bromobenzene	50.000	51.314	102.63	70-130
	73 1,1,2,2-Tetrachlor	50.000	53.308	106.62	70-130
	76 n-Propylbenzene	50.000	50.547	101.09	70-130
	74 1,2,3-Trichloropro	50.000	50.971	101.94	70-130
	77 2-Chlorotoluene	50.000	49.704	99.41	70-130
	78 1,3,5-Trimethylben	50.000	52.531	105.06	70-130
	79 4-Chlorotoluene	50.000	50.010	100.02	70-130
	80 tert-Butylbenzene	50.000	50.974	101.95	70-130
	81 1,2,4-Trimethylben	50.000	51.075	102.15	70-130
	82 sec-Butylbenzene	50.000	53.345	106.69	70-130
	83 1,3-Dichlorobenzen	50.000	49.950	99.90	70-130
	84 p-Isopropyltoluene	50.000	49.124	98.25	70-130
	85 1,4-Dichlorobenzen	50.000	50.517	101.03	70-130
	87 n-Butylbenzene	50.000	51.156	102.31	70-130
	86 1,2-Dichlorobenzen	50.000	48.174	96.35	70-130
	88 1,2-Dibromo-3-chlo	50.000	48.620	97.24	70-130
	89 1,2,4-Trichloroben	50.000	51.178	102.36	70-130
	90 Hexachlorobutadien	50.000	56.153	112.31	70-130
	91 Napthalene	50.000	52.441	104.88	70-130
	92 1,2,3-Trichloroben	50.000	53.604	107.21	70-130

	SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
$	5 1,2-Dichloroethane	50.000	48.507	97.01	71-127
$	4 Dibromofluorometha	50.000	51.825	103.65	79-120
$	6 Toluene-d8	50.000	52.081	104.16	80-120
$	7 4-Bromofluorobenze	50.000	49.166	98.33	69-126


Data File: /var/chem/gcms/mz.i/Z032406I.b/h10ce1ac.d
Date : 24-MAR-2006 17:21
Client ID: INTRA-LAB CHECK
Sample Info: H10CE1AC,1,3,,LCS & 2ND SOURCE
Purge Volume: 5.0
Column phase: J+W 624
Instrument: mz.i
Operator: 22980
Column diameter: 0.18
Y (x10^6)
Min
/var/chem/gcms/mz.i/Z032406I.b/h10ce1ac.d
-Dibromofluoromethane+
-1,2-Dichloroethane-d4+
-Fluorobenzene
-Toluene-d8
-Chlorobenzene-d5+
-4-Bromofluorobenzene
-1,4 Dichlorobenzene-d4+

Data File: /chem/gcms/mz.i/Z032806.b/lcsact.d
Report Date: 28-Mar-2006 13:45

STL Knoxville

Volatile Organics by GC/MS

Data file : /chem/gcms/mz.i/Z032806.b/lcsact.d
Lab Smp Id: lcs Client Smp ID: .opc not found
Inj Date : 28-MAR-2006 13:29
Operator : 22980 Inst ID: mz.i
Smp Info : lcs,1,3,,ACETONELCS
Misc Info : Z032806,8260B_LM,ss.sub
Comment : Volatile Organics by GC/MS
Method : /chem/gcms/mz.i/Z032806.b/8260B_LM.m
Meth Date : 28-Mar-2006 13:00 chemist Quant Type: ISTD
Cal Date : 24-MAR-2006 13:51 Cal File: icvzc248.d
Als bottle: 1 QC Sample: ACETONELCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ss.sub
Target Version: 3.50
Processing Host: qmidhp01

Concentration Formula: Amt * DF * Uf*Vt/(Vo*1000) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Unit Correction factor
Vt	25000.00000	Sample Volume Purged
Vo	25.00000	Sample Volume Used

Cpnd Variable Local Compound Variable

Acetone Only

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
* 1 Fluorobenzene	96	5.663	5.666	(1.000)	995029	10.0000	
* 2 Chlorobenzene-d5	119	8.929	8.932	(1.000)	181149	10.0000	
* 3 1,4 Dichlorobenzene-d4	152	11.484	11.481	(1.000)	227793	10.0000	
$ 5 1,2-Dichloroethane-d4	65	5.224	5.228	(0.923)	144042	10.4474	10.447
$ 4 Dibromofluoromethane	113	4.823	4.820	(0.852)	167606	10.5122	10.512
$ 6 Toluene-d8	98	7.457	7.454	(0.835)	803220	10.0915	10.091
$ 7 4-Bromofluorobenzene	95	10.122	10.119	(0.881)	219416	9.55106	9.5511
11 Chloromethane (spcc)	50	1.124	1.121	(0.199)	230481	3.56270	3.5627
12 Vinyl Chloride (ccc)	62	1.191	1.194	(0.210)	5545	0.14149	0.14149
15 Bromomethane	94	1.410	1.407	(0.249)	44816	5.05628	5.0563
20 1,1-Dichloroethene (ccc)	96	2.067	2.058	(0.365)	3043	0.14071	0.14071
23 *Iodomethane	142	2.177	2.174	(0.384)	2645246	102.600	102.60(A)
24 Carbon Disulfide	76	2.231	2.228	(0.394)	7700001	100.868	100.87(A)
22 Acetone	43	2.122	2.125	(0.375)	155799	86.0674	86.067

Spike Level 80ppb
108% Recovery
% Difference for Acetone

Data File: /chem/gcms/mz.i/Z032806.b/lcsact.d
Report Date: 28-Mar-2006 13:45

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
	==========	====	==	======	======	========	=======	=======
	30 trans-1,2-Dichloroethene	96	2.791	2.788	(0.493)	6415	0.23499	0.23499
	33 1,1-Dichloroethane (spcc)	63	3.278	3.275	(0.579)	13661	0.21650	0.21650
	34 *Vinyl Acetate	86	3.399	3.403	(0.600)	111189	83.8141	83.814(A)
	35 2,2-Dichloropropane	77	4.087	4.090	(0.722)	4373	0.13640	0.13640
	36 cis 1,2-Dichloroethene	96	4.117	4.108	(0.727)	5835	0.23159	0.23159
M	8 1,2-Dichloroethene (total)	96				12251	0.46658	0.46658
	37 2-Butanone	43	4.172	4.175	(0.737)	333655	88.4963	88.496
	40 Chloroform (ccc)	83	4.616	4.607	(0.815)	8361	0.23256	0.23256
	41 1,1,1-Trichloroethane	97	4.811	4.814	(0.850)	4518	0.14199	0.14198
	43 1,1-Dichloropropene	75	5.048	5.039	(0.891)	4635	0.13594	0.13594
	44 Benzene	78	5.285	5.288	(0.933)	25238	0.25721	0.25721
	45 1,2-Dichloroethane	62	5.328	5.325	(0.941)	3027	0.14571	0.14571
	46 Trichloroethene	130	6.107	6.104	(1.078)	5704	0.20668	0.20668
	47 1,2-Dichloropropane (ccc)	63	6.350	6.341	(1.121)	4701	0.17535	0.17535
	49 Dibromomethane	93	6.478	6.469	(1.144)	669	0.11997	0.11997
	50 Bromodichloromethane	83	6.685	6.682	(1.180)	3314	0.91219	0.91219
	52 cis-1,3-Dichloropropene	75	7.177	7.180	(1.268)	3078	0.14141	0.14141
	53 4-Methyl-2-pentanone	43	7.378	7.375	(1.303)	822490	94.6548	94.655
	54 Toluene (ccc)	91	7.524	7.521	(0.843)	21641	0.20993	0.20992
	55 trans-1,3-Dichloropropene	75	7.780	7.783	(0.871)	1971	0.74492	0.74492
	57 1,1,2-Trichloroethane	97	7.968	7.959	(0.892)	962	0.11503	0.11503
	58 Tetrachloroethene	164	8.096	8.093	(0.907)	3399	0.15900	0.15900
	59 1,3-Dichloropropane	76	8.120	8.117	(0.909)	1930	0.13162	0.13162
	60 2-Hexanone	43	8.254	8.251	(0.924)	540014	96.3321	96.332
	61 Chlorodibromomethane	129	8.345	8.342	(0.935)	982	0.87407	0.87407
	62 1,2-Dibromoethane	107	8.437	8.434	(0.945)	955	0.12753	0.12753
	63 Chlorobenzene (spcc)	112	8.960	8.957	(1.003)	14706	0.25558	0.25558
	65 Ethylbenzene (ccc)	106	9.094	9.091	(1.018)	8373	0.22586	0.22586
	64 1,1,1,2-Tetrachloroethane	131	9.051	9.054	(1.014)	2292	0.47594	0.47594
	66 m&p-Xylene	106	9.215	9.218	(1.032)	20806	0.46420	0.46420
	67 o-Xylene	106	9.605	9.608	(1.076)	10070	0.25438	0.25438
M	9 Xylene (total)	106				30877	0.71859	0.71859
	68 Styrene	104	9.623	9.620	(1.078)	16844	0.30304	0.30304
	69 Bromoform (spcc)	173	9.769	9.778	(1.094)	202	0.87146	0.87146
	70 Isopropylbenzene	105	9.988	9.991	(1.119)	19859	0.17446	0.17446
	72 Bromobenzene	156	10.249	10.253	(1.148)	4615	0.27284	0.27284
	73 1,1,2,2-Tetrachloroethane(sp)	83	10.286	10.289	(1.152)	1411	0.22619	0.22619
	76 n-Propylbenzene	91	10.402	10.405	(0.906)	28271	0.20505	0.20505
	74 1,2,3-Trichloropropane	110	10.310	10.313	(0.898)	306	0.15615	0.15615
	77 2-Chlorotoluene	91	10.475	10.472	(0.912)	21370	0.29225	0.29225
	78 1,3,5-Trimethylbenzene	105	10.608	10.611	(0.924)	23923	0.25787	0.25787
	79 4-Chlorotoluene	91	10.596	10.599	(0.923)	21845	0.28123	0.28123
	80 tert-Butylbenzene	119	10.986	10.989	(0.957)	17269	0.20791	0.20791
	81 1,2,4-Trimethylbenzene	105	11.052	11.049	(0.962)	27037	0.31019	0.31019
	82 sec-Butylbenzene	105	11.278	11.281	(0.982)	26515	0.21655	0.21655
	83 1,3-Dichlorobenzene	146	11.381	11.384	(0.991)	15643	0.39232	0.39232
	84 p-Isopropyltoluene	119	11.497	11.500	(1.001)	25581	0.23811	0.23811

Data File: /chem/gcms/mz.i/Z032806.b/lcsact.d
Report Date: 28-Mar-2006 13:45

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)
85	1,4-Dichlorobenzene	146	11.515	11.518	(1.003)	14900	0.40173	0.40173
87	n-Butylbenzene	91	12.141	12.138	(1.057)	29455	0.30653	0.30653
86	1,2-Dichlorobenzene	146	12.074	12.071	(1.051)	12927	0.43946	0.43946
88	1,2-Dibromo-3-chloropropane	157	13.255	13.252	(1.154)	604	1.29726	1.2972
89	1,2,4-Trichlorobenzene	180	14.289	14.292	(1.244)	27820	1.56033	1.5603
90	Hexachlorobutadiene	225	14.526	14.529	(1.265)	13890	0.83073	0.83073
91	Napthalene	128	14.544	14.541	(1.266)	36719	1.96386	1.9639
92	1,2,3-Trichlorobenzene	180	14.818	14.815	(1.290)	29459	2.50824	2.5082

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.

Data File: /chem/gcms/mz.i/Z032806.b/lcsact.d
Report Date: 28-Mar-2006 13:45

STL Knoxville

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: mz.i
Lab File ID: lcsact.d
Lab Smp Id: lcs
Analysis Type: VOA
Quant Type: ISTD
Operator: 22980
Method File: /chem/gcms/mz.i/Z032806.b/8260B_LM.m
Misc Info: Z032806,8260B_LM,ss.sub

Calibration Date: 28-MAR-2006
Calibration Time: 12:43
Client Smp ID: .opc not found
Level: LOW
Sample Type: WATER

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	1026761	513380	2053522	995029	-3.09
2 Chlorobenzene-d5	189231	94616	378462	181149	-4.27
3 1,4 Dichlorobenze	222795	111398	445590	227793	2.24

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	5.67	5.17	6.17	5.66	-0.05
2 Chlorobenzene-d5	8.93	8.43	9.43	8.93	-0.03
3 1,4 Dichlorobenze	11.48	10.98	11.98	11.48	0.03

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

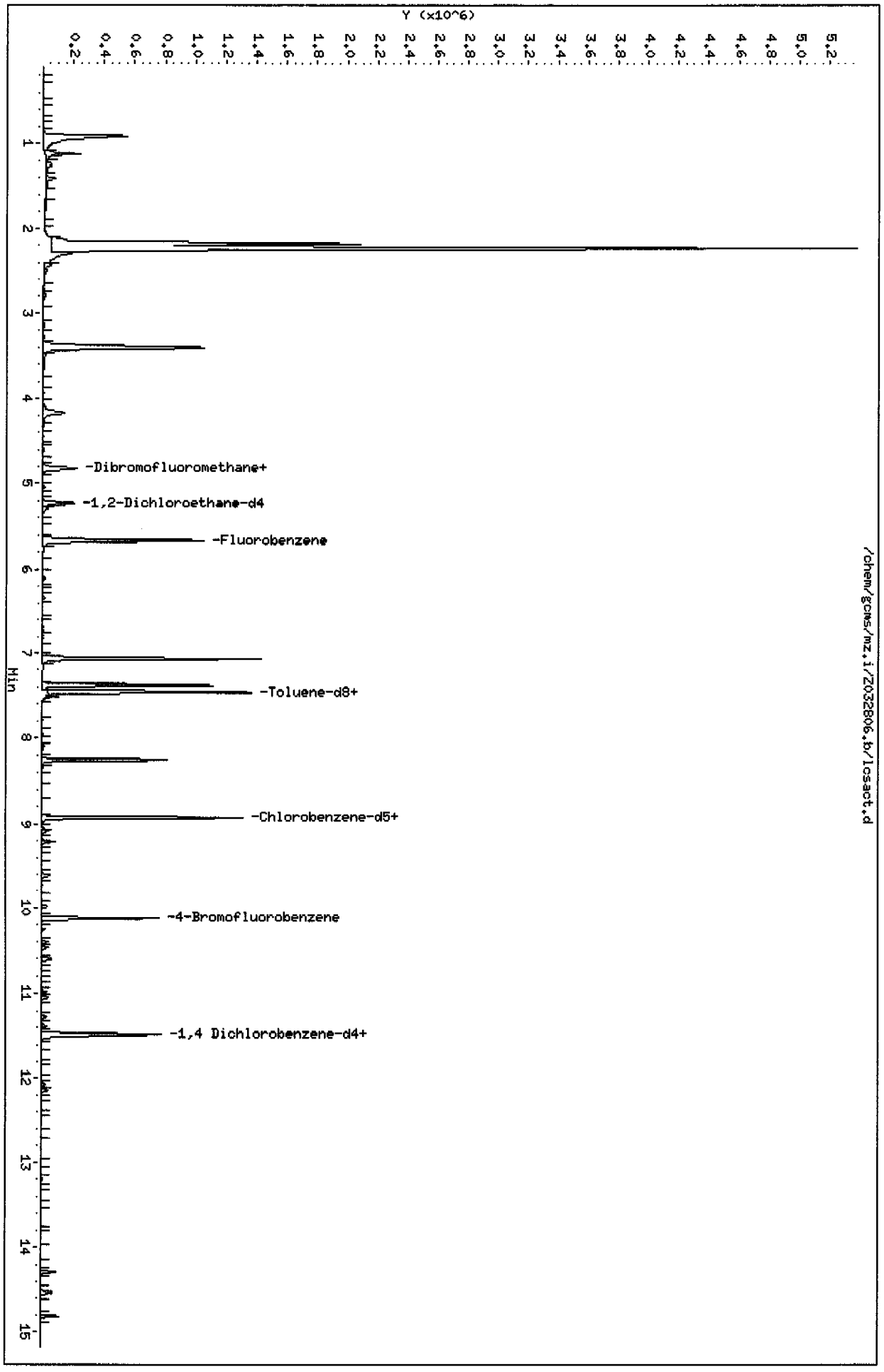
Data File: /chem/gcms/mz.i/Z032806.b/lcsact.d
Report Date: 28-Mar-2006 13:45

STL Knoxville

RECOVERY REPORT

Client Name:
Client SDG: Z032806
Sample Matrix: LIQUID
Fraction: VOA
Lab Smp Id: lcs
Client Smp ID: .opc not found
Level: LOW
Operator: 22980
Data Type: MS DATA
SampleType: ACETONELCS
SpikeList File: ssallcmpds.spk
Quant Type: ISTD
Sublist File: ss.sub
Method File: /chem/gcms/mz.i/Z032806.b/8260B_LM.m
Misc Info: Z032806,8260B_LM,ss.sub

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
$ 5 1,2-Dichloroethane	10.000	10.447	104.47	71-127
$ 4 Dibromofluorometha	10.000	10.512	105.12	79-120
$ 6 Toluene-d8	10.000	10.091	100.91	80-120
$ 7 4-Bromofluorobenze	10.000	9.5511	95.51	69-126


Data File: /chem/gcms/mz.i/Z032806.b/lcsact.d
Date : 28-MAR-2006 13:29
Client ID: ,epc not found
Sample Info: lcs,1,3,,ACETONELCS
Purge Volume: 25.0
Column phase: J+W 624
Instrument: mz.i
Operator: 22980
Column diameter: 0.18
Y (x10^6)
Min
-Dibromofluoromethane+
-1,2-Dichloroethane-d4
-Fluorobenzene
-Toluene-d8+
-Chlorobenzene-d5+
-4-Bromofluorobenzene
-1,4 Dichlorobenzene-d4+
/chem/gcms/mz.i/Z032806.b/lcsact.d

STL Volatile GC/MS Continuing Calibration Review / Narrative Checklist
Method: 8260B - KNOX-MS-0015, Rev. 8

Analysis Date:	04/05/06	CCAL Batch/ Scan Name:	Z041050C	Instrument:	MZ	ICAL Batch/ Scan Name:	Z032406cI	Scanned □

Review Items	N/A	Yes	No	If No, why is data reportable?	2nd ✓
1. Did BFB meet tune criteria?		✓			✓
2. Were all standards injected within 12 hr of BFB?		✓			✓
3. Was date/time of analysis verified between analysis header and logbook as correct?		✓			✓
4. Was the primary ion used for all compounds?		✓		□*Secondary ion used due to interferences for:*_____	✓
5. Do the RFs for SPCCs meet minimum RF?		✓			✓
6. Is the %D or drift ≤20% for all CCCs?		✓			✓
7. Is the %D or drift ≤ 50% for all other compounds? [Up to 6 TCLs may have %D or drift > 50%; any more and the calibration is INVALID].		✓		□ %D or drift > 50% for the following TCLs: _____	✓
8. Are the internal standard responses within limits? 8260B: 50-200% of the mid-level ICAL standard		✓			✓
9. Are the internal standard retention times within limits? 8260B: 30 seconds of the mid-level ICAL standard		✓			✓
10. If manual integrations were performed, are they clearly identified, initialed, dated and reason given?	✓			Reasons: 1)Corrected split peak; 2)Unresolved peak; 3)tailing; 4)RT shift; 5)wrong peak selected; 6)other	NA
11. Have alternate hits/manual integrations been verified as correct and are correct RFs listed in CCAL summary?	✓				NA
12. Was the correct ICAL used for quantitation? (Verify date & time of ICAL is documented correctly on CCAL)		✓			✓
13. Is the first IS documented correctly on the log?		✓			✓
14. Elution order checked on isomeric pairs/coeluters?		✓			✓
• hexane and vinyl acetate		✓			✓
• cis- and trans- isomers		✓			✓
• trichlorofluoromethane and Freon 113		✓			✓
• ethyl benzene / m/p-xylene / o-xylene		✓			✓
• n-propylbenzene / 2-chlorotoluene / 4-chlorotoluene		✓			✓
• 1,3,5-trimethylbenzene / 1,2,4-trimethylbenzene / sec-butylbenzene		✓			✓
• 1,3- , 1,4- , and 1,2-dichlorobenzene		✓			✓
• 1,2,4 and 1,2,3 -trichlorobenzene		✓			✓
• chlorobenzene-d5 and 1,1,1,2-tetrachloroethane		✓			✓
15. If criteria were not met, was a NCM generated, approved by supervisor, and copy included in folder?	✓				NA
16. Does the CCAL folder contain **complete** data in the following order? Data review checklist, tune pass/fail page, m/z list, tune chromatogram, Target CCAL summary, Quan report, chromatogram and manual integrations.		✓			✓

Analyst: MT	**Date:** 4/5/06	**2nd Level Reviewer :**	**Date:** 4/5/06 1-4/6/06
Comments:		**Comments:**	

STL Knoxville GC/MS Volatiles Run Log - Instrument MZ

Target Batch	Z040506	XXXXXXXXX	XXXXXXXXX	Loop #	=	3
QuantIMS Batch	60095253	—	—	Standard ID	=	VOA-60499
Method	8260B	XXXXXXXXX	XXXXXXXXX	Matrix	=	Water
SOP#	KnoxMS005	XXXXXXXXX	XXXXXXXXX	IS Amt/ID	=	4.7 mL
Intitial Cal Batch	Z032406I	XXXXXXXXX	XXXXXXXXX	SS Amt/ID	=	↓
CCAL IS Areas	1078707	1488899	220143	Heated?		Y (N)

☑ Date/Time Verified Preventive Maintenance Performed ☑ NA or ☐ _____

Lot	Lab File ID	Time	ALS #	Loop #	Solatek Dilution Factor	MS Dilution Factor	Volume/ Weight Purged	pH	Init	Standards ID/Spike ID/ and/or Comments
Tune	BFB2D04	1425	—	—	—	1	—	NA	MT	1uL VOA 60493
CCV	CCV2D043	1442	1	3	1		25mL			5uL VOA 60496 → 50mL
LCS	H2MQQ1AC	1505	2							↓
BLK	BLK1	1529	3							
↓	H2MQQ1AA	1552	4					↓		
C150107	H08572AA	1615	5					12		
↓	H08582AA	1639	6					↓		
D030104	H2GMA1AA	1702	7					NA		
↓	H2GMD1AA	1725	8					↓		
D030109	H2HC11AA	1749	9					↓		
D030205	H2HPA1AA	1812	10					12		
D030109	H2G9H1AA	1836	11					NA		
	HAD	1859	12							
	HCR ↓	1922	13							
	G9H1AC	1946	14							
	HAD	2009	15							
	↓ HCR ↓	2033	16					↓		
MS	H2HPA1AC	2056	17					12		5uL VOA 60496 → 50mL
MSD	H2HPA1AD	2120	18			↓		↓		↓
D030114	H2GKV1AA	2143	19			20000		7		~~5uL~~ 25mL → 50mL 1/5000
↓	H2GKN1AA	2206	20			10000		↓		5mL → 50mL RR 1/2000
D030205	H2HQT1AA	2230	21			1		12		
	QW	2253	22					7		
	QD	2316	23					↓		
	RA	2340	24					4		
	RF	0003	25					7		
	↓ RH ↓	0027	26	↓	↓	↓	↓	↓	↓	
			MT	4/6/06						

Analyst/Date: MT / 4/6/06

Data File: /var/chem/gcms/mz.i/Z040506.b/bfbzd04.d

Date : 05-APR-2006 14:25

Client ID:

Instrument: mz.i

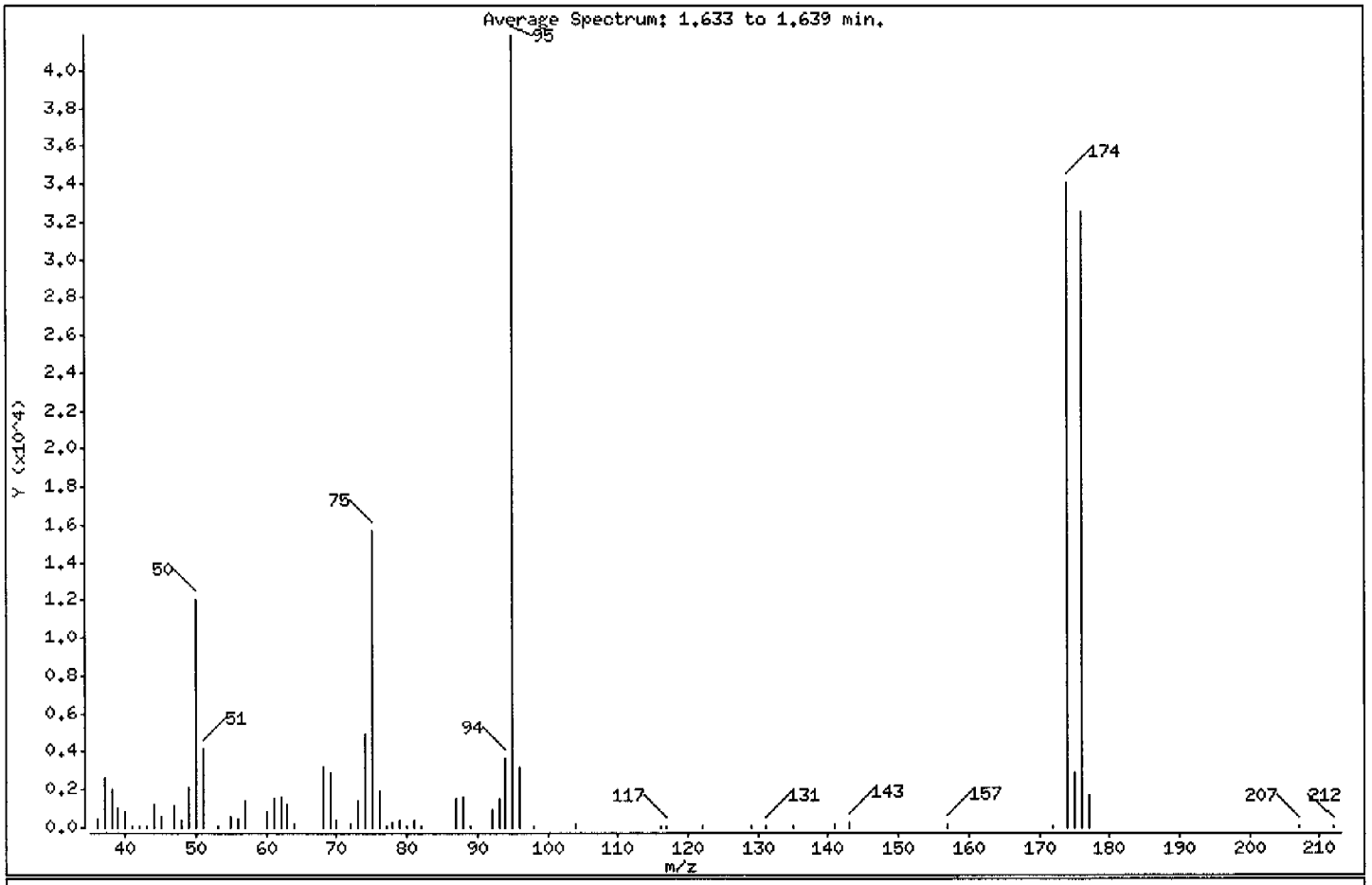
Sample Info: BFBZD04,1,3,,BFB

Operator: 063605

Column phase: J & W 624

Column diameter: 0.18

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	28.77
75	30.00 - 60.00% of mass 95	37.41
96	5.00 - 9.00% of mass 95	7.53
173	Less than 2.00% of mass 174	0.00 (0.00)
174	50.00 - 120.00% of mass 95	81.35
175	5.00 - 9.00% of mass 174	6.99 (8.60)
176	95.00 - 101.00% of mass 174	77.81 (95.65)
177	5.00 - 9.00% of mass 176	4.08 (5.24)

Data File: /var/chem/gcms/mz.i/Z040506.b/bfbzd04.d

Date : 05-APR-2006 14:25

Client ID:

Instrument: mz.i

Sample Info: BFBZD04,1,3,,BFB

Operator: 063605

Column phase: J & W 624

Column diameter: 0.18

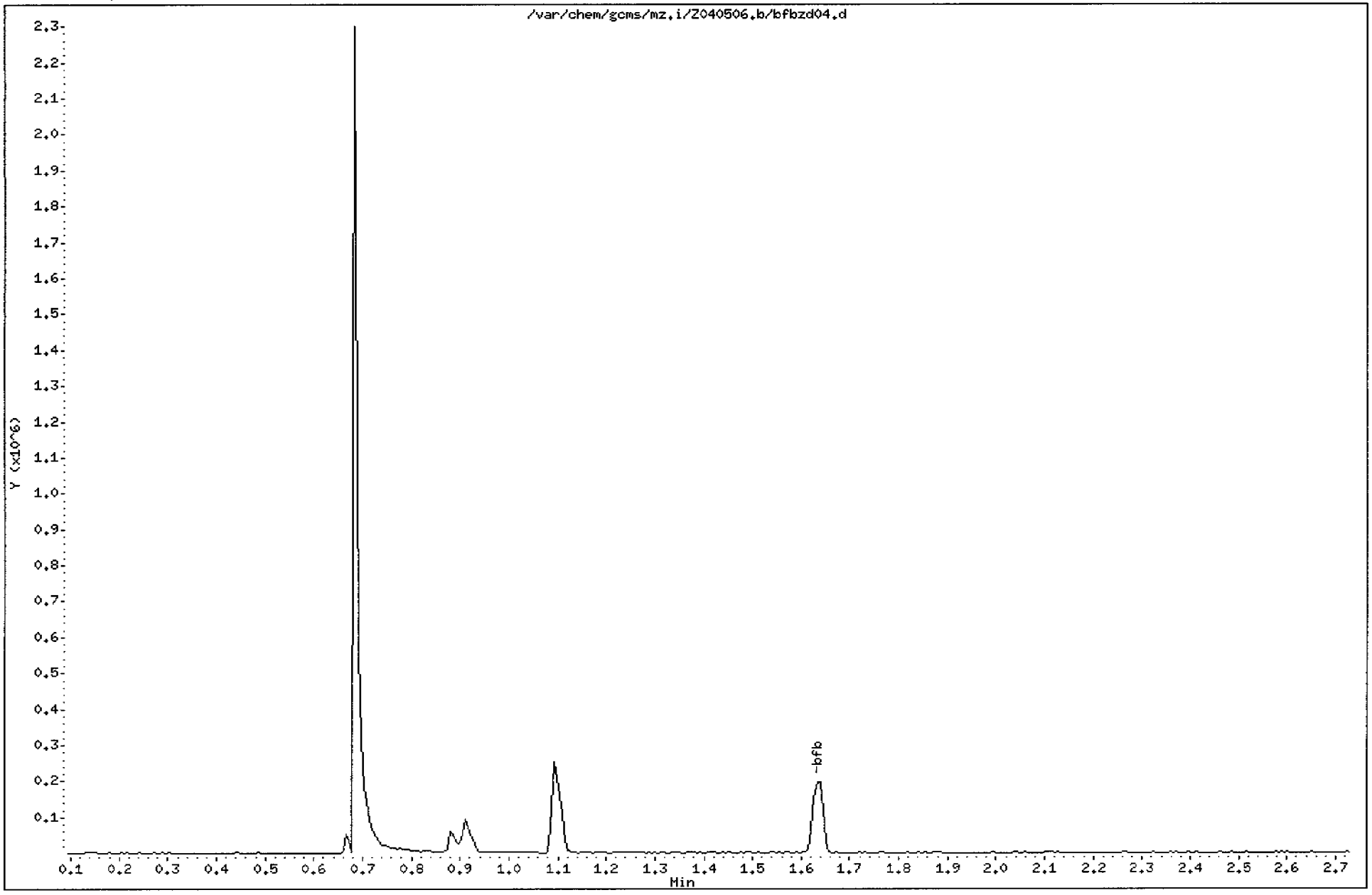
Data File: bfbzd04.d
Spectrum: Average Spectrum: 1.633 to 1.639 min.
Location of Maximum: 95.00
Number of points: 64

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	492	56.00	473	79.00	404	129.00	87
37.00	2573	57.00	1411	80.00	82	131.00	92
38.00	2022	60.00	890	81.00	415	135.00	88
39.00	1072	61.00	1542	82.00	82	141.00	230
40.00	861	62.00	1684	87.00	1563	143.00	243
41.00	98	63.00	1213	88.00	1612	157.00	155
42.00	143	64.00	193	89.00	76	172.00	136
43.00	107	68.00	3177	92.00	988	174.00	34096
44.00	1207	69.00	2871	93.00	1560	175.00	2931
45.00	617	70.00	354	94.00	3680	176.00	32608
47.00	1182	72.00	202	95.00	41912	177.00	1708
48.00	352	73.00	1451	96.00	3158	207.00	110
49.00	2145	74.00	4882	98.00	94	212.00	107
50.00	12058	75.00	15680	104.00	191		
51.00	4187	76.00	1889	116.00	98		
53.00	90	77.00	85	117.00	137		
55.00	607	78.00	264	122.00	98		

Data File: /var/chem/gcms/mz.i/Z040506.b/bfbzd04.d
Date : 05-APR-2006 14:25
Client ID:
Sample Info: BFBZD04,1,3,,BFB

Instrument: mz.i
Operator: 063605
Column diameter: 0.18

Column phase: J & W 624



Data File: /chem/gcms/mz.i/Z040506.b/ccvzd043.d
Report Date: 05-Apr-2006 15:00

STL Knoxville

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: mz.i
Lab File ID: ccvzd043.d
Analysis Type: WATER
Lab Sample ID: CCVZD043
Method: /var/chem/gcms/mz.i/Z040506.b/8260B_LM.m

Injection Date: 05-APR-2006 14:42
Init. Cal. Date(s): 24-MAR-2006 24-MAR-2006
Init. Cal. Times: 13:51 16:34
Quant Type: ISTD

			CCAL	MIN		MAX	
COMPOUND	RRF / AMOUNT	RF10	RRF10	RRF	%D / %DRIFT	%D / %DRIFT	CURVE TYPE
$ 4 Dibromofluoromethane	0.16024	0.16944	0.16944	0.000	-5.74449	50.00000	Averaged
$ 5 1,2-Dichloroethane-d4	0.13856	0.13960	0.13960	0.000	-0.75058	50.00000	Averaged
$ 6 Toluene-d8	4.39383	4.62663	4.62663	0.000	-5.29848	50.00000	Averaged
$ 7 4-Bromofluorobenzene	1.00850	0.96644	0.96644	0.000	4.17051	50.00000	Averaged
M 8 1,2-Dichloroethene (total)	0.26636	0.22854	0.22854	0.000	14.19724	50.00000	Averaged
M 9 Xylene (total)	2.45452	2.22892	2.22892	0.000	9.19138	50.00000	Averaged
10 Dichlorodifluoromethane	0.24410	0.21717	0.21717	0.000	11.03120	50.00000	Averaged
11 Chloromethane (spcc)	10.05828	10.00000	0.59514	0.100	-0.58281	50.00000	Wt Linear
12 Vinyl Chloride (ccc)	0.39386	0.36524	0.36524	0.000	7.26717	19.00000	Averaged
13 *1,3-Butadiene	0.35518	0.31767	0.31767	0.000	10.55902	50.00000	Averaged
15 Bromomethane	7.37810	10.00000	0.06981	0.000	26.21900	50.00000	Wt Linear
16 Chloroethane	0.18650	0.16334	0.16334	0.000	12.41631	50.00000	Averaged
17 *Vinyl Bromide	0.16661	0.15620	0.15620	0.000	6.24775	50.00000	Averaged
18 Trichlorofluoromethane	0.30565	0.26967	0.26967	0.000	11.77141	50.00000	Averaged
19 *2-Chloropropane	0.66154	0.55698	0.55698	0.000	15.80490	50.00000	Averaged
20 1,1-Dichloroethene (ccc)	0.21734	0.20910	0.20910	0.000	3.78978	19.00000	Averaged
21 *Freon 113	0.16920	0.17598	0.17598	0.000	-4.00758	50.00000	Averaged
22 Acetone	35.92004	40.00000	0.02224	0.000	10.19991	50.00000	Quadratic
23 *Iodomethane	9.59276	10.00000	0.23623	0.000	4.07237	50.00000	Wt Linear
24 Carbon Disulfide	0.76719	0.67842	0.67842	0.000	11.57051	50.00000	Averaged
25 *2-propanol	++++	0.00106	0.00106	0.000	++++	50.00000	Averaged
26 *Acetonitrile	0.00445	0.00476	0.00476	0.000	-6.75181	50.00000	Averaged
27 Methylene Chloride	0.16724	0.14752	0.14752	0.000	11.79282	50.00000	Averaged
28 *t-butanol	++++	0.00281	0.00281	0.000	++++	50.00000	Averaged
29 *Acrylonitrile	0.03734	0.03411	0.03411	0.000	8.65411	50.00000	Averaged
30 trans-1,2-Dichloroethene	0.27436	0.24246	0.24246	0.000	11.62620	50.00000	Averaged
31 *MTBE	0.24065	0.19448	0.19448	0.000	19.18769	50.00000	Averaged
32 *Hexane	0.70295	0.65170	0.65170	0.000	7.28969	50.00000	Averaged
33 1,1-Dichloroethane (spcc)	0.63418	0.53615	0.53615	0.100	15.45717	50.00000	Averaged
34 *Vinyl Acetate	0.01333	0.01073	0.01073	0.000	19.50828	50.00000	Averaged
35 2,2-Dichloropropane	0.32221	0.26439	0.26439	0.000	17.94464	50.00000	Averaged
36 cis 1,2-Dichloroethene	0.25325	0.21462	0.21462	0.000	15.25501	50.00000	Averaged
37 2-Butanone	0.03789	0.03371	0.03371	0.000	11.03508	50.00000	Averaged
38 Bromochloromethane	0.06964	0.06468	0.06468	0.000	7.11605	50.00000	Averaged
39 *THF	0.02373	0.02122	0.02122	0.000	10.54946	50.00000	Averaged

NA
NT
4/5/06

Data File: /chem/gcms/mz.i/Z040506.b/ccvzd043.d
Report Date: 05-Apr-2006 15:00

STL Knoxville

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: mz.i
Lab File ID: ccvzd043.d
Analysis Type: WATER
Lab Sample ID: CCVZD043
Method: /var/chem/gcms/mz.i/Z040506.b/8260B_LM.m

Injection Date: 05-APR-2006 14:42
Init. Cal. Date(s): 24-MAR-2006 24-MAR-2006
Init. Cal. Times: 13:51 16:34
Quant Type: ISTD

COMPOUND	RRF / AMOUNT	RF10	CCAL RRF10	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
40 Chloroform (ccc)	0.36132	0.30474	0.30474	0.000	15.65965	19.00000	Averaged
41 1,1,1-Trichloroethane	0.31980	0.27866	0.27866	0.000	12.86479	50.00000	Averaged
42 Carbon Tetrachloride	7.06978	10.00000	0.17972	0.000	29.30220	50.00000	Wt Linear
43 1,1-Dichloropropene	0.34268	0.29870	0.29870	0.000	12.83351	50.00000	Averaged
44 Benzene	0.98616	0.80987	0.80987	0.000	17.87628	50.00000	Averaged
45 1,2-Dichloroethane	0.20883	0.17992	0.17992	0.000	13.83994	50.00000	Averaged
46 Trichloroethene	0.27740	0.25176	0.25176	0.000	9.24334	50.00000	Averaged
47 1,2-Dichloropropane (ccc)	0.26944	0.23541	0.23541	0.000	12.63082	19.00000	Averaged
48 *Methyl Methacrylate	0.08839	0.07247	0.07247	0.000	18.01817	50.00000	Averaged
49 Dibromomethane	0.05611	0.04802	0.04802	0.000	14.41808	50.00000	Averaged
50 Bromodichloromethane	8.36664	10.00000	0.14280	0.000	16.33363	50.00000	Linear
51 *2-Chloroethylvinylether	0.06115	0.04048	0.04048	0.000	33.80926	50.00000	Averaged
52 cis-1,3-Dichloropropene	0.21878	0.18434	0.18434	0.000	15.74142	50.00000	Averaged
53 4-Methyl-2-pentanone	0.08733	0.07699	0.07699	0.000	11.83374	50.00000	Averaged
54 Toluene (ccc)	5.69105	5.01491	5.01491	0.000	11.88086	19.00000	Averaged
55 trans-1,3-Dichloropropene	7.52669	10.00000	0.62776	0.000	24.73310	50.00000	Linear
56 *Ethyl Methacrylate	0.48617	0.39208	0.39208	0.000	19.35457	50.00000	Averaged
57 1,1,2-Trichloroethane	0.46191	0.39898	0.39898	0.000	13.62296	50.00000	Averaged
58 Tetrachloroethene	1.18042	1.07205	1.07205	0.000	9.18076	50.00000	Averaged
59 1,3-Dichloropropane	0.80964	0.68899	0.68899	0.000	14.90207	50.00000	Averaged
60 2-Hexanone	0.30945	0.29133	0.29133	0.000	5.85664	50.00000	Averaged
61 Chlorodibromomethane	7.69885	10.00000	0.36482	0.000	23.01152	50.00000	Wt Linear
62 1,2-Dibromoethane	0.41364	0.35306	0.35306	0.000	14.64578	50.00000	Averaged
63 Chlorobenzene (spcc)	3.17641	2.85555	2.85555	0.300	10.10133	50.00000	Averaged
64 1,1,1,2-Tetrachloroethane	7.48771	10.00000	0.59233	0.000	25.12290	50.00000	Wt Linear
65 Ethylbenzene (ccc)	2.04670	1.92519	1.92519	0.000	5.93673	19.00000	Averaged
66 m&p-Xylene	2.47429	2.32787	2.32787	0.000	5.91766	50.00000	Averaged
67 o-Xylene	2.18540	2.03102	2.03102	0.000	7.06413	50.00000	Averaged
68 Styrene	3.06833	2.71669	2.71669	0.000	11.46050	50.00000	Averaged
69 Bromoform (spcc)	9.18658	10.00000	0.13915	0.100	8.13419	50.00000	Quadratic
70 Isopropylbenzene	6.28402	5.77298	5.77298	0.000	8.13231	50.00000	Averaged
71 *cis-1,4-dichloro-2-butene	7.17061	10.00000	0.05036	0.000	28.29389	50.00000	Quadratic
72 Bromobenzene	0.93391	0.82165	0.82165	0.000	12.02056	50.00000	Averaged
73 1,1,2,2-Tetrachloroethane(s	0.34456	0.31352	0.31352	0.300	9.01066	50.00000	Averaged
74 1,2,3-Trichloropropane	0.08610	0.07875	0.07875	0.000	8.52773	50.00000	Averaged

Data File: /chem/gcms/mz.i/Z040506.b/ccvzd043.d
Report Date: 05-Apr-2006 15:00

STL Knoxville

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: mz.i
Lab File ID: ccvzd043.d
Analysis Type: WATER
Lab Sample ID: CCVZD043
Method: /var/chem/gcms/mz.i/Z040506.b/8260B_LM.m

Injection Date: 05-APR-2006 14:42
Init. Cal. Date(s): 24-MAR-2006 24-MAR-2006
Init. Cal. Times: 13:51 16:34
Quant Type: ISTD

			CCAL	MIN		MAX	
COMPOUND	RRF / AMOUNT	RF10	RRF10	RRF	%D / %DRIFT	%D / %DRIFT	CURVE TYPE
75 *trans-1,4-dichloro-2-buten	8.28269	10.00000	0.10226	0.000	17.17311	50.00000	Wt Linear
76 n-Propylbenzene	6.05285	5.76048	5.76048	0.000	4.83028	50.00000	Averaged
77 2-Chlorotoluene	3.21004	2.94356	2.94356	0.000	8.30131	50.00000	Averaged
78 1,3,5-Trimethylbenzene	4.07272	3.95191	3.95191	0.000	2.96628	50.00000	Averaged
79 4-Chlorotoluene	3.41012	3.24428	3.24428	0.000	4.86332	50.00000	Averaged
80 tert-Butylbenzene	3.64650	3.53150	3.53150	0.000	3.15374	50.00000	Averaged
81 1,2,4-Trimethylbenzene	3.82646	3.63388	3.63388	0.000	5.03287	50.00000	Averaged
82 sec-Butylbenzene	5.37516	5.18534	5.18534	0.000	3.53144	50.00000	Averaged
83 1,3-Dichlorobenzene	1.75048	1.59177	1.59177	0.000	9.06654	50.00000	Averaged
84 p-Isopropyltoluene	4.71643	4.57444	4.57444	0.000	3.01038	50.00000	Averaged
85 1,4-Dichlorobenzene	1.62825	1.48905	1.48905	0.000	8.54895	50.00000	Averaged
86 1,2-Dichlorobenzene	1.29143	1.21673	1.21673	0.000	5.78412	50.00000	Averaged
87 n-Butylbenzene	4.21842	4.07261	4.07261	0.000	3.45669	50.00000	Averaged
88 1,2-Dibromo-3-chloropropane	6.54634	10.00000	0.02899	0.000	34.53663	50.00000	Wt Linear
89 1,2,4-Trichlorobenzene	0.78272	0.69330	0.69330	0.000	11.42422	50.00000	Averaged
90 Hexachlorobutadiene	0.73404	0.72011	0.72011	0.000	1.89689	50.00000	Averaged
91 Napthalene	0.82082	0.70122	0.70122	0.000	14.57112	50.00000	Averaged
92 1,2,3-Trichlorobenzene	0.51561	0.46521	0.46521	0.000	9.77532	50.00000	Averaged
M 93 *1,4-dichloro-2-butene(tota	0.10257	0.08477	0.08477	0.000	17.35986	50.00000	Averaged

Data File: /chem/gcms/mz.i/Z040506.b/ccvzd043.d
Report Date: 05-Apr-2006 15:00

STL Knoxville

Volatile Organics by GC/MS

Data file : /chem/gcms/mz.i/Z040506.b/ccvzd043.d
Lab Smp Id: CCVZD043 Client Smp ID: STD10
Inj Date : 05-APR-2006 14:42
Operator : 063605 Inst ID: mz.i
Smp Info : CCVZD043,1,2,3,,STD10
Misc Info : Z040506,8260B_LM,all.sub
Comment : Volatile Organics by GC/MS
Method : /var/chem/gcms/mz.i/Z040506.b/8260B_LM.m
Meth Date : 05-Apr-2006 15:00 chemist Quant Type: ISTD
Cal Date : 24-MAR-2006 13:51 Cal File: icvzc248.d
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50
Processing Host: qmidhp01

Concentration Formula: Amt * DF * Uf*Vt/(Vo*1000) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Unit Correction factor
Vt	25000.00000	Sample Volume Purged
Vo	25.00000	Sample Volume Used

Cpnd Variable Local Compound Variable

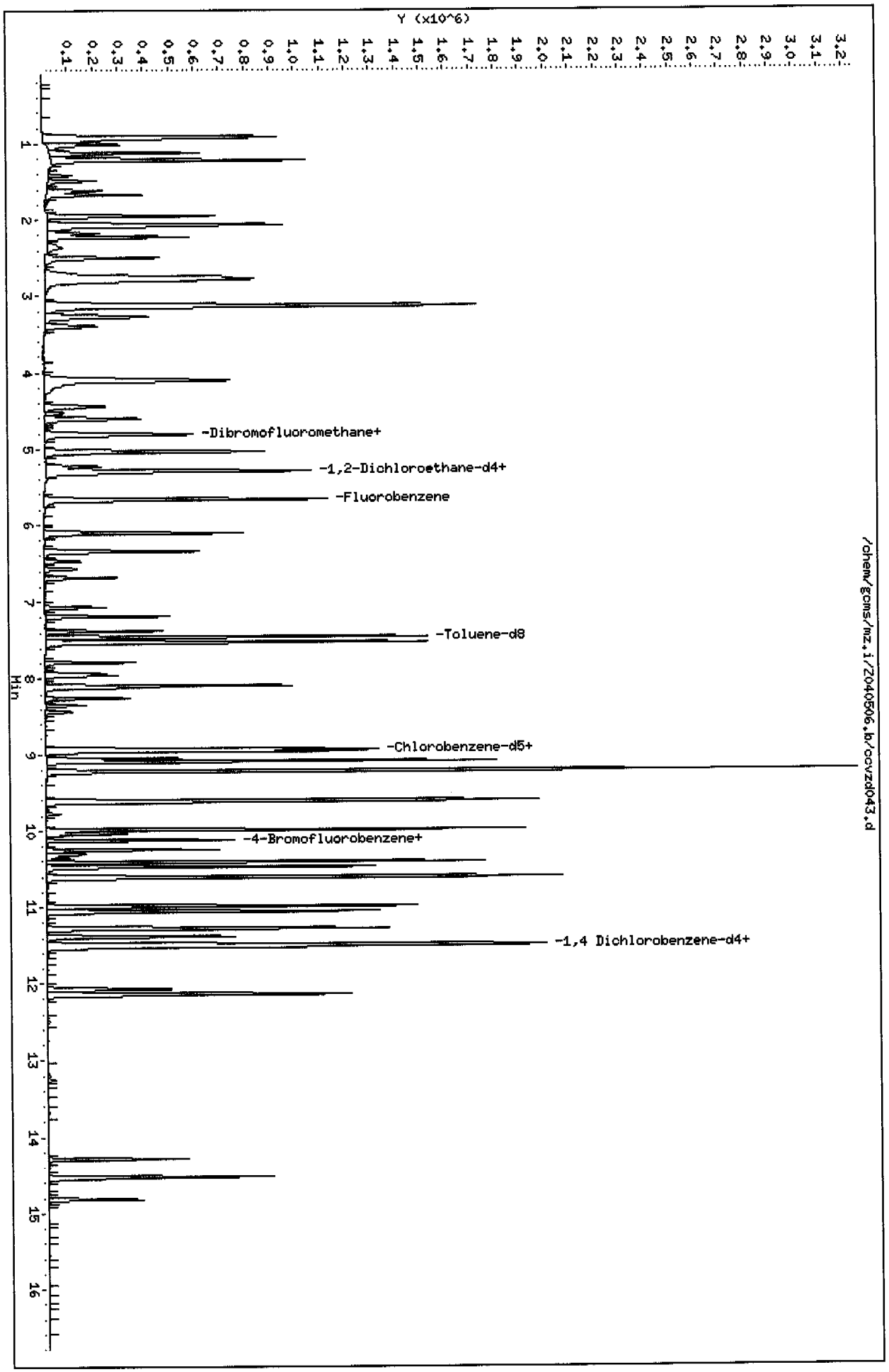
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
*	1 Fluorobenzene	96	5.667	5.667	(1.000)	1078707	10.0000	
*	2 Chlorobenzene-d5	119	8.933	8.933	(1.000)	188899	10.0000	
*	3 1,4 Dichlorobenzene-d4	152	11.488	11.488	(1.000)	220143	10.0000	
$	4 Dibromofluoromethane	113	4.821	4.821	(0.851)	182777	10.0000	10.574
$	5 1,2-Dichloroethane-d4	65	5.229	5.229	(0.923)	150591	10.0000	10.075
$	6 Toluene-d8	98	7.455	7.455	(0.835)	873970	10.0000	10.530
$	7 4-Bromofluorobenzene	95	10.126	10.126	(0.881)	212756	10.0000	9.5829
M	8 1,2-Dichloroethene (total)	96				493056	20.0000	17.312
M	9 Xylene (total)	106				1263127	30.0000	28.110
	10 Dichlorodifluoromethane	85	1.013	1.013	(0.179)	234264	10.0000	8.8969
	11 Chloromethane (spcc)	50	1.122	1.122	(0.198)	641981	10.0000	10.058
	12 Vinyl Chloride (ccc)	62	1.195	1.195	(0.211)	393986	10.0000	9.2733
	13 *1,3-Butadiene	39	1.220	1.220	(0.215)	342677	10.0000	8.9441
	15 Bromomethane	94	1.414	1.414	(0.250)	75303	10.0000	7.3781

Data File: /chem/gcms/mz.i/Z040506.b/ccvzd043.d
Report Date: 05-Apr-2006 15:00

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
16 Chloroethane	64	1.481	1.481	(0.261)	176199	10.0000	8.7584
17 *Vinyl Bromide	106	1.615	1.615	(0.285)	168498	10.0000	9.3752
18 Trichlorofluoromethane	101	1.670	1.670	(0.295)	290896	10.0000	8.8228
19 *2-Chloropropane	43	1.950	1.950	(0.344)	600820	10.0000	8.4195
20 1,1-Dichloroethene (ccc)	96	2.065	2.065	(0.364)	225560	10.0000	9.6210
21 *Freon 113	151	2.083	2.083	(0.368)	189832	10.0000	10.401
22 Acetone	43	2.126	2.126	(0.375)	95956	40.0000	35.920
23 *Iodomethane	142	2.181	2.181	(0.385)	254822	10.0000	9.5928
24 Carbon Disulfide	76	2.229	2.229	(0.393)	731814	10.0000	8.8429
26 *Acetonitrile	40	2.369	2.369	(0.418)	102601	200.000	213.50
27 Methylene Chloride	84	2.503	2.503	(0.442)	159132	10.0000	8.8207
29 *Acrylonitrile	53	2.759	2.759	(0.487)	735900	200.000	182.69
30 trans-1,2-Dichloroethene	96	2.789	2.789	(0.492)	261547	10.0000	8.8374
31 *MTBE	73	2.820	2.820	(0.498)	209785	10.0000	8.0812
32 *Hexane	57	3.136	3.136	(0.553)	1405996	20.0000	18.542
33 1,1-Dichloroethane (spcc)	63	3.276	3.276	(0.578)	578350	10.0000	8.4543
34 *Vinyl Acetate	86	3.397	3.397	(0.600)	23152	20.0000	16.098
35 2,2-Dichloropropane	77	4.091	4.091	(0.722)	285201	10.0000	8.2055
36 cis 1,2-Dichloroethene	96	4.109	4.109	(0.725)	231508	10.0000	8.4745
37 2-Butanone	43	4.170	4.170	(0.736)	145451	40.0000	35.586
38 Bromochloromethane	128	4.450	4.450	(0.785)	69771	10.0000	9.2884
39 *THF	42	4.529	4.529	(0.799)	91576	40.0000	35.780
40 Chloroform (ccc)	83	4.608	4.608	(0.813)	328720	10.0000	8.4340
41 1,1,1-Trichloroethane	97	4.809	4.809	(0.849)	300590	10.0000	8.7135
42 Carbon Tetrachloride	117	5.028	5.028	(0.887)	193863	10.0000	7.0698
43 1,1-Dichloropropene	75	5.046	5.046	(0.890)	322213	10.0000	8.7166
44 Benzene	78	5.295	5.295	(0.934)	873610	10.0000	8.2124
45 1,2-Dichloroethane	62	5.326	5.326	(0.940)	194085	10.0000	8.6160
46 Trichloroethene	130	6.105	6.105	(1.077)	271577	10.0000	9.0757
47 1,2-Dichloropropane (ccc)	63	6.342	6.342	(1.119)	253935	10.0000	8.7369
48 *Methyl Methacrylate	41	6.573	6.573	(1.160)	78169	10.0000	8.1982
49 Dibromomethane	93	6.470	6.470	(1.142)	51798	10.0000	8.5582
50 Bromodichloromethane	83	6.683	6.683	(1.179)	154039	10.0000	8.3666
51 *2-Chloroethylvinylether	63	7.066	7.066	(1.247)	87325	20.0000	13.238
52 cis-1,3-Dichloropropene	75	7.181	7.181	(1.267)	198851	10.0000	8.4258
53 4-Methyl-2-pentanone	43	7.376	7.376	(1.302)	332214	40.0000	35.266
54 Toluene (ccc)	91	7.522	7.522	(0.842)	947315	10.0000	8.8119
55 trans-1,3-Dichloropropene	75	7.784	7.784	(0.871)	118583	10.0000	7.5267
56 *Ethyl Methacrylate	69	7.930	7.930	(0.888)	74063	10.0000	8.0645
57 1,1,2-Trichloroethane	97	7.960	7.960	(0.891)	75367	10.0000	8.6377
58 Tetrachloroethene	164	8.094	8.094	(0.906)	202510	10.0000	9.0819
59 1,3-Dichloropropane	76	8.118	8.118	(0.909)	130149	10.0000	8.5098
60 2-Hexanone	43	8.252	8.252	(0.924)	220129	40.0000	37.657
61 Chlorodibromomethane	129	8.349	8.349	(0.935)	68913	10.0000	7.6988
62 1,2-Dibromoethane	107	8.435	8.435	(0.944)	66693	10.0000	8.5354
63 Chlorobenzene (spcc)	112	8.958	8.958	(1.003)	539413	10.0000	8.9899
64 1,1,1,2-Tetrachloroethane	131	9.055	9.055	(1.014)	111890	10.0000	7.4877

Data File: /chem/gcms/mz.i/Z040506.b/ccvzd043.d
Report Date: 05-Apr-2006 15:00

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
	==========	====	==	======	======	========	=======	=======
65	Ethylbenzene (ccc)	106	9.092	9.092	(1.018)	363668	10.0000	9.4063
66	m&p-Xylene	106	9.219	9.219	(1.032)	879467	20.0000	18.816
67	o-Xylene	106	9.609	9.609	(1.076)	383659	10.0000	9.2936
68	Styrene	104	9.621	9.621	(1.077)	513181	10.0000	8.8540
69	Bromoform (spcc)	173	9.779	9.779	(1.095)	26286	10.0000	9.1866
70	Isopropylbenzene	105	9.992	9.992	(1.118)	1090515	10.0000	9.1868
71	*cis-1,4-dichloro-2-butene	88	10.059	10.059	(1.126)	9512	10.0000	7.1706
72	Bromobenzene	156	10.254	10.254	(1.148)	155208	10.0000	8.7979
73	1,1,2,2-Tetrachloroethane(sp)	83	10.290	10.290	(1.152)	59223	10.0000	9.0989
74	1,2,3-Trichloropropane	110	10.314	10.314	(0.898)	17337	10.0000	9.1472
75	*trans-1,4-dichloro-2-butene	53	10.345	10.345	(0.900)	22511	10.0000	8.2827
76	n-Propylbenzene	91	10.406	10.406	(0.906)	1268134	10.0000	9.5170
77	2-Chlorotoluene	91	10.473	10.473	(0.912)	648007	10.0000	9.1699
78	1,3,5-Trimethylbenzene	105	10.612	10.612	(0.924)	869988	10.0000	9.7034
79	4-Chlorotoluene	91	10.594	10.594	(0.922)	714207	10.0000	9.5137
80	tert-Butylbenzene	119	10.990	10.990	(0.957)	777437	10.0000	9.6846
81	1,2,4-Trimethylbenzene	105	11.050	11.050	(0.962)	799975	10.0000	9.4967
82	sec-Butylbenzene	105	11.282	11.282	(0.982)	1141521	10.0000	9.6468
83	1,3-Dichlorobenzene	146	11.385	11.385	(0.991)	350418	10.0000	9.0933
84	p-Isopropyltoluene	119	11.501	11.501	(1.001)	1007036	10.0000	9.6990
85	1,4-Dichlorobenzene	146	11.519	11.519	(1.003)	327805	10.0000	9.1451
86	1,2-Dichlorobenzene	146	12.079	12.079	(1.051)	267856	10.0000	9.4216
87	n-Butylbenzene	91	12.145	12.145	(1.057)	896559	10.0000	9.6543
88	1,2-Dibromo-3-chloropropane	157	13.253	13.253	(1.154)	6382	10.0000	6.5463
89	1,2,4-Trichlorobenzene	180	14.293	14.293	(1.244)	152625	10.0000	8.8576
90	Hexachlorobutadiene	225	14.524	14.524	(1.264)	158528	10.0000	9.8103
91	Napthalene	128	14.542	14.542	(1.266)	154368	10.0000	8.5429
92	1,2,3-Trichlorobenzene	180	14.816	14.816	(1.290)	102412	10.0000	9.0225
M 93	*1,4-dichloro-2-butene(total)	53				32024	20.0000	15.453


Data File: /chem/gcms/mz.i/Z040506.b/ccvzd043.d
Date : 05-APR-2006 14:42
Client ID: STD10
Sample Info: CCVZD043,1,2,3,,STD10
Purge Volume: 25.0
Column phase: J+W 624
Instrument: mz.i
Operator: 063605
Column diameter: 0.18
Y (x10^6)
-Dibromofluoromethane+
-1,2-Dichloroethane-d4+
-Fluorobenzene
-Toluene-d8
-Chlorobenzene-d5+
-4-Bromofluorobenzene+
-1,4 Dichlorobenzene-d4+
/chem/gcms/mz.i/Z040506.b/ccvzd043.d
Min

STL Volatile GC/MS Continuing Calibration Review / Narrative Checklist
Method: 8260B - KNOX-MS-0015, Rev. 8

Analysis Date:	4/06/06	CCAL Batch/ Scan Name:	Z040606	Instrument:	MS	ICAL Batch/ Scan Name:	Z032406F	Scanned □

Review Items	N/A	Yes	No	If No, why is data reportable?	2nd √
1. Did BFB meet tune criteria?		✓			✓
2. Were all standards injected within 12 hr of BFB?		✓			✓
3. Was date/time of analysis verified between analysis header and logbook as correct?		✓			✓
4. Was the primary ion used for all compounds?		✓		□*Secondary ion used due to interferences for:*_____	✓
5. Do the RFs for SPCCs meet minimum RF?		✓			✓
6. Is the %D or drift ≤20% for all CCCs?		✓			✓
7. Is the %D or drift ≤ 50% for all other compounds? [Up to 6 TCLs may have %D or drift > 50%; any more and the calibration is INVALID].		✓		□ %D or drift > 50% for the following TCLs: _____	✓
8. Are the internal standard responses within limits? 8260B: 50-200% of the mid-level ICAL standard		✓			✓
9. Are the internal standard retention times within limits? 8260B: 30 seconds of the mid-level ICAL standard		✓			✓
10. If manual integrations were performed, are they clearly identified, initialed, dated and reason given?	✓			Reasons: 1)Corrected split peak; 2)Unresolved peak; 3)tailing; 4)RT shift; 5)wrong peak selected; 6)other	NA
11. Have alternate hits/manual integrations been verified as correct and are correct RFs listed in CCAL summary?	✓				NA
12. Was the correct ICAL used for quantitation? (Verify date & time of ICAL is documented correctly on CCAL)		✓			✓
13. Is the first IS documented correctly on the log?		✓			✓
14. Elution order checked on isomeric pairs/coeluters?		✓			✓
• hexane and vinyl acetate		✓			✓
• cis- and trans- isomers		✓			✓
• trichlorofluoromethane and Freon 113		✓			✓
• ethyl benzene / m/p-xylene / o-xylene		✓			✓
• n-propylbenzene / 2-chlorotoluene / 4-chlorotoluene		✓			✓
• 1,3,5-trimethylbenzene / 1,2,4-trimethylbenzene / sec-butylbenzene		✓			✓
• 1,3- , 1,4- , and 1,2-dichlorobenzene		✓			✓
• 1,2,4 and 1,2,3 -trichlorobenzene		✓			✓
• chlorobenzene-d5 and 1,1,1,2-tetrachloroethane		✓			✓
15. If criteria were not met, was a NCM generated, approved by supervisor, and copy included in folder?	✓				NA
16. Does the CCAL folder contain **complete** data in the following order? Data review checklist, tune pass/fail page, m/z list, tune chromatogram, Target CCAL summary, Quan report, chromatogram and manual integrations.		✓			✓

Analyst: MT	Date: 4/6/06	2nd Level Reviewer :	Date: 4/6/06
Comments:		**Comments:**	

STL Knoxville GC/MS Volatiles Run Log - Instrument MZ

Target Batch	Z040606	XXXXXXXXX	XXXXXXXXX	Loop #	—	3
QuantIMS Batch	60962323	60962330	—	Standard ID	—	VOA6499
Method	8260B	XXXXXXXXX	XXXXXXXXX	Matrix	—	Water
SOP#	KnoxMS0015	XXXXXXXXX	XXXXXXXXX	IS Amt/ID	—	4.7 mL
Intitial Cal Batch	Z032406I	XXXXXXXXX	XXXXXXXXX	SS Amt/ID	—	↓
CCAL IS Areas	939680	1609233	201373	Heated?		Y (N)

☑ Date/Time Verified Preventive Maintenance Performed ☑NA or ☐ _____

Lot	Lab File ID	Time	ALS #	Loop #	Solatek Dilution Factor	MS Dilution Factor	Volume/ Weight Purged	pH	Init	Standards ID/Spike ID/ and/or Comments
Tune	BFBZD06	1339	—	—	—	1	—	NA	MT	1 mL VOA-6493
CCV	CCVZD063	1358	1	3	1	1	25mL			5 mL VOA-6496 → 50mL
LCS	H2P781AC	1426	2							
↓	H2P651AA	1447	3							↓ + 1mL → 50mL
BLK	H2J4D1AA	1513	4							1mL → 50mL
↓	H2P781AA	1536	5					↓		
C220101	H1PCR1AA	1559	6					<2		
↓	H1PCT1AA	1623	7					↓		
D030205	H2HPW1AA	1646	8					7		
↓	H2HP31AA	1710	9					<2		5mL
↓	H2HQD1AA	1733	10		↓	↓		7		
D050118	H2L4J1AA	1757	11		~~1~~ 50	~~50~~ 200		<2		MT 4/6/06 250mL → 50mL 02 1/100
D040336	H2K8C1AA	1930	~~125~~		~~10~~	~~10~~		NA		MT 4/6/06
↓ MT 4/6/06	H2KLAD1AA	1920	12		1	1				RR 6.00
	H2K9L1AA	1843	13							↓
↓	H2K8X1AA	1907	14					↓		
D030104	H2GK22AA	1954	15			3333		7		15mL → 50mL
C310604	H2DDL1AD	2017	16			1		NA		1mL → 50mL
D040336	H2LAD2AA	2041	17							
	H2K9L2AA	2104	18							(1 Surr)
↓	H2K8X2AA	2127	19			↓		↓		
D050118	H2L4J2AA	2151	20			1000		<2		50mL → 50mL
MS	H2DDL1A7	2214	21			1		NA		5mL VOA 6496 + 1mL → 50mL
MSD	H2DDL1A8	2237	22					↓		↓
MS	H2HPW1AC	~~2348~~ 2301	23					7		5mL VOA 6496 → 50mL MT 4/7/06
MSD	PW1AD	2324	24					7		
MS	P31AC	2348	25					<2		
MSD	P31AD	0011	26					↓		
MS	QD1AC	0034	27					7		
MSD	QD1AD	0058	28	↓	↓	↓	↓	7	↓	
		MT 4/7/06								

Analyst/Date: MT 4/7/06 /_____

Data File: /var/chem/gcms/mz.i/Z040606.b/bfbzd06.d

Date : 06-APR-2006 13:39

Client ID:

Instrument: mz.i

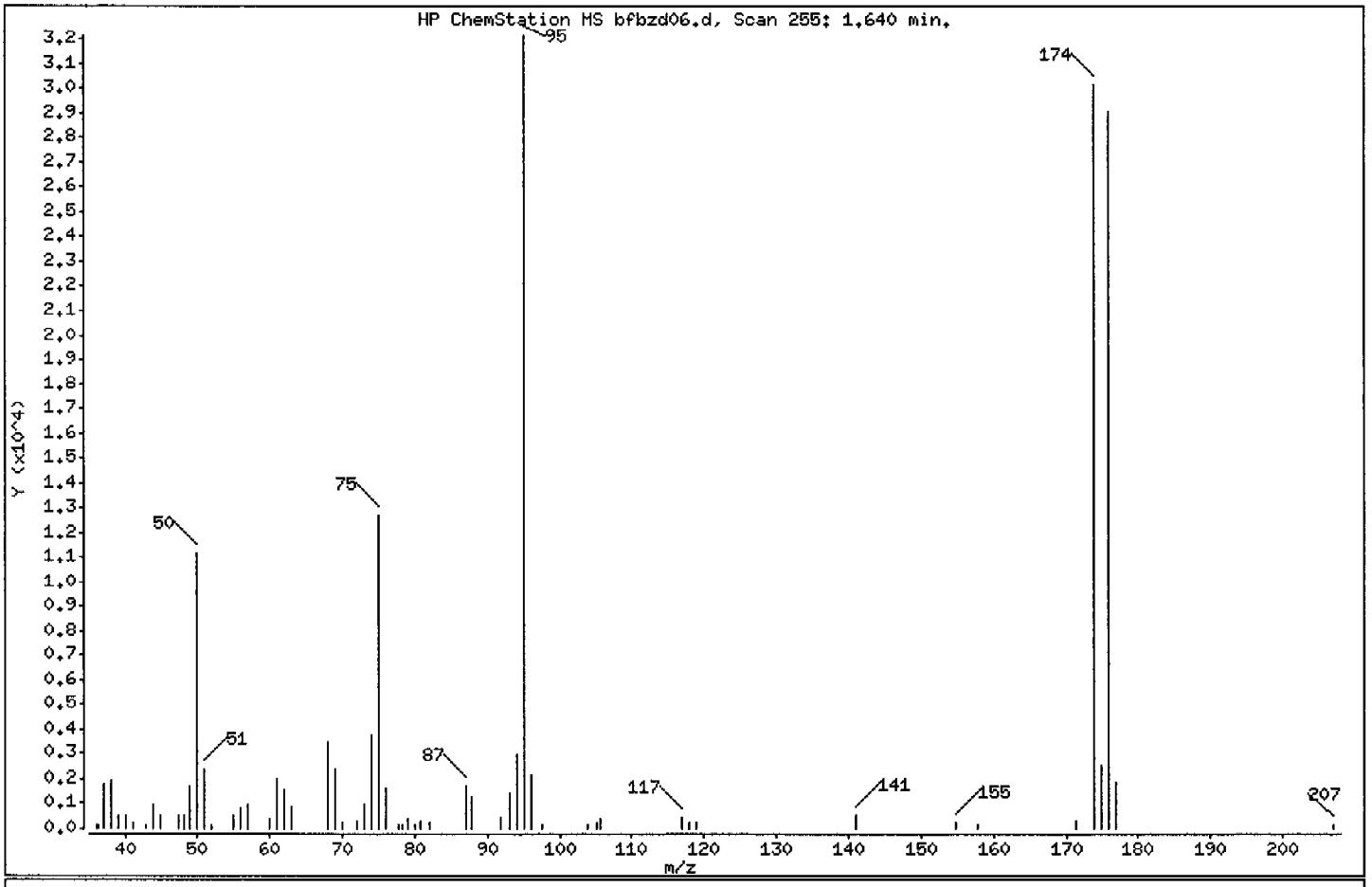
Sample Info: BFBZD06,1,3,,BFB

Operator: 063605

Column phase: J & W 624

Column diameter: 0.18

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	34.72
75	30.00 - 60.00% of mass 95	39.49
96	5.00 - 9.00% of mass 95	6.77
173	Less than 2.00% of mass 174	0.00 (0.00)
174	50.00 - 120.00% of mass 95	93.91
175	5.00 - 9.00% of mass 174	7.87 (8.39)
176	95.00 - 101.00% of mass 174	90.40 (96.27)
177	5.00 - 9.00% of mass 176	5.75 (6.36)

Data File: /var/chem/gcms/mz.i/Z040606.b/bfbzd06.d

Date : 06-APR-2006 13:39

Client ID: Instrument: mz.i

Sample Info: BFBZD06,1,3,,BFB

Operator: 063605

Column phase: J & W 624 Column diameter: 0.18

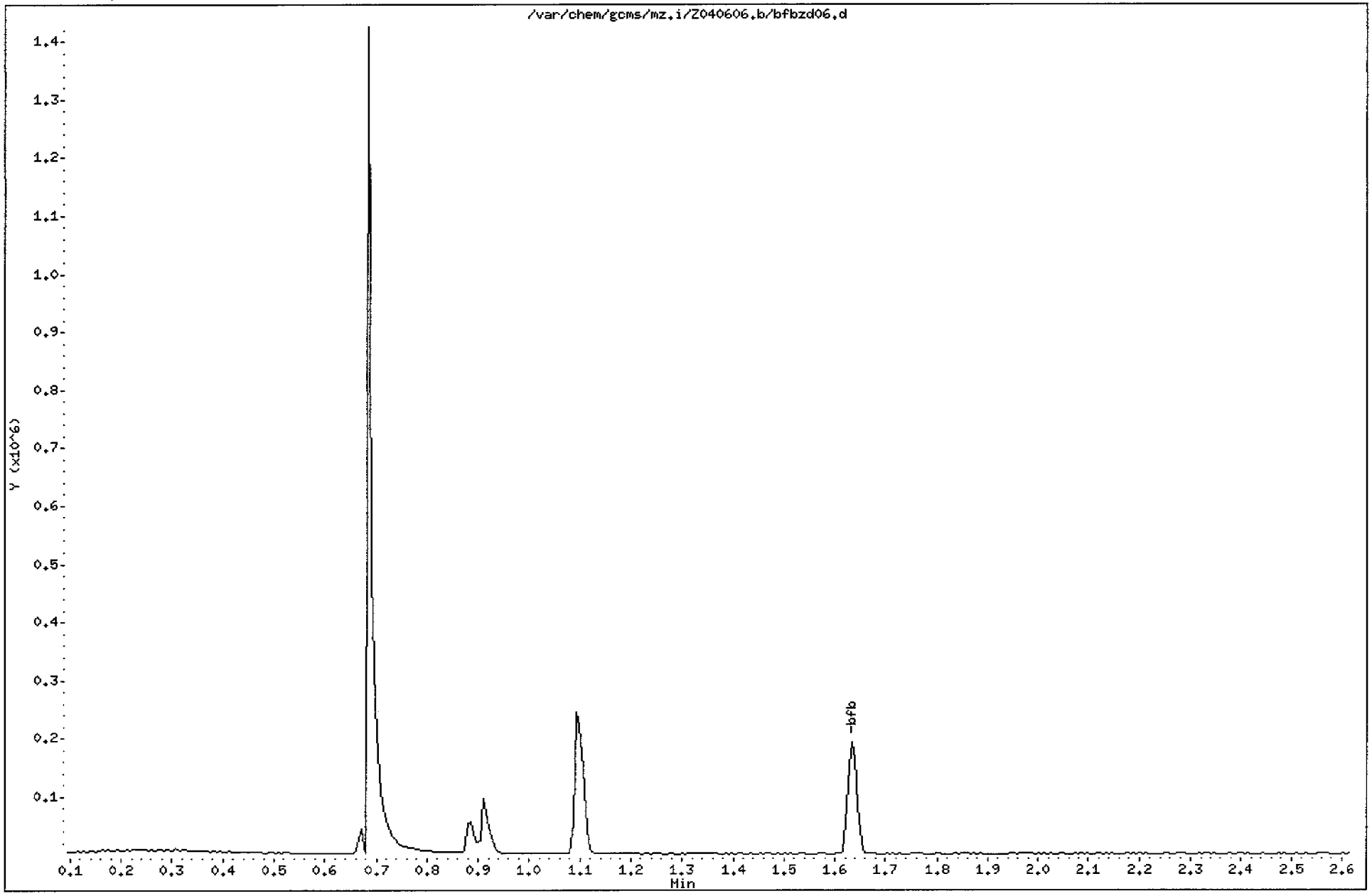
Data File: bfbzd06.d
Spectrum: HP ChemStation MS bfbzd06.d, Scan 255: 1.640 min.
Location of Maximum: 95.00
Number of points: 60

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.10	169	54.90	502	78.30	154	117.00	408
36.30	164	55.90	781	78.90	383	117.80	235
37.00	1803	57.00	954	80.10	162	118.90	204
38.10	1901	59.90	367	80.80	295	141.00	547
39.10	505	61.00	1961	82.00	195	154.70	193
40.00	516	62.00	1518	87.00	1712	157.80	159
41.10	234	62.90	865	87.90	1245	171.40	295
42.90	161	67.90	3484	91.80	428	173.90	30208
44.00	946	69.10	2400	93.10	1395	174.90	2533
45.00	528	69.90	248	94.00	2948	175.90	29080
47.30	525	71.90	294	95.00	32168	176.90	1850
48.20	542	73.10	926	96.00	2179	207.00	156
49.00	1677	74.10	3792	97.60	174		
50.00	11170	75.00	12703	103.80	162		
51.00	2375	76.10	1611	105.00	221		
51.90	154	77.80	156	105.70	334		

Data File: /var/chem/gcms/mz.i/Z040606.b/bfbzd06.d
Date : 06-APR-2006 13:39
Client ID:
Sample Info: BFBZD06,1,3,,BFB

Instrument: mz.i
Operator: 063605
Column diameter: 0.18

Column phase: J & W 624



Data File: /chem/gcms/mz.i/Z040606.b/ccvzd063.d
Report Date: 06-Apr-2006 14:16

STL Knoxville

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: mz.i
Lab File ID: ccvzd063.d
Analysis Type: WATER
Lab Sample ID: CCVZD063
Method: /chem/gcms/mz.i/Z040606.b/8260B_LM.m

Injection Date: 06-APR-2006 13:58
Init. Cal. Date(s): 24-MAR-2006 24-MAR-2006
Init. Cal. Times: 13:51 16:34
Quant Type: ISTD

			CCAL	MIN		MAX	
COMPOUND	RRF / AMOUNT	RF10	RRF10	RRF	%D / %DRIFT	%D / %DRIFT	CURVE TYPE
$ 4 Dibromofluoromethane	0.16024	0.17273	0.17273	0.000	-7.79487	50.00000	Averaged
$ 5 1,2-Dichloroethane-d4	0.13856	0.14644	0.14644	0.000	-5.68445	50.00000	Averaged
$ 6 Toluene-d8	4.39383	4.52896	4.52896	0.000	-3.07554	50.00000	Averaged
$ 7 4-Bromofluorobenzene	1.00850	0.95181	0.95181	0.000	5.62156	50.00000	Averaged
M 8 1,2-Dichloroethene (total)	0.26636	0.24129	0.24129	0.000	9.40904	50.00000	Averaged
M 9 Xylene (total)	2.45452	2.31736	2.31736	0.000	5.58800	50.00000	Averaged
10 Dichlorodifluoromethane	0.24410	0.23920	0.23920	0.000	2.00869	50.00000	Averaged
11 Chloromethane (spcc)	11.51979	10.00000	0.67693	0.100	-15.19792	50.00000	Wt Linear
12 Vinyl Chloride (ccc)	0.39386	0.41878	0.41878	0.000	-6.32698	19.00000	Averaged
13 *1,3-Butadiene	0.35518	0.38619	0.38619	0.000	-8.73172	50.00000	Averaged
15 Bromomethane	8.91972	10.00000	0.08625	0.000	10.80278	50.00000	Wt Linear
16 Chloroethane	0.18650	0.20134	0.20134	0.000	-7.95883	50.00000	Averaged
17 *Vinyl Bromide	0.16661	0.16816	0.16816	0.000	-0.92816	50.00000	Averaged
18 Trichlorofluoromethane	0.30565	0.34054	0.34054	0.000	-11.41309	50.00000	Averaged
19 *2-Chloropropane	0.66154	0.66212	0.66212	0.000	-0.08875	50.00000	Averaged
20 1,1-Dichloroethene (ccc)	0.21734	0.23449	0.23449	0.000	-7.88892	19.00000	Averaged
21 *Freon 113	0.16920	0.17485	0.17485	0.000	-3.33812	50.00000	Averaged
22 Acetone	35.84455	40.00000	0.02221	0.000	10.38863	50.00000	Quadratic
23 *Iodomethane	10.72657	10.00000	0.26576	0.000	-7.26566	50.00000	Wt Linear
24 Carbon Disulfide	0.76719	0.74096	0.74096	0.000	3.41817	50.00000	Averaged
25 *2-propanol	++++	0.00161	0.00161	0.000	++++	50.00000	Averaged <-NA
26 *Acetonitrile	0.00445	0.00460	0.00460	0.000	-3.32911	50.00000	Averaged
27 Methylene Chloride	0.16724	0.14422	0.14422	0.000	13.76754	50.00000	Averaged
28 *t-butanol	++++	0.00196	0.00196	0.000	++++	50.00000	Averaged <-NA
29 *Acrylonitrile	0.03734	0.03455	0.03455	0.000	7.48938	50.00000	Averaged
30 trans-1,2-Dichloroethene	0.27436	0.25516	0.25516	0.000	6.99734	50.00000	Averaged
31 *MTBE	0.24065	0.19781	0.19781	0.000	17.80177	50.00000	Averaged
32 *Hexane	0.70295	0.72706	0.72706	0.000	-3.42962	50.00000	Averaged
33 1,1-Dichloroethane (spcc)	0.63418	0.60205	0.60205	0.100	5.06540	50.00000	Averaged
34 *Vinyl Acetate	0.01333	0.01031	0.01031	0.000	22.68992	50.00000	Averaged
35 2,2-Dichloropropane	0.32221	0.24659	0.24659	0.000	23.46870	50.00000	Averaged
36 cis 1,2-Dichloroethene	0.25325	0.22742	0.22742	0.000	10.19779	50.00000	Averaged
37 2-Butanone	0.03789	0.03323	0.03323	0.000	12.29513	50.00000	Averaged
38 Bromochloromethane	0.06964	0.06508	0.06508	0.000	6.54765	50.00000	Averaged
39 *THF	0.02373	0.02053	0.02053	0.000	13.46786	50.00000	Averaged

4/6/06

Data File: /chem/gcms/mz.i/Z040606.b/ccvzd063.d
Report Date: 06-Apr-2006 14:16

STL Knoxville

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: mz.i
Lab File ID: ccvzd063.d
Analysis Type: WATER
Lab Sample ID: CCVZD063
Method: /chem/gcms/mz.i/Z040606.b/8260B_LM.m

Injection Date: 06-APR-2006 13:58
Init. Cal. Date(s): 24-MAR-2006 24-MAR-2006
Init. Cal. Times: 13:51 16:34
Quant Type: ISTD

COMPOUND	RRF / AMOUNT	RF10	CCAL RRF10	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
40 Chloroform (ccc)	0.36132	0.33220	0.33220	0.000	8.05911	19.00000	Averaged
41 1,1,1-Trichloroethane	0.31980	0.31397	0.31397	0.000	1.82389	50.00000	Averaged
42 Carbon Tetrachloride	8.29150	10.00000	0.21234	0.000	17.08498	50.00000	Wt Linear
43 1,1-Dichloropropene	0.34268	0.32549	0.32549	0.000	5.01542	50.00000	Averaged
44 Benzene	0.98616	0.87163	0.87163	0.000	11.61348	50.00000	Averaged
45 1,2-Dichloroethane	0.20883	0.19835	0.19835	0.000	5.01408	50.00000	Averaged
46 Trichloroethene	0.27740	0.26785	0.26785	0.000	3.44534	50.00000	Averaged
47 1,2-Dichloropropane (ccc)	0.26944	0.25599	0.25599	0.000	4.99175	19.00000	Averaged
48 *Methyl Methacrylate	0.08839	0.07706	0.07706	0.000	12.82331	50.00000	Averaged
49 Dibromomethane	0.05611	0.05139	0.05139	0.000	8.41120	50.00000	Averaged
50 Bromodichloromethane	8.74720	10.00000	0.14992	0.000	12.52804	50.00000	Linear
51 *2-Chloroethylvinylether	0.06115	0.03526	0.03526	0.000	42.34307	50.00000	Averaged
52 cis-1,3-Dichloropropene	0.21878	0.19294	0.19294	0.000	11.81287	50.00000	Averaged
53 4-Methyl-2-pentanone	0.08733	0.08188	0.08188	0.000	6.23921	50.00000	Averaged
54 Toluene (ccc)	5.69105	5.26935	5.26935	0.000	7.40998	19.00000	Averaged
55 trans-1,3-Dichloropropene	7.29114	10.00000	0.60633	0.000	27.08857	50.00000	Linear
56 *Ethyl Methacrylate	0.48617	0.37868	0.37868	0.000	22.11032	50.00000	Averaged
57 1,1,2-Trichloroethane	0.46191	0.40413	0.40413	0.000	12.50809	50.00000	Averaged
58 Tetrachloroethene	1.18042	1.09859	1.09859	0.000	6.93264	50.00000	Averaged
59 1,3-Dichloropropane	0.80964	0.70242	0.70242	0.000	13.24316	50.00000	Averaged
60 2-Hexanone	0.30945	0.28666	0.28666	0.000	7.36739	50.00000	Averaged
61 Chlorodibromomethane	8.71552	10.00000	0.41836	0.000	12.84480	50.00000	Wt Linear
62 1,2-Dibromoethane	0.41364	0.36007	0.36007	0.000	12.95071	50.00000	Averaged
63 Chlorobenzene (spcc)	3.17641	2.94288	2.94288	0.300	7.35215	50.00000	Averaged
64 1,1,1,2-Tetrachloroethane	8.39061	10.00000	0.66697	0.000	16.09394	50.00000	Wt Linear
65 Ethylbenzene (ccc)	2.04670	1.95901	1.95901	0.000	4.28456	19.00000	Averaged
66 m&p-Xylene	2.47429	2.43375	2.43375	0.000	1.63829	50.00000	Averaged
67 o-Xylene	2.18540	2.08459	2.08459	0.000	4.61287	50.00000	Averaged
68 Styrene	3.06833	2.82902	2.82902	0.000	7.79960	50.00000	Averaged
69 Bromoform (spcc)	9.88301	10.00000	0.15124	0.100	1.16990	50.00000	Quadratic
70 Isopropylbenzene	6.28402	6.10807	6.10807	0.000	2.79995	50.00000	Averaged
71 *cis-1,4-dichloro-2-butene	6.98185	10.00000	0.04865	0.000	30.18149	50.00000	Quadratic
72 Bromobenzene	0.93391	0.87524	0.87524	0.000	6.28228	50.00000	Averaged
73 1,1,2,2-Tetrachloroethane(s	0.34456	0.32199	0.32199	0.300	6.55230	50.00000	Averaged
74 1,2,3-Trichloropropane	0.08610	0.07599	0.07599	0.000	11.74268	50.00000	Averaged

Data File: /chem/gcms/mz.i/Z040606.b/ccvzd063.d
Report Date: 06-Apr-2006 14:16

STL Knoxville

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: mz.i
Lab File ID: ccvzd063.d
Analysis Type: WATER
Lab Sample ID: CCVZD063
Method: /chem/gcms/mz.i/Z040606.b/8260B_LM.m

Injection Date: 06-APR-2006 13:58
Init. Cal. Date(s): 24-MAR-2006 24-MAR-2006
Init. Cal. Times: 13:51 16:34
Quant Type: ISTD

COMPOUND	RRF / AMOUNT	RF10	CCAL RRF10	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
75 *trans-1,4-dichloro-2-buten	8.78988	10.00000	0.10890	0.000	12.10120	50.00000	Wt Linear
76 n-Propylbenzene	6.05285	5.95965	5.95965	0.000	1.53981	50.00000	Averaged
77 2-Chlorotoluene	3.21004	2.97178	2.97178	0.000	7.42217	50.00000	Averaged
78 1,3,5-Trimethylbenzene	4.07272	4.00222	4.00222	0.000	1.73090	50.00000	Averaged
79 4-Chlorotoluene	3.41012	3.22655	3.22655	0.000	5.38326	50.00000	Averaged
80 tert-Butylbenzene	3.64650	3.65597	3.65597	0.000	-0.25992	50.00000	Averaged
81 1,2,4-Trimethylbenzene	3.82646	3.67804	3.67804	0.000	3.87859	50.00000	Averaged
82 sec-Butylbenzene	5.37516	5.34826	5.34826	0.000	0.50043	50.00000	Averaged
83 1,3-Dichlorobenzene	1.75048	1.64433	1.64433	0.000	6.06362	50.00000	Averaged
84 p-Isopropyltoluene	4.71643	4.73257	4.73257	0.000	-0.34226	50.00000	Averaged
85 1,4-Dichlorobenzene	1.62825	1.53746	1.53746	0.000	5.57584	50.00000	Averaged
86 1,2-Dichlorobenzene	1.29143	1.17273	1.17273	0.000	9.19178	50.00000	Averaged
87 n-Butylbenzene	4.21842	4.13571	4.13571	0.000	1.96072	50.00000	Averaged
88 1,2-Dibromo-3-chloropropane	6.70091	10.00000	0.02977	0.000	32.99090	50.00000	Wt Linear
89 1,2,4-Trichlorobenzene	0.78272	0.69815	0.69815	0.000	10.80434	50.00000	Averaged
90 Hexachlorobutadiene	0.73404	0.80813	0.80813	0.000	-10.09397	50.00000	Averaged
91 Napthalene	0.82082	0.66254	0.66254	0.000	19.28310	50.00000	Averaged
92 1,2,3-Trichlorobenzene	0.51561	0.42463	0.42463	0.000	17.64576	50.00000	Averaged
M 93 *1,4-dichloro-2-butene(tota	0.10257	0.08912	0.08912	0.000	13.11551	50.00000	Averaged

Data File: /chem/gcms/mz.i/Z040606.b/ccvzd063.d
Report Date: 06-Apr-2006 14:16

STL Knoxville

Volatile Organics by GC/MS

Data file : /chem/gcms/mz.i/Z040606.b/ccvzd063.d
Lab Smp Id: CCVZD063 Client Smp ID: STD10
Inj Date : 06-APR-2006 13:58
Operator : 063605 Inst ID: mz.i
Smp Info : CCVZD063,1,2,3,,STD10
Misc Info : Z040606,8260B_LM,all.sub
Comment : Volatile Organics by GC/MS
Method : /chem/gcms/mz.i/Z040606.b/8260B_LM.m
Meth Date : 06-Apr-2006 14:16 chemist Quant Type: ISTD
Cal Date : 24-MAR-2006 13:51 Cal File: icvzc248.d
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50
Processing Host: qmidhp01

Concentration Formula: Amt * DF * Uf*Vt/(Vo*1000) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Unit Correction factor
Vt	25000.00000	Sample Volume Purged
Vo	25.00000	Sample Volume Used

Cpnd Variable Local Compound Variable

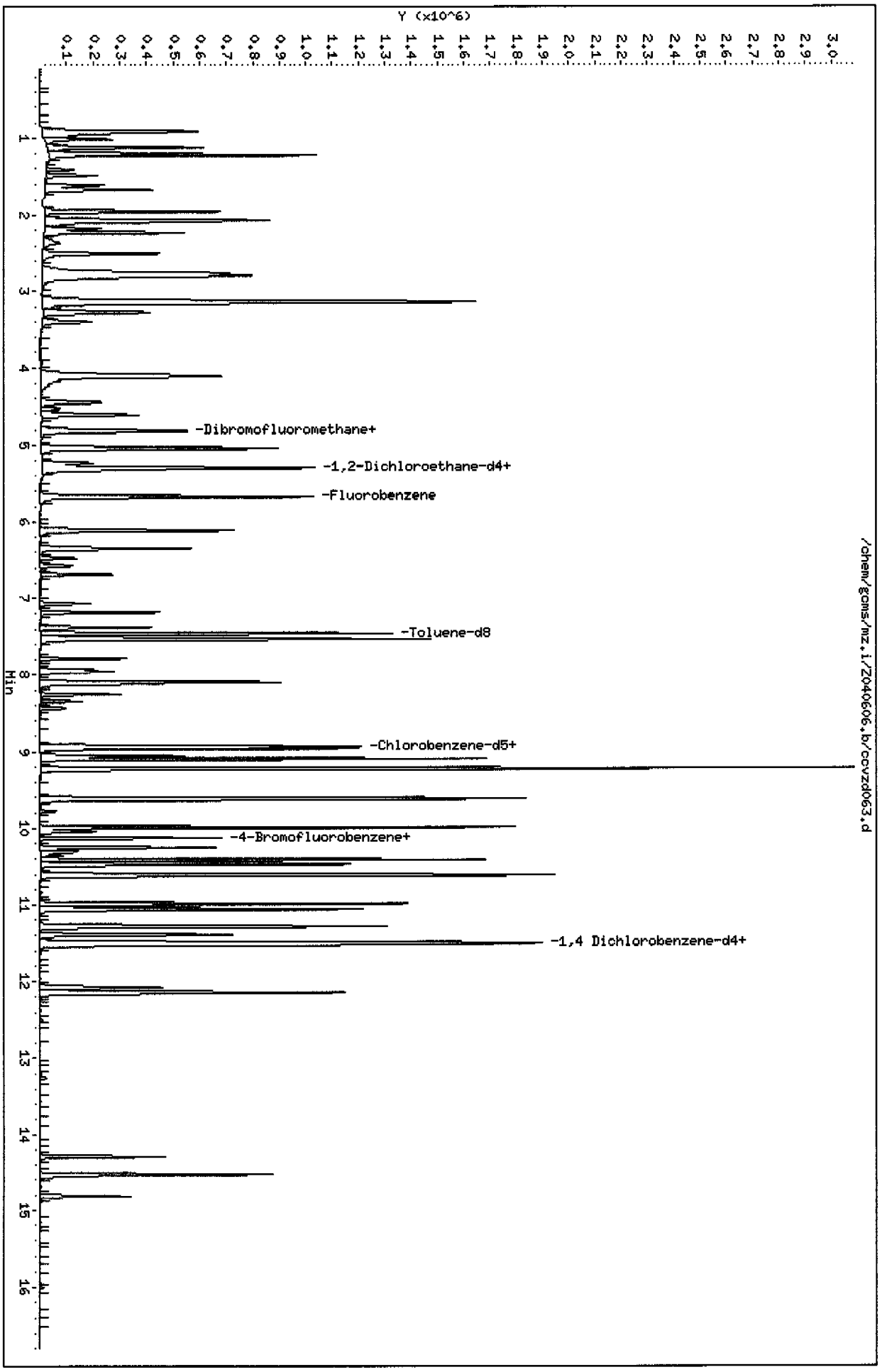
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	AMOUNTS ON-COL (ug/L)
*	1 Fluorobenzene	96	5.667	5.667	(1.000)	938680	10.0000	
*	2 Chlorobenzene-d5	119	8.934	8.934	(1.000)	169233	10.0000	
*	3 1,4 Dichlorobenzene-d4	152	11.489	11.489	(1.000)	201373	10.0000	
$	4 Dibromofluoromethane	113	4.827	4.827	(0.852)	162135	10.0000	10.779
$	5 1,2-Dichloroethane-d4	65	5.229	5.229	(0.923)	137460	10.0000	10.568
$	6 Toluene-d8	98	7.461	7.461	(0.835)	766452	10.0000	10.308
$	7 4-Bromofluorobenzene	95	10.120	10.120	(0.881)	191669	10.0000	9.4378
M	8 1,2-Dichloroethene (total)	96				452996	20.0000	18.280
M	9 Xylene (total)	106				1176528	30.0000	29.211
	10 Dichlorodifluoromethane	85	1.013	1.013	(0.179)	224527	10.0000	9.7991
	11 Chloromethane (spcc)	50	1.123	1.123	(0.198)	635420	10.0000	11.520
	12 Vinyl Chloride (ccc)	62	1.195	1.195	(0.211)	393102	10.0000	10.633
	13 *1,3-Butadiene	39	1.220	1.220	(0.215)	362509	10.0000	10.873
	15 Bromomethane	94	1.408	1.408	(0.249)	80965	10.0000	8.9197

Data File: /chem/gcms/mz.i/Z040606.b/ccvzd063.d
Report Date: 06-Apr-2006 14:16

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
16 Chloroethane	64	1.481	1.481	(0.261)	188997	10.0000	10.796
17 *Vinyl Bromide	106	1.615	1.615	(0.285)	157849	10.0000	10.093
18 Trichlorofluoromethane	101	1.670	1.670	(0.295)	319653	10.0000	11.141
19 *2-Chloropropane	43	1.950	1.950	(0.344)	621523	10.0000	10.009
20 1,1-Dichloroethene (ccc)	96	2.065	2.065	(0.364)	220106	10.0000	10.789
21 *Freon 113	151	2.084	2.084	(0.368)	164127	10.0000	10.334
22 Acetone	43	2.126	2.126	(0.375)	83378	40.0000	35.844
23 *Iodomethane	142	2.181	2.181	(0.385)	249461	10.0000	10.726
24 Carbon Disulfide	76	2.236	2.236	(0.395)	695526	10.0000	9.6582
26 *Acetonitrile	40	2.364	2.364	(0.417)	86419	200.000	206.66
27 Methylene Chloride	84	2.510	2.510	(0.443)	135375	10.0000	8.6232
29 *Acrylonitrile	53	2.759	2.759	(0.487)	648539	200.000	185.02
30 trans-1,2-Dichloroethene	96	2.795	2.795	(0.493)	239517	10.0000	9.3003
31 *MTBE	73	2.820	2.820	(0.498)	185683	10.0000	8.2198
32 *Hexane	57	3.142	3.142	(0.554)	1364946	20.0000	20.686
33 1,1-Dichloroethane (spcc)	63	3.276	3.276	(0.578)	565136	10.0000	9.4935
34 *Vinyl Acetate	86	3.404	3.404	(0.601)	19350	20.0000	15.462
35 2,2-Dichloropropane	77	4.091	4.091	(0.722)	231471	10.0000	7.6531
36 cis 1,2-Dichloroethene	96	4.116	4.116	(0.726)	213478	10.0000	8.9802
37 2-Butanone	43	4.170	4.170	(0.736)	124778	40.0000	35.082
38 Bromochloromethane	128	4.450	4.450	(0.785)	61086	10.0000	9.3452
39 *THF	42	4.535	4.535	(0.800)	77088	40.0000	34.613
40 Chloroform (ccc)	83	4.614	4.614	(0.814)	311827	10.0000	9.1941
41 1,1,1-Trichloroethane	97	4.815	4.815	(0.850)	294714	10.0000	9.8176
42 Carbon Tetrachloride	117	5.034	5.034	(0.888)	199321	10.0000	8.2915
43 1,1-Dichloropropene	75	5.046	5.046	(0.890)	305535	10.0000	9.4984
44 Benzene	78	5.296	5.296	(0.934)	818181	10.0000	8.8386
45 1,2-Dichloroethane	62	5.326	5.326	(0.940)	186191	10.0000	9.4986
46 Trichloroethene	130	6.111	6.111	(1.078)	251421	10.0000	9.6555
47 1,2-Dichloropropane (ccc)	63	6.342	6.342	(1.119)	240292	10.0000	9.5008
48 *Methyl Methacrylate	41	6.573	6.573	(1.160)	72333	10.0000	8.7177
49 Dibromomethane	93	6.476	6.476	(1.143)	48238	10.0000	9.1589
50 Bromodichloromethane	83	6.689	6.689	(1.180)	140727	10.0000	8.7472
51 *2-Chloroethylvinylether	63	7.066	7.066	(1.247)	66192	20.0000	11.531
52 cis-1,3-Dichloropropene	75	7.182	7.182	(1.267)	181106	10.0000	8.8187
53 4-Methyl-2-pentanone	43	7.376	7.376	(1.302)	307433	40.0000	37.504
54 Toluene (ccc)	91	7.528	7.528	(0.843)	891750	10.0000	9.2590
55 trans-1,3-Dichloropropene	75	7.784	7.784	(0.871)	102611	10.0000	7.2911
56 *Ethyl Methacrylate	69	7.936	7.936	(0.888)	64085	10.0000	7.7890
57 1,1,2-Trichloroethane	97	7.960	7.960	(0.891)	68392	10.0000	8.7492
58 Tetrachloroethene	164	8.094	8.094	(0.906)	185918	10.0000	9.3067
59 1,3-Dichloropropane	76	8.125	8.125	(0.909)	118873	10.0000	8.6757
60 2-Hexanone	43	8.252	8.252	(0.924)	194047	40.0000	37.053
61 Chlorodibromomethane	129	8.350	8.350	(0.935)	70799	10.0000	8.7155
62 1,2-Dibromoethane	107	8.441	8.441	(0.945)	60936	10.0000	8.7049
63 Chlorobenzene (spcc)	112	8.958	8.958	(1.003)	498034	10.0000	9.2648
64 1,1,1,2-Tetrachloroethane	131	9.055	9.055	(1.014)	112873	10.0000	8.3906

Data File: /chem/gcms/mz.i/Z040606.b/ccvzd063.d
Report Date: 06-Apr-2006 14:16

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/L)	ON-COL (ug/L)
65	Ethylbenzene (ccc)	106	9.098	9.098	(1.018)	331530	10.0000	9.5715
66	m&p-Xylene	106	9.220	9.220	(1.032)	823745	20.0000	19.672
67	o-Xylene	106	9.609	9.609	(1.076)	352783	10.0000	9.5387
68	Styrene	104	9.627	9.627	(1.078)	478764	10.0000	9.2200
69	Bromoform (spcc)	173	9.779	9.779	(1.095)	25595	10.0000	9.8830
70	Isopropylbenzene	105	9.992	9.992	(1.118)	1033691	10.0000	9.7200
71	*cis-1,4-dichloro-2-butene	88	10.059	10.059	(1.126)	8233	10.0000	6.9818
72	Bromobenzene	156	10.254	10.254	(1.148)	148119	10.0000	9.3718
73	1,1,2,2-Tetrachloroethane(sp)	83	10.290	10.290	(1.152)	54490	10.0000	9.3448
74	1,2,3-Trichloropropane	110	10.315	10.315	(0.898)	15301	10.0000	8.8257
75	*trans-1,4-dichloro-2-butene	53	10.351	10.351	(0.901)	21930	10.0000	8.7899
76	n-Propylbenzene	91	10.412	10.412	(0.906)	1200116	10.0000	9.8460
77	2-Chlorotoluene	91	10.473	10.473	(0.912)	598439	10.0000	9.2578
78	1,3,5-Trimethylbenzene	105	10.613	10.613	(0.924)	805942	10.0000	9.8269
79	4-Chlorotoluene	91	10.601	10.601	(0.923)	649741	10.0000	9.4617
80	tert-Butylbenzene	119	10.996	10.996	(0.957)	736217	10.0000	10.026
81	1,2,4-Trimethylbenzene	105	11.057	11.057	(0.962)	740661	10.0000	9.6121
82	sec-Butylbenzene	105	11.282	11.282	(0.982)	1077000	10.0000	9.9500
83	1,3-Dichlorobenzene	146	11.391	11.391	(0.992)	331125	10.0000	9.3936
84	p-Isopropyltoluene	119	11.507	11.507	(1.002)	953015	10.0000	10.034
85	1,4-Dichlorobenzene	146	11.519	11.519	(1.003)	309604	10.0000	9.4424
86	1,2-Dichlorobenzene	146	12.079	12.079	(1.051)	236156	10.0000	9.0808
87	n-Butylbenzene	91	12.146	12.146	(1.057)	832824	10.0000	9.8039
88	1,2-Dibromo-3-chloropropane	157	13.253	13.253	(1.154)	5994	10.0000	6.7009
89	1,2,4-Trichlorobenzene	180	14.293	14.293	(1.244)	140588	10.0000	8.9196
90	Hexachlorobutadiene	225	14.530	14.530	(1.265)	162736	10.0000	11.009
91	Napthalene	128	14.549	14.549	(1.266)	133418	10.0000	8.0717
92	1,2,3-Trichlorobenzene	180	14.816	14.816	(1.290)	85508	10.0000	8.2354
M 93	*1,4-dichloro-2-butene(total)	53				30163	20.0000	15.772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Date : 06-APR-2006 13:58
Client ID: STD10
Sample Info: CCVZD063,1,2,3,,STD10
Purge Volume: 25.0
Column phase: J+W 624
Instrument: mz.i
Operator: 063605
Column diameter: 0.18
Y (x10^6)
Min
-Dibromofluoromethane+
-1,2-Dichloroethane-d4+
-Fluorobenzene
-Toluene-d8
-Chlorobenzene-d5+
-4-Bromofluorobenzene+
-1,4 Dichlorobenzene-d4+
/chem/gcms/mz.i/Z040606.b/ccvzd063.d

Raw QC Data

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: H6D030205 **Work Order #...:** H2KWV1AA **Matrix.....:** SOLID
MB Lot-Sample #: H6D040000-386

Prep Date.....: 04/04/06
Analysis Date..: 04/04/06 **Prep Batch #...:** 6094386
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Acetone	**340 J**	**1000**	**ug/kg**	**SW846 8260B**
Acrylonitrile	ND	5000	ug/kg	SW846 8260B
Benzene	ND	250	ug/kg	SW846 8260B
Bromobenzene	ND	250	ug/kg	SW846 8260B
Bromochloromethane	ND	250	ug/kg	SW846 8260B
Bromodichloromethane	ND	250	ug/kg	SW846 8260B
Bromoform	ND	250	ug/kg	SW846 8260B
Bromomethane	**260 J**	**500**	**ug/kg**	**SW846 8260B**
2-Butanone	ND	1000	ug/kg	SW846 8260B
n-Butylbenzene	ND	250	ug/kg	SW846 8260B
sec-Butylbenzene	ND	250	ug/kg	SW846 8260B
tert-Butylbenzene	ND	250	ug/kg	SW846 8260B
Carbon disulfide	ND	250	ug/kg	SW846 8260B
Carbon tetrachloride	ND	250	ug/kg	SW846 8260B
Chlorobenzene	ND	250	ug/kg	SW846 8260B
Chlorodibromomethane	ND	250	ug/kg	SW846 8260B
Chloroethane	ND	500	ug/kg	SW846 8260B
Chloroform	ND	250	ug/kg	SW846 8260B
Chloromethane	ND	500	ug/kg	SW846 8260B
2-Chlorotoluene	ND	250	ug/kg	SW846 8260B
4-Chlorotoluene	ND	250	ug/kg	SW846 8260B
1,2-Dibromo-3-chloro-propane	ND	500	ug/kg	SW846 8260B
1,2-Dibromoethane	ND	250	ug/kg	SW846 8260B
Dibromomethane	ND	250	ug/kg	SW846 8260B
1,2-Dichlorobenzene	ND	250	ug/kg	SW846 8260B
1,3-Dichlorobenzene	ND	250	ug/kg	SW846 8260B
1,4-Dichlorobenzene	ND	250	ug/kg	SW846 8260B
Dichlorodifluoromethane	ND	500	ug/kg	SW846 8260B
1,1-Dichloroethane	ND	250	ug/kg	SW846 8260B
1,2-Dichloroethane	ND	250	ug/kg	SW846 8260B
cis-1,2-Dichloroethene	ND	250	ug/kg	SW846 8260B
trans-1,2-Dichloroethene	ND	250	ug/kg	SW846 8260B
1,1-Dichloroethene	ND	250	ug/kg	SW846 8260B
1,2-Dichloropropane	ND	250	ug/kg	SW846 8260B
1,3-Dichloropropane	ND	250	ug/kg	SW846 8260B
2,2-Dichloropropane	ND	250	ug/kg	SW846 8260B
cis-1,3-Dichloropropene	ND	250	ug/kg	SW846 8260B
trans-1,3-Dichloropropene	ND	250	ug/kg	SW846 8260B
1,1-Dichloropropene	ND	250	ug/kg	SW846 8260B
Ethylbenzene	ND	250	ug/kg	SW846 8260B

(Continued on next page)

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: H6D030205 **Work Order #...:** H2KWV1AA **Matrix.....:** SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Hexachlorobutadiene	ND	250	ug/kg	SW846 8260B
2-Hexanone	ND	1000	ug/kg	SW846 8260B
Iodomethane	**270 J**	**500**	**ug/kg**	**SW846 8260B**
Isopropylbenzene	ND	250	ug/kg	SW846 8260B
p-Isopropyltoluene	ND	250	ug/kg	SW846 8260B
Methylene chloride	ND	250	ug/kg	SW846 8260B
4-Methyl-2-pentanone	ND	1000	ug/kg	SW846 8260B
Naphthalene	ND	250	ug/kg	SW846 8260B
n-Propylbenzene	ND	250	ug/kg	SW846 8260B
Styrene	ND	250	ug/kg	SW846 8260B
1,1,1,2-Tetrachloroethane	ND	250	ug/kg	SW846 8260B
1,1,2,2-Tetrachloroethane	ND	250	ug/kg	SW846 8260B
Tetrachloroethene	ND	250	ug/kg	SW846 8260B
Tetrahydrofuran	ND	1000	ug/kg	SW846 8260B
Toluene	ND	250	ug/kg	SW846 8260B
1,2,3-Trichlorobenzene	ND	250	ug/kg	SW846 8260B
1,2,4-Trichloro-benzene	ND	250	ug/kg	SW846 8260B
1,1,1-Trichloroethane	ND	250	ug/kg	SW846 8260B
1,1,2-Trichloroethane	ND	250	ug/kg	SW846 8260B
Trichloroethene	ND	250	ug/kg	SW846 8260B
Trichlorofluoromethane	ND	500	ug/kg	SW846 8260B
1,2,3-Trichloropropane	ND	250	ug/kg	SW846 8260B
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	250	ug/kg	SW846 8260B
1,2,4-Trimethylbenzene	ND	250	ug/kg	SW846 8260B
1,3,5-Trimethylbenzene	ND	250	ug/kg	SW846 8260B
Vinyl acetate	ND	500	ug/kg	SW846 8260B
Vinyl chloride	ND	250	ug/kg	SW846 8260B
m-Xylene & p-Xylene	ND	250	ug/kg	SW846 8260B
o-Xylene	ND	250	ug/kg	SW846 8260B
Xylenes (total)	ND	250	ug/kg	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	85	(42 - 138)
1,2-Dichloroethane-d4	91	(38 - 144)
Toluene-d8	88	(52 - 137)
Bromofluorobenzene	87	(54 - 151)

NOTE(S):

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

J Estimated result. Result is less than RL.

STL Knoxville - ACS

Method Blank Report

GC/MS Volatiles

Lot-Sample #: H6D040000-386 B **Work Order #:** H2KWV1AA **Matrix:** SOLID

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT	RETENTION TIME	UNITS
None				ug/kg

Data File: /var/chem/gcms/mk.i/K040406.b/h2kwv1aa.d
Report Date: 05-Apr-2006 20:05

STL Knoxville

Volatile Organics by GC/MS

Data file : /var/chem/gcms/mk.i/K040406.b/h2kwv1aa.d
Lab Smp Id: H2KWV1AA Client Smp ID: INTRA-LAB BLANK
Inj Date : 04-APR-2006 18:48
Operator : 063605 Inst ID: mk.i
Smp Info : H2KWV1AA,1,3,,BLK
Misc Info : K040406,MS8260NM,focus.sub
Comment : Volatile Organics by GC/MS
Method : /var/chem/gcms/mk.i/K040406.b/MS8260NM.m
Meth Date : 04-Apr-2006 19:31 tillerm Quant Type: ISTD
Cal Date : 03-FEB-2006 14:40 Cal File: fickb038.d
Als bottle: 5 QC Sample: METHOD BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: focus.sub
Target Version: 3.50
Processing Host: qmidhp01

Concentration Formula: Amt * DF * (Vt*5)/(Ws*Va) * CpndVariable

Vt	5000.00000	Sample Volume Purged
Ws	5.00000	Weight of sample
Va	100.00000	Volume of Methanol Aliquot

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/Kg)
* 1 Fluorobenzene	96	4.284	4.284	(1.000)	1034721	50.0000	
* 2 Chlorobenzene-d5	117	6.777	6.780	(1.000)	729505	50.0000	
* 3 1,4 Dichlorobenzene-d4	152	9.498	9.498	(1.000)	327199	50.0000	
$ 4 1,2-Dichloroethane-d4	65	4.014	4.017	(0.937)	227980	45.7227	2286.1
$ 5 Dibromofluoromethane	113	3.751	3.751	(0.876)	196384	42.7091	2135.4
$ 6 Toluene-d8	98	5.561	5.564	(0.821)	855948	44.0865	2204.3
$ 7 4-Bromofluorobenzene	95	7.910	7.913	(0.833)	346088	43.6912	2184.6
11 Chloromethane (spcc)	50	1.007	1.011	(0.235)	7152	0.50704	25.352
14 Bromomethane	94	1.331	1.338	(0.311)	6038	5.28745	264.37
15 Chloroethane	64	1.511	1.415	(0.353)	1570	~~1.06637~~	~~53.318~~
21 Acetone	43	2.063	2.041	(0.482)	7505	6.83839	341.92
22 *Iodomethane	142	2.118	2.131	(0.494)	24333	5.33470	266.73
36 2-Butanone	43	3.446	3.382	(0.804)	18610	~~10.4920~~	~~524.60~~
45 1,2-Dichloroethane	62	4.284	4.075	(1.000)	13807	~~2.34172~~	~~117.08~~
47 1,2-Dichloropropane (ccc)	63	4.280	4.749	(0.999)	32568	~~6.46512~~	~~323.26~~
90 Hexachlorobutadiene	225	12.014	12.014	(1.265)	385	1.03560	51.780

MS 04/05/06

Data File: /var/chem/gcms/mk.i/K040406.b/h2kwv1aa.d
Report Date: 05-Apr-2006 20:05

STL Knoxville

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: mk.i
Lab File ID: h2kwv1aa.d
Lab Smp Id: H2KWV1AA
Analysis Type: VOA
Quant Type: ISTD
Operator: 063605
Calibration Date: 04-APR-2006
Calibration Time: 17:37
Client Smp ID: INTRA-LAB BLANK
Level: MED
Sample Type: SOIL
Method File: /var/chem/gcms/mk.i/K040406.b/MS8260NM.m
Misc Info: K040406,MS8260NM,focus.sub

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	1075684	537842	2151368	1034721	-3.81
2 Chlorobenzene-d5	737847	368924	1475694	729505	-1.13
3 1,4 Dichlorobenze	307012	153506	614024	327199	6.58

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	4.28	3.78	4.78	4.28	0.00
2 Chlorobenzene-d5	6.78	6.28	7.28	6.78	-0.05
3 1,4 Dichlorobenze	9.50	9.00	10.00	9.50	0.00

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

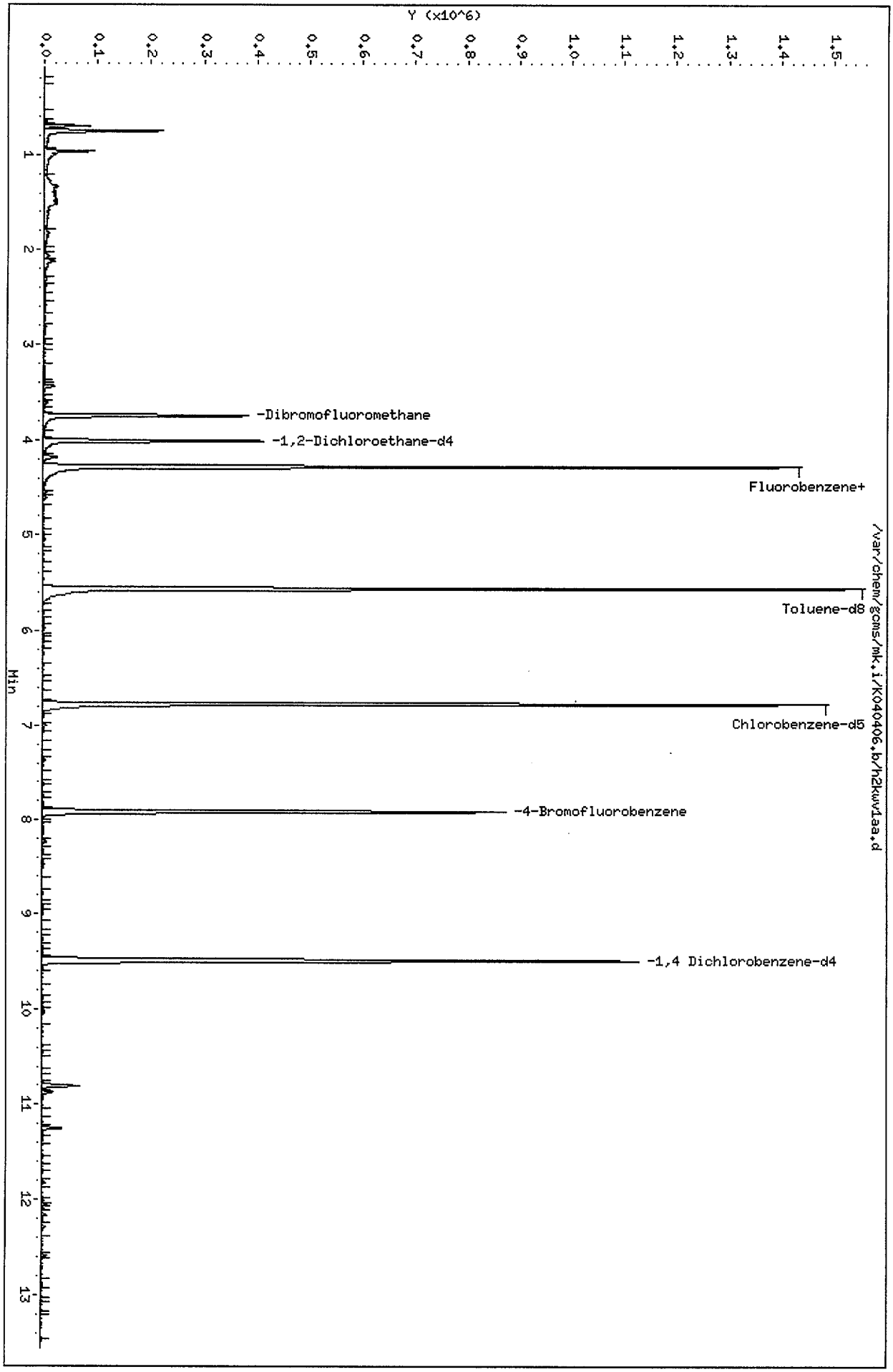
Data File: /var/chem/gcms/mk.i/K040406.b/h2kwv1aa.d
Report Date: 05-Apr-2006 20:05

STL Knoxville

RECOVERY REPORT

Client Name:
Sample Matrix: SOLID
Lab Smp Id: H2KWV1AA
Level: MED
Data Type: MS DATA
SpikeList File: fulllist.spk
Sublist File: focus.sub
Client SDG: H6D040000
Fraction: VOA
Client Smp ID: INTRA-LAB BLANK
Operator: 063605
SampleType: METHOD BLANK
Quant Type: ISTD
Method File: /var/chem/gcms/mk.i/K040406.b/MS8260NM.m
Misc Info: K040406,MS8260NM,focus.sub

SURROGATE COMPOUND	CONC ADDED ug/Kg	CONC RECOVERED ug/Kg	% RECOVERED	LIMITS
$ 4 1,2-Dichloroethane	2500.0	2286.1	91.45	38-144
$ 5 Dibromofluorometha	2500.0	2135.4	85.42	42-138
$ 6 Toluene-d8	2500.0	2204.3	88.17	52-137
$ 7 4-Bromofluorobenze	2500.0	2184.6	87.38	54-151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Date : 04-APR-2006 18:48
Client ID: INTRA-LAB BLANK
Sample Info: H2KWV1AA,1.3,,BLK
Column phase: J&W-624
Instrument: mk.i
Operator: 063605
Column diameter: 0.18
Y (x10^6)
-Dibromofluoromethane
-1,2-Dichloroethane-d4
Fluorobenzene+
Toluene-d8
Chlorobenzene-d5
-4-Bromofluorobenzene
-1,4 Dichlorobenzene-d4
/var/chem/gcms/mk.i/K040406.b/h2kwv1aa.d
Min

Data File: /var/chem/gcms/mk.i/K040406.b/h2kwv1aa.d

Date : 04-APR-2006 18:48

Client ID: INTRA-LAB BLANK

Instrument: mk.i

Sample Info: H2KWV1AA,1,3,,BLK

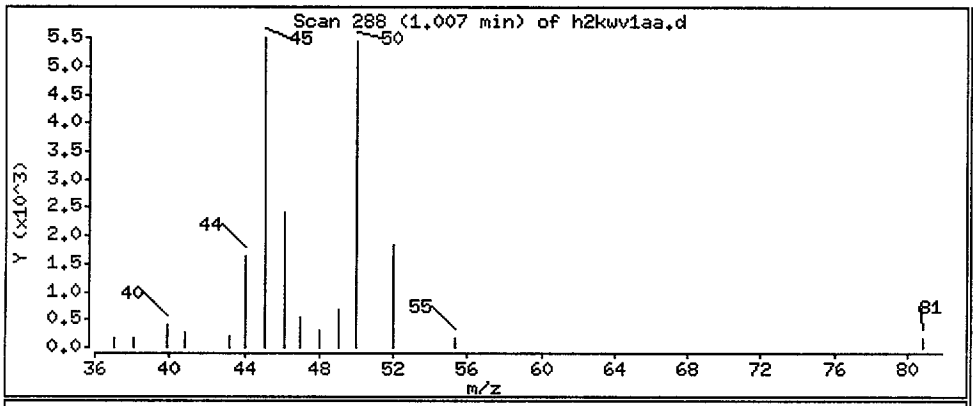
Operator: 063605

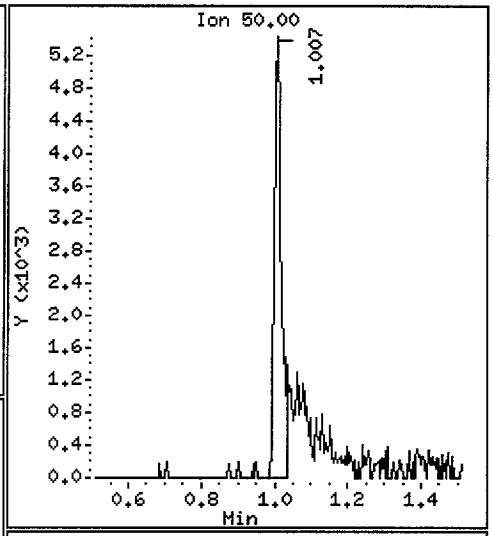
Column phase: J&W-624

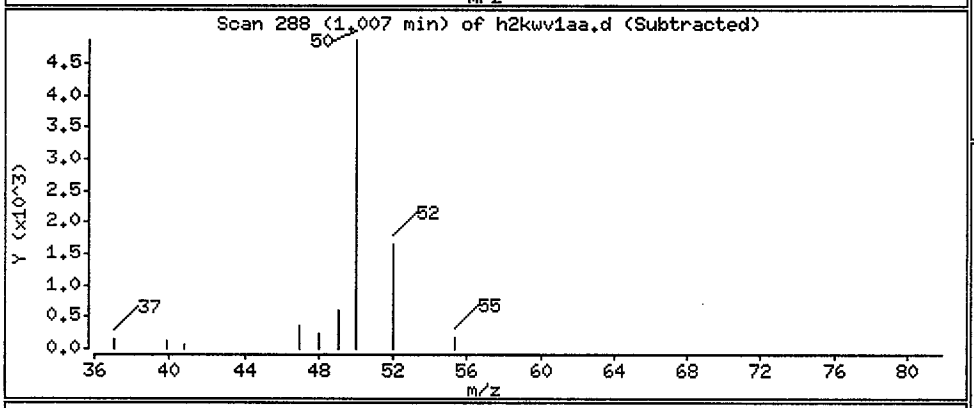
Column diameter: 0.18

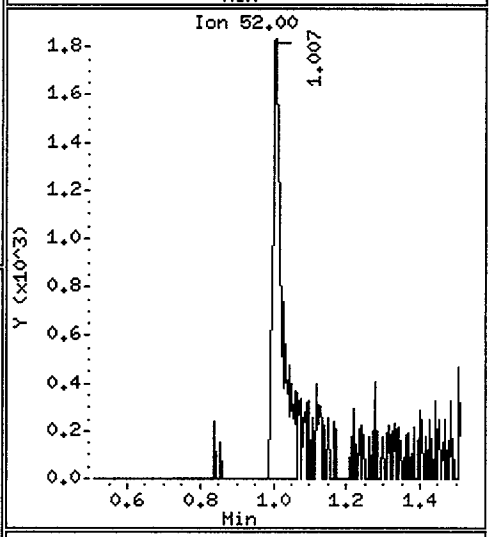
11 Chloromethane (spcc)

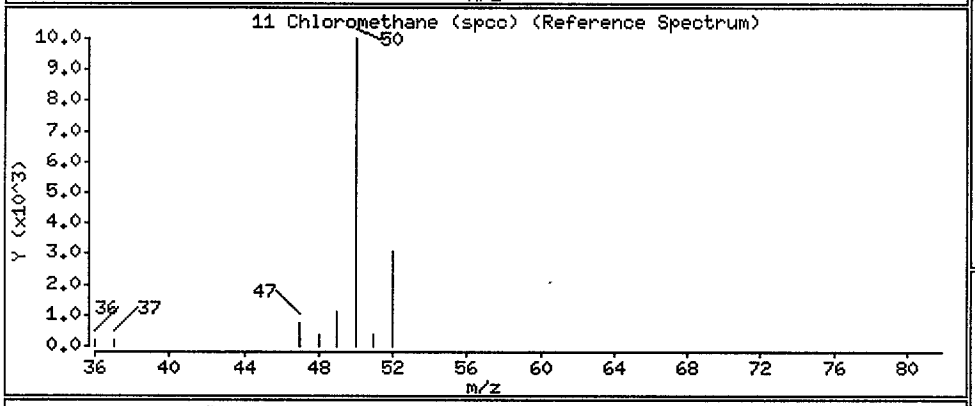
Concentration: 25.352 ug/Kg

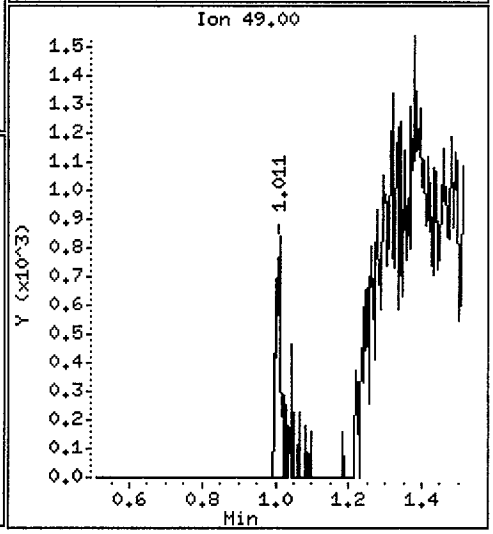


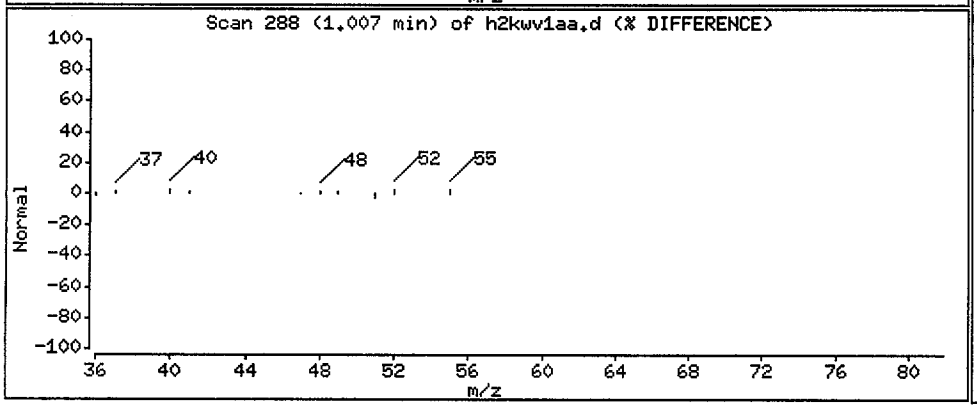












Data File: /var/chem/gcms/mk.i/K040406.b/h2kwv1aa.d

Date : 04-APR-2006 18:48

Client ID: INTRA-LAB BLANK

Instrument: mk.i

Sample Info: H2KWV1AA,1,3,,BLK

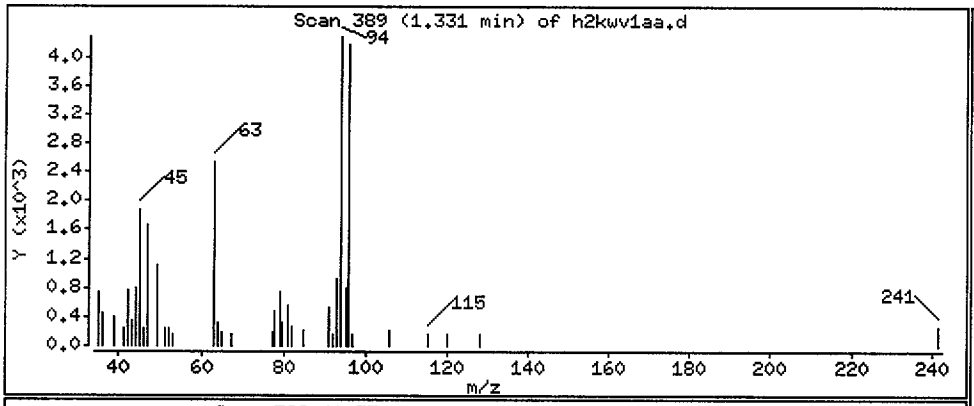
Operator: 063605

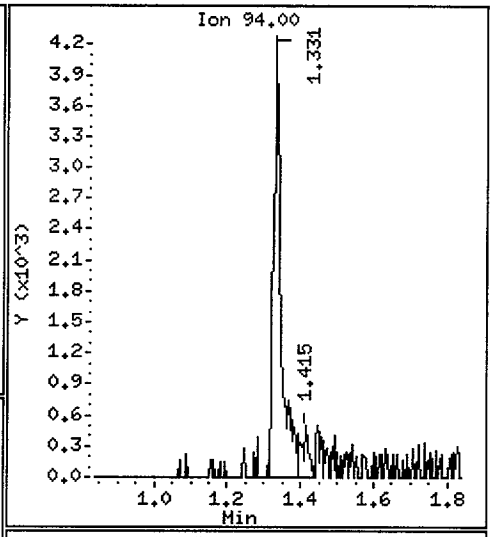
Column phase: J&W-624

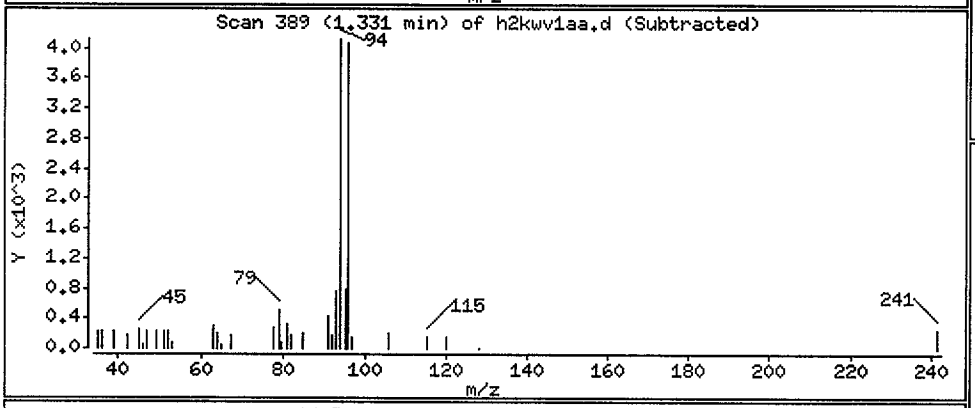
Column diameter: 0.18

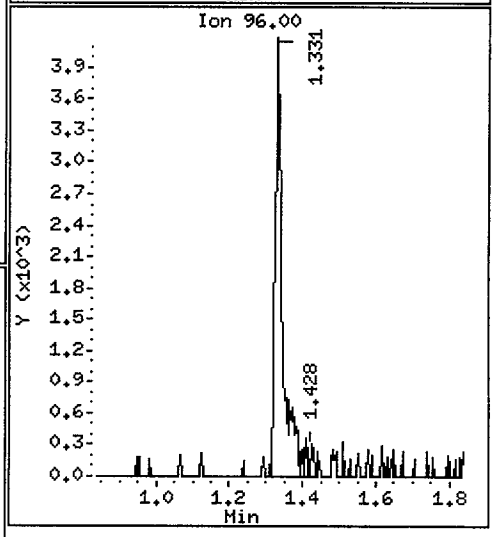
14 Bromomethane

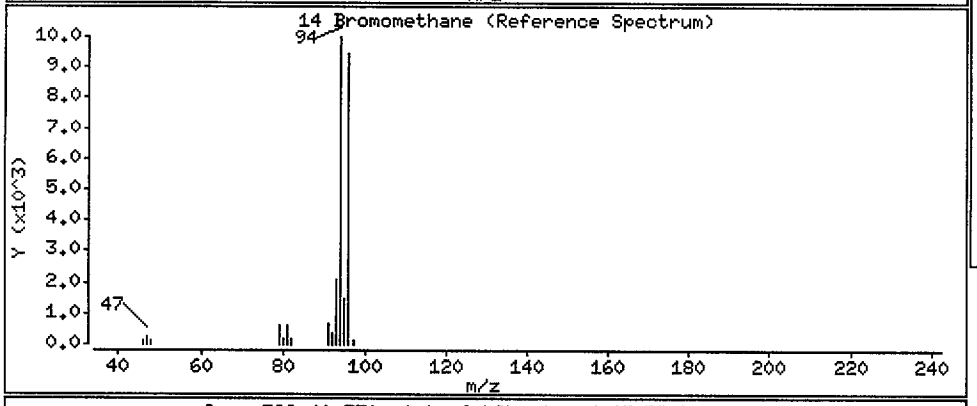
Concentration: 264.37 ug/Kg

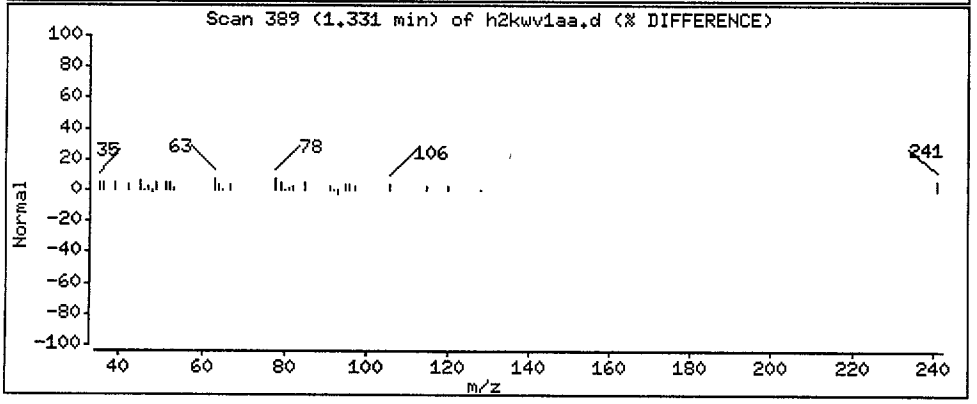












Data File: /var/chem/gcms/mk.i/K040406.b/h2kwv1aa.d

Date : 04-APR-2006 18:48

Client ID: INTRA-LAB BLANK

Instrument: mk.i

Sample Info: H2KWV1AA,1,3,,BLK

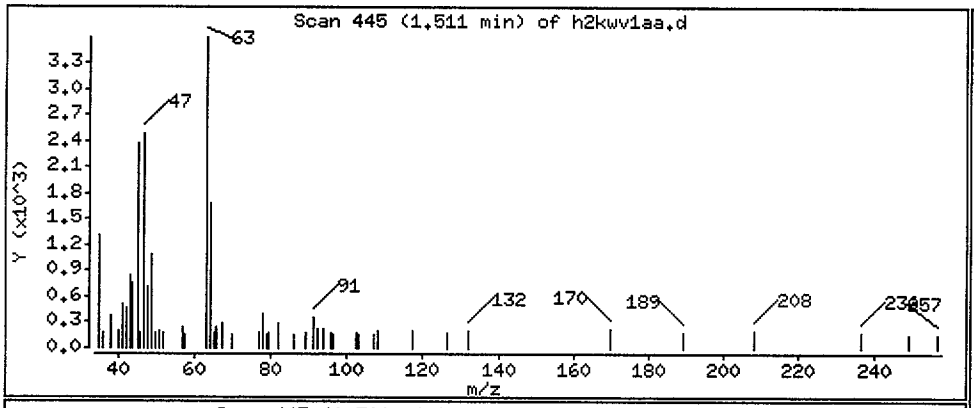
Operator: 063605

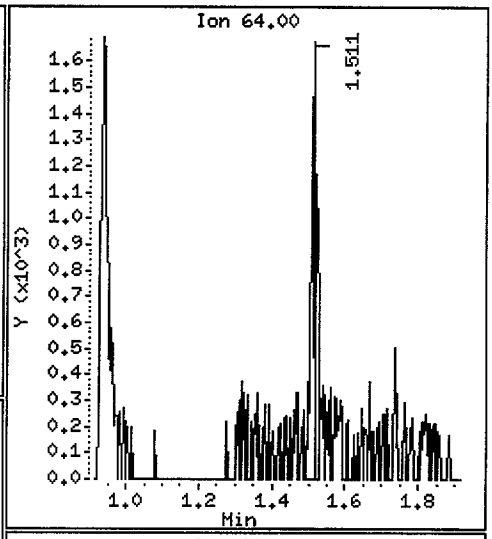
Column phase: J&W-624

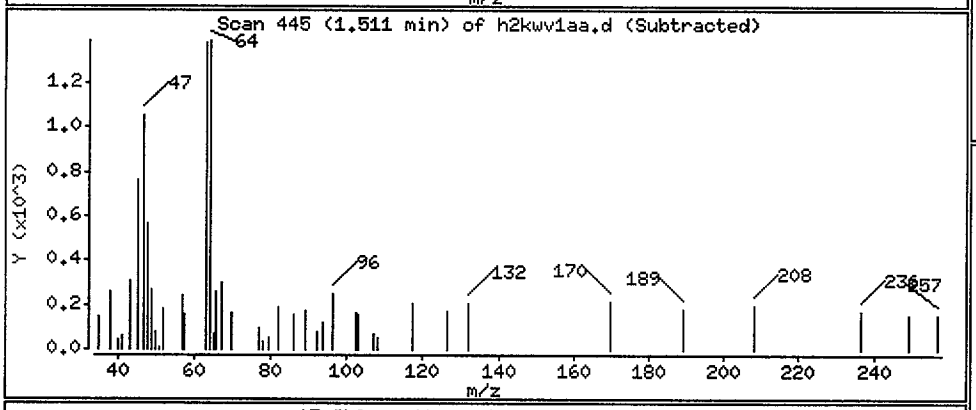
Column diameter: 0.18

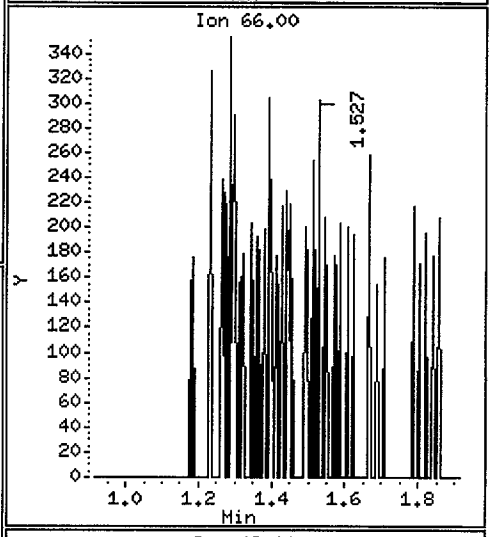
15 Chloroethane

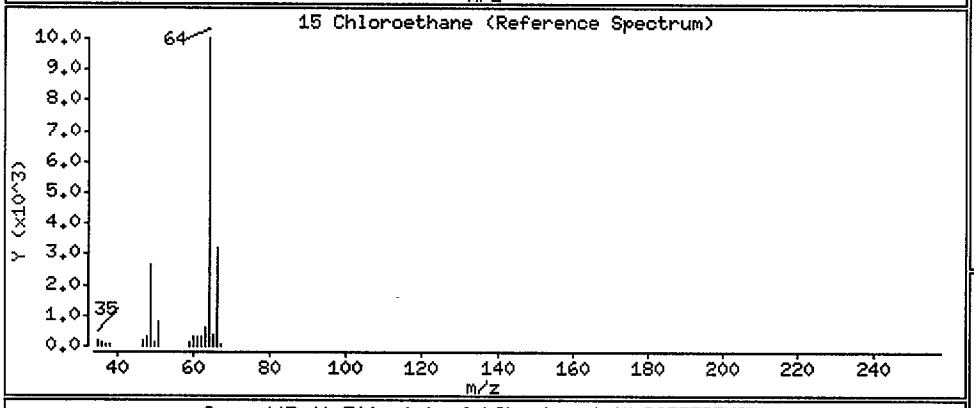
Concentration: 53.318 ug/Kg

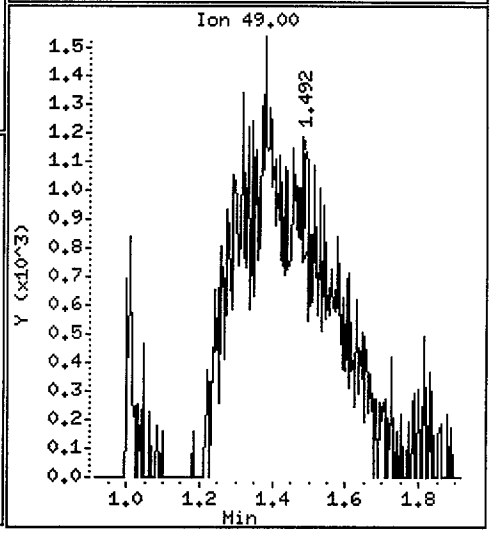


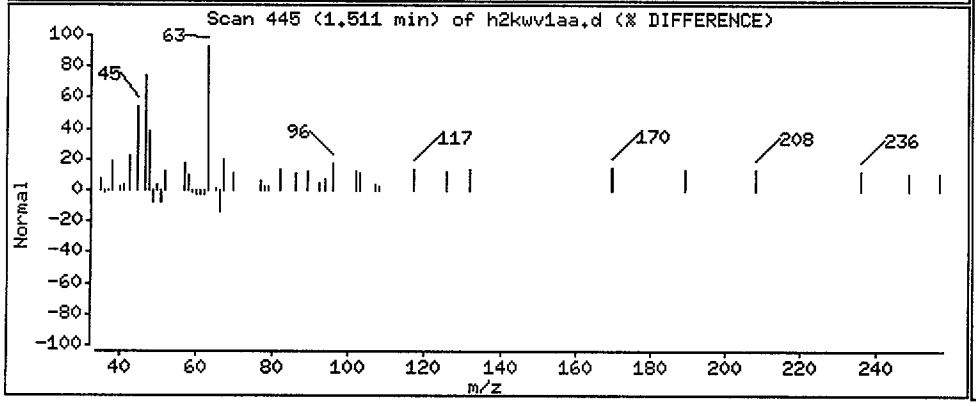












Data File: /var/chem/gcms/mk.i/K040406.b/h2kwv1aa.d

Date : 04-APR-2006 18:48

Client ID: INTRA-LAB BLANK

Instrument: mk.i

Sample Info: H2KWV1AA,1,3,,BLK

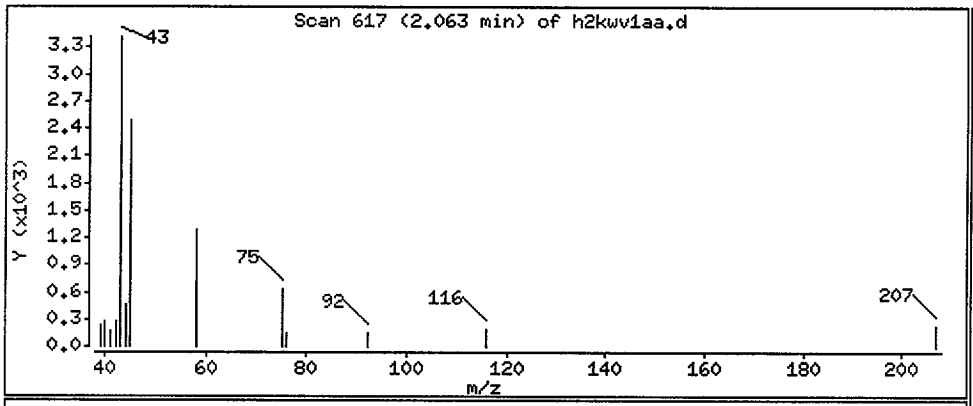
Operator: 063605

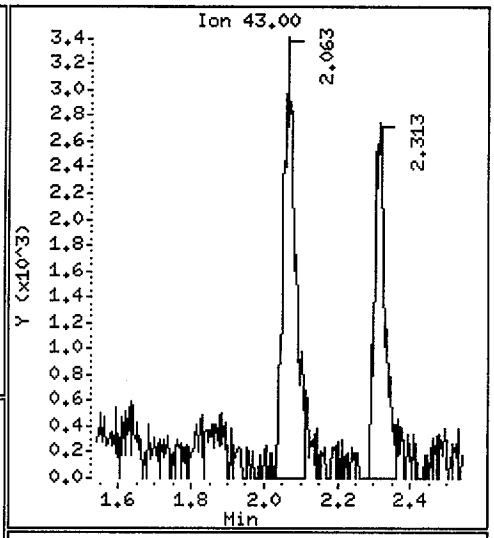
Column phase: J&W-624

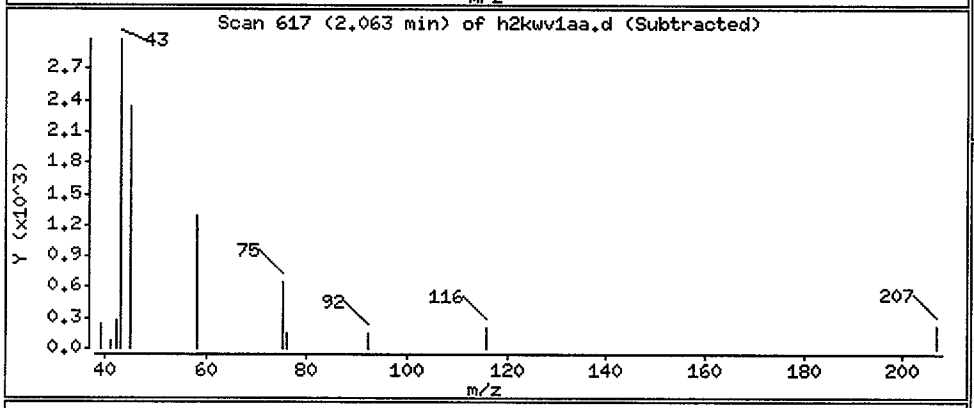
Column diameter: 0.18

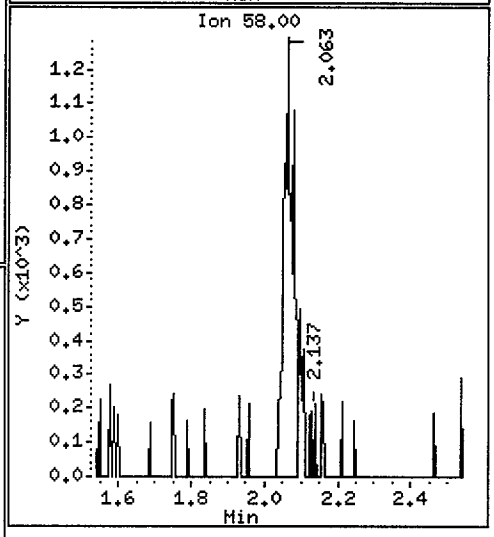
21 Acetone

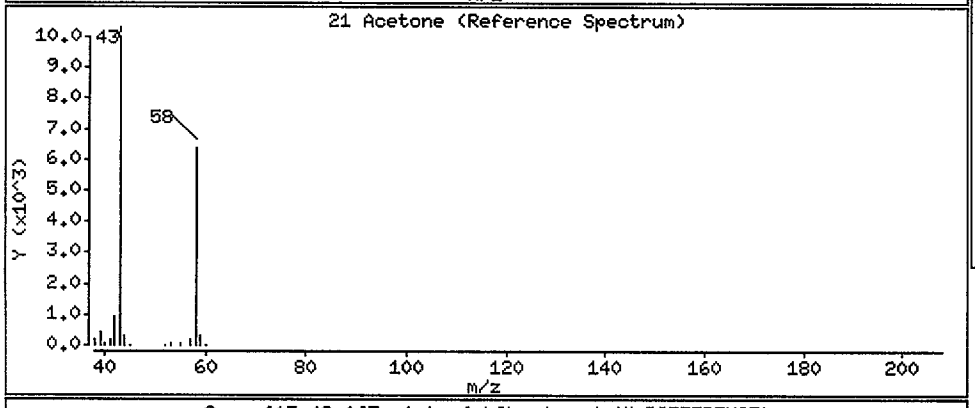
Concentration: 341.92 ug/Kg

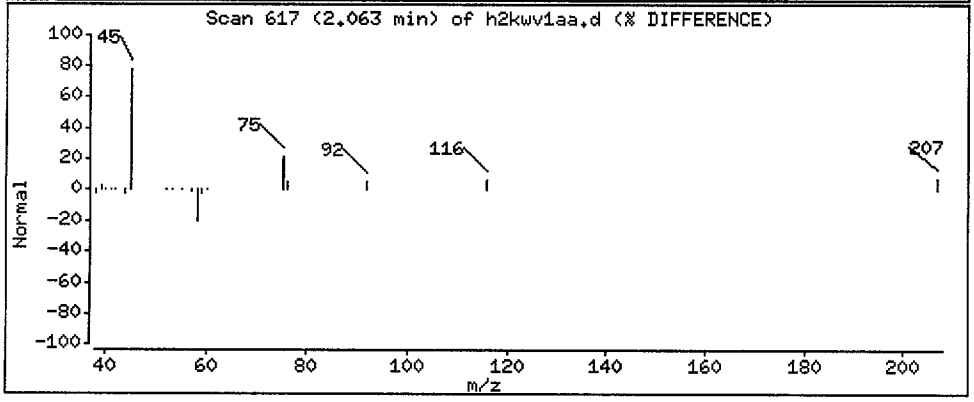












Data File: /var/chem/gcms/mk.i/K040406.b/h2kwv1aa.d

Date : 04-APR-2006 18:48

Client ID: INTRA-LAB BLANK

Instrument: mk.i

Sample Info: H2KWV1AA,1,3,,BLK

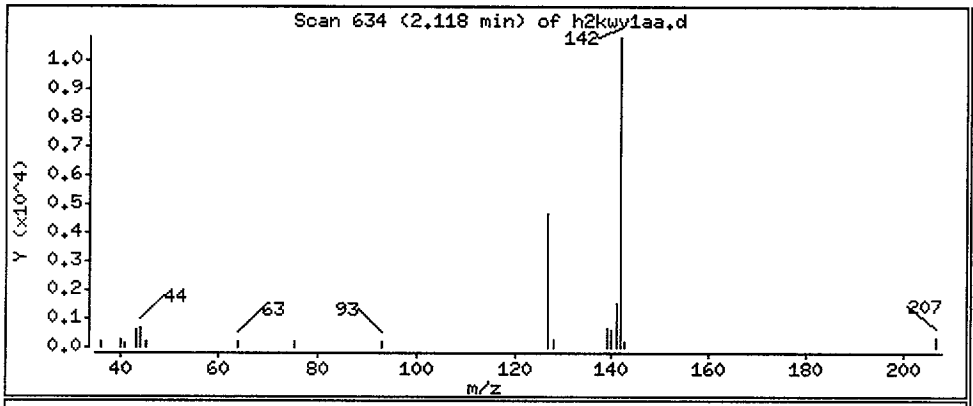
Operator: 063605

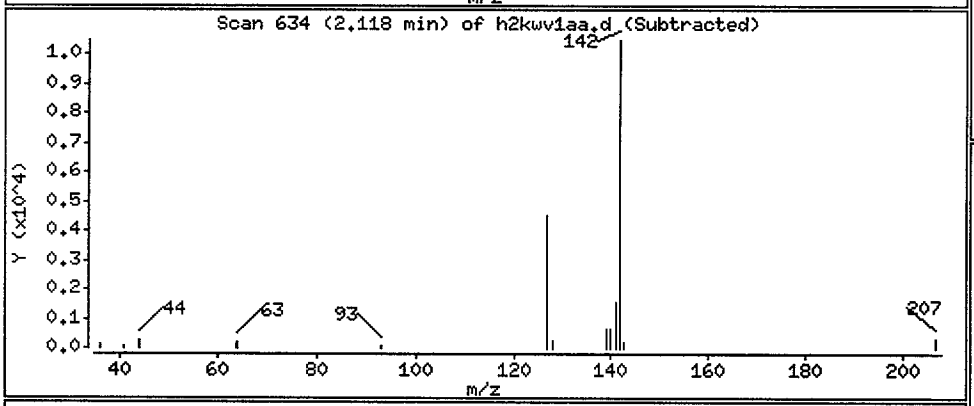
Column phase: J&W-624

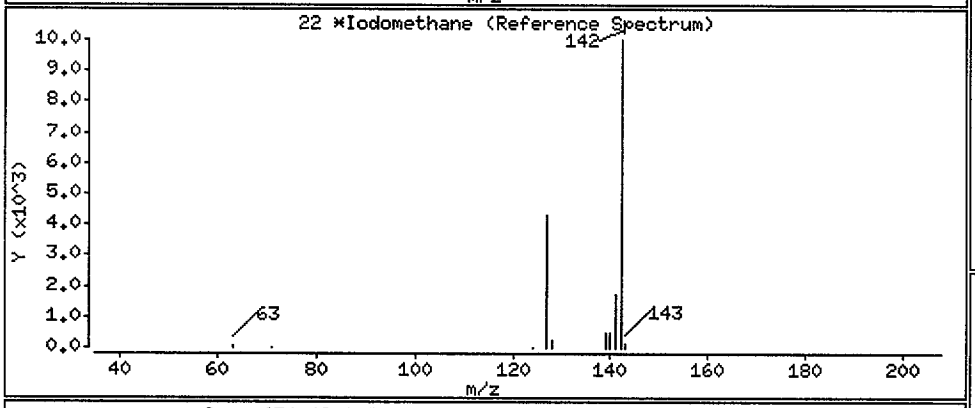
Column diameter: 0.18

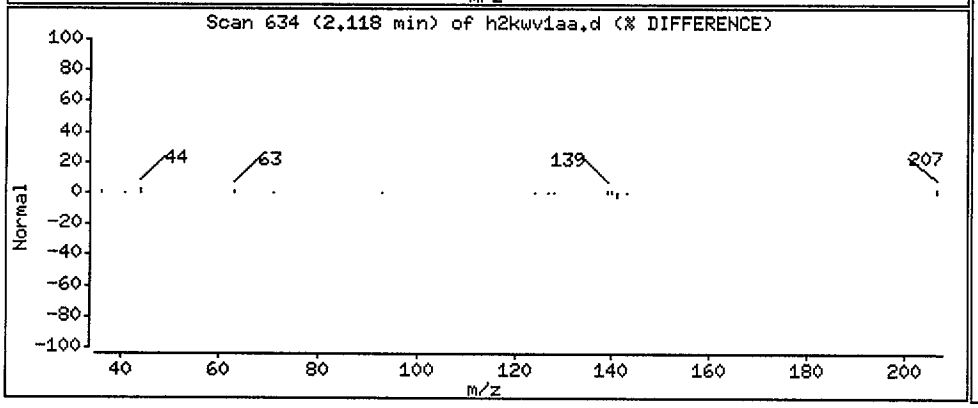
22 *Iodomethane

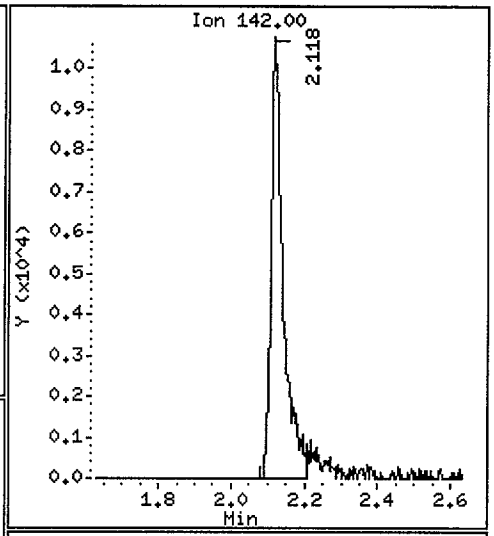
Concentration: 266.73 ug/Kg

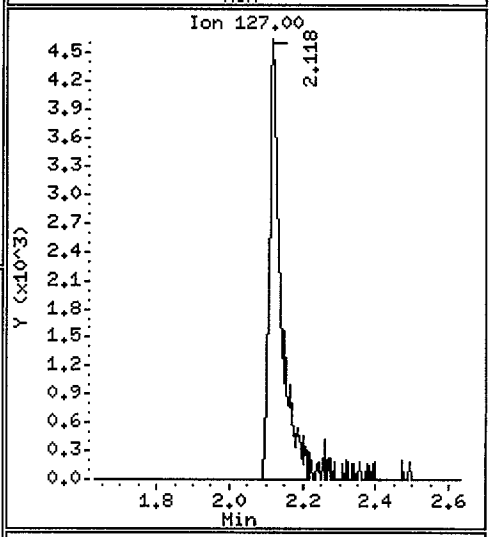


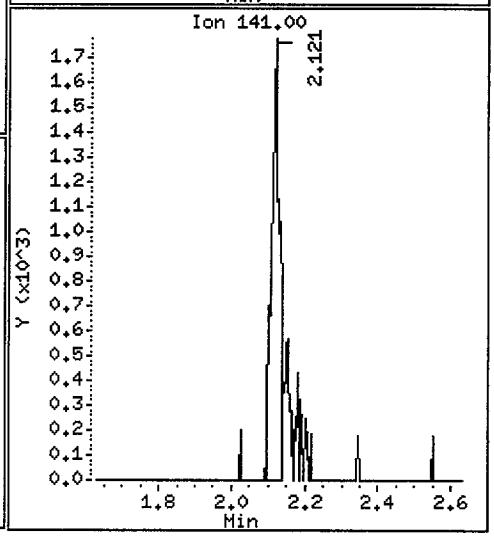












Data File: /var/chem/gcms/mk.i/K040406.b/h2kwv1aa.d

Date : 04-APR-2006 18:48

Client ID: INTRA-LAB BLANK

Instrument: mk.i

Sample Info: H2KWV1AA,1,3,,BLK

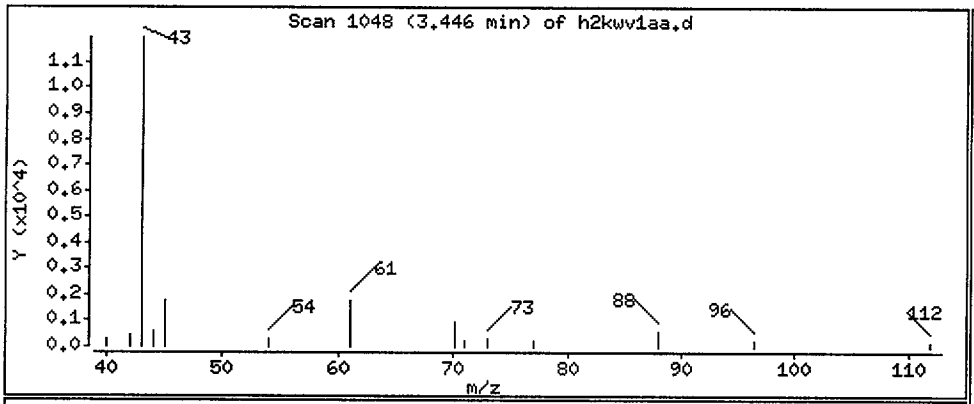
Operator: 063605

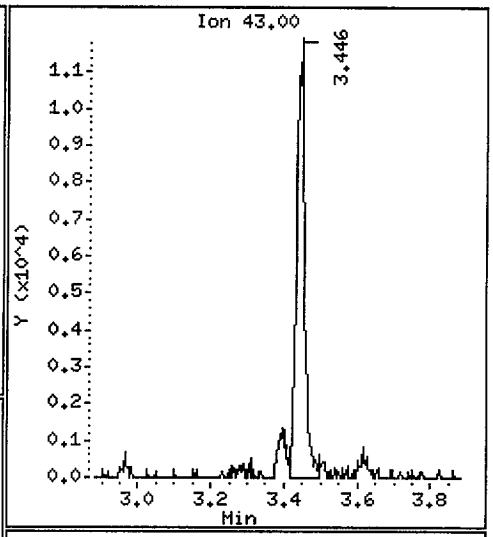
Column phase: J&W-624

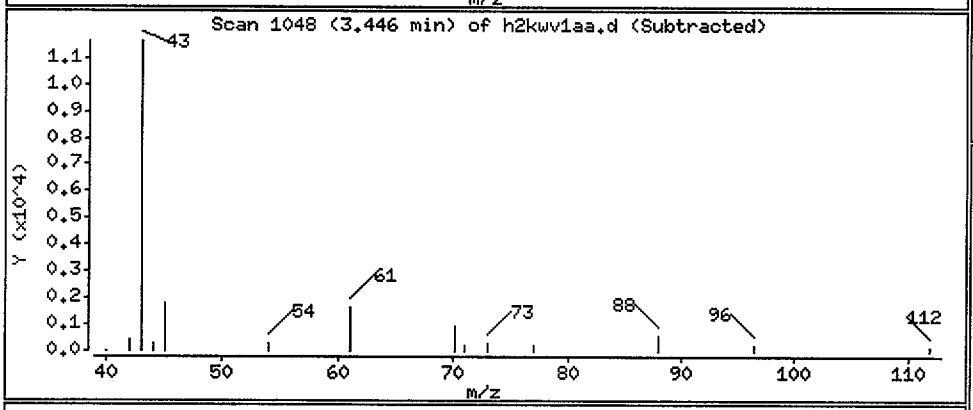
Column diameter: 0.18

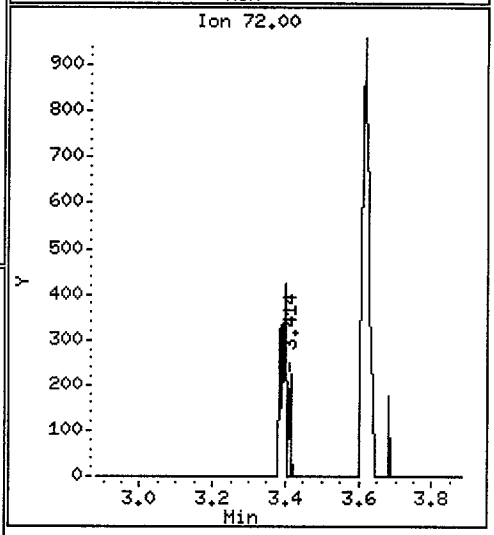
36 2-Butanone

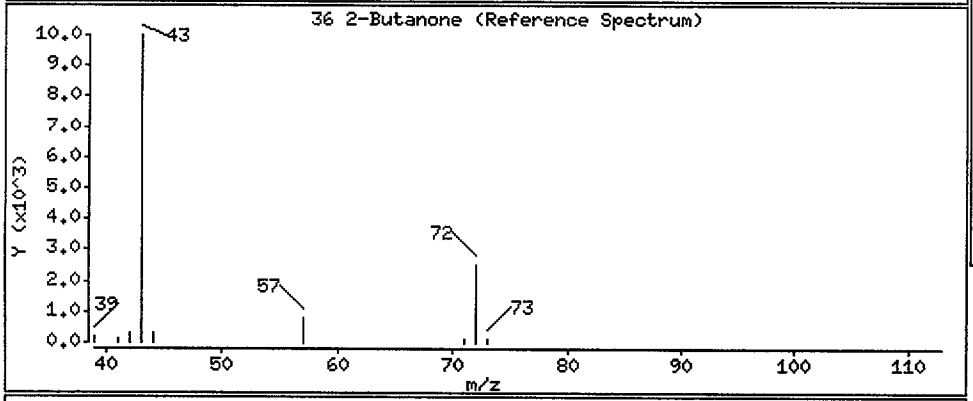
Concentration: 524.60 ug/Kg

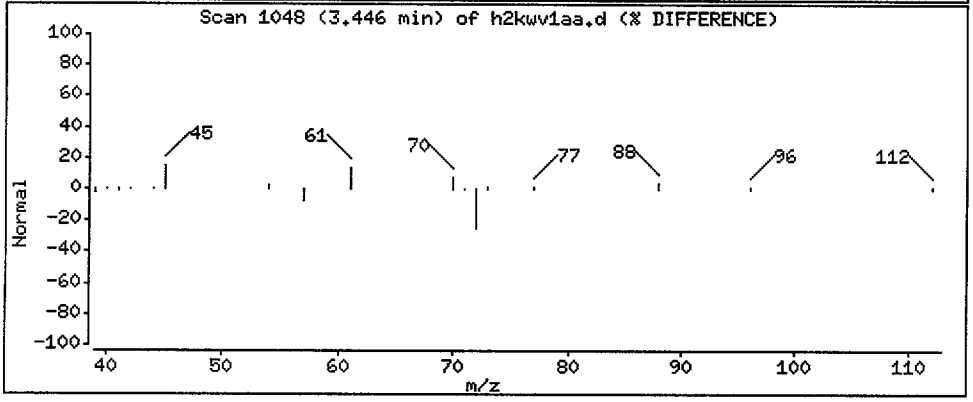












Data File: /var/chem/gcms/mk.i/K040406.b/h2kwv1aa.d

Date : 04-APR-2006 18:48

Client ID: INTRA-LAB BLANK

Instrument: mk.i

Sample Info: H2KWV1AA,1,3,,BLK

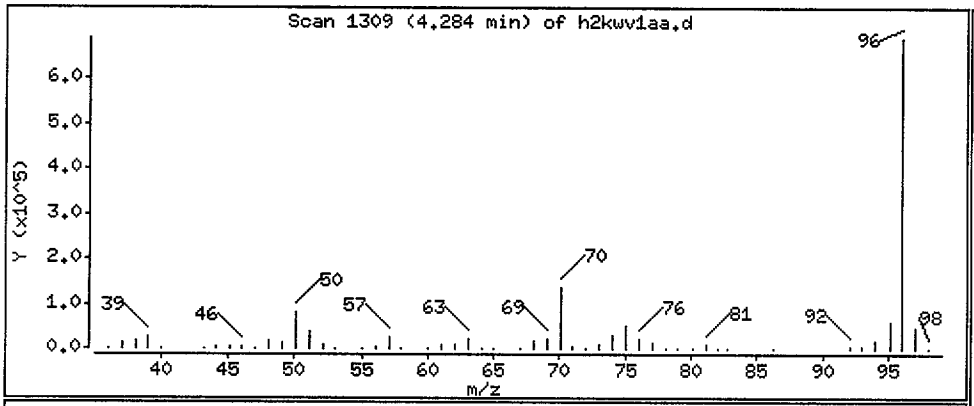
Operator: 063605

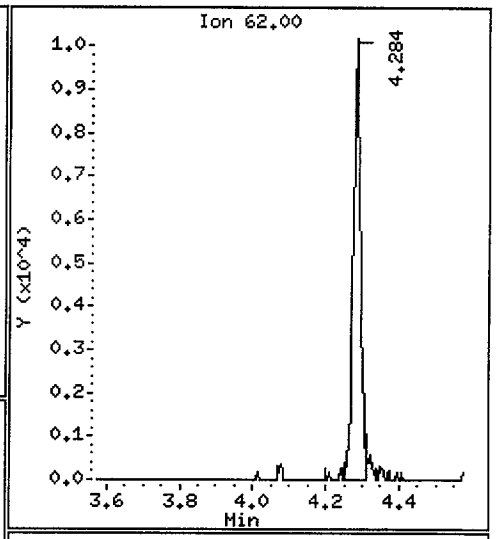
Column phase: J&W-624

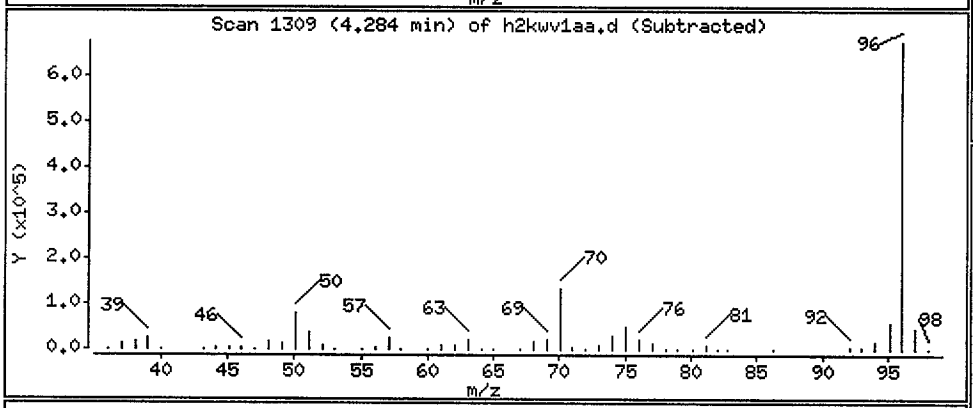
Column diameter: 0.18

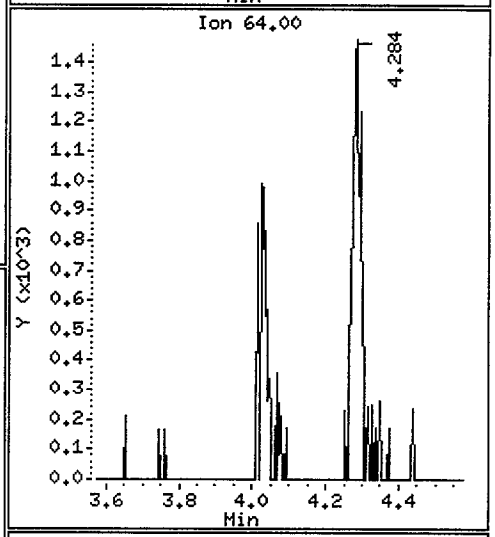
45 1,2-Dichloroethane

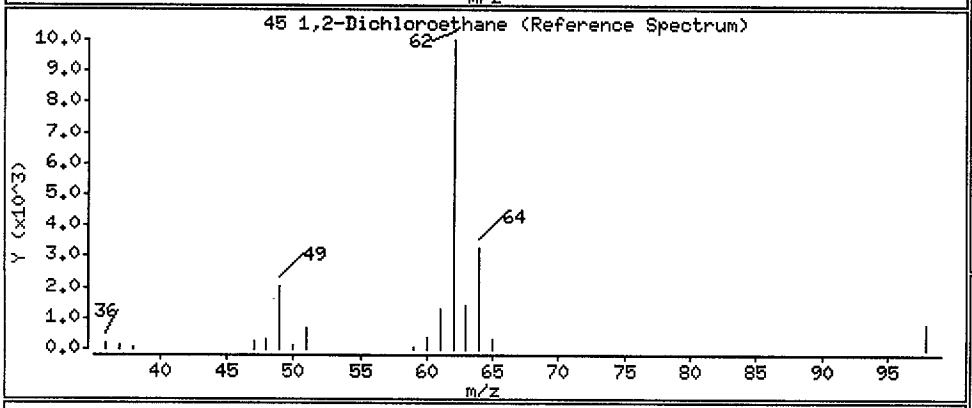
Concentration: 117.08 ug/Kg

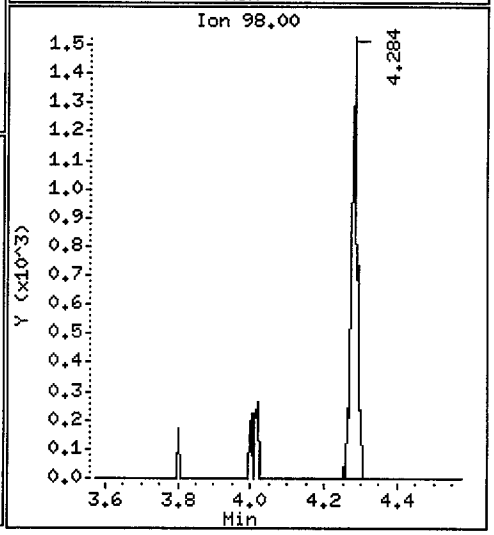


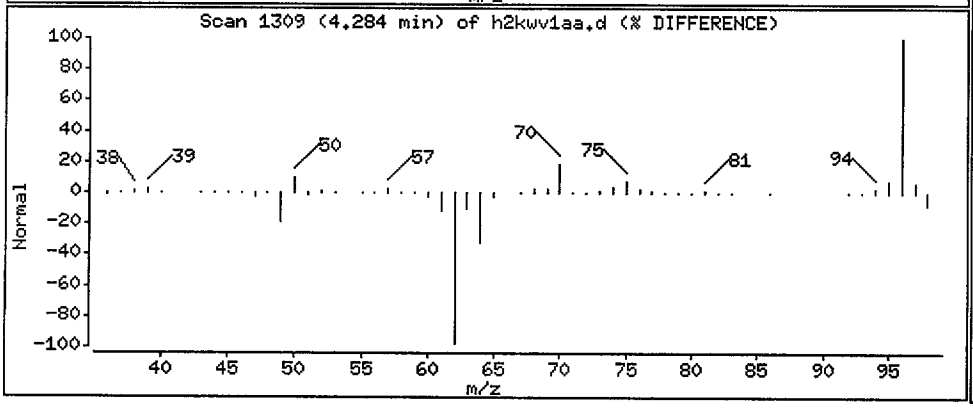












Data File: /var/chem/gcms/mk.i/K040406.b/h2kwv1aa.d

Date : 04-APR-2006 18:48

Client ID: INTRA-LAB BLANK

Instrument: mk.i

Sample Info: H2KWV1AA,1,3,,BLK

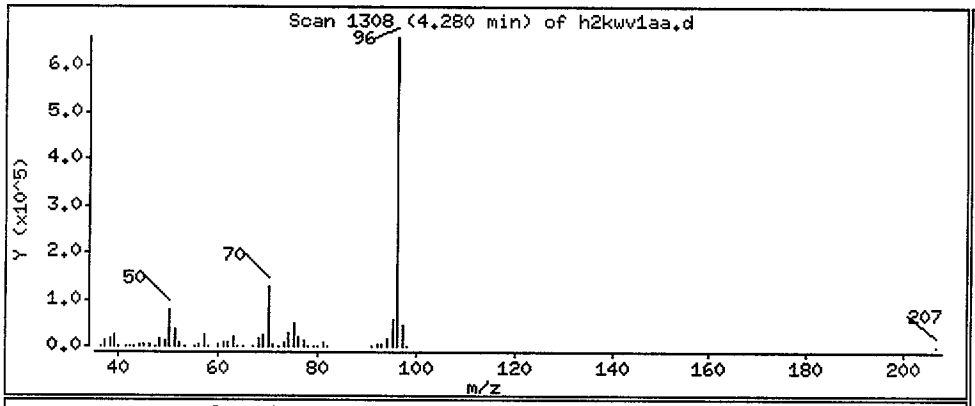
Operator: 063605

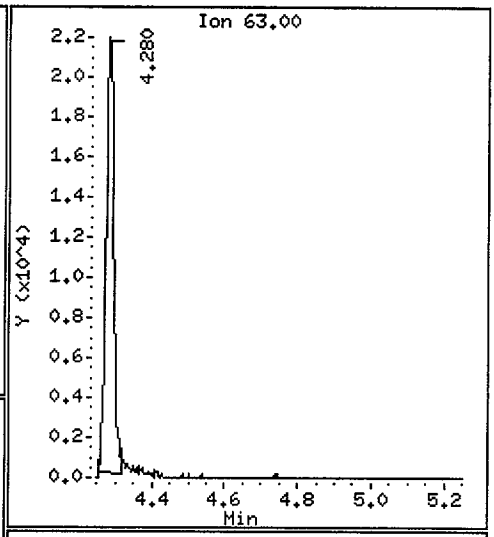
Column phase: J&W-624

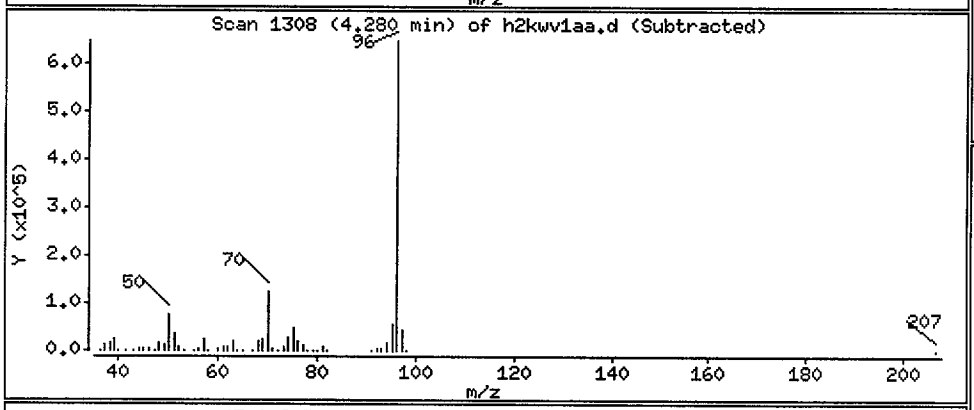
Column diameter: 0.18

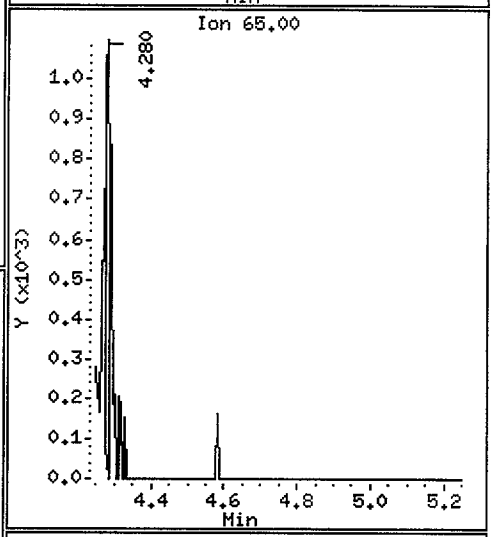
47 1,2-Dichloropropane (ccc)

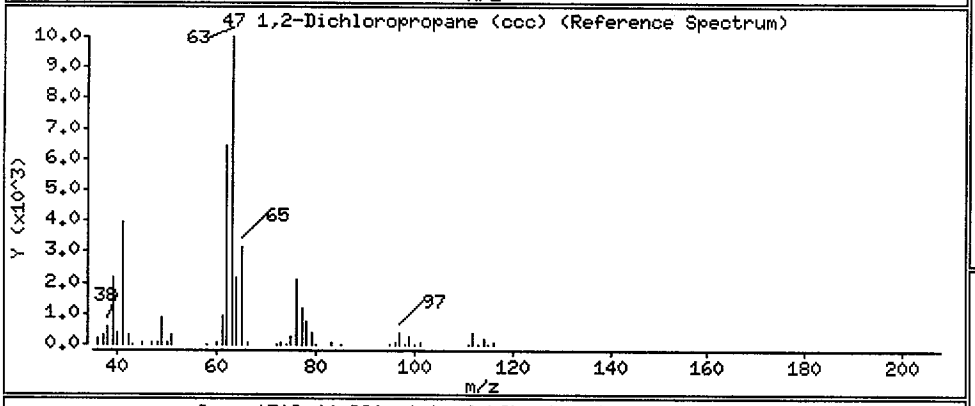
Concentration: 323.26 ug/Kg

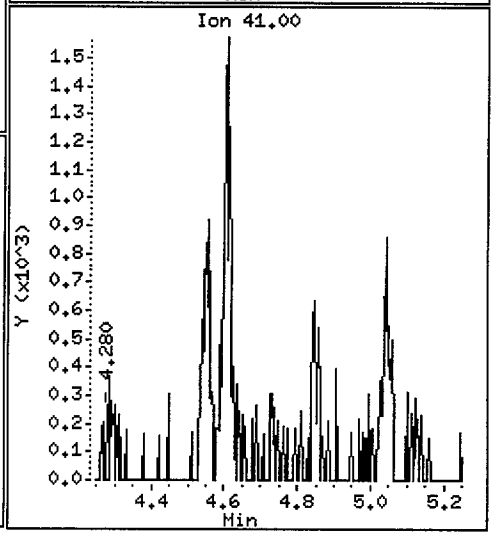


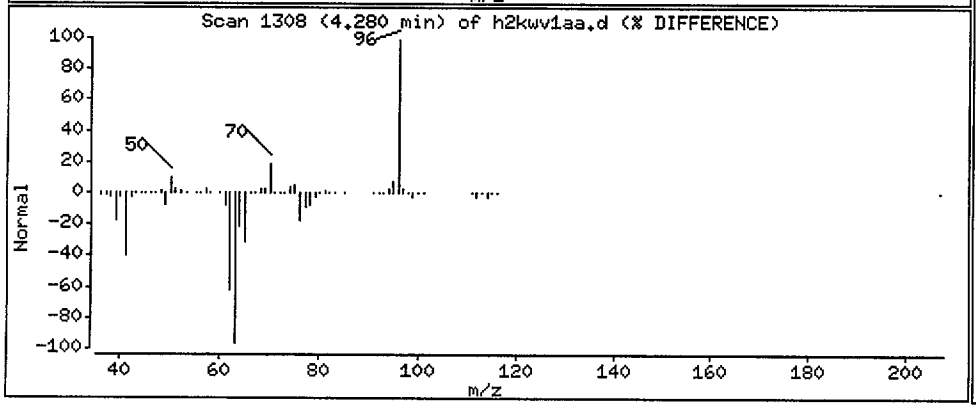












Data File: /var/chem/gcms/mk.i/K040406.b/h2kwv1aa.d

Date : 04-APR-2006 18:48

Client ID: INTRA-LAB BLANK

Instrument: mk.i

Sample Info: H2KWV1AA,1,3,,BLK

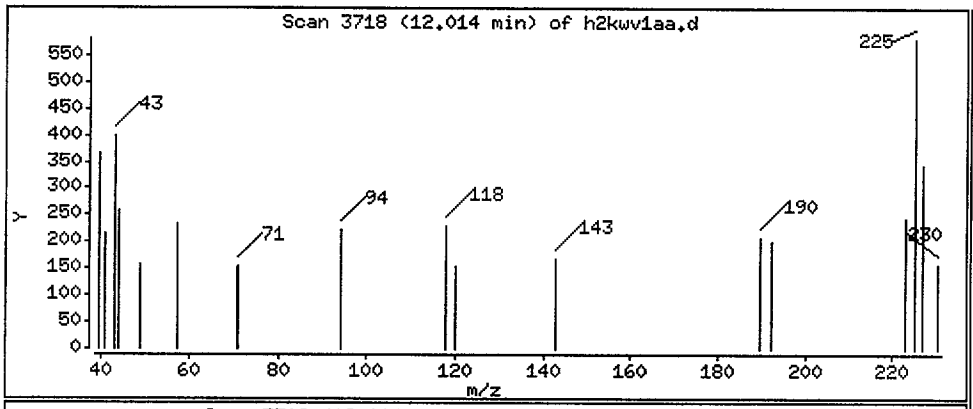
Operator: 063605

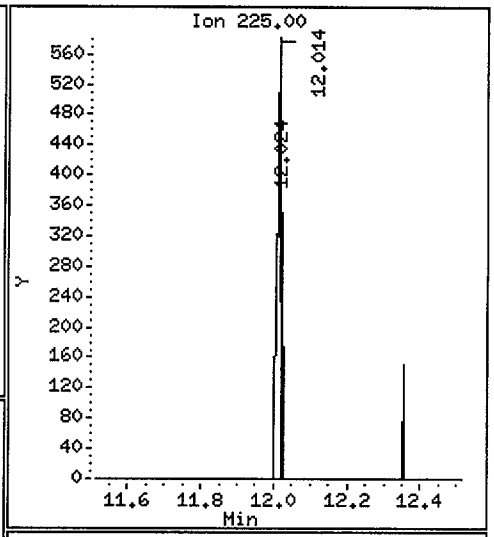
Column phase: J&W-624

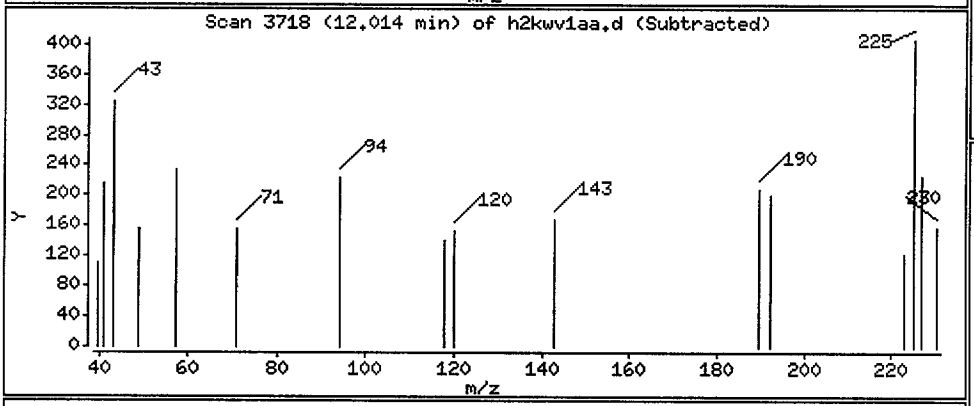
Column diameter: 0.18

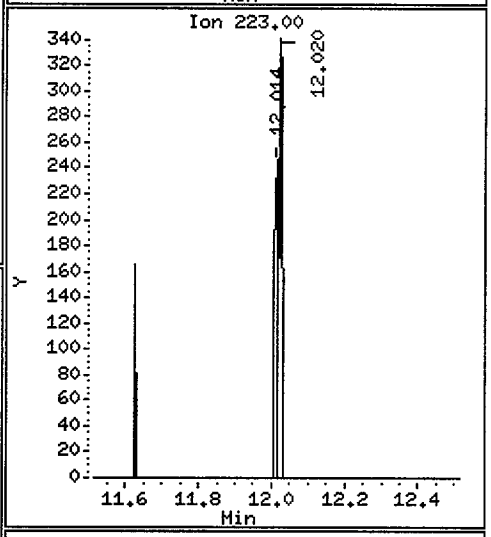
90 Hexachlorobutadiene

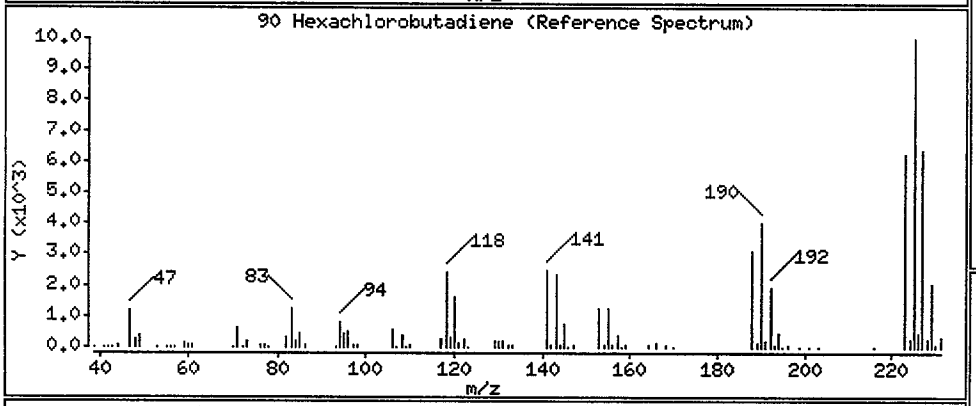
Concentration: 51.780 ug/Kg

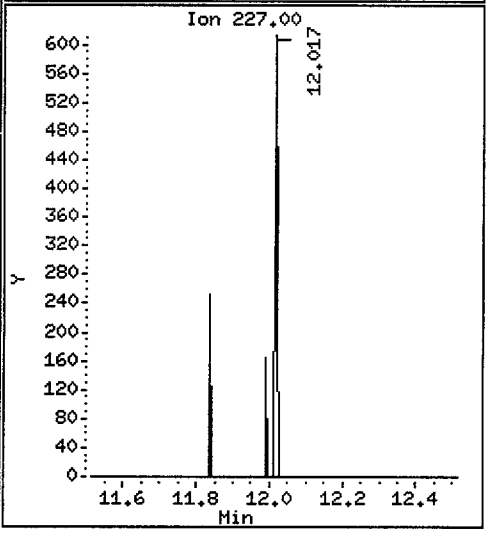


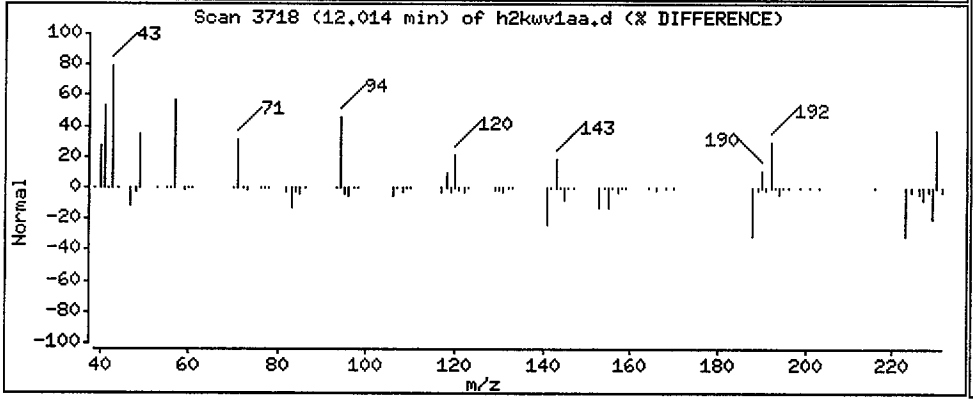












Data File: /var/chem/gcms/mk.i/K040406.b/h2kwv1aa.d
Report Date: 05-Apr-2006 20:07

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Volatile Organics by GC/MS

Data file : /var/chem/gcms/mk.i/K040406.b/h2kwv1aa.d
Lab Smp Id: H2KWV1AA Client Smp ID: INTRA-LAB BLANK
Inj Date : 04-APR-2006 18:48
Operator : 063605 Inst ID: mk.i
Smp Info : H2KWV1AA,1,3,,BLK
Misc Info : K040406,MS8260NM,focus.sub
Comment : Volatile Organics by GC/MS
Method : /var/chem/gcms/mk.i/K040406.b/MS8260NM.m
Meth Date : 05-Apr-2006 20:06 tillerm Quant Type: ISTD
Cal Date : 03-FEB-2006 14:40 Cal File: fickb038.d
Als bottle: 5 QC Sample: METHOD BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: focus.sub
Target Version: 3.50
Processing Host: qmidhp01

Concentration Formula: Amt * DF * (Vt*5)/(Ws*Va) * CpndVariable

Vt	5000.00000	Sample Volume Purged
Ws	5.00000	Weight of sample
Va	100.00000	Volume of Methanol Aliquot

Cpnd Variable Local Compound Variable

ISTD	RT	HEIGHT	AMOUNT
* 1 Fluorobenzene	4.284	1438605	50.000

	CONCENTRATIONS			QUANT			
RT	HEIGHT	ON-COL(ug/L)	FINAL(ug/Kg)	QUAL	LIBRARY	LIB ENTRY	CPND #
Carbon dioxide				CAS #: 124-38-9			
0.751	222096	7.71914459	385.96	5	NIST05.1	80	1

MT 4/5/06

Data File: /var/chem/gcms/mk.i/K040406.b/h2kwv1aa.d

Date : 04-APR-2006 18:48

Client ID: INTRA-LAB BLANK

Instrument: mk.i

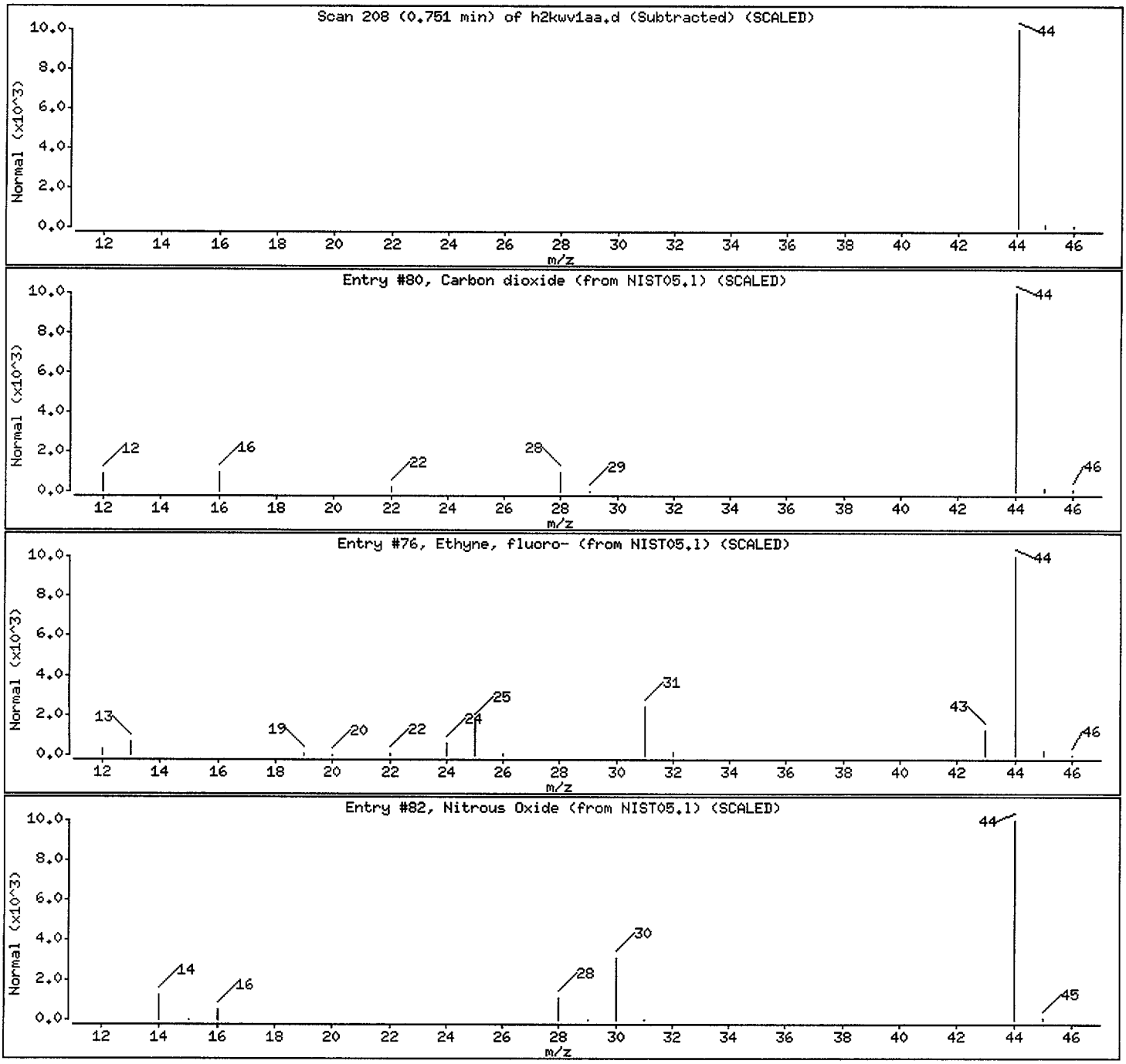
Sample Info: H2KWV1AA,1,3,,BLK

Operator: 063605

Column phase: J&W-624

Column diameter: 0.18

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Carbon dioxide	124-38-9	NIST05.l	80	5	CO2	44
Ethyne, fluoro-	2713-09-9	NIST05.l	76	3	C2HF	44
Nitrous Oxide	10024-97-2	NIST05.l	82	2	N2O	44



LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: H6D030205 **Work Order #...:** H2KWV1AC **Matrix.....:** SOLID
LCS Lot-Sample#: H6D040000-386
Prep Date.....: 04/04/06 **Analysis Date..:** 04/04/06
Prep Batch #...: 6094386
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Acetone	54	(30 - 168)	SW846 8260B
Acrylonitrile	104	(50 - 130)	SW846 8260B
Benzene	**99**	**(80 - 120)**	**SW846 8260B**
Bromobenzene	92	(79 - 129)	SW846 8260B
Bromochloromethane	92	(80 - 120)	SW846 8260B
Bromodichloromethane	89	(65 - 129)	SW846 8260B
Bromoform	90	(49 - 130)	SW846 8260B
Bromomethane	85	(30 - 120)	SW846 8260B
2-Butanone	49	(31 - 143)	SW846 8260B
n-Butylbenzene	128	(68 - 155)	SW846 8260B
sec-Butylbenzene	104	(77 - 148)	SW846 8260B
tert-Butylbenzene	100	(80 - 138)	SW846 8260B
Carbon disulfide	97	(41 - 141)	SW846 8260B
Carbon tetrachloride	97	(41 - 151)	SW846 8260B
Chlorobenzene	**101**	**(73 - 127)**	**SW846 8260B**
Chlorodibromomethane	89	(64 - 137)	SW846 8260B
Chloroethane	33	(30 - 120)	SW846 8260B
Chloroform	97	(77 - 125)	SW846 8260B
Chloromethane	98	(30 - 125)	SW846 8260B
2-Chlorotoluene	101	(77 - 140)	SW846 8260B
4-Chlorotoluene	100	(80 - 141)	SW846 8260B
1,2-Dibromo-3-chloro-propane	88	(64 - 124)	SW846 8260B
1,2-Dibromoethane	86	(75 - 134)	SW846 8260B
Dibromomethane	85	(75 - 124)	SW846 8260B
1,2-Dichlorobenzene	102	(78 - 127)	SW846 8260B
1,3-Dichlorobenzene	103	(80 - 125)	SW846 8260B
1,4-Dichlorobenzene	103	(80 - 125)	SW846 8260B
Dichlorodifluoromethane	67	(40 - 122)	SW846 8260B
1,1-Dichloroethane	91	(68 - 129)	SW846 8260B
1,2-Dichloroethane	94	(77 - 120)	SW846 8260B
cis-1,2-Dichloroethene	94	(75 - 123)	SW846 8260B
trans-1,2-Dichloroethene	95	(53 - 135)	SW846 8260B
1,1-Dichloroethene	**98**	**(56 - 134)**	**SW846 8260B**

(Continued on next page)

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: H6D030205 **Work Order #...:** H2KWV1AC **Matrix.....:** SOLID
LCS Lot-Sample#: H6D040000-386

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
1,2-Dichloropropane	93	(68 - 120)	SW846 8260B
1,3-Dichloropropane	93	(80 - 130)	SW846 8260B
2,2-Dichloropropane	85	(51 - 149)	SW846 8260B
cis-1,3-Dichloropropene	94	(73 - 138)	SW846 8260B
trans-1,3-Dichloropropene	93	(63 - 152)	SW846 8260B
1,1-Dichloropropene	94	(66 - 130)	SW846 8260B
Ethylbenzene	104	(76 - 128)	SW846 8260B
Hexachlorobutadiene	110	(59 - 151)	SW846 8260B
2-Hexanone	50	(34 - 128)	SW846 8260B
Isopropylbenzene	104	(74 - 130)	SW846 8260B
p-Isopropyltoluene	106	(79 - 137)	SW846 8260B
Methylene chloride	94	(30 - 161)	SW846 8260B
4-Methyl-2-pentanone	50	(34 - 127)	SW846 8260B
Naphthalene	92	(63 - 149)	SW846 8260B
n-Propylbenzene	103	(77 - 151)	SW846 8260B
Styrene	98	(69 - 133)	SW846 8260B
1,1,1,2-Tetrachloroethane	93	(70 - 134)	SW846 8260B
1,1,2,2-Tetrachloroethane	93	(66 - 130)	SW846 8260B
Tetrachloroethene	97	(75 - 135)	SW846 8260B
Toluene	**99**	**(80 - 127)**	**SW846 8260B**
1,2,3-Trichlorobenzene	106	(75 - 133)	SW846 8260B
1,2,4-Trichloro-benzene	103	(74 - 138)	SW846 8260B
1,1,1-Trichloroethane	91	(55 - 135)	SW846 8260B
1,1,2-Trichloroethane	88	(77 - 124)	SW846 8260B
Trichloroethene	**94**	**(73 - 122)**	**SW846 8260B**
Trichlorofluoromethane	116	(30 - 120)	SW846 8260B
1,2,3-Trichloropropane	87	(56 - 143)	SW846 8260B
1,2,4-Trimethylbenzene	101	(79 - 143)	SW846 8260B
1,3,5-Trimethylbenzene	102	(80 - 148)	SW846 8260B
Vinyl chloride	103	(57 - 130)	SW846 8260B
m-Xylene & p-Xylene	99	(75 - 132)	SW846 8260B
o-Xylene	116	(68 - 133)	SW846 8260B
Xylenes (total)	105	(75 - 132)	SW846 8260B

(Continued on next page)

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: H6D030205 **Work Order #...:** H2KWV1AC **Matrix.....:** SOLID
LCS Lot-Sample#: H6D040000-386

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	89	(42 - 138)
1,2-Dichloroethane-d4	88	(38 - 144)
Toluene-d8	92	(52 - 137)
Bromofluorobenzene	93	(54 - 151)

NOTE(S):

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

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: H6D030205 **Work Order #...:** H2KWV1AC **Matrix.....:** SOLID
LCS Lot-Sample#: H6D040000-386
Prep Date.....: 04/04/06 **Analysis Date..:** 04/04/06
Prep Batch #...: 6094386
Dilution Factor: 1

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
Acetone	10000	5380	ug/kg	54	SW846 8260B
Acrylonitrile	50000	51800	ug/kg	104	SW846 8260B
Benzene	**2500**	**2480**	**ug/kg**	**99**	**SW846 8260B**
Bromobenzene	2500	2300	ug/kg	92	SW846 8260B
Bromochloromethane	2500	2300	ug/kg	92	SW846 8260B
Bromodichloromethane	2500	2230	ug/kg	89	SW846 8260B
Bromoform	2500	2250	ug/kg	90	SW846 8260B
Bromomethane	2500	2120	ug/kg	85	SW846 8260B
2-Butanone	10000	4850	ug/kg	49	SW846 8260B
n-Butylbenzene	2500	3200	ug/kg	128	SW846 8260B
sec-Butylbenzene	2500	2600	ug/kg	104	SW846 8260B
tert-Butylbenzene	2500	2500	ug/kg	100	SW846 8260B
Carbon disulfide	2500	2420	ug/kg	97	SW846 8260B
Carbon tetrachloride	2500	2410	ug/kg	97	SW846 8260B
Chlorobenzene	**2500**	**2530**	**ug/kg**	**101**	**SW846 8260B**
Chlorodibromomethane	2500	2230	ug/kg	89	SW846 8260B
Chloroethane	2500	837	ug/kg	33	SW846 8260B
Chloroform	2500	2410	ug/kg	97	SW846 8260B
Chloromethane	2500	2450	ug/kg	98	SW846 8260B
2-Chlorotoluene	2500	2520	ug/kg	101	SW846 8260B
4-Chlorotoluene	2500	2490	ug/kg	100	SW846 8260B
1,2-Dibromo-3-chloro-propane	2500	2200	ug/kg	88	SW846 8260B
1,2-Dibromoethane	2500	2160	ug/kg	86	SW846 8260B
Dibromomethane	2500	2130	ug/kg	85	SW846 8260B
1,2-Dichlorobenzene	2500	2550	ug/kg	102	SW846 8260B
1,3-Dichlorobenzene	2500	2560	ug/kg	103	SW846 8260B
1,4-Dichlorobenzene	2500	2570	ug/kg	103	SW846 8260B
Dichlorodifluoromethane	2500	1670	ug/kg	67	SW846 8260B
1,1-Dichloroethane	2500	2280	ug/kg	91	SW846 8260B
1,2-Dichloroethane	2500	2340	ug/kg	94	SW846 8260B
cis-1,2-Dichloroethene	2500	2360	ug/kg	94	SW846 8260B
trans-1,2-Dichloroethene	2500	2370	ug/kg	95	SW846 8260B
1,1-Dichloroethene	**2500**	**2450**	**ug/kg**	**98**	**SW846 8260B**

(Continued on next page)

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: H6D030205 **Work Order #...:** H2KWV1AC **Matrix.....:** SOLID
LCS Lot-Sample#: H6D040000-386

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
1,2-Dichloropropane	2500	2320	ug/kg	93	SW846 8260B
1,3-Dichloropropane	2500	2330	ug/kg	93	SW846 8260B
2,2-Dichloropropane	2500	2120	ug/kg	85	SW846 8260B
cis-1,3-Dichloropropene	2500	2340	ug/kg	94	SW846 8260B
trans-1,3-Dichloropropene	2500	2330	ug/kg	93	SW846 8260B
1,1-Dichloropropene	2500	2340	ug/kg	94	SW846 8260B
Ethylbenzene	2500	2590	ug/kg	104	SW846 8260B
Hexachlorobutadiene	2500	2740	ug/kg	110	SW846 8260B
2-Hexanone	10000	5010	ug/kg	50	SW846 8260B
Isopropylbenzene	2500	2600	ug/kg	104	SW846 8260B
p-Isopropyltoluene	2500	2640	ug/kg	106	SW846 8260B
Methylene chloride	2500	2350	ug/kg	94	SW846 8260B
4-Methyl-2-pentanone	10000	5000	ug/kg	50	SW846 8260B
Naphthalene	2500	2310	ug/kg	92	SW846 8260B
n-Propylbenzene	2500	2580	ug/kg	103	SW846 8260B
Styrene	2500	2450	ug/kg	98	SW846 8260B
1,1,1,2-Tetrachloroethane	2500	2330	ug/kg	93	SW846 8260B
1,1,2,2-Tetrachloroethane	2500	2320	ug/kg	93	SW846 8260B
Tetrachloroethene	2500	2430	ug/kg	97	SW846 8260B
Toluene	**2500**	**2480**	**ug/kg**	**99**	**SW846 8260B**
1,2,3-Trichlorobenzene	2500	2650	ug/kg	106	SW846 8260B
1,2,4-Trichloro-benzene	2500	2570	ug/kg	103	SW846 8260B
1,1,1-Trichloroethane	2500	2270	ug/kg	91	SW846 8260B
1,1,2-Trichloroethane	2500	2200	ug/kg	88	SW846 8260B
Trichloroethene	**2500**	**2350**	**ug/kg**	**94**	**SW846 8260B**
Trichlorofluoromethane	2500	2890	ug/kg	116	SW846 8260B
1,2,3-Trichloropropane	2500	2180	ug/kg	87	SW846 8260B
1,2,4-Trimethylbenzene	2500	2530	ug/kg	101	SW846 8260B
1,3,5-Trimethylbenzene	2500	2560	ug/kg	102	SW846 8260B
Vinyl chloride	2500	2570	ug/kg	103	SW846 8260B
m-Xylene & p-Xylene	5000	4940	ug/kg	99	SW846 8260B
o-Xylene	2500	2900	ug/kg	116	SW846 8260B
Xylenes (total)	7500	7840	ug/kg	105	SW846 8260B

(Continued on next page)

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: H6D030205 **Work Order #...:** H2KWV1AC **Matrix.....:** SOLID
LCS Lot-Sample#: H6D040000-386

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	89	(42 - 138)
1,2-Dichloroethane-d4	88	(38 - 144)
Toluene-d8	92	(52 - 137)
Bromofluorobenzene	93	(54 - 151)

NOTE(S):

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

Bold print denotes control parameters

Data File: /chem/gcms/mk.i/K040406.b/h2kwv1ac.d
Report Date: 04-Apr-2006 18:16

STL Knoxville

Volatile Organics by GC/MS

Data file : /chem/gcms/mk.i/K040406.b/h2kwv1ac.d
Lab Smp Id: H2KWV1AC Client Smp ID: INTRA-LAB CHECK
Inj Date : 04-APR-2006 18:01
Operator : 063605 Inst ID: mk.i
Smp Info : H2KWV1AC,1,3,,LCS
Misc Info : K040406,MS8260NM,1-all.sub
Comment : Volatile Organics by GC/MS
Method : /var/chem/gcms/mk.i/K040406.b/MS8260NM.m
Meth Date : 04-Apr-2006 17:52 chemist Quant Type: ISTD
Cal Date : 03-FEB-2006 14:40 Cal File: fickb038.d
Als bottle: 1 QC Sample: METHOD SPIKE
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 1-all.sub
Target Version: 3.50
Processing Host: qmidhp01

Concentration Formula: Amt * DF * (Vt*5)/(Ws*Va) * CpndVariable

Vt	5000.00000	Sample Volume Purged
Ws	5.00000	Weight of sample
Va	100.00000	Volume of Methanol Aliquot

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/Kg)
* 1 Fluorobenzene	96	4.284	4.284	(1.000)	1044000	50.0000	
* 2 Chlorobenzene-d5	117	6.780	6.780	(1.000)	721935	50.0000	
* 3 1,4 Dichlorobenzene-d4	152	9.498	9.498	(1.000)	316313	50.0000	
$ 4 1,2-Dichloroethane-d4	65	4.014	4.017	(0.937)	220242	43.7783	2188.9
$ 5 Dibromofluoromethane	113	3.751	3.751	(0.876)	205487	44.2916	2214.6
$ 6 Toluene-d8	98	5.561	5.564	(0.820)	880486	45.8259	2291.3
$ 7 4-Bromofluorobenzene	95	7.910	7.913	(0.833)	356123	46.5052	2325.3
M 8 1,2-Dichloroethene (total)	96				469747	94.5784	4728.9
M 9 Xylene (total)	106				1346167	156.824	7841.2
10 Dichlorodifluoromethane	85	0.863	0.869	(0.201)	166151	33.3074	1665.4(R)
11 Chloromethane (spcc)	50	1.007	1.011	(0.235)	304086	49.0048	2450.2
12 Vinyl Chloride (ccc)	62	1.091	1.097	(0.255)	246235	51.3122	2565.6
14 Bromomethane	94	1.328	1.338	(0.310)	48748	42.3032	2115.2
15 Chloroethane	64	1.396	1.415	(0.326)	30231	16.7477	837.39(R)
17 Trichlorofluoromethane	101	1.579	1.607	(0.368)	221258	57.8659	2893.3
19 1,1-Dichloroethene (ccc)	96	1.993	2.005	(0.465)	190716	48.9554	2447.8
20 *Freon 113	151	1.986	2.005	(0.464)	148695	48.5709	2428.5
21 Acetone	43	2.057	2.041	(0.480)	119175	107.616	5380.8(R)

Data File: /chem/gcms/mk.i/K040406.b/h2kwv1ac.d
Report Date: 04-Apr-2006 18:16

						CONCENTRATIONS	
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/L)	FINAL (ug/Kg)
22 *Iodomethane	142	2.118	2.131	(0.494)	182222	39.5942	1979.7
23 Carbon Disulfide	76	2.175	2.188	(0.508)	750571	48.3193	2416.0
26 Methylene Chloride	84	2.374	2.384	(0.554)	233341	47.0190	2351.0
27 *Acrylonitrile	53	2.573	2.567	(0.601)	1440502	1035.50	51775
29 trans-1,2-Dichloroethene	96	2.596	2.602	(0.606)	219767	47.4053	2370.3
31 *Hexane	57	2.814	2.811	(0.657)	822983	105.017	5250.8
32 1,1-Dichloroethane (spcc)	63	2.923	2.926	(0.682)	415790	45.5787	2278.9
34 2,2-Dichloropropane	77	3.379	3.382	(0.789)	284099	42.4521	2122.6
35 cis 1,2-Dichloroethene	96	3.379	3.379	(0.789)	249979	47.1731	2358.6
36 2-Butanone	43	3.392	3.382	(0.792)	173668	97.0401	4852.0(R)
38 Bromochloromethane	128	3.565	3.568	(0.832)	90080	46.0001	2300.0
40 Chloroform (ccc)	83	3.626	3.629	(0.846)	408461	48.2550	2412.8
41 1,1,1-Trichloroethane	97	3.777	3.780	(0.882)	331909	45.4074	2270.4
42 Carbon Tetrachloride	117	3.911	3.918	(0.913)	274483	48.2873	2414.4
43 1,1-Dichloropropene	75	3.905	3.911	(0.912)	323934	46.8775	2343.9
44 Benzene	78	4.066	4.069	(0.949)	1006238	49.5811	2479.0
45 1,2-Dichloroethane	62	4.075	4.075	(0.951)	278978	46.8933	2344.7
46 Trichloroethene	130	4.579	4.579	(1.069)	228973	46.9738	2348.7
47 1,2-Dichloropropane (ccc)	63	4.749	4.749	(1.109)	235625	46.3579	2317.9
48 Dibromomethane	93	4.842	4.845	(1.130)	107806	42.5530	2127.6
50 Bromodichloromethane	83	4.970	4.970	(1.160)	276356	44.5044	2225.2
52 cis-1,3-Dichloropropene	75	5.333	5.336	(1.245)	369581	46.8575	2342.9
53 4-Methyl-2-pentanone	43	5.461	5.458	(0.805)	392990	100.014	5000.7(R)
54 Toluene (ccc)	91	5.615	5.615	(0.828)	1061353	49.5060	2475.3
55 trans-1,3-Dichloropropene	75	5.792	5.792	(0.854)	307857	46.5840	2329.2
57 1,1,2-Trichloroethane	97	5.943	5.946	(0.876)	171485	44.0410	2202.0
58 Tetrachloroethene	164	6.081	6.081	(0.897)	175997	48.5852	2429.2
59 1,3-Dichloropropane	76	6.084	6.084	(0.897)	312765	46.5818	2329.1
60 2-Hexanone	43	6.158	6.155	(0.908)	282592	100.134	5006.7(R)
61 Chlorodibromomethane	129	6.280	6.276	(0.926)	184067	44.5882	2229.4
62 1,2-Dibromoethane	107	6.373	6.376	(0.940)	163701	43.2411	2162.0
63 Chlorobenzene (spcc)	112	6.803	6.803	(1.003)	656901	50.6046	2530.2
64 1,1,1,2-Tetrachloroethane	131	6.873	6.873	(1.014)	205569	46.6481	2332.4
65 Ethylbenzene (ccc)	106	6.902	6.902	(1.018)	372909	51.8097	2590.5
66 m&p-Xylene	106	7.005	7.005	(1.033)	904499	98.7928	4939.6
67 o-Xylene	106	7.367	7.367	(1.087)	441668	58.0315	2901.6
68 Styrene	104	7.380	7.380	(1.089)	694329	49.0635	2453.2
69 Bromoform (spcc)	173	7.550	7.554	(1.114)	100927	44.9931	2249.6
70 Isopropylbenzene	105	7.749	7.749	(1.143)	1159108	51.9599	2598.0
72 Bromobenzene	156	8.086	8.083	(0.851)	221316	45.9863	2299.3
73 1,1,2,2-Tetrachloroethane(sp)	83	8.080	8.080	(0.851)	214185	46.3339	2316.7
74 1,2,3-Trichloropropane	110	8.125	8.128	(0.855)	64801	43.6713	2183.6
76 n-Propylbenzene	91	8.234	8.231	(0.867)	1412838	51.5369	2576.8
77 2-Chlorotoluene	91	8.330	8.330	(0.877)	831934	50.4168	2520.8
78 1,3,5-Trimethylbenzene	105	8.468	8.468	(0.892)	955419	51.1312	2556.6
79 4-Chlorotoluene	91	8.471	8.471	(0.892)	934781	49.8536	2492.7
80 tert-Butylbenzene	119	8.927	8.930	(0.940)	822681	50.1001	2505.0

Data File: /chem/gcms/mk.i/K040406.b/h2kwv1ac.d
Report Date: 04-Apr-2006 18:16

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/Kg)
81 1,2,4-Trimethylbenzene	105	9.007	9.004	(0.948)	981993	50.5596	2528.0
82 sec-Butylbenzene	105	9.270	9.270	(0.976)	1216060	52.0853	2604.3
83 1,3-Dichlorobenzene	146	9.405	9.405	(0.990)	476185	51.2681	2563.4
84 p-Isopropyltoluene	119	9.492	9.492	(0.999)	1035347	52.8272	2641.4
85 1,4-Dichlorobenzene	146	9.530	9.530	(1.003)	469893	51.4238	2571.2
86 1,2-Dichlorobenzene	146	10.018	10.018	(1.055)	434379	50.9556	2547.8
87 n-Butylbenzene	91	10.044	10.044	(1.057)	1032121	63.9338	3196.7
88 1,2-Dibromo-3-chloropropane	157	10.945	10.945	(1.152)	35687	43.9411	2197.0
89 1,2,4-Trichlorobenzene	180	11.825	11.825	(1.245)	318983	51.3594	2568.0
90 Hexachlorobutadiene	225	12.017	12.014	(1.265)	163585	54.7676	2738.4
91 Napthalene	128	12.053	12.053	(1.269)	725096	46.1313	2306.6
92 1,2,3-Trichlorobenzene	180	12.287	12.287	(1.294)	281808	53.0632	2653.2

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

Data File: /chem/gcms/mk.i/K040406.b/h2kwv1ac.d
Report Date: 04-Apr-2006 18:16

STL Knoxville

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

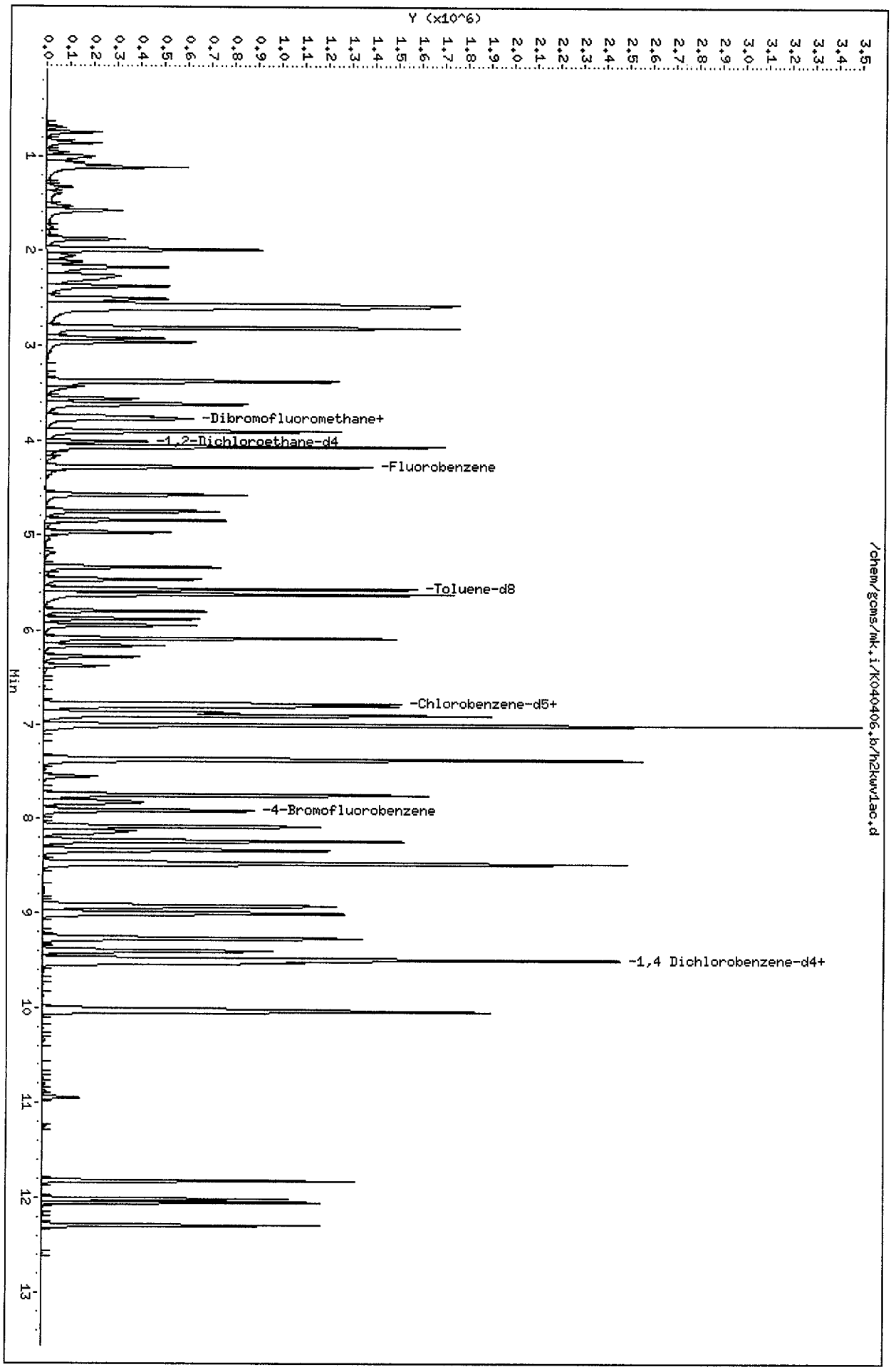
Instrument ID: mk.i
Lab File ID: h2kwv1ac.d
Lab Smp Id: H2KWV1AC
Analysis Type: VOA
Quant Type: ISTD
Operator: 063605
Method File: /var/chem/gcms/mk.i/K040406.b/MS8260NM.m
Misc Info: K040406,MS8260NM,1-all.sub

Calibration Date: 04-APR-2006
Calibration Time: 17:37
Client Smp ID: INTRA-LAB CHECK
Level: MED
Sample Type: SOIL

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	1075684	537842	2151368	1044000	-2.95
2 Chlorobenzene-d5	737847	368924	1475694	721935	-2.16
3 1,4 Dichlorobenze	307012	153506	614024	316313	3.03

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	4.28	3.78	4.78	4.28	0.00
2 Chlorobenzene-d5	6.78	6.28	7.28	6.78	0.00
3 1,4 Dichlorobenze	9.50	9.00	10.00	9.50	0.00

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


Data File: /chem/gcms/mk.i/K040406.b/h2kwv1ac.d
Date : 04-APR-2006 18:01
Client ID: INTRA-LAB CHECK
Sample Info: H2KWV1AC,1,3,,LCS
Instrument: mk.i
Operator: 063605
Column phase: J&W-624
Column diameter: 0.18
Y (x10^6)
/chem/gcms/mk.i/K040406.b/h2kwv1ac.d
-Dibromofluoromethane+
-1,2-Dichloroethane-d4
-Fluorobenzene
-Toluene-d8
-Chlorobenzene-d5+
-4-Bromofluorobenzene
-1,4 Dichlorobenzene-d4+
Min

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: H6D030205 **Work Order #...:** H2HN31AC-MS **Matrix.....:** SOLID
MS Lot-Sample #: H6D030205-001 H2HN31AD-MSD
Date Sampled...: 03/28/06 **Date Received..:** 04/02/06
Prep Date.....: 04/04/06 **Analysis Date..:** 04/04/06
Prep Batch #...: 6094386
Dilution Factor: 5 **% Moisture.....:** 100

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Acetone	60	(30 - 168)			SW846 8260B
	39	(30 - 168)	25	(0-38)	SW846 8260B
Acrylonitrile	31 a	(50 - 130)			SW846 8260B
	34 a	(50 - 130)	10	(0-30)	SW846 8260B
Benzene	**0.0 a**	**(80 - 120)**			**SW846 8260B**
	0.0 a	**(80 - 120)**	**0.0**	**(0-20)**	**SW846 8260B**
Bromobenzene	0.0	(79 - 129)			SW846 8260B
	0.0	(79 - 129)	0.0	(0-35)	SW846 8260B
Bromochloromethane	15 a	(80 - 120)			SW846 8260B
	15 a	(80 - 120)	3.6	(0-21)	SW846 8260B
Bromodichloromethane	8.4 a	(65 - 129)			SW846 8260B
	8.9 a	(65 - 129)	6.1	(0-20)	SW846 8260B
Bromoform	0.0	(49 - 130)			SW846 8260B
	0.0	(49 - 130)	0.0	(0-29)	SW846 8260B
Bromomethane	4.7 a	(30 - 120)			SW846 8260B
	14 a	(30 - 120)	24	(0-44)	SW846 8260B
2-Butanone	59	(31 - 143)			SW846 8260B
	60	(31 - 143)	0.48	(0-39)	SW846 8260B
n-Butylbenzene	0.0	(68 - 155)			SW846 8260B
	0.0	(68 - 155)	0.0	(0-28)	SW846 8260B
sec-Butylbenzene	0.0	(77 - 148)			SW846 8260B
	0.0	(77 - 148)	0.0	(0-29)	SW846 8260B
tert-Butylbenzene	0.0	(80 - 138)			SW846 8260B
	0.0	(80 - 138)	0.0	(0-30)	SW846 8260B
Carbon disulfide	5.4 a	(41 - 141)			SW846 8260B
	6.1 a	(41 - 141)	13	(0-29)	SW846 8260B
Carbon tetrachloride	7.8 a	(41 - 151)			SW846 8260B
	9.5 a	(41 - 151)	19	(0-20)	SW846 8260B
Chlorobenzene	**0.0**	**(73 - 127)**			**SW846 8260B**
	0.0	**(73 - 127)**	**0.0**	**(0-22)**	**SW846 8260B**
Chlorodibromomethane	0.0	(64 - 137)			SW846 8260B
	0.0	(64 - 137)	0.0	(0-23)	SW846 8260B
Chloroethane	28 a	(30 - 120)			SW846 8260B
	40	(30 - 120)	35	(0-41)	SW846 8260B
Chloroform	6.5 a	(77 - 125)			SW846 8260B
	13 a	(77 - 125)	7.0	(0-21)	SW846 8260B
Chloromethane	35	(30 - 125)			SW846 8260B
	42	(30 - 125)	17	(0-41)	SW846 8260B
2-Chlorotoluene	0.0	(77 - 140)			SW846 8260B
	0.0	(77 - 140)	0.0	(0-32)	SW846 8260B

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MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: H6D030205 **Work Order #...:** H2HN31AC-MS **Matrix.....:** SOLID
MS Lot-Sample #: H6D030205-001 H2HN31AD-MSD
Date Sampled...: 03/28/06 **Date Received..:** 04/02/06
Prep Date.....: 04/04/06 **Analysis Date..:** 04/04/06
Prep Batch #...: 6094386
Dilution Factor: 5 **% Moisture.....:** 100

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Acetone	60	(30 - 168)			SW846 8260B
	39	(30 - 168)	25	(0-38)	SW846 8260B
Acrylonitrile	31 a	(50 - 130)			SW846 8260B
	34 a	(50 - 130)	10	(0-30)	SW846 8260B
Benzene	**0.0 a**	**(80 - 120)**			**SW846 8260B**
	0.0 a	**(80 - 120)**	**0.0**	**(0-20)**	**SW846 8260B**
Bromobenzene	0.0	(79 - 129)			SW846 8260B
	0.0	(79 - 129)	0.0	(0-35)	SW846 8260B
Bromochloromethane	15 a	(80 - 120)			SW846 8260B
	15 a	(80 - 120)	3.6	(0-21)	SW846 8260B
Bromodichloromethane	8.4 a	(65 - 129)			SW846 8260B
	8.9 a	(65 - 129)	6.1	(0-20)	SW846 8260B
Bromoform	0.0	(49 - 130)			SW846 8260B
	0.0	(49 - 130)	0.0	(0-29)	SW846 8260B
Bromomethane	4.7 a	(30 - 120)			SW846 8260B
	14 a	(30 - 120)	24	(0-44)	SW846 8260B
2-Butanone	59	(31 - 143)			SW846 8260B
	60	(31 - 143)	0.48	(0-39)	SW846 8260B
n-Butylbenzene	0.0	(68 - 155)			SW846 8260B
	0.0	(68 - 155)	0.0	(0-28)	SW846 8260B
sec-Butylbenzene	0.0	(77 - 148)			SW846 8260B
	0.0	(77 - 148)	0.0	(0-29)	SW846 8260B
tert-Butylbenzene	0.0	(80 - 138)			SW846 8260B
	0.0	(80 - 138)	0.0	(0-30)	SW846 8260B
Carbon disulfide	5.4 a	(41 - 141)			SW846 8260B
	6.1 a	(41 - 141)	13	(0-29)	SW846 8260B
Carbon tetrachloride	7.8 a	(41 - 151)			SW846 8260B
	9.5 a	(41 - 151)	19	(0-20)	SW846 8260B
Chlorobenzene	**0.0**	**(73 - 127)**			**SW846 8260B**
	0.0	**(73 - 127)**	**0.0**	**(0-22)**	**SW846 8260B**
Chlorodibromomethane	0.0	(64 - 137)			SW846 8260B
	0.0	(64 - 137)	0.0	(0-23)	SW846 8260B
Chloroethane	28 a	(30 - 120)			SW846 8260B
	40	(30 - 120)	35	(0-41)	SW846 8260B
Chloroform	6.5 a	(77 - 125)			SW846 8260B
	13 a	(77 - 125)	7.0	(0-21)	SW846 8260B
Chloromethane	35	(30 - 125)			SW846 8260B
	42	(30 - 125)	17	(0-41)	SW846 8260B
2-Chlorotoluene	0.0	(77 - 140)			SW846 8260B
	0.0	(77 - 140)	0.0	(0-32)	SW846 8260B

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MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: H6D030205 **Work Order #...:** H2HN31AC-MS **Matrix.....:** SOLID
MS Lot-Sample #: H6D030205-001 H2HN31AD-MSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
4-Chlorotoluene	0.0	(80 - 141)			SW846 8260B
	0.0	(80 - 141)	0.0	(0-31)	SW846 8260B
1,2-Dibromo-3-chloro-propane	5.3 a	(64 - 124)			SW846 8260B
	0.0	(64 - 124)	200	(0-48)	SW846 8260B
1,2-Dibromoethane	0.0	(75 - 134)			SW846 8260B
	0.0	(75 - 134)	0.0	(0-23)	SW846 8260B
Dibromomethane	8.5 a	(75 - 124)			SW846 8260B
	11 a,p	(75 - 124)	28	(0-20)	SW846 8260B
1,2-Dichlorobenzene	0.0	(78 - 127)			SW846 8260B
	0.0	(78 - 127)	0.0	(0-31)	SW846 8260B
1,3-Dichlorobenzene	0.0	(80 - 125)			SW846 8260B
	0.0	(80 - 125)	0.0	(0-31)	SW846 8260B
1,4-Dichlorobenzene	0.0	(80 - 125)			SW846 8260B
	0.0	(80 - 125)	0.0	(0-30)	SW846 8260B
Dichlorodifluoromethane	23 a	(40 - 122)			SW846 8260B
	29 a	(40 - 122)	22	(0-50)	SW846 8260B
1,1-Dichloroethane	15 a	(68 - 129)			SW846 8260B
	17 a	(68 - 129)	11	(0-21)	SW846 8260B
1,2-Dichloroethane	32 a	(77 - 120)			SW846 8260B
	26 a	(77 - 120)	11	(0-21)	SW846 8260B
cis-1,2-Dichloroethene	7.7 a	(75 - 123)			SW846 8260B
	13 a,p	(75 - 123)	21	(0-20)	SW846 8260B
trans-1,2-Dichloroethene	0.0	(53 - 135)			SW846 8260B
	5.1 a,p	(53 - 135)	200	(0-26)	SW846 8260B
1,1-Dichloroethene	**4.0 a**	**(56 - 134)**			**SW846 8260B**
	7.3 a	**(56 - 134)**	**13**	**(0-23)**	**SW846 8260B**
1,2-Dichloropropane	8.6 a	(68 - 120)			SW846 8260B
	64 a,p	(68 - 120)	152	(0-20)	SW846 8260B
1,3-Dichloropropane	6.6 a	(80 - 130)			SW846 8260B
	7.8 a	(80 - 130)	17	(0-44)	SW846 8260B
2,2-Dichloropropane	0.0	(51 - 149)			SW846 8260B
	0.0	(51 - 149)	0.0	(0-20)	SW846 8260B
cis-1,3-Dichloropropene	0.0	(73 - 138)			SW846 8260B
	0.0	(73 - 138)	0.0	(0-20)	SW846 8260B
trans-1,3-Dichloropropene	0.0	(63 - 152)			SW846 8260B
	5.7 a,p	(63 - 152)	200	(0-26)	SW846 8260B
1,1-Dichloropropene	0.0	(66 - 130)			SW846 8260B
	0.0	(66 - 130)	0.0	(0-20)	SW846 8260B
Ethylbenzene	8.4 a	(76 - 128)			SW846 8260B
	0.0	(76 - 128)	200	(0-20)	SW846 8260B

(Continued on next page)

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: H6D030205 **Work Order #...:** H2HN31AC-MS **Matrix.....:** SOLID
MS Lot-Sample #: H6D030205-001 H2HN31AD-MSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Hexachlorobutadiene	0.0	(59 - 151)			SW846 8260B
	0.0	(59 - 151)	0.0	(0-37)	SW846 8260B
2-Hexanone	0.0	(34 - 128)			SW846 8260B
	0.0	(34 - 128)	0.0	(0-39)	SW846 8260B
Isopropylbenzene	0.0	(74 - 130)			SW846 8260B
	0.0	(74 - 130)	0.0	(0-22)	SW846 8260B
p-Isopropyltoluene	0.0	(79 - 137)			SW846 8260B
	0.0	(79 - 137)	0.0	(0-28)	SW846 8260B
Methylene chloride	26 a	(30 - 161)			SW846 8260B
	49 p	(30 - 161)	44	(0-28)	SW846 8260B
4-Methyl-2-pentanone	7.8 a	(34 - 127)			SW846 8260B
	9.0 a	(34 - 127)	15	(0-37)	SW846 8260B
Naphthalene	8.5 a	(63 - 149)			SW846 8260B
	0.0	(63 - 149)	200	(0-36)	SW846 8260B
n-Propylbenzene	0.0	(77 - 151)			SW846 8260B
	0.0	(77 - 151)	0.0	(0-30)	SW846 8260B
Styrene	0.0	(69 - 133)			SW846 8260B
	0.0	(69 - 133)	0.0	(0-23)	SW846 8260B
1,1,1,2-Tetrachloroethane	0.0	(70 - 134)			SW846 8260B
	0.0	(70 - 134)	0.0	(0-24)	SW846 8260B
1,1,2,2-Tetrachloroethane	0.0	(66 - 130)			SW846 8260B
	0.0	(66 - 130)	0.0	(0-40)	SW846 8260B
Tetrachloroethene	0.0 a	(75 - 135)			SW846 8260B
	0.0 a	(75 - 135)	0.0	(0-23)	SW846 8260B
Toluene	**9.9 a**	**(80 - 127)**			**SW846 8260B**
	1.3 a,p	**(80 - 127)**	**47**	**(0-24)**	**SW846 8260B**
1,2,3-Trichlorobenzene	0.0	(75 - 133)			SW846 8260B
	0.0	(75 - 133)	0.0	(0-33)	SW846 8260B
1,2,4-Trichloro-benzene	0.0	(74 - 138)			SW846 8260B
	0.0	(74 - 138)	0.0	(0-32)	SW846 8260B
1,1,1-Trichloroethane	18 a	(55 - 135)			SW846 8260B
	6.5 a	(55 - 135)	4.9	(0-20)	SW846 8260B
1,1,2-Trichloroethane	15 a	(77 - 124)			SW846 8260B
	10 a,p	(77 - 124)	37	(0-23)	SW846 8260B
Trichloroethene	**0.0 a**	**(73 - 122)**			**SW846 8260B**
	0.0 a	**(73 - 122)**	**0.0**	**(0-20)**	**SW846 8260B**
Trichlorofluoromethane	25 a	(30 - 120)			SW846 8260B
	33	(30 - 120)	26	(0-40)	SW846 8260B
1,2,3-Trichloropropane	0.0	(56 - 143)			SW846 8260B
	0.0	(56 - 143)	0.0	(0-48)	SW846 8260B

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MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: H6D030205 **Work Order #...:** H2HN31AC-MS **Matrix.....:** SOLID
MS Lot-Sample #: H6D030205-001 H2HN31AD-MSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
1,2,4-Trimethylbenzene	0.0	(79 - 143)			SW846 8260B
	0.0	(79 - 143)	0.0	(0-27)	SW846 8260B
1,3,5-Trimethylbenzene	0.0	(80 - 148)			SW846 8260B
	0.0	(80 - 148)	0.0	(0-30)	SW846 8260B
Vinyl chloride	21 a	(57 - 130)			SW846 8260B
	27 a	(57 - 130)	27	(0-35)	SW846 8260B
m-Xylene & p-Xylene	0.0	(75 - 132)			SW846 8260B
	0.0	(75 - 132)	0.0	(0-20)	SW846 8260B
o-Xylene	0.0	(68 - 133)			SW846 8260B
	0.0	(68 - 133)	0.0	(0-20)	SW846 8260B
Xylenes (total)	0.0	(75 - 132)			SW846 8260B
	0.0	(75 - 132)	0.0	(0-20)	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	1.5 *	(42 - 138)
	1.7 *	(42 - 138)
1,2-Dichloroethane-d4	1.7 *	(38 - 144)
	1.7 *	(38 - 144)
Toluene-d8	0.070 *	(52 - 137)
	0.13 *	(52 - 137)
Bromofluorobenzene	0.29 *	(54 - 151)
	0.19 *	(54 - 151)

NOTE(S):

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

Bold print denotes control parameters

* Surrogate recovery is outside stated control limits.

Results and reporting limits have been adjusted for dry weight.

a Spiked analyte recovery is outside stated control limits.

p Relative percent difference (RPD) is outside stated control limits.

MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: H6D030205 **Work Order #...:** H2HN31AC-MS **Matrix.....:** SOLID
MS Lot-Sample #: H6D030205-001 H2HN31AD-MSD
Date Sampled...: 03/28/06 **Date Received..:** 04/02/06
Prep Date.....: 04/04/06 **Analysis Date..:** 04/04/06
Prep Batch #...: 6094386
Dilution Factor: 5 **% Moisture.....:** 100

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
Acetone	3500	9960	9480	ug/kg	60		SW846 8260B
	3500	9980	7410	ug/kg	39	25	SW846 8260B
Acrylonitrile	ND	49800	15500	ug/kg	31 a		SW846 8260B
	ND	49900	17200	ug/kg	34 a	10	SW846 8260B
Benzene	**3800**	**2490**	**1900**	**ug/kg**	**0.0 a**		**SW846 8260B**
	3800	**2500**	**1600**	**ug/kg**	**0.0 a**	**0.0**	**SW846 8260B**
Bromobenzene	ND	2490		ug/kg	0.0		SW846 8260B
	ND	2500		ug/kg	0.0	0.0	SW846 8260B
Bromochloromethane	ND	2490	368	ug/kg	15 a		SW846 8260B
	ND	2500	382	ug/kg	15 a	3.6	SW846 8260B
Bromodichloromethane	ND	2490	209	ug/kg	8.4 a		SW846 8260B
	ND	2500	222	ug/kg	8.9 a	6.1	SW846 8260B
Bromoform	ND	2490		ug/kg	0.0		SW846 8260B
	ND	2500		ug/kg	0.0	0.0	SW846 8260B
Bromomethane	740	2490	856	ug/kg	4.7 a		SW846 8260B
	740	2500	1090	ug/kg	14 a	24	SW846 8260B
2-Butanone	14000	9960	19700	ug/kg	59		SW846 8260B
	14000	9980	19800	ug/kg	60	0.48	SW846 8260B
n-Butylbenzene	ND	2490		ug/kg	0.0		SW846 8260B
	ND	2500		ug/kg	0.0	0.0	SW846 8260B
sec-Butylbenzene	ND	2490		ug/kg	0.0		SW846 8260B
	ND	2500		ug/kg	0.0	0.0	SW846 8260B
tert-Butylbenzene	ND	2490		ug/kg	0.0		SW846 8260B
	ND	2500		ug/kg	0.0	0.0	SW846 8260B
Carbon disulfide	ND	2490		ug/kg	5.4 a		SW846 8260B
	ND	2500	153	ug/kg	6.1 a	13	SW846 8260B
Carbon tetrachloride	ND	2490	194	ug/kg	7.8 a		SW846 8260B
	ND	2500	236	ug/kg	9.5 a	19	SW846 8260B
Chlorobenzene	**ND**	**2490**		**ug/kg**	**0.0**		**SW846 8260B**
	ND	**2500**		**ug/kg**	**0.0**	**0.0**	**SW846 8260B**
Chlorodibromomethane	ND	2490		ug/kg	0.0		SW846 8260B
	ND	2500		ug/kg	0.0	0.0	SW846 8260B
Chloroethane	ND	2490	690	ug/kg	28 a		SW846 8260B
	ND	2500	986	ug/kg	40	35	SW846 8260B
Chloroform	1900	2490	2110	ug/kg	6.5 a		SW846 8260B
	1900	2500	2260	ug/kg	13 a	7.0	SW846 8260B
Chloromethane	ND	2490		ug/kg	35		SW846 8260B
	ND	2500		ug/kg	42	17	SW846 8260B
2-Chlorotoluene	ND	2490		ug/kg	0.0		SW846 8260B
	ND	2500		ug/kg	0.0	0.0	SW846 8260B

(Continued on next page)

MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: H6D030205 **Work Order #...:** H2HN31AC-MS **Matrix.....:** SOLID
MS Lot-Sample #: H6D030205-001 H2HN31AD-MSD

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
4-Chlorotoluene	ND	2490		ug/kg	0.0		SW846 8260B
	ND	2500		ug/kg	0.0	0.0	SW846 8260B
1,2-Dibromo-3-chloro-propane	ND	2490		ug/kg	5.3 a		SW846 8260B
	ND	2500		ug/kg	0.0	200	SW846 8260B
1,2-Dibromoethane	ND	2490		ug/kg	0.0		SW846 8260B
	ND	2500		ug/kg	0.0	0.0	SW846 8260B
Dibromomethane	ND	2490	213	ug/kg	8.5 a		SW846 8260B
	ND	2500	283	ug/kg	11 a,p	28	SW846 8260B
1,2-Dichlorobenzene	ND	2490		ug/kg	0.0		SW846 8260B
	ND	2500		ug/kg	0.0	0.0	SW846 8260B
1,3-Dichlorobenzene	ND	2490		ug/kg	0.0		SW846 8260B
	ND	2500		ug/kg	0.0	0.0	SW846 8260B
1,4-Dichlorobenzene	ND	2490		ug/kg	0.0		SW846 8260B
	ND	2500		ug/kg	0.0	0.0	SW846 8260B
Dichlorodifluoromethane	ND	2490	582	ug/kg	23 a		SW846 8260B
	ND	2500	724	ug/kg	29 a	22	SW846 8260B
1,1-Dichloroethane	150	2490	513	ug/kg	15 a		SW846 8260B
	150	2500	571	ug/kg	17 a	11	SW846 8260B
1,2-Dichloroethane	600	2490	1400	ug/kg	32 a		SW846 8260B
	600	2500	1260	ug/kg	26 a	11	SW846 8260B
cis-1,2-Dichloroethene	320	2490	508	ug/kg	7.7 a		SW846 8260B
	320	2500	630	ug/kg	13 a,p	21	SW846 8260B
trans-1,2-Dichloroethene	ND	2490		ug/kg	0.0		SW846 8260B
	ND	2500		ug/kg	5.1	200	SW846 8260B
	Qualifiers: a,p						
1,1-Dichloroethene	**500**	**2490**	**605**	**ug/kg**	**4.0 a**		**SW846 8260B**
	500	**2500**	**687**	**ug/kg**	**7.3 a**	**13**	**SW846 8260B**
1,2-Dichloropropane	ND	2490	215	ug/kg	8.6 a		SW846 8260B
	ND	2500	1590	ug/kg	64 a,p	152	SW846 8260B
1,3-Dichloropropane	ND	2490		ug/kg	6.6 a		SW846 8260B
	ND	2500		ug/kg	7.8 a	17	SW846 8260B
2,2-Dichloropropane	ND	2490		ug/kg	0.0		SW846 8260B
	ND	2500		ug/kg	0.0	0.0	SW846 8260B
cis-1,3-Dichloropropene	ND	2490		ug/kg	0.0		SW846 8260B
	ND	2500		ug/kg	0.0	0.0	SW846 8260B
trans-1,3-Dichloropropene	ND	2490		ug/kg	0.0		SW846 8260B
	ND	2500		ug/kg	5.7	200	SW846 8260B
	Qualifiers: a,p						
1,1-Dichloropropene	ND	2490		ug/kg	0.0		SW846 8260B
	ND	2500		ug/kg	0.0	0.0	SW846 8260B

(Continued on next page)

MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: H6D030205 **Work Order #...:** H2HN31AC-MS **Matrix.....:** SOLID
MS Lot-Sample #: H6D030205-001 H2HN31AD-MSD

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
Ethylbenzene	ND	2490		ug/kg	8.4 a		SW846 8260B
	ND	2500		ug/kg	0.0	200	SW846 8260B
Hexachlorobutadiene	ND	2490		ug/kg	0.0		SW846 8260B
	ND	2500		ug/kg	0.0	0.0	SW846 8260B
2-Hexanone	ND	9960		ug/kg	0.0		SW846 8260B
	ND	9980		ug/kg	0.0	0.0	SW846 8260B
Isopropylbenzene	ND	2490		ug/kg	0.0		SW846 8260B
	ND	2500		ug/kg	0.0	0.0	SW846 8260B
p-Isopropyltoluene	ND	2490		ug/kg	0.0		SW846 8260B
	ND	2500		ug/kg	0.0	0.0	SW846 8260B
Methylene chloride	ND	2490	1010	ug/kg	26 a		SW846 8260B
	ND	2500	1580	ug/kg	49 p	44	SW846 8260B
4-Methyl-2-pentanone	ND	9960		ug/kg	7.8 a		SW846 8260B
	ND	9980	902	ug/kg	9.0 a	15	SW846 8260B
Naphthalene	ND	2490		ug/kg	8.5 a		SW846 8260B
	ND	2500		ug/kg	0.0	200	SW846 8260B
n-Propylbenzene	ND	2490		ug/kg	0.0		SW846 8260B
	ND	2500		ug/kg	0.0	0.0	SW846 8260B
Styrene	ND	2490		ug/kg	0.0		SW846 8260B
	ND	2500		ug/kg	0.0	0.0	SW846 8260B
1,1,1,2-Tetrachloroethane	ND	2490		ug/kg	0.0		SW846 8260B
	ND	2500		ug/kg	0.0	0.0	SW846 8260B
1,1,2,2-Tetrachloroethane	ND	2490		ug/kg	0.0		SW846 8260B
	ND	2500		ug/kg	0.0	0.0	SW846 8260B
Tetrachloroethene	1600	2490	982	ug/kg	0.0 a		SW846 8260B
	1600	2500	511	ug/kg	0.0 a	0.0	SW846 8260B
Toluene	**320**	**2490**	**567**	**ug/kg**	**9.9 a**		**SW846 8260B**
	320	**2500**	**352**	**ug/kg**	**1.3**	**47**	**SW846 8260B**
	Qualifiers: a,p						
1,2,3-Trichlorobenzene	ND	2490		ug/kg	0.0		SW846 8260B
	ND	2500		ug/kg	0.0	0.0	SW846 8260B
1,2,4-Trichloro-benzene	ND	2490		ug/kg	0.0		SW846 8260B
	ND	2500		ug/kg	0.0	0.0	SW846 8260B
1,1,1-Trichloroethane	5600	2490	6080	ug/kg	18 a		SW846 8260B
	5600	2500	5790	ug/kg	6.5 a	4.9	SW846 8260B
1,1,2-Trichloroethane	ND	2490	369	ug/kg	15 a		SW846 8260B
	ND	2500	254	ug/kg	10 a,p	37	SW846 8260B
Trichloroethene	**43000**	**2490**	**21400**	**ug/kg**	**0.0 a**		**SW846 8260B**
	43000	**2500**	**22200**	**ug/kg**	**0.0 a**	**0.0**	**SW846 8260B**
Trichlorofluoromethane	ND	2490	624	ug/kg	25 a		SW846 8260B
	ND	2500	812	ug/kg	33	26	SW846 8260B

(Continued on next page)

MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: H6D030205 **Work Order #...:** H2HN31AC-MS **Matrix.....:** SOLID
MS Lot-Sample #: H6D030205-001 H2HN31AD-MSD

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
1,2,3-Trichloropropane	ND	2490		ug/kg	0.0		SW846 8260B
	ND	2500		ug/kg	0.0	0.0	SW846 8260B
1,2,4-Trimethylbenzene	ND	2490		ug/kg	0.0		SW846 8260B
	ND	2500		ug/kg	0.0	0.0	SW846 8260B
1,3,5-Trimethylbenzene	ND	2490		ug/kg	0.0		SW846 8260B
	ND	2500		ug/kg	0.0	0.0	SW846 8260B
Vinyl chloride	ND	2490	513	ug/kg	21 a		SW846 8260B
	ND	2500	672	ug/kg	27 a	27	SW846 8260B
m-Xylene & p-Xylene	ND	4980		ug/kg	0.0		SW846 8260B
	ND	4990		ug/kg	0.0	0.0	SW846 8260B
o-Xylene	ND	2490		ug/kg	0.0		SW846 8260B
	ND	2500		ug/kg	0.0	0.0	SW846 8260B
Xylenes (total)	ND	7470		ug/kg	0.0		SW846 8260B
	ND	7480		ug/kg	0.0	0.0	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	1.5 *	(42 - 138)
	1.7 *	(42 - 138)
1,2-Dichloroethane-d4	1.7 *	(38 - 144)
	1.7 *	(38 - 144)
Toluene-d8	0.070 *	(52 - 137)
	0.13 *	(52 - 137)
Bromofluorobenzene	0.29 *	(54 - 151)
	0.19 *	(54 - 151)

NOTE(S):

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

Bold print denotes control parameters

* Surrogate recovery is outside stated control limits.

Results and reporting limits have been adjusted for dry weight.

a Spiked analyte recovery is outside stated control limits.

p Relative percent difference (RPD) is outside stated control limits.

Data File: /var/chem/gcms/mk.i/K040406.b/h2hn31ac.d
Report Date: 05-Apr-2006 12:52

STL Knoxville

Volatile Organics by GC/MS

Data file : /var/chem/gcms/mk.i/K040406.b/h2hn31ac.d
Lab Smp Id: H2HN31AC Client Smp ID: G-2889-R1-SPENT ACT
Inj Date : 04-APR-2006 20:48
Operator : 063605 Inst ID: mk.i
Smp Info : H2HN31AC,5,3,,MS
Misc Info : K040406,MS8260,focus.sub
Comment : Volatile Organics by GC/MS
Method : /var/chem/gcms/mk.i/K040406.b/MS8260NM.m
Meth Date : 04-Apr-2006 19:31 tillerm Quant Type: ISTD
Cal Date : 03-FEB-2006 14:40 Cal File: fickb038.d
Als bottle: 6 QC Sample: MS
Dil Factor: 5.00000
Integrator: HP RTE Compound Sublist: focus.sub
Target Version: 3.50
Processing Host: qmidhp01

Concentration Formula: Amt * DF * (Vt*5)/(Ws*Va) * CpndVariable

Vt	5000.00000	Sample Volume Purged
Ws	5.02000	Weight of sample
Va	100.00000	Volume of Methanol Aliquot

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/Kg)
*	1 Fluorobenzene	96	4.287	4.284	(1.000)	997218	50.0000	
*	2 Chlorobenzene-d5	117	6.780	6.780	(1.000)	664895	50.0000	
*	3 1,4 Dichlorobenzene-d4	152	9.495	9.498	(1.000)	261151	50.0000	
$	4 1,2-Dichloroethane-d4	65	4.017	4.017	(0.937)	3968	0.82573	41.122(R)
$	5 Dibromofluoromethane	113	3.751	3.751	(0.875)	3252	0.73390	36.549(R)
$	6 Toluene-d8	98	5.567	5.564	(0.821)	619	0.03500	1.7432(R)
$	7 4-Bromofluorobenzene	95	7.906	7.913	(0.833)	902	0.14271	7.1071(R)
M	8 1,2-Dichloroethene (total)	96				10320	2.03900	507.72(R)
	10 Dichlorodifluoromethane	85	0.873	0.869	(0.204)	11135	2.33704	581.93(R)
	11 Chloromethane (spcc)	50	1.014	1.011	(0.236)	24552	3.52739	878.33(R)
	12 Vinyl Chloride (ccc)	62	1.100	1.097	(0.257)	9449	2.06148	513.32(R)
	14 Bromomethane	94	1.338	1.338	(0.312)	3783	3.43699	855.82(R)
	15 Chloroethane	64	1.421	1.415	(0.332)	4484	2.76908	689.51(R)
	17 Trichlorofluoromethane	101	1.607	1.607	(0.375)	11688	2.50549	623.88(R)
	19 1,1-Dichloroethene (ccc)	96	2.005	2.005	(0.468)	9036	2.42842	604.68(R)
	20 *Freon 113	151	2.005	2.005	(0.468)	30742	10.5130	2617.8
	21 Acetone	43	2.034	2.041	(0.474)	40286	38.0851	9483.3
	22 *Iodomethane	142	2.127	2.131	(0.496)	8499	1.93346	481.44

Data File: /var/chem/gcms/mk.i/K040406.b/h2hn31ac.d
Report Date: 05-Apr-2006 12:52

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/Kg)
23 Carbon Disulfide	76	2.188	2.188	(0.510)	8033	0.54146	134.82(R)
26 Methylene Chloride	84	2.384	2.384	(0.556)	19223	4.05537	1009.8(R)
27 *Acrylonitrile	53	2.560	2.567	(0.597)	82883	62.3757	15532(R)
32 1,1-Dichloroethane (spcc)	63	2.926	2.926	(0.683)	17968	2.06215	513.48(R)
33 *Vinyl Acetate	86	2.968	2.962	(0.692)	466	0.58309	145.19
35 cis 1,2-Dichloroethene	96	3.382	3.379	(0.789)	10320	2.03900	507.72(R)
36 2-Butanone	43	3.385	3.382	(0.790)	135391	79.2015	19722(R)
38 Bromochloromethane	128	3.568	3.568	(0.832)	2764	1.47810	368.05(R)
39 *THF	42	3.610	3.610	(0.842)	32872	28.3999	7071.7
40 Chloroform (ccc)	83	3.629	3.629	(0.847)	68403	8.46019	2106.6
41 1,1,1-Trichloroethane	97	3.780	3.780	(0.882)	170542	24.4258	6082.1(R)
42 Carbon Tetrachloride	117	3.915	3.918	(0.913)	4239	0.78082	194.43(R)
44 Benzene	78	4.069	4.069	(0.949)	148167	7.64324	1903.2(R)
45 1,2-Dichloroethane	62	4.078	4.075	(0.951)	32002	5.63165	1402.3(R)
46 Trichloroethene	130	4.582	4.579	(1.069)	400830	86.0877	21436(R)
47 1,2-Dichloropropane (ccc)	63	4.755	4.749	(1.109)	4185	0.86216	214.68(R)
48 Dibromomethane	93	4.842	4.845	(1.129)	2067	0.85450	212.77(R)
50 Bromodichloromethane	83	4.974	4.970	(1.160)	4983	0.84023	209.22(R)
53 4-Methyl-2-pentanone	43	5.461	5.458	(0.805)	11326	3.12993	779.36(R)
54 Toluene (ccc)	91	5.619	5.615	(0.829)	44948	2.27644	566.84(R)
57 1,1,2-Trichloroethane	97	5.943	5.946	(0.876)	5313	1.48171	368.95(R)
58 Tetrachloroethene	164	6.081	6.081	(0.897)	13163	3.94547	982.44(R)
59 1,3-Dichloropropane	76	6.084	6.084	(0.897)	4085	0.66069	164.52(R)
65 Ethylbenzene (ccc)	106	7.002	6.902	(1.033)	5541	0.83602	208.17(R)
88 1,2-Dibromo-3-chloropropane	157	10.968	10.945	(1.155)	355	0.52995	131.96(R)
91 Napthalene	128	12.052	12.053	(1.269)	11016	0.84891	211.38(R)

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

Data File: /var/chem/gcms/mk.i/K040406.b/h2hn31ac.d
Report Date: 05-Apr-2006 12:52

STL Knoxville

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

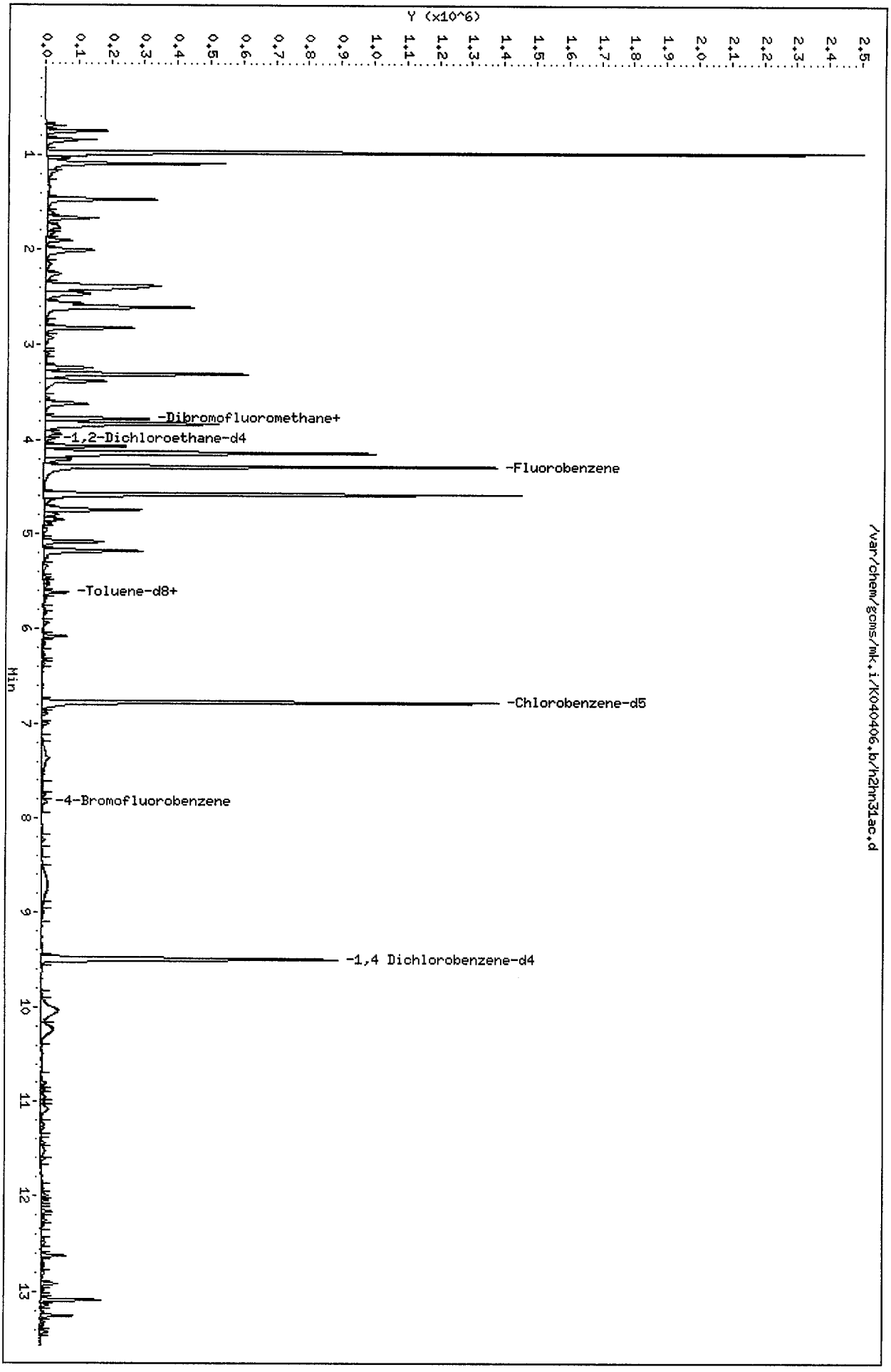
Instrument ID: mk.i
Lab File ID: h2hn31ac.d
Lab Smp Id: H2HN31AC
Analysis Type: VOA
Quant Type: ISTD
Operator: 063605
Method File: /var/chem/gcms/mk.i/K040406.b/MS8260NM.m
Misc Info: K040406,MS8260,focus.sub

Calibration Date: 04-APR-2006
Calibration Time: 17:37
Client Smp ID: G-2889-R1-SPENT ACT
Level: MED
Sample Type: SOIL

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	1075684	537842	2151368	997218	-7.29
2 Chlorobenzene-d5	737847	368924	1475694	664895	-9.89
3 1,4 Dichlorobenze	307012	153506	614024	261151	-14.94

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	4.28	3.78	4.78	4.29	0.07
2 Chlorobenzene-d5	6.78	6.28	7.28	6.78	0.00
3 1,4 Dichlorobenze	9.50	9.00	10.00	9.49	-0.04

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


Data File: /var/chem/gcms/mk.i/K040406.b/h2hn31ac.d
Date : 04-APR-2006 20:48
Client ID: G-2889-R1-SPENT ACT
Sample Info: H2HN31AC,5,3,,MS
Column phase: J&W-624
Instrument: mk.i
Operator: 063005
Column diameter: 0.18
Y (x10^6)
/var/chem/gcms/mk.i/K040406.b/h2hn31ac.d
Min
-Dibromofluoromethane+
-1,2-Dichloroethane-d4
-Fluorobenzene
-Toluene-d8+
-Chlorobenzene-d5
-4-Bromofluorobenzene
-1,4 Dichlorobenzene-d4

Data File: /var/chem/gcms/mk.i/K040406.b/h2hn31ad.d
Report Date: 05-Apr-2006 12:52

STL Knoxville

Volatile Organics by GC/MS

Data file : /var/chem/gcms/mk.i/K040406.b/h2hn31ad.d
Lab Smp Id: H2HN31AD Client Smp ID: G-2889-R1-SPENT ACT
Inj Date : 04-APR-2006 21:12
Operator : 063605 Inst ID: mk.i
Smp Info : H2HN31AD,5,3,,MSD
Misc Info : K040406,MS8260,focus.sub
Comment : Volatile Organics by GC/MS
Method : /var/chem/gcms/mk.i/K040406.b/MS8260NM.m
Meth Date : 04-Apr-2006 19:31 tillerm Quant Type: ISTD
Cal Date : 03-FEB-2006 14:40 Cal File: fickb038.d
Als bottle: 7 QC Sample: MSD
Dil Factor: 5.00000
Integrator: HP RTE Compound Sublist: focus.sub
Target Version: 3.50
Processing Host: qmidhp01

Concentration Formula: Amt * DF * (Vt*5)/(Ws*Va) * CpndVariable

Vt	5000.00000	Sample Volume Purged
Ws	5.01000	Weight of sample
Va	100.00000	Volume of Methanol Aliquot

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/Kg)
*	1 Fluorobenzene	96	4.287	4.284	(1.000)	985658	50.0000	
*	2 Chlorobenzene-d5	117	6.780	6.780	(1.000)	655872	50.0000	
*	3 1,4 Dichlorobenzene-d4	152	9.495	9.498	(1.000)	258950	50.0000	
$	4 1,2-Dichloroethane-d4	65	4.017	4.017	(0.937)	3994	0.84108	41.970(R)
$	5 Dibromofluoromethane	113	3.748	3.751	(0.874)	3823	0.87297	43.562(R)
$	6 Toluene-d8	98	5.561	5.564	(0.820)	1149	0.06583	3.2850(R)
$	7 4-Bromofluorobenzene	95	7.913	7.913	(0.833)	597	0.09534	4.7577(R)
M	8 1,2-Dichloroethene (total)	96				14872	3.03691	757.71(R)
	10 Dichlorodifluoromethane	85	0.869	0.869	(0.203)	13660	2.90063	723.71(R)
	11 Chloromethane (spcc)	50	1.011	1.011	(0.236)	27903	4.15634	1037.0(R)
	12 Vinyl Chloride (ccc)	62	1.097	1.097	(0.256)	12201	2.69303	671.91(R)
	14 Bromomethane	94	1.338	1.338	(0.312)	4762	4.37699	1092.1(R)
	15 Chloroethane	64	1.418	1.415	(0.331)	6471	3.95137	985.87(R)
	17 Trichlorofluoromethane	101	1.611	1.607	(0.376)	14217	3.25286	811.59(R)
	19 1,1-Dichloroethene (ccc)	96	2.005	2.005	(0.468)	10128	2.75387	687.09(R)
	20 *Freon 113	151	2.002	2.005	(0.467)	33001	11.4181	2848.8
	21 Acetone	43	2.037	2.041	(0.475)	31049	29.6975	7409.6
	22 *Iodomethane	142	2.131	2.131	(0.497)	9032	2.07877	518.65

Data File: /var/chem/gcms/mk.i/K040406.b/h2hn31ad.d
Report Date: 05-Apr-2006 12:52

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/Kg)
23 Carbon Disulfide	76	2.185	2.188	(0.510)	9006	0.61410	153.22(R)
26 Methylene Chloride	84	2.381	2.384	(0.555)	29636	6.32534	1578.2(R)
27 *Acrylonitrile	53	2.567	2.567	(0.599)	90371	68.8086	17168(R)
29 trans-1,2-Dichloroethene	96	2.602	2.602	(0.607)	2244	0.51278	127.94(R)
32 1,1-Dichloroethane (spcc)	63	2.930	2.926	(0.683)	19719	2.28963	571.27(R)
33 *Vinyl Acetate	86	2.958	2.962	(0.690)	425	0.53760	134.13
35 cis 1,2-Dichloroethene	96	3.382	3.379	(0.789)	12628	2.52413	629.77(R)
36 2-Butanone	43	3.385	3.382	(0.790)	134202	79.4266	19817(R)
38 Bromochloromethane	128	3.568	3.568	(0.832)	2828	1.52983	381.69(R)
39 *THF	42	3.610	3.610	(0.842)	36124	31.5751	7878.0
40 Chloroform (ccc)	83	3.629	3.629	(0.847)	72334	9.05132	2258.3
41 1,1,1-Trichloroethane	97	3.780	3.780	(0.882)	160212	23.2155	5792.3(R)
42 Carbon Tetrachloride	117	3.921	3.918	(0.915)	5077	0.94604	236.04(R)
44 Benzene	78	4.072	4.069	(0.950)	123207	6.43024	1604.4(R)
45 1,2-Dichloroethane	62	4.078	4.075	(0.951)	28344	5.04649	1259.1(R)
46 Trichloroethene	130	4.579	4.579	(1.068)	408776	88.8241	22162(R)
47 1,2-Dichloropropane (ccc)	63	4.287	4.749	(1.000)	30641	6.38530	1593.1(R)
48 Dibromomethane	93	4.842	4.845	(1.129)	2711	1.13345	282.80(R)
50 Bromodichloromethane	83	4.970	4.970	(1.159)	5224	0.89110	222.33(R)
53 4-Methyl-2-pentanone	43	5.458	5.458	(0.805)	12911	3.61687	902.41(R)
54 Toluene (ccc)	91	5.615	5.615	(0.828)	27495	1.41171	352.22(R)
55 trans-1,3-Dichloropropene	75	5.333	5.792	(0.787)	3438	0.57276	142.90(R)
57 1,1,2-Trichloroethane	97	5.946	5.946	(0.877)	3595	1.01635	253.58(R)
58 Tetrachloroethene	164	6.084	6.081	(0.897)	6744	2.04939	511.32(R)
59 1,3-Dichloropropane	76	6.084	6.084	(0.897)	4770	0.78203	195.12(R)

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

Data File: /var/chem/gcms/mk.i/K040406.b/h2hn31ad.d
Report Date: 05-Apr-2006 12:52

STL Knoxville

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

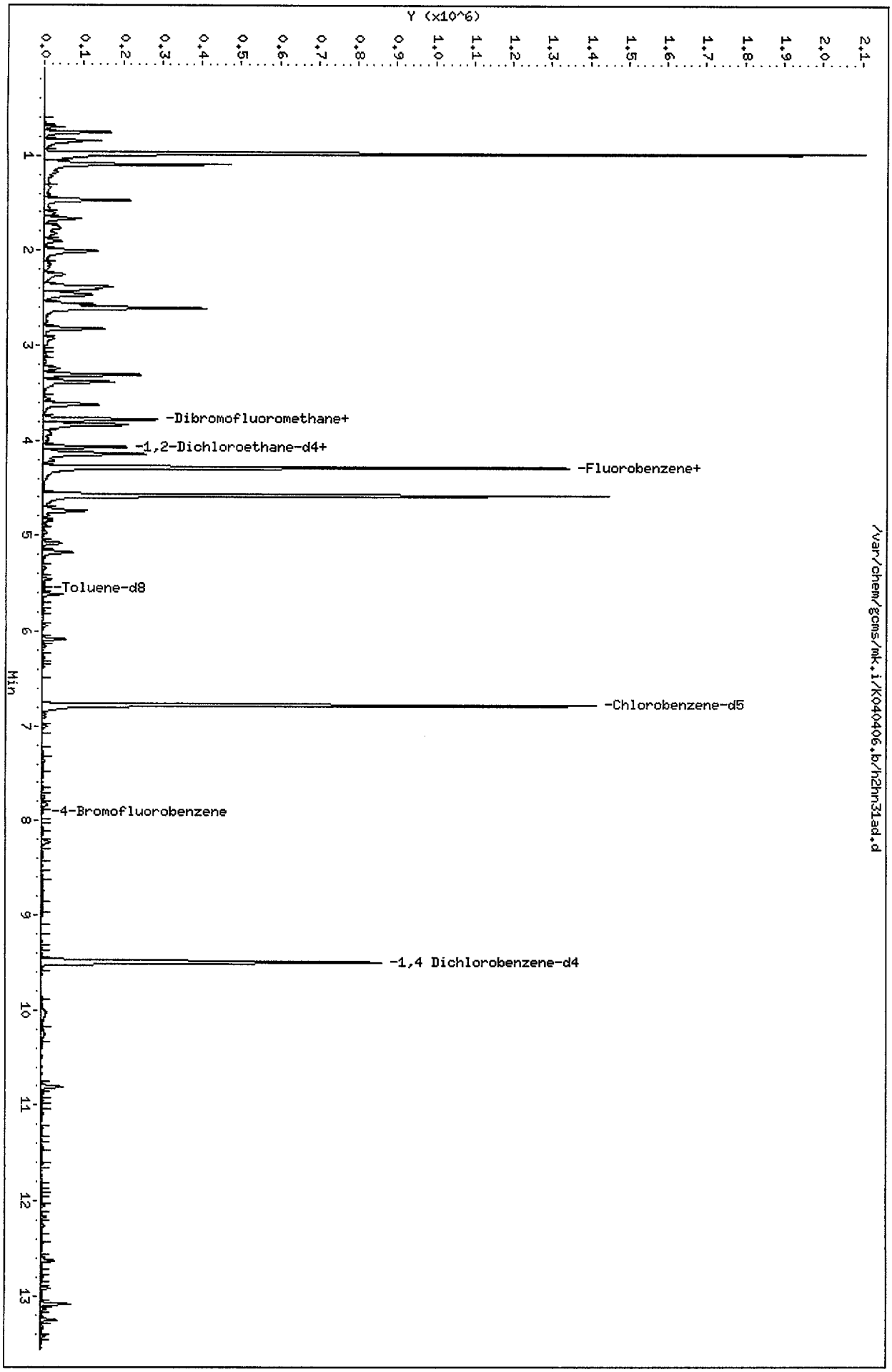
Instrument ID: mk.i
Lab File ID: h2hn31ad.d
Lab Smp Id: H2HN31AD
Analysis Type: VOA
Quant Type: ISTD
Operator: 063605
Method File: /var/chem/gcms/mk.i/K040406.b/MS8260NM.m
Misc Info: K040406,MS8260,focus.sub

Calibration Date: 04-APR-2006
Calibration Time: 17:37
Client Smp ID: G-2889-R1-SPENT ACT
Level: MED
Sample Type: SOIL

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	1075684	537842	2151368	985658	-8.37
2 Chlorobenzene-d5	737847	368924	1475694	655872	-11.11
3 1,4 Dichlorobenze	307012	153506	614024	258950	-15.65

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	4.28	3.78	4.78	4.29	0.07
2 Chlorobenzene-d5	6.78	6.28	7.28	6.78	0.00
3 1,4 Dichlorobenze	9.50	9.00	10.00	9.49	-0.03

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


Data File: /var/chem/gcms/mk.i/K040406.b/h2hn31ad.d
Date : 04-APR-2006 21:12
Client ID: G-2889-R1-SPENT ACT
Sample Info: H2HN31AD,5,3,,MSD
Instrument: mk.i
Operator: 063605
Column diameter: 0.18
Column phase: J&W-624
/var/chem/gcms/mk.i/K040406.b/h2hn31ad.d
Y (x10^6)
Min
-Dibromofluoromethane+
-1,2-Dichloroethane-d4+
-Fluorobenzene+
-Toluene-d8
-Chlorobenzene-d5
-4-Bromofluorobenzene
-1,4 Dichlorobenzene-d4

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: H6D030205 **Work Order #...:** H2MQQ1AA **Matrix.....:** WATER
MB Lot-Sample #: H6D050000-253

Prep Date.....: 04/05/06
Analysis Date..: 04/05/06 **Prep Batch #...:** 6095253
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Acetone	ND	10	ug/L	SW846 8260B
Acrylonitrile	ND	20	ug/L	SW846 8260B
Benzene	ND	1.0	ug/L	SW846 8260B
Bromobenzene	ND	1.0	ug/L	SW846 8260B
Bromochloromethane	ND	1.0	ug/L	SW846 8260B
Bromodichloromethane	ND	1.0	ug/L	SW846 8260B
Bromoform	ND	1.0	ug/L	SW846 8260B
Bromomethane	ND	2.0	ug/L	SW846 8260B
2-Butanone	ND	5.0	ug/L	SW846 8260B
n-Butylbenzene	ND	1.0	ug/L	SW846 8260B
sec-Butylbenzene	ND	1.0	ug/L	SW846 8260B
tert-Butylbenzene	ND	1.0	ug/L	SW846 8260B
Carbon disulfide	ND	1.0	ug/L	SW846 8260B
Carbon tetrachloride	ND	1.0	ug/L	SW846 8260B
Chlorobenzene	ND	1.0	ug/L	SW846 8260B
Chlorodibromomethane	ND	1.0	ug/L	SW846 8260B
Chloroethane	ND	2.0	ug/L	SW846 8260B
Chloroform	ND	1.0	ug/L	SW846 8260B
Chloromethane	ND	2.0	ug/L	SW846 8260B
2-Chlorotoluene	ND	1.0	ug/L	SW846 8260B
4-Chlorotoluene	ND	1.0	ug/L	SW846 8260B
1,2-Dibromo-3-chloro-propane	ND	2.0	ug/L	SW846 8260B
1,2-Dibromoethane	ND	1.0	ug/L	SW846 8260B
Dibromomethane	ND	1.0	ug/L	SW846 8260B
1,2-Dichlorobenzene	ND	1.0	ug/L	SW846 8260B
1,3-Dichlorobenzene	ND	1.0	ug/L	SW846 8260B
1,4-Dichlorobenzene	ND	1.0	ug/L	SW846 8260B
Dichlorodifluoromethane	ND	2.0	ug/L	SW846 8260B
1,1-Dichloroethane	ND	1.0	ug/L	SW846 8260B
1,2-Dichloroethane	ND	1.0	ug/L	SW846 8260B
cis-1,2-Dichloroethene	ND	1.0	ug/L	SW846 8260B
trans-1,2-Dichloroethene	ND	1.0	ug/L	SW846 8260B
1,1-Dichloroethene	ND	1.0	ug/L	SW846 8260B
1,2-Dichloropropane	ND	1.0	ug/L	SW846 8260B
1,3-Dichloropropane	ND	1.0	ug/L	SW846 8260B
2,2-Dichloropropane	ND	1.0	ug/L	SW846 8260B
cis-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260B
trans-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260B
1,1-Dichloropropene	ND	1.0	ug/L	SW846 8260B
Ethylbenzene	ND	1.0	ug/L	SW846 8260B

(Continued on next page)

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: H6D030205 **Work Order #...:** H2MQQ1AA **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Hexachlorobutadiene	ND	2.0	ug/L	SW846 8260B
2-Hexanone	ND	5.0	ug/L	SW846 8260B
Iodomethane	**0.55 J**	**2.0**	**ug/L**	**SW846 8260B**
Isopropylbenzene	ND	1.0	ug/L	SW846 8260B
p-Isopropyltoluene	ND	1.0	ug/L	SW846 8260B
Methylene chloride	ND	2.0	ug/L	SW846 8260B
4-Methyl-2-pentanone	ND	5.0	ug/L	SW846 8260B
Naphthalene	ND	1.0	ug/L	SW846 8260B
n-Propylbenzene	ND	1.0	ug/L	SW846 8260B
Styrene	ND	1.0	ug/L	SW846 8260B
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	SW846 8260B
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	SW846 8260B
Tetrachloroethene	ND	1.0	ug/L	SW846 8260B
Tetrahydrofuran	ND	4.0	ug/L	SW846 8260B
Toluene	ND	1.0	ug/L	SW846 8260B
1,2,3-Trichlorobenzene	**0.26 J**	**1.0**	**ug/L**	**SW846 8260B**
1,2,4-Trichloro-benzene	**0.15 J**	**1.0**	**ug/L**	**SW846 8260B**
1,1,1-Trichloroethane	ND	1.0	ug/L	SW846 8260B
1,1,2-Trichloroethane	ND	1.0	ug/L	SW846 8260B
Trichloroethene	ND	1.0	ug/L	SW846 8260B
Trichlorofluoromethane	ND	2.0	ug/L	SW846 8260B
1,2,3-Trichloropropane	ND	1.0	ug/L	SW846 8260B
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	1.0	ug/L	SW846 8260B
1,2,4-Trimethylbenzene	ND	1.0	ug/L	SW846 8260B
1,3,5-Trimethylbenzene	ND	1.0	ug/L	SW846 8260B
Vinyl acetate	ND	2.0	ug/L	SW846 8260B
Vinyl chloride	ND	1.0	ug/L	SW846 8260B
m-Xylene & p-Xylene	ND	1.0	ug/L	SW846 8260B
o-Xylene	ND	1.0	ug/L	SW846 8260B
Xylenes (total)	ND	1.0	ug/L	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	107	(79 - 120)
1,2-Dichloroethane-d4	105	(71 - 127)
Toluene-d8	104	(80 - 120)
Bromofluorobenzene	96	(69 - 126)

NOTE(S):

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

J Estimated result. Result is less than RL.

STL Knoxville - ACS

Method Blank Report

GC/MS Volatiles

Lot-Sample #: H6D050000-253 B **Work Order #:** H2MQQ1AA **Matrix:** WATER

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT	RETENTION TIME	UNITS
None				ug/L

Data File: /chem/gcms/mz.i/Z040506.b/h2mqq1aa.d
Report Date: 05-Apr-2006 16:10

STL Knoxville

Volatile Organics by GC/MS

Data file : /chem/gcms/mz.i/Z040506.b/h2mqq1aa.d
Lab Smp Id: H2MQQ1AA Client Smp ID: INTRA-LAB BLANK
Inj Date : 05-APR-2006 15:52
Operator : 063605 Inst ID: mz.i
Smp Info : H2MQQ1AA,1,3,,BLANK
Misc Info : Z040506,8260B_LM,all.sub
Comment : Volatile Organics by GC/MS
Method : /var/chem/gcms/mz.i/Z040506.b/8260B_LM.m
Meth Date : 05-Apr-2006 15:47 tillerm Quant Type: ISTD
Cal Date : 24-MAR-2006 13:51 Cal File: icvzc248.d
Als bottle: 1 QC Sample: METHOD BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50
Processing Host: qmidhp01

Concentration Formula: Amt * DF * Uf*Vt/(Vo*1000) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Unit Correction factor
Vt	25000.00000	Sample Volume Purged
Vo	25.00000	Sample Volume Used

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
*	1 Fluorobenzene	96	5.669	5.667	(1.000)	1078768	10.0000	
*	2 Chlorobenzene-d5	119	8.930	8.933	(1.000)	190004	10.0000	
*	3 1,4 Dichlorobenzene-d4	152	11.485	11.488	(1.000)	227067	10.0000	
$	4 Dibromofluoromethane	113	4.830	4.821	(0.852)	184371	10.6661	10.666
$	5 1,2-Dichloroethane-d4	65	5.237	5.229	(0.924)	156720	10.4845	10.484
$	6 Toluene-d8	98	7.458	7.455	(0.835)	864522	10.3555	10.355
$	7 4-Bromofluorobenzene	95	10.122	10.126	(0.881)	219161	9.57046	9.5705
	15 Bromomethane	94	1.417	1.414	(0.250)	1219	~~0.94027~~	~~0.94027~~
	22 Acetone	43	2.122	2.126	(0.374)	1374	~~3.46147~~	~~3.4615~~
	23 *Iodomethane	142	2.189	2.181	(0.386)	701	0.54716	0.54716
	26 *Acetonitrile	40	2.421	2.369	(0.427)	801	~~1.66860~~	~~1.6686~~
	34 *Vinyl Acetate	86	3.132	3.397	(0.553)	371	~~0.25860~~	0.25860
	45 1,2-Dichloroethane	62	5.675	5.326	(1.001)	16265	~~0.72201~~	~~0.72201~~
	53 4-Methyl-2-pentanone	43	7.458	7.376	(1.315)	6211	~~0.65940~~	~~0.65940~~

MM 4/6/06

Data File: /chem/gcms/mz.i/Z040506.b/h2mqq1aa.d
Report Date: 05-Apr-2006 16:10

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)
55 trans-1,3-Dichloropropene	75	7.476	7.784	(0.837)	124	~~0.63249~~	~~0.63~~248
69 Bromoform (spcc)	173	10.104	9.779	(1.131)	93	~~0.83219~~	~~0.832~~19
89 1,2,4-Trichlorobenzene	180	14.295	14.293	(1.245)	2743	0.15436	0.15436
90 Hexachlorobutadiene	225	14.521	14.524	(1.264)	1874	0.11247	0.11247
92 1,2,3-Trichlorobenzene	180	14.819	14.816	(1.290)	3052	0.26076	0.26076

MM 4/6/06

Data File: /chem/gcms/mz.i/Z040506.b/h2mqq1aa.d
Report Date: 05-Apr-2006 16:10

STL Knoxville

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: mz.i
Lab File ID: h2mqq1aa.d
Lab Smp Id: H2MQQ1AA
Analysis Type: VOA
Quant Type: ISTD
Operator: 063605
Calibration Date: 05-APR-2006
Calibration Time: 14:42
Client Smp ID: INTRA-LAB BLANK
Level: LOW
Sample Type: WATER
Method File: /var/chem/gcms/mz.i/Z040506.b/8260B_LM.m
Misc Info: Z040506,8260B_LM,all.sub

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	1078707	539354	2157414	1078768	0.01
2 Chlorobenzene-d5	188899	94450	377798	190004	0.58
3 1,4 Dichlorobenze	220143	110072	440286	227067	3.15

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	5.67	5.17	6.17	5.67	0.05
2 Chlorobenzene-d5	8.93	8.43	9.43	8.93	-0.04
3 1,4 Dichlorobenze	11.49	10.99	11.99	11.48	-0.03

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

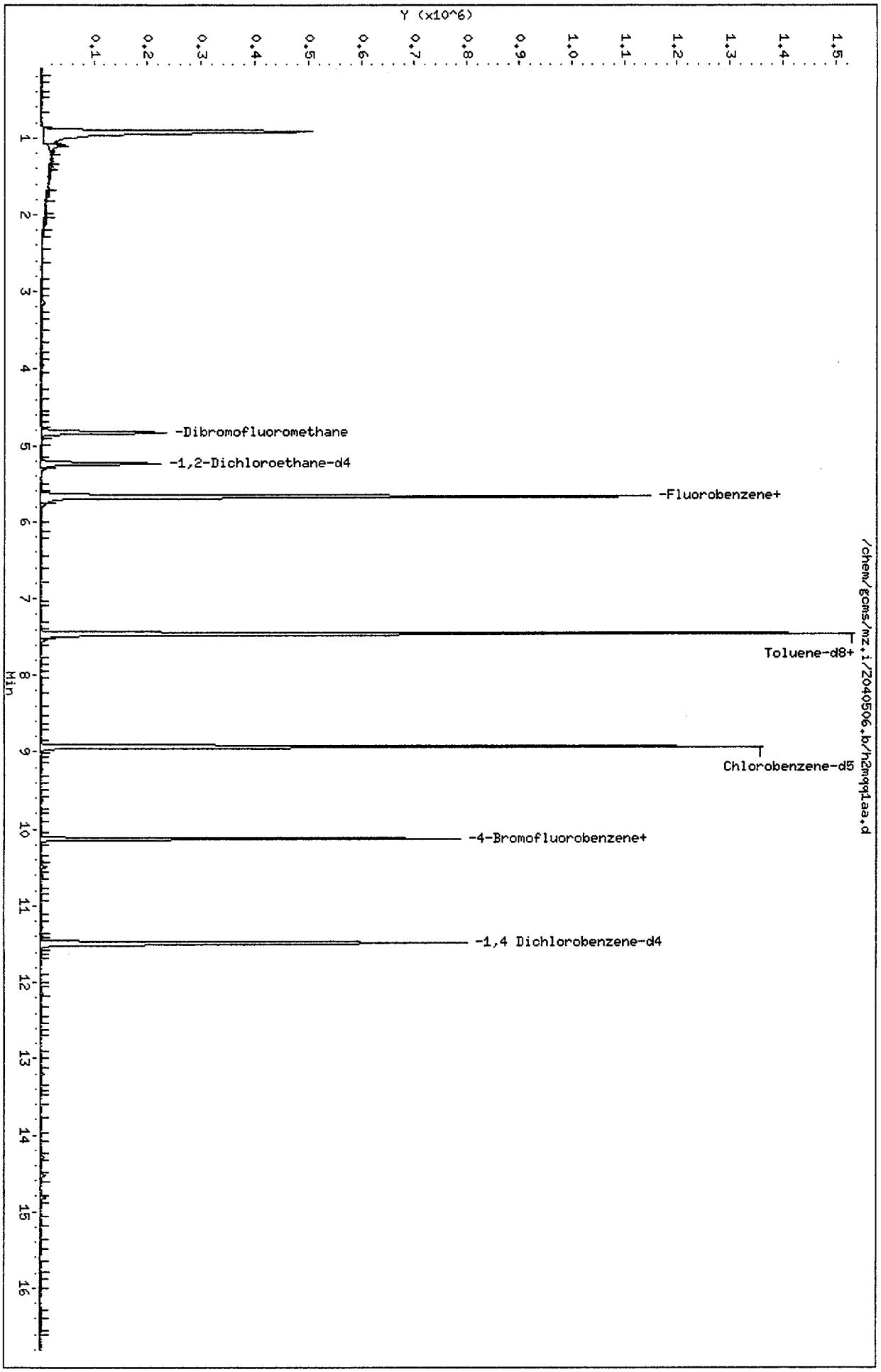
Data File: /chem/gcms/mz.i/Z040506.b/h2mqq1aa.d
Report Date: 05-Apr-2006 16:10

STL Knoxville

RECOVERY REPORT

Client Name:
Sample Matrix: LIQUID
Lab Smp Id: H2MQQ1AA
Level: LOW
Data Type: MS DATA
SpikeList File: allcmpds.spk
Sublist File: all.sub
Client SDG: H6D050000
Fraction: VOA
Client Smp ID: INTRA-LAB BLANK
Operator: 063605
SampleType: METHOD BLANK
Quant Type: ISTD
Method File: /var/chem/gcms/mz.i/Z040506.b/8260B_LM.m
Misc Info: Z040506,8260B_LM,all.sub

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
$ 4 Dibromofluorometha	10.000	10.666	106.66	79-120
$ 5 1,2-Dichloroethane	10.000	10.484	104.84	71-127
$ 6 Toluene-d8	10.000	10.355	103.55	80-120
$ 7 4-Bromofluorobenze	10.000	9.5705	95.70	69-126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Date : 05-APR-2006 15:52
Client ID: INTRA-LAB BLANK
Sample Info: H2MQQ1AA,1,3,,BLANK
Purge Volume: 25.0
Column phase: J+W 624
Instrument: mz.i
Operator: 063005
Column diameter: 0.18
Y (x10^6)
Min
-Dibromofluoromethane
-1,2-Dichloroethane-d4
-Fluorobenzene+
Toluene-d8+
Chlorobenzene-d5
-4-Bromofluorobenzene+
-1,4 Dichlorobenzene-d4
/chem/gcms/mz.i/Z040506.b/h2mqq1aa.d

Data File: /chem/gcms/mz.i/Z040506.b/h2mqq1aa.d

Date : 05-APR-2006 15:52

Client ID: INTRA-LAB BLANK

Instrument: mz.i

Sample Info: H2MQQ1AA,1,3,,BLANK

Purge Volume: 25.0

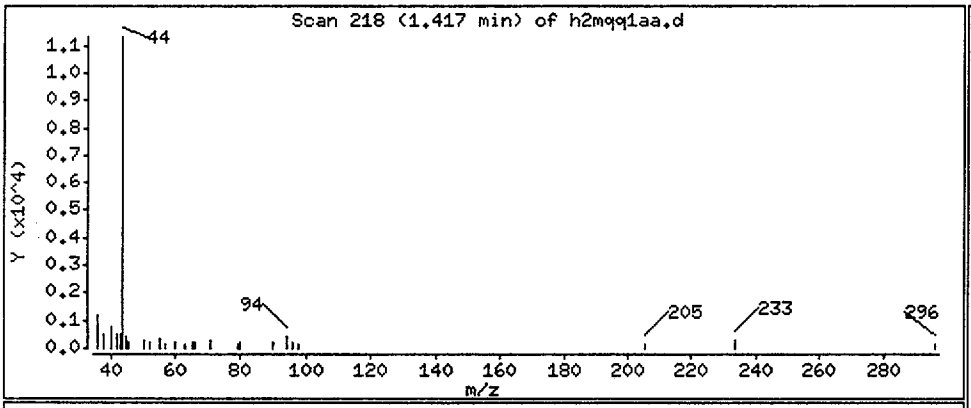
Operator: 063605

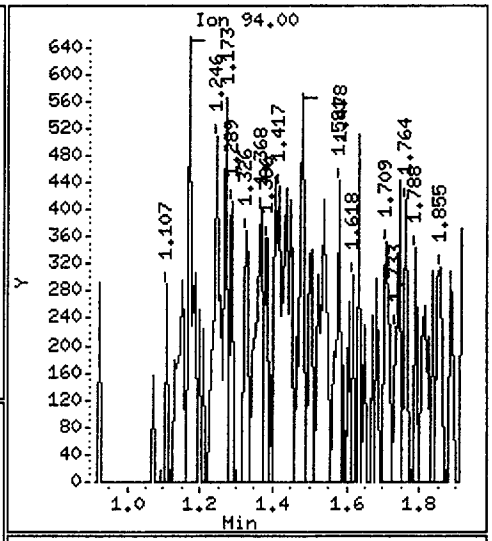
Column phase: J+W 624

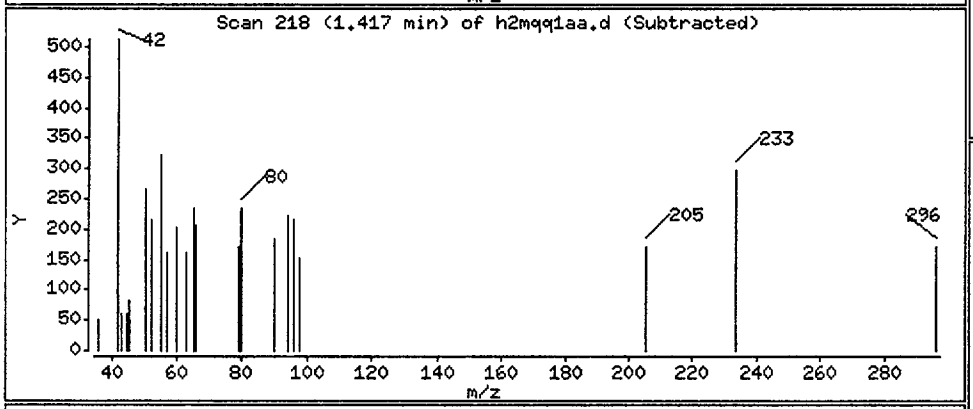
Column diameter: 0.18

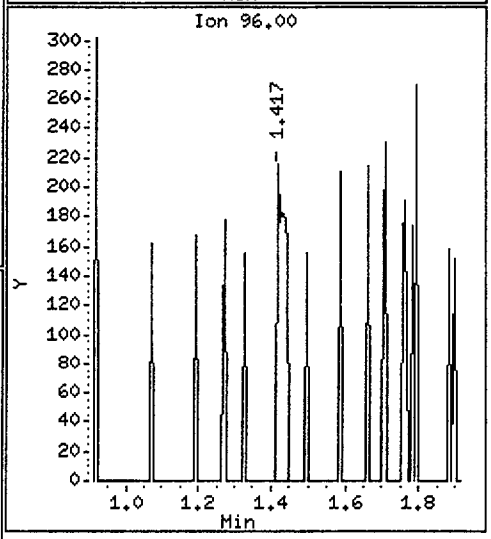
15 Bromomethane

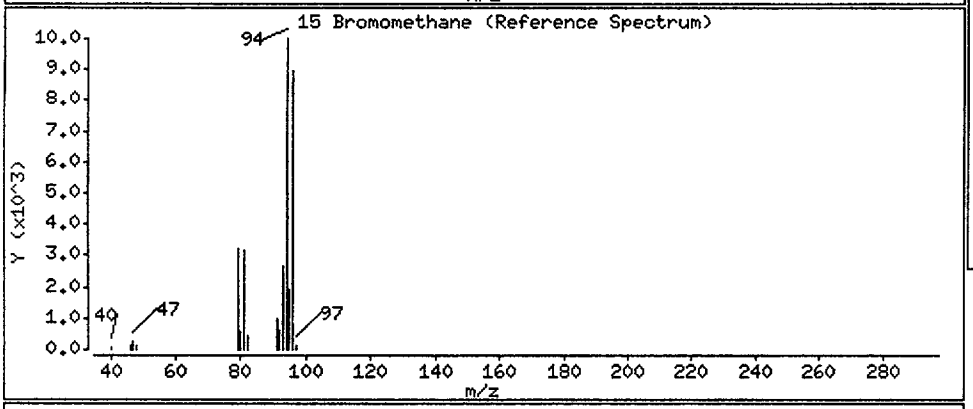
Concentration: 0.94027 ug/L

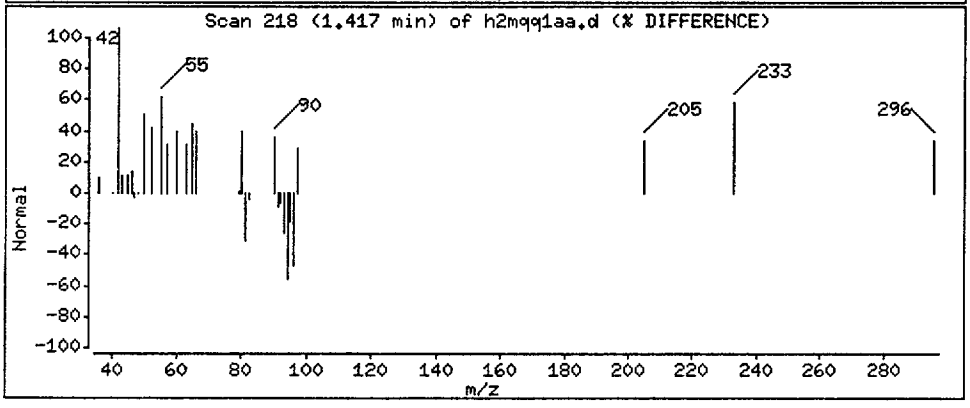












Data File: /chem/gcms/mz.i/Z040506.b/h2mqq1aa.d

Date : 05-APR-2006 15:52

Client ID: INTRA-LAB BLANK

Instrument: mz.i

Sample Info: H2MQQ1AA,1,3,,BLANK

Purge Volume: 25.0

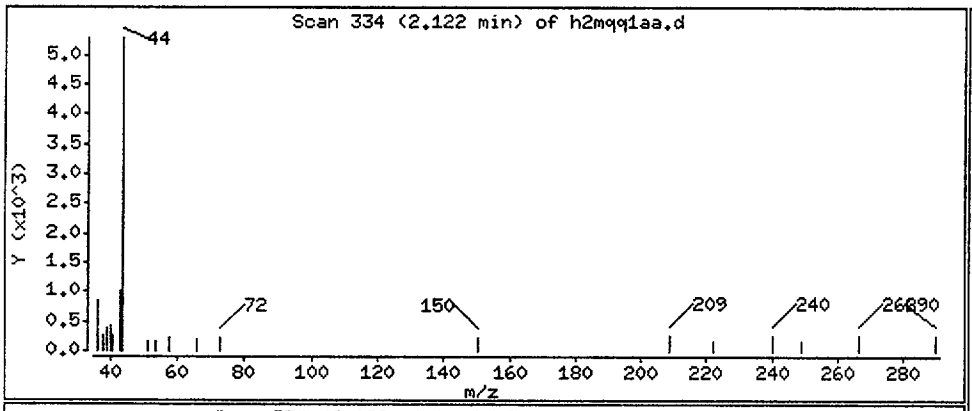
Operator: 063605

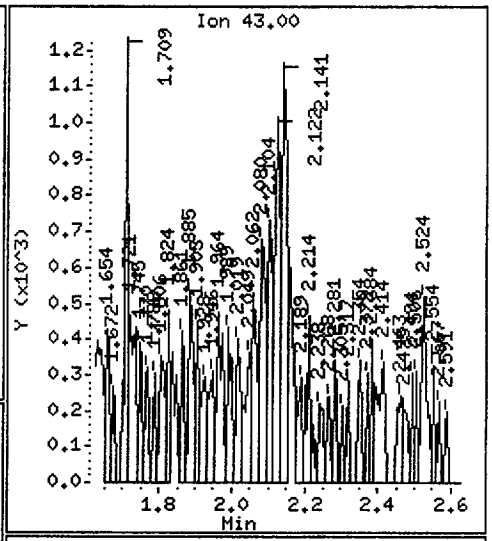
Column phase: J+W 624

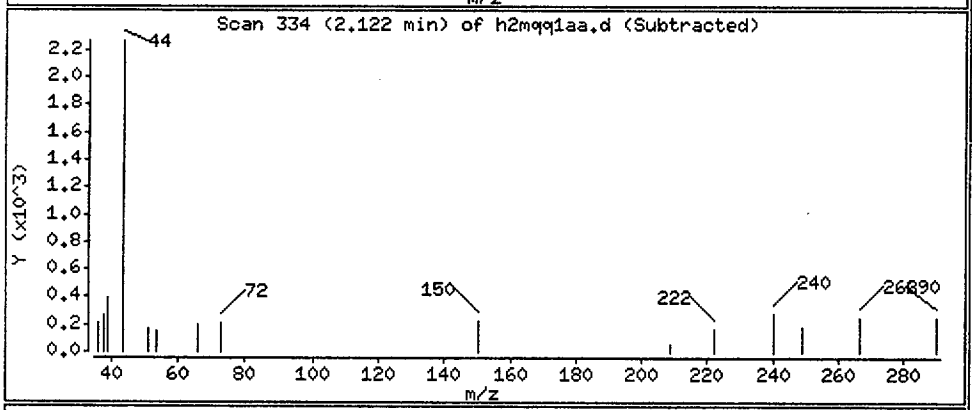
Column diameter: 0.18

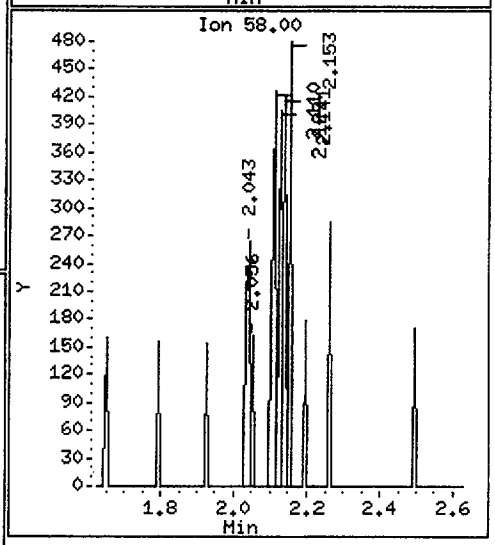
22 Acetone

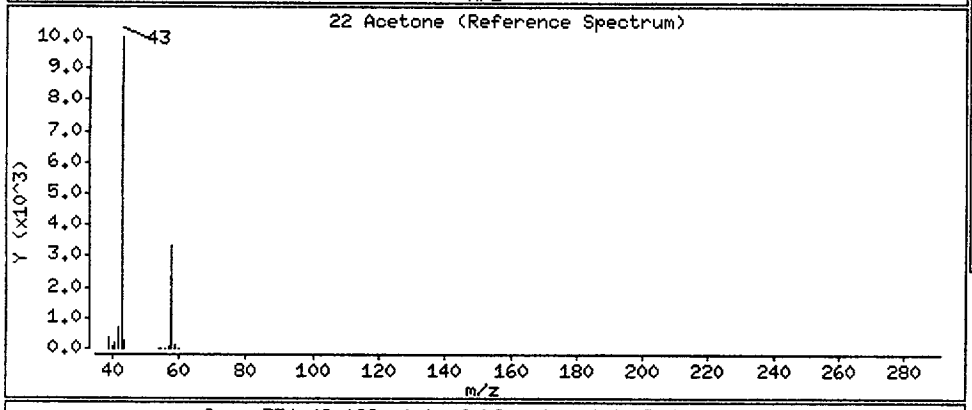
Concentration: 3.4615 ug/L

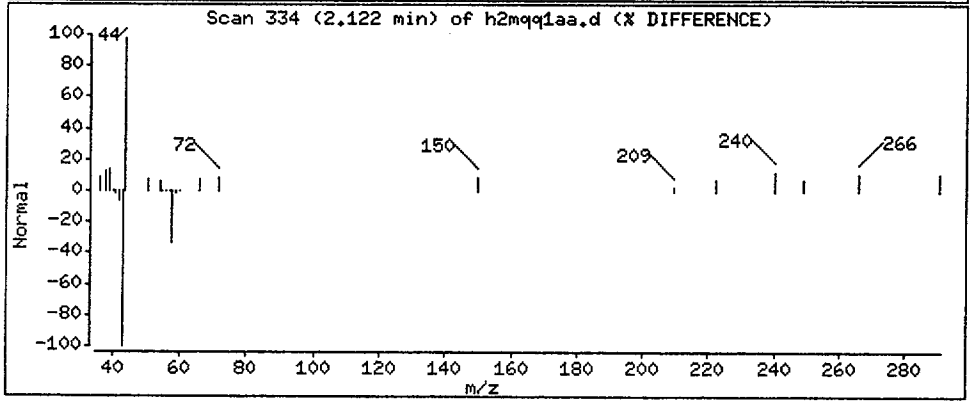












Data File: /chem/gcms/mz.i/Z040506.b/h2mqq1aa.d

Date : 05-APR-2006 15:52

Client ID: INTRA-LAB BLANK

Instrument: mz.i

Sample Info: H2MQQ1AA,1,3,,BLANK

Purge Volume: 25.0

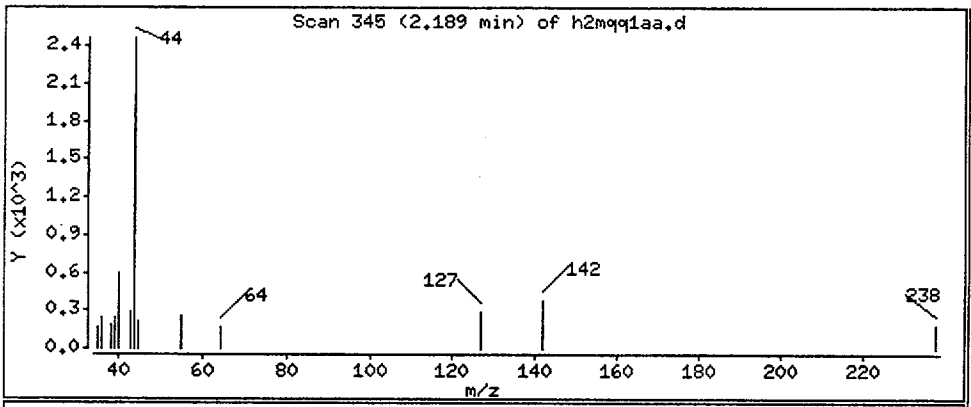
Operator: 063605

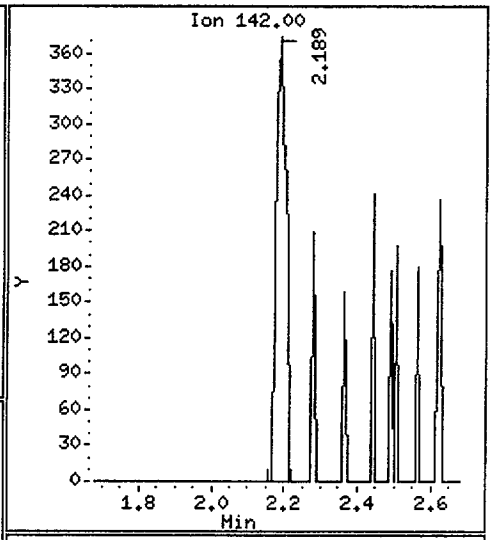
Column phase: J+W 624

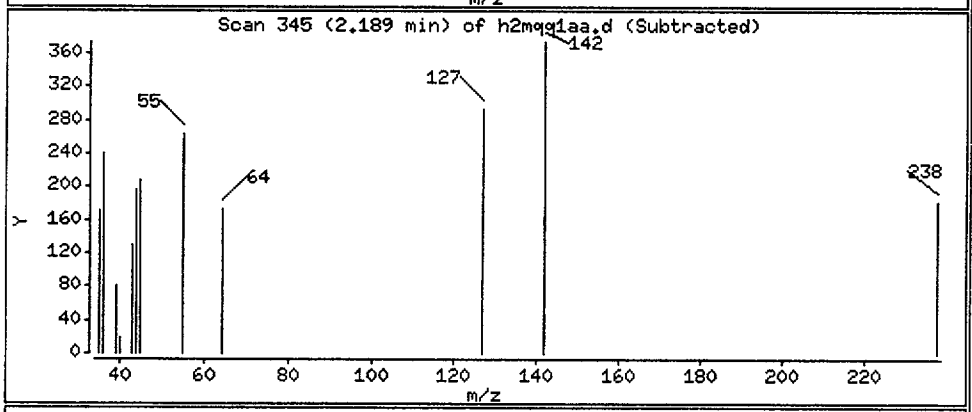
Column diameter: 0.18

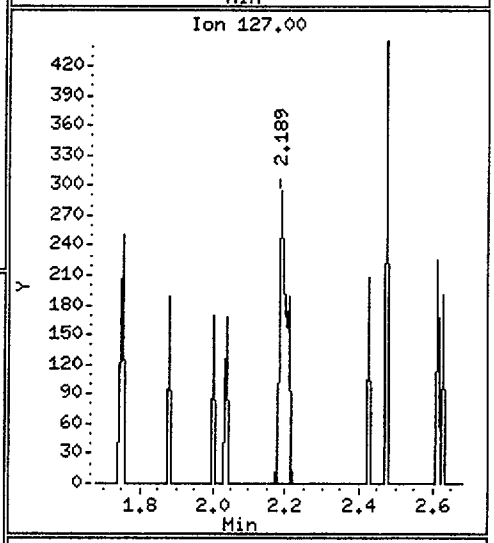
23 *Iodomethane

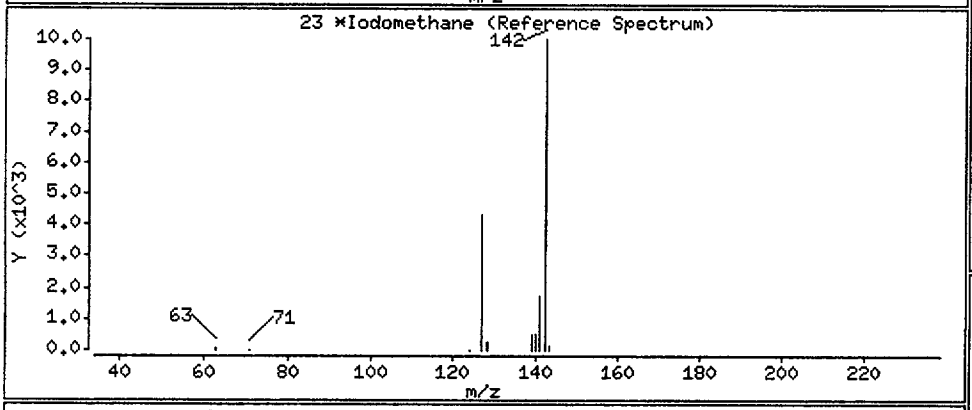
Concentration: 0.54716 ug/L

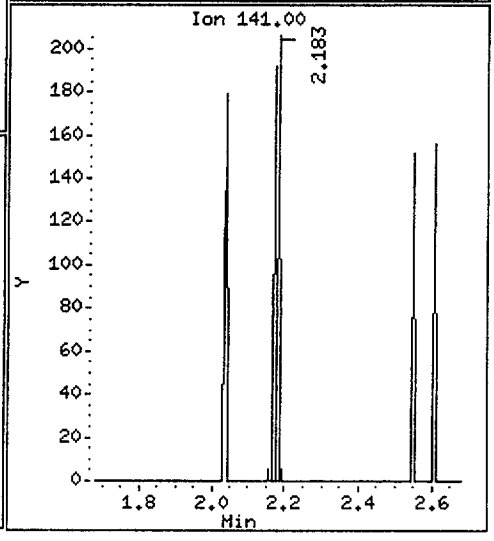


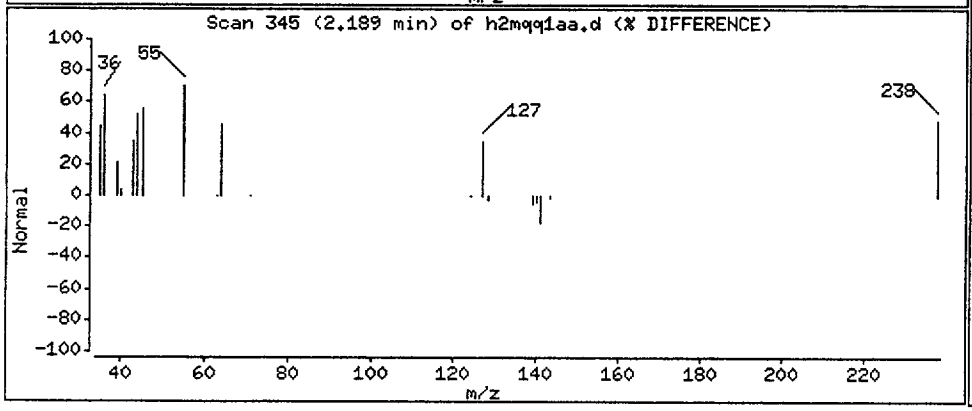












Data File: /chem/gcms/mz.i/Z040506.b/h2mqq1aa.d

Date : 05-APR-2006 15:52

Client ID: INTRA-LAB BLANK

Instrument: mz.i

Sample Info: H2MQQ1AA,1,3,,BLANK

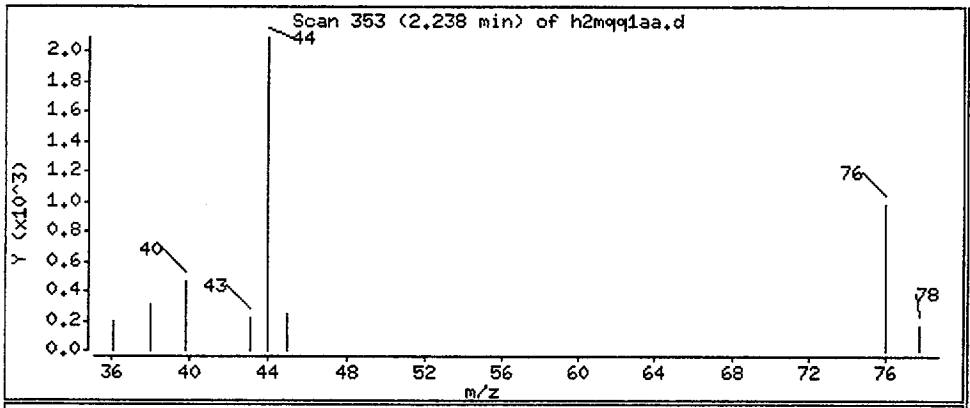
Purge Volume: 25.0

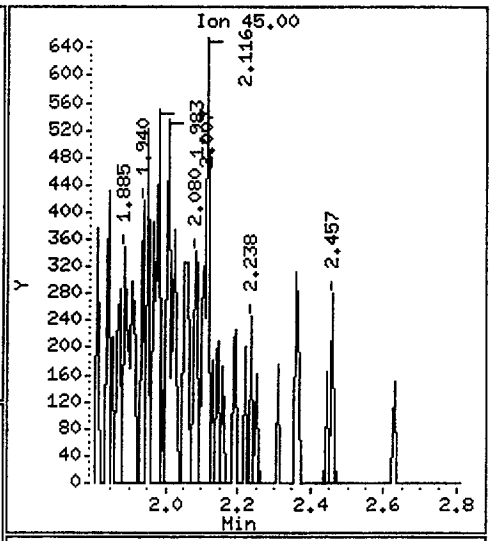
Operator: 063605

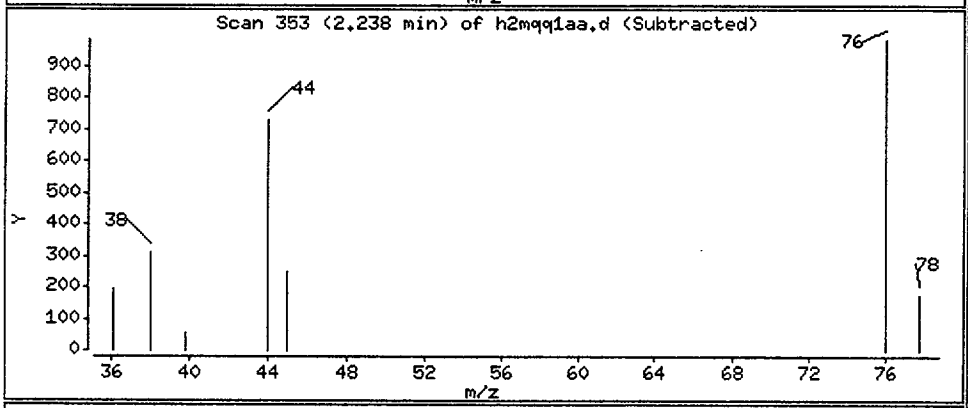
Column phase: J+W 624

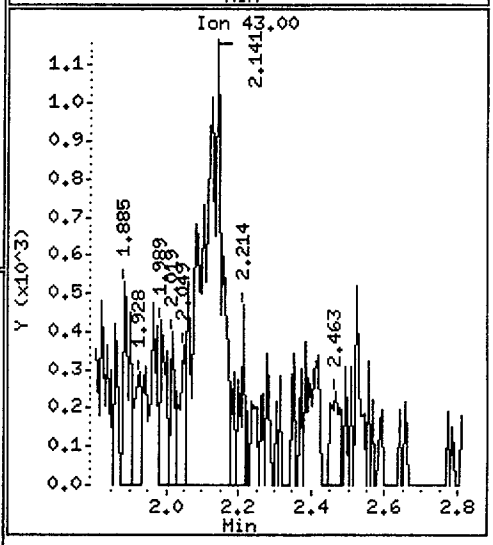
Column diameter: 0.18

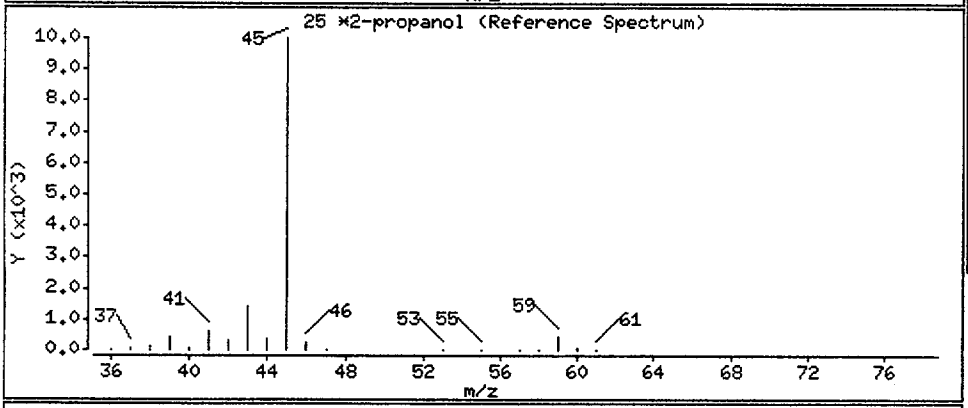
25 x2-propanol

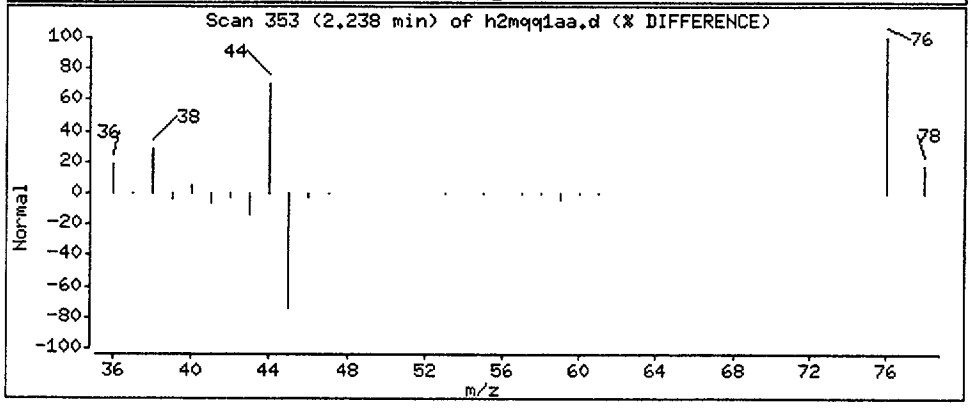












Data File: /chem/gcms/mz.i/Z040506.b/h2mqq1aa.d

Date : 05-APR-2006 15:52

Client ID: INTRA-LAB BLANK

Instrument: mz.i

Sample Info: H2MQQ1AA,1,3,,BLANK

Purge Volume: 25.0

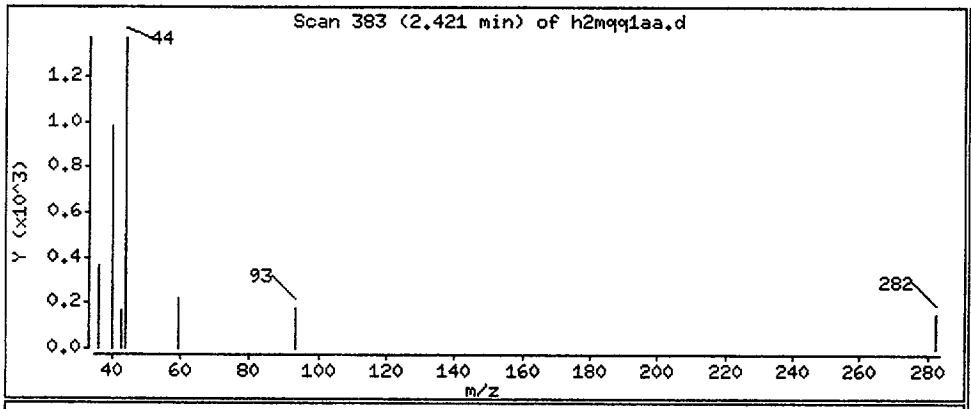
Operator: 063605

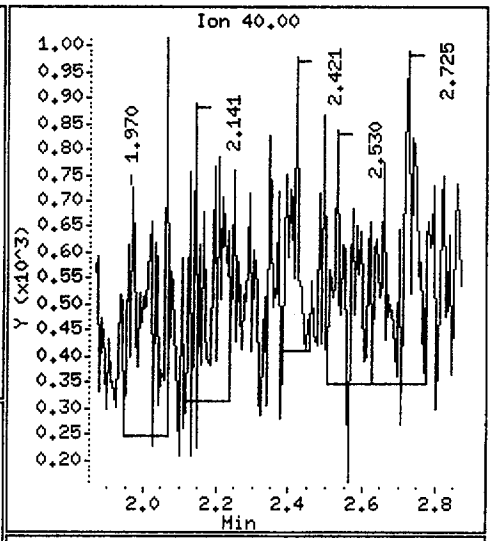
Column phase: J+W 624

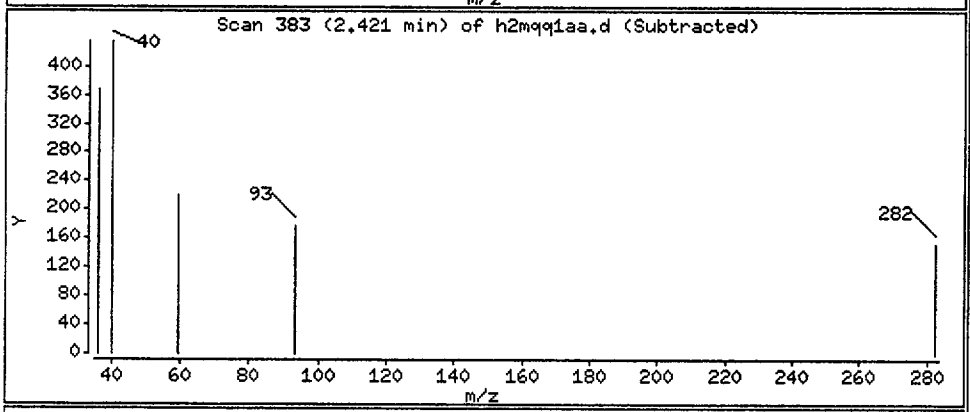
Column diameter: 0.18

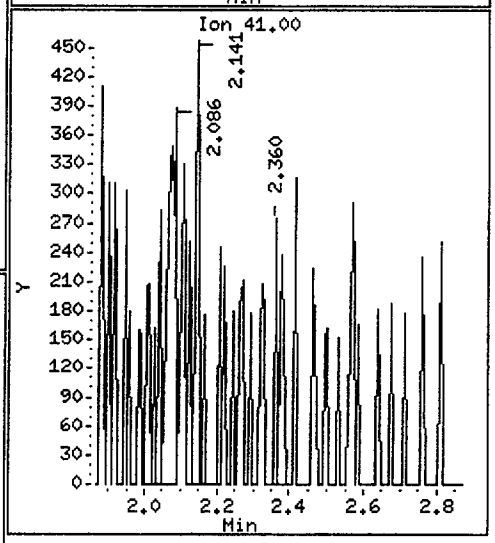
26 *Acetonitrile

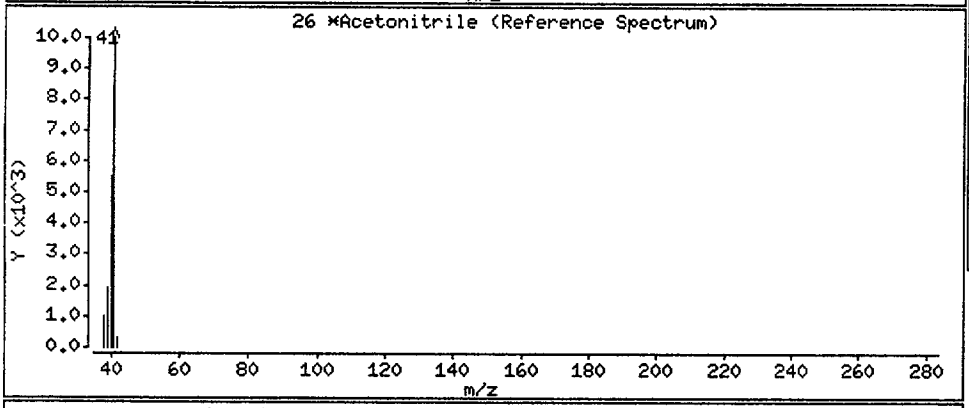
Concentration: 1.6686 ug/L

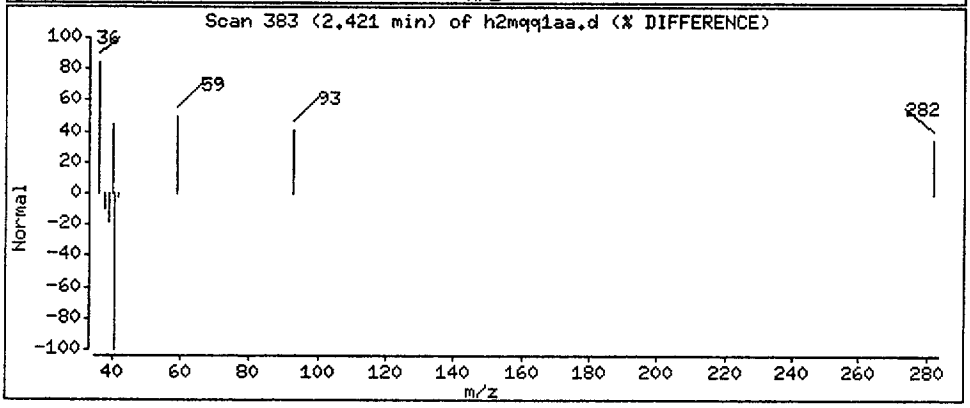












Data File: /chem/gcms/mz.i/Z040506.b/h2mqq1aa.d

Date : 05-APR-2006 15:52

Client ID: INTRA-LAB BLANK

Instrument: mz.i

Sample Info: H2MQQ1AA,1,3,,BLANK

Purge Volume: 25.0

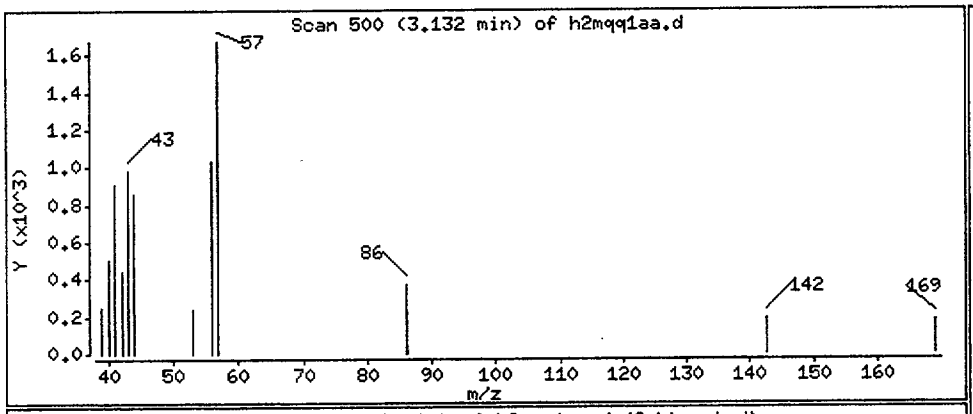
Operator: 063605

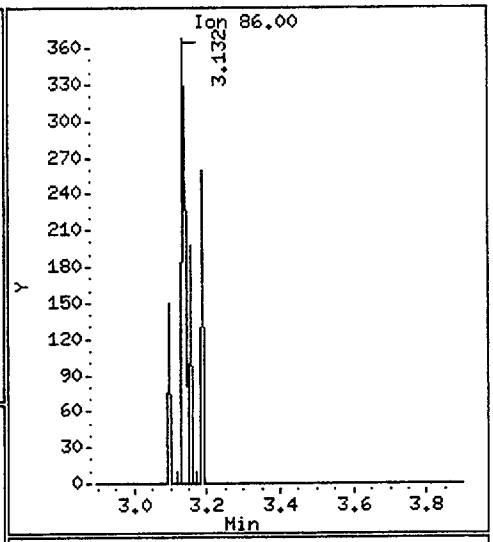
Column phase: J+W 624

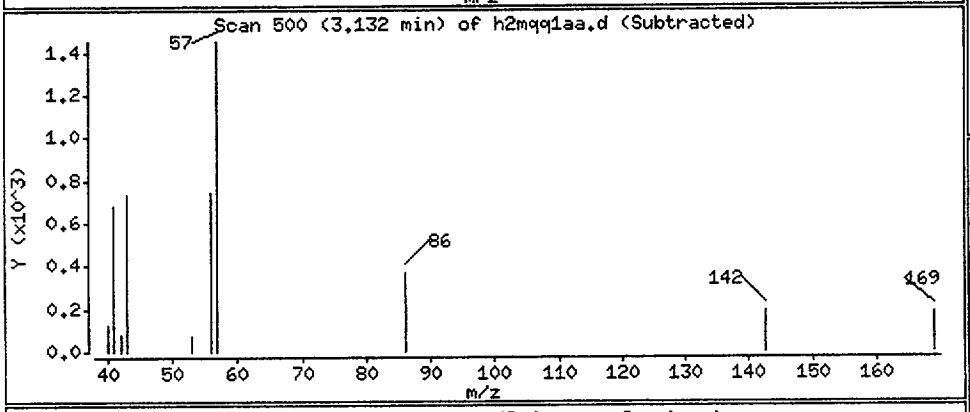
Column diameter: 0.18

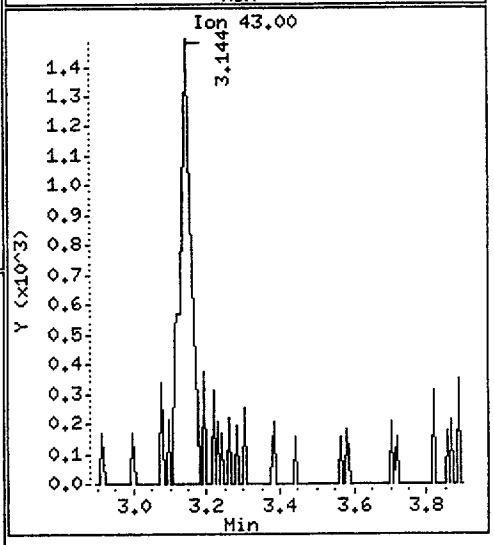
34 *Vinyl Acetate

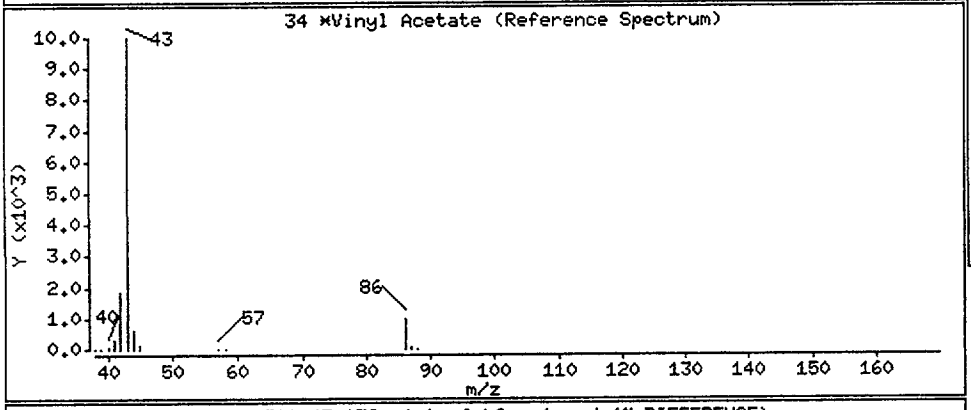
Concentration: 0.25860 ug/L

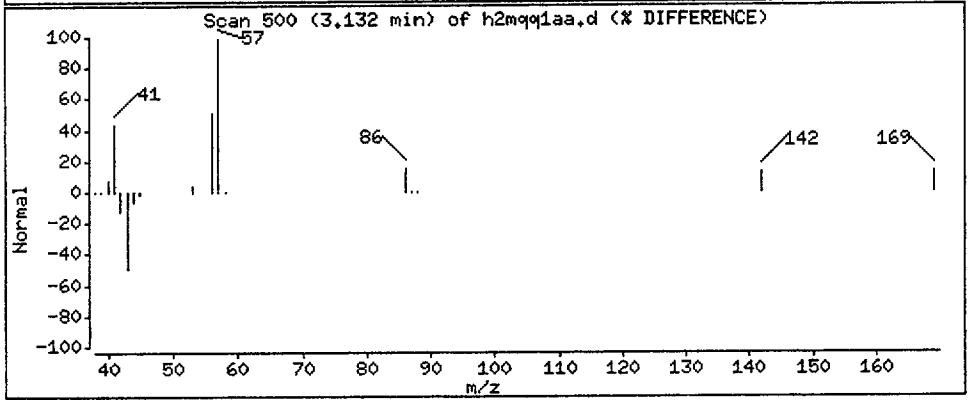












Data File: /chem/gcms/mz.i/Z040506.b/h2mqq1aa.d

Date : 05-APR-2006 15:52

Client ID: INTRA-LAB BLANK

Instrument: mz.i

Sample Info: H2MQQ1AA,1,3,,BLANK

Purge Volume: 25.0

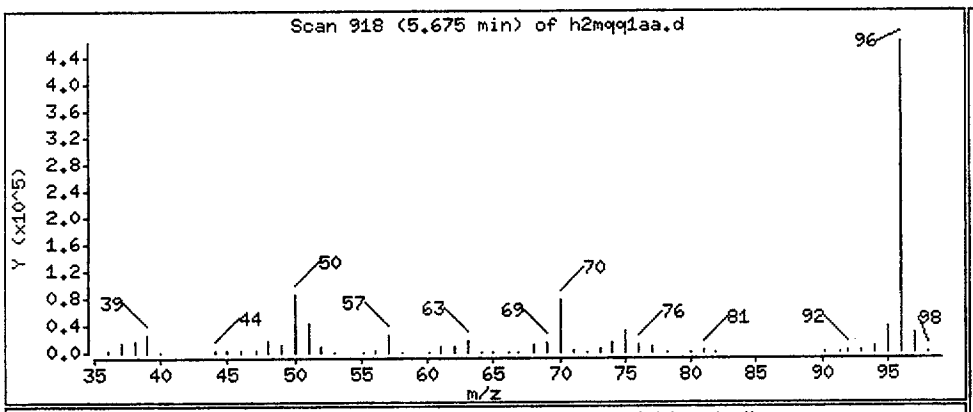
Operator: 063605

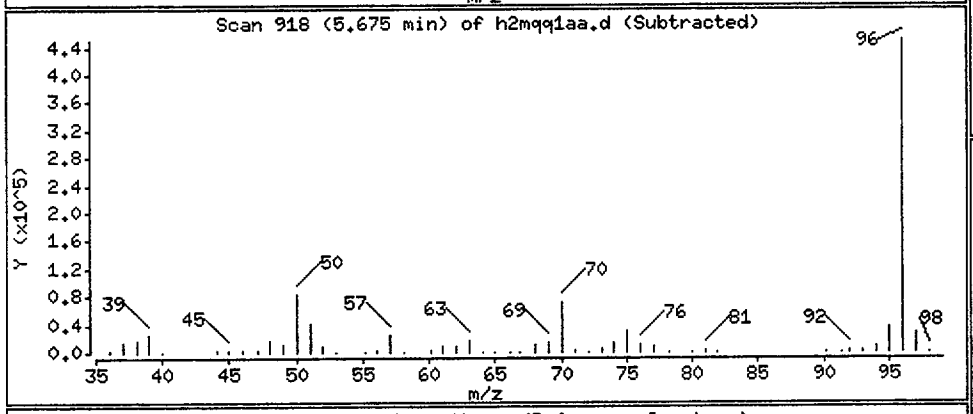
Column phase: J+W 624

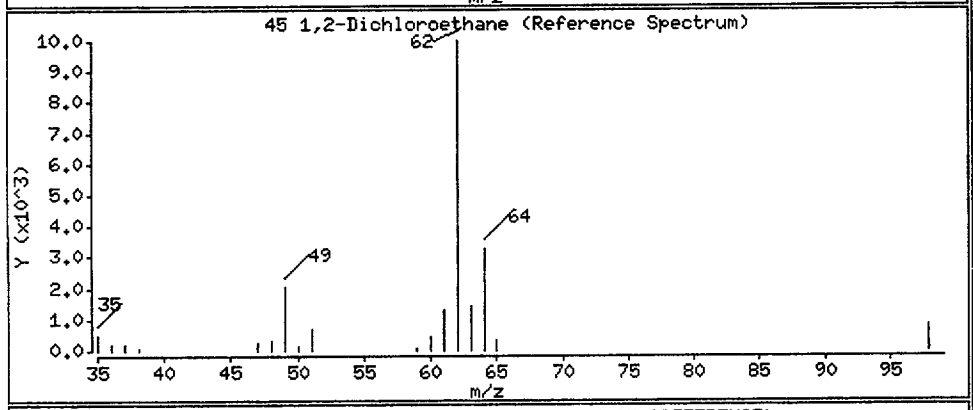
Column diameter: 0.18

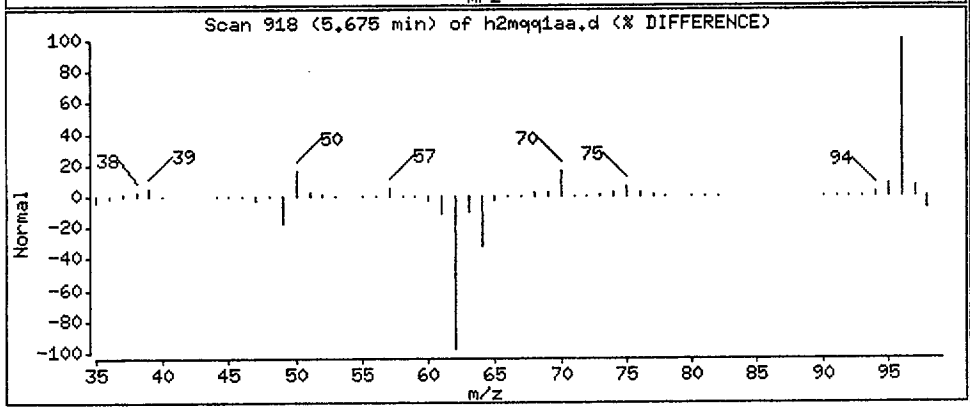
45 1,2-Dichloroethane

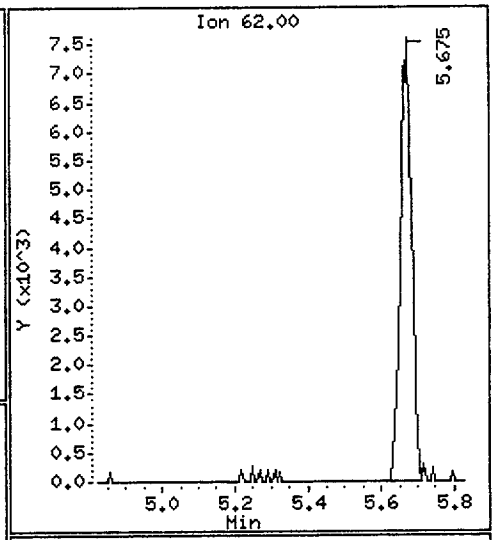
Concentration: 0.72201 ug/L

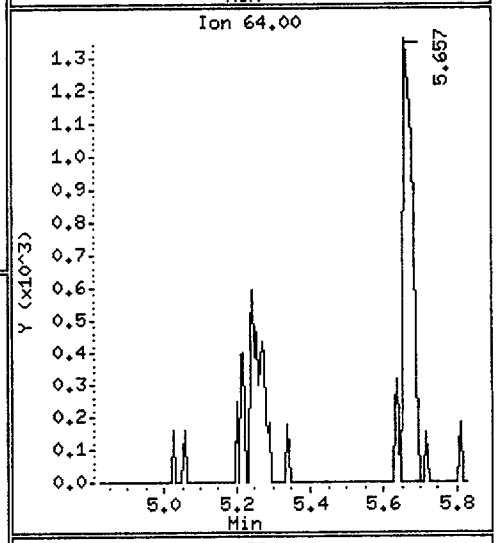


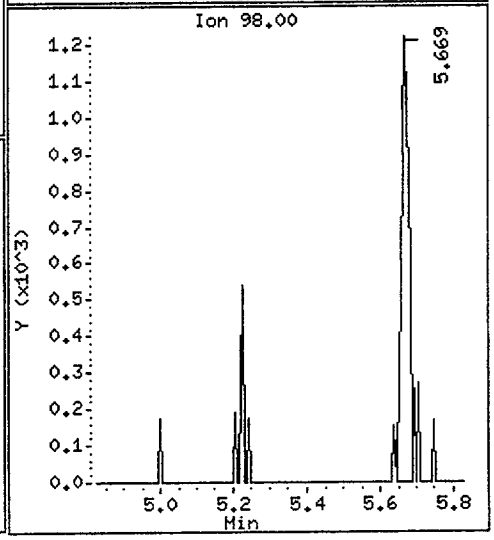












Data File: /chem/gcms/mz.i/Z040506.b/h2mqq1aa.d

Date : 05-APR-2006 15:52

Client ID: INTRA-LAB BLANK

Instrument: mz.i

Sample Info: H2MQQ1AA,1,3,,BLANK

Purge Volume: 25.0

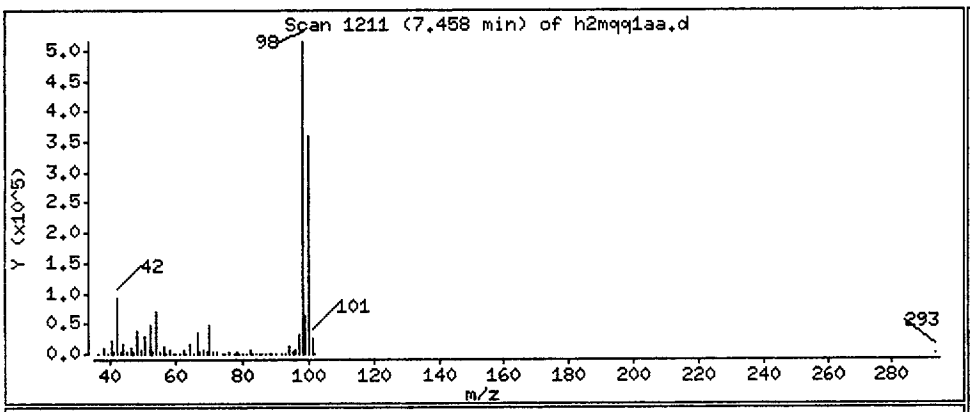
Operator: 063605

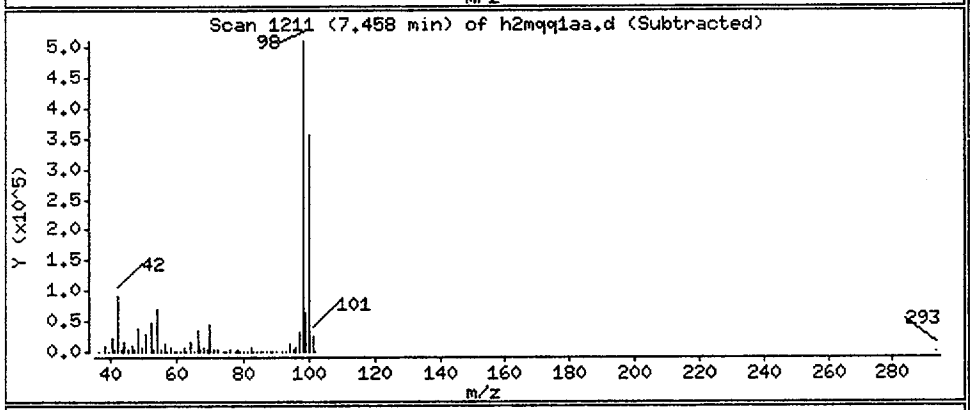
Column phase: J+W 624

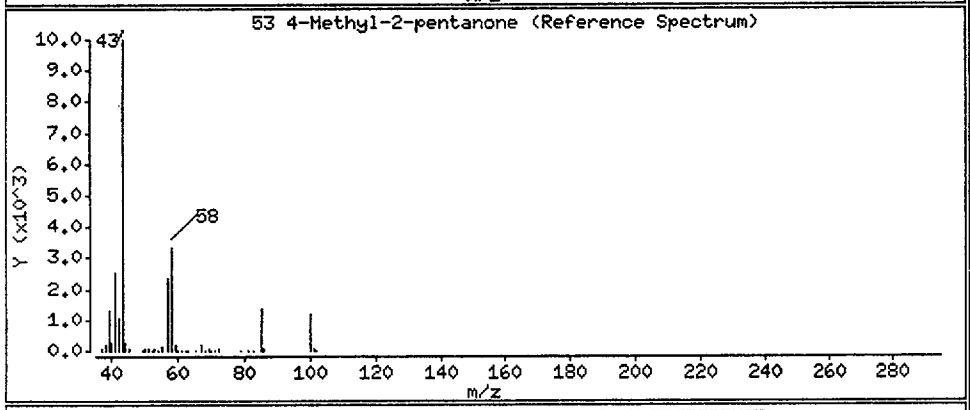
Column diameter: 0.18

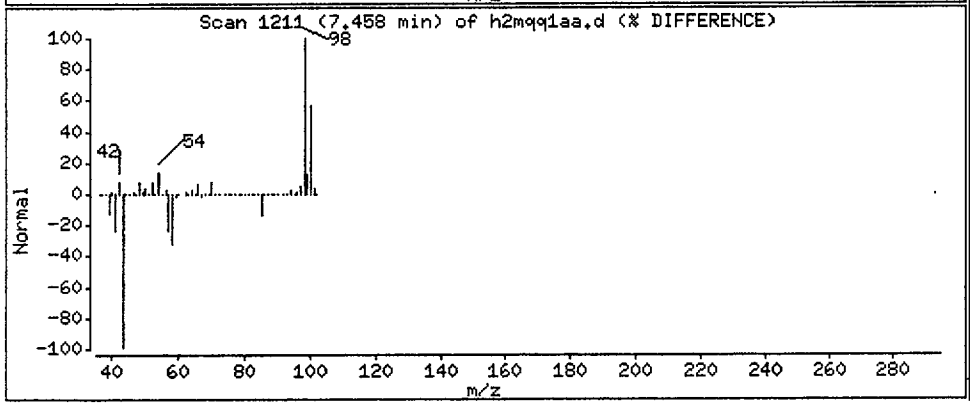
53 4-Methyl-2-pentanone

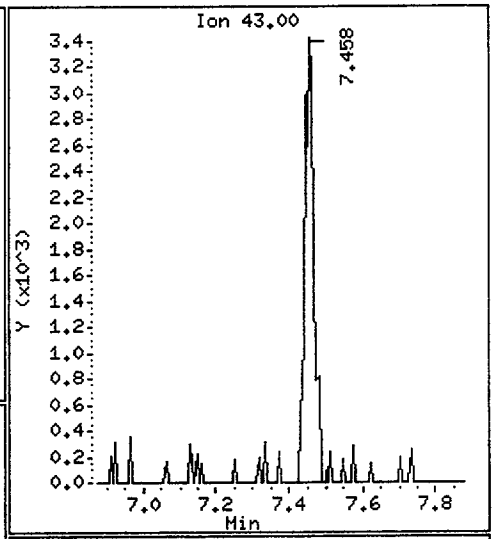
Concentration: 0.65940 ug/L

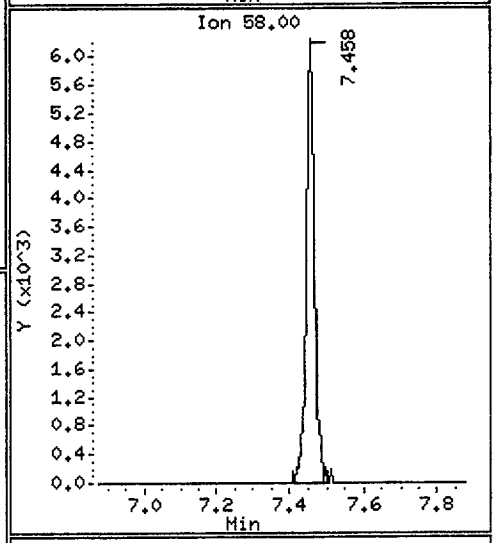


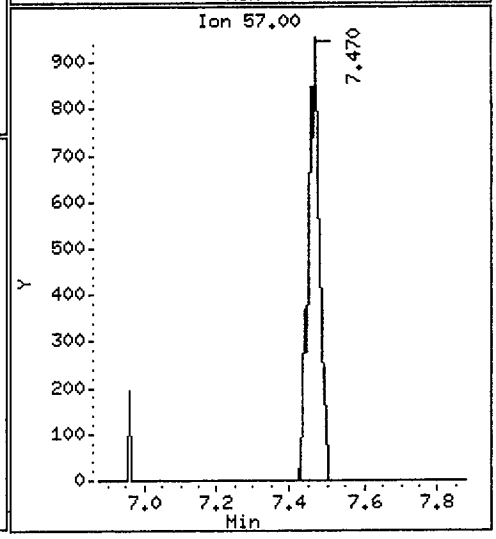












Data File: /chem/gcms/mz.i/Z040506.b/h2mqq1aa.d

Date : 05-APR-2006 15:52

Client ID: INTRA-LAB BLANK

Instrument: mz.i

Sample Info: H2MQQ1AA,1,3,,BLANK

Purge Volume: 25.0

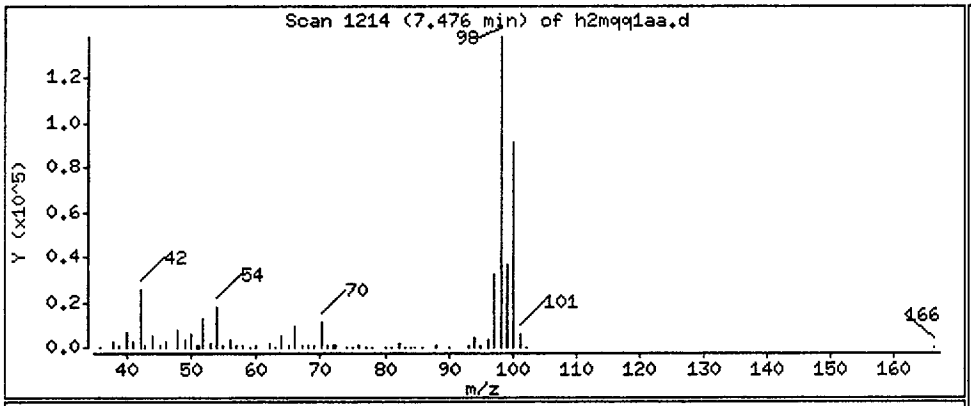
Operator: 063605

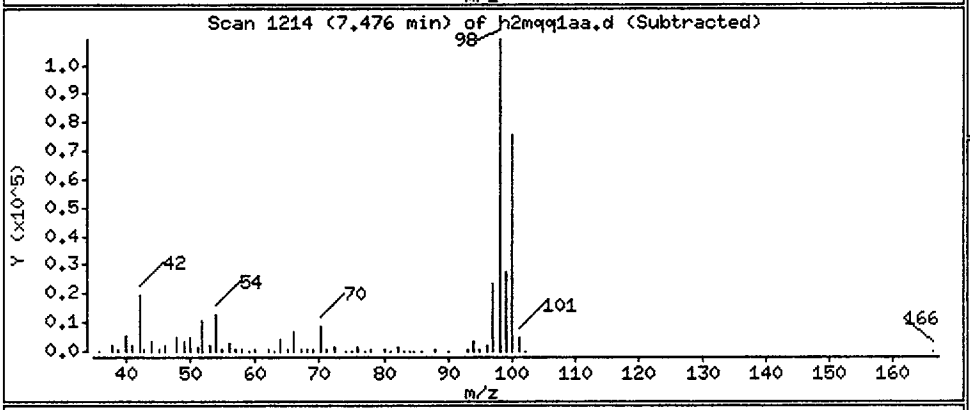
Column phase: J+W 624

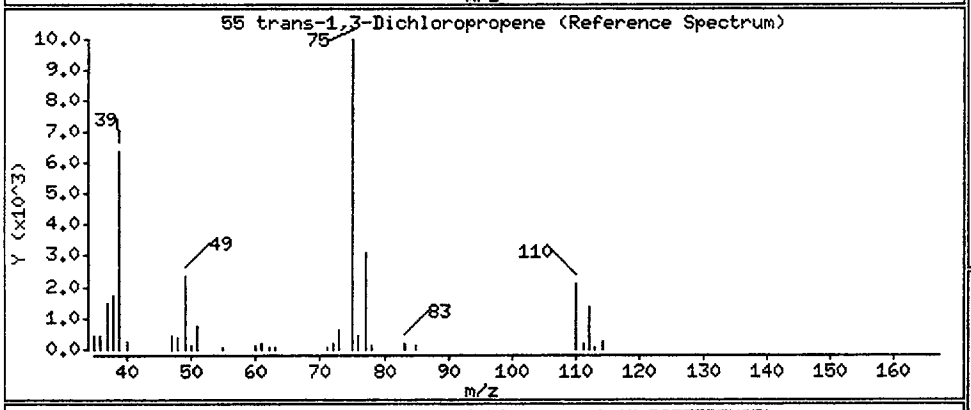
Column diameter: 0.18

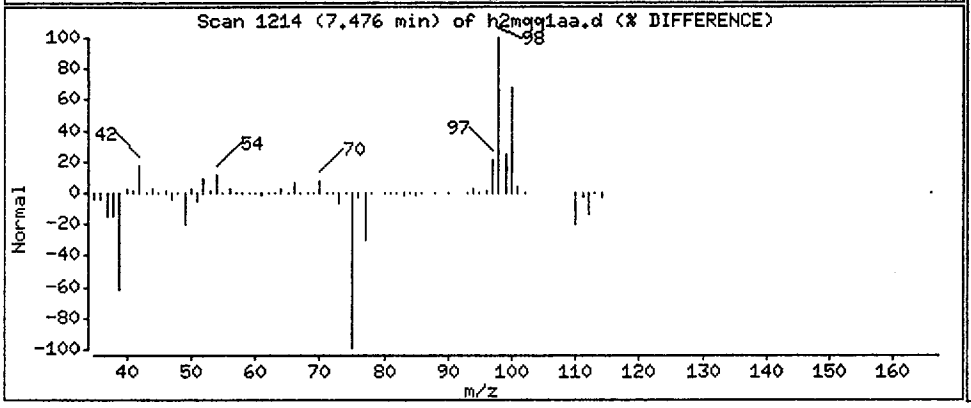
55 trans-1,3-Dichloropropene

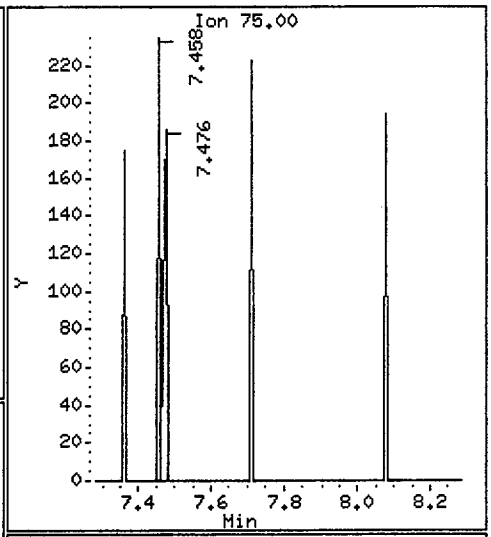
Concentration: 0.63248 ug/L

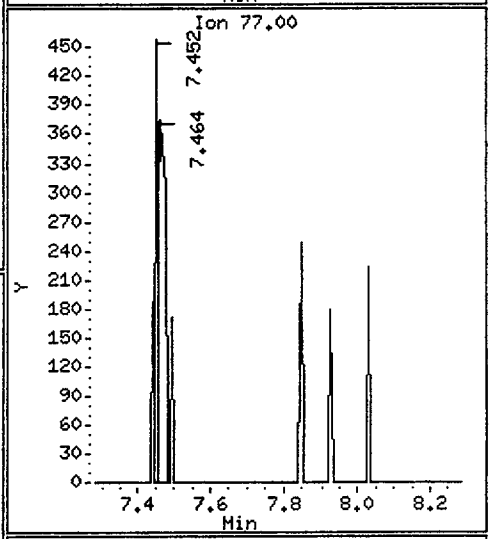


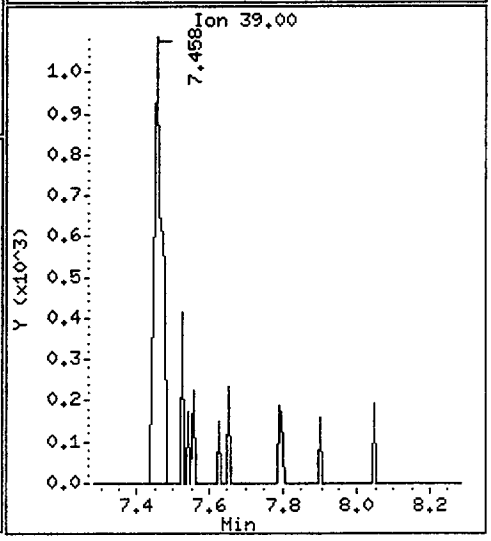












Data File: /chem/gcms/mz.i/Z040506.b/h2mqq1aa.d

Date : 05-APR-2006 15:52

Client ID: INTRA-LAB BLANK

Instrument: mz.i

Sample Info: H2MQQ1AA,1,3,,BLANK

Purge Volume: 25.0

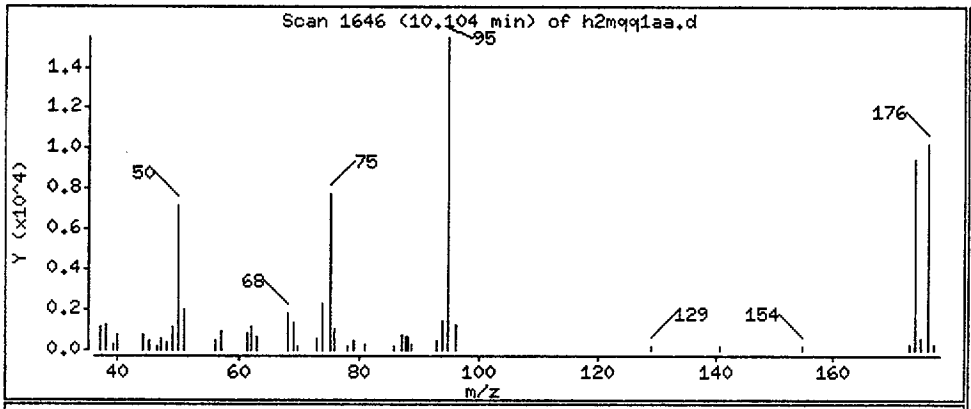
Operator: 063605

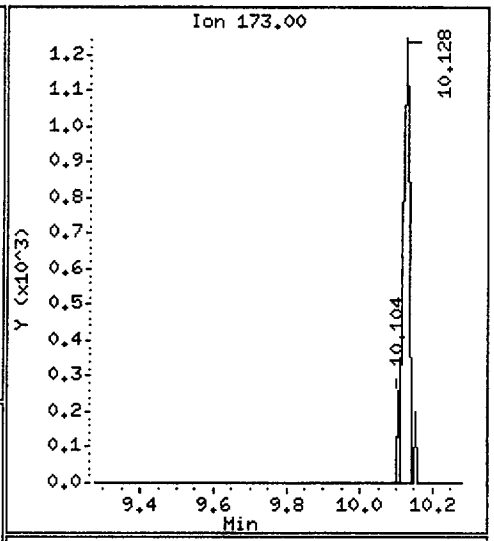
Column phase: J+W 624

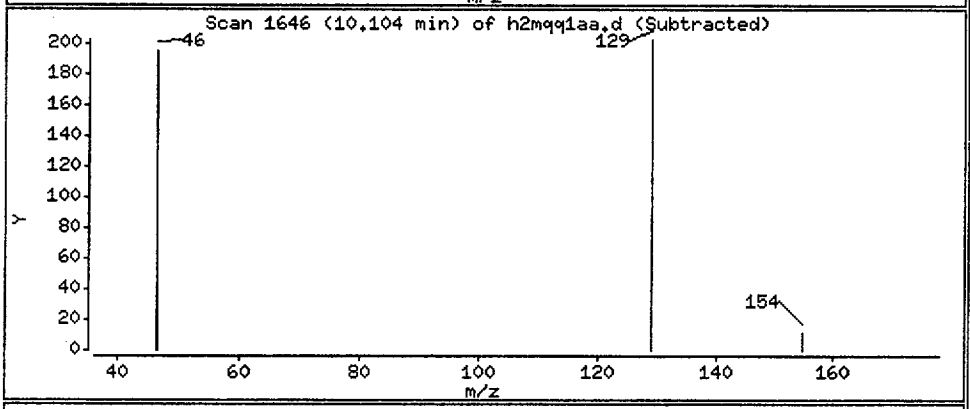
Column diameter: 0.18

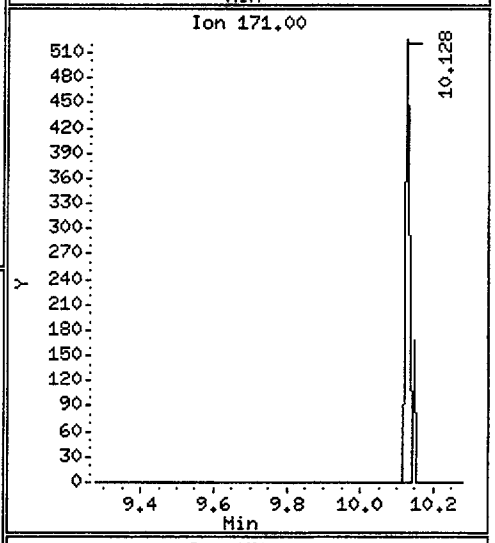
69 Bromoform (spcc)

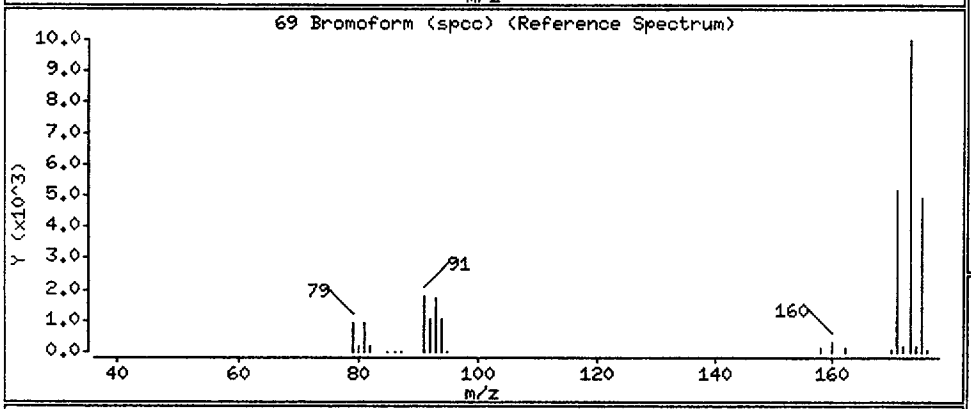
Concentration: 0.83219 ug/L

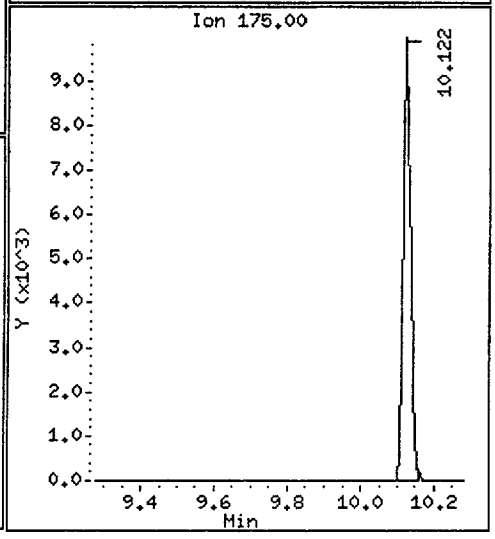


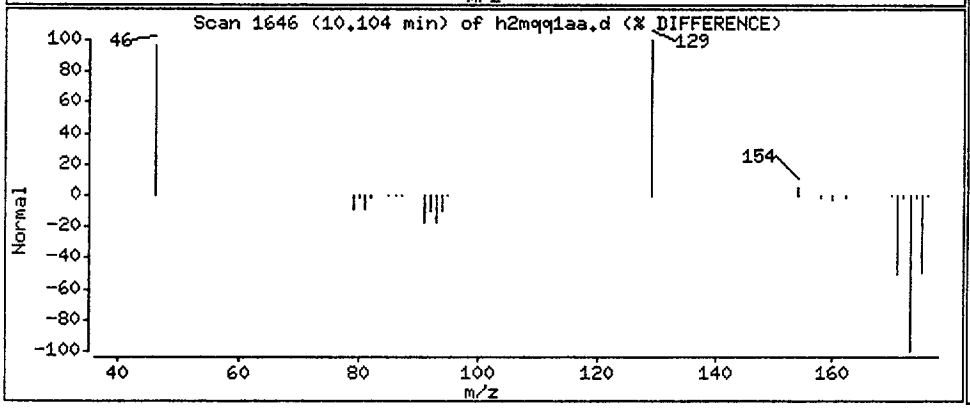












Data File: /chem/gcms/mz.i/Z040506.b/h2mqq1aa.d

Date : 05-APR-2006 15:52

Client ID: INTRA-LAB BLANK

Instrument: mz.i

Sample Info: H2MQQ1AA,1,3,,BLANK

Purge Volume: 25.0

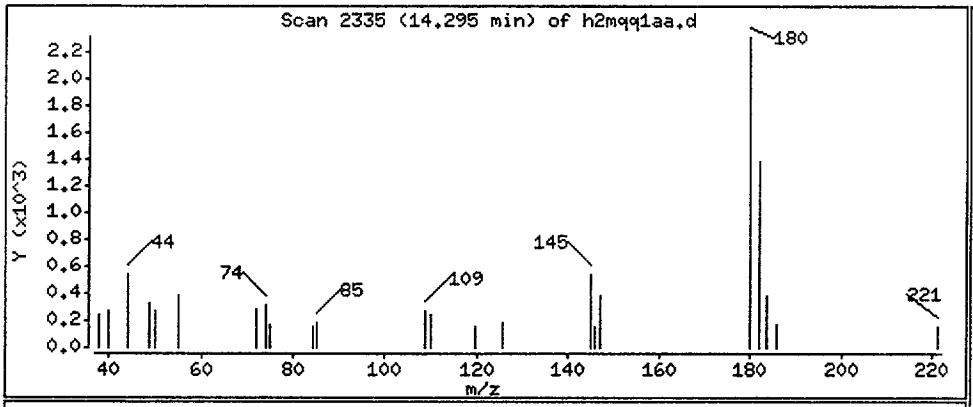
Operator: 063605

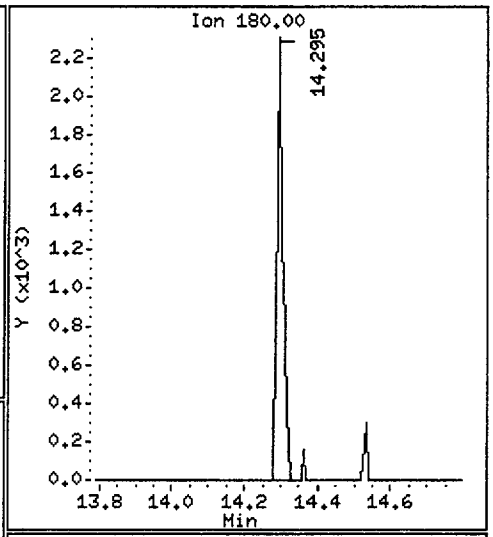
Column phase: J+W 624

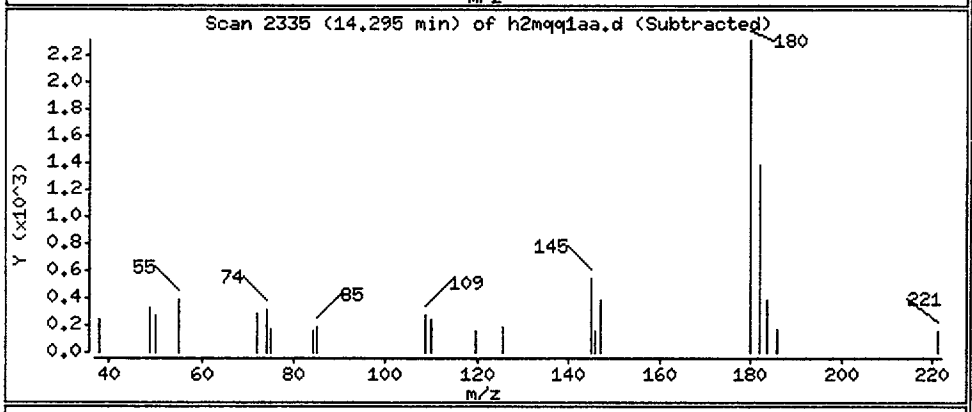
Column diameter: 0.18

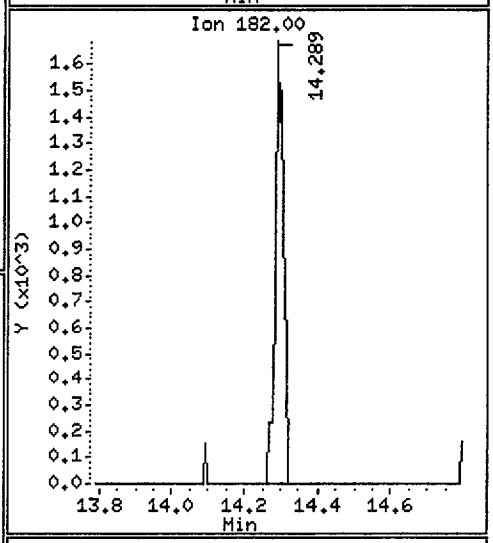
89 1,2,4-Trichlorobenzene

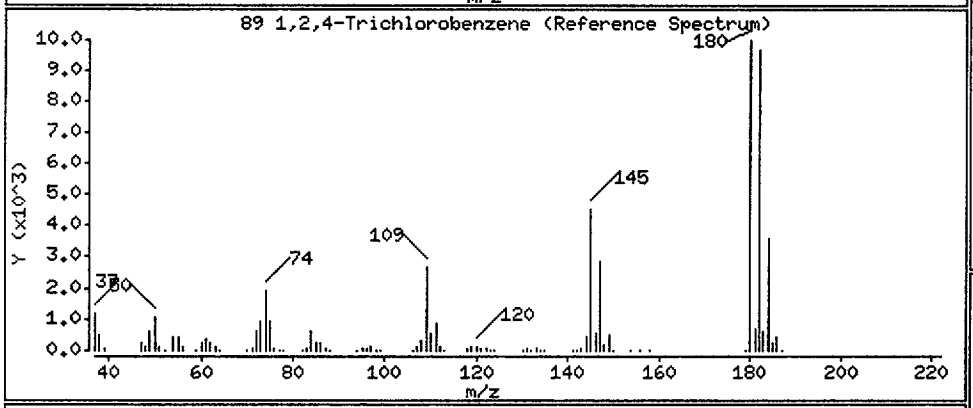
Concentration: 0.15436 ug/L

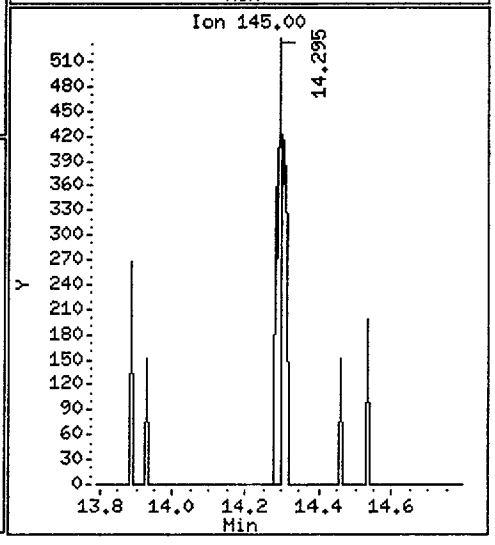


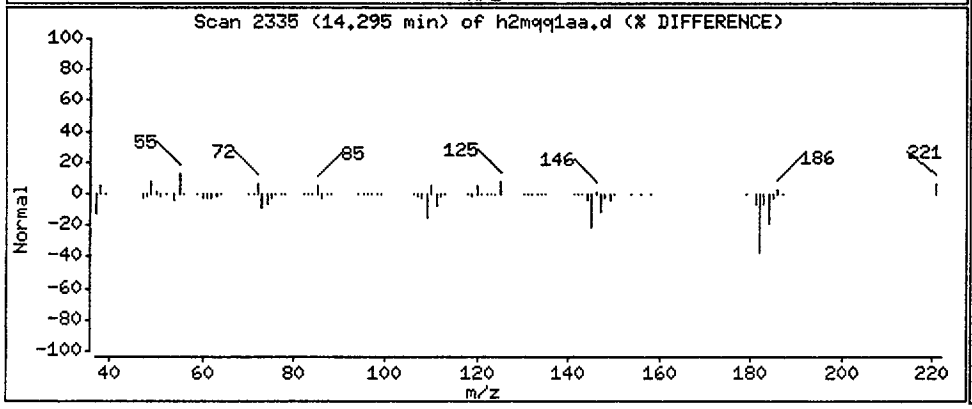












Data File: /chem/gcms/mz.i/Z040506.b/h2mqq1aa.d

Date : 05-APR-2006 15:52

Client ID: INTRA-LAB BLANK

Instrument: mz.i

Sample Info: H2MQQ1AA,1,3,,BLANK

Purge Volume: 25.0

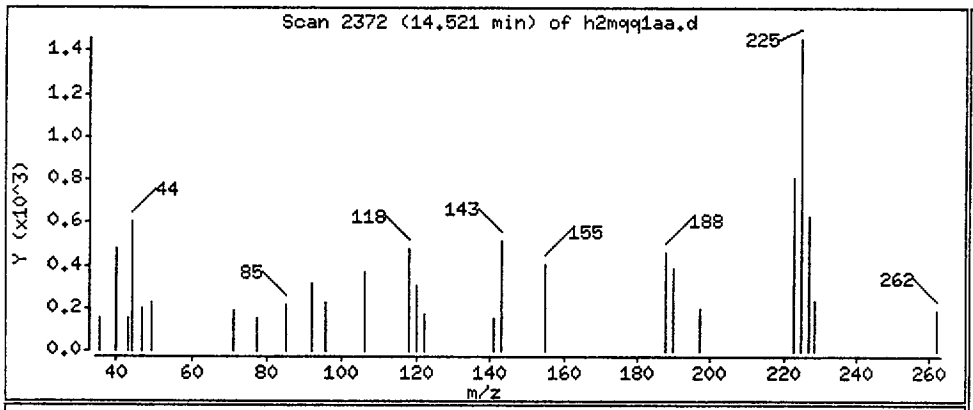
Operator: 063605

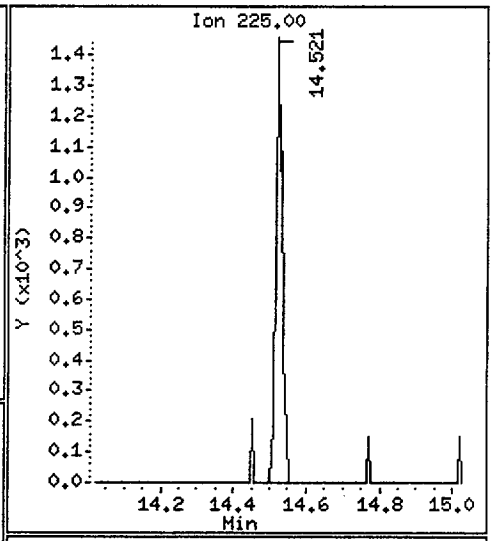
Column phase: J+W 624

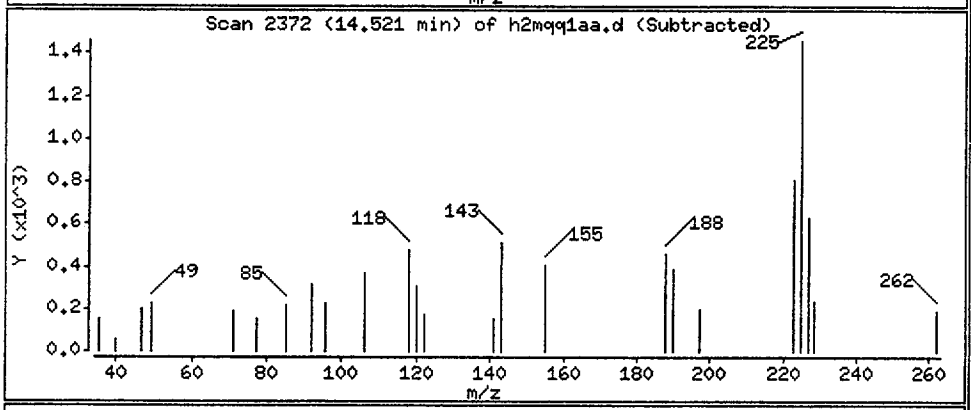
Column diameter: 0.18

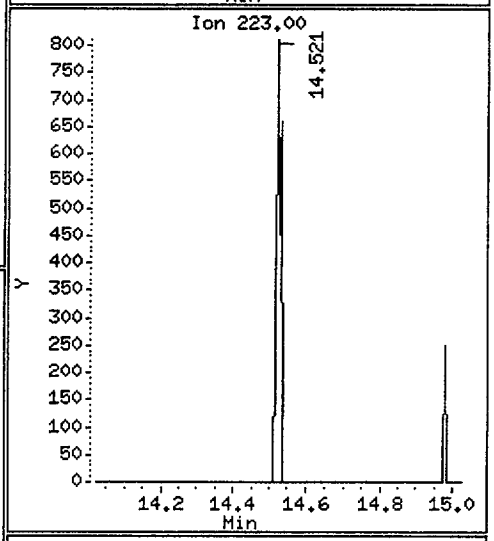
90 Hexachlorobutadiene

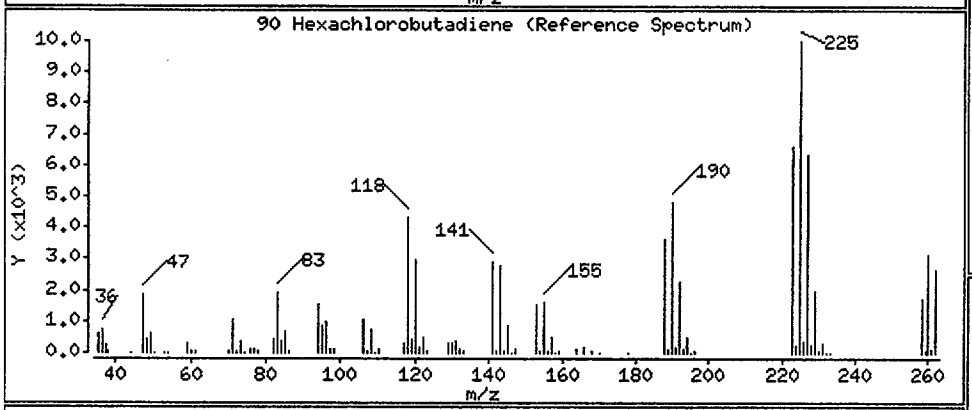
Concentration: 0.11247 ug/L

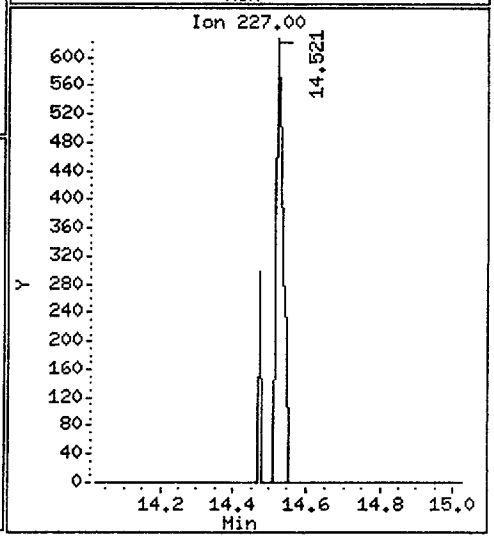


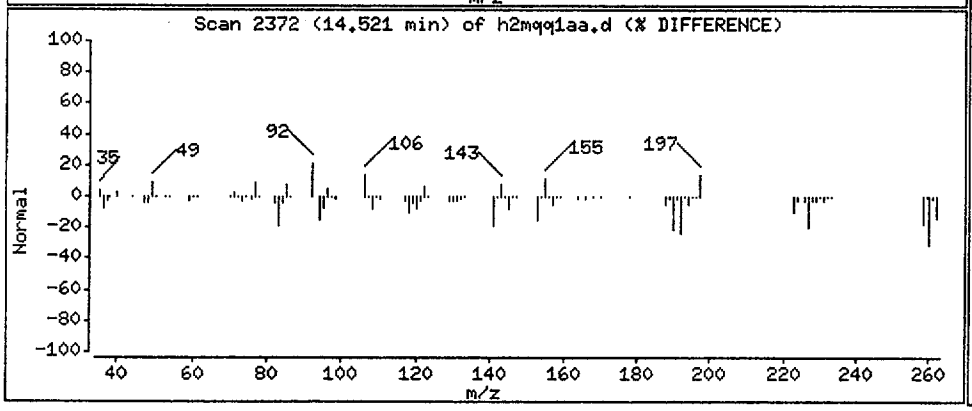












Data File: /chem/gcms/mz.i/Z040506.b/h2mqq1aa.d

Date : 05-APR-2006 15:52

Client ID: INTRA-LAB BLANK

Instrument: mz.i

Sample Info: H2MQQ1AA,1,3,,BLANK

Purge Volume: 25.0

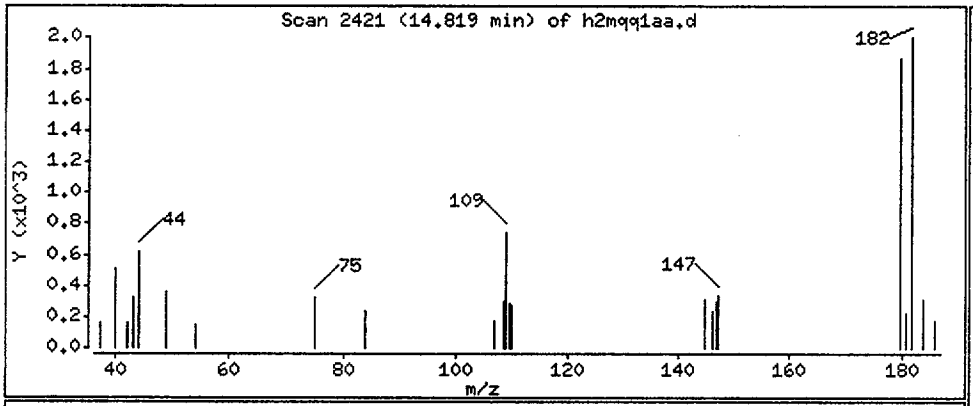
Operator: 063605

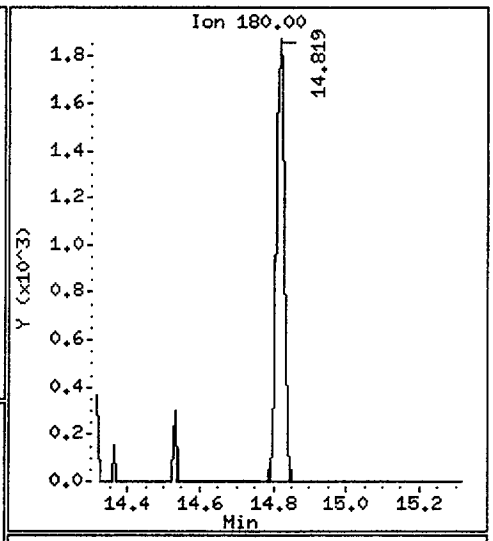
Column phase: J+W 624

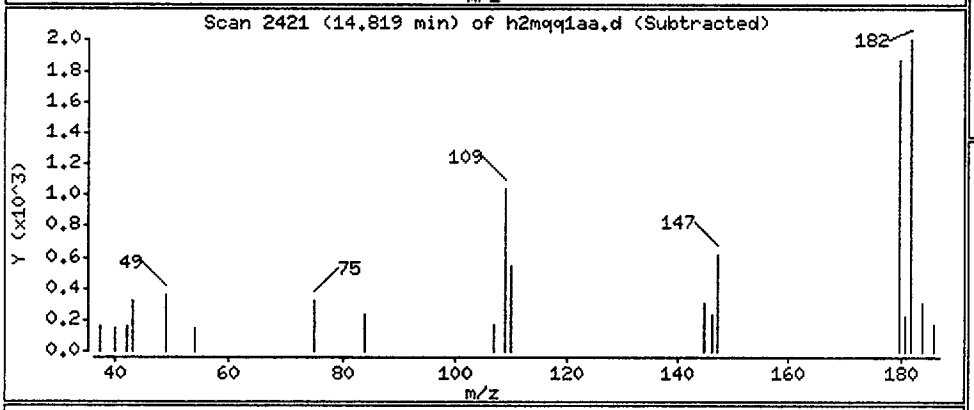
Column diameter: 0.18

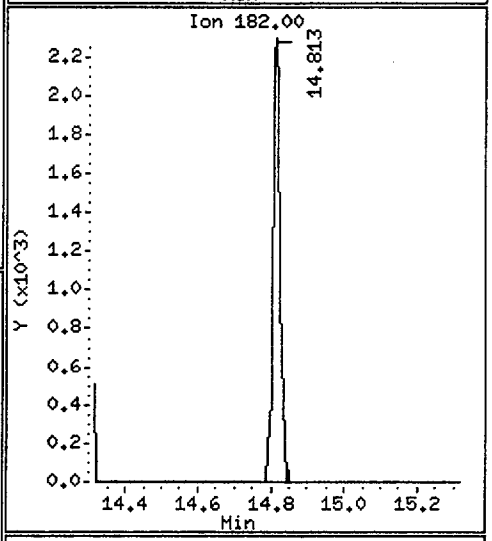
92 1,2,3-Trichlorobenzene

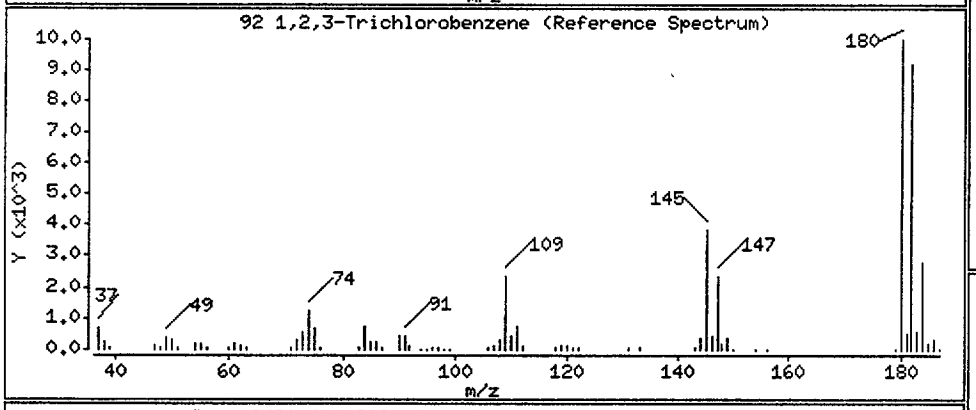
Concentration: 0.26076 ug/L

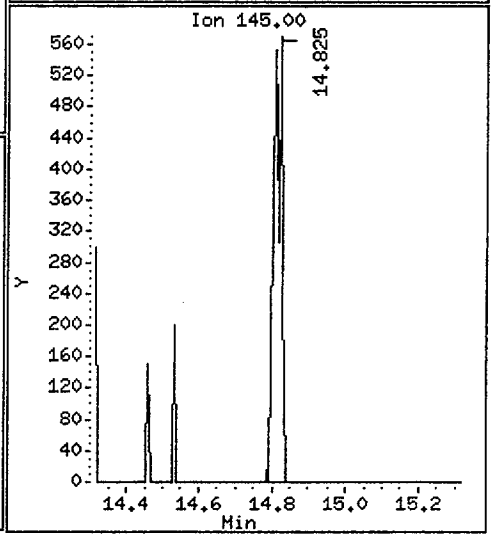


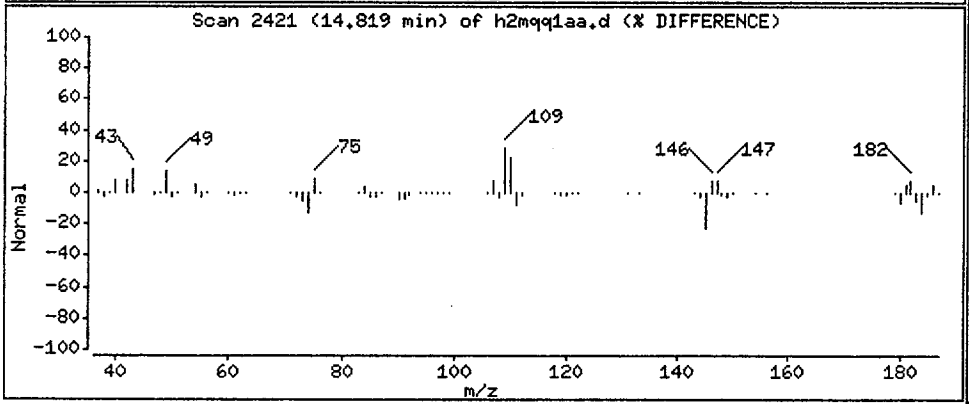












Data File: /var/chem/gcms/mz.i/Z040506.b/h2mqq1aa.d
Report Date: 06-Apr-2006 17:16

STL Knoxville

Volatile Organics by GC/MS

Data file : /var/chem/gcms/mz.i/Z040506.b/h2mqq1aa.d
Lab Smp Id: H2MQQ1AA Client Smp ID: INTRA-LAB BLANK
Inj Date : 05-APR-2006 15:52
Operator : 063605 Inst ID: mz.i
Smp Info : H2MQQ1AA,1,3,,BLANK
Misc Info : Z040506,8260B_LM,all.sub
Comment : Volatile Organics by GC/MS
Method : /var/chem/gcms/mz.i/Z040506.b/8260B_LM.m
Meth Date : 06-Apr-2006 17:11 tillerm Quant Type: ISTD
Cal Date : 24-MAR-2006 13:51 Cal File: icvzc248.d
Als bottle: 1 QC Sample: METHOD BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50
Processing Host: qmidhp01

Concentration Formula: Amt * DF * Uf*Vt/(Vo*1000) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Unit Correction factor
Vt	25000.00000	Sample Volume Purged
Vo	25.00000	Sample Volume Used

Cpnd Variable Local Compound Variable

ISTD	RT	HEIGHT	AMOUNT
* 1 Fluorobenzene	5.669	1147589	10.000

	CONCENTRATIONS			QUANT			
RT	HEIGHT	ON-COL(ug/L)	FINAL(ug/L)	QUAL	LIBRARY	LIB ENTRY	CPND #
Carbon dioxide			CAS #: 124-38-9				
0.918	503742	4.38956804	4.3896	5	NIST05.1	80	1

MTA 4/6/06

Data File: /var/chem/gcms/mz.i/Z040506.b/h2mqq1aa.d

Date : 05-APR-2006 15:52

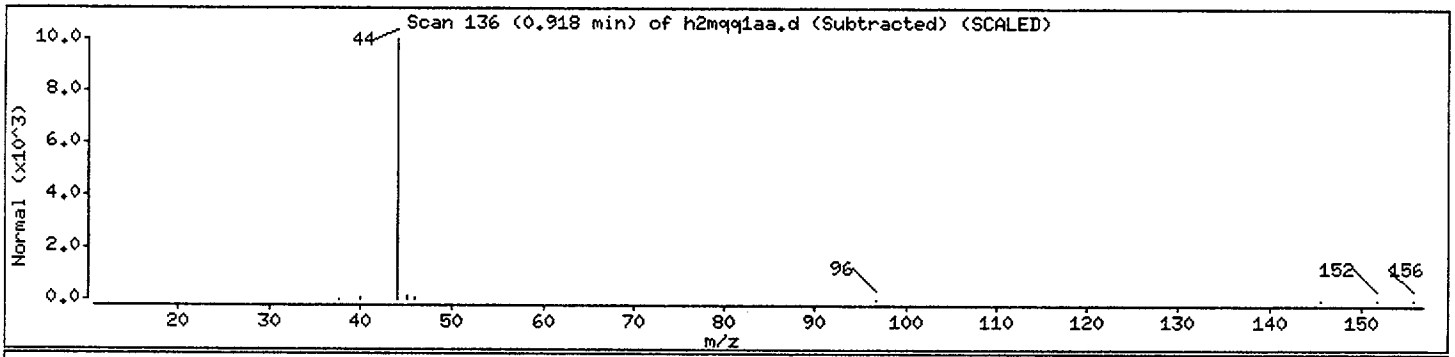
Client ID: INTRA-LAB BLANK Instrument: mz.i

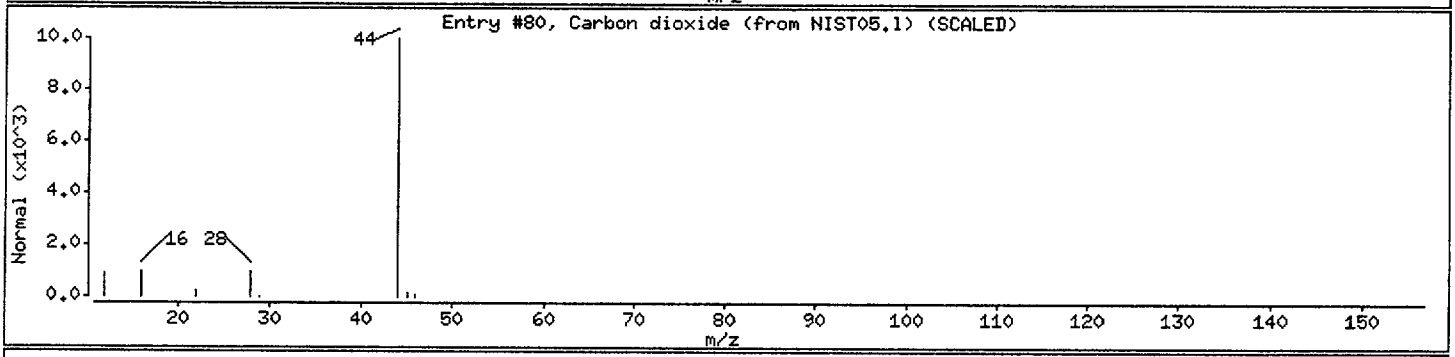
Sample Info: H2MQQ1AA,1,3,,BLANK

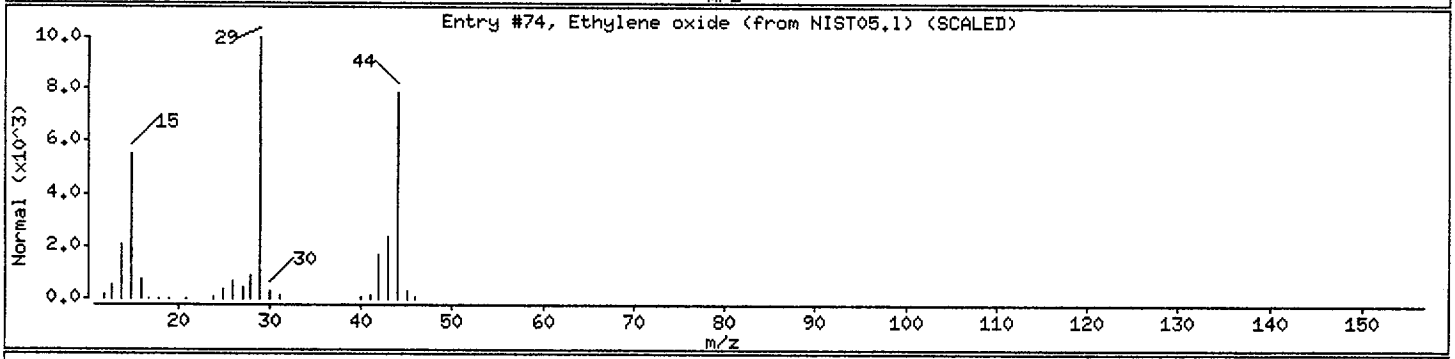
Purge Volume: 25.0 Operator: 063605

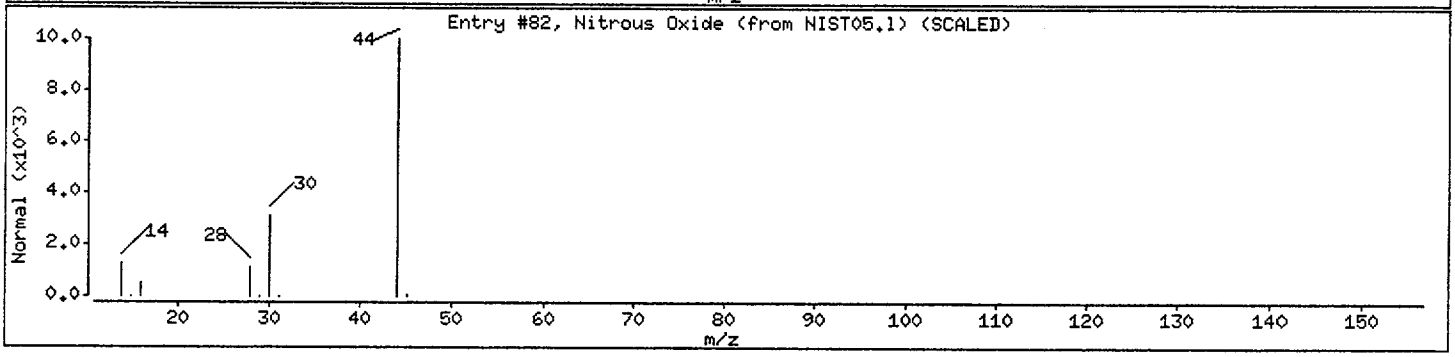
Column phase: J+W 624 Column diameter: 0.18

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Carbon dioxide	124-38-9	NIST05.l	80	5	CO2	44
Ethylene oxide	75-21-8	NIST05.l	74	3	C2H4O	44
Nitrous Oxide	10024-97-2	NIST05.l	82	3	N2O	44









LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: H6D030205 **Work Order #...:** H2MQQ1AC **Matrix.....:** WATER
LCS Lot-Sample#: H6D050000-253
Prep Date.....: 04/05/06 **Analysis Date..:** 04/05/06
Prep Batch #...: 6095253
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Acetone	47 a	(49 - 141)	SW846 8260B
Benzene	**87**	**(80 - 121)**	**SW846 8260B**
Bromobenzene	94	(80 - 122)	SW846 8260B
Bromochloromethane	97	(75 - 124)	SW846 8260B
Bromodichloromethane	91	(73 - 127)	SW846 8260B
Bromoform	96	(63 - 141)	SW846 8260B
Bromomethane	96	(44 - 157)	SW846 8260B
2-Butanone	86	(61 - 139)	SW846 8260B
n-Butylbenzene	93	(62 - 128)	SW846 8260B
sec-Butylbenzene	94	(67 - 127)	SW846 8260B
tert-Butylbenzene	96	(68 - 123)	SW846 8260B
Carbon disulfide	89	(71 - 126)	SW846 8260B
Carbon tetrachloride	82	(66 - 133)	SW846 8260B
Chlorobenzene	**94**	**(80 - 121)**	**SW846 8260B**
Chlorodibromomethane	88	(71 - 132)	SW846 8260B
Chloroethane	99	(61 - 151)	SW846 8260B
Chloroform	93	(76 - 120)	SW846 8260B
Chloromethane	101	(56 - 140)	SW846 8260B
2-Chlorotoluene	90	(68 - 123)	SW846 8260B
4-Chlorotoluene	93	(68 - 125)	SW846 8260B
1,2-Dibromo-3-chloro-propane	83	(51 - 143)	SW846 8260B
1,2-Dibromoethane	90	(78 - 120)	SW846 8260B
Dibromomethane	91	(72 - 125)	SW846 8260B
1,2-Dichlorobenzene	91	(76 - 120)	SW846 8260B
1,3-Dichlorobenzene	92	(77 - 120)	SW846 8260B
1,4-Dichlorobenzene	92	(75 - 120)	SW846 8260B
Dichlorodifluoromethane	95	(48 - 147)	SW846 8260B
1,1-Dichloroethane	93	(70 - 127)	SW846 8260B
1,2-Dichloroethane	93	(71 - 125)	SW846 8260B
cis-1,2-Dichloroethene	91	(76 - 123)	SW846 8260B
trans-1,2-Dichloroethene	93	(75 - 124)	SW846 8260B
1,1-Dichloroethene	**100**	**(70 - 128)**	**SW846 8260B**
1,2-Dichloropropane	93	(77 - 122)	SW846 8260B

(Continued on next page)

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: H6D030205 **Work Order #...:** H2MQQ1AC **Matrix.....:** WATER
LCS Lot-Sample#: H6D050000-253

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
1,3-Dichloropropane	90	(78 - 120)	SW846 8260B
2,2-Dichloropropane	89	(48 - 149)	SW846 8260B
cis-1,3-Dichloropropene	90	(69 - 128)	SW846 8260B
trans-1,3-Dichloropropene	84	(61 - 132)	SW846 8260B
1,1-Dichloropropene	91	(78 - 122)	SW846 8260B
Ethylbenzene	94	(79 - 124)	SW846 8260B
Hexachlorobutadiene	98	(67 - 123)	SW846 8260B
2-Hexanone	93	(63 - 132)	SW846 8260B
Isopropylbenzene	96	(77 - 126)	SW846 8260B
p-Isopropyltoluene	96	(67 - 125)	SW846 8260B
Methylene chloride	88	(59 - 131)	SW846 8260B
4-Methyl-2-pentanone	91	(64 - 133)	SW846 8260B
Naphthalene	86	(48 - 141)	SW846 8260B
n-Propylbenzene	95	(67 - 128)	SW846 8260B
Styrene	93	(76 - 127)	SW846 8260B
1,1,1,2-Tetrachloroethane	84	(75 - 127)	SW846 8260B
1,1,2,2-Tetrachloroethane	94	(69 - 128)	SW846 8260B
Tetrachloroethene	94	(79 - 126)	SW846 8260B
Toluene	**93**	**(77 - 124)**	**SW846 8260B**
1,2,3-Trichlorobenzene	89	(63 - 127)	SW846 8260B
1,2,4-Trichloro-benzene	88	(64 - 126)	SW846 8260B
1,1,1-Trichloroethane	96	(71 - 125)	SW846 8260B
1,1,2-Trichloroethane	88	(74 - 120)	SW846 8260B
Trichloroethene	**96**	**(80 - 121)**	**SW846 8260B**
Trichlorofluoromethane	101	(67 - 143)	SW846 8260B
1,2,3-Trichloropropane	88	(67 - 124)	SW846 8260B
1,2,4-Trimethylbenzene	92	(69 - 121)	SW846 8260B
1,3,5-Trimethylbenzene	95	(71 - 125)	SW846 8260B
Vinyl chloride	102	(72 - 137)	SW846 8260B
m-Xylene & p-Xylene	98	(71 - 134)	SW846 8260B
o-Xylene	96	(76 - 126)	SW846 8260B
Xylenes (total)	97	(73 - 130)	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	110	(79 - 120)

(Continued on next page)

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: H6D030205 **Work Order #...:** H2MQQ1AC **Matrix.....:** WATER
LCS Lot-Sample#: H6D050000-253

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	102	(71 - 127)
Toluene-d8	104	(80 - 120)
Bromofluorobenzene	93	(69 - 126)

NOTE(S):

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

Bold print denotes control parameters

a Spiked analyte recovery is outside stated control limits.

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: H6D030205 **Work Order #...:** H2MQQ1AC **Matrix.....:** WATER
LCS Lot-Sample#: H6D050000-253
Prep Date.....: 04/05/06 **Analysis Date..:** 04/05/06
Prep Batch #...: 6095253
Dilution Factor: 1

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
Acetone	40.0	18.9 a	ug/L	47	SW846 8260B
Benzene	**10.0**	**8.71**	**ug/L**	**87**	**SW846 8260B**
Bromobenzene	10.0	9.44	ug/L	94	SW846 8260B
Bromochloromethane	10.0	9.75	ug/L	97	SW846 8260B
Bromodichloromethane	10.0	9.08	ug/L	91	SW846 8260B
Bromoform	10.0	9.64	ug/L	96	SW846 8260B
Bromomethane	10.0	9.58	ug/L	96	SW846 8260B
2-Butanone	40.0	34.5	ug/L	86	SW846 8260B
n-Butylbenzene	10.0	9.32	ug/L	93	SW846 8260B
sec-Butylbenzene	10.0	9.41	ug/L	94	SW846 8260B
tert-Butylbenzene	10.0	9.59	ug/L	96	SW846 8260B
Carbon disulfide	10.0	8.90	ug/L	89	SW846 8260B
Carbon tetrachloride	10.0	8.18	ug/L	82	SW846 8260B
Chlorobenzene	**10.0**	**9.44**	**ug/L**	**94**	**SW846 8260B**
Chlorodibromomethane	10.0	8.82	ug/L	88	SW846 8260B
Chloroethane	10.0	9.89	ug/L	99	SW846 8260B
Chloroform	10.0	9.30	ug/L	93	SW846 8260B
Chloromethane	10.0	10.1	ug/L	101	SW846 8260B
2-Chlorotoluene	10.0	8.98	ug/L	90	SW846 8260B
4-Chlorotoluene	10.0	9.35	ug/L	93	SW846 8260B
1,2-Dibromo-3-chloro-propane	10.0	8.34	ug/L	83	SW846 8260B
1,2-Dibromoethane	10.0	9.00	ug/L	90	SW846 8260B
Dibromomethane	10.0	9.12	ug/L	91	SW846 8260B
1,2-Dichlorobenzene	10.0	9.14	ug/L	91	SW846 8260B
1,3-Dichlorobenzene	10.0	9.19	ug/L	92	SW846 8260B
1,4-Dichlorobenzene	10.0	9.24	ug/L	92	SW846 8260B
Dichlorodifluoromethane	10.0	9.50	ug/L	95	SW846 8260B
1,1-Dichloroethane	10.0	9.28	ug/L	93	SW846 8260B
1,2-Dichloroethane	10.0	9.27	ug/L	93	SW846 8260B
cis-1,2-Dichloroethene	10.0	9.13	ug/L	91	SW846 8260B
trans-1,2-Dichloroethene	10.0	9.30	ug/L	93	SW846 8260B
1,1-Dichloroethene	**10.0**	**10.0**	**ug/L**	**100**	**SW846 8260B**
1,2-Dichloropropane	10.0	9.25	ug/L	93	SW846 8260B

(Continued on next page)

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: H6D030205 **Work Order #...:** H2MQQ1AC **Matrix.....:** WATER
LCS Lot-Sample#: H6D050000-253

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
1,3-Dichloropropane	10.0	8.98	ug/L	90	SW846 8260B
2,2-Dichloropropane	10.0	8.90	ug/L	89	SW846 8260B
cis-1,3-Dichloropropene	10.0	9.01	ug/L	90	SW846 8260B
trans-1,3-Dichloropropene	10.0	8.38	ug/L	84	SW846 8260B
1,1-Dichloropropene	10.0	9.08	ug/L	91	SW846 8260B
Ethylbenzene	10.0	9.45	ug/L	94	SW846 8260B
Hexachlorobutadiene	10.0	9.81	ug/L	98	SW846 8260B
2-Hexanone	40.0	37.3	ug/L	93	SW846 8260B
Isopropylbenzene	10.0	9.58	ug/L	96	SW846 8260B
p-Isopropyltoluene	10.0	9.57	ug/L	96	SW846 8260B
Methylene chloride	10.0	8.77	ug/L	88	SW846 8260B
4-Methyl-2-pentanone	40.0	36.4	ug/L	91	SW846 8260B
Naphthalene	10.0	8.59	ug/L	86	SW846 8260B
n-Propylbenzene	10.0	9.46	ug/L	95	SW846 8260B
Styrene	10.0	9.26	ug/L	93	SW846 8260B
1,1,1,2-Tetrachloroethane	10.0	8.41	ug/L	84	SW846 8260B
1,1,2,2-Tetrachloroethane	10.0	9.38	ug/L	94	SW846 8260B
Tetrachloroethene	10.0	9.37	ug/L	94	SW846 8260B
Toluene	**10.0**	**9.29**	**ug/L**	**93**	**SW846 8260B**
1,2,3-Trichlorobenzene	10.0	8.87	ug/L	89	SW846 8260B
1,2,4-Trichloro-benzene	10.0	8.83	ug/L	88	SW846 8260B
1,1,1-Trichloroethane	10.0	9.64	ug/L	96	SW846 8260B
1,1,2-Trichloroethane	10.0	8.83	ug/L	88	SW846 8260B
Trichloroethene	**10.0**	**9.56**	**ug/L**	**96**	**SW846 8260B**
Trichlorofluoromethane	10.0	10.1	ug/L	101	SW846 8260B
1,2,3-Trichloropropane	10.0	8.77	ug/L	88	SW846 8260B
1,2,4-Trimethylbenzene	10.0	9.17	ug/L	92	SW846 8260B
1,3,5-Trimethylbenzene	10.0	9.55	ug/L	95	SW846 8260B
Vinyl chloride	10.0	10.2	ug/L	102	SW846 8260B
m-Xylene & p-Xylene	20.0	19.5	ug/L	98	SW846 8260B
o-Xylene	10.0	9.58	ug/L	96	SW846 8260B
Xylenes (total)	30.0	29.1	ug/L	97	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	110	(79 - 120)

(Continued on next page)

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: H6D030205 **Work Order #...:** H2MQQ1AC **Matrix.....:** WATER
LCS Lot-Sample#: H6D050000-253

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	102	(71 - 127)
Toluene-d8	104	(80 - 120)
Bromofluorobenzene	93	(69 - 126)

NOTE(S):

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

Bold print denotes control parameters

a Spiked analyte recovery is outside stated control limits.

Data File: /chem/gcms/mz.i/Z040506.b/h2mqq1ac.d
Report Date: 05-Apr-2006 15:23

STL Knoxville

Volatile Organics by GC/MS

Data file : /chem/gcms/mz.i/Z040506.b/h2mqq1ac.d
Lab Smp Id: H2MQQ1AC Client Smp ID: INTRA-LAB CHECK
Inj Date : 05-APR-2006 15:05
Operator : 063605 Inst ID: mz.i
Smp Info : H2MQQ1AC,1,3,,LCS
Misc Info : Z040506,8260B_LM,1-all.sub
Comment : Volatile Organics by GC/MS
Method : /var/chem/gcms/mz.i/Z040506.b/8260B_LM.m
Meth Date : 05-Apr-2006 15:00 chemist Quant Type: ISTD
Cal Date : 24-MAR-2006 13:51 Cal File: icvzc248.d
Als bottle: 1 QC Sample: METHOD SPIKE
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 1-all.sub
Target Version: 3.50
Processing Host: qmidhp01

Concentration Formula: Amt * DF * Uf*Vt/(Vo*1000) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Unit Correction factor
Vt	25000.00000	Sample Volume Purged
Vo	25.00000	Sample Volume Used

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
* 1 Fluorobenzene	96	5.668	5.667	(1.000)	1035143	10.0000	
* 2 Chlorobenzene-d5	119	8.929	8.933	(1.000)	183392	10.0000	
* 3 1,4 Dichlorobenzene-d4	152	11.484	11.488	(1.000)	224968	10.0000	
$ 5 1,2-Dichloroethane-d4	65	5.236	5.229	(0.924)	146622	10.2223	10.222
$ 4 Dibromofluoromethane	113	4.823	4.821	(0.851)	182064	10.9765	10.976
$ 6 Toluene-d8	98	7.457	7.455	(0.835)	838957	10.4116	10.412
$ 7 4-Bromofluorobenzene	95	10.121	10.126	(0.881)	211877	9.33871	9.3387
10 Dichlorodifluoromethane	85	1.014	1.013	(0.179)	240135	9.50365	9.5036
11 Chloromethane (spcc)	50	1.124	1.122	(0.198)	617175	10.0776	10.078
12 Vinyl Chloride (ccc)	62	1.197	1.195	(0.211)	416466	10.2149	10.215
15 Bromomethane	94	1.410	1.414	(0.249)	96598	9.58188	9.5819
16 Chloroethane	64	1.483	1.481	(0.262)	191004	9.89385	9.8938
18 Trichlorofluoromethane	101	1.671	1.670	(0.295)	321024	10.1464	10.146
20 1,1-Dichloroethene (ccc)	96	2.067	2.065	(0.365)	225922	10.0420	10.042

Data File: /chem/gcms/mz.i/Z040506.b/h2mqq1ac.d
Report Date: 05-Apr-2006 15:23

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)
	22 Acetone	43	2.122	2.126	(0.374)	56689	18.8897	18.890(R)
	24 Carbon Disulfide	76	2.231	2.229	(0.394)	706562	8.89713	8.8971
	27 Methylene Chloride	84	2.511	2.503	(0.443)	151747	8.76534	8.7653
	30 trans-1,2-Dichloroethene	96	2.791	2.789	(0.492)	264151	9.30100	9.3010
	33 1,1-Dichloroethane (spcc)	63	3.277	3.276	(0.578)	608884	9.27521	9.2752
	35 2,2-Dichloropropane	77	4.093	4.091	(0.722)	296693	8.89542	8.8954
	36 cis 1,2-Dichloroethene	96	4.117	4.109	(0.726)	239248	9.12641	9.1264
M	8 1,2-Dichloroethene (total)	96				503400	18.4274	18.427
	37 2-Butanone	43	4.172	4.170	(0.736)	135317	34.4997	34.500
	38 Bromochloromethane	128	4.458	4.450	(0.786)	70268	9.74821	9.7482
	40 Chloroform (ccc)	83	4.610	4.608	(0.813)	347975	9.30381	9.3038
	41 1,1,1-Trichloroethane	97	4.811	4.809	(0.849)	319179	9.64175	9.6417
	42 Carbon Tetrachloride	117	5.036	5.028	(0.888)	216780	8.18209	8.1821
	43 1,1-Dichloropropene	75	5.048	5.046	(0.891)	322265	9.08496	9.0850
	44 Benzene	78	5.297	5.295	(0.935)	889009	8.70884	8.7088
	45 1,2-Dichloroethane	62	5.328	5.326	(0.940)	200362	9.26898	9.2690
	46 Trichloroethene	130	6.112	6.105	(1.078)	274457	9.55792	9.5579
	47 1,2-Dichloropropane (ccc)	63	6.344	6.342	(1.119)	257999	9.25034	9.2503
	49 Dibromomethane	93	6.471	6.470	(1.142)	52994	9.12424	9.1242
	50 Bromodichloromethane	83	6.684	6.683	(1.179)	161718	9.08436	9.0844
	52 cis-1,3-Dichloropropene	75	7.183	7.181	(1.267)	204076	9.01121	9.0112
	53 4-Methyl-2-pentanone	43	7.378	7.376	(1.302)	328918	36.3861	36.386
	54 Toluene (ccc)	91	7.524	7.522	(0.843)	969142	9.28568	9.2857
	55 trans-1,3-Dichloropropene	75	7.785	7.784	(0.872)	129422	8.38372	8.3837
	57 1,1,2-Trichloroethane	97	7.962	7.960	(0.892)	74762	8.82570	8.8257
	58 Tetrachloroethene	164	8.096	8.094	(0.907)	202739	9.36527	9.3653
	59 1,3-Dichloropropane	76	8.120	8.118	(0.909)	133322	8.97904	8.9790
	60 2-Hexanone	43	8.254	8.252	(0.924)	211646	37.2935	37.294
	61 Chlorodibromomethane	129	8.345	8.349	(0.935)	77704	8.81710	8.8171
	62 1,2-Dibromoethane	107	8.436	8.435	(0.945)	68281	9.00115	9.0012
	63 Chlorobenzene (spcc)	112	8.959	8.958	(1.003)	549623	9.43511	9.4351
	65 Ethylbenzene (ccc)	106	9.093	9.092	(1.018)	354701	9.44990	9.4499
	64 1,1,1,2-Tetrachloroethane	131	9.057	9.055	(1.014)	122625	8.41091	8.4109
	66 m&p-Xylene	106	9.221	9.219	(1.033)	885262	19.5093	19.509
	67 o-Xylene	106	9.610	9.609	(1.076)	383906	9.57884	9.5788
M	9 Xylene (total)	106				1269169	29.0881	29.088
	68 Styrene	104	9.623	9.621	(1.078)	520803	9.25528	9.2553
	69 Bromoform (spcc)	173	9.781	9.779	(1.095)	26972	9.64340	9.6434
	70 Isopropylbenzene	105	9.988	9.992	(1.119)	1103817	9.57808	9.5781
	72 Bromobenzene	156	10.249	10.254	(1.148)	161624	9.43675	9.4367
	73 1,1,2,2-Tetrachloroethane(sp)	83	10.292	10.290	(1.153)	59258	9.37779	9.3778
	74 1,2,3-Trichloropropane	110	10.316	10.314	(0.898)	16988	8.77130	8.7713
	76 n-Propylbenzene	91	10.407	10.406	(0.906)	1288753	9.46431	9.4643
	77 2-Chlorotoluene	91	10.474	10.473	(0.912)	648530	8.98047	8.9805
	78 1,3,5-Trimethylbenzene	105	10.614	10.612	(0.924)	874575	9.54535	9.5454
	79 4-Chlorotoluene	91	10.596	10.594	(0.923)	717068	9.34694	9.3469
	80 tert-Butylbenzene	119	10.991	10.990	(0.957)	786940	9.59280	9.5928

Data File: /chem/gcms/mz.i/Z040506.b/h2mqq1ac.d
Report Date: 05-Apr-2006 15:23

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
81 1,2,4-Trimethylbenzene	105	11.052	11.050	(0.962)	789212	9.16804	9.1680
82 sec-Butylbenzene	105	11.277	11.282	(0.982)	1137418	9.40606	9.4061
83 1,3-Dichlorobenzene	146	11.387	11.385	(0.992)	361908	9.19015	9.1901
84 p-Isopropyltoluene	119	11.502	11.501	(1.002)	1015261	9.56850	9.5685
85 1,4-Dichlorobenzene	146	11.521	11.519	(1.003)	338463	9.23997	9.2400
86 1,2-Dichlorobenzene	146	12.074	12.079	(1.051)	265604	9.14204	9.1420
87 n-Butylbenzene	91	12.141	12.145	(1.057)	884715	9.32250	9.3225
88 1,2-Dibromo-3-chloropropane	157	13.260	13.253	(1.155)	8547	8.34051	8.3405
89 1,2,4-Trichlorobenzene	180	14.295	14.293	(1.245)	155560	8.83434	8.8343
90 Hexachlorobutadiene	225	14.526	14.524	(1.265)	162016	9.81116	9.8112
91 Napthalene	128	14.544	14.542	(1.266)	158654	8.59178	8.5918
92 1,2,3-Trichlorobenzene	180	14.818	14.816	(1.290)	102934	8.87398	8.8740

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

Data File: /chem/gcms/mz.i/Z040506.b/h2mqq1ac.d
Report Date: 05-Apr-2006 15:23

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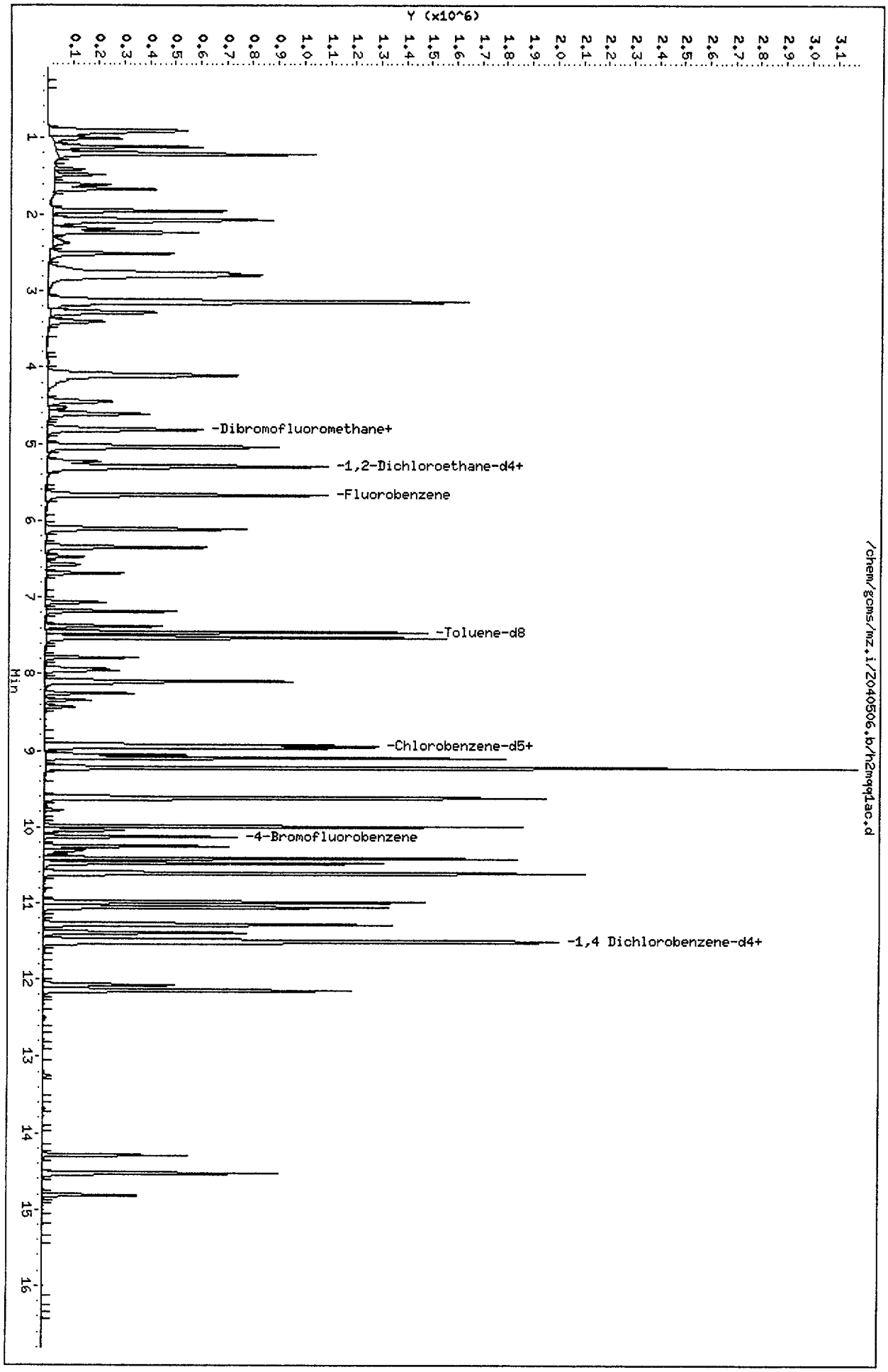
INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: mz.i
Lab File ID: h2mqq1ac.d
Lab Smp Id: H2MQQ1AC
Analysis Type: VOA
Quant Type: ISTD
Operator: 063605
Calibration Date: 05-APR-2006
Calibration Time: 14:42
Client Smp ID: INTRA-LAB CHECK
Level: LOW
Sample Type: WATER
Method File: /var/chem/gcms/mz.i/Z040506.b/8260B_LM.m
Misc Info: Z040506,8260B_LM,1-all.sub

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	1078707	539354	2157414	1035143	-4.04
2 Chlorobenzene-d5	188899	94450	377798	183392	-2.92
3 1,4 Dichlorobenze	220143	110072	440286	224968	2.19

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	5.67	5.17	6.17	5.67	0.03
2 Chlorobenzene-d5	8.93	8.43	9.43	8.93	-0.05
3 1,4 Dichlorobenze	11.49	10.99	11.99	11.48	-0.04

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


Data File: /chem/gcms/mz.i/Z040506.b/h2mqq1ac.d
Date : 05-APR-2006 15:05
Client ID: INTRA-LAB CHECK
Sample Info: H2MQQ1AC,1.3,,LCS
Purge Volume: 25.0
Column phase: J+W 624
Instrument: mz.i
Operator: 063605
Column diameter: 0.18
Y (x10^6)
Min
-Dibromofluoromethane+
-1,2-Dichloroethane-d4+
-Fluorobenzene
-Toluene-d8
-Chlorobenzene-d5+
-4-Bromofluorobenzene
-1,4 Dichlorobenzene-d4+
/chem/gcms/mz.i/Z040506.b/h2mqq1ac.d

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: H6D030205 **Work Order #...:** H2HPA1AC-MS **Matrix.....:** WATER
MS Lot-Sample #: H6D030205-002 H2HPA1AD-MSD
Date Sampled...: 03/28/06 **Date Received..:** 04/02/06
Prep Date.....: 04/05/06 **Analysis Date..:** 04/05/06
Prep Batch #...: 6095253
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Acetone	78	(43 - 141)			SW846 8260B
	85	(43 - 141)	8.9	(0-50)	SW846 8260B
Acrylonitrile	103	(50 - 130)			SW846 8260B
	97	(50 - 130)	5.2	(0-30)	SW846 8260B
Benzene	**80**	**(73 - 125)**			**SW846 8260B**
	67 a	**(73 - 125)**	**18**	**(0-20)**	**SW846 8260B**
Bromobenzene	60 a	(77 - 122)			SW846 8260B
	43 a,p	(77 - 122)	33	(0-20)	SW846 8260B
Bromochloromethane	100	(73 - 124)			SW846 8260B
	90	(73 - 124)	10	(0-21)	SW846 8260B
Bromodichloromethane	93	(57 - 129)			SW846 8260B
	88	(57 - 129)	5.9	(0-22)	SW846 8260B
Bromoform	83	(49 - 141)			SW846 8260B
	82	(49 - 141)	0.43	(0-27)	SW846 8260B
Bromomethane	90	(30 - 168)			SW846 8260B
	89	(30 - 168)	1.7	(0-29)	SW846 8260B
2-Butanone	96	(50 - 143)			SW846 8260B
	88	(50 - 143)	8.5	(0-37)	SW846 8260B
n-Butylbenzene	23 a	(48 - 135)			SW846 8260B
	13 a,p	(48 - 135)	57	(0-21)	SW846 8260B
sec-Butylbenzene	41 a	(52 - 135)			SW846 8260B
	26 a,p	(52 - 135)	44	(0-20)	SW846 8260B
tert-Butylbenzene	56	(54 - 130)			SW846 8260B
	39 a,p	(54 - 130)	36	(0-20)	SW846 8260B
Carbon disulfide	84	(60 - 132)			SW846 8260B
	75	(60 - 132)	11	(0-20)	SW846 8260B
Carbon tetrachloride	68	(53 - 133)			SW846 8260B
	69	(53 - 133)	1.4	(0-29)	SW846 8260B
Chlorobenzene	**66 a**	**(71 - 125)**			**SW846 8260B**
	48 a,p	**(71 - 125)**	**32**	**(0-20)**	**SW846 8260B**
Chlorodibromomethane	73	(61 - 132)			SW846 8260B
	76	(61 - 132)	3.7	(0-27)	SW846 8260B
Chloroethane	106	(61 - 151)			SW846 8260B
	98	(61 - 151)	8.2	(0-20)	SW846 8260B
Chloroform	97	(66 - 122)			SW846 8260B
	88	(66 - 122)	9.4	(0-20)	SW846 8260B
Chloromethane	106	(46 - 140)			SW846 8260B
	97	(46 - 140)	8.9	(0-20)	SW846 8260B
2-Chlorotoluene	47 a	(55 - 131)			SW846 8260B
	29 a,p	(55 - 131)	47	(0-20)	SW846 8260B

(Continued on next page)

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: H6D030205 **Work Order #...:** H2HPA1AC-MS **Matrix.....:** WATER
MS Lot-Sample #: H6D030205-002 H2HPA1AD-MSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
4-Chlorotoluene	42 a	(55 - 133)			SW846 8260B
	26 a,p	(55 - 133)	49	(0-20)	SW846 8260B
1,2-Dibromo-3-chloro-propane	67	(41 - 143)			SW846 8260B
	52	(41 - 143)	24	(0-38)	SW846 8260B
1,2-Dibromoethane	89	(65 - 123)			SW846 8260B
	79	(65 - 123)	12	(0-20)	SW846 8260B
Dibromomethane	98	(64 - 126)			SW846 8260B
	86	(64 - 126)	13	(0-21)	SW846 8260B
1,2-Dichlorobenzene	44 a	(66 - 123)			SW846 8260B
	27 a,p	(66 - 123)	50	(0-20)	SW846 8260B
1,3-Dichlorobenzene	39 a	(67 - 123)			SW846 8260B
	23 a,p	(67 - 123)	52	(0-20)	SW846 8260B
1,4-Dichlorobenzene	38 a	(65 - 126)			SW846 8260B
	22 a,p	(65 - 126)	55	(0-20)	SW846 8260B
Dichlorodifluoromethane	85	(32 - 151)			SW846 8260B
	81	(32 - 151)	4.9	(0-25)	SW846 8260B
1,1-Dichloroethane	98	(68 - 127)			SW846 8260B
	90	(68 - 127)	8.7	(0-20)	SW846 8260B
1,2-Dichloroethane	107	(62 - 126)			SW846 8260B
	98	(62 - 126)	8.3	(0-20)	SW846 8260B
cis-1,2-Dichloroethene	91	(56 - 134)			SW846 8260B
	80	(56 - 134)	12	(0-20)	SW846 8260B
trans-1,2-Dichloroethene	86	(70 - 124)			SW846 8260B
	79	(70 - 124)	8.8	(0-20)	SW846 8260B
1,1-Dichloroethene	**96**	**(62 - 128)**			**SW846 8260B**
	87	**(62 - 128)**	**9.7**	**(0-26)**	**SW846 8260B**
1,2-Dichloropropane	98	(72 - 122)			SW846 8260B
	88	(72 - 122)	11	(0-20)	SW846 8260B
1,3-Dichloropropane	90	(68 - 122)			SW846 8260B
	81	(68 - 122)	10	(0-20)	SW846 8260B
2,2-Dichloropropane	67	(34 - 149)			SW846 8260B
	69	(34 - 149)	3.6	(0-32)	SW846 8260B
cis-1,3-Dichloropropene	84	(50 - 130)			SW846 8260B
	75	(50 - 130)	11	(0-24)	SW846 8260B
trans-1,3-Dichloropropene	72	(42 - 132)			SW846 8260B
	68	(42 - 132)	5.9	(0-27)	SW846 8260B
1,1-Dichloropropene	81	(71 - 122)			SW846 8260B
	69 a	(71 - 122)	15	(0-20)	SW846 8260B
Ethylbenzene	65 a	(70 - 130)			SW846 8260B
	48 a,p	(70 - 130)	31	(0-20)	SW846 8260B

(Continued on next page)

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: H6D030205 **Work Order #...:** H2HPA1AC-MS **Matrix.....:** WATER
MS Lot-Sample #: H6D030205-002 H2HPA1AD-MSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Hexachlorobutadiene	33 a	(58 - 123)			SW846 8260B
	20 a,p	(58 - 123)	50	(0-25)	SW846 8260B
2-Hexanone	93	(57 - 132)			SW846 8260B
	85	(57 - 132)	8.1	(0-50)	SW846 8260B
Isopropylbenzene	58 a	(69 - 130)			SW846 8260B
	43 a,p	(69 - 130)	31	(0-20)	SW846 8260B
p-Isopropyltoluene	40 a	(53 - 132)			SW846 8260B
	25 a,p	(53 - 132)	45	(0-20)	SW846 8260B
Methylene chloride	98	(53 - 131)			SW846 8260B
	92	(53 - 131)	6.5	(0-20)	SW846 8260B
4-Methyl-2-pentanone	103	(61 - 133)			SW846 8260B
	90	(61 - 133)	14	(0-23)	SW846 8260B
Naphthalene	13 a	(44 - 141)			SW846 8260B
	7.5 a,p	(44 - 141)	57	(0-38)	SW846 8260B
n-Propylbenzene	43 a	(53 - 136)			SW846 8260B
	27 a,p	(53 - 136)	44	(0-20)	SW846 8260B
Styrene	45 a	(69 - 129)			SW846 8260B
	29 a,p	(69 - 129)	43	(0-20)	SW846 8260B
1,1,1,2-Tetrachloroethane	76	(63 - 127)			SW846 8260B
	73	(63 - 127)	4.0	(0-25)	SW846 8260B
1,1,2,2-Tetrachloroethane	90	(65 - 128)			SW846 8260B
	81	(65 - 128)	10	(0-20)	SW846 8260B
Tetrachloroethene	71	(66 - 136)			SW846 8260B
	56 a,p	(66 - 136)	23	(0-20)	SW846 8260B
Toluene	**71**	**(69 - 129)**			**SW846 8260B**
	56 a,p	**(69 - 129)**	**23**	**(0-20)**	**SW846 8260B**
1,2,3-Trichlorobenzene	17 a	(56 - 131)			SW846 8260B
	10 a,p	(56 - 131)	53	(0-36)	SW846 8260B
1,2,4-Trichloro-benzene	15 a	(59 - 129)			SW846 8260B
	9.6 a,p	(59 - 129)	46	(0-28)	SW846 8260B
1,1,1-Trichloroethane	88	(55 - 129)			SW846 8260B
	85	(55 - 129)	3.6	(0-24)	SW846 8260B
1,1,2-Trichloroethane	93	(65 - 124)			SW846 8260B
	87	(65 - 124)	6.9	(0-20)	SW846 8260B
Trichloroethene	**86**	**(56 - 137)**			**SW846 8260B**
	72	**(56 - 137)**	**18**	**(0-20)**	**SW846 8260B**
Trichlorofluoromethane	97	(61 - 144)			SW846 8260B
	93	(61 - 144)	3.4	(0-20)	SW846 8260B
1,2,3-Trichloropropane	88	(54 - 128)			SW846 8260B
	77	(54 - 128)	14	(0-32)	SW846 8260B

(Continued on next page)

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: H6D030205 **Work Order #...:** H2HPA1AC-MS **Matrix.....:** WATER
MS Lot-Sample #: H6D030205-002 H2HPA1AD-MSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
1,2,4-Trimethylbenzene	38 a	(55 - 130)			SW846 8260B
	22 a,p	(55 - 130)	53	(0-20)	SW846 8260B
1,3,5-Trimethylbenzene	46 a	(56 - 133)			SW846 8260B
	29 a,p	(56 - 133)	47	(0-20)	SW846 8260B
Vinyl chloride	100	(65 - 139)			SW846 8260B
	93	(65 - 139)	7.0	(0-21)	SW846 8260B
m-Xylene & p-Xylene	57 a	(65 - 137)			SW846 8260B
	40 a,p	(65 - 137)	35	(0-20)	SW846 8260B
o-Xylene	59 a	(69 - 129)			SW846 8260B
	42 a,p	(69 - 129)	33	(0-20)	SW846 8260B
Xylenes (total)	58 a	(67 - 134)			SW846 8260B
	41 a,p	(67 - 134)	34	(0-20)	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	110	(79 - 120)
	113	(79 - 120)
1,2-Dichloroethane-d4	112	(71 - 127)
	115	(71 - 127)
Toluene-d8	99	(80 - 120)
	102	(80 - 120)
Bromofluorobenzene	96	(69 - 126)
	94	(69 - 126)

NOTE(S):

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

Bold print denotes control parameters

a Spiked analyte recovery is outside stated control limits.

p Relative percent difference (RPD) is outside stated control limits.

MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: H6D030205 **Work Order #...:** H2HPA1AC-MS **Matrix.....:** WATER
MS Lot-Sample #: H6D030205-002 H2HPA1AD-MSD
Date Sampled...: 03/28/06 **Date Received..:** 04/02/06
Prep Date.....: 04/05/06 **Analysis Date..:** 04/05/06
Prep Batch #...: 6095253
Dilution Factor: 1

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
Acetone	ND	40.0	31.1	ug/L	78		SW846 8260B
	ND	40.0	34.0	ug/L	85	8.9	SW846 8260B
Acrylonitrile	ND	200	205	ug/L	103		SW846 8260B
	ND	200	195	ug/L	97	5.2	SW846 8260B
Benzene	**ND**	**10.0**	**7.99**	**ug/L**	**80**		**SW846 8260B**
	ND	**10.0**	**6.68**	**ug/L**	**67 a**	**18**	**SW846 8260B**
Bromobenzene	ND	10.0	6.02	ug/L	60 a		SW846 8260B
	ND	10.0	4.30	ug/L	43 a,p	33	SW846 8260B
Bromochloromethane	ND	10.0	10.0	ug/L	100		SW846 8260B
	ND	10.0	9.01	ug/L	90	10	SW846 8260B
Bromodichloromethane	ND	10.0	9.34	ug/L	93		SW846 8260B
	ND	10.0	8.81	ug/L	88	5.9	SW846 8260B
Bromoform	0.99	10.0	9.24	ug/L	83		SW846 8260B
	0.99	10.0	9.20	ug/L	82	0.43	SW846 8260B
Bromomethane	ND	10.0	9.04	ug/L	90		SW846 8260B
	ND	10.0	8.89	ug/L	89	1.7	SW846 8260B
2-Butanone	ND	40.0	38.5	ug/L	96		SW846 8260B
	ND	40.0	35.3	ug/L	88	8.5	SW846 8260B
n-Butylbenzene	ND	10.0	2.32	ug/L	23 a		SW846 8260B
	ND	10.0	1.29	ug/L	13 a,p	57	SW846 8260B
sec-Butylbenzene	ND	10.0	4.12	ug/L	41 a		SW846 8260B
	ND	10.0	2.62	ug/L	26 a,p	44	SW846 8260B
tert-Butylbenzene	ND	10.0	5.61	ug/L	56		SW846 8260B
	ND	10.0	3.89	ug/L	39 a,p	36	SW846 8260B
Carbon disulfide	ND	10.0	8.41	ug/L	84		SW846 8260B
	ND	10.0	7.50	ug/L	75	11	SW846 8260B
Carbon tetrachloride	ND	10.0	6.82	ug/L	68		SW846 8260B
	ND	10.0	6.92	ug/L	69	1.4	SW846 8260B
Chlorobenzene	**ND**	**10.0**	**6.64**	**ug/L**	**66 a**		**SW846 8260B**
	ND	**10.0**	**4.82**	**ug/L**	**48 a,p**	**32**	**SW846 8260B**
Chlorodibromomethane	0.92	10.0	8.24	ug/L	73		SW846 8260B
	0.92	10.0	8.55	ug/L	76	3.7	SW846 8260B
Chloroethane	ND	10.0	10.6	ug/L	106		SW846 8260B
	ND	10.0	9.78	ug/L	98	8.2	SW846 8260B
Chloroform	ND	10.0	9.70	ug/L	97		SW846 8260B
	ND	10.0	8.82	ug/L	88	9.4	SW846 8260B
Chloromethane	ND	10.0	10.6	ug/L	106		SW846 8260B
	ND	10.0	9.73	ug/L	97	8.9	SW846 8260B
2-Chlorotoluene	ND	10.0	4.65	ug/L	47 a		SW846 8260B
	ND	10.0	2.89	ug/L	29 a,p	47	SW846 8260B

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MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: H6D030205 **Work Order #...:** H2HPA1AC-MS **Matrix.....:** WATER
MS Lot-Sample #: H6D030205-002 H2HPA1AD-MSD

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
4-Chlorotoluene	ND	10.0	4.23	ug/L	42 a		SW846 8260B
	ND	10.0	2.56	ug/L	26 a,p	49	SW846 8260B
1,2-Dibromo-3-chloro-propane	ND	10.0	6.65	ug/L	67		SW846 8260B
	ND	10.0	5.23	ug/L	52	24	SW846 8260B
1,2-Dibromoethane	ND	10.0	8.93	ug/L	89		SW846 8260B
	ND	10.0	7.93	ug/L	79	12	SW846 8260B
Dibromomethane	ND	10.0	9.78	ug/L	98		SW846 8260B
	ND	10.0	8.61	ug/L	86	13	SW846 8260B
1,2-Dichlorobenzene	ND	10.0	4.41	ug/L	44 a		SW846 8260B
	ND	10.0	2.65	ug/L	27 a,p	50	SW846 8260B
1,3-Dichlorobenzene	ND	10.0	3.87	ug/L	39 a		SW846 8260B
	ND	10.0	2.28	ug/L	23 a,p	52	SW846 8260B
1,4-Dichlorobenzene	ND	10.0	3.81	ug/L	38 a		SW846 8260B
	ND	10.0	2.18	ug/L	22 a,p	55	SW846 8260B
Dichlorodifluoromethane	ND	10.0	8.54	ug/L	85		SW846 8260B
	ND	10.0	8.13	ug/L	81	4.9	SW846 8260B
1,1-Dichloroethane	ND	10.0	9.81	ug/L	98		SW846 8260B
	ND	10.0	8.99	ug/L	90	8.7	SW846 8260B
1,2-Dichloroethane	ND	10.0	10.7	ug/L	107		SW846 8260B
	ND	10.0	9.84	ug/L	98	8.3	SW846 8260B
cis-1,2-Dichloroethene	ND	10.0	9.09	ug/L	91		SW846 8260B
	ND	10.0	8.02	ug/L	80	12	SW846 8260B
trans-1,2-Dichloroethene	ND	10.0	8.59	ug/L	86		SW846 8260B
	ND	10.0	7.87	ug/L	79	8.8	SW846 8260B
1,1-Dichloroethene	**ND**	**10.0**	**9.56**	**ug/L**	**96**		**SW846 8260B**
	ND	**10.0**	**8.68**	**ug/L**	**87**	**9.7**	**SW846 8260B**
1,2-Dichloropropane	ND	10.0	9.80	ug/L	98		SW846 8260B
	ND	10.0	8.80	ug/L	88	11	SW846 8260B
1,3-Dichloropropane	ND	10.0	9.00	ug/L	90		SW846 8260B
	ND	10.0	8.11	ug/L	81	10	SW846 8260B
2,2-Dichloropropane	ND	10.0	6.68	ug/L	67		SW846 8260B
	ND	10.0	6.93	ug/L	69	3.6	SW846 8260B
cis-1,3-Dichloropropene	ND	10.0	8.42	ug/L	84		SW846 8260B
	ND	10.0	7.52	ug/L	75	11	SW846 8260B
trans-1,3-Dichloropropene	ND	10.0	7.21	ug/L	72		SW846 8260B
	ND	10.0	6.80	ug/L	68	5.9	SW846 8260B
1,1-Dichloropropene	ND	10.0	8.08	ug/L	81		SW846 8260B
	ND	10.0	6.94	ug/L	69 a	15	SW846 8260B
Ethylbenzene	ND	10.0	6.50	ug/L	65 a		SW846 8260B
	ND	10.0	4.77	ug/L	48 a,p	31	SW846 8260B

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MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: H6D030205 **Work Order #...:** H2HPA1AC-MS **Matrix.....:** WATER
MS Lot-Sample #: H6D030205-002 H2HPA1AD-MSD

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
Hexachlorobutadiene	ND	10.0	3.29	ug/L	33 a		SW846 8260B
	ND	10.0	1.98	ug/L	20 a,p	50	SW846 8260B
2-Hexanone	ND	40.0	37.1	ug/L	93		SW846 8260B
	ND	40.0	34.2	ug/L	85	8.1	SW846 8260B
Isopropylbenzene	ND	10.0	5.79	ug/L	58 a		SW846 8260B
	ND	10.0	4.25	ug/L	43 a,p	31	SW846 8260B
p-Isopropyltoluene	ND	10.0	4.00	ug/L	40 a		SW846 8260B
	ND	10.0	2.52	ug/L	25 a,p	45	SW846 8260B
Methylene chloride	ND	10.0	9.79	ug/L	98		SW846 8260B
	ND	10.0	9.17	ug/L	92	6.5	SW846 8260B
4-Methyl-2-pentanone	ND	40.0	41.3	ug/L	103		SW846 8260B
	ND	40.0	35.9	ug/L	90	14	SW846 8260B
Naphthalene	ND	10.0	1.35	ug/L	13 a		SW846 8260B
	ND	10.0	0.747	ug/L	7.5	57	SW846 8260B
	Qualifiers:		a,p				
n-Propylbenzene	ND	10.0	4.29	ug/L	43 a		SW846 8260B
	ND	10.0	2.73	ug/L	27 a,p	44	SW846 8260B
Styrene	ND	10.0	4.53	ug/L	45 a		SW846 8260B
	ND	10.0	2.93	ug/L	29 a,p	43	SW846 8260B
1,1,1,2-Tetrachloroethane	ND	10.0	7.56	ug/L	76		SW846 8260B
	ND	10.0	7.26	ug/L	73	4.0	SW846 8260B
1,1,2,2-Tetrachloroethane	ND	10.0	9.00	ug/L	90		SW846 8260B
	ND	10.0	8.12	ug/L	81	10	SW846 8260B
Tetrachloroethene	ND	10.0	7.07	ug/L	71		SW846 8260B
	ND	10.0	5.64	ug/L	56 a,p	23	SW846 8260B
Toluene	**ND**	**10.0**	**7.06**	**ug/L**	**71**		**SW846 8260B**
	ND	**10.0**	**5.58**	**ug/L**	**56 a,p**	**23**	**SW846 8260B**
1,2,3-Trichlorobenzene	ND	10.0	1.72	ug/L	17 a		SW846 8260B
	ND	10.0	0.996	ug/L	10 a,p	53	SW846 8260B
1,2,4-Trichloro-benzene	ND	10.0	1.52	ug/L	15 a		SW846 8260B
	ND	10.0	0.959	ug/L	9.6	46	SW846 8260B
	Qualifiers:		a,p				
1,1,1-Trichloroethane	ND	10.0	8.76	ug/L	88		SW846 8260B
	ND	10.0	8.45	ug/L	85	3.6	SW846 8260B
1,1,2-Trichloroethane	ND	10.0	9.28	ug/L	93		SW846 8260B
	ND	10.0	8.66	ug/L	87	6.9	SW846 8260B
Trichloroethene	**ND**	**10.0**	**8.65**	**ug/L**	**86**		**SW846 8260B**
	ND	**10.0**	**7.19**	**ug/L**	**72**	**18**	**SW846 8260B**
Trichlorofluoromethane	ND	10.0	9.67	ug/L	97		SW846 8260B
	ND	10.0	9.35	ug/L	93	3.4	SW846 8260B
1,2,3-Trichloropropane	ND	10.0	8.78	ug/L	88		SW846 8260B
	ND	10.0	7.66	ug/L	77	14	SW846 8260B

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MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: H6D030205 **Work Order #...:** H2HPA1AC-MS **Matrix.....:** WATER
MS Lot-Sample #: H6D030205-002 H2HPA1AD-MSD

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
1,2,4-Trimethylbenzene	ND	10.0	3.80	ug/L	38 a		SW846 8260B
	ND	10.0	2.21	ug/L	22 a,p	53	SW846 8260B
1,3,5-Trimethylbenzene	ND	10.0	4.60	ug/L	46 a		SW846 8260B
	ND	10.0	2.85	ug/L	29 a,p	47	SW846 8260B
Vinyl chloride	ND	10.0	10.0	ug/L	100		SW846 8260B
	ND	10.0	9.32	ug/L	93	7.0	SW846 8260B
m-Xylene & p-Xylene	ND	20.0	11.4	ug/L	57 a		SW846 8260B
	ND	20.0	8.01	ug/L	40 a,p	35	SW846 8260B
o-Xylene	ND	10.0	5.90	ug/L	59 a		SW846 8260B
	ND	10.0	4.22	ug/L	42 a,p	33	SW846 8260B
Xylenes (total)	ND	30.0	17.3	ug/L	58 a		SW846 8260B
	ND	30.0	12.2	ug/L	41 a,p	34	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	110	(79 - 120)
	113	(79 - 120)
1,2-Dichloroethane-d4	112	(71 - 127)
	115	(71 - 127)
Toluene-d8	99	(80 - 120)
	102	(80 - 120)
Bromofluorobenzene	96	(69 - 126)
	94	(69 - 126)

NOTE(S):

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

Bold print denotes control parameters

a Spiked analyte recovery is outside stated control limits.

p Relative percent difference (RPD) is outside stated control limits.

Data File: /var/chem/gcms/mz.i/Z040506.b/h2hpa1ac.d
Report Date: 06-Apr-2006 12:51

STL Knoxville

Volatile Organics by GC/MS

Data file : /var/chem/gcms/mz.i/Z040506.b/h2hpa1ac.d
Lab Smp Id: H2HPA1AC Client Smp ID: G-2893-R1-SCRUBBER
Inj Date : 05-APR-2006 20:56
Operator : 063605 Inst ID: mz.i
Smp Info : H2HPA1AC,1,3,,MS
Misc Info : Z040506,8260B_,focus.sub
Comment : Volatile Organics by GC/MS
Method : /var/chem/gcms/mz.i/Z040506.b/8260B_LM.m
Meth Date : 06-Apr-2006 12:50 tillerm Quant Type: ISTD
Cal Date : 24-MAR-2006 13:51 Cal File: icvzc248.d
Als bottle: 9 QC Sample: MS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: focus.sub
Target Version: 3.50
Processing Host: qmidhp01

Concentration Formula: Amt * DF * Uf*Vt/(Vo*1000) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Unit Correction factor
Vt	25000.00000	Sample Volume Purged
Vo	25.00000	Sample Volume Used

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
* 1 Fluorobenzene	96	5.669	5.667	(1.000)	810527	10.0000	
* 2 Chlorobenzene-d5	119	8.929	8.933	(1.000)	151384	10.0000	
* 3 1,4 Dichlorobenzene-d4	152	11.485	11.488	(1.000)	176846	10.0000	
$ 5 1,2-Dichloroethane-d4	65	5.237	5.229	(0.924)	125934	11.2132	11.213
$ 4 Dibromofluoromethane	113	4.823	4.821	(0.851)	143228	11.0281	11.028
$ 6 Toluene-d8	98	7.457	7.455	(0.835)	655764	9.85882	9.8588
$ 7 4-Bromofluorobenzene	95	10.122	10.126	(0.881)	171173	9.59761	9.5976
10 Dichlorodifluoromethane	85	1.015	1.013	(0.179)	168899	8.53682	8.5368
11 Chloromethane (spcc)	50	1.124	1.122	(0.198)	508851	10.6419	10.642
12 Vinyl Chloride (ccc)	62	1.197	1.195	(0.211)	319294	10.0018	10.002
15 Bromomethane	94	1.410	1.414	(0.249)	70983	9.04365	9.0436
16 Chloroethane	64	1.483	1.481	(0.262)	160392	10.6105	10.610
18 Trichlorofluoromethane	101	1.672	1.670	(0.295)	239626	9.67257	9.6726
20 1,1-Dichloroethene (ccc)	96	2.067	2.065	(0.365)	168385	9.55866	9.5586

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	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
	==========	====	==	======	======	========	========	========
	21 *Freon 113	151	2.086	2.083	(0.368)	117728	8.58442	8.5844
	22 Acetone	43	2.128	2.126	(0.375)	65143	31.1191	31.119
	23 *Iodomethane	142	2.183	2.181	(0.385)	247020	12.2243	12.224
	24 Carbon Disulfide	76	2.232	2.229	(0.394)	522862	8.40851	8.4085
	27 Methylene Chloride	84	2.505	2.503	(0.442)	132658	9.78626	9.7863
	29 *Acrylonitrile	53	2.761	2.759	(0.487)	620546	205.026	205.03
	30 trans-1,2-Dichloroethene	96	2.791	2.789	(0.492)	191070	8.59217	8.5922
	33 1,1-Dichloroethane (spcc)	63	3.278	3.276	(0.578)	504302	9.81098	9.8110
	34 *Vinyl Acetate	86	3.406	3.397	(0.601)	16771	15.5200	15.520
	35 2,2-Dichloropropane	77	4.105	4.091	(0.724)	174495	6.68153	6.6815(R)
	36 cis 1,2-Dichloroethene	96	4.111	4.109	(0.725)	186603	9.09080	9.0908
M	8 1,2-Dichloroethene (total)	96				377674	17.6830	17.683
	37 2-Butanone	43	4.178	4.170	(0.737)	118170	38.4773	38.477
	38 Bromochloromethane	128	4.446	4.450	(0.784)	56464	10.0040	10.004
	39 *THF	42	4.537	4.529	(0.800)	73345	38.1393	38.139
	40 Chloroform (ccc)	83	4.616	4.608	(0.814)	283952	9.69595	9.6960
	41 1,1,1-Trichloroethane	97	4.811	4.809	(0.849)	227054	8.75959	8.7596
	42 Carbon Tetrachloride	117	5.036	5.028	(0.888)	140283	6.82103	6.8210(R)
	43 1,1-Dichloropropene	75	5.042	5.046	(0.889)	224385	8.07860	8.0786
	44 Benzene	78	5.298	5.295	(0.935)	638954	7.99385	7.9938(R)
	45 1,2-Dichloroethane	62	5.328	5.326	(0.940)	181107	10.7000	10.700
	46 Trichloroethene	130	6.107	6.105	(1.077)	194473	8.64929	8.6493
	47 1,2-Dichloropropane (ccc)	63	6.344	6.342	(1.119)	214086	9.80302	9.8030
	49 Dibromomethane	93	6.472	6.470	(1.142)	44455	9.77528	9.7753
	50 Bromodichloromethane	83	6.685	6.683	(1.179)	130489	9.33905	9.3390
	52 cis-1,3-Dichloropropene	75	7.184	7.181	(1.267)	149362	8.42290	8.4229
	53 4-Methyl-2-pentanone	43	7.378	7.376	(1.302)	292204	41.2825	41.282
	54 Toluene (ccc)	91	7.524	7.522	(0.843)	608379	7.06158	7.0616(R)
	55 trans-1,3-Dichloropropene	75	7.786	7.784	(0.872)	90717	7.21333	7.2133
	57 1,1,2-Trichloroethane	97	7.962	7.960	(0.892)	64877	9.27805	9.2780
	58 Tetrachloroethene	164	8.096	8.094	(0.907)	126424	7.07479	7.0748
	59 1,3-Dichloropropane	76	8.120	8.118	(0.909)	110324	9.00117	9.0012
	60 2-Hexanone	43	8.254	8.252	(0.924)	173656	37.0694	37.069
	61 Chlorodibromomethane	129	8.345	8.349	(0.935)	59501	8.23499	8.2350
	62 1,2-Dibromoethane	107	8.437	8.435	(0.945)	55893	8.92600	8.9260
	63 Chlorobenzene (spcc)	112	8.960	8.958	(1.003)	319223	6.63862	6.6386(R)
	65 Ethylbenzene (ccc)	106	9.094	9.092	(1.018)	201335	6.49808	6.4981(R)
	64 1,1,1,2-Tetrachloroethane	131	9.057	9.055	(1.014)	90597	7.56193	7.5619
	66 m&p-Xylene	106	9.221	9.219	(1.033)	426505	11.3866	11.387(R)
	67 o-Xylene	106	9.611	9.609	(1.076)	195352	5.90483	5.9048(R)
M	9 Xylene (total)	106				621857	17.2914	17.291(R)
	68 Styrene	104	9.623	9.621	(1.078)	210616	4.53429	4.5343(R)
	69 Bromoform (spcc)	173	9.781	9.779	(1.095)	21206	9.24018	9.2402
	70 Isopropylbenzene	105	9.994	9.992	(1.119)	551166	5.79382	5.7938(R)
	72 Bromobenzene	156	10.256	10.254	(1.149)	85174	6.02457	6.0246(R)
	73 1,1,2,2-Tetrachloroethane(sp)	83	10.292	10.290	(1.153)	46930	8.99720	8.9972
	74 1,2,3-Trichloropropane	110	10.316	10.314	(0.898)	13369	8.78118	8.7812

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Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
76 n-Propylbenzene	91	10.408	10.406	(0.906)	459496	4.29266	4.2926(R)
77 2-Chlorotoluene	91	10.475	10.473	(0.912)	264011	4.65069	4.6507(R)
78 1,3,5-Trimethylbenzene	105	10.615	10.612	(0.924)	331091	4.59693	4.5969(R)
79 4-Chlorotoluene	91	10.602	10.594	(0.923)	255059	4.22937	4.2294(R)
80 tert-Butylbenzene	119	10.992	10.990	(0.957)	361726	5.60930	5.6093(R)
81 1,2,4-Trimethylbenzene	105	11.053	11.050	(0.962)	257322	3.80264	3.8026(R)
82 sec-Butylbenzene	105	11.278	11.282	(0.982)	391349	4.11696	4.1170(R)
83 1,3-Dichlorobenzene	146	11.387	11.385	(0.992)	119865	3.87207	3.8721(R)
84 p-Isopropyltoluene	119	11.503	11.501	(1.002)	333394	3.99715	3.9971(R)
85 1,4-Dichlorobenzene	146	11.521	11.519	(1.003)	109686	3.80924	3.8092(R)
86 1,2-Dichlorobenzene	146	12.075	12.079	(1.051)	100619	4.40569	4.4057(R)
87 n-Butylbenzene	91	12.148	12.145	(1.058)	173371	2.32398	2.3240(R)
88 1,2-Dibromo-3-chloropropane	157	13.255	13.253	(1.154)	5222	6.65334	6.6533(R)
89 1,2,4-Trichlorobenzene	180	14.295	14.293	(1.245)	21100	1.52439	1.5244(R)
90 Hexachlorobutadiene	225	14.526	14.524	(1.265)	42684	3.28821	3.2882(R)
91 Napthalene	128	14.545	14.542	(1.266)	19550	1.34686	1.3469(R)
92 1,2,3-Trichlorobenzene	180	14.812	14.816	(1.290)	15693	1.72113	1.7211(R)

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

Data File: /var/chem/gcms/mz.i/Z040506.b/h2hpa1ac.d
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STL Knoxville

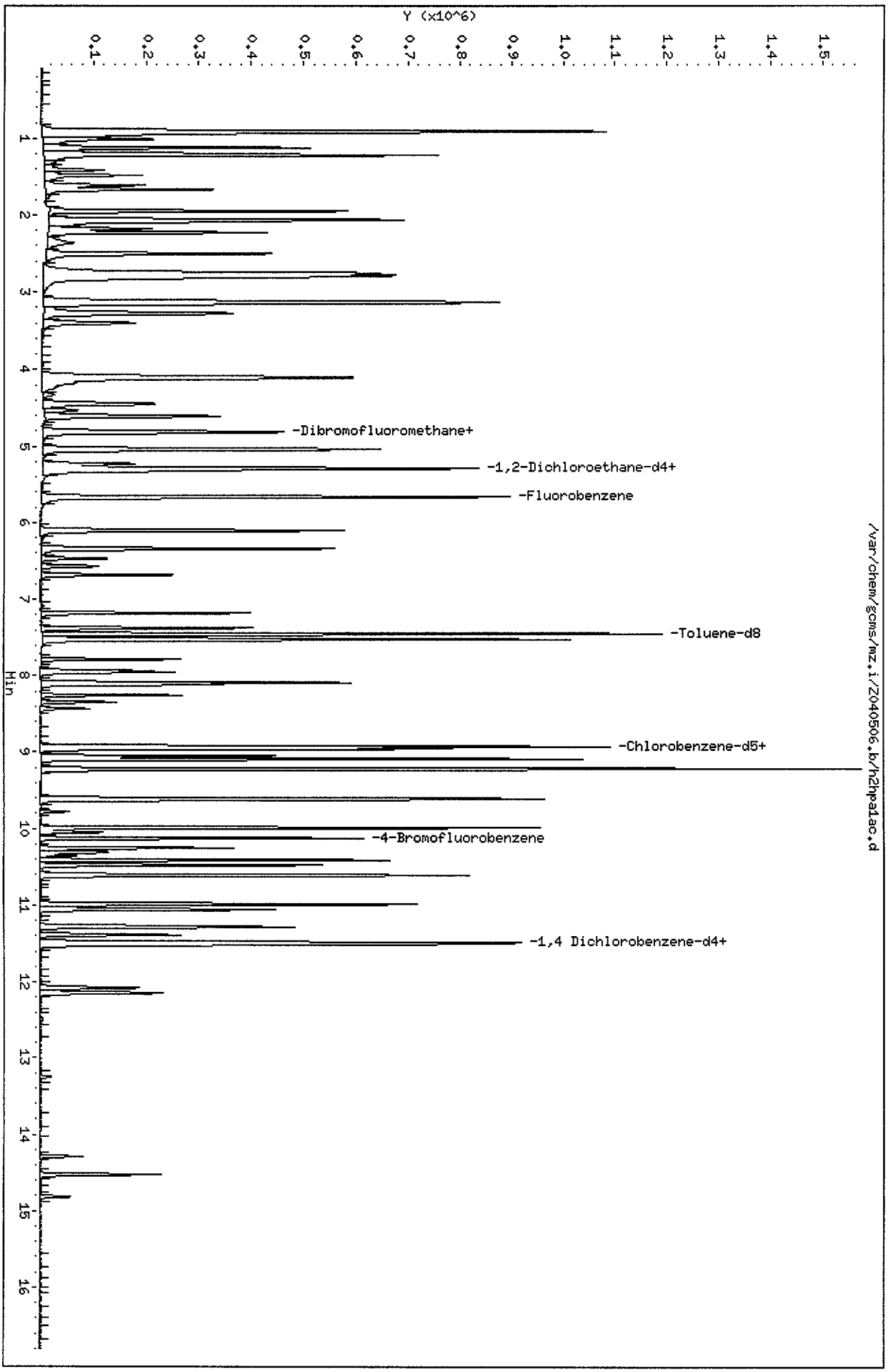
INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: mz.i
Lab File ID: h2hpa1ac.d
Lab Smp Id: H2HPA1AC
Analysis Type: VOA
Quant Type: ISTD
Operator: 063605
Calibration Date: 05-APR-2006
Calibration Time: 14:42
Client Smp ID: G-2893-R1-SCRUBBER
Level: LOW
Sample Type: WATER
Method File: /var/chem/gcms/mz.i/Z040506.b/8260B_LM.m
Misc Info: Z040506,8260B_,focus.sub

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	1078707	539354	2157414	810527	-24.86
2 Chlorobenzene-d5	188899	94450	377798	151384	-19.86
3 1,4 Dichlorobenze	220143	110072	440286	176846	-19.67

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	5.67	5.17	6.17	5.67	0.04
2 Chlorobenzene-d5	8.93	8.43	9.43	8.93	-0.04
3 1,4 Dichlorobenze	11.49	10.99	11.99	11.48	-0.03

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


Data File: /var/chem/gcms/mz.i/Z040506.b/h2hpa1ac.d
Date : 05-APR-2006 20:56
Client ID: G-2893-R1-SCRUBBER
Sample Info: H2HPA1AC,1,3,,MS
Purge Volume: 25.0
Column phase: J+W 624
Instrument: mz.i
Operator: 063005
Column diameter: 0.18
Y (x10^6)
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1.0
1.1
1.2
1.3
1.4
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9
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12
13
14
15
16
Min
-Dibromofluoromethane+
-1,2-Dichloroethane-d4+
-Fluorobenzene
-Toluene-d8
-Chlorobenzene-d5+
-4-Bromofluorobenzene
-1,4 Dichlorobenzene-d4+
/var/chem/gcms/mz.i/Z040506.b/h2hpa1ac.d

Data File: /var/chem/gcms/mz.i/Z040506.b/h2hpa1ad.d
Report Date: 06-Apr-2006 12:51

STL Knoxville

Volatile Organics by GC/MS

Data file : /var/chem/gcms/mz.i/Z040506.b/h2hpa1ad.d
Lab Smp Id: H2HPA1AD Client Smp ID: G-2893-R1-SCRUBBER
Inj Date : 05-APR-2006 21:20
Operator : 063605 Inst ID: mz.i
Smp Info : H2HPA1AD,1,3,,MSD
Misc Info : Z040506,8260B_,focus.sub
Comment : Volatile Organics by GC/MS
Method : /var/chem/gcms/mz.i/Z040506.b/8260B_LM.m
Meth Date : 06-Apr-2006 12:50 tillerm Quant Type: ISTD
Cal Date : 24-MAR-2006 13:51 Cal File: icvzc248.d
Als bottle: 10 QC Sample: MSD
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: focus.sub
Target Version: 3.50
Processing Host: qmidhp01

Concentration Formula: Amt * DF * Uf*Vt/(Vo*1000) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Unit Correction factor
Vt	25000.00000	Sample Volume Purged
Vo	25.00000	Sample Volume Used

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
* 1 Fluorobenzene	96	5.667	5.667	(1.000)	908896	10.0000	
* 2 Chlorobenzene-d5	119	8.933	8.933	(1.000)	162281	10.0000	
* 3 1,4 Dichlorobenzene-d4	152	11.482	11.488	(1.000)	196075	10.0000	
$ 5 1,2-Dichloroethane-d4	65	5.235	5.229	(0.924)	144873	11.5034	11.503
$ 4 Dibromofluoromethane	113	4.821	4.821	(0.851)	164094	11.2672	11.267
$ 6 Toluene-d8	98	7.455	7.455	(0.835)	730565	10.2458	10.246
$ 7 4-Bromofluorobenzene	95	10.126	10.126	(0.882)	185210	9.36622	9.3662
10 Dichlorodifluoromethane	85	1.013	1.013	(0.179)	180339	8.12854	8.1285
11 Chloromethane (spcc)	50	1.122	1.122	(0.198)	524439	9.73426	9.7343
12 Vinyl Chloride (ccc)	62	1.195	1.195	(0.211)	333674	9.32104	9.3210
15 Bromomethane	94	1.414	1.414	(0.250)	78137	8.89296	8.8930
16 Chloroethane	64	1.481	1.481	(0.261)	165722	9.77663	9.7766
18 Trichlorofluoromethane	101	1.664	1.670	(0.294)	259707	9.34855	9.3486
20 1,1-Dichloroethene (ccc)	96	2.065	2.065	(0.364)	171379	8.67574	8.6757

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	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
21	*Freon 113	151	2.083	2.083	(0.368)	131386	8.54345	8.5434
22	Acetone	43	2.126	2.126	(0.375)	77820	34.0129	34.013
23	*Iodomethane	142	2.181	2.181	(0.385)	252371	11.1839	11.184
24	Carbon Disulfide	76	2.229	2.229	(0.393)	522703	7.49619	7.4962
27	Methylene Chloride	84	2.509	2.503	(0.443)	139414	9.17152	9.1715
29	*Acrylonitrile	53	2.759	2.759	(0.487)	660661	194.656	194.66
30	trans-1,2-Dichloroethene	96	2.789	2.789	(0.492)	196166	7.86660	7.8666
33	1,1-Dichloroethane (spcc)	63	3.276	3.276	(0.578)	518407	8.99385	8.9938
34	*Vinyl Acetate	86	3.404	3.397	(0.601)	18274	15.0807	15.081
35	2,2-Dichloropropane	77	4.097	4.091	(0.723)	202909	6.92863	6.9286(R)
36	cis 1,2-Dichloroethene	96	4.109	4.109	(0.725)	184714	8.02485	8.0248
M 8	1,2-Dichloroethene (total)	96				380881	15.8914	15.891
37	2-Butanone	43	4.176	4.170	(0.737)	121651	35.3236	35.324
38	Bromochloromethane	128	4.450	4.450	(0.785)	57038	9.01192	9.0119
39	*THF	42	4.523	4.529	(0.798)	78851	36.5644	36.564
40	Chloroform (ccc)	83	4.614	4.608	(0.814)	289689	8.82127	8.8213
41	1,1,1-Trichloroethane	97	4.809	4.809	(0.849)	245678	8.45230	8.4523
42	Carbon Tetrachloride	117	5.034	5.028	(0.888)	159616	6.91613	6.9161(R)
43	1,1-Dichloropropene	75	5.046	5.046	(0.890)	216130	6.93921	6.9392(R)
44	Benzene	78	5.295	5.295	(0.934)	598602	6.67850	6.6785(R)
45	1,2-Dichloroethane	62	5.326	5.326	(0.940)	186829	9.84343	9.8434
46	Trichloroethene	130	6.111	6.105	(1.078)	181341	7.19237	7.1924(R)
47	1,2-Dichloropropane (ccc)	63	6.348	6.342	(1.120)	215514	8.80038	8.8004
49	Dibromomethane	93	6.476	6.470	(1.143)	43923	8.61281	8.6128
50	Bromodichloromethane	83	6.689	6.683	(1.180)	137255	8.80563	8.8056
52	cis-1,3-Dichloropropene	75	7.181	7.181	(1.267)	149473	7.51689	7.5169
53	4-Methyl-2-pentanone	43	7.376	7.376	(1.302)	284960	35.9019	35.902
54	Toluene (ccc)	91	7.528	7.522	(0.843)	515356	5.58014	5.5801(R)
55	trans-1,3-Dichloropropene	75	7.784	7.784	(0.871)	91128	6.79873	6.7987(R)
57	1,1,2-Trichloroethane	97	7.960	7.960	(0.891)	64913	8.65977	8.6598
58	Tetrachloroethene	164	8.094	8.094	(0.906)	108086	5.64241	5.6424(R)
59	1,3-Dichloropropane	76	8.124	8.118	(0.909)	106528	8.10777	8.1078
60	2-Hexanone	43	8.252	8.252	(0.924)	171667	34.1840	34.184
61	Chlorodibromomethane	129	8.349	8.349	(0.935)	66451	8.54707	8.5471
62	1,2-Dibromoethane	107	8.435	8.435	(0.944)	53263	7.93485	7.9348
63	Chlorobenzene (spcc)	112	8.958	8.958	(1.003)	248330	4.81752	4.8175(R)
65	Ethylbenzene (ccc)	106	9.092	9.092	(1.018)	158548	4.77350	4.7735(R)
64	1,1,1,2-Tetrachloroethane	131	9.055	9.055	(1.014)	93132	7.26475	7.2648
66	m&p-Xylene	106	9.219	9.219	(1.032)	321682	8.01137	8.0114(R)
67	o-Xylene	106	9.609	9.609	(1.076)	149809	4.22413	4.2241(R)
M 9	Xylene (total)	106				471491	12.2355	12.235(R)
68	Styrene	104	9.621	9.621	(1.077)	145948	2.93108	2.9311(R)
69	Bromoform (spcc)	173	9.779	9.779	(1.095)	22619	9.19992	9.1999
70	Isopropylbenzene	105	9.992	9.992	(1.118)	433755	4.25341	4.2534(R)
72	Bromobenzene	156	10.254	10.254	(1.148)	65196	4.30181	4.3018(R)
73	1,1,2,2-Tetrachloroethane(sp)	83	10.290	10.290	(1.152)	45391	8.11775	8.1178
74	1,2,3-Trichloropropane	110	10.314	10.314	(0.898)	12931	7.66054	7.6605

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	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)
76	n-Propylbenzene	91	10.406	10.406	(0.906)	324068	2.73057	2.7306(R)
77	2-Chlorotoluene	91	10.473	10.473	(0.912)	181659	2.88619	2.8862(R)
78	1,3,5-Trimethylbenzene	105	10.612	10.612	(0.924)	227917	2.85411	2.8541(R)
79	4-Chlorotoluene	91	10.600	10.594	(0.923)	170879	2.55562	2.5556(R)
80	tert-Butylbenzene	119	10.990	10.990	(0.957)	277819	3.88565	3.8856(R)
81	1,2,4-Trimethylbenzene	105	11.057	11.050	(0.963)	165611	2.20735	2.2073(R)
82	sec-Butylbenzene	105	11.282	11.282	(0.982)	276408	2.62263	2.6226(R)
83	1,3-Dichlorobenzene	146	11.391	11.385	(0.992)	78234	2.27940	2.2794(R)
84	p-Isopropyltoluene	119	11.501	11.501	(1.002)	232870	2.51813	2.5181(R)
85	1,4-Dichlorobenzene	146	11.519	11.519	(1.003)	69455	2.17553	2.1755(R)
86	1,2-Dichlorobenzene	146	12.079	12.079	(1.052)	67217	2.65454	2.6545(R)
87	n-Butylbenzene	91	12.145	12.145	(1.058)	106976	1.29334	1.2933(R)
88	1,2-Dibromo-3-chloropropane	157	13.259	13.253	(1.155)	4392	5.23294	5.2329(R)
89	1,2,4-Trichlorobenzene	180	14.293	14.293	(1.245)	14718	0.95905	0.95905(R)
90	Hexachlorobutadiene	225	14.524	14.524	(1.265)	28518	1.98146	1.9814(R)
91	Napthalene	128	14.548	14.542	(1.267)	12015	0.74659	0.74659(R)
92	1,2,3-Trichlorobenzene	180	14.816	14.816	(1.290)	10073	0.99642	0.99642(R)

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

Data File: /var/chem/gcms/mz.i/Z040506.b/h2hpa1ad.d
Report Date: 06-Apr-2006 12:51

STL Knoxville

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

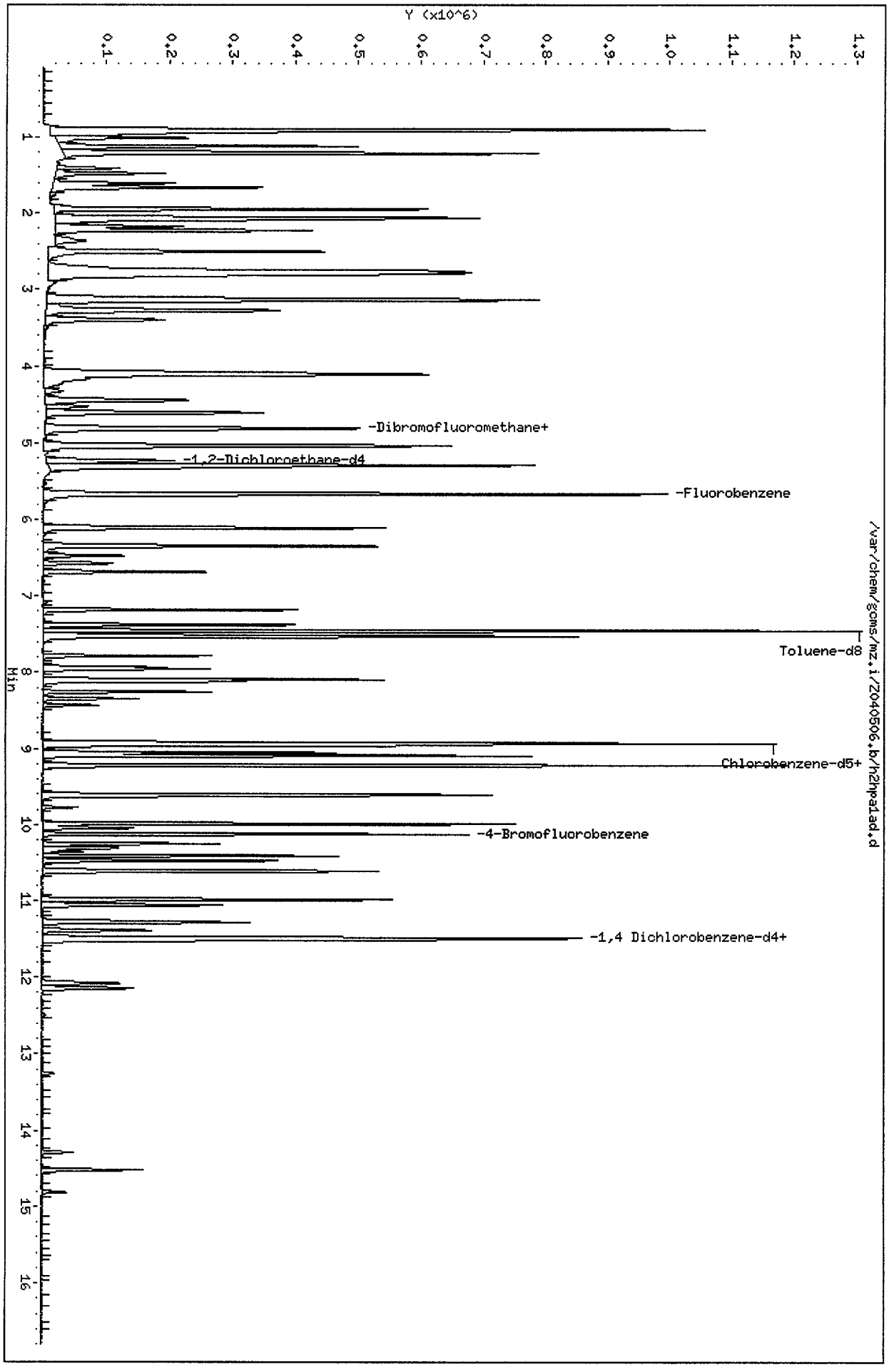
Instrument ID: mz.i
Lab File ID: h2hpa1ad.d
Lab Smp Id: H2HPA1AD
Analysis Type: VOA
Quant Type: ISTD
Operator: 063605
Method File: /var/chem/gcms/mz.i/Z040506.b/8260B_LM.m
Misc Info: Z040506,8260B_,focus.sub

Calibration Date: 05-APR-2006
Calibration Time: 14:42
Client Smp ID: G-2893-R1-SCRUBBER
Level: LOW
Sample Type: WATER

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	1078707	539354	2157414	908896	-15.74
2 Chlorobenzene-d5	188899	94450	377798	162281	-14.09
3 1,4 Dichlorobenze	220143	110072	440286	196075	-10.93

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	5.67	5.17	6.17	5.67	0.00
2 Chlorobenzene-d5	8.93	8.43	9.43	8.93	0.00
3 1,4 Dichlorobenze	11.49	10.99	11.99	11.48	-0.05

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.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Date : 05-APR-2006 21:20
Client ID: G-2893-R1-SCRUBBER
Sample Info: H2HPA1AD,1.3,,HSD
Purge Volume: 25.0
Column phase: J+W 624
Instrument: mz.i
Operator: 063005
Column diameter: 0.18
Y (x10^6)
1.3
1.2
1.1
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
Min
-Dibromofluoromethane+
-1,2-Dichloroethane-d4
-Fluorobenzene
Toluene-d8
Chlorobenzene-d5+
-4-Bromofluorobenzene
-1,4 Dichlorobenzene-d4+
/var/chem/gcms/mz.i/Z040506.b/h2hpa1ad.d

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: H6D030205 **Work Order #...:** H2P781AA **Matrix.....:** WATER
MB Lot-Sample #: H6D060000-330

Prep Date.....: 04/06/06
Analysis Date..: 04/06/06 **Prep Batch #...:** 6096330
Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Acetone	ND	10	ug/L	SW846 8260B
Acrylonitrile	ND	20	ug/L	SW846 8260B
Benzene	ND	1.0	ug/L	SW846 8260B
Bromobenzene	ND	1.0	ug/L	SW846 8260B
Bromochloromethane	ND	1.0	ug/L	SW846 8260B
Bromodichloromethane	ND	1.0	ug/L	SW846 8260B
Bromoform	ND	1.0	ug/L	SW846 8260B
Bromomethane	ND	2.0	ug/L	SW846 8260B
2-Butanone	ND	5.0	ug/L	SW846 8260B
n-Butylbenzene	ND	1.0	ug/L	SW846 8260B
sec-Butylbenzene	ND	1.0	ug/L	SW846 8260B
tert-Butylbenzene	ND	1.0	ug/L	SW846 8260B
Carbon disulfide	ND	1.0	ug/L	SW846 8260B
Carbon tetrachloride	ND	1.0	ug/L	SW846 8260B
Chlorobenzene	ND	1.0	ug/L	SW846 8260B
Chlorodibromomethane	ND	1.0	ug/L	SW846 8260B
Chloroethane	ND	2.0	ug/L	SW846 8260B
Chloroform	ND	1.0	ug/L	SW846 8260B
Chloromethane	ND	2.0	ug/L	SW846 8260B
2-Chlorotoluene	ND	1.0	ug/L	SW846 8260B
4-Chlorotoluene	ND	1.0	ug/L	SW846 8260B
1,2-Dibromo-3-chloro-propane	ND	2.0	ug/L	SW846 8260B
1,2-Dibromoethane	ND	1.0	ug/L	SW846 8260B
Dibromomethane	ND	1.0	ug/L	SW846 8260B
1,2-Dichlorobenzene	ND	1.0	ug/L	SW846 8260B
1,3-Dichlorobenzene	ND	1.0	ug/L	SW846 8260B
1,4-Dichlorobenzene	ND	1.0	ug/L	SW846 8260B
Dichlorodifluoromethane	ND	2.0	ug/L	SW846 8260B
1,1-Dichloroethane	ND	1.0	ug/L	SW846 8260B
1,2-Dichloroethane	ND	1.0	ug/L	SW846 8260B
cis-1,2-Dichloroethene	ND	1.0	ug/L	SW846 8260B
trans-1,2-Dichloroethene	ND	1.0	ug/L	SW846 8260B
1,1-Dichloroethene	ND	1.0	ug/L	SW846 8260B
1,2-Dichloropropane	ND	1.0	ug/L	SW846 8260B
1,3-Dichloropropane	ND	1.0	ug/L	SW846 8260B
2,2-Dichloropropane	ND	1.0	ug/L	SW846 8260B
cis-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260B
trans-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260B
1,1-Dichloropropene	ND	1.0	ug/L	SW846 8260B
Ethylbenzene	ND	1.0	ug/L	SW846 8260B

(Continued on next page)

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: H6D030205 **Work Order #...:** H2P781AA **Matrix.....:** WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Hexachlorobutadiene	ND	2.0	ug/L	SW846 8260B
2-Hexanone	ND	5.0	ug/L	SW846 8260B
Iodomethane	**0.56 J**	**2.0**	**ug/L**	**SW846 8260B**
Isopropylbenzene	ND	1.0	ug/L	SW846 8260B
p-Isopropyltoluene	ND	1.0	ug/L	SW846 8260B
Methylene chloride	ND	2.0	ug/L	SW846 8260B
4-Methyl-2-pentanone	ND	5.0	ug/L	SW846 8260B
Naphthalene	ND	1.0	ug/L	SW846 8260B
n-Propylbenzene	ND	1.0	ug/L	SW846 8260B
Styrene	ND	1.0	ug/L	SW846 8260B
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	SW846 8260B
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	SW846 8260B
Tetrachloroethene	ND	1.0	ug/L	SW846 8260B
Tetrahydrofuran	ND	4.0	ug/L	SW846 8260B
Toluene	ND	1.0	ug/L	SW846 8260B
1,2,3-Trichlorobenzene	ND	1.0	ug/L	SW846 8260B
1,2,4-Trichloro-benzene	ND	1.0	ug/L	SW846 8260B
1,1,1-Trichloroethane	ND	1.0	ug/L	SW846 8260B
1,1,2-Trichloroethane	ND	1.0	ug/L	SW846 8260B
Trichloroethene	ND	1.0	ug/L	SW846 8260B
Trichlorofluoromethane	ND	2.0	ug/L	SW846 8260B
1,2,3-Trichloropropane	ND	1.0	ug/L	SW846 8260B
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	1.0	ug/L	SW846 8260B
1,2,4-Trimethylbenzene	ND	1.0	ug/L	SW846 8260B
1,3,5-Trimethylbenzene	ND	1.0	ug/L	SW846 8260B
Vinyl acetate	ND	2.0	ug/L	SW846 8260B
Vinyl chloride	ND	1.0	ug/L	SW846 8260B
m-Xylene & p-Xylene	ND	1.0	ug/L	SW846 8260B
o-Xylene	ND	1.0	ug/L	SW846 8260B
Xylenes (total)	ND	1.0	ug/L	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	107	(79 - 120)
1,2-Dichloroethane-d4	101	(71 - 127)
Toluene-d8	101	(80 - 120)
Bromofluorobenzene	92	(69 - 126)

NOTE(S):

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

J Estimated result. Result is less than RL.

STL Knoxville - ACS

Method Blank Report

GC/MS Volatiles

Lot-Sample #: H6D060000-330 B **Work Order #:** H2P781AA **Matrix:** WATER

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT	RETENTION TIME	UNITS
None				ug/L

Data File: /chem/gcms/mz.i/Z040606.b/h2p781aa.d
Report Date: 06-Apr-2006 15:54

STL Knoxville

Volatile Organics by GC/MS

Data file : /chem/gcms/mz.i/Z040606.b/h2p781aa.d
Lab Smp Id: H2P781AA Client Smp ID: INTRA-LAB BLANK
Inj Date : 06-APR-2006 15:36
Operator : 063605 Inst ID: mz.i
Smp Info : H2P781AA,1,3,,BLANK
Misc Info : Z040606,8260B_LM,all.sub
Comment : Volatile Organics by GC/MS
Method : /var/chem/gcms/mz.i/Z040606.b/8260B_LM.m
Meth Date : 06-Apr-2006 15:29 tillerm Quant Type: ISTD
Cal Date : 24-MAR-2006 13:51 Cal File: icvzc248.d
Als bottle: 1 QC Sample: METHOD BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50
Processing Host: qmidhp01

Concentration Formula: Amt * DF * Uf*Vt/(Vo*1000) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Unit Correction factor
Vt	25000.00000	Sample Volume Purged
Vo	25.00000	Sample Volume Used

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
*	1 Fluorobenzene	96	5.673	5.667	(1.000)	890519	10.0000	
*	2 Chlorobenzene-d5	119	8.934	8.934	(1.000)	172351	10.0000	
*	3 1,4 Dichlorobenzene-d4	152	11.489	11.489	(1.000)	212125	10.0000	
$	4 Dibromofluoromethane	113	4.827	4.827	(0.851)	153091	10.7287	10.729
$	5 1,2-Dichloroethane-d4	65	5.235	5.229	(0.923)	124607	10.0984	10.098
$	6 Toluene-d8	98	7.461	7.461	(0.835)	762506	10.0690	10.069
$	7 4-Bromofluorobenzene	95	10.126	10.120	(0.881)	197409	9.22782	9.2278
	15 Bromomethane	94	1.427	1.408	(0.251)	719	~~0.91000~~	~~0.91000~~
	22 Acetone	43	2.120	2.126	(0.374)	1198	~~3.47296~~	3.4730
	23 *Iodomethane	142	2.193	2.181	(0.387)	848	0.55877	0.55877
	26 *Acetonitrile	40	2.351	2.364	(0.414)	1313	~~3.31151~~	~~3.3115~~
	45 1,2-Dichloroethane	62	5.673	5.326	(1.000)	14152	~~0.76102~~	~~0.76102~~
	51 *2-Chloroethylvinylether	63	7.474	7.066	(1.317)	1108	~~0.20356~~	~~0.20356~~
	53 4-Methyl-2-pentanone	43	7.461	7.376	(1.315)	5659	0.72~~273~~	~~0.72773~~

MS 4/7/06

Data File: /chem/gcms/mz.i/Z040606.b/h2p781aa.d
Report Date: 06-Apr-2006 15:54

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)
55 trans-1,3-Dichloropropene	75	7.461	7.784	(0.835)	216	~~0.63911~~	~~0.63911~~
56 *Ethyl Methacrylate	69	7.522	7.936	(0.842)	191	~~0.02291~~	~~0.022912~~
89 1,2,4-Trichlorobenzene	180	14.299	14.293	(1.245)	2331	0.14045	0.14045
92 1,2,3-Trichlorobenzene	180	14.816	14.816	(1.290)	2306	0.21088	0.21088

4/7/06

Data File: /chem/gcms/mz.i/Z040606.b/h2p781aa.d
Report Date: 06-Apr-2006 15:54

STL Knoxville

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: mz.i
Lab File ID: h2p781aa.d
Lab Smp Id: H2P781AA
Analysis Type: VOA
Quant Type: ISTD
Operator: 063605
Calibration Date: 06-APR-2006
Calibration Time: 13:58
Client Smp ID: INTRA-LAB BLANK
Level: LOW
Sample Type: WATER
Method File: /var/chem/gcms/mz.i/Z040606.b/8260B_LM.m
Misc Info: Z040606,8260B_LM,all.sub

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 Fluorobenzene	938680	469340	1877360	890519	-5.13
2 Chlorobenzene-d5	169233	84616	338466	172351	1.84
3 1,4 Dichlorobenze	201373	100686	402746	212125	5.34

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 Fluorobenzene	5.67	5.17	6.17	5.67	0.11
2 Chlorobenzene-d5	8.93	8.43	9.43	8.93	0.00
3 1,4 Dichlorobenze	11.49	10.99	11.99	11.49	0.00

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

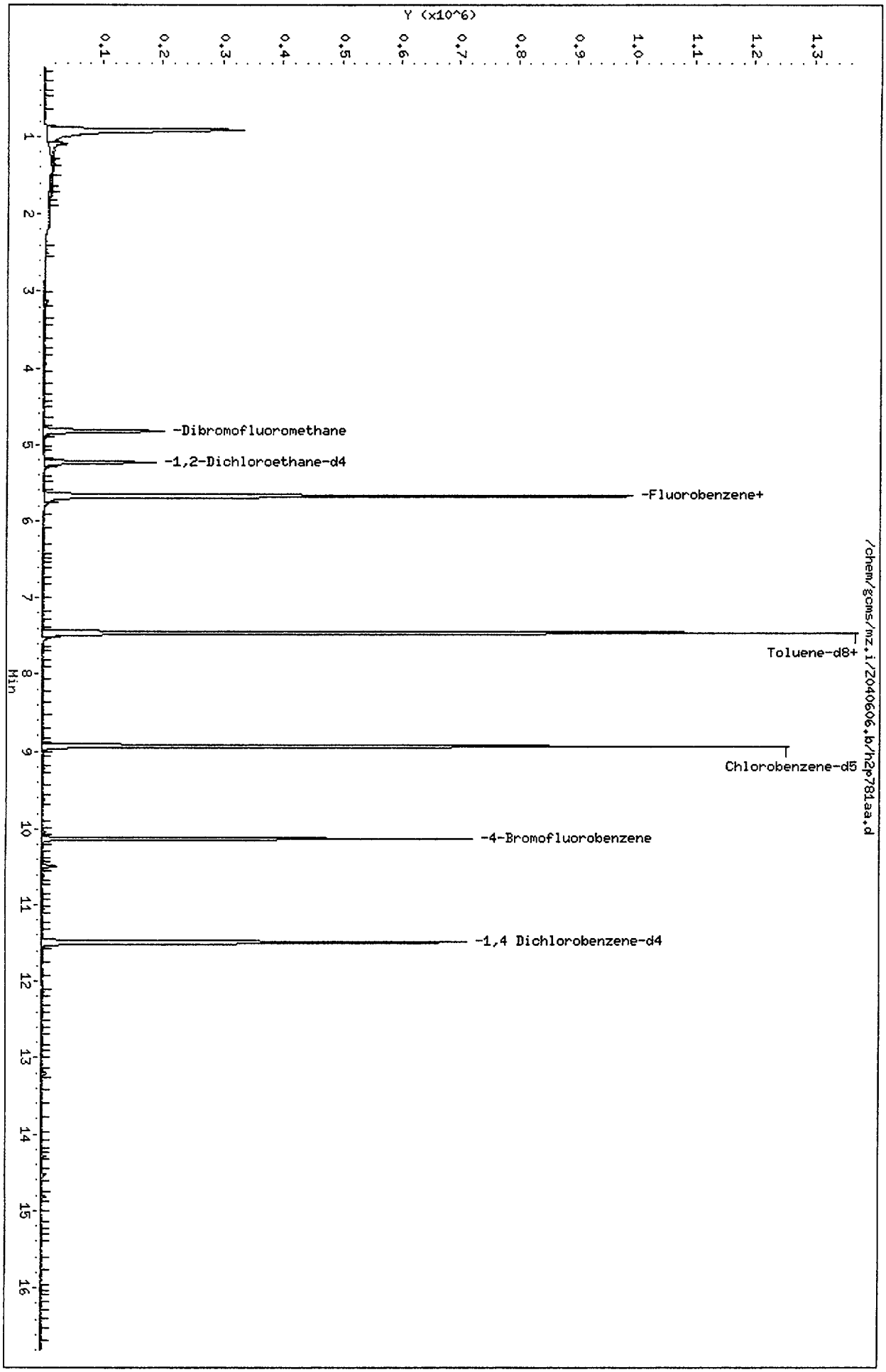
Data File: /chem/gcms/mz.i/Z040606.b/h2p781aa.d
Report Date: 06-Apr-2006 15:54

STL Knoxville

RECOVERY REPORT

Client Name:
Client SDG: H6D060000
Sample Matrix: LIQUID
Fraction: VOA
Lab Smp Id: H2P781AA
Client Smp ID: INTRA-LAB BLANK
Level: LOW
Operator: 063605
Data Type: MS DATA
SampleType: METHOD BLANK
SpikeList File: allcmpds.spk
Quant Type: ISTD
Sublist File: all.sub
Method File: /var/chem/gcms/mz.i/Z040606.b/8260B_LM.m
Misc Info: Z040606,8260B_LM,all.sub

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
$ 4 Dibromofluorometha	10.000	10.729	107.29	79-120
$ 5 1,2-Dichloroethane	10.000	10.098	100.98	71-127
$ 6 Toluene-d8	10.000	10.069	100.69	80-120
$ 7 4-Bromofluorobenze	10.000	9.2278	92.28	69-126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Date : 06-APR-2006 15:36
Client ID: INTRA-LAB BLANK
Sample Info: H2P781AA,1.3,,BLANK
Purge Volume: 25.0
Column phase: J+W 624
Instrument: mz.i
Operator: 063605
Column diameter: 0.18
Y (x10^6)
1.3
1.2
1.1
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
Min
-Dibromofluoromethane
-1,2-Dichloroethane-d4
-Fluorobenzene+
Toluene-d8+
Chlorobenzene-d5
-4-Bromofluorobenzene
-1,4 Dichlorobenzene-d4
/chem/gcms/mz.i/Z040606.b/h2p781aa.d

Data File: /chem/gcms/mz.i/Z040606.b/h2p781aa.d

Date : 06-APR-2006 15:36

Client ID: INTRA-LAB BLANK

Instrument: mz.i

Sample Info: H2P781AA,1,3,,BLANK

Purge Volume: 25.0

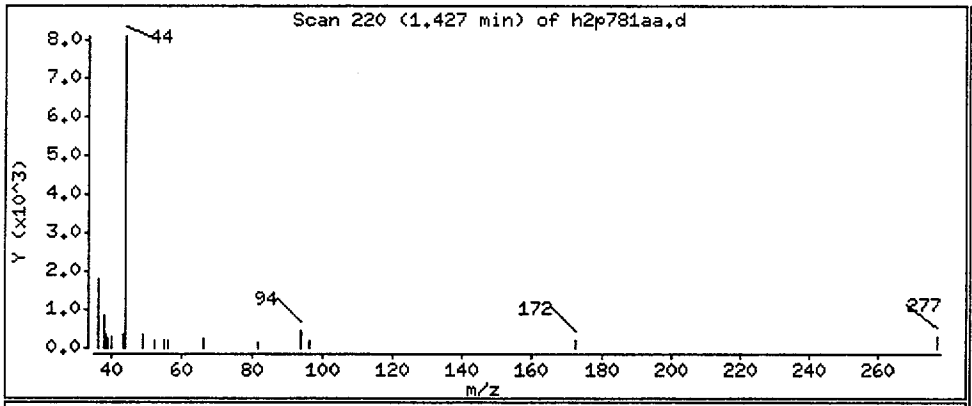
Operator: 063605

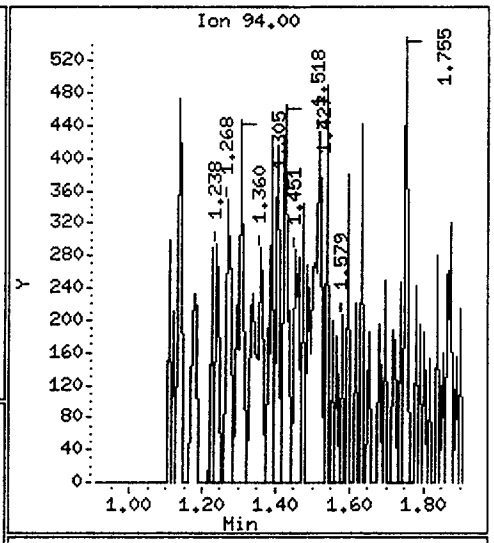
Column phase: J+W 624

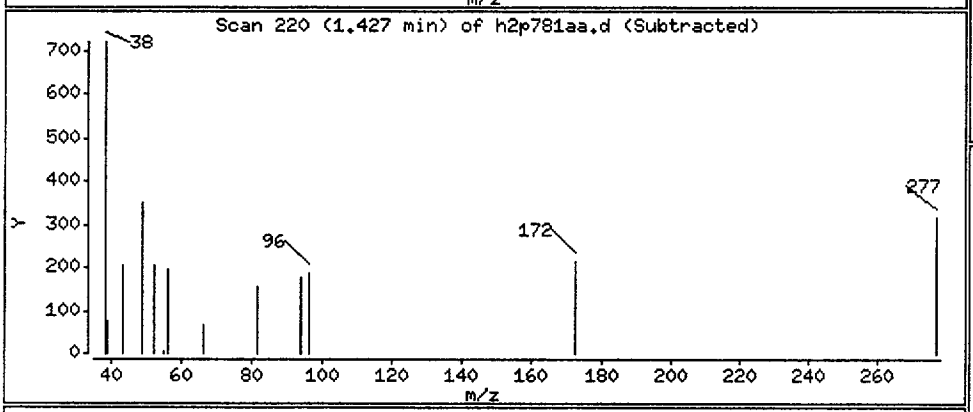
Column diameter: 0.18

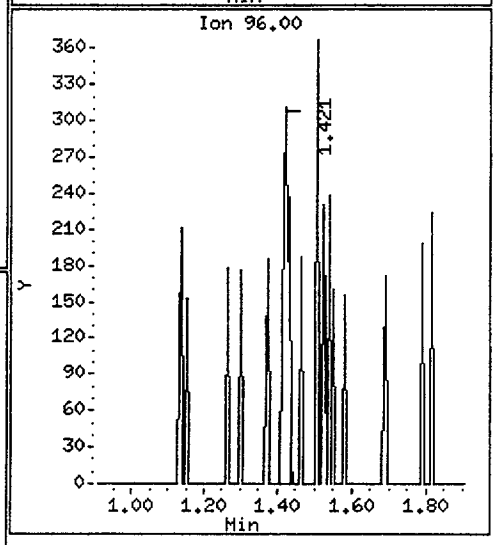
15 Bromomethane

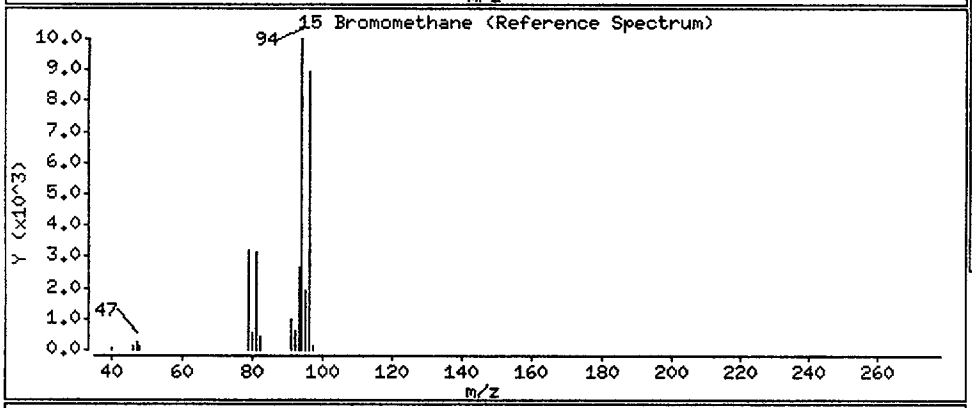
Concentration: 0.91000 ug/L

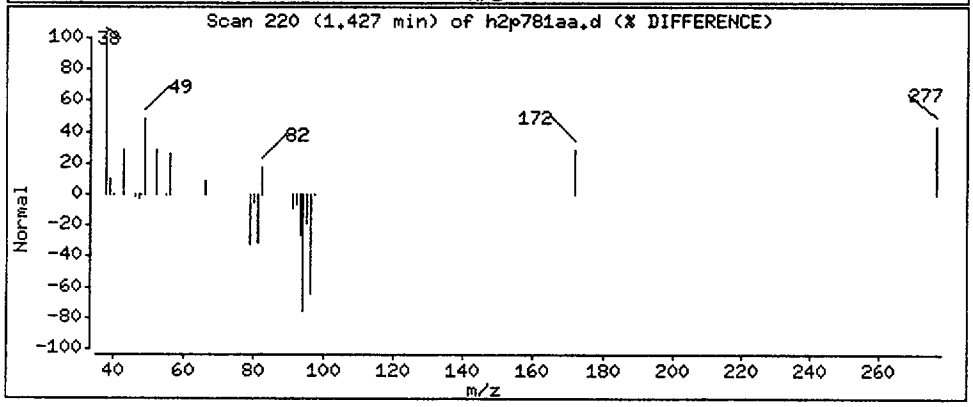












Data File: /chem/gcms/mz.i/Z040606.b/h2p781aa.d

Date : 06-APR-2006 15:36

Client ID: INTRA-LAB BLANK

Instrument: mz.i

Sample Info: H2P781AA,1,3,,BLANK

Purge Volume: 25.0

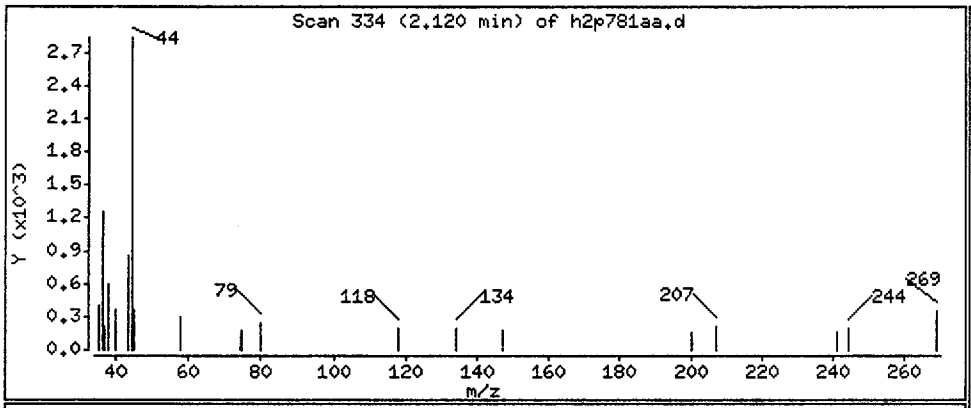
Operator: 063605

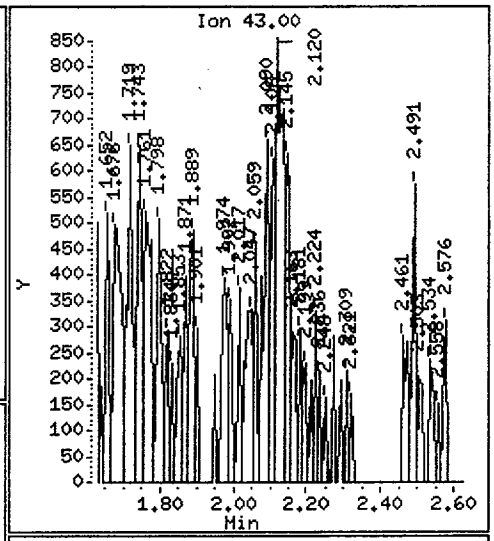
Column phase: J+W 624

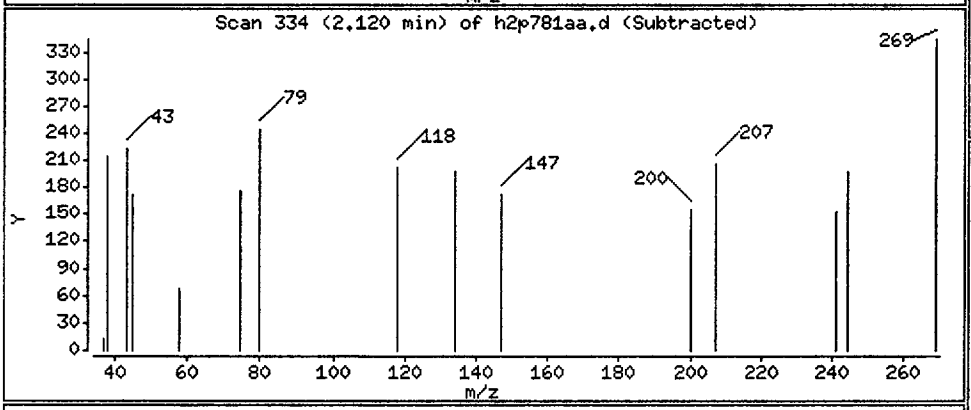
Column diameter: 0.18

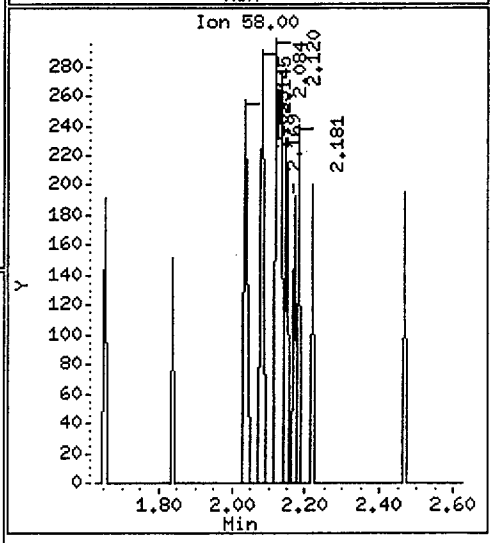
22 Acetone

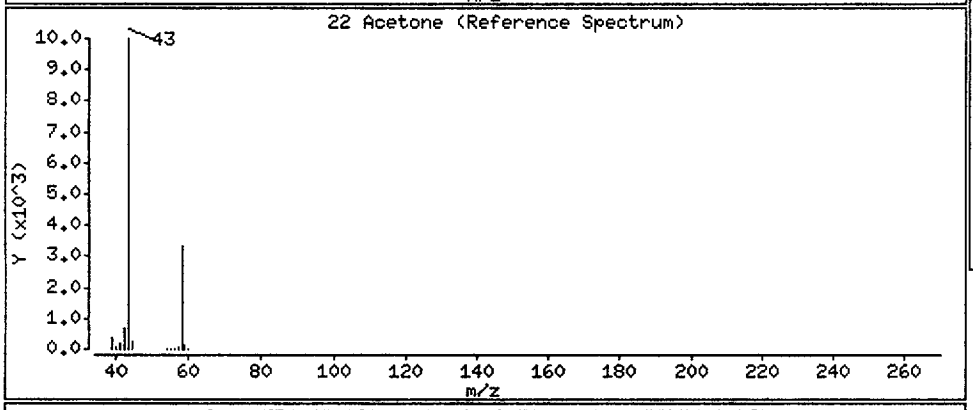
Concentration: 3.4730 ug/L

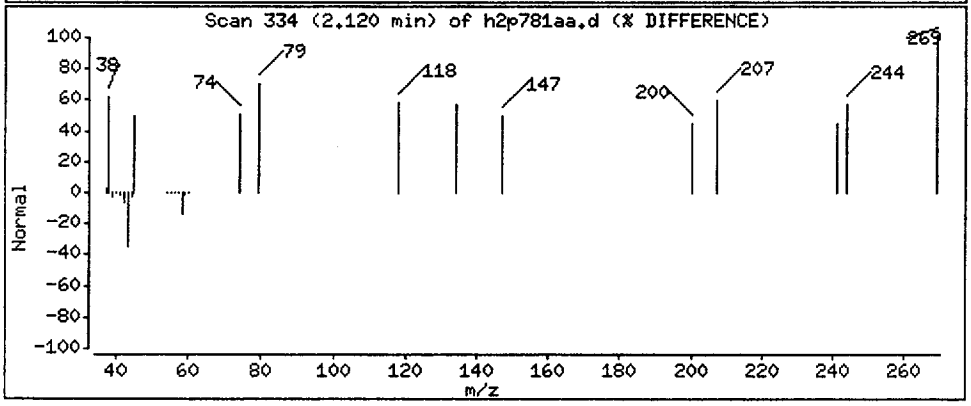












Data File: /chem/gcms/mz.i/Z040606.b/h2p781aa.d

Date : 06-APR-2006 15:36

Client ID: INTRA-LAB BLANK

Instrument: mz.i

Sample Info: H2P781AA,1,3,,BLANK

Purge Volume: 25.0

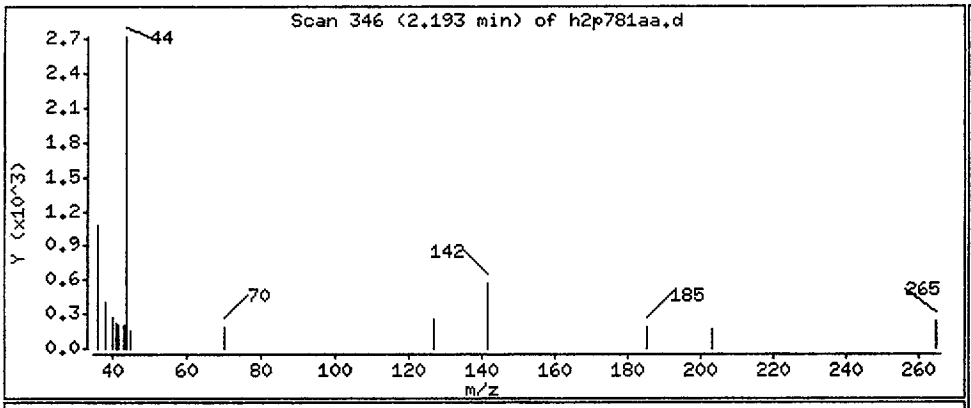
Operator: 063605

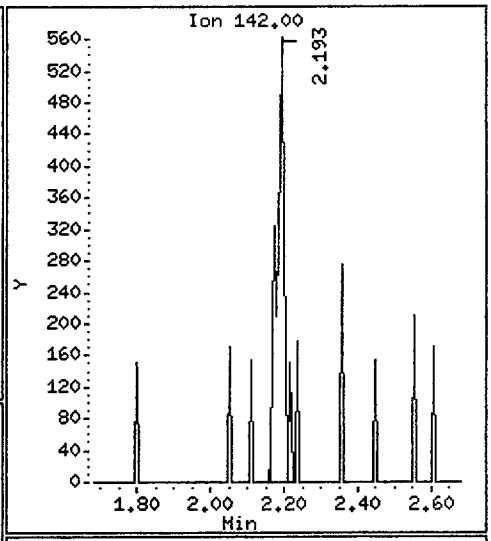
Column phase: J+W 624

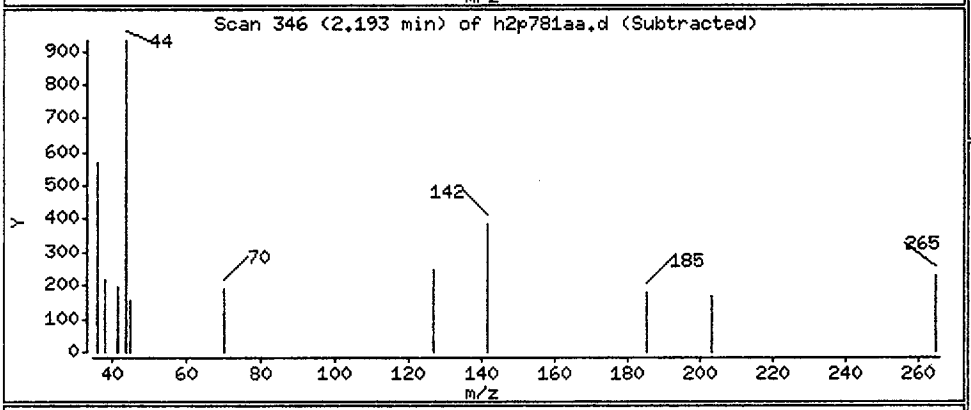
Column diameter: 0.18

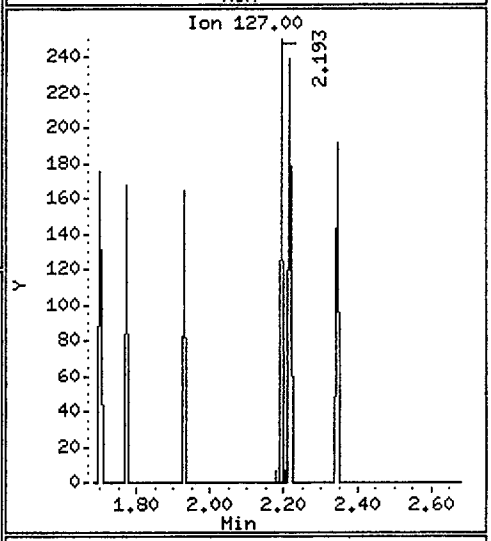
23 *Iodomethane

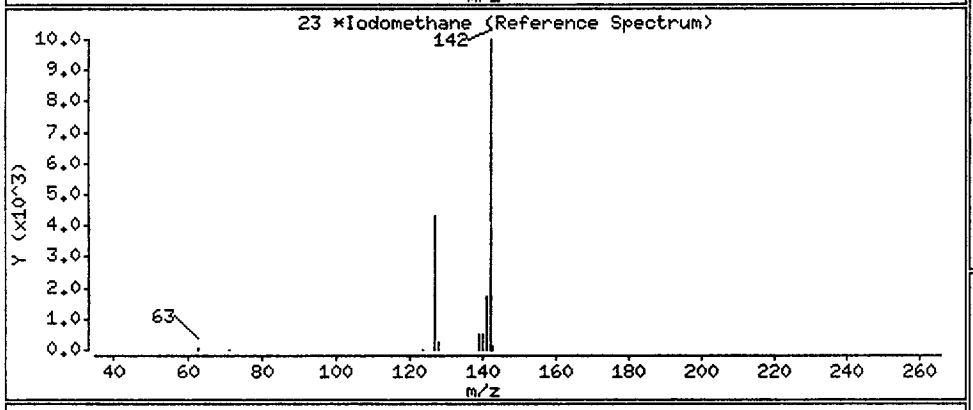
Concentration: 0.55877 ug/L

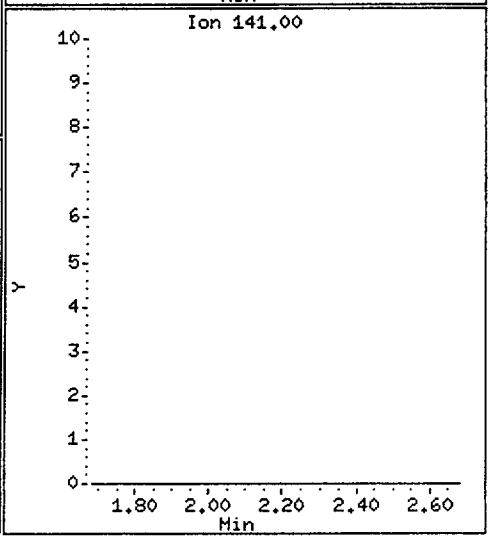


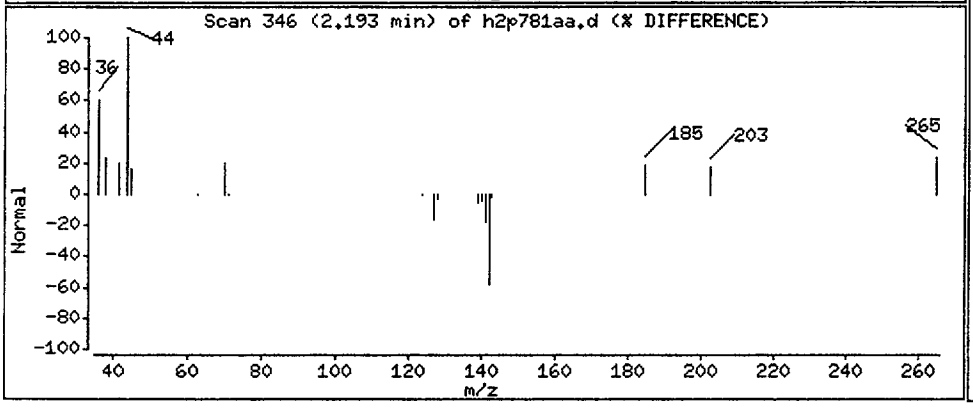












Data File: /chem/gcms/mz.i/Z040606.b/h2p781aa.d

Date : 06-APR-2006 15:36

Client ID: INTRA-LAB BLANK

Instrument: mz.i

Sample Info: H2P781AA,1,3,,BLANK

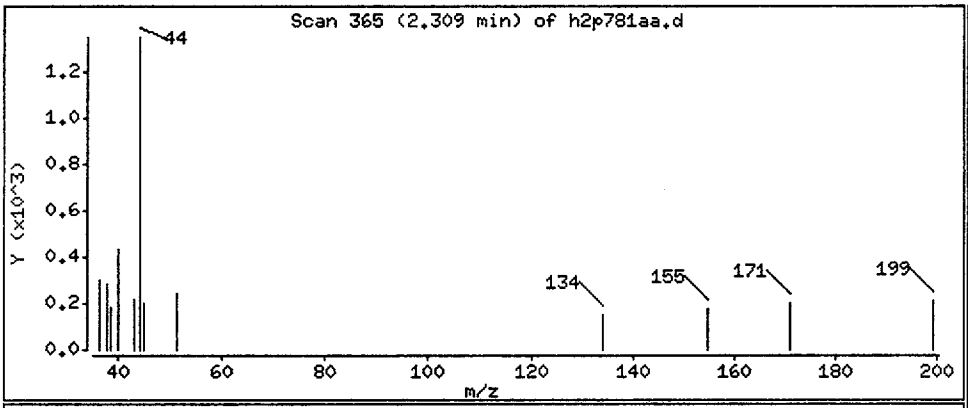
Purge Volume: 25.0

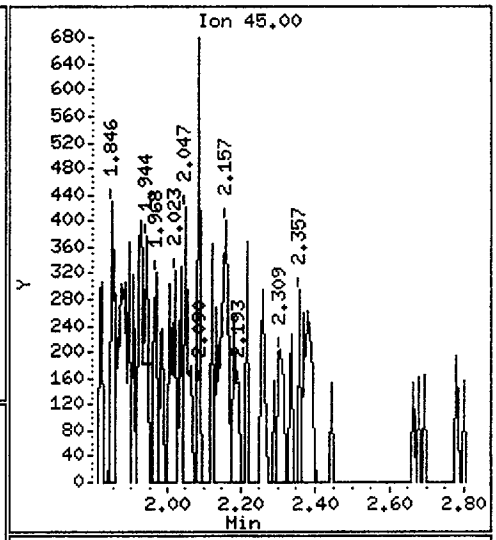
Operator: 063605

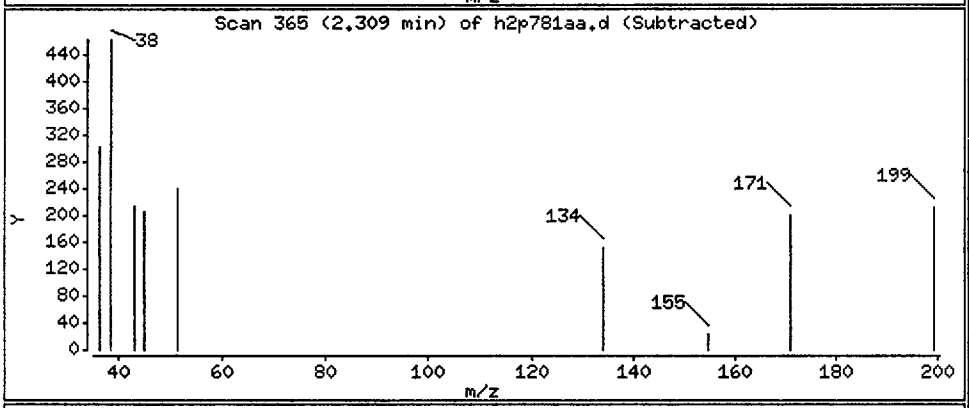
Column phase: J+W 624

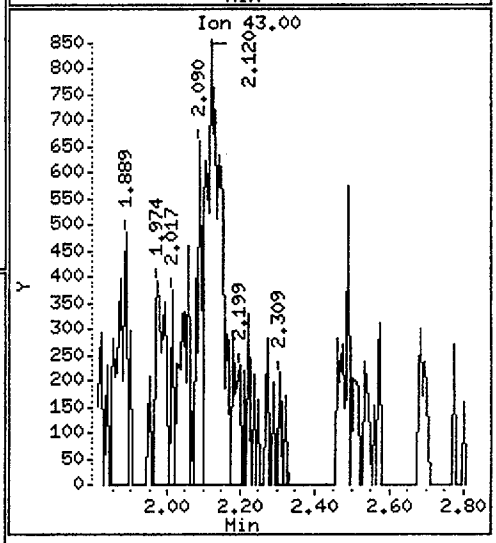
Column diameter: 0.18

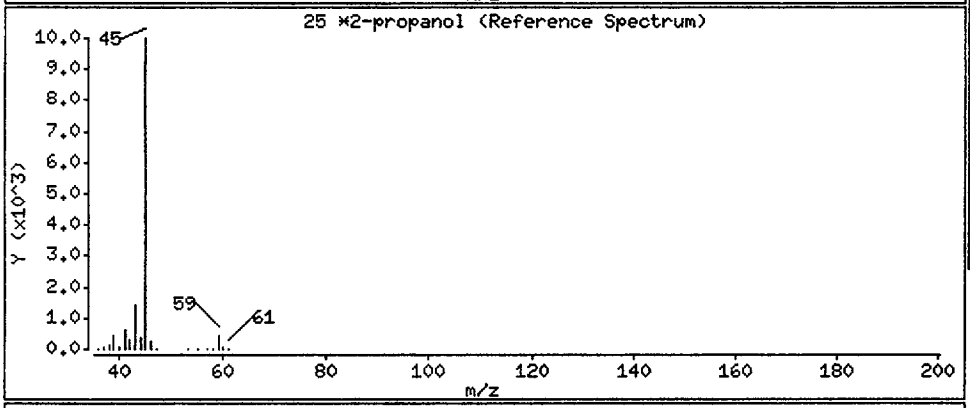
25 *2-propanol

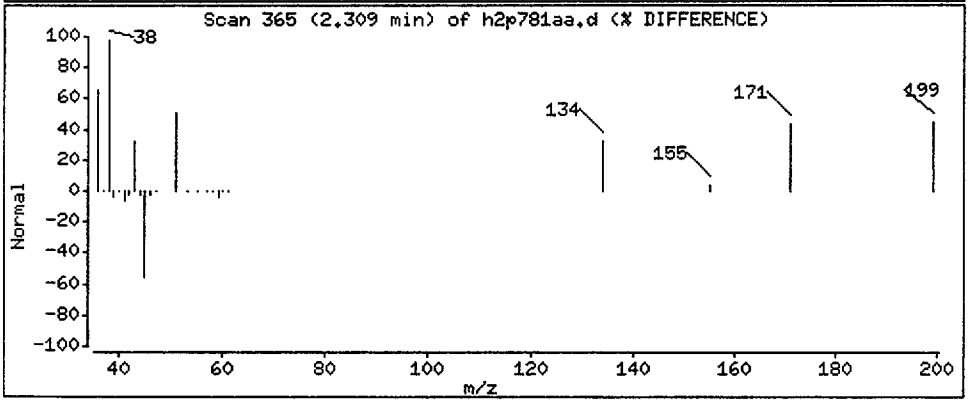












Data File: /chem/gcms/mz.i/Z040606.b/h2p781aa.d

Date : 06-APR-2006 15:36

Client ID: INTRA-LAB BLANK

Instrument: mz.i

Sample Info: H2P781AA,1,3,,BLANK

Purge Volume: 25.0

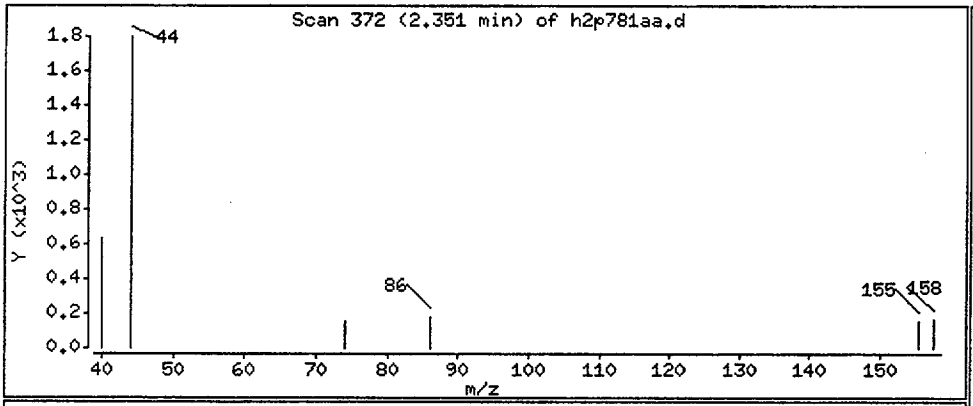
Operator: 063605

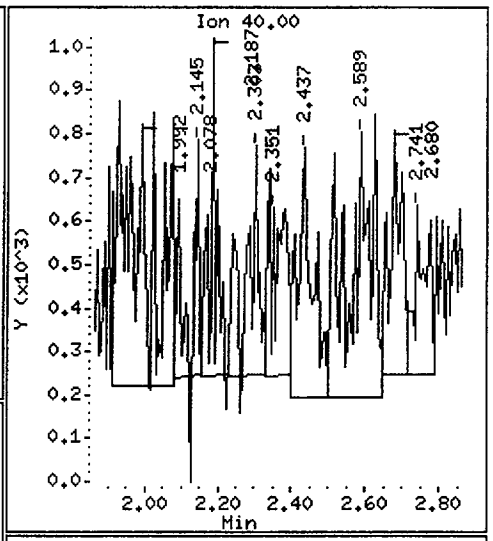
Column phase: J+W 624

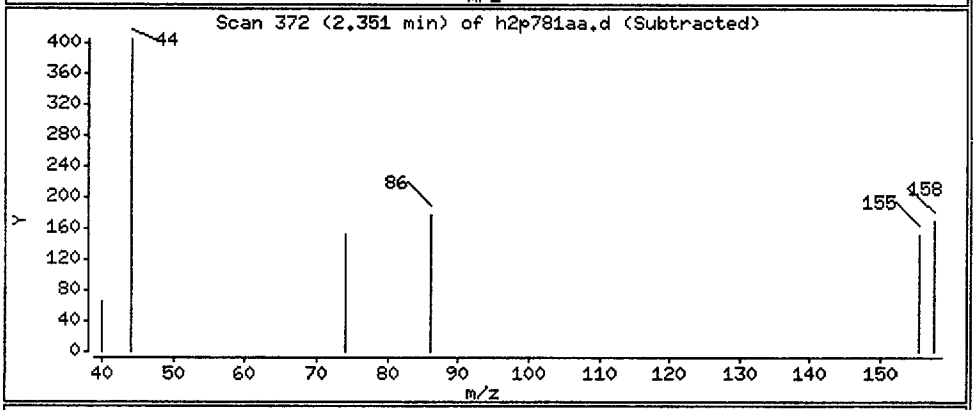
Column diameter: 0.18

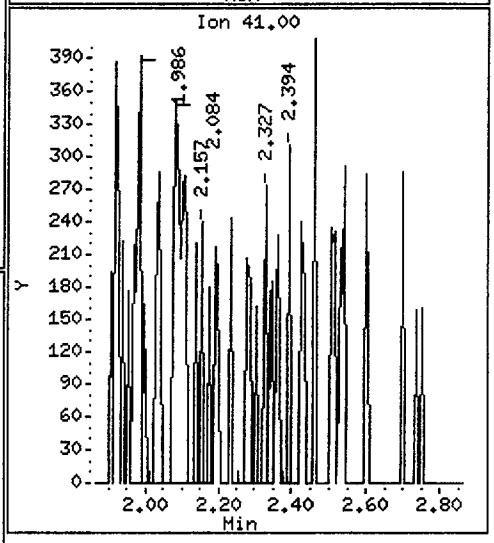
26 *Acetonitrile

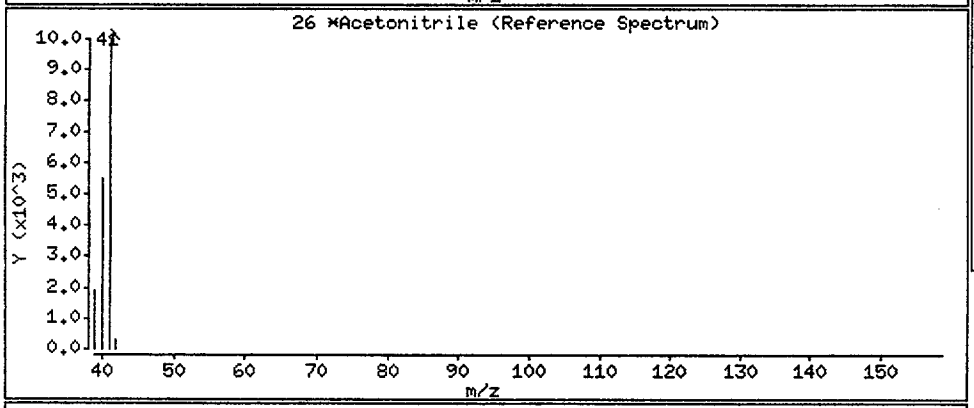
Concentration: 3.3115 ug/L

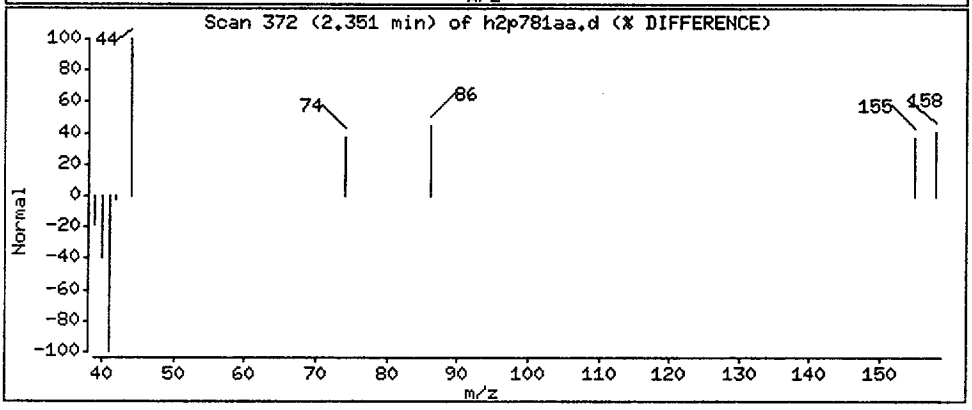












Data File: /chem/gcms/mz.i/Z040606.b/h2p781aa.d

Date : 06-APR-2006 15:36

Client ID: INTRA-LAB BLANK

Instrument: mz.i

Sample Info: H2P781AA,1,3,,BLANK

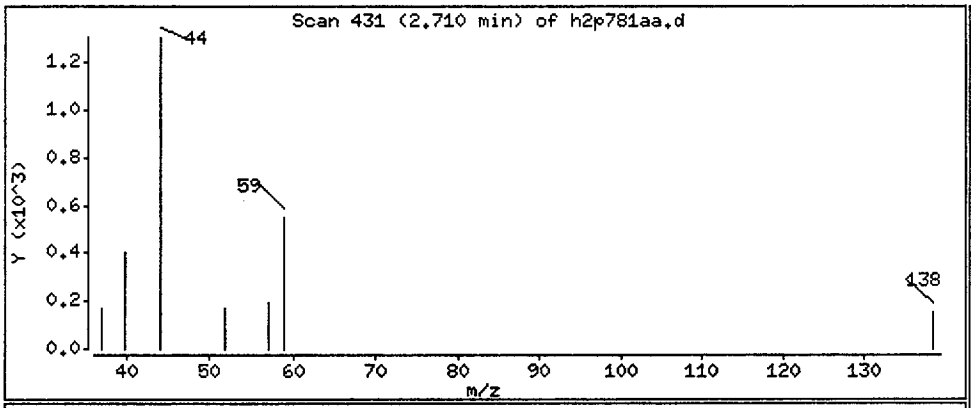
Purge Volume: 25.0

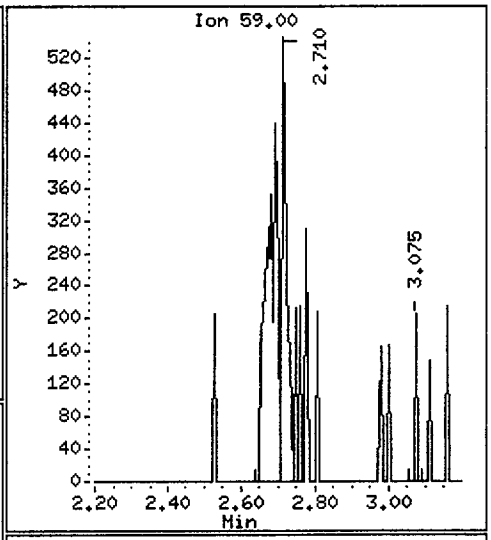
Operator: 063605

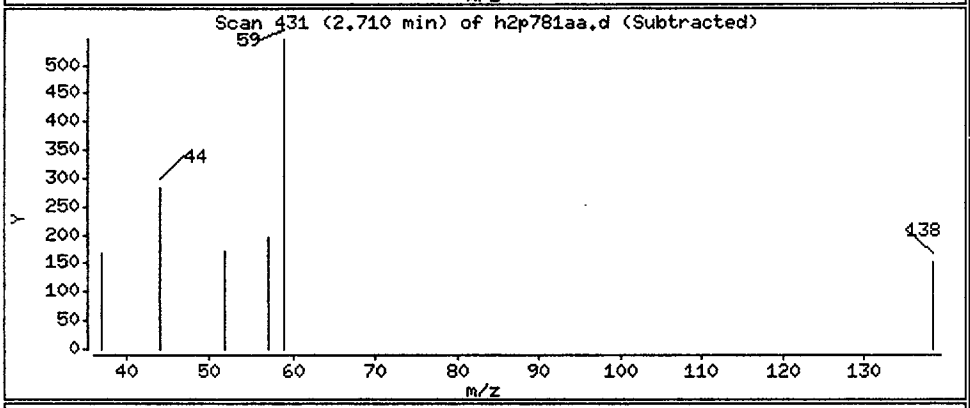
Column phase: J+W 624

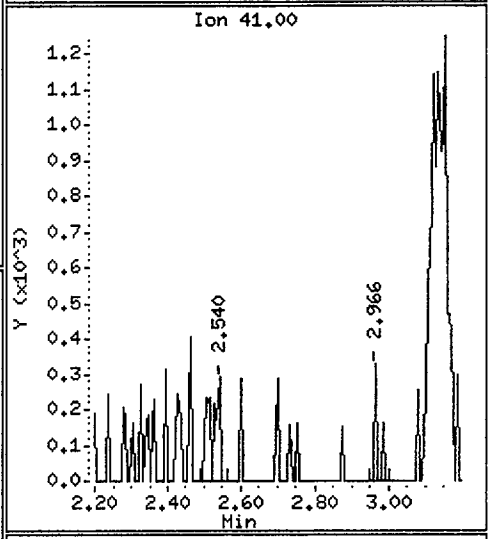
Column diameter: 0.18

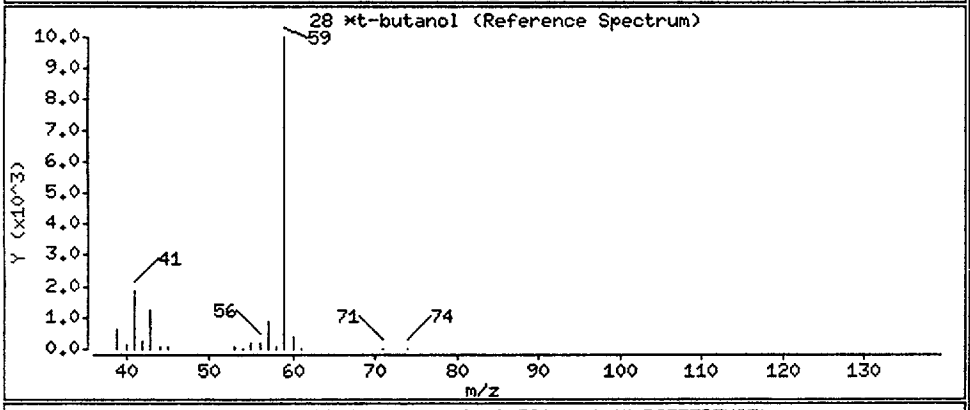
28 *t-butanol

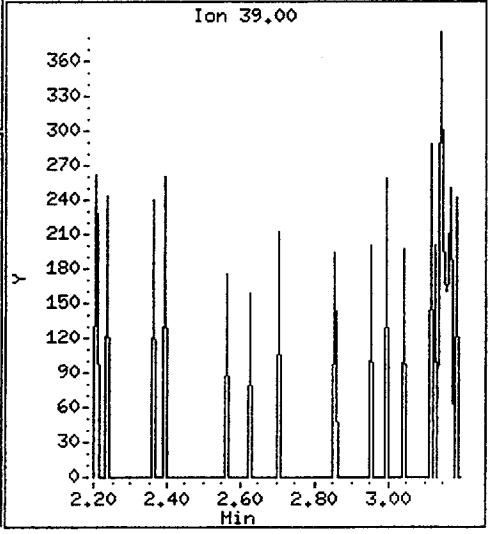


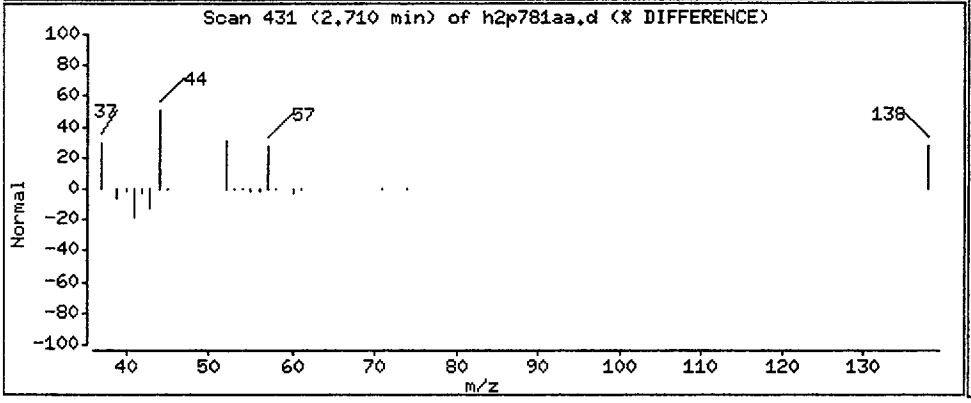












Data File: /chem/gcms/mz.i/Z040606.b/h2p781aa.d

Date : 06-APR-2006 15:36

Client ID: INTRA-LAB BLANK

Instrument: mz.i

Sample Info: H2P781AA,1,3,,BLANK

Purge Volume: 25.0

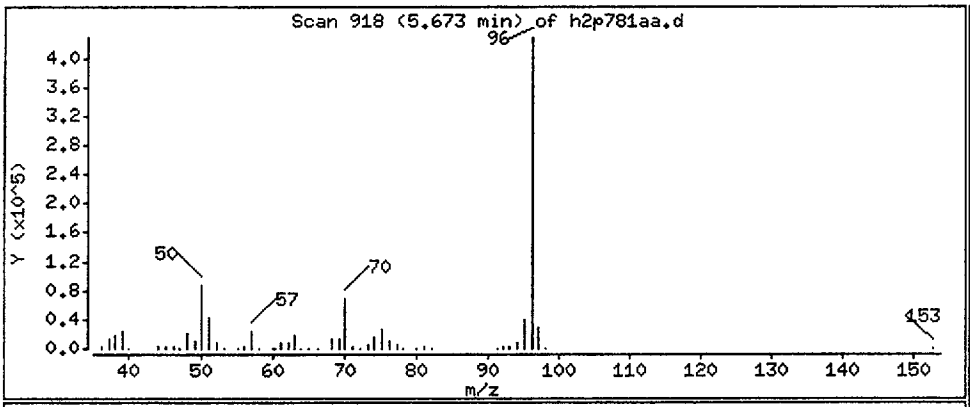
Operator: 063605

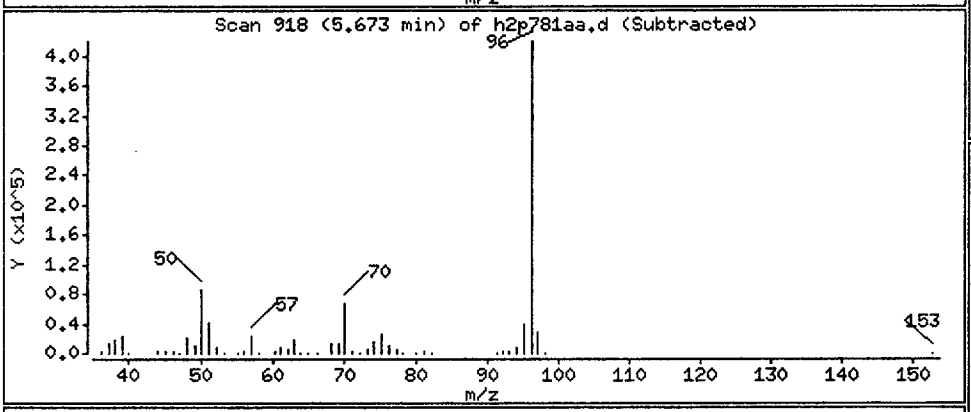
Column phase: J+W 624

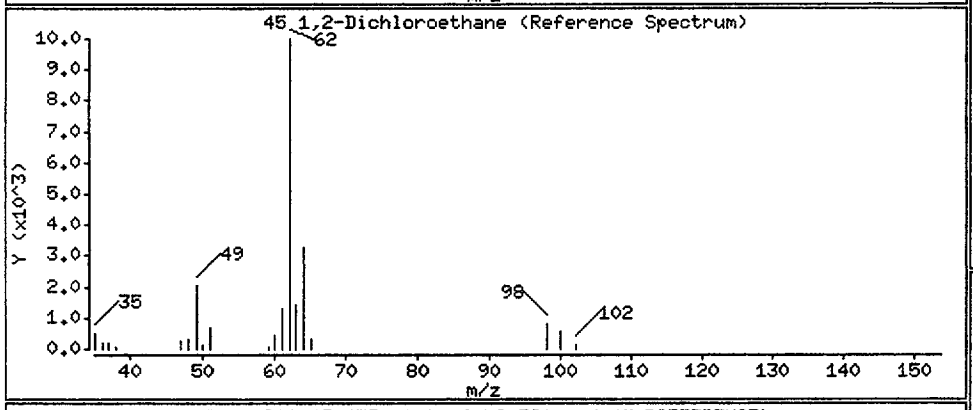
Column diameter: 0.18

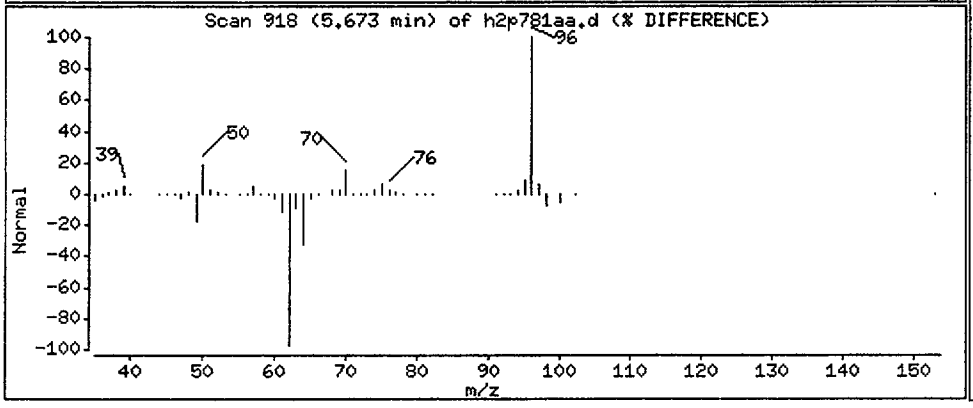
45 1,2-Dichloroethane

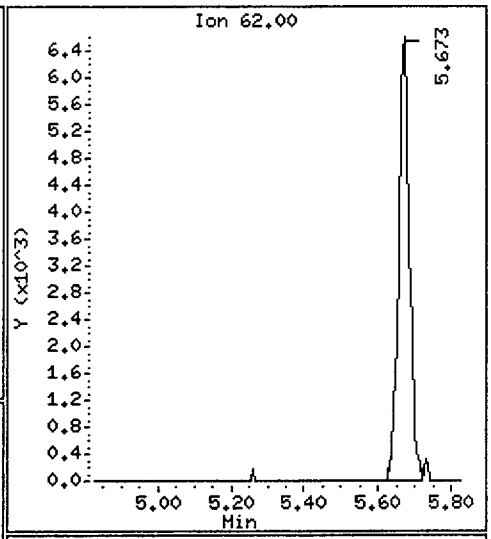
Concentration: 0.76102 ug/L

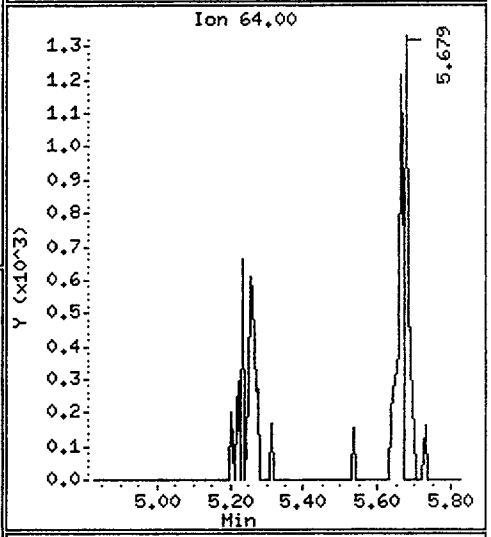


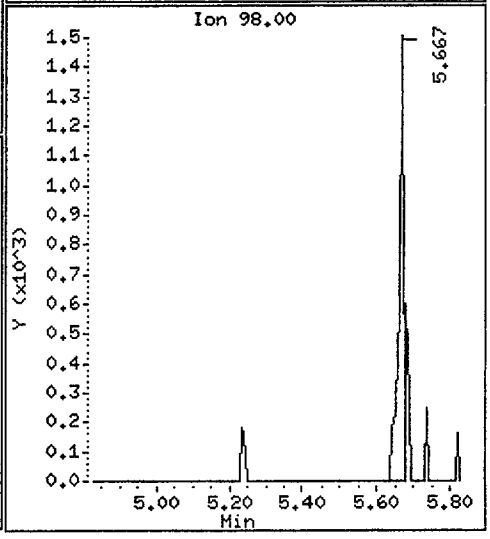












Data File: /chem/gcms/mz.i/Z040606.b/h2p781aa.d

Date : 06-APR-2006 15:36

Client ID: INTRA-LAB BLANK

Instrument: mz.i

Sample Info: H2P781AA,1,3,,BLANK

Purge Volume: 25.0

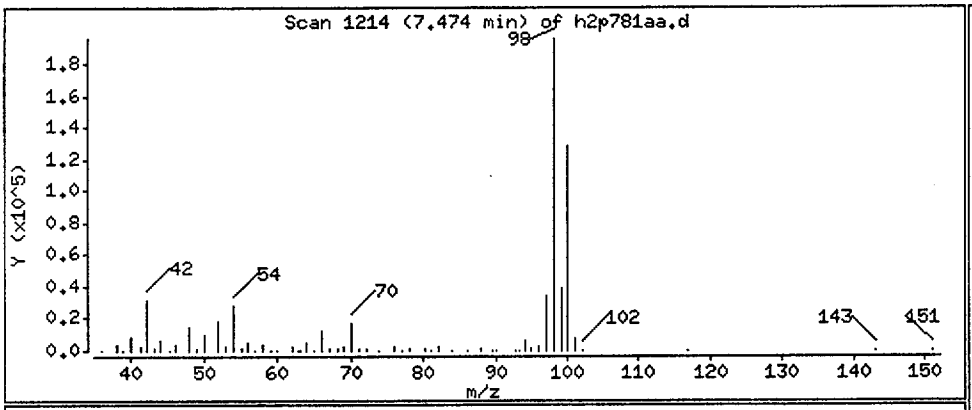
Operator: 063605

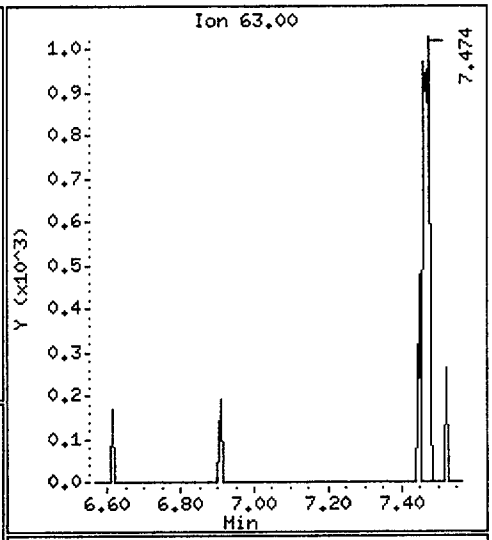
Column phase: J+W 624

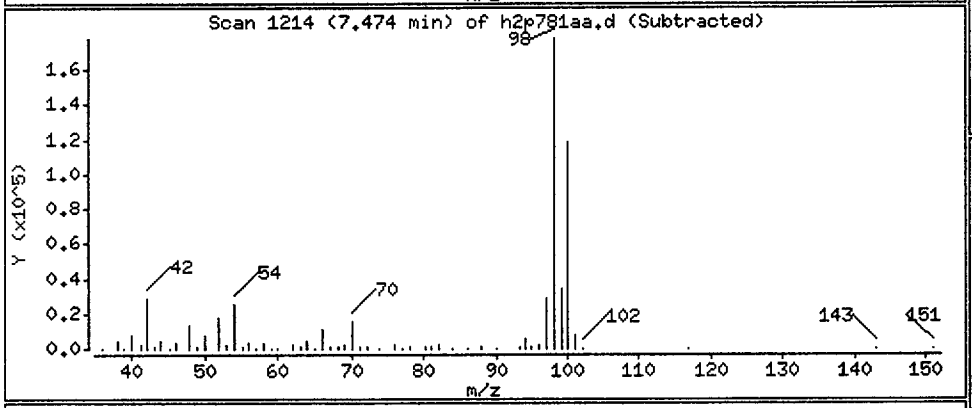
Column diameter: 0.18

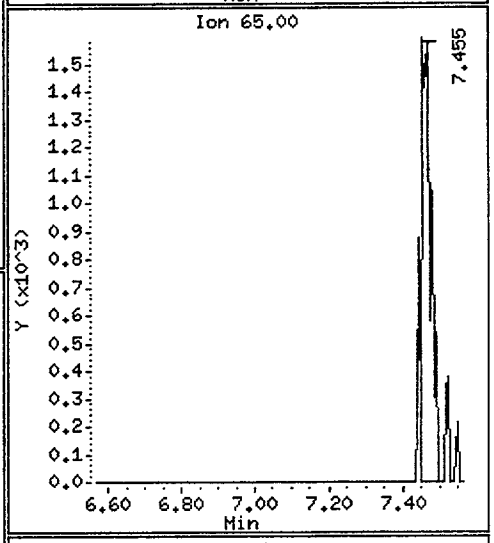
51 *2-Chloroethylvinylether

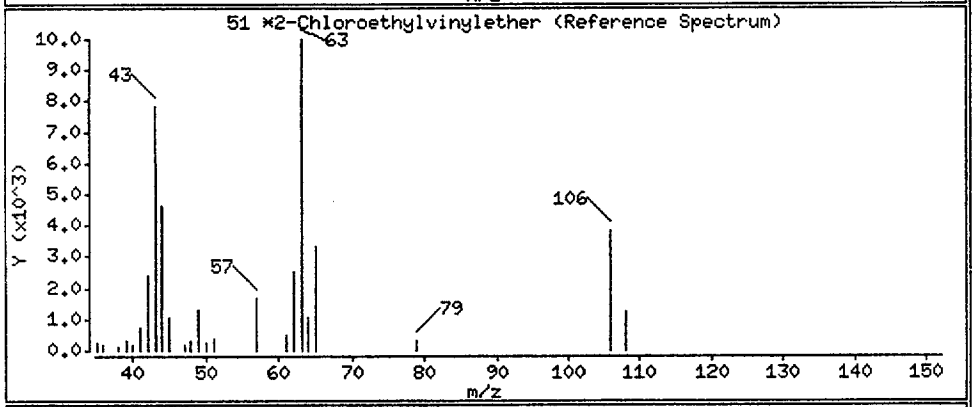
Concentration: 0.20356 ug/L

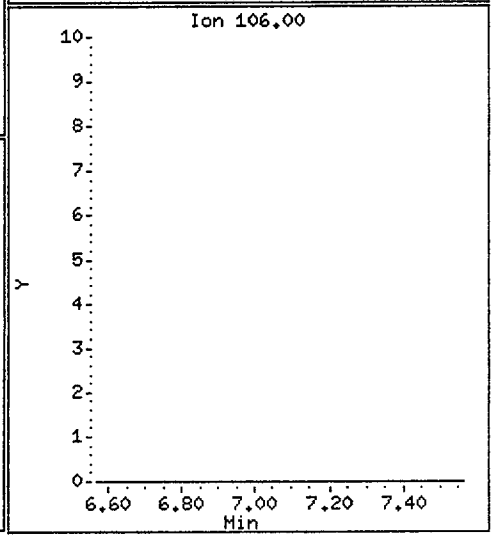


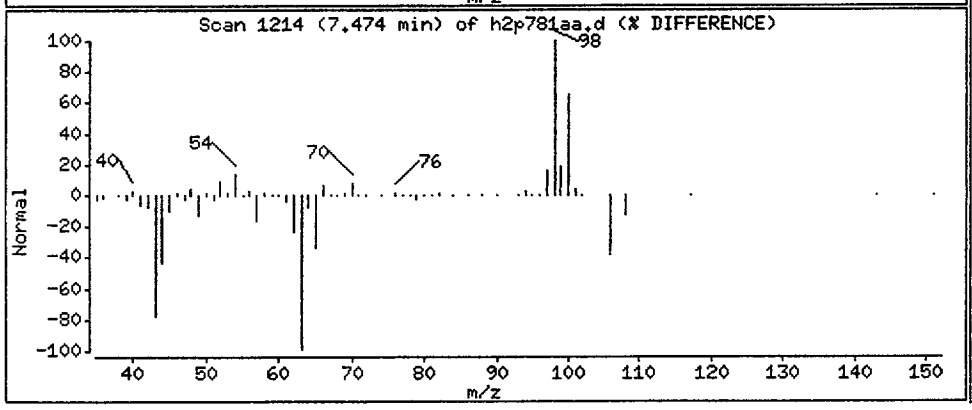












Data File: /chem/gcms/mz.i/Z040606.b/h2p781aa.d

Date : 06-APR-2006 15:36

Client ID: INTRA-LAB BLANK

Instrument: mz.i

Sample Info: H2P781AA,1,3,,BLANK

Purge Volume: 25.0

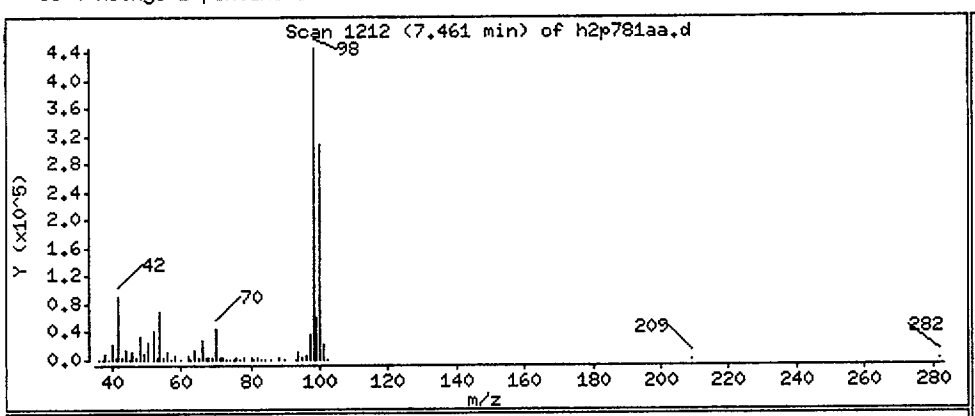
Operator: 063605

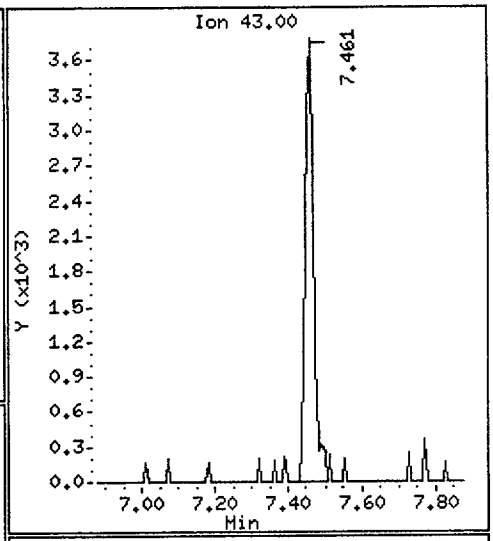
Column phase: J+W 624

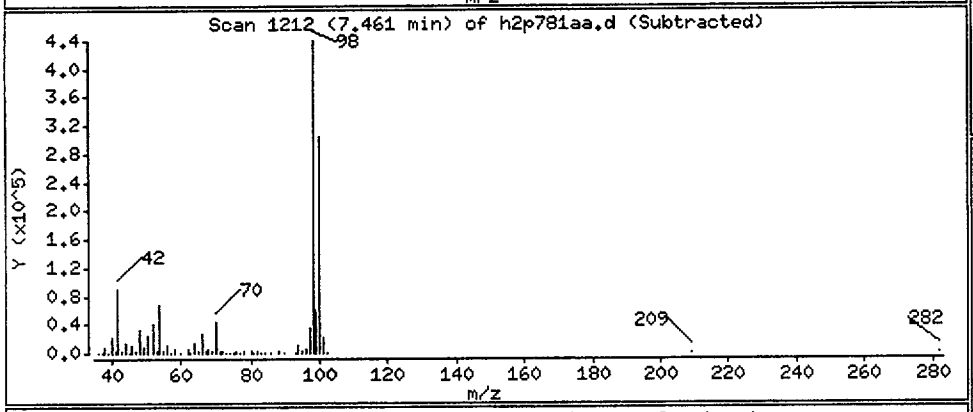
Column diameter: 0.18

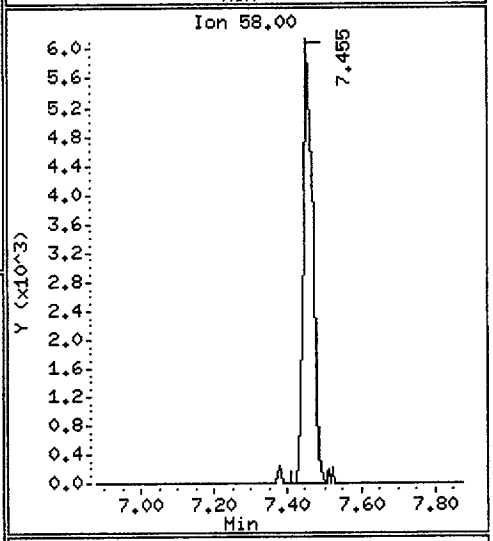
53 4-Methyl-2-pentanone

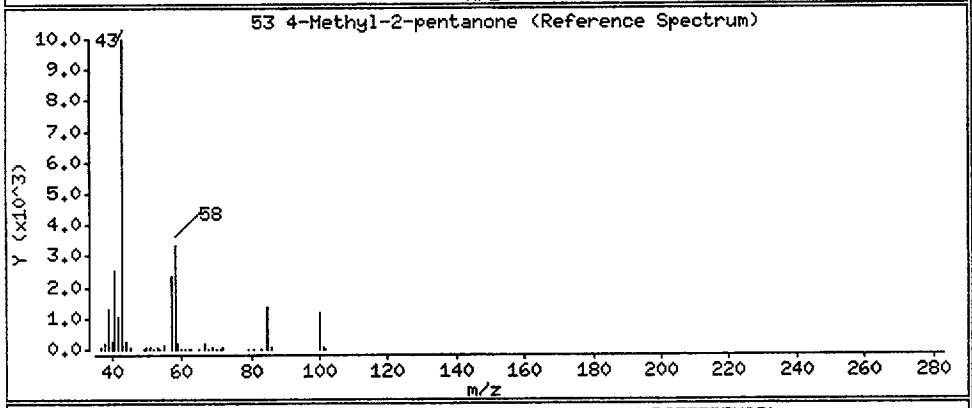
Concentration: 0.72773 ug/L

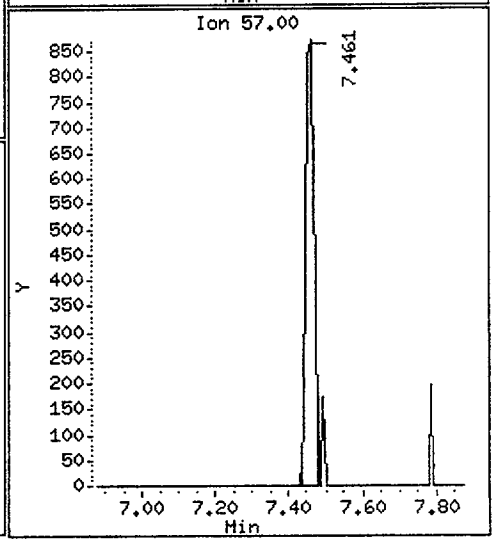


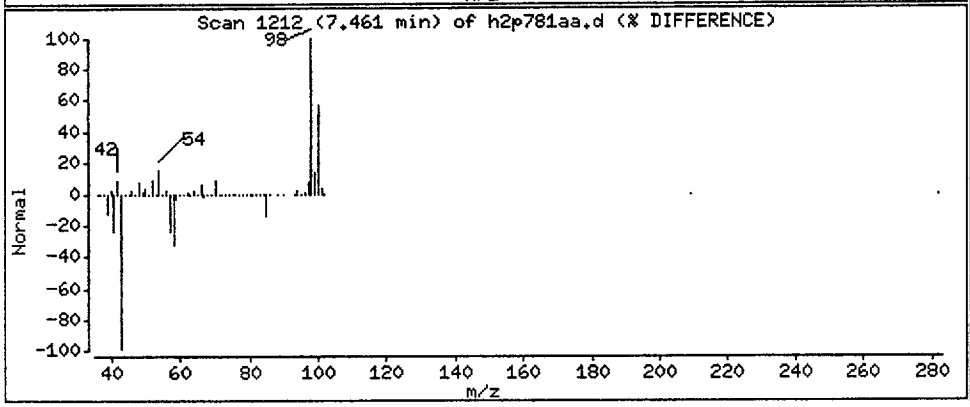












Data File: /chem/gcms/mz.i/Z040606.b/h2p781aa.d

Date : 06-APR-2006 15:36

Client ID: INTRA-LAB BLANK

Instrument: mz.i

Sample Info: H2P781AA,1,3,,BLANK

Purge Volume: 25.0

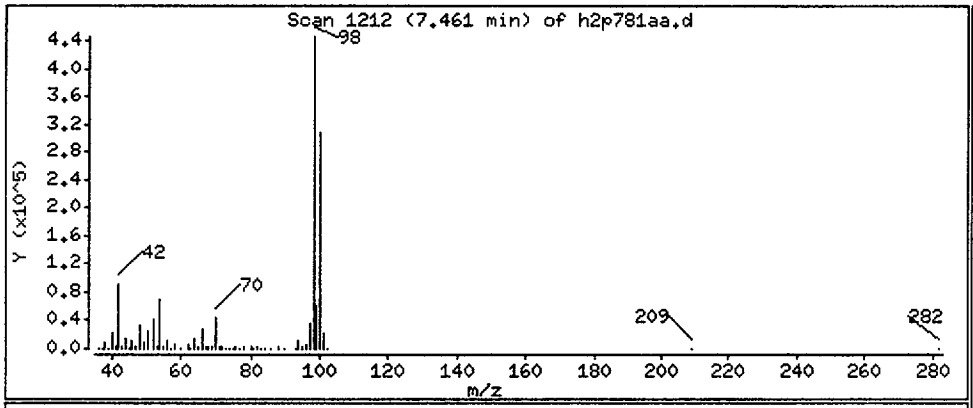
Operator: 063605

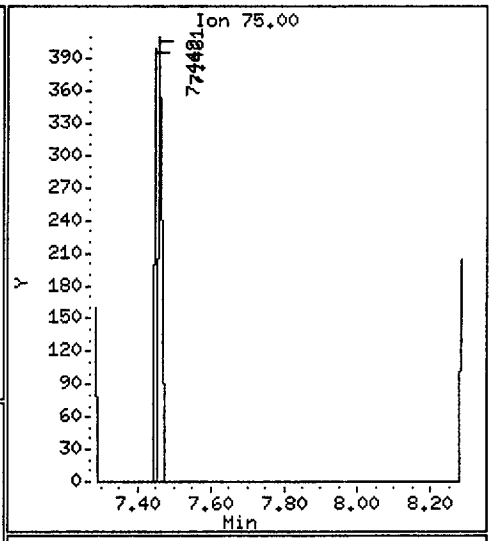
Column phase: J+W 624

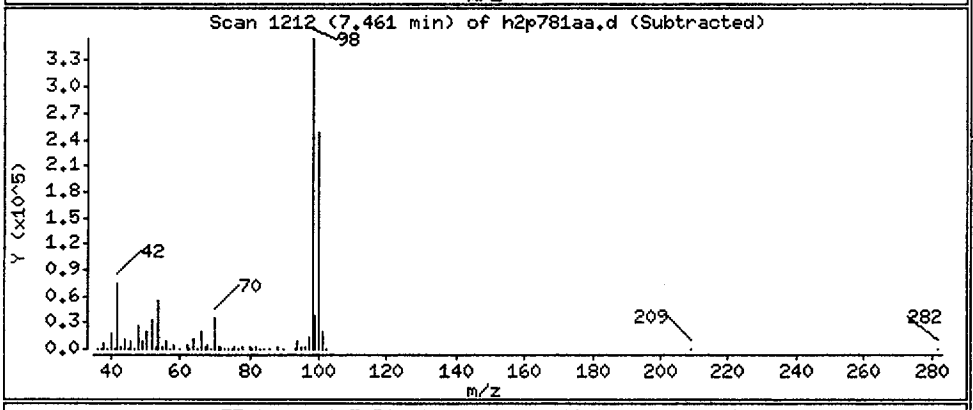
Column diameter: 0.18

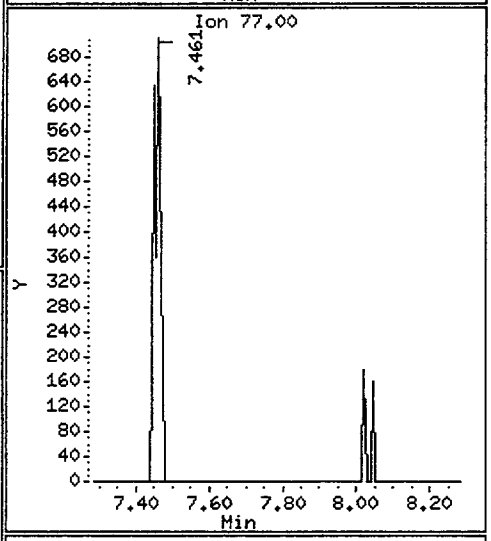
55 trans-1,3-Dichloropropene

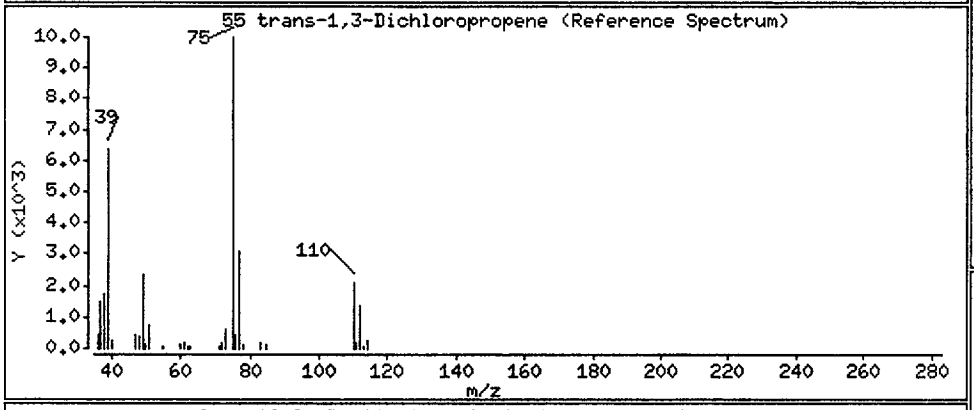
Concentration: 0.63911 ug/L

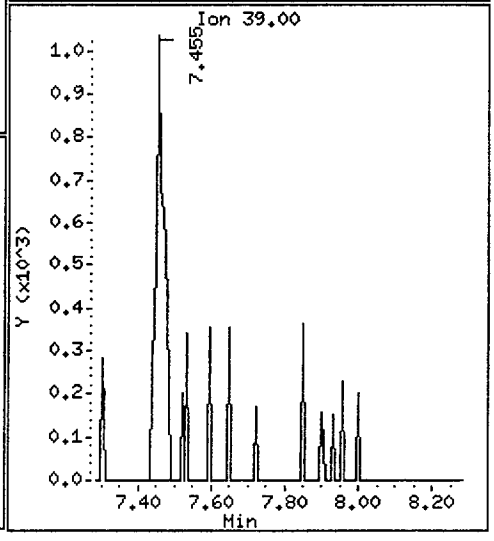


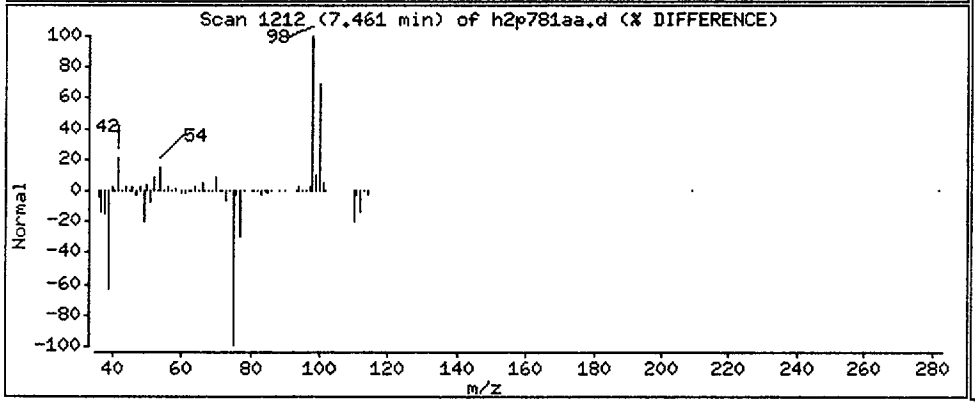












Data File: /chem/gcms/mz.i/Z040606.b/h2p781aa.d

Date : 06-APR-2006 15:36

Client ID: INTRA-LAB BLANK

Instrument: mz.i

Sample Info: H2P781AA,1,3,,BLANK

Purge Volume: 25.0

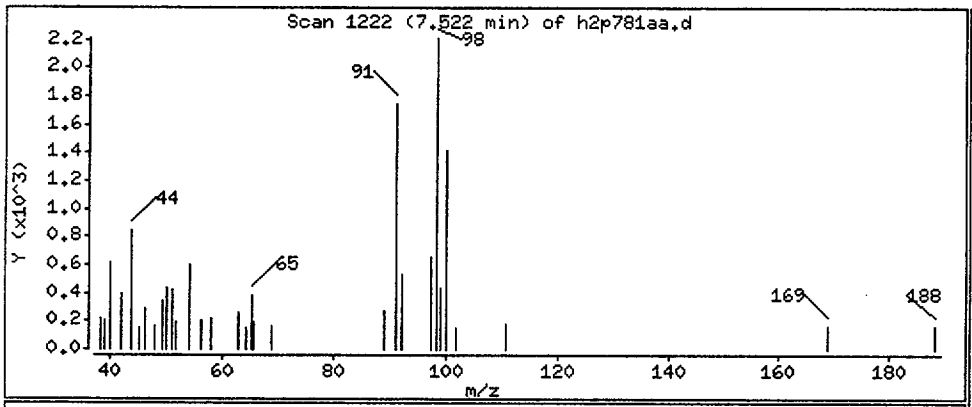
Operator: 063605

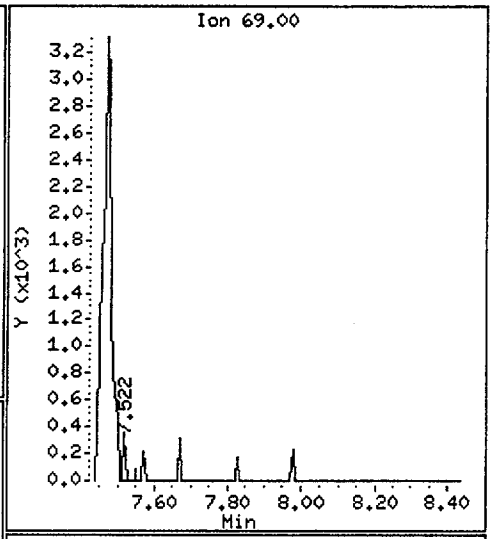
Column phase: J+W 624

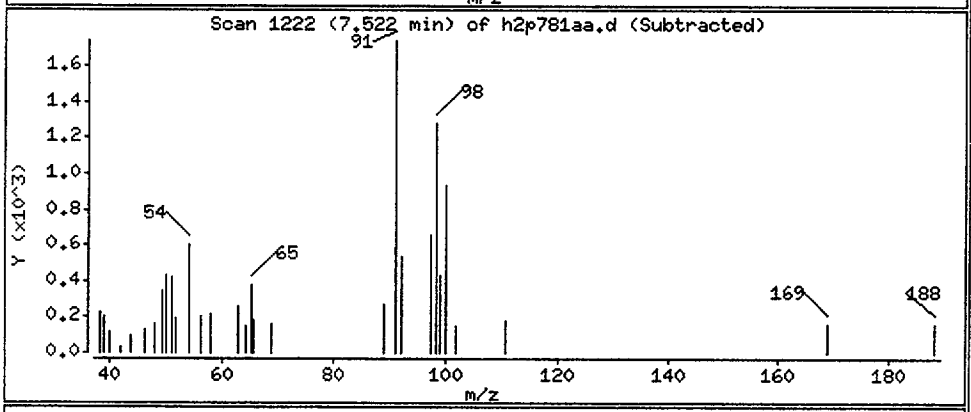
Column diameter: 0.18

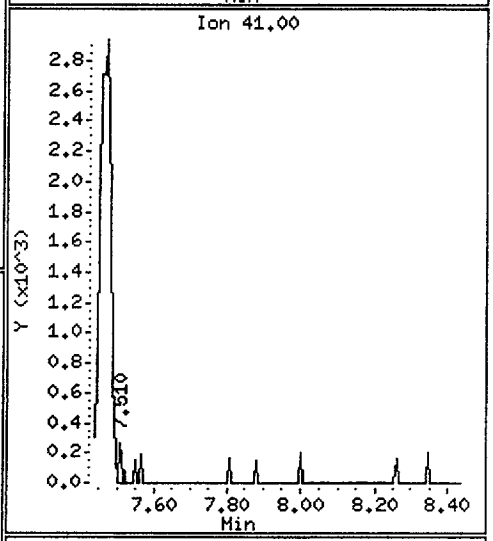
56 xEthyl Methacrylate

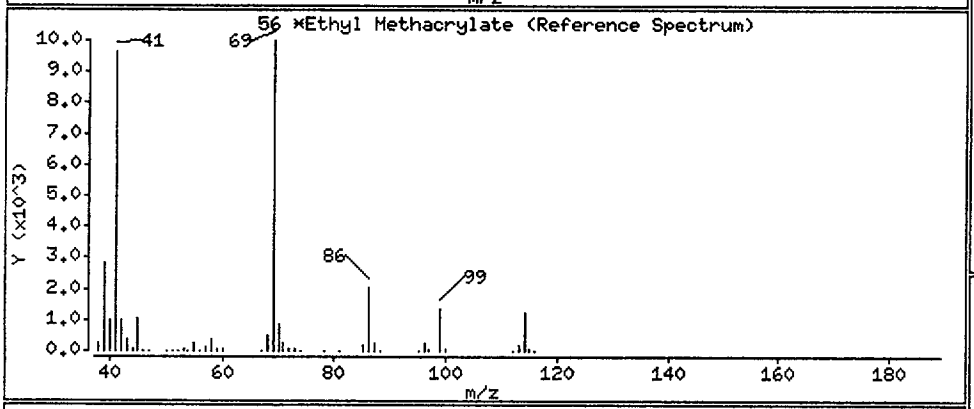
Concentration: 0.022912 ug/L

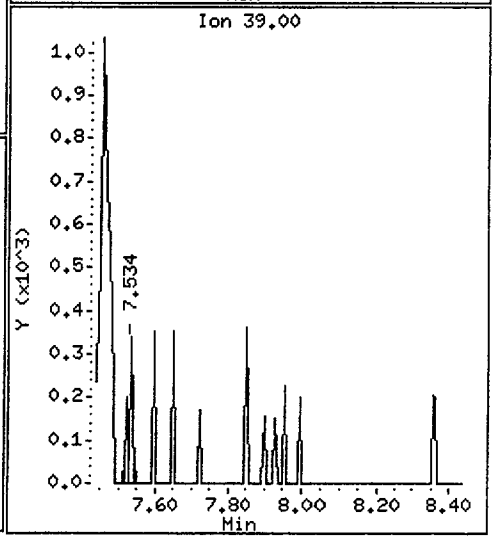


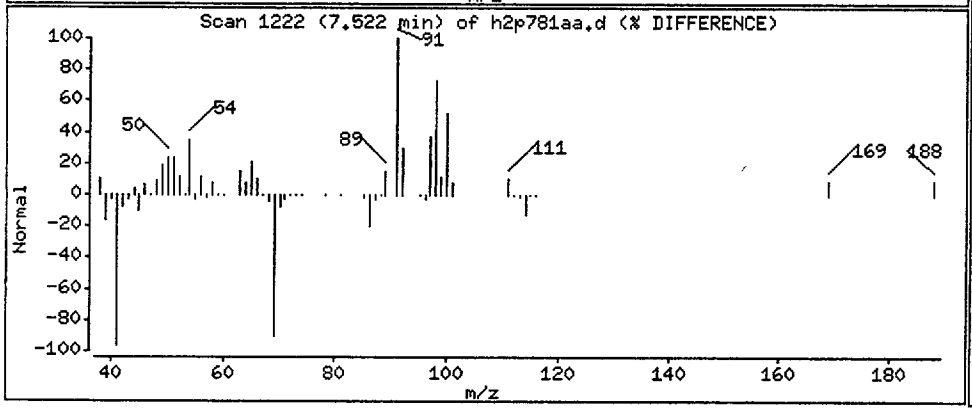












Data File: /chem/gcms/mz.i/Z040606.b/h2p781aa.d

Date : 06-APR-2006 15:36

Client ID: INTRA-LAB BLANK

Instrument: mz.i

Sample Info: H2P781AA,1,3,,BLANK

Purge Volume: 25.0

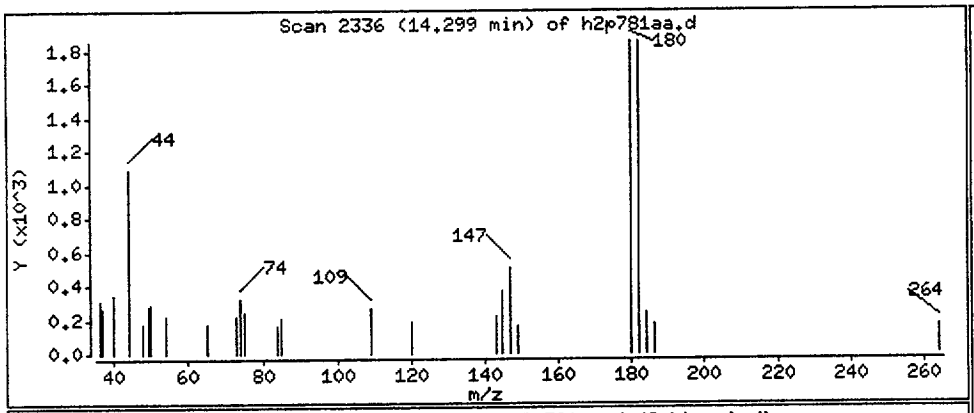
Operator: 063605

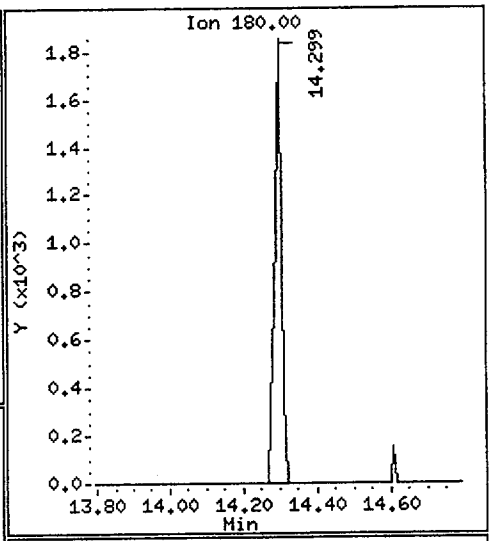
Column phase: J+W 624

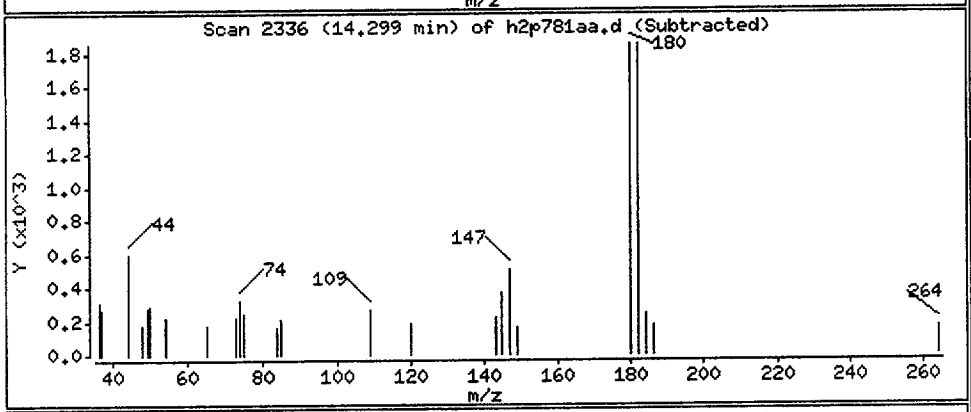
Column diameter: 0.18

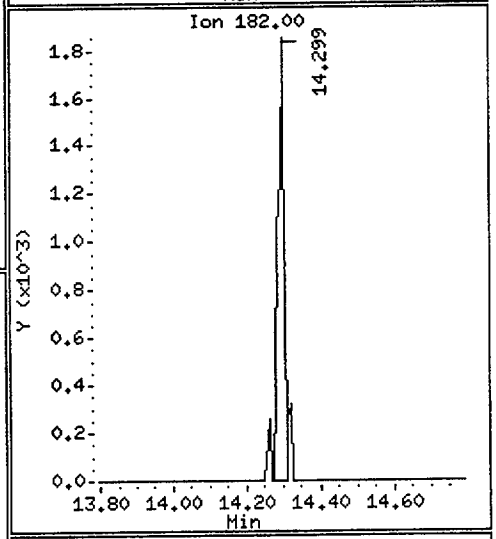
89 1,2,4-Trichlorobenzene

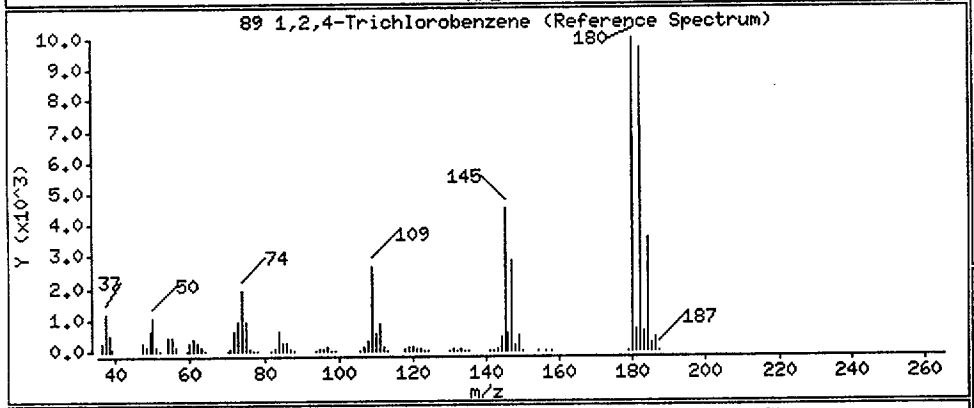
Concentration: 0.14045 ug/L

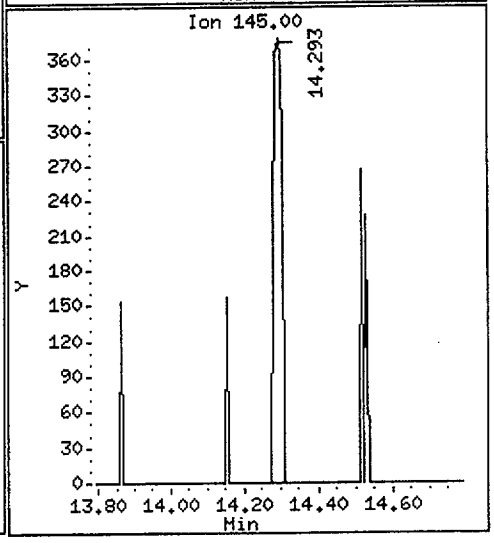


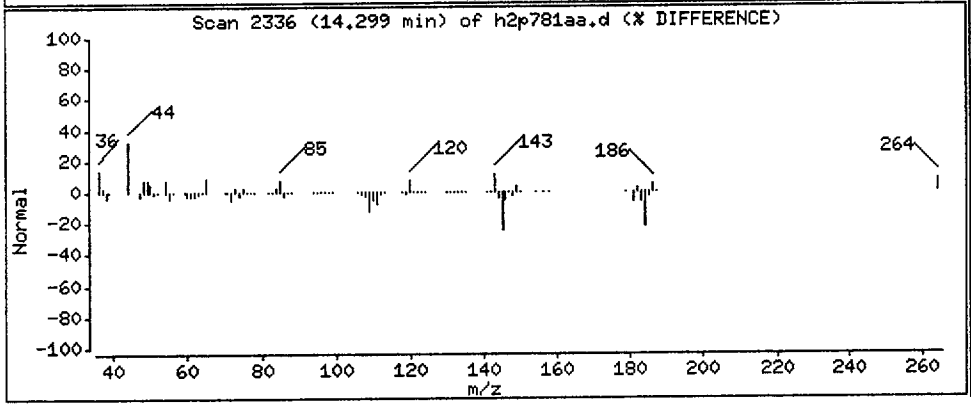












Data File: /chem/gcms/mz.i/Z040606.b/h2p781aa.d

Date : 06-APR-2006 15:36

Client ID: INTRA-LAB BLANK

Instrument: mz.i

Sample Info: H2P781AA,1,3,,BLANK

Purge Volume: 25.0

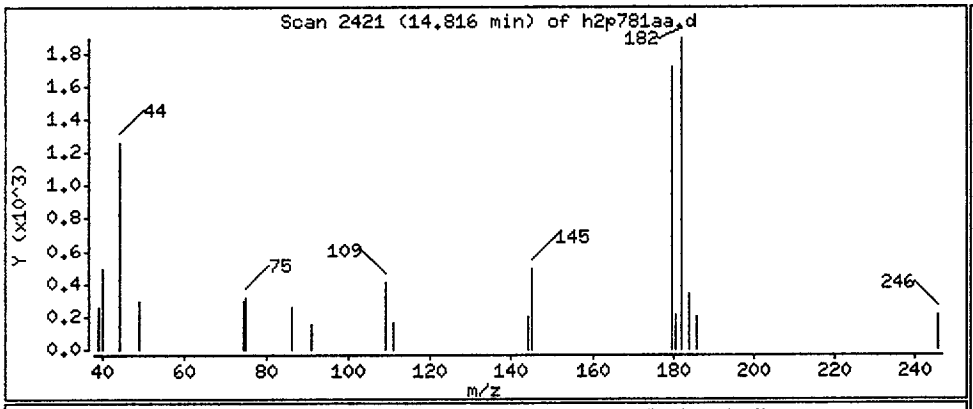
Operator: 063605

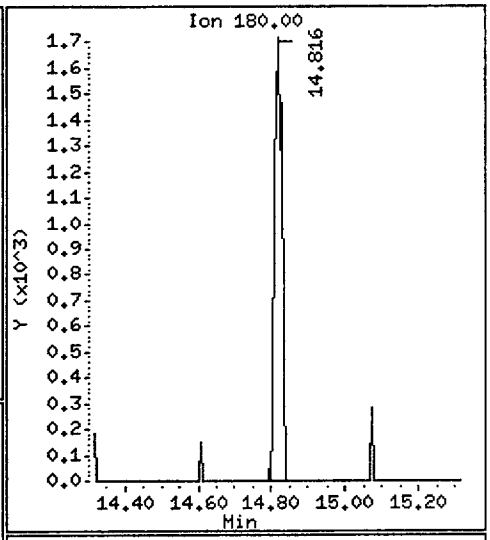
Column phase: J+W 624

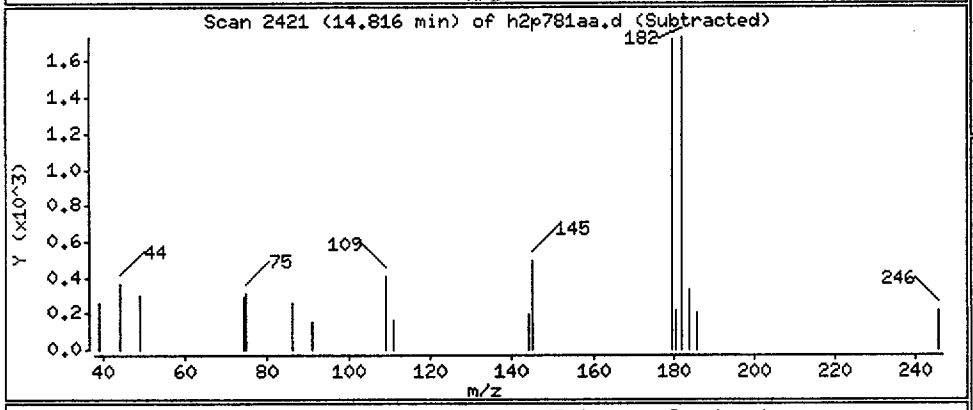
Column diameter: 0.18

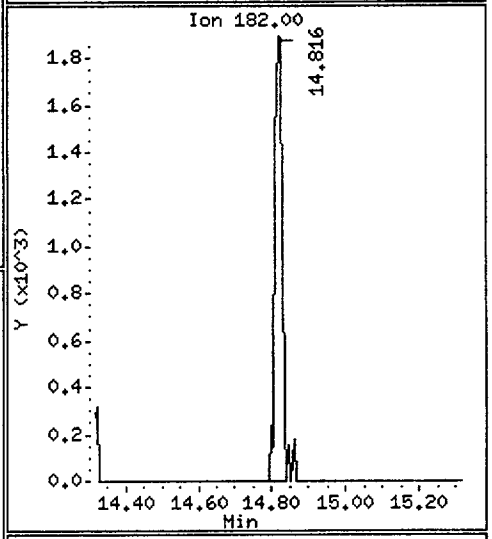
92 1,2,3-Trichlorobenzene

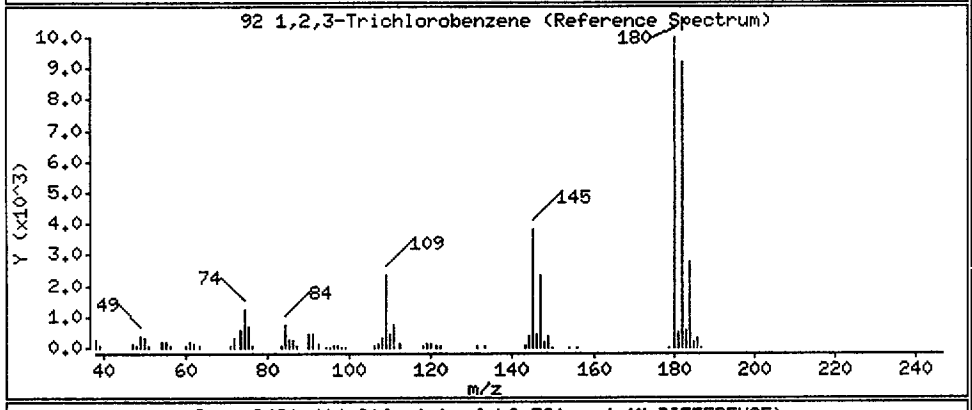
Concentration: 0.21088 ug/L

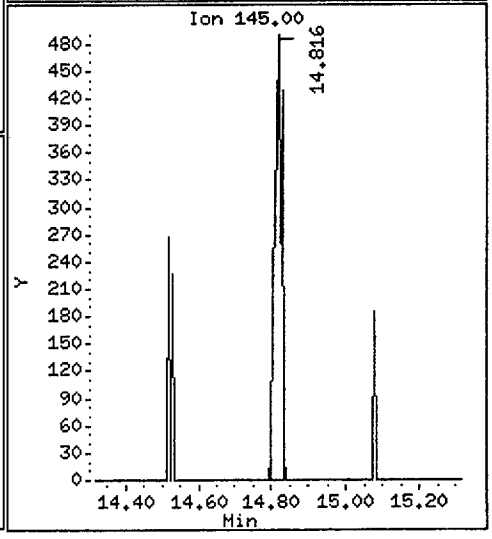


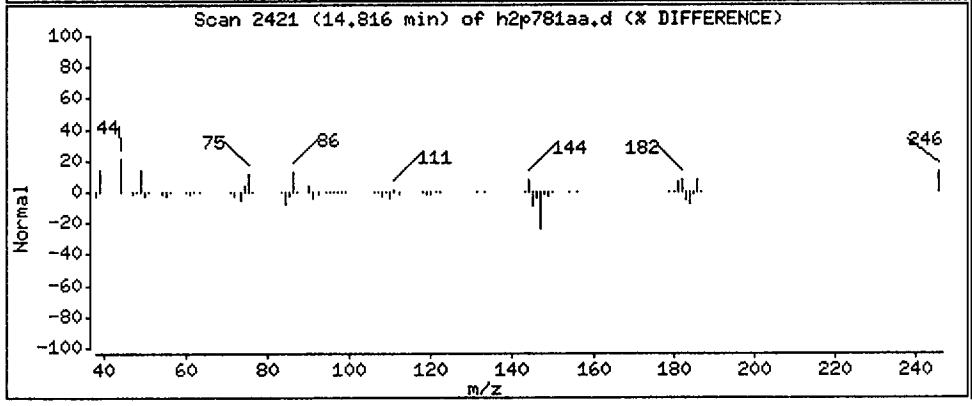












Data File: /var/chem/gcms/mz.i/Z040606.b/h2p781aa.d
Report Date: 07-Apr-2006 16:32

STL Knoxville

Volatile Organics by GC/MS

Data file : /var/chem/gcms/mz.i/Z040606.b/h2p781aa.d
Lab Smp Id: H2P781AA Client Smp ID: INTRA-LAB BLANK
Inj Date : 06-APR-2006 15:36
Operator : 063605 Inst ID: mz.i
Smp Info : H2P781AA,1,3,,BLANK
Misc Info : Z040606,8260B_LM,all.sub
Comment : Volatile Organics by GC/MS
Method : /var/chem/gcms/mz.i/Z040606.b/8260B_LM.m
Meth Date : 07-Apr-2006 16:31 tillerm Quant Type: ISTD
Cal Date : 24-MAR-2006 13:51 Cal File: icvzc248.d
Als bottle: 1 QC Sample: METHOD BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50
Processing Host: qmidhp01

Concentration Formula: Amt * DF * Uf*Vt/(Vo*1000) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Unit Correction factor
Vt	25000.00000	Sample Volume Purged
Vo	25.00000	Sample Volume Used

Cpnd Variable Local Compound Variable

ISTD	RT	HEIGHT	AMOUNT
* 1 Fluorobenzene	5.673	990555	10.000

	CONCENTRATIONS				QUANT		
RT	HEIGHT	ON-COL(ug/L)	FINAL(ug/L)	QUAL	LIBRARY	LIB ENTRY	CPND #
0.910	329975	3.33121331	3.3312	5	NIST05.1	80	1

Carbon dioxide/Air CAS #: 124-38-9

MT 4/7/06

Data File: /var/chem/gcms/mz.i/Z040606.b/h2p781aa.d

Date : 06-APR-2006 15:36

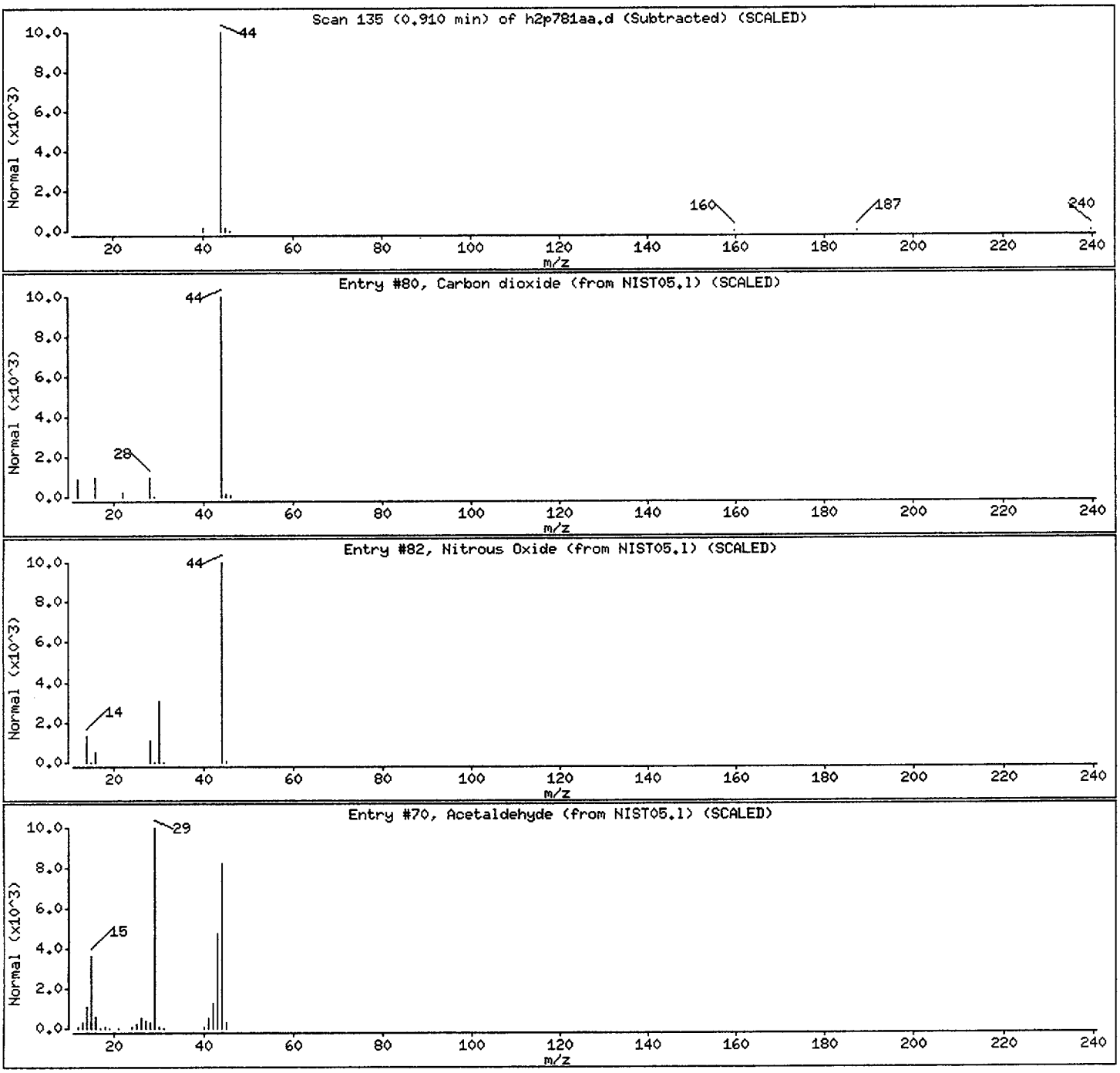
Client ID: INTRA-LAB BLANK Instrument: mz.i

Sample Info: H2P781AA,1,3,,BLANK

Purge Volume: 25.0 Operator: 063605

Column phase: J+W 624 Column diameter: 0.18

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Carbon dioxide	124-38-9	NIST05.l	80	5	CO2	44
Nitrous Oxide	10024-97-2	NIST05.l	82	3	N2O	44
Acetaldehyde	75-07-0	NIST05.l	70	3	C2H4O	44



LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: H6D030205 **Work Order #...:** H2P781AC **Matrix.....:** WATER
LCS Lot-Sample#: H6D060000-330
Prep Date.....: 04/06/06 **Analysis Date..:** 04/06/06
Prep Batch #...: 6096330
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Acetone	72	(49 - 141)	SW846 8260B
Benzene	**89**	**(80 - 121)**	**SW846 8260B**
Bromobenzene	101	(80 - 122)	SW846 8260B
Bromochloromethane	96	(75 - 124)	SW846 8260B
Bromodichloromethane	95	(73 - 127)	SW846 8260B
Bromoform	113	(63 - 141)	SW846 8260B
Bromomethane	107	(44 - 157)	SW846 8260B
2-Butanone	87	(61 - 139)	SW846 8260B
n-Butylbenzene	95	(62 - 128)	SW846 8260B
sec-Butylbenzene	94	(67 - 127)	SW846 8260B
tert-Butylbenzene	96	(68 - 123)	SW846 8260B
Carbon disulfide	97	(71 - 126)	SW846 8260B
Carbon tetrachloride	87	(66 - 133)	SW846 8260B
Chlorobenzene	**94**	**(80 - 121)**	**SW846 8260B**
Chlorodibromomethane	91	(71 - 132)	SW846 8260B
Chloroethane	110	(61 - 151)	SW846 8260B
Chloroform	94	(76 - 120)	SW846 8260B
Chloromethane	111	(56 - 140)	SW846 8260B
2-Chlorotoluene	90	(68 - 123)	SW846 8260B
4-Chlorotoluene	95	(68 - 125)	SW846 8260B
1,2-Dibromo-3-chloro-propane	77	(51 - 143)	SW846 8260B
1,2-Dibromoethane	93	(78 - 120)	SW846 8260B
Dibromomethane	94	(72 - 125)	SW846 8260B
1,2-Dichlorobenzene	96	(76 - 120)	SW846 8260B
1,3-Dichlorobenzene	94	(77 - 120)	SW846 8260B
1,4-Dichlorobenzene	93	(75 - 120)	SW846 8260B
Dichlorodifluoromethane	92	(48 - 147)	SW846 8260B
1,1-Dichloroethane	95	(70 - 127)	SW846 8260B
1,2-Dichloroethane	98	(71 - 125)	SW846 8260B
cis-1,2-Dichloroethene	92	(76 - 123)	SW846 8260B
trans-1,2-Dichloroethene	89	(75 - 124)	SW846 8260B
1,1-Dichloroethene	**105**	**(70 - 128)**	**SW846 8260B**
1,2-Dichloropropane	97	(77 - 122)	SW846 8260B

(Continued on next page)

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: H6D030205 **Work Order #...:** H2P781AC **Matrix.....:** WATER
LCS Lot-Sample#: H6D060000-330

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
1,3-Dichloropropane	90	(78 - 120)	SW846 8260B
2,2-Dichloropropane	87	(48 - 149)	SW846 8260B
cis-1,3-Dichloropropene	94	(69 - 128)	SW846 8260B
trans-1,3-Dichloropropene	78	(61 - 132)	SW846 8260B
1,1-Dichloropropene	96	(78 - 122)	SW846 8260B
Ethylbenzene	97	(79 - 124)	SW846 8260B
Hexachlorobutadiene	101	(67 - 123)	SW846 8260B
2-Hexanone	106	(63 - 132)	SW846 8260B
Isopropylbenzene	98	(77 - 126)	SW846 8260B
p-Isopropyltoluene	95	(67 - 125)	SW846 8260B
Methylene chloride	97	(59 - 131)	SW846 8260B
4-Methyl-2-pentanone	103	(64 - 133)	SW846 8260B
Naphthalene	95	(48 - 141)	SW846 8260B
n-Propylbenzene	94	(67 - 128)	SW846 8260B
Styrene	96	(76 - 127)	SW846 8260B
1,1,1,2-Tetrachloroethane	89	(75 - 127)	SW846 8260B
1,1,2,2-Tetrachloroethane	97	(69 - 128)	SW846 8260B
Tetrachloroethene	98	(79 - 126)	SW846 8260B
Toluene	**94**	**(77 - 124)**	**SW846 8260B**
1,2,3-Trichlorobenzene	103	(63 - 127)	SW846 8260B
1,2,4-Trichloro-benzene	100	(64 - 126)	SW846 8260B
1,1,1-Trichloroethane	102	(71 - 125)	SW846 8260B
1,1,2-Trichloroethane	91	(74 - 120)	SW846 8260B
Trichloroethene	**98**	**(80 - 121)**	**SW846 8260B**
Trichlorofluoromethane	112	(67 - 143)	SW846 8260B
1,2,3-Trichloropropane	94	(67 - 124)	SW846 8260B
1,2,4-Trimethylbenzene	94	(69 - 121)	SW846 8260B
1,3,5-Trimethylbenzene	96	(71 - 125)	SW846 8260B
Vinyl chloride	110	(72 - 137)	SW846 8260B
m-Xylene & p-Xylene	101	(71 - 134)	SW846 8260B
o-Xylene	100	(76 - 126)	SW846 8260B
Xylenes (total)	101	(73 - 130)	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	106	(79 - 120)

(Continued on next page)

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: H6D030205 **Work Order #...:** H2P781AC **Matrix.....:** WATER
LCS Lot-Sample#: H6D060000-330

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	102	(71 - 127)
Toluene-d8	101	(80 - 120)
Bromofluorobenzene	90	(69 - 126)

NOTE(S):

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

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: H6D030205 **Work Order #...:** H2P781AC **Matrix.....:** WATER
LCS Lot-Sample#: H6D060000-330
Prep Date.....: 04/06/06 **Analysis Date..:** 04/06/06
Prep Batch #...: 6096330
Dilution Factor: 1

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
Acetone	40.0	28.9	ug/L	72	SW846 8260B
Benzene	**10.0**	**8.91**	**ug/L**	**89**	**SW846 8260B**
Bromobenzene	10.0	10.1	ug/L	101	SW846 8260B
Bromochloromethane	10.0	9.65	ug/L	96	SW846 8260B
Bromodichloromethane	10.0	9.53	ug/L	95	SW846 8260B
Bromoform	10.0	11.3	ug/L	113	SW846 8260B
Bromomethane	10.0	10.7	ug/L	107	SW846 8260B
2-Butanone	40.0	34.7	ug/L	87	SW846 8260B
n-Butylbenzene	10.0	9.51	ug/L	95	SW846 8260B
sec-Butylbenzene	10.0	9.43	ug/L	94	SW846 8260B
tert-Butylbenzene	10.0	9.58	ug/L	96	SW846 8260B
Carbon disulfide	10.0	9.73	ug/L	97	SW846 8260B
Carbon tetrachloride	10.0	8.74	ug/L	87	SW846 8260B
Chlorobenzene	**10.0**	**9.44**	**ug/L**	**94**	**SW846 8260B**
Chlorodibromomethane	10.0	9.11	ug/L	91	SW846 8260B
Chloroethane	10.0	11.0	ug/L	110	SW846 8260B
Chloroform	10.0	9.36	ug/L	94	SW846 8260B
Chloromethane	10.0	11.1	ug/L	111	SW846 8260B
2-Chlorotoluene	10.0	9.01	ug/L	90	SW846 8260B
4-Chlorotoluene	10.0	9.50	ug/L	95	SW846 8260B
1,2-Dibromo-3-chloro-propane	10.0	7.67	ug/L	77	SW846 8260B
1,2-Dibromoethane	10.0	9.29	ug/L	93	SW846 8260B
Dibromomethane	10.0	9.41	ug/L	94	SW846 8260B
1,2-Dichlorobenzene	10.0	9.59	ug/L	96	SW846 8260B
1,3-Dichlorobenzene	10.0	9.45	ug/L	94	SW846 8260B
1,4-Dichlorobenzene	10.0	9.34	ug/L	93	SW846 8260B
Dichlorodifluoromethane	10.0	9.17	ug/L	92	SW846 8260B
1,1-Dichloroethane	10.0	9.48	ug/L	95	SW846 8260B
1,2-Dichloroethane	10.0	9.83	ug/L	98	SW846 8260B
cis-1,2-Dichloroethene	10.0	9.17	ug/L	92	SW846 8260B
trans-1,2-Dichloroethene	10.0	8.93	ug/L	89	SW846 8260B
1,1-Dichloroethene	**10.0**	**10.5**	**ug/L**	**105**	**SW846 8260B**
1,2-Dichloropropane	10.0	9.74	ug/L	97	SW846 8260B

(Continued on next page)

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: H6D030205 **Work Order #...:** H2P781AC **Matrix.....:** WATER
LCS Lot-Sample#: H6D060000-330

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
1,3-Dichloropropane	10.0	9.02	ug/L	90	SW846 8260B
2,2-Dichloropropane	10.0	8.67	ug/L	87	SW846 8260B
cis-1,3-Dichloropropene	10.0	9.36	ug/L	94	SW846 8260B
trans-1,3-Dichloropropene	10.0	7.79	ug/L	78	SW846 8260B
1,1-Dichloropropene	10.0	9.60	ug/L	96	SW846 8260B
Ethylbenzene	10.0	9.73	ug/L	97	SW846 8260B
Hexachlorobutadiene	10.0	10.1	ug/L	101	SW846 8260B
2-Hexanone	40.0	42.2	ug/L	106	SW846 8260B
Isopropylbenzene	10.0	9.82	ug/L	98	SW846 8260B
p-Isopropyltoluene	10.0	9.50	ug/L	95	SW846 8260B
Methylene chloride	10.0	9.70	ug/L	97	SW846 8260B
4-Methyl-2-pentanone	40.0	41.1	ug/L	103	SW846 8260B
Naphthalene	10.0	9.54	ug/L	95	SW846 8260B
n-Propylbenzene	10.0	9.45	ug/L	94	SW846 8260B
Styrene	10.0	9.63	ug/L	96	SW846 8260B
1,1,1,2-Tetrachloroethane	10.0	8.87	ug/L	89	SW846 8260B
1,1,2,2-Tetrachloroethane	10.0	9.70	ug/L	97	SW846 8260B
Tetrachloroethene	10.0	9.78	ug/L	98	SW846 8260B
Toluene	**10.0**	**9.42**	**ug/L**	**94**	**SW846 8260B**
1,2,3-Trichlorobenzene	10.0	10.3	ug/L	103	SW846 8260B
1,2,4-Trichloro-benzene	10.0	9.96	ug/L	100	SW846 8260B
1,1,1-Trichloroethane	10.0	10.2	ug/L	102	SW846 8260B
1,1,2-Trichloroethane	10.0	9.06	ug/L	91	SW846 8260B
Trichloroethene	**10.0**	**9.77**	**ug/L**	**98**	**SW846 8260B**
Trichlorofluoromethane	10.0	11.2	ug/L	112	SW846 8260B
1,2,3-Trichloropropane	10.0	9.37	ug/L	94	SW846 8260B
1,2,4-Trimethylbenzene	10.0	9.42	ug/L	94	SW846 8260B
1,3,5-Trimethylbenzene	10.0	9.59	ug/L	96	SW846 8260B
Vinyl chloride	10.0	11.0	ug/L	110	SW846 8260B
m-Xylene & p-Xylene	20.0	20.3	ug/L	101	SW846 8260B
o-Xylene	10.0	9.96	ug/L	100	SW846 8260B
Xylenes (total)	30.0	30.2	ug/L	101	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	106	(79 - 120)

(Continued on next page)

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: H6D030205 **Work Order #...:** H2P781AC **Matrix.....:** WATER
LCS Lot-Sample#: H6D060000-330

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
1,2-Dichloroethane-d4	102	(71 - 127)
Toluene-d8	101	(80 - 120)
Bromofluorobenzene	90	(69 - 126)

NOTE(S):

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

Bold print denotes control parameters

Data File: /chem/gcms/mz.i/Z040606.b/h2p781ac.d
Report Date: 06-Apr-2006 14:44

STL Knoxville

Volatile Organics by GC/MS

Data file : /chem/gcms/mz.i/Z040606.b/h2p781ac.d
Lab Smp Id: H2P781AC Client Smp ID: INTRA-LAB CHECK
Inj Date : 06-APR-2006 14:26
Operator : 063605 Inst ID: mz.i
Smp Info : H2P781AC,1,3,,LCS
Misc Info : Z040606,8260B_LM,1-all.sub
Comment : Volatile Organics by GC/MS
Method : /chem/gcms/mz.i/Z040606.b/8260B_LM.m
Meth Date : 06-Apr-2006 14:16 chemist Quant Type: ISTD
Cal Date : 24-MAR-2006 13:51 Cal File: icvzc248.d
Als bottle: 1 QC Sample: METHOD SPIKE
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 1-all.sub
Target Version: 3.50
Processing Host: qmidhp01

Concentration Formula: Amt * DF * Uf*Vt/(Vo*1000) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Unit Correction factor
Vt	25000.00000	Sample Volume Purged
Vo	25.00000	Sample Volume Used

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
* 1 Fluorobenzene	96	5.670	5.667	(1.000)	914010	10.0000	
* 2 Chlorobenzene-d5	119	8.930	8.934	(1.000)	170627	10.0000	
* 3 1,4 Dichlorobenzene-d4	152	11.485	11.489	(1.000)	214665	10.0000	
$ 5 1,2-Dichloroethane-d4	65	5.232	5.229	(0.923)	128741	10.1653	10.165
$ 4 Dibromofluoromethane	113	4.824	4.827	(0.851)	155942	10.6476	10.648
$ 6 Toluene-d8	98	7.458	7.461	(0.835)	757287	10.1011	10.101
$ 7 4-Bromofluorobenzene	95	10.123	10.120	(0.881)	195526	9.03161	9.0316
10 Dichlorodifluoromethane	85	1.010	1.013	(0.178)	204495	9.16576	9.1658
11 Chloromethane (spcc)	50	1.125	1.123	(0.198)	595060	11.0573	11.057
12 Vinyl Chloride (ccc)	62	1.198	1.195	(0.211)	395642	10.9903	10.990
15 Bromomethane	94	1.411	1.408	(0.249)	96401	10.7210	10.721
16 Chloroethane	64	1.484	1.481	(0.262)	187163	10.9797	10.980
18 Trichlorofluoromethane	101	1.667	1.670	(0.294)	312846	11.1984	11.198
20 1,1-Dichloroethene (ccc)	96	2.062	2.065	(0.364)	208792	10.5105	10.510

Data File: /chem/gcms/mz.i/Z040606.b/h2p781ac.d
Report Date: 06-Apr-2006 14:44

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)
	22 Acetone	43	2.117	2.126	(0.373)	69623	28.8990	28.899
	24 Carbon Disulfide	76	2.226	2.236	(0.393)	682290	9.73012	9.7301
	27 Methylene Chloride	84	2.506	2.510	(0.442)	148343	9.70434	9.7043
	30 trans-1,2-Dichloroethene	96	2.792	2.795	(0.492)	223998	8.93244	8.9324
	33 1,1-Dichloroethane (spcc)	63	3.273	3.276	(0.577)	549264	9.47588	9.4759
	35 2,2-Dichloropropane	77	4.094	4.091	(0.722)	255329	8.66981	8.6698
	36 cis 1,2-Dichloroethene	96	4.112	4.116	(0.725)	212162	9.16577	9.1658
M	8 1,2-Dichloroethene (total)	96				436161	18.0982	18.098
	37 2-Butanone	43	4.173	4.170	(0.736)	120109	34.6809	34.681
	38 Bromochloromethane	128	4.453	4.450	(0.785)	61397	9.64633	9.6463
	40 Chloroform (ccc)	83	4.611	4.614	(0.813)	309178	9.36205	9.3620
	41 1,1,1-Trichloroethane	97	4.812	4.815	(0.849)	298385	10.2082	10.208
	42 Carbon Tetrachloride	117	5.037	5.034	(0.888)	204932	8.73604	8.7360
	43 1,1-Dichloropropene	75	5.049	5.046	(0.891)	300566	9.59619	9.5962
	44 Benzene	78	5.292	5.296	(0.933)	803104	8.90995	8.9100
	45 1,2-Dichloroethane	62	5.329	5.326	(0.940)	187539	9.82556	9.8256
	46 Trichloroethene	130	6.108	6.111	(1.077)	247796	9.77311	9.7731
	47 1,2-Dichloropropane (ccc)	63	6.345	6.342	(1.119)	239952	9.74344	9.7434
	49 Dibromomethane	93	6.473	6.476	(1.142)	48241	9.40667	9.4067
	50 Bromodichloromethane	83	6.685	6.689	(1.179)	150432	9.53105	9.5310
	52 cis-1,3-Dichloropropene	75	7.184	7.182	(1.267)	187108	9.35690	9.3569
	53 4-Methyl-2-pentanone	43	7.379	7.376	(1.302)	327923	41.0837	41.084
	54 Toluene (ccc)	91	7.525	7.528	(0.843)	914422	9.41687	9.4169
	55 trans-1,3-Dichloropropene	75	7.787	7.784	(0.872)	111181	7.78885	7.7888
	57 1,1,2-Trichloroethane	97	7.963	7.960	(0.892)	71439	9.06428	9.0643
	58 Tetrachloroethene	164	8.097	8.094	(0.907)	196918	9.77691	9.7769
	59 1,3-Dichloropropane	76	8.121	8.125	(0.909)	124631	9.02167	9.0217
	60 2-Hexanone	43	8.255	8.252	(0.924)	222914	42.2176	42.218
	61 Chlorodibromomethane	129	8.346	8.350	(0.935)	74923	9.10963	9.1096
	62 1,2-Dibromoethane	107	8.438	8.441	(0.945)	65556	9.28846	9.2884
	63 Chlorobenzene (spcc)	112	8.961	8.958	(1.003)	511719	9.44164	9.4416
	65 Ethylbenzene (ccc)	106	9.095	9.098	(1.018)	339831	9.73110	9.7311
	64 1,1,1,2-Tetrachloroethane	131	9.058	9.055	(1.014)	120612	8.87332	8.8733
	66 m&p-Xylene	106	9.222	9.220	(1.033)	856045	20.2768	20.277
	67 o-Xylene	106	9.612	9.609	(1.076)	371570	9.96465	9.9646
M	9 Xylene (total)	106				1227615	30.2414	30.241
	68 Styrene	104	9.624	9.627	(1.078)	504289	9.63228	9.6323
	69 Bromoform (spcc)	173	9.782	9.779	(1.095)	29984	11.2778	11.278
	70 Isopropylbenzene	105	9.989	9.992	(1.119)	1052441	9.81550	9.8155
	72 Bromobenzene	156	10.256	10.254	(1.149)	161073	10.1082	10.108
	73 1,1,2,2-Tetrachloroethane(sp)	83	10.293	10.290	(1.153)	56998	9.69505	9.6950
	74 1,2,3-Trichloropropane	110	10.317	10.315	(0.898)	17320	9.37153	9.3715
	76 n-Propylbenzene	91	10.409	10.412	(0.906)	1227340	9.44587	9.4459
	77 2-Chlorotoluene	91	10.475	10.473	(0.912)	621017	9.01219	9.0122
	78 1,3,5-Trimethylbenzene	105	10.615	10.613	(0.924)	838741	9.59359	9.5936
	79 4-Chlorotoluene	91	10.597	10.601	(0.923)	695275	9.49782	9.4978
	80 tert-Butylbenzene	119	10.993	10.996	(0.957)	750153	9.58322	9.5832

Data File: /chem/gcms/mz.i/Z040606.b/h2p781ac.d
Report Date: 06-Apr-2006 14:44

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)
81	1,2,4-Trimethylbenzene	105	11.053	11.057	(0.962)	773589	9.41783	9.4178
82	sec-Butylbenzene	105	11.285	11.282	(0.983)	1088255	9.43139	9.4314
83	1,3-Dichlorobenzene	146	11.388	11.391	(0.992)	354946	9.44589	9.4459
84	p-Isopropyltoluene	119	11.504	11.507	(1.002)	961768	9.49936	9.4994
85	1,4-Dichlorobenzene	146	11.522	11.519	(1.003)	326502	9.34120	9.3412
86	1,2-Dichlorobenzene	146	12.075	12.079	(1.051)	265742	9.58574	9.5857
87	n-Butylbenzene	91	12.148	12.146	(1.058)	860866	9.50653	9.5065
88	1,2-Dibromo-3-chloropropane	157	13.256	13.253	(1.154)	7433	7.66924	7.6692
89	1,2,4-Trichlorobenzene	180	14.296	14.293	(1.245)	167399	9.96292	9.9629
90	Hexachlorobutadiene	225	14.527	14.530	(1.265)	158936	10.0865	10.086
91	Napthalene	128	14.551	14.549	(1.267)	168094	9.53986	9.5399
92	1,2,3-Trichlorobenzene	180	14.819	14.816	(1.290)	113603	10.2638	10.264

Data File: /chem/gcms/mz.i/Z040606.b/h2p781ac.d
Report Date: 06-Apr-2006 14:44

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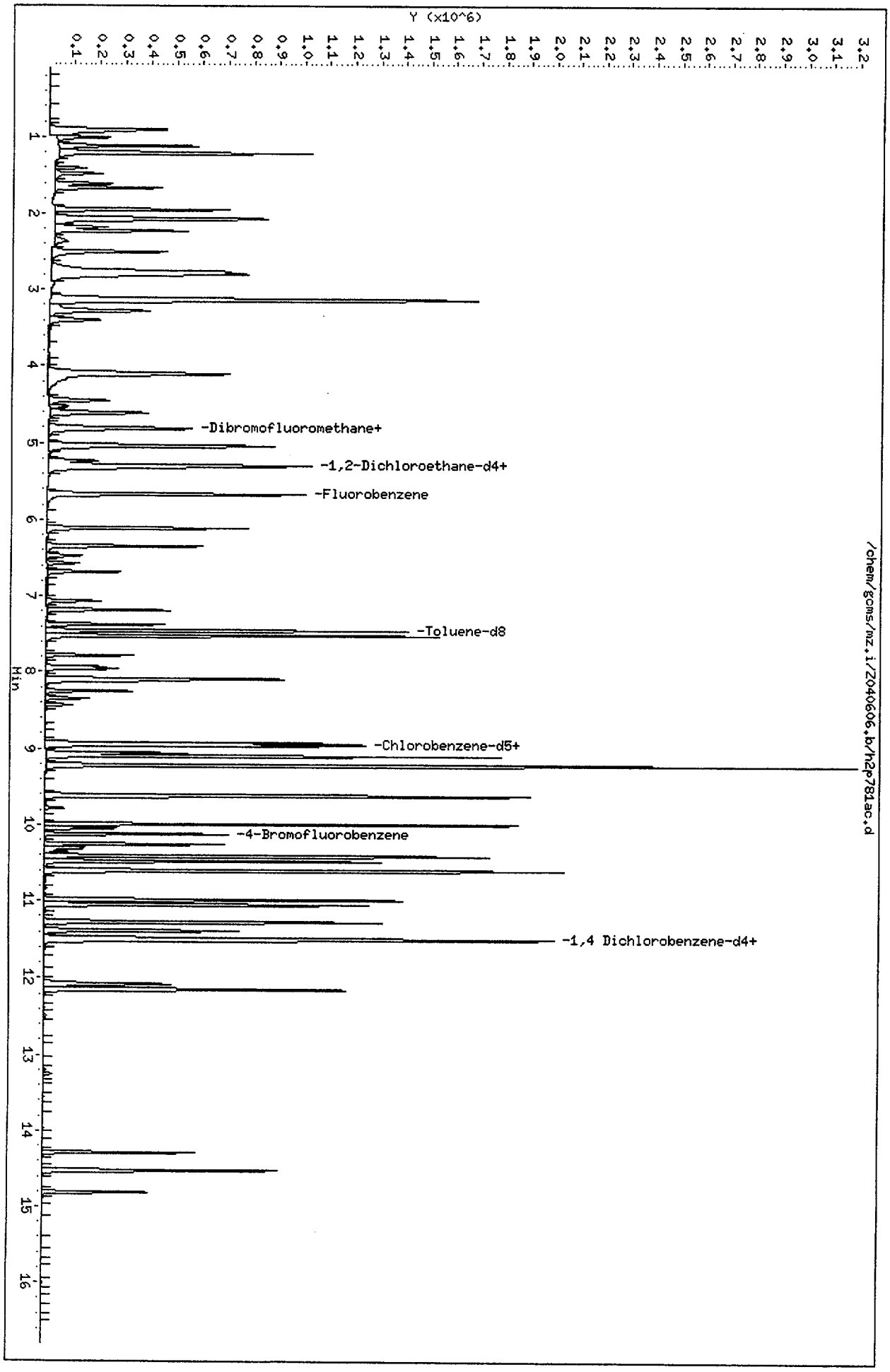
INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: mz.i
Lab File ID: h2p781ac.d
Lab Smp Id: H2P781AC
Analysis Type: VOA
Quant Type: ISTD
Operator: 063605
Calibration Date: 06-APR-2006
Calibration Time: 13:58
Client Smp ID: INTRA-LAB CHECK
Level: LOW
Sample Type: WATER
Method File: /chem/gcms/mz.i/Z040606.b/8260B_LM.m
Misc Info: Z040606,8260B_LM,1-all.sub

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	938680	469340	1877360	914010	-2.63
2 Chlorobenzene-d5	169233	84616	338466	170627	0.82
3 1,4 Dichlorobenze	201373	100686	402746	214665	6.60

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	5.67	5.17	6.17	5.67	0.05
2 Chlorobenzene-d5	8.93	8.43	9.43	8.93	-0.04
3 1,4 Dichlorobenze	11.49	10.99	11.99	11.49	-0.03

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


Data File: /chem/gcms/mz.i/Z040606.b/h2p781ac.d
Date : 06-APR-2006 14:26
Client ID: INTRA-LAB CHECK
Sample Info: H2P7810C,1,3,,LCS
Purge Volume: 25.0
Column phase: J+W 624
Instrument: mz.i
Operator: 063005
Column diameter: 0.18
Y (x10^6)
Min
/chem/gcms/mz.i/Z040606.b/h2p781ac.d
-Dibromofluoromethane+
-1,2-Dichloroethane-d4+
-Fluorobenzene
-Toluene-d8
-Chlorobenzene-d5+
-4-Bromofluorobenzene
-1,4 Dichlorobenzene-d4+

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: H6D030205 **Work Order #...:** H2HPW1AC-MS **Matrix.....:** WATER
MS Lot-Sample #: H6D030205-003 H2HPW1AD-MSD
Date Sampled...: 03/28/06 **Date Received..:** 04/02/06
Prep Date.....: 04/06/06 **Analysis Date..:** 04/06/06
Prep Batch #...: 6096330
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Acetone	95	(43 - 141)			SW846 8260B
	72	(43 - 141)	24	(0-50)	SW846 8260B
Acrylonitrile	99	(50 - 130)			SW846 8260B
	99	(50 - 130)	0.28	(0-30)	SW846 8260B
Benzene	**83**	**(73 - 125)**			**SW846 8260B**
	87	**(73 - 125)**	**4.3**	**(0-20)**	**SW846 8260B**
Bromobenzene	88	(77 - 122)			SW846 8260B
	94	(77 - 122)	6.1	(0-20)	SW846 8260B
Bromochloromethane	91	(73 - 124)			SW846 8260B
	96	(73 - 124)	5.1	(0-21)	SW846 8260B
Bromodichloromethane	92	(57 - 129)			SW846 8260B
	97	(57 - 129)	5.4	(0-22)	SW846 8260B
Bromoform	103	(49 - 141)			SW846 8260B
	107	(49 - 141)	3.4	(0-27)	SW846 8260B
Bromomethane	102	(30 - 168)			SW846 8260B
	104	(30 - 168)	2.7	(0-29)	SW846 8260B
2-Butanone	94	(50 - 143)			SW846 8260B
	97	(50 - 143)	3.1	(0-37)	SW846 8260B
n-Butylbenzene	84	(48 - 135)			SW846 8260B
	87	(48 - 135)	3.4	(0-21)	SW846 8260B
sec-Butylbenzene	84	(52 - 135)			SW846 8260B
	88	(52 - 135)	5.0	(0-20)	SW846 8260B
tert-Butylbenzene	86	(54 - 130)			SW846 8260B
	90	(54 - 130)	5.4	(0-20)	SW846 8260B
Carbon disulfide	81	(60 - 132)			SW846 8260B
	83	(60 - 132)	3.4	(0-20)	SW846 8260B
Carbon tetrachloride	79	(53 - 133)			SW846 8260B
	83	(53 - 133)	5.6	(0-29)	SW846 8260B
Chlorobenzene	**89**	**(71 - 125)**			**SW846 8260B**
	92	**(71 - 125)**	**3.6**	**(0-20)**	**SW846 8260B**
Chlorodibromomethane	86	(61 - 132)			SW846 8260B
	85	(61 - 132)	1.2	(0-27)	SW846 8260B
Chloroethane	98	(61 - 151)			SW846 8260B
	100	(61 - 151)	2.0	(0-20)	SW846 8260B
Chloroform	89	(66 - 122)			SW846 8260B
	93	(66 - 122)	3.7	(0-20)	SW846 8260B
Chloromethane	96	(46 - 140)			SW846 8260B
	99	(46 - 140)	2.7	(0-20)	SW846 8260B
2-Chlorotoluene	83	(55 - 131)			SW846 8260B
	90	(55 - 131)	8.3	(0-20)	SW846 8260B

(Continued on next page)

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: H6D030205 **Work Order #...:** H2HPW1AC-MS **Matrix.....:** WATER
MS Lot-Sample #: H6D030205-003 H2HPW1AD-MSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
4-Chlorotoluene	85	(55 - 133)			SW846 8260B
	93	(55 - 133)	8.6	(0-20)	SW846 8260B
1,2-Dibromo-3-chloro-propane	69	(41 - 143)			SW846 8260B
	83	(41 - 143)	18	(0-38)	SW846 8260B
1,2-Dibromoethane	89	(65 - 123)			SW846 8260B
	95	(65 - 123)	6.1	(0-20)	SW846 8260B
Dibromomethane	89	(64 - 126)			SW846 8260B
	98	(64 - 126)	9.7	(0-21)	SW846 8260B
1,2-Dichlorobenzene	89	(66 - 123)			SW846 8260B
	95	(66 - 123)	7.2	(0-20)	SW846 8260B
1,3-Dichlorobenzene	89	(67 - 123)			SW846 8260B
	96	(67 - 123)	7.2	(0-20)	SW846 8260B
1,4-Dichlorobenzene	89	(65 - 126)			SW846 8260B
	94	(65 - 126)	5.1	(0-20)	SW846 8260B
Dichlorodifluoromethane	90	(32 - 151)			SW846 8260B
	84	(32 - 151)	7.4	(0-25)	SW846 8260B
1,1-Dichloroethane	90	(68 - 127)			SW846 8260B
	95	(68 - 127)	5.9	(0-20)	SW846 8260B
1,2-Dichloroethane	98	(62 - 126)			SW846 8260B
	98	(62 - 126)	0.03	(0-20)	SW846 8260B
cis-1,2-Dichloroethene	89	(56 - 134)			SW846 8260B
	92	(56 - 134)	2.9	(0-20)	SW846 8260B
trans-1,2-Dichloroethene	84	(70 - 124)			SW846 8260B
	88	(70 - 124)	4.8	(0-20)	SW846 8260B
1,1-Dichloroethene	**95**	**(62 - 128)**			**SW846 8260B**
	100	**(62 - 128)**	**5.0**	**(0-26)**	**SW846 8260B**
1,2-Dichloropropane	91	(72 - 122)			SW846 8260B
	98	(72 - 122)	7.3	(0-20)	SW846 8260B
1,3-Dichloropropane	82	(68 - 122)			SW846 8260B
	90	(68 - 122)	9.8	(0-20)	SW846 8260B
2,2-Dichloropropane	72	(34 - 149)			SW846 8260B
	74	(34 - 149)	2.0	(0-32)	SW846 8260B
cis-1,3-Dichloropropene	88	(50 - 130)			SW846 8260B
	92	(50 - 130)	4.2	(0-24)	SW846 8260B
trans-1,3-Dichloropropene	75	(42 - 132)			SW846 8260B
	82	(42 - 132)	8.3	(0-27)	SW846 8260B
1,1-Dichloropropene	87	(71 - 122)			SW846 8260B
	89	(71 - 122)	3.3	(0-20)	SW846 8260B
Ethylbenzene	89	(70 - 130)			SW846 8260B
	92	(70 - 130)	3.0	(0-20)	SW846 8260B

(Continued on next page)

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: H6D030205 **Work Order #...:** H2HPW1AC-MS **Matrix.....:** WATER
MS Lot-Sample #: H6D030205-003 H2HPW1AD-MSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Hexachlorobutadiene	94	(58 - 123)			SW846 8260B
	98	(58 - 123)	4.9	(0-25)	SW846 8260B
2-Hexanone	99	(57 - 132)			SW846 8260B
	105	(57 - 132)	5.6	(0-50)	SW846 8260B
Isopropylbenzene	87	(69 - 130)			SW846 8260B
	90	(69 - 130)	3.6	(0-20)	SW846 8260B
p-Isopropyltoluene	85	(53 - 132)			SW846 8260B
	91	(53 - 132)	7.2	(0-20)	SW846 8260B
Methylene chloride	80	(53 - 131)			SW846 8260B
	84	(53 - 131)	5.0	(0-20)	SW846 8260B
4-Methyl-2-pentanone	99	(61 - 133)			SW846 8260B
	102	(61 - 133)	3.0	(0-23)	SW846 8260B
Naphthalene	92	(44 - 141)			SW846 8260B
	99	(44 - 141)	7.4	(0-38)	SW846 8260B
n-Propylbenzene	84	(53 - 136)			SW846 8260B
	89	(53 - 136)	5.7	(0-20)	SW846 8260B
Styrene	88	(69 - 129)			SW846 8260B
	93	(69 - 129)	5.0	(0-20)	SW846 8260B
1,1,1,2-Tetrachloroethane	83	(63 - 127)			SW846 8260B
	88	(63 - 127)	6.4	(0-25)	SW846 8260B
1,1,2,2-Tetrachloroethane	92	(65 - 128)			SW846 8260B
	92	(65 - 128)	0.87	(0-20)	SW846 8260B
Tetrachloroethene	86	(66 - 136)			SW846 8260B
	88	(66 - 136)	2.3	(0-20)	SW846 8260B
Toluene	**85**	**(69 - 129)**			**SW846 8260B**
	88	**(69 - 129)**	**3.1**	**(0-20)**	**SW846 8260B**
1,2,3-Trichlorobenzene	104	(56 - 131)			SW846 8260B
	109	(56 - 131)	5.2	(0-36)	SW846 8260B
1,2,4-Trichloro-benzene	96	(59 - 129)			SW846 8260B
	102	(59 - 129)	5.4	(0-28)	SW846 8260B
1,1,1-Trichloroethane	91	(55 - 129)			SW846 8260B
	91	(55 - 129)	0.06	(0-24)	SW846 8260B
1,1,2-Trichloroethane	89	(65 - 124)			SW846 8260B
	93	(65 - 124)	4.4	(0-20)	SW846 8260B
Trichloroethene	**92**	**(56 - 137)**			**SW846 8260B**
	94	**(56 - 137)**	**1.9**	**(0-20)**	**SW846 8260B**
Trichlorofluoromethane	102	(61 - 144)			SW846 8260B
	103	(61 - 144)	1.8	(0-20)	SW846 8260B
1,2,3-Trichloropropane	84	(54 - 128)			SW846 8260B
	94	(54 - 128)	11	(0-32)	SW846 8260B

(Continued on next page)

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: H6D030205 **Work Order #...:** H2HPW1AC-MS **Matrix.....:** WATER
MS Lot-Sample #: H6D030205-003 H2HPW1AD-MSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
1,2,4-Trimethylbenzene	86	(55 - 130)			SW846 8260B
	92	(55 - 130)	6.7	(0-20)	SW846 8260B
1,3,5-Trimethylbenzene	87	(56 - 133)			SW846 8260B
	94	(56 - 133)	7.9	(0-20)	SW846 8260B
Vinyl chloride	101	(65 - 139)			SW846 8260B
	104	(65 - 139)	2.0	(0-21)	SW846 8260B
m-Xylene & p-Xylene	90	(65 - 137)			SW846 8260B
	95	(65 - 137)	6.0	(0-20)	SW846 8260B
o-Xylene	90	(69 - 129)			SW846 8260B
	93	(69 - 129)	3.4	(0-20)	SW846 8260B
Xylenes (total)	90	(67 - 134)			SW846 8260B
	94	(67 - 134)	5.2	(0-20)	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	110	(79 - 120)
	108	(79 - 120)
1,2-Dichloroethane-d4	111	(71 - 127)
	110	(71 - 127)
Toluene-d8	101	(80 - 120)
	99	(80 - 120)
Bromofluorobenzene	90	(69 - 126)
	90	(69 - 126)

NOTE(S):

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

Bold print denotes control parameters

MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: H6D030205 **Work Order #...:** H2HPW1AC-MS **Matrix.....:** WATER
MS Lot-Sample #: H6D030205-003 H2HPW1AD-MSD
Date Sampled...: 03/28/06 **Date Received..:** 04/02/06
Prep Date.....: 04/06/06 **Analysis Date..:** 04/06/06
Prep Batch #...: 6096330
Dilution Factor: 1

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
Acetone	3.7	40.0	41.6	ug/L	95		SW846 8260B
	3.7	40.0	32.7	ug/L	72	24	SW846 8260B
Acrylonitrile	ND	200	198	ug/L	99		SW846 8260B
	ND	200	198	ug/L	99	0.28	SW846 8260B
Benzene	**ND**	**10.0**	**8.30**	**ug/L**	**83**		**SW846 8260B**
	ND	**10.0**	**8.67**	**ug/L**	**87**	**4.3**	**SW846 8260B**
Bromobenzene	ND	10.0	8.84	ug/L	88		SW846 8260B
	ND	10.0	9.40	ug/L	94	6.1	SW846 8260B
Bromochloromethane	ND	10.0	9.11	ug/L	91		SW846 8260B
	ND	10.0	9.58	ug/L	96	5.1	SW846 8260B
Bromodichloromethane	ND	10.0	9.23	ug/L	92		SW846 8260B
	ND	10.0	9.74	ug/L	97	5.4	SW846 8260B
Bromoform	2.0	10.0	12.3	ug/L	103		SW846 8260B
	2.0	10.0	12.7	ug/L	107	3.4	SW846 8260B
Bromomethane	ND	10.0	10.2	ug/L	102		SW846 8260B
	ND	10.0	10.4	ug/L	104	2.7	SW846 8260B
2-Butanone	ND	40.0	37.5	ug/L	94		SW846 8260B
	ND	40.0	38.7	ug/L	97	3.1	SW846 8260B
n-Butylbenzene	ND	10.0	8.38	ug/L	84		SW846 8260B
	ND	10.0	8.67	ug/L	87	3.4	SW846 8260B
sec-Butylbenzene	ND	10.0	8.39	ug/L	84		SW846 8260B
	ND	10.0	8.82	ug/L	88	5.0	SW846 8260B
tert-Butylbenzene	ND	10.0	8.57	ug/L	86		SW846 8260B
	ND	10.0	9.05	ug/L	90	5.4	SW846 8260B
Carbon disulfide	ND	10.0	8.06	ug/L	81		SW846 8260B
	ND	10.0	8.34	ug/L	83	3.4	SW846 8260B
Carbon tetrachloride	ND	10.0	7.87	ug/L	79		SW846 8260B
	ND	10.0	8.32	ug/L	83	5.6	SW846 8260B
Chlorobenzene	**ND**	**10.0**	**8.89**	**ug/L**	**89**		**SW846 8260B**
	ND	**10.0**	**9.22**	**ug/L**	**92**	**3.6**	**SW846 8260B**
Chlorodibromomethane	1.4	10.0	9.99	ug/L	86		SW846 8260B
	1.4	10.0	9.87	ug/L	85	1.2	SW846 8260B
Chloroethane	ND	10.0	9.83	ug/L	98		SW846 8260B
	ND	10.0	10.0	ug/L	100	2.0	SW846 8260B
Chloroform	0.14	10.0	9.06	ug/L	89		SW846 8260B
	0.14	10.0	9.40	ug/L	93	3.7	SW846 8260B
Chloromethane	ND	10.0	9.63	ug/L	96		SW846 8260B
	ND	10.0	9.90	ug/L	99	2.7	SW846 8260B
2-Chlorotoluene	ND	10.0	8.32	ug/L	83		SW846 8260B
	ND	10.0	9.04	ug/L	90	8.3	SW846 8260B

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MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: H6D030205 **Work Order #...:** H2HPW1AC-MS **Matrix.....:** WATER
MS Lot-Sample #: H6D030205-003 H2HPW1AD-MSD

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
4-Chlorotoluene	ND	10.0	8.54	ug/L	85		SW846 8260B
	ND	10.0	9.31	ug/L	93	8.6	SW846 8260B
1,2-Dibromo-3-chloro-propane	ND	10.0	6.90	ug/L	69		SW846 8260B
	ND	10.0	8.30	ug/L	83	18	SW846 8260B
1,2-Dibromoethane	ND	10.0	8.90	ug/L	89		SW846 8260B
	ND	10.0	9.46	ug/L	95	6.1	SW846 8260B
Dibromomethane	ND	10.0	8.86	ug/L	89		SW846 8260B
	ND	10.0	9.76	ug/L	98	9.7	SW846 8260B
1,2-Dichlorobenzene	ND	10.0	8.85	ug/L	89		SW846 8260B
	ND	10.0	9.51	ug/L	95	7.2	SW846 8260B
1,3-Dichlorobenzene	ND	10.0	8.89	ug/L	89		SW846 8260B
	ND	10.0	9.56	ug/L	96	7.2	SW846 8260B
1,4-Dichlorobenzene	ND	10.0	8.88	ug/L	89		SW846 8260B
	ND	10.0	9.35	ug/L	94	5.1	SW846 8260B
Dichlorodifluoromethane	ND	10.0	9.02	ug/L	90		SW846 8260B
	ND	10.0	8.37	ug/L	84	7.4	SW846 8260B
1,1-Dichloroethane	ND	10.0	8.96	ug/L	90		SW846 8260B
	ND	10.0	9.51	ug/L	95	5.9	SW846 8260B
1,2-Dichloroethane	ND	10.0	9.85	ug/L	98		SW846 8260B
	ND	10.0	9.84	ug/L	98	0.03	SW846 8260B
cis-1,2-Dichloroethene	ND	10.0	8.93	ug/L	89		SW846 8260B
	ND	10.0	9.19	ug/L	92	2.9	SW846 8260B
trans-1,2-Dichloroethene	ND	10.0	8.38	ug/L	84		SW846 8260B
	ND	10.0	8.80	ug/L	88	4.8	SW846 8260B
1,1-Dichloroethene	**ND**	**10.0**	**9.52**	**ug/L**	**95**		**SW846 8260B**
	ND	**10.0**	**10.0**	**ug/L**	**100**	**5.0**	**SW846 8260B**
1,2-Dichloropropane	ND	10.0	9.07	ug/L	91		SW846 8260B
	ND	10.0	9.76	ug/L	98	7.3	SW846 8260B
1,3-Dichloropropane	ND	10.0	8.15	ug/L	82		SW846 8260B
	ND	10.0	8.99	ug/L	90	9.8	SW846 8260B
2,2-Dichloropropane	ND	10.0	7.23	ug/L	72		SW846 8260B
	ND	10.0	7.37	ug/L	74	2.0	SW846 8260B
cis-1,3-Dichloropropene	ND	10.0	8.80	ug/L	88		SW846 8260B
	ND	10.0	9.18	ug/L	92	4.2	SW846 8260B
trans-1,3-Dichloropropene	ND	10.0	7.51	ug/L	75		SW846 8260B
	ND	10.0	8.16	ug/L	82	8.3	SW846 8260B
1,1-Dichloropropene	ND	10.0	8.65	ug/L	87		SW846 8260B
	ND	10.0	8.94	ug/L	89	3.3	SW846 8260B
Ethylbenzene	ND	10.0	8.92	ug/L	89		SW846 8260B
	ND	10.0	9.19	ug/L	92	3.0	SW846 8260B

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MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: H6D030205 **Work Order #...:** H2HPW1AC-MS **Matrix.....:** WATER
MS Lot-Sample #: H6D030205-003 H2HPW1AD-MSD

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
Hexachlorobutadiene	ND	10.0	9.36	ug/L	94		SW846 8260B
	ND	10.0	9.83	ug/L	98	4.9	SW846 8260B
2-Hexanone	ND	40.0	39.6	ug/L	99		SW846 8260B
	ND	40.0	41.9	ug/L	105	5.6	SW846 8260B
Isopropylbenzene	ND	10.0	8.67	ug/L	87		SW846 8260B
	ND	10.0	8.99	ug/L	90	3.6	SW846 8260B
p-Isopropyltoluene	ND	10.0	8.50	ug/L	85		SW846 8260B
	ND	10.0	9.14	ug/L	91	7.2	SW846 8260B
Methylene chloride	0.35	10.0	8.37	ug/L	80		SW846 8260B
	0.35	10.0	8.79	ug/L	84	5.0	SW846 8260B
4-Methyl-2-pentanone	ND	40.0	39.6	ug/L	99		SW846 8260B
	ND	40.0	40.8	ug/L	102	3.0	SW846 8260B
Naphthalene	ND	10.0	9.22	ug/L	92		SW846 8260B
	ND	10.0	9.93	ug/L	99	7.4	SW846 8260B
n-Propylbenzene	ND	10.0	8.44	ug/L	84		SW846 8260B
	ND	10.0	8.93	ug/L	89	5.7	SW846 8260B
Styrene	ND	10.0	8.80	ug/L	88		SW846 8260B
	ND	10.0	9.26	ug/L	93	5.0	SW846 8260B
1,1,1,2-Tetrachloroethane	ND	10.0	8.25	ug/L	83		SW846 8260B
	ND	10.0	8.79	ug/L	88	6.4	SW846 8260B
1,1,2,2-Tetrachloroethane	ND	10.0	9.24	ug/L	92		SW846 8260B
	ND	10.0	9.16	ug/L	92	0.87	SW846 8260B
Tetrachloroethene	0.13	10.0	8.74	ug/L	86		SW846 8260B
	0.13	10.0	8.95	ug/L	88	2.3	SW846 8260B
Toluene	**ND**	**10.0**	**8.53**	**ug/L**	**85**		**SW846 8260B**
	ND	**10.0**	**8.80**	**ug/L**	**88**	**3.1**	**SW846 8260B**
1,2,3-Trichlorobenzene	ND	10.0	10.4	ug/L	104		SW846 8260B
	ND	10.0	10.9	ug/L	109	5.2	SW846 8260B
1,2,4-Trichloro-benzene	ND	10.0	9.65	ug/L	96		SW846 8260B
	ND	10.0	10.2	ug/L	102	5.4	SW846 8260B
1,1,1-Trichloroethane	ND	10.0	9.12	ug/L	91		SW846 8260B
	ND	10.0	9.11	ug/L	91	0.06	SW846 8260B
1,1,2-Trichloroethane	ND	10.0	8.93	ug/L	89		SW846 8260B
	ND	10.0	9.34	ug/L	93	4.4	SW846 8260B
Trichloroethene	**ND**	**10.0**	**9.25**	**ug/L**	**92**		**SW846 8260B**
	ND	**10.0**	**9.43**	**ug/L**	**94**	**1.9**	**SW846 8260B**
Trichlorofluoromethane	ND	10.0	10.2	ug/L	102		SW846 8260B
	ND	10.0	10.3	ug/L	103	1.8	SW846 8260B
1,2,3-Trichloropropane	ND	10.0	8.42	ug/L	84		SW846 8260B
	ND	10.0	9.42	ug/L	94	11	SW846 8260B

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MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: H6D030205 **Work Order #...:** H2HPW1AC-MS **Matrix.....:** WATER
MS Lot-Sample #: H6D030205-003 H2HPW1AD-MSD

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
1,2,4-Trimethylbenzene	ND	10.0	8.64	ug/L	86		SW846 8260B
	ND	10.0	9.24	ug/L	92	6.7	SW846 8260B
1,3,5-Trimethylbenzene	ND	10.0	8.67	ug/L	87		SW846 8260B
	ND	10.0	9.38	ug/L	94	7.9	SW846 8260B
Vinyl chloride	ND	10.0	10.1	ug/L	101		SW846 8260B
	ND	10.0	10.4	ug/L	104	2.0	SW846 8260B
m-Xylene & p-Xylene	ND	20.0	17.9	ug/L	90		SW846 8260B
	ND	20.0	19.0	ug/L	95	6.0	SW846 8260B
o-Xylene	ND	10.0	8.96	ug/L	90		SW846 8260B
	ND	10.0	9.28	ug/L	93	3.4	SW846 8260B
Xylenes (total)	ND	30.0	26.9	ug/L	90		SW846 8260B
	ND	30.0	28.3	ug/L	94	5.2	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	110	(79 - 120)
	108	(79 - 120)
1,2-Dichloroethane-d4	111	(71 - 127)
	110	(71 - 127)
Toluene-d8	101	(80 - 120)
	99	(80 - 120)
Bromofluorobenzene	90	(69 - 126)
	90	(69 - 126)

NOTE(S):

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

Bold print denotes control parameters

Data File: /var/chem/gcms/mz.i/Z040606.b/h2hpw1ac.d
Report Date: 07-Apr-2006 14:59

STL Knoxville

Volatile Organics by GC/MS

Data file : /var/chem/gcms/mz.i/Z040606.b/h2hpw1ac.d
Lab Smp Id: H2HPW1AC Client Smp ID: G-2897-R1-POTW DISC
Inj Date : 06-APR-2006 23:01
Operator : 063605 Inst ID: mz.i
Smp Info : H2HPW1AC,1,3,,MS
Misc Info : Z040606,8260B,focus.sub
Comment : Volatile Organics by GC/MS
Method : /var/chem/gcms/mz.i/Z040606.b/8260B_LM.m
Meth Date : 07-Apr-2006 14:56 tillerm Quant Type: ISTD
Cal Date : 24-MAR-2006 13:51 Cal File: icvzc248.d
Als bottle: 7 QC Sample: MS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: focus.sub
Target Version: 3.50
Processing Host: qmidhp01

Concentration Formula: Amt * DF * Uf*Vt/(Vo*1000) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Unit Correction factor
Vt	25000.00000	Sample Volume Purged
Vo	25.00000	Sample Volume Used

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
* 1 Fluorobenzene	96	5.674	5.667	(1.000)	900527	10.0000	
* 2 Chlorobenzene-d5	119	8.935	8.934	(1.000)	164793	10.0000	
* 3 1,4 Dichlorobenzene-d4	152	11.490	11.489	(1.000)	201954	10.0000	
$ 5 1,2-Dichloroethane-d4	65	5.236	5.229	(0.923)	138772	11.1213	11.121
$ 4 Dibromofluoromethane	113	4.829	4.827	(0.851)	159096	11.0256	11.026
$ 6 Toluene-d8	98	7.463	7.461	(0.835)	730843	10.0935	10.093
$ 7 4-Bromofluorobenzene	95	10.128	10.120	(0.881)	184078	9.03798	9.0380
10 Dichlorodifluoromethane	85	1.014	1.013	(0.179)	198199	9.01657	9.0166
11 Chloromethane (spcc)	50	1.124	1.123	(0.198)	514562	9.63408	9.6341
12 Vinyl Chloride (ccc)	62	1.197	1.195	(0.211)	359958	10.1487	10.149
15 Bromomethane	94	1.410	1.408	(0.248)	89530	10.1538	10.154
16 Chloroethane	64	1.483	1.481	(0.261)	165041	9.82694	9.8269
18 Trichlorofluoromethane	101	1.672	1.670	(0.295)	279561	10.1568	10.157
20 1,1-Dichloroethene (ccc)	96	2.067	2.065	(0.364)	186417	9.52471	9.5247

Data File: /var/chem/gcms/mz.i/Z040606.b/h2hpw1ac.d
Report Date: 07-Apr-2006 14:59

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)
	21 *Freon 113	151	2.085	2.084	(0.367)	150630	9.88584	9.8858
	22 Acetone	43	2.128	2.126	(0.375)	88633	41.6253	41.625
	23 *Iodomethane	142	2.183	2.181	(0.385)	245291	10.9811	10.981
	24 Carbon Disulfide	76	2.231	2.236	(0.393)	556597	8.05645	8.0564
	27 Methylene Chloride	84	2.511	2.510	(0.443)	126041	8.36881	8.3688
	29 *Acrylonitrile	53	2.767	2.759	(0.488)	666339	198.154	198.15
	30 trans-1,2-Dichloroethene	96	2.797	2.795	(0.493)	207079	8.38139	8.3814
	33 1,1-Dichloroethane (spcc)	63	3.284	3.276	(0.579)	511914	8.96374	8.9637
	34 *Vinyl Acetate	86	3.399	3.404	(0.599)	17622	14.6778	14.678
	35 2,2-Dichloropropane	77	4.099	4.091	(0.722)	209676	7.22622	7.2262
	36 cis 1,2-Dichloroethene	96	4.123	4.116	(0.727)	203548	8.92527	8.9253
M	8 1,2-Dichloroethene (total)	96				410627	17.3067	17.307
	37 2-Butanone	43	4.184	4.170	(0.737)	127868	37.4739	37.474
	38 Bromochloromethane	128	4.452	4.450	(0.784)	57104	9.10618	9.1062
	39 *THF	42	4.531	4.535	(0.798)	76847	35.9666	35.966
	40 Chloroform (ccc)	83	4.616	4.614	(0.813)	294705	9.05739	9.0574
	41 1,1,1-Trichloroethane	97	4.817	4.815	(0.849)	262534	9.11615	9.1161
	42 Carbon Tetrachloride	117	5.042	5.034	(0.888)	181033	7.86788	7.8679
	43 1,1-Dichloropropene	75	5.054	5.046	(0.891)	267003	8.65226	8.6522
	44 Benzene	78	5.297	5.296	(0.934)	737463	8.30420	8.3042
	45 1,2-Dichloroethane	62	5.334	5.326	(0.940)	185184	9.84743	9.8474
	46 Trichloroethene	130	6.112	6.111	(1.077)	230985	9.24650	9.2465
	47 1,2-Dichloropropane (ccc)	63	6.350	6.342	(1.119)	220182	9.07453	9.0745
	49 Dibromomethane	93	6.477	6.476	(1.141)	44767	8.86009	8.8601
	50 Bromodichloromethane	83	6.690	6.689	(1.179)	143075	9.22610	9.2261
	52 cis-1,3-Dichloropropene	75	7.189	7.182	(1.267)	173308	8.79655	8.7965
	53 4-Methyl-2-pentanone	43	7.384	7.376	(1.301)	311594	39.6224	39.622
	54 Toluene (ccc)	91	7.530	7.528	(0.843)	800321	8.53358	8.5336
	55 trans-1,3-Dichloropropene	75	7.791	7.784	(0.872)	103182	7.50882	7.5088
	57 1,1,2-Trichloroethane	97	7.962	7.960	(0.891)	67988	8.93181	8.9318
	58 Tetrachloroethene	164	8.096	8.094	(0.906)	170077	8.74316	8.7432
	59 1,3-Dichloropropane	76	8.126	8.125	(0.909)	108747	8.15054	8.1505
	60 2-Hexanone	43	8.260	8.252	(0.924)	202058	39.6222	39.622
	61 Chlorodibromomethane	129	8.351	8.350	(0.935)	80034	9.99368	9.9937
	62 1,2-Dibromoethane	107	8.442	8.441	(0.945)	60646	8.89694	8.8969
	63 Chlorobenzene (spcc)	112	8.960	8.958	(1.003)	465309	8.88923	8.8892
	65 Ethylbenzene (ccc)	106	9.099	9.098	(1.018)	300778	8.91767	8.9177
	64 1,1,1,2-Tetrachloroethane	131	9.057	9.055	(1.014)	108013	8.25123	8.2512
	66 m&p-Xylene	106	9.221	9.220	(1.032)	730709	17.9207	17.921
	67 o-Xylene	106	9.610	9.609	(1.076)	322711	8.96071	8.9607
M	9 Xylene (total)	106				1053421	26.8814	26.881
	68 Styrene	104	9.629	9.627	(1.078)	445080	8.80228	8.8023
	69 Bromoform (spcc)	173	9.781	9.779	(1.095)	31978	12.3077	12.308
	70 Isopropylbenzene	105	9.994	9.992	(1.118)	898052	8.67208	8.6721
	72 Bromobenzene	156	10.255	10.254	(1.148)	136077	8.84179	8.8418
	73 1,1,2,2-Tetrachloroethane(sp)	83	10.292	10.290	(1.152)	52459	9.23874	9.2387
	74 1,2,3-Trichloropropane	110	10.322	10.315	(0.898)	14647	8.42438	8.4244

Data File: /var/chem/gcms/mz.i/Z040606.b/h2hpw1ac.d
Report Date: 07-Apr-2006 14:59

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
76 n-Propylbenzene	91	10.413	10.412	(0.906)	1031864	8.44130	8.4413
77 2-Chlorotoluene	91	10.480	10.473	(0.912)	539503	8.32205	8.3220
78 1,3,5-Trimethylbenzene	105	10.620	10.613	(0.924)	712936	8.66788	8.6679
79 4-Chlorotoluene	91	10.602	10.601	(0.923)	588345	8.54296	8.5430
80 tert-Butylbenzene	119	10.997	10.996	(0.957)	631172	8.57075	8.5708
81 1,2,4-Trimethylbenzene	105	11.058	11.057	(0.962)	667830	8.64203	8.6420
82 sec-Butylbenzene	105	11.283	11.282	(0.982)	911189	8.39389	8.3939
83 1,3-Dichlorobenzene	146	11.393	11.391	(0.992)	314151	8.88648	8.8865
84 p-Isopropyltoluene	119	11.508	11.507	(1.002)	809624	8.49996	8.5000
85 1,4-Dichlorobenzene	146	11.521	11.519	(1.003)	292126	8.88375	8.8838
86 1,2-Dichlorobenzene	146	12.080	12.079	(1.051)	230832	8.85060	8.8506
87 n-Butylbenzene	91	12.153	12.146	(1.058)	714129	8.38249	8.3825
88 1,2-Dibromo-3-chloropropane	157	13.254	13.253	(1.154)	6214	6.90069	6.9007(R)
89 1,2,4-Trichlorobenzene	180	14.301	14.293	(1.245)	152487	9.64662	9.6466
90 Hexachlorobutadiene	225	14.532	14.530	(1.265)	138806	9.36346	9.3634
91 Napthalene	128	14.550	14.549	(1.266)	152868	9.22186	9.2218
92 1,2,3-Trichlorobenzene	180	14.818	14.816	(1.290)	108006	10.3723	10.372

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

Data File: /var/chem/gcms/mz.i/Z040606.b/h2hpw1ac.d
Report Date: 07-Apr-2006 14:59

STL Knoxville

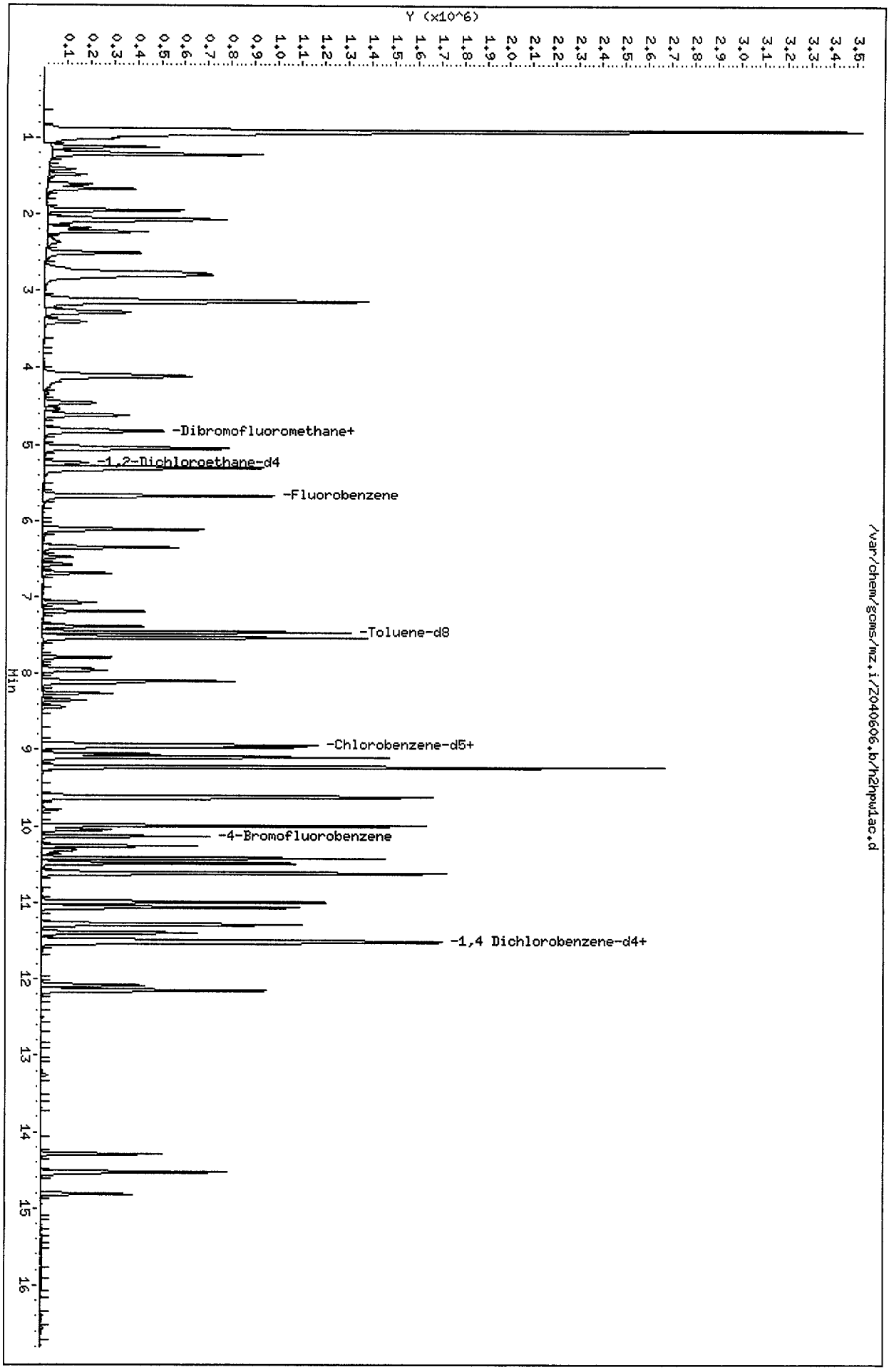
INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: mz.i
Lab File ID: h2hpw1ac.d
Lab Smp Id: H2HPW1AC
Analysis Type: VOA
Quant Type: ISTD
Operator: 063605
Calibration Date: 06-APR-2006
Calibration Time: 13:58
Client Smp ID: G-2897-R1-POTW DISC
Level: LOW
Sample Type: WATER
Method File: /var/chem/gcms/mz.i/Z040606.b/8260B_LM.m
Misc Info: Z040606,8260B,focus.sub

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	938680	469340	1877360	900527	-4.06
2 Chlorobenzene-d5	169233	84616	338466	164793	-2.62
3 1,4 Dichlorobenze	201373	100686	402746	201954	0.29

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	5.67	5.17	6.17	5.67	0.13
2 Chlorobenzene-d5	8.93	8.43	9.43	8.94	0.02
3 1,4 Dichlorobenze	11.49	10.99	11.99	11.49	0.01

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


Data File: /var/chem/gcms/mz.i/Z040606.b/h2hpw1ac.d
Date : 06-APR-2006 23:01
Client ID: G-2897-R1-POTW DISC
Sample Info: H2HPW1AC,1.3,,MS
Purge Volume: 25.0
Column phase: J+W 624
Instrument: mz.i
Operator: 063605
Column diameter: 0.18
Y (x10^6)
-Dibromofluoromethane+
-1,2-Dichloroethane-d4
-Fluorobenzene
-Toluene-d8
-Chlorobenzene-d5+
-4-Bromofluorobenzene
-1,4 Dichlorobenzene-d4+
Min
/var/chem/gcms/mz.i/Z040606.b/h2hpw1ac.d

Data File: /var/chem/gcms/mz.i/Z040606.b/h2hpw1ad.d
Report Date: 07-Apr-2006 14:59

STL Knoxville

Volatile Organics by GC/MS

Data file : /var/chem/gcms/mz.i/Z040606.b/h2hpw1ad.d
Lab Smp Id: H2HPW1AD Client Smp ID: G-2897-R1-POTW DISC
Inj Date : 06-APR-2006 23:24
Operator : 063605 Inst ID: mz.i
Smp Info : H2HPW1AD,1,3,,MSD
Misc Info : Z040606,8260B,focus.sub
Comment : Volatile Organics by GC/MS
Method : /var/chem/gcms/mz.i/Z040606.b/8260B_LM.m
Meth Date : 07-Apr-2006 14:56 tillerm Quant Type: ISTD
Cal Date : 24-MAR-2006 13:51 Cal File: icvzc248.d
Als bottle: 8 QC Sample: MSD
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: focus.sub
Target Version: 3.50
Processing Host: qmidhp01

Concentration Formula: Amt * DF * Uf*Vt/(Vo*1000) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Unit Correction factor
Vt	25000.00000	Sample Volume Purged
Vo	25.00000	Sample Volume Used

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)
*	1 Fluorobenzene	96	5.672	5.667	(1.000)	924179	10.0000	
*	2 Chlorobenzene-d5	119	8.933	8.934	(1.000)	168099	10.0000	
*	3 1,4 Dichlorobenzene-d4	152	11.488	11.489	(1.000)	201499	10.0000	
$	5 1,2-Dichloroethane-d4	65	5.240	5.229	(0.924)	140727	10.9894	10.989
$	4 Dibromofluoromethane	113	4.832	4.827	(0.852)	160489	10.8375	10.837
$	6 Toluene-d8	98	7.460	7.461	(0.835)	730103	9.88497	9.8850
$	7 4-Bromofluorobenzene	95	10.125	10.120	(0.881)	183804	9.04491	9.0449
	10 Dichlorodifluoromethane	85	1.012	1.013	(0.178)	188882	8.37279	8.3728
	11 Chloromethane (spcc)	50	1.127	1.123	(0.199)	541729	9.89807	9.8981
	12 Vinyl Chloride (ccc)	62	1.200	1.195	(0.212)	377099	10.3599	10.360
	15 Bromomethane	94	1.413	1.408	(0.249)	94632	10.4328	10.433
	16 Chloroethane	64	1.486	1.481	(0.262)	172731	10.0216	10.022
	18 Trichlorofluoromethane	101	1.669	1.670	(0.294)	292156	10.3427	10.343
	20 1,1-Dichloroethene (ccc)	96	2.070	2.065	(0.365)	201120	10.0129	10.013

Data File: /var/chem/gcms/mz.i/Z040606.b/h2hpw1ad.d
Report Date: 07-Apr-2006 14:59

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)
	21 *Freon 113	151	2.083	2.084	(0.367)	143866	9.20030	9.2003
	22 Acetone	43	2.125	2.126	(0.375)	76898	32.6661	32.666
	23 *Iodomethane	142	2.186	2.181	(0.385)	264586	11.5151	11.515
	24 Carbon Disulfide	76	2.235	2.236	(0.394)	591026	8.33586	8.3359
	27 Methylene Chloride	84	2.514	2.510	(0.443)	135926	8.79421	8.7942
	29 *Acrylonitrile	53	2.764	2.759	(0.487)	681901	197.591	197.59
	30 trans-1,2-Dichloroethene	96	2.794	2.795	(0.493)	223095	8.79855	8.7985
	33 1,1-Dichloroethane (spcc)	63	3.281	3.276	(0.578)	557371	9.50993	9.5099
	34 *Vinyl Acetate	86	3.403	3.404	(0.600)	17970	14.5842	14.584
	35 2,2-Dichloropropane	77	4.102	4.091	(0.723)	219581	7.37392	7.3739
	36 cis 1,2-Dichloroethene	96	4.120	4.116	(0.726)	215143	9.19226	9.1922
M	8 1,2-Dichloroethene (total)	96				438239	17.9908	17.991
	37 2-Butanone	43	4.181	4.170	(0.737)	135405	38.6672	38.667
	38 Bromochloromethane	128	4.455	4.450	(0.785)	61662	9.58136	9.5814
	39 *THF	42	4.534	4.535	(0.799)	83799	38.2164	38.216
	40 Chloroform (ccc)	83	4.619	4.614	(0.814)	313937	9.40155	9.4016
	41 1,1,1-Trichloroethane	97	4.820	4.815	(0.850)	269263	9.11051	9.1105
	42 Carbon Tetrachloride	117	5.039	5.034	(0.888)	197052	8.32433	8.3243
	43 1,1-Dichloropropene	75	5.051	5.046	(0.891)	283152	8.94073	8.9407
	44 Benzene	78	5.301	5.296	(0.935)	789929	8.66735	8.6674
	45 1,2-Dichloroethane	62	5.331	5.326	(0.940)	189985	9.84417	9.8442
	46 Trichloroethene	130	6.116	6.111	(1.078)	241708	9.42812	9.4281
	47 1,2-Dichloropropane (ccc)	63	6.353	6.342	(1.120)	243103	9.76280	9.7628
	49 Dibromomethane	93	6.475	6.476	(1.142)	50634	9.76477	9.7648
	50 Bromodichloromethane	83	6.694	6.689	(1.180)	155759	9.74233	9.7423
	52 cis-1,3-Dichloropropene	75	7.187	7.182	(1.267)	185583	9.17853	9.1785
	53 4-Methyl-2-pentanone	43	7.381	7.376	(1.301)	329525	40.8301	40.830
	54 Toluene (ccc)	91	7.527	7.528	(0.843)	842332	8.80491	8.8049
	55 trans-1,3-Dichloropropene	75	7.789	7.784	(0.872)	115226	8.16113	8.1611
	57 1,1,2-Trichloroethane	97	7.965	7.960	(0.892)	72494	9.33648	9.3365
	58 Tetrachloroethene	164	8.099	8.094	(0.907)	177557	8.94817	8.9482
	59 1,3-Dichloropropane	76	8.123	8.125	(0.909)	122399	8.99336	8.9934
	60 2-Hexanone	43	8.257	8.252	(0.924)	217878	41.8843	41.884
	61 Chlorodibromomethane	129	8.349	8.350	(0.935)	80577	9.87364	9.8736
	62 1,2-Dibromoethane	107	8.440	8.441	(0.945)	65760	9.45742	9.4574
	63 Chlorobenzene (spcc)	112	8.963	8.958	(1.003)	492298	9.21988	9.2199
	65 Ethylbenzene (ccc)	106	9.097	9.098	(1.018)	316205	9.19072	9.1907
	64 1,1,1,2-Tetrachloroethane	131	9.060	9.055	(1.014)	117720	8.79382	8.7938
	66 m&p-Xylene	106	9.225	9.220	(1.033)	791891	19.0392	19.039
	67 o-Xylene	106	9.614	9.609	(1.076)	340750	9.27554	9.2755
M	9 Xylene (total)	106				1132642	28.3148	28.315
	68 Styrene	104	9.626	9.627	(1.078)	477576	9.25922	9.2592
	69 Bromoform (spcc)	173	9.784	9.779	(1.095)	33920	12.7394	12.739
	70 Isopropylbenzene	105	9.991	9.992	(1.119)	949342	8.98709	8.9871
	72 Bromobenzene	156	10.259	10.254	(1.148)	147535	9.39779	9.3978
	73 1,1,2,2-Tetrachloroethane(sp)	83	10.295	10.290	(1.153)	53048	9.15871	9.1587
	74 1,2,3-Trichloropropane	110	10.313	10.315	(0.898)	16349	9.42426	9.4242

Data File: /var/chem/gcms/mz.i/Z040606.b/h2hpw1ad.d
Report Date: 07-Apr-2006 14:59

						CONCENTRATIONS	
	QUANT SIG					ON-COLUMN	FINAL
Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/L)	(ug/L)
76 n-Propylbenzene	91	10.411	10.412	(0.906)	1089537	8.93321	8.9332
77 2-Chlorotoluene	91	10.478	10.473	(0.912)	584743	9.04025	9.0402
78 1,3,5-Trimethylbenzene	105	10.618	10.613	(0.924)	769869	9.38120	9.3812
79 4-Chlorotoluene	91	10.599	10.601	(0.923)	639582	9.30790	9.3079
80 tert-Butylbenzene	119	10.995	10.996	(0.957)	664965	9.05000	9.0500
81 1,2,4-Trimethylbenzene	105	11.062	11.057	(0.963)	712690	9.24336	9.2434
82 sec-Butylbenzene	105	11.287	11.282	(0.983)	955832	8.82502	8.8250
83 1,3-Dichlorobenzene	146	11.390	11.391	(0.992)	337045	9.55558	9.5556
84 p-Isopropyltoluene	119	11.506	11.507	(1.002)	868353	9.13710	9.1371
85 1,4-Dichlorobenzene	146	11.524	11.519	(1.003)	306803	9.35114	9.3511
86 1,2-Dichlorobenzene	146	12.084	12.079	(1.052)	247545	9.51282	9.5128
87 n-Butylbenzene	91	12.151	12.146	(1.058)	737294	8.67393	8.6739
88 1,2-Dibromo-3-chloropropane	157	13.264	13.253	(1.155)	7617	8.30222	8.3022
89 1,2,4-Trichlorobenzene	180	14.298	14.293	(1.245)	160681	10.1879	10.188
90 Hexachlorobutadiene	225	14.529	14.530	(1.265)	145459	9.83438	9.8344
91 Napthalene	128	14.548	14.549	(1.266)	164182	9.92670	9.9267
92 1,2,3-Trichlorobenzene	180	14.821	14.816	(1.290)	113533	10.9277	10.928

Data File: /var/chem/gcms/mz.i/Z040606.b/h2hpw1ad.d
Report Date: 07-Apr-2006 14:59

STL Knoxville

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

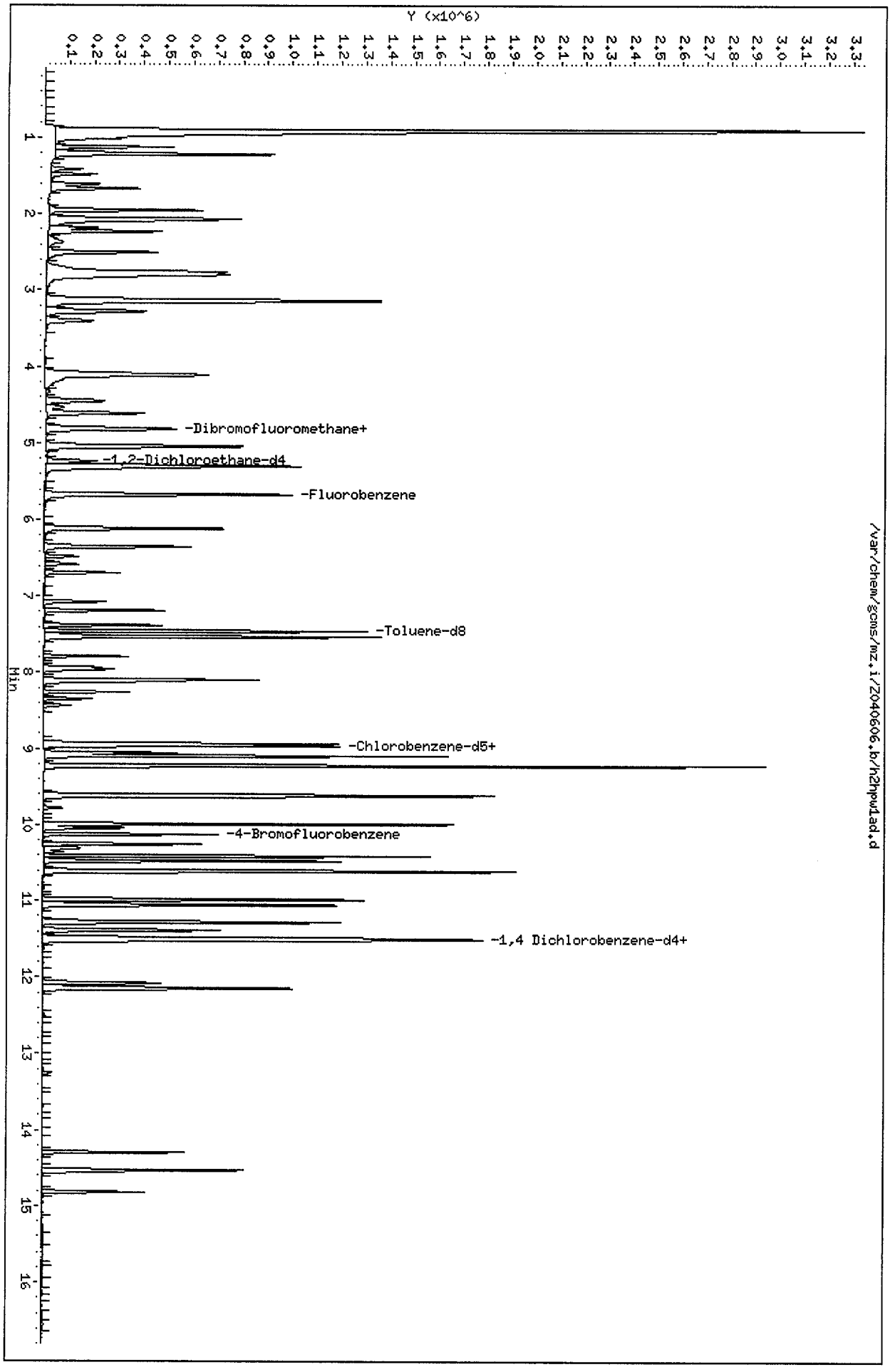
Instrument ID: mz.i
Lab File ID: h2hpw1ad.d
Lab Smp Id: H2HPW1AD
Analysis Type: VOA
Quant Type: ISTD
Operator: 063605
Method File: /var/chem/gcms/mz.i/Z040606.b/8260B_LM.m
Misc Info: Z040606,8260B,focus.sub

Calibration Date: 06-APR-2006
Calibration Time: 13:58
Client Smp ID: G-2897-R1-POTW DISC
Level: LOW
Sample Type: WATER

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	938680	469340	1877360	924179	-1.54
2 Chlorobenzene-d5	169233	84616	338466	168099	-0.67
3 1,4 Dichlorobenze	201373	100686	402746	201499	0.06

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	5.67	5.17	6.17	5.67	0.09
2 Chlorobenzene-d5	8.93	8.43	9.43	8.93	-0.01
3 1,4 Dichlorobenze	11.49	10.99	11.99	11.49	-0.01

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


Data File: /var/chem/gcms/mz.i/Z040606.b/h2hpw1ad.d
Date : 06-APR-2006 23:24
Client ID: G-2897-R1-POTW DISC
Sample Info: H2HPW1AD,1.3,,MSD
Purge Volume: 25.0
Column phase: J+W 624
Instrument: mz.i
Operator: 063605
Column diameter: 0.18
Y (x10^6)
-Dibromofluoromethane+
-1,2-Dichloroethane-d4
-Fluorobenzene
-Toluene-d8
-Chlorobenzene-d5+
-4-Bromofluorobenzene
-1,4 Dichlorobenzene-d4+
Min
/var/chem/gcms/mz.i/Z040606.b/h2hpw1ad.d

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: H6D030205 **Work Order #...:** H2HP31AC-MS **Matrix.....:** WATER
MS Lot-Sample #: H6D030205-004 H2HP31AD-MSD
Date Sampled...: 03/28/06 **Date Received..:** 04/02/06
Prep Date.....: 04/06/06 **Analysis Date..:** 04/06/06
Prep Batch #...: 6096330
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Acetone	199 a	(43 - 141)			SW846 8260B
	234 a	(43 - 141)	15	(0-50)	SW846 8260B
Acrylonitrile	167 a	(50 - 130)			SW846 8260B
	179 a	(50 - 130)	7.0	(0-30)	SW846 8260B
Benzene	**81**	**(73 - 125)**			**SW846 8260B**
	79	**(73 - 125)**	**2.4**	**(0-20)**	**SW846 8260B**
Bromobenzene	111	(77 - 122)			SW846 8260B
	116	(77 - 122)	4.4	(0-20)	SW846 8260B
Bromochloromethane	135 a	(73 - 124)			SW846 8260B
	145 a	(73 - 124)	6.7	(0-21)	SW846 8260B
Bromodichloromethane	119	(57 - 129)			SW846 8260B
	125	(57 - 129)	5.1	(0-22)	SW846 8260B
Bromoform	159 a	(49 - 141)			SW846 8260B
	175 a	(49 - 141)	8.1	(0-27)	SW846 8260B
Bromomethane	71	(30 - 168)			SW846 8260B
	67	(30 - 168)	5.4	(0-29)	SW846 8260B
2-Butanone	193 a	(50 - 143)			SW846 8260B
	219 a	(50 - 143)	12	(0-37)	SW846 8260B
n-Butylbenzene	28 a	(48 - 135)			SW846 8260B
	29 a	(48 - 135)	1.2	(0-21)	SW846 8260B
sec-Butylbenzene	0.0	(52 - 135)			SW846 8260B
	0.0	(52 - 135)	0.0	(0-20)	SW846 8260B
tert-Butylbenzene	2.9 a	(54 - 130)			SW846 8260B
	0.0	(54 - 130)	200	(0-20)	SW846 8260B
Carbon disulfide	73	(60 - 132)			SW846 8260B
	64	(60 - 132)	14	(0-20)	SW846 8260B
Carbon tetrachloride	70	(53 - 133)			SW846 8260B
	74	(53 - 133)	4.7	(0-29)	SW846 8260B
Chlorobenzene	**81**	**(71 - 125)**			**SW846 8260B**
	83	**(71 - 125)**	**1.5**	**(0-20)**	**SW846 8260B**
Chlorodibromomethane	113	(61 - 132)			SW846 8260B
	117	(61 - 132)	2.9	(0-27)	SW846 8260B
Chloroethane	87	(61 - 151)			SW846 8260B
	86	(61 - 151)	1.2	(0-20)	SW846 8260B
Chloroform	99	(66 - 122)			SW846 8260B
	99	(66 - 122)	0.15	(0-20)	SW846 8260B
Chloromethane	157 a	(46 - 140)			SW846 8260B
	162 a	(46 - 140)	3.0	(0-20)	SW846 8260B
2-Chlorotoluene	57	(55 - 131)			SW846 8260B
	56	(55 - 131)	1.6	(0-20)	SW846 8260B

(Continued on next page)

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: H6D030205 **Work Order #...:** H2HP31AC-MS **Matrix.....:** WATER
MS Lot-Sample #: H6D030205-004 H2HP31AD-MSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
4-Chlorotoluene	56	(55 - 133)			SW846 8260B
	54 a	(55 - 133)	3.6	(0-20)	SW846 8260B
1,2-Dibromo-3-chloro-propane	172 a	(41 - 143)			SW846 8260B
	192 a	(41 - 143)	11	(0-38)	SW846 8260B
1,2-Dibromoethane	144 a	(65 - 123)			SW846 8260B
	148 a	(65 - 123)	3.0	(0-20)	SW846 8260B
Dibromomethane	151 a	(64 - 126)			SW846 8260B
	156 a	(64 - 126)	2.8	(0-21)	SW846 8260B
1,2-Dichlorobenzene	99	(66 - 123)			SW846 8260B
	99	(66 - 123)	0.55	(0-20)	SW846 8260B
1,3-Dichlorobenzene	76	(67 - 123)			SW846 8260B
	72	(67 - 123)	4.7	(0-20)	SW846 8260B
1,4-Dichlorobenzene	82	(65 - 126)			SW846 8260B
	82	(65 - 126)	0.34	(0-20)	SW846 8260B
Dichlorodifluoromethane	78	(32 - 151)			SW846 8260B
	74	(32 - 151)	5.9	(0-25)	SW846 8260B
1,1-Dichloroethane	91	(68 - 127)			SW846 8260B
	87	(68 - 127)	3.6	(0-20)	SW846 8260B
1,2-Dichloroethane	161 a	(62 - 126)			SW846 8260B
	167 a	(62 - 126)	3.3	(0-20)	SW846 8260B
cis-1,2-Dichloroethene	97	(56 - 134)			SW846 8260B
	97	(56 - 134)	0.83	(0-20)	SW846 8260B
trans-1,2-Dichloroethene	70	(70 - 124)			SW846 8260B
	68 a	(70 - 124)	2.4	(0-20)	SW846 8260B
1,1-Dichloroethene	**11 a**	**(62 - 128)**			**SW846 8260B**
	5.6 a,p	**(62 - 128)**	**68**	**(0-26)**	**SW846 8260B**
1,2-Dichloropropane	121	(72 - 122)			SW846 8260B
	118	(72 - 122)	1.9	(0-20)	SW846 8260B
1,3-Dichloropropane	142 a	(68 - 122)			SW846 8260B
	149 a	(68 - 122)	4.7	(0-20)	SW846 8260B
2,2-Dichloropropane	60	(34 - 149)			SW846 8260B
	61	(34 - 149)	0.97	(0-32)	SW846 8260B
cis-1,3-Dichloropropene	1.0 a	(50 - 130)			SW846 8260B
	0.0	(50 - 130)	200	(0-24)	SW846 8260B
trans-1,3-Dichloropropene	7.4 a	(42 - 132)			SW846 8260B
	6.6 a	(42 - 132)	12	(0-27)	SW846 8260B
1,1-Dichloropropene	2.9 a	(71 - 122)			SW846 8260B
	3.7 a,p	(71 - 122)	26	(0-20)	SW846 8260B
Ethylbenzene	0.0	(70 - 130)			SW846 8260B
	0.0	(70 - 130)	0.0	(0-20)	SW846 8260B

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MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: H6D030205 **Work Order #...:** H2HP31AC-MS **Matrix.....:** WATER
MS Lot-Sample #: H6D030205-004 H2HP31AD-MSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Hexachlorobutadiene	55 a	(58 - 123)			SW846 8260B
	54 a	(58 - 123)	1.3	(0-25)	SW846 8260B
2-Hexanone	380 a	(57 - 132)			SW846 8260B
	419 a	(57 - 132)	9.9	(0-50)	SW846 8260B
Isopropylbenzene	0.0	(69 - 130)			SW846 8260B
	0.0	(69 - 130)	0.0	(0-20)	SW846 8260B
p-Isopropyltoluene	0.0	(53 - 132)			SW846 8260B
	0.0	(53 - 132)	0.0	(0-20)	SW846 8260B
Methylene chloride	104	(53 - 131)			SW846 8260B
	104	(53 - 131)	0.39	(0-20)	SW846 8260B
4-Methyl-2-pentanone	450 a	(61 - 133)			SW846 8260B
	491 a	(61 - 133)	8.8	(0-23)	SW846 8260B
Naphthalene	5.9 a	(44 - 141)			SW846 8260B
	0.0	(44 - 141)	200	(0-38)	SW846 8260B
n-Propylbenzene	30 a	(53 - 136)			SW846 8260B
	30 a	(53 - 136)	1.6	(0-20)	SW846 8260B
Styrene	0.0	(69 - 129)			SW846 8260B
	0.0	(69 - 129)	0.0	(0-20)	SW846 8260B
1,1,1,2-Tetrachloroethane	93	(63 - 127)			SW846 8260B
	96	(63 - 127)	2.3	(0-25)	SW846 8260B
1,1,2,2-Tetrachloroethane	197 a	(65 - 128)			SW846 8260B
	207 a	(65 - 128)	5.0	(0-20)	SW846 8260B
Tetrachloroethene	61 a	(66 - 136)			SW846 8260B
	59 a	(66 - 136)	2.3	(0-20)	SW846 8260B
Toluene	**0.0**	**(69 - 129)**			**SW846 8260B**
	0.0	**(69 - 129)**	**0.0**	**(0-20)**	**SW846 8260B**
1,2,3-Trichlorobenzene	129	(56 - 131)			SW846 8260B
	140 a	(56 - 131)	8.5	(0-36)	SW846 8260B
1,2,4-Trichloro-benzene	104	(59 - 129)			SW846 8260B
	106	(59 - 129)	1.6	(0-28)	SW846 8260B
1,1,1-Trichloroethane	80	(55 - 129)			SW846 8260B
	80	(55 - 129)	0.72	(0-24)	SW846 8260B
1,1,2-Trichloroethane	144 a	(65 - 124)			SW846 8260B
	151 a	(65 - 124)	4.9	(0-20)	SW846 8260B
Trichloroethene	**81**	**(56 - 137)**			**SW846 8260B**
	78	**(56 - 137)**	**4.1**	**(0-20)**	**SW846 8260B**
Trichlorofluoromethane	91	(61 - 144)			SW846 8260B
	85	(61 - 144)	7.7	(0-20)	SW846 8260B
1,2,3-Trichloropropane	152 a	(54 - 128)			SW846 8260B
	157 a	(54 - 128)	3.1	(0-32)	SW846 8260B

(Continued on next page)

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: H6D030205 **Work Order #...:** H2HP31AC-MS **Matrix.....:** WATER
MS Lot-Sample #: H6D030205-004 H2HP31AD-MSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
1,2,4-Trimethylbenzene	0.0	(55 - 130)			SW846 8260B
	0.0	(55 - 130)	0.0	(0-20)	SW846 8260B
1,3,5-Trimethylbenzene	0.0	(56 - 133)			SW846 8260B
	0.0	(56 - 133)	0.0	(0-20)	SW846 8260B
Vinyl chloride	1.4 a	(65 - 139)			SW846 8260B
	0.0	(65 - 139)	200	(0-21)	SW846 8260B
m-Xylene & p-Xylene	0.0	(65 - 137)			SW846 8260B
	0.0	(65 - 137)	0.0	(0-20)	SW846 8260B
o-Xylene	0.0	(69 - 129)			SW846 8260B
	0.0	(69 - 129)	0.0	(0-20)	SW846 8260B
Xylenes (total)	0.0	(67 - 134)			SW846 8260B
	0.0	(67 - 134)	0.0	(0-20)	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	139 *	(79 - 120)
	136 *	(79 - 120)
1,2-Dichloroethane-d4	184 *	(71 - 127)
	190 *	(71 - 127)
Toluene-d8	81	(80 - 120)
	80	(80 - 120)
Bromofluorobenzene	89	(69 - 126)
	90	(69 - 126)

NOTE(S):

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

Bold print denotes control parameters

* Surrogate recovery is outside stated control limits.

a Spiked analyte recovery is outside stated control limits.

p Relative percent difference (RPD) is outside stated control limits.

MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: H6D030205 **Work Order #...:** H2HP31AC-MS **Matrix.....:** WATER
MS Lot-Sample #: H6D030205-004 H2HP31AD-MSD
Date Sampled...: 03/28/06 **Date Received..:** 04/02/06
Prep Date.....: 04/06/06 **Analysis Date..:** 04/06/06
Prep Batch #...: 6096330
Dilution Factor: 1

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
Acetone	4.5	40.0	84.2	ug/L	199 a		SW846 8260B
	4.5	40.0	98.0	ug/L	234 a	15	SW846 8260B
Acrylonitrile	ND	200	334	ug/L	167 a		SW846 8260B
	ND	200	358	ug/L	179 a	7.0	SW846 8260B
Benzene	**ND**	**10.0**	**8.07**	**ug/L**	**81**		**SW846 8260B**
	ND	**10.0**	**7.87**	**ug/L**	**79**	**2.4**	**SW846 8260B**
Bromobenzene	0.18	10.0	11.3	ug/L	111		SW846 8260B
	0.18	10.0	11.8	ug/L	116	4.4	SW846 8260B
Bromochloromethane	ND	10.0	13.5	ug/L	135 a		SW846 8260B
	ND	10.0	14.5	ug/L	145 a	6.7	SW846 8260B
Bromodichloromethane	0.86	10.0	12.7	ug/L	119		SW846 8260B
	0.86	10.0	13.4	ug/L	125	5.1	SW846 8260B
Bromoform	2.8	10.0	18.7	ug/L	159 a		SW846 8260B
	2.8	10.0	20.3	ug/L	175 a	8.1	SW846 8260B
Bromomethane	ND	10.0	7.07	ug/L	71		SW846 8260B
	ND	10.0	6.70	ug/L	67	5.4	SW846 8260B
2-Butanone	ND	40.0	77.2	ug/L	193 a		SW846 8260B
	ND	40.0	87.4	ug/L	219 a	12	SW846 8260B
n-Butylbenzene	ND	10.0	2.82	ug/L	28 a		SW846 8260B
	ND	10.0	2.86	ug/L	29 a	1.2	SW846 8260B
sec-Butylbenzene	ND	10.0		ug/L	0.0		SW846 8260B
	ND	10.0		ug/L	0.0	0.0	SW846 8260B
tert-Butylbenzene	ND	10.0	0.287	ug/L	2.9 a		SW846 8260B
	ND	10.0		ug/L	0.0	200	SW846 8260B
Carbon disulfide	ND	10.0	7.35	ug/L	73		SW846 8260B
	ND	10.0	6.36	ug/L	64	14	SW846 8260B
Carbon tetrachloride	ND	10.0	7.01	ug/L	70		SW846 8260B
	ND	10.0	7.35	ug/L	74	4.7	SW846 8260B
Chlorobenzene	**ND**	**10.0**	**8.15**	**ug/L**	**81**		**SW846 8260B**
	ND	**10.0**	**8.27**	**ug/L**	**83**	**1.5**	**SW846 8260B**
Chlorodibromomethane	1.0	10.0	12.4	ug/L	113		SW846 8260B
	1.0	10.0	12.7	ug/L	117	2.9	SW846 8260B
Chloroethane	ND	10.0	8.75	ug/L	87		SW846 8260B
	ND	10.0	8.65	ug/L	86	1.2	SW846 8260B
Chloroform	0.17	10.0	10.1	ug/L	99		SW846 8260B
	0.17	10.0	10.1	ug/L	99	0.15	SW846 8260B
Chloromethane	ND	10.0	15.7	ug/L	157 a		SW846 8260B
	ND	10.0	16.2	ug/L	162 a	3.0	SW846 8260B
2-Chlorotoluene	ND	10.0	5.68	ug/L	57		SW846 8260B
	ND	10.0	5.59	ug/L	56	1.6	SW846 8260B

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MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: H6D030205 **Work Order #...:** H2HP31AC-MS **Matrix.....:** WATER
MS Lot-Sample #: H6D030205-004 H2HP31AD-MSD

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
4-Chlorotoluene	ND	10.0	5.61	ug/L	56		SW846 8260B
	ND	10.0	5.41	ug/L	54 a	3.6	SW846 8260B
1,2-Dibromo-3-chloro-propane	ND	10.0	17.2	ug/L	172 a		SW846 8260B
	ND	10.0	19.2	ug/L	192 a	11	SW846 8260B
1,2-Dibromoethane	ND	10.0	14.4	ug/L	144 a		SW846 8260B
	ND	10.0	14.8	ug/L	148 a	3.0	SW846 8260B
Dibromomethane	ND	10.0	15.1	ug/L	151 a		SW846 8260B
	ND	10.0	15.6	ug/L	156 a	2.8	SW846 8260B
1,2-Dichlorobenzene	ND	10.0	9.85	ug/L	99		SW846 8260B
	ND	10.0	9.91	ug/L	99	0.55	SW846 8260B
1,3-Dichlorobenzene	ND	10.0	7.57	ug/L	76		SW846 8260B
	ND	10.0	7.22	ug/L	72	4.7	SW846 8260B
1,4-Dichlorobenzene	ND	10.0	8.24	ug/L	82		SW846 8260B
	ND	10.0	8.21	ug/L	82	0.34	SW846 8260B
Dichlorodifluoromethane	ND	10.0	7.81	ug/L	78		SW846 8260B
	ND	10.0	7.37	ug/L	74	5.9	SW846 8260B
1,1-Dichloroethane	ND	10.0	9.06	ug/L	91		SW846 8260B
	ND	10.0	8.74	ug/L	87	3.6	SW846 8260B
1,2-Dichloroethane	0.13	10.0	16.3	ug/L	161 a		SW846 8260B
	0.13	10.0	16.8	ug/L	167 a	3.3	SW846 8260B
cis-1,2-Dichloroethene	ND	10.0	9.65	ug/L	97		SW846 8260B
	ND	10.0	9.73	ug/L	97	0.83	SW846 8260B
trans-1,2-Dichloroethene	ND	10.0	7.01	ug/L	70		SW846 8260B
	ND	10.0	6.84	ug/L	68 a	2.4	SW846 8260B
1,1-Dichloroethene	**ND**	**10.0**	**1.14**	**ug/L**	**11 a**		**SW846 8260B**
	ND	**10.0**	**0.562**	**ug/L**	**5.6**	**68**	**SW846 8260B**
	Qualifiers: a,p						
1,2-Dichloropropane	ND	10.0	12.1	ug/L	121		SW846 8260B
	ND	10.0	11.8	ug/L	118	1.9	SW846 8260B
1,3-Dichloropropane	ND	10.0	14.2	ug/L	142 a		SW846 8260B
	ND	10.0	14.9	ug/L	149 a	4.7	SW846 8260B
2,2-Dichloropropane	ND	10.0	6.00	ug/L	60		SW846 8260B
	ND	10.0	6.05	ug/L	61	0.97	SW846 8260B
cis-1,3-Dichloropropene	ND	10.0	0.101	ug/L	1.0 a		SW846 8260B
	ND	10.0		ug/L	0.0	200	SW846 8260B
trans-1,3-Dichloropropene	ND	10.0	0.738	ug/L	7.4 a		SW846 8260B
	ND	10.0	0.657	ug/L	6.6 a	12	SW846 8260B
1,1-Dichloropropene	ND	10.0	0.287	ug/L	2.9 a		SW846 8260B
	ND	10.0	0.373	ug/L	3.7	26	SW846 8260B
	Qualifiers: a,p						

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MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: H6D030205 **Work Order #...:** H2HP31AC-MS **Matrix.....:** WATER
MS Lot-Sample #: H6D030205-004 H2HP31AD-MSD

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
Ethylbenzene	ND	10.0		ug/L	0.0		SW846 8260B
	ND	10.0		ug/L	0.0	0.0	SW846 8260B
Hexachlorobutadiene	ND	10.0	5.48	ug/L	55 a		SW846 8260B
	ND	10.0	5.41	ug/L	54 a	1.3	SW846 8260B
2-Hexanone	ND	40.0	152	ug/L	380 a		SW846 8260B
	ND	40.0	168	ug/L	419 a	9.9	SW846 8260B
Isopropylbenzene	ND	10.0		ug/L	0.0		SW846 8260B
	ND	10.0		ug/L	0.0	0.0	SW846 8260B
p-Isopropyltoluene	ND	10.0		ug/L	0.0		SW846 8260B
	ND	10.0		ug/L	0.0	0.0	SW846 8260B
Methylene chloride	0.53	10.0	11.0	ug/L	104		SW846 8260B
	0.53	10.0	10.9	ug/L	104	0.39	SW846 8260B
4-Methyl-2-pentanone	ND	40.0	180	ug/L	450 a		SW846 8260B
	ND	40.0	196	ug/L	491 a	8.8	SW846 8260B
Naphthalene	ND	10.0	0.593	ug/L	5.9 a		SW846 8260B
	ND	10.0		ug/L	0.0	200	SW846 8260B
n-Propylbenzene	ND	10.0	3.01	ug/L	30 a		SW846 8260B
	ND	10.0	2.96	ug/L	30 a	1.6	SW846 8260B
Styrene	ND	10.0		ug/L	0.0		SW846 8260B
	ND	10.0		ug/L	0.0	0.0	SW846 8260B
1,1,1,2-Tetrachloroethane	ND	10.0	9.33	ug/L	93		SW846 8260B
	ND	10.0	9.55	ug/L	96	2.3	SW846 8260B
1,1,2,2-Tetrachloroethane	ND	10.0	19.7	ug/L	197 a		SW846 8260B
	ND	10.0	20.7	ug/L	207 a	5.0	SW846 8260B
Tetrachloroethene	ND	10.0	6.06	ug/L	61 a		SW846 8260B
	ND	10.0	5.92	ug/L	59 a	2.3	SW846 8260B
Toluene	**ND**	**10.0**		**ug/L**	**0.0**		**SW846 8260B**
	ND	**10.0**		**ug/L**	**0.0**	**0.0**	**SW846 8260B**
1,2,3-Trichlorobenzene	ND	10.0	12.9	ug/L	129		SW846 8260B
	ND	10.0	14.0	ug/L	140 a	8.5	SW846 8260B
1,2,4-Trichloro-benzene	ND	10.0	10.4	ug/L	104		SW846 8260B
	ND	10.0	10.6	ug/L	106	1.6	SW846 8260B
1,1,1-Trichloroethane	ND	10.0	8.04	ug/L	80		SW846 8260B
	ND	10.0	7.98	ug/L	80	0.72	SW846 8260B
1,1,2-Trichloroethane	ND	10.0	14.4	ug/L	144 a		SW846 8260B
	ND	10.0	15.1	ug/L	151 a	4.9	SW846 8260B
Trichloroethene	**0.24**	**10.0**	**8.35**	**ug/L**	**81**		**SW846 8260B**
	0.24	**10.0**	**8.02**	**ug/L**	**78**	**4.1**	**SW846 8260B**
Trichlorofluoromethane	ND	10.0	9.15	ug/L	91		SW846 8260B
	ND	10.0	8.47	ug/L	85	7.7	SW846 8260B

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MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: H6D030205 **Work Order #...:** H2HP31AC-MS **Matrix.....:** WATER
MS Lot-Sample #: H6D030205-004 H2HP31AD-MSD

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
1,2,3-Trichloropropane	ND	10.0	15.2	ug/L	152 a		SW846 8260B
	ND	10.0	15.7	ug/L	157 a	3.1	SW846 8260B
1,2,4-Trimethylbenzene	ND	10.0		ug/L	0.0		SW846 8260B
	ND	10.0		ug/L	0.0	0.0	SW846 8260B
1,3,5-Trimethylbenzene	ND	10.0		ug/L	0.0		SW846 8260B
	ND	10.0		ug/L	0.0	0.0	SW846 8260B
Vinyl chloride	ND	10.0		ug/L	1.4 a		SW846 8260B
	ND	10.0		ug/L	0.0	200	SW846 8260B
m-Xylene & p-Xylene	ND	20.0		ug/L	0.0		SW846 8260B
	ND	20.0		ug/L	0.0	0.0	SW846 8260B
o-Xylene	ND	10.0		ug/L	0.0		SW846 8260B
	ND	10.0		ug/L	0.0	0.0	SW846 8260B
Xylenes (total)	ND	30.0		ug/L	0.0		SW846 8260B
	ND	30.0		ug/L	0.0	0.0	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	139 *	(79 - 120)
	136 *	(79 - 120)
1,2-Dichloroethane-d4	184 *	(71 - 127)
	190 *	(71 - 127)
Toluene-d8	81	(80 - 120)
	80	(80 - 120)
Bromofluorobenzene	89	(69 - 126)
	90	(69 - 126)

NOTE(S):

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

Bold print denotes control parameters

* Surrogate recovery is outside stated control limits.

a Spiked analyte recovery is outside stated control limits.

p Relative percent difference (RPD) is outside stated control limits.

Data File: /var/chem/gcms/mz.i/Z040606.b/h2hp31ac.d
Report Date: 07-Apr-2006 14:58

STL Knoxville

Volatile Organics by GC/MS

Data file : /var/chem/gcms/mz.i/Z040606.b/h2hp31ac.d
Lab Smp Id: H2HP31AC Client Smp ID: G-2901-R1-CAUSTIC F
Inj Date : 06-APR-2006 23:48
Operator : 063605 Inst ID: mz.i
Smp Info : H2HP31AC,1,3,,MS
Misc Info : Z040606,8260B,focus.sub
Comment   : Volatile Organics by GC/MS
Method   : /var/chem/gcms/mz.i/Z040606.b/8260B_LM.m
Meth Date : 07-Apr-2006 14:56 tillerm Quant Type: ISTD
Cal Date : 24-MAR-2006 13:51 Cal File: icvzc248.d
Als bottle: 9 QC Sample: MS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: focus.sub
Target Version: 3.50
Processing Host: qmidhp01

Concentration Formula: Amt * DF * Uf*Vt/(Vo*1000) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Unit Correction factor
Vt	25000.00000	Sample Volume Purged
Vo	25.00000	Sample Volume Used

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
* 1 Fluorobenzene	96	5.672	5.667	(1.000)	932559	10.0000	
* 2 Chlorobenzene-d5	119	8.933	8.934	(1.000)	203507	10.0000	
* 3 1,4 Dichlorobenzene-d4	152	11.488	11.489	(1.000)	293962	10.0000	
$ 5 1,2-Dichloroethane-d4	65	5.240	5.229	(0.924)	237690	18.3944	18.394(R)
$ 4 Dibromofluoromethane	113	4.833	4.827	(0.852)	207303	13.8730	13.873(R)
$ 6 Toluene-d8	98	7.461	7.461	(0.835)	720764	8.06064	8.0606
$ 7 4-Bromofluorobenzene	95	10.125	10.120	(0.881)	262629	8.85877	8.8588
10 Dichlorodifluoromethane	85	1.012	1.013	(0.178)	177885	7.81446	7.8144
11 Chloromethane (spcc)	50	1.128	1.123	(0.199)	851642	15.7423	15.742(R)
12 Vinyl Chloride (ccc)	62	1.487	1.195	(0.262)	5193	0.14141	0.14141(R)
15 Bromomethane	94	1.414	1.408	(0.249)	62061	7.07260	7.0726
16 Chloroethane	64	1.487	1.481	(0.262)	152137	8.74745	8.7474
18 Trichlorofluoromethane	101	1.669	1.670	(0.294)	260706	9.14640	9.1464
20 1,1-Dichloroethene (ccc)	96	2.065	2.065	(0.364)	23057	1.13760	1.1376(R)

Data File: /var/chem/gcms/mz.i/Z040606.b/h2hp31ac.d
Report Date: 07-Apr-2006 14:58

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
21	*Freon 113	151	2.089	2.084	(0.368)	135222	8.56979	8.5698
22	Acetone	43	2.132	2.126	(0.376)	144037	84.1592	84.159(R)
23	*Iodomethane	142	2.186	2.181	(0.385)	53059	2.70688	2.7069
24	Carbon Disulfide	76	2.235	2.236	(0.394)	525614	7.34667	7.3467
27	Methylene Chloride	84	2.509	2.510	(0.442)	171120	10.9717	10.972
29	*Acrylonitrile	53	2.764	2.759	(0.487)	1163419	334.090	334.09(R)
30	trans-1,2-Dichloroethene	96	2.801	2.795	(0.494)	179281	7.00706	7.0071
33	1,1-Dichloroethane (spcc)	63	3.281	3.276	(0.578)	535971	9.06262	9.0626
34	*Vinyl Acetate	86	3.354	3.404	(0.591)	189	0.15236	0.15236
35	2,2-Dichloropropane	77	4.103	4.091	(0.723)	180156	5.99560	5.9956(R)
36	cis 1,2-Dichloroethene	96	4.121	4.116	(0.726)	228000	9.65404	9.6540
M 8	1,2-Dichloroethene (total)	96				407281	16.6611	16.661
37	2-Butanone	43	4.182	4.170	(0.737)	272690	77.1713	77.171(R)
38	Bromochloromethane	128	4.462	4.450	(0.787)	87832	13.5252	13.525(R)
39	*THF	42	4.535	4.535	(0.799)	214556	96.9685	96.968
40	Chloroform (ccc)	83	4.620	4.614	(0.814)	339995	10.0904	10.090
41	1,1,1-Trichloroethane	97	4.820	4.815	(0.850)	239798	8.04066	8.0406
42	Carbon Tetrachloride	117	5.039	5.034	(0.888)	166135	7.01104	7.0110
43	1,1-Dichloropropene	75	5.052	5.046	(0.891)	9173	0.28705	0.28705(R)
44	Benzene	78	5.301	5.296	(0.935)	741821	8.06636	8.0664
45	1,2-Dichloroethane	62	5.338	5.326	(0.941)	317024	16.2792	16.279(R)
46	Trichloroethene	130	6.116	6.111	(1.078)	216021	8.35046	8.3504
47	1,2-Dichloropropane (ccc)	63	6.347	6.342	(1.119)	303453	12.0769	12.077
49	Dibromomethane	93	6.475	6.476	(1.142)	79257	15.1472	15.147(R)
50	Bromodichloromethane	83	6.688	6.689	(1.179)	209403	12.7359	12.736
52	cis-1,3-Dichloropropene	75	7.181	7.182	(1.266)	2060	0.10097	0.10097(R)
53	4-Methyl-2-pentanone	43	7.382	7.376	(1.301)	1464220	179.795	179.80(R)
55	trans-1,3-Dichloropropene	75	7.789	7.784	(0.872)	2080	0.73769	0.73769(R)
57	1,1,2-Trichloroethane	97	7.966	7.960	(0.892)	135495	14.4141	14.414(R)
58	Tetrachloroethene	164	8.099	8.094	(0.907)	145499	6.05679	6.0568(R)
59	1,3-Dichloropropane	76	8.124	8.125	(0.909)	234119	14.2090	14.209(R)
60	2-Hexanone	43	8.258	8.252	(0.924)	957385	152.023	152.02(R)
61	Chlorodibromomethane	129	8.355	8.350	(0.935)	124440	12.3828	12.383
62	1,2-Dibromoethane	107	8.440	8.441	(0.945)	120943	14.3673	14.367(R)
63	Chlorobenzene (spcc)	112	8.963	8.958	(1.003)	526690	8.14775	8.1477
64	1,1,1,2-Tetrachloroethane	131	9.055	9.055	(1.014)	151577	9.33234	9.3323
69	Bromoform (spcc)	173	9.785	9.779	(1.095)	63748	18.7211	18.721(R)
72	Bromobenzene	156	10.259	10.254	(1.148)	214078	11.2639	11.264
73	1,1,2,2-Tetrachloroethane(sp)	83	10.296	10.290	(1.153)	138028	19.6842	19.684(R)
74	1,2,3-Trichloropropane	110	10.320	10.315	(0.898)	38410	15.1768	15.177(R)
76	n-Propylbenzene	91	10.478	10.412	(0.912)	536193	3.01349	3.0135(R)
77	2-Chlorotoluene	91	10.478	10.473	(0.912)	536193	5.68224	5.6822(R)
79	4-Chlorotoluene	91	10.600	10.601	(0.923)	561978	5.60606	5.6060(R)
80	tert-Butylbenzene	119	10.989	10.996	(0.957)	30799	0.28733	0.28732(R)
83	1,3-Dichlorobenzene	146	11.391	11.391	(0.992)	389475	7.56888	7.5689
85	1,4-Dichlorobenzene	146	11.524	11.519	(1.003)	394256	8.23695	8.2369
86	1,2-Dichlorobenzene	146	12.084	12.079	(1.052)	374027	9.85235	9.8523

Data File: /var/chem/gcms/mz.i/Z040606.b/h2hp31ac.d
Report Date: 07-Apr-2006 14:58

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
87 n-Butylbenzene	91	12.194	12.146	(1.061)	349928	2.82187	2.8219(R)
88 1,2-Dibromo-3-chloropropane	157	13.258	13.253	(1.154)	24242	17.2041	17.204(R)
89 1,2,4-Trichlorobenzene	180	14.299	14.293	(1.245)	239699	10.4177	10.418
90 Hexachlorobutadiene	225	14.530	14.530	(1.265)	118223	5.47889	5.4789(R)
91 Napthalene	128	14.554	14.549	(1.267)	14318	0.59343	0.59343(R)
92 1,2,3-Trichlorobenzene	180	14.822	14.816	(1.290)	195379	12.8904	12.890

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

Data File: /var/chem/gcms/mz.i/Z040606.b/h2hp31ac.d
Report Date: 07-Apr-2006 14:58

STL Knoxville

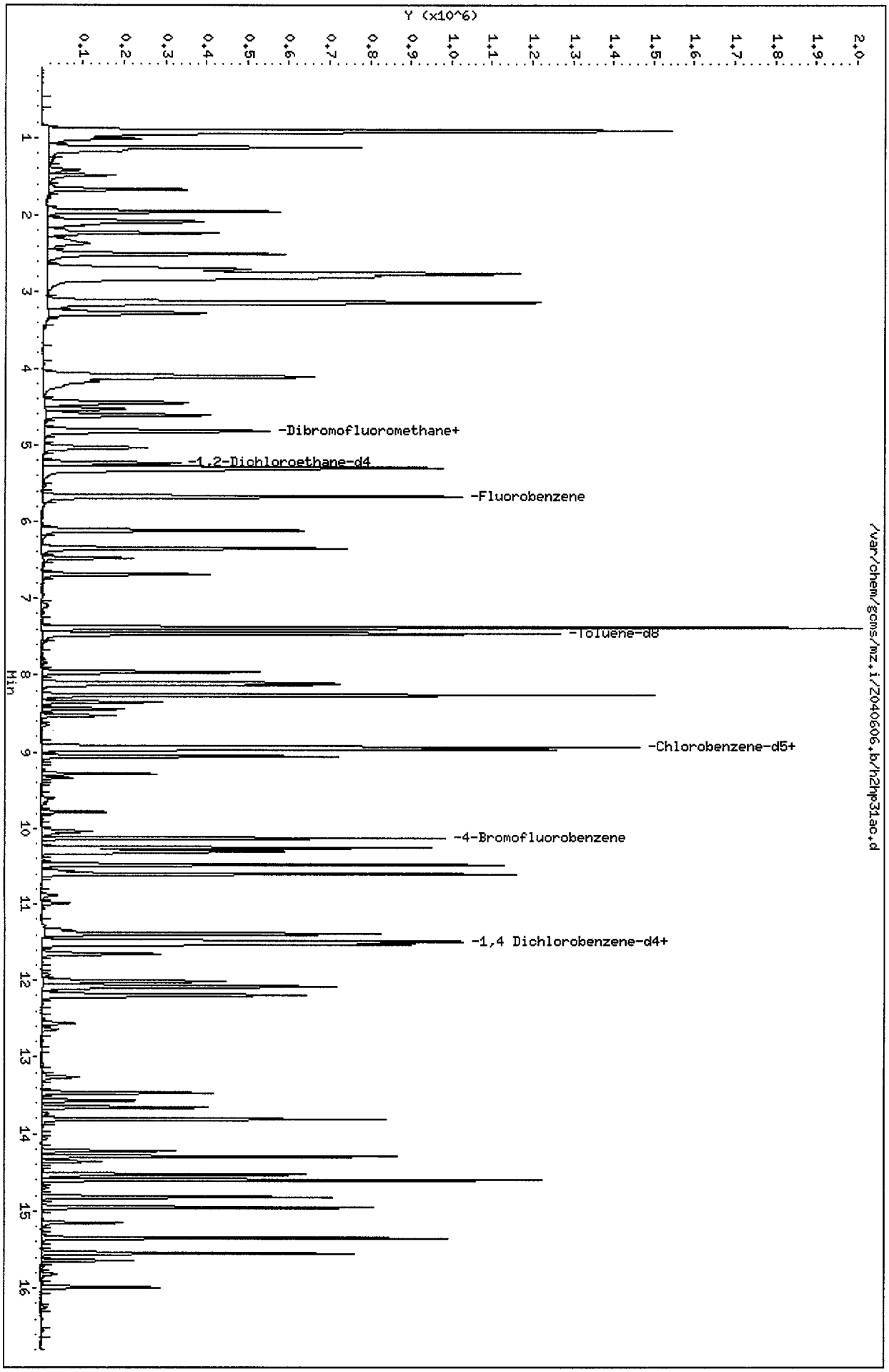
INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: mz.i
Lab File ID: h2hp31ac.d
Lab Smp Id: H2HP31AC
Analysis Type: VOA
Quant Type: ISTD
Operator: 063605
Calibration Date: 06-APR-2006
Calibration Time: 13:58
Client Smp ID: G-2901-R1-CAUSTIC F
Level: LOW
Sample Type: WATER
Method File: /var/chem/gcms/mz.i/Z040606.b/8260B_LM.m
Misc Info: Z040606,8260B,focus.sub

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	938680	469340	1877360	932559	-0.65
2 Chlorobenzene-d5	169233	84616	338466	203507	20.25
3 1,4 Dichlorobenze	201373	100686	402746	293962	45.98

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	5.67	5.17	6.17	5.67	0.09
2 Chlorobenzene-d5	8.93	8.43	9.43	8.93	-0.01
3 1,4 Dichlorobenze	11.49	10.99	11.99	11.49	-0.01

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


Data File: /var/chem/gcms/mz.i/Z040606.b/h2hp31ac.d
Date : 06-APR-2006 23:48
Client ID: G-2901-R1-CAUSTIC F
Sample Info: H2HP31AC,1.3,,MS
Purge Volume: 25.0
Column phase: J+W 624
Instrument: mz.i
Operator: 063605
Column diameter: 0.18
Y (x10^6)
Min
-Dibromofluoromethane+
-1,2-Dichloroethane-d4
-Fluorobenzene
-Toluene-d8
-Chlorobenzene-d5+
-4-Bromofluorobenzene
-1,4 Dichlorobenzene-d4+
/var/chem/gcms/mz.i/Z040606.b/h2hp31ac.d

Data File: /var/chem/gcms/mz.i/Z040606.b/h2hp31ad.d
Report Date: 07-Apr-2006 14:58

STL Knoxville

Volatile Organics by GC/MS

Data file : /var/chem/gcms/mz.i/Z040606.b/h2hp31ad.d
Lab Smp Id: H2HP31AD Client Smp ID: G-2901-R1-CAUSTIC F
Inj Date : 07-APR-2006 00:11
Operator : 063605 Inst ID: mz.i
Smp Info : H2HP31AD,1,3,,MSD
Misc Info : Z040606,8260B,focus.sub
Comment : Volatile Organics by GC/MS
Method : /var/chem/gcms/mz.i/Z040606.b/8260B_LM.m
Meth Date : 07-Apr-2006 14:56 tillerm Quant Type: ISTD
Cal Date : 24-MAR-2006 13:51 Cal File: icvzc248.d
Als bottle: 10 QC Sample: MSD
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: focus.sub
Target Version: 3.50
Processing Host: qmidhp01

Concentration Formula: Amt * DF * Uf*Vt/(Vo*1000) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Unit Correction factor
Vt	25000.00000	Sample Volume Purged
Vo	25.00000	Sample Volume Used

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
* 1 Fluorobenzene	96	5.673	5.667	(1.000)	915341	10.0000	
* 2 Chlorobenzene-d5	119	8.934	8.934	(1.000)	198142	10.0000	
* 3 1,4 Dichlorobenzene-d4	152	11.495	11.489	(1.000)	293407	10.0000	
$ 5 1,2-Dichloroethane-d4	65	5.235	5.229	(0.923)	240502	18.9621	18.962(R)
$ 4 Dibromofluoromethane	113	4.833	4.827	(0.852)	200076	13.6412	13.641(R)
$ 6 Toluene-d8	98	7.461	7.461	(0.835)	696728	8.00284	8.0028
$ 7 4-Bromofluorobenzene	95	10.126	10.120	(0.881)	267404	9.03693	9.0369
10 Dichlorodifluoromethane	85	1.013	1.013	(0.179)	164569	7.36550	7.3655
11 Chloromethane (spcc)	50	1.128	1.123	(0.199)	860402	16.2203	16.220(R)
15 Bromomethane	94	1.414	1.408	(0.249)	57290	6.70127	6.7013(R)
16 Chloroethane	64	1.481	1.481	(0.261)	147604	8.64645	8.6464
18 Trichlorofluoromethane	101	1.670	1.670	(0.294)	236925	8.46844	8.4684
20 1,1-Dichloroethene (ccc)	96	2.071	2.065	(0.365)	11177	0.56184	0.56184(R)
21 *Freon 113	151	2.090	2.084	(0.368)	130675	8.43739	8.4374

Data File: /var/chem/gcms/mz.i/Z040606.b/h2hp31ad.d
Report Date: 07-Apr-2006 14:58

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
22	Acetone	43	2.132	2.126	(0.376)	155026	98.0078	98.008(R)
23	*Iodomethane	142	2.187	2.181	(0.386)	47045	2.49567	2.4957
24	Carbon Disulfide	76	2.236	2.236	(0.394)	446864	6.36344	6.3634
27	Methylene Chloride	84	2.509	2.510	(0.442)	167306	10.9290	10.929
29	*Acrylonitrile	53	2.765	2.759	(0.487)	1224840	358.343	358.34(R)
30	trans-1,2-Dichloroethene	96	2.795	2.795	(0.493)	171817	6.84166	6.8416(R)
33	1,1-Dichloroethane (spcc)	63	3.282	3.276	(0.579)	507209	8.73762	8.7376
34	*Vinyl Acetate	86	3.343	3.404	(0.589)	517	0.42365	0.42365
35	2,2-Dichloropropane	77	4.097	4.091	(0.722)	178564	6.05442	6.0544(R)
36	cis 1,2-Dichloroethene	96	4.122	4.116	(0.727)	225657	9.73458	9.7346
M 8	1,2-Dichloroethene (total)	96				397475	16.5762	16.576
37	2-Butanone	43	4.176	4.170	(0.736)	303271	87.4403	87.440(R)
38	Bromochloromethane	128	4.462	4.450	(0.787)	92197	14.4643	14.464(R)
39	*THF	42	4.535	4.535	(0.799)	240619	110.793	110.79
40	Chloroform (ccc)	83	4.620	4.614	(0.814)	333175	10.0740	10.074
41	1,1,1-Trichloroethane	97	4.815	4.815	(0.849)	233670	7.98255	7.9826
42	Carbon Tetrachloride	117	5.040	5.034	(0.888)	171355	7.35010	7.3501
43	1,1-Dichloropropene	75	5.302	5.046	(0.935)	11704	0.37316	0.37316(R)
44	Benzene	78	5.302	5.296	(0.935)	710455	7.87061	7.8706(R)
45	1,2-Dichloroethane	62	5.332	5.326	(0.940)	321627	16.8262	16.826(R)
46	Trichloroethene	130	6.117	6.111	(1.078)	203532	8.01564	8.0156
47	1,2-Dichloropropane (ccc)	63	6.348	6.342	(1.119)	292134	11.8451	11.845
49	Dibromomethane	93	6.482	6.476	(1.143)	79977	15.5723	15.572(R)
50	Bromodichloromethane	83	6.689	6.689	(1.179)	217038	13.4075	13.407(R)
53	4-Methyl-2-pentanone	43	7.382	7.376	(1.301)	1568849	196.266	196.27(R)
55	trans-1,3-Dichloropropene	75	7.784	7.784	(0.871)	568	0.65682	0.65682(R)
57	1,1,2-Trichloroethane	97	7.966	7.960	(0.892)	138597	15.1434	15.143(R)
58	Tetrachloroethene	164	8.100	8.094	(0.907)	138467	5.92016	5.9202(R)
59	1,3-Dichloropropane	76	8.124	8.125	(0.909)	239037	14.9003	14.900(R)
60	2-Hexanone	43	8.258	8.252	(0.924)	1028843	167.794	167.79(R)
61	Chlorodibromomethane	129	8.350	8.350	(0.935)	124936	12.7448	12.745
62	1,2-Dibromoethane	107	8.441	8.441	(0.945)	121332	14.8039	14.804(R)
63	Chlorobenzene (spcc)	112	8.964	8.958	(1.003)	520633	8.27214	8.2721
64	1,1,1,2-Tetrachloroethane	131	9.061	9.055	(1.014)	151197	9.55313	9.5531
69	Bromoform (spcc)	173	9.785	9.779	(1.095)	68156	20.2937	20.294(R)
72	Bromobenzene	156	10.260	10.254	(1.148)	217754	11.7675	11.768
73	1,1,2,2-Tetrachloroethane(sp)	83	10.296	10.290	(1.153)	141214	20.6839	20.684(R)
74	1,2,3-Trichloropropane	110	10.321	10.315	(0.898)	39560	15.6606	15.661(R)
76	n-Propylbenzene	91	10.479	10.412	(0.912)	526571	2.96501	2.9650(R)
77	2-Chlorotoluene	91	10.479	10.473	(0.912)	526571	5.59083	5.5908(R)
79	4-Chlorotoluene	91	10.600	10.601	(0.922)	541292	5.40993	5.4099(R)
83	1,3-Dichlorobenzene	146	11.391	11.391	(0.991)	370842	7.22041	7.2204
85	1,4-Dichlorobenzene	146	11.525	11.519	(1.003)	392139	8.20821	8.2082
86	1,2-Dichlorobenzene	146	12.085	12.079	(1.051)	375398	9.90718	9.9072
87	n-Butylbenzene	91	12.194	12.146	(1.061)	353659	2.85736	2.8574(R)
88	1,2-Dibromo-3-chloropropane	157	13.265	13.253	(1.154)	27198	19.2430	19.243(R)
89	1,2,4-Trichlorobenzene	180	14.299	14.293	(1.244)	243084	10.5848	10.585

Data File: /var/chem/gcms/mz.i/Z040606.b/h2hp31ad.d
Report Date: 07-Apr-2006 14:58

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
90 Hexachlorobutadiene	225	14.530	14.530	(1.264)	116449	5.40688	5.4069(R)
92 1,2,3-Trichlorobenzene	180	14.822	14.816	(1.289)	212254	14.0303	14.030(R)

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

Data File: /var/chem/gcms/mz.i/Z040606.b/h2hp31ad.d
Report Date: 07-Apr-2006 14:58

STL Knoxville

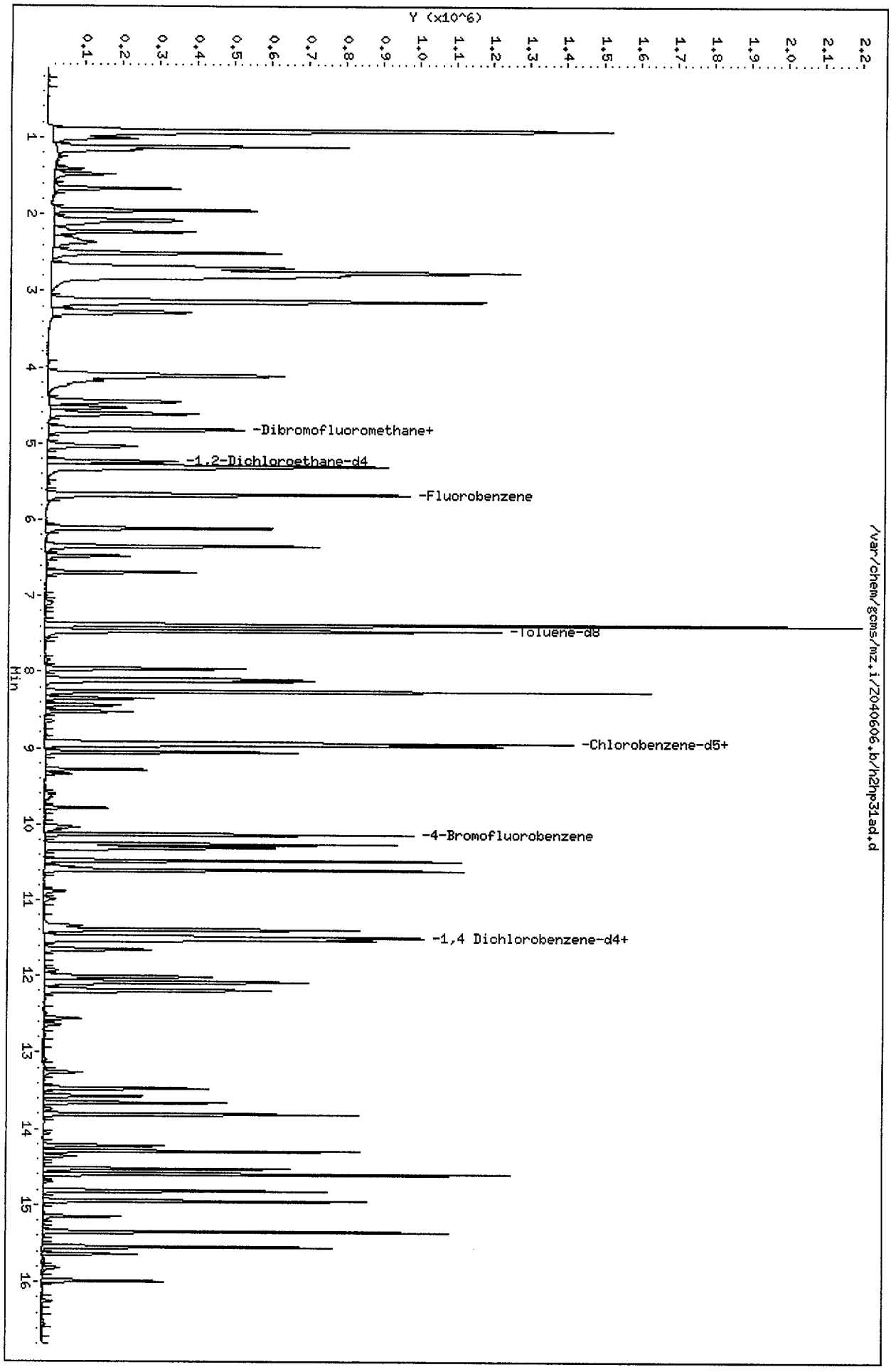
INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: mz.i
Lab File ID: h2hp31ad.d
Lab Smp Id: H2HP31AD
Analysis Type: VOA
Quant Type: ISTD
Operator: 063605
Calibration Date: 06-APR-2006
Calibration Time: 13:58
Client Smp ID: G-2901-R1-CAUSTIC F
Level: LOW
Sample Type: WATER
Method File: /var/chem/gcms/mz.i/Z040606.b/8260B_LM.m
Misc Info: Z040606,8260B,focus.sub

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	938680	469340	1877360	915341	-2.49
2 Chlorobenzene-d5	169233	84616	338466	198142	17.08
3 1,4 Dichlorobenze	201373	100686	402746	293407	45.70

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	5.67	5.17	6.17	5.67	0.10
2 Chlorobenzene-d5	8.93	8.43	9.43	8.93	0.00
3 1,4 Dichlorobenze	11.49	10.99	11.99	11.49	0.05

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


Data File: /var/chem/gcms/mz.i/Z040606.b/h2hp31ad.d
Date : 07-APR-2006 00:11
Client ID: G-2901-R1-CAUSTIC F
Sample Info: H2HP31AD,1.3,MSD
Purge Volume: 25.0
Column phase: J+W 624
Instrument: mz.i
Operator: 063605
Column diameter: 0.18
Y (x10^6)
Min
-Dibromofluoromethane+
-1,2-Dichloroethane-d4
-Fluorobenzene
-Toluene-d8
-Chlorobenzene-d5+
-4-Bromofluorobenzene
-1,4 Dichlorobenzene-d4+
/var/chem/gcms/mz.i/Z040606.b/h2hp31ad.d

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: H6D030205 **Work Order #...:** H2HQD1AC-MS **Matrix.....:** WATER
MS Lot-Sample #: H6D030205-005 H2HQD1AD-MSD
Date Sampled...: 03/28/06 **Date Received..:** 04/02/06
Prep Date.....: 04/06/06 **Analysis Date..:** 04/07/06
Prep Batch #...: 6096330
Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Acetone	102	(43 - 141)			SW846 8260B
	86	(43 - 141)	15	(0-50)	SW846 8260B
Acrylonitrile	99	(50 - 130)			SW846 8260B
	102	(50 - 130)	2.9	(0-30)	SW846 8260B
Benzene	**81**	**(73 - 125)**			**SW846 8260B**
	86	**(73 - 125)**	**5.3**	**(0-20)**	**SW846 8260B**
Bromobenzene	92	(77 - 122)			SW846 8260B
	95	(77 - 122)	3.9	(0-20)	SW846 8260B
Bromochloromethane	92	(73 - 124)			SW846 8260B
	98	(73 - 124)	6.0	(0-21)	SW846 8260B
Bromodichloromethane	84	(57 - 129)			SW846 8260B
	85	(57 - 129)	1.1	(0-22)	SW846 8260B
Bromoform	119	(49 - 141)			SW846 8260B
	143 a	(49 - 141)	4.6	(0-27)	SW846 8260B
Bromomethane	110	(30 - 168)			SW846 8260B
	117	(30 - 168)	6.4	(0-29)	SW846 8260B
2-Butanone	106	(50 - 143)			SW846 8260B
	103	(50 - 143)	2.8	(0-37)	SW846 8260B
n-Butylbenzene	82	(48 - 135)			SW846 8260B
	87	(48 - 135)	5.5	(0-21)	SW846 8260B
sec-Butylbenzene	83	(52 - 135)			SW846 8260B
	87	(52 - 135)	4.8	(0-20)	SW846 8260B
tert-Butylbenzene	83	(54 - 130)			SW846 8260B
	90	(54 - 130)	8.0	(0-20)	SW846 8260B
Carbon disulfide	87	(60 - 132)			SW846 8260B
	92	(60 - 132)	5.6	(0-20)	SW846 8260B
Carbon tetrachloride	86	(53 - 133)			SW846 8260B
	91	(53 - 133)	5.3	(0-29)	SW846 8260B
Chlorobenzene	**85**	**(71 - 125)**			**SW846 8260B**
	93	**(71 - 125)**	**9.6**	**(0-20)**	**SW846 8260B**
Chlorodibromomethane	96	(61 - 132)			SW846 8260B
	114	(61 - 132)	8.0	(0-27)	SW846 8260B
Chloroethane	96	(61 - 151)			SW846 8260B
	103	(61 - 151)	7.4	(0-20)	SW846 8260B
Chloroform	86	(66 - 122)			SW846 8260B
	91	(66 - 122)	5.4	(0-20)	SW846 8260B
Chloromethane	99	(46 - 140)			SW846 8260B
	105	(46 - 140)	5.2	(0-20)	SW846 8260B
2-Chlorotoluene	80	(55 - 131)			SW846 8260B
	88	(55 - 131)	9.1	(0-20)	SW846 8260B

(Continued on next page)

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: H6D030205 **Work Order #...:** H2HQD1AC-MS **Matrix.....:** WATER
MS Lot-Sample #: H6D030205-005 H2HQD1AD-MSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
4-Chlorotoluene	77	(55 - 133)			SW846 8260B
	88	(55 - 133)	13	(0-20)	SW846 8260B
1,2-Dibromo-3-chloro-propane	93	(41 - 143)			SW846 8260B
	105	(41 - 143)	12	(0-38)	SW846 8260B
1,2-Dibromoethane	92	(65 - 123)			SW846 8260B
	99	(65 - 123)	7.4	(0-20)	SW846 8260B
Dibromomethane	95	(64 - 126)			SW846 8260B
	92	(64 - 126)	3.0	(0-21)	SW846 8260B
1,2-Dichlorobenzene	85	(66 - 123)			SW846 8260B
	92	(66 - 123)	7.2	(0-20)	SW846 8260B
1,3-Dichlorobenzene	85	(67 - 123)			SW846 8260B
	92	(67 - 123)	7.3	(0-20)	SW846 8260B
1,4-Dichlorobenzene	84	(65 - 126)			SW846 8260B
	93	(65 - 126)	10	(0-20)	SW846 8260B
Dichlorodifluoromethane	89	(32 - 151)			SW846 8260B
	93	(32 - 151)	4.0	(0-25)	SW846 8260B
1,1-Dichloroethane	88	(68 - 127)			SW846 8260B
	94	(68 - 127)	6.4	(0-20)	SW846 8260B
1,2-Dichloroethane	97	(62 - 126)			SW846 8260B
	99	(62 - 126)	2.4	(0-20)	SW846 8260B
cis-1,2-Dichloroethene	85	(56 - 134)			SW846 8260B
	90	(56 - 134)	5.6	(0-20)	SW846 8260B
trans-1,2-Dichloroethene	86	(70 - 124)			SW846 8260B
	89	(70 - 124)	4.0	(0-20)	SW846 8260B
1,1-Dichloroethene	**94**	**(62 - 128)**			**SW846 8260B**
	102	**(62 - 128)**	**8.9**	**(0-26)**	**SW846 8260B**
1,2-Dichloropropane	91	(72 - 122)			SW846 8260B
	96	(72 - 122)	5.5	(0-20)	SW846 8260B
1,3-Dichloropropane	85	(68 - 122)			SW846 8260B
	92	(68 - 122)	7.4	(0-20)	SW846 8260B
2,2-Dichloropropane	75	(34 - 149)			SW846 8260B
	80	(34 - 149)	6.0	(0-32)	SW846 8260B
cis-1,3-Dichloropropene	90	(50 - 130)			SW846 8260B
	92	(50 - 130)	2.0	(0-24)	SW846 8260B
trans-1,3-Dichloropropene	78	(42 - 132)			SW846 8260B
	84	(42 - 132)	7.4	(0-27)	SW846 8260B
1,1-Dichloropropene	89	(71 - 122)			SW846 8260B
	90	(71 - 122)	0.98	(0-20)	SW846 8260B
Ethylbenzene	86	(70 - 130)			SW846 8260B
	93	(70 - 130)	8.0	(0-20)	SW846 8260B

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MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: H6D030205 **Work Order #...:** H2HQD1AC-MS **Matrix.....:** WATER
MS Lot-Sample #: H6D030205-005 H2HQD1AD-MSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Hexachlorobutadiene	92	(58 - 123)			SW846 8260B
	97	(58 - 123)	4.9	(0-25)	SW846 8260B
2-Hexanone	104	(57 - 132)			SW846 8260B
	108	(57 - 132)	3.6	(0-50)	SW846 8260B
Isopropylbenzene	88	(69 - 130)			SW846 8260B
	91	(69 - 130)	4.3	(0-20)	SW846 8260B
p-Isopropyltoluene	83	(53 - 132)			SW846 8260B
	89	(53 - 132)	7.6	(0-20)	SW846 8260B
Methylene chloride	83	(53 - 131)			SW846 8260B
	80	(53 - 131)	2.8	(0-20)	SW846 8260B
4-Methyl-2-pentanone	105	(61 - 133)			SW846 8260B
	106	(61 - 133)	1.6	(0-23)	SW846 8260B
Naphthalene	80	(44 - 141)			SW846 8260B
	97	(44 - 141)	19	(0-38)	SW846 8260B
n-Propylbenzene	81	(53 - 136)			SW846 8260B
	88	(53 - 136)	8.3	(0-20)	SW846 8260B
Styrene	3.7 a	(69 - 129)			SW846 8260B
	3.3 a	(69 - 129)	11	(0-20)	SW846 8260B
1,1,1,2-Tetrachloroethane	86	(63 - 127)			SW846 8260B
	93	(63 - 127)	8.6	(0-25)	SW846 8260B
1,1,2,2-Tetrachloroethane	98	(65 - 128)			SW846 8260B
	97	(65 - 128)	1.4	(0-20)	SW846 8260B
Tetrachloroethene	85	(66 - 136)			SW846 8260B
	91	(66 - 136)	7.3	(0-20)	SW846 8260B
Toluene	**83**	**(69 - 129)**			**SW846 8260B**
	91	**(69 - 129)**	**8.3**	**(0-20)**	**SW846 8260B**
1,2,3-Trichlorobenzene	100	(56 - 131)			SW846 8260B
	110	(56 - 131)	8.9	(0-36)	SW846 8260B
1,2,4-Trichloro-benzene	94	(59 - 129)			SW846 8260B
	102	(59 - 129)	7.8	(0-28)	SW846 8260B
1,1,1-Trichloroethane	94	(55 - 129)			SW846 8260B
	97	(55 - 129)	3.0	(0-24)	SW846 8260B
1,1,2-Trichloroethane	93	(65 - 124)			SW846 8260B
	96	(65 - 124)	2.7	(0-20)	SW846 8260B
Trichloroethene	**91**	**(56 - 137)**			**SW846 8260B**
	94	**(56 - 137)**	**2.9**	**(0-20)**	**SW846 8260B**
Trichlorofluoromethane	106	(61 - 144)			SW846 8260B
	107	(61 - 144)	1.6	(0-20)	SW846 8260B
1,2,3-Trichloropropane	77	(54 - 128)			SW846 8260B
	83	(54 - 128)	8.0	(0-32)	SW846 8260B

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MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: H6D030205 **Work Order #...:** H2HQD1AC-MS **Matrix.....:** WATER
MS Lot-Sample #: H6D030205-005 H2HQD1AD-MSD

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
1,2,4-Trimethylbenzene	79	(55 - 130)			SW846 8260B
	88	(55 - 130)	11	(0-20)	SW846 8260B
1,3,5-Trimethylbenzene	31 a	(56 - 133)			SW846 8260B
	61 p	(56 - 133)	64	(0-20)	SW846 8260B
Vinyl chloride	104	(65 - 139)			SW846 8260B
	104	(65 - 139)	0.21	(0-21)	SW846 8260B
m-Xylene & p-Xylene	88	(65 - 137)			SW846 8260B
	93	(65 - 137)	4.5	(0-20)	SW846 8260B
o-Xylene	90	(69 - 129)			SW846 8260B
	95	(69 - 129)	6.0	(0-20)	SW846 8260B
Xylenes (total)	89	(67 - 134)			SW846 8260B
	93	(67 - 134)	5.0	(0-20)	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	111	(79 - 120)
	111	(79 - 120)
1,2-Dichloroethane-d4	114	(71 - 127)
	109	(71 - 127)
Toluene-d8	100	(80 - 120)
	102	(80 - 120)
Bromofluorobenzene	91	(69 - 126)
	92	(69 - 126)

NOTE(S):

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

Bold print denotes control parameters

a Spiked analyte recovery is outside stated control limits.

p Relative percent difference (RPD) is outside stated control limits.

MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: H6D030205 **Work Order #...:** H2HQD1AC-MS **Matrix.....:** WATER
MS Lot-Sample #: H6D030205-005 H2HQD1AD-MSD
Date Sampled...: 03/28/06 **Date Received..:** 04/02/06
Prep Date.....: 04/06/06 **Analysis Date..:** 04/07/06
Prep Batch #...: 6096330
Dilution Factor: 1

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
Acetone	4.4	40.0	45.1	ug/L	102		SW846 8260B
	4.4	40.0	38.6	ug/L	86	15	SW846 8260B
Acrylonitrile	ND	200	197	ug/L	99		SW846 8260B
	ND	200	203	ug/L	102	2.9	SW846 8260B
Benzene	**ND**	**10.0**	**8.12**	**ug/L**	**81**		**SW846 8260B**
	ND	**10.0**	**8.56**	**ug/L**	**86**	**5.3**	**SW846 8260B**
Bromobenzene	ND	10.0	9.15	ug/L	92		SW846 8260B
	ND	10.0	9.51	ug/L	95	3.9	SW846 8260B
Bromochloromethane	ND	10.0	9.21	ug/L	92		SW846 8260B
	ND	10.0	9.79	ug/L	98	6.0	SW846 8260B
Bromodichloromethane	3.2	10.0	11.6	ug/L	84		SW846 8260B
	3.2	10.0	11.8	ug/L	85	1.1	SW846 8260B
Bromoform	40	10.0	52.3	ug/L	119		SW846 8260B
	40	10.0	54.7	ug/L	143 a	4.6	SW846 8260B
Bromomethane	ND	10.0	11.0	ug/L	110		SW846 8260B
	ND	10.0	11.7	ug/L	117	6.4	SW846 8260B
2-Butanone	ND	40.0	42.3	ug/L	106		SW846 8260B
	ND	40.0	41.1	ug/L	103	2.8	SW846 8260B
n-Butylbenzene	ND	10.0	8.25	ug/L	82		SW846 8260B
	ND	10.0	8.72	ug/L	87	5.5	SW846 8260B
sec-Butylbenzene	ND	10.0	8.27	ug/L	83		SW846 8260B
	ND	10.0	8.68	ug/L	87	4.8	SW846 8260B
tert-Butylbenzene	ND	10.0	8.27	ug/L	83		SW846 8260B
	ND	10.0	8.96	ug/L	90	8.0	SW846 8260B
Carbon disulfide	ND	10.0	8.70	ug/L	87		SW846 8260B
	ND	10.0	9.19	ug/L	92	5.6	SW846 8260B
Carbon tetrachloride	ND	10.0	8.62	ug/L	86		SW846 8260B
	ND	10.0	9.09	ug/L	91	5.3	SW846 8260B
Chlorobenzene	**ND**	**10.0**	**8.48**	**ug/L**	**85**		**SW846 8260B**
	ND	**10.0**	**9.34**	**ug/L**	**93**	**9.6**	**SW846 8260B**
Chlorodibromomethane	13	10.0	22.1	ug/L	96		SW846 8260B
	13	10.0	24.0	ug/L	114	8.0	SW846 8260B
Chloroethane	ND	10.0	9.55	ug/L	96		SW846 8260B
	ND	10.0	10.3	ug/L	103	7.4	SW846 8260B
Chloroform	0.56	10.0	9.13	ug/L	86		SW846 8260B
	0.56	10.0	9.64	ug/L	91	5.4	SW846 8260B
Chloromethane	ND	10.0	9.93	ug/L	99		SW846 8260B
	ND	10.0	10.5	ug/L	105	5.2	SW846 8260B
2-Chlorotoluene	ND	10.0	8.03	ug/L	80		SW846 8260B
	ND	10.0	8.80	ug/L	88	9.1	SW846 8260B

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MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: H6D030205 **Work Order #...:** H2HQD1AC-MS **Matrix.....:** WATER
MS Lot-Sample #: H6D030205-005 H2HQD1AD-MSD

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
4-Chlorotoluene	ND	10.0	7.73	ug/L	77		SW846 8260B
	ND	10.0	8.83	ug/L	88	13	SW846 8260B
1,2-Dibromo-3-chloro-propane	ND	10.0	9.31	ug/L	93		SW846 8260B
	ND	10.0	10.5	ug/L	105	12	SW846 8260B
1,2-Dibromoethane	ND	10.0	9.16	ug/L	92		SW846 8260B
	ND	10.0	9.86	ug/L	99	7.4	SW846 8260B
Dibromomethane	ND	10.0	9.46	ug/L	95		SW846 8260B
	ND	10.0	9.18	ug/L	92	3.0	SW846 8260B
1,2-Dichlorobenzene	ND	10.0	8.52	ug/L	85		SW846 8260B
	ND	10.0	9.16	ug/L	92	7.2	SW846 8260B
1,3-Dichlorobenzene	ND	10.0	8.53	ug/L	85		SW846 8260B
	ND	10.0	9.18	ug/L	92	7.3	SW846 8260B
1,4-Dichlorobenzene	ND	10.0	8.43	ug/L	84		SW846 8260B
	ND	10.0	9.33	ug/L	93	10	SW846 8260B
Dichlorodifluoromethane	ND	10.0	8.92	ug/L	89		SW846 8260B
	ND	10.0	9.28	ug/L	93	4.0	SW846 8260B
1,1-Dichloroethane	ND	10.0	8.77	ug/L	88		SW846 8260B
	ND	10.0	9.36	ug/L	94	6.4	SW846 8260B
1,2-Dichloroethane	ND	10.0	9.66	ug/L	97		SW846 8260B
	ND	10.0	9.89	ug/L	99	2.4	SW846 8260B
cis-1,2-Dichloroethene	ND	10.0	8.52	ug/L	85		SW846 8260B
	ND	10.0	9.01	ug/L	90	5.6	SW846 8260B
trans-1,2-Dichloroethene	ND	10.0	8.59	ug/L	86		SW846 8260B
	ND	10.0	8.94	ug/L	89	4.0	SW846 8260B
1,1-Dichloroethene	**ND**	**10.0**	**9.36**	**ug/L**	**94**		**SW846 8260B**
	ND	**10.0**	**10.2**	**ug/L**	**102**	**8.9**	**SW846 8260B**
1,2-Dichloropropane	ND	10.0	9.10	ug/L	91		SW846 8260B
	ND	10.0	9.62	ug/L	96	5.5	SW846 8260B
1,3-Dichloropropane	ND	10.0	8.51	ug/L	85		SW846 8260B
	ND	10.0	9.17	ug/L	92	7.4	SW846 8260B
2,2-Dichloropropane	ND	10.0	7.52	ug/L	75		SW846 8260B
	ND	10.0	7.99	ug/L	80	6.0	SW846 8260B
cis-1,3-Dichloropropene	ND	10.0	9.03	ug/L	90		SW846 8260B
	ND	10.0	9.21	ug/L	92	2.0	SW846 8260B
trans-1,3-Dichloropropene	ND	10.0	7.85	ug/L	78		SW846 8260B
	ND	10.0	8.45	ug/L	84	7.4	SW846 8260B
1,1-Dichloropropene	ND	10.0	8.91	ug/L	89		SW846 8260B
	ND	10.0	9.00	ug/L	90	0.98	SW846 8260B
Ethylbenzene	ND	10.0	8.58	ug/L	86		SW846 8260B
	ND	10.0	9.29	ug/L	93	8.0	SW846 8260B

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MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: H6D030205 **Work Order #...:** H2HQD1AC-MS **Matrix.....:** WATER
MS Lot-Sample #: H6D030205-005 H2HQD1AD-MSD

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
Hexachlorobutadiene	ND	10.0	9.20	ug/L	92		SW846 8260B
	ND	10.0	9.66	ug/L	97	4.9	SW846 8260B
2-Hexanone	ND	40.0	41.6	ug/L	104		SW846 8260B
	ND	40.0	43.2	ug/L	108	3.6	SW846 8260B
Isopropylbenzene	ND	10.0	8.76	ug/L	88		SW846 8260B
	ND	10.0	9.15	ug/L	91	4.3	SW846 8260B
p-Isopropyltoluene	ND	10.0	8.25	ug/L	83		SW846 8260B
	ND	10.0	8.90	ug/L	89	7.6	SW846 8260B
Methylene chloride	0.55	10.0	8.81	ug/L	83		SW846 8260B
	0.55	10.0	8.57	ug/L	80	2.8	SW846 8260B
4-Methyl-2-pentanone	ND	40.0	41.9	ug/L	105		SW846 8260B
	ND	40.0	42.5	ug/L	106	1.6	SW846 8260B
Naphthalene	ND	10.0	8.00	ug/L	80		SW846 8260B
	ND	10.0	9.66	ug/L	97	19	SW846 8260B
n-Propylbenzene	ND	10.0	8.08	ug/L	81		SW846 8260B
	ND	10.0	8.78	ug/L	88	8.3	SW846 8260B
Styrene	ND	10.0	0.367	ug/L	3.7 a		SW846 8260B
	ND	10.0	0.329	ug/L	3.3 a	11	SW846 8260B
1,1,1,2-Tetrachloroethane	ND	10.0	8.56	ug/L	86		SW846 8260B
	ND	10.0	9.33	ug/L	93	8.6	SW846 8260B
1,1,2,2-Tetrachloroethane	ND	10.0	9.79	ug/L	98		SW846 8260B
	ND	10.0	9.65	ug/L	97	1.4	SW846 8260B
Tetrachloroethene	0.33	10.0	8.79	ug/L	85		SW846 8260B
	0.33	10.0	9.46	ug/L	91	7.3	SW846 8260B
Toluene	**ND**	**10.0**	**8.33**	**ug/L**	**83**		**SW846 8260B**
	ND	**10.0**	**9.05**	**ug/L**	**91**	**8.3**	**SW846 8260B**
1,2,3-Trichlorobenzene	ND	10.0	10.0	ug/L	100		SW846 8260B
	ND	10.0	11.0	ug/L	110	8.9	SW846 8260B
1,2,4-Trichloro-benzene	ND	10.0	9.40	ug/L	94		SW846 8260B
	ND	10.0	10.2	ug/L	102	7.8	SW846 8260B
1,1,1-Trichloroethane	ND	10.0	9.40	ug/L	94		SW846 8260B
	ND	10.0	9.68	ug/L	97	3.0	SW846 8260B
1,1,2-Trichloroethane	ND	10.0	9.32	ug/L	93		SW846 8260B
	ND	10.0	9.58	ug/L	96	2.7	SW846 8260B
Trichloroethene	**ND**	**10.0**	**9.10**	**ug/L**	**91**		**SW846 8260B**
	ND	**10.0**	**9.37**	**ug/L**	**94**	**2.9**	**SW846 8260B**
Trichlorofluoromethane	ND	10.0	10.6	ug/L	106		SW846 8260B
	ND	10.0	10.7	ug/L	107	1.6	SW846 8260B
1,2,3-Trichloropropane	ND	10.0	7.70	ug/L	77		SW846 8260B
	ND	10.0	8.34	ug/L	83	8.0	SW846 8260B

(Continued on next page)

MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: H6D030205 **Work Order #...:** H2HQD1AC-MS **Matrix.....:** WATER
MS Lot-Sample #: H6D030205-005 H2HQD1AD-MSD

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
1,2,4-Trimethylbenzene	ND	10.0	7.90	ug/L	79		SW846 8260B
	ND	10.0	8.84	ug/L	88	11	SW846 8260B
1,3,5-Trimethylbenzene	ND	10.0	3.13	ug/L	31 a		SW846 8260B
	ND	10.0	6.07	ug/L	61 p	64	SW846 8260B
Vinyl chloride	ND	10.0	10.4	ug/L	104		SW846 8260B
	ND	10.0	10.4	ug/L	104	0.21	SW846 8260B
m-Xylene & p-Xylene	ND	20.0	17.7	ug/L	88		SW846 8260B
	ND	20.0	18.5	ug/L	93	4.5	SW846 8260B
o-Xylene	ND	10.0	8.97	ug/L	90		SW846 8260B
	ND	10.0	9.53	ug/L	95	6.0	SW846 8260B
Xylenes (total)	ND	30.0	26.7	ug/L	89		SW846 8260B
	ND	30.0	28.0	ug/L	93	5.0	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	111	(79 - 120)
	111	(79 - 120)
1,2-Dichloroethane-d4	114	(71 - 127)
	109	(71 - 127)
Toluene-d8	100	(80 - 120)
	102	(80 - 120)
Bromofluorobenzene	91	(69 - 126)
	92	(69 - 126)

NOTE(S):

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

Bold print denotes control parameters

a Spiked analyte recovery is outside stated control limits.

p Relative percent difference (RPD) is outside stated control limits.

Data File: /var/chem/gcms/mz.i/Z040606.b/h2hqd1ac.d
Report Date: 07-Apr-2006 14:59

STL Knoxville

Volatile Organics by GC/MS

Data file : /var/chem/gcms/mz.i/Z040606.b/h2hqd1ac.d
Lab Smp Id: H2HQD1AC Client Smp ID: G-2905-R1-MAKE-UP W
Inj Date : 07-APR-2006 00:34
Operator : 063605 Inst ID: mz.i
Smp Info : H2HQD1AC,1,3,,MS
Misc Info : Z040606,8260B,focus.sub
Comment : Volatile Organics by GC/MS
Method : /var/chem/gcms/mz.i/Z040606.b/8260B_LM.m
Meth Date : 07-Apr-2006 14:56 tillerm Quant Type: ISTD
Cal Date : 24-MAR-2006 13:51 Cal File: icvzc248.d
Als bottle: 11 QC Sample: MS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: focus.sub
Target Version: 3.50
Processing Host: qmidhp01

Concentration Formula: Amt * DF * Uf*Vt/(Vo*1000) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Unit Correction factor
Vt	25000.00000	Sample Volume Purged
Vo	25.00000	Sample Volume Used

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)
* 1 Fluorobenzene	96	5.676	5.667	(1.000)	886232	10.0000	
* 2 Chlorobenzene-d5	119	8.937	8.934	(1.000)	164582	10.0000	
* 3 1,4 Dichlorobenzene-d4	152	11.492	11.489	(1.000)	212349	10.0000	
$ 5 1,2-Dichloroethane-d4	65	5.238	5.229	(0.923)	139837	11.3874	11.387
$ 4 Dibromofluoromethane	113	4.830	4.827	(0.851)	157883	11.1180	11.118
$ 6 Toluene-d8	98	7.464	7.461	(0.835)	723602	10.0063	10.006
$ 7 4-Bromofluorobenzene	95	10.129	10.120	(0.881)	193815	9.05022	9.0502
10 Dichlorodifluoromethane	85	1.016	1.013	(0.179)	192984	8.92094	8.9209
11 Chloromethane (spcc)	50	1.125	1.123	(0.198)	521138	9.93138	9.9314
12 Vinyl Chloride (ccc)	62	1.198	1.195	(0.211)	363596	10.4166	10.417
15 Bromomethane	94	1.411	1.408	(0.249)	95839	10.9715	10.971
16 Chloroethane	64	1.484	1.481	(0.262)	157907	9.55383	9.5538
18 Trichlorofluoromethane	101	1.673	1.670	(0.295)	286081	10.5613	10.561
20 1,1-Dichloroethene (ccc)	96	2.075	2.065	(0.365)	180321	9.36182	9.3618

Data File: /var/chem/gcms/mz.i/Z040606.b/h2hqd1ac.d
Report Date: 07-Apr-2006 14:59

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)
	21 *Freon 113	151	2.093	2.084	(0.369)	151963	10.1342	10.134
	22 Acetone	43	2.129	2.126	(0.375)	92052	45.1000	45.100
	23 *Iodomethane	142	2.184	2.181	(0.385)	162151	7.54764	7.5476
	24 Carbon Disulfide	76	2.239	2.236	(0.394)	591288	8.69664	8.6966
	27 Methylene Chloride	84	2.513	2.510	(0.443)	130582	8.81019	8.8102
	29 *Acrylonitrile	53	2.762	2.759	(0.487)	653132	197.359	197.36
	30 trans-1,2-Dichloroethene	96	2.798	2.795	(0.493)	208933	8.59285	8.5928
	33 1,1-Dichloroethane (spcc)	63	3.285	3.276	(0.579)	493153	8.77452	8.7745
	34 *Vinyl Acetate	86	3.419	3.404	(0.602)	3155	2.67024	2.6702
	35 2,2-Dichloropropane	77	4.100	4.091	(0.722)	214780	7.52154	7.5215
	36 cis 1,2-Dichloroethene	96	4.125	4.116	(0.727)	191164	8.51747	8.5175
M	8 1,2-Dichloroethene (total)	96				400098	17.1103	17.110
	37 2-Butanone	43	4.179	4.170	(0.736)	141943	42.2700	42.270
	38 Bromochloromethane	128	4.453	4.450	(0.785)	56868	9.21489	9.2149
	39 *THF	42	4.532	4.535	(0.798)	82606	39.2855	39.286
	40 Chloroform (ccc)	83	4.617	4.614	(0.814)	292447	9.13299	9.1330
	41 1,1,1-Trichloroethane	97	4.818	4.815	(0.849)	266393	9.39935	9.3994
	42 Carbon Tetrachloride	117	5.043	5.034	(0.889)	195912	8.61805	8.6180
	43 1,1-Dichloropropene	75	5.049	5.046	(0.890)	270644	8.91170	8.9117
	44 Benzene	78	5.299	5.296	(0.934)	709267	8.11553	8.1155
	45 1,2-Dichloroethane	62	5.335	5.326	(0.940)	178781	9.66033	9.6603
	46 Trichloroethene	130	6.114	6.111	(1.077)	223742	9.10102	9.1010
	47 1,2-Dichloropropane (ccc)	63	6.351	6.342	(1.119)	217365	9.10293	9.1029
	49 Dibromomethane	93	6.479	6.476	(1.141)	47017	9.45538	9.4554
	50 Bromodichloromethane	83	6.692	6.689	(1.179)	180615	11.6271	11.627
	52 cis-1,3-Dichloropropene	75	7.191	7.182	(1.267)	175009	9.02615	9.0261
	53 4-Methyl-2-pentanone	43	7.385	7.376	(1.301)	323895	41.8510	41.851
	54 Toluene (ccc)	91	7.531	7.528	(0.843)	780059	8.32822	8.3282
	55 trans-1,3-Dichloropropene	75	7.787	7.784	(0.871)	108134	7.84847	7.8485
	57 1,1,2-Trichloroethane	97	7.963	7.960	(0.891)	70860	9.32105	9.3210
	58 Tetrachloroethene	164	8.097	8.094	(0.906)	170810	8.79215	8.7921
	59 1,3-Dichloropropane	76	8.128	8.125	(0.909)	113441	8.51327	8.5133
	60 2-Hexanone	43	8.255	8.252	(0.924)	211926	41.6107	41.611
	61 Chlorodibromomethane	129	8.353	8.350	(0.935)	185208	22.1406	22.141(R)
	62 1,2-Dibromoethane	107	8.438	8.441	(0.944)	62348	9.15833	9.1583
	63 Chlorobenzene (spcc)	112	8.961	8.958	(1.003)	443097	8.47578	8.4758
	65 Ethylbenzene (ccc)	106	9.101	9.098	(1.018)	288891	8.57624	8.5762
	64 1,1,1,2-Tetrachloroethane	131	9.058	9.055	(1.014)	112109	8.56244	8.5624
	66 m&p-Xylene	106	9.223	9.220	(1.032)	720554	17.6943	17.694
	67 o-Xylene	106	9.612	9.609	(1.076)	322691	8.97165	8.9716
M	9 Xylene (total)	106				1043245	26.6660	26.666
	68 Styrene	104	9.612	9.627	(1.076)	18514	0.36663	0.36663(R)
	69 Bromoform (spcc)	173	9.782	9.779	(1.095)	210192	52.2793	52.279(R)
	70 Isopropylbenzene	105	9.995	9.992	(1.118)	906112	8.76116	8.7612
	72 Bromobenzene	156	10.257	10.254	(1.148)	140651	9.15076	9.1508
	73 1,1,2,2-Tetrachloroethane(sp)	83	10.299	10.290	(1.152)	55498	9.78657	9.7866
	74 1,2,3-Trichloropropane	110	10.318	10.315	(0.898)	14071	7.69674	7.6967

Data File: /var/chem/gcms/mz.i/Z040606.b/h2hqd1ac.d
Report Date: 07-Apr-2006 14:59

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)
76	n-Propylbenzene	91	10.415	10.412	(0.906)	1038426	8.07913	8.0791
77	2-Chlorotoluene	91	10.482	10.473	(0.912)	547542	8.03259	8.0326
78	1,3,5-Trimethylbenzene	105	10.616	10.613	(0.924)	270691	3.12996	3.1300(R)
79	4-Chlorotoluene	91	10.604	10.601	(0.923)	559843	7.73117	7.7312
80	tert-Butylbenzene	119	10.999	10.996	(0.957)	640298	8.26904	8.2690
81	1,2,4-Trimethylbenzene	105	11.060	11.057	(0.962)	641898	7.89984	7.8998
82	sec-Butylbenzene	105	11.285	11.282	(0.982)	944379	8.27377	8.2738
83	1,3-Dichlorobenzene	146	11.394	11.391	(0.992)	316980	8.52756	8.5276
84	p-Isopropyltoluene	119	11.510	11.507	(1.002)	826338	8.25075	8.2507
85	1,4-Dichlorobenzene	146	11.528	11.519	(1.003)	291343	8.42623	8.4262
86	1,2-Dichlorobenzene	146	12.082	12.079	(1.051)	233625	8.51917	8.5192
87	n-Butylbenzene	91	12.149	12.146	(1.057)	738889	8.24855	8.2485
88	1,2-Dibromo-3-chloropropane	157	13.262	13.253	(1.154)	9099	9.30876	9.3088
89	1,2,4-Trichlorobenzene	180	14.302	14.293	(1.245)	156247	9.40065	9.4006
90	Hexachlorobutadiene	225	14.533	14.530	(1.265)	143422	9.20121	9.2012
91	Napthalene	128	14.552	14.549	(1.266)	139493	8.00302	8.0030
92	1,2,3-Trichlorobenzene	180	14.819	14.816	(1.290)	109857	10.0336	10.034

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

Data File: /var/chem/gcms/mz.i/Z040606.b/h2hqd1ac.d
Report Date: 07-Apr-2006 14:59

STL Knoxville

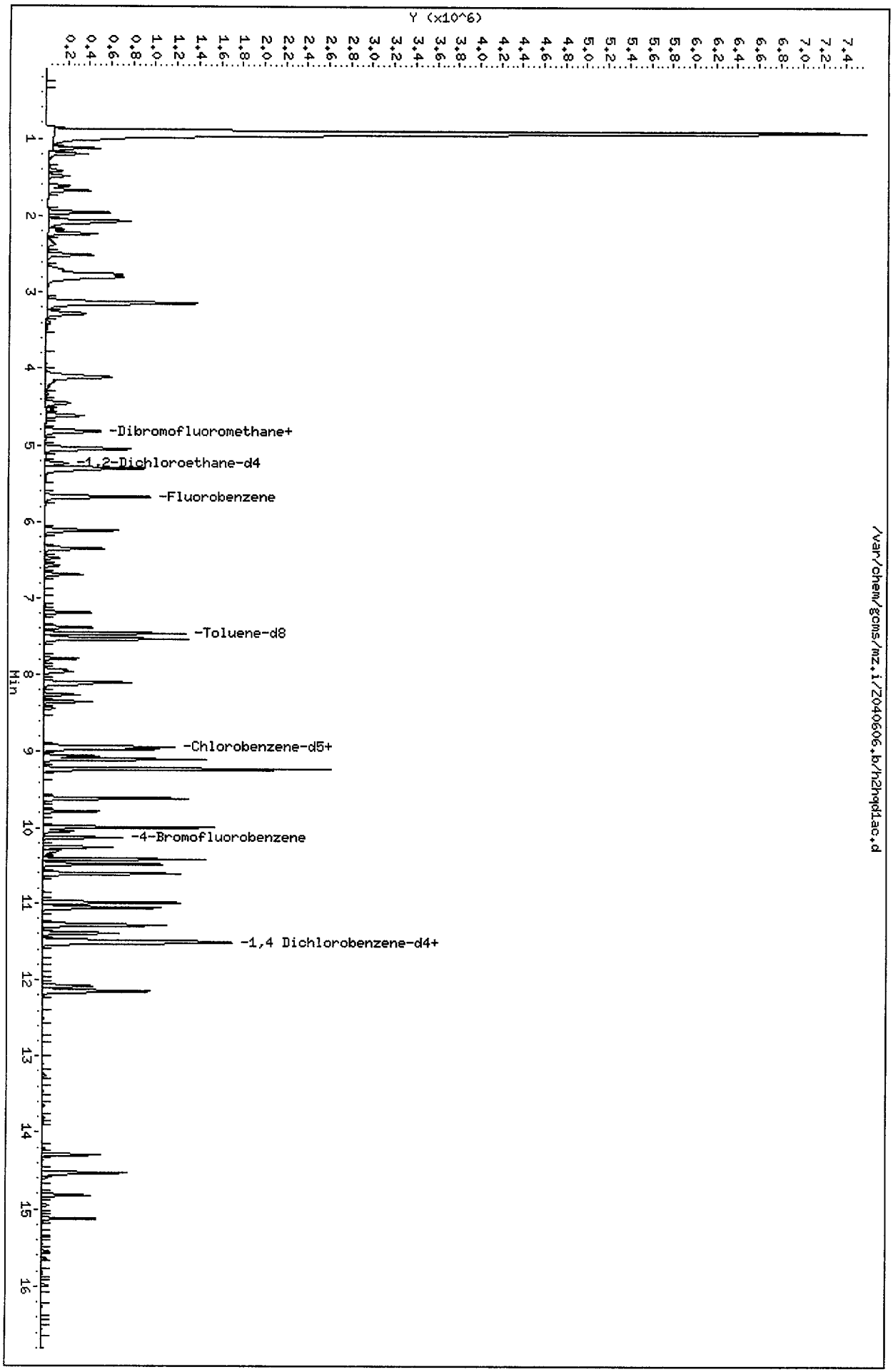
INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: mz.i
Lab File ID: h2hqd1ac.d
Lab Smp Id: H2HQD1AC
Analysis Type: VOA
Quant Type: ISTD
Operator: 063605
Calibration Date: 06-APR-2006
Calibration Time: 13:58
Client Smp ID: G-2905-R1-MAKE-UP W
Level: LOW
Sample Type: WATER
Method File: /var/chem/gcms/mz.i/Z040606.b/8260B_LM.m
Misc Info: Z040606,8260B,focus.sub

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	938680	469340	1877360	886232	-5.59
2 Chlorobenzene-d5	169233	84616	338466	164582	-2.75
3 1,4 Dichlorobenze	201373	100686	402746	212349	5.45

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	5.67	5.17	6.17	5.68	0.16
2 Chlorobenzene-d5	8.93	8.43	9.43	8.94	0.03
3 1,4 Dichlorobenze	11.49	10.99	11.99	11.49	0.03

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


Data File: /var/chem/gcms/mz.i/Z040606.b/h2hqd1ac.d
Date : 07-APR-2006 00:34
Client ID: G-2905-R1-MAKE-UP W
Sample Info: H2HQD1AC,1,3,MS
Purge Volume: 25.0
Column phase: J+W 624
Instrument: mz.i
Operator: 063005
Column diameter: 0.18
/var/chem/gcms/mz.i/Z040606.b/h2hqd1ac.d
Y (x10^6)
Min
-Dibromofluoromethane+
-1,2-Dichloroethane-d4
-Fluorobenzene
-Toluene-d8
-Chlorobenzene-d5+
-4-Bromofluorobenzene
-1,4 Dichlorobenzene-d4+

Data File: /var/chem/gcms/mz.i/Z040606.b/h2hqd1ad.d
Report Date: 07-Apr-2006 14:59

STL Knoxville

Volatile Organics by GC/MS

Data file : /var/chem/gcms/mz.i/Z040606.b/h2hqd1ad.d
Lab Smp Id: H2HQD1AD Client Smp ID: G-2905-R1-MAKE-UP W
Inj Date : 07-APR-2006 00:58
Operator : 063605 Inst ID: mz.i
Smp Info : H2HQD1AD,1,3,,MSD
Misc Info : Z040606,8260B,focus.sub
Comment : Volatile Organics by GC/MS
Method : /var/chem/gcms/mz.i/Z040606.b/8260B_LM.m
Meth Date : 07-Apr-2006 14:56 tillerm Quant Type: ISTD
Cal Date : 24-MAR-2006 13:51 Cal File: icvzc248.d
Als bottle: 12 QC Sample: MSD
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: focus.sub
Target Version: 3.50
Processing Host: qmidhp01

Concentration Formula: Amt * DF * Uf*Vt/(Vo*1000) * CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Uf	1.00000	Unit Correction factor
Vt	25000.00000	Sample Volume Purged
Vo	25.00000	Sample Volume Used

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
*	1 Fluorobenzene	96	5.672	5.667	(1.000)	948073	10.0000	
*	2 Chlorobenzene-d5	119	8.939	8.934	(1.000)	171398	10.0000	
*	3 1,4 Dichlorobenzene-d4	152	11.494	11.489	(1.000)	213949	10.0000	
$	5 1,2-Dichloroethane-d4	65	5.240	5.229	(0.924)	143388	10.9150	10.915
$	4 Dibromofluoromethane	113	4.833	4.827	(0.852)	168844	11.1143	11.114
$	6 Toluene-d8	98	7.461	7.461	(0.835)	764501	10.1514	10.151
$	7 4-Bromofluorobenzene	95	10.125	10.120	(0.881)	199092	9.22715	9.2271
	10 Dichlorodifluoromethane	85	1.012	1.013	(0.178)	214780	9.28088	9.2809
	11 Chloromethane (spcc)	50	1.128	1.123	(0.199)	585441	10.4580	10.458
	12 Vinyl Chloride (ccc)	62	1.195	1.195	(0.211)	389806	10.4391	10.439
	15 Bromomethane	94	1.414	1.408	(0.249)	109883	11.6988	11.699
	16 Chloroethane	64	1.487	1.481	(0.262)	181971	10.2916	10.292
	18 Trichlorofluoromethane	101	1.669	1.670	(0.294)	311089	10.7354	10.735
	20 1,1-Dichloroethene (ccc)	96	2.065	2.065	(0.364)	210814	10.2310	10.231

Data File: /var/chem/gcms/mz.i/Z040606.b/h2hqd1ad.d
Report Date: 07-Apr-2006 14:59

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	CONCENTRATIONS FINAL (ug/L)
	==========	====	==	======	======	========	=======	=======
21	*Freon 113	151	2.089	2.084	(0.368)	162468	10.1280	10.128
22	Acetone	43	2.132	2.126	(0.376)	88714	38.6491	38.649
23	*Iodomethane	142	2.180	2.181	(0.384)	214745	9.21947	9.2195
24	Carbon Disulfide	76	2.235	2.236	(0.394)	668776	9.19473	9.1947
27	Methylene Chloride	84	2.509	2.510	(0.442)	135854	8.56800	8.5680
29	*Acrylonitrile	53	2.764	2.759	(0.487)	719467	203.223	203.22
30	trans-1,2-Dichloroethene	96	2.795	2.795	(0.493)	232584	8.94160	8.9416
33	1,1-Dichloroethane (spcc)	63	3.281	3.276	(0.578)	562693	9.35877	9.3588
34	*Vinyl Acetate	86	3.403	3.404	(0.600)	9437	7.46654	7.4665
35	2,2-Dichloropropane	77	4.103	4.091	(0.723)	244106	7.99093	7.9909
36	cis 1,2-Dichloroethene	96	4.121	4.116	(0.726)	216339	9.01042	9.0104
M 8	1,2-Dichloroethene (total)	96				448924	17.9520	17.952
37	2-Butanone	43	4.182	4.170	(0.737)	147664	41.1054	41.105
38	Bromochloromethane	128	4.456	4.450	(0.785)	64624	9.78853	9.7885
39	*THF	42	4.535	4.535	(0.799)	87612	38.9483	38.948
40	Chloroform (ccc)	83	4.620	4.614	(0.814)	330162	9.63826	9.6383
41	1,1,1-Trichloroethane	97	4.821	4.815	(0.850)	293531	9.68133	9.6813
42	Carbon Tetrachloride	117	5.040	5.034	(0.888)	221437	9.08631	9.0863
43	1,1-Dichloropropene	75	5.052	5.046	(0.891)	292395	8.99992	8.9999
44	Benzene	78	5.301	5.296	(0.935)	800385	8.56075	8.5608
45	1,2-Dichloroethane	62	5.332	5.326	(0.940)	195810	9.89034	9.8903
46	Trichloroethene	130	6.116	6.111	(1.078)	246328	9.36618	9.3662
47	1,2-Dichloropropane (ccc)	63	6.354	6.342	(1.120)	245728	9.61949	9.6195
49	Dibromomethane	93	6.475	6.476	(1.142)	48832	9.17978	9.1798
50	Bromodichloromethane	83	6.694	6.689	(1.180)	195423	11.7514	11.751
52	cis-1,3-Dichloropropene	75	7.187	7.182	(1.267)	190961	9.20649	9.2065
53	4-Methyl-2-pentanone	43	7.382	7.376	(1.301)	351953	42.5100	42.510
54	Toluene (ccc)	91	7.534	7.528	(0.843)	882985	9.05218	9.0522
55	trans-1,3-Dichloropropene	75	7.789	7.784	(0.871)	121969	8.44860	8.4486
57	1,1,2-Trichloroethane	97	7.966	7.960	(0.891)	75838	9.57915	9.5791
58	Tetrachloroethene	164	8.100	8.094	(0.906)	191407	9.46046	9.4605
59	1,3-Dichloropropane	76	8.124	8.125	(0.909)	127247	9.16957	9.1696
60	2-Hexanone	43	8.258	8.252	(0.924)	228896	43.1554	43.155
61	Chlorodibromomethane	129	8.355	8.350	(0.935)	209617	23.9951	23.995(R)
62	1,2-Dibromoethane	107	8.440	8.441	(0.944)	69887	9.85744	9.8574
63	Chlorobenzene (spcc)	112	8.963	8.958	(1.003)	508270	9.33576	9.3358
65	Ethylbenzene (ccc)	106	9.097	9.098	(1.018)	326066	9.29490	9.2949
64	1,1,1,2-Tetrachloroethane	131	9.061	9.055	(1.014)	127621	9.32952	9.3295
66	m&p-Xylene	106	9.225	9.220	(1.032)	785119	18.5130	18.513
67	o-Xylene	106	9.614	9.609	(1.076)	356912	9.52845	9.5284
M 9	Xylene (total)	106				1142031	28.0415	28.041
68	Styrene	104	9.614	9.627	(1.076)	17307	0.32911	0.32910(R)
69	Bromoform (spcc)	173	9.785	9.779	(1.095)	246739	54.7270	54.727(R)
70	Isopropylbenzene	105	9.992	9.992	(1.118)	985461	9.14943	9.1494
72	Bromobenzene	156	10.259	10.254	(1.148)	152270	9.51272	9.5127
73	1,1,2,2-Tetrachloroethane(sp)	83	10.296	10.290	(1.152)	57003	9.65223	9.6522
74	1,2,3-Trichloropropane	110	10.320	10.315	(0.898)	15365	8.34165	8.3416

Data File: /var/chem/gcms/mz.i/Z040606.b/h2hqd1ad.d
Report Date: 07-Apr-2006 14:59

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/L)	FINAL (ug/L)
76 n-Propylbenzene	91	10.411	10.412	(0.906)	1136600	8.77682	8.7768
77 2-Chlorotoluene	91	10.478	10.473	(0.912)	604294	8.79889	8.7989
78 1,3,5-Trimethylbenzene	105	10.618	10.613	(0.924)	528870	6.06952	6.0695(R)
79 4-Chlorotoluene	91	10.606	10.601	(0.923)	644312	8.83112	8.8311
80 tert-Butylbenzene	119	10.995	10.996	(0.957)	699138	8.96141	8.9614
81 1,2,4-Trimethylbenzene	105	11.062	11.057	(0.962)	723486	8.83737	8.8374
82 sec-Butylbenzene	105	11.287	11.282	(0.982)	997864	8.67699	8.6770
83 1,3-Dichlorobenzene	146	11.391	11.391	(0.991)	343684	9.17684	9.1768
84 p-Isopropyltoluene	119	11.506	11.507	(1.001)	898357	8.90277	8.9028
85 1,4-Dichlorobenzene	146	11.525	11.519	(1.003)	325018	9.32989	9.3299
86 1,2-Dichlorobenzene	146	12.084	12.079	(1.051)	253083	9.15971	9.1597
87 n-Butylbenzene	91	12.151	12.146	(1.057)	786571	8.71520	8.7152
88 1,2-Dibromo-3-chloropropane	157	13.264	13.253	(1.154)	10456	10.5090	10.509
89 1,2,4-Trichlorobenzene	180	14.299	14.293	(1.244)	170136	10.1597	10.160
90 Hexachlorobutadiene	225	14.530	14.530	(1.264)	151745	9.66242	9.6624
91 Napthalene	128	14.554	14.549	(1.266)	169672	9.66169	9.6617
92 1,2,3-Trichlorobenzene	180	14.822	14.816	(1.290)	120998	10.9685	10.968

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

Data File: /var/chem/gcms/mz.i/Z040606.b/h2hqd1ad.d
Report Date: 07-Apr-2006 14:59

STL Knoxville

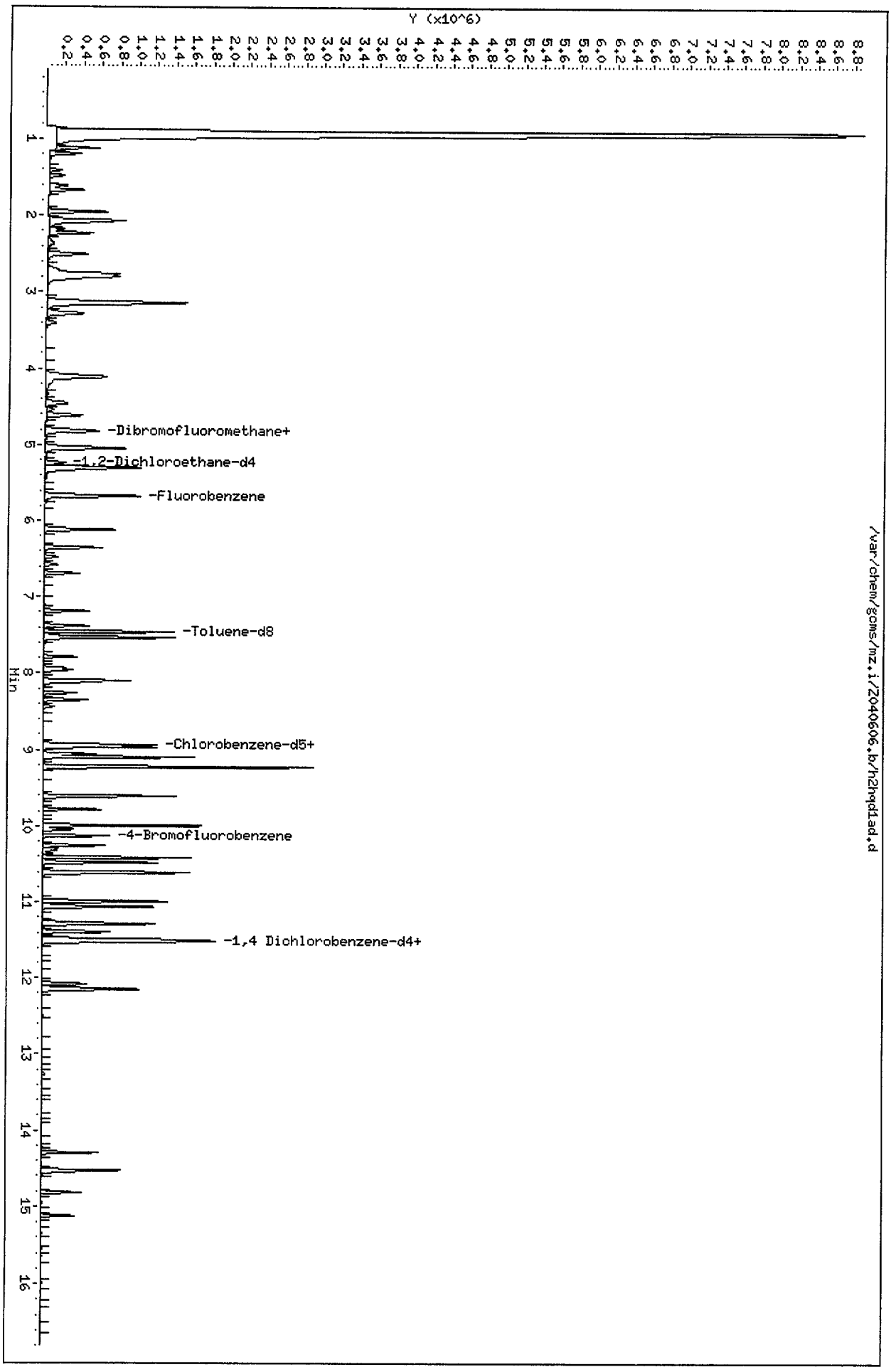
INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: mz.i
Lab File ID: h2hqd1ad.d
Lab Smp Id: H2HQD1AD
Analysis Type: VOA
Quant Type: ISTD
Operator: 063605
Calibration Date: 06-APR-2006
Calibration Time: 13:58
Client Smp ID: G-2905-R1-MAKE-UP W
Level: LOW
Sample Type: WATER
Method File: /var/chem/gcms/mz.i/Z040606.b/8260B_LM.m
Misc Info: Z040606,8260B,focus.sub

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	938680	469340	1877360	948073	1.00
2 Chlorobenzene-d5	169233	84616	338466	171398	1.28
3 1,4 Dichlorobenze	201373	100686	402746	213949	6.25

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Fluorobenzene	5.67	5.17	6.17	5.67	0.10
2 Chlorobenzene-d5	8.93	8.43	9.43	8.94	0.06
3 1,4 Dichlorobenze	11.49	10.99	11.99	11.49	0.05

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


Data File: /var/chem/gcms/mz.i/Z040606.b/h2hqd1ad.d
Date : 07-APR-2006 00:58
Client ID: G-2905-R1-MAKE-UP W
Sample Info: H2HQD1AD,1,3,,MSD
Purge Volume: 25.0
Column phase: J+W 624
Instrument: mz.i
Operator: 063605
Column diameter: 0.18
Y (x10^6)
-Dibromofluoromethane+
-1,2-Dichloroethane-d4
-Fluorobenzene
-Toluene-d8
-Chlorobenzene-d5+
-4-Bromofluorobenzene
-1,4 Dichlorobenzene-d4+
Min
/var/chem/gcms/mz.i/Z040606.b/h2hqd1ad.d

Miscellaneous Data

STL Volatile GC/MS Data Review / Narrative Checklist LOT/Project # H6003020S

Method: 8260B - KNOX-MS-0015, Rev. 8 Page 1 of 2

Instrument:	MK	MZ				
Scanned File Names:	K020306I	Z032406I				
	K040406	Z040506				
		Z040606				

Review Items A. Tune / Calibration	N/A	Yes	No	Why is data reportable?	2nd √
1. Were all samples injected within 12 hr of BFB?		✓			✓
2. Has a Continuing Calibration Checklist been completed for each analytical batch?		✓			✓
3. Was the correct ICAL used for quantitation?		✓			✓
B. Client Sample and QC Sample Results					
1. Were all special project requirements met?		✓			✓
2. Were prep/dilution factors & header information verified?		✓			✓
3. Was date/time of analysis verified between analysis header and logbook as correct?		✓			✓
4. Were the analytes that were not automatically identified in the CCAL searched for manually in the samples?		✓			
5. Sample analyses done within preparation and analytical holding time (HT)? *If no, list samples:* _____		✓		□ *[ht1] HT expired upon receipt.* □ *[ht2] Client requested analysis after HT expired.** □**Reanalysis done after HT expired. See [sur4].**	✓
6. Was pH ≤2 for all samples? *If no, list samples:* #8, #3, 4, 11, 12, 13, 5,			✓	□ *[pH] pH >2. Sample analyzed within 14 days.*	✓
7. Are surrogates and internal standards within QC limits? *If no, list samples and reason (e.g.,* **sur1***):*			✓	□ [sur1] MS/MSD surr.%R demonstrated same effect. □ [sur2] Reanalysis demonstrated same effect. □ **[sur3] Not enough sample to reanalyze.** □ **[sur4] Reanalysis done outside HT. Rerun shows original %R were wrong; both sets data reported.** □ **[sur5] At client's request, data was flagged as estimated & released without further investigation.*** □ [sur6] Dilution showed acceptable %R. □ [sur7] Obvious matrix interference. □ **[sur12] Surr.%R high and all targets ND.** □ **[sur13] Surr.%R low, sample consumed.** □ **[sur14] Surr.%R high, sample consumed.** □ **[sur15] dbfm out, pH ≥10.** □ **[is1] Per client, reanalysis was not performed. *** □ [is2] Reanalysis confirmed a matrix effect. □ [is3] Reanalysis at dilution was acceptable. □ [is4] MS/MSD IS %R demonstrated same effect. **8260B ONLY ↓** □ [isb1] Sample bracketed by acceptable runs. □ [isb2] IS and associated surr. %R out, but sample bracketed by acceptable runs. □ [isb3] IS and unassociated surr. %R out. Reanalysis confirmed a matrix effect.	✓
8. Are internal standards <0.5min of last CCAL?		✓			✓
9. Were positive hits evaluated using qualitative identification criteria and technical judgement?		✓			✓
10. Are positive results within calibration range? If no, list samples: _____		✓		□ **[dil5] At client's request, sample was analyzed with minimum dilution even though some analytes were outside of calibration range.***	✓
11. For initial analysis that's a dilution, was the largest analyte >20% of calibration range?		✓		□ [elev1] Elevated RL for (ANALYTE) due to sample matrix interferences. □ [elev2] Elevated RL for (ANALYTE) due to interfering analyte. □ [elev3] Elevated RLs for all analytes due to difficult sample matrix. □ [elev4] Diluted based on screening results. □ [elev5] Elevated RLs for all analytes due to presence of non-target compounds. o [encore1] Elevated RLs due to limited soil volume.	✓

7. Are surrogates and internal standards within QC limits?

Sample	Reason	Sample	Reason
	G-2889-R1-Spent Act Cor		sur1/sur7
	G-2887-R2-Spent Act C		↓
	G-3070-R3-Spent Act C		✓
	G-2901-R1-Caustic Feed		sur1

11. For initial analysis that's a dilution, was the largest analyte >20% of calibration range?

List diluted samples and reason (e.g., elev1):

Sample	Reason	Sample	Reason
		#1, 6, 10	elev4

* Such action must be taken in consultation with client.

STL Volatile GC/MS Data Review / Narrative Checklist **LOT/Project #** H6D030205
Method: 8260B - KNOX-MS-0015, Rev. 8 **Page 2 of 2**

B. Client Sample and QC Sample Results	N/A	Yes	No	Why is data reportable?	2nd √
12. For secondary diluted analyses to bring compounds within calibration range, was the largest analyte targeted to be above 50% of calibration range? List diluted samples and reason (e.g., dil1): Sample / Reason / Sample / Reason	✓			□ [dil1] Conc. of (ANALYTE) > calibration range. RLs adjusted accordingly. □ [dil2] Conc. of several compounds > calibration range. RLs adjusted accordingly. □ [dil3] Conc. of (ANALYTE) > calibration range. Both analyses reported to provide lowest RLs. □ [dil4] Conc. of several compounds > calibration range. Both analyses reported to provide lowest RLs.	✓
13. If manual integrations were performed, are they clearly identified, initialed, dated and reason given?	✓			Reasons: 1)Corrected split peak; 2)Unresolved peak; 3)tailing; 4)RT shift; 5)wrong peak selected; 6)other	✓
14. Have alternate hits and manual integrations been verified as correct?	✓				✓
C. Preparation/Matrix QC					
1. LCS done per prep batch and all analytes within laboratory established QC limits? *If no, list LCS ID:*		✓		**□ [lcs2] Insufficient sample for reanalysis.*** **□ [lcs3] LCS %R high and all analyte(s) were <RL in associated samples.** **□ [lcs4] LCS % out, samples consumed.** **□ [lcs RPD] RPD out, BUT % R OK.**	✓
2. Method blank done per prep batch and method blank or instrument blank analyzed with each sequence?		✓			✓
3. Method blank surrogate recoveries within QC limits?		✓		**□ [mb1] All sample surrogates OK and there is no analyte >RL in samples associated with blank.*** **□ [mb7] Surr. %R out, samples consumed.**	✓
4. Are all analytes present in the method blank < RL? *If no, list blank ID:*		✓		□ [mb2] Common lab contaminant <5x RL.* **□ [mb3] No analyte > RL in associated samples.*** **□ [mb4] Sample results > 20x higher than blank.** **□ [mb5] Insufficient sample for reanalysis *** **□ [mb8] Samples consumed.**	✓
5. MS/MSD done per batch? Batch #		✓		□ [lcsd] Insufficient sample. LCS/LCSD analyzed.	✓
6. If MS/MSD was done on this client's sample or for reported batch QC, were MS/MSD recoveries & RPDs within laboratory generated QC limits? *If no, list MS/MSD ID:* H2HN3AC/AD ms1/ms2 H2HPA1AC/AD ms1 H2HP3AC/AD ms1			✓	□ [ms1] LCS acceptable - sample matrix effects. □ [ms2] LCS acceptable. High native analyte concentration relative to spike level. □ [rpd] LCS acceptable. RPD out due to lack of sample homogeneity.	✓
7. Were MS run #'s assigned correctly?		✓			✓
D. Other					
1. Are all nonconformances documented appropriately and copy included with deliverable?	✓				✓
2. Are the correct scanned file names listed at the top of the data review checklist?		✓			✓
3. Were the standards scanned properly with runlogs?		✓			✓
4. Final report acceptable? (Results correct, RLs calculated correctly, units correct, surrogate %R correct, appropriate flags used, dilution factor correct, and extraction/ analysis dates correct.)		✓			✓
5. Was a narrative prepared and all deviations noted?		✓			✓

Analyst: MT	Date: 4/11/06	2nd Level Reviewer:	Date: 4/20/06
Comments:		Comments:	

* Such action must be taken in consultation with client.

RQC058

Severn Trent Laboratories, Inc.
EXTRACTION BENCH WORKSHEET

Run Date: 4/04/06
Time: 17:30:26

LEV 1	LEV 2		LEV 1	LEV 2	
_	_	Blank	_	_	Weights/Volumes
_	_	Check	_	_	Spike & Surrogate Worksheet
_	_	MS/MSD	_	_	Vial contains correct volume
			_	_	Labels, greenbars, worksheets
			_	_	computer batch: correct & all match
			_	_	Anomalies to Extraction Method

_ Expanded Deliverable
_ COC Completed
_ Bench Sheet Copied
_ Package Submitted to AnalyticalGroup
_ Bench Sheet Copied per COC

Extractionist: _____
_____
Concentrationist: _____
_____

Reviewer/Date: _____ / 0/00/00

QC BATCH: 6094386

PREP DATE: 4/04/06 14:00
COMP DATE: 4/04/06 16:00

Volatile Organics, GC/MS (8260B)
PURGE AND TRAP - Lab MEOH Ext. (Solids or Wastes)

EXTR EXPR	ANL DUE	LOT#,MSRUN#/ WORK ORDER	TEST FLGS	EXT	MTH	MATRIX	INIT/FIN WT/VOL	INIT	PH"S ADJ1	ADJ2	SOLVENTS EXTRACTION	VOL	EXCHANGE	VOL	SPIKE STANDARD/ SURROGATE ID
3/30/06	4/24/06	H6D030205-001 **H2HN3-1-AA**	D	4B	QK	SOLID	**5.01g** 5.00mL	NA	NA	NA		.0		.0	5.0UL V130A 2500PPM
COMMENTS:															
3/30/06	4/24/06	H6D030205-001 **H2HN3-1-ACS**	D	4B	QK	SOLID	**5.02g** 5.00mL	NA	NA	NA		.0		.0	125UL VOA6498 100PPM 5.0UL V130A 2500PPM
COMMENTS:															
3/30/06	4/24/06	H6D030205-001 **H2HN3-1-ADD**	D	4B	QK	SOLID	**5.01g** 5.00mL	NA	NA	NA		.0		.0	125UL VOA6498 100PPM 5.0UL V130A 2500PPM
COMMENTS:															
3/31/06	4/24/06	H6D030205-006 **H2HQR-1-AA**	D	4B	QK	SOLID	**5.07g** 5.00mL	NA	NA	NA		.0		.0	5.0UL V130A 2500PPM
COMMENTS:															
4/01/06	4/24/06	H6D030205-010 **H2HQ4-1-AA**	D	4B	QK	SOLID	**4.99g** 5.00mL	NA	NA	NA		.0		.0	5.0UL V130A 2500PPM
COMMENTS:															
3/30/06	0/00/00	H6D040000-386 **H2KWV-1-AA**B		4B	QK	SOLID	**5.00g** 5.00mL	NA	NA	NA		.0		.0	5.0UL V130A 2500PPM
COMMENTS:															
3/30/06	0/00/00	H6D040000-386 **H2KWV-1-ACC**		4B	QK	SOLID	**5.0g** 5.00mL	NA	NA	NA		.0		.0	125UL VOA6498 100PPM 5.0UL V130A 2500PPM
COMMENTS:															

R = RUSH C = CLP
E = EPA 600 D = EXP.DEL)

NUMBER OF WORK ORDERS IN BATCH: 7

RQC058

Severn Trent Laboratories, Inc.
EXTRACTION BENCH WORKSHEET

Run Date: 4/05/06
Time: 11:59:17

LEV 1	LEV 2		LEV 1	LEV 2	
_	_	Blank	_	_	Weights/Volumes
_	_	Check	_	_	Spike & Surrogate Worksheet
_	_	MS/MSD	_	_	Vial contains correct volume
			_	_	Labels, greenbars, worksheets
			_	_	computer batch: correct & all match
			_	_	Anomalies to Extraction Method

_ Expanded Deliverable
_ COC Completed
_ Bench Sheet Copied
_ Package Submitted to AnalyticalGroup
_ Bench Sheet Copied per COC

Extractionist: _____
_____

Concentrationist: _____
_____

Reviewer/Date: _____ / 0/00/00

QC BATCH: 6095253

PREP DATE: 4/05/06 12:00
COMP DATE: 4/05/06 24:00

Volatile Organics, GC/MS (8260B)
PURGE AND TRAP - 25 mL purge (Waters)

EXTR EXPR	ANL DUE	LOT#,MSRUN#/ WORK ORDER	TEST FLGS	EXT	MTH	MATRIX	INIT/FIN WT/VOL	INIT	PH"S ADJ1	ADJ2	SOLVENTS EXTRACTION	VOL	EXCHANGE	VOL	SPIKE STANDARD/ SURROGATE ID
0/00/00	4/18/06	H6C150102-001 **H0857-2-AA**		25	QK	WATER	**25.0mL** 25.00mL	NA	NA	NA		.0		.0	
COMMENTS:															
0/00/00	4/18/06	H6C150102-002 **H0858-2-AA**		25	QK	WATER	**25.0mL** 25.00mL	NA	NA	NA		.0		.0	
COMMENTS:															
0/00/00	4/13/06	H6D030104-002 6095149 **H2GKV-1-AA**	D	25	QK	WATER	**25.0mL** 25.00mL	NA	NA	NA		.0		.0	
COMMENTS:															
0/00/00	4/13/06	H6D030104-005 6095149 **H2GK2-1-AA**	D	25	QK	WATER	**25.0mL** 25.00mL	NA	NA	NA		.0		.0	
COMMENTS:															
0/00/00	4/13/06	H6D030104-018 6095149 **H2GMA-1-AA**	D	25	QK	WATER	**25.0mL** 25.00mL	NA	NA	NA		.0		.0	
COMMENTS:															
0/00/00	4/13/06	H6D030104-019 6095149 **H2GMD-1-AA**	D	25	QK	WATER	**25.0mL** 25.00mL	NA	NA	NA		.0		.0	
COMMENTS:															
0/00/00	4/24/06	H6D030169-009 6095149 **H2G9H-1-AA**	D	25	QK	WATER	**25.0mL** 25.00mL	NA	NA	NA		.0		.0	
COMMENTS:															

RQC058

Severn Trent Laboratories, Inc.
EXTRACTION BENCH WORKSHEET

Run Date: 4/05/06
Time: 11:59:17

QC BATCH: 6095253

PREP DATE: 4/05/06 12:00
COMP DATE: 4/05/06 24:00

EXTR EXPR	ANL DUE	LOT#,MSRUN#/ WORK ORDER	TEST FLGS	EXT	MTH	MATRIX	INIT/FIN WT/VOL	PH"S INIT	PH"S ADJ1	PH"S ADJ2	SOLVENTS EXTRACTION VOL	SOLVENTS EXCHANGE VOL	SPIKE STANDARD/ SURROGATE ID
0/00/00	4/24/06	H6D030169-009 6095149 **H2G9H-1-ACX**	D	25	QK	WATER	**25.0mL** 25.00mL	NA	NA	NA	.0	.0	
COMMENTS:													
0/00/00	4/24/06	H6D030169-020 6095149 **H2HAD-1-AA**	D	25	QK	WATER	**25.0mL** 25.00mL	NA	NA	NA	.0	.0	
COMMENTS:													
0/00/00	4/24/06	H6D030169-020 6095149 **H2HAD-1-ACX**	D	25	QK	WATER	**25.0mL** 25.00mL	NA	NA	NA	.0	.0	
COMMENTS:													
0/00/00	4/24/06	H6D030169-031 6095149 **H2HCR-1-AA**	D	25	QK	WATER	**25.0mL** 25.00mL	NA	NA	NA	.0	.0	
COMMENTS:													
0/00/00	4/24/06	H6D030169-031 6095149 **H2HCR-1-ACX**	D	25	QK	WATER	**25.0mL** 25.00mL	NA	NA	NA	.0	.0	
COMMENTS:													
0/00/00	4/24/06	H6D030169-036 6095149 **H2HC1-1-AA**	D	25	QK	WATER	**25.0mL** 25.00mL	NA	NA	NA	.0	.0	
COMMENTS:													
0/00/00	4/24/06	H6D030205-002 6095149 **H2HPA-1-AA**	D	25	QK	WATER	**25.0mL** 25.00mL	NA	NA	NA	.0	.0	
COMMENTS:													
0/00/00	4/24/06	H6D030205-002 6095149 **H2HPA-1-ACS**	D	25	QK	WATER	**25.0mL** 25.00mL	NA	NA	NA	.0	.0	
COMMENTS:													
0/00/00	4/24/06	H6D030205-002 6095149 **H2HPA-1-ADD**	D	25	QK	WATER	**25.0mL** 25.00mL	NA	NA	NA	.0	.0	
COMMENTS:													
0/00/00	4/24/06	H6D030205-007 **H2HQT-1-AA**	D	25	QK	WATER	**25.0mL** 25.00mL	NA	NA	NA	.0	.0	
COMMENTS:													

RQC058

Severn Trent Laboratories, Inc.
EXTRACTION BENCH WORKSHEET

Run Date: 4/05/06
Time: 11:59:17

QC BATCH: 6095253

PREP DATE: 4/05/06 12:00
COMP DATE: 4/05/06 24:00

EXTR EXPR	ANL DUE	LOT#,MSRUN#/ WORK ORDER	TEST FLGS	EXT	MTH	MATRIX	INIT/FIN WT/VOL	INIT	PH"S ADJ1	ADJ2	SOLVENTS EXTRACTION VOL	SOLVENTS EXCHANGE VOL	SPIKE STANDARD/ SURROGATE ID
0/00/00	4/24/06	H6D030205-008 **H2HQW-1-AA**	D	25	QK	WATER	**25.0mL** 25.00mL	NA	NA	NA	.0	.0	
COMMENTS:													
0/00/00	4/24/06	H6D030205-009 **H2HQ0-1-AA**	D	25	QK	WATER	**25.0mL** 25.00mL	NA	NA	NA	.0	.0	
COMMENTS:													
0/00/00	4/24/06	H6D030205-011 **H2HRA-1-AA**	D	25	QK	WATER	**25.0mL** 25.00mL	NA	NA	NA	.0	.0	
COMMENTS:													
0/00/00	4/24/06	H6D030205-012 **H2HRF-1-AA**	D	25	QK	WATER	**25.0mL** 25.00mL	NA	NA	NA	.0	.0	
COMMENTS:													
0/00/00	4/24/06	H6D030205-013 **H2HRH-1-AA**	D	25	QK	WATER	**25.0mL** 25.00mL	NA	NA	NA	.0	.0	
COMMENTS:													
0/00/00	0/00/00	H6D050000-253 **H2MQQ-1-AA**B		25	QK	WATER	**25.0mL** 25.00mL	NA	NA	NA	.0	.0	
COMMENTS:													
0/00/00	0/00/00	H6D050000-253 **H2MQQ-1-AC**C		25	QK	WATER	**25.0mL** 25.00mL	NA	NA	NA	.0	.0	
COMMENTS:													

R = RUSH C = CLP
E = EPA 600 D = EXP.DEL)
M = CLIENT REQ MS/MSD

NUMBER OF WORK ORDERS IN BATCH: 24

RQC058

Severn Trent Laboratories, Inc.
EXTRACTION BENCH WORKSHEET

Run Date: 4/06/06
Time: 11:48:39

LEV 1	LEV 2		LEV 1	LEV 2	
_	_	Blank	_	_	Weights/Volumes
_	_	Check	_	_	Spike & Surrogate Worksheet
_	_	MS/MSD	_	_	Vial contains correct volume
			_	_	Labels, greenbars, worksheets
			_	_	computer batch: correct & all match
			_	_	Anomalies to Extraction Method

_ Expanded Deliverable
_ COC Completed
_ Bench Sheet Copied
_ Package Submitted to AnalyticalGroup
_ Bench Sheet Copied per COC

Extractionist: _____
_____
Concentrationist: _____
_____

Reviewer/Date: _____ / 0/00/00

QC BATCH: 6096330

PREP DATE: 4/06/06 12:00
COMP DATE: 4/06/06 24:00

Volatile Organics, GC/MS (8260B)
PURGE AND TRAP - 25 mL purge (Waters)

EXTR EXPR	ANL DUE	LOT#,MSRUN#/ WORK ORDER	TEST FLGS	EXT	MTH	MATRIX	INIT/FIN WT/VOL	PH"S INIT	PH"S ADJ1	PH"S ADJ2	SOLVENTS EXTRACTION	SOLVENTS VOL	SOLVENTS EXCHANGE	SOLVENTS VOL	SPIKE STANDARD/ SURROGATE ID
0/00/00	4/25/06	H6C220101-001 **H1PCR-1-AA**		25	QK	WATER	**25.0mL** 25.00mL	NA	NA	NA		.0		.0	
COMMENTS:															
0/00/00	4/25/06	H6C220101-002 **H1PCT-1-AA**		25	QK	WATER	**25.0mL** 25.00mL	NA	NA	NA		.0		.0	
COMMENTS:															
0/00/00	4/13/06	H6D030104-005 6096189 **H2GK2-2-AA**	D	25	QK	WATER	**25.0mL** 25.00mL	NA	NA	NA		.0		.0	
COMMENTS:															
0/00/00	4/24/06	H6D030205-003 6096189 **H2HPW-1-AA**	D	25	QK	WATER	**25.0mL** 25.00mL	NA	NA	NA		.0		.0	
COMMENTS:															
0/00/00	4/24/06	H6D030205-003 6096189 **H2HPW-1-ACS**	D	25	QK	WATER	**25.0mL** 25.00mL	NA	NA	NA		.0		.0	
COMMENTS:															
0/00/00	4/24/06	H6D030205-003 6096189 **H2HPW-1-ADD**	D	25	QK	WATER	**25.0mL** 25.00mL	NA	NA	NA		.0		.0	
COMMENTS:															
0/00/00	4/24/06	H6D030205-004 6096189 **H2HP3-1-AA**	D	25	QK	WATER	**25.0mL** 25.00mL	NA	NA	NA		.0		.0	
COMMENTS:															

RQC058

Severn Trent Laboratories, Inc.
EXTRACTION BENCH WORKSHEET

Run Date: 4/06/06
Time: 11:48:39

QC BATCH: 6096330

PREP DATE: 4/06/06 12:00
COMP DATE: 4/06/06 24:00

EXTR EXPR	ANL DUE	LOT#,MSRUN#/ WORK ORDER	TEST FLGS	EXT	MTH	MATRIX	INIT/FIN WT/VOL	PH"S INIT	PH"S ADJ1	PH"S ADJ2	SOLVENTS EXTRACTION VOL	SOLVENTS EXCHANGE VOL	SPIKE STANDARD/ SURROGATE ID
0/00/00	4/24/06	H6D030205-004 6096189 **H2HP3-1-ACS**	D	25	QK	WATER	**25.0mL** 25.00mL	NA	NA	NA	.0	.0	
COMMENTS:													
0/00/00	4/24/06	H6D030205-004 6096189 **H2HP3-1-ADD**	D	25	QK	WATER	**25.0mL** 25.00mL	NA	NA	NA	.0	.0	
COMMENTS:													
0/00/00	4/24/06	H6D030205-005 6096189 **H2HQD-1-AA**	D	25	QK	WATER	**25.0mL** 25.00mL	NA	NA	NA	.0	.0	
COMMENTS:													
0/00/00	4/24/06	H6D030205-005 6096189 **H2HQD-1-ACS**	D	25	QK	WATER	**25.0mL** 25.00mL	NA	NA	NA	.0	.0	
COMMENTS:													
0/00/00	4/24/06	H6D030205-005 6096189 **H2HQD-1-ADD**	D	25	QK	WATER	**25.0mL** 25.00mL	NA	NA	NA	.0	.0	
COMMENTS:													
0/00/00	4/12/06	H6D050118-012 **H2L4J-1-AA**	DR	25	QK	WATER	**25.0mL** 25.00mL	NA	NA	NA	.0	.0	
COMMENTS:													
0/00/00	0/00/00	H6D060000-330 **H2P78-1-AAB**		25	QK	WATER	**25.0mL** 25.00mL	NA	NA	NA	.0	.0	
COMMENTS:													
0/00/00	0/00/00	H6D060000-330 **H2P78-1-ACC**		25	QK	WATER	**25.0mL** 25.00mL	NA	NA	NA	.0	.0	
COMMENTS:													

R = RUSH C = CLP
E = EPA 600 D = EXP.DEL)
M = CLIENT REQ MS/MSD

NUMBER OF WORK ORDERS IN BATCH: 15

Sample Receipt Documentation

Request for Analysis/Chain-of-Custody – RFA/COC #012 [Process Sample Volatiles]
Focus/US Filter Westates Carbon
Comprehensive Performance Test at Parker, Arizona

STL Knoxville Lot Number: HWD030205
STL Knoxville Project Number: 142541

NOTE: After Log-In, please give the original completed RFA/COC to Patti Carswell.

Project Identification:	**Westates Carbon CPT**
STL Knoxville Project Number:	142541
STL Contact:	Ms. Patti Carswell (865) 291-3010
STL - ACS Project Manager:	Dr. William C. Anderson (865) 291-3080

Laboratory Deliverable Turnaround Requirements:	
Analytical Due Date: (Review-Released Data)	21 Days from Lab Receipt
Data Package Due Date:	21 Days from Lab Receipt
Laboratory Destination:	STL Knoxville 5815 Middlebrook Pike Knoxville, Tennessee 37921 (865) 291-3000
Courier:	Federal Express

Analytical Testing QC Requirements:
The Legend for Project-Specific Quality Control Testing is designated in the "QC" column as follows:
"MS" = Matrix Spike, "MSD" = Matrix Spike Duplicate,
"DUP" = Duplicate, and "PDS" = Post Digestion Spike

Project Deliverables:
Report analytical results on R-02 Reports and in data packages.
Include "Field Number", "Sample Type", and "Run Number" on all R-02 Reports.

Holding Time Requirements:	
Volatile Organic Compounds (VOCs)	14 Days to Analysis.

Field Sample No./ Sample Coding ID	Sample Collection Date	Project QC Require-ments	Sample Bottle/ Container	Sample Type/Analysis	Analytical Specifications
G-2889-R1-Spent Activated Carbon	3-28-06	MS/MSD	125 mL Powder Jar	**Spent Activated Carbon - Run #1** Volatiles Analysis	Prepare and analyze the sample for the target Volatiles including TICs by purge and trap & GC/MS by Method SW-8260B.
G-2893-R1-Scrubber Blowdown	3-28-06	MS/MSD	3 X 12 X 40 mL VOA Vials	**Scrubber Blowdown - Run #1** Volatiles Analysis	Prepare and analyze the sample for the target Volatiles including TICs by purge and trap & GC/MS by Method SW-8260B.
G-2897-R1-POTW Discharge	3-28-06	MS/MSD	3 X 12 X 40 mL VOA Vials	**POTW Discharge - Run #1** Volatiles Analysis	Prepare and analyze the sample for the target Volatiles including TICs by purge and trap & GC/MS by Method SW-8260B.
G-2901-R1-Caustic Feed	3-28-06	MS/MSD	3 X 40 mL VOA Vials	**Caustic Feed - Run #1** Volatiles Analysis	Prepare and analyze the sample for the target Volatiles including TICs by purge and trap & GC/MS by Method SW-8260B.
G-2905-R1-Make-Up Water	3-28-06	MS/MSD	3 X 12 X 40 mL VOA Vials	**Make-Up Water - Run #1** Volatiles Analysis	Prepare and analyze the sample for the target Volatiles including TICs by purge and trap & GC/MS by Method SW-8260B.
G-2987-R2-Spent Activated Carbon	3-29-06		125 mL Powder Jar	**Spent Activated Carbon - Run #2** Volatiles Analysis	Prepare and analyze the sample for the target Volatiles including TICs by purge and trap & GC/MS by Method SW-8260B.

Request for Analysis/Chain-of-Custody – RFA/COC #012 [Process Sample Volatiles]
Focus/US Filter Westates Carbon
Comprehensive Performance Test at Parker, Arizona

Field Sample No./ Sample Coding ID	Sample Collection Date	Project QC Require-ments	Sample Bottle/ Container	Sample Type/Analysis	Analytical Specifications
G-2991-R2-Scrubber Blowdown	3-29-06		12 X 40 mL VOA Vials	**Scrubber Blowdown - Run #2** Volatiles Analysis	Prepare and analyze the sample for the target Volatiles including TICs by purge and trap & GC/MS by Method SW-8260B.
G-2995-R2-POTW Discharge	3-29-06		12 X 40 mL VOA Vials	**POTW Discharge - Run #2** Volatiles Analysis	Prepare and analyze the sample for the target Volatiles including TICs by purge and trap & GC/MS by Method SW-8260B.
G-2999-R2-Caustic Feed	Not Sampled		40 mL VOA Vial	**Caustic Feed - Run #2** Volatiles Analysis	Prepare and analyze the sample for the target Volatiles including TICs by purge and trap & GC/MS by Method SW-8260B.
G-3003-R2-Make-Up Water	3-29-06		12 X 40 mL VOA Vials	**Make-Up Water - Run #2** Volatiles Analysis	Prepare and analyze the sample for the target Volatiles including TICs by purge and trap & GC/MS by Method SW-8260B.
G-3070-R3-Spent Activated Carbon	3-30-06		125 mL Powder Jar	**Spent Activated Carbon - Run #3** Volatiles Analysis	Prepare and analyze the sample for the target Volatiles including TICs by purge and trap & GC/MS by Method SW-8260B.
G-3074-R3-Scrubber Blowdown	3-30-06		12 X 40 mL VOA Vials	**Scrubber Blowdown - Run #3** Volatiles Analysis	Prepare and analyze the sample for the target Volatiles including TICs by purge and trap & GC/MS by Method SW-8260B.
G-3078-R3-POTW Discharge	3-30-06		12 X 40 mL VOA Vials	**POTW Discharge - Run #3** Volatiles Analysis	Prepare and analyze the sample for the target Volatiles including TICs by purge and trap & GC/MS by Method SW-8260B.
G-3082-R3-Caustic Feed	Did Not Sample		40 mL VOA Vial	**Caustic Feed - Run #3** Volatiles Analysis	Prepare and analyze the sample for the target Volatiles including TICs by purge and trap & GC/MS by Method SW-8260B.
G-2886-R3-Make-Up Water	3-30-06		12 X 40 mL VOA Vials	**Make-Up Water - Run #3** Volatiles Analysis	Prepare and analyze the sample for the target Volatiles including TICs by purge and trap & GC/MS by Method SW-8260B.

missing 1, 4, 5

Request for Analysis/Chain-of-Custody – RFA/COC #012 [Process Sample Volatiles]
Focus/US Filter Westates Carbon
Comprehensive Performance Test at Parker, Arizona

H6D030205

Sample Receipt Log and Condition of the Samples Upon Receipt:

Please fill in the following information:	Comments (Please write "NONE" if no comment applicable)
(1) Record the identities of any samples that were listed on the RFA but were not found in the sample shipment.	See Attached CUR
(2) Record the sample shipping cooler temperature of all coolers transporting samples listed on this RFA:	5.0 °C
(3) Record any apparent sample loss/breakage.	N/A
(4) Record any unidentified samples transported with this shipment of samples:	N/A
(5) Indicate if all samples were received according to the project's required specifications (i.e. no nonconformances):	See attached CUR

Custody Transfer:

	Name	Company	Date/Time
Relinquished By:		Handdelivered	
Accepted By:		STL Knoxville	4/2/06 1625
Relinquished By:			
Accepted By:			
Relinquished By:			
Accepted By:			
Relinquished By:			
Accepted By:			

Figure 7-3. Example Field Sampling Record

Westates,Carbon – Arizona, Inc. Parker, Arizona Project No. 010111

Test # 1 Run # 3 TW 3-30.06 Date & Time of Collection 3-30-06

Frequency 15 ~~minute~~ Min.

Sampler(s) Debra Foster

Sample Type (circle one): (Composite) Aliquot Grab

Sample Description (if grab sample was taken before during or after test):

Spent Carbon

Sample Source:

Feed Belt

Composite Sampling Time Log

1) 1150	2) 1205	3) 1220	4) 1235	5) 1530	6) 1545
7) 1600	8) 1615	9) 1630	10) 1646	11) 1700	12) 1715
13) 1730	14) 1745	15) 1800	16) 1815	17) 1830	18) 1845
19) 1900	20) 1915	21) ____	22) ____	23) ____	24) ____
25) ____	26) ____	27) ____	28) ____	29) ____	30) ____

Volume of each Grab ____ Total Number of Grabs ____

Final pH of Sample ____ Final Volume of Sample ____

Sample Container (circle one):

1 L Boston Round	1 L Wide-Mouth	500 mL Wide-Mouth
40 mL VOA Vial	20 mL VOA Vial	1 gallon. Amber Wheaton Jug
120 mL Wide-Mouth	2.5 L Jug	Other: ____

Comments:

Samplers Signature/Date: D Foster

Figure 7-3

Figure 7-3. Example Field Sampling Record

Westates,Carbon – Arizona, Inc. Parker, Arizona **Project No. 010111**

Test # 1 Run # 3 Date & Time of Collection 3-30-06

Frequency 30 min.

Sampler(s) Teri White

Sample Type (circle one): (Composite) Aliquot Grab

Sample Description (if grab sample was taken before during or after test):

POTW

Sample Source:

Tap

Composite Sampling Time Log

(1) 11:50	2) 12:20	(3) 15:30	4) 16:00	(5) 16:30	6) 16:58
(7) 17:30	8) 18:00	(9) 18:30	10) 19:00	11)_____	12)_____
13)_____	14)_____	15)_____	16)_____	17)_____	18)_____
19)_____	20)_____	21)_____	22)_____	23)_____	24)_____
25)_____	26)_____	27)_____	28)_____	29)_____	30)_____

Volume of each Grab _____ Total Number of Grabs _____

Final pH of Sample _____ Final Volume of Sample _____

Sample Container (circle one):

1 L Boston Round	1 L Wide-Mouth	500 mL Wide-Mouth
40 mL VOA Vial	20 mL VOA Vial	1 gallon. Amber Wheaton Jug
120 mL Wide-Mouth	2.5 L Jug	Other: _____

Comments:

Test on hold from 12:39 to 15:30

Samplers Signature/Date: Teri White 3-30-06

Figure 7-3

12:39 on hold
restart 15:30

Figure 7-3. Example Field Sampling Record

Westates,Carbon – Arizona, Inc. Parker, Arizona **Project No. 010111**

Test # 1 Run # 3 Date & Time of Collection 3-30-06

Frequency 30 min.

Sampler(s) Teri White

Sample Type (circle one): (Composite) Aliquot Grab

Sample Description (if grab sample was taken before during or after test):

Scrubber Blowdown

Sample Source:

Tap

Composite Sampling Time Log

(1) 11:58	2) 12:22	(3) 15:37	4) 16:03	(5) 16:34	6) 17:01
(7) 17:36	8) 18:03	(9) 18:35	10) 19:02	11)_____	12)_____
13)_____	14)_____	15)_____	16)_____	17)_____	18)_____
19)_____	20)_____	21)_____	22)_____	23)_____	24)_____
25)_____	26)_____	27)_____	28)_____	29)_____	30)_____

Volume of each Grab _____ Total Number of Grabs _____

Final pH of Sample _____ Final Volume of Sample _____

Sample Container (circle one):

1 L Boston Round	1 L Wide-Mouth	500 mL Wide-Mouth
40 mL VOA Vial	20 mL VOA Vial	1 gallon. Amber Wheaton Jug
120 mL Wide-Mouth	2.5 L Jug	Other: _____

Comments:

Test on hold from 12:39 to 15:30

Samplers Signature/Date: Teri A White 3-30-06

Figure 7-3

12:39 on hold restart 15:30

Figure 7-3. Example Field Sampling Record

Westates,Carbon – Arizona, Inc. Parker, Arizona **Project No. 010111**

Test # 1 Run # 3 Date & Time of Collection 3-30-06 1205

Frequency Grab

Sampler(s) Teri White

Sample Type (circle one): Composite Aliquot (Grab)

Sample Description (if grab sample was taken before during or after test):

Make-up Water

Sample Source:

Tap

Composite Sampling Time Log

1) 12:05	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)_____

Volume of each Grab _____ Total Number of Grabs _____

Final pH of Sample _____ Final Volume of Sample _____

Sample Container (circle one):

1 L Boston Round	1 L Wide-Mouth	500 mL Wide-Mouth
40 mL VOA Vial	20 mL VOA Vial	1 gallon. Amber Wheaton Jug
120 mL Wide-Mouth	2.5 L Jug	Other: _____

Comments:

_____

_____

Samplers Signature/Date: Teri White 3-30-06

Figure 7-3

Figure 7-3. Example Field Sampling Record

Westates,Carbon – Arizona, Inc. Parker, Arizona Project No. 010111

Test # 1 Run # 1 Date & Time of Collection 3-28-06

Frequency Grab

Sampler(s) Teri White

Sample Type (circle one): Composite Aliquot (Grab)

Sample Description (if grab sample was taken before during or after test):

Make-up Water

Sample Source:

Tap

Composite Sampling Time Log

1) 2:28	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)

Volume of each Grab _____ Total Number of Grabs _____

Final pH of Sample _____ Final Volume of Sample _____

Sample Container (circle one):

(1 L Boston Round)	1 L Wide-Mouth	500 mL Wide-Mouth
(40 mL VOA Vial)	20 mL VOA Vial	1 gallon. Amber Wheaton Jug
120 mL Wide-Mouth	2.5 L Jug	(Other: 250 ml bottle)

Comments:

Samplers Signature/Date: Teri White 3.28.06

Figure 7-3. Example Field Sampling Record

Westates,Carbon – Arizona, Inc. Parker, Arizona Project No. 010111

Test # 1 Run # 1 Date & Time of Collection 3-28-06

Frequency 15 minutes

Sampler(s) Debra Foster

Sample Type (circle one): (Composite) Aliquot Grab

Sample Description (if grab sample was taken before during or after test):

Spent Carbon

Sample Source:

Feed Belt

Composite Sampling Time Log

1) 12:13	2) 12:28	3) 12:43	4) 1258	5) 1313	6) 1328
7) 1343	8) 1358	9) 1413	10) 1428	11) 1443	12) 1458
13) 1513	14) 1528	15) 1543	16) 1558	17) 1613	18) 1628
19) 1643	20)_____	21)_____	22)_____	23)_____	24)_____
25)_____	26)_____	27)_____	28)_____	29)_____	30)_____

Volume of each Grab _____ Total Number of Grabs _____

Final pH of Sample _____ Final Volume of Sample _____

Sample Container (circle one):

~~1 L Boston Round~~ TW 3-28-06 1 L Wide-Mouth 500 mL Wide-Mouth

~~40 mL VOA Vial~~ 20 mL VOA Vial 1 gallon. Amber Wheaton Jug

120 mL Wide-Mouth 2.5 L Jug Other: 250 powder jar

Comments:

Samplers Signature/Date: D Foster 3/28/06

Figure 7-3

Figure 7-3. Example Field Sampling Record

Westates,Carbon – Arizona, Inc. Parker, Arizona Project No. 010111

Test # 1 Run # 1 Date & Time of Collection 3-28-06 08:30

Frequency Grab

Sampler(s) Teri White, Debra Foster

Sample Type (circle one): Composite Aliquot (Grab)

Sample Description (if grab sample was taken before during or after test):

Caustic Solution

Sample Source:

Tap

Composite Sampling Time Log

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)_____

Volume of each Grab _____ Total Number of Grabs _____

Final pH of Sample _____ Final Volume of Sample _____

Sample Container (circle one):

1 L Boston Round	1 L Wide-Mouth	500 mL Wide-Mouth
(6) 40 mL VOA Vial	(5) 20 mL VOA Vial	1 gallon. Amber Wheaton Jug
120 mL Wide-Mouth	2.5 L Jug	Other: 4l liter 1-250 ml

TB 3-28-06

Comments:

Samplers Signature/Date: [signature] 3-28-06

Figure 7-3

Figure 7-3. Example Field Sampling Record

Westates,Carbon – Arizona, Inc. Parker, Arizona Project No. 010111

Test # 1 Run # 1 Date & Time of Collection 3-28-06

Frequency 30 minutes

Sampler(s) Teri White

Sample Type (circle one): (Composite) Aliquot Grab

Sample Description (if grab sample was taken before during or after test):

POTW

Sample Source:

Tap

Composite Sampling Time Log

1) 12:10	2) 12:40	3) 13:10	4) 13:40	5) 14:10	6) 14:40
7) 15:10	8) 15:41	9) 16:10	10) 16:39	11)_____	12)_____
13)_____	14)_____	15)_____	16)_____	17)_____	18)_____
19)_____	20)_____	21)_____	22)_____	23)_____	24)_____
25)_____	26)_____	27)_____	28)_____	29)_____	30)_____

Volume of each Grab _____ Total Number of Grabs _____

Final pH of Sample _____ Final Volume of Sample _____

Sample Container (circle one):

(1 L Boston Round)	1 L Wide-Mouth	500 mL Wide-Mouth
(40 mL VOA Vial)	20 mL VOA Vial	1 gallon. Amber Wheaton Jug
120 mL Wide-Mouth	2.5 L Jug	(Other: 250 ml bottle)

Comments:

Samplers Signature/Date: Teri White 3-28-06

Figure 7-3

Figure 7-3. Example Field Sampling Record

Westates,Carbon – Arizona, Inc. Parker, Arizona Project No. 010111

Test # 1 Run # 1 Date & Time of Collection 3-28-06

Frequency 30 minutes

Sampler(s) Teri White

Sample Type (circle one): (Composite) Aliquot Grab

Sample Description (if grab sample was taken before during or after test):

Scrubber Water

Sample Source:

Tap

Composite Sampling Time Log

(1) 12:15	2) 12:45	(3) 13:18	4) 13:45	(5) 14:15	6) 14:44
7) 15:14	8) 15:47	9) 16:17	10) 16:41	11)_____	12)_____
13)_____	14)_____	15)_____	16)_____	17)_____	18)_____
19)_____	20)_____	21)_____	22)_____	23)_____	24)_____
25)_____	26)_____	27)_____	28)_____	29)_____	30)_____

Volume of each Grab _____ Total Number of Grabs _____

Final pH of Sample _____ Final Volume of Sample _____

Sample Container (circle one):

(1 L Boston Round)	1 L Wide-Mouth	500 mL Wide-Mouth
(40 mL VOA Vial)	20 mL VOA Vial	1 gallon. Amber Wheaton Jug
120 mL Wide-Mouth	2.5 L Jug	(Other: 250 ml both)

Comments:

Samplers Signature/Date: Teri White 3-28-06

Figure 7-3

Figure 7-3. Example Field Sampling Record

Westates,Carbon – Arizona, Inc. Parker, Arizona Project No. 010111

Test # 1 Run # 2 Date & Time of Collection 3-29-06

Frequency 30 minutes

Sampler(s) Teri White

Sample Type (circle one): (Composite) Aliquot Grab

Sample Description (if grab sample was taken before during or after test):

POTW

Sample Source:

Tap

Composite Sampling Time Log

(1) 11:15	2) 11:45	(3) 12:15	4) 12:45	(5) 13:15	6) 13:45
(7) 14:15	8) 14:45	(9) 15:15	10) 15:45	11) 16:15	12) 16:45
13)_____	14)_____	15)_____	16)_____	17)_____	18)_____
19)_____	20)_____	21)_____	22)_____	23)_____	24)_____
25)_____	26)_____	27)_____	28)_____	29)_____	30)_____

Volume of each Grab _____ Total Number of Grabs _____

Final pH of Sample _____ Final Volume of Sample _____

Sample Container (circle one):

(1 L Boston Round)	1 L Wide-Mouth	500 mL Wide-Mouth
(40 mL VOA Vial)	20 mL VOA Vial	1 gallon. Amber Wheaton Jug
120 mL Wide-Mouth	2.5 L Jug	Other: (250 ml bottle)

Comments:

_____

_____

Samplers Signature/Date: Teri White

Figure 7-3. Example Field Sampling Record

Westates,Carbon – Arizona, Inc. Parker, Arizona Project No. 010111

Test # 1 Run # 2 Date & Time of Collection 3-29-06

Frequency 30 minutes

Sampler(s) Teri White

Sample Type (circle one): (Composite) Aliquot Grab

Sample Description (if grab sample was taken before during or after test):

Scrubber Blowdown

Sample Source:

Tap

Composite Sampling Time Log

(1) 11:25	2) 11:48	(3) 12:18	4) 12:47	(5) 13:20	6) 13:47
(7) 14:20	8) 14:47	(9) 15:20	10) 15:46	11) 16:17	12) 16:46
13)_____	14)_____	15)_____	16)_____	17)_____	18)_____
19)_____	20)_____	21)_____	22)_____	23)_____	24)_____
25)_____	26)_____	27)_____	28)_____	29)_____	30)_____

Volume of each Grab _____ Total Number of Grabs _____

Final pH of Sample _____ Final Volume of Sample _____

Sample Container (circle one):

(1 L Boston Round)	1 L Wide-Mouth	500 mL Wide-Mouth
(40 mL VOA Vial)	20 mL VOA Vial	1 gallon. Amber Wheaton Jug
120 mL Wide-Mouth	2.5 L Jug	Other: (250 ml Bottle)

Comments:

_____

_____

Samplers Signature/Date: Teri White 3-29-06

Figure 7-3

Figure 7-3. Example Field Sampling Record

Westates,Carbon – Arizona, Inc. Parker, Arizona Project No. 010111

Test # 1 Run # 2 Date & Time of Collection 3-29-06

Frequency Grab

Sampler(s) Teri White

Sample Type (circle one): Composite Aliquot (Grab)

Sample Description (if grab sample was taken before during or after test):

Make-up Water

Sample Source:

Tap

Composite Sampling Time Log

1) 11:30	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)

Volume of each Grab _____ Total Number of Grabs _____

Final pH of Sample _____ Final Volume of Sample _____

Sample Container (circle one):

(1 L Boston Round)	1 L Wide-Mouth	500 mL Wide-Mouth
(40 mL VOA Vial)	20 mL VOA Vial	1 gallon. Amber Wheaton Jug
120 mL Wide-Mouth	2.5 L Jug	Other: (250 ml Bottle)

Comments:

Samplers Signature/Date: Teri White 3-29-06

Figure 7-3. Example Field Sampling Record

Westates,Carbon – Arizona, Inc. Parker, Arizona Project No. 010111

Test # 1 Run # 2 Date & Time of Collection _____

Frequency Composite 15 minutes

Sampler(s) _____

Sample Type (circle one): (Composite) Aliquot Grab

Sample Description (if grab sample was taken before during or after test):

Spent Carbon

Sample Source:

Feed Belt

Composite Sampling Time Log

1) 1115	2) 1130	3) 1145	4) 1200	5) 1215	6) 1230
7) 1245	8) 1300	9) 1315	10) 1330	11) 1345	12) 1400
13) 1415	14) 1430	15) 1445	16) 1500	17) 1515	18) 1530
19) 1545	20) 1600	21) 1615	22) 1630	23) 1645	24) 1700
25) _____	26) _____	27) _____	28) _____	29) _____	30) _____

Volume of each Grab _____ Total Number of Grabs _____

Final pH of Sample _____ Final Volume of Sample _____

Sample Container (circle one):

1 L Boston Round	1 L Wide-Mouth	500 mL Wide-Mouth
40 mL VOA Vial	20 mL VOA Vial	1 gallon. Amber Wheaton Jug
120 mL Wide-Mouth	2.5 L Jug	Other: _____

Comments:

_____

_____

Samplers Signature/Date: [signature] / [signature]

Figure 7-3

STL KNOXVILLE SAMPLE RECEIPT/CONDITION UPON RECEIPT ANOMALY CHECKLIST

Client: STL KNOXVILLE **Project:** _____ **Lot Number:** H6D030205

Review Items	Yes	No	NA	If No, what was the problem?	Comments/Actions Taken
1. Do sample container labels match COC? (IDs, Dates, Times)		✓		☑ **1a** Do not match COC ☐ **1b** Incomplete information ☐ **1c** Marking smeared ☐ **1d** Label torn ☐ **1e** No label ☐ **1f** COC not received ☑ **1g** Other:	NA 1A, G-2886, LABELED AS G-3086, WILL LOG PER LABEL 1G, G-2893, COC LIST 12 VIALS, RECEIVED 30 VIALS 1G, G-2897 " " " " " " "
2. Is the cooler temperature within limits? (> freezing temp. of water to 6 °C; NC, 1668, 1613B: 0-4°C; VOST: 10°C; MA: 2-6 °C)	✓			☐ **2a** Temp Blank = _____ ☐ **2b** Cooler Temp = _____	1G, G-2901, " " 3 " " 6 " 1G, G-2905, " " 12 " " 6 "
3. Were samples received with correct chemical preservative (excluding Encore)?			✓	☐ **3a** Sample preservative =	1G, G-2991, " " 12 " " 10 " 1G, G-2995, " " 12 " " 10 "
4. Were custody seals present/intact on cooler and/or containers?		✓		☑ **4a** Not present ☐ **4b** Not intact ☐ **4c** Other:	1G, G-3003, " " 12 " " 2 " 1G, G-3074, " " 12 " " 10 "
5. Were all of the samples listed on the COC received?	✓			☐ **5a** Samples received-not on COC ☐ **5b** Samples not received-on COC	1G, G-3078 " " 12 " " 10 " 1G, G-3086 " " 12 " " 2 "
6. Were all of the sample containers received intact?	✓			☐ **6a** Leaking ☐ **6b** Broken	
7. Were VOA samples received without headspace?	✓			☐ **7a** Headspace (VOA only)	
8. Were samples received in appropriate containers?	✓			☐ **8a** Improper container	
9. Did you check for residual chlorine, if necessary?		✓		☐ **9a** Could not be determined due to matrix interference	
10. Were samples received within holding time?	✓			☐ **10a** Holding time expired	
11. For rad samples, was sample activity info. provided?			✓	☐ Incomplete information	
12. For SOG water samples (1613B, 1668A, 8290, LR PAHs), do samples have visible solids present?			✓	If yes & appears to be >1%, was SOG notified? _____	
13. Are the shipping containers intact?	✓			☐ **13a** Leaking ☐ **13b** Other:	
14. Was COC relinquished? (Signed/Dated/Timed)		✓		☑ **14a** Not relinquished	
15. Are tests/parameters listed for each sample?	✓			☐ **15a** Incomplete information	
16. Is the matrix of the samples noted?	✓			☐ **15a** Incomplete information	
17. Is the date/time of sample collection noted?	✓			☐ **15a** Incomplete information	
18. Is the client and project name/# identified?	✓			☐ **15a** Incomplete information	
19. Was the sampler identified on the COC?		✓			

Quote #: _____ PM Instructions: _____

Sample Receiving Associate: _____ Date: 4·3·06

QA026R18.doc, 1/30/06