

## **APPENDIX F**

### **Laboratory Analytical Reports**

#### **F.1 - May 2004 Sampling Event**

Quarter 1 analyses are contained in two sample delivery groups (SDGs).

SDG 1 contains results from MW-1, MW-8 and MW-9. SDG 1 begins on the next page.

SDG 2 contains results from MW-1, MW-2, MW-3, MW-4, MW-6, MW-7, MW-10, MW-11 and MW-12. This SDG begins on page 720 of the pdf document.

**(Enclosed on CD)**

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**ANALYTICAL REPORT**

USDA NADC Site 1

Lot #: D4E190262

Carl Yound

Cabrera Services, Inc.  
111 West Monument St  
First Floor  
Baltimore, MD 21201

**STL DENVER**



**Susan Decker**  
Project Manager

June 9, 2004

## Case Narrative

Lot D4E190262

With exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. All laboratory quality control samples analyzed in conjunction with the samples in this project were within established control limits, with any exceptions noted.

The test results presented in this report meet all requirements of NELAC, and any exceptions are noted. This report shall not be reproduced, except in full, without written permission from the laboratory.

### Sample Receiving

Five samples and one trip blank were received under chain of custody on May 19, 2004. The samples were received at temperatures of 2.3°C and 18.4°C.

The trip blank that was received at the laboratory was not listed on the associated chain-of-custody. Per client request the sample was labeled as TB1 and logged for 8260B.

The Tritium 906.0 MOD, Ni-63 STL-RC-0055, and Carbon 14 C-01-1, analyses presented in this report were performed at the STL St Louis facility, at 13715 Rider Trail North, Earth City, MO 63045, (314) 298-8566.

### Radiological Chemistry, EERF C-01-1, DOE STL-RC-0055, EPA 9.06.0 MOD

The reporting limits were not met due to a reduced aliquot used to minimize interference. Analytical results are reported with the MDC achieved.

All MS/MSDs were performed on samples from another client and/or lot and were in control.

The EERF C-01-1 duplicate was performed on sample D4E190262-001 and was in control.

The EPA 906.0 MOD duplicate was performed on a sample from another client and/or lot and was in control.

### GC/MS Volatiles, SW846 8260B

The method blank contained methylene chloride at a concentration above the method detection limit but below reporting limit. The associated positive sample results have been flagged "B".

The MS/MSD was performed on a sample from another client and/or lot and was in control.



### **GC/MS Semivolatiles, SW846 8270C**

Sample D4E190262-001 demonstrated nitrobenzene-d5 surrogate recovery below control limits. All other surrogates were in control.

A MS/MSD was not request and the laboratory could not designate one due to insufficient sample volume.

The Initial Calibration standards demonstrated a relative standard deviation (RSD) greater than +15% for 1,4-naphthoquinone. The average percent drifts for all compounds in the ICV standards were less than  $\pm 15\%$ ; therefore the ICV standards met all criteria for the method.

The second source verification of the initial calibration (ICV) demonstrated a difference greater than 55% for methyl methanesulfonate.

# METHODS SUMMARY

D4E190262

<u>PARAMETER</u>	<u>ANALYTICAL METHOD</u>	<u>PREPARATION METHOD</u>
Carbon 14 by LSC	EERF C-01-1	
H-3 by Distillation & LSC	EPA 906.0 MOD	
Ni-59/Ni-63 by Liquid Scint. Spectrometry	DOE STL-RC-0055	
Semivolatile Organic Compounds by GC/MS	SW846 8270C	SW846 3520C
Volatile Organics by GC/MS	SW846 8260B	SW846 5030B/826

## References:

DOE	"DOE METHODS FOR EVALUATING ENVIRONMENTAL AND WASTE MANAGEMENT SAMPLES" OCTOBER 1994 US DEPARTMENT OF ENERGY
EERF	EERF
EPA	"EASTERN ENVIRONMENTAL RADIATION FACILITY RADIOCHEMISTRY PROCEDURES MANUAL" US EPA EPA 520/5-84-006 AUGUST 1984
SW846	"Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 and its updates.

## METHOD / ANALYST SUMMARY

D4E190262

<u>ANALYTICAL METHOD</u>	<u>ANALYST</u>	<u>ANALYST ID</u>
DOE STL-RC-0055	Rhonda Rupprecht	060040
EERF C-01-1	Ivan Vania	400697
EPA 906.0 MOD	Ivan Vania	400697
SW846 8260B	Josh Yanez	001198
SW846 8270C	Rwanda Todea	005716

### References:

DOE	"DOE METHODS FOR EVALUATING ENVIRONMENTAL AND WASTE MANAGEMENT SAMPLES" OCTOBER 1994 US DEPARTMENT OF ENERGY
EERF	EERF
EPA	"EASTERN ENVIRONMENTAL RADIATION FACILITY RADIOCHEMISTRY PROCEDURES MANUAL" US EPA EPA 520/5-84-006 AUGUST 1984
SW846	"Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 and its updates.

# SAMPLE SUMMARY

D4E190262

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
GGJX4	001	01-MW-01	05/18/04	13:42
GGJX6	002	01-MW-08	05/18/04	15:30
GGJX8	003	01-MW-EB	05/18/04	16:00
GGJX9	004	01-MW-09	05/18/04	17:00
GGJ0A	005	01-MW-09DUP	05/18/04	17:00
GGJ2F	006	TB1	05/18/04	

## 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.

# Cabrera Services

Client Sample ID: 01-MW-01

## Severn Trent Laboratories - Radiochemistry

Lab Sample ID: D4E190262-001  
Work Order: GGJX4  
Matrix: WATER

Date Collected: 05/18/04 1342  
Date Received: 05/19/04 0930

Parameter	Result	Qual	Total Uncert. (2 $\sigma$ +/-)	MDC	Prep Date	Analysis Date	Batch #	Yld %
<b>Ni-59 &amp; Ni-63 by Liquid Scint. Spec.</b>					<b>STL-RC-0055</b>			
Nickel 63	-0.35	U	0.84	23	06/02/04	06/04/04	4154153	81
<b>Carbon 14 by EERF C-01-1</b>					<b>C-01-1</b>			
Carbon 14	-8.8	U	-8.3	14	06/03/04	06/05/04	4155582	
<b>TRITIUM (Distill) by EPA 906.0 MOD</b>					<b>906.0 MOD</b>			
Tritium	-50	U	140	270	05/28/04	05/29/04	4149150	

### NOTE(S)

Data are incomplete without the case narrative.

MDC is determined by instrument performance only.

Bold results are greater than the MDC

U Result is less than the sample detection limit.

# Cabrera Services

Client Sample ID: 01-MW-01 DUP

## Severn Trent Laboratories - Radiochemistry

Lab Sample ID: D4E190262-001X  
Work Order: GGJX4  
Matrix: WATER

Date Collected: 05/18/04 1342  
Date Received: 05/19/04 0930

Parameter	Result	Qual	Total Uncert. (2 $\sigma$ +/-)	MDC	Prep Date	Analysis Date	Batch #	Yld %
<b>Carbon 14 by EERF</b>	<b>C-01-1</b>			<b>pCi/L</b>		<b>C-01-1</b>		
Carbon 14	-5.3	U	-7.5	13	06/03/04	06/05/04	4155582	

### NOTE(S)

Data are incomplete without the case narrative.

MDC is determined by instrument performance only.

Bold results are greater than the MDC

U Result is less than the sample detection limit.

# Cabrera Services

Client Sample ID: 01-MW-08

## Severn Trent Laboratories - Radiochemistry

Lab Sample ID: D4E190262-002  
Work Order: GGJX6  
Matrix: WATER

Date Collected: 05/18/04 1530  
Date Received: 05/19/04 0930

Parameter	Result	Qual	Total Uncert. (2 $\sigma$ +/-)	MDC	Prep Date	Analysis Date	Batch #	Yld %
<b>Ni-59 &amp; Ni-63 by Liquid Scint. Spec.</b>								
Nickel 63	-19	U	16	21	06/02/04	06/04/04	4154153	88
<b>Carbon 14 by EERF C-01-1</b>								
Carbon 14	-8.8	U	-7.5	14	06/03/04	06/05/04	4155582	
<b>TRITIUM (Distill) by EPA 906.0 MOD</b>								
Tritium	-40	U	150	270	05/28/04	05/29/04	4149150	

### NOTE(S)

Data are incomplete without the case narrative.

MDC is determined by instrument performance only.

Bold results are greater than the MDC

U Result is less than the sample detection limit.

# Cabrera Services

Client Sample ID: 01-MW-EB

## Severn Trent Laboratories - Radiochemistry

Lab Sample ID: D4E190262-003  
Work Order: GGJX8  
Matrix: WATER

Date Collected: 05/18/04 1600  
Date Received: 05/19/04 0930

Parameter	Result	Qual	Total Uncert. (2 $\sigma$ +/-)	MDC	Prep Date	Analysis Date	Batch #	Yld %
Ni-59 & Ni-63 by Liquid Scint. Spec.				pCi/L		STL-RC-0055		
Nickel 63	-10	U	28	22	06/02/04	06/04/04	4154153	87

### NOTE(S)

Data are incomplete without the case narrative.

MDC is determined by instrument performance only.

Bold results are greater than the MDC

U Result is less than the sample detection limit.



# Cabrera Services

Client Sample ID: 01-MW-09

## Severn Trent Laboratories - Radiochemistry

Lab Sample ID: D4E190262-004  
Work Order: GGJX9  
Matrix: WATER

Date Collected: 05/18/04 1700  
Date Received: 05/19/04 0930

Parameter	Result	Qual	Total Uncert. (2 $\sigma$ +/-)	MDC	Prep Date	Analysis Date	Batch #	Yld %
<b>Ni-59 &amp; Ni-63 by Liquid Scint. Spec.</b>				<b>pCi/L</b>		<b>STL-RC-0055</b>		
Nickel 63	-16	U	18	21	06/02/04	06/04/04	4154153	87
<b>Carbon 14 by EERF C-01-1</b>				<b>pCi/L</b>		<b>C-01-1</b>		
Carbon 14	-6.4	U	-7.9	15	06/03/04	06/05/04	4155582	
<b>TRITIUM (Distill) by EPA 906.0 MOD</b>				<b>pCi/L</b>		<b>906.0 MOD</b>		
Tritium	100	U	170	270	05/28/04	05/29/04	4149150	

### NOTE(S)

Data are incomplete without the case narrative.

MDC is determined by instrument performance only.

Bold results are greater than the MDC

U Result is less than the sample detection limit.

# Cabrera Services

Client Sample ID: 01-MW-09DUP

## Severn Trent Laboratories - Radiochemistry

Lab Sample ID: D4E190262-005  
Work Order: GGJ0A  
Matrix: WATER

Date Collected: 05/18/04 1700  
Date Received: 05/19/04 0930

Parameter	Result	Qual	Total Uncert. (2 $\sigma$ +/-)	MDC	Prep Date	Analysis Date	Batch #	Yld %
Ni-59 & Ni-63 by Liquid Scint. Spec.				pCi/L	STL-RC-0055			
Nickel 63	-15	U	19	21	06/02/04	06/04/04	4154153	88

### NOTE(S)

Data are incomplete without the case narrative.

MDC is determined by instrument performance only.

Bold results are greater than the MDC

U Result is less than the sample detection limit.

## Cabrera Services

Client Sample ID: 01-MW-01

## GC/MS Volatiles

Lot-Sample #....: D4E190262-001    Work Order #....: GGJX41AA    Matrix.....: WATER  
 Date Sampled....: 05/18/04 13:42    Date Received...: 05/19/04  
 Prep Date.....: 05/26/04    Analysis Date...: 05/26/04  
 Prep Batch #....: 4152049    Analysis Time...: 10:22  
 Dilution Factor: 1    Initial Wgt/Vol: 20 mL    Final Wgt/Vol...: 20 mL  
 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	ND	10	ug/L	2.5
Benzene	ND	1.0	ug/L	0.17
Bromodichloromethane	ND	1.0	ug/L	0.20
Bromoform	ND	1.0	ug/L	0.23
Bromomethane	ND	2.0	ug/L	0.22
2-Butanone (MEK)	ND	5.0	ug/L	2.0
Carbon tetrachloride	ND	1.0	ug/L	0.20
Chlorobenzene	ND	1.0	ug/L	0.13
Chloroethane	ND	2.0	ug/L	0.18
Chloroform	ND	1.0	ug/L	0.17
Chloromethane	ND	2.0	ug/L	0.91
Dibromomethane	ND	1.0	ug/L	0.31
1,2-Dibromoethane (EDB)	ND	1.0	ug/L	0.18
1,2-Dichlorobenzene	ND	1.0	ug/L	0.15
1,3-Dichlorobenzene	ND	1.0	ug/L	0.13
1,4-Dichlorobenzene	ND	1.0	ug/L	0.16
Dichlorodifluoromethane	ND	2.0	ug/L	0.22
1,1-Dichloroethane	ND	1.0	ug/L	0.22
1,2-Dichloroethane	ND	1.0	ug/L	0.26
1,1-Dichloroethene	ND	1.0	ug/L	0.23
1,2-Dichloroethene	ND	1.0	ug/L	0.24
(total)				
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.14
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.15
1,2-Dichloropropane	ND	1.0	ug/L	0.18
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.19
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.20
Ethylbenzene	ND	1.0	ug/L	0.12
2-Hexanone	ND	5.0	ug/L	1.7
<b>Methylene chloride</b>	<b>0.40 J,B</b>	<b>5.0</b>	<b>ug/L</b>	<b>0.21</b>
4-Methyl-2-pentanone	ND	5.0	ug/L	0.98
Styrene	ND	1.0	ug/L	0.14
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	0.21
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.21
Tetrachloroethene	ND	1.0	ug/L	0.26
Toluene	ND	1.0	ug/L	0.15
1,2,4-Trichloro- benzene	ND	1.0	ug/L	0.21

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**Cabrera Services**

**Client Sample ID: 01-MW-01**

**GC/MS Volatiles**

**Lot-Sample #...: D4E190262-001    Work Order #...: GGJX41AA    Matrix.....: WATER**

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1,1-Trichloroethane	ND	1.0	ug/L	0.16
1,1,2-Trichloroethane	ND	1.0	ug/L	0.27
Trichloroethene	ND	1.0	ug/L	0.16
Trichlorofluoromethane	ND	2.0	ug/L	0.24
1,2,3-Trichloropropane	ND	1.0	ug/L	0.33
Vinyl chloride	ND	1.0	ug/L	0.19
Xylenes (total)	ND	2.0	ug/L	0.41
n-Butylbenzene	ND	1.0	ug/L	0.21
sec-Butylbenzene	ND	1.0	ug/L	0.23
Isopropylbenzene	ND	1.0	ug/L	0.17
1,2,4-Trimethylbenzene	ND	1.0	ug/L	0.15
1,3,5-Trimethylbenzene	ND	1.0	ug/L	0.16
n-Propylbenzene	ND	1.0	ug/L	0.17
tert-Butylbenzene	ND	1.0	ug/L	0.17
Dibromochloromethane	ND	1.0	ug/L	0.19
2-Chlorotoluene	ND	1.0	ug/L	0.17
4-Chlorotoluene	ND	1.0	ug/L	0.21
1,2-Dibromo-3-chloropropane (DBCP)	ND	2.0	ug/L	0.47
1,3-Dichloropropane	ND	1.0	ug/L	0.22
2,2-Dichloropropane	ND	5.0	ug/L	0.18
1,1-Dichloropropene	ND	1.0	ug/L	0.19
Hexachlorobutadiene	ND	1.0	ug/L	0.18
4-Isopropyltoluene	ND	1.0	ug/L	0.20
Methyl tert-butyl ether	ND	5.0	ug/L	0.38
1,2,3-Trichlorobenzene	ND	1.0	ug/L	0.21
m-Xylene & p-Xylene	ND	2.0	ug/L	0.27
o-Xylene	ND	1.0	ug/L	0.15
Bromobenzene	ND	1.0	ug/L	0.17
Bromochloromethane	ND	1.0	ug/L	0.27
Naphthalene	ND	1.0	ug/L	0.50

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	98	(76 - 116)
1,2-Dichloroethane-d4	93	(59 - 129)
4-Bromofluorobenzene	98	(74 - 114)
Toluene-d8	104	(76 - 116)

**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.

**Cabrera Services**

**Client Sample ID: 01-MW-08**

**GC/MS Volatiles**

<b>Lot-Sample #....:</b> D4E190262-002	<b>Work Order #....:</b> GGJX61AA	<b>Matrix.....:</b> WATER
<b>Date Sampled....:</b> 05/18/04 15:30	<b>Date Received...:</b> 05/19/04	
<b>Prep Date.....:</b> 05/26/04	<b>Analysis Date...:</b> 05/26/04	
<b>Prep Batch #....:</b> 4152049	<b>Analysis Time...:</b> 10:42	
<b>Dilution Factor:</b> 1	<b>Initial Wgt/Vol:</b> 20 mL	<b>Final Wgt/Vol...:</b> 20 mL
	<b>Method.....:</b> SW846 8260B	

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
<b>Acetone</b>	<b>3.7 J</b>	<b>10</b>	<b>ug/L</b>	<b>2.5</b>
Benzene	ND	1.0	ug/L	0.17
Bromodichloromethane	ND	1.0	ug/L	0.20
Bromoform	ND	1.0	ug/L	0.23
Bromomethane	ND	2.0	ug/L	0.22
2-Butanone (MEK)	ND	5.0	ug/L	2.0
Carbon tetrachloride	ND	1.0	ug/L	0.20
Chlorobenzene	ND	1.0	ug/L	0.13
Chloroethane	ND	2.0	ug/L	0.18
Chloroform	ND	1.0	ug/L	0.17
Chloromethane	ND	2.0	ug/L	0.91
Dibromomethane	ND	1.0	ug/L	0.31
1,2-Dibromoethane (EDB)	ND	1.0	ug/L	0.18
1,2-Dichlorobenzene	ND	1.0	ug/L	0.15
1,3-Dichlorobenzene	ND	1.0	ug/L	0.13
1,4-Dichlorobenzene	ND	1.0	ug/L	0.16
Dichlorodifluoromethane	ND	2.0	ug/L	0.22
1,1-Dichloroethane	ND	1.0	ug/L	0.22
1,2-Dichloroethane	ND	1.0	ug/L	0.26
1,1-Dichloroethene	ND	1.0	ug/L	0.23
1,2-Dichloroethene	ND	1.0	ug/L	0.24
(total)				
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.14
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.15
1,2-Dichloropropane	ND	1.0	ug/L	0.18
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.19
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.20
Ethylbenzene	ND	1.0	ug/L	0.12
2-Hexanone	ND	5.0	ug/L	1.7
<b>Methylene chloride</b>	<b>0.37 J,B</b>	<b>5.0</b>	<b>ug/L</b>	<b>0.21</b>
4-Methyl-2-pentanone	ND	5.0	ug/L	0.98
Styrene	ND	1.0	ug/L	0.14
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	0.21
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.21
Tetrachloroethene	ND	1.0	ug/L	0.26
Toluene	ND	1.0	ug/L	0.15
1,2,4-Trichloro- benzene	ND	1.0	ug/L	0.21

(Continued on next page)

**Cabrera Services**

**Client Sample ID: 01-MW-08**

**GC/MS Volatiles**

**Lot-Sample #...: D4E190262-002    Work Order #...: GGJX61AA    Matrix.....: WATER**

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1,1-Trichloroethane	ND	1.0	ug/L	0.16
1,1,2-Trichloroethane	ND	1.0	ug/L	0.27
Trichloroethene	ND	1.0	ug/L	0.16
Trichlorofluoromethane	ND	2.0	ug/L	0.24
1,2,3-Trichloropropane	ND	1.0	ug/L	0.33
Vinyl chloride	ND	1.0	ug/L	0.19
Xylenes (total)	ND	2.0	ug/L	0.41
n-Butylbenzene	ND	1.0	ug/L	0.21
sec-Butylbenzene	ND	1.0	ug/L	0.23
Isopropylbenzene	ND	1.0	ug/L	0.17
1,2,4-Trimethylbenzene	ND	1.0	ug/L	0.15
1,3,5-Trimethylbenzene	ND	1.0	ug/L	0.16
n-Propylbenzene	ND	1.0	ug/L	0.17
tert-Butylbenzene	ND	1.0	ug/L	0.17
Dibromochloromethane	ND	1.0	ug/L	0.19
2-Chlorotoluene	ND	1.0	ug/L	0.17
4-Chlorotoluene	ND	1.0	ug/L	0.21
1,2-Dibromo-3-chloropropane (DBCP)	ND	2.0	ug/L	0.47
1,3-Dichloropropane	ND	1.0	ug/L	0.22
2,2-Dichloropropane	ND	5.0	ug/L	0.18
1,1-Dichloropropene	ND	1.0	ug/L	0.19
Hexachlorobutadiene	ND	1.0	ug/L	0.18
4-Isopropyltoluene	ND	1.0	ug/L	0.20
Methyl tert-butyl ether	ND	5.0	ug/L	0.38
1,2,3-Trichlorobenzene	ND	1.0	ug/L	0.21
m-Xylene & p-Xylene	ND	2.0	ug/L	0.27
o-Xylene	ND	1.0	ug/L	0.15
Bromobenzene	ND	1.0	ug/L	0.17
Bromochloromethane	ND	1.0	ug/L	0.27
Naphthalene	ND	1.0	ug/L	0.50

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	99	(76 - 116)
1,2-Dichloroethane-d4	93	(59 - 129)
4-Bromofluorobenzene	96	(74 - 114)
Toluene-d8	104	(76 - 116)

**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.

**Cabrera Services**

**Client Sample ID: 01-MW-EB**

**GC/MS Volatiles**

<b>Lot-Sample #...</b> : D4E190262-003	<b>Work Order #...</b> : GGJX81AA	<b>Matrix.....</b> : WATER
<b>Date Sampled...</b> : 05/18/04 16:00	<b>Date Received...</b> : 05/19/04	
<b>Prep Date.....</b> : 05/26/04	<b>Analysis Date...</b> : 05/26/04	
<b>Prep Batch #...</b> : 4152049	<b>Analysis Time...</b> : 11:02	
<b>Dilution Factor:</b> 1	<b>Initial Wgt/Vol:</b> 20 mL	<b>Final Wgt/Vol...:</b> 20 mL
	<b>Method.....</b> : SW846 8260B	

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Acetone	ND	10	ug/L	2.5
Benzene	ND	1.0	ug/L	0.17
Bromodichloromethane	ND	1.0	ug/L	0.20
Bromoform	ND	1.0	ug/L	0.23
Bromomethane	ND	2.0	ug/L	0.22
2-Butanone (MEK)	ND	5.0	ug/L	2.0
Carbon tetrachloride	ND	1.0	ug/L	0.20
Chlorobenzene	ND	1.0	ug/L	0.13
Chloroethane	ND	2.0	ug/L	0.18
Chloroform	ND	1.0	ug/L	0.17
Chloromethane	ND	2.0	ug/L	0.91
Dibromomethane	ND	1.0	ug/L	0.31
1,2-Dibromoethane (EDB)	ND	1.0	ug/L	0.18
1,2-Dichlorobenzene	ND	1.0	ug/L	0.15
1,3-Dichlorobenzene	ND	1.0	ug/L	0.13
1,4-Dichlorobenzene	ND	1.0	ug/L	0.16
Dichlorodifluoromethane	ND	2.0	ug/L	0.22
1,1-Dichloroethane	ND	1.0	ug/L	0.22
1,2-Dichloroethane	ND	1.0	ug/L	0.26
1,1-Dichloroethene	ND	1.0	ug/L	0.23
1,2-Dichloroethene	ND	1.0	ug/L	0.24
(total)				
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.14
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.15
1,2-Dichloropropane	ND	1.0	ug/L	0.18
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.19
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.20
Ethylbenzene	ND	1.0	ug/L	0.12
2-Hexanone	ND	5.0	ug/L	1.7
<b>Methylene chloride</b>	<b>0.37 J,B</b>	<b>5.0</b>	<b>ug/L</b>	<b>0.21</b>
4-Methyl-2-pentanone	ND	5.0	ug/L	0.98
Styrene	ND	1.0	ug/L	0.14
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	0.21
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.21
Tetrachloroethene	ND	1.0	ug/L	0.26
Toluene	ND	1.0	ug/L	0.15
1,2,4-Trichloro- benzene	ND	1.0	ug/L	0.21

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**Cabrera Services**

**Client Sample ID: 01-MW-KB**

**GC/MS Volatiles**

**Lot-Sample #....: D4E190262-003    Work Order #....: GGJX81AA    Matrix.....: WATER**

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1,1-Trichloroethane	ND	1.0	ug/L	0.16
1,1,2-Trichloroethane	ND	1.0	ug/L	0.27
Trichloroethene	ND	1.0	ug/L	0.16
Trichlorofluoromethane	ND	2.0	ug/L	0.24
1,2,3-Trichloropropane	ND	1.0	ug/L	0.33
Vinyl chloride	ND	1.0	ug/L	0.19
Xylenes (total)	ND	2.0	ug/L	0.41
n-Butylbenzene	ND	1.0	ug/L	0.21
sec-Butylbenzene	ND	1.0	ug/L	0.23
Isopropylbenzene	ND	1.0	ug/L	0.17
1,2,4-Trimethylbenzene	ND	1.0	ug/L	0.15
1,3,5-Trimethylbenzene	ND	1.0	ug/L	0.16
n-Propylbenzene	ND	1.0	ug/L	0.17
tert-Butylbenzene	ND	1.0	ug/L	0.17
Dibromochloromethane	ND	1.0	ug/L	0.19
2-Chlorotoluene	ND	1.0	ug/L	0.17
4-Chlorotoluene	ND	1.0	ug/L	0.21
1,2-Dibromo-3-chloropropane (DBCP)	ND	2.0	ug/L	0.47
1,3-Dichloropropane	ND	1.0	ug/L	0.22
2,2-Dichloropropane	ND	5.0	ug/L	0.18
1,1-Dichloropropene	ND	1.0	ug/L	0.19
Hexachlorobutadiene	ND	1.0	ug/L	0.18
4-Isopropyltoluene	ND	1.0	ug/L	0.20
Methyl tert-butyl ether	ND	5.0	ug/L	0.38
1,2,3-Trichlorobenzene	ND	1.0	ug/L	0.21
m-Xylene & p-Xylene	ND	2.0	ug/L	0.27
o-Xylene	ND	1.0	ug/L	0.15
Bromobenzene	ND	1.0	ug/L	0.17
Bromochloromethane	ND	1.0	ug/L	0.27
Naphthalene	ND	1.0	ug/L	0.50

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	98	(76 - 116)
1,2-Dichloroethane-d4	94	(59 - 129)
4-Bromofluorobenzene	98	(74 - 114)
Toluene-d8	102	(76 - 116)

**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.



**Cabrera Services**

**Client Sample ID: 01-MW-09**

**GC/MS Volatiles**

<b>Lot-Sample #....:</b> D4E190262-004	<b>Work Order #....:</b> GGJX91AA	<b>Matrix.....:</b> WATER
<b>Date Sampled....:</b> 05/18/04 17:00	<b>Date Received...:</b> 05/19/04	
<b>Prep Date.....:</b> 05/26/04	<b>Analysis Date...:</b> 05/26/04	
<b>Prep Batch #....:</b> 4152049	<b>Analysis Time...:</b> 11:22	
<b>Dilution Factor:</b> 1	<b>Initial Wgt/Vol:</b> 20 mL	<b>Final Wgt/Vol...:</b> 20 mL
	<b>Method.....:</b> SW846 8260B	

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	ND	10	ug/L	2.5
Benzene	ND	1.0	ug/L	0.17
Bromodichloromethane	ND	1.0	ug/L	0.20
Bromoform	ND	1.0	ug/L	0.23
Bromomethane	ND	2.0	ug/L	0.22
2-Butanone (MEK)	ND	5.0	ug/L	2.0
Carbon tetrachloride	ND	1.0	ug/L	0.20
Chlorobenzene	ND	1.0	ug/L	0.13
Chloroethane	ND	2.0	ug/L	0.18
Chloroform	ND	1.0	ug/L	0.17
Chloromethane	ND	2.0	ug/L	0.91
Dibromomethane	ND	1.0	ug/L	0.31
1,2-Dibromoethane (EDB)	ND	1.0	ug/L	0.18
1,2-Dichlorobenzene	ND	1.0	ug/L	0.15
1,3-Dichlorobenzene	ND	1.0	ug/L	0.13
1,4-Dichlorobenzene	ND	1.0	ug/L	0.16
Dichlorodifluoromethane	ND	2.0	ug/L	0.22
1,1-Dichloroethane	ND	1.0	ug/L	0.22
1,2-Dichloroethane	ND	1.0	ug/L	0.26
1,1-Dichloroethene	ND	1.0	ug/L	0.23
1,2-Dichloroethene	ND	1.0	ug/L	0.24
(total)				
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.14
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.15
1,2-Dichloropropane	ND	1.0	ug/L	0.18
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.19
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.20
Ethylbenzene	ND	1.0	ug/L	0.12
2-Hexanone	ND	5.0	ug/L	1.7
<b>Methylene chloride</b>	<b>0.35 J,B</b>	<b>5.0</b>	<b>ug/L</b>	<b>0.21</b>
4-Methyl-2-pentanone	ND	5.0	ug/L	0.98
Styrene	ND	1.0	ug/L	0.14
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	0.21
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.21
Tetrachloroethene	ND	1.0	ug/L	0.26
Toluene	ND	1.0	ug/L	0.15
1,2,4-Trichloro- benzene	ND	1.0	ug/L	0.21

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**Cabrera Services**

**Client Sample ID: 01-MW-09**

**GC/MS Volatiles**

**Lot-Sample #....: D4E190262-004    Work Order #....: GGJX91AA    Matrix.....: WATER**

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1,1-Trichloroethane	ND	1.0	ug/L	0.16
1,1,2-Trichloroethane	ND	1.0	ug/L	0.27
Trichloroethene	ND	1.0	ug/L	0.16
Trichlorofluoromethane	ND	2.0	ug/L	0.24
1,2,3-Trichloropropane	ND	1.0	ug/L	0.33
Vinyl chloride	ND	1.0	ug/L	0.19
Xylenes (total)	ND	2.0	ug/L	0.41
n-Butylbenzene	ND	1.0	ug/L	0.21
sec-Butylbenzene	ND	1.0	ug/L	0.23
Isopropylbenzene	ND	1.0	ug/L	0.17
1,2,4-Trimethylbenzene	ND	1.0	ug/L	0.15
1,3,5-Trimethylbenzene	ND	1.0	ug/L	0.16
n-Propylbenzene	ND	1.0	ug/L	0.17
tert-Butylbenzene	ND	1.0	ug/L	0.17
Dibromochloromethane	ND	1.0	ug/L	0.19
2-Chlorotoluene	ND	1.0	ug/L	0.17
4-Chlorotoluene	ND	1.0	ug/L	0.21
1,2-Dibromo-3-chloropropane (DBCP)	ND	2.0	ug/L	0.47
1,3-Dichloropropane	ND	1.0	ug/L	0.22
2,2-Dichloropropane	ND	5.0	ug/L	0.18
1,1-Dichloropropene	ND	1.0	ug/L	0.19
Hexachlorobutadiene	ND	1.0	ug/L	0.18
4-Isopropyltoluene	ND	1.0	ug/L	0.20
Methyl tert-butyl ether	ND	5.0	ug/L	0.38
1,2,3-Trichlorobenzene	ND	1.0	ug/L	0.21
m-Xylene & p-Xylene	ND	2.0	ug/L	0.27
o-Xylene	ND	1.0	ug/L	0.15
Bromobenzene	ND	1.0	ug/L	0.17
Bromochloromethane	ND	1.0	ug/L	0.27
Naphthalene	ND	1.0	ug/L	0.50

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	99	(76 - 116)
1,2-Dichloroethane-d4	95	(59 - 129)
4-Bromofluorobenzene	94	(74 - 114)
Toluene-d8	102	(76 - 116)

**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.

**Cabrera Services**

**Client Sample ID: 01-MW-09DUP**

**GC/MS Volatiles**

<b>Lot-Sample #....:</b> D4E190262-005	<b>Work Order #....:</b> GGJ0A1AA	<b>Matrix.....:</b> WATER
<b>Date Sampled....:</b> 05/18/04 17:00	<b>Date Received...:</b> 05/19/04	
<b>Prep Date.....:</b> 05/26/04	<b>Analysis Date...:</b> 05/26/04	
<b>Prep Batch #....:</b> 4152049	<b>Analysis Time...:</b> 11:42	
<b>Dilution Factor:</b> 1	<b>Initial Wgt/Vol:</b> 20 mL	<b>Final Wgt/Vol...:</b> 20 mL
	<b>Method.....:</b> SW846 8260B	

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	ND	1.0	ug/L	2.5
Benzene	ND	1.0	ug/L	0.17
Bromodichloromethane	ND	1.0	ug/L	0.20
Bromoform	ND	1.0	ug/L	0.23
Bromomethane	ND	2.0	ug/L	0.22
2-Butanone (MEK)	ND	5.0	ug/L	2.0
Carbon tetrachloride	ND	1.0	ug/L	0.20
Chlorobenzene	ND	1.0	ug/L	0.13
Chloroethane	ND	2.0	ug/L	0.18
Chloroform	ND	1.0	ug/L	0.17
Chloromethane	ND	2.0	ug/L	0.91
Dibromomethane	ND	1.0	ug/L	0.31
1,2-Dibromoethane (EDB)	ND	1.0	ug/L	0.18
1,2-Dichlorobenzene	ND	1.0	ug/L	0.15
1,3-Dichlorobenzene	ND	1.0	ug/L	0.13
1,4-Dichlorobenzene	ND	1.0	ug/L	0.16
Dichlorodifluoromethane	ND	2.0	ug/L	0.22
1,1-Dichloroethane	ND	1.0	ug/L	0.22
1,2-Dichloroethane	ND	1.0	ug/L	0.26
1,1-Dichloroethene	ND	1.0	ug/L	0.23
1,2-Dichloroethene	ND	1.0	ug/L	0.24
(total)				
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.14
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.15
1,2-Dichloropropane	ND	1.0	ug/L	0.18
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.19
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.20
Ethylbenzene	ND	1.0	ug/L	0.12
2-Hexanone	ND	5.0	ug/L	1.7
<b>Methylene chloride</b>	<b>0.35 J,B</b>	<b>5.0</b>	<b>ug/L</b>	<b>0.21</b>
4-Methyl-2-pentanone	ND	5.0	ug/L	0.98
Styrene	ND	1.0	ug/L	0.14
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	0.21
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.21
Tetrachloroethene	ND	1.0	ug/L	0.26
Toluene	ND	1.0	ug/L	0.15
1,2,4-Trichloro- benzene	ND	1.0	ug/L	0.21

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**Cabrera Services**

**Client Sample ID: 01-MW-09DUP**

**GC/MS Volatiles**

**Lot-Sample #....: D4E190262-005    Work Order #....: GGJ0A1AA    Matrix.....: WATER**

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1,1-Trichloroethane	ND	1.0	ug/L	0.16
1,1,2-Trichloroethane	ND	1.0	ug/L	0.27
Trichloroethene	ND	1.0	ug/L	0.16
Trichlorofluoromethane	ND	2.0	ug/L	0.24
1,2,3-Trichloropropane	ND	1.0	ug/L	0.33
Vinyl chloride	ND	1.0	ug/L	0.19
Xylenes (total)	ND	2.0	ug/L	0.41
n-Butylbenzene	ND	1.0	ug/L	0.21
sec-Butylbenzene	ND	1.0	ug/L	0.23
Isopropylbenzene	ND	1.0	ug/L	0.17
1,2,4-Trimethylbenzene	ND	1.0	ug/L	0.15
1,3,5-Trimethylbenzene	ND	1.0	ug/L	0.16
n-Propylbenzene	ND	1.0	ug/L	0.17
tert-Butylbenzene	ND	1.0	ug/L	0.17
Dibromochloromethane	ND	1.0	ug/L	0.19
2-Chlorotoluene	ND	1.0	ug/L	0.17
4-Chlorotoluene	ND	1.0	ug/L	0.21
1,2-Dibromo-3-chloropropane (DBCP)	ND	2.0	ug/L	0.47
1,3-Dichloropropane	ND	1.0	ug/L	0.22
2,2-Dichloropropane	ND	5.0	ug/L	0.18
1,1-Dichloropropene	ND	1.0	ug/L	0.19
Hexachlorobutadiene	ND	1.0	ug/L	0.18
4-Isopropyltoluene	ND	1.0	ug/L	0.20
Methyl tert-butyl ether	ND	5.0	ug/L	0.38
1,2,3-Trichlorobenzene	ND	1.0	ug/L	0.21
m-Xylene & p-Xylene	ND	2.0	ug/L	0.27
o-Xylene	ND	1.0	ug/L	0.15
Bromobenzene	ND	1.0	ug/L	0.17
Bromochloromethane	ND	1.0	ug/L	0.27
Naphthalene	ND	1.0	ug/L	0.50

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	101	(76 - 116)
1,2-Dichloroethane-d4	96	(59 - 129)
4-Bromofluorobenzene	94	(74 - 114)
Toluene-d8	104	(76 - 116)

**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.

**Cabrera Services**

**Client Sample ID: TB1**

**GC/MS Volatiles**

<b>Lot-Sample #....:</b> D4E190262-006	<b>Work Order #....:</b> GGJ2F1AA	<b>Matrix.....:</b> WATER
<b>Date Sampled....:</b> 05/18/04	<b>Date Received...:</b> 05/19/04	
<b>Prep Date.....:</b> 05/26/04	<b>Analysis Date...:</b> 05/26/04	
<b>Prep Batch #....:</b> 4152049	<b>Analysis Time...:</b> 13:01	
<b>Dilution Factor:</b> 1	<b>Initial Wgt/Vol:</b> 20 mL	<b>Final Wgt/Vol...:</b> 20 mL
	<b>Method.....:</b> SW846 8260B	

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	ND	10	ug/L	2.5
Benzene	ND	1.0	ug/L	0.17
Bromodichloromethane	ND	1.0	ug/L	0.20
Bromoform	ND	1.0	ug/L	0.23
Bromomethane	ND	2.0	ug/L	0.22
2-Butanone (MEK)	ND	5.0	ug/L	2.0
Carbon tetrachloride	ND	1.0	ug/L	0.20
Chlorobenzene	ND	1.0	ug/L	0.13
Chloroethane	ND	2.0	ug/L	0.18
Chloroform	ND	1.0	ug/L	0.17
Chloromethane	ND	2.0	ug/L	0.91
Dibromomethane	ND	1.0	ug/L	0.31
1,2-Dibromoethane (EDB)	ND	1.0	ug/L	0.18
1,2-Dichlorobenzene	ND	1.0	ug/L	0.15
1,3-Dichlorobenzene	ND	1.0	ug/L	0.13
1,4-Dichlorobenzene	ND	1.0	ug/L	0.16
Dichlorodifluoromethane	ND	2.0	ug/L	0.22
1,1-Dichloroethane	ND	1.0	ug/L	0.22
1,2-Dichloroethane	ND	1.0	ug/L	0.26
1,1-Dichloroethene	ND	1.0	ug/L	0.23
1,2-Dichloroethene	ND	1.0	ug/L	0.24
(total)				
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.14
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.15
1,2-Dichloropropane	ND	1.0	ug/L	0.18
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.19
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.20
Ethylbenzene	ND	1.0	ug/L	0.12
2-Hexanone	ND	5.0	ug/L	1.7
<b>Methylene chloride</b>	<b>0.74 J,B</b>	<b>5.0</b>	<b>ug/L</b>	<b>0.21</b>
4-Methyl-2-pentanone	ND	5.0	ug/L	0.98
Styrene	ND	1.0	ug/L	0.14
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	0.21
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.21
Tetrachloroethene	ND	1.0	ug/L	0.26
Toluene	ND	1.0	ug/L	0.15
1,2,4-Trichloro- benzene	ND	1.0	ug/L	0.21

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**Cabrera Services**

**Client Sample ID: TB1**

**GC/MS Volatiles**

**Lot-Sample #....: D4E190262-006    Work Order #....: GGJ2F1AA    Matrix.....: WATER**

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1,1-Trichloroethane	ND	1.0	ug/L	0.16
1,1,2-Trichloroethane	ND	1.0	ug/L	0.27
Trichloroethene	ND	1.0	ug/L	0.16
Trichlorofluoromethane	ND	2.0	ug/L	0.24
1,2,3-Trichloropropane	ND	1.0	ug/L	0.33
Vinyl chloride	ND	1.0	ug/L	0.19
Xylenes (total)	ND	2.0	ug/L	0.41
n-Butylbenzene	ND	1.0	ug/L	0.21
sec-Butylbenzene	ND	1.0	ug/L	0.23
Isopropylbenzene	ND	1.0	ug/L	0.17
1,2,4-Trimethylbenzene	ND	1.0	ug/L	0.15
1,3,5-Trimethylbenzene	ND	1.0	ug/L	0.16
n-Propylbenzene	ND	1.0	ug/L	0.17
tert-Butylbenzene	ND	1.0	ug/L	0.17
Dibromochloromethane	ND	1.0	ug/L	0.19
2-Chlorotoluene	ND	1.0	ug/L	0.17
4-Chlorotoluene	ND	1.0	ug/L	0.21
1,2-Dibromo-3-chloropropane (DBCP)	ND	2.0	ug/L	0.47
1,3-Dichloropropane	ND	1.0	ug/L	0.22
2,2-Dichloropropane	ND	5.0	ug/L	0.18
1,1-Dichloropropene	ND	1.0	ug/L	0.19
Hexachlorobutadiene	ND	1.0	ug/L	0.18
4-Isopropyltoluene	ND	1.0	ug/L	0.20
Methyl tert-butyl ether	ND	5.0	ug/L	0.38
1,2,3-Trichlorobenzene	ND	1.0	ug/L	0.21
m-Xylene & p-Xylene	ND	2.0	ug/L	0.27
o-Xylene	ND	1.0	ug/L	0.15
Bromobenzene	ND	1.0	ug/L	0.17
Bromochloromethane	ND	1.0	ug/L	0.27
Naphthalene	ND	1.0	ug/L	0.50

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	96	(76 - 116)
1,2-Dichloroethane-d4	87	(59 - 129)
4-Bromofluorobenzene	91	(74 - 114)
Toluene-d8	105	(76 - 116)

**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.

**Cabrera Services**

**Client Sample ID: 01-MW-01**

**GC/MS Semivolatiles**

<b>Lot-Sample #....:</b> D4E190262-001	<b>Work Order #....:</b> GGJX41AC	<b>Matrix.....:</b> WATER
<b>Date Sampled....:</b> 05/18/04 13:42	<b>Date Received...:</b> 05/19/04	
<b>Prep Date.....:</b> 05/21/04	<b>Analysis Date...:</b> 05/28/04	
<b>Prep Batch #....:</b> 4142151	<b>Analysis Time...:</b> 11:38	
<b>Dilution Factor:</b> 1	<b>Initial Wgt/Vol:</b> 953 mL	<b>Final Wgt/Vol...:</b> 1 mL
	<b>Method.....:</b> SW846 8270C	

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acenaphthene	ND	10	ug/L	0.60
Acenaphthylene	ND	10	ug/L	0.60
Acetophenone	ND	10	ug/L	2.0
2-Acetylaminofluorene	ND	100	ug/L	2.0
4-Aminobiphenyl	ND	50	ug/L	2.0
Aniline	ND	10	ug/L	4.0
Anthracene	ND	10	ug/L	3.0
Aramite	ND	20	ug/L	2.0
Benzo(a)anthracene	ND	10	ug/L	0.80
Benzo(b)fluoranthene	ND	10	ug/L	0.90
Benzo(k)fluoranthene	ND	10	ug/L	2.0
Benzo(ghi)perylene	ND	10	ug/L	1.0
Benzo(a)pyrene	ND	10	ug/L	0.80
Benzyl alcohol	ND	10	ug/L	1.0
bis(2-Chloroethoxy) methane	ND	10	ug/L	0.90
bis(2-Chloroethyl) - ether	ND	10	ug/L	3.0
bis(2-Ethylhexyl) phthalate	ND	10	ug/L	0.90
4-Bromophenyl phenyl ether	ND	10	ug/L	0.70
Butyl benzyl phthalate	ND	10	ug/L	1.0
4-Chloroaniline	ND	10	ug/L	3.0
Chlorobenzilate	ND	10	ug/L	2.0
4-Chloro-3-methylphenol	ND	10	ug/L	0.80
2-Chloronaphthalene	ND	10	ug/L	0.70
2-Chlorophenol	ND	10	ug/L	0.80
4-Chlorophenyl phenyl ether	ND	10	ug/L	0.60
Chrysene	ND	10	ug/L	0.80
Diallate	ND	20	ug/L	2.0
Dibenz(a,h)anthracene	ND	10	ug/L	0.90
Dibenzofuran	ND	10	ug/L	0.60
Di-n-butyl phthalate	ND	10	ug/L	0.80
1,2-Dichlorobenzene	ND	10	ug/L	0.80
1,3-Dichlorobenzene	ND	10	ug/L	0.80
1,4-Dichlorobenzene	ND	10	ug/L	1.0

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**Cabrera Services**

**Client Sample ID: 01-MW-01**

**GC/MS Semivolatiles**

**Lot-Sample #....: D4E190262-001    Work Order #....: GGJX41AC    Matrix.....: WATER**

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
3,3'-Dichlorobenzidine	ND	50	ug/L	8.0
2,4-Dichlorophenol	ND	10	ug/L	0.70
2,6-Dichlorophenol	ND	10	ug/L	2.0
Diethyl phthalate	ND	10	ug/L	0.70
Dimethoate	ND	20	ug/L	2.0
7,12-Dimethylbenz(a) - anthracene	ND	20	ug/L	3.0
3,3'-Dimethylbenzidine	ND	20	ug/L	4.0
2,4-Dimethylphenol	ND	10	ug/L	4.0
Dimethyl phthalate	ND	10	ug/L	0.80
1,3-Dinitrobenzene	ND	10	ug/L	2.0
4,6-Dinitro- 2-methylphenol	ND	50	ug/L	6.0
2,4-Dinitrophenol	ND	50	ug/L	6.0
2,4-Dinitrotoluene	ND	10	ug/L	1.0
2,6-Dinitrotoluene	ND	10	ug/L	0.80
Di-n-octyl phthalate	ND	10	ug/L	1.0
Diphenylamine	ND	10	ug/L	2.0
Disulfoton	ND	50	ug/L	2.0
Ethyl methanesulfonate	ND	10	ug/L	2.0
Fluoranthene	ND	10	ug/L	0.70
Fluorene	ND	10	ug/L	0.60
Hexachlorobenzene	ND	10	ug/L	0.80
Hexachlorobutadiene	ND	10	ug/L	1.0
Hexachlorocyclopenta- diene	ND	50	ug/L	5.0
Hexachloroethane	ND	10	ug/L	0.80
Hexachloropropene	ND	100	ug/L	1.0
Indeno(1,2,3-cd)pyrene	ND	10	ug/L	0.80
Isodrin	ND	10	ug/L	5.0
Isophorone	ND	10	ug/L	0.90
Isosafrole	ND	20	ug/L	3.0
Methapyrilene	ND	50	ug/L	20
3-Methylcholanthrene	ND	20	ug/L	1.0
Methyl methanesulfonate	ND	10	ug/L	2.0
2-Methylnaphthalene	ND	10	ug/L	0.80
Methyl parathion	ND	50	ug/L	2.0
2-Methylphenol	ND	10	ug/L	0.90
3-Methylphenol & 4-Methylphenol	ND	10	ug/L	0.80
Naphthalene	ND	10	ug/L	0.80
1,4-Naphthoquinone	ND	50	ug/L	2.0
1-Naphthylamine	ND	10	ug/L	1.0

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**Cabrera Services**

**Client Sample ID: 01-MW-01**

**GC/MS Semivolatiles**

**Lot-Sample #....: D4E190262-001    Work Order #....: GGJX41AC    Matrix.....: WATER**

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
2-Naphthylamine	ND	10	ug/L	1.0
2-Nitroaniline	ND	50	ug/L	0.90
3-Nitroaniline	ND	50	ug/L	0.90
4-Nitroaniline	ND	50	ug/L	6.0
Nitrobenzene	ND	10	ug/L	2.0
2-Nitrophenol	ND	10	ug/L	0.80
4-Nitrophenol	ND	50	ug/L	7.0
4-Nitroquinoline- 1-oxide	ND	100	ug/L	5.0
N-Nitrosodi-n-butylamine	ND	10	ug/L	2.0
N-Nitrosodiethylamine	ND	10	ug/L	2.0
N-Nitrosodimethylamine	ND	10	ug/L	0.80
N-Nitrosodiphenylamine	ND	10	ug/L	1.0
N-Nitrosodi-n-propyl- amine	ND	10	ug/L	0.70
N-Nitrosomethylethylamine	ND	10	ug/L	2.0
N-Nitrosomorpholine	ND	10	ug/L	2.0
N-Nitrosopiperidine	ND	10	ug/L	2.0
N-Nitrosopyrrolidine	ND	10	ug/L	2.0
5-Nitro-o-toluidine	ND	20	ug/L	2.0
Parathion	ND	50	ug/L	2.0
Pentachlorobenzene	ND	10	ug/L	2.0
Pentachloroethane	ND	50	ug/L	2.0
Pentachloronitrobenzene	ND	50	ug/L	2.0
Pentachlorophenol	ND	50	ug/L	5.0
Phenacetin	ND	20	ug/L	2.0
Phenanthrene	ND	10	ug/L	0.70
Phenol	ND	10	ug/L	0.90
Phorate	ND	50	ug/L	2.0
2-Picoline	ND	20	ug/L	3.0
Pronamide	ND	20	ug/L	2.0
Pyrene	ND	10	ug/L	0.80
Pyridine	ND	20	ug/L	10
1,2,4,5-Tetrachloro- benzene	ND	10	ug/L	2.0
2,3,4,6-Tetrachlorophenol	ND	50	ug/L	2.0
Thionazin	ND	10	ug/L	2.0
o-Toluidine	ND	10	ug/L	2.0
1,2,4-Trichloro- benzene	ND	10	ug/L	0.90
2,4,5-Trichloro- phenol	ND	10	ug/L	1.0
2,4,6-Trichloro- phenol	ND	10	ug/L	0.80

(Continued on next page)

Cabrera Services

Client Sample ID: 01-MW-01

GC/MS Semivolatiles

Lot-Sample #....: D4E190262-001    Work Order #....: GGJX41AC    Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
O,O,O-Triethylphosphoro- thioate	ND	50	ug/L	2.0
1,3,5-Trinitrobenzene	ND	50	ug/L	2.0

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	49	(32 - 116)
Phenol-d5	50	(40 - 111)
Nitrobenzene-d5	49 *	(53 - 107)
2-Fluorobiphenyl	50	(31 - 105)
2,4,6-Tribromophenol	59	(42 - 122)
Terphenyl-d14	62	(21 - 125)

**NOTE(S) :**

\* Surrogate recovery is outside stated control limits.

**Cabrera Services**

**01-MW-01**

**GC/MS Semivolatiles**

**Lot-Sample #:** D4E190262-001

**Work Order #:** GGJX41AC

**Matrix:** WATER

**MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS**

<u>PARAMETER</u>	<u>CAS #</u>	<u>ESTIMATED RESULT</u>	<u>RETENTION TIME</u>	<u>UNITS</u>
PPO	92-71-7	--	M	ug/L
POPOP	1806-34-4	--	M	ug/L
1,4-Dioxane	123-91-1	180	Q 2.998	ug/L

**NOTE(S) :**

Q: Result was quantitated against the response factor of a calibration standard.

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

**Cabrera Services**

**Client Sample ID: 01-MW-08**

**GC/MS Semivolatiles**

<b>Lot-Sample #....:</b> D4E190262-002	<b>Work Order #....:</b> GGJX61AC	<b>Matrix.....:</b> WATER
<b>Date Sampled....:</b> 05/18/04 15:30	<b>Date Received...:</b> 05/19/04	
<b>Prep Date.....:</b> 05/21/04	<b>Analysis Date...:</b> 05/28/04	
<b>Prep Batch #....:</b> 4142151	<b>Analysis Time...:</b> 12:04	
<b>Dilution Factor:</b> 1	<b>Initial Wgt/Vol:</b> 906 mL	<b>Final Wgt/Vol...:</b> 1 mL
	<b>Method.....:</b> SW846 8270C	

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acenaphthene	ND	10	ug/L	0.60
Acenaphthylene	ND	10	ug/L	0.60
Acetophenone	ND	10	ug/L	2.0
2-Acetylaminofluorene	ND	100	ug/L	2.0
4-Aminobiphenyl	ND	50	ug/L	2.0
Aniline	ND	10	ug/L	4.0
Anthracene	ND	10	ug/L	3.0
Aramite	ND	20	ug/L	2.0
Benzo(a)anthracene	ND	10	ug/L	0.80
Benzo(b)fluoranthene	ND	10	ug/L	0.90
Benzo(k)fluoranthene	ND	10	ug/L	2.0
Benzo(ghi)perylene	ND	10	ug/L	1.0
Benzo(a)pyrene	ND	10	ug/L	0.80
Benzyl alcohol	ND	10	ug/L	1.0
bis(2-Chloroethoxy) methane	ND	10	ug/L	0.90
bis(2-Chloroethyl) - ether	ND	10	ug/L	3.0
bis(2-Ethylhexyl) phthalate	ND	10	ug/L	0.90
4-Bromophenyl phenyl ether	ND	10	ug/L	0.70
Butyl benzyl phthalate	ND	10	ug/L	1.0
4-Chloroaniline	ND	10	ug/L	3.0
Chlorobenzilate	ND	10	ug/L	2.0
4-Chloro-3-methylphenol	ND	10	ug/L	0.80
2-Chloronaphthalene	ND	10	ug/L	0.70
2-Chlorophenol	ND	10	ug/L	0.80
4-Chlorophenyl phenyl ether	ND	10	ug/L	0.60
Chrysene	ND	10	ug/L	0.80
Diallate	ND	20	ug/L	2.0
Dibenz(a,h)anthracene	ND	10	ug/L	0.90
Dibenzofuran	ND	10	ug/L	0.60
Di-n-butyl phthalate	ND	10	ug/L	0.80
1,2-Dichlorobenzene	ND	10	ug/L	0.80
1,3-Dichlorobenzene	ND	10	ug/L	0.80
1,4-Dichlorobenzene	ND	10	ug/L	1.0

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**Cabrera Services**

**Client Sample ID: 01-MW-08**

**GC/MS Semivolatiles**

**Lot-Sample #....: D4E190262-002    Work Order #....: GGJX61AC    Matrix.....: WATER**

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
3,3'-Dichlorobenzidine	ND	50	ug/L	8.0
2,4-Dichlorophenol	ND	10	ug/L	0.70
2,6-Dichlorophenol	ND	10	ug/L	2.0
Diethyl phthalate	ND	10	ug/L	0.70
Dimethoate	ND	20	ug/L	2.0
7,12-Dimethylbenz(a) - anthracene	ND	20	ug/L	3.0
3,3'-Dimethylbenzidine	ND	20	ug/L	4.0
2,4-Dimethylphenol	ND	10	ug/L	4.0
Dimethyl phthalate	ND	10	ug/L	0.80
1,3-Dinitrobenzene	ND	10	ug/L	2.0
4,6-Dinitro- 2-methylphenol	ND	50	ug/L	6.0
2,4-Dinitrophenol	ND	50	ug/L	6.0
2,4-Dinitrotoluene	ND	10	ug/L	1.0
2,6-Dinitrotoluene	ND	10	ug/L	0.80
Di-n-octyl phthalate	ND	10	ug/L	1.0
Diphenylamine	ND	10	ug/L	2.0
Disulfoton	ND	50	ug/L	2.0
Ethyl methanesulfonate	ND	10	ug/L	2.0
Fluoranthene	ND	10	ug/L	0.70
Fluorene	ND	10	ug/L	0.60
Hexachlorobenzene	ND	10	ug/L	0.80
Hexachlorobutadiene	ND	10	ug/L	1.0
Hexachlorocyclopenta- diene	ND	50	ug/L	5.0
Hexachloroethane	ND	10	ug/L	0.80
Hexachloropropene	ND	100	ug/L	1.0
Indeno(1,2,3-cd)pyrene	ND	10	ug/L	0.80
Isodrin	ND	10	ug/L	5.0
Isophorone	ND	10	ug/L	0.90
Isosafrole	ND	20	ug/L	3.0
Methapyrilene	ND	50	ug/L	20
3-Methylcholanthrene	ND	20	ug/L	1.0
Methyl methanesulfonate	ND	10	ug/L	2.0
2-Methylnaphthalene	ND	10	ug/L	0.80
Methyl parathion	ND	50	ug/L	2.0
2-Methylphenol	ND	10	ug/L	0.90
3-Methylphenol & 4-Methylphenol	ND	10	ug/L	0.80
Naphthalene	ND	10	ug/L	0.80
1,4-Naphthoquinone	ND	50	ug/L	2.0
1-Naphthylamine	ND	10	ug/L	1.0

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**Cabrera Services**

**Client Sample ID: 01-MW-08**

**GC/MS Semivolatiles**

**Lot-Sample #....: D4E190262-002    Work Order #....: GGJX61AC    Matrix.....: WATER**

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
2-Naphthylamine	ND	10	ug/L	1.0
2-Nitroaniline	ND	50	ug/L	0.90
3-Nitroaniline	ND	50	ug/L	0.90
4-Nitroaniline	ND	50	ug/L	6.0
Nitrobenzene	ND	10	ug/L	2.0
2-Nitrophenol	ND	10	ug/L	0.80
4-Nitrophenol	ND	50	ug/L	7.0
4-Nitroquinoline- 1-oxide	ND	100	ug/L	5.0
N-Nitrosodi-n-butylamine	ND	10	ug/L	2.0
N-Nitrosodiethylamine	ND	10	ug/L	2.0
N-Nitrosodimethylamine	ND	10	ug/L	0.80
N-Nitrosodiphenylamine	ND	10	ug/L	1.0
N-Nitrosodi-n-propyl- amine	ND	10	ug/L	0.70
N-Nitrosomethylethylamine	ND	10	ug/L	2.0
N-Nitrosomorpholine	ND	10	ug/L	2.0
N-Nitrosopiperidine	ND	10	ug/L	2.0
N-Nitrosopyrrolidine	ND	10	ug/L	2.0
5-Nitro-o-toluidine	ND	20	ug/L	2.0
Parathion	ND	50	ug/L	2.0
Pentachlorobenzene	ND	10	ug/L	2.0
Pentachloroethane	ND	50	ug/L	2.0
Pentachloronitrobenzene	ND	50	ug/L	2.0
Pentachlorophenol	ND	50	ug/L	5.0
Phenacetin	ND	20	ug/L	2.0
Phenanthrene	ND	10	ug/L	0.70
Phenol	ND	10	ug/L	0.90
Phorate	ND	50	ug/L	2.0
2-Picoline	ND	20	ug/L	3.0
Pronamide	ND	20	ug/L	2.0
Pyrene	ND	10	ug/L	0.80
Pyridine	ND	20	ug/L	10
1,2,4,5-Tetrachloro- benzene	ND	10	ug/L	2.0
2,3,4,6-Tetrachlorophenol	ND	50	ug/L	2.0
Thionazin	ND	10	ug/L	2.0
o-Toluidine	ND	10	ug/L	2.0
1,2,4-Trichloro- benzene	ND	10	ug/L	0.90
2,4,5-Trichloro- phenol	ND	10	ug/L	1.0
2,4,6-Trichloro- phenol	ND	10	ug/L	0.80

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Cabrera Services

Client Sample ID: 01-MW-08

GC/MS Semivolatiles

Lot-Sample #....: D4E190262-002 Work Order #....: GGJX61AC Matrix.....: WATER

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
O,O,O-Triethylphosphoro- thioate	ND	50	ug/L	2.0
1,3,5-Trinitrobenzene	ND	50	ug/L	2.0

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	64	(32 - 116)
Phenol-d5	65	(40 - 111)
Nitrobenzene-d5	63	(53 - 107)
2-Fluorobiphenyl	58	(31 - 105)
2,4,6-Tribromophenol	63	(42 - 122)
Terphenyl-d14	66	(21 - 125)

**Cabrera Services**

**01-MW-08**

**GC/MS Semivolatiles**

**Lot-Sample #:** D4E190262-002

**Work Order #:** GGJX61AC

**Matrix:** WATER

**MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS**

<u>PARAMETER</u>	<u>CAS #</u>	<u>ESTIMATED RESULT</u>	<u>RETENTION TIME</u>	<u>UNITS</u>
PPO	92-71-7	--	M	ug/L
POPOP	1806-34-4	--	M	ug/L

**NOTE(S) :**

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



**Cabrera Services**

**Client Sample ID: 01-MW-09**

**GC/MS Semivolatiles**

<b>Lot-Sample #....:</b> D4E190262-004	<b>Work Order #....:</b> GGJX91AC	<b>Matrix.....:</b> WATER
<b>Date Sampled....:</b> 05/18/04 17:00	<b>Date Received...:</b> 05/19/04	
<b>Prep Date.....:</b> 05/21/04	<b>Analysis Date...:</b> 05/28/04	
<b>Prep Batch #....:</b> 4142151	<b>Analysis Time...:</b> 12:31	
<b>Dilution Factor:</b> 1	<b>Initial Wgt/Vol:</b> 976 mL	<b>Final Wgt/Vol...:</b> 1 mL
	<b>Method.....:</b> SW846 8270C	

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acenaphthene	ND	10	ug/L	0.60
Acenaphthylene	ND	10	ug/L	0.60
Acetophenone	ND	10	ug/L	2.0
2-Acetylaminofluorene	ND	100	ug/L	2.0
4-Aminobiphenyl	ND	50	ug/L	2.0
Aniline	ND	10	ug/L	4.0
Anthracene	ND	10	ug/L	3.0
Aramite	ND	20	ug/L	2.0
Benzo(a)anthracene	ND	10	ug/L	0.80
Benzo(b)fluoranthene	ND	10	ug/L	0.90
Benzo(k)fluoranthene	ND	10	ug/L	2.0
Benzo(ghi)perylene	ND	10	ug/L	1.0
Benzo(a)pyrene	ND	10	ug/L	0.80
Benzyl alcohol	ND	10	ug/L	1.0
bis(2-Chloroethoxy) methane	ND	10	ug/L	0.90
bis(2-Chloroethyl) - ether	ND	10	ug/L	3.0
bis(2-Ethylhexyl) phthalate	ND	10	ug/L	0.90
4-Bromophenyl phenyl ether	ND	10	ug/L	0.70
Butyl benzyl phthalate	ND	10	ug/L	1.0
4-Chloroaniline	ND	10	ug/L	3.0
Chlorobenzilate	ND	10	ug/L	2.0
4-Chloro-3-methylphenol	ND	10	ug/L	0.80
2-Chloronaphthalene	ND	10	ug/L	0.70
2-Chlorophenol	ND	10	ug/L	0.80
4-Chlorophenyl phenyl ether	ND	10	ug/L	0.60
Chrysene	ND	10	ug/L	0.80
Diallate	ND	20	ug/L	2.0
Dibenz(a,h)anthracene	ND	10	ug/L	0.90
Dibenzofuran	ND	10	ug/L	0.60
Di-n-butyl phthalate	ND	10	ug/L	0.80
1,2-Dichlorobenzene	ND	10	ug/L	0.80
1,3-Dichlorobenzene	ND	10	ug/L	0.80
1,4-Dichlorobenzene	ND	10	ug/L	1.0

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**Cabrera Services**

**Client Sample ID: 01-MW-09**

**GC/MS Semivolatiles**

**Lot-Sample #....: D4E190262-004    Work Order #....: GGJX91AC    Matrix.....: WATER**

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
3,3'-Dichlorobenzidine	ND	50	ug/L	8.0
2,4-Dichlorophenol	ND	10	ug/L	0.70
2,6-Dichlorophenol	ND	10	ug/L	2.0
Diethyl phthalate	ND	10	ug/L	0.70
Dimethoate	ND	20	ug/L	2.0
7,12-Dimethylbenz(a) - anthracene	ND	20	ug/L	3.0
3,3'-Dimethylbenzidine	ND	20	ug/L	4.0
2,4-Dimethylphenol	ND	10	ug/L	4.0
Dimethyl phthalate	ND	10	ug/L	0.80
1,3-Dinitrobenzene	ND	10	ug/L	2.0
4,6-Dinitro- 2-methylphenol	ND	50	ug/L	6.0
2,4-Dinitrophenol	ND	50	ug/L	6.0
2,4-Dinitrotoluene	ND	10	ug/L	1.0
2,6-Dinitrotoluene	ND	10	ug/L	0.80
Di-n-octyl phthalate	ND	10	ug/L	1.0
Diphenylamine	ND	10	ug/L	2.0
Disulfoton	ND	50	ug/L	2.0
Ethyl methanesulfonate	ND	10	ug/L	2.0
Fluoranthene	ND	10	ug/L	0.70
Fluorene	ND	10	ug/L	0.60
Hexachlorobenzene	ND	10	ug/L	0.80
Hexachlorobutadiene	ND	10	ug/L	1.0
Hexachlorocyclopenta- diene	ND	50	ug/L	5.0
Hexachloroethane	ND	10	ug/L	0.80
Hexachloropropene	ND	100	ug/L	1.0
Indeno(1,2,3-cd)pyrene	ND	10	ug/L	0.80
Isodrin	ND	10	ug/L	5.0
Isophorone	ND	10	ug/L	0.90
Isosafrole	ND	20	ug/L	3.0
Methapyrilene	ND	50	ug/L	20
3-Methylcholanthrene	ND	20	ug/L	1.0
Methyl methanesulfonate	ND	10	ug/L	2.0
2-Methylnaphthalene	ND	10	ug/L	0.80
Methyl parathion	ND	50	ug/L	2.0
2-Methylphenol	ND	10	ug/L	0.90
3-Methylphenol & 4-Methylphenol	ND	10	ug/L	0.80
Naphthalene	ND	10	ug/L	0.80
1,4-Naphthoquinone	ND	50	ug/L	2.0
1-Naphthylamine	ND	10	ug/L	1.0

(Continued on next page)

**Cabrera Services**

**Client Sample ID: 01-MW-09**

**GC/MS Semivolatiles**

**Lot-Sample #....: D4E190262-004    Work Order #....: GGJX91AC    Matrix.....: WATER**

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
2-Naphthylamine	ND	10	ug/L	1.0
2-Nitroaniline	ND	50	ug/L	0.90
3-Nitroaniline	ND	50	ug/L	0.90
4-Nitroaniline	ND	50	ug/L	6.0
Nitrobenzene	ND	10	ug/L	2.0
2-Nitrophenol	ND	10	ug/L	0.80
4-Nitrophenol	ND	50	ug/L	7.0
4-Nitroquinoline- 1-oxide	ND	100	ug/L	5.0
N-Nitrosodi-n-butylamine	ND	10	ug/L	2.0
N-Nitrosodiethylamine	ND	10	ug/L	2.0
N-Nitrosodimethylamine	ND	10	ug/L	0.80
N-Nitrosodiphenylamine	ND	10	ug/L	1.0
N-Nitrosodi-n-propyl- amine	ND	10	ug/L	0.70
N-Nitrosomethylethylamine	ND	10	ug/L	2.0
N-Nitrosomorpholine	ND	10	ug/L	2.0
N-Nitrosopiperidine	ND	10	ug/L	2.0
N-Nitrosopyrrolidine	ND	10	ug/L	2.0
5-Nitro-o-toluidine	ND	20	ug/L	2.0
Parathion	ND	50	ug/L	2.0
Pentachlorobenzene	ND	10	ug/L	2.0
Pentachloroethane	ND	50	ug/L	2.0
Pentachloronitrobenzene	ND	50	ug/L	2.0
Pentachlorophenol	ND	50	ug/L	5.0
Phenacetin	ND	20	ug/L	2.0
Phenanthrene	ND	10	ug/L	0.70
Phenol	ND	10	ug/L	0.90
Phorate	ND	50	ug/L	2.0
2-Picoline	ND	20	ug/L	3.0
Pronamide	ND	20	ug/L	2.0
Pyrene	ND	10	ug/L	0.80
Pyridine	ND	20	ug/L	10
1,2,4,5-Tetrachloro- benzene	ND	10	ug/L	2.0
2,3,4,6-Tetrachlorophenol	ND	50	ug/L	2.0
Thionazin	ND	10	ug/L	2.0
o-Toluidine	ND	10	ug/L	2.0
1,2,4-Trichloro- benzene	ND	10	ug/L	0.90
2,4,5-Trichloro- phenol	ND	10	ug/L	1.0
2,4,6-Trichloro- phenol	ND	10	ug/L	0.80

(Continued on next page)

**Cabrera Services**

**Client Sample ID: 01-MW-09**

**GC/MS Semivolatiles**

**Lot-Sample #....: D4E190262-004    Work Order #....: GGJX91AC    Matrix.....: WATER**

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>MDL</u>
O,O,O-Triethylphosphoro- thioate	ND	50	ug/L	2.0
1,3,5-Trinitrobenzene	ND	50	ug/L	2.0

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
2-Fluorophenol	63	(32 - 116)
Phenol-d5	63	(40 - 111)
Nitrobenzene-d5	60	(53 - 107)
2-Fluorobiphenyl	53	(31 - 105)
2,4,6-Tribromophenol	64	(42 - 122)
Terphenyl-d14	64	(21 - 125)

Cabrera Services

01-MW-09

GC/MS Semivolatiles

Lot-Sample #: D4E190262-004

Work Order #: GGJX91AC

Matrix: WATER

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT	RETENTION TIME	UNITS
PPO	92-71-7	--	M	ug/L
POPOP	1806-34-4	--	M	ug/L
1,4-Dioxane	123-91-1	250	Q 3	ug/L

**NOTE(S) :**

Q: Result was quantitated against the response factor of a calibration standard.

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

# QC DATA ASSOCIATION SUMMARY

D4E190262

Sample Preparation and Analysis Control Numbers

<u>SAMPLE#</u>	<u>MATRIX</u>	<u>ANALYTICAL METHOD</u>	<u>LEACH BATCH #</u>	<u>PREP BATCH #</u>	<u>MS RUN#</u>
001	WATER	SW846 8260B		4152049	4152013
	WATER	SW846 8270C		4142151	
	WATER	EPA 906.0 MOD		4149150	4149094
	WATER	DOE STL-RC-0055		4154153	4154074
	WATER	EERF C-01-1		4155582	4155386
002	WATER	SW846 8260B		4152049	4152013
	WATER	SW846 8270C		4142151	
	WATER	EPA 906.0 MOD		4149150	4149094
	WATER	DOE STL-RC-0055		4154153	4154074
	WATER	EERF C-01-1		4155582	4155386
003	WATER	SW846 8260B		4152049	4152013
	WATER	DOE STL-RC-0055		4154153	4154074
004	WATER	SW846 8260B		4152049	4152013
	WATER	SW846 8270C		4142151	
	WATER	EPA 906.0 MOD		4149150	4149094
	WATER	DOE STL-RC-0055		4154153	4154074
	WATER	EERF C-01-1		4155582	4155386
005	WATER	SW846 8260B		4152049	4152013
	WATER	DOE STL-RC-0055		4154153	4154074
006	WATER	SW846 8260B		4152049	4152013

# METHOD BLANK REPORT

## Severn Trent Laboratories - Radiochemistry

Client Lot ID: D4E190262  
Matrix: WATER

					Lab Sample ID			
Parameter	Result	Qual	Total Uncert. (2 $\sigma$ +/-)	MDC	Prep Date	Analysis Date	Batch #	Yld %
TRITIUM (Distill) by EPA 906.0 MOD					pCi/L	906.0 MOD	F4E280000-150B	
Tritium	8	U	110	270	05/28/04	05/29/04	4149150	
Ni-59 & Ni-63 by Liquid Scint. Spec.					pCi/L	STL-RC-0055	F4F020000-153B	
Nickel 63	-11	U	29	23	06/02/04	06/04/04	4154153	83
Carbon 14 by EERF C-01-1					pCi/L	C-01-1	F4F030000-582B	
Carbon 14	-8.8	U	-8.3		06/03/04	06/05/04	4155582	

### NOTE(S)

Data are incomplete without the case narrative.

MDC is determined using instrument performance only

Bold results are greater than the MDC

U Result is less than the sample detection limit.

# Laboratory Control Sample Report

## Severn Trent Laboratories - Radiochemistry

Client Lot ID: D4E190262  
Matrix: WATER

Parameter	Spike Amount	Result	Total Uncert. (2 $\sigma$ +/-)	MDC	% Yld	% Rec	Lab Sample ID QC Control Limits
<b>TRITIUM (Distill) by EPA 906.0 MOD</b>							
		pCi/L		906.0 MOD			F4E280000-150C
Tritium	8190	8400	1000	300		103	(81 - 115)
	Batch #:	4149150		Analysis Date:	05/29/04		
<b>Ni-59 &amp; Ni-63 by Liquid Scint. Spec.</b>							
		pCi/L		STL-RC-0055			F4F020000-153C
Nickel 59	2050	1950	200	10	94	95	(70 - 130)
Nickel 63	1930	1920	200	20	94	99	(70 - 130)
	Batch #:	4154153		Analysis Date:	06/04/04		
<b>Carbon 14 by EERF C-01-1</b>							
		pCi/L		C-01-1			F4F030000-582C
Carbon 14	10500	7860	790			75	(70 - 130)
	Batch #:	4155582		Analysis Date:	06/05/04		

### NOTE(S)

MDC is determined by instrument performance only

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

STL Denver



# MATRIX SPIKE REPORT

## Severn Trent Laboratories - Radiochemistry

Client Lot Id: D4E210325 Date Sampled: 05/20/04  
Matrix: WATER Date Received: 05/21/04

Parameter	Spike Amount	Spike Result	Total Uncert. (2σ +/-)	Spike Yld.	Sample Result	Total Uncert. (2 σ +/-)	QC Sample ID		QC Control Limits
							%YLD	%REC	
TRITIUM (Distill) by EPA 906.0 MOD			pCi/L		906.0 MOD		D4E210325-008		
Tritium	8190	8600	1100		-80	140		106	(70 - 130)
	Batch #:	4149150		Analysis Date:	05/29/04				

### NOTE(S)

Data are incomplete without the case narrative.

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

# MATRIX SPIKE/MATRIX SPIKE DUPLICATE REPORT

## Severn Trent Laboratories - Radiochemistry

Client Lot ID: D4E210325  
Matrix: WATER

Date Sampled: 05/19/04 1025  
Date Received: 05/21/04 0915

Parameter	Spike Amount	SPIKE Result	Total Uncert.	Spike Yld	SAMPLE Result	Total Uncert.	QC Sample ID			
			(2 σ +/-)			(2 σ +/-)	% Yld	%Rec	QC Control Limits	
Ni-59 & Ni-63 by Liquid Sci			pCi/L	STL-RC-0055			D4E210325-001			
Nickel 63	1930	2000	210	81	-11	U	28	84	104	(70 - 130)
	Spk2 1930	1750	180	91	-11	U	28	84	91	(70 - 130)
Precision:								13	%RPD	
Batch #: 4154074			Analysis date:		06/04/04					

### NOTE(S)

Data are incomplete without the case narrative.

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

U Result is less than the sample detection limit.

STL Denver

# **DUPLICATE EVALUATION REPORT**

## **Severn Trent Laboratories - Radiochemistry**

Client Lot ID: D4E190262  
Matrix: WATER

Date Sampled: 05/18/04  
Date Received: 05/19/04

Parameter	SAMPLE Result		Total Uncert. (2σ +/-)	% Yld	DUPLICATE Result	Total Uncert. (2σ +/-)	% Yld	QC Sample ID Precision
<b>Carbon 14 by EERF C-01-1</b>					<b>C-01-1</b>			<b>D4E190262-001</b>
Carbon 14	-8.8 U		-8.3		-5.3 U	-7.5		-51 %RPD
	Batch #:	4155582 (Sample)			4155582 (Duplicate)			
<b>TRITIUM (Distill) by EPA 906.0 MOD</b>					<b>906.0 MOD</b>			<b>D4E210325-009</b>
Tritium	370 J		190		370 J	190		0.2 %RPD
	Batch #:	4149150 (Sample)			4149150 (Duplicate)			

### **NOTE(S)**

Data are incomplete without the case narrative.  
Calculations are performed before rounding to avoid round-off error in calculated results

J Result is greater than sample detection limit but less than stated reporting limit.

U Result is less than the sample detection limit.

STL Denver

# METHOD BLANK REPORT

## GC/MS Volatiles

Client Lot #...: D4E190262  
MB Lot-Sample #: D4E310000-049

Work Order #...: GHDC01AA

Matrix.....: WATER

Analysis Date...: 05/26/04

Prep Date.....: 05/26/04

Analysis Time...: 07:52

Dilution Factor: 1

Prep Batch #...: 4152049

Final Wgt/Vol...: 20 mL

Initial Wgt/Vol: 20 mL

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	METHOD
Acetone	ND	10	ug/L	SW846 8260B
Benzene	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 (MEK)	ND	5.0	ug/L	SW846 8260B
Carbon tetrachloride	ND	1.0	ug/L	SW846 8260B
Chlorobenzene	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
Dibromomethane	ND	1.0	ug/L	SW846 8260B
1,2-Dibromoethane (EDB)	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
1,1-Dichloroethene	ND	1.0	ug/L	SW846 8260B
1,2-Dichloroethene	ND	1.0	ug/L	SW846 8260B
(total)				
cis-1,2-Dichloroethene	ND	1.0	ug/L	SW846 8260B
trans-1,2-Dichloroethene	ND	1.0	ug/L	SW846 8260B
1,2-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
Ethylbenzene	ND	1.0	ug/L	SW846 8260B
2-Hexanone	ND	5.0	ug/L	SW846 8260B
<b>Methylene chloride</b>	<b>0.23 J</b>	<b>5.0</b>	<b>ug/L</b>	<b>SW846 8260B</b>
4-Methyl-2-pentanone	ND	5.0	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
Toluene	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

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# METHOD BLANK REPORT

## GC/MS Volatiles

Client Lot #....: D4E190262

Work Order #....: GHDC01AA

Matrix.....: WATER

PARAMETER	RESULT	REPORTING			METHOD
		LIMIT	UNITS		
Trichlorofluoromethane	ND	2.0	ug/L		SW846 8260B
1,2,3-Trichloropropane	ND	1.0	ug/L		SW846 8260B
Vinyl chloride	ND	1.0	ug/L		SW846 8260B
Xylenes (total)	ND	2.0	ug/L		SW846 8260B
n-Butylbenzene	ND	1.0	ug/L		SW846 8260B
sec-Butylbenzene	ND	1.0	ug/L		SW846 8260B
Isopropylbenzene	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
n-Propylbenzene	ND	1.0	ug/L		SW846 8260B
tert-Butylbenzene	ND	1.0	ug/L		SW846 8260B
Dibromochloromethane	ND	1.0	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-chloropropane (DBCP)	ND	2.0	ug/L		SW846 8260B
1,3-Dichloropropane	ND	1.0	ug/L		SW846 8260B
2,2-Dichloropropane	ND	5.0	ug/L		SW846 8260B
1,1-Dichloropropene	ND	1.0	ug/L		SW846 8260B
Hexachlorobutadiene	ND	1.0	ug/L		SW846 8260B
4-Isopropyltoluene	ND	1.0	ug/L		SW846 8260B
Methyl tert-butyl ether	ND	5.0	ug/L		SW846 8260B
1,2,3-Trichlorobenzene	ND	1.0	ug/L		SW846 8260B
m-Xylene & p-Xylene	ND	2.0	ug/L		SW846 8260B
o-Xylene	ND	1.0	ug/L		SW846 8260B
Bromobenzene	ND	1.0	ug/L		SW846 8260B
Bromochloromethane	ND	1.0	ug/L		SW846 8260B
Naphthalene	ND	1.0	ug/L		SW846 8260B

SURROGATE	PERCENT	RECOVERY
	RECOVERY	LIMITS
Dibromofluoromethane	98	(76 - 116)
1,2-Dichloroethane-d4	97	(59 - 129)
4-Bromofluorobenzene	98	(74 - 114)
Toluene-d8	106	(76 - 116)

### NOTE(S) :

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

J Estimated result. Result is less than RL.

# LABORATORY CONTROL SAMPLE EVALUATION REPORT

## GC/MS Volatiles

Client Lot #....: D4E190262      Work Order #....: GHDC01AC      Matrix.....: WATER  
 LCS Lot-Sample#: D4E310000-049  
 Prep Date.....: 05/26/04      Analysis Date...: 05/26/04  
 Prep Batch #....: 4152049      Analysis Time...: 07:32  
 Dilution Factor: 1      Final Wgt/Vol...: 20 mL  
 Initial Wgt/Vol: 20 mL

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>METHOD</u>
Benzene	95	(75 - 116)	SW846 8260B
Chlorobenzene	93	(77 - 117)	SW846 8260B
1,1-Dichloroethene	108	(67 - 125)	SW846 8260B
Toluene	97	(74 - 115)	SW846 8260B
Trichloroethene	94	(80 - 123)	SW846 8260B

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
Dibromofluoromethane	99	(76 - 116)
1,2-Dichloroethane-d4	95	(59 - 129)
4-Bromofluorobenzene	99	(74 - 114)
Toluene-d8	107	(76 - 116)

### 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 #....: D4E190262      Work Order #....: GHDC01AC      Matrix.....: WATER  
 LCS Lot-Sample#: D4E310000-049  
 Prep Date.....: 05/26/04      Analysis Date...: 05/26/04  
 Prep Batch #....: 4152049      Analysis Time...: 07:32  
 Dilution Factor: 1      Final Wgt/Vol...: 20 mL  
 Initial Wgt/Vol: 20 mL

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
Benzene	10.0	9.47	ug/L	95	SW846 8260B
Chlorobenzene	10.0	9.33	ug/L	93	SW846 8260B
1,1-Dichloroethene	10.0	10.8	ug/L	108	SW846 8260B
Toluene	10.0	9.69	ug/L	97	SW846 8260B
Trichloroethene	10.0	9.41	ug/L	94	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	99	(76 - 116)
1,2-Dichloroethane-d4	95	(59 - 129)
4-Bromofluorobenzene	99	(74 - 114)
Toluene-d8	107	(76 - 116)

### 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 #....: D4E190262      Work Order #....: GGA9C1AD-MS      Matrix.....: WATER  
 MS Lot-Sample #: D4E140372-004      GGA9C1AE-MSD  
 Date Sampled....: 05/13/04 13:27      Date Received...: 05/14/04  
 Prep Date.....: 05/26/04      Analysis Date...: 05/26/04  
 Prep Batch #....: 4152049      Analysis Time...: 09:21  
 Dilution Factor: 2000      Initial Wgt/Vol: 0.01 mL      Final Wgt/Vol...: 20 mL

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Benzene	92	(75 - 116)			SW846 8260B
	94	(75 - 116)	1.7	(0-20)	SW846 8260B
Chlorobenzene	81	(77 - 117)			SW846 8260B
	97	(77 - 117)	2.9	(0-20)	SW846 8260B
1,1-Dichloroethene	108	(67 - 125)			SW846 8260B
	103	(67 - 125)	4.4	(0-20)	SW846 8260B
Toluene	95	(74 - 115)			SW846 8260B
	97	(74 - 115)	2.2	(0-20)	SW846 8260B
Trichloroethene	91	(80 - 123)			SW846 8260B
	91	(80 - 123)	0.81	(0-20)	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	95	(76 - 116)
	97	(76 - 116)
1,2-Dichloroethane-d4	94	(59 - 129)
	95	(59 - 129)
4-Bromofluorobenzene	93	(74 - 114)
	97	(74 - 114)
Toluene-d8	102	(76 - 116)
	106	(76 - 116)

### 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 #...: D4E190262      Work Order #...: GGA9C1AD-MS      Matrix.....: WATER  
 MS Lot-Sample #: D4E140372-004      GGA9C1AE-MSD  
 Date Sampled...: 05/13/04 13:27      Date Received...: 05/14/04  
 Prep Date.....: 05/26/04      Analysis Date...: 05/26/04  
 Prep Batch #...: 4152049      Analysis Time...: 09:21  
 Dilution Factor: 2000      Initial Wgt/Vol: 0.01 mL      Final Wgt/Vol...: 20 mL

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
Benzene	ND	20000	18400	ug/L	92		SW846 8260B
	ND	20000	18700	ug/L	94	1.7	SW846 8260B
Chlorobenzene	89000	20000	105000	ug/L	81		SW846 8260B
	89000	20000	108000	ug/L	97	2.9	SW846 8260B
1,1-Dichloroethene	ND	20000	21500	ug/L	108		SW846 8260B
	ND	20000	20600	ug/L	103	4.4	SW846 8260B
Toluene	ND	20000	19000	ug/L	95		SW846 8260B
	ND	20000	19400	ug/L	97	2.2	SW846 8260B
Trichloroethene	ND	20000	18100	ug/L	91		SW846 8260B
	ND	20000	18300	ug/L	91	0.81	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	95	(76 - 116)
	97	(76 - 116)
1,2-Dichloroethane-d4	94	(59 - 129)
	95	(59 - 129)
4-Bromofluorobenzene	93	(74 - 114)
	97	(74 - 114)
Toluene-d8	102	(76 - 116)
	106	(76 - 116)

### NOTE(S) :

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

Bold print denotes control parameters

# METHOD BLANK REPORT

## GC/MS Semivolatiles

Client Lot #...: D4E190262  
MB Lot-Sample #: D4E210000-151

Work Order #...: GGQDN1AA

Matrix.....: WATER

Analysis Date...: 05/28/04  
Dilution Factor: 1

Prep Date.....: 05/21/04

Prep Batch #...: 4142151

Analysis Time...: 09:14

Final Wgt/Vol...: 1 mL

Initial Wgt/Vol: 1000 mL

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	METHOD
Acenaphthene	ND	10	ug/L	SW846 8270C
Acenaphthylene	ND	10	ug/L	SW846 8270C
Acetophenone	ND	10	ug/L	SW846 8270C
2-Acetylaminofluorene	ND	100	ug/L	SW846 8270C
4-Aminobiphenyl	ND	50	ug/L	SW846 8270C
Aniline	ND	10	ug/L	SW846 8270C
Anthracene	ND	10	ug/L	SW846 8270C
Aramite	ND	20	ug/L	SW846 8270C
Benzo(a)anthracene	ND	10	ug/L	SW846 8270C
Benzo(b)fluoranthene	ND	10	ug/L	SW846 8270C
Benzo(k)fluoranthene	ND	10	ug/L	SW846 8270C
Benzo(ghi)perylene	ND	10	ug/L	SW846 8270C
Benzo(a)pyrene	ND	10	ug/L	SW846 8270C
Benzyl alcohol	ND	10	ug/L	SW846 8270C
bis(2-Chloroethoxy) methane	ND	10	ug/L	SW846 8270C
bis(2-Chloroethyl) - ether	ND	10	ug/L	SW846 8270C
bis(2-Ethylhexyl) phthalate	ND	10	ug/L	SW846 8270C
4-Bromophenyl phenyl ether	ND	10	ug/L	SW846 8270C
Butyl benzyl phthalate	ND	10	ug/L	SW846 8270C
4-Chloroaniline	ND	10	ug/L	SW846 8270C
Chlorobenzilate	ND	10	ug/L	SW846 8270C
4-Chloro-3-methylphenol	ND	10	ug/L	SW846 8270C
2-Chloronaphthalene	ND	10	ug/L	SW846 8270C
2-Chlorophenol	ND	10	ug/L	SW846 8270C
4-Chlorophenyl phenyl ether	ND	10	ug/L	SW846 8270C
Chrysene	ND	10	ug/L	SW846 8270C
Diallate	ND	20	ug/L	SW846 8270C
Dibenz(a,h)anthracene	ND	10	ug/L	SW846 8270C
Dibenzofuran	ND	10	ug/L	SW846 8270C
Di-n-butyl phthalate	ND	10	ug/L	SW846 8270C
1,2-Dichlorobenzene	ND	10	ug/L	SW846 8270C
1,3-Dichlorobenzene	ND	10	ug/L	SW846 8270C
1,4-Dichlorobenzene	ND	10	ug/L	SW846 8270C
3,3'-Dichlorobenzidine	ND	50	ug/L	SW846 8270C
2,4-Dichlorophenol	ND	10	ug/L	SW846 8270C
2,6-Dichlorophenol	ND	10	ug/L	SW846 8270C

(Continued on next page)

# METHOD BLANK REPORT

## GC/MS Semivolatiles

Client Lot #...: D4E190262

Work Order #...: GGQDN1AA

Matrix.....: WATER

PARAMETER	RESULT	REPORTING			METHOD
		LIMIT	UNITS		
Diethyl phthalate	ND	10	ug/L		SW846 8270C
Dimethoate	ND	20	ug/L		SW846 8270C
7,12-Dimethylbenz(a) - anthracene	ND	20	ug/L		SW846 8270C
3,3'-Dimethylbenzidine	ND	20	ug/L		SW846 8270C
2,4-Dimethylphenol	ND	10	ug/L		SW846 8270C
Dimethyl phthalate	ND	10	ug/L		SW846 8270C
1,3-Dinitrobenzene	ND	10	ug/L		SW846 8270C
4,6-Dinitro-2-methylphenol	ND	50	ug/L		SW846 8270C
2,4-Dinitrophenol	ND	50	ug/L		SW846 8270C
2,4-Dinitrotoluene	ND	10	ug/L		SW846 8270C
2,6-Dinitrotoluene	ND	10	ug/L		SW846 8270C
Di-n-octyl phthalate	ND	10	ug/L		SW846 8270C
Diphenylamine	ND	10	ug/L		SW846 8270C
Disulfoton	ND	50	ug/L		SW846 8270C
Ethyl methanesulfonate	ND	10	ug/L		SW846 8270C
Fluoranthene	ND	10	ug/L		SW846 8270C
Fluorene	ND	10	ug/L		SW846 8270C
Hexachlorobenzene	ND	10	ug/L		SW846 8270C
Hexachlorobutadiene	ND	10	ug/L		SW846 8270C
Hexachlorocyclopentadiene	ND	50	ug/L		SW846 8270C
Hexachloroethane	ND	10	ug/L		SW846 8270C
Hexachloropropene	ND	100	ug/L		SW846 8270C
Indeno(1,2,3-cd)pyrene	ND	10	ug/L		SW846 8270C
Isodrin	ND	10	ug/L		SW846 8270C
Isophorone	ND	10	ug/L		SW846 8270C
Isosafrole	ND	20	ug/L		SW846 8270C
Methapyrilene	ND	50	ug/L		SW846 8270C
3-Methylcholanthrene	ND	20	ug/L		SW846 8270C
Methyl methanesulfonate	ND	10	ug/L		SW846 8270C
2-Methylnaphthalene	ND	10	ug/L		SW846 8270C
Methyl parathion	ND	50	ug/L		SW846 8270C
2-Methylphenol	ND	10	ug/L		SW846 8270C
3-Methylphenol & 4-Methylphenol	ND	10	ug/L		SW846 8270C
Naphthalene	ND	10	ug/L		SW846 8270C
1,4-Naphthoquinone	ND	50	ug/L		SW846 8270C
1-Naphthylamine	ND	10	ug/L		SW846 8270C
2-Naphthylamine	ND	10	ug/L		SW846 8270C
2-Nitroaniline	ND	50	ug/L		SW846 8270C
3-Nitroaniline	ND	50	ug/L		SW846 8270C
4-Nitroaniline	ND	50	ug/L		SW846 8270C
Nitrobenzene	ND	10	ug/L		SW846 8270C

(Continued on next page)

# METHOD BLANK REPORT

## GC/MS Semivolatiles

Client Lot #...: D4E190262

Work Order #...: GGQDN1AA

Matrix.....: WATER

PARAMETER	RESULT	REPORTING		METHOD
		LIMIT	UNITS	
2-Nitrophenol	ND	10	ug/L	SW846 8270C
4-Nitrophenol	ND	50	ug/L	SW846 8270C
4-Nitroquinoline- 1-oxide	ND	100	ug/L	SW846 8270C
N-Nitrosodi-n-butylamine	ND	10	ug/L	SW846 8270C
N-Nitrosodiethylamine	ND	10	ug/L	SW846 8270C
N-Nitrosodimethylamine	ND	10	ug/L	SW846 8270C
N-Nitrosodiphenylamine	ND	10	ug/L	SW846 8270C
N-Nitrosodi-n-propyl- amine	ND	10	ug/L	SW846 8270C
N-Nitrosomethylethylamine	ND	10	ug/L	SW846 8270C
N-Nitrosomorpholine	ND	10	ug/L	SW846 8270C
N-Nitrosopiperidine	ND	10	ug/L	SW846 8270C
N-Nitrosopyrrolidine	ND	10	ug/L	SW846 8270C
5-Nitro-o-toluidine	ND	20	ug/L	SW846 8270C
Parathion	ND	50	ug/L	SW846 8270C
Pentachlorobenzene	ND	10	ug/L	SW846 8270C
Pentachloroethane	ND	50	ug/L	SW846 8270C
Pentachloronitrobenzene	ND	50	ug/L	SW846 8270C
Pentachlorophenol	ND	50	ug/L	SW846 8270C
Phenacetin	ND	20	ug/L	SW846 8270C
Phenanthrene	ND	10	ug/L	SW846 8270C
Phenol	ND	10	ug/L	SW846 8270C
Phorate	ND	50	ug/L	SW846 8270C
2-Picoline	ND	20	ug/L	SW846 8270C
Pronamide	ND	20	ug/L	SW846 8270C
Pyrene	ND	10	ug/L	SW846 8270C
Pyridine	ND	20	ug/L	SW846 8270C
1,2,4,5-Tetrachloro- benzene	ND	10	ug/L	SW846 8270C
2,3,4,6-Tetrachlorophenol	ND	50	ug/L	SW846 8270C
Thionazin	ND	10	ug/L	SW846 8270C
o-Toluidine	ND	10	ug/L	SW846 8270C
1,2,4-Trichloro- benzene	ND	10	ug/L	SW846 8270C
2,4,5-Trichloro- phenol	ND	10	ug/L	SW846 8270C
2,4,6-Trichloro- phenol	ND	10	ug/L	SW846 8270C
O,O,O-Triethylphosphoro- thioate	ND	50	ug/L	SW846 8270C
1,3,5-Trinitrobenzene	ND	50	ug/L	SW846 8270C

(Continued on next page)

# METHOD BLANK REPORT

## GC/MS Semivolatiles

Client Lot #....: D4E190262

Work Order #....: GGQDN1AA

Matrix.....: WATER

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u> <u>LIMIT</u>	<u>UNITS</u>	<u>METHOD</u>
<u>SURROGATE</u>	<u>PERCENT</u> <u>RECOVERY</u>	<u>RECOVERY</u> <u>LIMITS</u>		
2-Fluorophenol	78	(32 - 116)		
Phenol-d5	78	(40 - 111)		
Nitrobenzene-d5	71	(53 - 107)		
2-Fluorobiphenyl	58	(31 - 105)		
2,4,6-Tribromophenol	70	(42 - 122)		
Terphenyl-d14	76	(21 - 125)		

### NOTE(S) :

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

Cabrera Services  
Method Blank Report  
GC/MS Semivolatiles

Lot-Sample #: D4E210000-151 B Work Order #: GGQDN1AA Matrix: WATER

MASS SPECTROMETER/DATA SYSTEM (MSDS) TENTATIVELY IDENTIFIED COMPOUNDS

PARAMETER	CAS #	ESTIMATED RESULT	RETENTION TIME	UNITS
Unknown		6.4 J	M 12.159	ug/L

**NOTE(S) :**

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

# LABORATORY CONTROL SAMPLE EVALUATION REPORT

## GC/MS Semivolatiles

Client Lot #....: D4E190262      Work Order #....: GGQDN1AC-LCS      Matrix.....: WATER  
 LCS Lot-Sample#: D4E210000-151      GGQDN1AD-LCSD  
 Prep Date.....: 05/21/04      Analysis Date...: 05/28/04  
 Prep Batch #....: 4142151      Analysis Time...: 09:40  
 Dilution Factor: 1      Final Wgt/Vol...: 1 mL  
 Initial Wgt/Vol: 1000 mL

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Acenaphthene	72	(55 - 97)			SW846 8270C
	73	(55 - 97)	0.63	(0-30)	SW846 8270C
4-Chloro-3-methylphenol	77	(59 - 106)			SW846 8270C
	77	(59 - 106)	0.15	(0-40)	SW846 8270C
2-Chlorophenol	80	(59 - 105)			SW846 8270C
	76	(59 - 105)	4.9	(0-40)	SW846 8270C
1,4-Dichlorobenzene	73	(31 - 98)			SW846 8270C
	68	(31 - 98)	7.1	(0-40)	SW846 8270C
2,4-Dinitrotoluene	82	(57 - 113)			SW846 8270C
	86	(57 - 113)	3.9	(0-40)	SW846 8270C
4-Nitrophenol	76	(43 - 118)			SW846 8270C
	81	(43 - 118)	6.3	(0-40)	SW846 8270C
N-Nitrosodi-n-propyl- amine	69	(51 - 99)			SW846 8270C
	72	(51 - 99)	3.1	(0-40)	SW846 8270C
Pentachlorophenol	88	(48 - 114)			SW846 8270C
	88	(48 - 114)	0.27	(0-40)	SW846 8270C
Phenol	77	(56 - 106)			SW846 8270C
	73	(56 - 106)	5.4	(0-40)	SW846 8270C
Pyrene	72	(51 - 103)			SW846 8270C
	75	(51 - 103)	4.8	(0-40)	SW846 8270C
1,2,4-Trichloro- benzene	71	(36 - 99)			SW846 8270C
	69	(36 - 99)	3.6	(0-40)	SW846 8270C

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	77	(54 - 105)
	73	(54 - 105)
Phenol-d5	76	(55 - 106)
	73	(55 - 106)
Nitrobenzene-d5	71	(58 - 108)
	68	(58 - 108)
2-Fluorobiphenyl	69	(53 - 97)
	67	(53 - 97)
2,4,6-Tribromophenol	74	(62 - 113)
	74	(62 - 113)

(Continued on next page)

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: D4E190262      Work Order #...: GGQDN1AC-LCS      Matrix.....: WATER  
LCS Lot-Sample#: D4E210000-151      GGQDN1AD-LCSD

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
Terphenyl-d14	75	(55 - 109)
	78	(55 - 109)

**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 Semivolatiles

Client Lot #....: D4E190262      Work Order #....: GGQDN1AC-LCS      Matrix.....: WATER  
 LCS Lot-Sample#: D4E210000-151      GGQDN1AD-LCSD  
 Prep Date.....: 05/21/04      Analysis Date...: 05/28/04  
 Prep Batch #....: 4142151      Analysis Time...: 09:40  
 Dilution Factor: 1      Final Wgt/Vol...: 1 mL  
 Initial Wgt/Vol: 1000 mL

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
Acenaphthene	100	72.3	ug/L	72		SW846 8270C
	100	72.7	ug/L	73	0.63	SW846 8270C
4-Chloro-3-methylphenol	150	115	ug/L	77		SW846 8270C
	150	116	ug/L	77	0.15	SW846 8270C
2-Chlorophenol	150	119	ug/L	80		SW846 8270C
	150	114	ug/L	76	4.9	SW846 8270C
1,4-Dichlorobenzene	100	72.7	ug/L	73		SW846 8270C
	100	67.7	ug/L	68	7.1	SW846 8270C
2,4-Dinitrotoluene	100	82.5	ug/L	82		SW846 8270C
	100	85.8	ug/L	86	3.9	SW846 8270C
4-Nitrophenol	150	114	ug/L	76		SW846 8270C
	150	122	ug/L	81	6.3	SW846 8270C
N-Nitrosodi-n-propyl- amine	100	69.5	ug/L	69		SW846 8270C
	100	71.7	ug/L	72	3.1	SW846 8270C
Pentachlorophenol	150	132	ug/L	88		SW846 8270C
	150	132	ug/L	88	0.27	SW846 8270C
Phenol	150	115	ug/L	77		SW846 8270C
	150	109	ug/L	73	5.4	SW846 8270C
Pyrene	100	71.8	ug/L	72		SW846 8270C
	100	75.3	ug/L	75	4.8	SW846 8270C
1,2,4-Trichloro- benzene	100	71.2	ug/L	71		SW846 8270C
	100	68.6	ug/L	69	3.6	SW846 8270C

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
2-Fluorophenol	77	(54 - 105)
	73	(54 - 105)
Phenol-d5	76	(55 - 106)
	73	(55 - 106)
Nitrobenzene-d5	71	(58 - 108)
	68	(58 - 108)
2-Fluorobiphenyl	69	(53 - 97)
	67	(53 - 97)
2,4,6-Tribromophenol	74	(62 - 113)
	74	(62 - 113)

(Continued on next page)

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Semivolatiles

Client Lot #...: D4E190262      Work Order #...: GGQDN1AC-LCS      Matrix.....: WATER  
LCS Lot-Sample#: D4E210000-151      GGQDN1AD-LCSD

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
Terphenyl-d14	75	(55 - 109)
	78	(55 - 109)

**NOTE(S) :**

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

Bold print denotes control parameters

STL Denver  
Sample Receiving Checklist

Lot #: DYE190262 Date/Time Received: 5/19/04 0930

Company Name & Sampling Site: CA BRERA Services USA

\*Cooler #(s): 1 2

Temperatures (°C): 18.4 2.5

PM to Complete This Section: Yes No  
Residual chlorine check required: ☐ ☐ Quarantined: ☐ ☐  
Time Zone: 57122  
• EDT/EST • CDT/CST • MDT/MST • PDT/PST • OTHER

Unpacking & Labeling Check Points:

N/A Yes No

- ☐ ☒ ☐ 1. Cooler seals intact. (N/A if hand delivered)  
☒ ☐ 2. Chain of custody present.  
☐ ☒ 3. Bottles broken and/or are leaking, comment if yes.  
☐ ☒ 4. Multiphase samples present? If yes, comment below.

**PHOTOGRAPH BROKEN BOTTLES/MULTIPHASE SAMPLES**

- ☒ ☐ 5. Proper container & preservatives used (ref. Attachment D of SOP# DEN-QA-0003)  
☐ ☒ 6. pH of all samples checked and meet requirements, note exceptions.  
☒ ☐ 7. Chain of custody includes "received by" and "relinquished" by signatures, dates, and times.  
☐ ☒ 8. Receipt date(s) > 48 hours past the collection date(s)? If yes, notify PA/PM.  
☒ ☐ 9. Chain of custody agrees with bottle count, comment if no.  
☒ ☐ 10. Chain of custody agrees with labels, comment if no.  
☐ ☒ 11. VOA samples filled completely, comment if no.  
☐ ☒ 12. VOA vials preserved, check label. Preservative ☒ HCl ☐ 4±2°C ☐ Sodium Thiosulfate  
☐ ☒ 13. Did samples require preservation with sodium thiosulfate?  
☒ ☐ 14. If yes to #13, did the samples contain residual chlorine?  
☒ ☐ 15. Sediment present in dissolved/filtered bottles.  
☐ ☒ 16. Are analyses with short holding times requested?  
☐ ☒ 17. Was a quick Turn Around (TAT) requested?  
☒ ☐ 18. Is extra sample volume provided for MS, MSD or matrix duplicates?

**DOUBLECHECK METALS, SAMPLE LABELS & SUBCONTRACT**

- ☒ ☒ 19. Subcontract COC signed and sent with samples to bottle prep?  
☐ ☐ 20. Were sample labels double-checked by a second person?  
☐ ☐ 21. Were sample bottles and COC double checked for dissolved/filtered metals by a second person?  
☐ ☐ 22. If applicable, were AFCEE Metals placed in the walkin refrigerator?  
☐ ☒ 23. Were special instructions read and followed?

Initials

JB

Document any problems or discrepancies and the actions taken to resolve them on a Condition Upon Receipt Anomaly Report (CUR).

# Chain of Custody Record

STL-4124 (0901)

Client <b>Cabrera Services</b>		Project Manager <b>Lisa Cundiff</b>		Date <b>5/18/04</b>	Chain of Custody Number <b>300399</b>
Address <b>111 West Monument Street (1st Floor)</b>		Telephone Number (Area Code)/Fax Number <b>(618) 792-2675 / (618) 655-9558</b>		Lab Number	

City <b>Baltimore</b>	State <b>MD</b>	Zip Code <b>21201</b>	Site Contact <b>Lisa Cundiff</b>	Lab Contact <b>Sue Decker</b>	Analysis (Attach list if more space is needed)
Project Name and Location (State) <b>USDA NADC Site 1 Ames, Iowa</b>			Carrier/Waybill Number		Special Instructions/ Conditions of Receipt

Contract/Purchase Order/Quote No. 03-3040.17 task 002			Matrix				Containers & Preservatives						Special Instructions/ Conditions of Receipt															
Sample I.D. No. and Description Containers for each sample may be combined on one line)	Date	Time	Air	Aqueous	Sed.	Soil	Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/ NaOH	VOC 822	SVOC 822	Ni-63	C-14	Tritium											
01-MW-01	5/18/04	1342		✓			4		1	3			✓	✓	✓	✓	✓											
01-MW-08	5/18/04	1530		✓			4		1	3			✓	✓	✓	✓	✓											
01-MW-EB	5/18/04	1600		✓					1	3			✓		✓													
01-MW-09	5/18/04	1700		✓			4		1	3			✓	✓	✓	✓	✓											
01-MW-09 DUP	5/18/04	1700		✓					1	3			✓		✓													

Possible Hazard Identification <input checked="" type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input checked="" type="checkbox"/> Unknown			Sample Disposal <input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months			(A fee may be assessed if samples are retained longer than 1 month)			
Turn Around Time Required <input type="checkbox"/> 24 Hours <input type="checkbox"/> 48 Hours <input type="checkbox"/> 7 Days <input type="checkbox"/> 14 Days <input checked="" type="checkbox"/> 21 Days <input type="checkbox"/> Other _____			QC Requirements (Specify)						
Relinquished By <b>Lisa R. Cundiff</b>			Date <b>5-18-04</b>		Time <b>1800</b>		1. Received By <b>[Signature]</b>		
Relinquished By			Date		Time		2. Received By		
Relinquished By			Date		Time		3. Received By		
Comments									

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

# Volatile GC/MS

## Supporting Documentation

Sample Sequence, Chromatograms/Mass Spectra



# STL

Lot ID: D4E190Z6Z

Client: Cabrera Services

Method: 8Z60B

Associated Samples: 1-6

Batch #(s): 4152049

*I certify that, to the best of my knowledge, the attached package represents a complete and accurate copy of the original data.*

Signature/Date: \_\_\_\_\_

**GC /MS VOLATILE  
ORGANIC EXTRACTION  
LOG SHEETS**



**STL**

RQC058

Severn Trent Laboratories, Inc.  
EXTRACTION BENCH WORKSHEETRun Date: 5/31/04  
Time: 15:54:18

LEV	LEV	LEV	LEV
1	2	1	2
-	-	-	-
-	-	-	-
-	-	-	-

Blank  
Check  
MS/MSD

Weights/Volumes  
Spike & Surrogate Worksheet  
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 AnalyticalGr  
Bench Sheet Copied per COC

Extractionist: \_\_\_\_\_

Concentrationist: \_\_\_\_\_

Reviewer/Date: \_\_\_\_\_ / 0/00/00

\*\*\*\*\*  
\*  
\* QC BATCH: 4152049 \*  
\*  
\*\*\*\*\*

PREP DATE: 5/26/04 6:37  
COMP DATE: 5/26/04 6:37

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 COMMENTS:	5/28/04	D4E140372-004 GGA9C-1-AA		25	QK	WATER	0.01mL 20.00mL	NA	NA	NA		.0		.0	
0/00/00 COMMENTS:	5/28/04	D4E140372-004 GGA9C-1-ADS		25	QK	WATER	0.01mL 20.00mL	NA	NA	NA		.0		.0	
0/00/00 COMMENTS:	5/28/04	D4E140372-004 GGA9C-1-ARD		25	QK	WATER	0.01mL 20.00mL	NA	NA	NA		.0		.0	
0/00/00 COMMENTS:	5/25/04	D4E140377-004 GGA92-1-AA	R	25	QK	WATER	20mL 20.00mL	NA	NA	NA		.0		.0	
0/00/00 COMMENTS:	5/25/04	D4E140381-001 GGCAT-1-AA	R	25	QK	WATER	20mL 20.00mL	NA	NA	NA		.0		.0	
0/00/00 COMMENTS:	6/08/04	D4E190262-001 GGJX4-1-AA	D	25	QK	WATER	20mL 20.00mL	NA	NA	NA		.0		.0	
0/00/00 COMMENTS:	6/08/04	D4E190262-002 GGJX6-1-AA	D	25	QK	WATER	20mL 20.00mL	NA	NA	NA		.0		.0	

RQC058

Severn Trent Laboratories, Inc.  
EXTRACTION BENCH WORKSHEETRun Date: 5/31/04  
Time: 15:54:18\*\*\*\*\*  
\*  
\* QC BATCH: 4152049 \*  
\*  
\*\*\*\*\*PREP DATE: 5/26/04 6:37  
COMP DATE: 5/26/04 6:37

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 COMMENTS:	6/08/04	D4E190262-003 GGJX8-1-AA	D	25	QK	WATER	20mL 20.00mL	NA	NA	NA	.0	.0	
0/00/00 COMMENTS:	6/08/04	D4E190262-004 GGJX9-1-AA	D	25	QK	WATER	20mL 20.00mL	NA	NA	NA	.0	.0	
0/00/00 COMMENTS:	6/08/04	D4E190262-005 GGJ0A-1-AA	D	25	QK	WATER	20mL 20.00mL	NA	NA	NA	.0	.0	
0/00/00 COMMENTS:	6/08/04	D4E190262-006 GGJ2F-1-AA	D	25	QK	WATER	20mL 20.00mL	NA	NA	NA	.0	.0	
0/00/00 COMMENTS:	5/31/04	D4E190317-002 GGKD2-1-AA	R	25	QK	WATER	20mL 20.00mL	NA	NA	NA	.0	.0	
0/00/00 COMMENTS:	5/31/04	D4E190317-004 GGKD4-1-AA	R	25	QK	WATER	5 20.00mL	NA	NA	NA	.0	.0	
0/00/00 COMMENTS:	5/31/04	D4E190317-005 GGKD5-1-AA	R	25	QK	WATER	5 20.00mL	NA	NA	NA	.0	.0	
0/00/00 COMMENTS:	5/31/04	D4E190317-006 GGKD6-1-AA	R	25	QK	WATER	20mL 20.00mL	NA	NA	NA	.0	.0	
0/00/00 COMMENTS:	5/31/04	D4E190317-008 GGKEA-1-AA	R	25	QK	WATER	20mL 20.00mL	NA	NA	NA	.0	.0	
0/00/00 COMMENTS:	5/31/04	D4E190317-009 GGKEC-1-AA	R	25	QK	WATER	20mL 20.00mL	NA	NA	NA	.0	.0	



RQC058

Severn Trent Laboratories, Inc.  
EXTRACTION BENCH WORKSHEETRun Date: 5/31/04  
Time: 15:54:18\*\*\*\*\*  
\*  
\* QC BATCH: 4152049 \*  
\*  
\*\*\*\*\*PREP DATE: 5/26/04 6:37  
COMP DATE: 5/26/04 6:37

EXTR EXPR	ANL DUE	LOT#,MSRUN#/ WORK ORDER	TEST FLGS	EXT	MTH	MATRIX	INIT/FIN WT/VOL	INIT	PH"S ADJ1	ADJ2	EXTRACTION	SOLVENTS VOL EXCHANGE	VOL	SPIKE STANDARD/ SURROGATE ID
0/00/00 COMMENTS:	0/00/00	D4E310000-049 GHDC0-1-AAB		25	QK	WATER	20mL 20.00mL	NA	NA	NA		.0		.0
0/00/00 COMMENTS:	0/00/00	D4E310000-049 GHDC0-1-ACC		25	QK	WATER	20mL 20.00mL	NA	NA	NA		.0		.0

R = RUSH      C = CLP  
E = EPA 600    D = EXP.DEL)  
M = CLIENT REQ MS/MSD

NUMBER OF WORK ORDERS IN BATCH: 19

**GC/MS VOLATILE  
INSTRUMENT  
LOG SHEETS**



**STL**

STL, Denver

## GC/MS Volatile Analysis

Instrument C  
5972 MSD

Column	Phase	Inj. Temp	Init. Time	Ramp Rate	Final Temp	Flow cc/min	Press. Psi	Type	Vac. Range	Source Temp	Mass Range
75M	DB-624	200C	2 min.	5C/min	65C	18	20	MS	10 <sup>-6</sup>	-175C	35-300/2 <sup>2</sup>
			0 min.	12C/min	155C						
			0 min.	25C/min	210C						

Comments

DEN-MS-0010 (82608/624/524.2)  
(Circle as appropriate)

Target Batch (Directory): C 050604i.b

Is #97<sup>th</sup> / SS #054-4

QuantIMS Batch:

Lot #	Sample	W.O.#	Purge vol (ml)	Sample amt (ml/g)	Date	Initials	File Number	IS OK	SS OK	DIL OK	24 hr 12 hr	pH	Comments	ALS
BFB		1ul div ing			5/05/04	SH	C0302.d							
BLUE			20				3				✓		#073-04 1235	
Main 001				0.5			4						#77-06/06	1
2				1			5						#77/07-04	2
5				2.5			6							3
10				5			7							4
30				15			8							5
60				30			9							6
SUPP 010				5ul			10						#	7
SSV030				15ul			11						#52/11-04	8
CLAMP							12						#68/61/91-04	9
BLUE				20			13							10
SUPP 001				0.5ul			14						#011/052-04	11
002				1.0ul			15							12
005				2.5ul			16							13
010				5.0ul			17							14
030				15ul			18							15
060				30ul			19							16
														17

Revised 6/3/03

public/QA/forms/VOA Logbookr3.xls

## GC/MS Volatile Analysis

Instrument C  
5972 MSD

STL, Denver

Column	Phase	Inj. Temp	Init. Time	Ramp Rate	Final Temp	Flow cc/min	Press. Psi	Type	Vac. Range	Source Temp	Mass Range
75M	DB-624	200C	2 min.	5C/min	65C	18	20	MS	10 <sup>-6</sup>	-175C	35-300/2 <sup>+</sup> 2
			0 min.	12C/min	155C						
			0 min.	25C/min	210C						

DEN-MS-0010 (8260B/524/524.2)  
(Circle as appropriate)

Comments

Target Batch (Directory): C 052604.6QuantIMS Batch: 4152049

Lot #	Sample	W.O.#	Purge vol (ml)	Sample amt (ml/g)	Date	Initials	File Number	IS OK	SS OK	DIL OK	24 hr (12 hr)	pH	Comments	ALS
BFB	—	—	1 mL	Dr Inj	05/26/04	JPM	C1008	—	—	—	—	—	073-04 (06-37)	
MAIN010	—	—	20 mL	5 mL			09	—	—	—	—	NA	067/082-04	1
SUPP010	—	—		↓			10	—	—	—	—		011/052-04	2
LCS	—	GHDC01AC		10 µL			11	—	—	—	—		109-04	3
VLK	—	↓ IAA		20 mL			12	—	—	—	—	↓	75/55 109/099-04	4
D4E140372	004	GGA9C1AA		10 µL			13	—	—	—	—	↓		5
D4E140377	004	92		20 mL			14	—	—	—	—	↓		6
D4E140381	001	GGCAT		↓			15	—	—	—	—	↓		7
D4E140372	4MS	GGA9C1AD		10 µL			16	—	—	—	—	↓		8
↓	4MSD	↓ IAE		↓			17	—	—	—	—	↓	(MT)	9
D4E210436	001	GGVEN1AA		2 mL			18	—	—	X	—	7	RR 20 mL	10
D4E190262	001	GGJX4		20 mL			19	—	—	—	—	↓		11
	002	X6					20	—	—	—	—	↓		12
	003	X8					21	—	—	—	—	↓		13
	004	X9					22	—	—	—	—	↓		14
	005	0A					23	—	—	—	—	↓		15
	006	2F					24	—	—	—	—	↓	Power outage Not required	16
BLK	—	—					25	—	—	—	—	↓		17
D4E190262	006	GGJ2F1AA		↓			26	—	—	—	—	↓		18
D4E190317	001	GGKDK		↓			27	—	—	X	—	↓	RR 5 mL	19

STL, Denver

### GC/MS Volatile Analysis

Instrument 5972 MSD

Column	Phase	Inj. Temp	Init. Time	Ramp Rate	Final Temp	Flow cc/min	Press. Psi	Type	Vac. Range	Source Temp	Mass Range
75M	DB-624	200C	2 min.	5C/min	65C	18	20	MS	10 <sup>-6</sup>	~175C	35-300/2*2
			0 min.	12C/min	155C						
			0 min.	25C/min	210C						

DEN-MS-0010 8260B/624/524.2

## Comments

DEN-MS-0010 (8260B/624/524.2)  
(Circle as appropriate)

Target Batch (Directory): C 052604.b

QuantIMS Batch: 4152049

[illegible]

**GC/MS VOLATILE  
STANDARD DATA**

**SEVERN  
TRENT**

**STL**

## GC/MS Initial Calibration Review Checklist

STL Denver

Instrument ID and Date: C Main 5/5/04Check Method Used: Analysis ☐ 625 ☐ 8270 ☐ Other SV \_\_\_\_\_☐ 524.2 ☐ 624 ☒ 8260B ☐ Other VOA \_\_\_\_\_VOA Preparation ☐ 5mL ☒ 20mL ☐ 5035 Low ☐ 5035 High ☐ 5030 Low ☐ 5030 High

Review Items	Level 1			Level 2	Comments
	Yes	No	N/A		
<b>Initial Calibration</b>					
1. BFB/DFTPP meets criteria?	/			/	
2. ICAL date and instrument ID verified?	/			/	
3. Sufficient number of calibration points used?	/			/	
4. Reasons for removal of points documented?	/			/	*
5. %RSD or correlation coefficient within method limits?	/			/	
6. If RRF used for ICAL, were all compounds within 15% RSD?			/	/	List all exceptions below (cpd & RSD)
7. Response factors meet criteria?	/			/	
8. Isomeric pairs checked for correct peak assignment?	/			/	
9. Data checked for detector saturation?	/			/	
10. Standards traceability properly documented?	/			/	
11. Manual integrations documented and checked?	/			/	
12. 2 <sup>nd</sup> source ICV recovery 75-125% for DoD projects, 65-135% ( $\pm 55\%$ of expected for poor performers) for non-DoD?	/			/	

1st Level Reviewer: GmDate: 5/6/042nd Level Reviewer: alDate: 5/6/04

\* High pt chloroethane = 30 ppb  
 bromoform = 30 ppb  
 Some pts < RL removed

Calibration History

Method : /chem/C.i/050504i.b/C-20ml-AQ.m  
Start Cal Date: 02-MAR-2004 00:09  
End Cal Date : 05-MAY-2004 19:57

Initial Calibration

Injection Date	Sublist	Calibration File
Cal Level: 1 , Cal Amount: 1.00000		
05-MAY-2004 18:04	2-supp	/chem/C.i/050504i.b/c0314.d
05-MAY-2004 13:47	1-main	/chem/C.i/050504i.b/c0304.d
Cal Level: 2 , Cal Amount: 2.00000		
05-MAY-2004 18:26	2-supp	/chem/C.i/050504i.b/c0315.d
05-MAY-2004 14:11	1-main	/chem/C.i/050504i.b/c0305.d
Cal Level: 3 , Cal Amount: 5.00000		
05-MAY-2004 18:49	2-supp	/chem/C.i/050504i.b/c0316.d
05-MAY-2004 14:35	1-main	/chem/C.i/050504i.b/c0306.d
Cal Level: 4 , Cal Amount: 10.0000		
05-MAY-2004 19:12	2-supp	/chem/C.i/050504i.b/c0317.d
05-MAY-2004 14:59	1-main	/chem/C.i/050504i.b/c0307.d
Cal Level: 5 , Cal Amount: 30.0000		
05-MAY-2004 19:35	2-supp	/chem/C.i/050504i.b/c0318.d
05-MAY-2004 15:23	1-main	/chem/C.i/050504i.b/c0308.d
Cal Level: 6 , Cal Amount: 60.0000		
05-MAY-2004 19:57	2-supp	/chem/C.i/050504i.b/c0319.d
05-MAY-2004 15:46	1-main	/chem/C.i/050504i.b/c0309.d

Continuing Calibration

05-MAY-2004 19:12	2-supp	/chem/C.i/050504i.b/c0317.d
05-MAY-2004 16:09	2-supp	/chem/C.i/050504i.b/c0310.d





Report Date : 05-May-2004 16:12

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STL Denver

## INITIAL CALIBRATION DATA

Start Cal Date : 02-MAR-2004 00:09  
 End Cal Date : 05-MAY-2004 15:46  
 Quant Method : ISTD  
 Target Version : 3.40  
 Integrator : Falcon  
 Method file : /chem/C.i/050504i.b/C-20ml-AQ.m  
 Cal Date : 05-May-2004 16:11 meierg

## Calibration File Names:

Level 1: /chem/C.i/0401904p.b/c0270.d  
 Level 2: /chem/C.i/0401904p.b/c0271.d  
 Level 3: /chem/C.i/0401904p.b/c0272.d  
 Level 4: /chem/C.i/0401904p.b/c0273.d  
 Level 5: /chem/C.i/0401904p.b/c0274.d  
 Level 6: /chem/C.i/0401904p.b/c0275.d

Compound	1	2	5	10	30	60	Curve	Coefficients			RSD or R <sup>2</sup>
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6		b	m1	m2	
M 12 1,2-Dichloroethene (total)	0.30512	0.28595	0.27497	0.27980	0.27781	0.27893	AVRG		0.28376		3.90119
M 18 Xylene (total)	2.95627	2.93453	2.74341	2.84029	2.94347	2.86967	AVRG		2.88127		2.82605
1 dichlorodifluoromethane	0.31688	0.25035	0.25120	0.25102	0.23943	0.22834	AVRG		0.25620		12.12537
3 Chloromethane	0.36978	0.27623	0.27992	0.26635	0.26171	0.26005	AVRG		0.28567		14.68623
4 Vinyl Chloride	0.29714	0.22673	0.23727	0.24123	0.23095	0.21948	AVRG		0.24213		11.57163
6 Bromomethane	15612	28466	76280	154214	443351	825005	WLNIR	-0.05502	0.07275		0.99566
7 Chloroethane	0.15904	0.13563	0.14123	0.13698	0.12644	+++++	AVRG		0.13986		8.58027
9 Trichlorofluoromethane	0.36507	0.30251	0.32074	0.32265	0.29034	0.28766	AVRG		0.31483		9.10593
10 Ethanol	+++++	0.00102	0.00100	0.00095	0.00113	0.00099	AVRG		0.00102		6.61146

Report Date : 05-May-2004 16:12

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## STL Denver

## INITIAL CALIBRATION DATA

Start Cal Date : 02-MAR-2004 00:09  
 End Cal Date : 05-MAY-2004 15:46  
 Quant Method : ISTD  
 Target Version : 3.40  
 Integrator : Falcon  
 Method file : /chem/C.i/050504i.b/C-20ml-AQ.m  
 Cal Date : 05-May-2004 16:11 meierg

Compound	1	2	5	10	30	60	Curve	Coefficients			%RSD or R <sup>2</sup>
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6		b	m1	m2	
15 Acrolein	0.02465	0.02229	0.02229	0.02200	0.02203	0.02130	AVRG		0.02243		5.11903
17 1,1-Dichloroethene	0.28217	0.25923	0.25670	0.25439	0.23793	0.23241	AVRG		0.25380		6.94331
19 Acetone	++++	0.03363	0.03032	0.02956	0.02849	0.02835	AVRG		0.03007		7.13480
20 Iodomethane	0.31396	0.26962	0.26074	0.26675	0.25334	0.25579	AVRG		0.27003		8.29540
25 Acetonitrile	++++	0.01360	0.01284	0.01259	0.01246	0.01220	AVRG		0.01274		4.19731
26 Methylene Chloride	++++	0.26365	0.23528	0.21860	0.20857	0.20570	AVRG		0.22636		10.53133
27 tert-Butyl alcohol	0.00979	0.00958	0.00907	0.00979	0.01017	0.01021	AVRG		0.00977		4.28383
30 Acrylonitrile	0.04552	0.04169	0.04256	0.04357	0.04455	0.04502	AVRG		0.04382		3.39197
29 trans-1,2-Dichloroethene	0.32097	0.29215	0.28624	0.29017	0.28381	0.28356	AVRG		0.29282		4.85358
32 1,1-Dichloroethane	0.65302	0.60545	0.58354	0.59485	0.60661	0.57762	AVRG		0.60352		4.45149
34 Chloroprene	0.66167	0.61041	0.62045	0.61735	0.62379	0.61921	AVRG		0.62548		2.92229
33 Isopropyl ether	0.19849	0.19062	0.18557	0.18813	0.18237	0.17451	AVRG		0.18661		4.31982
38 cis-1,2-Dichloroethene	0.28927	0.27976	0.26370	0.26942	0.27181	0.27430	AVRG		0.27471		3.23688
37 2,2-Dichloropropane	0.45097	0.41167	0.38891	0.40118	0.39389	0.38715	AVRG		0.40563		5.90795
39 2-Butanone	0.04835	0.04759	0.04402	0.04534	0.04677	0.04719	AVRG		0.04654		3.41479
41 Propionitrile	0.01470	0.01401	0.01484	0.01519	0.01574	0.01563	AVRG		0.01502		4.28451
44 Methacrylonitrile	0.07393	0.07246	0.07256	0.07364	0.07533	0.07637	AVRG		0.07405		2.08832

## STL Denver

## INITIAL CALIBRATION DATA

Start Cal Date : 02-MAR-2004 00:09  
 End Cal Date : 05-MAY-2004 15:46  
 Quant Method : ISTD  
 Target Version : 3.40  
 Integrator : Falcon  
 Method file : /chem/C.i/050504i.b/C-20ml-AQ.m  
 Cal Date : 05-May-2004 16:11 meierg

Compound	1	2	5	10	30	60	Curve	Coefficients			%RSD or R <sup>2</sup>
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6		b	m1	m2	
42 Bromochloromethane	0.07561	0.07334	0.07333	0.07760	0.07528	0.07394	AVRG		0.07485		2.21659
45 Chloroform	0.46871	0.45298	0.43753	0.43999	0.44442	0.44736	AVRG		0.44850		2.52126
47 1,1,1-Trichloroethane	0.48199	0.44724	0.44372	0.44924	0.44837	0.44334	AVRG		0.45231		3.25803
50 1,1-Dichloropropene	0.49289	0.45716	0.44431	0.43932	0.44797	0.45613	AVRG		0.45630		4.20556
49 Carbon Tetrachloride	0.41181	0.38747	0.38026	0.38945	0.38777	0.39355	AVRG		0.39172		2.74263
53 Isobutanol	0.00288	0.00292	0.00284	0.00293	0.00331	0.00323	AVRG		0.00302		6.58890
51 Benzene	1.23481	1.16719	1.14231	1.16639	1.20021	1.24428	AVRG		1.19253		3.43122
54 1,2-Dichloroethane	0.27933	0.26686	0.26868	0.26704	0.27145	0.27118	AVRG		0.27076		1.71202
57 Trichloroethene	0.25666	0.26148	0.25309	0.26261	0.25840	0.26441	AVRG		0.25944		1.61639
59 n-Butanol	5410	12999	36462	84547	319977	676492	WLINR	1.22536	0.00284		0.99556
60 1,2-Dichloropropane	0.26597	0.27297	0.26410	0.27452	0.27803	0.28321	AVRG		0.27313		2.64258
62 Dibromomethane	0.07899	0.07595	0.07652	0.07754	0.08003	0.07894	AVRG		0.07799		2.02987
63 1,4-Dioxane	0.00074	0.00076	0.00073	0.00079	0.00085	0.00078	AVRG		0.00078		5.58699
65 Bromodichloromethane	0.24159	0.25102	0.25456	0.26496	0.27435	0.27889	AVRG		0.26089		5.50618
68 cis-1,3-Dichloropropene	1.73562	1.75350	1.76969	1.90162	2.04602	2.09141	AVRG		1.88298		8.28508
70 4-Methyl-2-pentanone	0.67174	0.63992	0.60733	0.60207	0.65615	0.67431	AVRG		0.64192		4.89130
71 Toluene	7.83841	7.57905	7.13413	7.30329	7.71907	7.70497	AVRG		7.54649		3.60647

Report Date : 05-May-2004 16:12

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## STL Denver

## INITIAL CALIBRATION DATA

Start Cal Date : 02-MAR-2004 00:09  
 End Cal Date : 05-MAY-2004 15:46  
 Quant Method : ISTD  
 Target Version : 3.40  
 Integrator : Falcon  
 Method file : /chem/C.i/050504i.b/C-20ml-AQ.m  
 Cal Date : 05-May-2004 16:11 meierg

Compound	1	2	5	10	30	60	Curve	Coefficients			%RSD or R <sup>2</sup>
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6		b	m1	m2	
72 trans-1,3-Dichloropropene	1.14502	1.21874	1.24866	1.32596	1.48892	1.52254	AVRG		1.32497		11.46619
74 1,1,2-Trichloroethane	0.75390	0.67880	0.67529	0.67955	0.68779	0.66487	AVRG		0.69003		4.66023
75 Tetrachloroethene	1.17633	1.24501	1.16409	1.19444	1.19379	1.18376	AVRG		1.19290		2.34324
76 1,3-Dichloropropane	1.24394	1.34073	1.29553	1.32079	1.37549	1.37848	AVRG		1.32583		3.86214
78 2-Hexanone	0.33595	0.36312	0.36545	0.39484	0.43296	0.44479	AVRG		0.38952		10.96229
79 Dibromochloromethane	0.59046	0.67266	0.69369	0.73272	0.77234	0.79875	AVRG		0.71010		10.58100
80 1,2-Dibromoethane	0.54585	0.56109	0.53250	0.56253	0.58755	0.58481	AVRG		0.56239		3.81740
82 Chlorobenzene	3.85573	3.79520	3.59181	3.69915	3.78456	3.86209	AVRG		3.76475		2.74206
83 1-Chlorohexane	2.63575	2.55677	2.52132	2.60014	2.66486	2.66969	AVRG		2.60809		2.30119
84 1,1,1,2-Tetrachloroethane	1.00458	1.05640	1.00266	1.01286	1.04595	1.01176	AVRG		1.02237		2.23975
85 Ethylbenzene	2.46228	2.53155	2.35588	2.44338	2.43917	2.40281	AVRG		2.43918		2.41467
86 m and p-Xylene	3.03002	3.07114	2.86484	2.95860	3.05065	2.95617	AVRG		2.98857		2.57658
87 o-Xylene	2.80879	2.66131	2.50054	2.60366	2.72909	2.69667	AVRG		2.66668		3.98954
88 Styrene	3.65325	3.93925	3.83896	4.08220	4.34231	4.41357	AVRG		4.04492		7.27297
89 Bromoform	0.25320	0.27698	0.25581	0.29140	0.32653	+++++	AVRG		0.28078		10.69060
90 isopropyl benzene	7.73967	7.77346	7.44009	7.79394	8.34123	7.06039	AVRG		7.69146		5.52580
91 Cyclohexanone	0.02360	0.02265	0.02339	0.02455	0.02773	0.02701	AVRG		0.02482		8.35757

Report Date : 05-May-2004 16:12

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## STL Denver

## INITIAL CALIBRATION DATA

Start Cal Date : 02-MAR-2004 00:09  
 End Cal Date : 05-MAY-2004 15:46  
 Quant Method : ISTD  
 Target Version : 3.40  
 Integrator : Falcon  
 Method file : /chem/C.i/050504i.b/C-20ml-AQ.m  
 Cal Date : 05-May-2004 16:11 meierg

Compound	1	2	5	10	30	60	Curve	Coefficients		%RSD or R <sup>2</sup>
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6		b	m1 m2	
94 Bromobenzene	0.89717	0.89836	0.84317	0.86786	0.89501	0.93444	AVRG		0.88933	3.48463
95 1,1,2,2-Tetrachloroethane	0.63146	0.58148	0.57537	0.57636	0.60552	0.56736	AVRG		0.58959	4.11536
96 1,2,3-Trichloropropane	0.14812	0.13906	0.15223	0.13707	0.14390	0.14221	AVRG		0.14377	3.93361
97 n-Propylbenzene	1.56420	1.56959	1.50106	1.51447	1.53084	1.55802	AVRG		1.53970	1.84571
99 2-Chlorotoluene	1.14139	1.20267	1.11188	1.14150	1.14924	1.16808	AVRG		1.15246	2.65024
100 4-Chlorotoluene	1.14564	1.17922	1.09618	1.10627	1.09633	1.09736	AVRG		1.12017	3.09068
101 1,3,5-Trimethylbenzene	4.88625	5.08435	4.88142	5.07604	5.17132	5.12556	AVRG		5.03749	2.45675
102 tert-Butylbenzene	3.86519	3.92747	3.68928	3.89569	4.00842	4.13278	AVRG		3.91980	3.78355
103 1,2,4-Trimethylbenzene	4.69119	4.76928	4.56024	4.68559	4.89613	4.94111	AVRG		4.75726	2.99568
104 sec-Butylbenzene	1.17275	1.19747	1.14537	1.19021	1.15581	1.15646	AVRG		1.16968	1.77748
105 m-Dichlorobenzene	1.92095	1.94627	1.79656	1.82571	1.86203	1.93749	AVRG		1.88150	3.32701
106 4-Isopropyltoluene	5.01404	4.83718	4.67652	4.89353	5.07739	5.04695	AVRG		4.92427	3.09933
108 p-dichlorobenzene	1.80393	1.85007	1.70879	1.73845	1.73780	1.81639	AVRG		1.77590	3.11323
110 o-Dichlorobenzene	1.49842	1.39516	1.37149	1.42611	1.40790	1.42533	AVRG		1.42073	3.04031
111 n-Butylbenzene	5.47951	5.31779	5.03845	5.19763	5.32715	5.17349	AVRG		5.25567	2.90288
112 1,2-Dibromo-3-chloropropane	0.04506	0.04806	0.05234	0.05264	0.05688	0.06162	AVRG		0.05277	11.28116
113 1,2,4-Trichlorobenzene	0.97872	0.79377	0.79134	0.78315	0.77841	0.82233	AVRG		0.82462	9.34121

## STL Denver

## INITIAL CALIBRATION DATA

Start Cal Date : 02-MAR-2004 00:09  
End Cal Date : 05-MAY-2004 15:46  
Quant Method : ISTD  
Target Version : 3.40  
Integrator : Falcon  
Method file : /chem/C.i/050504i.b/C-20ml-AQ.m  
Cal Date : 05-May-2004 16:11 meierg

Compound	1	2	5	10	30	60	Curve	Coefficients			%RSD or R^2
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6		b	m1	m2	
114 Hexachlorobutadiene	0.70588	0.63675	0.59778	0.59630	0.56670	0.57289	AVRG		0.61272		8.46605
115 Naphthalene	1.30478	1.13258	1.10272	1.14595	1.20874	1.30019	AVRG		1.19916		7.27186
116 1,2,3-Trichlorobenzene	0.72836	0.63935	0.58468	0.60828	0.60295	0.63981	AVRG		0.63390		8.05152

Curve	Formula	Units
Averaged	Amt = Rsp/ml	Response
Wt Linear	Amt = b + Rsp/ml	Response

Date : 05-MAY-2004 11:03

Client ID: BFB

Instrument: C.i

Sample Info: bfb

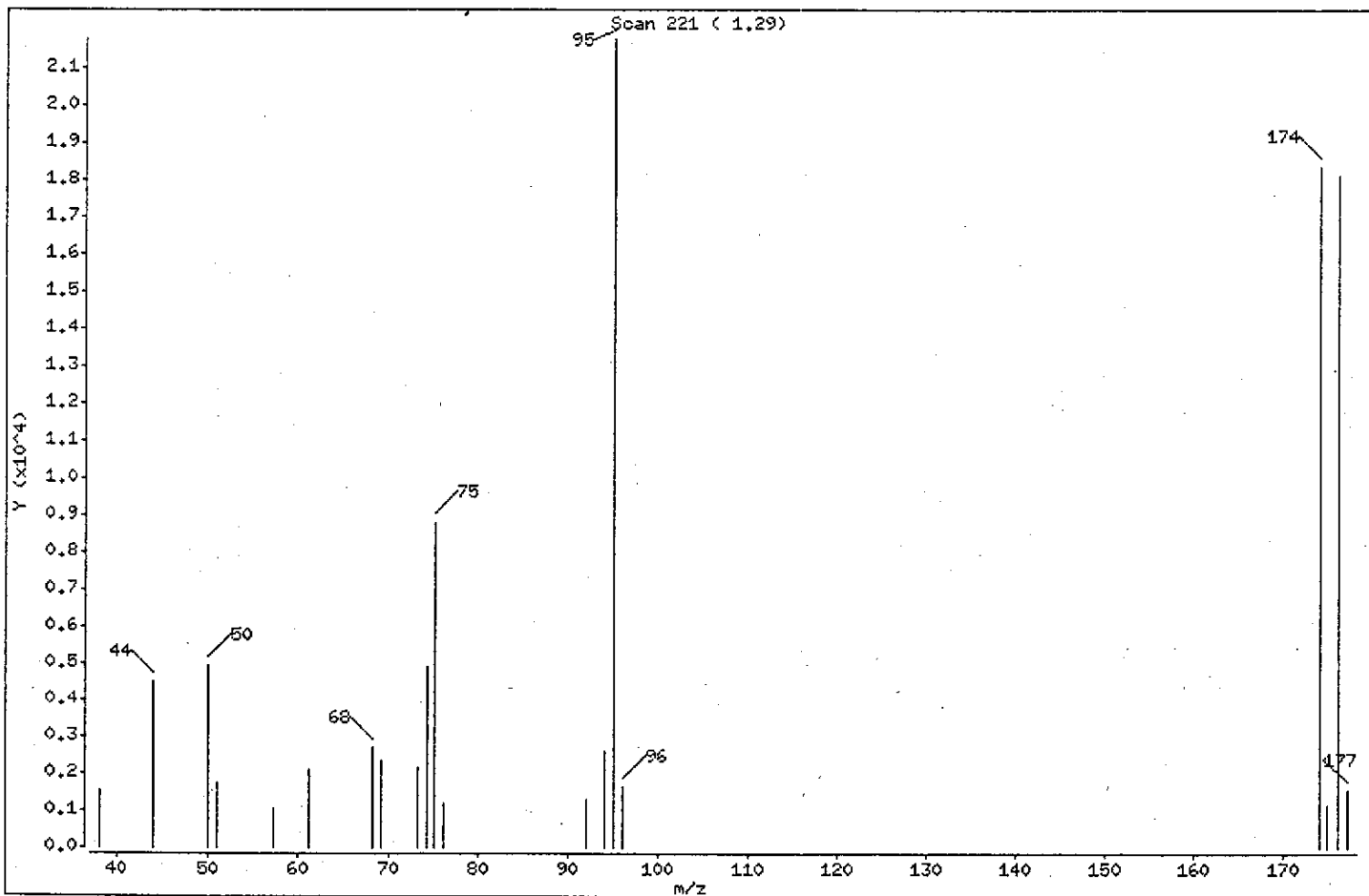
Volume Injected (uL): 1.0

Operator: reinharj

Column phase: DB624

Column diameter: 0.53

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	22.77
75	30.00 - 60.00% of mass 95	40.56
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 - 100.00% of mass 95	84.44
175	5.00 - 9.00% of mass 174	5.18 ( 6.14)
176	95.00 - 101.00% of mass 174	83.30 ( 98.65)
177	5.00 - 9.00% of mass 176	7.03 ( 8.44)



Data File: /chem/C.i/050504.b/c0299.d

Page 3

Date : 05-MAY-2004 11:03

Client ID: BFB

Instrument: C.i

Sample Info: bfb

Volume Injected (uL): 1.0

Operator: reinharj

Column phase: DB624

Column diameter: 0.53

Data File: c0299.d

Spectrum: Scan 221 ( 1.29)

Location of Maximum: 95.10

Number of points: 20

m/z	Y	m/z	Y	m/z	Y	m/z	Y
38.20	1572	68.15	2691	92.00	1324	176.00	18112
44.15	4500	69.05	2334	94.00	2588	177.10	1528
50.10	4952	73.15	2152	95.10	21744		
51.10	1728	74.20	4901	96.05	1637		
57.15	1068	75.10	8820	174.00	18360		
61.10	2097	76.00	1179	174.80	1127		

Data File: /chem/C.i/050504.b/c0299.d

Date : 05-MAY-2004 11:03

Client ID: BFB

Sample Info: bfb

Volume Injected (uL): 1.0

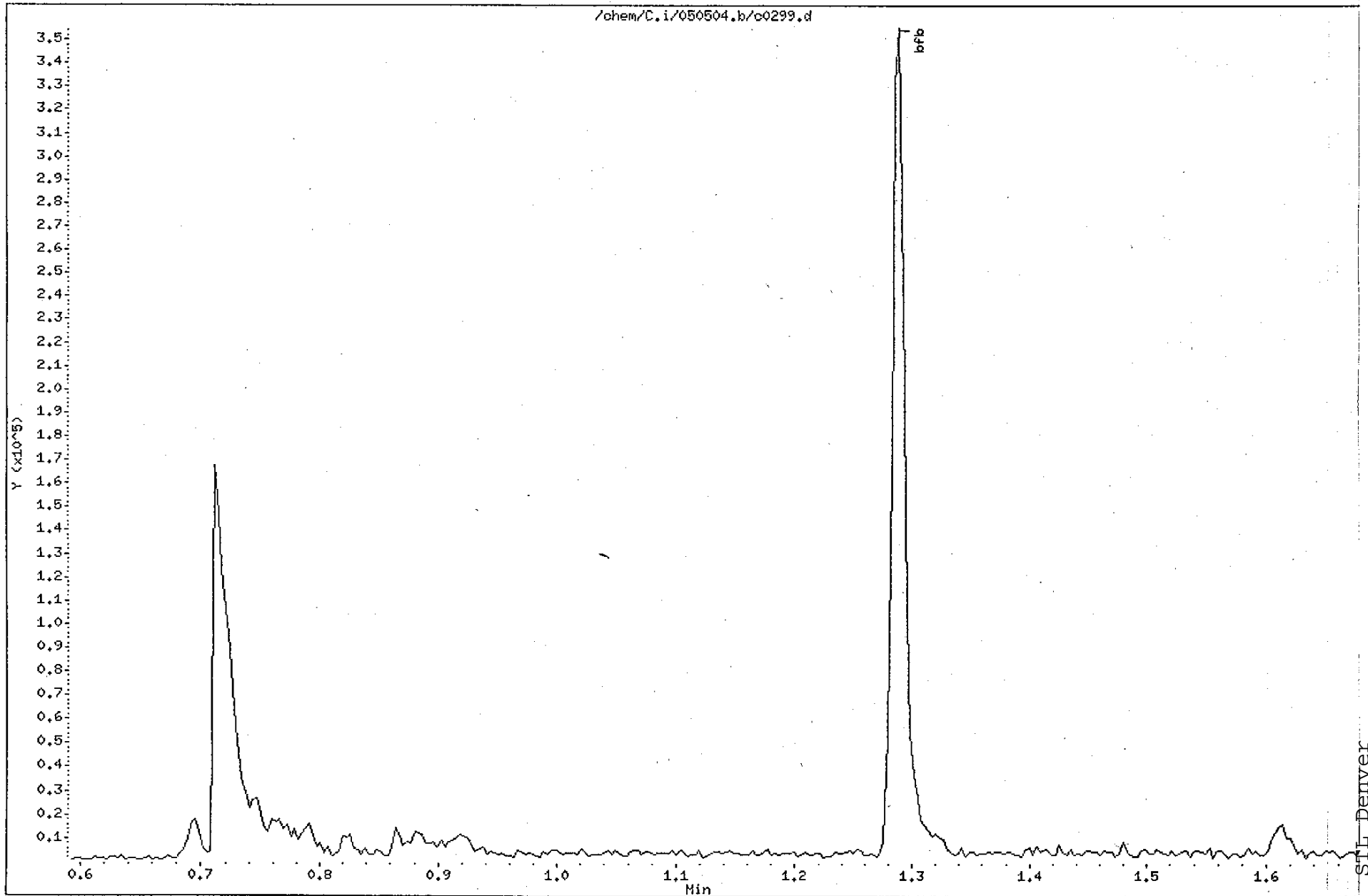
Column phase: DB624

Instrument: C.i

Operator: reinharj

Column diameter: 0.53

Page 1



## STL Denver

## INITIAL CALIBRATION DATA

Start Cal Date : 02-MAR-2004 00:09  
 End Cal Date : 05-MAY-2004 15:46  
 Quant Method : ISTD  
 Origin : Disabled  
 Target Version : 3.40  
 Integrator : Falcon  
 Method file : /chem/C.i/050504i.b/C-20ml-AQ.m  
 Cal Date : 05-May-2004 16:06 meierg  
 Curve Type : Average

## Calibration File Names:

Level 1: /chem/C.i/0401904p.b/c0270.d  
 Level 2: /chem/C.i/0401904p.b/c0271.d  
 Level 3: /chem/C.i/0401904p.b/c0272.d  
 Level 4: /chem/C.i/0401904p.b/c0273.d  
 Level 5: /chem/C.i/0401904p.b/c0274.d  
 Level 6: /chem/C.i/0401904p.b/c0275.d

Compound	1.000	2.000	5.000	10.000	30.000	60.000	RRF	% RSD
-----	-----	-----	-----	-----	-----	-----	-----	-----
M 12 1,2-Dichloroethene (total)	0.30512	0.28595	0.27497	0.27980	0.27781	0.27893	0.28376	3.901
M 18 Xylene (total)	2.95627	2.93453	2.74341	2.84029	2.94347	2.86967	2.88127	2.826
1 dichlorodifluoromethane	0.31688	0.25035	0.25120	0.25102	0.23943	0.22834	0.25620	12.125
3 Chloromethane	0.36978	0.27623	0.27992	0.26635	0.26171	0.26005	0.28567	14.686
4 Vinyl Chloride	0.29714	0.22673	0.23727	0.24123	0.23095	0.21948	0.24213	11.572
6 Bromomethane	0.11225	0.08053	0.08603	0.08434	0.07737	0.07002	0.08509	17.004
7 Chloroethane	0.15904	0.13563	0.14123	0.13698	0.12644	++++	0.13986	8.580
9 Trichlorofluoromethane	0.36507	0.30251	0.32074	0.32265	0.29034	0.28766	0.31483	9.106
10 Ethanol	++++	0.00102	0.00100	0.00095	0.00113	0.00099	0.00102	6.611
15 Acrolein	0.02465	0.02229	0.02229	0.02200	0.02203	0.02130	0.02243	5.119
17 1,1-Dichloroethene	0.28217	0.25923	0.25670	0.25439	0.23793	0.23241	0.25380	6.943
19 Acetone	++++	0.03363	0.03032	0.02956	0.02849	0.02835	0.03007	7.135
20 Iodomethane	0.31396	0.26962	0.26074	0.26675	0.25334	0.25579	0.27003	8.295
25 Acetonitrile	++++	0.01360	0.01284	0.01259	0.01246	0.01220	0.01274	4.197
26 Methylene Chloride	++++	0.26365	0.23528	0.21860	0.20857	0.20570	0.22636	10.531
27 tert-Butyl alcohol	0.00979	0.00958	0.00907	0.00979	0.01017	0.01021	0.00977	4.284
30 Acrylonitrile	0.04552	0.04169	0.04256	0.04357	0.04455	0.04502	0.04382	3.392
29 trans-1,2-Dichloroethene	0.32097	0.29215	0.28624	0.29017	0.28381	0.28356	0.29282	4.854
32 1,1-Dichloroethane	0.65302	0.60545	0.58354	0.59485	0.60661	0.57762	0.60352	4.451
34 Chloroprene	0.66167	0.61041	0.62045	0.61735	0.62379	0.61921	0.62548	2.922
33 Isopropyl ether	0.19849	0.19062	0.18557	0.18813	0.18237	0.17451	0.18661	4.320
38 cis-1,2-Dichloroethene	0.28927	0.27976	0.26370	0.26942	0.27181	0.27430	0.27471	3.237
37 2,2-Dichloropropane	0.45097	0.41167	0.38891	0.40118	0.39389	0.38715	0.40563	5.908
39 2-Butanone	0.04835	0.04759	0.04402	0.04534	0.04677	0.04719	0.04654	3.415
41 Propionitrile	0.01470	0.01401	0.01484	0.01519	0.01574	0.01563	0.01502	4.285

-WT. LINEAR

## STL Denver

## INITIAL CALIBRATION DATA

Start Cal Date : 02-MAR-2004 00:09  
 End Cal Date : 05-MAY-2004 15:46  
 Quant Method : ISTD  
 Origin : Disabled  
 Target Version : 3.40  
 Integrator : Falcon  
 Method file : /chem/C.i/050504i.b/C-20ml-AQ.m  
 Cal Date : 05-May-2004 16:06 meierg  
 Curve Type : Average

Compound	1.000 Level 1	2.000 Level 2	5.000 Level 3	10.000 Level 4	30.000 Level 5	60.000 Level 6	RRF	% RSD
44 Methacrylonitrile	0.07393	0.07246	0.07256	0.07364	0.07533	0.07637	0.07405	2.088
42 Bromochloromethane	0.07561	0.07334	0.07333	0.07760	0.07528	0.07394	0.07485	2.217
45 Chloroform	0.46871	0.45298	0.43753	0.43999	0.44442	0.44736	0.44850	2.521
47 1,1,1-Trichloroethane	0.48199	0.44724	0.44372	0.44924	0.44837	0.44334	0.45231	3.258
50 1,1-Dichloropropene	0.49289	0.45716	0.44431	0.43932	0.44797	0.45613	0.45630	4.206
49 Carbon Tetrachloride	0.41181	0.38747	0.38026	0.38945	0.38777	0.39355	0.39172	2.743
53 Isobutanol	0.00288	0.00292	0.00284	0.00293	0.00331	0.00323	0.00302	6.589
51 Benzene	1.23481	1.16719	1.14231	1.16639	1.20021	1.24428	1.19253	3.431
54 1,2-Dichloroethane	0.27933	0.26686	0.26868	0.26704	0.27145	0.27118	0.27076	1.712
57 Trichloroethene	0.25666	0.26148	0.25309	0.26261	0.25840	0.26441	0.25944	1.616
59 n-Butanol	0.00194	0.00184	0.00206	0.00231	0.00279	0.00287	0.00230	19.093
60 1,2-Dichloropropane	0.26597	0.27297	0.26410	0.27452	0.27803	0.28321	0.27313	2.643
62 Dibromomethane	0.07899	0.07595	0.07652	0.07754	0.08003	0.07894	0.07799	2.030
63 1,4-Dioxane	0.00074	0.00076	0.00073	0.00079	0.00085	0.00078	0.00078	5.587
65 Bromodichloromethane	0.24159	0.25102	0.25456	0.26496	0.27435	0.27889	0.26089	5.506
68 cis-1,3-Dichloropropene	1.73562	1.75350	1.76969	1.90162	2.04602	2.09141	1.88298	8.285
70 4-Methyl-2-pentanone	0.67174	0.63992	0.60733	0.60207	0.65615	0.67431	0.64192	4.891
71 Toluene	7.83841	7.57905	7.13413	7.30329	7.71907	7.70497	7.54649	3.606
72 trans-1,3-Dichloropropene	1.14502	1.21874	1.24866	1.32596	1.48892	1.52254	1.32497	11.466
74 1,1,2-Trichloroethane	0.75390	0.67880	0.67529	0.67955	0.68779	0.66487	0.69003	4.660
75 Tetrachloroethene	1.17633	1.24501	1.16409	1.19444	1.19379	1.18376	1.19290	2.343
76 1,3-Dichloropropane	1.24394	1.34073	1.29553	1.32079	1.37549	1.37848	1.32583	3.862
78 2-Hexanone	0.33595	0.36312	0.36545	0.39484	0.43296	0.44479	0.38952	10.962
79 Dibromochloromethane	0.59046	0.67266	0.69369	0.73272	0.77234	0.79875	0.71010	10.581
80 1,2-Dibromoethane	0.54585	0.56109	0.53250	0.56253	0.58755	0.58481	0.56239	3.817
82 Chlorobenzene	3.85573	3.79520	3.59181	3.69915	3.78456	3.86209	3.76475	2.742
83 1-Chlorohexane	2.63575	2.55677	2.52132	2.60014	2.66486	2.66969	2.60809	2.301
84 1,1,1,2-Tetrachloroethane	1.00458	1.05640	1.00266	1.01286	1.04595	1.01176	1.02237	2.240
85 Ethylbenzene	2.46228	2.53155	2.35588	2.44338	2.43917	2.40281	2.43918	2.415
86 m and p-Xylene	3.03002	3.07114	2.86484	2.95860	3.05065	2.95617	2.98857	2.577
87 o-Xylene	2.80879	2.66131	2.50054	2.60366	2.72909	2.69667	2.66668	3.990
88 Styrene	3.65325	3.93925	3.83896	4.08220	4.34231	4.41357	4.04492	7.273
89 Bromoform	0.25320	0.27698	0.25581	0.29140	0.32653	+++++	0.28078	10.691

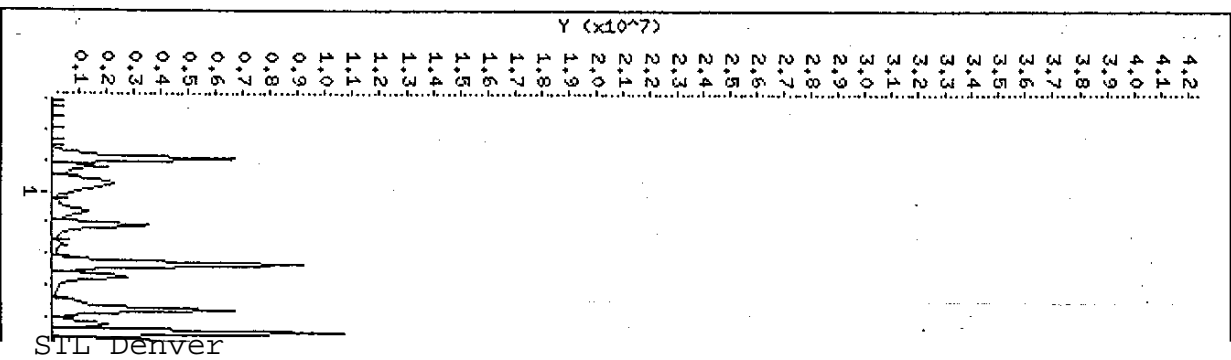
&lt;WT. LINEAR

STL Denver

INITIAL CALIBRATION DATA

Start Cal Date : 02-MAR-2004 00:09  
End Cal Date : 05-MAY-2004 15:46  
Quant Method : ISTD  
Origin : Disabled  
Target Version : 3.40  
Integrator : Falcon  
Method file : /chem/C.i/050504i.b/C-20ml-AQ.m  
Cal Date : 05-May-2004 16:06 meierg  
Curve Type : Average

Compound	1.000 Level 1	2.000 Level 2	5.000 Level 3	10.000 Level 4	30.000 Level 5	60.000 Level 6	RRF	% RSD
90 isopropyl benzene	7.73967	7.77346	7.44009	7.79394	8.34123	7.06039	7.69146	5.526
91 Cyclohexanone	0.02360	0.02266	0.02339	0.02455	0.02773	0.02701	0.02482	8.358
94 Bromobenzene	0.89717	0.89836	0.84317	0.86786	0.89501	0.93444	0.88933	3.485
95 1,1,2,2-Tetrachloroethane	0.63146	0.58148	0.57537	0.57636	0.60552	0.56736	0.58959	4.115
96 1,2,3-Trichloropropane	0.14812	0.13906	0.15223	0.13707	0.14390	0.14221	0.14377	3.934
97 n-Propylbenzene	1.56420	1.56959	1.50106	1.51447	1.53084	1.55802	1.53970	1.846
99 2-Chlorotoluene	1.14139	1.20267	1.11188	1.14150	1.14924	1.16808	1.15246	2.650
100 4-Chlorotoluene	1.14564	1.17922	1.09618	1.10627	1.09633	1.09736	1.12017	3.091
101 1,3,5-Trimethylbenzene	4.88625	5.08435	4.88142	5.07604	5.17132	5.12556	5.03749	2.457
102 tert-Butylbenzene	3.86519	3.92747	3.68928	3.89569	4.00842	4.13278	3.91980	3.784
103 1,2,4-Trimethylbenzene	4.69119	4.76928	4.56024	4.68559	4.89613	4.94111	4.75726	2.996
104 sec-Butylbenzene	1.17275	1.19747	1.14537	1.19021	1.15581	1.15646	1.16968	1.777
105 m-Dichlorobenzene	1.92095	1.94627	1.79656	1.82571	1.86203	1.93749	1.88150	3.327
106 4-Isopropyltoluene	5.01404	4.83718	4.67652	4.89353	5.07739	5.04695	4.92427	3.099
108 p-dichlorobenzene	1.80393	1.85007	1.70879	1.73845	1.73780	1.81639	1.77590	3.113
110 o-Dichlorobenzene	1.49842	1.39516	1.37149	1.42611	1.40790	1.42533	1.42073	3.040
111 n-Butylbenzene	5.47951	5.31779	5.03845	5.19763	5.32715	5.17349	5.25567	2.903
112 1,2-Dibromo-3-chloropropane	0.04506	0.04806	0.05234	0.05264	0.05688	0.06162	0.05277	11.281
113 1,2,4-Trichlorobenzene	0.97872	0.79377	0.79134	0.78315	0.77841	0.82233	0.82462	9.341
114 Hexachlorobutadiene	0.70588	0.63675	0.59778	0.59630	0.56670	0.57289	0.61272	8.466
115 Naphthalene	1.30478	1.13258	1.10272	1.14595	1.20874	1.30019	1.19916	7.272
116 1,2,3-Trichlorobenzene	0.72836	0.63935	0.58468	0.60828	0.60295	0.63981	0.63390	8.052



Data File: /chem/C.i/0  
Date: 05-MAY-2004 15:  
Client ID: main060  
Sample Info: main060  
Purge Volume: 20.0  
Column phase: DB624

INITIAL CALIBRATION REPORT

Instrument ID: C.i  
Lab File ID: c0309.d  
Analysis Type: WATER

Injection Date: 05-MAY-2004 15:46  
Lab Sample ID: main060  
Method File: /chem/C.i/050504i.b/C-20ml-AQ.m

COMPOUND	%RSD
=====	=====
dichlorodifluoromethane	12.1
Chloromethane	14.7
Vinyl Chloride	11.6
Bromomethane	17.0
Chloroethane	8.6
Trichlorofluoromethane	9.1
Ethanol	6.6
Acrolein	5.1
1,1-Dichloroethene	6.9
1,2-Dichloroethene (total)	3.9
Acetone	7.1
Iodomethane	8.3
Xylene (total)	2.8
Acetonitrile	4.2
Methylene Chloride	10.5
tert-Butyl alcohol	4.3
trans-1,2-Dichloroethene	4.9
Acrylonitrile	3.4
1,1-Dichloroethane	4.5
Isopropyl ether	4.3
Chloroprene	2.9
2,2-Dichloropropane	5.9
cis-1,2-Dichloroethene	3.2
2-Butanone	3.4
Propionitrile	4.3
Bromochloromethane	2.2
Methacrylonitrile	2.1
Chloroform	2.5
1,1,1-Trichloroethane	3.3
Carbon Tetrachloride	2.7
1,1-Dichloropropene	4.2
Benzene	3.4
Isobutanol	6.6
1,2-Dichloroethane	1.7
Trichloroethene	1.6
n-Butanol	19.1
1,2-Dichloropropane	2.6
Dibromomethane	2.0
1,4-Dioxane	5.6

INITIAL CALIBRATION REPORT

Instrument ID: C.i  
Lab File ID: c0309.d  
Analysis Type: WATER

Injection Date: 05-MAY-2004 15:46  
Lab Sample ID: main060  
Method File: /chem/C.i/050504i.b/C-20ml-AQ.m

COMPOUND	%RSD
-----	-----
Bromodichloromethane	5.5
cis-1,3-Dichloropropene	8.3
4-Methyl-2-pentanone	4.9
Toluene	3.6
trans-1,3-Dichloropropene	11.5
Tetrachloroethene	2.3
1,1,2-Trichloroethane	4.7
1,3-Dichloropropane	3.9
2-Hexanone	11.0
Dibromochloromethane	10.6
1,2-Dibromoethane	3.8
Chlorobenzene	2.7
1-Chlorohexane	2.3
1,1,1,2-Tetrachloroethane	2.2
Ethylbenzene	2.4
m and p-Xylene	2.6
o-Xylene	4.0
Styrene	7.3
Bromoform	10.7
isopropyl benzene	5.5
Cyclohexanone	8.4
Bromobenzene	3.5
1,1,2,2-Tetrachloroethane	4.1
n-Propylbenzene	1.8
1,2,3-Trichloropropane	3.9
2-Chlorotoluene	2.7
4-Chlorotoluene	3.1
1,3,5-Trimethylbenzene	2.5
tert-Butylbenzene	3.8
1,2,4-Trimethylbenzene	3.0
sec-Butylbenzene	1.8
m-Dichlorobenzene	3.3
4-Isopropyltoluene	3.1
p-dichlorobenzene	3.1
o-Dichlorobenzene	3.0
n-Butylbenzene	2.9
1,2-Dibromo-3-chloropropane	11.3
1,2,4-Trichlorobenzene	9.3
Hexachlorobutadiene	8.5

INITIAL CALIBRATION REPORT

Instrument ID: C.i  
Lab File ID: c0309.d  
Analysis Type: WATER

Injection Date: 05-MAY-2004 15:46  
Lab Sample ID: main060  
Method File: /chem/C.i/050504i.b/C-20ml-AQ.m

COMPOUND	%RSD
=====	=====
Naphthalene	7.3
1,2,3-Trichlorobenzene	8.1

The average of all %RSD's in the initial calibration is 5.5



STL Denver

VOLATILE REPORT SW-846

Data file : /chem/C.i/050504i.b/c0304.d  
Lab Smp Id: main001 Client Smp ID: main001  
Inj Date : 05-MAY-2004 13:47  
Operator : reinharj Inst ID: C.i  
Smp Info : main001  
Misc Info :  
Comment : Purge and Trap Analysis  
Method : /chem/C.i/050504i.b/C-20ml-AQ.m  
Meth Date : 05-May-2004 16:11 meierg Quant Type: ISTD  
Cal Date : 19-APR-2004 21:44 Cal File: c0274.d  
Als bottle: 2 Calibration Sample, Level: 1  
Dil Factor: 1.00000  
Integrator: Falcon Compound Sublist: 1-main.sub  
Target Version: 3.40  
Processing Host: chemsv02

Concentration Formula: Amt \* DF \* Vp/Vs

Name	Value	Description
DF	1.000	Dilution Factor
Vp	20.000	Final Purge Volume (ml)
Vs	20.000	Sample Volume (ml)

Compounds	QUANT SIG				AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT ( ug/L)
						ON-COL ( ug/L)
* 56 Fluorobenzene	96	4.108	4.107	(1.000)	1390765	10.0000
* 81 Chlorobenzene-d5	119	7.564	7.564	(1.000)	226144	10.0000
* 107 1,4-Dichlorobenzene-d4	152	9.722	9.721	(1.000)	280315	10.0000
M 12 1,2-Dichloroethene (total)	96				84870	2.00000 2.07733
M 18 Xylene (total)	106				200563	3.00000 3.05888
1 dichlorodifluoromethane	85	0.836	0.836	(0.203)	44070	1.00000 1.14260(a)
3 Chloromethane	50	0.918	0.930	(0.223)	51428	1.00000 1.17372(a)
4 Vinyl Chloride	62	0.953	0.966	(0.232)	41325	1.00000 1.09142(a)
6 Bromomethane	94	1.106	1.107	(0.269)	15612	1.00000 1.21124(a)
7 Chloroethane	64	1.118	1.130	(0.272)	22119	1.00000 1.13712(a)
9 Trichlorofluoromethane	101	1.212	1.224	(0.295)	50772	1.00000 1.05052(a)
10 Ethanol	45	1.329	1.342	(0.324)	9038	50.0000 60.6541(a)
15 Acrolein	56	1.447	1.447	(0.352)	34284	10.0000 10.1608(a)
17 1,1-Dichloroethene	96	1.459	1.459	(0.355)	39243	1.00000 1.05023
19 Acetone	43	1.529	1.530	(0.372)	23358	4.00000 4.99350(a)
20 Iodomethane	142	1.541	1.553	(0.375)	43665	1.00000 1.11310

Compounds	QUANT SIG					AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT ( ug/L)	ON-COL ( ug/L)
=====	=====	==	=====	=====	=====	=====	=====
25 Acetonitrile	41	1.705	1.718	(0.415)	22741	10.0000	11.9752(a)
26 Methylene Chloride	84	1.752	1.753	(0.427)	46768	1.00000	1.39624
27 tert-Butyl alcohol	59	1.835	1.835	(0.447)	27234	20.0000	19.0099(a)
30 Acrylonitrile	53	1.952	1.953	(0.475)	63301	10.0000	9.85629(a)
29 trans-1,2-Dichloroethene	96	1.893	1.894	(0.461)	44639	1.00000	1.04542
32 1,1-Dichloroethane	63	2.211	2.211	(0.538)	90820	1.00000	1.06792
34 Chloroprene	53	2.258	2.258	(0.550)	92023	1.00000	1.04644
33 Isopropyl ether	87	2.234	2.235	(0.544)	138023	5.00000	5.29936(a)
38 cis-1,2-Dichloroethene	96	2.712	2.717	(0.660)	40231	1.00000	1.03191
37 2,2-Dichloropropane	77	2.681	2.687	(0.653)	62720	1.00000	1.05828(a)
39 2-Butanone	43	2.778	2.778	(0.676)	26896	4.00000	4.04314(a)
41 Propionitrile	54	2.893	2.899	(0.704)	20445	10.0000	9.57682
44 Methacrylonitrile	41	3.020	3.020	(0.735)	102825	10.0000	9.83620
42 Bromochloromethane	128	2.953	2.953	(0.719)	10516	1.00000	0.994610(a)
45 Chloroform	83	3.050	3.056	(0.743)	65187	1.00000	1.02459
47 1,1,1-Trichloroethane	97	3.183	3.189	(0.775)	67033	1.00000	1.03772
50 1,1-Dichloropropene	75	3.395	3.394	(0.826)	68550	1.00000	1.06081(a)
49 Carbon Tetrachloride	117	3.328	3.334	(0.810)	57273	1.00000	1.04479
53 Isobutanol	41	3.781	3.775	(0.921)	8024	20.0000	19.1599
51 Benzene	78	3.642	3.642	(0.887)	171733	1.00000	1.01070
54 1,2-Dichloroethane	62	3.787	3.787	(0.922)	38848	1.00000	1.00649
57 Trichloroethene	130	4.603	4.609	(1.121)	35696	1.00000	0.988948(a)
59 n-Butanol	56	4.797	4.784	(1.168)	5410	20.0000	16.6501(a)
60 1,2-Dichloropropane	63	4.954	4.947	(1.206)	36990	1.00000	0.951739(a)
62 Dibromomethane	93	5.087	5.086	(1.238)	10985	1.00000	0.995976(a)
63 1,4-Dioxane	88	5.153	5.141	(1.254)	5135	50.0000	47.8426(a)
65 Bromodichloromethane	83	5.310	5.316	(1.293)	33599	1.00000	0.913646(a)
68 cis-1,3-Dichloropropene	75	5.860	5.866	(0.775)	39250	1.00000	0.898548(a)
70 4-Methyl-2-pentanone	43	6.090	6.089	(0.805)	60764	4.00000	4.15774(a)
71 Toluene	91	6.150	6.156	(0.813)	177261	1.00000	1.01409
72 trans-1,3-Dichloropropene	75	6.519	6.518	(0.862)	25894	1.00000	0.842548(a)
74 1,1,2-Trichloroethane	97	6.688	6.688	(0.884)	17049	1.00000	1.07546
75 Tetrachloroethene	164	6.688	6.688	(0.884)	26602	1.00000	0.984519(a)
76 1,3-Dichloropropane	76	6.845	6.845	(0.905)	28131	1.00000	0.919814(a)
78 2-Hexanone	43	6.984	6.984	(0.923)	30389	4.00000	3.44196(a)
79 Dibromochloromethane	129	7.020	7.020	(0.928)	13353	1.00000	0.832693(a)
80 1,2-Dibromoethane	107	7.105	7.105	(0.939)	12344	1.00000	0.964003(a)
82 Chlorobenzene	112	7.588	7.588	(1.003)	87195	1.00000	1.01921
83 1-Chlorohexane	91	7.625	7.630	(1.008)	59606	1.00000	1.00656(a)
84 1,1,1,2-Tetrachloroethane	131	7.697	7.703	(1.018)	22718	1.00000	0.969340(a)
85 Ethylbenzene	106	7.703	7.709	(1.018)	55683	1.00000	1.00448
86 m and p-Xylene	106	7.830	7.830	(1.035)	137044	2.00000	2.01163
87 o-Xylene	106	8.193	8.192	(1.083)	63519	1.00000	1.04724
88 Styrene	104	8.223	8.223	(1.087)	82616	1.00000	0.900119(a)
89 Bromoform	173	8.368	8.368	(1.106)	5726	1.00000	0.901768(a)
90 isopropyl benzene	105	8.543	8.543	(1.129)	175028	1.00000	0.971822(a)
91 Cyclohexanone	55	8.646	8.639	(1.143)	21345	40.0000	23.1872(a)

Compounds	QUANT SIG					AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT ( ug/L)	ON-COL ( ug/L)
=====	=====	==	=====	=====	=====	=====	=====
94 Bromobenzene	156	8.791	8.791	(0.904)	25149	1.00000	1.01117(a)
95 1,1,2,2-Tetrachloroethane	83	8.894	8.899	(1.176)	14280	1.00000	1.05039
96 1,2,3-Trichloropropane	110	8.918	8.917	(0.917)	4152	1.00000	1.02085
97 n-Propylbenzene	120	8.918	8.917	(0.917)	43847	1.00000	1.01266(a)
99 2-Chlorotoluene	126	8.978	8.984	(0.924)	31995	1.00000	0.981199(a)
100 4-Chlorotoluene	126	9.093	9.093	(0.935)	32114	1.00000	1.01812(a)
101 1,3,5-Trimethylbenzene	105	9.099	9.099	(0.936)	136969	1.00000	0.951376(a)
102 tert-Butylbenzene	119	9.365	9.365	(0.963)	108347	1.00000	0.973046(a)
103 1,2,4-Trimethylbenzene	105	9.425	9.425	(0.970)	131501	1.00000	0.970963(a)
104 sec-Butylbenzene	134	9.564	9.570	(0.984)	32874	1.00000	0.994009(a)
105 m-Dichlorobenzene	146	9.649	9.649	(0.993)	53847	1.00000	1.02626
106 4-Isopropyltoluene	119	9.709	9.715	(0.999)	140551	1.00000	1.00822(a)
108 p-dichlorobenzene	146	9.740	9.745	(1.002)	50567	1.00000	1.02202
110 o-Dichlorobenzene	146	10.060	10.060	(1.035)	42003	1.00000	1.05670
111 n-Butylbenzene	91	10.072	10.072	(1.036)	153599	1.00000	1.02373(a)
112 1,2-Dibromo-3-chloropropane	157	10.767	10.773	(1.108)	1263	1.00000	0.863403(a)
113 1,2,4-Trichlorobenzene	180	11.432	11.431	(1.176)	27435	1.00000	1.18664(a)
114 Hexachlorobutadiene	225	11.546	11.540	(1.188)	19787	1.00000	1.15669(a)
115 Naphthalene	128	11.595	11.594	(1.193)	36575	1.00000	1.06808
116 1,2,3-Trichlorobenzene	180	11.758	11.758	(1.209)	20417	1.00000	1.14218(a)

# QC Flag Legend

a - Target compound detected but, quantitated amount  
 Below Limit Of Quantitation(BLOQ).

STL Denver

INTERNAL STANDARD COMPOUNDS  
AREA AND RT SUMMARY

Instrument ID: C.i  
Lab File ID: c0304.d  
Lab Smp Id: main001  
Analysis Type: VOA  
Quant Type: ISTD  
Operator: reinharj  
Method File: /chem/C.i/050504i.b/C-20ml-AQ.m  
Misc Info:

Calibration Date: 05/05/4  
Calibration Time: 1459  
Client Smp ID: main001  
Level: LOW  
Sample Type: WATER

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
56 Fluorobenzene	1828430	914215	3656860	1390765	-23.94
81 Chlorobenzene-d5	300471	150236	600942	226144	-24.74
107 1,4-Dichlorobenze	353909	176954	707818	280315	-20.79

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
56 Fluorobenzene	4.11	3.61	4.61	4.11	0.01
81 Chlorobenzene-d5	7.56	7.06	8.06	7.56	0.00
107 1,4-Dichlorobenze	9.72	9.22	10.22	9.72	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/C.i/050504i.b/c0304.d

Date : 05-MAY-2004 13:47

Client ID: main001

Sample Info: main001

Purge Volume: 20.0

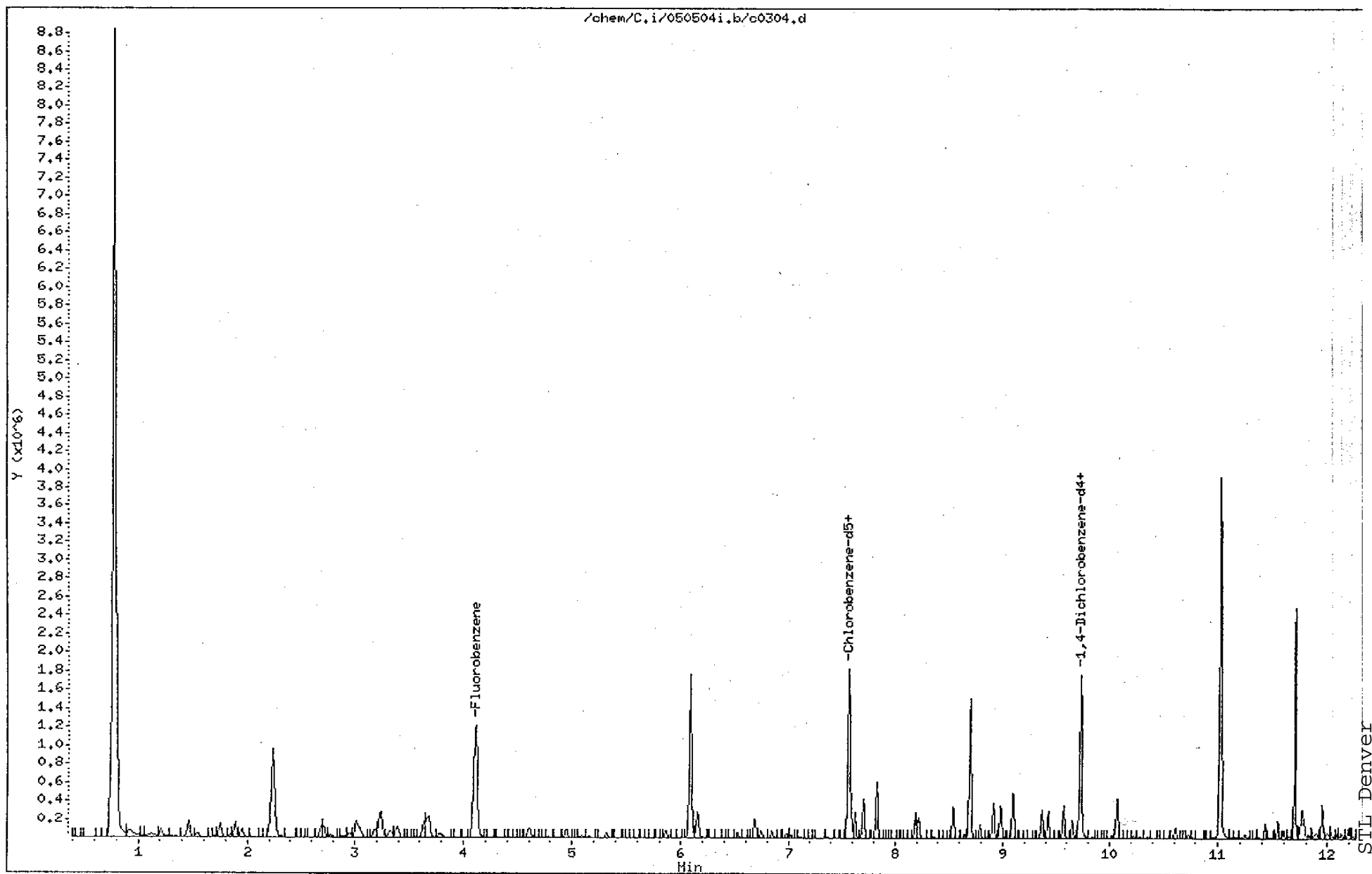
Column phase: DB624

Instrument: C.i

Operator: reinharj

Column diameter: 0.53

Page 5



STL Denver

VOLATILE REPORT SW-846

Data file : /chem/C.i/050504i.b/c0305.d  
Lab Smp Id: main002 Client Smp ID: main002  
Inj Date : 05-MAY-2004 14:11  
Operator : reinharj Inst ID: C.i  
Smp Info : main002  
Misc Info :  
Comment : Purge and Trap Analysis  
Method : /chem/C.i/050504i.b/C-20ml-AQ.m  
Meth Date : 05-May-2004 16:11 meierg Quant Type: ISTD  
Cal Date : 19-APR-2004 21:44 Cal File: c0274.d  
Als bottle: 2 Calibration Sample, Level: 2  
Dil Factor: 1.00000  
Integrator: Falcon Compound Sublist: 1-main.sub  
Target Version: 3.40  
Processing Host: chemsv02

Concentration Formula: Amt \* DF \* Vp/Vs

Name	Value	Description
DF	1.000	Dilution Factor
Vp	20.000	Final Purge Volume (ml)
Vs	20.000	Sample Volume (ml)

AMOUNTS

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CAL-AMT ( ug/L)	ON-COL ( ug/L)
* 56 Fluorobenzene	96	4.108	4.107	(1.000)	1767357	10.0000	
* 81 Chlorobenzene-d5	119	7.564	7.564	(1.000)	280311	10.0000	
* 107 1,4-Dichlorobenzene-d4	152	9.722	9.721	(1.000)	327729	10.0000	
M 12 1,2-Dichloroethene (total)	96				202153	4.00000	3.89906
M 18 Xylene (total)	106				493549	6.00000	6.06239
1 dichlorodifluoromethane	85	0.838	0.836	(0.204)	88490	2.00000	1.80540(a)
3 Chloromethane	50	0.920	0.930	(0.224)	97638	2.00000	1.75354(a)
4 Vinyl Chloride	62	0.944	0.966	(0.230)	80143	2.00000	1.66562(a)
6 Bromomethane	94	1.097	1.107	(0.267)	28466	2.00000	1.73792(a)
7 Chloroethane	64	1.120	1.130	(0.273)	47942	2.00000	1.93948(a)
9 Trichlorofluoromethane	101	1.214	1.224	(0.296)	106928	2.00000	1.74100(a)
10 Ethanol	45	1.343	1.342	(0.327)	17958	100.000	94.8364(a)
15 Acrolein	56	1.449	1.447	(0.353)	78774	20.0000	18.3716(a)
17 1,1-Dichloroethene	96	1.461	1.459	(0.356)	91632	2.00000	1.92974
19 Acetone	43	1.532	1.530	(0.373)	47545	8.00000	7.99841(a)
20 Iodomethane	142	1.543	1.553	(0.376)	95303	2.00000	1.91178

Compounds	QUANT SIG			EXP RT	REL RT	RESPONSE	AMOUNTS	
	MASS	RT					CAL-AMT ( ug/L)	ON-COL ( ug/L)
25 Acetonitrile	41	1.708		1.718	(0.416)	48076	20.0000	19.9220(a)
26 Methylene Chloride	84	1.755		1.753	(0.427)	93191	2.00000	2.18934
27 tert-Butyl alcohol	59	1.837		1.835	(0.447)	67704	40.0000	37.1888(a)
30 Acrylonitrile	53	1.955		1.953	(0.476)	147360	20.0000	18.0556(a)
29 trans-1,2-Dichloroethene	96	1.896		1.894	(0.462)	103267	2.00000	1.90313
32 1,1-Dichloroethane	63	2.213		2.211	(0.539)	214011	2.00000	1.98027
34 Chloroprene	53	2.260		2.258	(0.550)	215764	2.00000	1.93076
33 Isopropyl ether	87	2.237		2.235	(0.544)	336898	10.0000	10.1789
38 cis-1,2-Dichloroethene	96	2.718		2.717	(0.662)	98886	2.00000	1.99593
37 2,2-Dichloropropane	77	2.688		2.687	(0.654)	145515	2.00000	1.93211(a)
39 2-Butanone	43	2.778		2.778	(0.676)	67281	8.00000	7.95890
41 Propionitrile	54	2.899		2.899	(0.706)	49533	20.0000	18.2582
44 Methacrylonitrile	41	3.014		3.020	(0.734)	256129	20.0000	19.2804
42 Bromochloromethane	128	2.954		2.953	(0.719)	25925	2.00000	1.92952
45 Chloroform	83	3.050		3.056	(0.743)	160114	2.00000	1.98038
47 1,1,1-Trichloroethane	97	3.183		3.189	(0.775)	158086	2.00000	1.92582
50 1,1-Dichloropropene	75	3.395		3.394	(0.826)	161593	2.00000	1.96780(a)
49 Carbon Tetrachloride	117	3.328		3.334	(0.810)	136961	2.00000	1.96610
53 Isobutanol	41	3.781		3.775	(0.921)	20649	40.0000	38.8000
51 Benzene	78	3.636		3.642	(0.885)	412569	2.00000	1.91072
54 1,2-Dichloroethane	62	3.781		3.787	(0.921)	94329	2.00000	1.92316
57 Trichloroethene	130	4.609		4.609	(1.122)	92424	2.00000	2.01497
59 n-Butanol	56	4.785		4.784	(1.165)	12999	40.0000	31.4817(a)
60 1,2-Dichloropropane	63	4.954		4.947	(1.206)	96488	2.00000	1.95360
62 Dibromomethane	93	5.087		5.086	(1.238)	26847	2.00000	1.91546
63 1,4-Dioxane	88	5.147		5.141	(1.253)	13476	100.000	98.8017(a)
65 Bromodichloromethane	83	5.316		5.316	(1.294)	88728	2.00000	1.89864
68 cis-1,3-Dichloropropene	75	5.860		5.866	(0.775)	98305	2.00000	1.81561
70 4-Methyl-2-pentanone	43	6.090		6.089	(0.805)	143502	8.00000	7.92161
71 Toluene	91	6.150		6.156	(0.813)	424898	2.00000	1.96107
72 trans-1,3-Dichloropropene	75	6.519		6.518	(0.862)	68325	2.00000	1.79358
74 1,1,2-Trichloroethane	97	6.688		6.688	(0.884)	38055	2.00000	1.93665
75 Tetrachloroethene	164	6.688		6.688	(0.884)	69798	2.00000	2.08400
76 1,3-Dichloropropane	76	6.845		6.845	(0.905)	75164	2.00000	1.98276(a)
78 2-Hexanone	43	6.984		6.984	(0.923)	81429	8.00000	7.44069
79 Dibromochloromethane	129	7.020		7.020	(0.928)	37711	2.00000	1.89722
80 1,2-Dibromoethane	107	7.105		7.105	(0.939)	31456	2.00000	1.98185
82 Chlorobenzene	112	7.589		7.588	(1.003)	212767	2.00000	2.00642
83 1-Chlorohexane	91	7.625		7.630	(1.008)	143338	2.00000	1.95279(a)
84 1,1,1,2-Tetrachloroethane	131	7.703		7.703	(1.018)	59224	2.00000	2.03868
85 Ethylbenzene	106	7.703		7.709	(1.018)	141924	2.00000	2.06548
86 m and p-Xylene	106	7.830		7.830	(1.035)	344350	4.00000	4.07787
87 o-Xylene	106	8.193		8.192	(1.083)	149199	2.00000	1.98452
88 Styrene	104	8.223		8.223	(1.087)	220843	2.00000	1.94117
89 Bromoform	173	8.368		8.368	(1.106)	15528	2.00000	1.97289
90 isopropyl benzene	105	8.537		8.543	(1.129)	435797	2.00000	1.95213
91 Cyclohexanone	55	8.646		8.639	(1.143)	50814	80.0000	44.5328(a)

Compounds	QUANT SIG					AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT ( ug/L)	ON-COL ( ug/L)
=====	=====	==	=====	=====	=====	=====	=====
94 Bromobenzene	156	8.791	8.791	(0.904)	58884	2.00000	2.02503(a)
95 1,1,2,2-Tetrachloroethane	83	8.900	8.899	(1.177)	32599	2.00000	1.93451
96 1,2,3-Trichloropropane	110	8.912	8.917	(0.917)	9115	2.00000	1.91686
97 n-Propylbenzene	120	8.918	8.917	(0.917)	102880	2.00000	2.03230(a)
99 2-Chlorotoluene	126	8.978	8.984	(0.924)	78830	2.00000	2.06775(a)
100 4-Chlorotoluene	126	9.093	9.093	(0.935)	77293	2.00000	2.09593(a)
101 1,3,5-Trimethylbenzene	105	9.099	9.099	(0.936)	333258	2.00000	1.97989(a)
102 tert-Butylbenzene	119	9.365	9.365	(0.963)	257429	2.00000	1.97745(a)
103 1,2,4-Trimethylbenzene	105	9.426	9.425	(0.970)	312606	2.00000	1.97425(a)
104 sec-Butylbenzene	134	9.565	9.570	(0.984)	78489	2.00000	2.02992(a)
105 m-Dichlorobenzene	146	9.649	9.649	(0.993)	127570	2.00000	2.07957
106 4-Isopropyltoluene	119	9.710	9.715	(0.999)	317057	2.00000	1.94531(a)
108 p-dichlorobenzene	146	9.740	9.745	(1.002)	121264	2.00000	2.09631
110 o-Dichlorobenzene	146	10.060	10.060	(1.035)	91447	2.00000	1.96777
111 n-Butylbenzene	91	10.072	10.072	(1.036)	348559	2.00000	1.98703(a)
112 1,2-Dibromo-3-chloropropane	157	10.773	10.773	(1.108)	3150	2.00000	1.84184(a)
113 1,2,4-Trichlorobenzene	180	11.432	11.431	(1.176)	52028	2.00000	1.92478(a)
114 Hexachlorobutadiene	225	11.541	11.540	(1.187)	41736	2.00000	2.08679(a)
115 Naphthalene	128	11.595	11.594	(1.193)	74236	2.00000	1.85423
116 1,2,3-Trichlorobenzene	180	11.764	11.758	(1.210)	41907	2.00000	2.00521(a)

# QC Flag Legend

a - Target compound detected but, quantitated amount  
Below Limit Of Quantitation(BLOQ).



STL Denver

INTERNAL STANDARD COMPOUNDS  
AREA AND RT SUMMARY

Instrument ID: C.i	Calibration Date: 05/05/4
Lab File ID: c0305.d	Calibration Time: 1459
Lab Smp Id: main002	Client Smp ID: main002
Analysis Type: VOA	Level: LOW
Quant Type: ISTD	Sample Type: WATER
Operator: reinharj	
Method File: /chem/C.i/050504i.b/C-20ml-AQ.m	
Misc Info:	

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
56 Fluorobenzene	1828430	914215	3656860	1767357	-3.34
81 Chlorobenzene-d5	300471	150236	600942	280311	-6.71
107 1,4-Dichlorobenze	353909	176954	707818	327729	-7.40

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
56 Fluorobenzene	4.11	3.61	4.61	4.11	0.01
81 Chlorobenzene-d5	7.56	7.06	8.06	7.56	0.01
107 1,4-Dichlorobenze	9.72	9.22	10.22	9.72	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/C.i/050504i.b/c0305.d

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Date : 05-MAY-2004 14:11

Client ID: main002

Instrument: C.i

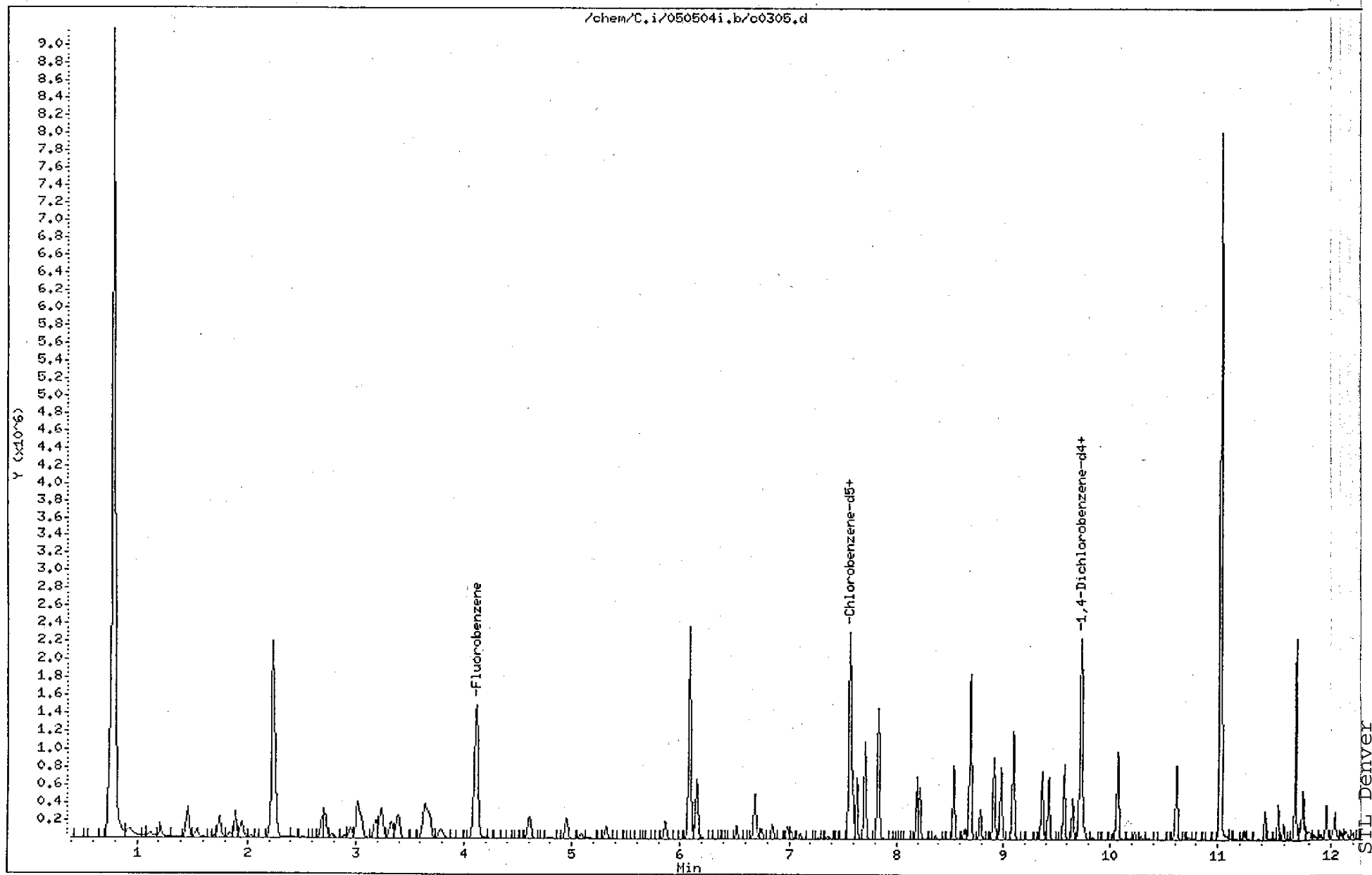
Sample Info: main002

Purge Volume: 20.0

Operator: reinharj

Column phase: DB624

Column diameter: 0.53



STL Denver

VOLATILE REPORT SW-846

Data file : /chem/C.i/050504i.b/c0306.d  
Lab Smp Id: main005 Client Smp ID: main005  
Inj Date : 05-MAY-2004 14:35  
Operator : reinharj Inst ID: C.i  
Smp Info : main005  
Misc Info :  
Comment : Purge and Trap Analysis  
Method : /chem/C.i/050504i.b/C-20ml-AQ.m  
Meth Date : 05-May-2004 16:11 meierg Quant Type: ISTD  
Cal Date : 19-APR-2004 21:44 Cal File: c0274.d  
Als bottle: 2 Calibration Sample, Level: 3  
Dil Factor: 1.00000  
Integrator: Falcon Compound Sublist: 1-main.sub  
Target Version: 3.40  
Processing Host: chemsv02

Concentration Formula: Amt \* DF \* Vp/Vs

Name	Value	Description
DF	1.000	Dilution Factor
Vp	20.000	Final Purge Volume (ml)
Vs	20.000	Sample Volume (ml)

Compounds	QUANT SIG				AMOUNTS		
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT ( ug/L)	ON-COL ( ug/L)
* 56 Fluorobenzene	96	4.106	4.107	(1.000)	1773271	10.0000	
* 81 Chlorobenzene-d5	119	7.563	7.564	(1.000)	292881	10.0000	
* 107 1,4-Dichlorobenzene-d4	152	9.720	9.721	(1.000)	345178	10.0000	
M 12 1,2-Dichloroethene (total)	96				487599	10.0000	9.36504
M 18 Xylene (total)	106				1205237	15.0000	14.1714
1 dichlorodifluoromethane	85	0.836	0.836	(0.204)	222724	5.00000	4.52893
3 Chloromethane	50	0.930	0.930	(0.226)	248189	5.00000	4.44250
4 Vinyl Chloride	62	0.953	0.966	(0.232)	210369	5.00000	4.35754
6 Bromomethane	94	1.106	1.107	(0.269)	76280	5.00000	4.64154
7 Chloroethane	64	1.130	1.130	(0.275)	125218	5.00000	5.04878
9 Trichlorofluoromethane	101	1.224	1.224	(0.298)	284380	5.00000	4.61483
10 Ethanol	45	1.341	1.342	(0.327)	44376	250.000	233.569
15 Acrolein	56	1.447	1.447	(0.352)	197636	50.0000	45.9388
17 1,1-Dichloroethene	96	1.459	1.459	(0.355)	227601	5.00000	4.77722
19 Acetone	43	1.529	1.530	(0.372)	107517	20.0000	18.0271
20 Iodomethane	142	1.553	1.553	(0.378)	231177	5.00000	4.62195

Compounds	QUANT SIG				AMOUNTS		
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT ( ug/L)	ON-COL ( ug/L)
=====	=====	==	=====	=====	=====	=====	=====
25 Acetonitrile	41	1.705	1.718	(0.415)	113803	50.0000	47.0011
26 Methylene Chloride	84	1.752	1.753	(0.427)	208612	5.00000	4.88459
27 tert-Butyl alcohol	59	1.835	1.835	(0.447)	160858	100.000	88.0624
30 Acrylonitrile	53	1.952	1.953	(0.475)	377367	50.0000	46.0835
29 trans-1,2-Dichloroethene	96	1.893	1.894	(0.461)	253794	5.00000	4.66162
32 1,1-Dichloroethane	63	2.211	2.211	(0.538)	517385	5.00000	4.77146
34 Chloroprene	53	2.258	2.258	(0.550)	550113	5.00000	4.90625
33 Isopropyl ether	87	2.234	2.235	(0.544)	822660	25.0000	24.7726
38 cis-1,2-Dichloroethene	96	2.717	2.717	(0.662)	233805	5.00000	4.70341
37 2,2-Dichloropropane	77	2.686	2.687	(0.654)	344819	5.00000	4.56315(a)
39 2-Butanone	43	2.777	2.778	(0.676)	156123	20.0000	18.4067
41 Propionitrile	54	2.898	2.899	(0.706)	131605	50.0000	48.3488
44 Methacrylonitrile	41	3.013	3.020	(0.734)	643351	50.0000	48.2675
42 Bromochloromethane	128	2.952	2.953	(0.719)	65015	5.00000	4.82274
45 Chloroform	83	3.055	3.056	(0.744)	387932	5.00000	4.78216
47 1,1,1-Trichloroethane	97	3.188	3.189	(0.776)	393414	5.00000	4.77663
50 1,1-Dichloropropene	75	3.393	3.394	(0.826)	393940	5.00000	4.78121(a)
49 Carbon Tetrachloride	117	3.333	3.334	(0.812)	337150	5.00000	4.82370
53 Isobutanol	41	3.780	3.775	(0.921)	50281	100.000	94.1642
51 Benzene	78	3.641	3.642	(0.887)	1012814	5.00000	4.67496
54 1,2-Dichloroethane	62	3.792	3.787	(0.923)	238224	5.00000	4.84066
57 Trichloroethene	130	4.608	4.609	(1.122)	224402	5.00000	4.87595
59 n-Butanol	56	4.789	4.784	(1.166)	36462	100.000	88.0113
60 1,2-Dichloropropane	63	4.946	4.947	(1.205)	234160	5.00000	4.72525
62 Dibromomethane	93	5.085	5.086	(1.238)	67848	5.00000	4.82464
63 1,4-Dioxane	88	5.146	5.141	(1.253)	32411	250.000	236.834
65 Bromodichloromethane	83	5.315	5.316	(1.294)	225703	5.00000	4.81357
68 cis-1,3-Dichloropropene	75	5.865	5.866	(0.775)	259154	5.00000	4.58092
70 4-Methyl-2-pentanone	43	6.088	6.089	(0.805)	355753	20.0000	18.7955
71 Toluene	91	6.149	6.156	(0.813)	1044726	5.00000	4.61488
72 trans-1,3-Dichloropropene	75	6.524	6.518	(0.863)	182854	5.00000	4.59403
74 1,1,2-Trichloroethane	97	6.687	6.688	(0.884)	98890	5.00000	4.81660
75 Tetrachloroethene	164	6.687	6.688	(0.884)	170470	5.00000	4.87138
76 1,3-Dichloropropane	76	6.850	6.845	(0.906)	189718	5.00000	4.78980(a)
78 2-Hexanone	43	6.983	6.984	(0.923)	214068	20.0000	18.7212
79 Dibromochloromethane	129	7.019	7.020	(0.928)	101584	5.00000	4.89131
80 1,2-Dibromoethane	107	7.104	7.105	(0.939)	77979	5.00000	4.70212
82 Chlorobenzene	112	7.587	7.588	(1.003)	525986	5.00000	4.74724
83 1-Chlorohexane	91	7.629	7.630	(1.009)	369223	5.00000	4.81428(a)
84 1,1,1,2-Tetrachloroethane	131	7.702	7.703	(1.018)	146830	5.00000	4.83743
85 Ethylbenzene	106	7.702	7.709	(1.018)	344996	5.00000	4.80537
86 m and p-Xylene	106	7.829	7.830	(1.035)	839057	10.0000	9.50986
87 o-Xylene	106	8.191	8.192	(1.083)	366180	5.00000	4.66158
88 Styrene	104	8.222	8.223	(1.087)	562179	5.00000	4.72938
89 Bromoform	173	8.373	8.368	(1.107)	37461	5.00000	4.55530
90 isopropyl benzene	105	8.542	8.543	(1.129)	1089530	5.00000	4.67102
91 Cyclohexanone	55	8.645	8.639	(1.143)	137007	200.000	114.918

Compounds	QUANT SIG					AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT ( ug/L)	ON-COL ( ug/L)
=====	=====	==	=====	=====	=====	=====	=====
94 Bromobenzene	156	8.790	8.791	(0.904)	145522	5.00000	4.75154(a)
95 1,1,2,2-Tetrachloroethane	83	8.898	8.899	(1.177)	84258	5.00000	4.78549
96 1,2,3-Trichloropropane	110	8.917	8.917	(0.917)	26273	5.00000	5.24585
97 n-Propylbenzene	120	8.917	8.917	(0.917)	259066	5.00000	4.85892(a)
99 2-Chlorotoluene	126	8.977	8.984	(0.924)	191899	5.00000	4.77915(a)
100 4-Chlorotoluene	126	9.092	9.093	(0.935)	189189	5.00000	4.87084(a)
101 1,3,5-Trimethylbenzene	105	9.098	9.099	(0.936)	842480	5.00000	4.75218(a)
102 tert-Butylbenzene	119	9.364	9.365	(0.963)	636729	5.00000	4.64381(a)
103 1,2,4-Trimethylbenzene	105	9.424	9.425	(0.970)	787047	5.00000	4.71930(a)
104 sec-Butylbenzene	134	9.563	9.570	(0.984)	197678	5.00000	4.85400(a)
105 m-Dichlorobenzene	146	9.648	9.649	(0.993)	310067	5.00000	4.79902
106 4-Isopropyltoluene	119	9.714	9.715	(0.999)	807116	5.00000	4.70174(a)
108 p-dichlorobenzene	146	9.744	9.745	(1.002)	294918	5.00000	4.84058
110 o-Dichlorobenzene	146	10.059	10.060	(1.035)	236704	5.00000	4.83595
111 n-Butylbenzene	91	10.071	10.072	(1.036)	869581	5.00000	4.70663(a)
112 1,2-Dibromo-3-chloropropane	157	10.772	10.773	(1.108)	9033	5.00000	5.01471
113 1,2,4-Trichlorobenzene	180	11.430	11.431	(1.176)	136576	5.00000	4.79724(a)
114 Hexachlorobutadiene	225	11.545	11.540	(1.188)	103170	5.00000	4.89772(a)
115 Naphthalene	128	11.600	11.594	(1.193)	190317	5.00000	4.51334
116 1,2,3-Trichlorobenzene	180	11.763	11.758	(1.210)	100909	5.00000	4.58433(a)

# QC Flag Legend

a - Target compound detected but, quantitated amount  
 Below Limit Of Quantitation(BLOQ).

STL Denver

INTERNAL STANDARD COMPOUNDS  
AREA AND RT SUMMARY

Instrument ID: C.i  
Lab File ID: c0306.d  
Lab Smp Id: main005  
Analysis Type: VOA  
Quant Type: ISTD  
Operator: reinharj  
Method File: /chem/C.i/050504i.b/C-20ml-AQ.m  
Misc Info:

Calibration Date: 05/05/4  
Calibration Time: 1459  
Client Smp ID: main005  
Level: LOW  
Sample Type: WATER

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
56 Fluorobenzene	1828430	914215	3656860	1773271	-3.02
81 Chlorobenzene-d5	300471	150236	600942	292881	-2.53
107 1,4-Dichlorobenze	353909	176954	707818	345178	-2.47

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
56 Fluorobenzene	4.11	3.61	4.61	4.11	-0.02
81 Chlorobenzene-d5	7.56	7.06	8.06	7.56	-0.01
107 1,4-Dichlorobenze	9.72	9.22	10.22	9.72	-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/C.i/050504i.b/c0306.d

Date : 05-MAY-2004 14:35

Client ID: main005

Sample Info: main005

Purge Volume: 20.0

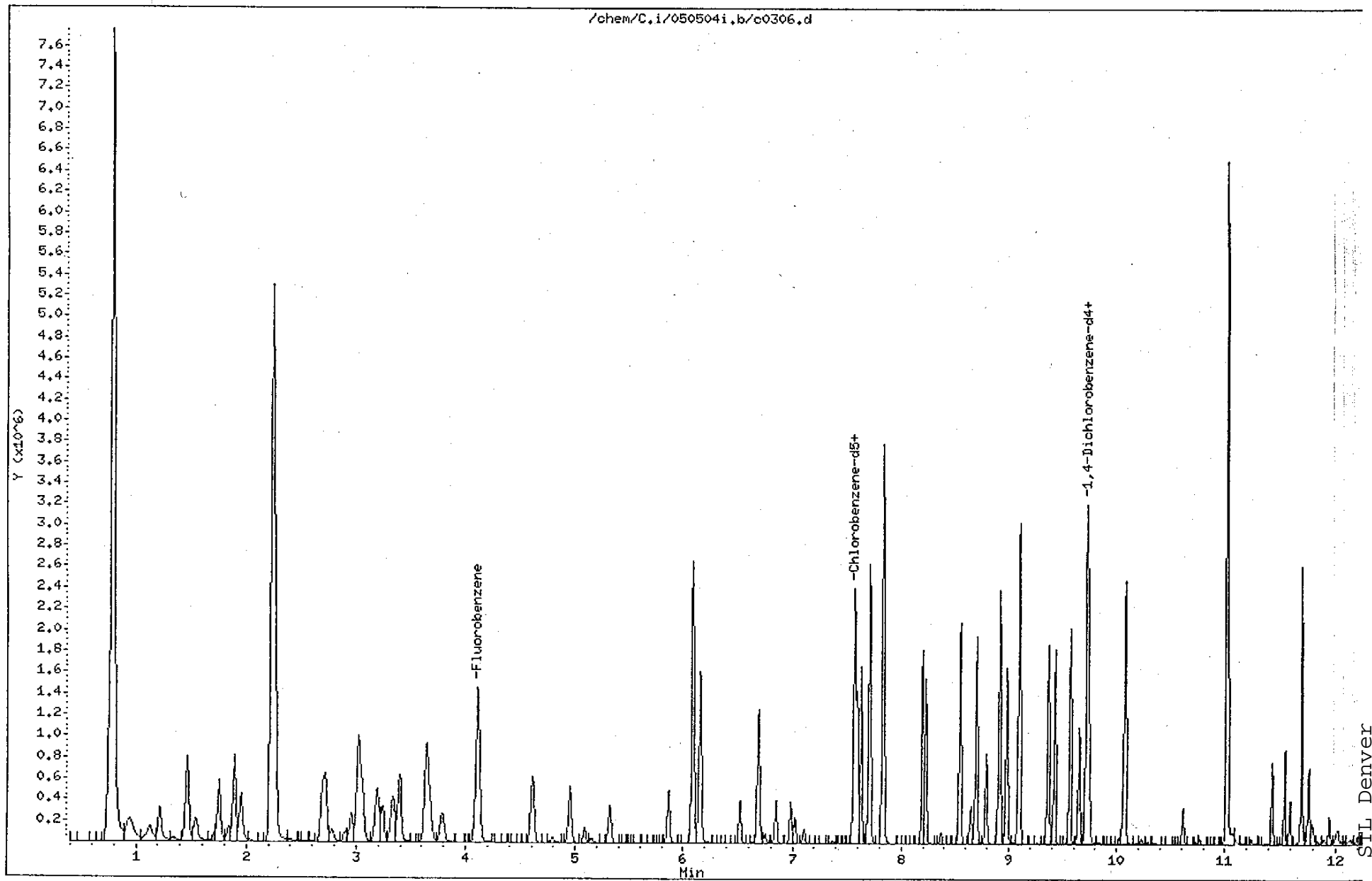
Column phase: DB624

Instrument: C.i

Operator: reinharj

Column diameter: 0.53

Page 5



Data File: /chem/C.i/050504i.b/c0307.d  
Report Date: 05-May-2004 16:12

Page 1

STL Denver

VOLATILE REPORT SW-846

Data file : /chem/C.i/050504i.b/c0307.d  
Lab Smp Id: main010 Client Smp ID: main010  
Inj Date : 05-MAY-2004 14:59  
Operator : reinharj Inst ID: C.i  
Smp Info : main010  
Misc Info :  
Comment : Purge and Trap Analysis  
Method : /chem/C.i/050504i.b/C-20ml-AQ.m  
Meth Date : 05-May-2004 16:11 meierg Quant Type: ISTD  
Cal Date : 19-APR-2004 21:44 Cal File: c0274.d  
Als bottle: 2 Calibration Sample, Level: 4  
Dil Factor: 1.00000  
Integrator: Falcon Compound Sublist: 1-main.sub  
Target Version: 3.40  
Processing Host: chemsv02

Concentration Formula: Amt \* DF \* Vp/Vs

Name	Value	Description
DF	1.000	Dilution Factor
Vp	20.000	Final Purge Volume (ml)
Vs	20.000	Sample Volume (ml)

Compounds	QUANT SIG				AMOUNTS		
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT ( ug/L)	ON-COL ( ug/L)
* 56 Fluorobenzene	96	4.107	4.107	(1.000)	1828430	10.0000	
* 81 Chlorobenzene-d5	119	7.564	7.564	(1.000)	300471	10.0000	
* 107 1,4-Dichlorobenzene-d4	152	9.721	9.721	(1.000)	353909	10.0000	
M 12 1,2-Dichloroethene (total)	96				1023172	20.0000	19.0620
M 18 Xylene (total)	106				2560273	30.0000	29.3498
1 dichlorodifluoromethane	85	0.836	0.836	(0.203)	458965	10.0000	9.05117
3 Chloromethane	50	0.930	0.930	(0.226)	487008	10.0000	8.45431
4 Vinyl Chloride	62	0.953	0.966	(0.232)	441065	10.0000	8.86052
6 Bromomethane	94	1.106	1.107	(0.269)	154214	10.0000	9.10065
7 Chloroethane	64	1.130	1.130	(0.275)	250450	10.0000	9.79348
9 Trichlorofluoromethane	101	1.224	1.224	(0.298)	589950	10.0000	9.28472
10 Ethanol	45	1.341	1.342	(0.327)	87064	500.000	444.428
15 Acrolein	56	1.447	1.447	(0.352)	402271	100.000	90.6836
17 1,1-Dichloroethene	96	1.459	1.459	(0.355)	465126	10.0000	9.46823
19 Acetone	43	1.529	1.530	(0.372)	216178	40.0000	35.1525
20 Iodomethane	142	1.553	1.553	(0.378)	487732	10.0000	9.45711



Compounds	QUANT SIG					AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT ( ug/L)	ON-COL ( ug/L)
=====	----	==	=====	=====	=====	=====	=====
25 Acetonitrile	41	1.705	1.718	(0.415)	230176	100.000	92.1957
26 Methylene Chloride	84	1.752	1.753	(0.427)	399694	10.0000	9.07640
27 tert-Butyl alcohol	59	1.835	1.835	(0.447)	358159	200.000	190.160
30 Acrylonitrile	53	1.952	1.953	(0.475)	796654	100.000	94.3513
29 trans-1,2-Dichloroethene	96	1.893	1.894	(0.461)	530555	10.0000	9.45111
32 1,1-Dichloroethane	63	2.211	2.211	(0.538)	1087650	10.0000	9.72799
34 Chloroprene	53	2.258	2.258	(0.550)	1128775	10.0000	9.76343
33 Isopropyl ether	87	2.234	2.235	(0.544)	1719906	50.0000	50.2288
38 cis-1,2-Dichloroethene	96	2.717	2.717	(0.662)	492617	10.0000	9.61094
37 2,2-Dichloropropane	77	2.687	2.687	(0.654)	733523	10.0000	9.41421
39 2-Butanone	43	2.778	2.778	(0.676)	331568	40.0000	37.9122
41 Propionitrile	54	2.893	2.899	(0.704)	277708	100.000	98.9460
44 Methacrylonitrile	41	3.014	3.020	(0.734)	1346532	100.000	97.9762
42 Bromochloromethane	128	2.953	2.953	(0.719)	141894	10.0000	10.2080
45 Chloroform	83	3.050	3.056	(0.743)	804482	10.0000	9.61792
47 1,1,1-Trichloroethane	97	3.189	3.189	(0.776)	821395	10.0000	9.67210
50 1,1-Dichloropropene	75	3.394	3.394	(0.826)	803270	10.0000	9.45509
49 Carbon Tetrachloride	117	3.334	3.334	(0.812)	712075	10.0000	9.88052
53 Isobutanol	41	3.775	3.775	(0.919)	107271	200.000	194.832
51 Benzene	78	3.636	3.642	(0.885)	2132666	10.0000	9.54703
54 1,2-Dichloroethane	62	3.781	3.787	(0.921)	488255	10.0000	9.62193
57 Trichloroethene	130	4.603	4.609	(1.121)	480170	10.0000	10.1187
59 n-Butanol	56	4.778	4.784	(1.163)	84547	200.000	197.921
60 1,2-Dichloropropane	63	4.947	4.947	(1.204)	501941	10.0000	9.82339
62 Dibromomethane	93	5.080	5.086	(1.237)	141785	10.0000	9.77810
63 1,4-Dioxane	88	5.141	5.141	(1.252)	72603	500.000	514.522
65 Bromodichloromethane	83	5.316	5.316	(1.294)	484462	10.0000	10.0204
68 cis-1,3-Dichloropropene	75	5.866	5.866	(0.775)	571383	10.0000	9.84490
70 4-Methyl-2-pentanone	43	6.089	6.089	(0.805)	723617	40.0000	37.2651
71 Toluene	91	6.150	6.156	(0.813)	2194427	10.0000	9.44860
72 trans-1,3-Dichloropropene	75	6.518	6.518	(0.862)	398412	10.0000	9.75686
74 1,1,2-Trichloroethane	97	6.688	6.688	(0.884)	204186	10.0000	9.69399
75 Tetrachloroethene	164	6.688	6.688	(0.884)	358894	10.0000	9.99674
76 1,3-Dichloropropane	76	6.845	6.845	(0.905)	396858	10.0000	9.76635
78 2-Hexanone	43	6.984	6.984	(0.923)	474548	40.0000	40.4531
79 Dibromochloromethane	129	7.020	7.020	(0.928)	220160	10.0000	10.3330
80 1,2-Dibromoethane	107	7.105	7.105	(0.939)	169025	10.0000	9.93472
82 Chlorobenzene	112	7.588	7.588	(1.003)	1111436	10.0000	9.77821
83 1-Chlorohexane	91	7.624	7.630	(1.008)	781268	10.0000	9.92960
84 1,1,1,2-Tetrachloroethane	131	7.703	7.703	(1.018)	304336	10.0000	9.77331
85 Ethylbenzene	106	7.703	7.709	(1.018)	734166	10.0000	9.96772
86 m and p-Xylene	106	7.830	7.830	(1.035)	1777948	20.0000	19.6422
87 o-Xylene	106	8.192	8.192	(1.083)	782325	10.0000	9.70765
88 Styrene	104	8.223	8.223	(1.087)	1226582	10.0000	10.0581
89 Bromoform	173	8.368	8.368	(1.106)	87557	10.0000	10.3781
90 isopropyl benzene	105	8.537	8.543	(1.129)	2341854	10.0000	9.78636
91 Cyclohexanone	55	8.640	8.639	(1.142)	295118	400.000	241.284

Compounds	QUANT SIG					AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT ( ug/L)	ON-COL ( ug/L)
====	====	==	=====	=====	=====	=====	=====
94 Bromobenzene	156	8.791	8.791	(0.904)	307142	10.0000	9.78129
95 1,1,2,2-Tetrachloroethane	83	8.899	8.899	(1.177)	173179	10.0000	9.58737
96 1,2,3-Trichloropropane	110	8.911	8.917	(0.917)	48512	10.0000	9.44728
97 n-Propylbenzene	120	8.918	8.917	(0.917)	535983	10.0000	9.80464
99 2-Chlorotoluene	126	8.978	8.984	(0.924)	403987	10.0000	9.81289
100 4-Chlorotoluene	126	9.093	9.093	(0.935)	391519	10.0000	9.83133
101 1,3,5-Trimethylbenzene	105	9.099	9.099	(0.936)	1796458	10.0000	9.88329
102 tert-Butylbenzene	119	9.365	9.365	(0.963)	1378720	10.0000	9.80725
103 1,2,4-Trimethylbenzene	105	9.425	9.425	(0.970)	1658274	10.0000	9.69806
104 sec-Butylbenzene	134	9.564	9.570	(0.984)	421227	10.0000	10.0881
105 m-Dichlorobenzene	146	9.649	9.649	(0.993)	646136	10.0000	9.75378
106 4-Isopropyltoluene	119	9.709	9.715	(0.999)	1731864	10.0000	9.83985
108 p-dichlorobenzene	146	9.739	9.745	(1.002)	615253	10.0000	9.84920
110 o-Dichlorobenzene	146	10.060	10.060	(1.035)	504712	10.0000	10.0571
111 n-Butylbenzene	91	10.072	10.072	(1.036)	1839487	10.0000	9.71064
112 1,2-Dibromo-3-chloropropane	157	10.773	10.773	(1.108)	18629	10.0000	10.0868
113 1,2,4-Trichlorobenzene	180	11.431	11.431	(1.176)	277163	10.0000	9.49519
114 Hexachlorobutadiene	225	11.540	11.540	(1.187)	211036	10.0000	9.77122
115 Naphthalene	128	11.595	11.594	(1.193)	405561	10.0000	9.38056
116 1,2,3-Trichlorobenzene	180	11.758	11.758	(1.209)	215274	10.0000	9.53869

STL Denver

INTERNAL STANDARD COMPOUNDS  
AREA AND RT SUMMARY

Instrument ID: C.i  
Lab File ID: c0307.d  
Lab Smp Id: main010  
Analysis Type: VOA  
Quant Type: ISTD  
Operator: reinharj  
Method File: /chem/C.i/050504i.b/C-20ml-AQ.m  
Misc Info:

Calibration Date: 05/05/4  
Calibration Time: 1459  
Client Smp ID: main010  
Level: LOW  
Sample Type: WATER

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
=====	=====	=====	=====	=====	=====
56 Fluorobenzene	1828430	914215	3656860	1828430	0.00
81 Chlorobenzene-d5	300471	150236	600942	300471	0.00
107 1,4-Dichlorobenze	353909	176954	707818	353909	0.00

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
=====	=====	=====	=====	=====	=====
56 Fluorobenzene	4.11	3.61	4.61	4.11	0.00
81 Chlorobenzene-d5	7.56	7.06	8.06	7.56	0.00
107 1,4-Dichlorobenze	9.72	9.22	10.22	9.72	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/C.i/050504i.b/c0307.d

Page 5

Date : 05-MAY-2004 14:59

Client ID: main010

Sample Info: main010

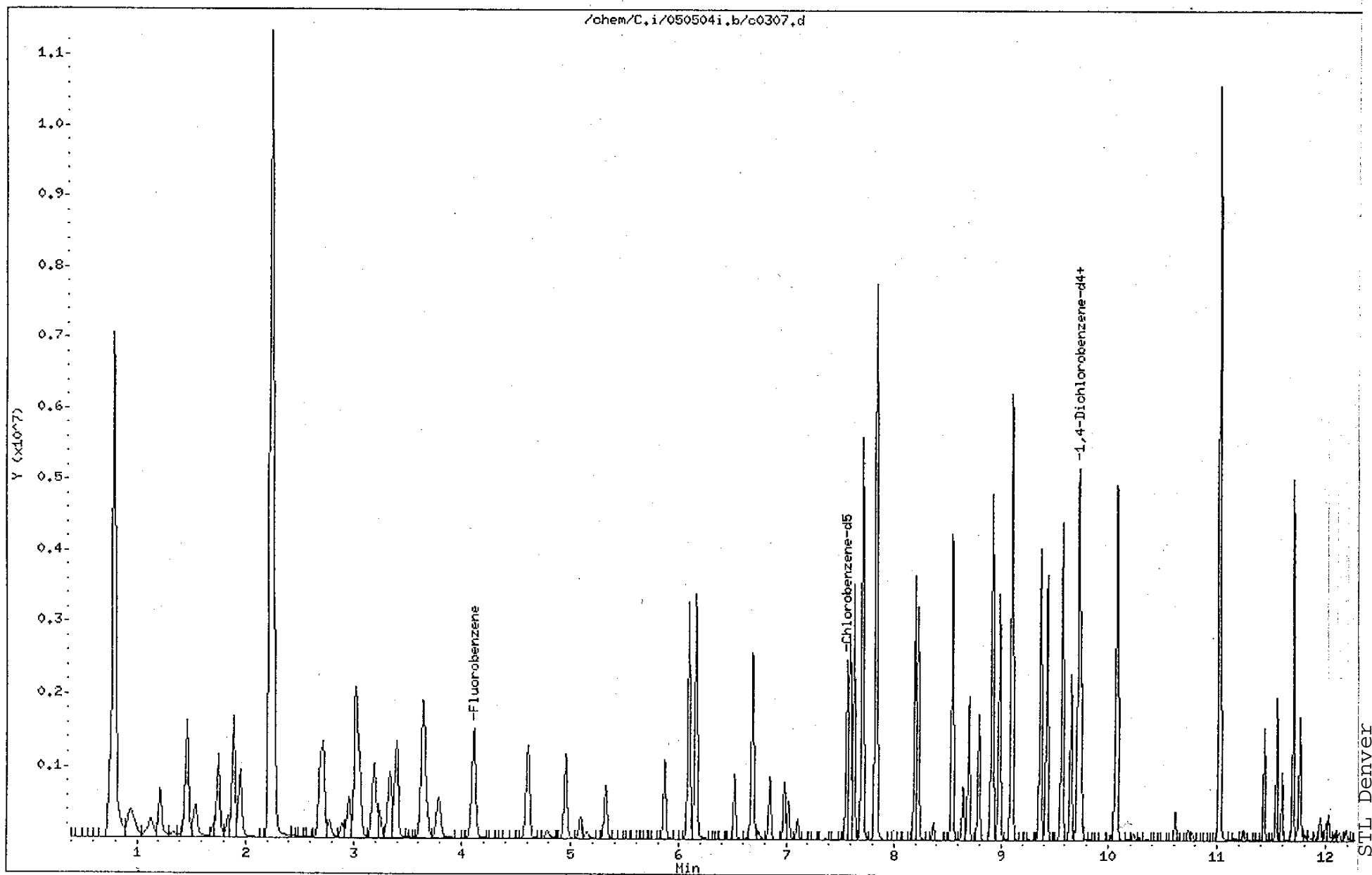
Purge Volume: 20.0

Column phase: DB624

Instrument: C.i

Operator: reinharj

Column diameter: 0,53



STL Denver

VOLATILE REPORT SW-846

Data file : /chem/C.i/050504i.b/c0308.d  
Lab Smp Id: main030 Client Smp ID: main030  
Inj Date : 05-MAY-2004 15:23  
Operator : reinharj Inst ID: C.i  
Smp Info : main030  
Misc Info :  
Comment : Purge and Trap Analysis  
Method : /chem/C.i/050504i.b/C-20ml-AQ.m  
Meth Date : 05-May-2004 16:11 meierg Quant Type: ISTD  
Cal Date : 19-APR-2004 21:44 Cal File: c0274.d  
Als bottle: 2 Calibration Sample, Level: 5  
Dil Factor: 1.00000  
Integrator: Falcon Compound Sublist: 1-main.sub  
Target Version: 3.40  
Processing Host: chemsv02

Concentration Formula: Amt \* DF \* Vp/Vs

Name	Value	Description
DF	1.000	Dilution Factor
Vp	20.000	Final Purge Volume (ml)
Vs	20.000	Sample Volume (ml)

Compounds	QUANT SIG				AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT ( ug/L)
						ON-COL ( ug/L)
* 56 Fluorobenzene	96	4.107	4.107	(1.000)	1909989	10.0000
* 81 Chlorobenzene-d5	119	7.563	7.564	(1.000)	306001	10.0000
* 107 1,4-Dichlorobenzene-d4	152	9.720	9.721	(1.000)	364971	10.0000
M 12 1,2-Dichloroethene (total)	96				3183692	60.0000 56.8205
M 18 Xylene (total)	106				8106332	90.0000 91.2859
1 dichlorodifluoromethane	85	0.836	0.836	(0.203)	1371904	30.0000 25.8998
3 Chloromethane	50	0.930	0.930	(0.226)	1499562	30.0000 24.9203
4 Vinyl Chloride	62	0.965	0.966	(0.235)	1323363	30.0000 25.4497
6 Bromomethane	94	1.118	1.107	(0.272)	443351	30.0000 25.0463
7 Chloroethane	64	1.118	1.130	(0.272)	724507	30.0000 27.1210
9 Trichlorofluoromethane	101	1.212	1.224	(0.295)	1663661	30.0000 25.0649
10 Ethanol	45	1.341	1.342	(0.327)	324361	1500.00 1585.04
15 Acrolein	56	1.447	1.447	(0.352)	1262510	300.000 272.454
17 1,1-Dichloroethene	96	1.458	1.459	(0.355)	1363310	30.0000 26.5669
19 Acetone	43	1.529	1.530	(0.372)	653029	120.000 101.654
20 Iodomethane	142	1.552	1.553	(0.378)	1451624	30.0000 26.9450

Compounds	QUANT SIG			REL RT	RESPONSE	AMOUNTS	
	MASS	RT	EXP RT			CAL-AMT ( ug/L)	ON-COL ( ug/L)
=====	----	--	-----	-----	-----	-----	-----
25 Acetonitrile	41	1.705	1.718	(0.415)	714217	300.000	273.860
26 Methylene Chloride	84	1.752	1.753	(0.427)	1195107	30.0000	25.9801
27 tert-Butyl alcohol	59	1.835	1.835	(0.447)	1165025	600.000	592.144
30 Acrylonitrile	53	1.952	1.953	(0.475)	2552812	300.000	289.431
29 trans-1,2-Dichloroethene	96	1.893	1.894	(0.461)	1626245	30.0000	27.7323
32 1,1-Dichloroethane	63	2.211	2.211	(0.538)	3475836	30.0000	29.7605(M)
34 Chloroprene	53	2.258	2.258	(0.550)	3574270	30.0000	29.5958
33 Isopropyl ether	87	2.234	2.235	(0.544)	5224932	150.000	146.075
38 cis-1,2-Dichloroethene	96	2.717	2.717	(0.662)	1557447	30.0000	29.0882
37 2,2-Dichloropropane	77	2.686	2.687	(0.654)	2256956	30.0000	27.7294
39 2-Butanone	43	2.771	2.778	(0.675)	1072027	120.000	117.344
41 Propionitrile	54	2.892	2.899	(0.704)	901946	300.000	307.636
44 Methacrylonitrile	41	3.019	3.020	(0.735)	4316407	300.000	300.659
42 Bromochloromethane	128	2.952	2.953	(0.719)	431333	30.0000	29.7056
45 Chloroform	83	3.049	3.056	(0.742)	2546516	30.0000	29.1446
47 1,1,1-Trichloroethane	97	3.188	3.189	(0.776)	2569125	30.0000	28.9602
50 1,1-Dichloropropene	75	3.394	3.394	(0.826)	2566879	30.0000	28.9239
49 Carbon Tetrachloride	117	3.333	3.334	(0.812)	2221925	30.0000	29.5142
53 Isobutanol	41	3.774	3.775	(0.919)	379337	600.000	659.555
51 Benzene	78	3.641	3.642	(0.887)	6877176	30.0000	29.4715
54 1,2-Dichloroethane	62	3.786	3.787	(0.922)	1555404	30.0000	29.3431
57 Trichloroethene	130	4.608	4.609	(1.122)	1480617	30.0000	29.8689
59 n-Butanol	56	4.783	4.784	(1.165)	319977	600.000	717.069
60 1,2-Dichloropropane	63	4.947	4.947	(1.205)	1593131	30.0000	29.8475
62 Dibromomethane	93	5.080	5.086	(1.237)	458542	30.0000	30.2727
63 1,4-Dioxane	88	5.140	5.141	(1.252)	243470	1500.00	1651.74
65 Bromodichloromethane	83	5.315	5.316	(1.294)	1571992	30.0000	31.1261
68 cis-1,3-Dichloropropene	75	5.865	5.866	(0.775)	1878254	30.0000	31.7774
70 4-Methyl-2-pentanone	43	6.089	6.089	(0.805)	2409384	120.000	121.837
71 Toluene	91	6.149	6.156	(0.813)	7086125	30.0000	29.9595
72 trans-1,3-Dichloropropene	75	6.518	6.518	(0.862)	1366833	30.0000	32.8680
74 1,1,2-Trichloroethane	97	6.687	6.688	(0.884)	631396	30.0000	29.4346
75 Tetrachloroethene	164	6.687	6.688	(0.884)	1095902	30.0000	29.9739
76 1,3-Dichloropropane	76	6.844	6.845	(0.905)	1262706	30.0000	30.5126
78 2-Hexanone	43	6.983	6.984	(0.923)	1589829	120.000	133.077
79 Dibromochloromethane	129	7.019	7.020	(0.928)	709009	30.0000	32.6753
80 1,2-Dibromoethane	107	7.104	7.105	(0.939)	539370	30.0000	31.1294
82 Chlorobenzene	112	7.587	7.588	(1.003)	3474238	30.0000	30.0120
83 1-Chlorohexane	91	7.630	7.630	(1.009)	2446353	30.0000	30.5302
84 1,1,1,2-Tetrachloroethane	131	7.702	7.703	(1.018)	960181	30.0000	30.2776
85 Ethylbenzene	106	7.708	7.709	(1.019)	2239162	30.0000	29.8516
86 m and p-Xylene	106	7.829	7.830	(1.035)	5601017	60.0000	60.7600
87 o-Xylene	106	8.192	8.192	(1.083)	2505315	30.0000	30.5259
88 Styrene	104	8.222	8.223	(1.087)	3986257	30.0000	32.0969
89 Bromoform	173	8.367	8.368	(1.106)	299754	30.0000	34.8876
90 isopropyl benzene	105	8.542	8.543	(1.129)	7657270	30.0000	31.4206
91 Cyclohexanone	55	8.639	8.639	(1.142)	1018108	1200.00	817.349

Compounds	QUANT SIG					AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT ( ug/L)	ON-COL ( ug/L)
=====	----	--	-----	-----	-----	-----	-----
94 Bromobenzene	156	8.790	8.791	(0.904)	979956	30.0000	30.2619
95 1,1,2,2-Tetrachloroethane	83	8.899	8.899	(1.177)	555868	30.0000	30.2173
96 1,2,3-Trichloropropane	110	8.917	8.917	(0.917)	157559	30.0000	29.7532
97 n-Propylbenzene	120	8.917	8.917	(0.917)	1676141	30.0000	29.7320
99 2-Chlorotoluene	126	8.977	8.984	(0.924)	1258322	30.0000	29.6384
100 4-Chlorotoluene	126	9.092	9.093	(0.935)	1200387	30.0000	29.2290
101 1,3,5-Trimethylbenzene	105	9.098	9.099	(0.936)	5662150	30.0000	30.2064
102 tert-Butylbenzene	119	9.370	9.365	(0.964)	4388866	30.0000	30.2731
103 1,2,4-Trimethylbenzene	105	9.424	9.425	(0.970)	5360831	30.0000	30.4014
104 sec-Butylbenzene	134	9.569	9.570	(0.984)	1265511	30.0000	29.3895
105 m-Dichlorobenzene	146	9.648	9.649	(0.993)	2038765	30.0000	29.8435
106 4-Isopropyltoluene	119	9.714	9.715	(0.999)	5559297	30.0000	30.6286
108 p-dichlorobenzene	146	9.745	9.745	(1.002)	1902742	30.0000	29.5366
110 o-Dichlorobenzene	146	10.059	10.060	(1.035)	1541529	30.0000	29.7860
111 n-Butylbenzene	91	10.071	10.072	(1.036)	5832766	30.0000	29.8579
112 1,2-Dibromo-3-chloropropane	157	10.772	10.773	(1.108)	62279	30.0000	32.6994
113 1,2,4-Trichlorobenzene	180	11.431	11.431	(1.176)	852288	30.0000	28.3131
114 Hexachlorobutadiene	225	11.545	11.540	(1.188)	620484	30.0000	27.8584
115 Naphthalene	128	11.594	11.594	(1.193)	1323460	30.0000	29.6836
116 1,2,3-Trichlorobenzene	180	11.757	11.758	(1.210)	660173	30.0000	28.3653

# QC Flag Legend

M - Compound response manually integrated.

STL Denver

INTERNAL STANDARD COMPOUNDS  
AREA AND RT SUMMARY

Instrument ID: C.i  
Lab File ID: c0308.d  
Lab Smp Id: main030  
Analysis Type: VOA  
Quant Type: ISTD  
Operator: reinharj  
Method File: /chem/C.i/050504i.b/C-20ml-AQ.m  
Misc Info:

Calibration Date: 05/05/4  
Calibration Time: 1459  
Client Smp ID: main030  
Level: LOW  
Sample Type: WATER

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
=====	=====	=====	=====	=====	=====
56 Fluorobenzene	1828430	914215	3656860	1909989	4.46
81 Chlorobenzene-d5	300471	150236	600942	306001	1.84
107 1,4-Dichlorobenze	353909	176954	707818	364971	3.13

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
=====	=====	=====	=====	=====	=====
56 Fluorobenzene	4.11	3.61	4.61	4.11	-0.02
81 Chlorobenzene-d5	7.56	7.06	8.06	7.56	-0.01
107 1,4-Dichlorobenze	9.72	9.22	10.22	9.72	-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/C.i/050504i.b/c0308.d

Date : 05-MAY-2004 15:23

Client ID: main030

Sample Info: main030

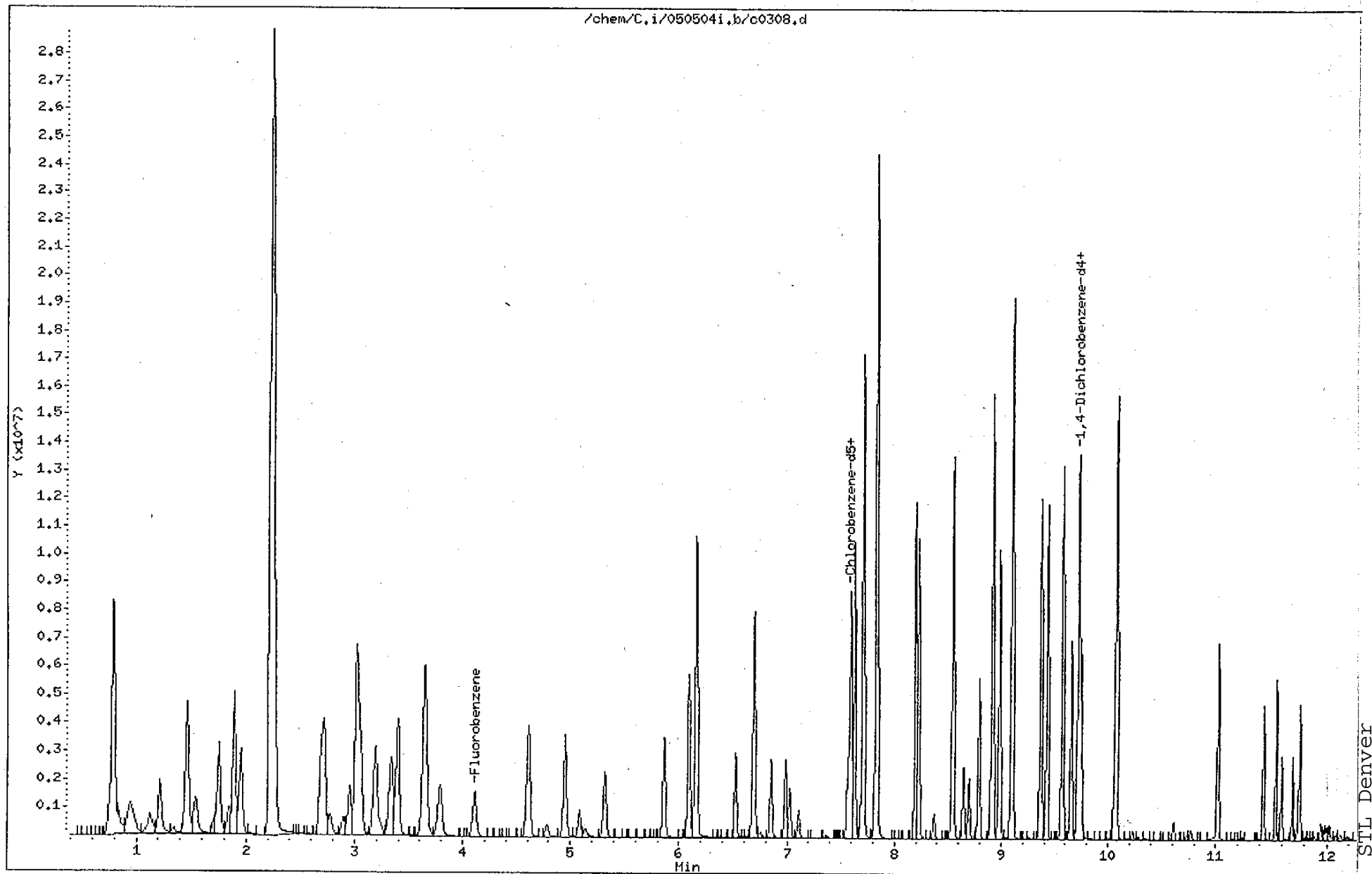
Purge Volume: 20.0

Column phase: DB624

Instrument: C.i

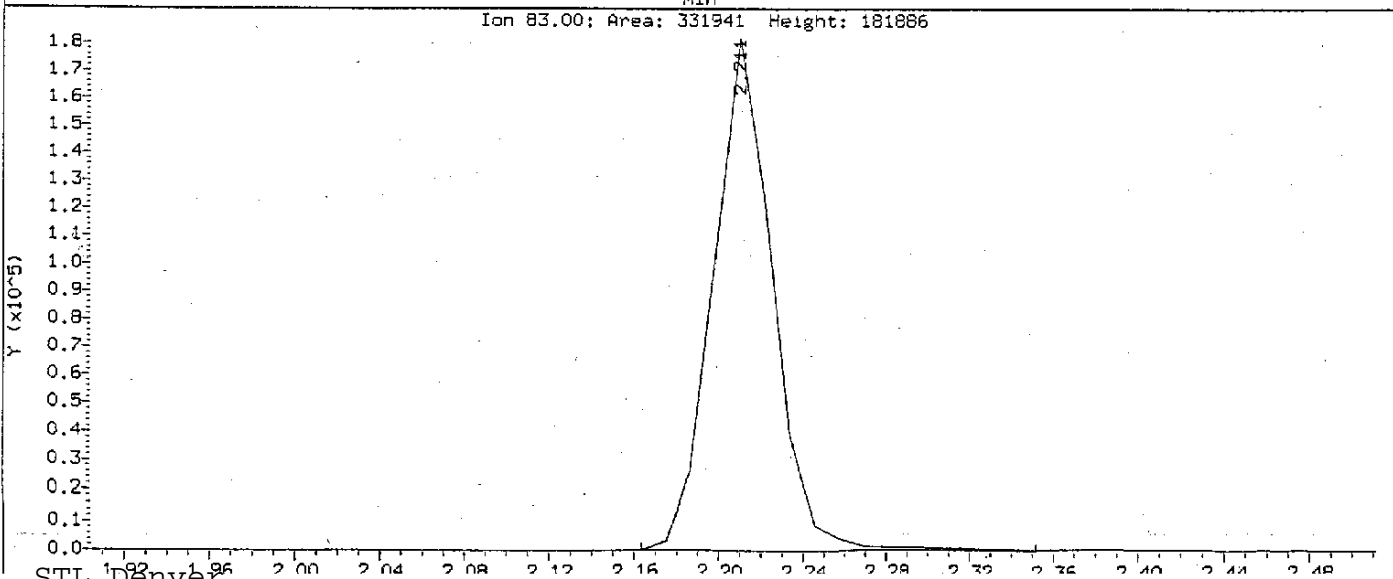
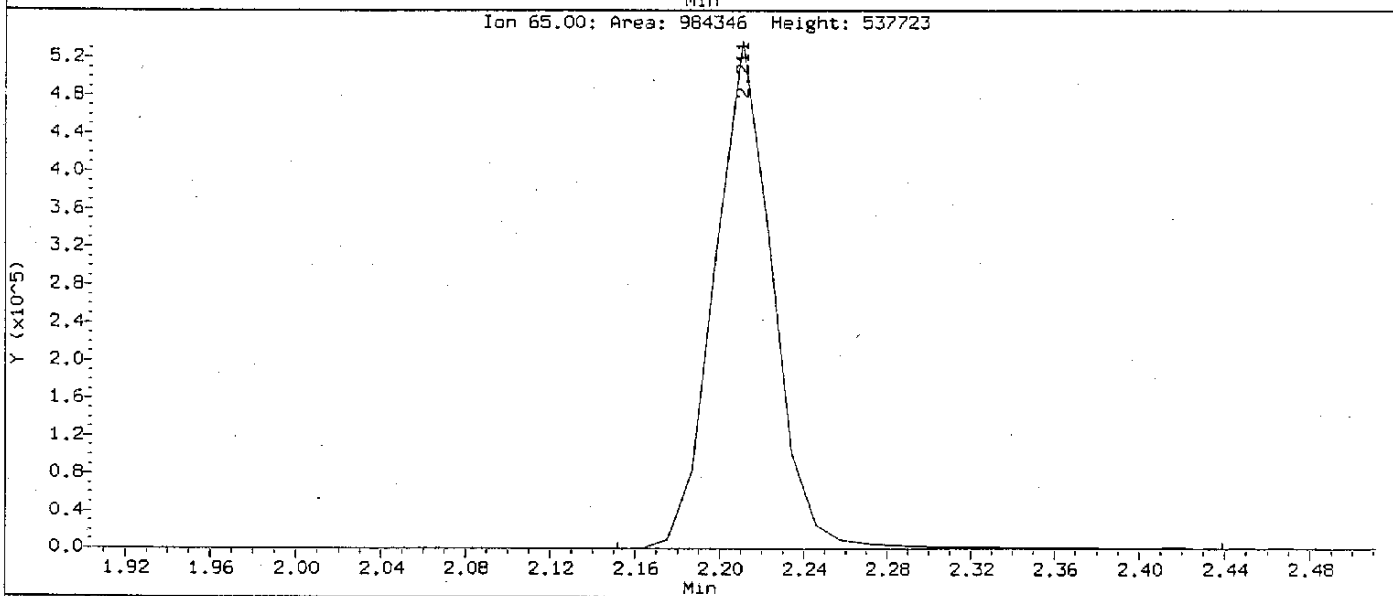
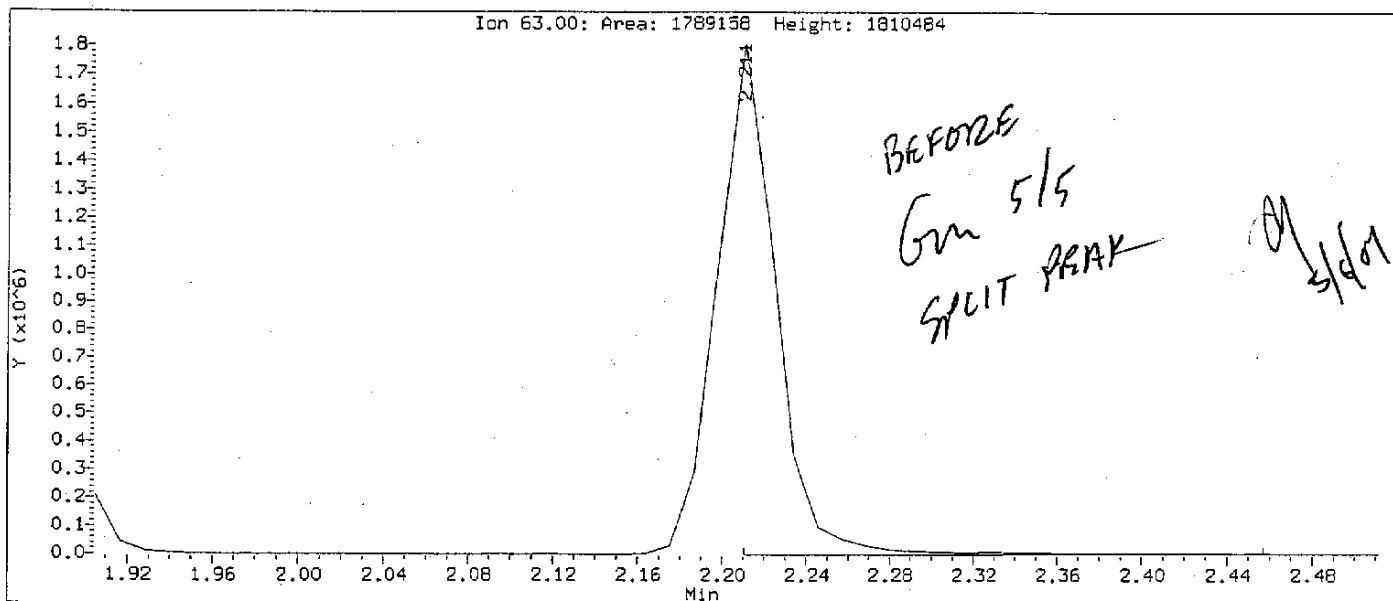
Operator: reinharj

Column diameter: 0.53



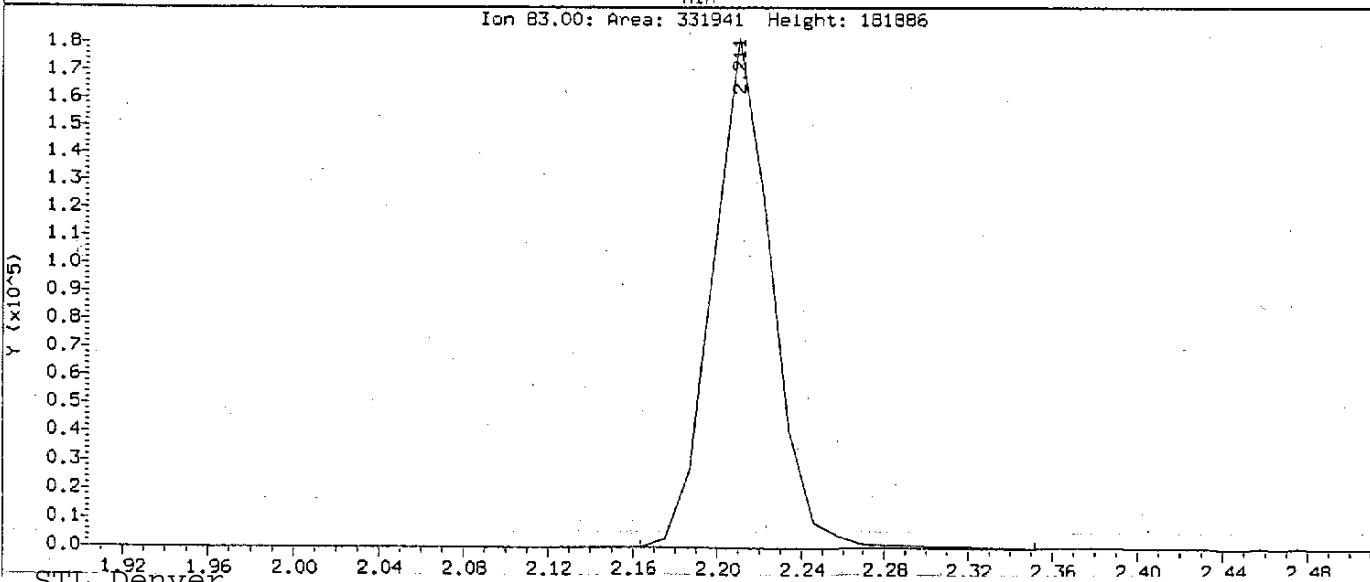
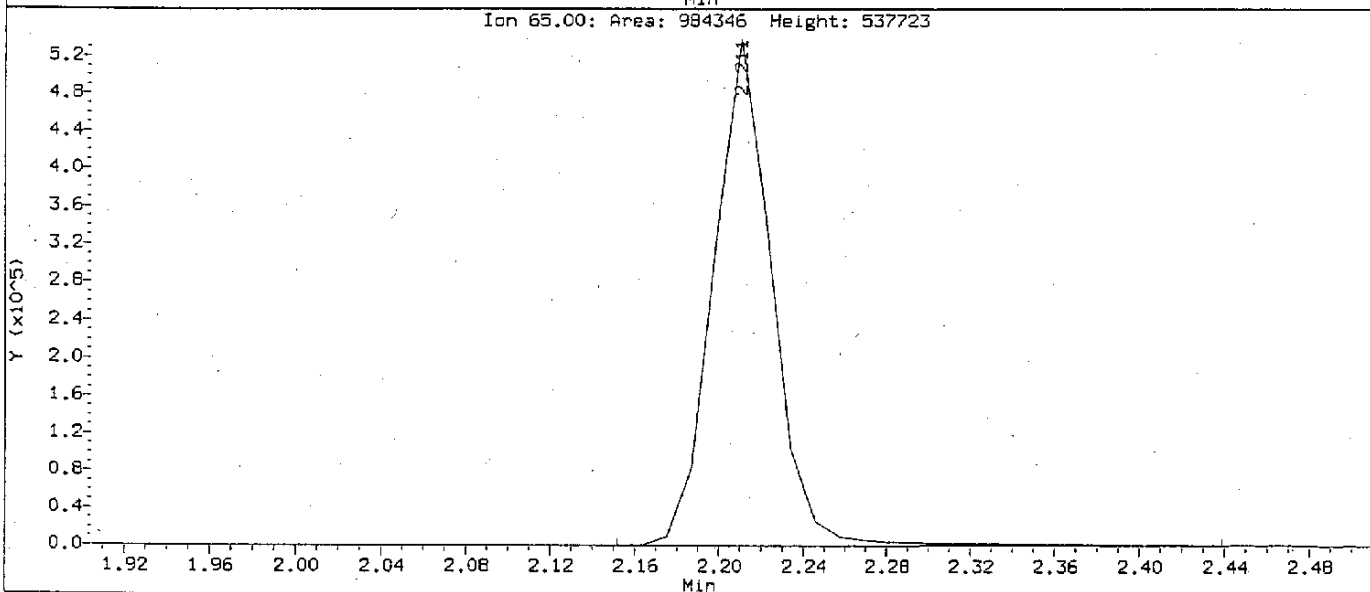
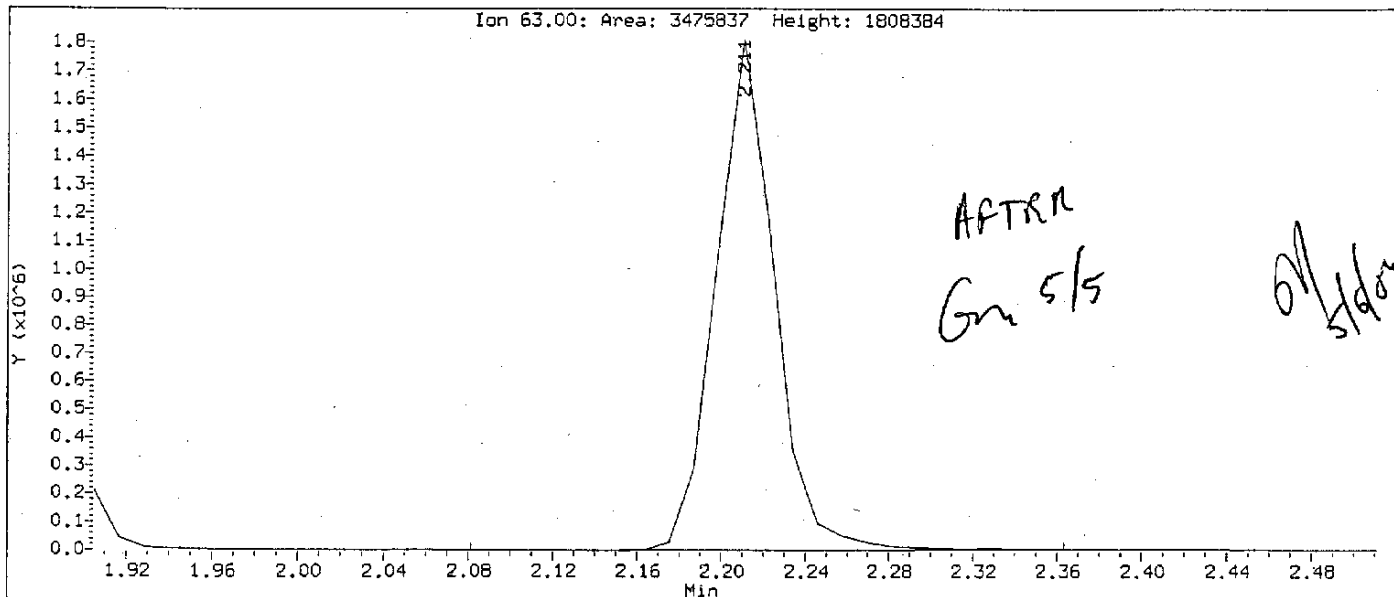
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Injection Date: 05-MAY-2004 15:23  
Instrument: C.1  
Client Sample ID: main030

Compound: 1,1-Dichloroethane  
CAS Number: 75-34-3



Data File: /chem/C.1/0505041.b/c0308.d  
Injection Date: 05-MAY-2004 15:23  
Instrument: C.i  
Client Sample ID: main030

Compound: 1,1-Dichloroethane  
CAS Number: 75-34-3



STL Denver

VOLATILE REPORT SW-846

Data file : /chem/C.i/050504i.b/c0309.d  
Lab Smp Id: main060 Client Smp ID: main060  
Inj Date : 05-MAY-2004 15:46  
Operator : reinharj Inst ID: C.i  
Smp Info : main060  
Misc Info :  
Comment : Purge and Trap Analysis  
Method : /chem/C.i/050504i.b/C-20ml-AQ.m  
Meth Date : 05-May-2004 16:11 meierg Quant Type: ISTD  
Cal Date : 19-APR-2004 22:04 Cal File: c0275.d  
Als bottle: 2 Calibration Sample, Level: 6  
Dil Factor: 1.00000  
Integrator: Falcon Compound Sublist: 1-main.sub  
Target Version: 3.40  
Processing Host: chemsv02

Concentration Formula: Amt \* DF \* Vp/Vs

Name	Value	Description
DF	1.000	Dilution Factor
Vp	20.000	Final Purge Volume (ml)
Vs	20.000	Sample Volume (ml)

Compounds	QUANT SIG				AMOUNTS		
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT ( ug/L)	ON-COL ( ug/L)
* 56 Fluorobenzene	96	4.107	4.107	(1.000)	1963745	10.0000	
* 81 Chlorobenzene-d5	119	7.564	7.564	(1.000)	313013	10.0000	
* 107 1,4-Dichlorobenzene-d4	152	9.721	9.721	(1.000)	351409	10.0000	
M 12 1,2-Dichloroethene (total)	96				6572958	120.000	118.014
M 18 Xylene (total)	106				16168411	180.000	179.374
1 dichlorodifluoromethane	85	0.836	0.836	(0.204)	2690407	60.0000	53.4752
3 Chloromethane	50	0.930	0.930	(0.227)	3064024	60.0000	54.6183
4 Vinyl Chloride	62	0.966	0.966	(0.235)	2586064	60.0000	54.3875
6 Bromomethane	94	1.107	1.107	(0.269)	825005	60.0000	49.3718
7 Chloroethane	64	1.130	1.130	(0.275)	1395392	60.0000	50.8049
9 Trichlorofluoromethane	101	1.224	1.224	(0.298)	3389353	60.0000	54.8223
10 Ethanol	45	1.342	1.342	(0.327)	586072	3000.00	2928.01
15 Acrolein	56	1.447	1.447	(0.352)	2509770	600.000	569.869
17 1,1-Dichloroethene	96	1.459	1.459	(0.355)	2738317	60.0000	54.9415
19 Acetone	43	1.530	1.530	(0.372)	1336332	240.000	226.310
20 Iodomethane	142	1.553	1.553	(0.378)	3013843	60.0000	56.8354 (M)

Compounds	QUANT SIG					AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT ( ug/L)	ON-COL ( ug/L)
=====	=====	==	=====	=====	=====	=====	=====
25 Acetonitrile	41	1.718	1.718	(0.418)	1437196	600.000	574.575
26 Methylene Chloride	84	1.753	1.753	(0.427)	2423703	60.0000	54.5246
27 tert-Butyl alcohol	59	1.835	1.835	(0.447)	2405583	1200.00	1254.10(A)
30 Acrylonitrile	53	1.953	1.953	(0.475)	5305005	600.000	616.509(A)
29 trans-1,2-Dichloroethene	96	1.894	1.894	(0.461)	3340987	60.0000	58.1023
32 1,1-Dichloroethane	63	2.211	2.211	(0.538)	6805823	60.0000	57.4257
34 Chloroprene	53	2.258	2.258	(0.550)	7295799	60.0000	59.3984
33 Isopropyl ether	87	2.235	2.235	(0.544)	10280662	300.000	280.538
38 cis-1,2-Dichloroethene	96	2.717	2.717	(0.662)	3231971	60.0000	59.9112
37 2,2-Dichloropropane	77	2.687	2.687	(0.654)	4561628	60.0000	57.2672
39 2-Butanone	43	2.778	2.778	(0.676)	2223893	240.000	243.326(A)
41 Propionitrile	54	2.899	2.899	(0.706)	1841967	600.000	624.496(A)
44 Methacrylonitrile	41	3.020	3.020	(0.735)	8998649	600.000	618.819(A)
42 Bromochloromethane	128	2.953	2.953	(0.719)	871196	60.0000	59.2698
45 Chloroform	83	3.056	3.056	(0.744)	5271014	60.0000	59.8478
47 1,1,1-Trichloroethane	97	3.189	3.189	(0.776)	5223591	60.0000	58.8092
50 1,1-Dichloropropene	75	3.394	3.394	(0.826)	5374287	60.0000	59.9774
49 Carbon Tetrachloride	117	3.334	3.334	(0.812)	4637017	60.0000	60.2808(A)
53 Isobutanol	41	3.775	3.775	(0.919)	761112	1200.00	1283.77(A)
51 Benzene	78	3.642	3.642	(0.887)	14660676	60.0000	62.6035(A)
54 1,2-Dichloroethane	62	3.787	3.787	(0.922)	3195228	60.0000	60.0946(A)
57 Trichloroethene	130	4.609	4.609	(1.122)	3115353	60.0000	61.1480(A)
59 n-Butanol	56	4.784	4.784	(1.165)	676492	1200.00	1496.18(A)
60 1,2-Dichloropropane	63	4.947	4.947	(1.204)	3336929	60.0000	62.2136(A)
62 Dibromomethane	93	5.086	5.086	(1.238)	930077	60.0000	60.7252(A)
63 1,4-Dioxane	88	5.141	5.141	(1.252)	457872	3000.00	3006.47(A)
65 Bromodichloromethane	83	5.316	5.316	(1.294)	3286034	60.0000	64.1391(A)
68 cis-1,3-Dichloropropene	75	5.866	5.866	(0.775)	3927835	60.0000	66.6416(A)
70 4-Methyl-2-pentanone	43	6.089	6.089	(0.805)	5065646	240.000	252.110(A)
71 Toluene	91	6.156	6.156	(0.814)	14470531	60.0000	61.2600(A)
72 trans-1,3-Dichloropropene	75	6.518	6.518	(0.862)	2859446	60.0000	68.9466(A)
74 1,1,2-Trichloroethane	97	6.688	6.688	(0.884)	1248682	60.0000	57.8120
75 Tetrachloroethene	164	6.688	6.688	(0.884)	2223190	60.0000	59.5400
76 1,3-Dichloropropane	76	6.845	6.845	(0.905)	2588901	60.0000	62.3830(A)
78 2-Hexanone	43	6.984	6.984	(0.923)	3341417	240.000	274.057(A)
79 Dibromochloromethane	129	7.020	7.020	(0.928)	1500111	60.0000	67.4900(A)
80 1,2-Dibromoethane	107	7.105	7.105	(0.939)	1098316	60.0000	62.3921(A)
82 Chlorobenzene	112	7.588	7.588	(1.003)	7253297	60.0000	61.5512(A)
83 1-Chlorohexane	91	7.630	7.630	(1.009)	5013893	60.0000	61.4172(A)
84 1,1,1,2-Tetrachloroethane	131	7.703	7.703	(1.018)	1900156	60.0000	59.3772
85 Ethylbenzene	106	7.709	7.709	(1.019)	4512656	60.0000	59.1053
86 m and p-Xylene	106	7.830	7.830	(1.035)	11103852	120.000	118.699
87 o-Xylene	106	8.192	8.192	(1.083)	5064559	60.0000	60.6749(A)
88 Styrene	104	8.223	8.223	(1.087)	8289024	60.0000	65.4683(A)
89 Bromoform	173	8.368	8.368	(1.106)	616683	60.0000	70.1662(A)
90 isopropyl benzene	105	8.543	8.543	(1.129)	13259957	60.0000	55.0771
91 Cyclohexanone	55	8.639	8.639	(1.142)	2029027	2400.00	2611.42(A)

Compounds	QUANT SIG					AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT ( ug/L)	ON-COL ( ug/L)
=====	=====	==	=====	=====	=====	=====	=====
94 Bromobenzene	156	8.791	8.791	(0.904)	1970221	60.0000	63.0430(A)
95 1,1,2,2-Tetrachloroethane	83	8.899	8.899	(1.177)	1065545	60.0000	57.7376
96 1,2,3-Trichloropropane	110	8.917	8.917	(0.917)	299837	60.0000	59.3495
97 n-Propylbenzene	120	8.917	8.917	(0.917)	3285019	60.0000	60.7141(A)
99 2-Chlorotoluene	126	8.984	8.984	(0.924)	2462842	60.0000	60.8131(A)
100 4-Chlorotoluene	126	9.093	9.093	(0.935)	2313732	60.0000	58.7783
101 1,3,5-Trimethylbenzene	105	9.099	9.099	(0.936)	10807018	60.0000	61.0490(A)
102 tert-Butylbenzene	119	9.365	9.365	(0.963)	8713779	60.0000	63.2600(A)
103 1,2,4-Trimethylbenzene	105	9.425	9.425	(0.970)	10418106	60.0000	62.3188(A)
104 sec-Butylbenzene	134	9.570	9.570	(0.984)	2438352	60.0000	59.3221
105 m-Dichlorobenzene	146	9.649	9.649	(0.993)	4085118	60.0000	61.7855(A)
106 4-Isopropyltoluene	119	9.715	9.715	(0.999)	10641268	60.0000	61.4948(A)
108 p-dichlorobenzene	146	9.745	9.745	(1.002)	3829774	60.0000	61.3678(A)
110 o-Dichlorobenzene	146	10.060	10.060	(1.035)	3005239	60.0000	60.1940(A)
111 n-Butylbenzene	91	10.072	10.072	(1.036)	10908067	60.0000	59.0618
112 1,2-Dibromo-3-chloropropane	157	10.773	10.773	(1.108)	129928	60.0000	70.0712(A)
113 1,2,4-Trichlorobenzene	180	11.431	11.431	(1.176)	1733843	60.0000	59.8335
114 Hexachlorobutadiene	225	11.540	11.540	(1.187)	1207919	60.0000	56.1003
115 Naphthalene	128	11.594	11.594	(1.193)	2741393	60.0000	65.0551(A)
116 1,2,3-Trichlorobenzene	180	11.758	11.758	(1.209)	1349020	60.0000	60.5594(A)

# QC Flag Legend

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

STL Denver

INTERNAL STANDARD COMPOUNDS  
AREA AND RT SUMMARY

Instrument ID: C.i  
Lab File ID: c0309.d  
Lab Smp Id: main060  
Analysis Type: VOA  
Quant Type: ISTD  
Operator: reinharj  
Method File: /chem/C.i/050504i.b/C-20ml-AQ.m  
Misc Info:

Calibration Date: 05/05/4  
Calibration Time: 1459  
Client Smp ID: main060  
Level: LOW  
Sample Type: WATER

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
56 Fluorobenzene	1828430	914215	3656860	1963745	7.40
81 Chlorobenzene-d5	300471	150236	600942	313013	4.17
107 1,4-Dichlorobenze	353909	176954	707818	351409	-0.71

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
56 Fluorobenzene	4.11	3.61	4.61	4.11	0.00
81 Chlorobenzene-d5	7.56	7.06	8.06	7.56	0.00
107 1,4-Dichlorobenze	9.72	9.22	10.22	9.72	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/C,i/050504i.b/c0309.d

Date : 05-MAY-2004 15:46

Client ID: main060

Sample Info: main060

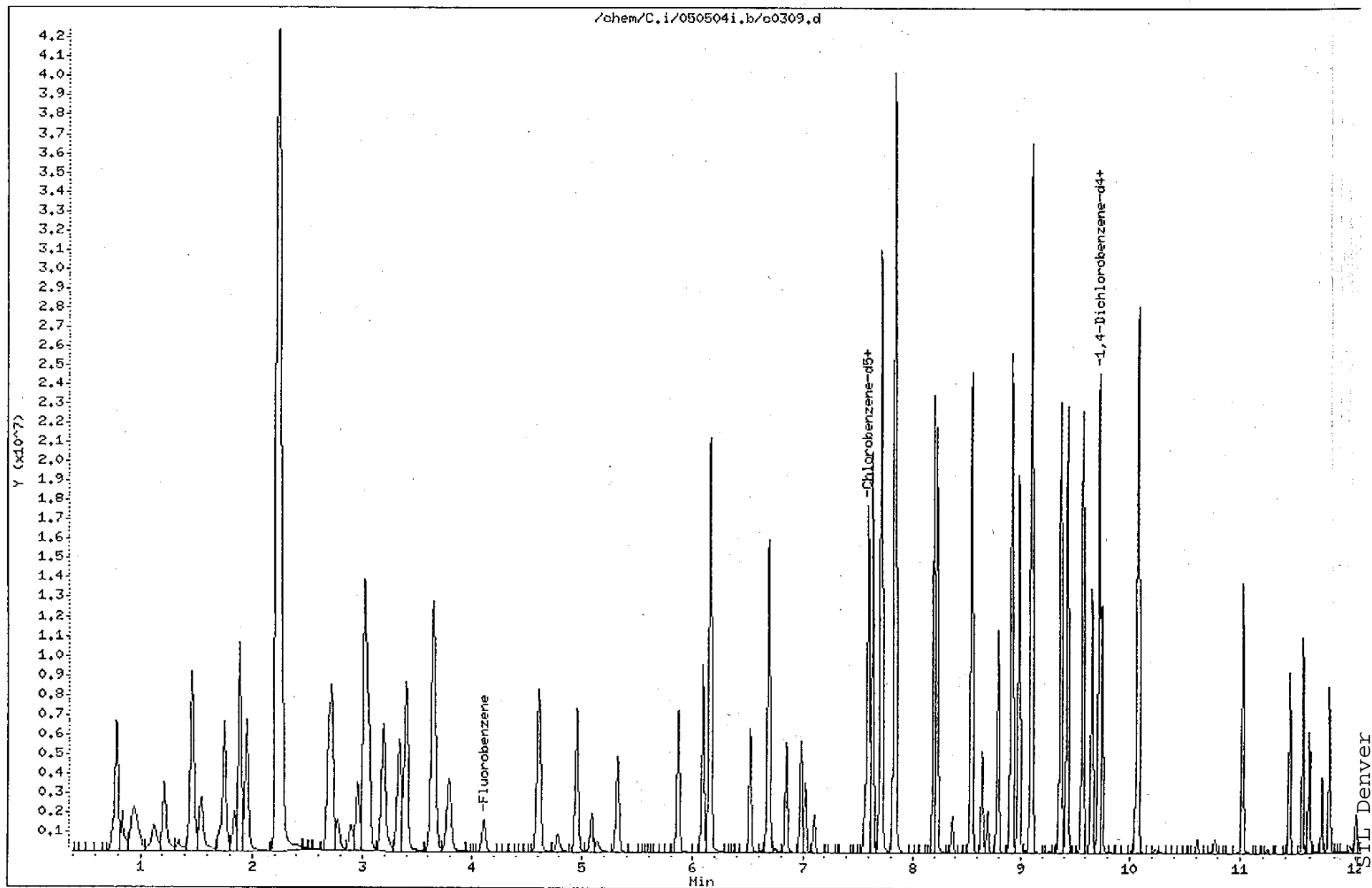
Purge Volume: 20.0

Column phase: DB624

Instrument: C.i

Operator: reinharj

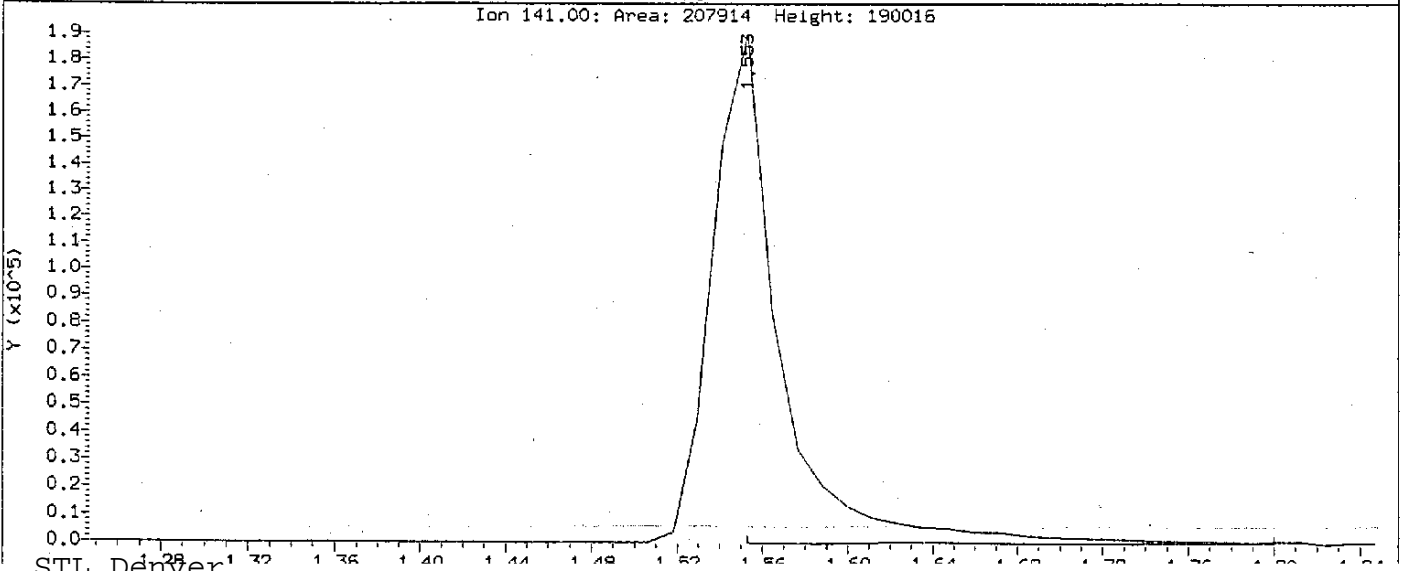
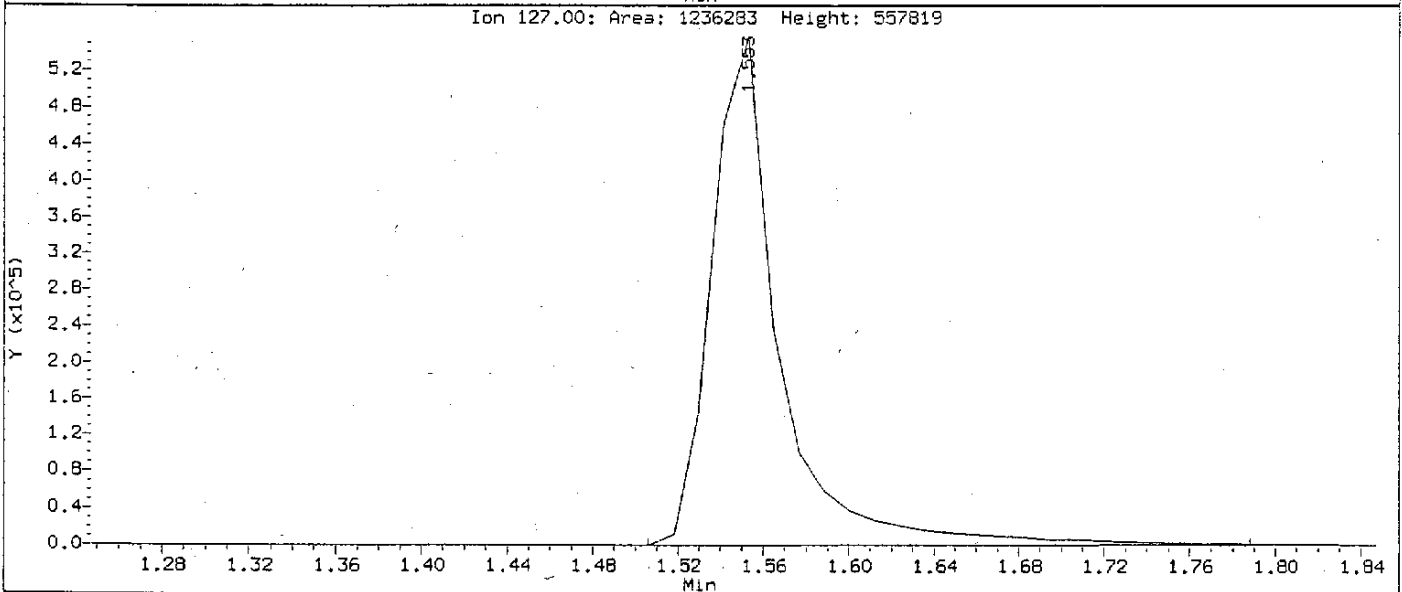
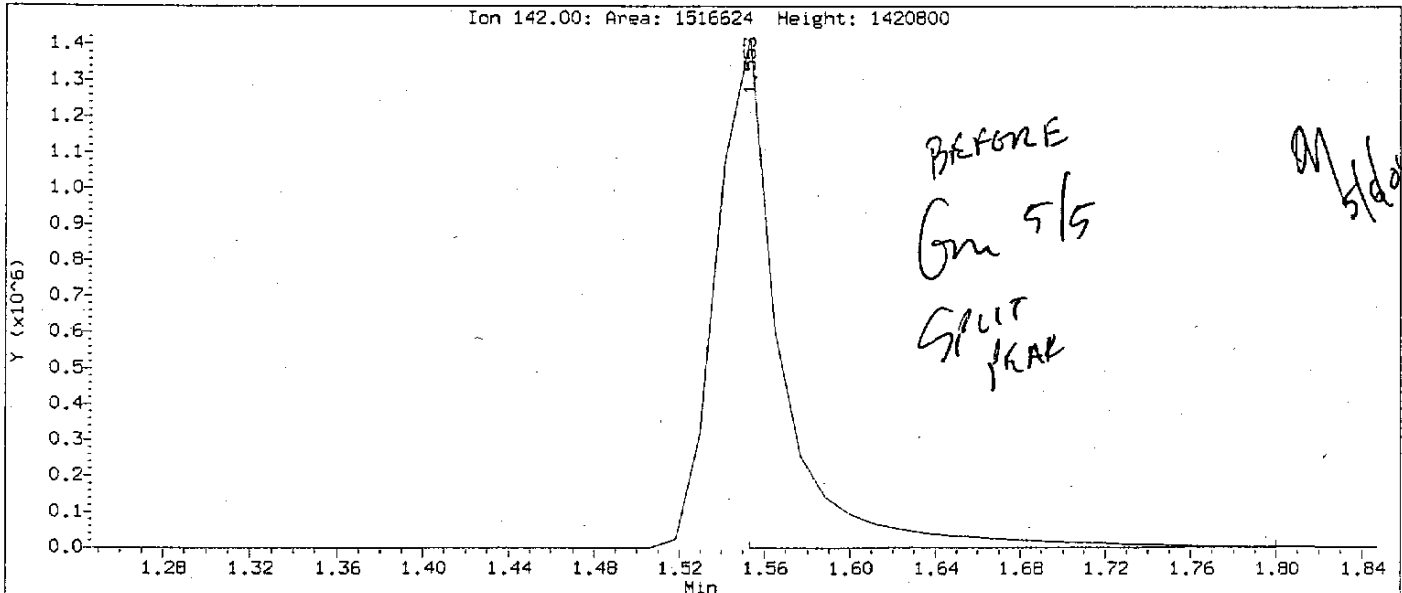
Column diameter: 0.53





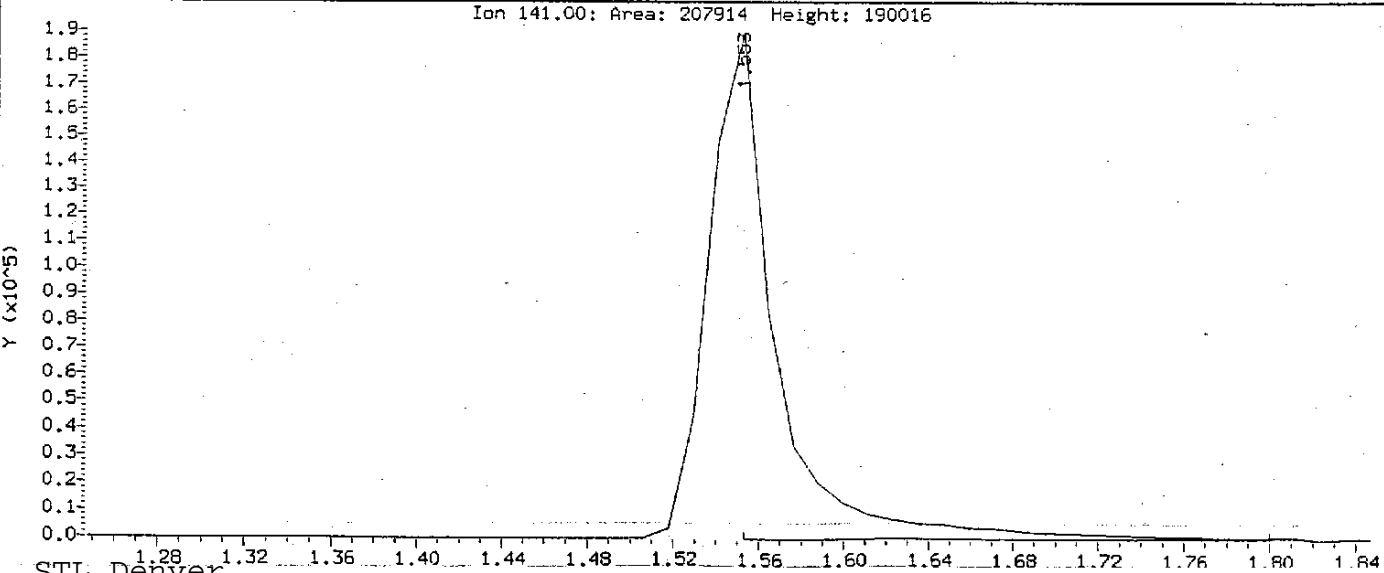
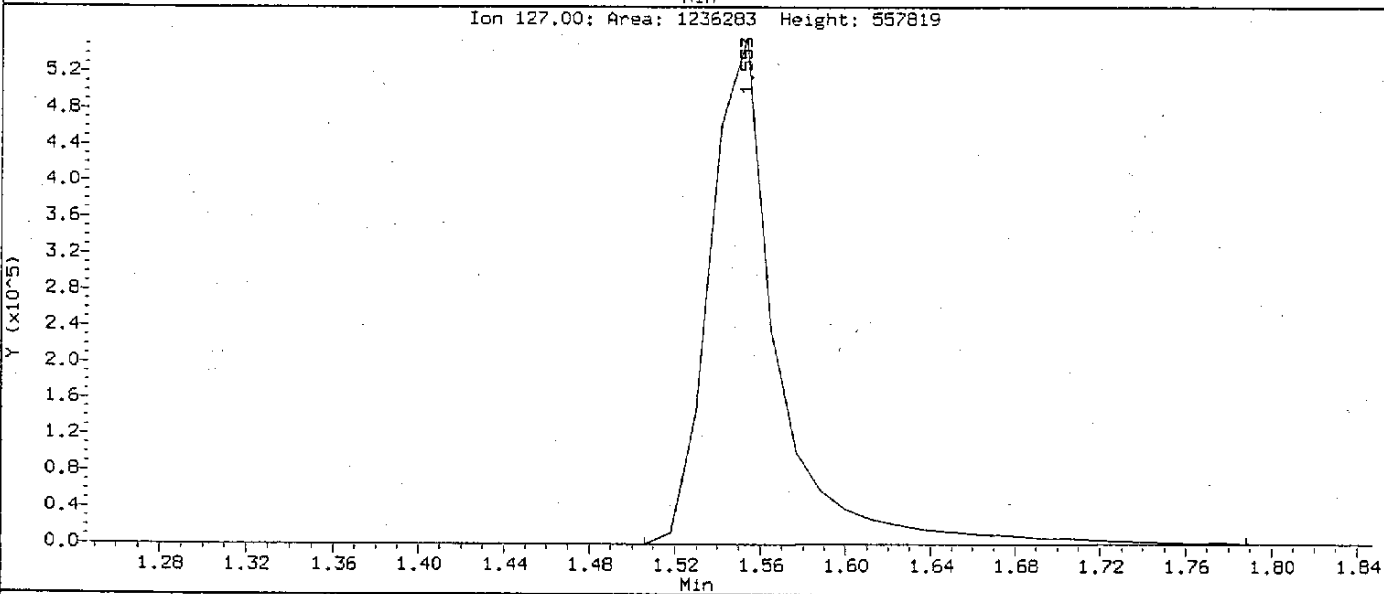
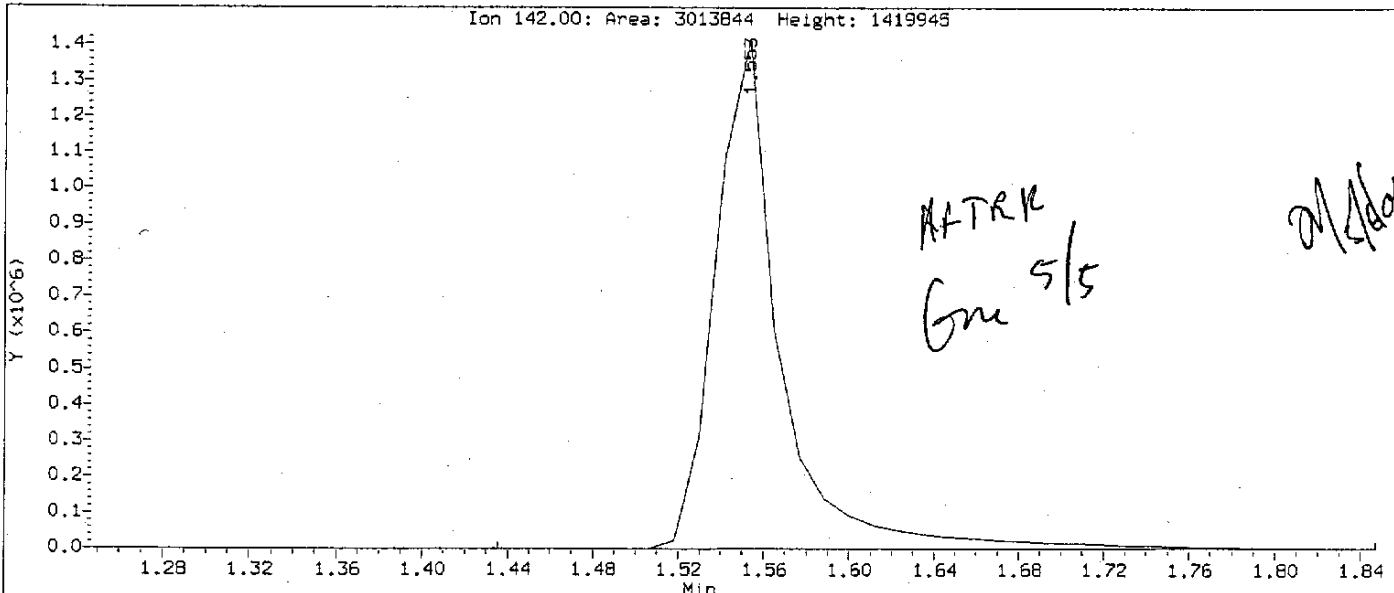
Data File: /chem/C.1/0505041.b/c0309.d  
Injection Date: 05-MAY-2004 15:46  
Instrument: C.1  
Client Sample ID: main060

Compound: Iodomethane  
CAS Number: 74-88-4



Data File: /chem/C.1/0505041.b/c0309.d  
Injection Date: 05-MAY-2004 15:46  
Instrument: C.i  
Client Sample ID: main060

Compound: Iodomethane  
CAS Number: 74-88-4



INITIAL CALIBRATION VERIFICATION

Instrument ID: C.i  
Lab File ID: c0311.d  
Analysis Type: WATER

Injection Date: 05-MAY-2004 16:32  
Lab Sample ID: SSV 030/lcs  
Method File: /chem/C.i/050504i.b/C-20ml-AQ.m

COMPOUND	EXPECTED CONC.	MEASURED CONC.	%D	MAX %D
64 dichlorodifluoromethane	30.0000	27.4197	8.6	25.0
1 Chloromethane	30.0000	30.2584	0.9	25.0
4 Vinyl Chloride	30.0000	32.3221	7.7	25.0
2 Bromomethane	30.0000	35.7387	19.1	25.0
5 Chloroethane	30.0000	28.9953	3.3	25.0
11 Trichlorofluoromethane	30.0000	29.8140	0.6	25.0
12 1,1-Dichloroethene	30.0000	31.0124	3.4	25.0
85 1,2-Dichloroethene (total)	60.0000	62.2598	3.8	25.0
7 Acetone	60 120.0000	64.4308	46.3	25.0
118 Xylene (total)	90.0000	95.5629	6.2	25.0
6 Methylene Chloride	30.0000	29.8475	0.5	25.0
0 trans-1,2-Dichloroethene	30.0000	31.8251	6.1	25.0
15 1,1-Dichloroethane	30.0000	32.4447	8.1	25.0
93 2,2-Dichloropropane	30.0000	31.6828	5.6	25.0
0 cis-1,2-Dichloroethene	30.0000	30.4348	1.4	25.0
20 2-Butanone	60 120.0000	63.3107	47.2	25.0
13 Bromochloromethane	30.0000	32.2594	7.5	25.0
17 Chloroform	30.0000	31.1527	3.8	25.0
22 1,1,1-Trichloroethane	30.0000	30.9639	3.2	25.0
23 Carbon Tetrachloride	30.0000	31.0003	3.3	25.0
94 1,1-Dichloropropene	30.0000	30.9366	3.1	25.0
30 Benzene	30.0000	31.7306	5.8	25.0
16 1,2-Dichloroethane	30.0000	31.1915	4.0	25.0
90 Fluorobenzene	10.0000	10.0000	0.0	25.0
29 Trichloroethene	30.0000	31.8845	6.3	25.0
26 1,2-Dichloropropane	30.0000	31.4002	4.7	25.0
34 Dibromomethane	30.0000	31.0835	3.6	25.0
25 Bromodichloromethane	30.0000	32.4208	8.1	25.0
28 cis-1,3-Dichloropropene	30.0000	33.8908	13.0	25.0
38 4-Methyl-2-pentanone	60 120.0000	60.2756	49.8	25.0
45 Toluene	30.0000	31.8110	6.0	25.0
31 trans-1,3-Dichloropropene	30.0000	34.6413	15.5	25.0
42 Tetrachloroethene	30.0000	31.1983	4.0	25.0
32 1,1,2-Trichloroethane	30.0000	30.3728	1.2	25.0
109 1,3-Dichloropropane	30.0000	32.0322	6.8	25.0
43 2-Hexanone	60 120.0000	64.9579	45.9	25.0
36 Dibromochloromethane	30.0000	33.1123	10.4	25.0
58 1,2-Dibromoethane	30.0000	31.9222	6.4	25.0
39 Chlorobenzene-d5	10.0000	10.0000	0.0	25.0

7.4% ON 5/6/04

5.5% ON 5/6/04

0.4% ON 5/6/04

8.3% ON 5/6/04

INITIAL CALIBRATION VERIFICATION

Instrument ID: C.i  
Lab File ID: c0311.d  
Analysis Type: WATER

Injection Date: 05-MAY-2004 16:32  
Lab Sample ID: SSV 030/lcs  
Method File: /chem7C.i/050504i.b/C-20ml-AQ.m

COMPOUND	EXPECTED CONC.	MEASURED CONC.	%D	MAX %D
=====	=====	=====	=====	=====
46 Chlorobenzene	30.0000	31.1185	3.7	25.0
92 1-Chlorohexane	30.0000	31.1653	3.9	25.0
74 1,1,1,2-Tetrachloroethane	30.0000	31.7260	5.8	25.0
47 Ethylbenzene	30.0000	31.3449	4.5	25.0
0 m and p-Xylene	60.0000	64.0753	6.8	25.0
0 o-Xylene	30.0000	31.4876	5.0	25.0
49 Styrene	30.0000	33.2412	10.8	25.0
37 Bromoform	30.0000	35.0936	17.0	25.0
79 isopropyl benzene	30.0000	31.6213	5.4	25.0
95 Bromobenzene	30.0000	30.8594	2.9	25.0
40 1,1,2,2-Tetrachloroethane	30.0000	30.7606	2.5	25.0
96 n-Propylbenzene	30.0000	30.8313	2.8	25.0
50 1,2,3-Trichloropropane	30.0000	29.3383	2.2	25.0
97 2-Chlorotoluene	30.0000	33.6779	12.3	25.0
99 4-Chlorotoluene	30.0000	30.1270	0.4	25.0
98 1,3,5-Trimethylbenzene	30.0000	31.4910	5.0	25.0
100 tert-Butylbenzene	30.0000	31.6084	5.4	25.0
101 1,2,4-Trimethylbenzene	30.0000	32.0773	6.9	25.0
102 sec-Butylbenzene	30.0000	31.8218	6.1	25.0
61 m-Dichlorobenzene	30.0000	30.6795	2.3	25.0
103 4-Isopropyltoluene	30.0000	30.9886	3.3	25.0
91 1,4-Dichlorobenzene-d4	10.0000	10.0000	0.0	25.0
62 p-dichlorobenzene	30.0000	31.4418	4.8	25.0
63 o-Dichlorobenzene	30.0000	30.8843	2.9	25.0
104 n-Butylbenzene	30.0000	32.2620	7.5	25.0
75 1,2-Dibromo-3-chloropropane	30.0000	33.9235	13.1	25.0
105 1,2,4-Trichlorobenzene	30.0000	32.5546	8.5	25.0
106 Hexachlorobutadiene	30.0000	30.7780	2.6	25.0
130 Naphthalene	30.0000	33.1659	10.6	25.0
108 1,2,3-Trichlorobenzene	30.0000	32.7138	9.0	25.0

STL Denver

VOLATILE REPORT SW-846

Data file : /chem/C.i/050504i.b/c0311.d  
Lab Smp Id: SSV\_030/lcs Client Smp ID: SSV\_030  
Inj Date : 05-MAY-2004 16:32  
Operator : meierg Inst ID: C.i  
Smp Info : SSV\_030/lcs  
Misc Info :  
Comment : Purge and Trap Analysis  
Method : /chem/C.i/050504i.b/C-20ml-AQ.m  
Meth Date : 06-May-2004 22:04 reinharj Quant Type: ISTD  
Cal Date : 05-MAY-2004 19:57 Cal File: c0319.d  
Als bottle: 2  
Dil Factor: 1.00000  
Integrator: Falcon Compound Sublist: ICV.sub  
Target Version: 3.40  
Processing Host: chemsv02

Concentration Formula: Amt \* DF \* Vp/Vs

Name	Value	Description
DF	1.000	Dilution Factor
Vp	20.000	Final Purge Volume (ml)
Vs	20.000	Sample Volume (ml)

Compounds	QUANT SIG						CONCENTRATIONS	
	MASS	RT	EXP RT	REL RT	RESPONSE		ON-COLUMN ( ug/L)	FINAL ( ug/L)
*****	----	==	=====	=====	=====		=====	=====
* 56 Fluorobenzene	96	4.107	4.107	(1.000)	1851111		10.0000	
* 81 Chlorobenzene-d5	119	7.563	7.564	(1.000)	298658		10.0000	
* 107 1,4-Dichlorobenzene-d4	152	9.721	9.721	(1.000)	357181		10.0000	(Q)
M 12 1,2-Dichloroethene (total)	96				3272700		62.2598	62.2598
M 18 Xylene (total)	106				8226839		95.5629	95.5629
1 dichlorodifluoromethane	85	0.834	0.836	(0.203)	1300397		27.4197	27.4197(M)
3 Chloromethane	50	0.928	0.930	(0.226)	1600104		30.2584	30.2584
4 Vinyl Chloride	62	0.952	0.966	(0.232)	1448728		32.3221	32.3221
6 Bromomethane	94	1.104	1.107	(0.269)	488702		35.7387	35.7387
7 Chloroethane	64	1.128	1.130	(0.275)	750699		28.9953	28.9953
9 Trichlorofluoromethane	101	1.222	1.224	(0.298)	1737512		29.8140	29.8140
17 1,1-Dichloroethene	96	1.469	1.459	(0.358)	1457021		31.0124	31.0124
19 Acetone	43	1.527	1.530	(0.372)	358634		64.4308	64.4308
26 Methylene Chloride	84	1.751	1.753	(0.426)	1250669		29.8475	29.8475
29 trans-1,2-Dichloroethene	96	1.892	1.894	(0.461)	1725035		31.8251	31.8251
32 1,1-Dichloroethane	63	2.209	2.211	(0.538)	3596613		32.4447	32.4447(M)

Compounds	QUANT	SIG						CONCENTRATIONS	
			MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN	FINAL
								( ug/L)	( ug/L)
38 cis-1,2-Dichloroethene	96		2.717	2.717	(0.662)		1547665	30.4348	30.4348
39 2-Butanone	43		2.777	2.778	(0.676)		545442	63.3107	63.3107
37 2,2-Dichloropropane	77		2.687	2.687	(0.654)		2378947	31.6828	31.6828(M)
42 Bromochloromethane	128		2.952	2.953	(0.719)		446978	32.2594	32.2594
45 Chloroform	83		3.055	3.056	(0.744)		2584945	31.1527	31.1527
47 1,1,1-Trichloroethane	97		3.188	3.189	(0.776)		2592556	30.9639	30.9639
50 1,1-Dichloropropene	75		3.394	3.394	(0.826)		2613087	30.9366	30.9366
49 Carbon Tetrachloride	117		3.333	3.334	(0.812)		2247882	31.0003	31.0003
51 Benzene	78		3.641	3.642	(0.887)		6996763	31.7306	31.7306(M)
54 1,2-Dichloroethane	62		3.786	3.787	(0.922)		1563327	31.1915	31.1915
57 Trichloroethene	130		4.608	4.609	(1.122)		1529351	31.8845	31.8845
60 1,2-Dichloropropane	63		4.947	4.947	(1.205)		1587597	31.4002	31.4002
62 Dibromomethane	93		5.086	5.086	(1.238)		448734	31.0835	31.0835
65 Bromodichloromethane	83		5.315	5.316	(1.294)		1565739	32.4208	32.4208
68 cis-1,3-Dichloropropene	75		5.865	5.866	(0.775)		1905910	33.8908	33.8908
70 4-Methyl-2-pentanone	43		6.089	6.089	(0.805)		1155573	60.2756	60.2756
71 Toluene	91		6.149	6.156	(0.813)		7170306	31.8110	31.8110
72 trans-1,3-Dichloropropene	75		6.518	6.518	(0.862)		1370803	34.6413	34.6413
74 1,1,2-Trichloroethane	97		6.687	6.688	(0.884)		625936	30.3728	30.3728
76 1,3-Dichloropropane	76		6.844	6.845	(0.905)		1268373	32.0322	32.0322
75 Tetrachloroethene	164		6.687	6.688	(0.884)		1111501	31.1983	31.1983
78 2-Hexanone	43		6.983	6.984	(0.923)		755669	64.9579	64.9579
79 Dibromochloromethane	129		7.019	7.020	(0.928)		702239	33.1123	33.1123
80 1,2-Dibromoethane	107		7.104	7.105	(0.939)		536171	31.9222	31.9222
83 1-Chlorohexane	91		7.630	7.630	(1.009)		2427570	31.1653	31.1653
82 Chlorobenzene	112		7.587	7.588	(1.003)		3498885	31.1185	31.1185
84 1,1,1,2-Tetrachloroethane	131		7.702	7.703	(1.018)		968711	31.7260	31.7260
85 Ethylbenzene	106		7.708	7.709	(1.019)		2283408	31.3449	31.3449
86 m and p-Xylene	106		7.829	7.830	(1.035)		5719088	64.0753	64.0753(Q)
87 o-Xylene	106		8.192	8.192	(1.083)		2507751	31.4876	31.4876
88 Styrene	104		8.222	8.223	(1.087)		4015688	33.2412	33.2412
89 Bromoform	173		8.367	8.368	(1.106)		294287	35.0936	35.0936
90 isopropyl benzene	105		8.542	8.543	(1.129)		7263759	31.6213	31.6213
95 1,1,2,2-Tetrachloroethane	83		8.899	8.899	(1.177)		541651	30.7606	30.7606
94 Bromobenzene	156		8.790	8.791	(0.904)		980262	30.8594	30.8594
96 1,2,3-Trichloropropane	110		8.917	8.917	(0.917)		151084	29.3383	29.3383
97 n-Propylbenzene	120		8.917	8.917	(0.917)		1695567	30.8313	30.8312(Q)
99 2-Chlorotoluene	126		8.977	8.984	(0.924)		1385963	33.6779	33.6779
101 1,3,5-Trimethylbenzene	105		9.098	9.099	(0.936)		5666146	31.4910	31.4910
100 4-Chlorotoluene	126		9.092	9.093	(0.935)		1205391	30.1270	30.1270
102 tert-Butylbenzene	119		9.364	9.365	(0.963)		4425410	31.6084	31.6084
103 1,2,4-Trimethylbenzene	105		9.424	9.425	(0.970)		5450575	32.0773	32.0773
104 sec-Butylbenzene	134		9.569	9.570	(0.984)		1329472	31.8218	31.8218(Q)
105 m-Dichlorobenzene	146		9.648	9.649	(0.993)		2061773	30.6795	30.6795
106 4-Isopropyltoluene	119		9.715	9.715	(0.999)		5450484	30.9886	30.9886
108 p-dichlorobenzene	146		9.745	9.745	(1.002)		1994413	31.4418	31.4418
111 n-Butylbenzene	91		10.071	10.072	(1.036)		6056325	32.2620	32.2620

Compounds	QUANT SIG	CONCENTRATIONS						
		MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN	FINAL
							( ug/L)	( ug/L)
=====	----	--	=====	=====	=====	=====	=====	
110 o-Dichlorobenzene	146	10.059	10.060	(1.035)	1567259	30.8843	30.8843	
112 1,2-Dibromo-3-chloropropane	157	10.772	10.773	(1.108)	63935	33.9235	33.9235	
113 1,2,4-Trichlorobenzene	180	11.431	11.431	(1.176)	958857	32.5546	32.5546	
114 Hexachlorobutadiene	225	11.540	11.540	(1.187)	673578	30.7780	30.7780	
115 Naphthalene	128	11.594	11.594	(1.193)	1420551	33.1659	33.1659	
116 1,2,3-Trichlorobenzene	180	11.757	11.758	(1.210)	740703	32.7138	32.7138	

QC Flag Legend

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

STL Denver

INTERNAL STANDARD COMPOUNDS  
AREA AND RT SUMMARY

Instrument ID: C.i  
Lab File ID: c0311.d  
Lab Smp Id: SSV\_030/lcs  
Analysis Type: VOA  
Quant Type: ISTD  
Operator: meierg  
Method File: /chem/C.i/050504i.b/C-20ml-AQ.m  
Misc Info:

Calibration Date: 05/05/4  
Calibration Time: 1912  
Client Smp ID: SSV\_030  
Level: LOW  
Sample Type: WATER

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
=====	=====	=====	=====	=====	=====
56 Fluorobenzene	1808046	904023	3616092	1851111	2.38
81 Chlorobenzene-d5	285569	142784	571138	298658	4.58
107 1,4-Dichlorobenze	333646	166823	667292	357181	7.05

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
=====	=====	=====	=====	=====	=====
56 Fluorobenzene	4.11	3.61	4.61	4.11	0.02
81 Chlorobenzene-d5	7.56	7.06	8.06	7.56	0.01
107 1,4-Dichlorobenze	9.72	9.22	10.22	9.72	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/C.i/050504i.b/c0311.d

Date : 05-MAY-2004 16:32

Client ID: SSV\_030

Sample Info: SSV\_030/1os

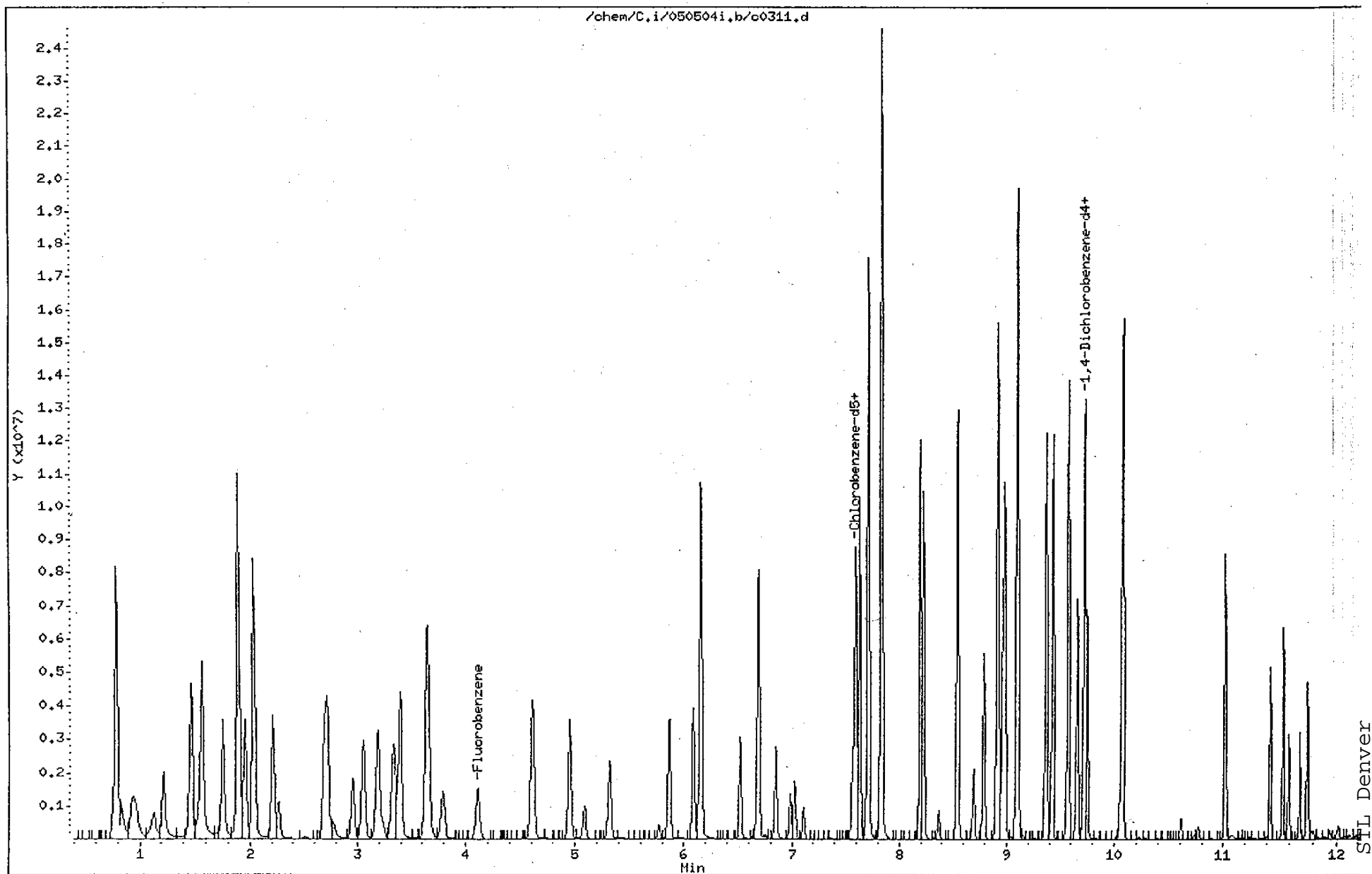
Purge Volume: 20.0

Column phase: DB624

Instrument: C.i

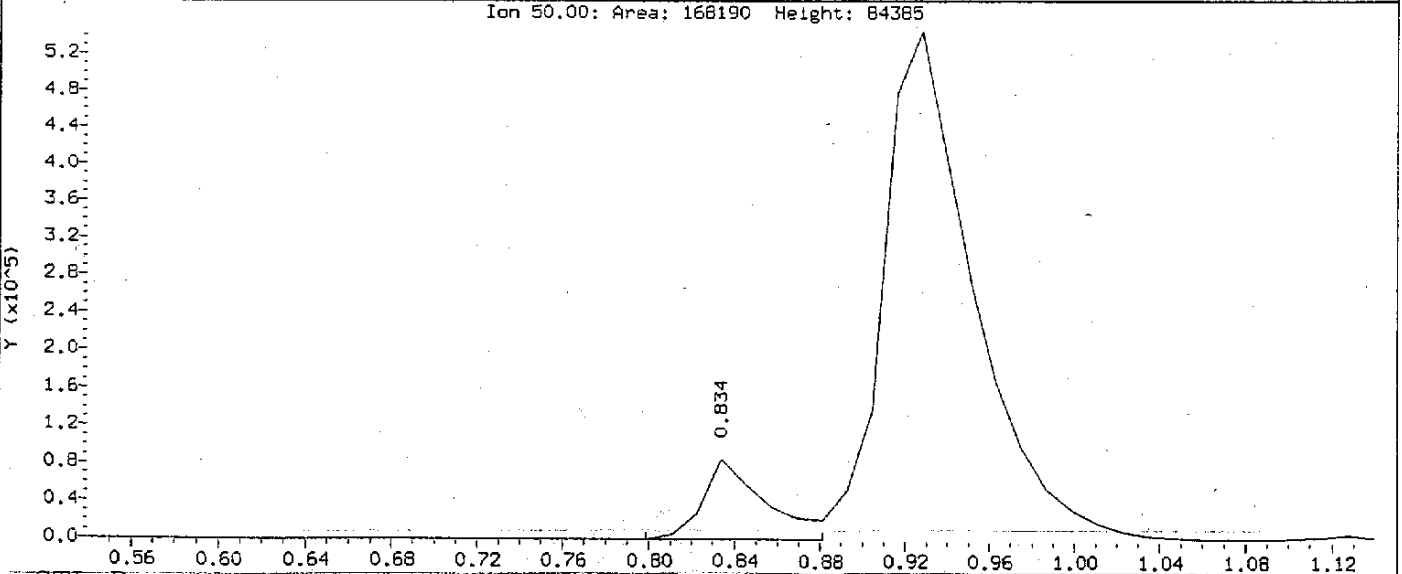
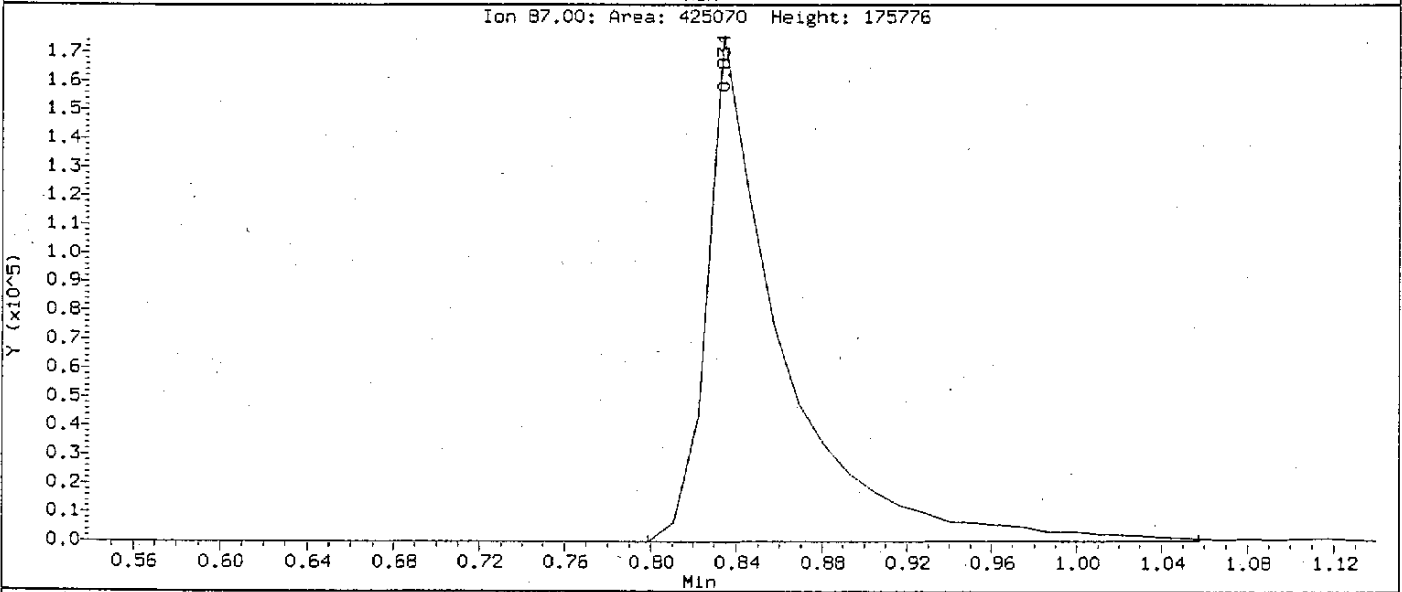
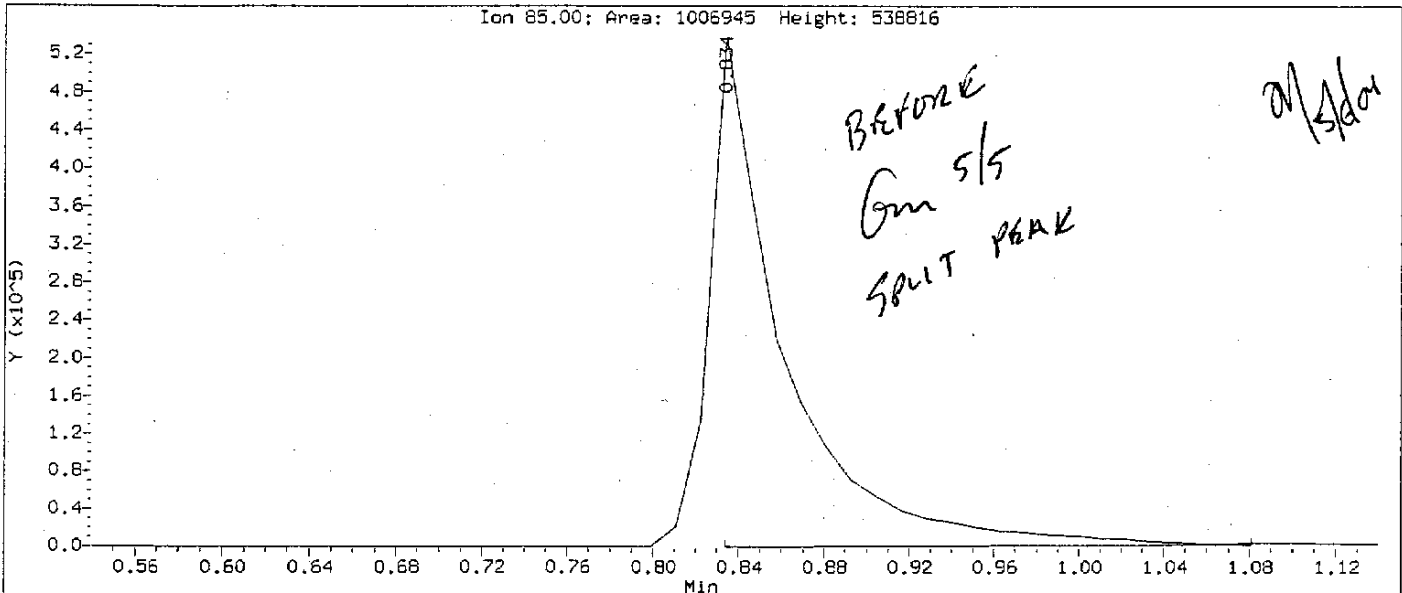
Operator: meierg

Column diameter: 0.53



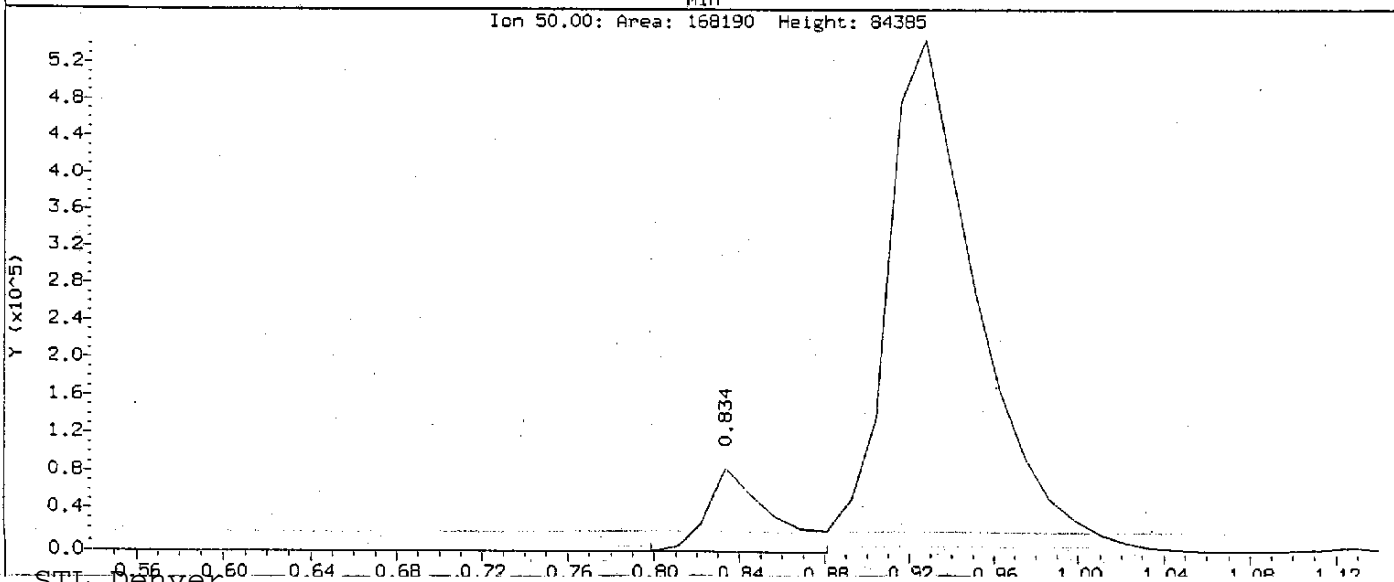
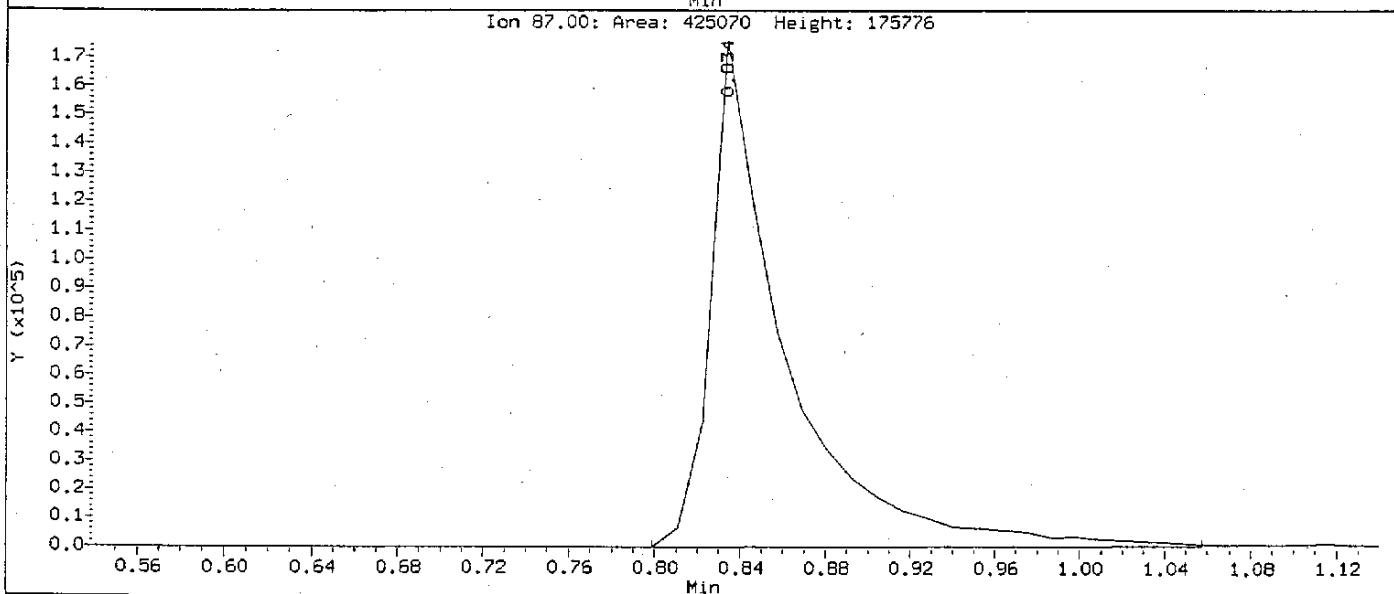
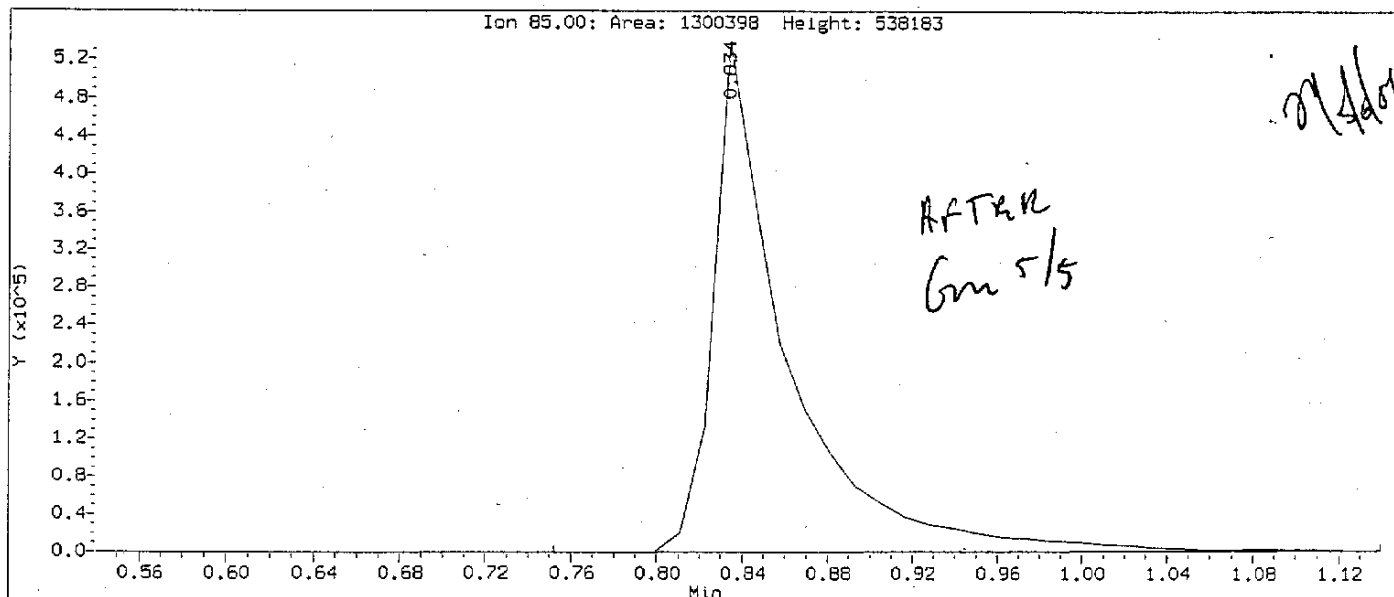
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Injection Date: 05-MAY-2004 16:32  
Instrument: C.1  
Client Sample ID: SSV\_030

Compound: dichlorodifluoromethane  
CAS Number: 75-71-8



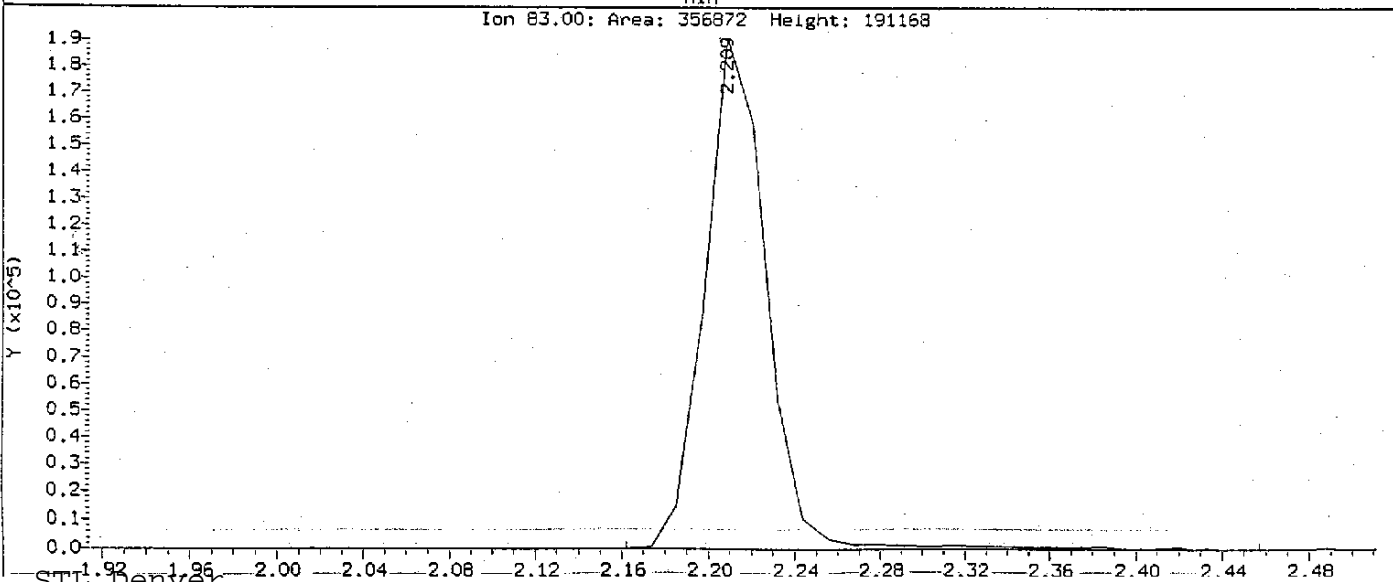
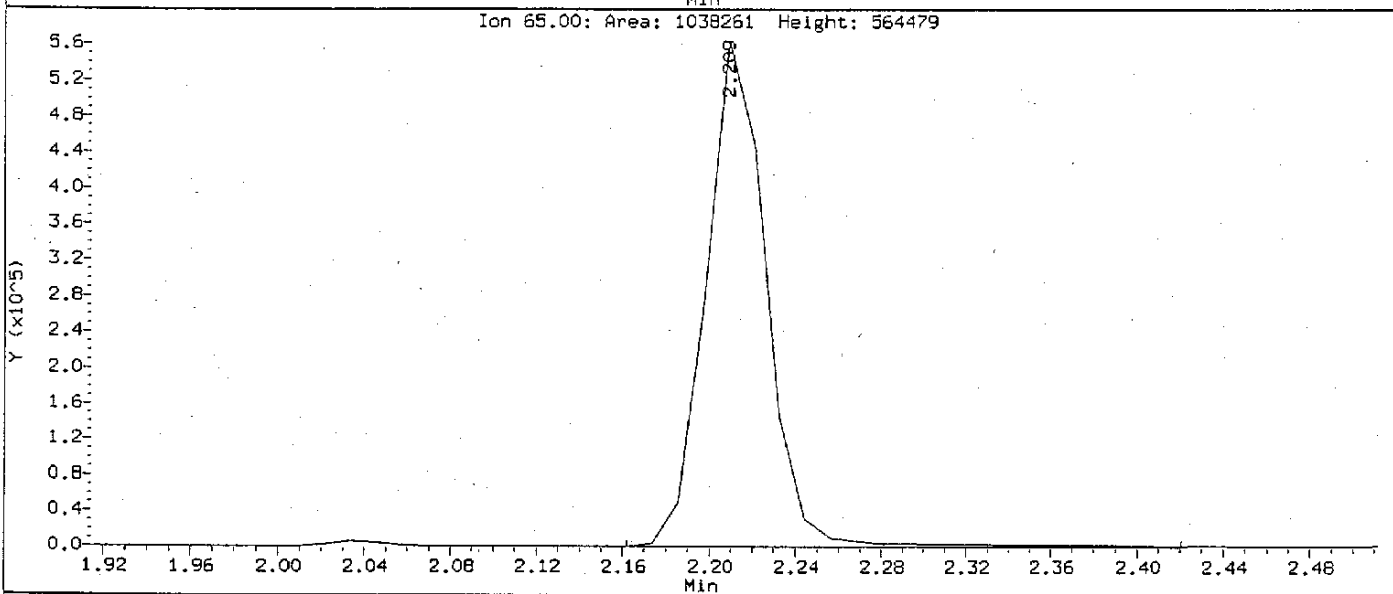
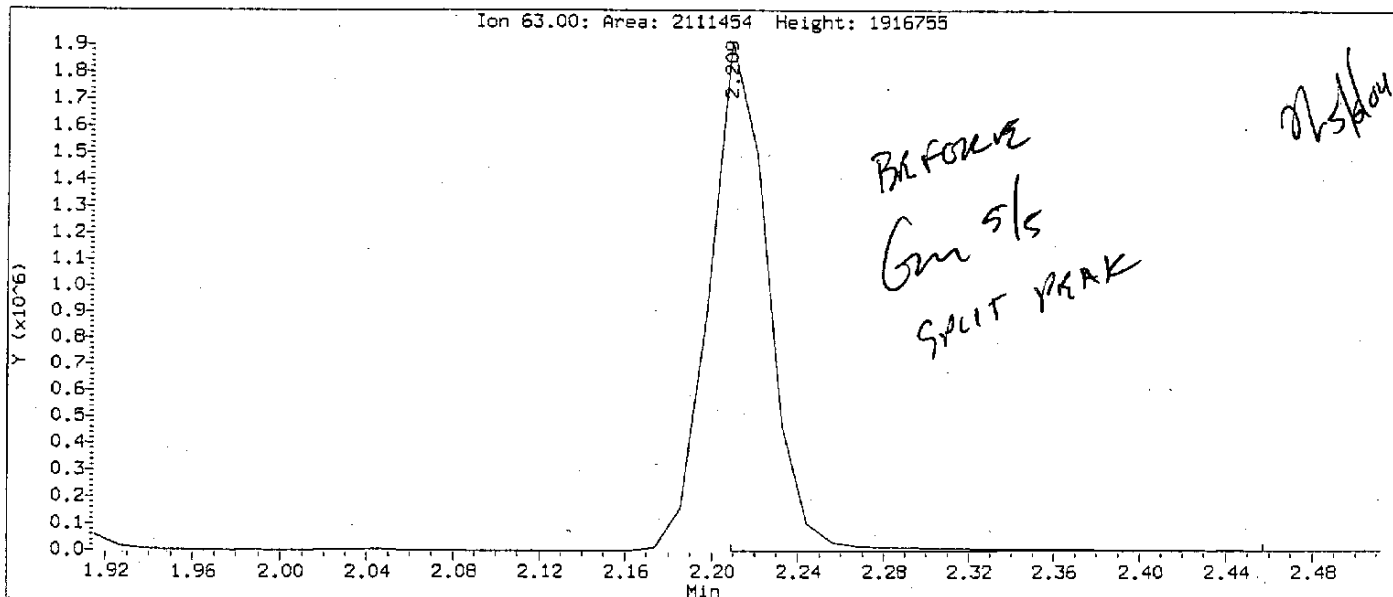
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Instrument: C.1  
Client Sample ID: SSV\_030

Compound: dichlorodifluoromethane  
CAS Number: 75-71-8



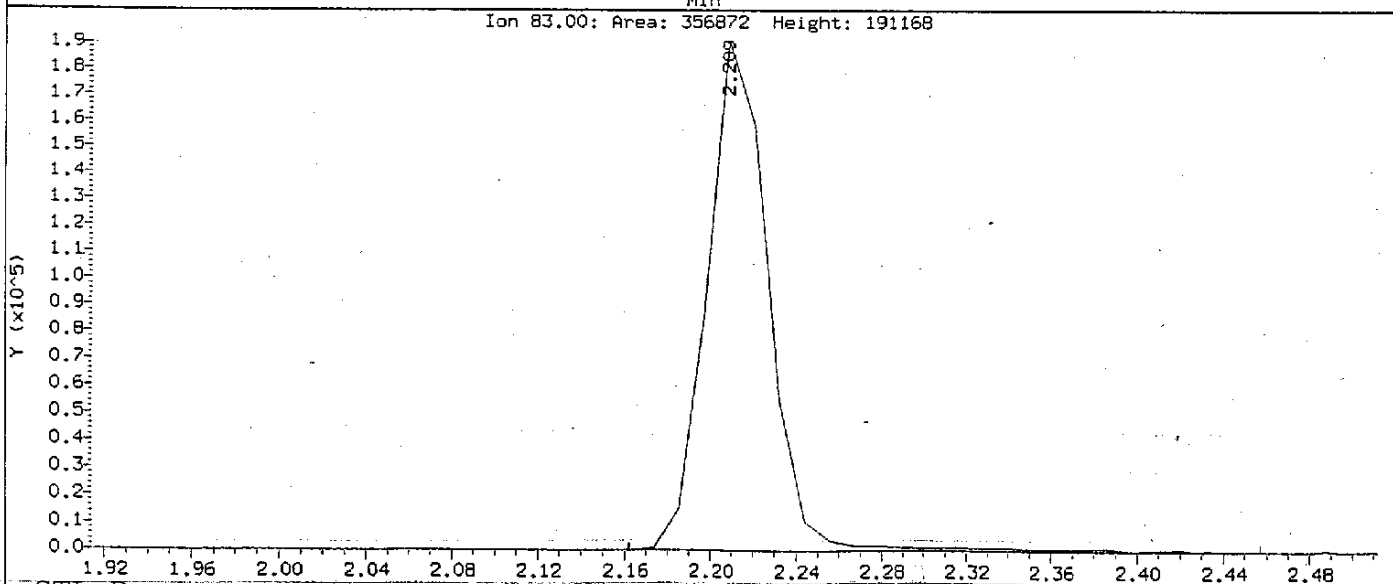
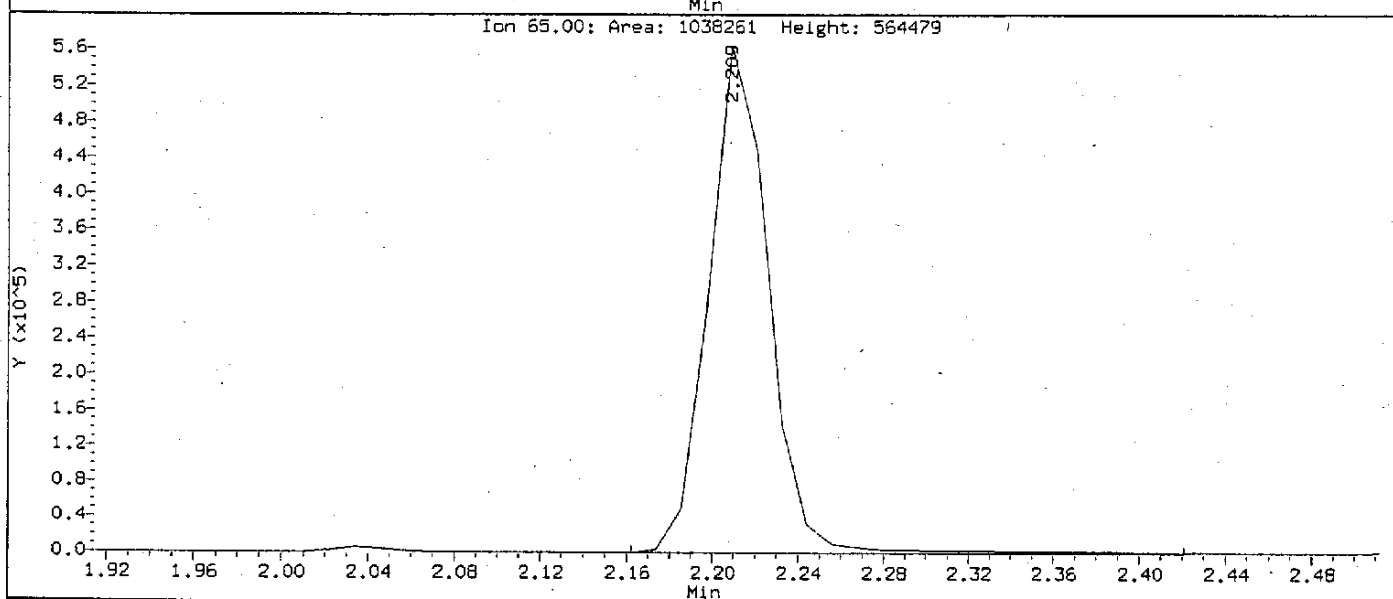
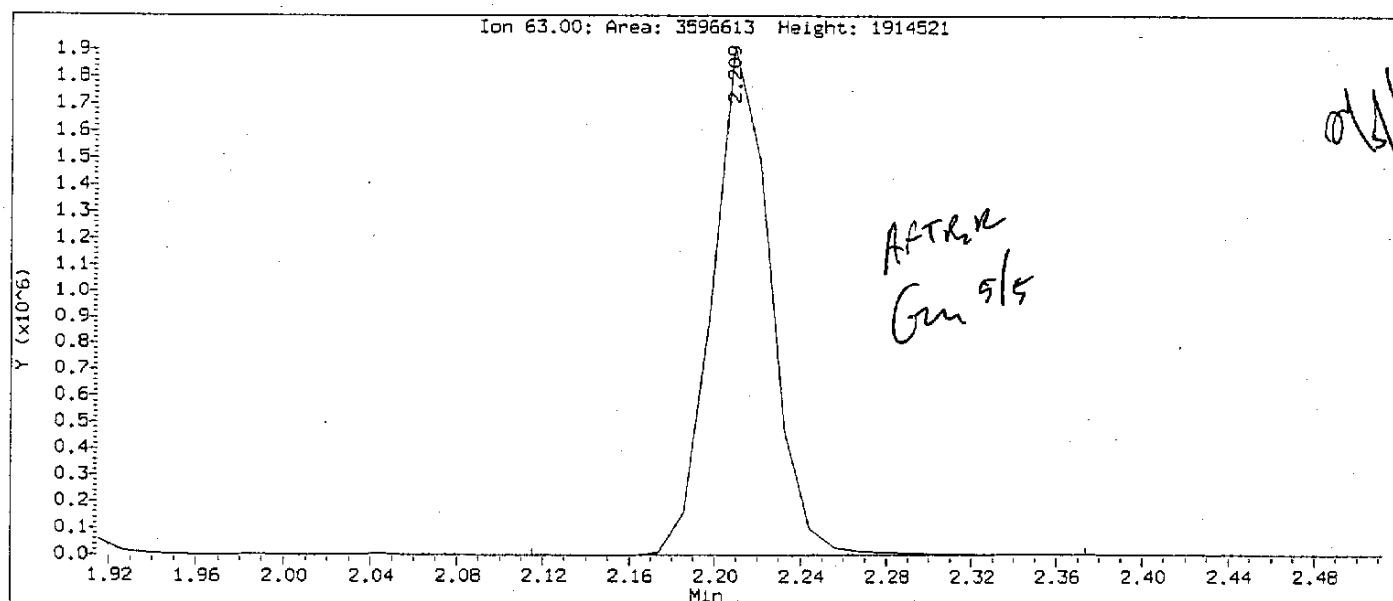
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Injection Date: 05-MAY-2004 16:32  
Instrument: C.1  
Client Sample ID: SSV\_030

Compound: 1,1-Dichloroethane  
CAS Number: 75-34-3



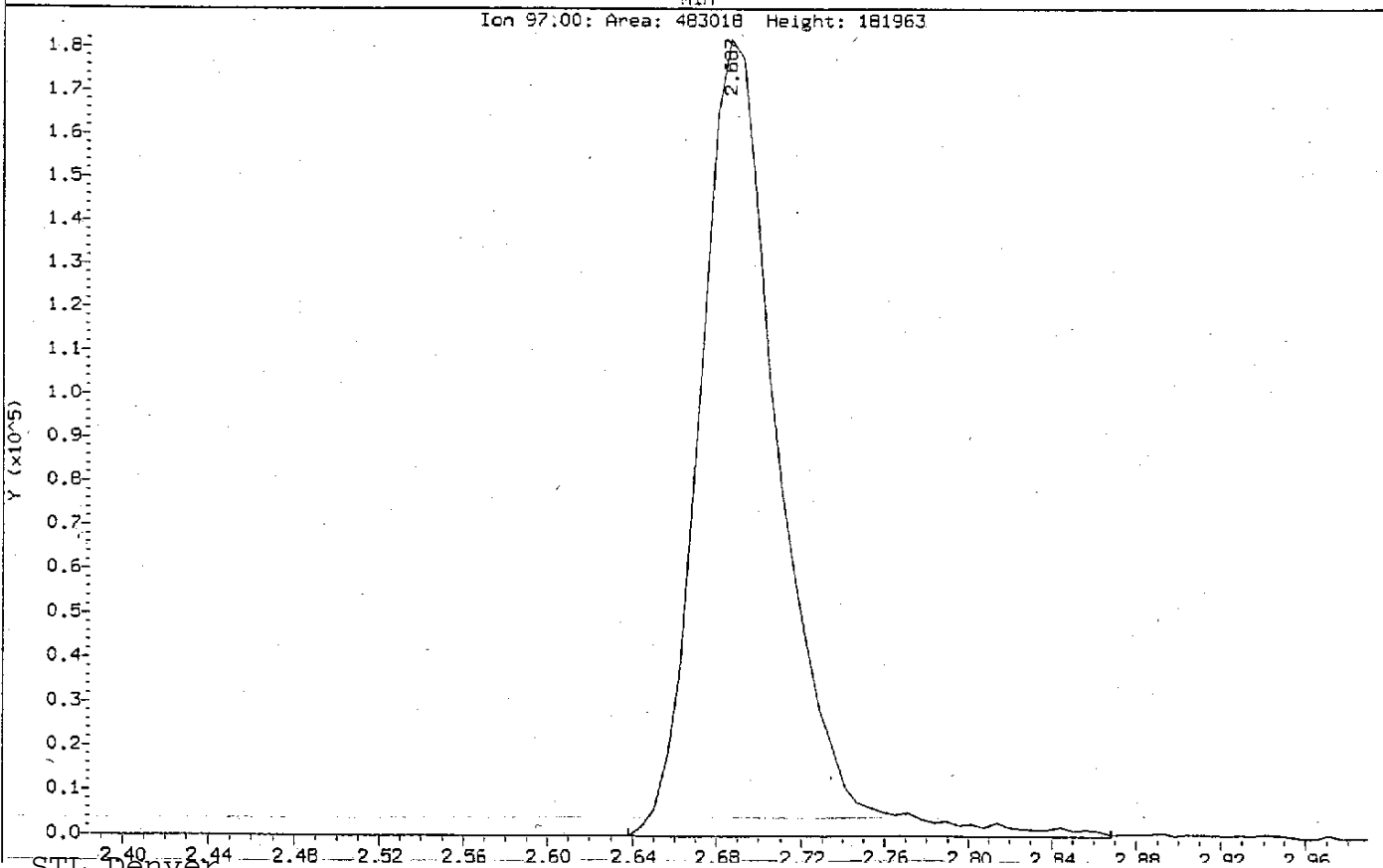
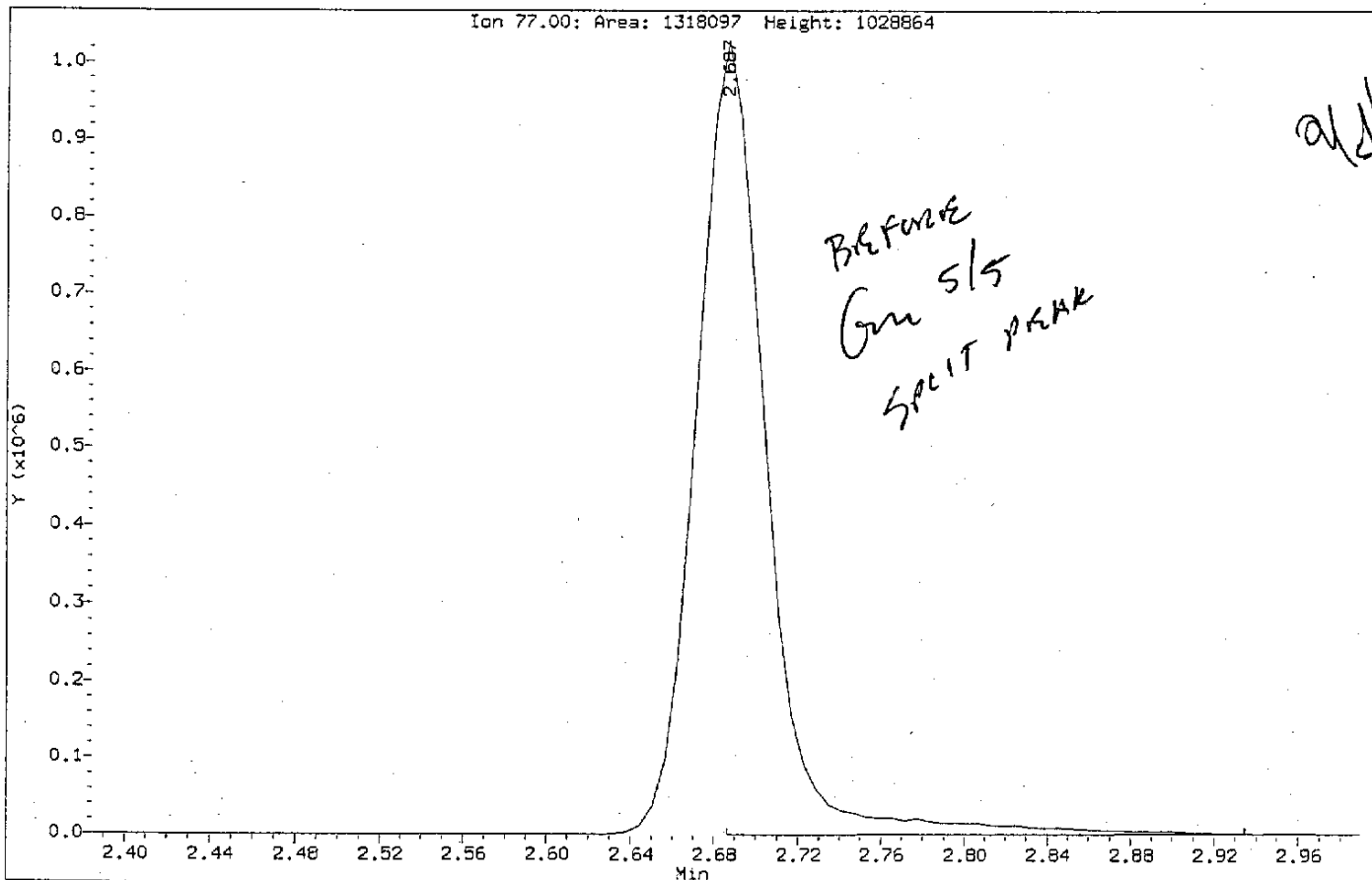
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Instrument: C.1  
Client Sample ID: SSV\_030

Compound: 1,1-Dichloroethane  
CAS Number: 75-34-3



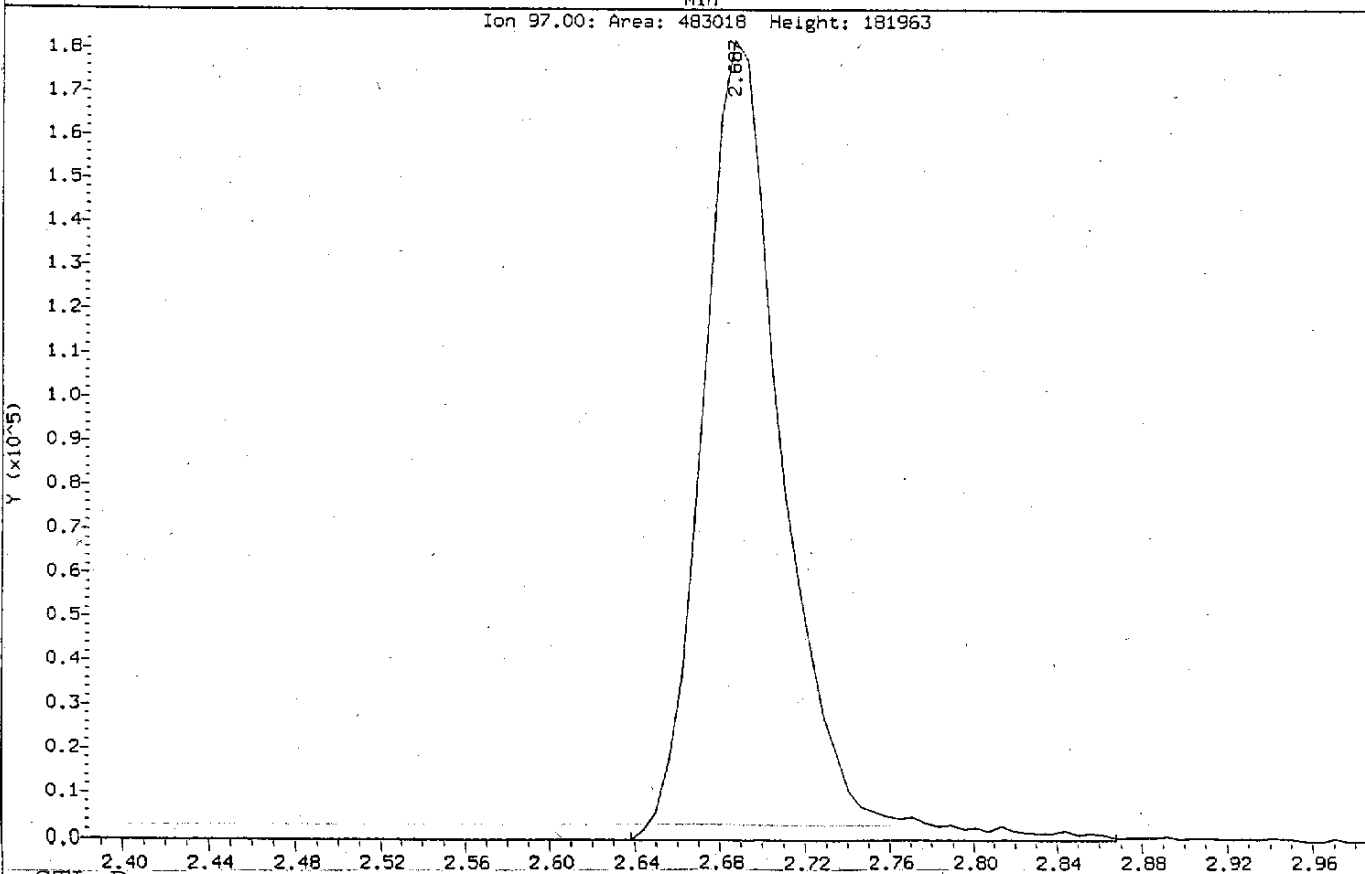
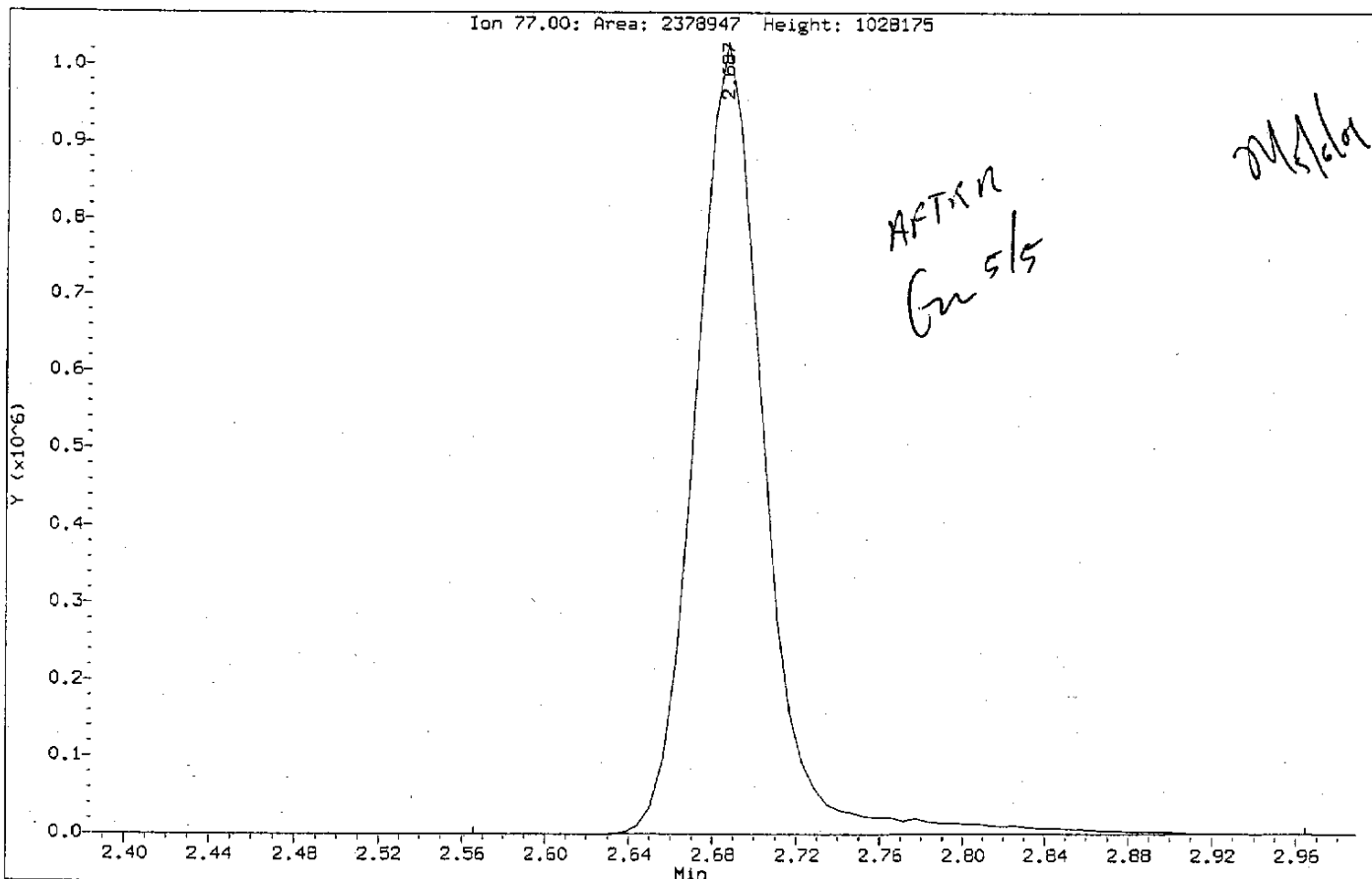
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Injection Date: 05-MAY-2004 16:32  
Instrument: C.1  
Client Sample ID: SSV\_030

Compound: 2,2-Dichloropropane  
CAS Number: 594-20-7



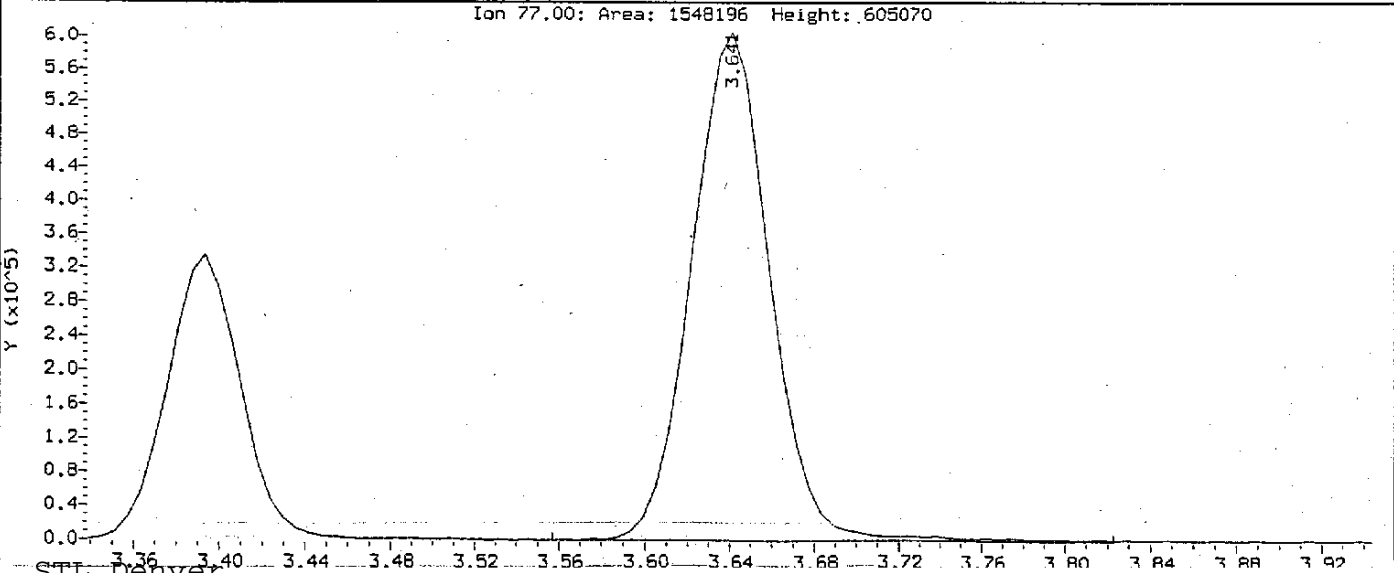
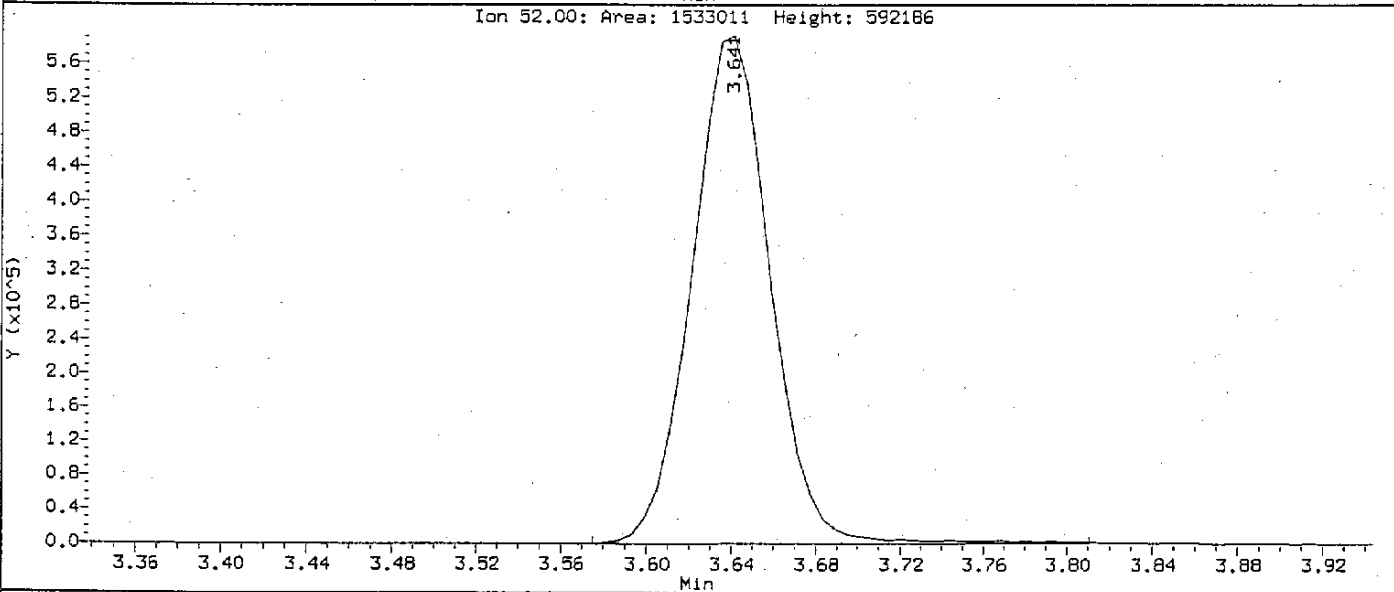
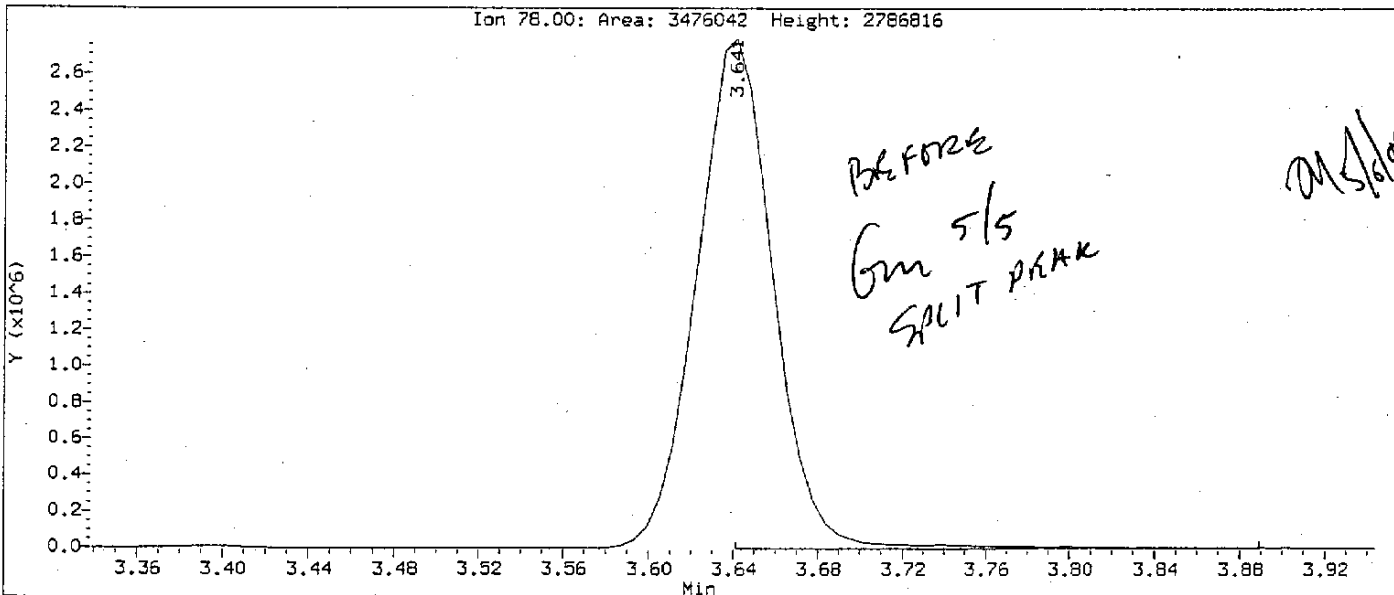
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Injection Date: 05-MAY-2004 16:32  
Instrument: C.1  
Client Sample ID: SSV\_030

Compound: 2,2-Dichloropropane  
CAS Number: 594-20-7



Data File: /chem/C.1/0505041.b/c0311.d  
Injection Date: 05-MAY-2004 16:32  
Instrument: C.i  
Client Sample ID: SSV\_030

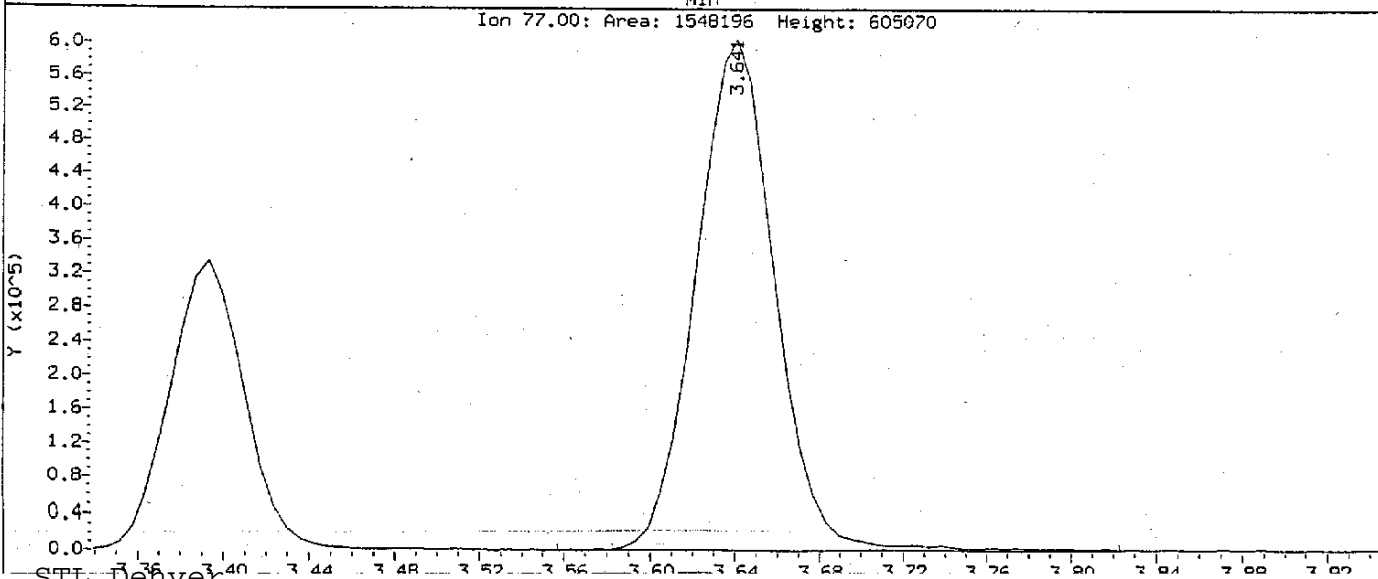
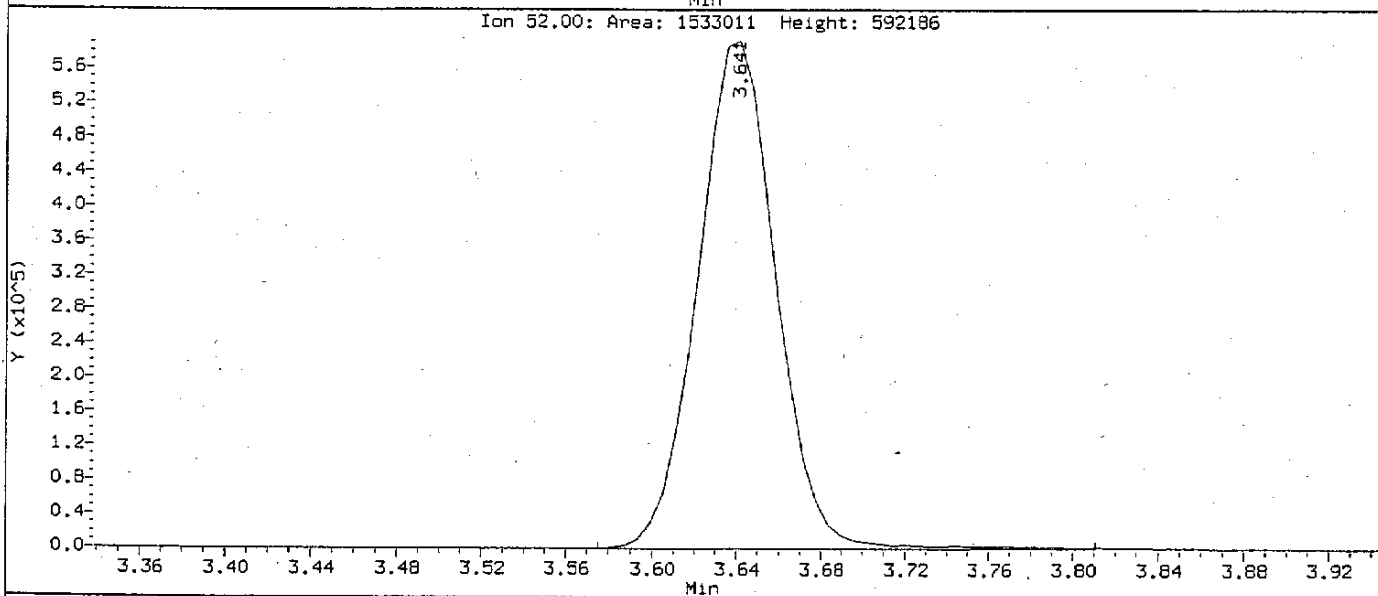
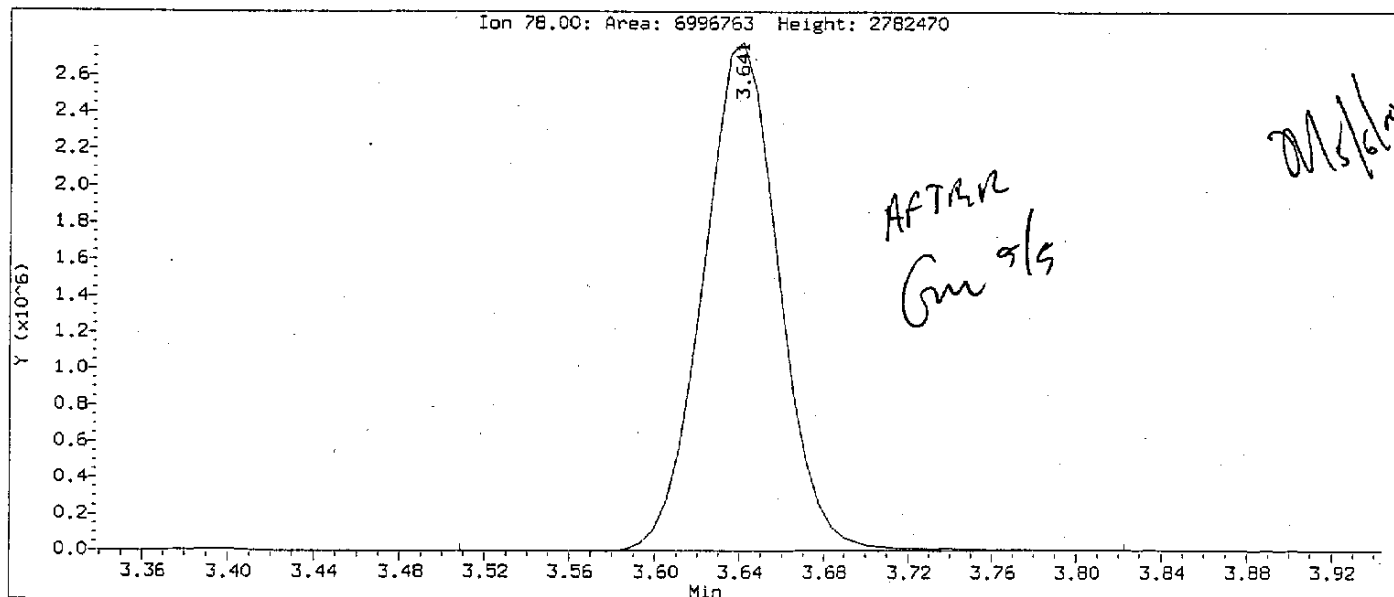
Compound: Benzene  
CAS Number: 71-43-2





Data File: /chem/C.i/050504i.b/c0311.d  
Injection Date: 05-MAY-2004 16:32  
Instrument: C.i  
Client Sample ID: SSV\_030

Compound: Benzene  
CAS Number: 71-43-2



## GC/MS Initial Calibration Review Checklist

STL Denver

Instrument ID and Date: C SUPP 5/10/04Check Method Used: Analysis ☐ 625 ☐ 8270 ☐ Other SV \_\_\_\_\_☐ 524.2 ☐ 624 ☒ 8260B ☐ Other VOA \_\_\_\_\_VOA Preparation ☐ 5mL ☒ 20mL ☐ 5035 Low ☐ 5035 High ☐ 5030 Low ☐ 5030 High

Review Items	Level 1			Level 2	Comments
	Yes	No	N/A		
<b>Initial Calibration</b>					
1. BFB/DFTPP meets criteria?	✓			✓	
2. ICAL date and instrument ID verified?	✓			✓	
3. Sufficient number of calibration points used?	✓			✓	
4. Reasons for removal of points documented?	✓			✓	
5. %RSD or correlation coefficient within method limits?	✓			✓	
6. If RRF used for ICAL, were all compounds within 15% RSD?			✓	NA	List all exceptions below (cpd & RSD)
7. Response factors meet criteria?	✓			✓	
8. Isomeric pairs checked for correct peak assignment?	✓			✓	
9. Data checked for detector saturation?	✓			✓	
10. Standards traceability properly documented?	✓			✓	
11. Manual integrations documented and checked?	✓			✓	
12. 2 <sup>nd</sup> source ICV recovery 75-125% for DoD projects, 65-135% (±55% of expected for poor performers) for non-DoD?			✓	NA	

High & ETBE = 150  
 Some pks < RL REMOVED

1st Level Reviewer: DMDate: 5/10/042nd Level Reviewer: DTDate: 5-11-04

STL, Denver

## GC/MS Volatile Analysis

Instrument C

5972 MSD

Column	Phase	Inj. Temp	Init. Time	Ramp Rate	Final Temp	Flow cc/min	Press. Psi	Type	Vac. Range	Source Temp	Mass Range
75M	DB-624	200C	2 min.	5C/min	65C	1.8	20	MS	10 <sup>-6</sup>	-175C	35-300/2 <sup>+</sup> 2
			0 min.	12C/min	155C						
			0 min.	25C/min	210C						

Comments

DEN-MS-0010 (626)B/624/524.2)  
(Circle as appropriate)Target Batch (Directory): C 051004.b

IS/SS 98/

QuantIMS Batch:

Lot #	Sample	W.O.#	Purge vol (ml)	Sample amt (ml/g)	Date	Initials	File Number	IS OK	SS OK	DIL OK	24 hr 12 hr	pH	Comments	ALS
BFB		1st dir ing			5/10/04	DM	C 0451.d			NA	✓		#073-04 1809	
MAIN 010			20				52	✓			✓		#87/67-04	
SUPP 001				0.5µl			53	✓	✓		✓		#52/11-04	
2				1			54	✓	✓		✓		#6	
5				25			55	✓	✓		✓			
10				5			56	✓	✓		✓			
30				15			57	✓	✓		✓			
60				30			58	✓	✓		✓			
LCS				10µl			59	✓	✓		✓			
VBVK				20			60	✓	✓		✓			
LCS				10µl			61	✓	✓		✓		#64-04	
DAD 290397	3			20			62	✓			✓			
	35						63				✓			
	3D						64				✓			
	4						65				✓			
	3						66				✓			
DAD 290233	3						67				✓			
	4						68				✓			
	5						69				✓			
	6						70				✓			

Calibration History

Method : /chem/C.i/051004.b/C-20ml-AQ.m  
Start Cal Date: 02-MAR-2004 00:09  
End Cal Date : 10-MAY-2004 20:33

Initial Calibration

Injection Date	Sublist	Calibration File
Cal Level: 1 , Cal Amount: 1.00000		
10-MAY-2004 18:45	2-supp	/chem/C.i/051004.b/c0453.d
05-MAY-2004 13:47	1-main	/chem/C.i/050504i.b/c0304.d
Cal Level: 2 , Cal Amount: 2.00000		
10-MAY-2004 19:07	2-supp	/chem/C.i/051004.b/c0454.d
05-MAY-2004 14:11	1-main	/chem/C.i/050504i.b/c0305.d
Cal Level: 3 , Cal Amount: 5.00000		
10-MAY-2004 19:29	2-supp	/chem/C.i/051004.b/c0455.d
05-MAY-2004 14:35	1-main	/chem/C.i/050504i.b/c0306.d
Cal Level: 4 , Cal Amount: 10.0000		
10-MAY-2004 19:50	2-supp	/chem/C.i/051004.b/c0456.d
05-MAY-2004 14:59	1-main	/chem/C.i/050504i.b/c0307.d
Cal Level: 5 , Cal Amount: 30.0000		
10-MAY-2004 20:11	2-supp	/chem/C.i/051004.b/c0457.d
05-MAY-2004 15:23	1-main	/chem/C.i/050504i.b/c0308.d
Cal Level: 6 , Cal Amount: 60.0000		
10-MAY-2004 20:33	2-supp	/chem/C.i/051004.b/c0458.d
05-MAY-2004 15:46	1-main	/chem/C.i/050504i.b/c0309.d

Continuing Calibration

10-MAY-2004 19:50	2-supp	/chem/C.i/051004.b/c0456.d
10-MAY-2004 18:23	1-main	/chem/C.i/051004.b/c0452.d

Report Date : 10-May-2004 21:32

Page 5

## STL Denver

## INITIAL CALIBRATION DATA

Start Cal Date : 02-MAR-2004 00:09  
 End Cal Date : 10-MAY-2004 20:33  
 Quant Method : ISTD  
 Target Version : 3.40  
 Integrator : Falcon  
 Method file : /chem/C.i/051004.b/C-20ml-AQ.m  
 Cal Date : 10-May-2004 21:32 reinharj

Compound	1	2	5	10	30	60	Curve	Coefficients			%RSD or R <sup>2</sup>
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6		b	m1	m2	
23 Allyl Chloride	0.76785	0.74396	0.68083	0.65045	0.66163	0.68393	AVRG		0.69811		6.73930
22 2-Propanol	0.00667	0.00635	0.00547	0.00536	0.00529	0.00519	AVRG		0.00572		10.96636
28 Methyl t-butyl ether	0.41470	0.41856	0.37751	0.36113	0.36795	0.35811	AVRG		0.38300		7.02861
31 Hexane	5.96681	5.91297	5.10944	4.83367	4.85367	5.12178	AVRG		5.29972		9.64016
35 Vinyl acetate	++++	0.22314	0.20376	0.19581	0.17460	0.20444	AVRG		0.20035		8.75623
36 ETBE	0.88364	0.90316	0.82045	0.80684	0.83936	++++	AVRG		0.85069		4.84846
40 Ethyl Acetate	0.11302	0.10861	0.09251	0.08709	0.09017	0.08817	AVRG		0.09660		11.64866
43 Tetrahydrofuran	++++	0.03109	0.02609	0.02584	0.02612	0.02533	AVRG		0.02689		8.80332
46 Cyclohexane	0.94794	0.93312	0.81074	0.77553	0.77658	0.80111	AVRG		0.84084		9.34409
55 TAME	0.44051	0.44866	0.40845	0.40364	0.42377	0.40926	AVRG		0.42238		4.41466
61 2-Pentanone	0.39552	0.43815	0.40111	0.40255	0.43522	0.43374	AVRG		0.41772		4.76297
58 Methyl Cyclohexane	0.79494	0.80510	0.70068	0.66515	0.67145	0.68395	AVRG		0.72021		8.75845
64 Methyl Methacrylate	0.02111	0.02295	0.02225	0.02248	0.02415	0.02359	AVRG		0.02275		4.70116
66 2-nitropropane	++++	0.08993	0.09368	0.09347	0.10508	0.11373	AVRG		0.09918		10.01907
67 2-Chloroethyl vinyl ether	1214	3277	9350	24413	122259	356487	QUAD	0.16479	7.58220	-2.33963	0.99840
73 Ethyl methacrylate	0.68972	0.77911	0.76495	0.77816	0.86326	0.85275	AVRG		0.78799		8.07075
77 Tetrahydrothiophene	0.26530	0.27164	0.27775	0.28598	0.32856	0.32893	AVRG		0.29303		9.72622

## STL Denver

## INITIAL CALIBRATION DATA

Start Cal Date : 02-MAR-2004 00:09  
 End Cal Date : 10-MAY-2004 20:33  
 Quant Method : ISTD  
 Target Version : 3.40  
 Integrator : Falcon  
 Method file : /chem/C.i/051004.b/C-20ml-AQ.m  
 Cal Date : 10-May-2004 21:32 reinharj

Compound	1	2	5	10	30	60	Curve	Coefficients			*RSD or R <sup>2</sup>
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6		b	m1	m2	
92 cis-1,4-dichloro-2-butene	0.12309	0.11294	0.10217	0.10681	0.12007	0.12661	AVRG		0.11528		8.33322
98 t-1,4-Dichloro-2-butene	0.12612	0.12902	0.11069	0.10731	0.12536	0.12894	AVRG		0.12124		7.96407
109 1,2,3-Trimethylbenzene	4.46222	4.46160	3.95926	3.84987	4.13287	4.23051	AVRG		4.18272		6.06135
\$ 48 Dibromofluoromethane	0.22421	0.22071	0.20857	0.20151	0.20530	+++++	AVRG		0.21206		4.66727
\$ 52 1,2-Dichloroethane-d4	0.23695	0.23890	0.22324	0.21810	0.21698	+++++	AVRG		0.22683		4.59290
\$ 69 Toluene-d8	6.09920	6.13077	5.53320	5.32046	5.45798	+++++	AVRG		5.70832		6.64212
\$ 93 Bromofluorobenzene	1.87554	1.83786	1.66841	1.57803	1.64487	+++++	AVRG		1.72094		7.49467

Curve	Formula	Units
Averaged	Amt = Rsp/ml	Response
Linear	Amt = b + Rsp/ml	Response
Quad	Amt = b + m1*Rsp + m2*Rsp <sup>2</sup>	Response

## STL Denver

## INITIAL CALIBRATION DATA

Start Cal Date : 02-MAR-2004 00:09  
 End Cal Date : 10-MAY-2004 20:33  
 Quant Method : ISTD  
 Target Version : 3.40  
 Integrator : Falcon  
 Method file : /chem/C.i/051004.b/C-20ml-AQ.m  
 Cal Date : 10-May-2004 21:32 reinharj

## Calibration File Names:

Level 1: /chem/C.i/051004.b/c0453.d  
 Level 2: /chem/C.i/051004.b/c0454.d  
 Level 3: /chem/C.i/051004.b/c0455.d  
 Level 4: /chem/C.i/051004.b/c0456.d  
 Level 5: /chem/C.i/051004.b/c0457.d  
 Level 6: /chem/C.i/051004.b/c0458.d

Compound	1	2	5	10	30	60	Curve	Coefficients			%RSD or R <sup>2</sup>
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6		b	m1	m2	
2 Dichlorotetrafluoroethane	0.27634	0.25597	0.22205	0.20408	0.19726	0.20373	AVRG		0.22657		14.29966
5 Ethylene Oxide	58380	92125	232701	424014	1292749	2312276	LINR	-15.23272	0.00182		0.99532
8 Dichlorofluoromethane	0.45440	0.44625	0.37883	0.36042	0.33873	0.33675	AVRG		0.38590		13.55144
11 Ethyl Ether	0.20248	0.20102	0.18157	0.14453	0.17544	0.14576	AVRG		0.17513		14.57707
13 1,2-dichloro-1,1,2-trifluoroe	47436	92677	204924	313619	1103775	2207212	LINR	-0.05346	0.21461		0.99916
14 2,2-dichloro-1,1,1-trifluoroe	0.49680	0.48832	0.41616	0.38616	0.37138	0.36912	AVRG		0.42132		13.70360
16 Trichlorotrifluoroethane	0.21021	0.21059	0.18052	0.16879	0.16171	0.16026	AVRG		0.18201		12.70557
21 Carbon Disulfide	1.25874	1.25862	1.09048	1.02048	1.02787	1.07120	AVRG		1.12123		9.77829
24 Methyl Acetate	0.10147	0.10041	0.08762	0.08549	0.08703	0.08658	AVRG		0.09143		8.09649

Date : 10-MAY-2004 18:09

Client ID: BFB

Instrument: C.i

Sample Info: bfb

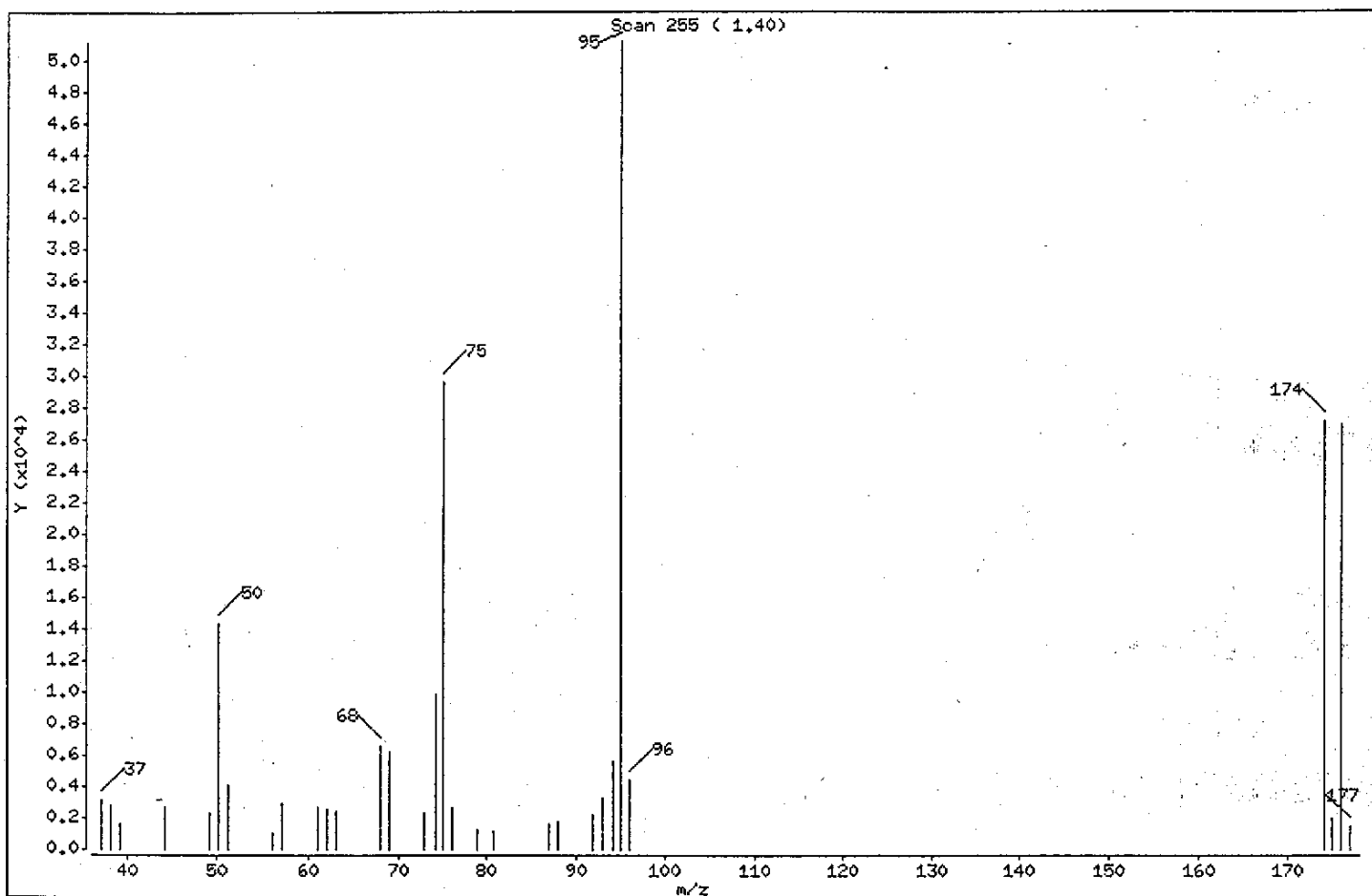
Volume Injected (uL): 1.0

Operator: reinharj

Column phase: DB624

Column diameter: 0.53

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	28.12
75	30.00 - 60.00% of mass 95	58.00
96	5.00 - 9.00% of mass 95	8.65
173	Less than 2.00% of mass 174	0.00 ( 0.00)
174	50.00 - 100.00% of mass 95	53.06
175	5.00 - 9.00% of mass 174	3.95 ( 7.45)
176	95.00 - 101.00% of mass 174	52.67 ( 99.26)
177	5.00 - 9.00% of mass 176	3.09 ( 5.86)



Data File: /chem/C.i/051004.b/c0451.d

Page 3

Date : 10-MAY-2004 18:09

Client ID: BFB

Instrument: C.i

Sample Info: bfb

Volume Injected (uL): 1.0

Operator: reinharj

Column phase: DB624

Column diameter: 0.53

Data File: c0451.d

Spectrum: Scan 255 ( 1.40)

Location of Maximum: 95.00

Number of points: 31

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.10	3200	57.15	2964	75.10	29672	94.10	5645
38.20	2856	61.10	2742	76.10	2752	95.00	51160
39.25	1703	62.10	2644	78.90	1305	96.05	4427
44.05	2753	63.10	2464	80.80	1148	174.00	27144
49.10	2405	68.05	6546	87.05	1655	175.00	2022
50.10	14386	69.15	6227	88.05	1754	176.00	26944
51.10	4164	73.05	2363	92.00	2176	177.00	1580
56.15	1098	74.10	9902	93.00	3267		

Data File: /chem/C.i/051004.b/c0451.d

Date : 10-MAY-2004 18:09

Client ID: BFB

Sample Info: bfb

Volume Injected (uL): 1.0

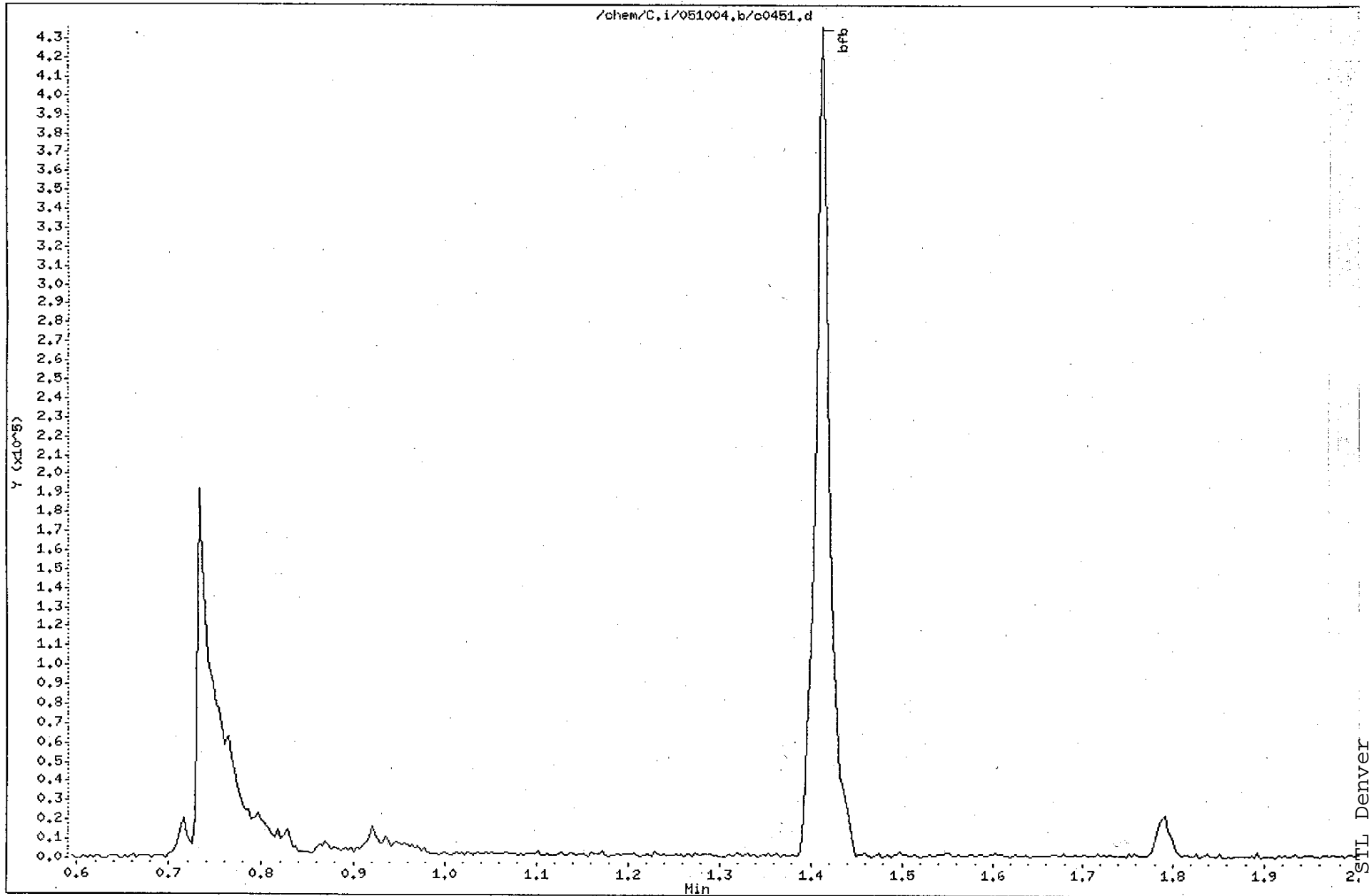
Column phase: DB624

Instrument: C.i

Operator: reinharj

Column diameter: 0.53

Page 1



## STL Denver

## INITIAL CALIBRATION DATA

Start Cal Date : 02-MAR-2004 00:09  
 End Cal Date : 10-MAY-2004 20:33  
 Quant Method : ISTD  
 Origin : Disabled  
 Target Version : 3.40  
 Integrator : Falcon  
 Method file : /chem/C.i/051004.b/C-20ml-AQ.m  
 Cal Date : 10-May-2004 21:24 reinharj  
 Curve Type : Average

## Calibration File Names:

Level 1: /chem/C.i/051004.b/c0453.d  
 Level 2: /chem/C.i/051004.b/c0454.d  
 Level 3: /chem/C.i/051004.b/c0455.d  
 Level 4: /chem/C.i/051004.b/c0456.d  
 Level 5: /chem/C.i/051004.b/c0457.d  
 Level 6: /chem/C.i/051004.b/c0458.d

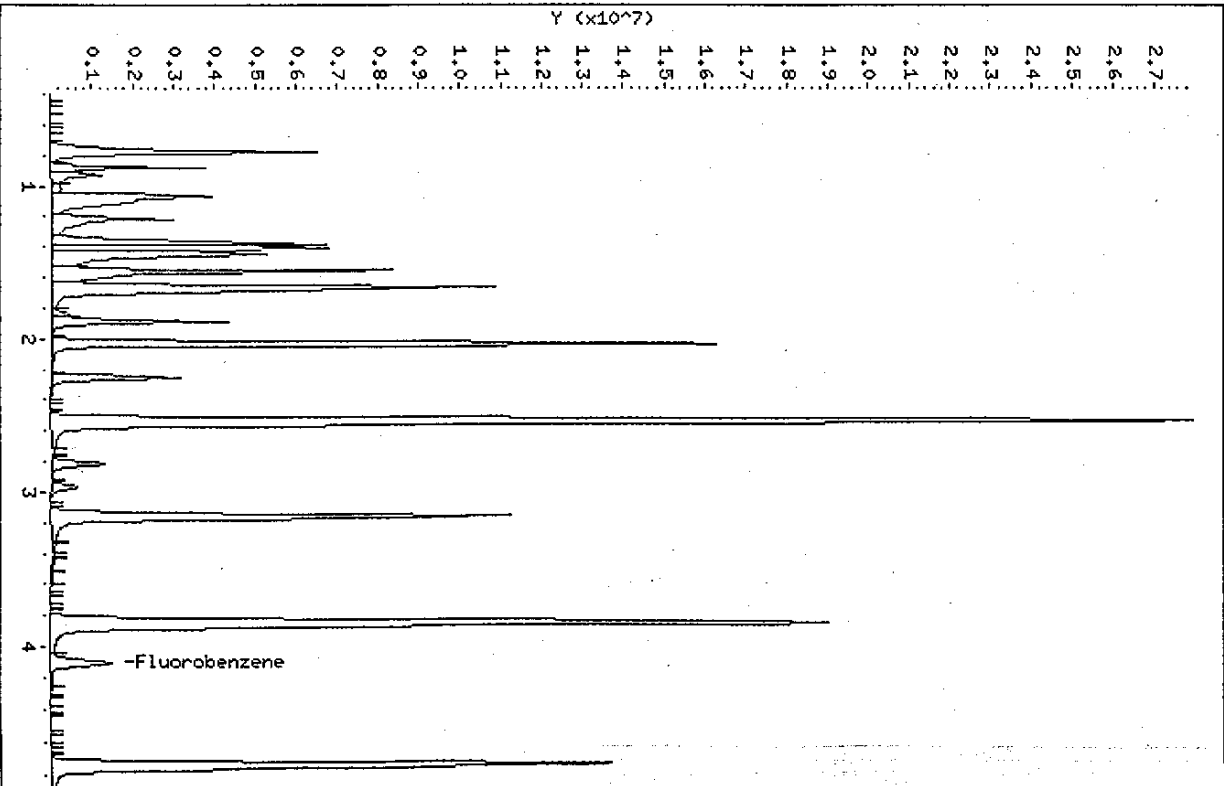
Compound	1.000 Level 1	2.000 Level 2	5.000 Level 3	10.000 Level 4	30.000 Level 5	60.000 Level 6	RRF	% RSD
2 Dichlorotetrafluoroethane	0.27634	0.25597	0.22205	0.20408	0.19726	0.20373	0.22657	14.300
5 Ethylene Oxide	0.00310	0.00246	0.00195	0.00216	0.00207	0.00181	0.00226	20.740 <-
8 Dichlorofluoromethane	0.45440	0.44625	0.37883	0.36042	0.33873	0.33675	0.38590	13.551
11 Ethyl Ether	0.20248	0.20102	0.18157	0.14453	0.17544	0.14576	0.17513	14.577
13 1,2-dichloro-1,1,2-trifluoroe	0.31531	0.30930	0.26570	0.19952	0.22124	0.21619	0.25454	19.582 <-
14 2,2-dichloro-1,1,1-trifluoroe	0.49680	0.48832	0.41616	0.38616	0.37138	0.36912	0.42132	13.704
16 Trichlorotrifluoroethane	0.21021	0.21059	0.18052	0.16879	0.16171	0.16026	0.18201	12.706
21 Carbon Disulfide	1.25874	1.25862	1.09048	1.02048	1.02787	1.07120	1.12123	9.778
24 Methyl Acetate	0.10147	0.10041	0.08762	0.08549	0.08703	0.08658	0.09143	8.096
23 Allyl Chloride	0.76785	0.74396	0.68083	0.65045	0.66163	0.68393	0.69811	6.739
22 2-Propanol	0.00667	0.00635	0.00547	0.00536	0.00529	0.00519	0.00572	10.966
28 Methyl t-butyl ether	0.41470	0.41856	0.37751	0.36113	0.36795	0.35811	0.38300	7.029
31 Hexane	5.96681	5.91297	5.10944	4.83367	4.85367	5.12178	5.29972	9.640
35 Vinyl acetate	+++++	0.22314	0.20376	0.19581	0.17460	0.20444	0.20035	8.756
36 ETBE	0.88364	0.90316	0.82045	0.80684	0.83936	+++++	0.85069	4.848
40 Ethyl Acetate	0.11302	0.10861	0.09251	0.08709	0.09017	0.08817	0.09660	11.649
43 Tetrahydrofuran	+++++	0.03109	0.02609	0.02584	0.02612	0.02533	0.02689	8.803
46 Cyclohexane	0.94794	0.93312	0.81074	0.77553	0.77658	0.80111	0.84084	9.344
55 TAME	0.44051	0.44866	0.40845	0.40364	0.42377	0.40926	0.42238	4.415
61 2-Pentanone	0.39552	0.43815	0.40111	0.40255	0.43522	0.43374	0.41772	4.763
58 Methyl Cyclohexane	0.79494	0.80510	0.70068	0.66515	0.67145	0.68395	0.72021	8.758
64 Methyl Methacrylate	0.02111	0.02295	0.02225	0.02248	0.02415	0.02359	0.02275	4.701
66 2-nitropropane	+++++	0.08993	0.09368	0.09347	0.10508	0.11373	0.09918	10.019
67 2-Chloroethyl vinyl ether	0.04927	0.06694	0.07276	0.09329	0.14665	0.20912	0.10634	56.885 <-
73 Ethyl methacrylate	0.68972	0.77911	0.76495	0.77816	0.86326	0.85275	0.78799	8.071

STL Denver

INITIAL CALIBRATION DATA

Start Cal Date : 02-MAR-2004 00:09  
End Cal Date : 10-MAY-2004 20:33  
Quant Method : ISTD  
Origin : Disabled  
Target Version : 3.40  
Integrator : Falcon  
Method file : /chem/C.i/051004.b/C-20ml-AQ.m  
Cal Date : 10-May-2004 21:24 reinharj  
Curve Type : Average

Compound	1.000	2.000	5.000	10.000	30.000	60.000		
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	RRF	% RSD
77 Tetrahydrothiophene	0.26530	0.27164	0.27775	0.28598	0.32856	0.32893	0.29303	9.726
92 cis-1,4-dichloro-2-butene	0.12309	0.11294	0.10217	0.10681	0.12007	0.12661	0.11528	8.333
98 t-1,4-Dichloro-2-butene	0.12612	0.12902	0.11069	0.10731	0.12536	0.12894	0.12124	7.964
109 1,2,3-Trimethylbenzene	4.46222	4.46160	3.95926	3.84987	4.13287	4.23051	4.18272	6.061
\$ 48 Dibromofluoromethane	0.22421	0.22071	0.20857	0.20151	0.20530	++++	0.21206	4.667
\$ 52 1,2-Dichloroethane-d4	0.23695	0.23890	0.22324	0.21810	0.21698	++++	0.22683	4.593
\$ 69 Toluene-d8	6.09920	6.13077	5.53320	5.32046	5.45798	++++	5.70832	6.642
\$ 93 Bromofluorobenzene	1.87554	1.83786	1.66841	1.57803	1.64487	++++	1.72094	7.495



Data File: /chem/C.i/051004.b/c00458.d  
Date : 10-MAY-2004 20:33  
Client ID: SUPP060  
Sample Info: SUPP060  
Purge Volume: 20.0  
Column Phase: DB624

STL Denver

VOLATILE REPORT SW-846

Data file : /chem/C.i/051004.b/c0453.d  
 Lab Smp Id: SUPP001 Client Smp ID: SUPP001  
 Inj Date : 10-MAY-2004 18:45  
 Operator : reinharj Inst ID: C.i  
 Smp Info : SUPP010  
 Misc Info :  
 Comment : Purge and Trap Analysis  
 Method : /chem/C.i/051004.b/C-20ml-AQ.m  
 Meth Date : 10-May-2004 21:31 reinharj Quant Type: ISTD  
 Cal Date : 10-MAY-2004 20:33 Cal File: c0458.d  
 Als bottle: 2 Calibration Sample, Level: 1  
 Dil Factor: 1.00000  
 Integrator: Falcon Compound Sublist: 2-suppl.sub  
 Target Version: 3.40  
 Processing Host: chemsv02

Concentration Formula: Amt \* DF \* Vp/Vs

Name	Value	Description
DF	1.000	Dilution Factor
Vp	20.000	Final Purge Volume (ml)
Vs	20.000	Sample Volume (ml)

Compounds	QUANT SIG						AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE		CAL-AMT ( ug/L)	ON-COL ( ug/L)
* 56 Fluorobenzene	96	4.106	4.106	(1.000)	1504412		10.0000	
* 81 Chlorobenzene-d5	119	7.563	7.563	(1.000)	246398		10.0000	
* 107 1,4-Dichlorobenzene-d4	152	9.720	9.720	(1.000)	280367		10.0000	
\$ 48 Dibromofluoromethane	111	3.236	3.236	(0.788)	33731		1.00000	1.05732
\$ 52 1,2-Dichloroethane-d4	65	3.677	3.677	(0.896)	35647		1.00000	1.04460
\$ 69 Toluene-d8	98	6.082	6.082	(0.804)	150283		1.00000	1.06847
\$ 93 Bromofluorobenzene	95	8.693	8.693	(1.149)	46213		1.00000	1.08983
2 Dichlorotetrafluoroethane	85	0.872	0.872	(0.212)	41573		1.00000	1.21966
5 Ethylene Oxide	43	1.072	1.072	(0.261)	58380		125.000	60.3691(a)
8 Dichlorofluoromethane	67	1.213	1.213	(0.295)	68361		1.00000	1.17752
11 Ethyl Ether	59	1.354	1.354	(0.330)	30461		1.00000	1.15614(a)
13 1,2-dichloro-1,1,2-trifluoroet	117	1.378	1.378	(0.335)	47436		1.00000	0.934602(a)
14 2,2-dichloro-1,1,1-trifluoroet	83	1.413	1.413	(0.344)	74739		1.00000	1.17914
16 Trichlorotrifluoroethane	151	1.460	1.460	(0.356)	31624		1.00000	1.15492
21 Carbon Disulfide	76	1.566	1.566	(0.381)	189366		1.00000	1.12264
24 Methyl Acetate	43	1.695	1.695	(0.413)	76323		5.00000	5.54863

Compounds	QUANT SIG			REL RT	RESPONSE	AMOUNTS	
	MASS	RT	EXP RT			CAL-AMT ( ug/L)	ON-COL ( ug/L)
23 Allyl Chloride	41	1.671	1.671	(0.407)	115517	1.00000	1.09990(a)
22 2-Propanol	45	1.601	1.601	(0.390)	20071	20.0000	23.3152
28 Methyl t-butyl ether	73	1.895	1.895	(0.461)	62388	1.00000	1.08278(a)
31 Hexane	57	2.036	2.036	(0.269)	147021	1.00000	1.12587
35 Vinyl acetate	43	2.259	2.259	(0.550)	71936	2.00000	2.38668
36 ETBE	59	2.541	2.541	(0.619)	664680	5.00000	5.19367
40 Ethyl Acetate	43	2.819	2.819	(0.687)	34005	2.00000	2.34001(a)
43 Tetrahydrofuran	42	2.988	2.988	(0.728)	10326	2.00000	2.55209(a)
46 Cyclohexane	56	3.164	3.164	(0.770)	142609	1.00000	1.12737
55 TAME	73	3.853	3.853	(0.938)	331351	5.00000	5.21456
61 2-Pentanone	43	5.013	5.013	(0.663)	38982	4.00000	3.78743
58 Methyl Cyclohexane	55	4.741	4.741	(1.155)	119591	1.00000	1.10375
64 Methyl Methacrylate	100	5.200	5.200	(1.266)	6351	2.00000	1.85526
66 2-nitropropane	41	5.702	5.702	(0.754)	2067	1.00000	0.845856(a)
67 2-Chloroethyl vinyl ether	63	5.768	5.768	(0.763)	1214	1.00000	2.02089
73 Ethyl methacrylate	69	6.632	6.632	(0.877)	33989	2.00000	1.75057
77 Tetrahydrothiophene	60	6.947	6.947	(0.918)	6537	1.00000	0.905382(a)
92 cis-1,4-dichloro-2-butene	53	8.681	8.681	(0.893)	3451	1.00000	1.06772
98 t-1,4-Dichloro-2-butene	53	8.959	8.959	(0.922)	3536	1.00000	1.04025
109 1,2,3-Trimethylbenzene	105	9.787	9.787	(1.007)	125106	1.00000	1.06682

QC Flag Legend

a - Target compound detected but, quantitated amount  
Below Limit Of Quantitation(BLOQ).

STL Denver

INTERNAL STANDARD COMPOUNDS  
AREA AND RT SUMMARY

Instrument ID: C.i  
Lab File ID: c0453.d  
Lab Smp Id: SUPP001  
Analysis Type: VOA  
Quant Type: ISTD  
Operator: reinharj  
Method File: /chem/C.i/051004.b/C-20ml-AQ.m  
Misc Info:

Calibration Date: 05/10/4  
Calibration Time: 1823  
Client Smp ID: SUPP001  
Level: LOW  
Sample Type: WATER

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
=====	=====	=====	=====	=====	=====
56 Fluorobenzene	1685615	842808	3371230	1504412	-10.75
81 Chlorobenzene-d5	278883	139442	557766	246398	-11.65
107 1,4-Dichlorobenze	321860	160930	643720	280367	-12.89

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
=====	=====	=====	=====	=====	=====
56 Fluorobenzene	4.11	3.61	4.61	4.11	-0.01
81 Chlorobenzene-d5	7.56	7.06	8.06	7.56	-0.01
107 1,4-Dichlorobenze	9.72	9.22	10.22	9.72	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/C.i/051004.b/c0453.d

Date : 10-MAY-2004 18:45

Client ID: SUPP001

Sample Info: SUPP010

Purge Volume: 20.0

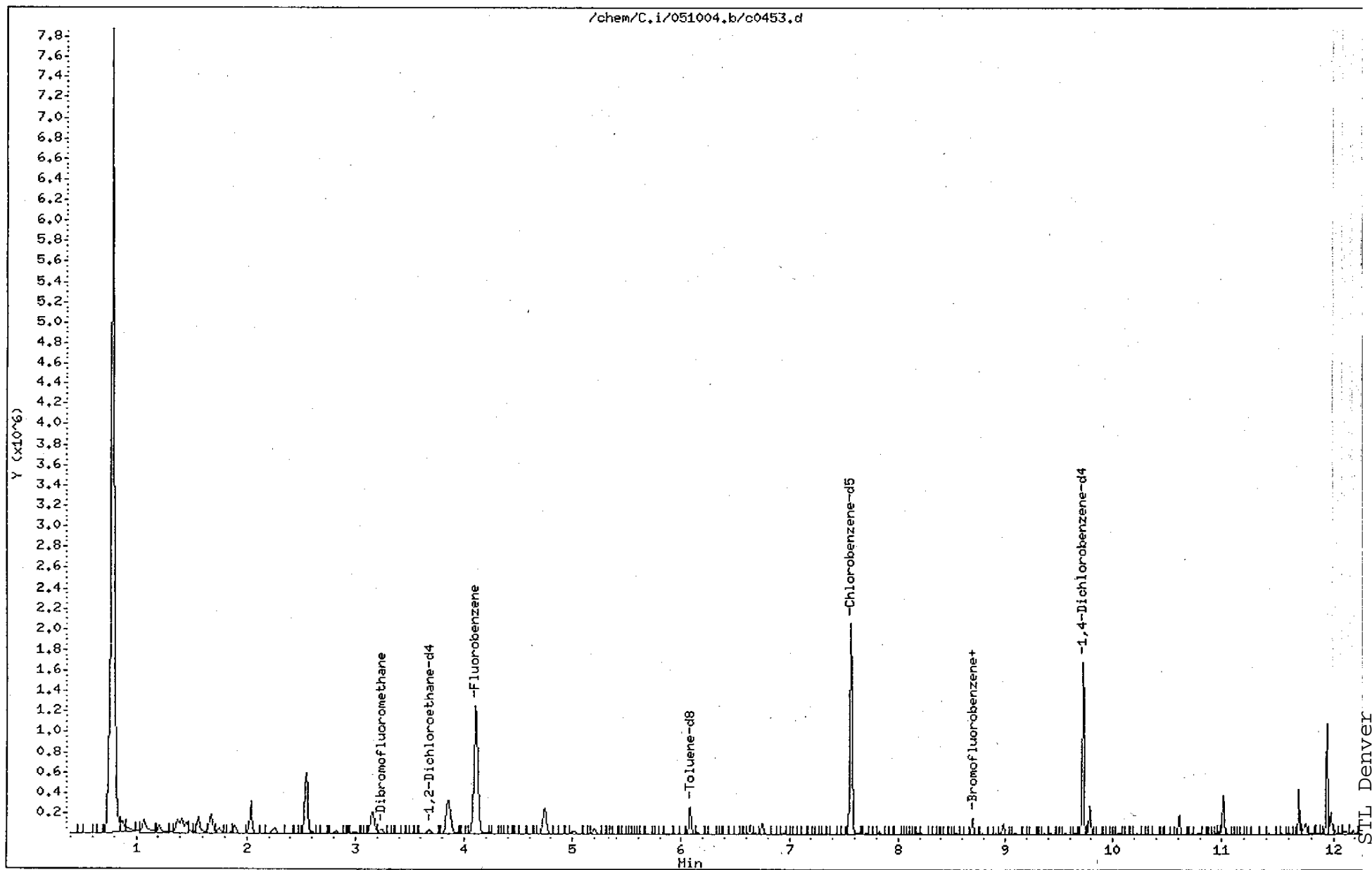
Column phase: DB624

Instrument: C.i

Operator: reinharj

Column diameter: 0.53

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STL Denver

VOLATILE REPORT SW-846

Data file : /chem/C.i/051004.b/c0454.d  
Lab Smp Id: SUPP002 Client Smp ID: SUPP002  
Inj Date : 10-MAY-2004 19:07  
Operator : reinharj Inst ID: C.i  
Smp Info : SUPP002  
Misc Info :  
Comment : Purge and Trap Analysis  
Method : /chem/C.i/051004.b/C-20ml-AQ.m  
Meth Date : 10-May-2004 21:31 reinharj Quant Type: ISTD  
Cal Date : 10-MAY-2004 20:33 Cal File: c0458.d  
Als bottle: 2 Calibration Sample, Level: 2  
Dil Factor: 1.00000  
Integrator: Falcon Compound Sublist: 2-suppl.sub  
Target Version: 3.40  
Processing Host: chemsv02

Concentration Formula: Amt \* DF \* Vp/Vs

Name	Value	Description
DF	1.000	Dilution Factor
Vp	20.000	Final Purge Volume (ml)
Vs	20.000	Sample Volume (ml)

Compounds	QUANT SIG			RESPONSE	AMOUNTS	
	MASS	RT	EXP RT REL RT		CAL-AMT ( ug/L)	ON-COL ( ug/L)
* 56 Fluorobenzene	96	4.107	4.107 (1.000)	1498155	10.0000	
* 81 Chlorobenzene-d5	119	7.564	7.564 (1.000)	244757	10.0000	
* 107 1,4-Dichlorobenzene-d4	152	9.721	9.721 (1.000)	280811	10.0000	
\$ 48 Dibromofluoromethane	111	3.237	3.237 (0.788)	66131	2.00000	2.08157
\$ 52 1,2-Dichloroethane-d4	65	3.684	3.684 (0.897)	71581	2.00000	2.10637
\$ 69 Toluene-d8	98	6.083	6.083 (0.804)	300110	2.00000	2.14801
\$ 93 Bromofluorobenzene	95	8.694	8.694 (1.149)	89966	2.00000	2.13588
2 Dichlorotetrafluoroethane	85	0.882	0.882 (0.215)	76696	2.00000	2.25949
5 Ethylene Oxide	43	1.070	1.070 (0.261)	92125	250.000	184.714
8 Dichlorofluoromethane	67	1.211	1.211 (0.295)	133709	2.00000	2.31277
11 Ethyl Ether	59	1.352	1.352 (0.329)	60232	2.00000	2.29564
13 1,2-dichloro-1,1,2-trifluoroet	117	1.375	1.375 (0.335)	92677	2.00000	2.34784
14 2,2-dichloro-1,1,1-trifluoroet	83	1.411	1.411 (0.343)	146315	2.00000	2.31802
16 Trichlorotrifluoroethane	151	1.458	1.458 (0.355)	63098	2.00000	2.31398
21 Carbon Disulfide	76	1.564	1.564 (0.381)	377122	2.00000	2.24507
24 Methyl Acetate	43	1.693	1.693 (0.412)	150429	10.0000	10.9818

Compounds	QUANT SIG						AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE		CAL-AMT	ON-COL
							( ug/L)	( ug/L)
23 Allyl Chloride	41	1.669	1.669	(0.406)	222912		2.00000	2.13134
22 2-Propanol	45	1.599	1.599	(0.389)	38081		40.0000	44.4211
28 Methyl t-butyl ether	73	1.893	1.893	(0.461)	125413		2.00000	2.18571(a)
31 Hexane	57	2.034	2.034	(0.269)	289448		2.00000	2.23142
35 Vinyl acetate	43	2.257	2.257	(0.549)	133717		4.00000	4.45497
36 ETBE	59	2.542	2.542	(0.619)	1353075		10.0000	10.6168
40 Ethyl Acetate	43	2.820	2.820	(0.687)	65083		4.00000	4.49730
43 Tetrahydrofuran	42	2.983	2.983	(0.726)	18632		4.00000	4.62416(a)
46 Cyclohexane	56	3.158	3.158	(0.769)	279593		2.00000	2.21951
55 TAME	73	3.853	3.853	(0.938)	672160		10.0000	10.6221
61 2-Pentanone	43	5.008	5.008	(0.662)	85792		8.00000	8.39131
58 Methyl Cyclohexane	55	4.742	4.742	(1.154)	241232		2.00000	2.23573
64 Methyl Methacrylate	100	5.201	5.201	(1.266)	13753		4.00000	4.03433
66 2-nitropropane	41	5.703	5.703	(0.754)	4402		2.00000	1.81346(a)
67 2-Chloroethyl vinyl ether	63	5.769	5.769	(0.763)	3277		2.00000	2.65885
73 Ethyl methacrylate	69	6.633	6.633	(0.877)	76277		4.00000	3.95492
77 Tetrahydrothiophene	60	6.947	6.947	(0.918)	13297		2.00000	1.85400
92 cis-1,4-dichloro-2-butene	53	8.682	8.682	(0.893)	6343		2.00000	1.95939
98 t-1,4-Dichloro-2-butene	53	8.960	8.960	(0.922)	7246		2.00000	2.12833
109 1,2,3-Trimethylbenzene	105	9.788	9.788	(1.007)	250573		2.00000	2.13335

QC Flag Legend

a - Target compound detected but, quantitated amount  
Below Limit Of Quantitation(BLOQ).

Report Date: 10-May-2004 21:31

STL Denver

INTERNAL STANDARD COMPOUNDS  
AREA AND RT SUMMARY

Instrument ID: C.i  
Lab File ID: c0454.d  
Lab Smp Id: SUPP002  
Analysis Type: VOA  
Quant Type: ISTD  
Operator: reinharj  
Method File: /chem/C.i/051004.b/C-20ml-AQ.m  
Misc Info:

Calibration Date: 05/10/4  
Calibration Time: 1823  
Client Smp ID: SUPP002  
Level: LOW  
Sample Type: WATER

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
56 Fluorobenzene	1685615	842808	3371230	1498155	-11.12
81 Chlorobenzene-d5	278883	139442	557766	244757	-12.24
107 1,4-Dichlorobenze	321860	160930	643720	280811	-12.75

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
56 Fluorobenzene	4.11	3.61	4.61	4.11	0.01
81 Chlorobenzene-d5	7.56	7.06	8.06	7.56	0.00
107 1,4-Dichlorobenze	9.72	9.22	10.22	9.72	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/C.i/051004.b/c0454.d

Date : 10-MAY-2004 19:07

Client ID: SUPP002

Sample Info: SUPP002

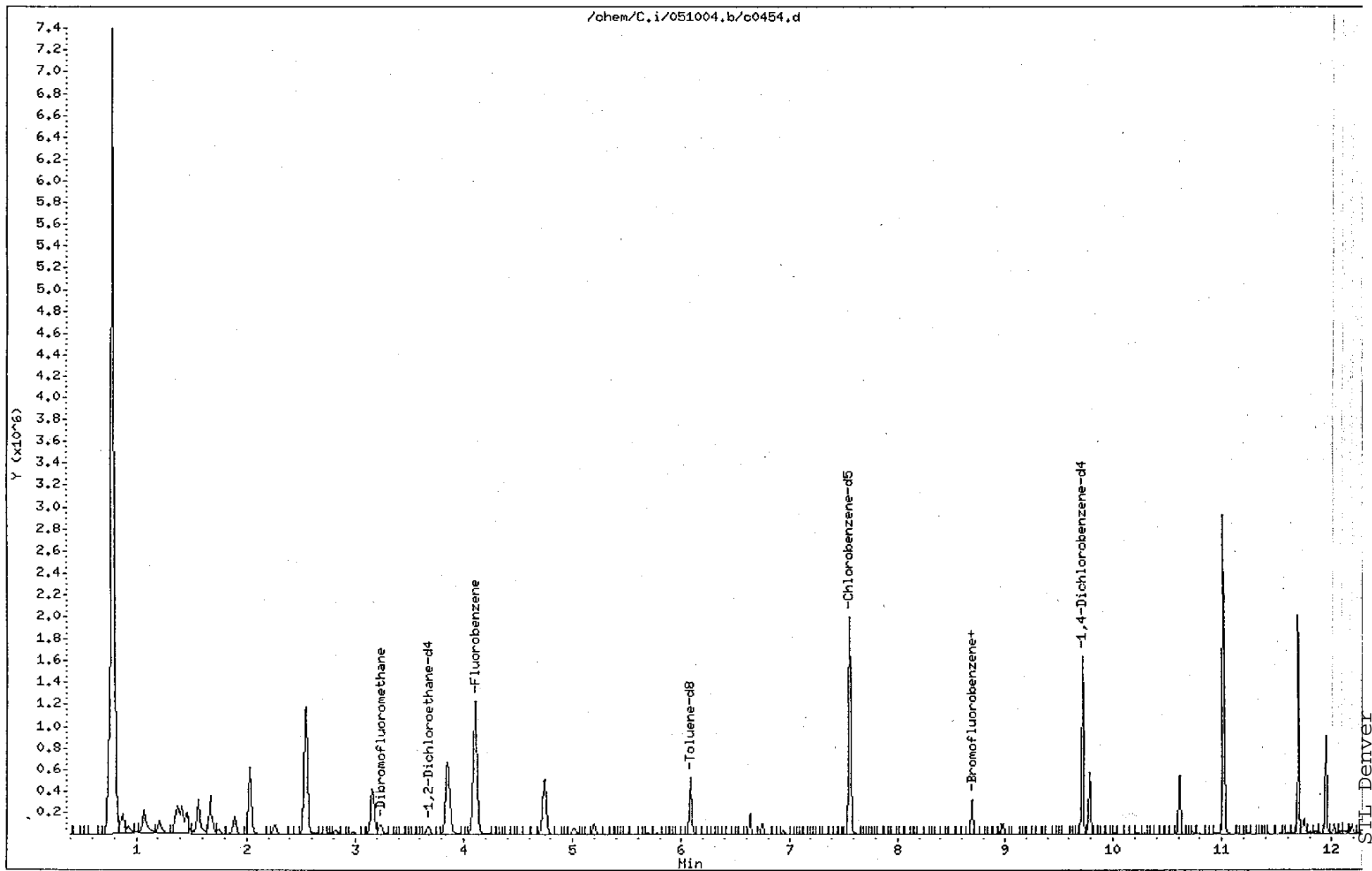
Purge Volume: 20.0

Column phase: DB624

Instrument: C.i

Operator: reinharj

Column diameter: 0,53



STL Denver

VOLATILE REPORT SW-846

Data file : /chem/C.i/051004.b/c0455.d  
Lab Smp Id: SUPP005 Client Smp ID: SUPP005  
Inj Date : 10-MAY-2004 19:29  
Operator : reinharj Inst ID: C.i  
Smp Info : SUPP005  
Misc Info :  
Comment : Purge and Trap Analysis  
Method : /chem/C.i/051004.b/C-20ml-AQ.m  
Meth Date : 10-May-2004 21:31 reinharj Quant Type: ISTD  
Cal Date : 10-MAY-2004 20:33 Cal File: c0458.d  
Als bottle: 2 Calibration Sample, Level: 3  
Dil Factor: 1.00000  
Integrator: Falcon Compound Sublist: 2-supp.sub  
Target Version: 3.40  
Processing Host: chemsv02

Concentration Formula: Amt \* DF \* Vp/Vs

Name	Value	Description
DF	1.000	Dilution Factor
Vp	20.000	Final Purge Volume (ml)
Vs	20.000	Sample Volume (ml)

Compounds	QUANT SIG				AMOUNTS		
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT ( ug/L)	ON-COL ( ug/L)
* 56 Fluorobenzene	96	4.107	4.107	(1.000)	1542527	10.0000	
* 81 Chlorobenzene-d5	119	7.563	7.563	(1.000)	257013	10.0000	
* 107 1,4-Dichlorobenzene-d4	152	9.721	9.721	(1.000)	295496	10.0000	
\$ 48 Dibromofluoromethane	111	3.237	3.237	(0.788)	160863	5.00000	4.91776
\$ 52 1,2-Dichloroethane-d4	65	3.678	3.678	(0.896)	172175	5.00000	4.92075
\$ 69 Toluene-d8	98	6.083	6.083	(0.804)	711052	5.00000	4.84661
\$ 93 Bromofluorobenzene	95	8.693	8.693	(1.149)	214402	5.00000	4.84738
2 Dichlorotetrafluoroethane	85	0.882	0.882	(0.215)	171261	5.00000	4.90028
5 Ethylene Oxide	43	1.070	1.070	(0.261)	232701	775.000	674.525
8 Dichlorofluoromethane	67	1.211	1.211	(0.295)	292175	5.00000	4.90838
11 Ethyl Ether	59	1.352	1.352	(0.329)	140037	5.00000	5.18374
13 1,2-dichloro-1,1,2-trifluoroet	117	1.375	1.375	(0.335)	204924	5.00000	5.65564
14 2,2-dichloro-1,1,1-trifluoroet	83	1.411	1.411	(0.343)	320967	5.00000	4.93871
16 Trichlorotrifluoroethane	151	1.458	1.458	(0.355)	139228	5.00000	4.95900
21 Carbon Disulfide	76	1.563	1.563	(0.381)	841050	5.00000	4.86289
24 Methyl Acetate	43	1.693	1.693	(0.412)	337899	25.0000	23.9580

Report Date: 10-May-2004 21:31

Compounds	QUANT SIG						AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE		CAL-AMT	ON-COL
-----	----	--	-----	-----	-----		( ug/L)	( ug/L)
23 Allyl Chloride	41	1.669	1.669	(0.406)	525101		5.00000	4.87625
22 2-Propanol	45	1.599	1.599	(0.389)	84453		100.000	95.6798
28 Methyl t-butyl ether	73	1.892	1.892	(0.461)	291163		5.00000	4.92844(a)
31 Hexane	57	2.034	2.034	(0.269)	656596		5.00000	4.82048
35 Vinyl acetate	43	2.257	2.257	(0.550)	314299		10.0000	10.1701(M)
36 ETBE	59	2.542	2.542	(0.619)	3163905		25.0000	24.1112
40 Ethyl Acetate	43	2.820	2.820	(0.687)	142703		10.0000	9.57726
43 Tetrahydrofuran	42	2.977	2.977	(0.725)	40248		10.0000	9.70157
46 Cyclohexane	56	3.158	3.158	(0.769)	625295		5.00000	4.82103
55 TAME	73	3.847	3.847	(0.937)	1575131		25.0000	24.1758
61 2-Pentanone	43	5.007	5.007	(0.662)	206182		20.0000	19.2050
58 Methyl Cyclohexane	55	4.741	4.741	(1.155)	540406		5.00000	4.86439
64 Methyl Methacrylate	100	5.201	5.201	(1.266)	34320		10.0000	9.77788
66 2-nitropropane	41	5.696	5.696	(0.753)	12038		5.00000	4.72272
67 2-Chloroethyl vinyl ether	63	5.769	5.769	(0.763)	9350		5.00000	4.37528
73 Ethyl methacrylate	69	6.633	6.633	(0.877)	196601		10.0000	9.70755
77 Tetrahydrothiophene	60	6.947	6.947	(0.918)	35693		5.00000	4.73935
92 cis-1,4-dichloro-2-butene	53	8.681	8.681	(0.893)	15095		5.00000	4.43120
98 t-1,4-Dichloro-2-butene	53	8.959	8.959	(0.922)	16354		5.00000	4.56485
109 1,2,3-Trimethylbenzene	105	9.787	9.787	(1.007)	584973		5.00000	4.73288

## QC Flag Legend

a - Target compound detected but, quantitated amount  
Below Limit Of Quantitation(BLOQ).

M - Compound response manually integrated.

STL Denver

INTERNAL STANDARD COMPOUNDS  
AREA AND RT SUMMARY

Instrument ID: C.i  
Lab File ID: c0455.d  
Lab Smp Id: SUPP005  
Analysis Type: VOA  
Quant Type: ISTD  
Operator: reinharj  
Method File: /chem/C.i/051004.b/C-20ml-AQ.m  
Misc Info:

Calibration Date: 05/10/4  
Calibration Time: 1823  
Client Smp ID: SUPP005  
Level: LOW  
Sample Type: WATER

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
=====	=====	=====	=====	=====	=====
56 Fluorobenzene	1685615	842808	3371230	1542527	-8.49
81 Chlorobenzene-d5	278883	139442	557766	257013	-7.84
107 1,4-Dichlorobenze	321860	160930	643720	295496	-8.19

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
=====	=====	=====	=====	=====	=====
56 Fluorobenzene	4.11	3.61	4.61	4.11	0.00
81 Chlorobenzene-d5	7.56	7.06	8.06	7.56	0.00
107 1,4-Dichlorobenze	9.72	9.22	10.22	9.72	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/C.i/051004.b/c0455.d

Date : 10-MAY-2004 19:29

Client ID: SUPP005

Sample Info: SUPP005

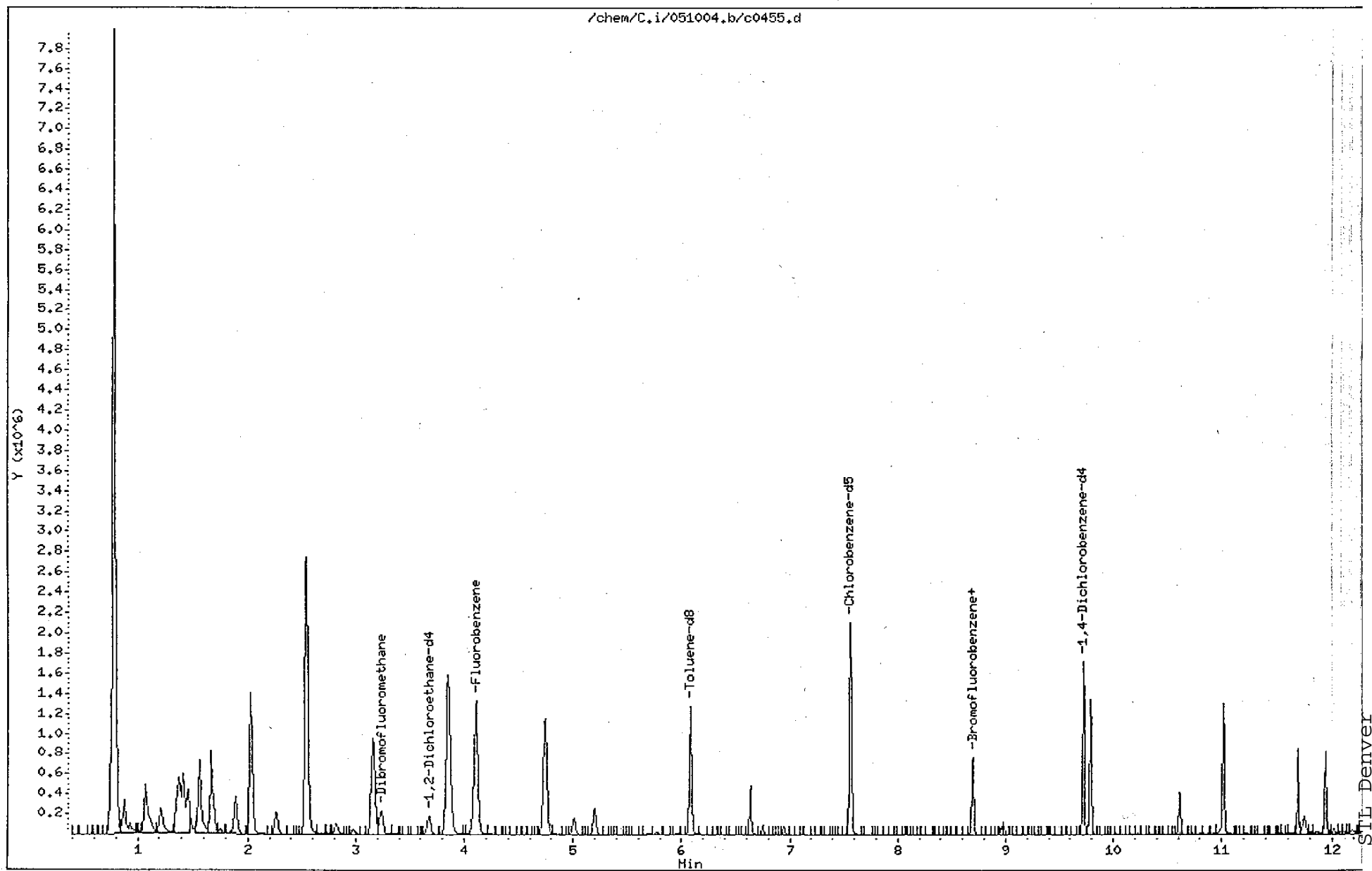
Purge Volume: 20.0

Column phase: DB624

Instrument: C.i

Operator: reinharj

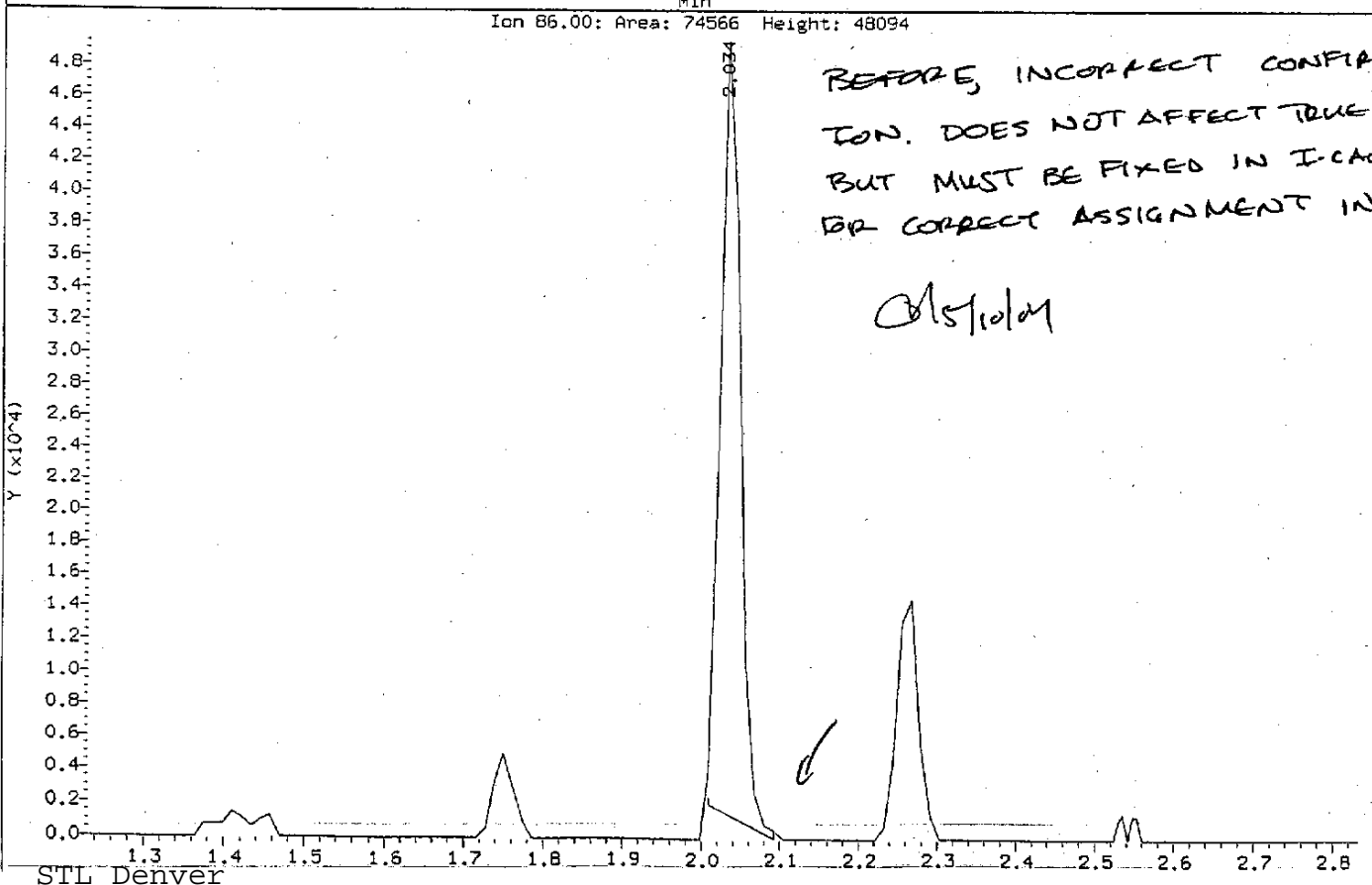
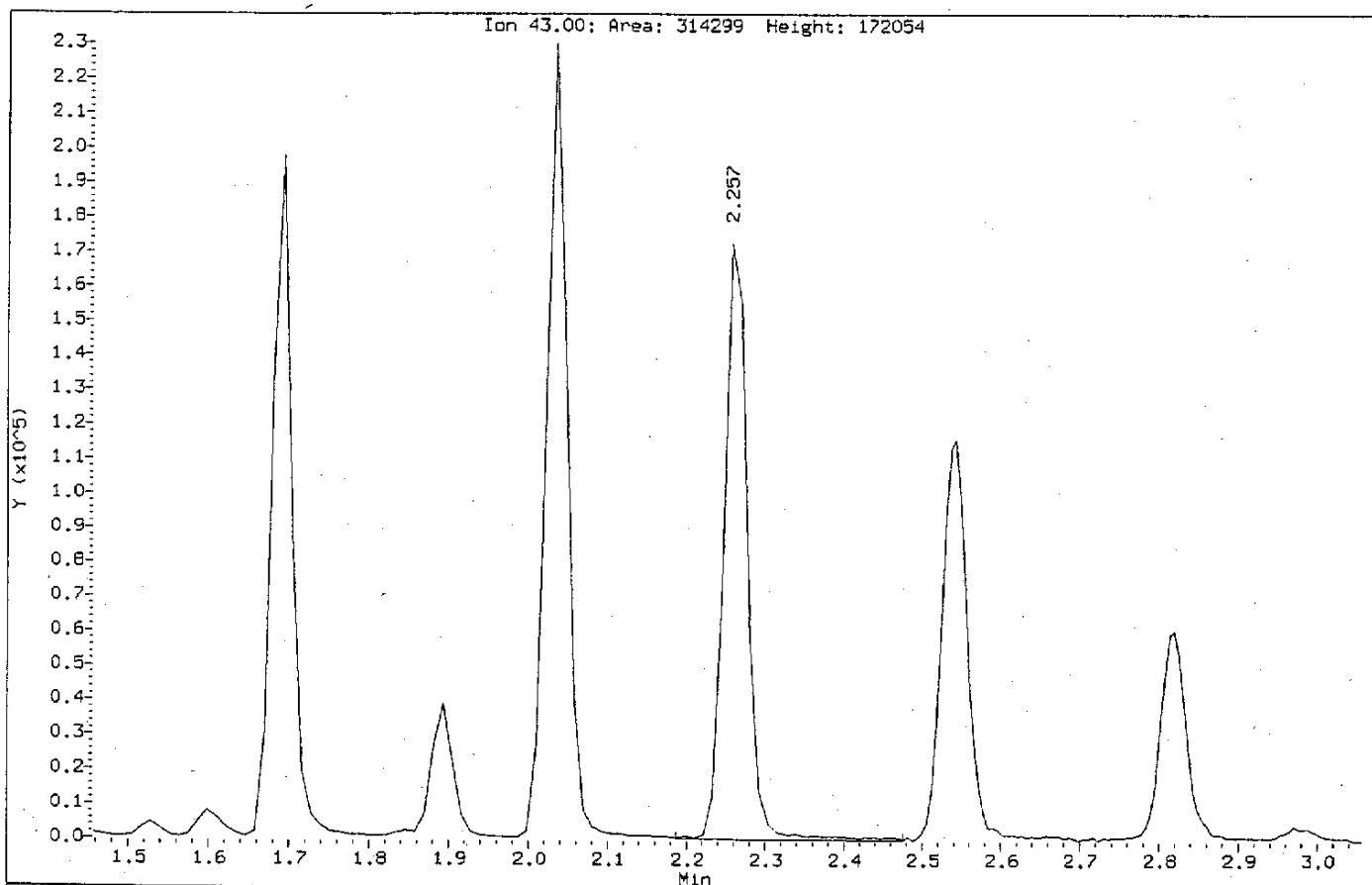
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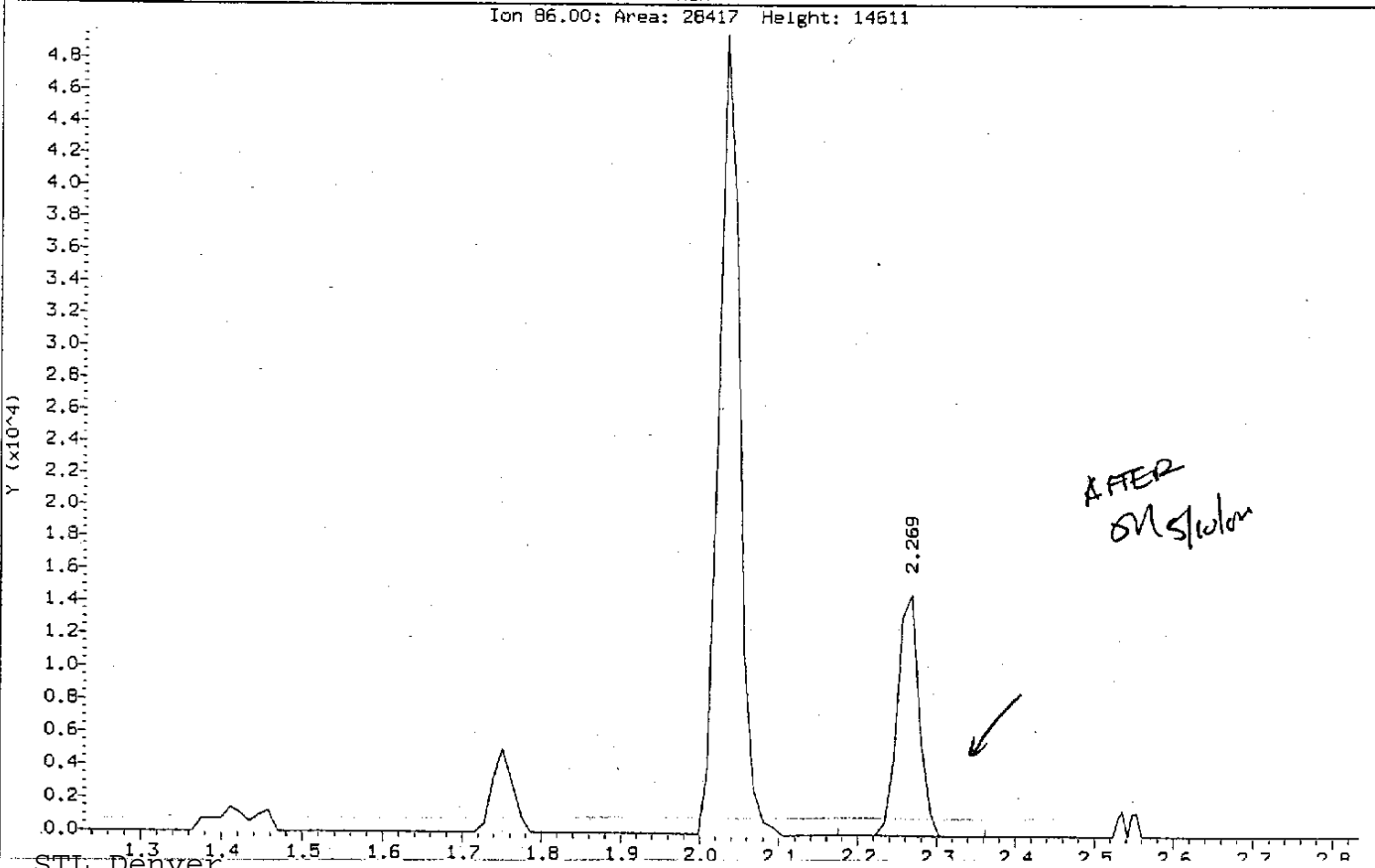
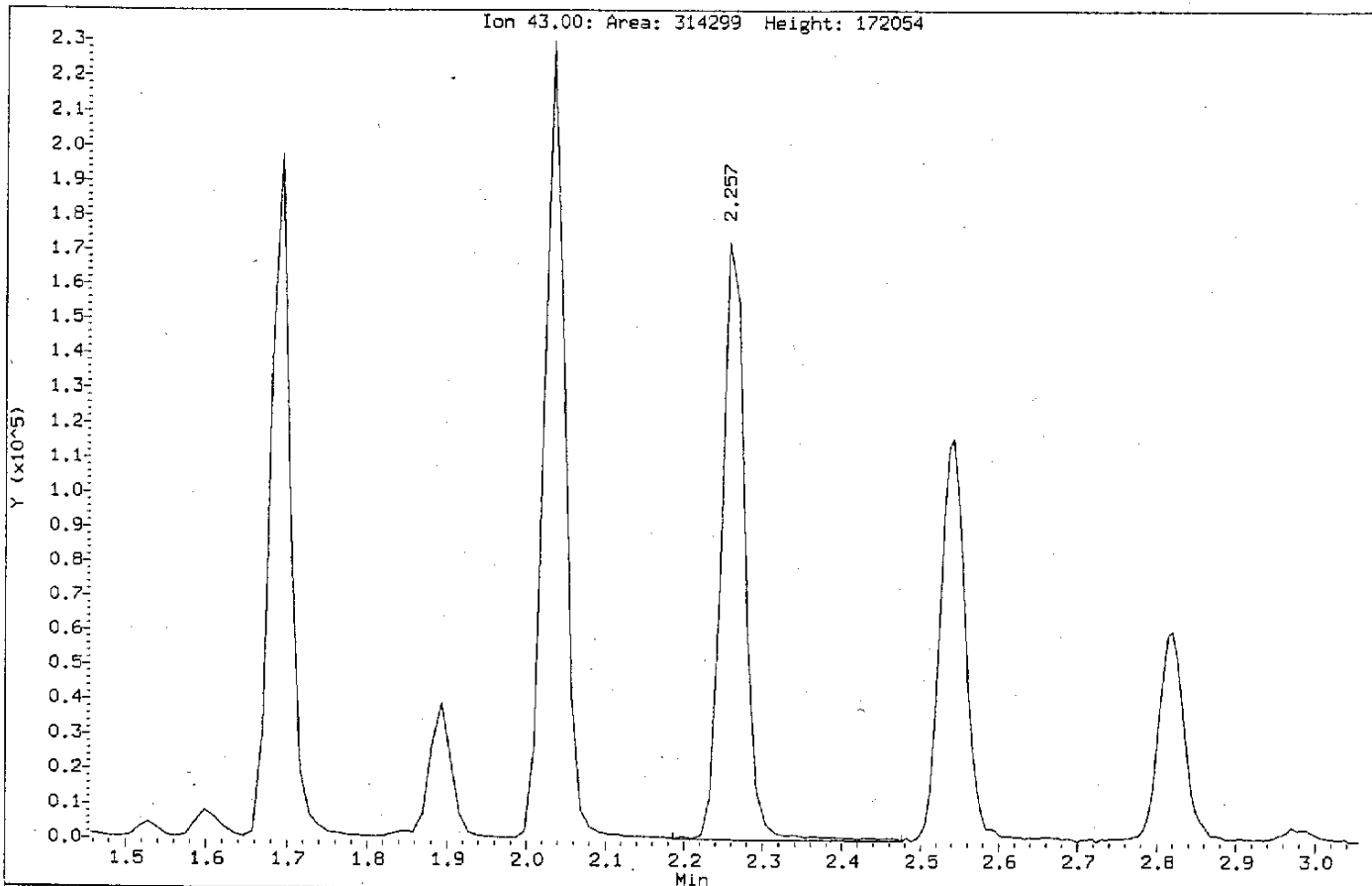
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Injection Date: 10-MAY-2004 19:29  
Instrument: C.i  
Client Sample ID: SUPP005

Compound: Vinyl acetate  
CAS Number: 108-05-4



Data File: /chem/C.1/051004.b/c0455.d  
Injection Date: 10-MAY-2004 19:29  
Instrument: C.1  
Client Sample ID: SUPP005

Compound: Vinyl acetate  
CAS Number: 108-05-4



STL Denver

VOLATILE REPORT SW-846

Data file : /chem/C.i/051004.b/c0456.d  
Lab Smp Id: SUPP010 Client Smp ID: SUPP010  
Inj Date : 10-MAY-2004 19:50  
Operator : reinharj Inst ID: C.i  
Smp Info : SUPP010  
Misc Info :  
Comment : Purge and Trap Analysis  
Method : /chem/C.i/051004.b/C-20ml-AQ.m  
Meth Date : 10-May-2004 21:31 reinharj Quant Type: ISTD  
Cal Date : 10-MAY-2004 20:33 Cal File: c0458.d  
Als bottle: 2 Calibration Sample, Level: 4  
Dil Factor: 1.00000  
Integrator: Falcon Compound Sublist: 2-suppl.sub  
Target Version: 3.40  
Processing Host: chemsv02

Concentration Formula: Amt \* DF \* Vp/Vs

Name	Value	Description
DF	1.000	Dilution Factor
Vp	20.000	Final Purge Volume (ml)
Vs	20.000	Sample Volume (ml)

Compounds	QUANT SIG				RESPONSE	AMOUNTS	
	MASS	RT	EXP RT	REL RT		CAL-AMT ( ug/L)	ON-COL ( ug/L)
* 56 Fluorobenzene	96	4.101	4.101	(1.000)	1571830	10.0000	
* 81 Chlorobenzene-d5	119	7.563	7.563	(1.000)	261684	10.0000	
* 107 1,4-Dichlorobenzene-d4	152	9.720	9.720	(1.000)	297440	10.0000	
\$ 48 Dibromofluoromethane	111	3.230	3.230	(0.788)	316732	10.0000	9.50233
\$ 52 1,2-Dichloroethane-d4	65	3.678	3.678	(0.897)	342809	10.0000	9.61481
\$ 69 Toluene-d8	98	6.083	6.083	(0.804)	1392278	10.0000	9.32052
\$ 93 Bromofluorobenzene	95	8.693	8.693	(1.149)	412945	10.0000	9.16956
2 Dichlorotetrafluoroethane	85	0.881	0.881	(0.215)	320783	10.0000	9.00743
5 Ethylene Oxide	43	1.069	1.069	(0.261)	424014	1250.00	1326.23 (M)
8 Dichlorofluoromethane	67	1.210	1.210	(0.295)	566525	10.0000	9.33989
11 Ethyl Ether	59	1.351	1.351	(0.330)	227175	10.0000	8.25254
13 1,2-dichloro-1,1,2-trifluoroet	117	1.387	1.387	(0.338)	313619	10.0000	8.76245
14 2,2-dichloro-1,1,1-trifluoroet	83	1.410	1.410	(0.344)	606976	10.0000	9.16540
16 Trichlorotrifluoroethane	151	1.457	1.457	(0.355)	265307	10.0000	9.27350
21 Carbon Disulfide	76	1.563	1.563	(0.381)	1604014	10.0000	9.10139
24 Methyl Acetate	43	1.692	1.692	(0.413)	671858	50.0000	46.7486

Compounds	QUANT SIG						AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE		CAL-AMT	ON-COL
							( ug/L)	( ug/L)
23 Allyl Chloride	41	1.669	1.669	(0.407)	1022403		10.0000	9.31736
22 2-Propanol	45	1.598	1.598	(0.390)	168428		200.000	187.261
28 Methyl t-butyl ether	73	1.892	1.892	(0.461)	567641		10.0000	9.42919
31 Hexane	57	2.033	2.033	(0.269)	1264895		10.0000	9.12061
35 Vinyl acetate	43	2.256	2.256	(0.550)	615562		20.0000	19.5470
36 ETBE	59	2.541	2.541	(0.620)	6341076		50.0000	47.4226
40 Ethyl Acetate	43	2.813	2.813	(0.686)	273790		20.0000	18.0324
43 Tetrahydrofuran	42	2.970	2.970	(0.724)	81238		20.0000	19.2169
46 Cyclohexane	56	3.158	3.158	(0.770)	1219004		10.0000	9.22332
55 TAME	73	3.847	3.847	(0.938)	3172249		50.0000	47.7813
61 2-Pentanone	43	5.001	5.001	(0.661)	421368		40.0000	38.5480
58 Methyl Cyclohexane	55	4.741	4.741	(1.156)	1045506		10.0000	9.23553
64 Methyl Methacrylate	100	5.194	5.194	(1.267)	70673		20.0000	19.7596
66 2-nitropropane	41	5.696	5.696	(0.753)	24460		10.0000	9.42481
67 2-Chloroethyl vinyl ether	63	5.762	5.762	(0.762)	24413		10.0000	8.51783
73 Ethyl methacrylate	69	6.632	6.632	(0.877)	407266		20.0000	19.7506
77 Tetrahydrothiophene	60	6.947	6.947	(0.918)	74836		10.0000	9.75942
92 cis-1,4-dichloro-2-butene	53	8.681	8.681	(0.893)	31770		10.0000	9.26527
98 t-1,4-Dichloro-2-butene	53	8.959	8.959	(0.922)	31917		10.0000	8.85069
109 1,2,3-Trimethylbenzene	105	9.787	9.787	(1.007)	1145105		10.0000	9.20422

QC Flag Legend

M - Compound response manually integrated.

STL Denver

INTERNAL STANDARD COMPOUNDS  
AREA AND RT SUMMARY

Instrument ID: C.i  
Lab File ID: c0456.d  
Lab Smp Id: SUPP010  
Analysis Type: VOA  
Quant Type: ISTD  
Operator: reinharj  
Method File: /chem/C.i/051004.b/C-20ml-AQ.m  
Misc Info:

Calibration Date: 05/10/4  
Calibration Time: 1950  
Client Smp ID: SUPP010  
Level: LOW  
Sample Type: WATER

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
=====	=====	=====	=====	=====	=====
56 Fluorobenzene	1571830	785915	3143660	1571830	0.00
81 Chlorobenzene-d5	261684	130842	523368	261684	0.00
107 1,4-Dichlorobenze	297440	148720	594880	297440	0.00

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
=====	=====	=====	=====	=====	=====
56 Fluorobenzene	4.10	3.60	4.60	4.10	0.00
81 Chlorobenzene-d5	7.56	7.06	8.06	7.56	0.00
107 1,4-Dichlorobenze	9.72	9.22	10.22	9.72	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/C.i/051004.b/c0456.d

Page 4

Date : 10-MAY-2004 19:50

Client ID: SUPP010

Instrument: C.i

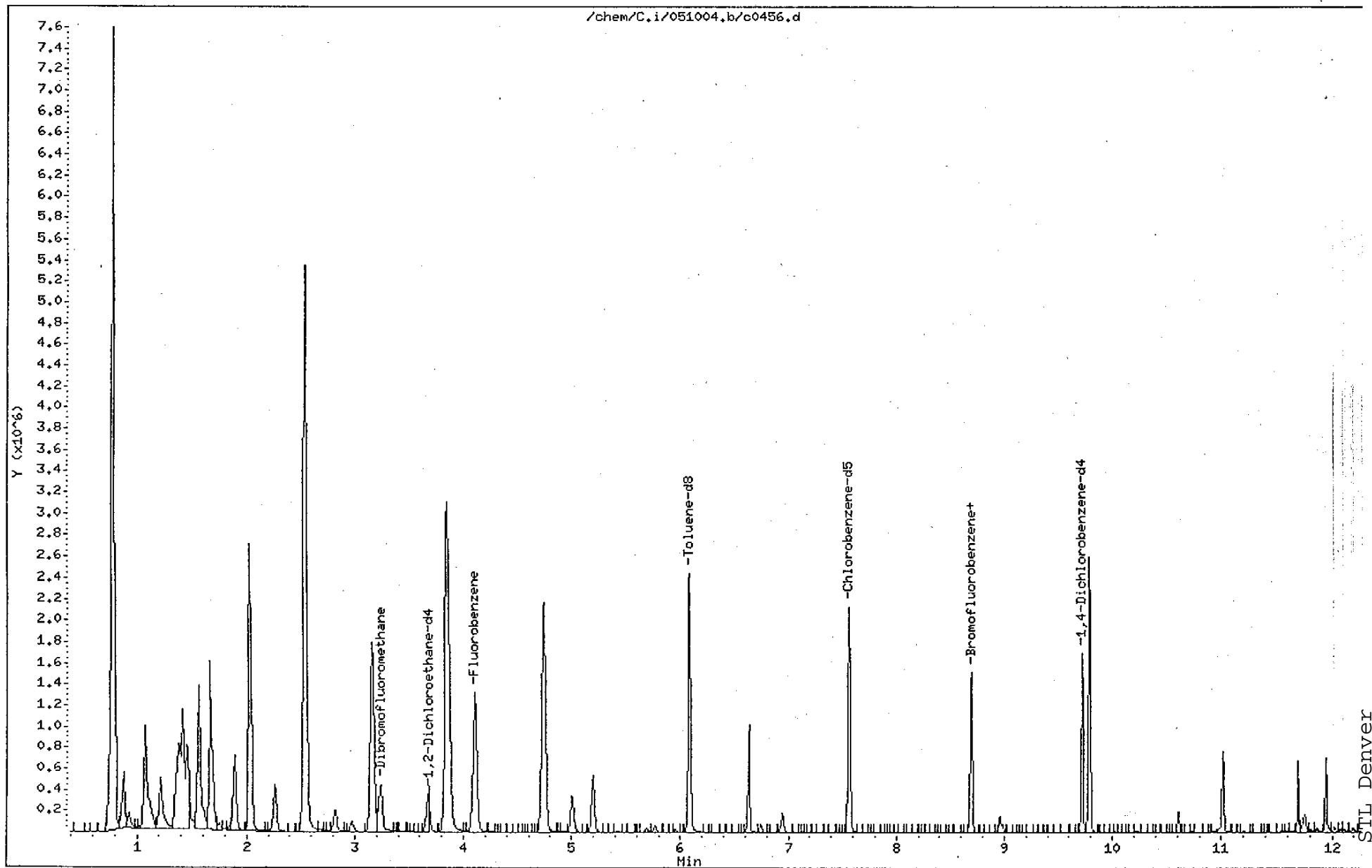
Sample Info: SUPP010

Purge Volume: 20.0

Operator: reinharj

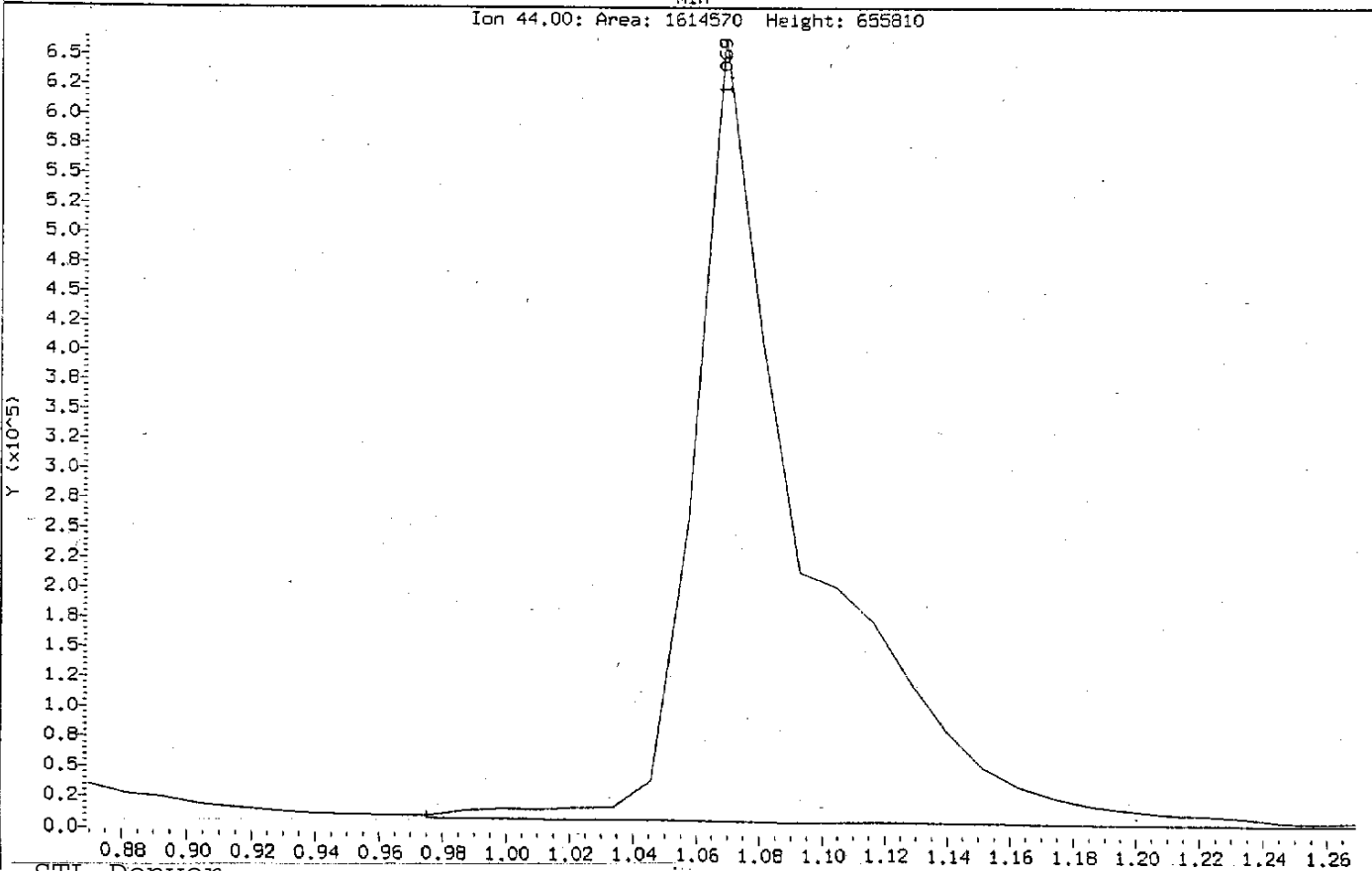
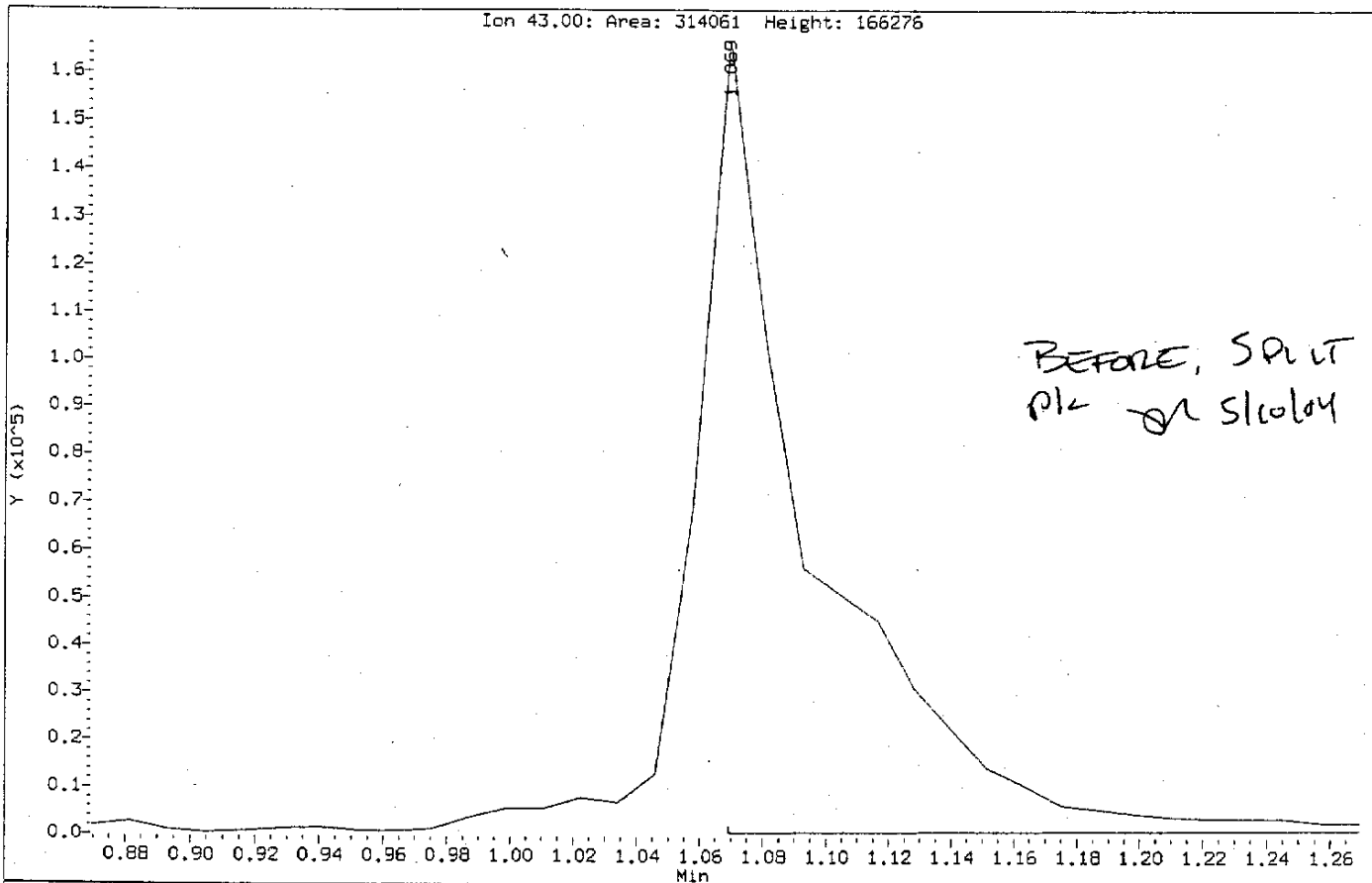
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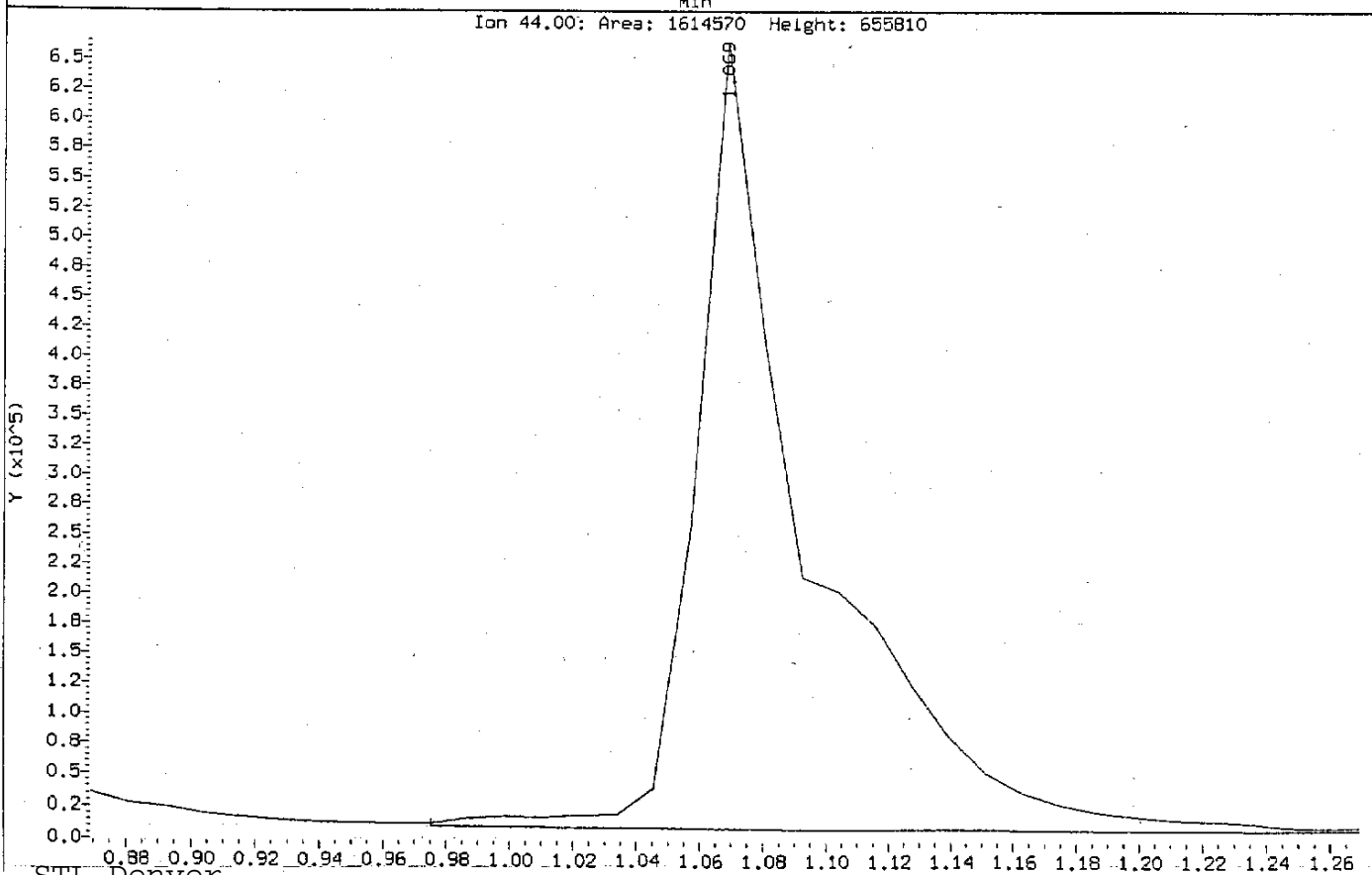
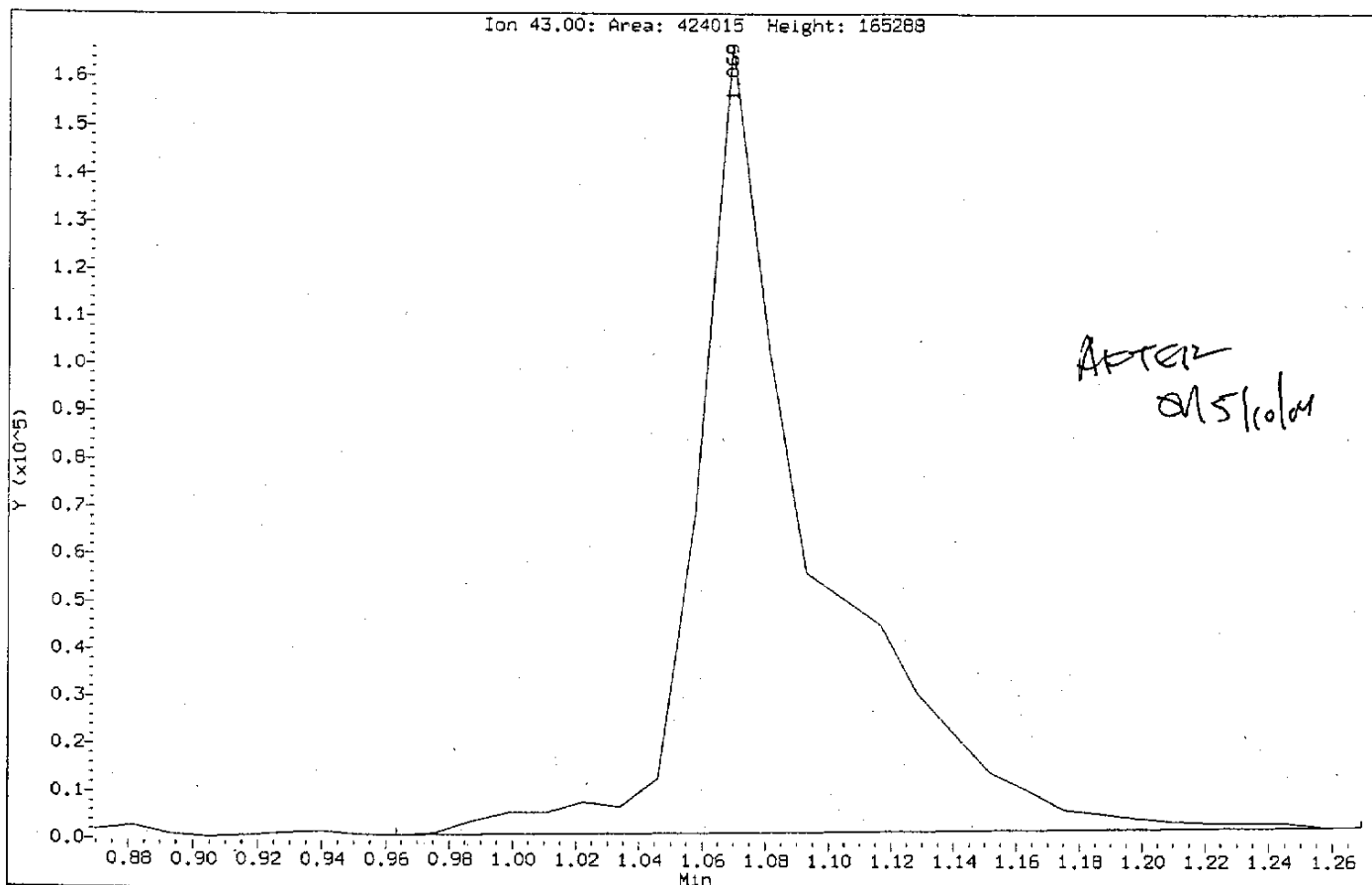
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Injection Date: 10-MAY-2004 19:50  
Instrument: C.i  
Client Sample ID: SUPP010

Compound: Ethylene Oxide  
CAS Number: 75-21-98



Data File: /chem/C.1/051004.b/c0456.d  
Injection Date: 10-MAY-2004 19:50  
Instrument: C.i  
Client Sample ID: SUPP010

Compound: Ethylene Oxide  
CAS Number: 75-21-98





STL Denver

VOLATILE REPORT SW-846

Data file : /chem/C.i/051004.b/c0457.d  
Lab Smp Id: SUPP030 Client Smp ID: SUPP030  
Inj Date : 10-MAY-2004 20:11  
Operator : reinharj Inst ID: C.i  
Smp Info : SUPP030  
Misc Info :  
Comment : Purge and Trap Analysis  
Method : /chem/C.i/051004.b/C-20ml-AQ.m  
Meth Date : 10-May-2004 21:31 reinharj Quant Type: ISTD  
Cal Date : 10-MAY-2004 20:33 Cal File: c0458.d  
Als bottle: 2 Calibration Sample, Level: 5  
Dil Factor: 1.00000  
Integrator: Falcon Compound Sublist: 2-suppl.sub  
Target Version: 3.40  
Processing Host: chemsv02

Concentration Formula: Amt \* DF \* Vp/Vs

Name	Value	Description
DF	1.000	Dilution Factor
Vp	20.000	Final Purge Volume (ml)
Vs	20.000	Sample Volume (ml)

Compounds	QUANT SIG						AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE		CAL-AMT	ON-COL
							( ug/L)	( ug/L)
* 56 Fluorobenzene	96	4.102	4.102	(1.000)	1663040		10.0000	
* 81 Chlorobenzene-d5	119	7.564	7.564	(1.000)	277894		10.0000	
* 107 1,4-Dichlorobenzene-d4	152	9.722	9.722	(1.000)	319080		10.0000	
\$ 48 Dibromofluoromethane	111	3.237	3.237	(0.789)	682832		20.0000	19.3622
\$ 52 1,2-Dichloroethane-d4	65	3.679	3.679	(0.897)	721708		20.0000	19.1317
\$ 69 Toluene-d8	98	6.078	6.078	(0.803)	3033480		20.0000	19.1229
\$ 93 Bromofluorobenzene	95	8.694	8.694	(1.149)	914199		20.0000	19.1159
2 Dichlorotetrafluoroethane	85	0.873	0.873	(0.213)	984151		30.0000	26.1188
5 Ethylene Oxide	43	1.073	1.073	(0.262)	1292749		3750.00	4108.31(M)
8 Dichlorofluoromethane	67	1.214	1.214	(0.296)	1689982		30.0000	26.3334
11 Ethyl Ether	59	1.355	1.355	(0.330)	875285		30.0000	30.0524
13 1,2-dichloro-1,1,2-trifluoroet	117	1.378	1.378	(0.336)	1103775		30.0000	30.3916
14 2,2-dichloro-1,1,1-trifluoroet	83	1.413	1.413	(0.345)	1852843		30.0000	26.4437
16 Trichlorotrifluoroethane	151	1.460	1.460	(0.356)	806768		30.0000	26.6530
21 Carbon Disulfide	76	1.566	1.566	(0.382)	5128146		30.0000	27.5019
24 Methyl Acetate	43	1.684	1.684	(0.411)	2171095		150.000	142.782

Compounds	QUANT SIG						AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE		CAL-AMT	ON-COL
							( ug/L)	( ug/L)
23 Allyl Chloride	41	1.660	1.660	(0.405)	3300963		30.0000	28.4324
22 2-Propanol	45	1.602	1.602	(0.390)	527822		600.000	554.655
28 Methyl t-butyl ether	73	1.895	1.895	(0.462)	1835763		30.0000	28.8217
31 Hexane	57	2.036	2.036	(0.269)	4046421		30.0000	27.4750
35 Vinyl acetate	43	2.260	2.260	(0.551)	1742229		60.0000	52.2898
36 ETBE	59	2.536	2.536	(0.618)	20938410		150.000	148.003
40 Ethyl Acetate	43	2.814	2.814	(0.686)	899766		60.0000	56.0103
43 Tetrahydrofuran	42	2.972	2.972	(0.724)	260657		60.0000	58.2770
46 Cyclohexane	56	3.159	3.159	(0.770)	3874457		30.0000	27.7074
55 TAME	73	3.848	3.848	(0.938)	10571196		150.000	150.494
61 2-Pentanone	43	5.002	5.002	(0.661)	1451356		120.000	125.030
58 Methyl Cyclohexane	55	4.742	4.742	(1.156)	3349945		30.0000	27.9689
64 Methyl Methacrylate	100	5.195	5.195	(1.267)	240951		60.0000	63.6732
66 2-nitropropane	41	5.697	5.697	(0.753)	87603		30.0000	31.7858
67 2-Chloroethyl vinyl ether	63	5.769	5.769	(0.763)	122259		30.0000	30.4772
73 Ethyl methacrylate	69	6.634	6.634	(0.877)	1439363		60.0000	65.7310
77 Tetrahydrothiophene	60	6.948	6.948	(0.918)	273918		30.0000	33.6382
92 cis-1,4-dichloro-2-butene	53	8.682	8.682	(0.893)	114936		30.0000	31.2462
98 t-1,4-Dichloro-2-butene	53	8.960	8.960	(0.922)	120004		30.0000	31.0206
109 1,2,3-Trimethylbenzene	105	9.788	9.788	(1.007)	3956145		30.0000	29.6424

QC Flag Legend

M - Compound response manually integrated.

STL Denver

INTERNAL STANDARD COMPOUNDS  
AREA AND RT SUMMARY

Instrument ID: C.i  
Lab File ID: c0457.d  
Lab Smp Id: SUPP030  
Analysis Type: VOA  
Quant Type: ISTD  
Operator: reinharj  
Method File: /chem/C.i/051004.b/C-20ml-AQ.m  
Misc Info:

Calibration Date: 05/10/4  
Calibration Time: 1950  
Client Smp ID: SUPP030  
Level: LOW  
Sample Type: WATER

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
56 Fluorobenzene	1571830	785915	3143660	1663040	5.80
81 Chlorobenzene-d5	261684	130842	523368	277894	6.19
107 1,4-Dichlorobenze	297440	148720	594880	319080	7.28

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
56 Fluorobenzene	4.10	3.60	4.60	4.10	0.03
81 Chlorobenzene-d5	7.56	7.06	8.06	7.56	0.01
107 1,4-Dichlorobenze	9.72	9.22	10.22	9.72	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/C.i/051004.b/c0457.d

Date : 10-MAY-2004 20:11

Client ID: SUPP030

Sample Info: SUPP030

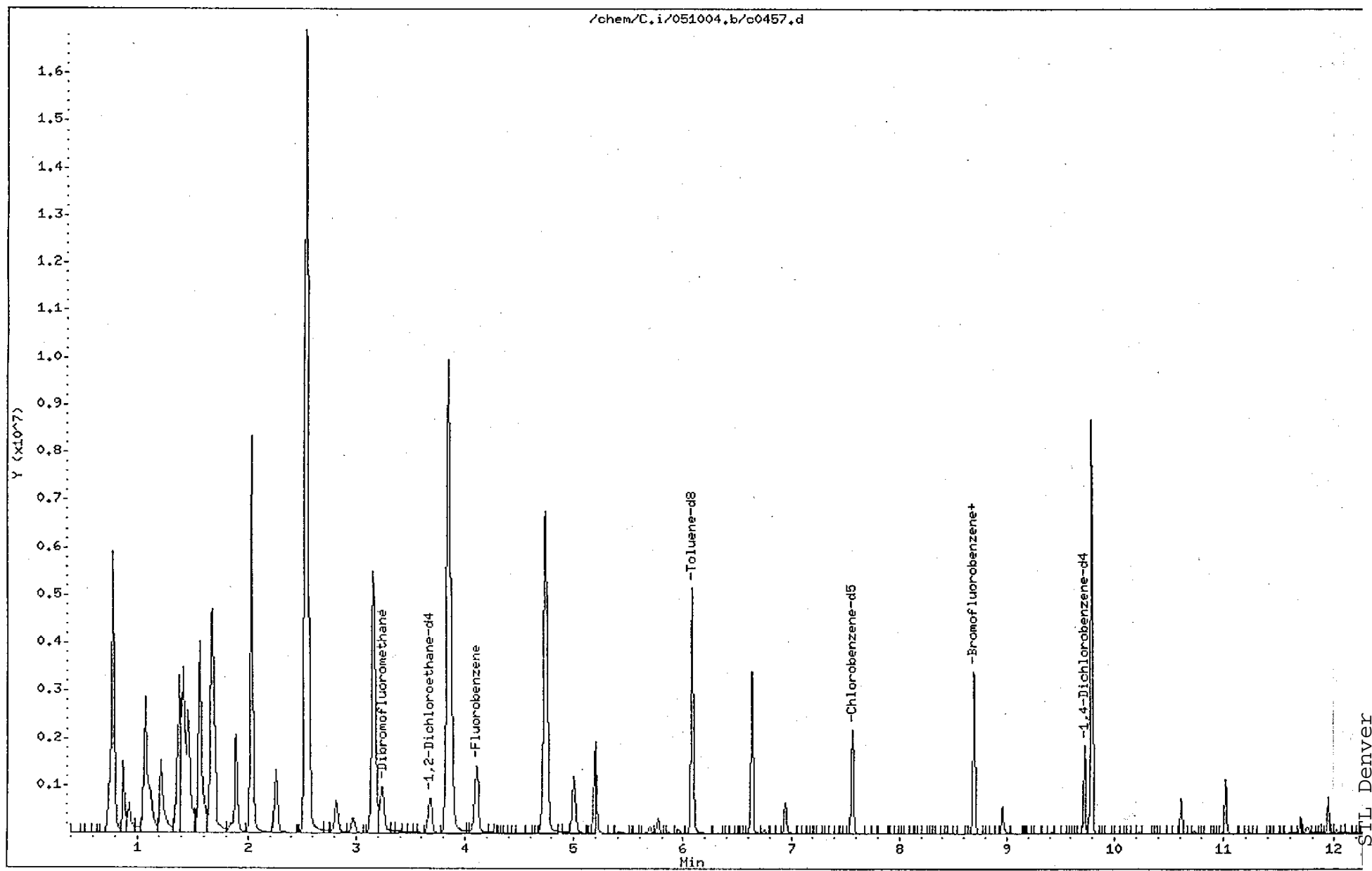
Purge Volume: 20.0

Column phase: DB624

Instrument: C.i

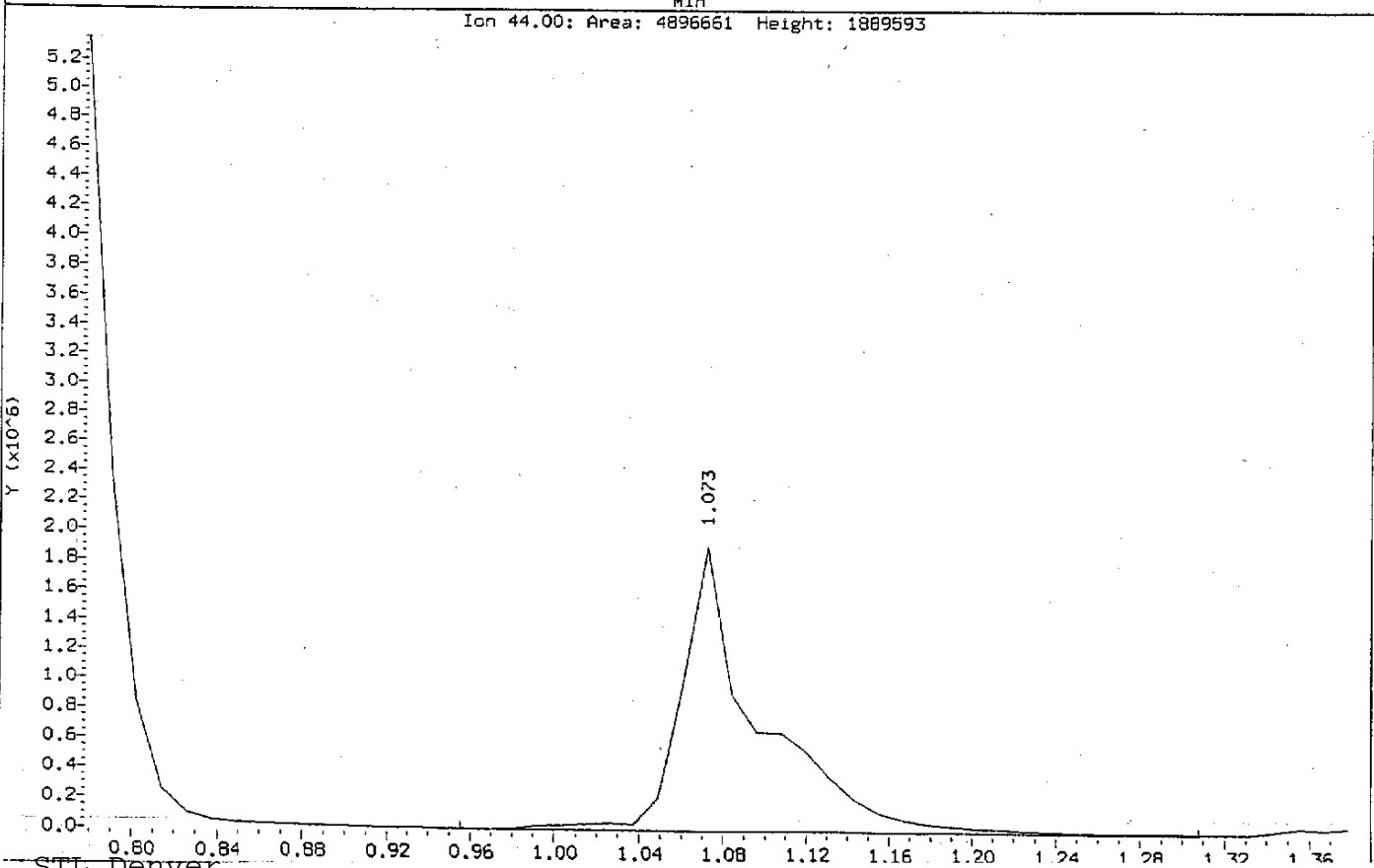
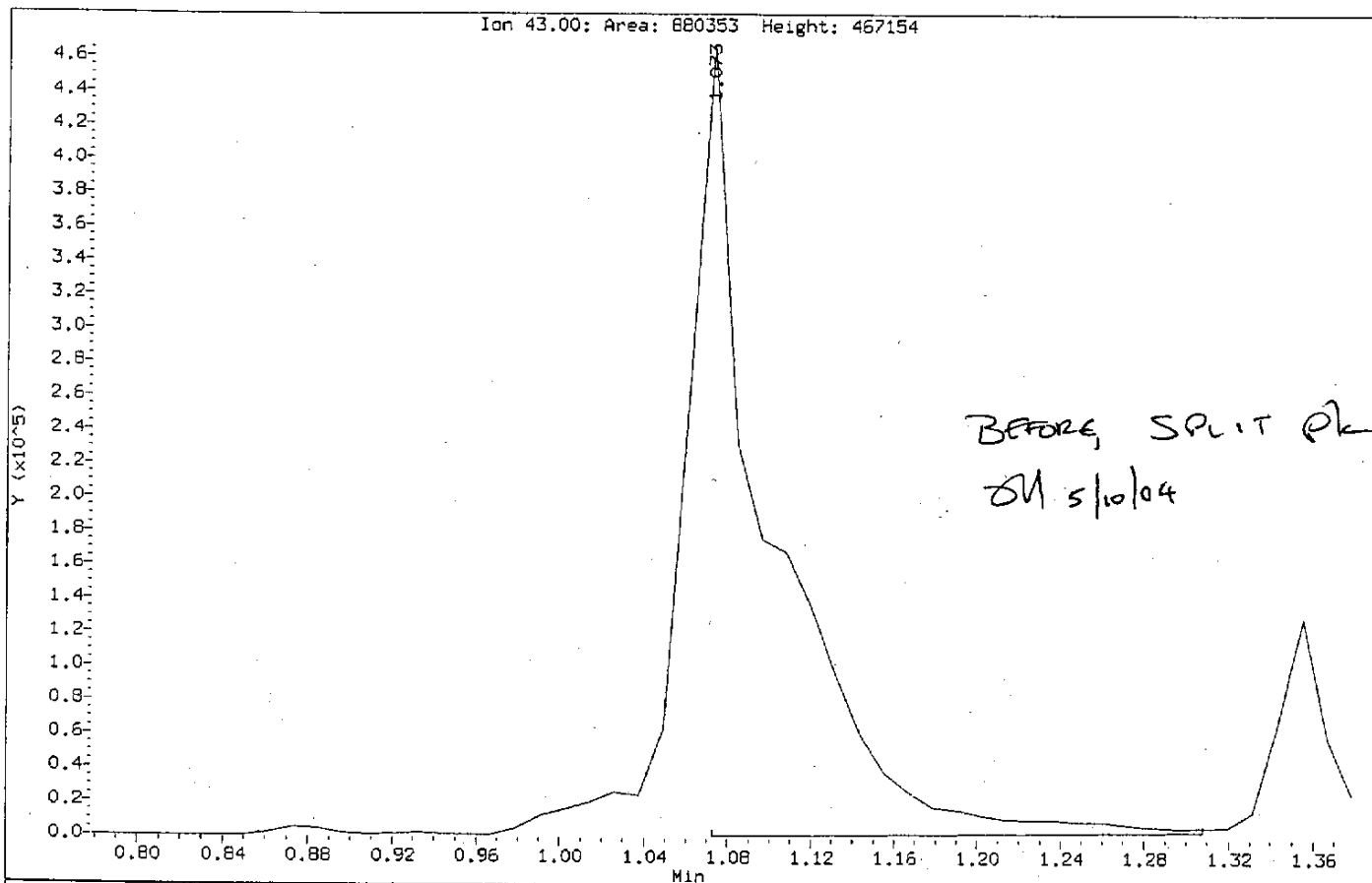
Operator: reinharj

Column diameter: 0.53



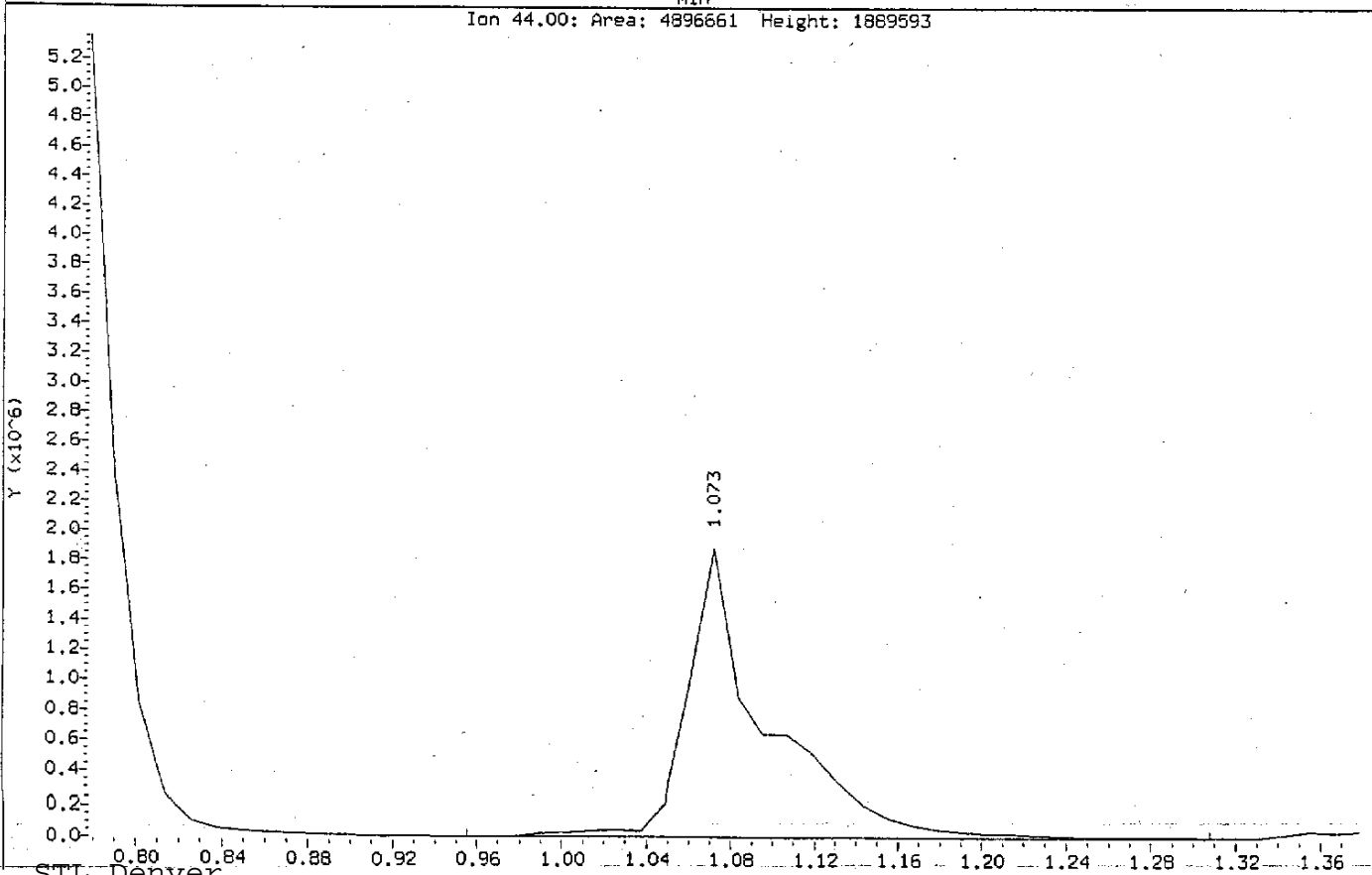
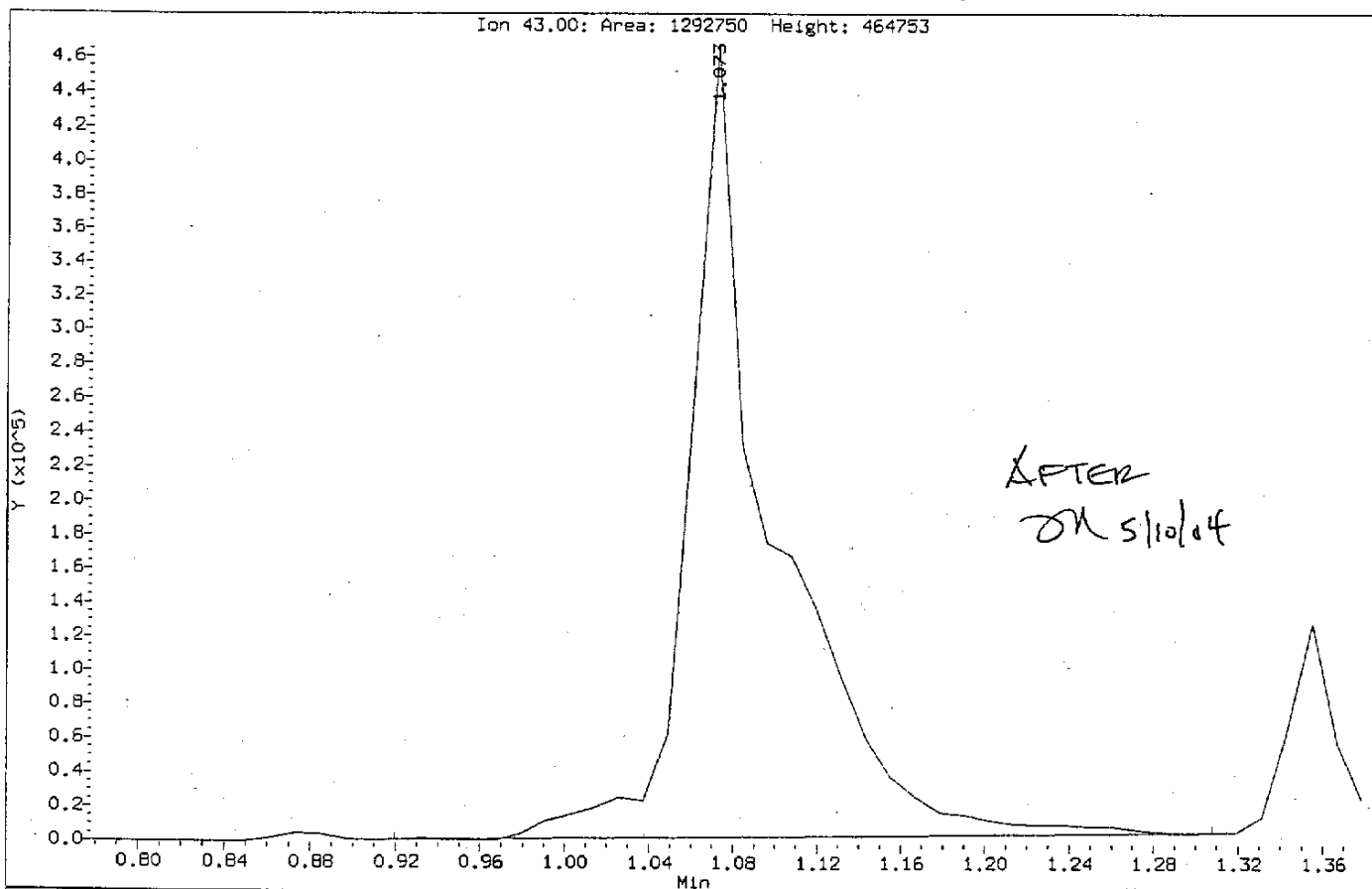
Data File: /chem/C.1/051004.b/c0457.d  
Injection Date: 10-MAY-2004 20:11  
Instrument: C.i  
Client Sample ID: SUPP030

Compound: Ethylene Oxide  
CAS Number: 75-21-98



Data File: /chem/C.1/051004.b/c0457.d  
Injection Date: 10-MAY-2004 20:11  
Instrument: C.i  
Client Sample ID: SUPP030

Compound: Ethylene Oxide  
CAS Number: 75-21-98



STL Denver

VOLATILE REPORT SW-846

Data file : /chem/C.i/051004.b/c0458.d  
 Lab Smp Id: SUPP060 Client Smp ID: SUPP060  
 Inj Date : 10-MAY-2004 20:33  
 Operator : reinharj Inst ID: C.i  
 Smp Info : SUPP060  
 Misc Info :  
 Comment : Purge and Trap Analysis  
 Method : /chem/C.i/051004.b/C-20ml-AQ.m  
 Meth Date : 10-May-2004 21:32 reinharj Quant Type: ISTD  
 Cal Date : 10-MAY-2004 20:33 Cal File: c0458.d  
 Als bottle: 2 Calibration Sample, Level: 6  
 Dil Factor: 1.00000  
 Integrator: Falcon Compound Sublist: 2-supp.sub  
 Target Version: 3.40  
 Processing Host: chemsv02

Concentration Formula: Amt \* DF \* Vp/Vs

Name	Value	Description
DF	1.000	Dilution Factor
Vp	20.000	Final Purge Volume (ml)
Vs	20.000	Sample Volume (ml)

Compounds	QUANT SIG						AMOUNTS	
		MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT ( ug/L)	ON-COL ( ug/L)
* 56 Fluorobenzene	96		4.102	4.102	(1.000)	1701578	10.0000	
* 81 Chlorobenzene-d5	119		7.559	7.559	(1.000)	284116	10.0000	
* 107 1,4-Dichlorobenzene-d4	152		9.722	9.722	(1.000)	327600	10.0000	
\$ 48 Dibromofluoromethane	111.00		Compound Not Detected.					
\$ 52 1,2-Dichloroethane-d4	65.00		Compound Not Detected.					
\$ 69 Toluene-d8	98.00		Compound Not Detected.					
\$ 93 Bromofluorobenzene	95.00		Compound Not Detected.					
2 Dichlorotetrafluoroethane	85		0.874	0.874	(0.213)	2079924	60.0000	53.9499
5 Ethylene Oxide	43		1.074	1.074	(0.262)	2312276	7500.00	7295.86 (M)
8 Dichlorofluoromethane	67		1.215	1.215	(0.296)	3438052	60.0000	52.3587
11 Ethyl Ether	59		1.356	1.356	(0.330)	1488147	60.0000	49.9375
13 1,2-dichloro-1,1,2-trifluoroet	117		1.379	1.379	(0.336)	2207212	60.0000	59.9078
14 2,2-dichloro-1,1,1-trifluoroet	83		1.415	1.415	(0.345)	3768559	60.0000	52.5665
16 Trichlorotrifluoroethane	151		1.450	1.450	(0.353)	1636195	60.0000	52.8304
21 Carbon Disulfide	76		1.556	1.556	(0.379)	10936377	60.0000	57.3227
24 Methyl Acetate	43		1.685	1.685	(0.411)	4419684	300.000	284.077

Compounds	QUANT SIG					AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT ( ug/L)	ON-COL ( ug/L)
-----	----	--	-----	-----	-----	-----	-----
23 Allyl Chloride	41	1.661	1.661	(0.405)	6982564	60.0000	58.7813
22 2-Propanol	45	1.603	1.603	(0.391)	1058794	1200.00	1087.42
28 Methyl t-butyl ether	73	1.885	1.885	(0.459)	3656152	60.0000	56.1020
31 Hexane	57	2.037	2.037	(0.270)	8731085	60.0000	57.9855
35 Vinyl acetate	43	2.261	2.261	(0.551)	4174354	120.000	122.448(A)
36 ETBE	59	2.549	2.549	(0.621)	30437874	300.000	210.276(H)
40 Ethyl Acetate	43	2.815	2.815	(0.686)	1800434	120.000	109.538
43 Tetrahydrofuran	42	2.966	2.966	(0.723)	517132	120.000	113.000
46 Cyclohexane	56	3.154	3.154	(0.769)	8178921	60.0000	57.1652
55 TAME	73	3.848	3.848	(0.938)	20891380	300.000	290.678
61 2-Pentanone	43	5.003	5.003	(0.662)	2957596	240.000	249.208(A)
58 Methyl Cyclohexane	55	4.737	4.737	(1.155)	6982758	60.0000	56.9792
64 Methyl Methacrylate	100	5.196	5.196	(1.267)	481722	120.000	124.416(A)
66 2-nitropropane	41	5.692	5.692	(0.753)	193870	60.0000	68.8031
67 2-Chloroethyl vinyl ether	63	5.764	5.764	(0.763)	356487	60.0000	59.9500
73 Ethyl methacrylate	69	6.628	6.628	(0.877)	2907355	120.000	129.862(A)
77 Tetrahydrothiophene	60	6.942	6.942	(0.918)	560733	60.0000	67.3521(A)
92 cis-1,4-dichloro-2-butene	53	8.683	8.683	(0.893)	248866	60.0000	65.8964(A)
98 t-1,4-Dichloro-2-butene	53	8.955	8.955	(0.921)	253447	60.0000	63.8113(A)
109 1,2,3-Trimethylbenzene	105	9.789	9.789	(1.007)	8315482	60.0000	60.6855(A)

QC Flag Legend

- A - Target compound detected but, quantitated amount exceeded maximum amount.
- M - Compound response manually integrated.
- H - Operator selected an alternate compound hit.



STL Denver

INTERNAL STANDARD COMPOUNDS  
AREA AND RT SUMMARY

Instrument ID: C.i  
Lab File ID: c0458.d  
Lab Smp Id: SUPP060  
Analysis Type: VOA  
Quant Type: ISTD  
Operator: reinharj  
Method File: /chem/C.i/051004.b/C-20ml-AQ.m  
Misc Info:

Calibration Date: 05/10/4  
Calibration Time: 1950  
Client Smp ID: SUPP060  
Level: LOW  
Sample Type: WATER

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
56 Fluorobenzene	1571830	785915	3143660	1701578	8.25
81 Chlorobenzene-d5	261684	130842	523368	284116	8.57
107 1,4-Dichlorobenze	297440	148720	594880	327600	10.14

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
56 Fluorobenzene	4.10	3.60	4.60	4.10	0.04
81 Chlorobenzene-d5	7.56	7.06	8.06	7.56	-0.06
107 1,4-Dichlorobenze	9.72	9.22	10.22	9.72	0.02

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/C.i/051004.b/c0458.d

Date : 10-MAY-2004 20:33

Client ID: SUPP060

Sample Info: SUPP060

Purge Volume: 20.0

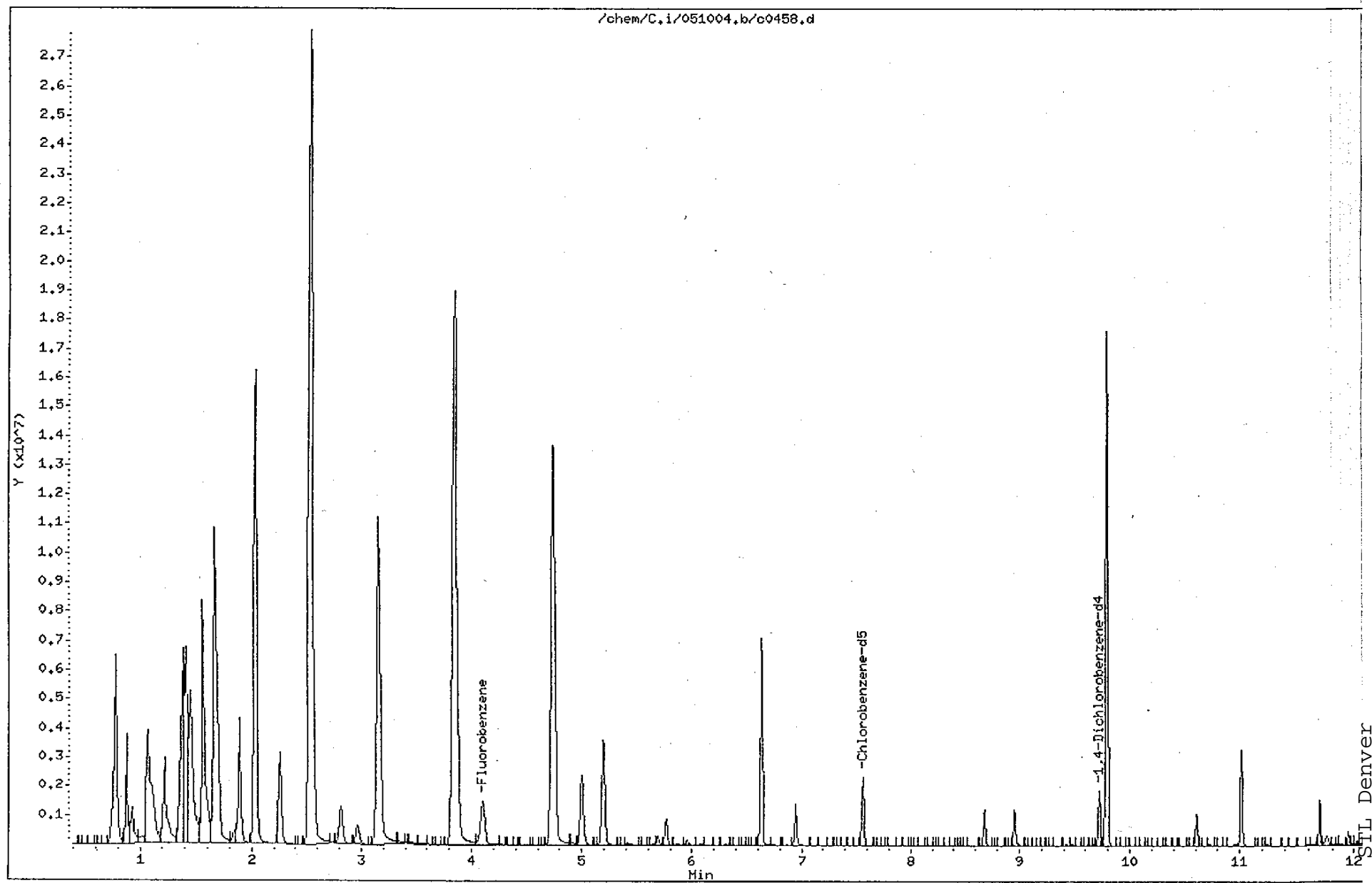
Column phase: DB624

Instrument: C.i

Operator: reinharj

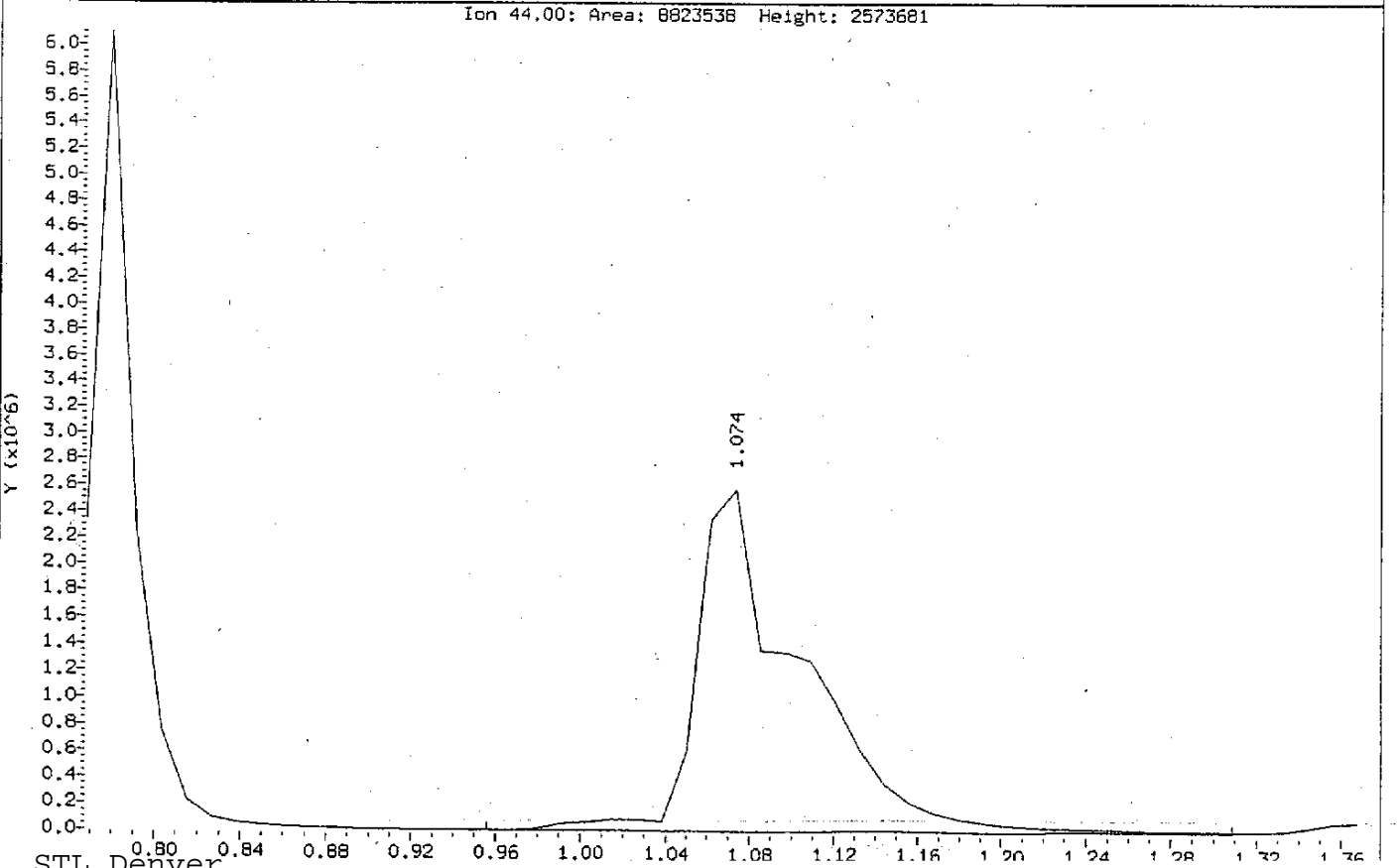
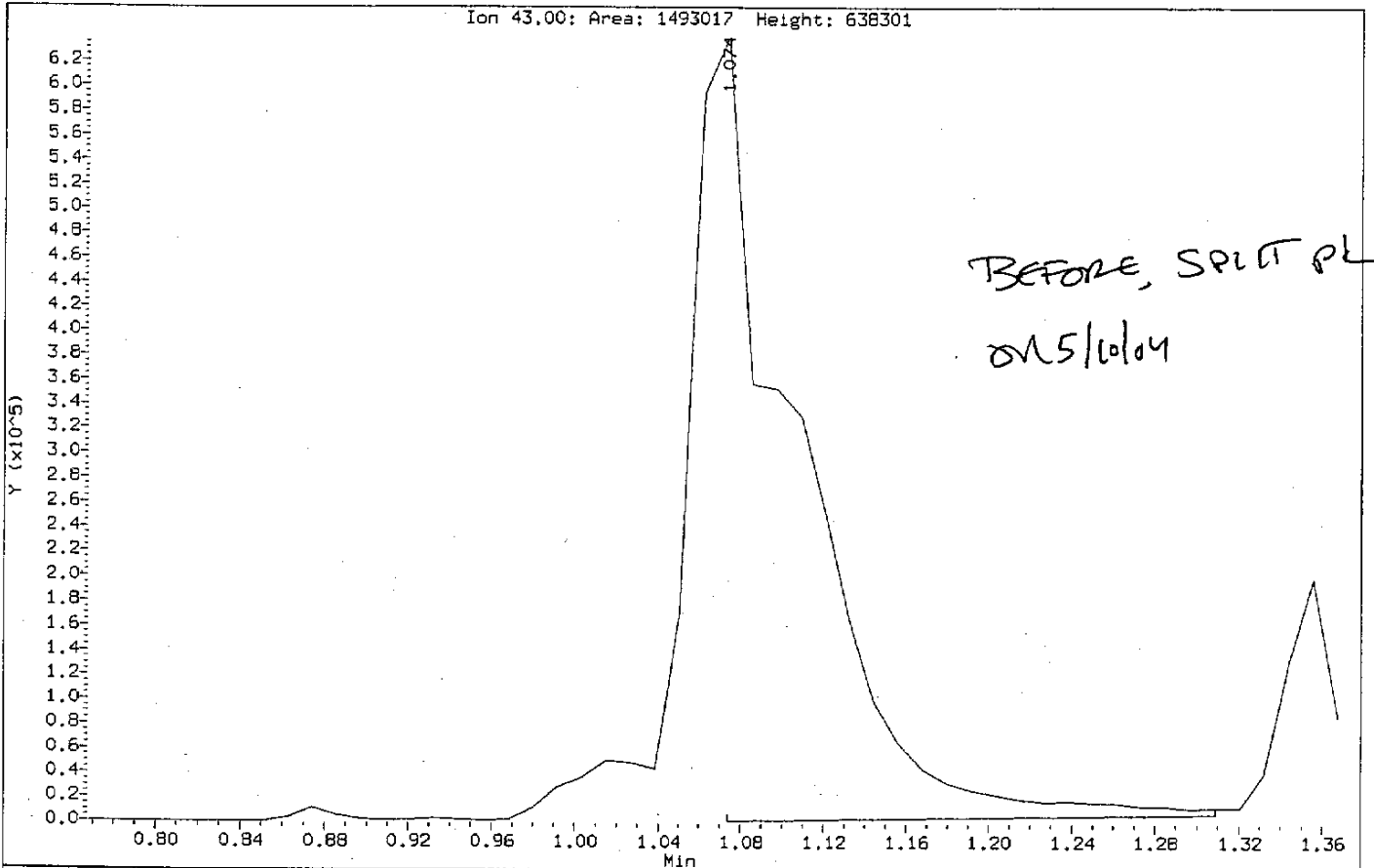
Column diameter: 0.53

Page 7



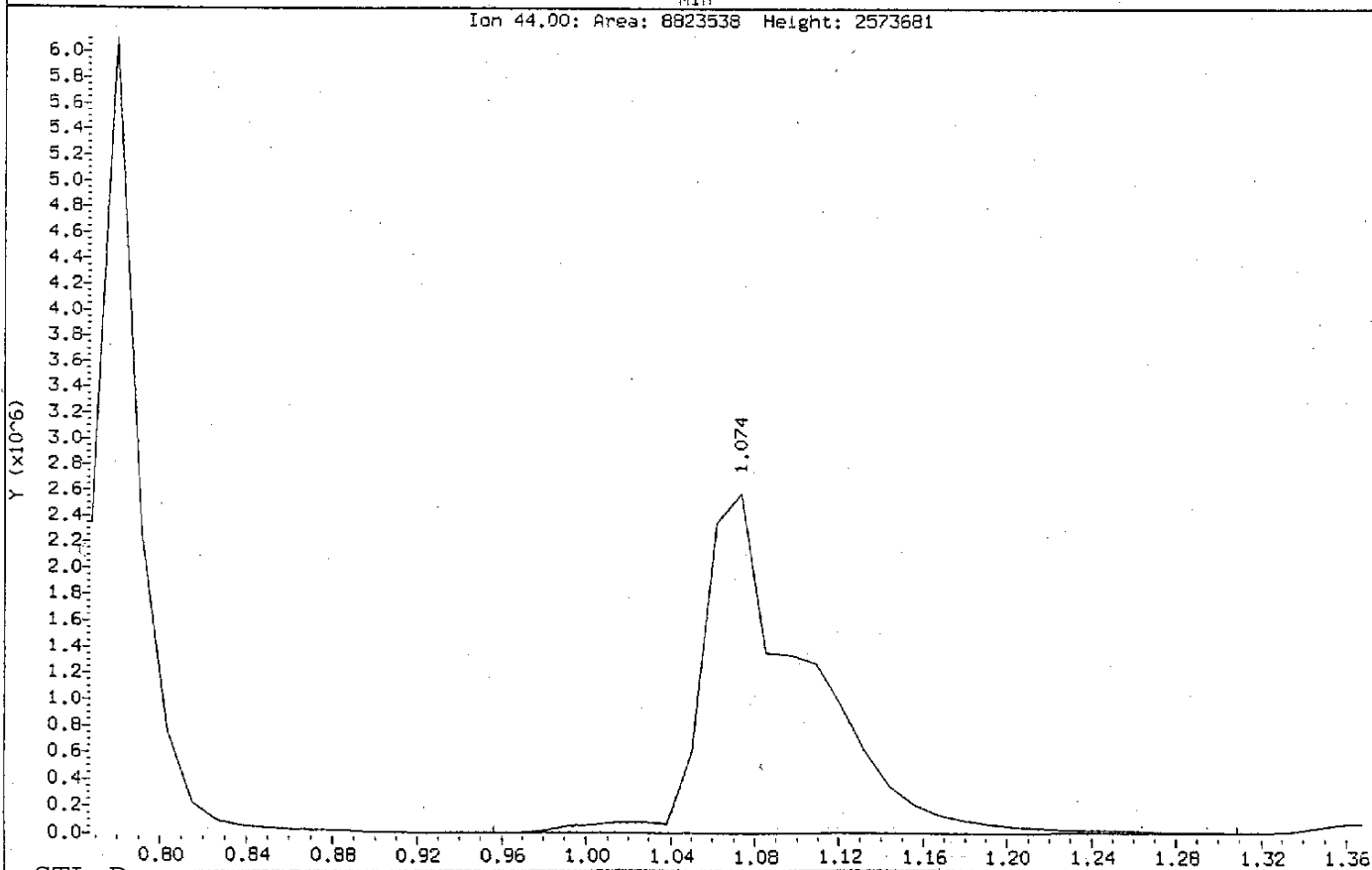
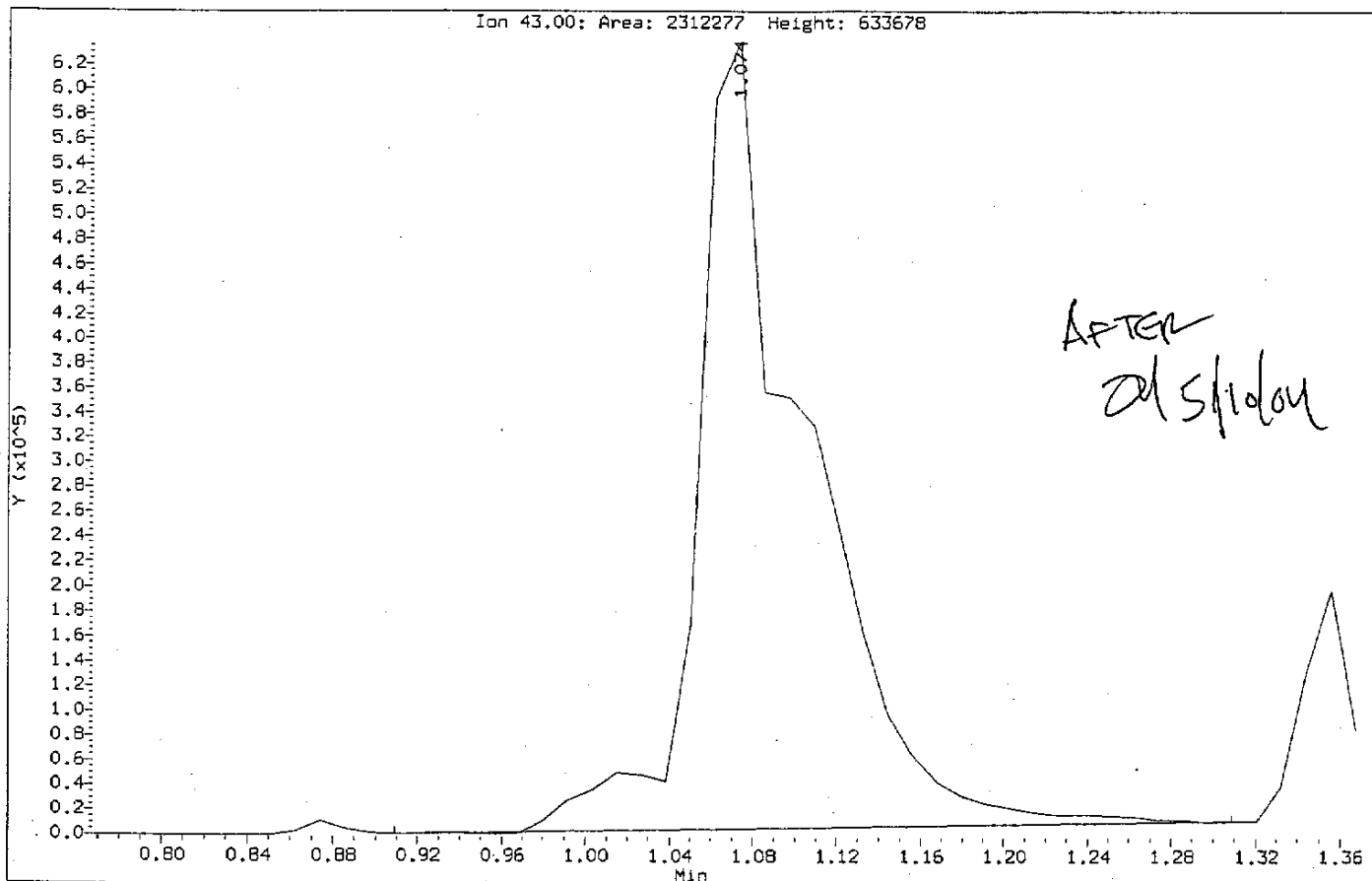
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Injection Date: 10-MAY-2004 20:33  
Instrument: C.1  
Client Sample ID: SUPP060

Compound: Ethylene Oxide  
CAS Number: 75-21-98



Data File: /chem/C.i/051004.b/c0458.d  
Injection Date: 10-MAY-2004 20:33  
Instrument: C.i  
Client Sample ID: SUPP060

Compound: Ethylene Oxide  
CAS Number: 75-21-98



## GC/MS Continuing Calibration Review Checklist

STL Denver

Instrument ID and Date: C 05/26/04Check Method Used: Analysis ☐ 625 ☐ 8270 ☐ Other SV \_\_\_\_\_☐ 524.2 ☐ 624 ☒ 8260B ☐ Other VOA \_\_\_\_\_VOA Preparation ☐ 5mL ☒ 20mL ☐ 5035 Low ☐ 5035 High ☐ 5030 Low ☐ 5030 High

Review Items	Level 1			Level 2	Comments
	Yes	No	N/A		
<b>Continuing Calibration</b>					
1. BFB/DFTPP meets criteria?	/			/	
2. ICAL date and instrument ID verified?	/			/	
3. Do SPCC RRFs and CCC %Ds meet method criteria?	/			/	
4. Does %D meet criteria for non-CCC compounds?	/			/	
5. Isomeric pairs checked for correct peak assignment?	/			/	
6. Standards traceability properly documented?	/			/	
7. Manual integrations documented and checked?			/	/	
8. Do the Internal Standards meet criteria for %D against ICAL?	/			/	

1st Level Reviewer: SPVDate: 05/26/042nd Level Reviewer: GNDate: 5/26/04

Calibration History

Method : /chem/C.i/052604.b/C-20ml-AQ.m  
Start Cal Date: 02-MAR-2004 00:09  
End Cal Date : 10-MAY-2004 20:33

Initial Calibration

Injection Date	Sublist	Calibration File
Cal Level: 1 , Cal Amount: 1.00000		
10-MAY-2004 18:45	2-supp	/chem/C.i/051004.b/c0453.d
05-MAY-2004 13:47	1-main	/chem/C.i/050504i.b/c0304.d
Cal Level: 2 , Cal Amount: 2.00000		
10-MAY-2004 19:07	2-supp	/chem/C.i/051004.b/c0454.d
05-MAY-2004 14:11	1-main	/chem/C.i/050504i.b/c0305.d
Cal Level: 3 , Cal Amount: 5.00000		
10-MAY-2004 19:29	2-supp	/chem/C.i/051004.b/c0455.d
05-MAY-2004 14:35	1-main	/chem/C.i/050504i.b/c0306.d
Cal Level: 4 , Cal Amount: 10.0000		
10-MAY-2004 19:50	2-supp	/chem/C.i/051004.b/c0456.d
05-MAY-2004 14:59	1-main	/chem/C.i/050504i.b/c0307.d
Cal Level: 5 , Cal Amount: 30.0000		
10-MAY-2004 20:11	2-supp	/chem/C.i/051004.b/c0457.d
05-MAY-2004 15:23	1-main	/chem/C.i/050504i.b/c0308.d
Cal Level: 6 , Cal Amount: 60.0000		
10-MAY-2004 20:33	2-supp	/chem/C.i/051004.b/c0458.d
05-MAY-2004 15:46	1-main	/chem/C.i/050504i.b/c0309.d

Continuing Calibration

26-MAY-2004 07:12	2-supp	/chem/C.i/052604.b/c1010.d
26-MAY-2004 06:51	1-main	/chem/C.i/052604.b/c1009.d

Date : 26-MAY-2004 06:37

Client ID: BFB

Instrument: C.i

Sample Info: BFB,,

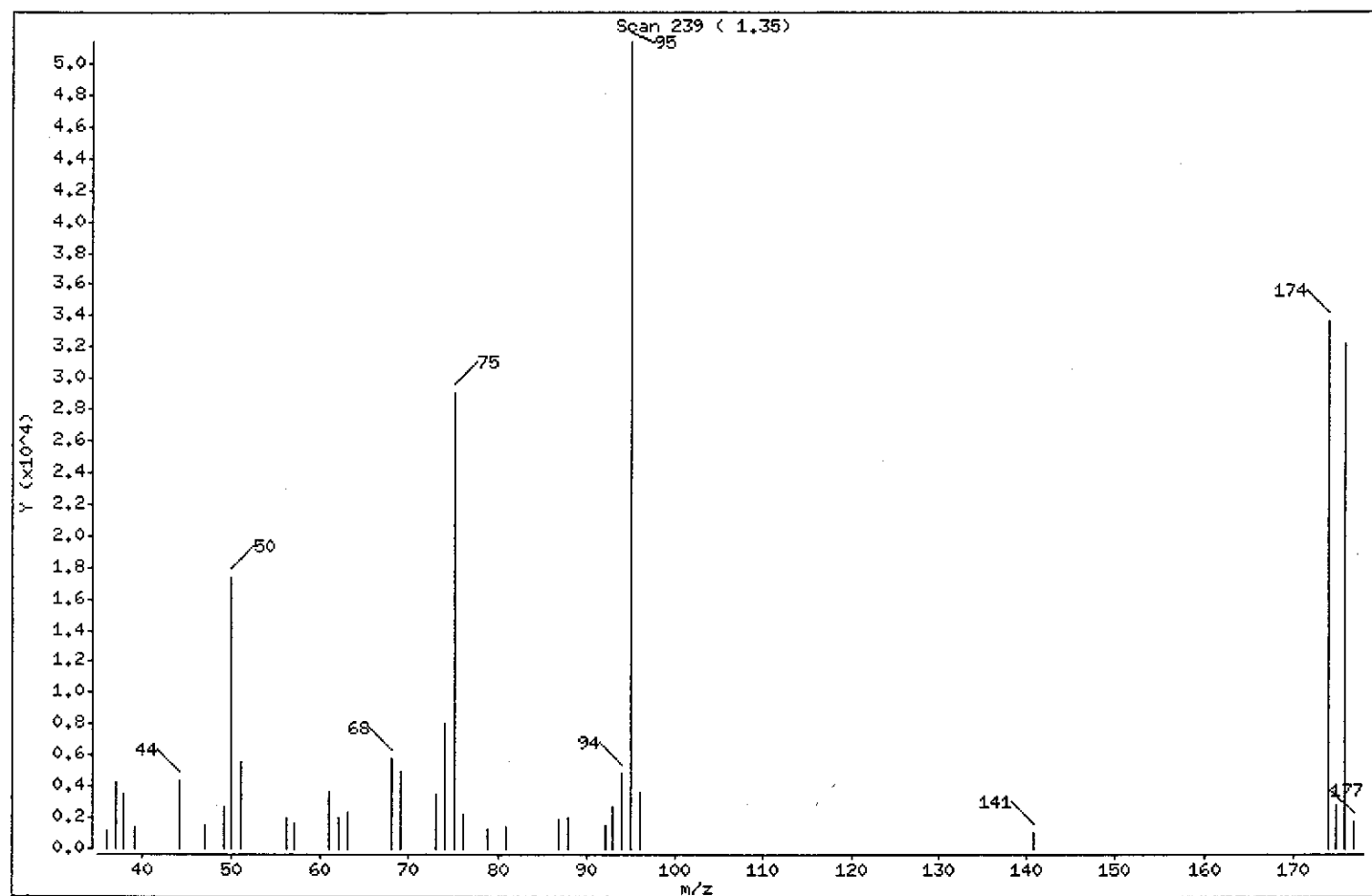
Volume Injected (uL): 1.0

Operator: yanezj

Column phase: DB624

Column diameter: 0.53

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	33.73
75	30.00 - 60.00% of mass 95	56.45
96	5.00 - 9.00% of mass 95	7.14
173	Less than 2.00% of mass 174	0.00 ( 0.00)
174	50.00 - 100.00% of mass 95	65.44
175	5.00 - 9.00% of mass 174	5.55 ( 8.49)
176	95.00 - 101.00% of mass 174	62.74 ( 95.86)
177	5.00 - 9.00% of mass 176	3.36 ( 5.35)

Date : 26-MAY-2004 06:37

Client ID: BFB

Instrument: C.i

Sample Info: BFB,,

Volume Injected (uL): 1.0

Operator: yanezj

Column phase: DB624

Column diameter: 0.53

Data File: c1008.d

Spectrum: Scan 239 ( 1.35)

Location of Maximum: 95.00

Number of points: 34

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36.10	1208	56.25	2061	75.10	29024	95.00	51416
37.10	4297	57.15	1650	76.10	2265	96.05	3673
38.10	3541	61.10	3698	78.80	1290	140.85	1015
39.25	1449	62.10	1980	81.00	1462	173.90	33648
44.15	4384	63.10	2385	86.95	1914	174.80	2856
47.20	1488	68.05	5760	87.95	1982	175.90	32256
49.10	2679	69.05	4931	92.10	1583	176.90	1726
50.10	17344	73.05	3507	93.00	2660		
51.10	5508	74.10	8012	94.00	4809		



Data File: /chem/C.i/052604.b/c1008.d

Page 1

Date : 26-MAY-2004 06:37

Client ID: BFB

Instrument: C.i

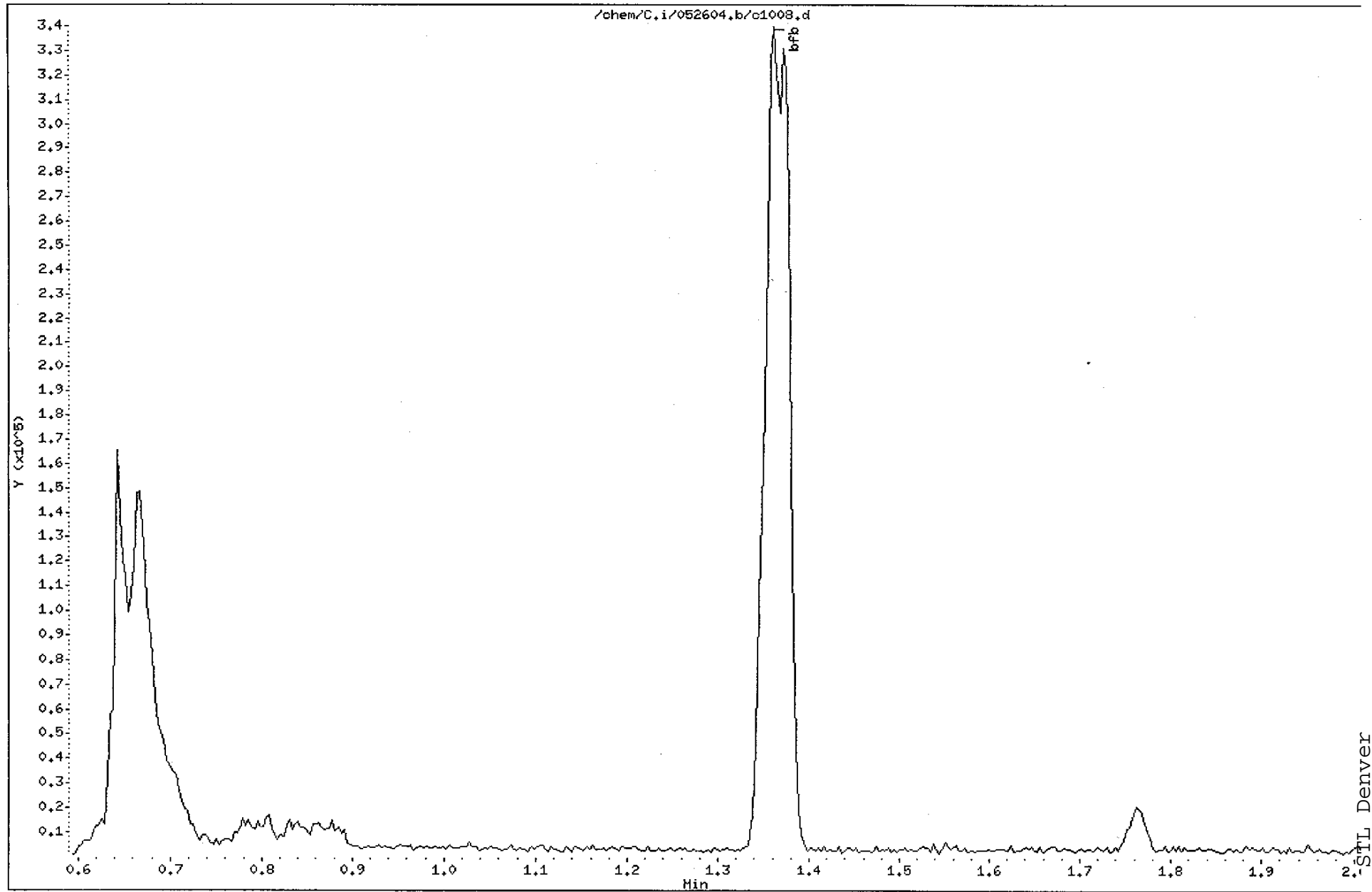
Sample Info: BFB,,

Operator: yanezj

Volume Injected (uL): 1.0

Column diameter: 0.53

Column phase: DB624



STL Denver

VOLATILE REPORT SW-846

Data file : /chem/C.i/052604.b/c1009.d  
Lab Smp Id: MAIN010 Client Smp ID: MAIN010  
Inj Date : 26-MAY-2004 06:51  
Operator : yanezj Inst ID: C.i  
Smp Info : MAIN010,,067/082-04  
Misc Info :  
Comment : Purge and Trap Analysis  
Method : /chem/C.i/052604.b/C-20ml-AQ.m  
Meth Date : 26-May-2004 07:46 yanezj Quant Type: ISTD  
Cal Date : 10-MAY-2004 20:33 Cal File: c0458.d  
Als bottle: 2 Continuing Calibration Sample  
Dil Factor: 1.00000  
Integrator: Falcon Compound Sublist: 1-main.sub  
Target Version: 3.40  
Processing Host: chemsv02

Concentration Formula: Amt \* DF \* Vp/Vs

Name	Value	Description
DF	1.000	Dilution Factor
Vp	20.000	Final Purge Volume (ml)
Vs	20.000	Sample Volume (ml)

						AMOUNTS	
		QUANT SIG				CAL-AMT	ON-COL
Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	( ug/L)	( ug/L)
*****	****	***	*****	*****	*****	*****	*****
* 56 Fluorobenzene	96	4.107	4.107	(1.000)	1494631	10.0000	
* 81 Chlorobenzene-d5	119	7.563	7.563	(1.000)	229974	10.0000	
* 107 1,4-Dichlorobenzene-d4	152	9.721	9.721	(1.000)	294136	10.0000	
M 12 1,2-Dichloroethene (total)	96				834724	20.0000	19.6777
M 18 Xylene (total)	106				2007027	30.0000	30.2747
1 dichlorodifluoromethane	85	0.835	0.835	(0.203)	401056	10.0000	10.4735
3 Chloromethane	50	0.918	0.918	(0.223)	481799	10.0000	11.2840
4 Vinyl Chloride	62	0.953	0.953	(0.232)	382187	10.0000	10.5606
6 Bromomethane	94	1.106	1.106	(0.269)	144068	10.0000	12.6992
7 Chloroethane	64	1.129	1.129	(0.275)	240053	10.0000	11.4833
9 Trichlorofluoromethane	101	1.223	1.223	(0.298)	512773	10.0000	10.8972
10 Ethanol	45	1.341	1.341	(0.326)	66419	500.000	435.978
15 Acrolein	56	1.446	1.446	(0.352)	219790	100.000	65.5692
17 1,1-Dichloroethene	96	1.458	1.458	(0.355)	395968	10.0000	10.4382
19 Acetone	43	1.529	1.529	(0.372)	160987	40.0000	35.8205
20 Iodomethane	142	1.552	1.552	(0.378)	414293	10.0000	10.2650

Compounds	QUANT SIG					AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT ( ug/L)	ON-COL ( ug/L)
=====	=====	==	=====	=====	=====	=====	=====
25 Acetonitrile	41	1.705	1.705	(0.415)	180376	100.000	94.7887
26 Methylene Chloride	84	1.752	1.752	(0.427)	332597	10.0000	9.83066
27 tert-Butyl alcohol	59	1.834	1.834	(0.447)	221796	200.000	151.920
30 Acrylonitrile	53	1.952	1.952	(0.475)	541200	100.000	82.6347
29 trans-1,2-Dichloroethene	96	1.893	1.893	(0.461)	432996	10.0000	9.89358
32 1,1-Dichloroethane	63	2.210	2.210	(0.538)	893487	10.0000	9.98244
34 Chloroprene	53	2.257	2.257	(0.550)	923571	10.0000	9.87924
33 Isopropyl ether	87	2.234	2.234	(0.544)	1289275	50.0000	46.2239(Q)
38 cis-1,2-Dichloroethene	96	2.717	2.717	(0.662)	401728	10.0000	9.78416
37 2,2-Dichloropropane	77	2.687	2.687	(0.654)	624834	10.0000	10.3063
39 2-Butanone	43	2.777	2.777	(0.676)	216109	40.0000	31.0670
41 Propionitrile	54	2.898	2.898	(0.706)	180570	100.000	80.4352
44 Methacrylonitrile	41	3.019	3.019	(0.735)	896124	100.000	80.9663
42 Bromochloromethane	128	2.952	2.952	(0.719)	103485	10.0000	9.25009
45 Chloroform	83	3.049	3.049	(0.742)	663782	10.0000	9.90761
47 1,1,1-Trichloroethane	97	3.188	3.188	(0.776)	671832	10.0000	9.93772
50 1,1-Dichloropropene	75	3.394	3.394	(0.826)	655382	10.0000	9.60976
49 Carbon Tetrachloride	117	3.333	3.333	(0.812)	561546	10.0000	9.59127
53 Isobutanol	41	3.780	3.780	(0.921)	70207	200.000	155.492
51 Benzene	78	3.641	3.641	(0.887)	1719794	10.0000	9.65954
54 1,2-Dichloroethane	62	3.786	3.786	(0.922)	361400	10.0000	8.93045
57 Trichloroethene	130	4.608	4.608	(1.122)	370841	10.0000	9.57545
59 n-Butanol	56	4.783	4.783	(1.165)	47846	200.000	124.412
60 1,2-Dichloropropane	63	4.947	4.947	(1.205)	377313	10.0000	9.24256
62 Dibromomethane	93	5.086	5.086	(1.238)	97914	10.0000	8.40009
63 1,4-Dioxane	88	5.146	5.146	(1.253)	47744	500.000	411.893
65 Bromodichloromethane	83	5.315	5.315	(1.294)	354789	10.0000	9.09857
68 cis-1,3-Dichloropropene	75	5.865	5.865	(0.775)	386183	10.0000	8.91801
70 4-Methyl-2-pentanone	43	6.089	6.089	(0.805)	480318	40.0000	32.5363
71 Toluene	91	6.149	6.149	(0.813)	1736059	10.0000	10.0023
72 trans-1,3-Dichloropropene	75	6.518	6.518	(0.862)	260968	10.0000	8.56450
74 1,1,2-Trichloroethane	97	6.687	6.687	(0.884)	129339	10.0000	8.15041
75 Tetrachloroethene	164	6.687	6.687	(0.884)	278488	10.0000	10.1513
76 1,3-Dichloropropane	76	6.844	6.844	(0.905)	258946	10.0000	8.49266
78 2-Hexanone	43	6.983	6.983	(0.923)	276645	40.0000	30.8829
79 Dibromochloromethane	129	7.019	7.019	(0.928)	142400	10.0000	8.71987
80 1,2-Dibromoethane	107	7.104	7.104	(0.939)	108054	10.0000	8.35460
82 Chlorobenzene	112	7.587	7.587	(1.003)	825237	10.0000	9.53155
83 1-Chlorohexane	91	7.624	7.624	(1.008)	564384	10.0000	9.40958
84 1,1,1,2-Tetrachloroethane	131	7.702	7.702	(1.018)	233725	10.0000	9.94079
85 Ethylbenzene	106	7.702	7.702	(1.018)	569068	10.0000	10.1448
86 m and p-Xylene	106	7.829	7.829	(1.035)	1396201	20.0000	20.3145
87 o-Xylene	106	8.192	8.192	(1.083)	610826	10.0000	9.96021
88 Styrene	104	8.222	8.222	(1.087)	886749	10.0000	9.53264
89 Bromoform	173	8.367	8.367	(1.106)	51928	10.0000	8.04180
90 isopropyl benzene	105	8.542	8.542	(1.129)	1869840	10.0000	10.5710
91 Cyclohexanone	55	8.639	8.639	(1.142)	214678	400.000	376.063

Compounds	QUANT SIG					AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT ( ug/L)	ON-COL ( ug/L)
=====	----	==	-----	-----	-----	-----	-----
94 Bromobenzene	156	8.790	8.790	(0.904)	228628	10.0000	8.74007
95 1,1,2,2-Tetrachloroethane	83	8.893	8.893	(1.176)	112965	10.0000	8.33133
96 1,2,3-Trichloropropane	110	8.911	8.911	(0.917)	31613	10.0000	7.45457(Q)
97 n-Propylbenzene	120	8.917	8.917	(0.917)	439431	10.0000	9.70302
99 2-Chlorotoluene	126	8.977	8.977	(0.924)	327600	10.0000	9.66668
100 4-Chlorotoluene	126	9.092	9.092	(0.935)	317737	10.0000	9.64352
101 1,3,5-Trimethylbenzene	105	9.098	9.098	(0.936)	1469945	10.0000	9.92064
102 tert-Butylbenzene	119	9.364	9.364	(0.963)	1167409	10.0000	10.1254
103 1,2,4-Trimethylbenzene	105	9.424	9.424	(0.970)	1377434	10.0000	9.84388
104 sec-Butylbenzene	134	9.563	9.563	(0.984)	355429	10.0000	10.3309
105 m-Dichlorobenzene	146	9.648	9.648	(0.993)	521159	10.0000	9.41712
106 4-Isopropyltoluene	119	9.708	9.708	(0.999)	1473424	10.0000	10.1727
108 p-dichlorobenzene	146	9.739	9.739	(1.002)	503040	10.0000	9.63018
110 o-Dichlorobenzene	146	10.059	10.059	(1.035)	409007	10.0000	9.78743
111 n-Butylbenzene	91	10.071	10.071	(1.036)	1651407	10.0000	10.6826
112 1,2-Dibromo-3-chloropropane	157	10.772	10.772	(1.108)	12872	10.0000	8.29371
113 1,2,4-Trichlorobenzene	180	11.431	11.431	(1.176)	261889	10.0000	10.7973
114 Hexachlorobutadiene	225	11.539	11.539	(1.187)	207413	10.0000	11.5088
115 Naphthalene	128	11.594	11.594	(1.193)	313189	10.0000	8.87936
116 1,2,3-Trichlorobenzene	180	11.757	11.757	(1.210)	197466	10.0000	10.5906

QC Flag Legend

Q - Qualifier signal failed the ratio test.

Internal Standard  
Check Report

Instrument ID: C.i                      Injection Date: 26-MAY-2004 06:51  
Lab File ID: c1009.d                  Lab Sample ID: MAIN010  
Analysis Type: WATER                  Method File: /chem/C.i/052604.b/C-20ml-AQ.m

	ICAL	SAMP	ICAL	SAMP	
INTERNAL STANDARD	AREA	AREA	RT	RT	%R
=====	=====	=====	=====	=====	=====
Fluorobenzene	1828430	1494631	4.107	4.107	81.7
Chlorobenzene-d5	300471	229974	7.564	7.563	76.5
1,4-Dichlorobenzene-d4	353909	294136	9.721	9.721	83.1

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INTERNAL STANDARD COMPOUNDS  
AREA AND RT SUMMARY

Instrument ID: C.i  
Lab File ID: c1009.d  
Lab Smp Id: MAIN010  
Analysis Type: VOA  
Quant Type: ISTD  
Operator: yanezj  
Method File: /chem/C.i/052604.b/C-20ml-AQ.m  
Misc Info:

Calibration Date: 05/26/4  
Calibration Time: 0651  
Client Smp ID: MAIN010  
Level: LOW  
Sample Type: WATER

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
56 Fluorobenzene	1494631	747316	2989262	1494631	0.00
81 Chlorobenzene-d5	229974	114987	459948	229974	0.00
107 1,4-Dichlorobenze	294136	147068	588272	294136	0.00

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
56 Fluorobenzene	4.11	3.61	4.61	4.11	0.00
81 Chlorobenzene-d5	7.56	7.06	8.06	7.56	0.00
107 1,4-Dichlorobenze	9.72	9.22	10.22	9.72	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.

CONTINUING CALIBRATION COMPOUNDS  
 PERCENT DRIFT REPORT

Instrument ID: C.i  
 Lab File ID: c1009.d  
 Analysis Type: WATER

Injection Date: 26-MAY-2004 06:51  
 Lab Sample ID: MAIN010  
 Method File: /chem/C.i/052604.b/C-20ml-AQ.m

COMPOUND	EXPECTED CONC.	MEASURED CONC.	%D	MAX %D
64 dichlorodifluoromethane	10.0000	10.4735	4.7	50.0
1 Chloromethane	10.0000	11.2840	12.8	50.0
4 Vinyl Chloride	10.0000	10.5606	5.6	20.0
2 Bromomethane	10.0000	12.6992	27.0	50.0
5 Chloroethane	10.0000	11.4833	14.8	50.0
11 Trichlorofluoromethane	10.0000	10.8972	9.0	50.0
3 Ethanol	500.0000	435.9779	12.8	50.0
8 Acrolein	100.0000	65.5692	34.4	50.0
12 1,1-Dichloroethene	10.0000	10.4383	4.4	20.0
85 1,2-Dichloroethene (total)	20.0000	19.6777	1.6	50.0
7 Acetone	40.0000	35.8205	10.4	50.0
21 Iodomethane	10.0000	10.2650	2.6	50.0
118 Xylene (total)	30.0000	30.2747	0.9	50.0
68 Acetonitrile	100.0000	94.7887	5.2	50.0
6 Methylene Chloride	10.0000	9.8307	1.7	50.0
86 tert-Butyl alcohol	200.0000	151.9201	24.0	50.0
0 trans-1,2-Dichloroethene	10.0000	9.8936	1.1	50.0
9 Acrylonitrile	100.0000	82.6347	17.4	50.0
15 1,1-Dichloroethane	10.0000	9.9824	0.2	50.0
84 Isopropyl ether	50.0000	46.2239	7.6	50.0
69 Chloroprene	10.0000	9.8792	1.2	50.0
93 2,2-Dichloropropane	10.0000	10.3063	3.1	50.0
0 cis-1,2-Dichloroethene	10.0000	9.7842	2.2	50.0
20 2-Butanone	40.0000	31.0670	22.3	50.0
70 Propionitrile	100.0000	80.4352	19.6	50.0
13 Bromochloromethane	10.0000	9.2501	7.5	50.0
72 Methacrylonitrile	100.0000	80.9663	19.0	50.0
17 Chloroform	10.0000	9.9076	0.9	20.0
22 1,1,1-Trichloroethane	10.0000	9.9377	0.6	50.0
23 Carbon Tetrachloride	10.0000	9.5913	4.1	50.0
94 1,1-Dichloropropene	10.0000	9.6098	3.9	50.0
30 Benzene	10.0000	9.6595	3.4	50.0
71 Isobutanol	200.0000	155.4920	22.3	50.0
16 1,2-Dichloroethane	10.0000	8.9304	10.7	50.0
29 Trichloroethene	10.0000	9.5755	4.2	50.0
88 n-Butanol	200.0000	124.4125	37.8	50.0
26 1,2-Dichloropropane	10.0000	9.2426	7.6	20.0
34 Dibromomethane	10.0000	8.4001	16.0	50.0
57 1,4-Dioxane	500.0000	411.8930	17.6	50.0

CONTINUING CALIBRATION COMPOUNDS  
PERCENT DRIFT REPORT

Instrument ID: C.i  
Lab File ID: c1009.d  
Analysis Type: WATER

Injection Date: 26-MAY-2004 06:51  
Lab Sample ID: MAIN010  
Method File: /chem/C.i/052604.b/C-20ml-AQ.m

COMPOUND	EXPECTED CONC.	MEASURED CONC.	%D	MAX %D
25 Bromodichloromethane	10.0000	9.0986	9.0	50.0
28 cis-1,3-Dichloropropene	10.0000	8.9180	10.8	50.0
38 4-Methyl-2-pentanone	40.0000	32.5363	18.7	50.0
45 Toluene	10.0000	10.0023	0.0	20.0
31 trans-1,3-Dichloropropene	10.0000	8.5645	14.4	50.0
42 Tetrachloroethene	10.0000	10.1513	1.5	50.0
32 1,1,2-Trichloroethane	10.0000	8.1504	18.5	50.0
109 1,3-Dichloropropane	10.0000	8.4927	15.1	50.0
43 2-Hexanone	40.0000	30.8829	22.8	50.0
36 Dibromochloromethane	10.0000	8.7199	12.8	50.0
58 1,2-Dibromoethane	10.0000	8.3546	16.5	50.0
46 Chlorobenzene	10.0000	9.5315	4.7	50.0
92 1-Chlorohexane	10.0000	9.4096	5.9	50.0
74 1,1,1,2-Tetrachloroethane	10.0000	9.9408	0.6	50.0
47 Ethylbenzene	10.0000	10.1448	1.4	20.0
0 m and p-Xylene	20.0000	20.3145	1.6	50.0
0 o-Xylene	10.0000	9.9602	0.4	50.0
49 Styrene	10.0000	9.5326	4.7	50.0
37 Bromoform	10.0000	8.0418	19.6	50.0
79 isopropyl benzene	10.0000	10.5711	5.7	50.0
76 Cyclohexanone	400.0000	376.0628	6.0	50.0
95 Bromobenzene	10.0000	8.7401	12.6	50.0
40 1,1,2,2-Tetrachloroethane	10.0000	8.3313	16.7	50.0
50 1,2,3-Trichloropropane	10.0000	7.4546	25.5	50.0
96 n-Propylbenzene	10.0000	9.7030	3.0	50.0
97 2-Chlorotoluene	10.0000	9.6667	3.3	50.0
99 4-Chlorotoluene	10.0000	9.6435	3.6	50.0
98 1,3,5-Trimethylbenzene	10.0000	9.9206	0.8	50.0
100 tert-Butylbenzene	10.0000	10.1254	1.3	50.0
101 1,2,4-Trimethylbenzene	10.0000	9.8439	1.6	50.0
102 sec-Butylbenzene	10.0000	10.3309	3.3	50.0
61 m-Dichlorobenzene	10.0000	9.4171	5.8	50.0
103 4-Isopropyltoluene	10.0000	10.1727	1.7	50.0
62 p-dichlorobenzene	10.0000	9.6302	3.7	50.0
63 o-Dichlorobenzene	10.0000	9.7874	2.1	50.0
104 n-Butylbenzene	10.0000	10.6826	6.8	50.0
75 1,2-Dibromo-3-chloropropane	10.0000	8.2937	17.1	50.0
105 1,2,4-Trichlorobenzene	10.0000	10.7973	8.0	50.0
106 Hexachlorobutadiene	10.0000	11.5088	15.1	50.0



CONTINUING CALIBRATION COMPOUNDS  
PERCENT DRIFT REPORT

Instrument ID: C.i                      Injection Date: 26-MAY-2004 06:51  
Lab File ID: c1009.d                  Lab Sample ID: MAIN010  
Analysis Type: WATER                  Method File: /chem/C.i/052604.b/C-20ml-AQ.m

COMPOUND	EXPECTED CONC.	MEASURED CONC.	%D	MAX %D
-----	-----	-----	-----	-----
130 Naphthalene	10.0000	8.8794	11.2	50.0
108 1,2,3-Trichlorobenzene	10.0000	10.5906	5.9	50.0

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CONTINUING CALIBRATION COMPOUNDS

Instrument ID: C.i Injection Date: 26-MAY-2004 06:51  
 Lab File ID: c1009.d Init. Calibration Date(s): 03/02/4 05/10/4  
 Analysis Type: WATER Init. Calibration Times: 00:09 20:33  
 Lab Sample ID: MAIN010 Method File: /chem/C.i/052604.b/C-20ml-AQ.m  
 Quant Type: ISTD

COMPOUND	RRF	RF10	MIN	MAX
-----	-----	-----	-----	-----
M 12 1,2-Dichloroethene (total)	0.284	0.279	0.010	1.6 50.0
M 18 Xylene (total)	2.881	2.909	0.010	-1.0 50.0
1 dichlorodifluoromethane	0.256	0.268	0.010	-4.7 50.0
3 Chloromethane	0.286	0.322	0.100	-12.8 50.0
4 Vinyl Chloride	0.242	0.236	0.020	-5.6 20.0
6 Bromomethane	0.073	0.096	0.010	N/A N/A
7 Chloroethane	0.140	0.161	0.010	-14.8 50.0
9 Trichlorofluoromethane	0.315	0.343	0.010	-9.0 50.0
10 Ethanol	0.001	0.001	0.000	12.8 50.0
15 Acrolein	0.022	0.015	0.001	34.4 50.0
17 1,1-Dichloroethene	0.254	0.265	0.020	-4.4 20.0
19 Acetone	0.030	0.027	0.001	10.4 50.0
20 Iodomethane	0.270	0.277	0.010	-2.6 50.0
25 Acetonitrile	0.013	0.012	0.000	5.2 50.0
26 Methylene Chloride	0.226	0.223	0.010	1.7 50.0
27 tert-Butyl alcohol	0.010	0.007	0.001	24.0 50.0
30 Acrylonitrile	0.044	0.036	0.001	17.4 50.0
29 trans-1,2-Dichloroethene	0.293	0.290	0.010	1.1 50.0
32 1,1-Dichloroethane	0.599	0.598	0.100	0.2 50.0
34 Chloroprene	0.625	0.618	0.010	1.2 50.0
33 Isopropyl ether	0.187	0.173	0.010	7.6 50.0
38 cis-1,2-Dichloroethene	0.275	0.269	0.010	2.2 50.0
37 2,2-Dichloropropane	0.406	0.418	0.010	-3.1 50.0
39 2-Butanone	0.047	0.036	0.010	22.3 50.0
41 Propionitrile	0.015	0.012	0.001	19.6 50.0
44 Methacrylonitrile	0.074	0.060	0.010	19.0 50.0
42 Bromochloromethane	0.075	0.069	0.010	7.5 50.0
45 Chloroform	0.448	0.444	0.020	0.9 20.0
47 1,1,1-Trichloroethane	0.452	0.449	0.010	0.6 50.0
50 1,1-Dichloropropene	0.456	0.438	0.010	3.9 50.0
49 Carbon Tetrachloride	0.392	0.376	0.010	4.1 50.0
53 Isobutanol	0.003	0.002	0.000	22.3 50.0
51 Benzene	1.191	1.151	0.010	3.4 50.0
54 1,2-Dichloroethane	0.271	0.242	0.010	10.7 50.0
57 Trichloroethene	0.259	0.248	0.010	4.2 50.0

STL Denver

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: C.i Injection Date: 26-MAY-2004 06:51  
 Lab File ID: c1009.d Init. Calibration Date(s): 03/02/4 05/10/4  
 Analysis Type: WATER Init. Calibration Times: 00:09 20:33  
 Lab Sample ID: MAIN010 Method File: /chem/C.i/052604.b/C-20ml-AQ.m  
 Quant Type: ISTD

COMPOUND	RRF	RF10	MIN RRF	%D	MAX %D
59 n-Butanol	0.003	0.002	0.000	N/A	N/A
60 1,2-Dichloropropane	0.273	0.252	0.020	7.6	20.0
62 Dibromomethane	0.078	0.066	0.010	16.0	50.0
63 1,4-Dioxane	0.001	0.001	0.000	17.6	50.0
65 Bromodichloromethane	0.261	0.237	0.010	9.0	50.0
68 cis-1,3-Dichloropropene	1.883	1.679	0.010	10.8	50.0
70 4-Methyl-2-pentanone	0.642	0.522	0.010	18.7	50.0
71 Toluene	7.547	7.549	0.020	0.0	20.0
72 trans-1,3-Dichloropropene	1.325	1.135	0.010	14.4	50.0
74 1,1,2-Trichloroethane	0.690	0.562	0.010	18.5	50.0
75 Tetrachloroethene	1.193	1.211	0.010	-1.5	50.0
76 1,3-Dichloropropane	1.326	1.126	0.010	15.1	50.0
78 2-Hexanone	0.390	0.301	0.010	22.8	50.0
79 Dibromochloromethane	0.710	0.619	0.010	12.8	50.0
80 1,2-Dibromoethane	0.562	0.470	0.010	16.5	50.0
82 Chlorobenzene	3.765	3.588	0.300	4.7	50.0
83 1-Chlorohexane	2.608	2.454	0.010	5.9	50.0
84 1,1,1,2-Tetrachloroethane	1.022	1.016	0.010	0.6	50.0
85 Ethylbenzene	2.439	2.474	0.010	-1.4	20.0
86 m and p-Xylene	2.989	3.036	0.010	-1.6	50.0
87 o-Xylene	2.667	2.656	0.010	0.4	50.0
88 Styrene	4.045	3.856	0.010	4.7	50.0
89 Bromoform	0.281	0.226	0.101	19.6	50.0
90 isopropyl benzene	7.691	8.131	0.010	-5.7	50.0
91 Cyclohexanone	0.025	0.023	0.001	6.0	50.0
94 Bromobenzene	0.889	0.777	0.010	12.6	50.0
95 1,1,2,2-Tetrachloroethane	0.590	0.491	0.300	16.7	50.0
96 1,2,3-Trichloropropane	0.144	0.107	0.010	25.5	50.0
97 n-Propylbenzene	1.540	1.494	0.010	3.0	50.0
99 2-Chlorotoluene	1.152	1.114	0.010	3.3	50.0
100 4-Chlorotoluene	1.120	1.080	0.010	3.6	50.0
101 1,3,5-Trimethylbenzene	5.037	4.998	0.010	0.8	50.0
102 tert-Butylbenzene	3.920	3.969	0.010	-1.3	50.0
103 1,2,4-Trimethylbenzene	4.757	4.683	0.010	1.6	50.0
104 sec-Butylbenzene	1.170	1.208	0.010	-3.3	50.0

STL Denver

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: C.i	Injection Date: 26-MAY-2004 06:51
Lab File ID: c1009.d	Init. Calibration Date(s): 03/02/4 05/10/4
Analysis Type: WATER	Init. Calibration Times: 00:09 20:33
Lab Sample ID: MAIN010	Method File: /chem/C.i/052604.b/C-20ml-AQ.m
Quant Type: ISTD	

COMPOUND	RRF	RF10	MIN	MAX
-----	-----	-----	-----	-----
105 m-Dichlorobenzene	1.881	1.772	0.010	5.8
106 4-Isopropyltoluene	4.924	5.009	0.010	-1.7
108 p-dichlorobenzene	1.776	1.710	0.010	3.7
110 o-Dichlorobenzene	1.421	1.391	0.010	2.1
111 n-Butylbenzene	5.256	5.614	0.010	-6.8
112 1,2-Dibromo-3-chloropropane	0.053	0.044	0.010	17.1
113 1,2,4-Trichlorobenzene	0.825	0.890	0.010	-8.0
114 Hexachlorobutadiene	0.613	0.705	0.010	-15.1
115 Naphthalene	1.199	1.065	0.010	11.2
116 1,2,3-Trichlorobenzene	0.634	0.671	0.010	-5.9

Data File: /chem/C.i/052604.b/c1009.d

Page 8

Date : 26-MAY-2004 06:51

Client ID: MAIN010

Instrument: C.i

Sample Info: MAIN010,,067/082-04

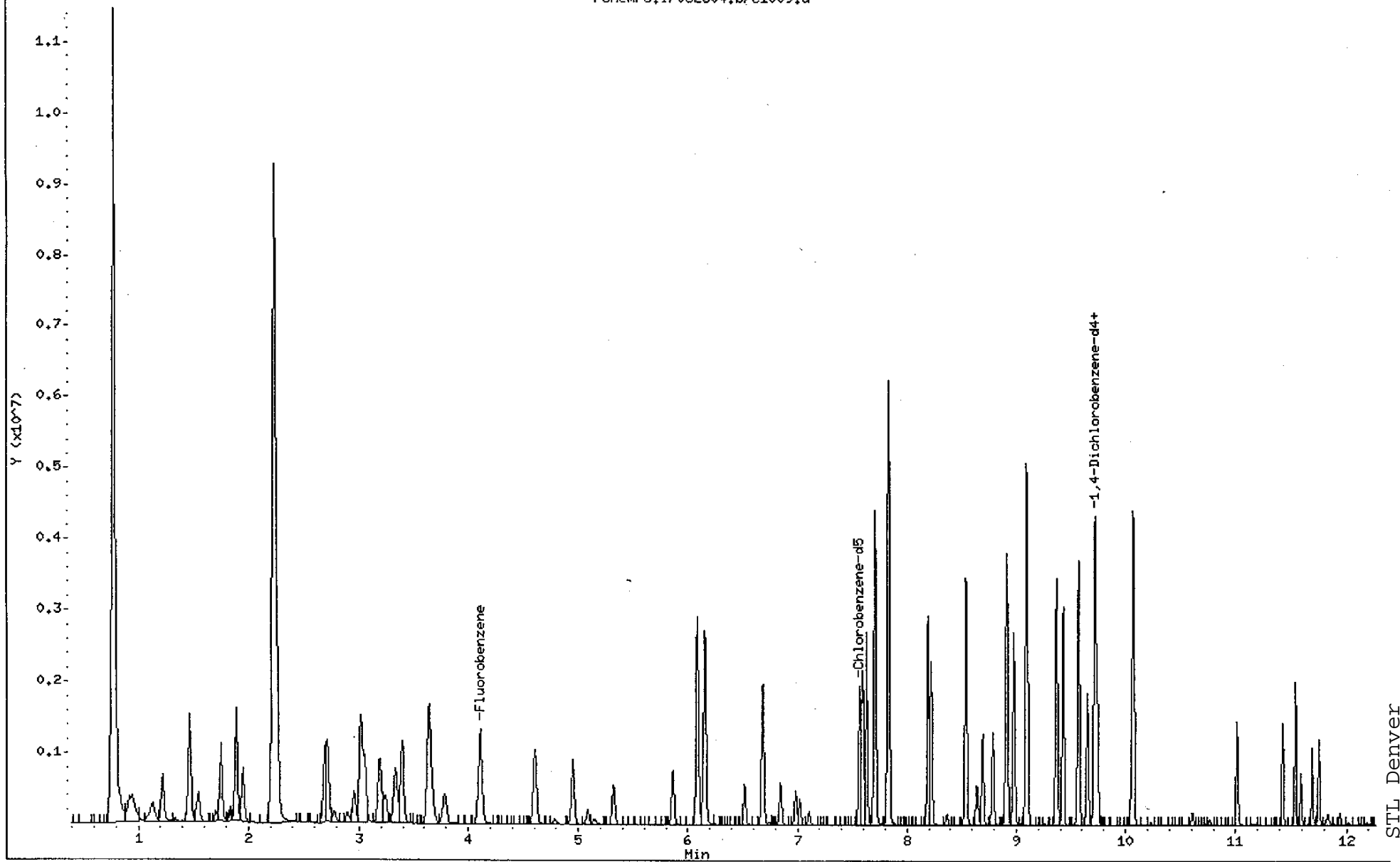
Purge Volume: 20.0

Operator: yanezj

Column phase: DB624

Column diameter: 0.53

/chem/C.i/052604.b/c1009.d



STL Denver

VOLATILE REPORT SW-846

Data file : /chem/C.i/052604.b/c1010.d  
Lab Smp Id: SUPP010 Client Smp ID: SUPP010  
Inj Date : 26-MAY-2004 07:12  
Operator : yanezj Inst ID: C.i  
Smp Info : SUPP010,,011/052-04  
Misc Info :  
Comment : Purge and Trap Analysis  
Method : /chem/C.i/052604.b/C-20ml-AQ.m  
Meth Date : 26-May-2004 07:46 yanezj Quant Type: ISTD  
Cal Date : 10-MAY-2004 20:33 Cal File: c0458.d  
Als bottle: 2 Continuing Calibration Sample  
Dil Factor: 1.00000  
Integrator: Falcon Compound Sublist: 2-suppl.sub  
Target Version: 3.40  
Processing Host: chemsv02

Concentration Formula: Amt \* DF \* Vp/Vs

Name	Value	Description
DF	1.000	Dilution Factor
Vp	20.000	Final Purge Volume (ml)
Vs	20.000	Sample Volume (ml)

Compounds	QUANT SIG				AMOUNTS		
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT ( ug/L)	ON-COL ( ug/L)
* 56 Fluorobenzene	96	4.107	4.107	(1.000)	1833520	10.0000	
* 81 Chlorobenzene-d5	119	7.563	7.563	(1.000)	260102	10.0000	
* 107 1,4-Dichlorobenzene-d4	152	9.721	9.721	(1.000)	288639	10.0000	
\$ 48 Dibromofluoromethane	111	3.236	3.236	(0.788)	330788	10.0000	8.50761
\$ 52 1,2-Dichloroethane-d4	65	3.678	3.678	(0.896)	325370	10.0000	7.82322
\$ 69 Toluene-d8	98	6.083	6.083	(0.804)	1433624	10.0000	9.65569
\$ 93 Bromofluorobenzene	95	8.693	8.693	(1.149)	368298	10.0000	8.22790
2 Dichlorotetrafluoroethane	85	0.882	0.882	(0.215)	336761	10.0000	8.10646
5 Ethylene Oxide	43	1.070	1.070	(0.260)	635669	1250.00	1747.91
8 Dichlorofluoromethane	67	1.211	1.211	(0.295)	768107	10.0000	10.8559
11 Ethyl Ether	59	1.352	1.352	(0.329)	298117	10.0000	9.28398
13 1,2-dichloro-1,1,2-trifluoroet	117	1.375	1.375	(0.335)	482671	10.0000	11.7317
14 2,2-dichloro-1,1,1-trifluoroet	83	1.411	1.411	(0.343)	788568	10.0000	10.2080
16 Trichlorotrifluoroethane	151	1.458	1.458	(0.355)	359123	10.0000	10.7611
21 Carbon Disulfide	76	1.563	1.563	(0.381)	1961378	10.0000	9.54071
24 Methyl Acetate	43	1.693	1.693	(0.412)	753388	50.0000	44.9397

Compounds	QUANT SIG					AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT ( ug/L)	ON-COL ( ug/L)
=====	====	==	=====	=====	=====	=====	=====
23 Allyl Chloride	41	1.669	1.669	(0.406)	1264811	10.0000	9.88135(Q)
22 2-Propanol	45	1.599	1.599	(0.389)	182100	200.000	173.565
28 Methyl t-butyl ether	73	1.892	1.892	(0.461)	636342	10.0000	9.06173
31 Hexane	57	2.033	2.033	(0.269)	1457721	10.0000	10.5749
35 Vinyl acetate	43	2.257	2.257	(0.549)	717812	20.0000	19.5407
36 ETBE	59	2.542	2.542	(0.619)	7054070	50.0000	45.2254
40 Ethyl Acetate	43	2.820	2.820	(0.687)	294423	20.0000	16.6237
43 Tetrahydrofuran	42	2.977	2.977	(0.725)	89749	20.0000	18.2001
46 Cyclohexane	56	3.158	3.158	(0.769)	1526914	10.0000	9.90414
55 TAME	73	3.847	3.847	(0.937)	3472737	50.0000	44.8418
61 2-Pentanone	43	5.007	5.007	(0.662)	442185	40.0000	40.6985
58 Methyl Cyclohexane	55	4.741	4.741	(1.155)	1287407	10.0000	9.74925
64 Methyl Methacrylate	100	5.194	5.194	(1.265)	72122	20.0000	17.2867
66 2-nitropropane	41	5.696	5.696	(0.753)	26844	10.0000	10.4063
67 2-Chloroethyl vinyl ether	63	5.768	5.768	(0.763)	16385	10.0000	6.33141
73 Ethyl methacrylate	69	6.633	6.633	(0.877)	425946	20.0000	20.7821
77 Tetrahydrothiophene	60	6.947	6.947	(0.918)	66323	10.0000	8.70184
92 cis-1,4-dichloro-2-butene	53	8.681	8.681	(0.893)	29222	10.0000	8.78204(Q)
98 t-1,4-Dichloro-2-butene	53	8.959	8.959	(0.922)	30688	10.0000	8.76936
109 1,2,3-Trimethylbenzene	105	9.787	9.787	(1.007)	1378839	10.0000	11.4209

QC Flag Legend

Q - Qualifier signal failed the ratio test.

Internal Standard  
Check Report

Instrument ID: C.i  
Lab File ID: c1010.d  
Analysis Type: WATER

Injection Date: 26-MAY-2004 07:12  
Lab Sample ID: SUPP010  
Method File: /chem/C.i/052604.b/C-20ml-AQ.m

INTERNAL STANDARD	ICAL AREA	SAMP AREA	ICAL RT	SAMP RT	%R
Fluorobenzene	1571830	1833520	4.101	4.107	116.6
Chlorobenzene-d5	261684	260102	7.563	7.563	99.4
1,4-Dichlorobenzene-d4	297440	288639	9.720	9.721	97.0



STL Denver

INTERNAL STANDARD COMPOUNDS  
AREA AND RT SUMMARY

Instrument ID: C.i  
Lab File ID: c1010.d  
Lab Smp Id: SUPP010  
Analysis Type: VOA  
Quant Type: ISTD  
Operator: yanezj  
Method File: /chem/C.i/052604.b/C-20ml-AQ.m  
Misc Info:

Calibration Date: 05/26/4  
Calibration Time: 0651  
Client Smp ID: SUPP010  
Level: LOW  
Sample Type: WATER

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
56 Fluorobenzene	1494631	747316	2989262	1833520	22.67
81 Chlorobenzene-d5	229974	114987	459948	260102	13.10
107 1,4-Dichlorobenze	294136	147068	588272	288639	-1.87

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
56 Fluorobenzene	4.11	3.61	4.61	4.11	0.00
81 Chlorobenzene-d5	7.56	7.06	8.06	7.56	0.00
107 1,4-Dichlorobenze	9.72	9.22	10.22	9.72	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.

CONTINUING CALIBRATION COMPOUNDS  
PERCENT DRIFT REPORT

Instrument ID: C.i                      Injection Date: 26-MAY-2004 07:12  
Lab File ID: c1010.d                  Lab Sample ID: SUPP010  
Analysis Type: WATER                  Method File: /chem/C.i/052604.b/C-20ml-AQ.m

COMPOUND	EXPECTED CONC.	MEASURED CONC.	%D	MAX %D
123 Dichlorotetrafluoroethane	10.0000	8.1065	18.9	50.0
110 Ethylene Oxide	1250.0000	1747.9109	39.8	50.0
87 Dichlorofluoromethane	10.0000	10.8559	8.6	50.0
77 Ethyl Ether	10.0000	9.2840	7.2	50.0
116 1,2-dichloro-1,1,2-trifluoroeth	10.0000	11.7317	17.3	50.0
114 2,2-dichloro-1,1,1-trifluoroeth	10.0000	10.2080	2.1	50.0
65 Trichlorotrifluoroethane	10.0000	10.7611	7.6	50.0
10 Carbon Disulfide	10.0000	9.5407	4.6	50.0
117 2-Propanol	200.0000	173.5650	13.2	50.0
67 Allyl Chloride	10.0000	9.8813	1.2	50.0
125 Methyl Acetate	50.0000	44.9397	10.1	50.0
53 Methyl t-butyl ether	10.0000	9.0617	9.4	50.0
54 Hexane	10.0000	10.5749	5.7	50.0
24 Vinyl acetate	20.0000	19.5407	2.3	50.0
126 ETBE	50.0000	45.2254	9.5	50.0
78 Ethyl Acetate	20.0000	16.6237	16.9	50.0
56 Tetrahydrofuran	20.0000	18.2001	9.0	50.0
119 Cyclohexane	10.0000	9.9041	1.0	50.0
89 Dibromofluoromethane	10.0000	8.5076	14.9	50.0
303 1,2-Dichloroethane-d4	10.0000	7.8232	21.8	50.0
127 TAME	50.0000	44.8418	10.3	50.0
128 Methyl Cyclohexane	10.0000	9.7492	2.5	50.0
120 2-Pentanone	40.0000	40.6985	1.7	50.0
73 Methyl Methacrylate	20.0000	17.2867	13.6	50.0
82 2-nitropropane	10.0000	10.4063	4.1	50.0
35 2-Chloroethyl vinyl ether	10.0000	6.3314	36.7	50.0
301 Toluene-d8	10.0000	9.6557	3.4	50.0
41 Ethyl methacrylate	20.0000	20.7821	3.9	50.0
129 Tetrahydrothiophene	10.0000	8.7018	13.0	50.0
121 cis-1,4-dichloro-2-butene	10.0000	8.7820	12.2	50.0
302 Bromofluorobenzene	10.0000	8.2279	17.7	50.0
60 t-1,4-Dichloro-2-butene	10.0000	8.7694	12.3	50.0
124 1,2,3-Trimethylbenzene	10.0000	11.4209	14.2	50.0

STL Denver

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: C.i Injection Date: 26-MAY-2004 07:12  
 Lab File ID: c1010.d Init. Calibration Date(s): 03/02/4 05/10/4  
 Analysis Type: WATER Init. Calibration Times: 00:09 20:33  
 Lab Sample ID: SUPP010 Method File: /chem/C.i/052604.b/C-20ml-AQ.m  
 Quant Type: ISTD

COMPOUND	RRF	RF10	MIN	MAX
			RRF	%D
\$ 48 Dibromofluoromethane	0.212	0.180	0.010	14.9
\$ 52 1,2-Dichloroethane-d4	0.227	0.177	0.010	21.8
\$ 69 Toluene-d8	5.708	5.512	0.010	3.4
\$ 93 Bromofluorobenzene	1.721	1.416	0.010	17.7
2 Dichlorotetrafluoroethane	0.227	0.184	0.010	18.9
5 Ethylene Oxide	0.002	0.003	0.001	N/A
8 Dichlorofluoromethane	0.386	0.419	0.010	-8.6
11 Ethyl Ether	0.175	0.163	0.010	7.2
13 1,2-dichloro-1,1,2-trifluor	0.215	0.263	0.001	N/A
14 2,2-dichloro-1,1,1-trifluor	0.421	0.430	0.001	-2.1
16 Trichlorotrifluoroethane	0.182	0.196	0.010	-7.6
21 Carbon Disulfide	1.121	1.070	0.010	4.6
24 Methyl Acetate	0.091	0.082	0.010	10.1
23 Allyl Chloride	0.698	0.690	0.010	1.2
22 2-Propanol	0.006	0.005	0.001	13.2
28 Methyl t-butyl ether	0.383	0.347	0.010	9.4
31 Hexane	5.300	5.604	0.010	-5.7
35 Vinyl acetate	0.200	0.196	0.010	2.3
36 ETBE	0.851	0.769	0.010	9.5
40 Ethyl Acetate	0.097	0.080	0.010	16.9
43 Tetrahydrofuran	0.027	0.024	0.003	9.0
46 Cyclohexane	0.841	0.833	0.010	1.0
55 TAME	0.422	0.379	0.010	10.3
61 2-Pentanone	0.418	0.425	0.010	-1.7
58 Methyl Cyclohexane	0.720	0.702	0.010	2.5
64 Methyl Methacrylate	0.023	0.020	0.010	13.6
66 2-nitropropane	0.099	0.103	0.010	-4.1
67 2-Chloroethyl vinyl ether	7.582	0.063	0.010	N/A
73 Ethyl methacrylate	0.788	0.819	0.010	-3.9
77 Tetrahydrothiophene	0.293	0.255	0.010	13.0
92 cis-1,4-dichloro-2-butene	0.115	0.101	0.010	12.2
98 t-1,4-Dichloro-2-butene	0.121	0.106	0.010	12.3
109 1,2,3-Trimethylbenzene	4.183	4.777	0.010	-14.2

Data File: /chem/C.i/052604.b/c1010.d

Date : 26-MAY-2004 07:12

Client ID: SUPP010

Sample Info: SUPP010,,011/052-04

Purge Volume: 20.0

Column phase: DB624

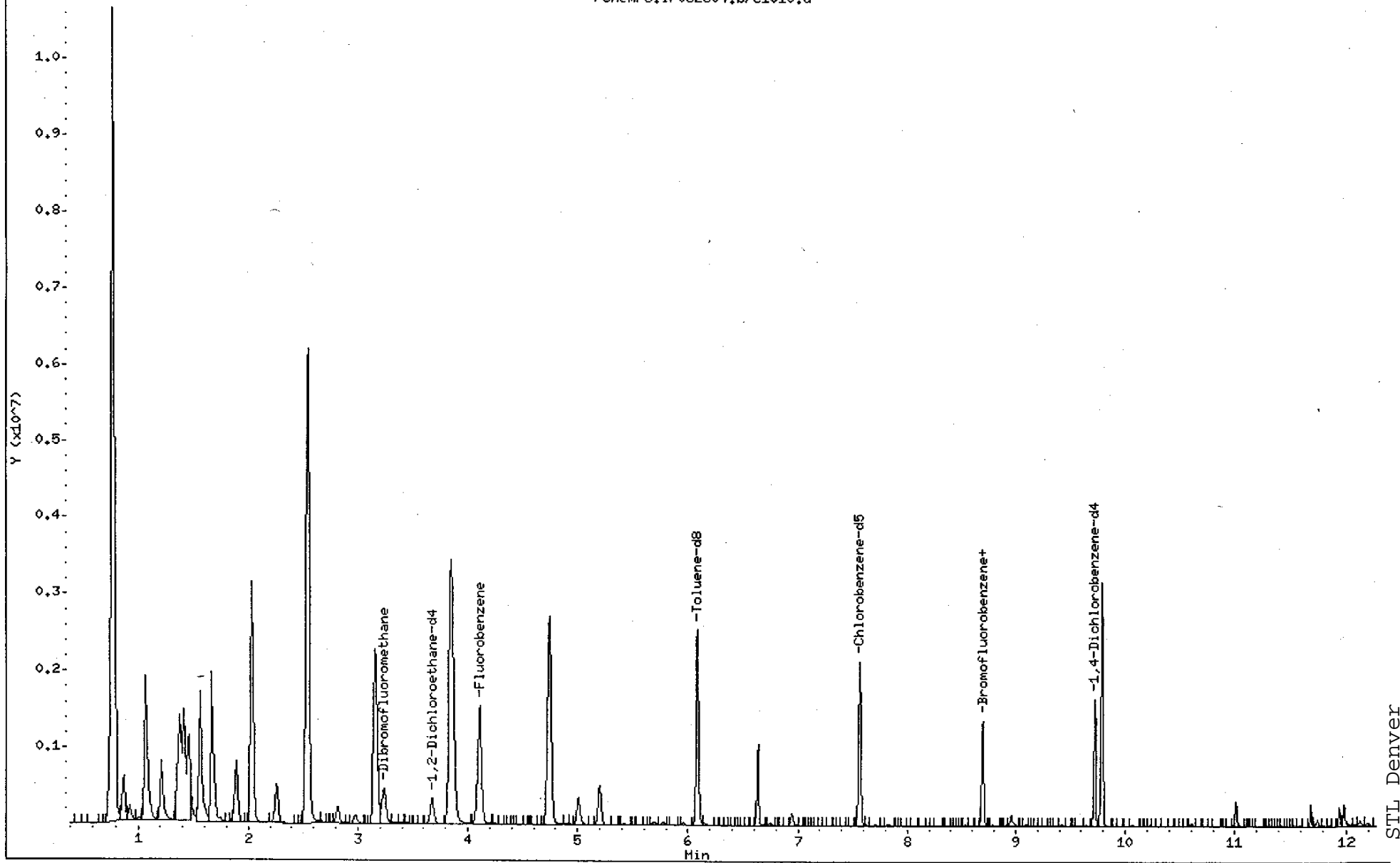
Instrument: C.i

Operator: yanezj

Column diameter: 0.53

Page 5

/chem/C.i/052604.b/c1010.d



**GC/MS VOLATILE  
SAMPLE DATA**

**SEVERN**  
**TRENT**

**STL**

# LCS Report

## LCS SAMPLE

Data File : /chem/C.i/052604.b/c1011.d  
 Samp Info : LCS,,109-04  
 Inj Date : 26-MAY-2004 07:32  
 Sample Amt : 20mL

Sample #	Sample #	Sample #	Sample #	Sample #
=====	=====	=====	=====	=====
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____

Compound	Concentration		%Recovery		
	Spiked	Measured	Meas.	Min	Max
=====					
1,1-Dichloroethene	10.0000	10.7570	108	67	125
Benzene	10.0000	9.4665	95	75	116
Trichloroethene	10.0000	9.4124	94	80	123
Toluene	10.0000	9.6920	97	74	115
Chlorobenzene	10.0000	9.3269	93	77	117


100.0 Percent of recoveries are within control limits.

STL Denver

VOLATILE REPORT SW-846

Data file : /chem/C.i/052604.b/c1011.d  
Lab Smp Id: LCS  
Inj Date : 26-MAY-2004 07:32  
Operator : yanezj  
Smp Info : LCS,,109-04  
Misc Info :  
Comment : Purge and Trap Analysis  
Method : /chem/C.i/052604.b/C-20ml-AQ.m  
Meth Date : 27-May-2004 05:39 yanezj  
Cal Date : 10-MAY-2004 20:33  
Als bottle: 2  
Dil Factor: 1.00000  
Integrator: Falcon  
Target Version: 3.40  
Processing Host: chemsv02

Client Smp ID: LCS  
Inst ID: C.i  
Quant Type: ISTD  
Cal File: c0458.d  
QC Sample: LCS  
Compound Sublist: dcs.sub

05/27/04  


Concentration Formula: Amt \* DF \* Vp/Vs

Name	Value	Description
DF	1.000	Dilution Factor
Vp	20.000	Final Purge Volume (ml)
Vs	20.000	Sample Volume (ml)

Compounds	QUANT SIG			RESPONSE	CONCENTRATIONS	
	MASS	RT	EXP RT REL RT		ON-COLUMN ( ug/L)	FINAL ( ug/L)
*****	----	==	=====	-----	-----	-----
* 56 Fluorobenzene	96	4.106	4.107 (1.000)	1403821	10.0000	
* 81 Chlorobenzene-d5	119	7.563	7.563 (1.000)	213394	10.0000	
* 107 1,4-Dichlorobenzene-d4	152	9.720	9.721 (1.000)	261994	10.0000	
\$ 48 Dibromofluoromethane	111	3.236	3.236 (0.788)	257844	8.66142	8.66142
\$ 52 1,2-Dichloroethane-d4	65	3.677	3.678 (0.895)	265813	8.34754	8.34754
\$ 69 Toluene-d8	98	6.082	6.083 (0.804)	1137993	9.34220	9.34220
\$ 93 Bromofluorobenzene	95	8.693	8.693 (1.149)	316602	8.62114	8.62114
17 1,1-Dichloroethene	96	1.458	1.458 (0.355)	383267	10.7570	10.7570(Q)
51 Benzene	78	3.641	3.641 (0.887)	1583027	9.46653	9.46653
57 Trichloroethene	130	4.608	4.608 (1.122)	342379	9.41241	9.41241
71 Toluene	91	6.149	6.149 (0.813)	1560917	9.69195	9.69195
82 Chlorobenzene	112	7.587	7.587 (1.003)	749298	9.32687	9.32687

QC Flag Legend

Q - Qualifier signal failed the ratio test.



STL Denver

VOLATILE REPORT SW-846

Data file : /chem/C.i/052604.b/c1011.d  
Lab Smp Id: LCS Client Smp ID: LCS  
Inj Date : 26-MAY-2004 07:32  
Operator : yanezj Inst ID: C.i  
Smp Info : LCS,,109-04  
Misc Info :  
Comment : Purge and Trap Analysis  
Method : /chem/C.i/052604.b/C-20ml-AQ.m  
Meth Date : 27-May-2004 05:39 yanezj Quant Type: ISTD  
Cal Date : 10-MAY-2004 20:33 Cal File: c0458.d  
Als bottle: 2 QC Sample: LCS  
Dil Factor: 1.00000  
Integrator: Falcon Compound Sublist: dcs.sub  
Target Version: 3.40  
Processing Host: chemsv02

- NO TENTATIVELY IDENTIFIED COMPOUNDS -

STL Denver

INTERNAL STANDARD COMPOUNDS  
AREA AND RT SUMMARY

Instrument ID: C.i  
Lab File ID: c1011.d  
Lab Smp Id: LCS  
Analysis Type: VOA  
Quant Type: ISTD  
Operator: yanezj  
Method File: /chem/C.i/052604.b/C-20ml-AQ.m  
Misc Info:

Calibration Date: 05/26/4  
Calibration Time: 0712  
Client Smp ID: LCS  
Level: LOW  
Sample Type: WATER

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
=====	=====	=====	=====	=====	=====
56 Fluorobenzene	1833520	916760	3667040	1403821	-23.44
81 Chlorobenzene-d5	260102	130051	520204	213394	-17.96
107 1,4-Dichlorobenze	288639	144320	577278	261994	-9.23

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
=====	=====	=====	=====	=====	=====
56 Fluorobenzene	4.11	3.61	4.61	4.11	-0.02
81 Chlorobenzene-d5	7.56	7.06	8.06	7.56	-0.01
107 1,4-Dichlorobenze	9.72	9.22	10.22	9.72	-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.

STL Denver

RECOVERY REPORT

Client Name: Client SDG: 052604  
Sample Matrix: LIQUID Fraction: VOA  
Lab Smp Id: LCS Client Smp ID: LCS  
Level: LOW Operator: yanezj  
Data Type: MS DATA SampleType: LCS  
SpikeList File: dcs-h20.spk Quant Type: ISTD  
Sublist File: dcs.sub  
Method File: /chem/C.i/052604.b/C-20ml-AQ.m  
Misc Info:

SPIKE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
17 1,1-Dichloroethene	10.0000	10.7570	107.57	67-125
57 Trichloroethene	10.0000	9.41241	94.12	80-123
51 Benzene	10.0000	9.46653	94.67	75-116
71 Toluene	10.0000	9.69195	96.92	74-115
82 Chlorobenzene	10.0000	9.32687	93.27	77-117

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
\$ 48 Dibromofluorometha	8.75000	8.66142	98.99	76-116
\$ 52 1,2-Dichloroethane	8.75000	8.34754	95.40	59-129
\$ 69 Toluene-d8	8.75000	9.34220	106.77	76-116
\$ 93 Bromofluorobenzene	8.75000	8.62114	98.53	74-114

Data File: /chem/C.i/052604.b/c1011.d

Date : 26-MAY-2004 07:32

Client ID: LCS

Sample Info: LCS,,109-04

Purge Volume: 20.0

Column phase: DB624

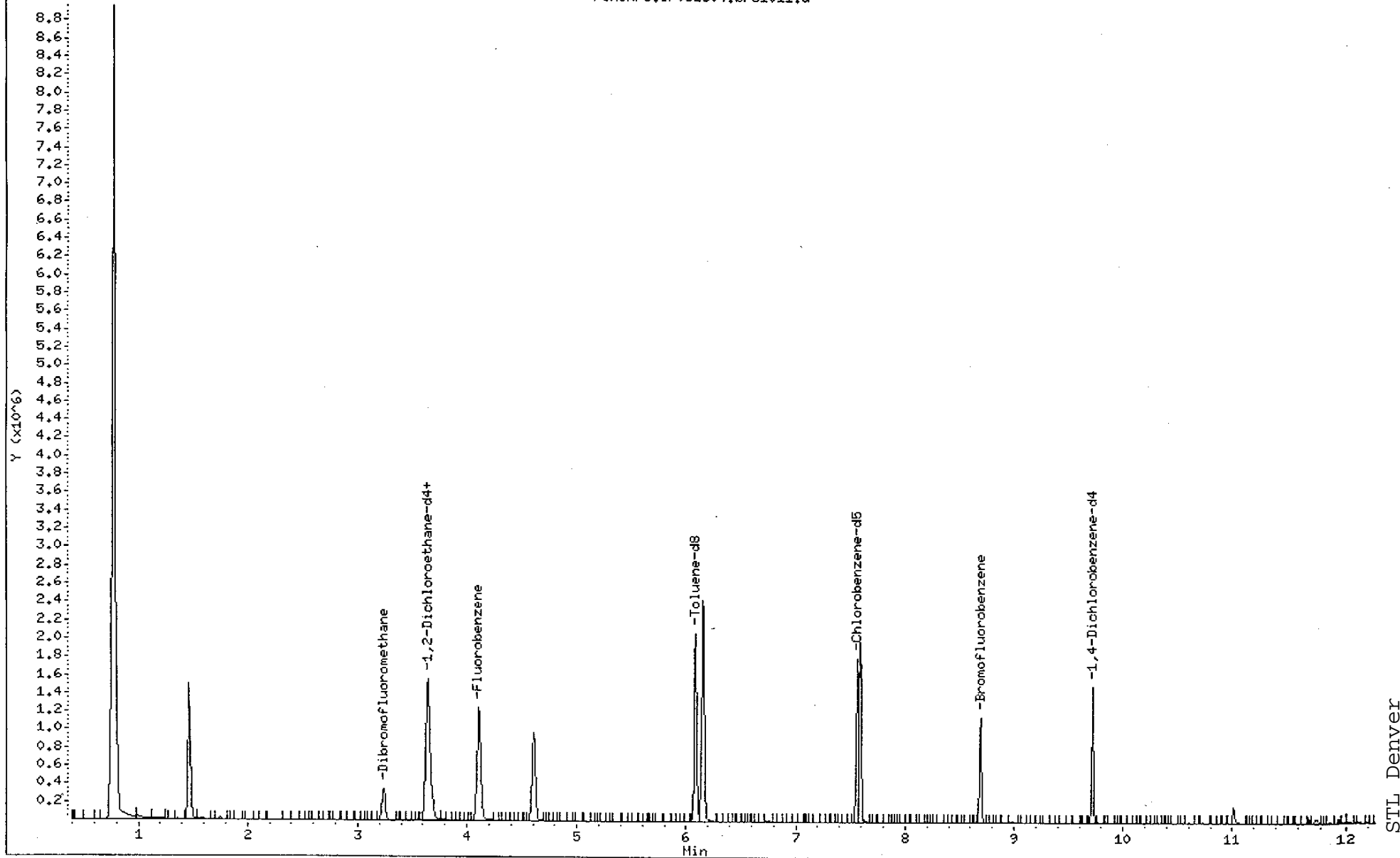
Instrument: C.i

Operator: yanezj

Column diameter: 0.53

Page 6

/chem/C.i/052604.b/c1011.d



STL Denver

VOLATILE REPORT SW-846

Data file : /chem/C.i/052604.b/c1012.d  
Lab Smp Id: VBLK Client Smp ID: VBLK  
Inj Date : 26-MAY-2004 07:52  
Operator : yanezj Inst ID: C.i  
Smp Info : VBLK,,105/099-04  
Misc Info :  
Comment : Purge and Trap Analysis  
Method : /chem/C.i/052604.b/C-20ml-AQ.m  
Meth Date : 27-May-2004 05:39 yanezj Quant Type: ISTD  
Cal Date : 10-MAY-2004 20:33 Cal File: c0458.d  
Als bottle: 2  
Dil Factor: 1.00000  
Integrator: Falcon Compound Sublist: QK-01.sub  
Target Version: 3.40  
Processing Host: chemsv02

05/27/04  
JMY

Concentration Formula: Amt \* DF \* Vp/Vs

Name	Value	Description
DF	1.000	Dilution Factor
Vp	20.000	Final Purge Volume (ml)
Vs	20.000	Sample Volume (ml)

Compounds	QUANT SIG				RESPONSE	CONCENTRATIONS	
	MASS	RT	EXP RT	REL RT		ON-COLUMN	FINAL
*****	----	--	-----	-----	-----	( ug/L)	( ug/L)
* 56 Fluorobenzene	96	4.107	4.107	(1.000)	1362282	10.0000	
* 81 Chlorobenzene-d5	119	7.564	7.563	(1.000)	208155	10.0000	
* 107 1,4-Dichlorobenzene-d4	152	9.721	9.721	(1.000)	258069	10.0000	
\$ 48 Dibromofluoromethane	111	3.237	3.236	(0.788)	247425	8.56486	8.56486
\$ 52 1,2-Dichloroethane-d4	65	3.678	3.678	(0.896)	262152	8.49360	8.48360
\$ 69 Toluene-d8	98	6.083	6.083	(0.804)	1098205	9.24247	9.24247
\$ 93 Bromofluorobenzene	95	8.694	8.693	(1.149)	307464	8.58303	8.58303
1 dichlorodifluoromethane	85.00	Compound Not Detected.					
2 dichlorotetrafluoroethane	85.00	Compound Not Detected.					
3 Chloromethane	50.00	Compound Not Detected.					
4 Vinyl Chloride	62.00	Compound Not Detected.					
5 Ethylene Oxide	43.00	Compound Not Detected.					
6 Bromomethane	94.00	Compound Not Detected.					
7 Chloroethane	64.00	Compound Not Detected.					
8 Dichlorofluoromethane	67.00	Compound Not Detected.					
9 Trichlorofluoromethane	101.00	Compound Not Detected.					

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN	FINAL
	MASS					( ug/L)	( ug/L)
=====	=====	==	=====	=====	=====	=====	=====
10 Ethanol	45.00		Compound Not Detected.				
11 Ethyl Ether	59.00		Compound Not Detected.				
M 12 1,2-Dichloroethene (total)	96.00		Compound Not Detected.				
13 1,2-dichloro-1,1,2-trifluoroet	117.00		Compound Not Detected.				
14 2,2-dichloro-1,1,1-trifluoroet	83.00		Compound Not Detected.				
15 Acrolein	56.00		Compound Not Detected.				
16 Trichlorotrifluoroethane	151.00		Compound Not Detected.				
17 1,1-Dichloroethene	96.00		Compound Not Detected.				
M 18 Xylene (total)	106.00		Compound Not Detected.				
19 Acetone	43.00		Compound Not Detected.				
20 Iodomethane	142.00		Compound Not Detected.				
21 Carbon Disulfide	76.00		Compound Not Detected.				
22 2-Propanol	45.00		Compound Not Detected.				
23 Allyl Chloride	41.00		Compound Not Detected.				
24 Methyl acetate	43.00		Compound Not Detected.				
25 Acetonitrile	41.00		Compound Not Detected.				
26 Methylene Chloride	84	1.752	1.752	(0.427)	7194	0.23329	0.233293(a)
27 tert-Butyl alcohol	59.00		Compound Not Detected.				
28 Methyl t-butyl ether	73.00		Compound Not Detected.				
29 trans-1,2-Dichloroethene	96.00		Compound Not Detected.				
30 Acrylonitrile	53.00		Compound Not Detected.				
31 Hexane	57.00		Compound Not Detected.				
32 1,1-Dichloroethane	63.00		Compound Not Detected.				
33 Isopropyl ether	87.00		Compound Not Detected.				
34 Chloroprene	53.00		Compound Not Detected.				
35 Vinyl acetate	43.00		Compound Not Detected.				
36 ETBE	59.00		Compound Not Detected.				
37 2,2-Dichloropropane	77.00		Compound Not Detected.				
38 cis-1,2-Dichloroethene	96.00		Compound Not Detected.				
39 2-Butanone	43.00		Compound Not Detected.				
40 Ethyl Acetate	43.00		Compound Not Detected.				
41 Propionitrile	54.00		Compound Not Detected.				
42 Bromochloromethane	128.00		Compound Not Detected.				
43 Tetrahydrofuran	42.00		Compound Not Detected.				
44 Methacrylonitrile	41.00		Compound Not Detected.				
45 Chloroform	83.00		Compound Not Detected.				
46 Cyclohexane	56.00		Compound Not Detected.				
47 1,1,1-Trichloroethane	97.00		Compound Not Detected.				
49 Carbon Tetrachloride	117.00		Compound Not Detected.				
50 1,1-Dichloropropene	75.00		Compound Not Detected.				
51 Benzene	78.00		Compound Not Detected.				
53 Isobutanol	41.00		Compound Not Detected.				
54 1,2-Dichloroethane	62.00		Compound Not Detected.				
55 TAME	73.00		Compound Not Detected.				
57 Trichloroethene	130.00		Compound Not Detected.				
58 Methyl cyclohexane	55.00		Compound Not Detected.				
59 n-Butanol	56.00		Compound Not Detected.				

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN ( ug/L)	FINAL ( ug/L)
=====	=====	==	=====	=====	=====	=====	=====
60 1,2-Dichloropropane	63.00		Compound	Not	Detected.		
61 2-Pentanone	43.00		Compound	Not	Detected.		
62 Dibromomethane	93.00		Compound	Not	Detected.		
63 1,4-Dioxane	88.00		Compound	Not	Detected.		
64 Methyl Methacrylate	100.00		Compound	Not	Detected.		
65 Bromodichloromethane	83.00		Compound	Not	Detected.		
66 2-nitropropane	41.00		Compound	Not	Detected.		
67 2-Chloroethyl vinyl ether	63.00		Compound	Not	Detected.		
68 cis-1,3-Dichloropropene	75.00		Compound	Not	Detected.		
70 4-Methyl-2-pentanone	43.00		Compound	Not	Detected.		
71 Toluene	91.00		Compound	Not	Detected.		
72 trans-1,3-Dichloropropene	75.00		Compound	Not	Detected.		
73 Ethyl methacrylate	69.00		Compound	Not	Detected.		
74 1,1,2-Trichloroethane	97.00		Compound	Not	Detected.		
75 Tetrachloroethene	164.00		Compound	Not	Detected.		
76 1,3-Dichloropropane	76.00		Compound	Not	Detected.		
77 Tetrahydrothiophene	60.00		Compound	Not	Detected.		
78 2-Hexanone	43.00		Compound	Not	Detected.		
79 Dibromochloromethane	129.00		Compound	Not	Detected.		
80 1,2-Dibromoethane	107.00		Compound	Not	Detected.		
82 Chlorobenzene	112.00		Compound	Not	Detected.		
83 1-Chlorohexane	91.00		Compound	Not	Detected.		
84 1,1,1,2-Tetrachloroethane	131.00		Compound	Not	Detected.		
85 Ethylbenzene	106.00		Compound	Not	Detected.		
86 m and p-Xylene	106.00		Compound	Not	Detected.		
87 o-Xylene	106.00		Compound	Not	Detected.		
88 Styrene	104.00		Compound	Not	Detected.		
89 Bromoform	173.00		Compound	Not	Detected.		
90 isopropyl benzene	105.00		Compound	Not	Detected.		
91 Cyclohexanone	55.00		Compound	Not	Detected.		
92 cis-1,4-dichloro-2-butene	53.00		Compound	Not	Detected.		
94 Bromobenzene	156.00		Compound	Not	Detected.		
95 1,1,2,2-Tetrachloroethane	83.00		Compound	Not	Detected.		
96 1,2,3-Trichloropropane	110.00		Compound	Not	Detected.		
97 n-Propylbenzene	120.00		Compound	Not	Detected.		
98 t-1,4-Dichloro-2-butene	53.00		Compound	Not	Detected.		
99 2-Chlorotoluene	126.00		Compound	Not	Detected.		
100 4-Chlorotoluene	126.00		Compound	Not	Detected.		
101 1,3,5-Trimethylbenzene	105.00		Compound	Not	Detected.		
102 tert-Butylbenzene	119.00		Compound	Not	Detected.		
103 1,2,4-Trimethylbenzene	105.00		Compound	Not	Detected.		
104 sec-Butylbenzene	134.00		Compound	Not	Detected.		
105 m-Dichlorobenzene	146.00		Compound	Not	Detected.		
106 4-Isopropyltoluene	119.00		Compound	Not	Detected.		
108 p-dichlorobenzene	146.00		Compound	Not	Detected.		
109 1,2,3-Trimethylbenzene	105.00		Compound	Not	Detected.		
110 o-Dichlorobenzene	146.00		Compound	Not	Detected.		

Compounds	QUANT SIG						CONCENTRATIONS	
		RT	EXP RT	REL RT	RESPONSE		ON-COLUMN	FINAL
	MASS						( ug/L)	( ug/L)
-----	----	--	-----	-----	-----		-----	-----
111 n-Butylbenzene	91.00		Compound Not Detected.					
112 1,2-Dibromo-3-chloropropane	157.00		Compound Not Detected.					
113 1,2,4-Trichlorobenzene	180.00		Compound Not Detected.					
114 Hexachlorobutadiene	225.00		Compound Not Detected.					
115 Naphthalene	128.00		Compound Not Detected.					
116 1,2,3-Trichlorobenzene	180.00		Compound Not Detected.					

QC Flag Legend

a - Target compound detected but, quantitated amount  
Below Limit Of Quantitation(BLOQ).



STL Denver

VOLATILE REPORT SW-846

Data file : /chem/C.i/052604.b/c1012.d

Lab Smp Id: VBLKClient Smp ID: VBLK

Inj Date : 26-MAY-2004 07:52

Operator : yanezjInst ID: C.i

Smp Info : VBLK,,105/099-04

Misc Info :

Comment : Purge and Trap Analysis

Method : /chem/C.i/052604.b/C-20ml-AQ.m

Meth Date : 27-May-2004 05:39 yanezjQuant Type: ISTD

Cal Date : 10-MAY-2004 20:33Cal File: c0458.d

Als bottle: 2

Dil Factor: 1.00000

Integrator: FalconCompound Sublist: QK-01.sub

Target Version: 3.40

Processing Host: chemsv02

Concentration Formula: Amt \* DF \* Vp/Vs

Name	Value	Description
DF	1.000	Dilution Factor
Vp	20.000	Final Purge Volume (ml)
Vs	20.000	Sample Volume (ml)

ISTD	RT	AREA	AMOUNT
=====	=====	=====	=====
* 107 1,4-Dichlorobenzene-d4	9.721	2005988	10.000

CONCENTRATIONS					QUANT		
RT	AREA	ON-COL( ug/L)	FINAL( ug/L)	QUAL	LIBRARY	LIB ENTRY	CPND #
----	----	-----	-----	----	-----	-----	-----
Acetic acid, 2-ethylhexyl ester					CAS #: 103-09-3		
11.014	581148	2.89706618	2.89707	86	NBS75K.1	15793	107
Unknown					CAS #:		
11.697	234363	1.16831706	1.16832	0		0	107

STL Denver

INTERNAL STANDARD COMPOUNDS  
AREA AND RT SUMMARY

Instrument ID: C.i  
Lab File ID: c1012.d  
Lab Smp Id: VBLK  
Analysis Type: VOA  
Quant Type: ISTD  
Operator: yanezj  
Method File: /chem/C.i/052604.b/C-20ml-AQ.m  
Misc Info:

Calibration Date: 05/26/4  
Calibration Time: 0712  
Client Smp ID: VBLK  
Level: LOW  
Sample Type: WATER

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
56 Fluorobenzene	1833520	916760	3667040	1362282	-25.70
81 Chlorobenzene-d5	260102	130051	520204	208155	-19.97
107 1,4-Dichlorobenze	288639	144320	577278	258069	-10.59

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
56 Fluorobenzene	4.11	3.61	4.61	4.11	0.01
81 Chlorobenzene-d5	7.56	7.06	8.06	7.56	0.01
107 1,4-Dichlorobenze	9.72	9.22	10.22	9.72	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.

STL Denver

RECOVERY REPORT

Client Name: Client SDG: 052604  
Sample Matrix: LIQUID Fraction: VOA  
Lab Smp Id: VBLK Client Smp ID: VBLK  
Level: LOW Operator: yanezj  
Data Type: MS DATA SampleType: SAMPLE  
SpikeList File: dcs-h20.spk Quant Type: ISTD  
Sublist File: QK-01.sub  
Method File: /chem/C.i/052604.b/C-20ml-AQ.m  
Misc Info:

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
\$ 48 Dibromofluorometha	8.75000	8.56486	97.88	76-116
\$ 52 1,2-Dichloroethane	8.75000	8.48360	96.96	59-129
\$ 69 Toluene-d8	8.75000	9.24247	105.63	76-116
\$ 93 Bromofluorobenzene	8.75000	8.58303	98.09	74-114

Data File: /chem/C.i/052604.b/c1012.d

Date : 26-MAY-2004 07:52

Client ID: VBLK

Sample Info: VBLK,,105/099-04

Purge Volume: 20.0

Column phase: DB624

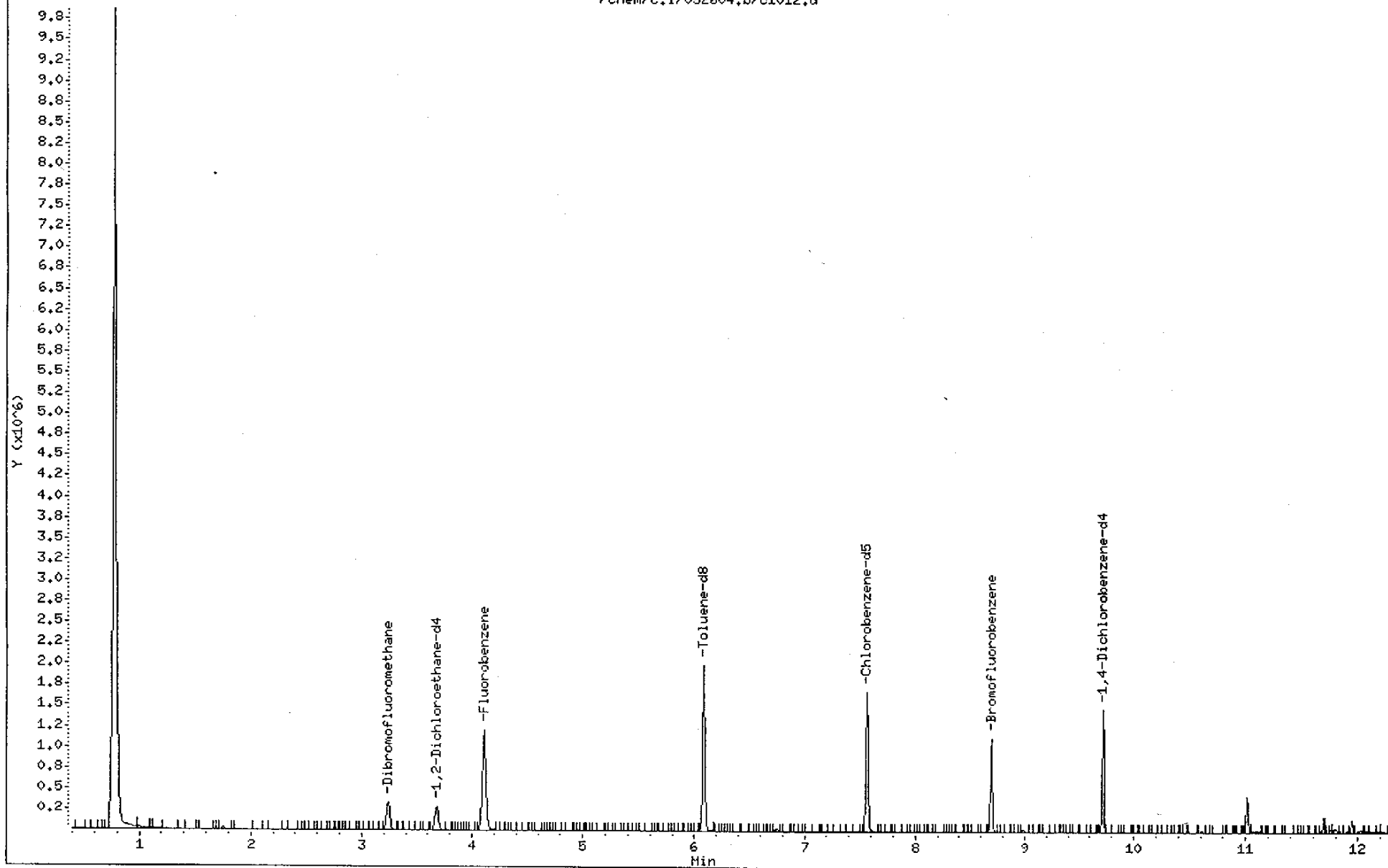
Instrument: C.i

Operator: yanezj

Column diameter: 0.53

Page 8

/chem/C.i/052604.b/c1012.d



Date : 26-MAY-2004 07:52

Client ID: VBLK

Instrument: C.i

Sample Info: VBLK,,105/099-04

Purge Volume: 20.0

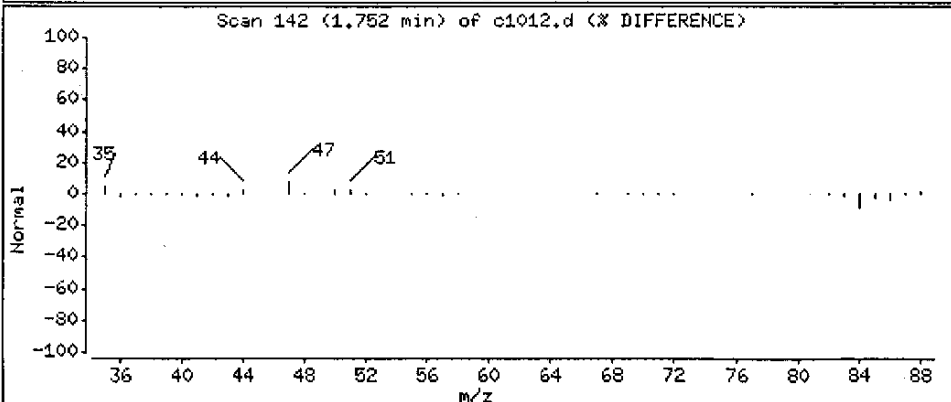
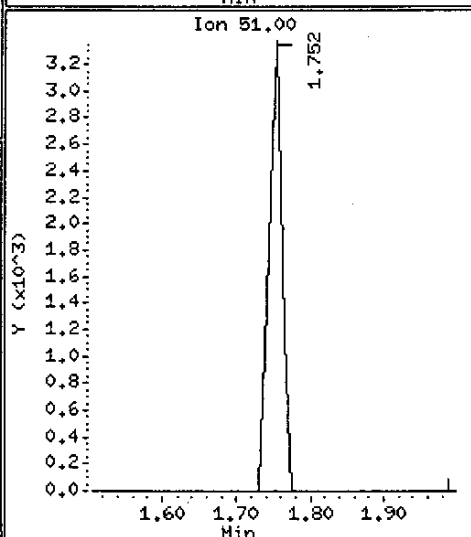
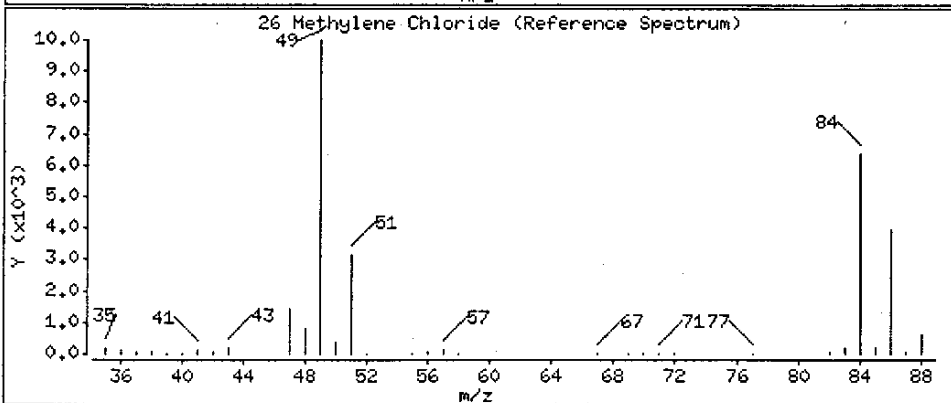
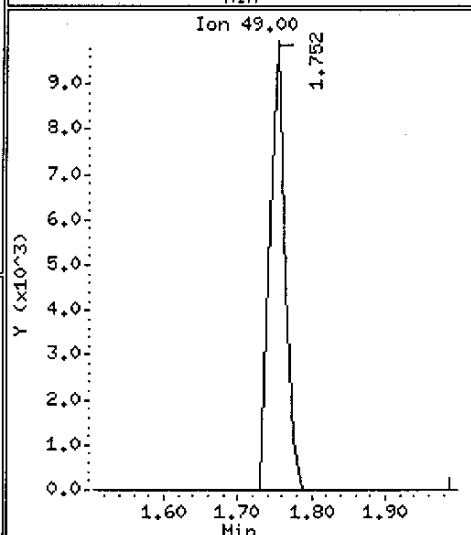
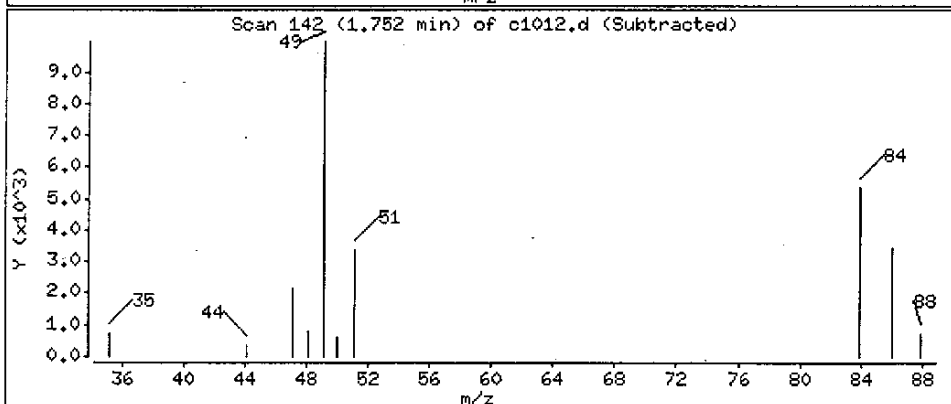
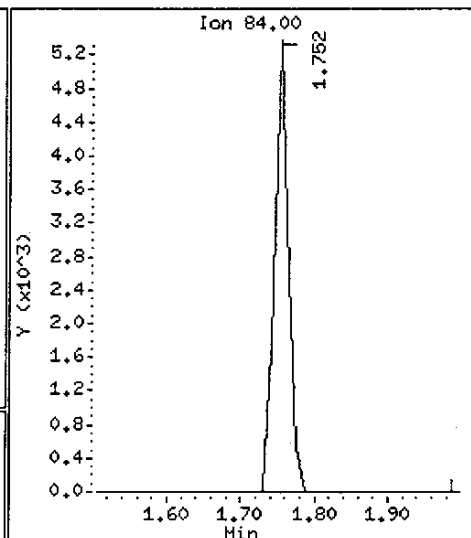
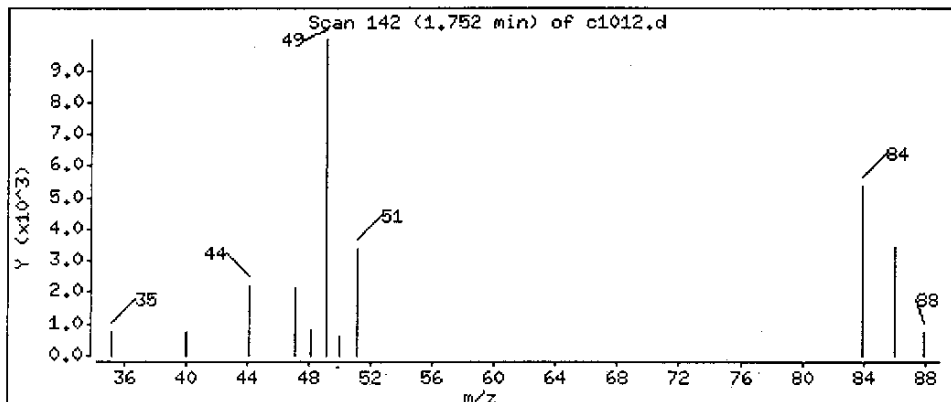
Operator: yanezj

Column phase: DB624

Column diameter: 0.53

26 Methylene Chloride

Concentration: 0.233293 ug/L



Date : 26-MAY-2004 07:52

Client ID: VBLK

Instrument: C.i

Sample Info: VBLK,,105/099-04

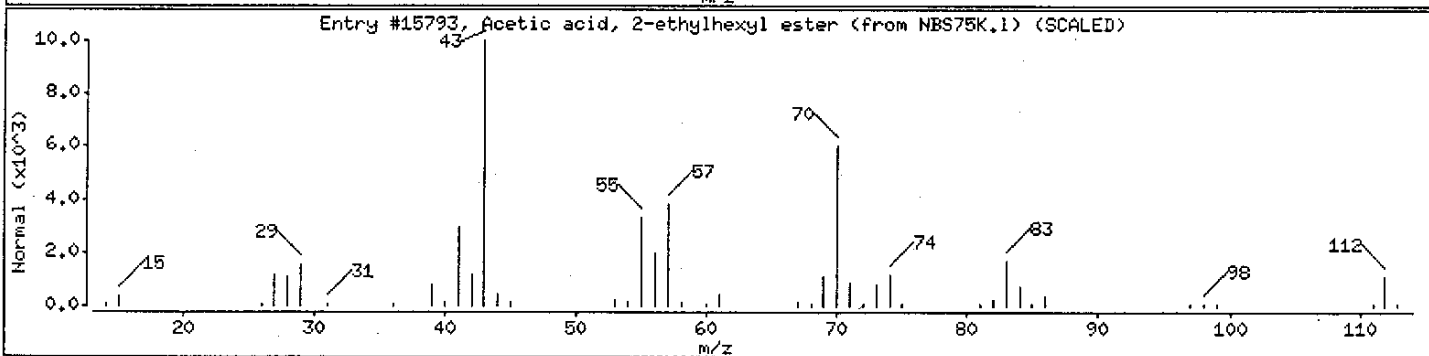
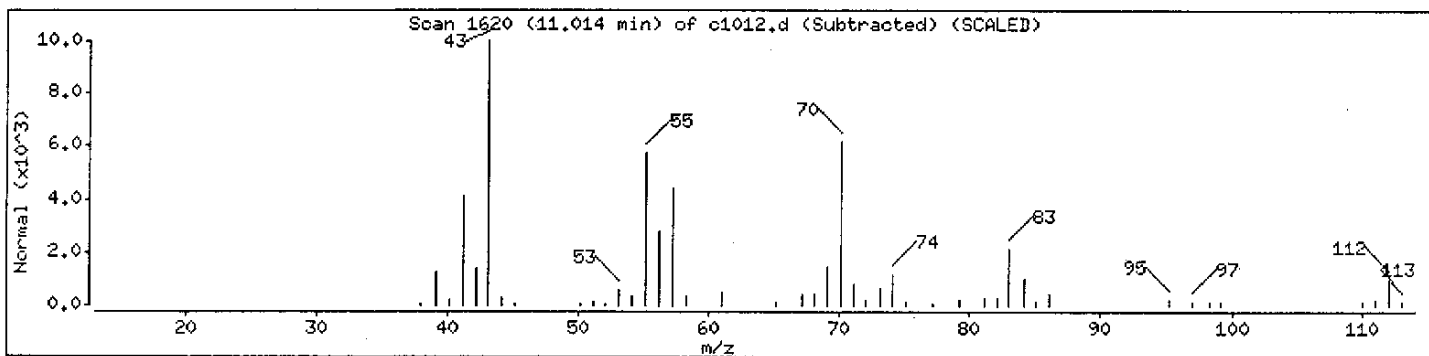
Purge Volume: 20.0

Operator: yanezj

Column phase: DB624

Column diameter: 0.53

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Acetic acid, 2-ethylhexyl ester	103-09-3	NBS75K.1	15793	86	C10H20O2	172



Date : 26-MAY-2004 07:52

Client ID: VBLK

Instrument: C.i

Sample Info: VBLK,,105/099-04

Purge Volume: 20.0

Operator: yanezj

Column phase: DB624

Column diameter: 0.53

Library Search Compound Match

CAS Number

Library

Entry

Quality

Formula

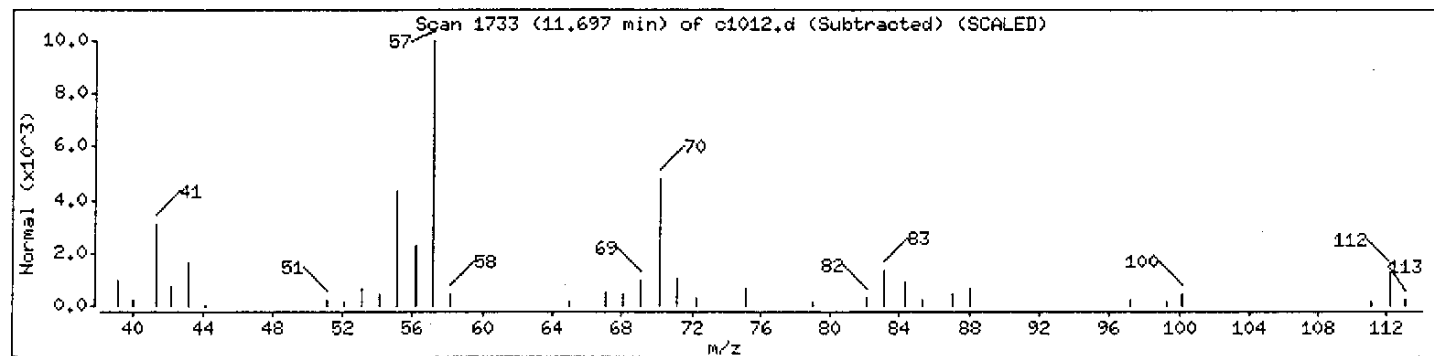
Weight

Unknown

0

0

0



## Matrix Spike Report

## UNSPIKED SAMPLE

Data File : /chem/C.i/052604.b/c1013.d  
Samp Info : GGA9C1AA,0.01,D4E140372-004  
Inj Date : 26-MAY-2004 08:22  
Sample Amt : 0mL

## SPIKE SAMPLE

Data File : /chem/C.i/052604.b/c1016.d  
Samp Info : MS,0.01,D4E140372-004MS  
Inj Date : 26-MAY-2004 09:21  
Sample Amt : 0mL

## SPIKE DUPLICATE SAMPLE

Data File : /chem/C.i/052604.b/c1017.d  
Samp Info : MSD,0.01,D4E140372-004MSD  
Inj Date : 26-MAY-2004 09:41  
Sample Amt : 0mL

Sample	Concentration				%Recovery							
	MS		MSD		Measured				Limits		RPD	
	Measured	Spiked	Measured	Spiked	Measured	MS	MSD	Min	Max	Mes	Max	
=====												
1,1-Dichloroethene	0.0000	20000.0000	21523.5000	20000.0000	20605.5000	108	103	67	125	4	20	
Trichloroethene	0.0000	20000.0000	18107.7000	20000.0000	18255.6000	91	91	80	123	1	20	
Benzene	0.0000	20000.0000	18404.5000	20000.0000	18714.1000	92	94	75	116	2	20	
Toluene	0.0000	20000.0000	18979.5000	20000.0000	19439.4000	95	97	74	115	2	20	
Chlorobenzene	88521.2000	20000.0000	104779.0000	20000.0000	107872.0000	81	97	77	117	3	20	

100.0 Percent of recoveries are within control limits.

100.0 Percent of RPD values are within control limits.



STL Denver

VOLATILE REPORT SW-846

Data file : /chem/C.i/052604.b/c1019.d  
Lab Smp Id: GGJX41AA Client Smp ID: 01-MW-01  
Inj Date : 26-MAY-2004 10:22  
Operator : yanezj Inst ID: C.i  
Smp Info : GGJX41AA,,D4E190262-001  
Misc Info :  
Comment : Purge and Trap Analysis  
Method : /chem/C.i/052604.b/C-20ml-AQ.m  
Meth Date : 27-May-2004 05:39 yanezj Quant Type: ISTD  
Cal Date : 10-MAY-2004 20:33 Cal File: c0458.d  
Als bottle: 2  
Dil Factor: 1.00000  
Integrator: Falcon Compound Sublist: QK-01.sub  
Target Version: 3.40  
Processing Host: chemsv02

05/27/04  
JMM

Concentration Formula: Amt \* DF \* Vp/Vs

Name	Value	Description
DF	1.000	Dilution Factor
Vp	20.000	Final Purge Volume (ml)
Vs	20.000	Sample Volume (ml)

Compounds	QUANT SIG				CONCENTRATIONS	
	MASS	RT	EXP RT	REL RT	ON-COLUMN ( ug/L)	FINAL ( ug/L)
* 56 Fluorobenzene	96	4.102	4.107	(1.000)	1350463	10.0000
* 81 Chlorobenzene-d5	119	7.564	7.563	(1.000)	203849	10.0000
* 107 1,4-Dichlorobenzene-d4	152	9.722	9.721	(1.000)	255054	10.0000
\$ 48 Dibromofluoromethane	111	3.231	3.236	(0.788)	244318	8.53132
\$ 52 1,2-Dichloroethane-d4	65	3.679	3.678	(0.897)	249422	8.14228
\$ 69 Toluene-d8	98	6.078	6.083	(0.803)	1058719	9.09837
\$ 93 Bromofluorobenzene	95	8.688	8.693	(1.149)	299379	8.53387
1 dichlorodifluoromethane	85.00	Compound Not Detected.				
2 dichlorotetrafluoroethane	85.00	Compound Not Detected.				
3 Chloromethane	50.00	Compound Not Detected.				
4 Vinyl Chloride	62.00	Compound Not Detected.				
5 Ethylene Oxide	43.00	Compound Not Detected.				
6 Bromomethane	94.00	Compound Not Detected.				
7 Chloroethane	64.00	Compound Not Detected.				
8 Dichlorofluoromethane	67.00	Compound Not Detected.				
9 Trichlorofluoromethane	101.00	Compound Not Detected.				

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN	FINAL
	MASS					( ug/L)	( ug/L)
=====	====	==	=====	=====	=====	=====	=====
10 Ethanol	45.00				Compound Not Detected.		
11 Ethyl Ether	59.00				Compound Not Detected.		
M 12 1,2-Dichloroethene (total)	96.00				Compound Not Detected.		
13 1,2-dichloro-1,1,2-trifluoroet	117.00				Compound Not Detected.		
14 2,2-dichloro-1,1,1-trifluoroet	83.00				Compound Not Detected.		
15 Acrolein	56.00				Compound Not Detected.		
16 Trichlorotrifluoroethane	151.00				Compound Not Detected.		
17 1,1-Dichloroethene	96.00				Compound Not Detected.		
M 18 Xylene (total)	106.00				Compound Not Detected.		
19 Acetone	43.00				Compound Not Detected.		
20 Iodomethane	142.00				Compound Not Detected.		
21 Carbon Disulfide	76.00				Compound Not Detected.		
22 2-Propanol	45.00				Compound Not Detected.		
23 Allyl Chloride	41.00				Compound Not Detected.		
24 Methyl acetate	43.00				Compound Not Detected.		
25 Acetonitrile	41.00				Compound Not Detected.		
26 Methylene Chloride	84	1.753	1.752	(0.427)	12176	0.39831	0.398309(a)
27 tert-Butyl alcohol	59.00				Compound Not Detected.		
28 Methyl t-butyl ether	73.00				Compound Not Detected.		
29 trans-1,2-Dichloroethene	96.00				Compound Not Detected.		
30 Acrylonitrile	53.00				Compound Not Detected.		
31 Hexane	57.00				Compound Not Detected.		
32 1,1-Dichloroethane	63.00				Compound Not Detected.		
33 Isopropyl ether	87.00				Compound Not Detected.		
34 Chloroprene	53.00				Compound Not Detected.		
35 Vinyl acetate	43.00				Compound Not Detected.		
36 ETBE	59.00				Compound Not Detected.		
37 2,2-Dichloropropane	77.00				Compound Not Detected.		
38 cis-1,2-Dichloroethene	96.00				Compound Not Detected.		
39 2-Butanone	43.00				Compound Not Detected.		
40 Ethyl Acetate	43.00				Compound Not Detected.		
41 Propionitrile	54.00				Compound Not Detected.		
42 Bromochloromethane	128.00				Compound Not Detected.		
43 Tetrahydrofuran	42.00				Compound Not Detected.		
44 Methacrylonitrile	41.00				Compound Not Detected.		
45 Chloroform	83.00				Compound Not Detected.		
46 Cyclohexane	56.00				Compound Not Detected.		
47 1,1,1-Trichloroethane	97.00				Compound Not Detected.		
49 Carbon Tetrachloride	117.00				Compound Not Detected.		
50 1,1-Dichloropropene	75.00				Compound Not Detected.		
51 Benzene	78.00				Compound Not Detected.		
53 Isobutanol	41.00				Compound Not Detected.		
54 1,2-Dichloroethane	62.00				Compound Not Detected.		
55 TAME	73.00				Compound Not Detected.		
57 Trichloroethene	130.00				Compound Not Detected.		
58 Methyl cyclohexane	55.00				Compound Not Detected.		
59 n-Butanol	56.00				Compound Not Detected.		

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN	FINAL
	MASS					( ug/L)	( ug/L)
=====	=====	==	=====	=====	=====	=====	=====
60 1,2-Dichloropropane	63.00				Compound Not Detected.		
61 2-Pentanone	43.00				Compound Not Detected.		
62 Dibromomethane	93.00				Compound Not Detected.		
63 1,4-Dioxane	88	5.147	5.146	(1.255)	26815	256.032	256.032
64 Methyl Methacrylate	100.00				Compound Not Detected.		
65 Bromodichloromethane	83.00				Compound Not Detected.		
66 2-nitropropane	41.00				Compound Not Detected.		
67 2-Chloroethyl vinyl ether	63.00				Compound Not Detected.		
68 cis-1,3-Dichloropropene	75.00				Compound Not Detected.		
70 4-Methyl-2-pentanone	43.00				Compound Not Detected.		
71 Toluene	91.00				Compound Not Detected.		
72 trans-1,3-Dichloropropene	75.00				Compound Not Detected.		
73 Ethyl methacrylate	69.00				Compound Not Detected.		
74 1,1,2-Trichloroethane	97.00				Compound Not Detected.		
75 Tetrachloroethene	164.00				Compound Not Detected.		
76 1,3-Dichloropropane	76.00				Compound Not Detected.		
77 Tetrahydrothiophene	60.00				Compound Not Detected.		
78 2-Hexanone	43.00				Compound Not Detected.		
79 Dibromochloromethane	129.00				Compound Not Detected.		
80 1,2-Dibromoethane	107.00				Compound Not Detected.		
82 Chlorobenzene	112.00				Compound Not Detected.		
83 1-Chlorohexane	91.00				Compound Not Detected.		
84 1,1,1,2-Tetrachloroethane	131.00				Compound Not Detected.		
85 Ethylbenzene	106.00				Compound Not Detected.		
86 m and p-Xylene	106.00				Compound Not Detected.		
87 o-Xylene	106.00				Compound Not Detected.		
88 Styrene	104.00				Compound Not Detected.		
89 Bromoform	173.00				Compound Not Detected.		
90 isopropyl benzene	105.00				Compound Not Detected.		
91 Cyclohexanone	55.00				Compound Not Detected.		
92 cis-1,4-dichloro-2-butene	53.00				Compound Not Detected.		
94 Bromobenzene	156.00				Compound Not Detected.		
95 1,1,2,2-Tetrachloroethane	83.00				Compound Not Detected.		
96 1,2,3-Trichloropropane	110.00				Compound Not Detected.		
97 n-Propylbenzene	120.00				Compound Not Detected.		
98 t-1,4-Dichloro-2-butene	53.00				Compound Not Detected.		
99 2-Chlorotoluene	126.00				Compound Not Detected.		
100 4-Chlorotoluene	126.00				Compound Not Detected.		
101 1,3,5-Trimethylbenzene	105.00				Compound Not Detected.		
102 tert-Butylbenzene	119.00				Compound Not Detected.		
103 1,2,4-Trimethylbenzene	105.00				Compound Not Detected.		
104 sec-Butylbenzene	134.00				Compound Not Detected.		
105 m-Dichlorobenzene	146.00				Compound Not Detected.		
106 4-Isopropyltoluene	119.00				Compound Not Detected.		
108 p-dichlorobenzene	146.00				Compound Not Detected.		
109 1,2,3-Trimethylbenzene	105.00				Compound Not Detected.		
110 o-Dichlorobenzene	146.00				Compound Not Detected.		

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN	FINAL
	MASS					( ug/L)	( ug/L)
=====	====	==	=====	=====	=====	=====	=====
111 n-Butylbenzene	91.00		Compound	Not	Detected.		
112 1,2-Dibromo-3-chloropropane	157.00		Compound	Not	Detected.		
113 1,2,4-Trichlorobenzene	180.00		Compound	Not	Detected.		
114 Hexachlorobutadiene	225.00		Compound	Not	Detected.		
115 Naphthalene	128.00		Compound	Not	Detected.		
116 1,2,3-Trichlorobenzene	180.00		Compound	Not	Detected.		

QC Flag Legend

a - Target compound detected but, quantitated amount  
Below Limit Of Quantitation(BLOQ).

STL Denver

VOLATILE REPORT SW-846

Data file : /chem/C.i/052604.b/c1019.d  
Lab Smp Id: GGJX41AA  
Inj Date : 26-MAY-2004 10:22  
Operator : yanezj  
Smp Info : GGJX41AA,,D4E190262-001  
Misc Info :  
Comment : Purge and Trap Analysis  
Method : /chem/C.i/052604.b/C-20ml-AQ.m  
Meth Date : 27-May-2004 05:39 yanezj  
Cal Date : 10-MAY-2004 20:33  
Als bottle: 2  
Dil Factor: 1.00000  
Integrator: Falcon  
Target Version: 3.40  
Processing Host: chemsv02

Client Smp ID: 01-MW-01  
Inst ID: C.i  
Quant Type: ISTD  
Cal File: c0458.d  
Compound Sublist: QK-01.sub

Concentration Formula: Amt \* DF \* Vp/Vs

Name	Value	Description
DF	1.000	Dilution Factor
Vp	20.000	Final Purge Volume (ml)
Vs	20.000	Sample Volume (ml)

ISTD	RT	AREA	AMOUNT
=====	=====	=====	=====
* 81 Chlorobenzene-d5	7.564	2631416	10.000
* 107 1,4-Dichlorobenzene-d4	9.722	1986922	10.000

CONCENTRATIONS					QUANT		
RT	AREA	ON-COL( ug/L)	FINAL( ug/L)	QUAL	LIBRARY	LIB ENTRY	CPND #
----	----	-----	-----	----	-----	-----	-----
Cyclotrisiloxane, hexamethyl-					CAS #: 541-05-9		
6.742	381918	1.45137827	1.45138	80	NBS75K.1	27918	81
Acetic acid, 2-ethylhexyl ester					CAS #: 103-09-3		
11.015	1458200	7.33898965	7.33899	86	NBS75K.1	15793	107

RT	CONCENTRATIONS				QUANT		CPND #
	AREA	ON-COL( ug/L)	FINAL( ug/L)	QUAL	LIBRARY	LIB ENTRY	
====	====	=====	=====	====	=====	=====	=====
Unknown				CAS #:			
11.698	945732	4.75978423	4.75978	0		0	107

STL Denver

INTERNAL STANDARD COMPOUNDS  
AREA AND RT SUMMARY

Instrument ID: C.i  
Lab File ID: c1019.d  
Lab Smp Id: GGJX41AA  
Analysis Type: VOA  
Quant Type: ISTD  
Operator: yanezj  
Method File: /chem/C.i/052604.b/C-20ml-AQ.m  
Misc Info:

Calibration Date: 05/26/4  
Calibration Time: 0712  
Client Smp ID: 01-MW-01  
Level: LOW  
Sample Type: WATER

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
56 Fluorobenzene	1833520	916760	3667040	1350463	-26.35
81 Chlorobenzene-d5	260102	130051	520204	203849	-21.63
107 1,4-Dichlorobenze	288639	144320	577278	255054	-11.64

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
56 Fluorobenzene	4.11	3.61	4.61	4.10	-0.12
81 Chlorobenzene-d5	7.56	7.06	8.06	7.56	0.01
107 1,4-Dichlorobenze	9.72	9.22	10.22	9.72	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.

STL Denver

RECOVERY REPORT

Client Name: Cabrera Services	Client SDG: D4E190262
Sample Matrix: LIQUID	Fraction: VOA
Lab Smp Id: GGJX41AA	Client Smp ID: 01-MW-01
Level: LOW	Operator: yanezj
Data Type: MS DATA	SampleType: SAMPLE
SpikeList File: dcs-h20.spk	Quant Type: ISTD
Sublist File: QK-01.sub	
Method File: /chem/C.i/052604.b/C-20ml-AQ.m	
Misc Info:	

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
\$ 48 Dibromofluorometha	8.75000	8.53132	97.50	76-116
\$ 52 1,2-Dichloroethane	8.75000	8.14228	93.05	59-129
\$ 69 Toluene-d8	8.75000	9.09837	103.98	76-116
\$ 93 Bromofluorobenzene	8.75000	8.53387	97.53	74-114



Data File: /chem/C.i/052604.b/c1019.d

Date : 26-MAY-2004 10:22

Client ID: 01-MW-01

Sample Info: GGJX41AA,,D4E190262-001

Purge Volume: 20.0

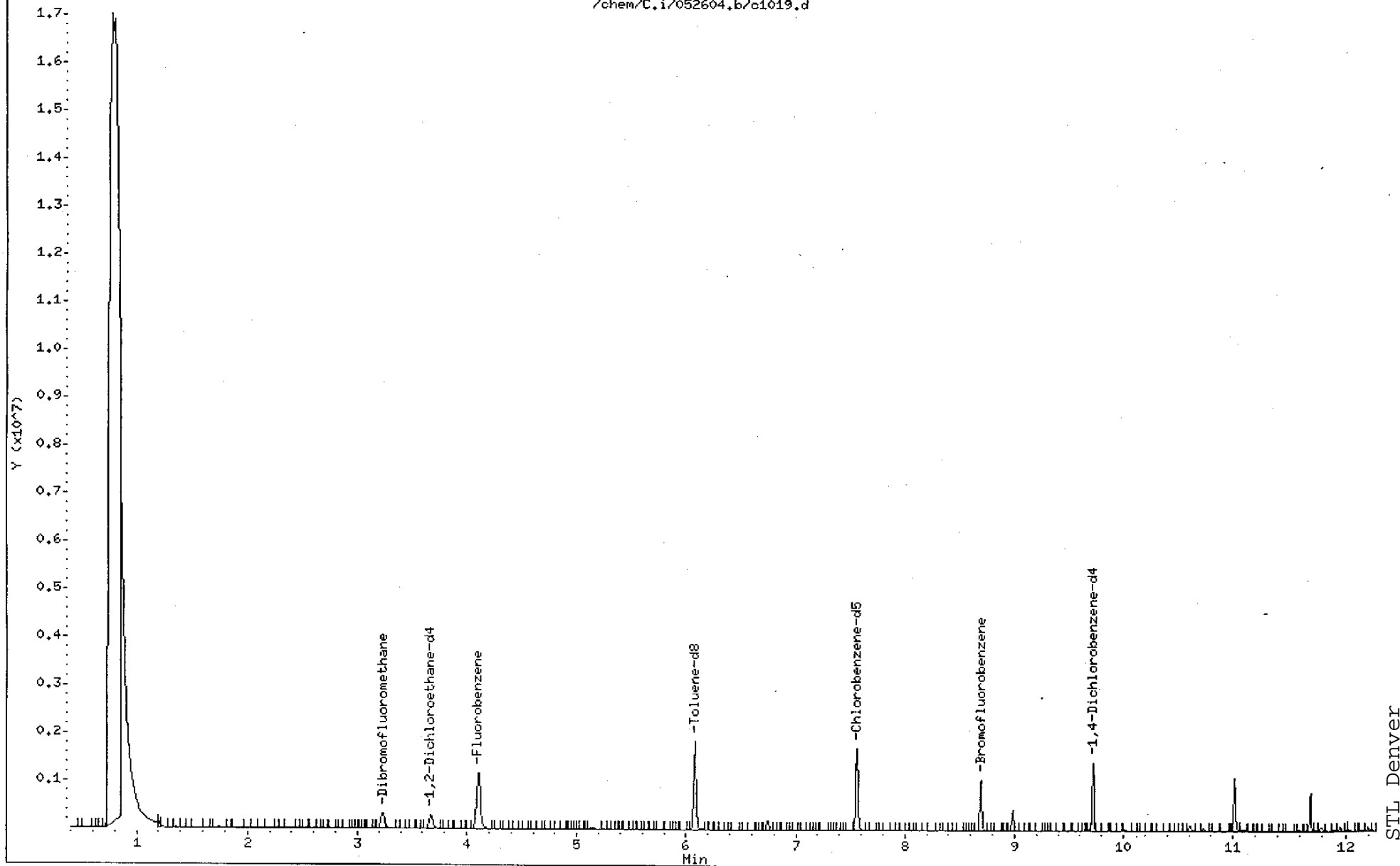
Column phase: DB624

Instrument: C.i

Operator: yanezj

Column diameter: 0.53

/chem/C.i/052604.b/c1019.d



Date : 26-MAY-2004 10:22

Client ID: 01-MW-01

Instrument: C.i

Sample Info: GGJX41AA,,D4E190262-001

Purge Volume: 20.0

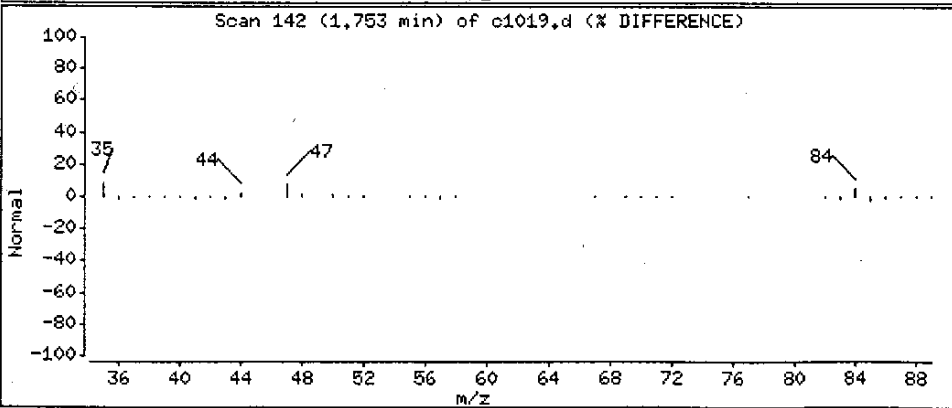
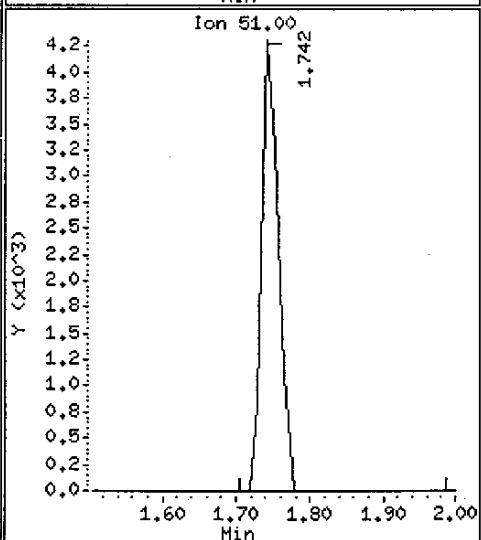
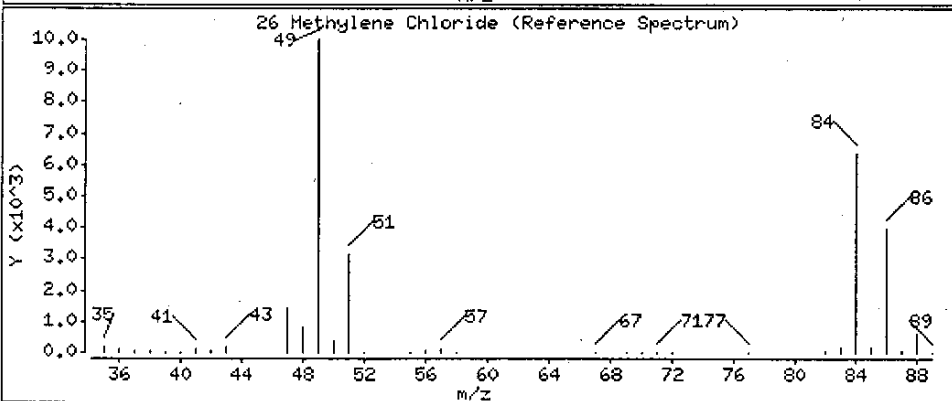
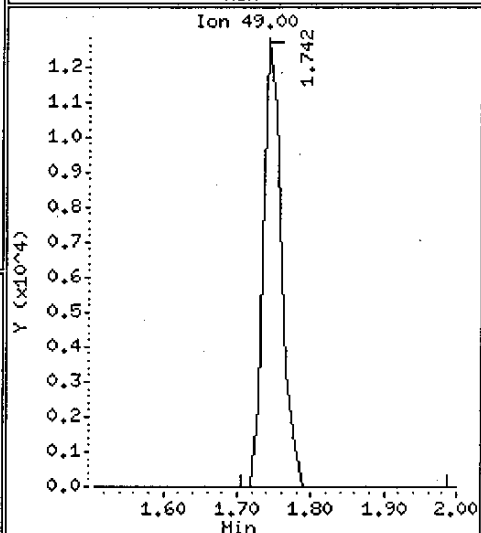
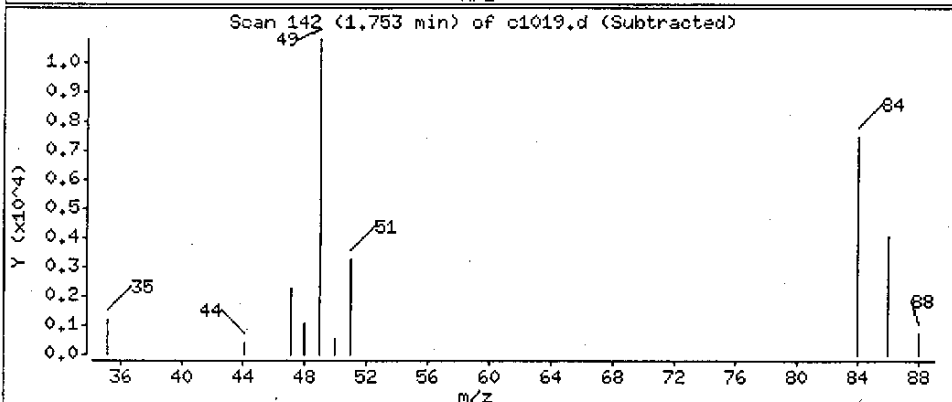
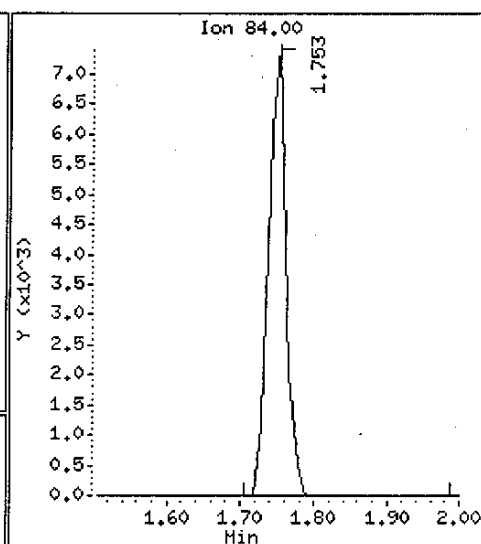
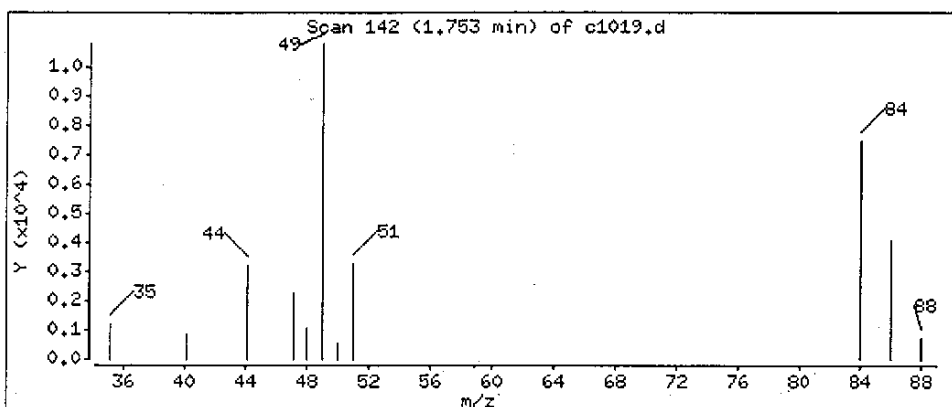
Operator: yanezj

Column phase: DB624

Column diameter: 0.53

26 Methylene Chloride

Concentration: 0.398309 ug/L



Date : 26-MAY-2004 10:22

Client ID: 01-MW-01

Instrument: C.i

Sample Info: GGJX41AA,,D4E190262-001

Purge Volume: 20.0

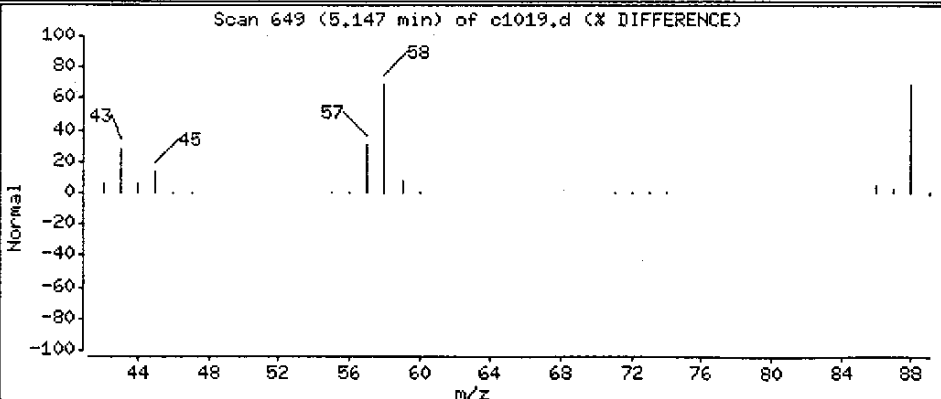
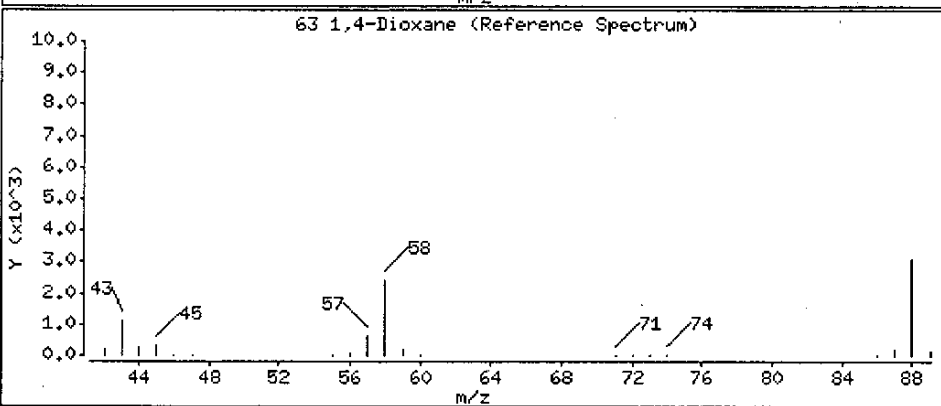
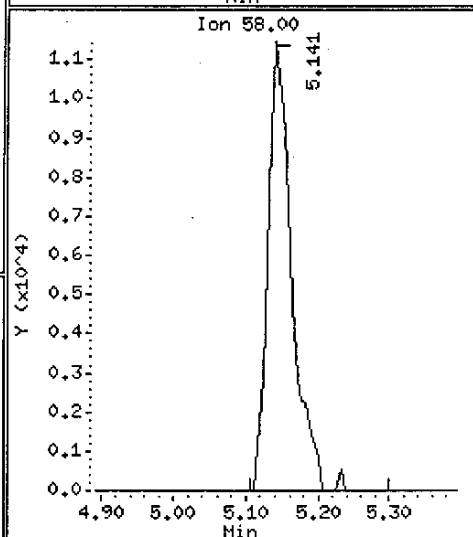
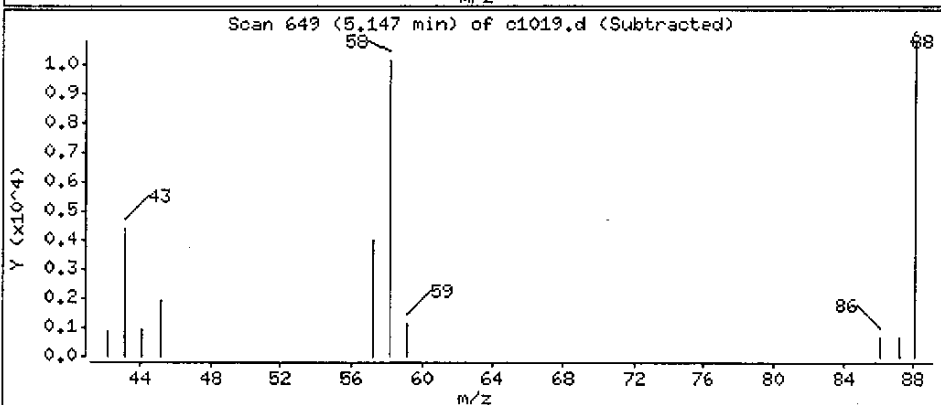
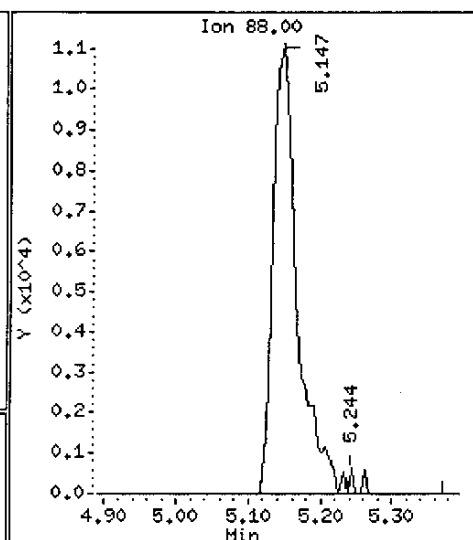
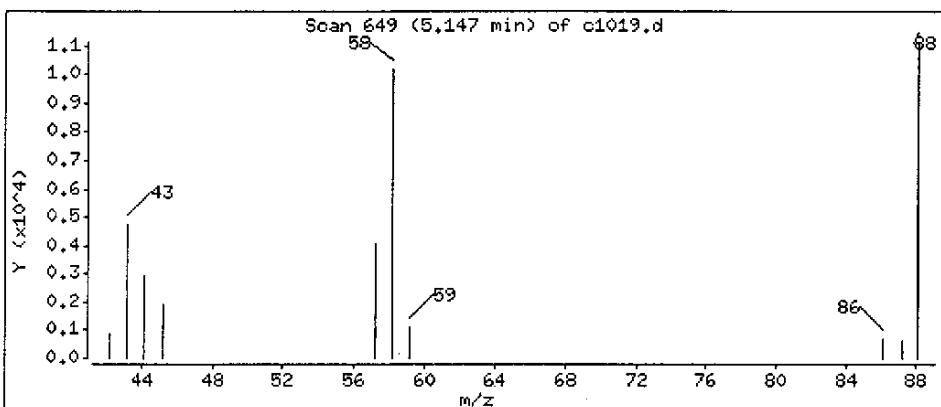
Operator: yanezj

Column phase: DB624

Column diameter: 0.53

63 1,4-Dioxane

Concentration: 256.032 ug/L



Date : 26-MAY-2004 10:22

Client ID: 01-MW-01

Instrument: C.i

Sample Info: GGJX41AA,,D4E190262-001

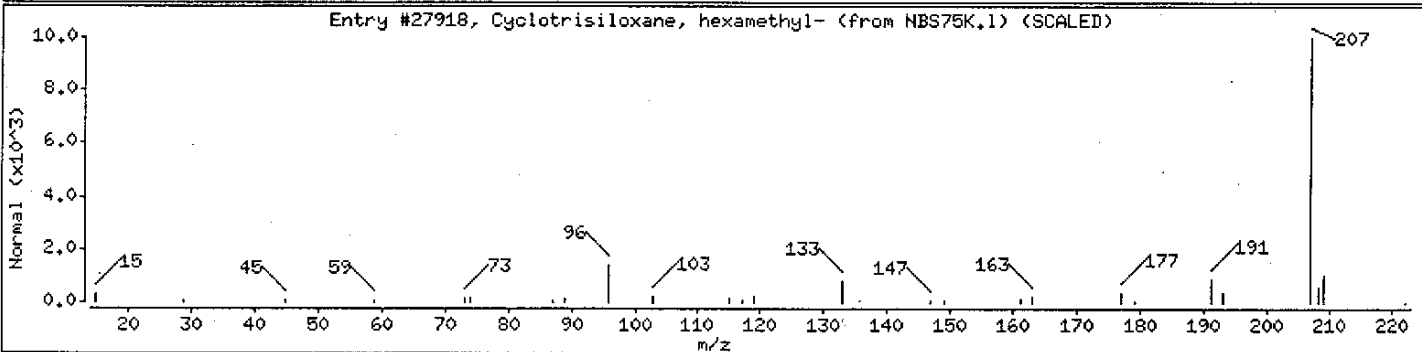
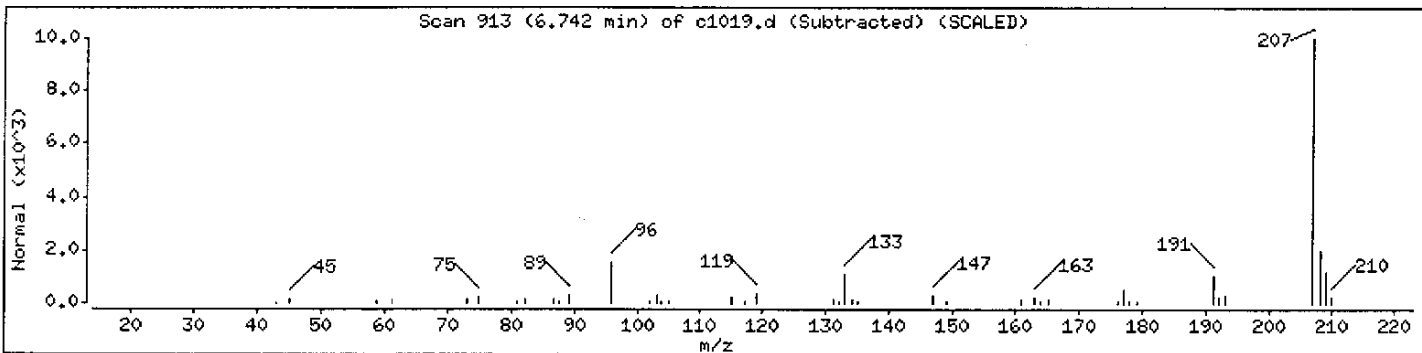
Purge Volume: 20.0

Operator: yanezj

Column phase: DB624

Column diameter: 0.53

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Cyclotrisiloxane, hexamethyl-	541-05-9	NBS75K.1	27918	80	C <sub>6</sub> H <sub>18</sub> O <sub>3</sub> Si <sub>3</sub>	222



Date : 26-MAY-2004 10:22

Client ID: 01-MW-01

Instrument: C.i

Sample Info: GGJX41AA,,D4E190262-001

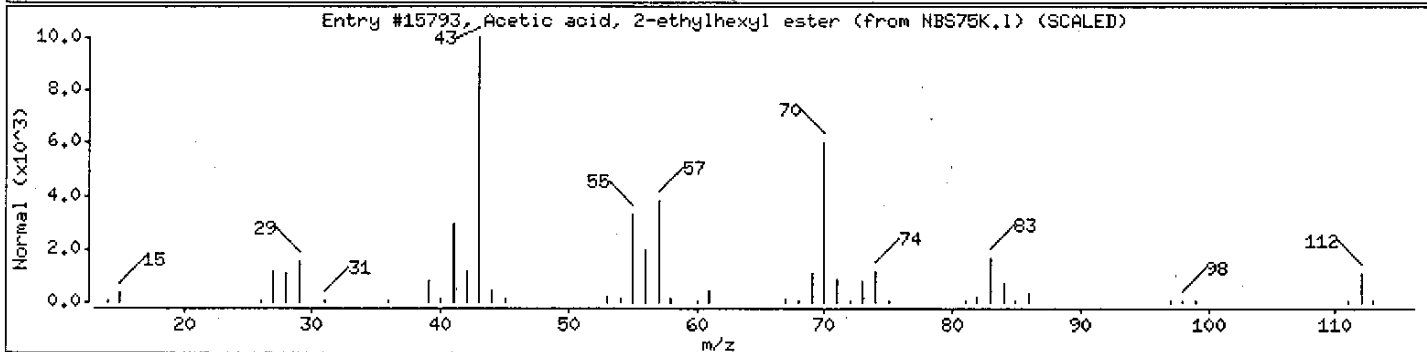
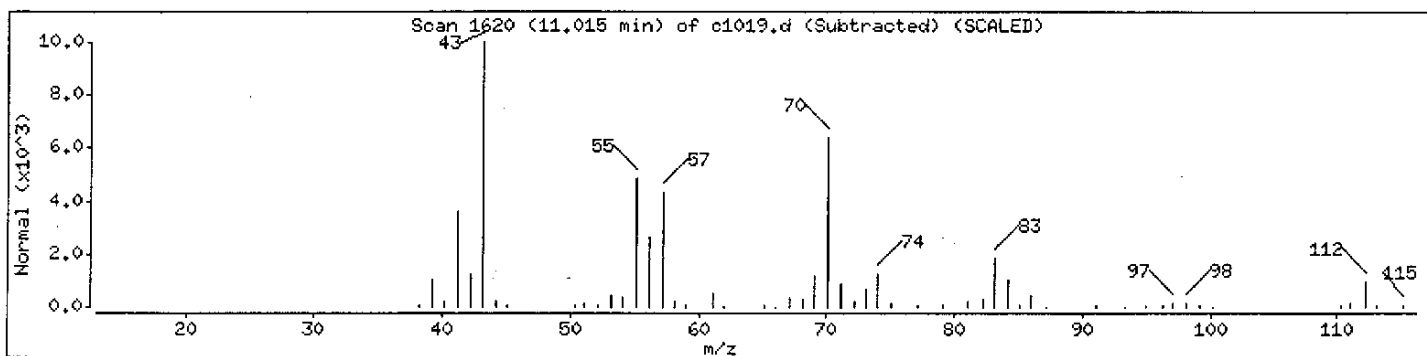
Purge Volume: 20.0

Operator: yanezj

Column phase: DB624

Column diameter: 0.53

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Acetic acid, 2-ethylhexyl ester	103-09-3	NBS75K.1	15793	86	C <sub>10</sub> H <sub>20</sub> O <sub>2</sub>	172



Date : 26-MAY-2004 10:22

Client ID: 01-MW-01

Instrument: C.i

Sample Info: GGJX41AA,,D4E190262-001

Purge Volume: 20.0

Operator: yanezj

Column phase: DB624

Column diameter: 0.53

Library Search Compound Match

CAS Number

Library

Entry

Quality

Formula

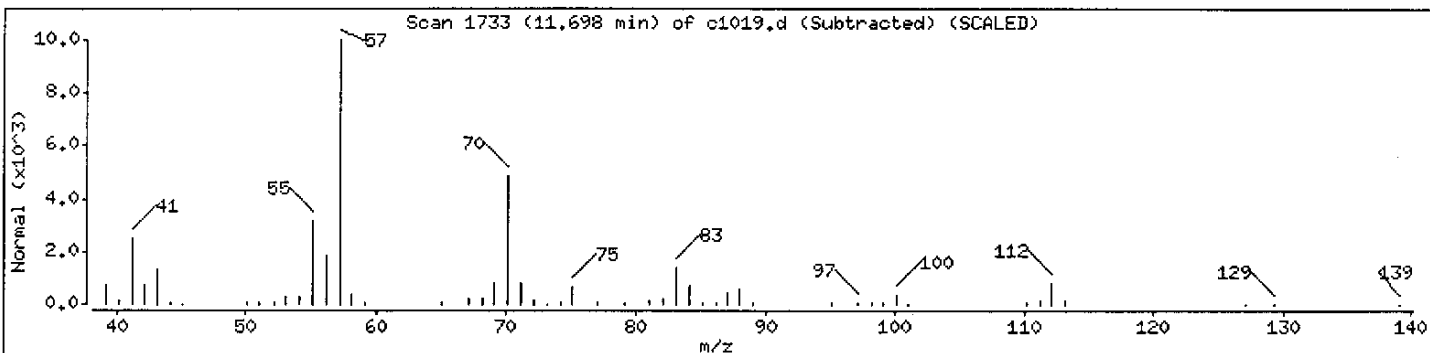
Weight

Unknown

0

0

0



STL Denver

VOLATILE REPORT SW-846

Data file : /chem/C.i/052604.b/c1020.d  
Lab Smp Id: GGJX61AA Client Smp ID: 01-MW-08  
Inj Date : 26-MAY-2004 10:42  
Operator : yanezj Inst ID: C.i  
Smp Info : GGJX61AA,,D4E190262-002  
Misc Info :  
Comment : Purge and Trap Analysis  
Method : /chem/C.i/052604.b/C-20ml-AQ.m  
Meth Date : 27-May-2004 05:39 yanezj Quant Type: ISTD  
Cal Date : 10-MAY-2004 20:33 Cal File: c0458.d  
Als bottle: 2  
Dil Factor: 1.00000  
Integrator: Falcon Compound Sublist: QK-01.sub  
Target Version: 3.40  
Processing Host: chemsv02

05/27/04  
Dm

Concentration Formula: Amt \* DF \* Vp/Vs

Name	Value	Description
DF	1.000	Dilution Factor
Vp	20.000	Final Purge Volume (ml)
Vs	20.000	Sample Volume (ml)

						CONCENTRATIONS	
QUANT SIG						ON-COLUMN	FINAL
Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	( ug/L)	( ug/L)
=====	----	--	-----	-----	-----	-----	-----
* 56 Fluorobenzene	96	4.106	4.107	(1.000)	1415467	10.0000	
* 81 Chlorobenzene-d5	119	7.563	7.563	(1.000)	209023	10.0000	
* 107 1,4-Dichlorobenzene-d4	152	9.720	9.721	(1.000)	254785	10.0000	
\$ 48 Dibromofluoromethane	111	3.236	3.236	(0.788)	259221	8.63603	8.63603
\$ 52 1,2-Dichloroethane-d4	65	3.677	3.678	(0.895)	260619	8.11709	8.11709
\$ 69 Toluene-d8	98	6.082	6.083	(0.804)	1087710	9.11613	9.11613
\$ 93 Bromofluorobenzene	95	8.693	8.693	(1.149)	303096	8.42596	8.42596
1 dichlorodifluoromethane	85.00	Compound Not Detected.					
2 dichlorotetrafluoroethane	85.00	Compound Not Detected.					
3 Chloromethane	50.00	Compound Not Detected.					
4 Vinyl Chloride	62.00	Compound Not Detected.					
5 Ethylene Oxide	43.00	Compound Not Detected.					
6 Bromomethane	94.00	Compound Not Detected.					
7 Chloroethane	64.00	Compound Not Detected.					
8 Dichlorofluoromethane	67.00	Compound Not Detected.					
9 Trichlorofluoromethane	101.00	Compound Not Detected.					

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN ( ug/L)	FINAL ( ug/L)
10 Ethanol	45.00				Compound Not Detected.		
11 Ethyl Ether	59.00				Compound Not Detected.		
M 12 1,2-Dichloroethene (total)	96.00				Compound Not Detected.		
13 1,2-dichloro-1,1,2-trifluoroet	117.00				Compound Not Detected.		
14 2,2-dichloro-1,1,1-trifluoroet	83.00				Compound Not Detected.		
15 Acrolein	56.00				Compound Not Detected.		
16 Trichlorotrifluoroethane	151.00				Compound Not Detected.		
17 1,1-Dichloroethene	96.00				Compound Not Detected.		
M 18 Xylene (total)	106.00				Compound Not Detected.		
19 Acetone	43	1.528	1.529	(0.372)	15919	3.74017	3.74016(a)
20 Iodomethane	142.00				Compound Not Detected.		
21 Carbon Disulfide	76.00				Compound Not Detected.		
22 2-Propanol	45.00				Compound Not Detected.		
23 Allyl Chloride	41.00				Compound Not Detected.		
24 Methyl acetate	43.00				Compound Not Detected.		
25 Acetonitrile	41.00				Compound Not Detected.		
26 Methylene Chloride	84	1.752	1.752	(0.427)	11877	0.37069	0.370685(a)
27 tert-Butyl alcohol	59.00				Compound Not Detected.		
28 Methyl t-butyl ether	73.00				Compound Not Detected.		
29 trans-1,2-Dichloroethene	96.00				Compound Not Detected.		
30 Acrylonitrile	53.00				Compound Not Detected.		
31 Hexane	57.00				Compound Not Detected.		
32 1,1-Dichloroethane	63.00				Compound Not Detected.		
33 Isopropyl ether	87.00				Compound Not Detected.		
34 Chloroprene	53.00				Compound Not Detected.		
35 Vinyl acetate	43.00				Compound Not Detected.		
36 ETBE	59.00				Compound Not Detected.		
37 2,2-Dichloropropane	77.00				Compound Not Detected.		
38 cis-1,2-Dichloroethene	96.00				Compound Not Detected.		
39 2-Butanone	43.00				Compound Not Detected.		
40 Ethyl Acetate	43.00				Compound Not Detected.		
41 Propionitrile	54.00				Compound Not Detected.		
42 Bromochloromethane	128.00				Compound Not Detected.		
43 Tetrahydrofuran	42.00				Compound Not Detected.		
44 Methacrylonitrile	41.00				Compound Not Detected.		
45 Chloroform	83.00				Compound Not Detected.		
46 Cyclohexane	56.00				Compound Not Detected.		
47 1,1,1-Trichloroethane	97.00				Compound Not Detected.		
49 Carbon Tetrachloride	117.00				Compound Not Detected.		
50 1,1-Dichloropropene	75.00				Compound Not Detected.		
51 Benzene	78.00				Compound Not Detected.		
53 Isobutanol	41.00				Compound Not Detected.		
54 1,2-Dichloroethane	62.00				Compound Not Detected.		
55 TAME	73.00				Compound Not Detected.		
57 Trichloroethene	130.00				Compound Not Detected.		
58 Methyl cyclohexane	55.00				Compound Not Detected.		
59 n-Butanol	56.00				Compound Not Detected.		



Compounds	QUANT SIG MASS					CONCENTRATIONS	
		RT	EXP RT	REL RT	RESPONSE	ON-COLUMN ( ug/L)	FINAL ( ug/L)
60 1,2-Dichloropropane	63.00						
61 2-Pentanone	43.00						
62 Dibromomethane	93.00						
63 1,4-Dioxane	88	5.164	5.146	(1.258)	974	8.87276	8.87276(a)
64 Methyl Methacrylate	100.00						
65 Bromodichloromethane	83.00						
66 2-nitropropane	41.00						
67 2-Chloroethyl vinyl ether	63.00						
68 cis-1,3-Dichloropropene	75.00						
70 4-Methyl-2-pentanone	43.00						
71 Toluene	91.00						
72 trans-1,3-Dichloropropene	75.00						
73 Ethyl methacrylate	69.00						
74 1,1,2-Trichloroethane	97.00						
75 Tetrachloroethene	164.00						
76 1,3-Dichloropropane	76.00						
77 Tetrahydrothiophene	60.00						
78 2-Hexanone	43.00						
79 Dibromochloromethane	129.00						
80 1,2-Dibromoethane	107.00						
82 Chlorobenzene	112.00						
83 1-Chlorohexane	91.00						
84 1,1,1,2-Tetrachloroethane	131.00						
85 Ethylbenzene	106.00						
86 m and p-Xylene	106.00						
87 o-Xylene	106.00						
88 Styrene	104.00						
89 Bromoform	173.00						
90 isopropyl benzene	105.00						
91 Cyclohexanone	55.00						
92 cis-1,4-dichloro-2-butene	53.00						
94 Bromobenzene	156.00						
95 1,1,2,2-Tetrachloroethane	83.00						
96 1,2,3-Trichloropropane	110.00						
97 n-Propylbenzene	120.00						
98 t-1,4-Dichloro-2-butene	53.00						
99 2-Chlorotoluene	126.00						
100 4-Chlorotoluene	126.00						
101 1,3,5-Trimethylbenzene	105.00						
102 tert-Butylbenzene	119.00						
103 1,2,4-Trimethylbenzene	105.00						
104 sec-Butylbenzene	134.00						
105 m-Dichlorobenzene	146.00						
106 4-Isopropyltoluene	119.00						
108 p-dichlorobenzene	146.00						
109 1,2,3-Trimethylbenzene	105.00						
110 o-Dichlorobenzene	146.00						

Compounds	QUANT SIG						CONCENTRATIONS	
		RT	EXP RT	REL RT	RESPONSE		ON-COLUMN	FINAL
	MASS						( ug/L)	( ug/L)
=====	=====	==	=====	=====	=====		=====	=====
111 n-Butylbenzene	91.00		Compound Not Detected.					
112 1,2-Dibromo-3-chloropropane	157.00		Compound Not Detected.					
113 1,2,4-Trichlorobenzene	180.00		Compound Not Detected.					
114 Hexachlorobutadiene	225.00		Compound Not Detected.					
115 Naphthalene	128.00		Compound Not Detected.					
116 1,2,3-Trichlorobenzene	180.00		Compound Not Detected.					

QC Flag Legend

a - Target compound detected but, quantitated amount  
Below Limit Of Quantitation(BLOQ).

STL Denver

VOLATILE REPORT SW-846

Data file : /chem/C.i/052604.b/c1020.d  
Lab Smp Id: GGJX61AA Client Smp ID: 01-MW-08  
Inj Date : 26-MAY-2004 10:42  
Operator : yanezj Inst ID: C.i  
Smp Info : GGJX61AA,,D4E190262-002  
Misc Info :  
Comment : Purge and Trap Analysis  
Method : /chem/C.i/052604.b/C-20ml-AQ.m  
Meth Date : 27-May-2004 05:39 yanezj Quant Type: ISTD  
Cal Date : 10-MAY-2004 20:33 Cal File: c0458.d  
Als bottle: 2  
Dil Factor: 1.00000  
Integrator: Falcon Compound Sublist: QK-01.sub  
Target Version: 3.40  
Processing Host: chemsv02

Concentration Formula: Amt \* DF \* Vp/Vs

Name	Value	Description
DF	1.000	Dilution Factor
Vp	20.000	Final Purge Volume (ml)
Vs	20.000	Sample Volume (ml)

ISTD	RT	AREA	AMOUNT
=====	=====	=====	=====
* 107 1,4-Dichlorobenzene-d4	9.720	1977836	10.000

CONCENTRATIONS					QUANT		
RT	AREA	ON-COL( ug/L)	FINAL( ug/L)	QUAL	LIBRARY	LIB ENTRY	CPND #
=====	=====	=====	=====	=====	=====	=====	=====
Acetic acid, 2-ethylhexyl ester					CAS #: 103-09-3		
11.013	791055	3.99959855	3.99960	91	NBS75K.1	15793	107
Unknown					CAS #:		
11.696	589402	2.98003475	2.98003	0		0	107

STL Denver

INTERNAL STANDARD COMPOUNDS  
AREA AND RT SUMMARY

Instrument ID: C.i  
Lab File ID: c1020.d  
Lab Smp Id: GGJX61AA  
Analysis Type: VOA  
Quant Type: ISTD  
Operator: yanezj  
Method File: /chem/C.i/052604.b/C-20ml-AQ.m  
Misc Info:

Calibration Date: 05/26/4  
Calibration Time: 0712  
Client Smp ID: 01-MW-08  
Level: LOW  
Sample Type: WATER

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
56 Fluorobenzene	1833520	916760	3667040	1415467	-22.80
81 Chlorobenzene-d5	260102	130051	520204	209023	-19.64
107 1,4-Dichlorobenze	288639	144320	577278	254785	-11.73

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
56 Fluorobenzene	4.11	3.61	4.61	4.11	-0.01
81 Chlorobenzene-d5	7.56	7.06	8.06	7.56	0.00
107 1,4-Dichlorobenze	9.72	9.22	10.22	9.72	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.

STL Denver

RECOVERY REPORT

Client Name: Cabrera Services                      Client SDG: D4E190262  
Sample Matrix: LIQUID                              Fraction: VOA  
Lab Smp Id: GGJX61AA                              Client Smp ID: 01-MW-08  
Level: LOW    Operator: yanezj  
Data Type: MS DATA                                SampleType: SAMPLE  
SpikeList File: dcs-h20.spk                       Quant Type: ISTD  
Sublist File: QK-01.sub  
Method File: /chem/C.i/052604.b/C-20ml-AQ.m  
Misc Info:

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
\$ 48 Dibromofluorometha	8.75000	8.63603	98.70	76-116
\$ 52 1,2-Dichloroethane	8.75000	8.11709	92.77	59-129
\$ 69 Toluene-d8	8.75000	9.11613	104.18	76-116
\$ 93 Bromofluorobenzene	8.75000	8.42596	96.30	74-114

Data File: /chem/C.i/052604.b/c1020.d

Date : 26-MAY-2004 10:42

Client ID: 01-MW-08

Sample Info: GGJX61AA,,D4E190262-002

Purge Volume: 20.0

Column phase: DB624

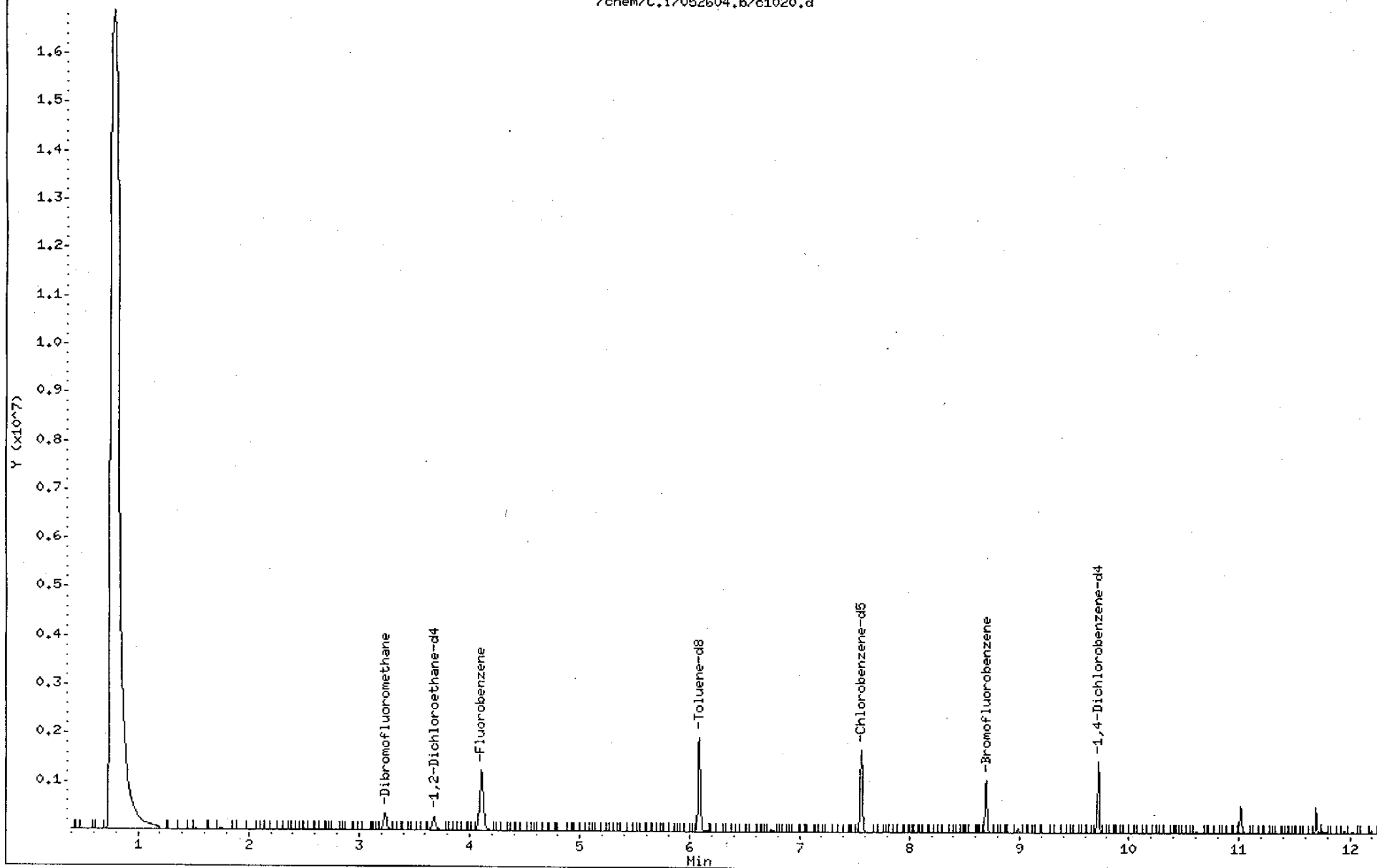
Instrument: C.i

Operator: yanezj

Column diameter: 0.53

Page 8

/chem/C.i/052604.b/c1020.d



Date : 26-MAY-2004 10:42

Client ID: 01-MW-08

Instrument: C.i

Sample Info: GGJX61AA,,D4E190262-002

Purge Volume: 20.0

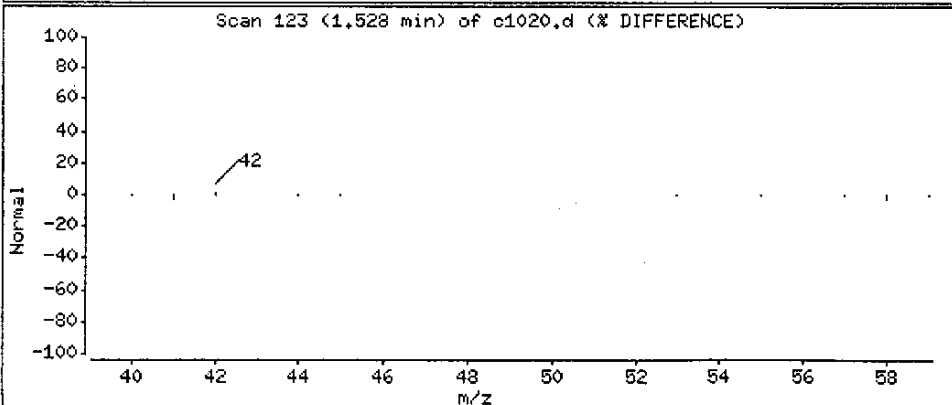
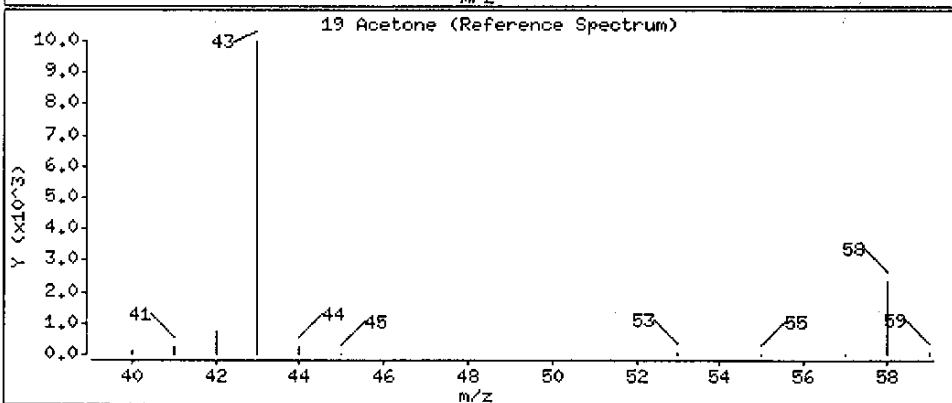
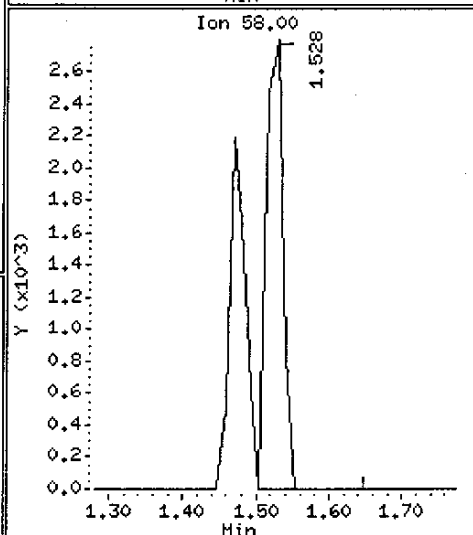
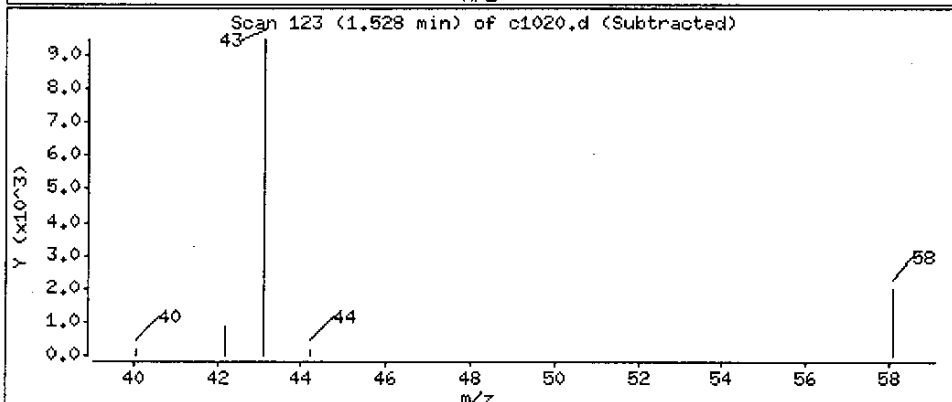
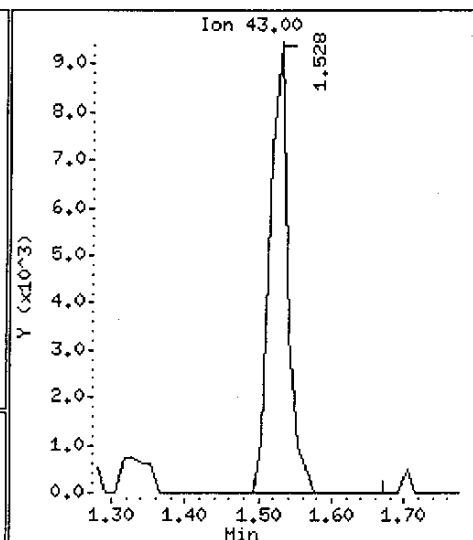
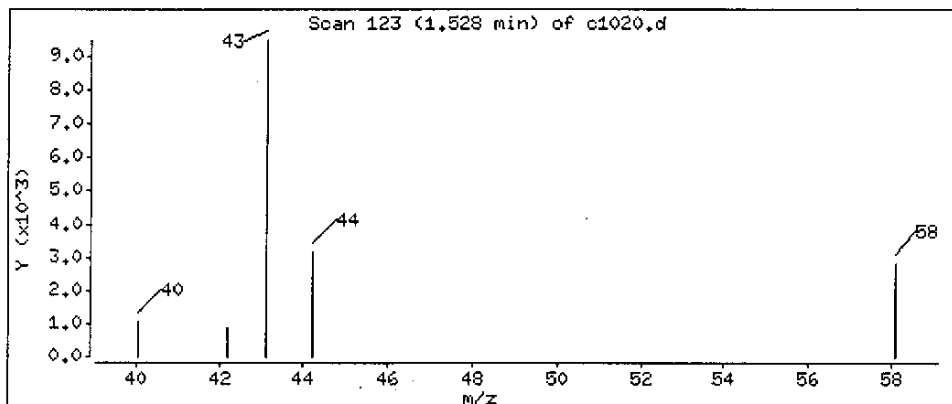
Operator: yanezj

Column phase: DB624

Column diameter: 0.53

19 Acetone

Concentration: 3.74016 ug/L



Date : 26-MAY-2004 10:42

Client ID: 01-MW-08

Instrument: C.i

Sample Info: GGJX61AA,,D4E190262-002

Purge Volume: 20.0

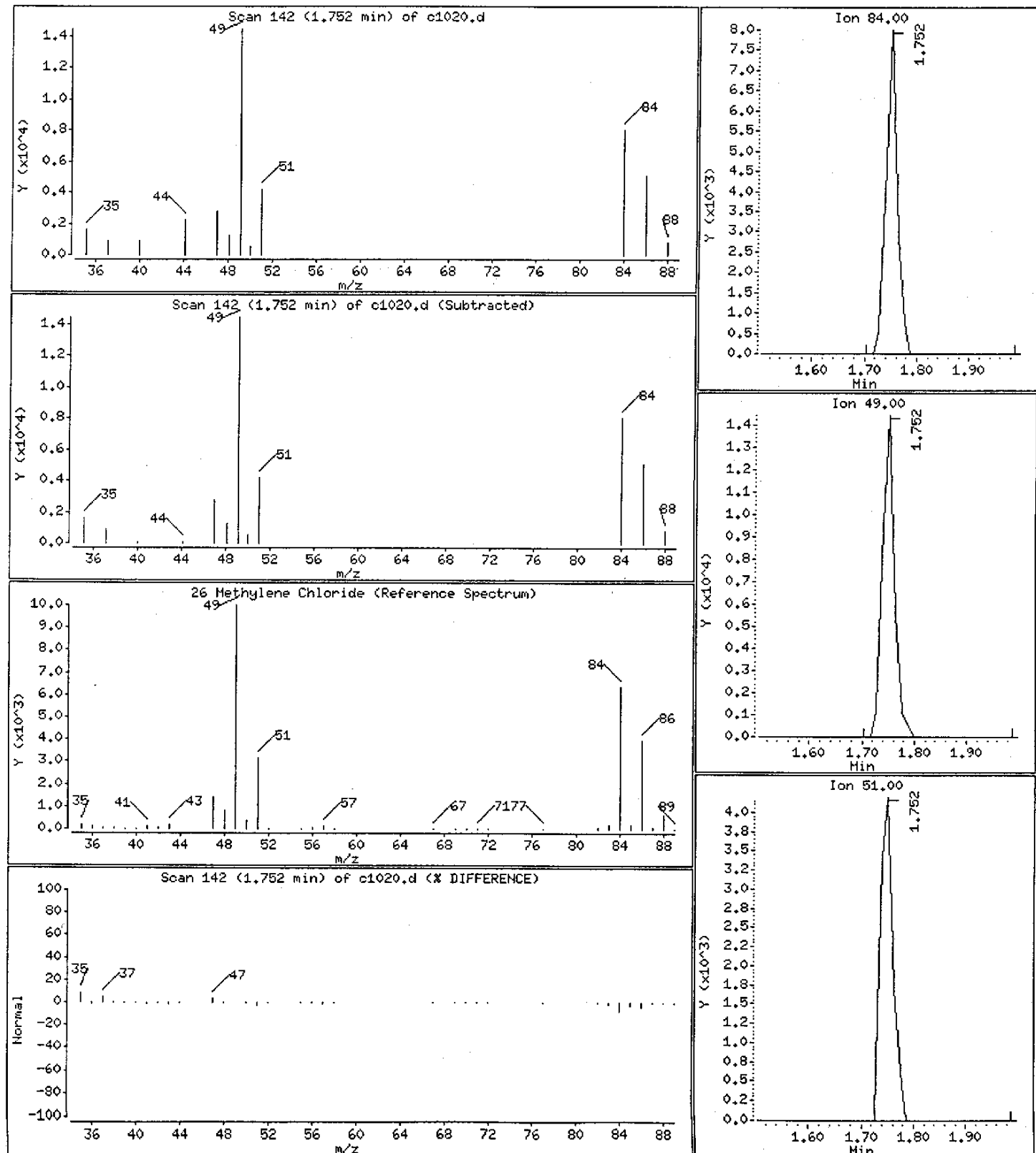
Operator: yanezj

Column phase: DB624

Column diameter: 0.53

26 Methylene Chloride

Concentration: 0.370685 ug/L





Date : 26-MAY-2004 10:42

Client ID: 01-MW-08

Instrument: C.i

Sample Info: GGJX61AA,,D4E190262-002

Purge Volume: 20.0

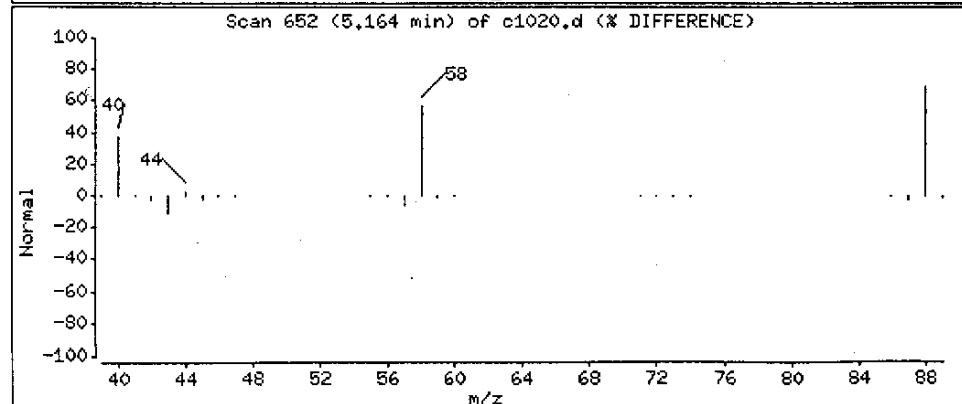
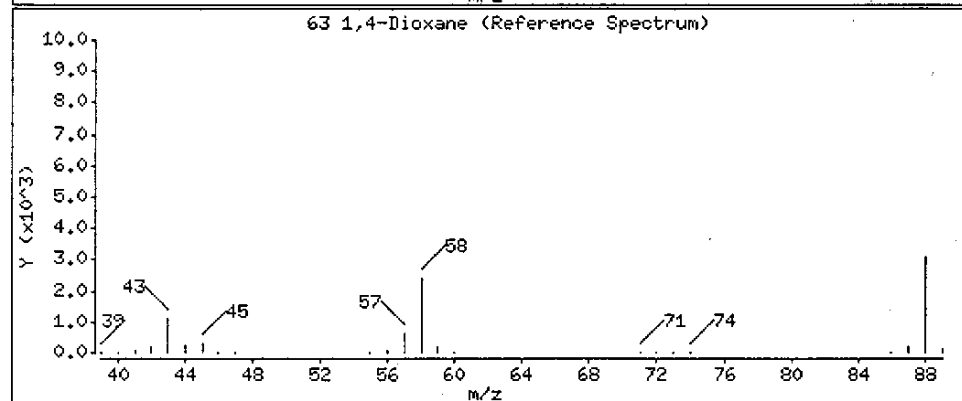
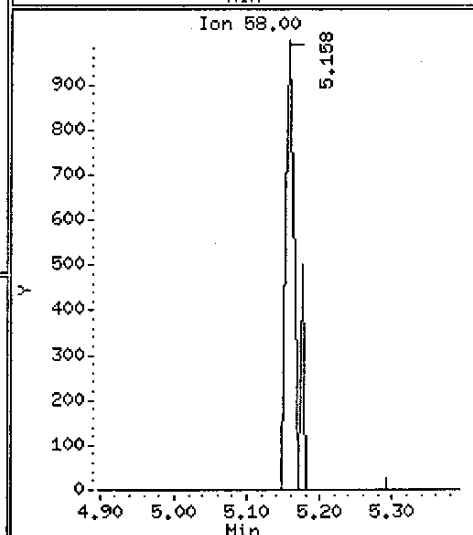
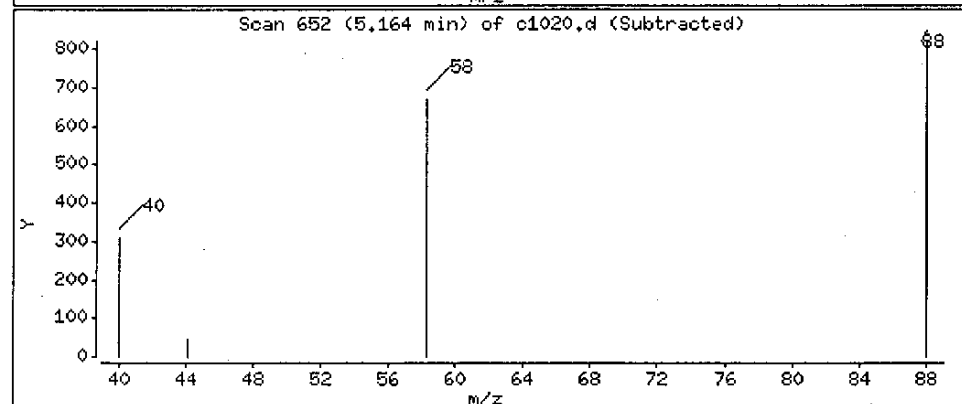
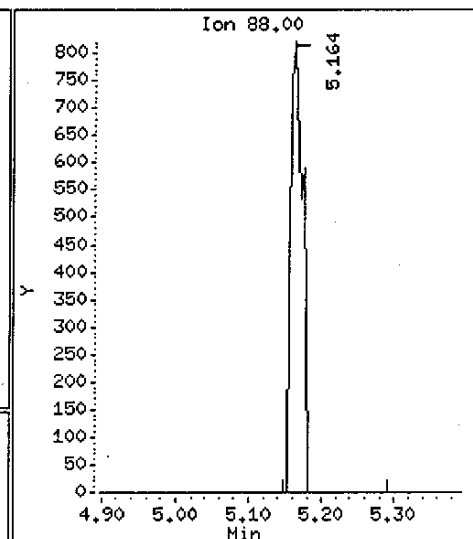
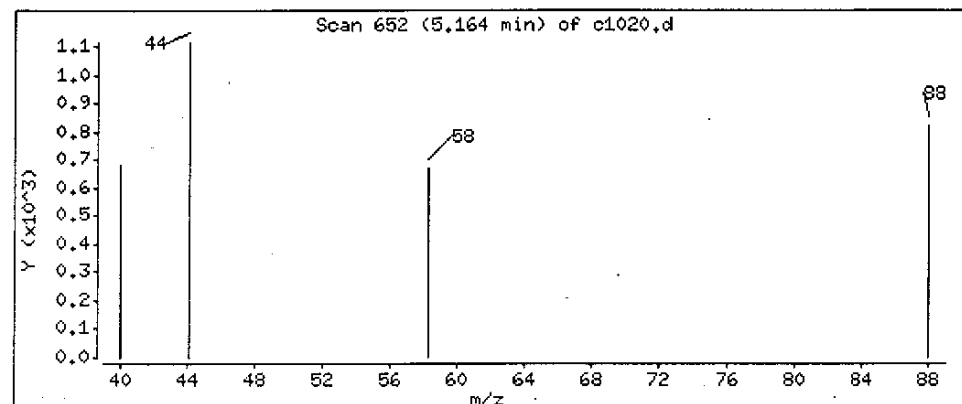
Operator: yanezj

Column phase: DB624

Column diameter: 0.53

63 1,4-Dioxane

Concentration: 8.87276 ug/L



Date : 26-MAY-2004 10:42

Client ID: 01-MW-08

Instrument: C.i

Sample Info: GGJX61AA,,D4E190262-002

Purge Volume: 20.0

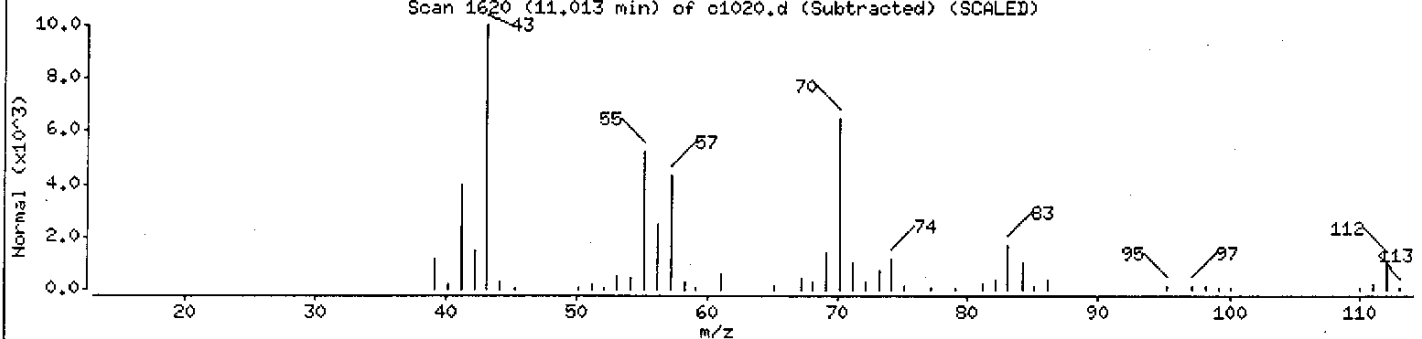
Operator: yanezj

Column phase: DB624

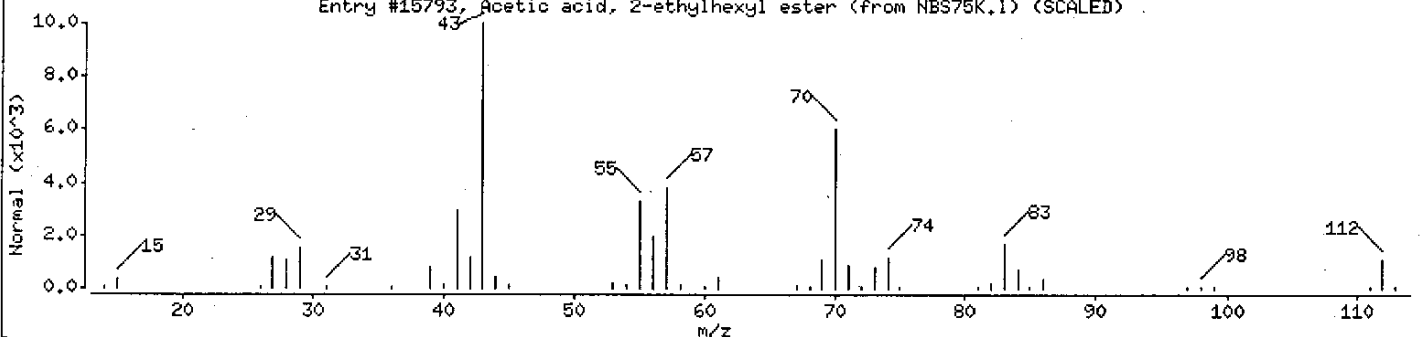
Column diameter: 0.53

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Acetic acid, 2-ethylhexyl ester	103-09-3	NBS75K.1	15793	91	C10H20O2	172

Scan 1620 (11.013 min) of c1020.d (Subtracted) (SCALED)



Entry #15793, Acetic acid, 2-ethylhexyl ester (from NBS75K.1) (SCALED)



Date : 26-MAY-2004 10:42

Client ID: 01-MW-08

Instrument: C.i

Sample Info: GGJX61AA,,D4E190262-002

Purge Volume: 20.0

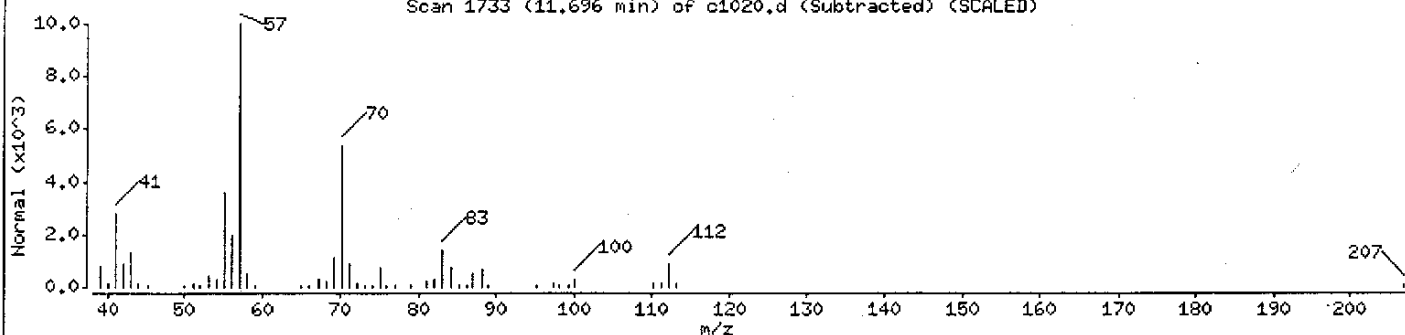
Operator: yanezj

Column phase: DB624

Column diameter: 0.53

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown			0	0		0

Scan 1733 (11.696 min) of c1020.d (Subtracted) (SCALED)



STL Denver

VOLATILE REPORT SW-846

Data file : /chem/C.i/052604.b/c1021.d  
Lab Smp Id: GGJX81AA Client Smp ID: 01-MW-EB  
Inj Date : 26-MAY-2004 11:02  
Operator : yanezj Inst ID: C.i  
Smp Info : GGJX81AA,,D4E190262-003  
Misc Info :  
Comment : Purge and Trap Analysis  
Method : /chem/C.i/052604.b/C-20ml-AQ.m  
Meth Date : 27-May-2004 05:39 yanezj Quant Type: ISTD  
Cal Date : 10-MAY-2004 20:33 Cal File: c0458.d  
Als bottle: 2  
Dil Factor: 1.00000  
Integrator: Falcon Compound Sublist: QK-01.sub  
Target Version: 3.40  
Processing Host: chemsv02

05/27/04  
Jmy

Concentration Formula: Amt \* DF \* Vp/Vs

Name	Value	Description
DF	1.000	Dilution Factor
Vp	20.000	Final Purge Volume (ml)
Vs	20.000	Sample Volume (ml)

Compounds	QUANT SIG				CONCENTRATIONS		
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN ( ug/L)	FINAL ( ug/L)
* 56 Fluorobenzene	96	4.107	4.107	(1.000)	1372463	10.0000	
* 81 Chlorobenzene-d5	119	7.563	7.563	(1.000)	214279	10.0000	
* 107 1,4-Dichlorobenzene-d4	152	9.721	9.721	(1.000)	275416	10.0000	
\$ 48 Dibromofluoromethane	111	3.236	3.236	(0.788)	249097	8.55877	8.55877
\$ 52 1,2-Dichloroethane-d4	65	3.678	3.678	(0.896)	256919	8.25258	8.25258
\$ 69 Toluene-d8	98	6.083	6.083	(0.804)	1087984	8.89477	8.89476
\$ 93 Bromofluorobenzene	95	8.693	8.693	(1.149)	314610	8.53152	8.53152
1 dichlorodifluoromethane	85.00				Compound Not Detected.		
2 dichlorotetrafluoroethane	85.00				Compound Not Detected.		
3 Chloromethane	50.00				Compound Not Detected.		
4 Vinyl Chloride	62.00				Compound Not Detected.		
5 Ethylene Oxide	43.00				Compound Not Detected.		
6 Bromomethane	94.00				Compound Not Detected.		
7 Chloroethane	64.00				Compound Not Detected.		
8 Dichlorofluoromethane	67.00				Compound Not Detected.		
9 Trichlorofluoromethane	101.00				Compound Not Detected.		

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN ( ug/L)	FINAL ( ug/L)
=====	=====	==	=====	=====	=====	=====	=====
10 Ethanol	45.00		Compound Not Detected.				
11 Ethyl Ether	59.00		Compound Not Detected.				
M 12 1,2-Dichloroethene (total)	96.00		Compound Not Detected.				
13 1,2-dichloro-1,1,2-trifluoroet	117.00		Compound Not Detected.				
14 2,2-dichloro-1,1,1-trifluoroet	83.00		Compound Not Detected.				
15 Acrolein	56.00		Compound Not Detected.				
16 Trichlorotrifluoroethane	151.00		Compound Not Detected.				
17 1,1-Dichloroethene	96.00		Compound Not Detected.				
M 18 Xylene (total)	106.00		Compound Not Detected.				
19 Acetone	43.00		Compound Not Detected.				
20 Iodomethane	142.00		Compound Not Detected.				
21 Carbon Disulfide	76.00		Compound Not Detected.				
22 2-Propanol	45.00		Compound Not Detected.				
23 Allyl Chloride	41.00		Compound Not Detected.				
24 Methyl acetate	43.00		Compound Not Detected.				
25 Acetonitrile	41.00		Compound Not Detected.				
26 Methylene Chloride	84	1.752	1.752 (0.427)		11461	0.36891	0.368910(a)
27 tert-Butyl alcohol	59.00		Compound Not Detected.				
28 Methyl t-butyl ether	73.00		Compound Not Detected.				
29 trans-1,2-Dichloroethene	96.00		Compound Not Detected.				
30 Acrylonitrile	53.00		Compound Not Detected.				
31 Hexane	57.00		Compound Not Detected.				
32 1,1-Dichloroethane	63.00		Compound Not Detected.				
33 Isopropyl ether	87.00		Compound Not Detected.				
34 Chloroprene	53.00		Compound Not Detected.				
35 Vinyl acetate	43.00		Compound Not Detected.				
36 ETBE	59.00		Compound Not Detected.				
37 2,2-Dichloropropane	77.00		Compound Not Detected.				
38 cis-1,2-Dichloroethene	96.00		Compound Not Detected.				
39 2-Butanone	43.00		Compound Not Detected.				
40 Ethyl Acetate	43.00		Compound Not Detected.				
41 Propionitrile	54.00		Compound Not Detected.				
42 Bromochloromethane	128.00		Compound Not Detected.				
43 Tetrahydrofuran	42.00		Compound Not Detected.				
44 Methacrylonitrile	41.00		Compound Not Detected.				
45 Chloroform	83.00		Compound Not Detected.				
46 Cyclohexane	56.00		Compound Not Detected.				
47 1,1,1-Trichloroethane	97.00		Compound Not Detected.				
49 Carbon Tetrachloride	117.00		Compound Not Detected.				
50 1,1-Dichloropropene	75.00		Compound Not Detected.				
51 Benzene	78.00		Compound Not Detected.				
53 Isobutanol	41.00		Compound Not Detected.				
54 1,2-Dichloroethane	62.00		Compound Not Detected.				
55 TAME	73.00		Compound Not Detected.				
57 Trichloroethene	130.00		Compound Not Detected.				
58 Methyl cyclohexane	55.00		Compound Not Detected.				
59 n-Butanol	56.00		Compound Not Detected.				

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN ( ug/L)	FINAL ( ug/L)
60 1,2-Dichloropropane	63.00				Compound Not Detected.		
61 2-Pentanone	43.00				Compound Not Detected.		
62 Dibromomethane	93.00				Compound Not Detected.		
63 1,4-Dioxane	88.00				Compound Not Detected.		
64 Methyl Methacrylate	100.00				Compound Not Detected.		
65 Bromodichloromethane	83.00				Compound Not Detected.		
66 2-nitropropane	41.00				Compound Not Detected.		
67 2-Chloroethyl vinyl ether	63.00				Compound Not Detected.		
68 cis-1,3-Dichloropropene	75.00				Compound Not Detected.		
70 4-Methyl-2-pentanone	43.00				Compound Not Detected.		
71 Toluene	91.00				Compound Not Detected.		
72 trans-1,3-Dichloropropene	75.00				Compound Not Detected.		
73 Ethyl methacrylate	69.00				Compound Not Detected.		
74 1,1,2-Trichloroethane	97.00				Compound Not Detected.		
75 Tetrachloroethene	164.00				Compound Not Detected.		
76 1,3-Dichloropropane	76.00				Compound Not Detected.		
77 Tetrahydrothiophene	60.00				Compound Not Detected.		
78 2-Hexanone	43.00				Compound Not Detected.		
79 Dibromochloromethane	129.00				Compound Not Detected.		
80 1,2-Dibromoethane	107.00				Compound Not Detected.		
82 Chlorobenzene	112.00				Compound Not Detected.		
83 1-Chlorohexane	91.00				Compound Not Detected.		
84 1,1,1,2-Tetrachloroethane	131.00				Compound Not Detected.		
85 Ethylbenzene	106.00				Compound Not Detected.		
86 m and p-Xylene	106.00				Compound Not Detected.		
87 o-Xylene	106.00				Compound Not Detected.		
88 Styrene	104.00				Compound Not Detected.		
89 Bromoform	173.00				Compound Not Detected.		
90 isopropyl benzene	105.00				Compound Not Detected.		
91 Cyclohexanone	55.00				Compound Not Detected.		
92 cis-1,4-dichloro-2-butene	53.00				Compound Not Detected.		
94 Bromobenzene	156.00				Compound Not Detected.		
95 1,1,2,2-Tetrachloroethane	83.00				Compound Not Detected.		
96 1,2,3-Trichloropropane	110.00				Compound Not Detected.		
97 n-Propylbenzene	120.00				Compound Not Detected.		
98 t-1,4-Dichloro-2-butene	53.00				Compound Not Detected.		
99 2-Chlorotoluene	126.00				Compound Not Detected.		
100 4-Chlorotoluene	126.00				Compound Not Detected.		
101 1,3,5-Trimethylbenzene	105.00				Compound Not Detected.		
102 tert-Butylbenzene	119.00				Compound Not Detected.		
103 1,2,4-Trimethylbenzene	105.00				Compound Not Detected.		
104 sec-Butylbenzene	134.00				Compound Not Detected.		
105 m-Dichlorobenzene	146.00				Compound Not Detected.		
106 4-Isopropyltoluene	119.00				Compound Not Detected.		
108 p-dichlorobenzene	146.00				Compound Not Detected.		
109 1,2,3-Trimethylbenzene	105.00				Compound Not Detected.		
110 o-Dichlorobenzene	146.00				Compound Not Detected.		

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN	FINAL
	MASS					( ug/L)	( ug/L)
=====	=====	==	=====	=====	=====	=====	=====
111 n-Butylbenzene	91.00		Compound Not Detected.				
112 1,2-Dibromo-3-chloropropane	157.00		Compound Not Detected.				
113 1,2,4-Trichlorobenzene	180.00		Compound Not Detected.				
114 Hexachlorobutadiene	225.00		Compound Not Detected.				
115 Naphthalene	128.00		Compound Not Detected.				
116 1,2,3-Trichlorobenzene	180.00		Compound Not Detected.				

QC Flag Legend

a - Target compound detected but, quantitated amount  
Below Limit Of Quantitation(BLOQ).

STL Denver

VOLATILE REPORT SW-846

Data file : /chem/C.i/052604.b/c1021.d  
Lab Smp Id: GGJX81AA Client Smp ID: 01-MW-EB  
Inj Date : 26-MAY-2004 11:02  
Operator : yanezj Inst ID: C.i  
Smp Info : GGJX81AA,,D4E190262-003  
Misc Info :  
Comment : Purge and Trap Analysis  
Method : /chem/C.i/052604.b/C-20ml-AQ.m  
Meth Date : 27-May-2004 05:39 yanezj Quant Type: ISTD  
Cal Date : 10-MAY-2004 20:33 Cal File: c0458.d  
Als bottle: 2  
Dil Factor: 1.00000  
Integrator: Falcon Compound Sublist: QK-01.sub  
Target Version: 3.40  
Processing Host: chemsv02

Concentration Formula: Amt \* DF \* Vp/Vs

Name	Value	Description
DF	1.000	Dilution Factor
Vp	20.000	Final Purge Volume (ml)
Vs	20.000	Sample Volume (ml)

ISTD	RT	AREA	AMOUNT
=====	=====	=====	=====
* 81 Chlorobenzene-d5	7.563	2738001	10.000
* 107 1,4-Dichlorobenzene-d4	9.721	2152150	10.000

CONCENTRATIONS					QUANT		
RT	AREA	ON-COL( ug/L)	FINAL( ug/L)	QUAL	LIBRARY	LIB ENTRY	CPND #
====	====	=====	=====	=====	=====	=====	=====
Cyclotrisiloxane, hexamethyl-					CAS #: 541-05-9		
6.747	317228	1.15861170	1.15861	80	NBS75K.1	27918	81
Unknown					CAS #:		
10.615	227823	1.05858328	1.05858	0		0	107



RT	CONCENTRATIONS				QUANT		CPND #
	AREA	ON-COL( ug/L)	FINAL( ug/L)	QUAL	LIBRARY	LIB ENTRY	
====	----	-----	-----	----	-----	-----	-----
Acetic acid, 2-ethylhexyl ester					CAS #: 103-09-3		
11.014	2477820	11.5132310	11.5132	86	NBS75K.1	15793	107
Unknown					CAS #:		
11.697	2411730	11.2061427	11.2061	0		0	107
Unknown					CAS #:		
12.186	227876	1.05882954	1.05883	0		0	107

STL Denver

INTERNAL STANDARD COMPOUNDS  
AREA AND RT SUMMARY

Instrument ID: C.i  
Lab File ID: c1021.d  
Lab Smp Id: GGJX81AA  
Analysis Type: VOA  
Quant Type: ISTD  
Operator: yanezj  
Method File: /chem/C.i/052604.b/C-20ml-AQ.m  
Misc Info:

Calibration Date: 05/26/4  
Calibration Time: 0712  
Client Smp ID: 01-MW-EB  
Level: LOW  
Sample Type: WATER

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
=====	=====	=====	=====	=====	=====
56 Fluorobenzene	1833520	916760	3667040	1372463	-25.15
81 Chlorobenzene-d5	260102	130051	520204	214279	-17.62
107 1,4-Dichlorobenze	288639	144320	577278	275416	-4.58

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
=====	=====	=====	=====	=====	=====
56 Fluorobenzene	4.11	3.61	4.61	4.11	0.00
81 Chlorobenzene-d5	7.56	7.06	8.06	7.56	0.00
107 1,4-Dichlorobenze	9.72	9.22	10.22	9.72	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.

STL Denver

RECOVERY REPORT

Client Name: Cabrera Services                      Client SDG: D4E190262  
Sample Matrix: LIQUID                              Fraction: VOA  
Lab Smp Id: GGJX81AA                              Client Smp ID: 01-MW-EB  
Level: LOW    Operator: yanezj  
Data Type: MS DATA                                SampleType: SAMPLE  
SpikeList File: dcs-h20.spk                        Quant Type: ISTD  
Sublist File: QK-01.sub  
Method File: /chem/C.i/052604.b/C-20ml-AQ.m  
Misc Info:

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
\$ 48 Dibromofluorometha	8.75000	8.55877	97.81	76-116
\$ 52 1,2-Dichloroethane	8.75000	8.25258	94.32	59-129
\$ 69 Toluene-d8	8.75000	8.89476	101.65	76-116
\$ 93 Bromofluorobenzene	8.75000	8.53152	97.50	74-114

Data File: /chem/C.i/052604.b/c1021.d

Date : 26-MAY-2004 11:02

Client ID: 01-MW-EB

Sample Info: GGJX81AA,,D4E190262-003

Purge Volume: 20.0

Column phase: DB624

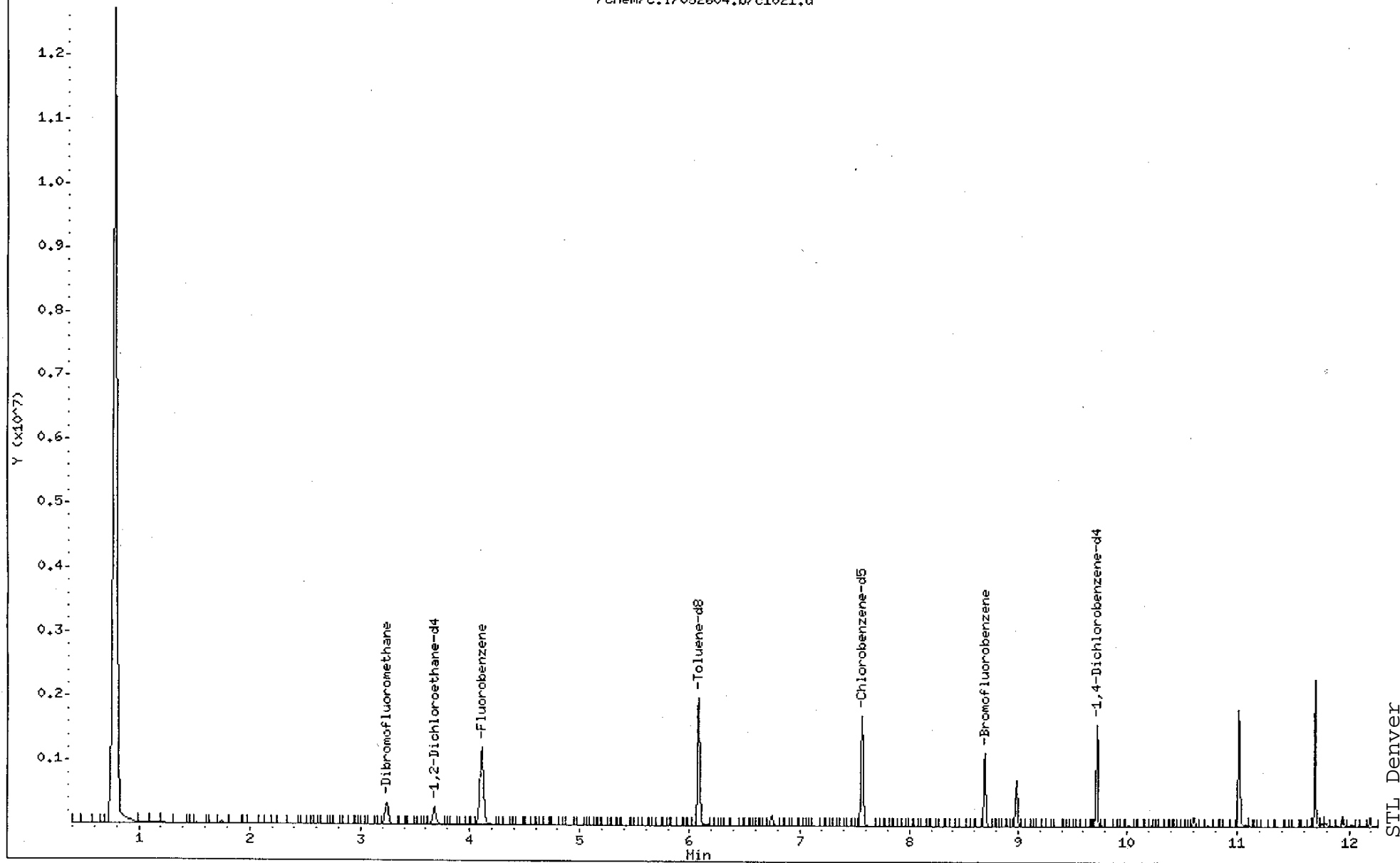
Instrument: C.i

Operator: yanezj

Column diameter: 0.53

Page 9

/chem/C.i/052604.b/c1021.d



Date : 26-MAY-2004 11:02

Client ID: 01-MW-EB

Instrument: C.i

Sample Info: GGJX81AA,,D4E190262-003

Purge Volume: 20.0

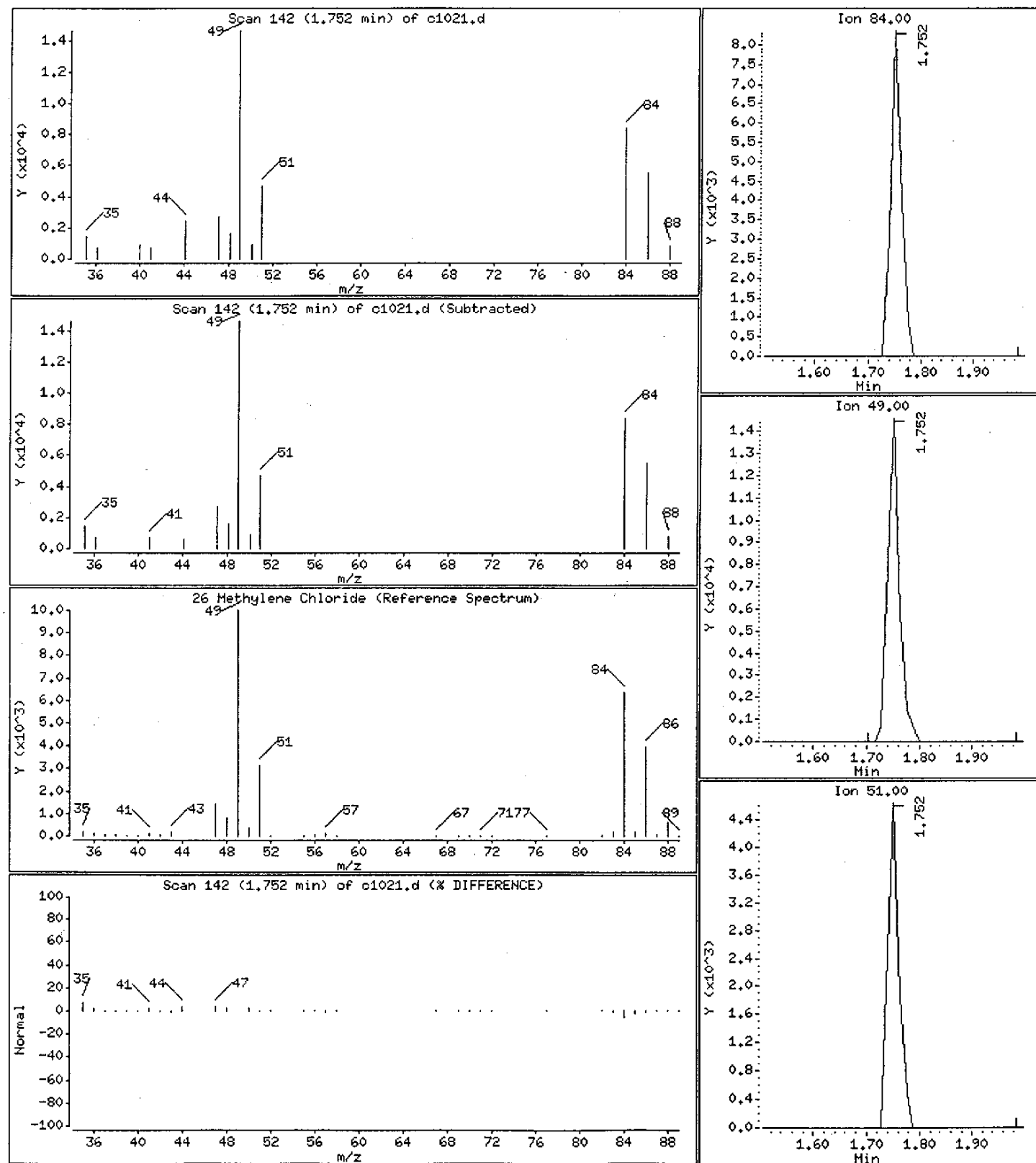
Operator: yanezj

Column phase: DB624

Column diameter: 0.53

26 Methylene Chloride

Concentration: 0.368910 ug/L



Date : 26-MAY-2004 11:02

Client ID: 01-MW-EB

Instrument: C.i

Sample Info: GGJX81AA,,D4E190262-003

Purge Volume: 20.0

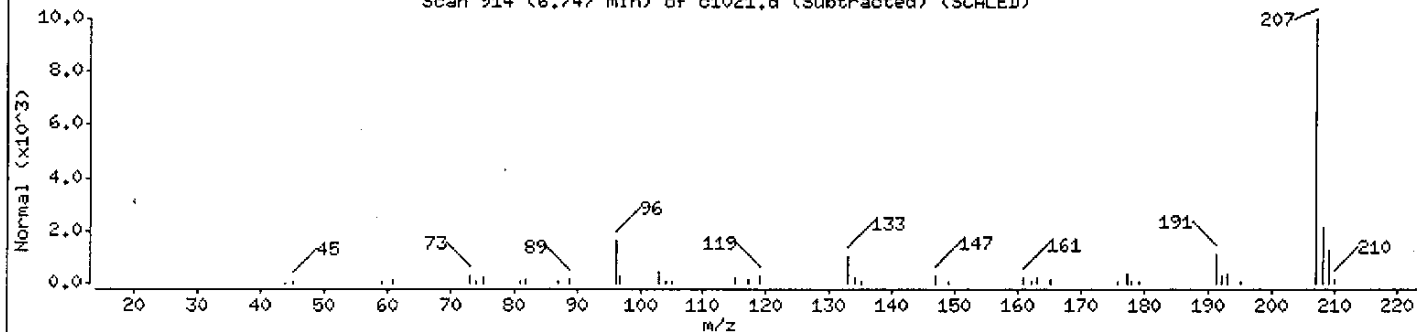
Operator: yanezj

Column phase: DB624

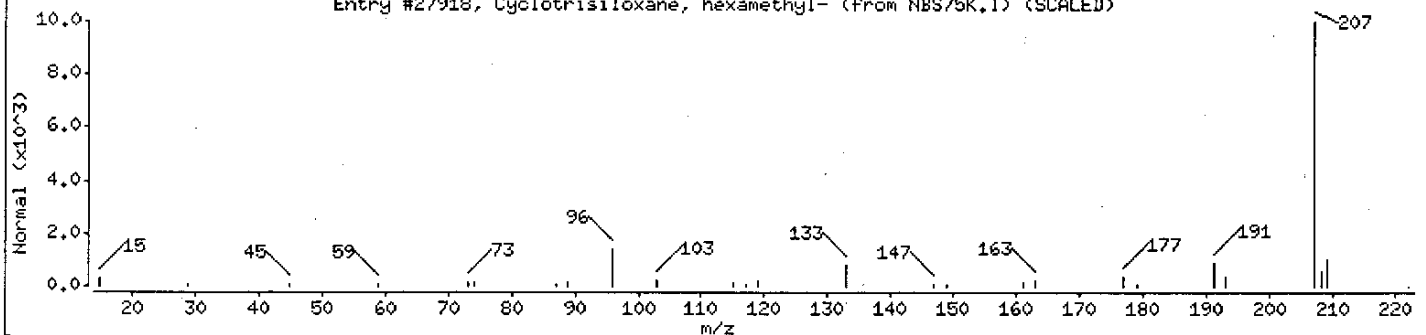
Column diameter: 0.53

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Cyclotrisiloxane, hexamethyl-	541-05-9	NBS75K.1	27918	80	C <sub>6</sub> H <sub>18</sub> O <sub>3</sub> Si <sub>3</sub>	222

Scan 914 (6.747 min) of c1021.d (Subtracted) (SCALED)



Entry #27918, Cyclotrisiloxane, hexamethyl- (from NBS75K.1) (SCALED)



Date : 26-MAY-2004 11:02

Client ID: 01-MW-EB

Instrument: C.i

Sample Info: GGJXB1AA,,D4E190262-003

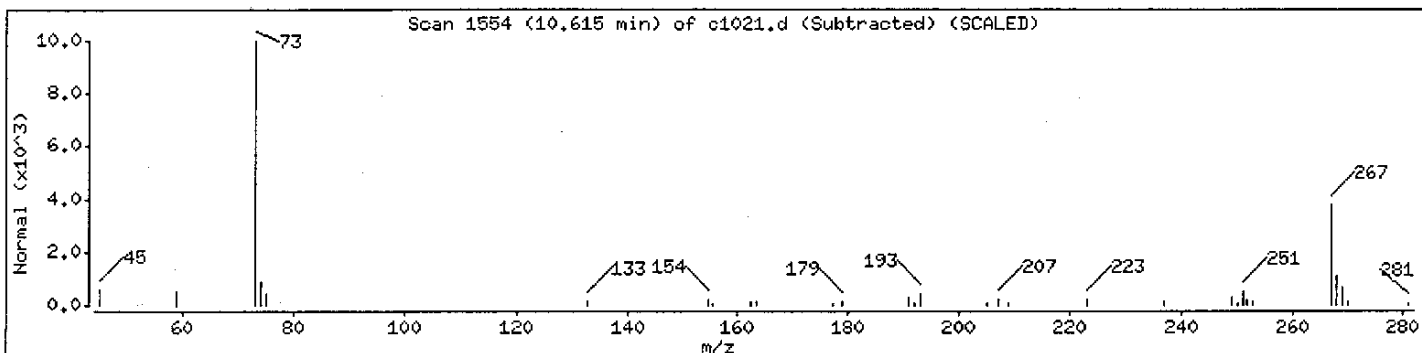
Purge Volume: 20.0

Operator: yanezj

Column phase: DB624

Column diameter: 0.53

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown			0	0		0



Date : 26-MAY-2004 11:02

Client ID: 01-MW-EB

Instrument: C.i

Sample Info: GGJX81AA,,D4E190262-003

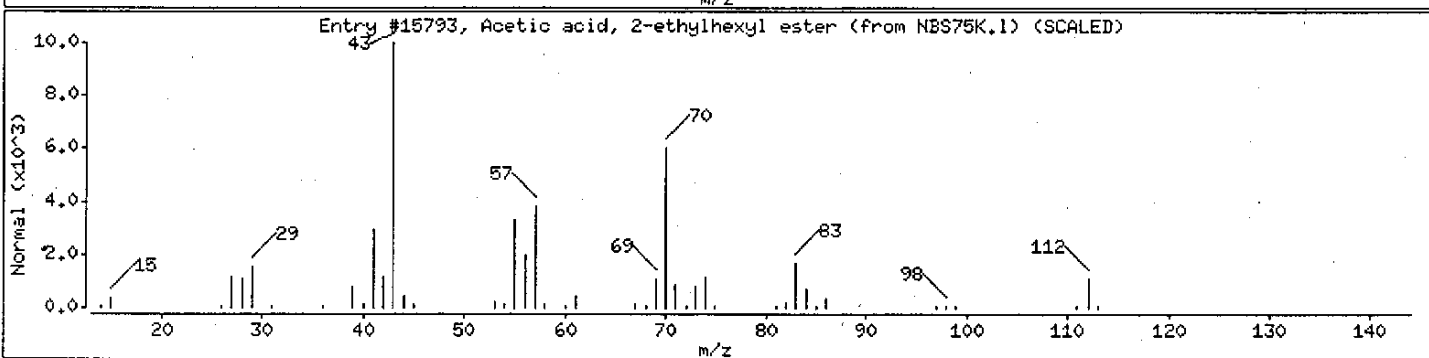
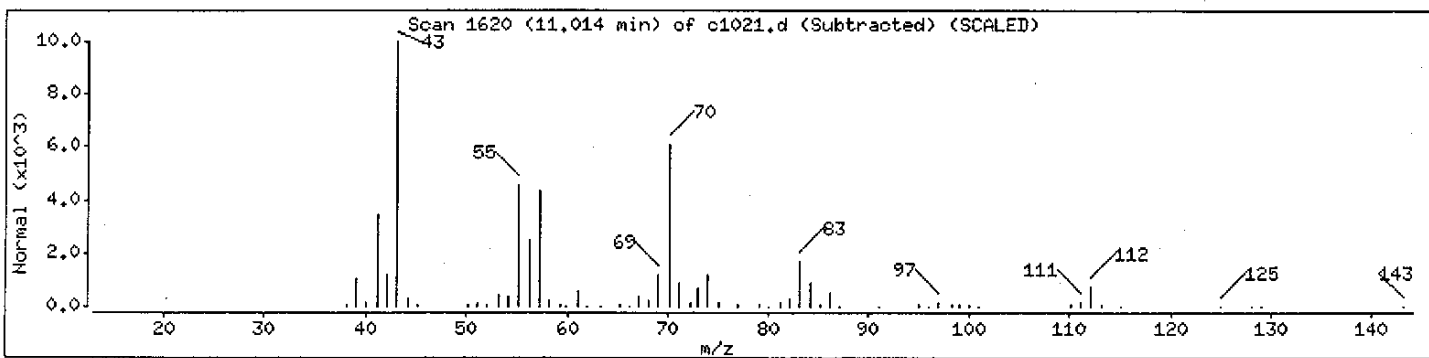
Purge Volume: 20.0

Operator: yanezj

Column phase: DB624

Column diameter: 0.53

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Acetic acid, 2-ethylhexyl ester	103-09-3	NBS75K.1	15793	86	C10H20O2	172





Date : 26-MAY-2004 11:02

Client ID: 01-MM-EB

Instrument: C.i

Sample Info: GGJX81AA,,D4E190262-003

Purge Volume: 20.0

Operator: yanezj

Column phase: DB624

Column diameter: 0.53

Library Search Compound Match

CAS Number

Library

Entry

Quality

Formula

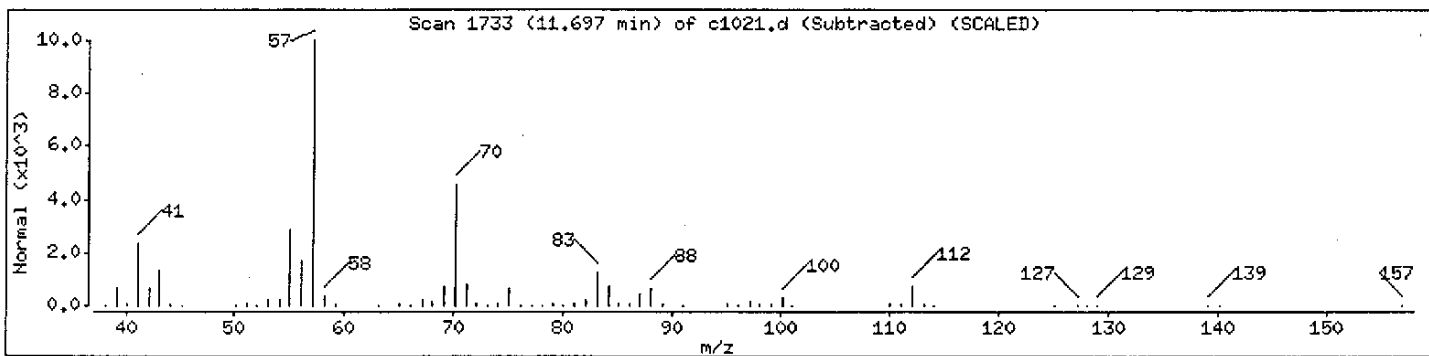
Weight

Unknown

0

0

0



Date : 26-MAY-2004 11:02

Client ID: 01-MM-EB

Instrument: C.i

Sample Info: GGJX81AA,,D4E190262-003

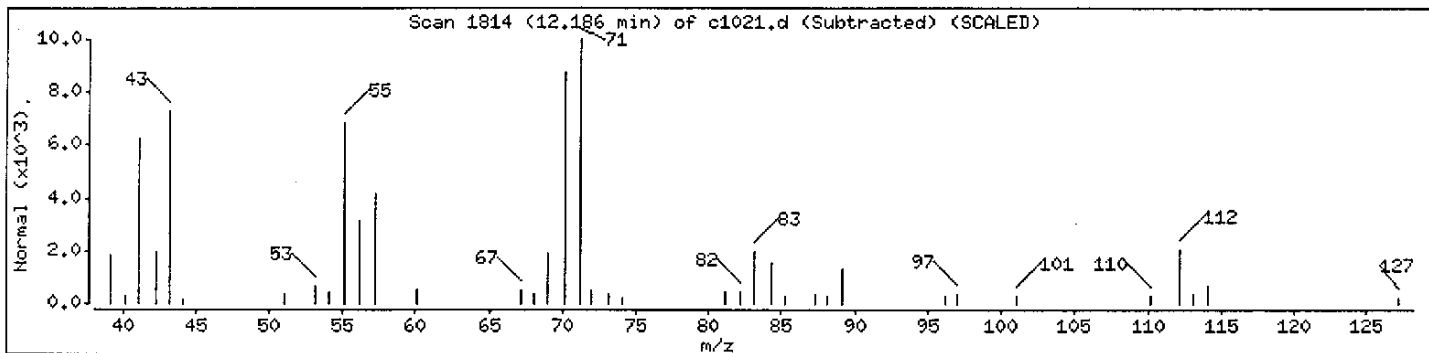
Purge Volume: 20.0

Operator: yanezj

Column phase: DB624

Column diameter: 0.53

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown			0	0		0



STL Denver

VOLATILE REPORT SW-846

Data file : /chem/C.i/052604.b/c1022.d  
Lab Smp Id: GGJX91AA Client Smp ID: 01-MW-09  
Inj Date : 26-MAY-2004 11:22  
Operator : yanezj Inst ID: C.i  
Smp Info : GGJX91AA,,D4E190262-004  
Misc Info :  
Comment : Purge and Trap Analysis  
Method : /chem/C.i/052604.b/C-20ml-AQ.m  
Meth Date : 27-May-2004 05:39 yanezj Quant Type: ISTD  
Cal Date : 10-MAY-2004 20:33 Cal File: c0458.d  
Als bottle: 2  
Dil Factor: 1.00000  
Integrator: Falcon Compound Sublist: QK-01.sub  
Target Version: 3.40  
Processing Host: chemsv02

05/27/04  
Jm

Concentration Formula: Amt \* DF \* Vp/Vs

Name	Value	Description
DF	1.000	Dilution Factor
Vp	20.000	Final Purge Volume (ml)
Vs	20.000	Sample Volume (ml)

Compounds	QUANT SIG						CONCENTRATIONS	
		MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN	FINAL
							( ug/L)	( ug/L)
* 56 Fluorobenzene	96	4.108	4.107	(1.000)	1318400	10.0000		
* 81 Chlorobenzene-d5	119	7.558	7.563	(1.000)	202344	10.0000		
* 107 1,4-Dichlorobenzene-d4	152	9.722	9.721	(1.000)	250459	10.0000		
\$ 48 Dibromofluoromethane	111	3.231	3.236	(0.787)	241069	8.62259	8.62259	
\$ 52 1,2-Dichloroethane-d4	65	3.673	3.678	(0.894)	248890	8.32251	8.32251	
\$ 69 Toluene-d8	98	6.084	6.083	(0.805)	1027134	8.89259	8.89259	
\$ 93 Bromofluorobenzene	95	8.688	8.693	(1.149)	286675	8.23252	8.23252	
1 dichlorodifluoromethane	85.00	Compound Not Detected.						
2 dichlorotetrafluoroethane	85.00	Compound Not Detected.						
3 Chloromethane	50.00	Compound Not Detected.						
4 Vinyl Chloride	62.00	Compound Not Detected.						
5 Ethylene Oxide	43.00	Compound Not Detected.						
6 Bromomethane	94.00	Compound Not Detected.						
7 Chloroethane	64.00	Compound Not Detected.						
8 Dichlorofluoromethane	67.00	Compound Not Detected.						
9 Trichlorofluoromethane	101.00	Compound Not Detected.						

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN ( ug/L)	FINAL ( ug/L)
=====	====	==	=====	=====	=====	=====	=====
10 Ethanol	45.00				Compound Not Detected.		
11 Ethyl Ether	59.00				Compound Not Detected.		
M 12 1,2-Dichloroethene (total)	96.00				Compound Not Detected.		
13 1,2-dichloro-1,1,2-trifluoroet	117.00				Compound Not Detected.		
14 2,2-dichloro-1,1,1-trifluoroet	83.00				Compound Not Detected.		
15 Acrolein	56.00				Compound Not Detected.		
16 Trichlorotrifluoroethane	151.00				Compound Not Detected.		
17 1,1-Dichloroethene	96.00				Compound Not Detected.		
M 18 Xylene (total)	106.00				Compound Not Detected.		
19 Acetone	43.00				Compound Not Detected.		
20 Iodomethane	142.00				Compound Not Detected.		
21 Carbon Disulfide	76.00				Compound Not Detected.		
22 2-Propanol	45.00				Compound Not Detected.		
23 Allyl Chloride	41.00				Compound Not Detected.		
24 Methyl acetate	43.00				Compound Not Detected.		
25 Acetonitrile	41.00				Compound Not Detected.		
26 Methylene Chloride	84	1.755	1.752	(0.427)	10545	0.35334	0.353344(a)
27 tert-Butyl alcohol	59.00				Compound Not Detected.		
28 Methyl t-butyl ether	73.00				Compound Not Detected.		
29 trans-1,2-Dichloroethene	96.00				Compound Not Detected.		
30 Acrylonitrile	53.00				Compound Not Detected.		
31 Hexane	57.00				Compound Not Detected.		
32 1,1-Dichloroethane	63.00				Compound Not Detected.		
33 Isopropyl ether	87.00				Compound Not Detected.		
34 Chloroprene	53.00				Compound Not Detected.		
35 Vinyl acetate	43.00				Compound Not Detected.		
36 ETBE	59.00				Compound Not Detected.		
37 2,2-Dichloropropane	77.00				Compound Not Detected.		
38 cis-1,2-Dichloroethene	96.00				Compound Not Detected.		
39 2-Butanone	43.00				Compound Not Detected.		
40 Ethyl Acetate	43.00				Compound Not Detected.		
41 Propionitrile	54.00				Compound Not Detected.		
42 Bromochloromethane	128.00				Compound Not Detected.		
43 Tetrahydrofuran	42.00				Compound Not Detected.		
44 Methacrylonitrile	41.00				Compound Not Detected.		
45 Chloroform	83.00				Compound Not Detected.		
46 Cyclohexane	56.00				Compound Not Detected.		
47 1,1,1-Trichloroethane	97.00				Compound Not Detected.		
49 Carbon Tetrachloride	117.00				Compound Not Detected.		
50 1,1-Dichloropropene	75.00				Compound Not Detected.		
51 Benzene	78.00				Compound Not Detected.		
53 Isobutanol	41.00				Compound Not Detected.		
54 1,2-Dichloroethane	62.00				Compound Not Detected.		
55 TAME	73.00				Compound Not Detected.		
57 Trichloroethene	130.00				Compound Not Detected.		
58 Methyl cyclohexane	55.00				Compound Not Detected.		
59 n-Butanol	56.00				Compound Not Detected.		

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN ( ug/L)	FINAL ( ug/L)
60 1,2-Dichloropropane	63.00						
61 2-Pentanone	43.00						
62 Dibromomethane	93.00						
63 1,4-Dioxane	88	5.147	5.146	(1.253)	34333	335.787	335.787
64 Methyl Methacrylate	100.00						
65 Bromodichloromethane	83.00						
66 2-nitropropane	41.00						
67 2-Chloroethyl vinyl ether	63.00						
68 cis-1,3-Dichloropropene	75.00						
70 4-Methyl-2-pentanone	43.00						
71 Toluene	91.00						
72 trans-1,3-Dichloropropene	75.00						
73 Ethyl methacrylate	69.00						
74 1,1,2-Trichloroethane	97.00						
75 Tetrachloroethene	164.00						
76 1,3-Dichloropropane	76.00						
77 Tetrahydrothiophene	60.00						
78 2-Hexanone	43.00						
79 Dibromochloromethane	129.00						
80 1,2-Dibromoethane	107.00						
82 Chlorobenzene	112.00						
83 1-Chlorohexane	91.00						
84 1,1,1,2-Tetrachloroethane	131.00						
85 Ethylbenzene	106.00						
86 m and p-Xylene	106.00						
87 o-Xylene	106.00						
88 Styrene	104.00						
89 Bromoform	173.00						
90 isopropyl benzene	105.00						
91 Cyclohexanone	55.00						
92 cis-1,4-dichloro-2-butene	53.00						
94 Bromobenzene	156.00						
95 1,1,2,2-Tetrachloroethane	83.00						
96 1,2,3-Trichloropropane	110.00						
97 n-Propylbenzene	120.00						
98 t-1,4-Dichloro-2-butene	53.00						
99 2-Chlorotoluene	126.00						
100 4-Chlorotoluene	126.00						
101 1,3,5-Trimethylbenzene	105.00						
102 tert-Butylbenzene	119.00						
103 1,2,4-Trimethylbenzene	105.00						
104 sec-Butylbenzene	134.00						
105 m-Dichlorobenzene	146.00						
106 4-Isopropyltoluene	119.00						
108 p-dichlorobenzene	146.00						
109 1,2,3-Trimethylbenzene	105.00						
110 o-Dichlorobenzene	146.00						

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN	FINAL
	MASS					( ug/L)	( ug/L)
=====	=====	==	=====	=====	=====	=====	=====
111 n-Butylbenzene	91.00		Compound Not Detected.				
112 1,2-Dibromo-3-chloropropane	157.00		Compound Not Detected.				
113 1,2,4-Trichlorobenzene	180.00		Compound Not Detected.				
114 Hexachlorobutadiene	225.00		Compound Not Detected.				
115 Naphthalene	128.00		Compound Not Detected.				
116 1,2,3-Trichlorobenzene	180.00		Compound Not Detected.				

QC Flag Legend

a - Target compound detected but, quantitated amount  
Below Limit Of Quantitation(BLOQ).

STL Denver

VOLATILE REPORT SW-846

Data file : /chem/C.i/052604.b/c1022.d  
Lab Smp Id: GGJX91AA Client Smp ID: 01-MW-09  
Inj Date : 26-MAY-2004 11:22  
Operator : yanezj Inst ID: C.i  
Smp Info : GGJX91AA,,D4E190262-004  
Misc Info :  
Comment : Purge and Trap Analysis  
Method : /chem/C.i/052604.b/C-20ml-AQ.m  
Meth Date : 27-May-2004 05:39 yanezj Quant Type: ISTD  
Cal Date : 10-MAY-2004 20:33 Cal File: c0458.d  
Als bottle: 2  
Dil Factor: 1.00000  
Integrator: Falcon Compound Sublist: QK-01.sub  
Target Version: 3.40  
Processing Host: chemsv02

Concentration Formula: Amt \* DF \* Vp/Vs

Name	Value	Description
DF	1.000	Dilution Factor
Vp	20.000	Final Purge Volume (ml)
Vs	20.000	Sample Volume (ml)

ISTD	RT	AREA	AMOUNT
=====	====	=====	=====
* 81 Chlorobenzene-d5	7.558	2542027	10.000
* 107 1,4-Dichlorobenzene-d4	9.722	1974488	10.000

CONCENTRATIONS				QUANT			
RT	AREA	ON-COL( ug/L)	FINAL( ug/L)	QUAL	LIBRARY	LIB ENTRY	CPND #
====	====	=====	=====	====	=====	=====	=====
Cyclotrisiloxane, hexamethyl-				CAS #: 541-05-9			
6.742	276337	1.08707343	1.08707	90	NBS75K.1	70586	81
Acetic acid, 2-ethylhexyl ester				CAS #: 103-09-3			
11.015	2019511	10.2280237	10.2280	90	NBS75K.1	15793	107

RT	AREA	CONCENTRATIONS		QUAL	QUANT		CPND #
		ON-COL( ug/L)	FINAL( ug/L)		LIBRARY	LIB ENTRY	
====	====	=====	=====	====	=====	=====	=====
Unknown					CAS #:		
11.698	1090022	5.52052988	5.52053	0		0	107
Unknown					CAS #:		
11.945	217724	1.10268586	1.10268	0		0	107



STL Denver

INTERNAL STANDARD COMPOUNDS  
AREA AND RT SUMMARY

Instrument ID: C.i  
Lab File ID: c1022.d  
Lab Smp Id: GGJX91AA  
Analysis Type: VOA  
Quant Type: ISTD  
Operator: yanezj  
Method File: /chem/C.i/052604.b/C-20ml-AQ.m  
Misc Info:

Calibration Date: 05/26/4  
Calibration Time: 0712  
Client Smp ID: 01-MW-09  
Level: LOW  
Sample Type: WATER

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
=====	=====	=====	=====	=====	=====
56 Fluorobenzene	1833520	916760	3667040	1318400	-28.09
81 Chlorobenzene-d5	260102	130051	520204	202344	-22.21
107 1,4-Dichlorobenze	288639	144320	577278	250459	-13.23

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
=====	=====	=====	=====	=====	=====
56 Fluorobenzene	4.11	3.61	4.61	4.11	0.02
81 Chlorobenzene-d5	7.56	7.06	8.06	7.56	-0.07
107 1,4-Dichlorobenze	9.72	9.22	10.22	9.72	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.

STL Denver

RECOVERY REPORT

Client Name: Cabrera Services

Sample Matrix: LIQUID

Lab Smp Id: GGJX91AA

Level: LOW

Data Type: MS DATA

SpikeList File: dcs-h20.spk

Sublist File: QK-01.sub

Method File: /chem/C.i/052604.b/C-20ml-AQ.m

Misc Info:

Client SDG: D4E190262

Fraction: VOA

Client Smp ID: 01-MW-09

Operator: yanezj

SampleType: SAMPLE

Quant Type: ISTD

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
\$ 48 Dibromofluorometha	8.75000	8.62259	98.54	76-116
\$ 52 1,2-Dichloroethane	8.75000	8.32251	95.11	59-129
\$ 69 Toluene-d8	8.75000	8.89259	101.63	76-116
\$ 93 Bromofluorobenzene	8.75000	8.23252	94.09	74-114

Data File: /chem/C.i/052604.b/c1022.d

Page 9

Date : 26-MAY-2004 11:22

Client ID: 01-MW-09

Sample Info: GGJX91AA,,D4E190262-004

Purge Volume: 20.0

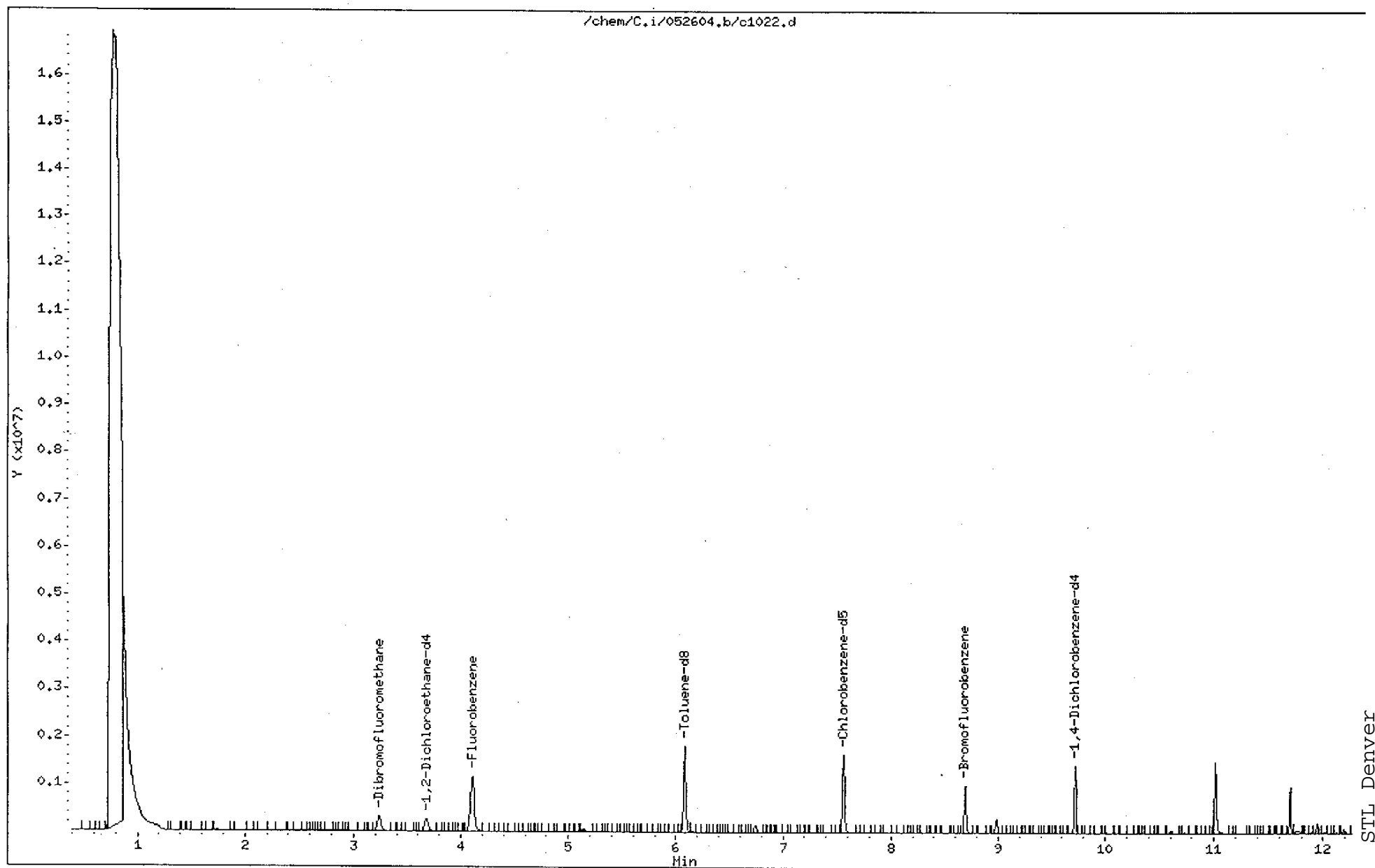
Column phase: DB624

Instrument: C.i

Operator: yanezj

Column diameter: 0.53

/chem/C.i/052604.b/c1022.d



Date : 26-MAY-2004 11:22

Client ID: 01-MW-09

Instrument: C.i

Sample Info: GGJX91AA,,D4E190262-004

Purge Volume: 20.0

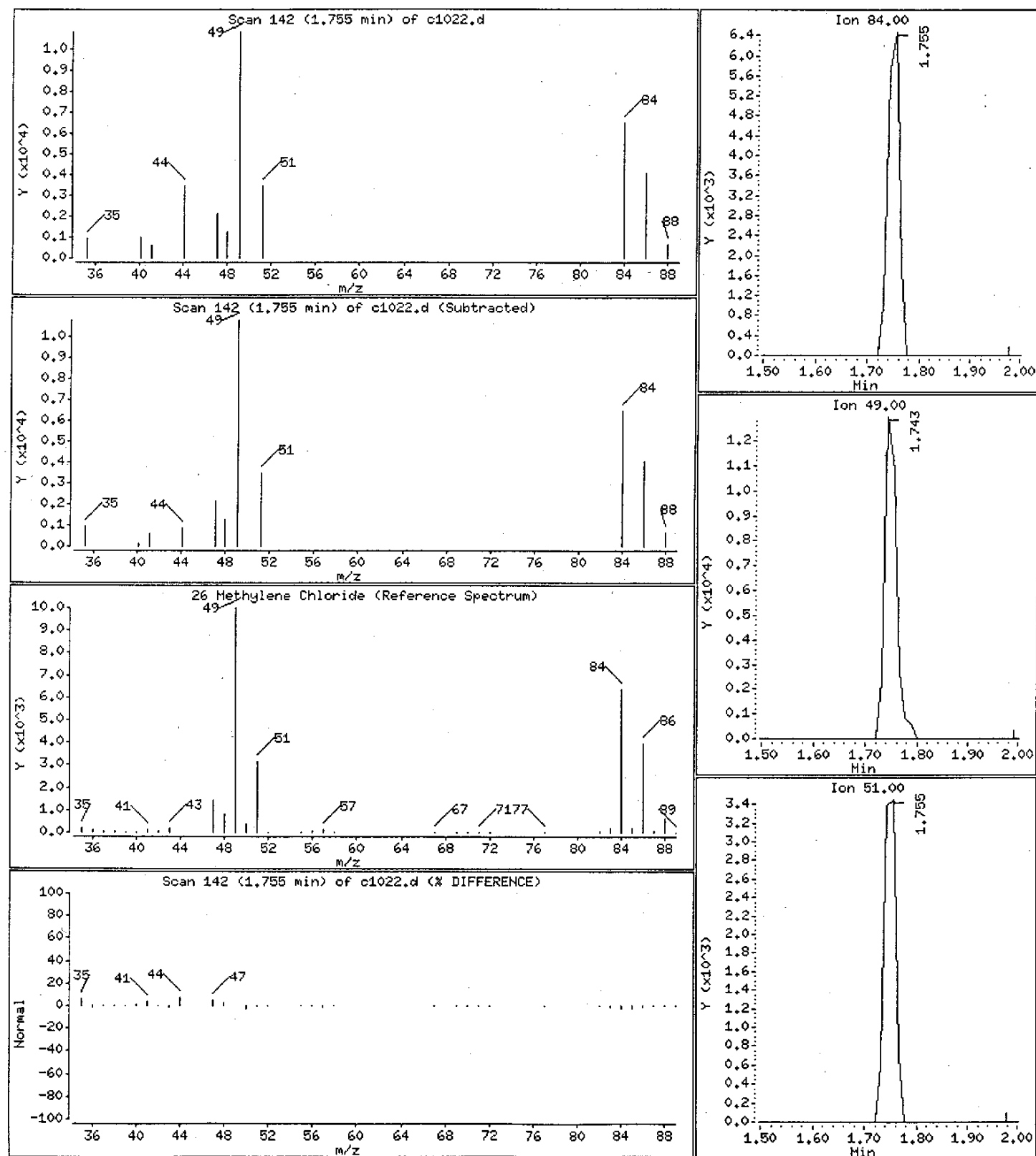
Operator: yanezj

Column phase: DB624

Column diameter: 0.53

26 Methylene Chloride

Concentration: 0.353344 ug/L



Date : 26-MAY-2004 11:22

Client ID: 01-MW-09

Instrument: C.i

Sample Info: GGJX91AA,,D4E190262-004

Purge Volume: 20.0

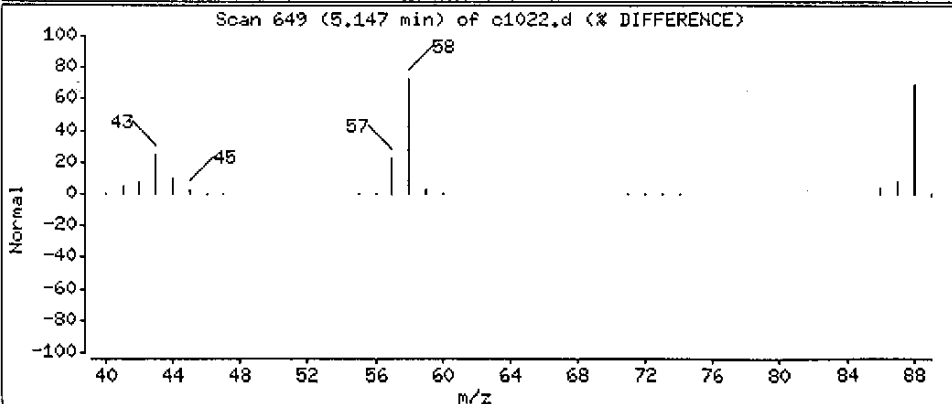
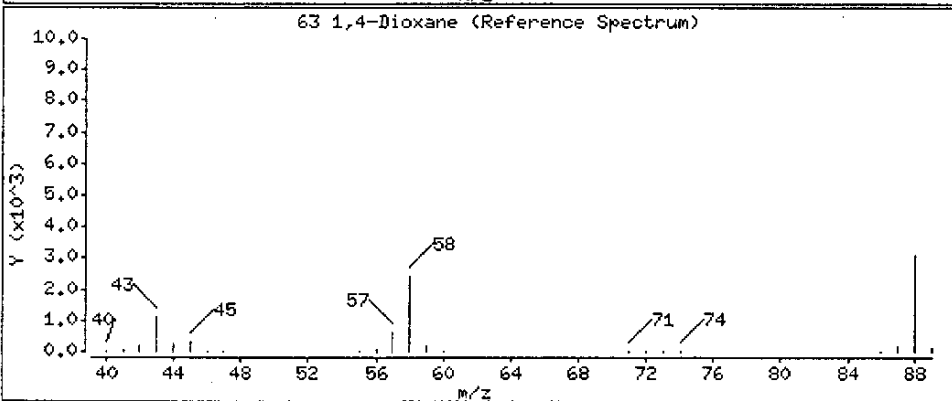
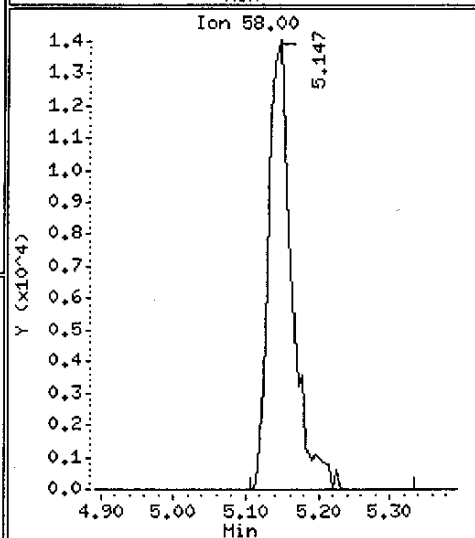
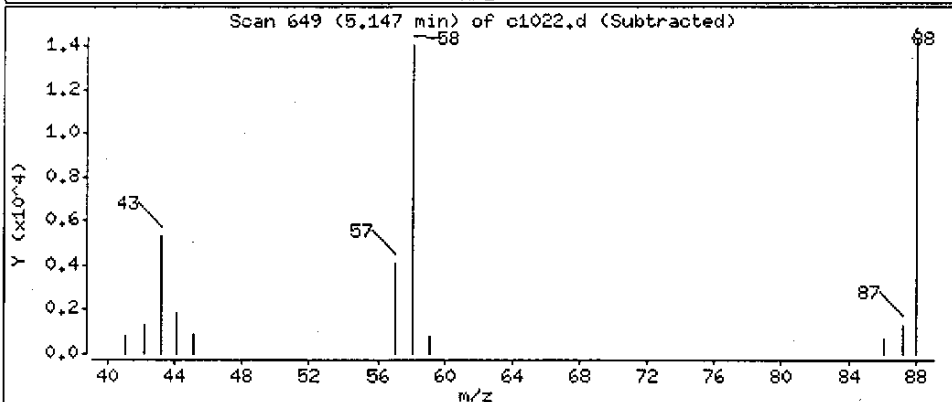
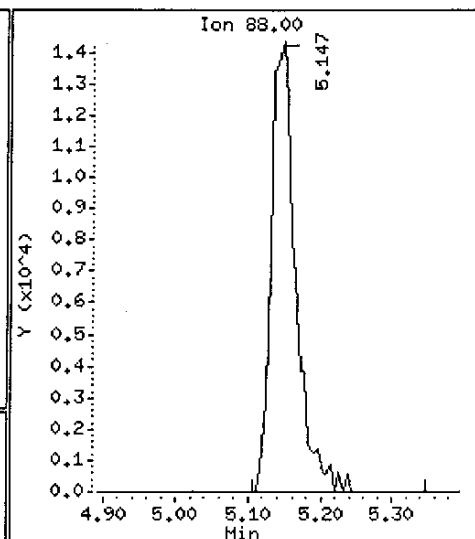
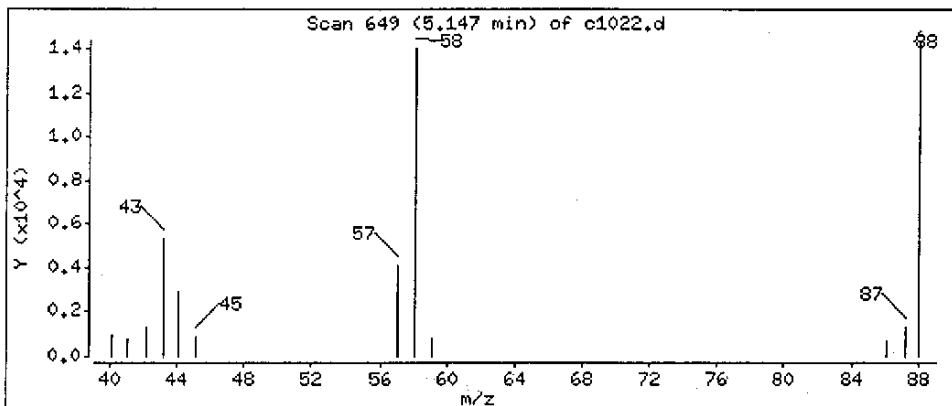
Operator: yanezj

Column phase: DB624

Column diameter: 0.53

63 1,4-Dioxane

Concentration: 335.787 ug/L



Date : 26-MAY-2004 11:22

Client ID: 01-MW-09

Instrument: C.i

Sample Info: GGJX91AA,,D4E190262-004

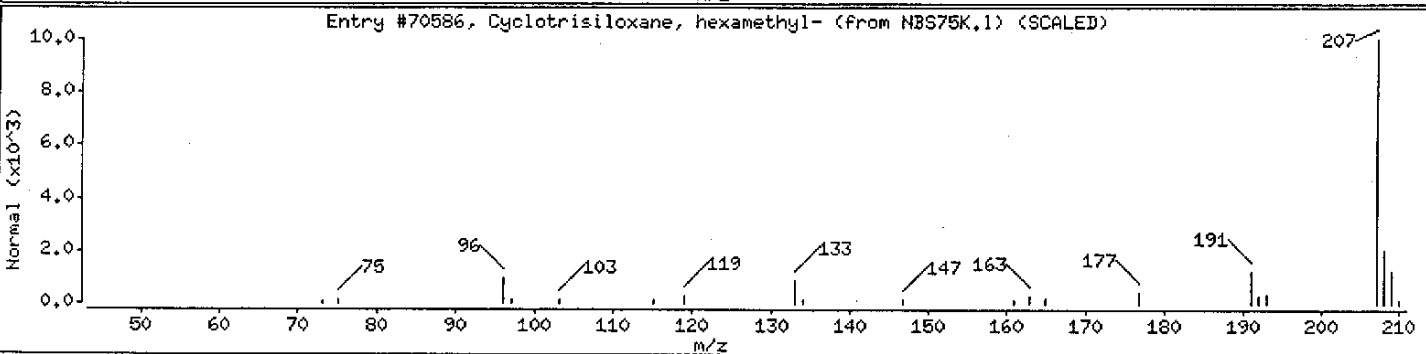
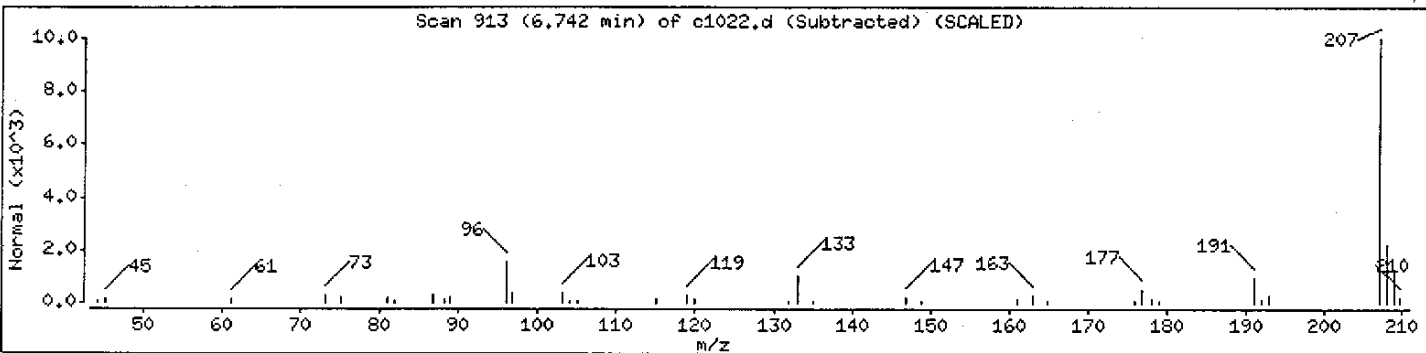
Purge Volume: 20.0

Operator: yanezj

Column phase: DB624

Column diameter: 0.53

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Cyclotrisiloxane, hexamethyl-	541-05-9	NBS75K.1	70586	90	C <sub>6</sub> H <sub>18</sub> OSi <sub>3</sub>	222



Date : 26-MAY-2004 11:22

Client ID: 01-MW-09

Instrument: C.i

Sample Info: GGJX91AA,,D4E190262-004

Purge Volume: 20.0

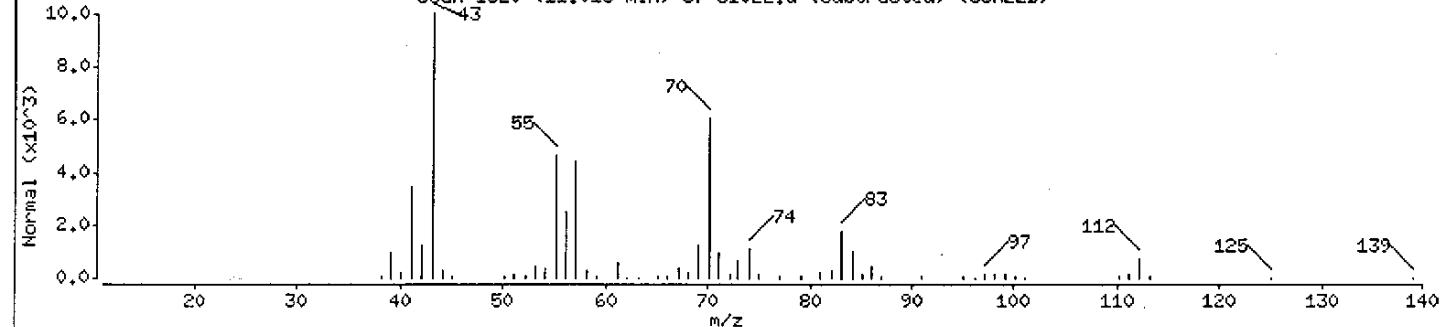
Operator: yanezj

Column phase: DB624

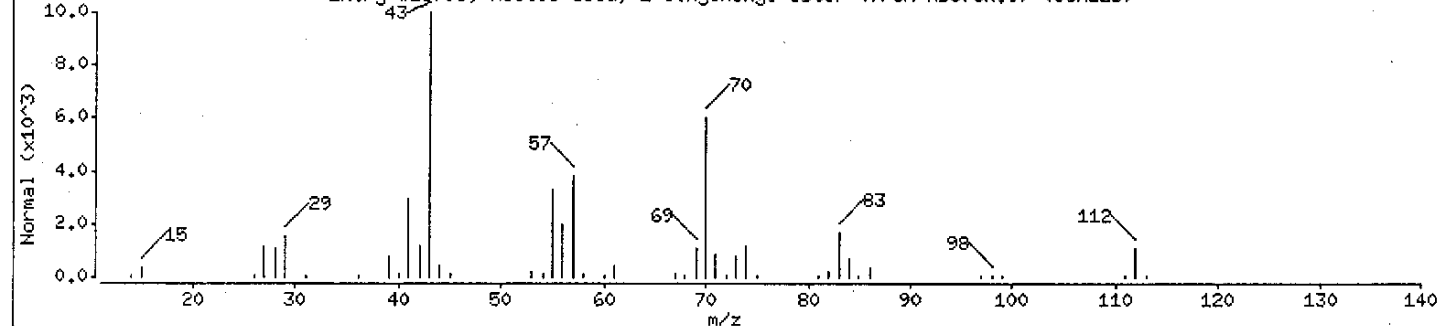
Column diameter: 0.53

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Acetic acid, 2-ethylhexyl ester	103-09-3	NBS75K.1	15793	90	C <sub>10</sub> H <sub>20</sub> O <sub>2</sub>	172
Cyclopentane, 1,2,3-trimethyl-, (1.alpha.	2613-69-6	NBS75K.1	64045	81	C <sub>8</sub> H <sub>16</sub>	112

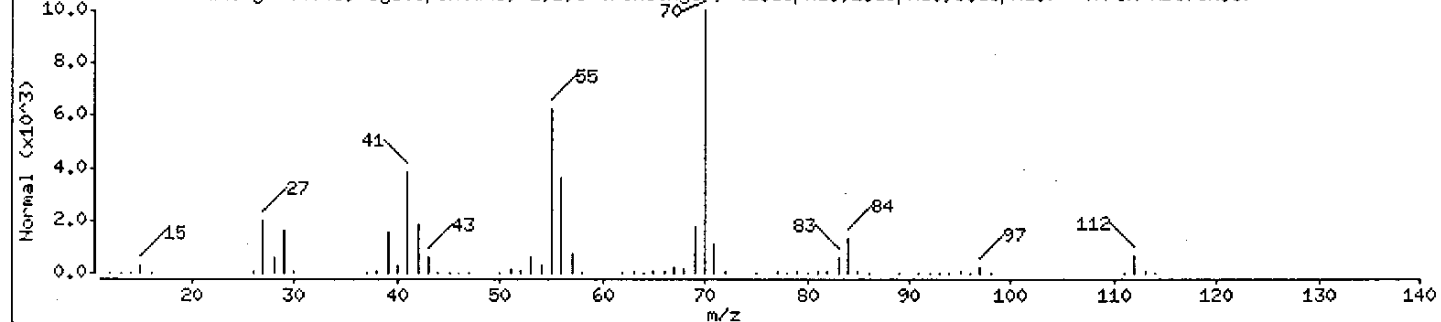
Scan 1620 (11.015 min) of c1022.d (Subtracted) (SCALED)



Entry #15793, Acetic acid, 2-ethylhexyl ester (from NBS75K.1) (SCALED)



Entry #64045, Cyclopentane, 1,2,3-trimethyl-, (1.alpha.,2.alpha.,3.alpha.)- (from NBS75K.1)



Date : 26-MAY-2004 11:22

Client ID: 01-MW-09

Instrument: C.i

Sample Info: GGJX91AA,,D4E190262-004

Purge Volume: 20.0

Operator: yanezj

Column phase: DB624

Column diameter: 0.53

Library Search Compound Match

CAS Number

Library

Entry

Quality

Formula

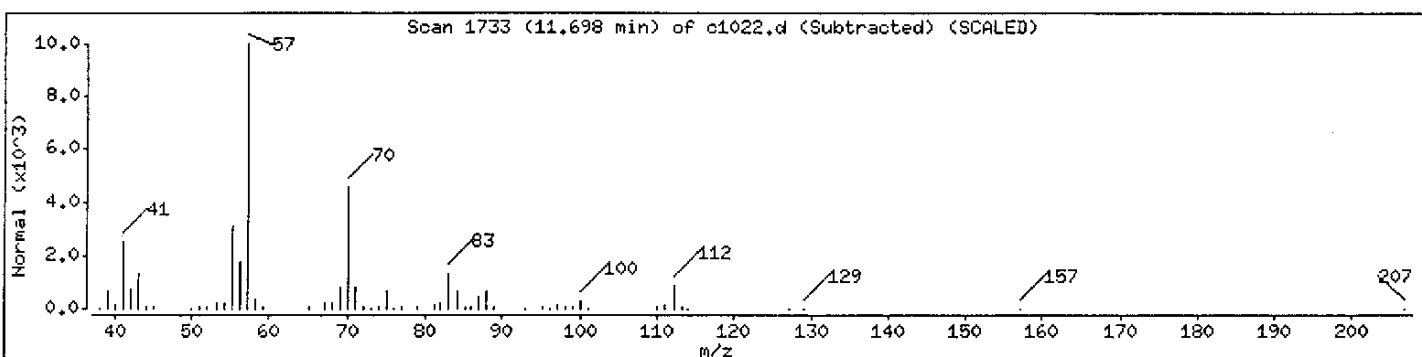
Weight

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0

0

0





Date : 26-MAY-2004 11:22

Client ID: 01-MW-09

Instrument: C.i

Sample Info: GGJX91AA,,D4E190262-004

Purge Volume: 20.0

Operator: yanezj

Column phase: DB624

Column diameter: 0.53

Library Search Compound Match

CAS Number

Library

Entry

Quality

Formula

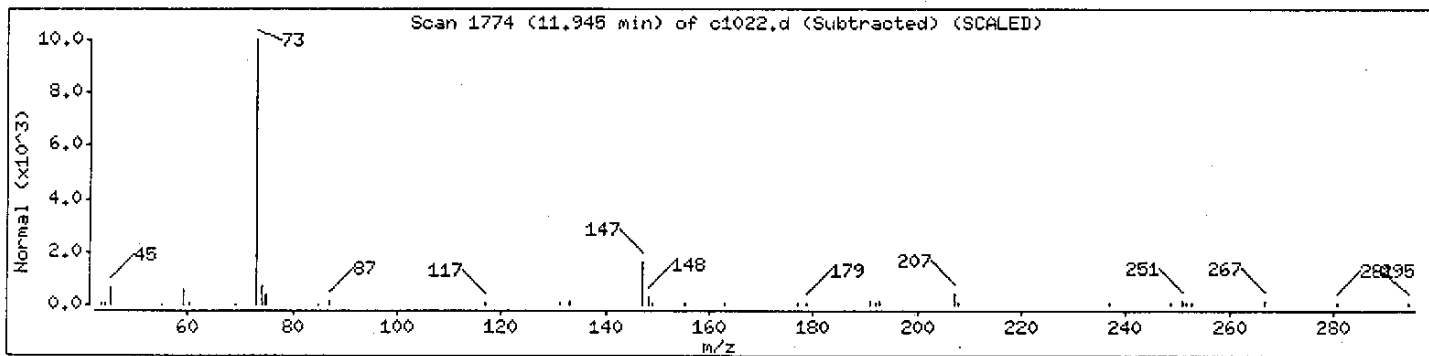
Weight

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0

0

0



STL Denver

VOLATILE REPORT SW-846

Data file : /chem/C.i/052604.b/c1023.d  
Lab Smp Id: GGJ0A1AA Client Smp ID: 01-MW-09DUP  
Inj Date : 26-MAY-2004 11:42  
Operator : yanezj Inst ID: C.i  
Smp Info : GGJ0A1AA,,D4E190262-005  
Misc Info :  
Comment : Purge and Trap Analysis  
Method : /chem/C.i/052604.b/C-20ml-AQ.m  
Meth Date : 27-May-2004 05:39 yanezj Quant Type: ISTD  
Cal Date : 10-MAY-2004 20:33 Cal File: c0458.d  
Als bottle: 2  
Dil Factor: 1.00000  
Integrator: Falcon Compound Sublist: QK-01.sub  
Target Version: 3.40  
Processing Host: chemsv02

05/27/04  
JMY

Concentration Formula: Amt \* DF \* Vp/Vs

Name	Value	Description
DF	1.000	Dilution Factor
Vp	20.000	Final Purge Volume (ml)
Vs	20.000	Sample Volume (ml)

Compounds	QUANT SIG	CONCENTRATIONS					
		MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN ( ug/L)
=====	====	==	=====	=====	=====	=====	=====
* 56 Fluorobenzene	96	4.107	4.107	(1.000)	1480328	10.0000	
* 81 Chlorobenzene-d5	119	7.563	7.563	(1.000)	219084	10.0000	
* 107 1,4-Dichlorobenzene-d4	152	9.721	9.721	(1.000)	259695	10.0000	
\$ 48 Dibromofluoromethane	111	3.236	3.236	(0.788)	277000	8.82400	8.82400
\$ 52 1,2-Dichloroethane-d4	65	3.672	3.678	(0.894)	282417	8.41060	8.41060
\$ 69 Toluene-d8	98	6.083	6.083	(0.804)	1134195	9.06919	9.06919
\$ 93 Bromofluorobenzene	95	8.693	8.693	(1.149)	311274	8.25592	8.25592
1 dichlorodifluoromethane	85.00	Compound Not Detected.					
2 dichlorotetrafluoroethane	85.00	Compound Not Detected.					
3 Chloromethane	50.00	Compound Not Detected.					
4 Vinyl Chloride	62.00	Compound Not Detected.					
5 Ethylene Oxide	43.00	Compound Not Detected.					
6 Bromomethane	94.00	Compound Not Detected.					
7 Chloroethane	64.00	Compound Not Detected.					
8 Dichlorofluoromethane	67.00	Compound Not Detected.					
9 Trichlorofluoromethane	101.00	Compound Not Detected.					

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN ( ug/L)	FINAL ( ug/L)
=====	=====	==	=====	=====	=====	=====	=====
10 Ethanol	45.00		Compound	Not Detected.			
11 Ethyl Ether	59.00		Compound	Not Detected.			
M 12 1,2-Dichloroethene (total)	96.00		Compound	Not Detected.			
13 1,2-dichloro-1,1,2-trifluoroet	117.00		Compound	Not Detected.			
14 2,2-dichloro-1,1,1-trifluoroet	83.00		Compound	Not Detected.			
15 Acrolein	56.00		Compound	Not Detected.			
16 Trichlorotrifluoroethane	151.00		Compound	Not Detected.			
17 1,1-Dichloroethene	96.00		Compound	Not Detected.			
M 18 Xylene (total)	106.00		Compound	Not Detected.			
19 Acetone	43.00		Compound	Not Detected.			
20 Iodomethane	142.00		Compound	Not Detected.			
21 Carbon Disulfide	76.00		Compound	Not Detected.			
22 2-Propanol	45.00		Compound	Not Detected.			
23 Allyl Chloride	41.00		Compound	Not Detected.			
24 Methyl acetate	43.00		Compound	Not Detected.			
25 Acetonitrile	41.00		Compound	Not Detected.			
26 Methylene Chloride	84	1.752	1.752	(0.427)	11794	0.35197	0.351967(a)
27 tert-Butyl alcohol	59.00		Compound	Not Detected.			
28 Methyl t-butyl ether	73.00		Compound	Not Detected.			
29 trans-1,2-Dichloroethene	96.00		Compound	Not Detected.			
30 Acrylonitrile	53.00		Compound	Not Detected.			
31 Hexane	57.00		Compound	Not Detected.			
32 1,1-Dichloroethane	63.00		Compound	Not Detected.			
33 Isopropyl ether	87.00		Compound	Not Detected.			
34 Chloroprene	53.00		Compound	Not Detected.			
35 Vinyl acetate	43.00		Compound	Not Detected.			
36 ETBE	59.00		Compound	Not Detected.			
37 2,2-Dichloropropane	77.00		Compound	Not Detected.			
38 cis-1,2-Dichloroethene	96.00		Compound	Not Detected.			
39 2-Butanone	43.00		Compound	Not Detected.			
40 Ethyl Acetate	43.00		Compound	Not Detected.			
41 Propionitrile	54.00		Compound	Not Detected.			
42 Bromochloromethane	128.00		Compound	Not Detected.			
43 Tetrahydrofuran	42.00		Compound	Not Detected.			
44 Methacrylonitrile	41.00		Compound	Not Detected.			
45 Chloroform	83.00		Compound	Not Detected.			
46 Cyclohexane	56.00		Compound	Not Detected.			
47 1,1,1-Trichloroethane	97.00		Compound	Not Detected.			
49 Carbon Tetrachloride	117.00		Compound	Not Detected.			
50 1,1-Dichloropropene	75.00		Compound	Not Detected.			
51 Benzene	78.00		Compound	Not Detected.			
53 Isobutanol	41.00		Compound	Not Detected.			
54 1,2-Dichloroethane	62.00		Compound	Not Detected.			
55 TAME	73.00		Compound	Not Detected.			
57 Trichloroethene	130.00		Compound	Not Detected.			
58 Methyl cyclohexane	55.00		Compound	Not Detected.			
59 n-Butanol	56.00		Compound	Not Detected.			

Compounds	QUANT SIG MASS						CONCENTRATIONS	
		RT	EXP RT	REL RT	RESPONSE		ON-COLUMN ( ug/L)	FINAL ( ug/L)
60 1,2-Dichloropropane	63.00				Compound Not Detected.			
61 2-Pentanone	43.00				Compound Not Detected.			
62 Dibromomethane	93.00				Compound Not Detected.			
63 1,4-Dioxane	88	5.146	5.146	(1.253)	35111	305.833	305.833	
64 Methyl Methacrylate	100.00				Compound Not Detected.			
65 Bromodichloromethane	83.00				Compound Not Detected.			
66 2-nitropropane	41.00				Compound Not Detected.			
67 2-Chloroethyl vinyl ether	63.00				Compound Not Detected.			
68 cis-1,3-Dichloropropene	75.00				Compound Not Detected.			
70 4-Methyl-2-pentanone	43.00				Compound Not Detected.			
71 Toluene	91.00				Compound Not Detected.			
72 trans-1,3-Dichloropropene	75.00				Compound Not Detected.			
73 Ethyl methacrylate	69.00				Compound Not Detected.			
74 1,1,2-Trichloroethane	97.00				Compound Not Detected.			
75 Tetrachloroethene	164.00				Compound Not Detected.			
76 1,3-Dichloropropane	76.00				Compound Not Detected.			
77 Tetrahydrothiophene	60.00				Compound Not Detected.			
78 2-Hexanone	43.00				Compound Not Detected.			
79 Dibromochloromethane	129.00				Compound Not Detected.			
80 1,2-Dibromoethane	107.00				Compound Not Detected.			
82 Chlorobenzene	112.00				Compound Not Detected.			
83 1-Chlorohexane	91.00				Compound Not Detected.			
84 1,1,1,2-Tetrachloroethane	131.00				Compound Not Detected.			
85 Ethylbenzene	106.00				Compound Not Detected.			
86 m and p-Xylene	106.00				Compound Not Detected.			
87 o-Xylene	106.00				Compound Not Detected.			
88 Styrene	104.00				Compound Not Detected.			
89 Bromoform	173.00				Compound Not Detected.			
90 isopropyl benzene	105.00				Compound Not Detected.			
91 Cyclohexanone	55.00				Compound Not Detected.			
92 cis-1,4-dichloro-2-butene	53.00				Compound Not Detected.			
94 Bromobenzene	156.00				Compound Not Detected.			
95 1,1,2,2-Tetrachloroethane	83.00				Compound Not Detected.			
96 1,2,3-Trichloropropane	110.00				Compound Not Detected.			
97 n-Propylbenzene	120.00				Compound Not Detected.			
98 t-1,4-Dichloro-2-butene	53.00				Compound Not Detected.			
99 2-Chlorotoluene	126.00				Compound Not Detected.			
100 4-Chlorotoluene	126.00				Compound Not Detected.			
101 1,3,5-Trimethylbenzene	105.00				Compound Not Detected.			
102 tert-Butylbenzene	119.00				Compound Not Detected.			
103 1,2,4-Trimethylbenzene	105.00				Compound Not Detected.			
104 sec-Butylbenzene	134.00				Compound Not Detected.			
105 m-Dichlorobenzene	146.00				Compound Not Detected.			
106 4-Isopropyltoluene	119.00				Compound Not Detected.			
108 p-dichlorobenzene	146.00				Compound Not Detected.			
109 1,2,3-Trimethylbenzene	105.00				Compound Not Detected.			
110 o-Dichlorobenzene	146.00				Compound Not Detected.			

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN	FINAL
	MASS					( ug/L)	( ug/L)
=====	=====	==	=====	=====	=====	=====	=====
111 n-Butylbenzene	91.00				Compound Not Detected.		
112 1,2-Dibromo-3-chloropropane	157.00				Compound Not Detected.		
113 1,2,4-Trichlorobenzene	180.00				Compound Not Detected.		
114 Hexachlorobutadiene	225.00				Compound Not Detected.		
115 Naphthalene	128.00				Compound Not Detected.		
116 1,2,3-Trichlorobenzene	180.00				Compound Not Detected.		

QC Flag Legend

a - Target compound detected but, quantitated amount  
Below Limit Of Quantitation(BLOQ).

STL Denver

VOLATILE REPORT SW-846

Data file : /chem/C.i/052604.b/c1023.d  
Lab Smp Id: GGJ0A1AA Client Smp ID: 01-MW-09DUP  
Inj Date : 26-MAY-2004 11:42  
Operator : yanezj Inst ID: C.i  
Smp Info : GGJ0A1AA,,D4E190262-005  
Misc Info :  
Comment : Purge and Trap Analysis  
Method : /chem/C.i/052604.b/C-20ml-AQ.m  
Meth Date : 27-May-2004 05:39 yanezj Quant Type: ISTD  
Cal Date : 10-MAY-2004 20:33 Cal File: c0458.d  
Als bottle: 2  
Dil Factor: 1.00000  
Integrator: Falcon Compound Sublist: QK-01.sub  
Target Version: 3.40  
Processing Host: chemsv02

Concentration Formula: Amt \* DF \* Vp/Vs

Name	Value	Description
DF	1.000	Dilution Factor
Vp	20.000	Final Purge Volume (ml)
Vs	20.000	Sample Volume (ml)

ISTD	RT	AREA	AMOUNT
=====	=====	=====	=====
* 107 1,4-Dichlorobenzene-d4	9.721	2057976	10.000

CONCENTRATIONS					QUANT		
RT	AREA	ON-COL( ug/L)	FINAL( ug/L)	QUAL	LIBRARY	LIB ENTRY	CPND #
=====	=====	=====	=====	=====	=====	=====	=====
Acetic acid, 2-ethylhexyl ester					CAS #: 103-09-3		
11.014	844422	4.10316738	4.10317	86	NBS75K.1	15793	107
Unknown					CAS #:		
11.697	304165	1.47798128	1.47798	0		0	107

STL Denver

INTERNAL STANDARD COMPOUNDS  
AREA AND RT SUMMARY

Instrument ID: C.i  
Lab File ID: c1023.d  
Lab Smp Id: GGJ0A1AA  
Analysis Type: VOA  
Quant Type: ISTD  
Operator: yanezj  
Method File: /chem/C.i/052604.b/C-20ml-AQ.m  
Misc Info:

Calibration Date: 05/26/4  
Calibration Time: 0712  
Client Smp ID: 01-MW-09DUP  
Level: LOW  
Sample Type: WATER

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
56 Fluorobenzene	1833520	916760	3667040	1480328	-19.26
81 Chlorobenzene-d5	260102	130051	520204	219084	-15.77
107 1,4-Dichlorobenze	288639	144320	577278	259695	-10.03

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
56 Fluorobenzene	4.11	3.61	4.61	4.11	0.00
81 Chlorobenzene-d5	7.56	7.06	8.06	7.56	0.00
107 1,4-Dichlorobenze	9.72	9.22	10.22	9.72	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.

STL Denver

RECOVERY REPORT

Client Name: Cabrera Services  
Sample Matrix: LIQUID  
Lab Smp Id: GGJ0A1AA  
Level: LOW  
Data Type: MS DATA  
SpikeList File: dcs-h20.spk  
Sublist File: QK-01.sub  
Method File: /chem/C.i/052604.b/C-20ml-AQ.m  
Misc Info:

Client SDG: D4E190262  
Fraction: VOA  
Client Smp ID: 01-MW-09DUP  
Operator: yanezj  
SampleType: SAMPLE  
Quant Type: ISTD

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
\$ 48 Dibromofluorometha	8.75000	8.82400	100.85	76-116
\$ 52 1,2-Dichloroethane	8.75000	8.41060	96.12	59-129
\$ 69 Toluene-d8	8.75000	9.06919	103.65	76-116
\$ 93 Bromofluorobenzene	8.75000	8.25592	94.35	74-114



Data File: /chem/C.i/052604.b/c1023.d

Page 8

Date : 26-MAY-2004 11:42

Client ID: 01-MM-09DUP

Sample Info: GGJ0A1AA,,D4E190262-005

Purge Volume: 20.0

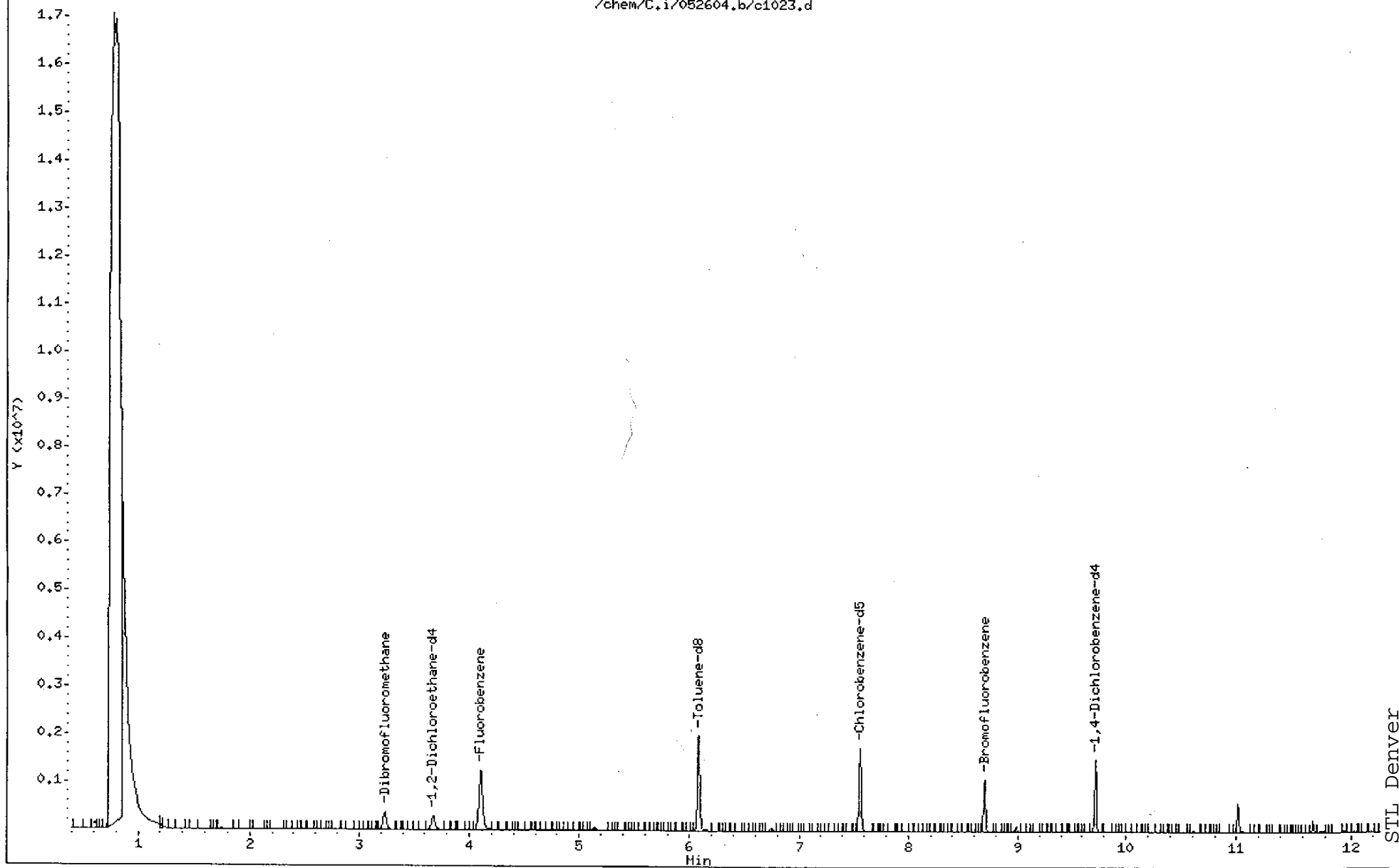
Column phase: DB624

Instrument: C.i

Operator: yanezj

Column diameter: 0.53

/chem/C.i/052604.b/c1023.d



Date : 26-MAY-2004 11:42

Client ID: 01-MW-09DUP

Instrument: C.i

Sample Info: GGJ0A1AA,,D4E190262-005

Purge Volume: 20.0

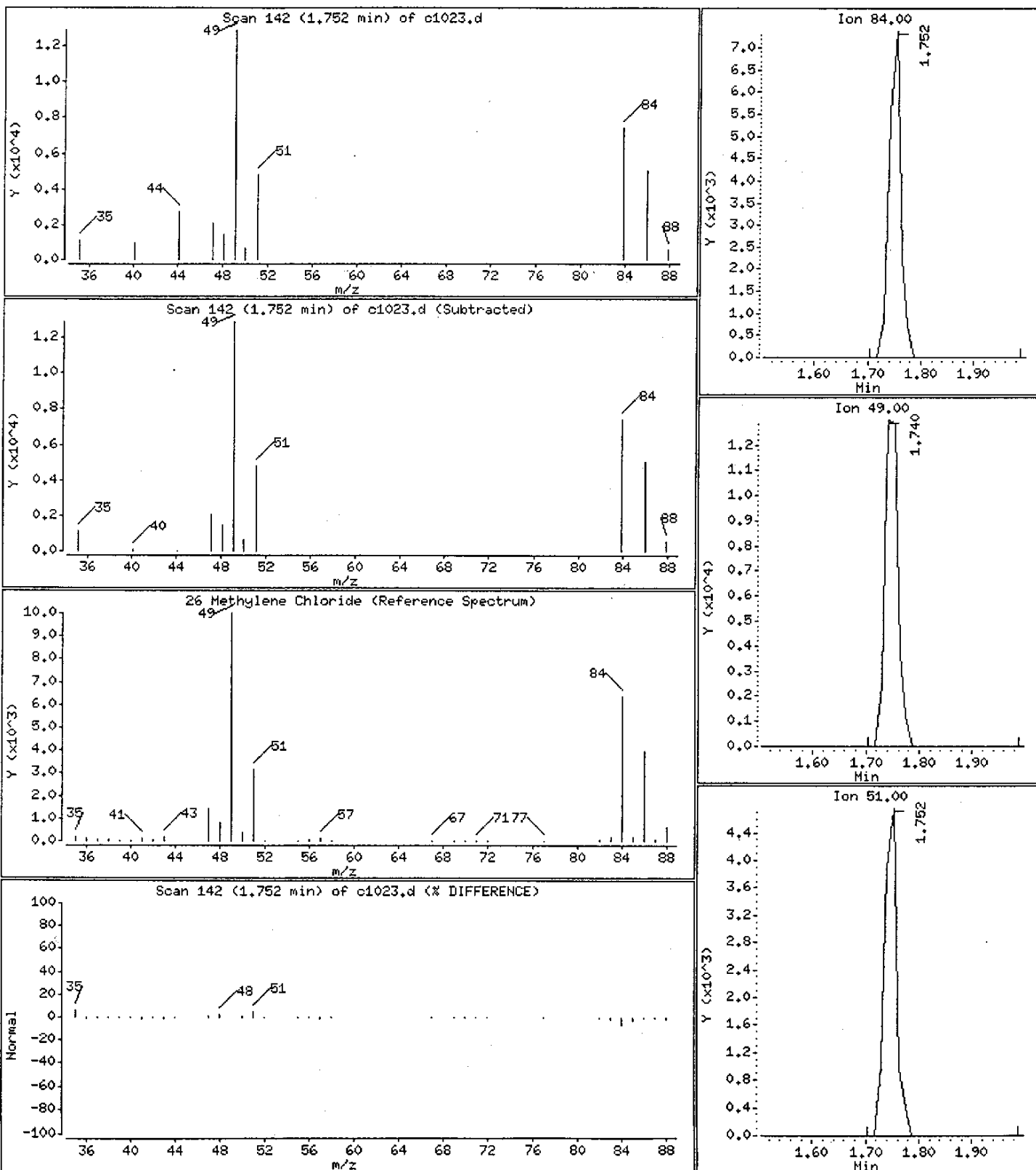
Operator: yanezj

Column phase: DB624

Column diameter: 0.53

26 Methylene Chloride

Concentration: 0.351967 ug/L



Date : 26-MAY-2004 11:42

Client ID: 01-MW-09DUP

Instrument: C.i

Sample Info: GGJ0A1AA,,D4E190262-005

Purge Volume: 20.0

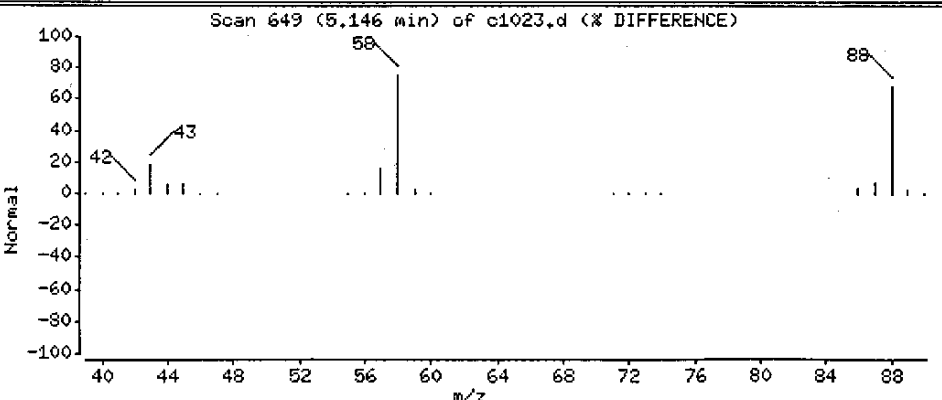
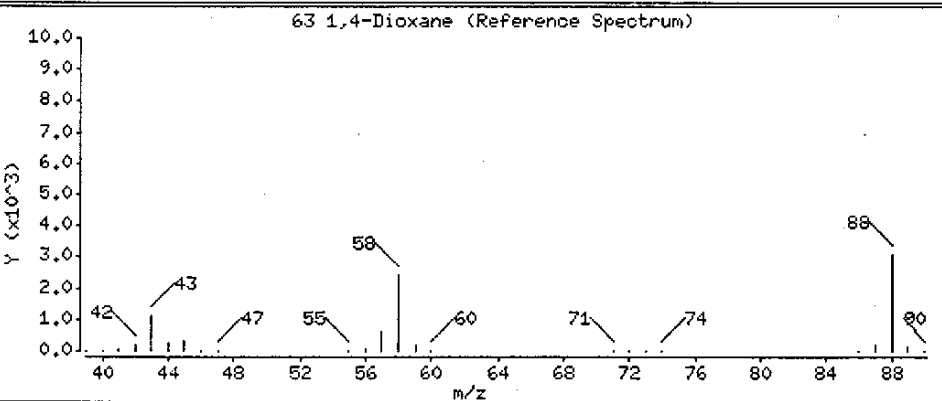
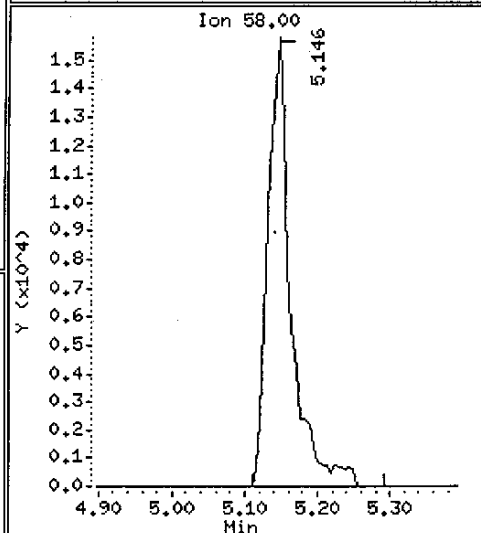
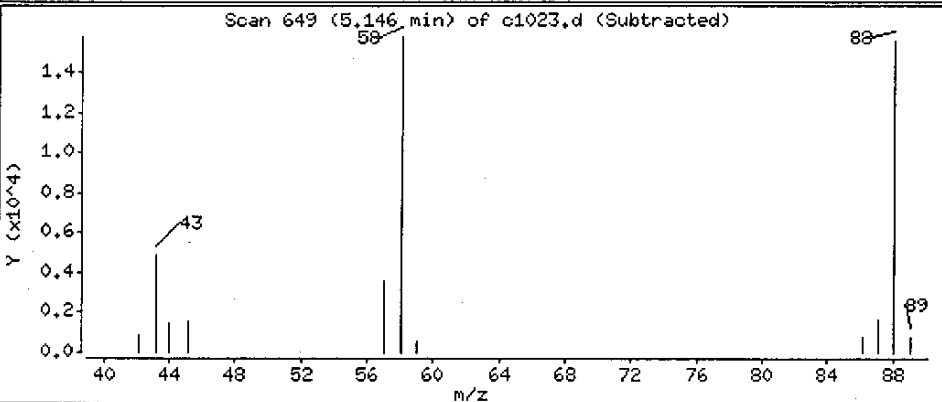
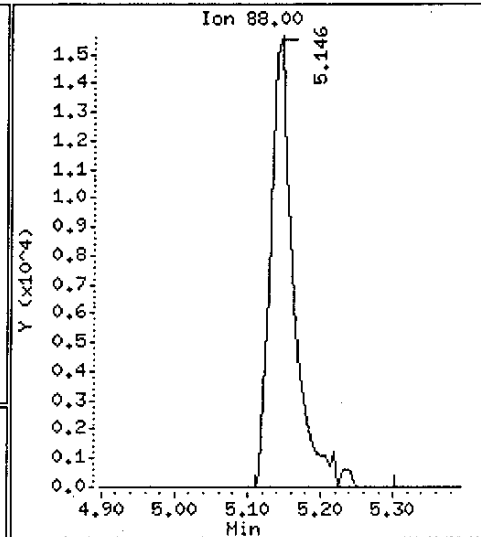
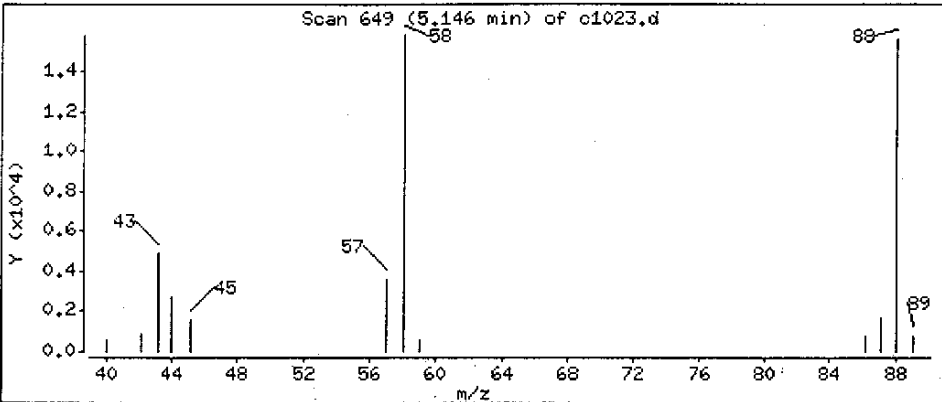
Operator: yanezj

Column phase: DB624

Column diameter: 0.53

63 1,4-Dioxane

Concentration: 305.833 ug/L



Date : 26-MAY-2004 11:42

Client ID: 01-MW-09DUP

Instrument: C.i

Sample Info: GCJ0A1AA,,D4E190262-005

Purge Volume: 20.0

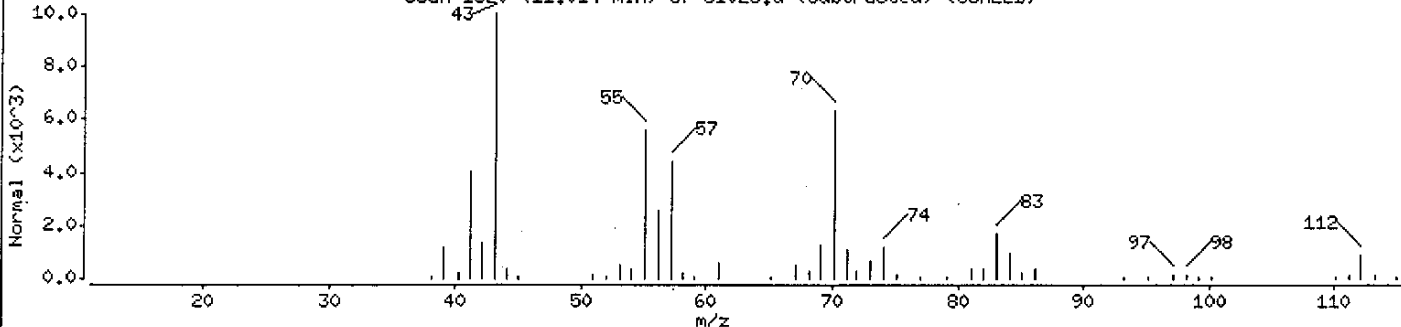
Operator: yanezj

Column phase: DB624

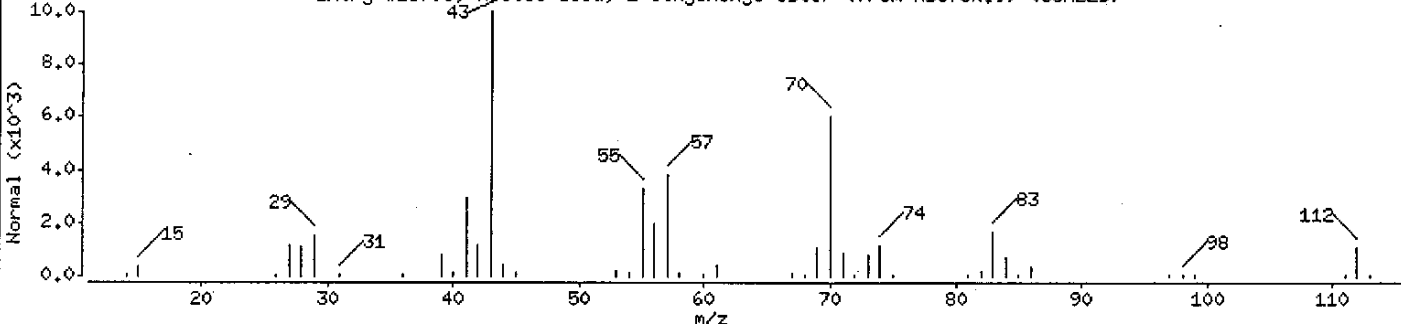
Column diameter: 0.53

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Acetic acid, 2-ethylhexyl ester	103-09-3	NBS75K.1	15793	86	C10H20O2	172
Cyclopentane, 1,2,3-trimethyl-, (1.alpha.	2613-69-6	NBS75K.1	64045	81	C8H16	112

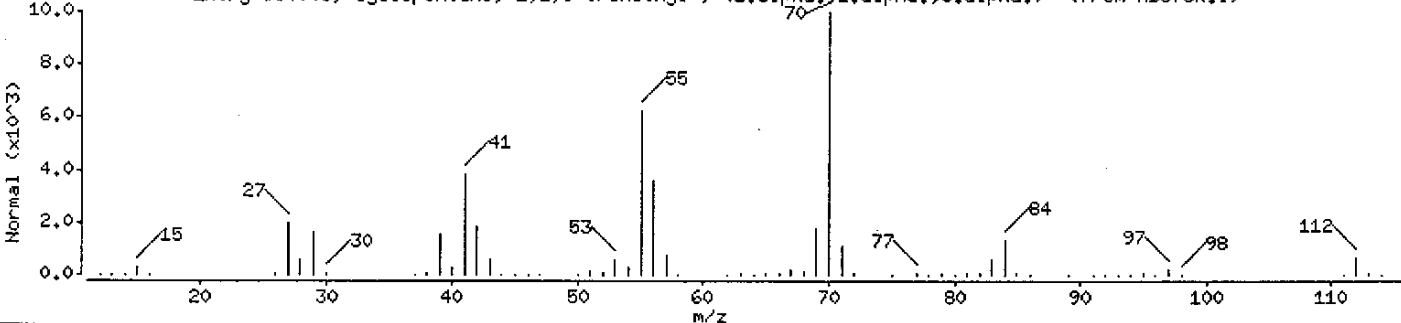
Scan 1620 (11.014 min) of c1023.d (Subtracted) (SCALED)



Entry #15793, Acetic acid, 2-ethylhexyl ester (from NBS75K.1) (SCALED)



Entry #64045, Cyclopentane, 1,2,3-trimethyl-, (1.alpha.,2.alpha.,3.alpha.)- (from NBS75K.1)



Date : 26-MAY-2004 11:42

Client ID: 01-MW-09DUP

Instrument: C.i

Sample Info: GGJ0A1AA,,D4E190262-005

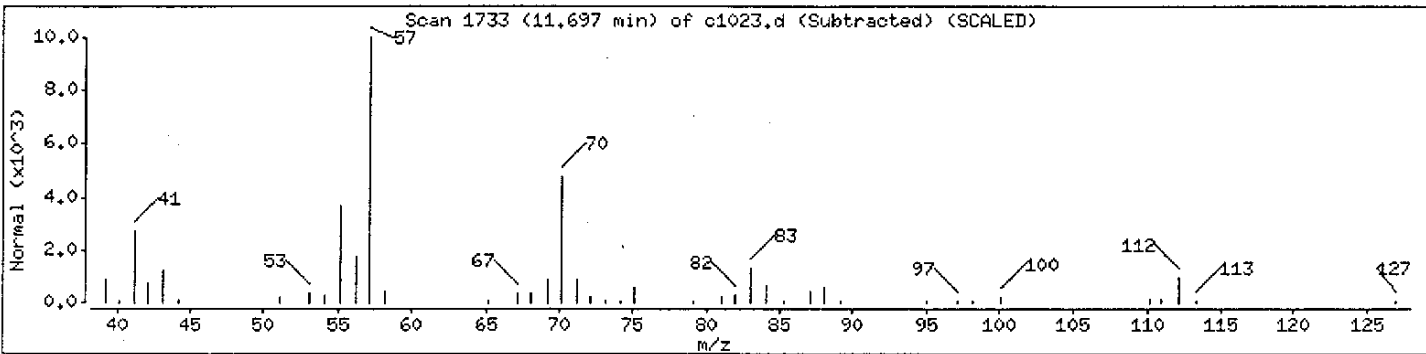
Purge Volume: 20.0

Operator: yanezj

Column phase: DB624

Column diameter: 0.53

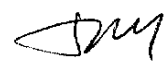
Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown			0	0		0



STL Denver

VOLATILE REPORT SW-846

Data file : /chem/C.i/052604.b/c1026.d  
Lab Smp Id: GGJ2F1AA Client Smp ID: TRIP BLANK  
Inj Date : 26-MAY-2004 13:01  
Operator : yanezj Inst ID: C.i  
Smp Info : GGJ2F1AA,,D4E190262-006  
Misc Info :  
Comment : Purge and Trap Analysis  
Method : /chem/C.i/052604.b/C-20ml-AQ.m  
Meth Date : 27-May-2004 05:39 yanezj Quant Type: ISTD  
Cal Date : 10-MAY-2004 20:33 Cal File: c0458.d  
Als bottle: 2  
Dil Factor: 1.00000  
Integrator: Falcon Compound Sublist: QK-01.sub  
Target Version: 3.40  
Processing Host: chemsv02

05/27/04  


Concentration Formula: Amt \* DF \* Vp/Vs

Name	Value	Description
DF	1.000	Dilution Factor
Vp	20.000	Final Purge Volume (ml)
Vs	20.000	Sample Volume (ml)

Compounds	QUANT SIG					CONCENTRATIONS	
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN ( ug/L)	FINAL ( ug/L)
* 56 Fluorobenzene	96	4.106	4.107	(1.000)	1245808	10.0000	
* 81 Chlorobenzene-d5	119	7.563	7.563	(1.000)	187027	10.0000	
* 107 1,4-Dichlorobenzene-d4	152	9.720	9.721	(1.000)	214121	10.0000	
\$ 48 Dibromofluoromethane	111	3.236	3.236	(0.788)	222842	8.43509	8.43508
\$ 52 1,2-Dichloroethane-d4	65	3.677	3.678	(0.895)	216126	7.64803	7.64803
\$ 69 Toluene-d8	98	6.082	6.083	(0.804)	979683	9.17641	9.17641
\$ 93 Bromofluorobenzene	95	8.693	8.693	(1.149)	256487	7.96883	7.96882
1 dichlorodifluoromethane	85.00				Compound Not Detected.		
2 dichlorotetrafluoroethane	85.00				Compound Not Detected.		
3 Chloromethane	50.00				Compound Not Detected.		
4 Vinyl Chloride	62.00				Compound Not Detected.		
5 Ethylene Oxide	43.00				Compound Not Detected.		
6 Bromomethane	94.00				Compound Not Detected.		
7 Chloroethane	64.00				Compound Not Detected.		
8 Dichlorofluoromethane	67.00				Compound Not Detected.		
9 Trichlorofluoromethane	101.00				Compound Not Detected.		

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN ( ug/L)	FINAL ( ug/L)
=====	=====	==	=====	=====	=====	=====	=====
10 Ethanol	45.00				Compound Not Detected.		
11 Ethyl Ether	59.00				Compound Not Detected.		
M 12 1,2-Dichloroethene (total)	96.00				Compound Not Detected.		
13 1,2-dichloro-1,1,2-trifluoroet	117.00				Compound Not Detected.		
14 2,2-dichloro-1,1,1-trifluoroet	83.00				Compound Not Detected.		
15 Acrolein	56.00				Compound Not Detected.		
16 Trichlorotrifluoroethane	151.00				Compound Not Detected.		
17 1,1-Dichloroethene	96.00				Compound Not Detected.		
M 18 Xylene (total)	106.00				Compound Not Detected.		
19 Acetone	43.00				Compound Not Detected.		
20 Iodomethane	142.00				Compound Not Detected.		
21 Carbon Disulfide	76.00				Compound Not Detected.		
22 2-Propanol	45.00				Compound Not Detected.		
23 Allyl Chloride	41.00				Compound Not Detected.		
24 Methyl acetate	43.00				Compound Not Detected.		
25 Acetonitrile	41.00				Compound Not Detected.		
26 Methylene Chloride	84	1.753	1.752	(0.427)	20908	0.74141	0.741412(a)
27 tert-Butyl alcohol	59.00				Compound Not Detected.		
28 Methyl t-butyl ether	73.00				Compound Not Detected.		
29 trans-1,2-Dichloroethene	96.00				Compound Not Detected.		
30 Acrylonitrile	53.00				Compound Not Detected.		
31 Hexane	57.00				Compound Not Detected.		
32 1,1-Dichloroethane	63.00				Compound Not Detected.		
33 Isopropyl ether	87.00				Compound Not Detected.		
34 Chloroprene	53.00				Compound Not Detected.		
35 Vinyl acetate	43.00				Compound Not Detected.		
36 ETBE	59.00				Compound Not Detected.		
37 2,2-Dichloropropane	77.00				Compound Not Detected.		
38 cis-1,2-Dichloroethene	96.00				Compound Not Detected.		
39 2-Butanone	43.00				Compound Not Detected.		
40 Ethyl Acetate	43.00				Compound Not Detected.		
41 Propionitrile	54.00				Compound Not Detected.		
42 Bromochloromethane	128.00				Compound Not Detected.		
43 Tetrahydrofuran	42.00				Compound Not Detected.		
44 Methacrylonitrile	41.00				Compound Not Detected.		
45 Chloroform	83.00				Compound Not Detected.		
46 Cyclohexane	56.00				Compound Not Detected.		
47 1,1,1-Trichloroethane	97.00				Compound Not Detected.		
49 Carbon Tetrachloride	117.00				Compound Not Detected.		
50 1,1-Dichloropropene	75.00				Compound Not Detected.		
51 Benzene	78.00				Compound Not Detected.		
53 Isobutanol	41.00				Compound Not Detected.		
54 1,2-Dichloroethane	62.00				Compound Not Detected.		
55 TAME	73.00				Compound Not Detected.		
57 Trichloroethene	130.00				Compound Not Detected.		
58 Methyl cyclohexane	55.00				Compound Not Detected.		
59 n-Butanol	56.00				Compound Not Detected.		

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN	FINAL
	MASS					( ug/L)	( ug/L)
=====	=====	==	=====	=====	=====	=====	=====
60 1,2-Dichloropropane	63.00		Compound	Not Detected.			
61 2-Pentanone	43.00		Compound	Not Detected.			
62 Dibromomethane	93.00		Compound	Not Detected.			
63 1,4-Dioxane	88.00		Compound	Not Detected.			
64 Methyl Methacrylate	100.00		Compound	Not Detected.			
65 Bromodichloromethane	83.00		Compound	Not Detected.			
66 2-nitropropane	41.00		Compound	Not Detected.			
67 2-Chloroethyl vinyl ether	63.00		Compound	Not Detected.			
68 cis-1,3-Dichloropropene	75.00		Compound	Not Detected.			
70 4-Methyl-2-pentanone	43.00		Compound	Not Detected.			
71 Toluene	91.00		Compound	Not Detected.			
72 trans-1,3-Dichloropropene	75.00		Compound	Not Detected.			
73 Ethyl methacrylate	69.00		Compound	Not Detected.			
74 1,1,2-Trichloroethane	97.00		Compound	Not Detected.			
75 Tetrachloroethane	164.00		Compound	Not Detected.			
76 1,3-Dichloropropane	76.00		Compound	Not Detected.			
77 Tetrahydrothiophene	60.00		Compound	Not Detected.			
78 2-Hexanone	43.00		Compound	Not Detected.			
79 Dibromochloromethane	129.00		Compound	Not Detected.			
80 1,2-Dibromoethane	107.00		Compound	Not Detected.			
82 Chlorobenzene	112.00		Compound	Not Detected.			
83 1-Chlorohexane	91.00		Compound	Not Detected.			
84 1,1,1,2-Tetrachloroethane	131.00		Compound	Not Detected.			
85 Ethylbenzene	106.00		Compound	Not Detected.			
86 m and p-Xylene	106.00		Compound	Not Detected.			
87 o-Xylene	106.00		Compound	Not Detected.			
88 Styrene	104.00		Compound	Not Detected.			
89 Bromoform	173.00		Compound	Not Detected.			
90 isopropyl benzene	105.00		Compound	Not Detected.			
91 Cyclohexanone	55.00		Compound	Not Detected.			
92 cis-1,4-dichloro-2-butene	53.00		Compound	Not Detected.			
94 Bromobenzene	156.00		Compound	Not Detected.			
95 1,1,2,2-Tetrachloroethane	83.00		Compound	Not Detected.			
96 1,2,3-Trichloropropane	110.00		Compound	Not Detected.			
97 n-Propylbenzene	120.00		Compound	Not Detected.			
98 t-1,4-Dichloro-2-butene	53.00		Compound	Not Detected.			
99 2-Chlorotoluene	126.00		Compound	Not Detected.			
100 4-Chlorotoluene	126.00		Compound	Not Detected.			
101 1,3,5-Trimethylbenzene	105.00		Compound	Not Detected.			
102 tert-Butylbenzene	119.00		Compound	Not Detected.			
103 1,2,4-Trimethylbenzene	105.00		Compound	Not Detected.			
104 sec-Butylbenzene	134.00		Compound	Not Detected.			
105 m-Dichlorobenzene	146.00		Compound	Not Detected.			
106 4-Isopropyltoluene	119.00		Compound	Not Detected.			
108 p-dichlorobenzene	146.00		Compound	Not Detected.			
109 1,2,3-Trimethylbenzene	105.00		Compound	Not Detected.			
110 o-Dichlorobenzene	146.00		Compound	Not Detected.			



Compounds	QUANT SIG						CONCENTRATIONS	
		RT	EXP RT	REL RT	RESPONSE		ON-COLUMN	FINAL
	MASS						( ug/L)	( ug/L)
-----	----	--	-----	-----	-----		-----	-----
111 n-Butylbenzene	91.00		Compound	Not	Detected.			
112 1,2-Dibromo-3-chloropropane	157.00		Compound	Not	Detected.			
113 1,2,4-Trichlorobenzene	180.00		Compound	Not	Detected.			
114 Hexachlorobutadiene	225.00		Compound	Not	Detected.			
115 Naphthalene	128.00		Compound	Not	Detected.			
116 1,2,3-Trichlorobenzene	180.00		Compound	Not	Detected.			

QC Flag Legend

a - Target compound detected but, quantitated amount  
Below Limit Of Quantitation(BLOQ).

STL Denver

VOLATILE REPORT SW-846

Data file : /chem/C.i/052604.b/c1026.d  
Lab Smp Id: GGJ2F1AA Client Smp ID: TRIP BLANK  
Inj Date : 26-MAY-2004 13:01  
Operator : yanezj Inst ID: C.i  
Smp Info : GGJ2F1AA,,D4E190262-006  
Misc Info :  
Comment : Purge and Trap Analysis  
Method : /chem/C.i/052604.b/C-20ml-AQ.m  
Meth Date : 27-May-2004 05:39 yanezj Quant Type: ISTD  
Cal Date : 10-MAY-2004 20:33 Cal File: c0458.d  
Als bottle: 2  
Dil Factor: 1.00000  
Integrator: Falcon Compound Sublist: QK-01.sub  
Target Version: 3.40  
Processing Host: chemsv02

Concentration Formula: Amt \* DF \* Vp/Vs

Name	Value	Description
DF	1.000	Dilution Factor
Vp	20.000	Final Purge Volume (ml)
Vs	20.000	Sample Volume (ml)

ISTD	RT	AREA	AMOUNT
=====	====	=====	=====
* 107 1,4-Dichlorobenzene-d4	9.720	1682558	10.000

CONCENTRATIONS					QUANT		
RT	AREA	ON-COL( ug/L)	FINAL( ug/L)	QUAL	LIBRARY	LIB ENTRY	CPND #
====	====	=====	=====	====	=====	=====	=====
Cyclotetrasiloxane, octamethyl-					CAS #: 556-67-2		
8.983	208871	1.24138960	1.24139	86	NBS75K.1	41966	107
Acetic acid, 2-ethylhexyl ester					CAS #: 103-09-3		
11.013	1311100	7.79230196	7.79230	80	NBS75K.1	15793	107
Unknown					CAS #:		
11.702	1530678	9.09732681	9.09733	0		0	107

STL Denver

INTERNAL STANDARD COMPOUNDS  
AREA AND RT SUMMARY

Instrument ID: C.i  
Lab File ID: c1026.d  
Lab Smp Id: GGJ2F1AA  
Analysis Type: VOA  
Quant Type: ISTD  
Operator: yanezj  
Method File: /chem/C.i/052604.b/C-20ml-AQ.m  
Misc Info:

Calibration Date: 05/26/4  
Calibration Time: 0712  
Client Smp ID: TRIP BLANK  
Level: LOW  
Sample Type: WATER

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
56 Fluorobenzene	1833520	916760	3667040	1245808	-32.05
81 Chlorobenzene-d5	260102	130051	520204	187027	-28.09
107 1,4-Dichlorobenze	288639	144320	577278	214121	-25.82

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
56 Fluorobenzene	4.11	3.61	4.61	4.11	-0.02
81 Chlorobenzene-d5	7.56	7.06	8.06	7.56	-0.01
107 1,4-Dichlorobenze	9.72	9.22	10.22	9.72	-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.

STL Denver

RECOVERY REPORT

Client Name: Cabrera Services  
Sample Matrix: LIQUID  
Lab Smp Id: GGJ2F1AA  
Level: LOW  
Data Type: MS DATA  
SpikeList File: dcs-h20.spk  
Sublist File: QK-01.sub  
Method File: /chem/C.i/052604.b/C-20ml-AQ.m  
Misc Info:

Client SDG: D4E190262  
Fraction: VOA  
Client Smp ID: TRIP BLANK  
Operator: yanezj  
SampleType: SAMPLE  
Quant Type: ISTD

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
\$ 48 Dibromofluorometha	8.75000	8.43508	96.40	76-116
\$ 52 1,2-Dichloroethane	8.75000	7.64803	87.41	59-129
\$ 69 Toluene-d8	8.75000	9.17641	104.87	76-116
\$ 93 Bromofluorobenzene	8.75000	7.96882	91.07	74-114

Data File: /chem/C.i/052604.b/c1026.d

Page 8

Date : 26-MAY-2004 13:01

Client ID: TRIP BLANK

Sample Info: GGJ2F1AA,,D4E190262-006

Purge Volume: 20.0

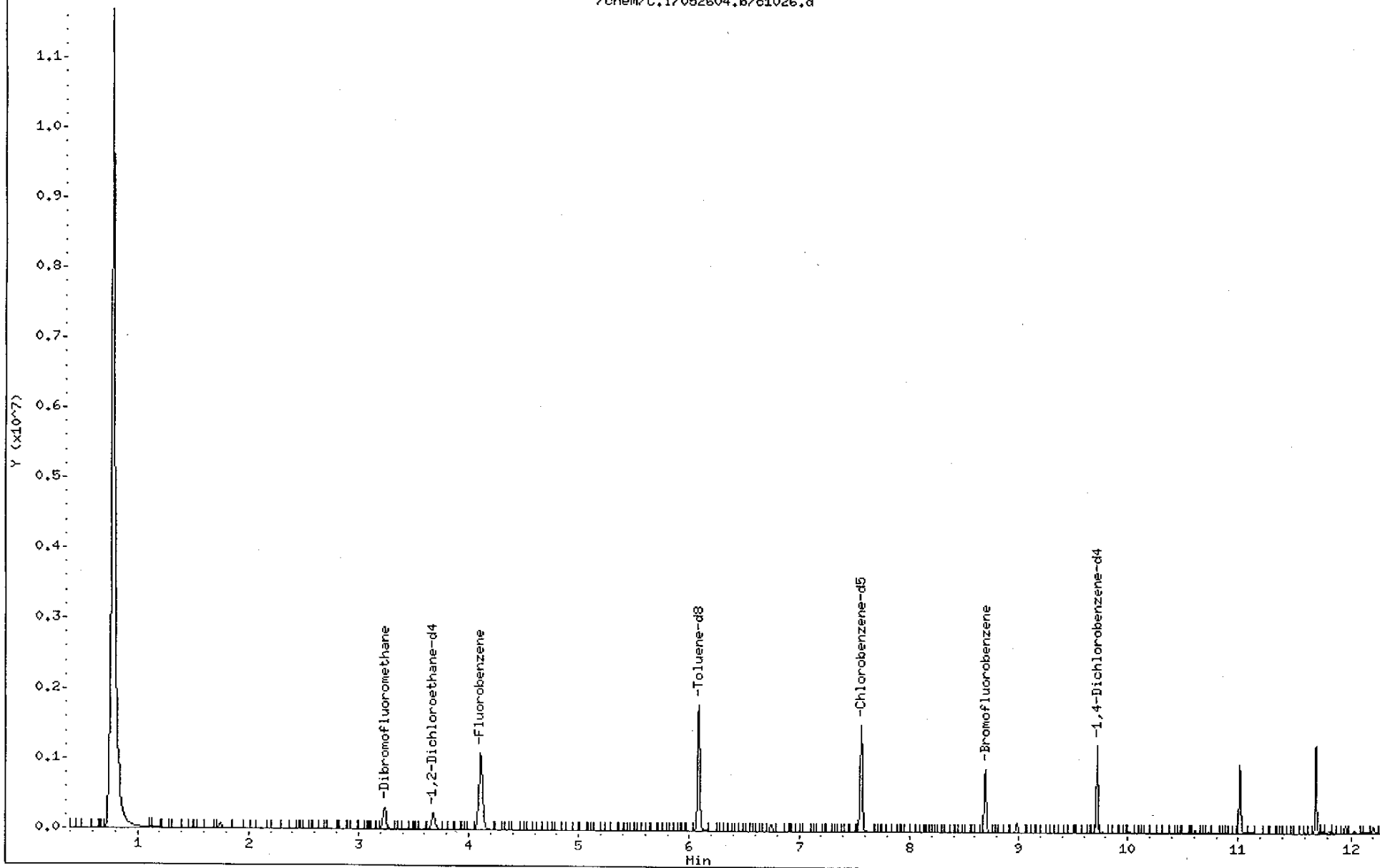
Column phase: DB624

Instrument: C.i

Operator: yanezj

Column diameter: 0.53

/chem/C.i/052604.b/c1026.d



Date : 26-MAY-2004 13:01

Client ID: TRIP BLANK

Instrument: C.i

Sample Info: GGJ2F1AA,,D4E190262-006

Purge Volume: 20.0

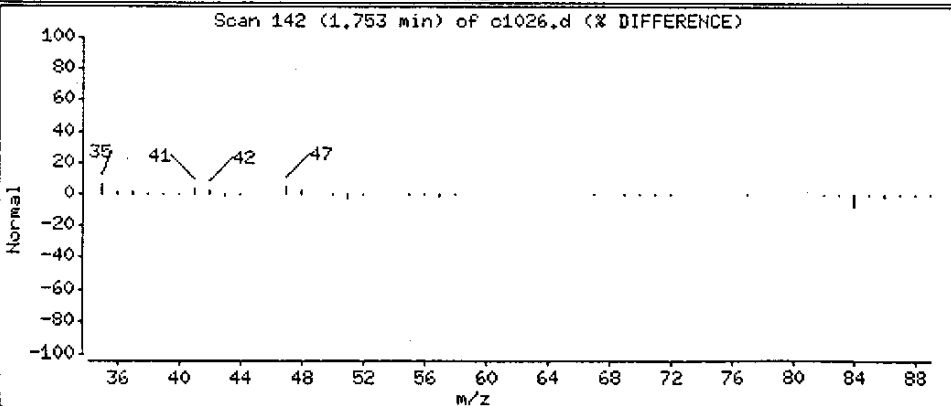
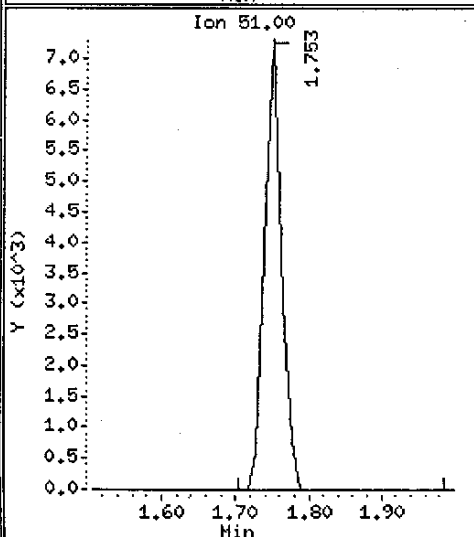
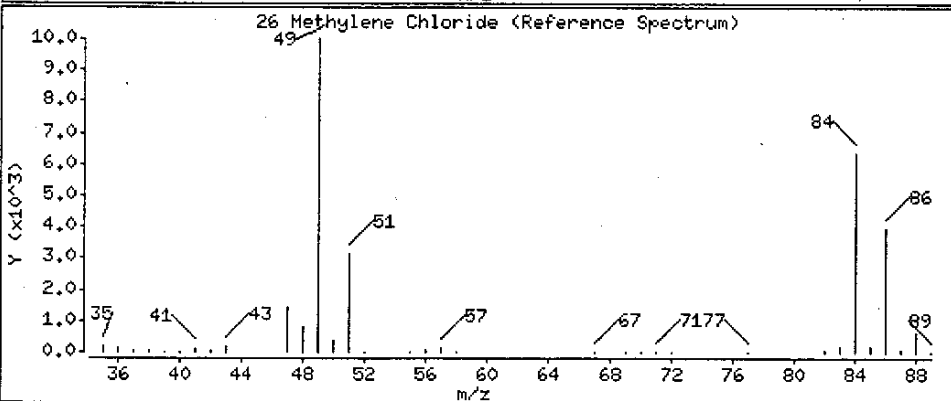
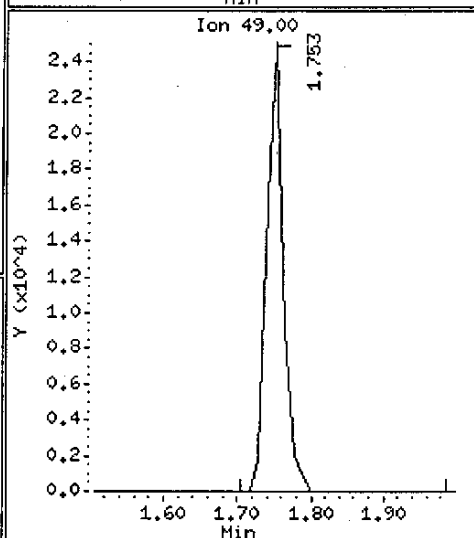
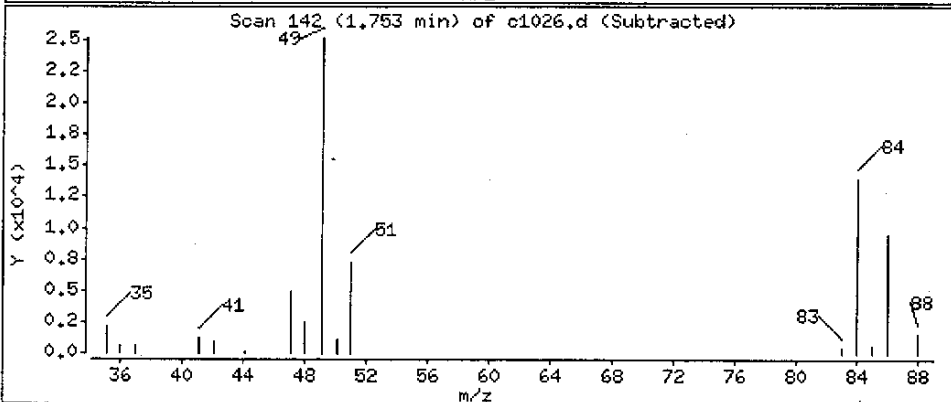
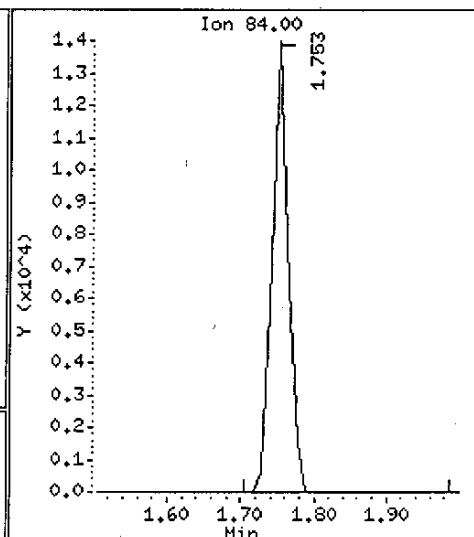
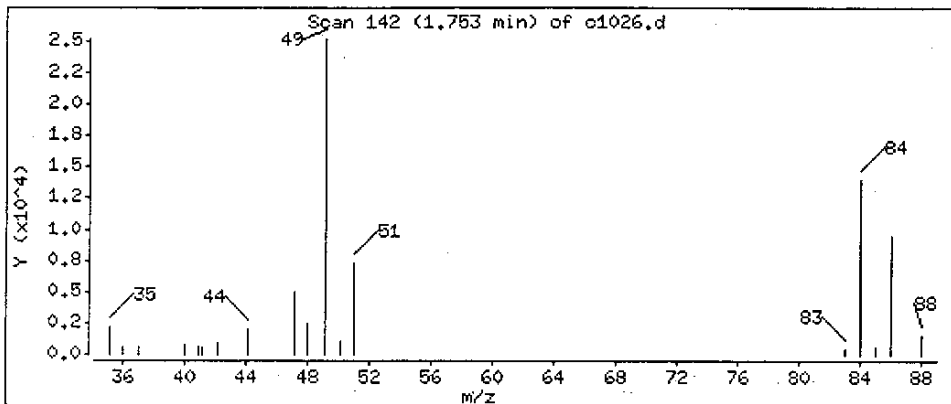
Operator: yanezj

Column phase: DB624

Column diameter: 0.53

26 Methylene Chloride

Concentration: 0.741412 ug/L



Date : 26-MAY-2004 13:01

Client ID: TRIP BLANK

Instrument: C.i

Sample Info: GGJ2F1AA,,D4E190262-006

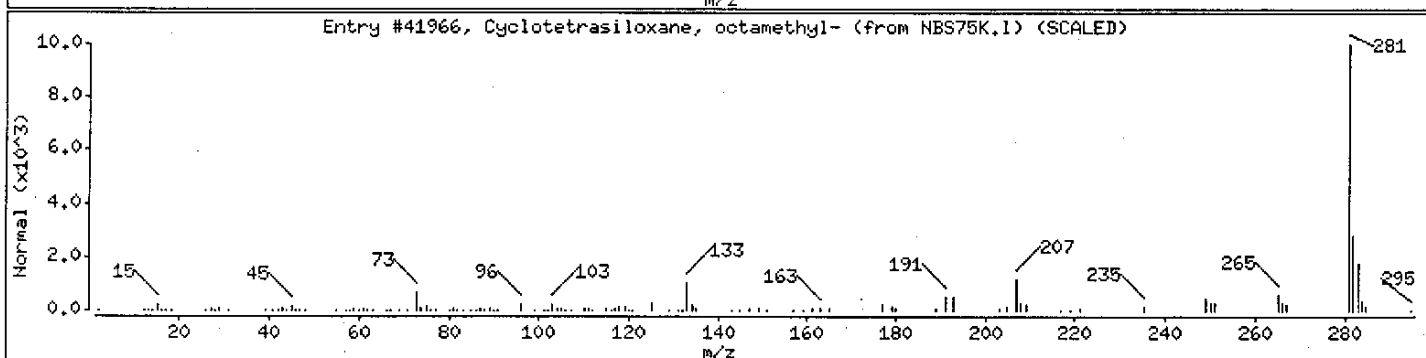
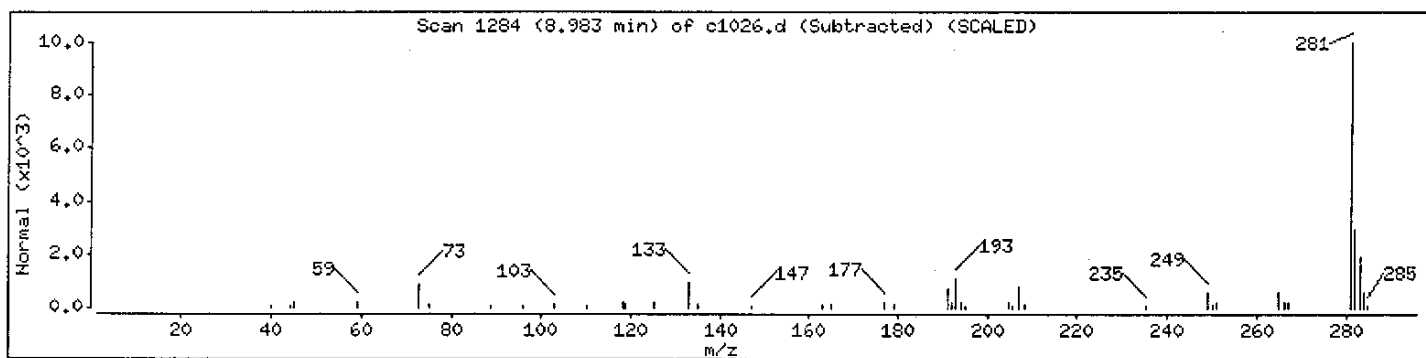
Purge Volume: 20.0

Operator: yanezj

Column phase: DB624

Column diameter: 0.53

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Cyclotetrasiloxane, octamethyl-	556-67-2	NBS75K.1	41966	86	C <sub>8</sub> H <sub>24</sub> O <sub>4</sub> Si <sub>4</sub>	296



Date : 26-MAY-2004 13:01

Client ID: TRIP BLANK

Instrument: C.i

Sample Info: GGJ2F1AA,,D4E190262-006

Purge Volume: 20.0

Operator: yanezj

Column phase: DB624

Column diameter: 0.53

Library Search Compound Match

CAS Number

Library

Entry

Quality

Formula

Weight

Acetic acid, 2-ethylhexyl ester

103-09-3

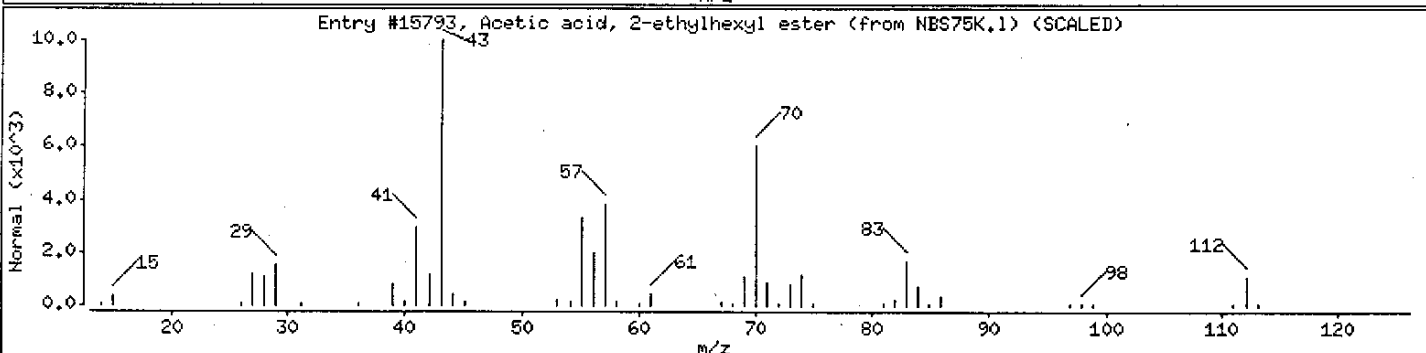
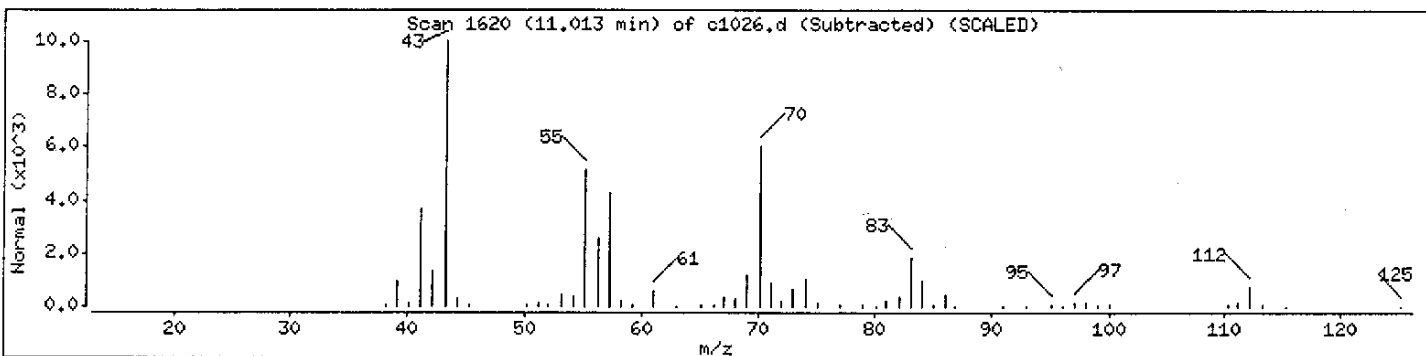
NBS75K.1

15793

80

C10H20O2

172





Date : 26-MAY-2004 13:01

Client ID: TRIP BLANK

Instrument: C.i

Sample Info: GGJ2F1AA,,D4E190262-006

Purge Volume: 20.0

Operator: yanezj

Column phase: DB624

Column diameter: 0.53

Library Search Compound Match

CAS Number

Library

Entry

Quality Formula

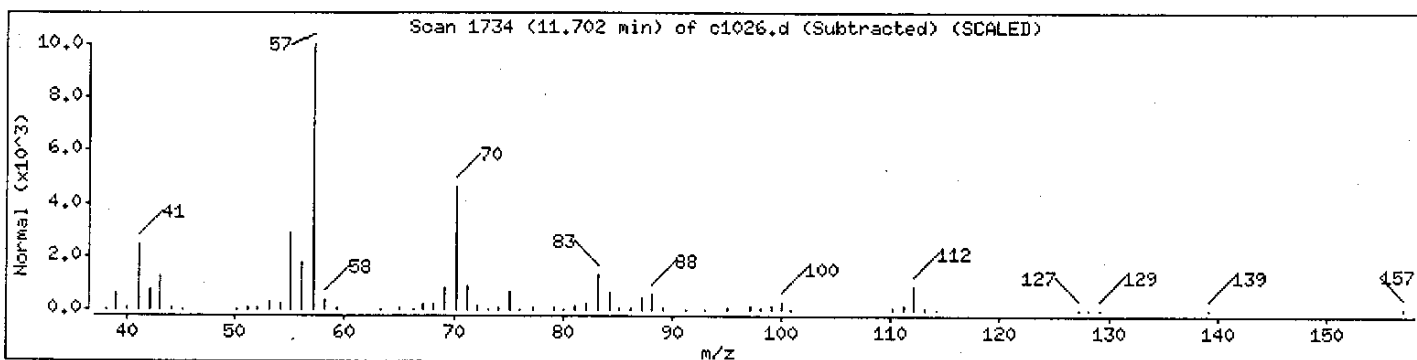
Weight

Unknown

0

0

0



# Semivolatile GC/MS

## Supporting Documentation

Sample Sequence, Chromatograms/Mass Spectra



# STL

Lot ID: D4E190Z6Z

Client: Cabiera Services

Method: 8270C

Associated Samples: 1,2,4

Batch #(s): 4142151

*I certify that, to the best of my knowledge, the attached package represents a complete and accurate copy of the original data.*

Signature/Date: B/p 6.4.04

**GC/MS SEMIVOLATILE  
ORGANIC EXTRACTION  
LOG SHEETS**



**STL**

RQC058

Seyvern Trent Laboratories, Inc.  
EXTRACTION BENCH WORKSHEET

Run Date: 5/26/04  
Time: 17:02:01

LEV	LEV		LEV	LEV	
1	2		1	2	
Y	Y	Blank	Y	Y	Weights/Volumes
Y	Y	Check	Y	Y	Spike & Surrogate Worksheet
-	-	MS/MSD	Y	Y	Vial contains correct volume
			Y	Y	Labels, greenbars, worksheets
			Y	Y	computer batch: correct & all match
			Y	Y	Anomalies to Extraction Method

- Expanded Deliverable  
- COC Completed  
- Bench Sheet Copied  
- Package Submitted to AnalyticalG  
- Bench Sheet Copied per COC

Extractionist: 006091 Jon Laviolette

Concentrationist: 002770 Erma J. Pottruff  
003658 Sara Havig

Reviewer/Date: HAVIGS / 5/26/04

\*\*\*\*\*  
\* QC BATCH: 4142151 \*  
\*\*\*\*\*

PREP DATE: 5/21/04 11:00  
COMP DATE: 5/26/04 16:50

Base/Neutrals and Acids (8270C)  
LIQ/LIQ, CONT (A/B/N) - Acid->Base

EXTR EXPR	ANL DUE	LOT#,MSRUN#/ WORK ORDER	TEST FLGS	EXT	MTH	MATRIX	INIT/FIN WT/VOL	PH'S INIT ADJ1 ADJ2	SOLVENTS EXTRACTION VOL EXCHANGE	VOL	SPIKE STANDARD/ SURROGATE ID
5/25/04 COMMENTS:	6/08/04	D4E190262-001 GGJX4-1-AC	-D	49	QL	WATER	953mL 1.00mL	7.0 2.0 12.0	MECL2	150.0	.0 BNA1530 1.0ML 5-12-04
5/25/04 COMMENTS:	6/08/04	D4E190262-002 GGJX6-1-AC	D	49	QL	WATER	906mL 1.00mL	7.0 2.0 12.0	MECL2	150.0	.0 BNA1530 1.0ML 5-12-04
5/25/04 COMMENTS:	6/08/04	D4E190262-004 GGJX9-1-AC	D	49	QL	WATER	976mL 1.00mL	7.0 2.0 12.0	MECL2	150.0	.0 BNA1530 1.0ML 5-12-04
5/25/04 COMMENTS:	6/02/04	D4E200180-001 GGMQ6-1-AC		49	QL	WATER	843mL 1.00mL	7.0 2.0 12.0	MECL2	150.0	.0 BNA1530 1.0ML 5-12-04
5/26/04 COMMENTS:	6/01/04	D4E200184-002 GGMRV-1-AC	R	49	QL	WATER	991mL 1.00mL	7.0 2.0 12.0	MECL2	150.0	.0 BNA1530 1.0ML 5-12-04
5/26/04 COMMENTS:	6/01/04	D4E200184-003 GGMRX-1-AN	R	49	QL	WATER	963mL 1.00mL	7.0 2.0 12.0	MECL2	150.0	.0 BNA1530 1.0ML 5-12-04
5/26/04 COMMENTS:	6/01/04	D4E200184-004 GGMR0-1-AN	R	49	QL	WATER	1001mL 1.00mL	7.0 2.0 12.0	MECL2	150.0	.0 BNA1530 1.0ML 5-12-04

RQC058

Severn Trent Laboratories, Inc.  
EXTRACTION BENCH WORKSHEETRun Date: 5/26/04  
Time: 17:02:00\*\*\*\*\*  
\*  
\* QC BATCH: 4142151 \*  
\*  
\*\*\*\*\*PREP DATE: 5/21/04 11:00  
COMP DATE: 5/26/04 16:50

EXTR EXPR	ANL DUE	LOT#,MSRUN#/ WORK ORDER	TEST FLGS	EXT	MTH	MATRIX	INIT/FIN WT/VOL	INIT	PH"S ADJ1	ADJ2	EXTRACTION	SOLVENTS VOL	EXCHANGE	VOL	SPIKE STANDARD/ SURROGATE ID
5/25/04 COMMENTS:	6/02/04	D4E200180-002 GGMR1-1-AC	/	49	QL	WATER	957mL 1.00mL	7.0	2.0	12.0	MECL2	150.0		.0	BNA1530 1.0ML 5-12-04
5/26/04 COMMENTS:	6/01/04	D4E200235-001 GGM9E-1-CD	R	49	QL	WATER	996mL 1.00mL	7.0	2.0	12.0	MECL2	150.0		.0	BNA1530 1.0ML 5-12-04
5/26/04 COMMENTS:	6/01/04	D4E200235-002 GGM9X-1-CD	R	49	QL	WATER	929mL 1.00mL	7.0	2.0	12.0	MECL2	150.0		.0	BNA1530 1.0ML 5-12-04
5/26/04 COMMENTS:	6/03/04	D4E200271-001 GGNL6-1-AC		49	QL	WATER	966mL 1.00mL	7.0	2.0	12.0	MECL2	150.0		.0	BNA1530 1.0ML 5-12-04
5/26/04 COMMENTS:	6/03/04	D4E200271-002 GGNMA-1-AC		49	QL	WATER	923mL 1.00mL	7.0	2.0	12.0	MECL2	150.0		.0	BNA1530 1.0ML 5-12-04
5/26/04 COMMENTS:	6/02/04	D4E200278-001 GGNPA-1-AH	R	49	QL	WATER	926mL 1.00mL	7.0	2.0	12.0	MECL2	150.0		.0	BNA1530 1.0ML 5-12-04
5/26/04 COMMENTS:	6/02/04	D4E200278-002 GGNQF-1-AU	R	49	QL	WATER	988mL 1.00mL	7.0	2.0	12.0	MECL2	150.0		.0	BNA1530 1.0ML 5-12-04
5/26/04 COMMENTS:	5/26/04	D4E200382-001 GGPJX-1-AA	R	49	QL	WATER	974mL 1.00mL	7.0	2.0	12.0	MECL2	150.0		.0	BNA1530 1.0ML 5-12-04
5/27/04 COMMENTS:	6/03/04	D4E200414-001 GGPX2-1-AC		49	QL	WATER	916mL 1.00mL	7.0	2.0	12.0	MECL2	150.0		.0	BNA1530 1.0ML 5-12-04
5/27/04 COMMENTS:	6/03/04	D4E200414-002 GGPX3-1-AC		49	QL	WATER	967mL 1.00mL	7.0	2.0	12.0	MECL2	150.0		.0	BNA1530 1.0ML 5-12-04

RQC058

Severn Trent Laboratories, Inc.  
EXTRACTION BENCH WORKSHEETRun Date: 5/26/04  
Time: 17:02:01\*\*\*\*\*  
\*  
\* QC BATCH: 4142151 \*  
\*  
\*\*\*\*\*PREP DATE: 5/21/04 11:00  
COMP DATE: 5/26/04 16:50

EXTR EXPR	ANL DUE	LOT#,MSRUN#/ WORK ORDER	TEST FLGS	EXT	MTH	MATRIX	INIT/FIN WT/VOL	PH'S INIT ADJI ADJ2	SOLVENTS EXTRACTION VOL EXCHANGE	VOL	SPIKE STANDARD/ SURROGATE ID
5/27/04 COMMENTS:	6/03/04	D4E200414-003 GGPX5-1-AC		49	QL	WATER	976mL 1.00mL	7.0 2.0 12.0	MECL2	150.0	.0 BNA1530 1.0ML 5-12-04
5/27/04 COMMENTS:	6/03/04	D4E200414-004 GGPX7-1-AC		49	QL	WATER	931mL 1.00mL	7.0 2.0 12.0	MECL2	150.0	.0 BNA1530 1.0ML 5-12-04
5/27/04 COMMENTS: BLACK, OILY	6/03/04	D4E200414-005 GGPX8-1-AC		49	QL	WATER	902mL 1.00mL	7.0 2.0 12.0	MECL2	150.0	.0 BNA1530 1.0ML 5-12-04
5/26/04 COMMENTS:	0/00/00	D4E210000-151 GGQDN-1-AAB		49	QL	WATER	1000mL 1.00mL	7.0 2.0 12.0	MECL2	150.0	.0 BNA1530 1.0ML 5-12-04
5/26/04 COMMENTS:	0/00/00	D4E210000-151 GGQDN-1-ACC		49	QL	WATER	1000mL 1.00mL	7.0 2.0 12.0	MECL2	150.0	.0 BNA1528 1.0ML 5-10-04 BNA1530 1.0ML 5-12-04
5/26/04 COMMENTS:	0/00/00	D4E210000-151 GGQDN-1-ADL	R	49	QL	WATER	1000mL 1.00mL	7.0 2.0 12.0	MECL2	150.0	.0 BNA1528 1.0ML 5-10-04 BNA1530 1.0ML 5-12-04

DEN-OP-0005 MECL2:Y52E39 H2O:ELGA ACID:236-37-N BASE:4041-31 S/S:JL W:KA  
BATH TEMP:85CR = RUSH C = CLP  
E = EPA 600 D = EXP.DEL)  
M = CLIENT REQ MS/MSD

NUMBER OF WORK ORDERS IN BATCH: 23

**GC/MS SEMIVOLATILE  
INSTRUMENT  
LOG SHEETS**



**STL**

STL Denver

## GC/MS Semi-Volatile Analysis

CORP-MS-0001 DEN or DEN-MS-0011 (8270C/625)

DEN-MS-0002 (8270C SIM)

Instrument

Target Batch

052724.6

IS: MSBNA

B77

Lot # / Sample	W.O.#	Amount	Dilution	Date	Initials	File Number	IS OK	SS OK	DIL OK	Comments	Batch #
Rinse BNA	NA	25mg (100%)	0.5x	5/17/04	LS	41707	NA	NA	NA		
	BNA-1512	25mg (100%)				08				Q fcl - fuel + pale	
						09				100% - fuel + pale	
						10				100% - 100% 24" column	
						11					
Rinse BNA	BNA-1512	25mg (100%)				12	✓			lit @ 13:31	
HPLC BNA	BNA-1509	25mg (100%)				13	✓			100% - not main	
						14	NA				
Rinse BNA	BNA-1512	25mg (100%)				15	✓			lit @ 15:57	
HPLC BNA	BNA-1529	25mg (100%)				16	✓			100% - Recal	
HPLC BNA	BNA-1406					17	✓				
CUSTO BNA	BNA-1518					18	✓				
REF BNA	BNA-1445					19	✓				
HPLC BNA	BNA-1509	5mg (100%)				20	✓			OK	
HPLC BNA		10				21	✓			OK	
HPLC BNA		20				22	✓			OK	
HPLC BNA		50				23	✓			OK	
HPLC BNA		50				24	✓			OK	
HPLC BNA		100				25	✓			OK	
HPLC BNA		160				26	✓			OK	
HPLC BNA		200				27	✓			OK	
HPLC BNA		1000				28	✓	✓	✓	OK	



## GC/MS Semi-Volatile Analysis

CORP-MS-0001 DEN or DEN-MS-0011 (82702/625)

DEN-MS-0002 (8270C SIM)

Target Batch 1513046*weight replaced septa, liner, gold ads,  
clipped 12 column 5/13/04*Instrument Y

IS: MSBNA

1377 8273 MS0

Lot # / Sample	W.O.#	Amount	Dilution	Date	Initials	File Number	IS OK	SS OK	DIL OK	Comments	Batch #
<i>Tinse</i>	<i>N/A</i>		<i>1513</i>	<i>5/13/04</i>	<i>DS</i>	<i>41386</i>	<i>NA</i>	<i>NA</i>	<i>NA</i>		
<i>REF8</i>	<i>BNA 1512</i>	<i>2500</i>				<i>87</i>	<i>✓</i>				
<i>CUST0080</i>	<i>BNA 1518</i>	<i>80</i>				<i>88</i>	<i>✓</i>			<i>WTC 10:56</i>	
<i>CUST010</i>		<i>10</i>				<i>89</i>	<i>✓</i>			<i>(up)</i>	
<i>CUST020</i>		<i>20</i>				<i>90</i>	<i>✓</i>				
<i>CUST050</i>		<i>50</i>				<i>91</i>	<i>✓</i>				
<i>CUST0120</i>		<i>120</i>				<i>92</i>	<i>✓</i>				
<i>CUST0160</i>		<i>160</i>				<i>93</i>	<i>✓</i>				
<i>CUST0200</i>	<i>✓</i>	<i>200</i>				<i>94</i>	<i>✓</i>				
<i>CUST0102</i>	<i>82V BNA 150</i>	<i>100</i>				<i>95</i>	<i>✓</i>			<i>✓</i>	
<i>AT9-0050</i>	<i>N/A BNA 1486</i>	<i>80</i>				<i>96</i>					
<i>AT9-0010</i>		<i>10</i>				<i>97</i>					
<i>AT9-0020</i>		<i>20</i>				<i>98</i>					
<i>AT9-0050</i>		<i>50</i>				<i>99</i>	<i>✓</i>				
<i>AT9-0120</i>		<i>120</i>				<i>41400</i>					
<i>AT9-0160</i>		<i>160</i>				<i>01</i>					
<i>AT9-0200</i>	<i>✓</i>	<i>200</i>				<i>02</i>					
<i>AT9-0100</i>	<i>82V BNA 1477</i>	<i>100</i>				<i>03</i>					
<i>REF-0050</i>	<i>N/A BNA 1445</i>	<i>80</i>				<i>04</i>					
<i>REF-010</i>		<i>10</i>				<i>05</i>					
<i>REF-0020</i>		<i>20</i>				<i>06</i>					
<i>REF-0050</i>	<i>✓</i>	<i>50</i>	<i>✓</i>	<i>✓</i>	<i>✓</i>	<i>07</i>		<i>✓</i>	<i>✓</i>		

STL Denver

## GC/MS Semi-Volatile Analysis

CORP-MS-0001 DEN or DEN-MS-0011 (8270C/625)

DEN-MS-0002 (8270C SIM)  
Maint: Changed septa, liner, o-ring, <sup>new</sup> 05-28-04Target Batch 052804, bInstrument Y

IS: MSBNA

1377 <sup>3373 MSO</sup>

Lot # / Sample	W.O.#	Amount	Dilution	Date	Initials	File Number	IS OK	SS OK	DIL OK	Comments	Batch #
Rinse	NA			05-28-04	MRX	Y1744	NA	NA	NA		
DFTPP	BNA1512	25mg OC	100%			45	↓	↓	↓	H.4206:22 ←	
HSL_0080	1509	80mg μL				46	✓	↓	↓	OK <sub>o</sub>	
AP9_0080	1406	↓				47	✓	↓	↓	OK <sub>o</sub>	
REF_0080	1445	↓				48	✓	↓	↓	OK <sub>o</sub>	
CUST 0050	Test 1518	50mg μL				49	NA	→	→	no tris	
CUST 0080	NA 1518	80mg μL				50	✓	NA	NA	(Cl)	
04E2100725	1600NA	100mg				51	✓	✓	✓	(Cl)	4142151
↓ 151CS	1AR					52	✓	✓	✓	(Cl)	
↓ 151CS	1AD					53	✓	✓	✓	(Cl)	
04E200382	1 6615X1AA	94mg				54	✓	✓	✓	(Cl)	
04E060404	2 66071AC	918mg			✓	55	✓	✓	✓	(Cl)	4128219
04E190262	1 66TX41AL	93 mg			✗	56	✓	✓	✓	Leven	4142151
	2 X61AL	906				57	✓	✓	✓	(Cl)	
	4 X91AL	921				58	✓	✓	✓	(Cl)	
04E200184	2 66071AC	911mg				59	✓	✓	✓	(Cl)	
	3 R11AN	403				60	✓	✓	✓	(Cl)	
	4 RD1AN	1001				61	✓	✓	✓	5X	
04E200180	1 66071AC	813 mg				62	✓	✓	✓	Leven	
	2 R11AC	957				63	✓	✓	✓	(Cl)	
04E200235	1 66071AC	916mg				64	✓	✓	✓	(Cl)	
	2 9X1CS	909				65	✓	✓	✓	(Cl)	

## STT. Denver

- 5973 MS

Y  
1377

5/28/41  
18

STL Denver

## GC/MS Semi-Volatile Analysis

CORP-MS-0001 DEN or DEN-MS-001 (8270C/625)

DEN-MS-0002 (8270C SIM)  
Maint: Changed septa, liner, Trimmed 6" column.Target Batch 052904.6

Instrument

IS: MSBNA

5973 MSD

Lot # / Sample	W.O.#	Amount	Dilution	Date	Initials	File Number	IS OK	SS OK	DIL OK	Comments	Batch #
QFTSP	MA	BNA 1512	25% 100%	5/29/04	G.	41771	NA	NA	NA	lit @ 9:50	
1189 6:30		BNA 1509	50% 100%			72	/	/	/	(OK)	
1189 6:30		BNA 1406				73	/	/	/		
CLUSTE 80	✓	BNA 1578	✓			74	/	✓	/	/	
04E14002-4A	26	66CH1141	100% 100%			75	/	ND	/	(OK)	4135444
04E110133	3	F109 1141				76	/	/	/	(OK)	
	4					77	/	/	/	(OK)	
	5					78	/	/	/	(OK)	
	6					79	/	/	/	(OK)	
	7					80	/	/	/	(OK)	
	9	660V1141	✓			81	/	/	/	(OK)	
04E14002-082	26	668X1141	100%			82	/	/	/	(OK)	4140403
04E19001-403	108	66K1141				83	/	/	/	(OK)	
04E12025	1	6631141				84	/	/	/	(OK)	
04E110321	1	6618141				85	/	/	/	(OK)	
	113	107				86	/	/	/	(OK)	
	1180	108	✓			87	/	/	/	(OK)	
04E190262	2	661A141	50% 100%			88	✓	14	✓	confirms	4140451
04E120184	4	661M141	100% 5X			89	✓	14	✓	OK	
04E120150	1	661K141	80% 100%			90	✓	14	✓	confirms	
04E120271	1	661L141	50% 4X			91	✓	14	✓	OK	
	2	661N141	50% 100%			92	✓	14	✓	confirms	

STL Denver

## GC/MS Semi-Volatile Analysis

CORP-MS-0001 DEN or DEN-MS-0011 (8270C/625)

DEN-MS-0002 (8270C SIM)

Instrument YTarget Batch 052904.6

IS: MSBNA

1377 73 MSD

Lot # / Sample	W.O.#	Amount	Dilution	Date	Initials	File Number	IS OK	SS OK	DIL OK	Comments	Batch #
<u>04E20078</u>	<u>1</u>	<u>667NA111A 90ul</u>	<u>100%</u>	<u>5/19/01</u>	<u>Q</u>	<u>41793</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>OK</u>	<u>4142151</u>
<u>14E20044</u>	<u>2</u>	<u>667NA111A 98ul</u>				<u>94</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>OK</u>	
	<u>1</u>	<u>667NA111A 96ul</u>				<u>95</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>OK</u>	
	<u>4</u>	<u>X711A 91ul</u>				<u>96</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>OK</u>	
	<u>2</u>	<u>X311A 96ul</u>				<u>97</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>OK</u>	
	<u>3</u>	<u>X511A 97ul</u>				<u>98</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>OK</u>	
	<u>5</u>	<u>X811A 90ul</u>				<u>99</u>	<u>NA</u>			<u>21135 ←</u> <u>out of clock</u> <u>22102</u>	

mer  
05-31-01

STL Denver

**GC/MS SEMIVOLATILE  
STANDARD DATA**



**STL**

## GC/MS Initial Calibration Review Checklist

STL Denver

Instrument ID and Date:

Y052704.6

Check Method Used: Analysis

☒ 625☒ 8270☒ Other SV

HSL/AFCEE 3.1 (4)

☐ 524.2☐ 624☐ 8260B☐ Other VOA

VOA Preparation

☐ 5mL☐ 20mL☐ 5035 Low☐ 5035 High☐ 5030 Low☐ 5030 High

Review Items	----- Level 1 -----			Level 2	Comments
	Yes	No	N/A		
<b>Initial Calibration</b>					
1. BFB/DFTPP meets criteria?	✓			✓	
2. ICAL date and instrument ID verified?	✓				
3. Sufficient number of calibration points used?	✓				
4. Reasons for removal of points documented?	✓				
5. %RSD or correlation coefficient within method limits?	✓				
6. If RRF used for ICAL, were all compounds within 15% RSD?	✓				List all exceptions below (cpd & RSD)
7. Response factors meet criteria?	✓				
8. Isomeric pairs checked for correct peak assignment?	✓				
9. Data checked for detector saturation?	✓				
10. Standards traceability properly documented?	✓				
11. Manual integrations documented and checked?	✓				
12. 2 <sup>nd</sup> source ICV recovery 75-125% for DoD projects, 65-135% (±55% of expected for poor performers) for non-DoD?	✓			✓	Atrazine 395%

1st Level Reviewer:

DRK

Date:

05-28-04

2nd Level Reviewer:

[Signature]

Date:

5/28/04

715% RSD

Atrazine 68.9%

Data File: /chem/Y.i/052704.b/y1715.d

Page 2

Date : 27-MAY-2004 15:57

Client ID: DFTPP

Instrument: Y.i

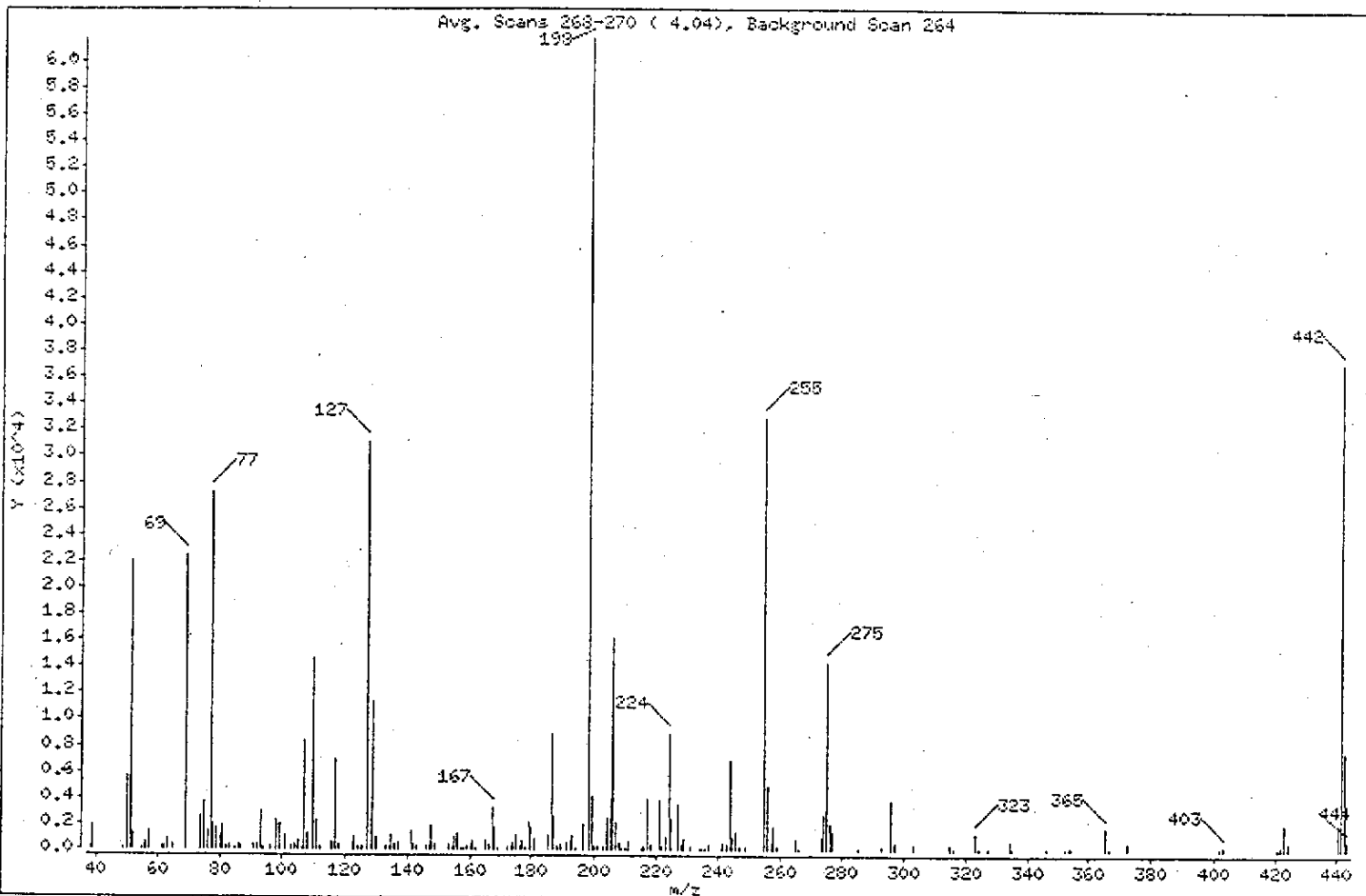
Sample Info: 25NG00 DFTPP,BNA1512,P041904 E041905

Operator: todear

Column phase: Rtx-Sms

Column diameter: 0.25

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
199	Base Peak, 100% relative abundance	100.00
51	30.00 - 60.00% of mass 199	35.59
68	Less than 2.00% of mass 69	0.00 ( 0.00)
69	Mass 69 relative abundance	36.31
70	Less than 2.00% of mass 69	0.00 ( 0.00)
127	40.00 - 60.00% of mass 199	50.28
197	Less than 1.00% of mass 199	0.00
199	5.00 - 9.00% of mass 199	6.65
275	10.00 - 30.00% of mass 199	23.27
365	Greater than 1.00% of mass 199	2.64
441	Present, but less than mass 443	3.26
442	40.00 - 100.00% of mass 199	59.90
443	17.00 - 23.00% of mass 442	12.22 ( 20.40)

5/27/04  
LW



Date : 27-MAY-2004 15:57

Client ID: DFTPP

Instrument: Y.i

Sample Info: 25NGOC DFTPP,BNA1512,P041904.E041905

Operator: todear

Column phase: Rtx-5ms

Column diameter: 0.25

Data File: y1715.d

Spectrum: Avg. Scans 268-270 ( 4.04), Background Scan 264

Location of Maximum: 198.00

Number of points: 181

m/z	Y	m/z	Y	m/z	Y	m/z	Y
-----							
38.00	308	118.00	439	185.00	1152	247.00	278
39.00	1819	122.00	548	186.00	8994	249.00	270
49.00	111	123.00	931	187.00	2524	255.00	32856
50.00	5613	124.00	327	188.00	315	256.00	4913
51.00	21952	125.00	310	189.00	462	257.00	525
-----							
52.00	1230	127.00	31008	191.00	550	258.00	1908
55.00	107	128.00	2401	192.00	775	259.00	262
56.00	591	129.00	11339	193.00	1095	265.00	839
57.00	1484	130.00	1028	194.00	109	266.00	124
61.00	258	133.00	247	196.00	1923	273.00	1047
-----							
62.00	329	134.00	266	198.00	61672	274.00	2731
63.00	784	135.00	1068	199.00	4099	275.00	14349
65.00	432	136.00	363	200.00	284	276.00	1958
69.00	22392	137.00	613	201.00	322	277.00	1353
74.00	2500	141.00	1488	203.00	351	285.00	115
-----							
75.00	3711	142.00	480	204.00	2343	293.00	332
76.00	1363	143.00	278	205.00	3954	296.00	3800
77.00	27176	146.00	250	206.00	16166	297.00	566
78.00	1992	147.00	582	207.00	2176	303.00	494
79.00	1769	148.00	1865	208.00	508	315.00	394
-----							
80.00	1171	149.00	366	209.00	113	316.00	100
81.00	1851	153.00	371	210.00	105	323.00	1282
82.00	341	154.00	257	211.00	700	324.00	134
83.00	427	155.00	923	215.00	113	327.00	129
85.00	125	156.00	1262	216.00	305	334.00	695
-----							
86.00	405	157.00	117	217.00	3939	335.00	109
87.00	233	158.00	210	218.00	496	346.00	116
91.00	377	159.00	277	221.00	3816	352.00	162
92.00	431	160.00	397	222.00	232	353.00	187
93.00	3033	161.00	729	223.00	1033	354.00	282
-----							
94.00	107	162.00	117	224.00	8968	365.00	1631
96.00	274	165.00	696	225.00	2462	366.00	104
98.00	2339	166.00	392	227.00	3609	372.00	564
99.00	2046	167.00	3206	228.00	482	402.00	164
101.00	1085	168.00	1668	229.00	864	403.00	309

Data File: /chem/Y.i/052704.b/y1715.d

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Date : 27-MAY-2004 15:57

Client ID: DFTPP

Instrument: Y.i

Sample Info: 28NG00 DFTPP,3NA1512,P041904 E041905

Operator: todean

Column phase: Rtx-5ms

Column diameter: 0.25

Data File: y1715.d

Spectrum: Avg. Scans 263-270 ( 4.04), Background Scan 264

Location of Maximum: 198.00

Number of points: 181

m/z	Y	m/z	Y	m/z	Y	m/z	Y
103.00	333	169.00	136	231.00	260	421.00	146
104.00	493	172.00	248	234.00	103	422.00	216
105.00	671	173.00	336	235.00	137	423.00	1955
106.00	108	174.00	557	236.00	100	424.00	550
107.00	8398	175.00	1148	237.00	444	441.00	2008
108.00	1340	176.00	325	241.00	109	442.00	36336
110.00	14603	177.00	689	242.00	562	443.00	7537
111.00	2339	178.00	128	243.00	391	444.00	646
112.00	234	179.00	2158	244.00	6888		
116.00	520	180.00	1755	245.00	935		
117.00	6882	181.00	866	246.00	1355		

Data File: /chem/Y.i/052704.b/y1715.d

Page 1

Date : 27-MAY-2004 15:57

Client ID: DFTPP

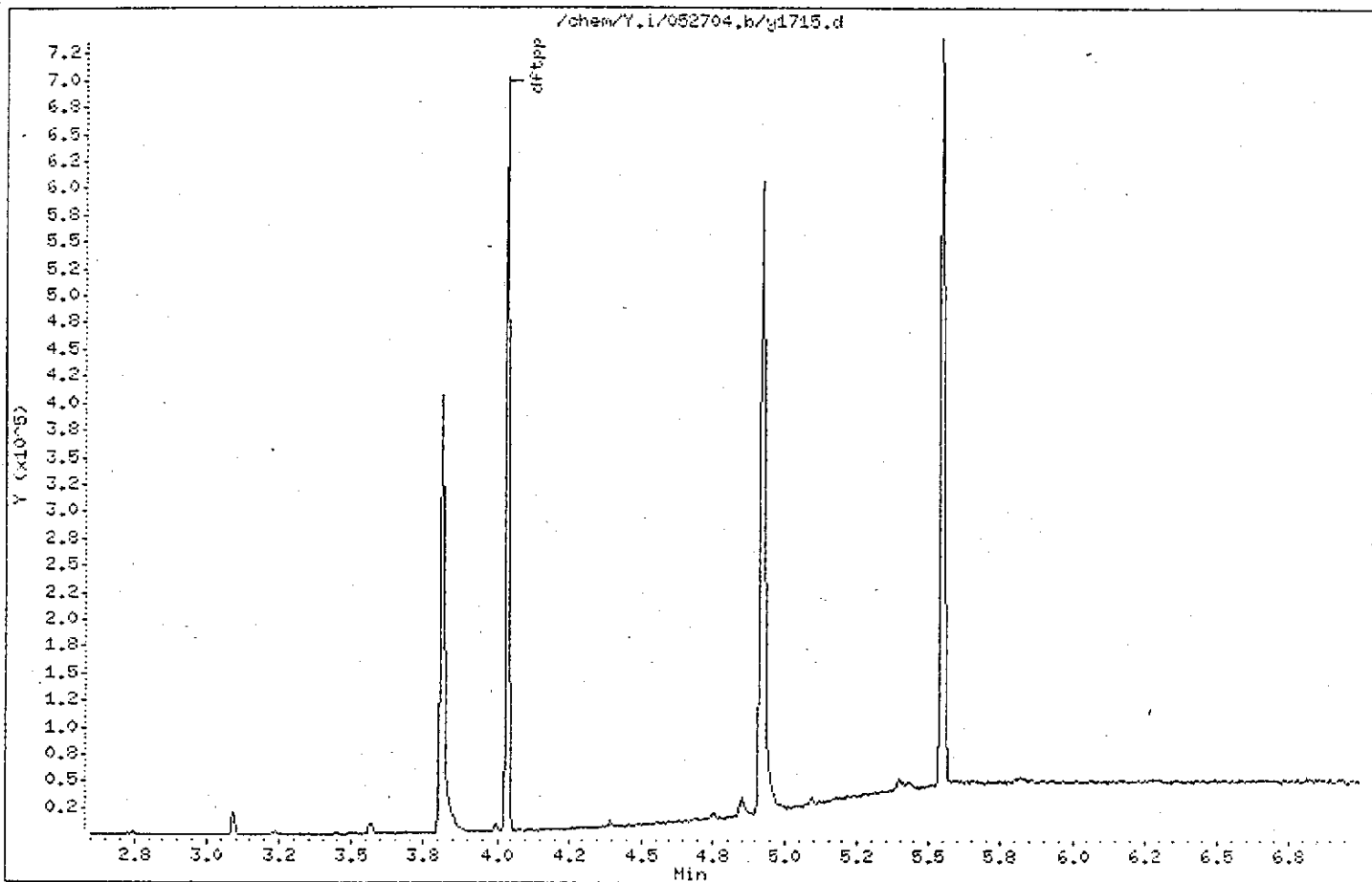
Instrument: Y.i

Sample Info: 25N000 DFTPP,BNA1512,P041904 E041905

Operator: todcar

Column phase: Rtx-5ms

Column diameter: 0.25

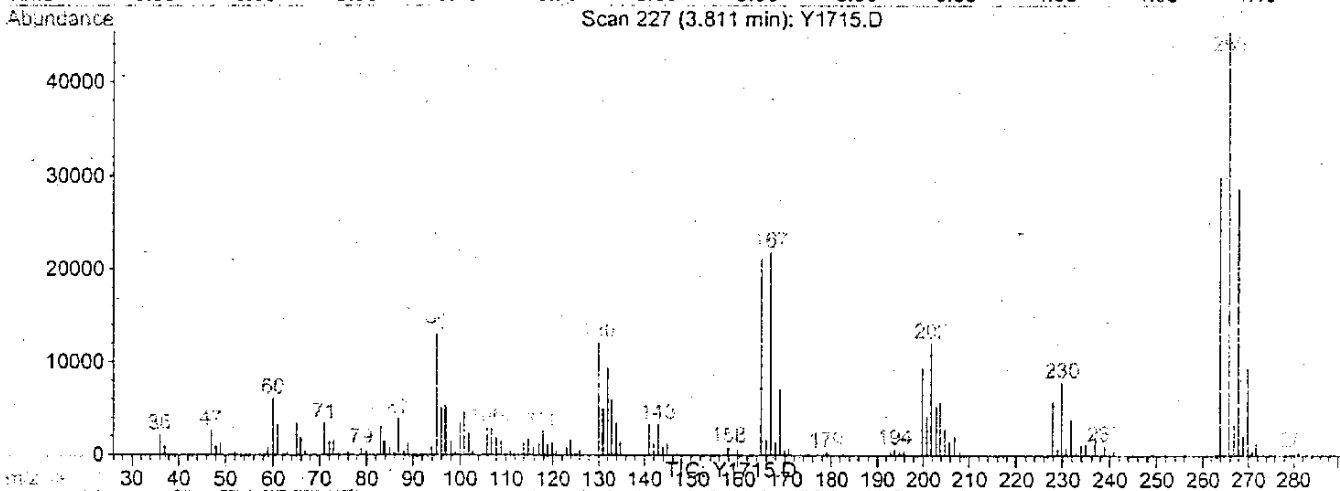
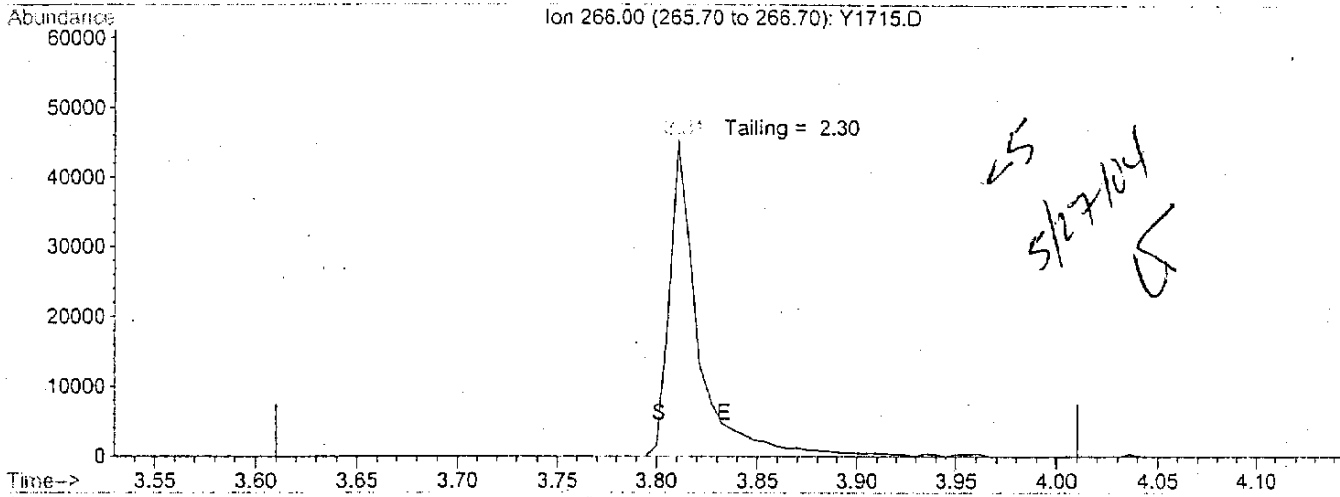


# Quantitation Report

Data File : C:\HPCHEM\1\DATA\052704.B\Y1715.D  
 Acq On : 27 May 2004 3:57 pm  
 Sample : 25NGOC DFTPP, BNA1512, P041904 E041905  
 Misc :  
 Quant Time: May 27 17:45 19104

Vial: 8  
 Operator: todear  
 Inst : GC/MS Ins  
 Multiplr: 1.00  
 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\DFTPPB.M (RTE Integrator)  
 Title :  
 Last Update : Thu May 27 17:23:30 2004  
 Response via : Single Level Calibration



(1) Pentachlorophenol

3.81min 0.00ug/ml

response 45613

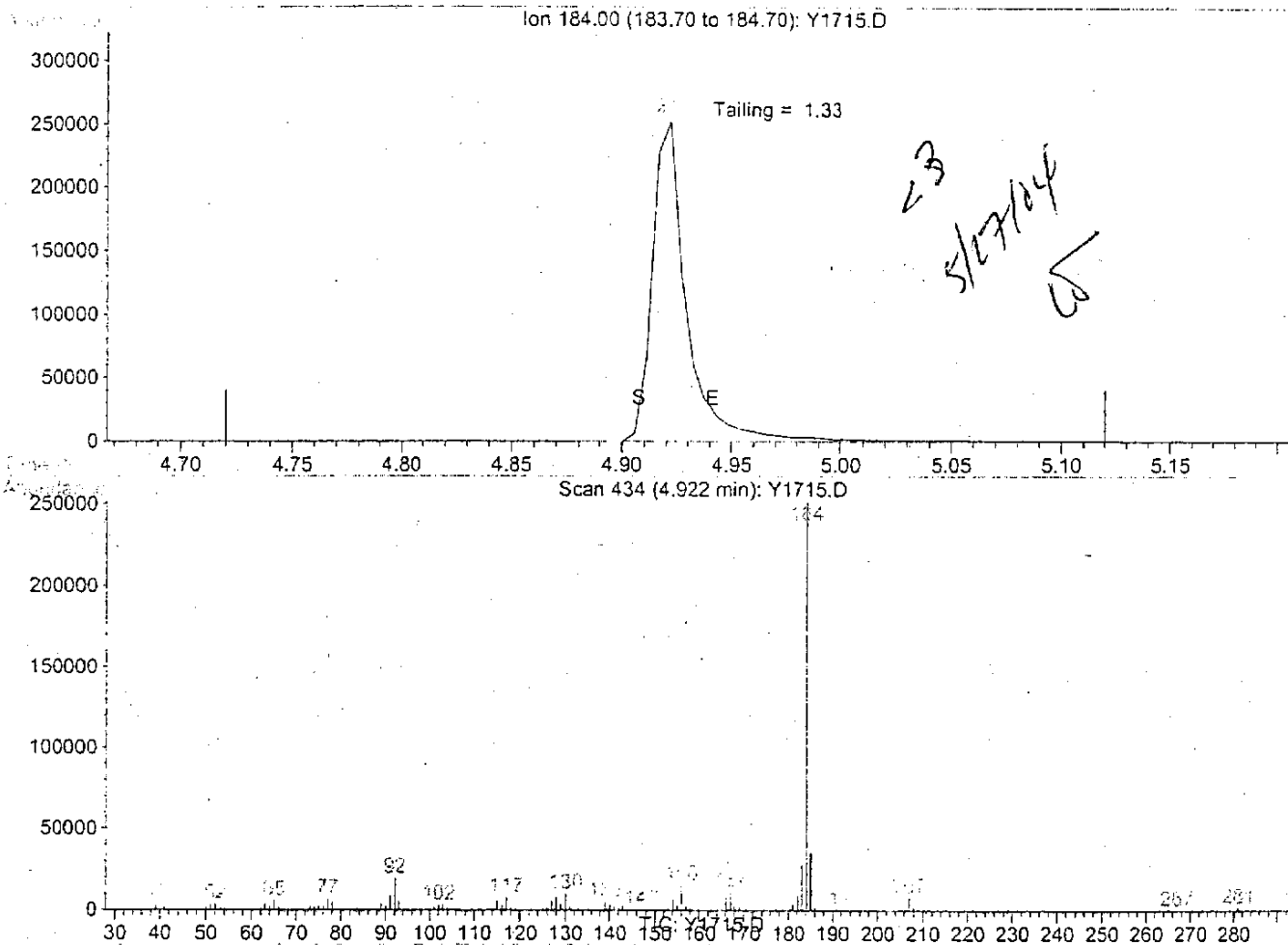
Ion	Exp%	Act%
266.00	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

# Quantitation Report

Data File : C:\HPCHEM\1\DATA\052704.B\Y1715.D  
 Acq On : 27 May 2004 3:57 pm  
 Sample : 25NGOC DFTPP, BNA1512, P041904 E041905  
 Misc :  
 Quant Time: May 27 17:45 19104

Vial: 8  
 Operator: todear  
 Inst : GC/MS Ins  
 Multiplr: 1.00  
 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\DFTPPB.M (RTE Integrator)  
 Title :  
 Last Update : Thu May 27 17:23:30 2004  
 Response via : Single Level Calibration



(3) Benzidine

4.92min 0.00ug/ml

response 277122

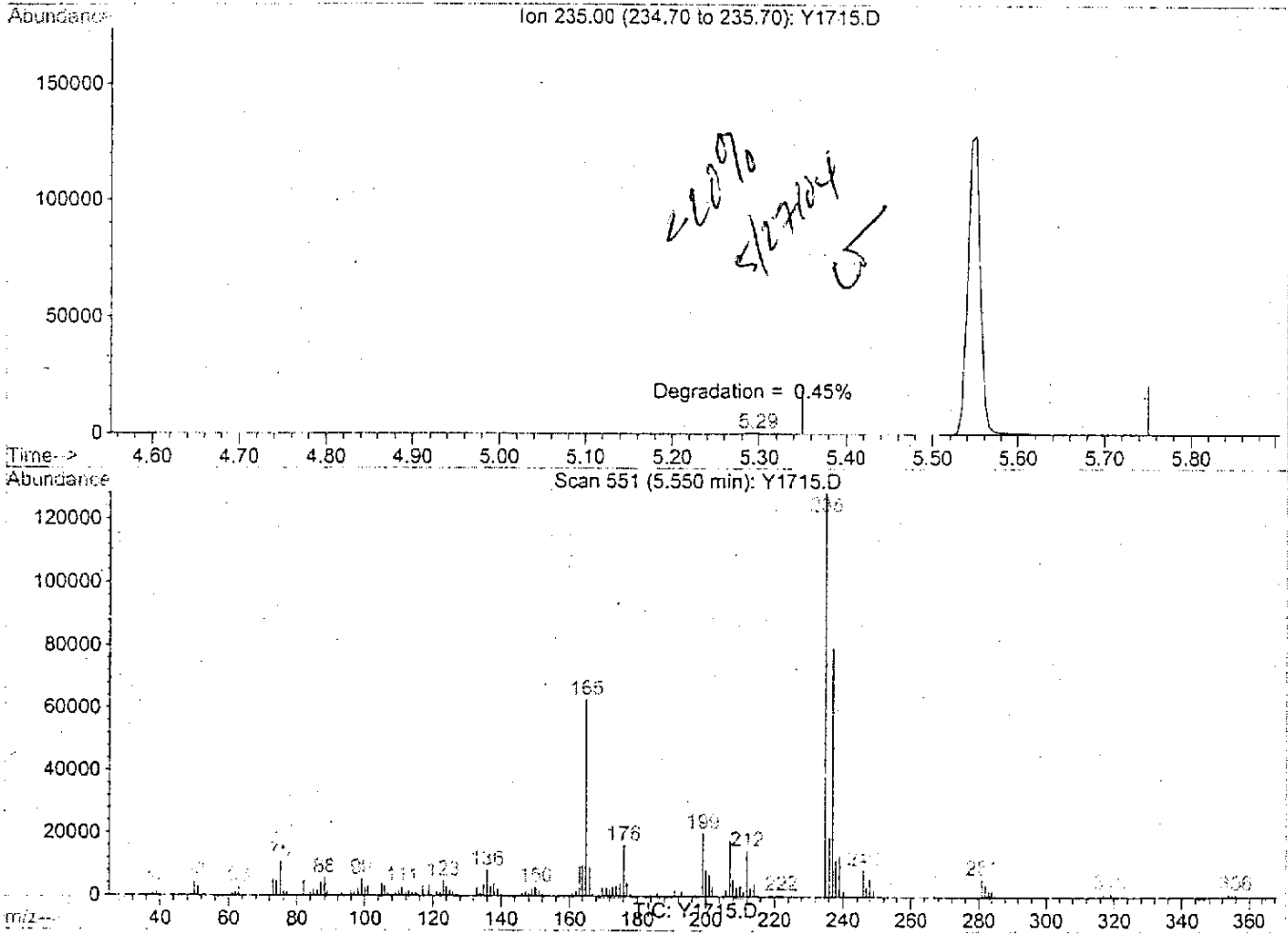
Ion	Exp%	Act%
184.00	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

# Quantitation Report

Data File : C:\HPCHEM\1\DATA\052704.B\Y1715.D  
 Acq On : 27 May 2004 3:57 pm  
 Sample : 25NGOC DFTPP, BNA1512, P041904 E041905  
 Misc :  
 Quant Time: May 27 17:45 19104

Vial: 8  
 Operator: todear  
 Inst : GC/MS Ins  
 Multiplr: 1.00  
 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\DFTPPB.M (RTE Integrator)  
 Title :  
 Last Update : Thu May 27 17:23:30 2004  
 Response via : Single Level Calibration



(4) DDT (std)

5.55min 0.00ug/ml

response 129768

Ion	Exp%	Act%
235.00	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Calibration History

Method : /chem/Y.i/052704.b/8270C.m  
Start Cal Date: 06-MAY-2004 10:56  
End Cal Date : 27-MAY-2004 21:14

Initial Calibration

Injection Date	Sublist	Calibration File
Cal Level: 1 , Cal Amount: 5.00000		
27-MAY-2004 18:05	1-HSL	/chem/Y.i/052704.b/y1720.d ✓
Cal Level: 2 , Cal Amount: 10.00000		
13-MAY-2004 18:48	3-REF	/chem/Y.i/051304.b/y1405.d
13-MAY-2004 15:15	2-AP9std	/chem/Y.i/051304.b/y1397.d
13-MAY-2004 11:44	4-CUST	/chem/Y.i/051304.b/y1389.d ✓
27-MAY-2004 18:32	1-HSL	/chem/Y.i/052704.b/y1721.d
Cal Level: 3 , Cal Amount: 20.00000		
13-MAY-2004 19:15	3-REF	/chem/Y.i/051304.b/y1406.d
13-MAY-2004 15:41	2-AP9std	/chem/Y.i/051304.b/y1398.d
13-MAY-2004 12:10	4-CUST	/chem/Y.i/051304.b/y1390.d ✓
27-MAY-2004 18:59	1-HSL	/chem/Y.i/052704.b/y1722.d
Cal Level: 4 , Cal Amount: 50.00000		
13-MAY-2004 19:41	3-REF	/chem/Y.i/051304.b/y1407.d
13-MAY-2004 16:08	2-AP9std	/chem/Y.i/051304.b/y1399.d
13-MAY-2004 12:36	4-CUST	/chem/Y.i/051304.b/y1391.d ✓
27-MAY-2004 19:26	1-HSL	/chem/Y.i/052704.b/y1723.d
Cal Level: 5 , Cal Amount: 80.00000		
13-MAY-2004 18:21	3-REF	/chem/Y.i/051304.b/y1404.d
13-MAY-2004 14:48	2-AP9std	/chem/Y.i/051304.b/y1396.d
13-MAY-2004 11:18	4-CUST	/chem/Y.i/051304.b/y1388.d ✓
27-MAY-2004 19:53	1-HSL	/chem/Y.i/052704.b/y1724.d
Cal Level: 6 , Cal Amount: 120.00000		
13-MAY-2004 20:08	3-REF	/chem/Y.i/051304.b/y1408.d
13-MAY-2004 16:35	2-AP9std	/chem/Y.i/051304.b/y1400.d
13-MAY-2004 13:03	4-CUST	/chem/Y.i/051304.b/y1392.d ✓
27-MAY-2004 20:20	1-HSL	/chem/Y.i/052704.b/y1725.d
Cal Level: 7 , Cal Amount: 160.00000		

13-MAY-2004 20:35	3-REF	/chem/Y.i/051304.b/y1409.d
13-MAY-2004 17:01	2-AP9std	/chem/Y.i/051304.b/y1401.d
13-MAY-2004 13:29	4-CUST	/chem/Y.i/051304.b/y1393.d
27-MAY-2004 20:47	1-HSL	/chem/Y.i/052704.b/y1726.d ✓

Cal Level: 8 , Cal Amount: 200.00000

26-MAY-2004 17:20	10-HEX	/chem/Y.i/0526042.b/y1684.d
13-MAY-2004 21:01	3-REF	/chem/Y.i/051304.b/y1410.d
13-MAY-2004 17:28	2-AP9std	/chem/Y.i/051304.b/y1402.d
13-MAY-2004 13:55	4-CUST	/chem/Y.i/051304.b/y1394.d
27-MAY-2004 21:14	1-HSL	/chem/Y.i/052704.b/y1727.d ✓

# Continuing Calibration

Ccal Level Mode: GLOBAL LEVEL 5

Ccal Level: 5 , Ccal Amount: 80.0000

<del>27-MAY-2004 19:53</del>	<del>1-HSL</del>	<del>/chem/Y.i/052704.b/y1724.d</del>
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Ccal Level: 5 , Ccal Amount: 80.0000

27-MAY-2004 17:10	4-CUST	/chem/Y.i/052704.b/y1718.d
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Ccal Level: 5 , Ccal Amount: 80.0000

27-MAY-2004 17:38	3-REF	/chem/Y.i/052704.b/y1719.d
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Ccal Level: 5 , Ccal Amount: 80.0000

27-MAY-2004 16:43	2-AP9std	/chem/Y.i/052704.b/y1717.d
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Ccal Level: 5 , Ccal Amount: 80.0000

<del>27-MAY-2004 16:13</del>	<del>1-HSL</del>	<del>/chem/Y.i/052704.b/y1716.d</del>
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Ccal Level: 5 , Ccal Amount: 80.0000

<del>27-MAY-2004 13:49</del>	<del>1-HSL</del>	<del>/chem/Y.i/052704.b/y1713.d</del>
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Report Date : 28-May-2004 02:57

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## STL-Denver

## INITIAL CALIBRATION DATA

Start Cal Date : 06-MAY-2004 10:56  
 End Cal Date : 27-MAY-2004 21:14  
 Quant Method : ISTD  
 Target Version : 3.50  
 Integrator : HP RTE  
 Method file : /chem/Y.i/052704.b/8270C.m  
 Cal Date : 28-May-2004 02:57 kiddd

## Calibration File Names:

Level 1: /chem/Y.i/052704.b/y1720.d  
 Level 2: /chem/Y.i/051304.b/y1405.d  
 Level 3: /chem/Y.i/051304.b/y1406.d  
 Level 4: /chem/Y.i/051304.b/y1407.d  
 Level 5: /chem/Y.i/051304.b/y1404.d  
 Level 6: /chem/Y.i/051304.b/y1408.d  
 Level 7: /chem/Y.i/051304.b/y1409.d  
 Level 8: /chem/Y.i/0526042.b/y1684.d

Compound	5	10	20	50	80	120	Curve	Coefficients			%RSD or R <sup>2</sup>
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6		b	m1	m2	
	160	200									
	Level 7	Level 8									
-----											
5 Pyridine	+++++	1.01016	1.21429	1.17178	1.16319	1.13654					
	1.11758	1.10825					AVRG		1.13168		5.69986
-----											
4 N-Nitrosodimethylamine	+++++	0.67333	0.73163	0.69667	0.72856	0.73523					
	0.74321	0.74592					AVRG		0.72208		3.72582
16 Aniline	+++++	64353	143362	298471	466176	557035					
	732676	805283					QUAD	0.04398	0.42332	0.09407	0.99948 ✓
15 Phenol	+++++	1.59035	1.64938	1.56834	1.59258	1.56184					
	1.50048	1.49687					AVRG		1.56569		3.43418
18 Bis(2-chloroethyl) ether	+++++	1.27470	1.29747	1.22291	1.22538	1.24604					
	1.18032	1.16517					AVRG		1.23028		3.86258

Report Date : 28-May-2004 02:57

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STL-Denver

## INITIAL CALIBRATION DATA

Start Cal Date : 06-MAY-2004 10:56  
 End Cal Date : 27-MAY-2004 21:14  
 Quant Method : ISTD  
 Target Version : 3.50  
 Integrator : HP RTE  
 Method file : /chem/Y.i/052704.b/8270C.m  
 Cal Date : 28-May-2004 02:57 kiddd

Compound	5	10	20	50	80	120	Curve	Coefficients			%RSD or R <sup>2</sup>
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6		b	m1	m2	
	160 Level 7	200 Level 8									
20 2-Chlorophenol	++++ 1.23672	1.38398 1.21844	1.42040	1.33656	1.31551	1.30809	AVRG		1.31710		5.52757
21 1,3-Dichlorobenzene	++++ 1.32428	1.57186 1.30416	1.56784	1.45515	1.43067	1.39985	AVRG		1.43626		7.37972
23 1,4-Dichlorobenzene	++++ 1.34723	1.59686 1.32085	1.62416	1.49110	1.45752	1.43901	AVRG		1.46811		7.80173
24 Benzyl alcohol	++++ 0.81749	0.77908 0.80471	0.85020	0.82442	0.83177	0.83353	AVRG		0.82017		2.80156
25 1,2-Dichlorobenzene	++++ 1.24415	1.51257 1.21153	1.50518	1.39894	1.35211	1.33900	AVRG		1.36621		8.53429
26 2-Methylphenol	++++ 1.07187	1.18368 1.05052	1.24092	1.16638	1.12234	1.12586	AVRG		1.13737		5.77661
27 1H-Indene	++++ 2.04260	2.37313 1.97011	2.41011	2.24022	2.19570	2.15364	AVRG		2.19793		7.32449
28 2,2'-oxybis(1-chloropropane)	++++ 1.41661	1.58839 1.37948	1.61094	1.51611	1.50282	1.48229	AVRG		1.49952		5.59143
29 4-Methylphenol	++++ 1.08174	1.16683 1.05428	1.28429	1.20987	1.16816	1.13294	AVRG		1.15687		6.69696

Report Date : 28-May-2004 02:57

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## STL-Denver

## INITIAL CALIBRATION DATA

Start Cal Date : 06-MAY-2004 10:56  
 End Cal Date : 27-MAY-2004 21:14  
 Quant Method : ISTD  
 Target Version : 3.50  
 Integrator : HP RTE  
 Method file : /chem/Y.i/052704.b/8270C.m  
 Cal Date : 28-May-2004 02:57 kidd

Compound	5	10	20	50	80	120	Curve	Coefficients			%RSD or R^2
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6		b	m1	m2	
	160 Level 7	200 Level 8									
30 N-nitrosodi-n-propylamine	++++ 0.82303	0.80365 0.80771	0.90282	0.88006	0.87664	0.87472	AVRG		0.85266		4.69831
32 Acetophenone	++++ 1.57899	1.66792 1.53172	1.80380	1.66413	1.65050	1.67226	AVRG		1.65276		5.16080
33 Hexachloroethane	0.54622 0.51021	0.57062 0.50200	0.58087	0.55283	0.54931	0.53902	AVRG		0.54388		4.96764
37 Nitrobenzene	++++ 1.25325	1.32979 1.23723	1.42173	1.31324	1.30493	1.28997	AVRG		1.30716		4.60834
40 Isophorone	++++ 0.56787	0.54649 0.55982	0.59498	0.59229	0.58132	0.56959	AVRG		0.57319		3.05400
41 2-Nitrophenol	++++ 0.17582	0.16004 0.17212	0.18606	0.18543	0.18211	0.17789	AVRG		0.17707		5.11856
42 2,4-Dimethylphenol	++++ 0.28712	0.32736 0.28514	0.32901	0.31673	0.29688	0.29454	AVRG		0.30526		6.13284
43 Bis(2-chloroethoxy)methane	++++ 0.33782	0.35392 0.33295	0.37849	0.35547	0.34515	0.34358	AVRG		0.34962		4.30532
45 Benzoic acid	++++ 0.20847	++++ 0.21485	++++	0.20557	0.21749	0.22575	AVRG		0.21442		3.69946

Report Date : 28-May-2004 02:57

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## STL-Denver

## INITIAL CALIBRATION DATA

Start Cal Date : 06-MAY-2004 10:56  
 End Cal Date : 27-MAY-2004 21:14  
 Quant Method : ISTD  
 Target Version : 3.50  
 Integrator : HP RTE  
 Method file : /chem/Y.i/052704.b/8270C.m  
 Cal Date : 28-May-2004 02:57 kiddd

Compound	5	10	20	50	80	120	Curve	Coefficients			RSD or R <sup>2</sup>
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6		b	m1	m2	
	160 Level 7	200 Level 8									
46 2,4-Dichlorophenol	++++ 0.25233	0.26354 0.24890	0.29379	0.27968	0.26888	0.26223					
							AVRG		0.26705		5.84088
47 1,2,4-Trichlorobenzene	++++ 0.27776	0.32400 0.26755	0.33628	0.31198	0.29944	0.28702					
							AVRG		0.30058		8.31732
50 Naphthalene	++++ 0.86910	1.03497 0.84358	1.04602	0.98648	0.93670	0.91079					
							AVRG		0.94680		8.32564
51 4-Chloroaniline	++++ 0.37893	0.41238 0.36324	0.43109	0.41851	0.39861	0.39045					
							AVRG		0.39903		5.91694
52 Hexachlorobutadiene	++++ 0.15386	0.18402 0.14297	0.19047	0.17636	0.16814	0.15998					
							AVRG		0.16797		10.08716
59 4-Chloro-3-methylphenol	++++ 0.26636	0.26764 0.26513	0.29546	0.28455	0.27534	0.27015					
							AVRG		0.27495		4.09277
62 2-Methylnaphthalene	++++ 0.56349	0.70145 0.54555	0.71405	0.65802	0.62203	0.59171					
							AVRG		0.62804		10.48390
64 1-Methylnaphthalene	++++ 0.56637	0.70295 0.54337	0.72356	0.66162	0.62630	0.59481					
							AVRG		0.63128		10.79594
63 Hexachlorocyclopentadiene	++++ 0.32540	0.26562 0.31173	0.31576	0.33691	0.33125	0.32439					
							AVRG		0.31587		7.51985

Report Date : 28-May-2004 02:57

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## STL-Denver

## INITIAL CALIBRATION DATA

Start Cal Date : 06-MAY-2004 10:56  
 End Cal Date : 27-MAY-2004 21:14  
 Quant Method : ISTD  
 Target Version : 3.50  
 Integrator : HP RTE  
 Method file : /chem/Y.i/052704.b/8270C.m  
 Cal Date : 28-May-2004 02:57 kiddd

Compound	5	10	20	50	80	120	Curve	Coefficients			%RSD or R <sup>2</sup>
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6		b	m1	m2	
	160 Level 7	200 Level 8									
67 2,4,6-Trichlorophenol	++++ 0.28521	0.30901 0.27294	0.32963	0.32002	0.30932	0.29952	AVRG		0.30366		6.45333
68 2,4,5-Trichlorophenol	++++ 0.34212	0.35862 0.32875	0.36698	0.36127	0.35123	0.34906	AVRG		0.35115		3.67008
71 2-Chloronaphthalene	++++ 0.89454	1.10672 0.85169	1.12789	1.04331	0.98048	0.94017	AVRG		0.99211		10.59269
74 2-Nitroaniline	++++ 0.28935	0.24795 0.28707	0.29568	0.29885	0.29328	0.29208	AVRG		0.28632		6.06342
76 Dimethyl phthalate	++++ 1.06053	1.23796 1.03160	1.29040	1.20283	1.13082	1.09758	AVRG		1.15025		8.35223
79 2,6-Dinitrotoluene	++++ 0.24599	0.22726 0.24327	0.26220	0.26088	0.25118	0.25146	AVRG		0.24889		4.75652
81 Acenaphthylene	++++ 1.45248	1.75015 1.36515	1.80998	1.69966	1.57947	1.52898	AVRG		1.59798		10.18460
82 3-Nitroaniline	++++ 0.28937	0.24759 0.29215	0.29397	0.28775	0.28868	0.29073	AVRG		0.28432		5.74447
84 Acenaphthene	++++ 0.93100	1.18171 0.88258	1.19133	1.10915	1.04375	0.97796	AVRG		1.04535		11.59108

Report Date : 28-May-2004 02:57

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## STL-Denver

## INITIAL CALIBRATION DATA

Start Cal Date : 06-MAY-2004 10:56  
 End Cal Date : 27-MAY-2004 21:14  
 Quant Method : ISTD  
 Target Version : 3.50  
 Integrator : HP RTE  
 Method file : /chem/Y.i/052704.b/8270C.m  
 Cal Date : 28-May-2004 02:57 kiddd

Compound	5	10	20	50	80	120	Curve	Coefficients		%RSD or R <sup>2</sup>
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6		b	m1	m2
	160	200								
	Level 7	Level 8								
85 2,4-Dinitrophenol	+++++	+++++	21252	62369	121750	184945				
	252801	319551					WLINR	0.21057	0.18958	0.99835
86 4-Nitrophenol	+++++	+++++	0.13980	0.14737	0.14715	0.14836				
	0.15048	0.15267					AVRG		0.14764	2.96176
87 2,4-Dinitrotoluene	+++++	0.29505	0.34812	0.32926	0.31933	0.31263				
	0.29990	0.29037					AVRG		0.31352	6.56587
88 Dibenzofuran	+++++	1.61617	1.61653	1.48961	1.35554	1.29081				
	1.20108	1.13401					AVRG		1.38625	13.95493
93 Diethyl phthalate	+++++	1.13213	1.17262	1.08860	0.99252	0.96551				
	0.92466	0.90365					AVRG		1.02567	10.27951
95 4-Chlorophenyl phenyl ether	+++++	0.64376	0.64134	0.60059	0.54958	0.51820				
	0.49328	0.47173					AVRG		0.55978	12.50051
96 Fluorene	+++++	1.36857	1.36485	1.27289	1.13378	1.09819				
	1.04501	1.00233					AVRG		1.18366	12.76050
97 4-Nitroaniline	+++++	0.19884	0.25937	0.26061	0.25008	0.25528				
	0.25036	0.25968					AVRG		0.24775	8.88027
99 4,6-Dinitro-2-methylphenol	+++++	+++++	0.18133	0.20035	0.19496	0.20437				
	0.20007	0.20807					AVRG		0.19819	4.72584

## STL-Denver

## INITIAL CALIBRATION DATA

Start Cal Date : 06-MAY-2004 10:56  
 End Cal Date : 27-MAY-2004 21:14  
 Quant Method : ISTD  
 Target Version : 3.50  
 Integrator : HP RTE  
 Method file : /chem/Y.i/052704.b/8270C.m  
 Cal Date : 28-May-2004 02:57 kidd

Compound	5	10	20	50	80	120	Curve	Coefficients		%RSD or R <sup>2</sup>
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6		b	m1	m2
	160 Level 7	200 Level 8								
101 N-nitrosodiphenylamine	++++ 0.71531	0.83604 0.70356	0.89177	0.80577	0.75465	0.75139	AVRG		0.77978	
102 Azobenzene	++++ 0.92019	1.10855 0.88499	1.12133	1.07093	0.98729	0.96666	AVRG		1.00856	
108 4-Bromophenyl phenyl ether	++++ 0.17194	0.18892 0.16533	0.20024	0.18958	0.18122	0.17441	AVRG		0.18166	
110 Hexachlorobenzene	++++ 0.15798	0.17840 0.15128	0.18321	0.17164	0.16450	0.16110	AVRG		0.16687	
113 Pentachlorophenol	++++ 0.09980	++++ 0.10147	0.06585	0.08399	0.09037	0.09761	AVRG		0.08985	
118 Phenanthrene	++++ 0.82534	1.07769 0.78980	1.07894	0.99428	0.91544	0.85321	AVRG		0.93353	
122 Anthracene	++++ 0.82056	1.07929 0.78175	1.11113	0.99315	0.91420	0.86818	AVRG		0.93832	
123 Carbazole	++++ 0.70210	0.78461 0.69157	0.86836	0.80081	0.75376	0.73486	AVRG		0.76230	
125 Di-n-butyl phthalate	++++ 0.82970	0.87461 0.80482	1.00292	0.94840	0.88550	0.87248	AVRG		0.88835	

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## STL-Denver

## INITIAL CALIBRATION DATA

Start Cal Date : 06-MAY-2004 10:56  
 End Cal Date : 27-MAY-2004 21:14  
 Quant Method : ISTD  
 Target Version : 3.50  
 Integrator : HP RTE  
 Method file : /chem/Y.i/052704.b/8270C.m  
 Cal Date : 28-May-2004 02:57 kidd

Compound	5	10	20	50	80	120	Curve	Coefficients			%RSD or R <sup>2</sup>
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6		b	m1	m2	
	160 Level 7	200 Level 8									
130 Fluoranthene	++++ 0.79335	1.01248 0.77066	1.08853	0.95293	0.85358	0.83589					
							AVRG		0.90106		13.23718
131 Benzidine	++++ 219991	28450 240676	51137	85427	130268	151396					
							WLINR	-0.23629	0.14214		0.99267
132 Pyrene	++++ 1.20546	1.43423 1.20919	1.48103	1.36854	1.30147	1.27113					
							AVRG		1.32443		8.11603
137 Butyl benzyl phthalate	++++ 0.47269	0.40607 0.47365	0.49173	0.47793	0.46805	0.47797					
							AVRG		0.46687		5.95704
140 3 3'-Dichlorobenzidine	++++ 0.37243	0.30727 0.36553	0.35687	0.36324	0.36162	0.36331					
							AVRG		0.35575		6.15160
141 Benzo(a)anthracene	++++ 1.03028	1.12423 1.01546	1.18726	1.12359	1.05984	1.04722					
							AVRG		1.08398		5.75739
144 Chrysene	++++ 0.95156	1.12709 0.91717	1.14747	1.06739	1.01025	0.96597					
							AVRG		1.02670		8.70438
143 Bis(2-ethylhexyl) phthalate	0.48573 0.63154	0.54659 0.62822	0.64502	0.62672	0.62521	0.63730					
							AVRG		0.60329		9.37282
146 Di-n-octyl phthalate	++++ 1.01113	0.85395 1.00155	1.00981	1.00218	0.98069	1.00514					
							AVRG		0.98064		5.78859



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## STL-Denver

## INITIAL CALIBRATION DATA

Start Cal Date : 06-MAY-2004 10:56  
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 Quant Method : ISTD  
 Target Version : 3.50  
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 Method file : /chem/Y.i/052704.b/8270C.m  
 Cal Date : 28-May-2004 02:57 kidd

Compound	5	10	20	50	80	120	Curve	Coefficients		%RSD or R <sup>2</sup>
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6		b	m1	m2
	160	200								
	Level 7	Level 8								
147 Benzo(b)fluoranthene	++++	1.10243	1.16049	1.14222	1.13285	1.13601				
	1.26188	1.15874					AVRG		1.15637	4.35738
148 Benzo(k)fluoranthene	++++	1.26618	1.31166	1.29371	1.24866	1.25957				
	1.13624	1.19638					AVRG		1.24463	4.82981
150 Benzo(a)pyrene	++++	1.02187	1.07669	1.05735	1.04452	1.04153				
	1.05575	1.04236					AVRG		1.04858	1.62247
155 Indeno(1,2,3-cd)pyrene	++++	0.94929	1.01189	0.99362	1.01147	1.03254				
	1.06212	1.05391					AVRG		1.01641	3.77314
156 Dibenz(a,h)anthracene	++++	0.86382	0.93585	0.90533	0.92333	0.93181				
	0.95419	0.92928					AVRG		0.92052	3.14446
157 Benzo(g,h,i)perylene	++++	0.80573	0.85188	0.84033	0.86497	0.88806				
	0.93020	0.92641					AVRG		0.87251	5.22144
168 Methyl Styrene	++++	1.42925	1.45578	1.37651	1.34884	1.31901				
	1.24588	1.18886					AVRG		1.33773	7.14976
202 Alachlor	++++	0.10481	0.12186	0.11928	0.11063	0.10966				
	0.10680	0.10390					AVRG		0.11099	6.31725
204 Atrazine	++++	0.02421	0.03007	0.02372	0.01530	0.00761				
	0.00480	0.00305					AVRG		0.01554	68.89750

-narrate

## STL-Denver

## INITIAL CALIBRATION DATA

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 Target Version : 3.50  
 Integrator : HP RTE  
 Method file : /chem/Y.i/052704.b/8270C.m  
 Cal Date : 28-May-2004 02:57 kiddd

Compound	5	10	20	50	80	120	Curve	Coefficients		RSD or R <sup>2</sup>
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6		b	m1	m2
	160	200								
	Level 7	Level 8								
205 Caprolactam	++++	0.08756	0.11205	0.11716	0.11751	0.11859				
	0.11241	0.10879					AVRG		0.11058	9.72707
207 2,3-Dichlorobenzeneamine	++++	0.62013	0.62192	0.59548	0.56334	0.53642				
	0.51820	0.49397					AVRG		0.56421	8.93838
206 Decane	++++	1.28682	1.27475	1.18107	1.14313	1.10914				
	1.04494	1.00652					AVRG		1.14948	9.30120
213 n-Dodecane	++++	0.52656	0.53715	0.52040	0.50069	0.48306				
	0.46853	0.44684					AVRG		0.49760	6.64778
210 Tetradecane	++++	0.52308	0.53484	0.51298	0.48928	0.46920				
	0.45061	0.41593					AVRG		0.48513	8.80139
209 Hexadecane	++++	0.67456	0.69524	0.65760	0.62390	0.59627				
	0.57180	0.53750					AVRG		0.62241	9.21038
208 n-Octadecane	++++	0.17374	0.18326	0.18360	0.17614	0.16848				
	0.16347	0.15096					AVRG		0.17138	6.76451
211 n-Eicosane	++++	0.44414	0.46133	0.41629	0.38869	0.37204				
	0.34493	0.32928					AVRG		0.39382	12.54788
212 n-Docosane	++++	0.32509	0.35444	0.32047	0.30213	0.29375				
	0.27909	0.26946					AVRG		0.30635	9.55741

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## STL-Denver

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 Integrator : HP RTE  
 Method file : /chem/Y.i/052704.b/8270C.m  
 Cal Date : 28-May-2004 02:57 kiddd

Compound	5	10	20	50	80	120	Curve	Coefficients			%RSD or R <sup>2</sup>
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6		b	m1	m2	
	160 Level 7	200 Level 8									
\$ 36 Nitrobenzene-d5	++++ 1.27176	1.29036 1.26853	1.38517	1.32179	1.31059	1.32001					
							AVRG		1.30974		3.03122
\$ 70 2-Fluorobiphenyl	++++ 1.02304	1.31122 0.96342	1.31596	1.22191	1.12743	1.07692					
							AVRG		1.14856		12.07838
\$ 133 Terphenyl-d14	++++ 0.81140	0.90293 0.81109	0.94533	0.87976	0.84900	0.85406					
							AVRG		0.86480		5.63817
\$ 10 2-Fluorophenol	++++ 1.16906	1.16151 1.14791	1.27364	1.21848	1.22767	1.21618					
							AVRG		1.20206		3.70706
\$ 14 Phenol-d5	++++ 1.42602	1.51044 1.42918	1.59040	1.48777	1.49169	1.47933					
							AVRG		1.48783		3.71983
\$ 103 2,4,6-Tribromophenol	++++ 0.07492	0.06751 0.07172	0.07754	0.07716	0.07443	0.07459					
							AVRG		0.07398		4.65379
\$ 163 1,2-Dichlorobenzene d4	++++ 0.75535	0.92352 0.71952	0.92403	0.84951	0.81992	0.80010					
							AVRG		0.82742		9.45174
\$ 162 2-Chlorophenol-d4	++++ 1.18411	1.41799 1.15877	1.45560	1.33911	1.29218	1.26534					
							AVRG		1.30187		8.54640

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STL-Denver

## INITIAL CALIBRATION DATA

Start Cal Date : 06-MAY-2004 10:56  
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Quant Method : ISTD  
Target Version : 3.50  
Integrator : HP RTE  
Method file : /chem/Y.i/052704.b/8270C.m  
Cal Date : 28-May-2004 02:57 kidd

Curve	Formula	Units
-----	-----	-----
Averaged	Amt = Rsp/ml	Response
Wt Linear	Amt = b + Rsp/ml	Response
Quad	Amt = b + m1*Rsp + m2*Rsp^2	Response

INITIAL CALIBRATION REPORT

Instrument ID: Y.i  
Lab File ID: y1727.d  
Analysis Type: WATER

Injection Date: 27-MAY-2004 21:14  
Lab Sample ID: HSL 0200  
Method File: /chem/Y.i/052704.b/8270C.m

COMPOUND	%RSD
N-Nitrosodimethylamine	3.7
Pyridine	5.7
2-Fluorophenol	3.7
Phenol-d5	3.7
Phenol	3.4
Aniline	20.6
Methyl Styrene	7.1
Bis(2-chloroethyl) ether	3.9
Decane	9.3
2-Chlorophenol-d4	8.5
2-Chlorophenol	5.5
1,3-Dichlorobenzene	7.4
1,4-Dichlorobenzene	7.8
Benzyl alcohol	2.8
1,2-Dichlorobenzene-d4	9.5
1,2-Dichlorobenzene	8.5
2-Methylphenol	5.8
2,2'-oxybis(1-chloropropane)	5.6
1H-Indene	7.3
4-Methylphenol	6.7
N-nitrosodi-n-propylamine	4.7
Acetophenone	5.2
Hexachloroethane	5.0
Nitrobenzene-d5	3.0
Nitrobenzene	4.6
Isophorone	3.1
2-Nitrophenol	5.1
2,4-Dimethylphenol	6.1
Bis(2-chloroethoxy)methane	4.3
Benzoic acid	3.7
2,4-Dichlorophenol	5.8
n-Dodecane	6.6
1,2,4-Trichlorobenzene	8.3
Naphthalene	8.3
4-Chloroaniline	5.9
Hexachlorobutadiene	10.1
Caprolactam	9.7
4-Chloro-3-methylphenol	4.1
2-Methylnaphthalene	10.5

INITIAL CALIBRATION REPORT

Instrument ID: Y.i  
Lab File ID: y1727.d  
Analysis Type: WATER

Injection Date: 27-MAY-2004 21:14  
Lab Sample ID: HSL 0200  
Method File: /chem/Y.i/052704.b/8270C.m

COMPOUND	IRSD
1-Methylnaphthalene	10.8
Hexachlorocyclopentadiene	7.5
2,4,6-Trichlorophenol	6.5
2,3-Dichlorobenzeneamine	8.9
2,4,5-Trichlorophenol	3.7
2-Fluorobiphenyl	12.1
Tetradecane	8.8
2-Chloronaphthalene	10.6
2-Nitroaniline	6.1
Dimethyl phthalate	8.4
2,6-Dinitrotoluene	4.8
Acenaphthylene	10.2
3-Nitroaniline	5.7
Acenaphthene	11.6
2,4-Dinitrophenol	17.0
4-Nitrophenol	3.0
2,4-Dinitrotoluene	6.6
Dibenzofuran	14.0
Hexadecane	9.2
Diethyl phthalate	10.3
4-Chlorophenyl phenyl ether	12.5
Fluorene	12.8
4,6-Dinitro-2-methylphenol	4.7
4-Nitroaniline	8.9
N-nitrosodiphenylamine	8.7
Azobenzene	9.2
2,4,6-Tribromophenol	4.7
4-Bromophenyl phenyl ether	6.6
Hexachlorobenzene	6.8
Atrazine	68.9
n-Octadecane	6.8
Pentachlorophenol	15.0
Phenanthrene	12.7
Anthracene	13.5
Carbazole	8.1
Alachlor	6.3
Di-n-butyl phthalate	7.6
n-Eicosane	12.5
Fluoranthene	13.2

-WL 1/k<sup>2</sup>

-narrate

INITIAL CALIBRATION REPORT

Instrument ID: Y.i                      Injection Date: 27-MAY-2004 21:14  
Lab File ID: y1727.d                  Lab Sample ID: HSL 0200  
Analysis Type: WATER                  Method File: /chem/Y.i/052704.b/8270C.m

COMPOUND	%RSD
n-docosane	9.6
Benzidine	26.9
Pyrene	8.1
Terphenyl-d14	5.6
Butyl benzyl phthalate	6.0
Bis(2-ethylhexyl) phthalate	9.4
3,3'-Dichlorobenzidine	6.2
Benzo(a)anthracene	5.8
Chrysene	8.7
Di-n-octyl phthalate	5.8
Benzo(b)fluoranthene	4.4
Benzo(k)fluoranthene	4.8
Benzo(a)pyrene	1.6
Dibenz(a,h)anthracene	3.1
Indeno(1,2,3-cd)pyrene	3.8
Benzo(g,h,i)perylene	5.2

*Handwritten note:* WL 1/82

The average of all %RSD's in the initial calibration is 8.3 ✓

## STL-Denver

## INITIAL CALIBRATION DATA

Start Cal Date : 06-MAY-2004 10:56  
 End Cal Date : 27-MAY-2004 21:14  
 Quant Method : ISTD  
 Origin : Disabled  
 Target Version : 3.50  
 Integrator : HP RTE  
 Method file : /chem/Y.i/052704.b/8270C.m  
 Cal Date : 28-May-2004 02:46 kidd  
 Curve Type : Average

## Calibration File Names:

Level 1: /chem/Y.i/052704.b/y1720.d  
 Level 2: /chem/Y.i/051304.b/y1405.d  
 Level 3: /chem/Y.i/051304.b/y1406.d  
 Level 4: /chem/Y.i/051304.b/y1407.d  
 Level 5: /chem/Y.i/051304.b/y1404.d  
 Level 6: /chem/Y.i/051304.b/y1408.d  
 Level 7: /chem/Y.i/051304.b/y1409.d  
 Level 8: /chem/Y.i/0526042.b/y1684.d

Compound	5.000 Level 1	10.000 Level 2	20.000 Level 3	50.000 Level 4	80.000 Level 5	120.000 Level 6	RRP	% RSD
	160.000 Level 7	200.000 Level 8						
5 Pyridine	+++++ 1.11758	1.01016 1.10825	1.21429	1.17178	1.16319	1.13654	1.13168	5.700
4 N-Nitrosodimethylamine	+++++ 0.74321	0.67333 0.74592	0.73163	0.69667	0.72856	0.73523	0.72208	3.726
16 Aniline	+++++ 1.16517	1.82193 1.06635	1.77502	1.57171	1.43769	1.24469	1.44037	20.610
15 Phenol	+++++ 1.50048	1.59035 1.49687	1.64938	1.56834	1.59258	1.56184	1.56569	3.434
18 Bis(2-chloroethyl) ether	+++++ 1.18032	1.27470 1.16517	1.29747	1.22291	1.22538	1.24604	1.23028	3.863
20 2-Chlorophenol	+++++ 1.23672	1.38398 1.21844	1.42040	1.33656	1.31551	1.30809	1.31710	5.528
21 1,3-Dichlorobenzene	+++++ 1.32428	1.57186 1.30416	1.56784	1.45515	1.43067	1.39985	1.43626	7.380



## STL-Denver

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 Method file : /chem/Y.i/052704.b/8270C.m  
 Cal Date : 28-May-2004 02:46 kiddd  
 Curve Type : Average

Compound	5.000 Level 1	10.000 Level 2	20.000 Level 3	50.000 Level 4	80.000 Level 5	120.000 Level 6	RRF	% RSD
	160.000 Level 7	200.000 Level 8						
23 1,4-Dichlorobenzene	++++ 1.34723	1.59686 1.32085	1.62416	1.49110	1.45752	1.43901	1.46811	7.802
24 Benzyl alcohol	++++ 0.81749	0.77908 0.80471	0.85020	0.82442	0.83177	0.83353	0.82017	2.802
25 1,2-Dichlorobenzene	++++ 1.24415	1.51257 1.21153	1.50518	1.39894	1.35211	1.33900	1.36621	8.534
26 2-Methylphenol	++++ 1.07187	1.18368 1.05052	1.24092	1.16638	1.12234	1.12586	1.13737	5.777
27 1H-Indene	++++ 2.04260	2.37313 1.97011	2.41011	2.24022	2.19570	2.15364	2.19793	7.324
28 2,2'-oxybis(1-chloropropane)	++++ 1.41661	1.58839 1.37948	1.61094	1.51611	1.50282	1.48229	1.49952	5.591
29 4-Methylphenol	++++ 1.08174	1.16683 1.05428	1.28429	1.20987	1.16816	1.13294	1.15687	6.697
30 N-nitrosodi-n-propylamine	++++ 0.82303	0.80365 0.80771	0.90282	0.88006	0.87664	0.87472	0.85266	4.698
32 Acetophenone	++++ 1.57899	1.66792 1.53172	1.80380	1.66413	1.65050	1.67226	1.65276	5.161
33 Hexachloroethane	0.54622 0.51021	0.57062 0.50200	0.58087	0.55283	0.54931	0.53902	0.54388	4.968

## STL-Denver

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 Curve Type : Average

Compound	5.000 Level 1	10.000 Level 2	20.000 Level 3	50.000 Level 4	80.000 Level 5	120.000 Level 6	RRF	% RSD
	160.000 Level 7	200.000 Level 8						
37 Nitrobenzene	++++ 1.25325	1.32979 1.23723	1.42173	1.31324	1.30493	1.28997	1.30716	4.608
40 Isophorone	++++ 0.56787	0.54649 0.55982	0.59498	0.59229	0.58132	0.56959	0.57319	3.054
41 2-Nitrophenol	++++ 0.17582	0.16004 0.17212	0.18606	0.18543	0.18211	0.17789	0.17707	5.119
42 2,4-Dimethylphenol	++++ 0.28712	0.32736 0.28514	0.32901	0.31673	0.29688	0.29454	0.30526	6.133
43 Bis(2-chloroethoxy)methane	++++ 0.33782	0.35392 0.33295	0.37849	0.35547	0.34515	0.34358	0.34962	4.305
45 Benzoic acid	++++ 0.20847	++++ 0.21485	++++	0.20557	0.21749	0.22575	0.21442	3.699
46 2,4-Dichlorophenol	++++ 0.25233	0.26354 0.24890	0.29379	0.27968	0.26888	0.26223	0.26705	5.841
47 1,2,4-Trichlorobenzene	++++ 0.27776	0.32400 0.26755	0.33628	0.31198	0.29944	0.28702	0.30058	8.317
50 Naphthalene	++++ 0.86910	1.03497 0.84358	1.04602	0.98648	0.93670	0.91079	0.94680	8.326
51 4-Chloroaniline	++++ 0.37893	0.41238 0.36324	0.43109	0.41851	0.39861	0.39045	0.39903	5.917

## STL-Denver

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Compound	5.000 Level 1	10.000 Level 2	20.000 Level 3	50.000 Level 4	80.000 Level 5	120.000 Level 6	RRF	% RSD
	160.000 Level 7	200.000 Level 8						
52 Hexachlorobutadiene	++++ 0.15386	0.18402 0.14297	0.19047	0.17636	0.16814	0.15998	0.16797	10.087
59 4-Chloro-3-methylphenol	++++ 0.26636	0.26764 0.26513	0.29546	0.28455	0.27534	0.27015	0.27495	4.093
62 2-Methylnaphthalene	++++ 0.56349	0.70145 0.54555	0.71405	0.65802	0.62203	0.59171	0.62804	10.484
64 1-Methylnaphthalene	++++ 0.56637	0.70295 0.54337	0.72356	0.66162	0.62630	0.59481	0.63128	10.796
63 Hexachlorocyclopentadiene	++++ 0.32540	0.26562 0.31173	0.31576	0.33691	0.33125	0.32439	0.31587	7.520
67 2,4,6-Trichlorophenol	++++ 0.28521	0.30901 0.27294	0.32963	0.32002	0.30932	0.29952	0.30366	6.453
68 2,4,5-Trichlorophenol	++++ 0.34212	0.35862 0.32875	0.36698	0.36127	0.35123	0.34906	0.35115	3.670
71 2-Chloronaphthalene	++++ 0.89454	1.10672 0.85169	1.12789	1.04331	0.98048	0.94017	0.99211	10.593
74 2-Nitroaniline	++++ 0.28935	0.24795 0.28707	0.29568	0.29885	0.29328	0.29208	0.28632	6.063
76 Dimethyl phthalate	++++ 1.06053	1.23796 1.03160	1.29040	1.20283	1.13082	1.09758	1.15025	8.352

STL-Denver

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Cal Date : 28-May-2004 02:46 kidd  
Curve Type : Average

Compound	5.000	10.000	20.000	50.000	80.000	120.000	RRF	% RSD
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6		
	160.000	200.000						
	Level 7	Level 8						
79 2,6-Dinitrotoluene	+++++	0.22726	0.26220	0.26088	0.25118	0.25146		
	0.24599	0.24327					0.24889	4.757
81 Acenaphthylene	+++++	1.75015	1.80998	1.69966	1.57947	1.52898		
	1.45248	1.36515					1.59798	10.185
82 3-Nitroaniline	+++++	0.24759	0.29397	0.28775	0.28868	0.29073		
	0.28937	0.29215					0.28432	5.744
84 Acenaphthene	+++++	1.18171	1.19133	1.10915	1.04375	0.97796		
	0.93100	0.88258					1.04535	11.591
85 2,4-Dinitrophenol	+++++	+++++	0.11352	0.14772	0.16533	0.17977	✓	
	0.18205	0.18519					0.16227	17.035 ✓
86 4-Nitrophenol	+++++	+++++	0.13980	0.14737	0.14715	0.14836	✓	
	0.15048	0.15267					0.14764	2.962
87 2,4-Dinitrotoluene	+++++	0.29505	0.34812	0.32926	0.31933	0.31263		
	0.29990	0.29037					0.31352	6.566
88 Dibenzofuran	+++++	1.61617	1.61653	1.48961	1.35554	1.29081		
	1.20108	1.13401					1.38625	13.955
93 Diethyl phthalate	+++++	1.13213	1.17262	1.08860	0.99252	0.96551		
	0.92466	0.90365					1.02567	10.280
95 4-Chlorophenyl phenyl ether	+++++	0.64376	0.64134	0.60059	0.54958	0.51820		
	0.49328	0.47173					0.55978	12.501

## STL-Denver

## INITIAL CALIBRATION DATA

Start Cal Date : 06-MAY-2004 10:56  
 End Cal Date : 27-MAY-2004 21:14  
 Quant Method : ISTD  
 Origin : Disabled  
 Target Version : 3.50  
 Integrator : HP RTE  
 Method file : /chem/Y.i/052704.b/8270C.m  
 Cal Date : 28-May-2004 02:46 kiddd  
 Curve Type : Average

Compound	5.000 Level 1	10.000 Level 2	20.000 Level 3	50.000 Level 4	80.000 Level 5	120.000 Level 6	RRF	% RSD
	150.000 Level 7	200.000 Level 8						
96 Fluorene	++++ 1.04501	1.36857 1.00233	1.36485	1.27289	1.13378	1.09819	1.18366	12.760
97 4-Nitroaniline	++++ 0.25036	0.19884 0.25968	0.25937	0.26061	0.25008	0.25528	0.24775	8.880
99 4,6-Dinitro-2-methylphenol	++++ 0.20007	++++ 0.20807	0.18133	0.20035	0.19496	0.20437	0.19819	4.726
101 N-nitrosodiphenylamine	++++ 0.71531	0.83604 0.70356	0.89177	0.80577	0.75465	0.75139	0.77978	8.727
102 Azobenzene	++++ 0.92019	1.10855 0.88499	1.12133	1.07093	0.98729	0.96666	1.00856	9.221
108 4-Bromophenyl phenyl ether	++++ 0.17194	0.18892 0.16533	0.20024	0.18958	0.18122	0.17441	0.18166	6.645
110 Hexachlorobenzene	++++ 0.15798	0.17840 0.15128	0.18321	0.17164	0.16450	0.16110	0.16687	6.849
113 Pentachlorophenol	++++ 0.09980	++++ 0.10147	0.06585	0.08399	0.09037	0.09761	0.08985	14.974
118 Phenanthrene	++++ 0.82534	1.07769 0.78980	1.07894	0.99428	0.91544	0.85321	0.93353	12.732
122 Anthracene	++++ 0.82056	1.07929 0.78175	1.11113	0.99315	0.91420	0.86818	0.93832	13.524

## STL-Denver

## INITIAL CALIBRATION DATA

Start Cal Date : 06-MAY-2004 10:56  
 End Cal Date : 27-MAY-2004 21:14  
 Quant Method : ISTD  
 Origin : Disabled  
 Target Version : 3.50  
 Integrator : HP RTE  
 Method file : /chem/Y.i/052704.b/8270C.m  
 Cal Date : 28-May-2004 02:46 kidd  
 Curve Type : Average

Compound	5.000 Level 1	10.000 Level 2	20.000 Level 3	50.000 Level 4	80.000 Level 5	120.000 Level 6	RRF	% RSD
	160.000 Level 7	200.000 Level 8						
123 Carbazole	++++ 0.70210	0.78461 0.69157	0.86836	0.80081	0.75376	0.73486	0.76230	8.065
125 Di-n-butyl phthalate	++++ 0.82970	0.87461 0.80482	1.00292	0.94840	0.88550	0.87248	0.88835	7.634
130 Fluoranthene	++++ 0.79335	1.01248 0.77066	1.08853	0.95293	0.85358	0.83589	0.90106	13.237
131 Benzidine	++++ 0.15447	0.27174 0.13538	0.21719	0.17450	0.16880	0.14035	0.18035	26.944
132 Pyrene	++++ 1.20546	1.43423 1.20919	1.48103	1.36854	1.30147	1.27113	1.32443	8.116
137 Butyl benzyl phthalate	++++ 0.47269	0.40607 0.47365	0.49173	0.47793	0.46805	0.47797	0.46687	5.957
140 3,3'-Dichlorobenzidine	++++ 0.37243	0.30727 0.36553	0.35687	0.36324	0.36162	0.36331	0.35575	6.152
141 Benzo(a)anthracene	++++ 1.03028	1.12423 1.01546	1.18726	1.12359	1.05984	1.04722	1.08398	5.757
144 Chrysene	++++ 0.95156	1.12709 0.91717	1.14747	1.06739	1.01025	0.96597	1.02670	8.704
143 Bis(2-ethylhexyl) phthalate	0.48573 0.63154	0.54659 0.62822	0.64502	0.62672	0.62521	0.63730	0.60329	9.373

STL-Denver

INITIAL CALIBRATION DATA

Start Cal Date : 06-MAY-2004 10:56  
End Cal Date : 27-MAY-2004 21:14  
Quant Method : ISTD  
Origin : Disabled  
Target Version : 3.50  
Integrator : HP RTE  
Method file : /chem/Y.i/052704.b/8270C.m  
Cal Date : 28-May-2004 02:46 kiddd  
Curve Type : Average

Compound	5.000	10.000	20.000	50.000	80.000	120.000		
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	RRF	% RSD
	-----	-----	-----	-----	-----	-----		
	160.000	200.000						
	Level 7	Level 8						
146 Di-n-octyl phthalate	+++++	0.85395	1.00981	1.00218	0.98069	1.00514		
	1.01113	1.00155					0.98064	5.789
147 Benzo(b)fluoranthene	+++++	1.10243	1.16049	1.14222	1.13285	1.13601		
	1.26188	1.15874					1.15637	4.357
148 Benzo(k)fluoranthene	+++++	1.26618	1.31166	1.29371	1.24866	1.25957		
	1.13624	1.19638					1.24463	4.830
150 Benzo(a)pyrene	+++++	1.02187	1.07669	1.05735	1.04452	1.04153		
	1.05575	1.04236					1.04858	1.622
155 Indeno(1,2,3-cd)pyrene	+++++	0.94929	1.01189	0.99362	1.01147	1.03254		
	1.06212	1.05391					1.01641	3.773
156 Dibenz(a,h)anthracene	+++++	0.86382	0.93585	0.90533	0.92333	0.93181		
	0.95419	0.92928					0.92052	3.144
157 Benzo(g,h,i)perylene	+++++	0.80573	0.85188	0.84033	0.86497	0.88806		
	0.93020	0.92641					0.87251	5.221
168 Methyl Styrene	+++++	1.42925	1.45578	1.37651	1.34884	1.31901		
	1.24588	1.18886					1.33773	7.150
202 Alachlor	+++++	0.10481	0.12186	0.11928	0.11063	0.10966		
	0.10680	0.10390					0.11099	6.317
204 Atrazine	+++++	0.02421	0.03007	0.02372	0.01530	0.00761		
	0.00480	0.00305					0.01554	68.897

narrate

STL-Denver

INITIAL CALIBRATION DATA

Start Cal Date : 06-MAY-2004 10:56  
End Cal Date : 27-MAY-2004 21:14  
Quant Method : ISTD  
Origin : Disabled  
Target Version : 3.50  
Integrator : HP RTE  
Method file : /chem/Y.i/052704.b/8270C.m  
Cal Date : 28-May-2004 02:46 kidd  
Curve Type : Average

Compound	5.000	10.000	20.000	50.000	80.000	120.000	RRF	% RSD
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6		
	-----	-----	-----	-----	-----	-----		
	160.000	200.000						
	Level 7	Level 8						
=====								
205 Caprolactam	++++	0.08756	0.11205	0.11716	0.11751	0.11859		
	0.11241	0.10879					0.11058	9.727
-----								
207 2,3-Dichlorobenzeneamine	++++	0.62013	0.62192	0.59548	0.56334	0.53642		
	0.51820	0.49397					0.56421	8.938
-----								
206 Decane	++++	1.28682	1.27475	1.18107	1.14313	1.10914		
	1.04494	1.00652					1.14948	9.301
-----								
213 n-Dodecane	++++	0.52656	0.53715	0.52040	0.50069	0.48306		
	0.46853	0.44684					0.49760	6.648
-----								
210 Tetradecane	++++	0.52308	0.53484	0.51298	0.48928	0.46920		
	0.45061	0.41593					0.48513	8.801
-----								
209 Hexadecane	++++	0.67456	0.69524	0.65760	0.62390	0.59627		
	0.57180	0.53750					0.62241	9.210
-----								
208 n-Octadecane	++++	0.17374	0.18326	0.18360	0.17614	0.16848		
	0.16347	0.15096					0.17138	6.765
-----								
211 n-Eicosane	++++	0.44414	0.46133	0.41629	0.38869	0.37204		
	0.34493	0.32928					0.39382	12.548
-----								
212 n-Docosane	++++	0.32509	0.35444	0.32047	0.30213	0.29375		
	0.27909	0.26946					0.30635	9.557
-----								
=====								
\$ 36 Nitrobenzene-d5	++++	1.29036	1.38517	1.32179	1.31059	1.32001		
	1.27176	1.26853					1.30974	3.031
-----								



## STL-Denver

## INITIAL CALIBRATION DATA

Start Cal Date : 06-MAY-2004 10:56  
 End Cal Date : 27-MAY-2004 21:14  
 Quant Method : ISTD  
 Origin : Disabled  
 Target Version : 3.50  
 Integrator : HP RTE  
 Method file : /chem/Y.i/052704.b/8270C.m  
 Cal Date : 28-May-2004 02:46 kidd  
 Curve Type : Average

Compound	5.000 Level 1	10.000 Level 2	20.000 Level 3	50.000 Level 4	80.000 Level 5	120.000 Level 6	RRF	% RSD
	160.000 Level 7	200.000 Level 8						
\$ 70 2-Fluorobiphenyl	+++++	1.31122	1.31596	1.22191	1.12743	1.07692		
	1.02304	0.96342					1.14856	12.078
\$ 133 Terphenyl-d14	+++++	0.90293	0.94533	0.87976	0.84900	0.85406		
	0.81140	0.81109					0.86480	5.638
\$ 10 2-Fluorophenol	+++++	1.16151	1.27364	1.21848	1.22767	1.21618		
	1.16906	1.14791					1.20206	3.707
\$ 14 Phenol-d5	+++++	1.51044	1.59040	1.48777	1.49169	1.47933		
	1.42602	1.42918					1.48783	3.720
\$ 103 2,4,6-Tribromophenol	+++++	0.06751	0.07754	0.07716	0.07443	0.07459		
	0.07492	0.07172					0.07398	4.654
\$ 163 1,2-Dichlorobenzene-d4	+++++	0.92352	0.92403	0.84951	0.81992	0.80010		
	0.75535	0.71952					0.82742	9.452
\$ 162 2-Chlorophenol-d4	+++++	1.41799	1.45560	1.33911	1.29218	1.26534		
	1.18411	1.15877					1.30187	8.546

05-28-04

STL-Denver

BNA ANALYSIS QUANTITATION REPORT

Data file : /chem/Y.i/052704.b/y1720.d  
Lab Smp Id: HSL 0005 Client Smp ID: HSL\_0005  
Inj Date : 27-MAY-2004 18:05  
Operator : todear Inst ID: Y.i  
Smp Info : HSL\_0005,BNA1509,P:051104,E:053104  
Misc Info :  
Comment : SOP#CORP-MS-0001DEN, revision1.1  
Method : /chem/Y.i/052704.b/8270C.m  
Meth Date : 28-May-2004 02:55 kiddd Quant Type: ISTD  
Cal Date : 27-MAY-2004 18:05 Cal File: y1720.d  
Als bottle: 5 Calibration Sample, Level: 1  
Dil Factor: 1.00000  
Integrator: HP RTE Compound Sublist: 1-HSL.sub  
Target Version: 3.50  
Processing Host: chemsv03

Concentration Formula: Amt \* DF \* Vf/Vs \* CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vf	1000.00000	final volume at end of extraction (uL)
Vs	1000.00000	volume of sample extracted (mL)

Cpnd Variable Local Compound Variable

Compounds	QUANT' SIG				AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COL
					(ug/ml)	(ug/ml)
* 22 1,4-Dichlorobenzene-d4	152	5.818	5.818	(1.000)	153551	40.0000
* 49 Naphthalene-d8	136	7.047	7.047	(1.000)	605377	40.0000
* 83 Acenaphthene-d10	164	8.754	8.754	(1.000)	357083	40.0000
* 117 Phenanthrene-d10	188	10.021	10.021	(1.000)	627073	40.0000
* 142 Chrysene-d12	240	12.184	12.184	(1.000)	471323	40.0000
* 151 Perylene-d12	264	13.617	13.617	(1.000)	389459	40.0000
\$ 36 Nitrobenzene-d5	82	6.349	6.349	(1.091)	21683	4.31261(a)
\$ 70 2-Fluorobiphenyl	172	8.094	8.094	(0.925)	57070	5.56603(a)
\$ 133 Terphenyl-d14	244	11.266	11.266	(0.925)	50172	4.92367(a)
\$ 10 2-Fluorophenol	112	4.626	4.626	(0.795)	30829	6.68096(a)
\$ 14 Phenol-d5	99	5.453	5.453	(0.937)	41449	7.25717(a)
\$ 103 2,4,6-Tribromophenol	330	9.452	9.452	(0.943)	6366	5.48887(a)
\$ 163 1,2-Dichlorobenzene-d4	152	5.968	5.968	(1.026)	17798	5.60339(a)
\$ 162 2-Chlorophenol-d4	132	5.609	5.609	(0.964)	39128	7.82937(a)
5 Pyridine	79	3.413	3.413	(0.587)	17445	4.01562(a)

Compounds	QUANT SIG					AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)
4 N-Nitrosodimethylamine	74	3.349	3.349	(0.576)	12526	5.00000	4.51893(a)
16 Aniline	93	5.517	5.517	(0.948)	34455	5.00000	5.74829(a)
15 Phenol	94	5.464	5.464	(0.939)	27926	5.00000	4.64633(a)
18 Bis(2-chloroethyl) ether	93	5.550	5.550	(0.954)	23677	5.00000	5.01336(a)
20 2-Chlorophenol	128	5.625	5.625	(0.967)	25658	5.00000	5.07471(a)
21 1,3-Dichlorobenzene	146	5.764	5.764	(0.991)	28846	5.00000	5.23191(a)
23 1,4-Dichlorobenzene	146	5.834	5.834	(1.003)	30198	5.00000	5.35832(a)
24 Benzyl alcohol	108	5.942	5.942	(1.021)	12871	5.00000	4.08803(a)
25 1,2-Dichlorobenzene	146	5.979	5.979	(1.028)	28336	5.00000	5.40291(a)
26 2-Methylphenol	108	6.027	6.027	(1.036)	22404	5.00000	5.13135(a)
27 1H-Indene	116	6.060	6.060	(1.042)	44720	5.00000	5.30024(a)
28 2,2'-oxybis(1-chloropropane)	45	6.044	6.044	(1.039)	28731	5.00000	4.99121(aQ)
29 4-Methylphenol	108	6.172	6.172	(1.061)	21877	5.00000	4.92616(a)
30 N-nitrosodi-n-propylamine	70	6.172	6.172	(1.061)	12819	5.00000	3.91638(a)
32 Acetophenone	105	6.199	6.199	(1.065)	29777	5.00000	4.69330
33 Hexachloroethane	117	6.301	6.301	(1.083)	10484	5.00000	5.02143(a)
37 Nitrobenzene	77	6.371	6.371	(1.095)	24061	5.00000	4.79503(a)
40 Isophorone	82	6.586	6.586	(0.934)	37306	5.00000	4.30042(a)
41 2-Nitrophenol	139	6.677	6.677	(0.947)	10378	5.00000	3.87268(a)
42 2,4-Dimethylphenol	107	6.682	6.682	(0.948)	23566	5.00000	5.10102(a)
43 Bis(2-chloroethoxy)methane	93	6.774	6.774	(0.961)	24976	5.00000	4.72014(a)
46 2,4-Dichlorophenol	162	6.913	6.913	(0.981)	17979	5.00000	4.44844(a)
47 1,2,4-Trichlorobenzene	180	6.983	6.983	(0.991)	24679	5.00000	5.42510(a)
50 Naphthalene	128	7.069	7.069	(1.003)	78490	5.00000	5.47757(a)
51 4-Chloroaniline	127	7.128	7.128	(1.011)	29468	5.00000	4.87953(a)
52 Hexachlorobutadiene	225	7.160	7.160	(1.016)	13899	5.00000	5.46742(a)
59 4-Chloro-3-methylphenol	107	7.579	7.579	(1.075)	18448	5.00000	4.43338(a)
62 2-Methylnaphthalene	142	7.750	7.750	(1.100)	51726	5.00000	5.44194(a)
64 1-Methylnaphthalene	142	7.847	7.847	(1.113)	53016	5.00000	5.54903(a)
63 Hexachlorocyclopentadiene	237	7.885	7.885	(0.901)	9714	5.00000	3.44498(a)
67 2,4,6-Trichlorophenol	196	8.030	8.030	(0.917)	12306	5.00000	4.53956(a)
68 2,4,5-Trichlorophenol	196	8.073	8.073	(0.922)	15369	5.00000	4.90282(a)
71 2-Chloronaphthalene	162	8.239	8.239	(0.941)	48861	5.00000	5.51687(a)
74 2-Nitroaniline	65	8.346	8.346	(0.953)	8788	5.00000	3.43816(a)
76 Dimethyl phthalate	163	8.475	8.475	(0.968)	51093	5.00000	4.97578(a)
79 2,6-Dinitrotoluene	165	8.556	8.556	(0.977)	8443	5.00000	3.79996(a)
81 Acenaphthylene	152	8.631	8.631	(0.986)	75063	5.00000	5.26193(a)
82 3-Nitroaniline	138	8.733	8.733	(0.998)	8692	5.00000	3.42454(aQ)
84 Acenaphthene	153	8.786	8.786	(1.004)	52474	5.00000	5.62304(a)
85 2,4-Dinitrophenol	184	Compound Not Detected.					
87 2,4-Dinitrotoluene	165	8.926	8.926	(1.020)	10976	5.00000	3.92163(a)
88 Dibenzofuran	168	8.942	8.942	(1.021)	71480	5.00000	5.77610(a)
93 Diethyl phthalate	149	9.092	9.092	(1.039)	48368	5.00000	5.28252(a)
95 4-Chlorophenyl phenyl ether	204	9.216	9.216	(1.053)	28207	5.00000	5.64453(a)
96 Fluorene	166	9.237	9.237	(1.055)	58896	5.00000	5.57378(a)
97 4-Nitroaniline	138	9.275	9.275	(1.059)	6788	5.00000	3.06920(a)
99 4,6-Dinitro-2-methylphenol	198	9.280	9.280	(1.060)	2509	5.00000	1.41808(a)

Compounds	QUANT SIG						AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE		CAL-AMT (ug/ml)	ON-COL (ug/ml)
=====	----	--	-----	-----	-----		-----	-----
101 N-nitrosodiphenylamine	169	9.323	9.323	(1.065)	35766		5.00000	5.13792(a)
102 Azobenzene	77	9.355	9.355	(1.069)	47183		5.00000	5.24052(a)
108 4-Bromophenyl phenyl ether	248	9.635	9.635	(0.961)	14229		5.00000	4.99634(a)
110 Hexachlorobenzene	284	9.699	9.699	(0.968)	13657		5.00000	5.22053(a)
113 Pentachlorophenol	266	9.871	9.871	(0.985)	2064		5.00000	1.46533(a)
118 Phenanthrene	178	10.042	10.042	(1.002)	84134		5.00000	5.74890(a)
122 Anthracene	178	10.085	10.085	(1.006)	82349		5.00000	5.59819(a)
123 Carbazole	167	10.220	10.220	(1.020)	59412		5.00000	4.97156(a)
125 Di-n-butyl phthalate	149	10.402	10.402	(1.038)	62518		5.00000	4.48914(a)
130 Fluoranthene	202	10.998	10.998	(1.097)	78447		5.00000	5.55346(a)
131 Benzidine	184	11.100	11.100	(0.911)	17827		5.00000	1.19214(a)
132 Pyrene	202	11.191	11.191	(0.918)	80828		5.00000	5.17932(a)
137 Butyl benzyl phthalate	149	11.615	11.615	(0.953)	21353		5.00000	3.88153(a)
140 3,3'-Dichlorobenzidine	252	12.136	12.136	(0.996)	16300		5.00000	3.88847(a)
141 Benzo(a)anthracene	228	12.173	12.173	(0.999)	63429		5.00000	4.96600(aH)
144 Chrysene	228	12.206	12.206	(1.002)	69403		5.00000	5.73688(a)
143 Bis(2-ethylhexyl) phthalate	149	12.039	12.039	(0.988)	28617		5.00000	4.02567(a)
146 Di-n-octyl phthalate	149	Compound Not Detected.						
147 Benzo(b)fluoranthene	252	13.172	13.172	(0.967)	47684		5.00000	4.23519(aH)
148 Benzo(k)fluoranthene	252	13.199	13.199	(0.969)	64743		5.00000	5.34258(a)
150 Benzo(a)pyrene	252	13.553	13.553	(0.995)	47919		5.00000	4.69358(a)
155 Indeno(1,2,3-cd)pyrene	276	15.120	15.120	(1.110)	42966		5.00000	4.34165(a)
156 Dibenzo(a,h)anthracene	278	15.110	15.110	(1.110)	40021		5.00000	4.46534(aQ)
157 Benzo(g,h,i)perylene	276	15.587	15.587	(1.145)	36671		5.00000	4.31668(a)
168 Methyl Styrene	118	5.539	5.539	(0.952)	25998		5.00000	5.06265(a)
202 Alachlor	188	10.263	10.263	(1.024)	7126		5.00000	4.09538(a)
204 Atrazine	200	9.742	9.742	(0.972)	1113		5.00000	4.56945(aQ)
205 Caprolactam	55	7.471	7.471	(1.060)	4908		5.00000	2.93266(a)
207 2,3-Dichlorobenzeneamine	161	8.035	8.035	(0.918)	25540		5.00000	5.07074(a)
206 Decane	43	5.598	5.598	(0.962)	23538		5.00000	5.33426(a)
213 n-Dodecane	43	6.956	6.956	(0.795)	22210		5.00000	4.99983(a)
210 Tetradecane	43	8.115	8.115	(0.927)	22057		5.00000	5.09305(a)
209 Hexadecane	57	9.055	9.055	(1.034)	29146		5.00000	5.24558(a)
208 n-Octadecane	85	9.817	9.817	(0.980)	12619		5.00000	4.69689(a)
211 n-Eicosane	43	10.461	10.461	(1.195)	18707		5.00000	5.32111(a)
212 n-docosane	43	11.057	11.057	(1.263)	14015		5.00000	5.12474(a)

QC Flag Legend

- a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
- Q - Qualifier signal failed the ratio test.
- H - Operator selected an alternate compound hit.

STL-Denver

INTERNAL STANDARD COMPOUNDS  
AREA AND RT SUMMARY

Instrument ID: Y.i	Calibration Date: 27-MAY-2004
Lab File ID: y1720.d	Calibration Time: 19:53
Lab Smp Id: HSL 0005	Client Smp ID: HSL_0005
Analysis Type: SV	Level: LOW
Quant Type: ISTD	Sample Type: WATER
Operator: todear	
Method File: /chem/Y.i/052704.b/8270C.m	
Misc Info:	

Test Mode:  
Use Last Continuing Calibrator.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
22 1,4-Dichlorobenze	162127	81064	324254	153551	-5.29
49 Naphthalene-d8	630966	315483	1261932	605377	-4.06
83 Acenaphthene-d10	368193	184096	736386	357083	-3.02
117 Phenanthrene-d10	591673	295836	1183346	627073	5.98
142 Chrysene-d12	385856	192928	771712	471323	22.15
151 Perylene-d12	295607	147804	591214	389459	31.75

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
22 1,4-Dichlorobenze	5.82	5.32	6.32	5.82	0.01
49 Naphthalene-d8	7.05	6.55	7.55	7.05	0.01
83 Acenaphthene-d10	8.76	8.26	9.26	8.75	-0.06
117 Phenanthrene-d10	10.02	9.52	10.52	10.02	0.00
142 Chrysene-d12	12.16	11.66	12.66	12.18	0.18
151 Perylene-d12	13.59	13.09	14.09	13.62	0.20

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/Y.i/052704.b/y1720.d

Date : 27-MAY-2004 18:05

Client ID: HSL\_0005

Sample Info: HSL\_0005,BNA1509,P:051104,E:053104

Volume Injected (uL): 0.5

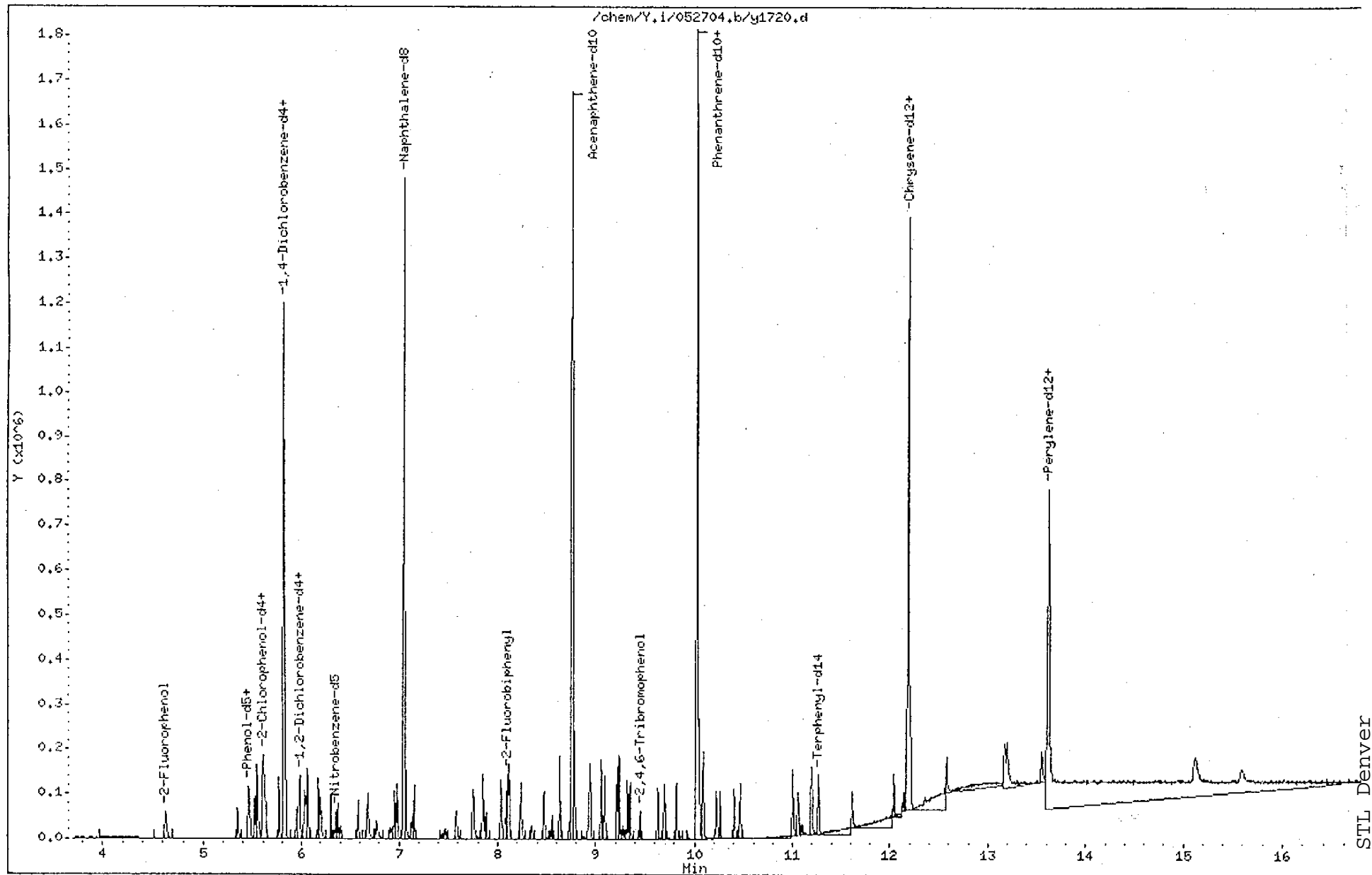
Column phase: Rtx-5ms 30m 0.5um

Instrument: Y.i

Operator: todear

Column diameter: 0.25

Page 5



OK  
05-28-04

STL-Denver

BNA ANALYSIS QUANTITATION REPORT

Data file : /chem/Y.i/052704.b/y1721.d  
Lab Smp Id: HSL 0010 Client Smp ID: HSL\_0010  
Inj Date : 27-MAY-2004 18:32  
Operator : todear Inst ID: Y.i  
Smp Info : HSL\_0010,BNA1509,P:051104,E:053104  
Misc Info :  
Comment : SOP#CORP-MS-0001DEN, revision1.1  
Method : /chem/Y.i/052704.b/8270C.m  
Meth Date : 28-May-2004 02:55 kiddd Quant Type: ISTD  
Cal Date : 13-MAY-2004 18:48 Cal File: y1405.d  
Als bottle: 6 Calibration Sample, Level: 2  
Dil Factor: 1.00000  
Integrator: HP RTE Compound Sublist: 1-HSL.sub  
Target Version: 3.50  
Processing Host: chemsv03

Concentration Formula: Amt \* DF \* Vf/Vs \* CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vf	1000.00000	final volume at end of extraction (uL)
Vs	1000.00000	volume of sample extracted (mL)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG						AMOUNTS	
		MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT	ON-COL
							(ug/ml)	(ug/ml)
* 22 1,4-Dichlorobenzene-d4	152	5.816	5.816	(1.000)	141285	40.0000		
* 49 Naphthalene-d8	136	7.045	7.045	(1.000)	559442	40.0000		
* 83 Acenaphthene-d10	164	8.757	8.757	(1.000)	328246	40.0000		
* 117 Phenanthrene-d10	188	10.019	10.019	(1.000)	576666	40.0000		
* 142 Chrysene-d12	240	12.171	12.171	(1.000)	418790	40.0000		
* 151 Perylene-d12	264	13.599	13.599	(1.000)	341614	40.0000		
\$ 36 Nitrobenzene-d5	82	6.353	6.353	(1.092)	45577	10.0000	9.85197(a)	
\$ 70 2-Fluorobiphenyl	172	8.097	8.097	(0.925)	107601	10.0000	11.4163	
\$ 133 Terphenyl-d14	244	11.253	11.253	(0.925)	94535	10.0000	10.4410	
\$ 10 2-Fluorophenol	112	4.624	4.624	(0.795)	61539	15.0000	14.4939	
\$ 14 Phenol-d5	99	5.451	5.451	(0.937)	80026	15.0000	15.2279	
\$ 103 2,4,6-Tribromophenol	330	9.450	9.450	(0.943)	14600	15.0000	13.6887	
\$ 163 1,2-Dichlorobenzene-d4.	152	5.966	5.966	(1.026)	32620	10.0000	11.1614	
\$ 162 2-Chlorophenol-d4	132	5.606	5.606	(0.964)	75128	15.0000	16.3379	
5 Pyridine	79	3.411	3.411	(0.586)	35680	10.0000	8.92614(a)	

Compounds	QUANT SIG			EXP RT	REL RT	RESPONSE	AMOUNTS	
	MASS	RT					CAL-AMT (ug/ml)	ON-COL (ug/ml)
-----	----	--	-----	-----	-----	-----	-----	-----
4 N-Nitrosodimethylamine	74	3.352	3.352 (0.576)			23783	10.0000	9.32494 (a)
16 Aniline	93	5.515	5.515 (0.948)			64353	10.0000	10.2526
15 Phenol	94	5.462	5.462 (0.939)			56173	10.0000	10.1575
18 Bis(2-chloroethyl) ether	93	5.553	5.553 (0.955)			45024	10.0000	10.3610
20 2-Chlorophenol	128	5.623	5.623 (0.967)			48884	10.0000	10.5078
21 1,3-Dichlorobenzene	146	5.762	5.762 (0.991)			55520	10.0000	10.9441
23 1,4-Dichlorobenzene	146	5.832	5.832 (1.003)			56403	10.0000	10.8770
24 Benzyl alcohol	108	5.939	5.939 (1.021)			27518	10.0000	9.49895 (a)
25 1,2-Dichlorobenzene	146	5.982	5.982 (1.029)			53426	10.0000	11.0713
26 2-Methylphenol	108	6.025	6.025 (1.036)			41809	10.0000	10.4072
27 1H-Indene	116	6.063	6.063 (1.042)			83822	10.0000	10.7971
28 2,2'-oxybis(1-chloropropane)	45	6.041	6.041 (1.039)			56104	10.0000	10.5927
29 4-Methylphenol	108	6.170	6.170 (1.061)			41214	10.0000	10.0861
30 N-nitrosodi-n-propylamine	70	6.175	6.175 (1.062)			28386	10.0000	9.42521 (a)
32 Acetophenone	105	6.192	6.192 (1.065)			58913	10.0000	10.0917
33 Hexachloroethane	117	6.299	6.299 (1.083)			20155	10.0000	10.4916
37 Nitrobenzene	77	6.369	6.369 (1.095)			46970	10.0000	10.1731
40 Isophorone	82	6.583	6.583 (0.934)			76433	10.0000	9.53420 (a)
41 2-Nitrophenol	139	6.675	6.675 (0.947)			22383	10.0000	9.03830 (a)
42 2,4-Dimethylphenol	107	6.680	6.680 (0.948)			45785	10.0000	10.7242
43 Bis(2-chloroethoxy)methane	93	6.771	6.771 (0.961)			49499	10.0000	10.1228
45 Benzoic acid	122	6.744	6.744 (0.957)			15445	10.0000	5.15013 (a)
46 2,4-Dichlorophenol	162	6.905	6.905 (0.980)			36859	10.0000	9.86863 (a)
47 1,2,4-Trichlorobenzene	180	6.981	6.981 (0.991)			45315	10.0000	10.7794
50 Naphthalene	128	7.066	7.066 (1.003)			144751	10.0000	10.9312
51 4-Chloroaniline	127	7.126	7.126 (1.011)			57676	10.0000	10.3346
52 Hexachlorobutadiene	225	7.158	7.158 (1.016)			25737	10.0000	10.9554
59 4-Chloro-3-methylphenol	107	7.576	7.576 (1.075)			37432	10.0000	9.73418 (a)
62 2-Methylnaphthalene	142	7.748	7.748 (1.100)			98105	10.0000	11.1688
64 1-Methylnaphthalene	142	7.850	7.850 (1.114)			98315	10.0000	11.1353
63 Hexachlorocyclopentadiene	237	7.882	7.882 (0.900)			21797	10.0000	8.40922 (a)
67 2,4,6-Trichlorophenol	196	8.027	8.027 (0.917)			25358	10.0000	10.1761
68 2,4,5-Trichlorophenol	196	8.070	8.070 (0.922)			29429	10.0000	10.2128
71 2-Chloronaphthalene	162	8.237	8.237 (0.941)			90819	10.0000	11.1552
74 2-Nitroaniline	65	8.344	8.344 (0.953)			20347	10.0000	8.65976 (a)
76 Dimethyl phthalate	163	8.473	8.473 (0.968)			101589	10.0000	10.7626
79 2,6-Dinitrotoluene	165	8.553	8.553 (0.977)			18649	10.0000	9.13076 (a)
81 Acenaphthylene	152	8.634	8.634 (0.986)			143620	10.0000	10.9522
82 3-Nitroaniline	138	8.730	8.730 (0.997)			20318	10.0000	8.70830 (a)
84 Acenaphthene	153	8.784	8.784 (1.003)			96973	10.0000	11.3044
85 2,4-Dinitrophenol	184	8.822	8.822 (1.007)			2657	10.0000	10.1309
86 4-Nitrophenol	109	8.865	8.865 (1.012)			7034	10.0000	5.80586 (a)
87 2,4-Dinitrotoluene	165	8.924	8.924 (1.019)			24212	10.0000	9.41073 (a)
88 Dibenzofuran	168	8.940	8.940 (1.021)			132625	10.0000	11.6586
93 Diethyl phthalate	149	9.090	9.090 (1.038)			92904	10.0000	11.0379
95 4-Chlorophenyl phenyl ether	204	9.214	9.214 (1.052)			52828	10.0000	11.5002
96 Fluorene	166	9.240	9.240 (1.055)			112307	10.0000	11.5622



Compounds	QUANT SIG						AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE		CAL-AMT (ug/ml)	ON-COL (ug/ml)
-----	----	--	-----	-----	-----		-----	-----
97 4-Nitroaniline	138	9.273	9.273	(1.059)	16317		10.0000	8.02589(a)
99 4,6-Dinitro-2-methylphenol	198	9.278	9.278	(1.059)	8761		10.0000	5.38671(a)
101 N-nitrosodiphenylamine	169	9.321	9.321	(1.064)	68607		10.0000	10.7215
102 Azobenzene	77	9.353	9.353	(1.068)	90969		10.0000	10.9914
108 4-Bromophenyl phenyl ether	248	9.632	9.632	(0.961)	27236		10.0000	10.3996
110 Hexachlorobenzene	284	9.697	9.697	(0.968)	25719		10.0000	10.6907
113 Pentachlorophenol	266	9.863	9.863	(0.984)	6708		10.0000	5.17860(a)
118 Phenanthrene	178	10.040	10.040	(1.002)	155367		10.0000	11.5443
122 Anthracene	178	10.083	10.083	(1.006)	155598		10.0000	11.5024
123 Carbazole	167	10.217	10.217	(1.020)	113114		10.0000	10.2927
125 Di-n-butyl phthalate	149	10.400	10.400	(1.038)	126090		10.0000	9.84538(a)
130 Fluoranthene	202	10.990	10.990	(1.097)	145966		10.0000	11.2365
131 Benzidine	184	11.092	11.092	(0.911)	28450		10.0000	9.66541(a)
132 Pyrene	202	11.184	11.184	(0.919)	150160		10.0000	10.8290
137 Butyl benzyl phthalate	149	11.608	11.608	(0.954)	42515		10.0000	8.69778(a)
140 3,3'-Dichlorobenzidine	252	12.118	12.118	(0.996)	32170		10.0000	8.63702(a)
141 Benzo(a)anthracene	228	12.155	12.155	(0.999)	117704		10.0000	10.3713(H)
144 Chrysene	228	12.193	12.193	(1.002)	118003		10.0000	10.9777
143 Bis(2-ethylhexyl) phthalate	149	12.021	12.021	(0.988)	57227		10.0000	9.06019(a)
146 Di-n-octyl phthalate	149	12.558	12.558	(1.032)	89406		10.0000	8.70808(aH)
147 Benzo(b)fluoranthene	252	13.148	13.148	(0.967)	94151		10.0000	9.53347(aH)
148 Benzo(k)fluoranthene	252	13.175	13.175	(0.969)	108136		10.0000	10.1731
150 Benzo(a)pyrene	252	13.529	13.529	(0.995)	87271		10.0000	9.74523(a)
155 Indeno(1,2,3-cd)pyrene	276	15.091	15.091	(1.110)	81073		10.0000	9.33970(a)
156 Dibenz(a,h)anthracene	278	15.091	15.091	(1.110)	73773		10.0000	9.38405(a)
157 Benzo(g,h,i)perylene	276	15.564	15.564	(1.144)	68812		10.0000	9.23458(a)
168 Methyl Styrene	118	5.537	5.537	(0.952)	50483		10.0000	10.6841
202 Alachlor	188	10.260	10.260	(1.024)	15110		10.0000	9.44292(a)
204 Atrazine	200	9.740	9.740	(0.972)	3490		10.0000	15.5807(Q)
205 Caprolactam	55	7.469	7.469	(1.060)	12246		10.0000	7.91812(a)
207 2,3-Dichlorobenzeneamine	161	8.038	8.038	(0.918)	50889		10.0000	10.9912
206 Decane	43	5.601	5.601	(0.963)	45452		10.0000	11.1948
213 n-Dodecane	43	6.954	6.954	(0.794)	43210		10.0000	10.5818
210 Tetradecane	43	8.113	8.113	(0.926)	42925		10.0000	10.7823
209 Hexadecane	57	9.058	9.058	(1.034)	55355		10.0000	10.8378
208 n-Octadecane	85	9.815	9.815	(0.980)	25048		10.0000	10.1380
211 n-Eicosane	43	10.459	10.459	(1.194)	36447		10.0000	11.2779
212 n-docosane	43	11.049	11.049	(1.262)	26677		10.0000	10.6117

# QC Flag Legend

- a - Target compound detected but, quantitated amount  
Below Limit Of Quantitation(BLOQ).
- Q - Qualifier signal failed the ratio test.
- H - Operator selected an alternate compound hit.

STL-Denver

INTERNAL STANDARD COMPOUNDS  
AREA AND RT SUMMARY

Instrument ID: Y.i  
Lab File ID: y1721.d  
Lab Smp Id: HSL 0010  
Analysis Type: SV  
Quant Type: ISTD  
Operator: todear  
Method File: /chem/Y.i/052704.b/8270C.m  
Misc Info:

Calibration Date: 27-MAY-2004  
Calibration Time: 19:53  
Client Smp ID: HSL\_0010  
Level: LOW  
Sample Type: WATER

Test Mode: Use Last Continuing Calibrator.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
22 1,4-Dichlorobenze	162127	81064	324254	141285	-12.86
49 Naphthalene-d8	630966	315483	1261932	559442	-11.34
83 Acenaphthene-d10	368193	184096	736386	328246	-10.85
117 Phenanthrene-d10	591673	295836	1183346	576666	-2.54
142 Chrysene-d12	385856	192928	771712	418790	8.54
151 Perylene-d12	295607	147804	591214	341614	15.56

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
22 1,4-Dichlorobenze	5.82	5.32	6.32	5.82	-0.03
49 Naphthalene-d8	7.05	6.55	7.55	7.05	-0.03
83 Acenaphthene-d10	8.76	8.26	9.26	8.76	-0.02
117 Phenanthrene-d10	10.02	9.52	10.52	10.02	-0.02
142 Chrysene-d12	12.16	11.66	12.66	12.17	0.07
151 Perylene-d12	13.59	13.09	14.09	13.60	0.07

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/Y.i/052704.b/y1721.d

Date : 27-MAY-2004 18:32

Client ID: HSL\_0010

Sample Info: HSL\_0010,BNA1509,F:051104,E:053104

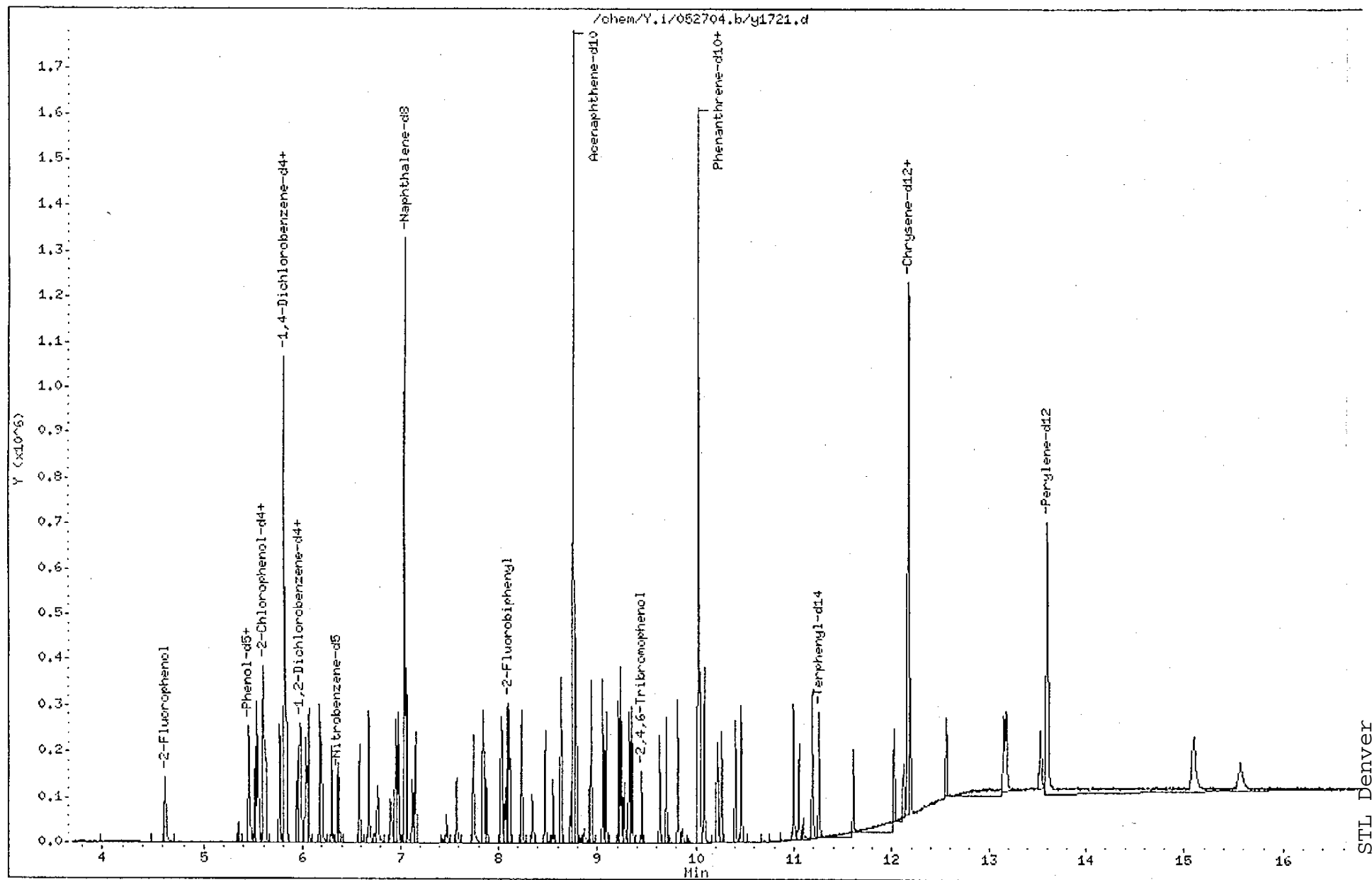
Volume Injected (uL): 0.5

Column phase: Rtx-5ms 30m 0.5um

Instrument: Y.i

Operator: todear

Column diameter: 0.25



mlw  
05-28-04

STL-Denver

BNA ANALYSIS QUANTITATION REPORT

Data file : /chem/Y.i/052704.b/y1722.d  
Lab Smp Id: HSL 0020 Client Smp ID: HSL\_0020  
Inj Date : 27-MAY-2004 18:59  
Operator : todear Inst ID: Y.i  
Smp Info : HSL\_0020,BNA1509,P:051104,E:053104  
Misc Info :  
Comment : SOP#CORP-MS-0001DEN, revision1.1  
Method : /chem/Y.i/052704.b/8270C.m  
Meth Date : 28-May-2004 02:55 kiddd Quant Type: ISTD  
Cal Date : 13-MAY-2004 19:15 Cal File: y1406.d  
Als bottle: 7 Calibration Sample, Level: 3  
Dil Factor: 1.00000 Compound Sublist: 1-HSL.sub  
Integrator: HP RTE  
Target Version: 3.50  
Processing Host: chemsv03

Concentration Formula: Amt \* DF \* Vf/Vs \* CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vf	1000.00000	final volume at end of extraction (uL)
Vs	1000.00000	volume of sample extracted (mL)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG			RESPONSE	AMOUNTS	
	MASS	RT	EXP RT REL RT		CAL-AMT (ug/ml)	ON-COL (ug/ml)
* 22 1,4-Dichlorobenzene-d4	152	5.816	5.816 (1.000)	161533	40.0000	
* 49 Naphthalene-d8	136	7.045	7.045 (1.000)	631432	40.0000	
* 83 Acenaphthene-d10	164	8.757	8.757 (1.000)	374404	40.0000	
* 117 Phenanthrene-d10	188	10.024	10.024 (1.000)	638727	40.0000	
* 142 Chrysene-d12	240	12.171	12.171 (1.000)	470899	40.0000	
* 151 Perylene-d12	264	13.599	13.599 (1.000)	379953	40.0000	
\$ 36 Nitrobenzene-d5	82	6.347	6.347 (1.091)	111875	20.0000	21.1517
\$ 70 2-Fluorobiphenyl	172	8.097	8.097 (0.925)	246350	20.0000	22.9150
\$ 133 Terphenyl-d14	244	11.253	11.253 (0.925)	222578	20.0000	21.8625
\$ 10 2-Fluorophenol	112	4.619	4.619 (0.794)	154301	30.0000	31.7863
\$ 14 Phenol-d5	99	5.451	5.451 (0.937)	192676	30.0000	32.0680
\$ 103 2,4,6-Tribromophenol	330	9.450	9.450 (0.943)	37143	30.0000	31.4410
\$ 163 1,2-Dichlorobenzene-d4	152	5.966	5.966 (1.026)	74631	20.0000	22.3352
\$ 162 2-Chlorophenol-d4	132	5.606	5.606 (0.964)	176345	30.0000	33.5424
\$ Pyridine	79	3.406	3.406 (0.586)	98074	20.0000	21.4599

Compounds	QUANT SIG					AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)
4 N-Nitrosodimethylamine	74	3.346	3.346	(0.575)	59091	20.0000	20.2645
16 Aniline	93	5.515	5.515	(0.948)	143362	20.0000	19.7513
15 Phenol	94	5.461	5.461	(0.939)	133215	20.0000	21.0691
18 Bis(2-chloroethyl) ether	93	5.553	5.553	(0.955)	104792	20.0000	21.0922
20 2-Chlorophenol	128	5.622	5.622	(0.967)	114721	20.0000	21.5686
21 1,3-Dichlorobenzene	146	5.762	5.762	(0.991)	126629	20.0000	21.8323
23 1,4-Dichlorobenzene	146	5.832	5.832	(1.003)	131178	20.0000	22.1260
24 Benzyl alcohol	108	5.939	5.939	(1.021)	68668	20.0000	20.7323
25 1,2-Dichlorobenzene	146	5.982	5.982	(1.029)	121568	20.0000	22.0343
26 2-Methylphenol	108	6.025	6.025	(1.036)	100225	20.0000	21.8210
27 1H-Indene	116	6.063	6.063	(1.042)	194656	20.0000	21.9307
28 2,2'-oxybis(1-chloropropane)	45	6.041	6.041	(1.039)	130110	20.0000	21.4861
29 4-Methylphenol	108	6.165	6.165	(1.060)	103728	20.0000	22.2028
30 N nitrosodi-n-propylamine	70	6.175	6.175	(1.062)	72918	20.0000	21.1766
32 Acetophenone	105	6.191	6.191	(1.065)	145687	20.0000	21.8278
33 Hexachloroethane	117	6.299	6.299	(1.083)	46915	20.0000	21.3601
37 Nitrobenzene	77	6.369	6.369	(1.095)	114828	20.0000	21.7529
40 Isophorone	82	6.583	6.583	(0.934)	187845	20.0000	20.7602
41 2-Nitrophenol	139	6.675	6.675	(0.947)	58742	20.0000	21.0158
42 2,4-Dimethylphenol	107	6.680	6.680	(0.948)	103873	20.0000	21.5562
43 Bis(2-chloroethoxy)methane	93	6.771	6.771	(0.961)	119494	20.0000	21.6510
45 Benzoic acid	122	6.755	6.755	(0.959)	58602	20.0000	17.3129
46 2,4-Dichlorophenol	162	6.900	6.900	(0.979)	92754	20.0000	22.0026
47 1,2,4-Trichlorobenzene	180	6.980	6.980	(0.991)	106169	20.0000	22.3757
50 Naphthalene	128	7.066	7.066	(1.003)	330244	20.0000	22.0957
51 4-Chloroaniline	127	7.120	7.120	(1.011)	136103	20.0000	21.6070
52 Hexachlorobutadiene	225	7.158	7.158	(1.016)	60135	20.0000	22.6791
59 4-Chloro-3-methylphenol	107	7.571	7.571	(1.075)	93282	20.0000	21.4923
62 2-Methylnaphthalene	142	7.743	7.743	(1.099)	225437	20.0000	22.7389
64 1-Methylnaphthalene	142	7.845	7.845	(1.114)	228439	20.0000	22.9234
63 Hexachlorocyclopentadiene	237	7.882	7.882	(0.900)	59110	20.0000	19.9930
67 2,4,6-Trichlorophenol	196	8.022	8.022	(0.916)	61708	20.0000	21.7104
68 2,4,5-Trichlorophenol	196	8.065	8.065	(0.921)	68700	20.0000	20.9019
71 2-Chloronaphthalene	162	8.237	8.237	(0.941)	211143	20.0000	22.7371
74 2-Nitroaniline	65	8.344	8.344	(0.953)	55351	20.0000	20.6533
76 Dimethyl phthalate	163	8.473	8.473	(0.968)	241565	20.0000	22.4369
79 2,6-Dinitrotoluene	165	8.553	8.553	(0.977)	49085	20.0000	21.0698
81 Acenaphthylene	152	8.634	8.634	(0.986)	338831	20.0000	22.6533
82 3-Nitroaniline	138	8.725	8.725	(0.996)	55032	20.0000	20.6789
84 Acenaphthene	153	8.784	8.784	(1.003)	223020	20.0000	22.7929
85 2,4-Dinitrophenol	184	8.816	8.816	(1.007)	21252	20.0000	20.3996
86 4-Nitrophenol	109	8.859	8.859	(1.012)	26171	20.0000	18.9384
87 2,4-Dinitrotoluene	165	8.924	8.924	(1.019)	65169	20.0000	22.2071
88 Dibenzofuran	168	8.940	8.940	(1.021)	302617	20.0000	23.3223
93 Diethyl phthalate	149	9.090	9.090	(1.038)	219517	20.0000	22.8655
95 4-Chlorophenyl phenyl ether	204	9.213	9.213	(1.052)	120061	20.0000	22.9140
96 Fluorene	166	9.240	9.240	(1.055)	255502	20.0000	23.0614

Compounds	QUANT SIG					AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)
-----	----	==	-----	-----	-----	-----	-----
97 4-Nitroaniline	138	9.272	9.272	(1.059)	48555	20.0000	20.9385
99 4,6-Dinitro-2-methylphenol	198	9.272	9.272	(1.059)	33946	20.0000	18.2986
101 N-nitrosodiphenylamine	169	9.321	9.321	(1.064)	166941	20.0000	22.8722
102 Azobenzene	77	9.353	9.353	(1.068)	209915	20.0000	22.2362
108 4-Bromophenyl phenyl ether	248	9.632	9.632	(0.961)	63948	20.0000	22.0448
110 Hexachlorobenzene	284	9.697	9.697	(0.967)	58509	20.0000	21.9576
113 Pentachlorophenol	266	9.858	9.858	(0.983)	21029	20.0000	14.6571
118 Phenanthrene	178	10.040	10.040	(1.002)	344573	20.0000	23.1152
122 Anthracene	178	10.083	10.083	(1.006)	354853	20.0000	23.6832
123 Carbazole	167	10.212	10.212	(1.019)	277321	20.0000	22.7826
125 Di-n-butyl phthalate	149	10.400	10.400	(1.037)	320296	20.0000	22.5794
130 Fluoranthene	202	10.990	10.990	(1.096)	347638	20.0000	24.1611
131 Benzidine	184	11.092	11.092	(0.911)	51137	20.0000	21.1075
132 Pyrene	202	11.183	11.183	(0.919)	348707	20.0000	22.3647
137 Butyl benzyl phthalate	149	11.607	11.607	(0.954)	115778	20.0000	21.0650
140 3,3'-Dichlorobenzidine	252	12.117	12.117	(0.996)	84026	20.0000	20.0630
141 Benzo(a)anthracene	228	12.160	12.160	(0.999)	279540	20.0000	21.9055 (H)
144 Chrysene	228	12.193	12.193	(1.002)	270172	20.0000	22.3526
143 Bis(2-ethylhexyl) phthalate	149	12.026	12.026	(0.988)	151869	20.0000	21.3833
146 Di-n-octyl phthalate	149	12.558	12.558	(1.032)	237759	20.0000	20.5950 (H)
147 Benzo(b)fluoranthene	252	13.153	13.153	(0.967)	220466	20.0000	20.0712 (H)
148 Benzo(k)fluoranthene	252	13.180	13.180	(0.969)	249185	20.0000	21.0771
150 Benzo(a)pyrene	252	13.529	13.529	(0.995)	204545	20.0000	20.5360
155 Indeno(1,2,3-cd)pyrene	276	15.080	15.080	(1.109)	192235	20.0000	19.9111
156 Dibenz(a,h)anthracene	278	15.080	15.080	(1.109)	177790	20.0000	20.3332
157 Benzo(g,h,i)perylene	276	15.558	15.558	(1.144)	161838	20.0000	19.5272
168 Methyl Styrene	118	5.537	5.537	(0.952)	117578	20.0000	21.7648
202 Alachlor	188	10.260	10.260	(1.024)	38919	20.0000	21.9590
204 Atrazine	200	9.739	9.739	(0.972)	9603	20.0000	38.7060
205 Caprolactam	55	7.474	7.474	(1.061)	35376	20.0000	20.2659
207 2,3-Dichlorobenzeneamine	161	8.033	8.033	(0.917)	116425	20.0000	22.0458
206 Decane	43	5.601	5.601	(0.963)	102957	20.0000	22.1795
213 n-Dodecane	43	6.954	6.954	(0.794)	100556	20.0000	21.5896
210 Tetradecane	43	8.113	8.113	(0.926)	100123	20.0000	22.0493
209 Hexadecane	57	9.058	9.058	(1.034)	130151	20.0000	22.3404
208 n-Octadecane	85	9.815	9.815	(0.979)	58525	20.0000	21.3860
211 n-Eicosane	43	10.459	10.459	(1.194)	86362	20.0000	23.4288
212 n-docosane	43	11.049	11.049	(1.262)	66352	20.0000	23.1399

# QC Flag Legend

H - Operator selected an alternate compound hit.

STL-Denver

INTERNAL STANDARD COMPOUNDS  
AREA AND RT SUMMARY

Instrument ID: Y.i	Calibration Date: 27-MAY-2004
Lab File ID: y1722.d	Calibration Time: 19:53
Lab Smp Id: HSL 0020	Client Smp ID: HSL_0020
Analysis Type: SV	Level: LOW
Quant Type: ISTD	Sample Type: WATER
Operator: todear	
Method File: /chem/Y.i/052704.b/8270C.m	
Misc Info:	

Test Mode:  
Use Last Continuing Calibrator.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
22 1,4-Dichlorobenze	162127	81064	324254	161533	-0.37
49 Naphthalene-d8	630966	315483	1261932	631432	0.07
83 Acenaphthene-d10	368193	184096	736386	374404	1.69
117 Phenanthrene-d10	591673	295836	1183346	638727	7.95
142 Chrysene-d12	385856	192928	771712	470899	22.04
151 Perylene-d12	295607	147804	591214	379953	28.53

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
22 1,4-Dichlorobenze	5.82	5.32	6.32	5.82	-0.03
49 Naphthalene-d8	7.05	6.55	7.55	7.04	-0.03
83 Acenaphthene-d10	8.76	8.26	9.26	8.76	-0.02
117 Phenanthrene-d10	10.02	9.52	10.52	10.02	0.03
142 Chrysene-d12	12.16	11.66	12.66	12.17	0.07
151 Perylene-d12	13.59	13.09	14.09	13.60	0.06

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/Y.i/052704.b/y1722.d

Page 5

Date : 27-MAY-2004 18:59

Client ID: HSL\_0020

Instrument: Y.i

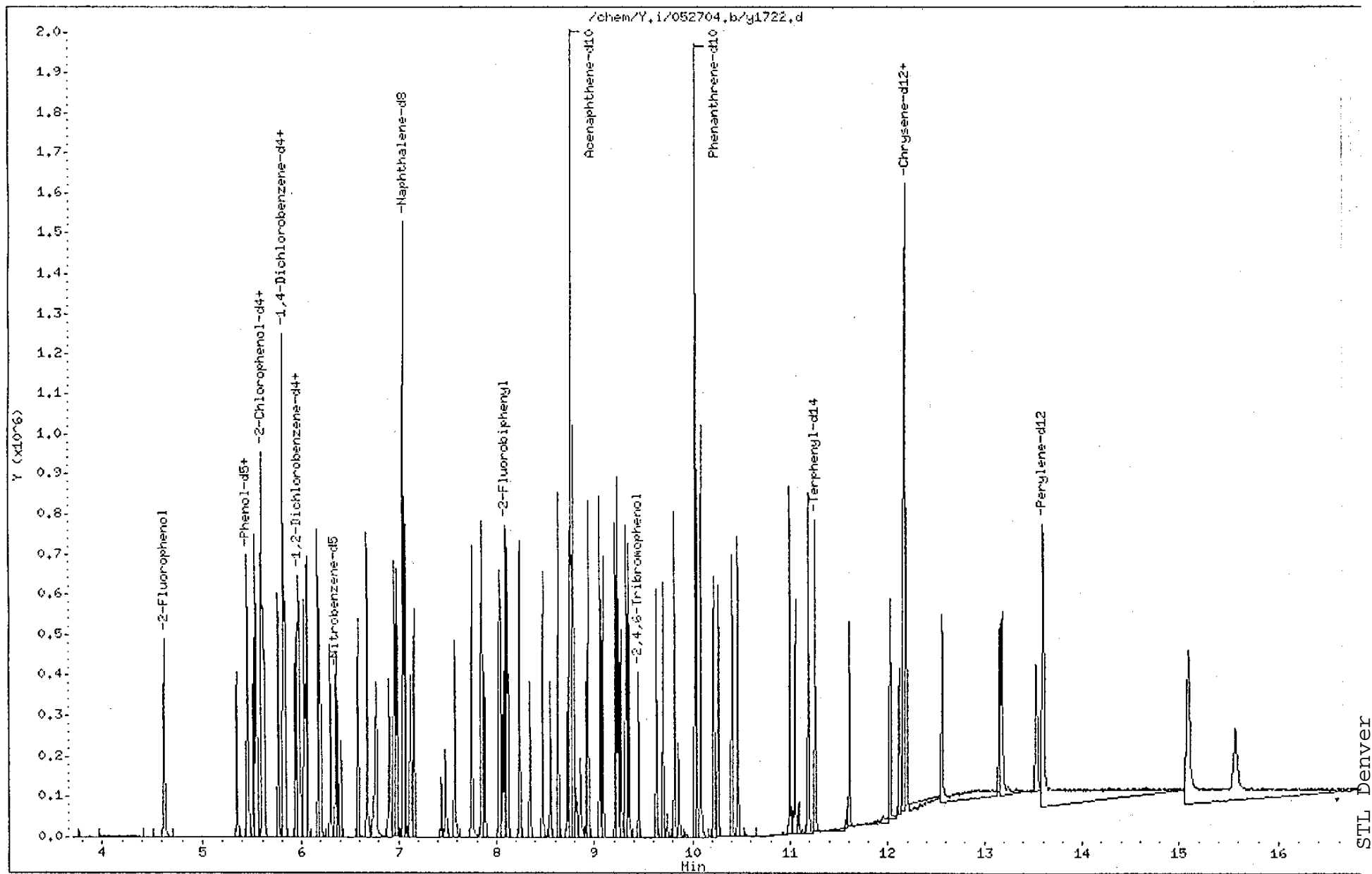
Sample Info: HSL\_0020,ENA1509,P:051104,E:053104

Volume Injected (uL): 0.5

Operator: todear

Column phase: Rtx-Sms 30m 0.5um

Column diameter: 0.25





MLC  
05-28-04

STL-Denver

BNA ANALYSIS QUANTITATION REPORT

Data file : /chem/Y.i/052704.b/y1723.d  
Lab Smp Id: HSL 0050 Client Smp ID: HSL\_0050  
Inj Date : 27-MAY-2004 19:26  
Operator : todear Inst ID: Y.i  
Smp Info : HSL\_0050,BNA1509,P:051104,E:053104  
Misc Info :  
Comment : SOP#CORP-MS-0001DEN, revision1.1  
Method : /chem/Y.i/052704.b/8270C.m  
Meth Date : 28-May-2004 02:55 kiddd Quant Type: ISTD  
Cal Date : 13-MAY-2004 19:41 Cal File: y1407.d  
Als bottle: 8 Calibration Sample, Level: 4  
Dil Factor: 1.00000  
Integrator: HP RTE Compound Sublist: 1-HSL.sub  
Target Version: 3.50  
Processing Host: chemsv03

Concentration Formula: Amt \* DF \* Vf/Vs \* CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vf	1000.00000	final volume at end of extraction (uL)
Vs	1000.00000	volume of sample extracted (mL)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG				AMOUNTS		
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)
*****	----	==	*****	-----	-----	-----	-----
* 22 1,4-Dichlorobenzene-d4	152	5.818	5.818	(1.000)	151922	40.0000	
* 49 Naphthalene-d8	136	7.047	7.047	(1.000)	580948	40.0000	
* 83 Acenaphthene-d10	164	8.759	8.759	(1.000)	337767	40.0000	
* 117 Phenanthrene-d10	188	10.020	10.020	(1.000)	556740	40.0000	
* 142 Chrysene-d12	240	12.168	12.168	(1.000)	391645	40.0000	
* 151 Perylene-d12	264	13.590	13.590	(1.000)	306184	40.0000	
\$ 36 Nitrobenzene-d5	82	6.349	6.349	(1.091)	251012	50.0000	50.4600
\$ 70 2-Fluorobiphenyl	172	8.093	8.093	(0.924)	515901	50.0000	53.1932
\$ 133 Terphenyl-d14	244	11.250	11.250	(0.925)	430690	50.0000	50.8649
\$ 10 2-Fluorophenol	112	4.621	4.621	(0.794)	347089	75.0000	76.0243
\$ 14 Phenol-d5	99	5.453	5.453	(0.937)	423797	75.0000	74.9968
\$ 103 2,4,6-Tribromophenol	330	9.451	9.451	(0.943)	80543	75.0000	78.2186
\$ 163 1,2-Dichlorobenzene-d4	152	5.968	5.968	(1.026)	161325	50.0000	51.3350
\$ 162 2-Chlorophenol-d4	132	5.608	5.608	(0.964)	381451	75.0000	77.1453
5 Pyridine	79	3.402	3.402	(0.585)	222524	50.0000	51.7715

Compounds	QUANT SIG					AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)
=====	=====	==	=====	=====	=====	=====	=====
4 N-Nitrosodimethylamine	74	3.348	3.348	(0.576)	132299	50.0000	48.2405
16 Aniline	93	5.517	5.517	(0.948)	298471	50.0000	49.5504
15 Phenol	94	5.469	5.469	(0.940)	297831	50.0000	50.0845
18 Bis(2-chloroethyl) ether	93	5.555	5.555	(0.955)	232233	50.0000	49.7002
20 2-Chlorophenol	128	5.624	5.624	(0.967)	253816	50.0000	50.7387
21 1,3-Dichlorobenzene	146	5.764	5.764	(0.991)	276337	50.0000	50.6578
23 1,4-Dichlorobenzene	146	5.834	5.834	(1.003)	283164	50.0000	50.7832
24 Benzyl alcohol	108	5.941	5.941	(1.021)	156559	50.0000	50.2588
25 1,2-Dichlorobenzene	146	5.979	5.979	(1.028)	265662	50.0000	51.1977
26 2-Methylphenol	108	6.027	6.027	(1.036)	221498	50.0000	51.2753
27 1H-Indene	116	6.059	6.059	(1.042)	425423	50.0000	50.9620
28 2,2'-oxybis(1-chloropropane)	45	6.043	6.043	(1.039)	287914	50.0000	50.5533(Q)
29 4-Methylphenol	108	6.172	6.172	(1.061)	229758	50.0000	52.2906
30 N-nitrosodi-n-propylamine	70	6.177	6.177	(1.062)	167125	50.0000	51.6064
32 Acetophenone	105	6.193	6.193	(1.065)	316023	50.0000	50.3440
33 Hexachloroethane	117	6.301	6.301	(1.083)	104984	50.0000	50.8224
37 Nitrobenzene	77	6.370	6.370	(1.095)	249388	50.0000	50.2325
40 Isophorone	82	6.585	6.585	(0.934)	430114	50.0000	51.6660
41 2-Nitrophenol	139	6.671	6.671	(0.947)	134654	50.0000	52.3607
42 2,4-Dimethylphenol	107	6.682	6.682	(0.948)	230004	50.0000	51.8794
43 Bis(2-chloroethoxy)methane	93	6.768	6.768	(0.960)	258138	50.0000	50.8361
45 Benzoic acid	122	6.778	6.778	(0.962)	149280	50.0000	47.9346
46 2,4-Dichlorophenol	162	6.902	6.902	(0.979)	203101	50.0000	52.3652
47 1,2,4-Trichlorobenzene	180	6.982	6.982	(0.991)	226557	50.0000	51.8975
50 Naphthalene	128	7.068	7.068	(1.003)	716369	50.0000	52.0954
51 4-Chloroaniline	127	7.122	7.122	(1.011)	303916	50.0000	52.4408
52 Hexachlorobutadiene	225	7.159	7.159	(1.016)	128073	50.0000	52.4982
59 4-Chloro-3-methylphenol	107	7.578	7.578	(1.075)	206637	50.0000	51.7466
62 2-Methylnaphthalene	142	7.745	7.745	(1.099)	477844	50.0000	52.3865
64 1-Methylnaphthalene	142	7.847	7.847	(1.113)	480462	50.0000	52.4032
63 Hexachlorocyclopentadiene	237	7.884	7.884	(0.900)	142247	50.0000	53.3315
67 2,4,6-Trichlorophenol	196	8.024	8.024	(0.916)	135115	50.0000	52.6929
68 2,4,5-Trichlorophenol	196	8.067	8.067	(0.921)	152532	50.0000	51.4415
71 2-Chloronaphthalene	162	8.233	8.233	(0.940)	440494	50.0000	52.5802
74 2-Nitroaniline	65	8.340	8.340	(0.952)	126179	50.0000	52.1885
76 Dimethyl phthalate	163	8.475	8.475	(0.968)	507846	50.0000	52.2858
79 2,6-Dinitrotoluene	165	8.555	8.555	(0.977)	110145	50.0000	52.4081
81 Acenaphthylene	152	8.636	8.636	(0.986)	717612	50.0000	53.1815
82 3-Nitroaniline	138	8.727	8.727	(0.996)	121490	50.0000	50.6029
84 Acenaphthene	153	8.786	8.786	(1.003)	468293	50.0000	53.0514
85 2,4-Dinitrophenol	184	8.813	8.813	(1.006)	62369	50.0000	47.3837
86 4-Nitrophenol	109	8.861	8.861	(1.012)	62219	50.0000	49.9079
87 2,4-Dinitrotoluene	165	8.920	8.920	(1.018)	139017	50.0000	52.5101
88 Dibenzofuran	168	8.942	8.942	(1.021)	628925	50.0000	53.7280
93 Diethyl phthalate	149	9.092	9.092	(1.038)	459615	50.0000	53.0676
95 4-Chlorophenyl phenyl ether	204	9.215	9.215	(1.052)	253575	50.0000	53.6450
96 Fluorene	166	9.237	9.237	(1.055)	537426	50.0000	53.7693

Compounds	QUANT SIG					AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)
=====	=====	==	=====	=====	=====	=====	=====
97 4-Nitroaniline	138	9.274	9.274	(1.059)	110033	50.0000	52.5966
99 4,6-Dinitro-2-methylphenol	198	9.274	9.274	(1.059)	84590	50.0000	50.5442
101 N-nitrosodiphenylamine	169	9.323	9.323	(1.064)	340202	50.0000	51.6661
102 Azobenzene	77	9.355	9.355	(1.068)	452154	50.0000	53.0917
108 4-Bromophenyl phenyl ether	248	9.629	9.629	(0.961)	131934	50.0000	52.1795
110 Hexachlorobenzene	284	9.698	9.698	(0.968)	119452	50.0000	51.4302
113 Pentachlorophenol	266	9.859	9.859	(0.984)	58454	50.0000	46.7418
118 Phenanthrene	178	10.042	10.042	(1.002)	691945	50.0000	53.2538
122 Anthracene	178	10.085	10.085	(1.006)	691159	50.0000	52.9216
123 Carbazole	167	10.208	10.208	(1.019)	557301	50.0000	52.5260
125 Di-n-butyl phthalate	149	10.402	10.402	(1.038)	660018	50.0000	53.3801
130 Fluoranthene	202	10.992	10.992	(1.097)	663171	50.0000	52.8784
131 Benzidine	184	11.083	11.083	(0.911)	85427	50.0000	51.9297
132 Pyrene	202	11.185	11.185	(0.919)	669978	50.0000	51.6651
137 Butyl benzyl phthalate	149	11.604	11.604	(0.954)	233973	50.0000	51.1842
140 3,3'-Dichlorobenzidine	252	12.109	12.109	(0.995)	177828	50.0000	51.0525
141 Benzo(a)anthracene	228	12.151	12.151	(0.999)	550061	50.0000	51.8270 (H)
144 Chrysene	228	12.189	12.189	(1.002)	522545	50.0000	51.9813
143 Bis(2-ethylhexyl) phthalate	149	12.017	12.017	(0.988)	306815	50.0000	51.9417
146 Di-n-octyl phthalate	149	12.549	12.549	(1.031)	490625	50.0000	51.0986 (H)
147 Benzo(b)fluoranthene	252	13.145	13.145	(0.967)	437160	50.0000	49.3878 (H)
148 Benzo(k)fluoranthene	252	13.171	13.171	(0.969)	495143	50.0000	51.9718
150 Benzo(a)pyrene	252	13.526	13.526	(0.995)	404679	50.0000	50.4180
155 Indeno(1,2,3-cd)pyrene	276	15.077	15.077	(1.109)	380290	50.0000	48.8792
156 Dibenz(a,h)anthracene	278	15.072	15.072	(1.109)	346497	50.0000	49.1751
157 Benzo(g,h,i)perylene	276	15.549	15.549	(1.144)	321619	50.0000	48.1557
168 Methyl Styrene	118	5.538	5.538	(0.952)	261402	50.0000	51.4492
202 Alachlor	188	10.262	10.262	(1.024)	83011	50.0000	53.7340
204 Atrazine	200	9.741	9.741	(0.972)	16509	50.0000	76.3405
205 Caprolactam	55	7.487	7.487	(1.062)	85081	50.0000	52.9759
207 2,3-Dichlorobenzeneamine	161	8.034	8.034	(0.917)	251417	50.0000	52.7712
206 Decane	43	5.597	5.597	(0.962)	224289	50.0000	51.3742
213 n-Dodecane	43	6.956	6.956	(0.794)	219717	50.0000	52.2905
210 Tetradecane	43	8.115	8.115	(0.926)	216583	50.0000	52.8698
209 Hexadecane	57	9.060	9.060	(1.034)	277643	50.0000	52.8267
208 n-Octadecane	85	9.811	9.811	(0.979)	127771	50.0000	53.5653
211 n-Eicosane	43	10.461	10.461	(1.194)	175760	50.0000	52.8531
212 n-docosane	43	11.046	11.046	(1.261)	135304	50.0000	52.3048

QC Flag Legend

Q - Qualifier signal failed the ratio test.  
H - Operator selected an alternate compound hit.

STL-Denver

INTERNAL STANDARD COMPOUNDS  
 AREA AND RT SUMMARY

Instrument ID: Y.i  
 Lab File ID: y1723.d  
 Lab Smp Id: HSL 0050  
 Analysis Type: SV  
 Quant Type: ISTD  
 Operator: todear  
 Method File: /chem/Y.i/052704.b/8270C.m  
 Misc Info:

Calibration Date: 27-MAY-2004  
 Calibration Time: 19:53  
 Client Smp ID: HSL\_0050  
 Level: LOW  
 Sample Type: WATER

Test Mode:  
 Use Last Continuing Calibrator.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
22 1,4-Dichlorobenze	162127	81064	324254	151922	-6.29
49 Naphthalene-d8	630966	315483	1261932	580948	-7.93
83 Acenaphthene-d10	368193	184096	736386	337767	-8.26
117 Phenanthrene-d10	591673	295836	1183346	556740	-5.90
142 Chrysene-d12	385856	192928	771712	391645	1.50
151 Perylene-d12	295607	147804	591214	306184	3.58

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
22 1,4-Dichlorobenze	5.82	5.32	6.32	5.82	0.00
49 Naphthalene-d8	7.05	6.55	7.55	7.05	0.00
83 Acenaphthene-d10	8.76	8.26	9.26	8.76	0.00
117 Phenanthrene-d10	10.02	9.52	10.52	10.02	0.00
142 Chrysene-d12	12.16	11.66	12.66	12.17	0.04
151 Perylene-d12	13.59	13.09	14.09	13.59	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/Y.i/052704.b/y1723.d

Date : 27-MAY-2004 19:26

Client ID: HSL\_0050

Sample Info: HSL\_0050,BNA1509,P:051104,E:053104

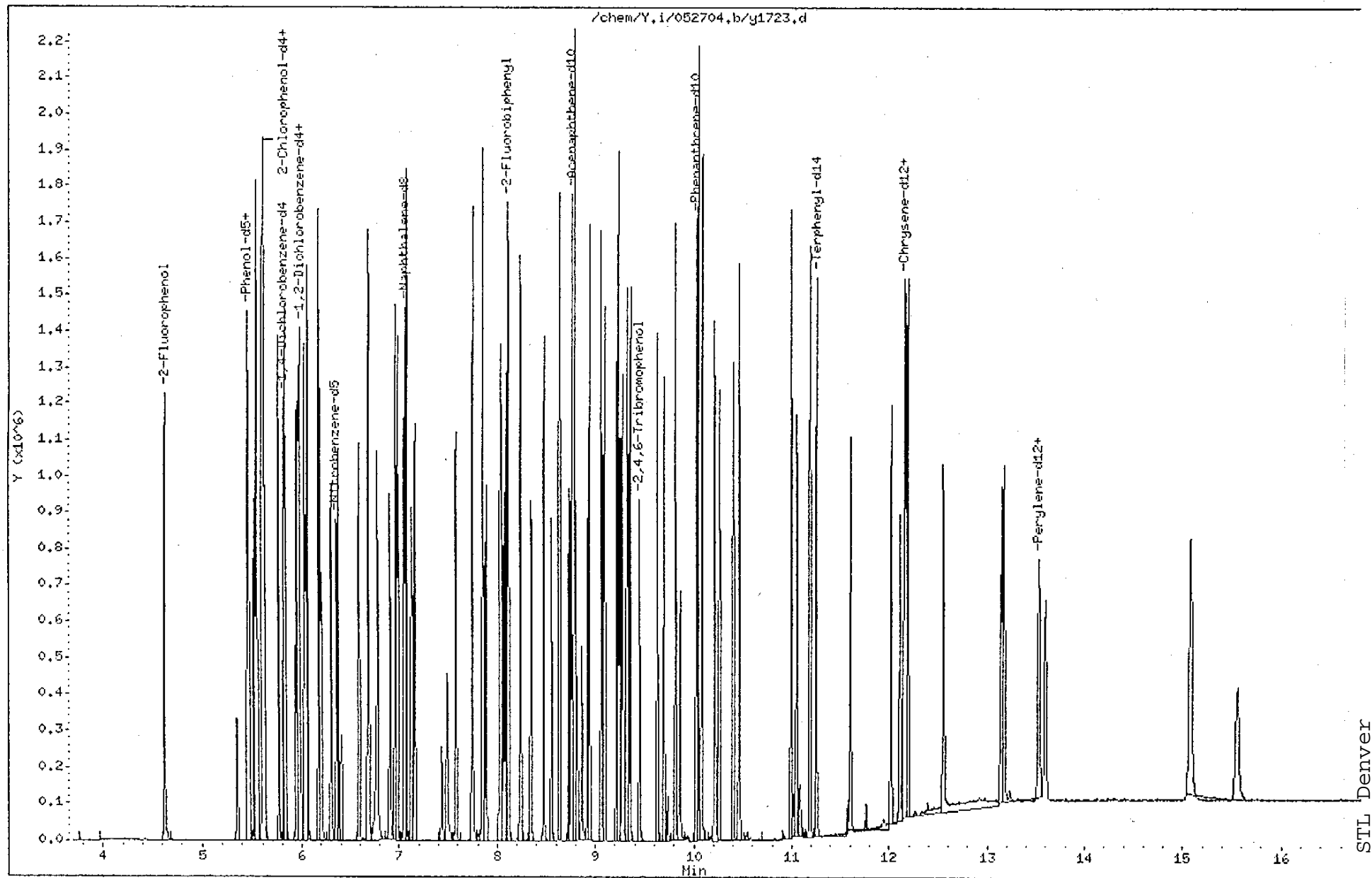
Volume Injected (uL): 0.5

Column phase: Rtx-5ms 30m 0.5um

Instrument: Y.i

Operator: todear

Column diameter: 0.25



MLK  
05-28-04

STL-Denver

BNA ANALYSIS QUANTITATION REPORT

Data file : /chem/Y.i/052704.b/y1724.d  
Lab Smp Id: HSL 0080 Client Smp ID: HSL\_0080  
Inj Date : 27-MAY-2004 19:53  
Operator : todear Inst ID: Y.i  
Smp Info : HSL\_0080,BNA1509,P:051104,E:053104  
Misc Info :  
Comment : SOP#CORP-MS-0001DEN, revision1.1  
Method : /chem/Y.i/052704.b/8270C.m  
Meth Date : 28-May-2004 02:56 kiddd Quant Type: ISTD  
Cal Date : 13-MAY-2004 18:21 Cal File: y1404.d  
Als bottle: 9 Calibration Sample, Level: 5  
Dil Factor: 1.00000  
Integrator: HP RTE Compound Sublist: 1-HSL.sub  
Target Version: 3.50  
Processing Host: chemsv03

Concentration Formula: Amt \* DF \* Vf/Vs \* CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vf	1000.00000	final volume at end of extraction (uL)
Vs	1000.00000	volume of sample extracted (mL)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG				AMOUNTS		
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)
*****	----	==	-----	-----	-----	-----	-----
* 22 1,4-Dichlorobenzene-d4	152	5.818	5.818	(1.000)	162127	40.0000	
* 49 Naphthalene-d8	136	7.047	7.047	(1.000)	630966	40.0000	
* 83 Acenaphthene-d10	164	8.759	8.759	(1.000)	368193	40.0000	
* 117 Phenanthrene-d10	188	10.021	10.021	(1.000)	591673	40.0000	
* 142 Chrysene-d12	240	12.162	12.162	(1.000)	385856	40.0000	
* 151 Perylene-d12	264	13.590	13.590	(1.000)	295607	40.0000	
\$ 36 Nitrobenzene-d5	82	6.354	6.354	(1.092)	424965	80.0000	80.0518
\$ 70 2-Fluorobiphenyl	172	8.099	8.099	(0.925)	830225	80.0000	78.5285
\$ 133 Terphenyl-d14	244	11.250	11.250	(0.925)	655185	80.0000	78.5389
\$ 10 2-Fluorophenol	112	4.621	4.621	(0.794)	597116	120.000	122.556
\$ 14 Phenol-d5	99	5.458	5.458	(0.938)	725532	120.000	120.311
\$ 103 2,4,6-Tribromophenol	330	9.452	9.452	(0.943)	132121	120.000	120.733
\$ 163 1,2-Dichlorobenzene-d4	152	5.968	5.968	(1.026)	265861	80.0000	79.2742
\$ 162 2-Chlorophenol-d4	132	5.614	5.614	(0.965)	628494	120.000	119.107
5 Pyridine	79	3.402	3.402	(0.585)	377170	80.0000	82.2274

Compounds	QUANT SIG					AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)
4 N-Nitrosodimethylamine	74	3.354	3.354	(0.576)	236239	80.0000	80.7183
16 Aniline	93	5.517	5.517	(0.948)	466176	80.0000	81.5590
15 Phenol	94	5.469	5.469	(0.940)	516400	80.0000	81.3739
18 Bis(2-chloroethyl) ether	93	5.555	5.555	(0.955)	397334	80.0000	79.6810
20 2-Chlorophenol	128	5.630	5.630	(0.968)	426561	80.0000	79.9037
21 1,3-Dichlorobenzene	146	5.769	5.769	(0.992)	463900	80.0000	79.6887
23 1,4-Dichlorobenzene	146	5.834	5.834	(1.003)	472608	80.0000	79.4234
24 Benzyl alcohol	108	5.947	5.947	(1.022)	269705	80.0000	81.1313
25 1,2-Dichlorobenzene	146	5.984	5.984	(1.029)	438428	80.0000	79.1744
26 2-Methylphenol	108	6.032	6.032	(1.037)	363923	80.0000	78.9429
27 1H-Indene	116	6.059	6.059	(1.042)	711963	80.0000	79.9187
28 2,2'-oxybis(1-chloropropane)	45	6.043	6.043	(1.039)	487294	80.0000	80.1758
29 4-Methylphenol	108	6.172	6.172	(1.061)	378780	80.0000	80.7803
30 N-nitrosodi-n-propylamine	70	6.183	6.183	(1.063)	284255	80.0000	82.2500
32 Acetophenone	105	6.199	6.199	(1.065)	535182	80.0000	79.8907
33 Hexachloroethane	117	6.301	6.301	(1.083)	178117	80.0000	80.7985
37 Nitrobenzene	77	6.371	6.371	(1.095)	423130	80.0000	79.8635
40 Isophorone	82	6.591	6.591	(0.935)	733583	80.0000	81.1338
41 2-Nitrophenol	139	6.676	6.676	(0.947)	229807	80.0000	82.2774
42 2,4-Dimethylphenol	107	6.682	6.682	(0.948)	374646	80.0000	77.8058
43 Bis(2-chloroethoxy)methane	93	6.773	6.773	(0.961)	435550	80.0000	78.9750
45 Benzoic acid	122	6.795	6.795	(0.964)	274456	80.0000	81.1432
46 2,4-Dichlorophenol	162	6.902	6.902	(0.979)	339313	80.0000	80.5495
47 1,2,4-Trichlorobenzene	180	6.982	6.982	(0.991)	377868	80.0000	79.6967
50 Naphthalene	128	7.068	7.068	(1.003)	1182053	80.0000	79.1463
51 4-Chloroaniline	127	7.122	7.122	(1.011)	503023	80.0000	79.9163
52 Hexachlorobutadiene	225	7.160	7.160	(1.016)	212180	80.0000	80.0798
59 4-Chloro-3-methylphenol	107	7.578	7.578	(1.075)	347456	80.0000	80.1134
62 2-Methylnaphthalene	142	7.745	7.745	(1.099)	784959	80.0000	79.2340
64 1-Methylnaphthalene	142	7.847	7.847	(1.113)	790344	80.0000	79.3681
63 Hexachlorocyclopentadiene	237	7.884	7.884	(0.900)	243930	80.0000	81.8973
67 2,4,6-Trichlorophenol	196	8.024	8.024	(0.916)	227776	80.0000	81.4889
68 2,4,5-Trichlorophenol	196	8.067	8.067	(0.921)	258639	80.0000	80.0181
71 2-Chloronaphthalene	162	8.239	8.239	(0.941)	722010	80.0000	79.0619
74 2-Nitroaniline	65	8.346	8.346	(0.953)	215968	80.0000	81.9443
76 Dimethyl phthalate	163	8.475	8.475	(0.968)	832718	80.0000	78.6487
79 2,6-Dinitrotoluene	165	8.555	8.555	(0.977)	184967	80.0000	80.7365
81 Acenaphthylene	152	8.636	8.636	(0.986)	1163103	80.0000	79.0735
82 3-Nitroaniline	138	8.727	8.727	(0.996)	212581	80.0000	81.2271
84 Acenaphthene	153	8.791	8.791	(1.004)	768602	80.0000	79.8771
85 2,4-Dinitrophenol	184	8.818	8.818	(1.007)	121750	80.0000	78.1931
86 4-Nitrophenol	109	8.861	8.861	(1.012)	108362	80.0000	79.7380
87 2,4-Dinitrotoluene	165	8.926	8.926	(1.019)	235149	80.0000	81.4816
88 Dibenzofuran	168	8.942	8.942	(1.021)	998201	80.0000	78.2279
93 Diethyl phthalate	149	9.097	9.097	(1.039)	730880	80.0000	77.4146
95 4-Chlorophenyl phenyl ether	204	9.215	9.215	(1.052)	404701	80.0000	78.5414
96 Fluorene	166	9.242	9.242	(1.055)	834902	80.0000	76.6289

Compounds	QUANT SIG					AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)
-----	----	--	-----	-----	-----	-----	-----
97 4-Nitroaniline	138	9.274	9.274	(1.059)	184155	80.0000	80.7533
99 4,6-Dinitro-2-methylphenol	198	9.280	9.280	(1.059)	143569	80.0000	78.6963
101 N-nitrosodiphenylamine	169	9.323	9.323	(1.064)	555711	80.0000	77.4211
102 Azobenzene	77	9.355	9.355	(1.068)	727025	80.0000	78.3126
108 4-Bromophenyl phenyl ether	248	9.629	9.629	(0.961)	214443	80.0000	79.8042
110 Hexachlorobenzene	284	9.699	9.699	(0.968)	194664	80.0000	78.8644
113 Pentachlorophenol	266	9.860	9.860	(0.984)	106940	80.0000	80.4641
118 Phenanthrene	178	10.042	10.042	(1.002)	1083287	80.0000	78.4501
122 Anthracene	178	10.085	10.085	(1.006)	1081820	80.0000	77.9437
123 Carbazole	167	10.214	10.214	(1.019)	891964	80.0000	79.1047
125 Di-n-butyl phthalate	149	10.402	10.402	(1.038)	1047852	80.0000	79.7433
130 Fluoranthene	202	10.992	10.992	(1.097)	1010079	80.0000	75.7843
131 Benzidine	184	11.078	11.078	(0.911)	130268	80.0000	85.5533
132 Pyrene	202	11.180	11.180	(0.919)	1004358	80.0000	78.6127
137 Butyl benzyl phthalate	149	11.599	11.599	(0.954)	361202	80.0000	80.2025
140 3,3'-Dichlorobenzidine	252	12.103	12.103	(0.995)	279070	80.0000	81.3200
141 Benzo(a)anthracene	228	12.152	12.152	(0.999)	817893	80.0000	78.2184 (H)
144 Chrysene	228	12.189	12.189	(1.002)	779625	80.0000	78.7185
143 Bis(2-ethylhexyl) phthalate	149	12.017	12.017	(0.988)	482483	80.0000	82.9066
146 Di-n-octyl phthalate	149	12.549	12.549	(1.032)	756810	80.0000	80.0044
147 Benzo(b)fluoranthene	252	13.145	13.145	(0.967)	669758	80.0000	78.3727 (H)
148 Benzo(k)fluoranthene	252	13.171	13.171	(0.969)	738226	80.0000	80.2591
150 Benzo(a)pyrene	252	13.526	13.526	(0.995)	617534	80.0000	79.6900
155 Indeno(1,2,3-cd)pyrene	276	15.082	15.082	(1.110)	597997	80.0000	79.6116
156 Dibenz(a,h)anthracene	278	15.077	15.077	(1.109)	545885	80.0000	80.2444
157 Benzo(g,h,i)perylene	276	15.555	15.555	(1.145)	511384	80.0000	79.3087
168 Methyl Styrene	118	5.539	5.539	(0.952)	437367	80.0000	80.6643
202 Alachlor	188	10.262	10.262	(1.024)	130919	80.0000	79.7420
204 Atrazine	200	9.741	9.741	(0.972)	18111	80.0000	78.8038
205 Caprolactam	55	7.503	7.503	(1.065)	148287	80.0000	85.0120
207 2,3-Dichlorobenzeneamine	161	8.040	8.040	(0.918)	414839	80.0000	79.8773
206 Decane	43	5.603	5.603	(0.963)	370666	80.0000	79.5582
213 n-Dodecane	43	6.956	6.956	(0.794)	368701	80.0000	80.4961
210 Tetradecane	43	8.115	8.115	(0.926)	360301	80.0000	80.6846
209 Hexadecane	57	9.060	9.060	(1.034)	459429	80.0000	80.1912
208 n-Octadecane	85	9.811	9.811	(0.979)	208430	80.0000	82.2209
211 n-Eicosane	43	10.461	10.461	(1.194)	286229	80.0000	78.9597
212 n-docosane	43	11.046	11.046	(1.261)	222482	80.0000	78.8983

QC Flag Legend

H - Operator selected an alternate compound hit.



STL-Denver

INTERNAL STANDARD COMPOUNDS  
AREA AND RT SUMMARY

Instrument ID: Y.i  
Lab File ID: y1724.d  
Lab Smp Id: HSL 0080  
Analysis Type: SV  
Quant Type: ISTD  
Operator: todear  
Method File: /chem/Y.i/052704.b/8270C.m  
Misc Info:

Calibration Date: 27-MAY-2004  
Calibration Time: 19:53  
Client Smp ID: HSL\_0080  
Level: LOW  
Sample Type: WATER

Test Mode:  
Use Last Continuing Calibrator.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
22 1,4-Dichlorobenze	162127	81064	324254	162127	0.00
49 Naphthalene-d8	630966	315483	1261932	630966	0.00
83 Acenaphthene-d10	368193	184096	736386	368193	0.00
117 Phenanthrene-d10	591673	295836	1183346	591673	0.00
142 Chrysene-d12	385856	192928	771712	385856	0.00
151 Perylene-d12	295607	147804	591214	295607	0.00

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
22 1,4-Dichlorobenze	5.82	5.32	6.32	5.82	0.00
49 Naphthalene-d8	7.05	6.55	7.55	7.05	0.00
83 Acenaphthene-d10	8.76	8.26	9.26	8.76	0.00
117 Phenanthrene-d10	10.02	9.52	10.52	10.02	0.00
142 Chrysene-d12	12.16	11.66	12.66	12.16	0.00
151 Perylene-d12	13.59	13.09	14.09	13.59	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/Y.i/052704.b/y1724.d

Date : 27-MAY-2004 19:53

Client ID: HSL\_0080

Sample Info: HSL\_0080,BNA1509,P:051104,E:053104

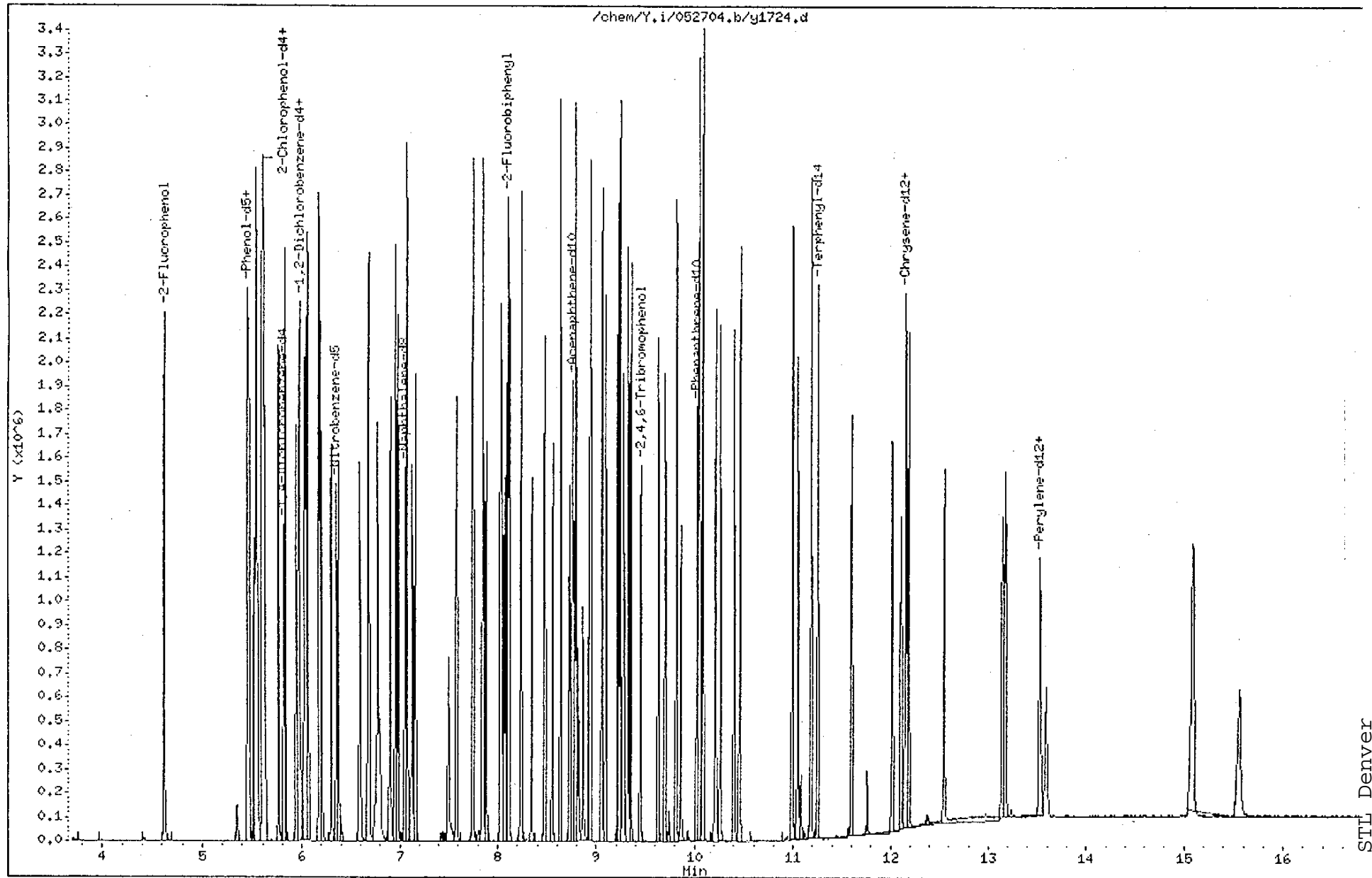
Volume Injected (uL): 0.5

Column phase: Rtx-5ms 30m 0.5um

Instrument: Y.i

Operator: todear

Column diameter: 0.25



mk  
05-28-04

STL-Denver

BNA ANALYSIS QUANTITATION REPORT

Data file : /chem/Y.i/052704.b/y1725.d  
Lab Smp Id: HSL\_0120 Client Smp ID: HSL\_0120  
Inj Date : 27-MAY-2004 20:20  
Operator : todear Inst ID: Y.i  
Smp Info : HSL\_0120,BNA1509,P:051104,E:053104  
Misc Info :  
Comment : SOP#CORP-MS-0001DEN, revision1.1  
Method : /chem/Y.i/052704.b/8270C.m  
Meth Date : 28-May-2004 02:56 kiddd Quant Type: ISTD  
Cal Date : 13-MAY-2004 20:08 Cal File: y1408.d  
Als bottle: 10 Calibration Sample, Level: 6  
Dil Factor: 1.00000  
Integrator: HP RTE Compound Sublist: 1-HSL.sub  
Target Version: 3.50  
Processing Host: chemsv03

Concentration Formula: Amt \* DF \* Vf/Vs \* CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vf	1000.00000	final volume at end of extraction (uL)
Vs	1000.00000	volume of sample extracted (mL)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG				AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/ml)
*****	----	--	-----	-----	-----	-----
* 22 1,4-Dichlorobenzene-d4	152	5.820	5.820	(1.000)	149176	40.0000
* 49 Naphthalene-d8	136	7.049	7.049	(1.000)	589389	40.0000
* 83 Acenaphthene-d10	164	8.756	8.756	(1.000)	342932	40.0000
* 117 Phenanthrene-d10	188	10.023	10.023	(1.000)	552528	40.0000
* 142 Chrysene-d12	240	12.170	12.170	(1.000)	359556	40.0000
* 151 Perylene-d12	264	13.592	13.592	(1.000)	277846	40.0000
\$ 36 Nitrobenzene-d5	82	6.357	6.357	(1.092)	590743	120.000 120.941
\$ 70 2-Fluorobiphenyl	172	8.096	8.096	(0.925)	1107930	120.000 112.515
\$ 133 Terphenyl-d14	244	11.252	11.252	(0.925)	921248	120.000 118.510
\$ 10 2-Fluorophenol	112	4.623	4.623	(0.794)	816415	180.000 182.114
\$ 14 Phenol-d5	99	5.460	5.460	(0.938)	993063	180.000 178.971
\$ 103 2,4,6-Tribromophenol	330	9.454	9.454	(0.943)	185459	180.000 181.480
\$ 163 1,2-Dichlorobenzene d4	152	5.970	5.970	(1.026)	358065	120.000 116.037
\$ 162 2-Chlorophenol-d4	132	5.616	5.616	(0.965)	849414	180.000 174.949
5 Pyridine	79	3.405	3.405	(0.585)	508633	120.000 120.515

Compounds	QUANT SIG					AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)
4 N-Nitrosodimethylamine	74	3.356	3.356	(0.577)	329037	120.000	122.186
16 Aniline	93	5.525	5.525	(0.949)	557035	120.000	117.456
15 Phenol	94	5.476	5.476	(0.941)	698965	120.000	119.704
18 Bis(2-chloroethyl) ether	93	5.557	5.557	(0.955)	557638	120.000	121.537
20 2-Chlorophenol	128	5.632	5.632	(0.968)	585405	120.000	119.179
21 1,3-Dichlorobenzene	146	5.766	5.766	(0.991)	626471	120.000	116.958
23 1,4-Dichlorobenzene	146	5.836	5.836	(1.003)	643996	120.000	117.622
24 Benzyl alcohol	108	5.949	5.949	(1.022)	373029	120.000	121.955
25 1,2-Dichlorobenzene	146	5.981	5.981	(1.028)	599240	120.000	117.610
26 2-Methylphenol	108	6.035	6.035	(1.037)	503856	120.000	118.786
27 1H-Indene	116	6.062	6.062	(1.042)	963813	120.000	117.582
28 2,2'-oxybis(1-chloropropane)	45	6.045	6.045	(1.039)	663366	120.000	118.621
29 4-Methylphenol	108	6.180	6.180	(1.062)	507023	120.000	117.517
30 N-nitrosodi-n-propylamine	70	6.185	6.185	(1.063)	391461	120.000	123.104
32 Acetophenone	105	6.201	6.201	(1.065)	748382	120.000	121.416
33 Hexachloroethane	117	6.298	6.298	(1.082)	241225	120.000	118.926
37 Nitrobenzene	77	6.378	6.378	(1.096)	577297	120.000	118.421
40 Isophorone	82	6.593	6.593	(0.935)	1007132	120.000	119.246
41 2-Nitrophenol	139	6.673	6.673	(0.947)	314545	120.000	120.560
42 2,4-Dimethylphenol	107	6.684	6.684	(0.948)	520804	120.000	115.789
43 Bis(2-chloroethoxy)methane	93	6.775	6.775	(0.961)	607505	120.000	117.925
45 Benzoic acid	122	6.813	6.813	(0.966)	399159	120.000	126.336
46 2,4-Dichlorophenol	162	6.904	6.904	(0.979)	463658	120.000	117.832
47 1,2,4-Trichlorobenzene	180	6.985	6.985	(0.991)	507498	120.000	114.588
50 Naphthalene	128	7.071	7.071	(1.003)	1610430	120.000	115.435
51 4-Chloroaniline	127	7.124	7.124	(1.011)	690383	120.000	117.420
52 Hexachlorobutadiene	225	7.157	7.157	(1.015)	282870	120.000	114.290
59 4-Chloro-3-methylphenol	107	7.586	7.586	(1.076)	477667	120.000	117.906
62 2-Methylnaphthalene	142	7.747	7.747	(1.099)	1046234	120.000	113.057
64 1-Methylnaphthalene	142	7.849	7.849	(1.113)	1051727	120.000	113.067
63 Hexachlorocyclopentadiene	237	7.887	7.887	(0.901)	333730	120.000	123.238
67 2,4,6-Trichlorophenol	196	8.026	8.026	(0.917)	308146	120.000	118.363
68 2,4,5-Trichlorophenol	196	8.069	8.069	(0.922)	359111	120.000	119.286
71 2-Chloronaphthalene	162	8.241	8.241	(0.941)	967240	120.000	113.717
74 2-Nitroaniline	65	8.348	8.348	(0.953)	300491	120.000	122.413
76 Dimethyl phthalate	163	8.477	8.477	(0.968)	1129191	120.000	114.506
79 2,6-Dinitrotoluene	165	8.558	8.558	(0.977)	258704	120.000	121.240
81 Acenaphthylene	152	8.638	8.638	(0.986)	1573010	120.000	114.818
82 3-Nitroaniline	138	8.735	8.735	(0.998)	299099	120.000	122.704
84 Acenaphthene	153	8.788	8.788	(1.004)	1006118	120.000	112.263
85 2,4-Dinitrophenol	184	8.821	8.821	(1.007)	184945	120.000	122.215
86 4-Nitrophenol	109	8.869	8.869	(1.013)	152633	120.000	120.588
87 2,4-Dinitrotoluene	165	8.928	8.928	(1.020)	321637	120.000	119.660
88 Dibenzofuran	168	8.944	8.944	(1.021)	1327979	120.000	111.738
93 Diethyl phthalate	149	9.100	9.100	(1.039)	993315	120.000	112.962
95 4-Chlorophenyl phenyl ether	204	9.218	9.218	(1.053)	533125	120.000	111.086
96 Fluorene	166	9.245	9.245	(1.056)	1129813	120.000	111.335

Compounds	QUANT SIG					AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)
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97 4-Nitroaniline	138	9.282	9.282	(1.060)	262628	120.000	123.647
99 4,6-Dinitro-2-methylphenol	198	9.282	9.282	(1.060)	210258	120.000	123.741
101 N-nitrosodiphenylamine	169	9.325	9.325	(1.065)	773027	120.000	115.630
102 Azobenzene	77	9.357	9.357	(1.069)	994495	120.000	115.014
108 4-Bromophenyl phenyl ether	248	9.631	9.631	(0.961)	289099	120.000	115.209
110 Hexachlorobenzene	284	9.701	9.701	(0.968)	267030	120.000	115.846
113 Pentachlorophenol	266	9.862	9.862	(0.984)	161801	120.000	130.368
118 Phenanthrene	178	10.044	10.044	(1.002)	1414273	120.000	109.676
122 Anthracene	178	10.087	10.087	(1.006)	1439087	120.000	111.030
123 Carbazole	167	10.211	10.211	(1.019)	1218100	120.000	115.682
125 Di-n-butyl phthalate	149	10.399	10.399	(1.037)	1446214	120.000	117.857
130 Fluoranthene	202	10.994	10.994	(1.097)	1385562	120.000	111.321
131 Benzidine	184	11.080	11.080	(0.910)	151396	120.000	109.038
132 Pyrene	202	11.188	11.188	(0.919)	1371122	120.000	115.170
137 Butyl benzyl phthalate	149	11.606	11.606	(0.954)	515571	120.000	122.853
140 3,3'-Dichlorobenzidine	252	12.111	12.111	(0.995)	391896	120.000	122.550
141 Benzo(a)anthracene	228	12.159	12.159	(0.999)	1129605	120.000	115.930(H)
144 Chrysene	228	12.191	12.191	(1.002)	1041964	120.000	112.902
143 Bis(2-ethylhexyl) phthalate	149	12.020	12.020	(0.988)	687436	120.000	126.765
146 Di-n-octyl phthalate	149	12.556	12.556	(1.032)	1084211	120.000	122.998
147 Benzo(b)fluoranthene	252	13.152	13.152	(0.968)	946907	120.000	117.887(H)
148 Benzo(k)fluoranthene	252	13.179	13.179	(0.970)	1049899	120.000	121.440
150 Benzo(a)pyrene	252	13.533	13.533	(0.996)	868158	120.000	119.193
155 Indeno(1,2,3-cd)pyrene	276	15.095	15.095	(1.111)	860663	120.000	121.905
156 Dibenz(a,h)anthracene	278	15.085	15.085	(1.110)	776702	120.000	121.473
157 Benzo(g,h,i)perylene	276	15.562	15.562	(1.145)	740232	120.000	122.138
168 Methyl Styrene	118	5.541	5.541	(0.952)	590296	120.000	118.321
202 Alachlor	188	10.264	10.264	(1.024)	181776	120.000	118.563
204 Atrazine	200	9.738	9.738	(0.972)	12613	120.000	58.7693
205 Caprolactam	55	7.511	7.511	(1.065)	209687	120.000	128.692
207 2,3-Dichlorobenzeneamine	161	8.042	8.042	(0.918)	551871	120.000	114.090
206 Decane	43	5.600	5.600	(0.962)	496371	120.000	115.788
213 n-Dodecane	43	6.958	6.958	(0.795)	496973	120.000	116.493
210 Tetradecane	43	8.117	8.117	(0.927)	482716	120.000	116.060
209 Hexadecane	57	9.057	9.057	(1.034)	613437	120.000	114.960
208 n-Octadecane	85	9.814	9.814	(0.979)	279270	120.000	117.971
211 n-Eicosane	43	10.463	10.463	(1.195)	382758	120.000	113.366
212 n-docosane	43	11.048	11.048	(1.262)	302204	120.000	115.064

# QC Flag Legend

H - Operator selected an alternate compound hit.

STL-Denver

INTERNAL STANDARD COMPOUNDS  
AREA AND RT SUMMARY

Instrument ID: Y.i  
Lab File ID: y1725.d  
Lab Smp Id: HSL\_0120  
Analysis Type: SV  
Quant Type: ISTD  
Operator: todear  
Method File: /chem/Y.i/052704.b/8270C.m  
Misc Info:

Calibration Date: 27-MAY-2004  
Calibration Time: 19:53  
Client Smp ID: HSL\_0120  
Level: LOW  
Sample Type: WATER

Test Mode:  
Use Last Continuing Calibrator.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
22 1,4-Dichlorobenze	162127	81064	324254	149176	-7.99
49 Naphthalene-d8	630966	315483	1261932	589389	-6.59
83 Acenaphthene-d10	368193	184096	736386	342932	-6.86
117 Phenanthrene-d10	591673	295836	1183346	552528	-6.62
142 Chrysene-d12	385856	192928	771712	359556	-6.82
151 Perylene-d12	295607	147804	591214	277846	-6.01

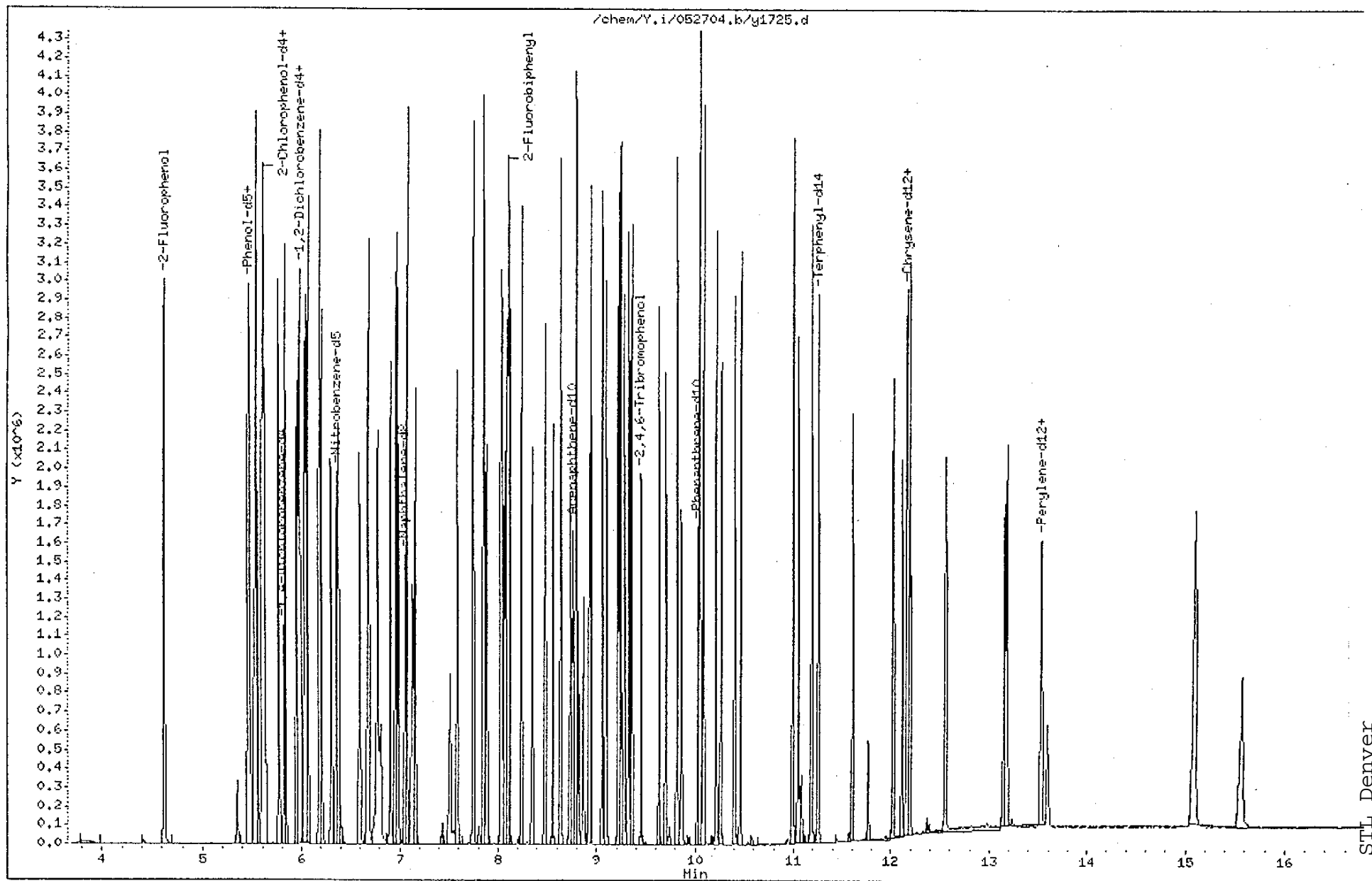
COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
22 1,4-Dichlorobenze	5.82	5.32	6.32	5.82	0.04
49 Naphthalene-d8	7.05	6.55	7.55	7.05	0.03
83 Acenaphthene-d10	8.76	8.26	9.26	8.76	-0.03
117 Phenanthrene-d10	10.02	9.52	10.52	10.02	0.02
142 Chrysene-d12	12.16	11.66	12.66	12.17	0.06
151 Perylene-d12	13.59	13.09	14.09	13.59	0.02

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/Y.i/052704.b/y1725.d  
Date : 27-MAY-2004 20:20  
Client ID: HSL\_0120  
Sample Info: HSL\_0120,BNA1509,P:051104,E:053104  
Volume Injected (uL): 0.5  
Column phase: Rtx-5ms 30m 0.5um

Instrument: Y.i  
Operator: todear  
Column diameter: 0.25

Page 5



mm  
05-28-04

STL-Denver

BNA ANALYSIS QUANTITATION REPORT

Data file : /chem/Y.i/052704.b/y1726.d  
Lab Smp Id: HSL\_0160 Client Smp ID: HSL\_0160  
Inj Date : 27-MAY-2004 20:47  
Operator : todear Inst ID: Y.i  
Smp Info : HSL\_0160,BNA1509,P:051104,E:053104  
Misc Info :  
Comment : SOP#CORP-MS-0001DEN, revision1.1  
Method : /chem/Y.i/052704.b/8270C.m  
Meth Date : 28-May-2004 02:56 kiddd Quant Type: ISTD  
Cal Date : 13-MAY-2004 20:35 Cal File: y1409.d  
Als bottle: 11 Calibration Sample, Level: 7  
Dil Factor: 1.00000  
Integrator: HP RTE Compound Sublist: 1-HSL.sub  
Target Version: 3.50  
Processing Host: chemsv03

Concentration Formula: Amt \* DF \* Vf/Vs \* CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vf	1000.00000	final volume at end of extraction (uL)
Vs	1000.00000	volume of sample extracted (mL)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG			RESPONSE	AMOUNTS	
	MASS	RT	EXP RT REL RT		CAL-AMT (ug/ml)	ON-COL (ug/ml)
* 22 1,4-Dichlorobenzene-d4	152	5.821	5.821 (1.000)	157204	40.0000	
* 49 Naphthalene-d8	136	7.050	7.050 (1.000)	603871	40.0000	
* 83 Acenaphthene-d10	164	8.757	8.757 (1.000)	347151	40.0000	
* 117 Phenanthrene-d10	188	10.024	10.024 (1.000)	545217	40.0000	
* 142 Chrysene-d12	240	12.171	12.171 (1.000)	356034	40.0000	
* 151 Perylene-d12	264	13.593	13.593 (1.000)	285676	40.0000	
\$ 36 Nitrobenzene-d5	82	6.357	6.357 (1.092)	799703	160.000	155.360
\$ 70 2-Fluorobiphenyl	172	8.102	8.102 (0.925)	1420600	160.000	142.515
\$ 133 Terphenyl-d14	244	11.253	11.253 (0.925)	1155545	160.000	150.121
\$ 10 2-Fluorophenol	112	4.624	4.624 (0.794)	1102685	240.000	233.410
\$ 14 Phenol-d5	99	5.466	5.466 (0.939)	1345054	240.000	230.029
\$ 103 2,4,6-Tribromophenol	330	9.455	9.455 (0.943)	245102	240.000	243.059
\$ 163 1,2-Dichlorobenzene-d4	152	5.971	5.971 (1.026)	474978	160.000	146.064
\$ 162 2-Chlorophenol-d4	132	5.617	5.617 (0.965)	1116882	240.000	218.291
5 Pyridine	79	3.416	3.416 (0.587)	702750	160.000	158.005



Compounds	QUANT SIG				RESPONSE	AMOUNTS	
	MASS	RT	EXP RT	REL RT		CAL-AMT (ug/ml)	ON-COL (ug/ml)
=====	----	==	-----	-----	-----	-----	-----
4 N-Nitrosodimethylamine	74	3.362	3.362	(0.578)	467340	160.000	164.682
16 Aniline	93	5.525	5.525	(0.949)	732676	160.000	162.416
15 Phenol	94	5.483	5.483	(0.942)	943523	160.000	153.336
18 Bis(2-chloroethyl) ether	93	5.563	5.563	(0.956)	742204	160.000	153.502
20 2-Chlorophenol	128	5.633	5.633	(0.968)	777672	160.000	150.236
21 1,3-Dichlorobenzene	146	5.772	5.772	(0.992)	832726	160.000	147.525
23 1,4-Dichlorobenzene	146	5.837	5.837	(1.003)	847161	160.000	146.827
24 Benzyl alcohol	108	5.955	5.955	(1.023)	514052	160.000	159.477
25 1,2-Dichlorobenzene	146	5.987	5.987	(1.029)	782342	160.000	145.705
26 2-Methylphenol	108	6.035	6.035	(1.037)	674008	160.000	150.786
27 1H-Indene	116	6.068	6.068	(1.042)	1284420	160.000	148.693
28 2,2'-oxybis(1-chloropropane)	45	6.051	6.051	(1.040)	890789	160.000	151.154
29 4-Methylphenol	108	6.180	6.180	(1.062)	680213	160.000	149.608
30 N-nitrosodi-n-propylamine	70	6.191	6.191	(1.064)	517535	160.000	154.440
32 Acetophenone	105	6.207	6.207	(1.066)	992893	160.000	152.858
33 Hexachloroethane	117	6.298	6.298	(1.082)	320830	160.000	150.094
37 Nitrobenzene	77	6.379	6.379	(1.096)	788063	160.000	153.401
40 Isophorone	82	6.599	6.599	(0.936)	1371670	160.000	158.513
41 2-Nitrophenol	139	6.680	6.680	(0.947)	424697	160.000	158.876
42 2,4-Dimethylphenol	107	6.690	6.690	(0.949)	693527	160.000	150.493
43 Bis(2-chloroethoxy)methane	93	6.776	6.776	(0.961)	816010	160.000	154.600
45 Benzoic acid	122	6.830	6.830	(0.969)	503552	160.000	155.555
46 2,4-Dichlorophenol	162	6.905	6.905	(0.979)	609488	160.000	151.178
47 1,2,4-Trichlorobenzene	180	6.985	6.985	(0.991)	670923	160.000	147.854
50 Naphthalene	128	7.077	7.077	(1.004)	2099293	160.000	146.868
51 4-Chloroaniline	127	7.125	7.125	(1.011)	915293	160.000	151.933(MH)
52 Hexachlorobutadiene	225	7.163	7.163	(1.016)	371647	160.000	146.558
59 4-Chloro-3-methylphenol	107	7.587	7.587	(1.076)	643380	160.000	155.001
62 2-Methylnaphthalene	142	7.748	7.748	(1.099)	1361107	160.000	143.555
64 1-Methylnaphthalene	142	7.855	7.855	(1.114)	1368048	160.000	143.547
63 Hexachlorocyclopentadiene	237	7.887	7.887	(0.901)	451847	160.000	164.828
67 2,4,6-Trichlorophenol	196	8.032	8.032	(0.917)	396041	160.000	150.275
68 2,4,5-Trichlorophenol	196	8.075	8.075	(0.922)	475071	160.000	155.887
71 2-Chloronaphthalene	162	8.242	8.242	(0.941)	1242157	160.000	144.264
74 2-Nitroaniline	65	8.349	8.349	(0.953)	401794	160.000	161.692
76 Dimethyl phthalate	163	8.483	8.483	(0.969)	1472663	160.000	147.521
79 2,6-Dinitrotoluene	165	8.564	8.564	(0.978)	341579	160.000	158.133
81 Acenaphthylene	152	8.639	8.639	(0.986)	2016918	160.000	145.431
82 3-Nitroaniline	138	8.735	8.735	(0.998)	401817	160.000	162.840
84 Acenaphthene	153	8.794	8.794	(1.004)	1292794	160.000	142.497
85 2,4-Dinitrophenol	184	8.821	8.821	(1.007)	252801	160.000	162.074
86 4-Nitrophenol	109	8.870	8.870	(1.013)	208951	160.000	163.076
87 2,4-Dinitrotoluene	165	8.929	8.929	(1.020)	416436	160.000	153.046
88 Dibenzofuran	168	8.945	8.945	(1.021)	1667822	160.000	138.628
93 Diethyl phthalate	149	9.100	9.100	(1.039)	1283989	160.000	144.243
95 4-Chlorophenyl phenyl ether	204	9.218	9.218	(1.053)	684964	160.000	140.990
96 Fluorene	166	9.245	9.245	(1.056)	1451110	160.000	141.258

Compounds	QUANT SIG					AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)
97 4-Nitroaniline	138	9.288	9.288	(1.061)	347655	160.000	161.690
99 4,6-Dinitro-2-methylphenol	198	9.288	9.288	(1.061)	277818	160.000	161.514
101 N-nitrosodiphenylamine	169	9.326	9.326	(1.065)	993286	160.000	146.772
102 Azobenzene	77	9.358	9.358	(1.069)	1277780	160.000	145.981
108 4-Bromophenyl phenyl ether	248	9.632	9.632	(0.961)	374972	160.000	151.434
110 Hexachlorobenzene	284	9.702	9.702	(0.968)	344524	160.000	151.470
113 Pentachlorophenol	266	9.863	9.863	(0.984)	217661	160.000	177.728
118 Phenanthrene	178	10.045	10.045	(1.002)	1799963	160.000	141.457
122 Anthracene	178	10.088	10.088	(1.006)	1789523	160.000	139.919
123 Carbazole	167	10.211	10.211	(1.019)	1531190	160.000	147.366
125 Di-n-butyl phthalate	149	10.399	10.399	(1.037)	1809477	160.000	149.438
130 Fluoranthene	202	10.995	10.995	(1.097)	1730183	160.000	140.873
131 Benzidine	184	11.076	11.076	(0.910)	219991	160.000	164.427
132 Pyrene	202	11.183	11.183	(0.919)	1716733	160.000	145.627
137 Butyl benzyl phthalate	149	11.602	11.602	(0.953)	673175	160.000	161.994
140 3,3'-Dichlorobenzidine	252	12.112	12.112	(0.995)	530384	160.000	167.498
141 Benzo(a)anthracene	228	12.160	12.160	(0.999)	1467254	160.000	152.073 (H)
144 Chrysene	228	12.192	12.192	(1.002)	1355155	160.000	148.291
143 Bis(2-ethylhexyl) phthalate	149	12.020	12.020	(0.988)	899405	160.000	167.493
146 Di-n-octyl phthalate	149	12.557	12.557	(1.032)	1439993	160.000	164.976
147 Benzo(b)fluoranthene	252	13.153	13.153	(0.968)	1441958	160.000	174.598 (H)
148 Benzo(k)fluoranthene	252	13.180	13.180	(0.970)	1298389	160.000	146.066
150 Benzo(a)pyrene	252	13.534	13.534	(0.996)	1206413	160.000	161.094
155 Indeno(1,2,3-cd)pyrene	276	15.101	15.101	(1.111)	1213687	160.000	167.196
156 Dibenzo(a,h)anthracene	278	15.096	15.096	(1.111)	1090357	160.000	165.853
157 Benzo(g,h,i)perylene	276	15.568	15.568	(1.145)	1062944	160.000	170.579
168 Methyl Styrene	118	5.542	5.542	(0.952)	783430	160.000	149.014
202 Alachlor	188	10.265	10.265	(1.024)	232916	160.000	153.956
204 Atrazine	200	9.739	9.739	(0.972)	10458	160.000	49.3817 (Q)
205 Caprolactam	55	7.528	7.528	(1.068)	271517	160.000	162.643
207 2,3-Dichlorobenzeneamine	161	8.043	8.043	(0.918)	719570	160.000	146.952
206 Decane	43	5.606	5.606	(0.963)	657076	160.000	145.449
213 n-Dodecane	43	6.959	6.959	(0.795)	650605	160.000	150.652
210 Tetradecane	43	8.118	8.118	(0.927)	625712	160.000	148.613
209 Hexadecane	57	9.063	9.063	(1.035)	794008	160.000	146.991
208 n-Octadecane	85	9.814	9.814	(0.979)	356515	160.000	152.620
211 n-Eicosane	43	10.458	10.458	(1.194)	478972	160.000	140.139
212 n-docosane	43	11.049	11.049	(1.262)	387548	160.000	145.766

# QC Flag Legend

Q - Qualifier signal failed the ratio test.  
M - Compound response manually integrated.  
H - Operator selected an alternate compound hit.

STL-Denver

INTERNAL STANDARD COMPOUNDS  
AREA AND RT SUMMARY

Instrument ID: Y.i  
Lab File ID: y1726.d  
Lab Smp Id: HSL 0160  
Analysis Type: SV  
Quant Type: ISTD  
Operator: todear  
Method File: /chem/Y.i/052704.b/8270C.m  
Misc Info:

Calibration Date: 27-MAY-2004  
Calibration Time: 19:53  
Client Smp ID: HSL\_0160  
Level: LOW  
Sample Type: WATER

Test Mode:  
Use Last Continuing Calibrator.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
22 1,4-Dichlorobenze	162127	81064	324254	157204	-3.04
49 Naphthalene-d8	630966	315483	1261932	603871	-4.29
83 Acenaphthene-d10	368193	184096	736386	347151	-5.71
117 Phenanthrene-d10	591673	295836	1183346	545217	-7.85
142 Chrysene-d12	385856	192928	771712	356034	-7.73
151 Perylene-d12	295607	147804	591214	285676	-3.36

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
22 1,4-Dichlorobenze	5.82	5.32	6.32	5.82	0.05
49 Naphthalene-d8	7.05	6.55	7.55	7.05	0.04
83 Acenaphthene-d10	8.76	8.26	9.26	8.76	-0.03
117 Phenanthrene-d10	10.02	9.52	10.52	10.02	0.03
142 Chrysene-d12	12.16	11.66	12.66	12.17	0.07
151 Perylene-d12	13.59	13.09	14.09	13.59	0.02

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/Y.i/052704.b/y1726.d

Date : 27-MAY-2004 20:47

Client ID: HSL\_0160

Sample Info: HSL\_0160,BNA1509,F:051104,E:053104

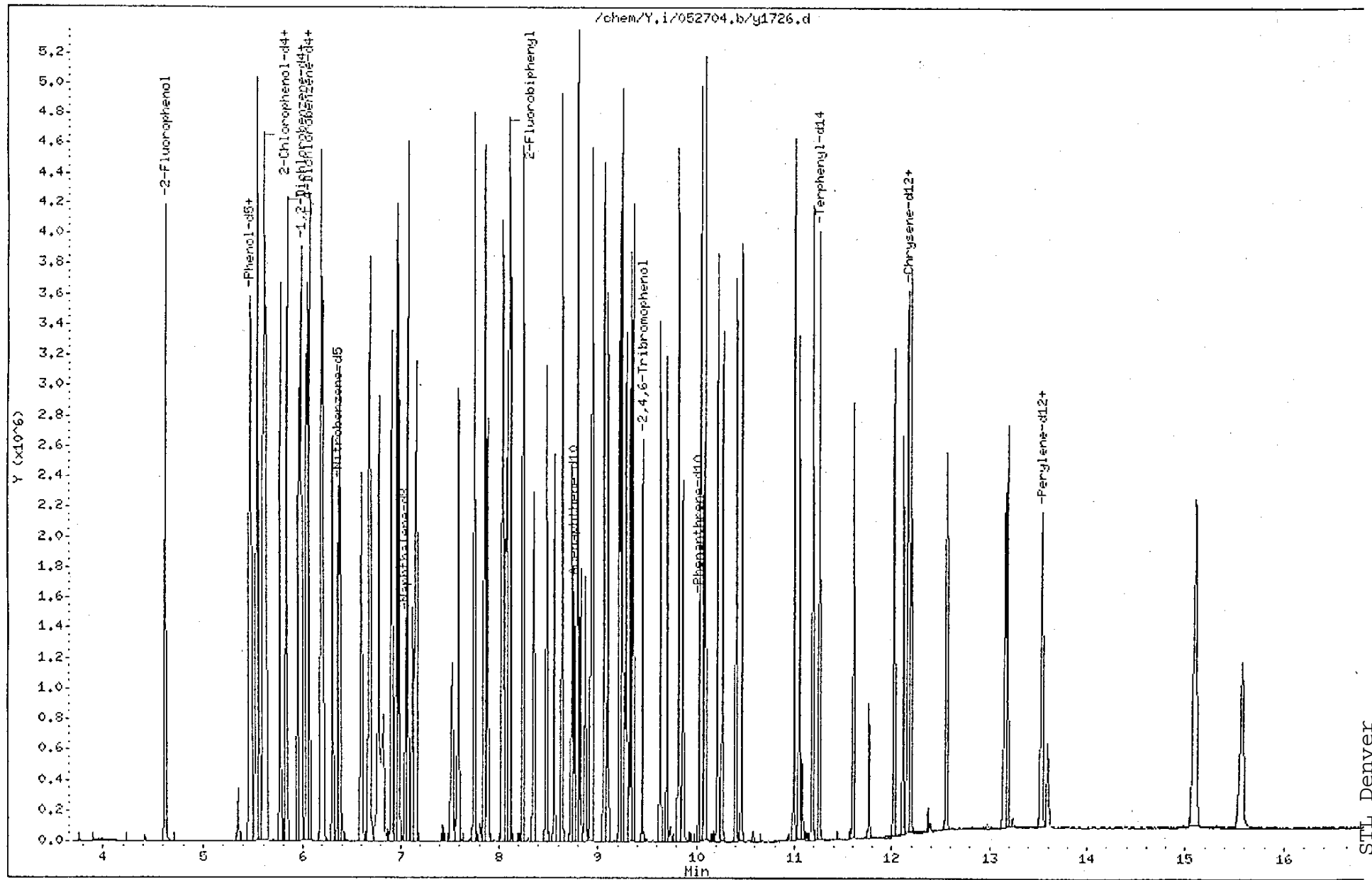
Volume Injected (uL): 0.5

Column phase: Rtx-5ms 30m 0.5um

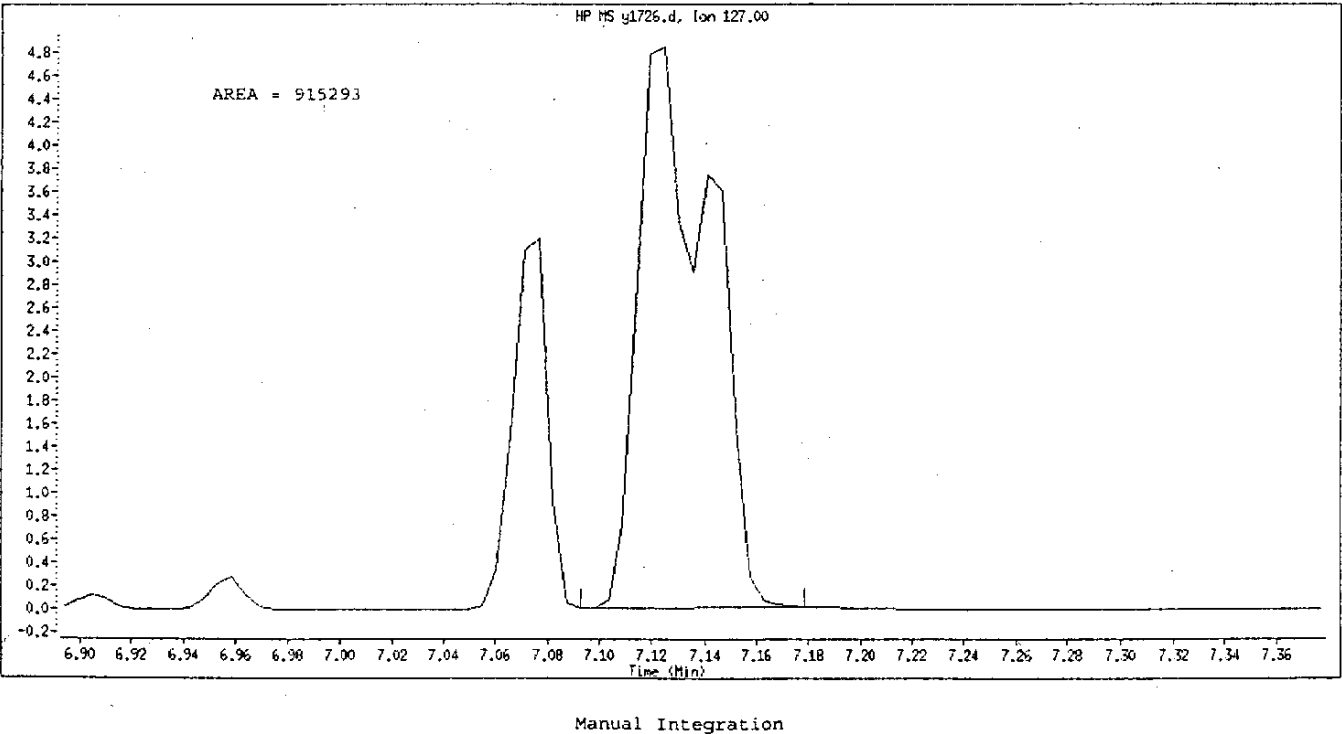
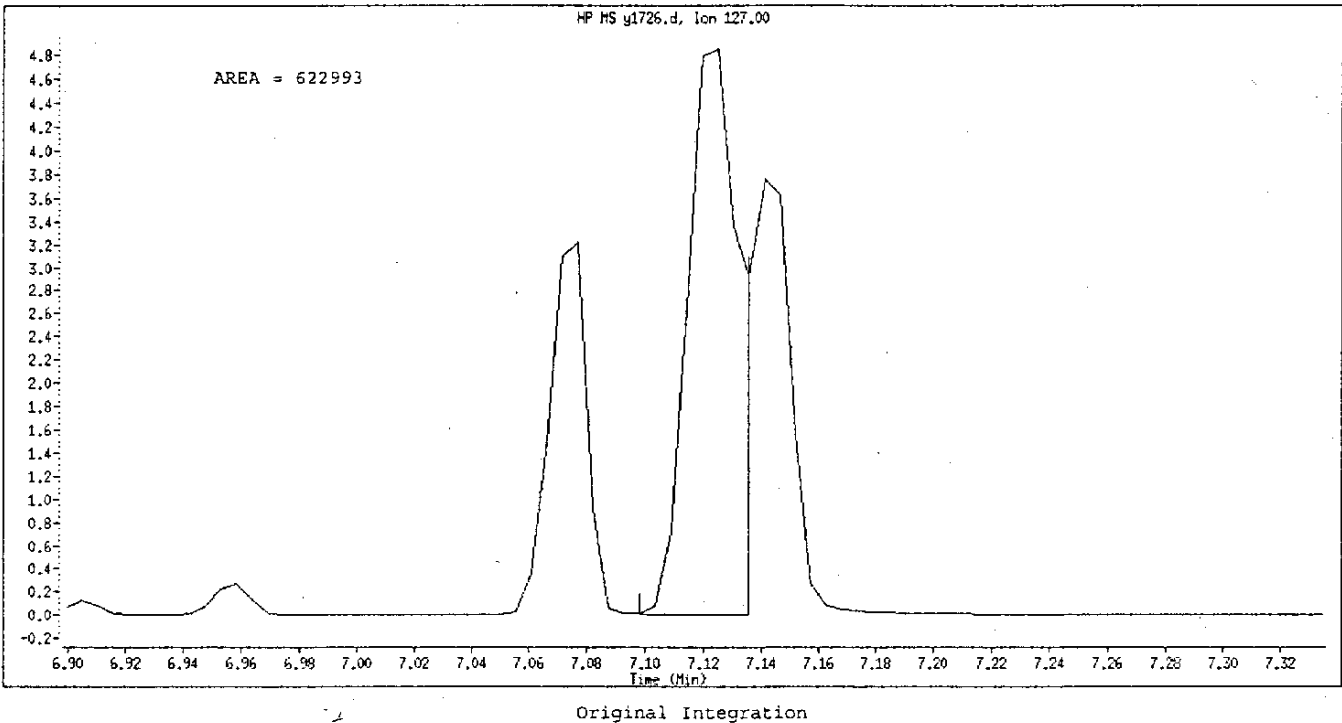
Instrument: Y.i

Operator: todear

Column diameter: 0.25



Data File Name: y1726.d  
Inj. Date and Time: 27-MAY-2004 20:47  
Instrument ID: Y.i  
Client ID: HSL\_0160  
Compound Name: 4-Chloroaniline  
CAS #: 106-47-8  
Report Date: 05/28/2004



Manually Integrated By: kidd  
Manual Integration Reason: Split Peak

*mm*  
*05-28-04*

MEK  
05-28-04

STL-Denver

BNA ANALYSIS QUANTITATION REPORT

Data file : /chem/Y.i/052704.b/y1727.d  
Lab Smp Id: HSL\_0200 Client Smp ID: HSL\_0200  
Inj Date : 27-MAY-2004 21:14  
Operator : todear Inst ID: Y.i  
Smp Info : HSL\_0200,BNA1509,P:051104,E:053104  
Misc Info :  
Comment : SOP#CORP-MS-0001DEN, revision1.1  
Method : /chem/Y.i/052704.b/8270C.m  
Meth Date : 28-May-2004 02:57 kiddd Quant Type: ISTD  
Cal Date : 26-MAY-2004 17:20 Cal File: y1684.d  
Als bottle: 12 Calibration Sample, Level: 8  
Dil Factor: 1.00000  
Integrator: HP RTE Compound Sublist: 1-HSL.sub  
Target Version: 3.50  
Processing Host: chemsv03

Concentration Formula: Amt \* DF \* Vf/Vs \* CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vf	1000.00000	final volume at end of extraction (uL)
Vs	1000.00000	volume of sample extracted (mL)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG				AMOUNTS	
	MASS	RT	EXP RT	REL RT	CAL-AMT (ug/ml)	ON-COL (ug/ml)
* 22 1,4-Dichlorobenzene-d4	152	5.817	5.817	(1.000)	151035	40.0000
* 49 Naphthalene-d8	136	7.052	7.052	(1.000)	588974	40.0000
* 83 Acenaphthene-d10	164	8.759	8.759	(1.000)	345100	40.0000
* 117 Phenanthrene-d10	188	10.026	10.026	(1.000)	555689	40.0000
* 142 Chrysene-d12	240	12.157	12.157	(1.000)	355561	40.0000
* 151 Perylene-d12	264	13.579	13.579	(1.000)	288779	40.0000
\$ 36 Nitrobenzene-d5	82	6.359	6.359	(1.093)	957962	200.000 193.706
\$ 70 2-Fluorobiphenyl	172	8.099	8.099	(0.925)	1662385	200.000 167.762
\$ 133 Terphenyl-d14	244	11.250	11.250	(0.925)	1441961	200.000 187.579
\$ 10 2-Fluorophenol	112	4.626	4.626	(0.795)	1300308	300.000 286.484
\$ 14 Phenol-d5	99	5.468	5.468	(0.940)	1618925	300.000 288.174
\$ 103 2,4,6-Tribromophenol	330	9.457	9.457	(0.943)	298896	300.000 290.819
\$ 163 1,2-Dichlorobenzene-d4	152	5.973	5.973	(1.027)	543365	200.000 173.919
\$ 162 2-Chlorophenol-d4	132	5.619	5.619	(0.966)	1312608	300.000 267.023
5 Pyridine	79	3.423	3.423	(0.588)	836924	200.000 195.859

Compounds	QUANT SIG					AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)
4 N-Nitrosodimethylamine	74	3.364	3.364	(0.578)	563300	200.000	206.604 (A)
16 Aniline	93	5.533	5.533	(0.951)	805283	200.000	199.014
15 Phenol	94	5.485	5.485	(0.943)	1130400	200.000	191.209
18 Bis(2-chloroethyl) ether	93	5.565	5.565	(0.957)	879909	200.000	189.415
20 2-Chlorophenol	128	5.635	5.635	(0.969)	920132	200.000	185.018
21 1,3-Dichlorobenzene	146	5.769	5.769	(0.992)	984868	200.000	181.605
23 1,4-Dichlorobenzene	146	5.839	5.839	(1.004)	997473	200.000	179.939
24 Benzyl alcohol	108	5.957	5.957	(1.024)	607700	200.000	196.230
25 1,2-Dichlorobenzene	146	5.984	5.984	(1.029)	914919	200.000	177.356
26 2-Methylphenol	108	6.037	6.037	(1.038)	793330	200.000	184.729
27 1H-Indene	116	6.064	6.064	(1.042)	1487776	200.000	179.269
28 2,2'-oxybis(1-chloropropane)	45	6.048	6.048	(1.040)	1041747	200.000	183.989
29 4-Methylphenol	108	6.188	6.188	(1.064)	796169	200.000	182.264
30 N-nitrosodi-n-propylamine	70	6.198	6.198	(1.065)	609961	200.000	189.456
32 Acetophenone	105	6.209	6.209	(1.067)	1156716	200.000	185.353
33 Hexachloroethane	117	6.300	6.300	(1.083)	379095	200.000	184.596
37 Nitrobenzene	77	6.381	6.381	(1.097)	934326	200.000	189.300
40 Isophorone	82	6.601	6.601	(0.936)	1648585	200.000	195.332
41 2-Nitrophenol	139	6.682	6.682	(0.947)	506867	200.000	194.411
42 2,4-Dimethylphenol	107	6.692	6.692	(0.949)	839711	200.000	186.823
43 Bis(2-chloroethoxy)methane	93	6.778	6.778	(0.961)	980495	200.000	190.461
45 Benzoic acid	122	6.837	6.837	(0.970)	632710	200.000	200.398 (A)
46 2,4-Dichlorophenol	162	6.907	6.907	(0.979)	732975	200.000	186.407
47 1,2,4-Trichlorobenzene	180	6.988	6.988	(0.991)	787904	200.000	178.026
50 Naphthalene	128	7.073	7.073	(1.003)	2484231	200.000	178.195
51 4-Chloroaniline	127	7.122	7.122	(1.010)	1069691	200.000	182.060 (M)
52 Hexachlorobutadiene	225	7.159	7.159	(1.015)	421018	200.000	170.227
59 4-Chloro-3-methylphenol	107	7.594	7.594	(1.077)	780788	200.000	192.863
62 2-Methylnaphthalene	142	7.750	7.750	(1.099)	1606584	200.000	173.731
64 1-Methylnaphthalene	142	7.852	7.852	(1.113)	1600164	200.000	172.149
63 Hexachlorocyclopentadiene	237	7.884	7.884	(0.900)	537896	200.000	197.384
67 2,4,6-Trichlorophenol	196	8.034	8.034	(0.917)	470960	200.000	179.765
68 2,4,5-Trichlorophenol	196	8.072	8.072	(0.922)	567262	200.000	187.244
71 2-Chloronaphthalene	162	8.244	8.244	(0.941)	1469584	200.000	171.692
74 2-Nitroaniline	65	8.351	8.351	(0.953)	495331	200.000	200.519 (A)
76 Dimethyl phthalate	163	8.480	8.480	(0.968)	1780021	200.000	179.370
79 2,6-Dinitrotoluene	165	8.560	8.560	(0.977)	419755	200.000	195.480
81 Acenaphthylene	152	8.641	8.641	(0.987)	2355563	200.000	170.859
82 3-Nitroaniline	138	8.737	8.737	(0.998)	504109	200.000	205.509 (A)
84 Acenaphthene	153	8.791	8.791	(1.004)	1522891	200.000	168.857
85 2,4-Dinitrophenol	184	8.823	8.823	(1.007)	319551	200.000	203.799 (A)
86 4-Nitrophenol	109	8.877	8.877	(1.013)	263428	200.000	206.814 (A)
87 2,4-Dinitrotoluene	165	8.931	8.931	(1.020)	501026	200.000	185.228
88 Dibenzofuran	168	8.947	8.947	(1.021)	1956733	200.000	163.608
93 Diethyl phthalate	149	9.102	9.102	(1.039)	1559240	200.000	176.206
95 4-Chlorophenyl phenyl ether	204	9.220	9.220	(1.053)	813970	200.000	168.540
96 Fluorene	166	9.242	9.242	(1.055)	1729516	200.000	169.361

Compounds	QUANT SIG					AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)
97 4-Nitroaniline	138	9.296	9.296	(1.061)	448083	200.000	209.636(A)
99 4,6-Dinitro-2-methylphenol	198	9.290	9.290	(1.061)	359029	200.000	209.968(A)
101 N-nitrosodiphenylamine	169	9.328	9.328	(1.065)	1213985	200.000	180.449
102 Azobenzene	77	9.360	9.360	(1.069)	1527048	200.000	175.495
108 4-Bromophenyl phenyl ether	248	9.634	9.634	(0.961)	459370	200.000	182.023
110 Hexachlorobenzene	284	9.704	9.704	(0.968)	420321	200.000	181.312
113 Pentachlorophenol	266	9.865	9.865	(0.984)	281924	200.000	225.862(A)
118 Phenanthrene	178	10.047	10.047	(1.002)	2194420	200.000	169.208
122 Anthracene	178	10.090	10.090	(1.006)	2172042	200.000	166.626
123 Carbazole	167	10.214	10.214	(1.019)	1921488	200.000	181.444
125 Di-n-butyl phthalate	149	10.401	10.401	(1.037)	2236150	200.000	181.195
130 Fluoranthene	202	10.992	10.992	(1.096)	2141244	200.000	171.057
131 Benzidine	184	11.072	11.072	(0.911)	240676	200.000	181.030
132 Pyrene	202	11.180	11.180	(0.920)	2149712	200.000	182.598
137 Butyl benzyl phthalate	149	11.593	11.593	(0.954)	842059	200.000	202.904(A)
140 3,3'-Dichlorobenzidine	252	12.098	12.098	(0.995)	649848	200.000	205.498(A)
141 Benzo(a)anthracene	228	12.146	12.146	(0.999)	1805283	200.000	187.356(H)
144 Chrysene	228	12.184	12.184	(1.002)	1630546	200.000	178.663
143 Bis(2-ethylhexyl) phthalate	149	12.006	12.006	(0.988)	1116845	200.000	208.263(A)
146 Di-n-octyl phthalate	149	12.538	12.538	(1.031)	1780558	200.000	204.265(A)
147 Benzo(b)fluoranthene	252	13.139	13.139	(0.968)	1673103	200.000	200.410(AH)
148 Benzo(k)fluoranthene	252	13.166	13.166	(0.970)	1727454	200.000	192.247
150 Benzo(a)pyrene	252	13.520	13.520	(0.996)	1505065	200.000	198.814
155 Indeno(1,2,3-cd)pyrene	276	15.087	15.087	(1.111)	1521739	200.000	207.380(A)
156 Dibenz(a,h)anthracene	278	15.077	15.077	(1.110)	1341788	200.000	201.905(A)
157 Benzo(g,h,i)perylene	276	15.560	15.560	(1.146)	1337640	200.000	212.355(A)
168 Methyl Styrene	118	5.544	5.544	(0.953)	897797	200.000	177.742
202 Alachlor	188	10.262	10.262	(1.024)	288667	200.000	187.211
204 Atrazine	200	9.741	9.741	(0.972)	8478	200.000	39.2779(Q)
205 Caprolactam	55	7.535	7.535	(1.068)	320359	200.000	196.754
207 2,3-Dichlorobenzeneamine	161	8.045	8.045	(0.918)	852341	200.000	175.101
206 Decane	43	5.603	5.603	(0.963)	760098	200.000	175.126
213 n-Dodecane	43	6.955	6.955	(0.794)	771014	200.000	179.595
210 Tetradecane	43	8.120	8.120	(0.927)	717681	200.000	171.470
209 Hexadecane	57	9.059	9.059	(1.034)	927462	200.000	172.717
208 n-Octadecane	85	9.816	9.816	(0.979)	419437	200.000	176.173
211 n-Eicosane	43	10.460	10.460	(1.194)	568166	200.000	167.224
212 n-docosane	43	11.040	11.040	(1.260)	464957	200.000	175.920

# QC Flag Legend

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



STL-Denver

INTERNAL STANDARD COMPOUNDS  
AREA AND RT SUMMARY

Instrument ID: Y.i  
Lab File ID: y1727.d  
Lab Smp Id: HSL 0200  
Analysis Type: SV  
Quant Type: ISTD  
Operator: todear  
Method File: /chem/Y.i/052704.b/8270C.m  
Misc Info:

Calibration Date: 27-MAY-2004  
Calibration Time: 19:53  
Client Smp ID: HSL\_0200  
Level: LOW  
Sample Type: WATER

Test Mode:  
Use Last Continuing Calibrator.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
22 1,4-Dichlorobenze	162127	81064	324254	151035	-6.84
49 Naphthalene-d8	630966	315483	1261932	588974	-6.66
83 Acenaphthene-d10	368193	184096	736386	345100	-6.27
117 Phenanthrene-d10	591673	295836	1183346	555689	-6.08
142 Chrysene-d12	385856	192928	771712	355561	-7.85
151 Perylene-d12	295607	147804	591214	288779	-2.31

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
22 1,4-Dichlorobenze	5.82	5.32	6.32	5.82	-0.01
49 Naphthalene-d8	7.05	6.55	7.55	7.05	0.07
83 Acenaphthene-d10	8.76	8.26	9.26	8.76	0.00
117 Phenanthrene-d10	10.02	9.52	10.52	10.03	0.05
142 Chrysene-d12	12.16	11.66	12.66	12.16	-0.05
151 Perylene-d12	13.59	13.09	14.09	13.58	-0.08

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/Y.i/052704.b/y1727.d

Page 17

Date : 27-MAY-2004 21:14

Client ID: HSL\_0200

Instrument: Y.i

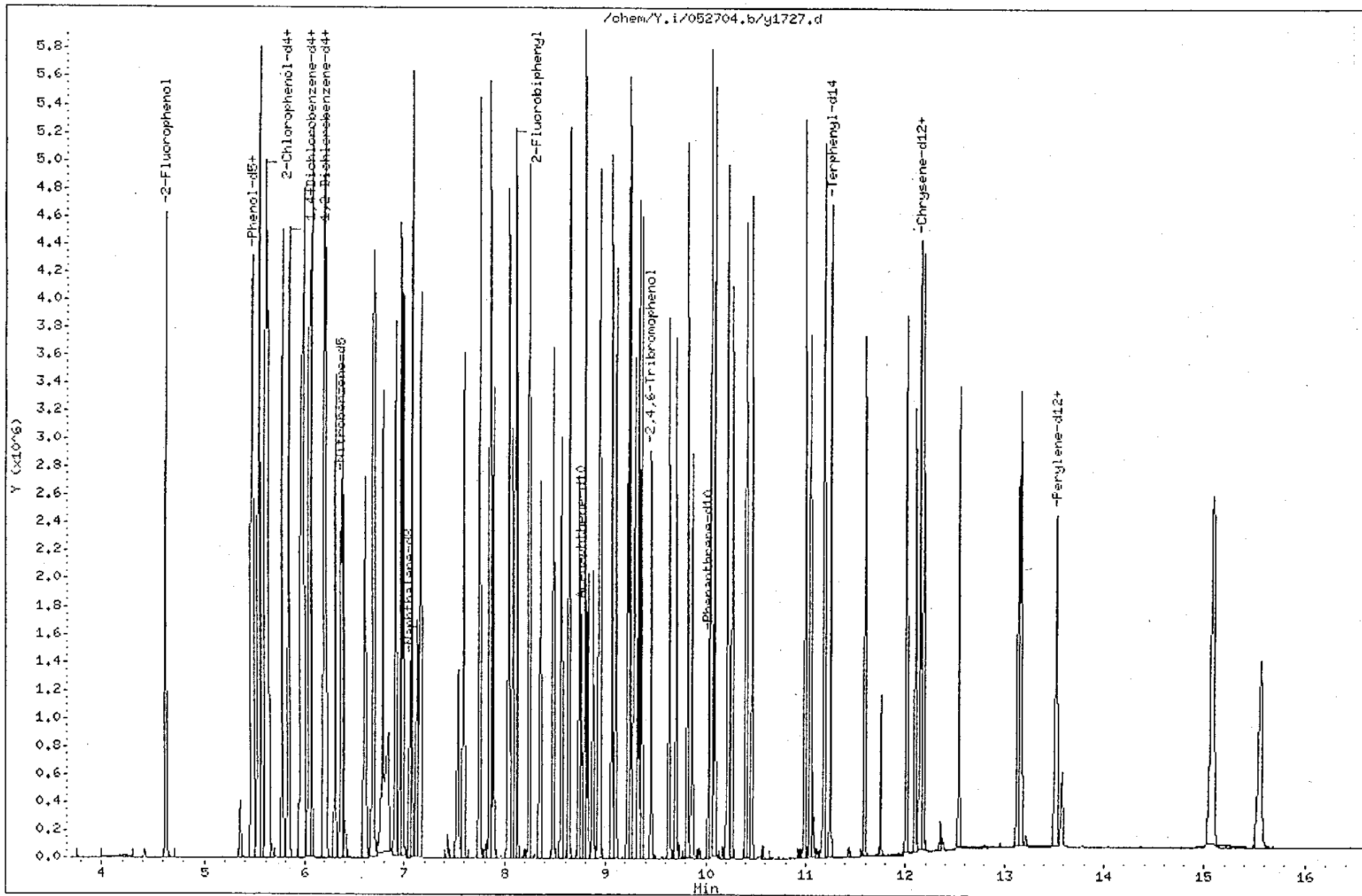
Sample Info: HSL\_0200,BNA1509,P:051104,E:053104

Volume Injected (uL): 0.5

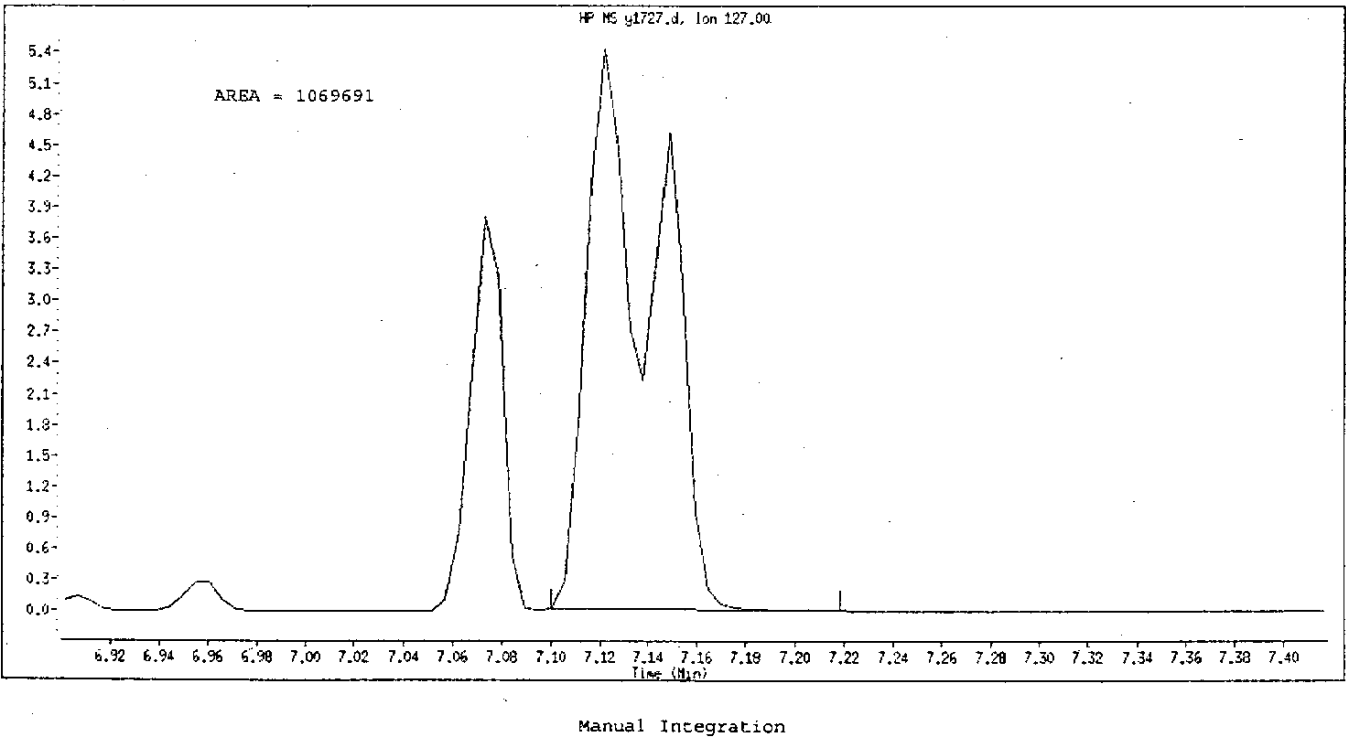
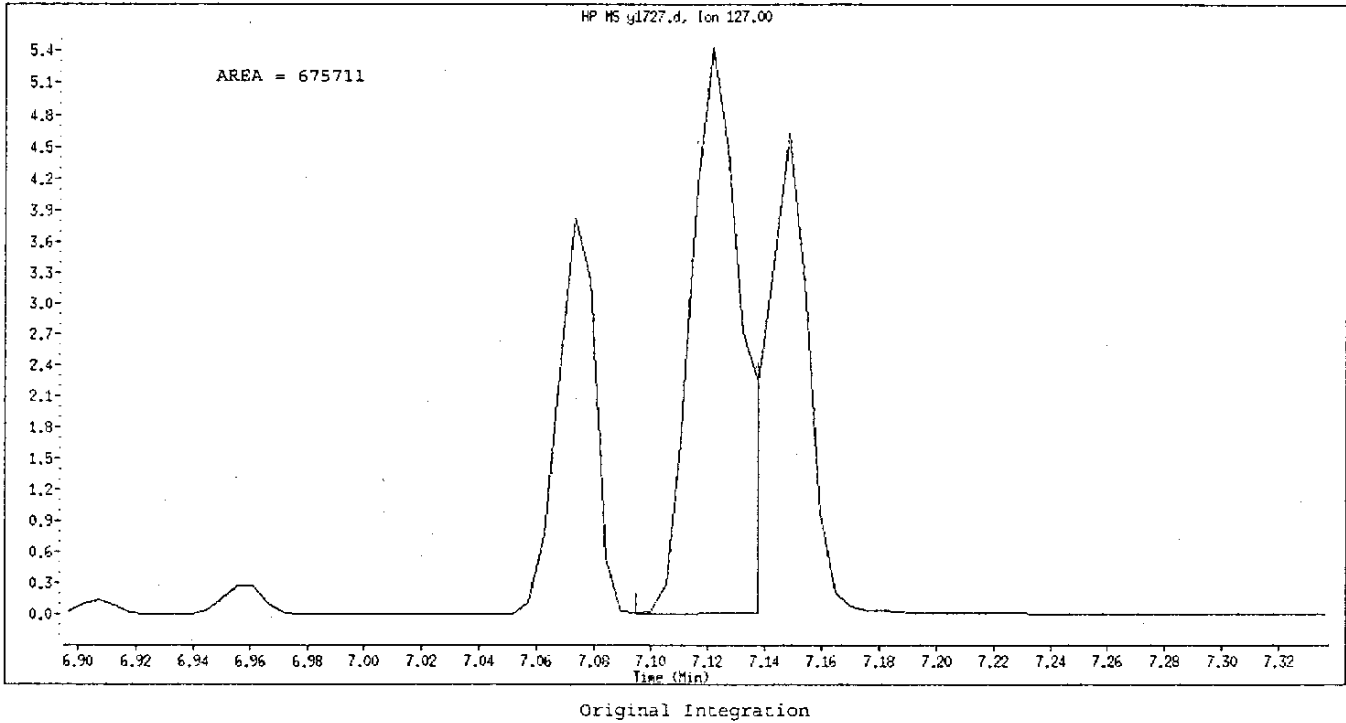
Operator: todear

Column phase: Rtx-5ms 30m 0.5um

Column diameter: 0.25



Data File Name: y1727.d  
Inj. Date and Time: 27-MAY-2004 21:14  
Instrument ID: Y.i  
Client ID: HSL\_0200  
Compound Name: 4-Chloroaniline  
CAS #: 106-47-8  
Report Date: 05/28/2004



Manually Integrated By: kidd  
Manual Integration Reason: Split Peak

mm  
05-28-04

MLK  
05-28-04

STL-Denver

BNA ANALYSIS QUANTITATION REPORT

Data file : /chem/Y.i/052704.b/y1728.d  
Lab Smp Id: HSL 0100 SSV Client Smp ID: HSL\_0100 SSV  
Inj Date : 27-MAY-2004 21:40  
Operator : todear Inst ID: Y.i  
Smp Info : HSL\_0100 SSV,BNA1346,P:051104,E:113004  
Misc Info :  
Comment : SOP#CORP-MS-0001DEN, revision1.1  
Method : /chem/Y.i/052704.b/8270C.m  
Meth Date : 28-May-2004 02:57 kidd Quant Type: ISTD  
Cal Date : 26-MAY-2004 17:20 Cal File: y1684.d  
Als bottle: 13 QC Sample: SSV  
Dil Factor: 1.00000  
Integrator: HP RTE Compound Sublist: HSLSSV.sub  
Target Version: 3.50  
Processing Host: chemsv03

Concentration Formula: Amt \* DF \* Vf/Vs \* CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vf	1000.00000	final volume at end of extraction (uL)
Vs	1000.00000	volume of sample extracted (mL)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG					CONCENTRATIONS	
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN	FINAL
						(ug/ml)	( ug/L)
*****	----	--	-----	-----	-----	-----	-----
* 22 1,4-Dichlorobenzene-d4	152	5.816	5.817	(1.000)	171946	40.0000	
* 49 Naphthalene-d8	136	7.045	7.052	(1.000)	670437	40.0000	
* 83 Acenaphthene-d10	164	8.758	8.759	(1.000)	381316	40.0000	
* 117 Phenanthrene-d10	188	10.024	10.026	(1.000)	600805	40.0000	
* 142 Chrysene-d12	240	12.166	12.157	(1.000)	341670	40.0000	
* 151 Perylene-d12	264	13.594	13.579	(1.000)	238732	40.0000	
\$ 36 Nitrobenzene-d5	82	6.353	6.359	(1.092)	567864	100.862	100.862
\$ 70 2-Fluorobiphenyl	172	8.097	8.099	(0.925)	1059112	96.7306	96.7306
\$ 133 Terphenyl-d14	244	11.254	11.250	(0.925)	875947	118.582	118.582
\$ 10 2-Fluorophenol	112	4.625	4.626	(0.795)	791538	153.183	153.183
\$ 14 Phenol-d5	99	5.462	5.468	(0.939)	951004	148.695	148.695
\$ 103 2,4,6 Tribromophenol	330	9.450	9.457	(0.943)	183469	165.106	165.106
5 Pyridine	79	3.401	3.423	(0.585)	538177	110.629	110.629
4 N-Nitrosodimethylamine	74	3.363	3.364	(0.578)	316126	101.846	101.846
16 Aniline	93	5.521	5.533	(0.949)	577822	101.157	101.156

Compounds	QUANT SIG					CONCENTRATIONS	
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/ml)	FINAL ( ug/L)
-----	----	--	-----	-----	-----	-----	-----
15 Phenol	94	5.473	5.485	(0.941)	680663	101.133	101.133
18 Bis(2-chloroethyl) ether	93	5.559	5.565	(0.956)	547987	103.617	103.617
20 2-Chlorophenol	128	5.628	5.635	(0.968)	570618	100.785	100.785
21 1,3-Dichlorobenzene	146	5.768	5.769	(0.992)	617359	99.9939	99.9939
23 1,4-Dichlorobenzene	146	5.832	5.839	(1.003)	624503	98.9567	98.9567
24 Benzyl alcohol	108	5.945	5.957	(1.022)	364119	103.278	103.278
25 1,2-Dichlorobenzene	146	5.983	5.984	(1.029)	592328	100.858	100.858
26 2-Methylphenol	108	6.031	6.037	(1.037)	467033	95.5244	95.5244
27 1H-Indene	116	6.063	6.064	(1.042)	917329	97.0911	97.0911
28 2,2'-oxybis(1-chloropropane)	45	6.042	6.048	(1.039)	653601	101.398	101.398
29 4-Methylphenol	108	6.176	6.188	(1.062)	499646	100.472	100.472
30 N-nitrosodi-n-propylamine	70	6.187	6.198	(1.064)	380618	103.844	103.844
32 Acetophenone	105	6.203	6.209	(1.066)	688212	96.8680	96.8680
33 Hexachloroethane	117	6.299	6.300	(1.083)	244228	104.462	104.462
37 Nitrobenzene	77	6.374	6.381	(1.096)	573344	102.036	102.036
40 Isophorone	82	6.589	6.601	(0.935)	963601	100.299	100.299
41 2-Nitrophenol	139	6.675	6.682	(0.947)	307423	103.586	103.586
42 2,4-Dimethylphenol	107	6.686	6.692	(0.949)	525377	102.686	102.686
43 Bis(2-chloroethoxy)methane	93	6.772	6.778	(0.961)	602028	102.735	102.734
45 Benzoic acid	122	6.809	6.837	(0.966)	391376	108.898	108.898
46 2,4-Dichlorophenol	162	6.900	6.907	(0.979)	445208	99.4657	99.4657
47 1,2,4-Trichlorobenzene	180	6.981	6.988	(0.991)	504415	100.124	100.124
50 Naphthalene	128	7.072	7.073	(1.004)	1542348	97.1905	97.1905
51 4-Chloroaniline	127	7.121	7.122	(1.011)	637809	95.3644	95.3644
52 Hexachlorobutadiene	225	7.158	7.159	(1.016)	282548	100.360	100.360
59 4-Chloro-3-methylphenol	107	7.582	7.594	(1.076)	462391	100.337	100.337
62 2-Methylnaphthalene	142	7.749	7.750	(1.100)	1025900	97.4581	97.4581
64 1-Methylnaphthalene	142	7.851	7.852	(1.114)	967296	91.4192	91.4192
63 Hexachlorocyclopentadiene	237	7.883	7.884	(0.900)	300056	99.6496	99.6496
67 2,4,6-Trichlorophenol	196	8.028	8.034	(0.917)	310170	107.147	107.147
68 2,4,5-Trichlorophenol	196	8.071	8.072	(0.922)	354017	105.757	105.757
71 2-Chloronaphthalene	162	8.237	8.244	(0.941)	946687	100.097	100.097
74 2-Nitroaniline	65	8.344	8.351	(0.953)	290005	106.249	106.249
76 Dimethyl phthalate	163	8.479	8.480	(0.968)	1085983	99.0392	99.0392
79 2,6-Dinitrotoluene	165	8.554	8.560	(0.977)	250373	105.525	105.524
81 Acenaphthylene	152	8.634	8.641	(0.986)	1440906	94.5886	94.5886
82 3-Nitroaniline	138	8.731	8.737	(0.997)	279324	103.056	103.056
84 Acenaphthene	153	8.790	8.791	(1.004)	967276	97.0648	97.0648
85 2,4-Dinitrophenol	184	8.817	8.823	(1.007)	167149	100.913	100.913
86 4-Nitrophenol	109	8.865	8.877	(1.012)	144905	102.958	102.958
87 2,4-Dinitrotoluene	165	8.924	8.931	(1.019)	308131	103.096	103.096
88 Dibenzofuran	168	8.940	8.947	(1.021)	1300083	98.3796	98.3796
93 Diethyl phthalate	149	9.096	9.102	(1.039)	953440	97.5126	97.5126
95 4-Chlorophenyl phenyl ether	204	9.214	9.220	(1.052)	522914	97.9908	97.9908
96 Fluorene	166	9.241	9.242	(1.055)	1084334	96.0972	96.0972
97 4-Nitroaniline	138	9.278	9.296	(1.059)	239912	101.583	101.582
99 4,6-Dinitro-2-methylphenol	198	9.284	9.290	(1.060)	184038	97.4074	97.4074

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/ml)	FINAL ( ug/L)
101 N-nitrosodiphenylamine	169	9.321	9.328	(1.064)	790225	106.305	106.304
102 Azobenzene	77	9.354	9.360	(1.068)	1014272	105.494	105.494
108 4-Bromophenyl phenyl ether	248	9.633	9.634	(0.961)	280189	102.686	102.686
110 Hexachlorobenzene	284	9.697	9.704	(0.967)	258512	103.139	103.139
113 Pentachlorophenol	266	9.858	9.865	(0.983)	162185	120.177	120.177
118 Phenanthrene	178	10.041	10.047	(1.002)	1310457	93.4590	93.4590
122 Anthracene	178	10.084	10.090	(1.006)	1348336	95.6692	95.6692
123 Carbazole	167	10.212	10.214	(1.019)	1143817	99.8987	99.8987
125 Di-n-butyl phthalate	149	10.400	10.401	(1.037)	1362384	102.104	102.104
130 Fluoranthene	202	10.991	10.992	(1.096)	1261325	93.1964	93.1964
131 Benzidine	184	11.077	11.072	(0.910)	126590	94.8104	94.8104
132 Pyrene	202	11.184	11.180	(0.919)	1184383	104.692	104.692
137 Butyl benzyl phthalate	149	11.603	11.593	(0.954)	449309	112.668	112.668
140 3,3'-Dichlorobenzidine	252	12.113	12.098	(0.996)	313593	103.197	103.197
141 Benzo(a)anthracene	228	12.155	12.146	(0.999)	920121	99.3747	99.3747
144 Chrysene	228	12.193	12.184	(1.002)	970016	110.608	110.608
143 Bis(2-ethylhexyl) phthalate	149	12.021	12.006	(0.988)	606092	117.615	117.615
146 Di-n-octyl phthalate	149	12.553	12.538	(1.032)	895541	106.913	106.913
147 Benzo(b)fluoranthene	252	13.149	13.139	(0.967)	759105	109.990	109.990
148 Benzo(k)fluoranthene	252	13.175	13.166	(0.969)	847265	114.059	114.059
150 Benzo(a)pyrene	252	13.530	13.520	(0.995)	701757	112.133	112.133
155 Indeno(1,2,3-cd)pyrene	276	15.086	15.087	(1.110)	692673	114.185	114.185
156 Dibenzo(a,h)anthracene	278	15.081	15.077	(1.109)	664421	120.938	120.938
157 Benzo(g,h,i)perylene	276	15.559	15.560	(1.145)	591393	113.567	113.567
168 Methyl Styrene	118	5.542	5.544	(0.953)	559045	97.2177	97.2177
202 Alachlor	188	10.261	10.262	(1.024)	174391	104.606	104.606
204 Atrazine	200	9.740	9.741	(0.972)	92178	394.985	394.985 (AR)
205 Caprolactam	55	7.507	7.535	(1.066)	200181	108.006	108.006
207 2,3-Dichlorobenzeneamine	161	8.038	8.045	(0.918)	529431	98.4337	98.4337
206 Decane	43	5.601	5.603	(0.963)	490361	99.2388	99.2388
213 n-Dodecane	43	6.954	6.955	(0.794)	473943	99.9119	99.9119
210 Tetradecane	43	8.114	8.120	(0.926)	460460	99.5652	99.5652
209 Hexadecane	57	9.053	9.059	(1.034)	6510	1.09718	1.09718 (a)
208 n-Octadecane	85	9.815	9.816	(0.979)	260926	101.365	101.365
211 n-Eicosane	43	10.459	10.460	(1.194)	380982	101.482	101.482
212 n-docosane	43	11.044	11.040	(1.261)	348261	119.253	119.253

# QC Flag Legend

- a - Target compound detected but, quantitated amount Below Limit Of Quantitation(BLOQ).
- A - Target compound detected but, quantitated amount exceeded maximum amount.
- R - Spike/Surrogate failed recovery limits.

STL-Denver

INTERNAL STANDARD COMPOUNDS  
AREA AND RT SUMMARY

Instrument ID: Y.i	Calibration Date: 27-MAY-2004
Lab File ID: y1728.d	Calibration Time: 19:53
Lab Smp Id: HSL 0100 SSV	Client Smp ID: HSL_0100 SSV
Analysis Type: SV	Level: LOW
Quant Type: ISTD	Sample Type: WATER
Operator: todear	
Method File: /chem/Y.i/052704.b/8270C.m	
Misc Info:	

Test Mode: Use Last Continuing Calibrator.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
22 1,4-Dichlorobenze	162127	81064	324254	171946	6.06
49 Naphthalene-d8	630966	315483	1261932	670437	6.26
83 Acenaphthene-d10	368193	184096	736386	381316	3.56
117 Phenanthrene-d10	591673	295836	1183346	600805	1.54
142 Chrysene-d12	385856	192928	771712	341670	-11.45
151 Perylene-d12	295607	147804	591214	238732	-19.24

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
22 1,4-Dichlorobenze	5.82	5.32	6.32	5.82	-0.03
49 Naphthalene-d8	7.05	6.55	7.55	7.05	-0.02
83 Acenaphthene-d10	8.76	8.26	9.26	8.76	-0.02
117 Phenanthrene-d10	10.02	9.52	10.52	10.02	0.04
142 Chrysene-d12	12.16	11.66	12.66	12.17	0.03
151 Perylene-d12	13.59	13.09	14.09	13.59	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.

STL-Denver

RECOVERY REPORT

Client Name:  
Sample Matrix: LIQUID  
Lab Smp Id: HSL\_0100 SSV  
Level: LOW  
Data Type: MS DATA  
SpikeList File: HSLSSV.spk  
Sublist File: HSLSSV.sub  
Method File: /chem/Y.i/052704.b/8270C.m  
Misc Info:

Client SDG: 052704  
Fraction: SV  
Client Smp ID: HSL\_0100 SSV  
Operator: todear  
SampleType: SSV  
Quant Type: ISTD

SPIKE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
4 N-Nitrosodimethyla	100.000	101.846	101.85	75-125
15 Phenol	100.000	101.133	101.13	75-125
18 Bis(2-chloroethyl)	100.000	103.617	103.62	75-125
20 2-Chlorophenol	100.000	100.785	100.78	75-125
21 1,3-Dichlorobenzen	100.000	99.9939	99.99	75-125
23 1,4-Dichlorobenzen	100.000	98.9567	98.96	75-125
25 1,2-Dichlorobenzen	100.000	100.858	100.86	75-125
28 2,2'-oxybis(1-chlo	100.000	101.398	101.40	75-125
30 N-nitrosodi-n-prop	100.000	103.844	103.84	75-125
33 Hexachloroethane	100.000	104.462	104.46	75-125
37 Nitrobenzene	100.000	102.036	102.04	75-125
40 Isophorone	100.000	100.299	100.30	75-125
41 2-Nitrophenol	100.000	103.586	103.59	75-125
42 2,4-Dimethylphenol	100.000	102.686	102.69	75-125
43 Bis(2-chloroethoxy	100.000	102.734	102.73	75-125
46 2,4-Dichlorophenol	100.000	99.4657	99.47	75-125
47 1,2,4-Trichloroben	100.000	100.124	100.12	75-125
50 Naphthalene	100.000	97.1905	97.19	75-125
52 Hexachlorobutadien	100.000	100.360	100.36	75-125
59 4-Chloro-3-methylp	100.000	100.337	100.34	75-125
63 Hexachlorocyclopen	100.000	99.6496	99.65	75-125
67 2,4,6-Trichlorophe	100.000	107.147	107.15	75-125
71 2-Chloronaphthalen	100.000	100.097	100.10	75-125
76 Dimethyl phthalate	100.000	99.0392	99.04	75-125
79 2,6-Dinitrotoluene	100.000	105.524	105.52	75-125
81 Acenaphthylene	100.000	94.5886	94.59	75-125
84 Acenaphthene	100.000	97.0648	97.06	75-125
85 2,4-Dinitrophenol	100.000	100.913	100.91	75-125
86 4-Nitrophenol	100.000	102.958	102.96	75-125
87 2,4-Dinitrotoluene	100.000	103.096	103.10	75-125
93 Diethyl phthalate	100.000	97.5126	97.51	75-125
95 4-Chlorophenyl phe	100.000	97.9908	97.99	75-125
96 Fluorene	100.000	96.0972	96.10	75-125



SPIKE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
99 4,6-Dinitro-2-meth	100.000	97.4074	97.41	75-125
101 N-nitrosodiphenyla	100.000	106.304	106.30	75-125
102 Azobenzene	100.000	105.494	105.49	75-125
108 4-Bromophenyl phen	100.000	102.686	102.69	75-125
110 Hexachlorobenzene	100.000	103.139	103.14	75-125
113 Pentachlorophenol	100.000	120.177	120.18	75-125
118 Phenanthrene	100.000	93.4590	93.46	75-125
122 Anthracene	100.000	95.6692	95.67	75-125
125 Di-n-butyl phthala	100.000	102.104	102.10	75-125
130 Fluoranthene	100.000	93.1964	93.20	75-125
131 Benzidine	100.000	94.8104	94.81	45-155
132 Pyrene	100.000	104.692	104.69	75-125
137 Butyl benzyl phtha	100.000	112.668	112.67	75-125
140 3,3'-Dichlorobenzi	100.000	103.197	103.20	75-125
141 Benzo(a)anthracene	100.000	99.3747	99.37	75-125
144 Chrysene	100.000	110.608	110.61	75-125
143 Bis(2-ethylhexyl)	100.000	117.615	117.62	75-125
146 Di-n-octyl phthala	100.000	106.913	106.91	75-125
147 Benzo(b)fluoranthene	100.000	109.990	109.99	75-125
148 Benzo(k)fluoranthene	100.000	114.059	114.06	75-125
150 Benzo(a)pyrene	100.000	112.133	112.13	75-125
155 Indeno(1,2,3-cd)py	100.000	114.185	114.19	75-125
156 Dibenz(a,h)anthrac	100.000	120.938	120.94	75-125
157 Benzo(g,h,i)perylene	100.000	113.567	113.57	75-125
5 Pyridine	100.000	110.629	110.63	75-125
16 Aniline	100.000	101.156	101.16	75-125
24 Benzyl alcohol	100.000	103.278	103.28	75-125
26 2-Methylphenol	100.000	95.5244	95.52	75-125
29 4-Methylphenol	100.000	100.472	100.47	75-125
45 Benzoic acid	100.000	108.898	108.90	75-125
51 4-Chloroaniline	100.000	95.3644	95.36	75-125
62 2-Methylnaphthalene	100.000	97.4581	97.46	75-125
68 2,4,5-Trichlorophe	100.000	105.757	105.76	75-125
74 2-Nitroaniline	100.000	106.249	106.25	75-125
82 3-Nitroaniline	100.000	103.056	103.06	75-125
88 Dibenzofuran	100.000	98.3796	98.38	75-125
97 4-Nitroaniline	100.000	101.582	101.58	75-125
123 Carbazole	100.000	99.8987	99.90	75-125
202 Alachlor	100.000	104.606	104.61	75-125
204 Atrazine	100.000	394.985	394.98*	75-125
205 Caprolactam	100.000	108.006	108.01	75-125
207 2,3-Dichlorobenzene	100.000	98.4337	98.43	75-125
206 Decane	100.000	99.2388	99.24	75-125
213 n-Dodecane	100.000	99.9119	99.91	75-125
210 Tetradecane	100.000	99.5652	99.57	75-125
208 n-Octadecane	100.000	101.365	101.36	75-125
211 n-Eicosane	100.000	101.482	101.48	75-125

*narrate*

SPIKE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
212 n-docosane	100.000	119.253	119.25	75-125

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
\$ 36 Nitrobenzene-d5	100.000	100.862	100.86	75-125
\$ 70 2-Fluorobiphenyl	100.000	96.7306	96.73	75-125
\$ 133 Terphenyl-d14	100.000	118.582	118.58	75-125
\$ 10 2-Fluorophenol	150.000	153.183	102.12	75-125
\$ 14 Phenol-d5	150.000	148.695	99.13	75-125
\$ 103 2,4,6-Tribromophen	150.000	165.106	110.07	75-125

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TENTATIVELY IDENTIFIED COMPOUNDS

Client Name:	Client SDG: 052704
Lab Smp Id: HSL_0100 SSV	Client Smp ID: HSL_0100 SSV
Operator : todear	Sample Date: 30-MAR-1998
Sample Location:	Sample Point:
Sample Matrix: WATER	Date Received: 31-MAR-1998 00:00
Analysis Type: SV	Level: LOW

Number TICs found: 0	CONCENTRATION UNITS: (ug/L or ug/KG) ug/L
----------------------	--

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
=====	=====	=====	=====	=====

Data File: /chem/Y.i/052704.b/y1728.d

Date : 27-MAY-2004 21:40

Client ID: HSL\_0100 SSV

Sample Info: HSL\_0100 SSV,BNA1346,P:051104,E:113004

Volume Injected (uL): 0.5

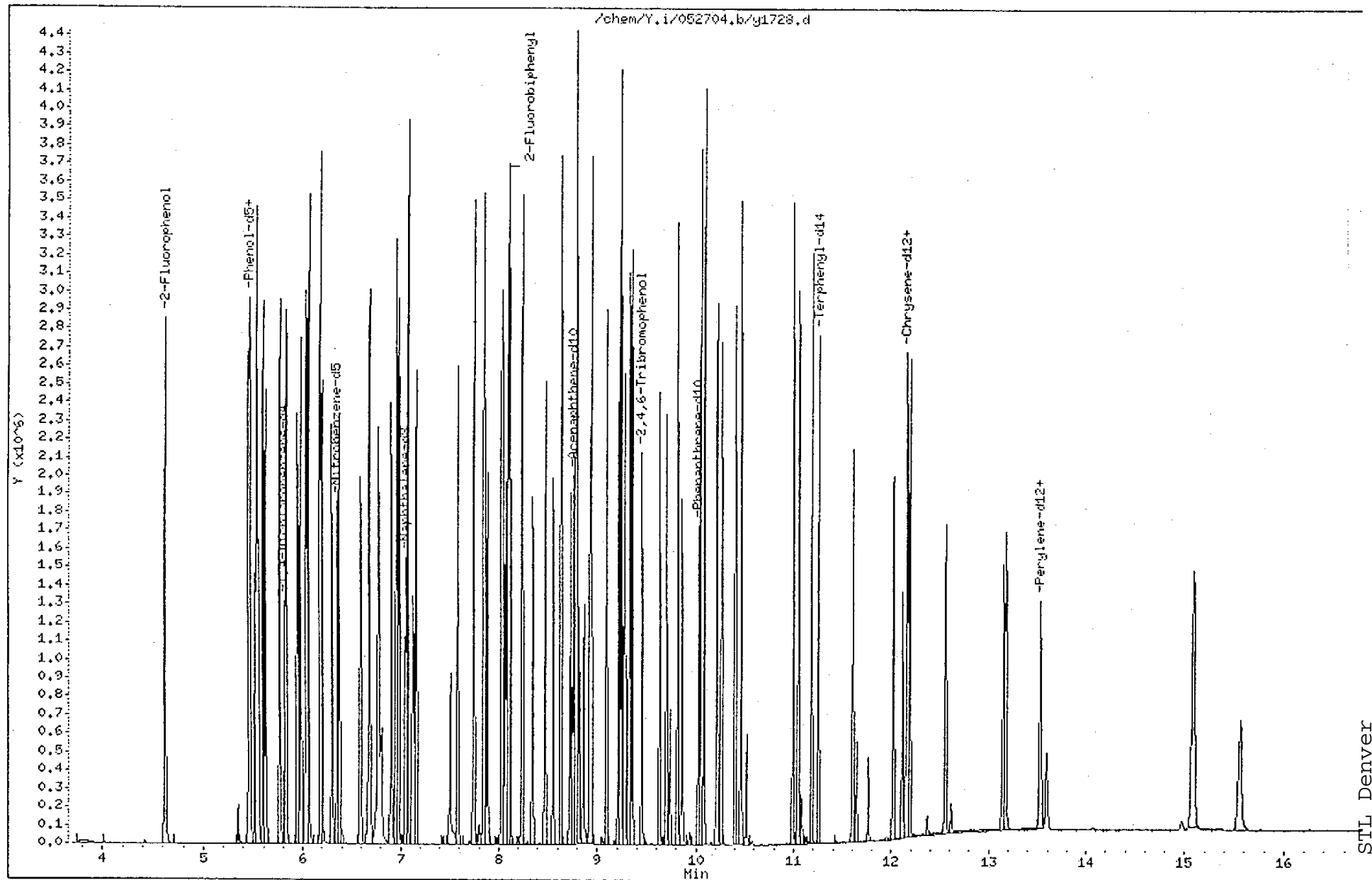
Column phase: Rtx-5ms 30m 0.5um

Instrument: Y.i

Operator: todear

Column diameter: 0.25

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## GC/MS Initial Calibration Review Checklist

STL Denver

Instrument ID and Date:

Y-051304.6

Check Method Used: Analysis

☐ 625☒ 8270☐ Other SVApp☐ 524.2☐ 624☐ 8260B☐ Other VOA

VOA Preparation

☐ 5mL☐ 20mL☐ 5035 Low☐ 5035 High☐ 5030 Low☐ 5030 High

Review Items	Level 1			Level 2	Comments
	Yes	No	N/A		
Initial Calibration					
1. BFB/DFTPP meets criteria?	///			✓	
2. ICAL date and instrument ID verified?	///			✓	
3. Sufficient number of calibration points used?	///			✓	
4. Reasons for removal of points documented?	///			✓	some pts below R.L. removed
5. %RSD or correlation coefficient within method limits?	///			✓	
6. If RRF used for ICAL, were all compounds within 15% RSD?	///			✓	List all exceptions below (cpd & RSD)
7. Response factors meet criteria?	///			✓	
8. Isomeric pairs checked for correct peak assignment?	///			✓	
9. Data checked for detector saturation?	///			✓	
10. Standards traceability properly documented?	///			✓	
11. Manual integrations documented and checked?	///			✓	
12. 2 <sup>nd</sup> source ICV recovery 75-125% for DoD projects, 65-135% (±55% of expected for poor performers) for non-DoD?	///			✓	

1st Level Reviewer:

R. Gu

Date:

5/14/04

2nd Level Reviewer:

DRV

Date:

05-14-04715% RSD1,4-naphthoquinone = 16.6%2nd source usedmethyl methanesulphonate = 159.04%  
p-fluorophenylamine = 41.26%

Date : 13-MAY-2004 10:56

Client ID: DFTPP

Instrument: Y.i

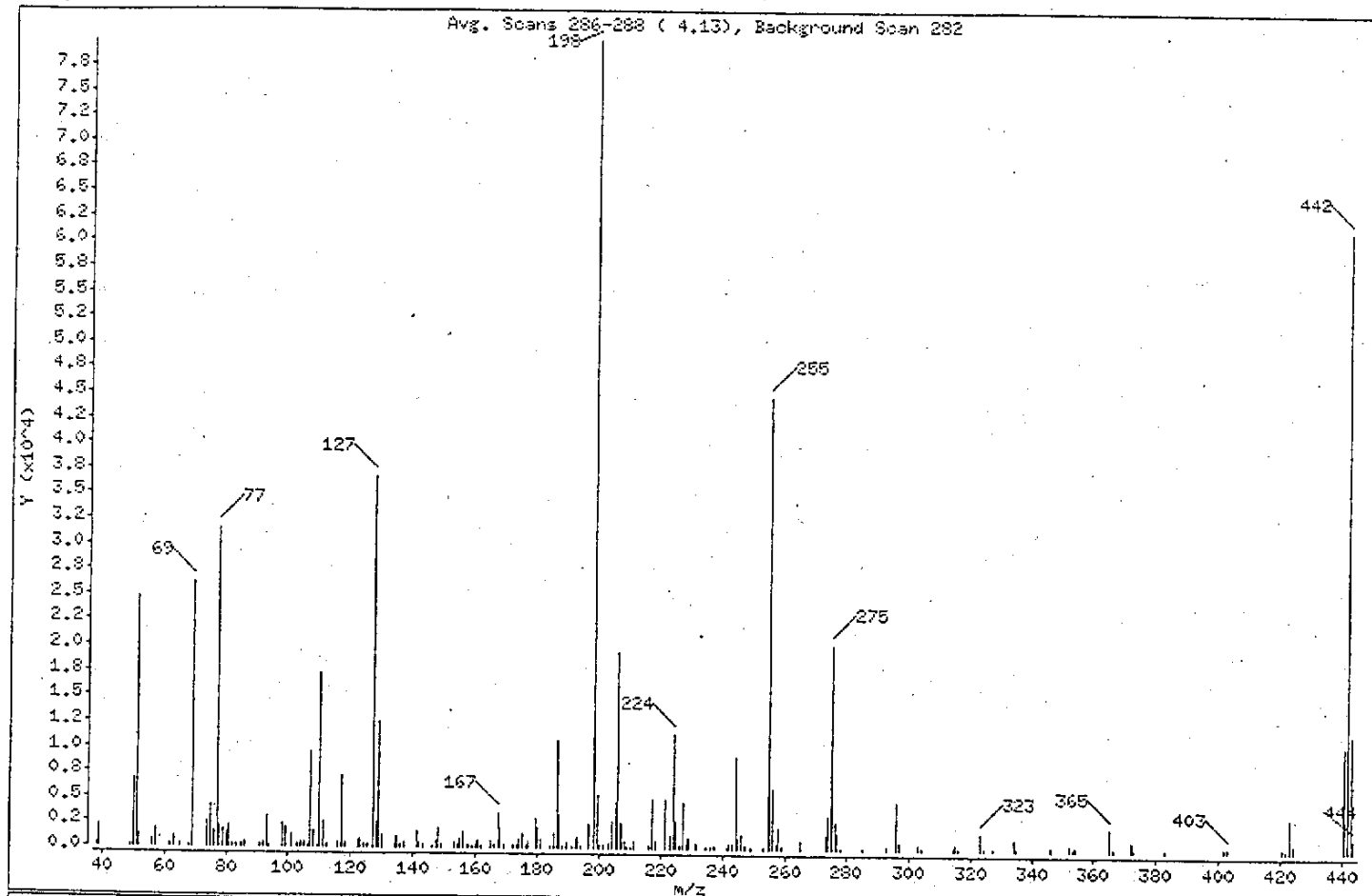
Sample Info: 25NG00 DFTPP,BNA1S12,P041304 E041305

Operator: todear

Column phase: Rtx-Ems

Column diameter: 0.25

1 dftpp



m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 60.00% of mass 198	30.96
68	Less than 2.00% of mass 69	0.27 ( 0.81)
69	Mass 69 relative abundance	32.76
79	Less than 2.00% of mass 69	0.00 ( 0.00)
127	40.00 - 60.00% of mass 198	45.95
197	Less than 1.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	6.67
275	10.00 - 30.00% of mass 198	25.24
365	Greater than 1.00% of mass 198	2.75
441	Present, but less than mass 443	13.21
442	40.00 - 100.00% of mass 198	76.76
443	17.00 - 23.00% of mass 442	14.42 ( 18.79)

Data File: /chem/Y.i/051304.b/y1387.d

Page 3

Date : 13-MAY-2004 10:56

Client ID: DFTPP

Instrument: Y.i

Sample Info: 25NGOC DFTPP,BNA1512,P041904 E041905

Operator: todear

Column phase: Rtx-5ms

Column diameter: 0.25

Data File: y1387.d

Spectrum: Avg. Scans 286-288 ( 4.13), Background Scan 282

Location of Maximum: 198.00

Number of points: 183

m/z	Y	m/z	Y	m/z	Y	m/z	Y
38.00	331	122.00	677	187.00	3348	255.00	44544
39.00	2162	123.00	935	188.00	240	256.00	6029
49.00	102	124.00	329	189.00	497	257.00	596
50.00	6742	125.00	358	191.00	266	258.00	2156
51.00	24736	127.00	36712	192.00	923	259.00	327
52.00	1317	128.00	2642	193.00	1104	265.00	957
56.00	644	129.00	12409	194.00	124	273.00	1386
57.00	1877	130.00	1258	196.00	2453	274.00	3311
61.00	323	134.00	347	198.00	79896	275.00	20160
62.00	383	135.00	1161	199.00	5328	276.00	2778
63.00	1038	136.00	336	200.00	459	277.00	1650
65.00	424	137.00	556	201.00	441	278.00	223
68.00	212	141.00	1627	203.00	498	285.00	128
69.00	28176	142.00	531	204.00	2703	293.00	420
74.00	2570	143.00	363	205.00	4633	296.00	4849
75.00	4258	146.00	245	206.00	19560	297.00	691
76.00	1580	147.00	815	207.00	2503	303.00	613
77.00	31520	148.00	1966	208.00	738	304.00	105
78.00	2283	149.00	347	209.00	117	314.00	119
79.00	1802	153.00	528	210.00	149	315.00	499
80.00	1414	154.00	365	211.00	754	316.00	270
81.00	2171	155.00	972	216.00	383	323.00	1723
82.00	423	156.00	1608	217.00	5017	324.00	145
83.00	367	157.00	284	218.00	786	327.00	193
85.00	340	158.00	280	221.00	4939	334.00	1098
86.00	495	159.00	230	223.00	1199	335.00	213
91.00	440	160.00	439	224.00	11433	346.00	306
92.00	491	161.00	820	225.00	2761	352.00	535
93.00	3089	162.00	228	226.00	291	353.00	250
94.00	129	165.00	723	227.00	4530	354.00	436
98.00	2350	166.00	440	228.00	528	365.00	2198
99.00	2097	167.00	3558	229.00	1085	366.00	169
101.00	1258	168.00	1930	231.00	487	372.00	827
103.00	363	169.00	328	234.00	128	373.00	143
104.00	636	172.00	311	235.00	274	383.00	134

Data File: /chem/Y.i/051304.b/y1387.d

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Date : 13-MAY-2004 10:56

Client ID: DFTPP

Instrument: Y.i

Sample Info: 25NGOC DFTPP,BNA1512,P041904 E041905

Operator: todean

Column phase: Rtx-5ms

Column diameter: 0.25

Data File: y1387.d

Spectrum: Avg. Scans 286-288 ( 4.13), Background Scan 282

Location of Maximum: 198.00

Number of points: 183

m/z	Y	m/z	Y	m/z	Y	m/z	Y
105.00	580	173.00	375	236.00	132	402.00	278
106.00	133	174.00	923	237.00	381	403.00	454
107.00	9616	175.00	1459	241.00	228	421.00	416
108.00	1666	176.00	399	242.00	510	422.00	186
109.00	139	177.00	736	243.00	635	423.00	3370
110.00	12184	179.00	2866	244.00	9254	424.00	753
111.00	2494	180.00	1974	245.00	1154	441.00	10556
112.00	346	181.00	906	246.00	1522	442.00	61320
116.00	517	184.00	100	247.00	313	443.00	11524
117.00	7224	185.00	1424	249.00	153	444.00	1197
118.00	469	186.00	10587	253.00	113		



Data File: /chem/Y.i/051304.b/y1387.d

Page 1

Date : 13-MAY-2004 10:56

Client ID: DFTPP

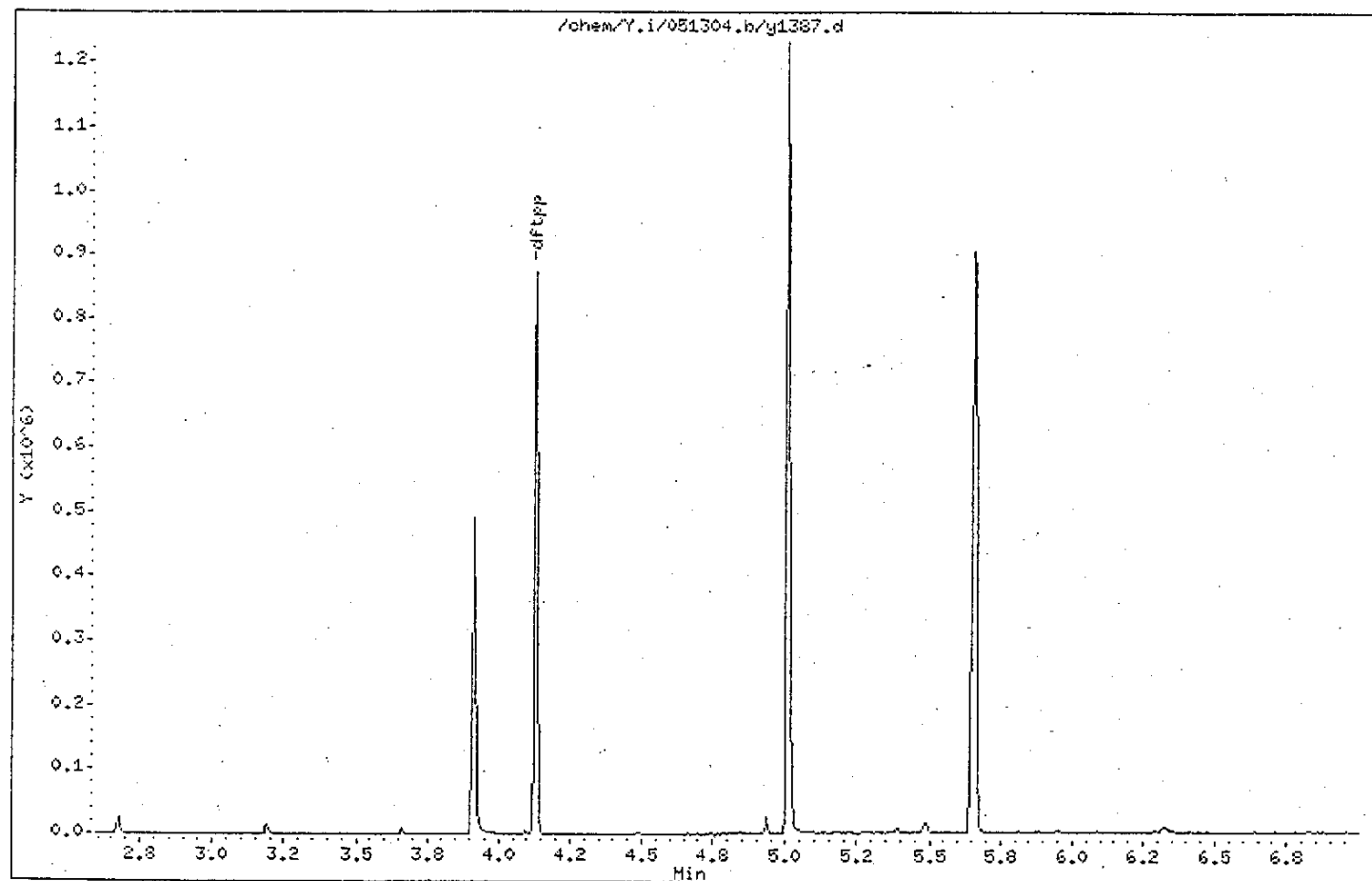
Instrument: Y.i

Sample Info: 25NCOO DFTPP, BNA1512, P041904 E041905

Operator: todear

Column phase: Rtx-5ms

Column diameter: 0.25

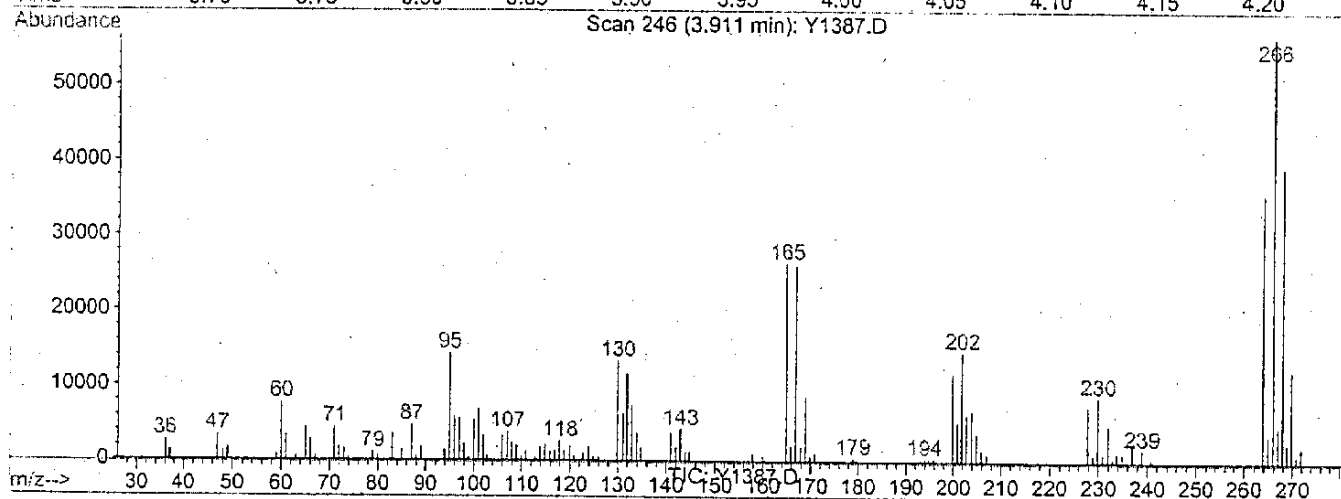
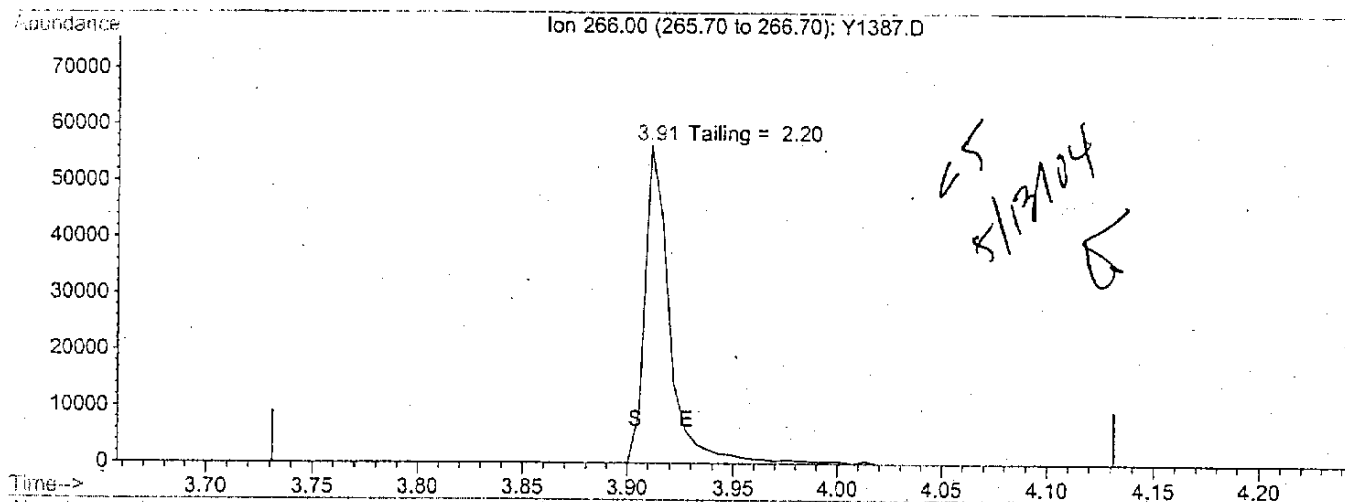


# Quantitation Report

Data File : C:\HPCHEM\1\DATA\051304.B\Y1387.D  
 Acq On : 13 May 2004 10:56 am  
 Sample : 25NGOC DFTPP, BNA1512, P041904 E041905  
 Misc :  
 Quant Time: May 13 11:27 19104

Vial: 2  
 Operator: todear  
 Inst : GC/MS Ins  
 Multiplr: 1.00  
 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\DFTPPB.M (RTE Integrator)  
 Title :  
 Last Update : Sat May 08 17:19:40 2004  
 Response via : Single Level Calibration



(1) Pentachlorophenol

3.91min 0.00ug/ml

response 46422

Ion	Exp%	Act%
266.00	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

# Quantitation Report

Data File : C:\HPCHEM\1\DATA\051304.B\Y1387.D

Vial: 2

Acq On : 13 May 2004 10:56 am

Operator: todear

Sample : 25NGOC DFTPP, BNA1512, P041904 E041905

Inst : GC/MS Ins

Misc :

Multiplr: 1.00

Quant Time: May 13 11:27 19104

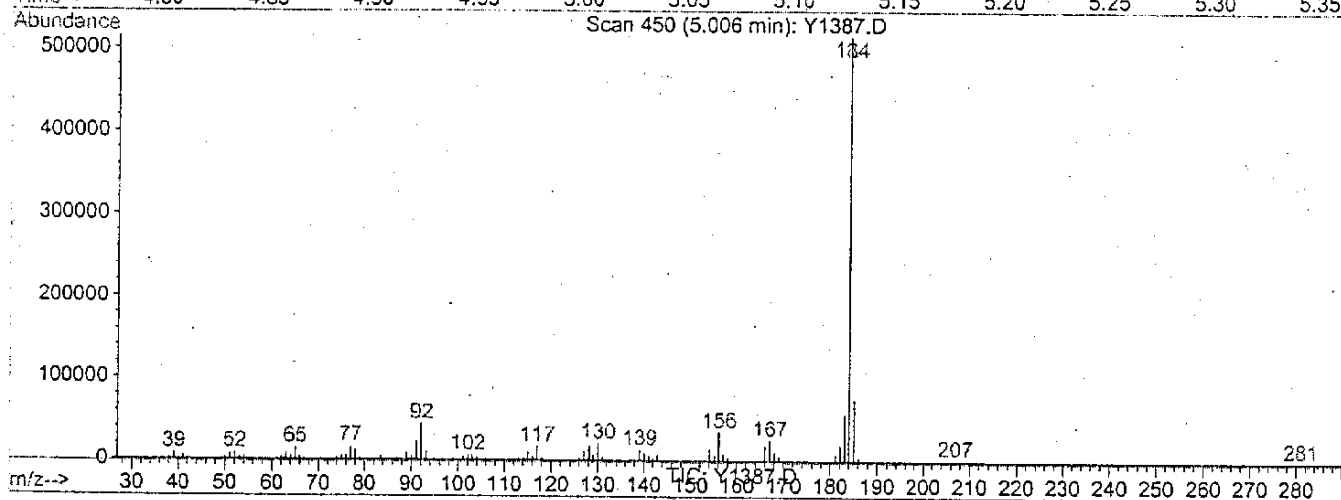
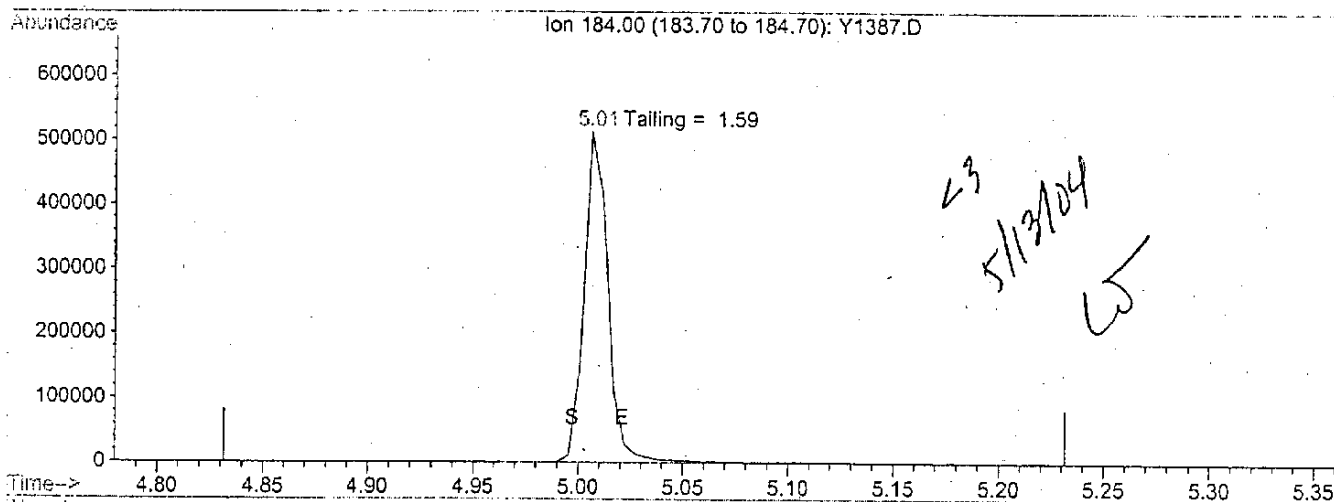
Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\DFTPPB.M (RTE Integrator)

Title :

Last Update : Sat May 08 17:19:40 2004

Response via : Single Level Calibration



(3) Benzidine

5.01min 0.00ug/ml

response 413635

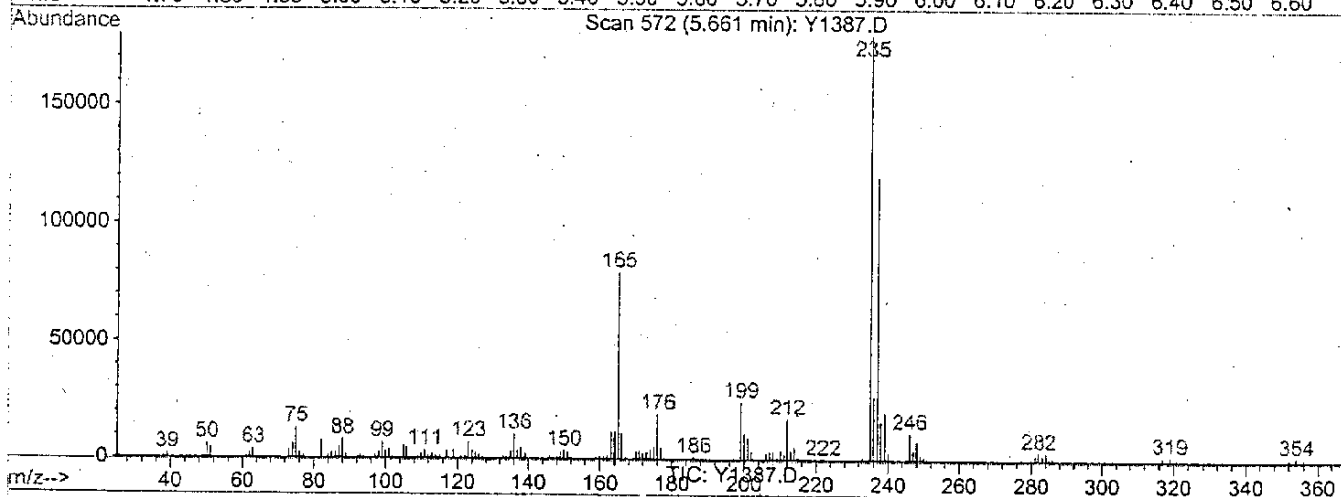
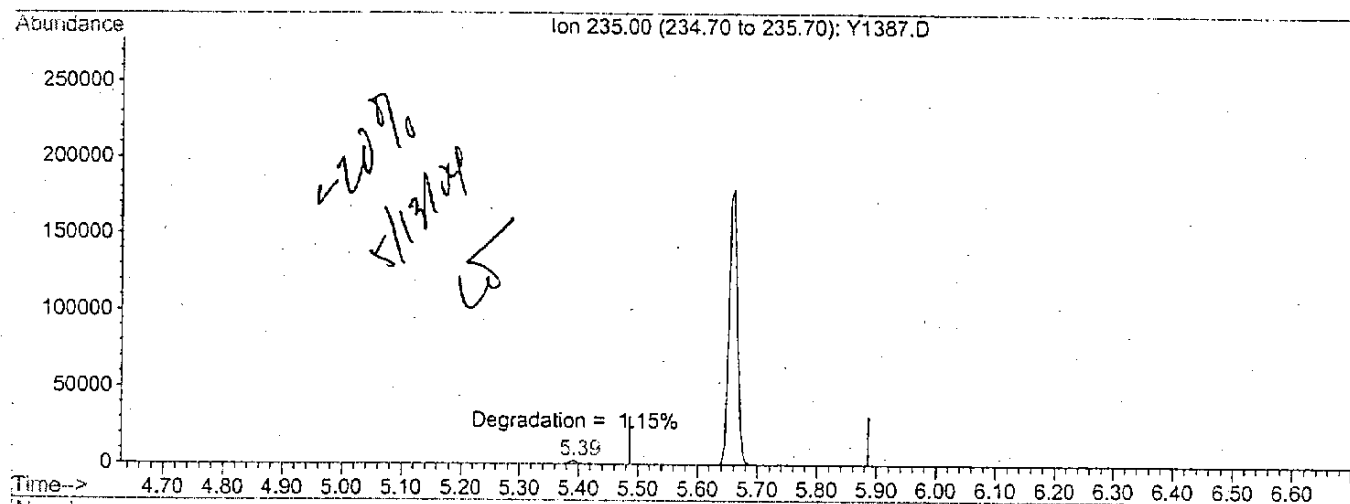
Ion	Exp%	Act%
184.00	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

# Quantitation Report

Data File : C:\HPCHEM\1\DATA\051304.B\Y1387.D  
 Acq On : 13 May 2004 10:56 am  
 Sample : 25NGOC DFTPP, BNA1512, P041904 E041905  
 Misc :  
 Quant Time: May 13 11:27 19104

Vial: 2  
 Operator: todear  
 Inst : GC/MS Ins  
 Multiplr: 1.00  
 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\DFTPPB.M (RTE Integrator)  
 Title :  
 Last Update : Sat May 08 17:19:40 2004  
 Response via : Single Level Calibration



(4) DDT (std)

5.66min 0.00ug/ml

response 182232

Ion	Exp%	Act%
235.00	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

Report Date: 14-May-2004 10:29

### Calibration History

Method : /chem/Y.i/051304.b/8270C.m  
Start Cal Date: 06-MAY-2004 10:56  
End Cal Date : 13-MAY-2004 17:28

#### Initial Calibration

Injection Date	Sublist	Calibration File
Cal Level: 1 , Cal Amount: 5.00000		
06-MAY-2004 10:56	1-HSL	/chem/Y.i/050604.b/y1181.d
Cal Level: 2 , Cal Amount: 10.00000		
13-MAY-2004 15:15	2-AP9std	/chem/Y.i/051304.b/y1397.d
13-MAY-2004 11:44	4-CUST	/chem/Y.i/051304.b/y1389.d
06-MAY-2004 11:24	1-HSL	/chem/Y.i/050604.b/y1182.d
Cal Level: 3 , Cal Amount: 20.00000		
13-MAY-2004 15:41	2-AP9std	/chem/Y.i/051304.b/y1398.d
13-MAY-2004 12:10	4-CUST	/chem/Y.i/051304.b/y1390.d
06-MAY-2004 11:53	1-HSL	/chem/Y.i/050604.b/y1183.d
Cal Level: 4 , Cal Amount: 50.00000		
13-MAY-2004 16:08	2-AP9std	/chem/Y.i/051304.b/y1399.d
13-MAY-2004 12:36	4-CUST	/chem/Y.i/051304.b/y1391.d
06-MAY-2004 12:23	1-HSL	/chem/Y.i/050604.b/y1184.d
Cal Level: 5 , Cal Amount: 80.00000		
13-MAY-2004 14:48	2-AP9std	/chem/Y.i/051304.b/y1396.d
13-MAY-2004 11:18	4-CUST	/chem/Y.i/051304.b/y1388.d
06-MAY-2004 12:52	1-HSL	/chem/Y.i/050604.b/y1185.d
Cal Level: 6 , Cal Amount: 120.00000		
13-MAY-2004 16:35	2-AP9std	/chem/Y.i/051304.b/y1400.d
13-MAY-2004 13:03	4-CUST	/chem/Y.i/051304.b/y1392.d
06-MAY-2004 13:21	1-HSL	/chem/Y.i/050604.b/y1186.d
Cal Level: 7 , Cal Amount: 160.00000		
13-MAY-2004 17:01	2-AP9std	/chem/Y.i/051304.b/y1401.d
13-MAY-2004 13:29	4-CUST	/chem/Y.i/051304.b/y1393.d
06-MAY-2004 13:50	1-HSL	/chem/Y.i/050604.b/y1187.d

Cal Level: 8 , Cal Amount: 200.00000		
13-MAY-2004 17:28	2-AP9std	/chem/Y.i/051304.b/y1402.d
13-MAY-2004 13:55	4-CUST	/chem/Y.i/051304.b/y1394.d
06-MAY-2004 14:19	1-HSL	/chem/Y.i/050604.b/y1188.d

# Continuing Calibration

Ccal Level Mode: GLOBAL LEVEL 5

Ccal Level: 5 , Ccal Amount: 80.0000		
13-MAY-2004 14:48	2-AP9std	/chem/Y.i/051304.b/y1396.d
Ccal Level: 5 , Ccal Amount: 80.0000		
13-MAY-2004 11:18	4-CUST	/chem/Y.i/051304.b/y1388.d

Report Date : 14-May-2004 10:35

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## STL-Denver

## INITIAL CALIBRATION DATA

Start Cal Date : 06-MAY-2004 10:56  
 End Cal Date : 13-MAY-2004 17:28  
 Quant Method : ISTD  
 Target Version : 3.50  
 Integrator : HP RTE  
 Method file : /chem/Y.i/051304.b/8270C.m  
 Cal Date : 14-May-2004 10:35 todear

## Calibration File Names:

Level 1: /chem/Y.i/050604.b/y1181.d  
 Level 2: /chem/Y.i/051304.b/y1397.d  
 Level 3: /chem/Y.i/051304.b/y1398.d  
 Level 4: /chem/Y.i/051304.b/y1399.d  
 Level 5: /chem/Y.i/051304.b/y1396.d  
 Level 6: /chem/Y.i/051304.b/y1400.d  
 Level 7: /chem/Y.i/051304.b/y1401.d  
 Level 8: /chem/Y.i/051304.b/y1402.d

Compound	5	10	20	50	80	120	Curve	Coefficients		%RSD or R <sup>2</sup>
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6		b	m1	m2
	160	200								
	Level 7	Level 8								
7 2-Picoline	++++ 1.10510	1.19593 1.09669	1.19147	1.26915	1.12082	1.11265	AVRG		1.15597	
8 N-Nitrosomethylethylamine	++++ 0.55160	0.52002 0.56795	0.52286	0.58024	0.52967	0.53890	AVRG		0.54446	
9 Methyl methanesulfonate	++++ 0.32361	0.31455 0.31920	0.33005	0.36209	0.32984	0.32299	AVRG		0.32891	
11 N-Nitrosodiethylamine	++++ 0.53126	0.50664 0.53555	0.54431	0.59078	0.53684	0.52977	AVRG		0.53931	
13 Ethyl methanesulfonate	++++ 0.79238	0.82400 0.80080	0.83581	0.89143	0.79834	0.79383	AVRG		0.81951	

Report Date : 14-May-2004 10:35

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## STL-Denver

## INITIAL CALIBRATION DATA

Start Cal Date : 06-MAY-2004 10:56  
 End Cal Date : 13-MAY-2004 17:28  
 Quant Method : ISTD  
 Target Version : 3.50  
 Integrator : HP RTE  
 Method file : /chem/Y.i/051304.b/8270C.m  
 Cal Date : 14-May-2004 10:35 todear

Compound	5	10	20	50	80	120	Curve	Coefficients			%RSD or R <sup>2</sup>
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6		b	m1	m2	
	160 Level 7	200 Level 8									
19 Pentachloroethane	++++ 0.37041	0.39827 0.36010	0.40747	0.43878	0.39254	0.37521	AVRG		0.39183		6.77854
31 N-Nitrosopyrrolidine	++++ 0.52005	0.57264 0.53100	0.58947	0.61423	0.54577	0.52197	AVRG		0.55645		6.54849
34 N-Nitrosomorpholine	++++ 0.22035	0.23616 0.20266	0.25922	0.27614	0.24208	0.22937	AVRG		0.23800		10.23510
35 o-Toluidine	++++ 1.48402	2.00213 1.47014	1.89925	1.89157	1.64060	1.55170	AVRG		1.70563		12.94422
39 N-Nitrosopiperidine	++++ 0.14371	0.14324 0.14697	0.14734	0.16191	0.14881	0.14283	AVRG		0.14783		4.48066
44 O,O,O-Triethyl phosphorothio	++++ 0.15271	0.16622 0.15003	0.16976	0.18140	0.16328	0.15519	AVRG		0.16265		6.77732
48 a,a-Dimethylphenethylamine	++++ 0.62948	0.75761 0.69913	0.73330	0.74967	0.68168	0.58240	AVRG		0.69047		9.42263
53 2,6-Dichlorophenol	++++ 0.23471	0.25191 0.22791	0.26107	0.27746	0.25192	0.23862	AVRG		0.24908		6.81580
54 Hexachloropropene	++++ 0.16832	0.17361 0.15908	0.18083	0.19482	0.17827	0.17120	AVRG		0.17516		6.39043



Report Date : 14-May-2004 10:35

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## STL-Denver

## INITIAL CALIBRATION DATA

Start Cal Date : 06-MAY-2004 10:56  
 End Cal Date : 13-MAY-2004 17:28  
 Quant Method : ISTD  
 Target Version : 3.50  
 Integrator : HP RTE  
 Method file : /chem/Y.i/051304.b/8270C.m  
 Cal Date : 14-May-2004 10:35 todear

Compound	5	10	20	50	80	120	Curve	Coefficients		%RSD or R <sup>2</sup>
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6		b	m1	m2
	160	200								
	Level 7	Level 8								
57 N-Nitrosodi-n-butylamine	++++ 0.17621	0.18564 0.17850	0.19583	0.20694	0.18793	0.17574	AVRG		0.18668	6.15883
58 p-Phenylenediamine	++++ 0.23729	0.29084 0.25004	0.30632	0.32135	0.27928	0.23549	AVRG		0.27437	12.45059
61 Safrole	++++ 0.21808	0.25991 0.21522	0.26005	0.27100	0.23990	0.22390	AVRG		0.24115	9.43184
65 1,2,4,5-Tetrachlorobenzene	++++ 0.24865	0.31690 0.24016	0.31420	0.31483	0.27939	0.25772	AVRG		0.28169	11.94303
66 Isosafrole (#1)	++++ 0.31246	0.27156 0.30583	0.27949	0.32416	0.30007	0.31204	AVRG		0.30080	6.28300
72 Isosafrole (#2)	++++ 0.21364	0.23420 0.20584	0.24135	0.25379	0.22934	0.22444	AVRG		0.22894	7.10402
73 1-Chloronaphthalene	++++ 0.81509	1.09330 0.75578	1.01596	0.99528	0.90373	0.87840	AVRG		0.92251	12.88976
75 1,4-Naphthoquinone	++++ 0.19717	0.20942 0.17219	0.23274	0.27334	0.22237	0.17597	AVRG		0.21188	16.58490
78 1,4-Dinitrobenzene	++++ 0.15376	0.12195 0.16322	0.13968	0.16999	0.15769	0.15109	AVRG		0.15106	10.58659

Report Date : 14-May-2004 10:35

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## STL-Denver

## INITIAL CALIBRATION DATA

Start Cal Date : 06-MAY-2004 10:56  
 End Cal Date : 13-MAY-2004 17:28  
 Quant Method : ISTD  
 Target Version : 3.50  
 Integrator : HP RTE  
 Method file : /chem/Y.i/051304.b/8270C.m  
 Cal Date : 14-May-2004 10:35 todear

Compound	5	10	20	50	80	120	Curve	Coefficients			%RSD or R^2
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6		b	m1	m2	
	160 Level 7	200 Level 8									
80 1,3-Dinitrobenzene	++++ 0.17375	0.16429 0.18373	0.17595	0.20222	0.18619	0.17165	AVRG		0.17968		6.88160
89 Pentachlorobenzene	++++ 0.35549	0.45961 0.33955	0.45170	0.46107	0.40530	0.37529	AVRG		0.40686		12.65296
90 1-Naphthylamine	++++ 1137255	112252 1464364	217021	516918	722696	882895	QUAD	-0.07635	0.94495	0.11018	0.99637
91 2,3,4,6-Tetrachlorophenol	++++ 0.24452	0.28140 0.25562	0.28910	0.31898	0.28072	0.24765	AVRG		0.27400		9.71618
92 2-Naphthylamine	++++ 0.81285	1.13269 0.83922	1.11727	1.12142	0.96970	0.85572	AVRG		0.97841		14.77872
98 Thionazin	++++ 0.18130	0.22226 0.18424	0.21898	0.23502	0.20657	0.18423	AVRG		0.20466		10.59312
100 5-Nitro-o-toluidine	++++ 0.26789	0.28986 0.29063	0.30383	0.34065	0.30129	0.26799	AVRG		0.29459		8.44150
182 Diphenylamine	++++ 1109740	106145 1415406	205693	495776	696720	851583	QUAD	-0.06116	0.96882	0.11806	0.99702
104 Sulfotepp	++++ 0.07026	0.08047 0.06773	0.08482	0.08757	0.07953	0.07361	AVRG		0.07771		9.55253

Report Date : 14-May-2004 10:35

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## STL-Denver

## INITIAL CALIBRATION DATA

Start Cal Date : 06-MAY-2004 10:56  
 End Cal Date : 13-MAY-2004 17:28  
 Quant Method : ISTD  
 Target Version : 3.50  
 Integrator : HP RTE  
 Method file : /chem/Y.i/051304.b/8270C.m  
 Cal Date : 14-May-2004 10:35 todear

Compound	5	10	20	50	80	120	Curve	Coefficients			%RSD or R <sup>2</sup>
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6		b	m1	m2	
	160 Level 7	200 Level 8									
105 1,3,5-Trinitrobenzene	++++ 0.04907	++++ 0.05156	0.03598	0.05284	0.04852	0.04679	AVRG		0.04746		12.70500
106 Diallylate (#1)	++++ 0.25352	0.26742 0.24273	0.27767	0.29156	0.26658	0.25375	AVRG		0.26475		6.22329
107 Phorate	++++ 0.09310	0.10900 0.08751	0.11415	0.11742	0.10519	0.09660	AVRG		0.10328		10.83664
109 Phenacetin	++++ 0.21632	0.20945 0.22072	0.23714	0.26585	0.23471	0.21403	AVRG		0.22832		8.55588
111 Diallylate (#2)	++++ 0.16026	0.15346 0.16295	0.15677	0.16643	0.15743	0.15200	AVRG		0.15847		3.23446
112 Dimethoate	++++ 0.14845	0.16491 0.14152	0.18575	0.19091	0.16576	0.15185	AVRG		0.16416		11.38612
114 4-Aminobiphenyl	++++ 1010048	++++ 1262306	238014	543675	698452	815716	QUAD	0.05252	0.97897	0.85087	0.99897
115 Pentachloronitrobenzene	++++ 132438	++++ 161014	25752	64299	88814	105932	QUAD	0.21846	6.19717	54.00981	0.99757
116 Pronamide	++++ 363456	++++ 457037	86169	196708	256688	295607	QUAD	0.07756	2.48667	6.79837	0.99950

Report Date : 14-May-2004 10:35

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## STL-Denver

## INITIAL CALIBRATION DATA

Start Cal Date : 06-MAY-2004 10:56  
 End Cal Date : 13-MAY-2004 17:28  
 Quant Method : ISTD  
 Target Version : 3.50  
 Integrator : HP RTE  
 Method file : /chem/Y.i/051304.b/8270C.m  
 Cal Date : 14-May-2004 10:35 todear

Compound	5	10	20	50	80	120	Curve	Coefficients			%RSD or R^2
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6		b	m1	m2	
	160 Level 7	200 Level 8									
120 2-secbutyl-4,6-dinitropheno	++++ 284377	9415 394645	28638	107384	161305	202209	WLINR	0.14909	0.12516		0.99509
121 Disulfoton	++++ 0.21065	0.25861 0.20314	0.26109	0.26601	0.23814	0.21617	AVRG		0.23626		11.14631
124 Methyl parathion	++++ 0.13550	0.13533 0.12700	0.15921	0.17294	0.15117	0.13854	AVRG		0.14567		11.09466
126 Parathion	++++ 0.08909	0.07353 0.08732	0.09072	0.10657	0.09486	0.08648	AVRG		0.08980		11.04538
127 4-Nitroquinoline-1-oxide	++++ 0.04905	++++ 0.05198	++++	0.05539	0.04743	0.04758	AVRG		0.05029		6.73464
128 Methapyrilene	++++ 0.11032	++++ 0.10643	++++	0.14798	0.12890	0.11798	AVRG		0.12232		13.66202
129 Isodrin	++++ 0.08512	0.10606 0.08043	0.10404	0.10622	0.09542	0.08762	AVRG		0.09499		11.32416
134 Aramite (#1)	++++ 0.11712	0.08918 0.11837	0.10576	0.12329	0.12117	0.10674	AVRG		0.11166		10.75443
135 Aramite (#2)	++++ 0.14582	0.12452 0.15189	0.13989	0.15654	0.15079	0.13795	AVRG		0.14392		7.51586

Report Date : 14-May-2004 10:35

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## STL-Denver

## INITIAL CALIBRATION DATA

Start Cal Date : 06-MAY-2004 10:56  
 End Cal Date : 13-MAY-2004 17:28  
 Quant Method : ISTD  
 Target Version : 3.50  
 Integrator : HP RTE  
 Method file : /chem/Y.i/051304.b/8270C.m  
 Cal Date : 14-May-2004 10:35 todear

Compound	5	10	20	50	80	120	Curve	Coefficients			%RSD or R <sup>2</sup>
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6		b	m1	m2	
	160 Level 7	200 Level 8									
136 p-Dimethylaminoazobenzene	++++ 0.20879	0.24104 0.19835	0.25732	0.26678	0.24178	0.21223	AVRG		0.23233		11.23738
138 3,3'-Dimethylbenzidine	++++ 0.45097	0.46078 0.47173	0.49143	0.52831	0.48238	0.46887	AVRG		0.47921		5.30014
139 2-Acetylaminofluorene	++++ 0.30533	0.21211 0.33747	0.25656	0.32320	0.30533	0.29894	AVRG		0.29128		14.75245
149 7,12-Dimethylbenz(a)anthrac	++++ 0.48094	0.49422 0.46761	0.50761	0.55136	0.50240	0.48602	AVRG		0.49860		5.38734
152 3-Methylcholanthrene	++++ 0.51280	0.48675 0.51013	0.51011	0.55832	0.52198	0.50367	AVRG		0.51482		4.27321
153 Dibenz(a,j)acridine	++++ 0.70354	0.61238 0.72253	0.63725	0.71436	0.67386	0.67961	AVRG		0.67765		6.00738
M 1 Total Isosafrole	++++ 0.23094	0.24074 0.22334	0.24803	0.26611	0.24172	0.23977	AVRG		0.24152		5.58826
M 2 Total Diallate	++++ 0.22740	0.23551 0.22039	0.24382	0.25653	0.23708	0.22526	AVRG		0.23514		5.24218
M 3 Total Aramite	++++ 0.13262	0.10826 0.13647	0.12419	0.14125	0.13596	0.12359	AVRG		0.12891		8.67152

Report Date : 14-May-2004 10:35

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## STL-Denver

## INITIAL CALIBRATION DATA

Start Cal Date : 06-MAY-2004 10:56  
 End Cal Date : 13-MAY-2004 17:28  
 Quant Method : ISTD  
 Target Version : 3.50  
 Integrator : HP RTE  
 Method file : /chem/Y.i/051304.b/8270C.m  
 Cal Date : 14-May-2004 10:35 todear

Compound	5	10	20	50	80	120	Curve	Coefficients			%RSD or R <sup>2</sup>
	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6		b	m1	m2	
	160 Level 7	200 Level 8									
165 Chlorobenzilate	++++ 0.23757	0.27665 0.22596	0.29013	0.29982	0.27488	0.23894	AVRG		0.26342		10.97586
199 1,4-Dioxane	++++ 0.44382	0.48265 0.44249	0.47790	0.49480	0.45104	0.43654	AVRG		0.46132		5.02993
175 Biphenyl	++++ 1.02143	1.36439 0.95996	1.32628	1.30588	1.15715	1.08304	AVRG		1.17402		13.66740

Report Date : 14-May-2004 10:35

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STL-Denver

## INITIAL CALIBRATION DATA

Start Cal Date : 06-MAY-2004 10:56  
End Cal Date : 13-MAY-2004 17:28  
Quant Method : ISTD  
Target Version : 3.50  
Integrator : HP RTE  
Method file : /chem/Y.i/051304.b/8270C.m  
Cal Date : 14-May-2004 10:35 todear

Curve	Formula	Units
Averaged	$\text{Amt} = \text{Rsp/ml}$	Response
Wt Linear	$\text{Amt} = b + \text{Rsp/ml}$	Response
Quad	$\text{Amt} = b + m1 \cdot \text{Rsp} + m2 \cdot \text{Rsp}^2$	Response

INITIAL CALIBRATION REPORT

Instrument ID: Y.i  
Lab File ID: y1402.d  
Analysis Type: WATER

Injection Date: 13-MAY-2004 17:28  
Lab Sample ID: AP9\_0200  
Method File: /chem/Y.i/051304.b/8270C.m

COMPOUND	%RSD
1,4-Dioxane	5.0
2-Picoline	5.6
N-Nitrosomethylethylamine	4.2
Methyl methanesulfonate	4.8
N-Nitrosodiethylamine	4.7
Ethyl methanesulfonate	4.4
Pentachloroethane	6.8
N-Nitrosopyrrolidine	6.5
N-Nitrosomorpholine	10.2
o-Toluidine	12.9
N-Nitrosopiperidine	4.5
O,O,O-Triethyl phosphorothio	6.8
a,a-Dimethylphenethylamine	9.4
2,6-Dichlorophenol	6.8
Hexachloropropene	6.4
N-Nitrosodi-n-butylamine	6.2
p-Phenylenediamine	12.5
Safrole	9.4
1,2,4,5-Tetrachlorobenzene	11.9
Isosafrole (#1)	6.3
Isosafrole (#2)	7.1
Biphenyl	13.7
1-Chloronaphthalene	12.9
1,4-Naphthoquinone	16.6
1,4-Dinitrobenzene	10.6
1,3-Dinitrobenzene	6.9
Pentachlorobenzene	12.7
1-Naphthylamine	17.3
2,3,4,6-Tetrachlorophenol	9.7
2-Naphthylamine	14.8
Thionazin	10.6
5-Nitro-o-toluidine	8.4
Diphenylamine	16.3
Sulfotepp	9.6
Diallate (#1)	6.2
Phorate	10.8
1,3,5-Trinitrobenzene	12.7
Phenacetin	8.6
Diallate (#2)	3.2

*-variate*

*-quadratic*

*-quadratic*



INITIAL CALIBRATION REPORT

Instrument ID: Y.i  
Lab File ID: y1402.d  
Analysis Type: WATER

Injection Date: 13-MAY-2004 17:28  
Lab Sample ID: AP9 0200  
Method File: /chem/Y.i/051304.b/8270C.m

COMPOUND	%RSD
Dimethoate	11.4
Total Aramite	8.7
Total Isosafrole	5.6
Total Diallate	5.2
4-Aminobiphenyl	22.8
Pronamide	22.3
Pentachloronitrobenzene	16.2
Disulfoton	11.1
2-secbutyl-4,6-dinitropheno	25.9
Methyl parathion	11.1
Parathion	11.0
Methapyrilene	13.7
4-Nitroquinoline-1-oxide	6.7
Isodrin	11.3
Aramite (#1)	10.8
Aramite (#2)	7.5
p-Dimethylaminoazobenzene	11.2
Chlorobenzilate	11.0
3,3'-Dimethylbenzidine	5.3
2-Acetylaminofluorene	14.8
7,12-Dimethylbenz(a)anthrac	5.4
3-Methylcholanthrene	4.3
Dibenz(a,j)acridine	6.0

*quadratic*  
*quadratic*  
*quadratic*  
*Wt. linear 1/2*

The average of all %RSD's in the initial calibration is 9.9

5/14/04  
W

STL-Denver

BNA ANALYSIS QUANTITATION REPORT

Data file : /chem/Y.i/051304.b/y1396.d  
Lab Smp Id: AP9 0080 Client Smp ID: AP9\_0080  
Inj Date : 13-MAY-2004 14:48  
Operator : todear Inst ID: Y.i  
Smp Info : AP9 0080,BNA1406,P:050404,E:073104  
Misc Info : 4118458  
Comment : SOP#CORP-MS-0001DEN, revision1.1  
Method : /chem/Y.i/051304.b/8270C.m  
Meth Date : 14-May-2004 10:28 todear Quant Type: ISTD  
Cal Date : 13-MAY-2004 14:48 Cal File: y1396.d  
Als bottle: 9 Calibration Sample, Level: 5  
Dil Factor: 1.00000  
Integrator: HP RTE Compound Sublist: 2-AP9std.sub  
Target Version: 3.50  
Processing Host: chemsv03

Concentration Formula: Amt \* DF \* Vf/Vs \* CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vf	1000.00000	final volume at end of extraction (uL)
Vs	1000.00000	volume of sample extracted (mL)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG				AMOUNTS		
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)
* 22 1,4-Dichlorobenzene-d4	152	5.919	5.919	(1.000)	162998	40.0000	
* 49 Naphthalene-d8	136	7.148	7.148	(1.000)	638638	40.0000	
* 83 Acenaphthene-d10	164	8.860	8.860	(1.000)	386064	40.0000	
* 117 Phenanthrene-d10	188	10.122	10.122	(1.000)	680326	40.0000	
* 142 Chrysene-d12	240	12.269	12.269	(1.000)	508928	40.0000	
* 151 Perylene-d12	264	13.772	13.772	(1.000)	379385	40.0000	
7 2-Picoline	93	4.212	4.212	(0.712)	365382	80.0000	77.5670
8 N-Nitrosomethylethylamine	88	4.319	4.319	(0.730)	172669	80.0000	77.8262 (MH)
9 Methyl methanesulfonate	80	4.588	4.588	(0.775)	107528	80.0000	80.2285
11 N-Nitrosodiethylamine	102	4.937	4.937	(0.834)	175009	80.0000	79.6344
13 Ethyl methanesulfonate	79	5.200	5.200	(0.878)	260255	80.0000	77.9330
19 Pentachloroethane	117	5.661	5.661	(0.956)	127966	80.0000	80.1450
31 N-Nitrosopyrrolidine	100	6.289	6.289	(1.063)	177918	80.0000	78.4648
34 N-Nitrosomorpholine	116	6.316	6.316	(1.067)	78918	80.0000	81.3731
35 o-Toluidine	106	6.327	6.327	(1.069)	534828	80.0000	76.9498

Compounds	QUANT SIG					AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)
39 N-Nitrosopiperidine	114	6.617	6.617	(0.926)	190070	80.0000	80.5294
44 O,O,O-Triethyl phosphorothio	198	6.815	6.815	(0.953)	208558	80.0000	80.3092
48 a,a-Dimethylphenethylamine	58	7.030	7.030	(0.983)	870696	80.0000	78.9822 (M)
53 2,6-Dichlorophenol	162	7.223	7.223	(1.010)	321767	80.0000	80.9098
54 Hexachloropropene	213	7.245	7.245	(1.014)	227697	80.0000	81.4198
57 N-Nitrosodi-n-butylamine	84	7.508	7.508	(1.050)	240038	80.0000	80.5336
58 p-Phenylenediamine	108	7.577	7.577	(1.060)	356713	80.0000	81.4300
61 Safrole	162	7.744	7.744	(1.083)	306419	80.0000	79.5847
65 1,2,4,5-Tetrachlorobenzene	216	8.018	8.018	(1.122)	356862	80.0000	79.3468
66 Isosafrole (#1)	162	8.034	8.034	(0.907)	40546	14.0000	13.9658
72 Isosafrole (#2)	104	8.259	8.259	(0.932)	146089	66.0000	66.1135
73 1-Chloronaphthalene	162	8.367	8.367	(0.944)	697794	80.0000	78.3716
75 1,4-Naphthoquinone	158	8.517	8.517	(0.961)	171698	80.0000	83.9589
78 1,4-Dinitrobenzene	168	8.570	8.570	(0.967)	121754	80.0000	83.5110
80 1,3-Dinitrobenzene	168	8.640	8.640	(0.975)	143762	80.0000	82.8970
89 Pentachlorobenzene	250	9.000	9.000	(1.016)	312943	80.0000	79.6936
90 1-Naphthylamine	143	9.118	9.118	(1.029)	722696	80.0000	83.1458
91 2,3,4,6-Tetrachlorophenol	232	9.145	9.145	(1.032)	216753	80.0000	81.9623
92 2-Naphthylamine	143	9.188	9.188	(1.037)	748734	80.0000	79.2878
98 Thionazin	97	9.263	9.263	(1.045)	159500	80.0000	80.7488
100 5-Nitro-o-toluidine	152	9.354	9.354	(1.056)	232636	80.0000	81.8196
182 Diphenylamine	169	9.419	9.419	(1.063)	696720	80.0000	82.8702
104 Sulfotepp	97	9.494	9.494	(0.938)	108218	80.0000	81.8733
105 1,3,5-Trinitrobenzene	213	9.655	9.655	(0.954)	66024	80.0000	81.7917
106 Diallate (#1)	86	9.628	9.628	(0.951)	262065	57.8000	58.1999
107 Phorate	121	9.644	9.644	(0.953)	143125	80.0000	81.4772
109 Phenacetin	108	9.671	9.671	(0.955)	319359	80.0000	82.2404
111 Diallate (#2)	86	9.708	9.708	(0.959)	60515	22.6000	22.4517
112 Dimethoate	87	9.810	9.810	(0.969)	225539	80.0000	80.7768
114 4-Aminobiphenyl	169	9.950	9.950	(0.983)	698452	80.0000	78.1756
115 Pentachloronitrobenzene	237	9.966	9.966	(0.985)	88814	80.0000	77.9171
116 Pronamide	173	9.955	9.955	(0.984)	256688	80.0000	79.3431
120 2-secbutyl-4,6-dinitrophenol	211	10.073	10.073	(0.995)	161305	80.0000	81.7388
121 Disulfoton	88	10.063	10.063	(0.994)	324029	80.0000	80.6375
124 Methyl parathion	109	10.379	10.379	(1.025)	205696	80.0000	83.0227
126 Parathion	109	10.664	10.664	(1.054)	129074	80.0000	84.5128
127 4-Nitroquinoline-1-oxide	190	10.771	10.771	(1.064)	64540	80.0000	75.4627
128 Methapyrilene	97	10.761	10.761	(1.063)	175394	80.0000	84.3046
129 Isodrin	193	10.959	10.959	(1.083)	129840	80.0000	80.3684
134 Aramite (#1)	185	11.276	11.276	(0.919)	55501	36.0000	39.0662
135 Aramite (#2)	185	11.335	11.335	(0.924)	82882	43.2000	45.2644
136 p-Dimethylaminoazobenzene	120	11.458	11.458	(0.934)	246095	80.0000	83.2538
138 3,3'-Dimethylbenzidine	212	11.743	11.743	(0.957)	490989	80.0000	80.5288
139 2-Acetylaminofluorene	181	11.963	11.963	(0.975)	310777	80.0000	83.8586
149 7,12-Dimethylbenz(a)anthrac	256	13.267	13.267	(0.963)	381208	80.0000	80.6107
152 3-Methylcholanthrene	268	14.110	14.110	(1.025)	396063	80.0000	81.1122
153 Dibenz(a,j)acridine	279	15.012	15.012	(1.090)	511308	80.0000	79.5534

Compounds	QUANT SIG					AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)
=====	====	==	=====	=====	=====	=====	=====
M 1 Total Isosafrole	162				186635	80.0000	80.0650
M 2 Total Diallate	86				322580	80.0000	80.6587
M 3 Total Aramite	185				138383	80.0000	84.3753
165 Chlorobenzilate	251	11.469	11.469	(0.935)	279790	80.0000	83.4809
199 1,4-Dioxane	88	3.176	3.176	(0.537)	147038	80.0000	78.2175
175 Biphenyl	154	8.307	8.307	(0.938)	893467	80.0000	78.8505

QC Flag Legend

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

STL-Denver

INTERNAL STANDARD COMPOUNDS  
AREA AND RT SUMMARY

Instrument ID: Y.i  
Lab File ID: y1396.d  
Lab Smp Id: AP9\_0080  
Analysis Type: SV  
Quant Type: ISTD  
Operator: todear  
Method File: /chem/Y.i/051304.b/8270C.m  
Misc Info: 4118458

Calibration Date: 13-MAY-2004  
Calibration Time: 14:48  
Client Smp ID: AP9\_0080  
Level: LOW  
Sample Type: WATER

Test Mode:  
Use Last Continuing Calibrator.

COMPOUND =====	STANDARD =====	AREA LIMIT		SAMPLE =====	%DIFF =====
		LOWER =====	UPPER =====		
22 1,4-Dichlorobenze	162998	81499	325996	162998	0.00
49 Naphthalene-d8	638638	319319	1277276	638638	0.00
83 Acenaphthene-d10	386064	193032	772128	386064	0.00
117 Phenanthrene-d10	680326	340163	1360652	680326	0.00
142 Chrysene-d12	508928	254464	1017856	508928	0.00
151 Perylene-d12	379385	189692	758770	379385	0.00

COMPOUND =====	STANDARD =====	RT LIMIT		SAMPLE =====	%DIFF =====
		LOWER =====	UPPER =====		
22 1,4-Dichlorobenze	5.92	5.42	6.42	5.92	0.00
49 Naphthalene-d8	7.15	6.65	7.65	7.15	0.00
83 Acenaphthene-d10	8.86	8.36	9.36	8.86	0.00
117 Phenanthrene-d10	10.12	9.62	10.62	10.12	0.00
142 Chrysene-d12	12.27	11.77	12.77	12.27	0.00
151 Perylene-d12	13.77	13.27	14.27	13.77	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/Y.i/051304.b/y1396.d

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Date : 13-MAY-2004 14:48

Client ID: AP9\_0080

Instrument: Y.i

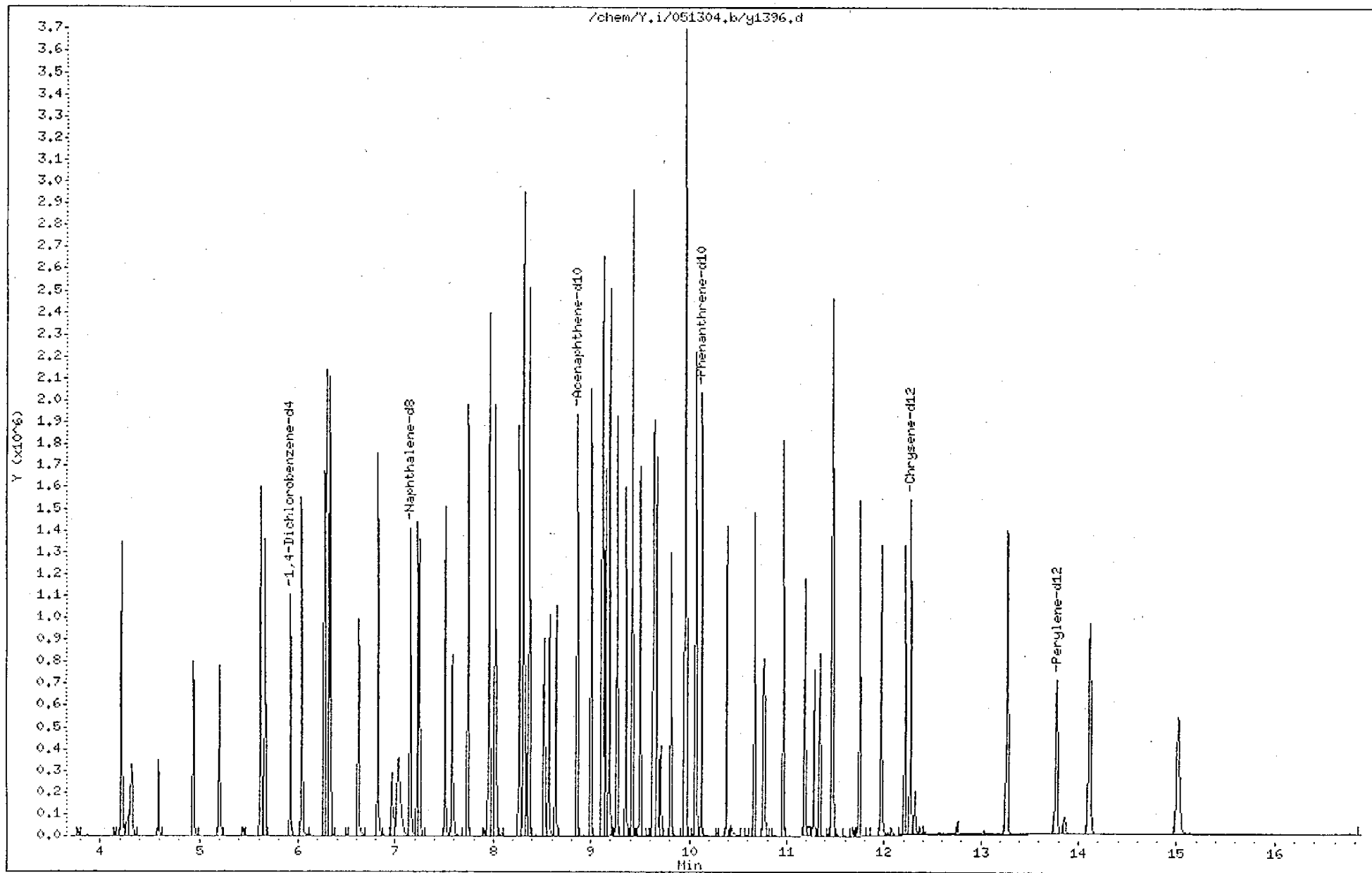
Sample Info: AP9\_0080,BNA1406,P:050404,E:073104

Volume Injected (uL): 0.5

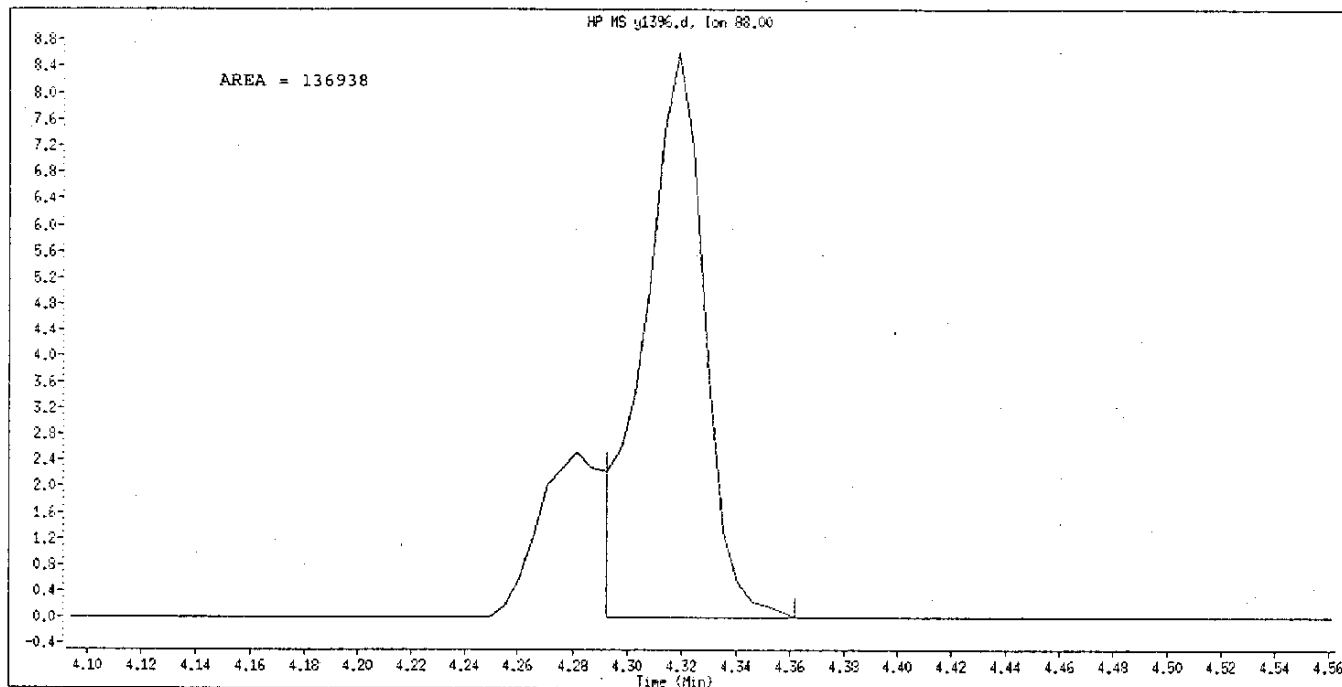
Operator: todear

Column phase: Rtx-5ms 30m 0.5um

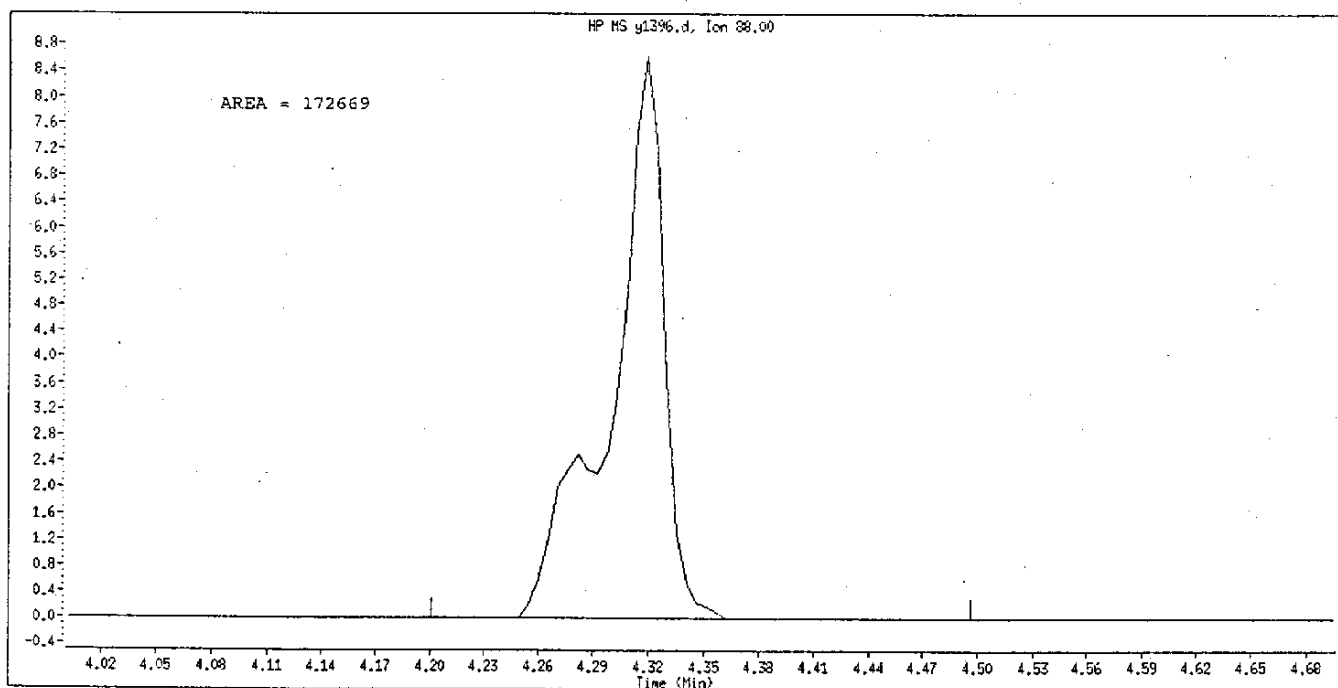
Column diameter: 0.25



Data File Name: y1396.d  
Inj. Date and Time: 13-MAY-2004 14:48  
Instrument ID: Y.i  
Client ID: AP9\_0080  
Compound Name: N-Nitrosomethylethylamine  
CAS #: 10595-95-6  
Report Date: 05/14/2004



Original Integration



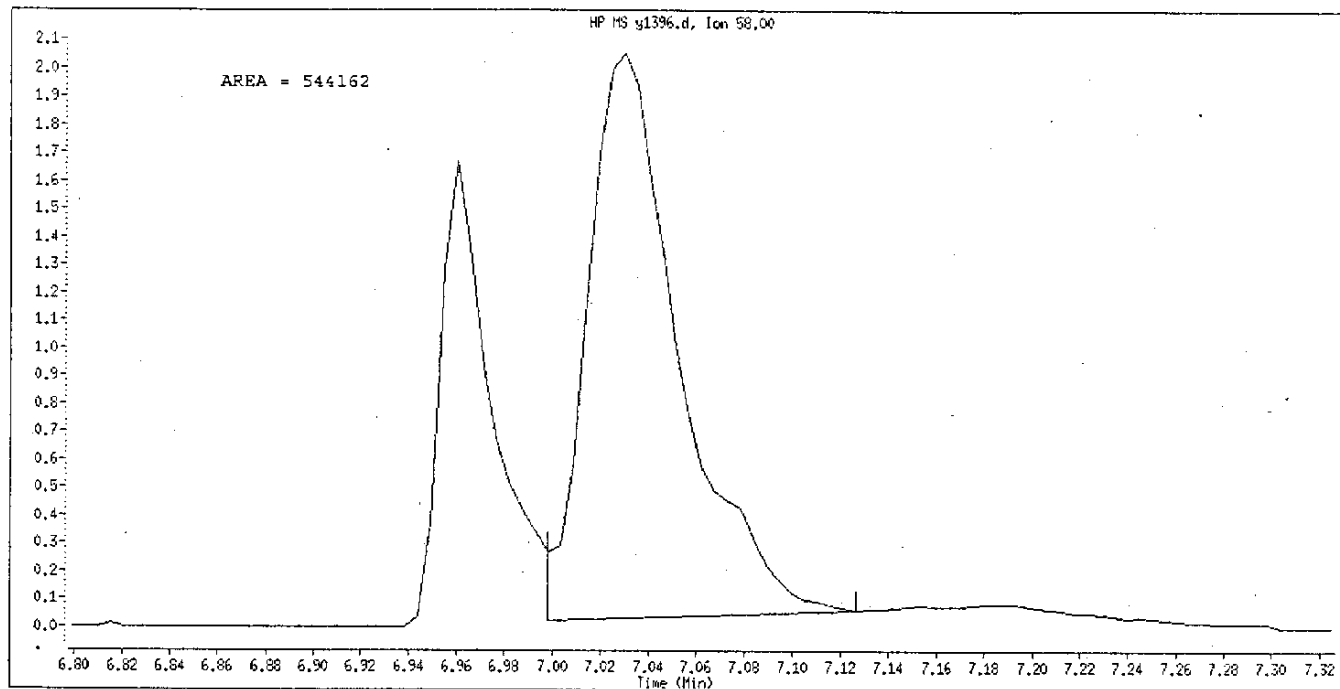
Manual Integration

Manually Integrated By: todear  
Manual Integration Reason: Split Peak

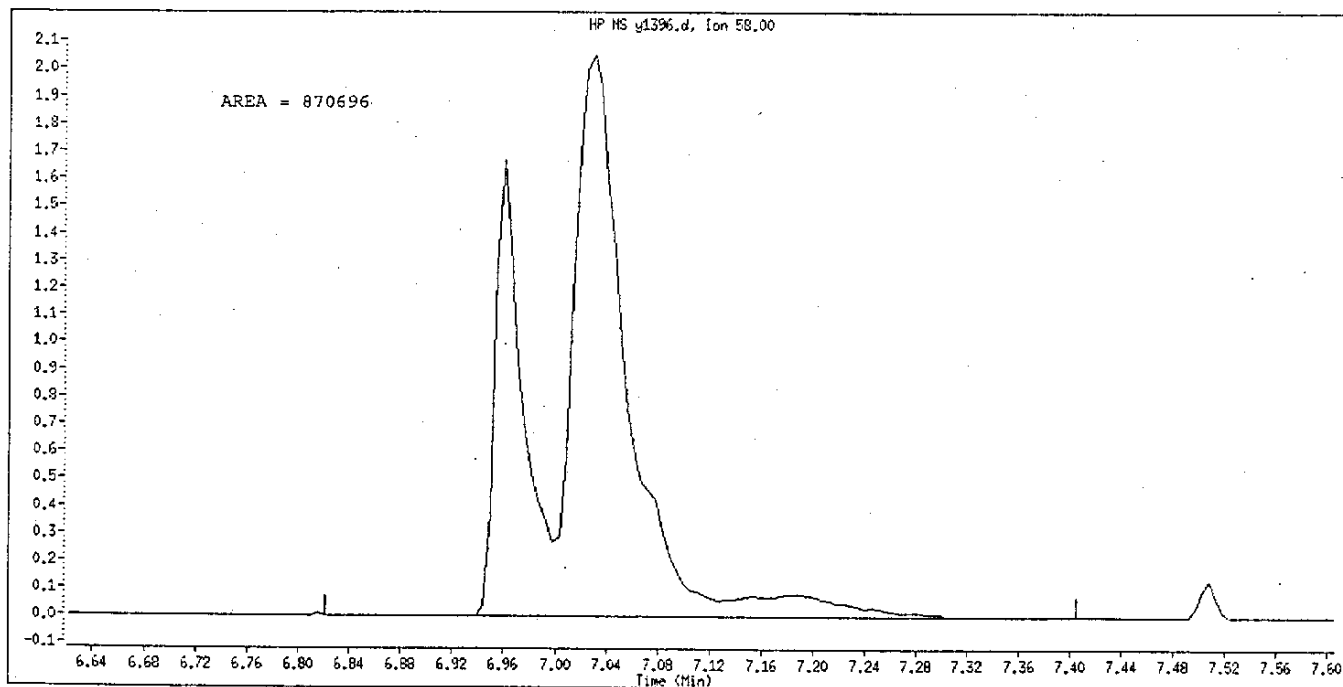
5/14/04  
5

new  
05-14-04

Data File Name: y1396.d  
Inj. Date and Time: 13-MAY-2004 14:48  
Instrument ID: Y.i  
Client ID: AP9\_0080  
Compound Name: a,a-Dimethylphenethylamine  
CAS #: 122-09-8  
Report Date: 05/14/2004



Original Integration



Manual Integration

Manually Integrated By: todear  
Manual Integration Reason: Split Peak

5/14/04  
LS

MLK  
05-14-04



STL-Denver

5/14/04  
15

BNA ANALYSIS QUANTITATION REPORT

Data file : /chem/Y.i/051304.b/y1397.d  
Lab Smp Id: AP9 0010 Client Smp ID: AP9\_0010  
Inj Date : 13-MAY-2004 15:15  
Operator : todear Inst ID: Y.i  
Smp Info : AP9 0010,BNA1406,P:050404,E:073104  
Misc Info : 4118458  
Comment : SOP#CORP-MS-0001DEN, revision1.1  
Method : /chem/Y.i/051304.b/8270C.m  
Meth Date : 14-May-2004 10:29 todear Quant Type: ISTD  
Cal Date : 13-MAY-2004 15:15 Cal File: y1397.d  
Als bottle: 10 Calibration Sample, Level: 2  
Dil Factor: 1.00000  
Integrator: HP RTE Compound Sublist: 2-AP9std.sub  
Target Version: 3.50  
Processing Host: chemsv03

Concentration Formula: Amt \* DF \* Vf/Vs \* CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vf	1000.00000	final volume at end of extraction (uL)
Vs	1000.00000	volume of sample extracted (mL)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG						AMOUNTS	
		MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)
* 22 1,4-Dichlorobenzene-d4	152		5.917	5.917	(1.000)	157049	40.0000	
* 49 Naphthalene-d8	136		7.147	7.147	(1.000)	644198	40.0000	
* 83 Acenaphthene-d10	164		8.859	8.859	(1.000)	395005	40.0000	
* 117 Phenanthrene-d10	188		10.120	10.120	(1.000)	723044	40.0000	
* 142 Chrysene-d12	240		12.257	12.257	(1.000)	571801	40.0000	
* 151 Perylene-d12	264		13.754	13.754	(1.000)	431271	40.0000	
7 2-Picoline	93		4.216	4.216	(0.712)	46955	10.0000	10.3457
8 N-Nitrosomethylethylamine	88		4.318	4.318	(0.730)	20417	10.0000	9.55104(a)
9 Methyl methanesulfonate	80		4.586	4.586	(0.775)	12350	10.0000	9.56359(a)
11 N-Nitrosodiethylamine	102		4.940	4.940	(0.835)	19892	10.0000	9.39433(a)
13 Ethyl methanesulfonate	79		5.198	5.198	(0.878)	32352	10.0000	10.0547
19 Pentachloroethane	117		5.660	5.660	(0.956)	15637	10.0000	10.1644
31 N-Nitrosopyrrolidine	100		6.288	6.288	(1.063)	22483	10.0000	10.2910
34 N-Nitrosomorpholine	116		6.315	6.315	(1.067)	9272	10.0000	9.92260(a)
35 o-Toluidine	106		6.325	6.325	(1.069)	78608	10.0000	11.7383

Compounds	QUANT SIG				RESPONSE	AMOUNTS	
	MASS	RT	EXP RT	REL RT		CAL-AMT (ug/ml)	ON-COL (ug/ml)
-----	----	--	-----	-----	-----	-----	-----
39 N-Nitrosopiperidine	114	6.615	6.615	(0.926)	23058	10.0000	9.68917(a)
44 O,O,O-Triethyl phosphorothio	198	6.814	6.814	(0.953)	26769	10.0000	10.2189
48 a,a-Dimethylphenethylamine	58	6.969	6.969	(0.975)	122013	10.0000	10.9724
53 2,6-Dichlorophenol	162	7.232	7.232	(1.012)	40570	10.0000	10.1135
54 Hexachloropropene	213	7.238	7.238	(1.013)	27959	10.0000	9.91128(a)
57 N-Nitrosodi-n-butylamine	84	7.506	7.506	(1.050)	29897	10.0000	9.94398(a)
58 p-Phenylenediamine	108	7.581	7.581	(1.061)	46840	10.0000	10.6003
61 Safrole	162	7.742	7.742	(1.083)	41859	10.0000	10.7780
65 1,2,4,5-Tetrachlorobenzene	216	8.022	8.022	(1.122)	51037	10.0000	11.2499
66 Isosafrole (#1)	162	8.038	8.038	(0.907)	4693	1.75000	1.57988(a)
72 Isosafrole (#2)	104	8.263	8.263	(0.933)	19080	8.25000	8.43933(a)
73 1-Chloronaphthalene	162	8.365	8.365	(0.944)	107965	10.0000	11.8514
75 1,4-Naphthoquinone	158	8.526	8.526	(0.962)	20680	10.0000	9.88345(a)
78 1,4-Dinitrobenzene	168	8.574	8.574	(0.968)	12043	10.0000	8.07331(a)
80 1,3-Dinitrobenzene	168	8.644	8.644	(0.976)	16224	10.0000	9.14344(a)
89 Pentachlorobenzene	250	8.998	8.998	(1.016)	45387	10.0000	11.2966
90 1-Naphthylamine	143	9.117	9.117	(1.029)	112252	10.0000	8.04314(a)
91 2,3,4,6-Tetrachlorophenol	232	9.143	9.143	(1.032)	27789	10.0000	10.2702
92 2-Naphthylamine	143	9.186	9.186	(1.037)	111855	10.0000	11.5769
98 Thionazin	97	9.256	9.256	(1.045)	21948	10.0000	10.8599
100 5-Nitro-o-toluidine	152	9.353	9.353	(1.056)	28624	10.0000	9.83938(a)
182 Diphenylamine	169	9.417	9.417	(1.063)	106145	10.0000	8.30802(a)
104 Sulfotepp	97	9.487	9.487	(0.937)	14545	10.0000	10.3540
105 1,3,5-Trinitrobenzene	213	9.664	9.664	(0.955)	4213	10.0000	4.91079(aQ)
106 Diallate (#1)	86	9.621	9.621	(0.951)	34804	7.20000	7.27268(a)
107 Phorate	121	9.637	9.637	(0.952)	19703	10.0000	10.5537
109 Phenacetin	108	9.664	9.664	(0.955)	37860	10.0000	9.17359(a)
111 Diallate (#2)	86	9.702	9.702	(0.959)	7767	2.80000	2.71139(a)
112 Dimethoate	87	9.804	9.804	(0.969)	29809	10.0000	10.0453
114 4-Aminobiphenyl	169	9.949	9.949	(0.983)	120138	10.0000	9.54683(a)
115 Pentachloronitrobenzene	237	9.959	9.959	(0.984)	12183	10.0000	13.5284
116 Pronamide	173	9.949	9.949	(0.983)	42267	10.0000	9.84626(a)
120 2-secbutyl-4,6-dinitropheno	211	10.067	10.067	(0.995)	9415	10.0000	10.1250
121 Disulfoton	88	10.056	10.056	(0.994)	46747	10.0000	10.9461
124 Methyl parathion	109	10.378	10.378	(1.025)	24462	10.0000	9.28999(a)
126 Parathion	109	10.662	10.662	(1.054)	13291	10.0000	8.18830(a)
127 4-Nitroquinoline-1-oxide	190	10.775	10.775	(1.065)	3202	10.0000	3.52271(aQH)
128 Methapyrilene	97	10.754	10.754	(1.063)	23678	10.0000	10.7086
129 Isodrin	193	10.952	10.952	(1.082)	19171	10.0000	11.1654
134 Aramite (#1)	185	11.269	11.269	(0.919)	5864	4.60000	3.67372(a)
135 Aramite (#2)	185	11.328	11.328	(0.924)	9612	5.40000	4.67221(a)
136 p-Dimethylaminoazobenzene	120	11.451	11.451	(0.934)	34457	10.0000	10.3750
138 3,3'-Dimethylbenzidine	212	11.736	11.736	(0.958)	65868	10.0000	9.61536(a)
139 2-Acetylaminofluorene	181	11.956	11.956	(0.975)	30321	10.0000	7.28205(a)
149 7,12-Dimethylbenz(a)anthrac	256	13.250	13.250	(0.963)	53286	10.0000	9.91228(a)
152 3-Methylcholanthrene	268	14.092	14.092	(1.025)	52480	10.0000	9.45465(a)
153 Dibenz(a,j)acridine	279	14.994	14.994	(1.090)	66025	10.0000	9.03680(a)

Compounds	QUANT SIG					AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)
=====	----	--	-----	-----	-----	-----	-----
M 1 Total Isosafrole	162				23773	10.0000	9.96760(a)
M 2 Total Diallate	86				42571	10.0000	10.0157
M 3 Total Aramite	185				15476	10.0000	8.39852(a)
165 Chlorobenzilate	251	11.462	11.462	(0.935)	39547	10.0000	10.5022
199 1,4-Dioxane	88	3.174	3.174	(0.536)	18950	10.0000	10.4624
175 Biphenyl	154	8.306	8.306	(0.938)	134735	10.0000	11.6215

#### QC Flag Legend

- a - Target compound detected but, quantitated amount  
Below Limit Of Quantitation(BLOQ).
- Q - Qualifier signal failed the ratio test.
- H - Operator selected an alternate compound hit.

STL-Denver

INTERNAL STANDARD COMPOUNDS  
AREA AND RT SUMMARY

Instrument ID: Y.i  
Lab File ID: y1397.d  
Lab Smp Id: AP9\_0010  
Analysis Type: SV  
Quant Type: ISTD  
Operator: todear  
Method File: /chem/Y.i/051304.b/8270C.m  
Misc Info: 4118458

Calibration Date: 13-MAY-2004  
Calibration Time: 14:48  
Client Smp ID: AP9\_0010  
Level: LOW  
Sample Type: WATER

Test Mode:  
Use Last Continuing Calibrator.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
22 1,4-Dichlorobenze	162998	81499	325996	157049	-3.65
49 Naphthalene-d8	638638	319319	1277276	644198	0.87
83 Acenaphthene-d10	386064	193032	772128	395005	2.32
117 Phenanthrene-d10	680326	340163	1360652	723044	6.28
142 Chrysene-d12	508928	254464	1017856	571801	12.35
151 Perylene-d12	379385	189692	758770	431271	13.68

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
22 1,4-Dichlorobenze	5.92	5.42	6.42	5.92	-0.02
49 Naphthalene-d8	7.15	6.65	7.65	7.15	-0.02
83 Acenaphthene-d10	8.86	8.36	9.36	8.86	-0.02
117 Phenanthrene-d10	10.12	9.62	10.62	10.12	-0.01
142 Chrysene-d12	12.27	11.77	12.77	12.26	-0.10
151 Perylene-d12	13.77	13.27	14.27	13.75	-0.13

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/Y.i/051304.b/y1397.d

Date : 13-MAY-2004 15:15

Client ID: AP9\_0010

Sample Info: AP9\_0010,ENA1406,P:050404,E:073104

Volume Injected (uL): 0.5

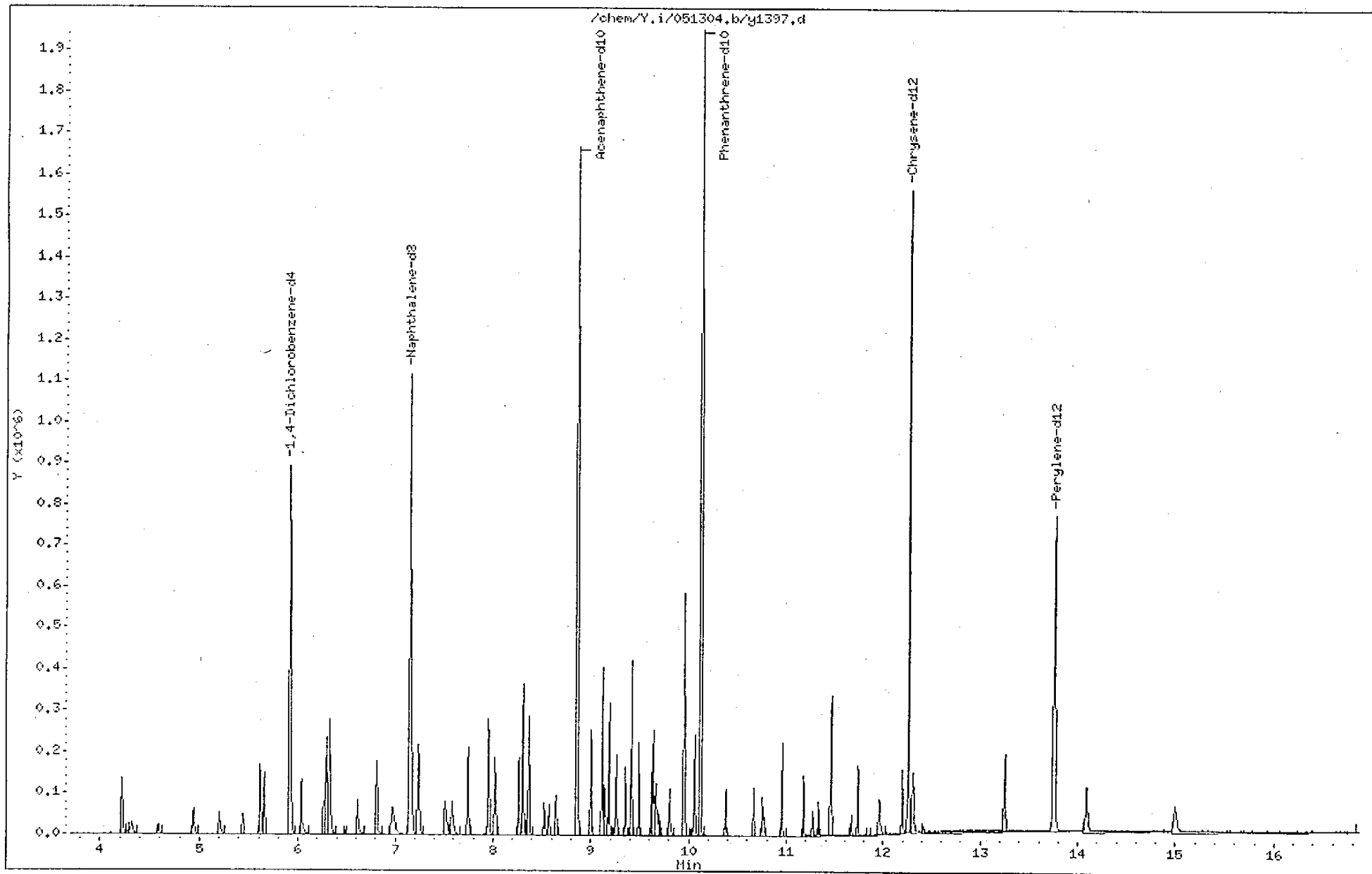
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Instrument: Y.i

Operator: todear

Column diameter: 0.25

Page 5



STL-Denver

BNA ANALYSIS QUANTITATION REPORT

Data file : /chem/Y.i/051304.b/y1398.d  
Lab Smp Id: AP9\_0020 Client Smp ID: AP9\_0020  
Inj Date : 13-MAY-2004 15:41  
Operator : todear Inst ID: Y.i  
Smp Info : AP9\_0020,BNA1406,P:050404,E:073104  
Misc Info : 4118458  
Comment : SOP#CORP-MS-0001DEN, revision1.1  
Method : /chem/Y.i/051304.b/8270C.m  
Meth Date : 14-May-2004 10:29 todear Quant Type: ISTD  
Cal Date : 13-MAY-2004 15:41 Cal File: y1398.d  
Als bottle: 11 Calibration Sample, Level: 3  
Dil Factor: 1.00000  
Integrator: HP RTE Compound Sublist: 2-AP9std.sub  
Target Version: 3.50  
Processing Host: chemsv03

Concentration Formula: Amt \* DF \* Vf/Vs \* CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vf	1000.00000	final volume at end of extraction (uL)
Vs	1000.00000	volume of sample extracted (mL)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG						AMOUNTS	
		MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)
* 22 1,4-Dichlorobenzene-d4	152	5.918	5.918	(1.000)	162278	40.0000		
* 49 Naphthalene-d8	136	7.147	7.147	(1.000)	646795	40.0000		
* 83 Acenaphthene-d10	164	8.854	8.854	(1.000)	397093	40.0000		
* 117 Phenanthrene-d10	188	10.116	10.116	(1.000)	711048	40.0000		
* 142 Chrysene-d12	240	12.241	12.241	(1.000)	585763	40.0000		
* 151 Perylene-d12	264	13.739	13.739	(1.000)	435824	40.0000		
7 2-Picoline	93	4.217	4.217	(0.712)	96675	20.0000	20.6142	
8 N-Nitrosomethylethylamine	88	4.319	4.319	(0.730)	42424	20.0000	19.2064 (M)	
9 Methyl methanesulfonate	80	4.587	4.587	(0.775)	26780	20.0000	20.0697	
11 N-Nitrosodiethylamine	102	4.936	4.936	(0.834)	44165	20.0000	20.1856	
13 Ethyl methanesulfonate	79	5.193	5.193	(0.878)	67817	20.0000	20.3978	
19 Pentachloroethane	117	5.660	5.660	(0.956)	33062	20.0000	20.7986	
31 N-Nitrosopyrrolidine	100	6.283	6.283	(1.062)	47829	20.0000	21.1870	
34 N-Nitrosomorpholine	116	6.310	6.310	(1.066)	21033	20.0000	21.7835	
35 o-Toluidine	106	6.321	6.321	(1.068)	154103	20.0000	22.2703	

Compounds	QUANT SIG					AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)
=====	=====	=====	=====	=====	=====	=====	=====
39 N-Nitrosopiperidine	114	6.611	6.611	(0.925)	47651	20.0000	19.9343
44 O,O,O-Triethyl phosphorothio	198	6.809	6.809	(0.953)	54899	20.0000	20.8733
48 a,a-Dimethylphenethylamine	58	6.986	6.986	(0.977)	237146	20.0000	21.2406(M)
53 2,6-Dichlorophenol	162	7.228	7.228	(1.011)	84428	20.0000	20.9621
54 Hexachloropropene	213	7.239	7.239	(1.013)	58480	20.0000	20.6475
57 N-Nitrosodi-n-butylamine	84	7.507	7.507	(1.050)	63331	20.0000	20.9798
58 p-Phenylenediamine	108	7.577	7.577	(1.060)	99063	20.0000	22.3288
61 Safrole	162	7.738	7.738	(1.083)	84098	20.0000	21.5669
65 1,2,4,5-Tetrachlorobenzene	216	8.017	8.017	(1.122)	101610	20.0000	22.3076
66 Isosafrole (#1)	162	8.033	8.033	(0.907)	9711	3.50000	3.25199(a)
72 Isosafrole (#2)	104	8.258	8.258	(0.933)	39534	16.5000	17.3944
73 1-Chloronaphthalene	162	8.366	8.366	(0.945)	201715	20.0000	22.0261
75 1,4-Naphthoquinone	158	8.521	8.521	(0.962)	46209	20.0000	21.9682
78 1,4-Dinitrobenzene	168	8.570	8.570	(0.968)	27733	20.0000	18.4937
80 1,3-Dinitrobenzene	168	8.640	8.640	(0.976)	34934	20.0000	19.5844
89 Pentachlorobenzene	250	8.999	8.999	(1.016)	89684	20.0000	22.2044
90 1-Naphthylamine	143	9.112	9.112	(1.029)	217021	20.0000	18.9197
91 2,3,4,6-Tetrachlorophenol	232	9.144	9.144	(1.033)	57400	20.0000	21.1022
92 2-Naphthylamine	143	9.182	9.182	(1.037)	221831	20.0000	22.8385
98 Thionazin	97	9.257	9.257	(1.045)	43478	20.0000	21.3999
100 5-Nitro-o-toluidine	152	9.348	9.348	(1.056)	60324	20.0000	20.6271
182 Diphenylamine	169	9.412	9.412	(1.063)	205693	20.0000	18.8944
104 Sulfotepp	97	9.488	9.488	(0.938)	30157	20.0000	21.8298
105 1,3,5-Trinitrobenzene	213	9.654	9.654	(0.954)	12791	20.0000	15.1611
106 Diallate (#1)	86	9.622	9.622	(0.951)	71078	14.4000	15.1031
107 Phorate	121	9.638	9.638	(0.953)	40583	20.0000	22.1046
109 Phenacetin	108	9.659	9.659	(0.955)	84310	20.0000	20.7732
111 Diallate (#2)	86	9.702	9.702	(0.959)	15606	5.60000	5.53983(a)
112 Dimethoate	87	9.799	9.799	(0.969)	66040	20.0000	22.6303
114 4-Aminobiphenyl	169	9.944	9.944	(0.983)	238014	20.0000	19.0222
115 Pentachloronitrobenzene	237	9.960	9.960	(0.985)	25752	20.0000	20.5497
116 Pronamide	173	9.944	9.944	(0.983)	86169	20.0000	19.1501
120 2-secbutyl-4,6-dinitropheno	211	10.062	10.062	(0.995)	28638	20.0000	18.8354
121 Disulfoton	88	10.057	10.057	(0.994)	92825	20.0000	22.1022
124 Methyl parathion	109	10.373	10.373	(1.025)	56602	20.0000	21.8585
126 Parathion	109	10.658	10.658	(1.054)	32253	20.0000	20.2056
127 4-Nitroquinoline-1-oxide	190	10.765	10.765	(1.064)	12030	20.0000	13.4582
128 Methapyrilene	97	10.749	10.749	(1.063)	52422	20.0000	24.1084
129 Isodrin	193	10.948	10.948	(1.082)	36988	20.0000	21.9056
134 Aramite (#1)	185	11.264	11.264	(0.920)	14248	9.20000	8.71342(a)
135 Aramite (#2)	185	11.323	11.323	(0.925)	22125	10.8000	10.4982
136 p-Dimethylaminoazobenzene	120	11.441	11.441	(0.935)	75365	20.0000	22.1516
138 3,3'-Dimethylbenzidine	212	11.726	11.726	(0.958)	143930	20.0000	20.5100
139 2-Acetylaminofluorene	181	11.946	11.946	(0.976)	75143	20.0000	17.6166
149 7,12-Dimethylbenz(a)anthrac	256	13.234	13.234	(0.963)	110615	20.0000	20.3617
152 3-Methylcholanthrene	268	14.072	14.072	(1.024)	111160	20.0000	19.8171
153 Dibenz(a,j)acridine	279	14.973	14.973	(1.090)	138864	20.0000	18.8077

Compounds	QUANT SIG					AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)
=====	====	==	=====	=====	=====	=====	=====
M 1 Total Isosafrole	162				49245	20.0000	20.5390
M 2 Total Diallate	86				86684	20.0000	20.7382
M 3 Total Aramite	185				36373	20.0000	19.2684
165 Chlorobenzilate	251	11.452	11.452	(0.936)	84974	20.0000	22.0280
199 1,4-Dioxane	88	3.175	3.175	(0.537)	38776	20.0000	20.7186
175 Biphenyl	154	8.301	8.301	(0.938)	263329	20.0000	22.5939

#### QC Flag Legend

- a - Target compound detected but, quantitated amount  
Below Limit Of Quantitation(BLOQ).
- M - Compound response manually integrated.



STL-Denver

INTERNAL STANDARD COMPOUNDS  
 AREA AND RT SUMMARY

Instrument ID: Y.i  
 Lab File ID: y1398.d  
 Lab Smp Id: AP9\_0020  
 Analysis Type: SV  
 Quant Type: ISTD  
 Operator: todear  
 Method File: /chem/Y.i/051304.b/8270C.m  
 Misc Info: 4118458

Calibration Date: 13-MAY-2004  
 Calibration Time: 14:48  
 Client Smp ID: AP9\_0020  
 Level: LOW  
 Sample Type: WATER

Test Mode:  
 Use Last Continuing Calibrator.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
22 1,4-Dichlorobenze	162998	81499	325996	162278	-0.44
49 Naphthalene-d8	638638	319319	1277276	646795	1.28
83 Acenaphthene-d10	386064	193032	772128	397093	2.86
117 Phenanthrene-d10	680326	340163	1360652	711048	4.52
142 Chrysene-d12	508928	254464	1017856	585763	15.10
151 Perylene-d12	379385	189692	758770	435824	14.88

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
22 1,4-Dichlorobenze	5.92	5.42	6.42	5.92	-0.01
49 Naphthalene-d8	7.15	6.65	7.65	7.15	-0.01
83 Acenaphthene-d10	8.86	8.36	9.36	8.85	-0.07
117 Phenanthrene-d10	10.12	9.62	10.62	10.12	-0.06
142 Chrysene-d12	12.27	11.77	12.77	12.24	-0.22
151 Perylene-d12	13.77	13.27	14.27	13.74	-0.24

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/Y.i/051304.b/y1398.d

Date : 13-MAY-2004 15:41

Client ID: AP9\_0020

Sample Info: AP9\_0020,BNA1406,P:050404,E:073104

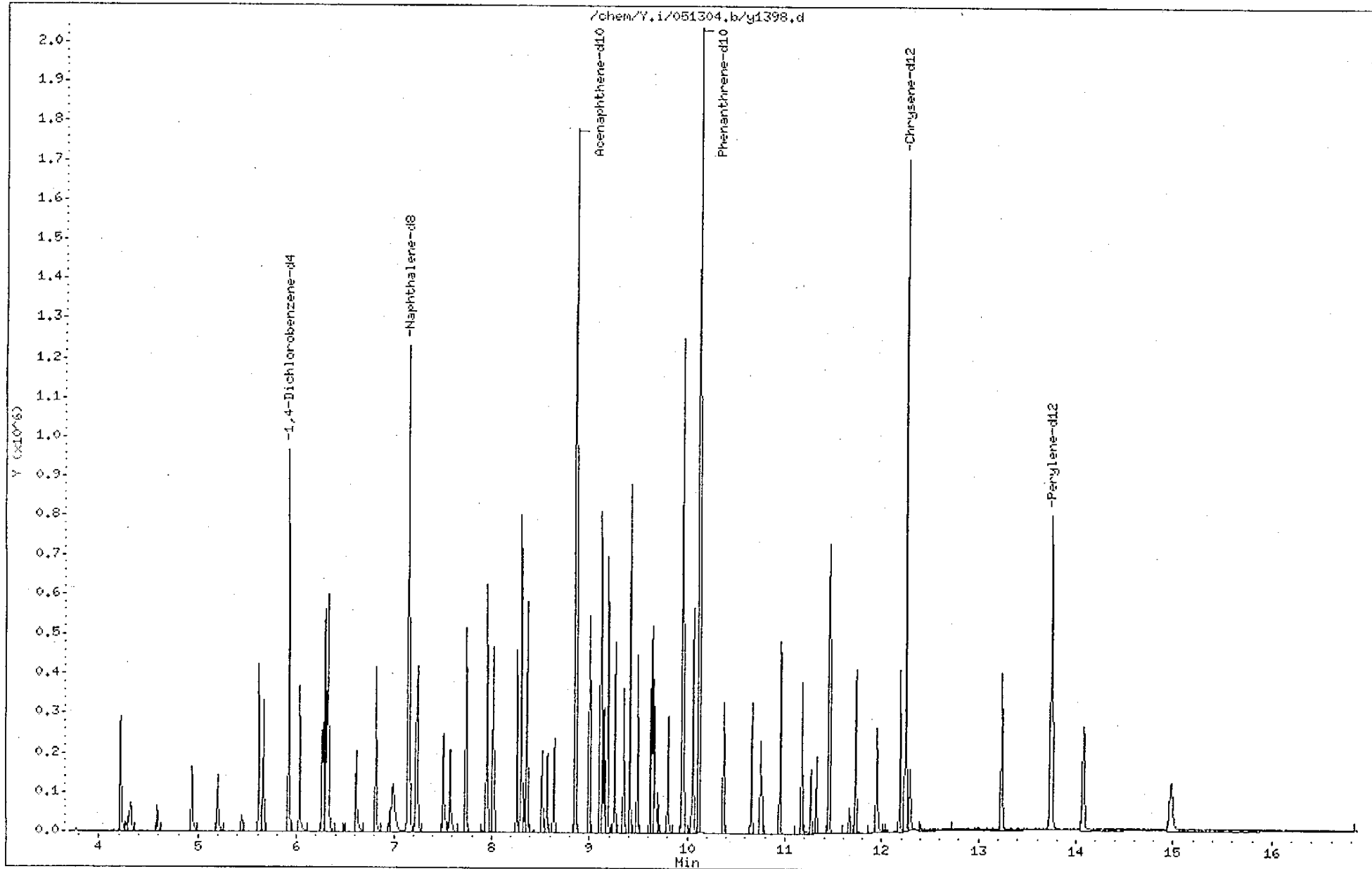
Volume Injected (uL): 0.5

Column phase: Rtx-5ms 30m 0.5um

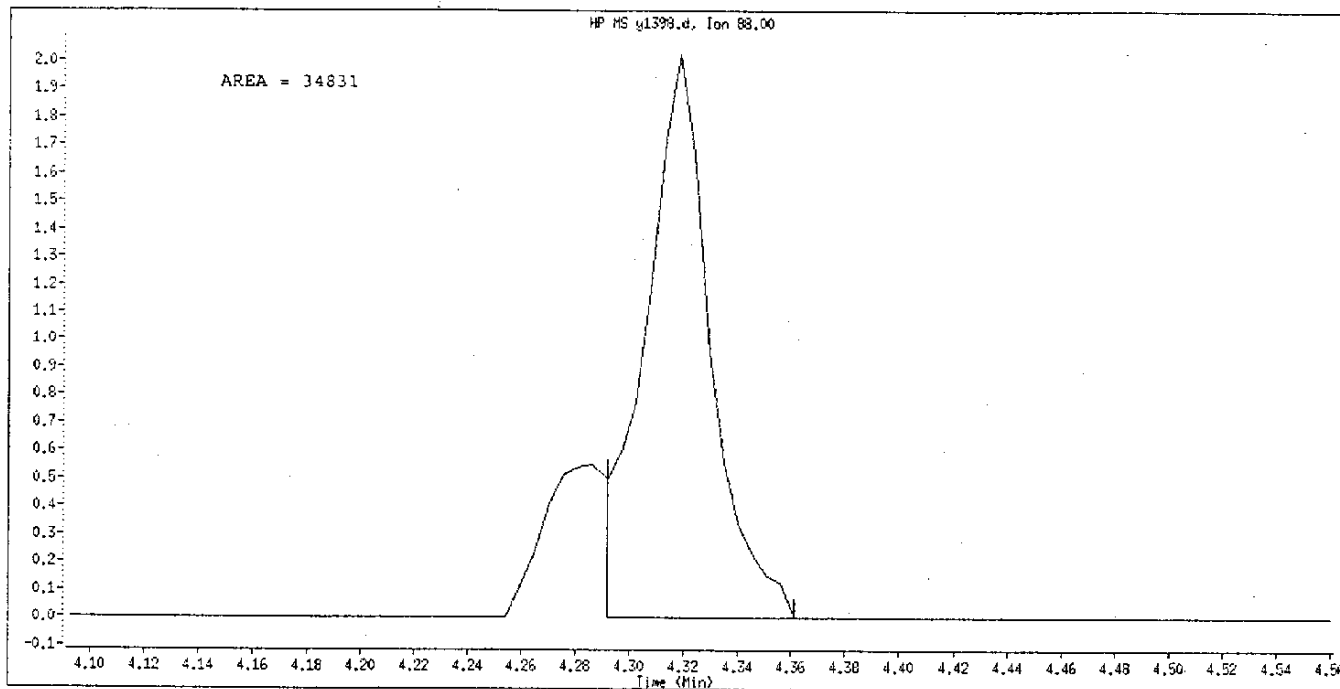
Instrument: Y.i

Operator: todear

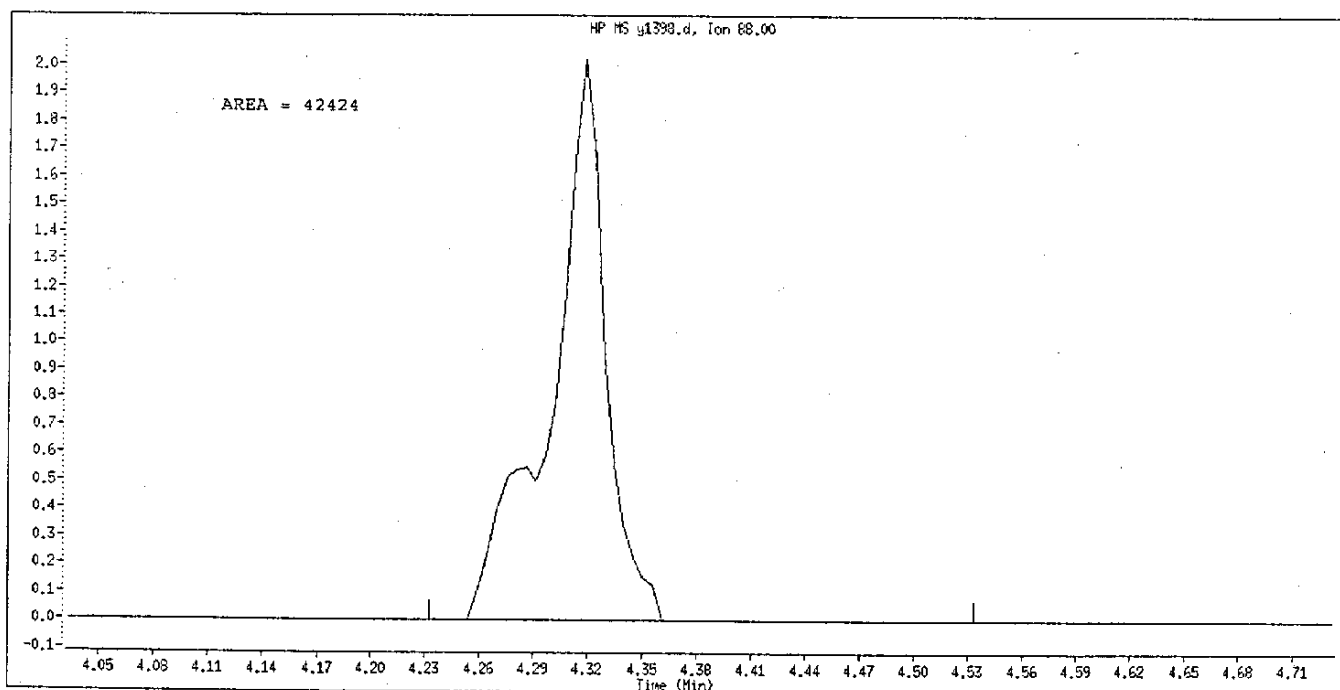
Column diameter: 0.25



Data File Name: y1398.d  
Inj. Date and Time: 13-MAY-2004 15:41  
Instrument ID: Y.i  
Client ID: AP9\_0020  
Compound Name: N-Nitrosomethylethylamine  
CAS #: 10595-95-6  
Report Date: 05/14/2004



Original Integration



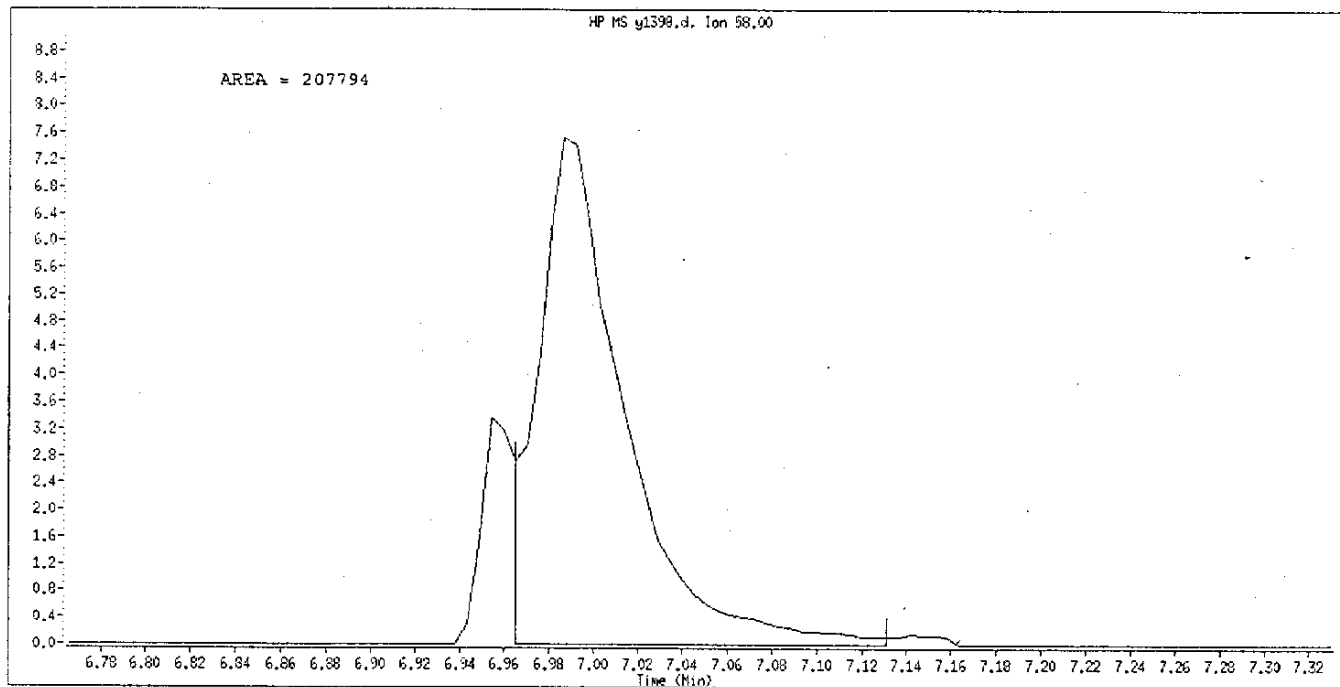
Manual Integration

Manually Integrated By: todear  
Manual Integration Reason: Split Peak

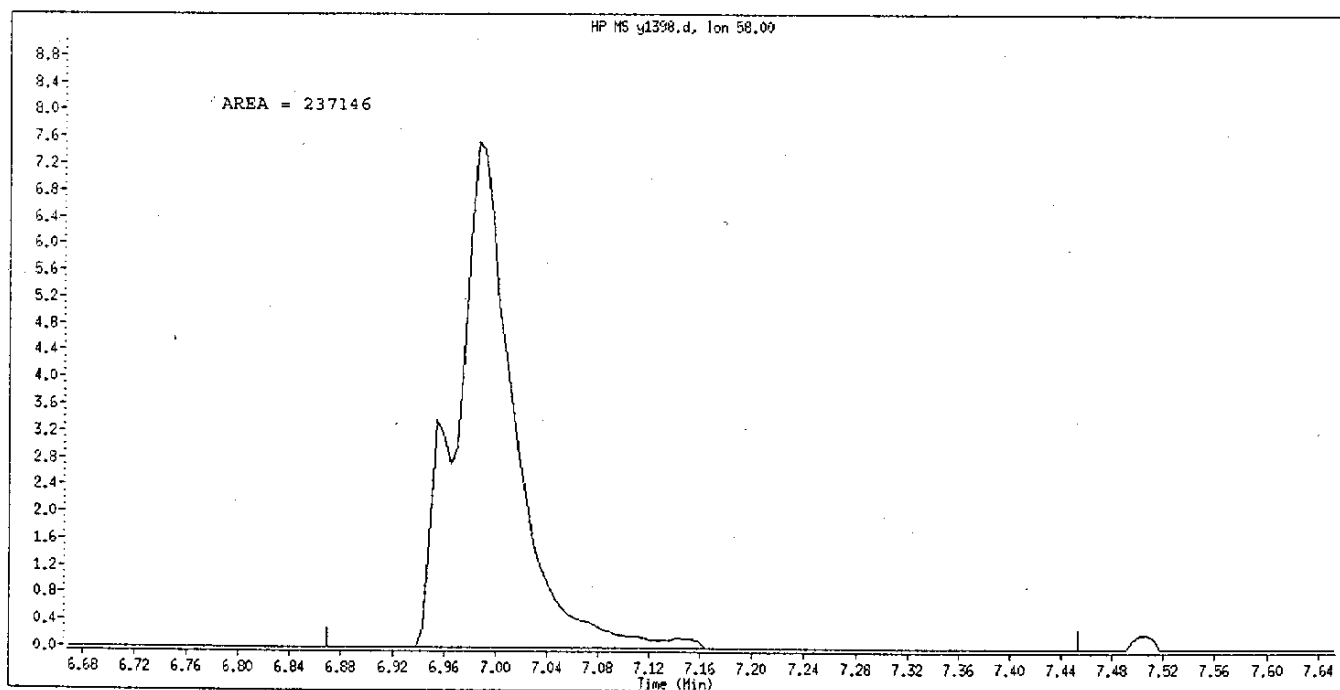
5/14/04  
LS

MLW  
05-14-04

Data File Name: y1398.d  
Inj. Date and Time: 13-MAY-2004 15:41  
Instrument ID: Y.i  
Client ID: AP9\_0020  
Compound Name: a,a-Dimethylphenethylamine  
CAS #: 122-09-8  
Report Date: 05/14/2004



Original Integration



Manual Integration

Manually Integrated By: todear  
Manual Integration Reason: Split Peak

5/14/04  
LS

MRK  
05-14-04

5/14/04  
5

STL-Denver

BNA ANALYSIS QUANTITATION REPORT

Data file : /chem/Y.i/051304.b/y1399.d  
Lab Smp Id: AP9\_0050 Client Smp ID: AP9\_0050  
Inj Date : 13-MAY-2004 16:08  
Operator : todear Inst ID: Y.i  
Smp Info : AP9\_0050,BNA1406,P:050404,E:073104  
Misc Info : 4118458  
Comment : SOP#CORP-MS-0001DEN, revision1.1  
Method : /chem/Y.i/051304.b/8270C.m  
Meth Date : 14-May-2004 10:31 todear Quant Type: ISTD  
Cal Date : 13-MAY-2004 16:08 Cal File: y1399.d  
Als bottle: 12 Calibration Sample, Level: 4  
Dil Factor: 1.00000  
Integrator: HP RTE Compound Sublist: 2-AP9std.sub  
Target Version: 3.50  
Processing Host: chemsv03

Concentration Formula: Amt \* DF \* Vf/Vs \* CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vf	1000.00000	final volume at end of extraction (uL)
Vs	1000.00000	volume of sample extracted (mL)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG	AMOUNTS					
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT	ON-COL
	=====	====	**	=====	=====	=====	=====
* 22 1,4-Dichlorobenzene-d4	152	5.917	5.917	(1.000)	159065	40.0000	
* 49 Naphthalene-d8	136	7.146	7.146	(1.000)	634398	40.0000	
* 83 Acenaphthene-d10	164	8.853	8.853	(1.000)	384061	40.0000	
* 117 Phenanthrene-d10	188	10.120	10.120	(1.000)	696107	40.0000	
* 142 Chrysene-d12	240	12.246	12.246	(1.000)	580375	40.0000	
* 151 Perylene-d12	264	13.743	13.743	(1.000)	429337	40.0000	
7 2-Picoline	93	4.210	4.210	(0.712)	252346	50.0000	54.8951
8 N-Nitrosomethylethylamine	88	4.318	4.318	(0.730)	115369	50.0000	53.2854(M)
9 Methyl methanesulfonate	80	4.586	4.586	(0.775)	71994	50.0000	55.0441
11 N-Nitrosodiethylamine	102	4.935	4.935	(0.834)	117466	50.0000	54.7722
13 Ethyl methanesulfonate	79	5.193	5.193	(0.878)	177245	50.0000	54.3881
19 Pentachloroethane	117	5.660	5.660	(0.956)	87244	50.0000	55.9919
31 N-Nitrosopyrrolidine	100	6.282	6.282	(1.062)	122128	50.0000	55.1922
34 N-Nitrosomorpholine	116	6.314	6.314	(1.067)	54906	50.0000	58.0139
35 o-Toluidine	106	6.325	6.325	(1.069)	376104	50.0000	55.4509

Compounds	QUANT SIG					AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)
=====	====	==	=====	=====	=====	=====	=====
39 N-Nitrosopiperidine	114	6.615	6.615	(0.926)	128395	50.0000	54.7624
44 O,O,O-Triethyl phosphorothio	198	6.814	6.814	(0.953)	143852	50.0000	55.7631
48 a,a-Dimethylphenethylamine	58	7.018	7.018	(0.982)	594485	50.0000	54.2870(M)
53 2,6-Dichlorophenol	162	7.222	7.222	(1.010)	220025	50.0000	55.6961
54 Hexachloropropene	213	7.238	7.238	(1.013)	154489	50.0000	55.6113
57 N-Nitrosodi-n-butylamine	84	7.501	7.501	(1.050)	164105	50.0000	55.4258
58 p-Phenylenediamine	108	7.570	7.570	(1.059)	254828	50.0000	58.5606
61 Safrole	162	7.737	7.737	(1.083)	214906	50.0000	56.1895
65 1,2,4,5-Tetrachlorobenzene	216	8.016	8.016	(1.122)	249659	50.0000	55.8816
66 Isosafrole (#1)	162	8.032	8.032	(0.907)	27234	8.75000	9.42950(a)
72 Isosafrole (#2)	104	8.258	8.258	(0.933)	100517	41.2500	45.7269
73 1-Chloronaphthalene	162	8.360	8.360	(0.944)	477812	50.0000	53.9446
75 1,4-Naphthoquinone	158	8.515	8.515	(0.962)	131223	50.0000	64.5016
78 1,4-Dinitrobenzene	168	8.564	8.564	(0.967)	81610	50.0000	56.2682
80 1,3-Dinitrobenzene	168	8.639	8.639	(0.976)	97082	50.0000	56.2720
89 Pentachlorobenzene	250	8.998	8.998	(1.016)	221348	50.0000	56.6621
90 1-Naphthylamine	143	9.116	9.116	(1.030)	516918	50.0000	55.8028
91 2,3,4,6-Tetrachlorophenol	232	9.143	9.143	(1.033)	153136	50.0000	58.2084
92 2-Naphthylamine	143	9.181	9.181	(1.037)	538365	50.0000	57.3080
98 Thionazin	97	9.256	9.256	(1.045)	112826	50.0000	57.4174
100 5-Nitro-o-toluidine	152	9.347	9.347	(1.056)	163539	50.0000	57.8177
182 Diphenylamine	169	9.412	9.412	(1.063)	495776	50.0000	55.4480
104 Sulfotepp	97	9.492	9.492	(0.938)	76199	50.0000	56.3421
105 1,3,5-Trinitrobenzene	213	9.648	9.648	(0.953)	45977	50.0000	55.6659
106 Diallate (#1)	86	9.621	9.621	(0.951)	182664	36.0000	39.6467
107 Phorate	121	9.637	9.637	(0.952)	102175	50.0000	56.8468
109 Phenacetin	108	9.659	9.659	(0.954)	231326	50.0000	58.2199
111 Diallate (#2)	86	9.701	9.701	(0.959)	40549	14.0000	14.7031
112 Dimethoate	87	9.803	9.803	(0.969)	166121	50.0000	58.1474
114 4-Aminobiphenyl	169	9.943	9.943	(0.982)	543675	50.0000	53.4458
115 Pentachloronitrobenzene	237	9.959	9.959	(0.984)	64299	50.0000	50.0682
116 Pronamide	173	9.948	9.948	(0.983)	196708	50.0000	52.9250
120 2-secbutyl-4,6-dinitropheno	211	10.061	10.061	(0.994)	107384	50.0000	55.2650
121 Disulfoton	88	10.056	10.056	(0.994)	231462	50.0000	56.2955
124 Methyl parathion	109	10.372	10.372	(1.025)	150484	50.0000	59.3612
126 Parathion	109	10.657	10.657	(1.053)	92733	50.0000	59.3416
127 4-Nitroquinoline-1-oxide	190	10.764	10.764	(1.064)	48193	50.0000	55.0717
128 Methapyrilene	97	10.748	10.748	(1.062)	128761	50.0000	60.4870
129 Isodrin	193	10.952	10.952	(1.082)	92424	50.0000	55.9117
134 Aramite (#1)	185	11.264	11.264	(0.920)	41145	23.0000	25.3960
135 Aramite (#2)	185	11.323	11.323	(0.925)	61326	27.0000	29.3690
136 p-Dimethylaminoazobenzene	120	11.446	11.446	(0.935)	193544	50.0000	57.4154
138 3,3'-Dimethylbenzidine	212	11.725	11.725	(0.957)	383274	50.0000	55.1235
139 2-Acetylaminofluorene	181	11.945	11.945	(0.975)	234468	50.0000	55.4792
149 7,12-Dimethylbenz(a)anthrac	256	13.233	13.233	(0.963)	295901	50.0000	55.2916
152 3-Methylcholanthrene	268	14.076	14.076	(1.024)	299633	50.0000	54.2242
153 Dibenz(a,j)acridine	279	14.978	14.978	(1.090)	383379	50.0000	52.7092

Compounds	QUANT SIG					AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)
=====	====	==	=====	=====	=====	=====	=====
M 1 Total Isosafrole	162				127751	50.0000	55.0901
M 2 Total Diallate	86				223213	50.0000	54.5475
M 3 Total Aramite	185				102471	50.0000	54.7874
165 Chlorobenzilate	251	11.457	11.457	(0.936)	217507	50.0000	56.9083
199 1,4-Dioxane	88	3.174	3.174	(0.536)	98381	50.0000	53.6282
175 Biphenyl	154	8.301	8.301	(0.938)	626921	50.0000	55.6158

#### QC Flag Legend

- a - Target compound detected but, quantitated amount  
Below Limit Of Quantitation(BLOQ).
- M - Compound response manually integrated.

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INTERNAL STANDARD COMPOUNDS  
AREA AND RT SUMMARY

Instrument ID: Y.i  
Lab File ID: y1399.d  
Lab Smp Id: AP9 0050  
Analysis Type: SV  
Quant Type: ISTD  
Operator: todear  
Method File: /chem/Y.i/051304.b/8270C.m  
Misc Info: 4118458

Calibration Date: 13-MAY-2004  
Calibration Time: 14:48  
Client Smp ID: AP9\_0050  
Level: LOW  
Sample Type: WATER

Test Mode:  
Use Last Continuing Calibrator.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
=====	=====	=====	=====	=====	=====
22 1,4-Dichlorobenze	162998	81499	325996	159065	-2.41
49 Naphthalene-d8	638638	319319	1277276	634398	-0.66
83 Acenaphthene-d10	386064	193032	772128	384061	-0.52
117 Phenanthrene-d10	680326	340163	1360652	696107	2.32
142 Chrysene-d12	508928	254464	1017856	580375	14.04
151 Perylene-d12	379385	189692	758770	429337	13.17

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
=====	=====	=====	=====	=====	=====
22 1,4-Dichlorobenze	5.92	5.42	6.42	5.92	-0.03
49 Naphthalene-d8	7.15	6.65	7.65	7.15	-0.02
83 Acenaphthene-d10	8.86	8.36	9.36	8.85	-0.08
117 Phenanthrene-d10	10.12	9.62	10.62	10.12	-0.02
142 Chrysene-d12	12.27	11.77	12.77	12.25	-0.19
151 Perylene-d12	13.77	13.27	14.27	13.74	-0.21

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/Y.i/051304.b/y1399.d

Date : 13-MAY-2004 16:08

Client ID: AP9\_0050

Sample Info: AP9\_0050,BNA1406,P:050404,E:073104

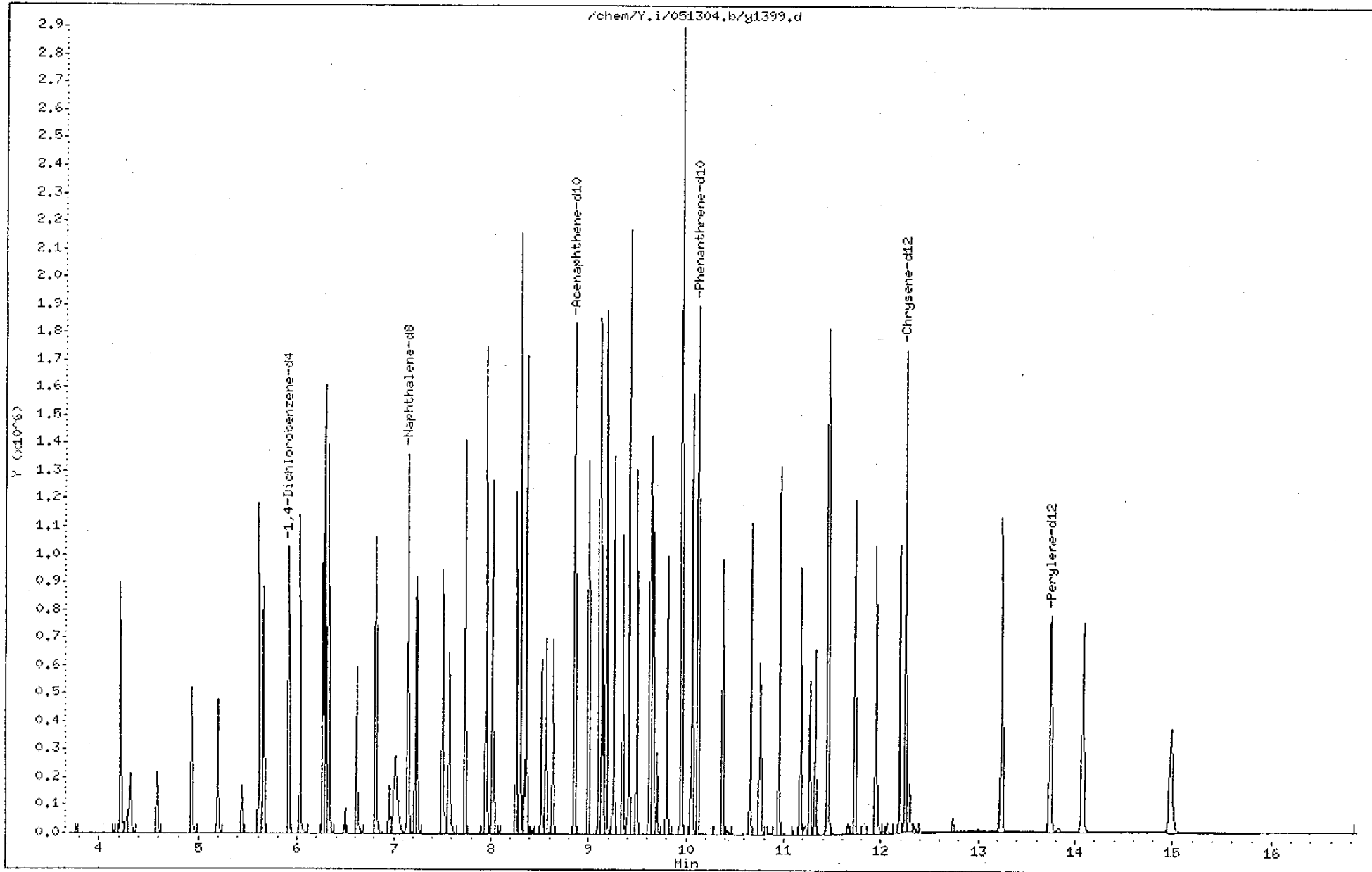
Volume Injected (uL): 0.5

Column phase: Rtx-5ms 30m 0.5um

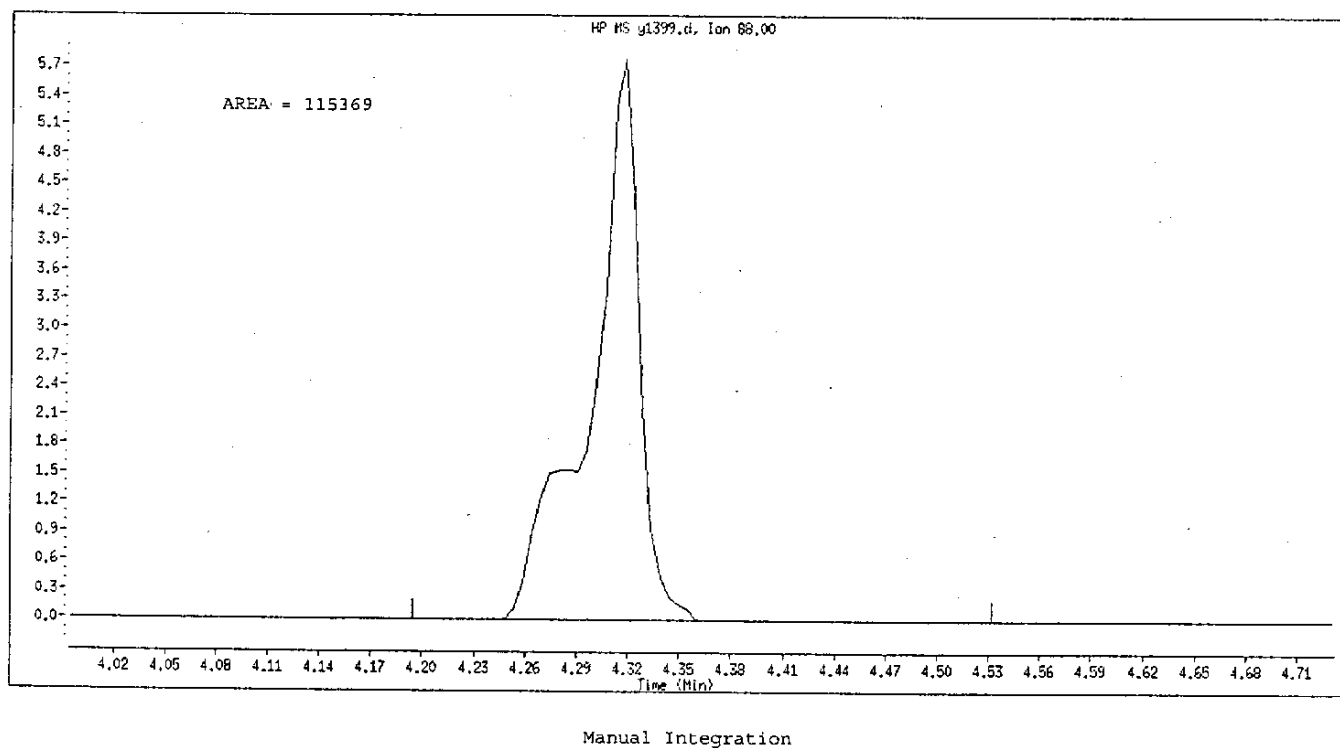
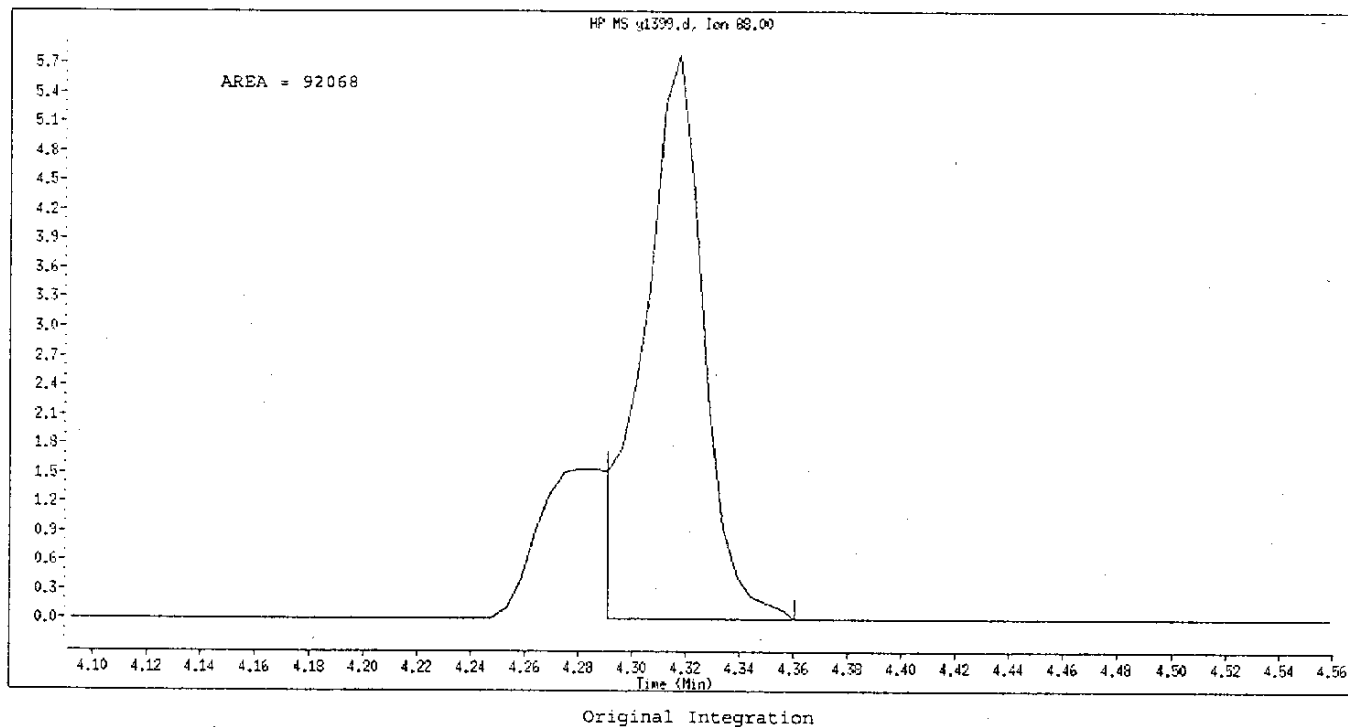
Instrument: Y.i

Operator: todear

Column diameter: 0.25



Data File Name: y1399.d  
Inj. Date and Time: 13-MAY-2004 16:08  
Instrument ID: Y.i  
Client ID: AP9\_0050  
Compound Name: N-Nitrosomethylethylamine  
CAS #: 10595-95-6  
Report Date: 05/14/2004

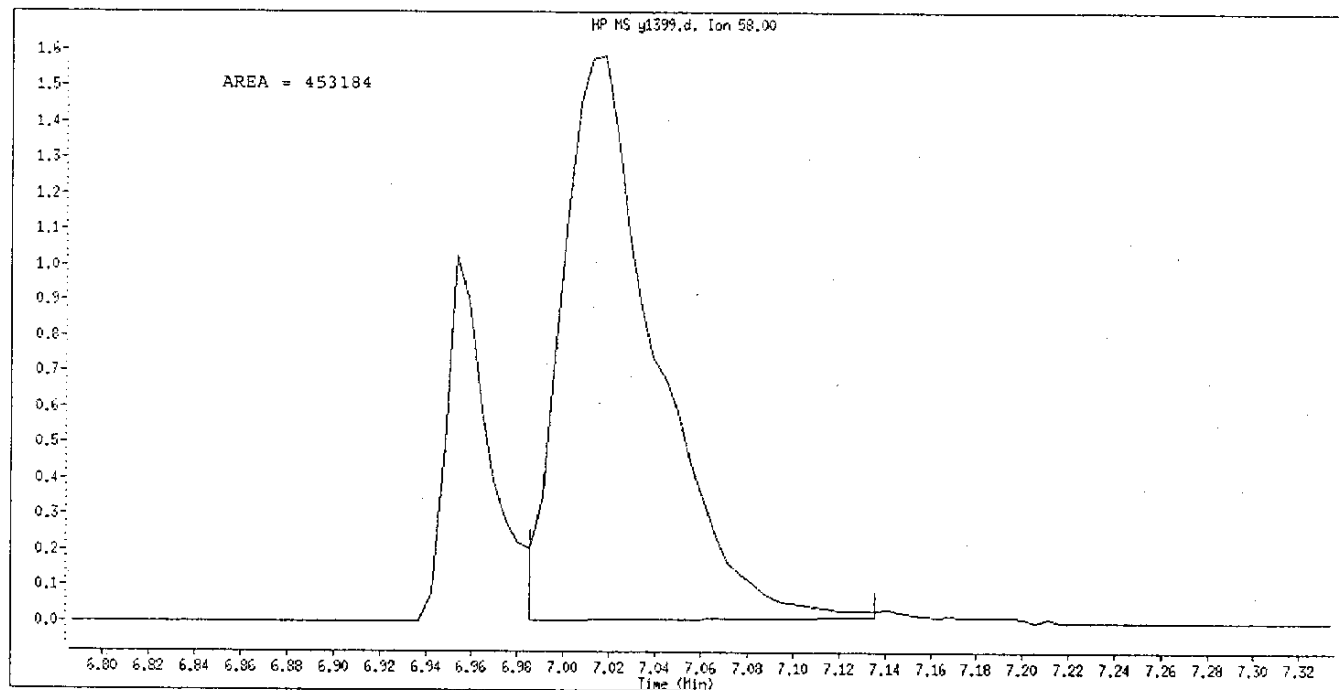


Manually Integrated By: todear  
Manual Integration Reason: Split Peak

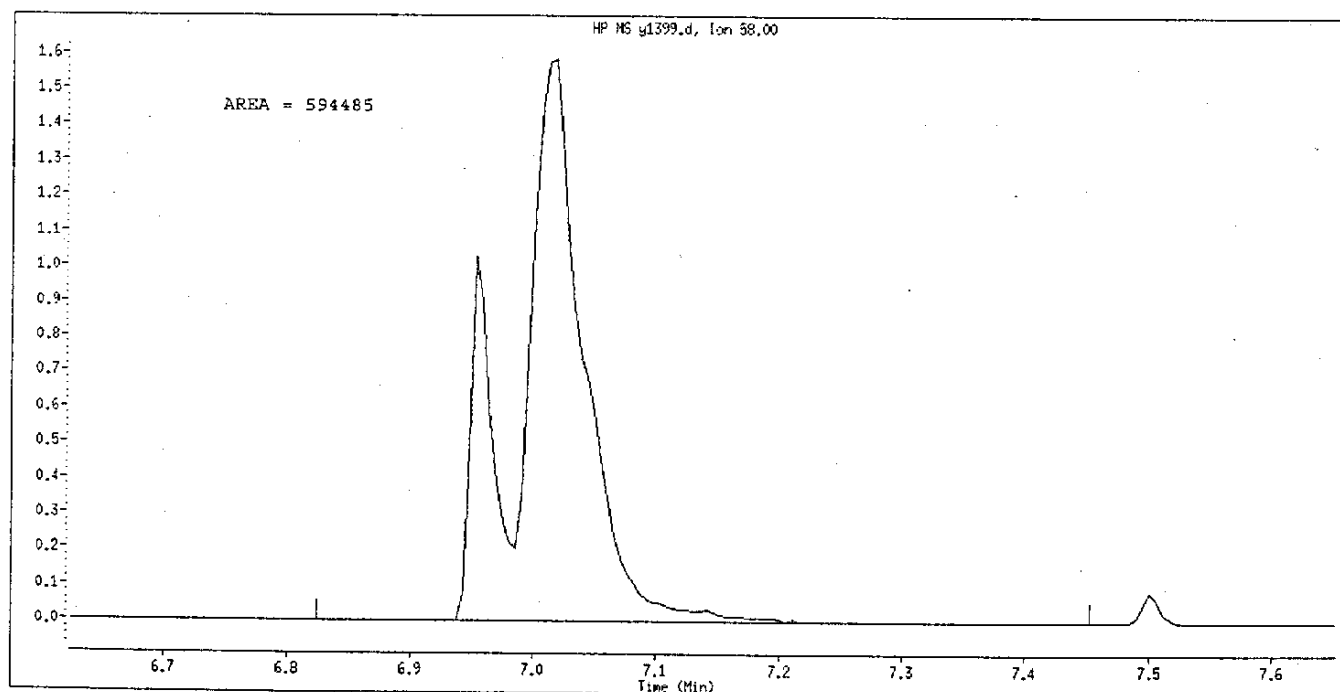
5/14/04  
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05-14-04

Data File Name: y1399.d  
Inj. Date and Time: 13-MAY-2004 16:08  
Instrument ID: Y.i  
Client ID: AP9\_0050  
Compound Name: a,a-Dimethylphenethylamine  
CAS #: 122-09-8  
Report Date: 05/14/2004



Original Integration



Manual Integration

Manually Integrated By: todear  
Manual Integration Reason: Split Peak

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05-14-04

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BNA ANALYSIS QUANTITATION REPORT

Data file : /chem/Y.i/051304.b/y1400.d  
Lab Smp Id: AP9\_0120 Client Smp ID: AP9\_0120  
Inj Date : 13-MAY-2004 16:35  
Operator : todear Inst ID: Y.i  
Smp Info : AP9\_0120,BNA1406,P:050404,E:073104  
Misc Info : 4118458  
Comment : SOP#CORP-MS-0001DEN, revision1.1  
Method : /chem/Y.i/051304.b/8270C.m  
Meth Date : 14-May-2004 10:32 todear Quant Type: ISTD  
Cal Date : 13-MAY-2004 16:35 Cal File: y1400.d  
Als bottle: 13 Calibration Sample, Level: 6  
Dil Factor: 1.00000 Compound Sublist: 2-AP9std.sub  
Integrator: HP RTE  
Target Version: 3.50  
Processing Host: chemsv03

Concentration Formula: Amt \* DF \* Vf/Vs \* CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vf	1000.00000	final volume at end of extraction (uL)
Vs	1000.00000	volume of sample extracted (mL)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG						AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE		CAL-AMT	ON-COL
							(ug/ml)	(ug/ml)
* 22 1,4-Dichlorobenzene-d4	152	5.913	5.913	(1.000)	160658		40.0000	
* 49 Naphthalene-d8	136	7.147	7.147	(1.000)	636930		40.0000	
* 83 Acenaphthene-d10	164	8.854	8.854	(1.000)	361457		40.0000	
* 117 Phenanthrene-d10	188	10.115	10.115	(1.000)	601224		40.0000	
* 142 Chrysene-d12	240	12.225	12.225	(1.000)	452723		40.0000	
* 151 Perylene-d12	264	13.723	13.723	(1.000)	336866		40.0000	
7 2-Picoline	93	4.211	4.211	(0.712)	536269		120.000	115.503
8 N-Nitrosomethylethylamine	88	4.318	4.318	(0.730)	259736		120.000	118.774 (M)
9 Methyl methanesulfonate	80	4.587	4.587	(0.776)	155673		120.000	117.842
11 N-Nitrosodiethylamine	102	4.936	4.936	(0.835)	255334		120.000	117.877
13 Ethyl methanesulfonate	79	5.199	5.199	(0.879)	382604		120.000	116.239
19 Pentachloroethane	117	5.660	5.660	(0.957)	180842		120.000	114.911
31 N-Nitrosopyrrolidine	100	6.288	6.288	(1.064)	251576		120.000	112.565
34 N-Nitrosomorpholine	116	6.320	6.320	(1.069)	110550		120.000	115.649
35 o-Toluidine	106	6.326	6.326	(1.070)	747879		120.000	109.170

Compounds	QUANT SIG					AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)
-----	----	--	-----	-----	-----	-----	-----
39 N-Nitrosopiperidine	114	6.616	6.616	(0.926)	272921	120.000	115.942
44 O,O,O-Triethyl phosphorothio	198	6.814	6.814	(0.953)	296530	120.000	114.491
48 a,a-Dimethylphenethylamine	58	7.045	7.045	(0.986)	1112848	120.000	101.219(M)
53 2,6-Dichlorophenol	162	7.217	7.217	(1.010)	455945	120.000	114.957
54 Hexachloropropene	213	7.238	7.238	(1.013)	327118	120.000	117.284
57 N-Nitrosodi-n-butylamine	84	7.501	7.501	(1.050)	335811	120.000	112.968
58 p-Phenylenediamine	108	7.571	7.571	(1.059)	449968	120.000	102.994
61 Safrole	162	7.738	7.738	(1.083)	427827	120.000	111.415
65 1,2,4,5-Tetrachlorobenzene	216	8.011	8.011	(1.121)	492457	120.000	109.789
66 Isosafrole (#1)	162	8.027	8.027	(0.907)	59215	21.0000	21.7848
72 Isosafrole (#2)	104	8.253	8.253	(0.932)	200782	99.0000	97.0511
73 1-Chloronaphthalene	162	8.366	8.366	(0.945)	952510	120.000	114.262
75 1,4-Naphthoquinone	158	8.511	8.511	(0.961)	190812	120.000	99.6574
78 1,4-Dinitrobenzene	168	8.564	8.564	(0.967)	163843	120.000	120.030
80 1,3-Dinitrobenzene	168	8.634	8.634	(0.975)	186131	120.000	114.635
89 Pentachlorobenzene	250	8.999	8.999	(1.016)	406950	120.000	110.688
90 1-Naphthylamine	143	9.117	9.117	(1.030)	882895	120.000	115.566
91 2,3,4,6-Tetrachlorophenol	232	9.144	9.144	(1.033)	268549	120.000	108.461
92 2-Naphthylamine	143	9.181	9.181	(1.037)	927921	120.000	104.952
98 Thionazin	97	9.257	9.257	(1.045)	199770	120.000	108.021
100 5-Nitro-o-toluidine	152	9.353	9.353	(1.056)	290600	120.000	109.164
182 Diphenylamine	169	9.412	9.412	(1.063)	851583	120.000	115.067
104 Sulfotepp	97	9.493	9.493	(0.938)	132777	120.000	113.670
105 1,3,5-Trinitrobenzene	213	9.648	9.648	(0.954)	84388	120.000	118.296
106 Diallate (#1)	86	9.622	9.622	(0.951)	329525	86.4000	82.8099
107 Phorate	121	9.638	9.638	(0.953)	174227	120.000	112.232
109 Phenacetin	108	9.665	9.665	(0.955)	386038	120.000	112.491
111 Diallate (#2)	86	9.702	9.702	(0.959)	76765	33.6000	32.2278
112 Dimethoate	87	9.810	9.810	(0.970)	273879	120.000	110.995
114 4-Aminobiphenyl	169	9.944	9.944	(0.983)	815716	120.000	117.881
115 Pentachloronitrobenzene	237	9.960	9.960	(0.985)	105932	120.000	119.482
116 Pronamide	173	9.949	9.949	(0.984)	295607	120.000	117.747
120 2-secbutyl-4,6-dinitrophenol	211	10.067	10.067	(0.995)	202209	120.000	113.452
121 Disulfoton	88	10.056	10.056	(0.994)	389893	120.000	109.794
124 Methyl parathion	109	10.368	10.368	(1.025)	249881	120.000	114.126
126 Parathion	109	10.652	10.652	(1.053)	155987	120.000	115.572
127 4-Nitroquinoline-1-oxide	190	10.760	10.760	(1.064)	85815	120.000	113.540(Q)
128 Methapyrilene	97	10.749	10.749	(1.063)	212806	120.000	115.745
129 Isodrin	193	10.947	10.947	(1.082)	158037	120.000	110.692
134 Aramite (#1)	185	11.259	11.259	(0.921)	66687	55.2000	52.7673
135 Aramite (#2)	185	11.312	11.312	(0.925)	101174	64.8000	62.1140
136 p-Dimethylaminoazobenzene	120	11.436	11.436	(0.935)	288247	120.000	109.620
138 3,3'-Dimethylbenzidine	212	11.715	11.715	(0.958)	636800	120.000	117.410
139 2-Acetylaminofluorene	181	11.930	11.930	(0.976)	406007	120.000	123.156
149 7,12-Dimethylbenz(a)anthrac	256	13.218	13.218	(0.963)	491171	120.000	116.973
152 3-Methylcholanthrene	268	14.055	14.055	(1.024)	509012	120.000	117.401
153 Dibenz(a,j)acridine	279	14.952	14.952	(1.090)	686815	120.000	120.348

Compounds	QUANT SIG					AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)
=====	=====	==	=====	=====	=====	=====	=====
M 1 Total Isosafrole	162				259997	120.000	119.130
M 2 Total Diallate	86				406290	120.000	114.956
M 3 Total Aramite	185				167861	120.000	115.055
165 Chlorobenzilate	251	11.447	11.447	(0.936)	324519	120.000	108.848
199 1,4-Dioxane	88	3.175	3.175	(0.537)	210402	120.000	113.554
175 Biphenyl	154	8.301	8.301	(0.938)	1174421	120.000	110.701

QC Flag Legend

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

STL-Denver

INTERNAL STANDARD COMPOUNDS  
AREA AND RT SUMMARY

Instrument ID: Y.i  
Lab File ID: y1400.d  
Lab Smp Id: AP9\_0120  
Analysis Type: SV  
Quant Type: ISTD  
Operator: todear  
Method File: /chem/Y.i/051304.b/8270C.m  
Misc Info: 4118458

Calibration Date: 13-MAY-2004  
Calibration Time: 14:48  
Client Smp ID: AP9\_0120  
Level: LOW  
Sample Type: WATER

Test Mode:  
Use Last Continuing Calibrator.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
22 1,4-Dichlorobenze	162998	81499	325996	160658	-1.44
49 Naphthalene-d8	638638	319319	1277276	636930	-0.27
83 Acenaphthene-d10	386064	193032	772128	361457	-6.37
117 Phenanthrene-d10	680326	340163	1360652	601224	-11.63
142 Chrysene-d12	508928	254464	1017856	452723	-11.04
151 Perylene-d12	379385	189692	758770	336866	-11.21

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
22 1,4-Dichlorobenze	5.92	5.42	6.42	5.91	-0.11
49 Naphthalene-d8	7.15	6.65	7.65	7.15	-0.01
83 Acenaphthene-d10	8.86	8.36	9.36	8.85	-0.07
117 Phenanthrene-d10	10.12	9.62	10.62	10.12	-0.06
142 Chrysene-d12	12.27	11.77	12.77	12.22	-0.36
151 Perylene-d12	13.77	13.27	14.27	13.72	-0.36

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/Y.i/051304.b/y1400.d

Page 5

Date : 13-MAY-2004 16:35

Client ID: AP9\_0120

Instrument: Y.i

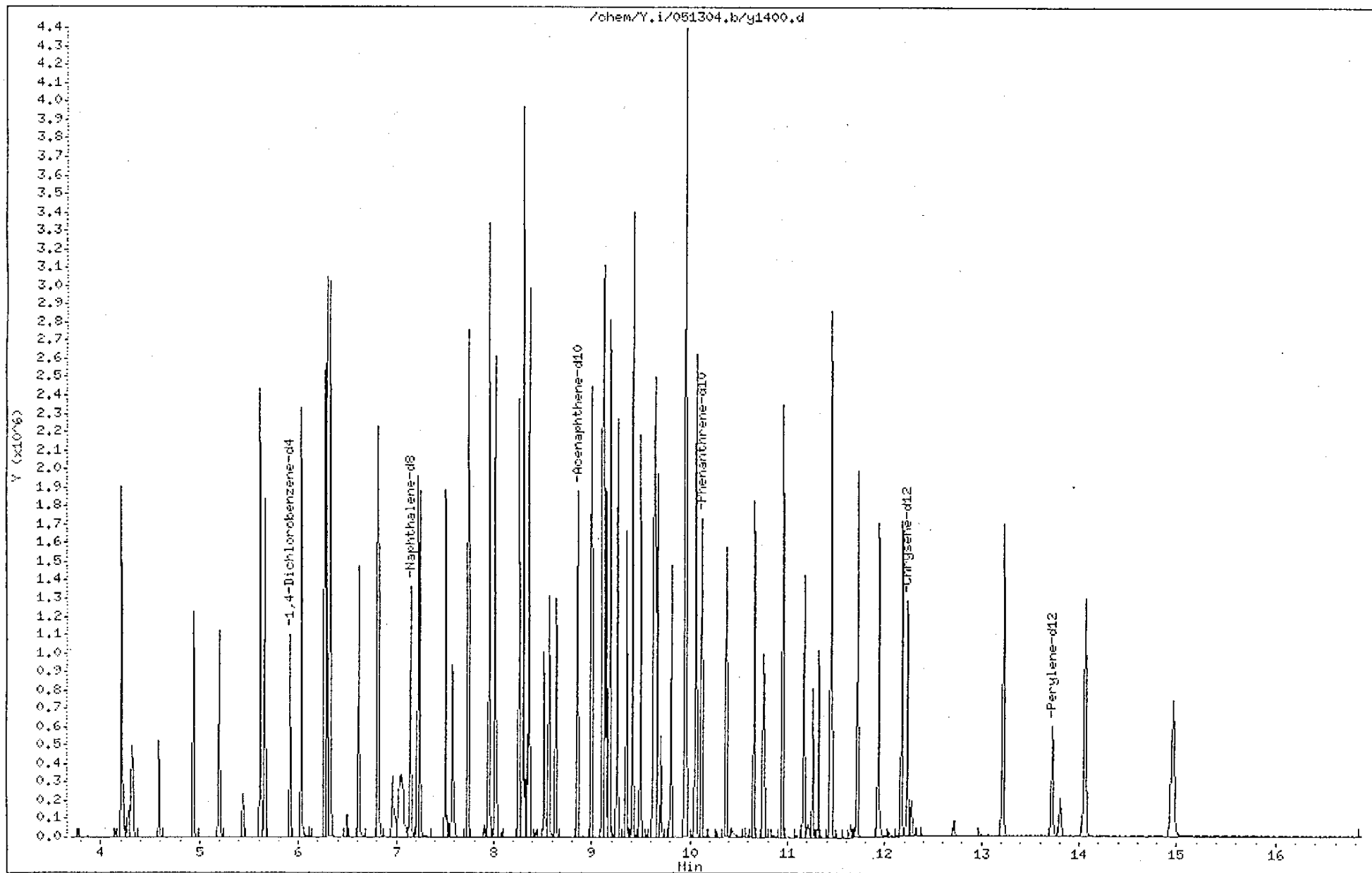
Sample Info: AP9\_0120,BNA1406,P:050404,E:073104

Volume Injected (µL): 0.5

Operator: todear

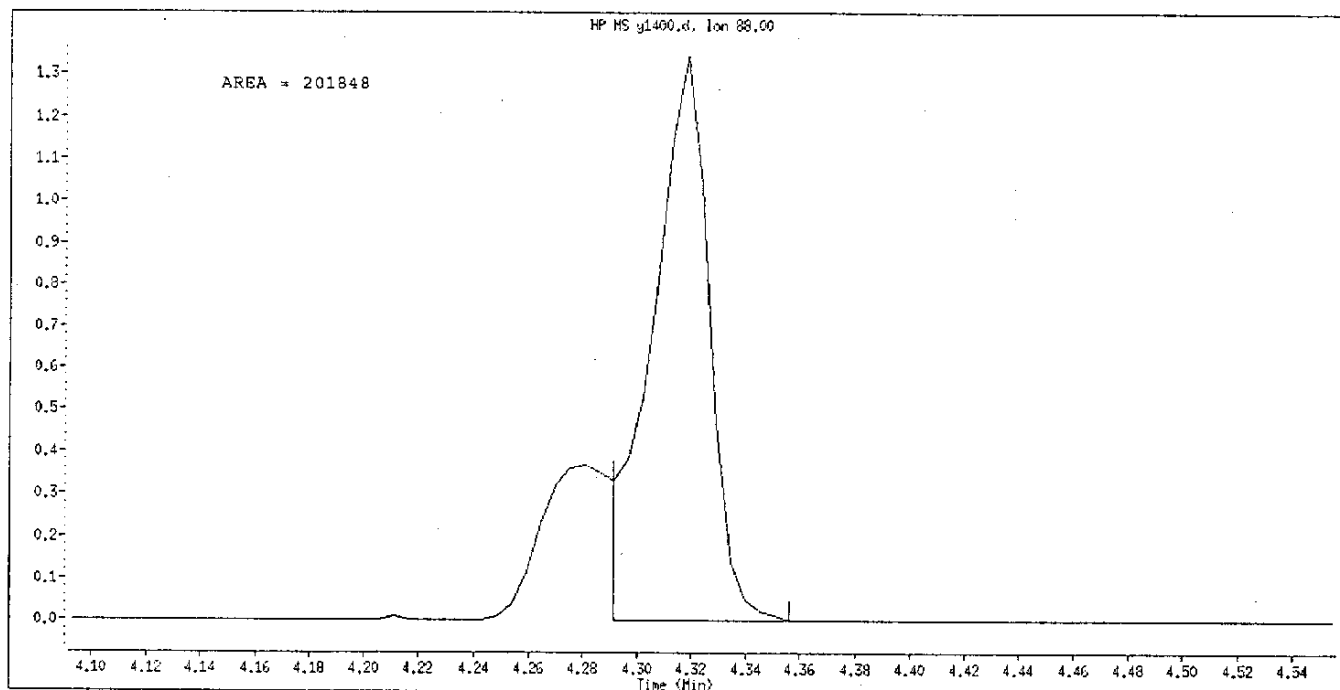
Column phase: Rtx-5ms 30m 0.5um

Column diameter: 0.25

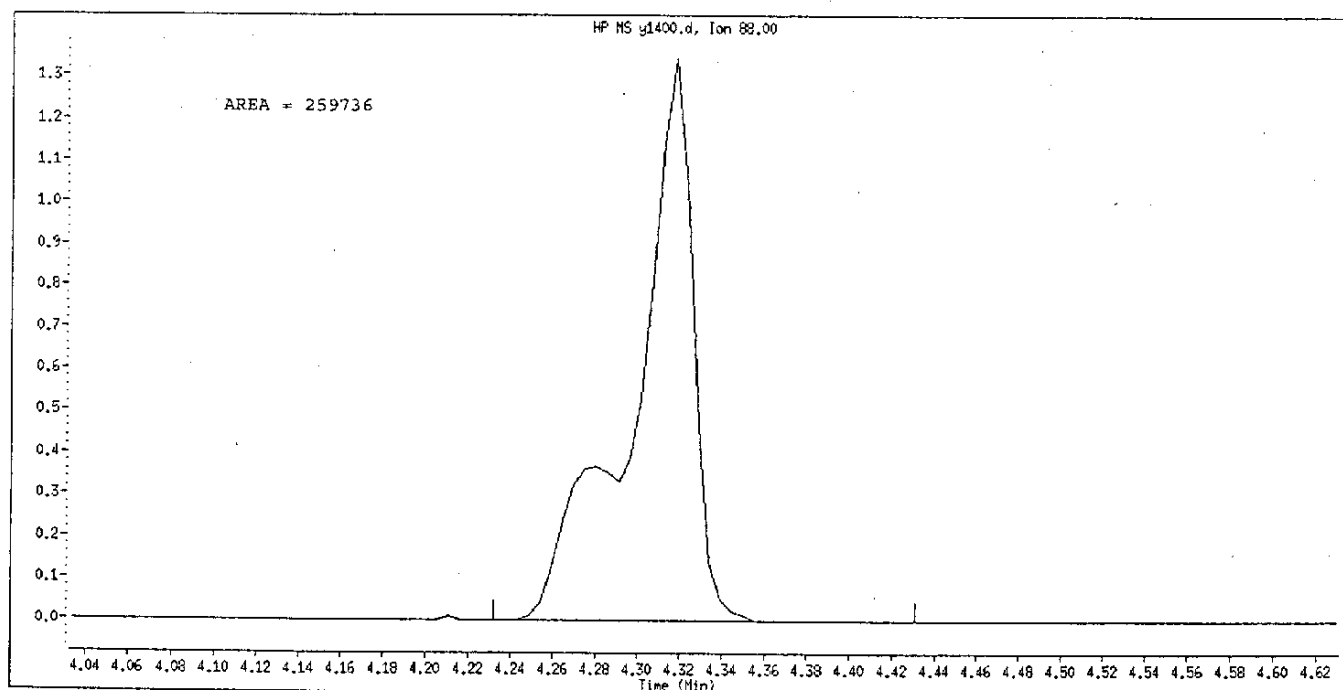




Data File Name: y1400.d  
Inj. Date and Time: 13-MAY 2004 16:35  
Instrument ID: Y.1  
Client ID: AP9\_0120  
Compound Name: N-Nitrosomethylethylamine  
CAS #: 10595-95-6  
Report Date: 05/14/2004



Original Integration



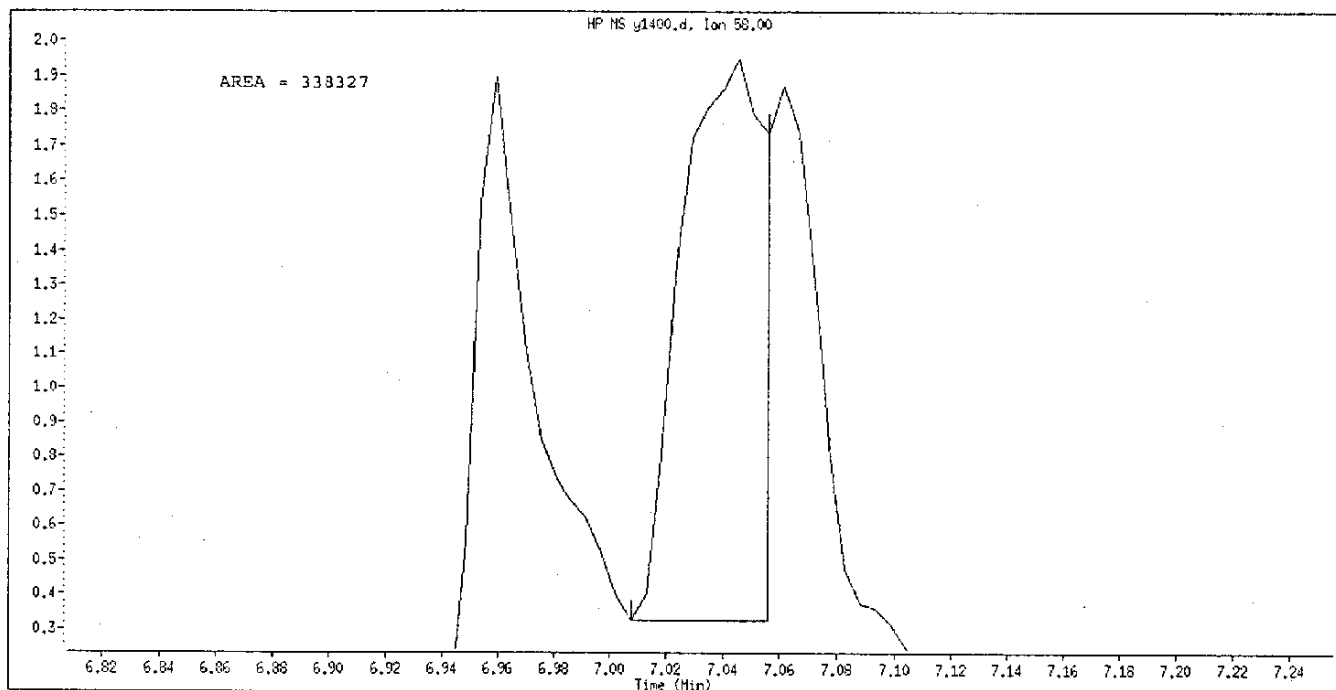
Manual Integration

Manually Integrated By: todear  
Manual Integration Reason: Split Peak

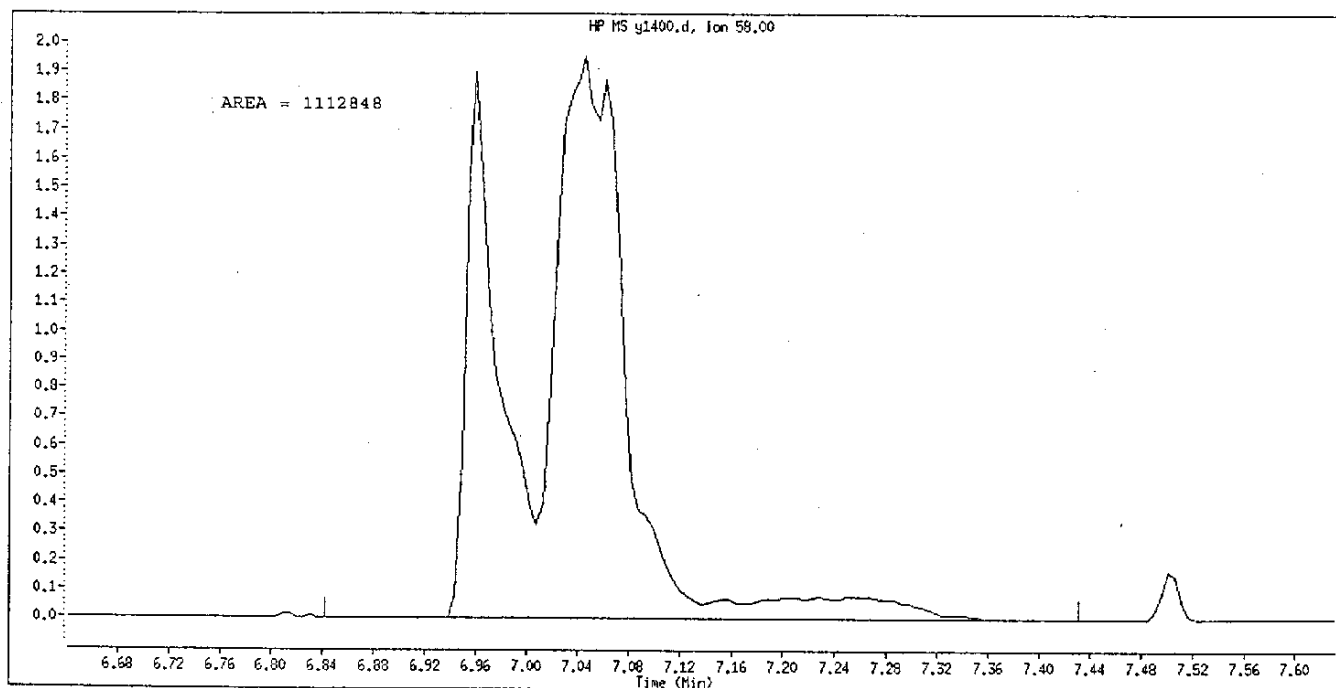
5/14/04  
LS

mm  
05-14-04

Data File Name: y1400.d  
Inj. Date and Time: 13-MAY-2004 16:35  
Instrument ID: Y.1  
Client ID: AP9\_0120  
Compound Name: a,a-Dimethylphenethylamine  
CAS #: 122-09-8  
Report Date: 05/14/2004



Original Integration



Manual Integration

Manually Integrated By: todear  
Manual Integration Reason: Split Peak

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05-14-04

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5/14/04  
65

BNA ANALYSIS QUANTITATION REPORT

Data file : /chem/Y.i/051304.b/y1401.d  
Lab Smp Id: AP9\_0160 Client Smp ID: AP9\_0160  
Inj Date : 13-MAY-2004 17:01  
Operator : todear Inst ID: Y.i  
Smp Info : AP9\_0160,BNA1406,P:050404,E:073104  
Misc Info : 4118458  
Comment : SOP#CORP-MS-0001DEN, revision1.1  
Method : /chem/Y.i/051304.b/8270C.m  
Meth Date : 14-May-2004 10:33 todear Quant Type: ISTD  
Cal Date : 13-MAY-2004 17:01 Cal File: y1401.d  
Als bottle: 14 Calibration Sample, Level: 7  
Dil Factor: 1.00000  
Integrator: HP RTE Compound Sublist: 2-AP9std.sub  
Target Version: 3.50  
Processing Host: chemsv03

Concentration Formula: Amt \* DF \* Vf/Vs \* CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vf	1000.00000	final volume at end of extraction (uL)
Vs	1000.00000	volume of sample extracted (mL)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG						AMOUNTS	
		MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)
*****	****	==	=====	=====	=====	=====	=====	=====
* 22 1,4-Dichlorobenzene-d4	152	5.917	5.917	(1.000)	159781	40.0000		
* 49 Naphthalene-d8	136	7.147	7.147	(1.000)	627752	40.0000		
* 83 Acenaphthene-d10	164	8.854	8.854	(1.000)	370239	40.0000		
* 117 Phenanthrene-d10	188	10.120	10.120	(1.000)	606313	40.0000		
* 142 Chrysene-d12	240	12.241	12.241	(1.000)	445529	40.0000		
* 151 Perylene-d12	264	13.738	13.738	(1.000)	326979	40.0000		
7 2-Picoline	93	4.210	4.210	(0.712)	706299	160.000	152.959	
8 N-Nitrosomethylethylamine	88	4.318	4.318	(0.730)	352539	160.000	162.097(M)	
9 Methyl methanesulfonate	80	4.592	4.592	(0.776)	206828	160.000	157.425	
11 N-Nitrosodiethylamine	102	4.940	4.940	(0.835)	339540	160.000	157.612	
13 Ethyl methanesulfonate	79	5.203	5.203	(0.879)	506427	160.000	154.702	
19 Pentachloroethane	117	5.660	5.660	(0.956)	236741	160.000	151.256	
31 N-Nitrosopyrrolidine	100	6.293	6.293	(1.063)	332376	160.000	149.535	
34 N-Nitrosomorpholine	116	6.320	6.320	(1.068)	140832	160.000	148.137	
35 o-Toluidine	106	6.331	6.331	(1.070)	948475	160.000	139.212	

Compounds	QUANT SIG					AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)
=====	====	==	=====	=====	=====	=====	=====
39 N-Nitrosopiperidine	114	6.621	6.621	(0.926)	360867	160.000	155.545
44 O,O,O-Triethyl phosphorothio	198	6.814	6.814	(0.953)	383450	160.000	150.215
48 a,a-Dimethylphenethylamine	58	7.088	7.088	(0.992)	1580633	160.000	145.868(M)
53 2,6-Dichlorophenol	162	7.222	7.222	(1.010)	589350	160.000	150.765
54 Hexachloropropene	213	7.243	7.243	(1.014)	422656	160.000	153.754
57 N-Nitrosodi-n-butylamine	84	7.506	7.506	(1.050)	442453	160.000	151.019
58 p-Phenylenediamine	108	7.576	7.576	(1.060)	595836	160.000	138.375
61 Safrole	162	7.737	7.737	(1.083)	547604	160.000	144.693
65 1,2,4,5-Tetrachlorobenzene	216	8.016	8.016	(1.122)	624362	160.000	141.232
66 Isosafrole (#1)	162	8.032	8.032	(0.907)	80980	28.0000	29.0853
72 Isosafrole (#2)	104	8.258	8.258	(0.933)	261027	132.000	123.179
73 1-Chloronaphthalene	162	8.365	8.365	(0.945)	1207107	160.000	141.369
75 1,4-Naphthoquinone	158	8.515	8.515	(0.962)	292005	160.000	148.891
78 1,4-Dinitrobenzene	168	8.569	8.569	(0.968)	227719	160.000	162.868
80 1,3-Dinitrobenzene	168	8.639	8.639	(0.976)	257310	160.000	154.714
89 Pentachlorobenzene	250	8.998	8.998	(1.016)	526460	160.000	139.798
90 1-Naphthylamine	143	9.122	9.122	(1.030)	1137255	160.000	154.632
91 2,3,4,6-Tetrachlorophenol	232	9.143	9.143	(1.033)	362118	160.000	142.783
92 2-Naphthylamine	143	9.186	9.186	(1.038)	1203793	160.000	132.925
98 Thionazin	97	9.261	9.261	(1.046)	268496	160.000	141.739
100 5-Nitro-o-toluidine	152	9.358	9.358	(1.057)	396735	160.000	145.498
182 Diphenylamine	169	9.417	9.417	(1.064)	1109740	160.000	156.137
104 Sulfotepp	97	9.492	9.492	(0.938)	170396	160.000	144.651
105 1,3,5-Trinitrobenzene	213	9.648	9.648	(0.953)	119019	160.000	165.441
106 Diallate (#1)	86	9.621	9.621	(0.951)	442684	115.200	110.313
107 Phorate	121	9.637	9.637	(0.952)	225802	160.000	144.234
109 Phenacetin	108	9.675	9.675	(0.956)	524620	160.000	151.590
111 Diallate (#2)	86	9.702	9.702	(0.959)	108830	44.8000	45.3060
112 Dimethoate	87	9.814	9.814	(0.970)	360031	160.000	144.685
114 4-Aminobiphenyl	169	9.949	9.949	(0.983)	1010048	160.000	161.788
115 Pentachloronitrobenzene	237	9.959	9.959	(0.984)	132438	160.000	165.962
116 Pronamide	173	9.954	9.954	(0.984)	363456	160.000	160.446
120 2-secbutyl-4,6-dinitropheno	211	10.067	10.067	(0.995)	284377	160.000	155.861
121 Disulfoton	88	10.056	10.056	(0.994)	510891	160.000	142.660
124 Methyl parathion	109	10.373	10.373	(1.025)	328625	160.000	148.830
126 Parathion	109	10.657	10.657	(1.053)	216062	160.000	158.738
127 4-Nitroquinoline-1-oxide	190	10.764	10.764	(1.064)	118958	160.000	156.069(Q)
128 Methapyrilene	97	10.754	10.754	(1.063)	267543	160.000	144.295
129 Isodrin	193	10.952	10.952	(1.082)	206437	160.000	143.379
134 Aramite (#1)	185	11.264	11.264	(0.920)	96014	73.6000	77.1996
135 Aramite (#2)	185	11.323	11.323	(0.925)	140326	86.4000	87.5418
136 p-Dimethylaminoazobenzene	120	11.446	11.446	(0.935)	372091	160.000	143.791
138 3,3'-Dimethylbenzidine	212	11.725	11.725	(0.958)	803683	160.000	150.572
139 2-Acetylaminofluorene	181	11.951	11.951	(0.976)	544139	160.000	167.722
149 7,12-Dimethylbenz(a)anthrac	256	13.234	13.234	(0.963)	629029	160.000	154.334
152 3-Methylcholanthrene	268	14.076	14.076	(1.025)	670699	160.000	159.371
153 Dibenz(a,j)acridine	279	14.978	14.978	(1.090)	920167	160.000	166.113

Compounds	QUANT SIG					AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)
-----	----	--	-----	-----	-----	-----	-----
M 1 Total Isosafrole	162				342007	160.000	152.990
M 2 Total Diallate	86				551514	160.000	154.736
M 3 Total Aramite	185				236340	160.000	164.608
165 Chlorobenzilate	251	11.457	11.457	(0.936)	423370	160.000	144.296
199 1,4-Dioxane	88	3.174	3.174	(0.536)	283658	160.000	153.931
175 Biphenyl	154	8.306	8.306	(0.938)	1512690	160.000	139.204

#### QC Flag Legend

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

STL-Denver

INTERNAL STANDARD COMPOUNDS  
AREA AND RT SUMMARY

Instrument ID: Y.i  
Lab File ID: y1401.d  
Lab Smp Id: AP9\_0160  
Analysis Type: SV  
Quant Type: ISTD  
Operator: todear  
Method File: /chem/Y.i/051304.b/8270C.m  
Misc Info: 4118458

Calibration Date: 13-MAY-2004  
Calibration Time: 14:48  
Client Smp ID: AP9\_0160  
Level: LOW  
Sample Type: WATER

Test Mode:  
Use Last Continuing Calibrator.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
22 1,4-Dichlorobenze	162998	81499	325996	159781	-1.97
49 Naphthalene-d8	638638	319319	1277276	627752	-1.70
83 Acenaphthene-d10	386064	193032	772128	370239	-4.10
117 Phenanthrene-d10	680326	340163	1360652	606313	-10.88
142 Chrysene-d12	508928	254464	1017856	445529	-12.46
151 Perylene-d12	379385	189692	758770	326979	-13.81

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
22 1,4-Dichlorobenze	5.92	5.42	6.42	5.92	-0.02
49 Naphthalene-d8	7.15	6.65	7.65	7.15	-0.02
83 Acenaphthene-d10	8.86	8.36	9.36	8.85	-0.08
117 Phenanthrene-d10	10.12	9.62	10.62	10.12	-0.01
142 Chrysene-d12	12.27	11.77	12.77	12.24	-0.23
151 Perylene-d12	13.77	13.27	14.27	13.74	-0.24

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/Y.i/051304.b/y1401.d

Date : 13-MAY-2004 17:01

Client ID: AP9\_0160

Sample Info: AP9\_0160,BNA1406,P:050404,E:073104

Volume Injected (uL): 0.5

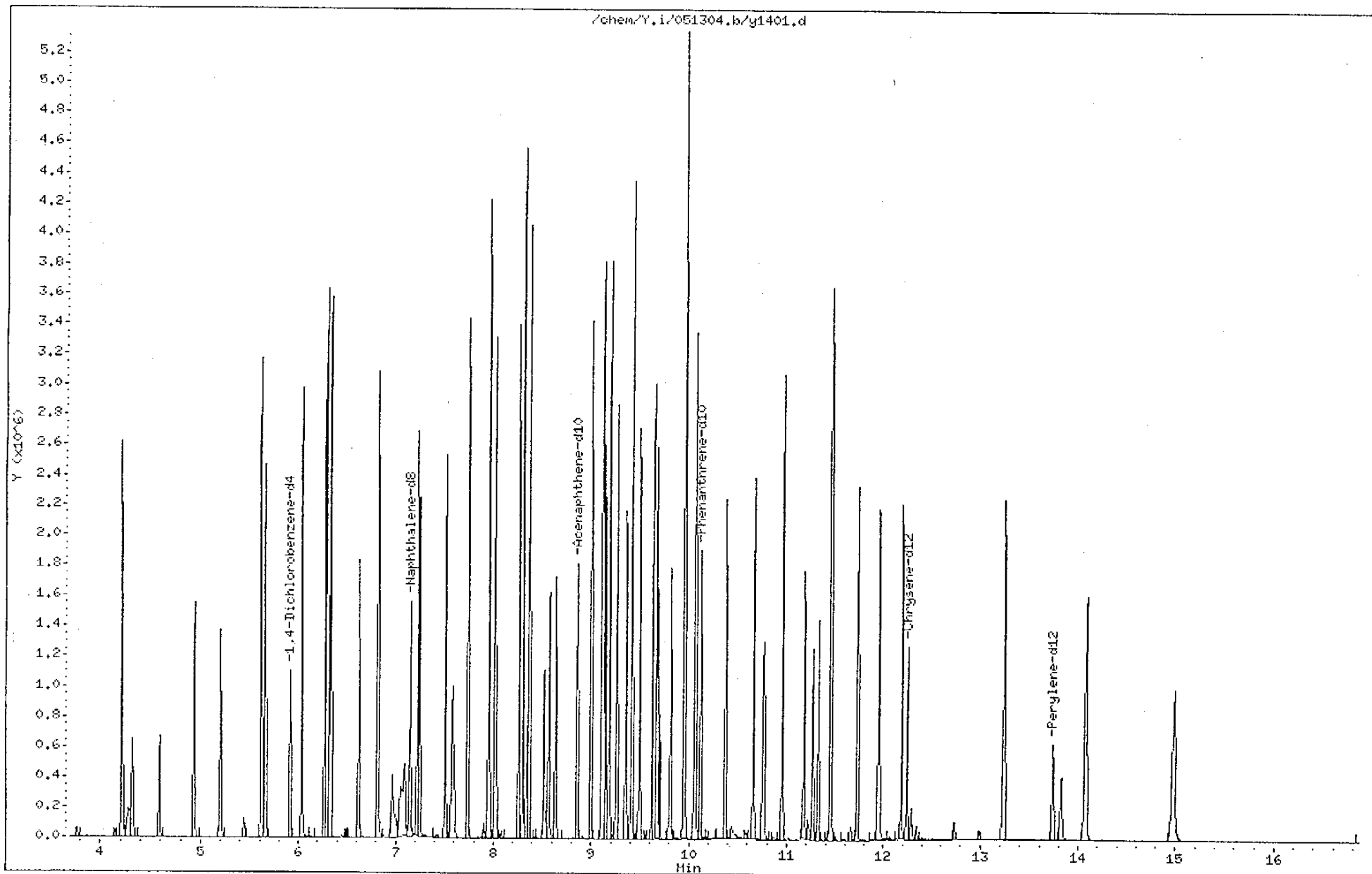
Column phase: Rtx-5ms 30m 0.5um

Instrument: Y.i

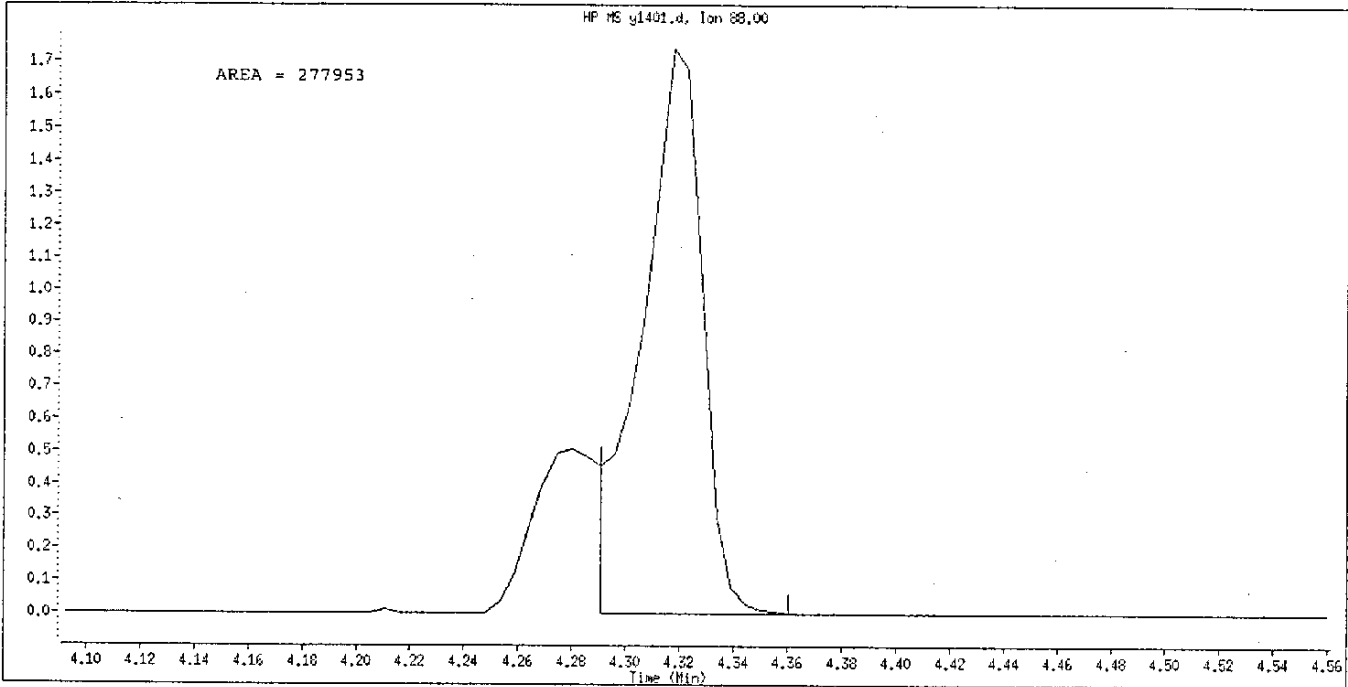
Operator: todear

Column diameter: 0.25

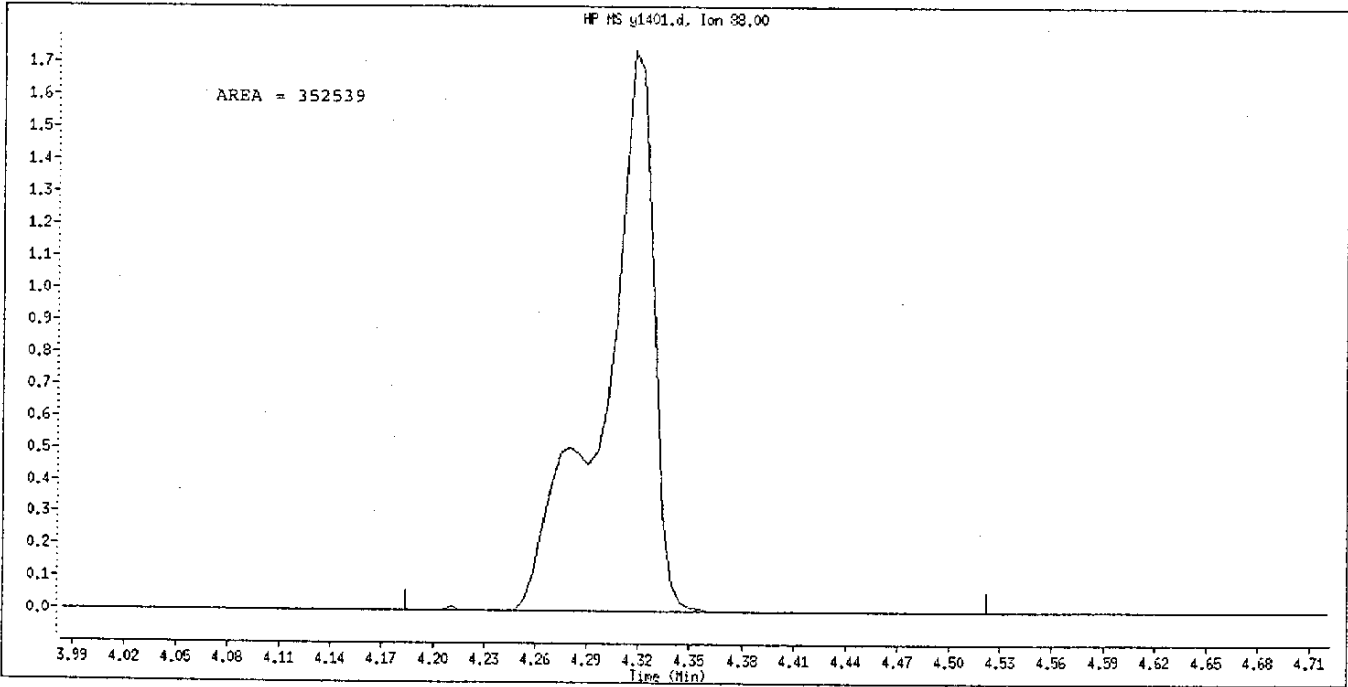
Page 5



Data File Name: y1401.d  
Inj. Date and Time: 13-MAY 2004 17:01  
Instrument ID: Y.i  
Client ID: AP9\_0160  
Compound Name: N-Nitrosomethylethylamine  
CAS #: 10595-95-6  
Report Date: 05/14/2004



Original Integration



Manual Integration

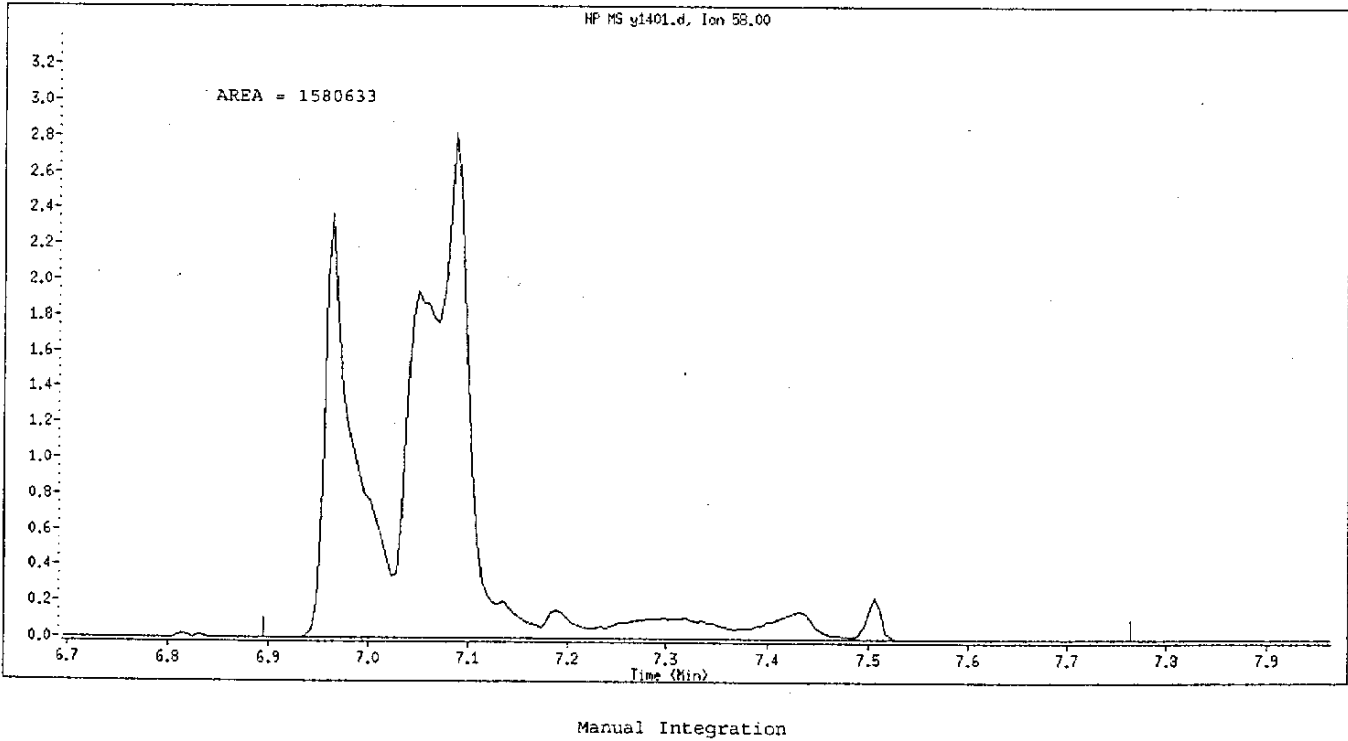
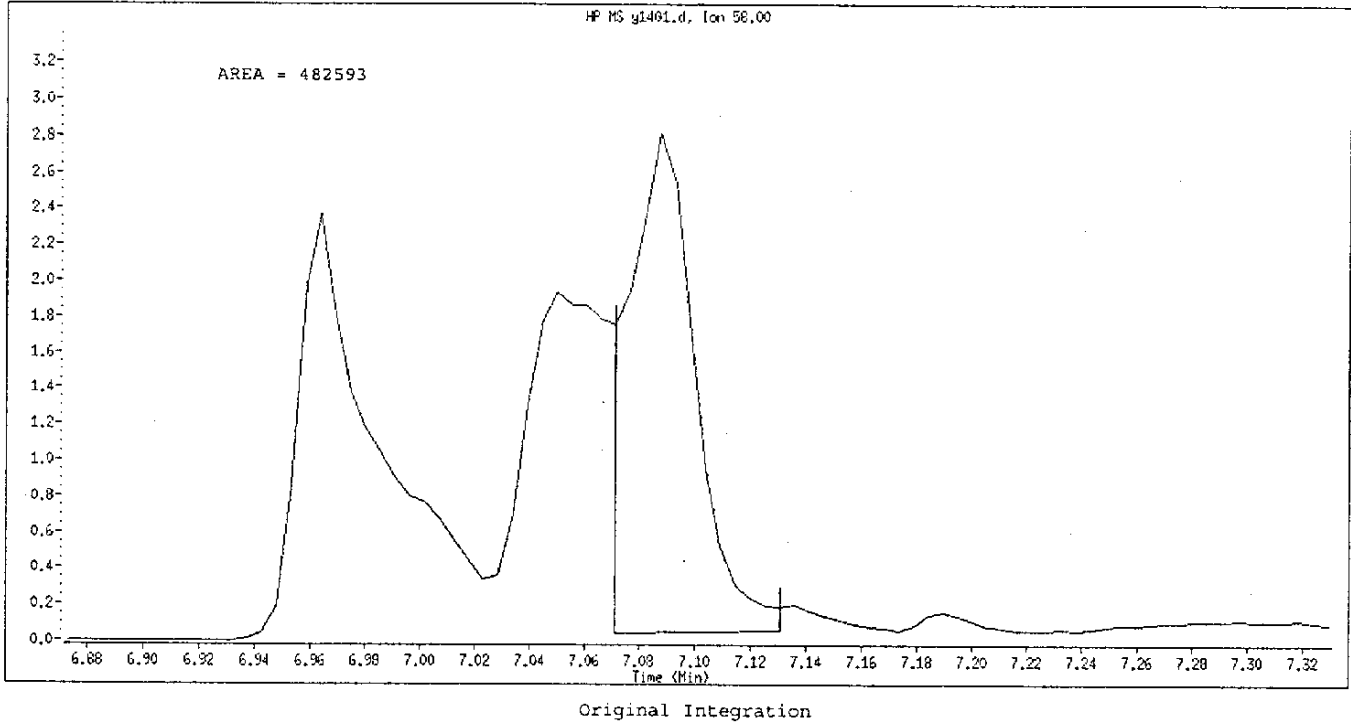
Manually Integrated By: todear  
Manual Integration Reason: Split Peak

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Data File Name: y1401.d  
Inj. Date and Time: 13-MAY-2004 17:01  
Instrument ID: Y.i  
Client ID: AP9\_0160  
Compound Name: a,a-Dimethylphenethylamine  
CAS #: 122-09-8  
Report Date: 05/14/2004



Manually Integrated By: todear  
Manual Integration Reason: Split Peak

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05-14-04

STL-Denver

5/14/04  
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BNA ANALYSIS QUANTITATION REPORT

Data file : /chem/Y.i/051304.b/y1402.d  
Lab Smp Id: AP9\_0200 Client Smp ID: AP9\_0200  
Inj Date : 13-MAY-2004 17:28  
Operator : todear Inst ID: Y.i  
Smp Info : AP9\_0200,BNA1406,P:050404,E:073104  
Misc Info : 4118458  
Comment : SOP#CORP-MS-0001DEN, revision1.1  
Method : /chem/Y.i/051304.b/8270C.m  
Meth Date : 14-May-2004 10:35 todear Quant Type: ISTD  
Cal Date : 13-MAY-2004 17:28 Cal File: y1402.d  
Als bottle: 15 Calibration Sample, Level: 8  
Dil Factor: 1.00000  
Integrator: HP RTE Compound Sublist: 2-AP9std.sub  
Target Version: 3.50  
Processing Host: chemsv03

Concentration Formula: Amt \* DF \* Vf/Vs \* CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vf	1000.00000	final volume at end of extraction (uL)
Vs	1000.00000	volume of sample extracted (mL)

Cpnd Variable Local Compound Variable

Compounds	QUANT	SIG						AMOUNTS	
			MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT	ON-COL
								(ug/ml)	(ug/ml)
* 22 1,4-Dichlorobenzene-d4	152		5.914	5.914	(1.000)	162862	40.0000		
* 49 Naphthalene-d8	136		7.143	7.143	(1.000)	633184	40.0000		
* 83 Acenaphthene-d10	164		8.856	8.856	(1.000)	385824	40.0000		
* 117 Phenanthrene-d10	198		10.123	10.123	(1.000)	663711	40.0000		
* 142 Chrysene-d12	240		12.237	12.237	(1.000)	476846	40.0000		
* 151 Perylene-d12	264		13.735	13.735	(1.000)	380456	40.0000		
7 2-Picoline	93		4.213	4.213	(0.712)	893045	200.000	189.743	
8 N-Nitrosomethylethylamine	88		4.320	4.320	(0.730)	462488	200.000	208.629 (AM)	
9 Methyl methanesulfonate	80		4.594	4.594	(0.777)	259929	200.000	194.099	
11 N-Nitrosodiethylamine	102		4.943	4.943	(0.836)	436106	200.000	198.607	
13 Ethyl methanesulfonate	79		5.206	5.206	(0.880)	652097	200.000	195.433	
19 Pentachloroethane	117		5.662	5.662	(0.957)	293237	200.000	183.808	
31 N-Nitrosopyrrolidine	100		6.301	6.301	(1.065)	432395	200.000	190.853	
34 N-Nitrosomorpholine	116		6.328	6.328	(1.070)	165028	200.000	170.304	
35 o-Toluidine	106		6.333	6.333	(1.071)	1197146	200.000	172.386	

Compounds	QUANT SIG					AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)
-----	----	--	-----	-----	-----	-----	-----
39 N-Nitrosopiperidine	114	6.623	6.623	(0.927)	465288	200.000	198.833
44 O,O,O-Triethyl phosphorothio	198	6.816	6.816	(0.954)	474981	200.000	184.476
48 a,a-Dimethylphenethylamine	58	7.117	7.117	(0.996)	2213379	200.000	202.508 (AM)
53 2,6-Dichlorophenol	162	7.224	7.224	(1.011)	721550	200.000	183.000
54 Hexachloropropene	213	7.240	7.240	(1.014)	503625	200.000	181.637
57 N-Nitrosodi-n-butylamine	84	7.508	7.508	(1.051)	565116	200.000	191.232
58 p-Phenylenediamine	108	7.584	7.584	(1.062)	791607	200.000	182.264
61 Safrole	162	7.739	7.739	(1.083)	681370	200.000	178.493
65 1,2,4,5-Tetrachlorobenzene	216	8.018	8.018	(1.122)	760319	200.000	170.510
66 Isosafrole (#1)	162	8.029	8.029	(0.907)	103248	35.0000	35.5852
72 Isosafrole (#2)	104	8.260	8.260	(0.933)	327606	165.000	148.352
73 1-Chloronaphthalene	162	8.367	8.367	(0.945)	1457992	200.000	163.854
75 1,4-Naphthoquinone	158	8.512	8.512	(0.961)	332183	200.000	162.536
78 1,4-Dinitrobenzene	168	8.571	8.571	(0.968)	314880	200.000	216.110 (A)
80 1,3-Dinitrobenzene	168	8.641	8.641	(0.976)	354439	200.000	204.506 (A)
89 Pentachlorobenzene	250	9.001	9.001	(1.016)	655036	200.000	166.914
90 1-Naphthylamine	143	9.124	9.124	(1.030)	1464364	200.000	203.891 (A)
91 2,3,4,6-Tetrachlorophenol	232	9.146	9.146	(1.033)	493131	200.000	186.587
92 2-Naphthylamine	143	9.189	9.189	(1.038)	1618962	200.000	171.548
98 Thionazin	97	9.264	9.264	(1.046)	355427	200.000	180.051
100 5-Nitro-o-toluidine	152	9.360	9.360	(1.057)	560654	200.000	197.308
182 Diphenylamine	169	9.419	9.419	(1.064)	1415406	200.000	203.275 (A)
104 Sulfotepp	97	9.495	9.495	(0.938)	224766	200.000	174.306
105 1,3,5-Trinitrobenzene	213	9.650	9.650	(0.953)	171114	200.000	217.286 (A)
106 Diallate (#1)	86	9.623	9.623	(0.951)	579966	144.000	132.024
107 Phorate	121	9.639	9.639	(0.952)	290396	200.000	169.453
109 Phenacetin	108	9.682	9.682	(0.957)	732460	200.000	193.343
111 Diallate (#2)	86	9.704	9.704	(0.959)	151417	56.0000	57.5836
112 Dimethoate	87	9.817	9.817	(0.970)	469633	200.000	172.410
114 4-Aminobiphenyl	169	9.951	9.951	(0.983)	1262306	200.000	199.687
115 Pentachloronitrobenzene	237	9.962	9.962	(0.984)	161014	200.000	196.020
116 Pronamide	173	9.956	9.956	(0.984)	457037	200.000	200.543 (A)
120 2-secbutyl-4,6-dinitropheno	211	10.069	10.069	(0.995)	394645	200.000	195.994
121 Disulfoton	88	10.058	10.058	(0.994)	674138	200.000	171.965
124 Methyl parathion	109	10.375	10.375	(1.025)	421454	200.000	174.365
126 Parathion	109	10.659	10.659	(1.053)	289779	200.000	194.486
127 4-Nitroquinoline-1-oxide	190	10.767	10.767	(1.064)	172495	200.000	206.737 (AQ)
128 Methapyrilene	97	10.756	10.756	(1.063)	353191	200.000	174.014
129 Isodrin	193	10.955	10.955	(1.082)	266926	200.000	169.358
134 Aramite (#1)	185	11.266	11.266	(0.921)	129821	92.0000	97.5267
135 Aramite (#2)	185	11.325	11.325	(0.925)	195559	108.000	113.986
136 p-Dimethylaminoazobenzene	120	11.443	11.443	(0.935)	472908	200.000	170.748
138 3,3'-Dimethylbenzidine	212	11.727	11.727	(0.958)	1124704	200.000	196.878
139 2-Acetylaminofluorene	181	11.948	11.948	(0.976)	804606	200.000	231.718 (A)
149 7,12-Dimethylbenz(a)anthrac	256	13.236	13.236	(0.964)	889533	200.000	187.572 (A)
152 3-Methylcholanthrene	268	14.079	14.079	(1.025)	970406	200.000	198.176
153 Dibenz(a,j)acridine	279	14.980	14.980	(1.091)	1374449	200.000	213.246 (A)

Compounds	QUANT SIG					AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)
=====	----	--	-----	-----	-----	-----	-----
M 1 Total Isosafrole	162				430854	200.000	184.948
M 2 Total Diallate	86				731383	200.000	187.455
M 3 Total Aramite	185				325380	200.000	211.739(A)
165 Chlorobenzilate	251	11.454	11.454	(0.936)	538737	200.000	171.558
199 1,4-Dioxane	88	3.177	3.177	(0.537)	360328	200.000	191.838
175 Biphenyl	154	8.308	8.308	(0.938)	1851869	200.000	163.533

#### QC Flag Legend

- A - Target compound detected but, quantitated amount exceeded maximum amount.
- Q - Qualifier signal failed the ratio test.
- M - Compound response manually integrated.

STL-Denver

INTERNAL STANDARD COMPOUNDS  
AREA AND RT SUMMARY

Instrument ID: Y.i  
Lab File ID: y1402.d  
Lab Smp Id: AP9 0200  
Analysis Type: SV  
Quant Type: ISTD  
Operator: todear  
Method File: /chem/Y.i/051304.b/8270C.m  
Misc Info: 4118458

Calibration Date: 13-MAY-2004  
Calibration Time: 14:48  
Client Smp ID: AP9\_0200  
Level: LOW  
Sample Type: WATER

Test Mode:  
Use Last Continuing Calibrator.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
=====	=====	=====	=====	=====	=====
22 1,4-Dichlorobenze	162998	81499	325996	162862	-0.08
49 Naphthalene-d8	638638	319319	1277276	633184	-0.85
83 Acenaphthene-d10	386064	193032	772128	385824	-0.06
117 Phenanthrene-d10	680326	340163	1360652	663711	-2.44
142 Chrysene-d12	508928	254464	1017856	476846	-6.30
151 Perylene-d12	379385	189692	758770	380456	0.28

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
=====	=====	=====	=====	=====	=====
22 1,4-Dichlorobenze	5.92	5.42	6.42	5.91	-0.08
49 Naphthalene-d8	7.15	6.65	7.65	7.14	-0.06
83 Acenaphthene-d10	8.86	8.36	9.36	8.86	-0.05
117 Phenanthrene-d10	10.12	9.62	10.62	10.12	0.01
142 Chrysene-d12	12.27	11.77	12.77	12.24	-0.26
151 Perylene-d12	13.77	13.27	14.27	13.74	-0.27

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/Y.i/051304.b/y1402.d

Page 14

Date : 13-MAY-2004 17:28

Client ID: AP9\_0200

Instrument: Y.i

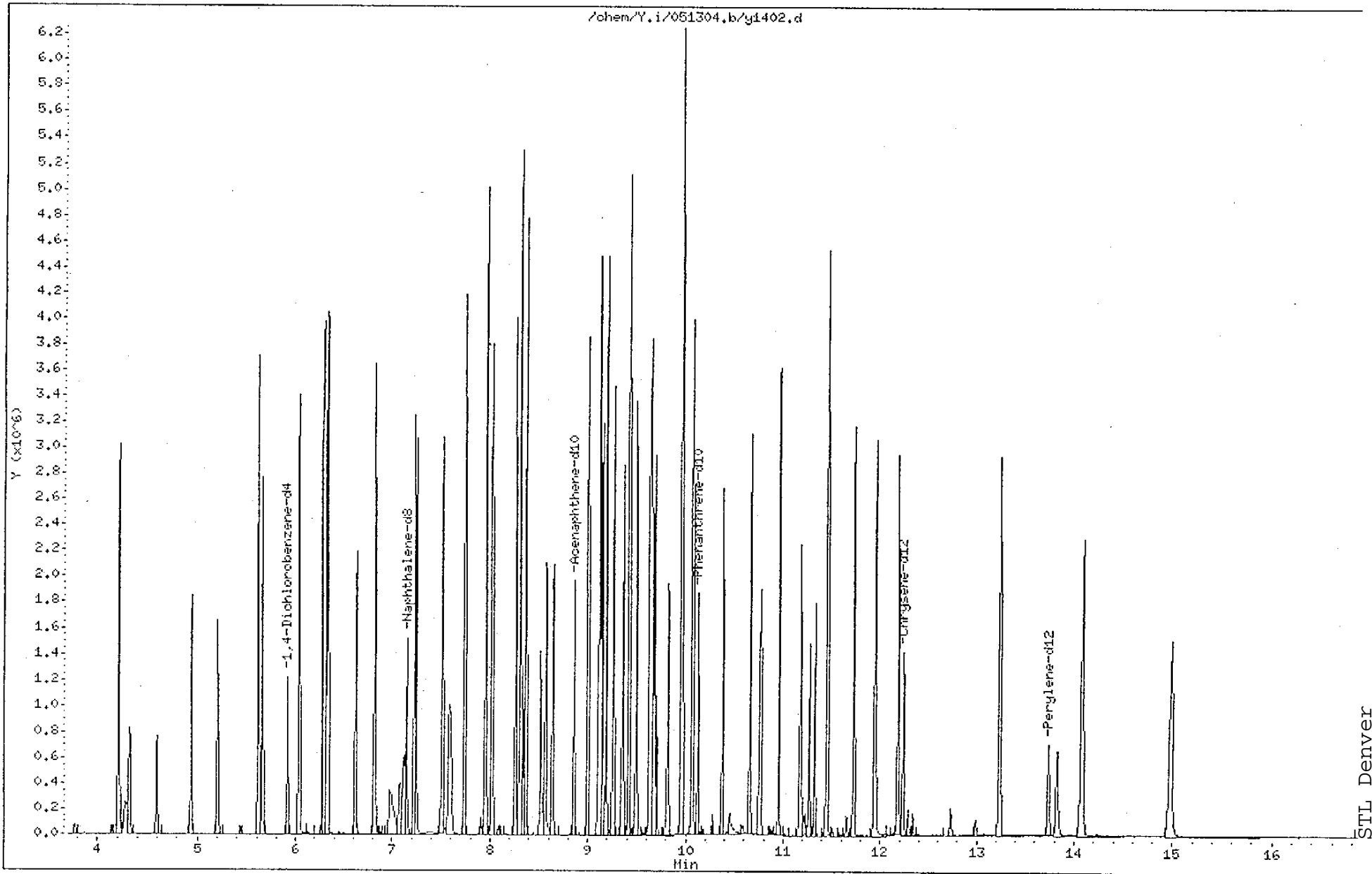
Sample Info: AP9\_0200,BNA1406,P:050404,E:073104

Volume Injected (uL): 0.5

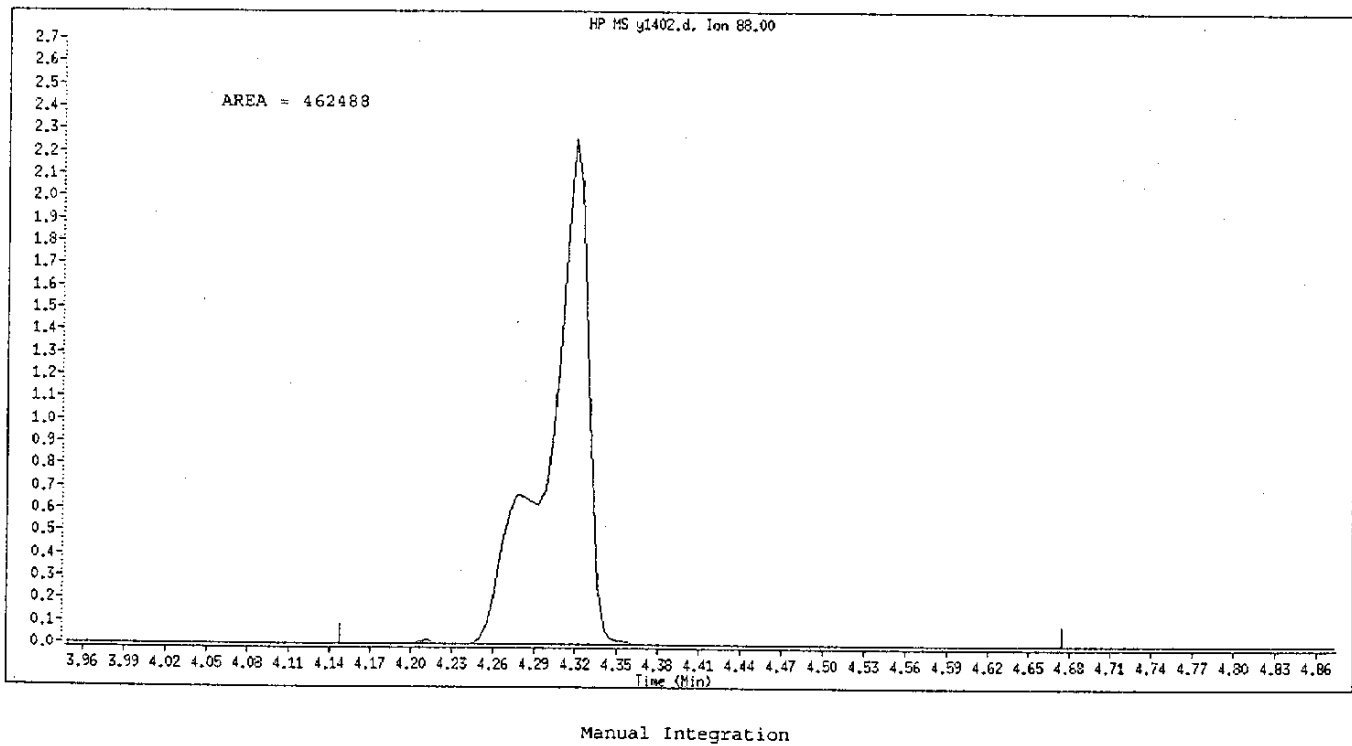
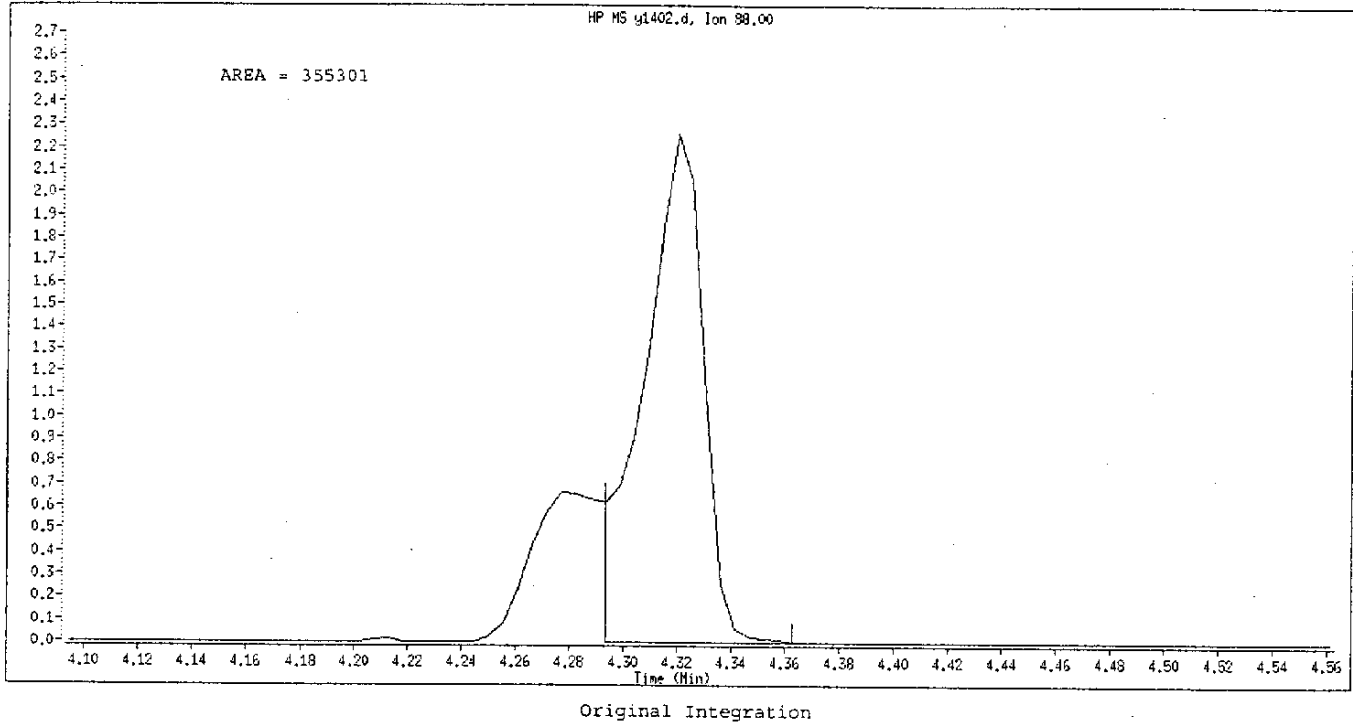
Operator: todear

Column phase: Rtx-5ms 30m 0.5um

Column diameter: 0.25



Data File Name: y1402.d  
Inj. Date and Time: 13-MAY-2004 17:28  
Instrument ID: Y.i  
Client ID: AP9\_0200  
Compound Name: N-Nitrosomethylethylamine  
CAS #: 10595-95-6  
Report Date: 05/14/2004

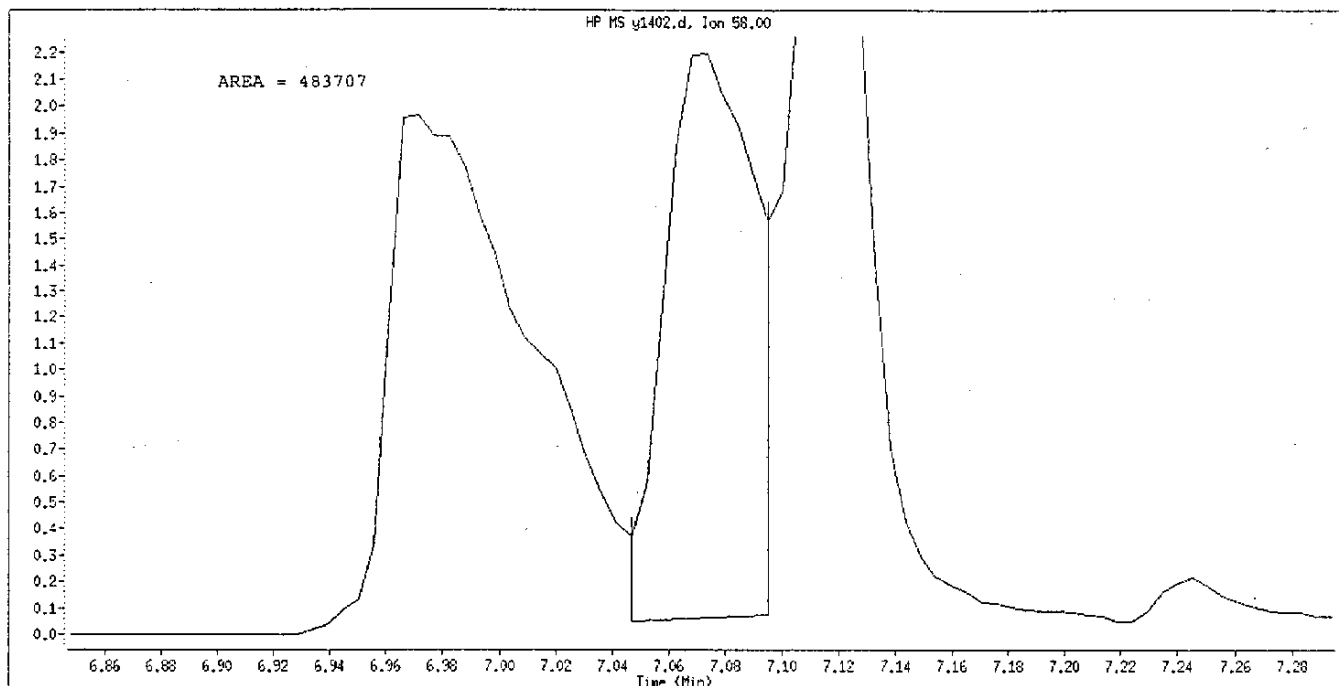


Manually Integrated By: todear  
Manual Integration Reason: Split Peak

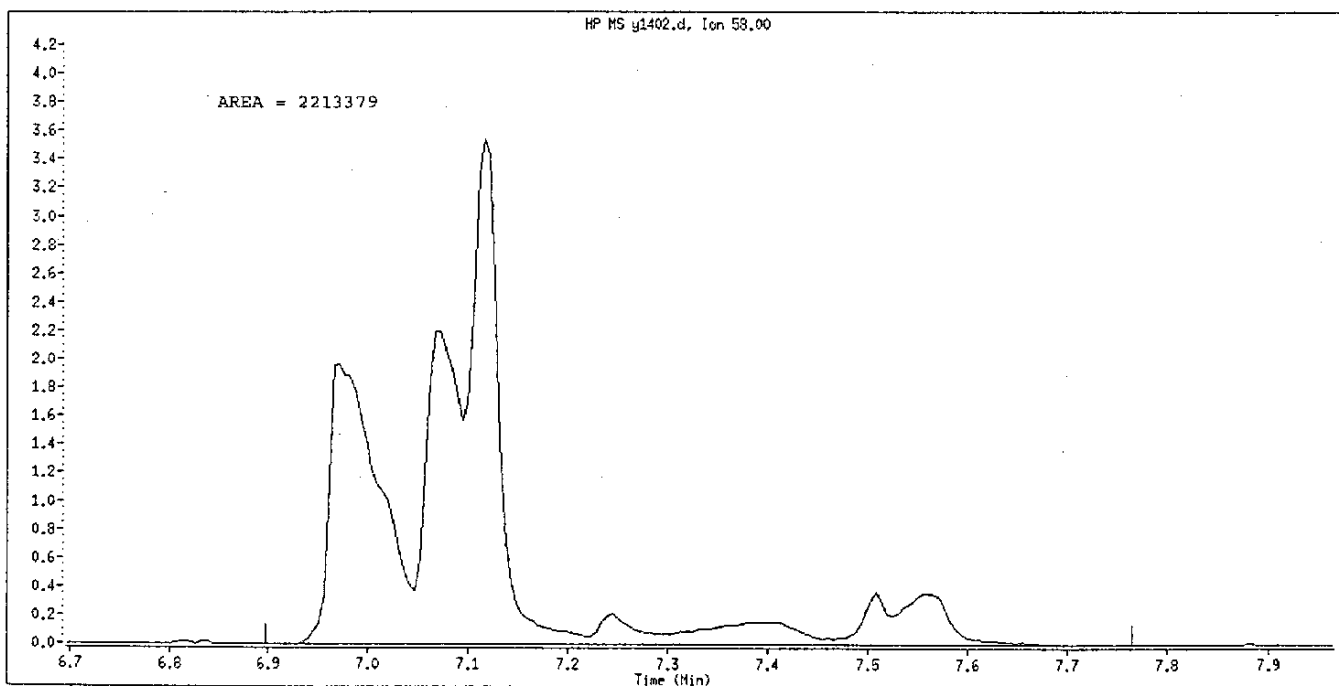
5/14/04  
15

MLK  
05-14-04

Data File Name: y1402.d  
Inj. Date and Time: 13-MAY-2004 17:28  
Instrument ID: Y.i  
Client ID: AP9\_0200  
Compound Name: a,a-Dimethylphenethylamine  
CAS #: 122-09-8  
Report Date: 05/14/2004



Original Integration



Manual Integration

Manually Integrated By: todear  
Manual Integration Reason: Split Peak

5/14/04  
LS

MLK  
05-14-04



5/14/04  
15

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BNA ANALYSIS QUANTITATION REPORT

Data file : /chem/Y.i/051304.b/y1403.d  
Lab Smp Id: AP9\_0100 SSV Client Smp ID: AP9\_0100 SSV  
Inj Date : 13-MAY-2004 17:54  
Operator : todear Inst ID: Y.i  
Smp Info : AP9\_0100 SSV,BNA1417,P:050404,E:071304  
Misc Info : 4118458  
Comment : SOP#CORP-MS-0001DEN, revision1.1  
Method : /chem/Y.i/051304.b/8270C.m  
Meth Date : 14-May-2004 10:35 todear Quant Type: ISTD  
Cal Date : 13-MAY-2004 14:48 Cal File: y1396.d  
Als bottle: 16 QC Sample: SSV  
Dil Factor: 1.00000  
Integrator: HP RTE Compound Sublist: 2-AP9std.sub  
Target Version: 3.50  
Processing Host: chemsv03

Concentration Formula: Amt \* DF \* Vf/Vs \* CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vf	1000.00000	final volume at end of extraction (uL)
Vs	1000.00000	volume of sample extracted (mL)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG				CONCENTRATIONS	
	MASS	RT	EXP RT	REL RT	ON-COLUMN (ug/ml)	FINAL ( ug/L)
* 22 1,4-Dichlorobenzene-d4	152	5.917	5.919	(1.000)	158562	40.0000
* 49 Naphthalene-d8	136	7.147	7.148	(1.000)	624729	40.0000
* 83 Acenaphthene-d10	164	8.853	8.860	(1.000)	365878	40.0000
* 117 Phenanthrene-d10	188	10.120	10.122	(1.000)	592671	40.0000
* 142 Chrysene-d12	240	12.230	12.269	(1.000)	414091	40.0000
* 151 Perylene-d12	264	13.722	13.772	(1.000)	326538	40.0000
7 2-Picoline	93	4.216	4.212	(0.712)	417719	91.1585
8 N-Nitrosomethylethylamine	88	4.323	4.319	(0.731)	220748	102.280
9 Methyl methanesulfonate	80	4.591	4.588	(0.776)	207359	159.042
11 N-Nitrosodiethylamine	102	4.940	4.937	(0.835)	222144	103.910
13 Ethyl methanesulfonate	79	5.198	5.200	(0.878)	319759	98.4302
19 Pentachloroethane	117	5.660	5.661	(0.956)	146716	94.4588
31 N-Nitrosopyrrolidine	100	6.298	6.289	(1.064)	223773	101.449
34 N-Nitrosomorpholine	116	6.320	6.316	(1.068)	93690	99.3073
35 o-Toluidine	106	6.325	6.327	(1.069)	647092	95.7067

Compounds	QUANT SIG					CONCENTRATIONS	
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/ml)	FINAL ( ug/L)
39 N-Nitrosopiperidine	114	6.615	6.617 (0.926)		224258	97.1297	97.1297
44 O,O,O-Triethyl phosphorothio	198	6.814	6.815 (0.953)		249180	98.0877	98.0877
48 a,a-Dimethylphenethylamine	58	7.136	7.030 (0.998)		804855	74.6351	74.6351(M)
53 2,6-Dichlorophenol	162	7.222	7.223 (1.010)		342373	88.0080	88.0080
54 Hexachloropropene	213	7.243	7.245 (1.014)		303271	110.858	110.858
57 N-Nitrosodi-n-butylamine	84	7.506	7.508 (1.050)		277498	95.1744	95.1744
58 p-Phenylenediamine	108	7.587	7.577 (1.062)		176793	41.2566	41.2566(R)
61 Safrole	162	7.737	7.744 (1.083)		359433	95.4322	95.4322
65 1,2,4,5-Tetrachlorobenzene	216	8.016	8.018 (1.122)		412600	93.7824	93.7824
66 Isosafrole (#1)	162	8.032	8.034 (0.907)		67929	24.6886	24.6886
72 Isosafrole (#2)	104	8.258	8.259 (0.933)		169801	81.0842	81.0842
73 1-Chloronaphthalene	162	8.365	8.367 (0.945)		782334	92.7143	92.7143
75 1,4-Naphthoquinone	158	8.515	8.517 (0.962)		280708	144.837	144.837
78 1,4-Dinitrobenzene	168	8.569	8.570 (0.968)		127253	92.0983	92.0983
80 1,3-Dinitrobenzene	168	8.639	8.640 (0.976)		159359	96.9604	96.9604
89 Pentachlorobenzene	250	8.998	9.000 (1.016)		341770	91.8364	91.8364
90 1-Naphthylamine	143	9.116	9.118 (1.030)		740328	91.4715	91.4714
91 2,3,4,6-Tetrachlorophenol	232	9.138	9.145 (1.032)		227256	90.6750	90.6750
92 2-Naphthylamine	143	9.186	9.188 (1.038)		690902	77.2002	77.2002
98 Thionazin	97	9.261	9.263 (1.046)		167162	89.2968	89.2968
100 5-Nitro-o-toluidine	152	9.353	9.354 (1.056)		250651	93.0193	93.0193
182 Diphenylamine	169	9.417	9.419 (1.064)		723690	92.6806	92.6806
104 Sulfotepp	97	9.492	9.494 (0.938)		113817	98.8447	98.8447
105 1,3,5-Trinitrobenzene	213	9.659	9.655 (0.954)		74053	105.306	105.306(Q)
106 Diallate (#1)	86	9.621	9.628 (0.951)		280795	71.5823	71.5823
107 Phorate	121	9.637	9.644 (0.952)		153077	100.031	100.031
109 Phenacetin	108	9.669	9.671 (0.955)		335889	99.2900	99.2900
111 Diallate (#2)	86	9.702	9.708 (0.959)		58136	24.7591	24.7591
112 Dimethoate	87	9.809	9.810 (0.969)		248825	102.297	102.297
114 4-Aminobiphenyl	169	9.948	9.950 (0.983)		695059	94.8348	94.8348
115 Pentachloronitrobenzene	237	9.959	9.966 (0.984)		87740	92.7838	92.7838
116 Pronamide	173	9.948	9.955 (0.983)		249274	93.0428	93.0428
120 2-secbutyl-4,6-dinitropheno	211	10.067	10.073 (0.995)		198697	113.109	113.109
121 Disulfoton	88	10.056	10.063 (0.994)		308835	88.2232	88.2232
124 Methyl parathion	109	10.373	10.379 (1.025)		220020	101.938	101.938
126 Parathion	109	10.652	10.664 (1.052)		129417	97.2699	97.2699
127 4-Nitroquinoline-1-oxide	190	10.759	10.771 (1.063)		79441	106.623	106.623(Q)
128 Methapyrilene	97	10.754	10.761 (1.063)		207613	114.550	114.550
129 Isodrin	193	10.947	10.959 (1.082)		136634	97.0821	97.0821
134 Aramite (#1)	185	11.258	11.276 (0.921)		56694	49.0454	49.0454(R)
135 Aramite (#2)	185	11.317	11.335 (0.925)		74326	49.8882	49.8882
136 p-Dimethylaminoazobenzene	120	11.435	11.458 (0.935)		270700	112.551	112.551
138 3,3'-Dimethylbenzidine	212	11.714	11.743 (0.958)		514179	103.646	103.646
139 2-Acetylaminofluorene	181	11.935	11.963 (0.976)		347668	115.299	115.298
149 7,12-Dimethylbenz(a)anthrac	256	13.217	13.267 (0.963)		361879	88.9079	88.9079
152 3-Methylcholanthrene	268	14.055	14.110 (1.024)		452402	107.645	107.645
153 Dibenz(a,j)acridine	279	14.957	15.012 (1.090)		606569	109.649	109.648

Compounds	QUANT SIG					CONCENTRATIONS	
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/ml)	FINAL ( ug/L)
=====	====	==	=====	=====	=====	=====	=====
M 1 Total Isosafrole	162				237730	107.611	107.611
M 2 Total Diallate	86				338931	97.2812	97.2812
M 3 Total Aramite	185				131020	98.1817	98.1817
165 Chlorobenzilate	251	11.446	11.469	(0.936)	276697	101.466	101.466
199 1,4-Dioxane	88	3.174	3.176	(0.536)	173693	94.9817	94.9817
175 Biphenyl	154	8.306	8.307	(0.938)	1063350	99.0205	99.0205

# QC Flag Legend

Q - Qualifier signal failed the ratio test.  
 R - Spike/Surrogate failed recovery limits.  
 M - Compound response manually integrated.

STL-Denver

INTERNAL STANDARD COMPOUNDS  
AREA AND RT SUMMARY

Instrument ID: Y.i  
Lab File ID: y1403.d  
Lab Smp Id: AP9\_0100 SSV  
Analysis Type: SV  
Quant Type: ISTD  
Operator: todear  
Method File: /chem/Y.i/051304.b/8270C.m  
Misc Info: 4118458

Calibration Date: 13-MAY-2004  
Calibration Time: 14:48  
Client Smp ID: AP9\_0100 SSV  
Level: LOW  
Sample Type: WATER

Test Mode:  
Use Last Continuing Calibrator.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
=====	=====	=====	=====	=====	=====
22 1,4-Dichlorobenze	162998	81499	325996	158562	-2.72
49 Naphthalene-d8	638638	319319	1277276	624729	-2.18
83 Acenaphthene-d10	386064	193032	772128	365878	-5.23
117 Phenanthrene-d10	680326	340163	1360652	592671	-12.88
142 Chrysene-d12	508928	254464	1017856	414091	-18.63
151 Perylene-d12	379385	189692	758770	326538	-13.93

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
=====	=====	=====	=====	=====	=====
22 1,4-Dichlorobenze	5.92	5.42	6.42	5.92	-0.03
49 Naphthalene-d8	7.15	6.65	7.65	7.15	-0.02
83 Acenaphthene-d10	8.86	8.36	9.36	8.85	-0.08
117 Phenanthrene-d10	10.12	9.62	10.62	10.12	-0.02
142 Chrysene-d12	12.27	11.77	12.77	12.23	-0.32
151 Perylene-d12	13.77	13.27	14.27	13.72	-0.36

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.

STL-Denver

RECOVERY REPORT

Client Name:  
Sample Matrix: LIQUID  
Lab Smp Id: AP9\_0100 SSV  
Level: LOW  
Data Type: MS DATA  
SpikeList File: AP9SSV.spk  
Sublist File: 2-AP9std.sub  
Method File: /chem/Y.i/051304.b/8270C.m  
Misc Info: 4118458

Client SDG: 051304  
Fraction: SV  
Client Smp ID: AP9\_0100 SSV  
Operator: todear  
SampleType: SSV  
Quant Type: ISTD

SPIKE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
7 2-Picoline	100.000	91.1585	91.16	45-155
8 N-Nitrosomethyleth	100.000	102.280	102.28	45-155
9 Methyl methanesulf	100.000	159.042	159.04*	45-155 <i>variate</i>
11 N-Nitrosodiethylam	100.000	103.910	103.91	45-155
13 Ethyl methanesulfo	100.000	98.4302	98.43	45-155
19 Pentachloroethane	100.000	94.4588	94.46	45-155
31 N-Nitrosopyrrolidi	100.000	101.448	101.45	45-155
34 N-Nitrosomorpholin	100.000	99.3073	99.31	45-155
35 o-Toluidine	100.000	95.7067	95.71	45-155
39 N-Nitrosopiperidin	100.000	97.1297	97.13	45-155
44 O,O,O-Triethyl pho	100.000	98.0877	98.09	45-155
48 a,a-Dimethylphenet	100.000	74.6351	74.64	45-155
53 2,6-Dichlorophenol	100.000	88.0080	88.01	45-155
54 Hexachloropropene	100.000	110.858	110.86	45-155
57 N-Nitrosodi-n-buty	100.000	95.1744	95.17	45-155
58 p-Phenylenediamine	100.000	41.2566	41.26*	45-155 <i>variate</i>
61 Safrole	100.000	95.4322	95.43	45-155
65 1,2,4,5-Tetrachlor	100.000	93.7824	93.78	45-155
66 Isosafrole (#1)	17.5000	24.6886	141.08	45-155
72 Isosafrole (#2)	82.5000	81.0842	98.28	45-155
73 1-Chloronaphthalen	100.000	92.7143	92.71	45-155
75 1,4-Naphthoquinone	100.000	144.837	144.84	45-155
78 1,4-Dinitrobenzene	100.000	92.0983	92.10	45-155
80 1,3-Dinitrobenzene	100.000	96.9604	96.96	45-155
89 Pentachlorobenzene	100.000	91.8364	91.84	45-155
90 1-Naphthylamine	100.000	91.4714	91.47	45-155
91 2,3,4,6-Tetrachlor	100.000	90.6750	90.67	45-155
92 2-Naphthylamine	100.000	77.2002	77.20	45-155
98 Thionazin	100.000	89.2968	89.30	45-155
100 5-Nitro-o-toluidin	100.000	93.0193	93.02	45-155
182 Diphenylamine	100.000	92.6806	92.68	45-155
104 Sulfotepp	100.000	98.8447	98.84	45-155
105 1,3,5-Trinitrobenz	100.000	105.306	105.31	45-155

SPIKE COMPOUND		CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
	106 Diallate (#1)	72.0000	71.5823	99.42	45-155
	107 Phorate	100.000	100.031	100.03	45-155
	109 Phenacetin	100.000	99.2900	99.29	45-155
	111 Diallate (#2)	28.0000	24.7591	88.43	45-155
	112 Dimethoate	100.000	102.297	102.30	45-155
	114 4-Aminobiphenyl	100.000	94.8348	94.83	45-155
	115 Pentachloronitroben	100.000	92.7838	92.78	45-155
	116 Pronamide	100.000	93.0428	93.04	45-155
	120 2-secbutyl-4,6-din	100.000	113.109	113.11	45-155
	121 Disulfoton	100.000	88.2232	88.22	45-155
	124 Methyl parathion	100.000	101.938	101.94	45-155
	126 Parathion	100.000	97.2699	97.27	45-155
	127 4-Nitroquinoline-1	100.000	106.623	106.62	45-155
	128 Methapyrilene	100.000	114.550	114.55	45-155
	129 Isodrin	100.000	97.0821	97.08	45-155
	134 Aramite (#1)	17.5000	49.0454	280.26*	45-155
	135 Aramite (#2)	82.5000	49.8882	60.47	45-155
	136 p-Dimethylaminoazo	100.000	112.551	112.55	45-155
	138 3,3'-Dimethylbenzi	100.000	103.646	103.65	45-155
	139 2-Acetylaminofluor	100.000	115.298	115.30	45-155
	152 3-Methylcholanthre	100.000	107.645	107.64	45-155
	149 7,12-Dimethylbenz(	100.000	88.9079	88.91	45-155
	153 Dibenz(a,j)acridin	100.000	109.648	109.65	45-155
M	1 Total Isosafrole	100.000	107.611	107.61	45-155
M	2 Total Diallate	100.000	97.2812	97.28	45-155
M	3 Total Aramite	100.000	98.1817	98.18	45-155
	165 Chlorobenzilate	100.000	101.466	101.47	45-155
	199 1,4-Dioxane	100.000	94.9817	94.98	45-155
	175 Biphenyl	100.000	99.0205	99.02	45-155

*Handwritten signature/initials*

STL-Denver

TENTATIVELY IDENTIFIED COMPOUNDS

Client Name:  
Lab Smp Id: AP9\_0100 SSV  
Operator : todear  
Sample Location:  
Sample Matrix: WATER  
Analysis Type: SV

Client SDG: 051304  
Client Smp ID: AP9\_0100 SSV  
Sample Date: 30-MAR-1998  
Sample Point:  
Date Received: 31-MAR-1998 00:00  
Level: LOW

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
=====	=====	=====	=====	=====

Data File: /chem/Y.i/051304.b/y1403.d

Page 8

Date : 13-MAY-2004 17:54

Client ID: AP9\_0100 SSV

Instrument: Y.i

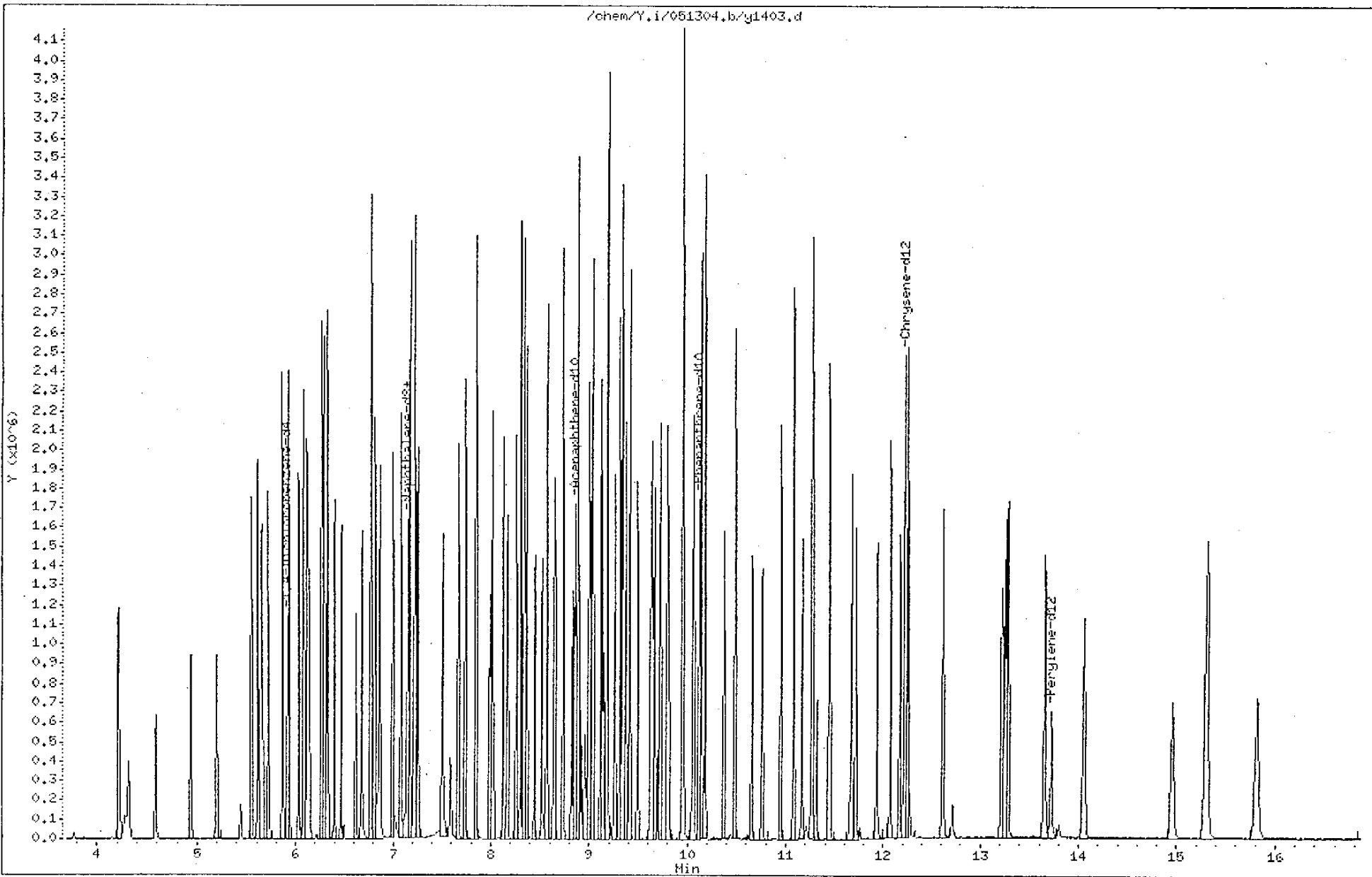
Sample Info: AP9\_0100 SSV,BNA1417,P:050404,E:071304

Volume Injected (uL): 0.5

Operator: todear

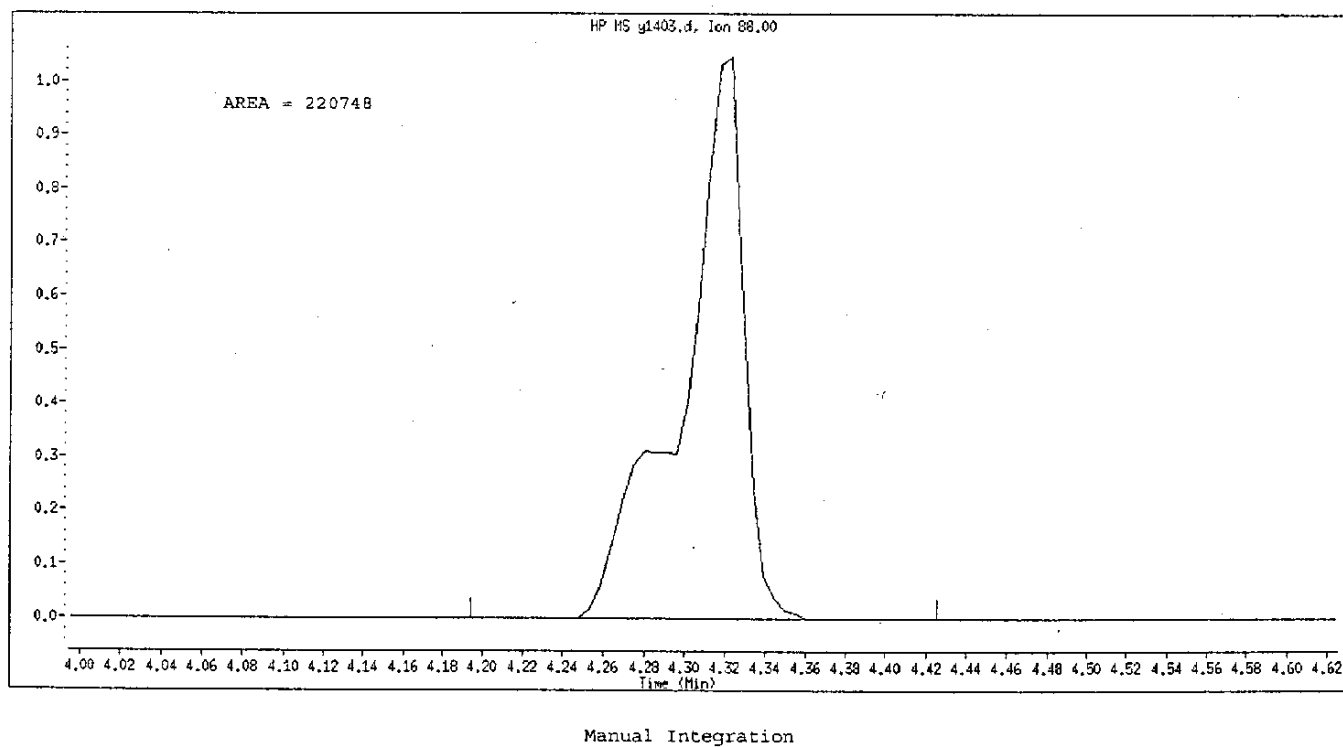
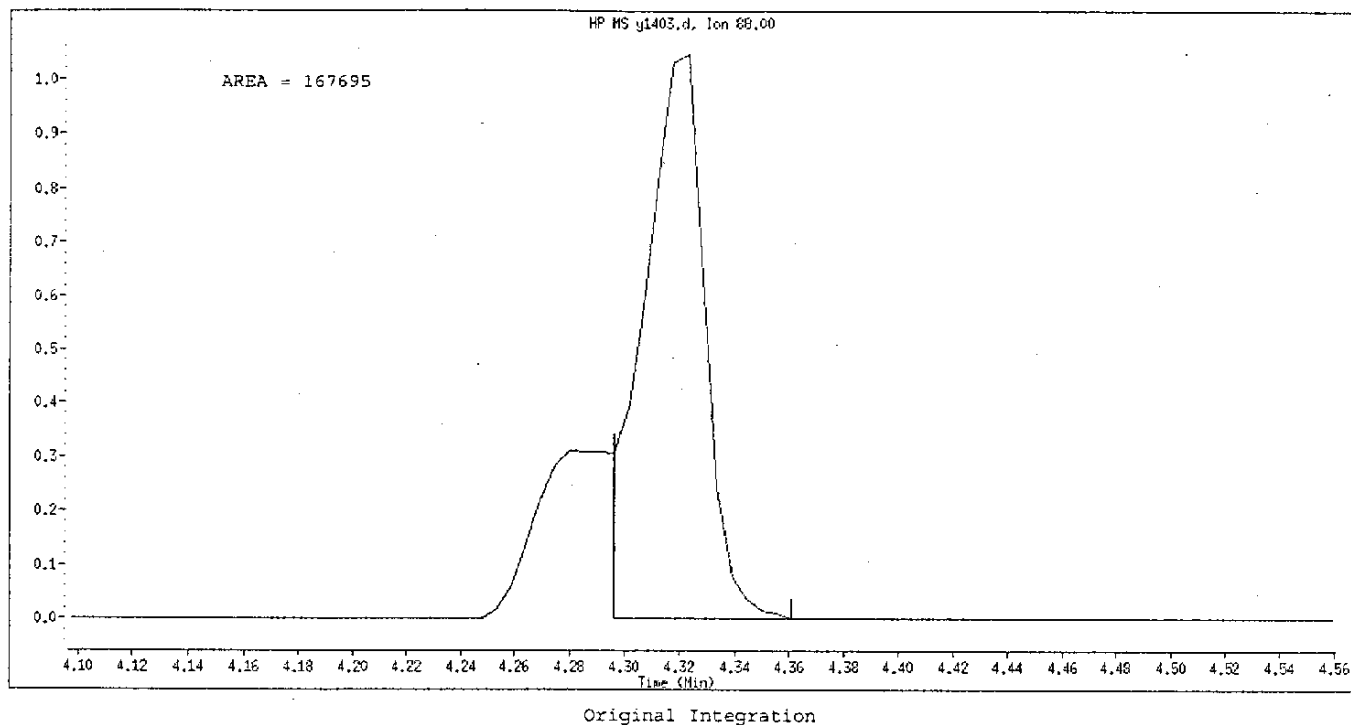
Column phase: Rtx-5ms 30m 0.5um

Column diameter: 0.25





Data File Name: y1403.d  
Inj. Date and Time: 13-MAY-2004 17:54  
Instrument ID: Y.i  
Client ID: AP9\_0100 SSV  
Compound Name: N-Nitrosomethylethylamine  
CAS #: 10595-95-6  
Report Date: 05/14/2004

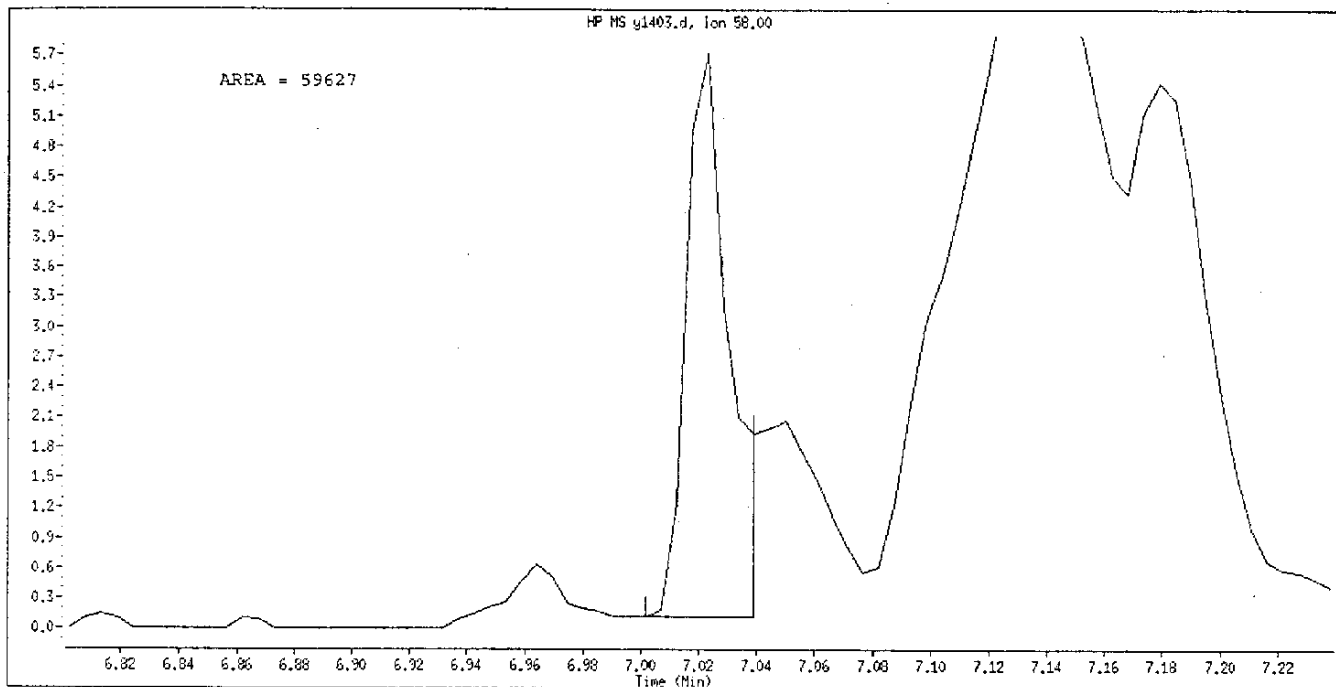


Manually Integrated By: todear  
Manual Integration Reason: Split Peak

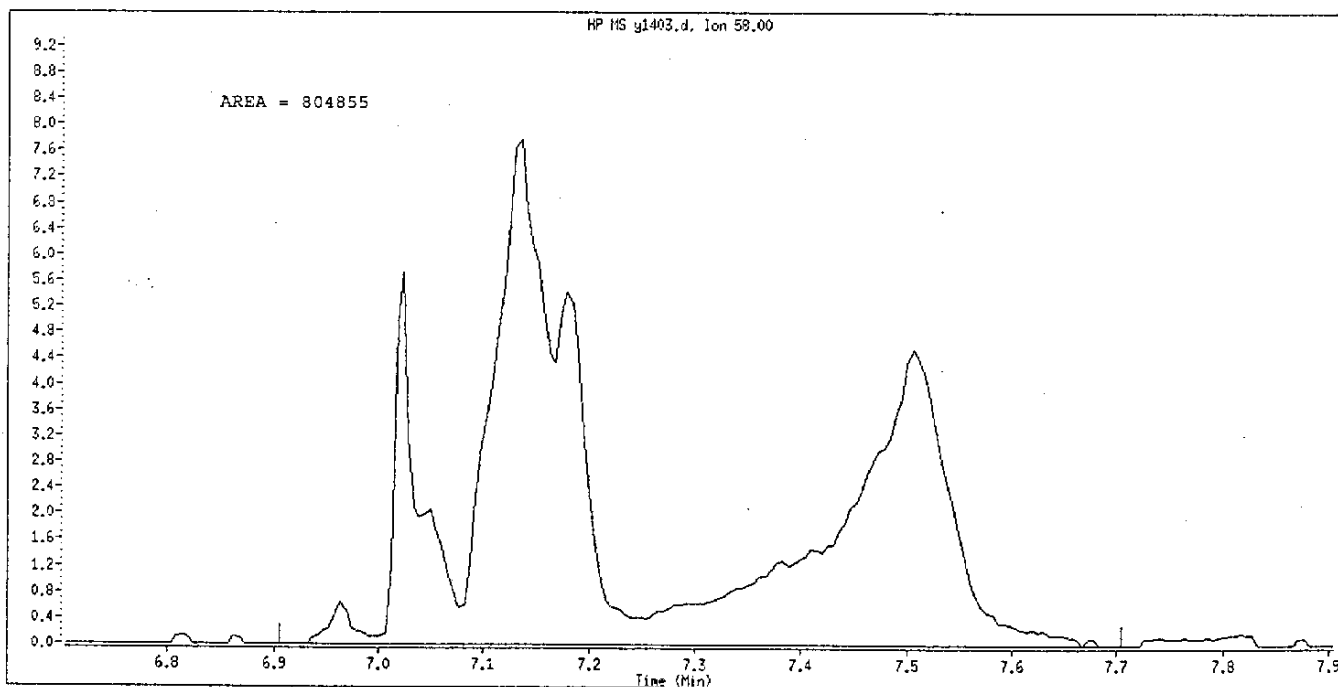
5/14/04  
5

MR  
05-14-04

Data File Name: y1403.d  
Inj. Date and Time: 13-MAY-2004 17:54  
Instrument ID: Y.i  
Client ID: AP9\_0100 SSV  
Compound Name: a,a-Dimethylphenethylamine  
CAS #: 122-09-8  
Report Date: 05/14/2004



Original Integration



Manual Integration

Manually Integrated By: todear  
Manual Integration Reason: Split Peak

5/14/04  
W

MS  
05-14-04

## GC/MS Continuing Calibration Review Checklist

STL Denver

Instrument ID and Date: Y052804, bCheck Method Used: Analysis ☐ 625 ☒ 8270 ☒ Other SV HSC/AP9/REF/Cust☐ 524.2 ☐ 624 ☐ 8260B ☐ Other VOAVOA Preparation ☐ 5mL ☐ 20mL ☐ 5035 Low ☐ 5035 High ☐ 5030 Low ☐ 5030 High

Review Items	Level 1		Level 2		Comments
	Yes	No	N/A		
<b>Continuing Calibration</b>					
1. BFB/DFTPP meets criteria?	✓			✓	
2. ICAL date and instrument ID verified?	✓			✓	
3. Do SPCC RRFs and CCC %Ds meet method criteria?	✓			✓	
4. Does %D meet criteria for non-CCC compounds?	✓			✓	
5. Isomeric pairs checked for correct peak assignment?	✓			✓	
6. Standards traceability properly documented?	✓			✓	
7. Manual integrations documented and checked?	✓			✓	
8. Do the Internal Standards meet criteria for %D against ICAL?	✓			✓	

1st Level Reviewer: MRVDate: 05-28-042nd Level Reviewer: F.T. QeDate: 5/28/04

Date : 28-MAY-2004 06:22

Client ID: DFTPP

Instrument: Y.i

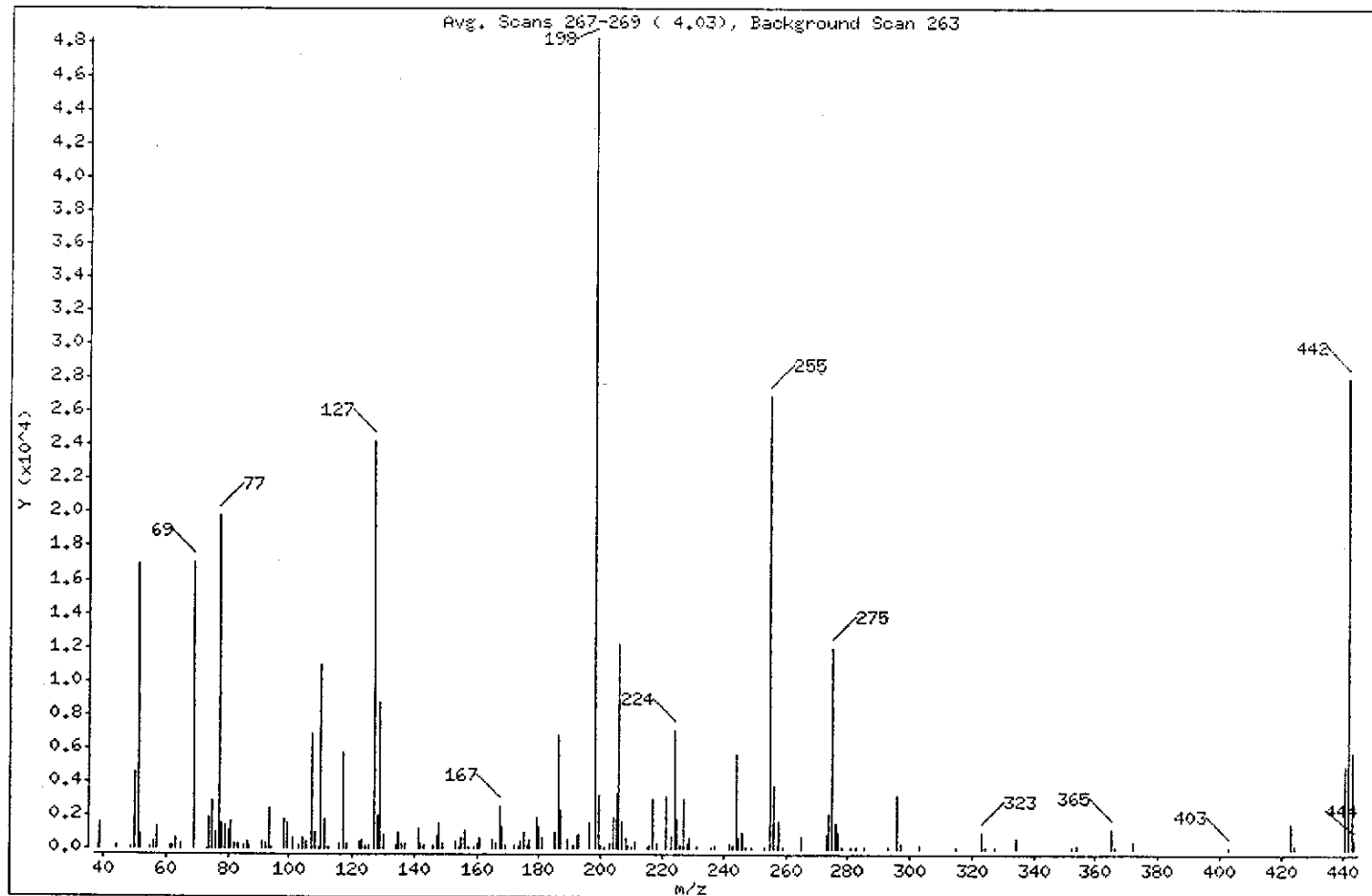
Sample Info: 25NGOC DFTPP,BNA1512,P041904 E041905

Operator: todear

Column phase: Rtx-5ms

Column diameter: 0.25

1 dftpp

NEW  
05-28-04

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 60.00% of mass 198	35.08
68	Less than 2.00% of mass 69	0.00 ( 0.00)
69	Mass 69 relative abundance	35.37
70	Less than 2.00% of mass 69	0.00 ( 0.00)
127	40.00 - 60.00% of mass 198	50.37
197	Less than 1.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	6.71
275	10.00 - 30.00% of mass 198	24.85
365	Greater than 1.00% of mass 198	2.53
441	Present, but less than mass 443	10.37
442	40.00 - 100.00% of mass 198	58.19
443	17.00 - 23.00% of mass 442	11.86 ( 20.39)

Date : 28-MAY-2004 06:22

Client ID: DFTPP

Instrument: Y.i

Sample Info: 25NG0C DFTPP,BNA1512,P041904 E041905

Operator: todear

Column phase: Rtx-5ms

Column diameter: 0.25

Data File: y1745.d

Spectrum: Avg. Scans 267-269 ( 4.03), Background Scan 263

Location of Maximum: 198.00

Number of points: 169

m/z	Y	m/z	Y	m/z	Y	m/z	Y
38.00	259	111.00	1807	179.00	1865	246.00	972
39.00	1580	112.00	136	180.00	1329	247.00	101
44.00	253	116.00	292	181.00	645	249.00	147
49.00	104	117.00	5709	185.00	991	253.00	109
50.00	4489	118.00	350	186.00	6724	255.00	26872
51.00	16896	122.00	395	187.00	2334	256.00	3786
52.00	835	123.00	583	189.00	501	257.00	266
55.00	104	124.00	250	191.00	249	258.00	1657
56.00	481	125.00	271	192.00	760	259.00	131
57.00	1309	127.00	24264	193.00	893	265.00	738
61.00	214	128.00	2022	196.00	1576	273.00	876
62.00	244	129.00	8793	198.00	48176	274.00	2090
63.00	668	130.00	831	199.00	3231	275.00	11972
65.00	338	134.00	233	200.00	269	276.00	1506
69.00	17032	135.00	1029	201.00	129	277.00	1014
73.00	19	136.00	300	203.00	356	278.00	108
74.00	1886	137.00	375	204.00	1847	281.00	76
75.00	2859	141.00	1166	205.00	3323	283.00	105
76.00	1039	142.00	310	206.00	12185	285.00	155
77.00	19872	143.00	267	207.00	1610	293.00	123
78.00	1557	146.00	216	208.00	650	296.00	3254
79.00	1390	147.00	804	209.00	258	297.00	313
80.00	1067	148.00	1519	210.00	103	303.00	264
81.00	1686	149.00	311	211.00	444	315.00	137
82.00	313	153.00	393	215.00	114	323.00	1045
83.00	323	154.00	136	216.00	253	324.00	117
85.00	258	155.00	685	217.00	2941	327.00	111
86.00	451	156.00	1098	218.00	328	334.00	649
87.00	222	157.00	120	221.00	3074	352.00	142
91.00	445	159.00	133	223.00	810	354.00	221
92.00	322	160.00	349	224.00	7113	365.00	1218
93.00	2484	161.00	636	225.00	1751	366.00	118
94.00	102	165.00	516	226.00	226	372.00	482
98.00	1731	166.00	348	227.00	2953	403.00	122
99.00	1572	167.00	2498	228.00	380	423.00	1594

Data File: /chem/Y.i/052804.b/y1745.d

Page 4

Date : 28-MAY-2004 06:22

Client ID: DFTPP

Instrument: Y.i

Sample Info: 25N00C DFTPP,BNA1512,P041904 E041905

Operator: todear

Column phase: Rtx-5ms

Column diameter: 0,25

Data File: y1745.d

Spectrum: Avg. Scans 267-269 ( 4.03), Background Scan 263

Location of Maximum: 198.00

Number of points: 169

m/z	Y	m/z	Y	m/z	Y	m/z	Y
101.00	702	168.00	1317	229.00	697	424.00	263
103.00	228	169.00	221	231.00	266	441.00	4997
104.00	633	172.00	211	236.00	103	442.00	28032
105.00	457	173.00	101	237.00	243	443.00	5716
107.00	6863	174.00	465	242.00	321	444.00	562
108.00	996	175.00	947	243.00	197		
109.00	108	176.00	262	244.00	5634		
110.00	10977	177.00	556	245.00	711		

Data File: /chem/Y.i/052804.b/y1745.d

Page 1

Date : 28-MAY-2004 06:22

Client ID: DFTPP

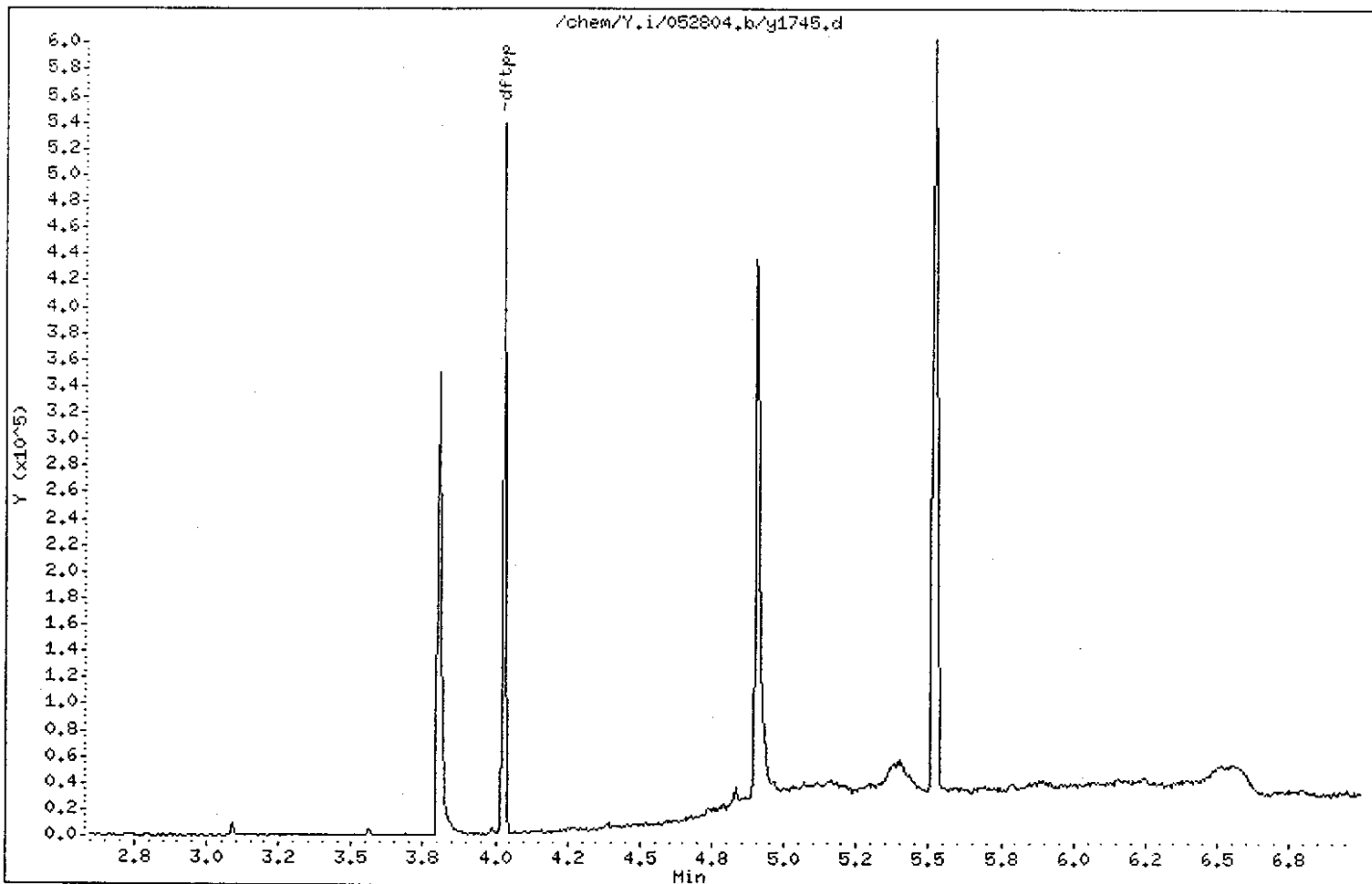
Instrument: Y.i

Sample Info: 25NGOC DFTPP,BNA1512,P041904 E041905

Operator: todean

Column phase: Rtx-5ms

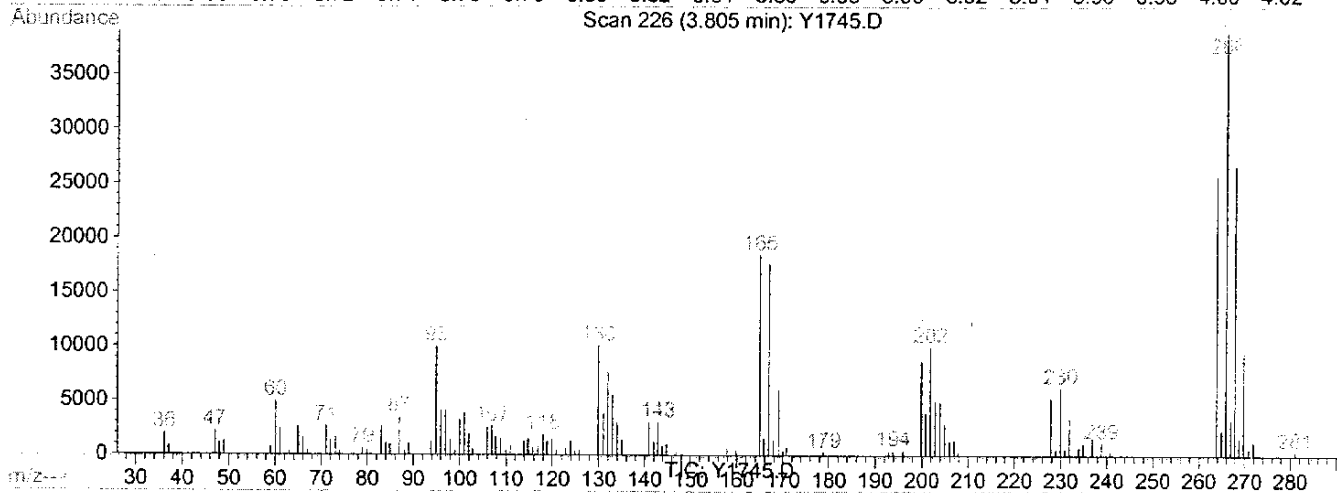
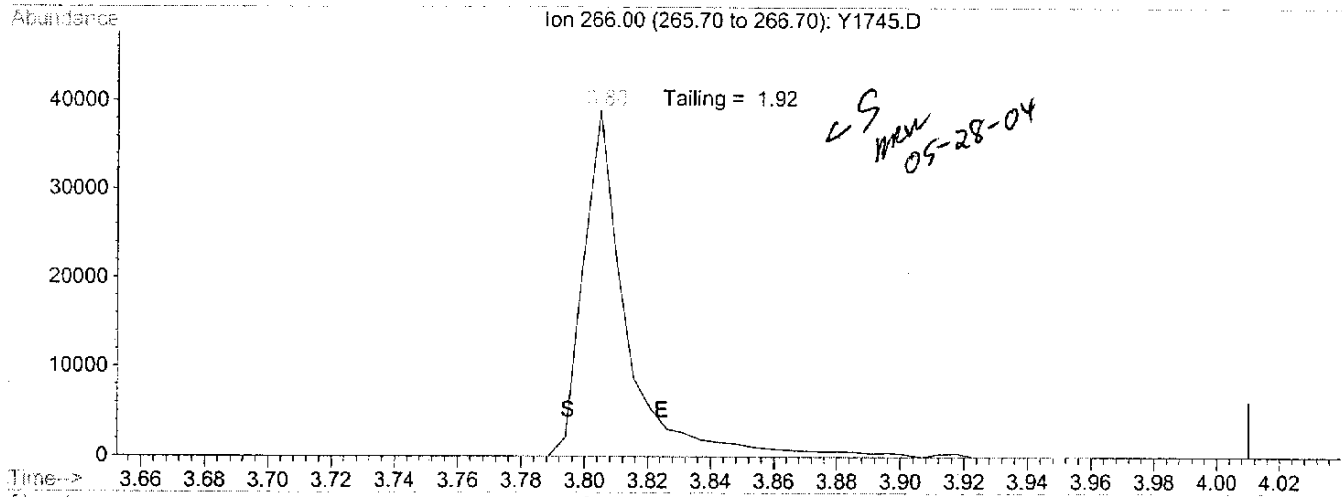
Column diameter: 0.25



# Quantitation Report

Data File : C:\HPCHEM\1\DATA\052804.B\Y1745.D Vial: 2  
 Acq On : 28 May 2004 6:22 am Operator: todear  
 Sample : 25NGOC DFTPP, BNA1512, P041904 E041905 Inst : GC/MS Ins  
 Misc : Multiplr: 1.00  
 Quant Time: May 28 6:31 19104 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\DFTPPB.M (RTE Integrator)  
 Title :  
 Last Update : Thu May 27 17:23:30 2004  
 Response via : Single Level Calibration



(1) Pentachlorophenol

3.80min 0.00ug/ml

response 37083

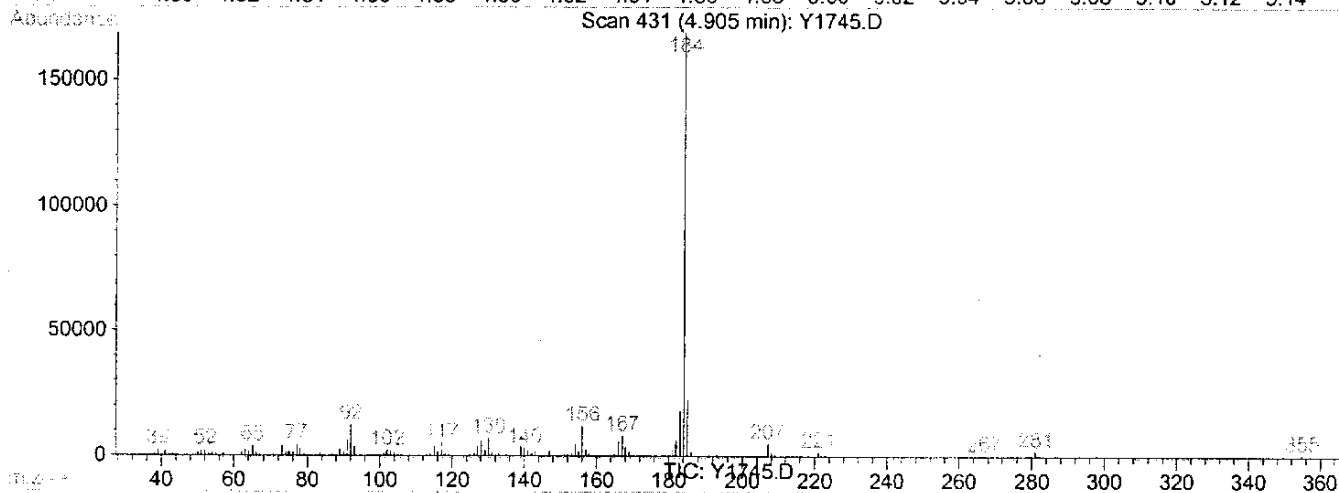
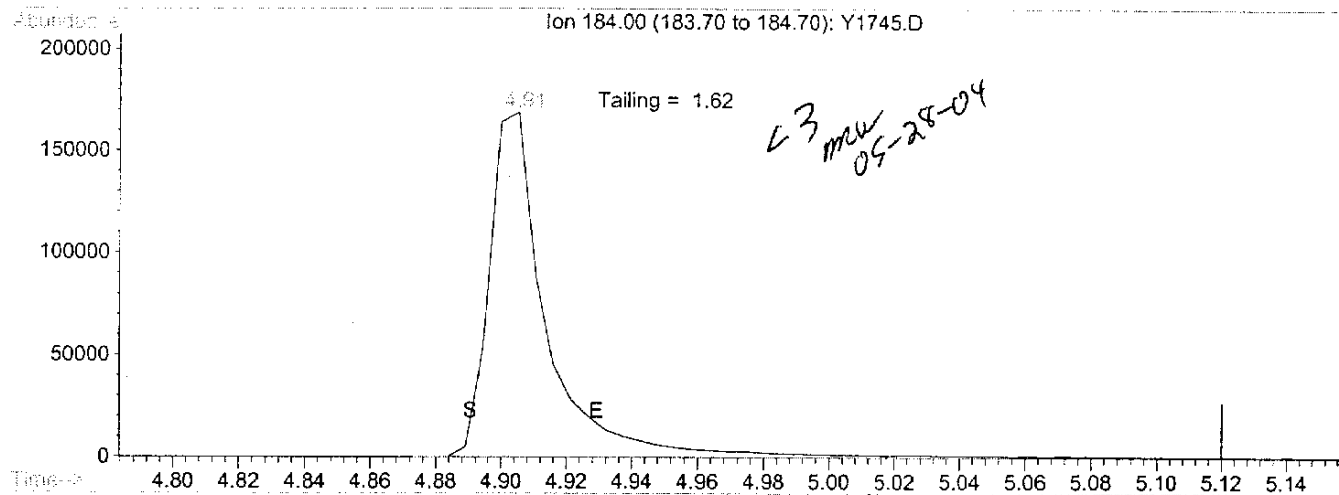
Ion	Exp%	Act%
266.00	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00



# Quantitation Report

Data File : C:\HPCHEM\1\DATA\052804.B\Y1745.D Vial: 2  
 Acq On : 28 May 2004 6:22 am Operator: todear  
 Sample : 25NGOC DFTPP,BNA1512,P041904 E041905 Inst : GC/MS Ins  
 Misc : Multiplr: 1.00  
 Quant Time: May 28 6:31 19104 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\DFTPPB.M (RTE Integrator)  
 Title :  
 Last Update : Thu May 27 17:23:30 2004  
 Response via : Single Level Calibration



## (3) Benzidine

4.91min 0.00ug/ml

response 206246

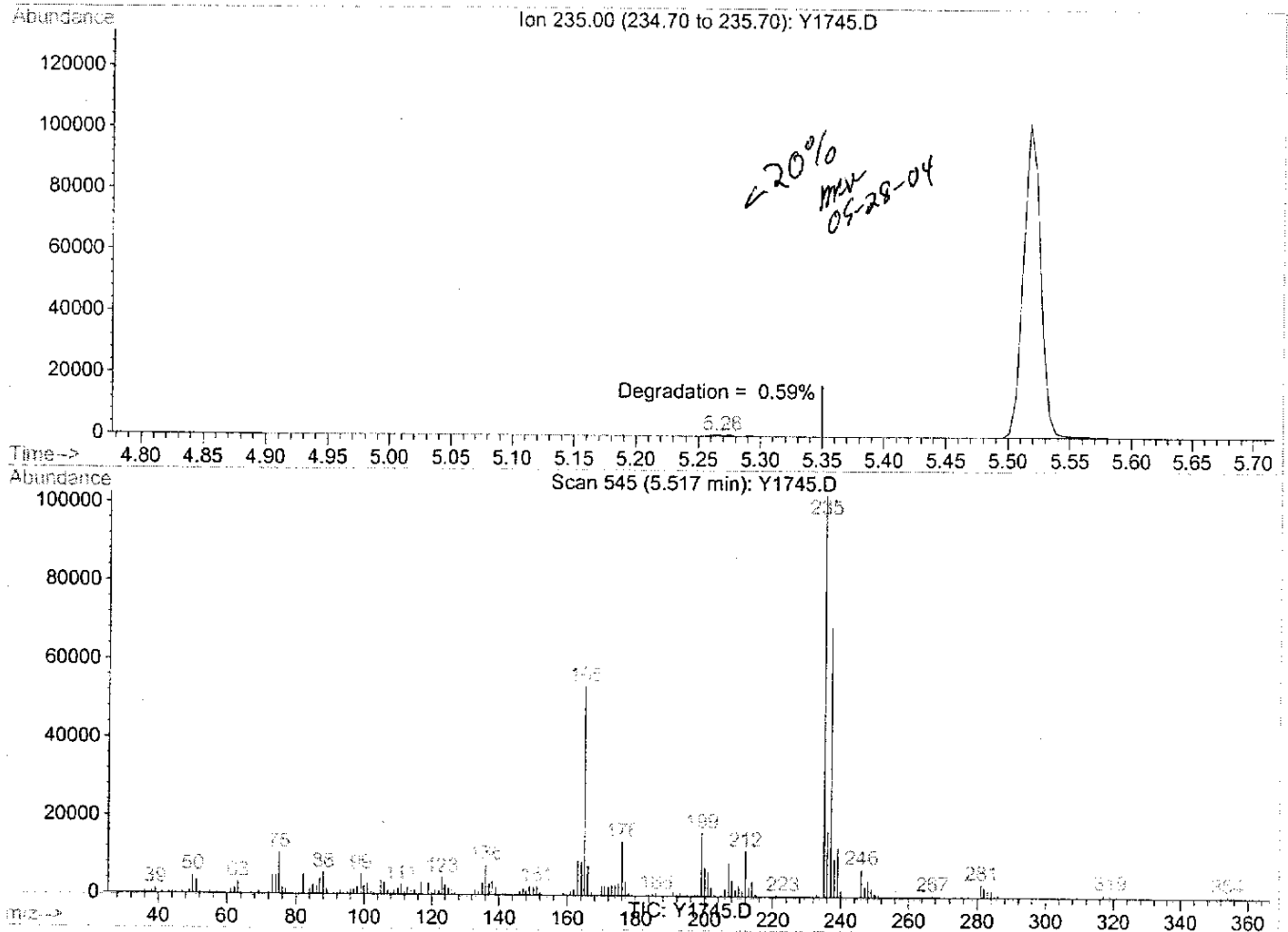
Ion	Exp%	Act%
184.00	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

# Quantitation Report

Data File : C:\HPCHEM\1\DATA\052804.B\Y1745.D  
 Acq On : 28 May 2004 6:22 am  
 Sample : 25NGOC DFTPP,BNA1512,P041904 E041905  
 Misc :  
 Quant Time: May 28 6:31 19104

Vial: 2  
 Operator: todear  
 Inst : GC/MS Ins  
 Multiplr: 1.00  
 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\DFTPPB.M (RTE Integrator)  
 Title :  
 Last Update : Thu May 27 17:23:30 2004  
 Response via : Single Level Calibration



(4) DDT (std)

5.52min 0.00ug/ml

response 98116

Ion	Exp%	Act%
235.00	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: Y.i  
Lab File ID: y1746.d  
Analysis Type: WATER

Injection Date: 28-MAY-2004 06:38  
Lab Sample ID: HSL 0080  
Method File: /chem/Y.i/052804.b/8270C.m

COMPOUND	RRF/CONC	RRF/CONC	CCAL RRF	MIN RRF	%D	MAX %D	CURVE TYPE
3 N-Nitrosodimethylamine	0.722078	0.740785	0.74078	0.01	2.59	50.0	Average
2 Pyridine	1.13168	1.10017	1.1002	0.01	2.78	50.0	Average
89 2-Fluorophenol	1.20206	1.31385	1.3138	0.01	9.30	50.0	Average
59 Phenol-d5	1.48783	1.60995	1.6100	0.01	8.21	50.0	Average
9 Phenol	1.56569	1.68650	1.6865	0.01	7.72	20.0	Average
13 Aniline	80.0000	107.637	1.7560	0.01	34.5	50.0	Quadratic
168 Methyl Styrene	1.33773	1.42154	1.4215	0.01	6.26	50.0	Average
15 Bis(2-chloroethyl) ether	1.23028	1.22170	1.2217	0.01	0.697	50.0	Average
206 Decane	1.14948	1.20206	1.2021	0.01	4.57	50.0	Average
142 2-Chlorophenol-d4	1.30187	1.36135	1.3613	0.01	4.57	50.0	Average
9 2-Chlorophenol	1.31710	1.44746	1.4474	0.01	9.90	50.0	Average
17 1,3-Dichlorobenzene	1.43626	1.54740	1.5474	0.01	7.74	50.0	Average
9 1,4-Dichlorobenzene	1.46810	1.59102	1.5910	0.01	8.37	20.0	Average
20 Benzyl alcohol	0.820173	0.863082	0.86308	0.01	5.23	50.0	Average
143 1,2-Dichlorobenzene-d4	0.827423	0.869104	0.86910	0.01	5.04	50.0	Average
21 1,2-Dichlorobenzene	1.36621	1.47399	1.4740	0.01	7.89	50.0	Average
22 2-Methylphenol	1.13737	1.19926	1.1993	0.01	5.44	50.0	Average
23 2,2'-oxybis(1-chloropropane)	1.49952	1.62019	1.6202	0.01	8.05	50.0	Average
136 1H-Indene	2.19793	2.30162	2.3016	0.01	4.72	50.0	Average
25 4-Methylphenol	1.15687	1.23014	1.2301	0.01	6.33	50.0	Average
9 N-nitrosodi-n-propylamine	0.852662	0.925526	0.92553	0.05	8.54	50.0	Average
26 Acetophenone	1.65276	1.77922	1.7792	0.01	7.65	50.0	Average
30 Hexachloroethane	0.543885	0.572141	0.57214	0.01	5.20	50.0	Average
8 Nitrobenzene-d5	1.30974	1.37071	1.3707	0.01	4.66	50.0	Average
32 Nitrobenzene	1.30716	1.35680	1.3568	0.01	3.80	50.0	Average
34 Isophorone	0.573194	0.581525	0.58152	0.01	1.45	50.0	Average
35 2-Nitrophenol	0.177066	0.184221	0.18422	0.01	4.04	20.0	Average
36 2,4-Dimethylphenol	0.305255	0.330176	0.33018	0.01	8.16	50.0	Average
39 Bis(2-chloroethoxy)methane	0.349625	0.342426	0.34243	0.01	2.06	50.0	Average
38 Benzoic acid	0.214425	0.211622	0.21162	0.01	1.31	50.0	Average
40 2,4-Dichlorophenol	0.267049	0.282763	0.28276	0.01	5.88	20.0	Average
213 n-Dodecane	0.497604	0.490433	0.49043	0.01	1.44	50.0	Average
9 1,2,4-Trichlorobenzene	0.300576	0.314616	0.31462	0.01	4.67	50.0	Average
44 Naphthalene	0.946805	0.995210	0.99521	0.01	5.11	50.0	Average
45 4-Chloroaniline	0.399031	0.410853	0.41085	0.01	2.96	50.0	Average
48 Hexachlorobutadiene	0.167971	0.166381	0.16638	0.01	0.946	20.0	Average
205 Caprolactam	0.110580	0.122605	0.12260	0.01	10.9	50.0	Average
9 4-Chloro-3-methylphenol	0.274947	0.286052	0.28605	0.01	4.04	20.0	Average
53 2-Methylnaphthalene	0.628043	0.622048	0.62205	0.01	0.954	50.0	Average

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: Y.i  
Lab File ID: y1746.d  
Analysis Type: WATER

Injection Date: 28-MAY-2004 06:38  
Lab Sample ID: HSL 0080  
Method File: /chem/Y.i/052804.b/8270C.m

COMPOUND	RRF/CONC	RRF/CONC	CCAL RRF	MIN RRF	%D	MAX %D	CURVE TYPE
138 1-Methylnaphthalene	0.631283	0.616070	0.61607	0.01	2.41	50.0	Average
54 Hexachlorocyclopentadiene	0.315865	0.328613	0.32861	0.05	4.04	50.0	Average
57 2,4,6-Trichlorophenol	0.303664	0.331768	0.33177	0.01	9.25	20.0	Average
207 2,3-Dichlorobenzeneamine	0.564210	0.554357	0.55436	0.01	1.75	50.0	Average
58 2,4,5-Trichlorophenol	0.351148	0.372243	0.37224	0.01	6.01	50.0	Average
11 2-Fluorobiphenyl	1.14856	1.18792	1.1879	0.01	3.43	50.0	Average
210 Tetradecane	0.485131	0.489620	0.48962	0.01	0.925	50.0	Average
61 2-Chloronaphthalene	0.992112	1.00952	1.0095	0.01	1.75	50.0	Average
63 2-Nitroaniline	0.286322	0.292094	0.29209	0.01	2.02	50.0	Average
65 Dimethyl phthalate	1.15025	1.10788	1.1079	0.01	3.68	50.0	Average
67 2,6-Dinitrotoluene	0.248891	0.256418	0.25642	0.01	3.02	50.0	Average
68 Acenaphthylene	1.59798	1.61681	1.6168	0.01	1.18	50.0	Average
69 3-Nitroaniline	0.284320	0.296793	0.29679	0.01	4.39	50.0	Average
9 Acenaphthene	1.04535	1.00567	1.0057	0.01	3.80	20.0	Average
72 2,4-Dinitrophenol	80.0000	76.7672	0.16196	0.05	4.04	50.0	WtLinear
9 4-Nitrophenol	0.147637	0.143675	0.14368	0.05	2.68	50.0	Average
9 2,4-Dinitrotoluene	0.313522	0.327910	0.32791	0.01	4.59	50.0	Average
76 Dibenzofuran	1.38625	1.34332	1.3433	0.01	3.10	50.0	Average
209 Hexadecane	0.622409	0.613508	0.61351	0.01	1.43	50.0	Average
80 Diethyl phthalate	1.02567	1.08036	1.0804	0.01	5.33	50.0	Average
84 4-Chlorophenyl phenyl ether	0.559783	0.555388	0.55539	0.01	0.785	50.0	Average
82 Fluorene	1.18366	1.15730	1.1573	0.01	2.23	50.0	Average
85 4-Nitroaniline	0.247746	0.256486	0.25648	0.01	3.53	50.0	Average
86 4,6-Dinitro-2-methylphenol	0.198194	0.220741	0.22074	0.01	11.4	50.0	Average
87 N-nitrosodiphenylamine	0.779784	0.781605	0.78160	0.01	0.234	20.0	Average
88 Azobenzene	1.00856	1.01752	1.0175	0.01	0.888	50.0	Average
114 2,4,6-Tribromophenol	0.0739819	0.0755664	0.075566	0.01	2.14	50.0	Average
94 4-Bromophenyl phenyl ether	0.181662	0.179032	0.17903	0.01	1.45	50.0	Average
95 Hexachlorobenzene	0.166872	0.171816	0.17182	0.01	2.96	50.0	Average
204 Atrazine	0.0155372	0.0240818	0.024082	0.01	55.0	50.0	Average
208 n-Octadecane	0.171378	0.166956	0.16696	0.01	2.58	50.0	Average
9 Pentachlorophenol	0.0898496	0.103435	0.10343	0.01	15.1	20.0	Average
104 Phenanthrene	0.933530	0.909111	0.90911	0.01	2.62	50.0	Average
105 Anthracene	0.938323	0.933908	0.93391	0.01	0.470	50.0	Average
134 Carbazole	0.762295	0.788005	0.78800	0.01	3.37	50.0	Average
202 Alachlor	0.110992	0.117074	0.11707	0.01	5.48	50.0	Average
107 Di-n-butyl phthalate	0.888349	0.939552	0.93955	0.01	5.76	50.0	Average
211 n-Eicosane	0.393815	0.406598	0.40660	0.01	3.24	50.0	Average
111 Fluoranthene	0.901062	0.825272	0.82527	0.01	8.41	20.0	Average

<-NTC

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: Y.i  
Lab File ID: y1746.d  
Analysis Type: WATER

Injection Date: 28-MAY-2004 06:38  
Lab Sample ID: HSL 0080  
Method File: /chem7Y.i/052804.b/8270C.m

COMPOUND	RRF/CONC	RRF/CONC	CCAL RRF	MIN RRF	%D	MAX %D	CURVE TYPE
212 n-docosane	0.306346	0.325522	0.32552	0.01	6.26	50.0	Average
112 Benzidine	80.0000	182.681	0.34138	0.01	128	50.0	WtLinear
9 Pyrene	1.32443	1.29546	1.2955	0.01	2.19	50.0	Average
31 Terphenyl-d14	0.864797	0.875351	0.87535	0.01	1.22	50.0	Average
117 Butyl benzyl phthalate	0.466871	0.504194	0.50419	0.01	7.99	50.0	Average
123 Bis(2-ethylhexyl) phthalate	0.603292	0.701614	0.70161	0.01	16.3	50.0	Average
119 3,3'-Dichlorobenzidine	0.355755	0.334860	0.33486	0.01	5.87	50.0	Average
120 Benzo(a)anthracene	1.08398	1.01332	1.0133	0.01	6.52	50.0	Average
122 Chrysene	1.02670	0.959513	0.95951	0.01	6.54	50.0	Average
124 Di-n-octyl phthalate	0.980636	1.06087	1.0609	0.01	8.18	20.0	Average
126 Benzo(b)fluoranthene	1.15637	1.13922	1.1392	0.01	1.48	50.0	Average
127 Benzo(k)fluoranthene	1.24463	1.29375	1.2938	0.01	3.95	50.0	Average
128 Benzo(a)pyrene	1.04858	1.08106	1.0810	0.01	3.10	20.0	Average
132 Dibenzo(a,h)anthracene	0.920516	0.933543	0.93354	0.01	1.42	50.0	Average
131 Indeno(1,2,3-cd)pyrene	1.01641	1.08810	1.0881	0.01	7.05	50.0	Average
133 Benzo(g,h,i)perylene	0.872512	0.926271	0.92627	0.01	6.16	50.0	Average

-NTC

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MLV  
05-28-04

BNA ANALYSIS QUANTITATION REPORT

Data file : /chem/Y.i/052804.b/y1746.d  
Lab Smp Id: HSL\_0080 Client Smp ID: HSL\_0080  
Inj Date : 28-MAY-2004 06:38  
Operator : todear Inst ID: Y.i  
Smp Info : HSL\_0080,BNA1509,P:052804,E:053104  
Misc Info :  
Comment : SOP#CORP-MS-0001DEN, revision1.1  
Method : /chem/Y.i/052804.b/8270C.m  
Meth Date : 28-May-2004 07:05 kiddd Quant Type: ISTD  
Cal Date : 26-MAY-2004 17:20 Cal File: y1684.d  
Als bottle: 3 Continuing Calibration Sample  
Dil Factor: 1.00000  
Integrator: HP RTE Compound Sublist: 1-HSL.sub  
Target Version: 3.50  
Processing Host: chemsv03

Concentration Formula: Amt \* DF \* Vf/Vs \* CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vf	1000.00000	final volume at end of extraction (uL)
Vs	1000.00000	volume of sample extracted (mL)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG				AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/ml)
ON-COL (ug/ml)						
* 22 1,4-Dichlorobenzene-d4	152	5.815	5.815	(1.000)	123037	40.0000
* 49 Naphthalene-d8	136	7.044	7.044	(1.000)	502806	40.0000
* 83 Acenaphthene-d10	164	8.757	8.757	(1.000)	302617	40.0000
* 117 Phenanthrene-d10	188	10.018	10.018	(1.000)	510447	40.0000
* 142 Chrysene-d12	240	12.165	12.165	(1.000)	320588	40.0000
* 151 Perylene-d12	264	13.582	13.582	(1.000)	235620	40.0000
\$ 36 Nitrobenzene-d5	82	6.352	6.352	(1.092)	337296	80.0000 83.7238
\$ 70 2-Fluorobiphenyl	172	8.091	8.091	(0.924)	718970	80.0000 82.7417
\$ 133 Terphenyl-d14	244	11.247	11.247	(0.925)	561254	80.0000 80.9763
\$ 10 2-Fluorophenol	112	4.613	4.613	(0.793)	484957	120.000 131.159
\$ 14 Phenol-d5	99	5.450	5.450	(0.937)	594252	120.000 129.850
\$ 103 2,4,6-Tribromophenol	330	9.449	9.449	(0.943)	115718	120.000 122.570
\$ 163 1,2-Dichlorobenzene-d4	152	5.965	5.965	(1.026)	213864	80.0000 84.0300
\$ 162 2-Chlorophenol-d4	132	5.606	5.606	(0.964)	502488	120.000 125.482
5 Pyridine	79	3.389	3.389	(0.583)	270723	80.0000 77.7722

Compounds	QUANT SIG					AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)
=====	=====	==	=====	=====	=====	=====	=====
4 N-Nitrosodimethylamine	74	3.346	3.346	(0.575)	182288	80.0000	82.0725
16 Aniline	93	5.515	5.515	(0.948)	432097	80.0000	107.637
15 Phenol	94	5.466	5.466	(0.940)	415005	80.0000	86.1731
18 Bis(2-chloroethyl) ether	93	5.552	5.552	(0.955)	300628	80.0000	79.4417
20 2-Chlorophenol	128	5.622	5.622	(0.967)	356182	80.0000	87.9179
21 1,3-Dichlorobenzene	146	5.761	5.761	(0.991)	380774	80.0000	86.1905
23 1,4-Dichlorobenzene	146	5.831	5.831	(1.003)	391509	80.0000	86.6980
24 Benzyl alcohol	108	5.939	5.939	(1.021)	212382	80.0000	84.1854
25 1,2-Dichlorobenzene	146	5.976	5.976	(1.028)	362711	80.0000	86.3111
26 2-Methylphenol	108	6.024	6.024	(1.036)	295107	80.0000	84.3534
27 1H-Indene	116	6.057	6.057	(1.042)	566369	80.0000	83.7742
28 2,2'-oxybis(1-chloropropane)	45	6.041	6.041	(1.039)	398687	80.0000	86.4378
29 4-Methylphenol	108	6.169	6.169	(1.061)	302705	80.0000	85.0663
30 N-nitrosodi-n-propylamine	70	6.175	6.175	(1.062)	227748	80.0000	86.8364
32 Acetophenone	105	6.196	6.196	(1.066)	437820	80.0000	86.1212
33 Hexachloroethane	117	6.298	6.298	(1.083)	140789	80.0000	84.1562
37 Nitrobenzene	77	6.368	6.368	(1.095)	333874	80.0000	83.0380
40 Isophorone	82	6.583	6.583	(0.934)	584789	80.0000	81.1628
41 2-Nitrophenol	139	6.669	6.669	(0.947)	185255	80.0000	83.2325
42 2,4-Dimethylphenol	107	6.679	6.679	(0.948)	332029	80.0000	86.5311
43 Bis(2-chloroethoxy)methane	93	6.765	6.765	(0.960)	344348	80.0000	78.3529
45 Benzoic acid	122	6.787	6.787	(0.963)	212810	80.0000	78.9545
46 2,4-Dichlorophenol	162	6.899	6.899	(0.979)	284350	80.0000	84.7074
47 1,2,4-Trichlorobenzene	180	6.980	6.980	(0.991)	316382	80.0000	83.7370
50 Naphthalene	128	7.066	7.066	(1.003)	1000795	80.0000	84.0900
51 4-Chloroaniline	127	7.114	7.114	(1.010)	413159	80.0000	82.3702
52 Hexachlorobutadiene	225	7.157	7.157	(1.016)	167315	80.0000	79.2426
59 4-Chloro-3-methylphenol	107	7.576	7.576	(1.075)	287657	80.0000	83.2311
62 2-Methylnaphthalene	142	7.742	7.742	(1.099)	625539	80.0000	79.2364
64 1-Methylnaphthalene	142	7.844	7.844	(1.114)	619527	80.0000	78.0720
63 Hexachlorocyclopentadiene	237	7.882	7.882	(0.900)	198888	80.0000	83.2288
67 2,4,6-Trichlorophenol	196	8.021	8.021	(0.916)	200797	80.0000	87.4037
68 2,4,5-Trichlorophenol	196	8.064	8.064	(0.921)	225294	80.0000	84.8059
71 2-Chloronaphthalene	162	8.236	8.236	(0.941)	610998	80.0000	81.4040
74 2-Nitroaniline	65	8.338	8.338	(0.952)	176785	80.0000	81.6126
76 Dimethyl phthalate	163	8.472	8.472	(0.968)	670528	80.0000	77.0536
79 2,6-Dinitrotoluene	165	8.553	8.553	(0.977)	155193	80.0000	82.4195
81 Acenaphthylene	152	8.633	8.633	(0.986)	978547	80.0000	80.9425
82 3-Nitroaniline	138	8.724	8.724	(0.996)	179629	80.0000	83.5093
84 Acenaphthene	153	8.784	8.784	(1.003)	608665	80.0000	76.9629
85 2,4-Dinitrophenol	184	8.810	8.810	(1.006)	98021	80.0000	76.7672
86 4-Nitrophenol	109	8.859	8.859	(1.012)	86957	80.0000	77.8529
87 2,4-Dinitrotoluene	165	8.923	8.923	(1.019)	198462	80.0000	83.6712
88 Dibenzofuran	168	8.939	8.939	(1.021)	813021	80.0000	77.5224
93 Diethyl phthalate	149	9.089	9.089	(1.038)	653868	80.0000	84.2654
95 4-Chlorophenyl phenyl ether	204	9.213	9.213	(1.052)	336140	80.0000	79.3719
96 Fluorene	166	9.234	9.234	(1.055)	700437	80.0000	78.2183

Compounds	QUANT SIG					AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)
=====	=====	==	=====	=====	=====	=====	=====
97 4-Nitroaniline	138	9.272	9.272	(1.059)	155234	80.0000	82.8220
99 4,6-Dinitro-2-methylphenol	198	9.277	9.277	(1.059)	133600	80.0000	89.1010
101 N-nitrosodiphenylamine	169	9.320	9.320	(1.064)	473054	80.0000	80.1869
102 Azobenzene	77	9.352	9.352	(1.068)	615835	80.0000	80.7103
108 4-Bromophenyl phenyl ether	248	9.626	9.626	(0.961)	182773	80.0000	78.8419
110 Hexachlorobenzene	284	9.696	9.696	(0.968)	175406	80.0000	82.3704
113 Pentachlorophenol	266	9.857	9.857	(0.984)	105596	80.0000	92.0960
118 Phenanthrene	178	10.040	10.040	(1.002)	928106	80.0000	77.9074
122 Anthracene	178	10.077	10.077	(1.006)	953420	80.0000	79.6235
123 Carbazole	167	10.206	10.206	(1.019)	804470	80.0000	82.6982
125 Di-n-butyl phthalate	149	10.394	10.394	(1.038)	959183	80.0000	84.6110
130 Fluoranthene	202	10.984	10.984	(1.096)	842515	80.0000	73.2711
131 Benzidine	184	11.081	11.081	(0.911)	218885	80.0000	182.681
132 Pyrene	202	11.178	11.178	(0.919)	830620	80.0000	78.2501
137 Butyl benzyl phthalate	149	11.596	11.596	(0.953)	323277	80.0000	86.3953
140 3,3'-Dichlorobenzidine	252	12.106	12.106	(0.995)	214704	80.0000	75.3013
141 Benzo(a)anthracene	228	12.154	12.154	(0.999)	649715	80.0000	74.7848
144 Chrysene	228	12.187	12.187	(1.002)	615217	80.0000	74.7648
143 Bis(2-ethylhexyl) phthalate	149	12.015	12.015	(0.988)	449858	80.0000	93.0381
146 Di-n-octyl phthalate	149	12.552	12.552	(1.032)	683685	80.0000	86.9884
147 Benzo(b)fluoranthene	252	13.142	13.142	(0.968)	536848	80.0000	78.8135
148 Benzo(k)fluoranthene	252	13.169	13.169	(0.970)	609669	80.0000	83.1575
150 Benzo(a)pyrene	252	13.518	13.518	(0.995)	509437	80.0000	82.4776
155 Indeno(1,2,3-cd)pyrene	276	15.069	15.069	(1.109)	512756	80.0000	85.6428
156 Dibenzo(a,h)anthracene	278	15.064	15.064	(1.109)	439923	80.0000	81.1321
157 Benzo(g,h,i)perylene	276	15.541	15.541	(1.144)	436496	80.0000	84.9291
168 Methyl Styrene	118	5.536	5.536	(0.952)	349805	80.0000	85.0121
202 Alachlor	188	10.254	10.254	(1.024)	119520	80.0000	84.3832
204 Atrazine	200	9.734	9.734	(0.972)	24585	80.0000	123.996
205 Caprolactam	55	7.490	7.490	(1.063)	123293	80.0000	88.6995
207 2,3-Dichlorobenzeneamine	161	8.032	8.032	(0.917)	335516	80.0000	78.6030
206 Decane	43	5.595	5.595	(0.962)	295797	80.0000	83.6596
213 n-Dodecane	43	6.953	6.953	(0.794)	296827	80.0000	78.8472
210 Tetradecane	43	8.113	8.113	(0.926)	296335	80.0000	80.7403
209 Hexadecane	57	9.052	9.052	(1.034)	371316	80.0000	78.8559
208 n-Octadecane	85	9.809	9.809	(0.979)	170444	80.0000	77.9354
211 n-Eicosane	43	10.453	10.453	(1.194)	246087	80.0000	82.5968
212 n-docosane	43	11.043	11.043	(1.261)	197017	80.0000	85.0078



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INTERNAL STANDARD COMPOUNDS  
 AREA AND RT SUMMARY

Instrument ID: Y.i  
 Lab File ID: y1746.d  
 Lab Smp Id: HSL\_0080  
 Analysis Type: SV  
 Quant Type: ISTD  
 Operator: todear  
 Method File: /chem/Y.i/052804.b/8270C.m  
 Misc Info:

Calibration Date: 28-MAY-2004  
 Calibration Time: 06:38  
 Client Smp ID: HSL\_0080  
 Level: LOW  
 Sample Type: WATER

Test Mode:  
 Use Last Continuing Calibrator.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
22 1,4-Dichlorobenze	123037	61518	246074	123037	0.00
49 Naphthalene-d8	502806	251403	1005612	502806	0.00
83 Acenaphthene-d10	302617	151308	605234	302617	0.00
117 Phenanthrene-d10	510447	255224	1020894	510447	0.00
142 Chrysene-d12	320588	160294	641176	320588	0.00
151 Perylene-d12	235620	117810	471240	235620	0.00

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
22 1,4-Dichlorobenze	5.82	5.32	6.32	5.82	0.00
49 Naphthalene-d8	7.04	6.54	7.54	7.04	0.00
83 Acenaphthene-d10	8.76	8.26	9.26	8.76	0.00
117 Phenanthrene-d10	10.02	9.52	10.52	10.02	0.00
142 Chrysene-d12	12.17	11.67	12.67	12.17	0.00
151 Perylene-d12	13.58	13.08	14.08	13.58	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.

Internal Standard  
Check Report

Instrument ID: Y.i  
Lab File ID: y1746.d  
Analysis Type: WATER

Injection Date: 28-MAY-2004 06:38  
Lab Sample ID: HSL 0080  
Method File: /chem/Y.i/052804.b/8270C.m

INTERNAL STANDARD	ICAL AREA	SAMP AREA	ICAL RT	SAMP RT	%R
=====	=====	=====	=====	=====	=====
1,4-Dichlorobenzene-d4	162127	123037	5.818	5.815	75.9
Naphthalene-d8	630966	502806	7.047	7.044	79.7
Acenaphthene-d10	368193	302617	8.759	8.757	82.2
Phenanthrene-d10	591673	510447	10.021	10.018	86.3
Chrysene-d12	385856	320588	12.162	12.165	83.1
Perylene-d12	295607	235620	13.590	13.582	79.7

Data File: /chem/Y.i/052804.b/y1746.d

Date : 28-MAY-2004 06:38

Client ID: HSL\_0080

Sample Info: HSL\_0080,BNA1509,P:052804,E:053104

Volume Injected (uL): 0.5

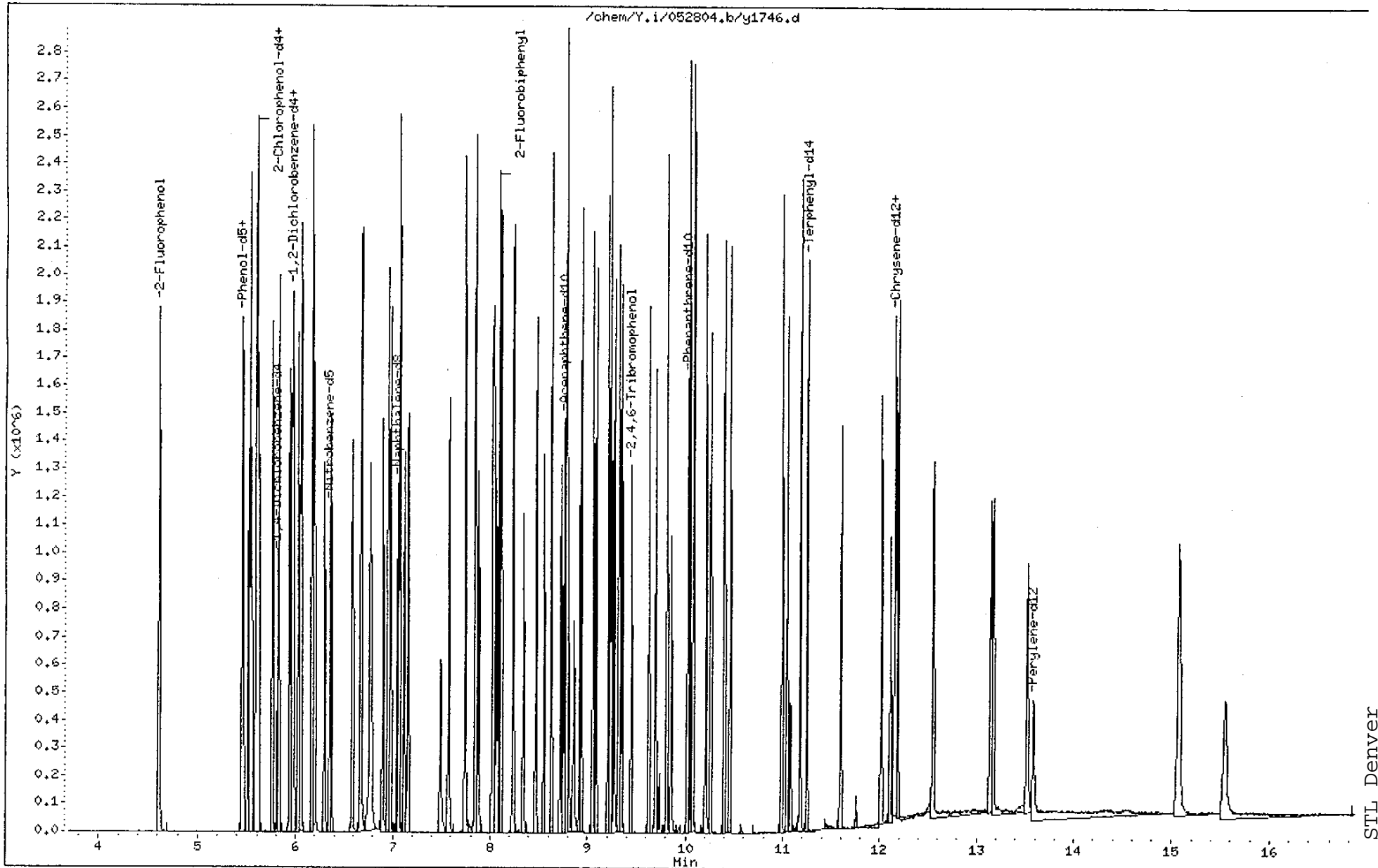
Column phase: Rtx-5ms 30m 0.5um

Instrument: Y.i

Operator: todean

Column diameter: 0.25

Page 5



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CONTINUING CALIBRATION COMPOUNDS

Instrument ID: Y.i Injection Date: 28-MAY-2004 07:05  
Lab File ID: y1747.d Init. Cal. Date(s): 06-MAY-2004 27-MAY-2004  
Analysis Type: WATER Init. Cal. Times: 10:56 21:14  
Lab Sample ID: AP9 0080 Quant Type: ISTD  
Method: /chem/Y.i/052804.b/8270C.m

COMPOUND	RRF / AMOUNT	RF80	CCAL RRF80	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
7 2-Picoline	1.15597	1.39902	1.39902	0.010	21.0	50.0	Averaged
8 N-Nitrosomethylethylamine	0.54446	0.60973	0.60973	0.010	12.0	50.0	Averaged
9 Methyl methanesulfonate	0.32891	0.36978	0.36978	0.010	12.4	50.0	Averaged
11 N-Nitrosodiethylamine	0.53931	0.63102	0.63102	0.010	17.0	50.0	Averaged
13 Ethyl methanesulfonate	0.81951	0.94323	0.94323	0.010	15.1	50.0	Averaged
19 Pentachloroethane	0.39183	0.48983	0.48983	0.010	25.0	50.0	Averaged
31 N-Nitrosopyrrolidine	0.55645	0.65876	0.65876	0.010	18.4	50.0	Averaged
34 N-Nitrosomorpholine	0.23800	0.28710	0.28710	0.010	20.6	50.0	Averaged
35 o-Toluidine	1.70563	2.09688	2.09688	0.010	22.9	50.0	Averaged
39 N-Nitrosopiperidine	0.14783	0.16420	0.16420	0.010	11.1	50.0	Averaged
44 O,O,O-Triethyl phosphorothi	0.16265	0.18242	0.18242	0.010	12.2	50.0	Averaged
48 a,a-Dimethylphenethylamine	0.69047	0.67499	0.67499	0.010	-2.2	50.0	Averaged
53 2,6-Dichlorophenol	0.24908	0.27722	0.27722	0.010	11.3	50.0	Averaged
54 Hexachloropropene	0.17516	0.20043	0.20043	0.010	14.4	50.0	Averaged
57 N-Nitrosodi-n-butylamine	0.18668	0.21447	0.21447	0.010	14.9	50.0	Averaged
58 p-Phenylenediamine	0.27437	0.28395	0.28395	0.010	3.5	50.0	Averaged
61 Safrole	0.24115	0.26848	0.26848	0.010	11.3	50.0	Averaged
65 1,2,4,5-Tetrachlorobenzene	0.28169	0.31151	0.31151	0.010	10.6	50.0	Averaged
66 Isosafrole (#1)	0.30080	0.31195	0.31195	0.010	3.7	50.0	Averaged
72 Isosafrole (#2)	0.22894	0.28676	0.28676	0.010	25.3	50.0	Averaged
73 1-Chloronaphthalene	0.92251	1.01445	1.01445	0.010	10.0	50.0	Averaged
75 1,4-Naphthoquinone	0.21188	0.24183	0.24183	0.010	14.1	50.0	Averaged
78 1,4-Dinitrobenzene	0.15106	0.18545	0.18545	0.010	22.8	50.0	Averaged
80 1,3-Dinitrobenzene	0.17968	0.20411	0.20411	0.010	13.6	50.0	Averaged
89 Pentachlorobenzene	0.40686	0.45133	0.45133	0.010	10.9	50.0	Averaged
90 1-Naphthylamine	103	80.00000	1.11292	0.010	28.6	50.0	Quadratic
91 2,3,4,6-Tetrachlorophenol	0.27400	0.31621	0.31621	0.010	15.4	50.0	Averaged
92 2-Naphthylamine	0.97841	1.10939	1.10939	0.010	13.4	50.0	Averaged
98 Thionazin	0.20466	0.25047	0.25047	0.010	22.4	50.0	Averaged
100 5-Nitro-o-toluidine	0.29459	0.32682	0.32682	0.010	10.9	50.0	Averaged
182 Diphenylamine	100	80.00000	1.05331	0.010	25.2	50.0	Quadratic
104 Sulfotepp	0.07771	0.10478	0.10478	0.010	34.8	50.0	Averaged
105 1,3,5-Trinitrobenzene	0.04746	0.05562	0.05562	0.010	17.2	50.0	Averaged
106 Diallate (#1)	0.26475	0.31739	0.31739	0.010	19.9	50.0	Averaged
107 Phorate	0.10328	0.12949	0.12949	0.010	25.4	50.0	Averaged

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CONTINUING CALIBRATION COMPOUNDS

Instrument ID: Y.i                      Injection Date: 28-MAY-2004 07:05  
Lab File ID: y1747.d                  Init. Cal. Date(s): 06-MAY-2004    27-MAY-2004  
Analysis Type: WATER                  Init. Cal. Times:    10:56                  21:14  
Lab Sample ID: AP9 0080              Quant Type:    ISTD  
Method: /chem/Y.i/052804.b/8270C.m

COMPOUND	RRF / AMOUNT	RF80	CCAL RRF80	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
109 Phenacetin	0.22832	0.27238	0.27238	0.010	19.3	50.0	Averaged
111 Diallate (#2)	0.15847	0.16951	0.16951	0.010	7.0	50.0	Averaged
112 Dimethoate	0.16416	0.16906	0.16906	0.010	3.0	50.0	Averaged
114 4-Aminobiphenyl	111	80.00000	0.65348	0.010	39.3	50.0	Quadratic
115 Pentachloronitrobenzene	97.75727	80.00000	0.07679	0.010	22.2	50.0	Quadratic
116 Pronamide	111	80.00000	0.23687	0.010	39.1	50.0	Quadratic
120 2-secbutyl-4,6-dinitrophenol	104	80.00000	0.15393	0.010	30.4	50.0	Wt Linear
121 Disulfoton	0.23626	0.28383	0.28383	0.010	20.1	50.0	Averaged
124 Methyl parathion	0.14567	0.16610	0.16610	0.010	14.0	50.0	Averaged
126 Parathion	0.08980	0.11032	0.11032	0.010	22.9	50.0	Averaged
127 4-Nitroquinoline-1-oxide	0.05029	0.03371	0.03371	0.010	-33.0	50.0	Averaged
128 Methapyrilene	0.12232	0.10696	0.10696	0.010	-12.6	50.0	Averaged
129 Isodrin	0.09499	0.10890	0.10890	0.010	14.6	50.0	Averaged
134 Aramite (#1)	0.11166	0.15487	0.15487	0.010	38.7	50.0	Averaged
135 Aramite (#2)	0.14392	0.18974	0.18974	0.010	31.8	50.0	Averaged
136 p-Dimethylaminoazobenzene	0.23233	0.32124	0.32124	0.010	38.3	50.0	Averaged
138 3,3'-Dimethylbenzidine	0.47921	0.54942	0.54942	0.010	14.7	50.0	Averaged
139 2-Acetylaminofluorene	0.29128	0.38145	0.38145	0.010	31.0	50.0	Averaged
149 7,12-Dimethylbenz(a)anthrac	0.49860	0.58987	0.58987	0.010	18.3	50.0	Averaged
152 3-Methylcholanthrene	0.51482	0.58858	0.58858	0.010	14.3	50.0	Averaged
153 Dibenz(a,j)acridine	0.67765	0.81355	0.81355	0.010	20.1	50.0	Averaged
M 1 Total Isosafrole	0.24152	0.29117	0.29117	0.010	20.6	50.0	Averaged
M 2 Total Diallate	0.23514	0.27720	0.27720	0.010	17.9	50.0	Averaged
M 3 Total Aramite	0.12891	0.17215	0.17215	0.010	33.5	50.0	Averaged
165 Chlorobenzilate	0.26342	0.34207	0.34207	0.010	29.9	50.0	Averaged
199 1,4-Dioxane	0.46132	0.54032	0.54032	0.010	17.1	50.0	Averaged
175 Biphenyl	1.17402	1.36761	1.36761	0.010	16.5	50.0	Averaged

REV  
65-28-04

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BNA ANALYSIS QUANTITATION REPORT

Data file : /chem/Y.i/052804.b/y1747.d  
Lab Smp Id: AP9\_0080 Client Smp ID: AP9\_0080  
Inj Date : 28-MAY-2004 07:05  
Operator : todear Inst ID: Y.i  
Smp Info : AP9\_0080,BNA1406,P:052804,E:060404  
Misc Info :  
Comment : SOP#CORP-MS-0001DEN, revision1.1  
Method : /chem/Y.i/052804.b/8270C.m  
Meth Date : 28-May-2004 07:38 kiddd Quant Type: ISTD  
Cal Date : 26-MAY-2004 17:20 Cal File: y1684.d  
Als bottle: 4 Continuing Calibration Sample  
Dil Factor: 1.00000  
Integrator: HP RTE Compound Sublist: 2-AP9std.sub  
Target Version: 3.50

Concentration Formula: Amt \* DF \* Vf/Vs \* CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vf	1000.00000	final volume at end of extraction (uL)
Vs	1000.00000	volume of sample extracted (mL)

Cpnd Variable Local Compound Variable

Compounds	QUANT	SIG						AMOUNTS	
			MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT	ON-COL
								(ug/ml)	(ug/ml)
* 22 1,4-Dichlorobenzene-d4	152		5.812	5.812	(1.000)		108165	40.0000	
* 49 Naphthalene-d8	136		7.041	7.041	(1.000)		447844	40.0000	
* 83 Acenaphthene-d10	164		8.754	8.754	(1.000)		267258	40.0000	
* 117 Phenanthrene-d10	188		10.020	10.020	(1.000)		456741	40.0000	
* 142 Chrysene-d12	240		12.173	12.173	(1.000)		294698	40.0000	
* 151 Perylene-d12	264		13.595	13.595	(1.000)		212106	40.0000	
7 2-Picoline	93		4.094	4.094	(0.704)		302650	80.0000	96.8204
8 N-Nitrosomethylethylamine	88		4.196	4.196	(0.722)		131902	80.0000	89.5900(M)
9 Methyl methanesulfonate	80		4.476	4.476	(0.770)		79995	80.0000	89.9426
11 N-Nitrosodiethylamine	102		4.830	4.830	(0.831)		136509	80.0000	93.6045
13 Ethyl methanesulfonate	79		5.098	5.098	(0.877)		204048	80.0000	92.0769
19 Pentachloroethane	117		5.554	5.554	(0.956)		105965	80.0000	100.010
31 N-Nitrosopyrrolidine	100		6.193	6.193	(1.066)		142510	80.0000	94.7100
34 N-Nitrosomorpholine	116		6.220	6.220	(1.070)		62108	80.0000	96.5053
35 o-Toluidine	106		6.225	6.225	(1.071)		453618	80.0000	98.3510
39 N-Nitrosopiperidine	114		6.515	6.515	(0.925)		147068	80.0000	88.8565

Compounds	QUANT SIG					AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)
=====	=====	==	=====	=====	=====	=====	=====
44 O,O,O-Triethyl phosphorothio	198	6.719	6.719	(0.954)	163395	80.0000	89.7232
48 a,a-Dimethylphenethylamine	58	6.853	6.853	(0.973)	604583	80.0000	78.2071 (M)
53 2,6-Dichlorophenol	162	7.122	7.122	(1.011)	248301	80.0000	89.0362
54 Hexachloropropene	213	7.138	7.138	(1.014)	179520	80.0000	91.5409
57 N-Nitrosodi-n-butylamine	84	7.406	7.406	(1.052)	192096	80.0000	91.9061
58 p-Phenylenediamine	108	7.471	7.471	(1.061)	254326	80.0000	82.7914
61 Safrole	162	7.637	7.637	(1.085)	240474	80.0000	89.0658
65 1,2,4,5-Tetrachlorobenzene	216	7.906	7.906	(1.123)	279012	80.0000	88.4668
66 Isosafrole (#1)	162	7.927	7.927	(0.906)	29179	14.0000	14.5188
72 Isosafrole (#2)	104	8.152	8.152	(0.931)	126455	66.0000	82.6684
73 1-Chloronaphthalene	162	8.260	8.260	(0.944)	542238	80.0000	87.9731
75 1,4-Naphthoquinone	158	8.410	8.410	(0.961)	129260	80.0000	91.3053
78 1,4-Dinitrobenzene	168	8.464	8.464	(0.967)	99126	80.0000	98.2155
80 1,3-Dinitrobenzene	168	8.534	8.534	(0.975)	109099	80.0000	90.8750
89 Pentachlorobenzene	250	8.893	8.893	(1.016)	241242	80.0000	88.7440
90 1-Naphthylamine	143	9.017	9.017	(1.030)	594875	80.0000	102.913
91 2,3,4,6-Tetrachlorophenol	232	9.044	9.044	(1.033)	169021	80.0000	92.3252
92 2-Naphthylamine	143	9.086	9.086	(1.038)	592988	80.0000	90.7096
98 Thionazin	97	9.162	9.162	(1.047)	133879	80.0000	97.9075
100 5-Nitro-o-toluidine	152	9.253	9.253	(1.057)	174690	80.0000	88.7517
182 Diphenylamine	169	9.317	9.317	(1.064)	563013	80.0000	100.149
104 Sulfotepp	97	9.398	9.398	(0.938)	95716	80.0000	107.864
105 1,3,5-Trinitrobenzene	213	9.548	9.548	(0.953)	50805	80.0000	93.7494
106 Diallate (#1)	86	9.527	9.527	(0.951)	209476	57.8000	69.2938
107 Phorate	121	9.543	9.543	(0.952)	118286	80.0000	100.300
109 Phenacetin	108	9.570	9.570	(0.955)	248810	80.0000	95.4380
111 Diallate (#2)	86	9.607	9.607	(0.959)	43743	22.6000	24.1740
112 Dimethoate	87	9.709	9.709	(0.969)	154437	80.0000	82.3883
114 4-Aminobiphenyl	169	9.849	9.849	(0.983)	596946	80.0000	111.417
115 Pentachloronitrobenzene	237	9.859	9.859	(0.984)	70142	80.0000	97.7573
116 Pronamide	173	9.854	9.854	(0.983)	216374	80.0000	111.252
120 2-secbutyl-4,6-dinitropheno	211	9.967	9.967	(0.995)	140608	80.0000	104.350
121 Disulfoton	88	9.961	9.961	(0.994)	259273	80.0000	96.1076
124 Methyl parathion	109	10.278	10.278	(1.026)	151729	80.0000	91.2196
126 Parathion	109	10.568	10.568	(1.055)	100774	80.0000	98.2832
127 4-Nitroquinoline-1-oxide	190	10.665	10.665	(1.064)	30793	80.0000	53.6294
128 Methapyrilene	97	10.659	10.659	(1.064)	97703	80.0000	69.9506
129 Isodrin	193	10.858	10.858	(1.084)	99476	80.0000	91.7157
134 Aramite (#1)	185	11.185	11.185	(0.919)	41074	36.0000	49.9290
135 Aramite (#2)	185	11.244	11.244	(0.924)	60390	43.2000	56.9563
136 p-Dimethylaminoazobenzene	120	11.362	11.362	(0.933)	189338	80.0000	110.616
138 3,3'-Dimethylbenzidine	212	11.647	11.647	(0.957)	323827	80.0000	91.7217
139 2-Acetylaminofluorene	181	11.872	11.872	(0.975)	224825	80.0000	104.767
149 7,12-Dimethylbenz(a)anthrac	256	13.123	13.123	(0.965)	250229	80.0000	94.6442
152 3-Methylcholanthrene	268	13.912	13.912	(1.023)	249682	80.0000	91.4611
153 Dibenz(a,j)acridine	279	14.755	14.755	(1.085)	345120	80.0000	96.0446
M 1 Total Isosafrole	162				155635	80.0000	96.4467

Compounds	QUANT SIG					AMOUNTS		
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)	
=====	=====	==	=====	=====	=====	=====	=====	
M 2 Total Diallate	86				253219	80.0000	94.3101	
M 3 Total Aramite	185				101464	80.0000	106.838	
165 Chlorobenzilate	251	11.373	11.373	(0.934)	201614	80.0000	103.885	
199 1,4-Dioxane	88	2.999	2.999	(0.516)	116887	80.0000	93.6997	
175 Biphenyl	154	8.201	8.201	(0.937)	731009	80.0000	93.1916	

#### QC Flag Legend

M - Compound response manually integrated.



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INTERNAL STANDARD COMPOUNDS  
AREA AND RT SUMMARY

Instrument ID: Y.i  
Lab File ID: y1747.d  
Lab Smp Id: AP9\_0080  
Analysis Type: SV  
Quant Type: ISTD  
Operator: todear  
Method File: /chem/Y.i/052804.b/8270C.m  
Misc Info:

Calibration Date: 28-MAY-2004  
Calibration Time: 06:38  
Client Smp ID: AP9\_0080  
Level: LOW  
Sample Type: WATER

Test Mode:  
Use Last Continuing Calibrator.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
22 1,4-Dichlorobenze	108165	54082	216330	108165	0.00
49 Naphthalene-d8	447844	223922	895688	447844	0.00
83 Acenaphthene-d10	267258	133629	534516	267258	0.00
117 Phenanthrene-d10	456741	228370	913482	456741	0.00
142 Chrysene-d12	294698	147349	589396	294698	0.00
151 Perylene-d12	212106	106053	424212	212106	0.00

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
22 1,4-Dichlorobenze	5.81	5.31	6.31	5.81	0.00
49 Naphthalene-d8	7.04	6.54	7.54	7.04	0.00
83 Acenaphthene-d10	8.75	8.25	9.25	8.75	0.00
117 Phenanthrene-d10	10.02	9.52	10.52	10.02	0.00
142 Chrysene-d12	12.17	11.67	12.67	12.17	0.00
151 Perylene-d12	13.60	13.10	14.10	13.60	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.

Internal Standard  
Check Report

Instrument ID: Y.i  
Lab File ID: y1747.d  
Analysis Type: WATER

Injection Date: 28-MAY-2004 07:05  
Lab Sample ID: AP9 0080  
Method File: /chem/Y.i/052804.b/8270C.m

INTERNAL STANDARD	ICAL AREA	SAMP AREA	ICAL RT	SAMP RT	%R
=====	=====	=====	=====	=====	=====
1,4-Dichlorobenzene-d4	162998	108165	5.919	5.812	66.4
Naphthalene-d8	638638	447844	7.148	7.041	70.1
Acenaphthene-d10	386064	267258	8.860	8.754	69.2
Phenanthrene-d10	680326	456741	10.122	10.020	67.1
Chrysene-d12	508928	294698	12.269	12.173	57.9
Perylene-d12	379385	212106	13.772	13.595	55.9

Data File: /chem/Y.i/052804.b/y1747.d

Date : 28-MAY-2004 07:05

Client ID: AP9\_0080

Sample Info: AP9\_0080,BNA1406,P:052804,E:060404

Volume Injected (uL): 0.5

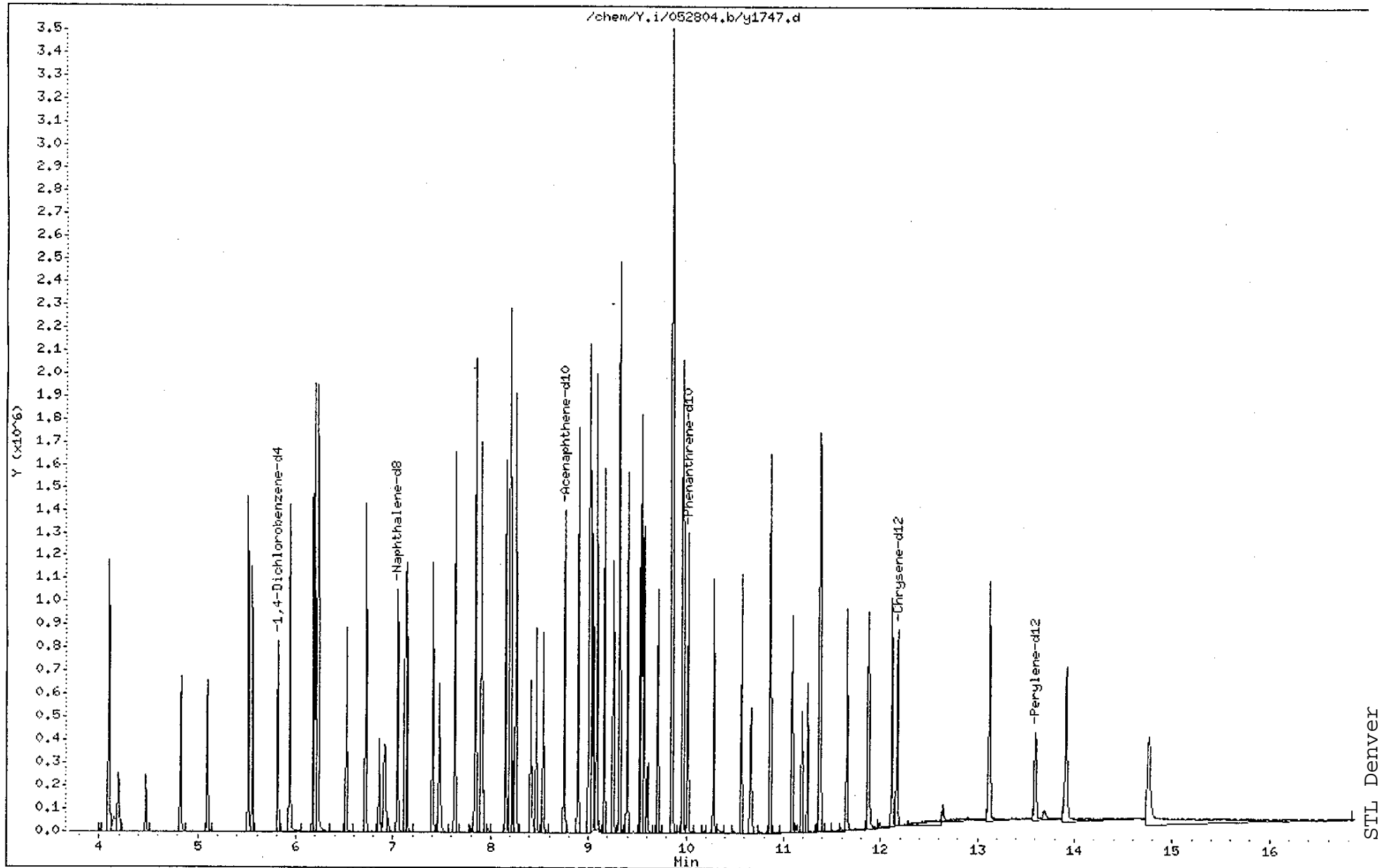
Column phase: Rtx-5ms 30m 0.5um

Instrument: Y.i

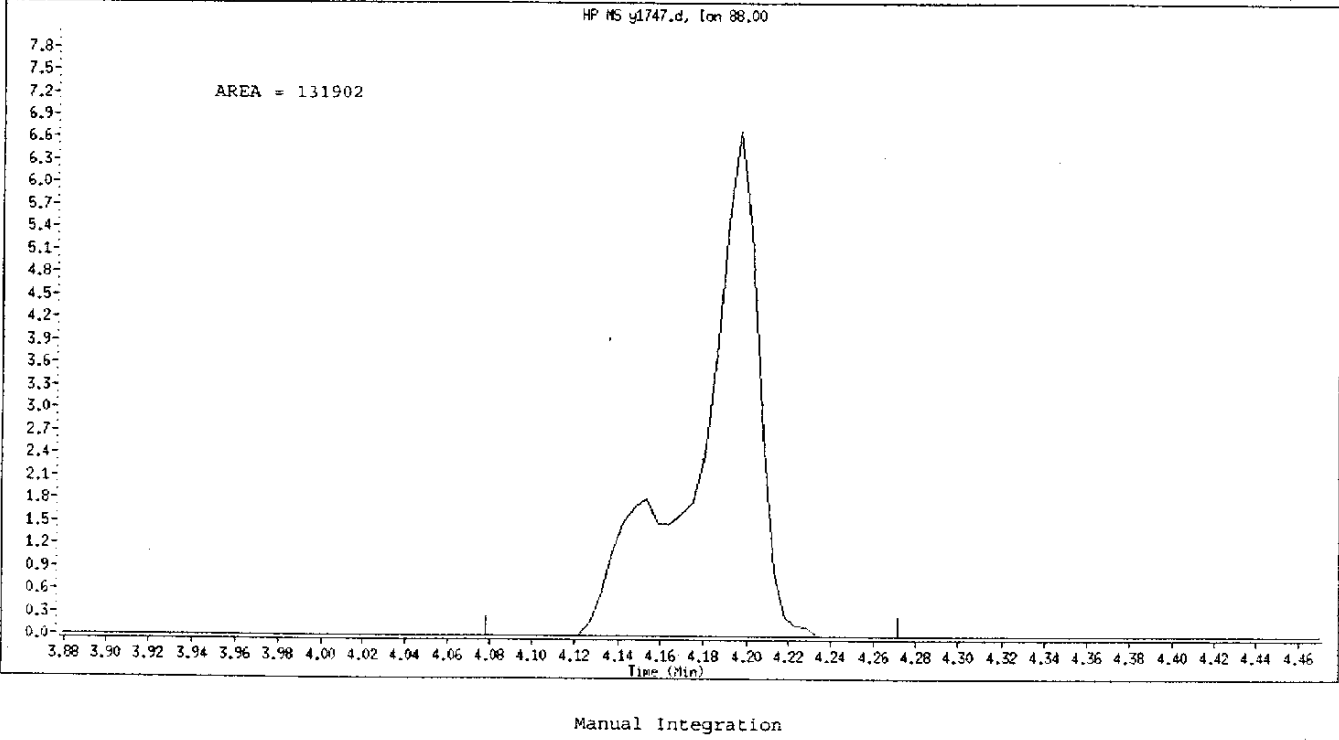
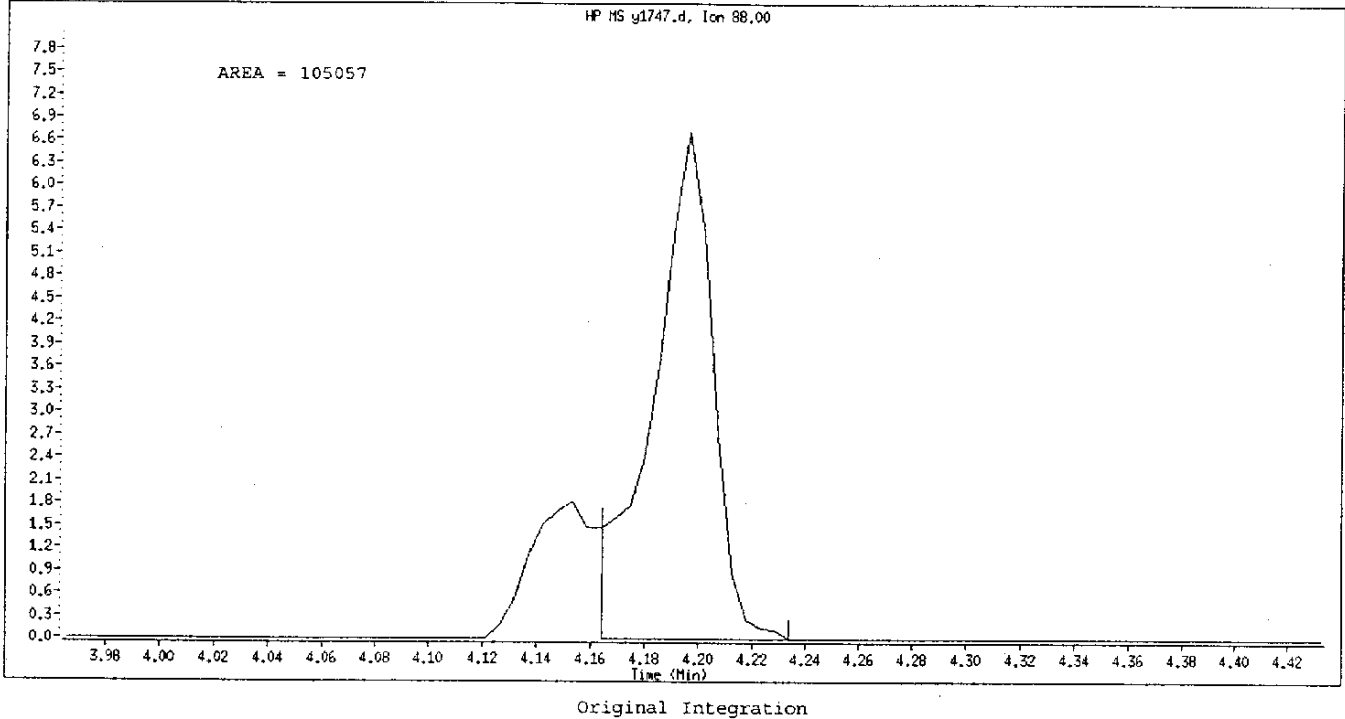
Operator: todear

Column diameter: 0.25

Page 5



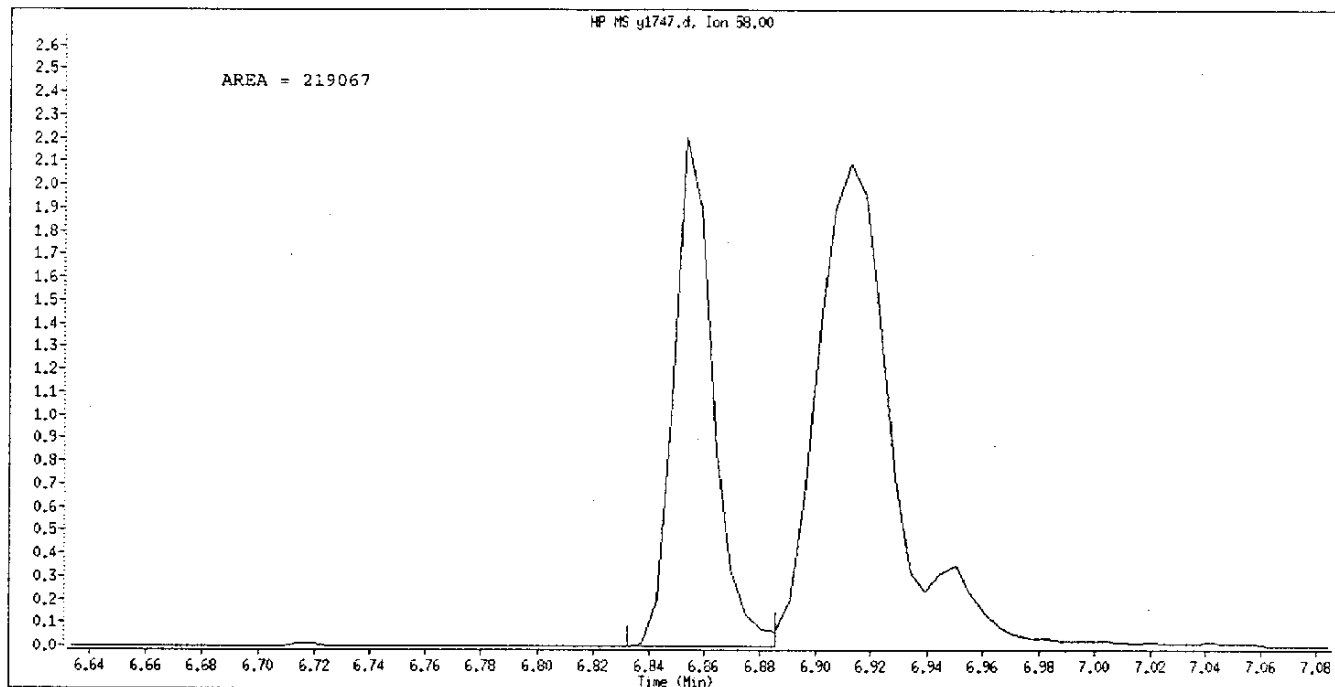
Data File Name: y1747.d  
Inj. Date and Time: 28-MAY-2004 07:05  
Instrument ID: Y.i  
Client ID: AP9\_0080  
Compound Name: N-Nitrosomethylethylamine  
CAS #: 10595-95-6  
Report Date: 05/28/2004



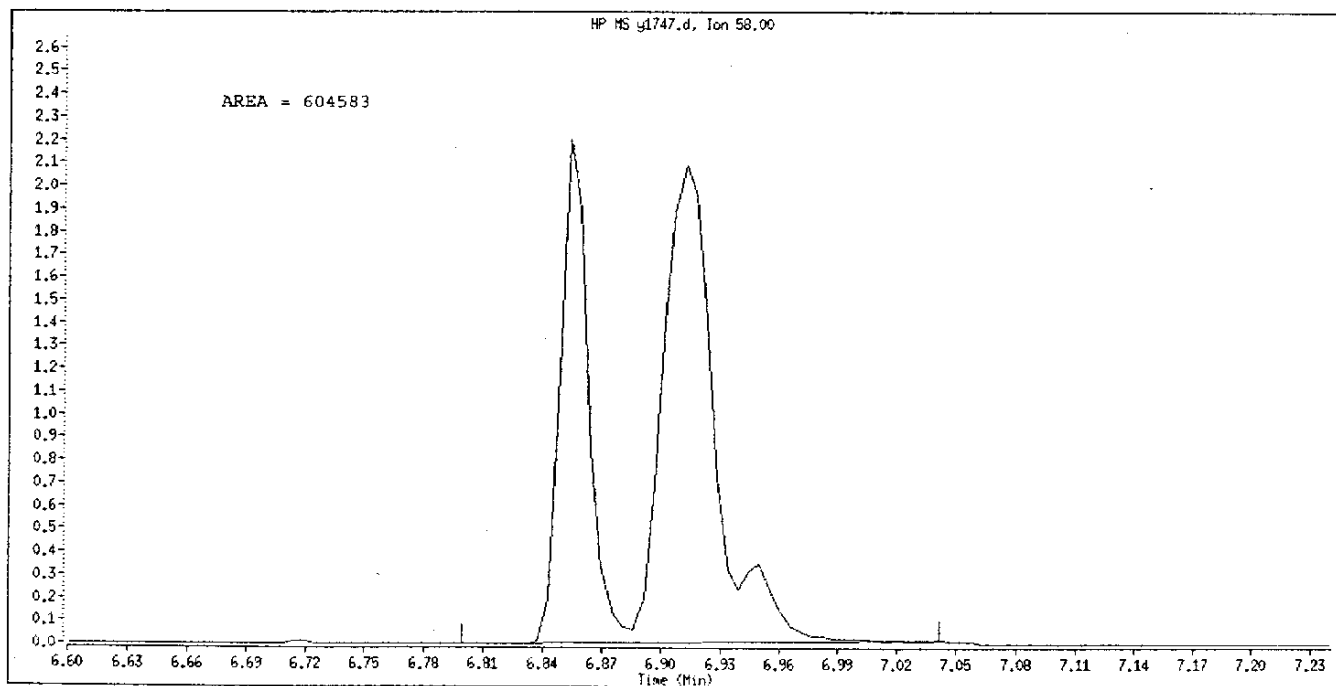
Manually Integrated By: kiddd  
Manual Integration Reason: Split Peak

*MAN*  
*05-28-04*  
*shguy*  
*5*

Data File Name: y1747.d  
Inj. Date and Time: 28-MAY-2004 07:05  
Instrument ID: Y.i  
Client ID: AP9\_0080  
Compound Name: a,a-Dimethylphenethylamine  
CAS #: 122-09-8  
Report Date: 05/28/2004



Original Integration



Manual Integration

Manually Integrated By: Kidd  
Manual Integration Reason: Split Peak

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CONTINUING CALIBRATION COMPOUNDS

Instrument ID: Y.i                      Injection Date: 28-MAY-2004 07:31  
Lab File ID: y1748.d                  Init. Cal. Date(s): 06-MAY-2004    27-MAY-2004  
Analysis Type: WATER                  Init. Cal. Times:    10:56                  21:14  
Lab Sample ID: REF 0080              Quant Type:    ISTD  
Method: /chem/Y.i/052804.b/8270C.m

COMPOUND	RRF / AMOUNT	RF80	CCAL RRF80	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
56 Quinoline	0.60928	0.63505	0.63505	0.010	4.2	50.0	Averaged
145 6-Methyl chrysene	0.65307	0.70489	0.70489	0.010	7.9	50.0	Averaged
154 Dibenz(a,h)acridine	0.80747	0.83048	0.83048	0.010	2.9	50.0	Averaged
195 Phthalic anhydride	0.38999	0.41043	0.41043	0.010	5.2	50.0	Averaged
17 Benzenethiol	1.01875	1.22482	1.22482	0.010	20.2	50.0	Averaged

05-28-04

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BNA ANALYSIS QUANTITATION REPORT

Data file : /chem/Y.i/052804.b/y1748.d  
Lab Smp Id: REF\_0080 Client Smp ID: REF\_0080  
Inj Date : 28-MAY-2004 07:31  
Operator : todear Inst ID: Y.i  
Smp Info : REF\_0080,BNA1445,P:052804,E:060404  
Misc Info :  
Comment : SOP#CORP-MS-0001DEN, revision1.1  
Method : /chem/Y.i/052804.b/8270C.m  
Meth Date : 28-May-2004 07:57 kiddd Quant Type: ISTD  
Cal Date : 26-MAY-2004 17:20 Cal File: y1684.d  
Als bottle: 5 Continuing Calibration Sample  
Dil Factor: 1.00000  
Integrator: HP RTE Compound Sublist: 3-REF.sub  
Target Version: 3.50

Concentration Formula: Amt \* DF \* Vf/Vs \* CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vf	1000.00000	final volume at end of extraction (uL)
Vs	1000.00000	volume of sample extracted (mL)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG				RESPONSE	AMOUNTS	
	MASS	RT	EXP RT	REL RT		CAL-AMT (ug/ml)	ON-COL (ug/ml)
*****	****	**	*****	*****	*****	*****	*****
* 22 1,4-Dichlorobenzene-d4	152	5.813	5.813	(1.000)	107177	40.0000	
* 49 Naphthalene-d8	136	7.042	7.042	(1.000)	441861	40.0000	
* 83 Acenaphthene-d10	164	8.754	8.754	(1.000)	269806	40.0000	
* 117 Phenanthrene-d10	188	10.016	10.016	(1.000)	488108	40.0000	
* 142 Chrysene-d12	240	12.168	12.168	(1.000)	340595	40.0000	
* 151 Perylene-d12	264	13.585	13.585	(1.000)	272450	40.0000	
56 Quinoline	129	7.402	7.402	(1.051)	561212	80.0000	83.3840
145 6-Methyl chrysene	242	12.560	12.560	(1.032)	480167	80.0000	86.3476
154 Dibenz(a,h)acridine	279	14.675	14.675	(1.080)	452531	80.0000	82.2800
195 Phthalic anhydride	76	7.815	7.815	(0.893)	221474	80.0000	84.1946
17 Benzenethiol	110	5.459	5.459	(0.939)	262545	80.0000	96.1819

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INTERNAL STANDARD COMPOUNDS  
AREA AND RT SUMMARY

Instrument ID: Y.i  
Lab File ID: y1748.d  
Lab Smp Id: REF 0080  
Analysis Type: SV  
Quant Type: ISTD  
Operator: todear  
Method File: /chem/Y.i/052804.b/8270C.m  
Misc Info:

Calibration Date: 28-MAY-2004  
Calibration Time: 07:05  
Client Smp ID: REF\_0080  
Level: LOW  
Sample Type: WATER

Test Mode:  
Use Last Continuing Calibrator.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
22 1,4-Dichlorobenze	107177	53588	214354	107177	0.00
49 Naphthalene-d8	441861	220930	883722	441861	0.00
83 Acenaphthene-d10	269806	134903	539612	269806	0.00
117 Phenanthrene-d10	488108	244054	976216	488108	0.00
142 Chrysene-d12	340595	170298	681190	340595	0.00
151 Perylene-d12	272450	136225	544900	272450	0.00

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
22 1,4-Dichlorobenze	5.81	5.31	6.31	5.81	0.00
49 Naphthalene-d8	7.04	6.54	7.54	7.04	0.00
83 Acenaphthene-d10	8.75	8.25	9.25	8.75	0.00
117 Phenanthrene-d10	10.02	9.52	10.52	10.02	0.00
142 Chrysene-d12	12.17	11.67	12.67	12.17	0.00
151 Perylene-d12	13.59	13.09	14.09	13.59	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.



Internal Standard  
Check Report

Instrument ID: Y.i                      Injection Date: 28-MAY-2004 07:31  
Lab File ID: y1748.d                  Lab Sample ID: REF 0080  
Analysis Type: WATER                  Method File: /chem/Y.i/052804.b/8270C.m

INTERNAL STANDARD	ICAL AREA	SAMP AREA	ICAL RT	SAMP RT	%R
=====	=====	=====	=====	=====	=====
1,4-Dichlorobenzene-d4	185766	107177	5.916	5.813	57.7
Naphthalene-d8	718046	441861	7.151	7.042	61.5
Acenaphthene-d10	451591	269806	8.858	8.754	59.7
Phenanthrene-d10	807520	488108	10.119	10.016	60.4
Chrysene-d12	645004	340595	12.239	12.168	52.8
Perylene-d12	472879	272450	13.737	13.585	57.6

Data File: /chem/Y.i/052804.b/y1748.d

Date : 28-MAY-2004 07:31

Client ID: REF\_0080

Sample Info: REF\_0080,BNA1445,P:052804,E:060404

Volume Injected (uL): 0.5

Column phase: Rtx-5ms 30m 0.5um

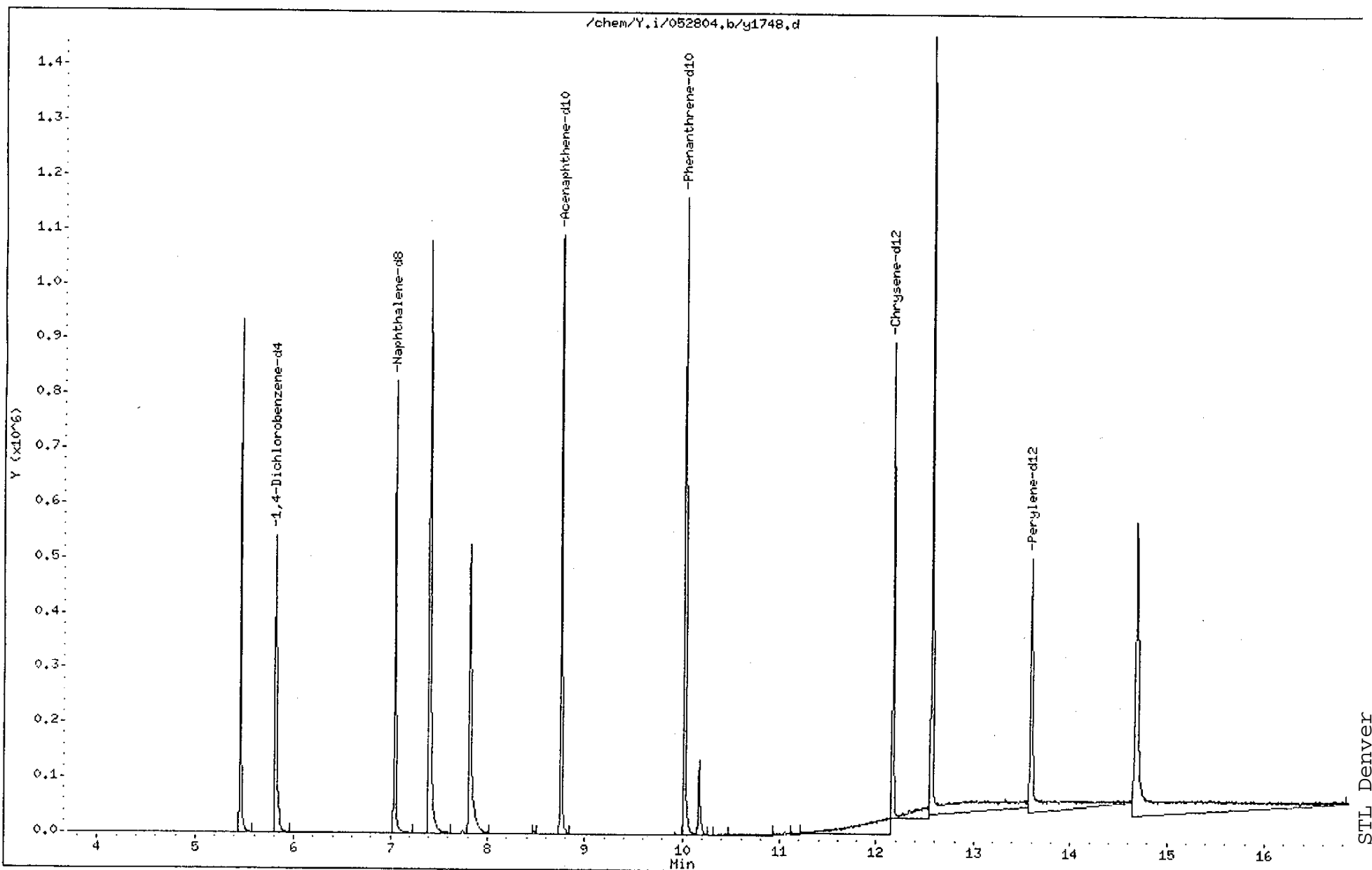
Instrument: Y.i

Operator: todear

Column diameter: 0.25

Page 3

/chem/Y.i/052804.b/y1748.d



STL-Denver

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: Y.i Injection Date: 28-MAY-2004 08:26  
 Lab File ID: y1750.d Init. Cal. Date(s): 06-MAY-2004 27-MAY-2004  
 Analysis Type: WATER Init. Cal. Times: 10:56 21:14  
 Lab Sample ID: CUST0080 Quant Type: ISTD  
 Method: /chem/Y.i/052804.b/8270C.m

COMPOUND	RRF / AMOUNT	RF80	CCAL RRF80	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
\$ 184 2,4,6-Trichlorophenol-d2	0.48989	0.50437	0.50437	0.010	3.0	50.0	Averaged
185 Triethylamine	1.08673	1.11835	1.11835	0.010	2.9	50.0	Averaged
186 N,N-Dimethylformamide	0.92309	0.85663	0.85663	0.010	-7.2	50.0	Averaged
69 2,4 & 2,6-Toluenediamine	1.05552	1.04082	1.04082	0.010	-1.4	50.0	Averaged
188 Benzal chloride	2.07488	1.90836	1.90836	0.010	-8.0	50.0	Averaged
189 Carbofuran phenol	0.20801	0.22807	0.22807	0.010	9.6	50.0	Averaged
191 4,4'-Methylenebis(2-chloroa	0.16010	0.16106	0.16106	0.010	0.6	50.0	Averaged
193 Methomyl	0.04377	0.03680	0.03680	0.010	-15.9	50.0	Averaged
166 Famphur	0.03211	0.02906	0.02906	0.010	-9.5	50.0	Averaged
178 Perylene	1.16016	1.02325	1.02325	0.010	-11.8	50.0	Averaged
194 Acrylamide	0.50744	0.39712	0.39712	0.010	-21.7	50.0	Averaged
197 2-Ethoxyethanol	0.65226	0.63780	0.63780	0.010	-2.2	50.0	Averaged
201 Triethylphosphate	0.23731	0.26405	0.26405	0.010	11.3	50.0	Averaged

no tris  
 MW  
 05-28-04

STL-Denver

BNA ANALYSIS QUANTITATION REPORT

Data file : /chem/Y.i/052804.b/y1750.d  
Lab Smp Id: CUST0080 Client Smp ID: CUST0080  
Inj Date : 28-MAY-2004 08:26  
Operator : todear Inst ID: Y.i  
Smp Info : CUST0080,BNA1518,P:052804,E:060404  
Misc Info :  
Comment : SOP#CORP-MS-0001DEN, revision1.1  
Method : /chem/Y.i/052804.b/8270C.m  
Meth Date : 28-May-2004 09:35 kiddd Quant Type: ISTD  
Cal Date : 26-MAY-2004 17:20 Cal File: y1684.d  
Als bottle: 7 Continuing Calibration Sample  
Dil Factor: 1.00000  
Integrator: HP RTE Compound Sublist: 4-CUST.sub  
Target Version: 3.50

Concentration Formula: Amt \* DF \* Vf/Vs \* CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vf	1000.00000	final volume at end of extraction (uL)
Vs	1000.00000	volume of sample extracted (mL)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG				AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/ml)
*****	----	--	-----	-----	-----	ON-COL (ug/ml)
* 22 1,4-Dichlorobenzene-d4	152	5.813	5.813	(1.000)	110653	40.0000
* 49 Naphthalene-d8	136	7.042	7.042	(1.000)	405718	40.0000
* 83 Acenaphthene-d10	164	8.754	8.754	(1.000)	266979	40.0000
* 117 Phenanthrene-d10	188	10.016	10.016	(1.000)	486807	40.0000
* 142 Chrysene-d12	240	12.168	12.168	(1.000)	345109	40.0000
* 151 Perylene-d12	264	13.591	13.591	(1.000)	268545	40.0000
\$ 184 2,4,6-Trichlorophenol-d2	198	8.013	8.013	(0.915)	269313	80.0000 82.3649
185 Triethylamine	86	2.737	2.737	(0.471)	247498	80.0000 82.3278
186 N,N-Dimethylformamide	73	3.746	3.746	(0.644)	189577	80.0000 74.2400
69 2,4 & 2,6-Toluenediamine	122	8.207	8.207	(0.937)	555756	80.0000 78.8861
188 Benzal chloride	125	6.698	6.698	(1.152)	422332	80.0000 73.5798
189 Carbofuran phenol	164	7.648	7.648	(1.086)	185065	80.0000 87.7136
191 4,4'-Methylenebis(2-chloroani	231	12.104	12.104	(0.995)	111168	80.0000 80.4784
192 tris(2,3-Dibromopropyl)phos	201	Compound Not Detected.				
193 Methomyl	58	6.076	6.076	(0.694)	19652	80.0000 67.2708
166 Pamphur	218	11.583	11.583	(0.952)	20057	80.0000 72.3978

Compounds	QUANT SIG						AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE		CAL-AMT	ON-COL
							(ug/ml)	(ug/ml)
178 Perylene	252	13.628	13.628	(1.003)	549575		80.0000	70.5589
194 Acrylamide	71	4.498	4.498	(0.774)	87885		80.0000	62.6078 (MH)
197 2-Ethoxyethanol	59	2.995	2.995	(0.515)	141150		80.0000	78.2270
201 Triethylphosphate	99	6.441	6.441	(0.915)	214260		80.0000	89.0143

#### QC Flag Legend

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

STL-Denver

INTERNAL STANDARD COMPOUNDS  
AREA AND RT SUMMARY

Instrument ID: Y.i  
Lab File ID: y1750.d  
Lab Smp Id: CUST0080  
Analysis Type: SV  
Quant Type: ISTD  
Operator: todear  
Method File: /chem/Y.i/052804.b/8270C.m  
Misc Info:

Calibration Date: 28-MAY-2004  
Calibration Time: 06:38  
Client Smp ID: CUST0080  
Level: LOW  
Sample Type: WATER

Test Mode:  
Use Last Continuing Calibrator.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
=====	=====	=====	=====	=====	=====
22 1,4-Dichlorobenze	110653	55326	221306	110653	0.00
49 Naphthalene-d8	405718	202859	811436	405718	0.00
83 Acenaphthene-d10	266979	133490	533958	266979	0.00
117 Phenanthrene-d10	486807	243404	973614	486807	0.00
142 Chrysene-d12	345109	172554	690218	345109	0.00
151 Perylene-d12	268545	134272	537090	268545	0.00

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
=====	=====	=====	=====	=====	=====
22 1,4-Dichlorobenze	5.81	5.31	6.31	5.81	0.00
49 Naphthalene-d8	7.04	6.54	7.54	7.04	0.00
83 Acenaphthene-d10	8.75	8.25	9.25	8.75	0.00
117 Phenanthrene-d10	10.02	9.52	10.52	10.02	0.00
142 Chrysene-d12	12.17	11.67	12.67	12.17	0.00
151 Perylene-d12	13.59	13.09	14.09	13.59	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.

Internal Standard  
Check Report

Instrument ID: Y.i  
Lab File ID: y1750.d  
Analysis Type: WATER

Injection Date: 28-MAY-2004 08:26  
Lab Sample ID: CUST0080  
Method File: /chem/Y.i/052804.b/8270C.m

INTERNAL STANDARD	ICAL AREA	SAMP AREA	ICAL RT	SAMP RT	%R
=====	=====	=====	=====	=====	=====
1,4-Dichlorobenzene-d4	134175	110653	5.918	5.813	82.5
Naphthalene-d8	537526	405718	7.152	7.042	75.5
Acenaphthene-d10	313414	266979	8.859	8.754	85.2
Phenanthrene-d10	577920	486807	10.126	10.016	84.2
Chrysene-d12	453767	345109	12.279	12.168	76.1
Perylene-d12	356689	268545	13.787	13.591	75.3

Data File: /chem/Y.i/052804.b/y1750.d

Page 4

Date : 28-MAY-2004 08:26

Client ID: CUST0080

Instrument: Y.i

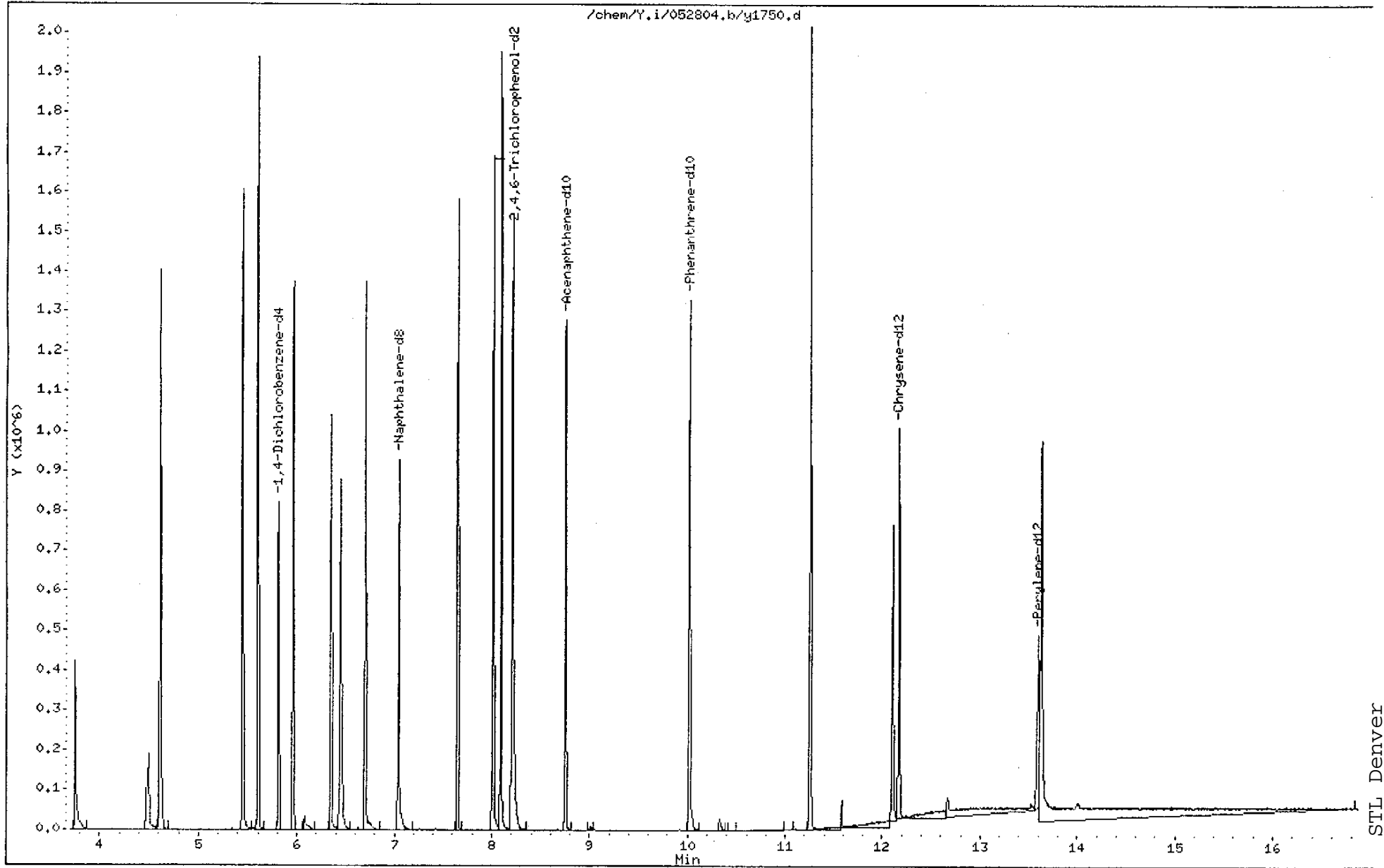
Sample Info: CUST0080,BNA1518,P:052804,E:060404

Volume Injected (uL): 0.5

Operator: todear

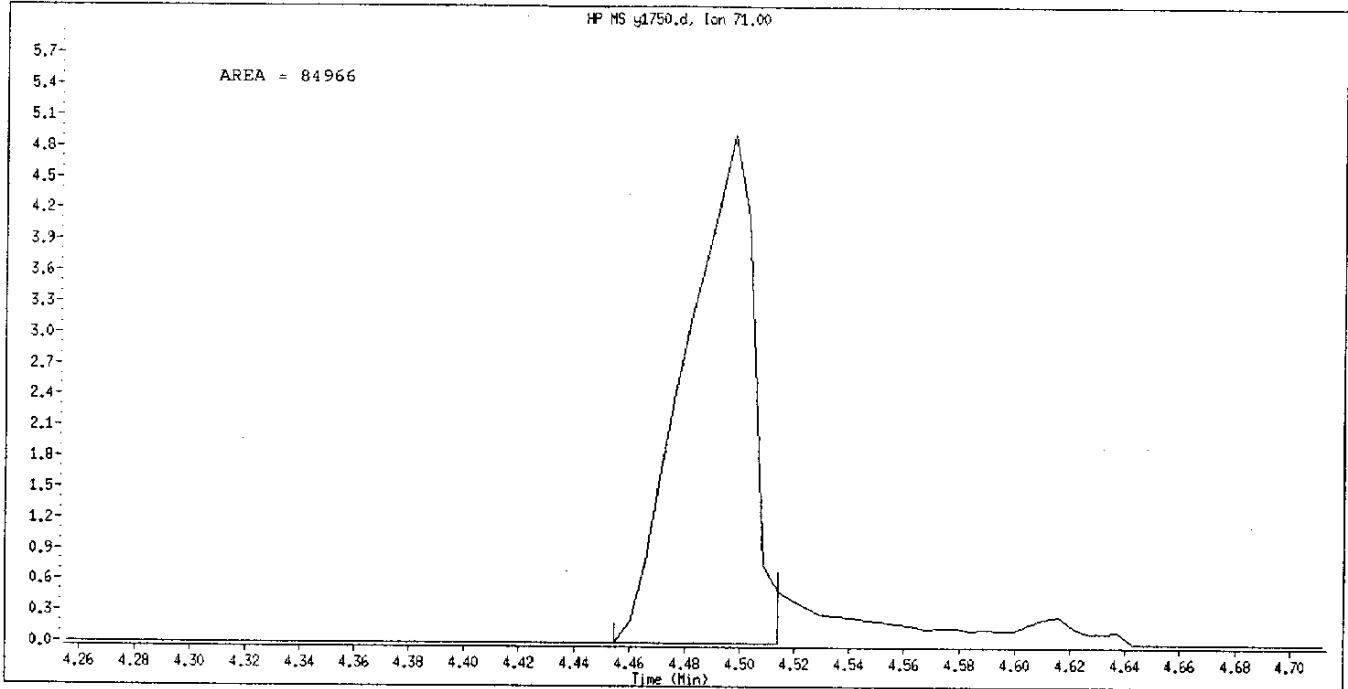
Column phase: Rtx-5ms 30m 0.5um

Column diameter: 0.25

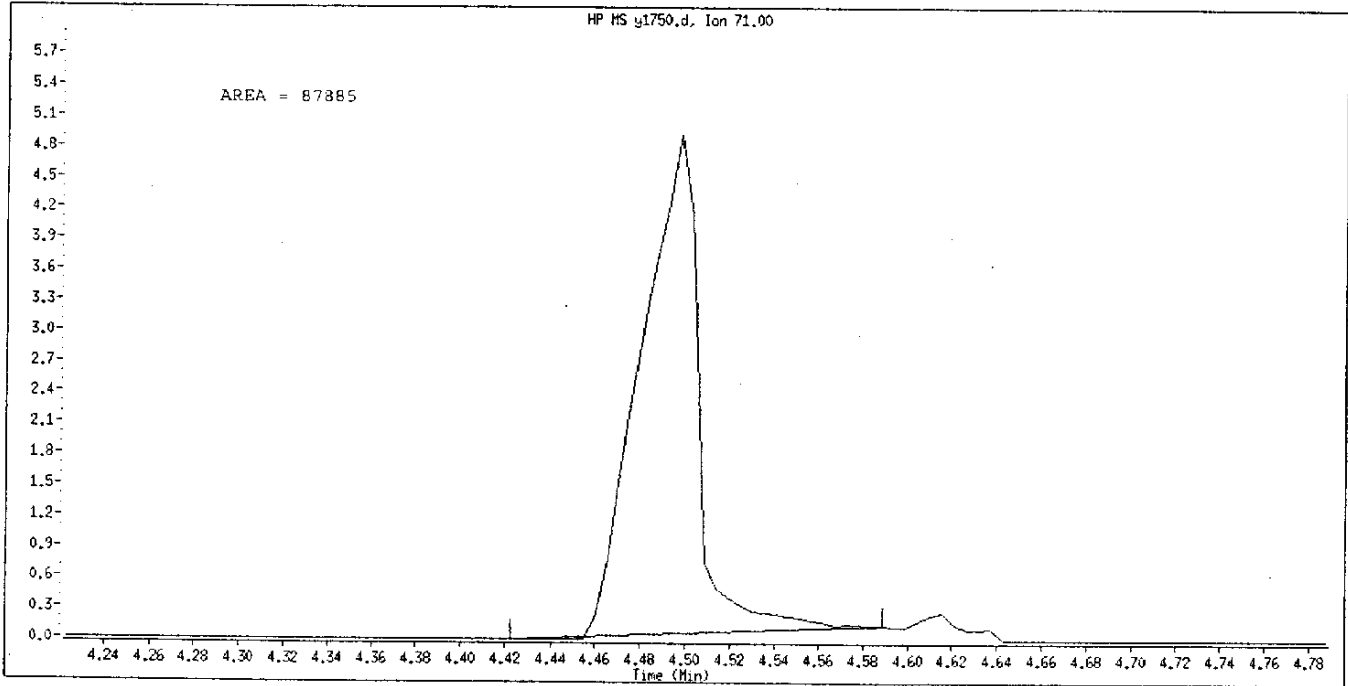




Data File Name: y1750.d  
Inj. Date and Time: 28-MAY-2004 08:26  
Instrument ID: Y.i  
Client ID: CUST0080  
Compound Name: Acrylamide  
CAS #: 79-06-1  
Report Date: 05/28/2004



Original Integration



Manual Integration

Manually Integrated By: kidd  
Manual Integration Reason: Peak Tailing or Fronting

mcw  
05-28-04

5/28/04  
LS

Report Date: 28-May-2004 09:39

### Calibration History

Method : /chem/Y.i/052804.b/8270C.m  
Start Cal Date: 06-MAY-2004 10:56  
End Cal Date : 27-MAY-2004 21:14

#### Initial Calibration

Injection Date	Sublist	Calibration File
Cal Level: 1 , Cal Amount: 5.00000		
27-MAY-2004 18:05	1-HSL	/chem/Y.i/052704.b/y1720.d
Cal Level: 2 , Cal Amount: 10.00000		
13-MAY-2004 18:48	3-REF	/chem/Y.i/051304.b/y1405.d
13-MAY-2004 15:15	2-AP9std	/chem/Y.i/051304.b/y1397.d
13-MAY-2004 11:44	4-CUST	/chem/Y.i/051304.b/y1389.d
27-MAY-2004 18:32	1-HSL	/chem/Y.i/052704.b/y1721.d
Cal Level: 3 , Cal Amount: 20.00000		
13-MAY-2004 19:15	3-REF	/chem/Y.i/051304.b/y1406.d
13-MAY-2004 15:41	2-AP9std	/chem/Y.i/051304.b/y1398.d
13-MAY-2004 12:10	4-CUST	/chem/Y.i/051304.b/y1390.d
27-MAY-2004 18:59	1-HSL	/chem/Y.i/052704.b/y1722.d
Cal Level: 4 , Cal Amount: 50.00000		
13-MAY-2004 19:41	3-REF	/chem/Y.i/051304.b/y1407.d
13-MAY-2004 16:08	2-AP9std	/chem/Y.i/051304.b/y1399.d
13-MAY-2004 12:36	4-CUST	/chem/Y.i/051304.b/y1391.d
27-MAY-2004 19:26	1-HSL	/chem/Y.i/052704.b/y1723.d
Cal Level: 5 , Cal Amount: 80.00000		
13-MAY-2004 18:21	3-REF	/chem/Y.i/051304.b/y1404.d
13-MAY-2004 14:48	2-AP9std	/chem/Y.i/051304.b/y1396.d
13-MAY-2004 11:18	4-CUST	/chem/Y.i/051304.b/y1388.d
27-MAY-2004 19:53	1-HSL	/chem/Y.i/052704.b/y1724.d
Cal Level: 6 , Cal Amount: 120.00000		
13-MAY-2004 20:08	3-REF	/chem/Y.i/051304.b/y1408.d
13-MAY-2004 16:35	2-AP9std	/chem/Y.i/051304.b/y1400.d
13-MAY-2004 13:03	4-CUST	/chem/Y.i/051304.b/y1392.d
27-MAY-2004 20:20	1-HSL	/chem/Y.i/052704.b/y1725.d
Cal Level: 7 , Cal Amount: 160.00000		

13-MAY-2004 20:35	3-REF	/chem/Y.i/051304.b/y1409.d
13-MAY-2004 17:01	2-AP9std	/chem/Y.i/051304.b/y1401.d
13-MAY-2004 13:29	4-CUST	/chem/Y.i/051304.b/y1393.d
27-MAY-2004 20:47	1-HSL	/chem/Y.i/052704.b/y1726.d

Cal Level: 8 , Cal Amount: 200.00000		
26-MAY-2004 17:20	10-HEX	/chem/Y.i/0526042.b/y1684.d
13-MAY-2004 21:01	3-REF	/chem/Y.i/051304.b/y1410.d
13-MAY-2004 17:28	2-AP9std	/chem/Y.i/051304.b/y1402.d
13-MAY-2004 13:55	4-CUST	/chem/Y.i/051304.b/y1394.d
27-MAY-2004 21:14	1-HSL	/chem/Y.i/052704.b/y1727.d

# Continuing Calibration

Ccal Level Mode: GLOBAL LEVEL 5

Ccal Level: 5 , Ccal Amount: 80.0000		
28-MAY-2004 06:38	1-HSL	/chem/Y.i/052804.b/y1746.d ✓
Ccal Level: 5 , Ccal Amount: 80.0000		
28-MAY-2004 08:26	4-CUST	/chem/Y.i/052804.b/y1750.d ✓
Ccal Level: 5 , Ccal Amount: 80.0000		
28-MAY-2004 07:05	2-AP9std	/chem/Y.i/052804.b/y1747.d ✓
Ccal Level: 5 , Ccal Amount: 80.0000		
28-MAY-2004 07:31	3-REF	/chem/Y.i/052804.b/y1748.d ✓

## GC/MS Continuing Calibration Review Checklist

STL Denver

Instrument ID and Date: Y-052904.6

Check Method Used: Analysis ☐ 625 ☒ 8270 ☒ Other SV H9/A9/CUST

☐ 524.2 ☐ 624 ☐ 8260B ☐ Other VOA

VOA Preparation ☐ 5mL ☐ 20mL ☐ 5035 Low ☐ 5035 High ☐ 5030 Low ☐ 5030 High

Review Items	Level 1		Level 2	Comments
	Yes	No	N/A	
<b>Continuing Calibration</b>				
1. BFB/DFTPP meets criteria?	✓			
2. ICAL date and instrument ID verified?	✓			
3. Do SPCC RRFs and CCC %Ds meet method criteria?	✓			
4. Does %D meet criteria for non-CCC compounds?	✓			Revised = 53.3% D
5. Isomeric pairs checked for correct peak assignment?	✓			
6. Standards traceability properly documented?	✓			
7. Manual integrations documented and checked?	✓			
8. Do the Internal Standards meet criteria for %D against ICAL?	✓			

1st Level Reviewer: R.T. OrrDate: 5/29/042nd Level Reviewer: MLVDate: 05-29-04

Date : 29-MAY-2004 09:50

Client ID: DFTPP

Instrument: Y.i

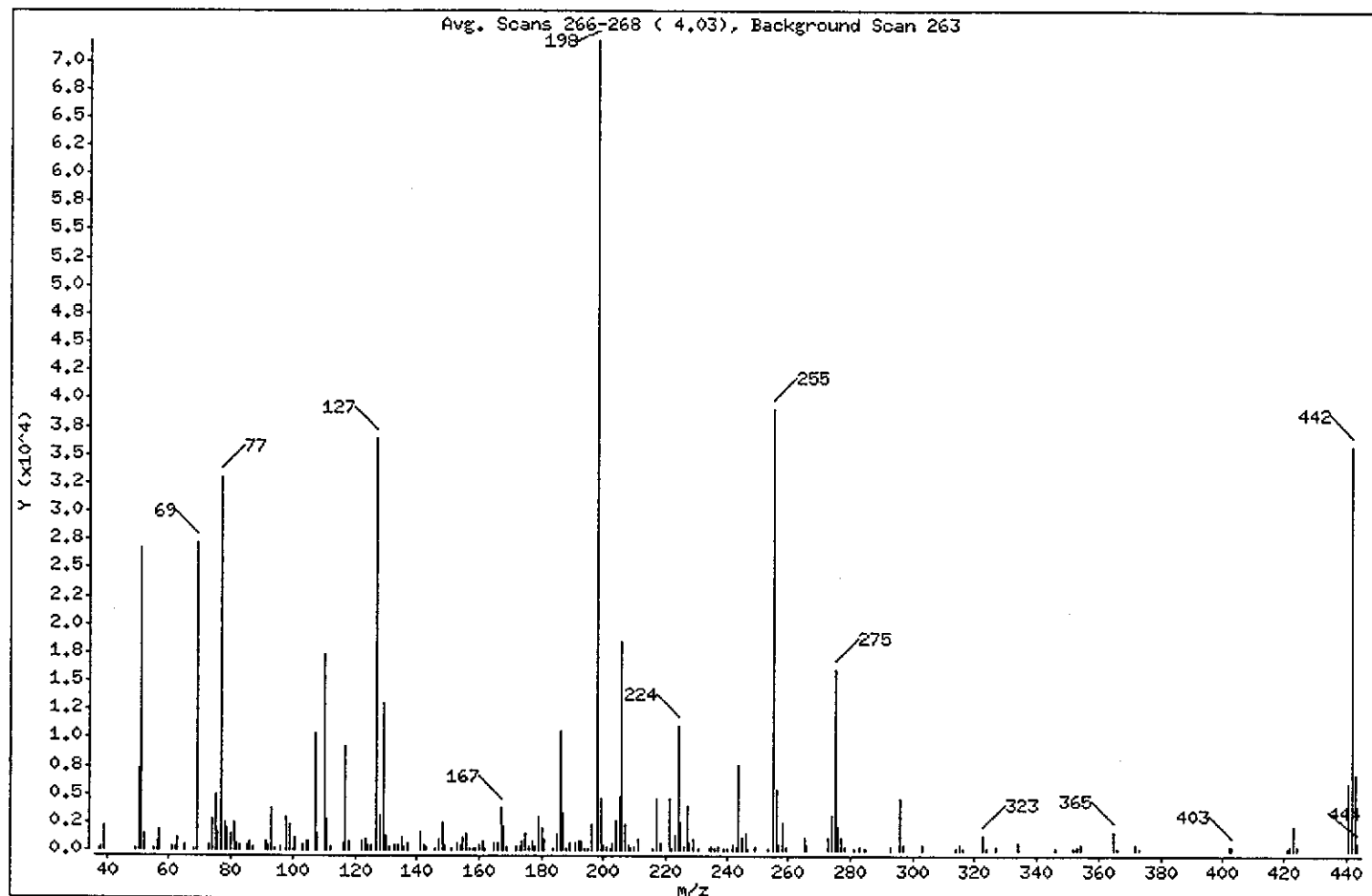
Sample Info: 25NGOC DFTPP,BNA1512,P041904 E041905

Operator: todear

Column phase: Rtx-5ms

Column diameter: 0.25

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 60.00% of mass 198	37.25
68	Less than 2.00% of mass 69	0.19 ( 0.50)
69	Mass 69 relative abundance	38.00
70	Less than 2.00% of mass 69	0.00 ( 0.00)
127	40.00 - 60.00% of mass 198	50.75
197	Less than 1.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	6.45
275	10.00 - 30.00% of mass 198	22.41
365	Greater than 1.00% of mass 198	2.29
441	Present, but less than mass 443	8.35
442	40.00 - 100.00% of mass 198	49.93
443	17.00 - 23.00% of mass 442	9.46 ( 18.95)

5/19/04  
LS

Date : 29-MAY-2004 09:50

Client ID: DFTPP

Instrument: Y.i

Sample Info: 25NGOC DFTPP,BNA1512,P041904 E041905

Operator: todear

Column phase: Rtx-5ms

Column diameter: 0.25

Data File: y1771.d

Spectrum: Avg. Scans 266-268 ( 4.03), Background Scan 263

Location of Maximum: 198.00

Number of points: 195

m/z	Y	m/z	Y	m/z	Y	m/z	Y
-----							
37.00	130	118.00	766	185.00	1510	247.00	128
38.00	318	122.00	754	186.00	10591	249.00	312
39.00	2222	123.00	1064	187.00	3254	253.00	100
49.00	130	124.00	501	188.00	240	255.00	39112
50.00	7231	125.00	520	189.00	697	256.00	5492
-----							
51.00	26720	127.00	36408	191.00	613	257.00	461
52.00	1529	128.00	3110	192.00	895	258.00	2444
55.00	109	129.00	13068	193.00	841	259.00	287
56.00	778	130.00	1397	194.00	113	265.00	1132
57.00	1859	131.00	272	195.00	128	266.00	420
-----							
61.00	369	133.00	442	196.00	2388	273.00	1200
62.00	332	134.00	473	198.00	71736	274.00	3063
63.00	1132	135.00	1227	199.00	4625	275.00	16078
65.00	562	136.00	359	200.00	432	276.00	2071
68.00	135	137.00	651	201.00	336	277.00	1184
-----							
69.00	27264	141.00	1681	202.00	109	278.00	261
73.00	474	142.00	555	203.00	616	281.00	108
74.00	2793	143.00	367	204.00	2684	283.00	269
75.00	4908	146.00	171	205.00	4849	285.00	110
76.00	1668	147.00	1033	206.00	18512	293.00	322
-----							
77.00	32960	148.00	2428	207.00	2252	296.00	4571
78.00	2430	149.00	515	208.00	545	297.00	486
79.00	2018	151.00	110	209.00	106	303.00	457
80.00	1476	153.00	664	210.00	346	314.00	102
81.00	2456	154.00	552	211.00	913	315.00	561
-----							
82.00	590	155.00	1106	216.00	165	316.00	228
83.00	514	156.00	1420	217.00	4656	323.00	1340
85.00	495	157.00	133	218.00	648	324.00	114
86.00	793	158.00	245	221.00	4577	327.00	280
87.00	278	159.00	128	222.00	123	334.00	664
-----							
91.00	786	160.00	521	223.00	1238	346.00	162
92.00	566	161.00	876	224.00	10975	352.00	142
93.00	3852	162.00	132	225.00	2466	353.00	266
94.00	175	165.00	704	226.00	275	354.00	431
96.00	317	166.00	588	227.00	3921	365.00	1644

Data File: /chem/Y.i/052904.b/y1771.d

Page 4

Date : 29-MAY-2004 09:50

Client ID: DFTPP

Instrument: Y.i

Sample Info: 25NGOC DFTPP,BNA1512,P041904 E041905

Operator: todear

Column phase: Rtx-5ms

Column diameter: 0.25

Data File: y1771.d

Spectrum: Avg. Scans 266-268 ( 4.03), Background Scan 263

Location of Maximum: 198.00

Number of points: 195

m/z	Y	m/z	Y	m/z	Y	m/z	Y
98.00	2894	167.00	3847	228.00	668	366.00	136
99.00	2245	168.00	2134	229.00	923	372.00	431
100.00	137	169.00	334	231.00	247	373.00	102
101.00	1139	172.00	286	234.00	120	402.00	291
103.00	511	173.00	366	235.00	322	403.00	332
104.00	856	174.00	784	236.00	109	421.00	136
105.00	833	175.00	1475	237.00	262	422.00	294
107.00	10438	176.00	334	239.00	101	423.00	2087
108.00	1535	177.00	906	240.00	101	424.00	406
110.00	17288	178.00	288	242.00	446	441.00	5991
111.00	2785	179.00	2983	243.00	408	442.00	35816
112.00	314	180.00	1959	244.00	7641	443.00	6787
116.00	586	181.00	917	245.00	1120	444.00	581
117.00	9256	184.00	138	246.00	1550		

Data File: /chem/Y.i/052904.b/y1771.d

Page 1

Date : 29-MAY-2004 09:50

Client ID: DFTPP

Instrument: Y.i

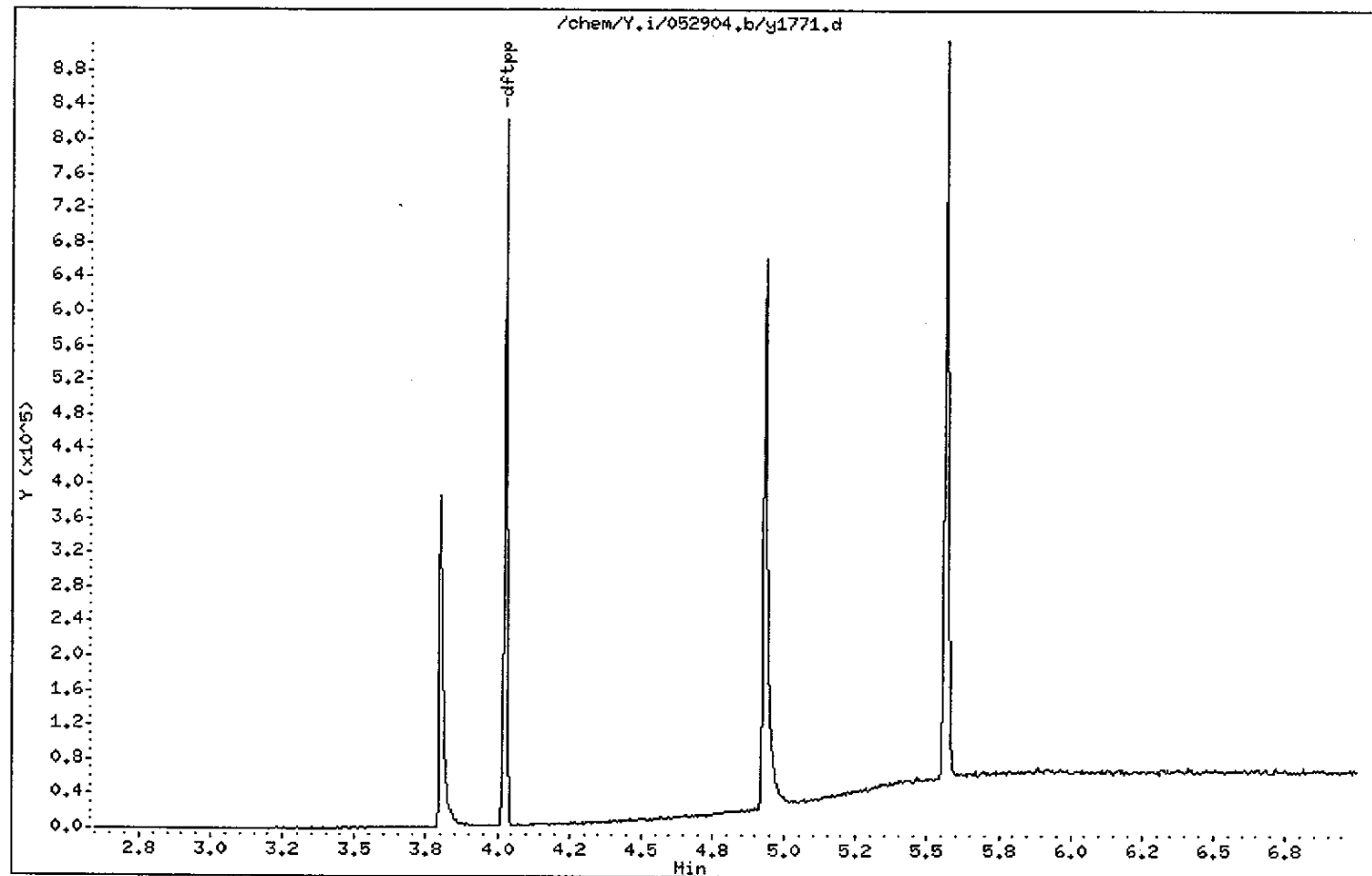
Sample Info: 25NGOC DFTPP,BNA1512,P041904 E041905

Operator: todear

Column phase: Rtx-5ms

Column diameter: 0.25

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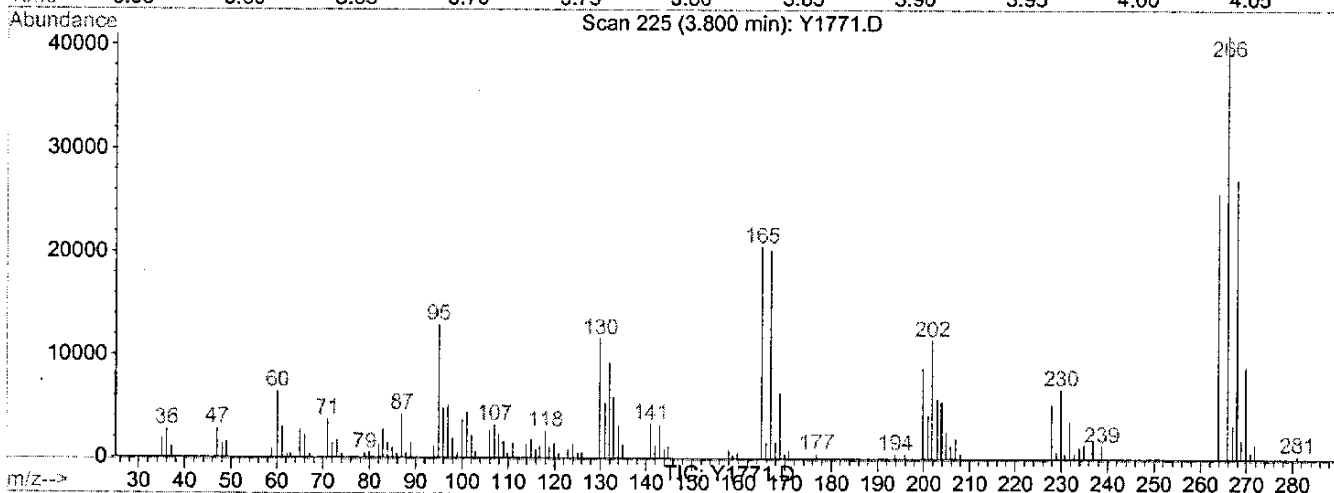
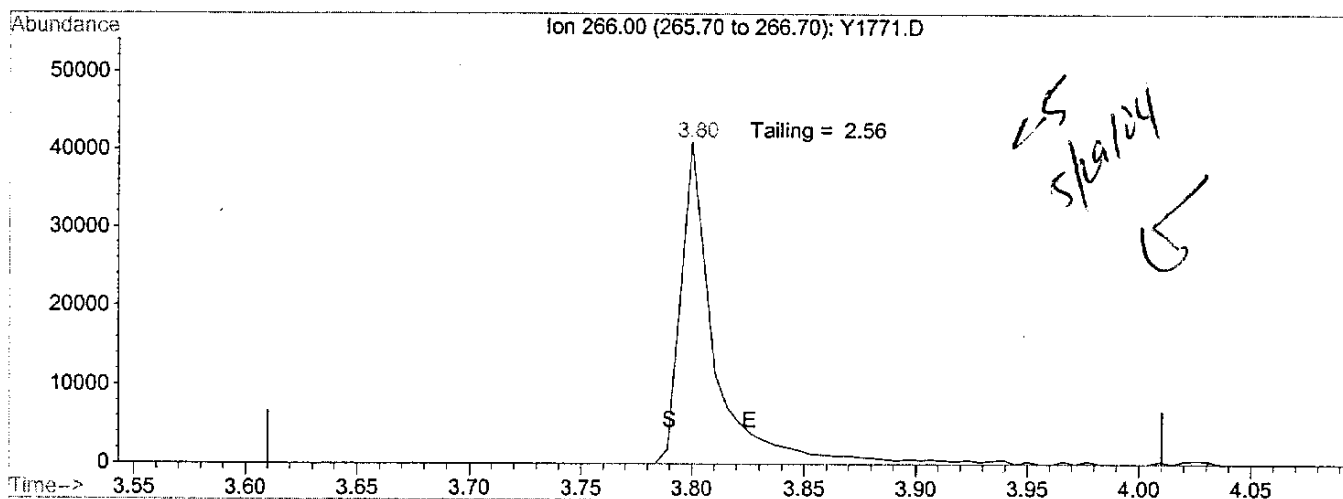


# Quantitation Report

Data File : C:\HPCHEM\1\DATA\052904.B\Y1771.D  
 Acq On : 29 May 2004 9:50 am  
 Sample : 25NGOC DFTPP,BNA1512,P041904 E041905  
 Misc :  
 Quant Time: May 29 12:55 19104

Vial: 1  
 Operator: todear  
 Inst : GC/MS Ins  
 Multiplr: 1.00  
 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\DFTPPB.M (RTE Integrator)  
 Title :  
 Last Update : Thu May 27 17:23:30 2004  
 Response via : Single Level Calibration



(1) Pentachlorophenol

3.80min 0.00ug/ml

response 43016

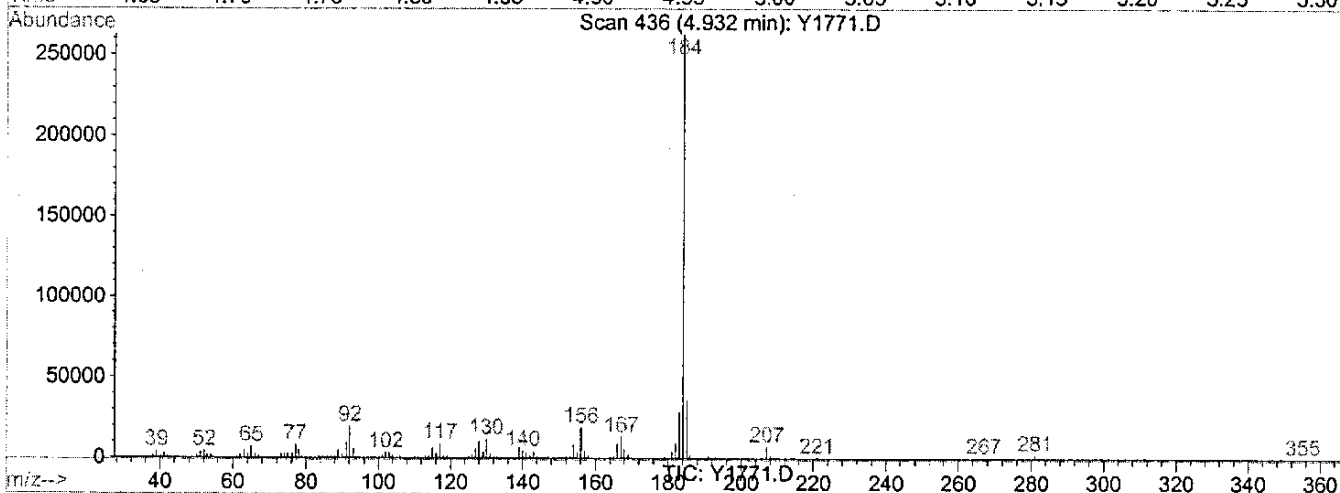
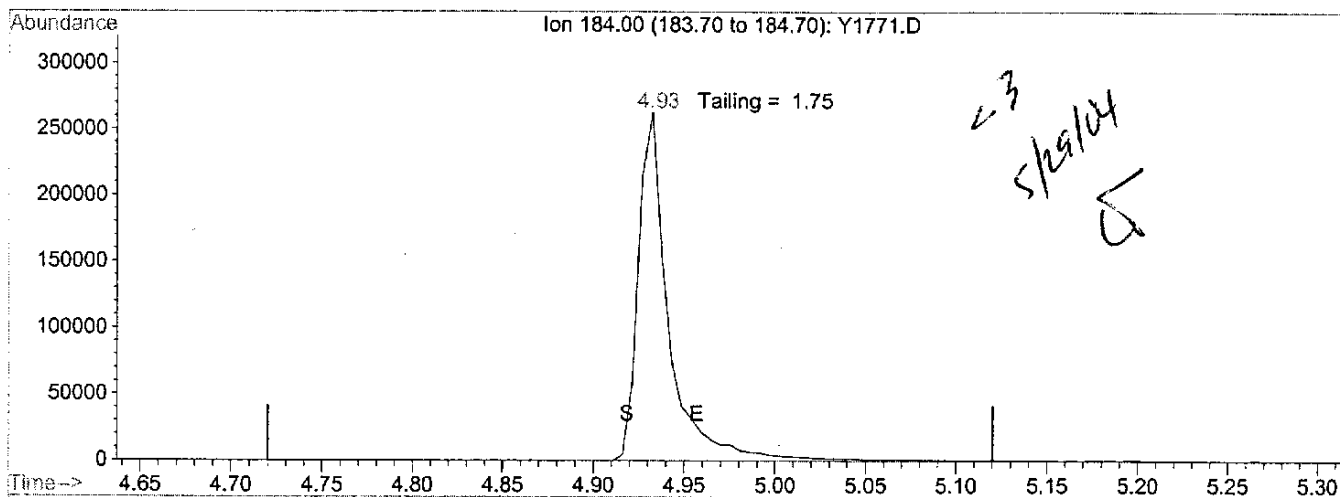
Ion	Exp%	Act%
266.00	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

# Quantitation Report

Data File : C:\HPCHEM\1\DATA\052904.B\Y1771.D  
 Acq On : 29 May 2004 9:50 am  
 Sample : 25NGOC DFTPP,BNA1512,P041904 E041905  
 Misc :  
 Quant Time: May 29 12:55 19104

Vial: 1  
 Operator: todear  
 Inst : GC/MS Ins  
 Multiplr: 1.00  
 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\DFTPPB.M (RTE Integrator)  
 Title :  
 Last Update : Thu May 27 17:23:30 2004  
 Response via : Single Level Calibration



(3) Benzidine

4.93min 0.00ug/ml

response 309431

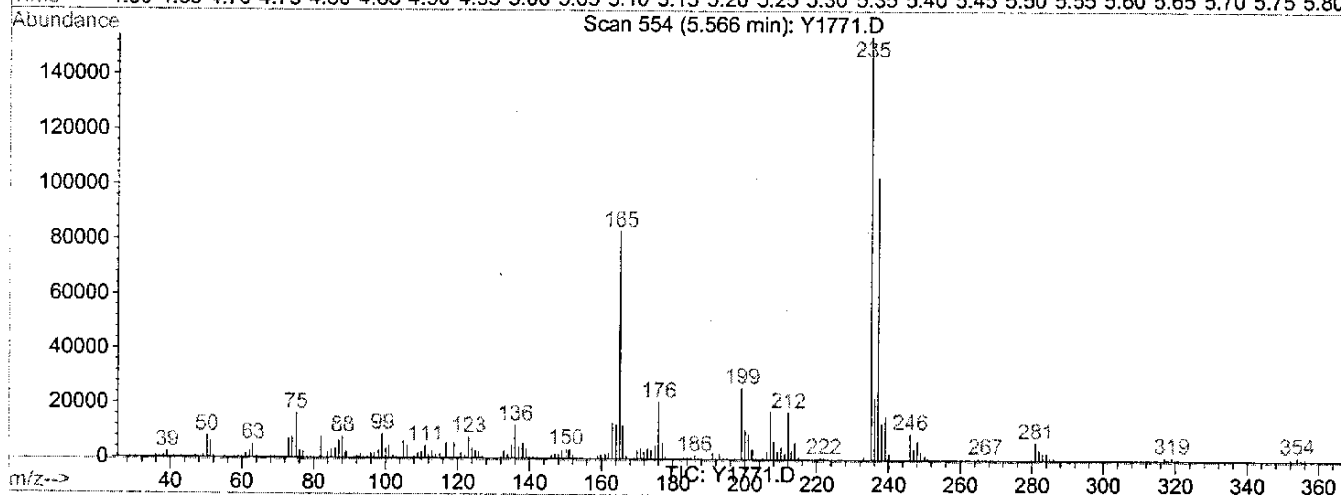
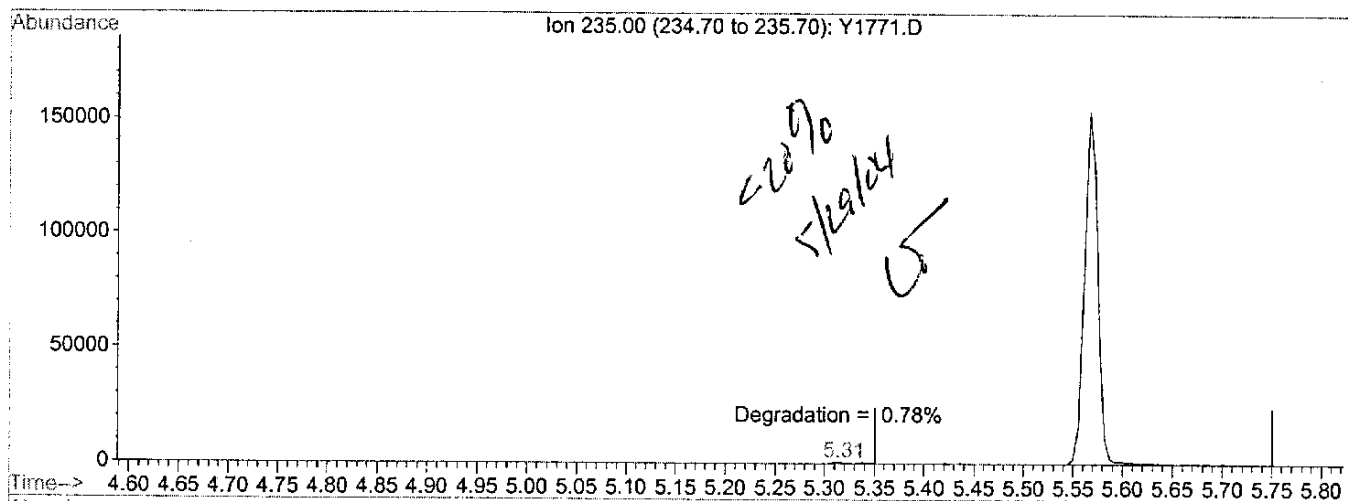
Ion	Exp%	Act%
184.00	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

# Quantitation Report

Data File : C:\HPCHEM\1\DATA\052904.B\Y1771.D  
 Acq On : 29 May 2004 9:50 am  
 Sample : 25NGOC DFTPP, BNA1512, P041904 E041905  
 Misc :  
 Quant Time: May 29 12:55 19104

Vial: 1  
 Operator: todear  
 Inst : GC/MS Ins  
 Multiplr: 1.00  
 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\DFTPPB.M (RTE Integrator)  
 Title :  
 Last Update : Thu May 27 17:23:30 2004  
 Response via : Single Level Calibration



(4) DDT (std)

5.57min 0.00ug/ml

response 144648

Ion	Exp%	Act%
235.00	100	100
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: Y.i  
 Lab File ID: y1772.d  
 Analysis Type: WATER

Injection Date: 29-MAY-2004 10:06  
 Lab Sample ID: HSL 0080  
 Method File: /chem/Y.i/052904.b/8270C.m

COMPOUND	RRF/CONC	RRF/CONC	CCAL RRF	MIN RRF	%D	MAX %D	CURVE TYPE
3 N-Nitrosodimethylamine	0.722078	0.721806	0.72181	0.01	0.0377	50.0	Average
2 Pyridine	1.13168	1.12897	1.1290	0.01	0.239	50.0	Average
89 2-Fluorophenol	1.20206	1.27953	1.2795	0.01	6.44	50.0	Average
59 Phenol-d5	1.48783	1.58144	1.5814	0.01	6.29	50.0	Average
9 Phenol	1.56569	1.67319	1.6732	0.01	6.86	20.0	Average
13 Aniline	80.0000	100.741	1.6753	0.01	25.9	50.0	Quadratic
168 Methyl Styrene	1.33773	1.44008	1.4401	0.01	7.65	50.0	Average
15 Bis(2-chloroethyl) ether	1.23028	1.22080	1.2208	0.01	0.770	50.0	Average
206 Decane	1.14948	1.20780	1.2078	0.01	5.07	50.0	Average
142 2-Chlorophenol-d4	1.30187	1.34993	1.3499	0.01	3.69	50.0	Average
9 2-Chlorophenol	1.31710	1.44027	1.4403	0.01	9.35	50.0	Average
17 1,3-Dichlorobenzene	1.43626	1.51758	1.5176	0.01	5.66	50.0	Average
9 1,4-Dichlorobenzene	1.46810	1.56383	1.5638	0.01	6.52	20.0	Average
20 Benzyl alcohol	0.820173	0.872134	0.87213	0.01	6.34	50.0	Average
143 1,2-Dichlorobenzene-d4	0.827423	0.880762	0.88076	0.01	6.45	50.0	Average
21 1,2-Dichlorobenzene	1.36621	1.48175	1.4818	0.01	8.46	50.0	Average
22 2-Methylphenol	1.13737	1.19269	1.1927	0.01	4.86	50.0	Average
23 2,2'-oxybis(1-chloropropane)	1.49952	1.58922	1.5892	0.01	5.98	50.0	Average
136 1H-Indene	2.19793	2.29871	2.2987	0.01	4.58	50.0	Average
25 4-Methylphenol	1.15687	1.27058	1.2706	0.01	9.83	50.0	Average
9 N-nitrosodi-n-propylamine	0.852662	0.928318	0.92832	0.05	8.87	50.0	Average
26 Acetophenone	1.65276	1.79979	1.7998	0.01	8.90	50.0	Average
30 Hexachloroethane	0.543885	0.563674	0.56367	0.01	3.64	50.0	Average
8 Nitrobenzene-d5	1.30974	1.37018	1.3702	0.01	4.61	50.0	Average
32 Nitrobenzene	1.30716	1.36811	1.3681	0.01	4.66	50.0	Average
34 Isophorone	0.573194	0.590669	0.59067	0.01	3.05	50.0	Average
35 2-Nitrophenol	0.177066	0.188687	0.18869	0.01	6.56	20.0	Average
36 2,4-Dimethylphenol	0.305255	0.327971	0.32797	0.01	7.44	50.0	Average
39 Bis(2-chloroethoxy)methane	0.349625	0.338606	0.33861	0.01	3.15	50.0	Average
38 Benzoic acid	0.214425	0.202996	0.20300	0.01	5.33	50.0	Average
40 2,4-Dichlorophenol	0.267049	0.282022	0.28202	0.01	5.61	20.0	Average
213 n-Dodecane	0.497604	0.502362	0.50236	0.01	0.956	50.0	Average
9 1,2,4-Trichlorobenzene	0.300576	0.318979	0.31898	0.01	6.12	50.0	Average
44 Naphthalene	0.946805	0.999148	0.99915	0.01	5.53	50.0	Average
45 4-Chloroaniline	0.399031	0.400300	0.40030	0.01	0.318	50.0	Average
48 Hexachlorobutadiene	0.167971	0.169209	0.16921	0.01	0.737	20.0	Average
205 Caprolactam	0.110580	0.110346	0.11034	0.01	0.212	50.0	Average
9 4-Chloro-3-methylphenol	0.274947	0.288397	0.28840	0.01	4.89	20.0	Average
53 2-Methylnaphthalene	0.628043	0.616294	0.61629	0.01	1.87	50.0	Average

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: Y.i  
Lab File ID: y1772.d  
Analysis Type: WATER

Injection Date: 29-MAY-2004 10:06  
Lab Sample ID: HSL 0080  
Method File: /chem/Y.i/052904.b/8270C.m

COMPOUND	RRF/CONC	RRF/CONC	CCAL RRF	MIN RRF	%D	MAX %D	CURVE TYPE
138 1-Methylnaphthalene	0.631283	0.619811	0.61981	0.01	1.82	50.0	Average
54 Hexachlorocyclopentadiene	0.315865	0.331700	0.33170	0.05	5.01	50.0	Average
57 2,4,6-Trichlorophenol	0.303664	0.338034	0.33803	0.01	11.3	20.0	Average
207 2,3-Dichlorobenzeneamine	0.564210	0.557833	0.55783	0.01	1.13	50.0	Average
58 2,4,5-Trichlorophenol	0.351148	0.370955	0.37095	0.01	5.64	50.0	Average
11 2-Fluorobiphenyl	1.14856	1.19854	1.1985	0.01	4.35	50.0	Average
210 Tetradecane	0.485131	0.500893	0.50089	0.01	3.25	50.0	Average
61 2-Chloronaphthalene	0.992112	1.01984	1.0198	0.01	2.79	50.0	Average
63 2-Nitroaniline	0.286322	0.294407	0.29441	0.01	2.82	50.0	Average
65 Dimethyl phthalate	1.15025	1.11079	1.1108	0.01	3.43	50.0	Average
67 2,6-Dinitrotoluene	0.248891	0.260835	0.26084	0.01	4.80	50.0	Average
68 Acenaphthylene	1.59798	1.64801	1.6480	0.01	3.13	50.0	Average
69 3-Nitroaniline	0.284320	0.297048	0.29705	0.01	4.48	50.0	Average
9 Acenaphthene	1.04535	1.01210	1.0121	0.01	3.18	20.0	Average
72 2,4-Dinitrophenol	80.0000	74.7773	0.15724	0.05	6.53	50.0	WtLinear
9 4-Nitrophenol	0.147637	0.151981	0.15198	0.05	2.94	50.0	Average
9 2,4-Dinitrotoluene	0.313522	0.337448	0.33745	0.01	7.63	50.0	Average
76 Dibenzofuran	1.38625	1.36347	1.3635	0.01	1.64	50.0	Average
209 Hexadecane	0.622409	0.624914	0.62491	0.01	0.402	50.0	Average
80 Diethyl phthalate	1.02567	1.08591	1.0859	0.01	5.87	50.0	Average
84 4-Chlorophenyl phenyl ether	0.559783	0.567600	0.56760	0.01	1.40	50.0	Average
82 Fluorene	1.18366	1.15903	1.1590	0.01	2.08	50.0	Average
85 4-Nitroaniline	0.247746	0.266253	0.26625	0.01	7.47	50.0	Average
86 4,6-Dinitro-2-methylphenol	0.198194	0.215267	0.21527	0.01	8.61	50.0	Average
87 N-nitrosodiphenylamine	0.779784	0.775808	0.77581	0.01	0.510	20.0	Average
88 Azobenzene	1.00856	1.03597	1.0360	0.01	2.72	50.0	Average
114 2,4,6-Tribromophenol	0.0739819	0.0724391	0.072439	0.01	2.08	50.0	Average
94 4-Bromophenyl phenyl ether	0.181662	0.182384	0.18238	0.01	0.397	50.0	Average
95 Hexachlorobenzene	0.166872	0.171962	0.17196	0.01	3.05	50.0	Average
204 Atrazine	0.0155372	0.0229355	0.022936	0.01	47.6	50.0	Average
208 n-Octadecane	0.171378	0.166975	0.16698	0.01	2.57	50.0	Average
9 Pentachlorophenol	0.0898496	0.0966624	0.096662	0.01	7.58	20.0	Average
104 Phenanthrene	0.933530	0.913548	0.91355	0.01	2.14	50.0	Average
105 Anthracene	0.938323	0.942244	0.94224	0.01	0.418	50.0	Average
134 Carbazole	0.762295	0.785592	0.78559	0.01	3.06	50.0	Average
202 Alachlor	0.110992	0.122302	0.12230	0.01	10.2	50.0	Average
107 Di-n-butyl phthalate	0.888349	0.957288	0.95729	0.01	7.76	50.0	Average
211 n-Eicosane	0.393815	0.418848	0.41885	0.01	6.36	50.0	Average
111 Fluoranthene	0.901062	0.842464	0.84246	0.01	6.50	20.0	Average

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: Y.i  
Lab File ID: y1772.d  
Analysis Type: WATER

Injection Date: 29-MAY-2004 10:06  
Lab Sample ID: HSL 0080  
Method File: /chem/Y.i/052904.b/8270C.m

COMPOUND	RRF/CONC	RRF/CONC	CCAL RRF	MIN RRF	%D	MAX %D	CURVE TYPE
212 n-docosane	0.306346	0.332753	0.33275	0.01	8.62	50.0	Average
112 Benzidine	80.0000	179.357	0.33547	0.01	124	50.0	WtLinear
9 Pyrene	1.32443	1.27798	1.2780	0.01	3.51	50.0	Average
31 Terphenyl-d14	0.864797	0.856198	0.85620	0.01	0.994	50.0	Average
117 Butyl benzyl phthalate	0.466871	0.505329	0.50533	0.01	8.24	50.0	Average
123 Bis(2-ethylhexyl) phthalate	0.603292	0.687485	0.68748	0.01	14.0	50.0	Average
119 3 3'-Dichlorobenzidine	0.355755	0.335117	0.33512	0.01	5.80	50.0	Average
120 Benzo(a)anthracene	1.08398	0.994254	0.99425	0.01	8.28	50.0	Average
122 Chrysene	1.02670	0.963176	0.96318	0.01	6.19	50.0	Average
124 Di-n-octyl phthalate	0.980636	1.05750	1.0575	0.01	7.84	20.0	Average
126 Benzo(b)fluoranthene	1.15637	1.22176	1.2218	0.01	5.65	50.0	Average
127 Benzo(k)fluoranthene	1.24463	1.21129	1.2113	0.01	2.68	50.0	Average
128 Benzo(a)pyrene	1.04858	1.07335	1.0734	0.01	2.36	20.0	Average
132 Dibenzo(a,h)anthracene	0.920516	0.933150	0.93315	0.01	1.37	50.0	Average
131 Indeno(1,2,3-cd)pyrene	1.01641	1.09700	1.0970	0.01	7.93	50.0	Average
133 Benzo(g,h,i)perylene	0.872512	0.924250	0.92425	0.01	5.93	50.0	Average

MC

5/29/04  
65

STL-Denver

BNA ANALYSIS QUANTITATION REPORT

Data file : /chem/Y.i/052904.b/y1772.d  
Lab Smp Id: HSL 0080 Client Smp ID: HSL\_0080  
Inj Date : 29-MAY-2004 10:06  
Operator : todear Inst ID: Y.i  
Smp Info : HSL\_0080,BNA1509,P:052804,E:053104  
Misc Info :  
Comment : SOP#CORP-MS-0001DEN, revision1.1  
Method : /chem/Y.i/052904.b/8270C.m  
Meth Date : 29-May-2004 10:34 todear Quant Type: ISTD  
Cal Date : 26-MAY-2004 17:20 Cal File: y1684.d  
Als bottle: 1 Continuing Calibration Sample  
Dil Factor: 1.00000 Compound Sublist: 1-HSL.sub  
Integrator: HP RTE  
Target Version: 3.50  
Processing Host: chemsv03

Concentration Formula: Amt \* DF \* Vf/Vs \* CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vf	1000.00000	final volume at end of extraction (uL)
Vs	1000.00000	volume of sample extracted (mL)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG				AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/ml)
*****	----	==	=====	=====	-----	-----
* 22 1,4-Dichlorobenzene-d4	152	5.807	5.807	(1.000)	214092	40.0000
* 49 Naphthalene-d8	136	7.036	7.036	(1.000)	868321	40.0000
* 83 Acenaphthene-d10	164	8.749	8.749	(1.000)	513406	40.0000
* 117 Phenanthrene-d10	188	10.010	10.010	(1.000)	879313	40.0000
* 142 Chrysene-d12	240	12.168	12.168	(1.000)	575328	40.0000
* 151 Perylene-d12	264	13.585	13.585	(1.000)	406962	40.0000
\$ 36 Nitrobenzene-d5	82	6.344	6.344	(1.092)	586688	80.0000 83.6913
\$ 70 2-Fluorobiphenyl	172	8.083	8.083	(0.924)	1230674	80.0000 83.4813
\$ 133 Terphenyl-d14	244	11.250	11.250	(0.925)	985189	80.0000 79.2045
\$ 10 2-Fluorophenol	112	4.605	4.605	(0.793)	821814	120.000 127.734
\$ 14 Phenol-d5	99	5.448	5.448	(0.938)	1015724	120.000 127.550
\$ 103 2,4,6-Tribromophenol	330	9.441	9.441	(0.943)	191090	120.000 117.498
\$ 163 1,2-Dichlorobenzene-d4	152	5.957	5.957	(1.026)	377128	80.0000 85.1571
\$ 162 2-Chlorophenol-d4	132	5.603	5.603	(0.965)	867026	120.000 124.429
5 Pyridine	79	3.392	3.392	(0.584)	483408	80.0000 79.8083

Compounds	QUANT SIG					AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)
=====	=====	==	=====	=====	=====	=====	=====
4 N-Nitrosodimethylamine	74	3.338	3.338	(0.575)	309066	80.0000	79.9699
16 Aniline	93	5.512	5.512	(0.949)	717345	80.0000	100.741
15 Phenol	94	5.464	5.464	(0.941)	716434	80.0000	85.4929
18 Bis(2-chloroethyl) ether	93	5.544	5.544	(0.955)	522725	80.0000	79.3830
20 2-Chlorophenol	128	5.614	5.614	(0.967)	616701	80.0000	87.4813
21 1,3-Dichlorobenzene	146	5.754	5.754	(0.991)	649803	80.0000	84.5296
23 1,4-Dichlorobenzene	146	5.823	5.823	(1.003)	669606	80.0000	85.2161
24 Benzyl alcohol	108	5.936	5.936	(1.022)	373434	80.0000	85.0684
25 1,2-Dichlorobenzene	146	5.968	5.968	(1.028)	634462	80.0000	86.7655
26 2-Methylphenol	108	6.022	6.022	(1.037)	510691	80.0000	83.8913
27 1H-Indene	116	6.049	6.049	(1.042)	984270	80.0000	83.6682
28 2,2'-oxybis(1-chloropropane)	45	6.033	6.033	(1.039)	680481	80.0000	84.7858
29 4-Methylphenol	108	6.161	6.161	(1.061)	544044	80.0000	87.8633
30 N-nitrosodi-n-propylamine	70	6.172	6.172	(1.063)	397491	80.0000	87.0983
32 Acetophenone	105	6.188	6.188	(1.066)	770643	80.0000	87.1170
33 Hexachloroethane	117	6.290	6.290	(1.083)	241356	80.0000	82.9107
37 Nitrobenzene	77	6.360	6.360	(1.095)	585804	80.0000	83.7301
40 Isophorone	82	6.580	6.580	(0.935)	1025781	80.0000	82.4390
41 2-Nitrophenol	139	6.666	6.666	(0.947)	327682	80.0000	85.2502
42 2,4-Dimethylphenol	107	6.671	6.671	(0.948)	569568	80.0000	85.9532
43 Bis(2-chloroethoxy)methane	93	6.763	6.763	(0.961)	588038	80.0000	77.4788
45 Benzoic acid	122	6.790	6.790	(0.965)	352531	80.0000	75.7360
46 2,4-Dichlorophenol	162	6.891	6.891	(0.979)	489772	80.0000	84.4855
47 1,2,4-Trichlorobenzene	180	6.972	6.972	(0.991)	553952	80.0000	84.8981
50 Naphthalene	128	7.058	7.058	(1.003)	1735163	80.0000	84.4227
51 4-Chloroaniline	127	7.112	7.112	(1.011)	695177	80.0000	80.2543
52 Hexachlorobutadiene	225	7.149	7.149	(1.016)	293856	80.0000	80.5896
59 4-Chloro-3-methylphenol	107	7.568	7.568	(1.076)	500842	80.0000	83.9135
62 2-Methylnaphthalene	142	7.734	7.734	(1.099)	1070282	80.0000	78.5034
64 1-Methylnaphthalene	142	7.836	7.836	(1.114)	1076390	80.0000	78.5462
63 Hexachlorocyclopentadiene	237	7.874	7.874	(0.900)	340594	80.0000	84.0106
67 2,4,6-Trichlorophenol	196	8.013	8.013	(0.916)	347097	80.0000	89.0545
68 2,4,5-Trichlorophenol	196	8.056	8.056	(0.921)	380901	80.0000	84.5125
71 2-Chloronaphthalene	162	8.228	8.228	(0.940)	1047189	80.0000	82.2363
74 2-Nitroaniline	65	8.335	8.335	(0.953)	302301	80.0000	82.2590
76 Dimethyl phthalate	163	8.464	8.464	(0.967)	1140573	80.0000	77.2558
79 2,6-Dinitrotoluene	165	8.545	8.545	(0.977)	267829	80.0000	83.8393
81 Acenaphthylene	152	8.625	8.625	(0.986)	1692197	80.0000	82.5046
82 3-Nitroaniline	138	8.717	8.717	(0.996)	305013	80.0000	83.5813
84 Acenaphthene	153	8.776	8.776	(1.003)	1039242	80.0000	77.4555
85 2,4-Dinitrophenol	184	8.808	8.808	(1.007)	161456	80.0000	74.7773
86 4-Nitrophenol	109	8.856	8.856	(1.012)	156056	80.0000	82.3537
87 2,4-Dinitrotoluene	165	8.915	8.915	(1.019)	346496	80.0000	86.1052
88 Dibenzofuran	168	8.931	8.931	(1.021)	1400031	80.0000	78.6857
93 Diethyl phthalate	149	9.087	9.087	(1.039)	1115025	80.0000	84.6986
95 4-Chlorophenyl phenyl ether	204	9.205	9.205	(1.052)	582818	80.0000	81.1170
96 Fluorene	166	9.232	9.232	(1.055)	1190102	80.0000	78.3350



Compounds	QUANT SIG			RESPONSE	AMOUNTS	
	MASS	RT	EXP RT REL RT		CAL-AMT (ug/ml)	ON-COL (ug/ml)
=====	====	==	=====	=====	=====	=====
97 4-Nitroaniline	138	9.269	9.269 (1.060)	273392	80.0000	85.9760
99 4,6-Dinitro-2-methylphenol	198	9.269	9.269 (1.060)	221039	80.0000	86.8915
101 N-nitrosodiphenylamine	169	9.312	9.312 (1.064)	796609	80.0000	79.5921
102 Azobenzene	77	9.345	9.345 (1.068)	1063750	80.0000	82.1744
108 4-Bromophenyl phenyl ether	248	9.618	9.618 (0.961)	320746	80.0000	80.3181
110 Hexachlorobenzene	284	9.688	9.688 (0.968)	302416	80.0000	82.4401
113 Pentachlorophenol	266	9.849	9.849 (0.984)	169993	80.0000	86.0659
118 Phenanthrene	178	10.032	10.032 (1.002)	1606589	80.0000	78.2876
122 Anthracene	178	10.075	10.075 (1.006)	1657055	80.0000	80.3343
123 Carbazole	167	10.203	10.203 (1.019)	1381563	80.0000	82.4449
125 Di-n-butyl phthalate	149	10.391	10.391 (1.038)	1683511	80.0000	86.2082
130 Fluoranthene	202	10.982	10.982 (1.097)	1481579	80.0000	74.7975
131 Benzidine	184	11.078	11.078 (0.910)	386015	80.0000	179.357
132 Pyrene	202	11.175	11.175 (0.918)	1470514	80.0000	77.1940
137 Butyl benzyl phthalate	149	11.599	11.599 (0.953)	581460	80.0000	86.5899
140 3,3'-Dichlorobenzidine	252	12.109	12.109 (0.995)	385604	80.0000	75.3590
141 Benzo(a)anthracene	228	12.152	12.152 (0.999)	1144044	80.0000	73.3778
144 Chrysene	228	12.189	12.189 (1.002)	1108284	80.0000	75.0502
143 Bis(2-ethylhexyl) phthalate	149	12.018	12.018 (0.988)	791059	80.0000	91.1645
146 Di-n-octyl phthalate	149	12.549	12.549 (1.031)	1216825	80.0000	86.2710
147 Benzo(b)fluoranthene	252	13.140	13.140 (0.967)	994421	80.0000	84.5236
148 Benzo(k)fluoranthene	252	13.172	13.172 (0.970)	985897	80.0000	77.8569
150 Benzo(a)pyrene	252	13.521	13.521 (0.995)	873629	80.0000	81.8900
155 Indeno(1,2,3-cd)pyrene	276	15.072	15.072 (1.109)	892876	80.0000	86.3434
156 Dibenz(a,h)anthracene	278	15.067	15.067 (1.109)	759513	80.0000	81.0979
157 Benzo(g,h,i)perylene	276	15.544	15.544 (1.144)	752269	80.0000	84.7438
168 Methyl Styrene	118	5.528	5.528 (0.952)	616620	80.0000	86.1207
202 Alachlor	188	10.252	10.252 (1.024)	215084	80.0000	88.1517
204 Atrazine	200	9.731	9.731 (0.972)	40335	80.0000	118.093
205 Caprolactam	55	7.498	7.498 (1.066)	191631	80.0000	79.8304
207 2,3-Dichlorobenzeneamine	161	8.024	8.024 (0.917)	572790	80.0000	79.0959
206 Decane	43	5.587	5.587 (0.962)	517161	80.0000	84.0588
213 n-Dodecane	43	6.945	6.945 (0.794)	515831	80.0000	80.7649
210 Tetradecane	43	8.105	8.105 (0.926)	514323	80.0000	82.5992
209 Hexadecane	57	9.049	9.049 (1.034)	641669	80.0000	80.3219
208 n-Octadecane	85	9.801	9.801 (0.979)	293647	80.0000	77.9446
211 n-Eicosane	43	10.450	10.450 (1.194)	430078	80.0000	85.0852
212 n-docosane	43	11.041	11.041 (1.262)	341675	80.0000	86.8962

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INTERNAL STANDARD COMPOUNDS  
AREA AND RT SUMMARY

Instrument ID: Y.i  
Lab File ID: y1772.d  
Lab Smp Id: HSL 0080  
Analysis Type: SV  
Quant Type: ISTD  
Operator: todear  
Method File: /chem/Y.i/052904.b/8270C.m  
Misc Info:

Calibration Date: 29-MAY-2004  
Calibration Time: 10:06  
Client Smp ID: HSL\_0080  
Level: LOW  
Sample Type: WATER

Test Mode:

Use Last Continuing Calibrator.

COMPOUND =====	STANDARD =====	AREA LIMIT		SAMPLE =====	%DIFF =====
		LOWER =====	UPPER =====		
22 1,4-Dichlorobenze	214092	107046	428184	214092	0.00
49 Naphthalene-d8	868321	434160	1736642	868321	0.00
83 Acenaphthene-d10	513406	256703	1026812	513406	0.00
117 Phenanthrene-d10	879313	439656	1758626	879313	0.00
142 Chrysene-d12	575328	287664	1150656	575328	0.00
151 Perylene-d12	406962	203481	813924	406962	0.00

COMPOUND =====	STANDARD =====	RT LIMIT		SAMPLE =====	%DIFF =====
		LOWER =====	UPPER =====		
22 1,4-Dichlorobenze	5.81	5.31	6.31	5.81	0.00
49 Naphthalene-d8	7.04	6.54	7.54	7.04	0.00
83 Acenaphthene-d10	8.75	8.25	9.25	8.75	0.00
117 Phenanthrene-d10	10.01	9.51	10.51	10.01	0.00
142 Chrysene-d12	12.17	11.67	12.67	12.17	0.00
151 Perylene-d12	13.59	13.09	14.09	13.59	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.

Internal Standard  
Check Report

Instrument ID: Y.i  
Lab File ID: y1772.d  
Analysis Type: WATER

Injection Date: 29-MAY-2004 10:06  
Lab Sample ID: HSL\_0080  
Method File: /chem/Y.i/052904.b/8270C.m

INTERNAL STANDARD	ICAL AREA	SAMP AREA	ICAL RT	SAMP RT	%R
-----	-----	-----	-----	-----	-----
1,4-Dichlorobenzene-d4	162127	214092	5.818	5.807	132.1
Naphthalene-d8	630966	868321	7.047	7.036	137.6
Acenaphthene-d10	368193	513406	8.759	8.749	139.4
Phenanthrene-d10	591673	879313	10.021	10.010	148.6
Chrysene-d12	385856	575328	12.162	12.168	149.1
Perylene-d12	295607	406962	13.590	13.585	137.7

Data File: /chem/Y.i/052904.b/y1772.d

Date: 29-MAY-2004 10:06

Client ID: HSL\_0080

Sample Info: HSL\_0080,BNA1509,P:052804,E:053104

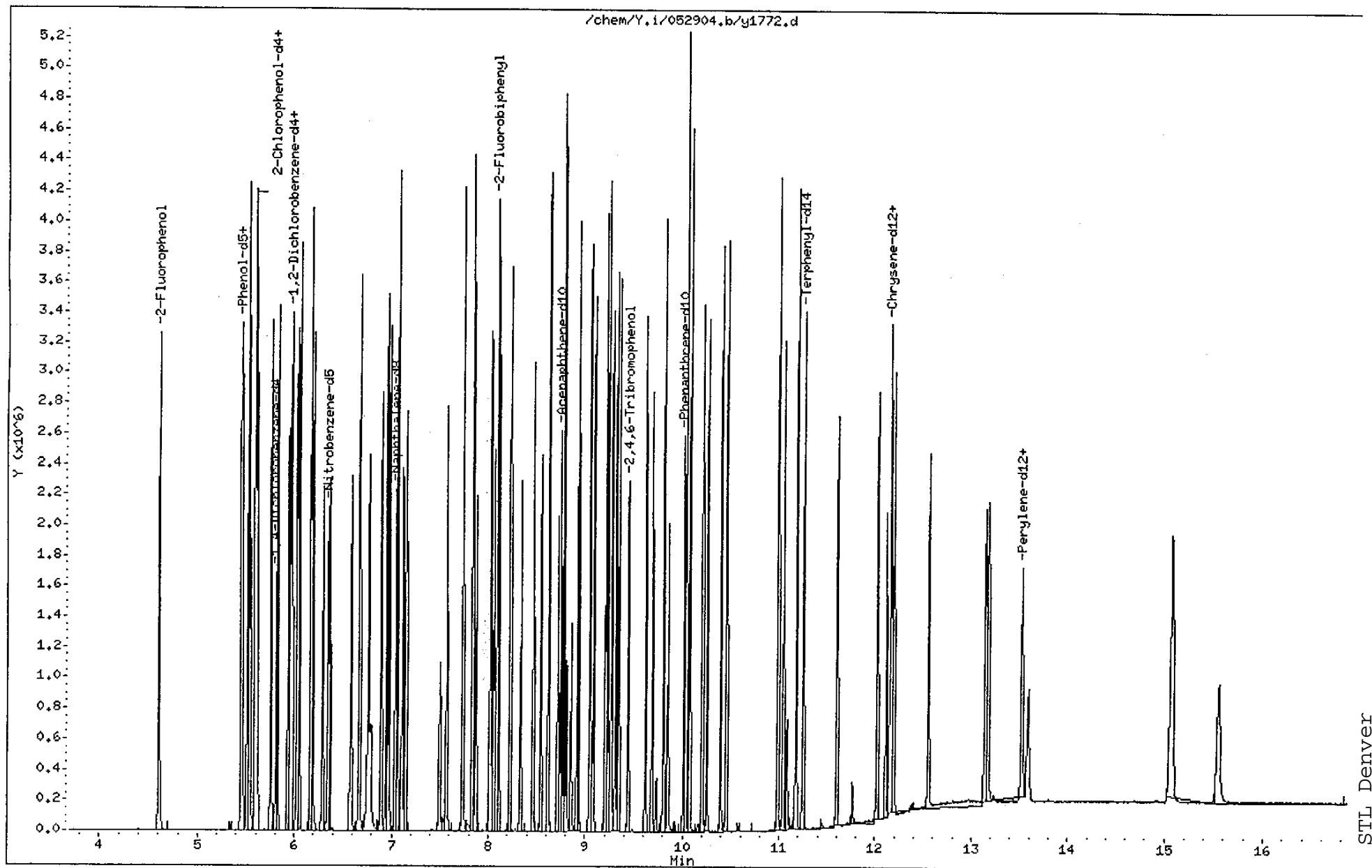
Volume Injected (uL): 0.5

Column phase: Rtx-5ms 30m 0.5um

Instrument: Y.i

Operator: todear

Column diameter: 0.25



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CONTINUING CALIBRATION COMPOUNDS

Instrument ID: Y.i Injection Date: 29-MAY-2004 10:32  
Lab File ID: y1773.d Init. Cal. Date(s): 06-MAY-2004 27-MAY-2004  
Analysis Type: WATER Init. Cal. Times: 10:56 21:14  
Lab Sample ID: AP9 0080 Quant Type: ISTD  
Method: /chem/Y.i/052904.b/8270C.m

COMPOUND	RRF / AMOUNT	RF80	CCAL RRF80	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
7 2-Picoline	1.15597	1.32439	1.32439	0.010	14.6	50.0	Averaged
8 N-Nitrosomethylethylamine	0.54446	0.57472	0.57472	0.010	5.6	50.0	Averaged
9 Methyl methanesulfonate	0.32891	0.36441	0.36441	0.010	10.8	50.0	Averaged
11 N-Nitrosodiethylamine	0.53931	0.59717	0.59717	0.010	10.7	50.0	Averaged
13 Ethyl methanesulfonate	0.81951	0.90162	0.90162	0.010	10.0	50.0	Averaged
19 Pentachloroethane	0.39183	0.47442	0.47442	0.010	21.1	50.0	Averaged
31 N-Nitrosopyrrolidine	0.55645	0.66252	0.66252	0.010	19.1	50.0	Averaged
34 N-Nitrosomorpholine	0.23800	0.28256	0.28256	0.010	18.7	50.0	Averaged
35 o-Toluidine	1.70563	2.05384	2.05384	0.010	20.4	50.0	Averaged
39 N-Nitrosopiperidine	0.14783	0.16256	0.16256	0.010	10.0	50.0	Averaged
44 O,O,O-Triethyl phosphorothi	0.16265	0.18525	0.18525	0.010	13.9	50.0	Averaged
48 a,a-Dimethylphenethylamine	0.69047	0.67463	0.67463	0.010	-2.3	50.0	Averaged
53 2,6-Dichlorophenol	0.24908	0.28208	0.28208	0.010	13.2	50.0	Averaged
54 Hexachloropropene	0.17516	0.20531	0.20531	0.010	17.2	50.0	Averaged
57 N-Nitrosodi-n-butylamine	0.18668	0.21525	0.21525	0.010	15.3	50.0	Averaged
58 p-Phenylenediamine	0.27437	0.28181	0.28181	0.010	2.7	50.0	Averaged
61 Safrole	0.24115	0.27487	0.27487	0.010	14.0	50.0	Averaged
65 1,2,4,5-Tetrachlorobenzene	0.28169	0.31236	0.31236	0.010	10.9	50.0	Averaged
66 Isosafrole (#1)	0.30080	0.31004	0.31004	0.010	3.1	50.0	Averaged
72 Isosafrole (#2)	0.22894	0.29281	0.29281	0.010	27.9	50.0	Averaged
73 1-Chloronaphthalene	0.92251	1.06153	1.06153	0.010	15.1	50.0	Averaged
75 1,4-Naphthoquinone	0.21188	0.23044	0.23044	0.010	8.8	50.0	Averaged
78 1,4-Dinitrobenzene	0.15106	0.18586	0.18586	0.010	23.0	50.0	Averaged
80 1,3-Dinitrobenzene	0.17968	0.20687	0.20687	0.010	15.1	50.0	Averaged
89 Pentachlorobenzene	0.40686	0.45672	0.45672	0.010	12.3	50.0	Averaged
90 1-Naphthylamine	102	80.00000	1.10868	0.010	28.0	50.0	Quadratic
91 2,3,4,6-Tetrachlorophenol	0.27400	0.31932	0.31932	0.010	16.5	50.0	Averaged
92 2-Naphthylamine	0.97841	1.11647	1.11647	0.010	14.1	50.0	Averaged
98 Thionazin	0.20466	0.25397	0.25397	0.010	24.1	50.0	Averaged
100 5-Nitro-o-toluidine	0.29459	0.32949	0.32949	0.010	11.8	50.0	Averaged
182 Diphenylamine	100	80.00000	1.05003	0.010	24.7	50.0	Quadratic
104 Sulfotepp	0.07771	0.10951	0.10951	0.010	40.9	50.0	Averaged
105 1,3,5-Trinitrobenzene	0.04746	0.05941	0.05941	0.010	25.2	50.0	Averaged
106 Diallate (#1)	0.26475	0.31228	0.31228	0.010	18.0	50.0	Averaged
107 Phorate	0.10328	0.13236	0.13236	0.010	28.2	50.0	Averaged

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CONTINUING CALIBRATION COMPOUNDS

Instrument ID: Y.i Injection Date: 29-MAY-2004 10:32  
 Lab File ID: y1773.d Init. Cal. Date(s): 06-MAY-2004 27-MAY-2004  
 Analysis Type: WATER Init. Cal. Times: 10:56 21:14  
 Lab Sample ID: AP9 0080 Quant Type: ISTD  
 Method: /chem/Y.i/052904.b/8270C.m

COMPOUND	RRF / AMOUNT	RF80	CCAL RRF80	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
109 Phenacetin	0.22832	0.28072	0.28072	0.010	23.0	50.0	Averaged
111 Diallate (#2)	0.15847	0.16575	0.16575	0.010	4.6	50.0	Averaged
112 Dimethoate	0.16416	0.17179	0.17179	0.010	4.6	50.0	Averaged
114 4-Aminobiphenyl	117	80.00000	0.67682	0.010	46.8	50.0	Quadratic
115 Pentachloronitrobenzene	102	80.00000	0.07918	0.010	27.7	50.0	Quadratic
116 Pronamide	123	80.00000	0.25240	0.010	53.3	50.0	Quadratic
120 2-secbutyl-4,6-dinitrophenol	106	80.00000	0.15641	0.010	32.4	50.0	Wt Linear
121 Disulfoton	0.23626	0.28497	0.28497	0.010	20.6	50.0	Averaged
124 Methyl parathion	0.14567	0.17122	0.17122	0.010	17.5	50.0	Averaged
126 Parathion	0.08980	0.11638	0.11638	0.010	29.6	50.0	Averaged
127 4-Nitroquinoline-1-oxide	0.05029	0.03357	0.03357	0.010	-33.2	50.0	Averaged
128 Methapyrilene	0.12232	0.11137	0.11137	0.010	-9.0	50.0	Averaged
129 Isodrin	0.09499	0.11010	0.11010	0.010	15.9	50.0	Averaged
134 Aramite (#1)	0.11166	0.15072	0.15072	0.010	35.0	50.0	Averaged
135 Aramite (#2)	0.14392	0.18809	0.18809	0.010	30.7	50.0	Averaged
136 p-Dimethylaminoazobenzene	0.23233	0.32319	0.32319	0.010	39.1	50.0	Averaged
138 3,3'-Dimethylbenzidine	0.47921	0.55817	0.55817	0.010	16.5	50.0	Averaged
139 2-Acetylaminofluorene	0.29128	0.38980	0.38980	0.010	33.8	50.0	Averaged
149 7,12-Dimethylbenz(a)anthrac	0.49860	0.59752	0.59752	0.010	19.8	50.0	Averaged
152 3-Methylcholanthrene	0.51482	0.60131	0.60131	0.010	16.8	50.0	Averaged
153 Dibenz(a,j)acridine	0.67765	0.80096	0.80096	0.010	18.2	50.0	Averaged
M 1 Total Isosafrole	0.24152	0.29582	0.29582	0.010	22.5	50.0	Averaged
M 2 Total Diallate	0.23514	0.27245	0.27245	0.010	15.9	50.0	Averaged
M 3 Total Aramite	0.12891	0.16939	0.16939	0.010	31.4	50.0	Averaged
165 Chlorobenzilate	0.26342	0.35222	0.35222	0.010	33.7	50.0	Averaged
199 1,4-Dioxane	0.46132	0.52271	0.52271	0.010	13.3	50.0	Averaged
175 Biphenyl	1.17402	1.39688	1.39688	0.010	19.0	50.0	Averaged

5/29/04  
CS

STL-Denver

BNA ANALYSIS QUANTITATION REPORT

Data file : /chem/Y.i/052904.b/y1773.d  
Lab Smp Id: AP9\_0080 Client Smp ID: AP9\_0080  
Inj Date : 29-MAY-2004 10:32  
Operator : todear Inst ID: Y.i  
Smp Info : AP9\_0080,BNA1406,P:052804,E:060404  
Misc Info :  
Comment : SOP#CORP-MS-0001DEN, revision1.1  
Method : /chem/Y.i/052904.b/8270C.m  
Meth Date : 29-May-2004 11:26 todear Quant Type: ISTD  
Cal Date : 26-MAY-2004 17:20 Cal File: y1684.d  
Als bottle: 2 Continuing Calibration Sample  
Dil Factor: 1.00000  
Integrator: HP RTE Compound Sublist: 2-AP9std.sub  
Target Version: 3.50  
Processing Host: chemsv03

Concentration Formula: Amt \* DF \* Vf/Vs \* CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vf	1000.00000	final volume at end of extraction (uL)
Vs	1000.00000	volume of sample extracted (mL)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG						AMOUNTS	
		MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT	ON-COL
							(ug/ml)	(ug/ml)
*****								
* 22 1,4-Dichlorobenzene-d4	152		5.808	5.808	(1.000)	175265	40.0000	
* 49 Naphthalene-d8	136		7.037	7.037	(1.000)	698653	40.0000	
* 83 Acenaphthene-d10	164		8.744	8.744	(1.000)	413732	40.0000	
* 117 Phenanthrene-d10	188		10.011	10.011	(1.000)	699935	40.0000	
* 142 Chrysene-d12	240		12.163	12.163	(1.000)	473538	40.0000	
* 151 Perylene-d12	264		13.585	13.585	(1.000)	342470	40.0000	
7 2-Picoline	93		4.101	4.101	(0.706)	464240	80.0000	91.6557
8 N-Nitrosomethylethylamine	88		4.192	4.192	(0.722)	201458	80.0000	84.4468 (M)
9 Methyl methanesulfonate	80		4.466	4.466	(0.769)	127738	80.0000	88.6368
11 N-Nitrosodiethylamine	102		4.825	4.825	(0.831)	209325	80.0000	88.5826
13 Ethyl methanesulfonate	79		5.094	5.094	(0.877)	316044	80.0000	88.0151
19 Pentachloroethane	117		5.545	5.545	(0.955)	166300	80.0000	96.8638
31 N-Nitrosopyrrolidine	100		6.189	6.189	(1.066)	232232	80.0000	95.2498
34 N-Nitrosomorpholine	116		6.216	6.216	(1.070)	99045	80.0000	94.9783
35 o-Toluidine	106		6.221	6.221	(1.071)	719933	80.0000	96.3324

Compounds	QUANT SIG					AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)
=====	====	==	=====	=====	=====	=====	=====
39 N-Nitrosopiperidine	114	6.511	6.511	(0.925)	227153	80.0000	87.9737
44 O,O,O-Triethyl phosphorothio	198	6.709	6.709	(0.953)	258847	80.0000	91.1118
48 a,a-Dimethylphenethylamine	58	6.854	6.854	(0.974)	942659	80.0000	78.1646(MH)
53 2,6-Dichlorophenol	162	7.112	7.112	(1.011)	394147	80.0000	90.5965
54 Hexachloropropene	213	7.128	7.128	(1.013)	286886	80.0000	93.7725
57 N-Nitrosodi-n-butylamine	84	7.396	7.396	(1.051)	300773	80.0000	92.2421
58 p-Phenylenediamine	108	7.466	7.466	(1.061)	393768	80.0000	82.1673
61 Safrole	162	7.627	7.627	(1.084)	384083	80.0000	91.1868
65 1,2,4,5-Tetrachlorobenzene	216	7.896	7.896	(1.122)	436459	80.0000	88.7086
66 Isosafrole (#1)	162	7.917	7.917	(0.905)	44895	14.0000	14.4297
72 Isosafrole (#2)	104	8.143	8.143	(0.931)	199887	66.0000	84.4107
73 1-Chloronaphthalene	162	8.250	8.250	(0.944)	878381	80.0000	92.0566
75 1,4-Naphthoquinone	158	8.406	8.406	(0.961)	190683	80.0000	87.0068
78 1,4-Dinitrobenzene	168	8.459	8.459	(0.967)	153791	80.0000	98.4309
80 1,3-Dinitrobenzene	168	8.529	8.529	(0.975)	171175	80.0000	92.1034
89 Pentachlorobenzene	250	8.889	8.889	(1.017)	377918	80.0000	89.8040
90 1-Naphthylamine	143	9.012	9.012	(1.031)	917394	80.0000	102.426
91 2,3,4,6-Tetrachlorophenol	232	9.034	9.034	(1.033)	264222	80.0000	93.2305
92 2-Naphthylamine	143	9.077	9.077	(1.038)	923836	80.0000	91.2881
98 Thionazin	97	9.157	9.157	(1.047)	210150	80.0000	99.2762
100 5-Nitro-o-toluidine	152	9.248	9.248	(1.058)	272644	80.0000	89.4781
182 Diphenylamine	169	9.313	9.313	(1.065)	868864	80.0000	99.7644
104 Sulfotepp	97	9.393	9.393	(0.938)	153297	80.0000	112.729
105 1,3,5-Trinitrobenzene	213	9.544	9.544	(0.953)	83161	80.0000	100.135
106 Diallate (#1)	86	9.522	9.522	(0.951)	315940	57.8000	68.1773
107 Phorate	121	9.538	9.538	(0.953)	185290	80.0000	102.526
109 Phenacetin	108	9.570	9.570	(0.956)	392966	80.0000	98.3605
111 Diallate (#2)	86	9.597	9.597	(0.959)	65550	22.6000	23.6384
112 Dimethoate	87	9.710	9.710	(0.970)	240488	80.0000	83.7178
114 4-Aminobiphenyl	169	9.844	9.844	(0.983)	947459	80.0000	117.471
115 Pentachloronitrobenzene	237	9.850	9.850	(0.984)	110842	80.0000	102.172
116 Pronamide	173	9.850	9.850	(0.984)	353322	80.0000	122.606
120 2-secbutyl-4,6-dinitrophenol	211	9.962	9.962	(0.995)	218960	80.0000	105.941
121 Disulfoton	88	9.957	9.957	(0.995)	398926	80.0000	96.4950
124 Methyl parathion	109	10.268	10.268	(1.026)	239684	80.0000	94.0307
126 Parathion	109	10.558	10.558	(1.055)	162919	80.0000	103.685
127 4-Nitroquinoline-1-oxide	190	10.665	10.665	(1.065)	46989	80.0000	53.4022
128 Methapyrilene	97	10.649	10.649	(1.064)	155905	80.0000	72.8377
129 Isodrin	193	10.848	10.848	(1.084)	154124	80.0000	92.7270
134 Aramite (#1)	185	11.175	11.175	(0.919)	64236	36.0000	48.5937
135 Aramite (#2)	185	11.234	11.234	(0.924)	96191	43.2000	56.4589
136 p-Dimethylaminoazobenzene	120	11.352	11.352	(0.933)	306083	80.0000	111.286
138 3,3'-Dimethylbenzidine	212	11.642	11.642	(0.957)	528626	80.0000	93.1815
139 2-Acetylaminofluorene	181	11.868	11.868	(0.976)	369174	80.0000	107.061
149 7,12-Dimethylbenz(a)anthrac	256	13.113	13.113	(0.965)	409268	80.0000	95.8729
152 3-Methylcholanthrene	268	13.902	13.902	(1.023)	411859	80.0000	93.4390
153 Dibenz(a,j)acridine	279	14.745	14.745	(1.085)	548610	80.0000	94.5578



Compounds	QUANT SIG					AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/ml)	ON-COL (ug/ml)
=====	----	==	=====	=====	=====	=====	=====
M 1 Total Isosafrole	162				244782	80.0000	97.9872
M 2 Total Diallate	86				381390	80.0000	92.6921
M 3 Total Aramite	185				160427	80.0000	105.126
165 Chlorobenzilate	251	11.369	11.369	(0.935)	333575	80.0000	106.967
199 1,4-Dioxane	88	2.984	2.984	(0.514)	183226	80.0000	90.6460
175 Biphenyl	154	8.191	8.191	(0.937)	1155868	80.0000	95.1863

QC Flag Legend

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

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INTERNAL STANDARD COMPOUNDS  
AREA AND RT SUMMARY

Instrument ID: Y.i	Calibration Date: 29-MAY-2004
Lab File ID: y1773.d	Calibration Time: 10:06
Lab Smp Id: AP9 0080	Client Smp ID: AP9_0080
Analysis Type: SV	Level: LOW
Quant Type: ISTD	Sample Type: WATER
Operator: todear	
Method File: /chem/Y.i/052904.b/8270C.m	
Misc Info:	

Test Mode:  
Use Last Continuing Calibrator.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
22 1,4-Dichlorobenze	175265	87632	350530	175265	0.00
49 Naphthalene-d8	698653	349326	1397306	698653	0.00
83 Acenaphthene-d10	413732	206866	827464	413732	0.00
117 Phenanthrene-d10	699935	349968	1399870	699935	0.00
142 Chrysene-d12	473538	236769	947076	473538	0.00
151 Perylene-d12	342470	171235	684940	342470	0.00

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
22 1,4-Dichlorobenze	5.81	5.31	6.31	5.81	0.00
49 Naphthalene-d8	7.04	6.54	7.54	7.04	0.00
83 Acenaphthene-d10	8.74	8.24	9.24	8.74	0.00
117 Phenanthrene-d10	10.01	9.51	10.51	10.01	0.00
142 Chrysene-d12	12.16	11.66	12.66	12.16	0.00
151 Perylene-d12	13.59	13.09	14.09	13.59	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.

Internal Standard  
Check Report

Instrument ID: Y.i  
Lab File ID: y1773.d  
Analysis Type: WATER

Injection Date: 29-MAY-2004 10:32  
Lab Sample ID: AP9 0080  
Method File: /chem7Y.i/052904.b/8270C.m

INTERNAL STANDARD	ICAL AREA	SAMP AREA	ICAL RT	SAMP RT	%R
1,4-Dichlorobenzene-d4	162998	175265	5.919	5.808	107.5
Naphthalene-d8	638638	698653	7.148	7.037	109.4
Acenaphthene-d10	386064	413732	8.860	8.744	107.2
Phenanthrene-d10	680326	699935	10.122	10.011	102.9
Chrysene-d12	508928	473538	12.269	12.163	93.0
Perylene-d12	379385	342470	13.772	13.585	90.3

Data File: /chem/Y.i/052904.b/y1773.d

Date : 29-MAY-2004 10:32

Client ID: AP9\_0080

Sample Info: AP9\_0080,BNA1406,P:052804,E:060404

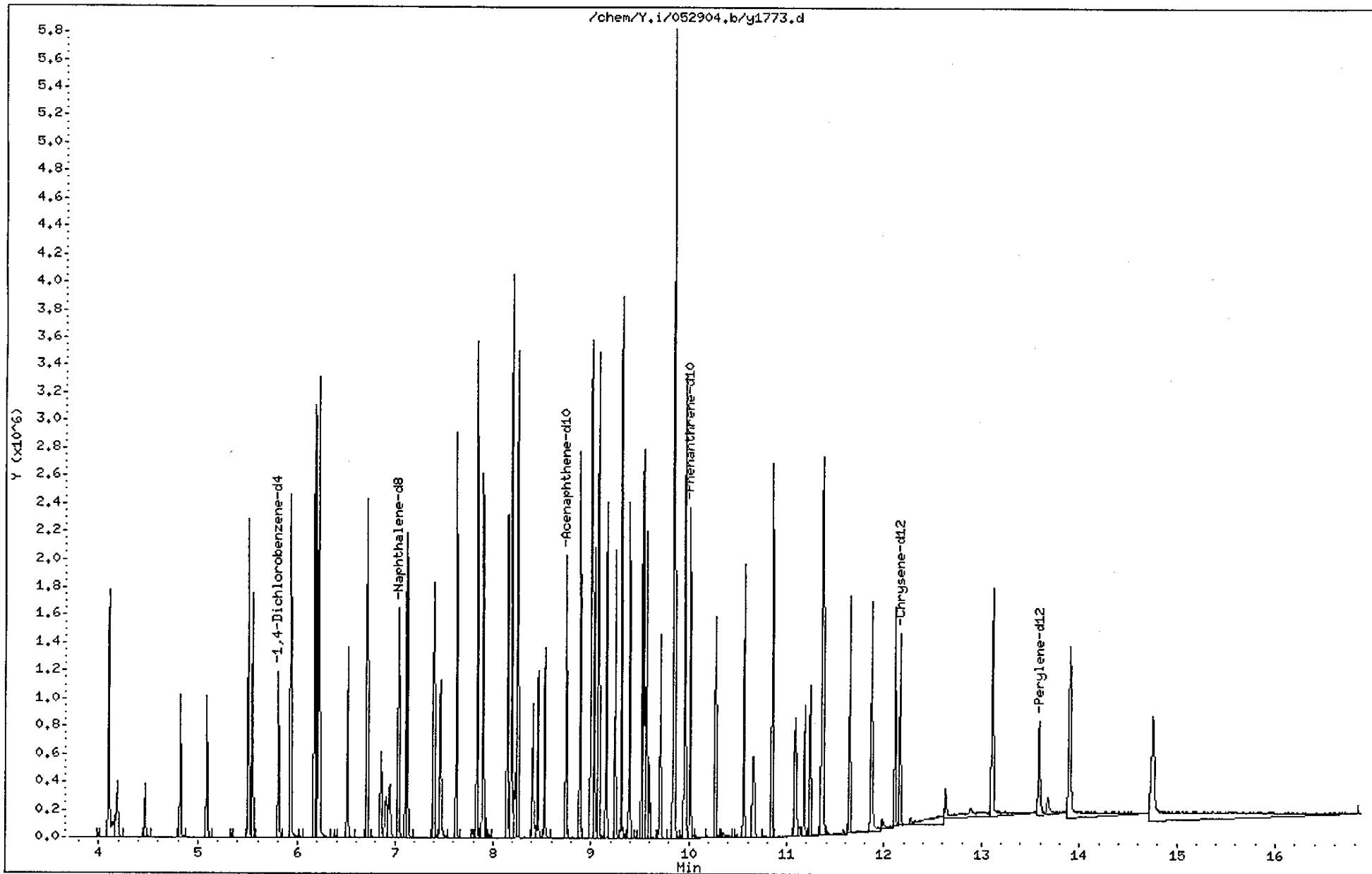
Volume Injected (uL): 0.5

Column phase: Rtx-5ms 30m 0.5um

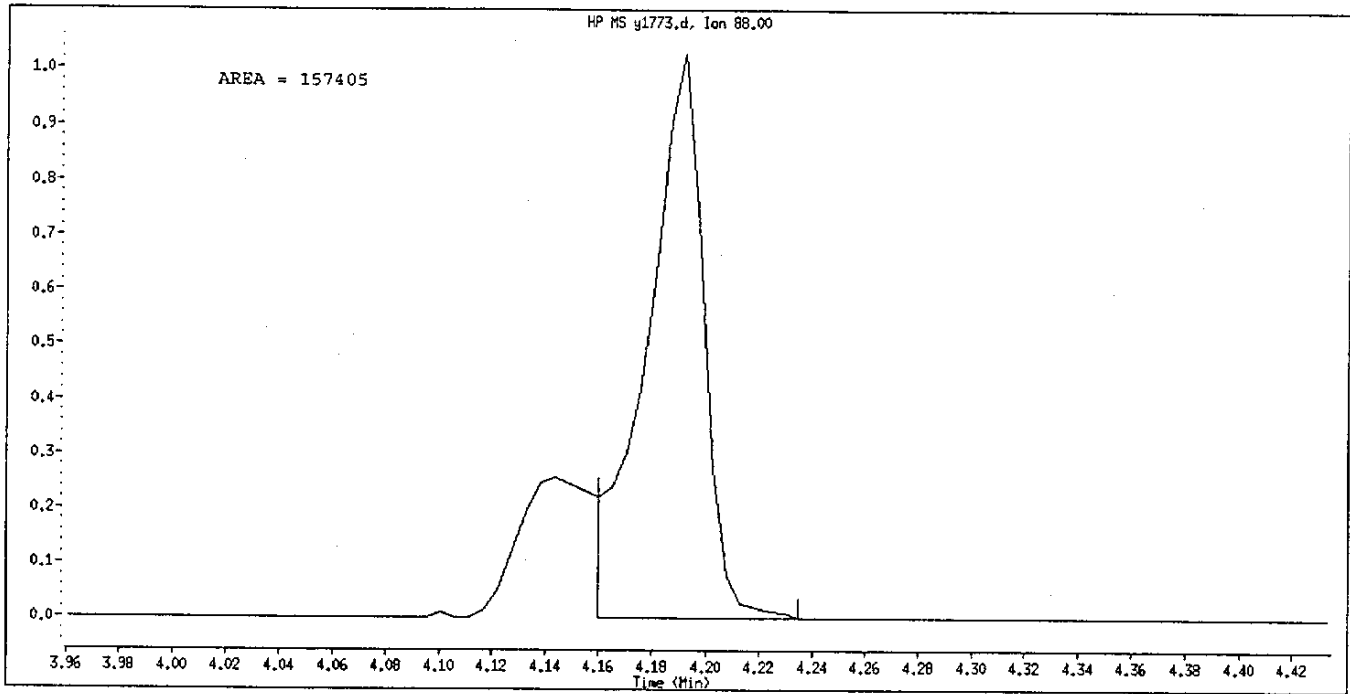
Instrument: Y.i

Operator: todear

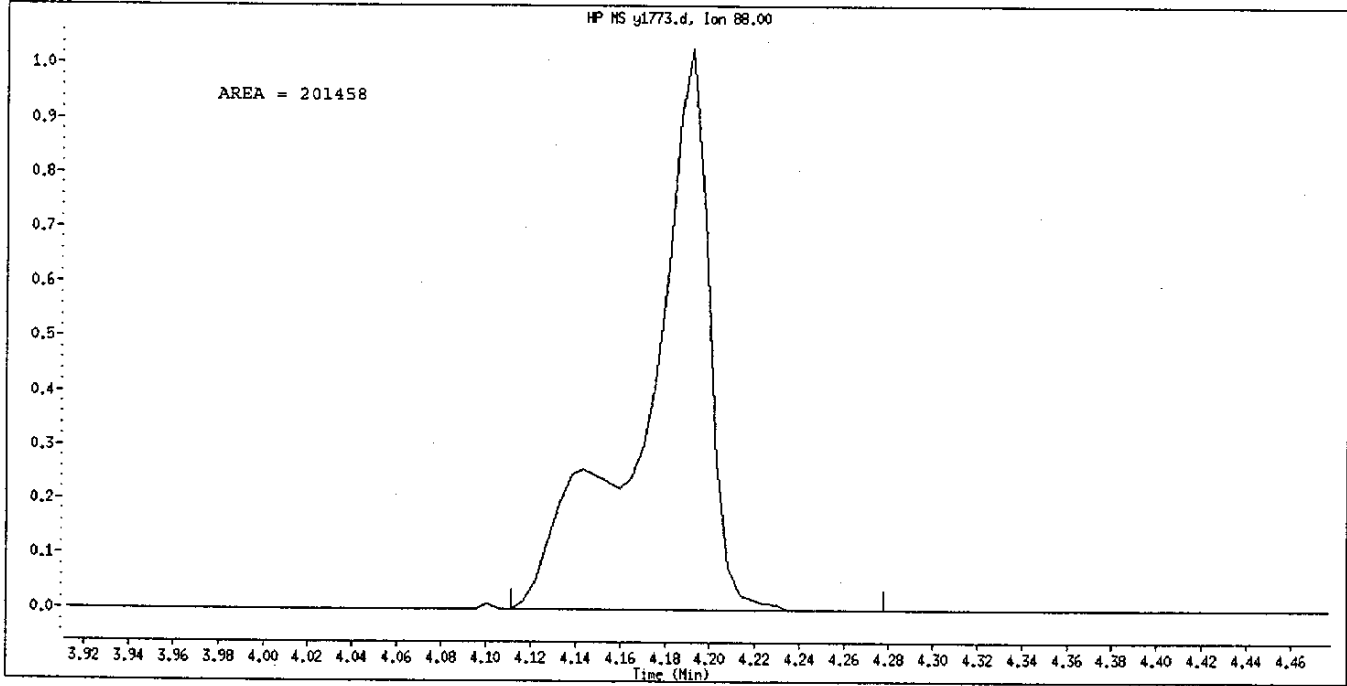
Column diameter: 0.25



Data File Name: y1773.d  
Inj. Date and Time: 29-MAY-2004 10:32  
Instrument ID: Y.1  
Client ID: AP9\_0080  
Compound Name: N-Nitrosomethylethylamine  
CAS #: 10595-95-6  
Report Date: 05/29/2004



Original Integration

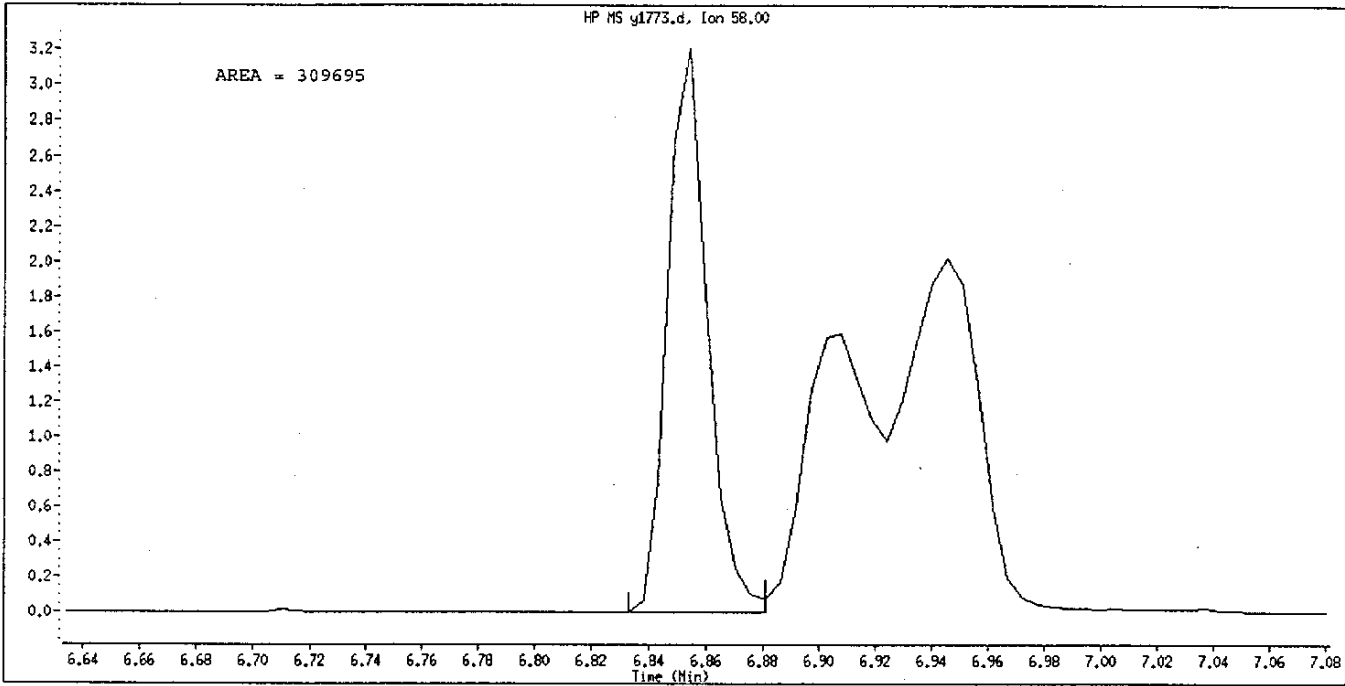


Manual Integration

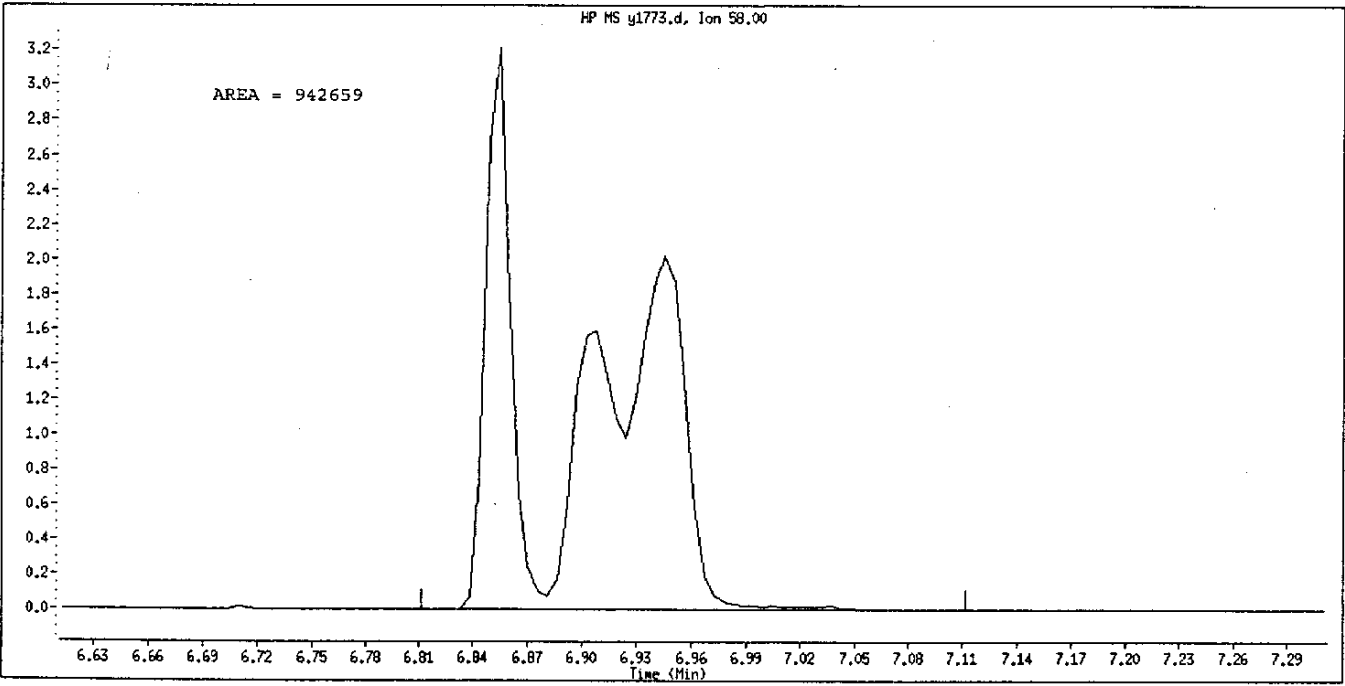
Manually Integrated By: todear  
Manual Integration Reason: Split Peak

*skelci*  
*LS*  
*max*  
*05-29-04*

Data File Name: y1773.d  
Inj. Date and Time: 29-MAY-2004 10:32  
Instrument ID: Y.i  
Client ID: AP9\_0080  
Compound Name: a,a-Dimethylphenethylamine  
CAS #: 122-09-8  
Report Date: 05/29/2004



Original Integration



Manual Integration

Manually Integrated By: todear  
Manual Integration Reason: Split Peak

*5/29/04*  
*W*  
*man*  
*05-29-04*

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CONTINUING CALIBRATION COMPOUNDS

Instrument ID: Y.i                      Injection Date: 29-MAY-2004 10:59  
Lab File ID: y1774.d                  Init. Cal. Date(s): 06-MAY-2004    27-MAY-2004  
Analysis Type: WATER                  Init. Cal. Times:    10:56                  21:14  
Lab Sample ID: CUST0080              Quant Type:    ISTD  
Method: /chem/Y.i/052904.b/8270C.m

COMPOUND	RRF / AMOUNT	RF80	CCAL RRF80	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
-----	-----	-----	-----	-----	-----	-----	-----
\$ 184 2,4,6-Trichlorophenol-d2	0.48989	0.50487	0.50487	0.010	3.1	50.0	Averaged
185 Triethylamine	1.08673	1.11680	1.11680	0.010	2.8	50.0	Averaged
186 N,N-Dimethylformamide	0.92309	0.83244	0.83244	0.010	-9.8	50.0	Averaged
69 2,4 & 2,6-Toluenediamine	1.05552	1.02141	1.02141	0.010	-3.2	50.0	Averaged
188 Benzal chloride	2.07488	1.89895	1.89895	0.010	-8.5	50.0	Averaged
189 Carbofuran phenol	0.20801	0.23164	0.23164	0.010	11.4	50.0	Averaged
191 4,4'-Methylenebis(2-chloroa	0.16010	0.16839	0.16839	0.010	5.2	50.0	Averaged
192 tris(2,3-Dibromopropyl)phos	++++	0.00337	0.00337	0.010	++++	50.0	Averaged
193 Methomyl	0.04377	0.03249	0.03249	0.010	-25.8	50.0	Averaged
166 Famphur	0.03211	0.02799	0.02799	0.010	-12.8	50.0	Averaged
178 Perylene	1.16016	1.08421	1.08421	0.010	-6.5	50.0	Averaged
194 Acrylamide	0.50744	0.41794	0.41794	0.010	-17.6	50.0	Averaged
197 2-Ethoxyethanol	0.65226	0.63688	0.63688	0.010	-2.4	50.0	Averaged
201 Triethylphosphate	0.23731	0.26590	0.26590	0.010	12.0	50.0	Averaged

<- *mc*

5/29/04  
LS

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BNA ANALYSIS QUANTITATION REPORT

Data file : /chem/Y.i/052904.b/y1774.d  
Lab Smp Id: CUST0080 Client Smp ID: CUST0080  
Inj Date : 29-MAY-2004 10:59  
Operator : todear Inst ID: Y.i  
Smp Info : CUST0080,BNA1518,P:052804,E:060404  
Misc Info :  
Comment : SOP#CORP-MS-0001DEN, revision1.1  
Method : /chem/Y.i/052904.b/8270C.m  
Meth Date : 29-May-2004 11:28 todear Quant Type: ISTD  
Cal Date : 26-MAY-2004 17:20 Cal File: y1684.d  
Als bottle: 3 Continuing Calibration Sample  
Dil Factor: 1.00000  
Integrator: HP RTE Compound Sublist: 4-CUST.sub  
Target Version: 3.50  
Processing Host: chemsv03

Concentration Formula: Amt \* DF \* Vf/Vs \* CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vf	1000.00000	final volume at end of extraction (uL)
Vs	1000.00000	volume of sample extracted (mL)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG						AMOUNTS	
		MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT	ON-COL
							(ug/ml)	(ug/ml)
* 22 1,4-Dichlorobenzene-d4	152		5.804	5.804	(1.000)	175477	40.0000	
* 49 Naphthalene-d8	136		7.034	7.034	(1.000)	627943	40.0000	
* 83 Acenaphthene-d10	164		8.746	8.746	(1.000)	420683	40.0000	
* 117 Phenanthrene-d10	188		10.007	10.007	(1.000)	747382	40.0000	
* 142 Chrysene-d12	240		12.149	12.149	(1.000)	520373	40.0000	
* 151 Perylene-d12	264		13.571	13.571	(1.000)	400379	40.0000	
\$ 184 2,4,6-Trichlorophenol-d2	198		8.005	8.005	(0.915)	424779	80.0000	82.4461
185 Triethylamine	86		2.750	2.750	(0.474)	391947	80.0000	82.2139
186 N,N-Dimethylformamide	73		3.754	3.754	(0.647)	292149	80.0000	72.1439
69 2,4 & 2,6-Toluenediamine	122		8.204	8.204	(0.938)	859376	80.0000	77.4144
188 Benzal chloride	125		6.695	6.695	(1.153)	666444	80.0000	73.2169
189 Carbofuran phenol	164		7.645	7.645	(1.087)	290913	80.0000	89.0861
191 4,4'-Methylenebis(2-chloroani	231		12.085	12.085	(0.995)	175254	80.0000	84.1412
193 Methomyl	58		6.073	6.073	(0.694)	27340	80.0000	59.3937
166 Famphur	218		11.569	11.569	(0.952)	29130	80.0000	69.7335



Compounds	QUANT SIG						AMOUNTS	
	MASS	RT	EXP RT	REL RT	RESPONSE		CAL-AMT	ON-COL
							(ug/ml)	(ug/ml)
178 Perylene	252	13.609	13.609	(1.003)	868186		80.0000	74.7624
194 Acrylamide	71	4.516	4.516	(0.778)	146676		80.0000	65.8888
197 2-Ethoxyethanol	59	2.992	2.992	(0.515)	223516		80.0000	78.1138
201 Triethylphosphate	99	6.454	6.454	(0.918)	333936		80.0000	89.6367

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INTERNAL STANDARD COMPOUNDS  
AREA AND RT SUMMARY

Instrument ID: Y.i	Calibration Date: 29-MAY-2004
Lab File ID: y1774.d	Calibration Time: 10:32
Lab Smp Id: CUST0080	Client Smp ID: CUST0080
Analysis Type: SV	Level: LOW
Quant Type: ISTD	Sample Type: WATER
Operator: todear	
Method File: /chem/Y.i/052904.b/8270C.m	
Misc Info:	

Test Mode: Use Last Continuing Calibrator.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
22 1,4-Dichlorobenze	175477	87738	350954	175477	0.00
49 Naphthalene-d8	627943	313972	1255886	627943	0.00
83 Acenaphthene-d10	420683	210342	841366	420683	0.00
117 Phenanthrene-d10	747382	373691	1494764	747382	0.00
142 Chrysene-d12	520373	260186	1040746	520373	0.00
151 Perylene-d12	400379	200190	800758	400379	0.00

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
22 1,4-Dichlorobenze	5.80	5.30	6.30	5.80	0.00
49 Naphthalene-d8	7.03	6.53	7.53	7.03	0.00
83 Acenaphthene-d10	8.75	8.25	9.25	8.75	0.00
117 Phenanthrene-d10	10.01	9.51	10.51	10.01	0.00
142 Chrysene-d12	12.15	11.65	12.65	12.15	0.00
151 Perylene-d12	13.57	13.07	14.07	13.57	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.

Internal Standard  
Check Report

Instrument ID: Y.i                      Injection Date: 29-MAY-2004 10:59  
Lab File ID: y1774.d                  Lab Sample ID: CUST0080  
Analysis Type: WATER                  Method File: /chem/Y.i/052904.b/8270C.m

INTERNAL STANDARD	ICAL AREA	SAMP AREA	ICAL RT	SAMP RT	IR
1,4-Dichlorobenzene-d4	134175	175477	5.918	5.804	130.8
Naphthalene-d8	537526	627943	7.152	7.034	116.8
Acenaphthene-d10	313414	420683	8.859	8.746	134.2
Phenanthrene-d10	577920	747382	10.126	10.007	129.3
Chrysene-d12	453767	520373	12.279	12.149	114.7
Perylene-d12	356689	400379	13.787	13.571	112.2

Data File: /chem/Y.i/052904.b/y1774.d

Date : 29-MAY-2004 10:59

Client ID: CUST0080

Sample Info: CUST0080,BNA1518,P:052804,E:060404

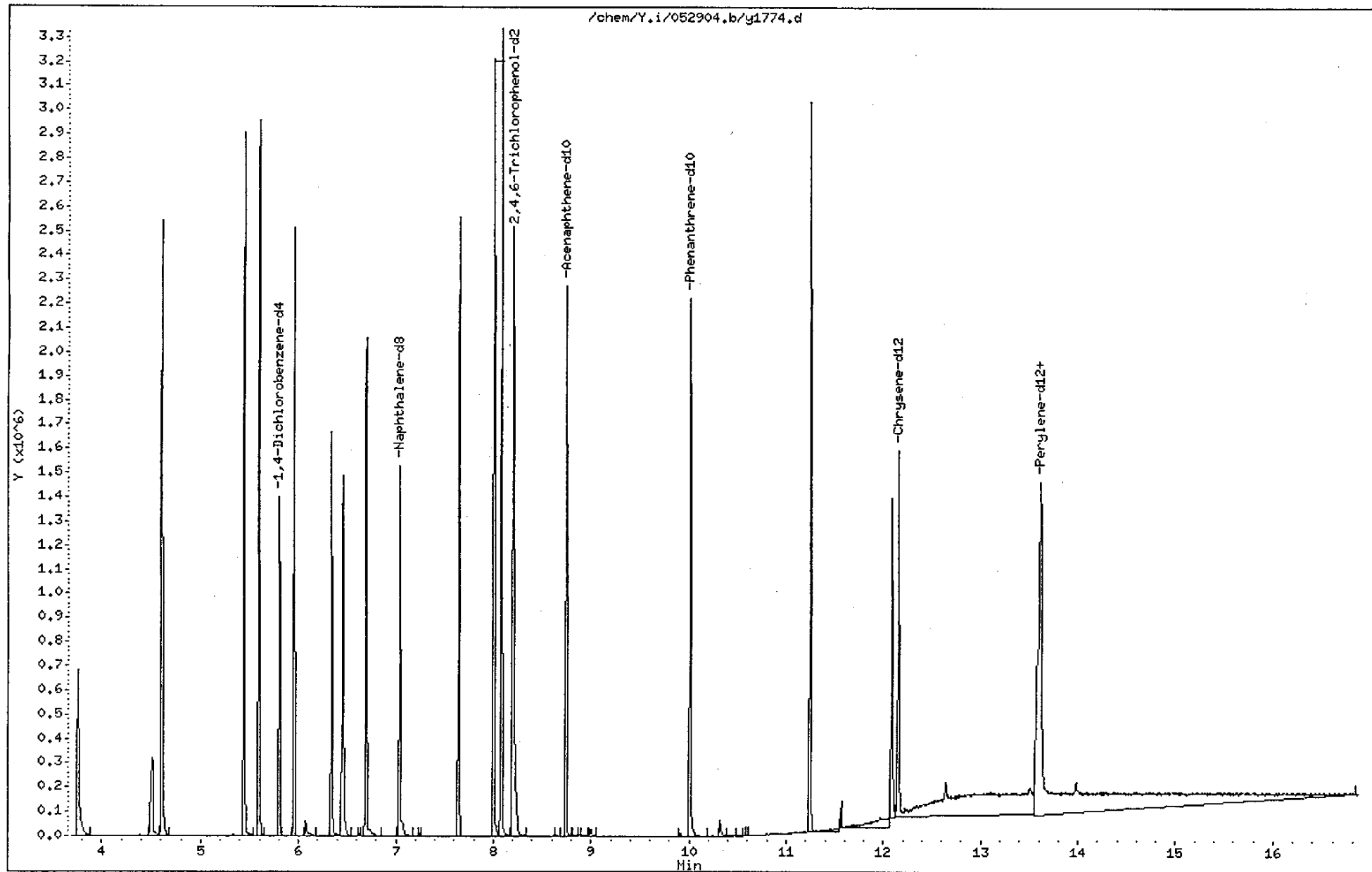
Volume Injected (uL): 0.5

Column phase: Rtx-5ms 30m 0.5um

Instrument: Y.i

Operator: todear

Column diameter: 0.25



Calibration History

Method : /chem/Y.i/052904.b/8270C.m  
Start Cal Date: 06-MAY-2004 10:56  
End Cal Date : 27-MAY-2004 21:14

Initial Calibration

Injection Date	Sublist	Calibration File
Cal Level: 1 , Cal Amount: 5.00000		
27-MAY-2004 18:05	1-HSL	/chem/Y.i/052704.b/y1720.d
Cal Level: 2 , Cal Amount: 10.00000		
13-MAY-2004 18:48	3-REF	/chem/Y.i/051304.b/y1405.d
13-MAY-2004 15:15	2-AP9std	/chem/Y.i/051304.b/y1397.d
13-MAY-2004 11:44	4-CUST	/chem/Y.i/051304.b/y1389.d
27-MAY-2004 18:32	1-HSL	/chem/Y.i/052704.b/y1721.d
Cal Level: 3 , Cal Amount: 20.00000		
13-MAY-2004 19:15	3-REF	/chem/Y.i/051304.b/y1406.d
13-MAY-2004 15:41	2-AP9std	/chem/Y.i/051304.b/y1398.d
13-MAY-2004 12:10	4-CUST	/chem/Y.i/051304.b/y1390.d
27-MAY-2004 18:59	1-HSL	/chem/Y.i/052704.b/y1722.d
Cal Level: 4 , Cal Amount: 50.00000		
13-MAY-2004 19:41	3-REF	/chem/Y.i/051304.b/y1407.d
13-MAY-2004 16:08	2-AP9std	/chem/Y.i/051304.b/y1399.d
13-MAY-2004 12:36	4-CUST	/chem/Y.i/051304.b/y1391.d
27-MAY-2004 19:26	1-HSL	/chem/Y.i/052704.b/y1723.d
Cal Level: 5 , Cal Amount: 80.00000		
13-MAY-2004 18:21	3-REF	/chem/Y.i/051304.b/y1404.d
13-MAY-2004 14:48	2-AP9std	/chem/Y.i/051304.b/y1396.d
13-MAY-2004 11:18	4-CUST	/chem/Y.i/051304.b/y1388.d
27-MAY-2004 19:53	1-HSL	/chem/Y.i/052704.b/y1724.d
Cal Level: 6 , Cal Amount: 120.00000		
13-MAY-2004 20:08	3-REF	/chem/Y.i/051304.b/y1408.d
13-MAY-2004 16:35	2-AP9std	/chem/Y.i/051304.b/y1400.d
13-MAY-2004 13:03	4-CUST	/chem/Y.i/051304.b/y1392.d
27-MAY-2004 20:20	1-HSL	/chem/Y.i/052704.b/y1725.d

Cal Level: 7 , Cal Amount: 160.00000  
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13-MAY-2004 20:35	3-REF	/chem/Y.i/051304.b/y1409.d
13-MAY-2004 17:01	2-AP9std	/chem/Y.i/051304.b/y1401.d
13-MAY-2004 13:29	4-CUST	/chem/Y.i/051304.b/y1393.d
27-MAY-2004 20:47	1-HSL	/chem/Y.i/052704.b/y1726.d

Cal Level: 8 , Cal Amount: 200.00000		
26-MAY-2004 17:20	10-HEX	/chem/Y.i/0526042.b/y1684.d
13-MAY-2004 21:01	3-REF	/chem/Y.i/051304.b/y1410.d
13-MAY-2004 17:28	2-AP9std	/chem/Y.i/051304.b/y1402.d
13-MAY-2004 13:55	4-CUST	/chem/Y.i/051304.b/y1394.d
27-MAY-2004 21:14	1-HSL	/chem/Y.i/052704.b/y1727.d

Continuing Calibration  
Ccal Level Mode: GLOBAL LEVEL 5

Ccal Level: 5 , Ccal Amount: 80.0000		
29-MAY-2004 10:59	4-CUST	/chem/Y.i/052904.b/y1774.d ✓
Ccal Level: 5 , Ccal Amount: 80.0000		
29-MAY-2004 10:32	2-AP9std	/chem/Y.i/052904.b/y1773.d ✓
Ccal Level: 5 , Ccal Amount: 80.0000		
29-MAY-2004 10:06	1-HSL	/chem/Y.i/052904.b/y1772.d

**GC/MS SEMIVOLATILE  
SAMPLE DATA**

**SEVERN**  
**TRENT**

**STL**

5/28/04  
15

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BNA ANALYSIS QUANTITATION REPORT

Data file : /chem/Y.i/052804.b/y1751.d  
Lab Smp Id: GGQDN1AA Client Smp ID: INTRA-LAB BLANK  
Inj Date : 28-MAY-2004 09:14  
Operator : todear Inst ID: Y.i  
Smp Info : GGQDN1AA,,D4E210000-151  
Misc Info : 4142151  
Comment : SOP#CORP-MS-0001DEN, revision1.1  
Method : /chem/Y.i/052804.b/8270C.m  
Meth Date : 28-May-2004 14:06 todear Quant Type: ISTD  
Cal Date : 26-MAY-2004 17:20 Cal File: y1684.d  
Als bottle: 8 QC Sample: BLANK  
Dil Factor: 1.00000  
Integrator: HP RTE Compound Sublist: HSLAP9CUST.sub  
Target Version: 3.50  
Processing Host: chemsv03

Concentration Formula: Amt \* DF \* Vf/Vs \* CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vf	1000.00000	final volume at end of extraction (uL)
Vs	1000.00000	volume of sample extracted (mL)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG						CONCENTRATIONS	
		MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN	FINAL
							(ug/ml)	( ug/L)
* 22 1,4-Dichlorobenzene-d4	152		5.810	5.815	(1.000)	107902	40.0000	
* 49 Naphthalene-d8	136		7.044	7.044	(1.000)	433813	40.0000	
* 83 Acenaphthene-d10	164		8.751	8.757	(1.000)	281037	40.0000	
* 117 Phenanthrene-d10	188		10.018	10.018	(1.000)	500253	40.0000	
* 142 Chrysene-d12	240		12.192	12.165	(1.000)	353627	40.0000	
* 151 Perylene-d12	264		13.625	13.582	(1.000)	276928	40.0000	
\$ 36 Nitrobenzene-d5	82		6.347	6.352	(1.092)	250273	70.8366	70.8366
\$ 70 2-Fluorobiphenyl	172		8.091	8.091	(0.925)	464890	57.6094	57.6094
\$ 133 Terphenyl-d14	244		11.263	11.247	(0.924)	583141	76.2736	76.2736
\$ 10 2-Fluorophenol	112		4.607	4.613	(0.793)	378230	116.643	116.643
\$ 14 Phenol-d5	99		5.445	5.450	(0.937)	466851	116.320	116.320
\$ 103 2,4,6-Tribromophenol	330		9.444	9.449	(0.943)	97654	105.544	105.544
\$ 163 1,2-Dichlorobenzene-d4	152		5.960	5.965	(1.026)	127475	57.1121	57.1121
\$ 162 2-Chlorophenol-d4	132		5.601	5.606	(0.964)	405019	115.329	115.329
4 N-Nitrosodimethylamine	74							
						Compound Not Detected.		



Compounds	QUANT SIG						CONCENTRATIONS	
		RT	EXP RT	REL RT	RT	RESPONSE	ON-COLUMN	FINAL
	MASS						(ug/ml)	( ug/L)
=====	----	==	=====	=====		=====	=====	=====
5 Pyridine	79	Compound	Not	Detected.				
7 2-Picoline	93	Compound	Not	Detected.				
8 N-Nitrosomethylethylamine	88	Compound	Not	Detected.				
9 Methyl methanesulfonate	80	Compound	Not	Detected.				
11 N-Nitrosodiethylamine	102	Compound	Not	Detected.				
13 Ethyl methanesulfonate	79	Compound	Not	Detected.				
15 Phenol	94	Compound	Not	Detected.				
16 Aniline	93	Compound	Not	Detected.				
19 Pentachloroethane	117	Compound	Not	Detected.				
18 Bis(2-chloroethyl) ether	93	Compound	Not	Detected.				
20 2-Chlorophenol	128	Compound	Not	Detected.				
21 1,3-Dichlorobenzene	146	Compound	Not	Detected.				
23 1,4-Dichlorobenzene	146	Compound	Not	Detected.				
25 1,2-Dichlorobenzene	146	Compound	Not	Detected.				
24 Benzyl alcohol	108	Compound	Not	Detected.				
26 2-Methylphenol	108	Compound	Not	Detected.				
28 2,2'-oxybis(1-chloropropane)	45	Compound	Not	Detected.				
29 4-Methylphenol	108	Compound	Not	Detected.				
31 N-Nitrosopyrrolidine	100	Compound	Not	Detected.				
32 Acetophenone	105	Compound	Not	Detected.				
34 N-Nitrosomorpholine	116	Compound	Not	Detected.				
35 o-Toluidine	106	Compound	Not	Detected.				
30 N-nitrosodi-n-propylamine	70	Compound	Not	Detected.				
33 Hexachloroethane	117	Compound	Not	Detected.				
37 Nitrobenzene	77	Compound	Not	Detected.				
39 N-Nitrosopiperidine	114	Compound	Not	Detected.				
40 Isophorone	82	Compound	Not	Detected.				
41 2-Nitrophenol	139	Compound	Not	Detected.				
44 O,O,O-Triethyl phosphorothio	198	Compound	Not	Detected.				
42 2,4-Dimethylphenol	107	Compound	Not	Detected.				
43 Bis(2-chloroethoxy)methane	93	Compound	Not	Detected.				
45 Benzoic acid	122	Compound	Not	Detected.				
48 a,a-Dimethylphenethylamine	58	Compound	Not	Detected.				
46 2,4-Dichlorophenol	162	Compound	Not	Detected.				
47 1,2,4-Trichlorobenzene	180	Compound	Not	Detected.				
53 2,6-Dichlorophenol	162	Compound	Not	Detected.				
54 Hexachloropropene	213	Compound	Not	Detected.				
50 Naphthalene	128	Compound	Not	Detected.				
51 4-Chloroaniline	127	Compound	Not	Detected.				
52 Hexachlorobutadiene	225	Compound	Not	Detected.				
57 N-Nitrosodi-n-butylamine	84	Compound	Not	Detected.				
58 p-Phenylenediamine	108	Compound	Not	Detected.				
61 Safrole	162	Compound	Not	Detected.				
59 4-Chloro-3-methylphenol	107	Compound	Not	Detected.				
62 2-Methylnaphthalene	142	Compound	Not	Detected.				
64 1-Methylnaphthalene	142	Compound	Not	Detected.				
65 1,2,4,5-Tetrachlorobenzene	216	Compound	Not	Detected.				

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/ml)	FINAL ( ug/L)
-----	----	--	-----	-----	-----	-----	-----
63 Hexachlorocyclopentadiene	237		Compound	Not Detected.			
66 Isosafrole (#1)	162		Compound	Not Detected.			
72 Isosafrole (#2)	104		Compound	Not Detected.			
73 1-Chloronaphthalene	162		Compound	Not Detected.			
71 2-Chloronaphthalene	162		Compound	Not Detected.			
67 2,4,6-Trichlorophenol	196		Compound	Not Detected.			
68 2,4,5-Trichlorophenol	196		Compound	Not Detected.			
75 1,4-Naphthoquinone	158		Compound	Not Detected.			
74 2-Nitroaniline	65		Compound	Not Detected.			
78 1,4-Dinitrobenzene	168		Compound	Not Detected.			
80 1,3-Dinitrobenzene	168		Compound	Not Detected.			
76 Dimethyl phthalate	163		Compound	Not Detected.			
79 2,6-Dinitrotoluene	165		Compound	Not Detected.			
81 Acenaphthylene	152		Compound	Not Detected.			
82 3-Nitroaniline	138		Compound	Not Detected.			
84 Acenaphthene	153		Compound	Not Detected.			
89 Pentachlorobenzene	250		Compound	Not Detected.			
85 2,4-Dinitrophenol	184		Compound	Not Detected.			
86 4-Nitrophenol	109		Compound	Not Detected.			
87 2,4-Dinitrotoluene	165		Compound	Not Detected.			
88 Dibenzofuran	168		Compound	Not Detected.			
90 1-Naphthylamine	143		Compound	Not Detected.			
91 2,3,4,6-Tetrachlorophenol	232		Compound	Not Detected.			
92 2-Naphthylamine	143		Compound	Not Detected.			
98 Thionazin	97		Compound	Not Detected.			
93 Diethyl phthalate	149		Compound	Not Detected.			
100 5-Nitro-o-toluidine	152		Compound	Not Detected.			
96 Fluorene	166		Compound	Not Detected.			
95 4-Chlorophenyl phenyl ether	204		Compound	Not Detected.			
97 4-Nitroaniline	138		Compound	Not Detected.			
99 4,6-Dinitro-2-methylphenol	198		Compound	Not Detected.			
101 N-nitrosodiphenylamine	169		Compound	Not Detected.			
182 Diphenylamine	169		Compound	Not Detected.			
102 Azobenzene	77		Compound	Not Detected.			
104 Sulfotepp	97		Compound	Not Detected.			
105 1,3,5-Trinitrobenzene	213		Compound	Not Detected.			
107 Phorate	121		Compound	Not Detected.			
109 Phenacetin	108		Compound	Not Detected.			
106 Diallate (#1)	86		Compound	Not Detected.			
111 Diallate (#2)	86		Compound	Not Detected.			
108 4-Bromophenyl phenyl ether	248		Compound	Not Detected.			
110 Hexachlorobenzene	284		Compound	Not Detected.			
112 Dimethoate	87		Compound	Not Detected.			
114 4-Aminobiphenyl	169		Compound	Not Detected.			
115 Pentachloronitrobenzene	237		Compound	Not Detected.			
116 Pronamide	173		Compound	Not Detected.			
113 Pentachlorophenol	266		Compound	Not Detected.			

Compounds	QUANT SIG MASS					CONCENTRATIONS	
		RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/ml)	FINAL ( ug/L)
=====	====	==	=====	=====	=====	=====	=====
120 2-secbutyl-4,6-dinitropheno	211	Compound	Not	Detected.			
121 Disulfoton	88	Compound	Not	Detected.			
118 Phenanthrene	178	Compound	Not	Detected.			
122 Anthracene	178	Compound	Not	Detected.			
123 Carbazole	167	Compound	Not	Detected.			
124 Methyl parathion	109	Compound	Not	Detected.			
125 Di-n-butyl phthalate	149	Compound	Not	Detected.			
126 Parathion	109	Compound	Not	Detected.			
127 4-Nitroquinoline-1-oxide	190	Compound	Not	Detected.			
128 Methapyrilene	97	Compound	Not	Detected.			
129 Isodrin	193	Compound	Not	Detected.			
130 Fluoranthene	202	Compound	Not	Detected.			
131 Benzidine	184	Compound	Not	Detected.			
132 Pyrene	202	Compound	Not	Detected.			
134 Aramite (#1)	185	Compound	Not	Detected.			
135 Aramite (#2)	185	Compound	Not	Detected.			
136 p-Dimethylaminoazobenzene	120	Compound	Not	Detected.			
138 3,3'-Dimethylbenzidine	212	Compound	Not	Detected.			
137 Butyl benzyl phthalate	149	Compound	Not	Detected.			
139 2-Acetylaminofluorene	181	Compound	Not	Detected.			
140 3 3'-Dichlorobenzidine	252	Compound	Not	Detected.			
143 Bis(2-ethylhexyl) phthalate	149	Compound	Not	Detected.			
141 Benzo(a)anthracene	228	Compound	Not	Detected.			
144 Chrysene	228	Compound	Not	Detected.			
146 Di-n-octyl phthalate	149	Compound	Not	Detected.			
149 7,12-Dimethylbenz(a)anthrac	256	Compound	Not	Detected.			
147 Benzo(b)fluoranthene	252	Compound	Not	Detected.			
148 Benzo(k)fluoranthene	252	Compound	Not	Detected.			
150 Benzo(a)pyrene	252	Compound	Not	Detected.			
152 3-Methylcholanthrene	268	Compound	Not	Detected.			
153 Dibenz(a,j)acridine	279	Compound	Not	Detected.			
155 Indeno(1,2,3-cd)pyrene	276	Compound	Not	Detected.			
156 Dibenz(a,h)anthracene	278	Compound	Not	Detected.			
157 Benzo(g,h,i)perylene	276	Compound	Not	Detected.			
M 1 Total Isosafrole	162	Compound	Not	Detected.			
M 2 Total Diallate	86	Compound	Not	Detected.			
M 3 Total Aramite	185	Compound	Not	Detected.			
165 Chlorobenzilate	251	Compound	Not	Detected.			
27 1H-Indene	116	Compound	Not	Detected.			
168 Methyl Styrene	118	Compound	Not	Detected.			
199 1,4-Dioxane	88	Compound	Not	Detected.			
175 Biphenyl	154	Compound	Not	Detected.			
185 Triethylamine	85	Compound	Not	Detected.			
186 N,N-Dimethylformamide	73	Compound	Not	Detected.			
69 2,4 & 2,6-Toluenediamine	122	Compound	Not	Detected.			
188 Benzal chloride	124	Compound	Not	Detected.			
189 Carbofuran phenol	164	Compound	Not	Detected.			

Compounds	QUANT SIG MASS					RESPONSE	CONCENTRATIONS	
		RT	EXP RT	REL RT	RT		ON-COLUMN (ug/ml)	FINAL ( ug/L)
=====	----	--	-----	-----	-----	-----	-----	-----
191 4,4'-Methylenebis(2-chloroani	231	Compound	Not	Detected.				
192 tris(2,3-Dibromopropyl)phos	201	Compound	Not	Detected.				
193 Methomyl	58	Compound	Not	Detected.				
166 Famphur	218	Compound	Not	Detected.				
178 Perylene	252	Compound	Not	Detected.				
194 Acrylamide	71	Compound	Not	Detected.				
195 Phthalic anhydride	76	Compound	Not	Detected.				
196 Phthalic acid	148	Compound	Not	Detected.				
17 Benzenethiol	110	Compound	Not	Detected.				
183 Hexachlorophene	196	Compound	Not	Detected.				
197 2-Ethoxyethanol	59	Compound	Not	Detected.				
201 Triethylphosphate	99	Compound	Not	Detected.				
207 2,3-Dichlorobenzeneamine	161	Compound	Not	Detected.				
202 Alachlor	188	Compound	Not	Detected.				

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INTERNAL STANDARD COMPOUNDS  
AREA AND RT SUMMARY

Instrument ID: Y.i	Calibration Date: 28-MAY-2004
Lab File ID: y1751.d	Calibration Time: 06:38
Lab Smp Id: GGQDN1AA	Client Smp ID: INTRA-LAB BLANK
Analysis Type: SV	Level: LOW
Quant Type: ISTD	Sample Type: WATER
Operator: todear	
Method File: /chem/Y.i/052804.b/8270C.m	
Misc Info: 4142151	

Test Mode:  
Use Last Continuing Calibrator.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
=====	=====	=====	=====	=====	=====
22 1,4-Dichlorobenze	123037	61518	246074	107902	-12.30
49 Naphthalene-d8	502806	251403	1005612	433813	-13.72
83 Acenaphthene-d10	302617	151308	605234	281037	-7.13
117 Phenanthrene-d10	510447	255224	1020894	500253	-2.00
142 Chrysene-d12	320588	160294	641176	353627	10.31
151 Perylene-d12	235620	117810	471240	276928	17.53

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
=====	=====	=====	=====	=====	=====
22 1,4-Dichlorobenze	5.82	5.32	6.32	5.81	-0.09
49 Naphthalene-d8	7.04	6.54	7.54	7.04	0.00
83 Acenaphthene-d10	8.76	8.26	9.26	8.75	-0.06
117 Phenanthrene-d10	10.02	9.52	10.52	10.02	0.00
142 Chrysene-d12	12.17	11.67	12.67	12.19	0.22
151 Perylene-d12	13.58	13.08	14.08	13.63	0.32

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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RECOVERY REPORT

Client Name:  
Sample Matrix: LIQUID  
Lab Smp Id: GGQDN1AA  
Level: LOW  
Data Type: MS DATA  
SpikeList File: 02H2O-DCS.spk  
Sublist File: HSLAP9CUST.sub  
Method File: /chem/Y.i/052804.b/8270C.m  
Misc Info: 4142151

Client SDG: D4E210000  
Fraction: SV  
Client Smp ID: INTRA-LAB BLANK  
Operator: todear  
SampleType: BLANK  
Quant Type: ISTD

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
\$ 36 Nitrobenzene-d5	100.000	70.8366	70.84	53-107
\$ 70 2-Fluorobiphenyl	100.000	57.6094	57.61	31-105
\$ 133 Terphenyl-d14	100.000	76.2736	76.27	21-125
\$ 10 2-Fluorophenol	150.000	116.643	77.76	32-116
\$ 14 Phenol-d5	150.000	116.320	77.55	40-111
\$ 103 2,4,6-Tribromophen	150.000	105.544	70.36	42-122
\$ 163 1,2-Dichlorobenzen	100.000	57.1121	57.11	20-130
\$ 162 2-Chlorophenol-d4	150.000	115.329	76.89	20-130

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TENTATIVELY IDENTIFIED COMPOUNDS

Client Name:	Client SDG: D4E210000
Lab Smp Id: GGQDN1AA	Client Smp ID: INTRA-LAB BLANK
Operator : todear	Sample Date: 19-MAY-2004
Sample Location: Generic Lab QC	Sample Point:
Sample Matrix: WATER	Date Received: 20-MAY-2004 00:00
Analysis Type: SV	Level: LOW

Number TICs found: 1

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
=====	=====	=====	=====	=====
1.	Unknown	12.160	6.36669	_J_

Data File: /chem/Y.i/052804.b/y1751.d

Date : 28-MAY-2004 09:14

Client ID: INTRA-LAB BLANK

Sample Info: GGQDN1AA,,D4E210000-151

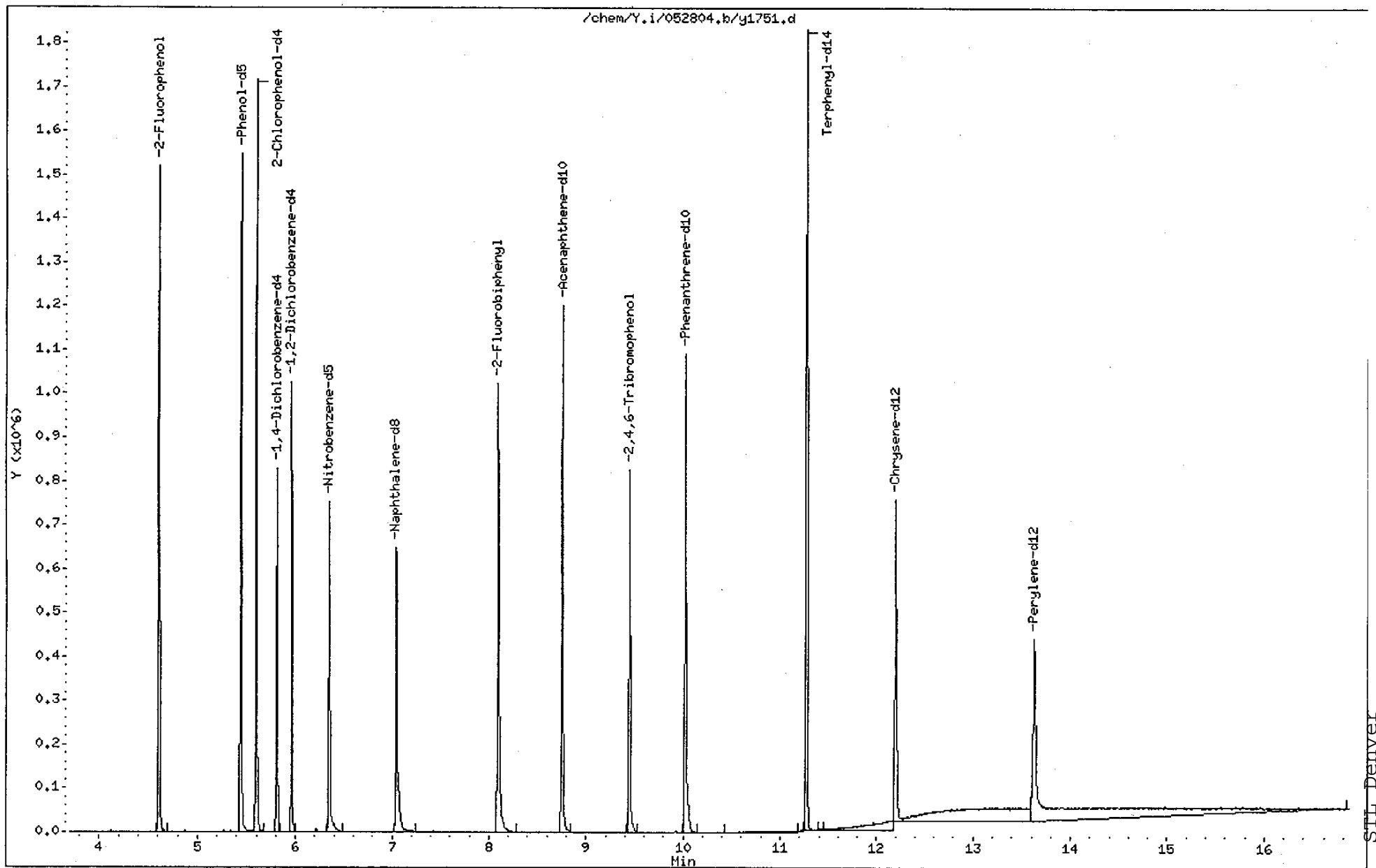
Volume Injected (uL): 0.5

Column phase: Rtx-5ms 30m 0.5um

Instrument: Y.i

Operator: todear

Column diameter: 0.25





Date : 28-MAY-2004 09:14

Client ID: INTRA-LAB BLANK

Instrument: Y.i

Sample Info: GGQDN1AA,,D4E210000-151

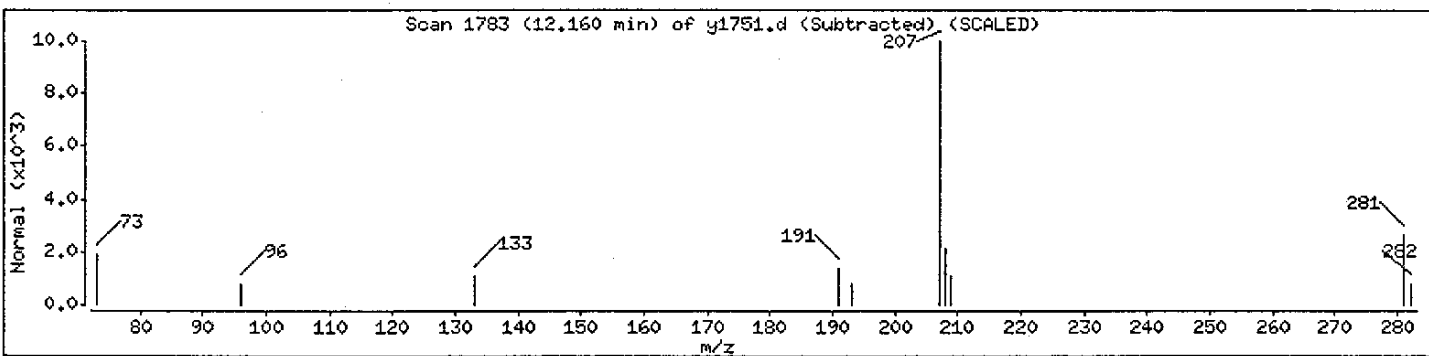
Volume Injected (uL): 0.5

Operator: todear

Column phase: Rtx-5ms 30m 0.5um

Column diameter: 0.25

Library Search Compound Match	CAS Number	Library	Entry	Quality	Formula	Weight
Unknown			0	0		0



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BNA ANALYSIS QUANTITATION REPORT

Data file : /chem/Y.i/052804.b/y1752.d  
Lab Smp Id: GGQDN1AC Client Smp ID: INTRA-LAB CHECK  
Inj Date : 28-MAY-2004 09:40  
Operator : todear Inst ID: Y.i  
Smp Info : GGQDN1AC,,D4E210000-151  
Misc Info : 4142151  
Comment : SOP#CORP-MS-0001DEN, revision1.1  
Method : /chem/Y.i/052804.b/8270C.m  
Meth Date : 28-May-2004 14:06 todear Quant Type: ISTD  
Cal Date : 26-MAY-2004 17:20 Cal File: y1684.d  
Als bottle: 9 QC Sample: LCS  
Dil Factor: 1.00000  
Integrator: HP RTE Compound Sublist: DCS.sub  
Target Version: 3.50  
Processing Host: chemsv03

Concentration Formula: Amt \* DF \* Vf/Vs \* CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vf	1000.00000	final volume at end of extraction (uL)
Vs	1000.00000	volume of sample extracted (mL)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG	CONCENTRATIONS						
		MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/ml)	FINAL ( ug/L)
=====	=====	=====	==	=====	=====	=====	=====	=====
* 22 1,4-Dichlorobenzene-d4	152	5.813	5.815	(1.000)	112088	40.0000		
* 49 Naphthalene-d8	136	7.042	7.044	(1.000)	459709	40.0000		
* 83 Acenaphthene-d10	164	8.754	8.757	(1.000)	278000	40.0000		
* 117 Phenanthrene-d10	188	10.016	10.018	(1.000)	502959	40.0000		
* 142 Chrysene-d12	240	12.168	12.165	(1.000)	358406	40.0000		
* 151 Perylene-d12	264	13.590	13.582	(1.000)	271352	40.0000		
\$ 36 Nitrobenzene-d5	82	6.344	6.352	(1.091)	260087	70.8652	70.8652	
\$ 70 2-Fluorobiphenyl	172	8.094	8.091	(0.925)	551198	69.0510	69.0510	
\$ 133 Terphenyl-d14	244	11.250	11.247	(0.925)	584972	75.4928	75.4928	
\$ 10 2-Fluorophenol	112	4.610	4.613	(0.793)	387023	114.897	114.897	
\$ 14 Phenol-d5	99	5.448	5.450	(0.937)	478115	114.678	114.678	
\$ 103 2,4,6-Tribromophenol	330	9.441	9.449	(0.943)	103765	111.546	111.546	
\$ 163 1,2-Dichlorobenzene-d4	152	5.963	5.965	(1.026)	155178	66.9274	66.9274	
\$ 162 2-Chlorophenol-d4	132	5.603	5.606	(0.964)	407507	111.704	111.704	
15 Phenol	94	5.464	5.466	(0.940)	504975	115.097	115.097	

Compounds	QUANT SIG					CONCENTRATIONS	
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/ml)	FINAL ( ug/L)
=====	====	==	=====	=====	=====	=====	=====
20 2-Chlorophenol	128	5.619	5.622	(0.967)	440911	119.463	119.463
23 1,4-Dichlorobenzene	146	5.829	5.831	(1.003)	298999	72.6798	72.6798
30 N-nitrosodi-n-propylamine	70	6.167	6.175	(1.061)	165970	69.4630	69.4630
47 1,2,4-Trichlorobenzene	180	6.977	6.980	(0.991)	245906	71.1856	71.1856
59 4-Chloro-3-methylphenol	107	7.568	7.576	(1.075)	364568	115.374	115.374
84 Acenaphthene	153	8.781	8.784	(1.003)	525131	72.2802	72.2802
86 4-Nitrophenol	109	8.856	8.859	(1.012)	117159	114.181	114.181
87 2,4-Dinitrotoluene	165	8.921	8.923	(1.019)	179760	82.4974	82.4974
113 Pentachlorophenol	266	9.855	9.857	(0.984)	148645	131.571	131.571
132 Pyrene	202	11.180	11.178	(0.919)	851683	71.7683	71.7682

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INTERNAL STANDARD COMPOUNDS  
AREA AND RT SUMMARY

Instrument ID: Y.i	Calibration Date: 28-MAY-2004
Lab File ID: y1752.d	Calibration Time: 06:38
Lab Smp Id: GGQDN1AC	Client Smp ID: INTRA-LAB CHECK
Analysis Type: SV	Level: LOW
Quant Type: ISTD	Sample Type: WATER
Operator: todear	
Method File: /chem/Y.i/052804.b/8270C.m	
Misc Info: 4142151	

Test Mode: Use Last Continuing Calibrator.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
22 1,4-Dichlorobenze	123037	61518	246074	112088	-8.90
49 Naphthalene-d8	502806	251403	1005612	459709	-8.57
83 Acenaphthene-d10	302617	151308	605234	278000	-8.13
117 Phenanthrene-d10	510447	255224	1020894	502959	-1.47
142 Chrysene-d12	320588	160294	641176	358406	11.80
151 Perylene-d12	235620	117810	471240	271352	15.17

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
22 1,4-Dichlorobenze	5.82	5.32	6.32	5.81	-0.04
49 Naphthalene-d8	7.04	6.54	7.54	7.04	-0.04
83 Acenaphthene-d10	8.76	8.26	9.26	8.75	-0.03
117 Phenanthrene-d10	10.02	9.52	10.52	10.02	-0.03
142 Chrysene-d12	12.17	11.67	12.67	12.17	0.02
151 Perylene-d12	13.58	13.08	14.08	13.59	0.06

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.

STL-Denver

RECOVERY REPORT

Client Name:  
Sample Matrix: LIQUID  
Lab Smp Id: GGQDN1AC  
Level: LOW  
Data Type: MS DATA  
SpikeList File: 02H2O-DCS.spk  
Sublist File: DCS.sub  
Method File: /chem/Y.i/052804.b/8270C.m  
Misc Info: 4142151

Client SDG: D4E210000  
Fraction: SV  
Client Smp ID: INTRA-LAB CHECK  
Operator: todear  
SampleType: LCS  
Quant Type: ISTD

SPIKE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
15 Phenol	150.000	115.097	76.73	56-106
20 2-Chlorophenol	150.000	119.463	79.64	59-105
23 1,4-Dichlorobenzen	100.000	72.6798	72.68	31-98
30 N-nitrosodi-n-prop	100.000	69.4630	69.46	51-99
47 1,2,4-Trichloroben	100.000	71.1856	71.19	36-99
59 4-Chloro-3-methylp	150.000	115.374	76.92	59-106
84 Acenaphthene	100.000	72.2802	72.28	55-97
86 4-Nitrophenol	150.000	114.181	76.12	43-118
87 2,4-Dinitrotoluene	100.000	82.4974	82.50	57-113
113 Pentachlorophenol	150.000	131.571	87.71	48-114
132 Pyrene	100.000	71.7682	71.77	51-103

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
\$ 36 Nitrobenzene-d5	100.000	70.8652	70.87	58-108
\$ 70 2-Fluorobiphenyl	100.000	69.0510	69.05	53-97
\$ 133 Terphenyl-d14	100.000	75.4928	75.49	55-109
\$ 10 2-Fluorophenol	150.000	114.897	76.60	54-105
\$ 14 Phenol-d5	150.000	114.678	76.45	55-106
\$ 103 2,4,6-Tribromophen	150.000	111.546	74.36	62-113
\$ 163 1,2-Dichlorobenzen	100.000	66.9274	66.93	20-130
\$ 162 2-Chlorophenol-d4	150.000	111.704	74.47	20-130

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TENTATIVELY IDENTIFIED COMPOUNDS

Client Name:	Client SDG: D4E210000
Lab Smp Id: GGQDN1AC	Client Smp ID: INTRA-LAB CHECK
Operator : todear	Sample Date: 19-MAY-2004
Sample Location: Generic Lab QC	Sample Point:
Sample Matrix: WATER	Date Received: 20-MAY-2004 00:00
Analysis Type: SV	Level: LOW

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
=====	=====	=====	=====	=====

Data File: /chem/Y.i/052804.b/y1752.d

Date : 28-MAY-2004 09:40

Client ID: INTRA-LAB CHECK

Sample Info: GGQDM1AC,,D4E210000-151

Volume Injected (uL): 0.5

Column phase: Rtx-5ms 30m 0.5um

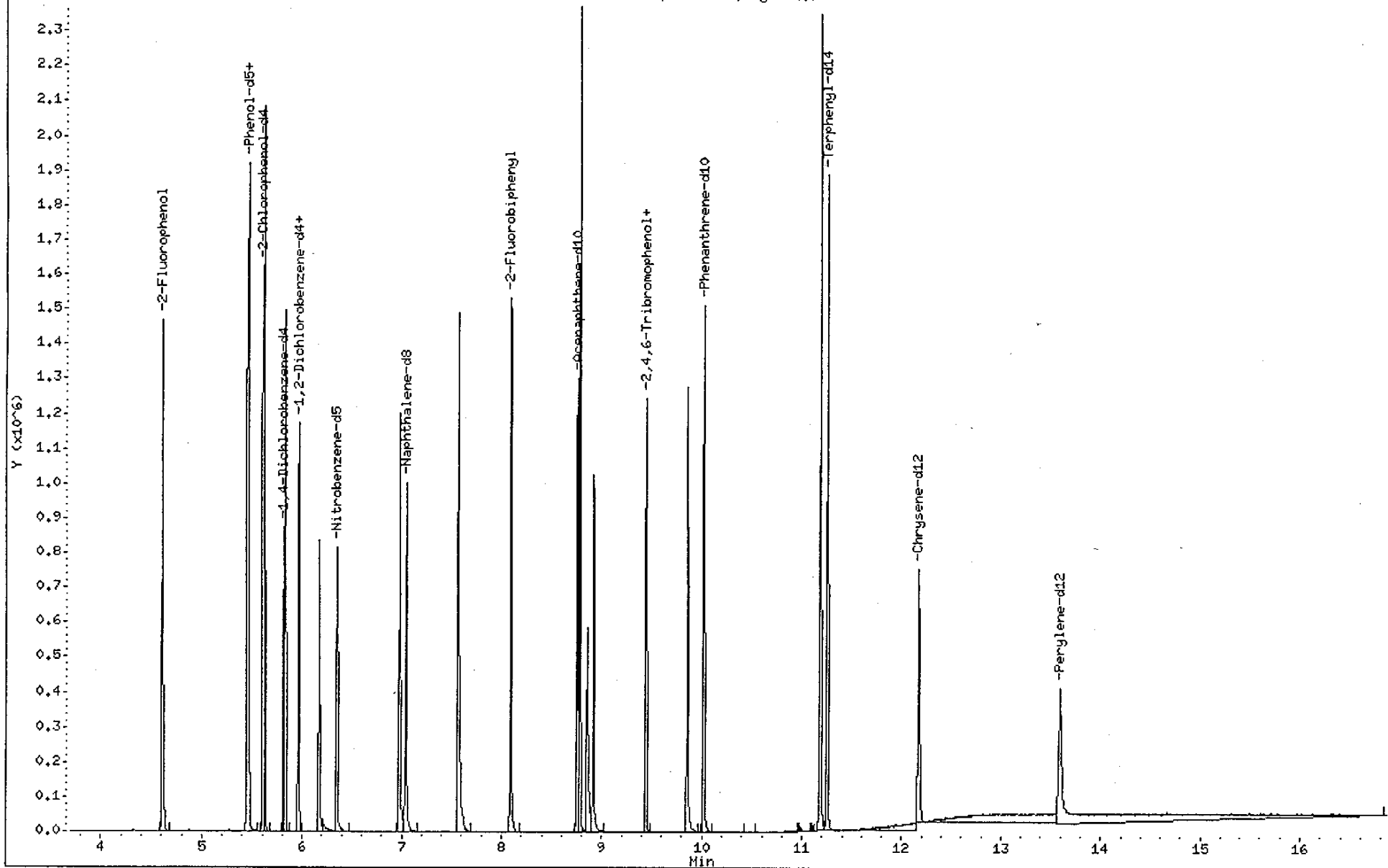
Instrument: Y.i

Operator: todear

Column diameter: 0.25

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/chem/Y.i/052804.b/y1752.d



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BNA ANALYSIS QUANTITATION REPORT

Data file : /chem/Y.i/052804.b/y1753.d  
Lab Smp Id: GGQDN1AD Client Smp ID: INTRA-LAB CHECK  
Inj Date : 28-MAY-2004 10:07  
Operator : todear Inst ID: Y.i  
Smp Info : GGQDN1AD,,D4E210000-151  
Misc Info : 4142151  
Comment : SOP#CORP-MS-0001DEN, revision1.1  
Method : /chem/Y.i/052804.b/8270C.m  
Meth Date : 28-May-2004 14:06 todear Quant Type: ISTD  
Cal Date : 26-MAY-2004 17:20 Cal File: y1684.d  
Als bottle: 10 QC Sample: LCSD  
Dil Factor: 1.00000  
Integrator: HP RTE Compound Sublist: DCS.sub  
Target Version: 3.50  
Processing Host: chemsv03

Concentration Formula: Amt \* DF \* Vf/Vs \* CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vf	1000.00000	final volume at end of extraction (uL)
Vs	1000.00000	volume of sample extracted (mL)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG					CONCENTRATIONS	
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/ml)	FINAL ( ug/L)
* 22 1,4-Dichlorobenzene-d4	152	5.810	5.815	(1.000)	114664	40.0000	
* 49 Naphthalene-d8	136	7.045	7.044	(1.000)	464987	40.0000	
* 83 Acenaphthene-d10	164	8.752	8.757	(1.000)	279575	40.0000	
* 117 Phenanthrene-d10	188	10.019	10.018	(1.000)	512181	40.0000	
* 142 Chrysene-d12	240	12.177	12.165	(1.000)	352955	40.0000	
* 151 Perylene-d12	264	13.604	13.582	(1.000)	264130	40.0000	
\$ 36 Nitrobenzene-d5	82	6.347	6.352	(1.092)	256246	68.2501	68.2501
\$ 70 2-Fluorobiphenyl	172	8.092	8.091	(0.925)	534523	66.5848	66.5848
\$ 133 Terphenyl-d14	244	11.259	11.247	(0.925)	597982	78.3637	78.3637
\$ 10 2-Fluorophenol	112	4.608	4.613	(0.793)	378616	109.876	109.876
\$ 14 Phenol-d5	99	5.445	5.450	(0.937)	469204	110.012	110.012
\$ 103 2,4,6-Tribromophenol	330	9.444	9.449	(0.943)	105597	111.471	111.471
\$ 163 1,2-Dichlorobenzene-d4	152	5.961	5.965	(1.026)	137097	57.8007	57.8007
\$ 162 2-Chlorophenol-d4	132	5.606	5.606	(0.965)	402715	107.910	107.910
15 Phenol	94	5.462	5.466	(0.940)	489546	109.074	109.074



Compounds	QUANT SIG						CONCENTRATIONS	
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN	FINAL	
=====	=====	==	=====	=====	=====	(ug/ml)	( ug/L)	
20 2-Chlorophenol	128	5.623	5.622	{0.968}	429290	113.701	113.701	
23 1,4-Dichlorobenzene	146	5.832	5.831	{1.004}	284838	67.6821	67.6821	
30 N-nitrosodi-n-propylamine	70	6.170	6.175	{1.062}	175175	71.6685	71.6685	
47 1,2,4-Trichlorobenzene	180	6.975	6.980	{0.990}	239796	68.6289	68.6289	
59 4-Chloro-3-methylphenol	107	7.566	7.576	{1.074}	369314	115.549	115.549	
84 Acenaphthene	153	8.784	8.784	{1.004}	531463	72.7396	72.7396	
86 4-Nitrophenol	109	8.854	8.859	{1.012}	125535	121.655	121.655	
87 2,4-Dinitrotoluene	165	8.918	8.923	{1.019}	187983	85.7852	85.7852	
113 Pentachlorophenol	266	9.852	9.857	{0.983}	151780	131.927	131.927	
132 Pyrene	202	11.184	11.178	{0.918}	879813	75.2837	75.2836	

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INTERNAL STANDARD COMPOUNDS  
AREA AND RT SUMMARY

Instrument ID: Y.i	Calibration Date: 28-MAY-2004
Lab File ID: y1753.d	Calibration Time: 06:38
Lab Smp Id: GGQDN1AD	Client Smp ID: INTRA-LAB CHECK
Analysis Type: SV	Level: LOW
Quant Type: ISTD	Sample Type: WATER
Operator: todear	
Method File: /chem/Y.i/052804.b/8270C.m	
Misc Info: 4142151	

Test Mode:  
Use Last Continuing Calibrator.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
22 1,4-Dichlorobenze	123037	61518	246074	114664	-6.81
49 Naphthalene-d8	502806	251403	1005612	464987	-7.52
83 Acenaphthene-d10	302617	151308	605234	279575	-7.61
117 Phenanthrene-d10	510447	255224	1020894	512181	0.34
142 Chrysene-d12	320588	160294	641176	352955	10.10
151 Perylene-d12	235620	117810	471240	264130	12.10

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
22 1,4-Dichlorobenze	5.82	5.32	6.32	5.81	-0.08
49 Naphthalene-d8	7.04	6.54	7.54	7.05	0.01
83 Acenaphthene-d10	8.76	8.26	9.26	8.75	-0.05
117 Phenanthrene-d10	10.02	9.52	10.52	10.02	0.01
142 Chrysene-d12	12.17	11.67	12.67	12.18	0.09
151 Perylene-d12	13.58	13.08	14.08	13.60	0.16

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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RECOVERY REPORT

Client Name:	Client SDG: D4E210000
Sample Matrix: LIQUID	Fraction: SV
Lab Smp Id: GGQDN1AD	Client Smp ID: INTRA-LAB CHECK
Level: LOW	Operator: todear
Data Type: MS DATA	SampleType: LCSD
SpikeList File: 02H2O-DCS.spk	Quant Type: ISTD
Sublist File: DCS.sub	
Method File: /chem/Y.i/052804.b/8270C.m	
Misc Info: 4142151	

SPIKE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
15 Phenol	150.000	109.074	72.72	56-106
20 2-Chlorophenol	150.000	113.701	75.80	59-105
23 1,4-Dichlorobenzen	100.000	67.6821	67.68	31-98
30 N-nitrosodi-n-prop	100.000	71.6685	71.67	51-99
47 1,2,4-Trichloroben	100.000	68.6289	68.63	36-99
59 4-Chloro-3-methylp	150.000	115.549	77.03	59-106
84 Acenaphthene	100.000	72.7396	72.74	55-97
86 4-Nitrophenol	150.000	121.655	81.10	43-118
87 2,4-Dinitrotoluene	100.000	85.7852	85.79	57-113
113 Pentachlorophenol	150.000	131.927	87.95	48-114
132 Pyrene	100.000	75.2836	75.28	51-103

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
\$ 36 Nitrobenzene-d5	100.000	68.2501	68.25	58-108
\$ 70 2-Fluorobiphenyl	100.000	66.5848	66.58	53-97
\$ 133 Terphenyl-d14	100.000	78.3637	78.36	55-109
\$ 10 2-Fluorophenol	150.000	109.876	73.25	54-105
\$ 14 Phenol-d5	150.000	110.012	73.34	55-106
\$ 103 2,4,6-Tribromophen	150.000	111.471	74.31	62-113
\$ 163 1,2-Dichlorobenzen	100.000	57.8007	57.80	20-130
\$ 162 2-Chlorophenol-d4	150.000	107.910	71.94	20-130

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TENTATIVELY IDENTIFIED COMPOUNDS

Client Name:	Client SDG: D4E210000
Lab Smp Id: GGQDN1AD	Client Smp ID: INTRA-LAB CHECK
Operator : todear	Sample Date: 19-MAY-2004
Sample Location: Generic Lab QC	Sample Point:
Sample Matrix: WATER	Date Received: 20-MAY-2004 00:00
Analysis Type: SV	Level: LOW

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
=====	=====	=====	=====	=====

Data File: /chem/Y.i/052804.b/y1753.d

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Date : 28-MAY-2004 10:07

Client ID: INTRA-LAB CHECK

Instrument: Y.i

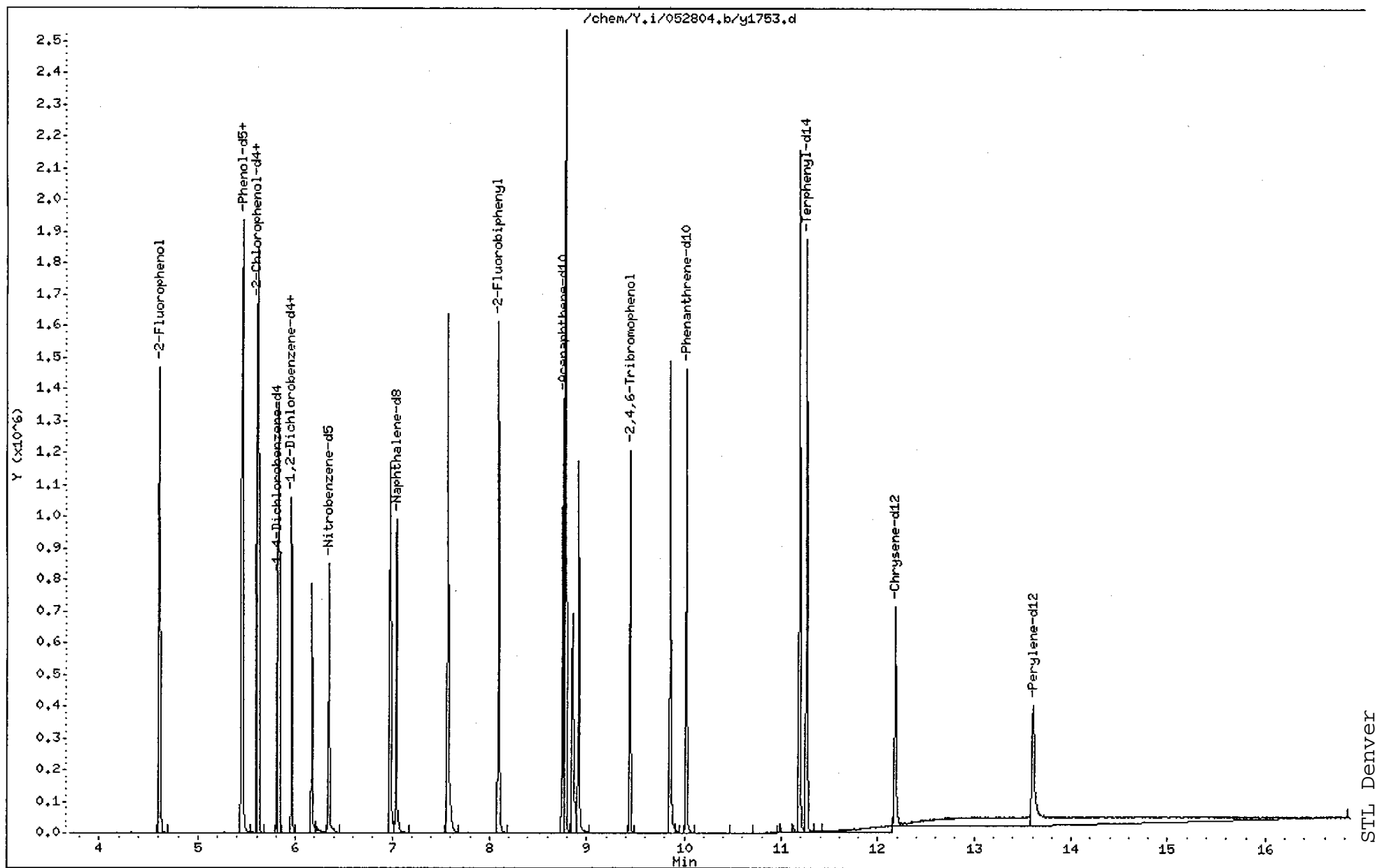
Sample Info: GGQDN1AD,,D4E210000-151

Volume Injected (uL): 0.5

Operator: todear

Column phase: Rtx-5ms 30m 0.5um

Column diameter: 0.25



STL-Denver

*Review  
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BNA ANALYSIS QUANTITATION REPORT

Data file : /chem/Y.i/052804.b/y1756.d  
Lab Smp Id: GGJX41AC Client Smp ID: 01-MW-01  
Inj Date : 28-MAY-2004 11:38  
Operator : todear Inst ID: Y.i  
Smp Info : GGJX41AC,,D4E190262-001  
Misc Info : 4142151  
Comment : SOP#CORP-MS-0001DEN, revision1.1  
Method : /chem/Y.i/052804.b/8270C.m  
Meth Date : 28-May-2004 14:06 todear Quant Type: ISTD  
Cal Date : 26-MAY-2004 17:20 Cal File: y1684.d  
Als bottle: 13  
Dil Factor: 1.00000  
Integrator: HP RTE Compound Sublist: HSL+AP9.sub  
Target Version: 3.50  
Processing Host: chemsv03

Concentration Formula: Amt \* DF \* Vf/Vs \* CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vf	1000.00000	final volume at end of extraction (uL)
Vs	953.00000	volume of sample extracted (mL)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG							CONCENTRATIONS	
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN	FINAL	(ug/ml)	( ug/L)
=====									
* 22 1,4-Dichlorobenzene-d4	152	5.811	5.815	(1.000)	119318	40.0000			
* 49 Naphthalene-d8	136	7.045	7.044	(1.000)	470271	40.0000			
* 83 Acenaphthene-d10	164	8.752	8.757	(1.000)	304241	40.0000			
* 117 Phenanthrene-d10	188	10.019	10.018	(1.000)	554222	40.0000			
* 142 Chrysene-d12	240	12.182	12.165	(1.000)	395133	40.0000			
* 151 Perylene-d12	264	13.604	13.582	(1.000)	308291	40.0000			
\$ 36 Nitrobenzene-d5	82	6.347	6.352	(1.092)	193157	49.4399	51.8782(R)		
\$ 70 2-Fluorobiphenyl	172	8.092	8.091	(0.925)	432570	49.5160	51.9580		
\$ 133 Terphenyl-d14	244	11.259	11.247	(0.924)	531418	62.2070	65.2749		
\$ 10 2-Fluorophenol	112	4.608	4.613	(0.793)	264829	73.8570	77.4995		
\$ 14 Phenol-d5	99	5.446	5.450	(0.937)	333911	75.2368	78.9474		
\$ 103 2,4,6-Tribromophenol	330	9.444	9.449	(0.943)	90833	88.6124	92.9826		
\$ 163 1,2-Dichlorobenzene-d4	152	5.961	5.965	(1.026)	116824	47.3324	49.6668		
\$ 162 2-Chlorophenol-d4	132	5.601	5.606	(0.964)	288813	74.3708	78.0386		
4 N-Nitrosodimethylamine	74	Compound Not Detected.							

Compounds	QUANT SIG MASS					CONCENTRATIONS	
		RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/ml)	FINAL ( ug/L)
=====	----	--	-----	-----	-----	-----	-----
5 Pyridine	79	Compound	Not	Detected.			
7 2-Picoline	93	Compound	Not	Detected.			
8 N-Nitrosomethylethylamine	88	Compound	Not	Detected.			
9 Methyl methanesulfonate	80	Compound	Not	Detected.			
11 N-Nitrosodiethylamine	102	Compound	Not	Detected.			
13 Ethyl methanesulfonate	79	Compound	Not	Detected.			
15 Phenol	94	Compound	Not	Detected.			
16 Aniline	93	Compound	Not	Detected.			
19 Pentachloroethane	117	Compound	Not	Detected.			
18 Bis(2-chloroethyl) ether	93	Compound	Not	Detected.			
20 2-Chlorophenol	128	Compound	Not	Detected.			
21 1,3-Dichlorobenzene	146	Compound	Not	Detected.			
23 1,4-Dichlorobenzene	146	Compound	Not	Detected.			
25 1,2-Dichlorobenzene	146	Compound	Not	Detected.			
24 Benzyl alcohol	108	Compound	Not	Detected.			
26 2-Methylphenol	108	Compound	Not	Detected.			
28 2,2'-oxybis(1-chloropropane)	45	Compound	Not	Detected.			
29 4-Methylphenol	108	Compound	Not	Detected.			
31 N-Nitrosopyrrolidine	100	Compound	Not	Detected.			
32 Acetophenone	105	Compound	Not	Detected.			
34 N-Nitrosomorpholine	116	Compound	Not	Detected.			
35 o-Toluidine	106	Compound	Not	Detected.			
30 N-nitrosodi-n-propylamine	70	Compound	Not	Detected.			
33 Hexachloroethane	117	Compound	Not	Detected.			
37 Nitrobenzene	77	Compound	Not	Detected.			
39 N-Nitrosopiperidine	114	Compound	Not	Detected.			
40 Isophorone	82	Compound	Not	Detected.			
41 2-Nitrophenol	139	Compound	Not	Detected.			
44 O,O,O-Triethyl phosphorothio	198	Compound	Not	Detected.			
42 2,4-Dimethylphenol	107	Compound	Not	Detected.			
43 Bis(2-chloroethoxy)methane	93	Compound	Not	Detected.			
45 Benzoic acid	122	Compound	Not	Detected.			
48 a,a-Dimethylphenethylamine	58	Compound	Not	Detected.			
46 2,4-Dichlorophenol	162	Compound	Not	Detected.			
47 1,2,4-Trichlorobenzene	180	Compound	Not	Detected.			
53 2,6-Dichlorophenol	162	Compound	Not	Detected.			
54 Hexachloropropene	213	Compound	Not	Detected.			
50 Naphthalene	128	Compound	Not	Detected.			
51 4-Chloroaniline	127	Compound	Not	Detected.			
52 Hexachlorobutadiene	225	Compound	Not	Detected.			
57 N-Nitrosodi-n-butylamine	84	Compound	Not	Detected.			
58 p-Phenylenediamine	108	Compound	Not	Detected.			
61 Safrole	162	Compound	Not	Detected.			
59 4-Chloro-3-methylphenol	107	Compound	Not	Detected.			
62 2-Methylnaphthalene	142	Compound	Not	Detected.			
64 1-Methylnaphthalene	142	Compound	Not	Detected.			
65 1,2,4,5-Tetrachlorobenzene	216	Compound	Not	Detected.			

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/ml)	FINAL ( ug/L)
=====	=====	==	=====	=====	=====	=====	=====
63 Hexachlorocyclopentadiene	237		Compound	Not	Detected.		
66 Isosafrole (#1)	162		Compound	Not	Detected.		
72 Isosafrole (#2)	104		Compound	Not	Detected.		
73 1-Chloronaphthalene	162		Compound	Not	Detected.		
71 2-Chloronaphthalene	162		Compound	Not	Detected.		
67 2,4,6-Trichlorophenol	196		Compound	Not	Detected.		
68 2,4,5-Trichlorophenol	196		Compound	Not	Detected.		
75 1,4-Naphthoquinone	158		Compound	Not	Detected.		
74 2-Nitroaniline	65		Compound	Not	Detected.		
78 1,4-Dinitrobenzene	168		Compound	Not	Detected.		
80 1,3-Dinitrobenzene	168		Compound	Not	Detected.		
76 Dimethyl phthalate	163		Compound	Not	Detected.		
79 2,6-Dinitrotoluene	165		Compound	Not	Detected.		
81 Acenaphthylene	152		Compound	Not	Detected.		
82 3-Nitroaniline	138		Compound	Not	Detected.		
84 Acenaphthene	153		Compound	Not	Detected.		
89 Pentachlorobenzene	250		Compound	Not	Detected.		
85 2,4-Dinitrophenol	184		Compound	Not	Detected.		
86 4-Nitrophenol	109		Compound	Not	Detected.		
87 2,4-Dinitrotoluene	165		Compound	Not	Detected.		
88 Dibenzofuran	168		Compound	Not	Detected.		
90 1-Naphthylamine	143		Compound	Not	Detected.		
91 2,3,4,6-Tetrachlorophenol	232		Compound	Not	Detected.		
92 2-Naphthylamine	143		Compound	Not	Detected.		
98 Thionazin	97		Compound	Not	Detected.		
93 Diethyl phthalate	149		Compound	Not	Detected.		
100 5-Nitro-o-toluidine	152		Compound	Not	Detected.		
96 Fluorene	166		Compound	Not	Detected.		
95 4-Chlorophenyl phenyl ether	204		Compound	Not	Detected.		
97 4-Nitroaniline	138		Compound	Not	Detected.		
99 4,6-Dinitro-2-methylphenol	198		Compound	Not	Detected.		
101 N-nitrosodiphenylamine	169		Compound	Not	Detected.		
182 Diphenylamine	169		Compound	Not	Detected.		
102 Azobenzene	77		Compound	Not	Detected.		
104 Sulfotepp	97		Compound	Not	Detected.		
105 1,3,5-Trinitrobenzene	213		Compound	Not	Detected.		
107 Phorate	121		Compound	Not	Detected.		
109 Phenacetin	108		Compound	Not	Detected.		
106 Diallate (#1)	86		Compound	Not	Detected.		
111 Diallate (#2)	86		Compound	Not	Detected.		
108 4-Bromophenyl phenyl ether	248		Compound	Not	Detected.		
110 Hexachlorobenzene	284		Compound	Not	Detected.		
112 Dimethoate	87		Compound	Not	Detected.		
114 4-Aminobiphenyl	169		Compound	Not	Detected.		
115 Pentachloronitrobenzene	237		Compound	Not	Detected.		
116 Pronamide	173		Compound	Not	Detected.		
113 Pentachlorophenol	266		Compound	Not	Detected.		



Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN	FINAL
	MASS					(ug/ml)	( ug/L)
=====	=====	==	=====	=====	=====	=====	=====
120 2-secbutyl-4,6-dinitropheno	211		Compound	Not Detected.			
121 Disulfoton	88		Compound	Not Detected.			
118 Phenanthrene	178		Compound	Not Detected.			
122 Anthracene	178		Compound	Not Detected.			
123 Carbazole	167		Compound	Not Detected.			
124 Methyl parathion	109		Compound	Not Detected.			
125 Di-n-butyl phthalate	149		Compound	Not Detected.			
126 Parathion	109		Compound	Not Detected.			
127 4-Nitroquinoline-1-oxide	190		Compound	Not Detected.			
128 Methapyrilene	97		Compound	Not Detected.			
129 Isodrin	193		Compound	Not Detected.			
130 Fluoranthene	202		Compound	Not Detected.			
131 Benzidine	184		Compound	Not Detected.			
132 Pyrene	202		Compound	Not Detected.			
134 Aramite (#1)	185		Compound	Not Detected.			
135 Aramite (#2)	185		Compound	Not Detected.			
136 p-Dimethylaminoazobenzene	120		Compound	Not Detected.			
138 3,3'-Dimethylbenzidine	212		Compound	Not Detected.			
137 Butyl benzyl phthalate	149		Compound	Not Detected.			
139 2-Acetylaminofluorene	181		Compound	Not Detected.			
140 3 3'-Dichlorobenzidine	252		Compound	Not Detected.			
143 Bis(2-ethylhexyl) phthalate	149		Compound	Not Detected.			
141 Benzo(a)anthracene	228		Compound	Not Detected.			
144 Chrysene	228		Compound	Not Detected.			
146 Di-n-octyl phthalate	149		Compound	Not Detected.			
149 7,12-Dimethylbenz(a)anthrac	256		Compound	Not Detected.			
147 Benzo(b)fluoranthene	252		Compound	Not Detected.			
148 Benzo(k)fluoranthene	252		Compound	Not Detected.			
150 Benzo(a)pyrene	252		Compound	Not Detected.			
152 3-Methylcholanthrene	268		Compound	Not Detected.			
153 Dibenz(a,j)acridine	279		Compound	Not Detected.			
155 Indeno(1,2,3-cd)pyrene	276		Compound	Not Detected.			
156 Dibenz(a,h)anthracene	278		Compound	Not Detected.			
157 Benzo(g,h,i)perylene	276		Compound	Not Detected.			
M 1 Total Isosafrole	162		Compound	Not Detected.			
M 2 Total Diallate	86		Compound	Not Detected.			
M 3 Total Aramite	185		Compound	Not Detected.			
165 Chlorobenzilate	251		Compound	Not Detected.			
168 Methyl Styrene	118		Compound	Not Detected.			
27 1H-Indene	116		Compound	Not Detected.			
199 1,4-Dioxane	88	2.998	2.999	(0.516)	231826	168.466	176.775
175 Biphenyl	154		Compound	Not Detected.			
183 Hexachlorophene	196		Compound	Not Detected.			
204 Atrazine	200		Compound	Not Detected.			
205 Caprolactam	55		Compound	Not Detected.			
202 Alachlor	188		Compound	Not Detected.			

123-91-1

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

STL-Denver

INTERNAL STANDARD COMPOUNDS  
 AREA AND RT SUMMARY

Instrument ID: Y.i  
 Lab File ID: y1756.d  
 Lab Smp Id: GGJX41AC  
 Analysis Type: SV  
 Quant Type: ISTD  
 Operator: todear  
 Method File: /chem/Y.i/052804.b/8270C.m  
 Misc Info: 4142151

Calibration Date: 28-MAY-2004  
 Calibration Time: 06:38  
 Client Smp ID: 01-MW-01  
 Level: LOW  
 Sample Type: WATER

Test Mode:  
 Use Last Continuing Calibrator.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
22 1,4-Dichlorobenze	123037	61518	246074	119318	-3.02
49 Naphthalene-d8	502806	251403	1005612	470271	-6.47
83 Acenaphthene-d10	302617	151308	605234	304241	0.54
117 Phenanthrene-d10	510447	255224	1020894	554222	8.58
142 Chrysene-d12	320588	160294	641176	395133	23.25
151 Perylene-d12	235620	117810	471240	308291	30.84

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
22 1,4-Dichlorobenze	5.82	5.32	6.32	5.81	-0.08
49 Naphthalene-d8	7.04	6.54	7.54	7.05	0.01
83 Acenaphthene-d10	8.76	8.26	9.26	8.75	-0.05
117 Phenanthrene-d10	10.02	9.52	10.52	10.02	0.01
142 Chrysene-d12	12.17	11.67	12.67	12.18	0.14
151 Perylene-d12	13.58	13.08	14.08	13.60	0.16

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.

STL-Denver

RECOVERY REPORT

Client Name: Cabrera Services

Sample Matrix: LIQUID

Lab Smp Id: GGJX41AC

Level: LOW

Data Type: MS DATA

SpikeList File: 02H2O-DCS.spk

Sublist File: HSL+AP9.sub

Method File: /chem/Y.i/052804.b/8270C.m

Misc Info: 4142151

Client SDG: D4E190262

Fraction: SV

Client Smp ID: 01-MW-01

Operator: todear

SampleType: SAMPLE

Quant Type: ISTD

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
\$ 36 Nitrobenzene-d5	104.932	51.8782	49.44*	53-107
\$ 70 2-Fluorobiphenyl	104.932	51.9580	49.52	31-105
\$ 133 Terphenyl-d14	104.932	65.2749	62.21	21-125
\$ 10 2-Fluorophenol	157.398	77.4995	49.24	32-116
\$ 14 Phenol-d5	157.398	78.9474	50.16	40-111
\$ 103 2,4,6-Tribromophen	157.398	92.9826	59.07	42-122
\$ 163 1,2-Dichlorobenzen	104.932	49.6668	47.33	20-130
\$ 162 2-Chlorophenol-d4	157.398	78.0386	49.58	20-130

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TENTATIVELY IDENTIFIED COMPOUNDS

Client Name: Cabrera Services	Client SDG: D4E190262
Lab Smp Id: GGJX41AC	Client Smp ID: 01-MW-01
Operator : todear	Sample Date: 18-MAY-2004
Sample Location: USDA National Disease Center	Sample Point: e Center
Sample Matrix: WATER	Date Received: 19-MAY-2004 00:00
Analysis Type: SV	Level: LOW

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
=====	=====	=====	=====	=====

Data File: /chem/Y.i/052804.b/y1756.d

Date : 28-MAY-2004 11:38

Client ID: 01-MW-01

Sample Info: GCJX41AC,,D4E190262-001

Volume Injected (uL): 0,5

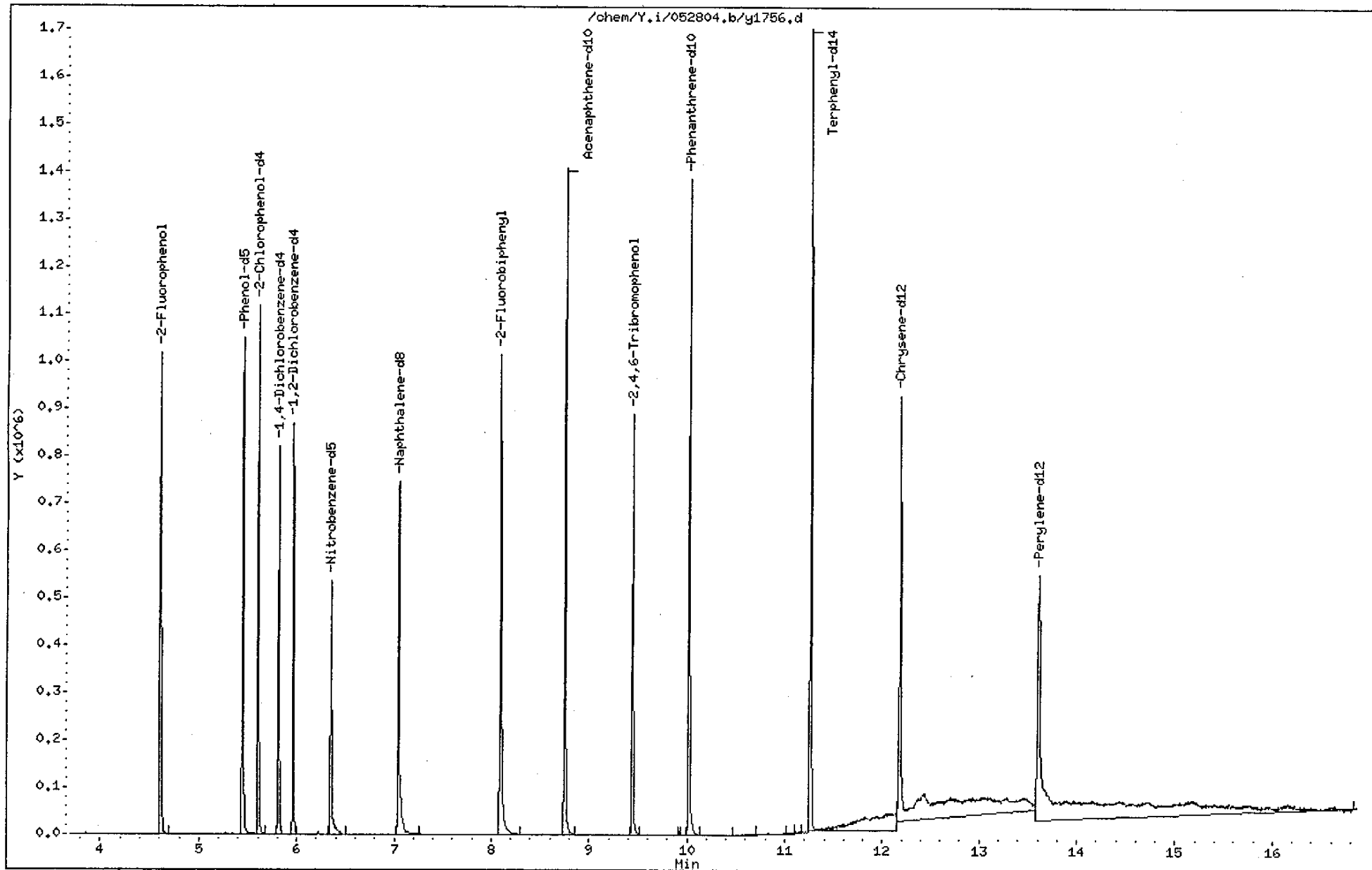
Column phase: Rtx-5ms 30m 0,5um

Instrument: Y.i

Operator: todear

Column diameter: 0,25

Page 9



Date : 28-MAY-2004 11:38

Client ID: 01-MW-01

Instrument: Y.i

Sample Info: GGJX41AC,,D4E190262-001

Volume Injected (uL): 0.5

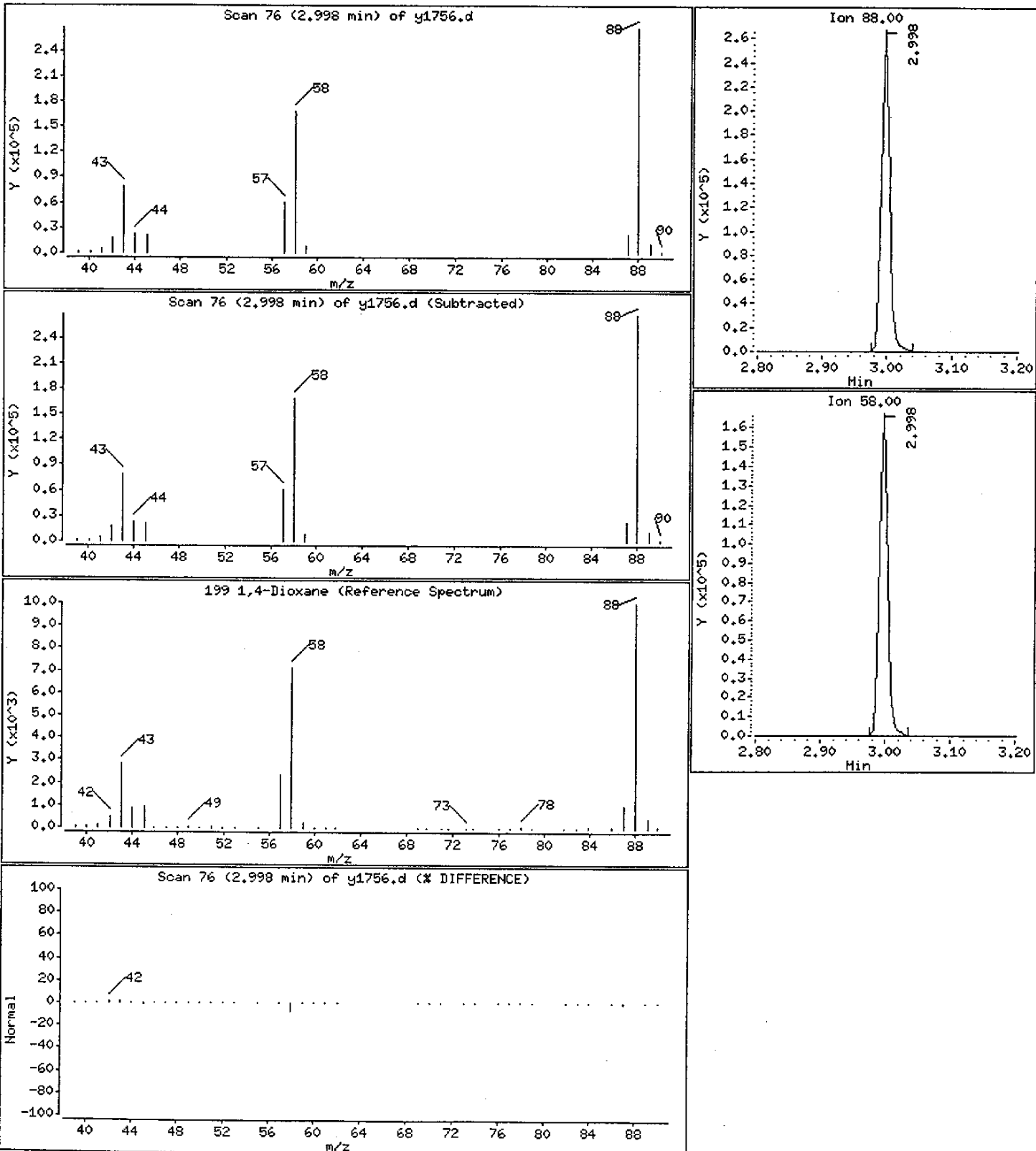
Operator: todear

Column phase: Rtx-5ms 30m 0.5um

Column diameter: 0.25

199 1,4-Dioxane

Concentration: 176.775 ug/L



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BNA ANALYSIS QUANTITATION REPORT

Data file : /chem/Y.i/052804.b/y1757.d  
Lab Smp Id: GGJX61AC Client Smp ID: 01-MW-08  
Inj Date : 28-MAY-2004 12:04  
Operator : todear Inst ID: Y.i  
Smp Info : GGJX61AC,,D4E190262-002  
Misc Info : 4142151  
Comment : SOP#CORP-MS-0001DEN, revision1.1  
Method : /chem/Y.i/052804.b/8270C.m  
Meth Date : 28-May-2004 14:06 todear Quant Type: ISTD  
Cal Date : 26-MAY-2004 17:20 Cal File: y1684.d  
Als bottle: 14  
Dil Factor: 1.00000  
Integrator: HP RTE Compound Sublist: HSL+AP9.sub  
Target Version: 3.50  
Processing Host: chemsv03

Concentration Formula: Amt \* DF \* Vf/Vs \* CpndVariable

Name	Value	Description
DF	1.00000	Dilution Factor
Vf	1000.00000	final volume at end of extraction (uL)
Vs	906.00000	volume of sample extracted (mL)

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG					CONCENTRATIONS	
	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/ml)	FINAL ( ug/L)
* 22 1,4-Dichlorobenzene-d4	152	5.816	5.815	(1.000)	124309	40.0000	
* 49 Naphthalene-d8	136	7.045	7.044	(1.000)	504463	40.0000	
* 83 Acenaphthene-d10	164	8.752	8.757	(1.000)	314774	40.0000	
* 117 Phenanthrene-d10	188	10.019	10.018	(1.000)	569718	40.0000	
* 142 Chrysene-d12	240	12.182	12.165	(1.000)	417003	40.0000	
* 151 Perylene-d12	264	13.610	13.582	(1.000)	325138	40.0000	
\$ 36 Nitrobenzene-d5	82	6.347	6.352	(1.091)	255637	62.8050	69.3212
\$ 70 2-Fluorobiphenyl	172	8.092	8.091	(0.925)	521253	57.6709	63.6544
\$ 133 Terphenyl-d14	244	11.258	11.247	(0.924)	591025	65.5560	72.3576
\$ 10 2-Fluorophenol	112	4.608	4.613	(0.792)	357691	95.7497	105.684
\$ 14 Phenol-d5	99	5.445	5.450	(0.936)	449675	97.2527	107.343
\$ 103 2,4,6-Tribromophenol	330	9.444	9.449	(0.943)	99078	94.0269	103.782
\$ 163 1,2-Dichlorobenzene-d4	152	5.961	5.965	(1.025)	140818	54.7631	60.4449
\$ 162 2-Chlorophenol-d4	132	5.606	5.606	(0.964)	390371	96.4865	106.497
4 N-Nitrosodimethylamine	74						

Compound Not Detected.



Compounds	QUANT SIG	RT	EXP	RT	REL	RT	RESPONSE	CONCENTRATIONS	
								ON-COLUMN	FINAL
	MASS							(ug/ml)	( ug/L)
=====	----	--	-----	-----	-----	-----	-----	-----	-----
5 Pyridine	79		Compound	Not	Detected.				
7 2-Picoline	93		Compound	Not	Detected.				
8 N-Nitrosomethylethylamine	88		Compound	Not	Detected.				
9 Methyl methanesulfonate	80		Compound	Not	Detected.				
11 N-Nitrosodiethylamine	102		Compound	Not	Detected.				
13 Ethyl methanesulfonate	79		Compound	Not	Detected.				
15 Phenol	94		Compound	Not	Detected.				
16 Aniline	93		Compound	Not	Detected.				
19 Pentachloroethane	117		Compound	Not	Detected.				
18 Bis(2-chloroethyl) ether	93		Compound	Not	Detected.				
20 2-Chlorophenol	128		Compound	Not	Detected.				
21 1,3-Dichlorobenzene	146		Compound	Not	Detected.				
23 1,4-Dichlorobenzene	146		Compound	Not	Detected.				
25 1,2-Dichlorobenzene	146		Compound	Not	Detected.				
24 Benzyl alcohol	108		Compound	Not	Detected.				
26 2-Methylphenol	108		Compound	Not	Detected.				
28 2,2'-oxybis(1-chloropropane)	45		Compound	Not	Detected.				
29 4-Methylphenol	108		Compound	Not	Detected.				
31 N-Nitrosopyrrolidine	100		Compound	Not	Detected.				
32 Acetophenone	105		Compound	Not	Detected.				
34 N-Nitrosomorpholine	116		Compound	Not	Detected.				
35 o-Toluidine	106		Compound	Not	Detected.				
30 N-nitrosodi-n-propylamine	70		Compound	Not	Detected.				
33 Hexachloroethane	117		Compound	Not	Detected.				
37 Nitrobenzene	77		Compound	Not	Detected.				
39 N-Nitrosopiperidine	114		Compound	Not	Detected.				
40 Isophorone	82		Compound	Not	Detected.				
41 2-Nitrophenol	139		Compound	Not	Detected.				
44 O,O,O-Triethyl phosphorothio	198		Compound	Not	Detected.				
42 2,4-Dimethylphenol	107		Compound	Not	Detected.				
43 Bis(2-chloroethoxy)methane	93		Compound	Not	Detected.				
45 Benzoic acid	122		Compound	Not	Detected.				
48 a,a-Dimethylphenethylamine	58		Compound	Not	Detected.				
46 2,4-Dichlorophenol	162		Compound	Not	Detected.				
47 1,2,4-Trichlorobenzene	180		Compound	Not	Detected.				
53 2,6-Dichlorophenol	162		Compound	Not	Detected.				
54 Hexachloropropene	213		Compound	Not	Detected.				
50 Naphthalene	128		Compound	Not	Detected.				
51 4-Chloroaniline	127		Compound	Not	Detected.				
52 Hexachlorobutadiene	225		Compound	Not	Detected.				
57 N-Nitrosodi-n-butylamine	84		Compound	Not	Detected.				
58 p-Phenylenediamine	108		Compound	Not	Detected.				
61 Safrole	162		Compound	Not	Detected.				
59 4-Chloro-3-methylphenol	107		Compound	Not	Detected.				
62 2-Methylnaphthalene	142		Compound	Not	Detected.				
64 1-Methylnaphthalene	142		Compound	Not	Detected.				
65 1,2,4,5-Tetrachlorobenzene	216		Compound	Not	Detected.				

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/ml)	FINAL ( ug/L)
=====	=====	==	=====	=====	=====	=====	=====
63 Hexachlorocyclopentadiene	237		Compound	Not	Detected.		
66 Isosafrole (#1)	162		Compound	Not	Detected.		
72 Isosafrole (#2)	104		Compound	Not	Detected.		
73 1-Chloronaphthalene	162		Compound	Not	Detected.		
71 2-Chloronaphthalene	162		Compound	Not	Detected.		
67 2,4,6-Trichlorophenol	196		Compound	Not	Detected.		
68 2,4,5-Trichlorophenol	196		Compound	Not	Detected.		
75 1,4-Naphthoquinone	158		Compound	Not	Detected.		
74 2-Nitroaniline	65		Compound	Not	Detected.		
78 1,4-Dinitrobenzene	168		Compound	Not	Detected.		
80 1,3-Dinitrobenzene	168		Compound	Not	Detected.		
76 Dimethyl phthalate	163		Compound	Not	Detected.		
79 2,6-Dinitrotoluene	165		Compound	Not	Detected.		
81 Acenaphthylene	152		Compound	Not	Detected.		
82 3-Nitroaniline	138		Compound	Not	Detected.		
84 Acenaphthene	153		Compound	Not	Detected.		
89 Pentachlorobenzene	250		Compound	Not	Detected.		
85 2,4-Dinitrophenol	184		Compound	Not	Detected.		
86 4-Nitrophenol	109		Compound	Not	Detected.		
87 2,4-Dinitrotoluene	165		Compound	Not	Detected.		
88 Dibenzofuran	168		Compound	Not	Detected.		
90 1-Naphthylamine	143		Compound	Not	Detected.		
91 2,3,4,6-Tetrachlorophenol	232		Compound	Not	Detected.		
92 2-Naphthylamine	143		Compound	Not	Detected.		
98 Thionazin	97		Compound	Not	Detected.		
93 Diethyl phthalate	149		Compound	Not	Detected.		
100 5-Nitro-o-toluidine	152		Compound	Not	Detected.		
96 Fluorene	166		Compound	Not	Detected.		
95 4-Chlorophenyl phenyl ether	204		Compound	Not	Detected.		
97 4-Nitroaniline	138		Compound	Not	Detected.		
99 4,6-Dinitro-2-methylphenol	198		Compound	Not	Detected.		
101 N-nitrosodiphenylamine	169		Compound	Not	Detected.		
182 Diphenylamine	169		Compound	Not	Detected.		
102 Azobenzene	77		Compound	Not	Detected.		
104 Sulfotepp	97		Compound	Not	Detected.		
105 1,3,5-Trinitrobenzene	213		Compound	Not	Detected.		
107 Phorate	121		Compound	Not	Detected.		
109 Phenacetin	108		Compound	Not	Detected.		
106 Diallate (#1)	86		Compound	Not	Detected.		
111 Diallate (#2)	86		Compound	Not	Detected.		
108 4-Bromophenyl phenyl ether	248		Compound	Not	Detected.		
110 Hexachlorobenzene	284		Compound	Not	Detected.		
112 Dimethoate	87		Compound	Not	Detected.		
114 4-Aminobiphenyl	169		Compound	Not	Detected.		
115 Pentachloronitrobenzene	237		Compound	Not	Detected.		
116 Pronamide	173		Compound	Not	Detected.		
113 Pentachlorophenol	266		Compound	Not	Detected.		

Compounds	QUANT SIG	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS	
						ON-COLUMN (ug/ml)	FINAL ( ug/L)
=====	=====	==	=====	=====	=====	=====	=====
120 2-secbutyl-4,6-dinitropheno	211	Compound	Not	Detected.			
121 Disulfoton	88	Compound	Not	Detected.			
118 Phenanthrene	178	Compound	Not	Detected.			
122 Anthracene	178	Compound	Not	Detected.			
123 Carbazole	167	Compound	Not	Detected.			
124 Methyl parathion	109	Compound	Not	Detected.			
125 Di-n-butyl phthalate	149	Compound	Not	Detected.			
126 Parathion	109	Compound	Not	Detected.			
127 4-Nitroquinoline-1-oxide	190	Compound	Not	Detected.			
128 Methapyrilene	97	Compound	Not	Detected.			
129 Isodrin	193	Compound	Not	Detected.			
130 Fluoranthene	202	Compound	Not	Detected.			
131 Benzidine	184	Compound	Not	Detected.			
132 Pyrene	202	Compound	Not	Detected.			
134 Aramite (#1)	185	Compound	Not	Detected.			
135 Aramite (#2)	185	Compound	Not	Detected.			
136 p-Dimethylaminoazobenzene	120	Compound	Not	Detected.			
138 3,3'-Dimethylbenzidine	212	Compound	Not	Detected.			
137 Butyl benzyl phthalate	149	Compound	Not	Detected.			
139 2-Acetylaminofluorene	181	Compound	Not	Detected.			
140 3 3'-Dichlorobenzidine	252	Compound	Not	Detected.			
143 Bis(2-ethylhexyl) phthalate	149	Compound	Not	Detected.			
141 Benzo(a)anthracene	228	Compound	Not	Detected.			
144 Chrysene	228	Compound	Not	Detected.			
146 Di-n-octyl phthalate	149	Compound	Not	Detected.			
149 7,12-Dimethylbenz(a)anthrac	256	Compound	Not	Detected.			
147 Benzo(b)fluoranthene	252	Compound	Not	Detected.			
148 Benzo(k)fluoranthene	252	Compound	Not	Detected.			
150 Benzo(a)pyrene	252	Compound	Not	Detected.			
152 3-Methylcholanthrene	268	Compound	Not	Detected.			
153 Dibenz(a,j)acridine	279	Compound	Not	Detected.			
155 Indeno(1,2,3-cd)pyrene	276	Compound	Not	Detected.			
156 Dibenz(a,h)anthracene	278	Compound	Not	Detected.			
157 Benzo(g,h,i)perylene	276	Compound	Not	Detected.			
M 1 Total Isosafrole	162	Compound	Not	Detected.			
M 2 Total Diallate	86	Compound	Not	Detected.			
M 3 Total Aramite	185	Compound	Not	Detected.			
165 Chlorobenzilate	251	Compound	Not	Detected.			
168 Methyl Styrene	118	Compound	Not	Detected.			
27 1H-Indene	116	Compound	Not	Detected.			
199 1,4-Dioxane	88	2.998	2.999	(0.515)	11794	8.22650	9.08003(a)
175 Biphenyl	154	Compound	Not	Detected.			
183 Hexachlorophene	196	Compound	Not	Detected.			
204 Atrazine	200	Compound	Not	Detected.			
205 Caprolactam	55	Compound	Not	Detected.			
202 Alachlor	188	Compound	Not	Detected.			

QC Flag Legend

- a - Target compound detected but, quantitated amount  
Below Limit Of Quantitation(BLOQ).

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INTERNAL STANDARD COMPOUNDS  
AREA AND RT SUMMARY

Instrument ID: Y.i  
Lab File ID: y1757.d  
Lab Smp Id: GGJX61AC  
Analysis Type: SV  
Quant Type: ISTD  
Operator: todear  
Method File: /chem/Y.i/052804.b/8270C.m  
Misc Info: 4142151

Calibration Date: 28-MAY-2004  
Calibration Time: 06:38  
Client Smp ID: 01-MW-08  
Level: LOW  
Sample Type: WATER

Test Mode:  
Use Last Continuing Calibrator.

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
22 1,4-Dichlorobenze	123037	61518	246074	124309	1.03
49 Naphthalene-d8	502806	251403	1005612	504463	0.33
83 Acenaphthene-d10	302617	151308	605234	314774	4.02
117 Phenanthrene-d10	510447	255224	1020894	569718	11.61
142 Chrysene-d12	320588	160294	641176	417003	30.07
151 Perylene-d12	235620	117810	471240	325138	37.99

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
22 1,4-Dichlorobenze	5.82	5.32	6.32	5.82	0.01
49 Naphthalene-d8	7.04	6.54	7.54	7.04	0.01
83 Acenaphthene-d10	8.76	8.26	9.26	8.75	-0.06
117 Phenanthrene-d10	10.02	9.52	10.52	10.02	0.00
142 Chrysene-d12	12.17	11.67	12.67	12.18	0.14
151 Perylene-d12	13.58	13.08	14.08	13.61	0.20

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.

STL-Denver

RECOVERY REPORT

Client Name: Cabrera Services

Sample Matrix: LIQUID

Lab Smp Id: GGJX61AC

Level: LOW

Data Type: MS DATA

SpikeList File: 02H2O-DCS.spk

Sublist File: HSL+AP9.sub

Method File: /chem/Y.i/052804.b/8270C.m

Misc Info: 4142151

Client SDG: D4E190262

Fraction: SV

Client Smp ID: 01-MW-08

Operator: todear

SampleType: SAMPLE

Quant Type: ISTD

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
\$ 36 Nitrobenzene-d5	110.375	69.3212	62.81	53-107
\$ 70 2-Fluorobiphenyl	110.375	63.6544	57.67	31-105
\$ 133 Terphenyl-d14	110.375	72.3576	65.56	21-125
\$ 10 2-Fluorophenol	165.563	105.684	63.83	32-116
\$ 14 Phenol-d5	165.563	107.343	64.84	40-111
\$ 103 2,4,6-Tribromophen	165.563	103.782	62.68	42-122
\$ 163 1,2-Dichlorobenzen	110.375	60.4449	54.76	20-130
\$ 162 2-Chlorophenol-d4	165.563	106.497	64.32	20-130

STL-Denver

TENTATIVELY IDENTIFIED COMPOUNDS

Client Name: Cabrera Services	Client SDG: D4E190262
Lab Smp Id: GGJX61AC	Client Smp ID: 01-MW-08
Operator : todear	Sample Date: 18-MAY-2004
Sample Location: USDA National Disease Center	Sample Point: e Center
Sample Matrix: WATER	Date Received: 19-MAY-2004 00:00
Analysis Type: SV	Level: LOW

Number TICs found: 0

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
=====	=====	=====	=====	=====